

# TEST REPORT

Applicant Name: Dragino Technology Co., Limited.  
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LongCheng Street, LongGang District, Shenzhen China  
Report Number: 2401W20143E-RF-00B  
FCC ID: ZHZLA66-V2

## Test Standard (s)

FCC PART 15.247

## Sample Description

Product Type: LA66 USB Adapter V2  
Model No.: LA66 USB Adapter V2  
Multiple Model(s) No.: N/A  
Trade Mark: DRAGINO  
Date Received: 2024/08/23  
Issue Date: 2024/11/06

Test Result:

Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

## Prepared and Checked By:

Gala Liu

Gala Liu  
RF Engineer

## Approved By:

Nancy Wang

Nancy Wang  
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 0               | 2401W20143E-RF-00B | Original Report         | 2024/11/06       |

## GENERAL INFORMATION

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

|                                     |   |
|-------------------------------------|---|
| Product                             | LA66 USB Adapter V2   |
| Tested Model                        | LA66 USB Adapter V2   |
| Multiple Model(s)                   | N/A   |
| Frequency Range                     | 904.6-923.3MHz  |
| Maximum Conducted Peak Output Power | 8.26dBm   |
| Technique                           | DTS   |
| Antenna Specification <sup>#</sup>  | 1.34dBi (provided by the applicant)   |
| Voltage Range                       | DC 5V from USB  |
| Sample serial number                | 2QHL-4 for Conducted and Radiated Emissions Test<br>2QHL-5 for RF Conducted Test (Assigned by BACL, Shenzhen) |
| Sample/EUT Status                   | Good condition  |
| Adapter Information                 | N/A   |
|                                     |   |

### Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices .

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

## Measurement Uncertainty

| Parameter                             |                             | Uncertainty                             |
|---------------------------------------|-----------------------------|---|
| Occupied Channel Bandwidth            |                             | ±5%                                     |
| RF Frequency                          |                             | 213.55 Hz(k=2, 95% level of confidence) |
| RF output power, conducted            |                             | 0.72 dB(k=2, 95% level of confidence)   |
| Unwanted Emission, conducted          |                             | 1.75 dB(k=2, 95% level of confidence)   |
| AC Power Lines<br>Conducted Emissions | 9kHz~150 kHz                | 3.94dB(k=2, 95% level of confidence)    |
|                                       | 150 kHz ~30MHz              | 3.84dB(k=2, 95% level of confidence)    |
| Radiated Emissions                    | 9kHz - 30MHz                | 3.30dB(k=2, 95% level of confidence)    |
|                                       | 30MHz~200MHz (Horizontal)   | 4.48dB(k=2, 95% level of confidence)    |
|                                       | 30MHz~200MHz (Vertical)     | 4.55dB(k=2, 95% level of confidence)    |
|                                       | 200MHz~1000MHz (Horizontal) | 4.85dB(k=2, 95% level of confidence)    |
|                                       | 200MHz~1000MHz (Vertical)   | 5.05dB(k=2, 95% level of confidence)    |
|                                       | 1GHz - 6GHz                 | 5.35dB(k=2, 95% level of confidence)    |
|                                       | 6GHz - 18GHz                | 5.44dB(k=2, 95% level of confidence)    |
|                                       | 18GHz - 40GHz               | 5.16dB(k=2, 95% level of confidence)    |
| Temperature                           |                             | ±1°C                                    |
| Humidity                              |                             | ±1%                                     |
| Supply voltages                       |                             | ±0.4%                                   |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in engineering mode.

#### Channel List<sup>#</sup>

| Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|---------|----------------|---------|----------------|
| 1       | 904.6          | 8       | 915.8          |
| 2       | 906.2          | 9       | 917.4          |
| 3       | 907.8          | 10      | 919            |
| 4       | 909.4          | 11      | 920.6          |
| 5       | 911            | 12      | 922.2          |
| 6       | 912.6          | 13      | 923.3          |
| 7       | 914.2          | /       | /              |

EUT was test with channel 1/5/13.

### Equipment Modifications

No modification was made to the EUT tested.

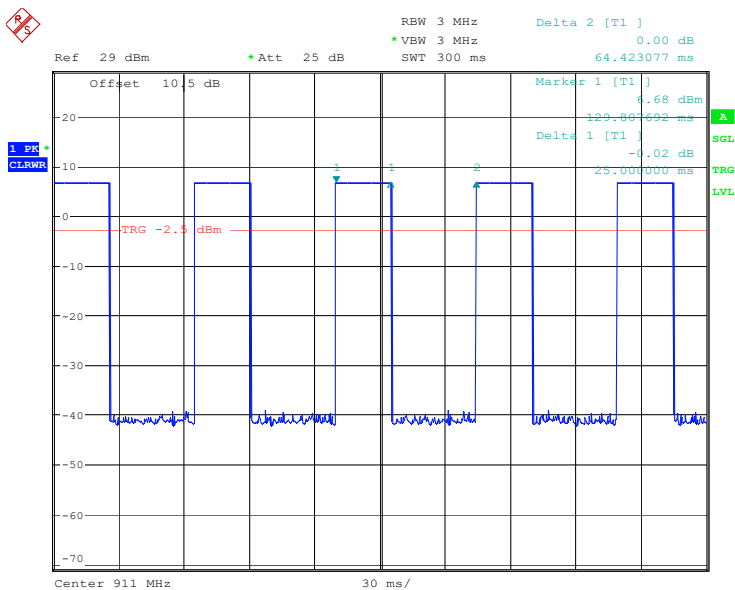
### EUT Exercise Software

“Serial PortUtility.exe<sup>#</sup>” exercise software was used and the power level is 11<sup>#</sup>. The software and power level was provided by the manufacturer.

### Duty cycle

| Test Mode | T <sub>on</sub><br>(ms) | T <sub>on+off</sub><br>(ms) | Duty Cycle<br>(%) | 1/T <sub>on</sub><br>(Hz) | VBW Setting<br>(Hz) |
|-----------|-------------------------|-----------------------------|-------------------|---------------------------|---------------------|
| DTS       | 25.00                   | 64.42                       | 38.81             | 40                        | 100                 |

Duty Cycle



ProjectNo.:2401W20143E-RF Tester:Brian Li  
Date: 23.OCT.2024 13:49:57

Support Equipment List and Details

| Manufacturer | Description | Model          | Serial Number |
|--------------|-------------|----------------|---------------|
| DELL         | Notebook    | Latitude E6410 | 11429208685   |
| Unknown      | Adapter     | Unknown        | Unknown       |

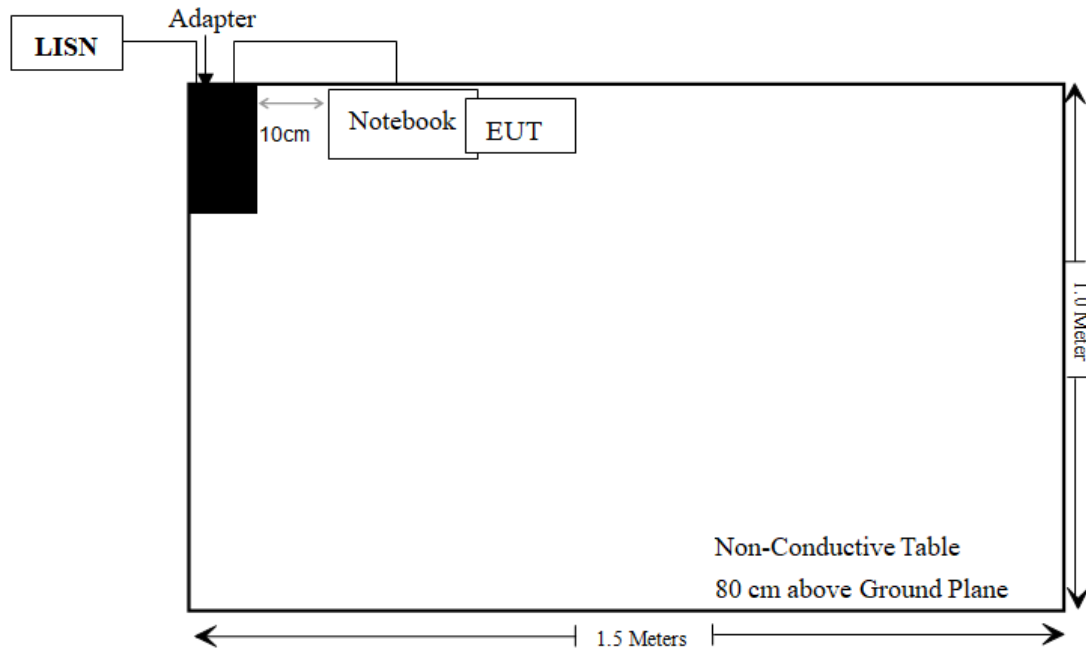
External I/O Cable

| Cable Description                 | Length (m) | From Port | To       |
|-----------------------------------|------------|-----------|----------|
| Unshielded Detachable AC Cable    | 1.5        | Adapter   | LISN     |
| Unshielded Un-Detachable DC Cable | 1.5        | Adapter   | Notebook |

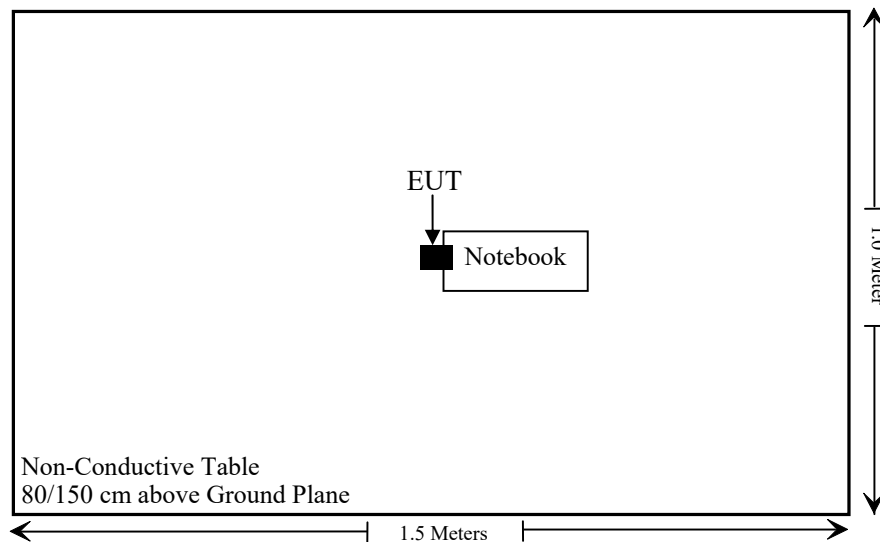


## Block Diagram of Test Setup

For Conducted Emissions:



For Radiated Emissions:



**SUMMARY OF TEST RESULTS**

| FCC Rules                                | Description of Test                          | Result    |
|--|--|-----------|
| FCC§15.247 (i), §1.1307 (b) (1) &§2.1093 | RF Exposure                                  | Compliant |
| FCC §15.203                              | Antenna Requirement                          | Compliant |
| FCC §15.207(a)                           | AC Line Conducted Emissions                  | Compliant |
| FCC §15.205, §15.209, §15.247(d)         | Spurious Emissions                           | Compliant |
| FCC §15.247 (a)(2)                       | 6 dB Emission Bandwidth & Occupied Bandwidth | Compliant |
| FCC §15.247(b)(3)                        | Maximum Conducted Output Power               | Compliant |
| FCC §15.247(d)                           | 100 kHz Bandwidth of Frequency Band Edge     | Compliant |
| FCC §15.247(e)                           | Power Spectral Density                       | Compliant |

**TEST EQUIPMENT LIST**

| Manufacturer                   | Description                       | Model             | Serial Number          | Calibration Date | Calibration Due Date |
|--------------------------------|-----------------------------------|-------------------|------------------------|------------------|----------------------|
| <b>Conducted Emission Test</b> |                                   |                   |                        |                  |                      |
| Rohde & Schwarz                | EMI Test Receiver                 | ESCI              | 101120                 | 2024/01/16       | 2025/01/15           |
| Rohde & Schwarz                | LISN                              | ENV216            | 101613                 | 2024/01/16       | 2025/01/15           |
| Rohde & Schwarz                | Transient Limiter                 | ESH3Z2            | DE25985                | 2024/05/21       | 2025/05/20           |
| Unknown                        | CE Cable                          | Unknown           | UF A210B-1-0720-504504 | 2024/05/21       | 2025/05/20           |
| Audix                          | EMI Test software                 | E3                | 191218(V9)             | NCR              | NCR                  |
| <b>Radiated Emission Test</b>  |                                   |                   |                        |                  |                      |
| Rohde & Schwarz                | EMI Test Receiver                 | ESR3              | 102455                 | 2024/01/16       | 2025/01/15           |
| Sonoma instrument              | Pre-amplifier                     | 310 N             | 186238                 | 2024/05/21       | 2025/05/20           |
| Sunol Sciences                 | Broadband Antenna                 | JB1               | A040904-1              | 2023/07/20       | 2026/07/19           |
| Unknown                        | Cable                             | Chamber A Cable 1 | N/A                    | 2024/06/18       | 2025/06/17           |
| Unknown                        | Cable                             | XH500C            | J-10M-A                | 2024/06/18       | 2025/06/17           |
| BACL                           | Active Loop Antenna               | 1313-1A           | 4031911                | 2024/05/14       | 2027/05/13           |
| Audix                          | EMI Test software                 | E3                | 19821b(V9)             | NCR              | NCR                  |
| Rohde & Schwarz                | Spectrum Analyzer                 | FSV40             | 101605                 | 2024/03/27       | 2025/03/26           |
| COM-POWER                      | Pre-amplifier                     | PA-122            | 181919                 | 2024/06/18       | 2025/06/17           |
| Schwarzbeck                    | Horn Antenna                      | BBHA9120D(1201)   | 1143                   | 2023/07/26       | 2026/07/25           |
| Unknown                        | RF Cable                          | KMSE              | 735                    | 2024/06/18       | 2025/06/17           |
| Unknown                        | RF Cable                          | UFA147            | 219661                 | 2024/06/18       | 2025/06/17           |
| Unknown                        | RF Cable                          | XH750A-N          | J-10M                  | 2024/06/18       | 2025/06/17           |
| JD                             | Multiplex Switch Test Control Set | DT7220FSU         | DQ77926                | 2024/06/18       | 2025/06/17           |
| Audix                          | EMI Test software                 | E3                | 191218(V9)             | NCR              | NCR                  |
| <b>RF Conducted Test</b>       |                                   |                   |                        |                  |                      |
| R&S                            | SPECTRUM ANALYZER                 | FSU26             | 200120                 | 2024/01/08       | 2025/01/07           |
| Rohde & Schwarz                | Spectrum Analyzer                 | FSV40             | 101942                 | 2023/12/18       | 2024/12/17           |
| MARCONI                        | 10dB Attenuator                   | 6534/3            | 2942                   | 2024/06/27       | 2025/06/26           |

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

**FCC§15.247 (i)&§1.1307 (b) &§2.1093 - RF EXPOSURE****Applicable Standard**

According to FCC §2.1093 and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

1.  $f(\text{GHz})$  is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test Exclusion.

**Measurement Result**

| Mode | Frequency (MHz) | Max tune-up conducted power <sup>#</sup> (dBm) | Max tune-up conducted power <sup>#</sup> (mW) | Distance (mm) | Calculated value | Threshold (1-g SAR) | SAR Test Exclusion |
|------|-----------------|--|---|---------------|------------------|---------------------|--------------------|
| DTS  | 904.6-923.3     | 8.5  | 7.08  | 5             | 1.4              | 3.0                 | Yes                |

**Result: Compliant**

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## FCC §15.203 - ANTENNA REQUIREMENT

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### Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### Antenna Connector Construction

The EUT has an external antenna with unique antenna connector, and the maximum antenna gain<sup>#</sup> is 1.34dBi, fulfill the requirement of this section. Please refer to the EUT photos.

**Result:** Compliant.

## FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC§15.207

### EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

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

| Frequency Range  | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz  |

### Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

## Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

## Test Data

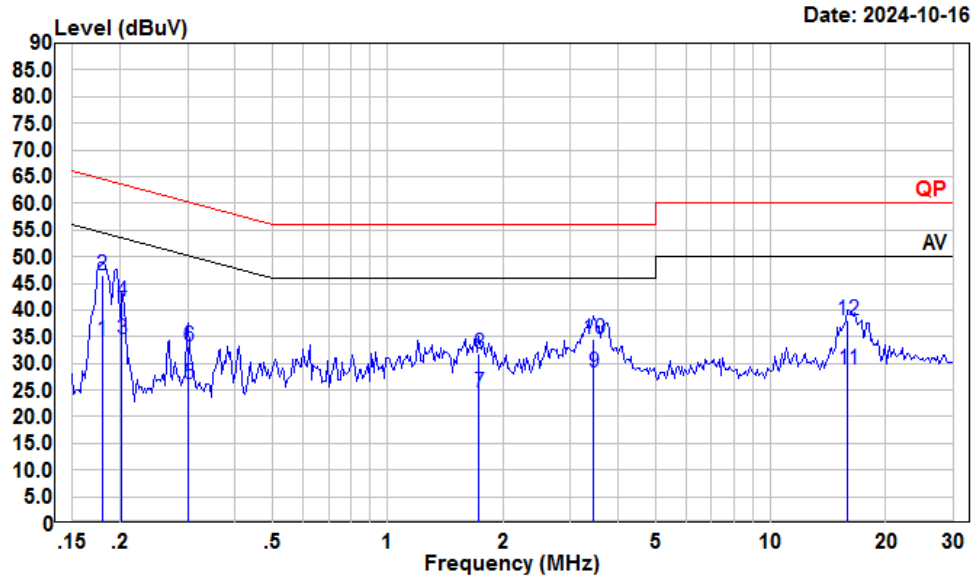
### Environmental Conditions

|                    |         |
|--------------------|---------|
| Temperature:       | 25 °C   |
| Relative Humidity: | 60 %    |
| ATM Pressure:      | 101 kPa |

*The testing was performed by Macy Shi on 2024-10-16.*

*EUT operation mode: Transmitting (Maximum output power mode, Low Channel)*

## AC 120V/60 Hz, Line



Condition: Line

Project : 2401W20143E-RF

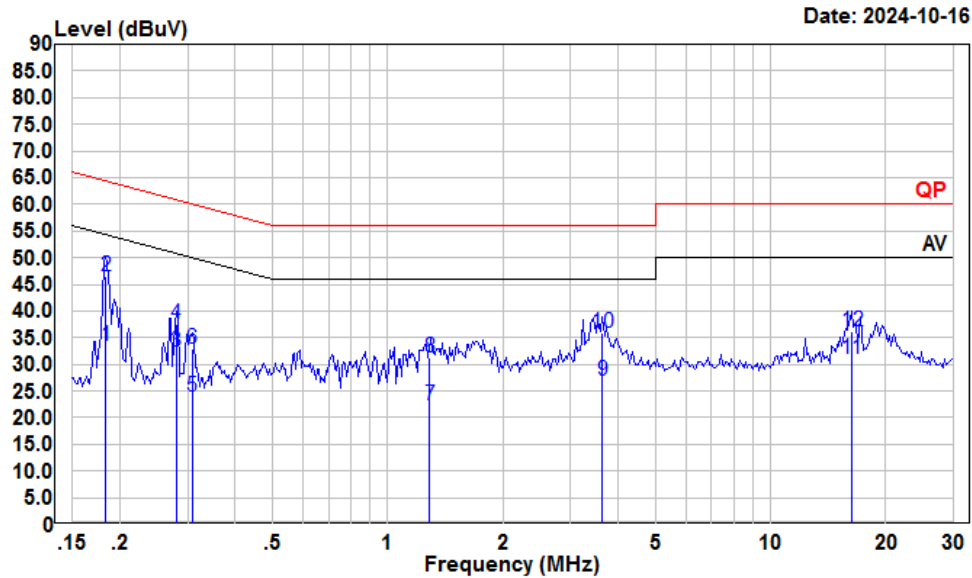
tester : Macy.shi

Note : Transmitting

|    | Freq   | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|----|--------|------------|------------|-------------|------------|------------|------------|---------|
|    | MHz    | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1  | 0.180  | 13.87      | 34.37      | 10.40       | 10.10      | 54.50      | -20.13     | Average |
| 2  | 0.180  | 26.01      | 46.51      | 10.40       | 10.10      | 64.50      | -17.99     | QP      |
| 3  | 0.202  | 13.95      | 34.44      | 10.40       | 10.09      | 53.54      | -19.10     | Average |
| 4  | 0.202  | 21.05      | 41.54      | 10.40       | 10.09      | 63.54      | -22.00     | QP      |
| 5  | 0.302  | 5.77       | 26.19      | 10.31       | 10.11      | 50.19      | -24.00     | Average |
| 6  | 0.302  | 12.84      | 33.26      | 10.31       | 10.11      | 60.19      | -26.93     | QP      |
| 7  | 1.734  | 3.95       | 24.48      | 10.36       | 10.17      | 46.00      | -21.52     | Average |
| 8  | 1.734  | 11.18      | 31.71      | 10.36       | 10.17      | 56.00      | -24.29     | QP      |
| 9  | 3.454  | 7.67       | 28.24      | 10.38       | 10.19      | 46.00      | -17.76     | Average |
| 10 | 3.454  | 13.91      | 34.48      | 10.38       | 10.19      | 56.00      | -21.52     | QP      |
| 11 | 15.885 | 8.20       | 28.79      | 10.38       | 10.21      | 50.00      | -21.21     | Average |
| 12 | 15.885 | 17.62      | 38.21      | 10.38       | 10.21      | 60.00      | -21.79     | QP      |



## AC 120V/60 Hz, Neutral



Condition: Neutral

Project : 2401W20143E-RF

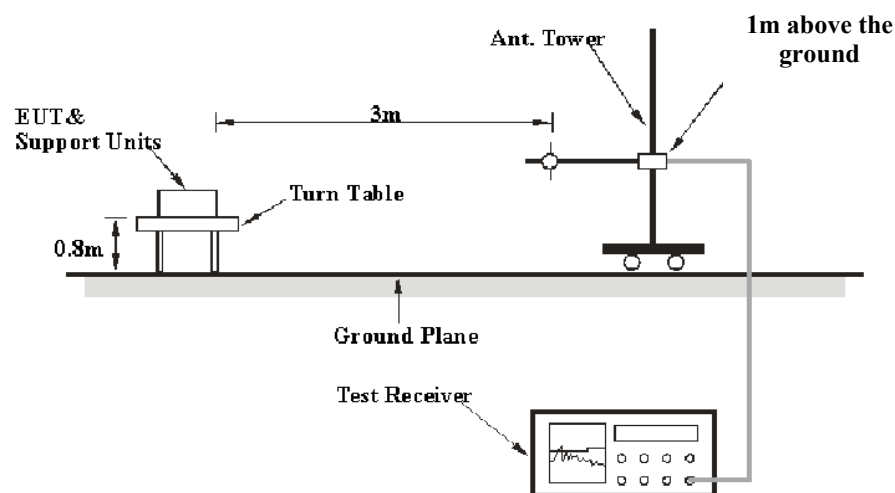
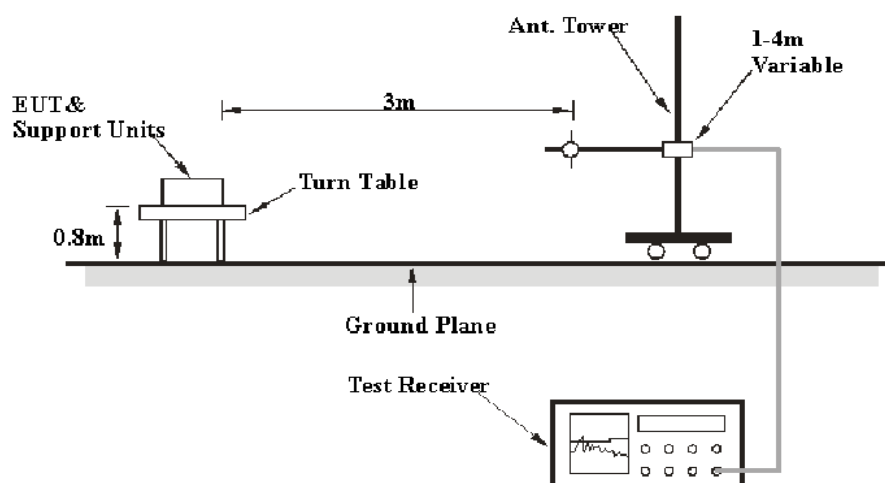
tester : Macy.shi

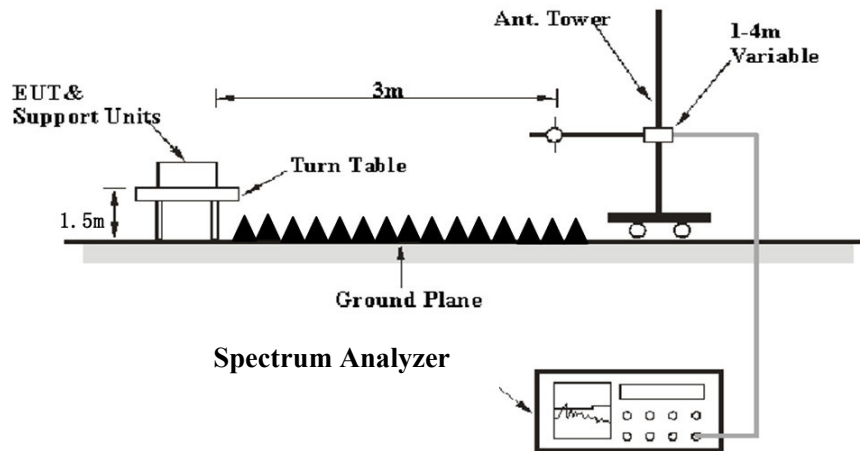
Note : Transmitting

|    | Freq   | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|----|--------|------------|------------|-------------|------------|------------|------------|---------|
|    | MHz    | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1  | 0.183  | 12.90      | 33.48      | 10.48       | 10.10      | 54.33      | -20.85     | Average |
| 2  | 0.183  | 25.96      | 46.54      | 10.48       | 10.10      | 64.33      | -17.79     | QP      |
| 3  | 0.280  | 11.70      | 32.47      | 10.67       | 10.10      | 50.81      | -18.34     | Average |
| 4  | 0.280  | 16.80      | 37.57      | 10.67       | 10.10      | 60.81      | -23.24     | QP      |
| 5  | 0.308  | 3.02       | 23.82      | 10.69       | 10.11      | 50.02      | -26.20     | Average |
| 6  | 0.308  | 12.17      | 32.97      | 10.69       | 10.11      | 60.02      | -27.05     | QP      |
| 7  | 1.289  | 2.04       | 22.42      | 10.23       | 10.15      | 46.00      | -23.58     | Average |
| 8  | 1.289  | 10.90      | 31.28      | 10.23       | 10.15      | 56.00      | -24.72     | QP      |
| 9  | 3.642  | 6.49       | 27.05      | 10.36       | 10.20      | 46.00      | -18.95     | Average |
| 10 | 3.642  | 15.46      | 36.02      | 10.36       | 10.20      | 56.00      | -19.98     | QP      |
| 11 | 16.226 | 10.41      | 30.97      | 10.35       | 10.21      | 50.00      | -19.03     | Average |
| 12 | 16.226 | 15.48      | 36.04      | 10.35       | 10.21      | 60.00      | -23.96     | QP      |

**FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS****Applicable Standard**

FCC §15.247 (d); §15.209; §15.205;

**EUT Setup****9 kHz-30MHz:****30MHz-1GHz:**

**Above 1GHz:**

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

**EMI Test Receiver & Spectrum Analyzer Setup**

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

| Frequency Range   | RBW     | Video B/W               | IF B/W  | Measurement |
|-------------------|---------|-------------------------|---------|-------------|
| 30 MHz – 1000 MHz | 100 kHz | 300 kHz                 | 120 kHz | QP          |
| Above 1 GHz       | 1MHz    | 3 MHz                   | /       | PK          |
|                   | 1MHz    | 10 Hz <sup>Note 1</sup> | /       | Average     |
|                   | 1MHz    | > 1/T <sup>Note 2</sup> | /       | Average     |

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

**Test Procedure**

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

For 9 kHz-30MHz, if the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

All emissions under the average limit and under the noise floor have not recorded in the report.

### Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit/Margin} &= \text{Level/Corrected Amplitude} - \text{Limit} \\ \text{Level / Corrected Amplitude} &= \text{Read Level} + \text{Factor}\end{aligned}$$

### Test Data

#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 22~25.4 °C |
| Relative Humidity: | 54~56 %    |
| ATM Pressure:      | 101.0 kPa  |

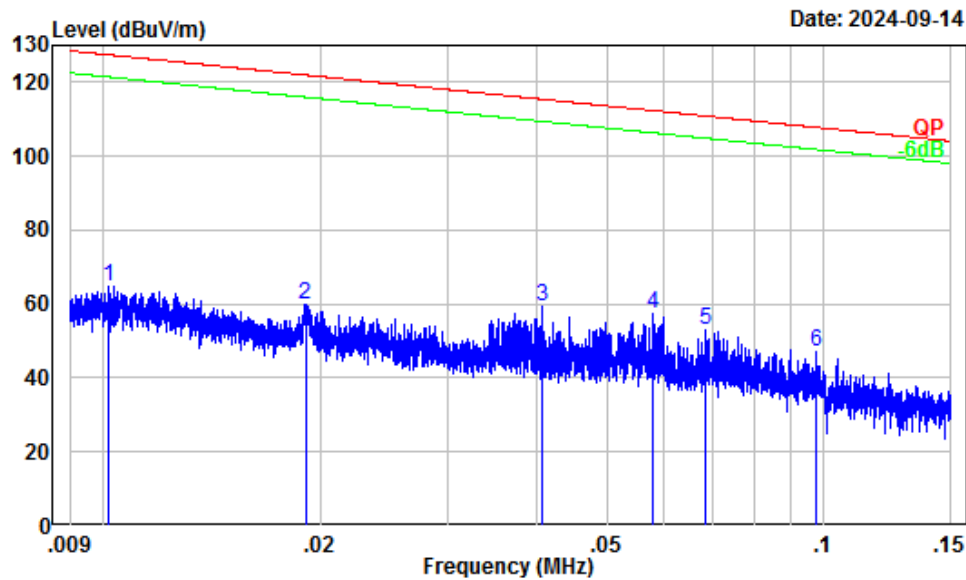
*The testing was performed by Anson Su from 2024-09-14 to 2024-10-23 for below 1GHz and Dylan Yang on 2024-11-04 for above 1GHz.*

*EUT operation mode: Transmitting*

*Note: Pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation was recorded.*

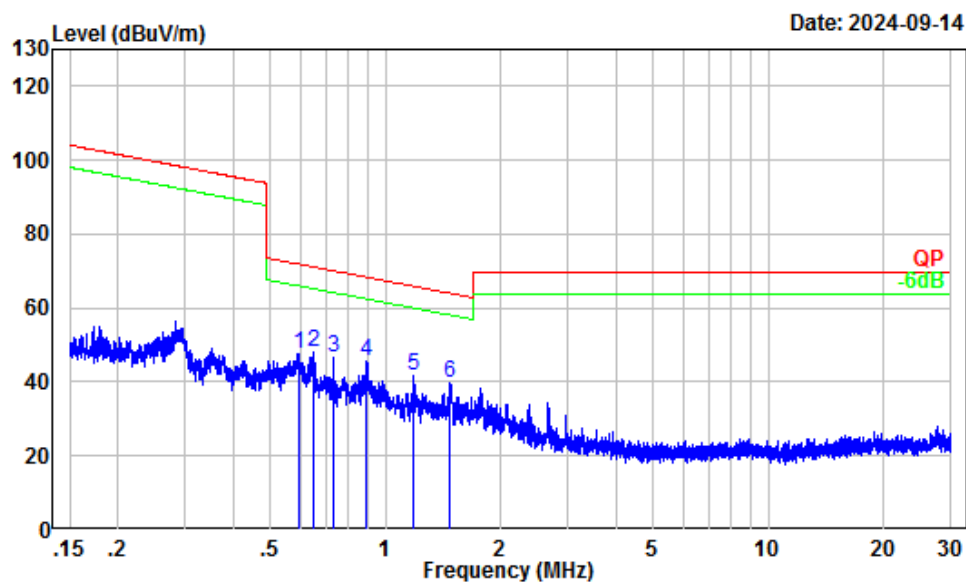
9 kHz-30 MHz: *Parallel (worst case)*

904.6MHz:



Site : Chamber A  
Condition : 3m  
Project Number: 2401W20143E-RF  
Test Mode : Transmitting  
Tester : Anson Su

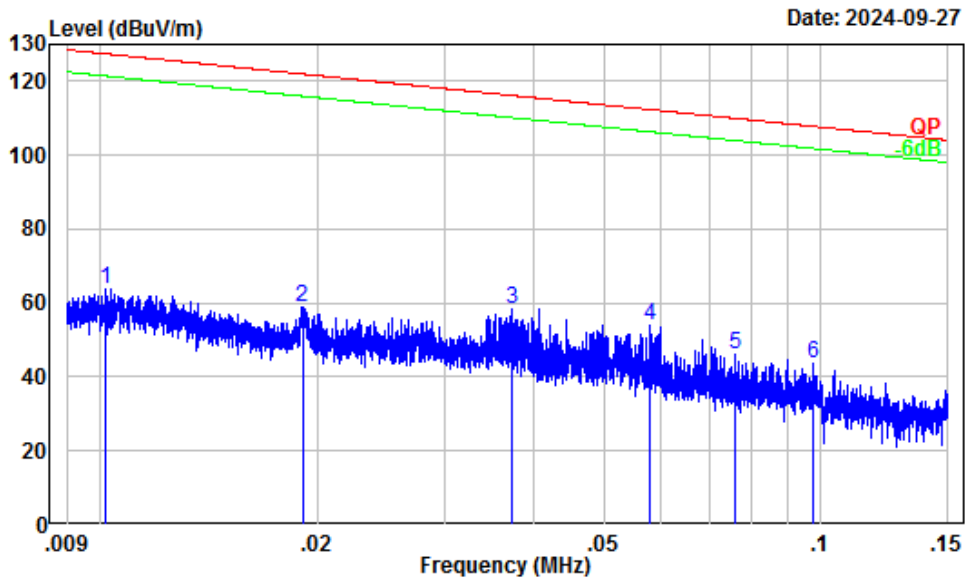
|   | Freq | Factor | Read Level | Level  | Limit  | Over Limit | Remark |
|---|------|--------|------------|--------|--------|------------|--------|
|   | MHz  | dB/m   | dBuV       | dBuV/m | dBuV/m | dB         |        |
| 1 | 0.01 | 37.60  | 27.38      | 64.98  | 127.45 | -62.47     | Peak   |
| 2 | 0.02 | 33.05  | 26.73      | 59.78  | 121.99 | -62.21     | Peak   |
| 3 | 0.04 | 25.13  | 34.17      | 59.30  | 115.42 | -56.12     | Peak   |
| 4 | 0.06 | 22.01  | 35.14      | 57.15  | 112.35 | -55.20     | Peak   |
| 5 | 0.07 | 20.58  | 32.61      | 53.19  | 110.89 | -57.70     | Peak   |
| 6 | 0.10 | 17.32  | 29.54      | 46.86  | 107.84 | -60.98     | Peak   |



Site : Chamber A  
 Condition : 3m  
 Project Number: 2401W20143E-RF  
 Test Mode : Transmitting  
 Tester : Anson Su

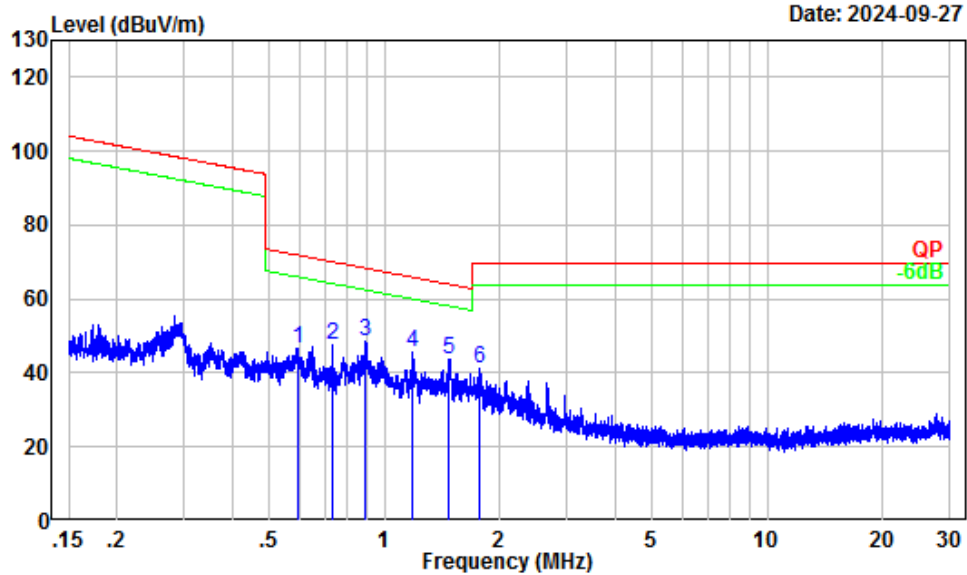
|   | Freq | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|------|--------|------------|--------|------------|------------|--------|
|   | MHz  | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 0.59 | 2.37   | 45.36      | 47.73  | 72.11      | -24.38     | Peak   |
| 2 | 0.65 | 1.67   | 46.41      | 48.08  | 71.28      | -23.20     | Peak   |
| 3 | 0.73 | 0.68   | 45.92      | 46.60  | 70.21      | -23.61     | Peak   |
| 4 | 0.89 | -0.77  | 46.29      | 45.52  | 68.52      | -23.00     | Peak   |
| 5 | 1.19 | -2.23  | 44.03      | 41.80  | 65.97      | -24.17     | Peak   |
| 6 | 1.48 | -3.26  | 42.98      | 39.72  | 64.00      | -24.28     | Peak   |

911MHz:



Site : Chamber A  
 Condition : 3m  
 Project Number: 2401W20143E-RF  
 Test Mode : Transmitting  
 Tester : Anson Su

|   | Freq | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|------|--------|------------|--------|------------|------------|--------|
|   | MHz  | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 0.01 | 37.60  | 26.38      | 63.98  | 127.45     | -63.47     | Peak   |
| 2 | 0.02 | 33.05  | 25.73      | 58.78  | 121.99     | -63.21     | Peak   |
| 3 | 0.04 | 25.90  | 32.37      | 58.27  | 116.20     | -57.93     | Peak   |
| 4 | 0.06 | 22.01  | 32.14      | 54.15  | 112.35     | -58.20     | Peak   |
| 5 | 0.08 | 19.56  | 26.63      | 46.19  | 109.98     | -63.79     | Peak   |
| 6 | 0.10 | 17.32  | 26.54      | 43.86  | 107.84     | -63.98     | Peak   |

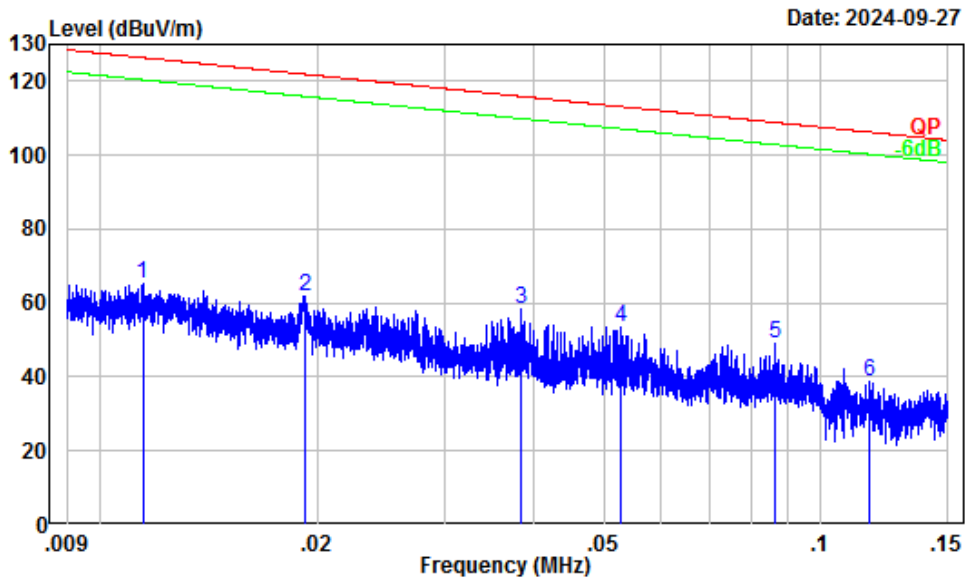


Site : Chamber A  
 Condition : 3m  
 Project Number: 2401W20143E-RF  
 Test Mode : Transmitting  
 Tester : Anson Su

|   | Freq | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|------|--------|------------|--------|------------|------------|--------|
|   | MHz  | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 0.59 | 2.37   | 44.36      | 46.73  | 72.11      | -25.38     | Peak   |
| 2 | 0.73 | 0.68   | 46.92      | 47.60  | 70.21      | -22.61     | Peak   |
| 3 | 0.89 | -0.77  | 49.29      | 48.52  | 68.52      | -20.00     | Peak   |
| 4 | 1.19 | -2.23  | 48.03      | 45.80  | 65.97      | -20.17     | Peak   |
| 5 | 1.48 | -3.26  | 46.98      | 43.72  | 64.00      | -20.28     | Peak   |
| 6 | 1.78 | -4.30  | 45.57      | 41.27  | 69.54      | -28.27     | Peak   |

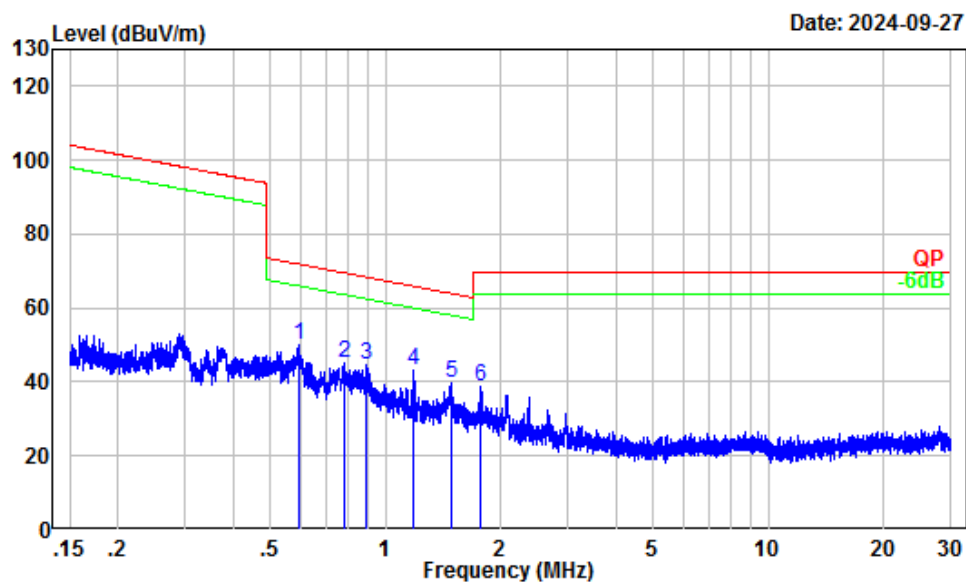


923.3MHz:



Site : Chamber A  
 Condition : 3m  
 Project Number: 2401W20143E-RF  
 Test Mode : Transmitting  
 Tester : Anson Su

|   | Freq | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|------|--------|------------|--------|------------|------------|--------|
|   | MHz  | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 0.01 | 36.94  | 28.25      | 65.19  | 126.42     | -61.23     | Peak   |
| 2 | 0.02 | 32.98  | 29.02      | 62.00  | 121.92     | -59.92     | Peak   |
| 3 | 0.04 | 25.63  | 32.59      | 58.22  | 115.92     | -57.70     | Peak   |
| 4 | 0.05 | 22.68  | 30.92      | 53.60  | 113.13     | -59.53     | Peak   |
| 5 | 0.09 | 18.40  | 30.89      | 49.29  | 108.88     | -59.59     | Peak   |
| 6 | 0.12 | 16.26  | 22.65      | 38.91  | 106.25     | -67.34     | Peak   |



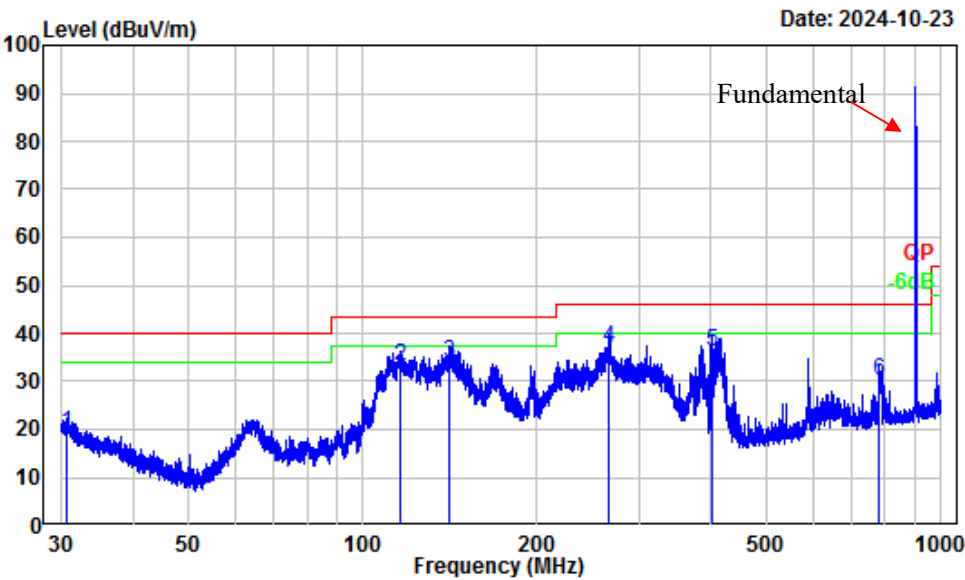
Site : Chamber A  
 Condition : 3m  
 Project Number: 2401W20143E-RF  
 Test Mode : Transmitting  
 Tester : Anson Su

|   | Freq | Factor | Read Level | Level  | Limit  | Over Limit | Remark |
|---|------|--------|------------|--------|--------|------------|--------|
|   | MHz  | dB/m   | dBuV       | dBuV/m | dBuV/m | dB         |        |
| 1 | 0.59 | 2.37   | 47.91      | 50.28  | 72.11  | -21.83     | Peak   |
| 2 | 0.78 | 0.11   | 45.05      | 45.16  | 69.65  | -24.49     | Peak   |
| 3 | 0.89 | -0.77  | 45.60      | 44.83  | 68.52  | -23.69     | Peak   |
| 4 | 1.19 | -2.23  | 45.37      | 43.14  | 65.97  | -22.83     | Peak   |
| 5 | 1.48 | -3.27  | 43.07      | 39.80  | 63.98  | -24.18     | Peak   |
| 6 | 1.78 | -4.30  | 43.09      | 38.79  | 69.54  | -30.75     | Peak   |

30 MHz~1 GHz:

904.6MHz:

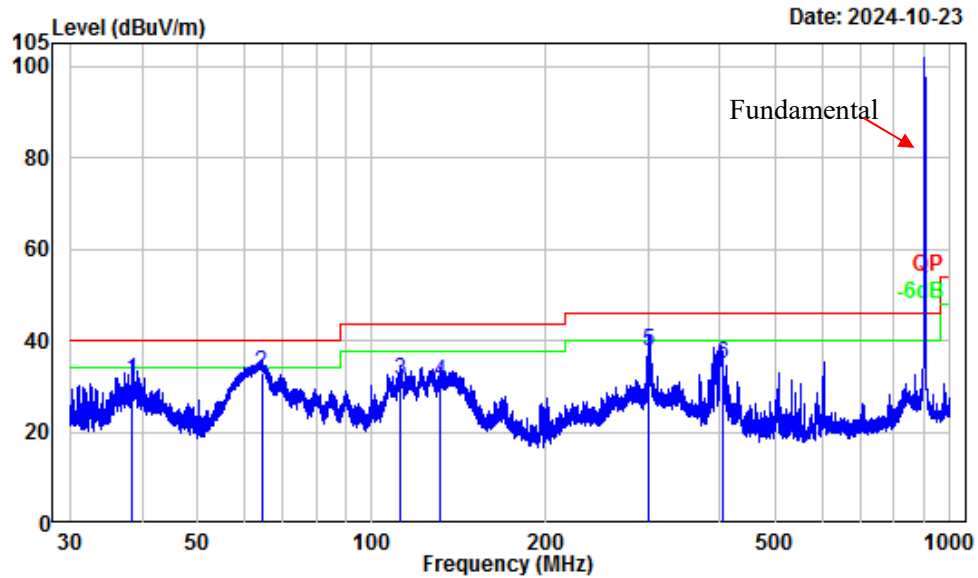
Horizontal



Site : Chamber A  
Condition : 3m Horizontal  
Project Number: 2401W20143E-RF  
Test Mode : Transmitting  
Tester : Anson Su

|   | Read   |        | Limit |        | Over   |        | Remark |
|---|--------|--------|-------|--------|--------|--------|--------|
|   | Freq   | Factor | Level | Level  | Line   | Limit  |        |
|   | MHz    | dB/m   | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 | 30.80  | -6.88  | 26.20 | 19.32  | 40.00  | -20.68 | QP     |
| 2 | 116.23 | -13.03 | 46.19 | 33.16  | 43.50  | -10.34 | QP     |
| 3 | 141.45 | -13.09 | 47.13 | 34.04  | 43.50  | -9.46  | QP     |
| 4 | 265.79 | -13.88 | 50.76 | 36.88  | 46.00  | -9.12  | QP     |
| 5 | 402.37 | -10.85 | 47.26 | 36.41  | 46.00  | -9.59  | QP     |
| 6 | 780.63 | -5.24  | 35.59 | 30.35  | 46.00  | -15.65 | QP     |

## Vertical

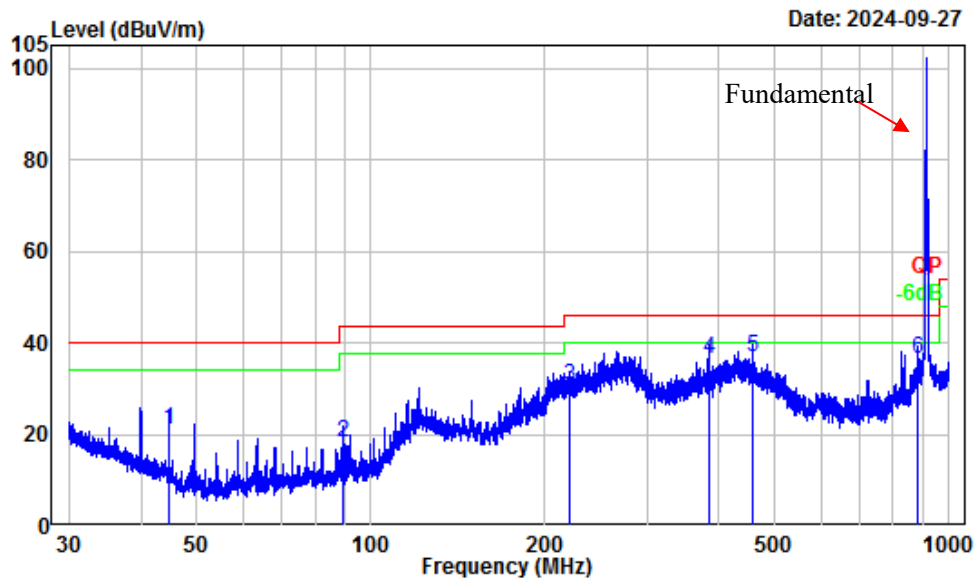


Site : Chamber A  
Condition : 3m Vertical  
Project Number: 2401W20143E-RF  
Test Mode : Transmitting  
Tester : Anson Su

|   | Freq   | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|--------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz    | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 38.57  | -12.19 | 43.31         | 31.12  | 40.00         | -8.88         | QP     |
| 2 | 64.40  | -18.72 | 51.80         | 33.08  | 40.00         | -6.92         | QP     |
| 3 | 111.59 | -13.79 | 45.26         | 31.47  | 43.50         | -12.03        | QP     |
| 4 | 131.01 | -12.49 | 43.30         | 30.81  | 43.50         | -12.69        | QP     |
| 5 | 300.76 | -12.91 | 50.62         | 37.71  | 46.00         | -8.29         | QP     |
| 6 | 403.60 | -10.81 | 45.57         | 34.76  | 46.00         | -11.24        | QP     |

911MHz:

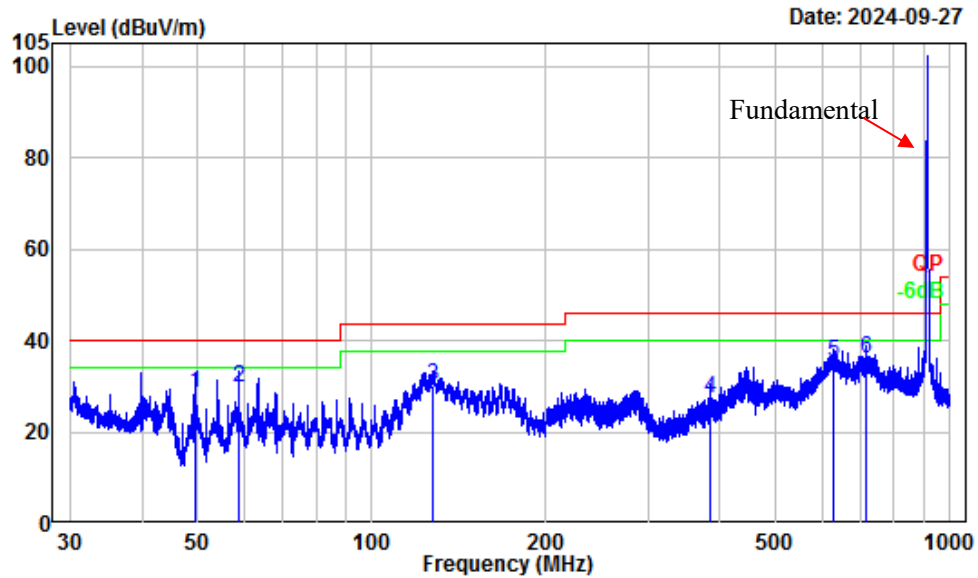
Horizontal



Site : Chamber A  
 Condition : 3m Horizontal  
 Project Number: 2401W20143E-RF  
 Test Mode : Transmitting  
 Tester : Anson Su

|   | Freq   | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|--------|--------|------------|--------|------------|------------|--------|
|   | MHz    | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 44.70  | -15.67 | 36.61      | 20.94  | 40.00      | -19.06     | QP     |
| 2 | 89.28  | -18.04 | 36.27      | 18.23  | 43.50      | -25.27     | QP     |
| 3 | 221.00 | -14.17 | 44.86      | 30.69  | 46.00      | -15.31     | QP     |
| 4 | 384.10 | -9.04  | 45.47      | 36.43  | 46.00      | -9.57      | QP     |
| 5 | 457.31 | -7.19  | 43.99      | 36.80  | 46.00      | -9.20      | QP     |
| 6 | 882.57 | -1.46  | 37.75      | 36.29  | 46.00      | -9.71      | QP     |

Vertical

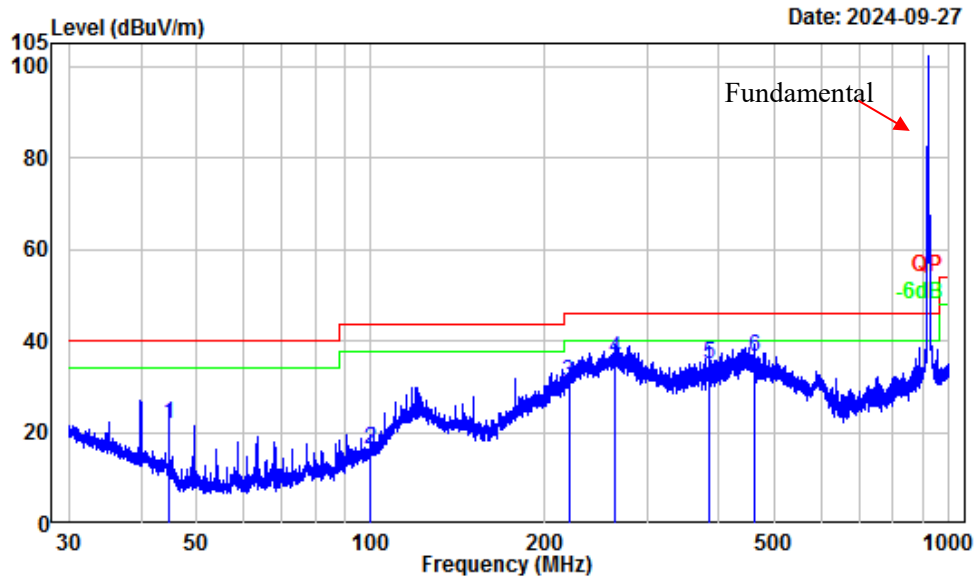


Site : Chamber A  
 Condition : 3m Vertical  
 Project Number: 2401W20143E-RF  
 Test Mode : Transmitting  
 Tester : Anson Su

|   | Freq Factor |        | Read Level |        | Limit Line | Over Limit | Remark |
|---|-------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 49.34       | -17.80 | 46.35      | 28.55  | 40.00      | -11.45     | QP     |
| 2 | 58.79       | -18.22 | 47.92      | 29.70  | 40.00      | -10.30     | QP     |
| 3 | 127.05      | -11.12 | 41.34      | 30.22  | 43.50      | -13.28     | QP     |
| 4 | 384.27      | -9.03  | 36.42      | 27.39  | 46.00      | -18.61     | QP     |
| 5 | 630.31      | -4.54  | 39.87      | 35.33  | 46.00      | -10.67     | QP     |
| 6 | 716.37      | -3.28  | 39.16      | 35.88  | 46.00      | -10.12     | QP     |

923.3MHz:

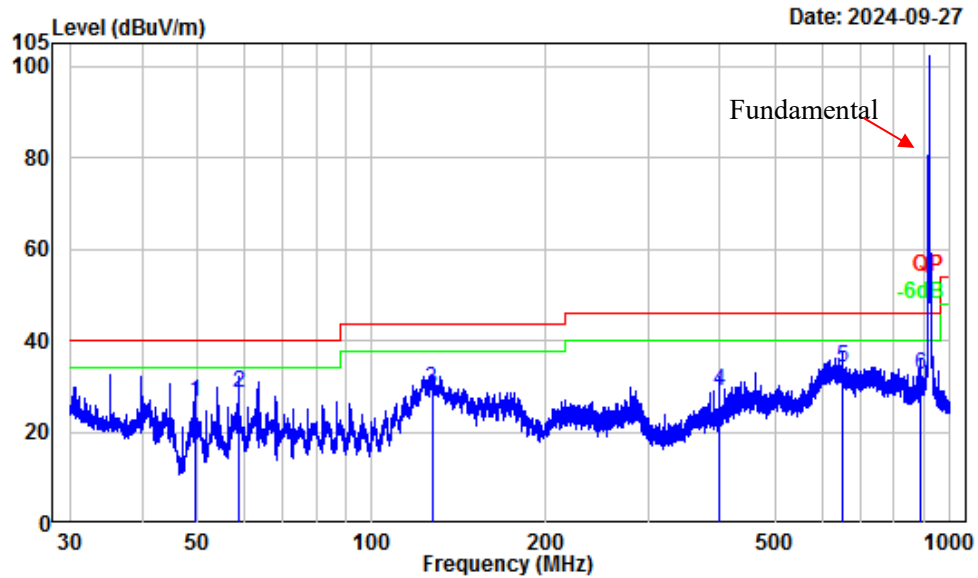
Horizontal



Site : Chamber A  
 Condition : 3m Horizontal  
 Project Number: 2401W20143E-RF  
 Test Mode : Transmitting  
 Tester : Anson Su

|   | Freq Factor |        | Read Level |        | Limit Line | Over Limit | Remark |
|---|-------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 44.68       | -15.66 | 37.55      | 21.89  | 40.00      | -18.11     | QP     |
| 2 | 99.79       | -15.95 | 32.02      | 16.07  | 43.50      | -27.43     | QP     |
| 3 | 219.84      | -14.20 | 45.28      | 31.08  | 46.00      | -14.92     | QP     |
| 4 | 263.47      | -12.41 | 48.63      | 36.22  | 46.00      | -9.78      | QP     |
| 5 | 383.60      | -9.05  | 44.00      | 34.95  | 46.00      | -11.05     | QP     |
| 6 | 461.54      | -7.06  | 43.61      | 36.55  | 46.00      | -9.45      | QP     |

## Vertical



Site : Chamber A  
Condition : 3m Vertical  
Project Number: 2401W20143E-RF  
Test Mode : Transmitting  
Tester : Anson Su

|   | Freq Factor |        | Read  |        | Limit  | Over   | Remark |
|---|-------------|--------|-------|--------|--------|--------|--------|
|   | MHz         | dB/m   | Level | Level  | Line   | Limit  |        |
|   | MHz         | dB/m   | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 | 49.45       | -17.81 | 44.52 | 26.71  | 40.00  | -13.29 | QP     |
| 2 | 58.79       | -18.22 | 46.89 | 28.67  | 40.00  | -11.33 | QP     |
| 3 | 126.99      | -11.12 | 40.53 | 29.41  | 43.50  | -14.09 | QP     |
| 4 | 400.08      | -8.41  | 37.53 | 29.12  | 46.00  | -16.88 | QP     |
| 5 | 651.94      | -4.08  | 38.34 | 34.26  | 46.00  | -11.74 | QP     |
| 6 | 891.51      | -1.38  | 33.89 | 32.51  | 46.00  | -13.49 | QP     |



**Above 1 GHz:**

| Frequency<br>(MHz)    | Receiver          |        | Polar<br>(H/V) | Factor<br>(dB/m) | Absolute<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|-----------------------|-------------------|--------|----------------|------------------|-------------------------------|-------------------|----------------|
|                       | Reading<br>(dBμV) | PK/Ave |                |                  |                               |                   |                |
| Low Channel 904.6MHz  |                   |        |                |                  |                               |                   |                |
| 2713.80               | 47.23             | PK     | H              | -2.49            | 44.74                         | 74                | -29.26         |
| 2713.80               | 39.48             | AV     | H              | -2.49            | 36.99                         | 54                | -17.01         |
| 2713.80               | 47.27             | PK     | V              | -2.49            | 44.78                         | 74                | -29.22         |
| 2713.80               | 40.31             | AV     | V              | -2.49            | 37.82                         | 54                | -16.18         |
| 3618.40               | 46.15             | PK     | H              | -1.94            | 44.21                         | 74                | -29.79         |
| 3618.40               | 33.45             | AV     | H              | -1.94            | 31.51                         | 54                | -22.49         |
| 3618.40               | 46.57             | PK     | V              | -1.94            | 44.63                         | 74                | -29.37         |
| 3618.40               | 34.14             | AV     | V              | -1.94            | 32.20                         | 54                | -21.80         |
| 4523.00               | 50.63             | PK     | H              | 1.19             | 51.82                         | 74                | -22.18         |
| 4523.00               | 45.48             | AV     | H              | 1.19             | 46.67                         | 54                | -7.33          |
| 4523.00               | 51.25             | PK     | V              | 1.19             | 52.44                         | 74                | -21.56         |
| 4523.00               | 46.02             | AV     | V              | 1.19             | 47.21                         | 54                | -6.79          |
| Middle Channel 911MHz |                   |        |                |                  |                               |                   |                |
| 2733.00               | 48.22             | PK     | H              | -2.49            | 45.73                         | 74                | -28.27         |
| 2733.00               | 40.22             | AV     | H              | -2.49            | 37.73                         | 54                | -16.27         |
| 2733.00               | 48.06             | PK     | V              | -2.49            | 45.57                         | 74                | -28.43         |
| 2733.00               | 40.75             | AV     | V              | -2.49            | 38.26                         | 54                | -15.74         |
| 3644.00               | 46.25             | PK     | H              | -1.94            | 44.31                         | 74                | -29.69         |
| 3644.00               | 34.37             | AV     | H              | -1.94            | 32.43                         | 54                | -21.57         |
| 3644.00               | 47.42             | PK     | V              | -1.94            | 45.48                         | 74                | -28.52         |
| 3644.00               | 35.07             | AV     | V              | -1.94            | 33.13                         | 54                | -20.87         |
| 4555.00               | 51.51             | PK     | H              | 1.29             | 52.80                         | 74                | -21.20         |
| 4555.00               | 45.51             | AV     | H              | 1.29             | 46.80                         | 54                | -7.20          |
| 4555.00               | 51.56             | PK     | V              | 1.29             | 52.85                         | 74                | -21.15         |
| 4555.00               | 46.24             | AV     | V              | 1.29             | 47.53                         | 54                | -6.47          |

| Frequency<br>(MHz)    | Receiver          |        | Polar<br>(H/V) | Factor<br>(dB/m) | Absolute<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|-----------------------|-------------------|--------|----------------|------------------|-------------------------------|-------------------|----------------|
|                       | Reading<br>(dBμV) | PK/Ave |                |                  |                               |                   |                |
| High Channel 923.3MHz |                   |        |                |                  |                               |                   |                |
| 2769.90               | 45.21             | PK     | H              | -2.82            | 42.39                         | 74                | -31.61         |
| 2769.90               | 32.12             | AV     | H              | -2.82            | 29.30                         | 54                | -24.70         |
| 2769.90               | 45.08             | PK     | V              | -2.82            | 42.26                         | 74                | -31.74         |
| 2769.90               | 31.63             | AV     | V              | -2.82            | 28.81                         | 54                | -25.19         |
| 3693.20               | 47.01             | PK     | H              | -1.19            | 45.82                         | 74                | -28.18         |
| 3693.20               | 39.68             | AV     | H              | -1.19            | 38.49                         | 54                | -15.51         |
| 3693.20               | 45.33             | PK     | V              | -1.19            | 44.14                         | 74                | -29.86         |
| 3693.20               | 36.18             | AV     | V              | -1.19            | 34.99                         | 54                | -19.01         |
| 4616.50               | 48.63             | PK     | H              | 1.52             | 50.15                         | 74                | -23.85         |
| 4616.50               | 43.55             | AV     | H              | 1.52             | 45.07                         | 54                | -8.93          |
| 4616.50               | 50.38             | PK     | V              | 1.52             | 51.90                         | 74                | -22.10         |
| 4616.50               | 46.33             | AV     | V              | 1.52             | 47.85                         | 54                | -6.15          |

**Note:**

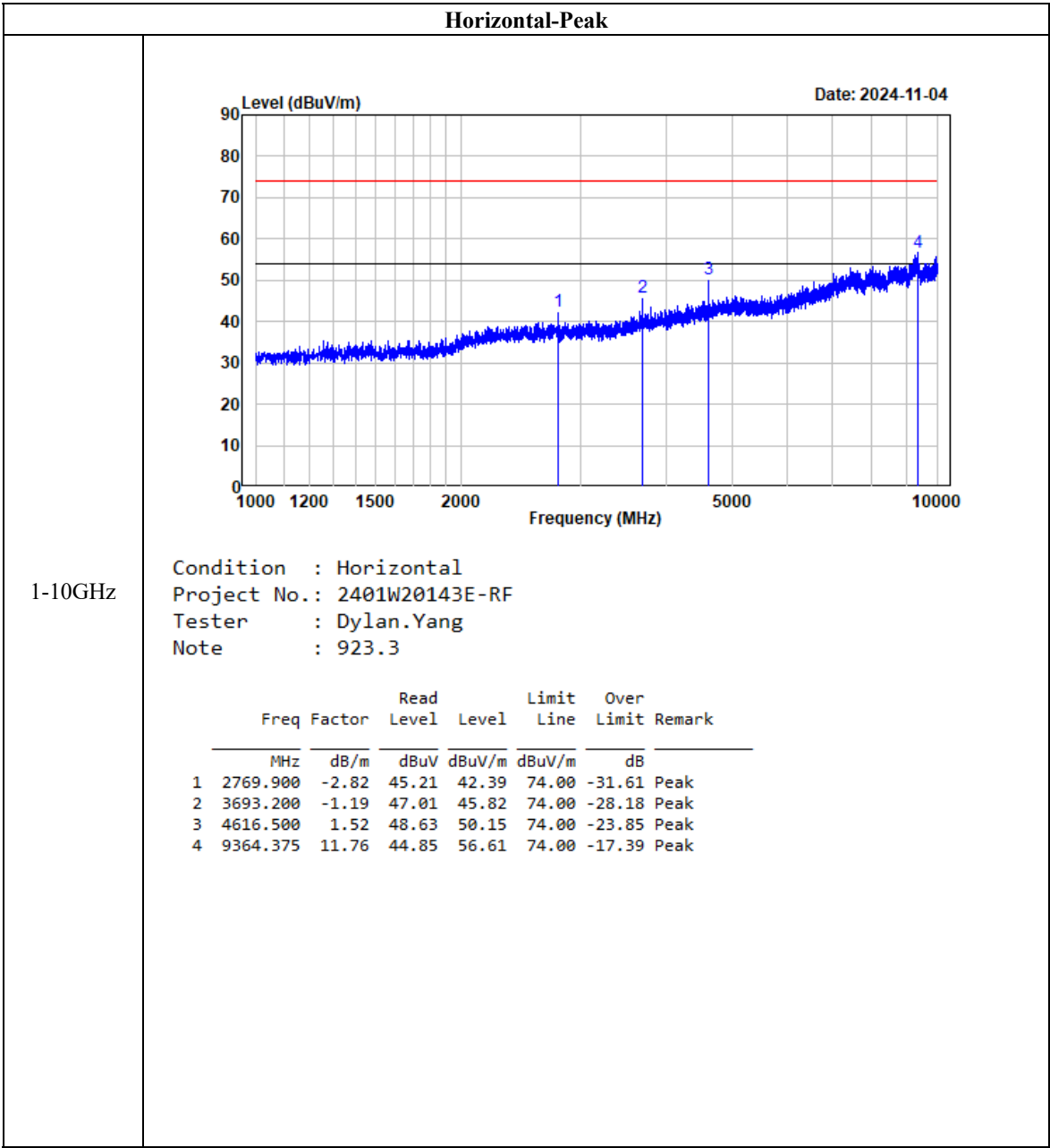
Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

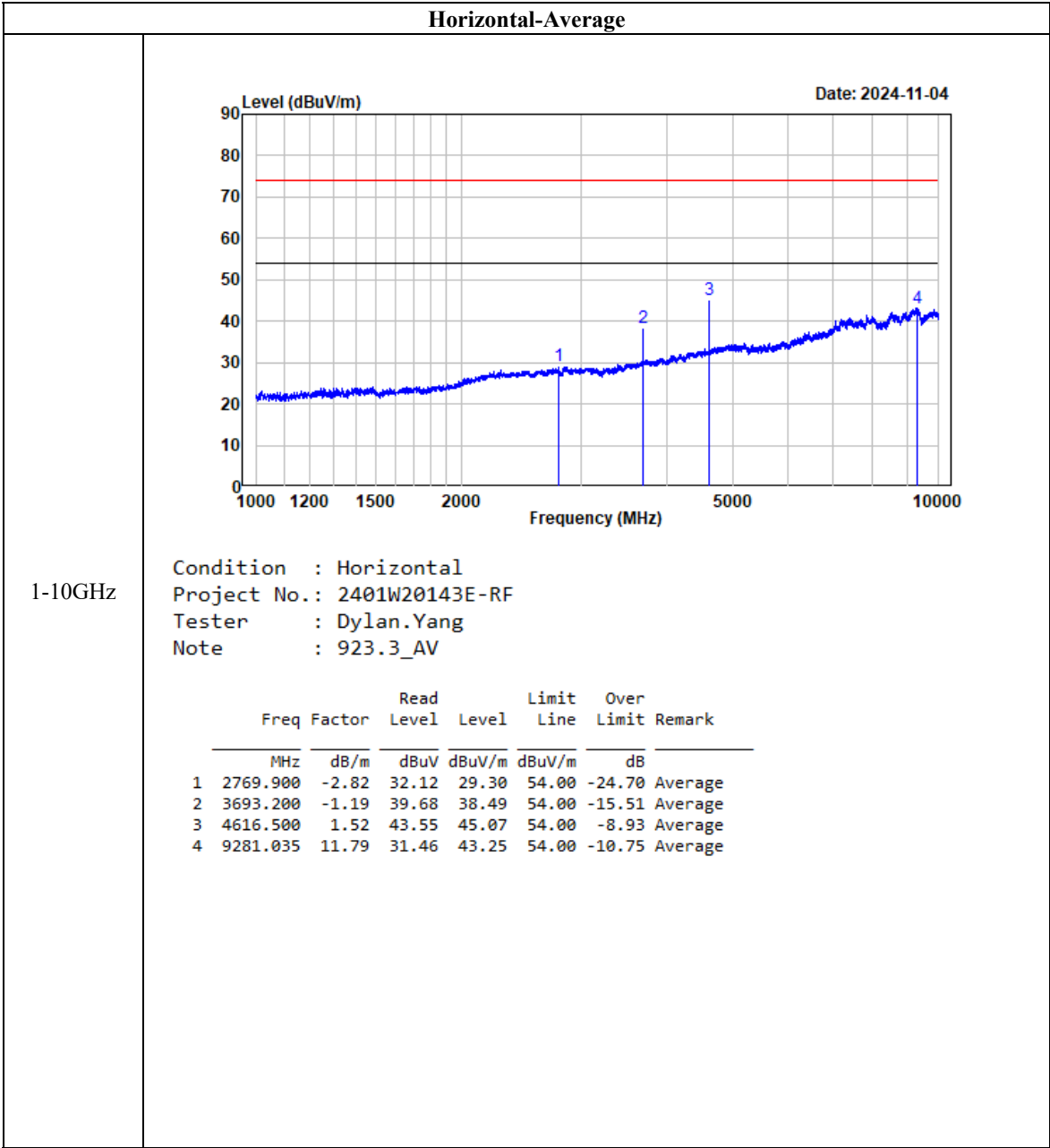
Corrected Amplitude/Level = Corrected Factor + Reading

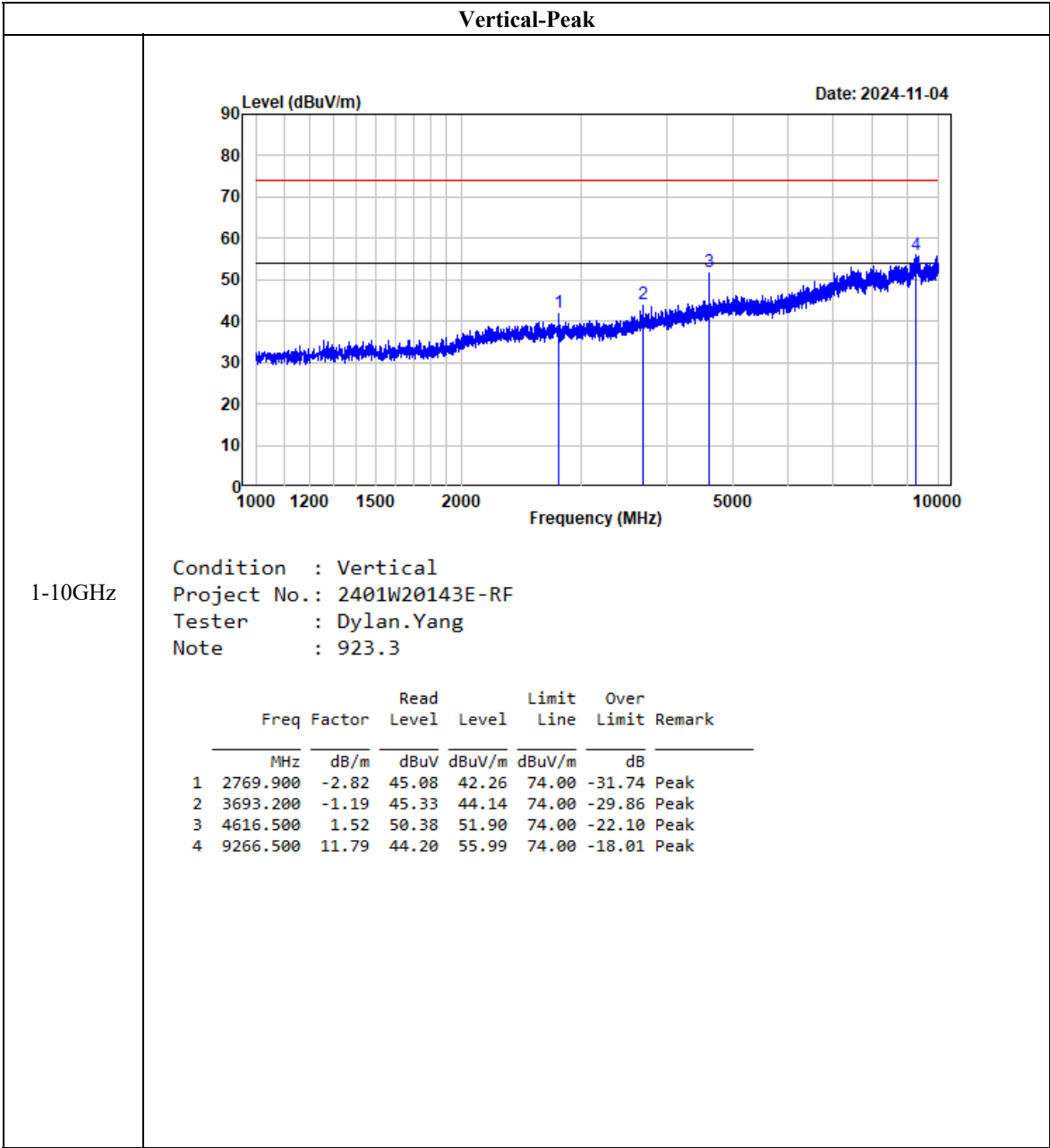
Margin = Corrected Amplitude/Level - Limit

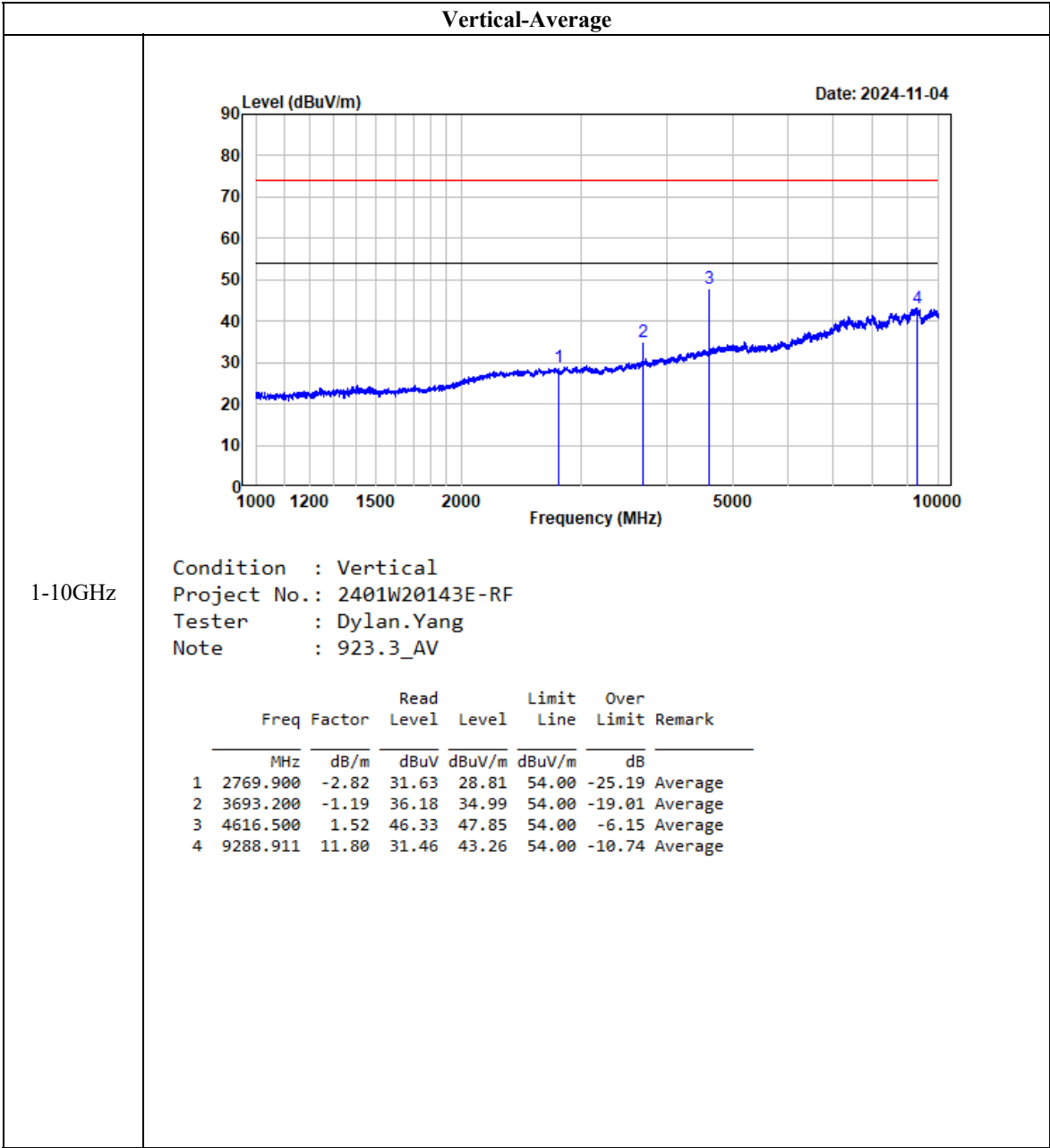
The other spurious emission which is in the noise floor level was not recorded.

Listed with the worst harmonic margin test plot:









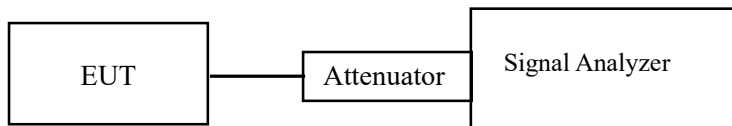
## FCC §15.247(a) (2) - 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

### Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



### Test Data

#### Environmental Conditions

|                    |         |
|--------------------|---------|
| Temperature:       | 25.7 °C |
| Relative Humidity: | 55 %    |
| ATM Pressure:      | 101 kPa |

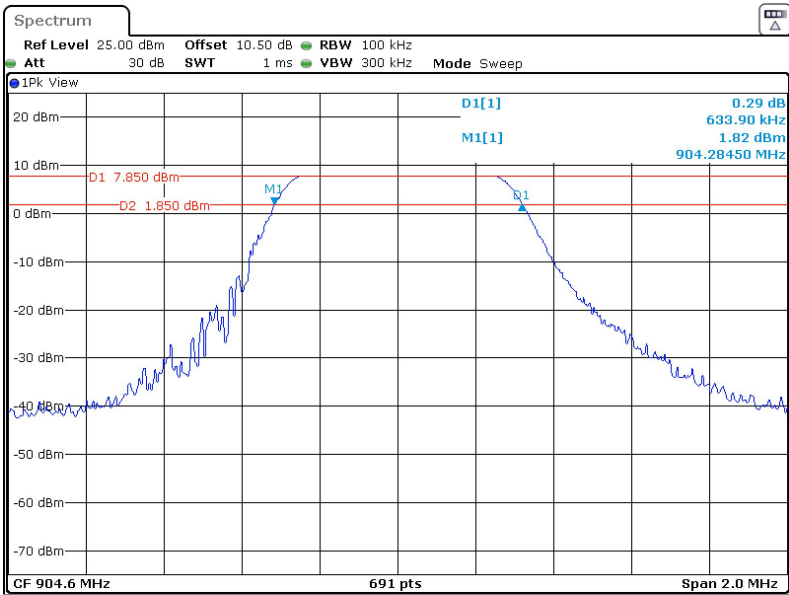
*The testing was performed by Brian Li on 2024-10-16.*

*EUT operation mode: Transmitting*

Test Result: Compliant. Please refer to the following table and plots.

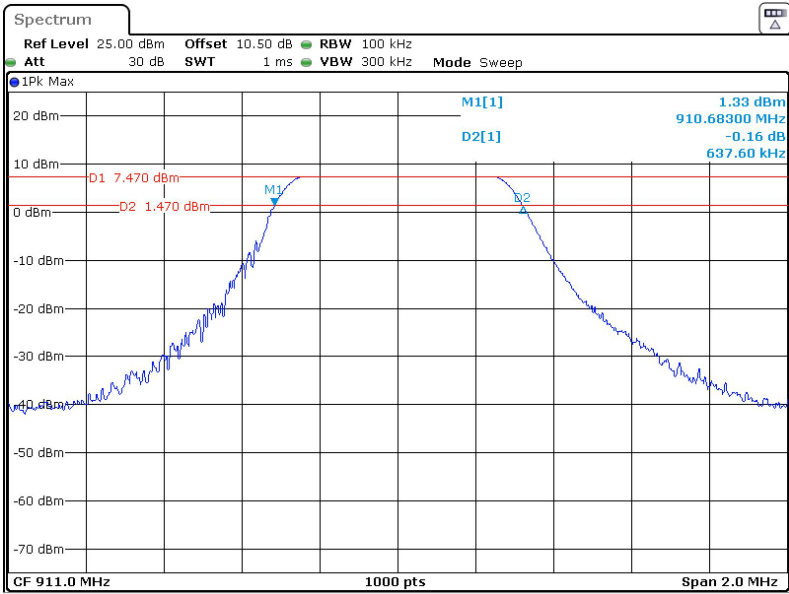
| Test Channel | Test Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) |
|--------------|----------------------|----------------------|-------------|
| Low          | 904.6                | 0.634                | ≥0.5        |
| Middle       | 911                  | 0.638                | ≥0.5        |
| High         | 923.3                | 0.631                | ≥0.5        |

Low Channel



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Date: 16.OCT.2024 19:49:13

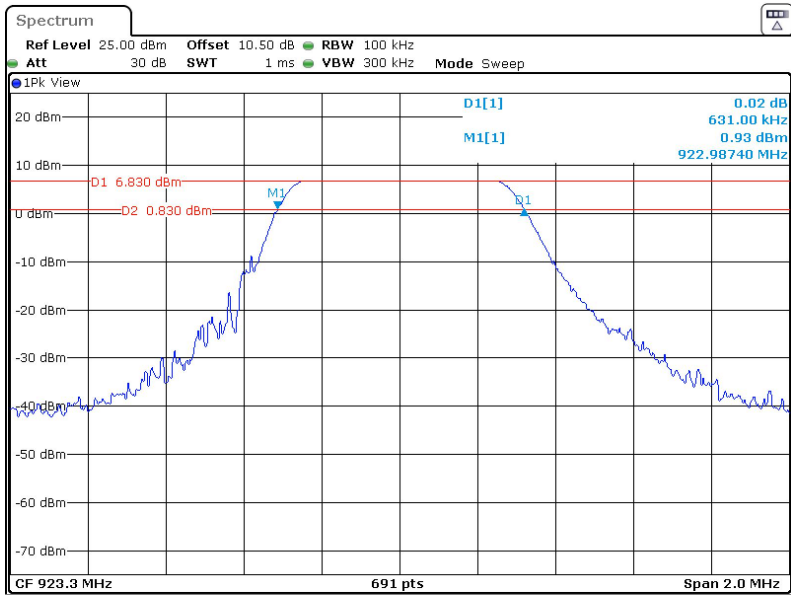
Middle Channel



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Date: 16.OCT.2024 19:34:25



High Channel



ProjectNo.:2401W20143E-RF Tester: Brian Li  
Date: 16.OCT.2024 19:43:33

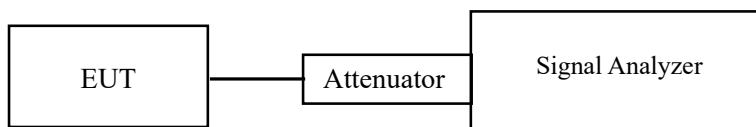
## FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

### Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



### Test Data

#### Environmental Conditions

|                    |         |
|--------------------|---------|
| Temperature:       | 25.7 °C |
| Relative Humidity: | 55 %    |
| ATM Pressure:      | 101 kPa |

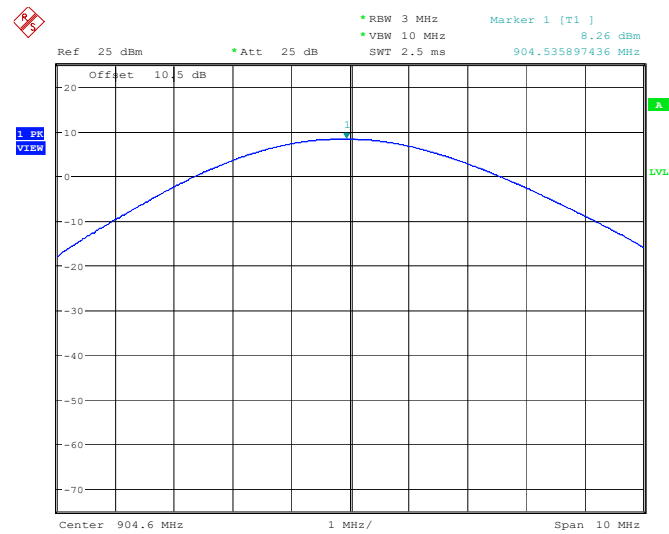
*The testing was performed by Brian Li on 2024-10-16.*

*EUT operation mode: Transmitting*

Test Result: Compliant. Please refer to the following table and plots.

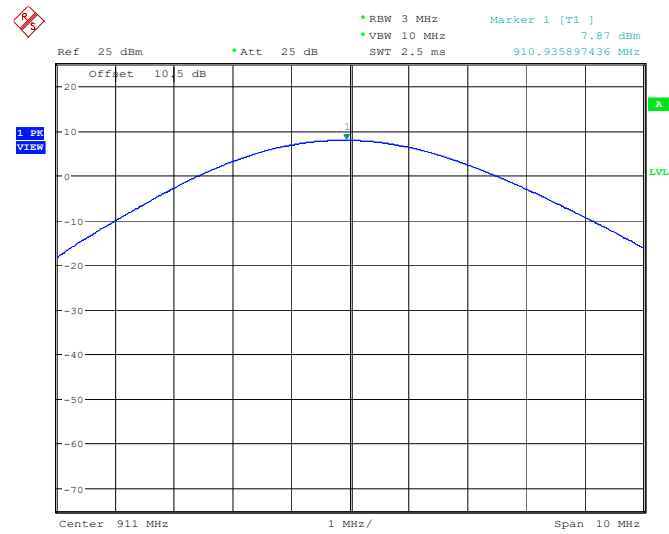
| Test Channel | Test Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) | Limit (dBm) |
|--------------|----------------------|---|-------------|
| Lowest       | 904.6                | 8.26                                      | ≤30         |
| Middle       | 911                  | 7.87                                      | ≤30         |
| Highest      | 923.3                | 8.18                                      | ≤30         |

Low Channel



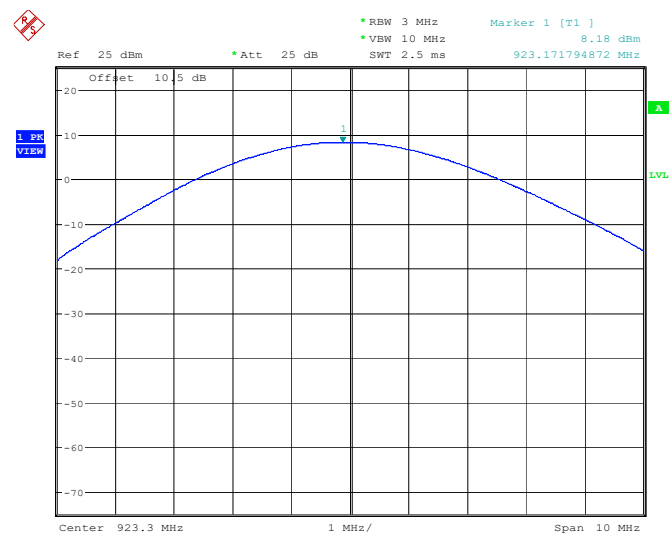
ProjectNo.:2401W20143E-RF Tester:Brian Li  
Date: 16.OCT.2024 00:25:34

Middle Channel



ProjectNo.:2401W20143E-RF Tester:Brian Li  
Date: 16.OCT.2024 00:26:33

High Channel



ProjectNo.:2401W20143E-RF    Tester:Brian Li  
Date: 16.OCT.2024    00:29:21

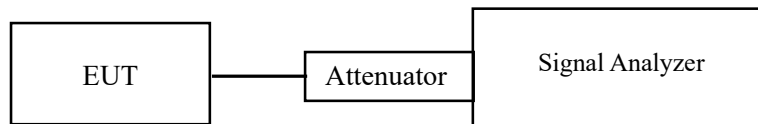
## FCC §15.247(d) - 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

### Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



### Test Data

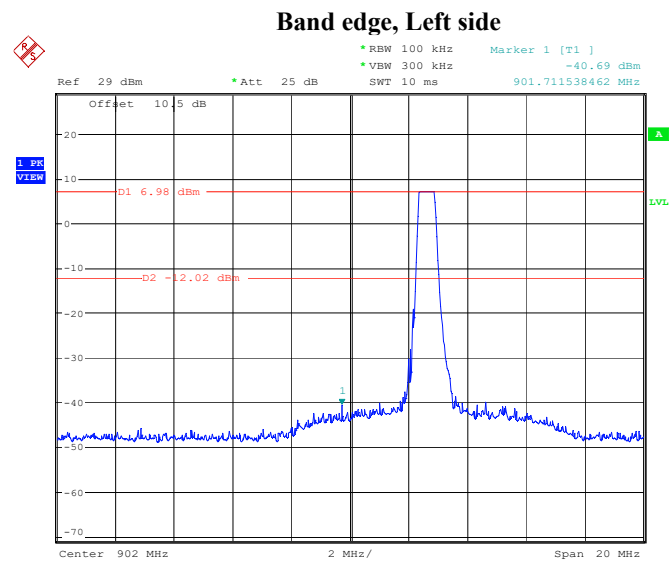
#### Environmental Conditions

|                    |         |
|--------------------|---------|
| Temperature:       | 25.7 °C |
| Relative Humidity: | 55 %    |
| ATM Pressure:      | 101 kPa |

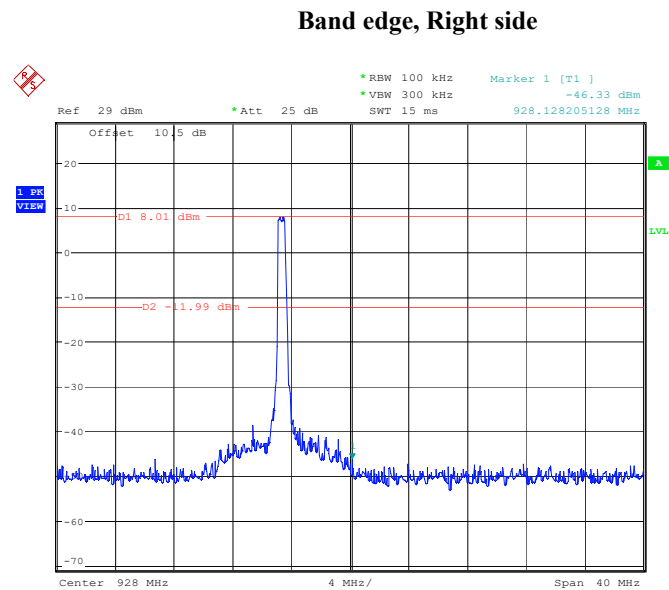
*The testing was performed by Brian Li on 2024-10-23.*

*EUT operation mode: Transmitting*

Test Result: Compliant. Please refer to the following plots.



ProjectNo.:2401W20143E-RF Tester:Brian Li  
Date: 23.OCT.2024 14:17:22



ProjectNo.:2401W20143E-RF Tester:Brian Li  
Date: 23.OCT.2024 14:12:19

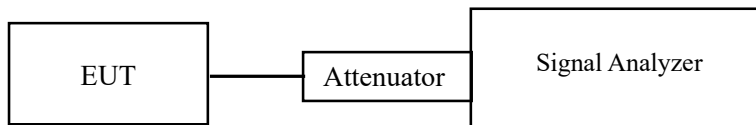
## FCC §15.247(e) - POWER SPECTRAL DENSITY

### Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW to:  $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$ .
3. Set the VBW  $\geq 3 \times \text{RBW}$ .
4. Set the span to 1.5 times the DTS bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



### Test Data

#### Environmental Conditions

|                    |         |
|--------------------|---------|
| Temperature:       | 25.7 °C |
| Relative Humidity: | 55 %    |
| ATM Pressure:      | 101 kPa |

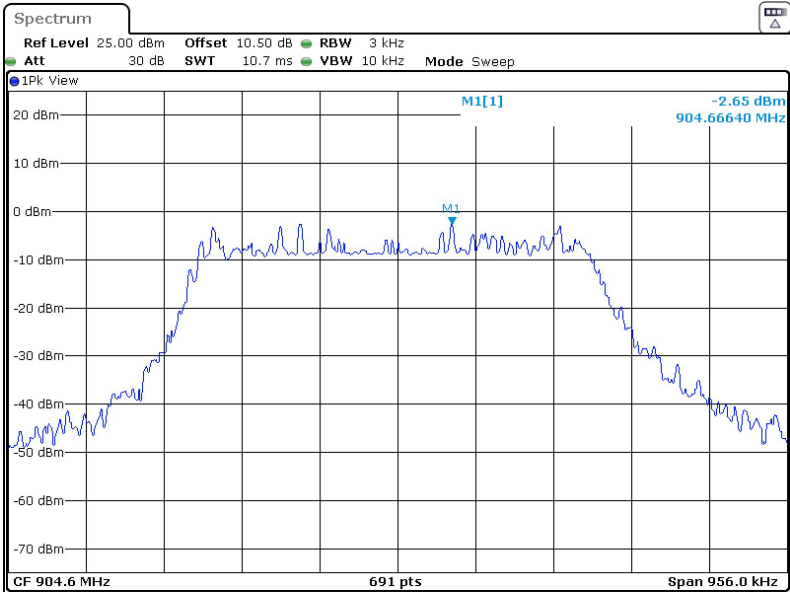
*The testing was performed by Brian Li on 2024-10-16 and 2024-10-23.*

*EUT operation mode: Transmitting*

Test Result: Compliant. Please refer to the following table and plots.

| Test Channel | Test Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) |
|--------------|----------------------|-----------------------------------|------------------|
| Low          | 904.6                | -2.65                             | ≤8.00            |
| Middle       | 911                  | -3.72                             | ≤8.00            |
| High         | 923.3                | -3.08                             | ≤8.00            |

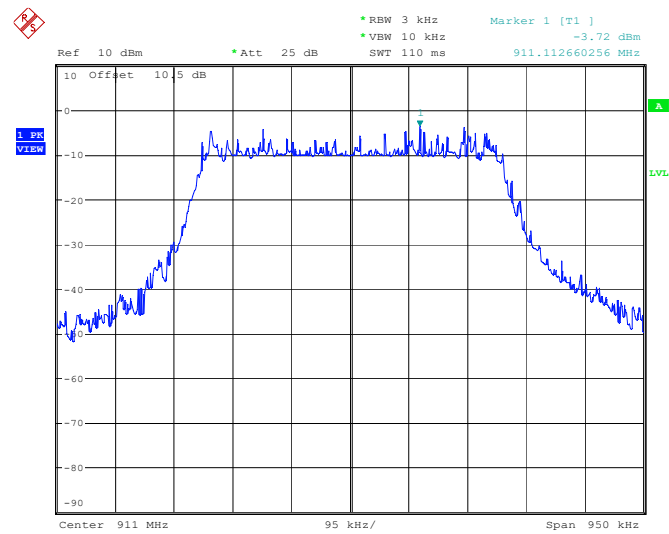
Low Channel



ProjectNo.:2401W20143E-RF Tester: Brian Li  
Date: 16.OCT.2024 19:50:14

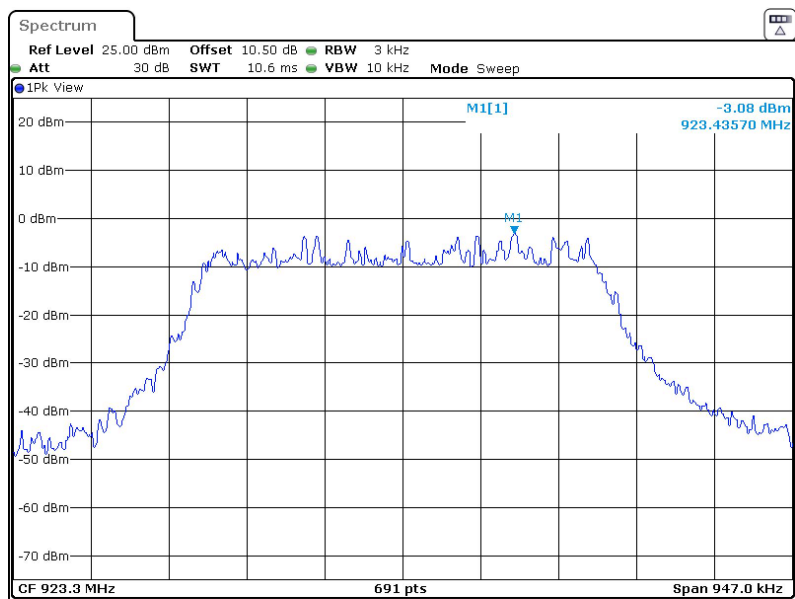


Middle Channel



ProjectNo.:2401W20143E-RF Tester:Brian Li  
Date: 23.OCT.2024 13:47:25

High Channel



ProjectNo.:2401W20143E-RF Tester: Brian Li  
Date: 16.OCT.2024 19:45:00

## **EUT PHOTOGRAPHS**

Please refer to the attachment 2401W20143E-RF External photo and 2401W20143E-RF Internal photo.

## **TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment 2401W20143E-RF Test Setup photo.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***