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# FCC Test Report

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Report No.: AGC02931201101FE08

**FCC ID** : 2AWYH-GMR5-MOB  
**PRODUCT DESIGNATION** : Analog transceiver  
**BRAND NAME** : Rugged Radios  
**MODEL NAME** : GMR5-M  
**APPLICANT** : Rugged Radios  
**DATE OF ISSUE** : Nov. 13, 2020  
**STANDARD(S)** : FCC Part 15 Rules  
**REPORT VERSION** : V 1.0

**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           | /           | Nov. 13, 2020 | Valid         | Initial release |

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## 1. VERIFICATION OF COMPLIANCE

|                                 |                                          |
|---------------------------------|------------------------------------------|
| <b>Applicant:</b>               | Rugged Radios                            |
| <b>Address</b>                  | 951 E Grand Ave, Arroyo Grande, CA 93420 |
| <b>Manufacturer:</b>            | Rugged Radios                            |
| <b>Address</b>                  | 951 E Grand Ave, Arroyo Grande, CA 93420 |
| <b>Factory</b>                  | Rugged Radios                            |
| <b>Address</b>                  | 951 E Grand Ave, Arroyo Grande, CA 93420 |
| <b>Product Designation:</b>     | Analog transceiver                       |
| <b>Brand Name:</b>              | Rugged Radios                            |
| <b>Test Model</b>               | GMR5-M                                   |
| <b>Measurement Procedure</b>    | ANSI C63.4: 2014                         |
| <b>Deviation</b>                | No any deviation from the test method.   |
| <b>Date of Test:</b>            | Nov. 12, 2020~Nov. 13, 2020              |
| <b>Condition of Test Sample</b> | Normal                                   |
| <b>Test Result</b>              | Pass                                     |
| <b>Report Template</b>          | AGCRT-US-PTT/EMC                         |

The above equipment was tested by Attestation Of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2014. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements. The test results of this report relate only to the tested sample identified in this report.

Prepared By



Donjon Huang  
(Project Engineer)

Nov. 13, 2020

Reviewed By



Calvin Liu  
(Reviewer)

Nov. 13, 2020

Approved By



Forrest Lei  
Authorized Officer

Nov. 13, 2020

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## 2. PRODUCT INFORMATION

The EUT is a **Two-way radio** designed for voice communication. It is designed by way of utilizing the F3E modulation achieves the system operating.

A major technical description of EUT is described as following:

|                            |                                   |
|----------------------------|-----------------------------------|
| <b>Communication Type</b>  | Voice / Tone only                 |
| <b>Modulation</b>          | FM                                |
| <b>RX Frequency Range</b>  | RX: 136MHz-174MHz; 400MHz -480MHz |
| <b>Emission Type</b>       | F3E                               |
| <b>Antenna Designation</b> | Detachable                        |
| <b>Antenna Gain</b>        | 1.5dBi                            |
| <b>Hardware Version</b>    | VER:1.2                           |
| <b>Software Version</b>    | V1.0.2                            |
| <b>Power Supply</b>        | DC 13.8V                          |

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

| I/O Port of EUT |      |                 |             |
|-----------------|------|-----------------|-------------|
| I/O Port Type   | Q'TY | Cable           | Tested with |
| Antenna Port    | 1    | 15m, Unshielded | 1           |

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### 3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

|                                   |                                                                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site                         | Attestation of Global Compliance (Shenzhen) Co., Ltd                                                                                     |
| Location                          | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Designation Number                | CN1259                                                                                                                                   |
| FCC Test Firm Registration Number | 975832                                                                                                                                   |
| A2LA Cert. No.                    | 5054.02                                                                                                                                  |
| Description                       | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA                                                                |

#### List of Test Equipment:

##### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment     | Manufacturer | Model   | S/N    | Cal. Date     | Cal. Due      |
|---------------|--------------|---------|--------|---------------|---------------|
| TEST RECEIVER | R&S          | ESPI    | 101206 | May 15, 2020  | May 14, 2021  |
| LISN          | R&S          | ESH2-Z5 | 100086 | Jul. 03, 2020 | Jul. 02, 2021 |

##### TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment                 | Manufacturer | Model    | S/N         | Cal. Date     | Cal. Due      |
|---------------------------|--------------|----------|-------------|---------------|---------------|
| TEST RECEIVER             | R&S          | ESPI     | 101206      | May 15, 2020  | May 14, 2021  |
| ANTENNA                   | SCHWARZBECK  | VULB9168 | 494         | Jan. 09, 2019 | Jan. 08, 2021 |
| ANTENNA                   | SCHWARZBECK  | VULB9168 | D69250      | Oct. 13, 2020 | Sep. 17, 2021 |
| POSITIONING CONTROLLER    | MF           | MF-7802  | MF780208285 | --            | --            |
| HORN ANTENNA              | ETS LINDGREN | 3117     | 00034609    | May. 16, 2019 | May. 15, 2021 |
| RF Communication Test Set | HP           | 8920B    | --          | Jul. 10, 2020 | Jul. 09, 2021 |
| EXA Signal Analyzer       | Agilent      | N9020A   | MY53300860  | July 15, 2020 | July 14, 2021 |
| Attenuator                | Schaffner    | 58-30-33 | ML030       | Oct. 26, 2020 | Oct. 25, 2021 |

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#### 4. SUPPORT EQUIPMENT LIST

| Device Type     | Manufacturer | Model Name | Serial No. | Data Cable | Power Cable     |
|-----------------|--------------|------------|------------|------------|-----------------|
| Car Charger     | -            | GMR5-M     | -          | -          | 1.0m Unshielded |
| Hand microphone | -            | HM-RH      | -          | -          | 1.5m Unshielded |
| Antenna         | -            | GMR5-MAG   | -          | -          | 15m Unshielded  |

#### 5. SYSTEM DESCRIPTION

##### EUT test procedure:

1. Connect EUT and peripheral devices.
2. Power on the EUT, the EUT begins to work.
3. Make sure the EUT normal working.

##### EMC TEST MODES

| No. | TEST MODES                                                         |
|-----|--------------------------------------------------------------------|
| 1   | Scanning mode                                                      |
| 2   | Scanning stopped/Receiving at low channel of 136 MHz to 174 MHz    |
| 3   | Scanning stopped/Receiving at middle channel of 136 MHz to 174 MHz |
| 4   | Scanning stopped/Receiving at high channel of 136 MHz to 174 MHz   |
| 5   | Scanning stopped/Receiving at low channel of 400 MHz to 480 MHz    |
| 6   | Scanning stopped/Receiving at middle channel of 400 MHz to 480 MHz |
| 7   | Scanning stopped/Receiving at high channel of 400 MHz to 480 MHz   |

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

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## 6. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission,  $U_c = \pm 3.1$  dB
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 4.0$  dB
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8$  Db

## 7. SUMMARY OF TEST RESULTS

| FCC Rules  | Description Of Test                                                      | Result         |
|------------|--------------------------------------------------------------------------|----------------|
| §15.107    | Conduction Emission                                                      | Not applicable |
| §15.109    | Radiated Emission                                                        | Compliant      |
| §15.111    | Antenna Conducted Power for receivers                                    | Compliant      |
| §15.121(b) | Scanning receivers and frequency converters used with scanning receivers | Compliant      |

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## 8. FCC RADIATED EMISSION TEST

### 8.1. TEST EQUIPMENT OF RADIATED EMISSION

### 8.2. LIMITS OF RADIATED EMISSION TEST

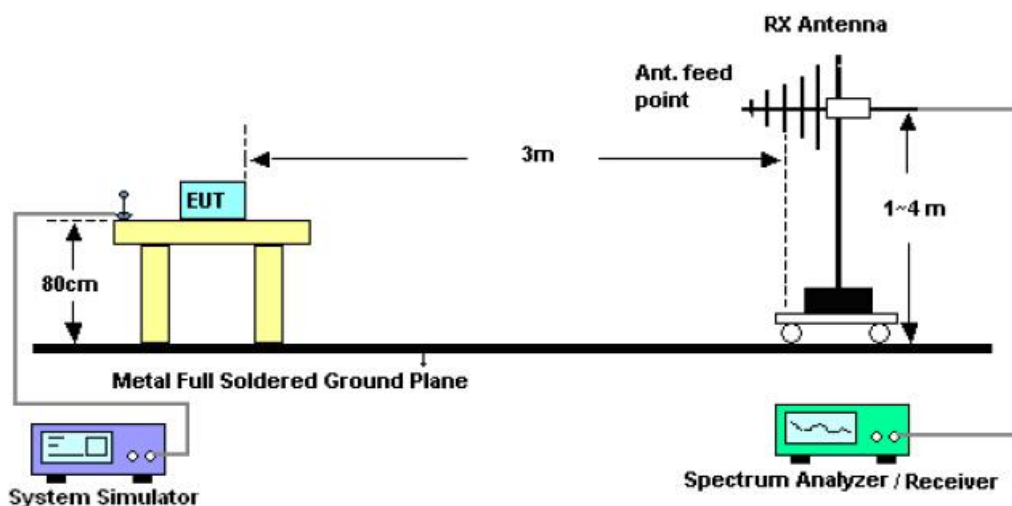
| Frequency<br>(MHz) | Distance<br>(m) | Maximum Field Strength Limit<br>(dBuV/m/ Q.P.) |
|--------------------|-----------------|------------------------------------------------|
| 30~88              | 3               | 40.0                                           |
| 88~216             | 3               | 43.5                                           |
| 216~960            | 3               | 46.0                                           |
| ABOVE 960          | 3               | 54.0                                           |

| Frequency<br>(MHz) | Distance<br>(m) | Maximum Field Strength Limit<br>(dBuV/m/ P.K.) | Maximum Field Strength Limit<br>(dBuV/m/ A.V.) |
|--------------------|-----------------|------------------------------------------------|------------------------------------------------|
| ABOVE 1G           | 3               | 74                                             | 54                                             |

\*\*Note: The lower limit shall apply at the transition frequency. Because the EUT RX frequency range up to 480 MHz, so the upper the frequency range up to 2 GHz.

### 8.3 BLOCK DIAGRAM OF RADIATED EMISSION TEST

RADIATED EMISSION TEST SETUP 30MHz-1000MHz

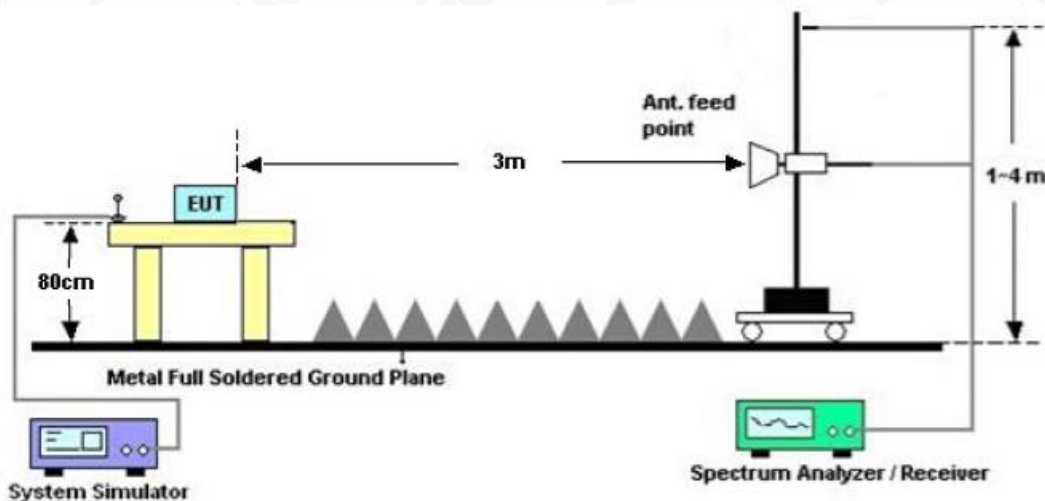


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# RADIATED EMISSION TEST SETUP ABOVE 1000MHZ



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#### 8.4 PROCEDURE OF RADIATED EMISSION TEST

- 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

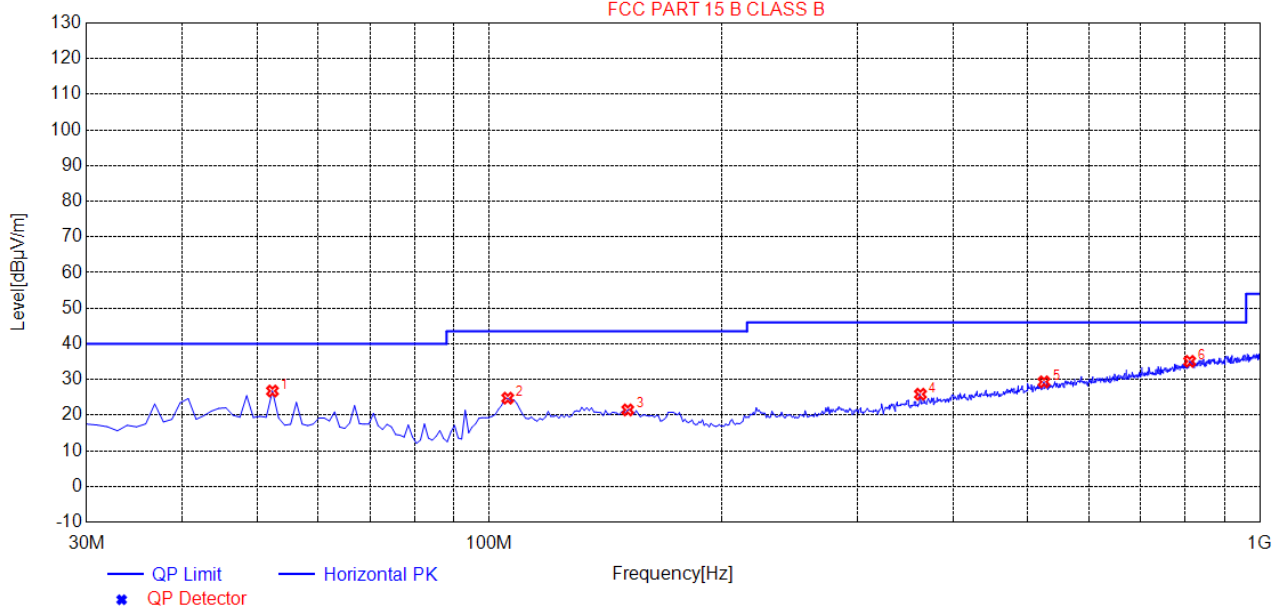
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## 8.5 TEST RESULT OF RADIATED EMISSION TEST

### Radiated Emission Test –Horizontal -3m Below 1G

FCC PART 15 B CLASS B



| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 52.3100     | 26.76          | 11.49       | 40.00          | 13.24       | 100         | 150       | Horizontal |
| 2   | 105.6600    | 24.76          | 11.96       | 43.50          | 18.74       | 200         | 246       | Horizontal |
| 3   | 151.2500    | 21.46          | 14.89       | 43.50          | 22.04       | 200         | 68        | Horizontal |
| 4   | 362.7100    | 25.87          | 18.34       | 46.00          | 20.13       | 100         | 176       | Horizontal |
| 5   | 524.7000    | 29.33          | 22.72       | 46.00          | 16.67       | 100         | 294       | Horizontal |
| 6   | 810.8500    | 35.09          | 28.64       | 46.00          | 10.91       | 100         | 49        | Horizontal |

**RESULT: PASS**

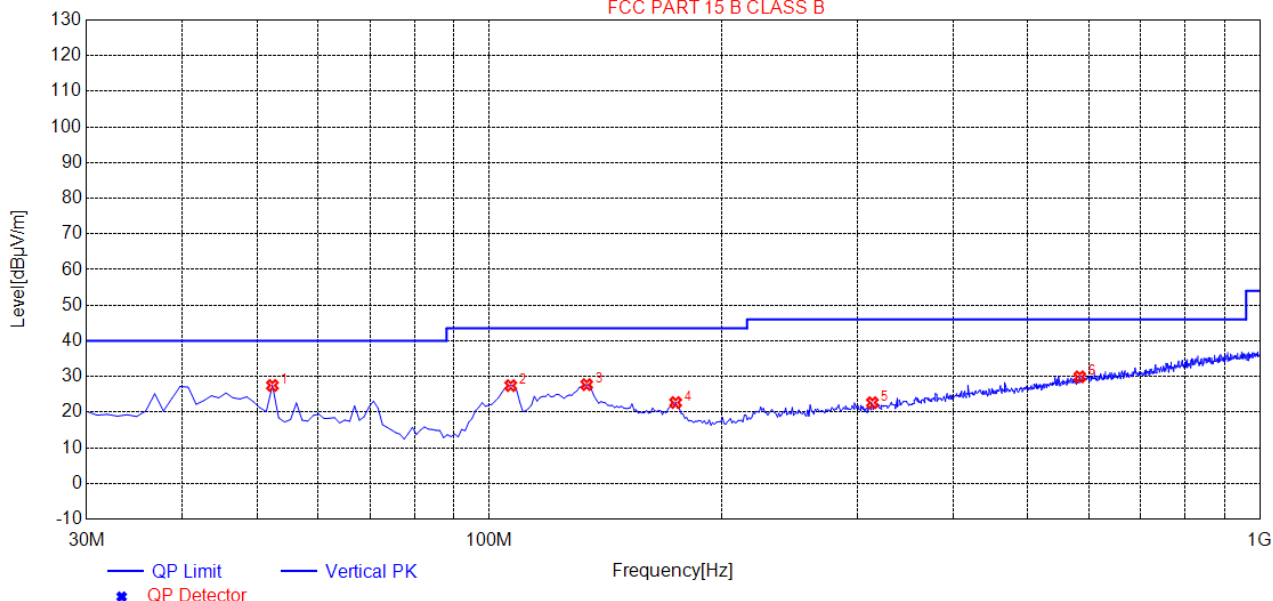
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### Radiated Emission Test –Vertical -3m Below 1G

FCC PART 15 B CLASS B



| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 52.3100     | 27.49          | 11.49       | 40.00          | 12.51       | 100         | 251       | Vertical |
| 2   | 106.6300    | 27.44          | 12.07       | 43.50          | 16.06       | 100         | 88        | Vertical |
| 3   | 133.7900    | 27.73          | 14.42       | 43.50          | 15.77       | 100         | 101       | Vertical |
| 4   | 174.5300    | 22.69          | 13.52       | 43.50          | 20.81       | 100         | 257       | Vertical |
| 5   | 314.2100    | 22.65          | 16.44       | 46.00          | 23.35       | 100         | 322       | Vertical |
| 6   | 583.8700    | 29.91          | 23.99       | 46.00          | 16.09       | 100         | 244       | Vertical |

**RESULT: PASS**

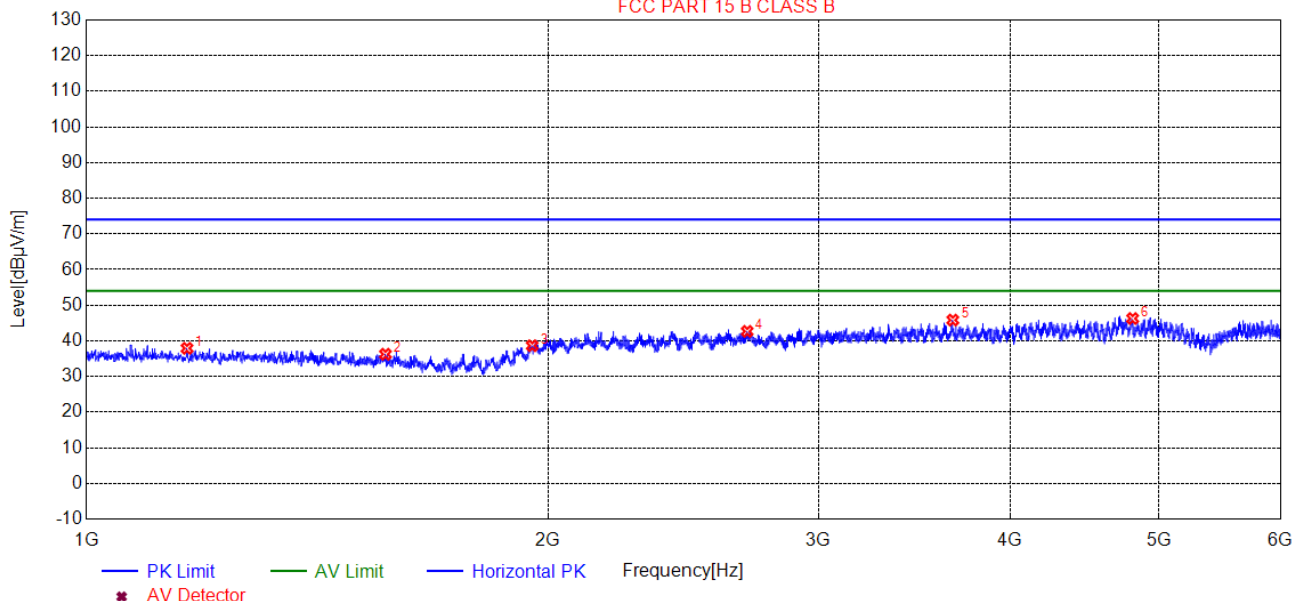
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### Radiated Emission Test –Horizontal -3m Above 1G

FCC PART 15 B CLASS B



| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 1163.0163   | 37.90          | -16.80      | 74.00          | 36.10       | 100         | 350       | Horizontal |
| 2   | 1566.5567   | 36.24          | -16.42      | 74.00          | 37.76       | 100         | 140       | Horizontal |
| 3   | 1952.5953   | 38.63          | -12.32      | 74.00          | 35.37       | 100         | 210       | Horizontal |
| 4   | 2696.1696   | 42.65          | -9.57       | 74.00          | 31.35       | 100         | 190       | Horizontal |
| 5   | 3670.7671   | 45.82          | -7.22       | 74.00          | 28.18       | 100         | 170       | Horizontal |
| 6   | 4807.8808   | 46.26          | -4.90       | 74.00          | 27.74       | 100         | 180       | Horizontal |

**RESULT: PASS**

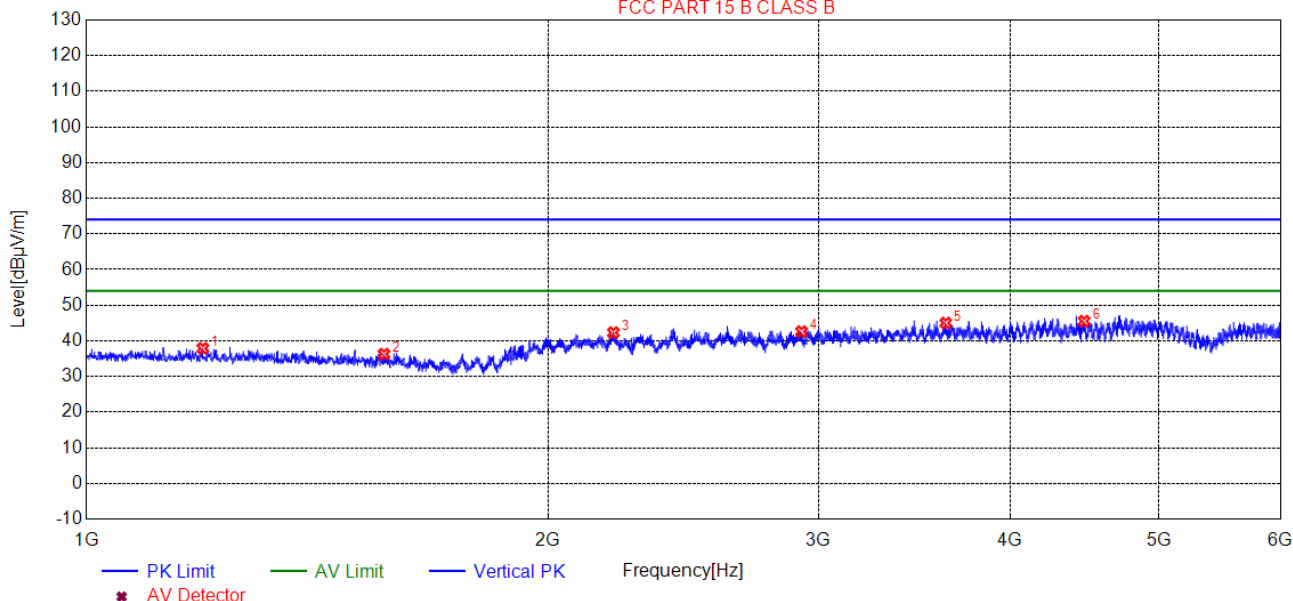
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

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### Radiated Emission Test –Vertical -3m Above 1G

FCC PART 15 B CLASS B



| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 1191.0191   | 37.89          | -16.83      | 74.00          | 36.11       | 100         | 200       | Vertical |
| 2   | 1563.0563   | 36.28          | -16.46      | 74.00          | 37.72       | 100         | 130       | Vertical |
| 3   | 2205.6206   | 42.30          | -10.96      | 74.00          | 31.70       | 100         | 300       | Vertical |
| 4   | 2925.1925   | 42.60          | -9.39       | 74.00          | 31.40       | 100         | 80        | Vertical |
| 5   | 3632.2632   | 45.00          | -7.31       | 74.00          | 29.00       | 100         | 240       | Vertical |
| 6   | 4470.3470   | 45.51          | -5.28       | 74.00          | 28.49       | 100         | 340       | Vertical |

### RESULT: PASS

**Note:** 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Measurement.  
2. The "Factor" value can be calculated automatically by software of measurement system.

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## 9. CONDUCTED EMISSION TEST

### 9.1 PROVISIONS APPLICABLE

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the, the radio frequency voltage that is conducted back onto the AC power line on any frequencies within the band 150 KHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50uH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

| Frequency of Emission (MHz) | Conducted Limit(dBuV) |            |
|-----------------------------|-----------------------|------------|
|                             | Quasi-Peak            | Average    |
| 0.15 – 0.5                  | 66 to 56 *            | 56 to 46 * |
| 0.5 – 5                     | 56                    | 46         |
| 5 – 30                      | 60                    | 50         |

\* Decreases with the logarithm of the frequency.

### 9.2 MEASUREMENT PROCEDURE

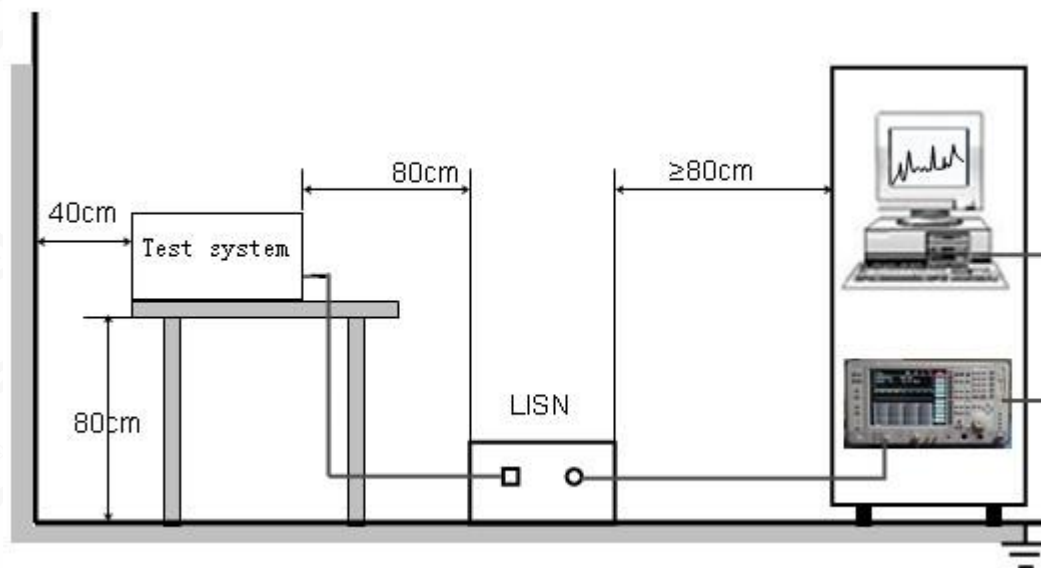
- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground 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 equipments received AC power from a second LISN, if any.
- (6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (7) Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.  
During the above scans, the emissions were maximized by cable manipulation.

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### 9.3 TEST SETUP BLOCK DIAGRAM



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#### 9.4 TEST RESULT

Not applicable

Note: The product is powered by a DC power supply, so no evaluation is required.

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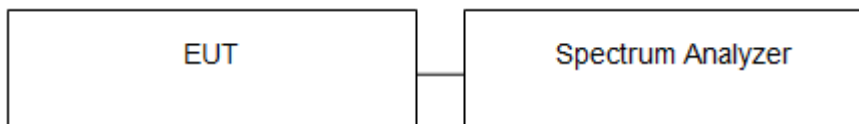
## 10. ANTENNA CONDUCTED POWER FOR RECEIVERS

### LIMIT

The antenna conducted power of the receiver as defined in §15.111 shall not exceed the values given in the following tables

| Frequency Range | 9 KHz to 2GHz     |
|-----------------|-------------------|
| Limit           | 2.0 nW (-57 dBm ) |

### TEST CONFIGURATION



### TEST PROCEDURE

1. The receiver antenna terminal connected to a spectrum analyzer.
2. The test data of the worst case condition (mode 1) was reported on the following Data page.

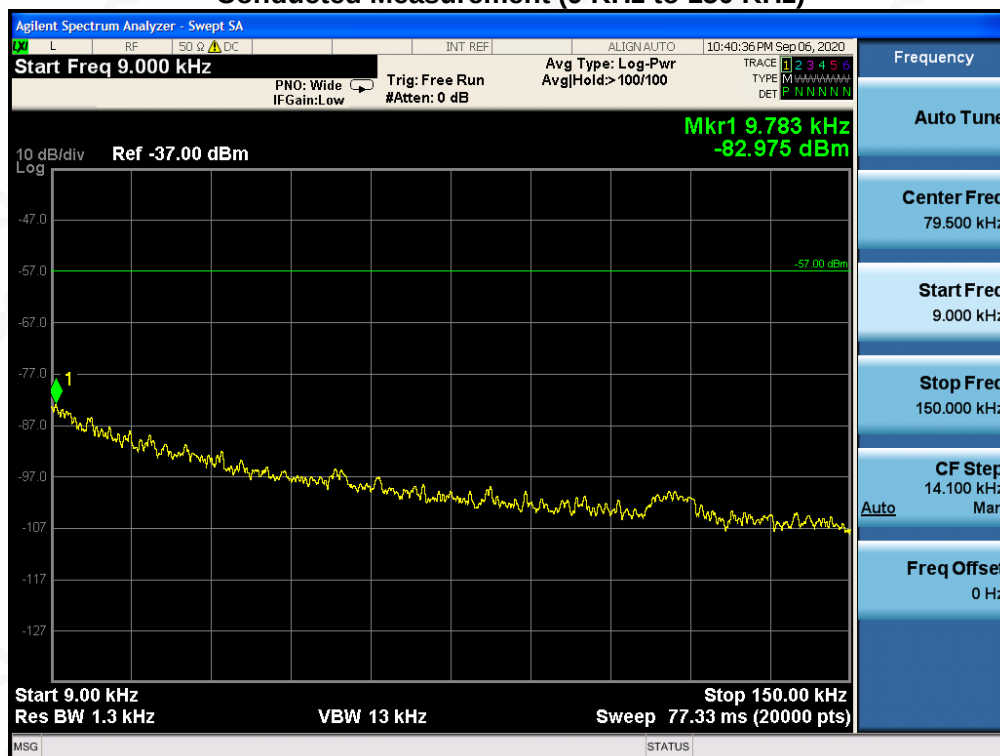
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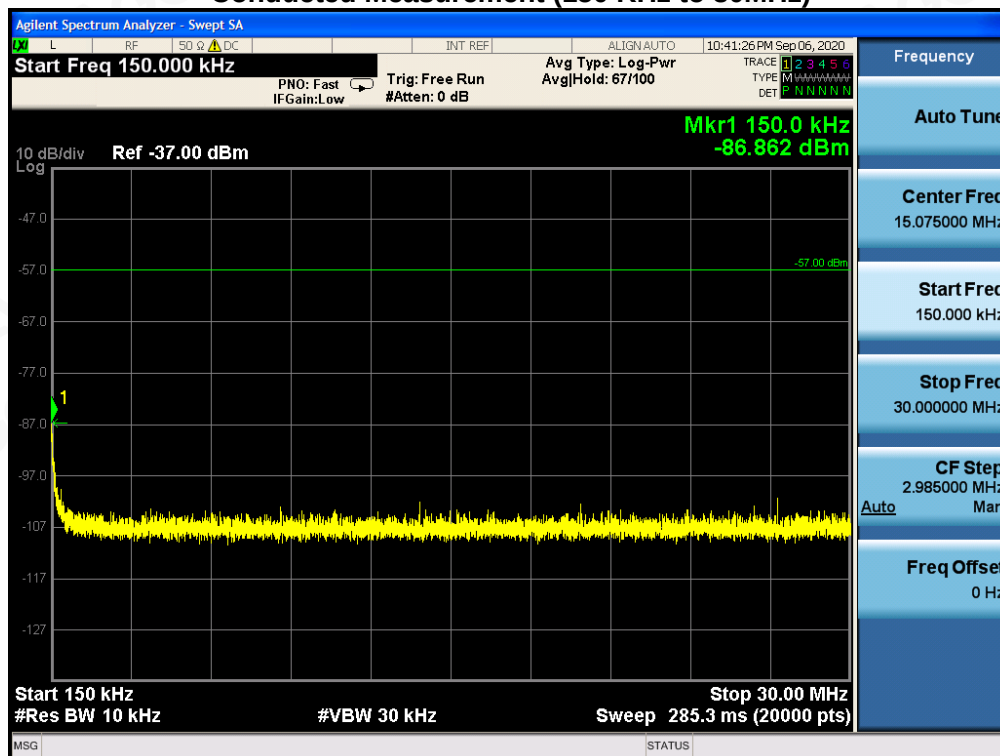


## TEST RESULTS

### Conducted Measurement (9 KHz to 150 KHz)



### Conducted Measurement (150 KHz to 30MHz)

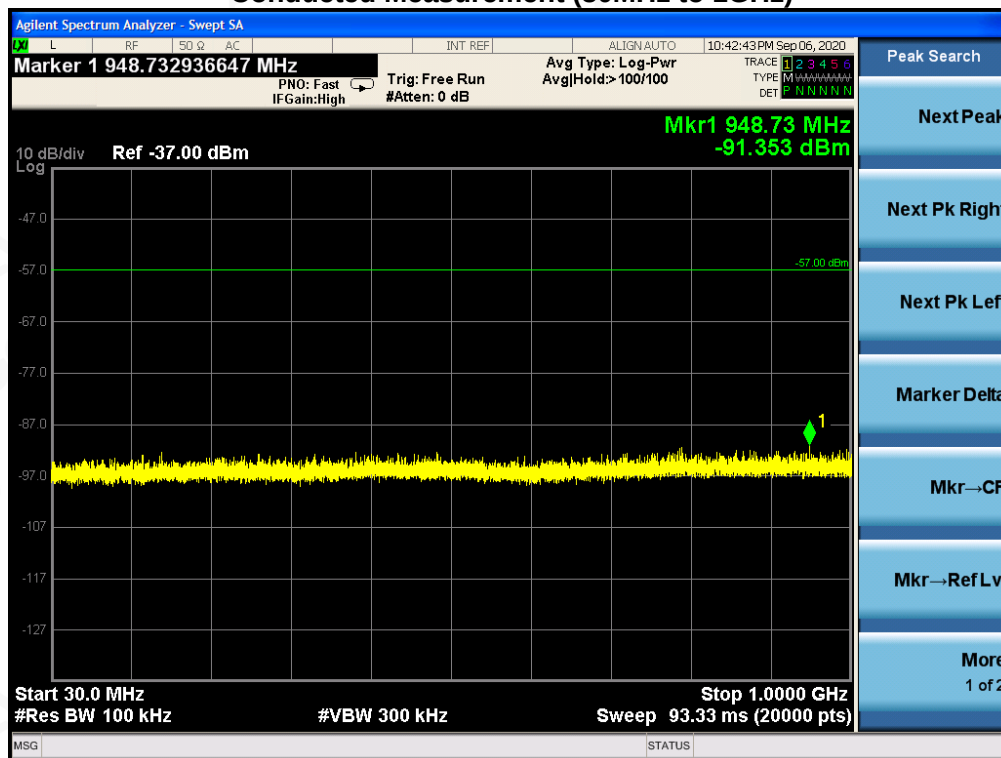


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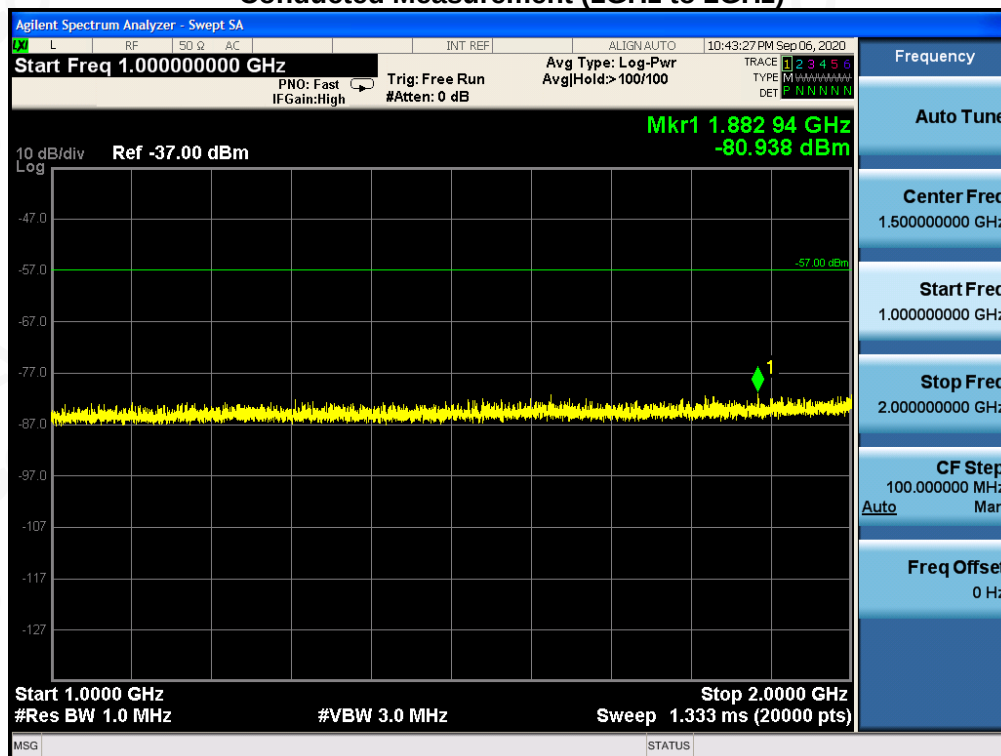
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### Conducted Measurement (30MHz to 1GHz)



### Conducted Measurement (1GHz to 2GHz)



**RESULT: PASS**

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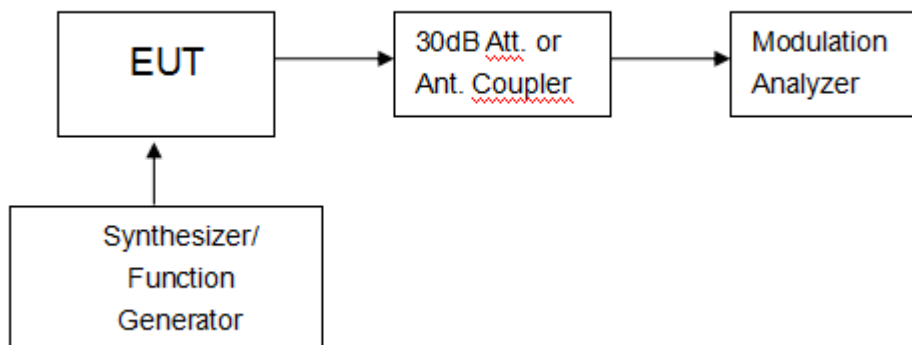


## 11. SANNING RECEIVERS AND FREQUENCY CONVERTERS USED WITH SANNING RECEIVERS.

### LIMIT

Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

### TEST CONFIGURATION



### TEST PROCEDURE

Please review the FCC Part 15.121 b section requirements to meet the testing process

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## TEST RESULTS

### VHF:

| Frequency Range(MHz) | Channel | Measurement Result (dB) | Limit(dB) | Result |
|----------------------|---------|-------------------------|-----------|--------|
| 136-174              | Bottom  | 43                      | > 38      | Pass   |
| 136-174              | Middle  | 47                      | > 38      | Pass   |
| 136-174              | Top     | 46                      | > 38      | Pass   |

### UHF:

| Frequency Range(MHz) | Channel | Measurement Result (dB) | Limit(dB) | Result |
|----------------------|---------|-------------------------|-----------|--------|
| 400-480              | Bottom  | 48                      | > 38      | Pass   |
| 400-480              | Middle  | 44                      | > 38      | Pass   |
| 400-480              | Top     | 42                      | > 38      | Pass   |

- Note:1.This device meets the requirements of FCC PART 15.121.b  
2.The test report only shows the worst test results

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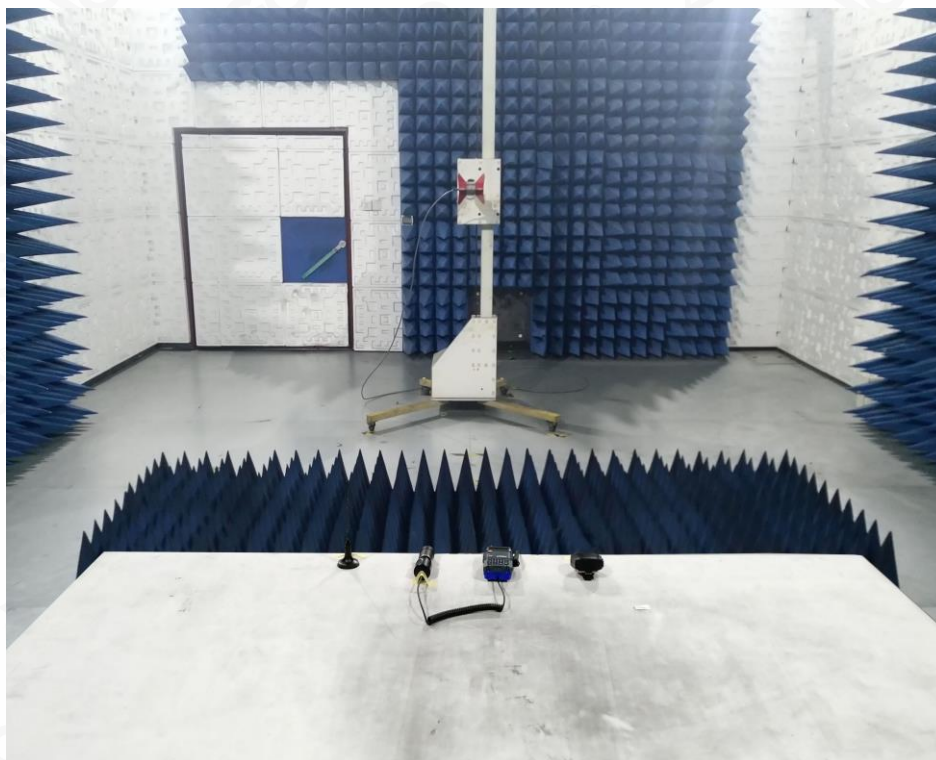


## APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

### RADIATED EMISSION TEST SETUP-BELOW 1GHZ



### RADIATED EMISSION TEST SETUP-ABOVE 1GHZ



----END OF REPORT----

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## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. 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.

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