

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart C (Section 15.249)  
**Report No.:** RFCYJN-WTW-P26030470-1  
**FCC ID:** 2AAFM-RDA0059  
**Product:** Wireless Headset  
**Brand:** Corsair  
**Model No.:** RDA0059  
**Received Date:** 2026/3/17  
**Test Date:** 2026/3/24 ~ 2026/3/26  
**Issued Date:** 2026/5/8  
**Applicant:** Corsair Memory, Inc.  
**Address:** 115 North McCarthy Blvd, Milpitas, CA 95035, USA  
**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories  
**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan  
**Test Location:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan  
**FCC Registration /** 198487 / TW2021  
**Designation Number:**

Approved by: \_\_\_\_\_

Jeremy Lin

Jeremy Lin / Project Engineer

, Date: \_\_\_\_\_

2026/5/8

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Prepared by : Jessica Cheng / Senior Specialist



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## Release Control Record

| Issue No.              | Description       | Date Issued |
|------------------------|-------------------|-------------|
| RFCYJN-WTW-P26030470-1 | Original release. | 2026/5/8    |

## 1 Certificate

**Product:** Wireless Headset

**Brand:** Corsair

**Test Model:** RDA0059

**Sample Status:** Engineering sample

**Applicant:** Corsair Memory, Inc.

**Test Date:** 2026/3/24 ~ 2026/3/26

**Standard:** 47 CFR FCC Part 15, Subpart C (Section 15.249)

**Measurement  
procedure:** ANSI C63.10-2020

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (Section 15.249) |                                |        |                                                   |
|------------------------------------------------|--------------------------------|--------|---------------------------------------------------|
| Standard / Clause                              | Test Item                      | Result | Remark                                            |
| 15.207                                         | AC Power Conducted Emissions   | Pass   | Minimum passing margin is -5.51 dB at 0.15391 MHz |
| 15.209 / 15.249(d)                             | Radiated Emissions below 1 GHz | Pass   | Minimum passing margin is -10.5 dB at 140.58 MHz  |
| 15.209 / 15.249(a) / 15.249(d) / 15.249(e)     | Radiated Emissions above 1 GHz | Pass   | Minimum passing margin is -4.7 dB at 2400.00 MHz  |
| 15.215 (c)                                     | 20 dB Bandwidth                | Pass   | Meet the requirement of limit.                    |
| 15.203                                         | Antenna Requirement            | Pass   | No antenna connector is used.                     |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                    | Specification   | Expanded Uncertainty<br>(k=2)<br>(±) |
|--------------------------------|-----------------|--------------------------------------|
| AC Power Conducted Emissions   | 9 kHz ~ 30 MHz  | 3.24 dB                              |
| Radiated Emissions below 1 GHz | 9 kHz ~ 30 MHz  | 2.55 dB                              |
|                                | 30 MHz ~ 1 GHz  | 5.77 dB                              |
| Radiated Emissions above 1 GHz | 1 GHz ~ 6 GHz   | 4.71 dB                              |
|                                | 6 GHz ~ 18 GHz  | 5.3 dB                               |
|                                | 18 GHz ~ 40 GHz | 4.98 dB                              |
| 20 dB Bandwidth                | -               | 960 Hz                               |

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

### 2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

### 3 General Information

#### 3.1 General Description

|                               |                                                |
|-------------------------------|------------------------------------------------|
| Product                       | Wireless Headset                               |
| Brand                         | Corsair                                        |
| Test Model                    | RDA0059                                        |
| Status of EUT                 | Engineering sample                             |
| Power Supply Rating           | 5Vdc from host equipment & 3.7Vdc from battery |
| Modulation Type               | GFSK                                           |
| Modulation Technology         | DTS                                            |
| Transfer Rate                 | Up to 2 Mbps                                   |
| Operating Frequency           | 2.402 GHz ~ 2.48 GHz                           |
| Number of Channel             | 40                                             |
| Field Strength Of Fundamental | 59.6 dBuV/m (Average) at 3 meters              |

Note:

1. The EUT uses following accessories.

| Item                 | Specification               |
|----------------------|-----------------------------|
| Type C - USB A cable | Shielded without core, 1.8m |

2. There are Bluetooth and SRD technology used for the EUT.
3. Bluetooth and SRD technology can not transmit at same time.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

#### 3.2 Antenna Description of EUT

1. The antenna information is listed as below.

| Gain (dBi) | Antenna Type | Connector Type |
|------------|--------------|----------------|
| 0.5        | Chip         | none           |

\* Due to radiated measurements are made and the antenna gain is already accounted for this device, so provide an antenna datasheet and/or antenna measurement report is not required. The antenna dimensions and pictures (include antenna wire length if have) are stated in EUT photo exhibit.

### 3.3 Channel List

40 channels are provided for EUT:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 0       | 2402            | 10      | 2422            | 20      | 2442            | 30      | 2462            |
| 1       | 2404            | 11      | 2424            | 21      | 2444            | 31      | 2464            |
| 2       | 2406            | 12      | 2426            | 22      | 2446            | 32      | 2466            |
| 3       | 2408            | 13      | 2428            | 23      | 2448            | 33      | 2468            |
| 4       | 2410            | 14      | 2430            | 24      | 2450            | 34      | 2470            |
| 5       | 2412            | 15      | 2432            | 25      | 2452            | 35      | 2472            |
| 6       | 2414            | 16      | 2434            | 26      | 2454            | 36      | 2474            |
| 7       | 2416            | 17      | 2436            | 27      | 2456            | 37      | 2476            |
| 8       | 2418            | 18      | 2438            | 28      | 2458            | 38      | 2478            |
| 9       | 2420            | 19      | 2440            | 29      | 2460            | 39      | 2480            |

### 3.4 Test Mode Applicability and Tested Channel Detail

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Scan:   | 1. EUT can be used in the following ways: XYZ 3-axis. Pre-scan in these ways and find the worst case as a representative test condition.<br>2. For Unwanted Emission above 1 GHz has Battery/ EUT with USB cable(Adapter) mode of power supply. Pre-scan these modes and find the worst case as a representative test condition.<br>3. For Unwanted Emission below 1 GHz has Battery/ EUT with USB cable(Adapter)/ EUT with USB cable(Laptop) mode of power supply. Pre-scan these modes and find the worst case as a representative test condition. |
| Worst Case: | 1. X/ Y/ Z Worst Condition: X Axis.<br>2. For Unwanted Emission above 1 GHz EUT with USB cable(Adapter) mode is the worst case of power supply.<br>3. For Unwanted Emission below 1 GHz EUT with USB cable(Adapter) mode is the worst case of power supply.                                                                                                                                                                                                                                                                                          |

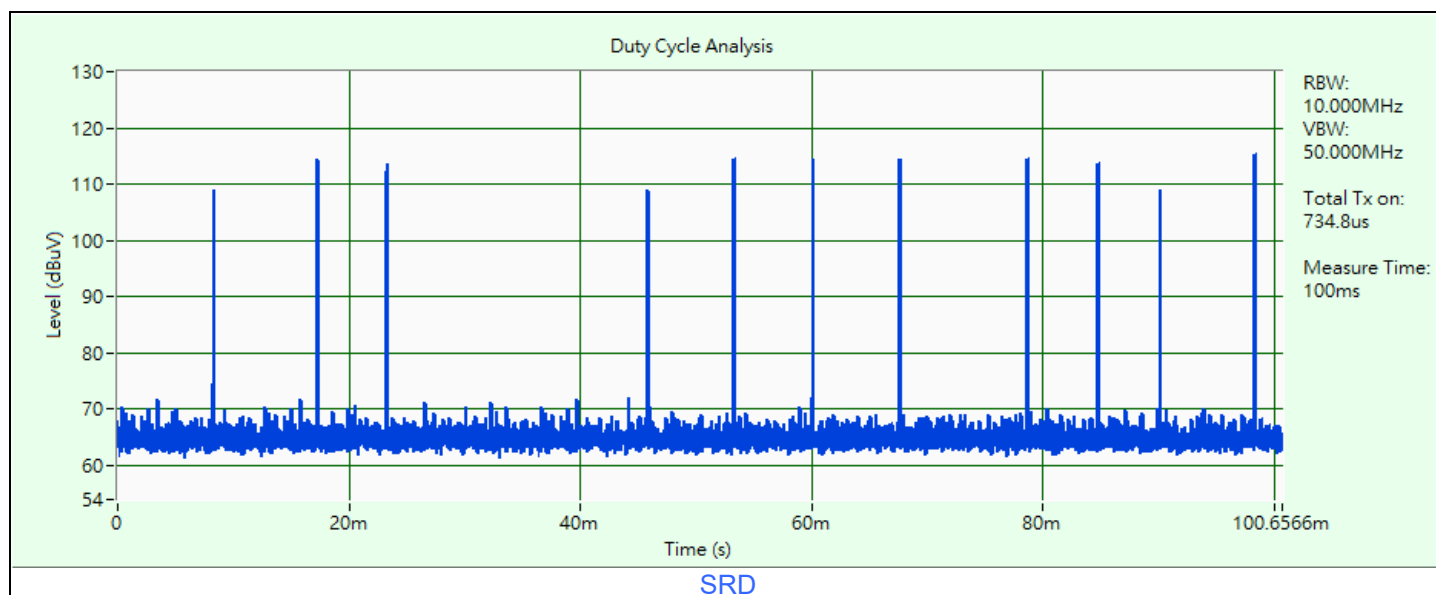
Following channel(s) was (were) selected for the final test as listed below:

| Test Item                      | EUT Configure Mode | Mode                        | Tested Channel | Modulation | Data Rate Parameter |
|--------------------------------|--------------------|-----------------------------|----------------|------------|---------------------|
| AC Power Conducted Emissions   | A                  | SRD 1M                      | 0              | GFSK       | 1Mb/s               |
|                                | B                  | -                           | -              | -          | -                   |
| Radiated Emissions below 1 GHz | A                  | SRD 1M                      | 0              | GFSK       | 1Mb/s               |
| Radiated Emissions above 1 GHz | A                  | SRD 1M                      | 0, 19, 39      | GFSK       | 1Mb/s               |
|                                |                    | SRD 2M                      | 0, 19, 39      | GFSK       | 2Mb/s               |
| 20 dB Bandwidth                | A                  | SRD 1M                      | 0, 19, 39      | GFSK       | 1Mb/s               |
|                                |                    | SRD 2M                      | 0, 19, 39      | GFSK       | 2Mb/s               |
| EUT Configure Mode:            | A                  | EUT with USB cable(Adapter) |                |            |                     |
|                                | B                  | EUT with USB cable(Laptop)  |                |            |                     |

Note: Mode B involves the EUT connected to a laptop via a USB cable. As this is a wired mode without wireless functionality, parameters for modulation and data rate are not applicable; therefore, these fields are represented by "-" in the Test Mode interface.

### 3.5 Duty Cycle of Test Signal

**SRD:** Duty cycle =  $0.7348 \text{ ms} / 100 \text{ ms} \times 100\% = 0.7\%$

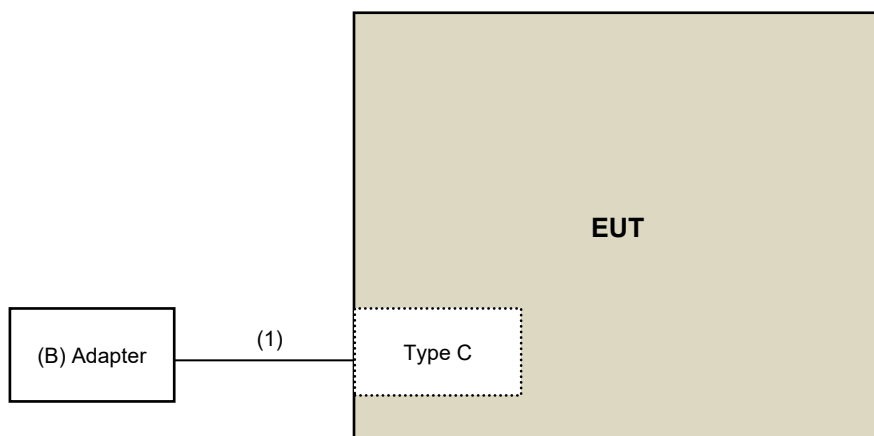


### 3.6 Test Program Used and Operation Descriptions

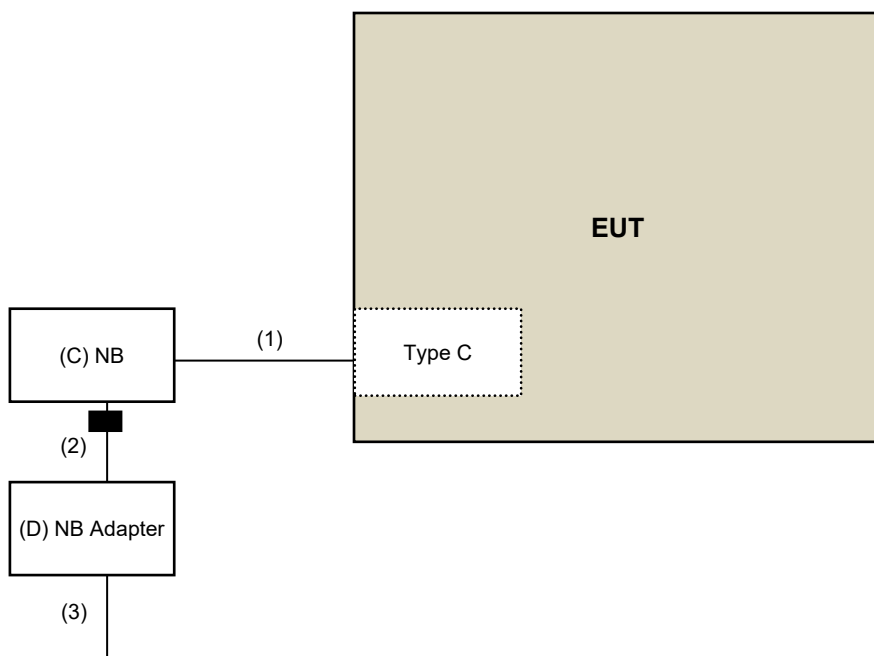
Controlling software (BT:ATS303X\_FCC\_V1.0\_20230308,SRD:ATS303X\_FCC\_2\_4\_G\_V3.0\_20260320) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 3.7 Connection Diagram of EUT and Peripheral Devices

Mode A



Mode B



### 3.8 Configuration of Peripheral Devices and Cable Connections

| ID | Product    | Brand  | Model No.  | Serial No. | FCC ID | Remarks         |
|----|------------|--------|------------|------------|--------|-----------------|
| A  | NB Adapter | Dell   | LA65NS2-01 | N/A        | N/A    | Provided by Lab |
| B  | Adapter    | Belkin | WCB007dq   | N/A        | N/A    | Provided by Lab |
| C  | NB         | Dell   | P90F       | N/A        | N/A    | Provided by Lab |

| ID | Cable Descriptions   | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks               |
|----|----------------------|------|------------|--------------------|--------------|-----------------------|
| 1  | Type C - USB A cable | 1    | 1.8        | Y                  | 0            | Supplied by applicant |
| 2  | NB Adapter DC cable  | 1    | 1.9        | N                  | 1            | Provided by Lab       |
| 3  | NB Adapter AC cable  | 1    | 0.8        | N                  | 0            | Provided by Lab       |

## 4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.1 AC Power Conducted Emissions

| Description<br>Manufacturer             | Model No.     | Serial No.   | Calibrated Date | Calibrated Until |
|-----------------------------------------|---------------|--------------|-----------------|------------------|
| 50 ohm terminal<br>resistance<br>LYNICS | 0900510       | E1-01-305    | 2026/2/12       | 2027/2/11        |
|                                         |               | E1-01-306    | 2025/4/16       | 2026/4/15        |
| DC LISN<br>R&S                          | ESH3-Z6       | 100219       | 2025/7/10       | 2026/7/9         |
|                                         |               | 844950/018   | 2025/7/10       | 2026/7/9         |
| Diode Pulse Limiter<br>Schwarzbeck      | VTSD 9561 F-N | 01631        | 2025/5/2        | 2026/5/1         |
| EMI Test Receiver<br>R&S                | EPL 1000      | 101064       | 2025/4/17       | 2026/4/16        |
|                                         |               | 101065       | 2025/4/22       | 2026/4/21        |
|                                         | ESR3          | 102412       | 2025/12/23      | 2026/12/22       |
| High Pass Filter<br>EMCI                | 150HPF-ME     | 114005       | 2025/5/2        | 2026/5/1         |
|                                         |               | 114006       | 2025/5/2        | 2026/5/1         |
|                                         | 150HPF-MF     | 113009       | 2025/5/2        | 2026/5/1         |
| High Voltage Probe<br>Schwarzbeck       | TK9420        | 00982        | 2025/12/3       | 2026/12/2        |
| LISN<br>R&S                             | ENV216        | 101195       | 2025/7/18       | 2026/7/17        |
|                                         |               | 101196       | 2026/3/3        | 2027/3/2         |
|                                         |               | 101197       | 2025/7/4        | 2026/7/3         |
| LISN<br>Schwarzbeck                     | NNLK 8121     | 8121-731     | 2025/6/10       | 2026/6/9         |
|                                         |               | 8121-00759   | 2025/8/12       | 2026/8/11        |
|                                         |               | 8121-808     | 2025/4/23       | 2026/4/22        |
|                                         | NNLK 8129     | 00624        | 2025/10/9       | 2026/10/8        |
|                                         |               | 8129229      | 2025/10/14      | 2026/10/13       |
|                                         | NSLK 8128     | 8128-244     | 2025/11/11      | 2026/11/10       |
| Passive Voltage Probe<br>R&S            | ESH2-Z3       | 100073       | 2025/5/26       | 2026/5/25        |
| RF Coaxial Cable<br>PEWC                | 5D-FB         | Cable-CO5-01 | 2026/1/16       | 2027/1/15        |
| Software<br>BVADT                       | Cond_V7.4.1.0 | N/A          | N/A             | N/A              |

#### Notes:

1. The test was performed in Linkou Conduction 5.
2. Tested Date: 2026/3/26

#### 4.2 Radiated Emissions below 1 GHz

| Description<br>Manufacturer                     | Model No.           | Serial No.   | Calibrated Date | Calibrated Until |
|-------------------------------------------------|---------------------|--------------|-----------------|------------------|
| Bi_Log Antenna<br>Schwarzbeck                   | VULB 9168           | 137          | 2025/9/17       | 2026/9/16        |
| Coupling / Decoupling<br>Network<br>Schwarzbeck | CDNE-M2             | 00097        | 2025/5/28       | 2026/5/27        |
|                                                 | CDNE-M3             | 00091        | 2026/3/17       | 2027/3/16        |
| MXE EMI Receiver<br>Agilent                     | N9038A              | MY51210114   | 2026/2/3        | 2027/2/2         |
| Preamplifier<br>Agilent                         | 8447D               | 2944A11064   | 2026/2/13       | 2027/2/12        |
| Radiating Loop<br>Antenna<br>TESEQ              | RLA 6120-20         | 80002        | 2025/7/29       | 2026/7/28        |
| RF Coaxial Cable<br>Pacific                     | 8D-FB               | Cable-CH6-02 | 2025/6/24       | 2026/6/23        |
| Signal Analyzer<br>R&S                          | FSV40               | 101544       | 2025/7/1        | 2026/6/30        |
| Software<br>BVADT                               | Radiated_V7.7.1.1.1 | N/A          | N/A             | N/A              |
| Tower<br>ADT                                    | AT100               | 0306         | N/A             | N/A              |
| Turn Table<br>ADT                               | TT100               | 0306         | N/A             | N/A              |

Notes:

1. The test was performed in LK - 966 Chamber 6 (CH 6) (Linkou).
2. Tested Date: 2026/3/26

#### 4.3 Radiated Emissions above 1 GHz

| Description<br>Manufacturer              | Model No.           | Serial No.   | Calibrated Date | Calibrated Until |
|------------------------------------------|---------------------|--------------|-----------------|------------------|
| Boresight antenna tower<br>fixture<br>BV | BAF-02              | 6            | N/A             | N/A              |
| High Pass Filter<br>Wainwright           | WHK 3.1/18G-10SS    | SN 8         | 2025/5/22       | 2026/5/21        |
| Horn Antenna<br>EMCO                     | 3115                | 00028257     | 2025/11/9       | 2026/11/8        |
| Horn Antenna<br>ETS-Lindgren             | 3117-PA             | 00215857     | 2025/11/9       | 2026/11/8        |
| Horn Antenna<br>Schwarzbeck              | BBHA 9170           | 212          | 2025/10/28      | 2026/10/27       |
|                                          |                     | BBHA9170190  | 2025/11/9       | 2026/11/8        |
| MXE EMI Receiver<br>Agilent              | N9038A              | MY51210114   | 2026/2/3        | 2027/2/2         |
| Notch Filter<br>Micro-Tronics            | BRC50703-01         | 010          | 2025/5/22       | 2026/5/21        |
|                                          | BRM17690            | 005          | 2025/5/22       | 2026/5/21        |
| Preamplifier<br>EMCI                     | EMC0126545          | 980076       | 2026/2/13       | 2027/2/12        |
|                                          | EMC184045B          | 980175       | 2025/8/23       | 2026/8/22        |
|                                          |                     | 980235       | 2026/2/13       | 2027/2/12        |
| Preamplifier<br>HP                       | 8449B               | 3008A01201   | 2026/2/13       | 2027/2/12        |
| RF Coaxial Cable<br>EMCI                 | EMC104              | 190801       | 2025/7/4        | 2026/7/3         |
|                                          |                     | 190804       | 2025/7/4        | 2026/7/3         |
| RF Coaxial Cable<br>EMEC                 | EM102-KMKM-100      | 02           | 2025/7/4        | 2026/7/3         |
| RF Coaxial Cable<br>HUBER+SUHNER         | SF-104              | Cable-CH6-01 | 2025/7/4        | 2026/7/3         |
| Signal Analyzer<br>R&S                   | FSV40               | 101042       | 2025/9/19       | 2026/9/18        |
|                                          |                     | 101544       | 2025/7/1        | 2026/6/30        |
| Software<br>BVADT                        | Radiated_V7.7.1.1.1 | N/A          | N/A             | N/A              |
| Tower<br>ADT                             | AT100               | 0306         | N/A             | N/A              |
| Turn Table<br>ADT                        | TT100               | 0306         | N/A             | N/A              |

#### Notes:

1. The test was performed in LK - 966 Chamber 6 (CH 6) (Linkou).
2. Tested Date: 2026/3/24 ~ 2026/3/25

#### 4.4 20 dB Bandwidth

| Description<br>Manufacturer     | Model No.                          | Serial No.        | Calibrated<br>Date | Calibrated<br>Until |
|---------------------------------|------------------------------------|-------------------|--------------------|---------------------|
| Fixed Attenuator<br>Woken       | 00800A1K01A-20                     | 00800A1K01A-20-02 | 2025/5/23          | 2026/5/22           |
| PXA Signal Analyzer<br>Keysight | N9030A                             | MY54490260        | 2025/7/24          | 2026/7/23           |
| Signal Analyzer<br>R&S          | FSV40                              | 101544            | 2025/7/1           | 2026/6/30           |
| Software                        | BVADT_RF_Test_Software<br>V7.6.5.4 | N/A               | N/A                | N/A                 |

Notes:

1. The test was performed in LK - Oven (Linkou).
2. Tested Date: 2026/3/25

## 5 Limits of Test Items

### 5.1 AC Power Conducted Emissions

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30.0      | 60                     | 50      |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

### 5.2 Radiated Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490     | 2400/F(kHz)                       | 300                           |
| 0.490 ~ 1.705     | 24000/F(kHz)                      | 30                            |
| 1.705 ~ 30.0      | 30                                | 30                            |
| 30 ~ 88           | 100                               | 3                             |
| 88 ~ 216          | 150                               | 3                             |
| 216 ~ 960         | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

### 5.3 Radiated Emissions above 1 GHz

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

| Fundamental Frequency | Field Strength of Fundamental (millivolts/meter) | Field Strength of Harmonics (microvolts/meter) |
|-----------------------|--------------------------------------------------|------------------------------------------------|
| 2400 ~ 2483.5 MHz     | 50                                               | 500                                            |

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits as below table, whichever is the lesser attenuation.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| Above 960         | 500                               | 3                             |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

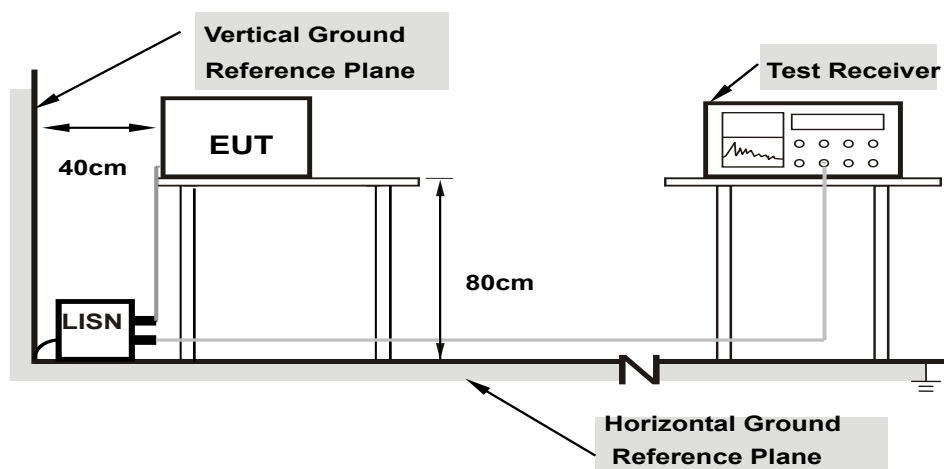
### 5.4 20 dB Bandwidth

The 20dB bandwidth shall be specified in operating frequency band.

## 6 Test Arrangements

### 6.1 AC Power Conducted Emissions

#### 6.1.1 Test Setup



**Note: 1.Support units were connected to second LISN.**

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 6.1.2 Test Procedure

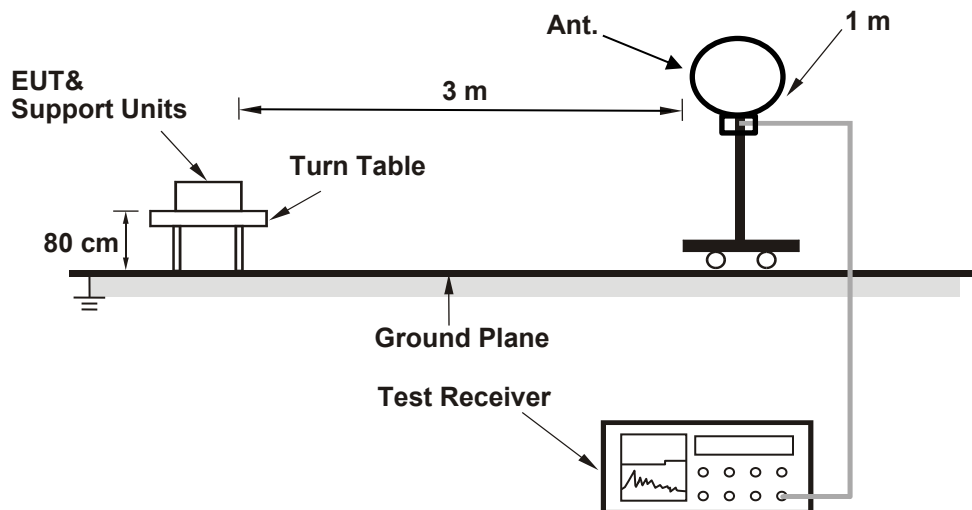
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

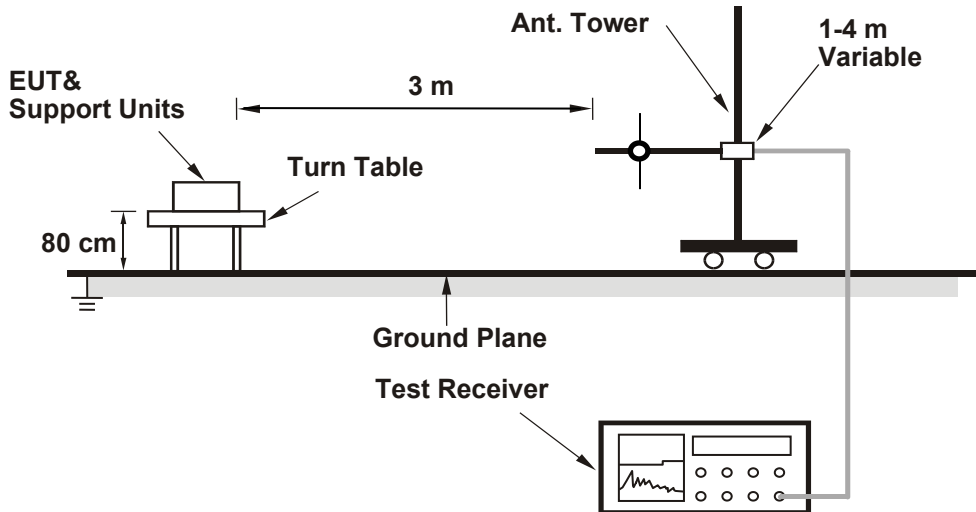
## 6.2 Radiated Emissions below 1 GHz

### 6.2.1 Test Setup

#### For Radiated emission below 30 MHz



#### For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 6.2.2 Test Procedure

### For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode (however, peak detector measurements may be used to determine compliance with QP requirements), except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

### For Radiated emission above 30 MHz

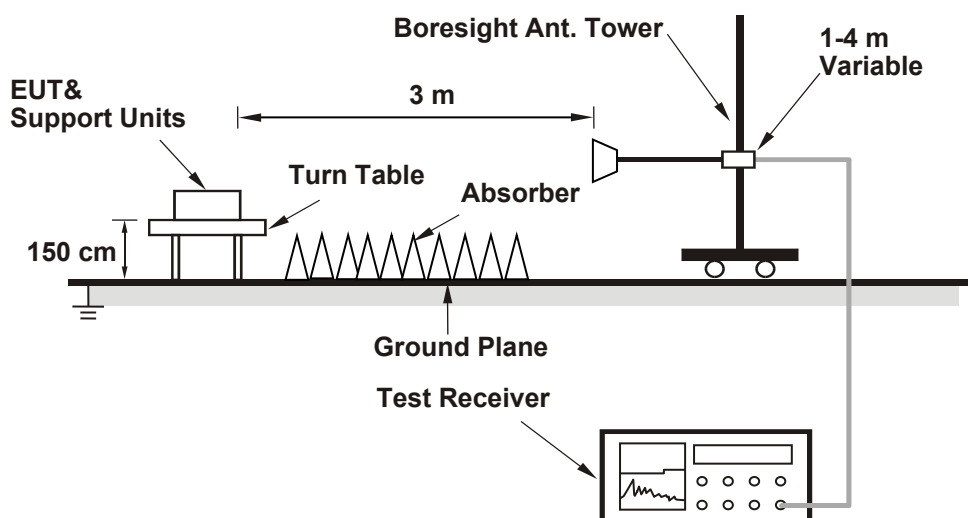
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-peak(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequencies less than or equal to 1 GHz.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz (however, peak detector measurements may be used to determine compliance with QP requirements).
2. All modes of operation were investigated and the worst-case emissions are reported.

## 6.3 Radiated Emissions above 1 GHz

### 6.3.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 6.3.2 Test Procedure

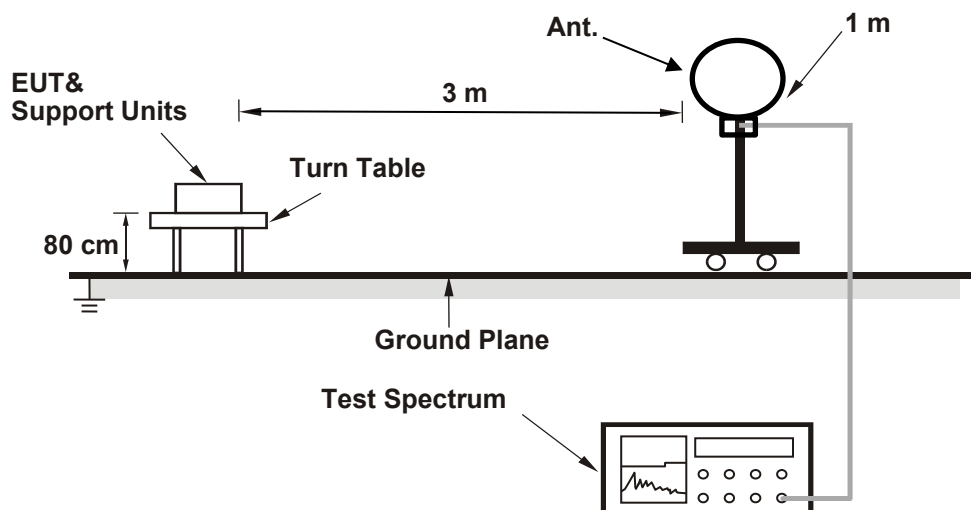
- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

#### Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- According to ANSI C63.10 section 6.6.4 and 4.1.5.2.2. For fundamental and harmonic signal measurement, according to ANSI C63.10 section 7.5, the average value = peak value + duty cycle correction factor. For duty cycle correction factor values, see the Test Signal Duty Cycle section in this report.
- All modes of operation were investigated and the worst-case emissions are reported.

## 6.4 20 dB Bandwidth

### 6.4.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo)

### 6.4.2 Test Procedure

#### Radiated Measurement:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-spectrum system was set to Peak Detect Function and Maximum Hold.
- Set resolution bandwidth (RBW) = 1% to 5% of the OBW.
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (OBW/RBW)]$  below the reference level.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

## 7 Test Results of Test Item

### 7.1 AC Power Conducted Emissions

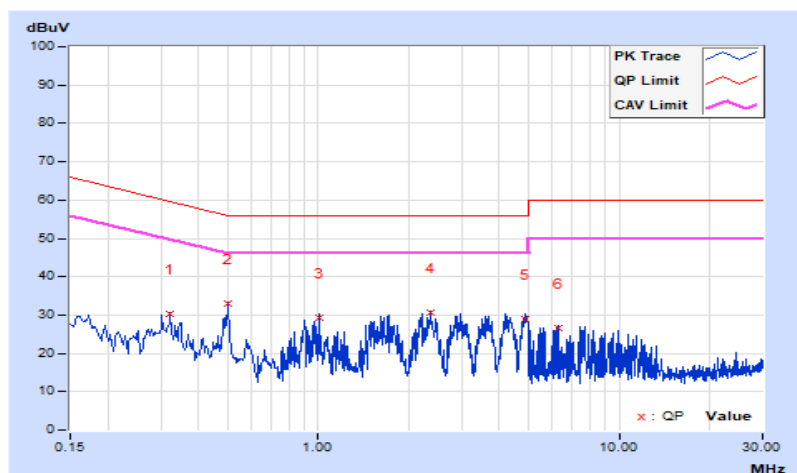
#### Mode A

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | SRD 1M           | Channel                                  | CH 0 : 2402 MHz                       |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25 °C, 75% RH                         |
| Tested By       | Jed Wu           |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.32208         | 10.37                  | 20.06                | 11.22 | 30.43                 | 21.59 | 59.65        | 49.65 | -29.22      | -28.06 |
| 2                         | 0.50000         | 10.42                  | 22.44                | 5.89  | 32.86                 | 16.31 | 56.00        | 46.00 | -23.14      | -29.69 |
| 3                         | 1.00452         | 10.47                  | 18.93                | 8.79  | 29.40                 | 19.26 | 56.00        | 46.00 | -26.60      | -26.74 |
| 4                         | 2.36164         | 10.63                  | 20.14                | 6.59  | 30.77                 | 17.22 | 56.00        | 46.00 | -25.23      | -28.78 |
| 5                         | 4.90379         | 10.76                  | 18.36                | 5.86  | 29.12                 | 16.62 | 56.00        | 46.00 | -26.88      | -29.38 |
| 6                         | 6.26716         | 10.83                  | 15.78                | 4.82  | 26.61                 | 15.65 | 60.00        | 50.00 | -33.39      | -34.35 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

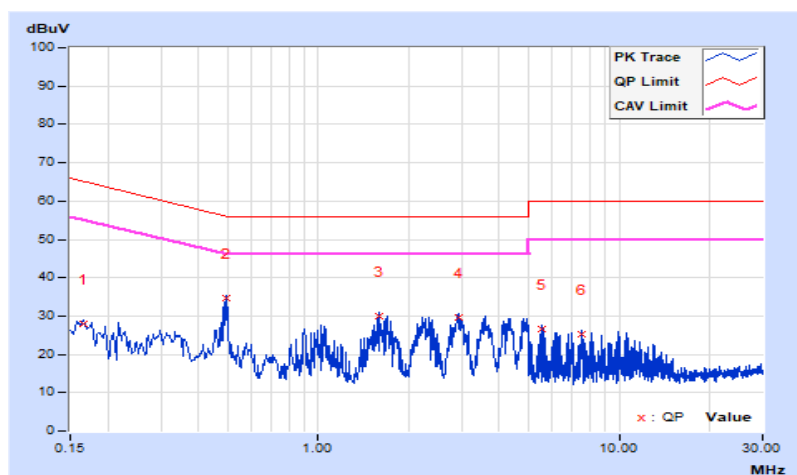


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | SRD 1M           | Channel                                  | CH 0 : 2402 MHz                       |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25 °C, 75% RH                         |
| Tested By       | Jed Wu           |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |      |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |      | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.  | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.16564         | 10.42                  | 17.69                | 7.44 | 28.11                 | 17.86 | 65.18        | 55.18 | -37.07      | -37.32 |
| 2                            | 0.49808         | 10.43                  | 24.41                | 8.55 | 34.84                 | 18.98 | 56.03        | 46.03 | -21.19      | -27.05 |
| 3                            | 1.58726         | 10.51                  | 19.43                | 7.86 | 29.94                 | 18.37 | 56.00        | 46.00 | -26.06      | -27.63 |
| 4                            | 2.93264         | 10.62                  | 18.99                | 6.97 | 29.61                 | 17.59 | 56.00        | 46.00 | -26.39      | -28.41 |
| 5                            | 5.54363         | 10.79                  | 15.72                | 5.80 | 26.51                 | 16.59 | 60.00        | 50.00 | -33.49      | -33.41 |
| 6                            | 7.52259         | 10.91                  | 14.34                | 5.72 | 25.25                 | 16.63 | 60.00        | 50.00 | -34.75      | -33.37 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



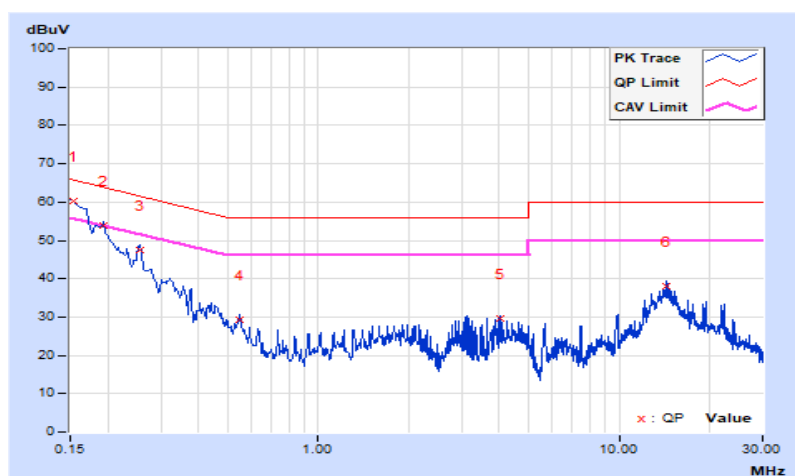
## Mode B

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25 °C, 75% RH                         |
| Tested By       | Jed Wu           |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.15391         | 10.33                  | 49.95                | 30.20 | 60.28                 | 40.53 | 65.79        | 55.79 | -5.51       | -15.26 |
| 2                         | 0.19302         | 10.32                  | 43.70                | 21.58 | 54.02                 | 31.90 | 63.91        | 53.91 | -9.89       | -22.01 |
| 3                         | 0.25526         | 10.34                  | 37.13                | 18.39 | 47.47                 | 28.73 | 61.58        | 51.58 | -14.11      | -22.85 |
| 4                         | 0.55084         | 10.43                  | 19.02                | 9.56  | 29.45                 | 19.99 | 56.00        | 46.00 | -26.55      | -26.01 |
| 5                         | 4.03554         | 10.71                  | 18.97                | 12.75 | 29.68                 | 23.46 | 56.00        | 46.00 | -26.32      | -22.54 |
| 6                         | 14.37076        | 11.14                  | 26.98                | 20.75 | 38.12                 | 31.89 | 60.00        | 50.00 | -21.88      | -18.11 |

### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

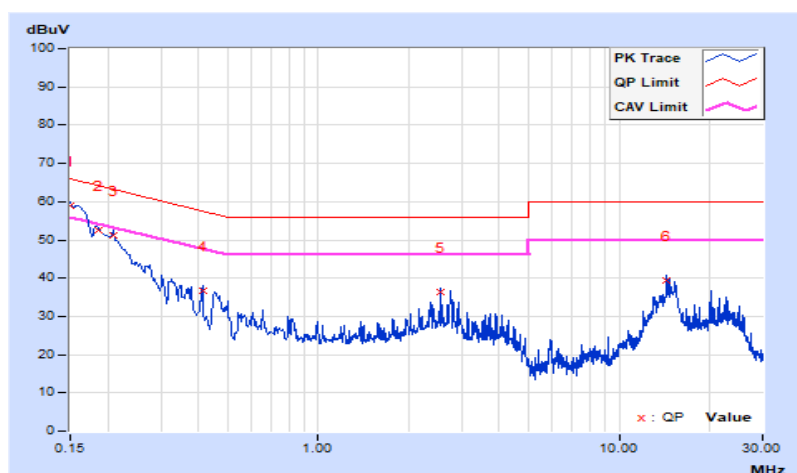


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25 °C, 75% RH                         |
| Tested By       | Jed Wu           |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.15000         | 10.42                  | 48.52                | 25.19 | 58.94                 | 35.61 | 66.00        | 56.00 | -7.06       | -20.39 |
| 2                            | 0.18520         | 10.41                  | 41.95                | 25.79 | 52.36                 | 36.20 | 64.25        | 54.25 | -11.89      | -18.05 |
| 3                            | 0.20866         | 10.41                  | 40.84                | 22.14 | 51.25                 | 32.55 | 63.26        | 53.26 | -12.01      | -20.71 |
| 4                            | 0.41204         | 10.43                  | 26.32                | 12.82 | 36.75                 | 23.25 | 57.61        | 47.61 | -20.86      | -24.36 |
| 5                            | 2.54154         | 10.60                  | 25.86                | 17.40 | 36.46                 | 28.00 | 56.00        | 46.00 | -19.54      | -18.00 |
| 6                            | 14.42942        | 11.16                  | 28.12                | 21.76 | 39.28                 | 32.92 | 60.00        | 50.00 | -20.72      | -17.08 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



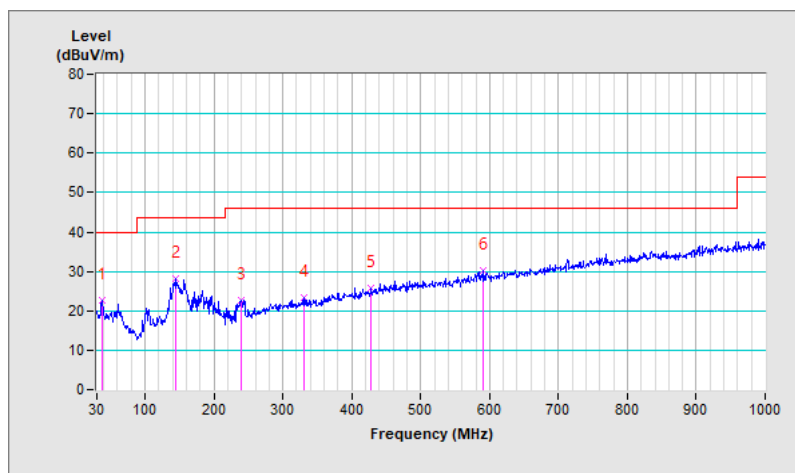
## 7.2 Radiated Emissions below 1 GHz

|                 |                |                               |                                |
|-----------------|----------------|-------------------------------|--------------------------------|
| RF Mode         | SRD 1M         | Channel                       | CH 0 : 2402 MHz                |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | QP: RB=120 kHz, DET=Quasi-Peak |
| Input Power     | 120 Vac, 60 Hz | Environmental Conditions      | 25.2 °C, 74.3% RH              |
| Tested By       | Jed Wu         |                               |                                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 37.76           | 22.8 QP                 | 40.0           | -17.2       | 1.78 H             | 174                  | 32.3             | -9.5                     |
| 2                                                    | 143.49          | 28.2 QP                 | 43.5           | -15.3       | 1.43 H             | 236                  | 36.5             | -8.3                     |
| 3                                                    | 239.52          | 22.6 QP                 | 46.0           | -23.4       | 1.28 H             | 218                  | 31.2             | -8.6                     |
| 4                                                    | 329.73          | 23.5 QP                 | 46.0           | -22.5       | 1.95 H             | 223                  | 28.3             | -4.8                     |
| 5                                                    | 427.70          | 25.6 QP                 | 46.0           | -20.4       | 1.65 H             | 179                  | 28.2             | -2.6                     |
| 6                                                    | 591.63          | 30.1 QP                 | 46.0           | -15.9       | 1.89 H             | 282                  | 29.1             | 1.0                      |

### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

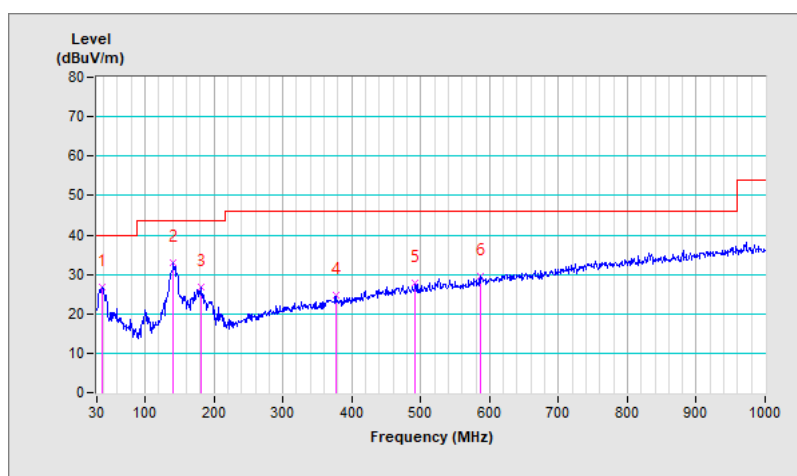


|                 |                |                               |                                |
|-----------------|----------------|-------------------------------|--------------------------------|
| RF Mode         | SRD 1M         | Channel                       | CH 0 : 2402 MHz                |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | QP: RB=120 kHz, DET=Quasi-Peak |
| Input Power     | 120 Vac, 60 Hz | Environmental Conditions      | 25.2 °C, 74.3% RH              |
| Tested By       | Jed Wu         |                               |                                |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 36.79           | 26.7 QP                 | 40.0           | -13.3       | 1.69 V             | 20                   | 36.6             | -9.9                     |
| 2                                                  | 140.58          | 33.0 QP                 | 43.5           | -10.5       | 1.35 V             | 161                  | 41.6             | -8.6                     |
| 3                                                  | 180.35          | 26.9 QP                 | 43.5           | -16.6       | 1.28 V             | 204                  | 36.0             | -9.1                     |
| 4                                                  | 376.29          | 24.6 QP                 | 46.0           | -21.4       | 1.04 V             | 17                   | 28.5             | -3.9                     |
| 5                                                  | 491.72          | 27.7 QP                 | 46.0           | -18.3       | 1.18 V             | 155                  | 29.2             | -1.5                     |
| 6                                                  | 586.78          | 29.5 QP                 | 46.0           | -16.5       | 1.97 V             | 225                  | 28.6             | 0.9                      |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



### 7.3 Radiated Emissions above 1 GHz

|                        |                |                                          |                                                                     |
|------------------------|----------------|------------------------------------------|---------------------------------------------------------------------|
| <b>RF Mode</b>         | SRD 1M         | <b>Channel</b>                           | CH 0 : 2402 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=3 MHz, DET=RMS |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 25.2 °C, 74.3% RH                                                   |
| <b>Tested By</b>       | Jed Wu         |                                          |                                                                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 2390.00         | 53.8 PK                 | 74.0           | -20.2       | 1.70 H             | 310                  | 54.1             | -0.3                     |
| 2                                                    | 2390.00         | 41.6 AV                 | 54.0           | -12.4       | 1.70 H             | 310                  | 41.9             | -0.3                     |
| 3                                                    | 2400.00         | 60.9 PK                 | 74.0           | -13.1       | 1.70 H             | 310                  | 61.2             | -0.3                     |
| 4                                                    | 2400.00         | 18.2 AV                 | 54.0           | -35.8       | 1.70 H             | 310                  | 18.5             | -0.3                     |
| 5                                                    | *2402.00        | 102.3 PK                | 114.0          | -11.7       | 1.70 H             | 310                  | 102.6            | -0.3                     |
| 6                                                    | *2402.00        | 59.6 AV                 | 94.0           | -34.4       | 1.70 H             | 310                  | 59.9             | -0.3                     |
| 7                                                    | 4804.00         | 49.1 PK                 | 74.0           | -24.9       | 1.33 H             | 19                   | 41.7             | 7.4                      |
| 8                                                    | 4804.00         | 6.4 AV                  | 54.0           | -47.6       | 1.33 H             | 19                   | -1.0             | 7.4                      |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 2390.00         | 53.4 PK                 | 74.0           | -20.6       | 3.03 V             | 83                   | 53.7             | -0.3                     |
| 2                                                  | 2390.00         | 41.2 AV                 | 54.0           | -12.8       | 3.03 V             | 83                   | 41.5             | -0.3                     |
| 3                                                  | 2400.00         | 56.4 PK                 | 74.0           | -17.6       | 3.03 V             | 83                   | 56.7             | -0.3                     |
| 4                                                  | 2400.00         | 13.7 AV                 | 54.0           | -40.3       | 3.03 V             | 83                   | 14.0             | -0.3                     |
| 5                                                  | *2402.00        | 96.1 PK                 | 114.0          | -17.9       | 3.03 V             | 83                   | 96.4             | -0.3                     |
| 6                                                  | *2402.00        | 53.4 AV                 | 94.0           | -40.6       | 3.03 V             | 83                   | 53.7             | -0.3                     |
| 7                                                  | 4804.00         | 48.5 PK                 | 74.0           | -25.5       | 3.38 V             | 309                  | 41.1             | 7.4                      |
| 8                                                  | 4804.00         | 5.8 AV                  | 54.0           | -48.2       | 3.38 V             | 309                  | -1.6             | 7.4                      |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:  

$$20 \log(\text{Duty cycle}) = 20 \log(0.7348 \text{ ms} / 100 \text{ ms}) = -42.7 \text{ dB}$$

|                        |                |                                          |                                                                     |
|------------------------|----------------|------------------------------------------|---------------------------------------------------------------------|
| <b>RF Mode</b>         | SRD 1M         | <b>Channel</b>                           | CH 19 : 2440 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=3 MHz, DET=RMS |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 25.2 °C, 74.3% RH                                                   |
| <b>Tested By</b>       | Jed Wu         |                                          |                                                                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *2440.00        | 101.9 PK                | 114.0          | -12.1       | 2.37 H             | 297                  | 102.0            | -0.1                     |
| 2                                                    | *2440.00        | 59.2 AV                 | 94.0           | -34.8       | 2.37 H             | 297                  | 59.3             | -0.1                     |
| 3                                                    | 4880.00         | 48.7 PK                 | 74.0           | -25.3       | 2.00 H             | 6                    | 40.9             | 7.8                      |
| 4                                                    | 4880.00         | 6.0 AV                  | 54.0           | -48.0       | 2.00 H             | 6                    | -1.8             | 7.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *2440.00        | 95.7 PK                 | 114.0          | -18.3       | 3.70 V             | 70                   | 95.8             | -0.1                     |
| 2                                                    | *2440.00        | 53.0 AV                 | 94.0           | -41.0       | 3.70 V             | 70                   | 53.1             | -0.1                     |
| 3                                                    | 4880.00         | 48.1 PK                 | 74.0           | -25.9       | 2.71 V             | 296                  | 40.3             | 7.8                      |
| 4                                                    | 4880.00         | 5.4 AV                  | 54.0           | -48.6       | 2.71 V             | 296                  | -2.4             | 7.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:  

$$20 \log(\text{Duty cycle}) = 20 \log(0.7348 \text{ ms} / 100 \text{ ms}) = -42.7 \text{ dB}$$

|                        |                |                                          |                                                                     |
|------------------------|----------------|------------------------------------------|---------------------------------------------------------------------|
| <b>RF Mode</b>         | SRD 1M         | <b>Channel</b>                           | CH 39 : 2480 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=3 MHz, DET=RMS |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 25.2 °C, 74.3% RH                                                   |
| <b>Tested By</b>       | Jed Wu         |                                          |                                                                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *2480.00        | 101.4 PK                | 114.0          | -12.6       | 1.20 H             | 296                  | 101.2            | 0.2                      |
| 2                                                    | *2480.00        | 58.7 AV                 | 94.0           | -35.3       | 1.20 H             | 296                  | 58.5             | 0.2                      |
| 3                                                    | 2483.50         | 54.0 PK                 | 74.0           | -20.0       | 1.20 H             | 296                  | 53.8             | 0.2                      |
| 4                                                    | 2483.50         | 42.4 AV                 | 54.0           | -11.6       | 1.20 H             | 296                  | 42.2             | 0.2                      |
| 5                                                    | 4960.00         | 48.2 PK                 | 74.0           | -25.8       | 3.17 H             | 5                    | 40.4             | 7.8                      |
| 6                                                    | 4960.00         | 5.5 AV                  | 54.0           | -48.5       | 3.17 H             | 5                    | -2.3             | 7.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *2480.00        | 95.2 PK                 | 114.0          | -18.8       | 2.53 V             | 69                   | 95.0             | 0.2                      |
| 2                                                    | *2480.00        | 52.5 AV                 | 94.0           | -41.5       | 2.53 V             | 69                   | 52.3             | 0.2                      |
| 3                                                    | 2483.50         | 53.6 PK                 | 74.0           | -20.4       | 2.53 V             | 69                   | 53.4             | 0.2                      |
| 4                                                    | 2483.50         | 42.0 AV                 | 54.0           | -12.0       | 2.53 V             | 69                   | 41.8             | 0.2                      |
| 5                                                    | 4960.00         | 47.6 PK                 | 74.0           | -26.4       | 1.54 V             | 295                  | 39.8             | 7.8                      |
| 6                                                    | 4960.00         | 4.9 AV                  | 54.0           | -49.1       | 1.54 V             | 295                  | -2.9             | 7.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:  
 $20 \log(\text{Duty cycle}) = 20 \log(0.7348 \text{ ms} / 100 \text{ ms}) = -42.7 \text{ dB}$

|                 |                |                               |                                                                     |
|-----------------|----------------|-------------------------------|---------------------------------------------------------------------|
| RF Mode         | SRD 2M         | Channel                       | CH 0 : 2402 MHz                                                     |
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=3 MHz, DET=RMS |
| Input Power     | 120 Vac, 60 Hz | Environmental Conditions      | 25.2 °C, 74.3% RH                                                   |
| Tested By       | Jed Wu         |                               |                                                                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 2390.00         | 52.6 PK                 | 74.0           | -21.4       | 1.30 H             | 297                  | 52.9             | -0.3                     |
| 2                                                    | 2390.00         | 41.5 AV                 | 54.0           | -12.5       | 1.30 H             | 297                  | 41.8             | -0.3                     |
| 3                                                    | 2400.00         | 69.3 PK                 | 74.0           | -4.7        | 1.30 H             | 297                  | 69.6             | -0.3                     |
| 4                                                    | 2400.00         | 26.6 AV                 | 54.0           | -27.4       | 1.30 H             | 297                  | 26.9             | -0.3                     |
| 5                                                    | *2402.00        | 101.9 PK                | 114.0          | -12.1       | 1.30 H             | 297                  | 102.2            | -0.3                     |
| 6                                                    | *2402.00        | 59.2 AV                 | 94.0           | -34.8       | 1.30 H             | 297                  | 59.5             | -0.3                     |
| 7                                                    | 4804.00         | 48.7 PK                 | 74.0           | -25.3       | 1.73 H             | 6                    | 41.3             | 7.4                      |
| 8                                                    | 4804.00         | 6.0 AV                  | 54.0           | -48.0       | 1.73 H             | 6                    | -1.4             | 7.4                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 2390.00         | 52.2 PK                 | 74.0           | -21.8       | 2.63 V             | 70                   | 52.5             | -0.3                     |
| 2                                                    | 2390.00         | 41.1 AV                 | 54.0           | -12.9       | 2.63 V             | 70                   | 41.4             | -0.3                     |
| 3                                                    | 2400.00         | 64.0 PK                 | 74.0           | -10.0       | 2.63 V             | 70                   | 64.3             | -0.3                     |
| 4                                                    | 2400.00         | 21.3 AV                 | 54.0           | -32.7       | 2.63 V             | 70                   | 21.6             | -0.3                     |
| 5                                                    | *2402.00        | 95.7 PK                 | 114.0          | -18.3       | 2.63 V             | 70                   | 96.0             | -0.3                     |
| 6                                                    | *2402.00        | 53.0 AV                 | 94.0           | -41.0       | 2.63 V             | 70                   | 53.3             | -0.3                     |
| 7                                                    | 4804.00         | 48.1 PK                 | 74.0           | -25.9       | 2.98 V             | 296                  | 40.7             | 7.4                      |
| 8                                                    | 4804.00         | 5.4 AV                  | 54.0           | -48.6       | 2.98 V             | 296                  | -2.0             | 7.4                      |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:  

$$20 \log(\text{Duty cycle}) = 20 \log(0.7348 \text{ ms} / 100 \text{ ms}) = -42.7 \text{ dB}$$

|                        |                |                                          |                                                                     |
|------------------------|----------------|------------------------------------------|---------------------------------------------------------------------|
| <b>RF Mode</b>         | SRD 2M         | <b>Channel</b>                           | CH 19 : 2440 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=3 MHz, DET=RMS |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 25.2 °C, 74.3% RH                                                   |
| <b>Tested By</b>       | Jed Wu         |                                          |                                                                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *2440.00        | 101.5 PK                | 114.0          | -12.5       | 2.56 H             | 175                  | 101.6            | -0.1                     |
| 2                                                    | *2440.00        | 58.8 AV                 | 94.0           | -35.2       | 2.56 H             | 175                  | 58.9             | -0.1                     |
| 3                                                    | 4880.00         | 48.3 PK                 | 74.0           | -25.7       | 1.89 H             | 278                  | 40.5             | 7.8                      |
| 4                                                    | 4880.00         | 5.6 AV                  | 54.0           | -48.4       | 1.89 H             | 278                  | -2.2             | 7.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *2440.00        | 95.3 PK                 | 114.0          | -18.7       | 1.34 V             | 315                  | 95.4             | -0.1                     |
| 2                                                    | *2440.00        | 52.6 AV                 | 94.0           | -41.4       | 1.34 V             | 315                  | 52.7             | -0.1                     |
| 3                                                    | 4880.00         | 47.7 PK                 | 74.0           | -26.3       | 1.58 V             | 143                  | 39.9             | 7.8                      |
| 4                                                    | 4880.00         | 5.0 AV                  | 54.0           | -49.0       | 1.58 V             | 143                  | -2.8             | 7.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:  

$$20 \log(\text{Duty cycle}) = 20 \log(0.7348 \text{ ms} / 100 \text{ ms}) = -42.7 \text{ dB}$$

|                        |                |                                          |                                                                     |
|------------------------|----------------|------------------------------------------|---------------------------------------------------------------------|
| <b>RF Mode</b>         | SRD 2M         | <b>Channel</b>                           | CH 39 : 2480 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=3 MHz, DET=RMS |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 25.2 °C, 74.3% RH                                                   |
| <b>Tested By</b>       | Jed Wu         |                                          |                                                                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *2480.00        | 100.9 PK                | 114.0          | -13.1       | 1.20 H             | 296                  | 100.7            | 0.2                      |
| 2                                                    | *2480.00        | 58.2 AV                 | 94.0           | -35.8       | 1.20 H             | 296                  | 58.0             | 0.2                      |
| 3                                                    | 2483.50         | 54.0 PK                 | 74.0           | -20.0       | 1.20 H             | 296                  | 53.8             | 0.2                      |
| 4                                                    | 2483.50         | 43.0 AV                 | 54.0           | -11.0       | 1.20 H             | 296                  | 42.8             | 0.2                      |
| 5                                                    | 4960.00         | 47.7 PK                 | 74.0           | -26.3       | 1.63 H             | 5                    | 39.9             | 7.8                      |
| 6                                                    | 4960.00         | 5.0 AV                  | 54.0           | -49.0       | 1.63 H             | 5                    | -2.8             | 7.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *2480.00        | 94.7 PK                 | 114.0          | -19.3       | 2.53 V             | 69                   | 94.5             | 0.2                      |
| 2                                                    | *2480.00        | 52.0 AV                 | 94.0           | -42.0       | 2.53 V             | 69                   | 51.8             | 0.2                      |
| 3                                                    | 2483.50         | 53.6 PK                 | 74.0           | -20.4       | 2.53 V             | 69                   | 53.4             | 0.2                      |
| 4                                                    | 2483.50         | 42.6 AV                 | 54.0           | -11.4       | 2.53 V             | 69                   | 42.4             | 0.2                      |
| 5                                                    | 4960.00         | 47.1 PK                 | 74.0           | -26.9       | 2.88 V             | 295                  | 39.3             | 7.8                      |
| 6                                                    | 4960.00         | 4.4 AV                  | 54.0           | -49.6       | 2.88 V             | 295                  | -3.4             | 7.8                      |

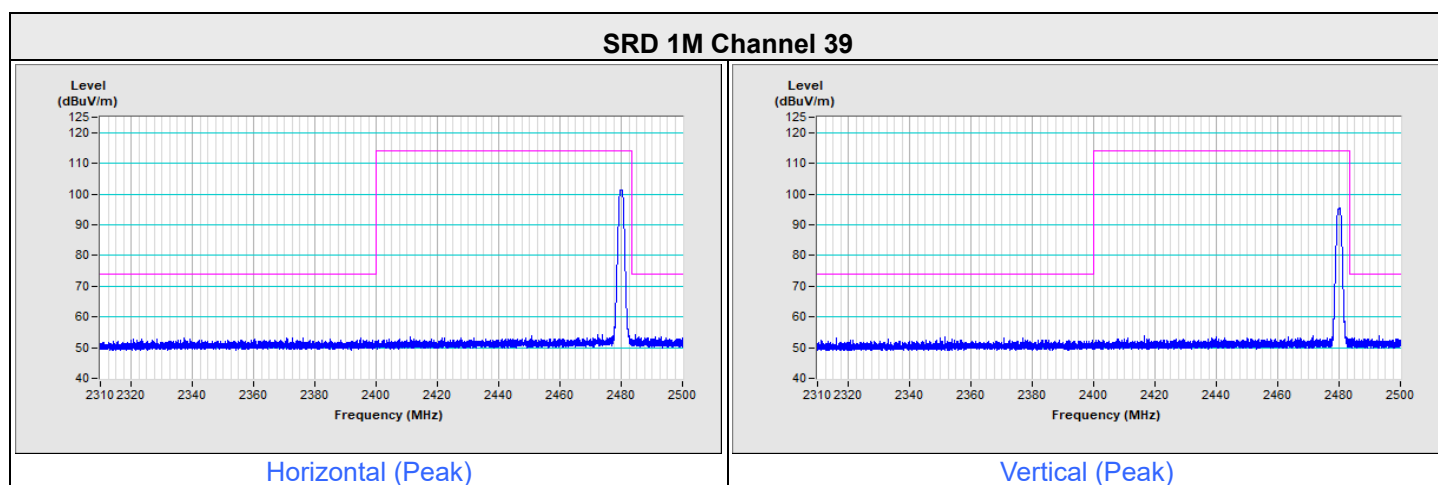
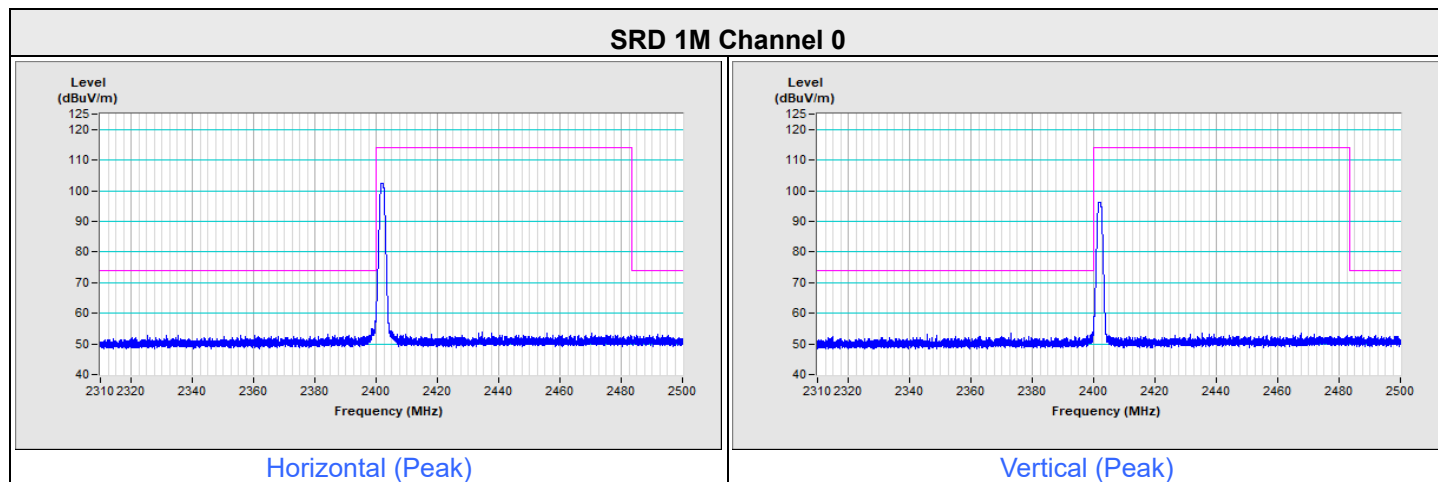
**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:  

$$20 \log(\text{Duty cycle}) = 20 \log(0.7348 \text{ ms} / 100 \text{ ms}) = -42.7 \text{ dB}$$

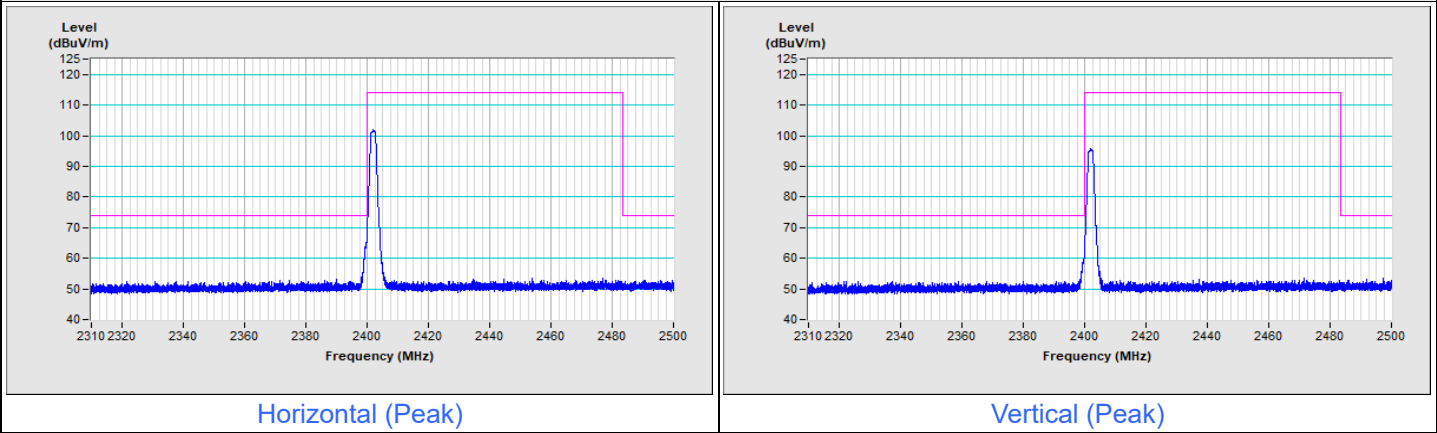
## Plot of Band Edge

|                 |                    |                               |                                  |
|-----------------|--------------------|-------------------------------|----------------------------------|
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|--------------------|-------------------------------|----------------------------------|

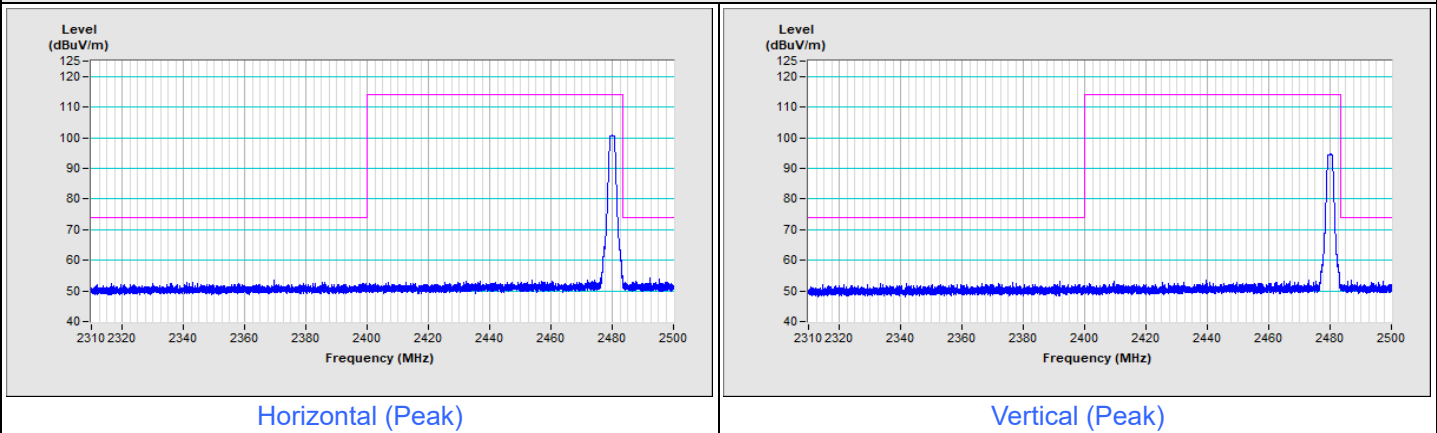


|                 |                    |                               |                                  |
|-----------------|--------------------|-------------------------------|----------------------------------|
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|--------------------|-------------------------------|----------------------------------|

SRD 2M Channel 0



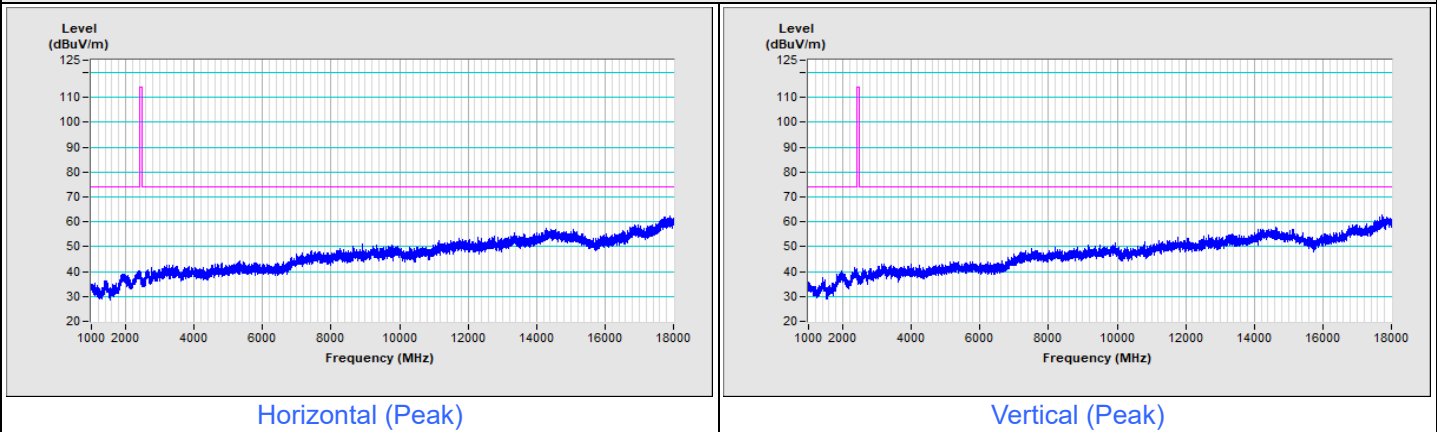
SRD 2M Channel 39



Plot of Other Emission

|                 |                |                               |                                  |
|-----------------|----------------|-------------------------------|----------------------------------|
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|----------------|-------------------------------|----------------------------------|

SRD 2M Channel 0



- Notes:
1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
  2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

#### 7.4 20 dB Bandwidth

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

##### SRD 1M

| Channel | Channel Frequency (MHz) | 20 dB Bandwidth (MHz) | Measured Frequencies |          | Operating Frequency Band (MHz) | Test Result |
|---------|-------------------------|-----------------------|----------------------|----------|--------------------------------|-------------|
|         |                         |                       | FL (MHz)             | FH (MHz) |                                |             |
| 0       | 2402                    | 1.17                  | 2401.42              | 2402.59  | 2400 ~ 2483.5                  | Pass        |
| 19      | 2440                    | 1.17                  | 2439.42              | 2440.59  |                                | Pass        |
| 39      | 2480                    | 1.17                  | 2479.42              | 2480.59  |                                | Pass        |

Notes:

1. FL is the lowest frequency of the 20 dB bandwidth of power envelope.
2. FH is the highest frequency of the 20 dB bandwidth of power envelope.

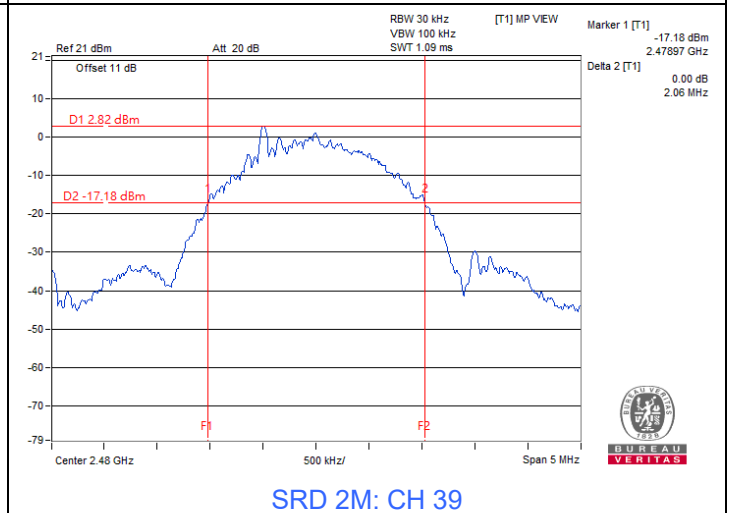
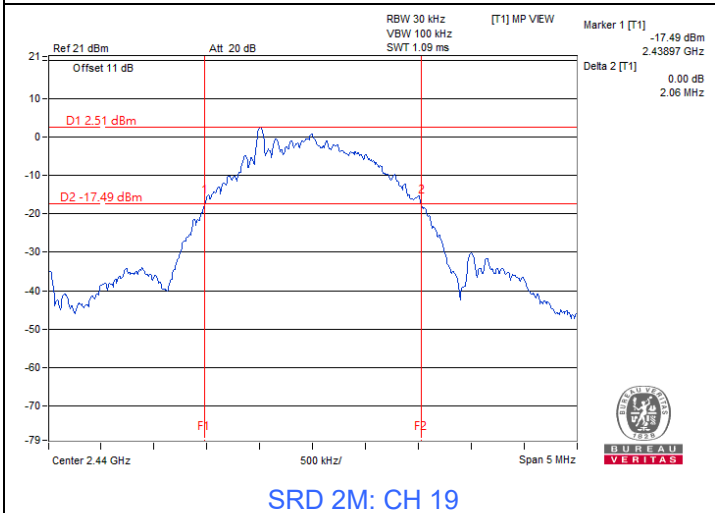
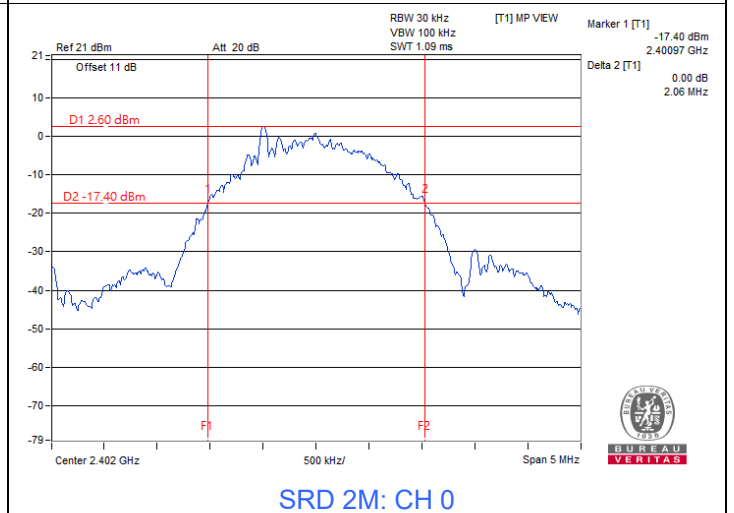
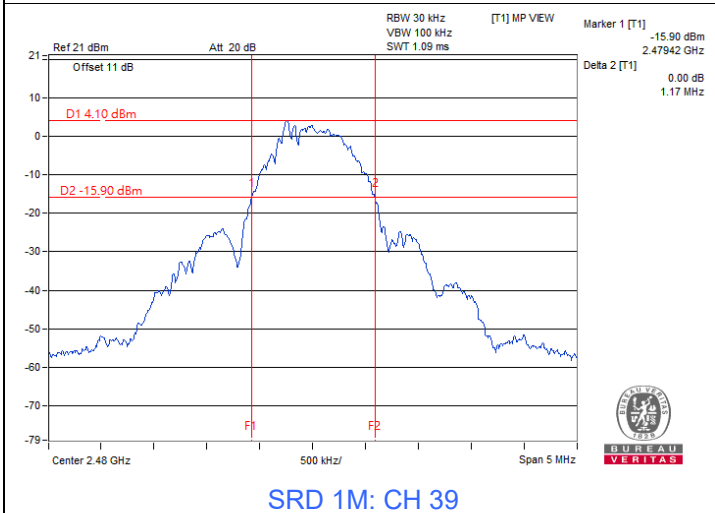
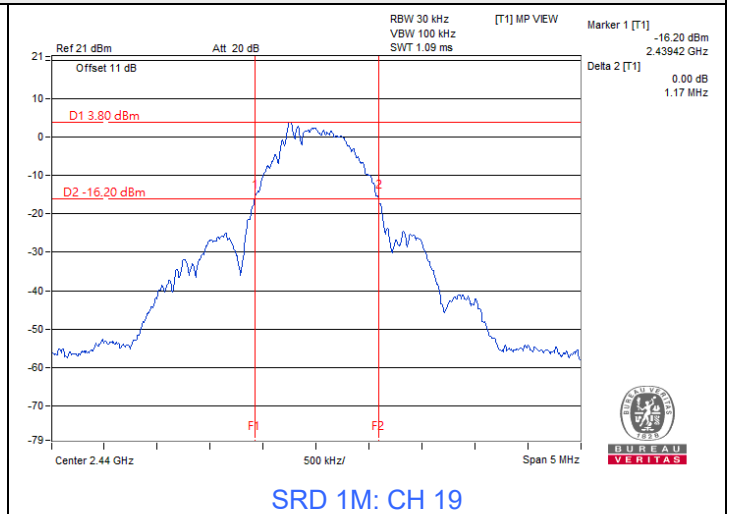
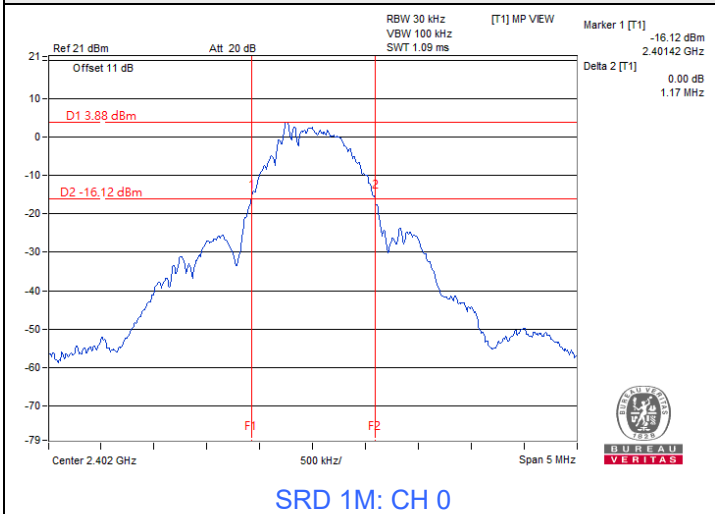
##### SRD 2M

| Channel | Channel Frequency (MHz) | 20 dB Bandwidth (MHz) | Measured Frequencies |          | Operating Frequency Band (MHz) | Test Result |
|---------|-------------------------|-----------------------|----------------------|----------|--------------------------------|-------------|
|         |                         |                       | FL (MHz)             | FH (MHz) |                                |             |
| 0       | 2402                    | 2.06                  | 2400.97              | 2403.03  | 2400 ~ 2483.5                  | Pass        |
| 19      | 2440                    | 2.06                  | 2438.97              | 2441.03  |                                | Pass        |
| 39      | 2480                    | 2.06                  | 2478.97              | 2481.03  |                                | Pass        |

Notes:

1. FL is the lowest frequency of the 20 dB bandwidth of power envelope.
2. FH is the highest frequency of the 20 dB bandwidth of power envelope.

## Spectrum Plot



## 8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

## 9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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