

# TEST REPORT

Applicant Name : JM Manufacturing (HK) Ltd.  
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Hung Hom, Kowloon, Hong Kong  
Report Number : 2401U79772E-RF-00  
FCC ID: 2AHGJJMRC036-27-1

## Test Standard (s)

FCC PART 15.227

## Sample Description

Product Type: RC FOODIE CAR\*PPK  
Model No.: 9155401  
Multiple Model(s) No.: N/A  
Trade Mark: N/A  
Date Received: 2024/06/06  
Issue Date: 2024/07/03

|              |                   |
|--------------|-------------------|
| Test Result: | Pass <sup>▲</sup> |
|--------------|-------------------|

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

## Prepared and Checked By:

*Jojo Guo*

Jojo Guo  
RF Engineer

## Approved By:

*Michelle Zeng*

Michelle Zeng  
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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## Bay Area Compliance Laboratories Corp. (Shenzhen)

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## DOCUMENT REVISION HISTORY

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| Revision Number | Report Number     | Description of Revision | Date of Revision |
|-----------------|-------------------|-------------------------|------------------|
| 0               | 2401U79772E-RF-00 | Original Report         | 2024/07/03       |

## GENERAL INFORMATION

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

|                                    |                                      |
|------------------------------------|--------------------------------------|
| Product                            | RC FOODIE CAR*PPK                    |
| Tested Model                       | 9155401                              |
| Multiple Model(s)                  | N/A                                  |
| Frequency                          | 27.145 MHz                           |
| Maximum E-Field                    | 69.55 dBuV/m@3m                      |
| Antenna Specification <sup>#</sup> | 0dBi (provided by the applicant)     |
| Voltage Range                      | DC 3V from battery(1.5V*2)           |
| Sample serial number               | 2MKS-1 (Assigned by BAACL, 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.

The objective is to determine the compliance of EUT with FCC rules, section 15.203, 15.205, 15.209, 15.215 and 15.227.

### 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.

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%                                  |
| AC Power Lines Conducted Emissions | 9kHz-150kHz                 | 3.94dB(k=2, 95% level of confidence) |
|                                    | 150kHz-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) |
| 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 a typical mode.

### EUT Exercise Software

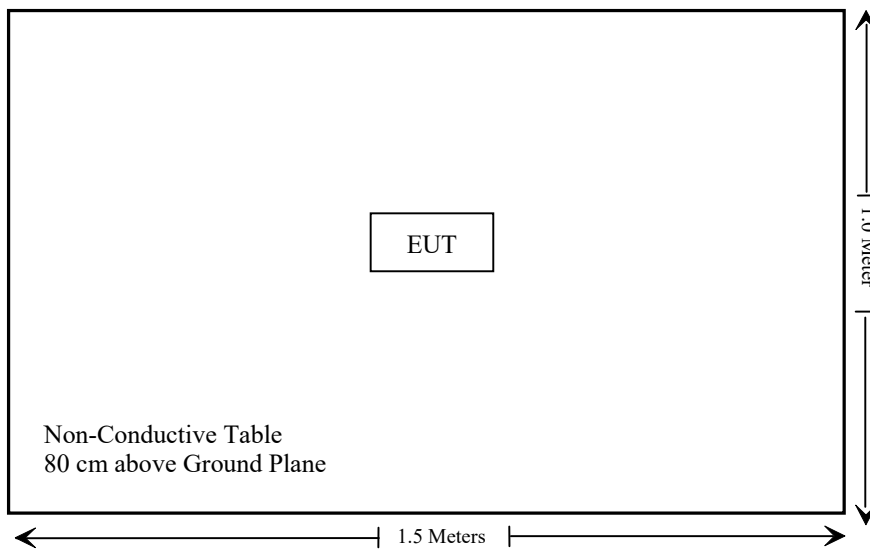
No exercise software was used.

### Equipment Modifications

No modifications.

### Block Diagram of Test Setup

For Radiated Emissions:



**SUMMARY OF TEST RESULTS**

| FCC Rules                                   | Description of Test                          | Result         |
|---|--|----------------|
| § 1.1307(b)(3)(i)(A)&<br>§2.1093            | RF Exposure                                  | Compliant      |
| §15.203                                     | Antenna requirement                          | Compliant      |
| §15.207                                     | Conducted Emissions                          | Not Applicable |
| §15.205, §15.209,<br>§15.227(a), §15.227(b) | Field Strength and Restricted Band Emissions | Compliant      |
| §15.215(c)                                  | 20dB Emission Bandwidth                      | Compliant      |

Not Applicable: The EUT is powered by battery.

**TEST EQUIPMENT LIST**

| Manufacturer      | Description         | Model           | Serial Number | Calibration Date | Calibration Due Date |
|-------------------|---------------------|-----------------|---------------|------------------|----------------------|
| R&S               | 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           |
| BACL              | Active Loop Antenna | 1313-1A         | 4031911       | 2024/03/21       | 2025/03/20           |
| Unknown           | Cable               | Chamber Cable 1 | F-03-EM236    | 2023/08/03       | 2024/08/02           |
| Audix             | EMI Test software   | E3              | 19821b(V9)    | NCR              | NCR                  |

\* **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 §1.1307(b)(3)(i)(A) & §2.1093 - RF EXPOSURE**

**Applicable Standard**

According to FCC §2.1093 and §1.1307(b), 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 D04 Interim General RF Exposure Guidance v01, clause 2.1.2 – 1-mW test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

**Test Result**

For worst case:

| Frequency<br>(MHz) | Maximum EIRP |       | 1-mW test Exemption |
|--------------------|--------------|-------|---------------------|
|                    | (dBm)        | (mW)  |                     |
| 27.145             | -25.65       | 0.003 | Yes                 |

Note: The maximum E-field strength for the RF exposure evaluation  
 $EIRP(dBm) = E\text{-field strength}(dBuV/m) - 95.2$ , when distance is 3meter  
 So  $EIRP = 69.55dBuV/m - 95.2 = -25.65dBm$

**Result: Compliant.**

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## **FCC§15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

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.

### **Antenna Connector Construction**

The EUT has an integral antenna arrangement which was permanently attached; fulfill the requirement of this section. Please refer to EUT photos.

**Result: Compliant.**

## FCC§15.205, §15.209, §15.227(a), §15.227 (b) - FIELD STRENGTH AND RESTRICTED BAND EMISSIONS

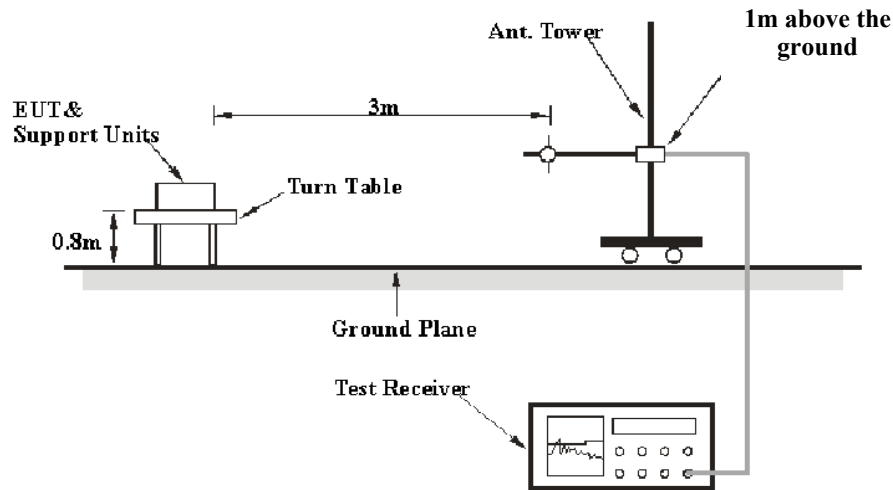
### Applicable Standard

According to FCC §15.227 (a), the field strength if any emission within this band shall not exceed 10,000 microvolts/meter at 3 meters.

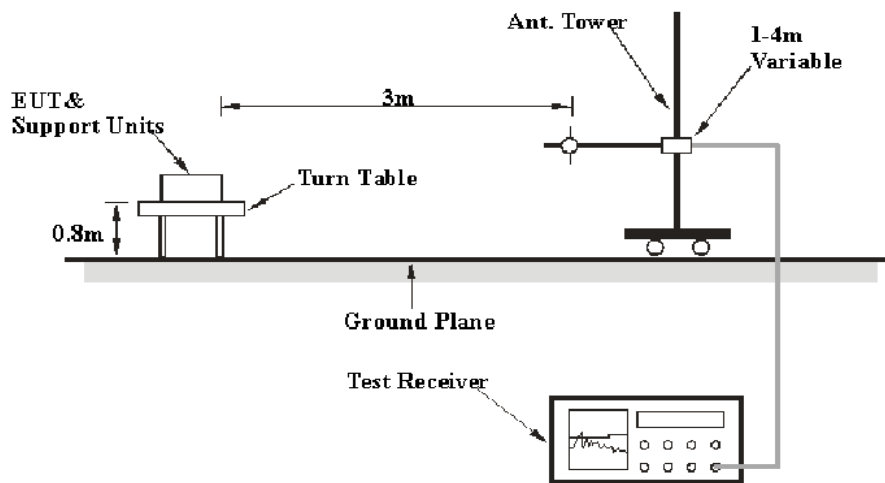
(b) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in §15.209.

### EUT Setup

#### 9 kHz-30MHz:



#### 30MHz-1GHz:



The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part 15.205 and 15.209 and 15.227 limits.

### EMI Test Receiver Setup

The system was investigated from 9 kHz to 1000MHz.

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

| Frequency Range   | RBW     | Video B/W | IF B/W  | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 9 kHz – 150 kHz   | /       | /         | 200 Hz  | QP          |
|                   | 300 Hz  | 1 kHz     | /       | PK          |
| 150 kHz – 30 MHz  | /       | /         | 9 kHz   | QP          |
|                   | 10 kHz  | 30 kHz    | /       | PK          |
| 30 MHz – 1000 MHz | /       | /         | 120 kHz | QP          |
|                   | 100 kHz | 300 kHz   | /       | PK          |

Note 1: For the frequency bands 9–90 kHz, 110–490 kHz are based on measurements employing an average detector.

Note 2: 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.

### 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 for frequency range of 9 kHz -1 GHz.

All emissions 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**

|                           |         |
|---------------------------|---------|
| <b>Temperature:</b>       | 25 °C   |
| <b>Relative Humidity:</b> | 54 %    |
| <b>ATM Pressure:</b>      | 101 kPa |

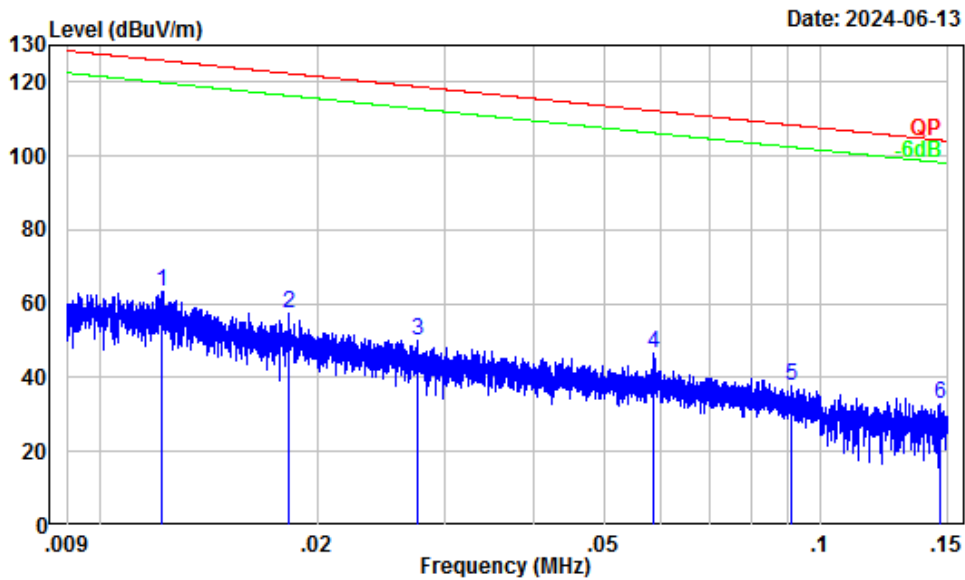
*Testing was performed by Anson Su on 2024-06-13.*

*Test mode: Transmitting*

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

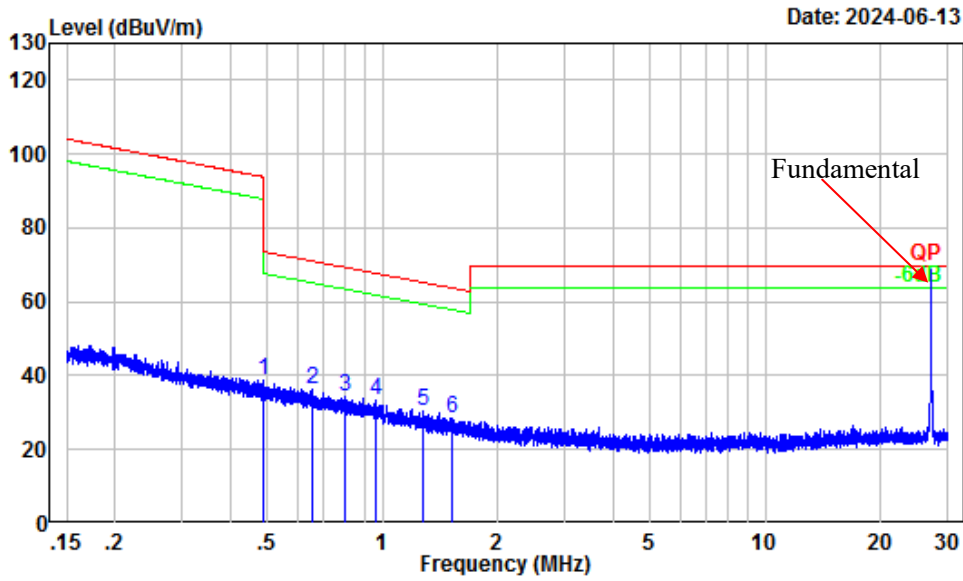
9 kHz~30MHz:

Ground-parallel



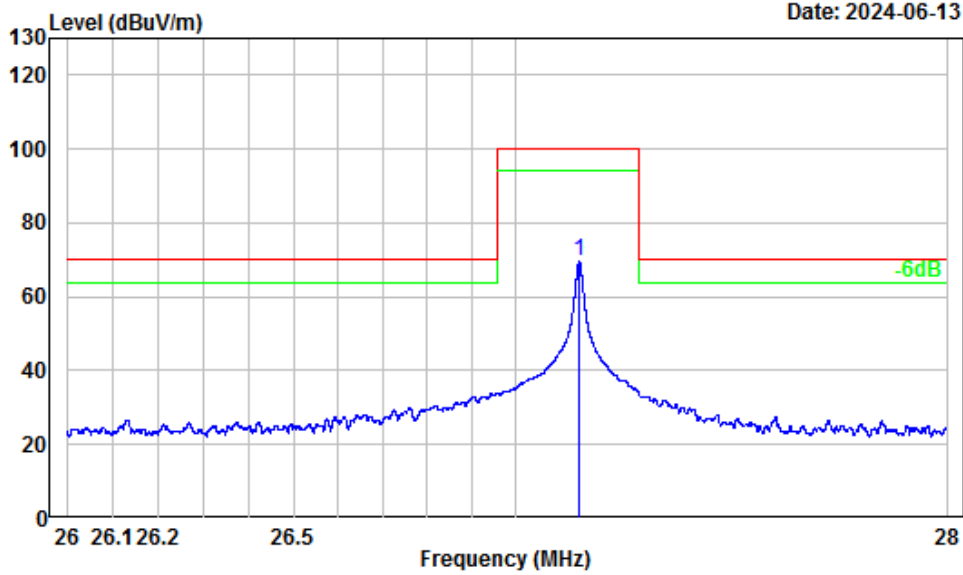
Site : Chamber A  
 Condition : 3m  
 Project Number: 2401U79772E-RF  
 Test Mode : Transmitting  
 Note : Ground-parallel  
 Tester : Anson Su

|   | Freq | Factor | Read  |        | Limit  |        | Over | Remark |
|---|------|--------|-------|--------|--------|--------|------|--------|
|   |      |        | Level | Level  | Line   | Limit  |      |        |
|   | MHz  | dB/m   | dBuV  | dBuV/m | dBuV/m | dB     |      |        |
| 1 | 0.01 | 36.56  | 26.85 | 63.41  | 125.87 | -62.46 | Peak |        |
| 2 | 0.02 | 33.49  | 24.02 | 57.51  | 122.39 | -64.88 | Peak |        |
| 3 | 0.03 | 28.74  | 21.25 | 49.99  | 118.81 | -68.82 | Peak |        |
| 4 | 0.06 | 21.90  | 24.75 | 46.65  | 112.23 | -65.58 | Peak |        |
| 5 | 0.09 | 17.95  | 19.93 | 37.88  | 108.44 | -70.56 | Peak |        |
| 6 | 0.15 | 14.90  | 18.15 | 33.05  | 104.31 | -71.26 | Peak |        |



Site : Chamber A  
 Condition : 3m  
 Project Number: 2401U79772E-RF  
 Test Mode : Transmitting  
 Note : Ground-parallel  
 Tester : Anson Su

|   | Freq | Factor | Read Level | Level  | Limit  | Over   | Remark |
|---|------|--------|------------|--------|--------|--------|--------|
|   | MHz  | dB/m   | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1 | 0.49 | 3.67   | 35.27      | 38.94  | 73.78  | -34.84 | Peak   |
| 2 | 0.66 | 1.61   | 34.45      | 36.06  | 71.21  | -35.15 | Peak   |
| 3 | 0.80 | -0.12  | 34.68      | 34.56  | 69.44  | -34.88 | Peak   |
| 4 | 0.96 | -1.31  | 34.77      | 33.46  | 67.81  | -34.35 | Peak   |
| 5 | 1.28 | -2.58  | 33.04      | 30.46  | 65.26  | -34.80 | Peak   |
| 6 | 1.53 | -3.42  | 31.91      | 28.49  | 63.73  | -35.24 | Peak   |



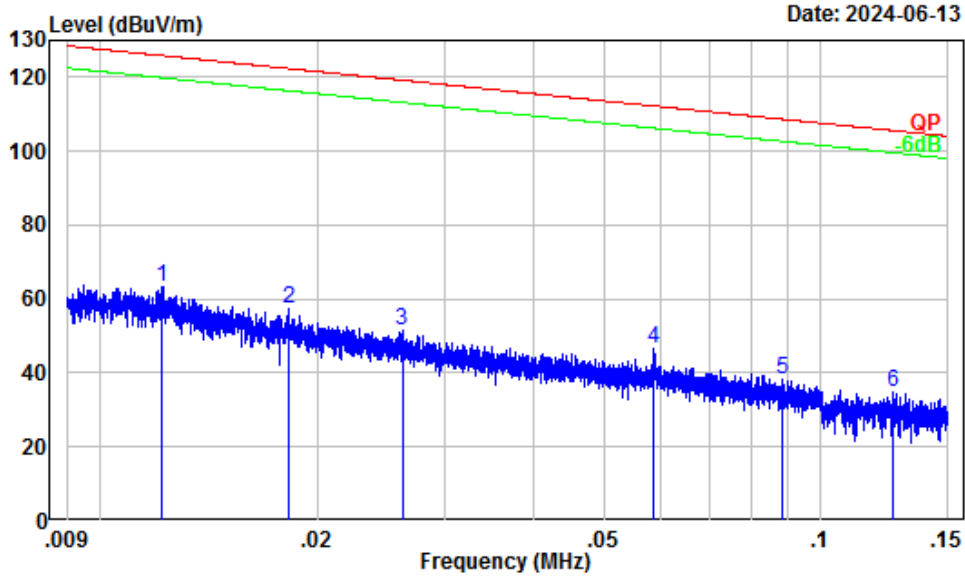
Site : Chamber A  
 Condition : 3m  
 Project Number: 2401U79772E-RF  
 Test Mode : Transmitting  
 Note : Ground-parallel  
 Tester : Anson Su

|   | Freq   | Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|---|--------|--------|------------|-------------|------------|------------|--------|
|   | MHz    | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB         |        |
| 1 | 27.145 | -4.83  | 74.37      | 69.54       | 100.00     | -30.46     | Peak   |

**Note:**  
 For fundamental, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

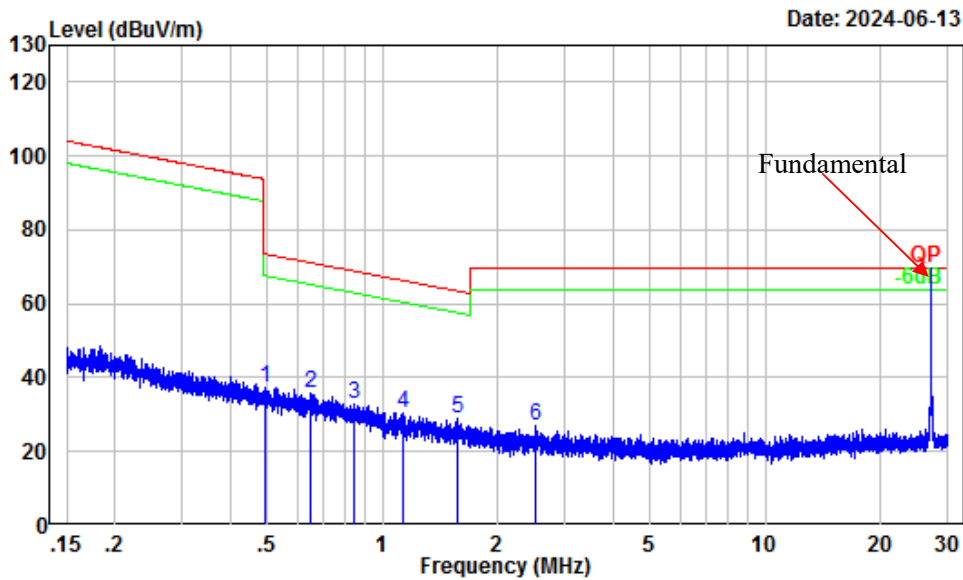


**Parallel**



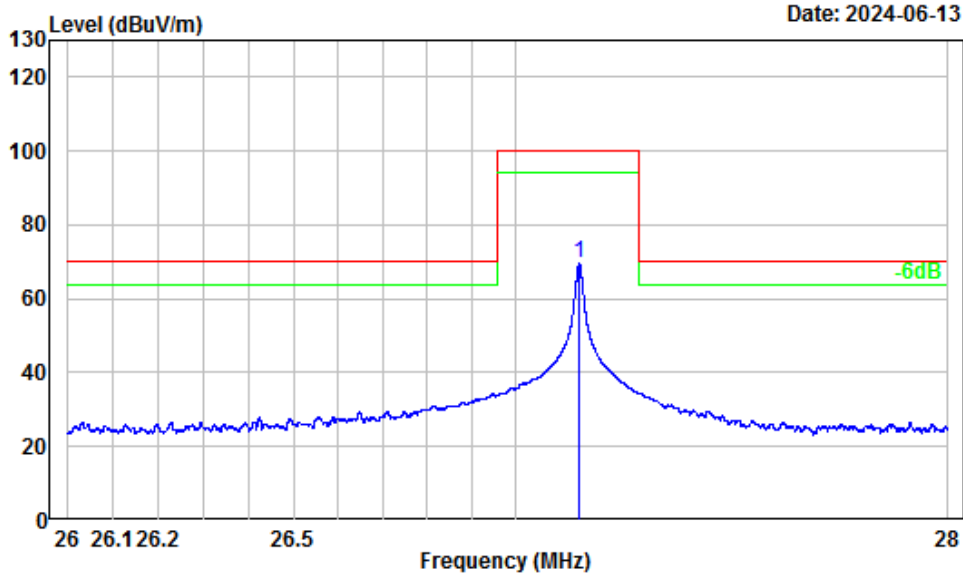
Site : Chamber A  
 Condition : 3m  
 Project Number: 2401U79772E-RF  
 Test Mode : Transmitting  
 Note : Parallel  
 Tester : Anson Su

|   | Freq | Factor | Read Level | Limit Level | Over Limit | Remark      |
|---|------|--------|------------|-------------|------------|-------------|
|   | MHz  | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB          |
| 1 | 0.01 | 36.56  | 26.85      | 63.41       | 125.87     | -62.46 Peak |
| 2 | 0.02 | 33.49  | 24.02      | 57.51       | 122.39     | -64.88 Peak |
| 3 | 0.03 | 29.39  | 22.32      | 51.71       | 119.22     | -67.51 Peak |
| 4 | 0.06 | 21.90  | 24.75      | 46.65       | 112.23     | -65.58 Peak |
| 5 | 0.09 | 18.21  | 20.21      | 38.42       | 108.69     | -70.27 Peak |
| 6 | 0.13 | 15.83  | 18.84      | 34.67       | 105.59     | -70.92 Peak |



Site : Chamber A  
 Condition : 3m  
 Project Number: 2401U79772E-RF  
 Test Mode : Transmitting  
 Note : Parallel  
 Tester : Anson Su

|   | Freq | Factor | Read Level | Limit Level | Over Limit | Remark      |
|---|------|--------|------------|-------------|------------|-------------|
|   | MHz  | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB          |
| 1 | 0.50 | 3.57   | 33.93      | 37.50       | 73.70      | -36.20 Peak |
| 2 | 0.65 | 1.65   | 34.10      | 35.75       | 71.26      | -35.51 Peak |
| 3 | 0.84 | -0.41  | 33.41      | 33.00       | 69.01      | -36.01 Peak |
| 4 | 1.14 | -2.07  | 32.47      | 30.40       | 66.34      | -35.94 Peak |
| 5 | 1.58 | -3.60  | 32.47      | 28.87       | 63.43      | -34.56 Peak |
| 6 | 2.50 | -5.49  | 32.43      | 26.94       | 69.54      | -42.60 Peak |

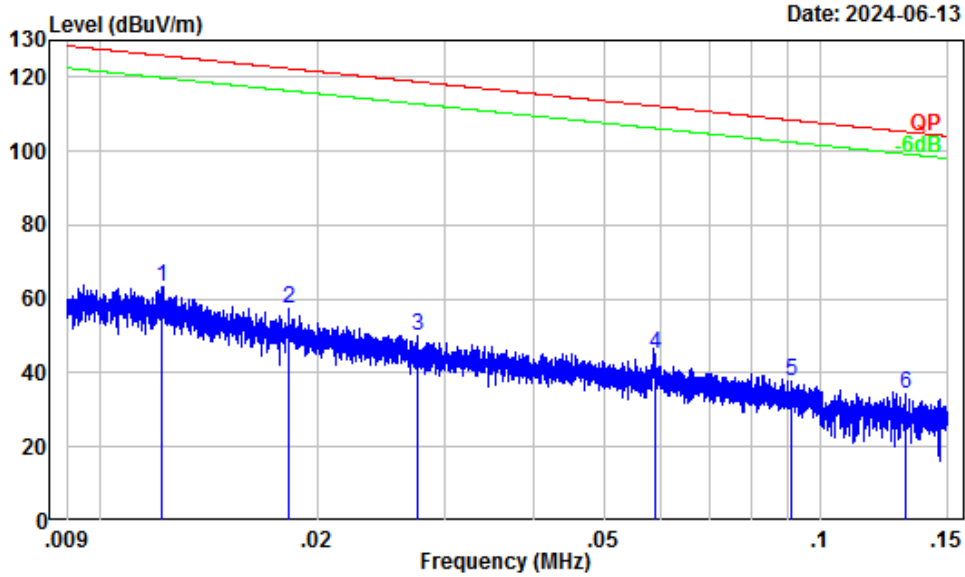


Site : Chamber A  
 Condition : 3m  
 Project Number: 2401U79772E-RF  
 Test Mode : Transmitting  
 Note : Parallel  
 Tester : Anson Su

|   | Freq   | Factor | Read Level | Limit Level | Over Limit | Remark      |
|---|--------|--------|------------|-------------|------------|-------------|
|   | MHz    | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB          |
| 1 | 27.145 | -4.83  | 74.38      | 69.55       | 100.00     | -30.45 Peak |

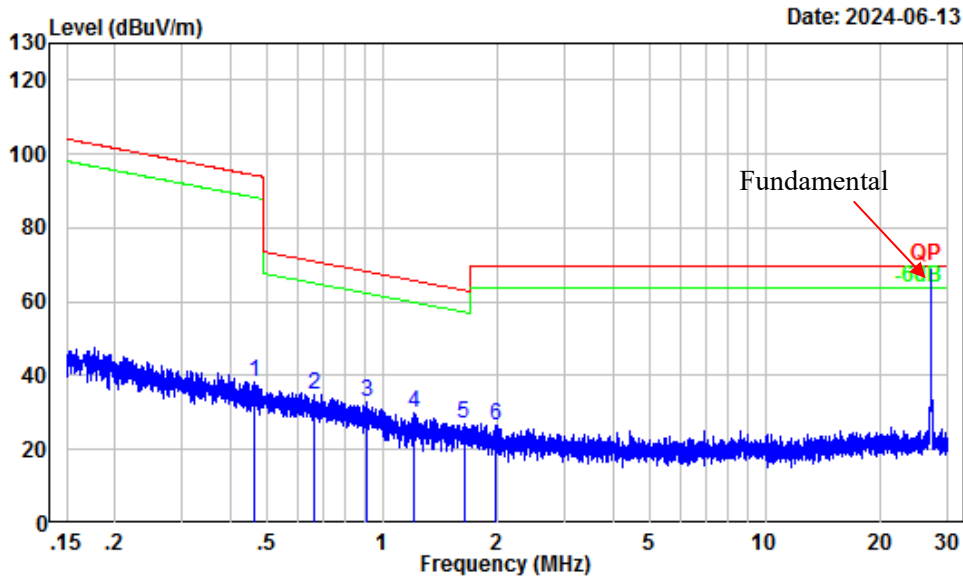
Note:  
 For fundamental, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

**Perpendicular**



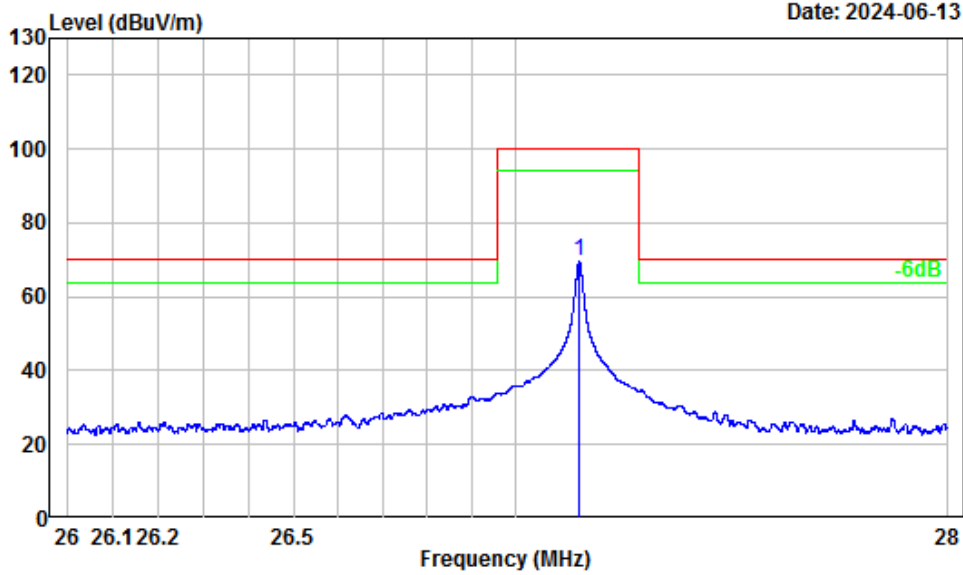
Site : Chamber A  
 Condition : 3m  
 Project Number: 2401U79772E-RF  
 Test Mode : Transmitting  
 Note : Perpendicular  
 Tester : Anson Su

|   | Freq | Factor | Read Level | Limit Level | Over Limit | Remark      |
|---|------|--------|------------|-------------|------------|-------------|
|   | MHz  | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB          |
| 1 | 0.01 | 36.56  | 26.85      | 63.41       | 125.87     | -62.46 Peak |
| 2 | 0.02 | 33.49  | 24.02      | 57.51       | 122.39     | -64.88 Peak |
| 3 | 0.03 | 28.74  | 21.25      | 49.99       | 118.81     | -68.82 Peak |
| 4 | 0.06 | 21.89  | 23.22      | 45.11       | 112.22     | -67.11 Peak |
| 5 | 0.09 | 17.95  | 19.93      | 37.88       | 108.44     | -70.56 Peak |
| 6 | 0.13 | 15.60  | 18.65      | 34.25       | 105.25     | -71.00 Peak |



Site : Chamber A  
 Condition : 3m  
 Project Number: 2401U79772E-RF  
 Test Mode : Transmitting  
 Note : Perpendicular  
 Tester : Anson Su

|   | Freq | Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|---|------|--------|------------|-------------|------------|------------|--------|
|   | MHz  | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB         |        |
| 1 | 0.46 | 4.27   | 33.94      | 38.21       | 94.30      | -56.09     | Peak   |
| 2 | 0.66 | 1.56   | 33.25      | 34.81       | 71.15      | -36.34     | Peak   |
| 3 | 0.92 | -0.96  | 33.80      | 32.84       | 68.26      | -35.42     | Peak   |
| 4 | 1.21 | -2.32  | 32.26      | 29.94       | 65.78      | -35.84     | Peak   |
| 5 | 1.63 | -3.79  | 30.76      | 26.97       | 63.12      | -36.15     | Peak   |
| 6 | 1.97 | -4.98  | 31.32      | 26.34       | 69.54      | -43.20     | Peak   |



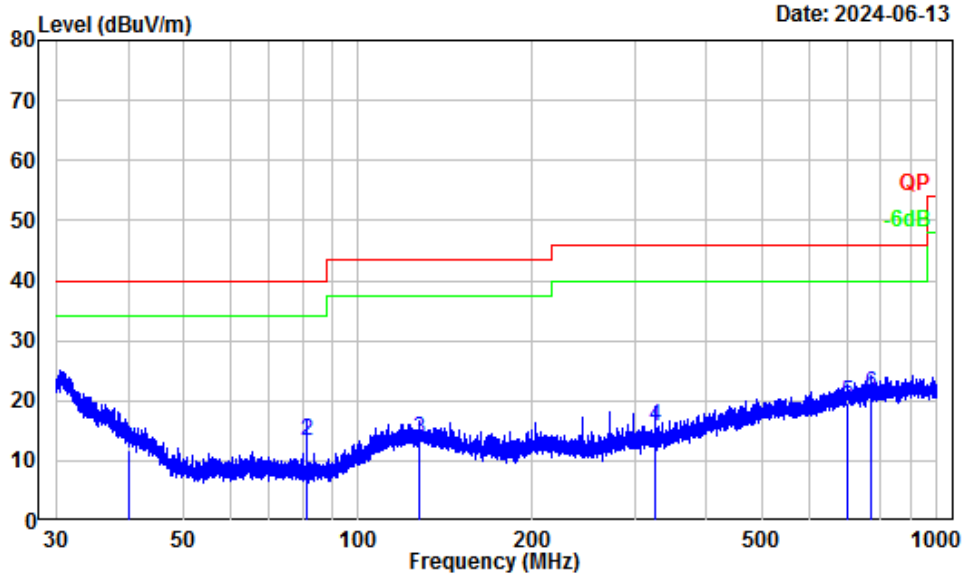
Site : Chamber A  
 Condition : 3m  
 Project Number: 2401U79772E-RF  
 Test Mode : Transmitting  
 Note : Perpendicular  
 Tester : Anson Su

|   | Freq   | Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|---|--------|--------|------------|-------------|------------|------------|--------|
|   | MHz    | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB         |        |
| 1 | 27.145 | -4.83  | 74.36      | 69.53       | 100.00     | -30.47     | Peak   |

Note:  
 For Fundamental, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

30 MHz ~ 1GHz

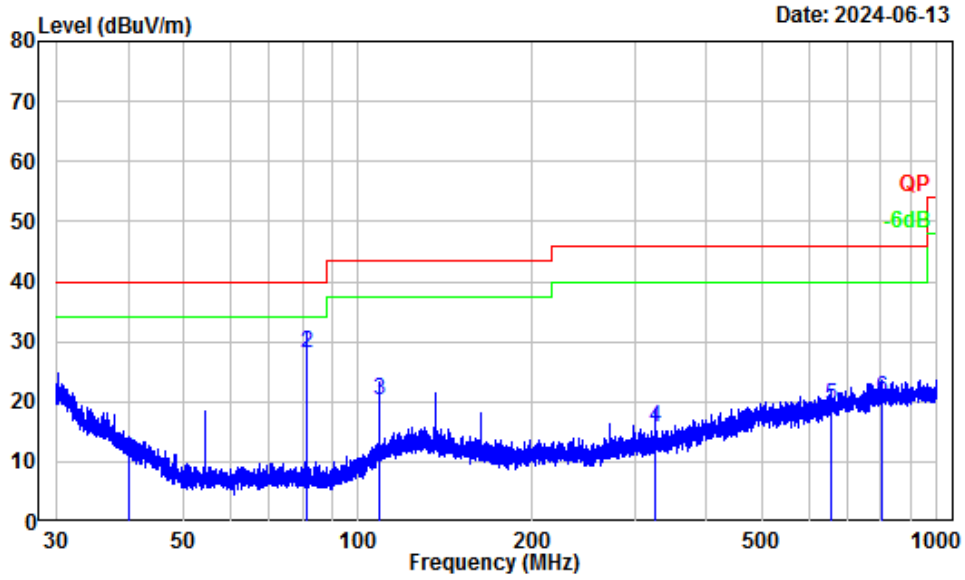
Horizontal



Site : Chamber A  
 Condition : 3m Horizontal  
 Project Number: 2401U79772E-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 | 40.22  | -11.66 | 23.46      | 11.80  | 40.00  | -28.20     | QP     |
| 2 | 81.43  | -18.20 | 31.58      | 13.38  | 40.00  | -26.62     | QP     |
| 3 | 127.72 | -12.13 | 25.70      | 13.57  | 43.50  | -29.93     | QP     |
| 4 | 325.74 | -12.37 | 28.22      | 15.85  | 46.00  | -30.15     | QP     |
| 5 | 698.69 | -6.17  | 25.83      | 19.66  | 46.00  | -26.34     | QP     |
| 6 | 768.07 | -5.46  | 26.66      | 21.20  | 46.00  | -24.80     | QP     |

**Vertical**



Date: 2024-06-13

Site : Chamber A  
 Condition : 3m Vertical  
 Project Number: 2401U79772E-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 | 40.10  | -13.08 | 23.33      | 10.25  | 40.00      | -29.75     | QP     |
| 2 | 81.43  | -18.74 | 46.94      | 28.20  | 40.00      | -11.80     | QP     |
| 3 | 108.55 | -14.65 | 34.81      | 20.16  | 43.50      | -23.34     | QP     |
| 4 | 325.74 | -12.72 | 28.47      | 15.75  | 46.00      | -30.25     | QP     |
| 5 | 657.68 | -7.04  | 26.27      | 19.23  | 46.00      | -26.77     | QP     |
| 6 | 805.31 | -5.38  | 25.79      | 20.41  | 46.00      | -25.59     | QP     |



**FCC§15.215(c) - 20dB EMISSION BANDWIDTH**

**Applicable Standard**

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

**Test Procedure**

Per ANSI C63.10-2013 §6.4 & §6.9.

**Test Data**

**Environmental Conditions**

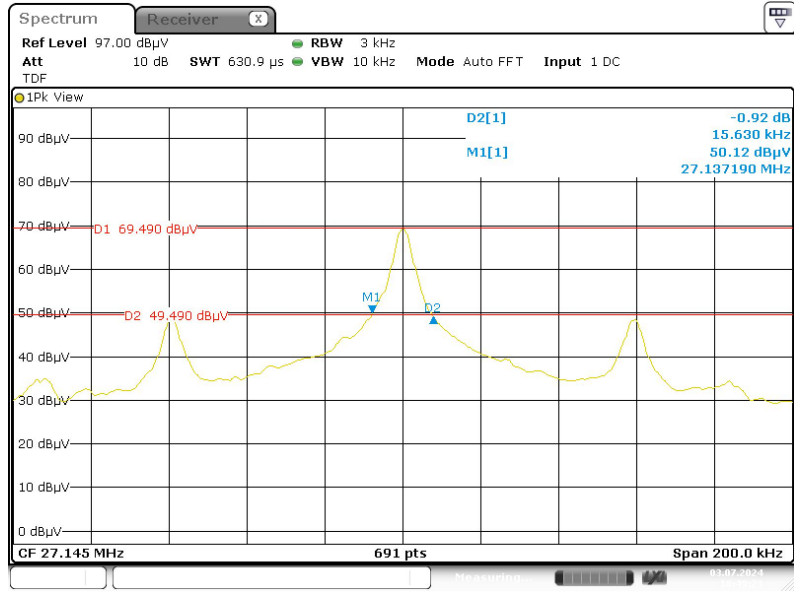
|                           |         |
|---------------------------|---------|
| <b>Temperature:</b>       | 27 °C   |
| <b>Relative Humidity:</b> | 51 %    |
| <b>ATM Pressure:</b>      | 101 kPa |

*Testing was performed by Anson Su on 2024-07-03.*

*Test Mode: Transmitting*

*Please refer to the following plots.*

| <b>Frequency (MHz)</b> | <b>20dB Bandwidth (MHz)</b> |
|------------------------|-----------------------------|
| 27.145                 | 0.01563                     |



ProjectNo.:2401U79772E-RF Tester:Anson Su  
Date: 3.JUL.2024 18:49:23

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## **EUT PHOTOGRAPHS**

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Please refer to the attachment 2401U79772E-RF External photo and 2401U79772E-RF Internal photo.

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## **TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment 2401U79772E-RF Test Setup photo.

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