

## TEST REPORT

**Applicant:** Foryou Multimedia Electronics Co., Ltd.

**Address:** No.1, North Shangxia Road, Dongjiang, Hi-tech Industry  
Park, Huizhou, Guangdong, China

**Product Name:** WIRELESS CHARGER

**FCC ID:** PUZ-WAB13W027B

**Standard(s):** 47 CFR Part 15, Subpart C  
ANSI C63.10-2020

**Report Number:** 2502S56505E-RF-00A

**Report Date:** 2025/5/22

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

*Pedro Yun*

*Gavin Xu*

**Reviewed By:** Pedro Yun

**Approved By:** Gavin Xu

Title: Project Engineer

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**DOCUMENT REVISION HISTORY**

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 1.0             | 2502S56505E-RF-00A | Original Report         | 2025/5/22        |

## 1. GENERAL INFORMATION

### 1.1 General Description of Equipment under Test

|                                                                                                                                                                       |                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>EUT Name:</b>                                                                                                                                                      | WIRELESS CHARGER                                                                 |
| <b>EUT Model:</b>                                                                                                                                                     | WAB13W027B                                                                       |
| <b>Multiple Models:</b>                                                                                                                                               | WAB13W012B, WAB13W013B                                                           |
| <b>Operation Frequency:</b>                                                                                                                                           | 110.5-148kHz                                                                     |
| <b>Modulation Type:</b>                                                                                                                                               | ASK                                                                              |
| <b>Rated Input Voltage:</b>                                                                                                                                           | DC 8~16V                                                                         |
| <b>Serial Number:</b>                                                                                                                                                 | 325N-1(Model:WAB13W027B)<br>325N-2(Model:WAB13W012B)<br>325N-3(Model:WAB13W013B) |
| <b>EUT Received Date:</b>                                                                                                                                             | 2025/4/29                                                                        |
| <b>EUT Received Status:</b>                                                                                                                                           | Good                                                                             |
| Note: The multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer. |                                                                                  |

### 1.2 Accessory Information

| Accessory Description | Manufacturer | Model | Parameters |
|-----------------------|--------------|-------|------------|
| /                     | /            | /     | /          |

### 1.3 Antenna Information Detail ▲

| Antenna Manufacturer                                                                                                                                             | Antenna Type | input impedance (Ohm) | Frequency Range | Antenna Gain |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------|-----------------|--------------|
| Foryou Multimedia Electronics Co., Ltd.                                                                                                                          | Loop         | Unknown               | 110.5-148kHz    | Unknown      |
| <b>The design of compliance with §15.203:</b>                                                                                                                    |              |                       |                 |              |
| <input checked="" type="checkbox"/> Unit uses a permanently attached antenna.                                                                                    |              |                       |                 |              |
| <input type="checkbox"/> Unit uses a unique coupling to the intentional radiator.                                                                                |              |                       |                 |              |
| <input type="checkbox"/> Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit. |              |                       |                 |              |

### 1.4 Equipment Modifications

No modifications are made to the EUT during all test items.

## 2. SUMMARY OF TEST RESULTS

| FCC Rules                                                 | Description of Test         | Result         |
|-----------------------------------------------------------|-----------------------------|----------------|
| FCC§15.207 (a)                                            | AC Line Conducted Emissions | Not Applicable |
| §15.209; §15.205                                          | Radiated Spurious Emissions | Compliant      |
| §15.215(c)                                                | 20 dB Bandwidth             | Compliant      |
| FCC§15.203                                                | Antenna Requirement         | Compliant      |
| Not Applicable: the device was powered by vehicle system. |                             |                |

### 3. DESCRIPTION OF TEST CONFIGURATION

#### 3.1 EUT Operation Condition

The system was configured for testing in Engineering Mode, which was provided by the manufacturer. The device has 3 coil antennas, only one antenna can be use when charging, per pretest, the middle coil was the worst and reported.

#### 3.2 EUT Exercise Software

No software was used in test.

#### 3.3 Support Equipment List and Details

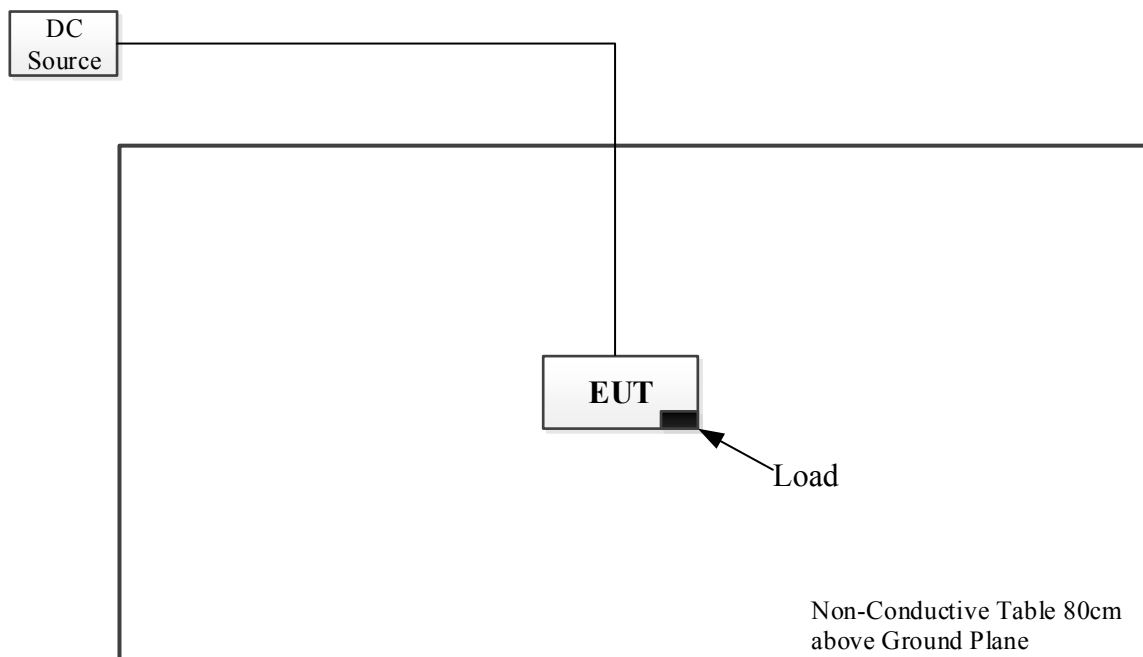
| Manufacturer | Description | Model        | Serial Number |
|--------------|-------------|--------------|---------------|
| DK           | DC Source   | DK-60V50A    | T-08-EE140    |
| Unknown      | Load        | RX24-25W 40Ω | RX24-25W 40Ω  |

#### 3.4 Support Cable List and Details

| Cable Description | Shielding Cable | Ferrite Core | Length (m) | From Port | To  |
|-------------------|-----------------|--------------|------------|-----------|-----|
| DC Power Cable    | NO              | NO           | 2          | DC Source | EUT |

#### 3.5 Block Diagram of Test Setup

Radiated Spurious Emissions:



### 3.6 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, 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. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

### 3.7 Measurement Uncertainty

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

| Parameter                         | Measurement Uncertainty                                                                                                                               |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupied Channel Bandwidth        | ±5 %                                                                                                                                                  |
| RF output power, conducted        | ±0.61dB                                                                                                                                               |
| Power Spectral Density, conducted | ±0.61 dB                                                                                                                                              |
| Unwanted Emissions, radiated      | 9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB |
| Unwanted Emissions, conducted     | ±2.47 dB                                                                                                                                              |
| Temperature                       | ±1℃                                                                                                                                                   |
| Humidity                          | ±5%                                                                                                                                                   |
| DC and low frequency voltages     | ±0.4%                                                                                                                                                 |
| Duty Cycle                        | 1%                                                                                                                                                    |
| AC Power Lines Conducted Emission | 3.11 dB (150 kHz to 30 MHz)                                                                                                                           |

## **4. REQUIREMENTS AND TEST RESULTS**

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### **4.1 AC Line Conducted Emissions**

Not Applicable, the device was powered by vehicle system.

## 4.2 Radiated Spurious Emissions

### 4.2.1 Applicable Standard

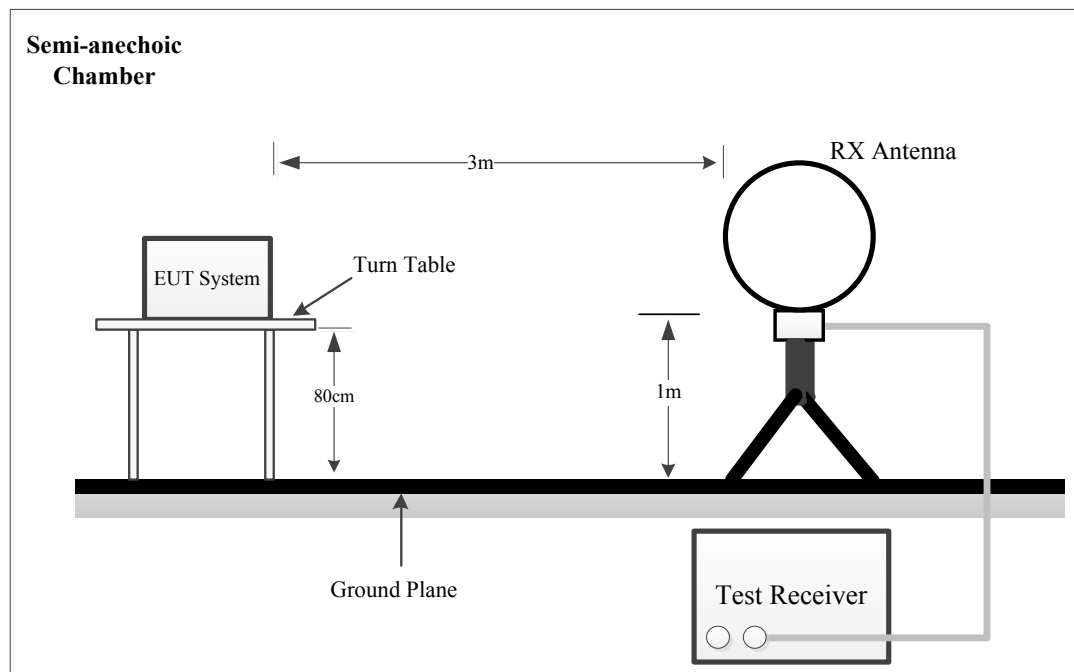
FCC Part 15.209

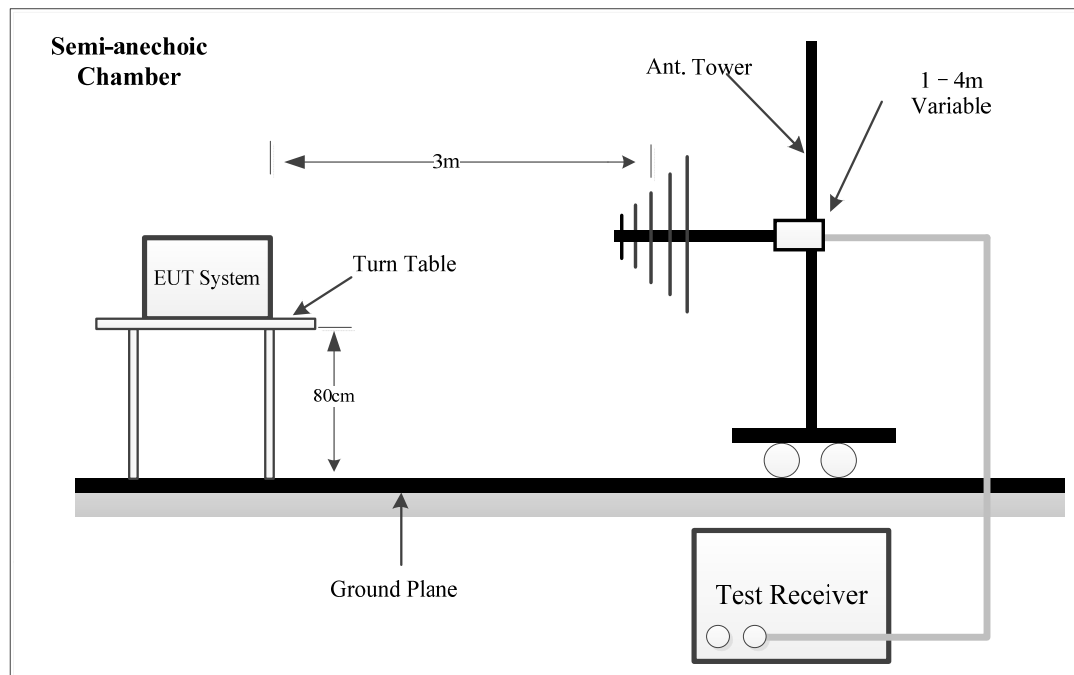
- (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009-0.490     | $2400/F(\text{kHz})$              | 300                           |
| 0.490-1.705     | $24000/F(\text{kHz})$             | 30                            |
| 1.705-30.0      | 30                                | 30                            |
| 30-88           | 100 **                            | 3                             |
| 88-216          | 150 **                            | 3                             |
| 216-960         | 200 **                            | 3                             |
| Above 960       | 500                               | 3                             |

### 4.2.2 EUT Setup

9kHz~30MHz:



**30MHz~1GHz:**

The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2020.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

#### 4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 1 GHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

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

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP measurement

#### 4.2.4 Test Procedure

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

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average detector.

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

#### 4.2.5 Corrected Result & Margin Calculation

$$E_{Log} = 20 \times \log_{10}(E_{Linear})$$

$E_{Linear}$  is the field strength of the emission, in  $\mu$  V/m

$E_{Log}$  is the field strength of the emission, in dB  $\mu$  V/m

For 9kHz-30MHz test, test distance is 3m, extrapolation limit shall be calculated using Equation:

$$E_{limit-measure} = E_{limit-Standard} + 40 \times \log_{10} (d_{standard}/d_{measure})$$

The basic equation is as follows:

$$\text{Result} = \text{Reading} + \text{Factor}$$

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

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Result}$$

**4.2.6 Test Data**

|                |                        |              |              |
|----------------|------------------------|--------------|--------------|
| Serial Number: | 325N-1, 325N-2, 325N-3 | Test Date:   | 2025/5/12    |
| Test Site:     | Chamber10m             | Test Mode:   | Transmitting |
| Tester:        | Zoo Zou                | Test Result: | Pass         |

| Environmental Conditions: |      |                           |       |
|---------------------------|------|---------------------------|-------|
| Temperature:<br>(°C)      | 25.1 | Relative Humidity:<br>(%) | 56    |
|                           |      | ATM<br>Pressure:<br>(kPa) | 100.6 |

**Test Equipment List and Details:**

| Manufacturer   | Description          | Model     | Serial Number | Calibration Date | Calibration Due Date |
|----------------|----------------------|-----------|---------------|------------------|----------------------|
| EMCO           | Passive Loop Antenna | 6512      | 9706-1206     | 2023/10/25       | 2026/10/24           |
| Sunol Sciences | Hybrid Antenna       | JB3       | A060611-1     | 2023/9/6         | 2026/9/5             |
| Narda          | Coaxial Attenuator   | 779-6dB   | 04269         | 2023/9/6         | 2026/9/5             |
| Unknown        | Coaxial Cable        | C-NJNJ-50 | C-1000-01     | 2024/7/1         | 2025/6/30            |
| Unknown        | Coaxial Cable        | C-NJNJ-50 | C-0400-04     | 2024/7/1         | 2025/6/30            |
| Unknown        | Coaxial Cable        | C-NJNJ-50 | C-0530-01     | 2024/7/1         | 2025/6/30            |
| Sonoma         | Amplifier            | 310N      | 185914        | 2024/8/26        | 2025/8/25            |
| R&S            | EMI Test Receiver    | ESCI      | 100224        | 2024/8/26        | 2025/8/25            |
| Audix          | Test Software        | E3        | 191218 V9     | N/A              | N/A                  |

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

**Test Data:**

After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to table and plots.

The test used DC 12V voltage.  
Test under the maximum power.

**1) 9kHz~30MHz**  
**Model:WAB13W027B**

Project No.: 2502S56505E-RF

Polarization: Parallel

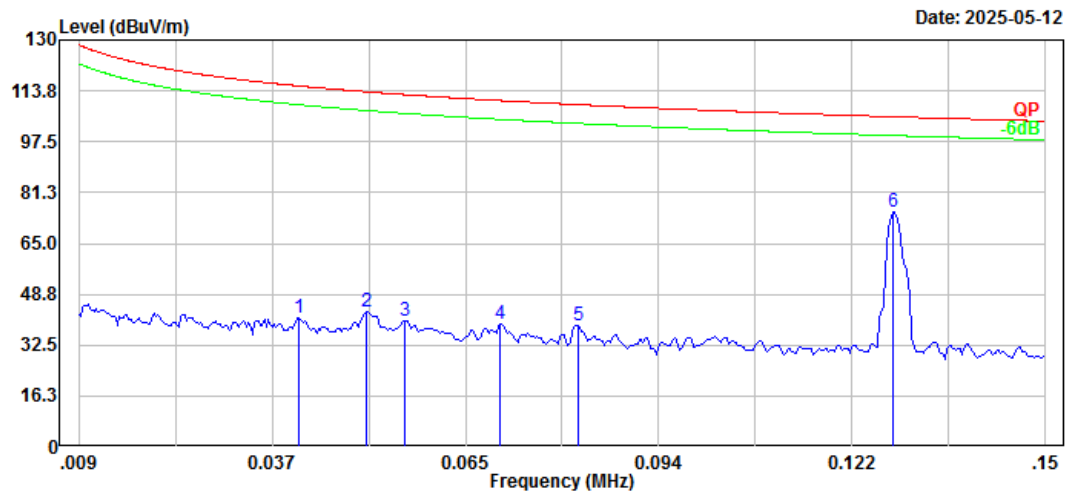
Test Mode: Transmitting

Note:

RBW:300Hz VBW:1kHz

Serial No.: 325N-1

Tester: Zoo Zou

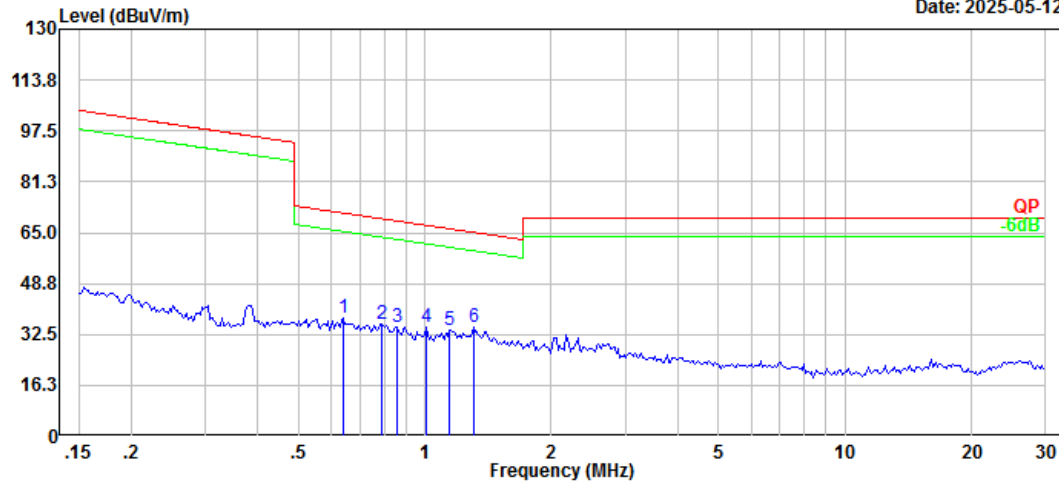


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.041              | -4.47             | 45.57            | 41.10              | 115.32            | 74.22          | Peak        |
| 2   | 0.051              | -0.86             | 43.88            | 43.02              | 113.45            | 70.43          | Peak        |
| 3   | 0.057              | -2.73             | 42.91            | 40.18              | 112.54            | 72.36          | Peak        |
| 4   | 0.070              | -1.39             | 40.51            | 39.12              | 110.64            | 71.52          | Peak        |
| 5   | 0.082              | 0.26              | 38.61            | 38.87              | 109.35            | 70.48          | Peak        |
| 6   | 0.128              | 41.42             | 33.87            | 75.29              | 105.48            | 30.19          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Parallel  
Test Mode: Transmitting  
Note:  
RBW:10kHz VBW:30kHz

Serial No.: 325N-1  
Tester: Zoo Zou

Date: 2025-05-12

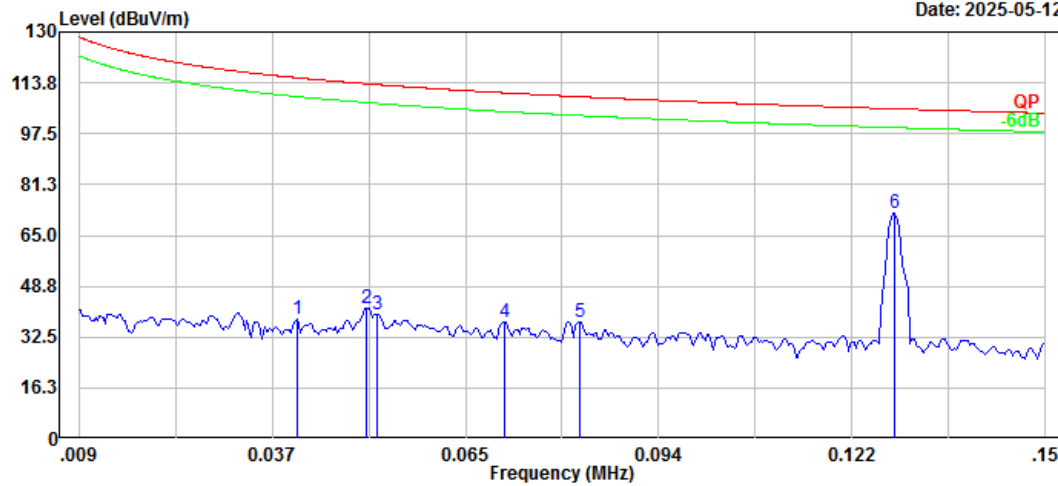


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.641              | 15.74             | 22.06            | 37.80              | 71.42             | 33.62          | Peak        |
| 2   | 0.792              | 15.36             | 20.63            | 35.99              | 69.54             | 33.55          | Peak        |
| 3   | 0.862              | 15.74             | 19.32            | 35.06              | 68.79             | 33.73          | Peak        |
| 4   | 1.010              | 18.22             | 16.51            | 34.73              | 67.38             | 32.65          | Peak        |
| 5   | 1.147              | 17.78             | 15.91            | 33.69              | 66.25             | 32.56          | Peak        |
| 6   | 1.303              | 19.54             | 15.22            | 34.76              | 65.13             | 30.37          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note:  
RBW:300Hz VBW:1kHz

Serial No.: 325N-1  
Tester: Zoo Zou

Date: 2025-05-12



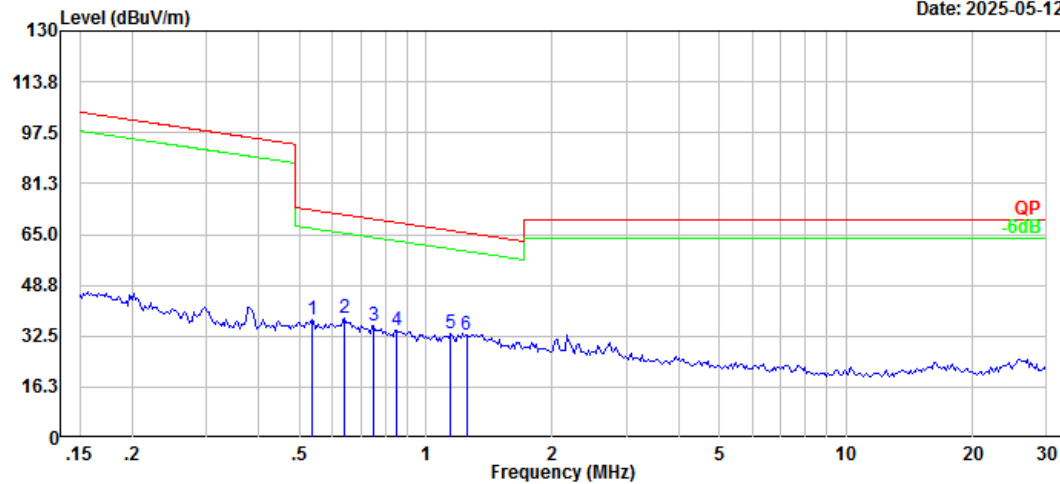
| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.041              | -7.55             | 45.62            | 38.07              | 115.38            | 77.31          | Peak        |
| 2   | 0.051              | -2.08             | 43.88            | 41.80              | 113.45            | 71.65          | Peak        |
| 3   | 0.052              | -3.94             | 43.64            | 39.70              | 113.21            | 73.51          | Peak        |
| 4   | 0.071              | -3.17             | 40.41            | 37.24              | 110.57            | 73.33          | Peak        |
| 5   | 0.082              | -1.18             | 38.56            | 37.38              | 109.32            | 71.94          | Peak        |
| 6   | 0.128              | 38.40             | 33.85            | 72.25              | 105.46            | 33.21          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note:

RBW:10kHz VBW:30kHz

Serial No.: 325N-1  
Tester: Zoo Zou

Date: 2025-05-12

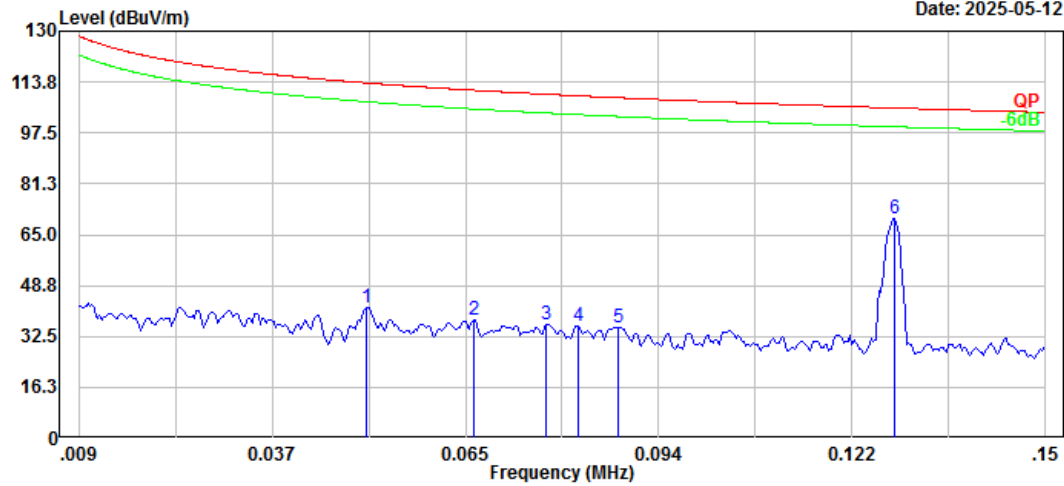


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.535              | 14.85             | 23.16            | 38.01              | 73.02             | 35.01          | Peak        |
| 2   | 0.641              | 16.07             | 22.06            | 38.13              | 71.42             | 33.29          | Peak        |
| 3   | 0.751              | 14.85             | 21.00            | 35.85              | 70.01             | 34.16          | Peak        |
| 4   | 0.853              | 14.68             | 19.50            | 34.18              | 68.89             | 34.71          | Peak        |
| 5   | 1.147              | 17.33             | 15.91            | 33.24              | 66.25             | 33.01          | Peak        |
| 6   | 1.249              | 17.54             | 15.45            | 32.99              | 65.50             | 32.51          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note:  
RBW:300Hz VBW:1kHz

Serial No.: 325N-1  
Tester: Zoo Zou

Date: 2025-05-12

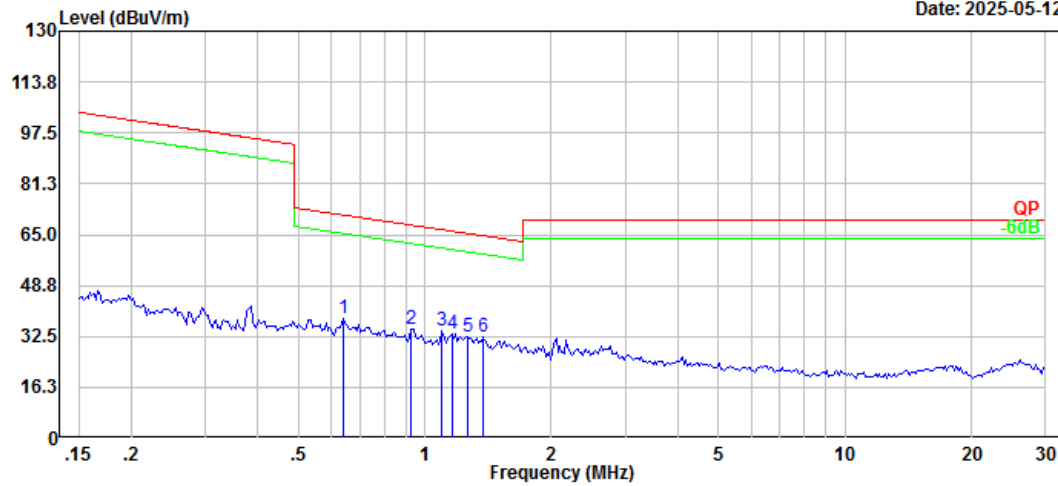


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.051              | -2.26             | 43.88            | 41.62              | 113.45            | 71.83          | Peak        |
| 2   | 0.067              | -3.32             | 41.20            | 37.88              | 111.14            | 73.26          | Peak        |
| 3   | 0.077              | -2.90             | 39.38            | 36.48              | 109.85            | 73.37          | Peak        |
| 4   | 0.082              | -2.79             | 38.61            | 35.82              | 109.35            | 73.53          | Peak        |
| 5   | 0.088              | -2.09             | 37.55            | 35.46              | 108.75            | 73.29          | Peak        |
| 6   | 0.128              | 36.34             | 33.85            | 70.19              | 105.46            | 35.27          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note:  
RBW:10kHz VBW:30kHz

Serial No.: 325N-1  
Tester: Zoo Zou

Date: 2025-05-12



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.641              | 16.20             | 22.06            | 38.26              | 71.42             | 33.16          | Peak        |
| 2   | 0.928              | 17.02             | 18.00            | 35.02              | 68.13             | 33.11          | Peak        |
| 3   | 1.100              | 18.02             | 16.12            | 34.14              | 66.63             | 32.49          | Peak        |
| 4   | 1.160              | 17.73             | 15.85            | 33.58              | 66.16             | 32.58          | Peak        |
| 5   | 1.262              | 16.95             | 15.40            | 32.35              | 65.41             | 33.06          | Peak        |
| 6   | 1.374              | 17.40             | 14.90            | 32.30              | 64.65             | 32.35          | Peak        |

**Model: WAB13W012B**

Project No.: 2502S56505E-RF

Serial No.: 325N-2

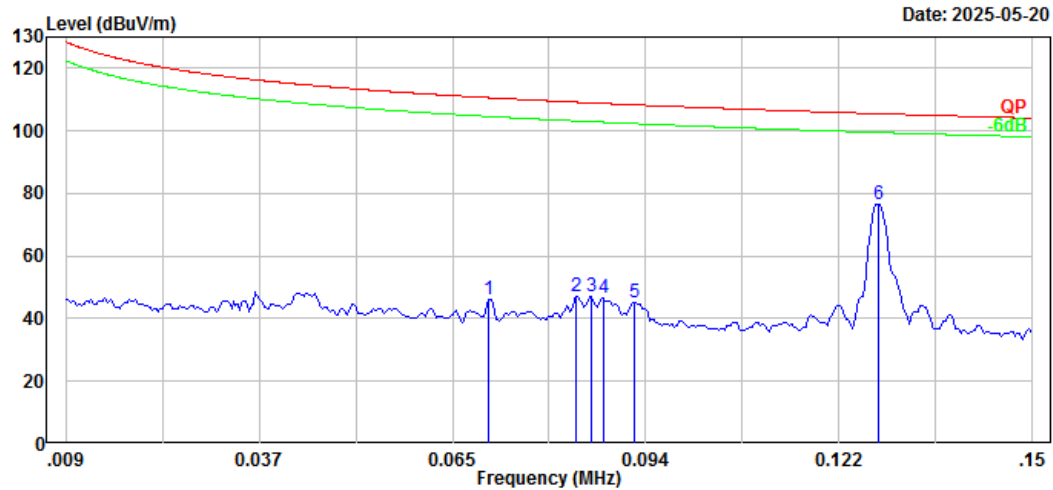
Polarization: Parallel

Tester: Zoo Zou

Test Mode: Transmitting

Note:

RBW:300Hz VBW:1kHz

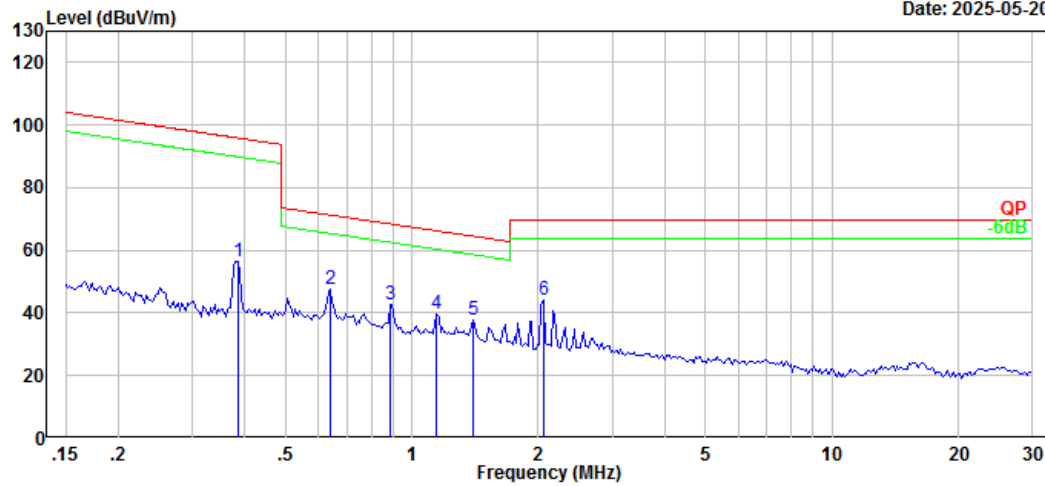


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.071              | 5.45              | 40.46            | 45.91              | 110.61            | 64.70          | Peak        |
| 2   | 0.083              | 8.79              | 38.31            | 47.10              | 109.18            | 62.08          | Peak        |
| 3   | 0.086              | 9.08              | 37.90            | 46.98              | 108.94            | 61.96          | Peak        |
| 4   | 0.087              | 8.88              | 37.61            | 46.49              | 108.77            | 62.28          | Peak        |
| 5   | 0.092              | 8.56              | 36.81            | 45.37              | 108.34            | 62.97          | Peak        |
| 6   | 0.127              | 42.76             | 33.89            | 76.65              | 105.50            | 28.85          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Parallel  
Test Mode: Transmitting  
Note:  
RBW:10kHz VBW:30kHz

Serial No.: 325N-2  
Tester: Zoo Zou

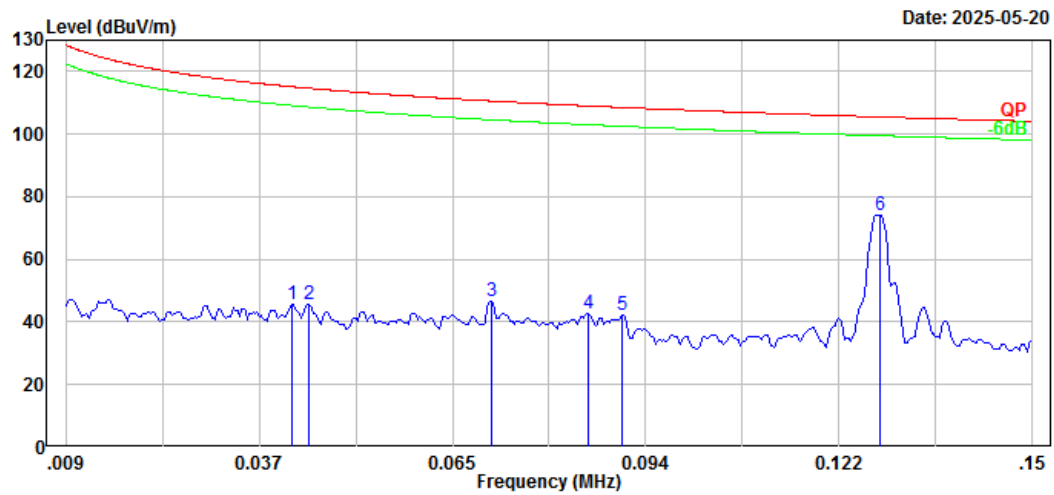
Date: 2025-05-20



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.385              | 32.72             | 23.84            | 56.56              | 95.89             | 39.33          | Peak        |
| 2   | 0.641              | 25.60             | 22.06            | 47.66              | 71.42             | 23.76          | Peak        |
| 3   | 0.890              | 24.08             | 18.77            | 42.85              | 68.51             | 25.66          | Peak        |
| 4   | 1.147              | 23.60             | 15.91            | 39.51              | 66.25             | 26.74          | Peak        |
| 5   | 1.403              | 22.88             | 14.77            | 37.65              | 64.47             | 26.82          | Peak        |
| 6   | 2.055              | 31.95             | 11.99            | 43.94              | 69.54             | 25.60          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note:  
RBW:300Hz VBW:1kHz

Serial No.: 325N-2  
Tester: Zoo Zou

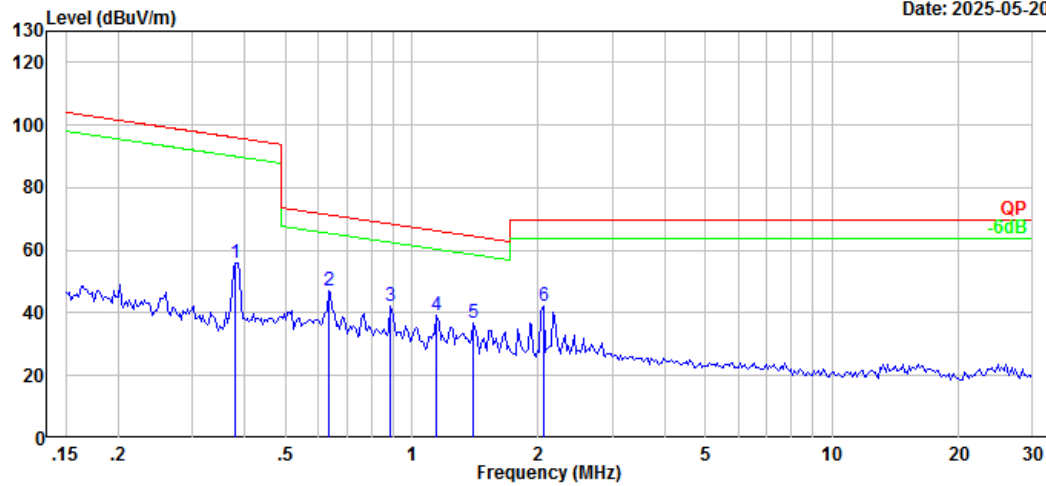


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.042              | 0.11              | 45.42            | 45.53              | 115.14            | 69.61          | Peak        |
| 2   | 0.045              | 0.54              | 44.99            | 45.53              | 114.63            | 69.10          | Peak        |
| 3   | 0.071              | 5.99              | 40.41            | 46.40              | 110.57            | 64.17          | Peak        |
| 4   | 0.085              | 4.47              | 38.00            | 42.47              | 109.00            | 66.53          | Peak        |
| 5   | 0.090              | 4.85              | 37.10            | 41.95              | 108.50            | 66.55          | Peak        |
| 6   | 0.128              | 40.35             | 33.87            | 74.22              | 105.48            | 31.26          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note:  
RBW:10kHz VBW:30kHz

Serial No.: 325N-2  
Tester: Zoo Zou

Date: 2025-05-20



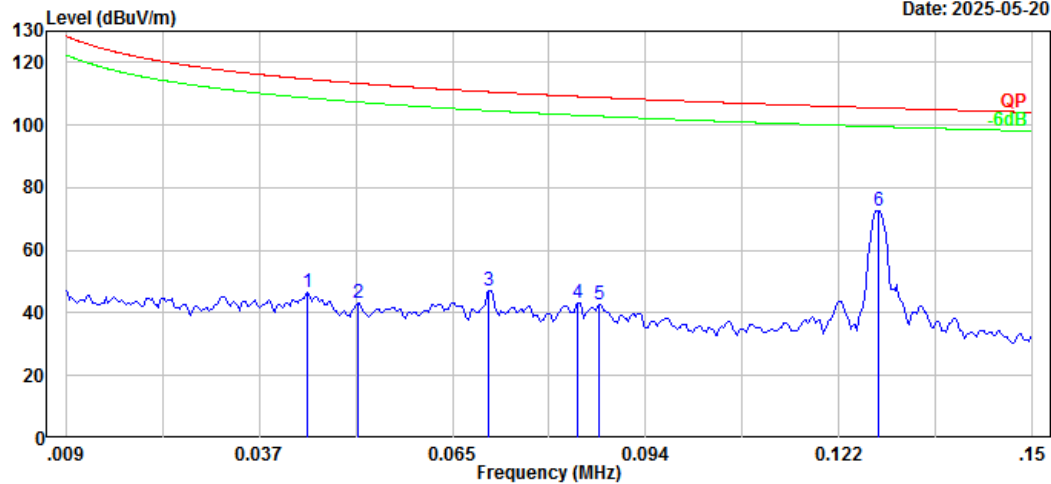
| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.381              | 31.83             | 23.87            | 55.70              | 95.98             | 40.28          | Peak        |
| 2   | 0.634              | 24.75             | 22.13            | 46.88              | 71.52             | 24.64          | Peak        |
| 3   | 0.890              | 23.21             | 18.77            | 41.98              | 68.51             | 26.53          | Peak        |
| 4   | 1.147              | 23.10             | 15.91            | 39.01              | 66.26             | 27.25          | Peak        |
| 5   | 1.403              | 21.79             | 14.77            | 36.56              | 64.47             | 27.91          | Peak        |
| 6   | 2.055              | 30.01             | 11.99            | 42.00              | 69.54             | 27.54          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note:

RBW:300Hz VBW:1kHz

Serial No.: 325N-2  
Tester: Zoo Zou

Date: 2025-05-20

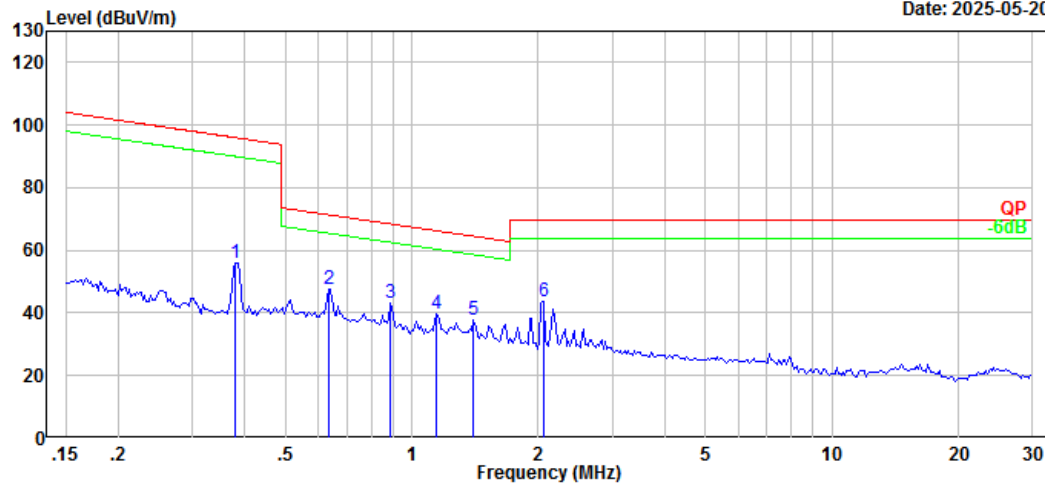


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.044              | 1.61              | 45.04            | 46.65              | 114.69            | 68.04          | Peak        |
| 2   | 0.052              | -0.58             | 43.78            | 43.20              | 113.35            | 70.15          | Peak        |
| 3   | 0.071              | 6.83              | 40.46            | 47.29              | 110.61            | 63.32          | Peak        |
| 4   | 0.084              | 5.13              | 38.26            | 43.39              | 109.15            | 65.76          | Peak        |
| 5   | 0.087              | 4.92              | 37.70            | 42.62              | 108.83            | 66.21          | Peak        |
| 6   | 0.127              | 38.77             | 33.89            | 72.66              | 105.50            | 32.84          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note:  
RBW:10kHz VBW:30kHz

Serial No.: 325N-2  
Tester: Zoo Zou

Date: 2025-05-20



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.381              | 31.83             | 23.87            | 55.70              | 95.98             | 40.28          | Peak        |
| 2   | 0.634              | 25.45             | 22.13            | 47.58              | 71.52             | 23.94          | Peak        |
| 3   | 0.890              | 24.35             | 18.77            | 43.12              | 68.51             | 25.39          | Peak        |
| 4   | 1.147              | 23.87             | 15.91            | 39.78              | 66.26             | 26.48          | Peak        |
| 5   | 1.403              | 22.81             | 14.77            | 37.58              | 64.47             | 26.89          | Peak        |
| 6   | 2.055              | 31.82             | 11.99            | 43.81              | 69.54             | 25.73          | Peak        |

**Model: WAB13W013B**

Project No.: 2502S56505E-RF

Serial No.: 325N-3

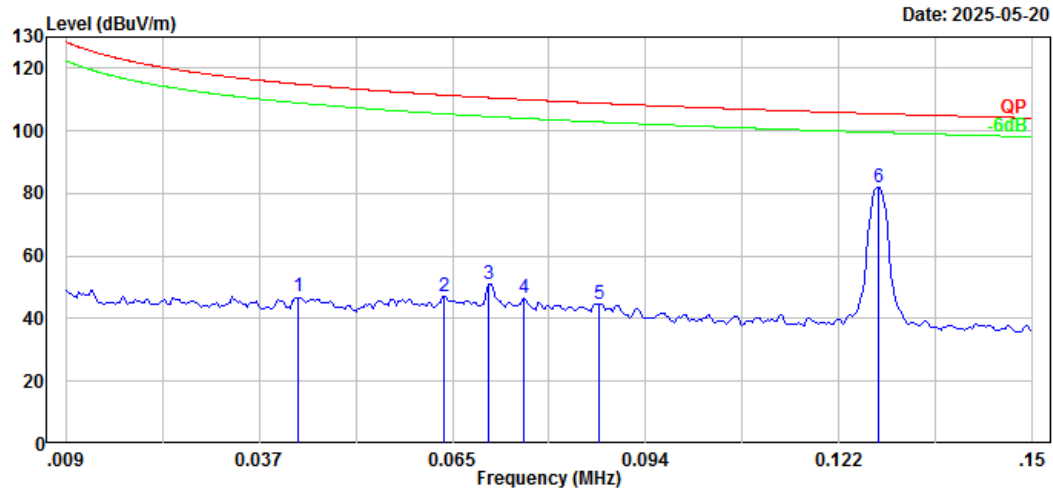
Polarization: Parallel

Tester: Zoo Zou

Test Mode: Transmitting

Note:

RBW:300Hz VBW:1kHz

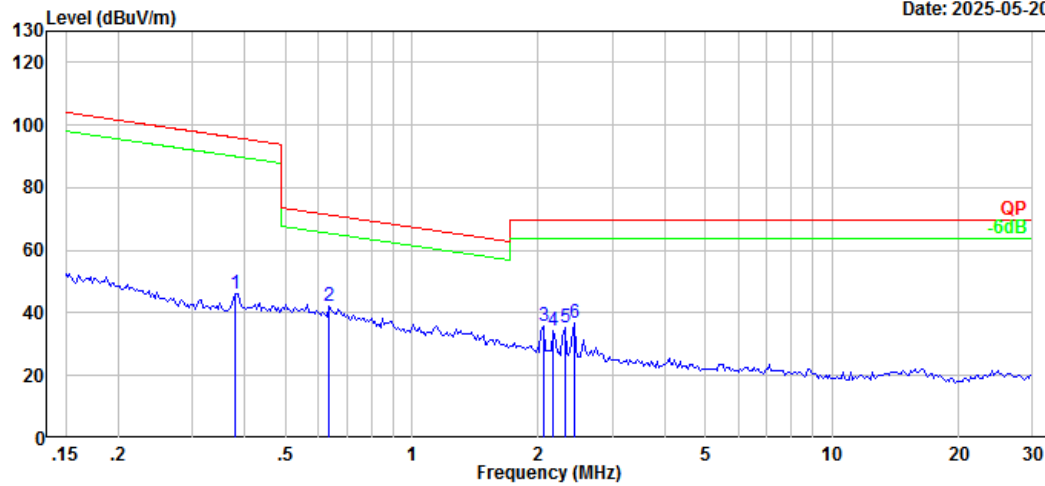


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.043              | 1.56              | 45.29            | 46.85              | 114.97            | 68.12          | Peak        |
| 2   | 0.064              | 5.50              | 41.59            | 47.09              | 111.44            | 64.35          | Peak        |
| 3   | 0.071              | 10.49             | 40.46            | 50.95              | 110.61            | 59.66          | Peak        |
| 4   | 0.076              | 6.99              | 39.62            | 46.61              | 110.01            | 63.40          | Peak        |
| 5   | 0.087              | 7.10              | 37.70            | 44.80              | 108.83            | 64.03          | Peak        |
| 6   | 0.127              | 47.90             | 33.89            | 81.79              | 105.50            | 23.71          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Parallel  
Test Mode: Transmitting  
Note:  
RBW:10kHz VBW:30kHz

Serial No.: 325N-3  
Tester: Zoo Zou

Date: 2025-05-20

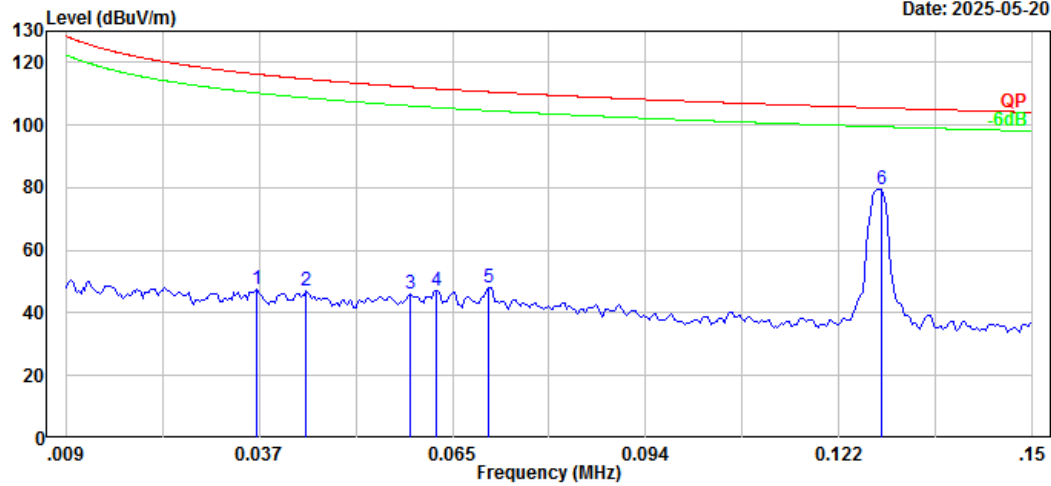


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.381              | 22.38             | 23.87            | 46.25              | 95.98             | 49.73          | Peak        |
| 2   | 0.634              | 20.11             | 22.13            | 42.24              | 71.52             | 29.28          | Peak        |
| 3   | 2.055              | 23.78             | 11.99            | 35.77              | 69.54             | 33.77          | Peak        |
| 4   | 2.167              | 22.45             | 11.74            | 34.19              | 69.54             | 35.35          | Peak        |
| 5   | 2.309              | 24.03             | 11.42            | 35.45              | 69.54             | 34.09          | Peak        |
| 6   | 2.435              | 25.44             | 11.13            | 36.57              | 69.54             | 32.97          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note:  
RBW:300Hz VBW:1kHz

Serial No.: 325N-3  
Tester: Zoo Zou

Date: 2025-05-20

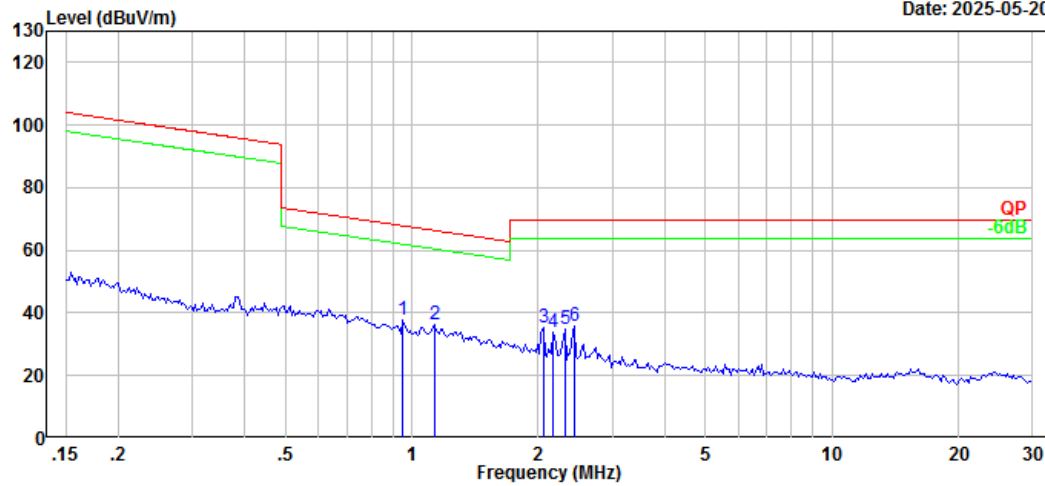


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.037              | 1.10              | 46.32            | 47.42              | 116.26            | 68.84          | Peak        |
| 2   | 0.044              | 1.76              | 45.09            | 46.85              | 114.74            | 67.89          | Peak        |
| 3   | 0.059              | 3.54              | 42.48            | 46.02              | 112.16            | 66.14          | Peak        |
| 4   | 0.063              | 5.50              | 41.79            | 47.29              | 111.60            | 64.31          | Peak        |
| 5   | 0.071              | 7.66              | 40.46            | 48.12              | 110.61            | 62.49          | Peak        |
| 6   | 0.128              | 45.76             | 33.85            | 79.61              | 105.46            | 25.85          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note:  
RBW:10kHz VBW:30kHz

Serial No.: 325N-3  
Tester: Zoo Zou

Date: 2025-05-20



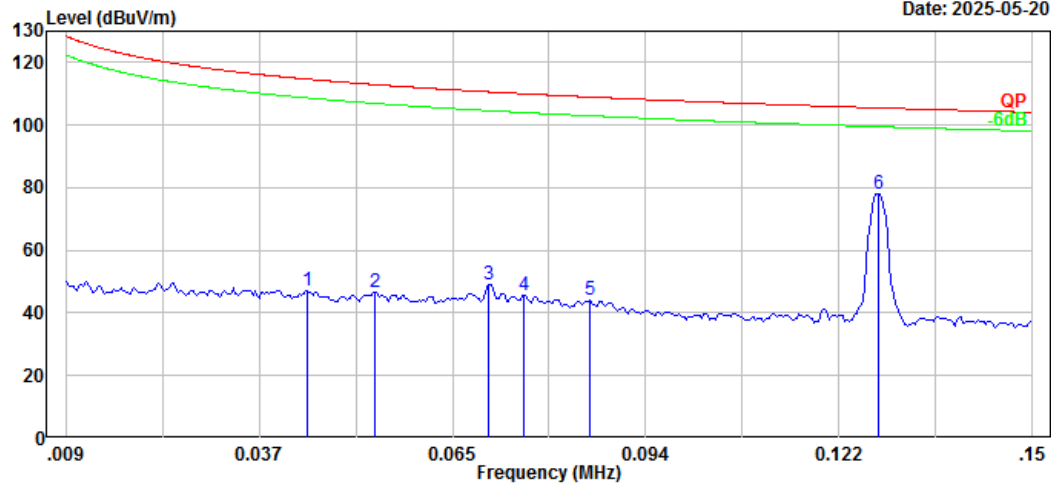
| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.948              | 20.21             | 17.60            | 37.81              | 67.95             | 30.14          | Peak        |
| 2   | 1.135              | 20.26             | 15.96            | 36.22              | 66.35             | 30.13          | Peak        |
| 3   | 2.055              | 23.29             | 11.99            | 35.28              | 69.54             | 34.26          | Peak        |
| 4   | 2.167              | 22.16             | 11.74            | 33.90              | 69.54             | 35.64          | Peak        |
| 5   | 2.309              | 23.60             | 11.42            | 35.02              | 69.54             | 34.52          | Peak        |
| 6   | 2.435              | 24.90             | 11.13            | 36.03              | 69.54             | 33.51          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note:

RBW:300Hz VBW:1kHz

Serial No.: 325N-3  
Tester: Zoo Zou

Date: 2025-05-20

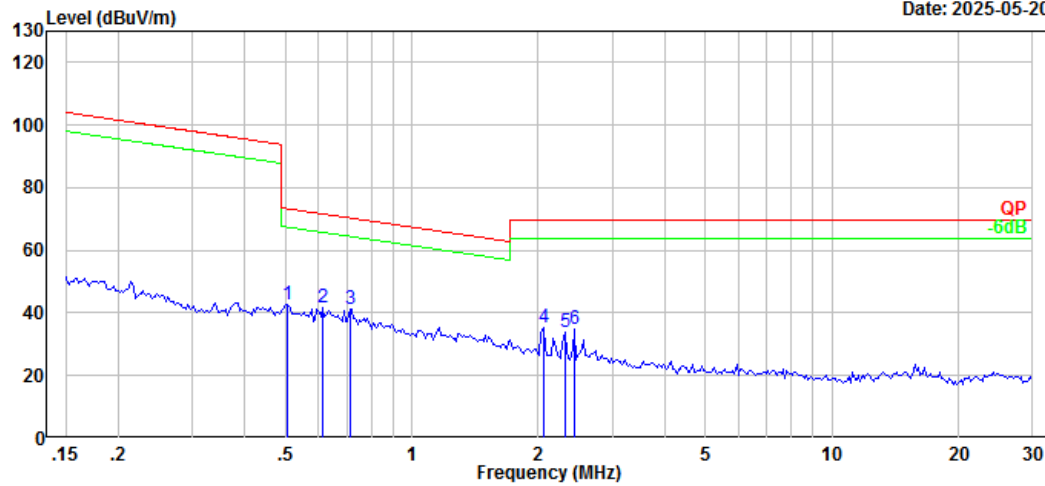


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.044              | 2.10              | 45.04            | 47.14              | 114.69            | 67.55          | Peak        |
| 2   | 0.054              | 3.38              | 43.35            | 46.73              | 112.94            | 66.21          | Peak        |
| 3   | 0.071              | 8.42              | 40.46            | 48.88              | 110.61            | 61.73          | Peak        |
| 4   | 0.076              | 6.17              | 39.62            | 45.79              | 110.01            | 64.22          | Peak        |
| 5   | 0.085              | 5.99              | 37.95            | 43.94              | 108.97            | 65.03          | Peak        |
| 6   | 0.127              | 44.13             | 33.89            | 78.02              | 105.50            | 27.48          | Peak        |

Project No.: 2502S56505E-RF  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note:  
RBW:10kHz VBW:30kHz

Serial No.: 325N-3  
Tester: Zoo Zou

Date: 2025-05-20



| No. | Frequency<br>(MHz) | Reading<br>(dBUV) | Factor<br>(dB/m) | Result<br>(dBUV/m) | Limit<br>(dBUV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.507              | 19.45             | 23.45            | 42.90              | 73.49             | 30.59          | Peak        |
| 2   | 0.614              | 19.61             | 22.32            | 41.93              | 71.80             | 29.87          | Peak        |
| 3   | 0.712              | 20.09             | 21.36            | 41.45              | 70.48             | 29.03          | Peak        |
| 4   | 2.055              | 23.37             | 11.99            | 35.36              | 69.54             | 34.18          | Peak        |
| 5   | 2.309              | 22.48             | 11.42            | 33.90              | 69.54             | 35.64          | Peak        |
| 6   | 2.435              | 23.55             | 11.13            | 34.68              | 69.54             | 34.86          | Peak        |

**2) 30MHz-1GHz  
Model: WAB13W027B**

Project No.: 2502S56505E-RF

Serial No.: 325N-1

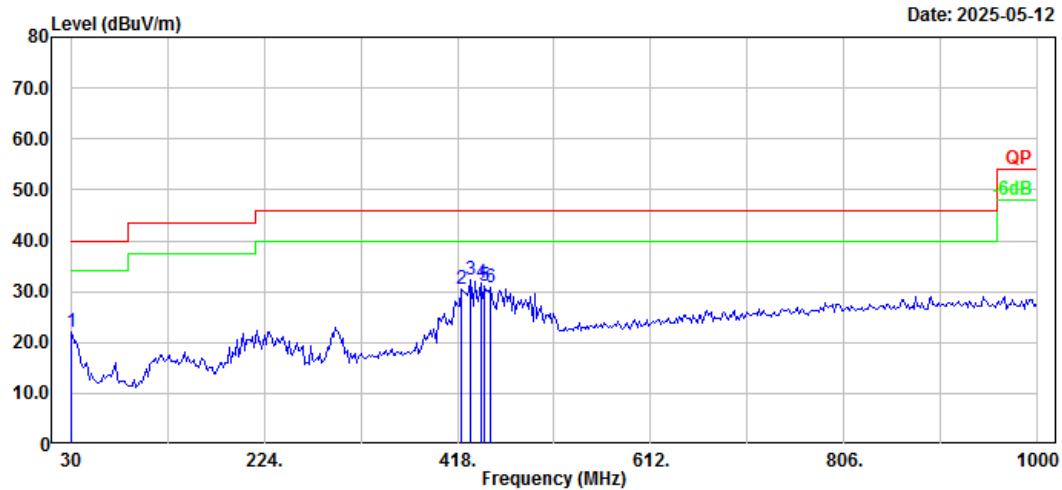
Polarization: Horizontal

Tester: Zoo Zou

Test Mode: Transmitting

Note:

RBW:100kHz VBW:300kHz



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 30.00              | 25.82             | -3.80            | 22.02              | 40.00             | 17.98          | Peak        |
| 2   | 421.88             | 36.82             | -6.43            | 30.39              | 46.00             | 15.61          | Peak        |
| 3   | 431.58             | 38.54             | -6.10            | 32.44              | 46.00             | 13.56          | Peak        |
| 4   | 441.28             | 37.35             | -5.78            | 31.57              | 46.00             | 14.43          | Peak        |
| 5   | 445.16             | 36.82             | -5.65            | 31.17              | 46.00             | 14.83          | Peak        |
| 6   | 450.98             | 36.33             | -5.45            | 30.88              | 46.00             | 15.12          | Peak        |

Project No.: 2502S56505E-RF

Serial No.: 325N-1

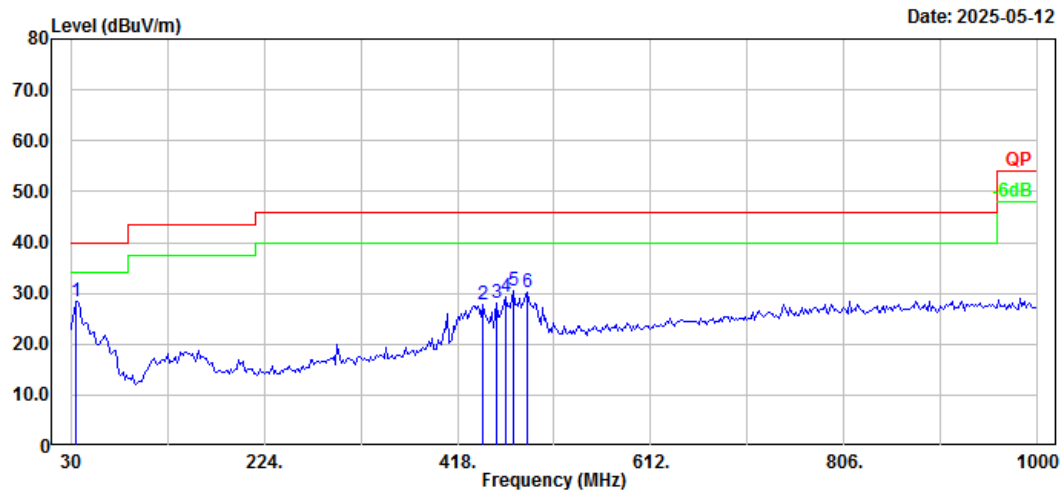
Polarization: Vertical

Tester: Zoo Zou

Test Mode: Transmitting

Note:

RBW:100kHz VBW:300kHz



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 35.82              | 36.34             | -8.01            | 28.33              | 40.00             | 11.67          | Peak        |
| 2   | 443.22             | 33.34             | -5.70            | 27.64              | 46.00             | 18.36          | Peak        |
| 3   | 456.80             | 33.22             | -5.25            | 27.97              | 46.00             | 18.03          | Peak        |
| 4   | 466.50             | 34.36             | -4.99            | 29.37              | 46.00             | 16.63          | Peak        |
| 5   | 474.26             | 35.28             | -4.84            | 30.44              | 46.00             | 15.56          | Peak        |
| 6   | 487.84             | 34.86             | -4.54            | 30.32              | 46.00             | 15.68          | Peak        |

**Model: WAB13W012B**

Project No.: 2502S56505E-RF

Serial No.: 325N-2

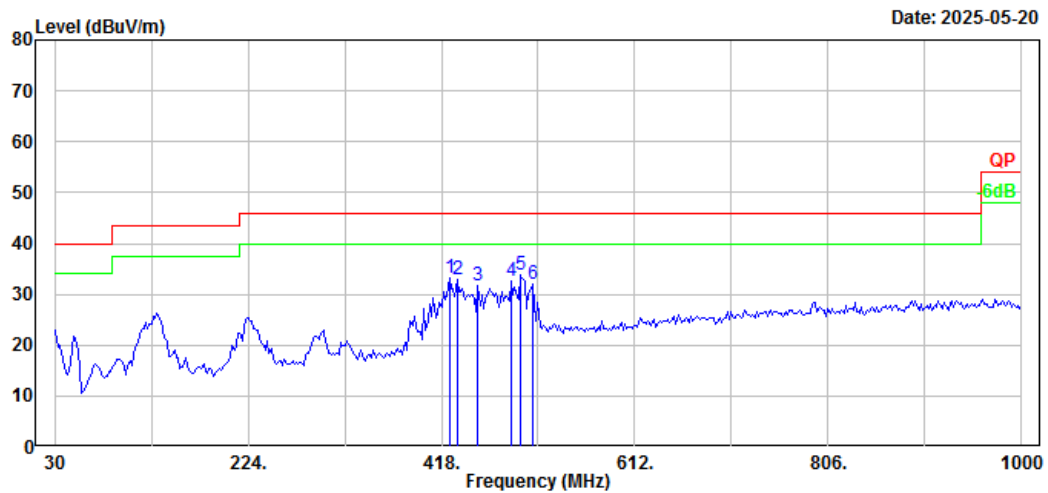
Polarization: Horizontal

Tester: Zoo Zou

Test Mode: Transmitting

Note:

RBW:100kHz VBW:300kHz



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 425.76             | 39.49             | -6.30            | 33.19              | 46.00             | 12.81          | Peak        |
| 2   | 433.52             | 38.92             | -6.04            | 32.88              | 46.00             | 13.12          | Peak        |
| 3   | 454.86             | 37.13             | -5.31            | 31.82              | 46.00             | 14.18          | Peak        |
| 4   | 487.84             | 37.20             | -4.54            | 32.66              | 46.00             | 13.34          | Peak        |
| 5   | 497.54             | 38.02             | -4.34            | 33.68              | 46.00             | 12.32          | Peak        |
| 6   | 509.18             | 36.17             | -4.13            | 32.04              | 46.00             | 13.96          | Peak        |

Project No.: 2502S56505E-RF

Serial No.: 325N-2

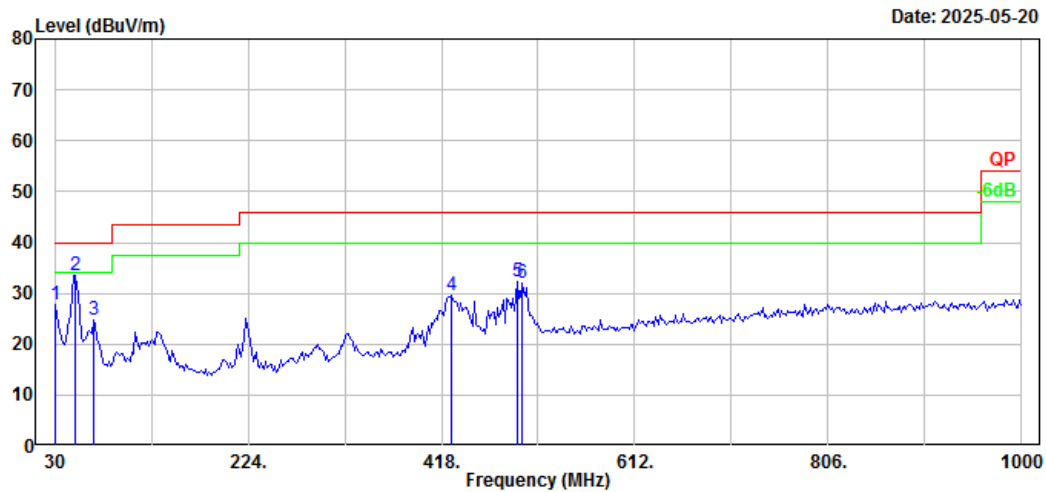
Polarization: Vertical

Tester: Zoo Zou

Test Mode: Transmitting

Note:

RBW:100kHz VBW:300kHz



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 30.00              | 31.71             | -3.80            | 27.91              | 40.00             | 12.09          | Peak        |
| 2   | 51.34              | 50.02             | -16.49           | 33.53              | 40.00             | 6.47           | Peak        |
| 3   | 68.80              | 41.16             | -16.33           | 24.83              | 40.00             | 15.17          | Peak        |
| 4   | 427.70             | 35.88             | -6.23            | 29.65              | 46.00             | 16.35          | Peak        |
| 5   | 493.66             | 36.71             | -4.42            | 32.29              | 46.00             | 13.71          | Peak        |
| 6   | 499.48             | 36.27             | -4.29            | 31.98              | 46.00             | 14.02          | Peak        |

**Model: WAB13W013B**

Project No.: 2502S56505E-RF

Serial No.: 325N-3

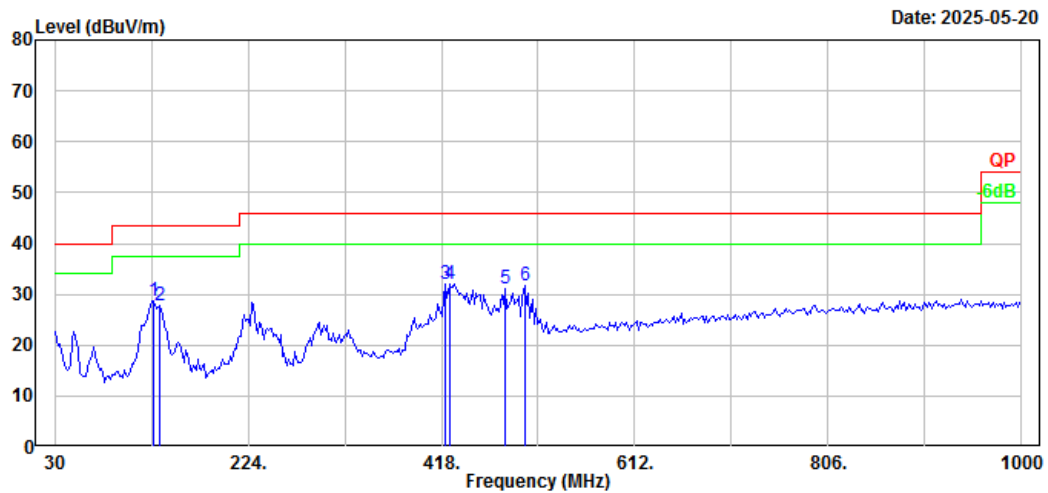
Polarization: Horizontal

Tester: Zoo Zou

Test Mode: Transmitting

Note:

RBW:100kHz VBW:300kHz



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 128.94             | 38.46             | -9.86            | 28.60              | 43.50             | 14.90          | Peak        |
| 2   | 134.76             | 37.95             | -10.14           | 27.81              | 43.50             | 15.69          | Peak        |
| 3   | 421.88             | 38.38             | -6.43            | 31.95              | 46.00             | 14.05          | Peak        |
| 4   | 425.76             | 38.41             | -6.30            | 32.11              | 46.00             | 13.89          | Peak        |
| 5   | 482.02             | 35.65             | -4.66            | 30.99              | 46.00             | 15.01          | Peak        |
| 6   | 501.42             | 35.85             | -4.26            | 31.59              | 46.00             | 14.41          | Peak        |

Project No.: 2502S56505E-RF

Serial No.: 325N-3

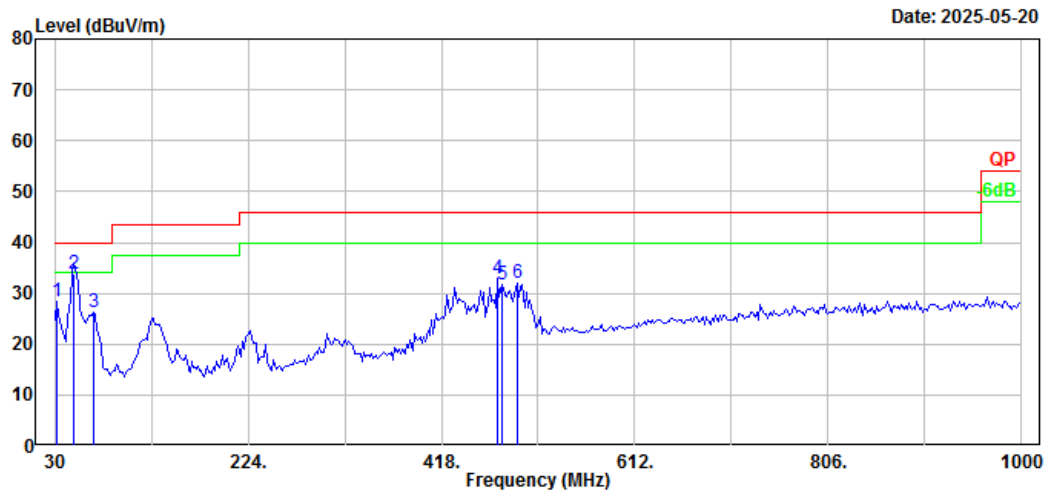
Polarization: Vertical

Tester: Zoo Zou

Test Mode: Transmitting

Note:

RBW:100kHz VBW:300kHz



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 31.94              | 33.70             | -5.21            | 28.49              | 40.00             | 11.51          | Peak        |
| 2   | 49.40              | 50.10             | -16.14           | 33.96              | 40.00             | 6.04           | QP          |
| 3   | 68.80              | 42.66             | -16.33           | 26.33              | 40.00             | 13.67          | Peak        |
| 4   | 474.26             | 37.81             | -4.84            | 32.97              | 46.00             | 13.03          | Peak        |
| 5   | 478.14             | 36.43             | -4.75            | 31.68              | 46.00             | 14.32          | Peak        |
| 6   | 493.66             | 36.34             | -4.42            | 31.92              | 46.00             | 14.08          | Peak        |

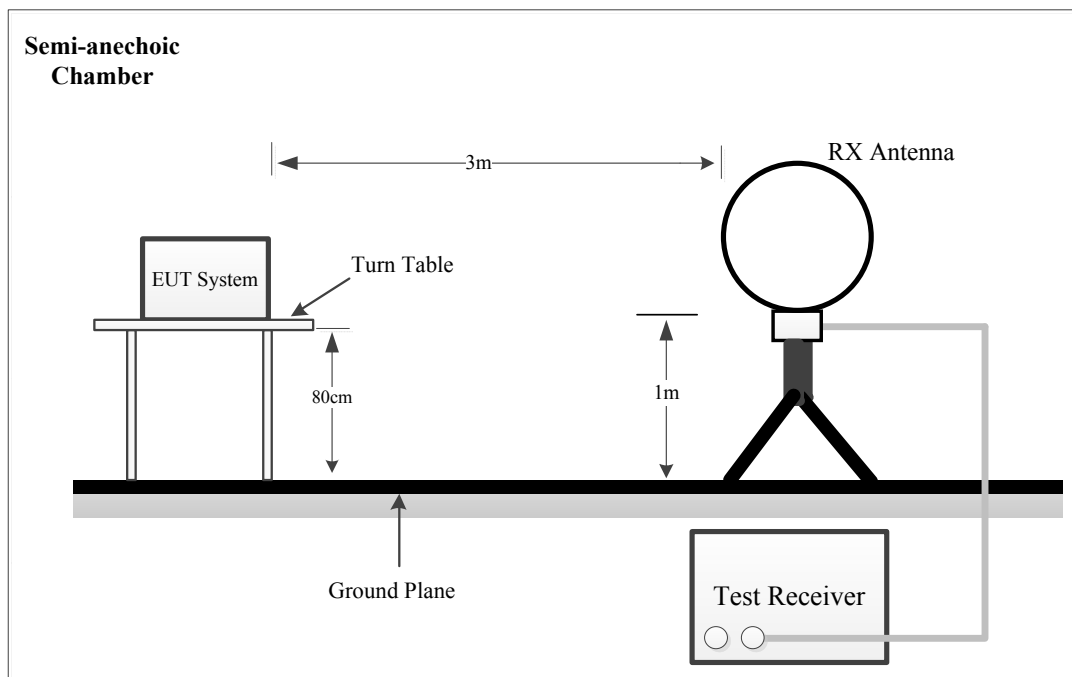
### 4.3 20 dB Emission Bandwidth

#### 4.3.1 Applicable Standard

FCC §15.215

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. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of band operation.

#### 4.3.2 EUT Setup



#### 4.3.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.2

- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- 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. Specific guidance is given in 4.1.5.2
- Steps a) through c) might require iteration to adjust within the specified tolerances.
- The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target

“-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.

f) Set detection mode to peak and trace mode to max hold.

g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

h) Determine the “-xx dB down amplitude” using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.

i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

**4.3.4 Test Data**

|                |                        |              |                     |
|----------------|------------------------|--------------|---------------------|
| Serial Number: | 325N-1, 325N-2, 325N-3 | Test Date:   | 2025/5/13~2025/5/20 |
| Test Site:     | Chamber10m             | Test Mode:   | Transmitting        |
| Tester:        | Zoo Zou                | Test Result: | Pass                |

**Environmental Conditions:**

|                      |           |                           |       |                           |             |
|----------------------|-----------|---------------------------|-------|---------------------------|-------------|
| Temperature:<br>(°C) | 25.4~25.8 | Relative Humidity:<br>(%) | 43~47 | ATM<br>Pressure:<br>(kPa) | 100.9~101.2 |
|----------------------|-----------|---------------------------|-------|---------------------------|-------------|

**Test Equipment List and Details:**

| Manufacturer | Description          | Model     | Serial Number | Calibration Date | Calibration Due Date |
|--------------|----------------------|-----------|---------------|------------------|----------------------|
| EMCO         | Passive Loop Antenna | 6512      | 9706-1206     | 2023/10/25       | 2026/10/24           |
| Unknown      | Coaxial Cable        | C-NJNJ-50 | C-1000-01     | 2024/7/1         | 2025/6/30            |
| Unknown      | Coaxial Cable        | C-NJNJ-50 | C-0400-04     | 2024/7/1         | 2025/6/30            |
| Unknown      | Coaxial Cable        | C-NJNJ-50 | C-0530-01     | 2024/7/1         | 2025/6/30            |
| Sonoma       | Amplifier            | 310N      | 185914        | 2024/8/26        | 2025/8/25            |
| R&S          | EMI Test Receiver    | ESCI      | 100224        | 2024/8/26        | 2025/8/25            |

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

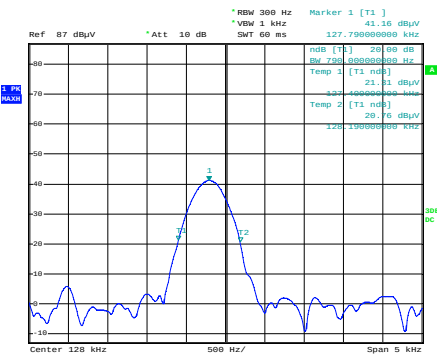
**Test Data:**

The test used DC 12V voltage.

Test under the maximum power.

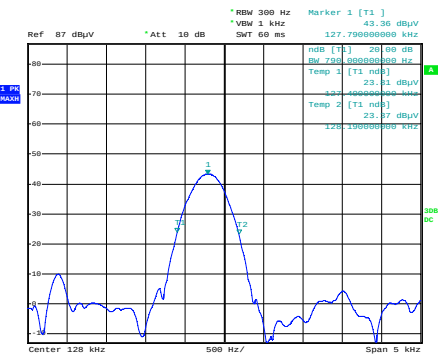
| Model      | Test Frequency<br>(kHz) | 20 dB Emission Bandwidth<br>(kHz) |
|------------|-------------------------|-----------------------------------|
| WAB13W027B | 127.80                  | 0.79                              |
| WAB13W012B | 127.79                  | 0.79                              |
| WAB13W013B | 127.79                  | 0.78                              |

20dB Emission Bandwidth\_ WAB13W027B



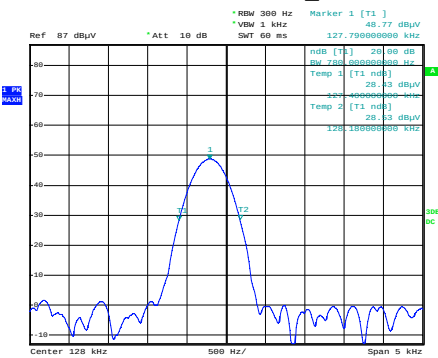
ProjectNo.:2502S56505E-RF Tester:Zoo Zou  
Date: 13.MAY.2025 00:50:09

20dB Emission Bandwidth\_ WAB13W012B



ProjectNo.:2502S56505E-RF Tester:Zoo Zou  
Date: 20.MAY.2025 21:22:00

20dB Emission Bandwidth\_ WAB13W013B



ProjectNo.:2502S56505E-RF Tester:Zoo Zou  
Date: 20.MAY.2025 22:11:22

## **4.5 Antenna Requirement**

### **4.5.1 Applicable Standard**

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. 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.

### **4.5.2 Judgment**

Please refer to the Antenna Information detail in Section 1.3.

## **EXHIBIT A - EUT PHOTOGRAPHS**

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Please refer to the attachment 2502S56505E-RF-EXP EUT external photographs and 2502S56505E-RF-INP EUT internal photographs.

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## **EXHIBIT B - TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment 2502S56505E-RF-00A-TSP test setup photographs.

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