

## TEST REPORT

**Applicant:** Fitnexa Inc.

**Address:** 2445 Augustine Drive, Suites 150 & 201, Santa Clara, CA 95054,  
USA

**Product Name:** Fitnexa SomniPods 3

**FCC ID:** 2BROC-A4301R

**IC:** 34525-A4301R

**HVIN:** A4301R

**Standard(s):** 47 CFR Part 15, Subpart C(15.247)  
RSS-247 Issue 3, August 2023  
RSS-Gen, Issue 5, February 2021 Amendment 2  
ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to  
C63.10a-2024\*  
KDB 558074 D01 15.247 Meas Guidance v05r02

**Report Number:** 2502W73519E-RF-00B

**Report Date:** 2025/9/25

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

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 1.0             | 2502W73519E-RF-00B | Original Report         | 2025/9/25        |

# 1. GENERAL INFORMATION

## 1.1 General Description of Equipment under Test

|                                        |                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------|
| EUT Name:                              | Fitnexa SomniPods 3                                                             |
| EUT Model:                             | A4301                                                                           |
| Operation Frequency:                   | 2402-2480 MHz                                                                   |
| Maximum Peak Output Power (Conducted): | 4.46dBm                                                                         |
| Modulation Type:                       | GFSK, $\pi/4$ -DQPSK, 8DPSK                                                     |
| Rated Input Voltage:                   | DC 3.85V from battery                                                           |
| Serial Number:                         | 38D1-1 (for RF Conducted Test)<br>38D1-2 (for Radiated Spurious Emissions Test) |
| EUT Received Date:                     | 2025/8/8                                                                        |
| EUT Received Status:                   | Good                                                                            |

## 1.2 Accessory Information

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

## 1.3 Antenna Information Detail▲

| Antenna Type                                                                                                                                                                                                                                                                                                                                                                                    | input impedance (Ohm) | Frequency Range | Antenna Gain |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|--------------|
| LDS                                                                                                                                                                                                                                                                                                                                                                                             | 50                    | 2.4~2.48GHz     | -8.49dBi     |
| The design of compliance with §15.203:                                                                                                                                                                                                                                                                                                                                                          |                       |                 |              |
| <div><div><input checked="" type="checkbox"/></div>Unit uses a permanently attached antenna.</div> <div><div><input type="checkbox"/></div>Unit uses a unique coupling to the intentional radiator.</div> <div><div><input type="checkbox"/></div>Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.</div> |                       |                 |              |

## 1.4 Equipment Modifications

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

## 2. SUMMARY OF TEST RESULTS

| Standard(s) Section                                                                                                                                                                                | Description of Test                                        | Result         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------|
| FCC §15.207(a)<br>RSS-Gen Clause 8.8                                                                                                                                                               | AC Line Conducted Emissions                                | Not Applicable |
| FCC §15.205, §15.209, §15.247(d)<br>RSS-Gen Clause 8.10<br>RSS-247 Clause 5.5                                                                                                                      | Radiated Spurious Emissions                                | Compliant      |
| FCC §15.247(a)(1)<br>RSS-247 Clause 5.1 b)                                                                                                                                                         | 20 dB Emission Bandwidth                                   | Compliant      |
| RSS-Gen Clause 6.7                                                                                                                                                                                 | 99% Occupied Bandwidth                                     | Compliant      |
| FCC §15.247(a)(1)<br>RSS-247 Clause 5.1 b)                                                                                                                                                         | Channel Separation                                         | Compliant      |
| FCC §15.247(a)(1)(iii)<br>RSS-247 Clause 5.1 d)                                                                                                                                                    | Number Of Hopping Frequency                                | Compliant      |
| FCC §15.247(a)(1)(iii)<br>RSS-247 Clause 5.1 d)                                                                                                                                                    | Time Of Occupancy (Dwell Time)                             | Compliant      |
| FCC §15.247(b)(1)<br>RSS-247 Clause 5.4 b)                                                                                                                                                         | Maximum Conducted Output Power                             | Compliant      |
| FCC §15.247(d)<br>RSS-247 Clause 5.5                                                                                                                                                               | Conducted Spurious Emission                                | Compliant      |
| FCC §15.203<br>RSS-Gen Clause 6.8                                                                                                                                                                  | Antenna Requirement                                        | Compliant      |
| §15.247 (i) & §1.1310 &<br>§2.1093                                                                                                                                                                 | SAR Evaluation                                             | Compliant      |
| RSS-102 Clause 6.3                                                                                                                                                                                 | Exemption Limits For Routine Evaluation- SAR<br>Evaluation | Compliant      |
| Note 1: Not Applicable: The device was powered by battery when operating.<br>Note 2: For Radiated Spurious Emissions 9kHz~1GHz and 18~25GHz, the maximum output power mode and channel was tested. |                                                            |                |

### 3. DESCRIPTION OF TEST CONFIGURATION

#### 3.1 Operation Frequency Detail

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 0       | <b>2402</b>     | 40      | 2442            |
| 1       | 2403            | 41      | 2443            |
| ...     | ...             | ...     | ...             |
| ...     | ...             | ...     | ...             |
| ...     | ...             | 78      | <b>2480</b>     |
| 39      | <b>2441</b>     | /       | /               |

Note: The above frequencies in bold were performed the test.

#### 3.2 EUT Operation Condition

The EUT was configured for testing in Engineering Mode, which was provided by the manufacturer. The EUT configuration as below:

|                                                                                                                                 |                     |                |                 |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|-----------------|
| <b>EUT Exercise Software:</b>                                                                                                   | BT_Tool V1.0.9      |                |                 |
| The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲ : |                     |                |                 |
| Test Modes                                                                                                                      | Power Level Setting |                |                 |
|                                                                                                                                 | Lowest Channel      | Middle Channel | Highest Channel |
| GFSK(BDR)                                                                                                                       | 7                   | 7              | 7               |
| $\pi/4$ -DQPSK(2EDR)                                                                                                            | 7                   | 7              | 7               |
| 8DPSK(3EDR)                                                                                                                     | 7                   | 7              | 7               |

#### 3.3 Support Equipment List and Details

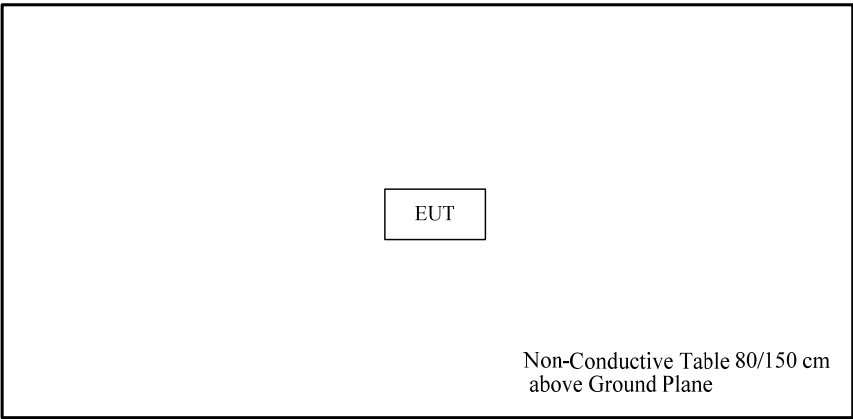
| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| /            | /           | /     | /             |

#### 3.4 Support Cable List and Details

| Cable Description | Shielding Type | Ferrite Core | Length (m) | From Port | To |
|-------------------|----------------|--------------|------------|-----------|----|
| /                 | /              | /            | /          | /         | /  |

3.5 Block Diagram of Test Setup

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 °C                                                                                                                                                 |
| 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 PROCEDURES

### 4.1 AC Line Conducted Emissions

#### 4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN).

Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency of emission (MHz) | Conducted limit (dB $\mu$ V) |           |
|-----------------------------|------------------------------|-----------|
|                             | Quasi-peak                   | Average   |
| 0.15-0.5                    | 66 to 56*                    | 56 to 46* |
| 0.5-5                       | 56                           | 46        |
| 5-30                        | 60                           | 50        |

\*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

- (1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems: 1000  $\mu$ V within the frequency band 535-1705 kHz, as measured using a 50  $\mu$ H/50 ohms LISN.
- (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

RSS-Gen Clause 8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50  $\mu$ H / 50  $\Omega$  line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

**Table 4 – AC power-line conducted emissions limits**

| Frequency<br>(MHz) | Conducted limit (dB $\mu$ V) |                       |
|--------------------|------------------------------|-----------------------|
|                    | Quasi-peak                   | Average               |
| 0.15 - 0.5         | 66 to 56 <sup>1</sup>        | 56 to 46 <sup>1</sup> |
| 0.5 – 5            | 56                           | 46                    |
| 5 – 30             | 60                           | 50                    |

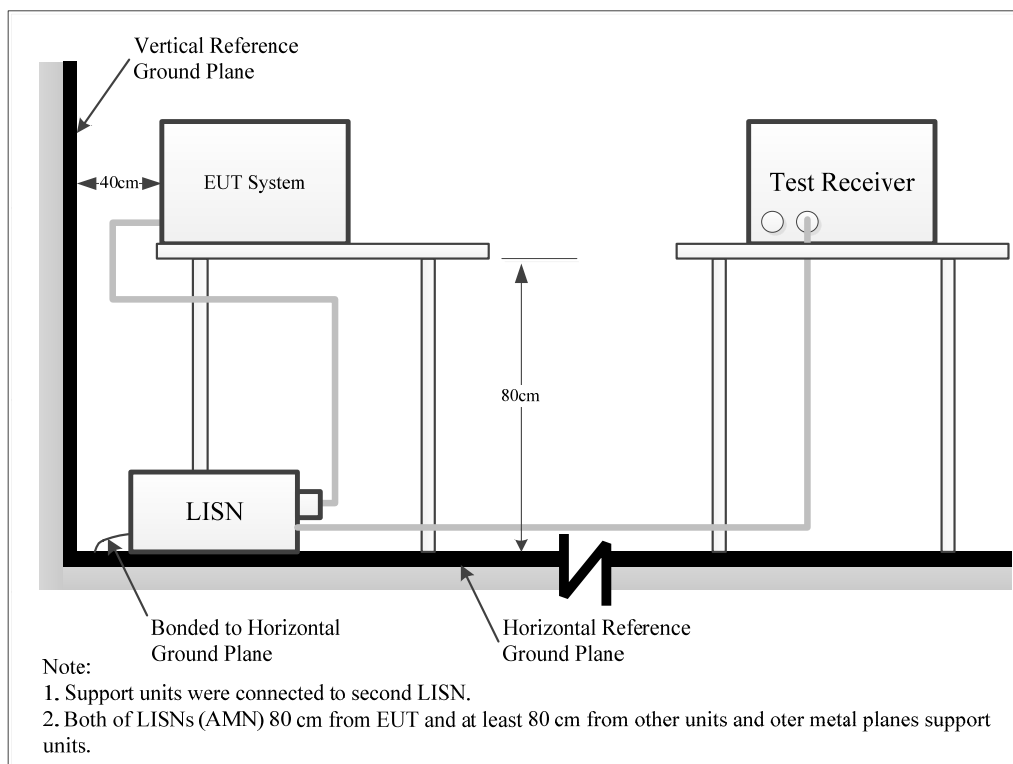
**Note 1:** The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

(a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.

(b) Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

### 4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 , RSS-Gen limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

### 4.1.3 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  |

#### 4.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

#### 4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

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:

Margin = Limit – Result

#### 4.1.6 Test Result

Please refer to section 5.1.

## 4.2 Radiated Spurious Emissions

### 4.2.1 Applicable Standard

FCC §15.247 (d);

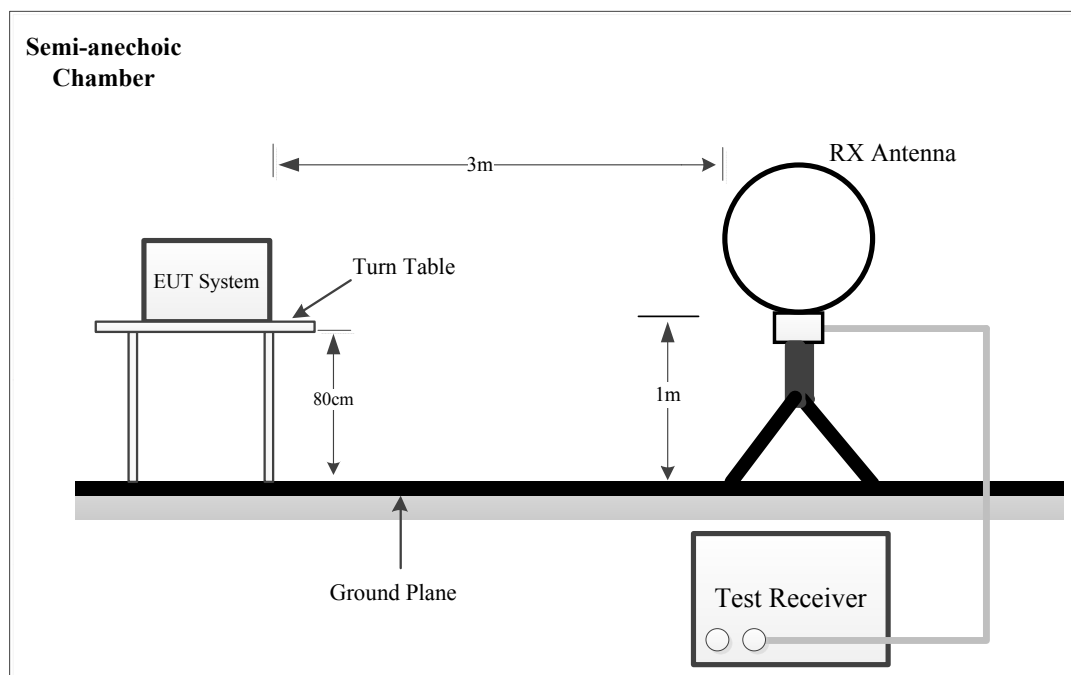
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

RSS-247 Clause 5.5

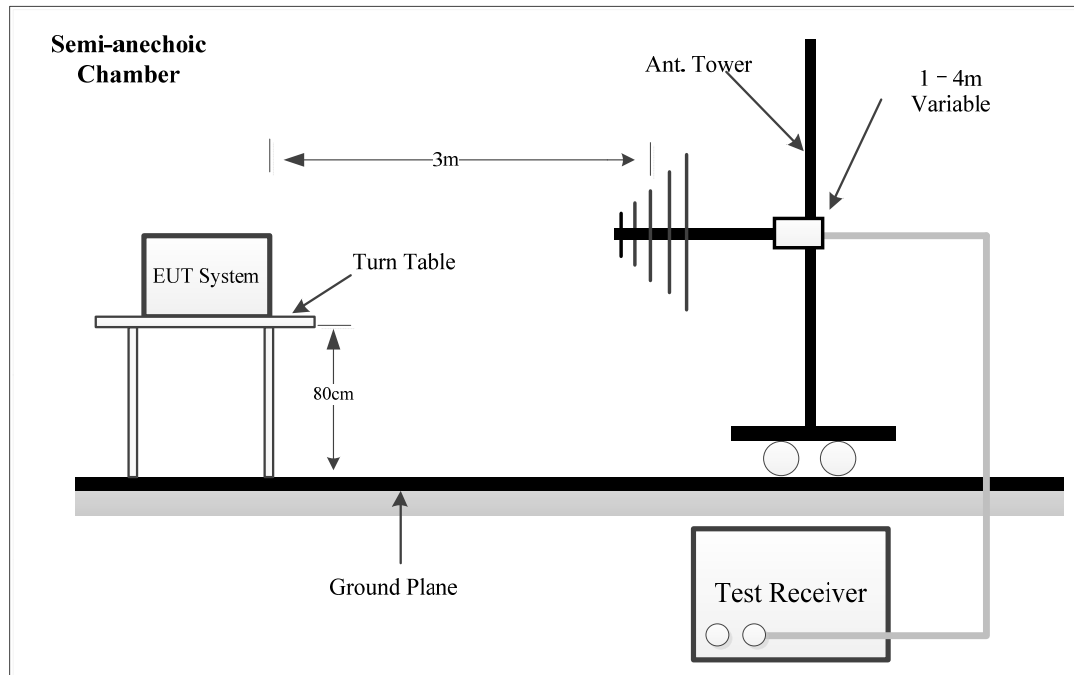
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required

### 4.2.2 EUT Setup

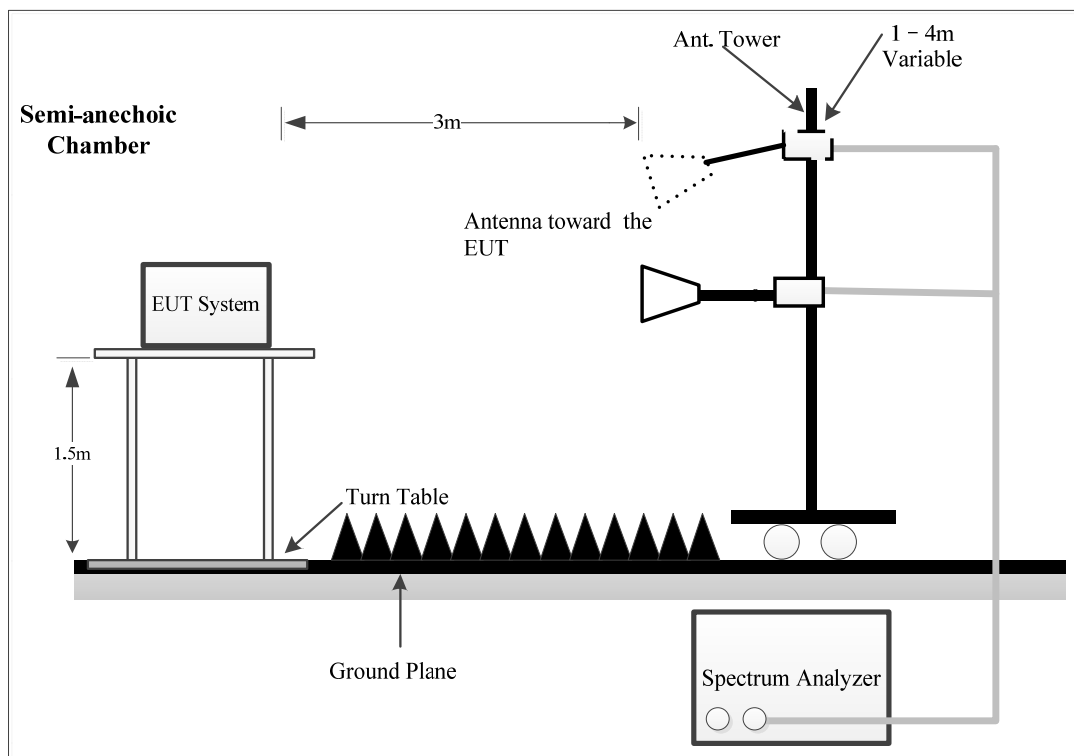
9kHz~30MHz:



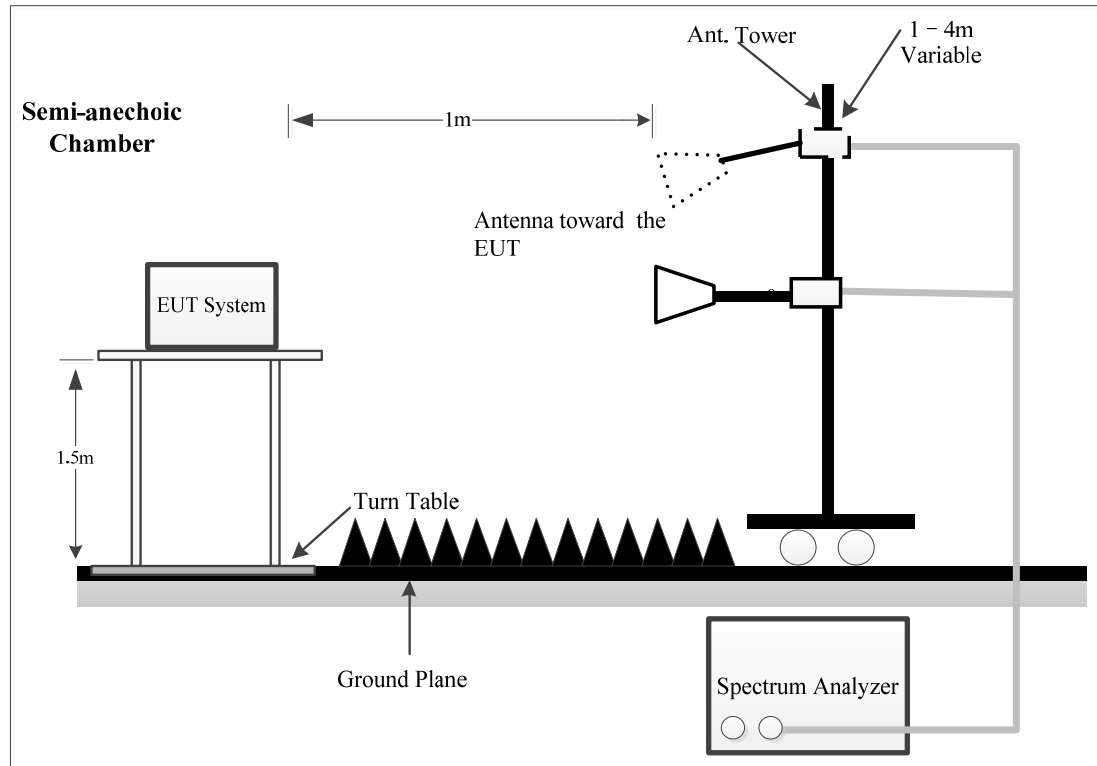
**30MHz~1GHz:**



**1-18GHz:**



## 18-25GHz:



The radiated emissions were performed in the semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.247 limits & RSS-247, RSS-Gen limits.

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

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

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

#### 9kHz-1000MHz:

| Frequency Range | Measurement | RBW     | Video B/W | IF B/W  | Detector |
|-----------------|-------------|---------|-----------|---------|----------|
| 9 kHz-150 kHz   | QP/AV       | 200 Hz  | 1 kHz     | 200 Hz  | QP/AV    |
| 150 kHz-30 MHz  | QP/AV       | 9 kHz   | 30 kHz    | 9 kHz   | QP/AV    |
| 30 MHz-1000 MHz | Peak        | 120 kHz | 500 kHz   | /       | PK       |
|                 | QP          | /       | /         | 120 kHz | QP       |

#### Above 1GHz:

##### Pre-scan:

| Frequency Range | Measurement | RBW  | Video B/W | Detector |
|-----------------|-------------|------|-----------|----------|
| Above 1 GHz     | Peak        | 1MHz | 3 MHz     | PK       |
|                 | AV          | 1MHz | 5kHz      | PK       |

Final measurement for emission identified during the pre-scan:

| Frequency Range | Measurement | RBW  | Video B/W | Detector |
|-----------------|-------------|------|-----------|----------|
| Above 1 GHz     | Peak        | 1MHz | 3 MHz     | PK       |
|                 | AV          | 1MHz | 10 Hz     | PK       |

#### 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 required in Quasi-peak measurement for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average measurement, peak and Average measurement for frequencies above 1 GHz.

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.

For Radiated 18-25GHz test, which was performed at 1.0 m distance, according to C63.10, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.0m  
Distance extrapolation Factor =  $20 \log (\text{specific distance [3m]}/\text{test distance [1.0m]})$  dB = 9.54 dB

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  $\mu\text{V/m}$

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

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

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

The basic equation except 18-25GHz test is as follows:

Factor = Antenna Factor + Cable Loss- Amplifier Gain

For Radiated 18-25GHz test:

Factor = Antenna Factor + Cable Loss- Distance extrapolation Factor

Result = Reading + Factor

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:

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

For the spurious emission below 30MHz, the limit was convert from  $\text{dB}\mu\text{A/m}$  to  $\text{dB}\mu\text{V/m}$  by adding 51.5 dB.

#### 4.2.6 Test Result

Please refer to section 5.2.

### 4.3 20 dB Emission Bandwidth

#### 4.3.1 Applicable Standard

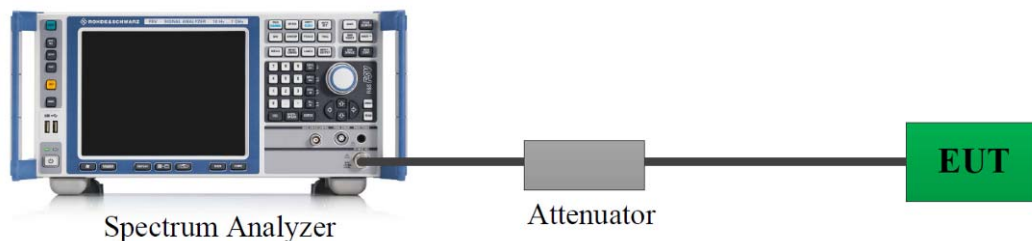
FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

RSS-247 Clause 5.1 b)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

#### 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  $[10 \log (\text{OBW}/\text{RBW})]$  below the reference level. Specific guidance is given in 4.1.6.2
- 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.
- Set detection mode to peak and trace mode to max hold.
- 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 Result

Please refer to section 5.3.

## 4.4 99% Occupied Bandwidth:

### 4.4.1 Applicable Standard

#### RSS-Gen Clause 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

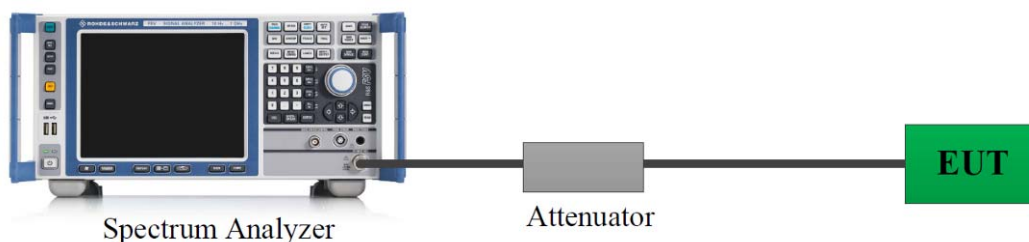
The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.

The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

### 4.4.2 EUT Setup



#### 4.4.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) 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 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) 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).

#### 4.4.4 Test Result

Please refer to section 5.4.

## 4.5 Channel Separation

### 4.5.1 Applicable Standard

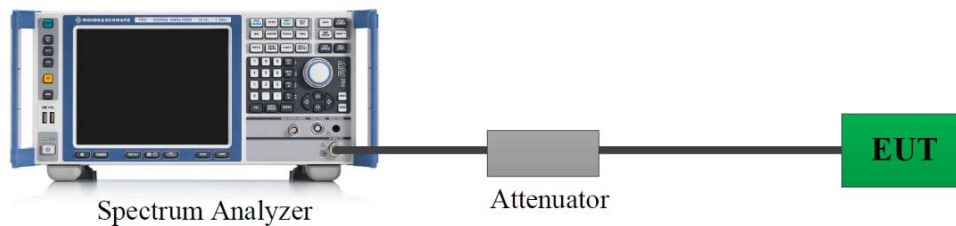
#### FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

#### RSS-247 Clause 5.1 b)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.50 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

### 4.5.2 EUT Setup



### 4.5.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.2

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- Span: Wide enough to capture the peaks of two adjacent channels.
- RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- Video (or average) bandwidth (VBW)  $\geq$  RBW.
- Sweep: No faster than coupled (auto) time.
- Detector function: Peak.
- Trace: Max hold.
- Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

### 4.5.4 Test Result

Please refer to section 5.5.

## 4.6 Number Of Hopping Frequency

### 4.6.1 Applicable Standard

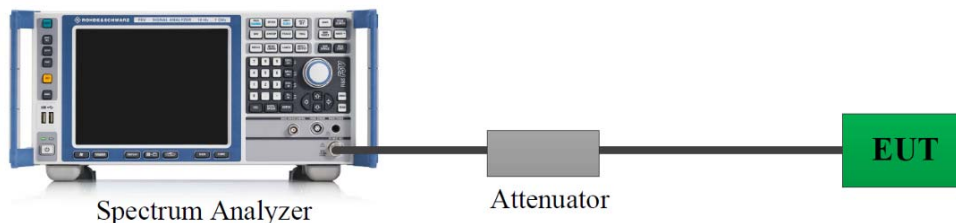
FCC §15.247 (a)(1)(iii)

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

RSS-247 Clause 5.1 d)

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

### 4.6.2 EUT Setup



### 4.6.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.3

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c) VBW  $\geq$  RBW.
- d) Sweep: No faster than coupled (auto) time.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

### 4.6.4 Test Result

Please refer to section 5.6.

## 4.7 Time Of Occupancy(Dwell Time)

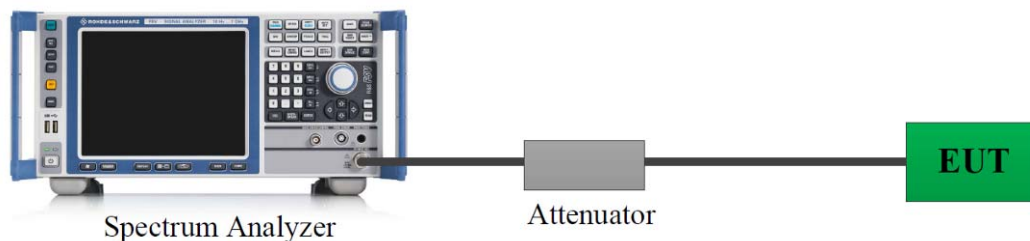
### 4.7.1 Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

RSS-247 Clause 5.1 d)

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

### 4.7.2 EUT Setup



### 4.7.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.4

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- Span: Zero span, centered on a hopping channel.
- RBW shall be  $\leq$  channel spacing and where possible RBW should be set  $\gg 1/T$ , where T is the expected transmission time per hop.
- Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period =  $1/\text{hopping rate}$ ) should achieve this.
- Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
- Detector function: Peak.
- Trace: Clear-write, single sweep.
- Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory

observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is  $3 / 0.5 \times 10$ , or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

Where the device shares the same hopping algorithms (dwell time, channel selection) across multiple data rates or modulation schemes then the time of occupancy need only be measured for one of those modulation schemes or data rates. If the dwell time value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in dwell time.

Spectral plots of the channel occupancy shall be included in the report.

#### **4.7.4 Test Result**

Please refer to section 5.7.

## 4.8 Maximum Conducted Output Power

### 4.8.1 Applicable Standard

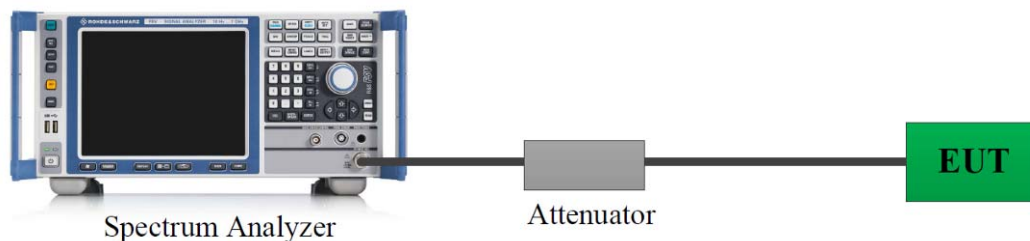
FCC §15.247 (b)(1)

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

According to RSS-247 Clause 5.4 b)

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

### 4.8.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

### 4.8.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings:

- Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- RBW > 20 dB bandwidth of the emission being measured.
- VBW  $\geq$  RBW.
- Sweep: No faster than coupled (auto) time.
- Detector function: Peak.
- Trace: Max-hold.
- Allow trace to stabilize.
- Use the marker-to-peak function to set the marker to the peak of the emission.
  - The indicated level is the peak output power, after any corrections for external attenuators and cables.
  - A spectral plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

### 4.8.4 Test Result

Please refer to section 5.8.

## 4.9 Conducted Spurious Emission

### 4.9.1 Applicable Standard

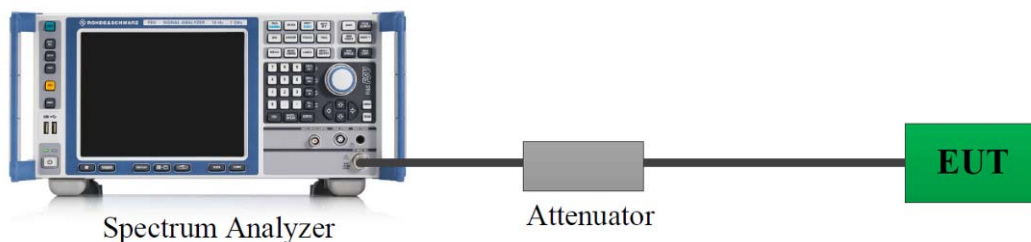
FCC §15.247 (d);

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)).

According to RSS-247 Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

### 4.9.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

### 4.9.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.7.2

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

#### 4.9.4 Test Result

Please refer to section 5.9.

## 4.10 Antenna Requirement

### 4.10.1 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.

#### RSS-Gen §6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

### 4.10.2 Judgment

**Compliant.** Please refer to the Antenna Information detail in Section 1.3.

## 5. TEST DATA AND RESULTS

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### 5.1 AC Line Conducted Emissions

**Not Applicable**, the device was powered by battery when operating.

## 5.2 Radiated Spurious Emissions

### 1) 9kHz - 1GHz

|                |            |              |              |
|----------------|------------|--------------|--------------|
| Serial Number: | 38D1-2     | Test Date:   | 2025/8/23    |
| Test Site:     | Chamber10m | Test Mode:   | Transmitting |
| Tester:        | Zoo Zou    | Test Result: | Pass         |

#### Environmental Conditions:

|                      |      |                           |    |                           |       |
|----------------------|------|---------------------------|----|---------------------------|-------|
| Temperature:<br>(°C) | 27.4 | Relative Humidity:<br>(%) | 42 | ATM<br>Pressure:<br>(kPa) | 101.1 |
|----------------------|------|---------------------------|----|---------------------------|-------|

#### 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     | 2025/7/1         | 2026/6/30            |
| Unknown        | Coaxial Cable        | C-NJNJ-50 | C-0400-04     | 2025/7/1         | 2026/6/30            |
| Unknown        | Coaxial Cable        | C-NJNJ-50 | C-0530-01     | 2025/7/1         | 2026/6/30            |
| Sonoma         | Amplifier            | 310N      | 185914        | 2024/8/26        | 2025/8/25            |
| R&S            | EMI Test Receiver    | ESR3      | 102453        | 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:

Please refer to the below plots.

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

Note: BDR Low channel was tested.

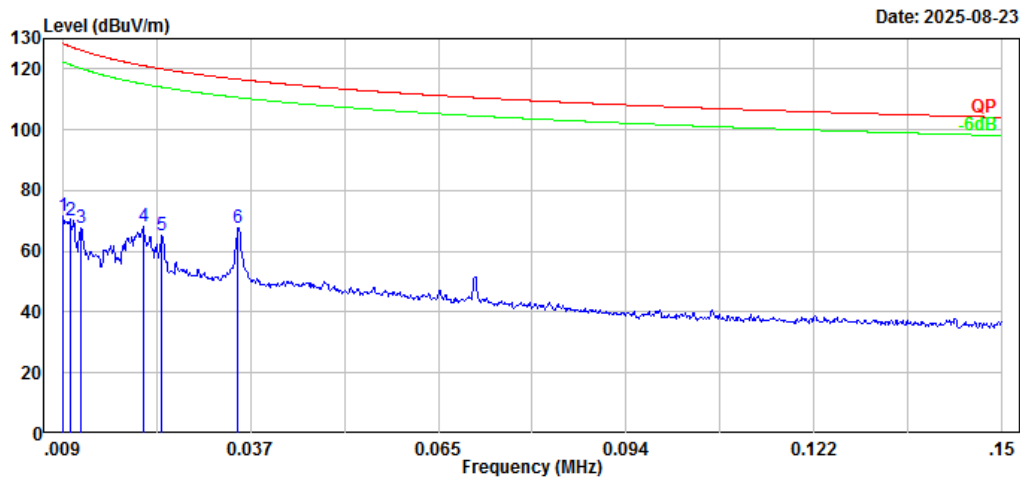
9kHz~30MHz

Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below:

Project No.: 2502W73519E-RF  
Polarization: Parallel  
Test Mode: Transmitting  
Note: BT

Serial No.: 38D1-2  
Tester: Zoo Zou

RBW:200Hz VBW:1kHz

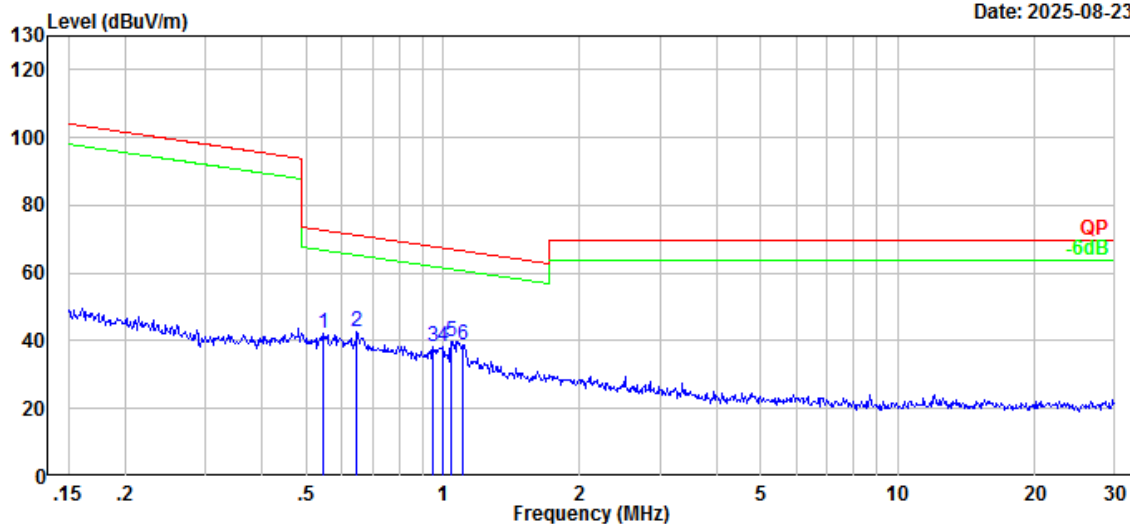


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.009              | 18.46             | 53.19            | 71.65              | 128.39            | 56.74          | Peak        |
| 2   | 0.010              | 17.51             | 52.78            | 70.29              | 127.37            | 57.08          | Peak        |
| 3   | 0.012              | 15.29             | 52.38            | 67.67              | 126.26            | 58.59          | Peak        |
| 4   | 0.021              | 18.22             | 49.76            | 67.98              | 121.11            | 53.13          | Peak        |
| 5   | 0.024              | 16.26             | 49.05            | 65.31              | 120.02            | 54.71          | Peak        |
| 6   | 0.035              | 21.09             | 46.60            | 67.69              | 116.63            | 48.94          | Peak        |

Project No.: 2502W73519E-RF  
Polarization: Parallel  
Test Mode: Transmitting  
Note: BT  
RBW:9kHz VBW:30kHz

Serial No.: 38D1-2  
Tester: Zoo Zou

Date: 2025-08-23



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.544              | 18.88             | 23.07            | 41.95              | 72.88             | 30.93          | Peak        |
| 2   | 0.647              | 20.71             | 22.00            | 42.71              | 71.33             | 28.62          | Peak        |
| 3   | 0.953              | 20.64             | 17.50            | 38.14              | 67.90             | 29.76          | Peak        |
| 4   | 1.000              | 21.54             | 16.57            | 38.11              | 67.48             | 29.37          | Peak        |
| 5   | 1.043              | 23.28             | 16.37            | 39.65              | 67.10             | 27.45          | Peak        |
| 6   | 1.106              | 22.65             | 16.09            | 38.74              | 66.58             | 27.84          | Peak        |

30MHz-1GHz

Project No.: 2502W73519E-RF

Serial No.: 38D1-2

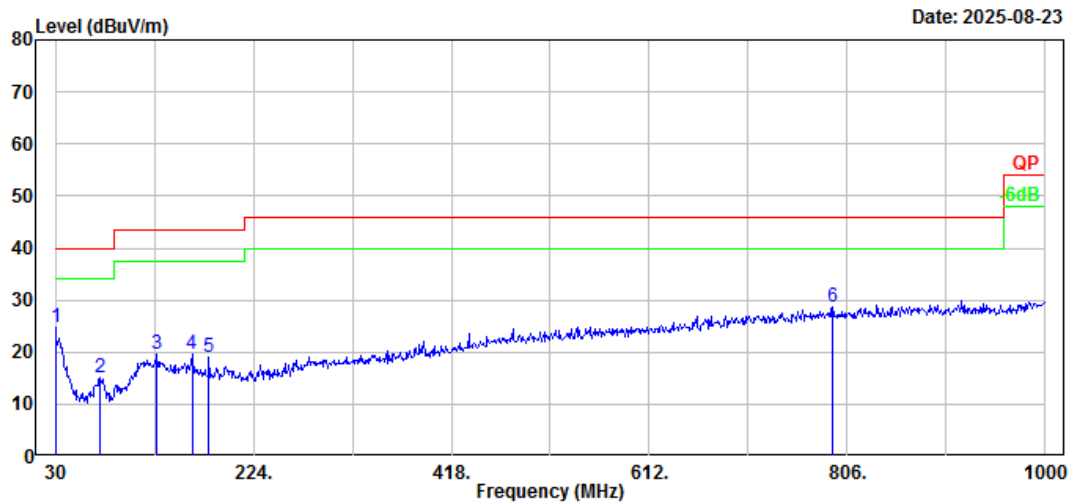
Polarization: Horizontal

Tester: Zoo Zou

Test Mode: Transmitting

Note: BT

RBW:120kHz VBW:500kHz

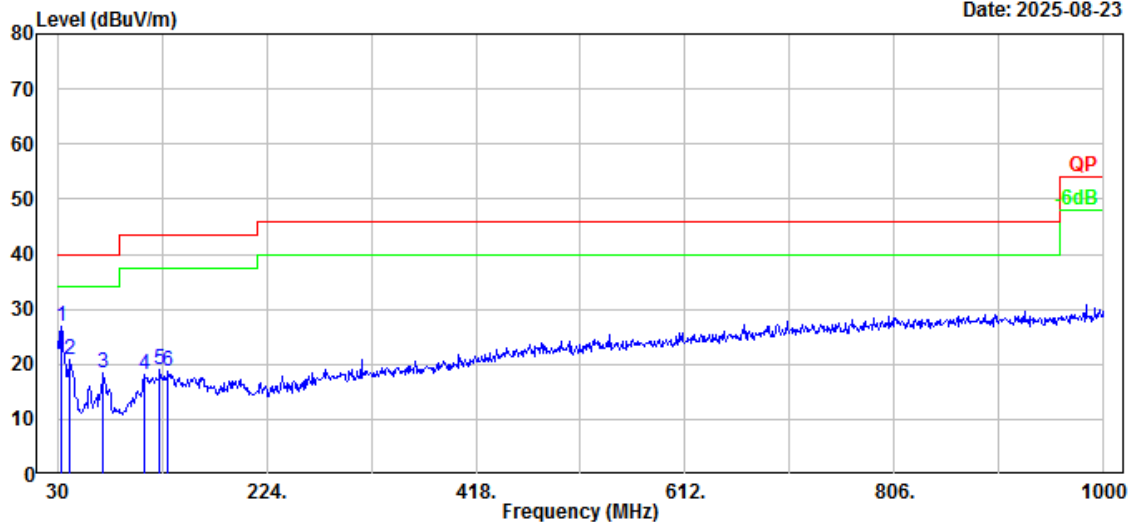


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 30.00              | 28.77             | -4.10            | 24.67              | 40.00             | 15.33          | Peak        |
| 2   | 73.65              | 31.23             | -16.08           | 15.15              | 40.00             | 24.85          | Peak        |
| 3   | 129.91             | 29.44             | -9.67            | 19.77              | 43.50             | 23.73          | Peak        |
| 4   | 163.86             | 30.71             | -11.17           | 19.54              | 43.50             | 23.96          | Peak        |
| 5   | 180.35             | 31.26             | -12.25           | 19.01              | 43.50             | 24.49          | Peak        |
| 6   | 791.45             | 28.33             | 0.31             | 28.64              | 46.00             | 17.36          | Peak        |

Project No.: 2502W73519E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: BT  
RBW:120kHz VBW:500kHz

Serial No.: 38D1-2  
Tester: Zoo Zou

Date: 2025-08-23



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 33.88              | 33.69             | -6.81            | 26.88              | 40.00             | 13.12          | Peak        |
| 2   | 41.64              | 32.56             | -11.82           | 20.74              | 40.00             | 19.26          | Peak        |
| 3   | 72.68              | 34.43             | -16.08           | 18.35              | 40.00             | 21.65          | Peak        |
| 4   | 111.48             | 29.38             | -11.35           | 18.03              | 43.50             | 25.47          | Peak        |
| 5   | 125.06             | 28.82             | -9.91            | 18.91              | 43.50             | 24.59          | Peak        |
| 6   | 132.82             | 28.72             | -9.97            | 18.75              | 43.50             | 24.75          | Peak        |

2) 1-25GHz:

|                |           |              |              |
|----------------|-----------|--------------|--------------|
| Serial Number: | 38D1-2    | Test Date:   | 2025/8/23    |
| Test Site:     | Chamber B | Test Mode:   | Transmitting |
| Tester:        | Leo Xiao  | Test Result: | Pass         |

| Environmental Conditions: |      |                           |    |                           |       |
|---------------------------|------|---------------------------|----|---------------------------|-------|
| Temperature:<br>(°C)      | 25.8 | Relative Humidity:<br>(%) | 32 | ATM<br>Pressure:<br>(kPa) | 101.1 |

Test Equipment List and Details:

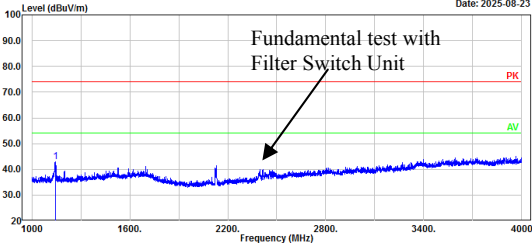
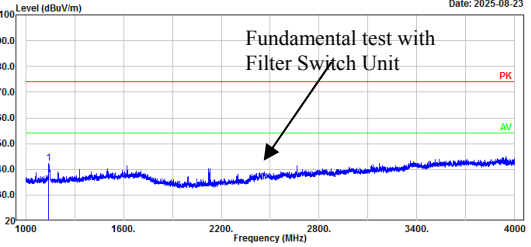
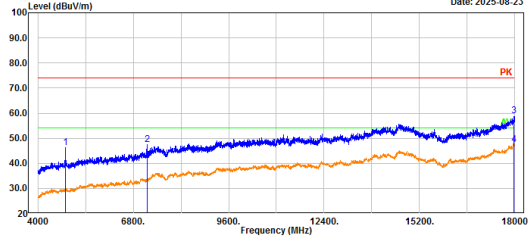
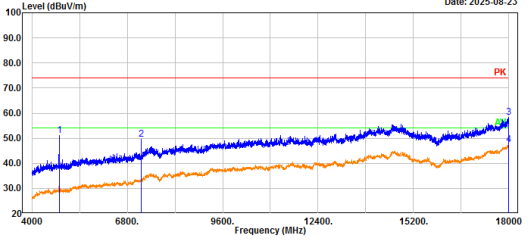
| Manufacturer          | Description                                                     | Model                       | Serial Number           | Calibration Date | Calibration Due Date |
|-----------------------|-----------------------------------------------------------------|-----------------------------|-------------------------|------------------|----------------------|
| ETS-Lindgren          | Horn Antenna                                                    | 3115                        | 000 527 35              | 2023/9/7         | 2026/9/6             |
| Ducommun Technologies | Horn Antenna                                                    | ARH-4223-02                 | 1007726-02 1304         | 2023/2/22        | 2026/2/21            |
| Xinhang Macrowave     | Coaxial Cable                                                   | XH750A-N/J-SMA/J-10M        | 20231117004 #0001       | 2024/11/17       | 2025/11/16           |
| Xinhang Macrowave     | Coaxial Cable                                                   | XH360A-2.92/J-2.92/J-6M-A   | 20231208001 #0001       | 2024/12/9        | 2025/12/8            |
| AH                    | Preamplifier                                                    | PAM-0118P                   | 469                     | 2025/4/11        | 2026/4/10            |
| AH                    | Preamplifier                                                    | PAM-1840VH                  | 191                     | 2024/9/6         | 2025/9/5             |
| R&S                   | Spectrum Analyzer                                               | FSV40                       | 101944                  | 2024/9/5         | 2025/9/4             |
| Audix                 | Test Software                                                   | E3                          | 191218 V9               | N/A              | N/A                  |
| Decentest             | Multiplex Switch<br>Test Control Set<br>&<br>Filter Switch Unit | DT7220SCU<br>&<br>DT7220FCU | DC79902<br>&<br>DC79905 | 2024/8/27        | 2025/8/26            |

\* 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).

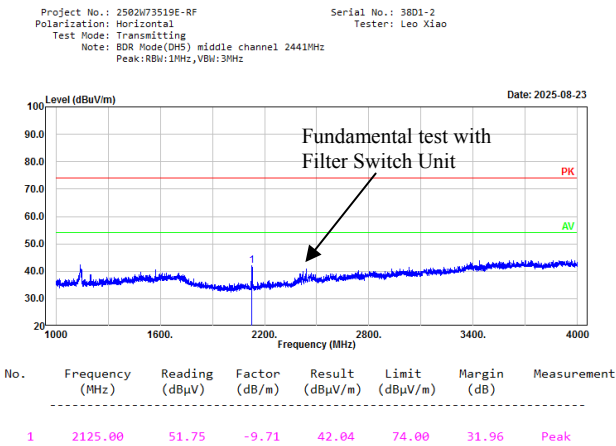
Test Data:

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

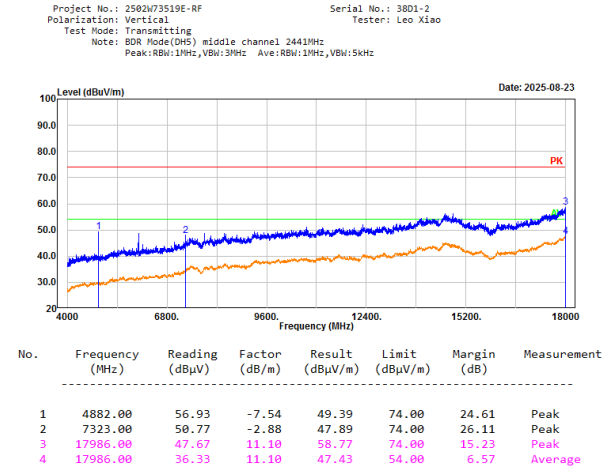
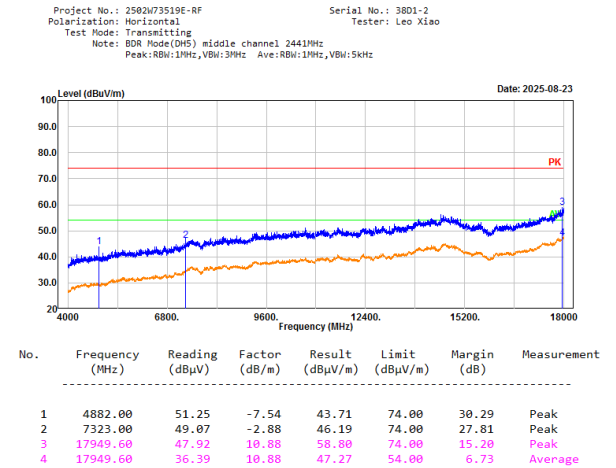
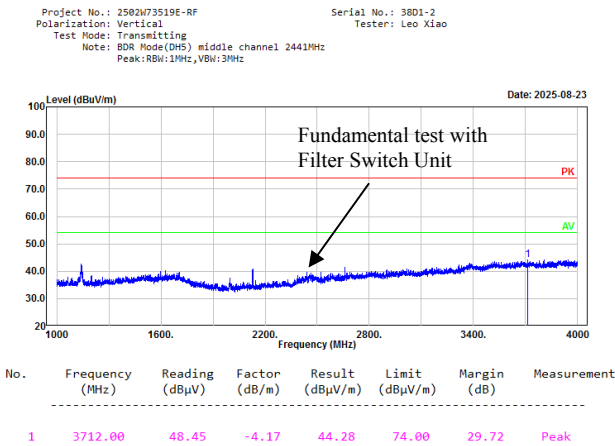
1-18GHz(Maximum power mode was tested):

| BDR(DH5) Mode low channel Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                |               | BDR(DH5) Mode low channel Vertical |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|---------------|------------------------------------|-----------------|----------------|---------------|-----------------|----------------|-------------|-------------|---|---------|-------|-------|-------|-------|-------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|-------|-------|-----------------|----------------|---------------|-----------------|----------------|-------------|-------------|-------|---------|-------|-------|-------|----------|-------|-------|-------|-------|------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|-------------|---|---------|-------|-------|-------|-------|-------|------|---|---------|-------|-------|-------|-------|-------|------|---|----------|-------|-------|-------|-------|-------|------|---|----------|-------|-------|-------|-------|------|---------|
| <div>Project No.: 2502W73519E-RF<br/>Polarization: Horizontal<br/>Test Mode: Transmitting<br/>Note: BDR Mode(DH5) low channel 2402MHz<br/>Peak:RBW:1MHz,VBW:3MHz</div> <div>Serial No.: 3801-2<br/>Tester: Leo Xiao</div> <div>Date: 2025-08-23</div>  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>1142.80</td><td>50.64</td><td>-7.79</td><td>42.85</td><td>74.00</td><td>31.15</td><td>Peak</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                               |                 |                |               | No.                                | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Measurement | 1 | 1142.80 | 50.64 | -7.79 | 42.85 | 74.00 | 31.15 | Peak | <div>Project No.: 2502W73519E-RF<br/>Polarization: Vertical<br/>Test Mode: Transmitting<br/>Note: BDR Mode(DH5) low channel 2402MHz<br/>Peak:RBW:1MHz,VBW:3MHz</div> <div>Serial No.: 3801-2<br/>Tester: Leo Xiao</div> <div>Date: 2025-08-23</div>  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>1141.60</td><td>50.28</td><td>-7.79</td><td>42.49</td><td>74.00</td><td>31.51</td><td>Peak</td></tr></table> |         |       |       | No.   | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Measurement | 1     | 1141.60 | 50.28 | -7.79 | 42.49 | 74.00    | 31.51 | Peak  |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m)                    | Limit (dBuV/m)  | Margin (dB)    | Measurement   |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1142.80         | 50.64          | -7.79         | 42.85                              | 74.00           | 31.15          | Peak          |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m)                    | Limit (dBuV/m)  | Margin (dB)    | Measurement   |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1141.60         | 50.28          | -7.79         | 42.49                              | 74.00           | 31.51          | Peak          |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| <div>Project No.: 2502W73519E-RF<br/>Polarization: Horizontal<br/>Test Mode: Transmitting<br/>Note: BDR Mode(DH5) low channel 2402MHz<br/>Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5KHz</div> <div>Serial No.: 3801-2<br/>Tester: Leo Xiao</div> <div>Date: 2025-08-23</div>  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>4804.00</td><td>53.79</td><td>-7.53</td><td>46.26</td><td>74.00</td><td>27.74</td><td>Peak</td></tr><tr><td>2</td><td>7206.00</td><td>50.80</td><td>-3.42</td><td>47.38</td><td>74.00</td><td>26.62</td><td>Peak</td></tr><tr><td>3</td><td>17969.20</td><td>47.95</td><td>11.00</td><td>58.95</td><td>74.00</td><td>15.05</td><td>Peak</td></tr><tr><td>4</td><td>17969.20</td><td>36.33</td><td>11.00</td><td>47.33</td><td>54.00</td><td>6.67</td><td>Average</td></tr></table> |                 |                |               | No.                                | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Measurement | 1 | 4804.00 | 53.79 | -7.53 | 46.26 | 74.00 | 27.74 | Peak | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7206.00 | 50.80 | -3.42 | 47.38 | 74.00           | 26.62          | Peak          | 3               | 17969.20       | 47.95       | 11.00       | 58.95 | 74.00   | 15.05 | Peak  | 4     | 17969.20 | 36.33 | 11.00 | 47.33 | 54.00 | 6.67 | Average | <div>Project No.: 2502W73519E-RF<br/>Polarization: Vertical<br/>Test Mode: Transmitting<br/>Note: BDR Mode(DH5) low channel 2402MHz<br/>Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5KHz</div> <div>Serial No.: 3801-2<br/>Tester: Leo Xiao</div> <div>Date: 2025-08-23</div>  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>4804.00</td><td>58.49</td><td>-7.53</td><td>50.96</td><td>74.00</td><td>23.04</td><td>Peak</td></tr><tr><td>2</td><td>7206.00</td><td>53.02</td><td>-3.42</td><td>49.60</td><td>74.00</td><td>24.40</td><td>Peak</td></tr><tr><td>3</td><td>17986.00</td><td>47.20</td><td>11.10</td><td>58.30</td><td>74.00</td><td>15.70</td><td>Peak</td></tr><tr><td>4</td><td>17986.00</td><td>36.25</td><td>11.10</td><td>47.35</td><td>54.00</td><td>6.65</td><td>Average</td></tr></table> |  |  |  | No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Measurement | 1 | 4804.00 | 58.49 | -7.53 | 50.96 | 74.00 | 23.04 | Peak | 2 | 7206.00 | 53.02 | -3.42 | 49.60 | 74.00 | 24.40 | Peak | 3 | 17986.00 | 47.20 | 11.10 | 58.30 | 74.00 | 15.70 | Peak | 4 | 17986.00 | 36.25 | 11.10 | 47.35 | 54.00 | 6.65 | Average |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m)                    | Limit (dBuV/m)  | Margin (dB)    | Measurement   |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4804.00         | 53.79          | -7.53         | 46.26                              | 74.00           | 27.74          | Peak          |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7206.00         | 50.80          | -3.42         | 47.38                              | 74.00           | 26.62          | Peak          |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 17969.20        | 47.95          | 11.00         | 58.95                              | 74.00           | 15.05          | Peak          |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 17969.20        | 36.33          | 11.00         | 47.33                              | 54.00           | 6.67           | Average       |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m)                    | Limit (dBuV/m)  | Margin (dB)    | Measurement   |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4804.00         | 58.49          | -7.53         | 50.96                              | 74.00           | 23.04          | Peak          |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7206.00         | 53.02          | -3.42         | 49.60                              | 74.00           | 24.40          | Peak          |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 17986.00        | 47.20          | 11.10         | 58.30                              | 74.00           | 15.70          | Peak          |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 17986.00        | 36.25          | 11.10         | 47.35                              | 54.00           | 6.65           | Average       |                 |                |             |             |   |         |       |       |       |       |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |       |       |                 |                |               |                 |                |             |             |       |         |       |       |       |          |       |       |       |       |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |     |                 |                |               |                 |                |             |             |   |         |       |       |       |       |       |      |   |         |       |       |       |       |       |      |   |          |       |       |       |       |       |      |   |          |       |       |       |       |      |         |

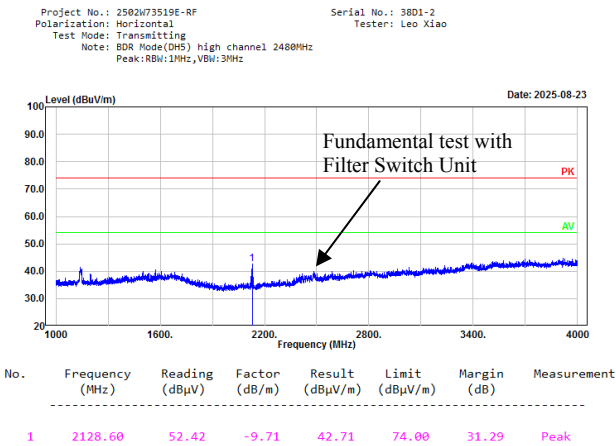
BDR(DH5) Mode middle channel Horizontal



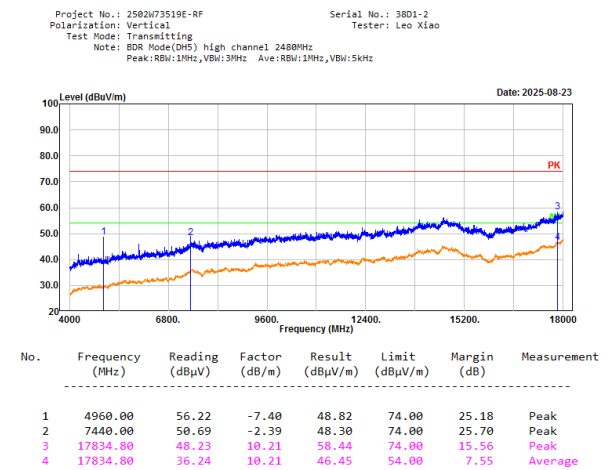
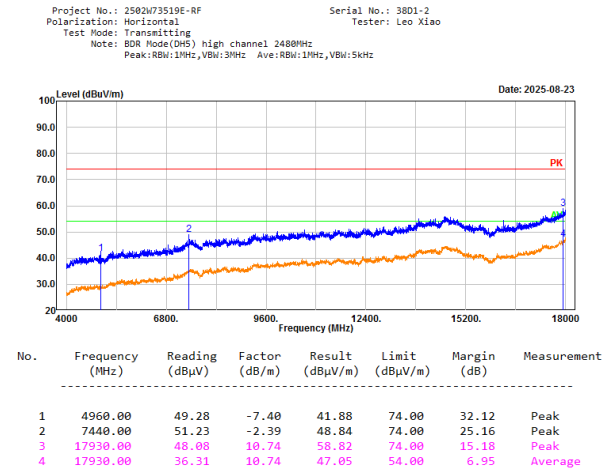
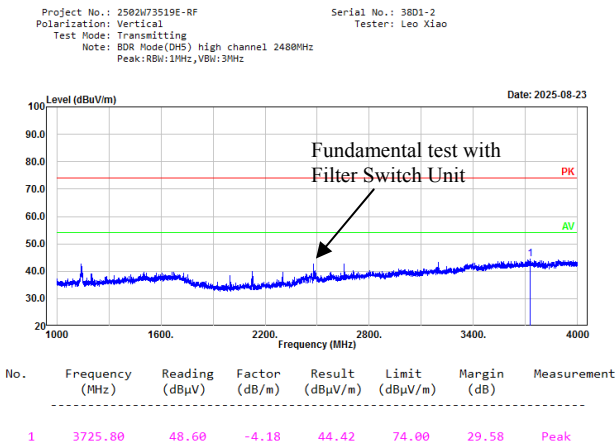
BDR(DH5) Mode middle channel Vertical



BDR(DH5) Mode high channel Horizontal



BDR(DH5) Mode high channel Vertical



**18-25GHz:**  
No Emission was detected in the range 18-25GHz, test was performed on the mode and channel which with the maximum power.

Project No.: 2502W73519E-RF

Serial No.: 3801-2

Polarization: Horizontal

Tester: Leo Xiao

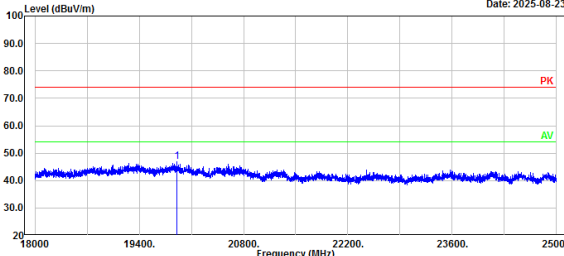
Test Mode: Transmitting

Note: BT

Peak: RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Date: 2025-08-23



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Measurement |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|-------------|
| 1   | 19996.80        | 46.48          | 0.27          | 46.75           | 74.00          | 27.25       | Peak        |

Project No.: 2502W73519E-RF

Serial No.: 3801-2

Polarization: Vertical

Tester: Leo Xiao

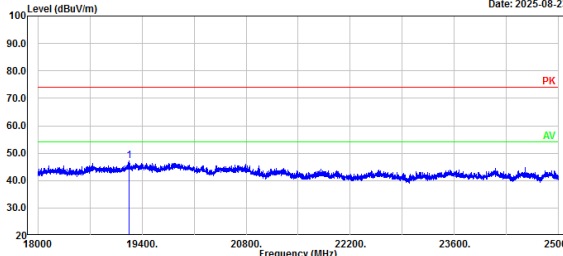
Test Mode: Transmitting

Note: BT

Peak: RBW:1MHz,VBW:3MHz

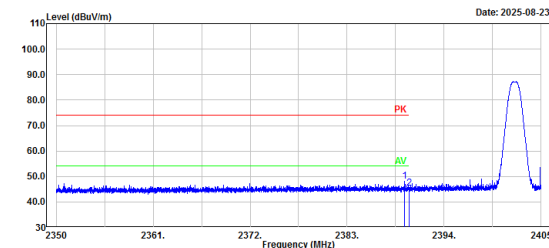
Level (dBuV/m)

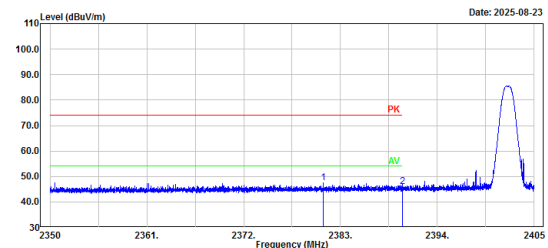
Date: 2025-08-23

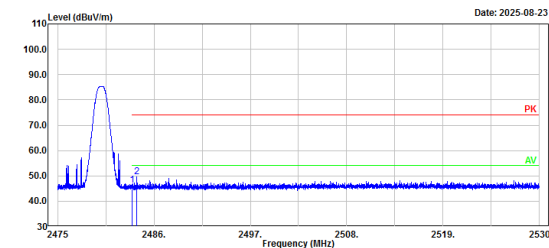


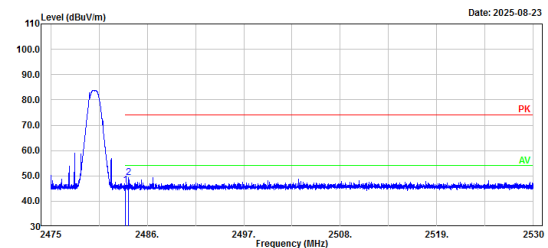
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Measurement |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|-------------|
| 1   | 19232.00        | 47.17          | 0.10          | 47.27           | 74.00          | 26.73       | Peak        |

Bandedge:

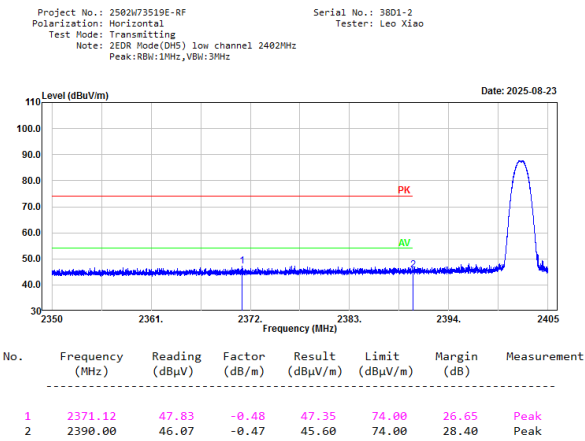
| BDR(DH5) Mode low channel Bandedge Horizontal                                                                                                             |                 |                |               |                                        |                |             |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|---------------|----------------------------------------|----------------|-------------|-------------|
| Project No.: 2502W73519E-RF<br>Polarization: Horizontal<br>Test Mode: Transmitting<br>Note: BDR Mode(DH5) low channel 2402MHz<br>Peak: RBW:1MHz, VBW:3MHz |                 |                |               | Serial No.: 3801-2<br>Tester: Leo Xiao |                |             |             |
| Date: 2025-08-23                                                                                                                                          |                 |                |               |                                        |                |             |             |
|                                                                          |                 |                |               |                                        |                |             |             |
| No.                                                                                                                                                       | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m)                        | Limit (dBuV/m) | Margin (dB) | Measurement |
| 1                                                                                                                                                         | 2389.48         | 48.46          | -0.47         | 47.99                                  | 74.00          | 26.01       | Peak        |
| 2                                                                                                                                                         | 2390.00         | 45.99          | -0.47         | 45.52                                  | 74.00          | 28.48       | Peak        |

| BDR(DH5) Mode low channel Bandedge Vertical                                                                                                             |                 |                |               |                                        |                |             |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|---------------|----------------------------------------|----------------|-------------|-------------|
| Project No.: 2502W73519E-RF<br>Polarization: Vertical<br>Test Mode: Transmitting<br>Note: BDR Mode(DH5) low channel 2402MHz<br>Peak: RBW:1MHz, VBW:3MHz |                 |                |               | Serial No.: 3801-2<br>Tester: Leo Xiao |                |             |             |
| Date: 2025-08-23                                                                                                                                        |                 |                |               |                                        |                |             |             |
|                                                                       |                 |                |               |                                        |                |             |             |
| No.                                                                                                                                                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m)                        | Limit (dBuV/m) | Margin (dB) | Measurement |
| 1                                                                                                                                                       | 2381.01         | 47.97          | -0.47         | 47.50                                  | 74.00          | 26.50       | Peak        |
| 2                                                                                                                                                       | 2390.00         | 46.49          | -0.47         | 46.02                                  | 74.00          | 27.98       | Peak        |

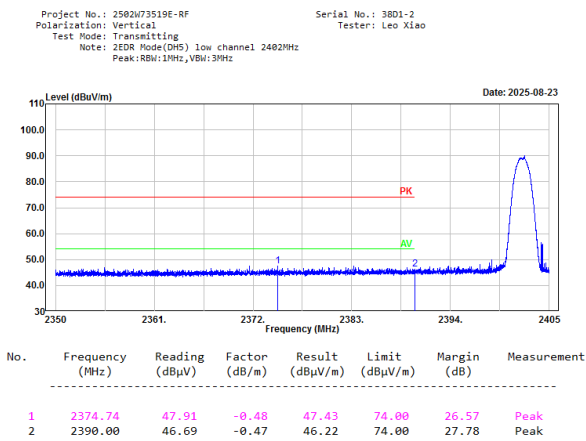
| BDR(DH5) Mode High channel Bandedge Horizontal                                                                                                             |                 |                |               |                                        |                |             |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|---------------|----------------------------------------|----------------|-------------|-------------|
| Project No.: 2502W73519E-RF<br>Polarization: Horizontal<br>Test Mode: Transmitting<br>Note: BDR Mode(DH5) high channel 2480MHz<br>Peak: RBW:1MHz, VBW:3MHz |                 |                |               | Serial No.: 3801-2<br>Tester: Leo Xiao |                |             |             |
| Date: 2025-08-23                                                                                                                                           |                 |                |               |                                        |                |             |             |
|                                                                         |                 |                |               |                                        |                |             |             |
| No.                                                                                                                                                        | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m)                        | Limit (dBuV/m) | Margin (dB) | Measurement |
| 1                                                                                                                                                          | 2483.50         | 46.70          | -0.30         | 46.40                                  | 74.00          | 27.60       | Peak        |
| 2                                                                                                                                                          | 2484.06         | 50.07          | -0.31         | 49.76                                  | 74.00          | 24.24       | Peak        |

| BDR(DH5) Mode High channel Bandedge Vertical                                                                                                             |                 |                |               |                                        |                |             |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|---------------|----------------------------------------|----------------|-------------|-------------|
| Project No.: 2502W73519E-RF<br>Polarization: Vertical<br>Test Mode: Transmitting<br>Note: BDR Mode(DH5) high channel 2480MHz<br>Peak: RBW:1MHz, VBW:3MHz |                 |                |               | Serial No.: 3801-2<br>Tester: Leo Xiao |                |             |             |
| Date: 2025-08-23                                                                                                                                         |                 |                |               |                                        |                |             |             |
|                                                                      |                 |                |               |                                        |                |             |             |
| No.                                                                                                                                                      | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m)                        | Limit (dBuV/m) | Margin (dB) | Measurement |
| 1                                                                                                                                                        | 2483.50         | 46.53          | -0.30         | 46.23                                  | 74.00          | 27.77       | Peak        |
| 2                                                                                                                                                        | 2483.89         | 49.57          | -0.31         | 49.26                                  | 74.00          | 24.74       | Peak        |

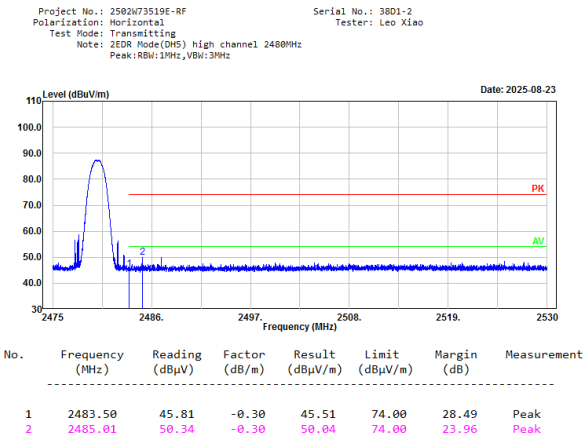
2EDR(DH5) Mode low channel Bandedge Horizontal



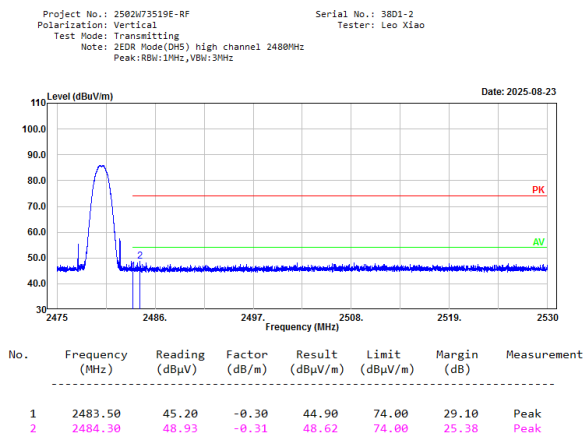
2EDR(DH5) Mode low channel Bandedge Vertical



2EDR(DH5) Mode High channel Bandedge Horizontal



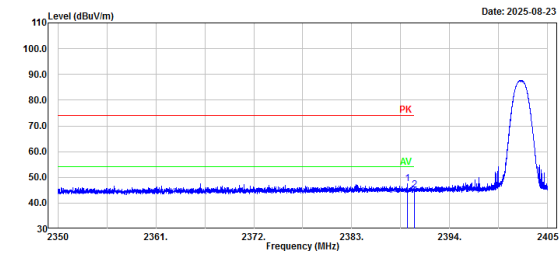
2EDR(DH5) Mode High channel Bandedge Vertical



3EDR(DH5) Mode low channel Bandedge Horizontal

Project No.: 2502W73519E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 3EDR Mode(DH5) low channel 2402MHz  
Peak:RBW:1MHz,VBW:30Hz

Serial No.: 3801-2  
Tester: Leo Xiao

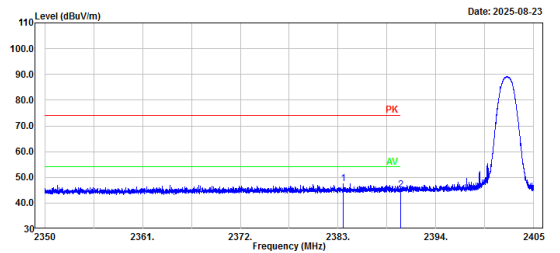


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Measurement |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|-------------|
| 1   | 2389.24         | 48.10          | -0.48         | 47.62           | 74.00          | 26.38       | Peak        |
| 2   | 2390.00         | 45.45          | -0.47         | 44.98           | 74.00          | 29.02       | Peak        |

3EDR(DH5) Mode low channel Bandedge Vertical

Project No.: 2502W73519E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 3EDR Mode(DH5) low channel 2402MHz  
Peak:RBW:1MHz,VBW:30Hz

Serial No.: 3801-2  
Tester: Leo Xiao

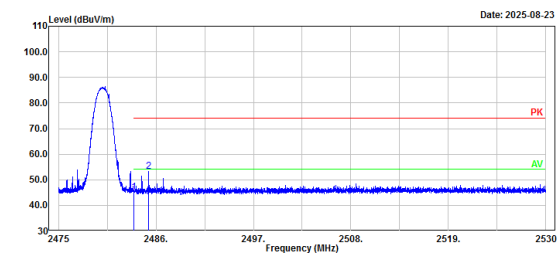


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Measurement |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|-------------|
| 1   | 2383.55         | 48.04          | -0.47         | 47.57           | 74.00          | 26.43       | Peak        |
| 2   | 2390.00         | 45.46          | -0.47         | 44.99           | 74.00          | 29.01       | Peak        |

3EDR(DH5) Mode High channel Bandedge Horizontal

Project No.: 2502W73519E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 3EDR Mode(DH5) high channel 2480MHz  
Peak:RBW:1MHz,VBW:30Hz

Serial No.: 3801-2  
Tester: Leo Xiao

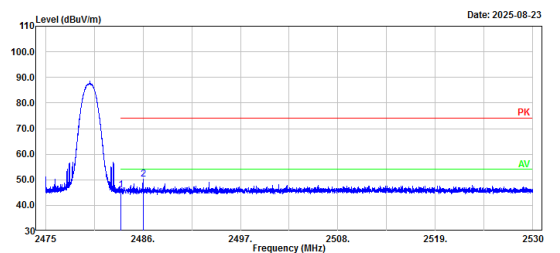


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Measurement |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|-------------|
| 1   | 2483.50         | 45.37          | -0.30         | 45.07           | 74.00          | 28.93       | Peak        |
| 2   | 2485.15         | 53.57          | -0.30         | 53.27           | 74.00          | 20.73       | Peak        |

3EDR(DH5) Mode High channel Bandedge Vertical

Project No.: 2502W73519E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 3EDR Mode(DH5) high channel 2480MHz  
Peak:RBW:1MHz,VBW:30Hz

Serial No.: 3801-2  
Tester: Leo Xiao



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Measurement |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|-------------|
| 1   | 2483.50         | 46.30          | -0.30         | 46.00           | 74.00          | 28.00       | Peak        |
| 2   | 2486.01         | 50.45          | -0.30         | 50.15           | 74.00          | 23.85       | Peak        |

5.3 20 dB Emission Bandwidth

Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 38D1-1      | Test Date:   | 2025/09/21   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | N/A          |

Environmental Conditions:

|                      |      |                           |    |                        |       |
|----------------------|------|---------------------------|----|------------------------|-------|
| Temperature:<br>(°C) | 26.3 | Relative Humidity:<br>(%) | 71 | ATM Pressure:<br>(kPa) | 100.2 |
|----------------------|------|---------------------------|----|------------------------|-------|

Test Equipment List and Details:

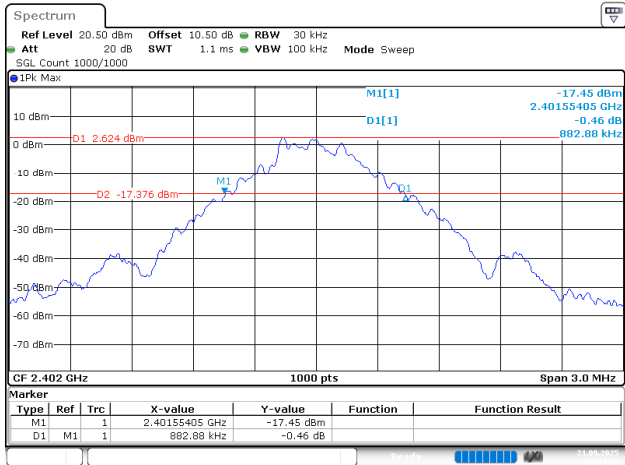
| Manufacturer | Description        | Model           | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|-----------------|---------------|------------------|----------------------|
| Eastsheep    | Coaxial Attenuator | 5W-N-JK-6G-10dB | F-08-EM503    | 2025/06/07       | 2026/06/06           |
| R&S          | Spectrum Analyzer  | FSV40           | 101589        | 2025/07/28       | 2026/07/27           |

\* 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:

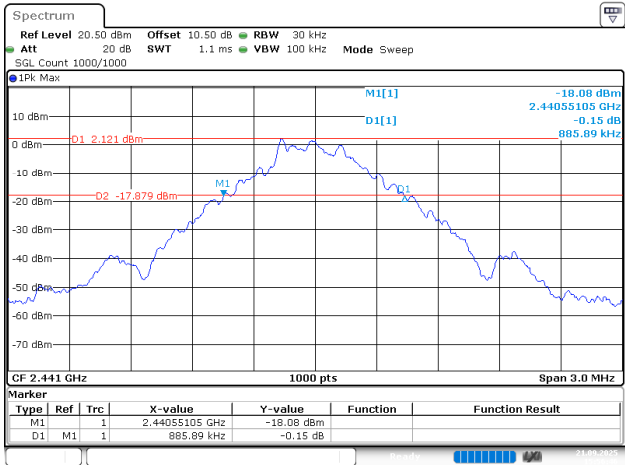
| Mode     | Channel | Result (MHz) |
|----------|---------|--------------|
| BDR_DH1  | Low     | 0.883        |
|          | Middle  | 0.886        |
|          | High    | 0.886        |
| 2EDR_DH1 | Low     | 1.225        |
|          | Middle  | 1.225        |
|          | High    | 1.246        |
| 3EDR_DH1 | Low     | 1.225        |
|          | Middle  | 1.225        |
|          | High    | 1.249        |

BDR\_DH1\_Low



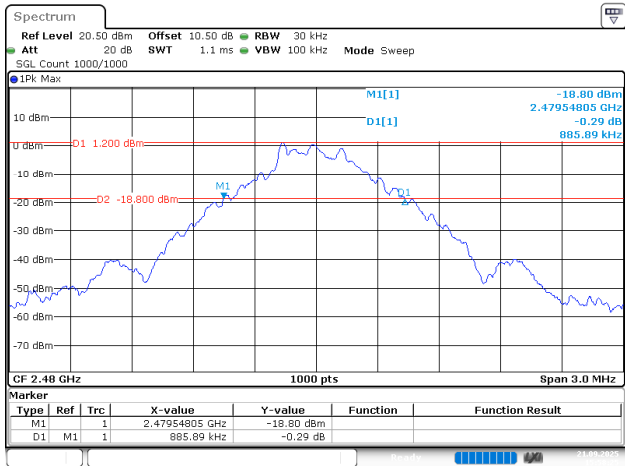
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:54:03

BDR\_DH1\_Middle



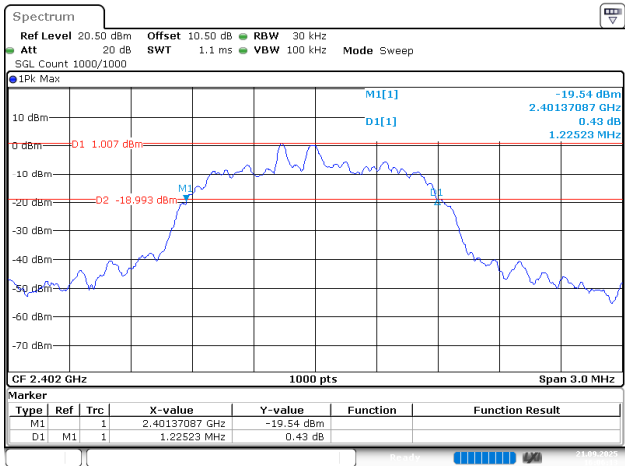
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:56:46

BDR\_DH1\_High



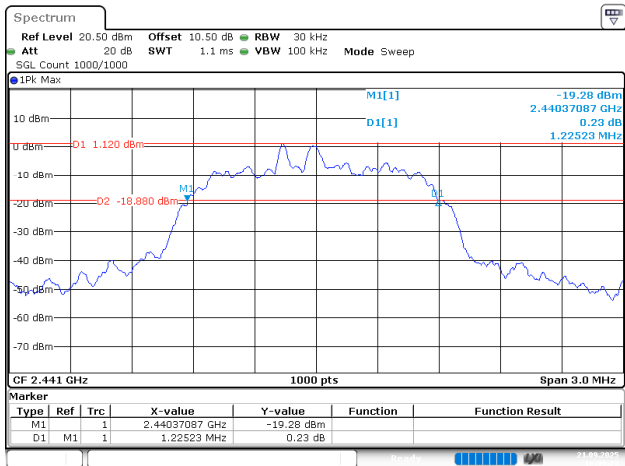
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:58:24

2EDR\_DH1\_Low



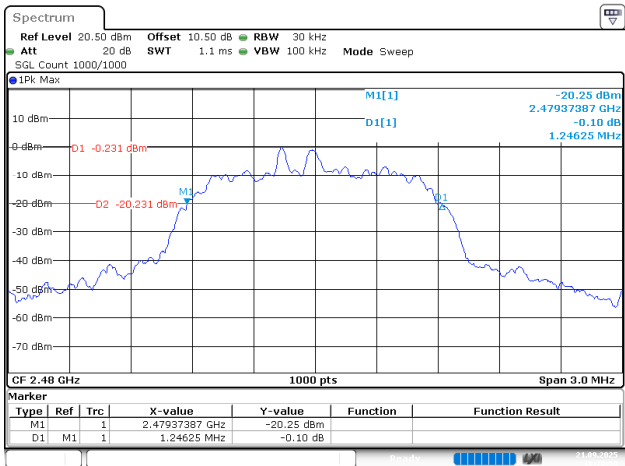
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:06:13

2EDR\_DH1\_Middle



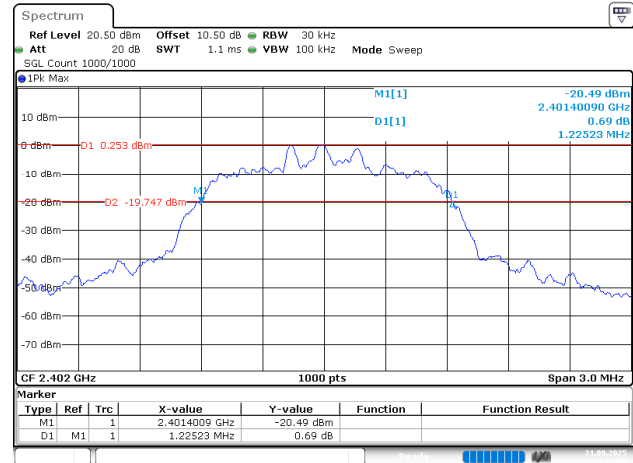
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:09:23

2EDR\_DH1\_High



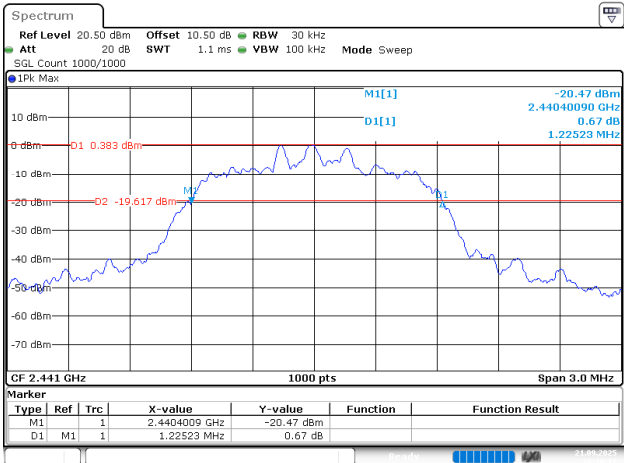
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:10:50

3EDR\_DH1\_Low



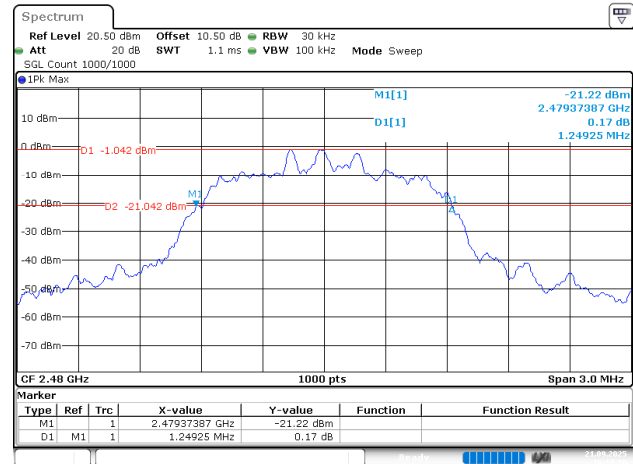
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:12:59

3EDR\_DH1\_Middle



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:16:17

3EDR\_DH1\_High



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:17:49

5.4 99% Occupied Bandwidth

Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 38D1-1      | Test Date:   | 2025/09/21   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | N/A          |

Environmental Conditions:

|                      |      |                              |    |                        |       |
|----------------------|------|------------------------------|----|------------------------|-------|
| Temperature:<br>(°C) | 26.3 | Relative<br>Humidity:<br>(%) | 71 | ATM Pressure:<br>(kPa) | 100.2 |
|----------------------|------|------------------------------|----|------------------------|-------|

Test Equipment List and Details:

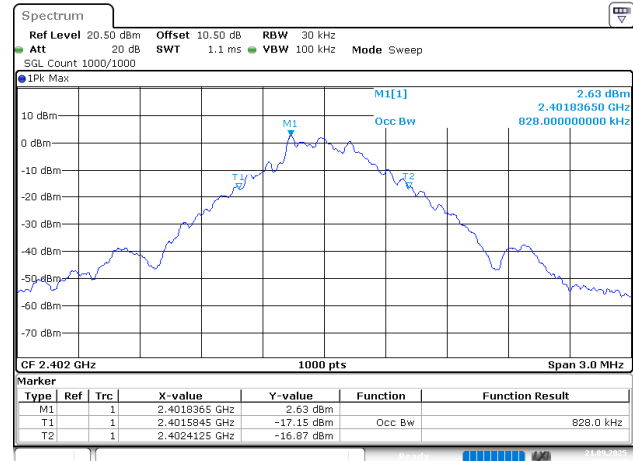
| Manufacturer | Description        | Model           | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|-----------------|---------------|------------------|----------------------|
| Eastsheep    | Coaxial Attenuator | 5W-N-JK-6G-10dB | F-08-EM503    | 2025/06/07       | 2026/06/06           |
| R&S          | Spectrum Analyzer  | FSV40           | 101589        | 2025/07/28       | 2026/07/27           |

\* 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:

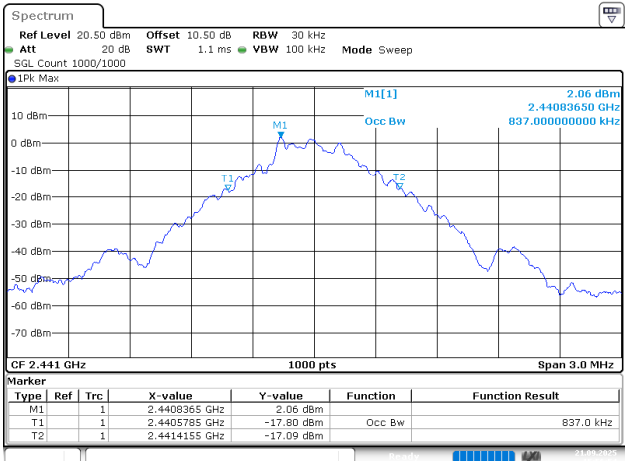
| Mode     | Channel | 99% OBW<br>(MHz) |
|----------|---------|------------------|
| BDR_DH1  | Low     | 0.828            |
|          | Middle  | 0.837            |
|          | High    | 0.849            |
| 2EDR_DH1 | Low     | 1.161            |
|          | Middle  | 1.161            |
|          | High    | 1.161            |
| 3EDR_DH1 | Low     | 1.137            |
|          | Middle  | 1.143            |
|          | High    | 1.149            |

BDR\_DH1\_Low



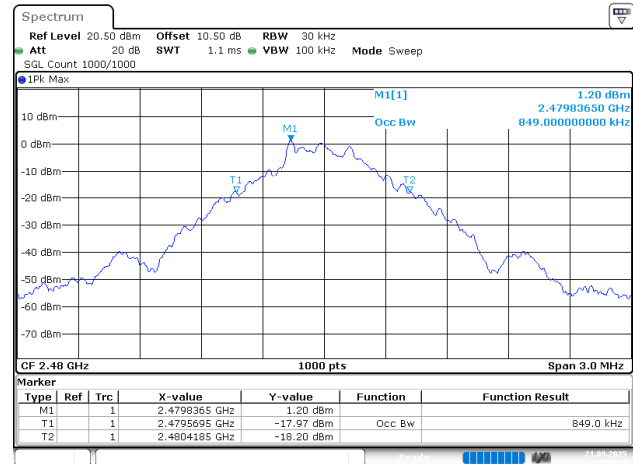
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:54:12

BDR\_DH1\_Middle



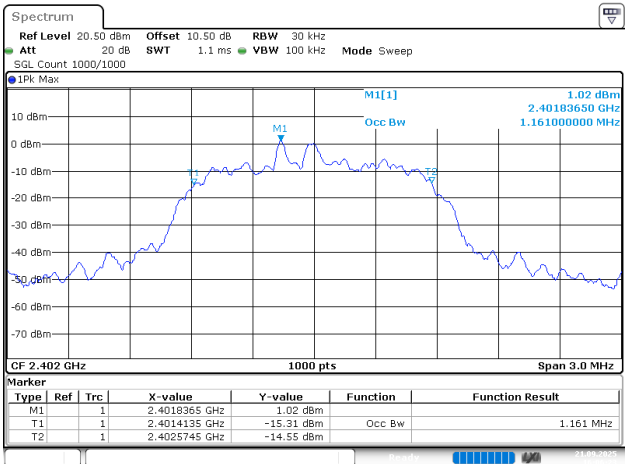
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:56:55

BDR\_DH1\_High



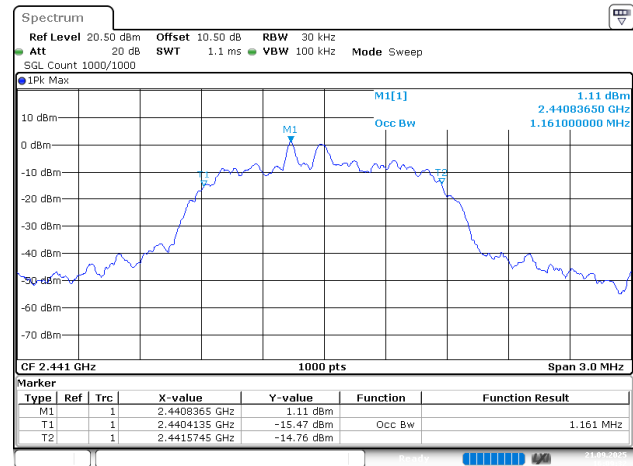
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:58:35

2EDR\_DH1\_Low



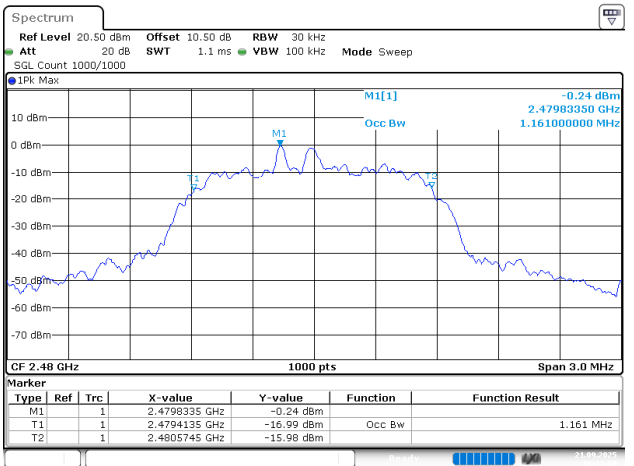
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:06:23

2EDR\_DH1\_Middle



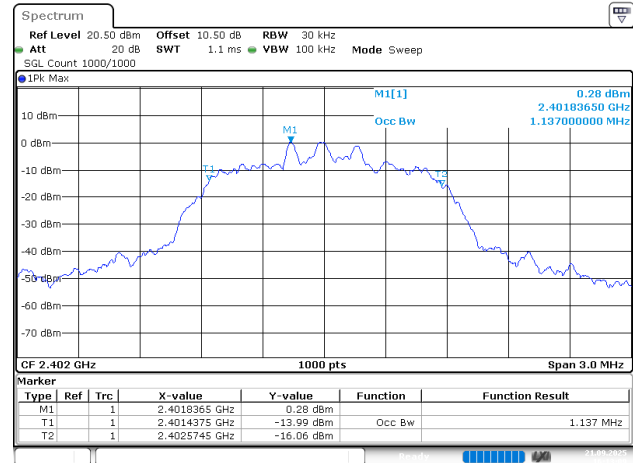
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:09:32

2EDR\_DH1\_High



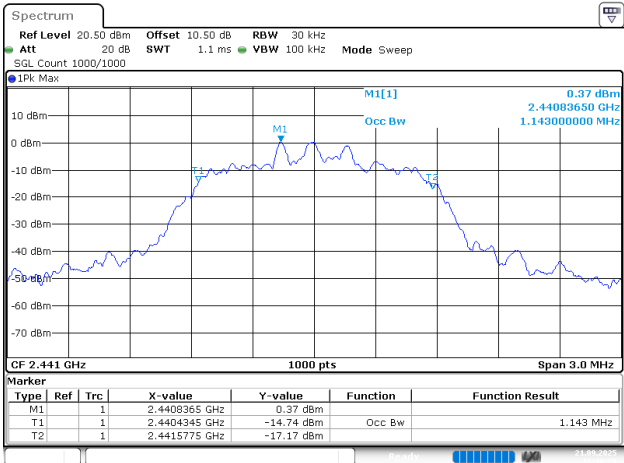
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:11:00

3EDR\_DH1\_Low



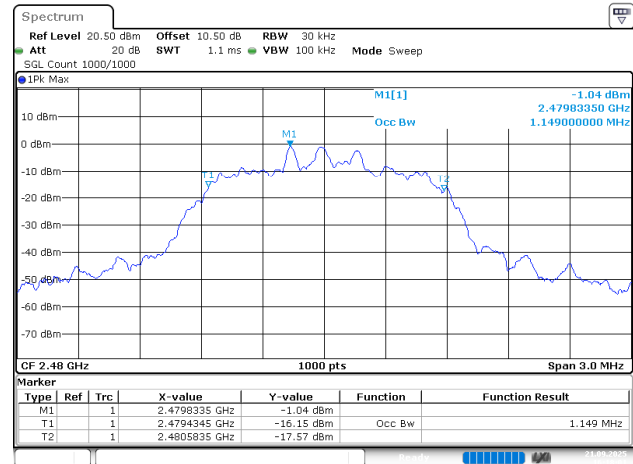
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:13:09

3EDR\_DH1\_Middle



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:16:27

3EDR\_DH1\_High



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:18:01

5.5 Channel Separation

Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 38D1-1      | Test Date:   | 2025/09/21   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | Pass         |

Environmental Conditions:

|                      |      |                           |    |                        |       |
|----------------------|------|---------------------------|----|------------------------|-------|
| Temperature:<br>(°C) | 26.3 | Relative Humidity:<br>(%) | 71 | ATM Pressure:<br>(kPa) | 100.2 |
|----------------------|------|---------------------------|----|------------------------|-------|

Test Equipment List and Details:

| Manufacturer | Description        | Model           | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|-----------------|---------------|------------------|----------------------|
| Eastsheep    | Coaxial Attenuator | 5W-N-JK-6G-10dB | F-08-EM503    | 2025/06/07       | 2026/06/06           |
| R&S          | Spectrum Analyzer  | FSV40           | 101589        | 2025/07/28       | 2026/07/27           |

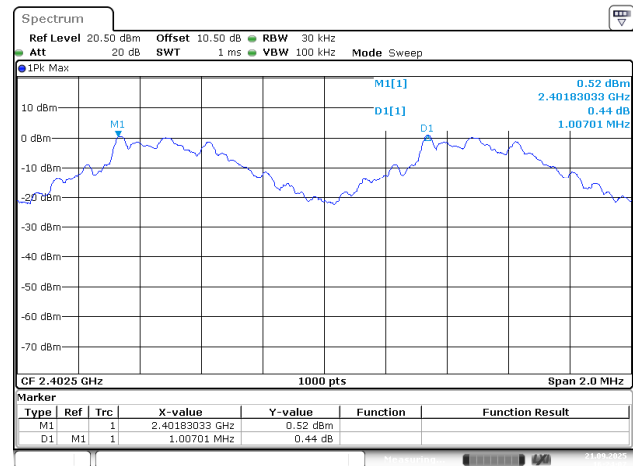
\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

| Mode    | Channel | Result (MHz) | Limit (MHz) | Verdict |
|---------|---------|--------------|-------------|---------|
| BDR_DH1 | Low     | 1.007        | 0.833       | Pass    |
|         | Middle  | 0.999        | 0.833       | Pass    |
|         | High    | 0.999        | 0.833       | Pass    |

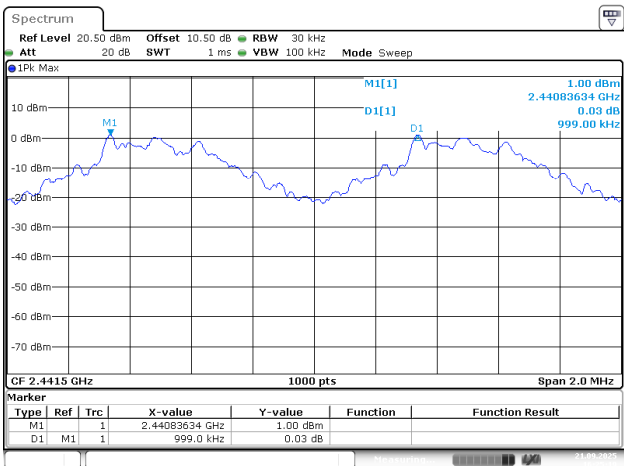
Note: Only the BDR (GFSK) mode result is reported since EDR ( $\pi/4$ -DQPSK) and EDR (8PSK) modes have the exact same channel plan, and the limit is the maximum 20dB bandwidth \*2/3.

BDR\_DH1\_Low



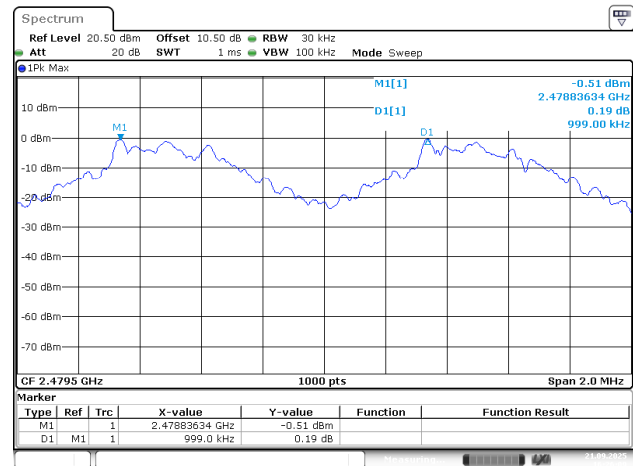
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:24:07

BDR\_DH1\_Middle



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:25:19

BDR\_DH1\_High



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:26:09

5.6 Number of Hopping Frequency

Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 38D1-1      | Test Date:   | 2025/09/21   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | Pass         |

Environmental Conditions:

|                      |      |                           |    |                        |       |
|----------------------|------|---------------------------|----|------------------------|-------|
| Temperature:<br>(°C) | 26.3 | Relative Humidity:<br>(%) | 71 | ATM Pressure:<br>(kPa) | 100.2 |
|----------------------|------|---------------------------|----|------------------------|-------|

Test Equipment List and Details:

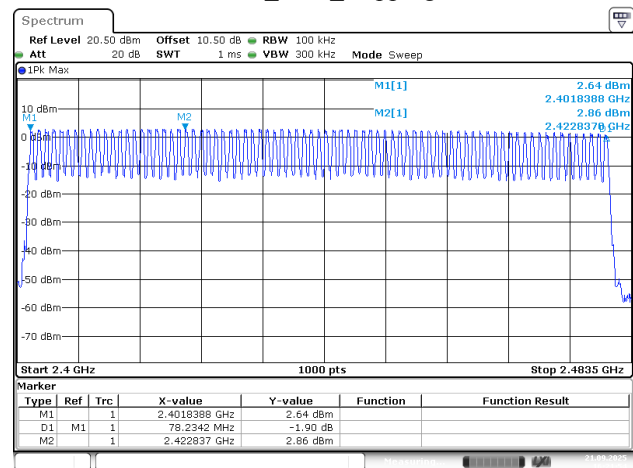
| Manufacturer | Description        | Model           | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|-----------------|---------------|------------------|----------------------|
| Eastsheep    | Coaxial Attenuator | 5W-N-JK-6G-10dB | F-08-EM503    | 2025/06/07       | 2026/06/06           |
| R&S          | Spectrum Analyzer  | FSV40           | 101589        | 2025/07/28       | 2026/07/27           |

\* 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:

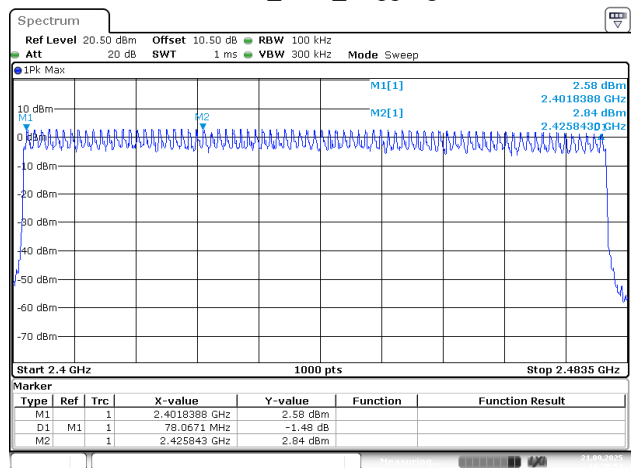
| Mode     | Channel | Result | Limit | Verdict |
|----------|---------|--------|-------|---------|
| BDR_DH1  | Hopping | 79     | 15    | Pass    |
| 2EDR_DH1 | Hopping | 79     | 15    | Pass    |
| 3EDR_DH1 | Hopping | 79     | 15    | Pass    |

BDR\_DH1\_Hopping



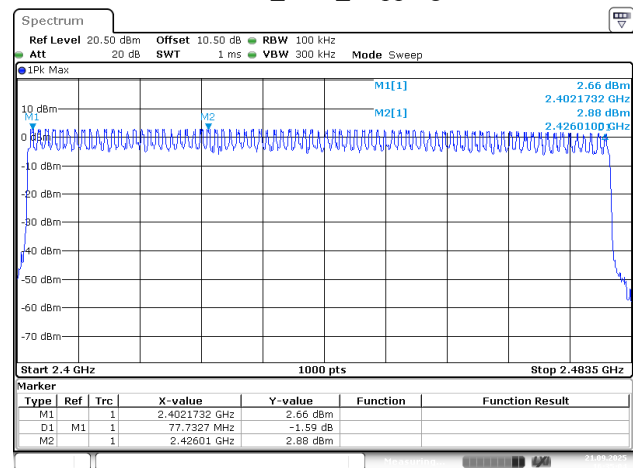
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:21:54

2EDR\_DH1\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:28:51

3EDR\_DH1\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:35:04

5.7 Time of Occupancy (dwell time)

Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 38D1-1      | Test Date:   | 2025/09/21   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | Pass         |

Environmental Conditions:

|                      |      |                           |    |                        |       |
|----------------------|------|---------------------------|----|------------------------|-------|
| Temperature:<br>(°C) | 26.3 | Relative Humidity:<br>(%) | 71 | ATM Pressure:<br>(kPa) | 100.2 |
|----------------------|------|---------------------------|----|------------------------|-------|

Test Equipment List and Details:

| Manufacturer | Description        | Model           | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|-----------------|---------------|------------------|----------------------|
| Eastsheep    | Coaxial Attenuator | 5W-N-JK-6G-10dB | F-08-EM503    | 2025/06/07       | 2026/06/06           |
| R&S          | Spectrum Analyzer  | FSV40           | 101589        | 2025/07/28       | 2026/07/27           |

\* 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:

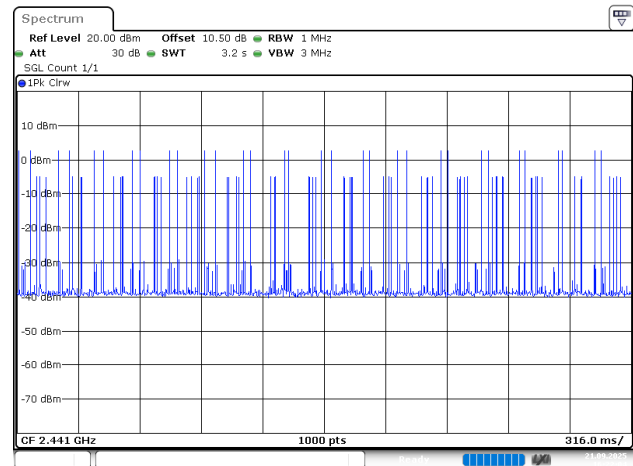
| Test Mode | Channel | Burst Width (ms) | Total Hops (Num) | Result (s) | Limit (s) | Verdict |
|-----------|---------|------------------|------------------|------------|-----------|---------|
| BDR_DH1   | Hopping | 0.391            | 320              | 0.125      | ≤ 0.4     | Pass    |
| BDR_DH3   | Hopping | 1.655            | 160              | 0.265      | ≤ 0.4     | Pass    |
| BDR_DH5   | Hopping | 2.913            | 100              | 0.291      | ≤ 0.4     | Pass    |
| 2EDR_DH1  | Hopping | 0.401            | 310              | 0.124      | ≤ 0.4     | Pass    |
| 2EDR_DH3  | Hopping | 1.661            | 160              | 0.266      | ≤ 0.4     | Pass    |
| 2EDR_DH5  | Hopping | 2.918            | 120              | 0.350      | ≤ 0.4     | Pass    |
| 3EDR_DH1  | Hopping | 0.402            | 310              | 0.125      | ≤ 0.4     | Pass    |
| 3EDR_DH3  | Hopping | 1.658            | 190              | 0.315      | ≤ 0.4     | Pass    |
| 3EDR_DH5  | Hopping | 2.918            | 120              | 0.350      | ≤ 0.4     | Pass    |

Note 1: A period time = 0.4\*79 = 31.6(S), Result = Burst Width \* Total hops

Note 2: Total hops = Hopping Number in 3.16s\*10

Note 3: Hopping Number in 3.16s = Total of highest signals in 3.16s(Second high signals were other channel)

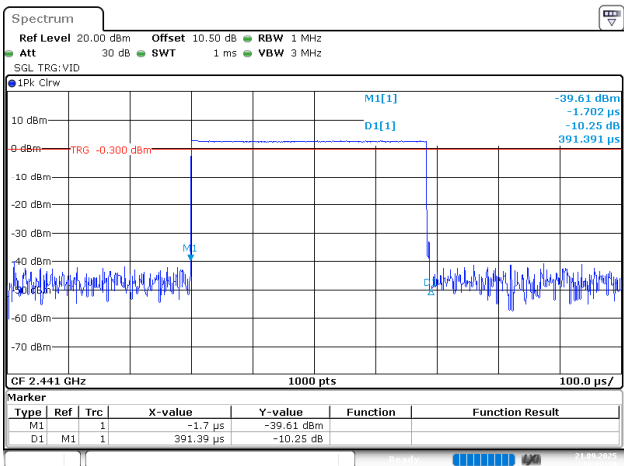
BDR\_DH1\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou

Date: 21.SEP.2025 16:22:04

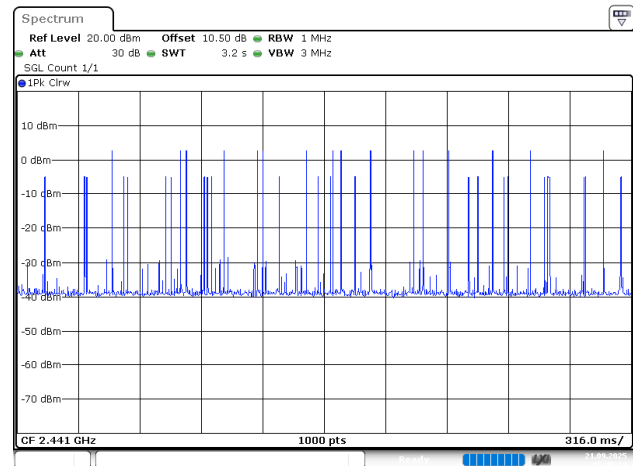
BDR\_DH1\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou

Date: 21.SEP.2025 16:22:40

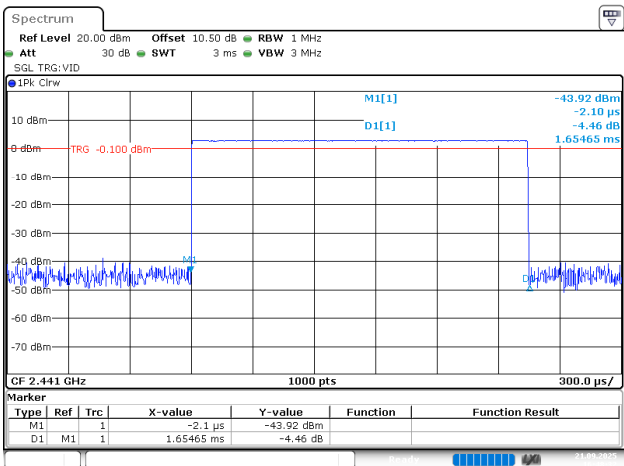
BDR\_DH3\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou

Date: 21.SEP.2025 16:48:15

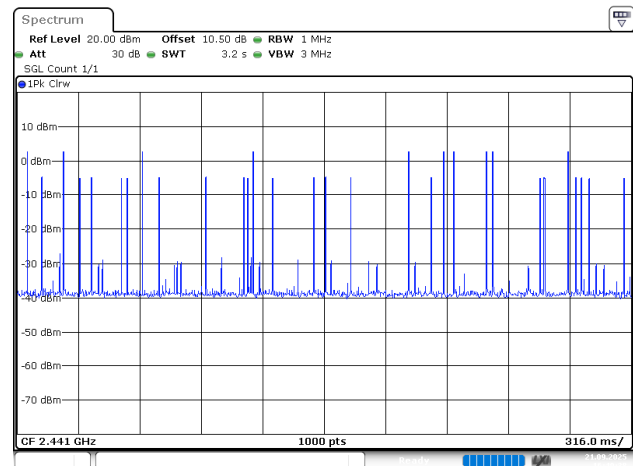
BDR\_DH3\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou

Date: 21.SEP.2025 16:48:33

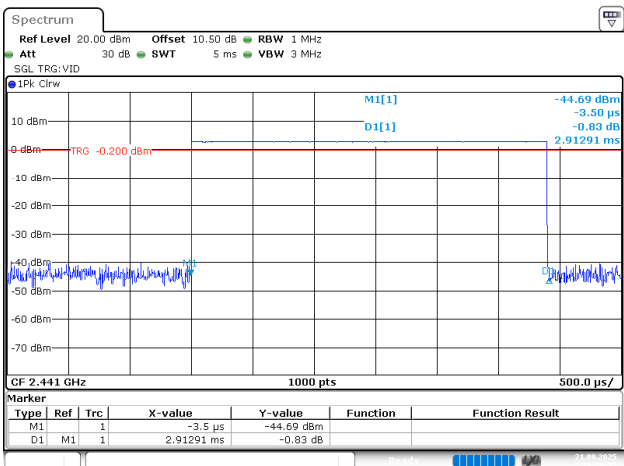
BDR\_DH5\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou

Date: 21.SEP.2025 16:49:38

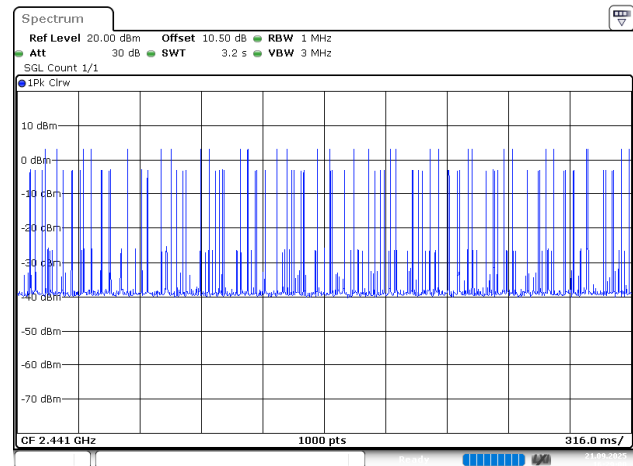
BDR\_DH5\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou

Date: 21.SEP.2025 16:49:55

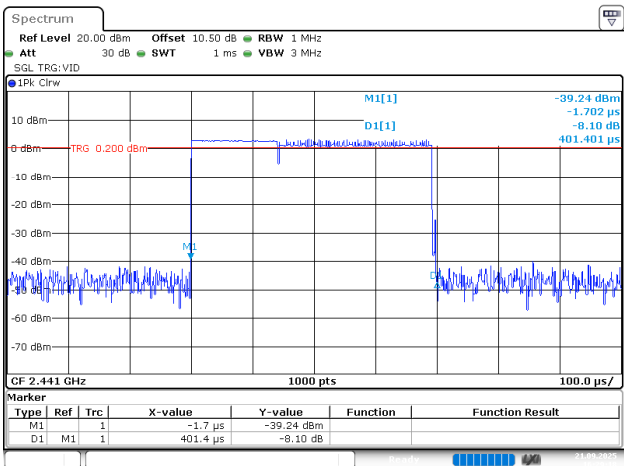
2EDR\_DH1\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou

Date: 21.SEP.2025 16:29:00

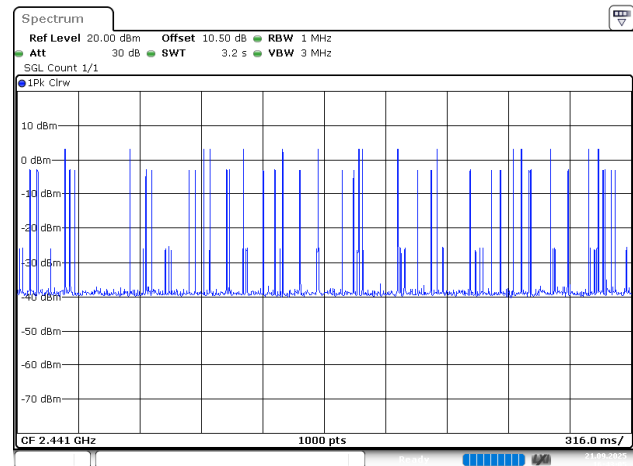
2EDR\_DH1\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou

Date: 21.SEP.2025 16:29:17

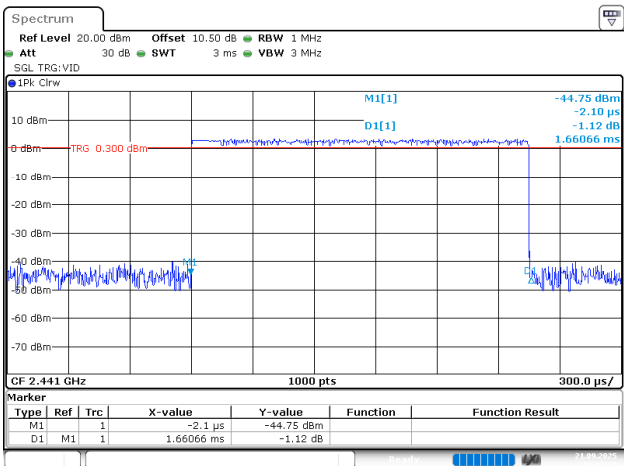
2EDR\_DH3\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou

Date: 21.SEP.2025 16:43:05

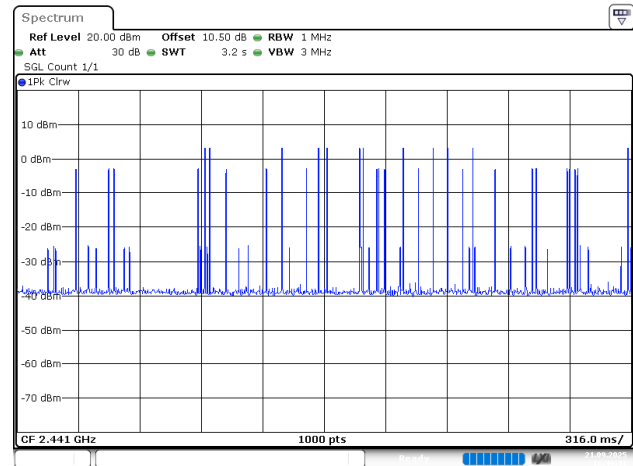
2EDR\_DH3\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou

Date: 21.SEP.2025 16:43:23

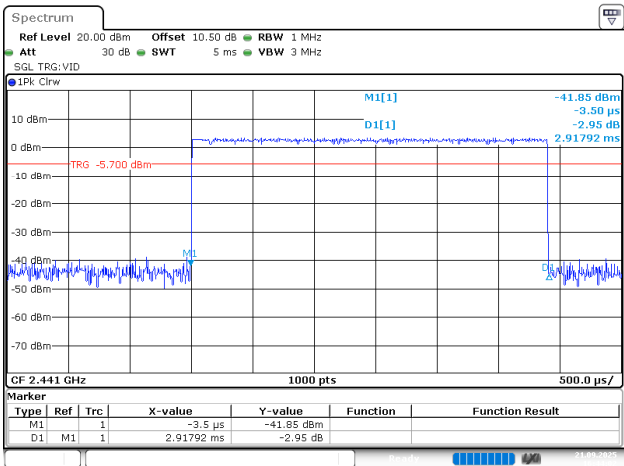
2EDR\_DH5\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou

Date: 21.SEP.2025 16:43:41

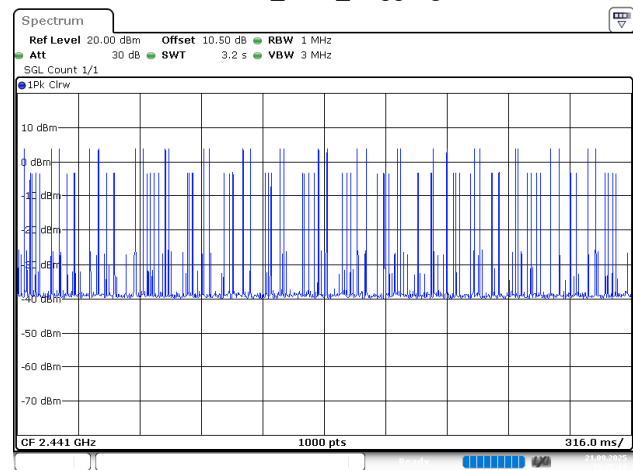
2EDR\_DH5\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou

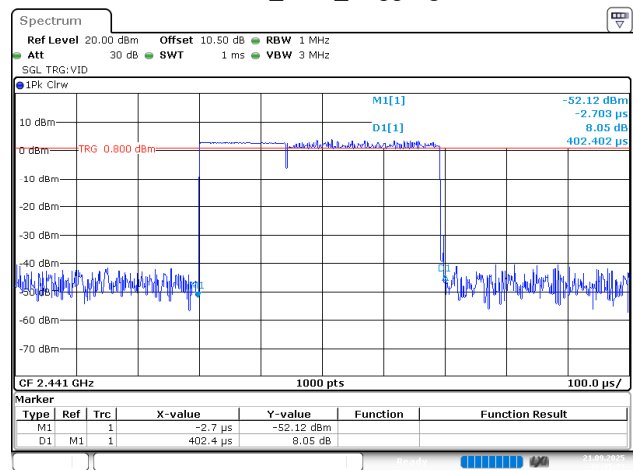
Date: 21.SEP.2025 16:44:01

3EDR\_DH1\_Hopping



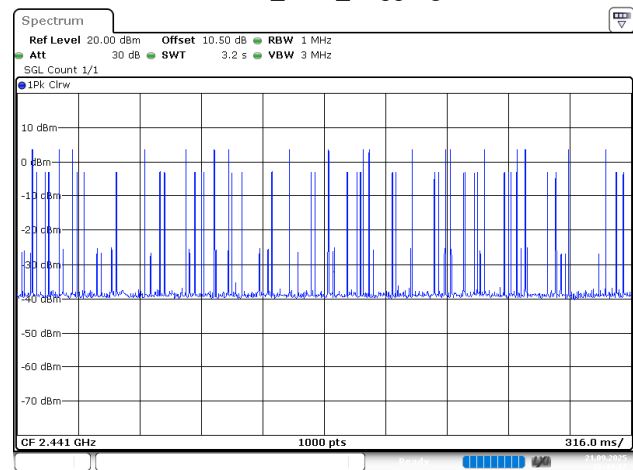
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:35:14

3EDR\_DH1\_Hopping



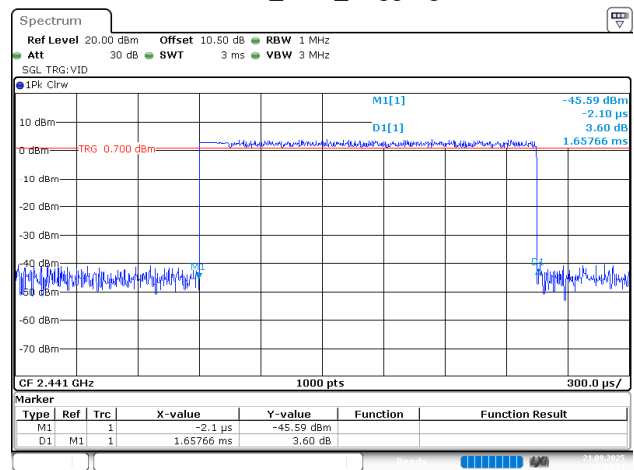
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:35:33

3EDR\_DH3\_Hopping



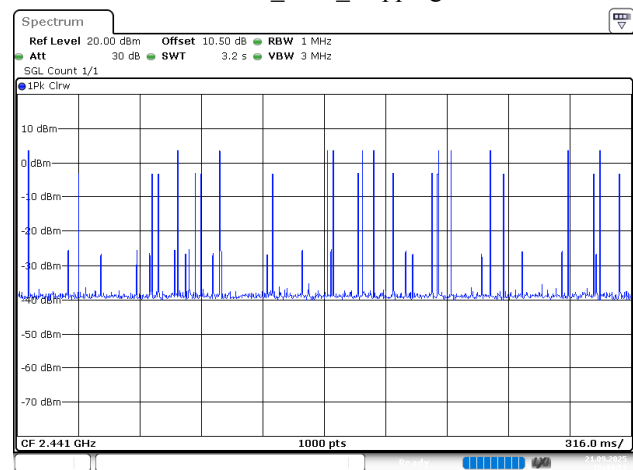
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:44:17

3EDR\_DH3\_Hopping



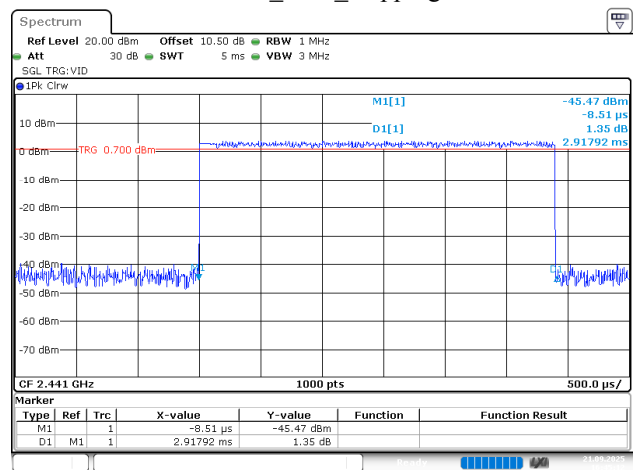
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:44:35

3EDR\_DH5\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:44:51

3EDR\_DH5\_Hopping



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:45:13

5.8 Maximum Conducted Output Power

Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 38D1-1      | Test Date:   | 2025/09/21   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | Pass         |

Environmental Conditions:

|                      |      |                           |    |                        |       |
|----------------------|------|---------------------------|----|------------------------|-------|
| Temperature:<br>(°C) | 26.3 | Relative Humidity:<br>(%) | 71 | ATM Pressure:<br>(kPa) | 100.2 |
|----------------------|------|---------------------------|----|------------------------|-------|

Test Equipment List and Details:

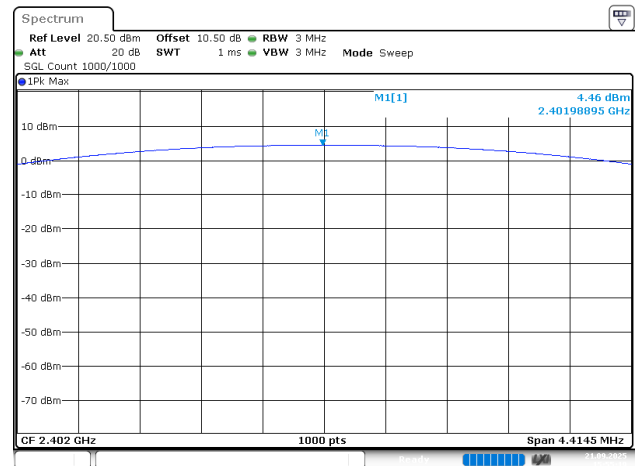
| Manufacturer | Description        | Model           | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|-----------------|---------------|------------------|----------------------|
| Eastsheep    | Coaxial Attenuator | 5W-N-JK-6G-10dB | F-08-EM503    | 2025/06/07       | 2026/06/06           |
| R&S          | Spectrum Analyzer  | FSV40           | 101589        | 2025/07/28       | 2026/07/27           |

\* 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:

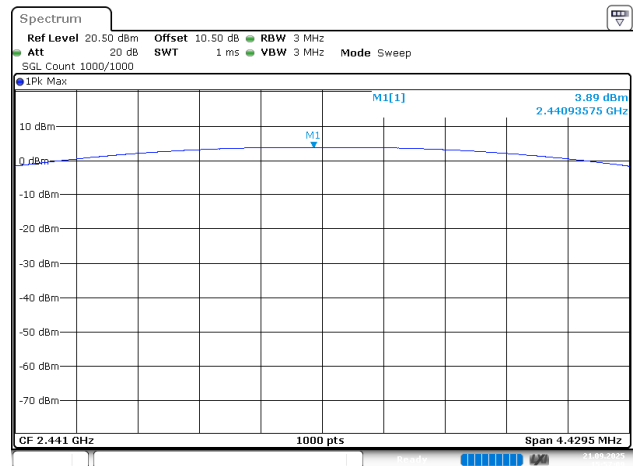
| Mode     | Test Frequency (MHz) | Peak Output Power (dBm) | Limit (dBm) | Verdict |
|----------|----------------------|-------------------------|-------------|---------|
| BDR_DH1  | 2402                 | 4.46                    | 21.00       | Pass    |
|          | 2441                 | 3.89                    | 21.00       | Pass    |
|          | 2480                 | 2.88                    | 21.00       | Pass    |
| 2EDR_DH1 | 2402                 | 3.70                    | 21.00       | Pass    |
|          | 2441                 | 3.71                    | 21.00       | Pass    |
|          | 2480                 | 2.25                    | 21.00       | Pass    |
| 3EDR_DH1 | 2402                 | 4.35                    | 21.00       | Pass    |
|          | 2441                 | 4.36                    | 21.00       | Pass    |
|          | 2480                 | 2.89                    | 21.00       | Pass    |
| Max.EIRP |                      | -4.03                   | 36.00       | Pass    |

BDR\_DH1\_Low



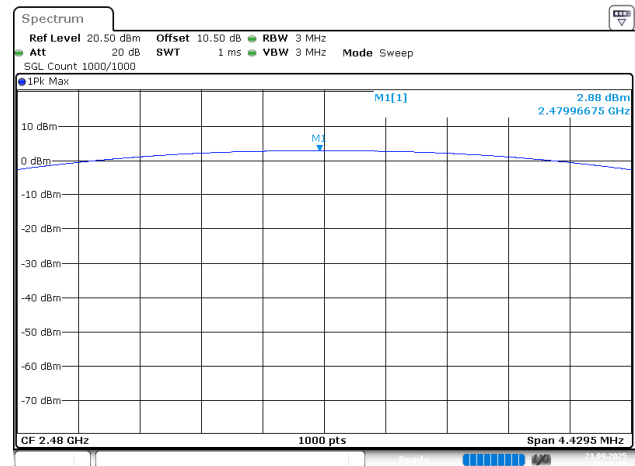
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:55:19

BDR\_DH1\_Middle



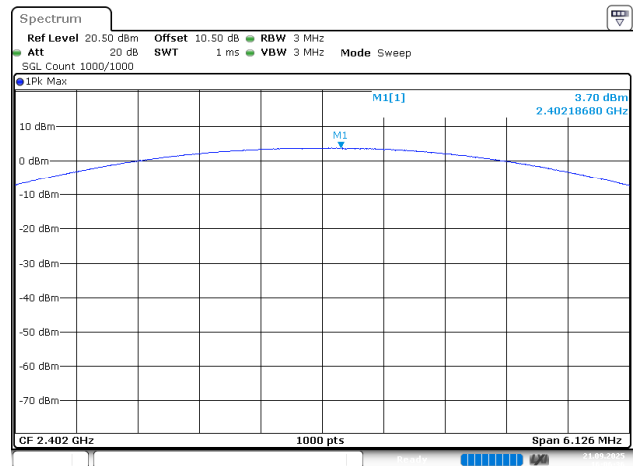
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:57:10

BDR\_DH1\_High



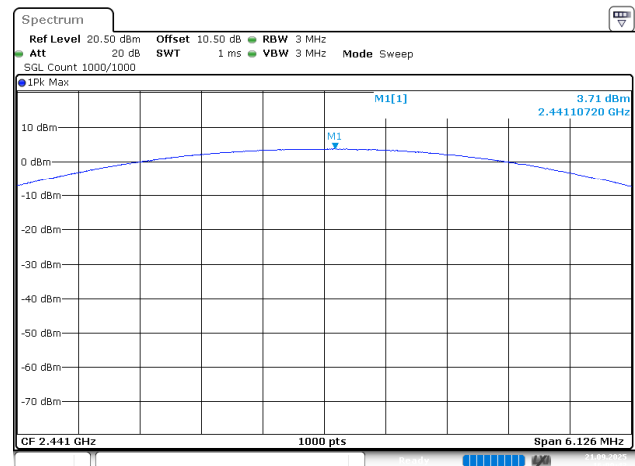
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:59:28

2EDR\_DH1\_Low



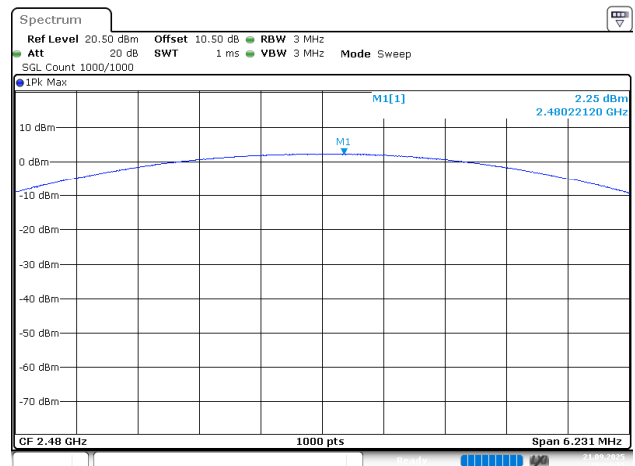
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:06:36

2EDR\_DH1\_Middle



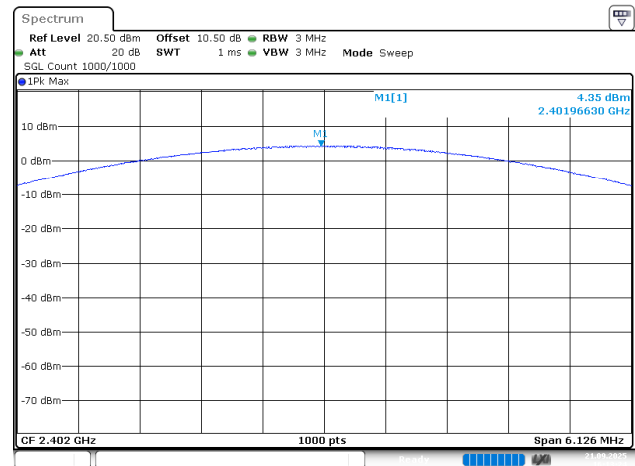
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:09:43

2EDR\_DH1\_High



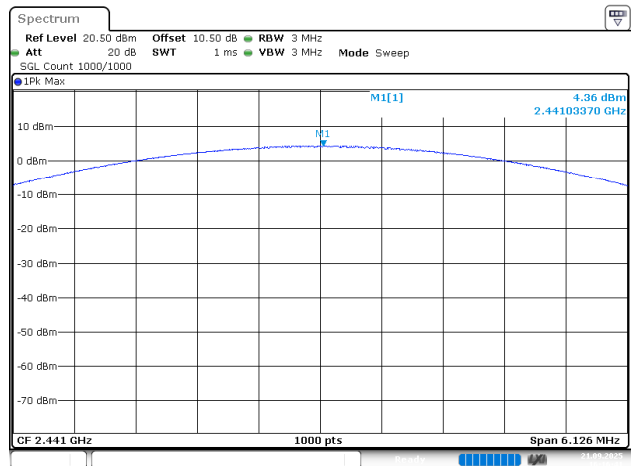
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:11:12

3EDR\_DH1\_Low



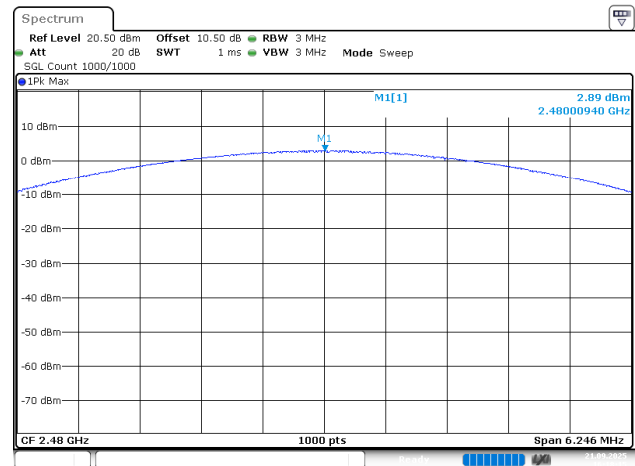
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:13:23

3EDR\_DH1\_Middle



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:16:41

3EDR\_DH1\_High



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:18:15

5.9 Conducted Spurious Emission

Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 38D1-1      | Test Date:   | 2025/09/21   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | Pass         |

Environmental Conditions:

|                      |      |                              |    |                        |       |
|----------------------|------|------------------------------|----|------------------------|-------|
| Temperature:<br>(°C) | 26.3 | Relative<br>Humidity:<br>(%) | 71 | ATM Pressure:<br>(kPa) | 100.2 |
|----------------------|------|------------------------------|----|------------------------|-------|

Test Equipment List and Details:

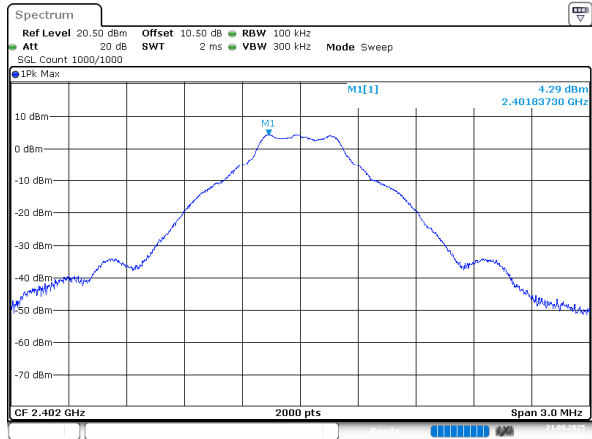
| Manufacturer | Description           | Model         | Serial<br>Number | Calibration<br>Date | Calibration Due<br>Date |
|--------------|-----------------------|---------------|------------------|---------------------|-------------------------|
| HUBER+SUHNER | Coaxial<br>Attenuator | 6610_SMA-50-1 | 0064             | 2025/06/13          | 2026/06/12              |
| R&S          | Spectrum<br>Analyzer  | FSV40         | 101589           | 2025/07/28          | 2026/07/27              |

\* 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:

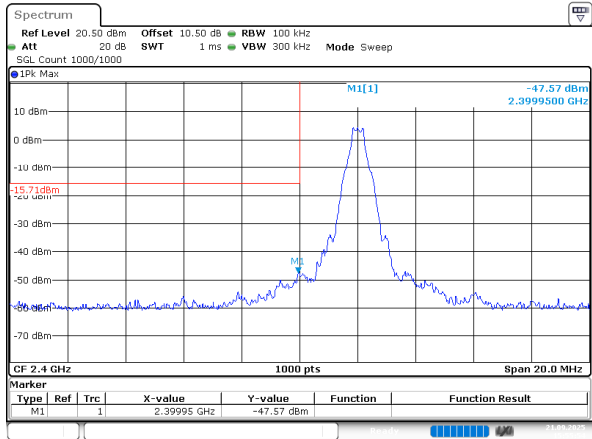
Note: The maximum path attenuation of 30MHz-25GHz was added into the offset.

BDR\_DH1\_Low



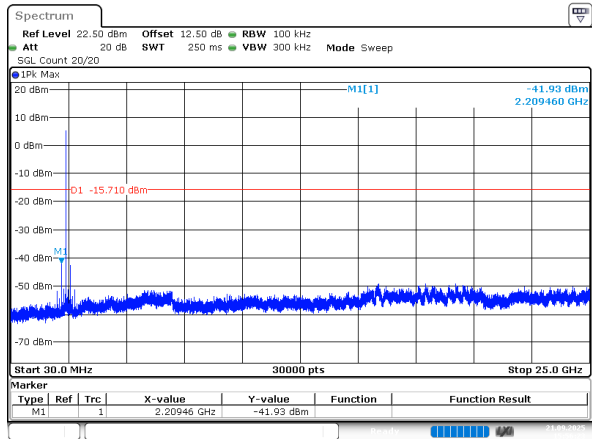
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:55:32

BDR\_DH1\_Low



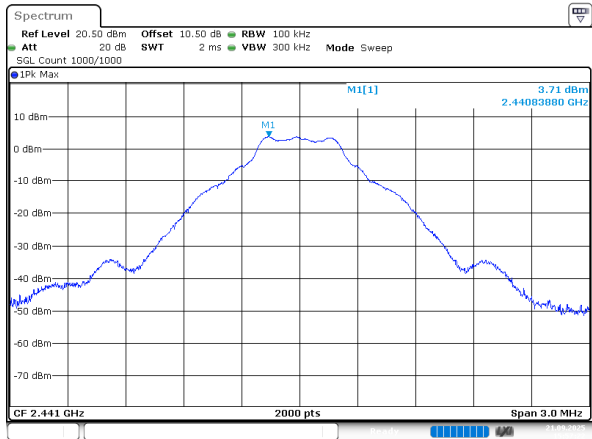
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Date: 21.SEP.2025 15:55:53

BDR\_DH1\_Low



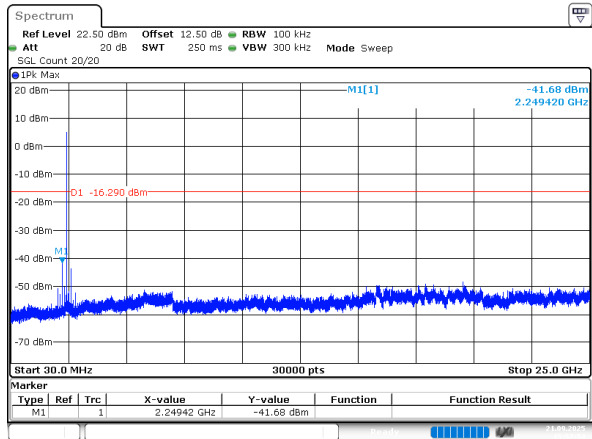
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:56:23

BDR\_DH1\_Middle



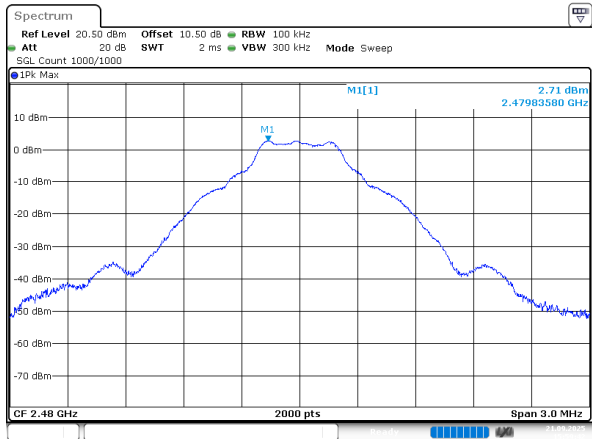
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Date: 21.SEP.2025 15:57:23

BDR\_DH1\_Middle



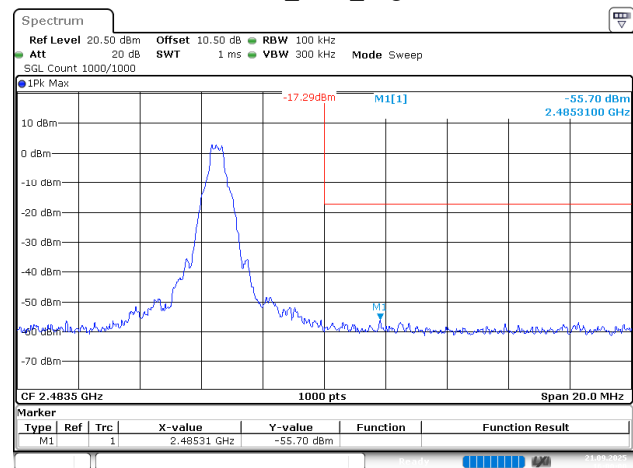
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:57:55

BDR\_DH1\_High



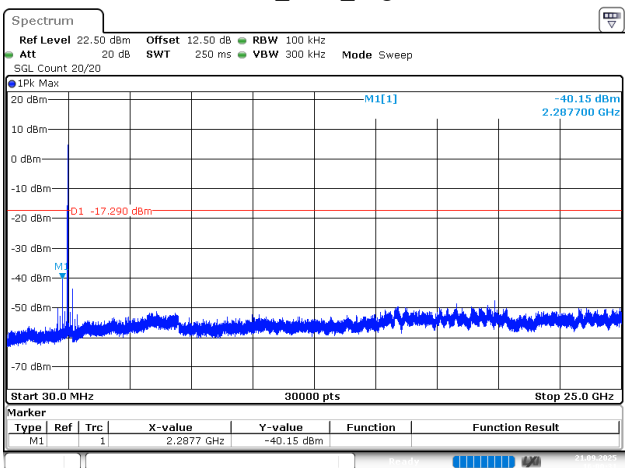
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 15:59:42

BDR\_DH1\_High



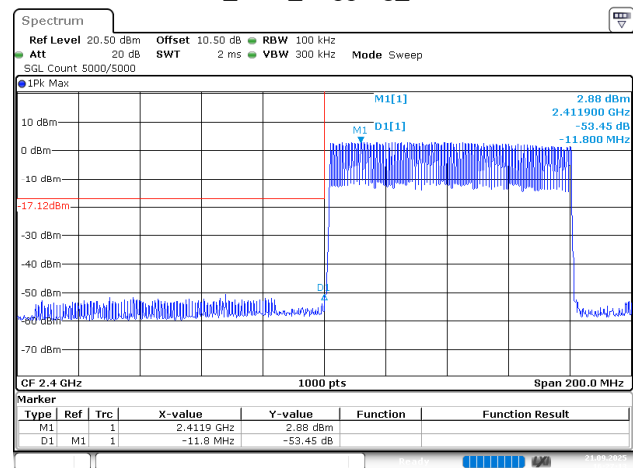
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Date: 21.SEP.2025 16:00:00

BDR\_DH1\_High



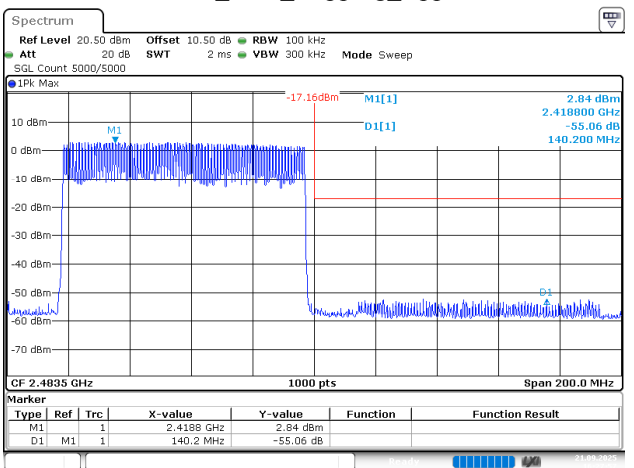
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:00:31

BDR\_DH1\_Hopping\_Lower



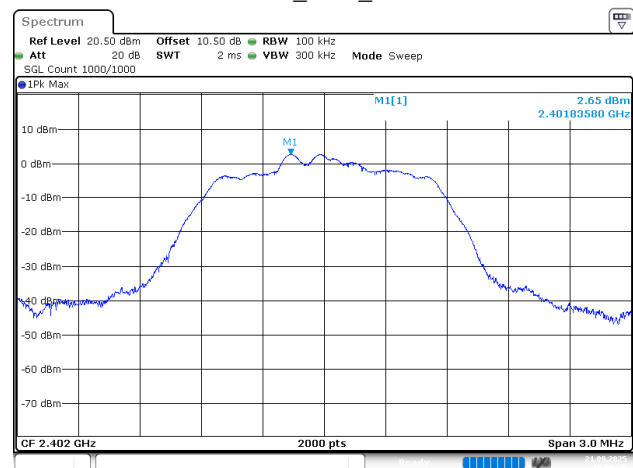
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:27:14

BDR\_DH1\_Hopping\_Upper



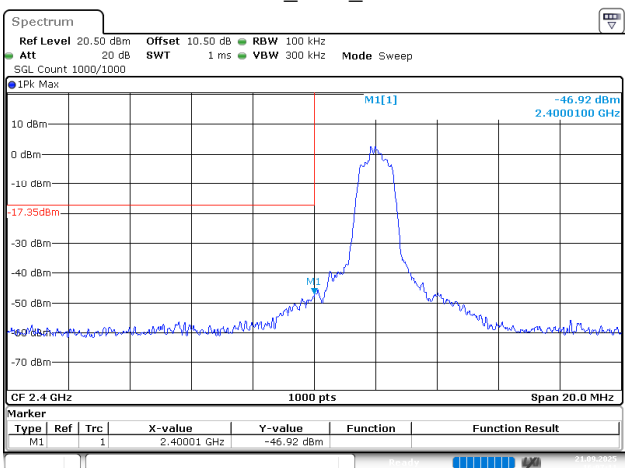
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:27:57

2EDR\_DH1\_Low



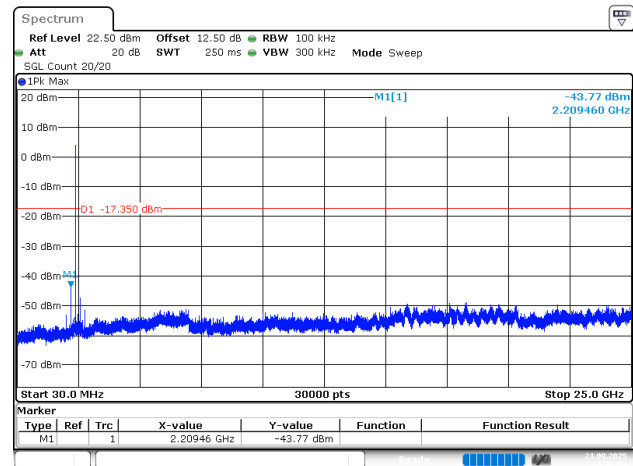
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:06:49

2EDR\_DH1\_Low



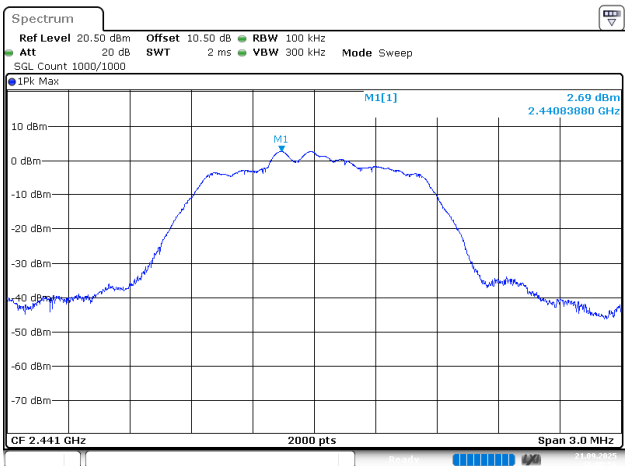
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:07:11

2EDR\_DH1\_Low



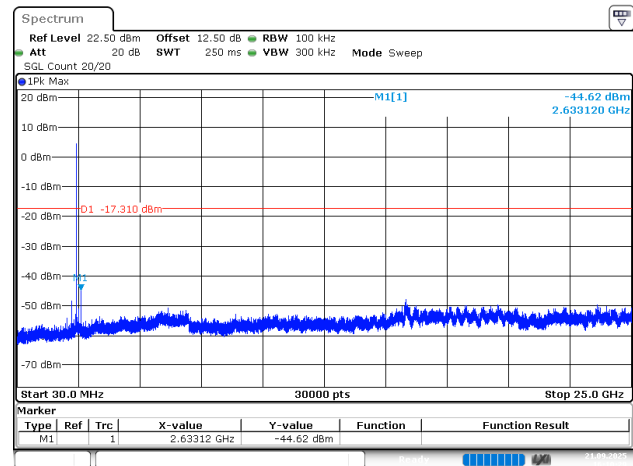
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Date: 21.SEP.2025 16:07:55

2EDR\_DH1\_Middle



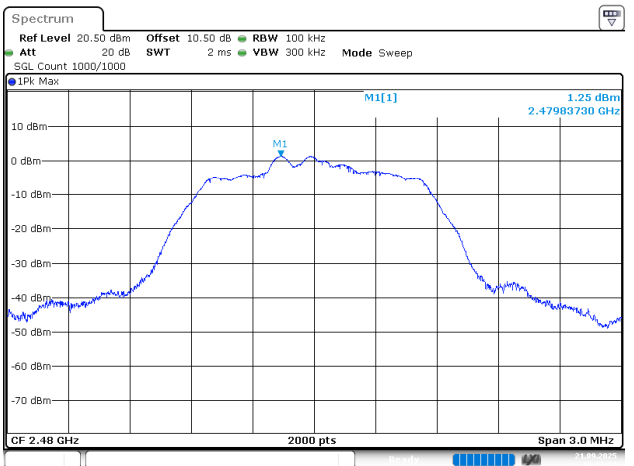
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:09:56

2EDR\_DH1\_Middle



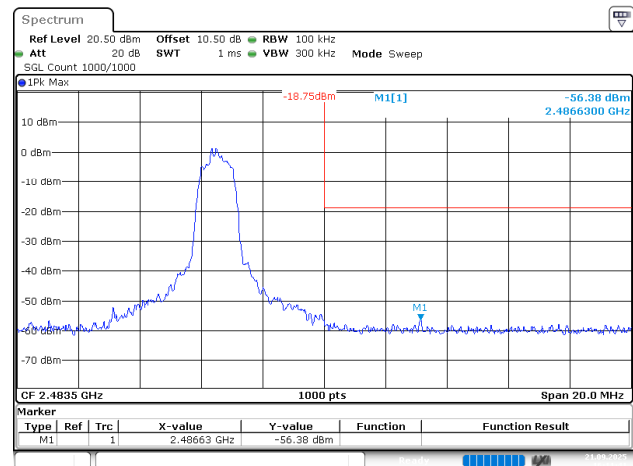
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:10:28

2EDR\_DH1\_High



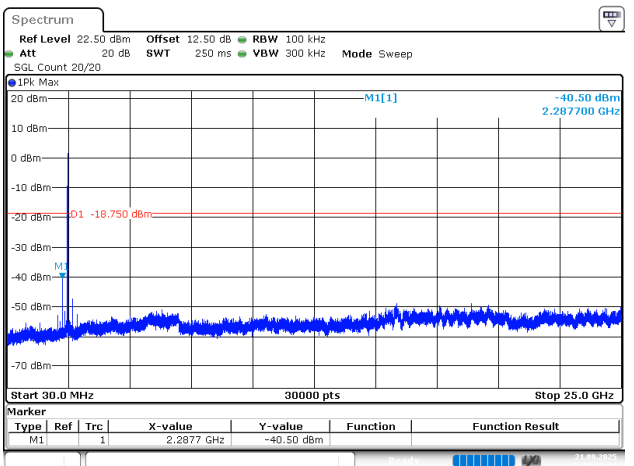
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Date: 21.SEP.2025 16:11:24

2EDR\_DH1\_High



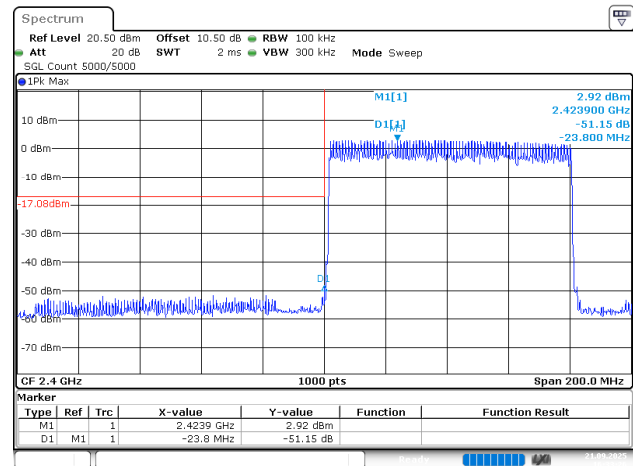
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:11:42

2EDR\_DH1\_High



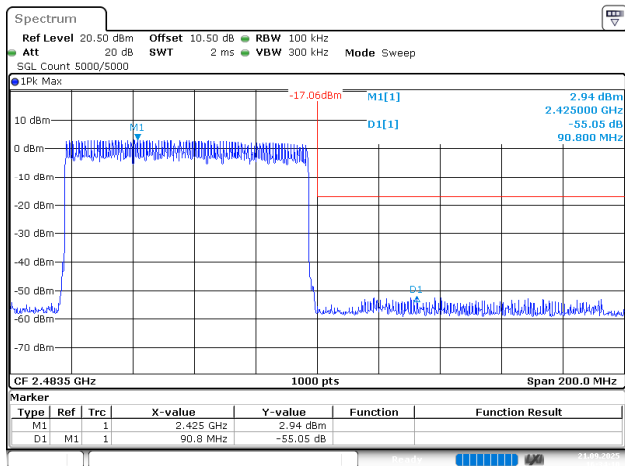
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:12:12

2EDR\_DH1\_Hopping\_Lower



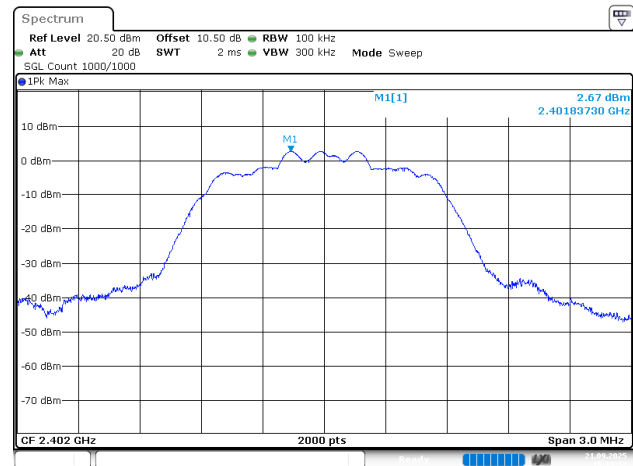
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:33:27

2EDR\_DH1\_Hopping\_Upper



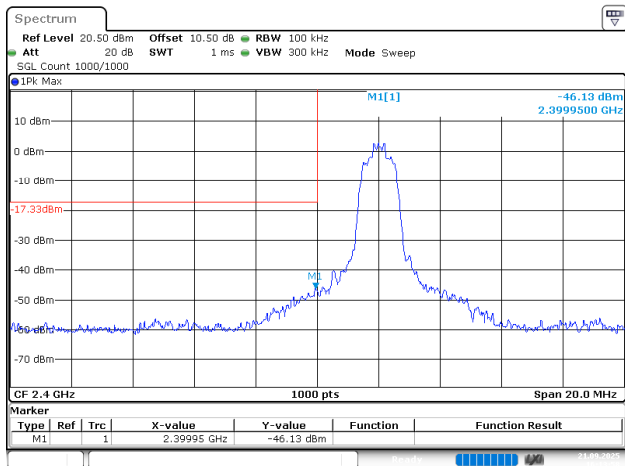
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Date: 21.SEP.2025 16:34:11

3EDR\_DH1\_Low



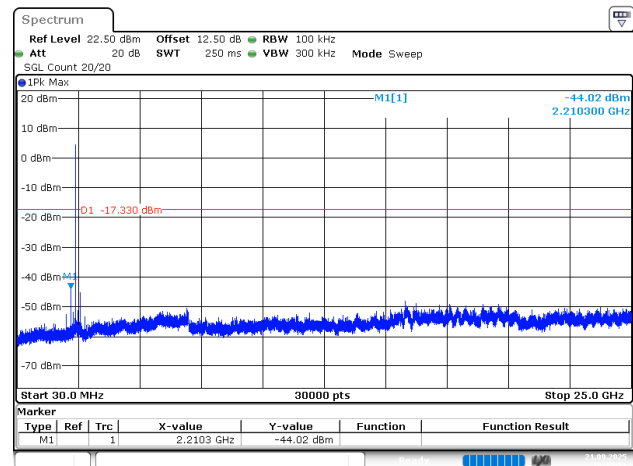
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:13:36

3EDR\_DH1\_Low



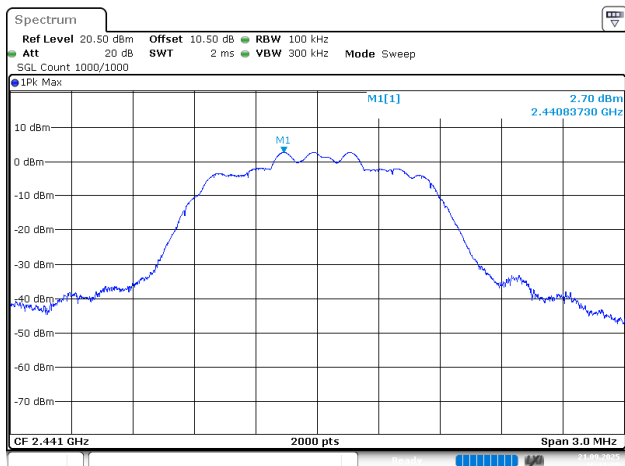
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:13:58

3EDR\_DH1\_Low



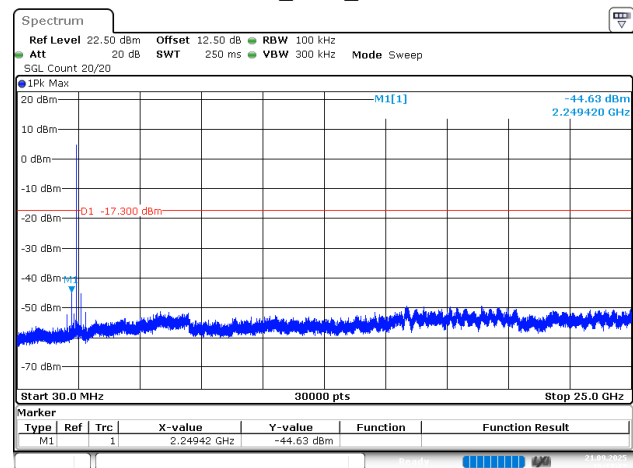
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:15:32

3EDR\_DH1\_Middle



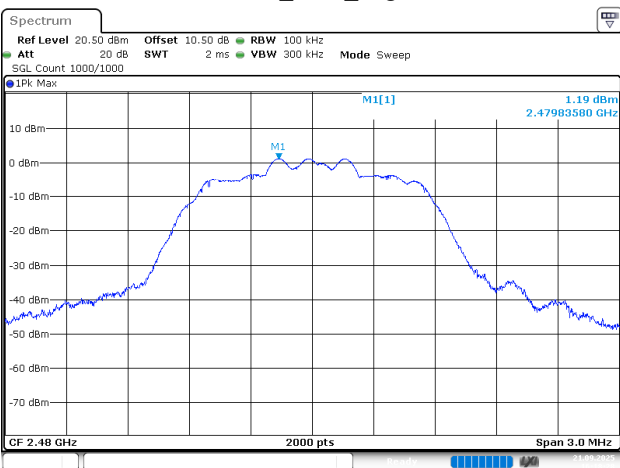
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Date: 21.SEP.2025 16:16:55

3EDR\_DH1\_Middle



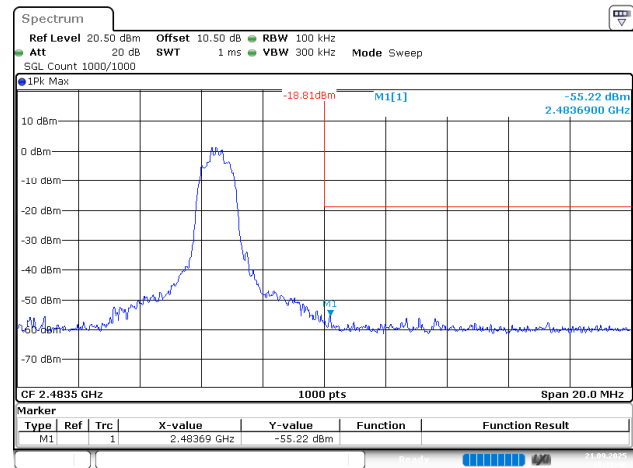
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:17:27

3EDR\_DH1\_High



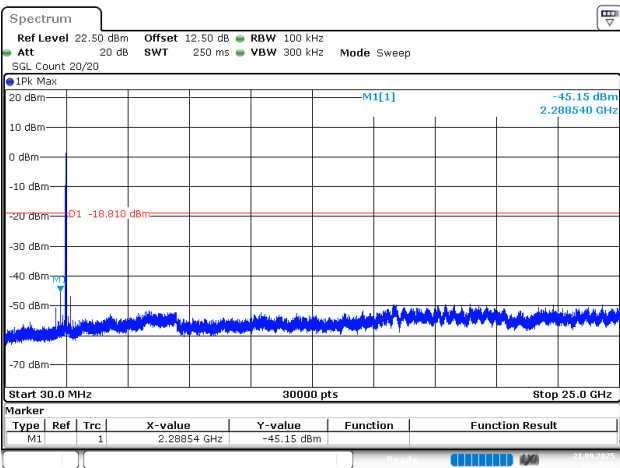
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:18:28

3EDR\_DH1\_High



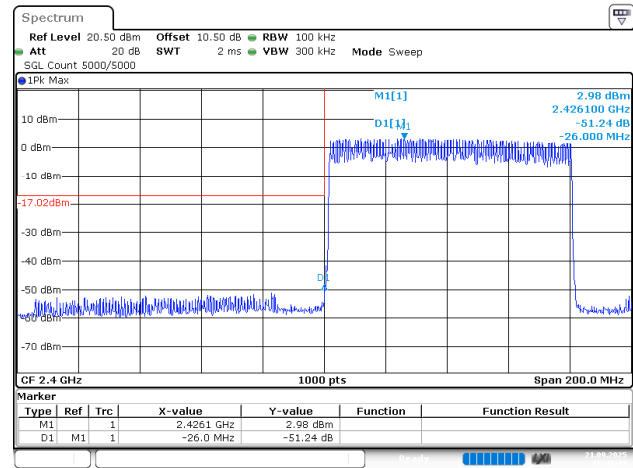
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:18:46

3EDR\_DH1\_High



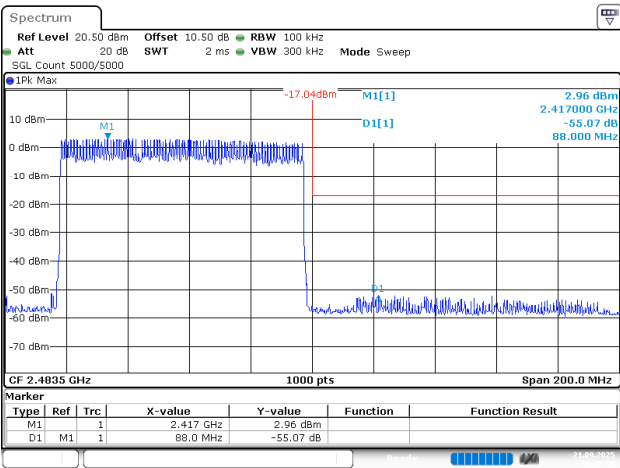
ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:19:17

3EDR\_DH1\_Hopping\_Lower



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:40:17

3EDR\_DH1\_Hopping\_Upper



ProjectNo.:2502W73519E-RF Tester:Cooper Zhou  
Date: 21.SEP.2025 16:40:59

## **EXHIBIT A - EUT PHOTOGRAPHS**

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Please refer to the attachment 2502W73519E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502W73519E-RF-INP EUT INTERNAL PHOTOGRAPHS.

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

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Please refer to the attachment 2502W73519E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

## EXHIBIT C - RF EXPOSURE EVALUATION

### SAR test exclusion

#### Applicable Standard

According to §1.1310, 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 KDB447498 D01 General RF Exposure Guidance v06:

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

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

#### Measurement Result

The max conducted power including tune-up tolerance is 4.5 dBm (2.82 mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$   
 $= 2.82/5 \cdot (\sqrt{2.480}) = 0.9 < 3.0$

Note:

The max conducted power including tune-up tolerance was declared by manufacturer.

**Result: Compliant. The stand-alone SAR evaluation is not necessary.**

## Exemption Limits For Routine Evaluation- SAR Evaluation

### Applicable Standard

RSS-102, Issue 6, Clause 6.3:

Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 11, based on the separation distance, are exempt from SAR evaluation. The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.

**Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance**

| Frequency (MHz) | ≤ 5 mm (mW) | 10 mm (mW) | 15 mm (mW) | 20 mm (mW) | 25 mm (mW) | 30 mm (mW) | 35 mm (mW) | 40 mm (mW) | 45 mm (mW) | > 50 mm (mW) |
|-----------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| ≤ 300           | 45          | 116        | 139        | 163        | 189        | 216        | 246        | 280        | 319        | 362          |
| 450             | 32          | 71         | 87         | 104        | 124        | 147        | 175        | 208        | 248        | 296          |
| 835             | 21          | 32         | 41         | 54         | 72         | 96         | 129        | 172        | 228        | 298          |
| 1900            | 6           | 10         | 18         | 33         | 57         | 92         | 138        | 194        | 257        | 323          |
| 2450            | 3           | 7          | 16         | 32         | 56         | 89         | 128        | 170        | 209        | 245          |
| 3500            | 2           | 6          | 15         | 29         | 50         | 72         | 94         | 114        | 134        | 158          |
| 5800            | 1           | 5          | 13         | 23         | 32         | 41         | 54         | 74         | 102        | 128          |

### Measurement Result:

The max conducted power including tune-up tolerance is 4.5 dBm (2.82 mW), Antenna Gain is -8.49dBi, EIRP is -3.99dBm(0.4mW)

The exemption power(P) limits for routine evaluation in 2402-2480MHz is:  
 $(2480-2450)/(3500-2450)=(P-3)/(2-3)$   
 $\Rightarrow P=2.97 \text{ mW}@2480 \text{ MHz}$   
 $> 2.82\text{mW}$

Note: the max conducted power including tune-up tolerance was declared by manufacturer.

**So the stand-alone SAR evaluation can be exempted.**

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