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# FCC Test Report

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Report No.: AGC04447250302FE02

**FCC ID** : 2AZVI-T66

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Two Way Radio

**BRAND NAME** : JJCC

**MODEL NAME** : T66, T66A

**APPLICANT** : MATH MARK (FUJIAN) COMMUNICATIONS CORP. LIMITED

**DATE OF ISSUE** : May 13, 2025

**STANDARD(S)** : FCC Part 15 Subpart B

**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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**Report Revise Record**

| Report Version | Revise Time | Issued Date  | Valid Version | Notes           |
|----------------|-------------|--------------|---------------|-----------------|
| V1.0           | /           | May 13, 2025 | Valid         | Initial Release |

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## Table of Contents

|   |           |
|---|-----------|
| <b>1. General Information .....</b>               | <b>4</b>  |
| <b>2. Product Information .....</b>               | <b>5</b>  |
| 2.1 Product Technical Description .....           | 5         |
| 2.2 Auxiliary Surrounding Description .....       | 5         |
| 2.2 Test Methodology .....                        | 6         |
| 2.3 Definition of Device Classification .....     | 6         |
| 2.3 Description of Test Modes .....               | 6         |
| <b>3. Test Environment .....</b>                  | <b>7</b>  |
| 3.1 Address of The Test Laboratory .....          | 7         |
| 3.2 Test Facility .....                           | 7         |
| 3.3 Environmental Conditions .....                | 8         |
| 3.4 Measurement Uncertainty .....                 | 8         |
| 3.5 List of Equipment Used .....                  | 9         |
| <b>4. Summary of Test Results .....</b>           | <b>10</b> |
| <b>5. Radiated Emission Measurements.....</b>     | <b>11</b> |
| 5.1 Provisions Applicable .....                   | 11        |
| 5.2 Measurement Setup .....                       | 11        |
| 5.3 Measurement Procedure.....                    | 12        |
| 5.4 Measurement Result .....                      | 13        |
| <b>6. Conducted Emission Measurements.....</b>    | <b>17</b> |
| 6.1 Provisions Applicable .....                   | 17        |
| 6.2 Measurement Setup .....                       | 17        |
| 6.3 Measurement Procedure.....                    | 18        |
| 6.4 Measurement Result .....                      | 19        |
| <b>Appendix I: Photographs of Test Setup.....</b> | <b>21</b> |
| <b>Appendix II: Photographs of Test EUT .....</b> | <b>21</b> |

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## 1. General Information

|                              |   |
|------------------------------|---|
| Applicant                    | MATH MARK (FUJIAN)COMMUNICATIONS CORP. LIMITED  |
| Address                      | No 789,Xiacuo Area, Sihuang Village, Daxiamei, Nan'an, Quanzhou, Fujian, China 362302 |
| Manufacturer                 | MATH MARK (FUJIAN)COMMUNICATIONS CORP. LIMITED  |
| Address                      | No 789,Xiacuo Area, Sihuang Village, Daxiamei, Nan'an, Quanzhou, Fujian, China 362302 |
| Factory                      | MATH MARK (FUJIAN)COMMUNICATIONS CORP. LIMITED  |
| Address                      | No 789,Xiacuo Area, Sihuang Village, Daxiamei, Nan'an, Quanzhou, Fujian, China 362302 |
| Product Designation          | Two Way Radio   |
| Brand Name                   | JJCC  |
| Test Model                   | T66   |
| Series Model(s)              | T66A  |
| Difference Description       | All the same except the model name is different                                       |
| Date of receipt of test item | Mar. 27, 2025   |
| Date of Test                 | Apr. 08, 2025 – May 09, 2025  |
| Deviation from Standard      | No any deviation from the test method   |
| Condition of Test Sample     | Normal  |
| Test Result                  | Pass  |
| Test Report Form No          | AGCTR-ER-FCC-SDOC V1.0  |

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By

*Jack Gui*

Jack Gui  
(Project Engineer)

May 09, 2025

Reviewed By

*Bibo Zhang*

Bibo Zhang  
(Reviewer)

May 09, 2025

Approved By

*Angela Li*

Angela Li  
Authorized Officer

May 09, 2025

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## 2. Product Information

### 2.1 Product Technical Description

|                             |   |
|-----------------------------|---|
| Housing Type                | Plastic and metal   |
| Highest Operating Frequency | <input checked="" type="checkbox"/> Greater than 108MHz <input type="checkbox"/> Less than 108MHz |
| Equipment Type              | Table-Top   |
| Receiving Frequency         | 462.5625-462.7125MHz, 467.5625-467.7125MHz  |
| Hardware Version            | V1.2  |
| Software Version            | V1.0  |
| Input Rating                | DC 5V, 1A   |

### I/O Port Information (☒ Applicable ☐ Not Applicable)

| I/O Port of EUT |      |       |             |
|-----------------|------|-------|-------------|
| I/O Port Type   | Q'TY | Cable | Tested with |
| Antenna Port    | 1    | 0     | 1           |
| Type-C          | 1    | 0     | 1           |

### 2.2 Auxiliary Surrounding Description

The Following Peripheral Devices and Interface Cables Were Connected During the Measurement:

☒ Test Accessories Come From The Laboratory

| Equipment | Manufacturer | Model Name   | Specification | Data Cable | Power Cable |
|-----------|--------------|--------------|---------------|------------|-------------|
| Adapter   | Huawei       | HW-200440C00 | -             | -          | -           |

☒ Test Accessories Come From The Manufacturer

| Equipment | Manufacturer | Model Name | Specification | Data Cable | Power Cable         |
|-----------|--------------|------------|---------------|------------|---------------------|
| Charger   | -            |            | -             | -          | 0.94m<br>Unshielded |

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## 2.2 Test Methodology

The tests were performed according to following standards:

| No. | Identity           | Document Title  |
|-----|--------------------|---|
| 1   | FCC 47 CFR Part 15 | Radio Frequency Devices   |
| 2   | ANSI C63.4-2014    | American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |

## 2.3 Definition of Device Classification

Unintentional radiator:

A device which is not intended to emit RF energy by radiation or induction.

Class A Digital Device:

A digital device which is marketed for use in commercial or business environment.

Class B Digital Device:

A digital device which is marketed for use by the general public or in a residential environment.

Note:

A manufacturer may also qualify a device intended to be marketed in a commercial, business or industrial environment as a Class B digital device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B Digital Device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B Digital Device, Regardless of its intended use.

## 2.3 Description of Test Modes

| No. | Test Mode   |
|-----|---|
| 1   | Receiving at low channel of 462.5625 MHz to 462.7125 MHz    |
| 2   | Receiving at middle channel of 462.5625 MHz to 462.7125 MHz |
| 3   | Receiving at high channel of 462.5625 MHz to 462.7125 MHz   |
| 4   | Receiving at low channel of 467.5625 MHz to 467.7125 MHz    |
| 5   | Receiving at middle channel of 467.5625 MHz to 467.7125 MHz |
| 6   | Receiving at high channel of 467.5625 MHz to 467.7125 MHz   |

Note: Only the result of the worst case was recorded in the report.

### 3. Test Environment

#### 3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### 3.2 Test Facility

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

##### **CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

##### **A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

##### **FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

##### **IC-Registration No.: 24842 (CAB identifier: CN0063)**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

### 3.3 Environmental Conditions

|                         | Normal Conditions |
|-------------------------|-------------------|
| Temperature range (°C)  | 15 - 35           |
| Relative humidity range | 20 % - 75 %       |
| Pressure range (kPa)    | 86 - 106          |

### 3.4 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

| Item  | Measurement Uncertainty    |
|---|----------------------------|
| Uncertainty of Conducted Emission           | $U_c = \pm 2.9 \text{ dB}$ |
| Uncertainty of Radiated Emission below 1GHz | $U_c = \pm 3.9 \text{ dB}$ |
| Uncertainty of Radiated Emission above 1GHz | $U_c = \pm 4.9 \text{ dB}$ |

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### 3.5 List of Equipment Used

| ● Radiated Emission                 |               |                               |              |           |            |                           |                           |
|-------------------------------------|---------------|-------------------------------|--------------|-----------|------------|---------------------------|---------------------------|
| Used                                | Equipment No. | Test Equipment                | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| <input checked="" type="checkbox"/> | AGC-EM-E046   | EMI Test Receiver             | R&S          | ESCI      | 10096      | 2025-01-14                | 2026-01-13                |
| <input checked="" type="checkbox"/> | AGC-EM-E061   | Spectrum Analyzer             | Agilent      | N9010A    | MY53470504 | 2024-05-28                | 2025-05-27                |
| <input checked="" type="checkbox"/> | AGC-EM-E001   | Wideband Antenna              | SCHWARZBECK  | VULB9168  | D69250     | 2025-01-05                | 2027-01-04                |
| <input checked="" type="checkbox"/> | AGC-EM-E029   | Broadband Ridged Horn Antenna | ETS          | 3117      | 00034609   | 2025-03-27                | 2026-03-26                |
| <input checked="" type="checkbox"/> | AGC-EM-E146   | Pre-amplifier                 | ETS          | 3117-PA   | 00246148   | 2024-07-24                | 2026-07-23                |

| ● AC Power Line Conducted Emission  |               |                   |                 |            |            |                           |                           |
|-------------------------------------|---------------|-------------------|-----------------|------------|------------|---------------------------|---------------------------|
| Used                                | Equipment No. | Test Equipment    | Manufacturer    | Model No.  | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| <input checked="" type="checkbox"/> | AGC-EM-E116   | EMI Test Receiver | R&S             | ESCI       | 100034     | 2024-05-24                | 2025-05-23                |
| <input checked="" type="checkbox"/> | AGC-EM-A130   | 6dB Attenuator    | Beijingtenghonh | LM-XX-6-5W | N/A        | 2023-06-09                | 2025-06-08                |
| <input checked="" type="checkbox"/> | AGC-EM-E023   | AMN               | R&S             | 100086     | ESH2-Z5    | 2024-05-28                | 2025-05-27                |

| ● Test Software                     |               |                 |              |                                  |                     |
|-------------------------------------|---------------|-----------------|--------------|----------------------------------|---------------------|
| Used                                | Equipment No. | Test Equipment  | Manufacturer | Model No.                        | Version Information |
| <input checked="" type="checkbox"/> | AGC-EM-S004   | RE Test System  | Tonscend     | TS <sup>+</sup> Ver2.1(JS32-RE)  | 4.0.0.0             |
| <input type="checkbox"/>            | AGC-EM-S003   | RE Test System  | FARA         | EZ-EMC                           | V.RA-03A            |
| <input checked="" type="checkbox"/> | AGC-EM-S011   | RSE Test System | Tonscend     | TS <sup>+</sup> Ver2.1(JS36-RSE) | 4.0.0.0             |
| <input checked="" type="checkbox"/> | AGC-EM-S001   | CE Test System  | R&S          | ES-K1                            | V1.71               |

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#### 4. Summary of Test Results

| Item | FCC Rules      | Description Of Test | Class/Severity | Result |
|------|----------------|---------------------|----------------|--------|
| 1    | Section 15.107 | Radiated Emission   | Class B        | Pass   |
| 2    | Section 15.109 | Conducted Emission  | Class B        | Pass   |

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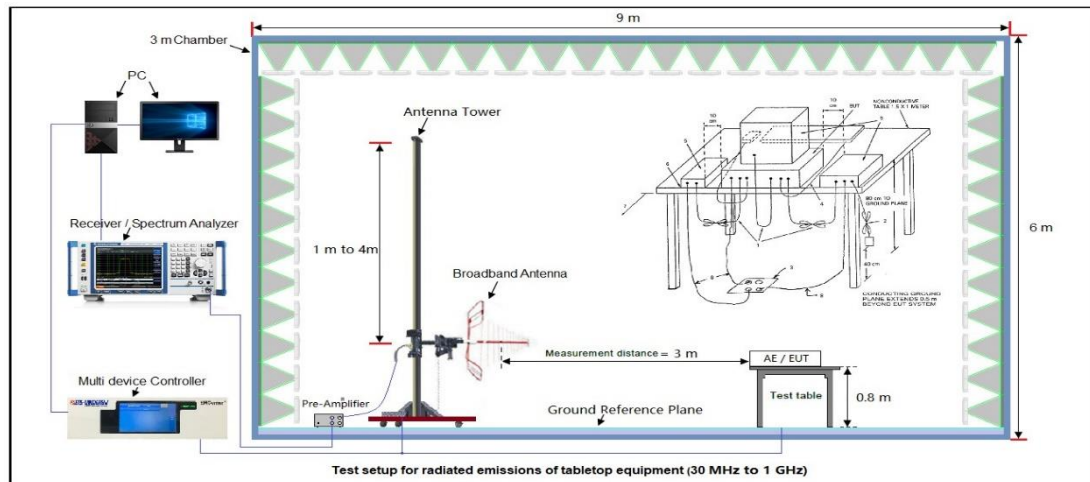
## 5. Radiated Emission Measurements

### 5.1 Provisions Applicable

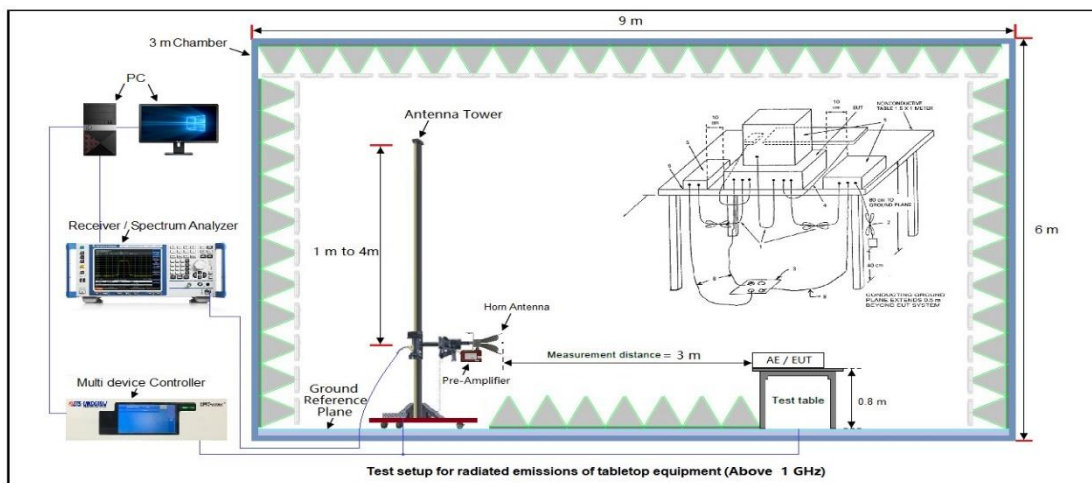
FCC CFR Title 47 Part 15 Subpart B Section 15.109:

| Frequency Range | Class B Limit<br>(dBuV/m @3m) | Class A Limit<br>(dBuV/m @3m) | Value      |
|-----------------|-------------------------------|-------------------------------|------------|
| 30MHz-88MHz     | 40.00                         | 50.00                         | Quasi-peak |
| 88MHz-216MHz    | 43.50                         | 53.50                         | Quasi-peak |
| 216MHz-960MHz   | 46.00                         | 56.00                         | Quasi-peak |
| 960MHz-1GHz     | 54.00                         | 64.00                         | Quasi-peak |
| Above 1GHz      | 54.00                         | 60.00                         | Average    |
|                 | 74.00                         | 80.00                         | Peak       |

### 5.2 Measurement Setup



Radiated Emission Measurements Test Setup for 30MHz to 1GHz



Radiated Emission Measurements Test Setup for above 1GHz

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### 5.3 Measurement Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. The EUT received power by AC 120V/60Hz.
5. The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
6. The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
7. The test mode(s) were scanned during the test:
8. Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented. For emissions below 1GHz, use 120KHz RBW and VBW $\geq$ 3RBW for QP reading.
9. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
10. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
11. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
12. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
13. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
14. The test data of the worst case condition (mode 1) was reported on the following Data page.

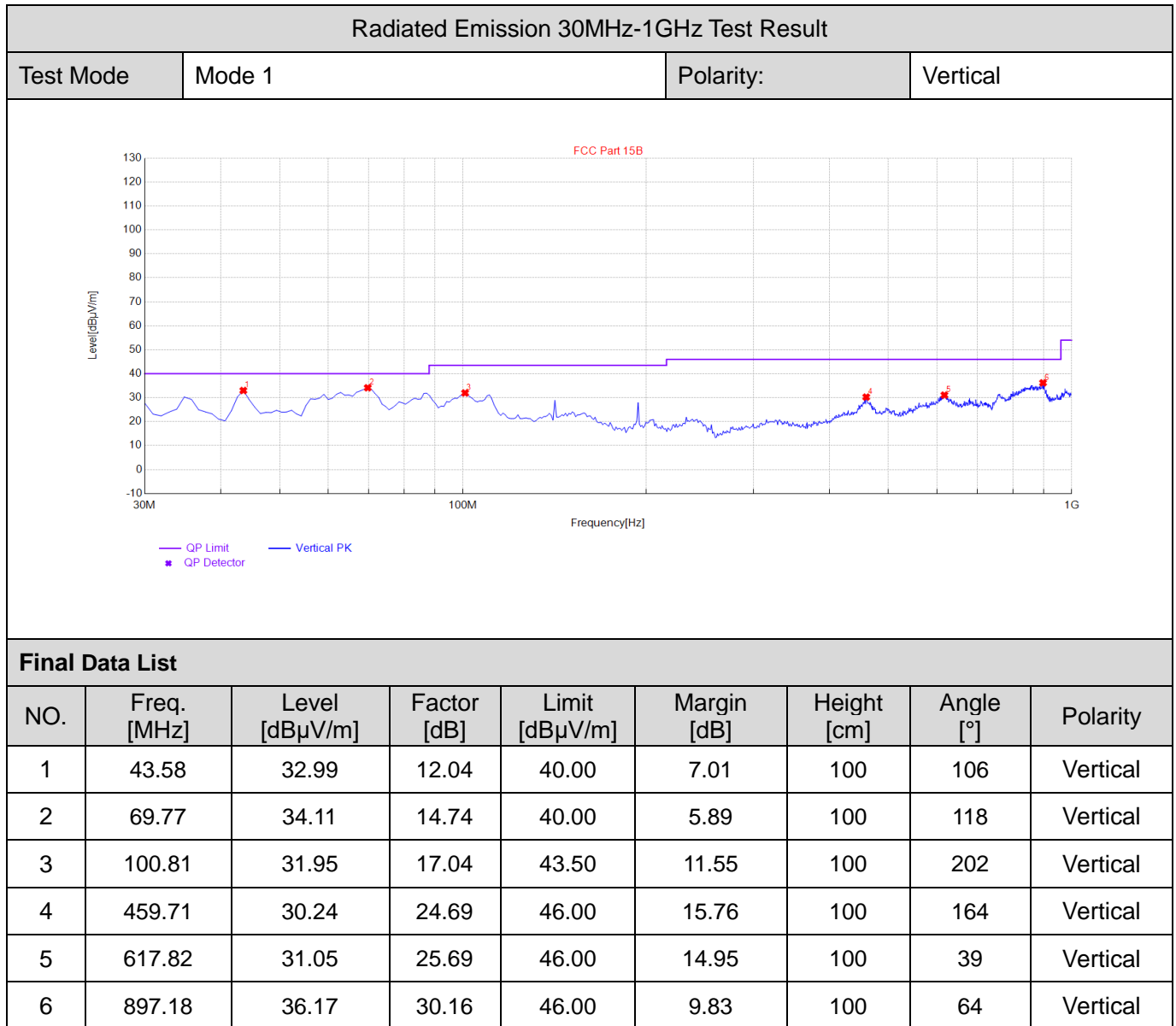
#### EMI Test Receiver Setup:

During the radiated emission test, the EMI test receiver was set with the following configurations:

| Frequency Range   | RBW     | Video B/W | IF B/W  | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 30 MHz – 1000 MHz | 100 kHz | 300 kHz   | 120 kHz | QP          |
| Above 1 GHz       | 1MHz    | 3 MHz     | /       | PK          |
|                   | 1MHz    | 10 Hz     | /       | Ave.        |

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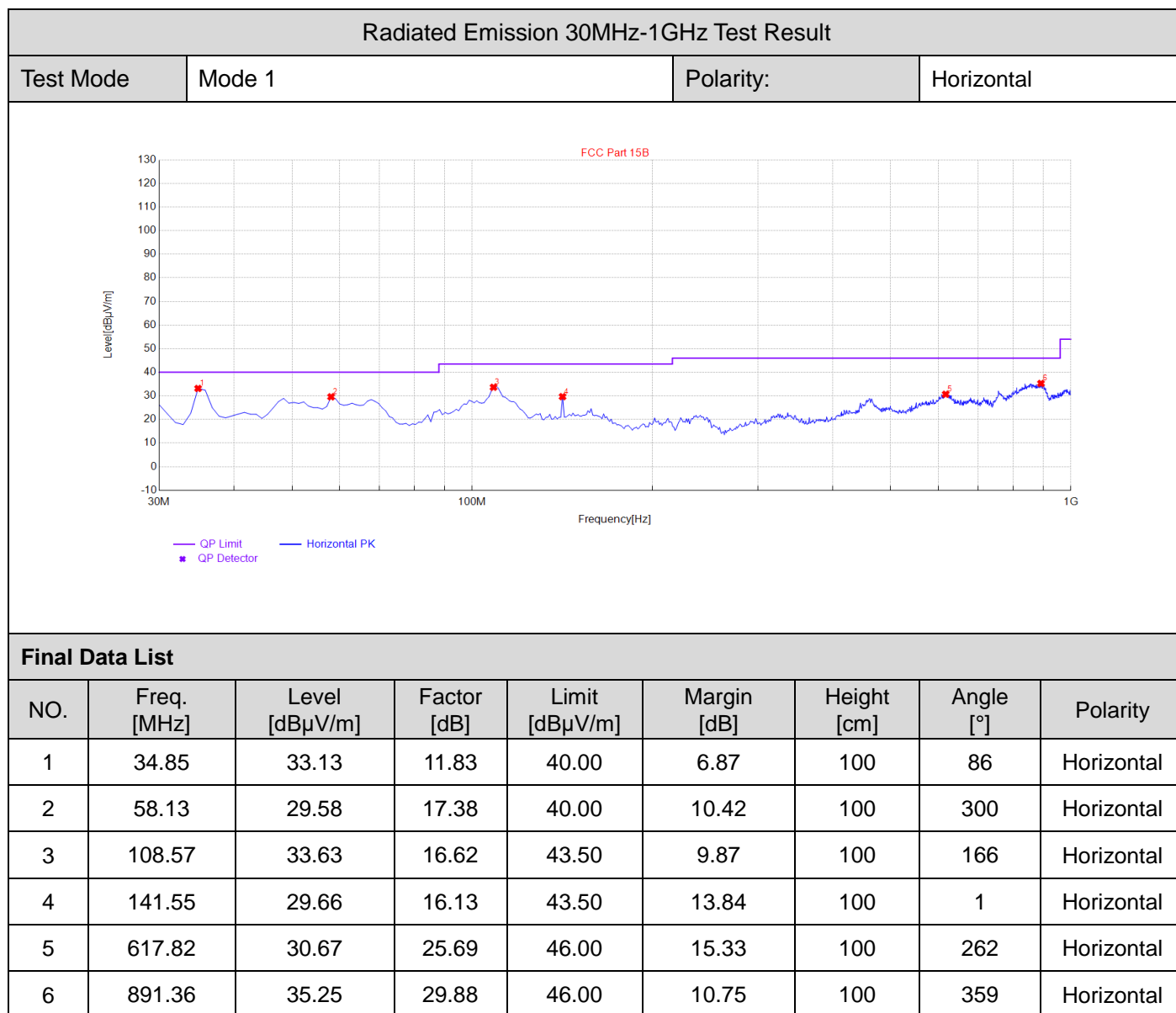
## 5.4 Measurement Result



**RESULT: PASS**

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**RESULT: PASS**

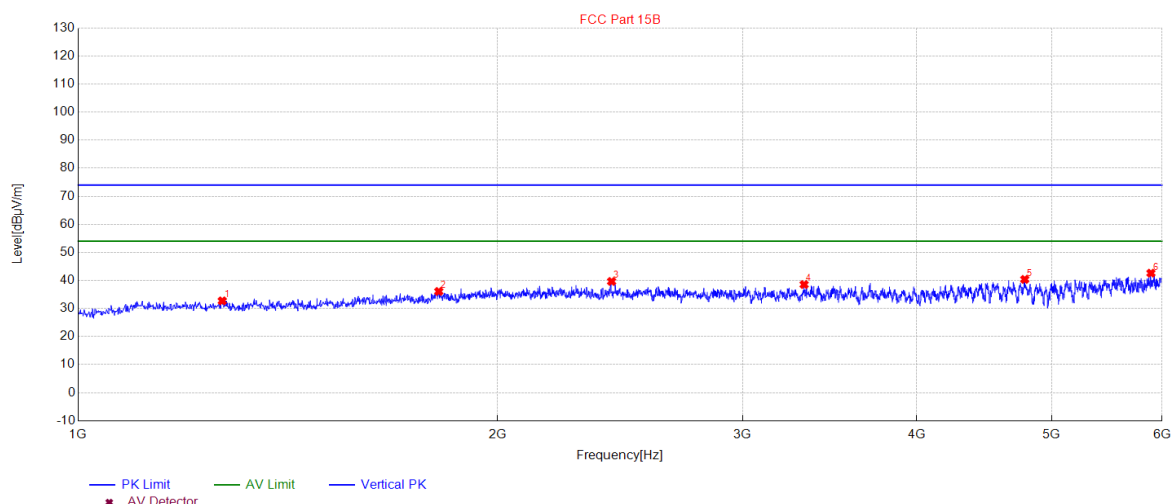
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### Radiated Emission Above 1GHz Test Result

|           |        |           |          |
|-----------|--------|-----------|----------|
| Test Mode | Mode 1 | Polarity: | Vertical |
|-----------|--------|-----------|----------|



### Final Data List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 1269.053811 | 32.71          | -17.91      | 74.00          | 41.29       | 100         | 30        | Vertical |
| 2   | 1815.163033 | 36.07          | -14.94      | 74.00          | 37.93       | 100         | 270       | Vertical |
| 3   | 2415.283057 | 39.64          | -12.40      | 74.00          | 34.36       | 100         | 20        | Vertical |
| 4   | 3320.464093 | 38.53          | -11.12      | 74.00          | 35.47       | 100         | 220       | Vertical |
| 5   | 4781.756351 | 40.37          | -7.82       | 74.00          | 33.63       | 100         | 20        | Vertical |
| 6   | 5890.978196 | 42.60          | -5.72       | 74.00          | 31.40       | 100         | 350       | Vertical |

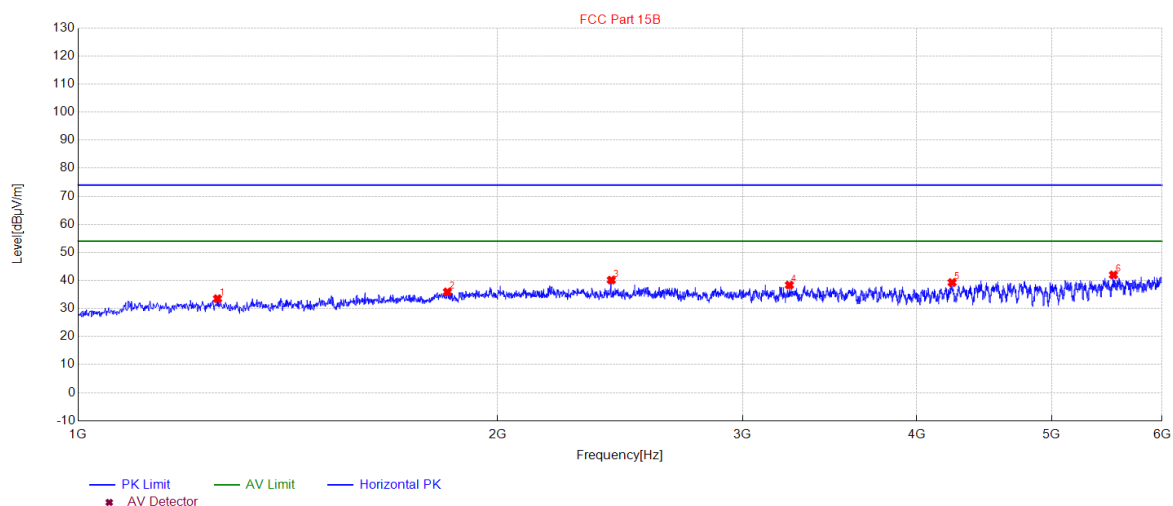
**RESULT: PASS**

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### Radiated Emission Above 1GHz Test Result

|           |        |           |            |
|-----------|--------|-----------|------------|
| Test Mode | Mode 1 | Polarity: | Horizontal |
|-----------|--------|-----------|------------|



### Final Data List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 1259.05181  | 33.49          | -17.93      | 74.00          | 40.51       | 100         | 100       | Horizontal |
| 2   | 1841.168234 | 35.90          | -14.72      | 74.00          | 38.10       | 100         | 340       | Horizontal |
| 3   | 2414.282857 | 40.12          | -12.40      | 74.00          | 33.88       | 100         | 310       | Horizontal |
| 4   | 3240.44809  | 38.34          | -11.33      | 74.00          | 35.66       | 100         | 160       | Horizontal |
| 5   | 4240.64813  | 39.25          | -8.97       | 74.00          | 34.75       | 100         | 20        | Horizontal |
| 6   | 5536.907382 | 41.96          | -6.77       | 74.00          | 32.04       | 100         | 110       | Horizontal |

### RESULT : PASS

#### Note:

- Factor=Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.
- The "Factor" value can be calculated automatically by software of measurement system.

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## 6. Conducted Emission Measurements

### 6.1 Provisions Applicable

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

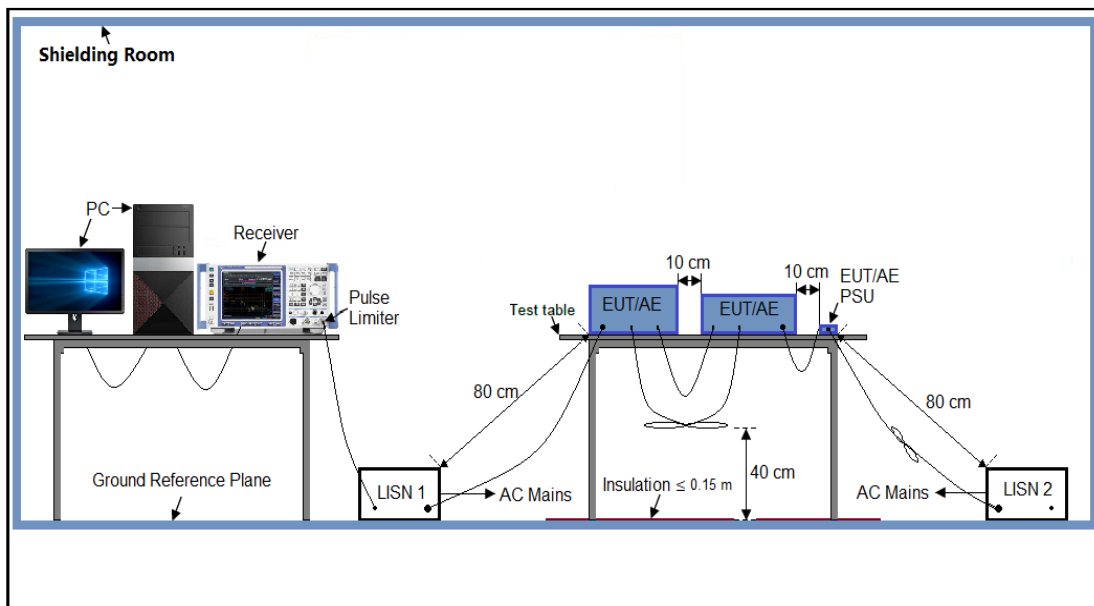
For Class B Limits:

| Frequency     | Maximum RF Line Voltage |                |
|---------------|-------------------------|----------------|
|               | Q.P. (dBμV)             | Average (dBμV) |
| 150kHz~500kHz | 66-56                   | 56-46          |
| 500kHz~5MHz   | 56                      | 46             |
| 5MHz~30MHz    | 60                      | 50             |

For Class A Limits:

| Frequency     | Maximum RF Line Voltage |                |
|---------------|-------------------------|----------------|
|               | Q.P. (dBμV)             | Average (dBμV) |
| 150kHz~500kHz | 79                      | 66             |
| 500kHz~30MHz  | 73                      | 60             |

### 6.2 Measurement Setup



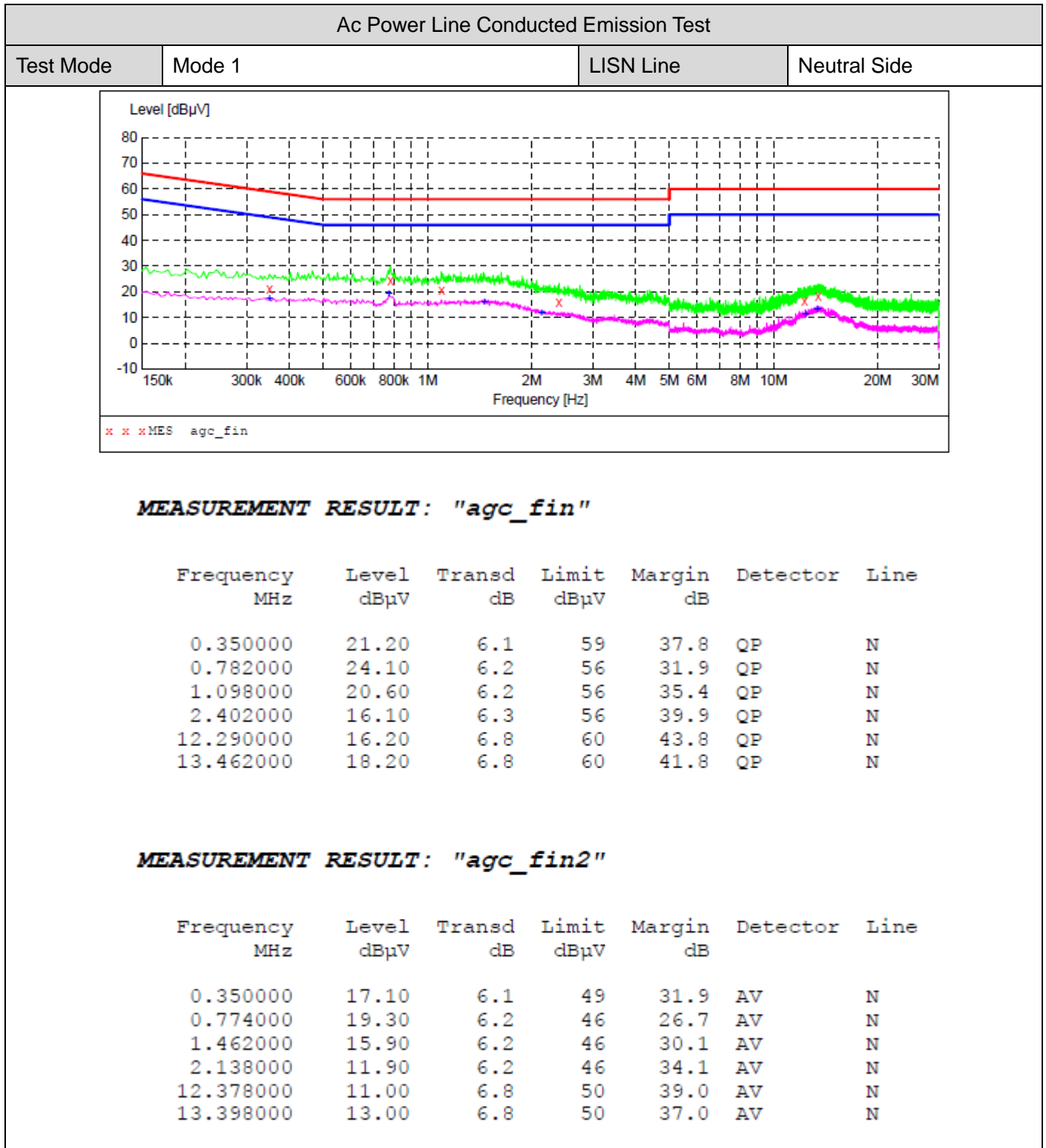
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### 6.3 Measurement Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When 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 C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. The EUT received AC 120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipment 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.
9. The test data of the worst case condition (Mode 1) was reported on the following Data page.

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## 6.4 Measurement Result

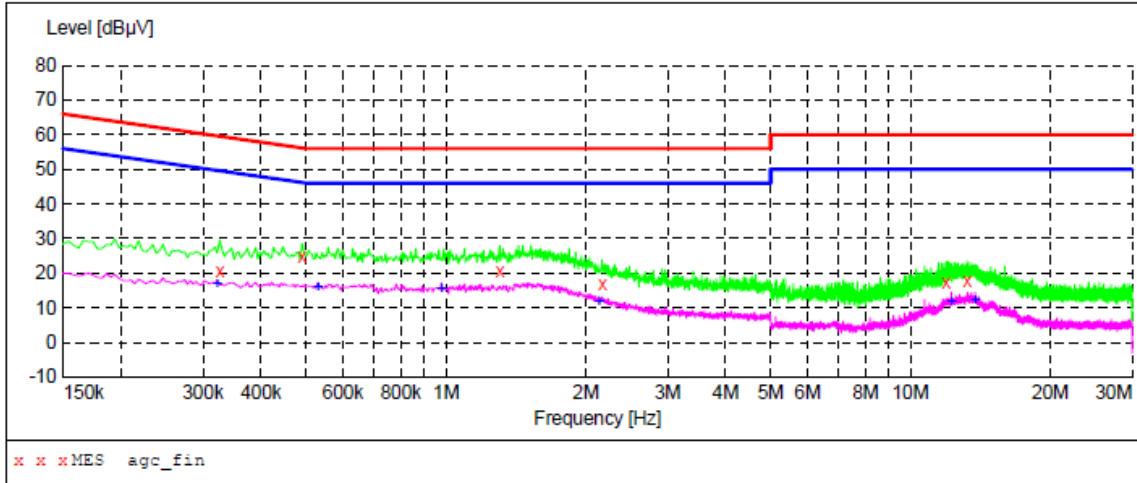


## RESULT: PASS

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### Ac Power Line Conducted Emission Test

|           |        |           |          |
|-----------|--------|-----------|----------|
| Test Mode | Mode 1 | LISN Line | Hot Side |
|-----------|--------|-----------|----------|



#### MEASUREMENT RESULT: "agc\_fin"

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line |
|------------------|---------------|--------------|---------------|--------------|----------|------|
| 0.326000         | 20.80         | 6.1          | 60            | 38.8         | QP       | L1   |
| 0.490000         | 24.60         | 6.1          | 56            | 31.6         | QP       | L1   |
| 1.306000         | 20.70         | 6.2          | 56            | 35.3         | QP       | L1   |
| 2.170000         | 16.60         | 6.3          | 56            | 39.4         | QP       | L1   |
| 11.950000        | 17.20         | 6.7          | 60            | 42.8         | QP       | L1   |
| 13.238000        | 17.70         | 6.8          | 60            | 42.3         | QP       | L1   |

#### MEASUREMENT RESULT: "agc\_fin2"

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line |
|------------------|---------------|--------------|---------------|--------------|----------|------|
| 0.322000         | 17.00         | 6.1          | 50            | 32.7         | AV       | L1   |
| 0.530000         | 16.10         | 6.2          | 46            | 29.9         | AV       | L1   |
| 0.978000         | 15.60         | 6.2          | 46            | 30.4         | AV       | L1   |
| 2.134000         | 11.90         | 6.2          | 46            | 34.1         | AV       | L1   |
| 12.258000        | 11.70         | 6.8          | 50            | 38.3         | AV       | L1   |
| 13.786000        | 12.40         | 6.8          | 50            | 37.6         | AV       | L1   |

### RESULT: PASS

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## **Appendix I: Photographs of Test Setup**

Refer to the Report No.: AGC12903250201AP02

## **Appendix II: Photographs of Test EUT**

Refer to the Report No.: AGC12903250201AP03

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9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

**-----End of Report-----**

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