



FCC Test Report

Test report

On Behalf of

Shenzhen Kinwayn Tech Co.,Ltd.

For

Aquairum LED Light

**Model No.: AQBEAM, BRITE, VIVA, CREST, PEAK, FERN, SOLO, AXON,
MASTER, SLIM, ARTISAN, WF-C, BT-C, MBT-C**

FCC ID: 2BEXO-AQBEAM

Prepared For : Shenzhen Kinwayn Tech Co.,Ltd.

**308 Building Lezee H, Wangtang Industrial Park, Shigu Rd, Xili Street,
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Prepared By : Shenzhen HUAK Testing Technology Co., Ltd.

**1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
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Date of Test: Mar. 29, 2024 ~ Apr. 08, 2024

Date of Report: Apr. 08, 2024

Report Number: HK2402010680-E

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Test Result Certification

Applicant's name : Shenzhen Kinwayn Tech Co.,Ltd.
Address..... : 308 Building Lezee H, Wangtang Industrial Park, Shigu Rd, Xili Street, Nanshan District, Shenzhen, China

Manufacturer's Name..... : Shenzhen Kinwayn Tech Co.,Ltd.
Address..... : 308 Building Lezee H, Wangtang Industrial Park, Shigu Rd, Xili Street, Nanshan District, Shenzhen, China

Product description

Trade Mark..... : Fzone, MagTool, Natures Environments
Product name..... : Aquairum LED Light
Model and/or type reference ... : AQBEAM, BRITE, VIVA, CREST, PEAK, FERN, SOLO, AXON, MASTER, SLIM, ARTISAN, WF-C, BT-C, MBT-C

Standards..... : **47 CFR FCC Part 15 Subpart C 15.247**
KDB 558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10: 2013

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Date of Test :
Date (s) of performance of tests..... : **Mar. 29, 2024 ~ Apr. 08, 2024**
Date of Issue : **Apr. 08, 2024**
Test Result..... : **Pass**

Testing Engineer : Len Liao
(Len Liao)

Technical Manager : Sliver Wan
(Sliver Wan)

Authorized Signatory : Jason Zhou
(Jason Zhou)

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**** Modified History ****

| Revision | Description | Issued Data | Remark |
|--------------|-----------------------------|---------------|------------|
| Revision 1.0 | Initial Test Report Release | Apr. 08, 2024 | Jason Zhou |
| | | | |
| | | | |



1 Test Summary

1.1 Test Description

| Test Item | Test Requirement | Result |
|--------------------------------|------------------------|--------|
| Antenna Requirement | §15.203/§15.247(b)(4) | PASS |
| Conducted Emission | FCC Part 15.207 | PASS |
| Radiated Emissions | FCC Part 15.205/15.209 | PASS |
| Maximum Peak Output Power | FCC Part 15.247(b) | PASS |
| Power Spectral Density | FCC Part 15.247(e) | PASS |
| 6dB Bandwidth & 99% Bandwidth | FCC Part 15.247(a)(2) | PASS |
| Spurious RF Conducted Emission | FCC Part 15.247(d) | PASS |
| Band Edge | FCC Part 15.247(d) | PASS |

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.



1.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties. 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 LCS 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. The maximum value of the uncertainty as below:

| No. | Item | Uncertainty |
|-----|------------------------------|-------------|
| 1 | Conducted Emission Test | ±2.71dB |
| 2 | All emissions, radiated(<1G) | ±3.90dB |
| 3 | All emissions, radiated(>1G) | ±4.28dB |

1.3 Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.
Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao’an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

- A2LA Accreditation Code is 4781.01.
- FCC Designation Number is CN1229.
- Canada IC CAB identifier is CN0045.
- CNAS Registration Number is L9589.



2 General Information

2.1 General Description of EUT

| | |
|------------------------|---|
| EUT Name: | Aquairum LED Light |
| Model Name: | AQBEAM |
| Series Model: | BRITE, VIVA, CREST, PEAK, FERN, SOLO, AXON, MASTER, SLIM, ARTISAN, WF-C, BT-C, MBT-C |
| Model Difference: | All model's the function, software and electric circuit are the same, only with model named different. Test sample model: AQBEAM. |
| Trade Mark: | Fzone, MagTool, Natures Environments |
| Operation Frequency: | 2402 MHz to 2480 MHz |
| Channel Separation: | 2MHz |
| Number of Channel: | 40 |
| Modulation Technology: | GFSK |
| Software Version | V2.0 |
| Hardware Version | V2.0 |
| Antenna Type: | Ceramic Antenna |
| Antenna Gain: | 1.9dBi |
| Power Supply: | DC 36.0V 4.2A from Adapter |
| Note: | 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |



| Description of Channel: | | | | | |
|-------------------------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 0 | 2402 | 14 | 2430 | 28 | 2458 |
| 1 | 2404 | 15 | 2432 | 29 | 2460 |
| 2 | 2406 | 16 | 2434 | 30 | 2462 |
| 3 | 2408 | 17 | 2436 | 31 | 2464 |
| 4 | 2410 | 18 | 2438 | 32 | 2466 |
| 5 | 2412 | 19 | 2440 | 33 | 2468 |
| 6 | 2414 | 20 | 2442 | 34 | 2470 |
| 7 | 2416 | 21 | 2444 | 35 | 2472 |
| 8 | 2418 | 22 | 2446 | 36 | 2474 |
| 9 | 2420 | 23 | 2448 | 37 | 2476 |
| 10 | 2422 | 24 | 2450 | 38 | 2478 |
| 11 | 2424 | 25 | 2452 | 39 | 2480 |
| 12 | 2426 | 26 | 2454 | | |
| 13 | 2428 | 27 | 2456 | | |

The EUT has been operated in modulations: GFSK independently.

| NO. | TEST MODE DESCRIPTION |
|-----|-----------------------|
| 1 | Low channel TX |
| 2 | Middle channel TX |
| 3 | High channel TX |

Note:

- All the test modes can be supply by Dc power supply, only the result of the worst case was recorded in the report if no any records.
- For Radiated Emission, 3axis were chosen for testing for each applicable mode.



2.2 Description of Test Conditions

(1) E.U.T. test conditions:

For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

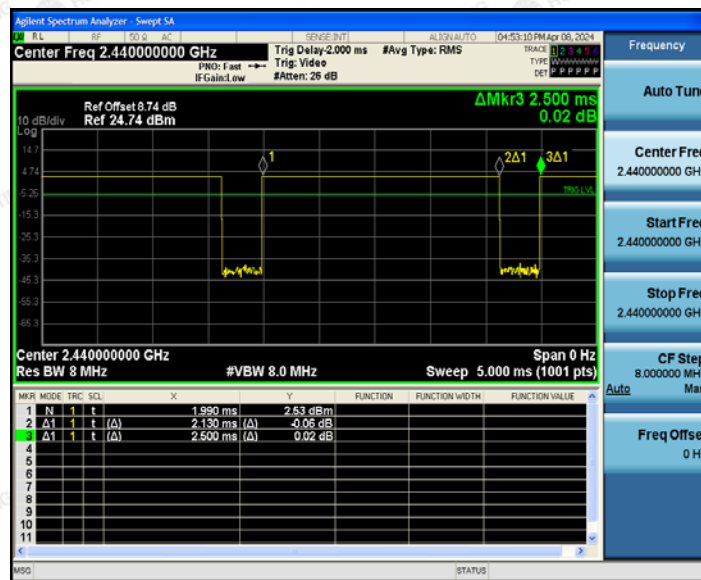
(2) Frequency range of radiated measurements:

The test range will be up to the tenth harmonic of the highest fundamental frequency.

(3) Pre-test the EUT in all transmitting mode at the lowest (2402 MHz), middle (2440 MHz) and highest (2480 MHz) channel with different data packet and conducted to determine the worst-case mode, only the worst-case results are recorded in this report.

(4) Mode Test Duty Cycle

| Mode | Duty Cycle | Duty Cycle Factor (dB) |
|--------------|------------|------------------------|
| BT-LE(1Mbps) | 0.852 | -1.391 |

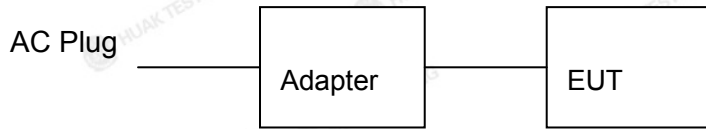


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2.3 Description of Test Setup

Operation of EUT during radiation testing and conducted testing:



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.



2.4 DESCRIPTION OF SUPPORT UNITS

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

| Item | Equipment | Mfr/Brand | Model/Type No. | Specification | Note |
|------|--------------------|--------------------------------------|-----------------|---|-----------|
| 1 | Aquairum LED Light | Fzone, MagTool, Natures Environments | AQBEAM | N/A | EUT |
| 2 | Adapter | N/A | GM152-3600420-D | Input: 100-240VAC, 50/60Hz, 2.5A Output: 36.0V 4.2A; 151.2W | Accessory |
| | | | | | |
| | | | | | |

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer’s requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



3 Equipments List for All Test Items

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---------------------------------|-----------------|----------------------------|------------|---------------|---------------|
| 1. | L.I.S.N. | R&S | ENV216 | HKE-002 | Feb. 20, 2024 | 1 Year |
| 2. | L.I.S.N. | R&S | ENV216 | HKE-059 | Feb. 20, 2024 | 1 Year |
| 3. | EMI Test Receiver | R&S | ESR | HKE-005 | Feb. 20, 2024 | 1 Year |
| 4. | Spectrum analyzer | Agilent | N9020A | HKE-048 | Feb. 20, 2024 | 1 Year |
| 5. | Spectrum analyzer | R&S | FSV3044 | HKE-126 | Feb. 20, 2024 | 1 Year |
| 6. | Preamplifier | EMCI | EMC051845S | HKE-006 | Feb. 20, 2024 | 1 Year |
| 7. | Preamplifier | Schwarzbeck | BBV 9743 | HKE-016 | Feb. 21, 2024 | 2 Year |
| 8. | Preamplifier | A.H. Systems | SAS-574 | HKE-182 | Feb. 20, 2024 | 1 Year |
| 9. | 6d Attenuator | Pasternack | 6db | HKE-184 | Feb. 21, 2024 | 1 Year |
| 10. | EMI Test Receiver | Rohde & Schwarz | ESR-7 | HKE-010 | Feb. 21, 2024 | 1 Year |
| 11. | Broadband Antenna | Schwarzbeck | VULB9168 | HKE-167 | Feb. 21, 2024 | 2 Year |
| 12. | Loop Antenna | COM-POWER | AL-130R | HKE-014 | Feb. 20, 2024 | 2 Year |
| 13. | Horn Antenna | Schwarzbeck | 9120D | HKE-013 | Feb. 20, 2024 | 2 Year |
| 14. | EMI Test Software | Tonscend | JS32-CE 2.5.0.6 | HKE-081 | N/A | N/A |
| 15. | EMI Test Software | Tonscend | JS32-RE 5.0.0 | HKE-082 | N/A | N/A |
| 16. | RF Automatic control unit | Tonscend | JS0806-1 | HKE-096 | N/A | N/A |
| 17. | High pass filter unit | Tonscend | JS0806-F | HKE-055 | N/A | N/A |
| 18. | Wireless Communication Test Set | R&S | CMU200 | HKE-026 | Feb. 20, 2024 | 1 Year |
| 19. | Wireless Communication Test Set | R&S | CMW500 | HKE-027 | N/A | N/A |
| 20. | High-low temperature chamber | Guangke | HT-80L | HKE-118 | Jun. 11, 2023 | 1 Year |
| 21. | Temperature and humidity meter | Boyang | HTC-1 | HKE-075 | Jun. 11, 2023 | 1 Year |
| 22. | RF Test Software | Tonscend | JS1120-3 Version 3.3.23 | HKE-083 | N/A | N/A |
| 23. | 10dB Attenuator | SCHWARZBECK | VTSD9561F | HKE-153 | Feb. 20, 2024 | 1 Year |

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4 Test Result

4.1 Antenna Requirement

4.1.1 Standard 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.

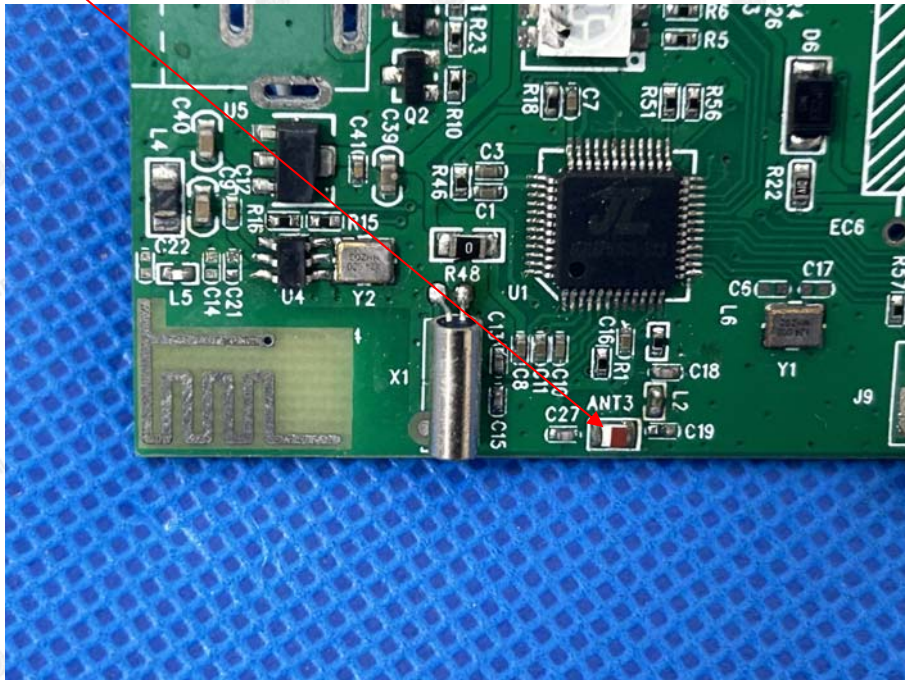
Refer to statement below for compliance.

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 Ceramic Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 1.9dBi.

4.1.2 EUT Antenna





4.2 Conduction Emissions Measurement

4.2.1 Applied Procedures / Limit

According to FCC CFR Title 47 Part 15 Subpart C Section 15.207, AC Power Line Conducted Emissions Limits for Licence-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 |

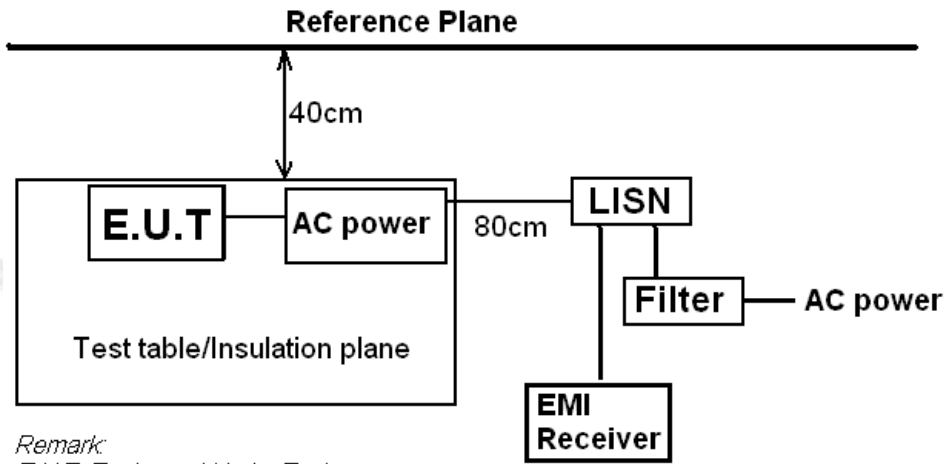
* Decreases with the logarithm of the frequency.

4.2.2 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.



4.2.3 Test Setup



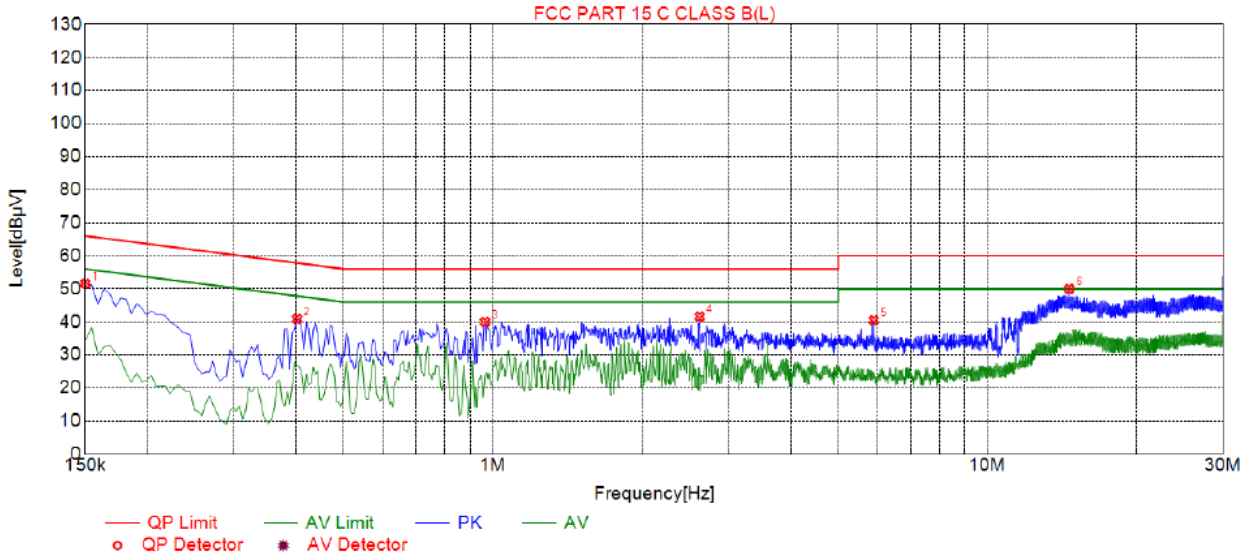
Remark:
E.U.T: Equipment Under Test
LISN: Line Impedance Stabilization Network
Test table height=0.8m



4.2.4 Test Results

All modes have been tested, only the worst mode of GFSK: 2402MHz is reflected.

Test Specification: Line



| Suspected List | | | | | | | | |
|----------------|-------------|--------------|-------------|--------------|-------------|----------------|----------|------|
| NO. | Freq. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Reading [dBμV] | Detector | Type |
| 1 | 0.1500 | 51.59 | 20.03 | 66.00 | 14.41 | 31.56 | PK | L |
| 2 | 0.4020 | 40.90 | 20.04 | 57.81 | 16.91 | 20.86 | PK | L |
| 3 | 0.9645 | 39.98 | 20.06 | 56.00 | 16.02 | 19.92 | PK | L |
| 4 | 2.6205 | 41.58 | 20.21 | 56.00 | 14.42 | 21.37 | PK | L |
| 5 | 5.8965 | 40.44 | 20.23 | 60.00 | 19.56 | 20.21 | PK | L |
| 6 | 14.6490 | 49.94 | 19.95 | 60.00 | 10.06 | 29.99 | PK | L |

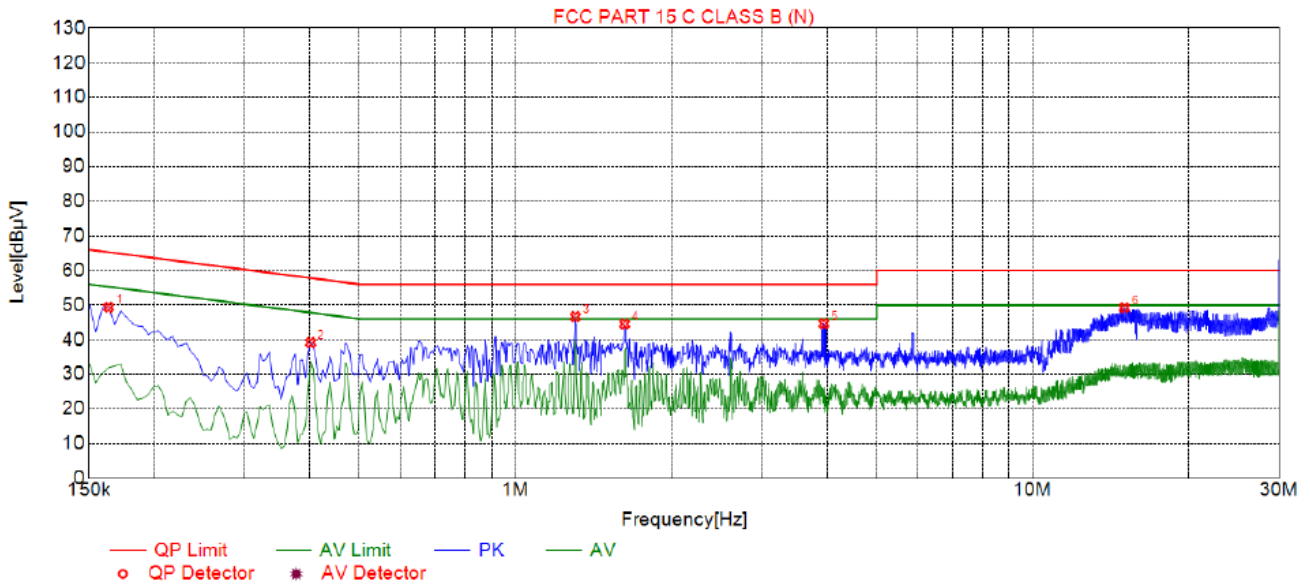
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



| Suspected List | | | | | | | | |
|----------------|-------------|--------------|-------------|--------------|-------------|----------------|----------|------|
| NO. | Freq. [MHz] | Level [dBµV] | Factor [dB] | Limit [dBµV] | Margin [dB] | Reading [dBµV] | Detector | Type |
| 1 | 0.1635 | 49.36 | 19.98 | 65.28 | 15.92 | 29.38 | PK | N |
| 2 | 0.4020 | 39.16 | 20.04 | 57.81 | 18.65 | 19.12 | PK | N |
| 3 | 1.3065 | 46.62 | 20.10 | 56.00 | 9.38 | 26.52 | PK | N |
| 4 | 1.6260 | 44.51 | 20.11 | 56.00 | 11.49 | 24.40 | PK | N |
| 5 | 3.9480 | 44.65 | 20.25 | 56.00 | 11.35 | 24.40 | PK | N |
| 6 | 15.0495 | 49.25 | 19.96 | 60.00 | 10.75 | 29.29 | PK | N |

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

4.3 Radiated Emissions Measurement

4.3.1 Applied Procedures / 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.

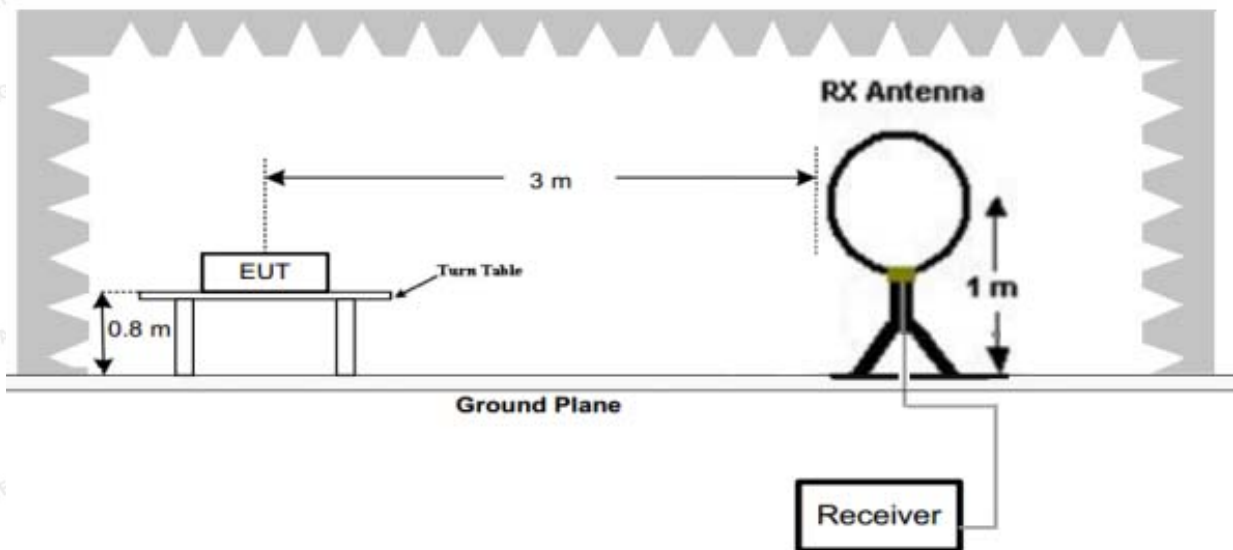
Radiated emission limits

| Frequency (MHz) | Distance (Meters) | Radiated (dBµV/m) | Radiated (µV/m) |
|-----------------|-------------------|--|-----------------------|
| 0.009-0.49 | 3 | $20\log(2400/F(\text{KHz}))+40\log(300/3)$ | $2400/F(\text{KHz})$ |
| 0.49-1.705 | 3 | $20\log(24000/F(\text{KHz}))+40\log(30/3)$ | $24000/F(\text{KHz})$ |
| 1.705-30 | 3 | $20\log(30)+40\log(30/3)$ | 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 |

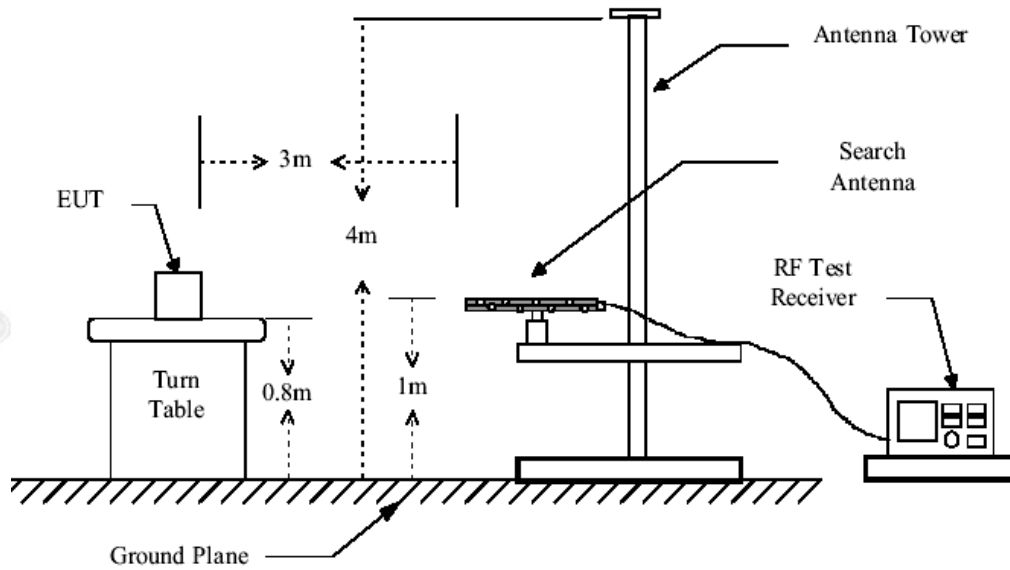
4.3.2 Test Setup

Test Configuration:

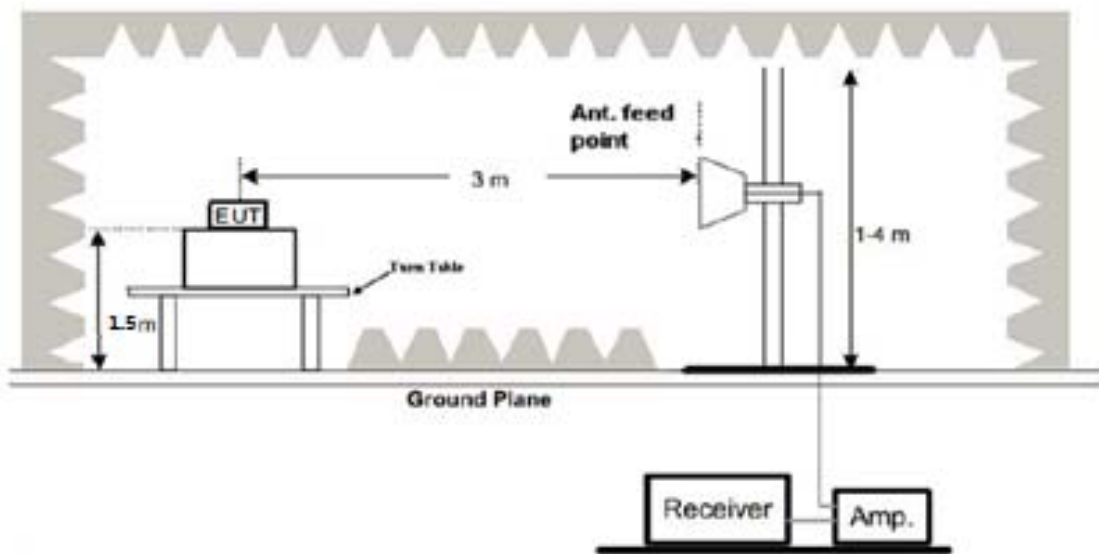
- 1) 9 kHz to 30 MHz emissions:



2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 25 GHz emissions:

**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° 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.
4. Repeat above procedures until all frequency measurements have been completed.



4.3.3 Test Result

Below 1GHz Test Results:

All modes have been tested, only the worst mode of GFSK Low channel TX is reflected.

Antenna polarity: H



| Suspected List | | | | | | | | | |
|----------------|-------------|-------------|------------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Factor [dB] | Reading [dBµV/m] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 31.941942 | -15.76 | 50.71 | 34.95 | 40.00 | 5.05 | 100 | 47 | Horizontal |
| 2 | 58.158158 | -14.00 | 45.30 | 31.30 | 40.00 | 8.70 | 100 | 1 | Horizontal |
| 3 | 103.79379 | -14.69 | 43.41 | 28.72 | 43.50 | 14.78 | 100 | 8 | Horizontal |
| 4 | 282.45245 | -12.56 | 47.97 | 35.41 | 46.00 | 10.59 | 100 | 19 | Horizontal |
| 5 | 337.79779 | -10.46 | 43.20 | 32.74 | 46.00 | 13.26 | 100 | 19 | Horizontal |
| 6 | 481.50150 | -8.18 | 36.24 | 28.06 | 46.00 | 17.94 | 100 | 72 | 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 [dBµV/m] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 32.912913 | -15.12 | 45.04 | 29.92 | 40.00 | 10.08 | 100 | 14 | Vertical |
| 2 | 46.506507 | -13.89 | 41.19 | 27.30 | 40.00 | 12.70 | 100 | 14 | Vertical |
| 3 | 80.49049 | -18.34 | 45.34 | 27.00 | 40.00 | 13.00 | 100 | 20 | Vertical |
| 4 | 143.60360 | -18.35 | 54.15 | 35.80 | 43.50 | 7.70 | 100 | 2 | Vertical |
| 5 | 247.49749 | -13.31 | 42.42 | 29.11 | 46.00 | 16.89 | 100 | 22 | Vertical |
| 6 | 286.33633 | -12.36 | 43.08 | 30.72 | 46.00 | 15.28 | 100 | 22 | 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 (dBµV/m) | Limit@3m (dBµV/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 | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 4804 | 56.94 | -3.65 | 53.29 | 74.00 | -20.71 | peak |
| 4804 | 36.30 | -3.65 | 32.65 | 54.00 | -21.35 | AVG |
| 7206 | 56.61 | -0.95 | 55.66 | 74.00 | -18.34 | peak |
| 7206 | 35.92 | -0.95 | 34.97 | 54.00 | -19.03 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 4804 | 55.74 | -3.65 | 52.09 | 74.00 | -21.91 | peak |
| 4804 | 37.30 | -3.65 | 33.65 | 54.00 | -20.35 | AVG |
| 7206 | 54.90 | -0.95 | 53.95 | 74.00 | -20.05 | peak |
| 7206 | 34.70 | -0.95 | 33.75 | 54.00 | -20.25 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit



CH Middle (2440MHz)

Horizontal:

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------|----------------|----------------------------|--------------------|----------------|------------------|
| 4880.00 | 55.55 | -3.54 | 52.01 | 74.00 | -21.99 | peak |
| 4880.00 | 35.81 | -3.54 | 32.27 | 54.00 | -21.73 | AVG |
| 7320.00 | 56.27 | -0.81 | 55.46 | 74.00 | -18.54 | peak |
| 7320.00 | 34.47 | -0.81 | 33.66 | 54.00 | -20.34 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------|----------------|----------------------------|--------------------|----------------|------------------|
| 4880.00 | 54.92 | -3.54 | 51.38 | 74.00 | -22.62 | peak |
| 4880.00 | 35.74 | -3.54 | 32.20 | 54.00 | -21.80 | AVG |
| 7320.00 | 57.32 | -0.81 | 56.51 | 74.00 | -17.49 | peak |
| 7320.00 | 33.94 | -0.81 | 33.13 | 54.00 | -20.87 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit



CH High (2480MHz)

Horizontal:

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 4960 | 56.79 | -3.43 | 53.36 | 74.00 | -20.64 | peak |
| 4960 | 35.98 | -3.44 | 32.54 | 54.00 | -21.46 | AVG |
| 7440 | 54.59 | -0.77 | 53.82 | 74.00 | -20.18 | peak |
| 7440 | 34.20 | -0.77 | 33.43 | 54.00 | -20.57 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 4960 | 53.97 | -3.43 | 50.54 | 74.00 | -23.46 | peak |
| 4960 | 37.44 | -3.44 | 34.00 | 54.00 | -20.00 | AVG |
| 7440 | 55.10 | -0.77 | 54.33 | 74.00 | -19.67 | peak |
| 7440 | 34.53 | -0.77 | 33.76 | 54.00 | -20.24 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



Radiated Band Edge Test:

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case):

| Frequency (MHz) | Reading Result (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|--------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 2310.00 | 54.02 | -5.81 | 48.21 | 74 | -25.79 | peak |
| 2310.00 | / | -5.81 | / | 54 | / | AVG |
| 2390.00 | 55.69 | -5.84 | 49.85 | 74 | -24.15 | peak |
| 2390.00 | / | -5.84 | / | 54 | / | AVG |
| 2400.00 | 56.38 | -5.84 | 50.54 | 74 | -23.46 | peak |
| 2400.00 | / | -5.84 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

| Frequency (MHz) | Reading Result (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|--------------------|--------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 2310.00 | 55.74 | -5.81 | 49.93 | 74 | -24.07 | peak |
| 2310.00 | / | -5.81 | / | 54 | / | AVG |
| 2390.00 | 56.98 | -5.84 | 51.14 | 74 | -22.86 | peak |
| 2390.00 | / | -5.84 | / | 54 | / | AVG |
| 2400.00 | 55.25 | -5.84 | 49.41 | 74 | -24.59 | peak |
| 2400.00 | / | -5.84 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit



Operation Mode: TX CH High (2480MHz)
Horizontal (Worst case)

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 2483.50 | 56.38 | -5.81 | 50.57 | 74 | -23.43 | peak |
| 2483.50 | / | -5.81 | / | 54 | / | AVG |
| 2500.00 | 57.41 | -6.06 | 51.35 | 74 | -22.65 | peak |
| 2500.00 | / | -6.06 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

| Frequency (MHz) | Meter Reading (dBµV) | Factor (dB) | Emission Level (dBµV/m) | Limits (dBµV/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 | 54.28 | -6.06 | 48.22 | 74 | -25.78 | peak |
| 2500.00 | / | -6.06 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

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

Remark:

1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

4.4 Maximum Output Power Measurement

4.4.1 Limit

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 Test Procedure

The maximum peak conducted output power may be measured using a broadband peak RF automatic control unit. The RF automatic control unit shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The maximum Average conducted output power may be measured using a wideband RF automatic control unit with a thermocouple detector or equivalent. The RF automatic control unit shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

4.4.3 Deviation From Standard

No deviation.

4.4.4 Test Setup



4.4.5 Test Results

| Channel | Channel Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) | Limit (dBm) | Result |
|---------|-------------------------|---|-------------|--------|
| Low | 2402 | 1.64 | 30 | Pass |
| Middle | 2440 | 2.79 | | Pass |
| High | 2480 | 3.8 | | Pass |



4.5 Power Spectral Density

4.5.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.5.2 Test Procedure

Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

Set the RBW =10 kHz.

Set the VBW =30 KHz.

Set the span to 1.5 times the DTS channel bandwidth.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum power level.

If measured value exceeds limit, reduce RBW(no less than 3 kHz)and repeat.

The resulting peak PSD level must be 8 dBm.

4.5.3 Deviation From Standard

No deviation.

4.5.4 Test Setup





4.5.5 Test Results

| Channel | Channel frequency (MHz) | Power Spectral Density (dBm/10KHz) | 10log (3/10) | Result (dBm/3kHz) |
|---|-------------------------|------------------------------------|--------------|-------------------|
| Low | 2402 | -8.66 | -5.23 | -13.89 |
| Middle | 2440 | -7.43 | -5.23 | -12.66 |
| High | 2480 | -6.3 | -5.23 | -11.53 |
| PSD Test Result (dBm/3kHz)= Power Spectral Density (dBm/10KHz) +10log(3/10) | | | | |
| Limit: 8dBm/3kHz | | | | |
| Test Result: | PASS | | | |

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4.6 6db Bandwidth

4.6.1 Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

4.6.2 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 RBW=100 KHz and VBW=300 KHz.

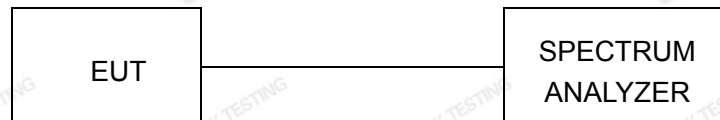
The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.6.3 Deviation From Standard

No deviation.

4.6.4 Test Setup



4.6.5 Test Result

1M

| Channel | Channel frequency (MHz) | 6dB Bandwidth (MHz) | Limit (KHz) | Result |
|---------|-------------------------|---------------------|-------------|--------|
| Low | 2402 | 0.652 | ≥500 | Pass |
| Middle | 2440 | 0.664 | | Pass |
| High | 2480 | 0.724 | | Pass |



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4.7 Occupied Bandwidth

4.7.1 Test Procedure

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 recorded.

4.7.2 Deviation From Standard

No deviation.

4.7.3 Test Setup



4.7.4 Test Result

N/A



4.8 Band Edge

4.8.1 Limit

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 FCC rules in section 5.8.1, the attenuation required shall be 30 dB instead of 20 dB.

4.8.2 Test Procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation, RBW \geq 1% of the span, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.

4.8.3 Deviation From Standard

No deviation.

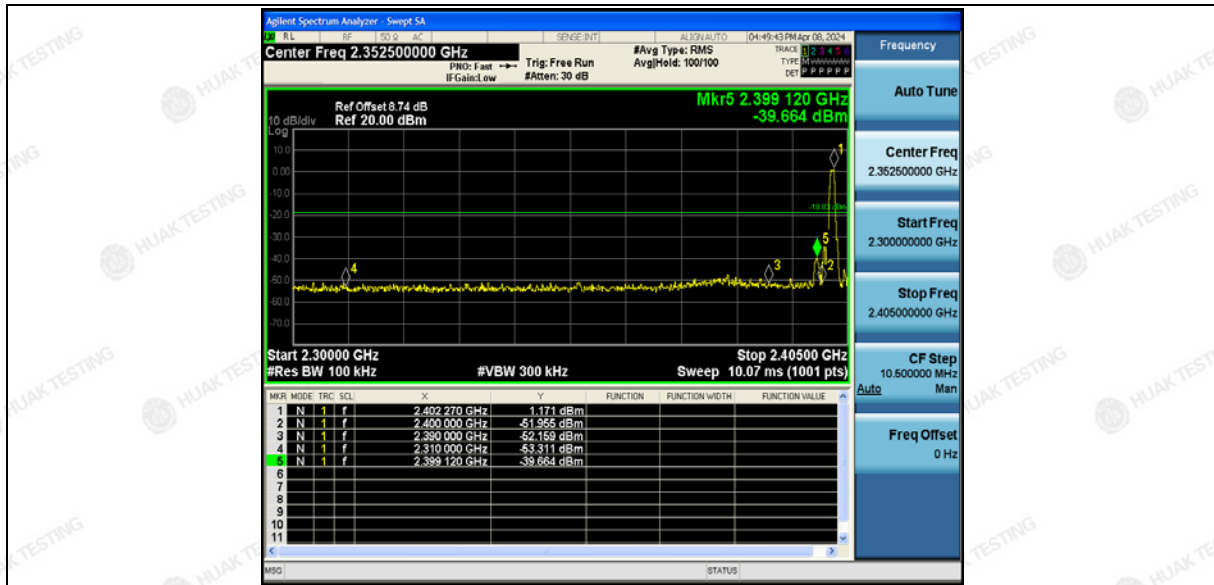
4.8.4 Test Setup



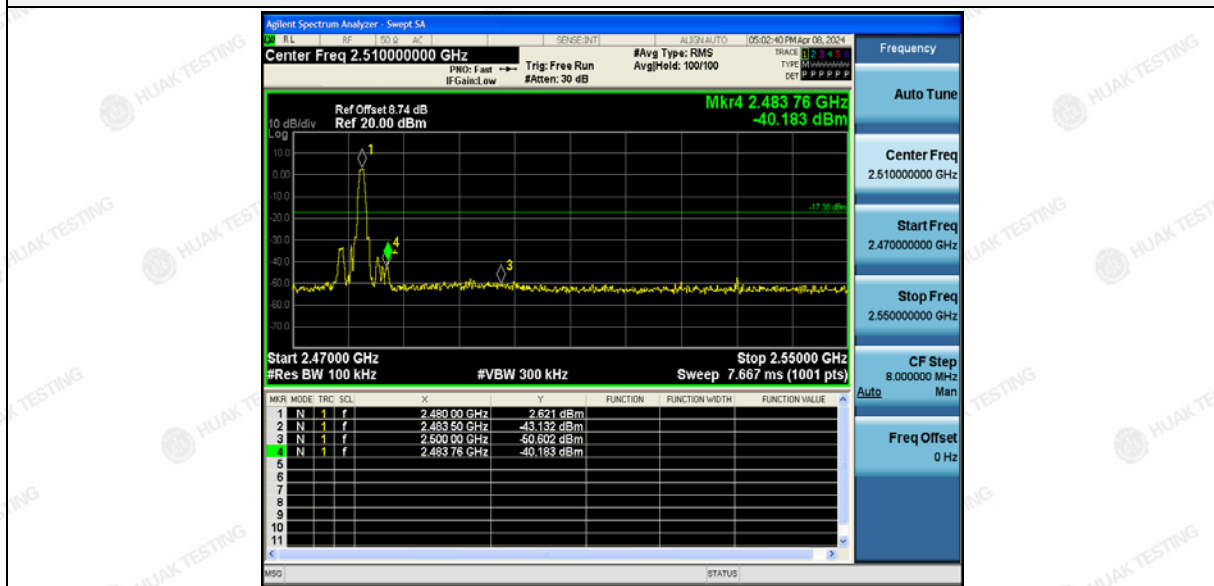


4.8.5 Test Results

PASS



2402



2480

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4.9 Conducted Spurious Emissions

4.9.1 Applied Procedures / Limit

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 (b)(3) of RSS 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. For below 30MHz, For 9KHz-150kHz, 150K-10MHz, We use the RBW 1KHz, 10KHz, So the limit need to be calculated by $10\lg(BW1/BW2)$. for example For 9KHz-150kHz, RBW 1KHz, The Limit= the highest emission level-20-10log(100/1)= the highest emission level-40.

4.9.2 Test Procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation, $RBW \geq 1\%$ of the span, $VBW \geq RBW$, Sweep = auto, Detector function = peak, Trace = max hold.

4.9.3 Deviation From Standard

No deviation.

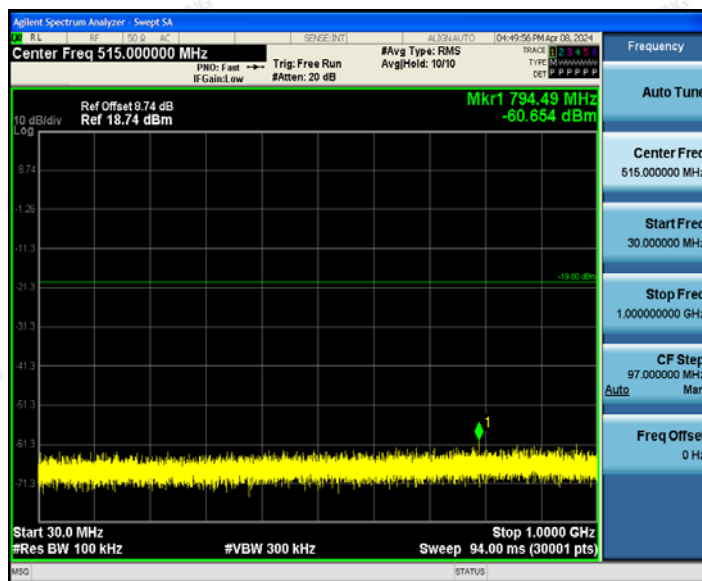
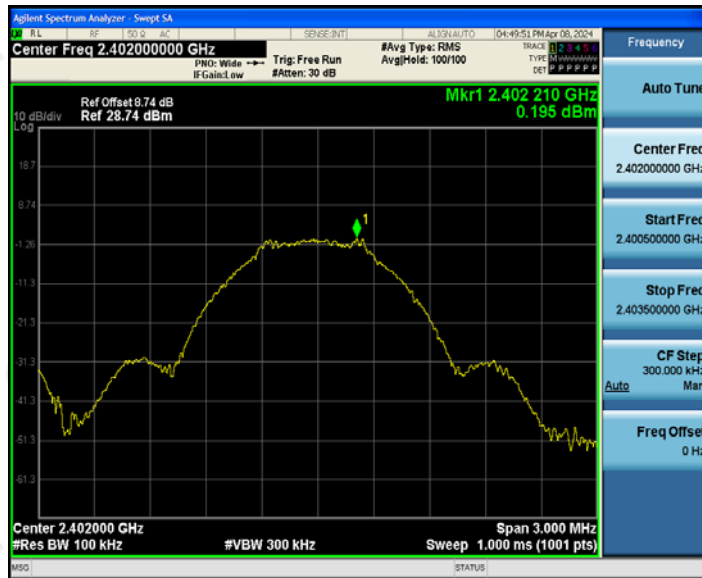
4.9.4 Test Setup





4.9.5 Test Results

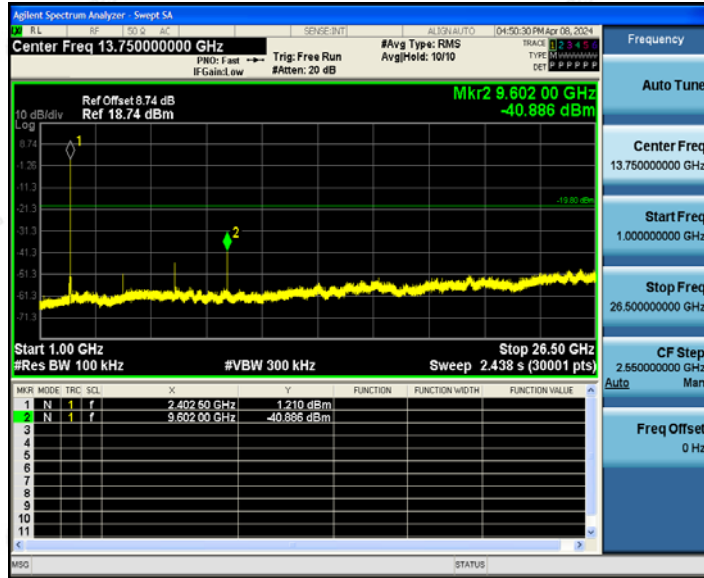
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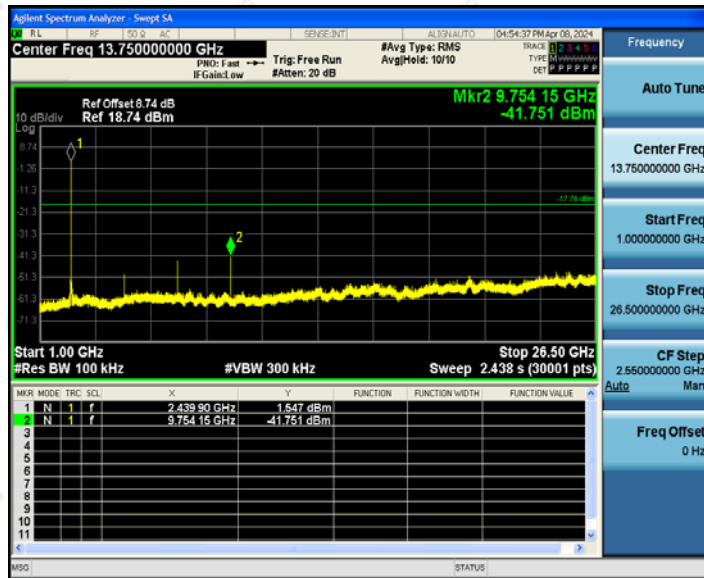
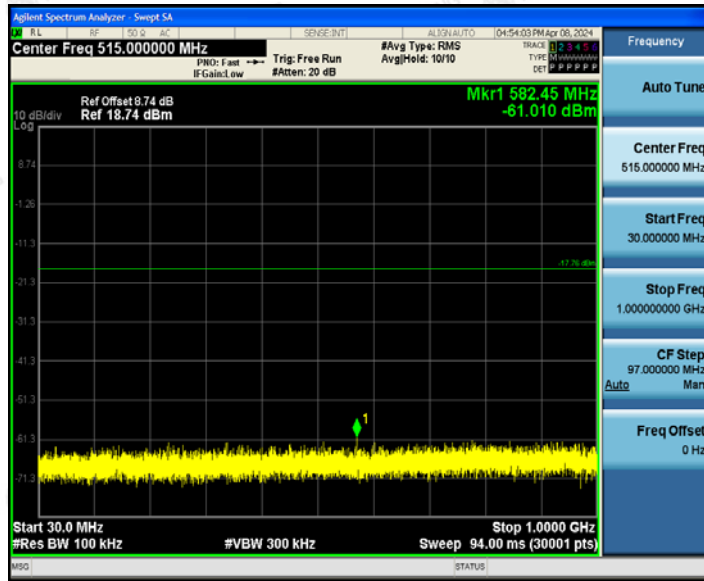
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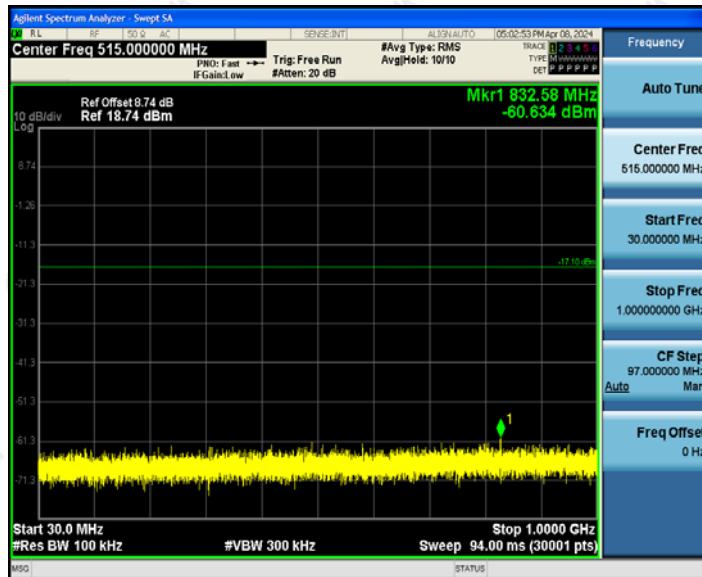
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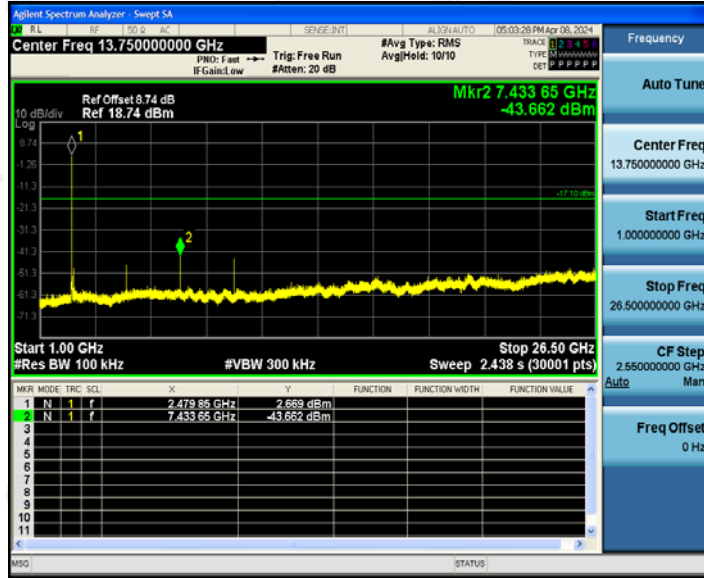
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5 Test Setup Photo

Radiated Emissions



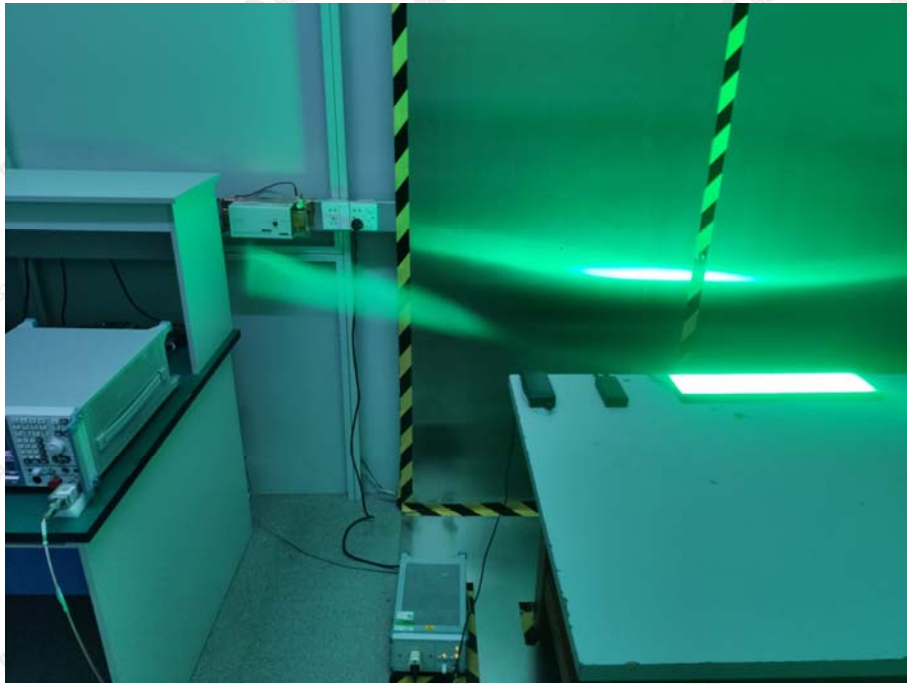
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Conducted Emission



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6 Photos of the EUT

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

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