



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. ....: CTA25072800801

FCC ID. ....: 2BRFT-LB-OWS-AE-D1

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Date of issue .....: Jul. 31, 2025

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

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

Applicant's name .....: Shenzhen Ruimingda Electronic Communication Co., Ltd.

Address .....: Room 703, Building 1, No. 17, Hongtao Road, Qingshuihe Street, Luohu District, Shenzhen, China

Test specification.....:

Standard.....: FCC Part 15.247

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Test item description .....: OWS Earphone

Trade Mark.....: N/A

Manufacturer .....: Guangdong Dasen Electronic Technology Co., Ltd.

Model/Type reference .....: LB-OWS-AE-D1

Listed Models .....: N/A

Modulation .....: GFSK,  $\pi/4$ DQPSK, 8DPSK

Frequency .....: From 2402MHz to 2480MHz

Ratings .....: Earphone: DC 3.7V, 50mAh From battery and DC 5V From charging box  
Charging box: 3.7V, 300mAh From battery and 5V  $\equiv$  1.0A From Type-C Port

Result .....: PASS

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## TEST REPORT

Equipment under Test : OWS Earphone

Model /Type : LB-OWS-AE-D1

Listed Models : N/A

**Applicant** : **Shenzhen Ruimingda Electronic Communication Co., Ltd.**

**Address** : Room 703, Building 1, No. 17, Hongtao Road, Qingshuihe Street, Luohu District, Shenzhen, China

**Manufacturer** : **Guangdong Dasen Electronic Technology Co., Ltd.**

**Address** : No. 102, Building 1, Room 34, Yangwu Baoyuan Road, Qizhong Town, Dongguan City, Guangdong Province, China

|                     |             |
|---------------------|-------------|
| <b>Test Result:</b> | <b>PASS</b> |
|---------------------|-------------|

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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# **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

## 2 SUMMARY

### 2.1 General Remarks

|                                |   |               |
|--------------------------------|---|---------------|
| Date of receipt of test sample | : | Jul. 28, 2025 |
| Testing commenced on           | : | Jul. 28, 2025 |
| Testing concluded on           | : | Jul. 31, 2025 |

### 2.2 Product Description

|                       |                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:         | OWS Earphone                                                                                                                              |
| Model/Type reference: | LB-OWS-AE-D1                                                                                                                              |
| Power supply:         | Earphone: DC 3.7V, 50mAh From battery and DC 5V From charging box<br>Charging box: 3.7V, 300mAh From battery and 5V 1.0A From Type-C Port |
| Hardware version:     | V1.0                                                                                                                                      |
| Software version:     | V1.0                                                                                                                                      |
| Testing sample ID:    | CTA250728008-1# (Engineer sample)<br>CTA250728008-2# (Normal sample)                                                                      |
| <b>Bluetooth :</b>    |                                                                                                                                           |
| Supported Type:       | Bluetooth BR/EDR                                                                                                                          |
| Modulation:           | GFSK, $\pi/4$ DQPSK, 8DPSK                                                                                                                |
| Operation frequency:  | 2402MHz~2480MHz                                                                                                                           |
| Channel number:       | 79                                                                                                                                        |
| Channel separation:   | 1MHz                                                                                                                                      |
| Antenna type:         | Ceramic antenna                                                                                                                           |
| Antenna gain:         | 1.66 dBi                                                                                                                                  |

### 2.3 Equipment Under Test

#### Power supply system utilised

Refer to section 2.2

### 2.4 Short description of the Equipment under Test (EUT)

This is a OWS Earphone.

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

| Test Software Version | Tools software(bt_tool_v1.1.2) |         |          |
|-----------------------|--------------------------------|---------|----------|
| Frequency             | 2402 MHz                       | 2441MHz | 2480 MHz |
| GFSK                  | 3                              | 3       | 3        |
| $\pi/4$ -DQPSK        | 3                              | 3       | 3        |
| 8-DPSK                | 3                              | 3       | 3        |

## 2.5 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

|                                                                |                                                                     |
|----------------------------------------------------------------|---------------------------------------------------------------------|
| ● Adapter information<br>(Auxiliary test supplied by test Lab) | Model: EP-TA20CBC<br>Input: AC 100-240V 50/60Hz<br>Output: DC 5V 2A |
|----------------------------------------------------------------|---------------------------------------------------------------------|

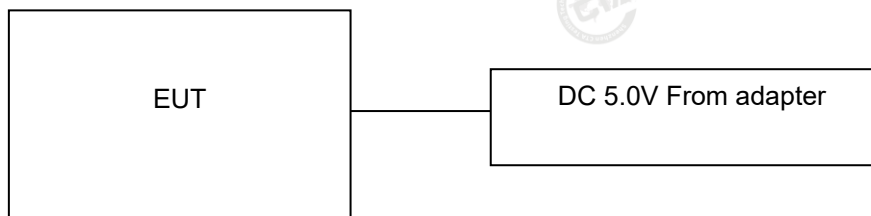
## 2.6 EUT operation mode

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 were selected to test.

### Operation Frequency:

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

## 2.7 Block Diagram of Test Setup



## 2.8 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.

## 2.9 Modifications

No modifications were implemented to meet testing criteria.



### 3 TEST ENVIRONMENT

#### 3.1 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.

**A2LA-Lab Cert. No.: 6534.01**

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

**ISED#: 27890 CAB identifier: CN0127**

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

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

Radiated Emission:

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

AC Power Conducted Emission:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 25 ° C       |
|                       |              |
| Humidity:             | 46 %         |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

Conducted testing:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 25 ° C       |
|                       |              |
| Humidity:             | 44 %         |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

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### 3.4 Summary of measurement results

| Test Specification clause | Test case                                          | Test Mode                 | Test Channel                                                                                                                            | Recorded In Report        |                                                                                                                                         | Test result |
|---------------------------|----------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------|
| §15.247(a)(1)             | Carrier Frequency separation                       | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Middle                                                                                              | Compliant   |
| §15.247(a)(1)             | Number of Hopping channels                         | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Full                                                                                                | GFSK                      | <input checked="" type="checkbox"/> Full                                                                                                | Compliant   |
| §15.247(a)(1)             | Time of Occupancy (dwell time)                     | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Middle                                                                                              | Compliant   |
| §15.247(a)(1)             | Spectrum bandwidth of a FHSS system 20dB bandwidth | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | Compliant   |
| §15.247(b)(1)             | Maximum output peak power                          | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | Compliant   |
| §15.247(d)                | Band edge compliance conducted                     | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Highest                                               | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Highest                                               | Compliant   |
| §15.205                   | Band edge compliance radiated                      | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Highest                                               | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Highest                                               | Compliant   |
| §15.247(d)                | TX spurious emissions conducted                    | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | Compliant   |
| §15.247(d)                | TX spurious emissions radiated                     | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | GFSK                      | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | Compliant   |
| §15.209(a)                | TX spurious Emissions radiated Below 1GHz          | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | GFSK                      | <input checked="" type="checkbox"/> Middle                                                                                              | Compliant   |
| §15.107(a)<br>§15.207     | Conducted Emissions 9KHz-30 MHz                    | GFSK<br>Π/4DQPSK<br>8DPSK | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | GFSK                      | <input checked="" type="checkbox"/> Middle                                                                                              | Compliant   |

Remark:

1. The measurement uncertainty is not included in the test result.
2. We tested all test mode and recorded worst case in report
3. RF Conducted test Offset= cable loss, For conducted spurious emission test, cable loss is the maximum value in the range of test.



### 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)   |
| 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)   |
| Time                                     | /           | ±2%                     | (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

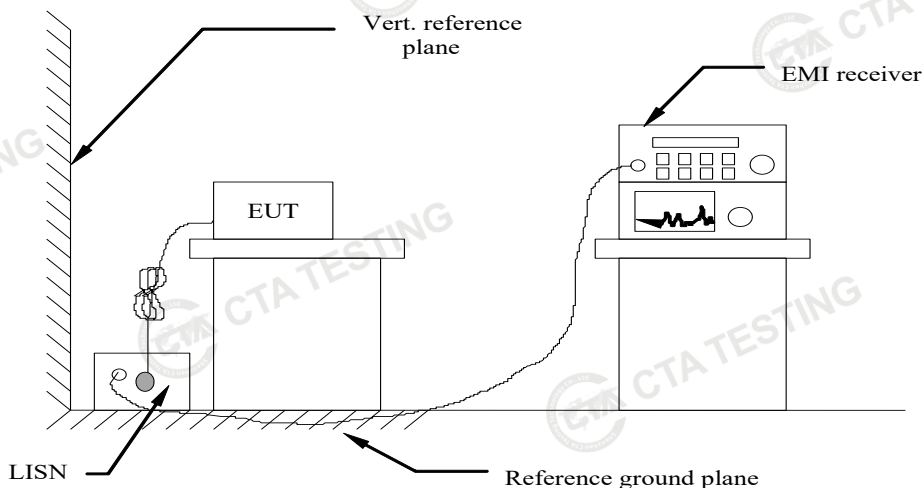
| Test Equipment                 | Manufacturer   | Model No.       | Equipment No. | Calibration Date | Calibration Due Date |
|--------------------------------|----------------|-----------------|---------------|------------------|----------------------|
| LISN                           | R&S            | ENV216          | CTA-308       | 2024/08/03       | 2025/08/02           |
| LISN                           | R&S            | ENV216          | CTA-314       | 2024/08/03       | 2025/08/02           |
| EMI Test Receiver              | R&S            | ESPI            | CTA-307       | 2024/08/03       | 2025/08/02           |
| EMI Test Receiver              | R&S            | ESCI            | CTA-306       | 2024/08/03       | 2025/08/02           |
| Spectrum Analyzer              | Agilent        | N9020A          | CTA-301       | 2024/08/03       | 2025/08/02           |
| Spectrum Analyzer              | R&S            | FSU             | CTA-337       | 2024/08/03       | 2025/08/02           |
| Vector Signal generator        | Agilent        | N5182A          | CTA-305       | 2024/08/03       | 2025/08/02           |
| Analog Signal Generator        | R&S            | SML03           | CTA-304       | 2024/08/03       | 2025/08/02           |
| Universal Radio Communication  | CMW500         | R&S             | CTA-302       | 2024/08/03       | 2025/08/02           |
| Temperature and humidity meter | Chigo          | ZG-7020         | CTA-326       | 2024/08/03       | 2025/08/02           |
| Ultra-Broadband Antenna        | Schwarzbeck    | VULB9163        | CTA-310       | 2023/10/17       | 2026/10/16           |
| Horn Antenna                   | Schwarzbeck    | BBHA 9120D      | CTA-309       | 2023/10/13       | 2026/10/12           |
| Loop Antenna                   | Zhinan         | ZN30900C        | CTA-311       | 2023/10/17       | 2026/10/16           |
| Broadband Horn Antenna         | A-INFOMW       | LB-180500H-2.4F | CTA-336       | 2023/09/13       | 2026/09/12           |
| Amplifier                      | Schwarzbeck    | BBV 9745        | CTA-312       | 2024/08/03       | 2025/08/02           |
| Amplifier                      | Taiwan chengyi | EMC051845B      | CTA-313       | 2024/08/03       | 2025/08/02           |
| Directional coupler            | NARDA          | 4226-10         | CTA-303       | 2024/08/03       | 2025/08/02           |
| High-Pass Filter               | XingBo         | XBLBQ-GTA18     | CTA-402       | 2024/08/03       | 2025/08/02           |
| High-Pass Filter               | XingBo         | XBLBQ-GTA27     | CTA-403       | 2024/08/03       | 2025/08/02           |
| Automated filter bank          | Tonscend       | JS0806-F        | CTA-404       | 2024/08/03       | 2025/08/02           |
| Power Sensor                   | Agilent        | U2021XA         | CTA-405       | 2024/08/03       | 2025/08/02           |
| Amplifier                      | Schwarzbeck    | BBV9719         | CTA-406       | 2024/08/03       | 2025/08/02           |
| Spectrum analyzer              | R&S            | FSV40-N         | CTA-344       | 2025/05/17       | 2026/05/16           |
| Power Meter                    | R&S            | NRVS            | CTA-354       | 2024/08/03       | 2025/08/02           |

| 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                  |

## 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 :

| 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 RESULTS

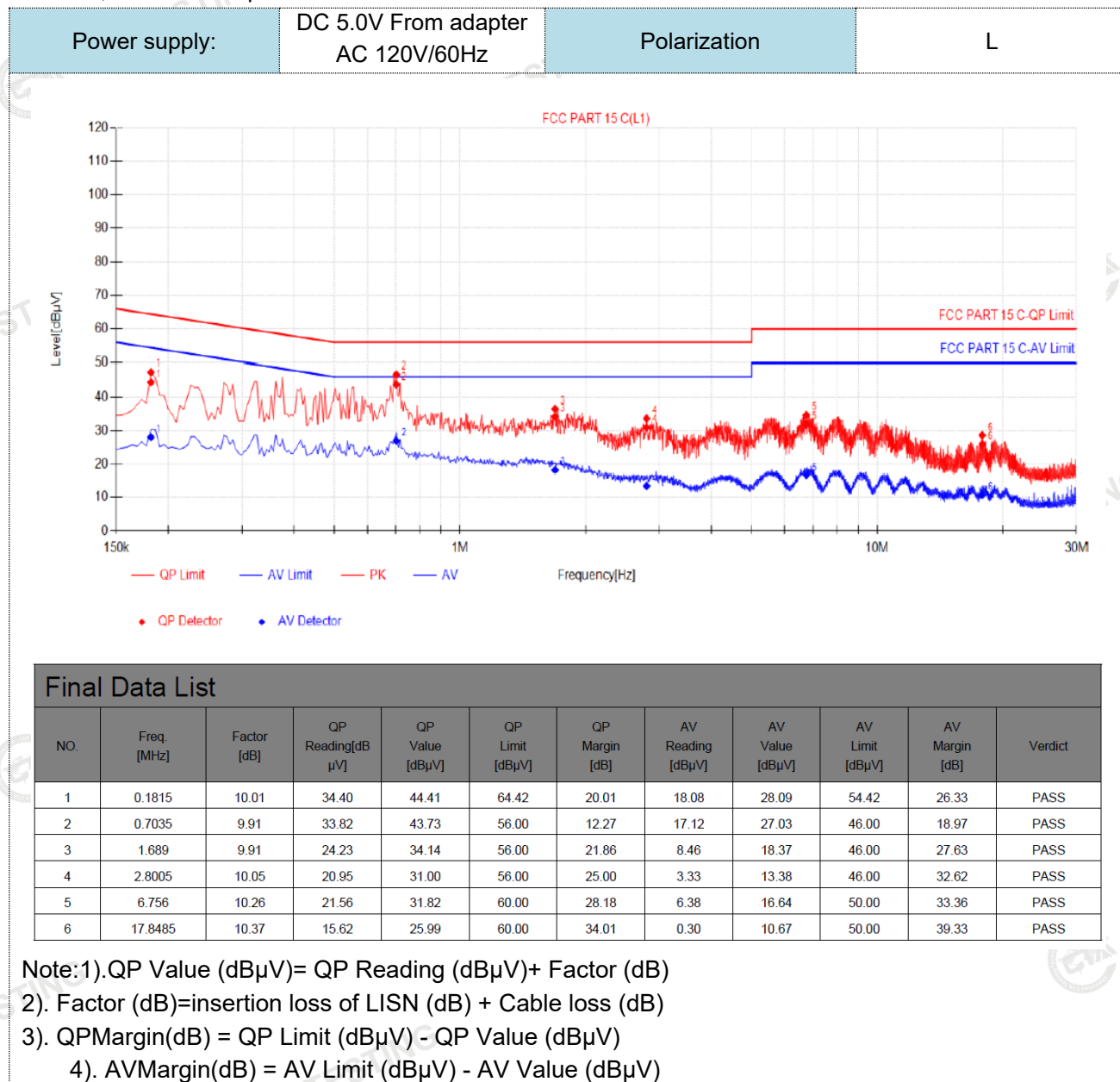
Remark:

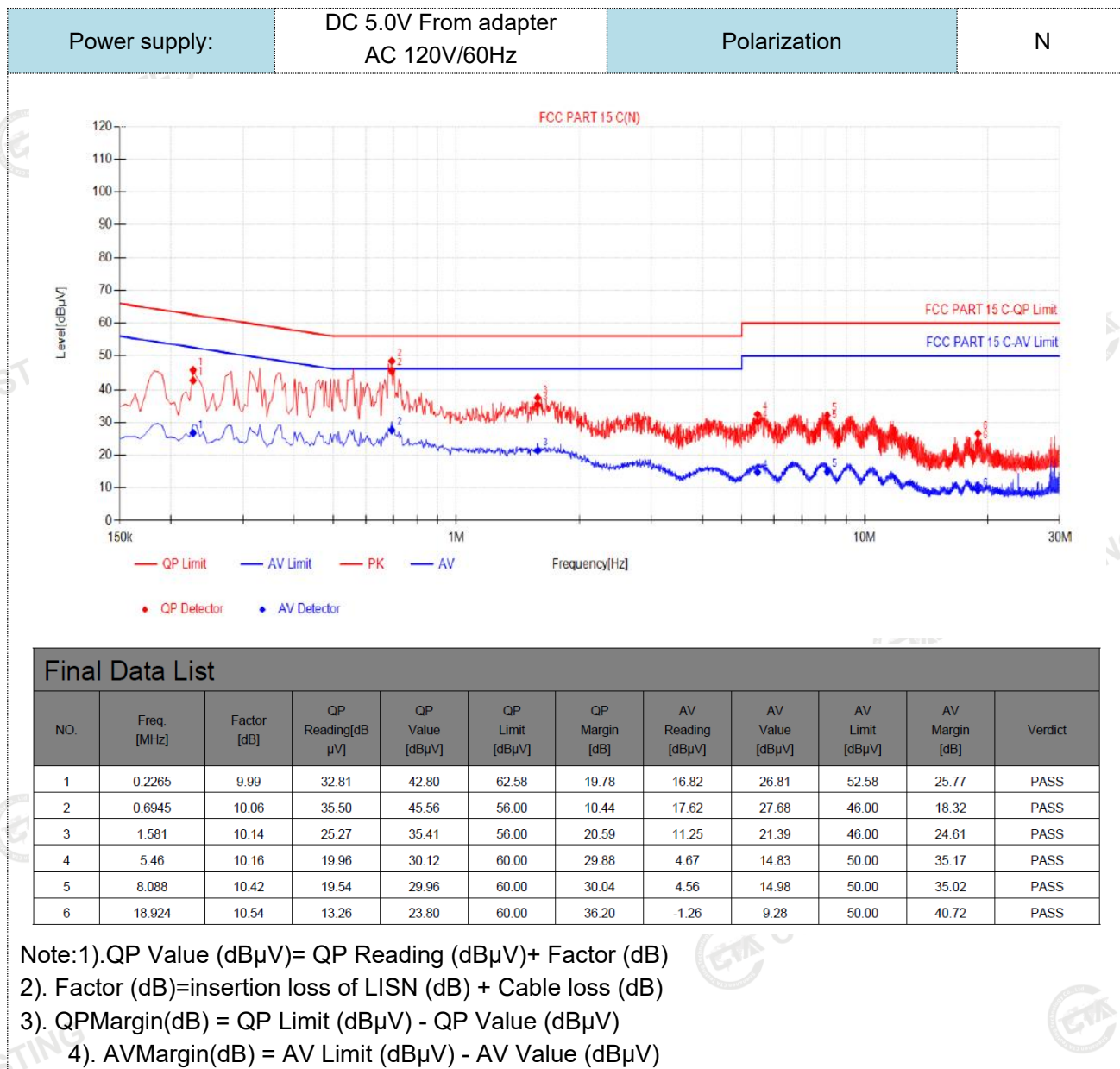
1. All modes of GFSK,  $\pi/4$  DQPSK and 8DPSK were test at Low, Middle, and High channel; only the worst result of GFSK Middle Channel was reported as below:

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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:



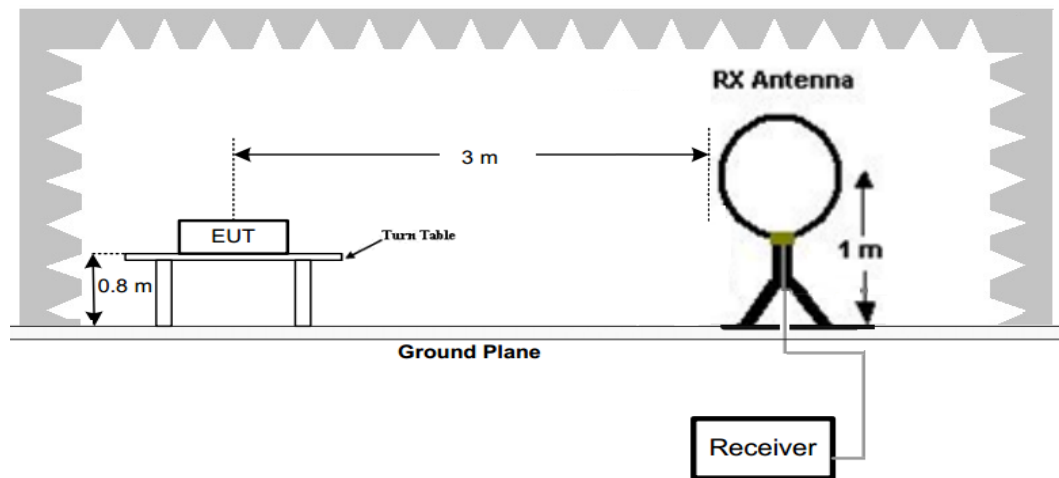




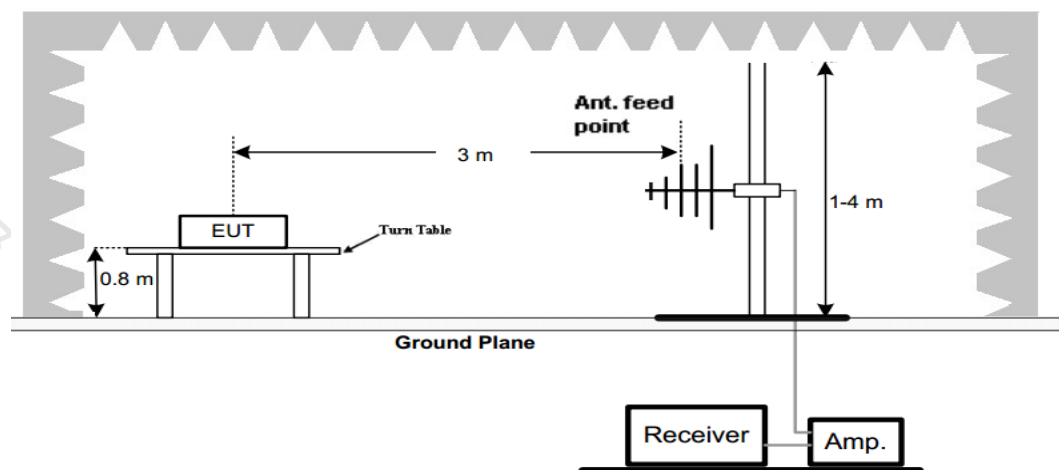
## 4.2 Radiated Emission

### TEST CONFIGURATION

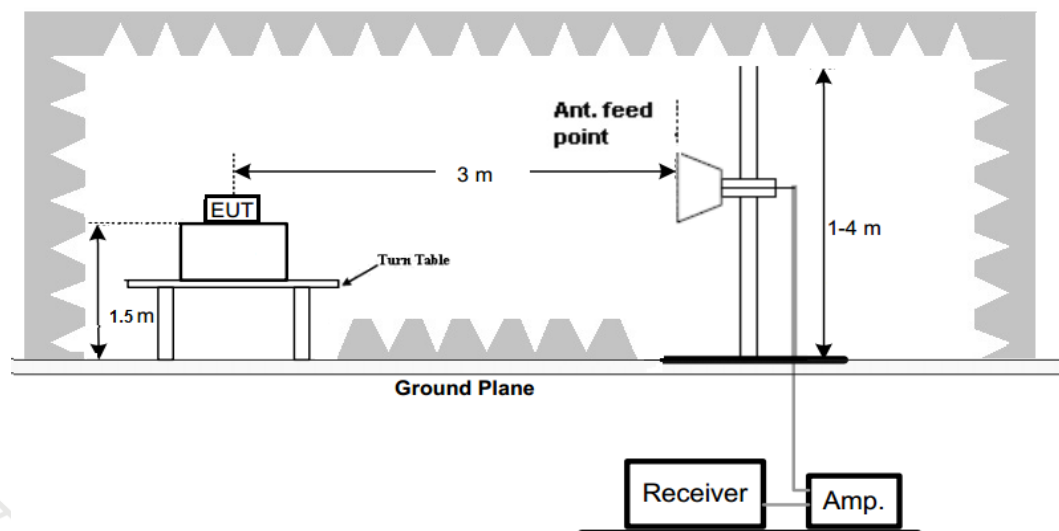
Frequency range 9 KHz – 30MHz



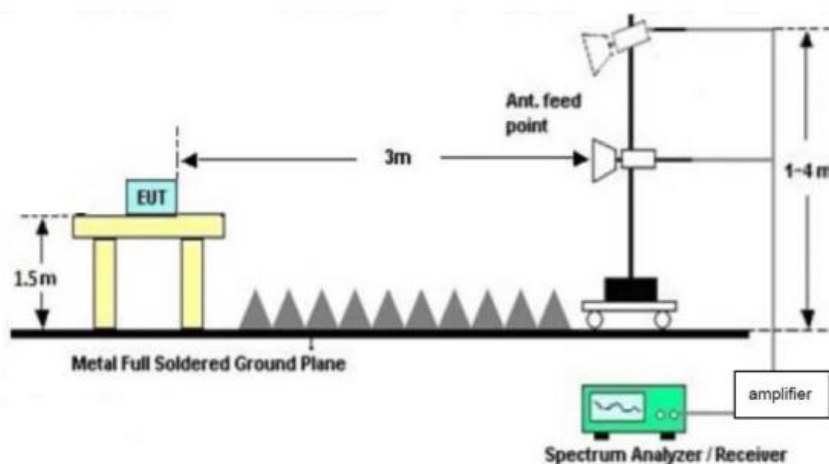
Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz







### 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.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 9KHz to 25GHz.
6. 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 Antenna               | 1             |

7. 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       |
| 1GHz-40GHz           | Peak Value: RBW=1MHz/VBW=3MHz,<br>Sweep time=Auto<br>Average Value: RBW=1MHz/VBW=10Hz,<br>Sweep time=Auto | Peak     |

### 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:

$$FS = RA + AF + CL - AG$$

|                           |                                            |
|---------------------------|--------------------------------------------|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude    | AG = Amplifier Gain                        |
| AF = Antenna Factor       |                                            |

$$\text{Transd}=AF +CL-AG$$

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**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 the 100kHz 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                 | $20\log(2400/F(\text{KHz}))+40\log(300/3)$ | $2400/F(\text{KHz})$  |
| 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                   |

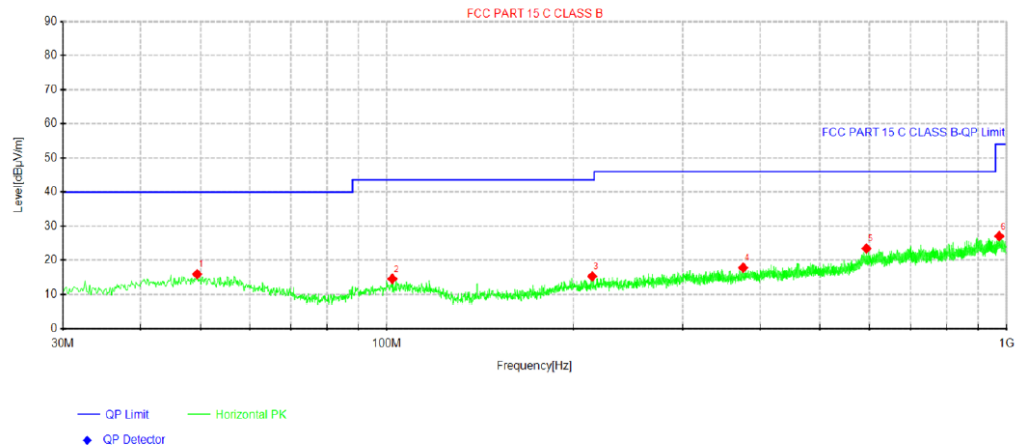
**TEST RESULTS**

Remark:

1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. We measured Radiated Emission at GFSK,  $\pi/4$  DQPSK and 8DPSK mode from 9 KHz to 25GHz and recorded worst case at GFSK DH5 mode.
3. For below 1GHz testing recorded worst at GFSK DH5 middle channel.
4. 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

## Horizontal



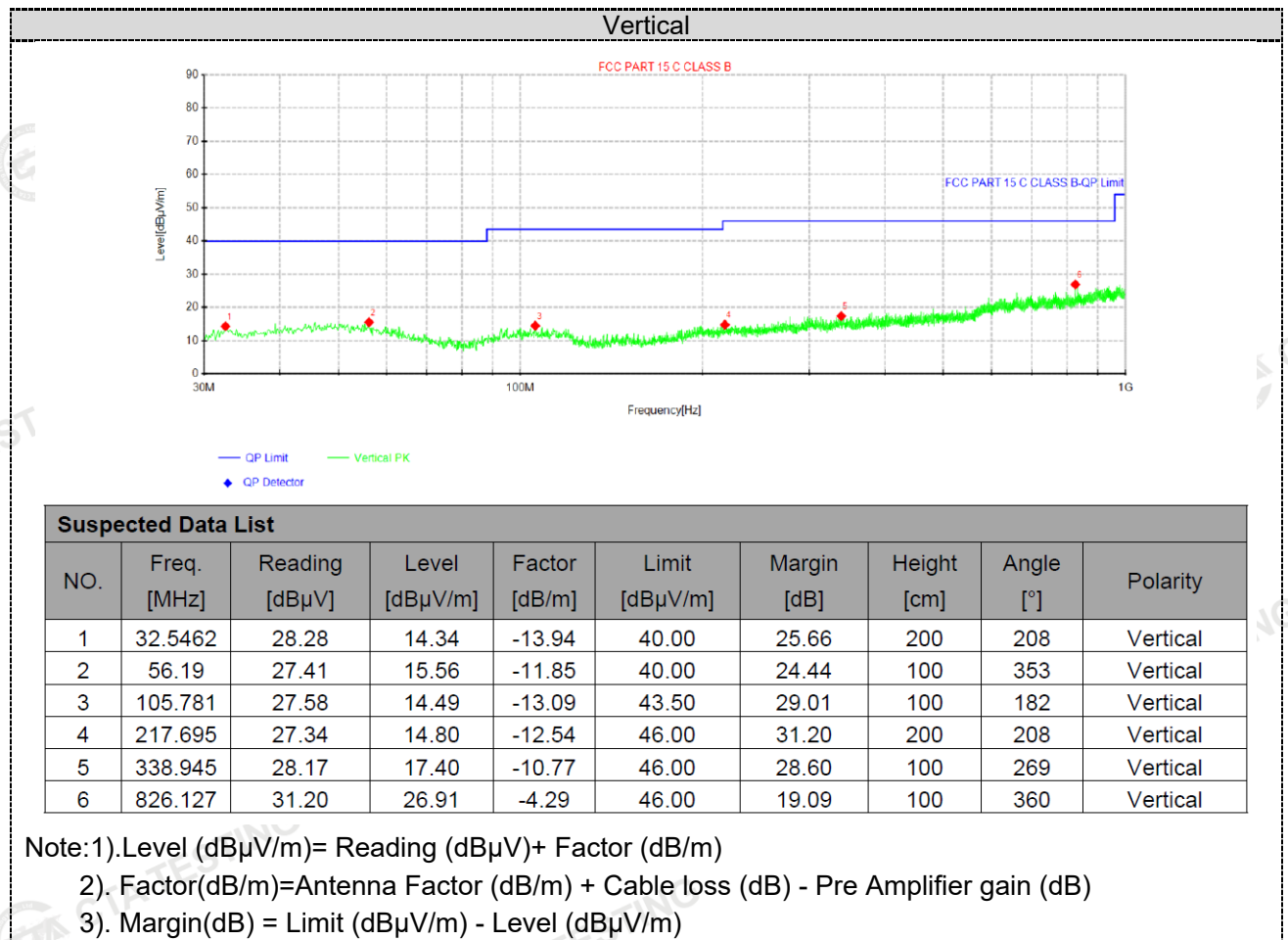
Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|------------|
| 1   | 49.4        | 27.09          | 15.91          | -11.18        | 40.00          | 24.09       | 200         | 1         | Horizontal |
| 2   | 102.022     | 27.52          | 14.54          | -12.98        | 43.50          | 28.96       | 100         | 351       | Horizontal |
| 3   | 214.421     | 27.87          | 15.25          | -12.62        | 43.50          | 28.25       | 100         | 325       | Horizontal |
| 4   | 375.683     | 28.26          | 17.82          | -10.44        | 46.00          | 28.18       | 200         | 0         | Horizontal |
| 5   | 594.055     | 29.62          | 23.44          | -6.18         | 46.00          | 22.56       | 100         | 80        | Horizontal |
| 6   | 973.203     | 28.92          | 27.04          | -1.88         | 54.00          | 26.96       | 100         | 167       | Horizontal |

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 (dBμV/m) - Level (dBμV/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)**

| Frequency(MHz): |                         |    | 2402           |             | Polarity:        |                       | 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         | 62.33                   | PK | 74             | 11.67       | 66.60            | 32.33                 | 5.12              | 41.72              | -4.27                    |
| 4804.00         | 45.04                   | AV | 54             | 8.96        | 49.31            | 32.33                 | 5.12              | 41.72              | -4.27                    |
| 7206.00         | 53.86                   | PK | 74             | 20.14       | 54.38            | 36.6                  | 6.49              | 43.61              | -0.52                    |
| 7206.00         | 43.47                   | AV | 54             | 10.53       | 43.99            | 36.6                  | 6.49              | 43.61              | -0.52                    |

| Frequency(MHz): |                         |    | 2402           |             | Polarity:        |                       | VERTICAL          |                    |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| 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         | 60.46                   | PK | 74             | 13.54       | 64.73            | 32.33                 | 5.12              | 41.72              | -4.27                    |
| 4804.00         | 43.35                   | AV | 54             | 10.65       | 47.62            | 32.33                 | 5.12              | 41.72              | -4.27                    |
| 7206.00         | 52.25                   | PK | 74             | 21.75       | 52.77            | 36.6                  | 6.49              | 43.61              | -0.52                    |
| 7206.00         | 41.70                   | AV | 54             | 12.30       | 42.22            | 36.6                  | 6.49              | 43.61              | -0.52                    |

| Frequency(MHz): |                         |    | 2441           |             | Polarity:        |                       | 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) |
| 4882.00         | 61.76                   | PK | 74             | 12.24       | 65.64            | 32.6                  | 5.34              | 41.82              | -3.88                    |
| 4882.00         | 44.32                   | AV | 54             | 9.68        | 48.20            | 32.6                  | 5.34              | 41.82              | -3.88                    |
| 7323.00         | 53.23                   | PK | 74             | 20.77       | 53.34            | 36.8                  | 6.81              | 43.72              | -0.11                    |
| 7323.00         | 42.94                   | AV | 54             | 11.06       | 43.05            | 36.8                  | 6.81              | 43.72              | -0.11                    |

| Frequency(MHz): |                         |    | 2441           |             | Polarity:        |                       | VERTICAL          |                    |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| 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) |
| 4882.00         | 60.10                   | PK | 74             | 13.90       | 63.98            | 32.6                  | 5.34              | 41.82              | -3.88                    |
| 4882.00         | 42.41                   | AV | 54             | 11.59       | 46.29            | 32.6                  | 5.34              | 41.82              | -3.88                    |
| 7323.00         | 51.56                   | PK | 74             | 22.44       | 51.67            | 36.8                  | 6.81              | 43.72              | -0.11                    |
| 7323.00         | 41.13                   | AV | 54             | 12.87       | 41.24            | 36.8                  | 6.81              | 43.72              | -0.11                    |

| Frequency(MHz): |                         |    | 2480           |             | Polarity:        |                       | 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) |
| 4960.00         | 61.08                   | PK | 74             | 12.92       | 64.16            | 32.73                 | 5.66              | 41.47              | -3.08                    |
| 4960.00         | 43.65                   | AV | 54             | 10.35       | 46.73            | 32.73                 | 5.66              | 41.47              | -3.08                    |
| 7440.00         | 52.60                   | PK | 74             | 21.40       | 52.15            | 37.04                 | 7.25              | 43.84              | 0.45                     |
| 7440.00         | 42.12                   | AV | 54             | 11.88       | 41.67            | 37.04                 | 7.25              | 43.84              | 0.45                     |

| Frequency(MHz): |                         |    | 2480           |             | Polarity:        |                       | VERTICAL          |                    |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| 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) |
| 4960.00         | 59.40                   | PK | 74             | 14.60       | 62.48            | 32.73                 | 5.66              | 41.47              | -3.08                    |
| 4960.00         | 42.02                   | AV | 54             | 11.98       | 45.10            | 32.73                 | 5.66              | 41.47              | -3.08                    |
| 7440.00         | 50.74                   | PK | 74             | 23.26       | 50.29            | 37.04                 | 7.25              | 43.84              | 0.45                     |
| 7440.00         | 40.21                   | AV | 54             | 13.79       | 39.76            | 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,  $\pi/4$  DQPSK and 8DPSK all have been tested, only worse case GFSK is reported.

**GFSK**

| Frequency(MHz): |                         |    | 2402           |             | Polarity:        |                       | 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) |
| 2390.00         | 62.03                   | PK | 74             | 11.97       | 72.45            | 27.42                 | 4.31              | 42.15              | -10.42                   |
| 2390.00         | 43.77                   | AV | 54             | 10.23       | 54.19            | 27.42                 | 4.31              | 42.15              | -10.42                   |
| Frequency(MHz): |                         |    | 2402           |             | Polarity:        |                       | VERTICAL          |                    |                          |
| 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) |
| 2390.00         | 60.03                   | PK | 74             | 13.97       | 70.45            | 27.42                 | 4.31              | 42.15              | -10.42                   |
| 2390.00         | 41.71                   | AV | 54             | 12.29       | 52.13            | 27.42                 | 4.31              | 42.15              | -10.42                   |
| Frequency(MHz): |                         |    | 2480           |             | Polarity:        |                       | 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) |
| 2483.50         | 61.35                   | PK | 74             | 12.65       | 71.46            | 27.7                  | 4.47              | 42.28              | -10.11                   |
| 2483.50         | 42.83                   | AV | 54             | 11.17       | 52.94            | 27.7                  | 4.47              | 42.28              | -10.11                   |
| Frequency(MHz): |                         |    | 2480           |             | Polarity:        |                       | VERTICAL          |                    |                          |
| 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) |
| 2483.50         | 59.40                   | PK | 74             | 14.60       | 69.51            | 27.7                  | 4.47              | 42.28              | -10.11                   |
| 2483.50         | 41.17                   | AV | 54             | 12.83       | 51.28            | 27.7                  | 4.47              | 42.28              | -10.11                   |

## 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.



### 4.3 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 the powersensor.

#### Test Configuration



#### Test Results

Please refer to Appendix RF Test Data for BT

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

#### 4.4 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.

##### Test Configuration



##### Test Results

Please refer to Appendix RF Test Data for BT

#### 4.5 Frequency Separation

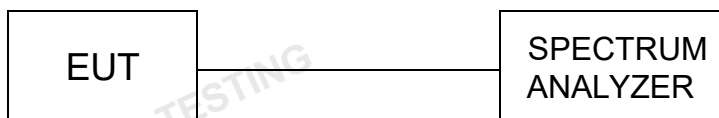
##### LIMIT

According to 15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the  $2/3 \times 20\text{dB}$  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 300 KHz VBW.

##### TEST CONFIGURATION



##### TEST RESULTS

Please refer to Appendix RF Test Data for BT

Note:

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

## 4.6 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 with 300 KHz RBW and 300 KHz VBW.

### Test Configuration



### Test Results

Please refer to Appendix RF Test Data for BT

## 4.7 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 1MHz VBW, Span 0Hz.

### Test Configuration



### Test Results

Please refer to Appendix RF Test Data for BT

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

## 4.8 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.

### 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 settings 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 band edge measurement data.

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

Please refer to Appendix RF Test Data for BT

## 4.9 Pseudorandom Frequency Hopping Sequence

### TEST APPLICABLE

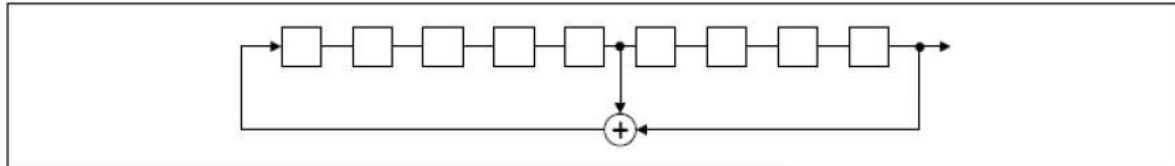
#### **For 47 CFR Part 15C section 15.247 (a) (1) requirement:**

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping 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 hop-ping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

#### **EUT Pseudorandom Frequency Hopping Sequence Requirement**

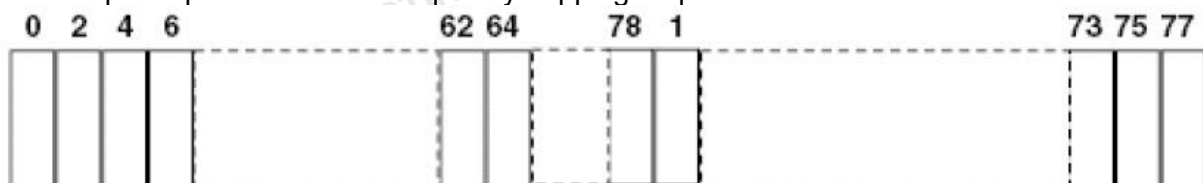
The pseudorandom frequency hopping sequence may be generated in a nine-stage shift register whose 5<sup>th</sup> and 9<sup>th</sup> stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive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

- Number of shift register stages:9
- Length of pseudo-random sequence:29-1=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.



## 4.10 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 (c), 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 maximum gain of antenna was 1.66 dBi

Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen CTA Testing Technology Co., Ltd. does not assume any responsibility.

#### 4.11 On Time and Duty Cycle

##### Standard Applicable

None; for reporting purpose only.

##### TEST CONFIGURATION



##### Test Procedures

- 1). Set the Centre frequency of the spectrum analyzer to the transmitting frequency;
- 2). Set the span=0MHz, RBW=8MHz, VBW=8MHz, Sweep time=5ms;
- 3). Detector = peak;
- 4). Trace mode = Single hold.

Please refer to Appendix RF Test Data for BT

## **5 Test Setup Photos of the EUT**

Please refer to separated files for Test Setup Photos of the EUT.

## **6 External and Internal Photos of the EUT**

Please refer to separated files for External Photos & Internal Photos of the EUT.

.....**End of Report**.....