

# RF Test Report

## For

**Applicant name:** 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  
**EUT name:** Smart Phone  
**Brand name:** DOOGEE  
**Model number:** Fire 3 Pro  
**Series model number:** Fire 3 Ultra, Fire 3, Fire 3 Max, Fire 3 Power, Fire 3 Play, Fire 3 Pro Max, Fire 3 Plus  
**FCC ID:** 2AX4YFIRE3PRO

## Issued By

**Company name:** BTF Testing Lab (Shenzhen) Co., Ltd.  
**Address:** 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China  
**Report number:** BTF250708R00406  
**Test standards:** FCC CFR Title 47 Part 15 Subpart C (§15.225)  
**Test conclusion:** Pass  
**Date of sample receipt:** 2025-05-20  
**Test date:** 2025-05-20 to 2025-07-10  
**Date of issue:** 2025-07-28

**Prepared by:**   
Chris Liu / Project engineer

**Approved by:**   
Ryan Gu / EMC manager



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| Revision History  |            |                   |
|---|------------|-------------------|
| Version   | Issue date | Revisions content |
| R_V0  | 2025-07-28 | Original          |
|   |            |                   |
| <i>Note:</i><br><i>Once the revision has been made, then previous versions reports are invalid.</i> |            |                   |

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# 1 Introduction

## 1.1 Laboratory Location

|                |  |
|----------------|--|
| Test location: | BTF Testing Lab (Shenzhen) Co., Ltd.   |
| Address:       | 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China |
| Phone number:  | +86-0755-23146130  |
| Fax number:    | +86-0755-23146130  |

## 1.2 Laboratory Facility

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

- **FCC - Designation No.: CN1409**  
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 518915.
- **CNAS - Registration No.: CNAS L17568**  
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**  
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

## 1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2 Product Information

### 2.1 Application Information

|               |  |
|---------------|--|
| Company name: | 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 |

### 2.2 Manufacturer Information

|               |  |
|---------------|--|
| Company name: | 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 |

### 2.3 Factory Information

|               |  |
|---------------|--|
| Company name: | 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 |

### 2.4 General Description of Equipment under Test (EUT)

|   |  |
|---|--|
| EUT name                                  | Smart Phone  |
| Under test model name                     | Fire 3 Pro   |
| Series model name                         | Fire 3 Ultra, Fire 3, Fire 3 Max, Fire 3 Power, Fire 3 Play, Fire 3 Pro Max, Fire 3 Plus |
| Description of model name differentiation | There is no difference except the name of the model                                      |
| Hardware Version                          | SC6036LU_MB_V1.0.0-20250210  |
| Software Version                          | DOOGEE-Fire 3Pro-EEA-Android15.0-20250419  |
| Rating:                                   | DC 3.87V from battery or DC 9V from Fast Charger   |

### 2.5 Technical Information

|                        |              |
|------------------------|--------------|
| Operation frequency:   | 13.56MHz     |
| Channel Numbers:       | 1            |
| Modulation technology: | ASK          |
| Antenna type:          | Coil Antenna |

### 3 Test Information

#### 3.1 Test Standards

| Identity                                     | Document Title   |
|--|--|
| FCC CFR Title 47 Part 15 Subpart C (§15.225) | Operation within the band 13.110-14.010 MHz.   |
| ANSI C63.10-2020                             | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices |

#### 3.2 Summary of Test

| Clauses   | Test Items                           | Result |
|---|--------------------------------------|--------|
| § 15.203  | Antenna Requirement                  | Pass   |
| § 15.207  | AC Power Line Conducted Emission     | Pass   |
| § 15.215(c)   | 20dB Bandwidth                       | Pass   |
| § 15.225(a)   | Field Strength of Fundamental        | Pass   |
| § 15.209<br>§ 15.225(d)   | Field Strength of Spurious Emissions | Pass   |
| § 15.225(e)   | Frequency Tolerance                  | Pass   |
| <b>Remark:</b><br>1. Pass: met the requirements.<br>2. N/A: not applicable. |                                      |        |

#### 3.3 Uncertainty of Test

| Measurement   | Value    |
|---|----------|
| Conducted Emission for LISN (9kHz ~ 150kHz)   | ±2.97 dB |
| Conducted Emission for LISN (150kHz ~ 30MHz)  | ±2.45 dB |
| Radiated Emission (9kHz ~ 30MHz)  | ±2.20 dB |
| Radiated Emission (30MHz ~ 1000MHz)   | ±4.80 dB |
| Radiated Emission (1GHz ~ 18GHz)  | ±4.82 dB |
| The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |          |

#### 3.4 Additions to, deviations, or exclusions from the method

|      |
|------|
| None |
|------|

#### 3.5 Test Auxiliary Equipment

| Description  | Manufacturer                        | Model       | Serial No. | Length | Description |
|--------------|-------------------------------------|-------------|------------|--------|-------------|
| Fast Charger | Shenzhen Huajin Electronics Co.,LTD | HJ-PD18W-US | N/A        | N/A    | N/A         |

### 3.6 Test Equipment List

| Radiated Emission Test         |                 |           |                      |            |            |
|--------------------------------|-----------------|-----------|----------------------|------------|------------|
| Test Equipment                 | Manufacturer    | Model     | Serial No.           | Cal. Date  | Cal. Due   |
| EMI Receiver                   | Rohde & Schwarz | ESCI7     | 101032               | 2024/10/25 | 2025/10/24 |
| Signal Analyzer                | Rohde & Schwarz | FSQ40     | 100010               | 2024/10/25 | 2025/10/24 |
| Log periodic antenna           | Schwarzbeck     | VULB 9168 | 01328                | 2024/10/28 | 2025/10/27 |
| Preamplifier<br>(30MHz ~ 1GHz) | Schwarzbeck     | BBV9744   | 00246                | 2024/09/24 | 2025/09/23 |
| Horn Antenna                   | Schwarzbeck     | BBHA9120D | 2597                 | 2024/10/30 | 2025/10/29 |
| Preamplifier<br>(1GHz ~ 18GHz) | Schwarzbeck     | BBV9718D  | 00008                | 2024/09/24 | 2025/09/23 |
| Test Software                  | Frad            | EZ EMC    | Version: FA-03A2 RE+ |            |            |

| Conducted Emission Test |                 |             |                         |            |            |
|-------------------------|-----------------|-------------|-------------------------|------------|------------|
| Description             | Manufacturer    | Model       | Serial No.              | Cal. Date  | Cal. Due   |
| EMI Receiver            | Rohde & Schwarz | ESCI3       | 101422                  | 2024/10/25 | 2025/10/24 |
| V-LISN                  | Schwarzbeck     | NSLK 8127   | 01073                   | 2024/10/25 | 2025/10/24 |
| Coaxial Switcher        | Schwarzbeck     | CX210       | CX210                   | /          | /          |
| Pulse Limiter           | Schwarzbeck     | VTSD 9561-F | 00953                   | /          | /          |
| Test Software           | Frad            | EZ EMC      | Version: EMC-CON 3A1.1+ |            |            |

| Conducted test method        |              |         |              |            |            |
|------------------------------|--------------|---------|--------------|------------|------------|
| Description                  | Manufacturer | Model   | Serial No.   | Cal. Date  | Cal. Due   |
| Spectrum Analyzer            | Keysight     | N9020A  | MY50410020   | 2024/10/25 | 2025/10/24 |
| ESG Vector Signal Generator  | Agilent      | E4438C  | MY45094854   | 2024/10/25 | 2025/10/24 |
| Temperature Humidity Chamber | ZZCKONG      | ZZ-K02A | 20210928007  | 2024/10/25 | 2025/10/24 |
| Test Software                | TST Pass     | /       | Version: 2.0 |            |            |

## 4 Test Configuration

### 4.1 Environment Condition

| Selected Values During Tests                      |                   |                   |
|---|-------------------|-------------------|
| Temperature                                       | Relative Humidity | Ambient Pressure  |
| Normal: +15°C to +35°C<br>Extreme: -30°C to +50°C | 20% to 75%        | 86 kPa to 106 kPa |

### 4.2 Test mode

|  |  |
|--|--|
| Transmitting mode:   | Keep the EUT in continuously transmitting mode with modulation |
| <b>Remark:</b> Per-scan all kind of data rate, and report only reflects the test data of worst data rate mode. |  |

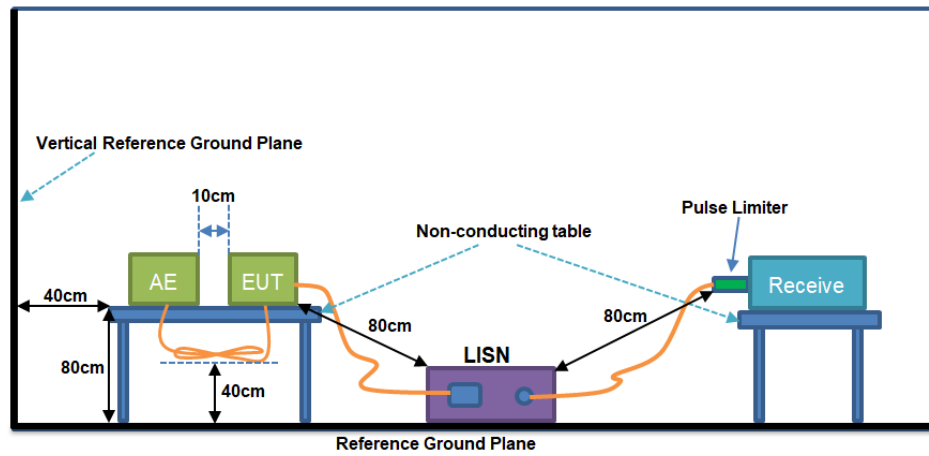
### 4.3 Test procedure

| AC Power Line Conducted Emission   |
|--|
| The EUT is connected to the power mains through a LISN which provides 50 $\Omega$ /50 $\mu$ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.  |
| Radiated test method   |
| <ol style="list-style-type: none"><li>1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.</li><li>2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li><li>3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li></ol> |
| Conducted test method  |
| <ol style="list-style-type: none"><li>1. The antenna port of EUT was connected to the test port of the test system through an RF cable.</li><li>2. The EUT is keeping in continuous transmission mode and tested in all modulation modes.</li><li>3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.</li></ol>   |

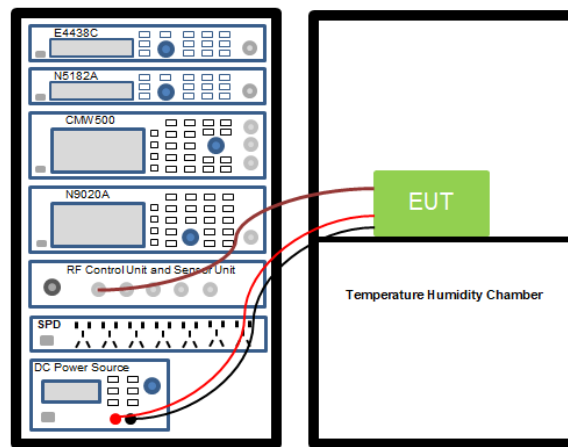


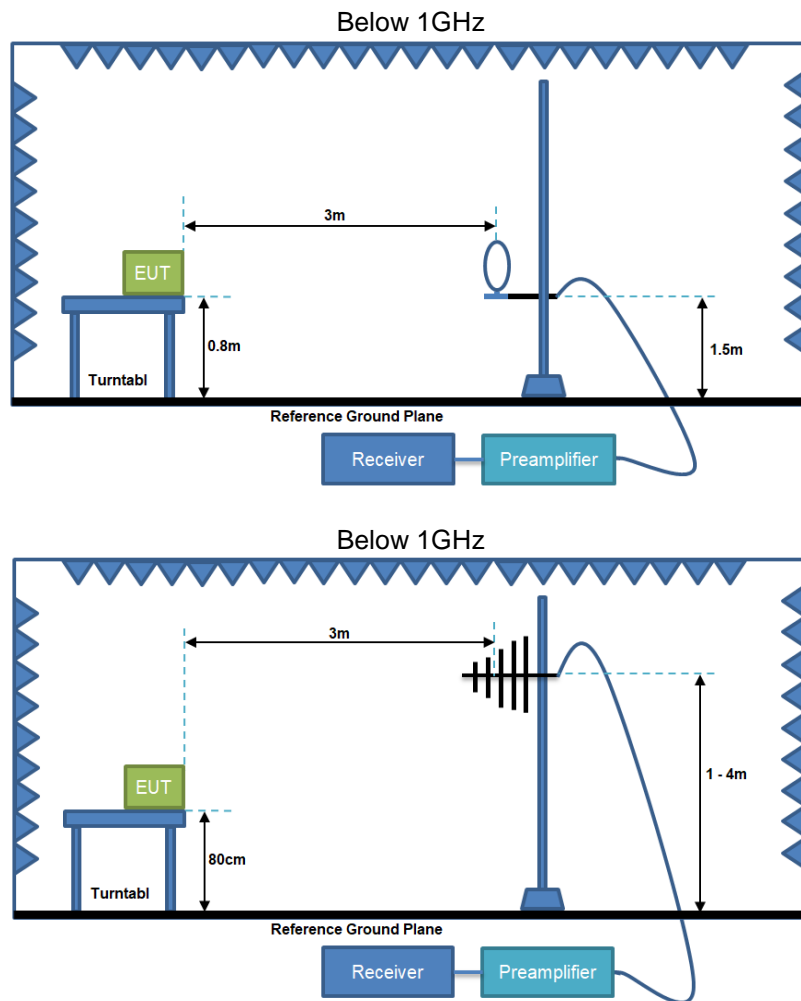
#### 4.4 Test Setup Block

**1) Conducted emission measurement:**



**2) Conducted test method:**



**3) Radiated test method:**

## 5 Technical requirements specification

### 5.1 Summary of Test Result

| Test Items                           | Limit                                  | Test data       | Verdict |
|--------------------------------------|--|-----------------|---------|
| Antenna Requirement                  | Please refer to §15.203                | See Section 5.2 | Pass    |
| AC Power Line Conducted Emission     | Please refer to §15.207                | See Section 5.3 | Pass    |
| 20dB Bandwidth                       | Please refer to § 15.215(c)            | See Section 5.4 | Pass    |
| Field Strength of Fundamental        | Please refer to §15.225(a)             | See Section 5.5 | Pass    |
| Field Strength of Spurious Emissions | Please refer to §15.209 and §15.225(d) | See Section 5.6 | Pass    |
| Frequency Tolerance                  | Please refer to §15.225(e)             | See Section 5.7 | Pass    |

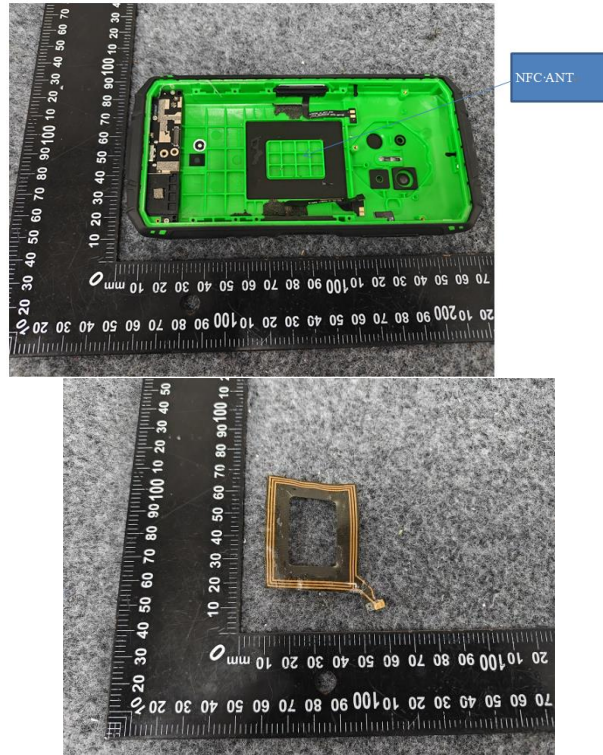
## 5.2 Antenna Requirement

### §15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### E.U.T Antenna:

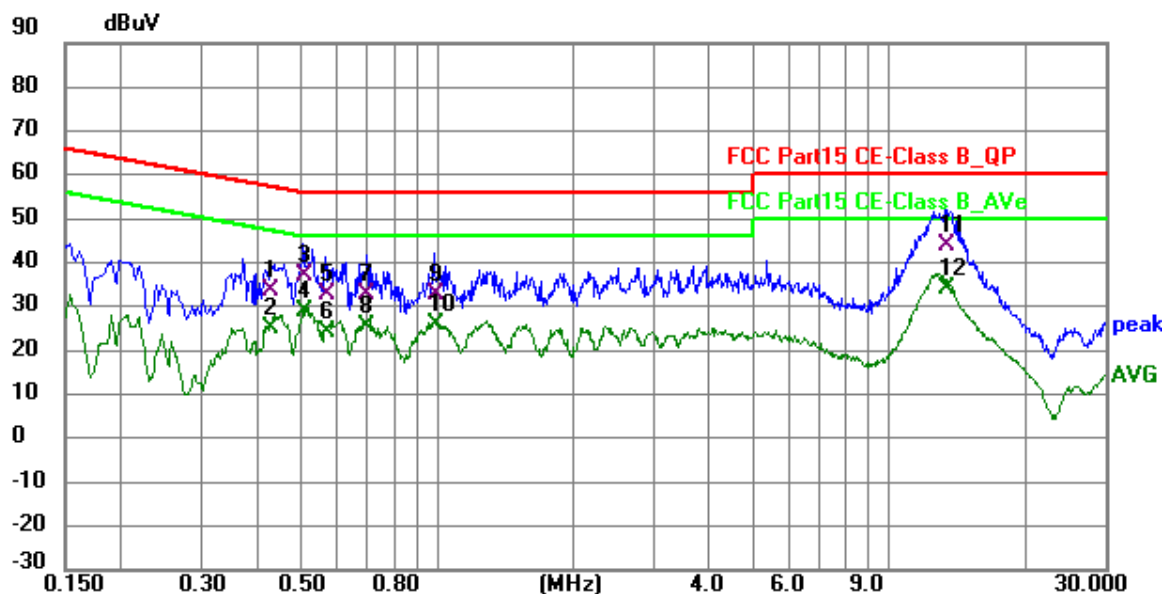
The NFC antenna is an coil antenna which permanently attached, and the best case gain of the antenna is 0dBi. See product internal photos for details.



### 5.3 AC Power Line Conducted Emission

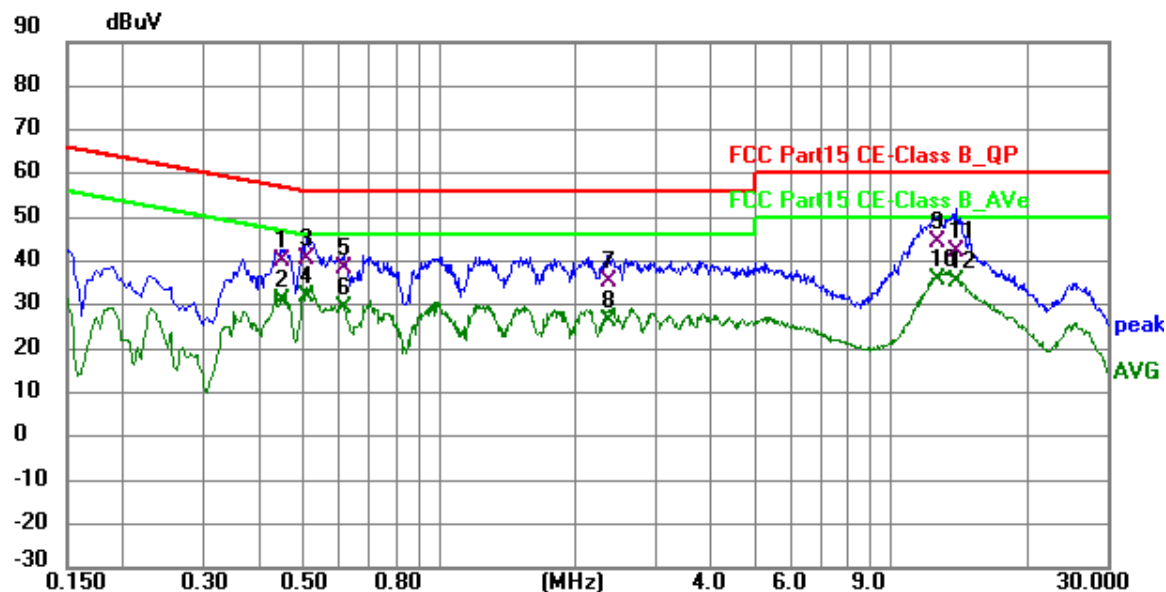
|              |         |               |         |
|--------------|---------|---------------|---------|
| Temperature  | 22.5℃   | Humidity      | 56%     |
| Test voltage | AC 120V | Test Engineer | Sean He |

Test phase: L phase



| No.  | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|------|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1    | 0.4287          | 23.88          | 9.63        | 33.51        | 57.28        | -23.77      | QP       | P   |        |
| 2    | 0.4287          | 15.48          | 9.63        | 25.11        | 47.28        | -22.17      | AVG      | P   |        |
| 3    | 0.5081          | 27.58          | 9.62        | 37.20        | 56.00        | -18.80      | QP       | P   |        |
| 4    | 0.5081          | 19.13          | 9.62        | 28.75        | 46.00        | -17.25      | AVG      | P   |        |
| 5    | 0.5648          | 23.30          | 9.62        | 32.92        | 56.00        | -23.08      | QP       | P   |        |
| 6    | 0.5648          | 14.47          | 9.62        | 24.09        | 46.00        | -21.91      | AVG      | P   |        |
| 7    | 0.6956          | 23.27          | 9.63        | 32.90        | 56.00        | -23.10      | QP       | P   |        |
| 8    | 0.6956          | 16.01          | 9.63        | 25.64        | 46.00        | -20.36      | AVG      | P   |        |
| 9    | 0.9853          | 23.36          | 9.64        | 33.00        | 56.00        | -23.00      | QP       | P   |        |
| 10   | 0.9853          | 16.40          | 9.64        | 26.04        | 46.00        | -19.96      | AVG      | P   |        |
| 11   | 13.3854         | 34.21          | 9.74        | 43.95        | 60.00        | -16.05      | QP       | P   |        |
| 12 * | 13.3854         | 24.52          | 9.74        | 34.26        | 50.00        | -15.74      | AVG      | P   |        |

Test phase: N phase

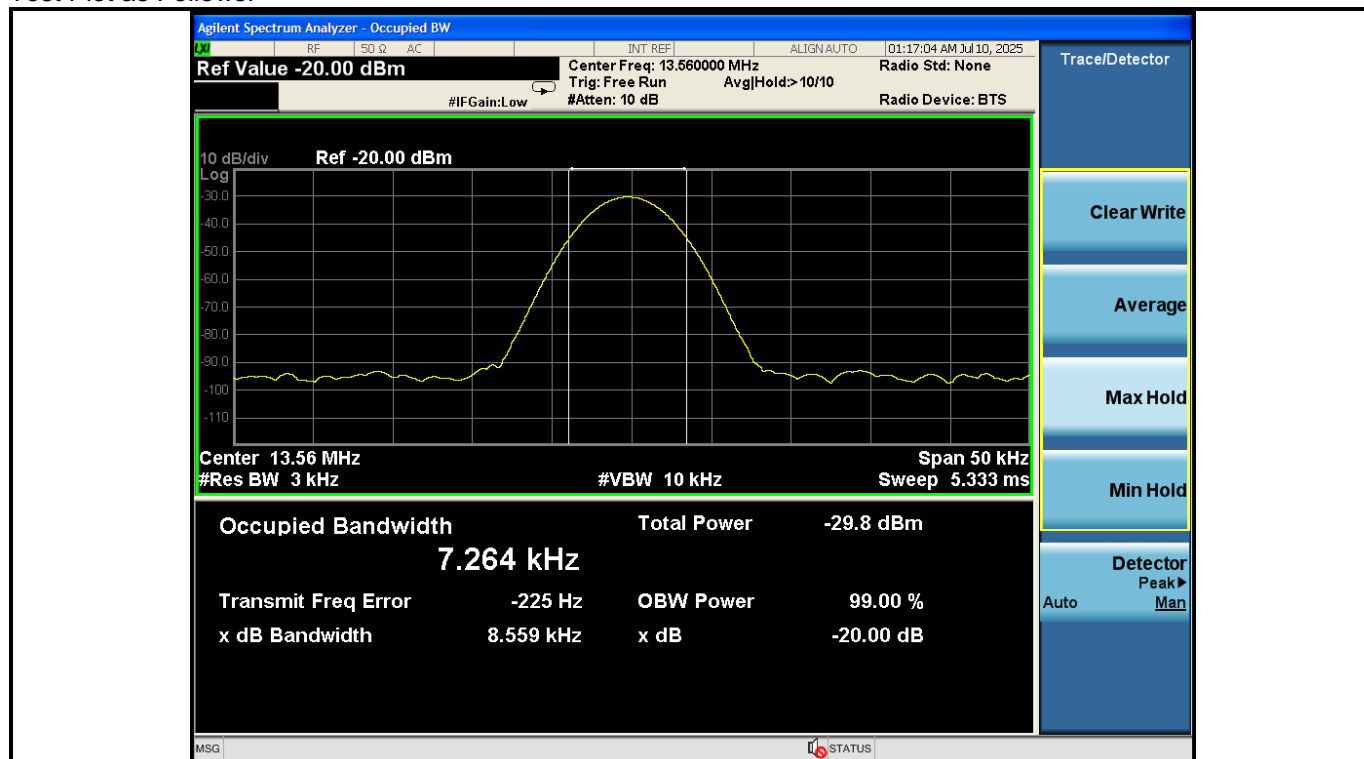


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.4473          | 30.33          | 9.62        | 39.95        | 56.93        | -16.98      | QP       | P   |        |
| 2   | 0.4473          | 21.63          | 9.62        | 31.25        | 46.93        | -15.68      | AVG      | P   |        |
| 3   | 0.5122          | 31.00          | 9.62        | 40.62        | 56.00        | -15.38      | QP       | P   |        |
| 4 * | 0.5122          | 22.45          | 9.62        | 32.07        | 46.00        | -13.93      | AVG      | P   |        |
| 5   | 0.6161          | 28.56          | 9.62        | 38.18        | 56.00        | -17.82      | QP       | P   |        |
| 6   | 0.6161          | 19.87          | 9.62        | 29.49        | 46.00        | -16.51      | AVG      | P   |        |
| 7   | 2.3528          | 25.81          | 9.65        | 35.46        | 56.00        | -20.54      | QP       | P   |        |
| 8   | 2.3528          | 16.61          | 9.65        | 26.26        | 46.00        | -19.74      | AVG      | P   |        |
| 9   | 12.6340         | 34.58          | 9.75        | 44.33        | 60.00        | -15.67      | QP       | P   |        |
| 10  | 12.6340         | 25.91          | 9.75        | 35.66        | 50.00        | -14.34      | AVG      | P   |        |
| 11  | 13.8987         | 32.60          | 9.76        | 42.36        | 60.00        | -17.64      | QP       | P   |        |
| 12  | 13.8987         | 25.49          | 9.76        | 35.25        | 50.00        | -14.75      | AVG      | P   |        |

## 5.4 20dB Bandwidth

| Mode    | Freq (MHz) | 20dB Bandwidth (KHz) | 99% Bandwidth | Limit (kHz) | Conclusion |
|---------|------------|----------------------|---------------|-------------|------------|
| Tx Mode | 13.56      | 8.559                | 7.264         | /           | PASS       |

Test Plot as Follows:



## 5.5 Field Strength of Fundamental

|              |          |               |         |
|--------------|----------|---------------|---------|
| Temperature  | 22.5℃    | Humidity      | 56%     |
| Test voltage | DC 3.87V | Test Engineer | Sean He |

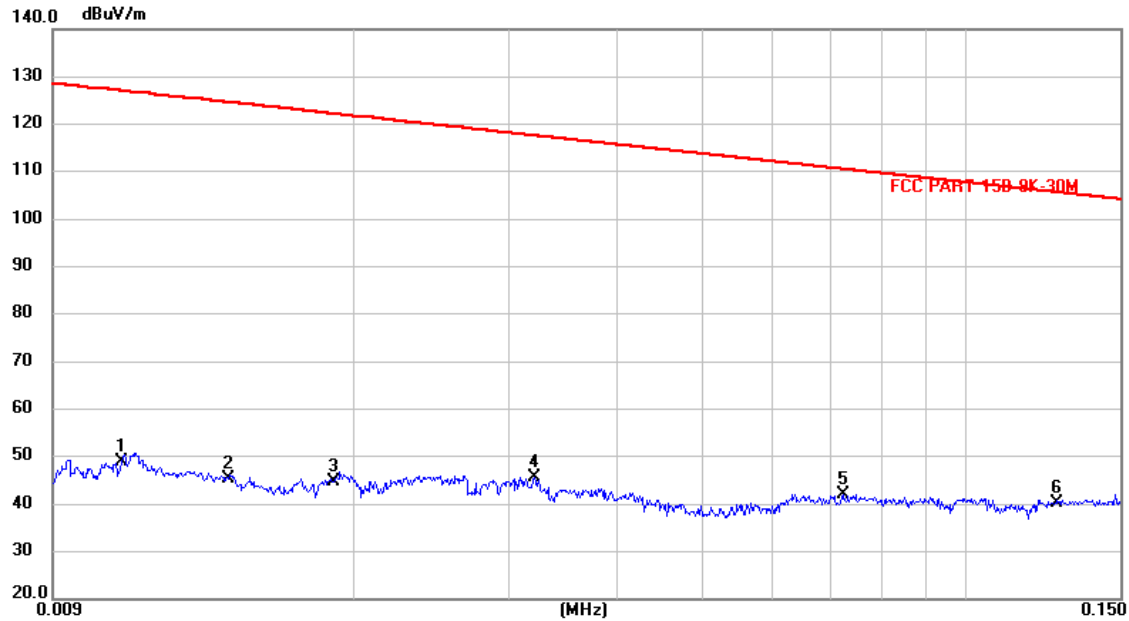
| Freq. (MHz) | Position H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limits 3m (dBuV/m) | Margin (dBuV/m) |
|-------------|--------------|-----------------------|----------------|-------------|--------------------|--------------------|-----------------|
| 13.56       | H            | Peak                  | 70.87          | -13.94      | 56.93              | 124                | -67.07          |
| 13.56       | H            | AV                    | 67.34          | -13.94      | 53.40              | 104                | -50.60          |
| 13.11       | H            | Peak                  | 66.83          | -13.94      | 52.89              | 80.5               | -27.61          |
| 13.41       | H            | Peak                  | 65.94          | -13.94      | 52.00              | 90.5               | -38.50          |
| 13.553      | H            | Peak                  | 65.05          | -13.94      | 51.11              | 90.5               | -39.39          |
| 13.567      | H            | Peak                  | 64.15          | -13.93      | 50.22              | 90.5               | -40.28          |
| 13.71       | H            | Peak                  | 63.26          | -13.93      | 49.33              | 80.5               | -31.17          |
| 14.01       | H            | Peak                  | 62.37          | -13.93      | 48.44              | 80.5               | -32.06          |
| Freq. (MHz) | Position H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limits 3m (dBuV/m) | Margin (dBuV/m) |
| 13.56       | V            | Peak                  | 70.86          | -13.94      | 56.92              | 124                | -67.08          |
| 13.56       | V            | AV                    | 70.8           | -13.94      | 56.86              | 104                | -47.14          |
| 13.11       | V            | Peak                  | 70.26          | -13.94      | 56.32              | 80.5               | -24.18          |
| 13.41       | V            | Peak                  | 70.17          | -13.94      | 56.23              | 90.5               | -34.27          |
| 13.553      | V            | Peak                  | 69.93          | -13.94      | 55.99              | 90.5               | -34.51          |
| 13.567      | V            | Peak                  | 69.23          | -13.93      | 55.30              | 90.5               | -35.20          |
| 13.71       | V            | Peak                  | 68.26          | -13.93      | 54.33              | 80.5               | -26.17          |
| 14.01       | V            | Peak                  | 68.09          | -13.93      | 54.16              | 80.5               | -26.34          |



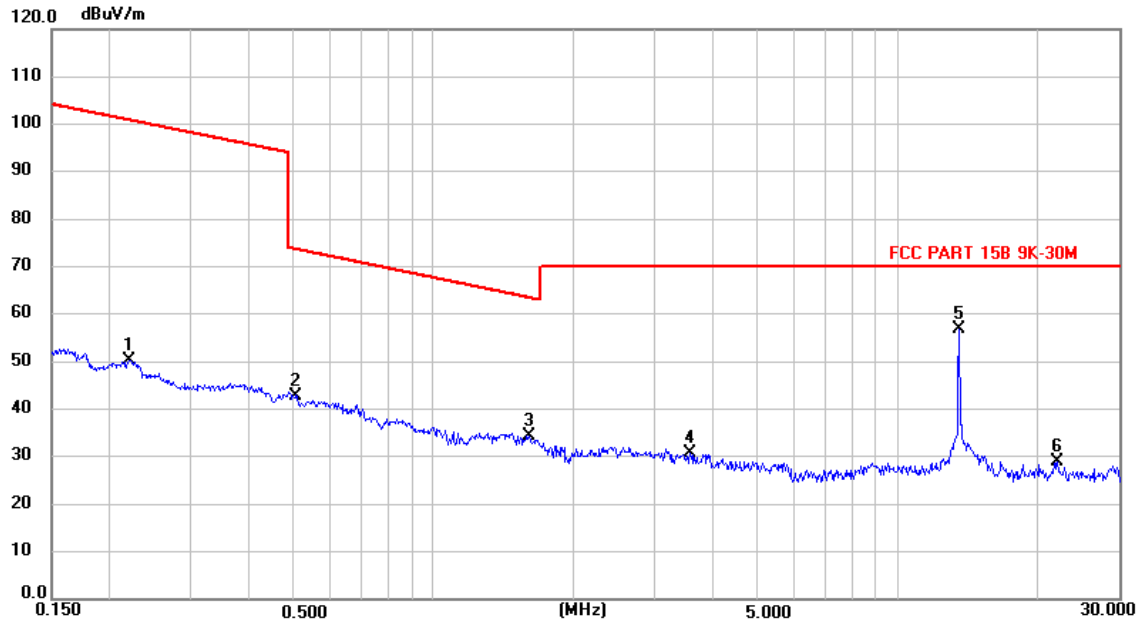
## 5.6 Field Strength of Spurious Emissions

|              |          |               |         |
|--------------|----------|---------------|---------|
| Temperature  | 22.5℃    | Humidity      | 56%     |
| Test voltage | DC 3.87V | Test Engineer | Sean He |

Test Frequency: 9KHz to 30MHz

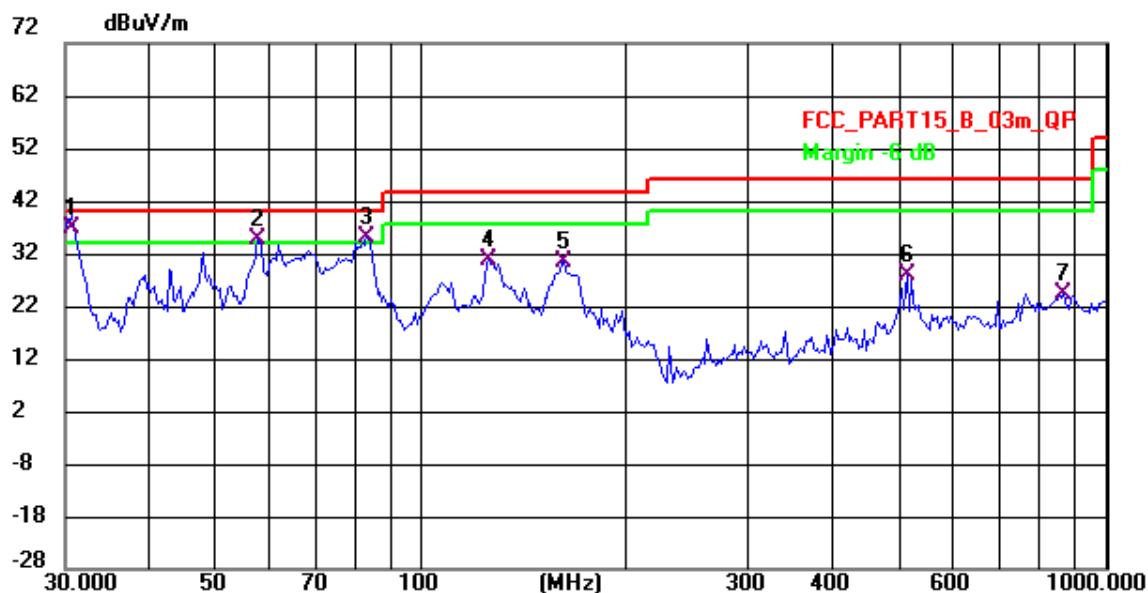


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 0.0108          | 27.42          | 21.48         | 48.90          | 127.03         | -78.13      | peak     |             |                | P   |        |
| 2   | 0.0143          | 23.85          | 21.39         | 45.24          | 124.60         | -79.36      | peak     |             |                | P   |        |
| 3   | 0.0190          | 23.56          | 21.27         | 44.83          | 122.14         | -77.31      | peak     |             |                | P   |        |
| 4   | 0.0320          | 24.65          | 20.88         | 45.53          | 117.62         | -72.09      | peak     |             |                | P   |        |
| 5   | 0.0724          | 21.92          | 20.16         | 42.08          | 110.55         | -68.47      | peak     |             |                | P   |        |
| 6 * | 0.1270          | 20.30          | 19.87         | 40.17          | 105.69         | -65.52      | peak     |             |                | P   |        |



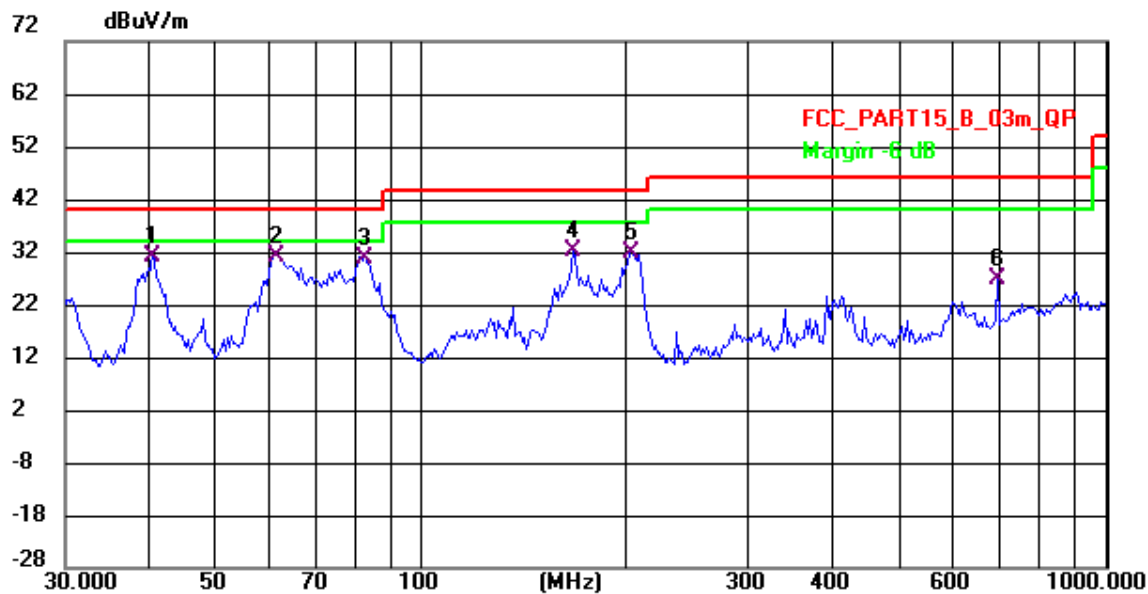
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 0.2205          | 30.22          | 20.10         | 50.32          | 100.91         | -50.59      | peak     |             |                | P   |        |
| 2   | 0.5070          | 23.20          | 19.70         | 42.90          | 73.70          | -30.80      | peak     |             |                | P   |        |
| 3   | 1.6067          | 14.29          | 20.15         | 34.44          | 63.52          | -29.08      | peak     |             |                | P   |        |
| 4   | 3.5678          | 9.81           | 20.81         | 30.62          | 70.00          | -39.38      | peak     |             |                | P   |        |
| 5 * | 13.5625         | 36.29          | 20.64         | 56.93          | 70.00          | -13.07      | peak     |             |                | P   |        |
| 6   | 22.0667         | 9.28           | 19.70         | 28.98          | 70.00          | -41.02      | peak     |             |                | P   |        |

Test Frequency: 30 MHz to 1 GHz, Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 * | 30.6392         | 60.22          | -23.35        | 36.87          | 40.00          | -3.13       | QP       | 200         | 12             | P   |        |
| 2 ! | 57.2654         | 57.00          | -22.46        | 34.54          | 40.00          | -5.46       | QP       | 200         | 196            | P   |        |
| 3 ! | 83.1076         | 60.87          | -25.84        | 35.03          | 40.00          | -4.97       | QP       | 100         | 36             | P   |        |
| 4   | 124.9249        | 53.15          | -22.43        | 30.72          | 43.50          | -12.78      | QP       | 100         | 342            | P   |        |
| 5   | 160.8852        | 51.04          | -20.77        | 30.27          | 43.50          | -13.23      | QP       | 200         | 273            | P   |        |
| 6   | 512.9477        | 44.34          | -16.53        | 27.81          | 46.00          | -18.19      | QP       | 100         | 61             | P   |        |
| 7   | 868.8860        | 33.23          | -8.94         | 24.29          | 46.00          | -21.71      | QP       | 100         | 208            | P   |        |

Test Frequency: 30 MHz to 1 GHz, Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 * | 40.2995         | 53.20          | -22.08        | 31.12          | 40.00          | -8.88       | QP       | 100         | 298            | P   |        |
| 2   | 61.0041         | 53.71          | -22.68        | 31.03          | 40.00          | -8.97       | QP       | 100         | 114            | P   |        |
| 3   | 82.5257         | 56.73          | -25.85        | 30.88          | 40.00          | -9.12       | QP       | 200         | 15             | P   |        |
| 4   | 166.6385        | 53.05          | -20.91        | 32.14          | 43.50          | -11.36      | QP       | 100         | 261            | P   |        |
| 5   | 202.8745        | 56.50          | -24.79        | 31.71          | 43.50          | -11.79      | QP       | 200         | 126            | P   |        |
| 6   | 693.9101        | 39.21          | -12.25        | 26.96          | 46.00          | -19.04      | QP       | 100         | 261            | P   |        |

## 5.7 Frequency Tolerance

### Frequency Stability V.S. Temperature Measurement:

| Assigned Frequency(MHz): 13.56MHz |             |                         |                     |                          |
|-----------------------------------|-------------|-------------------------|---------------------|--------------------------|
| Voltage                           | Temperature | Measured Frequency(MHz) | Frequency stability | Limit                    |
| Low DC 3.28V                      | 20℃         | 13.560403               | 0.000403            | ±100 ppm<br>±0.001356MHz |
| Normal DC 3.87V                   | -20℃        | 13.560321               | 0.000321            |                          |
|                                   | -10℃        | 13.560325               | 0.000325            |                          |
|                                   | -5℃         | 13.560721               | 0.000721            |                          |
|                                   | 0℃          | 13.560511               | 0.000511            |                          |
|                                   | +10℃        | 13.560010               | 0.000010            |                          |
|                                   | +20℃        | 13.560322               | 0.000322            |                          |
|                                   | +30℃        | 13.560430               | 0.000430            |                          |
|                                   | +40℃        | 13.560421               | 0.000421            |                          |
|                                   | +50℃        | 13.560453               | 0.000453            |                          |
| High DC 4.45V                     | +20℃        | 13.560421               | 0.000421            |                          |

## 6 Test Setup Photos

Please refer to the Appendix I Test Setup Photos

## 7 EUT Constructional Details (EUT Photos)

Please refer to the Appendix II External Photos & Appendix III External Photos



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**--END OF REPORT--**