Shenzhen CTA Testing Technology Co., Ltd.



Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No..... CTA24062102002 FCC ID.....:: 2A3DR-AGMPADT1

Compiled by

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Date of issue: Jun. 27, 2024

Testing Laboratory Name..... Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Address:

Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name..... **AGM MOBILE LIMITED**

FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEUNG Address:

CIRCUIT TUEN MUN NT HONG KONG, CHINA

Test specification:

FCC Part 15.247 Standard....:

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Test item description Smart tablet

AGM MOBILE Trade Mark:

CTATESTING Manufacturer: GUANGDONG AIJIEMO ELECTRONIC INDUSTRY CO., LTD.

AGM PAD T1 Model/Type reference:

N/A Listed Models:

Modulation GFSK, Π/4DQPSK, 8DPSK

From 2402MHz to 2480MHz Frequency

DC 3.8V From battery and DC 5.0V From external circuit Rating:

Result:

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TEST REPORT

Equipment under

Test

Smart tablet

Model /Type

AGM PAD T1

Listed Models

N/A

Applicant

AGM MOBILE LIMITED

Address

FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEUNG

CIRCUIT TUEN MUN NT HONG KONG, CHINA

Manufacturer

GUANGDONG AIJIEMO ELECTRONIC INDUSTRY CO., LTD.

Address

AGM TECHNOLOGY PARK, NO.187 LIANFA ROAD, TONGQIAO

| TESTING | , | CH DISTRICT, HUIZHOU CITY, |
|---------|-----------|----------------------------|
| CTATE | ESTING | |
| Tes | t Result: | PASS STING |

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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| | | CIA |
| | | CTA TESTING |
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| | | |
| | | |
| _ | | |

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TEST STANDARDS 1

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

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SUMMARY

2.1 General Remarks

| Date of receipt of test sample | 15 | Jun. 20, 2024 |
|--------------------------------|----|---------------|
| 1 | | |
| Testing commenced on | : | Jun. 20, 2024 |
| | | |
| Testing concluded on | : | Jun. 27, 2024 |

Product Description

| Product Name: | Smart tablet |
|-----------------------|-------------------------------------------------------------------------------------------|
| Model/Type reference: | AGM_PAD_T1 |
| Power supply: | DC 3.8V From battery and DC 5.0V From external circuit |
| Adapter information: | Model: PS10UA050K2000UU Input: AC 100-240V 50/60Hz 0.35A Output: DC 5.0V 2.0A 10.0W |
| Hardware version: | V1.0 |
| Software version: | V1.0 |
| Testing sample ID: | CTA240621020-1# (Engineer sample) CTA240621020-2# (Normal sample) |
| Bluetooth : | |
| Supported Type: | Bluetooth BR/EDR |
| Modulation: | GFSK, π/4DQPSK, 8DPSK |
| Operation frequency: | 2402MHz~2480MHz |
| Channel number: | 79 |
| Channel separation: | 1MHz |
| Antenna type: | PIFA antenna |
| Antenna gain: | 1.70 dBi |
| CVI | er Test a utilised |

2.3 Equipment Under Test

| 2.3 Equipment Under Test Power supply system utilised | t | | CTATES. | | CTATESTING |
|-------------------------------------------------------|---|---|------------------------------|-----|-------------|
| Power supply voltage | : | 0 | 230V / 50 Hz | 0 | 120V / 60Hz |
| | | 0 | 12V DC | 0 | 24V DC |
| | | • | Other (specified in blank be | low | |

DC 3.8V From battery and DC 5.0V From external circuit

2.4 Short description of the Equipment under Test (EUT) CTA TESTING

This is a Smart tablet.

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

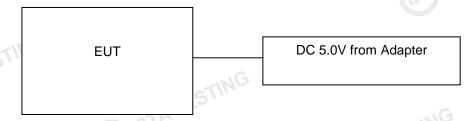
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2.5 EUT operation mode

The Applicant provides communication tools software (Engineer mode) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 79 channels provided to the EUT and Channel 00/39/78 were selected to test.

| provided to the EUT and Channel 00/39/78 were selections. | ected to test. | |
|-----------------------------------------------------------|-----------------|-------------------|
| | TESTING | |
| Operation Frequency: | | |
| Channel | Frequency (MHz) | |
| 00 | 2402 | |
| 01 | 2403 | |
| TING | : | HOLE THE PARTY OF |
| 38 | 2440 | |
| 39 | 2441 | |
| 40 | 2442 | |
| | ESTING | |
| 77 | 2479 | |
| 78 | 2480 | |

Block Diagram of Test Setup



Related Submittal(s) / Grant (s)

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

2.8 **Modifications**

No modifications were implemented to meet testing criteria.

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TEST ENVIRONMENT

Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory
Accreditation to perform electromagnetic emission measurement

CAB identifier: CN0127 ISED#: 27890

Shenzhen CTA Testing Technology Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

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

Radiated Emission:

| tadiated Ellinosionii | |
|-----------------------|--------------|
| Temperature: | 24 ° C |
| | |
| Humidity: | 45 % |
| | |
| Atmospheric pressure: | 950-1050mbar |

AC Power Conducted Emission:

| Temperature: | 25 ° C | |
|-----------------------|--------------|--|
| TES | 11. | |
| Humidity: | 46 % | |
| | -ESTI | |
| Atmospheric pressure: | 950-1050mbar | |
| Conducted testing: | G.V. | |
| | | |
| Temperature: | 25 ° C | |

Conducted testina:

| enaactea teetiing. | |
|-----------------------|--------------|
| Temperature: | 25 ° C |
| Humidity: | 44 % |
| - Tommany | , |
| Atmospheric pressure: | 950-1050mbar |
| CTATESTI | STIN |
| | |

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Summary of measurement results

| Test Specification clause | Test case | Test Mode | Test Channel | Reco In Re | orded eport | Test result |
|---------------------------------|----------------------------------------------------------|---------------------------|---------------------------------------------------------------|---------------------------|---------------------------------------------------------------|-------------|
| §15.247(a)(1) | Carrier Frequency separation | GFSK П/4DQPSK 8DPSK | ☑ Lowest☑ Middle☑ Highest | GFSK П/4DQPSK 8DPSK | | Compliant |
| §15.247(a)(1) | Number of Hopping channels | GFSK П/4DQPSK 8DPSK | ⊠ Full | GFSK | ⊠ Full | Compliant |
| §15.247(a)(1) | Time of Occupancy (dwell time) | GFSK Π/4DQPSK 8DPSK | ☑ Lowest☑ Middle☑ Highest | GFSK П/4DQPSK 8DPSK | | Compliant |
| §15.247(a)(1) | Spectrumbandwidth of aFHSS system20dB bandwidth | GFSK П/4DQPSK 8DPSK | ☑ Lowest☑ Middle☑ Highest | GFSK П/4DQPSK 8DPSK | ☑ Lowest☑ Middle☑ Highest | Compliant |
| §15.247(b)(1) | Maximum output peak power | GFSK П/4DQPSK 8DPSK | ☑ Lowest☑ Middle☑ Highest | GFSK П/4DQPSK 8DPSK | ☑ Lowest☑ Middle☑ Highest | Compliant |
| §15.247(d) | Band edgecompliance conducted | GFSK П/4DQPSK 8DPSK | ✓ Lowest✓ Highest | GFSK П/4DQPSK 8DPSK | ✓ Lowest✓ Highest | Compliant |
| §15.205 | Band edgecompliance radiated | GFSK П/4DQPSK 8DPSK | | GFSK П/4DQPSK 8DPSK | Lowest | Compliant |
| §15.247(d) | TX spuriousemissions conducted | GFSK П/4DQPSK 8DPSK | ☑ Lowest☑ Middle☑ Highest | GFSK П/4DQPSK 8DPSK | ✓ Lowest✓ Middle✓ Highest | Compliant |
| §15.247(d) | TX spuriousemissions radiated | GFSK П/4DQPSK 8DPSK | ☑ Lowest☑ Middle☑ Highest | GFSK | ☑ Lowest☑ Middle☑ Highest | Compliant |
| §15.209(a) | TX spurious Emissions radiated Below 1GHz | GFSK П/4DQPSK 8DPSK | ☑ Lowest☑ Middle☑ Highest | GFSK | ⊠ Middle | Compliant |
| §15.107(a) §15.207 | Conducted Emissions 9KHz-30 MHz | GFSK П/4DQPSK 8DPSK | ☑ Lowest☑ Middle☑ Highest | GFSK | | Compliant |

Remark:

- The measurement uncertainty is not included in the test result. 1.
- We tested all test mode and recorded worst case in report

3.5 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 TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA 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 Shenzhen CTA Testing Technology Co., Ltd.:

| Test | Range | Measurement Uncertainty | Notes |
|------------------------|-------------|----------------------------|-------|
| Radiated Emission | 9KHz~30MHz | 3.02 dB | (1) |
| Radiated Emission | 30~1000MHz | 4.06 dB | (1) |
| Radiated Emission | 1~18GHz | 5.14 dB | (1) |
| Radiated Emission | 18-40GHz | 5.38 dB | (1) |
| Conducted Disturbance | 0.15~30MHz | 2.14 dB | (1) |
| Output Peak power | 30MHz~18GHz | 0.55 dB | (1) |
| Power spectral density | / | 0.57 dB | (1) |

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| Spectrum bandwidth | / | 1.1% | (1) |
|------------------------------------------|------------|---------|-----|
| Radiated spurious emission (30MHz-1GHz) | 30~1000MHz | 4.10 dB | (1) |
| Radiated spurious emission (1GHz-18GHz) | 1~18GHz | 4.32 dB | (1) |
| Radiated spurious emission (18GHz-40GHz) | 18-40GHz | 5.54 dB | (1) |

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

3.6 Equipments Used during the Test

| _[| LING | | | Farrinment | Calibration | Calibration |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------|-------------|---------------|---------------------|----------------------|
| | Test Equipment | Manufacturer | Model No. | Equipment No. | Calibration Date | Calibration Due Date |
| | LISN | R&S | ENV216 | CTA-308 | 2023/08/02 | 2024/08/0 |
| | LISN | R&S | ENV216 | CTA-314 | 2023/08/02 | 2024/08/0 |
| | EMI Test Receiver | R&S | ESPI | CTA-307 | 2023/08/02 | 2024/08/0 |
| | EMI Test Receiver | R&S | ESCI | CTA-306 | 2023/08/02 | 2024/08/0 |
| | Spectrum Analyzer | Agilent | N9020A | CTA-301 | 2023/08/02 | 2024/08/01 |
| ŀ | Spectrum Analyzer | R&S | FSP | CTA-337 | 2023/08/02 | 2024/08/0 |
| | Vector Signal generator | Agilent | N5182A | CTA-305 | 2023/08/02 | 2024/08/01 |
| | Analog Signal Generator | R&S | SML03 | CTA-304 | 2023/08/02 | 2024/08/0 |
| | WIDEBAND RADIO COMMUNICATION TESTER | CMW500 | R&S | CTA-302 | 2023/08/02 | 2024/08/0 |
| | Temperature and humidity meter | Chigo | ZG-7020 | CTA-326 | 2023/08/02 | 2024/08/0 |
| 1.0 | Ultra-Broadband Antenna | Schwarzbeck | VULB9163 | CTA-310 | 2023/10/17 | 2024/10/10 |
| Ī | Horn Antenna | Schwarzbeck | BBHA 9120D | CTA-309 | 2023/10/13 | 2024/10/12 |
| Ī | Loop Antenna | Zhinan | ZN30900C | CTA-311 | 2023/10/17 | 2024/10/1 |
| | Horn Antenna | Beijing Hangwei Dayang | OBH100400 | CTA-336 | 2021/08/07 | 2024/08/0 |
| | Amplifier | Schwarzbeck | BBV 9745 | CTA-312 | 2023/08/02 | 2024/08/0 |
| | Amplifier | Taiwan chengyi | EMC051845B | CTA-313 | 2023/08/02 | 2024/08/0 |
| | Directional coupler | NARDA | 4226-10 | CTA-303 | 2023/08/02 | 2024/08/0 |
| | High-Pass Filter | XingBo | XBLBQ-GTA18 | CTA-402 | 2023/08/02 | 2024/08/0 |
| | High-Pass Filter | XingBo | XBLBQ-GTA27 | CTA-403 | 2023/08/02 | 2024/08/0 |
| The state of the s | Automated filter bank | Tonscend | JS0806-F | CTA-404 | 2023/08/02 | 2024/08/0 |
| | Power Sensor | Agilent | U2021XA | CTA-405 | 2023/08/02 | 2024/08/0 |
| - | Amplifier | Schwarzbeck | BBV9719 | CTA-406 | 2023/08/02 | 2024/08/0 |

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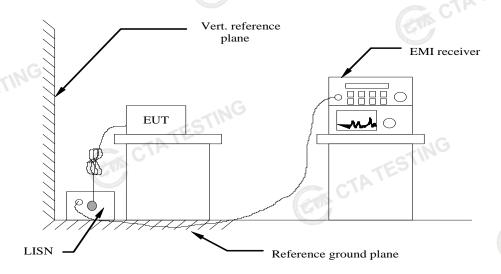
| | Test Equipment | Manufacturer | Model No. | Version number | Calibration Date | Calibration Due Date |
|-------|-------------------|--------------|-------------|-------------------|---------------------|-------------------------|
| | EMI Test Software | Tonscend | TS®JS32-RE | 5.0.0.2 | N/A | N/A |
| | EMI Test Software | Tonscend | TS®JS32-CE | 5.0.0.1 | N/A | N/A |
| | RF Test Software | Tonscend | TS®JS1120-3 | 3.1.65 | N/A | N/A |
| | RF Test Software | Tonscend | TS®JS1120 | 3.1.46 | N/A | N/A |
| | TING | | | | | ATTA- |
| CTATE | 511 | CTATESTING | | | | |
| , | | CTA | | | | |

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4 TEST CONDITIONS AND RESULTS

4.1 AC Power Conducted Emission

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 EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/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.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

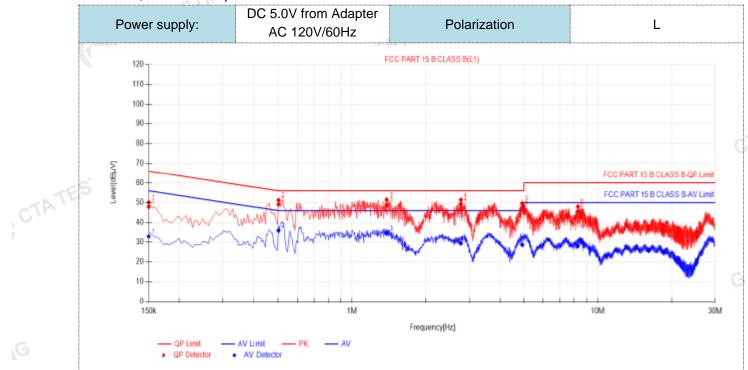
| Fraguenov rango (MHz) | Limit (dBuV) | | | | | | | |
|--------------------------------------------------|--------------|-----------|--|--|--|--|--|--|
| Frequency range (MHz) | Quasi-peak | Average | | | | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | | | | |
| 0.5-5 | 56 | 46 | | | | | | |
| 5-30 | 60 | 50 | | | | | | |
| * Decreases with the logarithm of the frequency. | | | | | | | | |

TEST RESULTS

Remark:

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

2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

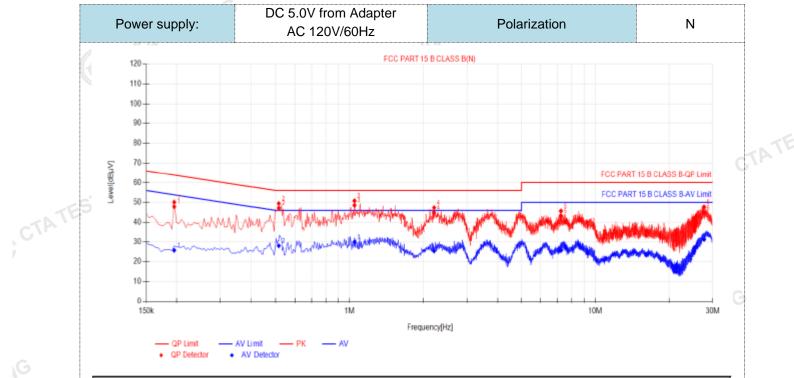


| Final | Final Data List | | | | | | | | | | | | |
|-------|-----------------|----------------|-------------------------|-----------------------|-----------------------|----------------------|-------------------------|-----------------------|-----------------------|----------------------|---------|--|--|
| NO. | Freq. [MHz] | Factor [dB] | QP Reading[dB µV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict | | |
| 1 | 0.15 | 9.87 | 38.08 | 47.95 | 66.00 | 18.05 | 23.08 | 32.95 | 56.00 | 23.05 | PASS | | |
| 2 | 0.501 | 10.02 | 39.09 | 49.11 | 56.00 | 6.89 | 25.96 | 35.98 | 46.00 | 10.02 | PASS | | |
| 3 | 1.383 | 9.90 | 39.10 | 49.00 | 56.00 | 7.00 | 24.75 | 34.65 | 46.00 | 11.35 | PASS | | |
| 4 | 2.769 | 10.06 | 39.20 | 49.26 | 56.00 | 6.74 | 19.28 | 29.34 | 46.00 | 16.66 | PASS | | |
| 5 | 4.9245 | 9.98 | 37.59 | 47.57 | 56.00 | 8.43 | 18.59 | 28.57 | 46.00 | 17.43 | PASS | | |
| 6 | 8.2905 | 10.28 | 35.47 | 45.75 | 60.00 | 14.25 | 17.74 | 28.02 | 50.00 | 21.98 | PASS | | |

Note:1).QP Value ($dB\mu V$)= QP Reading ($dB\mu V$)+ Factor (dB)

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dB μ V) QP Value (dB μ V)
 - 4). $AVMargin(dB) = AV Limit (dB\mu V) AV Value (dB\mu V)$ GM CTATESTING

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| Fina | l Data Lis | st | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-------------------------|-----------------------|-----------------------|----------------------|-------------------------|-----------------------|-----------------------|----------------------|---------|-----------------|
| NO. | Freq. [MHz] | Factor [dB] | QP Reading[dB µV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | ΑV Reading [dBμV] | AV Value [dBµV] | AV Limit [dΒμV] | AV Margin [dB] | Verdict | |
| 1 | 0.195 | 9.97 | 37.88 | 47.83 | 63.82 | 15.99 | 15.74 | 25.71 | 53.82 | 28.11 | PASS | |
| 2 | 0.5145 | 10.03 | 37.17 | 47.20 | 56.00 | 8.80 | 17.95 | 27.98 | 46.00 | 18.02 | PASS | |
| 3 | 1.0455 | 10.13 | 38.41 | 48.54 | 56.00 | 7.48 | 19.78 | 29.91 | 46.00 | 16.09 | PASS | |
| 4 | 2.2065 | 10.16 | 34.65 | 44.81 | 56.00 | 11.19 | 15.15 | 25.31 | 46.00 | 20.69 | PASS | |
| 5 | 7.2375 | 10.42 | 32.80 | 43.22 | 60.00 | 16.78 | 15.25 | 25.67 | 50.00 | 24.33 | PASS | |
| 6 | 27.6675 | 10.78 | 34.14 | 44.92 | 60.00 | 15.08 | 20.41 | 31.19 | 50.00 | 18.81 | PASS | |
| Note:1).QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB) 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB) | | | | | | | | | | | | G ^{KA} |
| 3). QPI | Margin(dB) |) = QP Li | imit (dBµ' | V) - QP ˈ | Value (d | BμV) | | | | | | |

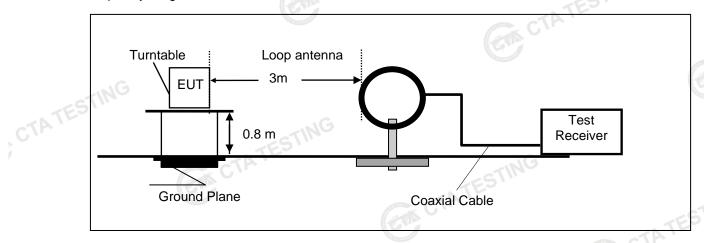
- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). $QPMargin(dB) = QP Limit (dB\mu V) QP Value (dB\mu V)$
 - 4). $AVMargin(dB) = AV Limit (dB\mu V) AV Value (dB\mu V)$ CTATES

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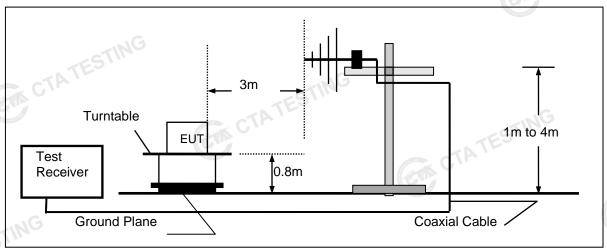
4.2 **Radiated Emission**

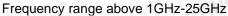
TEST CONFIGURATION

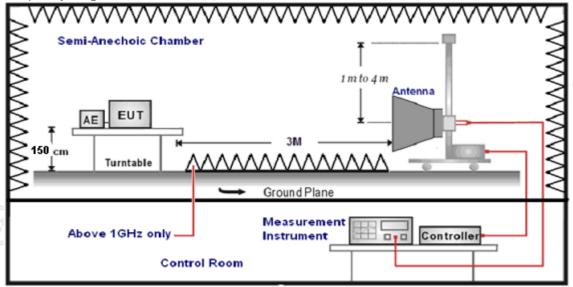
Frequency range 9 KHz – 30MHz



Frequency range 30MHz - 1000MHz







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TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz -1GHz; the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° 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.
- Repeat above procedures until all frequency measurements have been completed.
- Radiated emission test frequency band from 9KHz to 25GHz. 5.
- The distance between test antenna and EUT as following table states:

| Test Frequency range | Test Antenna Type | Test Distance |
|----------------------|----------------------------|---------------|
| 9KHz-30MHz | Active Loop Antenna | 3 |
| 30MHz-1GHz | Ultra-Broadband Antenna | 3 |
| 1GHz-18GHz | Double Ridged Horn Antenna | 3 |
| 18GHz-25GHz | Horn Anternna | 1 |

Setting test receiver/spectrum as following table states:

| Test Frequency range | Test Receiver/Spectrum Setting | Detector |
|----------------------|----------------------------------------|----------|
| 9KHz-150KHz | RBW=200Hz/VBW=3KHz,Sweep time=Auto | QP |
| 150KHz-30MHz | RBW=9KHz/VBW=100KHz,Sweep time=Auto | QP |
| 30MHz-1GHz | RBW=120KHz/VBW=1000KHz,Sweep time=Auto | QP |
| | Peak Value: RBW=1MHz/VBW=3MHz, | |
| 1GHz-40GHz | Sweep time=Auto | Peak |
| IGHZ-40GHZ | Average Value: RBW=1MHz/VBW=10Hz, | reak |
| | Sweep time=Auto | |

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

| sample calculation is as follows: | STING | | | | | |
|-----------------------------------|--------------------------------------------|--|--|--|--|--|
| FS = RA + AF + CL - AG | CTATES | | | | | |
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) | | | | | |
| RA = Reading Amplitude | AG = Amplifier Gain | | | | | |
| AF = Antenna Factor | Con | | | | | |

Transd=AF +CL-AG

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

| Frequency (MHz) | Distance (Meters) | Radiated (dBμV/m) | Radiated (µV/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 |

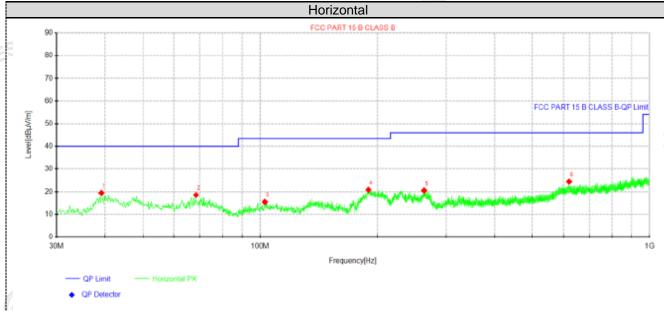
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TEST RESULTS

Remark:

- This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X
- We measured Radiated Emission at GFSK, π/4 DQPSK and 8DPSK mode from 9 KHz to 25GHz and recorded worst case at GFSK DH5 mode.
- For below 1GHz testing recorded worst at GFSK DH5 middle channel(powered by external circuit). 3.
- Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

For 30MHz-1GHz

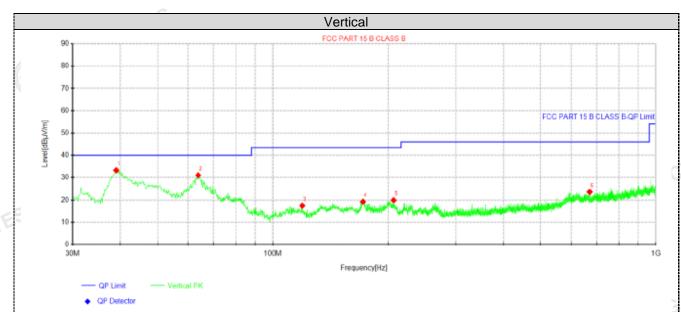


| | Susp | ected Data | List | | | | | | | |
|-----|-------|----------------|-------------------|-------------------|------------------|-------------------|----------------|----------------|--------------|------------|
| | NO. | Freq. [MHz] | Reading [dBµV] | Level [dBµV/m] | Factor [dB/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| | 1 | 39.0938 | 32.00 | 19.45 | -12.55 | 40.00 | 20.55 | 100 | 310 | Horizontal |
| | 2 | 68.4362 | 33.21 | 18.53 | -14.68 | 40.00 | 21.47 | 100 | 3 | Horizontal |
| | 3 | 102.871 | 28.88 | 15.49 | -13.39 | 43.50 | 28.01 | 100 | 356 | Horizontal |
| | 4 | 189.686 | 34.91 | 20.85 | -14.06 | 43.50 | 22.65 | 100 | 286 | Horizontal |
| TE | 5 | 263.77 | 32.89 | 20.55 | -12.34 | 46.00 | 25.45 | 100 | 253 | Horizontal |
| CTA | 6 | 621.578 | 29.71 | 24.44 | -5.27 | 46.00 | 21.56 | 100 | 253 | Horizontal |
| | N1.1. | \ | | CI LID | | (ID () | | | | |

Note:1).Level ($dB\mu V/m$)= Reading ($dB\mu V$)+ Factor (dB/m)

- 2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) Pre Amplifier gain (dB)
- 3). Margin(dB) = Limit (dB μ V/m) Level (dB μ V/m)

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| Susp | ected Data | List | | | | | | | |
|------|------------|---------|----------|--------|----------|--------|--------|-------|----------|
| NO | Freq. | Reading | Level | Factor | Limit | Margin | Height | Angle | Dolovitu |
| NO. | [MHz] | [dBµV] | [dBµV/m] | [dB/m] | [dBµV/m] | [dB] | [cm] | [°] | Polarity |
| 1 | 38.9725 | 45.90 | 33.30 | -12.60 | 40.00 | 6.70 | 100 | 235 | Vertical |
| 2 | 63.8288 | 45.10 | 31.06 | -14.04 | 40.00 | 8.94 | 100 | 132 | Vertical |
| 3 | 119.361 | 31.61 | 17.38 | -14.23 | 43.50 | 26.12 | 100 | 178 | Vertical |
| 4 | 171.741 | 34.66 | 19.22 | -15.44 | 43.50 | 24.28 | 100 | 294 | Vertical |
| 5 | 206.782 | 33.17 | 19.92 | -13.25 | 43.50 | 23.58 | 100 | 94 | Vertical |
| 6 | 671.897 | 28.89 | 23.60 | -5.29 | 46.00 | 22.40 | 100 | 154 | Vertical |

CTATE

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)

- 2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) Pre Amplifier gain (dB)
- 3). Margin(dB) = Limit (dB μ V/m) Level (dB μ V/m)

For 1GHz to 25GHz

Note: GFSK , $\pi/4$ DQPSK and 8DPSK all have been tested, only worse case GFSK is reported.

GFSK (above 1GHz)

| Freque | Frequency(MHz): | | | .02 | Pola | arity: | HORIZONTAL | | | |
|--------------------|-------------------------------|----|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|--|
| Frequency (MHz) | Emission Level (dBuV/m) | | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) | |
| 4804.00 | 62.46 | PK | 74 | 11.54 | 66.73 | 32.33 | 5.12 | 41.72 | -4.27 | |
| 4804.00 | 45.94 | AV | 54 | 8.06 | 50.21 | 32.33 | 5.12 | 41.72 | -4.27 | |
| 7206.00 | 54.08 PK | | 74 | 19.92 | 54.60 | 36.6 | 6.49 | 43.61 | -0.52 | |
| 7206.00 | 43.06 | AV | 54 | 10.94 | 43.58 | 36.6 | 6.49 | 43.61 | -0.52 | |

| _ | - 11.71 | | | | | | | | | 10, 1 //// |
|---|--------------------|-------|----------------------|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|
| | Frequency(MHz): | | 24 | 02 | Polarity: VE | | | VERTICAL | ERTICAL | |
| | Frequency (MHz) | Le | ssion vel V/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) |
| ſ | 4804.00 | 60.46 | PK | 74 | 13.54 | 64.73 | 32.33 | 5.12 | 41.72 | -4.27 |
| | 4804.00 | 43.38 | AV | 54 | 10.62 | 47.65 | 32.33 | 5.12 | 41.72 | -4.27 |
| | 7206.00 | 52.89 | PK | 74 | 21.11 | 53.41 | 36.6 | 6.49 | 43.61 | -0.52 |
| Ī | 7206.00 | 41.57 | AV | 54 | 12.43 | 42.09 | 36.6 | 6.49 | 43.61 | -0.52 |

| Frequency(MHz): | | | 2441 | | Polarity: | | HORIZONTAL | | |
|--------------------|---------------------|-----|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|
| Frequency (MHz) | Emis Lev (dBu | /el | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) |
| 4882.00 | 60.58 | PK | 74 | 13.42 | 64.46 | 32.6 | 5.34 | 41.82 | -3.88 |
| 4882.00 | 45.42 | AV | 54 | 8.58 | 49.30 | 32.6 | 5.34 | 41.82 | -3.88 |
| 7323.00 | 53.70 | PK | 74 | 20.30 | 53.81 | 36.8 | 6.81 | 43.72 | -0.11 |
| 7323.00 | 42.72 | AV | 54 | 11.28 | 42.83 | 36.8 | 6.81 | 343.72 | -0.11 |
| | | | | | | | GTIN | | |

| | Frequency(MHz): | | 24 | 41 | Polarity: | | VERTICAL | | | | |
|---|--------------------|-------|----------------------|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|--|
| | Frequency (MHz) | Le | ssion vel V/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) | |
| | 4882.00 | 59.30 | PK | 74 | 14.70 | 63.18 | 32.6 | 5.34 | 41.82 | -3.88 | |
| | 4882.00 | 42.66 | AV | 54 | 11.34 | 46.54 | 32.6 | 5.34 | 41.82 | -3.88 | |
| 7 | 7323.00 | 51.77 | PK | 74 | 22.23 | 51.88 | 36.8 | 6.81 | 43.72 | -0.11 | |
| | 7323.00 | 41.18 | AV | 54 | 12.82 | 41.29 | 36.8 | 6.81 | 43.72 | -0.11 | |

| Frequency(MHz): | | | 2480 | | Pola | Polarity: | | HORIZONTAL | | |
|--------------------|---------------------|-----|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|--|
| Frequency (MHz) | Emis Lev (dBu | vel | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) | |
| 4960.00 | 60.71 | PK | 74 | 13.29 | 63.79 | 32.73 | 5.66 | 41.47 | -3.08 | |
| 4960.00 | 44.40 | AV | 54 | 9.60 | 47.48 | 32.73 | 5.66 | 41.47 | -3.08 | |
| 7440.00 | 52.78 | PK | 74 | 21.22 | 52.33 | 37.04 | 7.25 | 43.84 | 0.45 | |
| 7440.00 | 41.80 | PK | 54 | 12.20 | 41.35 | 37.04 | 7.25 | 43.84 | 0.45 | |

| | | 1G | | | | | | | |
|--------------------|-----------------|----------------------|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|
| Freque | Frequency(MHz): | | 24 | 80 | Polarity: | | VERTICAL | | |
| Frequency (MHz) | Le | ssion vel V/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) |
| 4960.00 | 58.71 | PK | 74 | 15.29 | 61.79 | 32.73 | 5.66 | 41.47 | -3.08 |
| 4960.00 | 42.30 | AV | 54 | 11.70 | 45.38 | 32.73 | 5.66 | 41.47 | -3.08 |
| 7440.00 | 50.93 | PK | 74 | 23.07 | 50.48 | 37.04 | 7.25 | 43.84 | 0.45 |
| 7440.00 | 40.36 | PK | 54 | 13.64 | 39.91 | 37.04 | 7.25 | 43.84 | 0.45 |

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REMARKS:

- 1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
- 3. Margin value = Limit value- Emission level.
- 4. -- Mean the PK detector measured value is below average limit.
- 5. The other emission levels were very low against the limit.

Results of Band Edges Test (Radiated)

Note: GFSK, π/4 DQPSK and 8DPSK all have been tested, only worse case GFSK is reported.

GFSK

| Freque | Frequency(MHz): | | 24 | 02 | Polarity: HORIZONTAL | | ۱L | | | |
|--------------------------------------------|----------------------------------------------------------|--------------------------------------|-------------------------|----------------------------|-----------------------------------------------------------|----------------------------------------------|------------------------------------|--------------------------------------------------|------------------------------------------------|--|
| Frequency Emission Level (dBuV/m) | | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) | | |
| 2390.00 | 62.01 | PK | 74 | 11.99 | 72.43 | 27.42 | 4.31 | 42.15 | -10.42 | |
| 2390.00 | 42.92 | AV | 54 | 11.08 | 53.34 | 27.42 | 4.31 | 42.15 | -10.42 | |
| Freque | ncy(MHz) | : | 24 | 02 | Pola | rity: | | VERTICAL | | |
| Frequency (MHz) | Emis Le (dBu | /el | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) | |
| 2390.00 | 60.08 | PK | 74 | 13.92 | 70.50 | 27.42 | 4.31 | 42.15 | -10.42 | |
| 2390.00 | 41.27 | AV | 54 | 12.73 | 51.69 | 27.42 | 4.31 | 42.15 | -10.42 | |
| Freque | ncy(MHz) | : | 24 | 80 | Polarity: HORIZO | | IORIZONTA | ۱L | | |
| | ncy Emission | | | | | | 0 1 1 | _ | 0 " | |
| Frequency (MHz) | Le | /el | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) | |
| | Le | /el | | _ | Value | Factor | Factor | amplifier | Factor | |
| (MHz) | Le _' (dBu | vel V/m) | (dBuV/m) | (dB) | Value (dBuV) | Factor (dB/m) | Factor (dB) | amplifier (dB) | Factor (dB/m) | |
| (MHz) 2483.50 2483.50 | Le ^v (dBu 61.29 | vel V/m) PK AV | (dBuV/m) | (dB) 12.71 11.73 | Value (dBuV) 71.40 | Factor (dB/m) 27.7 27.7 | Factor (dB) 4.47 4.47 | amplifier (dB) 42.28 | Factor (dB/m) -10.11 -10.11 | |
| (MHz) 2483.50 2483.50 | Le ^o (dBu 61.29 42.27 | vel V/m) PK AV : sion | (dBuV/m) 74 54 | (dB) 12.71 11.73 | Value (dBuV) 71.40 52.38 | Factor (dB/m) 27.7 27.7 | Factor (dB) 4.47 4.47 | amplifier (dB) 42.28 42.28 | Factor (dB/m) -10.11 -10.11 | |
| (MHz) 2483.50 2483.50 Freque Frequency | Lev (dBu 61.29 42.27 ncy(MHz) Emis Lev | vel V/m) PK AV : sion | (dBuV/m) 74 54 24 Limit | (dB) 12.71 11.73 80 Margin | Value (dBuV) 71.40 52.38 Pola Raw Value | Factor (dB/m) 27.7 27.7 rity: Antenna Factor | Factor (dB) 4.47 4.47 Cable Factor | amplifier (dB) 42.28 42.28 VERTICAL Preamplifier | Factor (dB/m) -10.11 -10.11 Correction Factor | |

REMARKS:

- 1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
- 3. Margin value = Limit value- Emission level.
- CTA TESTING 4. -- Mean the PK detector measured value is below average limit.
- 5. The other emission levels were very low against the limit.

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Maximum Peak Output Power

Limit

The Maximum Peak Output Power Measurement is 125mW (20.97).

Test Procedure

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

Test Configuration



Test Results

| Type | Channel | Output power (dBm) | Limit (dBm) | Result |
|----------|---------|--------------------|-------------|--------|
| | 00 | 0.32 | , | TES |
| GFSK | 39 | 1.72 | 20.97 | Pass |
| | 78 | 2.04 | | |
| π/4DQPSK | 3 00 | 1.33 | | |
| | 39 | 2.67 | 20.97 | Pass |
| | 78 | 0.39 | | |
| | 00 | 1.69 | TING | |
| 8DPSK | 39 | 3.28 | 20.97 | Pass |
| | 78 | 2.83 | C/L | |

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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.

Test Configuration



Test Results

| EUT | | SPECTRUM ANALYZER | |
|-----------------------|---------|----------------------|-----------|
| <u>Test Results</u> | | | CTATESTIN |
| Modulation | Channel | 20dB bandwidth (MHz) | Result |
| TING | CH00 | 0.933 | |
| GFSK | CH39 | 0.954 | |
| CTA | CH78 | 0.987 | |
| 917 | CH00 | 1.332 | NG. |
| π/4DQPSK | CH39 | 1.329 | Pass |
| | CH78 | 1.284 | |
| | CH00 | 1.317 | |
| 8DPSK | CH39 | 1.308 | To the |
| -ING | CH78 | 1.320 | |
| ATESTINO | TESTING | | |
| Test plot as follows: | TE | TESTING | |
| | | TESTIN | |









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Frequency Separation

LIMIT

According to 15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz 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 100 KHz RBW and 300 KHz VBW.

TEST CONFIGURATION



TEST RESULTS

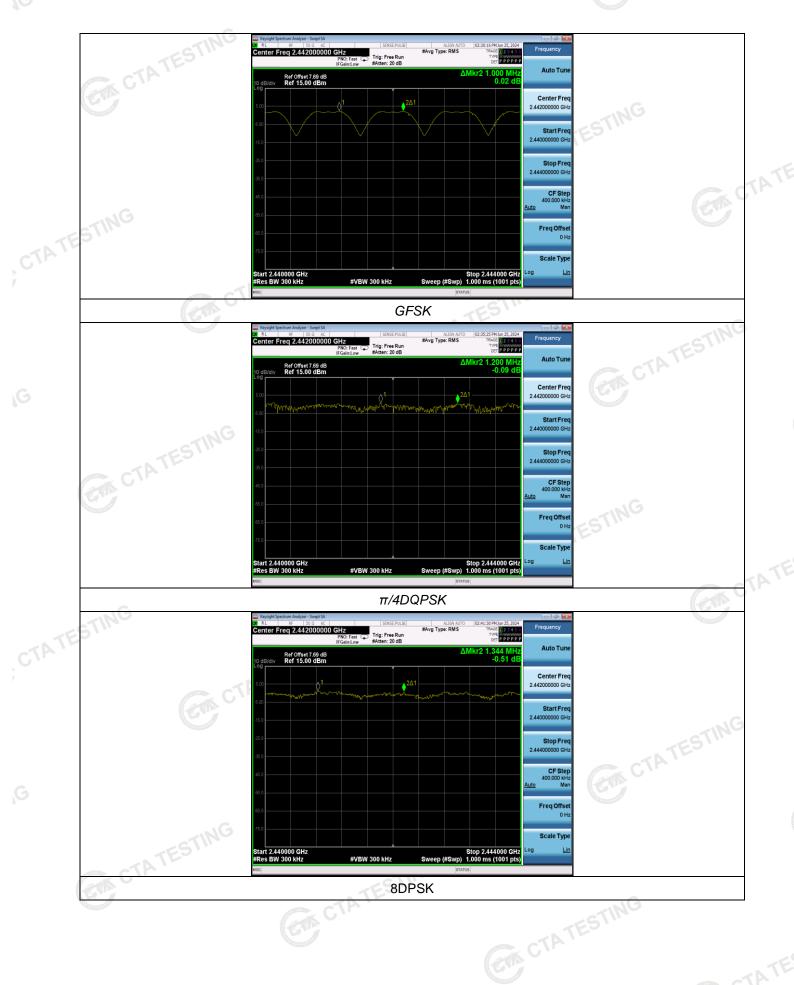
| TEST RESULTS | | CTATES CTATES | | TESTING | |
|--------------|---------|-----------------------------|-------------------|---------|--|
| Modulation | Channel | Channel Separation (MHz) | Limit(MHz) | Result | |
| GFSK | CH38 | 1.000 | 25KHz or 2/3*20dB | Pass | |
| Gran | CH39 | 1.000 | bandwidth | F a33 | |
| π/4DQPSK | CH38 | 1.200 | 25KHz or 2/3*20dB | Pass | |
| II/4DQPSK | CH39 | 1.200 | bandwidth | Pass | |
| 8DPSK | CH38 | 1 244 | 25KHz or 2/3*20dB | Door | |
| ODPSK | CH39 | 1.344 | bandwidth | Pass | |

Note:

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

Test plot as follows: CTATESTING

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Number of hopping frequency

Limit

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

Test Procedure

CTATE The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz with 100 KHz RBW and 300 KHz VBW.

Test Configuration

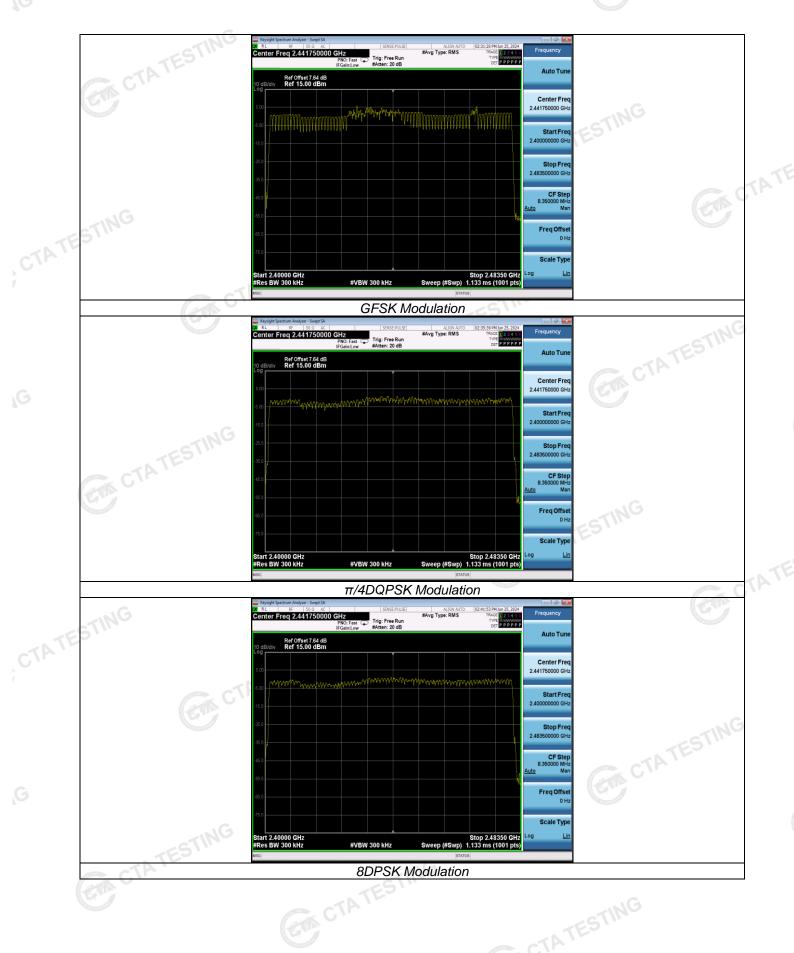


Test Results

| Test Results | | STING | | |
|--------------|---------------------------|-------|--------|--|
| Modulation | Number of Hopping Channel | Limit | Result | |
| GFSK | 79 | | No. | |
| π/4DQPSK | 79 | ≥15 | Pass | |
| 8DPSK | 79 | | | |

Test plot as follows:

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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 1MHz VBW, Span 0Hz.

Test Configuration



Test Results

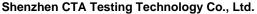
| Test Results | | | CTATES | | TESTING |
|--------------|--------|--------------------|-------------------|-----------|---------|
| Modulation | Packet | Burst time (ms) | Dwell time (s) | Limit (s) | Result |
| | DH1 | 0.38 | 0.122 | | |
| GFSK | DH3 | 1.64 | 0.262 | 0.40 | Pass |
| TES | DH5 | 2.89 | 0.308 | | |
| CIL | 2-DH1 | 0.39 | 0.125 | | |
| π/4DQPSK | 2-DH3 | 1.64 | 0.262 | 0.40 | Pass |
| | 2-DH5 | 2.88 | 0.307 | TESTIN | |
| | 3-DH1 | 0.39 | 0.125 | CTA | |
| 8DPSK | 3-DH3 | 1.65 | 0.264 | 0.40 | Pass |
| | 3-DH5 | 2.88 | 0.307 | | C |

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

Dwell time=Pulse time (ms) \times (1600 \div 2 \div 79) \times 31.6 Second for DH1, 2-DH1, 3-DH1

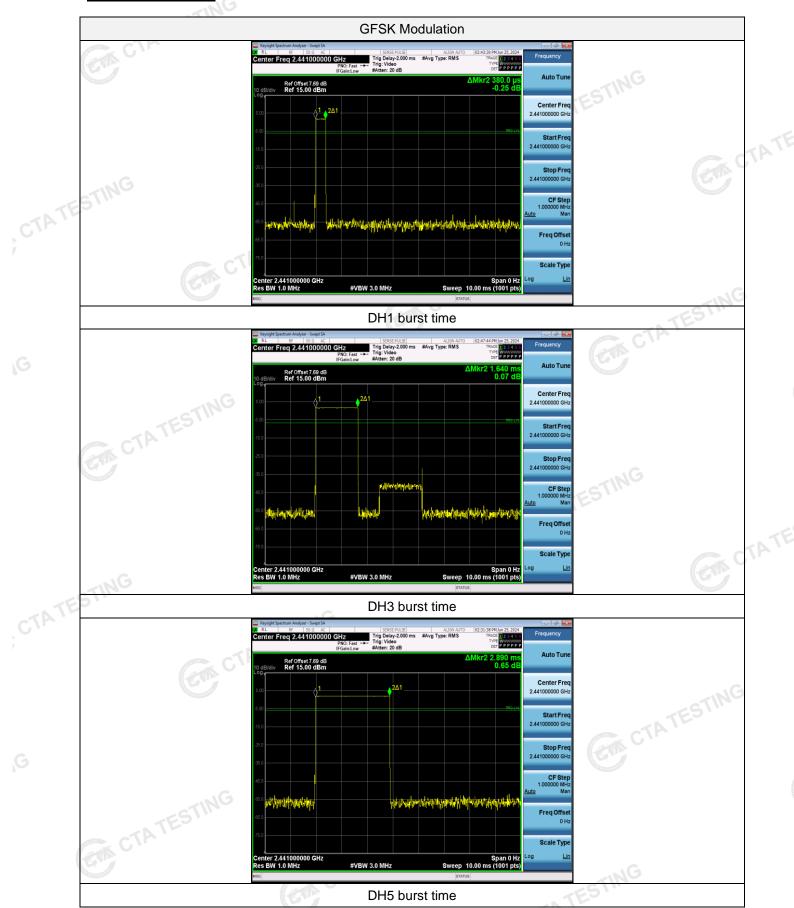
Dwell time=Pulse time (ms) \times (1600 \div 4 \div 79) \times 31.6 Second for DH3, 2-DH3, 3-DH3

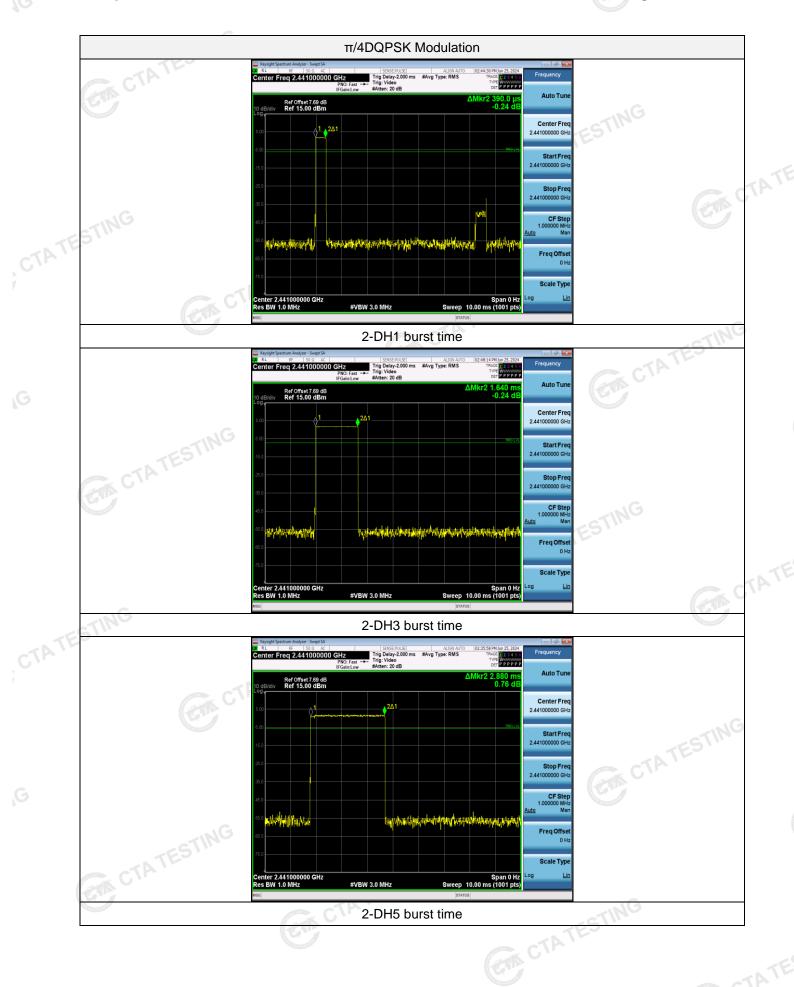
Dwell time=Pulse time (ms) \times (1600 \div 6 \div 79) \times 31.6 Second for DH5, 2-DH5, 3-DH5

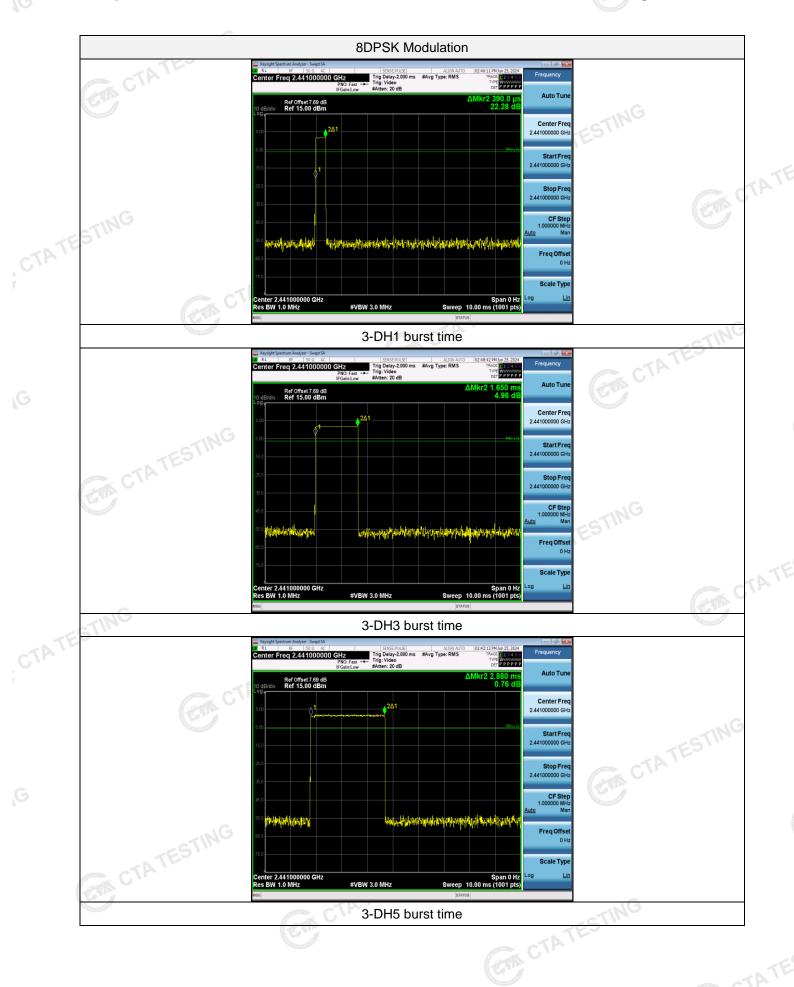


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Test plot as follows:







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Out-of-band Emissions 4.8

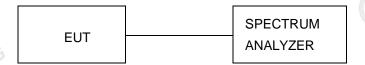
Limit

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 con-ducted or a radiated measurement, pro-vided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter com-plies 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.

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 CTA TESTING made of the in-band reference level, bandedge 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

Test plot as follows:

