

## Industrial Internet Innovation Center (Shanghai) Co.,Ltd.

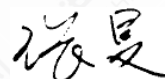
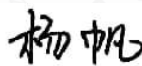
## SRD TEST REPORT

|             |                                    |
|-------------|------------------------------------|
| PRODUCT     | Smart POS System                   |
| BRAND       | SUNMI                              |
| MODEL       | T6831                              |
| APPLICANT   | Shanghai Sunmi Technology Co.,Ltd. |
| FCC ID      | 2AH25T6831                         |
| ISSUE DATE  | September 19, 2024                 |
| STANDARD(S) | FCC Part15C                        |

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Reviewed by: Yang Fan

Approved by: Zhang Min

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## CONTENTS

|                                                              |           |
|--------------------------------------------------------------|-----------|
| <b>1. SUMMARY OF TEST REPORT .....</b>                       | <b>3</b>  |
| 1.1 TEST STANDARD(S) .....                                   | 3         |
| 1.2 REFERENCE DOCUMENT(S) .....                              | 3         |
| 1.3 SUMMARY OF TEST RESULTS .....                            | 3         |
| 1.4 DATA PROVIDED BY APPLICANT .....                         | 4         |
| <b>2. GENERAL INFORMATION OF THE LABORATORY .....</b>        | <b>5</b>  |
| 2.1 TESTING LABORATORY .....                                 | 5         |
| 2.2 LABORATORY ENVIRONMENTAL REQUIREMENTS .....              | 5         |
| 2.3 PROJECT INFORMATION .....                                | 5         |
| <b>3. GENERAL INFORMATION OF THE CUSTOMER .....</b>          | <b>6</b>  |
| 3.1 APPLICANT .....                                          | 6         |
| 3.2 MANUFACTURER .....                                       | 6         |
| <b>4. GENERAL INFORMATION OF THE PRODUCT .....</b>           | <b>7</b>  |
| 4.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) ..... | 7         |
| 4.2 INTERNAL IDENTIFICATION OF AE USED DURING THE TEST ..... | 7         |
| 4.3 ADDITIONAL INFORMATION .....                             | 8         |
| <b>5. TEST CONFIGURATION INFORMATION .....</b>               | <b>9</b>  |
| 5.1 LABORATORY ENVIRONMENTAL CONDITIONS .....                | 9         |
| 5.2 TEST EQUIPMENTS UTILIZED .....                           | 9         |
| 5.3 MEASUREMENT UNCERTAINTY .....                            | 12        |
| <b>6. TEST RESULTS .....</b>                                 | <b>13</b> |
| 6.1 PEAK OUTPUT POWER-CONDUCTED .....                        | 13        |
| 6.2 RADIATED EMISSION .....                                  | 15        |
| 6.3 AC POWERLINE CONDUCTED EMISSION .....                    | 28        |
| <b>ANNEX A: REVISED HISTORY .....</b>                        | <b>31</b> |
| <b>ANNEX B: ACCREDITATION CERTIFICATE .....</b>              | <b>32</b> |



## 1. Summary of Test Report

### 1.1 Test Standard(s)

| No. | Test Standard | Title                                                                                                                                                                                                                    | Version |
|-----|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1   | FCC Part15C   | FCC CFR 47, Part 15, Subpart C:<br>15.205 Restricted bands of operation;<br>15.209 Radiated emission limits, general requirements;<br>15.247 Operation within the bands 902-928MHz,<br>2400-2483.5MHz, and 5725-5850MHz. | --      |

### 1.2 Reference Document(s)

| No. | Test Standard                              | Title                                                                                                                      | Version |
|-----|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------|
| 1   | ANSI C63.10                                | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices                             | 2013    |
| 2   | KDB 558074 D01 15.247 Meas Guidance v05r02 | Guidance for Performing Compliance Measurements on Frequency Hopping Spread Spectrum systems (DSS) Operating Under §15.247 | --      |

Note: The standard of KDB 558074 D01 15.247 Meas Guidance v05r02 has not been accredited by A2LA.

### 1.3 Summary of Test Results

| No. | Measurement Items                      | FCC Rules            | Verdict |
|-----|----------------------------------------|----------------------|---------|
| 1   | Maximum Peak Output Power              | 15.247(b)            | Pass    |
| 2   | Band Edges Compliance                  | 15.247(d)            | Pass    |
| 3   | Transmitter Spurious Emission-Radiated | 15.247/15.205/15.209 | Pass    |
| 4   | AC Powerline Conducted Emission        | 15.207               | Pass    |

#### Note 1:

The T6831 manufactured by Shanghai Sunmi Technology Co.,Ltd. is a variant product for testing. This project is a C2PC project based on the FCC ID: 2AH25T6831. the content of the change is referred to the Product Change Description with below changes:

#### HARDWARE MODIFICATIONS:

Components on PCB changes: Yes

Camera changes: Please refer to the following difference chart

Other changes:

1.Added without front camera and without Pogo Pin configuration.

2.PCBA Change

The CPU chip model is changed from 8766 to 8768, and the two CPU chips are PIN to PIN, and the RF performance will not be affected.

According to the Product Change Description, we verified the worst mode power and retest the Radiated Spurious Emission and AC Powerline Conducted Emission.

There are two configurations Mainly Supply(S04aa) and Secondary Supply(S08aa) in this project. We tested the Mainly Supply(S04aa) and the worst mode of Secondary Supply(S08aa), The description of the differences between Mainly Supply(S04aa) and Secondary Supply(S08aa) are as follows:

| Type of Service | Model Name | Front camera | Pogo Pin | CPU  |
|-----------------|------------|--------------|----------|------|
| Original        | T6831      | YES          | YES      | 8766 |

|                                         |       |     |     |      |
|-----------------------------------------|-------|-----|-----|------|
| Variant1<br>S04aa<br>(Mainly Supply)    | T6831 | YES | YES | 8768 |
| Variant2<br>S08aa<br>(Secondary Supply) | T6831 | NO  | NO  | 8768 |

Industrial Internet Innovation Center (Shanghai) Co., Ltd. only performed test cases which identified with Pass/Fail/Inc result in section 1.3.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. has verified that the compliance of the tested device specified in section 4 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 1 of this test report.

Note:

a. All the test data for each data were verified, but only the worst case was reported.

#### 1.4 Data Provided by Applicant

| No. | Item(s)             | Data     |
|-----|---------------------|----------|
| 1   | Antenna gain of EUT | 2.21 dBi |

Note: The data of antenna gain is provided by the Antenna specification may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.



## 2. General Information of The Laboratory

### 2.1 Testing Laboratory

|                      |                                                            |
|----------------------|------------------------------------------------------------|
| Lab Name             | Industrial Internet Innovation Center (Shanghai) Co.,Ltd.  |
| Address              | Building 4, No. 766, Jingang Road, Pudong, Shanghai, China |
| Telephone            | 021-68866880                                               |
| FCC Registration No. | 708870                                                     |
| FCC Designation No.  | CN1364                                                     |

### 2.2 Laboratory Environmental Requirements

|                      |              |
|----------------------|--------------|
| Temperature          | 15°C~35°C    |
| Relative Humidity    | 25%RH~75%RH  |
| Atmospheric Pressure | 86kPa~106kPa |

### 2.3 Project Information

|                 |                                       |
|-----------------|---------------------------------------|
| Project Manager | Gao Hongning                          |
| Test Date       | August 20, 2024 to September 11, 2024 |

### 3. General Information of The Customer

#### 3.1 Applicant

|           |                                                                  |
|-----------|------------------------------------------------------------------|
| Company   | Shanghai Sunmi Technology Co.,Ltd.                               |
| Address   | Room 505, No.388,Song Hu Road, Yang Pu District, Shanghai, China |
| Telephone | 18826519551                                                      |

#### 3.2 Manufacturer

|           |                                                                  |
|-----------|------------------------------------------------------------------|
| Company   | Shanghai Sunmi Technology Co.,Ltd.                               |
| Address   | Room 505, No.388,Song Hu Road, Yang Pu District, Shanghai, China |
| Telephone | 18826519551                                                      |



## 4. General Information of The Product

### 4.1 Product Description for Equipment under Test (EUT)

|                                                                                                                                                                                                                         |                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                                                                                                                                                                                                            | Smart POS System                                                                                                                                                                                                          |
| Model name                                                                                                                                                                                                              | T6831                                                                                                                                                                                                                     |
| Date of Receipt                                                                                                                                                                                                         | S02aa/S04aa: August 20, 2024<br>S08aa: August 26, 2024                                                                                                                                                                    |
| EUT ID*                                                                                                                                                                                                                 | S02aa/S04aa/S08aa                                                                                                                                                                                                         |
| SN/IMEI                                                                                                                                                                                                                 | S02aa: 863477070000126'863477070003120<br>S04aa: 863477070000159'863477070003153<br>S08aa: 861040700003552'861040700008551                                                                                                |
| Supported Radio Technology and Bands                                                                                                                                                                                    | GSM850/GSM900/DCS1800/PCS1900<br>WCDMA Band I/II/IV/V/VI/VIII/XIX<br>LTE Band 1/2/3/4/5/7/8/18/19/20/26/28/34/38/39/40/41<br>BT 5.0 BR/EDR/BLE<br>WLAN 802.11b,g,n<br>WLAN 802.11a,n,ac<br>GPS/Galileo/GLONASS/BDS<br>NFC |
| Hardware Version                                                                                                                                                                                                        | V1.0                                                                                                                                                                                                                      |
| Software Version                                                                                                                                                                                                        | V3.0.4                                                                                                                                                                                                                    |
| FCC ID                                                                                                                                                                                                                  | 2AH25T6831                                                                                                                                                                                                                |
| NOTE1: EUT ID is the internal identification code of the laboratory.<br>NOTE2: Samples in the test report are provided by the customer. The test results are only applicable to the samples received by the laboratory. |                                                                                                                                                                                                                           |

### 4.2 Internal Identification of AE used during the test

| AE ID*                                                                                                                                                                                             | Description | Model              | SN/Remark                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|----------------------------------------------------|
| CA04                                                                                                                                                                                               | Adapter     | TPA-141A050200UU01 | N/A                                                |
| CB02                                                                                                                                                                                               | Adapter     | UC13US             | N/A                                                |
| UA04                                                                                                                                                                                               | AC Cable    | N/A                | N/A                                                |
| BA04                                                                                                                                                                                               | Battery     | HPPA               | Guangdong Highpower NewEnergy Technology Co., Ltd. |
| NOTE1: AE ID is the internal identification code of the laboratory.<br>NOTE2: By verifying that BA04 is the worst battery and adapter combination, this battery and adapter are used in all tests. |             |                    |                                                    |

### 4.3 Additional Information

|                |                 |
|----------------|-----------------|
| BLE Frequency  | 2402MHz-2480MHz |
| BLE Channel    | Ch0-39          |
| BLE Modulation | GFSK            |

Test frequency list:

|        |             |      |      |      |
|--------|-------------|------|------|------|
| BLE_1M | Channel     | 0    | 19   | 39   |
|        | Freq. (MHz) | 2402 | 2440 | 2480 |

Note: This report is for BLE only.



## 5. Test Configuration Information

### 5.1 Laboratory Environmental Conditions

#### 5.1.1 Permanent Facilities

|                        |                          |         |         |
|------------------------|--------------------------|---------|---------|
| Relative Humidity      | Min. = 45 %, Max. = 55 % |         |         |
| Atmospheric Pressure   | 101kPa                   |         |         |
| Temperature            | Normal                   | Minimum | Maximum |
|                        | 25°C                     | -10°C   | 50°C    |
| Working Voltage of EUT | Normal                   | Minimum | Maximum |
|                        | 7.7V                     | 6.0V    | 8.8V    |

### 5.2 Test Equipments Utilized

#### 5.2.1 Conducted Test System

| No. | Name                                        | Model         | S/N               | SW Version              | HW Version | Manufacturer | Cal. Date  | Cal. Interval |
|-----|---------------------------------------------|---------------|-------------------|-------------------------|------------|--------------|------------|---------------|
| 1   | Test Software                               | TS1120        | 10727             | V3.2.22                 | N/A        | Tonsce nd    | N/A        | N/A           |
| 2   | Automatic control unit                      | JS0806-2      | 2218060623        | N/A                     | N/A        | Tonsce nd    | 2024-03-25 | 1 Year        |
| 3   | Wireless communication comprehensive tester | CMW500        | 164865            | V3.8.12                 | N/A        | R&S          | 2024-07-25 | 1 Year        |
| 4   | Spectrum Analyzer                           | FSQ40         | 200063            | V4.75                   | N/A        | R&S          | 2023-10-16 | 1 Year        |
| 5   | Analog Signal Generator                     | SMF           | 104770            | V3.0.13.0-2.20.530.15.4 | N/A        | R&S          | 2023-10-16 | 1 year        |
| 6   | Vector Signal Generator                     | SMCV100B      | 103691            | V5.00.122.24            | N/A        | R&S          | 2024-07-25 | 1 Year        |
| 7   | Programmable Power Supply                   | Keithley 2303 | 4039070           | N/A                     | N/A        | Keithley     | 2024-06-07 | 1 Year        |
| 8   | Temperature box                             | B-TF-107C     | BTF107C-201804107 | N/A                     | N/A        | Boyi         | 2024-06-07 | 1 Year        |
| 9   | Network test unit AP                        | GT-AXE11000   | N2IG0X401637KWF   | V3.0.0.4.386_45940      | N/A        | ASUS         | N/A        | N/A           |
| 10  | Vector Signal Generator                     | SMBV100A      | 257904            | V4.15.125.49            | N/A        | R&S          | 2023-10-16 | 1 Year        |

### 5.2.2 Radiated Emission Test System

| No | Name                                 | Model           | S/N      | SW Version | HW Version    | Manufacturer  | Cal. Date  | Cal. Interval |
|----|--------------------------------------|-----------------|----------|------------|---------------|---------------|------------|---------------|
| 1  | Universal Radio Communication Tester | CMU200          | 123126   | V5.2.1     | B12           | R&S           | 2023-10-16 | 1 Year        |
| 2  | Universal Radio Communication Tester | CMW500          | 104178   | V3.7.20    | 1206.06 00.00 | R&S           | 2023-10-16 | 1 Year        |
| 3  | EMI Test Receiver                    | ESU40           | 100307   | V5.1-24-3  | 01            | R&S           | 2023-12-19 | 1 Year        |
| 4  | Trilog Antenna                       | VULB9162        | 00426    | N/A        | N/A           | Schwarzbeck   | 2024-08-02 | 1 year        |
| 5  | Double Ridged Guide Antenna          | ETS-3117        | 00135885 | N/A        | N/A           | ETS           | 2023-03-23 | 2 years       |
| 6  | EMI Test Software                    | EMC32 V10.35.02 | N/A      | N/A        | N/A           | R&S           | N/A        | N/A           |
| 7  | Horn Antenna                         | 3160-09         | LM6321   | N/A        | N/A           | R&S           | 2024-08-03 | 1 Year        |
| 8  | Horn Antenna                         | 3160-10         | LM5942   | N/A        | N/A           | R&S           | 2024-08-03 | 1 Year        |
| 9  | Loop Antenna                         | AL-130R         | 121083   | N/A        | N/A           | COM-POWER     | 2023-9-13  | 1 Year        |
| 10 | Preamplifier                         | SCU08F1         | 8320024  | N/A        | N/A           | R&S           | 2023-10-16 | 1 Year        |
| 11 | Preamplifier                         | SCU18           | 10155    | N/A        | N/A           | R&S           | 2023-10-16 | 1 Year        |
| 12 | Preamplifier                         | SCU26           | 10025    | N/A        | N/A           | R&S           | 2023-10-16 | 1 Year        |
| 13 | Preamplifier                         | SCU40           | 10020    | N/A        | N/A           | R&S           | 2023-10-16 | 1 Year        |
| 14 | 2-Line V-Network                     | ENV216          | 101380   | N/A        | N/A           | R&S           | 2023-12-19 | 1 Year        |
| 15 | EMI Test Software                    | EMC32 V10.35.02 | N/A      | N/A        | N/A           | R&S           | N/A        | N/A           |
| 16 | Test Receiver                        | ESCI            | 101235   | V5.1-24-3  | 0             | R&S           | 2023-12-19 | 1 Year        |
| 17 | Antenna Tower                        | TPMDC-LF        | N/A      | N/A        | N/A           | Top Precision | N/A        | N/A           |
| 18 | Antenna Tower                        | TPMDC-HF        | N/A      | N/A        | N/A           | Top Precision | N/A        | N/A           |



### 5.2.3 Test Environment

**Shielding Room1** (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

|                          |                            |
|--------------------------|----------------------------|
| Temperature              | Min. = 15 °C, Max. = 35 °C |
| Relative humidity        | Min. = 20 %, Max. = 75 %   |
| Shielding effectiveness  | > 100 dB                   |
| Ground system resistance | < 0.5 Ω                    |
| Temperature              | Min. = 15 °C, Max. = 35 °C |

**Control room** did not exceed following limits along the EMC testing:

|                          |                            |
|--------------------------|----------------------------|
| Temperature              | Min. = 15 °C, Max. = 35 °C |
| Relative humidity        | Min. = 30 %, Max. = 60 %   |
| Shielding effectiveness  | > 100 dB                   |
| Electrical insulation    | > 10 kΩ                    |
| Ground system resistance | < 0.5 Ω                    |

**Fully-anechoic chamber1** (9.8 meters×6.7 meters×6.7 meters) did not exceed following limits along the EMC testing:

|                            |                                        |
|----------------------------|----------------------------------------|
| Temperature                | Min. = 15 °C, Max. = 35 °C             |
| Relative humidity          | Min. = 25 %, Max. = 75 %               |
| Shielding effectiveness    | > 100 dB                               |
| Electrical insulation      | > 10 kΩ                                |
| Ground system resistance   | < 0.5 Ω                                |
| VSWR                       | Between 0 and 6 dB, from 1GHz to 18GHz |
| Site Attenuation Deviation | Between -4 and 4 dB, 30MHz to 1GHz     |

### 5.3 Measurement Uncertainty

#### Measurement Uncertainty of Conduction test

| Item(s)                                         | Frequency range | Confidence Level | Uncertainty        |
|-------------------------------------------------|-----------------|------------------|--------------------|
| DTS Bandwidth                                   | 2400–2483.5MHz  | 95%              | ±1.9%              |
| Maximum Conducted Output Power                  | 2400–2483.5MHz  | 95%              | ± 1.18 dB          |
| Maximum Power Spectral Density Level            | 2400–2483.5MHz  | 95%              | ±0.98 dB           |
| Band-edge Compliance                            | 2400–2483.5MHz  | 95%              | ±1.21dB            |
| Unwanted Emissions In Non-restricted Freq Bands | 9kHz-7GHz       | 95%              | 9kHz-7GHz:±1.21dB  |
|                                                 | 7GHz-40GHz      | 95%              | 7GHz-40GHz:±3.31dB |

#### Measurement Uncertainty of Radiation test

| Measurement Items                   | Uncertainty(dB) |
|-------------------------------------|-----------------|
| Radiated Emission 30MHz-1000MHz     | ±5.10           |
| Radiated Emission 1000MHz-18000MHz  | ±5.66           |
| Radiated Emission 18000MHz-40000MHz | ±5.22           |
| AC Powerline Conducted Emission     | ±4.38           |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



## 6. Test Results

### 6.1 Peak Output Power-Conducted

#### 6.1.1 Measurement Limit

| Standard                 | Conducted Limit(dBm) | EIRP Limit(dBm) |
|--------------------------|----------------------|-----------------|
| FCC 47 Part 15.247(b)(3) | <30                  | <36             |

#### 6.1.2 Test Condition

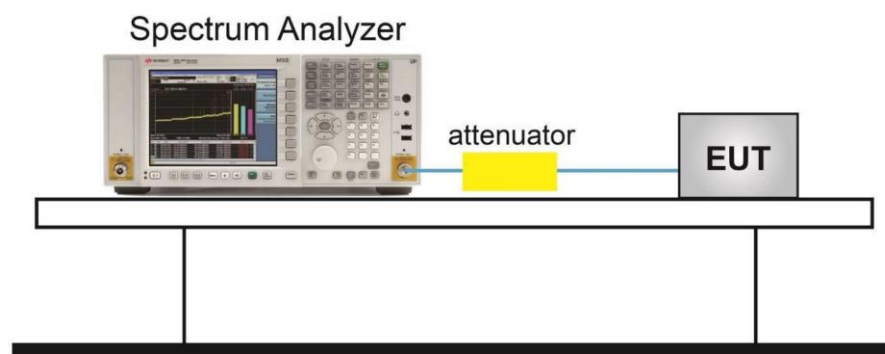
| DTS procedure | RBW  | VBW   | Span | Sweeptime |
|---------------|------|-------|------|-----------|
| BT-LE         | 3MHz | 10MHz | 9MHz | Auto      |

#### 6.1.3 Test Procedure

The measurement is according to ANSI C63.10 clause 11.9.1

- Set the RBW  $\geq$  DTS bandwidth.
- Set VBW  $\geq [3 \times \text{RBW}]$ .
- Set span  $\geq [3 \times \text{RBW}]$ .
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

#### 6.1.4 Test setup

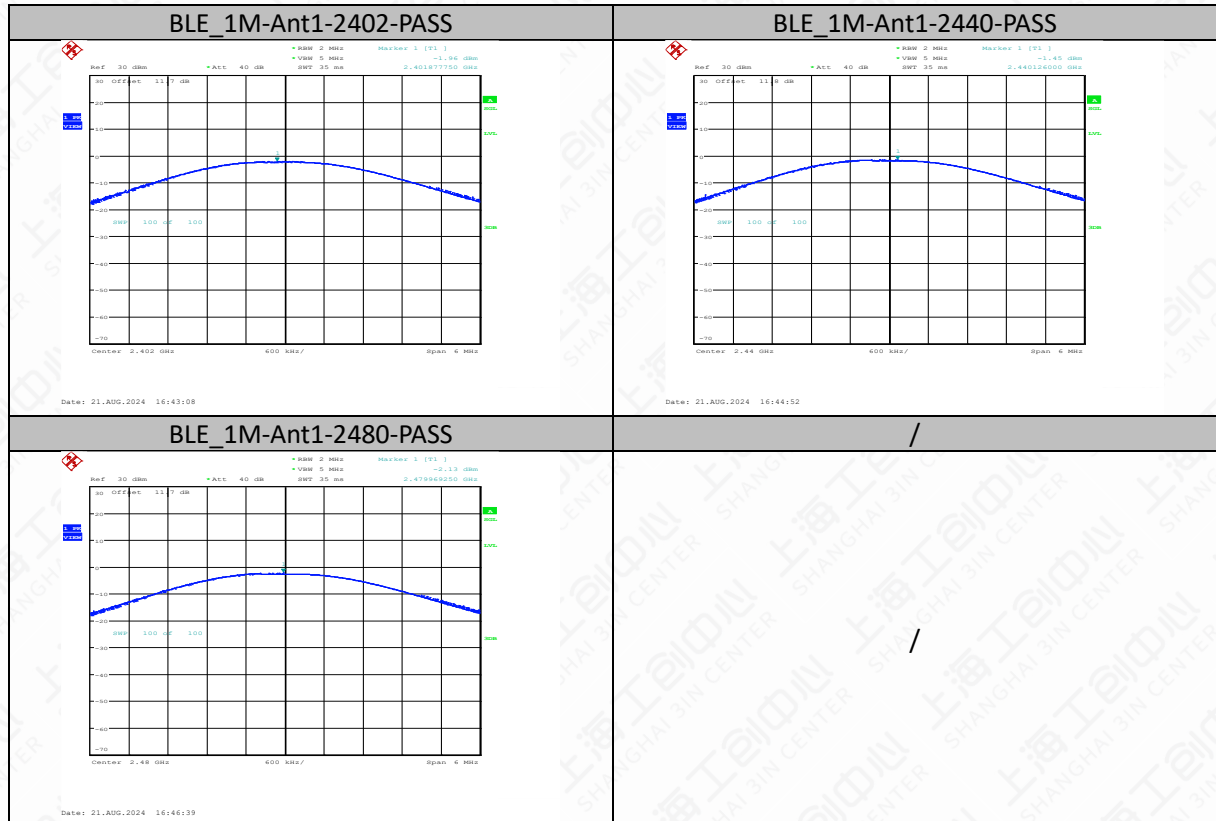


### 6.1.5 Measurement Results

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | EIRP[dBm] | EIRP Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|-----------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -1.96                     | ≤30                  | 0.25      | ≤36             | PASS    |
| BLE_1M   | Ant1    | 2440           | -1.45                     | ≤30                  | 0.76      | ≤36             | PASS    |
| BLE_1M   | Ant1    | 2480           | -2.13                     | ≤30                  | 0.08      | ≤36             | PASS    |

Note1: Only data in worst mode is provided.

#### Test Graphs Peak





## 6.2 Radiated Emission

### 6.2.1 Measurement Limit

| Standard                                  | Limit(dBc)                                       |
|-------------------------------------------|--------------------------------------------------|
| FCC 47 Part 15.247(d),15.205(a),15.209(a) | 20dB below peak output power in 100KHz bandwidth |

In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see 15.205(c)).

Limit in restricted band

| Frequency of emission (MHz) | Field strength (mV/m) | Field strength (dBuV/m) |
|-----------------------------|-----------------------|-------------------------|
| 0.009~0.49                  | 2400/F (kHz)          | 129-94                  |
| 0.49~1.705                  | 24000/F (kHz)         | 74-63                   |
| 1.705~30                    | 30                    | 70                      |
| 30~88                       | 100                   | 40                      |
| 88~216                      | 150                   | 43.5                    |
| 216~960                     | 200                   | 46                      |
| Above 960                   | 500                   | 54                      |

### 6.2.2 Test Method

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

#### Test Settings – Below 1GHz (Quasi-Peak Field Strength Measurements)

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 100 kHz.
3. Set the VBW = 300 kHz.
4. Detector = quasi-peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Trace was allowed to stabilize.

#### Test Settings – Above 1GHz (Peak Field Strength Measurements)

1. Set the center frequency and span to encompass frequency range to be measured.

2. Set the RBW = 1MHz.
3. Set the VBW = 3MHz.
4. Detector = peak
5. Trace mode = max hold
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

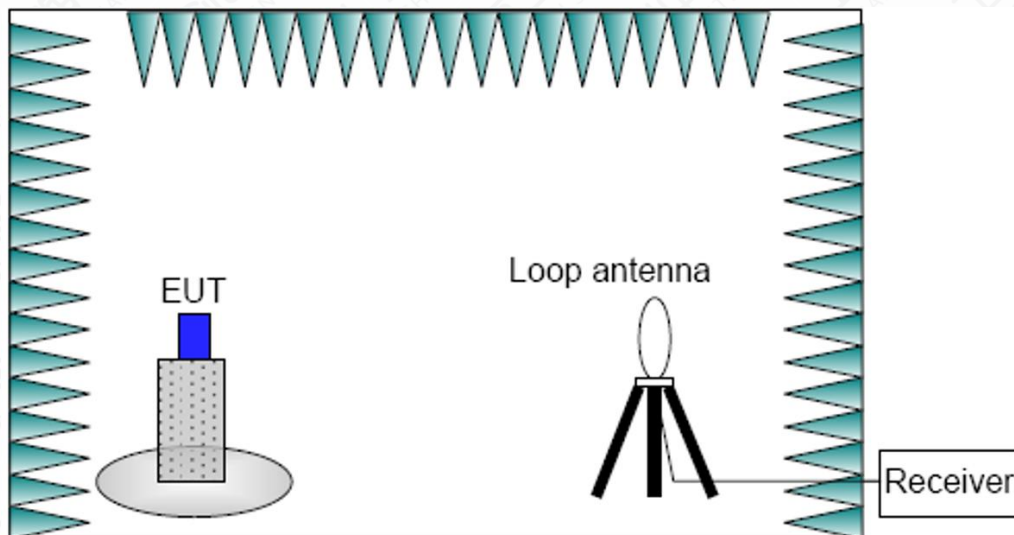
**Test Settings – Above 1GHz (Average Field Strength Measurements)**

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 1MHz.
3. Set the VBW = 3MHz.
4. Detector = power average (RMS).
5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span} \backslash \text{RBW}$ )
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

| Frequency of emission (MHz) | RBW/VBW       | Sweep Time (s) |
|-----------------------------|---------------|----------------|
| 0.009~30                    | 9KHz/30KHz    | Auto           |
| 30~1000                     | 100KHz/300KHz | 5              |
| 1000~4000                   | 1MHz/3MHz     | 15             |
| 4000~18000                  | 1MHz/3MHz     | 40             |
| 18000~26500                 | 1MHz/3MHz     | 20             |

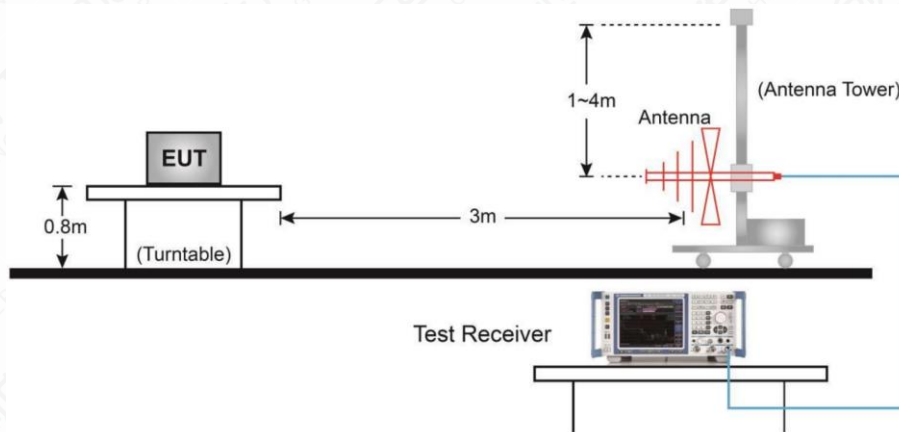
**6.2.3 Test Setup**

**Below 30MHz Test Setup**

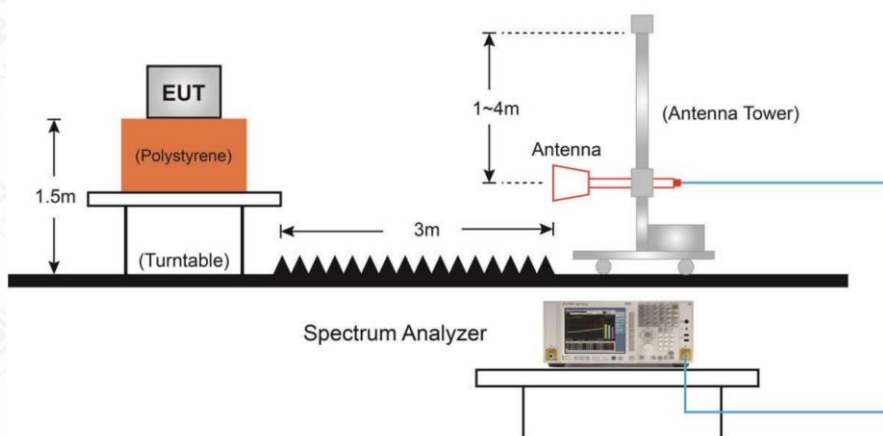




### Below 1GHz Test Setup



### Above 1GHz Test Setup



## 6.2.4 Measurement Results

A “reference path loss” is established and AR<sub>pi</sub> is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

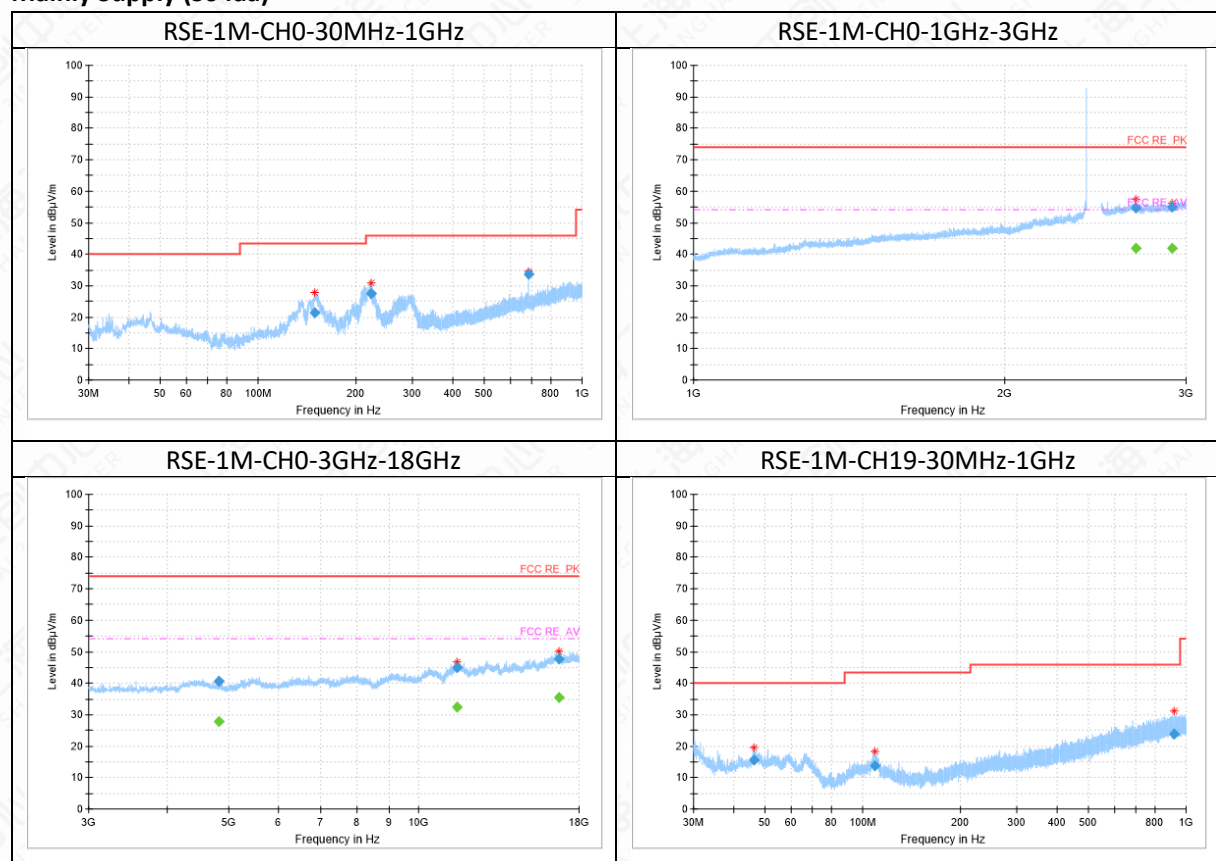
$AR_{pi} = \text{Cable loss} + \text{Antenna Factor} - \text{Preamplifier gain}$

$\text{Result} = P_{\text{Mea}} + AR_{pi}$

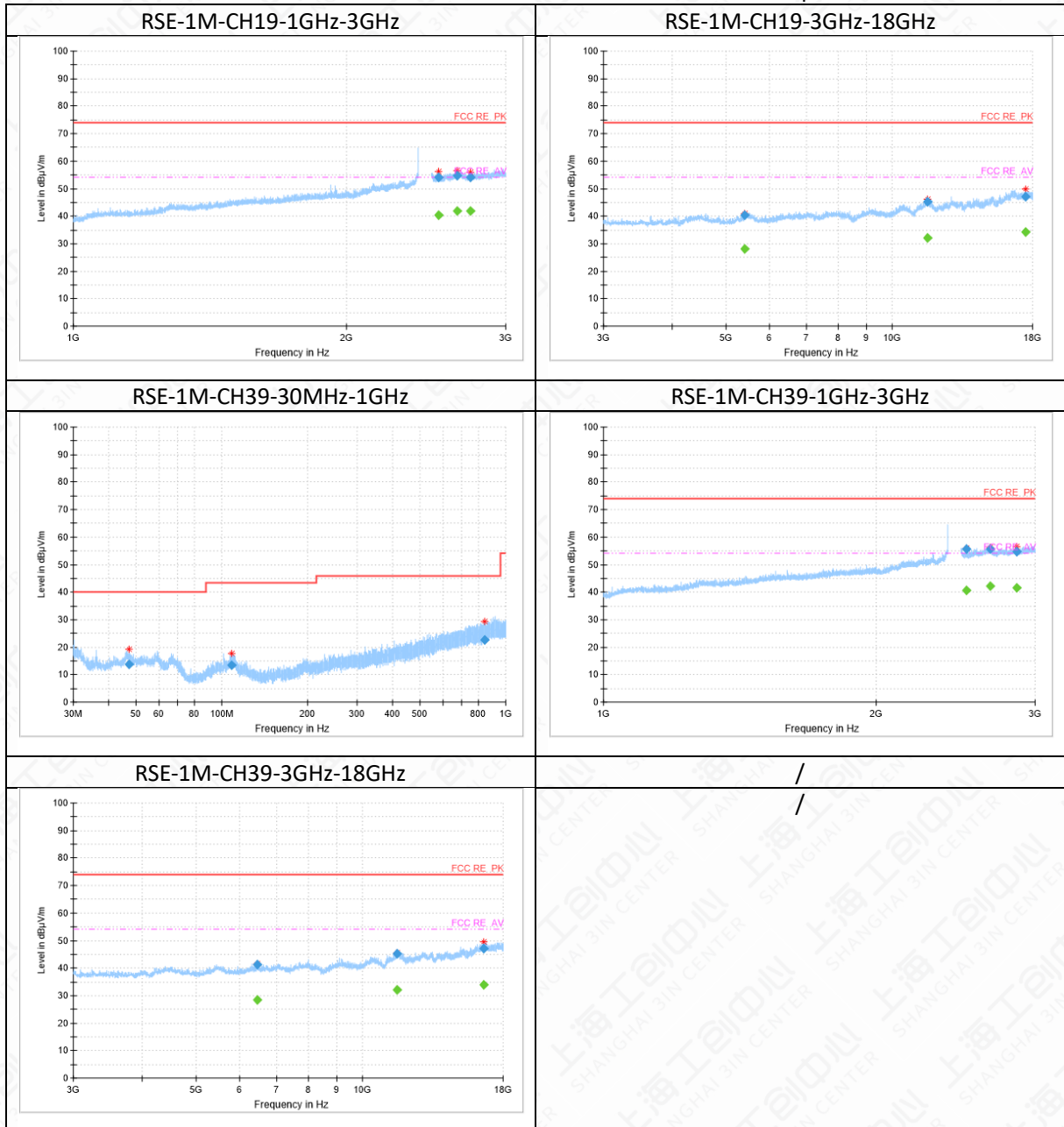
Note:

1. The out-of- limit signal in the picture is the main frequency signal.
2. Only data in worst mode is provided.
3. Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the Emissions in the frequency band 18GHz-26.5GHz is more than 20dB below the limit are not report.
4. The test data below 30MHz is more than 20dB lower than the limit value, so it is not provided in the report.
5. Horizontal and vertical polarity is all have been tested, the result of them is synthesized in the above data diagram.

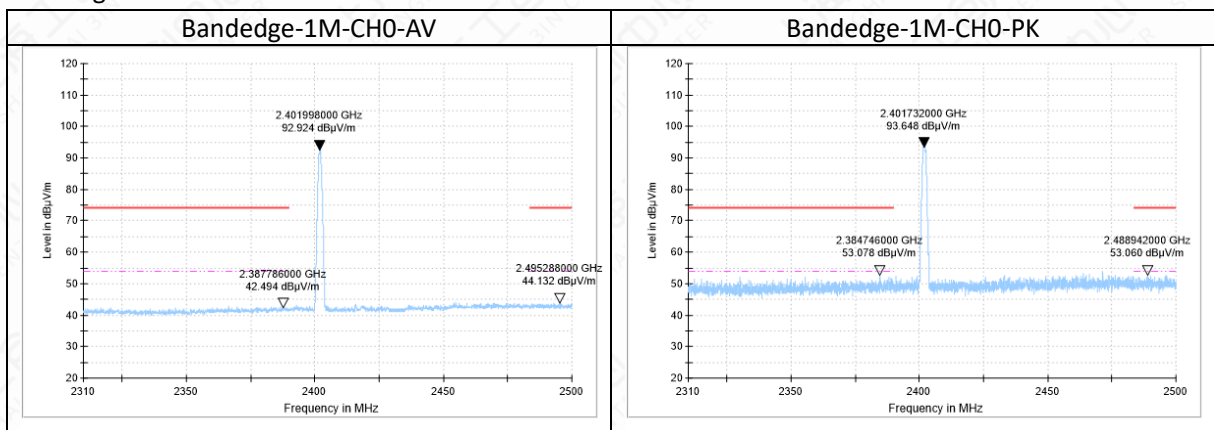
### Mainly Supply (S04aa)

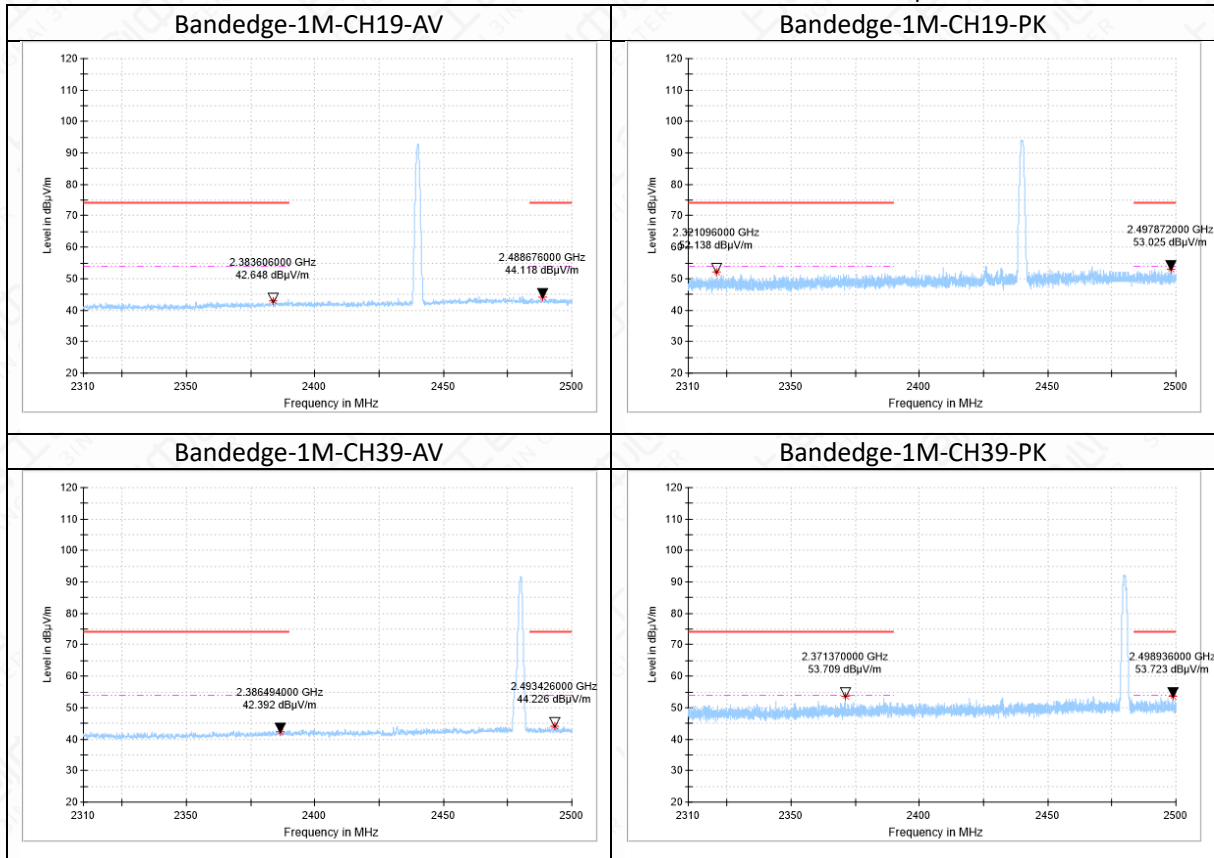




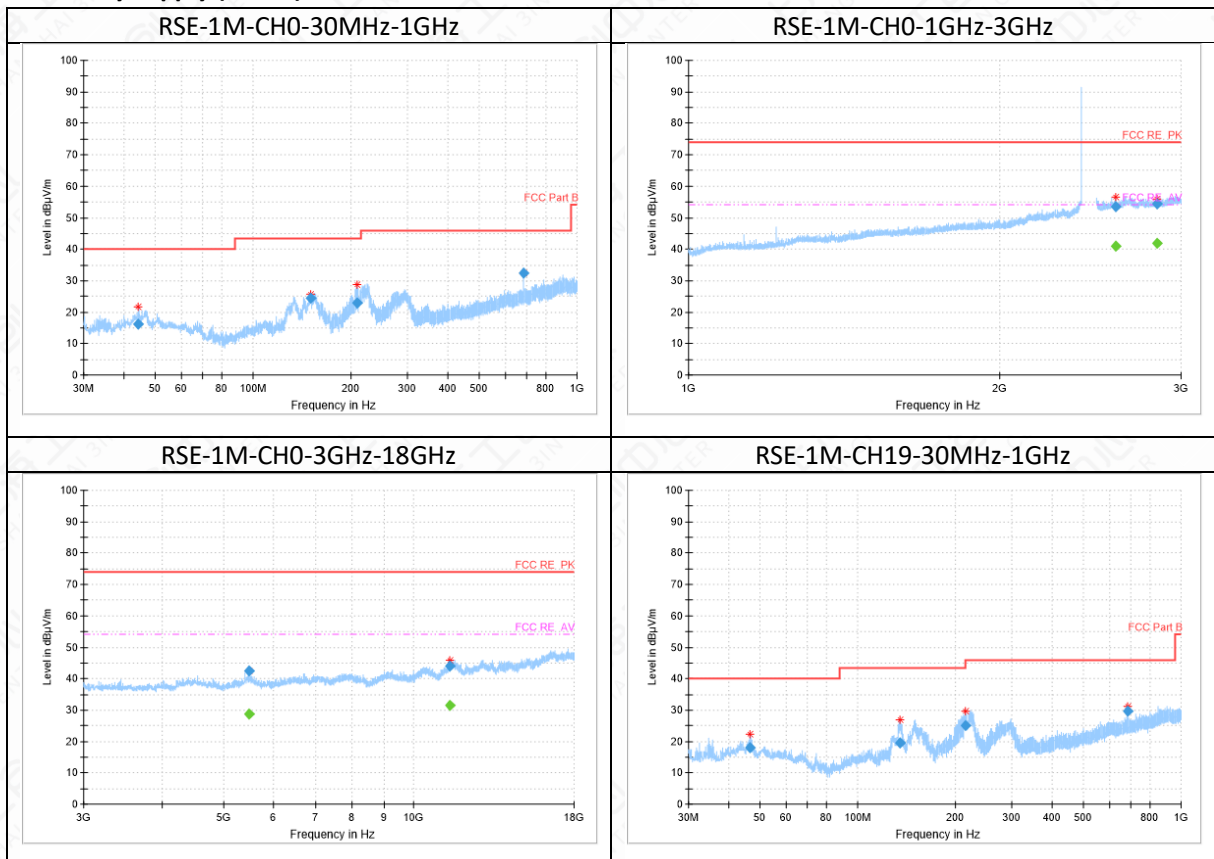


## Bandedge

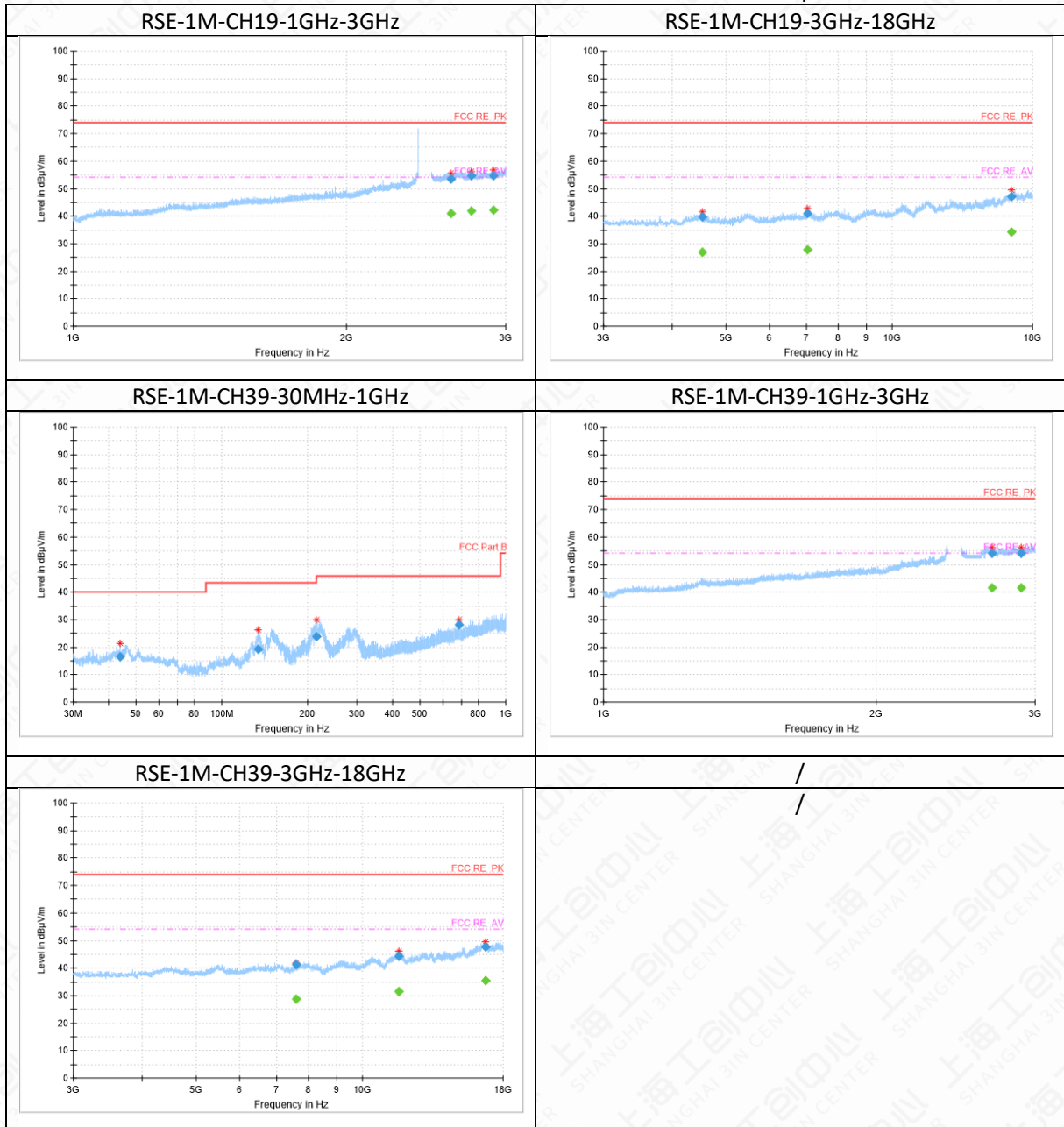




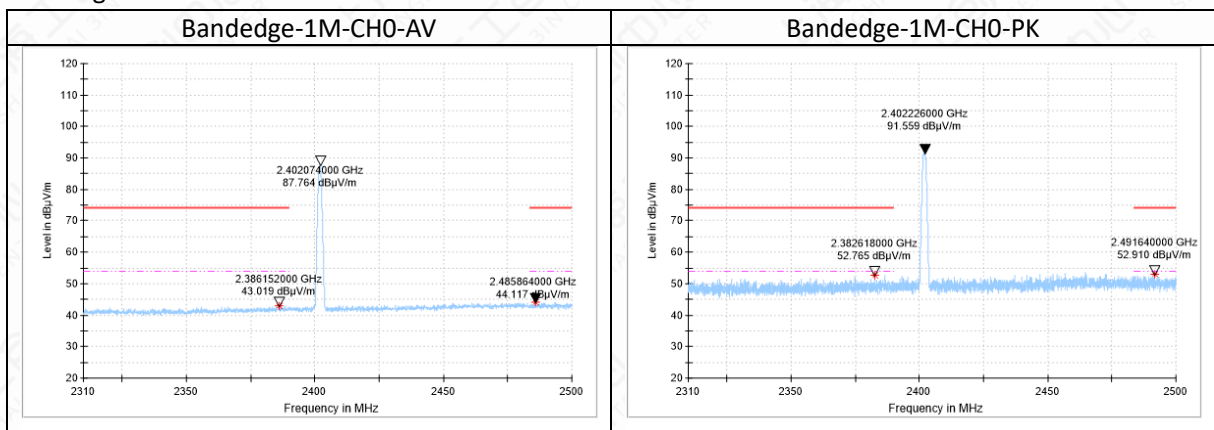
### Secondary supply (S08aa)

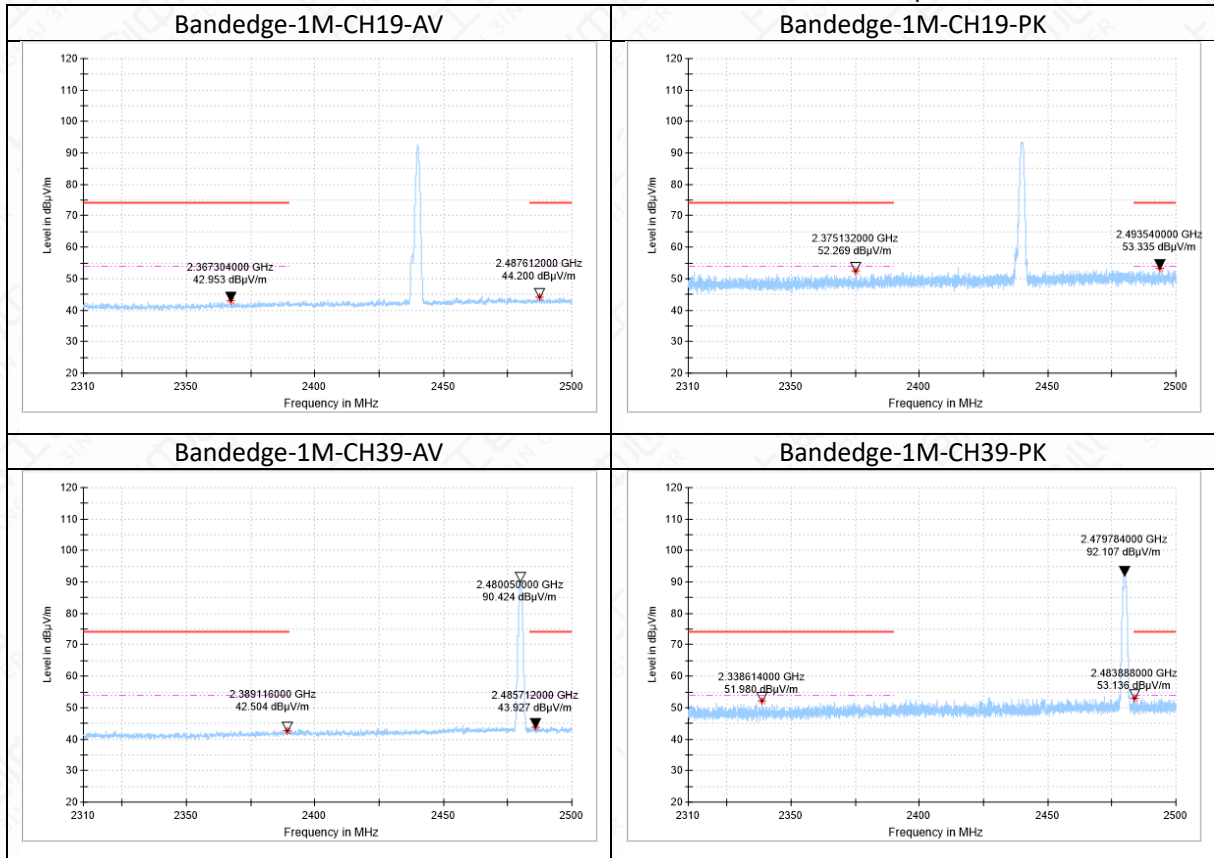






## Bandedge







**Mainly Supply(S04aa)**
**RSE-1M-CH0-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-------------------|-----------|---------------|------------|---------------|----------|
| 149.7           | 21.55             | -16       | 37.55         | 21.95      | 43.50         | H        |
| 223.9           | 27.42             | -12       | 39.42         | 18.58      | 46.00         | H        |
| 684.0           | 33.67             | -1        | 34.67         | 12.33      | 46.00         | H        |

**RSE-1M-CH0-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 2682.4          | 54.85           | 17        | 37.85         | 19.15      | 74.00         | H        |
| 2908.1          | 54.96           | 18        | 36.96         | 19.04      | 74.00         | H        |

**RSE-1M-CH0-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 2682.4          | 41.84           | 17        | 24.84         | 12.16      | 54.00         | H        |
| 2908.1          | 41.99           | 18        | 23.99         | 12.01      | 54.00         | H        |

**RSE-1M-CH0-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 4831.4          | 40.71           | -3        | 43.71         | 33.29      | 74.00         | H        |
| 11543.4         | 44.98           | 3         | 41.98         | 29.02      | 74.00         | V        |
| 16736.2         | 47.86           | 10        | 37.86         | 26.14      | 74.00         | H        |

**RSE-1M-CH0-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 4831.4          | 27.76           | -3        | 30.76         | 26.24      | 54.00         | H        |
| 11543.4         | 32.51           | 3         | 29.51         | 21.49      | 54.00         | V        |
| 16736.2         | 35.54           | 10        | 25.54         | 18.46      | 54.00         | H        |

**RSE-1M-CH19-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-------------------|-----------|---------------|------------|---------------|----------|
| 46.3            | 15.72             | -12       | 27.72         | 24.28      | 40.00         | H        |
| 109.1           | 13.7              | -13       | 26.7          | 29.80      | 43.50         | H        |
| 915.9           | 23.92             | 1         | 22.92         | 22.08      | 46.00         | H        |

**RSE-1M-CH19-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|

|        |       |    |       |       |       |   |
|--------|-------|----|-------|-------|-------|---|
| 2528.7 | 54.08 | 16 | 38.08 | 19.92 | 74.00 | V |
| 2650.7 | 54.76 | 18 | 36.76 | 19.24 | 74.00 | H |
| 2739.8 | 54.27 | 17 | 37.27 | 19.73 | 74.00 | H |

**RSE-1M-CH19-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 2528.7          | 40.47           | 16        | 24.47         | 13.53      | 54.00         | V        |
| 2650.7          | 41.89           | 18        | 23.89         | 12.11      | 54.00         | H        |
| 2739.8          | 41.77           | 17        | 24.77         | 12.23      | 54.00         | H        |

**RSE-1M-CH19-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 5416.4          | 40.47           | -3        | 43.47         | 33.53      | 74.00         | H        |
| 11594.0         | 45.14           | 4         | 41.14         | 28.86      | 74.00         | H        |
| 17485.8         | 47.03           | 10        | 37.03         | 26.97      | 74.00         | H        |

**RSE-1M-CH19-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 5416.4          | 28.19           | -3        | 31.19         | 25.81      | 54.00         | H        |
| 11594.0         | 32.05           | 4         | 28.05         | 21.95      | 54.00         | H        |
| 17485.8         | 34.14           | 10        | 24.14         | 19.86      | 54.00         | H        |

**RSE-1M-CH39-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-------------------|-----------|---------------|------------|---------------|----------|
| 47.2            | 13.89             | -12       | 25.89         | 26.11      | 40.00         | H        |
| 108.5           | 13.35             | -13       | 26.35         | 30.15      | 43.50         | H        |
| 839.9           | 22.65             | 0         | 22.65         | 23.35      | 46.00         | H        |

**RSE-1M-CH39-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 2519.0          | 55.54           | 16        | 39.54         | 18.46      | 74.00         | V        |
| 2678.0          | 55.62           | 17        | 38.62         | 18.38      | 74.00         | V        |
| 2862.3          | 54.75           | 18        | 36.75         | 19.25      | 74.00         | H        |



**RSE-1M-CH39-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 2519.0          | 40.65           | 16        | 24.65         | 13.35      | 54.00         | V        |
| 2678.0          | 42.09           | 17        | 25.09         | 11.91      | 54.00         | V        |
| 2862.3          | 41.67           | 18        | 23.67         | 12.33      | 54.00         | H        |

**RSE-1M-CH39-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 6464.0          | 41.21           | -2        | 43.21         | 32.79      | 74.00         | H        |
| 11577.2         | 45.32           | 4         | 41.32         | 28.68      | 74.00         | V        |
| 16622.4         | 47.03           | 10        | 37.03         | 26.97      | 74.00         | H        |

**RSE-1M-CH39-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 6464.0          | 28.59           | -2        | 30.59         | 25.41      | 54.00         | H        |
| 11577.2         | 32.02           | 4         | 28.02         | 21.98      | 54.00         | V        |
| 16622.4         | 33.96           | 10        | 23.96         | 20.04      | 54.00         | H        |

**Secondary supply (S08aa)**
**RSE-1M-CH0-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-------------------|-----------|---------------|------------|---------------|----------|
| 44.3            | 16.34             | -12       | 28.34         | 23.66      | 40.00         | H        |
| 150.2           | 24.57             | -16       | 40.57         | 18.93      | 43.50         | H        |
| 209.4           | 22.93             | -13       | 35.93         | 20.57      | 43.50         | H        |
| 684.0           | 32.48             | -1        | 33.48         | 13.52      | 46.00         | H        |

**RSE-1M-CH0-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 2593.3          | 53.44           | 17        | 36.44         | 20.56      | 74.00         | H        |
| 2841.7          | 54.44           | 18        | 36.44         | 19.56      | 74.00         | V        |

**RSE-1M-CH0-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 2593.3          | 40.96           | 17        | 23.96         | 13.04      | 54.00         | H        |
| 2841.7          | 41.89           | 18        | 23.89         | 12.11      | 54.00         | V        |

**RSE-1M-CH0-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 5482.0          | 42.45           | -3        | 45.45         | 31.55      | 74.00         | V        |
| 11432.8         | 44.1            | 3         | 41.1          | 29.90      | 74.00         | H        |

**RSE-1M-CH0-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 5482.0          | 28.86           | -3        | 31.86         | 25.14      | 54.00         | V        |
| 11432.8         | 31.41           | 3         | 28.41         | 22.59      | 54.00         | H        |

**RSE-1M-CH19-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-------------------|-----------|---------------|------------|---------------|----------|
| 46.6            | 18.12             | -12       | 30.12         | 21.88      | 40.00         | H        |
| 134.9           | 19.68             | -16       | 35.68         | 23.82      | 43.50         | H        |
| 215.9           | 25.15             | -12       | 37.15         | 18.35      | 43.50         | H        |
| 684.0           | 29.55             | -1        | 30.55         | 16.45      | 46.00         | H        |

**RSE-1M-CH19-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 2608.6          | 53.59           | 17        | 36.59         | 20.42      | 74.00         | V        |
| 2746.9          | 54.61           | 17        | 37.61         | 19.39      | 74.00         | H        |
| 2904.0          | 54.72           | 18        | 36.72         | 19.28      | 74.00         | H        |

**RSE-1M-CH19-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 2608.6          | 40.99           | 17        | 23.99         | 13.01      | 54.00         | V        |
| 2746.9          | 41.84           | 17        | 24.84         | 12.16      | 54.00         | H        |
| 2904.0          | 42.1            | 18        | 24.1          | 11.90      | 54.00         | H        |

**RSE-1M-CH19-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 4534.8          | 39.78           | -5        | 44.78         | 34.22      | 74.00         | V        |
| 7042.5          | 40.83           | -2        | 42.83         | 33.17      | 74.00         | V        |
| 16493.9         | 47.21           | 10        | 37.21         | 26.79      | 74.00         | H        |



**RSE-1M-CH19-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 4534.8          | 27              | -5        | 32            | 27.00      | 54.00         | V        |
| 7042.5          | 27.85           | -2        | 29.85         | 26.15      | 54.00         | V        |
| 16493.9         | 34.31           | 10        | 24.31         | 19.69      | 54.00         | H        |

**RSE-1M-CH39-30MHz-1GHz**

| Frequency (MHz) | QuasiPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-------------------|-----------|---------------|------------|---------------|----------|
| 43.9            | 16.52             | -12       | 28.52         | 23.48      | 40.00         | H        |
| 134.4           | 19.33             | -16       | 35.33         | 24.17      | 43.50         | H        |
| 214.9           | 23.76             | -13       | 36.76         | 19.74      | 43.50         | H        |
| 684.0           | 28.04             | -1        | 29.04         | 17.96      | 46.00         | H        |

**RSE-1M-CH39-1GHz-3GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 2688.5          | 54.19           | 17        | 37.19         | 19.81      | 74.00         | H        |
| 2896.9          | 54.08           | 17        | 37.08         | 19.92      | 74.00         | H        |

**RSE-1M-CH39-1GHz-3GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 2688.5          | 41.66           | 17        | 24.66         | 12.34      | 54.00         | H        |
| 2896.9          | 41.73           | 17        | 24.73         | 12.27      | 54.00         | H        |

**RSE-1M-CH39-3GHz-18GHz**

| Frequency (MHz) | MaxPeak(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 7591.4          | 41.3            | -1        | 42.3          | 32.70      | 74.00         | V        |
| 11642.4         | 44.42           | 3         | 41.42         | 29.58      | 74.00         | H        |
| 16737.1         | 47.62           | 10        | 37.62         | 26.38      | 74.00         | H        |

**RSE-1M-CH39-3GHz-18GHz**

| Frequency (MHz) | Average(dBμV/m) | ARpl (dB) | PMea (dBμV/m) | Margin(dB) | Limit(dBμV/m) | Polarity |
|-----------------|-----------------|-----------|---------------|------------|---------------|----------|
| 7591.4          | 28.82           | -1        | 29.82         | 25.18      | 54.00         | V        |
| 11642.4         | 31.65           | 3         | 28.65         | 22.35      | 54.00         | H        |
| 16737.1         | 35.5            | 10        | 25.5          | 18.50      | 54.00         | H        |

## 6.3 AC Powerline Conducted Emission

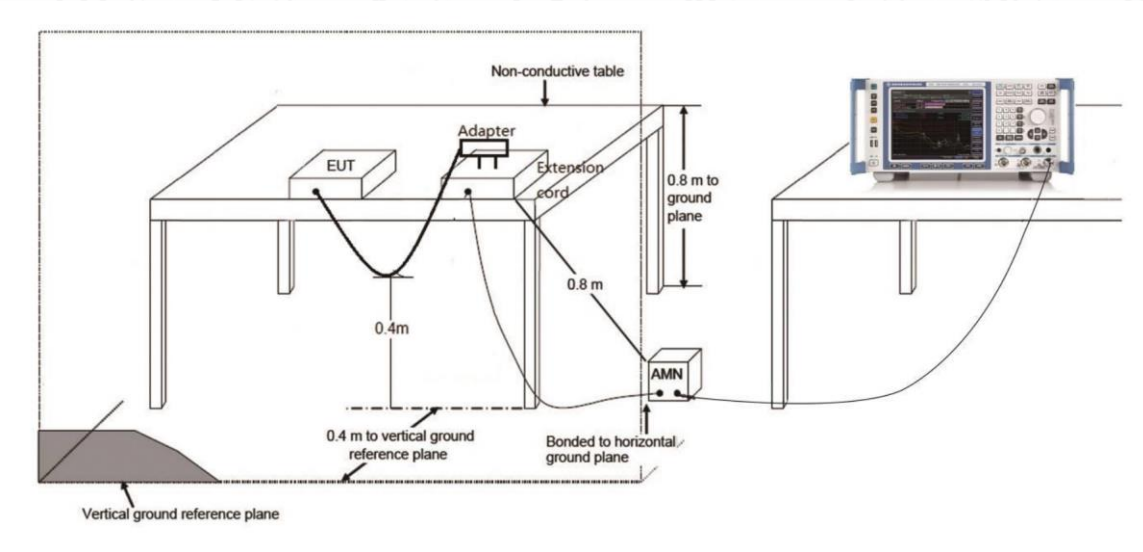
### 6.3.1 Method of Measurement: ANSI C63.10-2013-clause 6.2

1. The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.
2. If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.
3. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.
4. If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.<sup>36</sup> Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.



### 6.3.2 Test Setup



### 6.3.3 Test Condition

| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 120         | 60             |

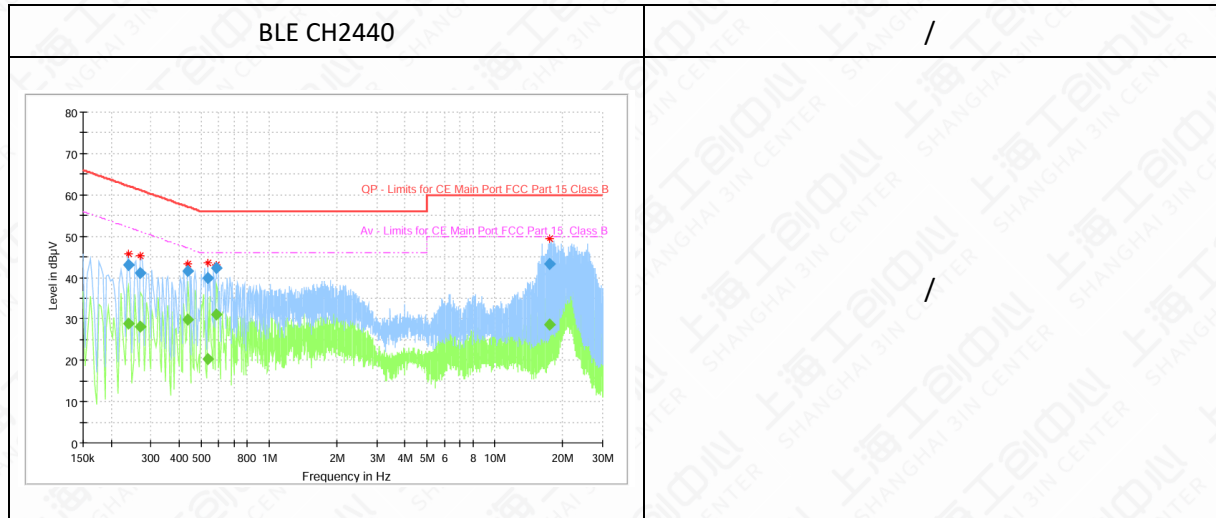
### 6.3.4 Measurement limit

(Quasi-peak-average Limit)

| Frequency range (MHz) | Quasi-peak Limit (dBμV) | Average Limit (dBμV) | Conclusion |
|-----------------------|-------------------------|----------------------|------------|
| 0.15 to 0.5           | 66 to 56                | 56 to 46             | P          |
| 0.5 to 5              | 56                      | 46                   |            |
| 5 to 30               | 60                      | 50                   |            |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

### 6.3.5 Measurement Result



| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Meas.Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|----------------|-----------------|------|--------|------------|
| 0.239550        | ---              | 28.95          | 52.11        | 23.16       | 15000.0        | 9.000           | L1   | ON     | 9.6        |
| 0.239550        | 42.98            | ---            | 62.11        | 19.14       | 15000.0        | 9.000           | L1   | ON     | 9.6        |
| 0.269400        | ---              | 28.18          | 51.14        | 22.96       | 15000.0        | 9.000           | L1   | ON     | 9.6        |
| 0.269400        | 41.13            | ---            | 61.14        | 20.00       | 15000.0        | 9.000           | L1   | ON     | 9.6        |
| 0.437306        | ---              | 29.78          | 47.11        | 17.33       | 15000.0        | 9.000           | L1   | ON     | 9.6        |
| 0.437306        | 41.62            | ---            | 57.11        | 15.50       | 15000.0        | 9.000           | L1   | ON     | 9.6        |
| 0.534319        | ---              | 20.39          | 46.00        | 25.61       | 15000.0        | 9.000           | L1   | ON     | 9.6        |
| 0.534319        | 39.91            | ---            | 56.00        | 16.09       | 15000.0        | 9.000           | L1   | ON     | 9.6        |
| 0.586556        | ---              | 31.00          | 46.00        | 15.00       | 15000.0        | 9.000           | L1   | ON     | 9.6        |
| 0.586556        | 42.43            | ---            | 56.00        | 13.57       | 15000.0        | 9.000           | L1   | ON     | 9.6        |
| 17.537625       | ---              | 28.52          | 50.00        | 21.48       | 15000.0        | 9.000           | L1   | ON     | 10.0       |
| 17.537625       | 43.20            | ---            | 60.00        | 16.80       | 15000.0        | 9.000           | L1   | ON     | 10.0       |

Note: All modes have been tested and only the worst mode is recorded in the report.



## Annex A: Revised History

| Version | Revised Content |
|---------|-----------------|
| V0      | Initial         |

## Annex B: Accreditation Certificate



**END OF REPORT**