

|                                                             |                               |
|-------------------------------------------------------------|-------------------------------|
| Product Name: Tablet                                        | Report No: ITEZA202300349RF2  |
| Product Model: R08, R08 Pro, R08S, R08T, R08 Max, R08 Ultra | Security Classification: Open |
| Version: V1.0                                               | Total Page: 79                |

## TIRT Testing Report

|                   |                   |                  |                                                                                       |
|-------------------|-------------------|------------------|---------------------------------------------------------------------------------------|
| Prepared By:      | Checked By:       | Approved By:     |  |
| Aaron Long        | Stone Tang        | Joky Wang        |                                                                                       |
| <i>Aaron Long</i> | <i>Stone Tang</i> | <i>Joky Wang</i> |                                                                                       |

# FCC Radio Test Report

## FCC ID: 2AX4YR08

This report concerns: Original Grant

**Equipment** : Tablet  
**Brand Name** : DOOGEE  
**Test Model** : R08, R08 Pro, R08S, R08T, R08 Max, R08 Ultra  
**Applicant** : Shenzhen DOOGEE Hengtong Technology CO.,LTD  
**Address** : B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China  
**Manufacturer** : Shenzhen DOOGEE Hengtong Technology CO.,LTD  
**Address** : B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China  
**Date of Receipt** : Nov. 07, 2023  
**Date of Test** : Nov. 07, 2023~ Nov. 15, 2023  
**Issued Date** : Nov. 20, 2023  
**Report Version** : V1.0  
**Test Sample** : Engineering Sample No.: 1000021948  
**Standard(s)** : FCC CFR Title 47, Part 15, Subpart C  
FCC KDB 558074 D01 15.247 Meas Guidance v05r02  
ANSI C63.10-2013

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.

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**REPORT ISSUED HISTORY**

| Report No.        | Version | Description      | Issued Date | Note  |
|-------------------|---------|------------------|-------------|-------|
| ITEZA202300349RF2 | V1.0    | Original Report. | 2023.11.20  | Valid |

## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| FCC CFR Title 47, Part 15, Subpart C |                                   |                                        |          |         |
|--------------------------------------|-----------------------------------|----------------------------------------|----------|---------|
| Standard(s) Section                  | Test Item                         | Test Result                            | Judgment | Remark  |
| 15.207                               | AC Power Line Conducted Emissions | APPENDIX A                             | PASS     | -----   |
| 15.247(d)<br>15.205(a)<br>15.209(a)  | Radiated Emission                 | APPENDIX B<br>APPENDIX C<br>APPENDIX D | PASS     | -----   |
| 15.247<br>(a)(1)(iii)                | Number of Hopping Frequency       | APPENDIX E                             | PASS     | -----   |
| 15.247<br>(a)(1)(iii)                | Average Time of Occupancy         | APPENDIX F                             | PASS     | -----   |
| 15.247(a)(1)                         | Hopping Channel Separation        | APPENDIX G                             | PASS     | -----   |
| 15.247(a)(1)                         | Bandwidth                         | APPENDIX H                             | PASS     | -----   |
| 15.247(a)(1)                         | Maximum Output Power              | APPENDIX I                             | PASS     | -----   |
| 15.247(d)                            | Conducted Spurious Emission       | APPENDIX J                             | PASS     | -----   |
| 15.203                               | Antenna Requirement               | -----                                  | PASS     | Note(2) |

Note:

- (1) "N/A" denotes test is not applicable in this test report
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

## 1.1 TEST FACILITY

|                                         |                                                                                                                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company:                                | Beijing TIRT Technology Service Co.,Ltd Shenzhen                                                                                                                          |
| Address:                                | 104 Building C, Xinmingsheng Industrial Park No.132, Zhangge Old Village East Zone, Zhangge Community, Fucheng Street, Longhua District, Shenzhen, Guangdong, P. R. China |
| CNAS Registration Number:               | CNAS L14158                                                                                                                                                               |
| A2LA Registration Number:               | 6049.01                                                                                                                                                                   |
| FCC Accredited Lab. Designation Number: | CN1366                                                                                                                                                                    |
| FCC Test Firm Registration Number:      | 820690                                                                                                                                                                    |
| Telephone:                              | +86-0755-27087573                                                                                                                                                         |

## 1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))  
The BTL measurement uncertainty as below table:

| Uncertainty                                 |             |
|---------------------------------------------|-------------|
| Parameter                                   | Uncertainty |
| Occupied Channel Bandwidth                  | ±142.12 KHz |
| RF power conducted                          | ±0.74 dB    |
| RF power radiated                           | ±3.25dB     |
| Spurious emissions, conducted               | ±1.78dB     |
| Spurious emissions, radiated (30MHz~1GHz)   | ±4.6dB      |
| Spurious emissions, radiated (1GHz ~ 18GHz) | ±4.9dB      |
| Conduction Emissions(150kHz~30MHz)          | ±3.1 dB     |
| Humidity                                    | ±4.6%       |
| Temperature                                 | ±0.7°C      |
| Time                                        | ±1.25%      |

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

### 1.3 TEST ENVIRONMENT CONDITIONS

| Test Item                             | Temperature | Humidity | Test Voltage    | Tested By  |
|---------------------------------------|-------------|----------|-----------------|------------|
| AC Power Line Conducted Emissions     | 25.1°C      | 53%      | AC<br>120V/60Hz | Stone Tang |
| Radiated Emissions-9 kHz to 30 MHz    | 24.5°C      | 51%      | AC<br>120V/60Hz | Stone Tang |
| Radiated Emissions-30 MHz to 1000 MHz | 24.2°C      | 51%      | AC<br>120V/60Hz | Stone Tang |
| Radiated Emissions-Above 1000 MHz     | 26.0°C      | 51%      | AC<br>120V/60Hz | Stone Tang |
| Bandwidth                             | 25.0°C      | 65%      | AC<br>120V/60Hz | Stone Tang |
| Maximum Output Power                  | 24.9°C      | 60%      | AC<br>120V/60Hz | Stone Tang |
| Conducted Spurious Emission           | 25.1°C      | 58%      | AC<br>120V/60Hz | Stone Tang |
| Power Spectral Density                | 26.0°C      | 52%      | AC<br>120V/60Hz | Stone Tang |

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| Equipment               | Tablet                                              |
| Brand Name              | DOOGEE                                              |
| Test Model              | R08                                                 |
| Series Model            | R08, R08 Pro, R08S, R08T, R08 Max, R08 Ultra        |
| Model Difference(s)     | There is no difference except the name of the model |
| Software Version        | DOOGEE-R08-EEA-Android13.0-20231109                 |
| Hardware Version        | WT_P101_8788_BJ_MB_V0.1_20230920                    |
| Power Source            | DC voltage supplied from AC/DC adapter.             |
| Power Rating            | DC 3.8V from battery or DC 5V from adapter          |
| Operation Frequency     | 2402 MHz ~ 2480 MHz                                 |
| Modulation Type         | GFSK, $\pi/4$ -DQPSK, 8-DPSK                        |
| Bit Rate of Transmitter | 1Mbps, 2Mbps, 3Mbps                                 |
| Max. Output Power       | 3Mbps: -6.23dBm (0.000238W)                         |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

## 2. Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 00      | 2402            | 27      | 2429            | 54      | 2456            |
| 01      | 2403            | 28      | 2430            | 55      | 2457            |
| 02      | 2404            | 29      | 2431            | 56      | 2458            |
| 03      | 2405            | 30      | 2432            | 57      | 2459            |
| 04      | 2406            | 31      | 2433            | 58      | 2460            |
| 05      | 2407            | 32      | 2434            | 59      | 2461            |
| 06      | 2408            | 33      | 2435            | 60      | 2462            |
| 07      | 2409            | 34      | 2436            | 61      | 2463            |
| 08      | 2410            | 35      | 2437            | 62      | 2464            |
| 09      | 2411            | 36      | 2438            | 63      | 2465            |
| 10      | 2412            | 37      | 2439            | 64      | 2466            |
| 11      | 2413            | 38      | 2440            | 65      | 2467            |
| 12      | 2414            | 39      | 2441            | 66      | 2468            |
| 13      | 2415            | 40      | 2442            | 67      | 2469            |
| 14      | 2416            | 41      | 2443            | 68      | 2470            |
| 15      | 2417            | 42      | 2444            | 69      | 2471            |
| 16      | 2418            | 43      | 2445            | 70      | 2472            |
| 17      | 2419            | 44      | 2446            | 71      | 2473            |
| 18      | 2420            | 45      | 2447            | 72      | 2474            |
| 19      | 2421            | 46      | 2448            | 73      | 2475            |
| 20      | 2422            | 47      | 2449            | 74      | 2476            |
| 21      | 2423            | 48      | 2450            | 75      | 2477            |
| 22      | 2424            | 49      | 2451            | 76      | 2478            |
| 23      | 2425            | 50      | 2452            | 77      | 2479            |
| 24      | 2426            | 51      | 2453            | 78      | 2480            |
| 25      | 2427            | 52      | 2454            |         |                 |
| 26      | 2428            | 53      | 2455            |         |                 |

## 3. Table for Filed Antenna:

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-------|------------|--------------|-----------|------------|
| 1    | N/A   | PT3        | PIFA         | N/A       | 1.1        |

Note:

1. The antenna gain is provided by the manufacturer.
2. The antenna is for testing purposes only.

## 2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

| Pretest Mode | Description                    |
|--------------|--------------------------------|
| Mode 1       | TX Mode_1Mbps Channel 00/39/78 |
| Mode 2       | TX Mode_2Mbps Channel 00/39/78 |
| Mode 3       | TX Mode_3Mbps Channel 00/39/78 |

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

| AC power line conducted emissions test |                          |
|----------------------------------------|--------------------------|
| Final Test Mode                        | Description              |
| Mode 3                                 | TX Mode_3Mbps Channel 00 |

| Radiated emissions test - Below 1GHz |                          |
|--------------------------------------|--------------------------|
| Final Test Mode                      | Description              |
| Mode 3                               | TX Mode_3Mbps Channel 00 |

| Radiated emissions test - Above 1GHz |                                |
|--------------------------------------|--------------------------------|
| Final Test Mode                      | Description                    |
| Mode 1                               | TX Mode_1Mbps Channel 00/39/78 |
| Mode 3                               | TX Mode_3Mbps Channel 00/39/78 |

| Maximum Output Power |                                |
|----------------------|--------------------------------|
| Final Test Mode      | Description                    |
| Mode 1               | TX Mode_1Mbps Channel 00/39/78 |
| Mode 2               | TX Mode_2Mbps Channel 00/39/78 |
| Mode 3               | TX Mode_3Mbps Channel 00/39/78 |

| Other Conducted test |                                |
|----------------------|--------------------------------|
| Final Test Mode      | Description                    |
| Mode 1               | TX Mode_1Mbps Channel 00/39/78 |
| Mode 3               | TX Mode_3Mbps Channel 00/39/78 |

Note:

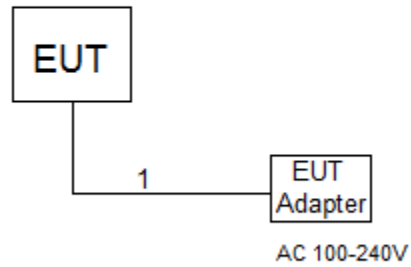
- (1) The measurements for Output Power were tested with DH1/3/5 during 1Mbps, 2Mbps and 3Mbps, the worst case were 1Mbps (DH5) and 3Mbps (DH5), only worst case were documented for other test items except Average Time of Occupancy.
- (2) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) This product has the mode of BT AFH, which was considered during testing. 800/20/X(X = 2 of DH1, X = 4 of DH3 or X = 6 of DH5) with 20, 10 or 6.67 hops per second in a channel, and then multiply 0.4\*20 (20 # of hopping). But this mode is not the worst case mode as duration of the packet is same, and this report only shows the worst case mode.
- (4) For AC power line conducted emissions and radiated spurious emissions below 1 GHz test, the 1Mbps Channel 78 are found to be the worst case and recorded.

## 2.3 PARAMETERS OF TEST SOFTWARE

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

| Test Software Version | DRTU_3.0 |         |         |
|-----------------------|----------|---------|---------|
| Frequency (MHz)       | 2402     | 2441    | 2480    |
| 1Mbps                 | default  | default | default |
| 2Mbps                 | default  | default | default |
| 3Mbps                 | default  | default | default |

## 2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



## 2.5 SUPPORT UNITS

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|------------|---------------|--------------|--------|
| 1    | N/A        | N/A           | N/A          | N/A    |

### 3. AC POWER LINE CONDUCTED EMISSIONS

#### 3.1 LIMIT

| Frequency of Emission (MHz) | Limit (dB $\mu$ V) |           |
|-----------------------------|--------------------|-----------|
|                             | Quasi-peak         | Average   |
| 0.15 - 0.5                  | 66 to 56*          | 56 to 46* |
| 0.5 - 5.0                   | 56                 | 46        |
| 5.0 - 30.0                  | 60                 | 50        |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

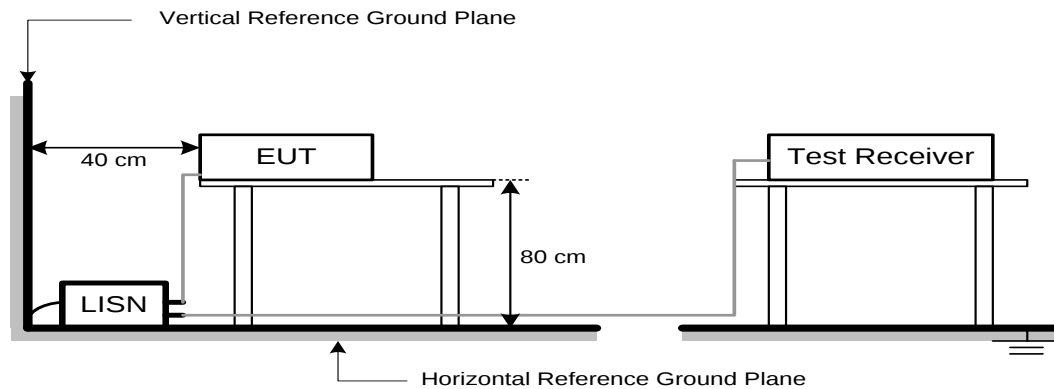
The following table is the setting of the receiver:

| Receiver Parameters | Setting  |
|---------------------|----------|
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

### 3.4 TEST SETUP



### 3.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting data or hopping on mode.

### 3.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』 . If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform in this case, a “\*\*” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.

## 4. RADIATED EMISSIONS

### 4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300                           |
| 0.490-1.705     | 24000/F(kHz)                      | 30                            |
| 1.705-30.0      | 30                                | 30                            |
| 30-88           | 100                               | 3                             |
| 88-216          | 150                               | 3                             |
| 216-960         | 200                               | 3                             |
| Above 960       | 500                               | 3                             |

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

| Frequency (MHz) | (dBuV/m at 3 m) |         |
|-----------------|-----------------|---------|
|                 | Peak            | Average |
| Above 1000      | 74              | 54      |

Note:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

## 4.2 TEST PROCEDURE

- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
- The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.  
(below 1 GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

| Spectrum Parameters    | Setting                         |
|------------------------|---------------------------------|
| Start ~ Stop Frequency | 9 kHz~150 kHz for RBW 200 Hz    |
| Start ~ Stop Frequency | 0.15 MHz~30 MHz for RBW 9 kHz   |
| Start ~ Stop Frequency | 30 MHz~1000 MHz for RBW 100 kHz |

| Spectrum Parameters                        | Setting                                                    |
|--------------------------------------------|------------------------------------------------------------|
| Start Frequency                            | 1000 MHz                                                   |
| Stop Frequency                             | 10th carrier harmonic                                      |
| RBW / VBW<br>(Emission in restricted band) | 1 MHz / 3 MHz for PK value<br>1 MHz / 1/T Hz for AVG value |

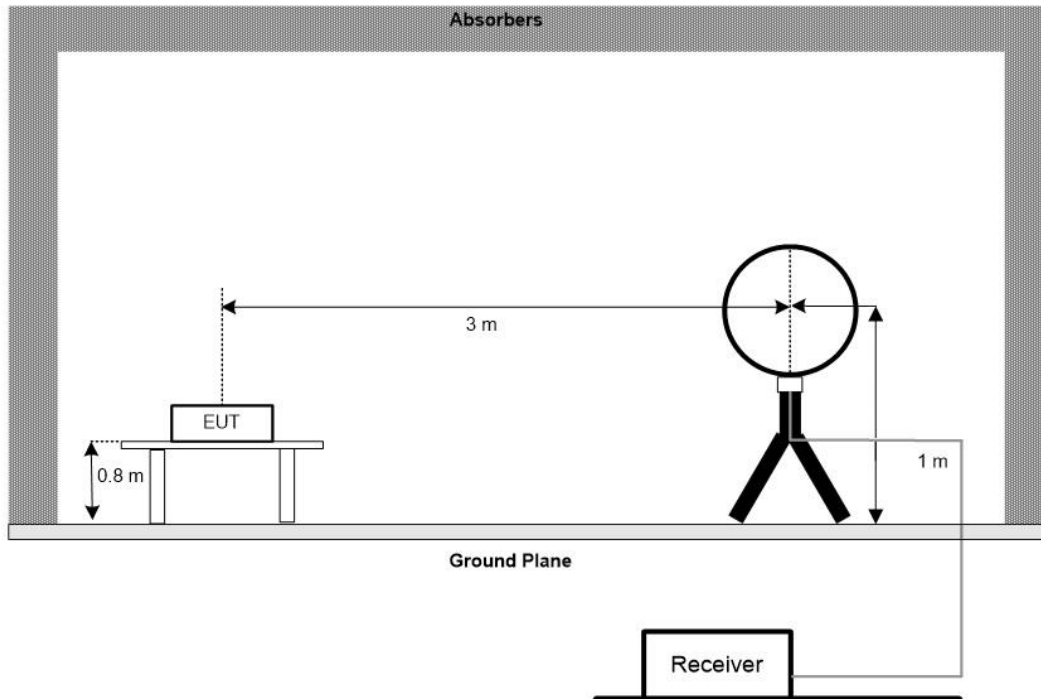
| Spectrum Parameters    | Setting                             |
|------------------------|-------------------------------------|
| Start ~ Stop Frequency | 9 kHz~90 kHz for PK/AVG detector    |
| Start ~ Stop Frequency | 90 kHz~110 kHz for QP detector      |
| Start ~ Stop Frequency | 110 kHz~490 kHz for PK/AVG detector |
| Start ~ Stop Frequency | 490 kHz~30 MHz for QP detector      |
| Start ~ Stop Frequency | 30 MHz~1000 MHz for QP detector     |
| Start ~ Stop Frequency | 1 GHz~26.5 GHz for PK/AVG detector  |

### 4.3 DEVIATION FROM TEST STANDARD

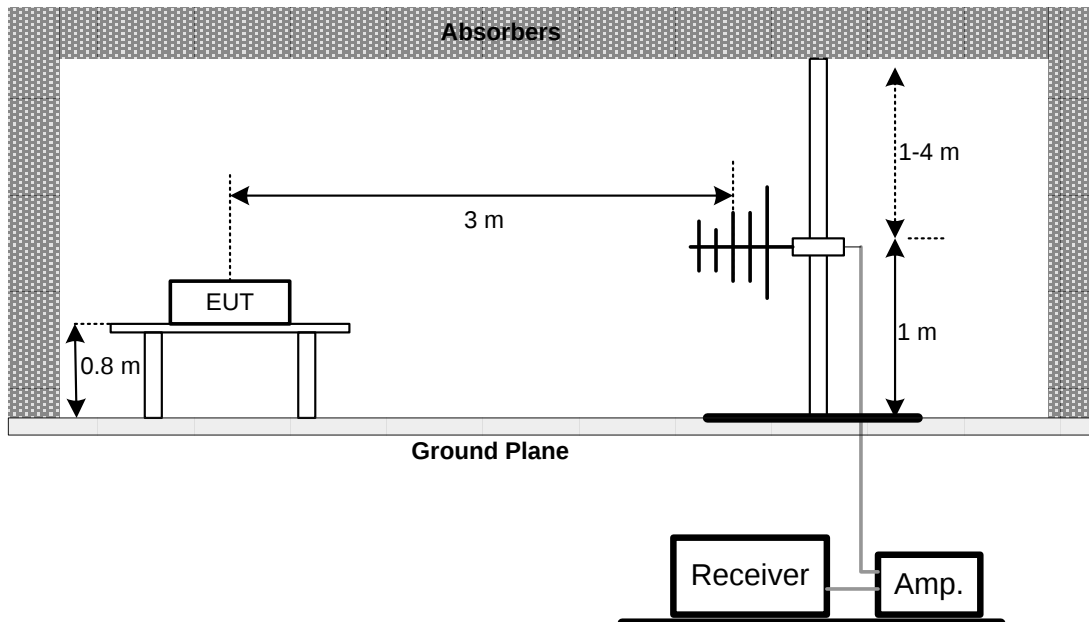
No deviation.

### 4.4 TEST SETUP

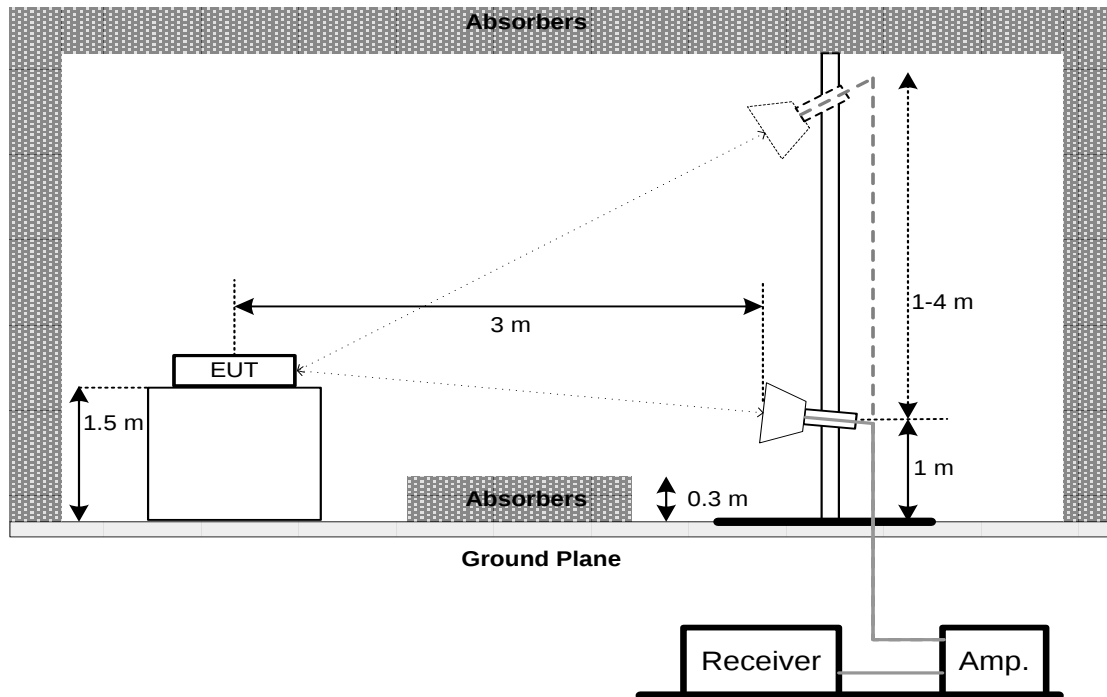
9 kHz to 30 MHz



30 MHz to 1 GHz



**Above 1 GHz**



**4.5 EUT OPERATING CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**4.6 TEST RESULTS - 9 kHz TO 30 MHz**

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

**4.7 TEST RESULTS - 30 MHz TO 1000 MHz**

Please refer to the APPENDIX C.

**4.8 TEST RESULTS - ABOVE 1000 MHz**

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 5. NUMBER OF HOPPING FREQUENCY

### 5.1 LIMIT

| Section               | Test Item                   | Limit |
|-----------------------|-----------------------------|-------|
| FCC 15.247(a)(1)(iii) | Number of Hopping Frequency | 15    |

### 5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

| Spectrum Parameters | Setting                     |
|---------------------|-----------------------------|
| Span Frequency      | > Operating Frequency Range |
| RBW                 | 100 kHz                     |
| VBW                 | 100 kHz                     |
| Detector            | Peak                        |
| Trace               | Max Hold                    |
| Sweep Time          | Auto                        |

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULTS

Please refer to the APPENDIX E.

## 6. AVERAGE TIME OF OCCUPANCY

### 6.1 LIMIT

| Section               | Test Item                 | Limit  |
|-----------------------|---------------------------|--------|
| FCC 15.247(a)(1)(iii) | Average Time of Occupancy | 0.4sec |

### 6.2 TEST PROCEDURE

- Set the EUT for DH1, DH3 and DH5 packet transmitting.
- Measure the maximum time duration of one single pulse.
- DH1 Packet permit maximum  $1600 / 79 / 2 = 10.12$  hops per second in each channel (1 time slot TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times  $10.12 \times 31.6 = 320$  within 31.6 seconds.
- DH3 Packet permit maximum  $1600 / 79 / 4 = 5.06$  hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times  $5.06 \times 31.6 = 160$  within 31.6 seconds.
- DH5 Packet permit maximum  $1600 / 79 / 6 = 3.37$  hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times  $3.37 \times 31.6 = 106.6$  within 31.6 seconds.
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

| Spectrum Parameters | Setting                                                           |
|---------------------|-------------------------------------------------------------------|
| Span Frequency      | 0 MHz                                                             |
| RBW                 | 1 MHz                                                             |
| VBW                 | 1 MHz                                                             |
| Detector            | Peak                                                              |
| Trace               | Max Hold                                                          |
| Sweep Time          | As necessary to capture the entire dwell time per hopping channel |

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.6 TEST RESULTS

Please refer to the APPENDIX F.

## 7. HOPPING CHANNEL SEPARATION

### 7.1 LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

### 7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

| Spectrum Parameters | Setting                                                   |
|---------------------|-----------------------------------------------------------|
| Span Frequency      | Wide enough to capture the peaks of two adjacent channels |
| RBW                 | 30 kHz                                                    |
| VBW                 | 100 kHz                                                   |
| Detector            | Peak                                                      |
| Trace               | Max Hold                                                  |
| Sweep Time          | Auto                                                      |

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 7.6 TEST RESULTS

Please refer to the APPENDIX G.

## 8. BANDWIDTH

### 8.1 LIMIT

| Section          | Test Item |
|------------------|-----------|
| FCC 15.247(a)(1) | Bandwidth |

### 8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

| Spectrum Parameters | Setting                 |
|---------------------|-------------------------|
| Span Frequency      | > Measurement Bandwidth |
| RBW                 | 30 kHz                  |
| VBW                 | 100 kHz                 |
| Detector            | Peak                    |
| Trace               | Max Hold                |
| Sweep Time          | Auto                    |

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 8.6 TEST RESULTS

Please refer to the APPENDIX H.

## 9. MAXIMUM OUTPUT POWER

### 9.1 LIMIT

| Section          | Test Item            | Limit                    |
|------------------|----------------------|--------------------------|
| FCC 15.247(a)(1) | Maximum Output Power | 0.1250 Watt or 20.97 dBm |

Note: 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.

### 9.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

| Spectrum Parameters | Setting                                                                      |
|---------------------|------------------------------------------------------------------------------|
| Span Frequency      | Approximately five times the 20 dB bandwidth, centered on a hopping channel. |
| RBW                 | 3 MHz                                                                        |
| VBW                 | 3 MHz                                                                        |
| Detector            | Peak                                                                         |
| Trace               | Max Hold                                                                     |
| Sweep Time          | Auto                                                                         |

### 9.3 DEVIATION FROM STANDARD

No deviation.

### 9.4 TEST SETUP



### 9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 9.6 TEST RESULTS

Please refer to the APPENDIX I.

## 10. CONDUCTED SPURIOUS EMISSION

### 10.1 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 Output Power limits. If the transmitter complies with the Output 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 Section 15.209(a) is not required.

### 10.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

| Spectrum Parameters | Setting  |
|---------------------|----------|
| Start Frequency     | 30 MHz   |
| Stop Frequency      | 26.5 GHz |
| RBW                 | 100 kHz  |
| VBW                 | 100 kHz  |
| Detector            | Peak     |
| Trace               | Max Hold |
| Sweep Time          | Auto     |

### 10.3 DEVIATION FROM STANDARD

No deviation.

### 10.4 TEST SETUP



### 10.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 10.6 TEST RESULTS

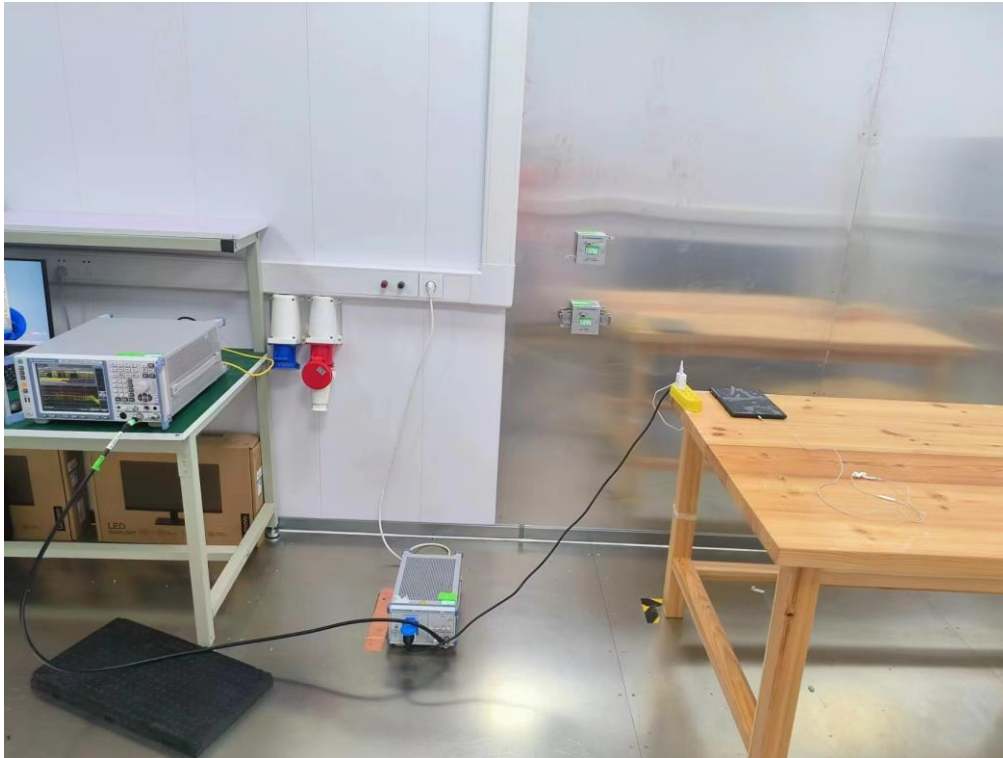
Please refer to the APPENDIX J.

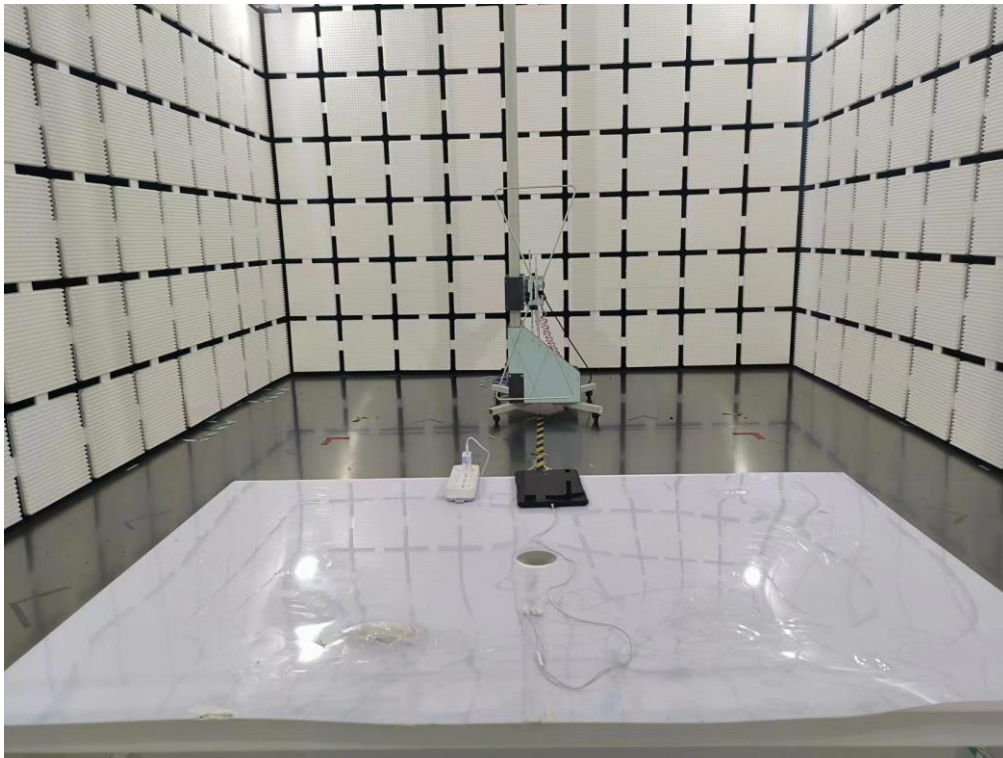
## 11. MEASUREMENT INSTRUMENTS LIST

| Name of Equipment             | Manufacturer    | Model Number         | Serial Number            | Last Calibration | Due Calibration |
|-------------------------------|-----------------|----------------------|--------------------------|------------------|-----------------|
| EMI Receiver                  | Rohde&Schwarz   | ESIB 40              | YH-TIRT-SAC-966-20220911 | 2023/01/05       | 2024/01/06      |
| Integral Antenna              | Schwarzbeck     | VULB 9163            | 01314                    | 2022.12.11       | 2024.12.10      |
| Integral Antenna              | Rohde&Schwarz   | HF907                | RSM2991424               | 2022.12.11       | 2024.12.10      |
| Preamplifier                  | Emtrace         | RP01A                | '02017                   | 2023/01/05       | 2024/01/06      |
| Preamplifier                  | Schwarzbeck     | BBV9744              | 00143                    | 2023/01/05       | 2024/01/06      |
| Loop Antenna                  | ZHINAN          | ZN30900A             | 12024                    | 2023/01/05       | 2024/01/06      |
| Exposure Level Tester         | narda           | ELT-400              | N-0925                   | 2023/01/05       | 2024/01/06      |
| Horn Antenna                  | Schwarzbeck     | BBHA9170             | 00956                    | 2023/01/05       | 2024/01/06      |
| RF Cable                      | /               | LMR400UF-NMNM-7.0M   | /                        | 2023/01/05       | 2024/01/06      |
| RF Cable                      | /               | SFT2050PUR-NMNM-7.0M | /                        | 2023/01/05       | 2024/01/06      |
| EMI Receiver                  | Rohde&Schwarz   | ESR7                 | 1316.3003K07-102611-mk   | 2023/11/02       | 2024/11/01      |
| LISN                          | Rohde&Schwarz   | ENV216               | 3560.655.12-102915-Bp    | 2023/11/02       | 2024/11/01      |
| ISN                           | Schwarzbeck     | ENY81                | 1309.8510.03             | 2023/01/05       | 2024/01/06      |
| ISN                           | Schwarzbeck     | ENY81-CAT6           | 1309.8526.03-101976-kh   | 2023/01/05       | 2024/01/06      |
| RF Cable                      | \               | SFT2050PUR-NMNM-2.0M | \                        | 2023/01/05       | 2024/01/06      |
| CMW500                        | ROHDE&SCHWARZ   | CMW500               | 120434                   | 2023/01/05       | 2024/01/06      |
| Spectrum analyzer             | ROHDE&SCHWARZ   | FSU26                | 200732                   | 2023/01/05       | 2024/01/06      |
| Spectrum analyzer             | ROHDE&SCHWARZ   | FSV40-N              | 101722                   | 2023/01/05       | 2024/01/06      |
| vector Signal Generator       | KEYSIGHT        | N5182B               | MY56200458               | 2023/01/05       | 2024/01/06      |
| vector Signal Generator       | HEWLETT PACKARD | 83752A               | 3610A02458               | 2023/01/05       | 2024/01/06      |
| Filter                        | HEWLETT PACKARD | JS0806-F             | 19K8060209               | 2023/01/05       | 2024/01/06      |
| Wireless comprehensive tester | ANRISTU         | MT8821C              | SN6262170409             | 2023/01/05       | 2024/01/06      |

|                                     |         |         |              |            |            |
|-------------------------------------|---------|---------|--------------|------------|------------|
| Wireless<br>comprehensive<br>tester | ANRISTU | MT8000A | SN6262166782 | 2023/01/05 | 2024/01/06 |
|-------------------------------------|---------|---------|--------------|------------|------------|

Remark: "N/A" denotes no model name, serial no. or calibration specified.

**12. EUT TEST PHOTO****AC Power Line Conducted Emissions Test Photos**

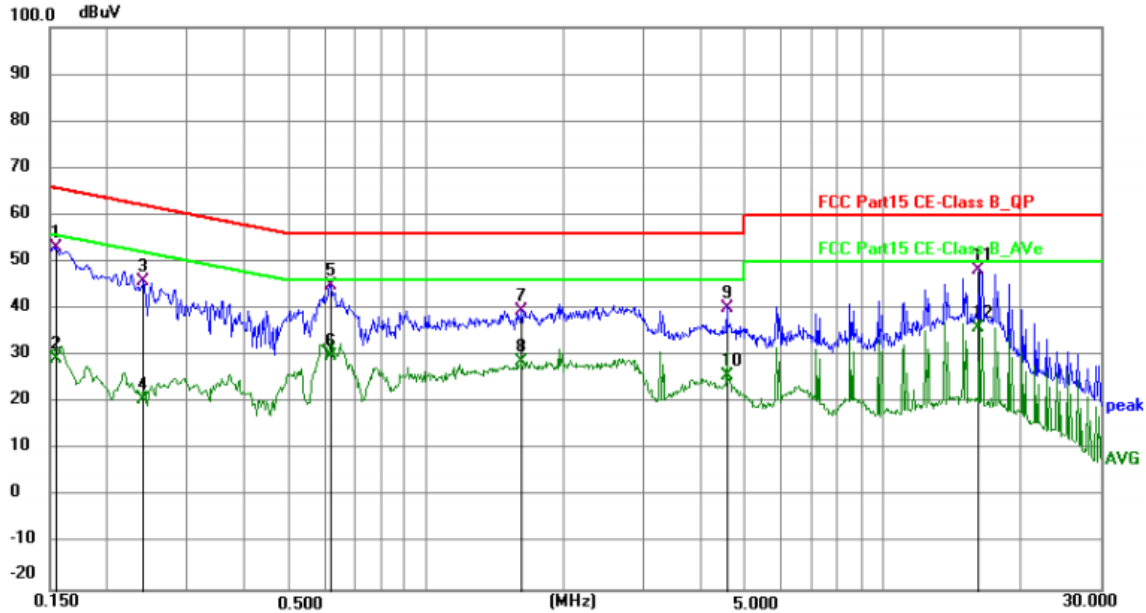
**Radiated Emissions Test Photos****30 MHz to 1000 MHz****Radiated Emissions Test Photos****Above 1 GHz**

### Conducted Test Photos



## APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

|           |                          |       |      |
|-----------|--------------------------|-------|------|
| Test Mode | TX Mode_3Mbps Channel 00 | Phase | Line |
|-----------|--------------------------|-------|------|

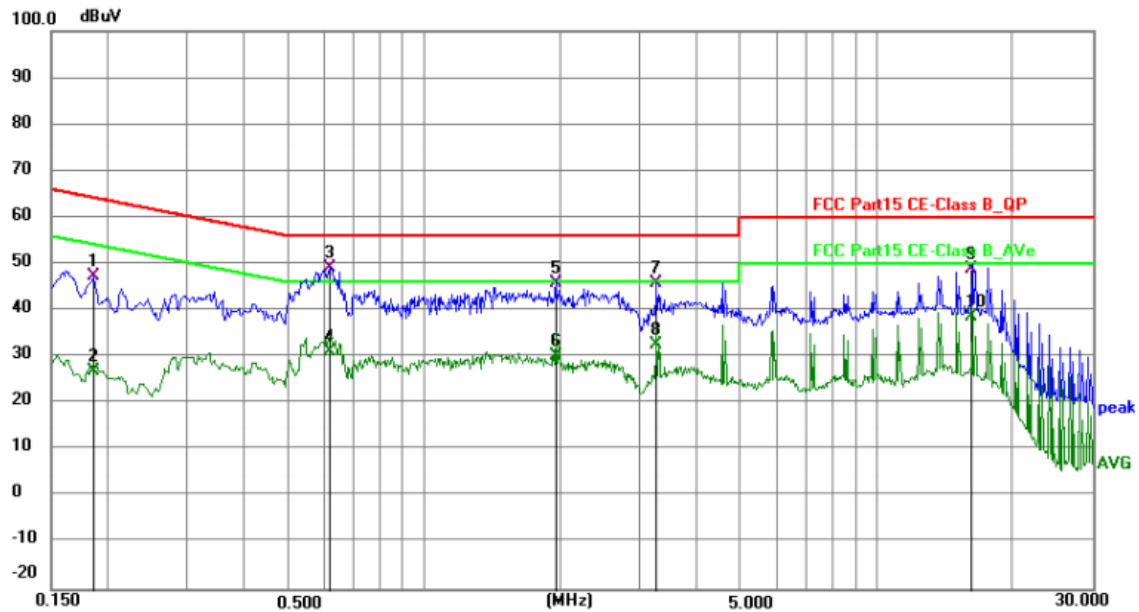


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.1544          | 43.35          | 9.63        | 52.98        | 65.76        | -12.78      | QP       | P   |        |
| 2   | 0.1544          | 19.61          | 9.63        | 29.24        | 55.76        | -26.52      | AVG      | P   |        |
| 3   | 0.2400          | 36.33          | 9.63        | 45.96        | 62.10        | -16.14      | QP       | P   |        |
| 4   | 0.2400          | 10.91          | 9.63        | 20.54        | 52.10        | -31.56      | AVG      | P   |        |
| 5 * | 0.6180          | 35.38          | 9.63        | 45.01        | 56.00        | -10.99      | QP       | P   |        |
| 6   | 0.6180          | 20.26          | 9.63        | 29.89        | 46.00        | -16.11      | AVG      | P   |        |
| 7   | 1.6260          | 29.92          | 9.65        | 39.57        | 56.00        | -16.43      | QP       | P   |        |
| 8   | 1.6260          | 19.08          | 9.65        | 28.73        | 46.00        | -17.27      | AVG      | P   |        |
| 9   | 4.5600          | 30.58          | 9.67        | 40.25        | 56.00        | -15.75      | QP       | P   |        |
| 10  | 4.5600          | 16.09          | 9.67        | 25.76        | 46.00        | -20.24      | AVG      | P   |        |
| 11  | 16.2959         | 38.56          | 9.75        | 48.31        | 60.00        | -11.69      | QP       | P   |        |
| 12  | 16.2959         | 26.30          | 9.75        | 36.05        | 50.00        | -13.95      | AVG      | P   |        |

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                          |       |         |
|-----------|--------------------------|-------|---------|
| Test Mode | TX Mode_3Mbps Channel 00 | Phase | Neutral |
|-----------|--------------------------|-------|---------|



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.1860          | 37.58          | 9.63        | 47.21        | 64.21        | -17.00      | QP       | P   |        |
| 2   | 0.1860          | 17.38          | 9.63        | 27.01        | 54.21        | -27.20      | AVG      | P   |        |
| 3 * | 0.6180          | 39.59          | 9.62        | 49.21        | 56.00        | -6.79       | QP       | P   |        |
| 4   | 0.6180          | 21.63          | 9.62        | 31.25        | 46.00        | -14.75      | AVG      | P   |        |
| 5   | 1.9541          | 36.34          | 9.65        | 45.99        | 56.00        | -10.01      | QP       | P   |        |
| 6   | 1.9541          | 20.53          | 9.65        | 30.18        | 46.00        | -15.82      | AVG      | P   |        |
| 7   | 3.2595          | 36.16          | 9.67        | 45.83        | 56.00        | -10.17      | QP       | P   |        |
| 8   | 3.2595          | 22.86          | 9.67        | 32.53        | 46.00        | -13.47      | AVG      | P   |        |
| 9   | 16.3002         | 39.18          | 9.77        | 48.95        | 60.00        | -11.05      | QP       | P   |        |
| 10  | 16.3002         | 28.99          | 9.77        | 38.76        | 50.00        | -11.24      | AVG      | P   |        |

# REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

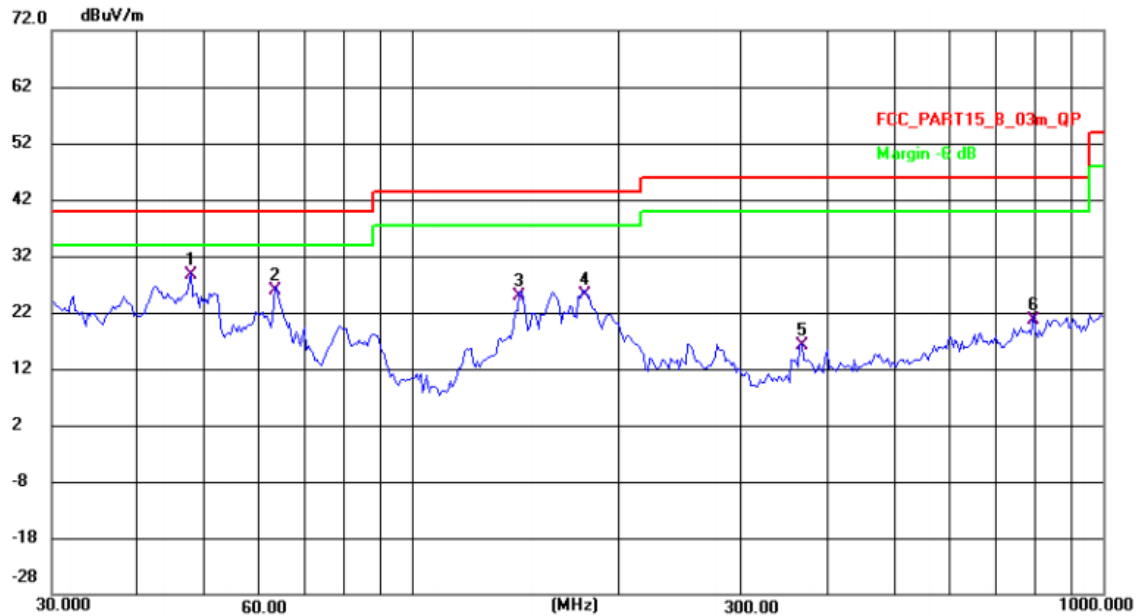
## **APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

## APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

|           |                          |              |          |
|-----------|--------------------------|--------------|----------|
| Test Mode | TX Mode_3Mbps Channel 00 | Polarization | Vertical |
|-----------|--------------------------|--------------|----------|



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 47.7028         | 48.02          | -19.50        | 28.52          | 40.00          | -11.48      | QP       |
| 2   | 63.1856         | 46.61          | -20.85        | 25.76          | 40.00          | -14.24      | QP       |
| 3   | 142.7691        | 45.97          | -21.11        | 24.86          | 43.50          | -18.64      | QP       |
| 4   | 177.5175        | 47.40          | -22.39        | 25.01          | 43.50          | -18.49      | QP       |
| 5   | 366.0865        | 36.66          | -20.45        | 16.21          | 46.00          | -29.79      | QP       |
| 6   | 793.0280        | 31.03          | -10.46        | 20.57          | 46.00          | -25.43      | QP       |

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                          |              |            |
|-----------|--------------------------|--------------|------------|
| Test Mode | TX Mode_3Mbps Channel 00 | Polarization | Horizontal |
|-----------|--------------------------|--------------|------------|



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 47.3686         | 43.64          | -19.50        | 24.14          | 40.00          | -15.86      | QP       |
| 2 * | 63.6311         | 45.52          | -20.94        | 24.58          | 40.00          | -15.42      | QP       |
| 3   | 79.6764         | 46.95          | -24.16        | 22.79          | 40.00          | -17.21      | QP       |
| 4   | 86.6864         | 47.32          | -24.34        | 22.98          | 40.00          | -17.02      | QP       |
| 5   | 278.3306        | 46.46          | -22.89        | 23.57          | 46.00          | -22.43      | QP       |
| 6   | 793.0280        | 38.47          | -10.46        | 28.01          | 46.00          | -17.99      | QP       |

# REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

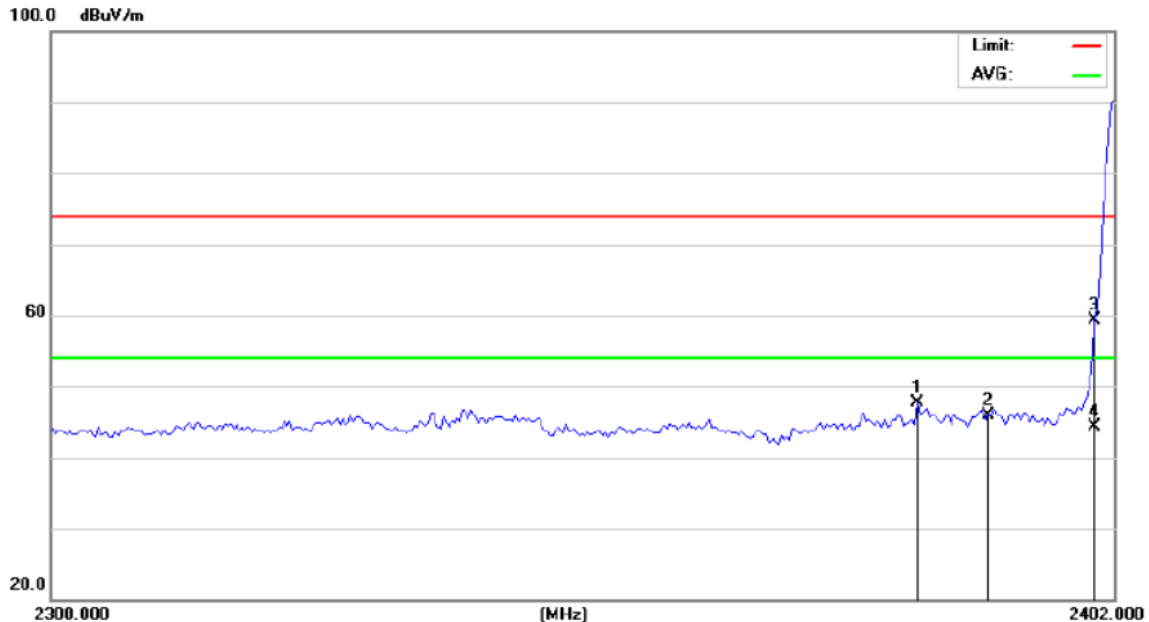
(2) Margin Level = Measurement Value - Limit Value.

## APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Test Result of Radiated Spurious at Band edges

Note: only show the worst mode data

|           |                         |              |          |
|-----------|-------------------------|--------------|----------|
| Test Mode | TX 2402 MHz _CH00_1Mbps | Polarization | Vertical |
|-----------|-------------------------|--------------|----------|



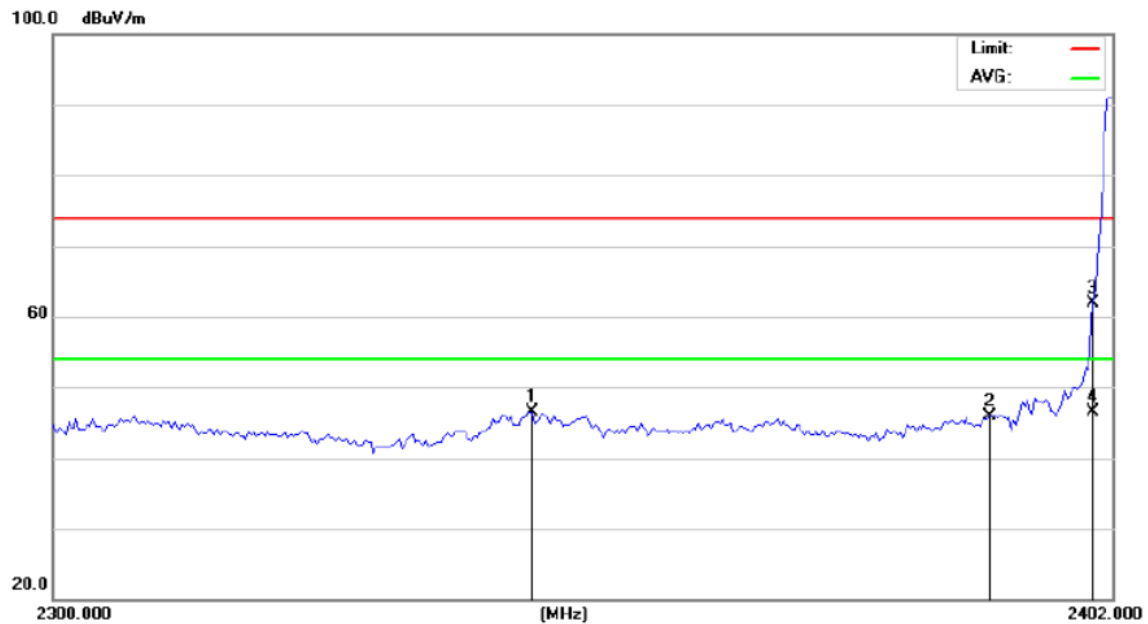
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector | Antenna<br>Height<br>cm | Table<br>Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|-------------------------|-----------------|---------|
| 1   |     | 2382.795     | 52.50                    | -4.87                   | 47.63                      | 74.00         | -26.37     | peak     |                         |                 |         |
| 2   |     | 2390.000     | 50.68                    | -4.82                   | 45.86                      | 74.00         | -28.14     | peak     |                         |                 |         |
| 3   |     | 2400.000     | 64.00                    | -4.75                   | 59.25                      | 74.00         | -14.75     | peak     |                         |                 |         |
| 4   | *   | 2400.000     | 48.96                    | -4.75                   | 44.21                      | 54.00         | -9.79      | AVG      |                         |                 |         |

### REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

|           |                         |              |            |
|-----------|-------------------------|--------------|------------|
| Test Mode | TX 2402 MHz _CH00_1Mbps | Polarization | Horizontal |
|-----------|-------------------------|--------------|------------|



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dB/m  | dB     | Detector       | cm           | degree |
| 1   |     | 2345.607 | 51.66         | -5.12          | 46.54       | 74.00 | -27.46 | peak           |              |        |
| 2   |     | 2390.000 | 50.74         | -4.82          | 45.92       | 74.00 | -28.08 | peak           |              |        |
| 3   |     | 2400.000 | 66.69         | -4.75          | 61.94       | 74.00 | -12.06 | peak           |              |        |
| 4   | *   | 2400.000 | 51.26         | -4.75          | 46.51       | 54.00 | -7.49  | AVG            |              |        |

# REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.