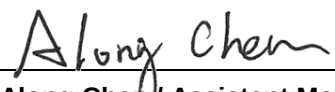


# FCC Test Report

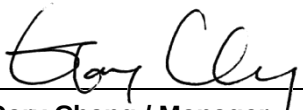
**FCC ID** : IPH-04390  
**Equipment** : Smart Watch  
**Model No.** : A04390  
**Brand Name** : GARMIN  
**Applicant** : Garmin International, Inc.  
**Address** : 1200 E. 151st Street Olathe, KS 66062 United States  
**Standard** : 47 CFR FCC Part 15.225  
**Received Date** : Apr. 07, 2022  
**Tested Date** : Apr. 23 ~ May 10, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

  
Along Chen / Assistant Manager

Approved by:

  
Gary Chang / Manager

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## Release Record

| Report No. | Version | Description   | Issued Date   |
|------------|---------|---------------|---------------|
| FR240702NF | Rev. 01 | Initial issue | Jun. 01, 2022 |

## Summary of Test Results

| FCC Rules     | Test Items                                                                      | Measured                                         | Result |
|---------------|---------------------------------------------------------------------------------|--------------------------------------------------|--------|
| 15.207        | AC Power Line Conducted Emissions                                               | [dBuV]: 0.788MHz<br>25.45 (Margin -20.55dB) - AV | Pass   |
| 15.225(a)~(c) | Field strength of fundamental emissions and spectrum mask                       | Meet the requirement of limit                    | Pass   |
| 15.225(d)     | Field strength of any emissions appearing outside of the 13.110-14.010 MHz band | Meet the requirement of limit                    | Pass   |
| 15.225(e)     | Frequency tolerance                                                             | Meet the requirement of limit                    | Pass   |
| 15.215 (c)    | 20dB bandwidth                                                                  | Meet the requirement of limit                    | Pass   |
| 15.203        | Antenna Requirement                                                             | Meet the requirement of limit                    | Pass   |

### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

# 1 General Description

## 1.1 Information

### 1.1.1 Specification of the Equipment under Test (EUT)

| RF General Information |            |                     |                |
|------------------------|------------|---------------------|----------------|
| Frequency Range (MHz)  | Modulation | Ch. Frequency (MHz) | Channel Number |
| 13.553 – 13.567        | ASK        | 13.56               | 1              |

### 1.1.2 Antenna Details

| Ant. No. | Brand             | Model          | Type | Connector | Gain (dBi) | Remarks |
|----------|-------------------|----------------|------|-----------|------------|---------|
| 1        | INPAQ TECH CO LTD | NF-C-F9-R0-120 | Loop | No        | ---        | ---     |

### 1.1.3 EUT Operational Condition

|                      |                                                   |                                                   |                                                   |
|----------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Power Type           | 5Vdc from adapter<br>3.87Vdc from battery         |                                                   |                                                   |
| Operational Voltage  | <input checked="" type="checkbox"/> Vnom (3.87 V) | <input checked="" type="checkbox"/> Vmax (4.50 V) | <input checked="" type="checkbox"/> Vmin (3.60 V) |
| Operational Climatic | <input checked="" type="checkbox"/> Tnom (20°C)   | <input checked="" type="checkbox"/> Tmax (55°C)   | <input checked="" type="checkbox"/> Tmin (-20°C)  |

### 1.1.4 Accessories

| No. | Equipment | Description                                                               |
|-----|-----------|---------------------------------------------------------------------------|
| 1   | Battery   | Brand: Garmin<br>Model: 361-00136-20<br>Power Rating: 3.87V, 205mAh       |
| 2   | USB cable | Brand: GARMIN<br>Model: 320-01069-10<br>Line: 0.52m shielded without core |

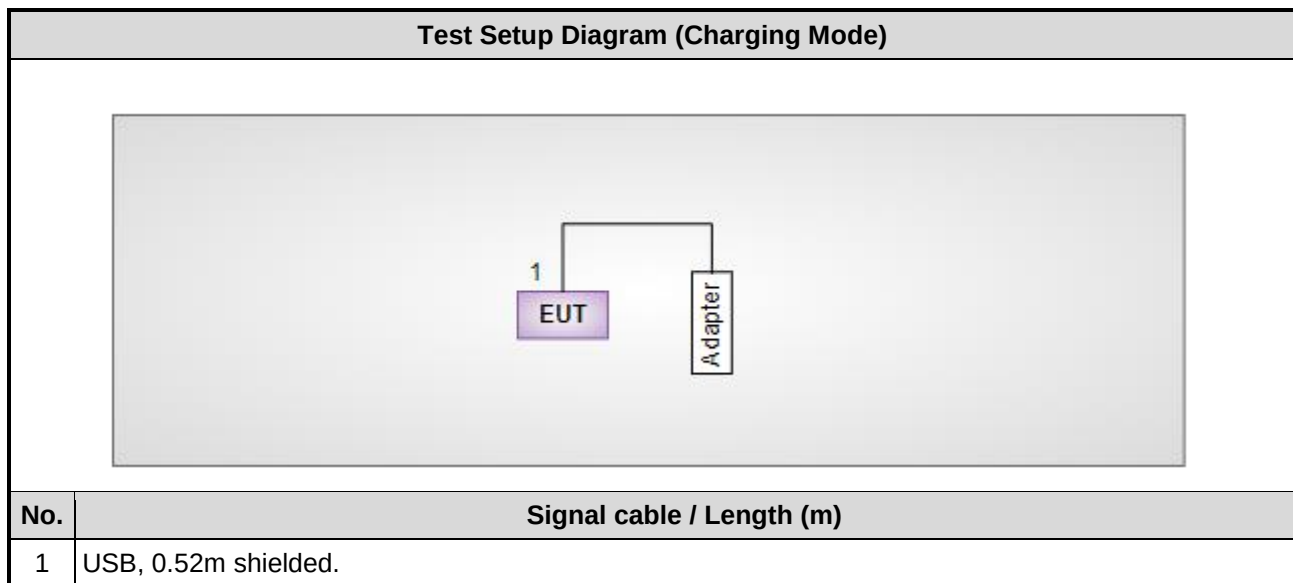
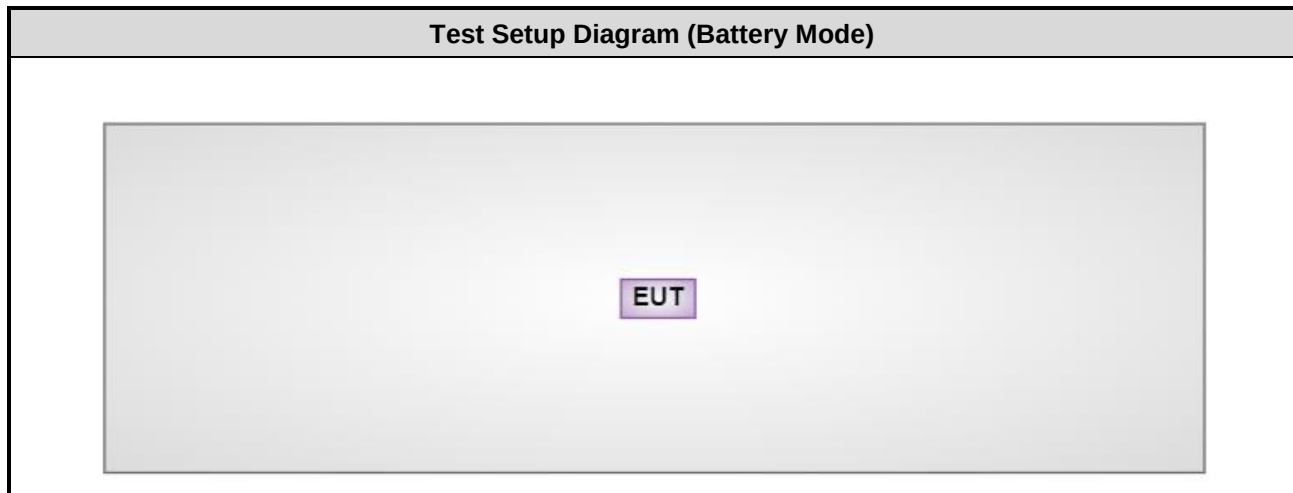
### 1.1.5 Test Tool and Power Index

|             |                                  |
|-------------|----------------------------------|
| Test Tool   | Garmin USB Monitor, Version: 3.0 |
| Power Index | Default                          |

## 1.2 Local Support Equipment List

| Support Equipment List |           |         |            |        |         |
|------------------------|-----------|---------|------------|--------|---------|
| No.                    | Equipment | Brand   | Model      | FCC ID | Remarks |
| 1                      | Adapter   | samsung | ETA-U90JWS | ---    | ---     |

## 1.3 Test Setup Chart



## 1.4 The Equipment List

|                                                                     |                               |                  |                   |                         |                          |
|---------------------------------------------------------------------|-------------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Conducted Emission            |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | Conduction room 1 / (CO01-WS) |                  |                   |                         |                          |
| <b>Tested Date</b>                                                  | May 09, 2022                  |                  |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Brand</b>                  | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Receiver                                                            | R&S                           | ESR3             | 101658            | Feb. 16, 2022           | Feb. 15, 2023            |
| LISN                                                                | R&S                           | ENV216           | 101579            | Apr. 21, 2022           | Apr. 20, 2023            |
| LISN (Support Unit)                                                 | SCHWARZBECK                   | Schwarzbeck 8127 | 8127667           | Jan .07, 2022           | Jan .06, 2023            |
| RF Cable-CON                                                        | Woken                         | CFD200-NL        | CFD200-NL-001     | Oct. 19, 2021           | Oct. 18, 2022            |
| 50 ohm terminal (Support Unit)                                      | NA                            | 50               | 04                | May 25, 2021            | May 24, 2022             |
| Measurement Software                                                | AUDIX                         | e3               | 6.120210k         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                               |                  |                   |                         |                          |

|                                                                     |                            |                        |                   |                         |                          |
|---------------------------------------------------------------------|----------------------------|------------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Radiated Emission          |                        |                   |                         |                          |
| <b>Test Site</b>                                                    | 966 chamber1 / (03CH01-WS) |                        |                   |                         |                          |
| <b>Tested Date</b>                                                  | Apr. 23 ~ May 10, 2022     |                        |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Brand</b>               | <b>Model No.</b>       | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Receiver                                                            | R&S                        | ESR3                   | 101657            | Mar. 15, 2022           | Mar. 14, 2023            |
| Loop Antenna                                                        | R&S                        | HFH2-Z2                | 100330            | Nov. 08, 2021           | Nov. 07, 2022            |
| Bilog Antenna                                                       | SCHWARZBECK                | VULB9168               | VULB9168-522      | Jun. 30, 2021           | Jun. 29, 2022            |
| Preamplifier                                                        | EMC                        | EMC02325               | 980225            | Jun. 29, 2021           | Jun. 28, 2022            |
| Loop Antenna Cable                                                  | KOAX KABEL                 | 101354-BW              | 101354-BW         | Oct. 05, 2021           | Oct. 04, 2022            |
| LF cable 3M                                                         | Woken                      | CFD400NL-LW            | CFD400NL-001      | Oct. 05, 2021           | Oct. 04, 2022            |
| LF cable 11M                                                        | EMC                        | EMCCFD400-NW-N W-11000 | 200801            | Oct. 05, 2021           | Oct. 04, 2022            |
| LF cable 1M                                                         | EMC                        | EMCCFD400-NM-N M-1000  | 160502            | Oct. 05, 2021           | Oct. 04, 2022            |
| Measurement Software                                                | AUDIX                      | e3                     | 6.120210g         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                            |                        |                   |                         |                          |

|                                                                     |               |                  |                   |                         |                          |
|---------------------------------------------------------------------|---------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | RF Conducted  |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | (TH01-WS)     |                  |                   |                         |                          |
| <b>Tested Date</b>                                                  | Apr. 23, 2022 |                  |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Brand</b>  | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer                                                   | R&S           | FSV40            | 101910            | Apr. 18, 2022           | Apr. 17, 2023            |
| Power Meter                                                         | Anritsu       | ML2495A          | 1241002           | Nov. 07, 2021           | Nov. 06, 2022            |
| Power Sensor                                                        | Anritsu       | MA2411B          | 1207366           | Nov. 07, 2021           | Nov. 06, 2022            |
| DC POWER SOURCE                                                     | GW INSTEK     | GPC-6030D        | GES855395         | Nov. 08, 2021           | Nov. 07, 2022            |
| TEMP&HUMIDITY CHAMBER                                               | GIANT FORCE   | GCT-225-40-SP-SD | MAF1212-002       | May 25, 2021            | May 24, 2022             |
| Note: Calibration Interval of instruments listed above is one year. |               |                  |                   |                         |                          |

## 1.5 Test Standards

47 CFR FCC Part 15.225  
ANSI C63.10-2013

## 1.6 Deviation from Test Standard and Measurement Procedure

None

## 1.7 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ( $k=2$ )).

| Measurement Uncertainty         |                 |
|---------------------------------|-----------------|
| Parameters                      | Uncertainty     |
| Bandwidth                       | $\pm 34.130$ Hz |
| Radiated emission $\leq 30$ MHz | $\pm 2.3$ dB    |
| Radiated emission $\leq 1$ GHz  | $\pm 3.41$ dB   |
| Temperature                     | $\pm 0.4$ °C    |
| AC conducted emission           | $\pm 2.92$ dB   |

## 2 Test Configuration

### 2.1 Testing Facility

|                             |                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------|
| <b>Test Laboratory</b>      | International Certification Corporation                                                |
| <b>Test Site</b>            | CO01-WS, 03CH01-WS, TH01-WS                                                            |
| <b>Address of Test Site</b> | No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.) |

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807C
- CAB identifier: TW2732

### 2.2 The Worst Test Modes and Channel Details

| Test item                                                                                                                                                                                                                                                                                                                                                                   | Mode     | Test Frequency (MHz) | Test Configuration |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------|--------------------|
| AC Power Line Conducted Emissions                                                                                                                                                                                                                                                                                                                                           | NFC      | 13.56                | 2                  |
| Field strength of fundamental emissions                                                                                                                                                                                                                                                                                                                                     | NFC      | 13.56                | 2                  |
| Unwanted Emissions into Restricted Frequency Bands < 30MHz                                                                                                                                                                                                                                                                                                                  | NFC      | 13.56                | 2                  |
| Unwanted Emissions into Restricted Frequency Bands > 30MHz                                                                                                                                                                                                                                                                                                                  | NFC      | 13.56                | 2                  |
|                                                                                                                                                                                                                                                                                                                                                                             | Charging | ---                  | 1                  |
| Frequency tolerance                                                                                                                                                                                                                                                                                                                                                         | NFC      | 13.56                | 2                  |
| 20dB bandwidth                                                                                                                                                                                                                                                                                                                                                              | NFC      | 13.56                | 2                  |
| AC Power Line Conducted Emissions                                                                                                                                                                                                                                                                                                                                           | Charging | ---                  | 1                  |
| <b>NOTE:</b><br>1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The <b>Y-plane</b> results were found as the worst case and were shown in this report.<br>2. The EUT had been tested by following test configurations.<br>1) Configuration 1: Charging mode<br>2) Configuration 2: Battery mode |          |                      |                    |

### 3 Transmitter Test Results

#### 3.1 20dB and Occupied Bandwidth

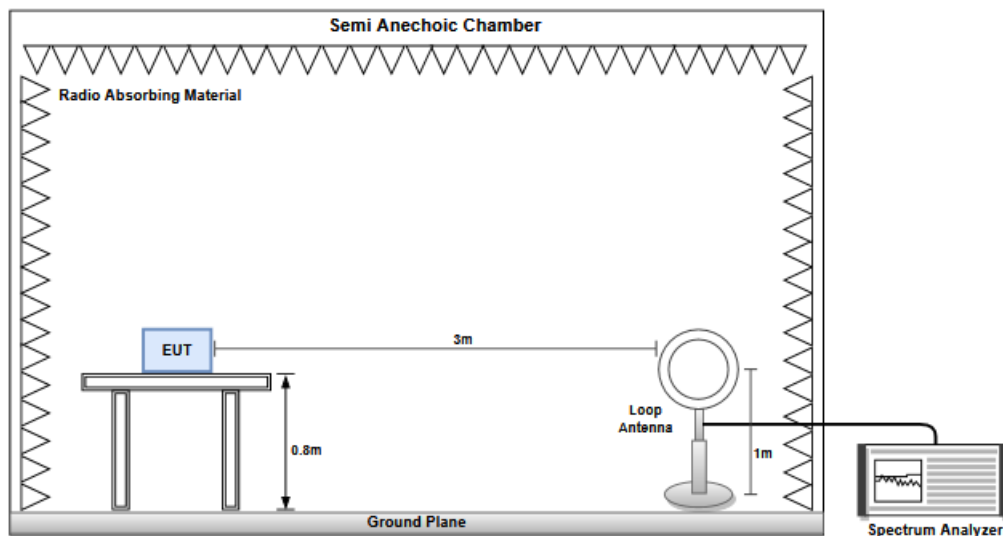
##### 3.1.1 Limit of 20dB Bandwidth

The upper and lower frequency of the 20dB bandwidth shall within 13.553~13.567 MHz

##### 3.1.2 Test Procedures

1. Set resolution bandwidth (RBW) = 1 kHz, Video bandwidth = 3 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20dB relative to the maximum level measured in the fundamental emission.

##### 3.1.3 Test Setup



##### 3.1.4 Test Result

|                   |            |           |            |
|-------------------|------------|-----------|------------|
| Ambient Condition | 22°C / 68% | Tested By | Akun Chung |
|-------------------|------------|-----------|------------|

Refer to Appendix A.

## 3.2 Field Strength of Fundamental Emissions

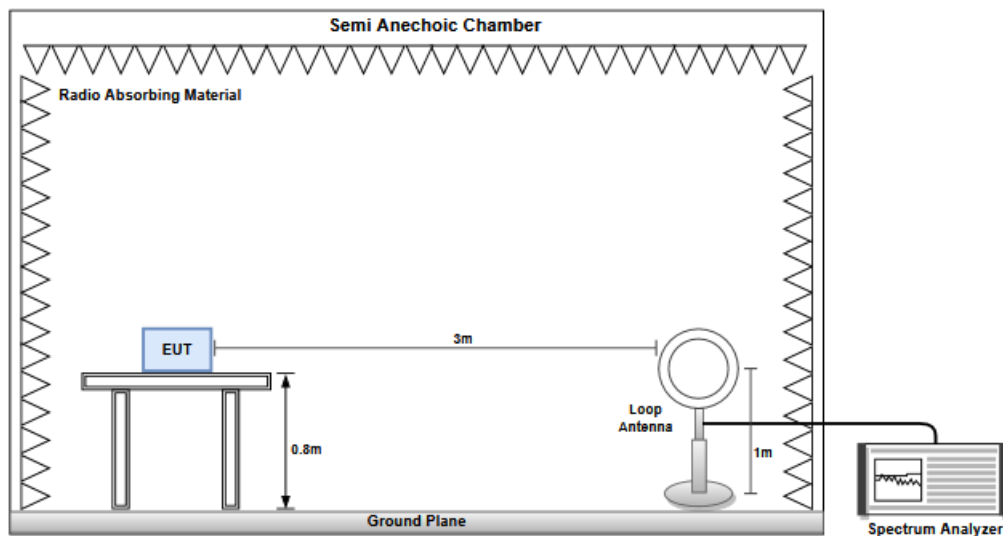
### 3.2.1 Field Strength of Fundamental Emissions

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

### 3.2.2 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the open and close planes of polarization. . Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, and the antenna rotated to repeat the measurements for both the open and close antenna polarizations.

### 3.2.3 Test Setup



### 3.2.4 Test Result

|                          |            |                  |  |          |
|--------------------------|------------|------------------|--|----------|
| <b>Ambient Condition</b> | 24°C / 65% | <b>Tested By</b> |  | Roger Lu |
|--------------------------|------------|------------------|--|----------|

Refer to Appendix B.

### 3.3 Unwanted Emissions into Restricted Frequency Bands

#### 3.3.1 Limit of Unwanted Emissions into Restricted Frequency Bands

- 1) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- 2) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- 3) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in below table

| Restricted Band Emissions Limit |                       |                         |                      |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)           | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                     | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                     | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                      | 30                    | 29                      | 30                   |
| 30~88                           | 100                   | 40                      | 3                    |
| 88~216                          | 150                   | 43.5                    | 3                    |
| 216~960                         | 200                   | 46                      | 3                    |
| Above 960                       | 500                   | 54                      | 3                    |

**Note 1:**  
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**  
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

#### 3.3.2 Test Procedures

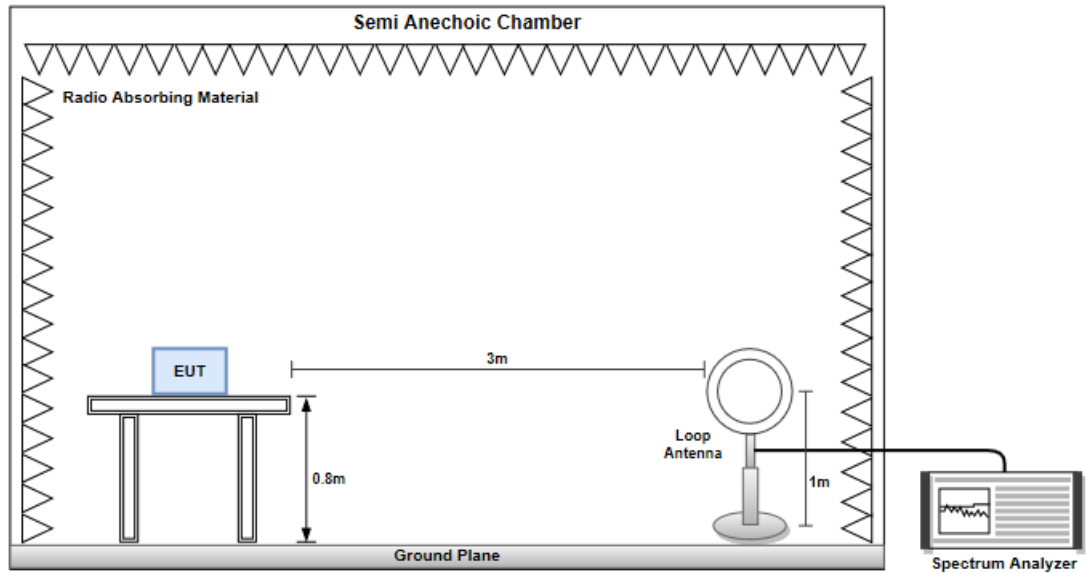
4. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
5. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
6. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

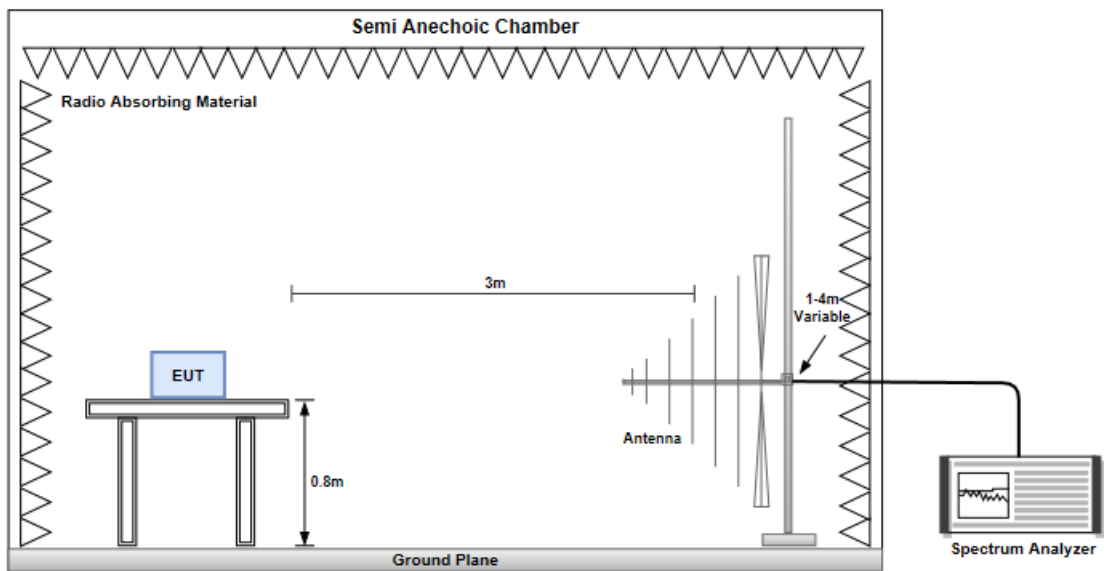
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.

### 3.3.3 Test Setup

#### Radiated Emissions below 30MHz



#### Radiated Emissions below 1 GHz



### 3.3.4 Test Results

Refer to Appendix C.

### 3.4 Frequency Stability

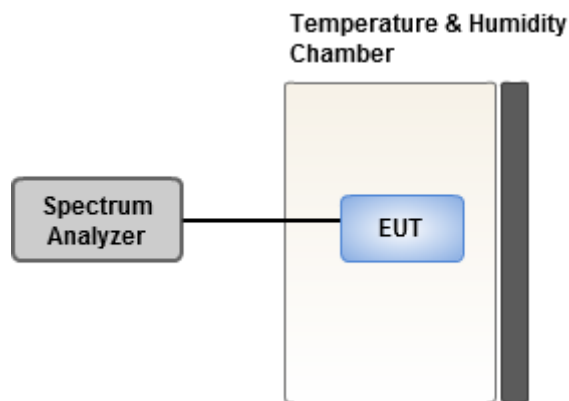
#### 3.4.1 Frequency Stability Limit

Carrier frequency stability shall be maintained to  $\pm 0.01\%$  ( $\pm 100$  ppm).

#### 3.4.2 Test Procedures

| Test Method                         |                                                                                                                                          |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.8 for frequency stability tests                                                                           |
| <input checked="" type="checkbox"/> | Frequency stability with respect to ambient temperature                                                                                  |
| <input checked="" type="checkbox"/> | Frequency stability when varying supply voltage                                                                                          |
| <input type="checkbox"/>            | For conducted measurement.                                                                                                               |
| <input checked="" type="checkbox"/> | For radiated measurement. The equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted power level. |

#### 3.4.3 Test Setup



#### 3.4.4 Test Result

|                   |            |           |            |
|-------------------|------------|-----------|------------|
| Ambient Condition | 22°C / 68% | Tested By | Akun Chung |
|-------------------|------------|-----------|------------|

Refer to Appendix D.

### 3.5 AC Power Line Conducted Emissions

#### 3.5.1 Limit of AC Power Line Conducted Emissions

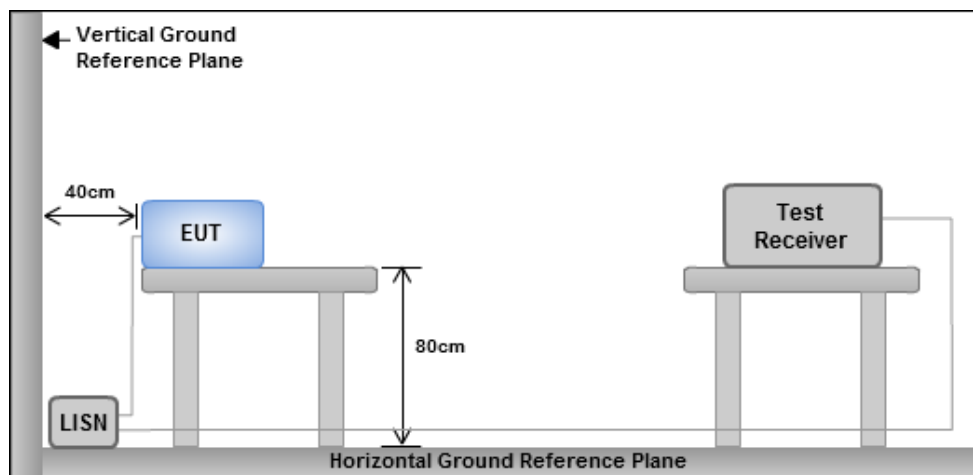
| Conducted Emissions Limit |            |           |
|---------------------------|------------|-----------|
| Frequency Emission (MHz)  | Quasi-Peak | Average   |
| 0.15-0.5                  | 66 - 56 *  | 56 - 46 * |
| 0.5-5                     | 56         | 46        |
| 5-30                   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

Note 1: \* Decreases with the logarithm of the frequency.

#### 3.5.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

#### 3.5.3 Test Setup



- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

#### 3.5.4 Test Result

Refer to Appendix E.

## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou  
District, New Taipei City, Taiwan  
(R.O.C.)

### **Kwei Shan**

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 33381, Taiwan (R.O.C.)  
No.2-1, Lane 6, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 33381, Taiwan (R.O.C.)

### **Kwei Shan Site II**

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 333, Taiwan (R.O.C.)

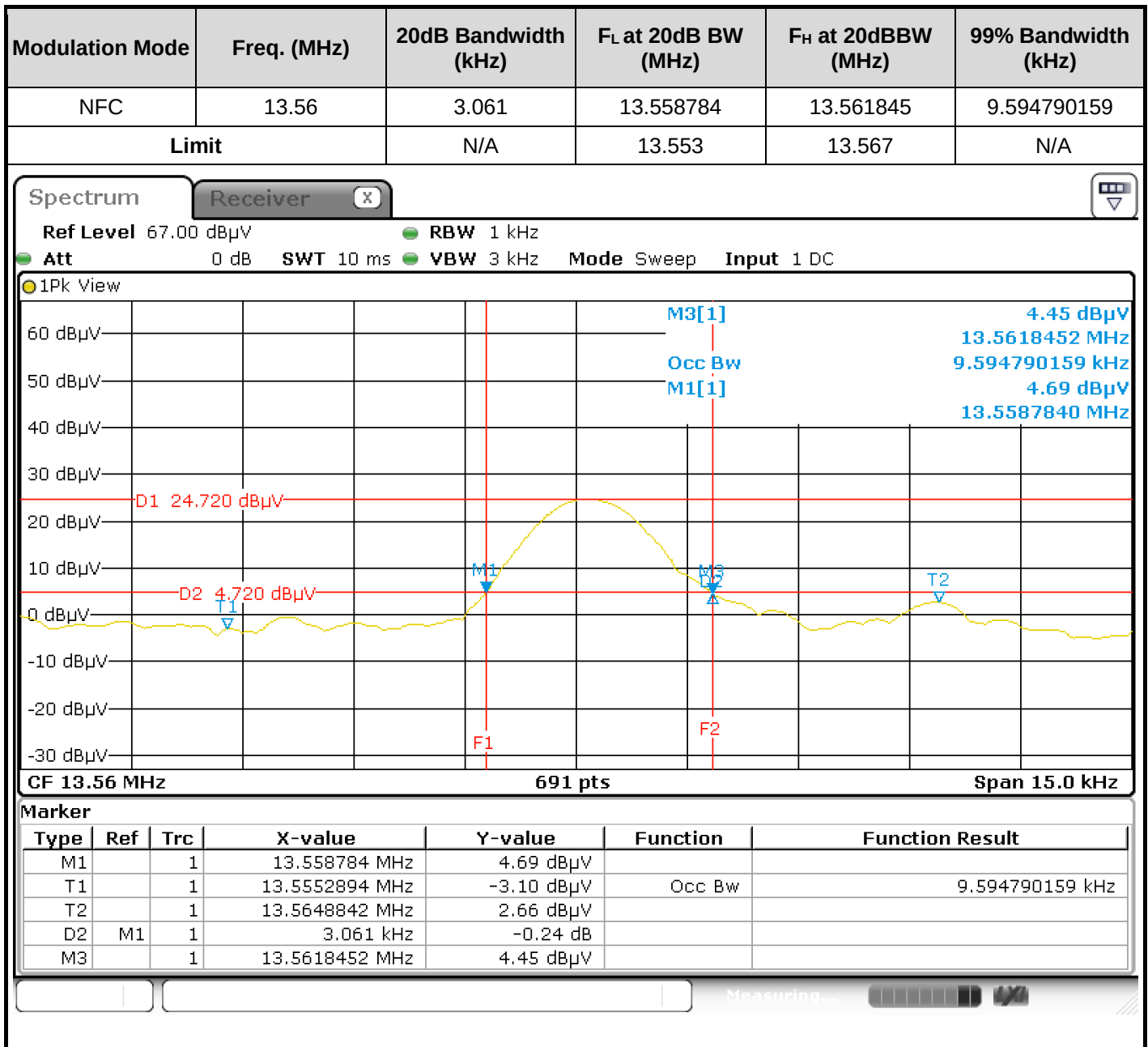
If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC\_Service@icertifi.com.tw

==END==





| Field Strength of Fundamental Emissions Result |                          |                         |                |             |                   |             |        |
|------------------------------------------------|--------------------------|-------------------------|----------------|-------------|-------------------|-------------|--------|
| Polarization                                   | Emission Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | SA Reading (dBuV) | Factor (dB) | Remark |
| Open                                           | 13.56                    | 45.48                   | 105.39         | -59.91      | 21.1              | 24.38       | QP     |

| Field Strength of Fundamental Emissions Result |                          |                         |                |             |                   |             |        |
|------------------------------------------------|--------------------------|-------------------------|----------------|-------------|-------------------|-------------|--------|
| Polarization                                   | Emission Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | SA Reading (dBuV) | Factor (dB) | Remark |
| Close                                          | 13.56                    | 42.08                   | 105.39         | -63.31      | 17.7              | 24.38       | QP     |

Note: Emission level = SA reading + Factor

**Unwanted Emissions (Below 30MHz)**

| Field Strength of Fundamental Emissions Result |                          |                         |                |             |                   |            |        |
|------------------------------------------------|--------------------------|-------------------------|----------------|-------------|-------------------|------------|--------|
| Polarization                                   | Emission Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | SA Reading (dBuV) | Factor(dB) | Remark |
| Open                                           | 13.41                    | 35.12                   | 62             | -26.88      | 10.78             | 24.34      | QP     |
| Open                                           | 13.553                   | 39.78                   | 71.87          | -32.09      | 15.4              | 24.38      | QP     |
| Open                                           | 13.567                   | 41.68                   | 71.86          | -30.18      | 17.3              | 24.38      | QP     |
| Open                                           | 13.71                    | 35.22                   | 61.81          | -26.59      | 10.8              | 24.42      | QP     |
| Open                                           | 27.12                    | 30.5                    | 49.54          | -19.04      | 10.67             | 19.83      | QP     |

| Field Strength of Fundamental Emissions Result |                          |                         |                |             |                   |            |        |
|------------------------------------------------|--------------------------|-------------------------|----------------|-------------|-------------------|------------|--------|
| Polarization                                   | Emission Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | SA Reading (dBuV) | Factor(dB) | Remark |
| Close                                          | 13.41                    | 35                      | 62             | -27         | 10.66             | 24.34      | QP     |
| Close                                          | 13.553                   | 38.04                   | 71.87          | -33.83      | 13.66             | 24.38      | QP     |
| Close                                          | 13.567                   | 39.15                   | 71.86          | -32.71      | 14.77             | 24.38      | QP     |
| Close                                          | 13.71                    | 35.12                   | 61.81          | -26.69      | 10.7              | 24.42      | QP     |
| Close                                          | 27.12                    | 31.14                   | 49.54          | -18.4       | 11.31             | 19.83      | QP     |

Note: Emission level = SA reading + Factor

## Unwanted Emissions (Above 30MHz)

### Configuration 1: Charging mode

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| Test By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| <div><div><div>Level 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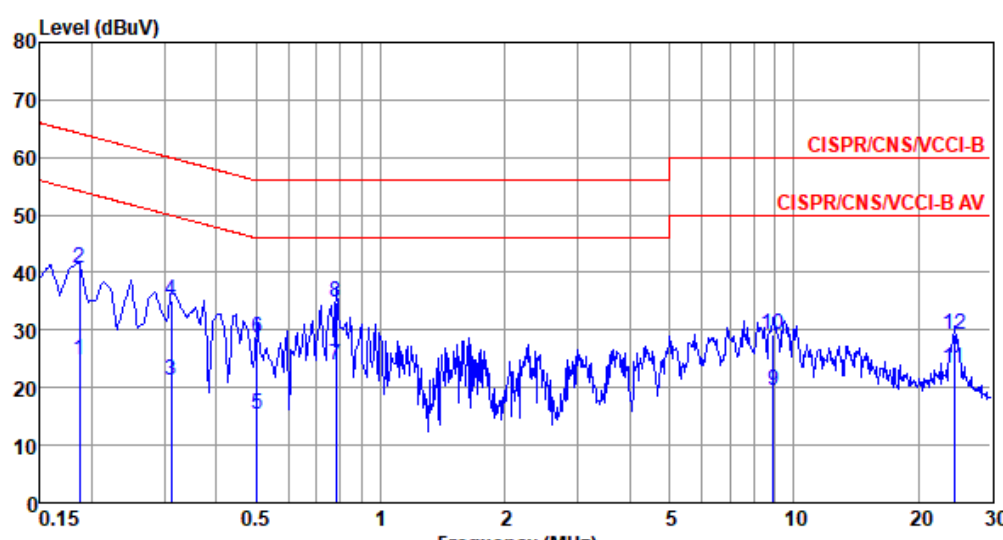


| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Vertical  | Test Freq. (MHz)   | 13.56          |        |         |          |        |        |       |        |        |     |      |  |     |       |        |    |         |      |  |      |       |  |  |  |  |  |      |  |  |    |     |   |       |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|----------------|--------|---------|----------|--------|--------|-------|--------|--------|-----|------|--|-----|-------|--------|----|---------|------|--|------|-------|--|--|--|--|--|------|--|--|----|-----|---|-------|-------|-------|--------|-------|-------|------|-----|-----|---|--------|-------|-------|--------|-------|-------|------|-----|-----|---|--------|-------|-------|--------|-------|-------|------|-----|-----|---|--------|-------|-------|--------|-------|--------|------|-----|-----|---|--------|-------|-------|--------|-------|-------|------|-----|-----|---|--------|-------|-------|--------|-------|-------|------|-----|-----|
| Test By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | :Roger Lu | Temperature(°C):24 | Humidity(%):65 |        |         |          |        |        |       |        |        |     |      |  |     |       |        |    |         |      |  |      |       |  |  |  |  |  |      |  |  |    |     |   |       |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| <div><div><div>Level (dBUV/m)</div><div><div>Frequency (MHz)</div></div><table><thead><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBUV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>35.95</td><td>23.69</td><td>40.00</td><td>-16.31</td><td>33.15</td><td>-9.46</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>136.59</td><td>23.58</td><td>43.50</td><td>-19.92</td><td>33.03</td><td>-9.45</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>161.89</td><td>25.37</td><td>43.50</td><td>-18.13</td><td>34.06</td><td>-8.69</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>189.45</td><td>22.56</td><td>43.50</td><td>-20.94</td><td>33.90</td><td>-11.34</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>361.26</td><td>23.87</td><td>46.00</td><td>-22.13</td><td>30.50</td><td>-6.63</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>425.59</td><td>28.56</td><td>46.00</td><td>-17.44</td><td>33.55</td><td>-4.99</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table></div></div> <div>Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)<br/>*Factor includes antenna factor , cable loss and amplifier gain<br/>Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).</div> |           |                    |                |        | Freq.   | Emission | Limit  | Margin | SA    | Factor | Remark | ANT | Turn |  | MHz | level | dBUV/m | dB | reading | dB/m |  | High | Table |  |  |  |  |  | dBuV |  |  | cm | deg | 1 | 35.95 | 23.69 | 40.00 | -16.31 | 33.15 | -9.46 | Peak | --- | --- | 2 | 136.59 | 23.58 | 43.50 | -19.92 | 33.03 | -9.45 | Peak | --- | --- | 3 | 161.89 | 25.37 | 43.50 | -18.13 | 34.06 | -8.69 | Peak | --- | --- | 4 | 189.45 | 22.56 | 43.50 | -20.94 | 33.90 | -11.34 | Peak | --- | --- | 5 | 361.26 | 23.87 | 46.00 | -22.13 | 30.50 | -6.63 | Peak | --- | --- | 6 | 425.59 | 28.56 | 46.00 | -17.44 | 33.55 | -4.99 | Peak | --- | --- |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Freq.     | Emission           | Limit          | Margin | SA      | Factor   | Remark | ANT    | Turn  |        |        |     |      |  |     |       |        |    |         |      |  |      |       |  |  |  |  |  |      |  |  |    |     |   |       |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MHz       | level              | dBUV/m         | dB     | reading | dB/m     |        | High   | Table |        |        |     |      |  |     |       |        |    |         |      |  |      |       |  |  |  |  |  |      |  |  |    |     |   |       |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                    |                |        | dBuV    |          |        | cm     | deg   |        |        |     |      |  |     |       |        |    |         |      |  |      |       |  |  |  |  |  |      |  |  |    |     |   |       |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35.95     | 23.69              | 40.00          | -16.31 | 33.15   | -9.46    | Peak   | ---    | ---   |        |        |     |      |  |     |       |        |    |         |      |  |      |       |  |  |  |  |  |      |  |  |    |     |   |       |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 136.59    | 23.58              | 43.50          | -19.92 | 33.03   | -9.45    | Peak   | ---    | ---   |        |        |     |      |  |     |       |        |    |         |      |  |      |       |  |  |  |  |  |      |  |  |    |     |   |       |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 161.89    | 25.37              | 43.50          | -18.13 | 34.06   | -8.69    | Peak   | ---    | ---   |        |        |     |      |  |     |       |        |    |         |      |  |      |       |  |  |  |  |  |      |  |  |    |     |   |       |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 189.45    | 22.56              | 43.50          | -20.94 | 33.90   | -11.34   | Peak   | ---    | ---   |        |        |     |      |  |     |       |        |    |         |      |  |      |       |  |  |  |  |  |      |  |  |    |     |   |       |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 361.26    | 23.87              | 46.00          | -22.13 | 30.50   | -6.63    | Peak   | ---    | ---   |        |        |     |      |  |     |       |        |    |         |      |  |      |       |  |  |  |  |  |      |  |  |    |     |   |       |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 425.59    | 28.56              | 46.00          | -17.44 | 33.55   | -4.99    | Peak   | ---    | ---   |        |        |     |      |  |     |       |        |    |         |      |  |      |       |  |  |  |  |  |      |  |  |    |     |   |       |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |



| Frequency:<br>13.56 MHz | Frequency Drift (ppm) |           |           |                |
|-------------------------|-----------------------|-----------|-----------|----------------|
| Temperature (°C)        | 0 minute              | 2 minutes | 5 minutes | 10 minutes     |
| T20°C Vmax              | 14.75                 | 15.49     | 14.75     | 15.49          |
| T20°C Vmin              | 14.01                 | 14.75     | 14.75     | 14.75          |
| T55°C Vnom              | 9.59                  | 11.06     | 10.32     | 11.80          |
| T50°C Vnom              | 11.06                 | 11.06     | 10.32     | 11.80          |
| T40°C Vnom              | 11.06                 | 11.80     | 11.80     | 13.27          |
| T30°C Vnom              | 12.54                 | 11.80     | 13.27     | 14.01          |
| T20°C Vnom              | 14.01                 | 14.75     | 14.75     | 14.75          |
| T10°C Vnom              | 14.75                 | 14.75     | 16.22     | 14.75          |
| T0°C Vnom               | 16.22                 | 15.49     | 17.70     | 15.49          |
| T-10°C Vnom             | 16.96                 | 16.22     | 18.44     | 16.22          |
| T-20°C Vnom             | 16.96                 | 16.22     | 18.44     | 18.44          |
| Vnom [V]: 3.87          | Vmax [V]: 4.50        |           |           | Vmin [V]: 3.60 |
| Tnom [°C]: 20           | Tmax [°C]: 55         |           |           | Tmin [°C]: -20 |



|                                                                                                                                                            |          |       |       |        |       |        |       |      |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|--------|-------|--------|-------|------|---------|
| Modulation                                                                                                                                                 | Charging |       |       |        |       |        |       |      |         |
| Power Phase                                                                                                                                                | Line     |       |       |        |       |        |       |      |         |
| Test by : Joe Liao      Temperature: 22°C      Humidity: 61%                                                                                               |          |       |       |        |       |        |       |      |         |
| <div><div>Level (dBuV)</div><div></div><div>Frequency (MHz)</div></div> |          |       |       |        |       |        |       |      |         |
|                                                                                                                                                            | Freq     | Level | Limit | Over   | Read  | Factor | Cable | Aux  | Remark  |
|                                                                                                                                                            | MHz      | dBuV  | Line  | Limit  | Level | dB     | loss  | dB   |         |
|                                                                                                                                                            |          |       | dBuV  | dB     | dBuV  |        | dB    |      |         |
| 1                                                                                                                                                          | 0.186    | 24.71 | 54.20 | -29.49 | 14.74 | 9.68   | 0.08  | 0.21 | Average |
| 2                                                                                                                                                          | 0.186    | 40.71 | 64.20 | -23.49 | 30.74 | 9.68   | 0.08  | 0.21 | QP      |
| 3                                                                                                                                                          | 0.312    | 21.15 | 49.93 | -28.78 | 11.09 | 9.67   | 0.08  | 0.31 | Average |
| 4                                                                                                                                                          | 0.312    | 35.05 | 59.93 | -24.88 | 24.99 | 9.67   | 0.08  | 0.31 | QP      |
| 5                                                                                                                                                          | 0.502    | 15.34 | 46.00 | -30.66 | 5.21  | 9.67   | 0.10  | 0.36 | Average |
| 6                                                                                                                                                          | 0.502    | 28.61 | 56.00 | -27.39 | 18.48 | 9.67   | 0.10  | 0.36 | QP      |
| 7                                                                                                                                                          | 0.779    | 23.98 | 46.00 | -22.02 | 13.79 | 9.68   | 0.14  | 0.37 | Average |
| 8*                                                                                                                                                         | 0.779    | 34.96 | 56.00 | -21.04 | 24.77 | 9.68   | 0.14  | 0.37 | QP      |
| 9                                                                                                                                                          | 8.916    | 19.60 | 50.00 | -30.40 | 9.01  | 9.73   | 0.42  | 0.44 | Average |
| 10                                                                                                                                                         | 8.916    | 29.30 | 60.00 | -30.70 | 18.71 | 9.73   | 0.42  | 0.44 | QP      |
| 11                                                                                                                                                         | 24.400   | 23.35 | 50.00 | -26.65 | 12.28 | 9.70   | 0.69  | 0.68 | Average |
| 12                                                                                                                                                         | 24.400   | 29.12 | 60.00 | -30.88 | 18.05 | 9.70   | 0.69  | 0.68 | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).  
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

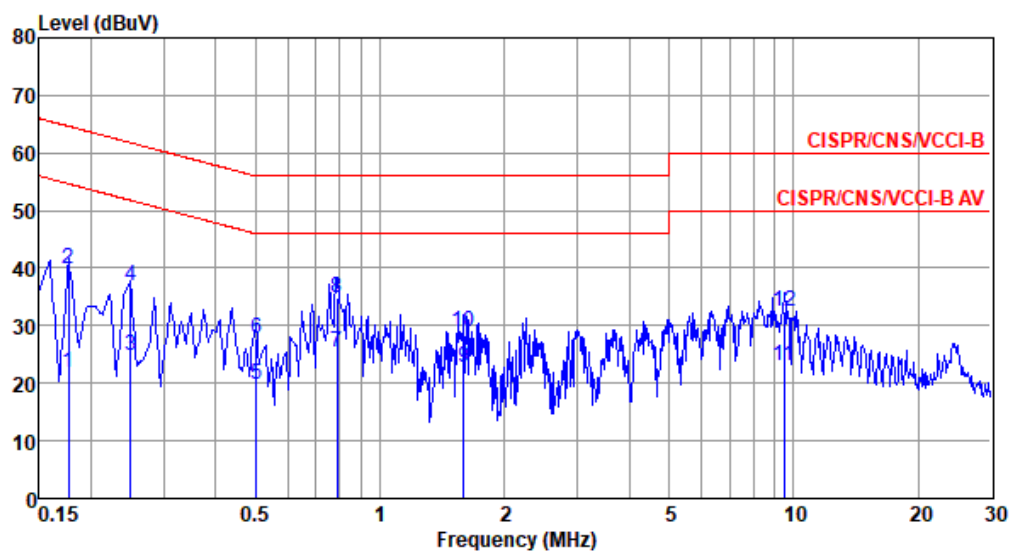


|             |          |
|-------------|----------|
| Modulation  | Charging |
| Power Phase | Neutral  |

Test by : Joe Liao

Temperature: 22°C

Humidity: 61%



|    | Freq<br>MHz | Level<br>dBUV | Limit<br>Line<br>dBUV | Over<br>Limit<br>dB | Read<br>Level<br>dBUV | Factor<br>dB | Cable<br>loss<br>dB | Aux<br>dB | Remark  |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|--------------|---------------------|-----------|---------|
| 1  | 0.177       | 21.73         | 54.64                 | -32.91              | 11.87                 | 9.61         | 0.08                | 0.17      | Average |
| 2  | 0.177       | 39.75         | 64.64                 | -24.89              | 29.89                 | 9.61         | 0.08                | 0.17      | QP      |
| 3  | 0.249       | 24.81         | 51.78                 | -26.97              | 14.94                 | 9.61         | 0.08                | 0.18      | Average |
| 4  | 0.249       | 36.84         | 61.78                 | -24.94              | 26.97                 | 9.61         | 0.08                | 0.18      | QP      |
| 5  | 0.502       | 19.89         | 46.00                 | -26.11              | 9.97                  | 9.61         | 0.10                | 0.21      | Average |
| 6  | 0.502       | 27.88         | 56.00                 | -28.12              | 17.96                 | 9.61         | 0.10                | 0.21      | QP      |
| 7* | 0.788       | 25.45         | 46.00                 | -20.55              | 15.44                 | 9.61         | 0.14                | 0.26      | Average |
| 8  | 0.788       | 34.87         | 56.00                 | -21.13              | 24.86                 | 9.61         | 0.14                | 0.26      | QP      |
| 9  | 1.593       | 22.80         | 46.00                 | -23.20              | 12.70                 | 9.62         | 0.19                | 0.29      | Average |
| 10 | 1.593       | 28.99         | 56.00                 | -27.01              | 18.89                 | 9.62         | 0.19                | 0.29      | QP      |
| 11 | 9.502       | 23.03         | 50.00                 | -26.97              | 12.53                 | 9.69         | 0.44                | 0.37      | Average |
| 12 | 9.502       | 32.41         | 60.00                 | -27.59              | 21.91                 | 9.69         | 0.44                | 0.37      | QP      |

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).