NVLAP TESTING
NVLAP LAB CODE 600341-0

BACL Bay Area Compliance Labs Corp.

TEST REPORT

Applicant:	**MAXWEST COMMUNICATION LIMITED**
Address:	**FLAT/RM 707 7/F, FORTRESS TOWER 250 KING'S ROAD,NORTH POINT, HONG KONG**
Product Name:	**Phone**
FCC ID:	**2ASP8RANGERF1**
IC:	**34168-RANGERF1**
HVIN:	**RANGER F1**
Standard(s):	**47 CFR Part 15, Subpart C(15.247) RSS-247 Issue 4, July 24, 2025 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:	**2502A31388E-RF-00B**
Report Date:	**2026/3/18**

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

Reviewed By:	**Alice Tan**
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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2502A31388E-RF-00B	Original Report	2026/3/18

1. GENERAL INFORMATION

1.1 General Description of Equipment under Test

EUT Name:	Phone
EUT Model:	RANGER F1
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	1.14 dBm
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK
Rated Input Voltage:	3.7Vdc from battery or 5Vdc from adapter
Serial Number:	CE/RE Test: 3EWH-1 RF Conducted Test: 3EWH-2
EUT Received Date:	2025/12/22
EUT Received Status:	Good

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Adapter #1	ShenZhen LvXiangYuan Technology Co LTD	LX050100	Input: AC100-240V-50/60Hz 0.35A Output: DC 5.0V/1.0A
Adapter #2	/	RANGER F1	Input: AC 100-240V 50/60Hz 0.15A Output: DC 5V/500mA

Note: Per 15B&ICES-003 issue 7 report, Powered by Adapter #1 was the worst for AC Line Conducted Emissions and Radiated Spurious Emissions Above 1G, Powered by Adapter #2 was the worst for Radiated Spurious Emissions Below 1G, so only performed it this report.

1.3 Antenna Information Detail▲

Antenna Type	input impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
Monopole	50	2400-2480	-1.1
The design of compliance with §15.203:			
☒ Unit uses a permanently attached antenna. ☐ Unit uses a unique coupling to the intentional radiator. ☐ Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.			

1.4 Equipment Modifications

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

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
FCC §15.207(a) RSS-Gen Clause 8.8	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d) RSS-Gen Clause 8.10 RSS-247 Clause 6.6	Radiated Spurious Emissions	Compliant
FCC §15.247(a)(1) RSS-247 Clause 6.2.3.1 a)	20 dB Emission Bandwidth	Compliant
RSS-Gen Clause 6.7	99% Occupied Bandwidth	Compliant
FCC §15.247(a)(1) RSS-247 Clause 6.2.3.1 a)	Channel Separation	Compliant
FCC §15.247(a)(1)(iii) RSS-247 Clause 6.2.3.1 b)	Number Of Hopping Frequency	Compliant
FCC §15.247(a)(1)(iii) RSS-247 Clause 6.2.3.1 b)	Time Of Occupancy (Dwell Time)	Compliant
FCC §15.247(b)(1) RSS-247 Clause 6.2.3.2	Maximum Conducted Output Power	Compliant
FCC §15.247(d) RSS-247 Clause 6.6	Conducted Spurious Emission	Compliant
FCC §15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant
§15.247 (i) & §1.1310 & §2.1093	SAR Evaluation	Compliant
RSS-102 Clause 6.3	Exemption Limits For Routine Evaluation- SAR Evaluation	Compliant

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency Detail

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	**2402**	40	2442
1	2403	41	2443
…	…	…	…
…	…	…	…
…	…	78	**2480**
39	**2441**	/	/

Note 1: The above frequencies in bold were performed the test.
Note 2: For AC line conducted emissions, the maximum output power mode and channel was tested.
Note 3: For Radiated Spurious Emissions 9kHz~1GHz and 18~25GHz, the maximum output power mode and channel was tested.

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:

EUT Exercise Software:	Engineering Mode		
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)	Default	Default	Default
π/4-DQPSK(2EDR)	Default	Default	Default
8DPSK(3EDR)	Default	Default	Default

3.3 Support Equipment List and Details

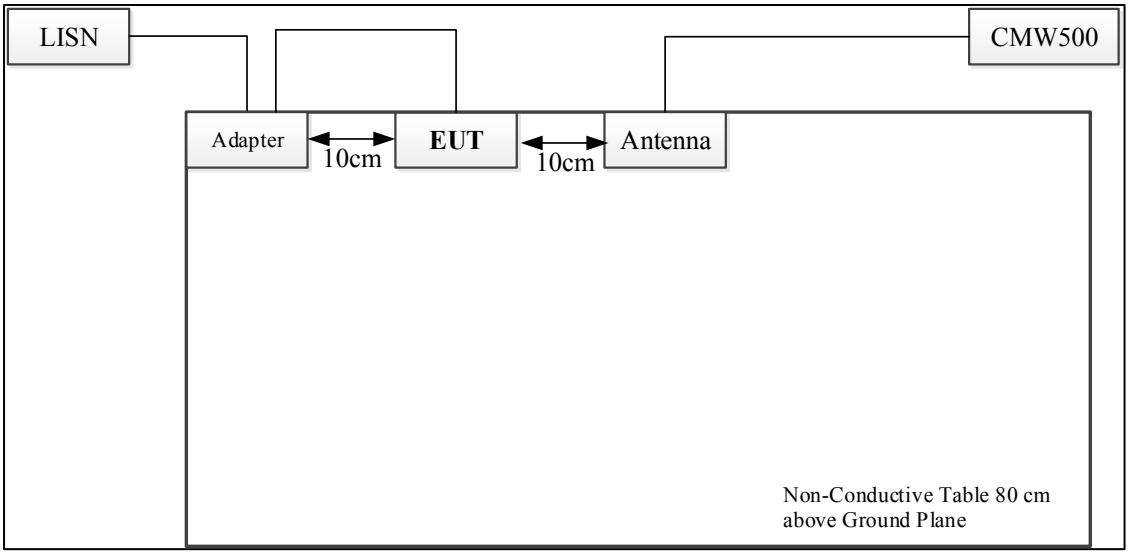
Manufacturer	Description	Model	Serial Number
R&S	Wideband Radio Communication Tester	CMW500	149216
TEJIATE	Antenna	SMA	Unknown

3.4 Support Cable List and Details

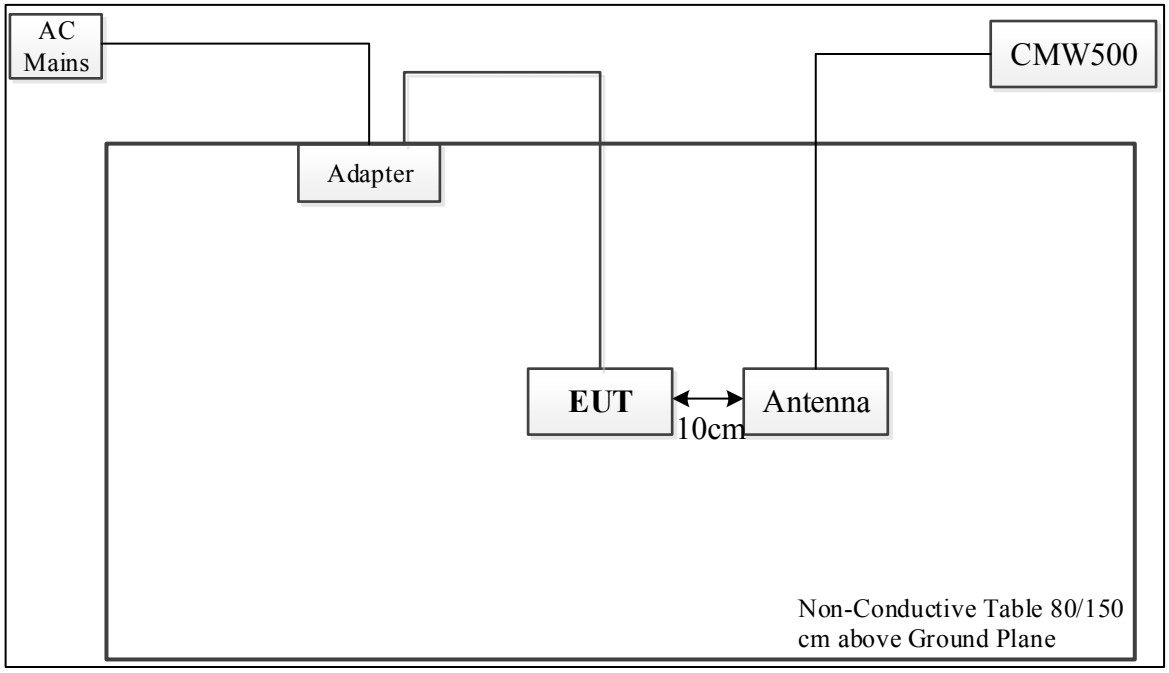
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	NO	NO	1	Adapter	EUT
Antenna Cable	NO	NO	10	CMW500	Antenna

3.5 Block Diagram of Test Setup

AC line conducted emissions:



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	±0.55 dB
Power Spectral Density, conducted	±0.55 dB
Unwanted Emissions, radiated	9kHz~30MHz: 3.06dB, 30MHz~1GHz: 6.13 dB,1GHz~6GHz: 4.79 dB, 6GHz~18GHz: 4.63 dB, 18GHz~26.5GHz:4.79 dB, 26.5GHz~40GHz:4.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.83 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 μH/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.

	Conducted limit (dBμV)	
Frequency of emission (MHz)	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 μV within the frequency band 535-1705 kHz, as measured using a 50 μH/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, obtainig 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 μH / 50 Ω 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 (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56[1]	56 to 46[1]
0.5 – 5	56	46
5 – 30	60	50

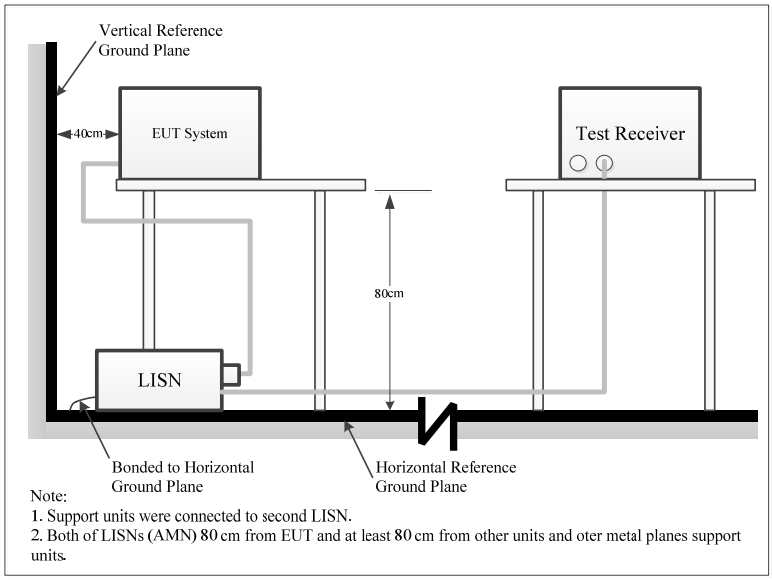
Note 1: The level decreases linearly with the logarithm of the frequency.

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 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);

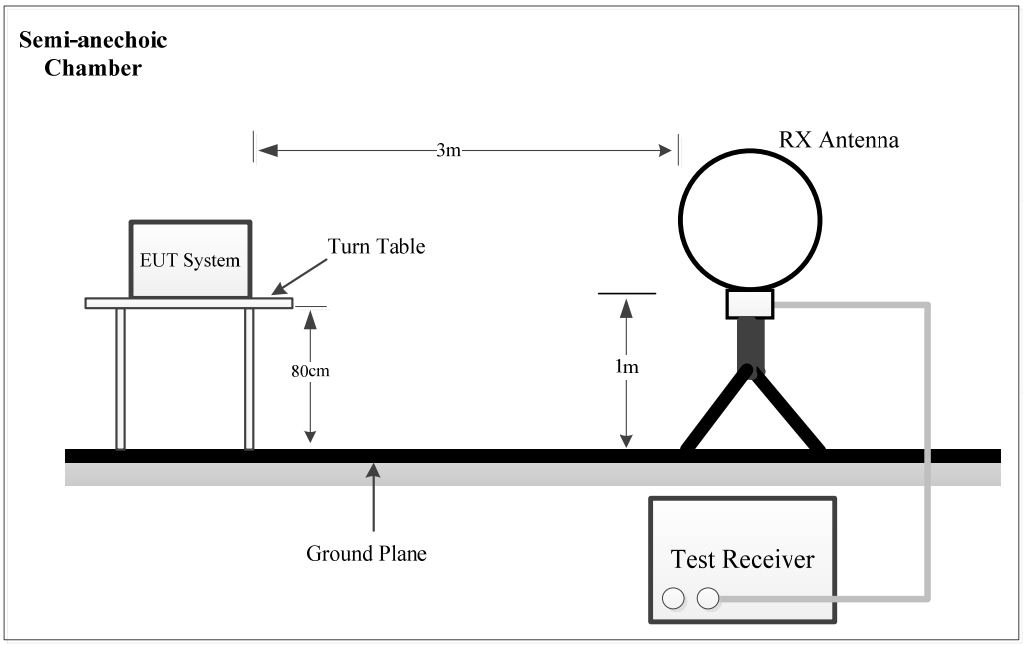
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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 6.6

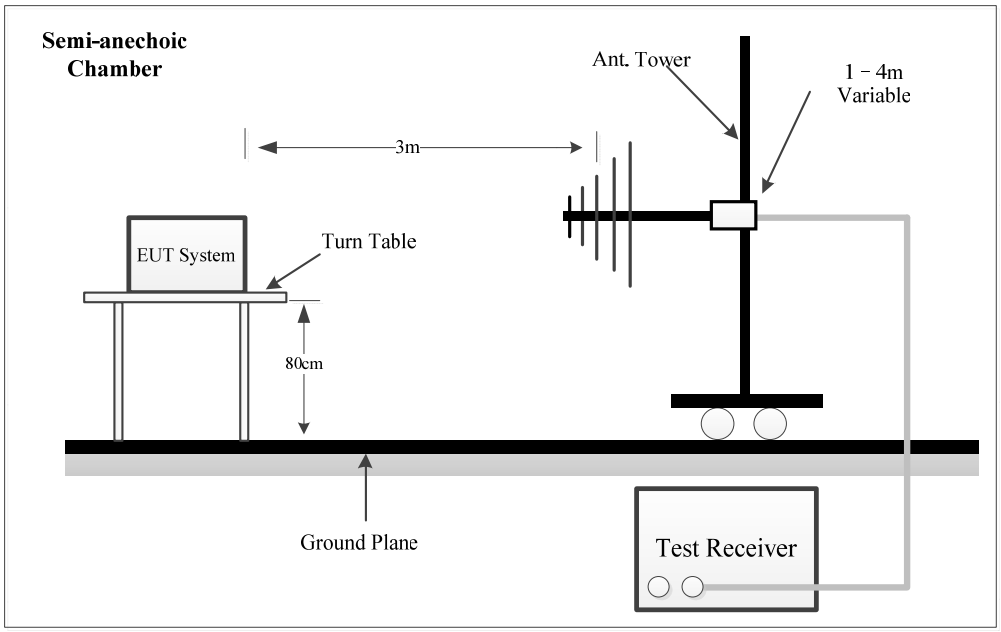
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device, or hybrid system is operating, the RF power that is produced shall be at least 20 dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power – 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 6.3.2, the attenuation required shall be30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

4.2.2 EUT Setup

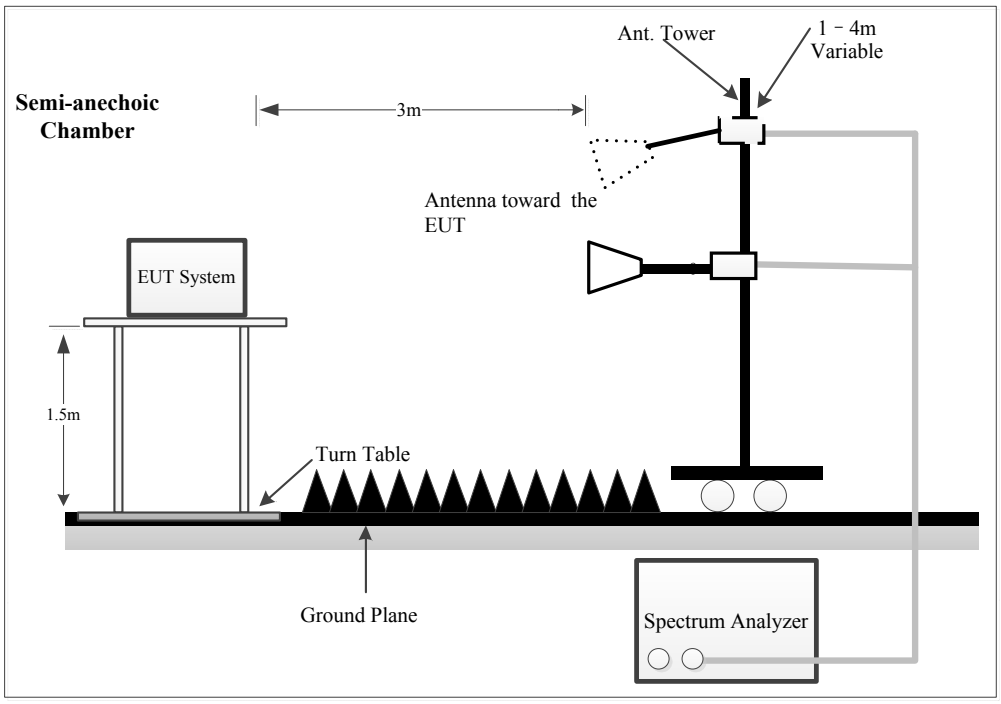
9kHz~30MHz:



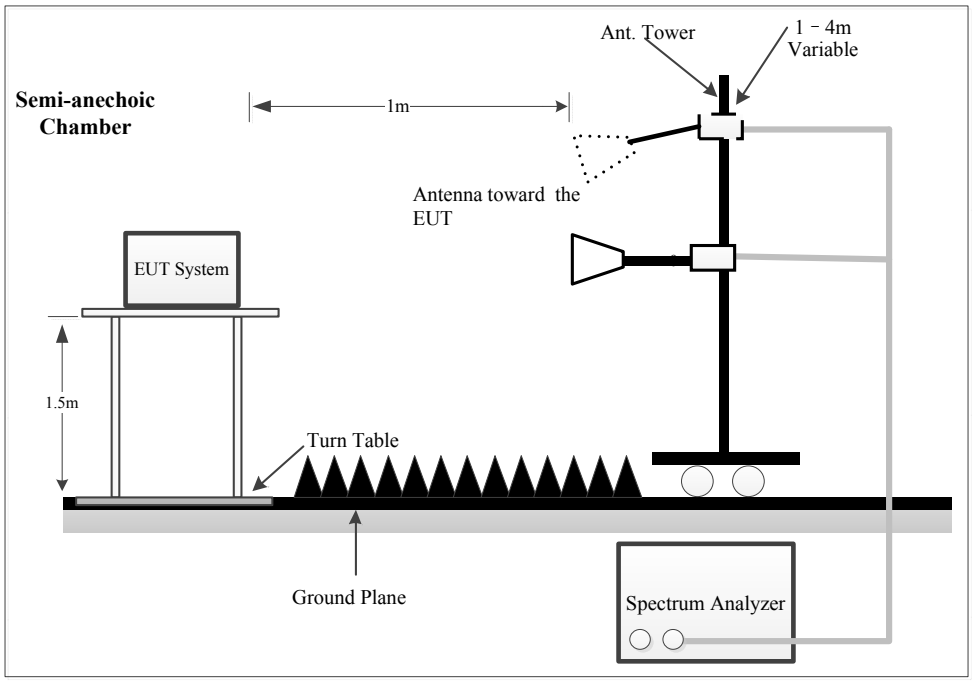
30MHz~1GHz:



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, RSS-247, RSS-Gen limits.

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.

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

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 (specific distance [3m]/test distance [1.0m]) dB= 9.54 dB

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

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

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

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
Factor= Antenna Factor + Cable Loss- Amplifier Gain

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

Margin = Limit – Result

For the spurious emission below 30MHz, the limit was convert from dBμA/m to dBμV/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

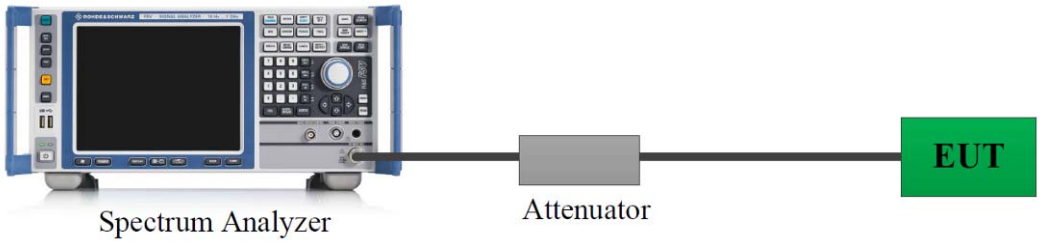
FCC §15.247 (a)(1)

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 6.2.3.1 a

FHS operating in the band 2400-2483.5MHz 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 that the systems operate with an output power no greater than 0.125 W.

4.3.2 EUT Setup



4.3.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.2

a) 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.
b) 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.
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) Steps a) through c) might require iteration to adjust within the specified tolerances.
e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "−xx dB down" requirement; that is, if the requirement calls for measuring the −20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
f) Set detection mode to peak and trace mode to max hold.
g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

h) Determine the "−xx dB down amplitude" using [(reference value) − xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "−xx dB down amplitude" determined in step h). If a marker is below this "−xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "−xx dB down
amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

4.3.4 Test Result

Please refer to section 5.3.

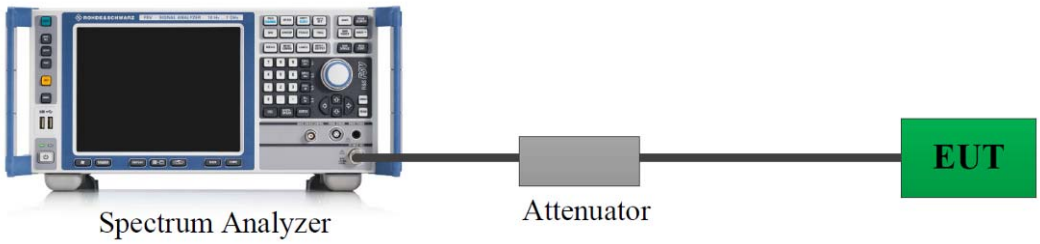
4.4 99% Occupied Bandwidth:

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.

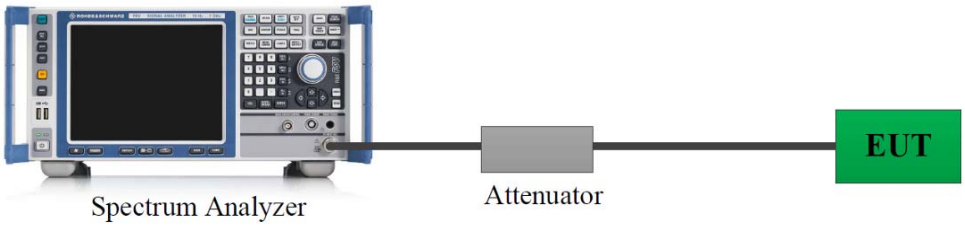
4.5 Channel Separation

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 6.2.3.1 a
FHS operating in the band 2400-2483.5MHz 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 that the systems operate with an output power no greater than 0.125 W.

4.5.2 EUT Setup



4.5.3 Test Procedure

According to ANSI C63.10a-2024 Section 7.8.2

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:
a) Span: Wide enough to capture the peaks of two adjacent channels.
b) 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.
c) Video (or average) bandwidth (VBW) ≥ 1/10th the RBW.
d) Sweep: No faster than coupled (auto) time.
e) Detector function: Peak.
f) Trace: Max hold.
g) 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

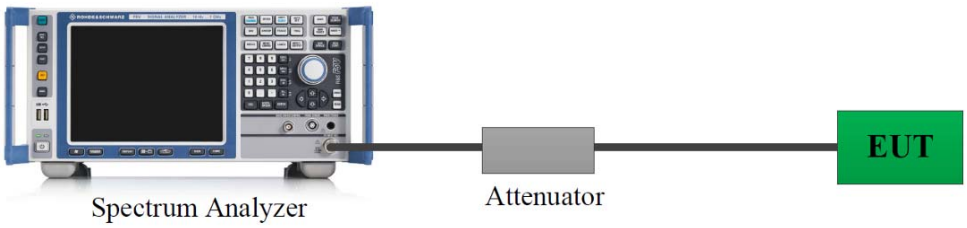
FCC §15.247 (a)(1)(iii)

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 6.2.3.1 b

FHS operating in the band 2400-2483.5 MHz shall use at least 15hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 s within a period of 0.4 s, multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that at least 15 hopping channels are used.

4.6.2 EUT Setup



4.6.3 Test Procedure

According to ANSI C63.10a-2024 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 ≥ 1/10th the 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)

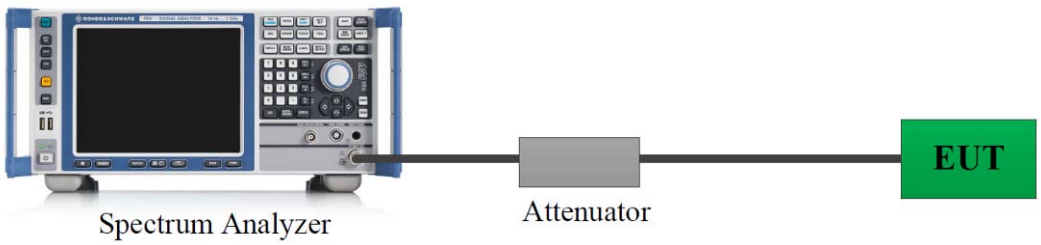
4.7.1 Applicable Standard

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 6.2.3.1 b

FHS operating in the band 2400-2483.5 MHz shall use at least 15hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 s within a period of 0.4 s, multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that at least 15 hopping 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:
a) Span: Zero span, centered on a hopping channel.
b) RBW shall be ⩽ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop.
c) 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/hopping rate) should achieve this.
d) 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.
e) Detector function: Peak.
f) Trace: Clear-write, single sweep.
g) 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 × 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.

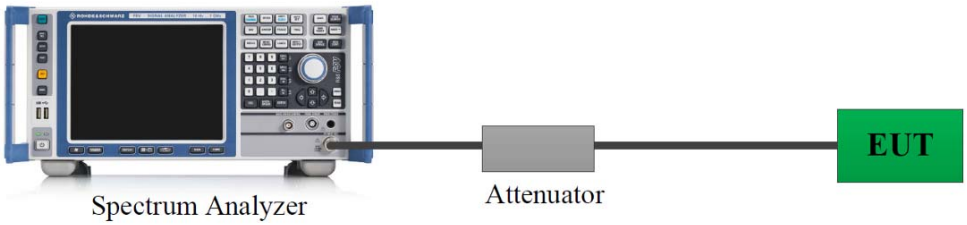
4.8 Maximum Conducted Output Power

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 6.2.3.2 a) b) c)
a. if the hopset uses 75 or more hopping channels, the maximum peak conducted output power shall not exceed 1.0 W.
b. if the hopset uses less than 75 hopping channels the maximum peak conducted output power shall not exceed 0.125 W.
c. the e.i.r.p. shall not exceed 4 W, except as provided in sections 6.5 a) and b).

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:

a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
b) RBW > 20 dB bandwidth of the emission being measured.
c) VBW ≥ RBW.
d) Sweep: No faster than coupled (auto) time.
e) Detector function: Peak.
f) Trace: Max-hold.
g) Allow trace to stabilize.
h) Use the marker-to-peak function to set the marker to the peak of the emission.
i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
j) 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

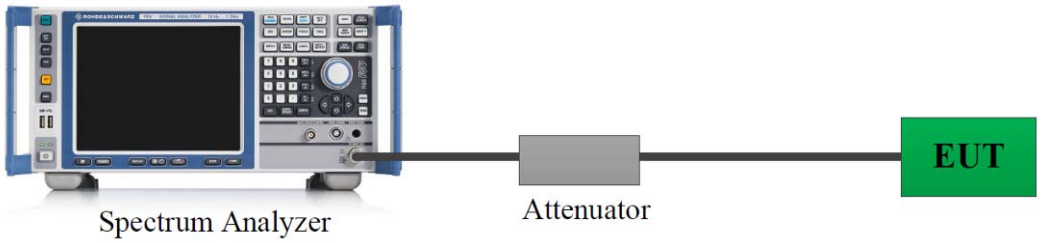
FCC §15.247 (d);

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)).

RSS-247 Clause 6.6

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device, or hybrid system is operating, the RF power that is produced shall be at least 20 dB below that in the 100kHz 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 6.3.2, the attenuation required shall be30 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 ≥ [3 × 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

5.1 AC Line Conducted Emissions

Serial Number:	3EWH-1	Test Date:	2026/2/4
Test Site:	CE	Test Mode:	Transmitting
Tester:	Leesin Xiang	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	21.2	Relative Humidity: (%)	57	ATM Pressure: (kPa)	101.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2025/6/25	2026/6/24
Unknown	Coaxial Cable	RG 142	C-0200-05	2025/5/6	2026/5/5
R&S	EMI Test Receiver	ESCI	100224	2025/6/25	2026/6/24
Audix	Test Software	E3	191218 V9	N/A	N/A

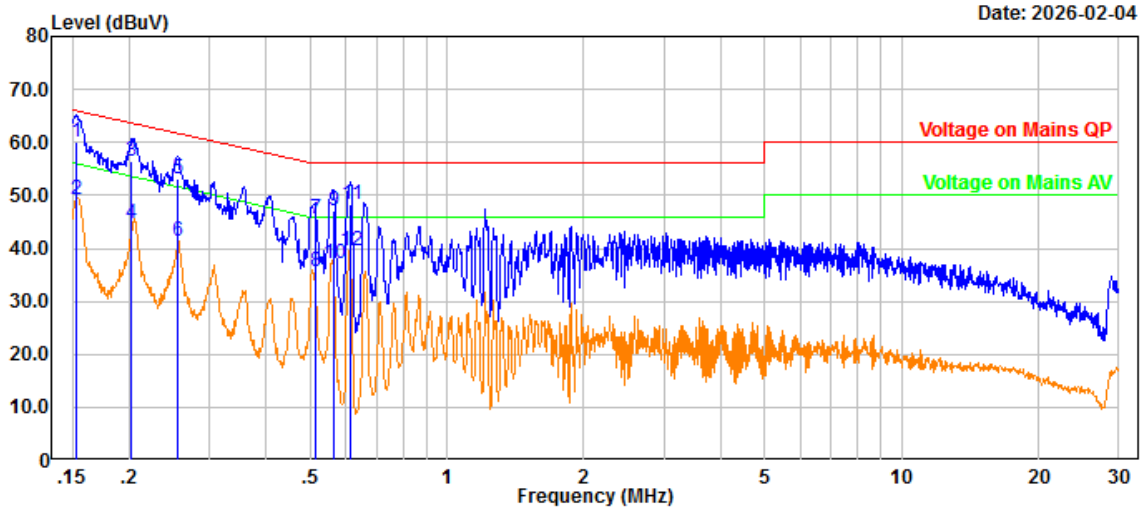
** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:
Please refer to the below plots.

Note: 3EDR High channel was tested.

Project No.: 2502A31388E-RF
Port: Line
Test Mode: Transmitting
IF B/W 9kHz PK/AV

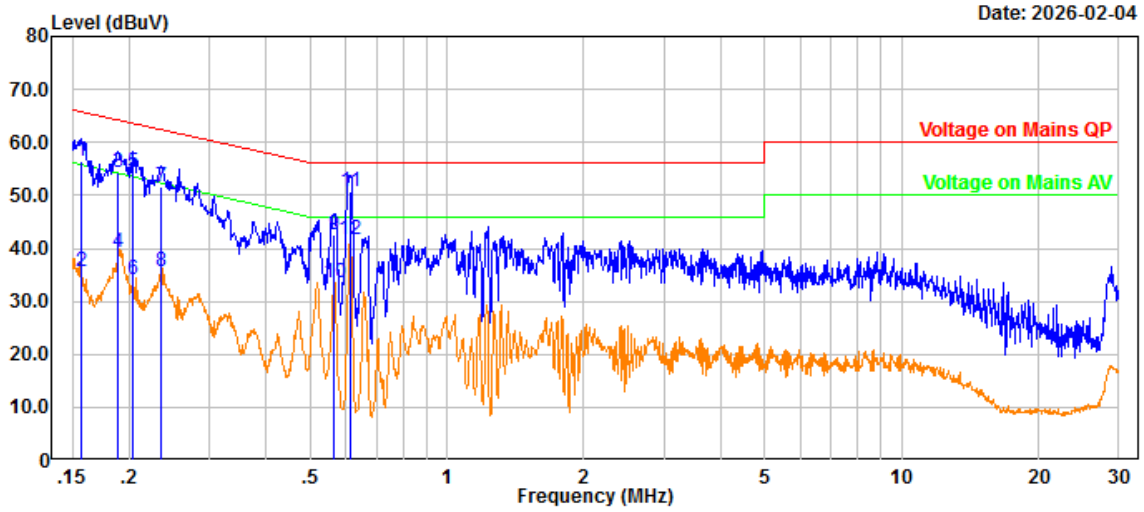
Serial No.: 3EWH-1
Tester: Leesin Xiang
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Measurement
1	0.153	48.85	11.18	60.03	65.85	5.82	QP
2	0.153	37.89	11.18	49.07	55.85	6.78	Average
3	0.202	45.74	10.80	56.54	63.51	6.97	QP
4	0.202	33.79	10.80	44.59	53.51	8.92	Average
5	0.256	42.52	10.76	53.28	61.55	8.27	QP
6	0.256	30.56	10.76	41.32	51.55	10.23	Average
7	0.512	35.11	10.60	45.71	56.00	10.29	QP
8	0.512	25.10	10.60	35.70	46.00	10.30	Average
9	0.564	36.54	10.55	47.09	56.00	8.91	QP
10	0.564	26.57	10.55	37.12	46.00	8.88	Average
11	0.615	37.94	10.50	48.44	56.00	7.56	QP
12	0.615	28.92	10.50	39.42	46.00	6.58	Average

Project No.: 2502A31388E-RF
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 3EWH-1
Tester: Leesin Xiang
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Measurement
1	0.157	45.84	10.73	56.57	65.60	9.03	QP
2	0.157	24.87	10.73	35.60	55.60	20.00	Average
3	0.188	43.38	10.85	54.23	64.11	9.88	QP
4	0.188	28.35	10.85	39.20	54.11	14.91	Average
5	0.204	43.30	10.90	54.20	63.46	9.26	QP
6	0.204	23.32	10.90	34.22	53.46	19.24	Average
7	0.234	40.71	10.85	51.56	62.29	10.73	QP
8	0.234	24.72	10.85	35.57	52.29	16.72	Average
9	0.564	32.16	10.48	42.64	56.00	13.36	QP
10	0.564	23.15	10.48	33.63	46.00	12.37	Average
11	0.611	40.16	10.45	50.61	56.00	5.39	QP
12	0.611	31.14	10.45	41.59	46.00	4.41	Average

5.2 Radiated Spurious Emissions

1) 9kHz - 1GHz

Serial Number:	3EWH-1	Test Date:	2026/2/10
Test Site:	Chamber10m	Test Mode:	Transmitting
Tester:	Mikey Lin	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	21.4	Relative Humidity: (%)	45	ATM Pressure: (kPa)	101.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
GLOBAL	Active Loop Antenna	1313-1A	4060411	2025/6/26	2028/6/25
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	2025/8/25	2026/8/24
R&S	EMI Test Receiver	ESR3	102453	2025/6/25	2026/6/24
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.

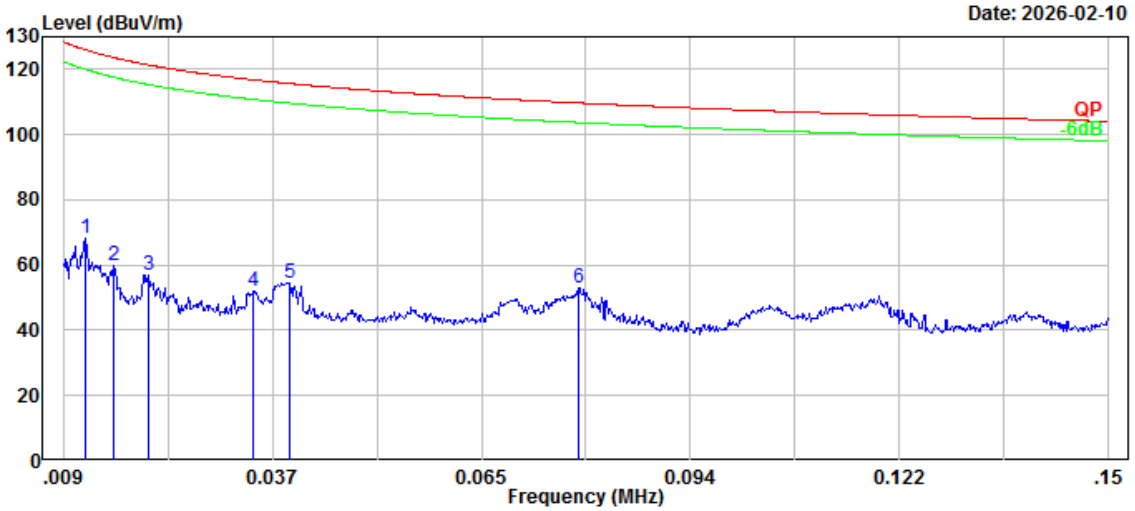
After pre-scan in the X, Y and Z axes of orientation, the worst case(Y axis was the worst) is refer to plots.

Note: 3EDR High channel was tested.

9kHz~30MHz

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

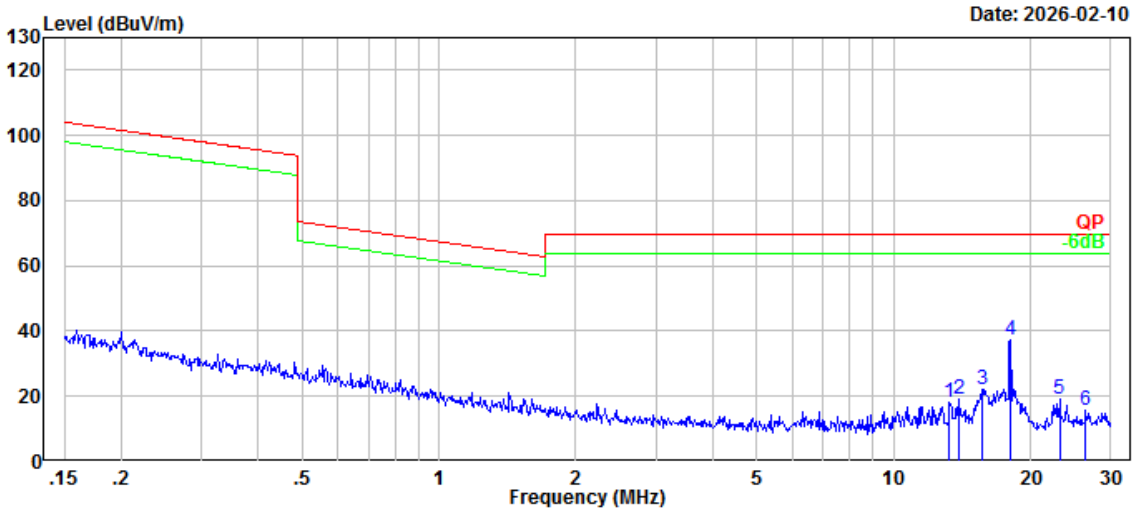
```
Project No.: 2502A31388E-RF                    Serial No.: 3EWH-1
Polarization: Parallel                             Tester: Mikey Lin
   Test Mode: Transmitting
        Note: Worst adapter 1(3EWH-4)
              RBW:200Hz VBW:1kHz
```



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	0.012	66.62	1.74	68.36	125.95	57.59	Peak
2	0.016	59.01	0.82	59.83	123.57	63.74	Peak
3	0.020	57.40	-0.25	57.15	121.40	64.25	Peak
4	0.035	54.72	-2.73	51.99	116.81	64.82	Peak
5	0.039	57.88	-3.23	54.65	115.68	61.03	Peak
6	0.079	60.45	-7.61	52.84	109.71	56.87	Peak

Project No.: 2502A31388E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: Worst adapter 1(3EWH-4)
RBW:9kHz VBW:30kHz

Serial No.: 3EWH-1
Tester: Mikey Lin

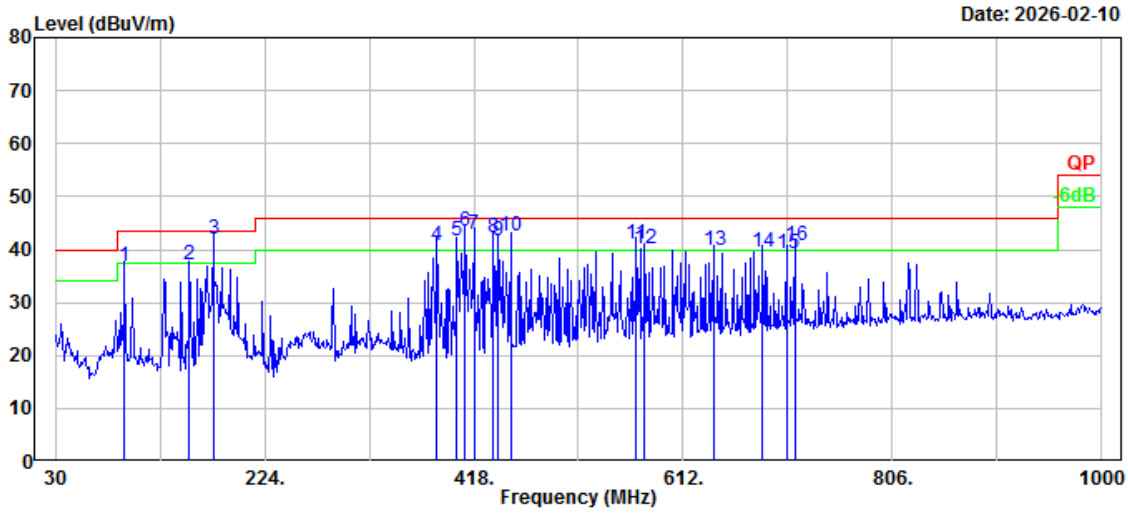


No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	13.267	51.11	-32.96	18.15	69.54	51.39	Peak
2	13.915	51.96	-33.05	18.91	69.54	50.63	Peak
3	15.635	54.89	-33.02	21.87	69.54	47.67	Peak
4	18.039	70.25	-33.15	37.10	69.54	32.44	Peak
5	23.140	52.45	-33.29	19.16	69.54	50.38	Peak
6	26.418	49.11	-33.34	15.77	69.54	53.77	Peak

30MHz-1GHz

Project No.: 2502A31388E-RF
Polarization: horizontal
Test Mode: Transmitting
Note: Worst adapter 1(3EWH-4)
RBW:120kHz VBW:500kHz

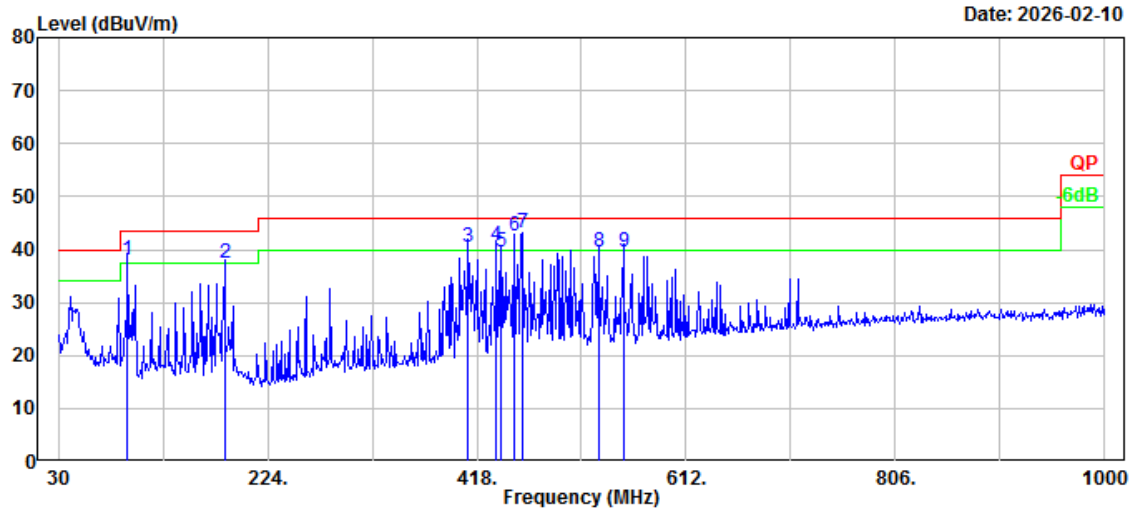
Serial No.: 3EWH-1
Tester: Mikey Lin



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	94.02	52.41	-15.46	36.95	43.50	6.55	QP
2	154.16	48.10	-11.09	37.01	43.50	6.49	QP
3	176.47	54.10	-12.06	42.04	43.50	1.46	QP
4	384.05	48.51	-7.61	40.90	46.00	5.10	QP
5	402.48	48.71	-7.19	41.52	46.00	4.48	QP
6	410.24	50.49	-6.91	43.58	46.00	2.42	QP
7	418.00	49.50	-6.66	42.84	46.00	3.16	QP
8	436.43	48.10	-5.87	42.23	46.00	3.77	QP
9	440.31	47.50	-5.70	41.80	46.00	4.20	QP
10	451.95	47.80	-5.23	42.57	46.00	3.43	QP
11	568.35	44.50	-3.51	40.99	46.00	5.01	QP
12	576.11	43.51	-3.42	40.09	46.00	5.91	QP
13	640.13	42.10	-2.36	39.74	46.00	6.26	QP
14	685.72	41.10	-1.61	39.49	46.00	6.51	QP
15	708.03	40.51	-1.24	39.27	46.00	6.73	QP
16	715.79	41.80	-1.08	40.72	46.00	5.28	QP

Project No.: 2502A31388E-RF
Polarization: vertical
Test Mode: Transmitting
Note: Worst adapter 1(3EWH-4)
RBW:120kHz VBW:500kHz

Serial No.: 3EWH-1
Tester: Mikey Lin



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	94.02	53.41	-15.46	37.95	43.50	5.55	QP
2	184.23	49.80	-12.24	37.56	43.50	5.94	QP
3	410.24	47.49	-6.91	40.58	46.00	5.42	QP
4	436.43	46.50	-5.87	40.63	46.00	5.37	QP
5	440.31	45.10	-5.70	39.40	46.00	6.60	QP
6	451.95	47.90	-5.23	42.67	46.00	3.33	QP
7	459.71	48.09	-5.02	43.07	46.00	2.93	QP
8	530.52	43.51	-4.03	39.48	46.00	6.52	QP
9	553.80	43.10	-3.68	39.42	46.00	6.58	QP

2) 1-25GHz:

Serial Number:	3EWH-1	Test Date:	2026/1/7
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Leo Xiao	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	18.1	Relative Humidity: (%)	32	ATM Pressure: (kPa)	102.1

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	2025/11/17	2026/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2025/11/14	2026/11/13
AH	Preamplifier	PAM-0118P	469	2025/4/11	2026/4/10
AH	Preamplifier	PAM-1840VH	191	2025/9/4	2026/9/3
R&S	Spectrum Analyzer	FSV40	101944	2025/8/8	2026/8/7
Audix	Test Software	E3	191218 V9	N/A	N/A
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FCU	DC79902 & DC79905	2025/8/25	2026/8/24

** 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).*

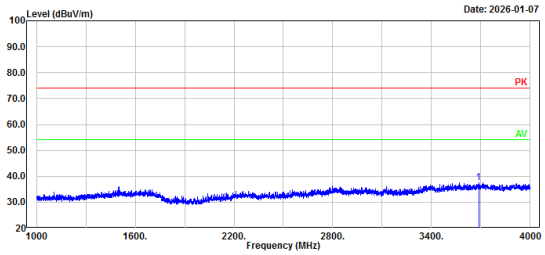
Test Data:

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

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

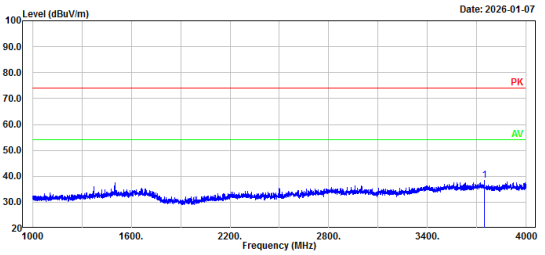
3EDR Mode(DH5) low channel Horizontal	3EDR Mode(DH5) low channel Vertical

Project No.: 2502A31388E-RF Serial No.: 3EWH-1
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 3EDR Mode(DH5) low channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz



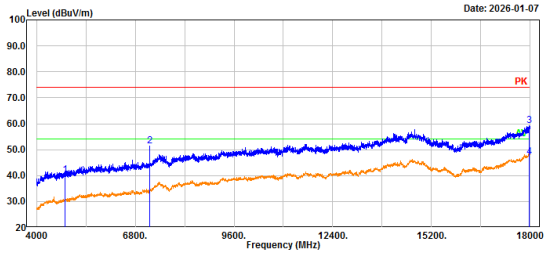
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	3686.20	48.66	-11.14	37.52	74.00	36.48	Peak

Project No.: 2502A31388E-RF Serial No.: 3EWH-1
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 3EDR Mode(DH5) low channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz



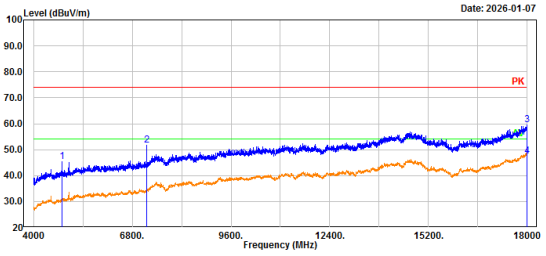
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	3745.60	49.77	-11.21	38.56	74.00	35.44	Peak

Project No.: 2502A31388E-RF Serial No.: 3EWH-1
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 3EDR Mode(DH5) low channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	4804.00	47.72	-7.53	40.19	74.00	33.81	Peak
2	7206.00	54.83	-3.42	51.41	74.00	22.59	Peak
3	17960.80	48.18	10.95	59.13	74.00	14.87	Peak
4	17960.80	36.31	10.95	47.26	54.00	6.74	Average

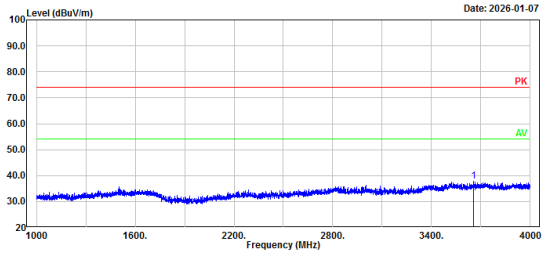
Project No.: 2502A31388E-RF Serial No.: 3EWH-1
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 3EDR Mode(DH5) low channel 2402MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	4804.00	52.82	-7.53	45.29	74.00	28.71	Peak
2	7206.00	55.24	-3.42	51.82	74.00	22.18	Peak
3	17991.60	48.44	11.13	59.57	74.00	14.43	Peak
4	17991.60	36.37	11.13	47.50	54.00	6.50	Average

3EDR Mode(DH5) middle channel Horizontal

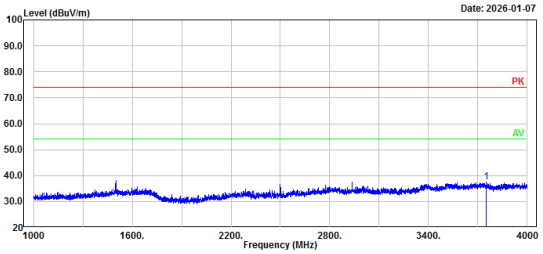
Project No.: 2502A31388E-RF Serial No.: 3EWH-1
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 3EDR Mode(DH5) middle channel 2441MHz
Peak:RBW:1MHz,VBW:3MHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	3656.80	48.95	-11.23	37.72	74.00	36.28	Peak

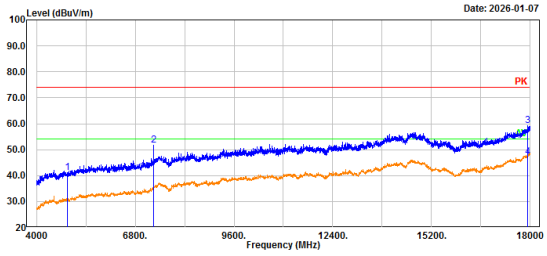
3EDR Mode(DH5) middle channel Vertical

Project No.: 2502A31388E-RF Serial No.: 3EWH-1
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 3EDR Mode(DH5) middle channel 2441MHz
Peak:RBW:1MHz,VBW:3MHz



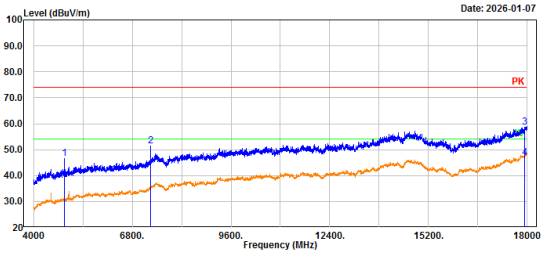
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	3749.20	48.69	-11.22	37.47	74.00	36.53	Peak

Project No.: 2502A31388E-RF Serial No.: 3EWH-1
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 3EDR Mode(DH5) middle channel 2441MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	4882.00	48.72	-7.54	41.18	74.00	32.82	Peak
2	7323.00	54.58	-2.88	51.70	74.00	22.30	Peak
3	17924.40	48.63	10.70	59.33	74.00	14.67	Peak
4	17924.40	36.46	10.70	47.16	54.00	6.84	Average

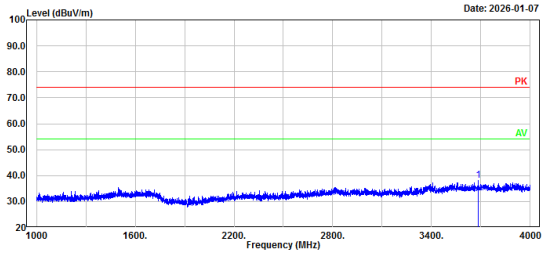
Project No.: 2502A31388E-RF Serial No.: 3EWH-1
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 3EDR Mode(DH5) middle channel 2441MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	4882.00	54.00	-7.54	46.46	74.00	27.54	Peak
2	7323.00	54.42	-2.88	51.54	74.00	22.46	Peak
3	17924.40	48.08	10.70	58.78	74.00	15.22	Peak
4	17924.40	36.30	10.70	47.00	54.00	7.00	Average

3EDR Mode(DH5) high channel Horizontal

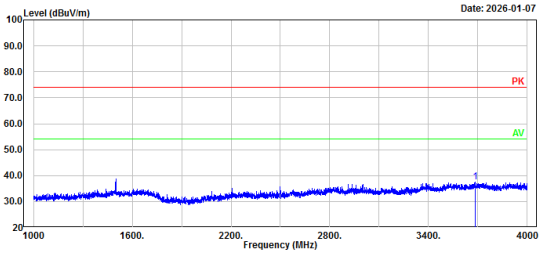
Project No.: 2502A31388E-RF Serial No.: 3EWH-1
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 3EDR Mode(DH5) high channel 2480MHz
Peak:RBW:1MHz,VBW:3MHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	3683.80	49.24	-11.14	38.10	74.00	35.90	Peak

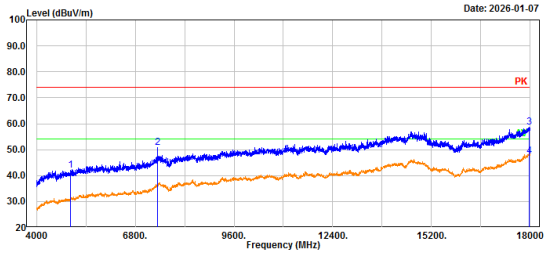
3EDR Mode(DH5) high channel Vertical

Project No.: 2502A31388E-RF Serial No.: 3EWH-1
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 3EDR Mode(DH5) high channel 2480MHz
Peak:RBW:1MHz,VBW:3MHz



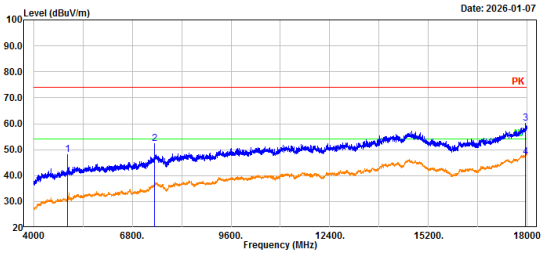
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	3685.00	48.51	-11.14	37.37	74.00	36.63	Peak

Project No.: 2502A31388E-RF Serial No.: 3EWH-1
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 3EDR Mode(DH5) high channel 2480MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	4960.00	49.38	-7.40	41.98	74.00	32.02	Peak
2	7440.00	53.29	-2.39	50.90	74.00	23.10	Peak
3	17966.40	47.58	10.98	58.56	74.00	15.44	Peak
4	17966.40	36.50	10.98	47.48	54.00	6.52	Average

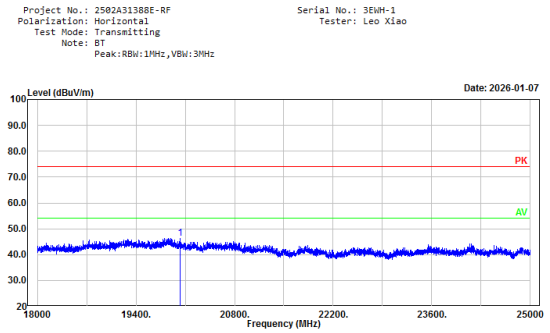
Project No.: 2502A31388E-RF Serial No.: 3EWH-1
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 3EDR Mode(DH5) high channel 2480MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



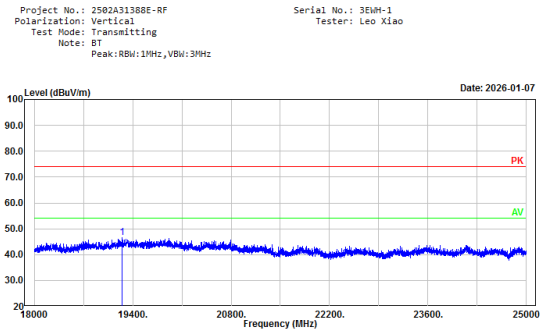
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	4960.00	55.38	-7.40	47.98	74.00	26.02	Peak
2	7440.00	54.78	-2.39	52.39	74.00	21.61	Peak
3	17955.20	49.27	10.91	60.18	74.00	13.82	Peak
4	17955.20	36.32	10.91	47.23	54.00	6.77	Average

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

3EDR_DH5 High channel, Horizontal	3EDR_DH5 High channel, Vertical



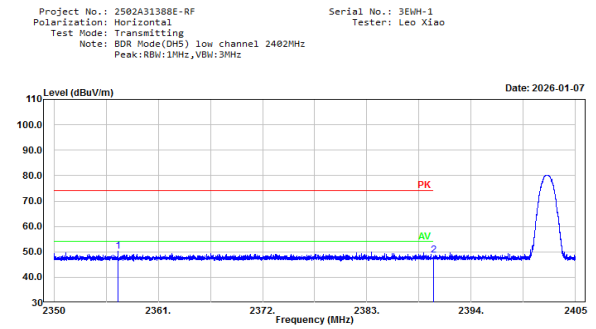
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	20028.60	46.04	0.26	46.30	74.00	27.70	Peak



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	19254.40	46.35	0.11	46.46	74.00	27.54	Peak

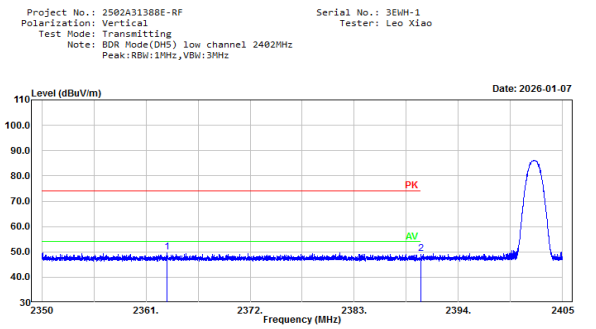
Bandedge:

BDR Mode(DH5) low channel Bandedge Horizontal



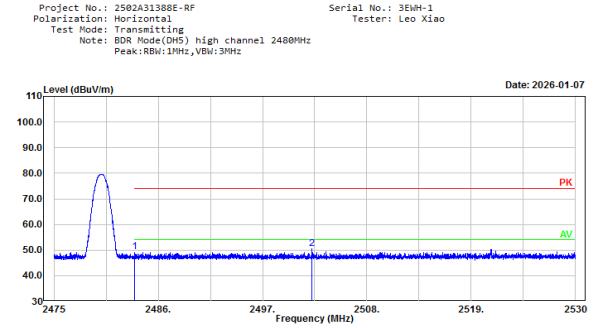
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	2356.79	50.71	-0.51	50.20	74.00	23.80	Peak
2	2390.00	49.30	-0.47	48.83	74.00	25.17	Peak

BDR Mode(DH5) low channel Bandedge Vertical



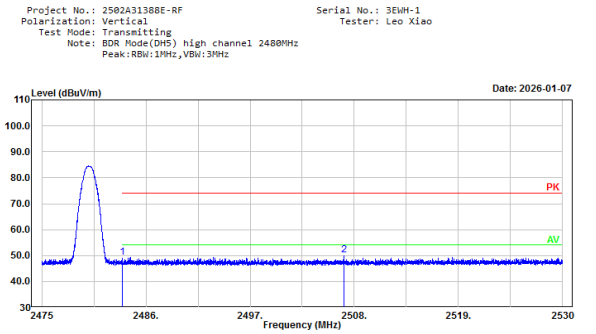
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	2363.26	50.41	-0.49	49.92	74.00	24.08	Peak
2	2390.00	49.91	-0.47	49.44	74.00	24.56	Peak

BDR Mode(DH5) High channel Bandedge Horizontal



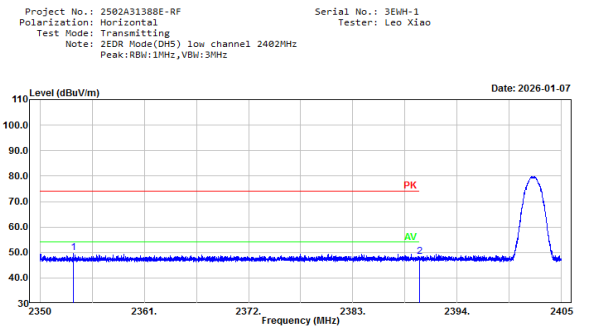
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	2483.50	49.59	-0.30	49.29	74.00	24.71	Peak
2	2502.23	50.91	-0.26	50.65	74.00	23.35	Peak

BDR Mode(DH5) High channel Bandedge Vertical



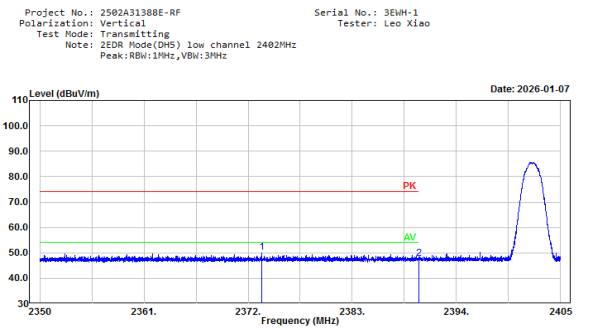
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	2483.50	49.69	-0.30	49.39	74.00	24.61	Peak
2	2506.89	50.55	-0.24	50.31	74.00	23.69	Peak

2EDR Mode(DH5) low channel Bandedge Horizontal



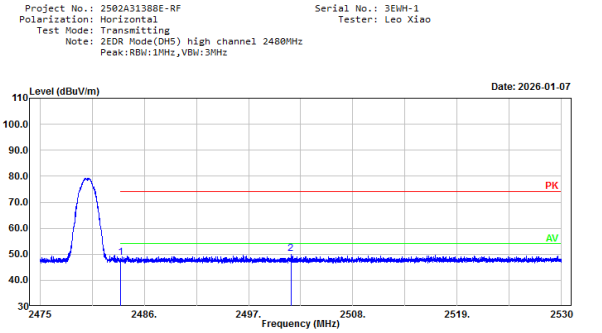
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	2353.50	50.43	-0.51	49.92	74.00	24.08	Peak
2	2390.00	49.03	-0.47	48.56	74.00	25.44	Peak

2EDR Mode(DH5) low channel Bandedge Vertical



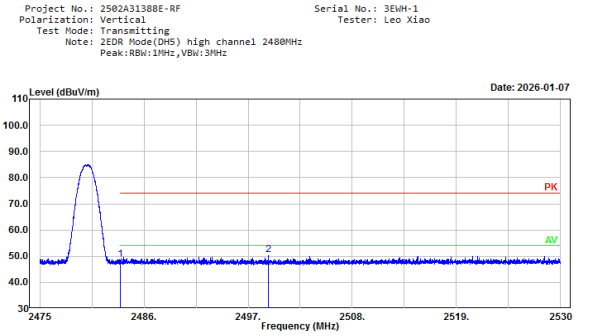
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	2373.43	50.60	-0.48	50.12	74.00	23.88	Peak
2	2390.00	48.42	-0.47	47.95	74.00	26.05	Peak

2EDR Mode(DH5) High channel Bandedge Horizontal



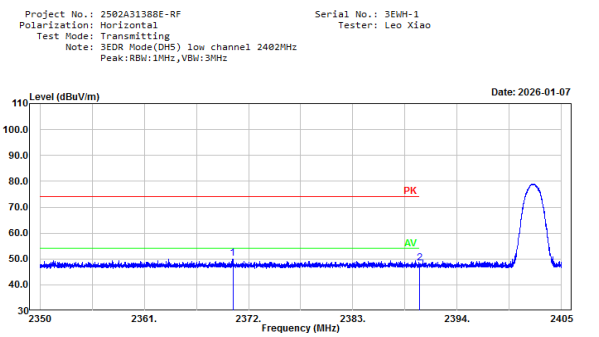
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	2483.50	49.12	-0.30	48.82	74.00	25.18	Peak
2	2501.46	50.47	-0.26	50.21	74.00	23.79	Peak

2EDR Mode(DH5) High channel Bandedge Vertical



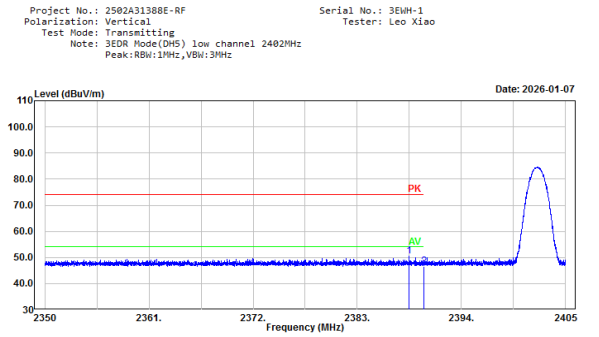
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	2483.50	49.01	-0.30	48.71	74.00	25.29	Peak
2	2499.10	50.77	-0.28	50.49	74.00	23.51	Peak

3EDR Mode(DH5) low channel Bandedge Horizontal



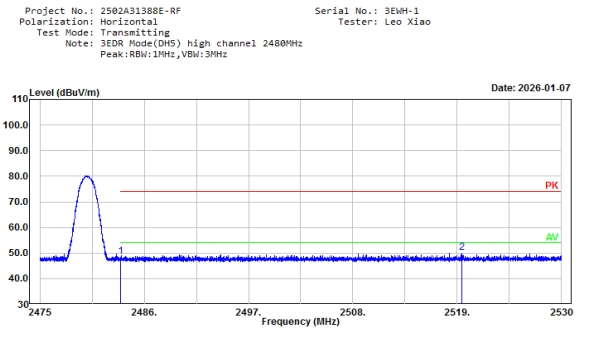
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	2370.34	50.72	-0.48	50.24	74.00	23.76	Peak
2	2390.00	48.74	-0.47	48.27	74.00	25.73	Peak

3EDR Mode(DH5) low channel Bandedge Vertical



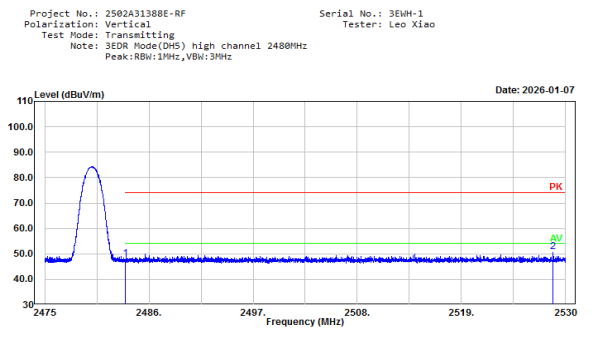
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	2388.50	50.91	-0.47	50.44	74.00	23.56	Peak
2	2390.00	47.08	-0.47	46.61	74.00	27.39	Peak

3EDR Mode(DH5) High channel Bandedge Horizontal



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	2483.50	48.93	-0.30	48.63	74.00	25.37	Peak
2	2519.48	50.47	-0.17	50.30	74.00	23.70	Peak

3EDR Mode(DH5) High channel Bandedge Vertical



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	2483.50	48.38	-0.30	48.08	74.00	25.92	Peak
2	2528.68	50.91	-0.13	50.78	74.00	23.22	Peak

5.3 20 dB Emission Bandwidth

Test Information:

Serial No.:	3EWH-2	Test Date:	2026/03/07~2026/03/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jeff Wei	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	23.3-25.8	Relative Humidity: (%)	37-50	ATM Pressure: (kPa)	101.1-101.9

Test Equipment List and Details:

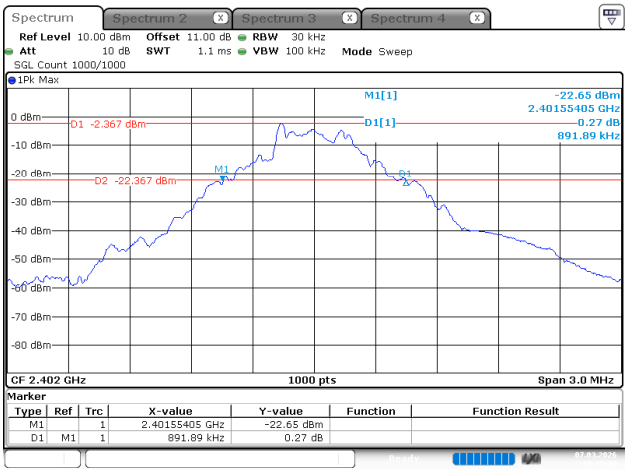
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2025/06/06	2026/06/05
R&S	Spectrum Analyzer	FSV40	101947	2025/07/28	2026/07/27

** 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:

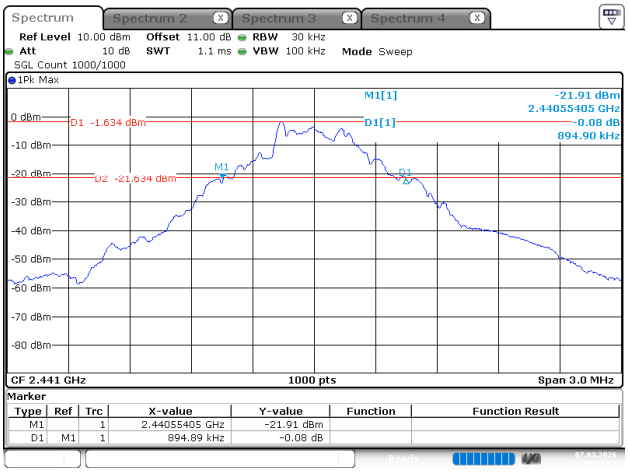
Mode	Channel	Result (MHz)
BDR_DH1	Low	0.892
	Middle	0.895
	High	0.895
2EDR_DH1	Low	1.293
	Middle	1.289
	High	1.289
3EDR_DH1	Low	1.265
	Middle	1.273
	High	1.269

BDR_DH1_Low



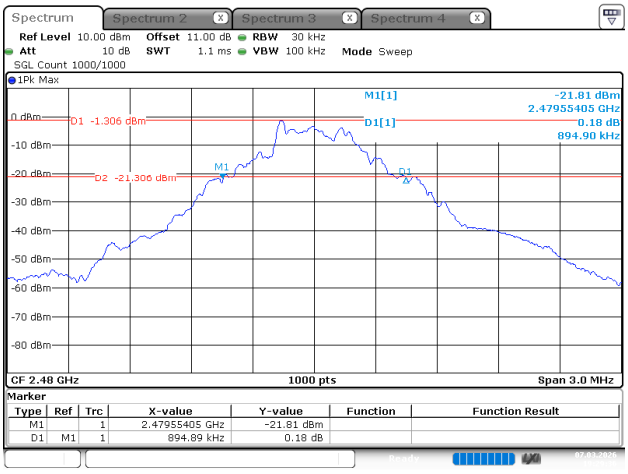
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 7.MAR.2026 19:28:30

BDR_DH1_Middle



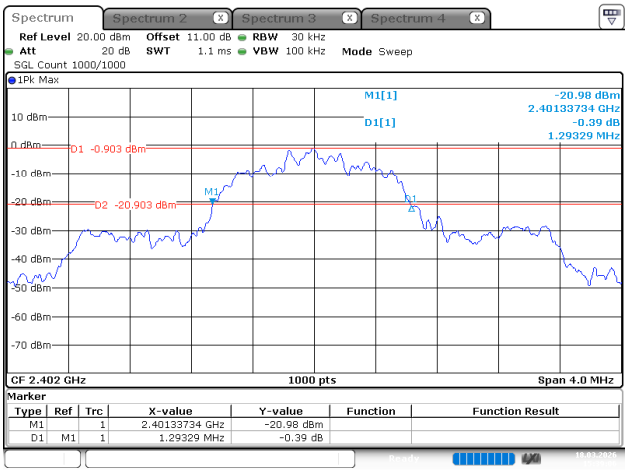
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 7.MAR.2026 19:29:03

BDR_DH1_High



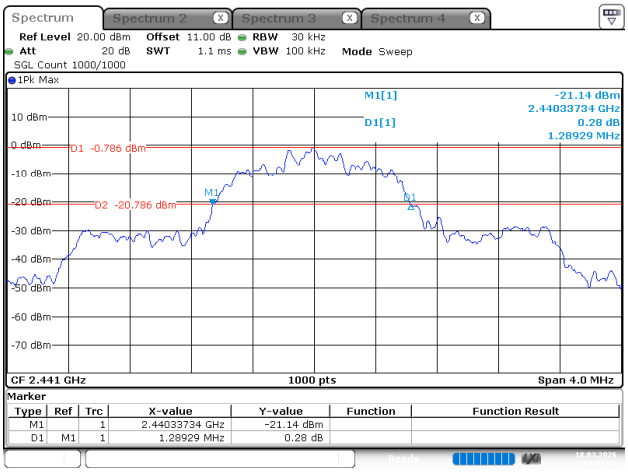
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 7.MAR.2026 19:29:36

2EDR_DH1_Low



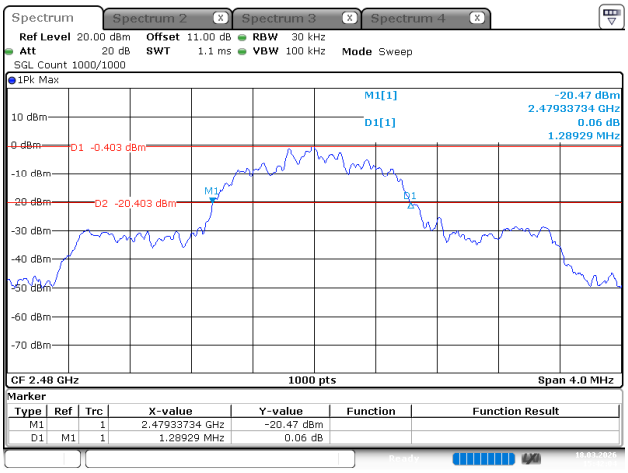
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 18.MAR.2026 15:39:07

2EDR_DH1_Middle



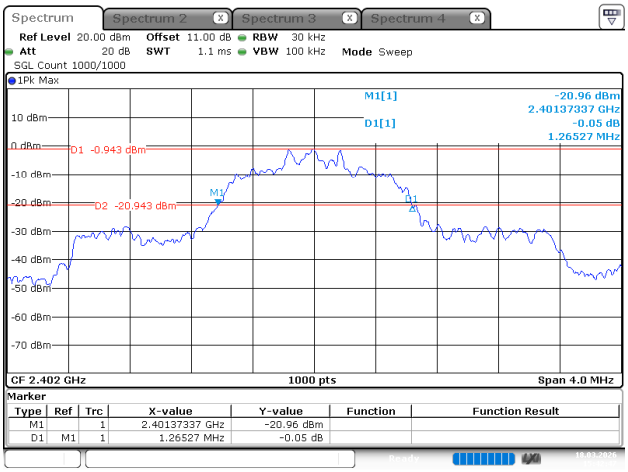
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 18.MAR.2026 15:41:27

2EDR_DH1_High



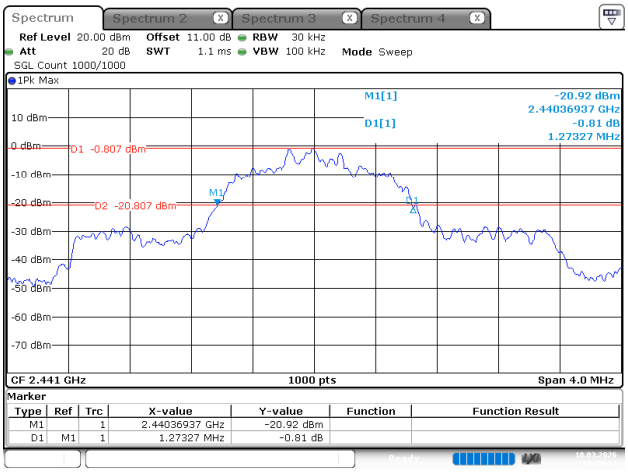
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 18.MAR.2026 15:42:04

3EDR_DH1_Low



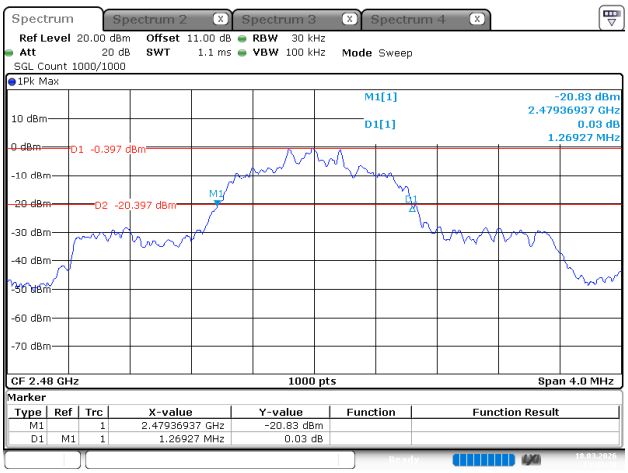
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 18.MAR.2026 15:42:47

3EDR_DH1_Middle



ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 18.MAR.2026 15:43:15

3EDR_DH1_High



ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 18.MAR.2026 15:43:39

5.4 99% Occupied Bandwidth

Test Information:

Serial No.:	3EWH-2	Test Date:	2026/03/07~2026/03/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jeff Wei	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	23.3-25.8	Relative Humidity: (%)	37-50	ATM Pressure: (kPa)	101.1-101.9

Test Equipment List and Details:

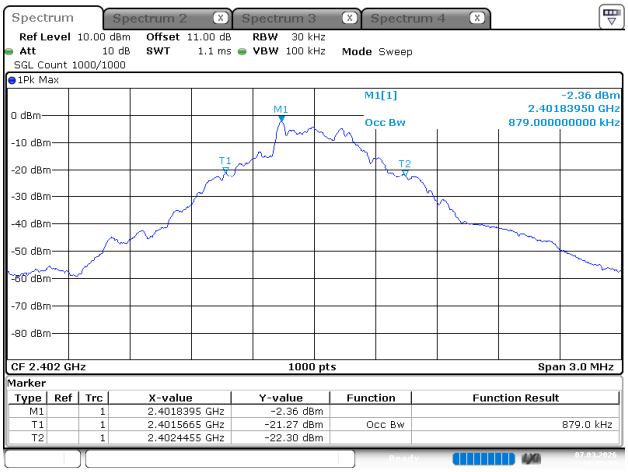
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2025/06/06	2026/06/05
R&S	Spectrum Analyzer	FSV40	101947	2025/07/28	2026/07/27

** 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:

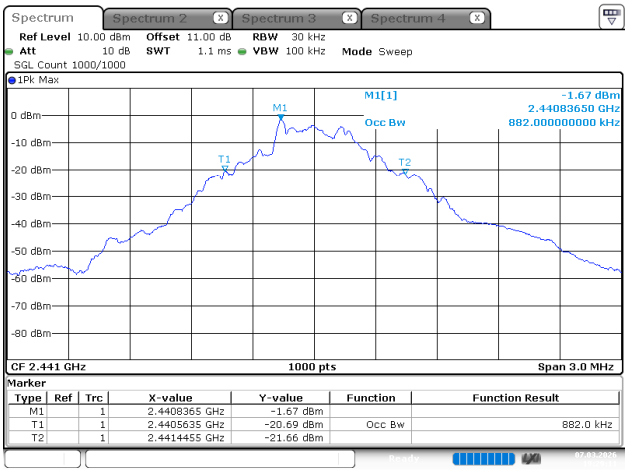
Mode	Channel	99% OBW (MHz)
BDR_DH1	Low	0.879
	Middle	0.882
	High	0.885
2EDR_DH1	Low	1.248
	Middle	1.240
	High	1.224
3EDR_DH1	Low	1.218
	Middle	1.209
	High	1.203

BDR_DH1_Low



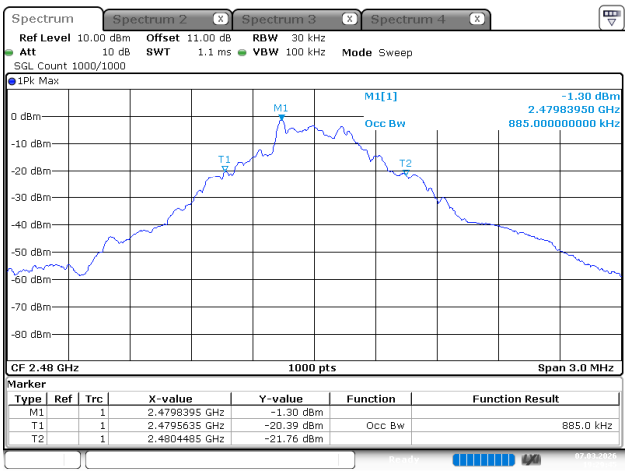
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 7.MAR.2026 19:28:39

BDR_DH1_Middle



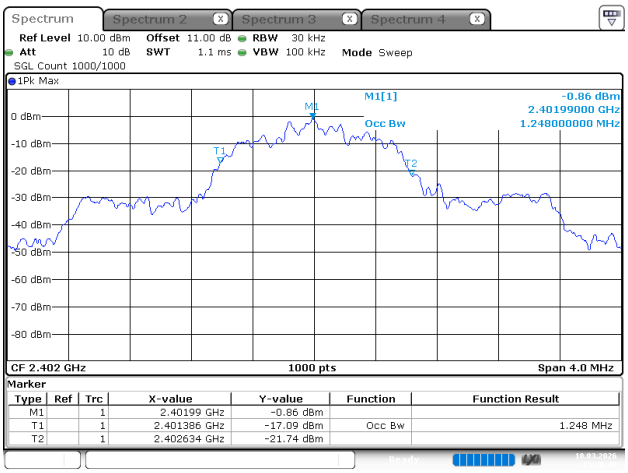
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 7.MAR.2026 19:29:12

BDR_DH1_High



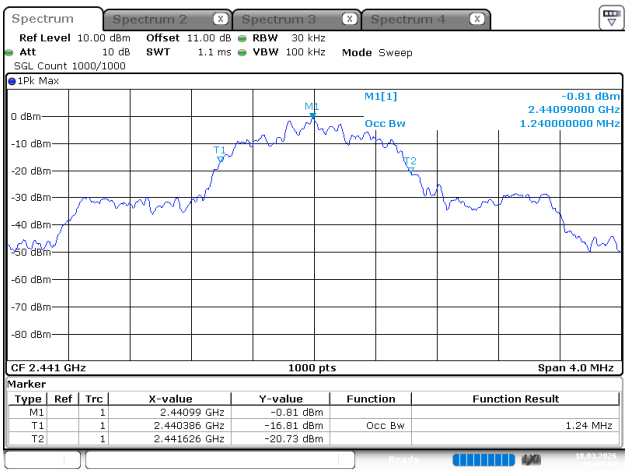
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 7.MAR.2026 19:29:46

2EDR_DH1_Low



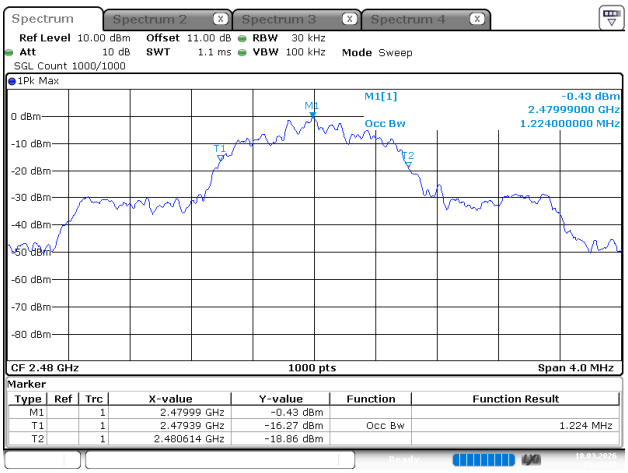
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 18.MAR.2026 15:46:41

2EDR_DH1_Middle



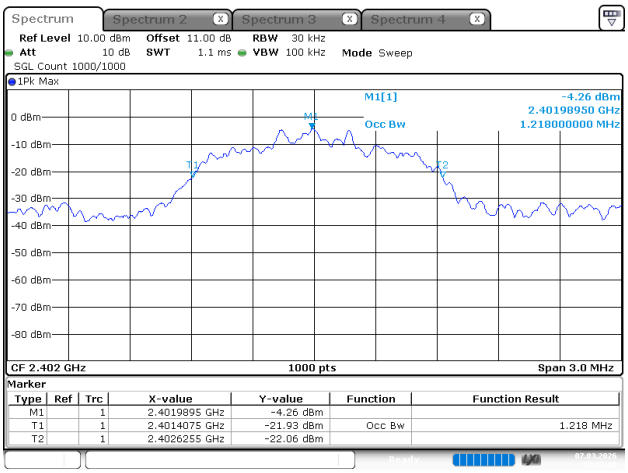
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 18.MAR.2026 15:47:02

2EDR_DH1_High



ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 18.MAR.2026 15:47:31

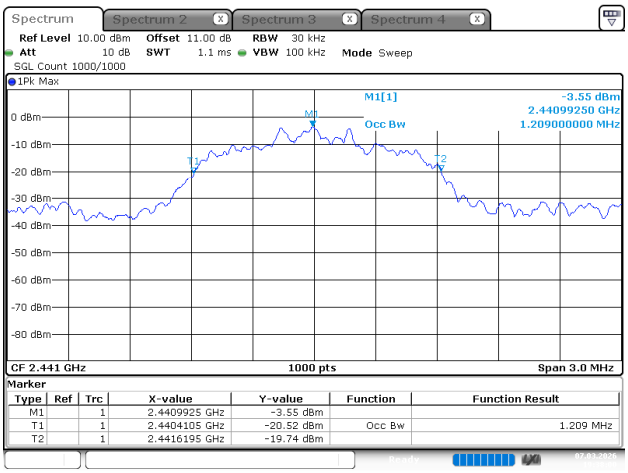
3EDR_DH1_Low



ProjectNo.:2502A31388E-RF Tester:Jeff Wei

Date: 7.MAR.2026 19:37:06

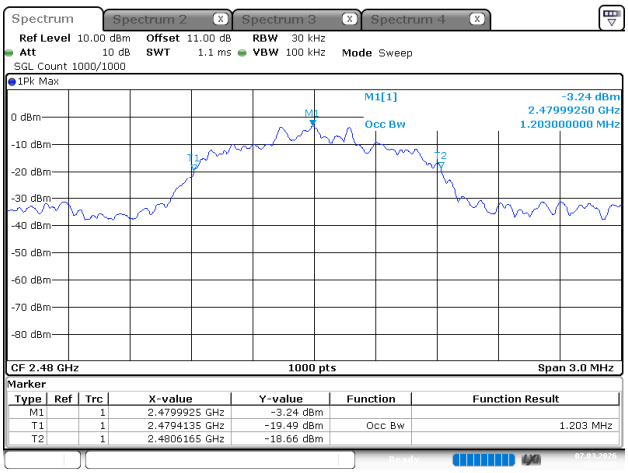
3EDR_DH1_Middle



ProjectNo.:2502A31388E-RF Tester:Jeff Wei

Date: 7.MAR.2026 19:38:01

3EDR_DH1_High



ProjectNo.:2502A31388E-RF Tester:Jeff Wei

Date: 7.MAR.2026 19:38:43

5.5 Channel Separation

Test Information:

Serial No.:	3EWH-2	Test Date:	2026/01/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jeff Wei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.3	Relative Humidity: (%)	37	ATM Pressure: (kPa)	101.9

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	2025/06/06	2026/06/05
R&S	Spectrum Analyzer	FSV40	101947	2025/07/28	2026/07/27

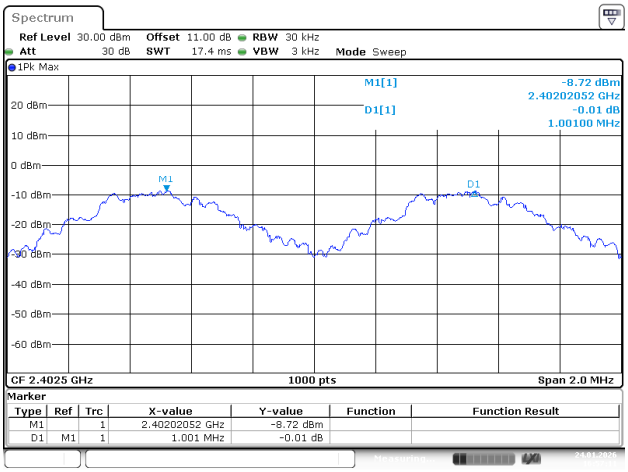
** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Mode	Channel	Result (MHz)	Limit (MHz)	Verdict
BDR_DH1	Low	1.001	0.862	Pass
	Middle	0.999	0.862	Pass
	High	0.997	0.862	Pass

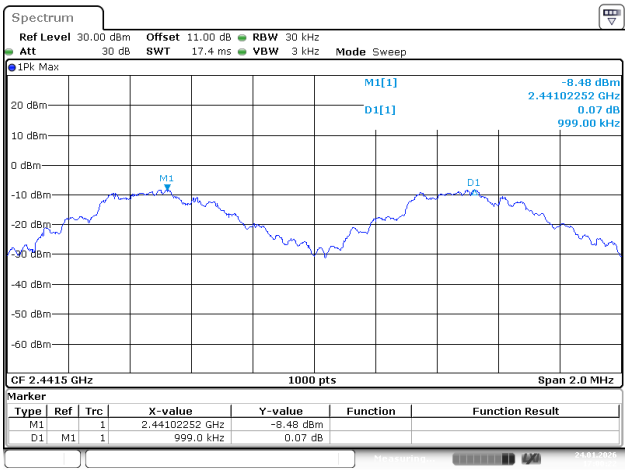
Note: Only the BDR (GFSK) mode result is reported since EDR (π/4-DQPSK) and EDR (8DPSK) modes have the exact same channel plan, and the limit is the maximum 20dB bandwidth *2/3.

BDR_DH1_Low



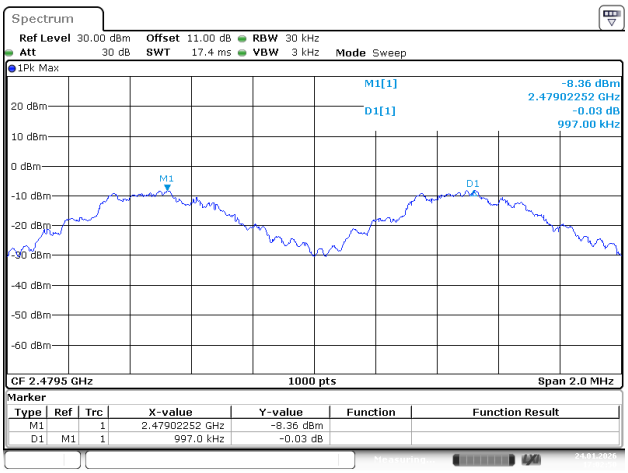
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:57:11

BDR_DH1_Middle



ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 17:00:22

BDR_DH1_High



ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 17:02:50

5.6 Number of Hopping Frequency

Test Information:

Serial No.:	3EWH-2	Test Date:	2026/01/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jeff Wei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.3	Relative Humidity: (%)	37	ATM Pressure: (kPa)	101.9

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	2025/06/06	2026/06/05
R&S	Spectrum Analyzer	FSV40	101947	2025/07/28	2026/07/27

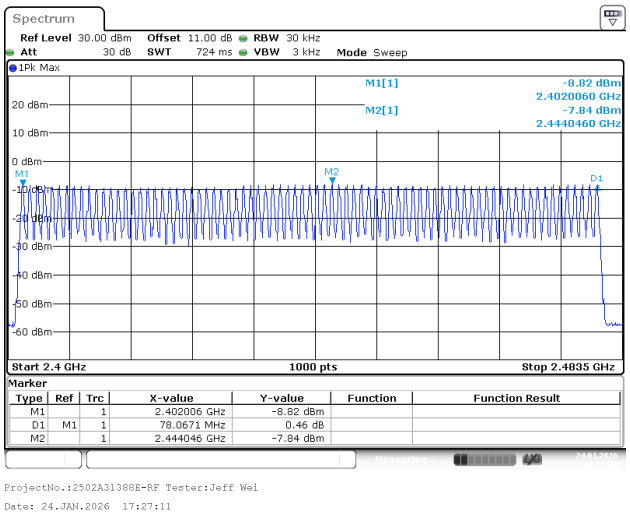
** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Mode	Channel	Result	Limit	Verdict
BDR_DH1	Hopping	79	15	Pass

Note: Only the BDR (GFSK) mode result is reported since EDR (π/4-DQPSK) and EDR (8DPSK) modes have the exact same channel plan.

BDR_DH1_Hopping



5.7 Time of Occupancy (dwell time)

Test Information:

Serial No.:	3EWH-2	Test Date:	2026/01/24~2026/03/07
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jeff Wei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.3-24.7	Relative Humidity: (%)	37-43	ATM Pressure: (kPa)	101.1-101.9

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	2025/06/06	2026/06/05
R&S	Spectrum Analyzer	FSV40	101947	2025/07/28	2026/07/27

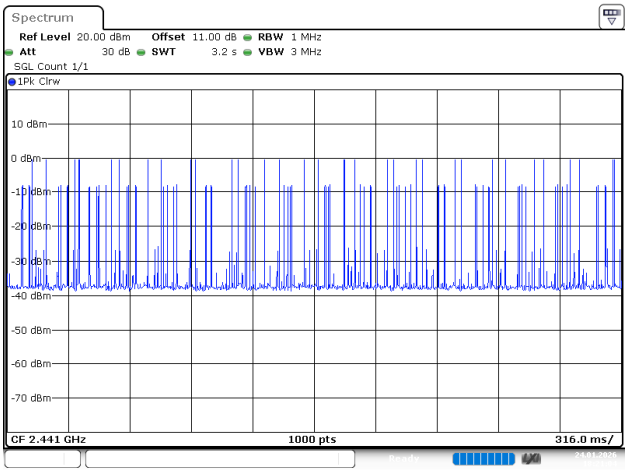
** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Mode	Channel	Burst Width (ms)	Total Hops (Num)	Result (s)	Limit (s)	Verdict
BDR_DH1	Hopping	0.411	320	0.132	≤ 0.4	Pass
BDR_DH3	Hopping	1.676	170	0.285	≤ 0.4	Pass
BDR_DH5	Hopping	2.923	120	0.351	≤ 0.4	Pass
2EDR_DH1	Hopping	0.402	320	0.129	≤ 0.4	Pass
2EDR_DH3	Hopping	1.664	170	0.283	≤ 0.4	Pass
2EDR_DH5	Hopping	2.918	110	0.321	≤ 0.4	Pass
3EDR_DH1	Hopping	0.401	310	0.124	≤ 0.4	Pass
3EDR_DH3	Hopping	1.661	130	0.216	≤ 0.4	Pass
3EDR_DH5	Hopping	2.913	120	0.350	≤ 0.4	Pass

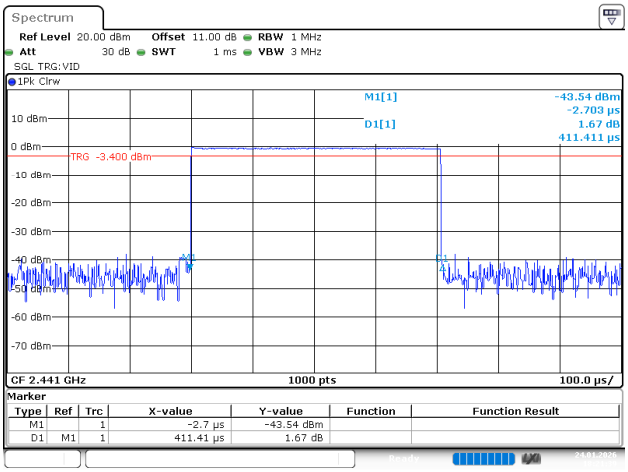
Note 1: A period time = 0.4*79 = 31.6(S), Result = Burst Width * Total hops
Note 2: Total hops = Hopping Number in 3.16s*10
Note 3: Hopping Number in 3.16s = Total of highest signals in 3.16s(Second high signals were other channel)

BDR_DH1_Hopping



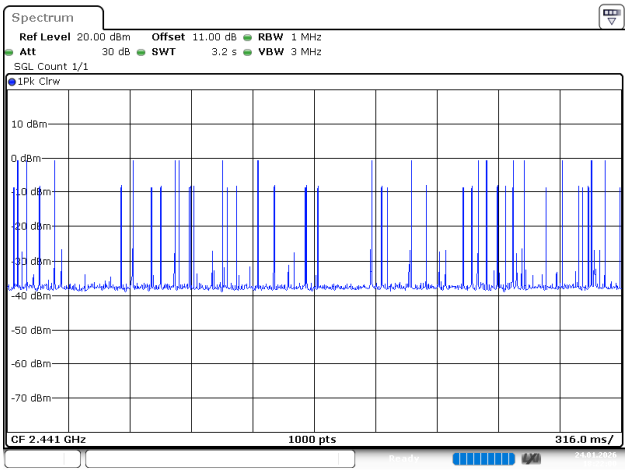
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:21:04

BDR_DH1_Hopping



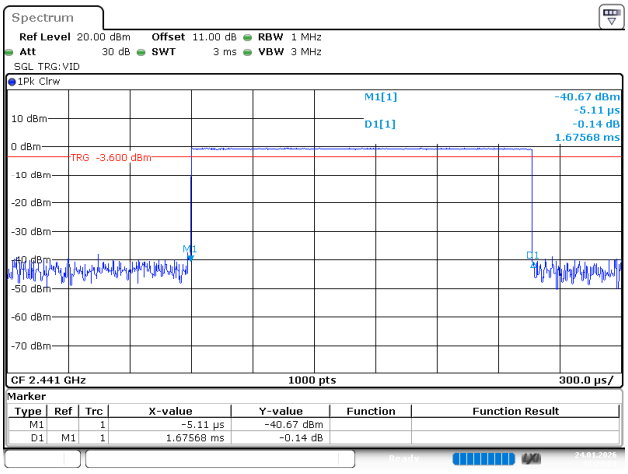
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:21:39

BDR_DH3_Hopping



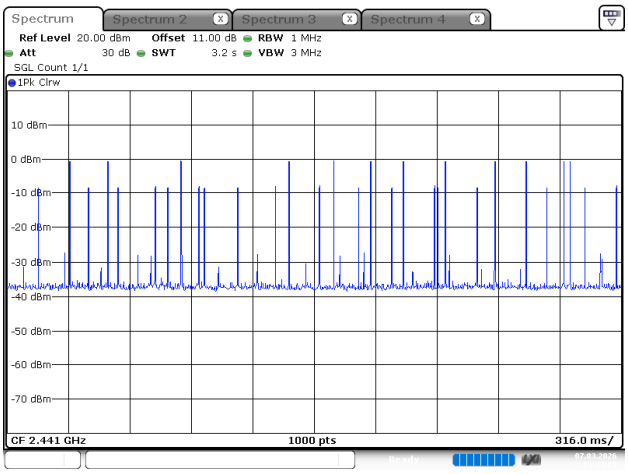
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:22:01

BDR_DH3_Hopping



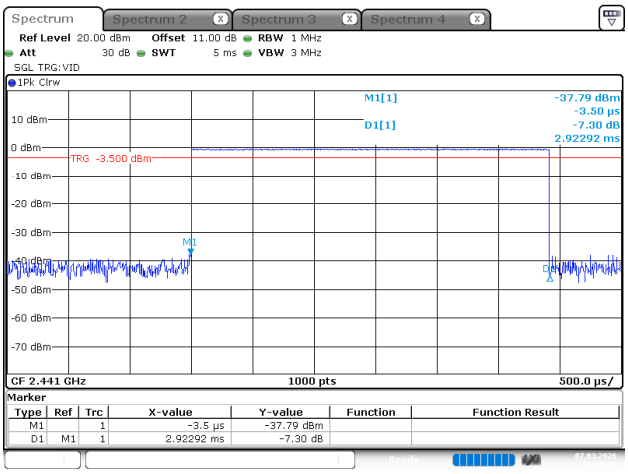
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:22:21

BDR_DH5_Hopping



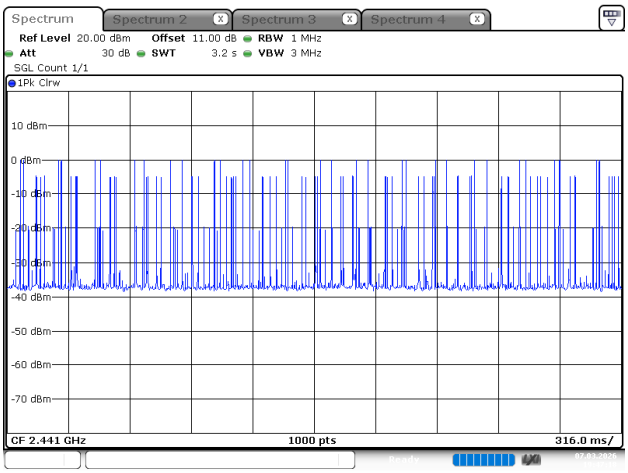
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 7.MAR.2026 19:44:05

BDR_DH5_Hopping



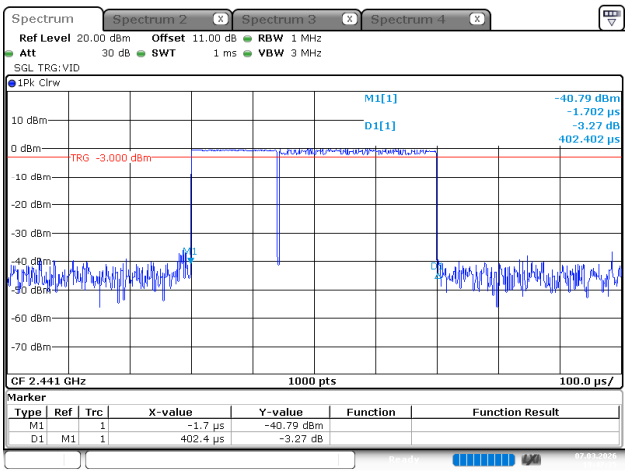
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 7.MAR.2026 19:45:12

2EDR_DH1_Hopping



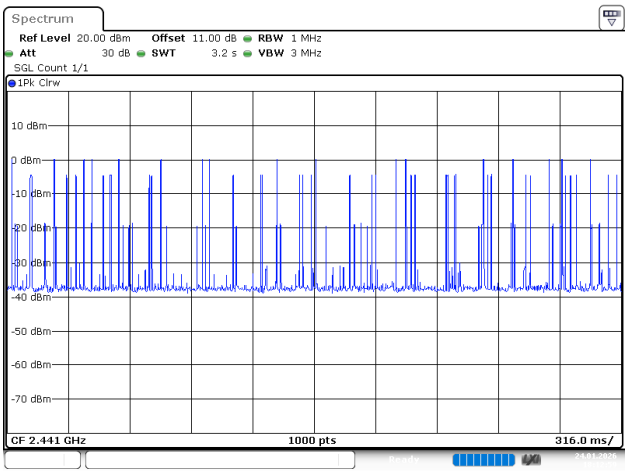
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 7.MAR.2026 19:47:18

2EDR_DH1_Hopping



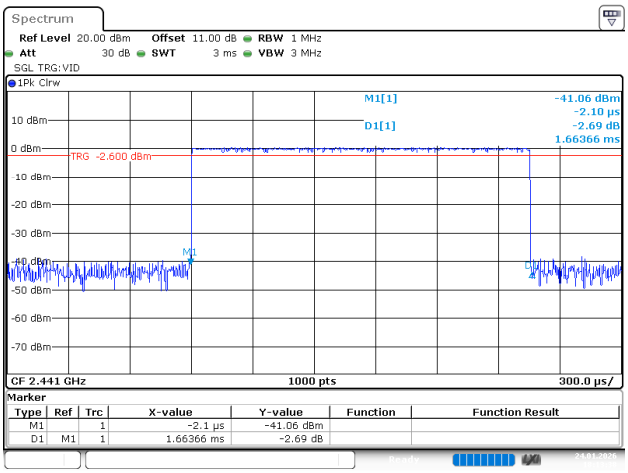
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 7.MAR.2026 19:47:35

2EDR_DH3_Hopping



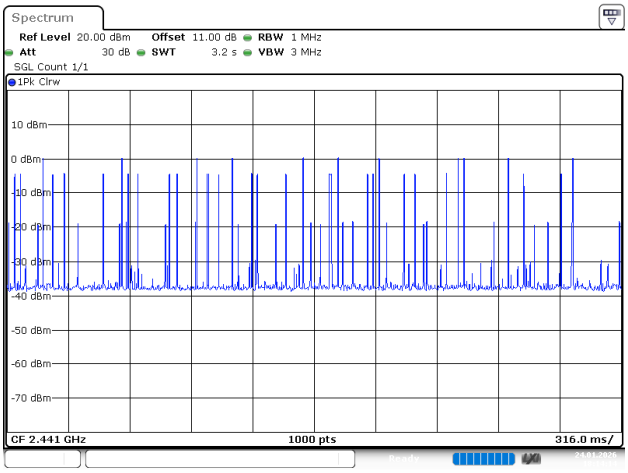
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:12:59

2EDR_DH3_Hopping



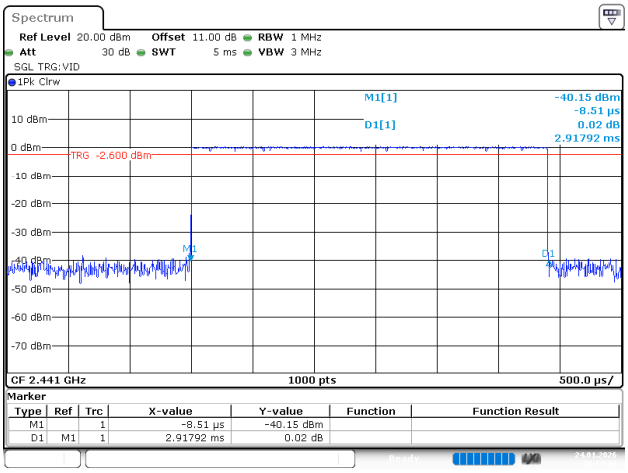
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:13:38

2EDR_DH5_Hopping



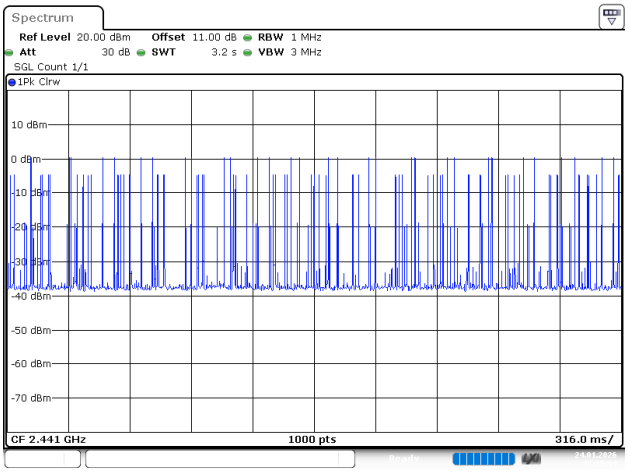
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:14:14

2EDR_DH5_Hopping



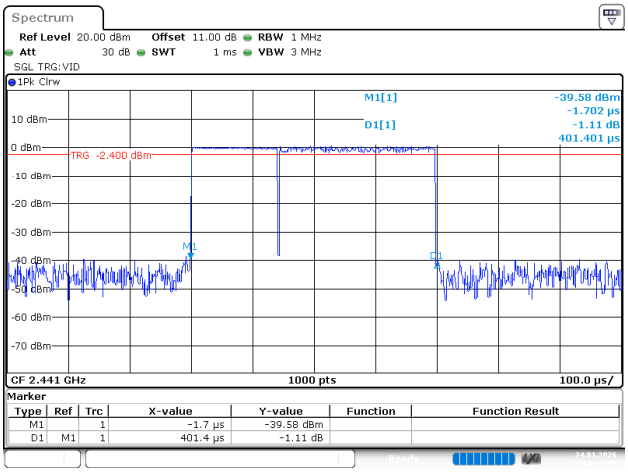
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:14:36

3EDR_DH1_Hopping



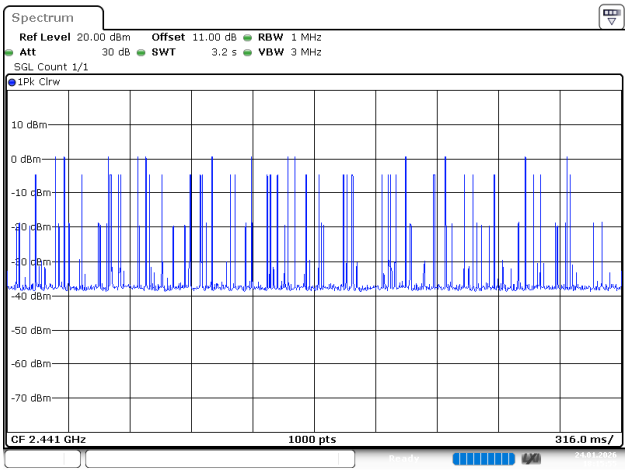
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:15:14

3EDR_DH1_Hopping



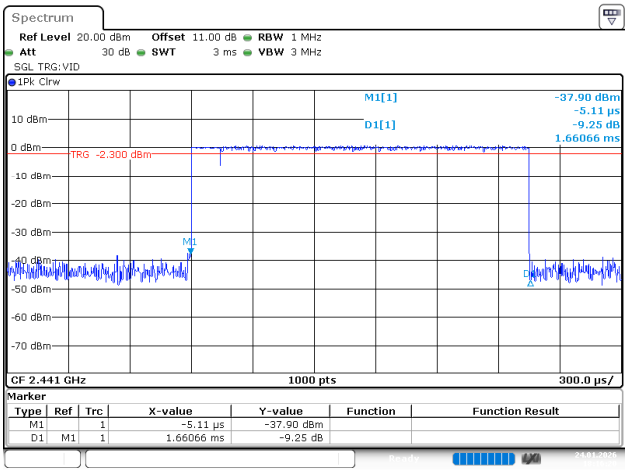
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:15:35

3EDR_DH3_Hopping



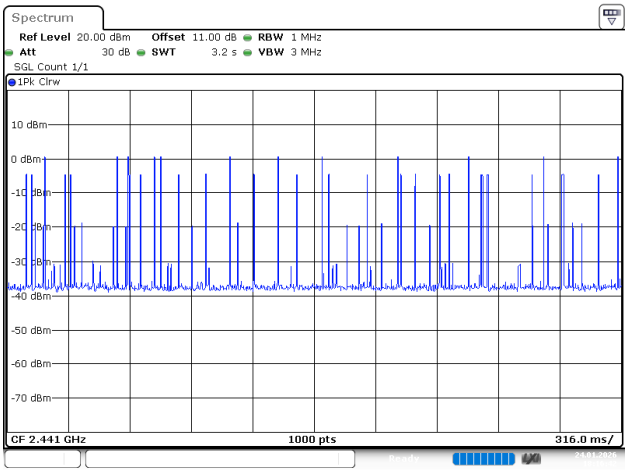
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:15:56

3EDR_DH3_Hopping



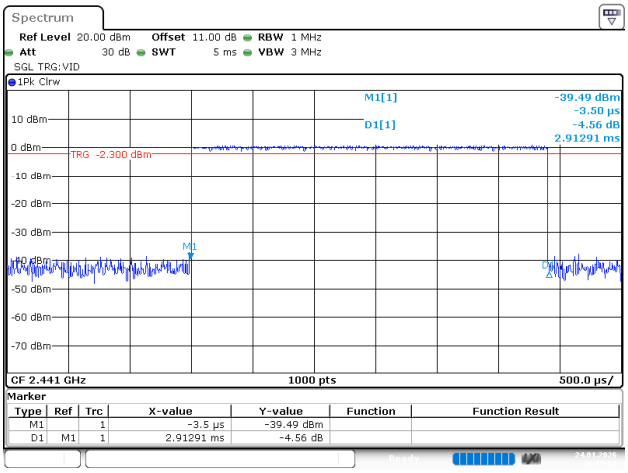
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:16:21

3EDR_DH5_Hopping



ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:16:42

3EDR_DH5_Hopping



ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 18:17:05

5.8 Maximum Conducted Output Power

Test Information:

Serial No.:	3EWH-2	Test Date:	2026/01/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jeff Wei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.3	Relative Humidity: (%)	37	ATM Pressure: (kPa)	101.9

Test Equipment List and Details:

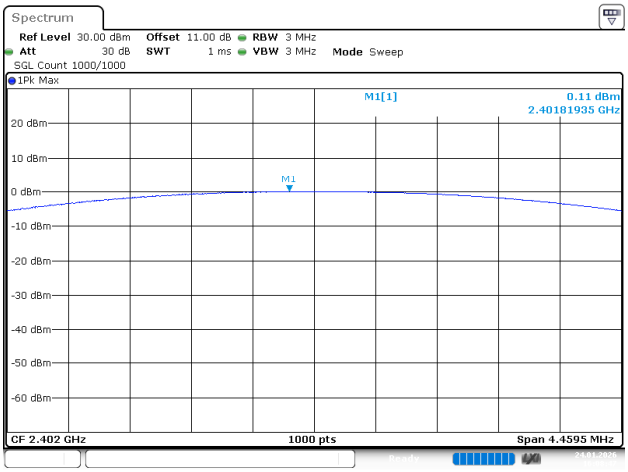
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2025/06/06	2026/06/05
R&S	Spectrum Analyzer	FSV40	101947	2025/07/28	2026/07/27

** 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:

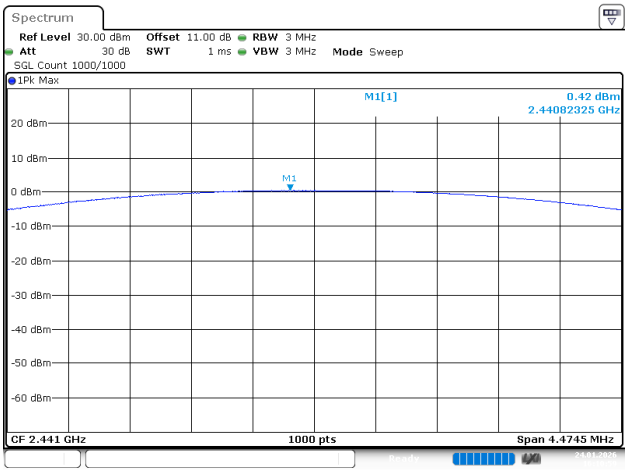
Mode	Test Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Verdict
BDR_DH1	2402	0.11	21.00	Pass
	2441	0.42	21.00	Pass
	2480	0.45	21.00	Pass
2EDR_DH1	2402	0.70	21.00	Pass
	2441	1.03	21.00	Pass
	2480	1.08	21.00	Pass
3EDR_DH1	2402	0.86	21.00	Pass
	2441	1.14	21.00	Pass
	2480	1.14	21.00	Pass
Max. EIRP (dBm):		0.04	36	Pass

BDR_DH1_Low



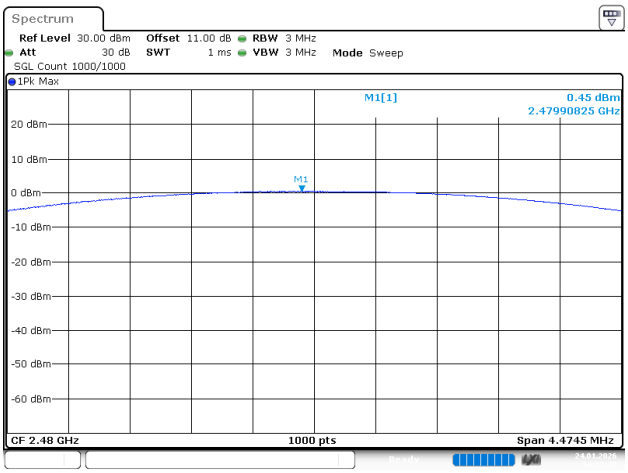
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:08:47

BDR_DH1_Middle



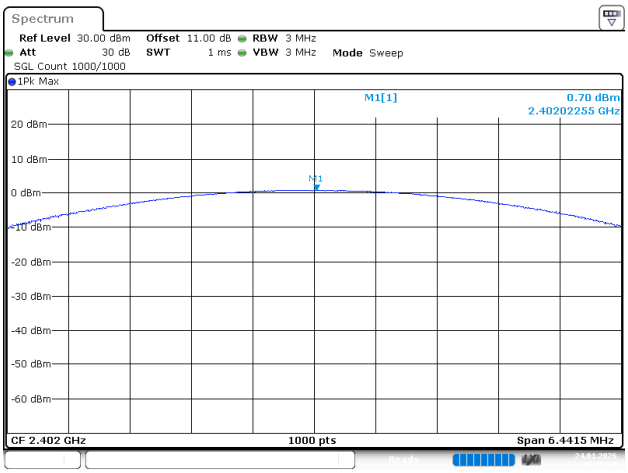
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:11:00

BDR_DH1_High



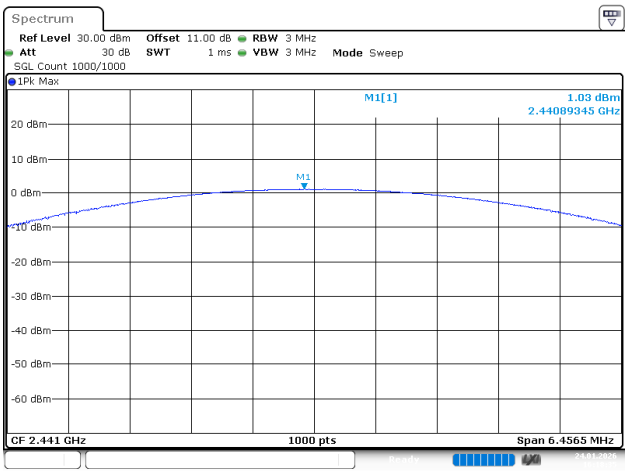
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:12:37

2EDR_DH1_Low



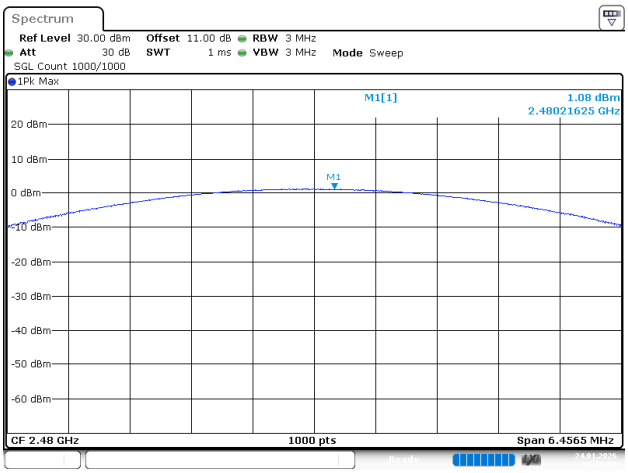
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:15:29

2EDR_DH1_Middle



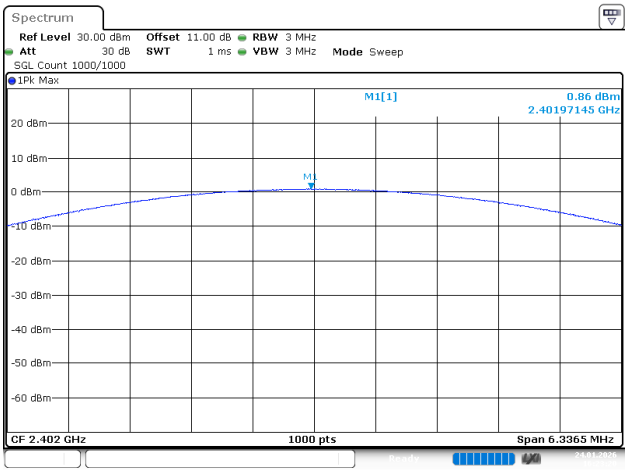
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:18:36

2EDR_DH1_High



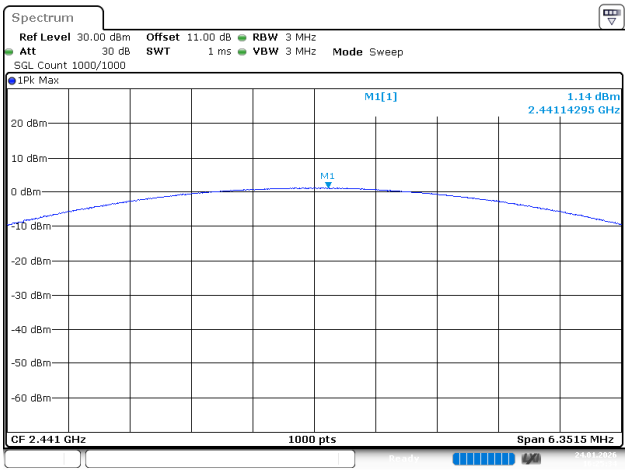
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:20:59

3EDR_DH1_Low



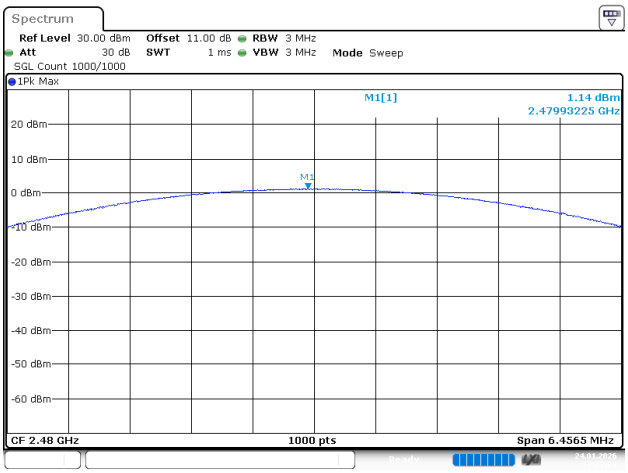
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:23:21

3EDR_DH1_Middle



ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:25:34

3EDR_DH1_High



ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:27:08

5.9 Conducted Spurious Emission

Test Information:

Serial No.:	3EWH-2	Test Date:	2026/01/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jeff Wei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.3	Relative Humidity: (%)	37	ATM Pressure: (kPa)	101.9

Test Equipment List and Details:

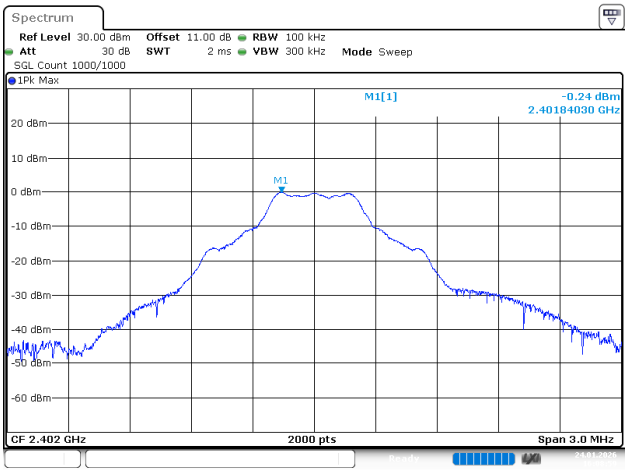
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HUBER+SUHNER	Coaxial Attenuator	6610_SMA-50-1	0064	2025/06/06	2026/06/05
R&S	Spectrum Analyzer	FSV40	101947	2025/07/28	2026/07/27

** 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:

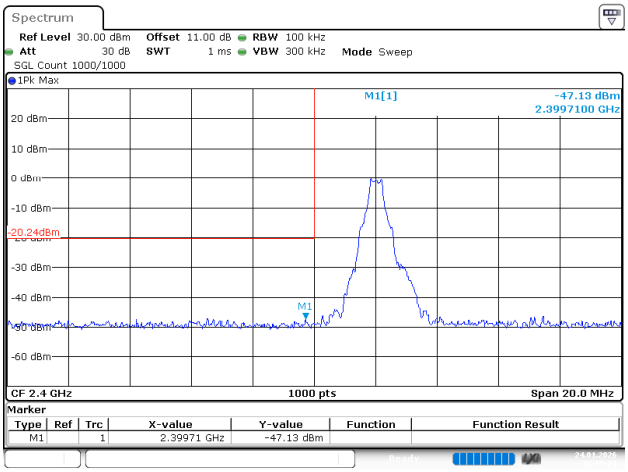
Note: The maximum path attenuation of 30MHz-25GHz was added into the offset.

BDR_DH1_Low



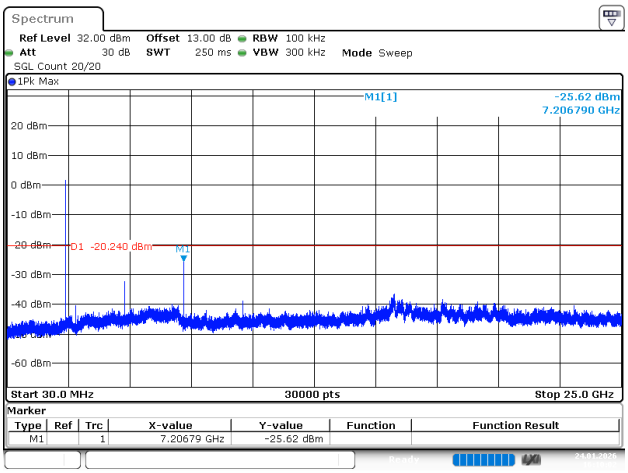
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:08:59

BDR_DH1_Low



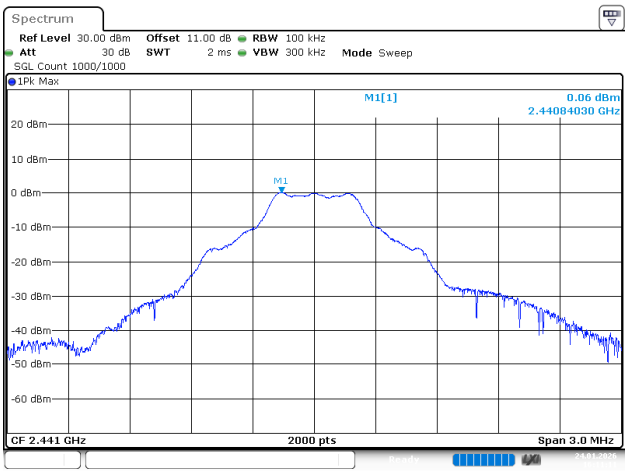
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:09:21

BDR_DH1_Low



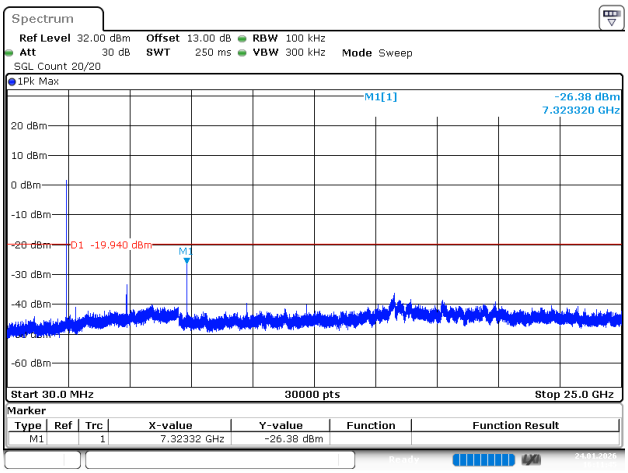
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:10:02

BDR_DH1_Middle



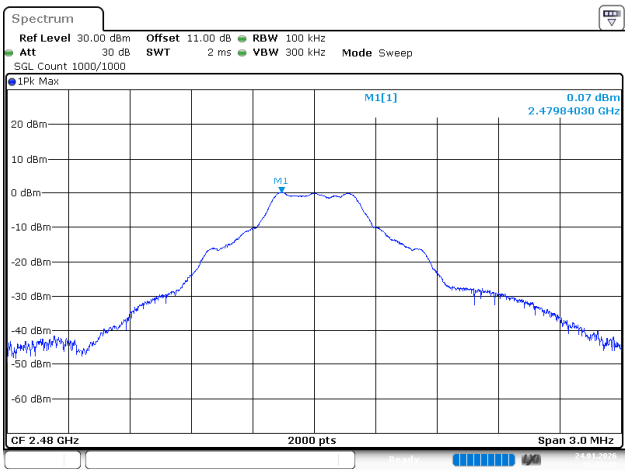
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:11:12

BDR_DH1_Middle



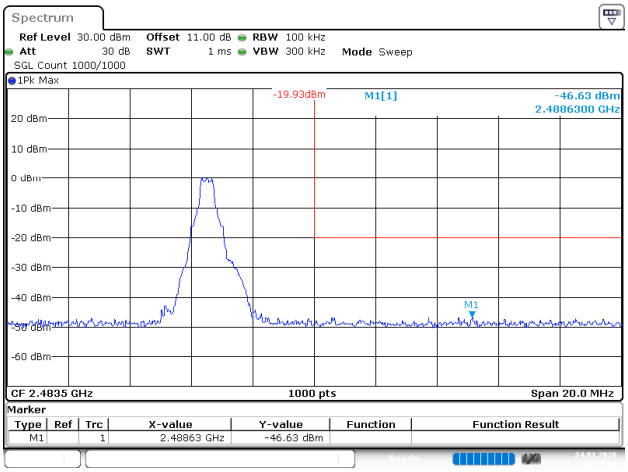
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:11:45

BDR_DH1_High



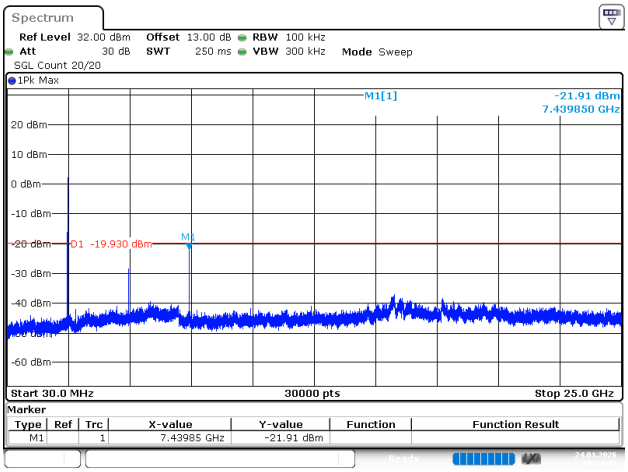
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:12:50

BDR_DH1_High



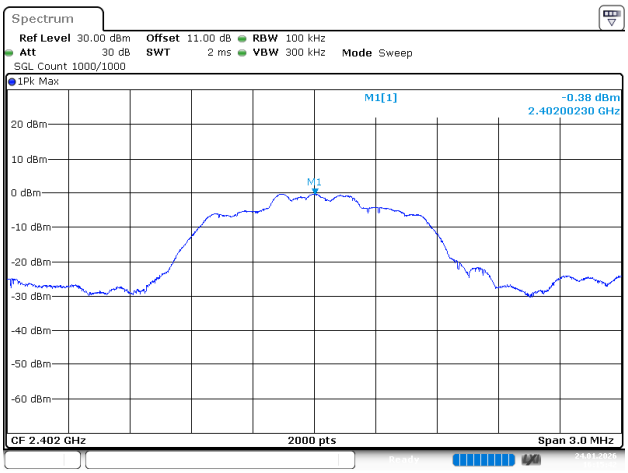
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:13:06

BDR_DH1_High



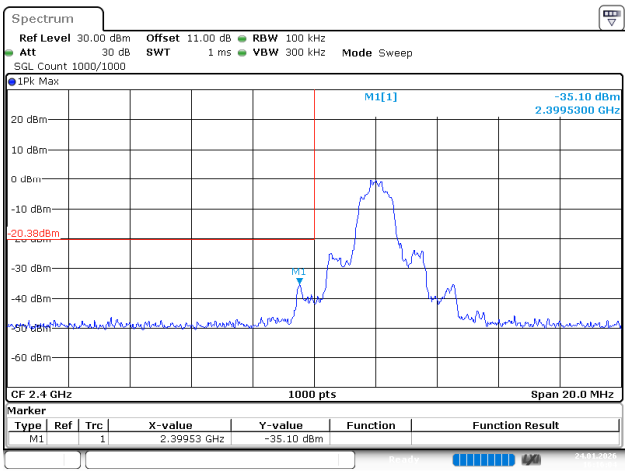
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:13:43

2EDR_DH1_Low



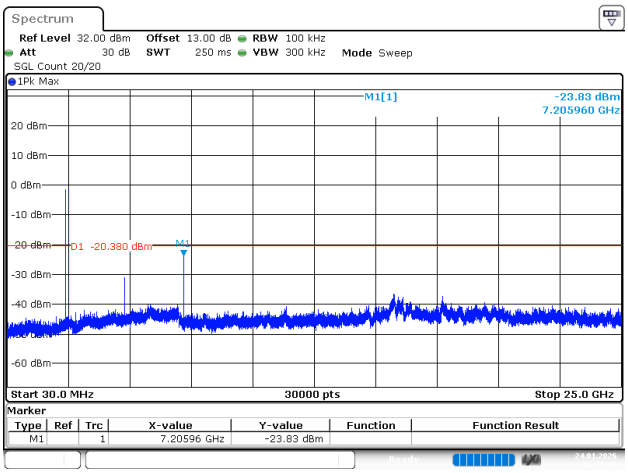
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:15:42

2EDR_DH1_Low



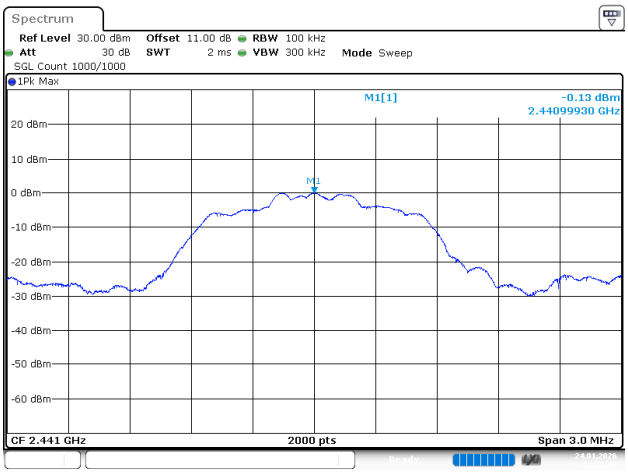
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:16:05

2EDR_DH1_Low



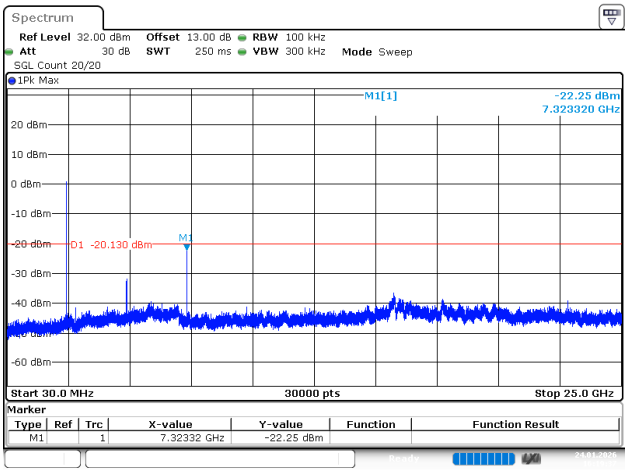
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:16:47

2EDR_DH1_Middle



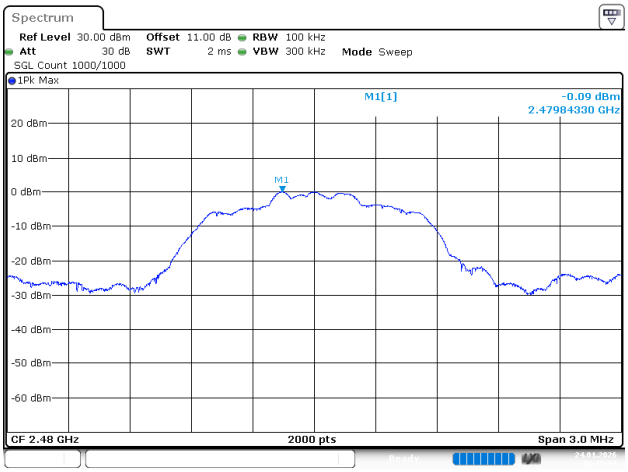
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:18:49

2EDR_DH1_Middle



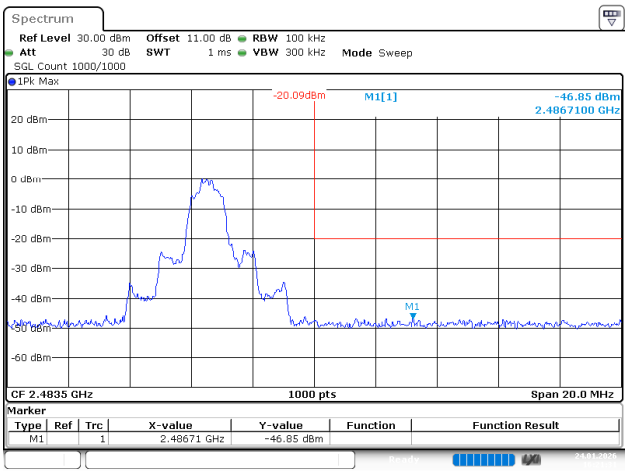
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:19:37

2EDR_DH1_High



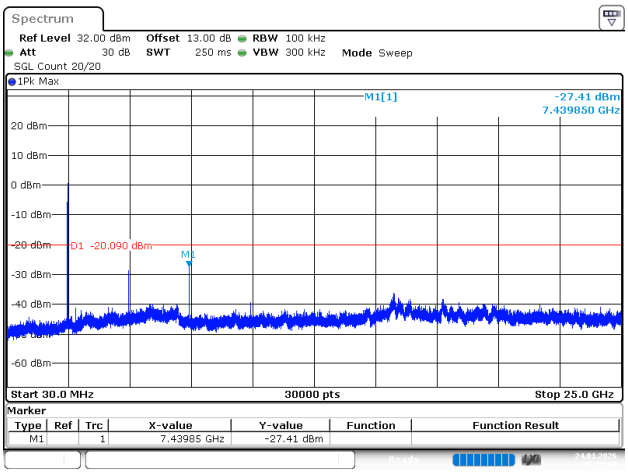
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:21:13

2EDR_DH1_High



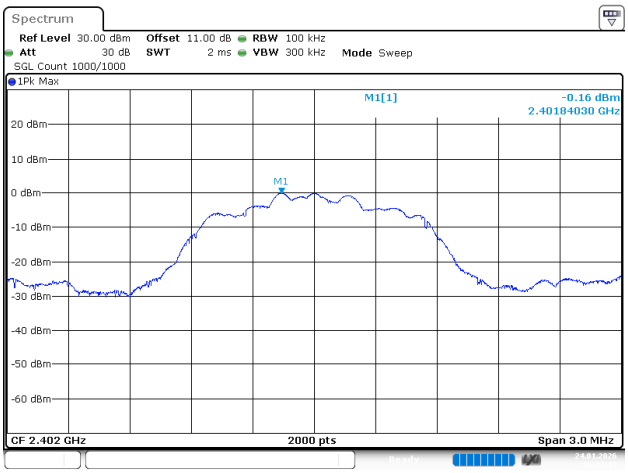
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:21:32

2EDR_DH1_High



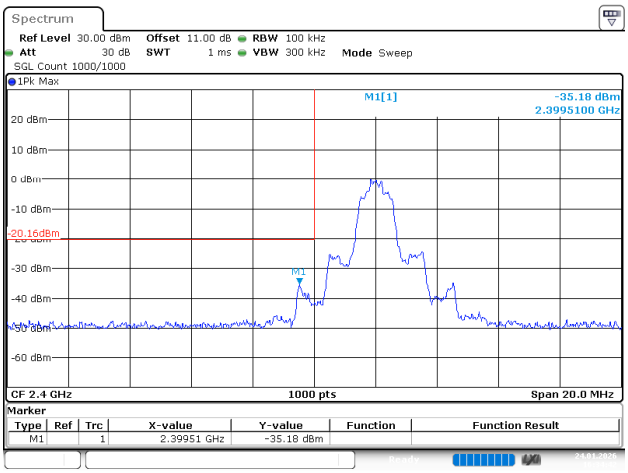
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:22:00

3EDR_DH1_Low



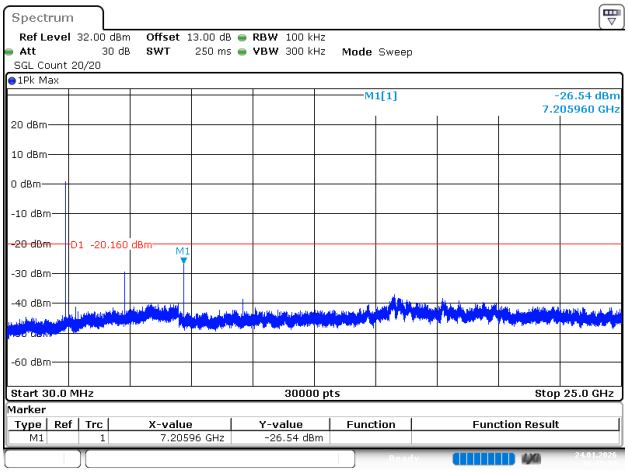
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:34:20

3EDR_DH1_Low



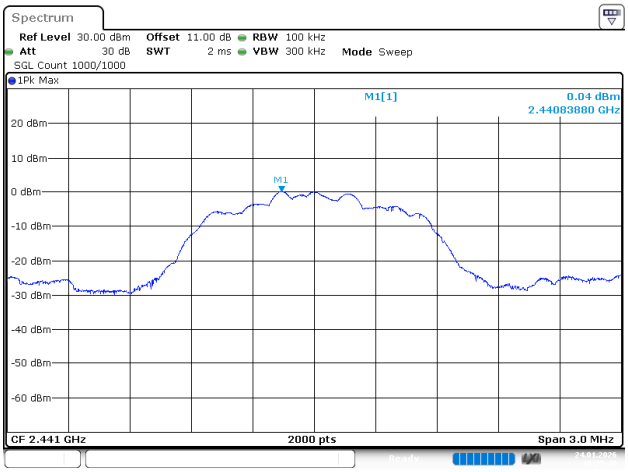
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:34:42

3EDR_DH1_Low



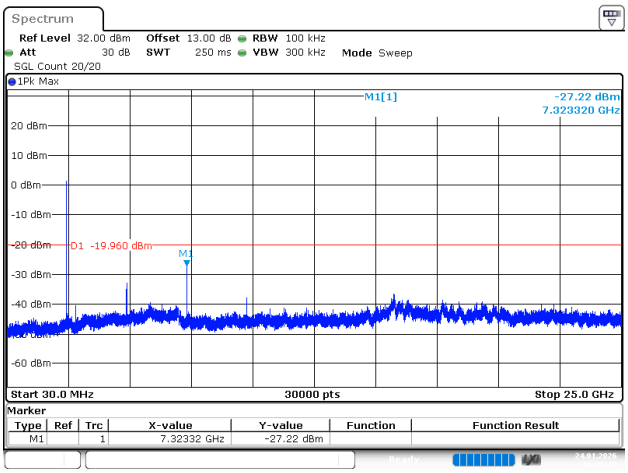
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:35:10

3EDR_DH1_Middle



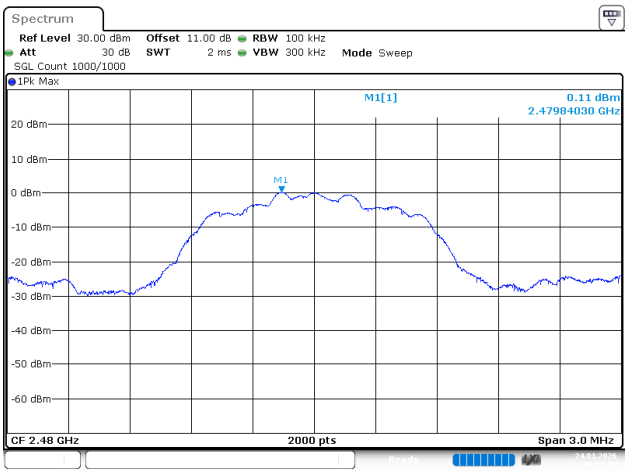
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:25:48

3EDR_DH1_Middle



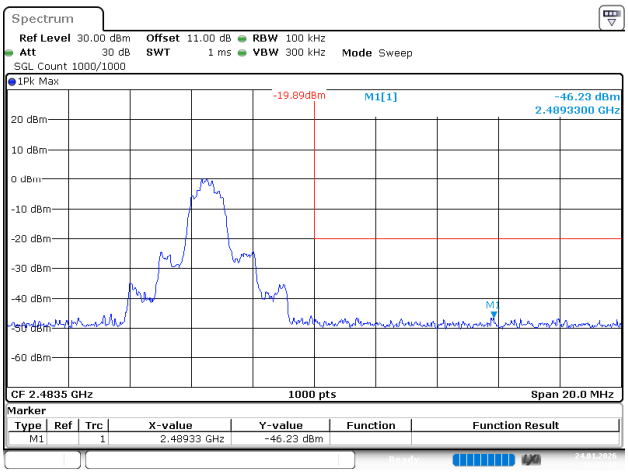
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:26:18

3EDR_DH1_High



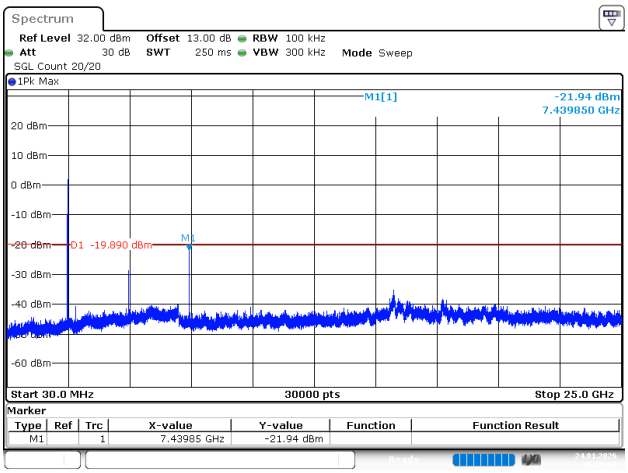
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:27:22

3EDR_DH1_High



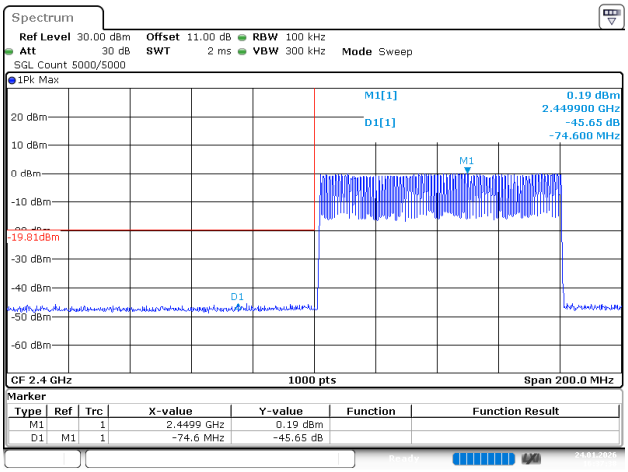
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:27:40

3EDR_DH1_High



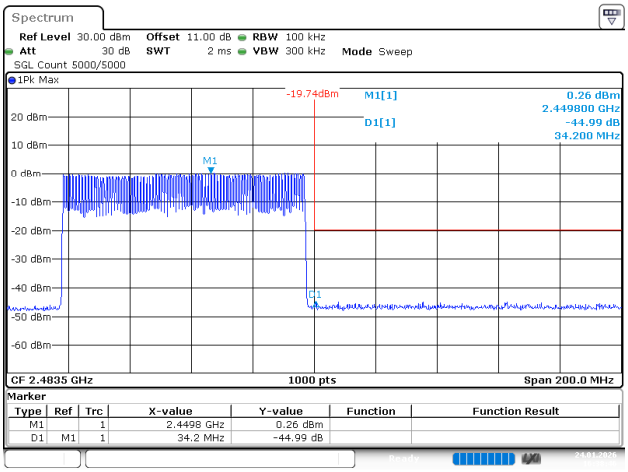
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:28:08

BDR_DH1_Hopping_Lower



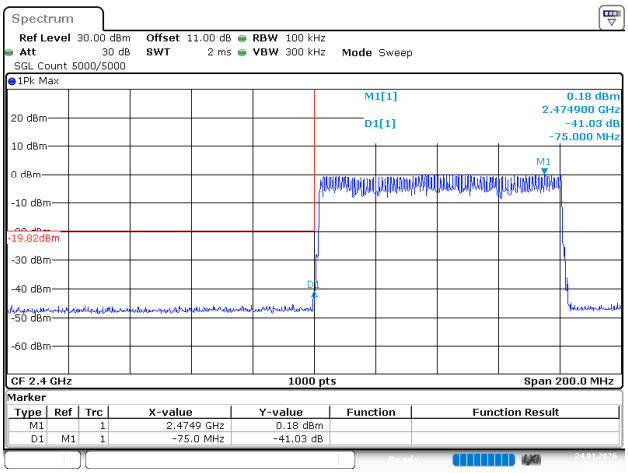
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:37:39

BDR_DH1_Hopping_Upper



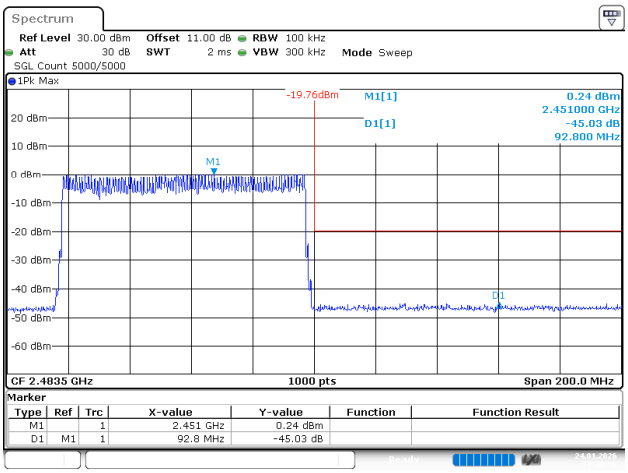
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:38:46

2EDR_DH1_Hopping_Lower



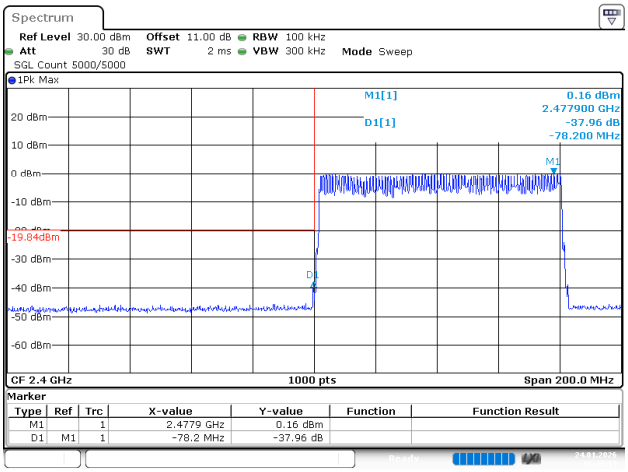
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:40:09

2EDR_DH1_Hopping_Upper



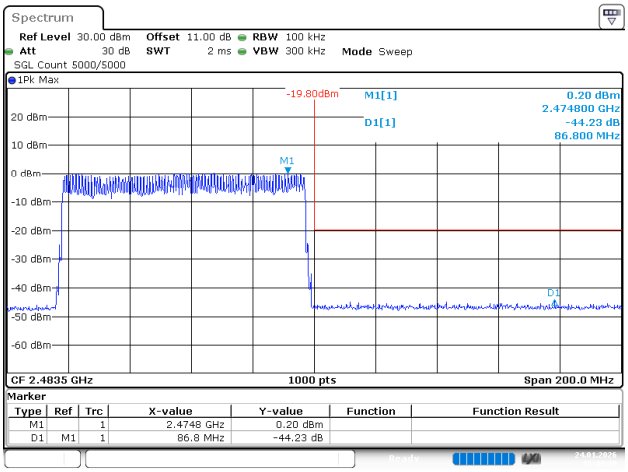
ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:40:58

3EDR_DH1_Hopping_Lower



ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:42:13

3EDR_DH1_Hopping_Upper



ProjectNo.:2502A31388E-RF Tester:Jeff Wei
Date: 24.JAN.2026 16:43:10

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2502A31388E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502A31388E-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2502A31388E-RF-00B-TSP TEST SETUP PHOTOGRAPHS.

EXHIBIT C - RF EXPOSURE EVALUATION

SAR Evaluation

Applicable Standard

According to§15.247(i) and §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 ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(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 ≤ 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 1.5 dBm (1.41 mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
=1.41/5*(√2.480) = 0.4< 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 tune-up conducted power is 1.5dBm(1.41mW), Antenna Gain: -1.1dBi,
EIRP is 0.4 dBm(1.1 mW)

The exemption power(P) limits for routine evaluation in 2402-2480MHz is:
(2480-2450)/(3500-2450)=(P-3)/(2-3)
=>P=2.97 mW@2480 MHz
> 1.41mW

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 *******