



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR240900032701

Rev.: 02

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TEST REPORT

Application No.: SUCR2409000327MO
Applicant: TP-Link Systems Inc.
Address of Applicant: 10 Mauchly, Irvine, CA 92618
Manufacturer: TP-Link Systems Inc.
Address of Manufacturer: 10 Mauchly, Irvine, CA 92618
EUT Description: 5G Mobile Wi-Fi
Model No.: M8550
Trade Mark: tp-link
FCC ID: 2BH7FM8550
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: April 23, 2024 (for report SUCR240400012703)
September 9, 2024 (for report SUCR240900032701)
Date of Test: May 10, 2024 to August 21, 2024 (for report SUCR240400012703)
September 9, 2024 to September 23, 2024 (for report SUCR240900032701)
Date of Issue: May 28, 2025

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Nature Shen

Prepared by: Nature Shen/ Project Manager

Cloud Peng

Approved by: Cloud Peng/ Technical Manager

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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd
Wireless Laboratory

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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		September 23, 2024		Original
02		May 8, 2025		Modify software version

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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	ANSI C63.10 2013 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.2.3.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS

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Remark for SUCR240900032701 issue on September 23, 2024:

This test report (Report No.: SUCR240900032701 issue on September 23, 2024) is based on the original test report (Report No.: SUCR240400012703 issue on September 2, 2024).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report RF Conducted were tested and other test data in this report are based on previous report with report number SUCR240400012703 issue on September 2, 2024.

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3 General Information

3.1 Details of Client

Applicant:	TP-Link Systems Inc.
Address of Applicant:	10 Mauchly, Irvine, CA 92618
Manufacturer:	TP-Link Systems Inc.
Address of Manufacturer:	10 Mauchly, Irvine, CA 92618

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, Tizzy Song

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

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3.4 General Description of EUT

EUT Description:	5G Mobile Wi-Fi		
Model No.:	M8550		
Trade Mark:	tp-link		
Hardware Version:	V1.0		
Software Version:	M8550(US)1.0		
IMEI:	RF Conducted	352921970001450	
	RSE & AC power line	352921970001443	
Operation Frequency:	802.11b/g/n(HT20)/ax(HE20):		2412MHz to 2462MHz
	802.11n(HT40)/ax(HE40):		2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)	
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)	
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)	
Number of Channels:	802.11b/g/n(HT20)/ax(HE20): 11 802.11n(HT40)/ax(HE40): 7		
Channel Spacing:	5MHz		
Smart System:	☐ SISO	802.11b/g/n/ax	
	☒ MIMO	TXBF: 802.11n/ax: 2Tx & 2Rx	
	☒ Diversity	802.11b/g: 2Tx & 2Rx	
Antenna Type:	Internal Antenna		
Antenna Gain:	3.98dBi(Ant1); 3.98dBi(Ant2);		
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable:	1.0dB		
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information. 802.11b/g only supports non-Beamforming mode; 802.11n(HT20)/ n(HT40)/ ax (HE20)/ ax (HE40) supports non-Beamforming and Beamforming mode.			

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Operation Frequency of each channel (802.11b/g/n HT20 /ax HE20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency of each channel (802.11n HT40 /ax HE40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				
Remark: In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:							
Channel	Frequency for 802.11 b/g/n (HT20)/ax (HE20)			Frequency for 802.11n (HT40)/ax(HE40)			
The Lowest channel	2412MHz			2422MHz			
The Middle channel	2437MHz			2437MHz			
The Highest channel	2462MHz			2452MHz			

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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	5
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	CDD/MIMO - Data Rate
802.11b	/	2 Mbps
802.11g	/	12 Mbps
802.11n (HT 20)	/	MCS0 (13 Mbps)
802.11n (HT 40)	/	MCS0 (27 Mbps)
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)

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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
15.203 requirement: 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, 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. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The antenna is Internal Antenna and no consideration of replacement. The best case gain of the antenna is 3.98dBi(Ant1); 3.98dBi(Ant2);.* <i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i> <i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i>	

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Directional Gain Calculations for MIMO:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Basic methodology with NANT transmit antennas, each with the same directional gain GANT dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be computed as follows:

- If any transmit signals are correlated with each other,
Directional gain = $GANT + 10 \log(NANT)$ dBi
- If all transmit signals are completely uncorrelated with each other,
Directional gain = GANT

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi

- If transmit signals are correlated, then
Directional gain = $10 \log[(10G1/20 + 10G2/20 + \dots + 10GN/20)^2 / NANT]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- If all transmit signals are completely uncorrelated, then
Directional gain = $10 \log[(10G1/10 + 10G2/10 + \dots + 10GN/10)/NANT]$ dBi

All antennas have the same gain:

TX Paths	Numer of spatial streams	Max Antenna Gain(dBi)	Beamforming Directional Gain(dBi)	Power DG (dBi)	PSD DG (dBi)
2	1	3.98	6.99	3.98	6.99

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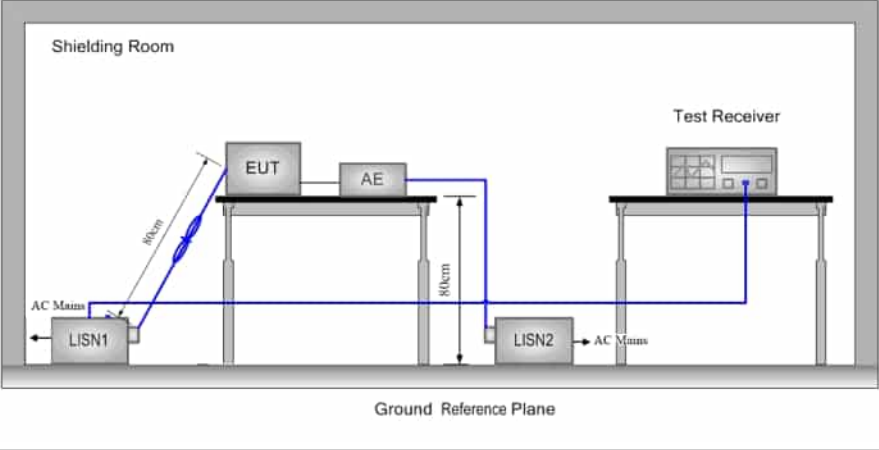
4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		

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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass

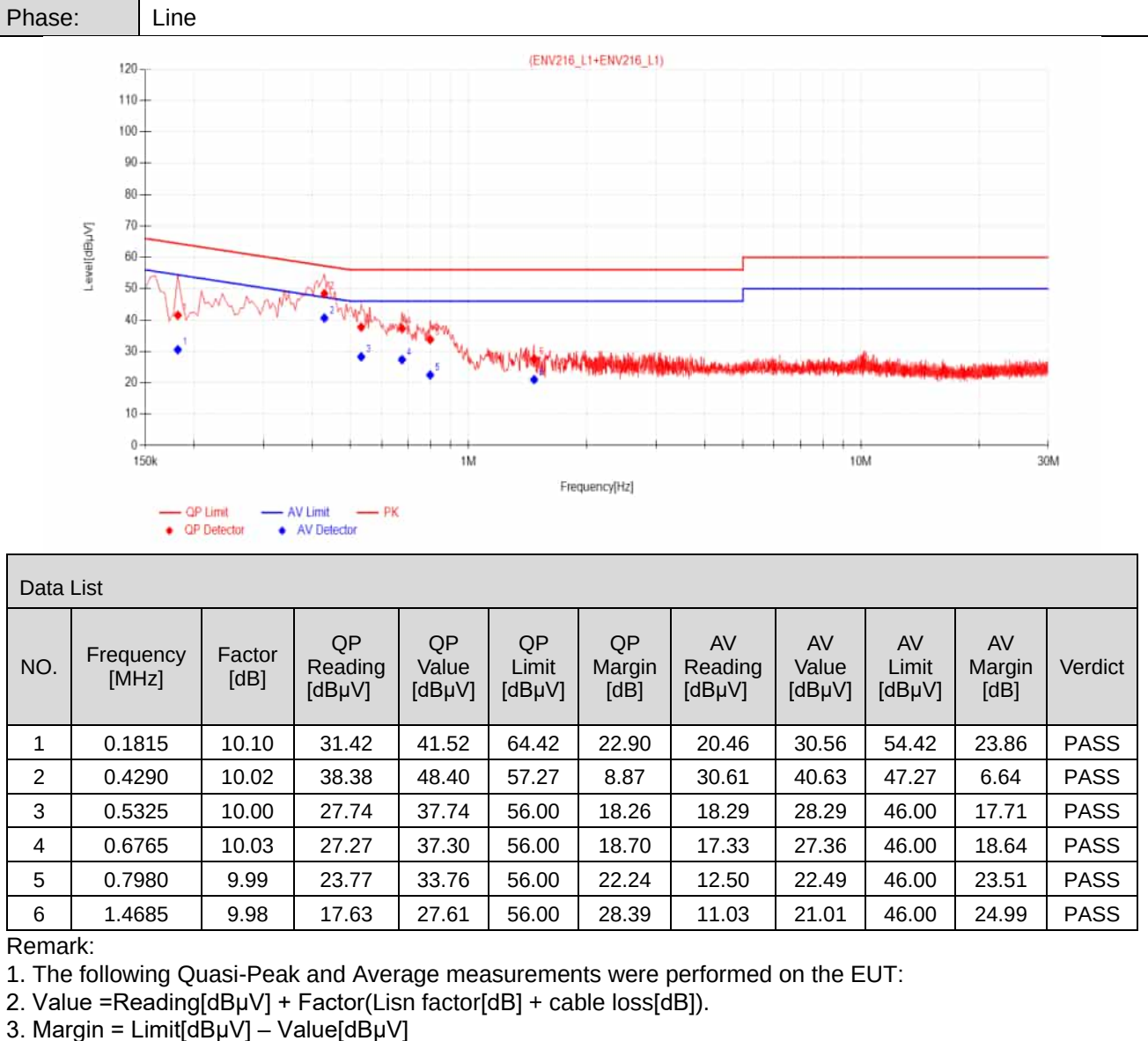
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

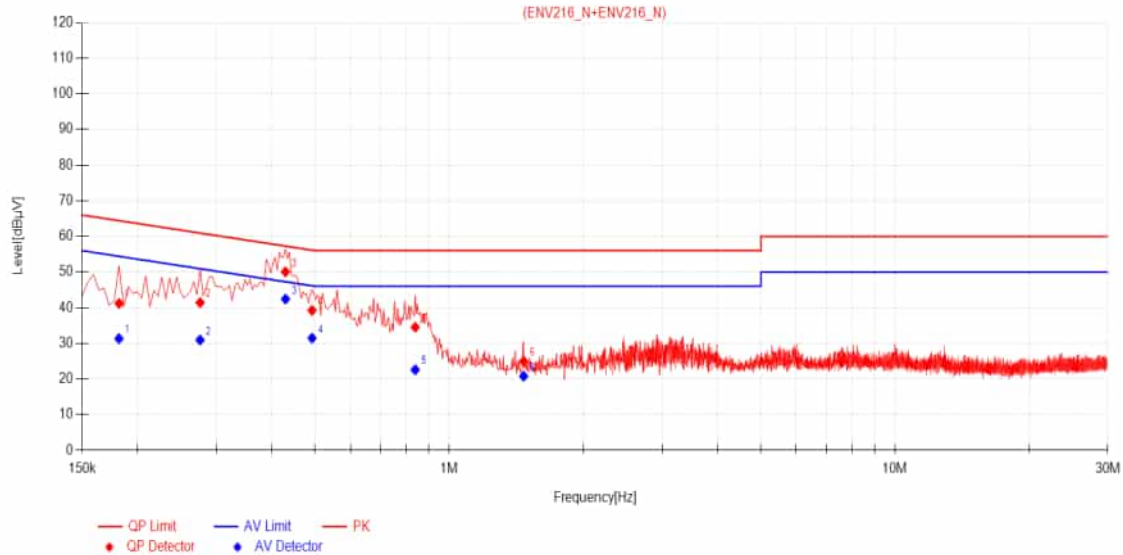


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Phase: Neutral



Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1815	10.13	31.07	41.20	64.42	23.22	21.20	31.33	54.42	23.09	PASS
2	0.2760	10.18	31.26	41.44	60.94	19.50	20.76	30.94	50.94	20.00	PASS
3	0.4290	10.16	39.92	50.08	57.27	7.19	32.26	42.42	47.27	4.85	PASS
4	0.4920	10.12	29.12	39.24	56.13	16.89	21.34	31.46	46.13	14.67	PASS
5	0.8385	9.98	24.54	34.52	56.00	21.48	12.60	22.58	46.00	23.42	PASS
6	1.4685	9.98	14.98	24.96	56.00	31.04	10.80	20.78	46.00	25.22	PASS

Remark:

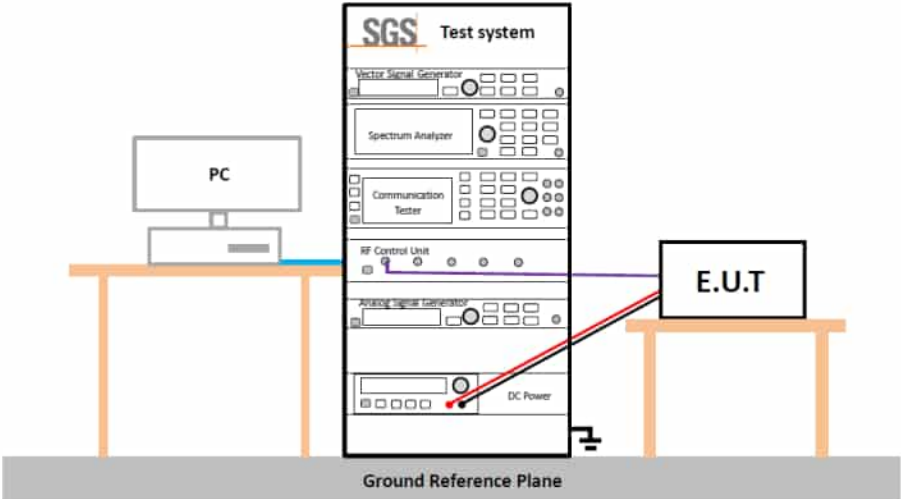
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBμV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBμV] – Value[dBμV]

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4.3 Duty Cycle

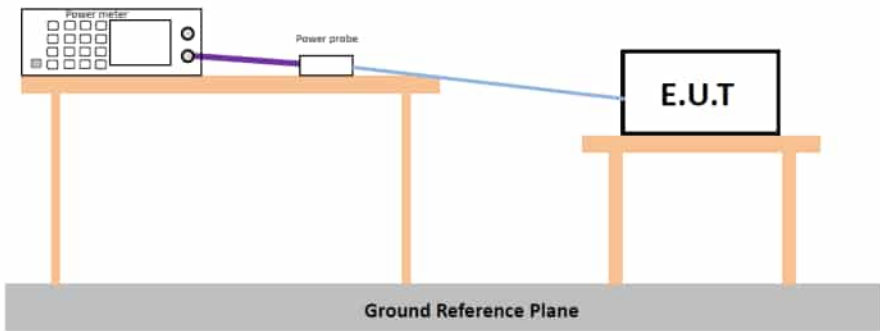
Test Requirement:	ANSI C63.10 :2013 Section 11.6
Test Method:	ANSI C63.10 :2013 Section 11.6
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	

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4.4 Conducted Output Power

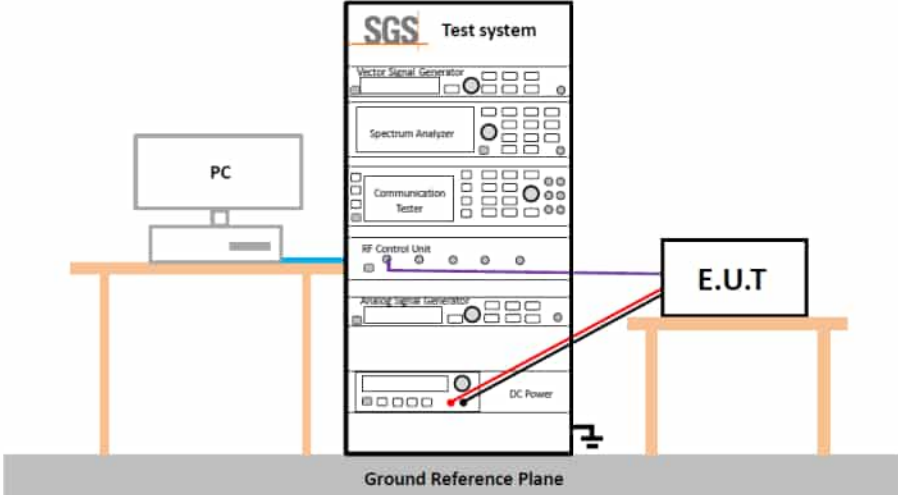
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.2.3.2
Test Setup:	 * Test with power meter (Detector function: Average)
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	

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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

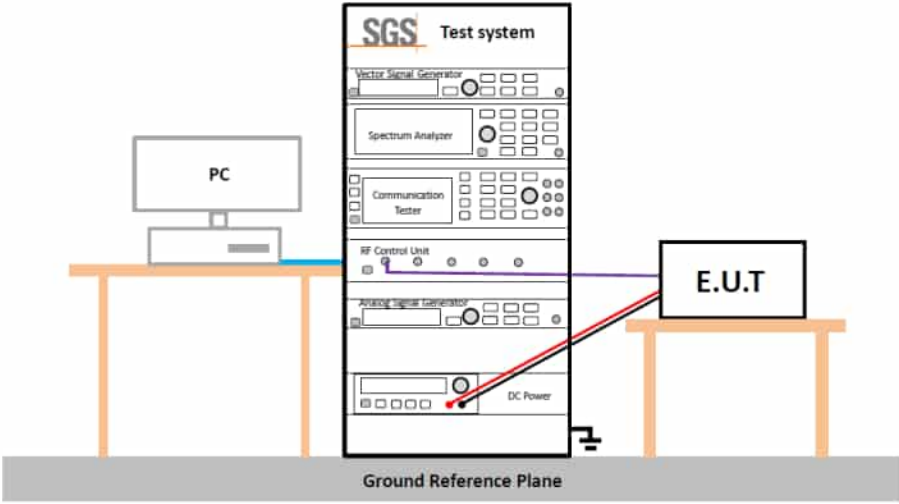
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≥ 500 kHz for DTS Bandwidth
Test Results:	Pass
The detailed test data see: Appendix	

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4.6 Power Spectral Density

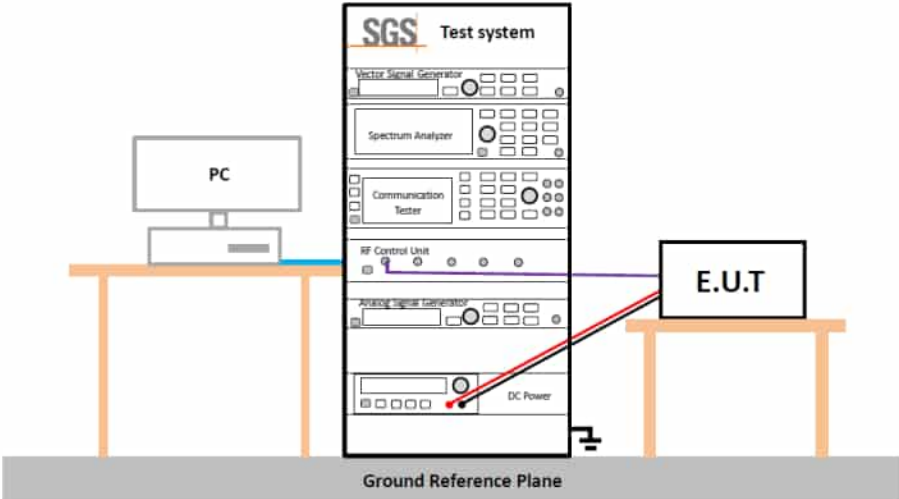
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: Appendix	

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4.7 Band-edge for RF Conducted Emissions

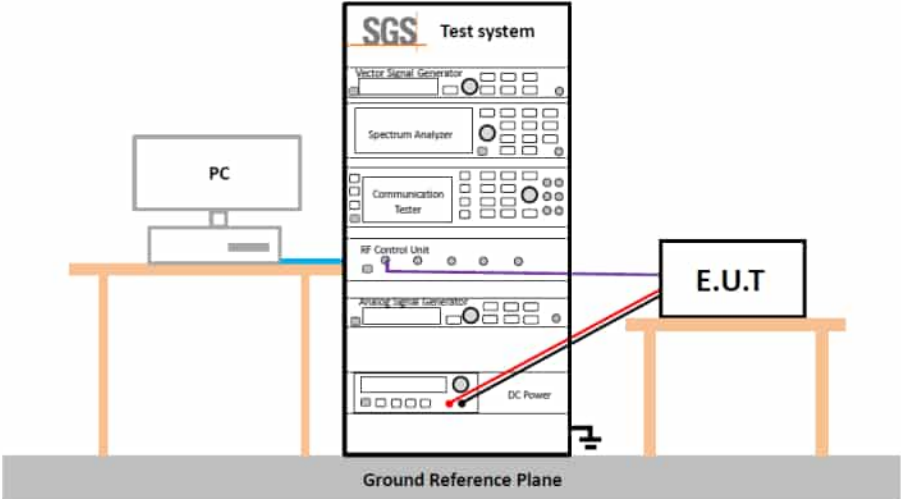
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	Average: The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.
Test Results:	Pass
The detailed test data see: Appendix	

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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	Average: The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.
Test Results:	Pass
The detailed test data see: Appendix	

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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Limit:	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	3MHz	Peak
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

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Test Setup:

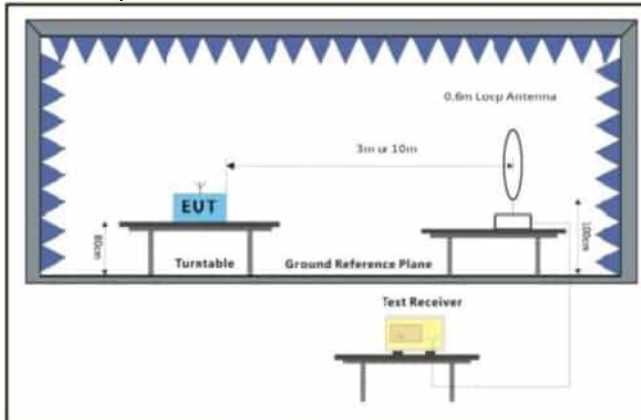


Figure 1. Below 30MHz

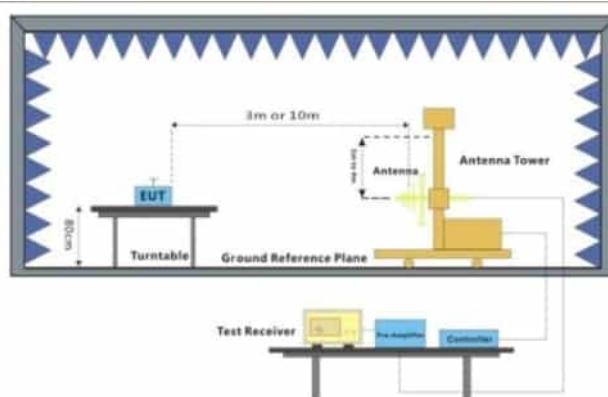


Figure 2. 30MHz to 1GHz

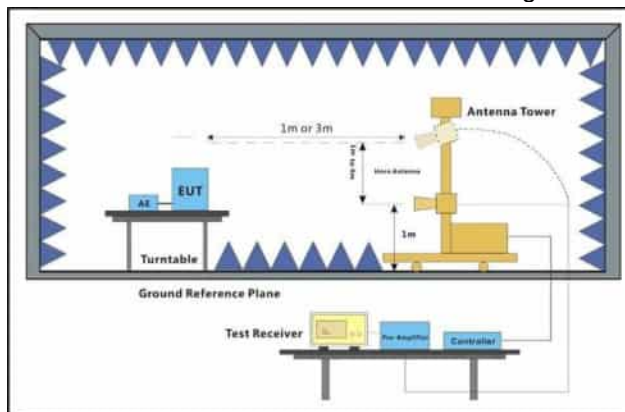


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and

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	then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Test the EUT in the lowest channel, the middle channel ,the Highest channel. - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete. - The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported - The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. - At a measurement distance of 1 meter the limit line was increased by $20 \times \text{LOG}(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.

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Final Test Mode:	Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	

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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

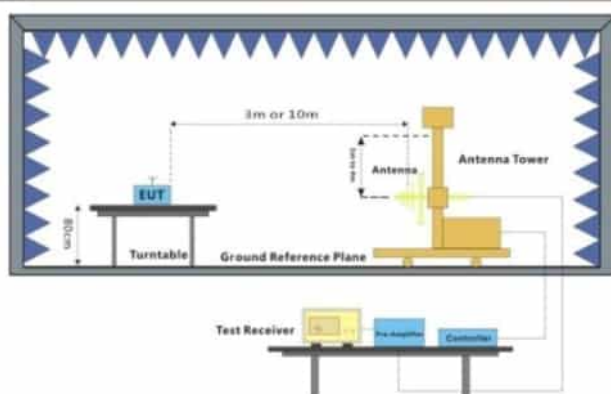


Figure 1. 30MHz to 1GHz

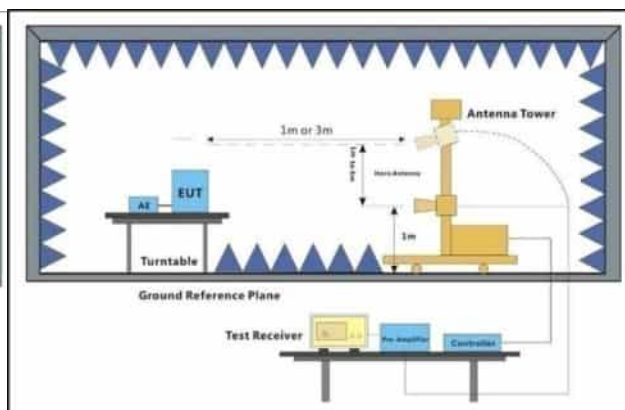


Figure 2. Above 1 GHz

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Test Procedure:	- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel - Test the EUT in the lowest channel , the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.

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	Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	

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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 1.0\%$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 1.0\%$
7	Conduction Emission	$\pm 2.90\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission	$\pm 3.13\text{dB}$ (9k -30MHz)
		$\pm 4.88\text{dB}$ (30M -1GHz)
		$\pm 4.75\text{dB}$ (1GHz to 18GHz)
		$\pm 4.77\text{dB}$ (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	2022/11/09	2025/11/08
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2024/02/18	2025/02/17
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2024/05/08	2025/05/07
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2024/05/08	2025/05/07
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	2024/05/09	2025/05/08
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2024/02/04	2025/02/03
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2024/02/04	2025/02/03
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2023/11/21	2024/11/20
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2023/11/21	2024/11/20
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2024/02/04	2025/02/03
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2023/11/21	2024/11/20

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Conduction Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2024/02/01	2025/01/31
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2024/02/08	2025/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2024/02/04	2025/02/03
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2024/02/04	2025/02/03
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR

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RSE Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2023/03/04	2026/03/03
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2024/02/08	2025/02/07
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2024/05/08	2025/05/07
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2023/11/21	2024/11/20
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2024/02/01	2025/01/31
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9168	SUWI-01-11-04	2023/11/25	2024/11/24
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2023/11/25	2024/11/24
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2025/05/11
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2025/05/12
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2023/11/21	2024/11/20
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2023/11/21	2024/11/20
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2023/11/21	2024/11/20
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR

Remark: NCR=No Calibration Requirement.

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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.

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Appendix

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1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	MIMO	2412	/	/	0.664	0.676	98.22	0.08	0.03
		2437	/	/	0.664	0.677	98.08	0.08	0.03
		2462	/	/	0.665	0.677	98.23	0.08	0.03
802.11g	MIMO	2412	/	/	2.096	2.111	99.29	0.03	0.00
		2437	/	/	2.096	2.111	99.29	0.03	0.00
		2462	/	/	2.096	2.112	99.24	0.03	0.03
802.11n (HT20)	MIMO	2412	/	/	5.428	5.444	99.71	0.01	0.04
802.11n (HT40)	MIMO	2422	/	/	5.428	5.443	99.72	0.01	0.00
802.11ax (HE20)	MIMO	2412	RU242	Left	5.444	5.460	99.71	0.01	0.04
		2437	RU242	Left	5.444	5.460	99.71	0.01	0.04
		2462	RU242	Left	5.444	5.460	99.71	0.01	0.04
802.11ax (HE40)	MIMO	2422	RU484	Left	5.444	5.460	99.71	0.01	0.04
		2437	RU484	Left	5.445	5.460	99.73	0.01	0.03
		2452	RU484	Left	5.444	5.460	99.71	0.01	0.04

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1.1.2 Ant2

Ant2									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	MIMO	2412	/	/	0.664	0.676	98.22	0.08	0.04
		2437	/	/	0.667	0.677	98.52	0.06	0.07
		2462	/	/	0.664	0.677	98.08	0.08	0.07
802.11g	MIMO	2412	/	/	2.097	2.112	99.29	0.03	0.03
		2437	/	/	2.096	2.112	99.24	0.03	0.03
		2462	/	/	2.096	2.112	99.24	0.03	0.03
802.11n (HT20)	MIMO	2412	/	/	5.428	5.444	99.71	0.01	0.04
802.11n (HT40)	MIMO	2422	/	/	5.428	5.444	99.71	0.01	0.04
802.11ax (HE20)	MIMO	2412	RU242	Left	5.445	5.462	99.69	0.01	0.03
		2437	RU242	Left	5.444	5.460	99.71	0.01	0.04
		2462	RU242	Left	5.446	5.462	99.71	0.01	0.03
802.11ax (HE40)	MIMO	2422	RU484	Left	5.444	5.460	99.71	0.01	0.04
		2437	RU484	Left	32.297	33.937	95.17	0.22	0.00
		2452	RU484	Left	5.445	5.460	99.73	0.01	0.03

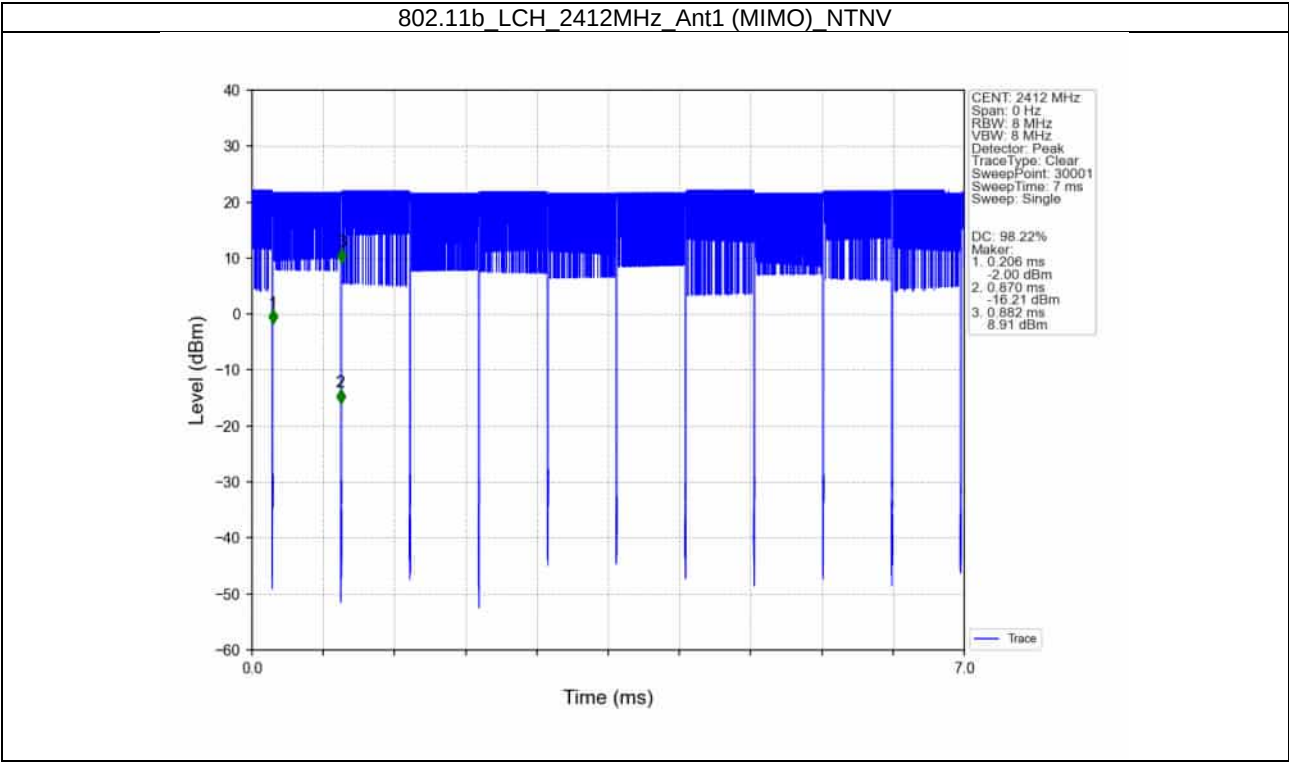
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1.2 Test Graph

1.2.1 Ant1

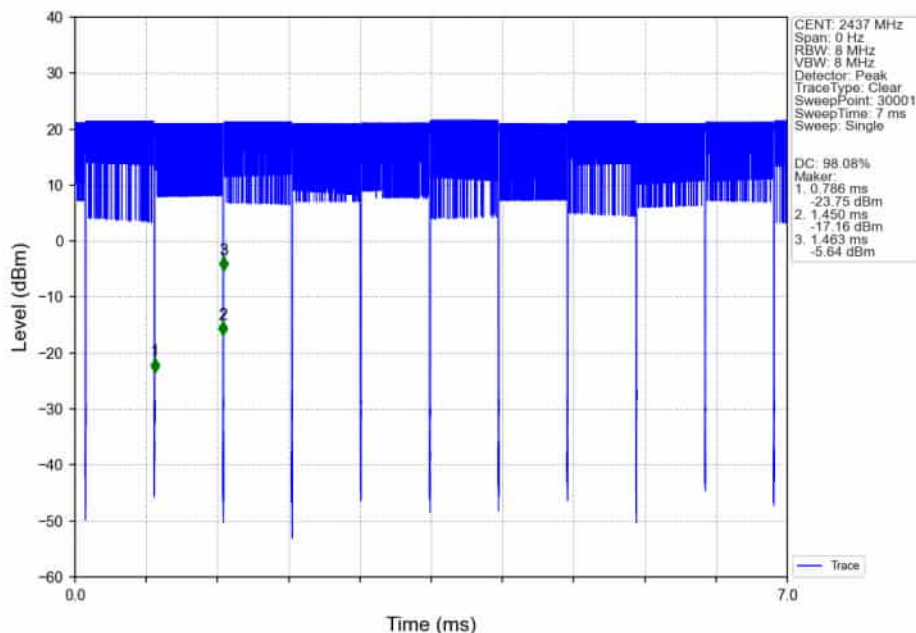


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802.11b_MCH_2437MHz_Ant1 (MIMO)_NTNV



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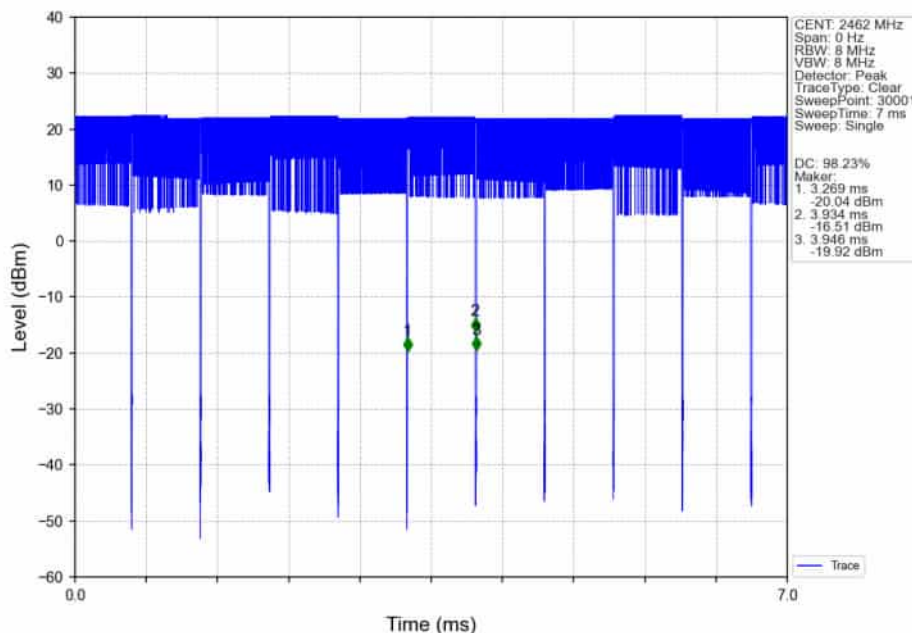
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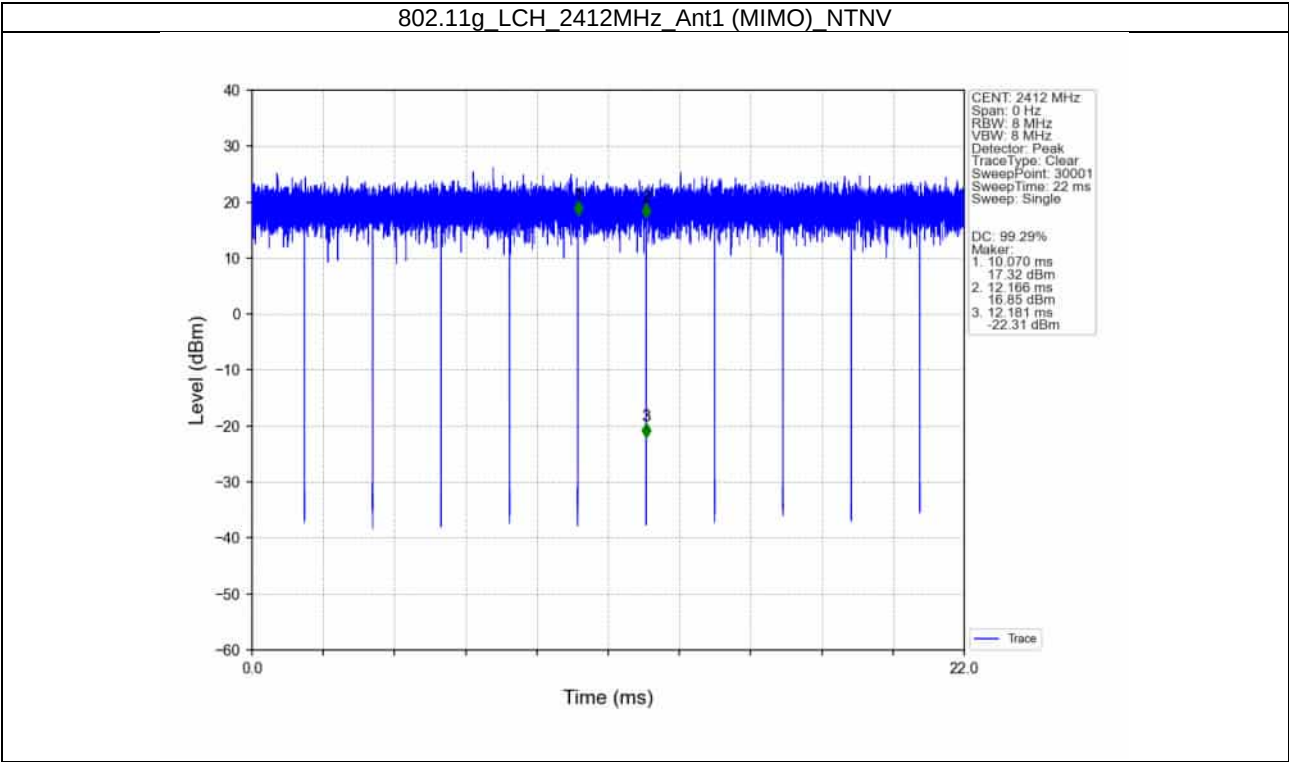
802.11b_HCH_2462MHz_Ant1 (MIMO) NTN



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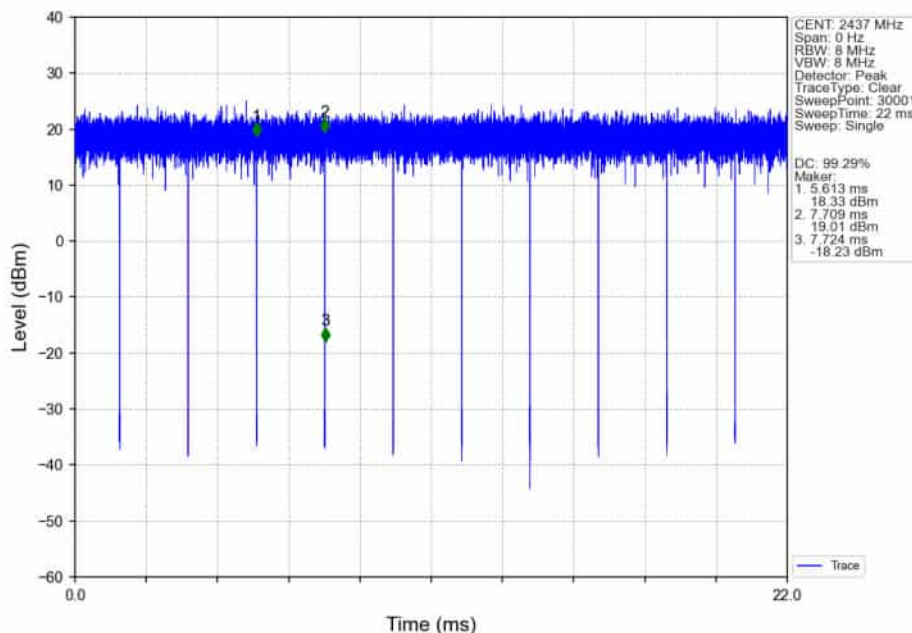


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802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV

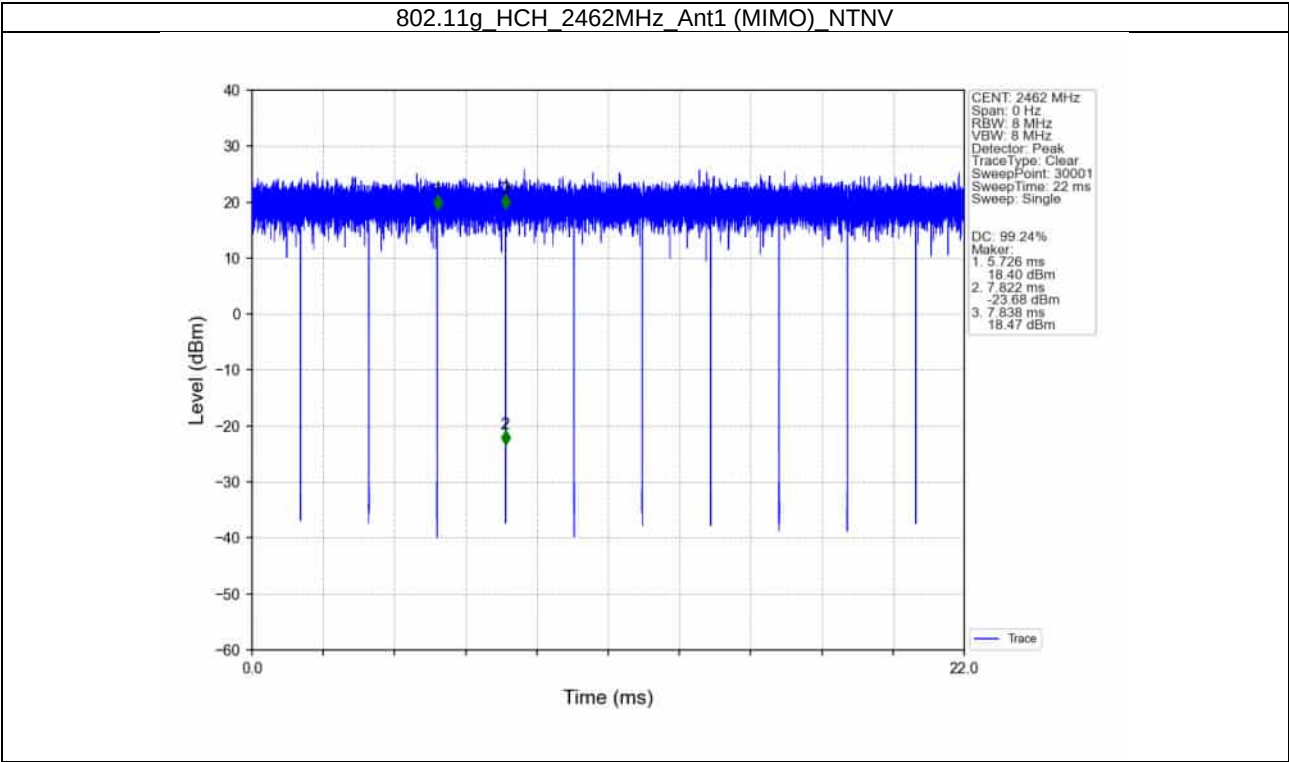


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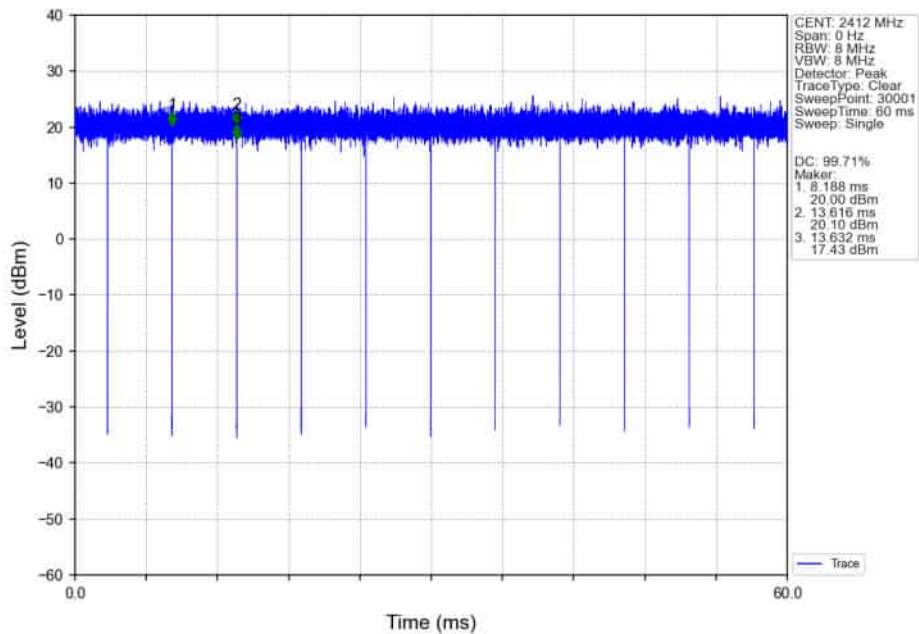


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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV

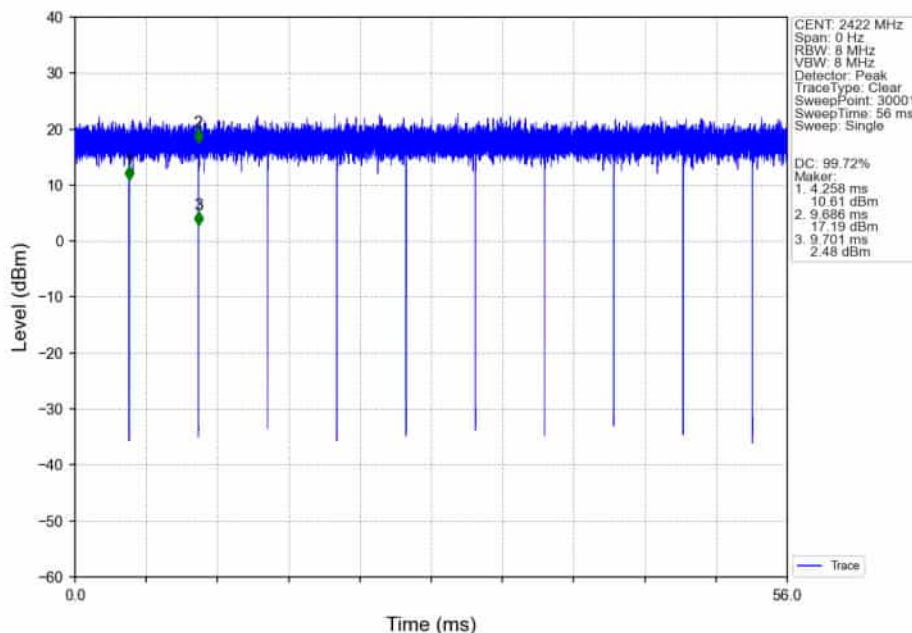


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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV

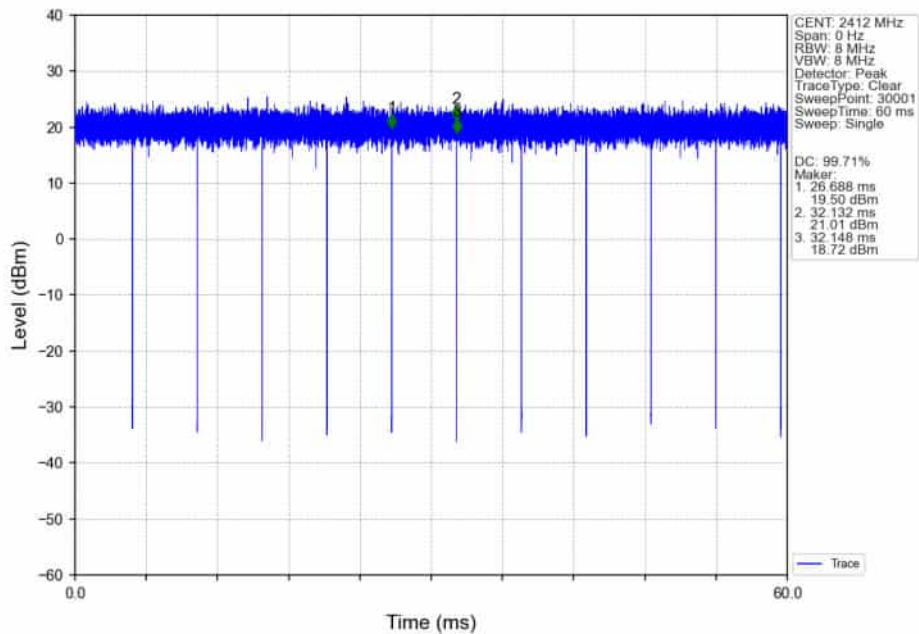


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802.11ax(HE20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV

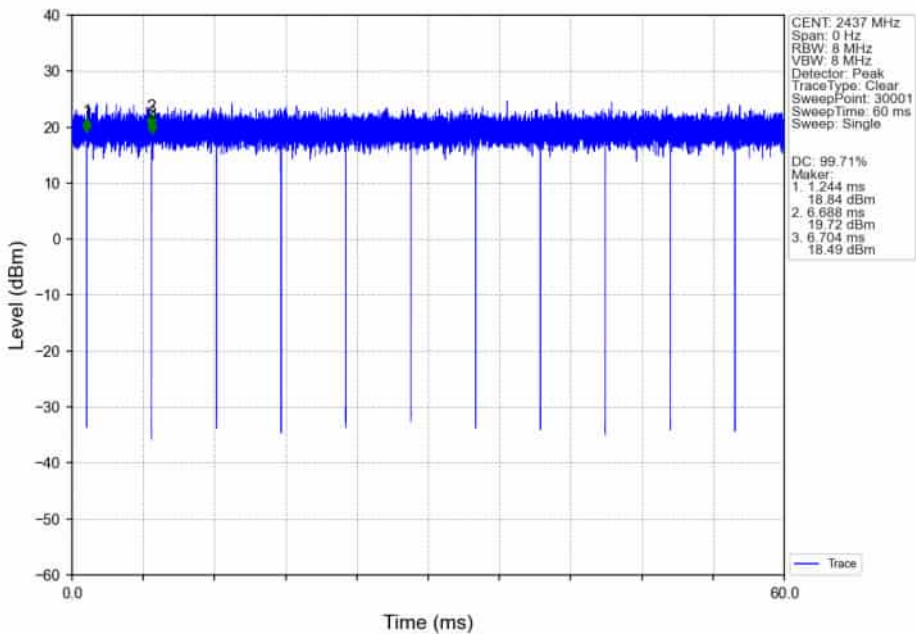


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802.11ax(HE20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



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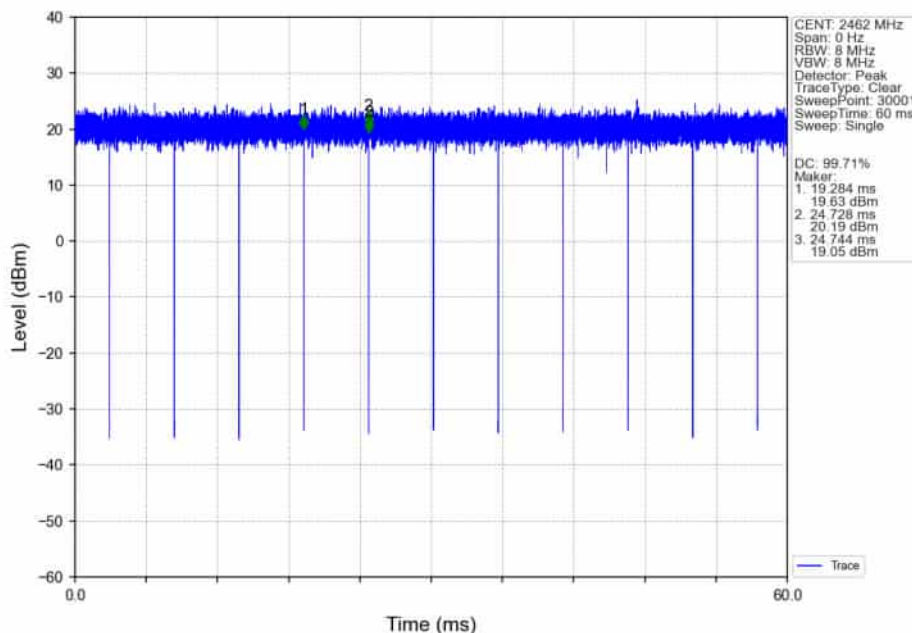
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802.11ax(HE20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV

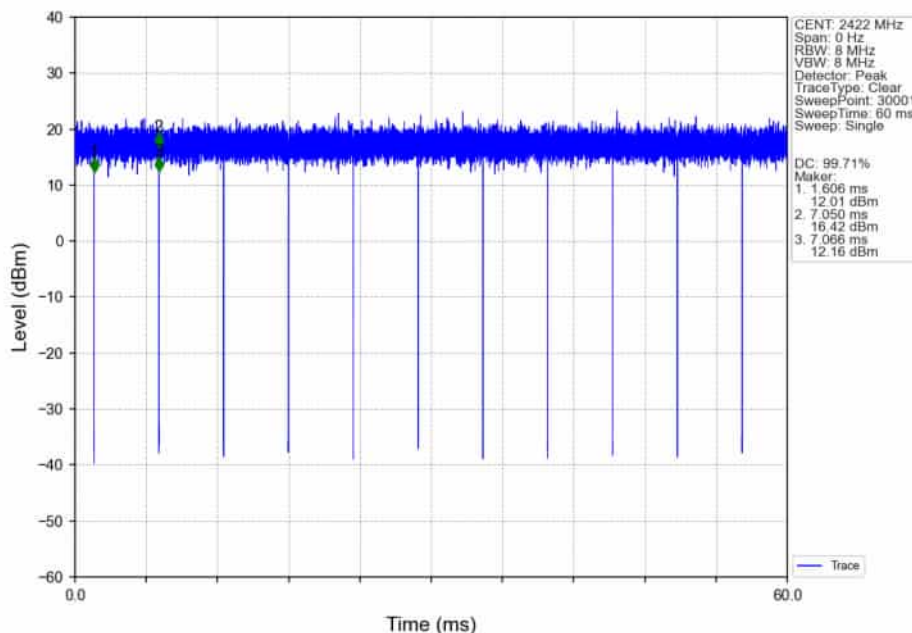


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802.11ax(HE40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV

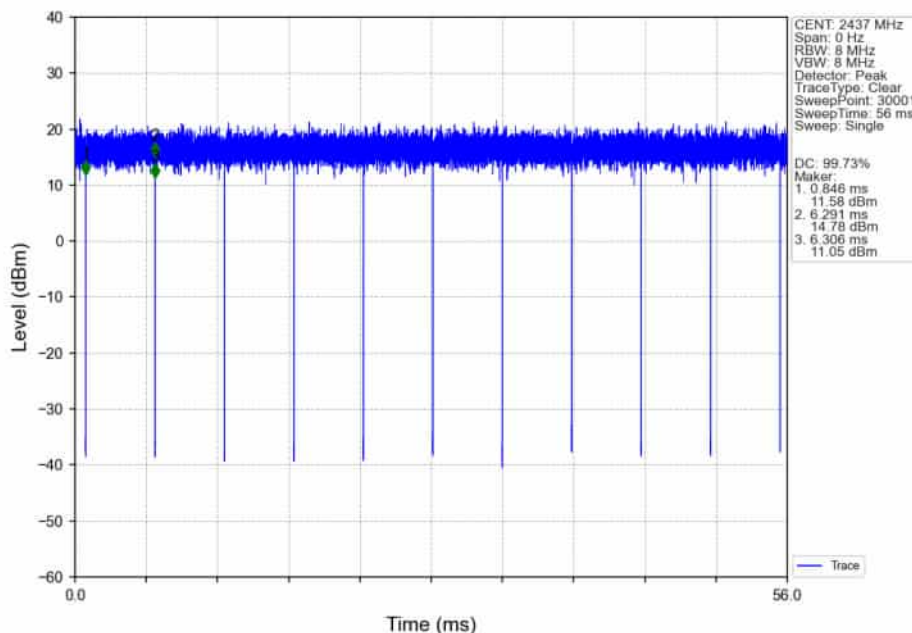


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802.11ax(HE40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV

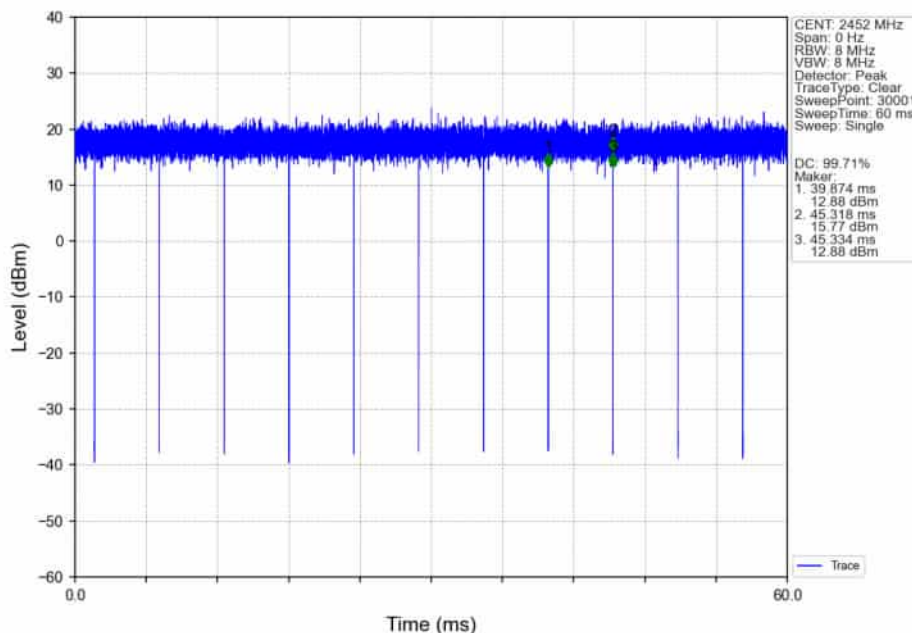


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802.11ax(HE40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV

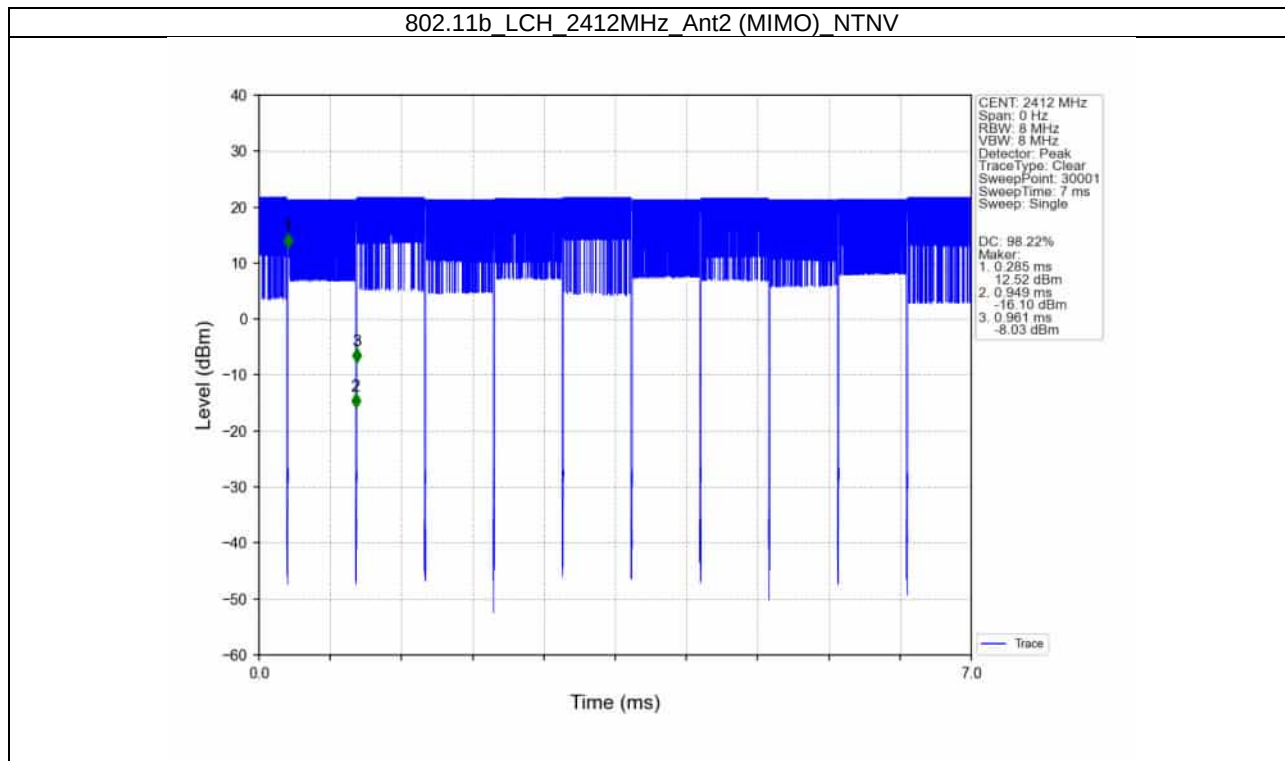


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1.2.2 Ant2

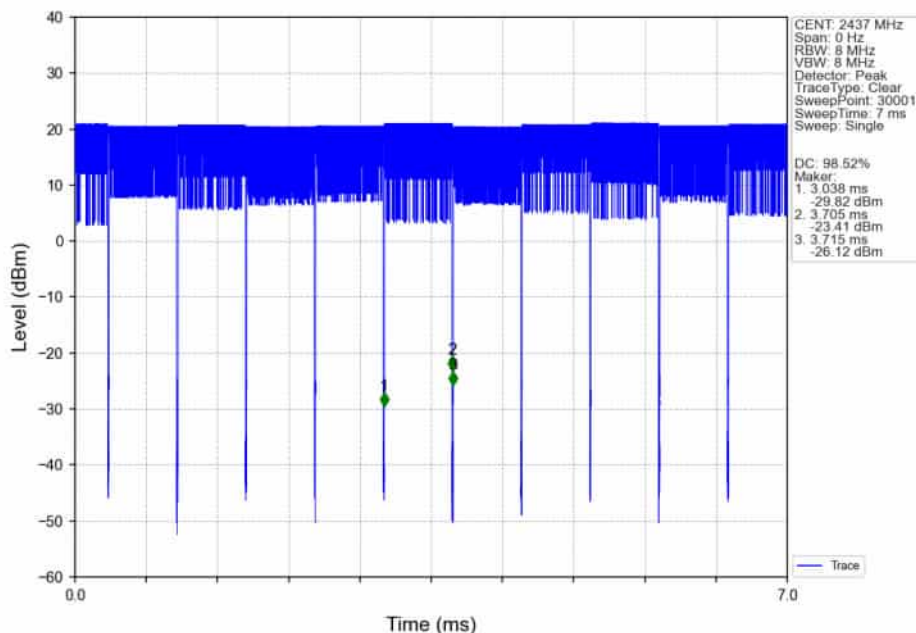


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802.11b_MCH_2437MHz_Ant2 (MIMO)_NTNV

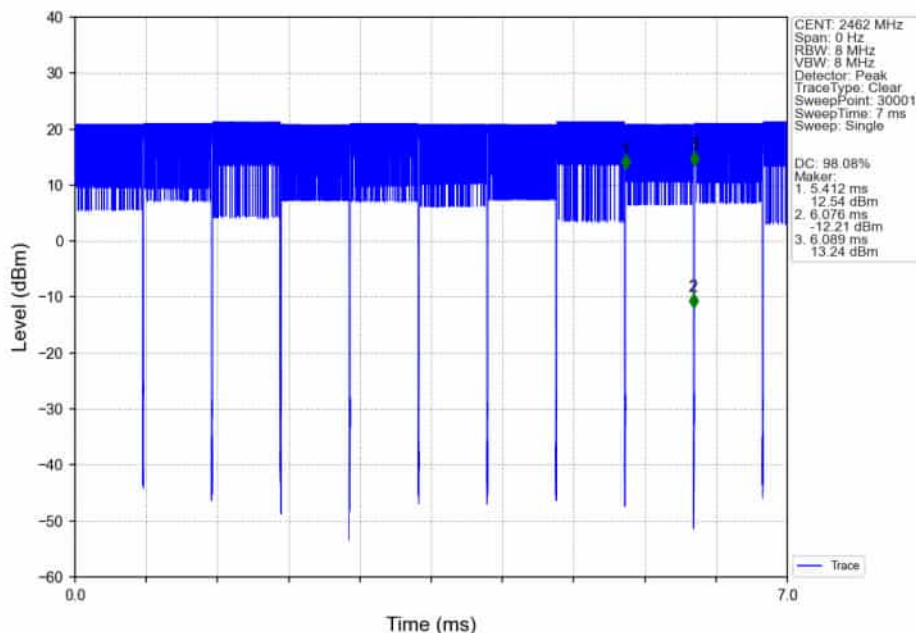


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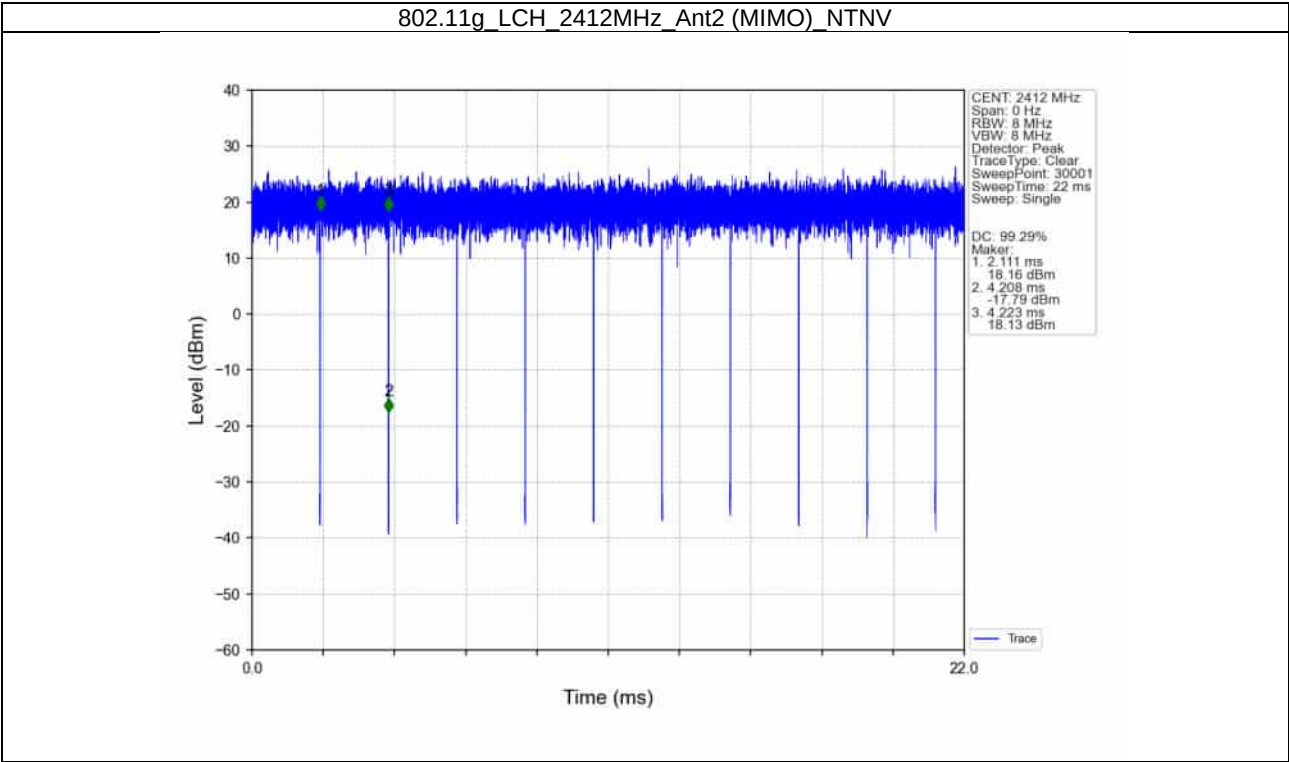
802.11b_HCH_2462MHz_Ant2 (MIMO)_NTNV



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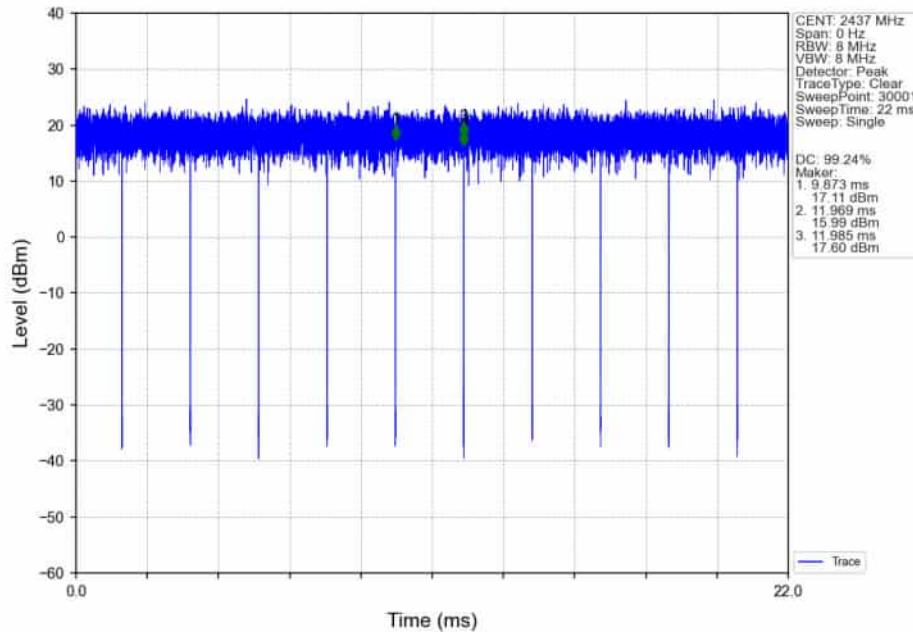


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802.11g_MCH_2437MHz_Ant2 (MIMO)_NTNV

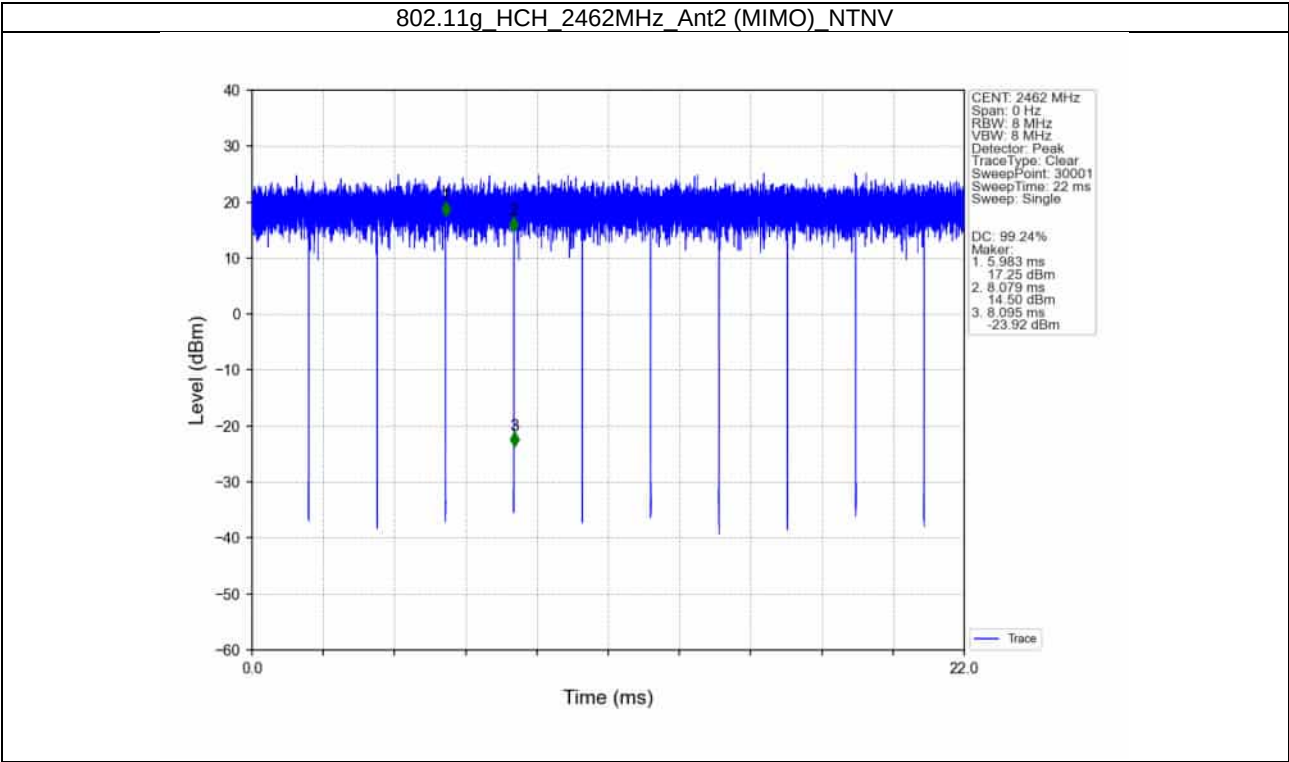


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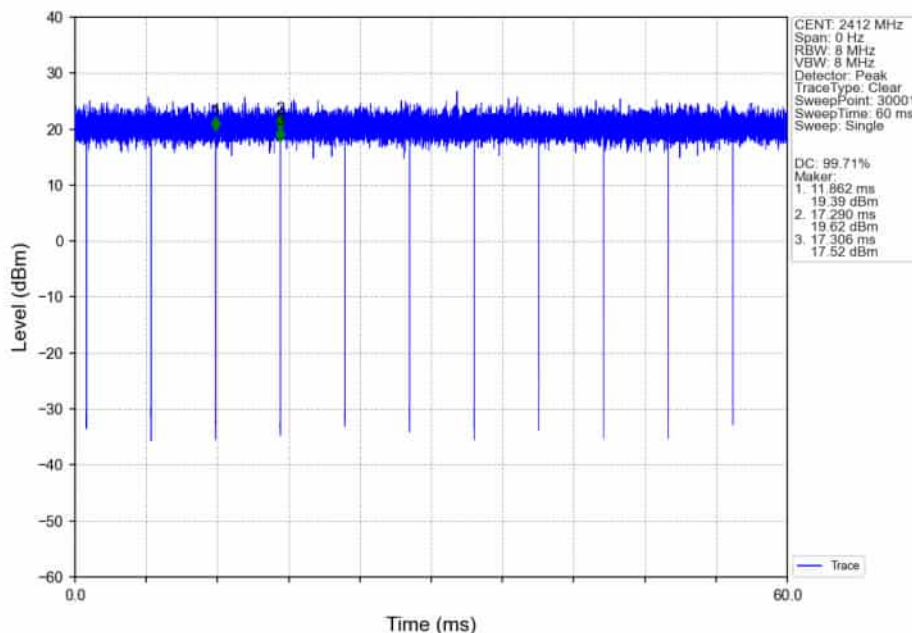


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802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV

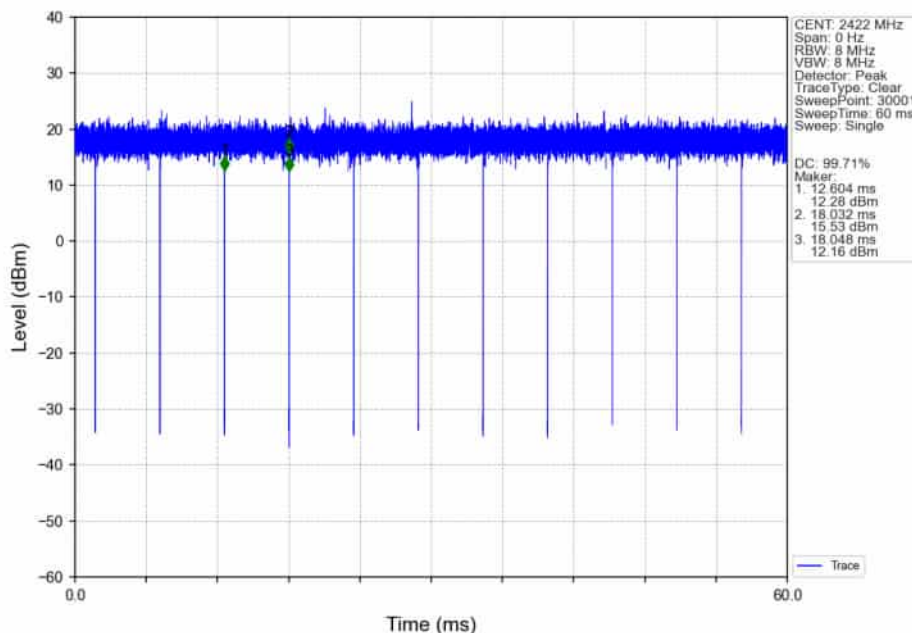


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802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV

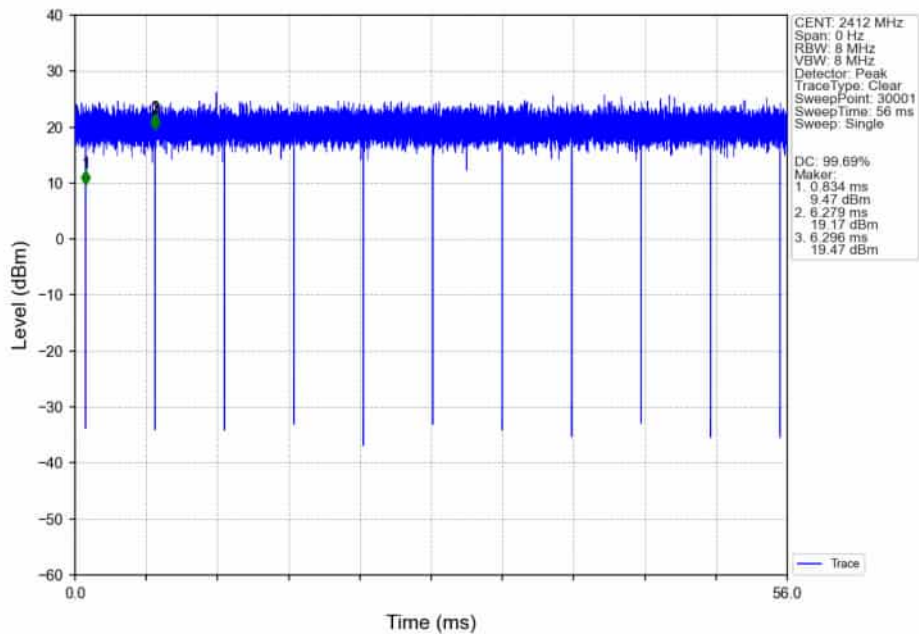


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802.11ax(HE20)_LCH_2412MHz_RU242_Left_Ant2 (MIMO)_NTNV



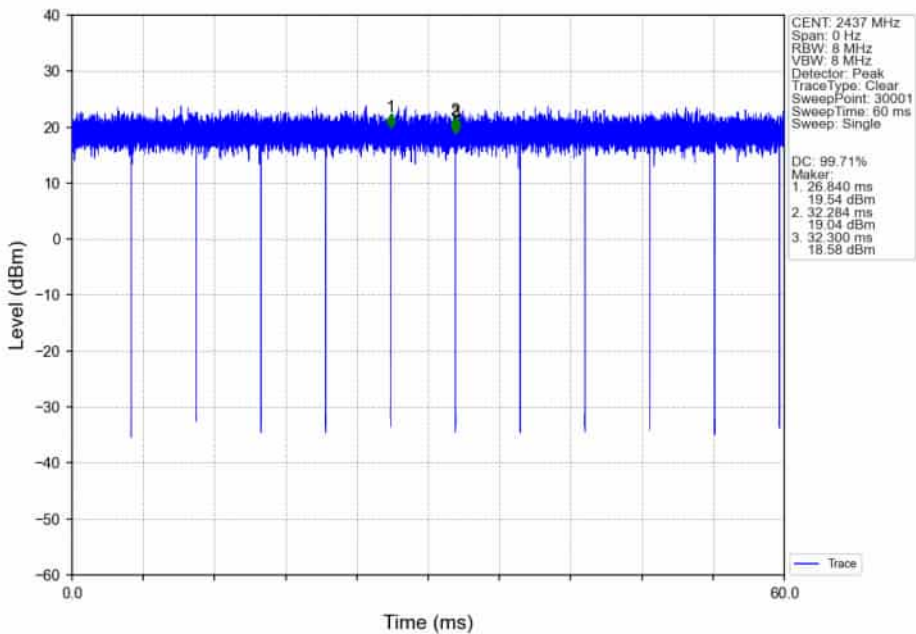
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802.11ax(HE20)_MCH_2437MHz_RU242_Left_Ant2 (MIMO)_NTNV



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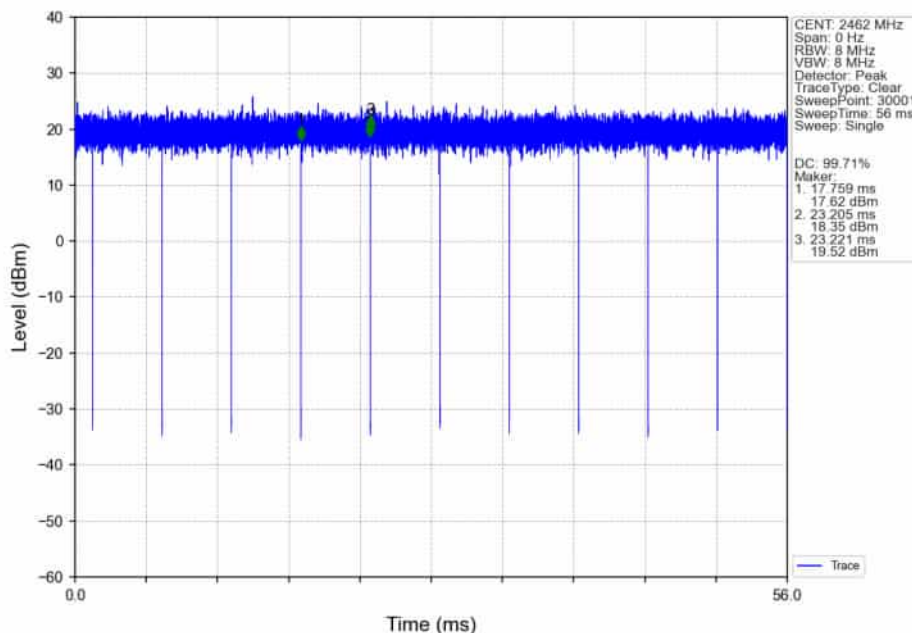
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802.11ax(HE20)_HCH_2462MHz_RU242_Left_Ant2 (MIMO)_NTNV

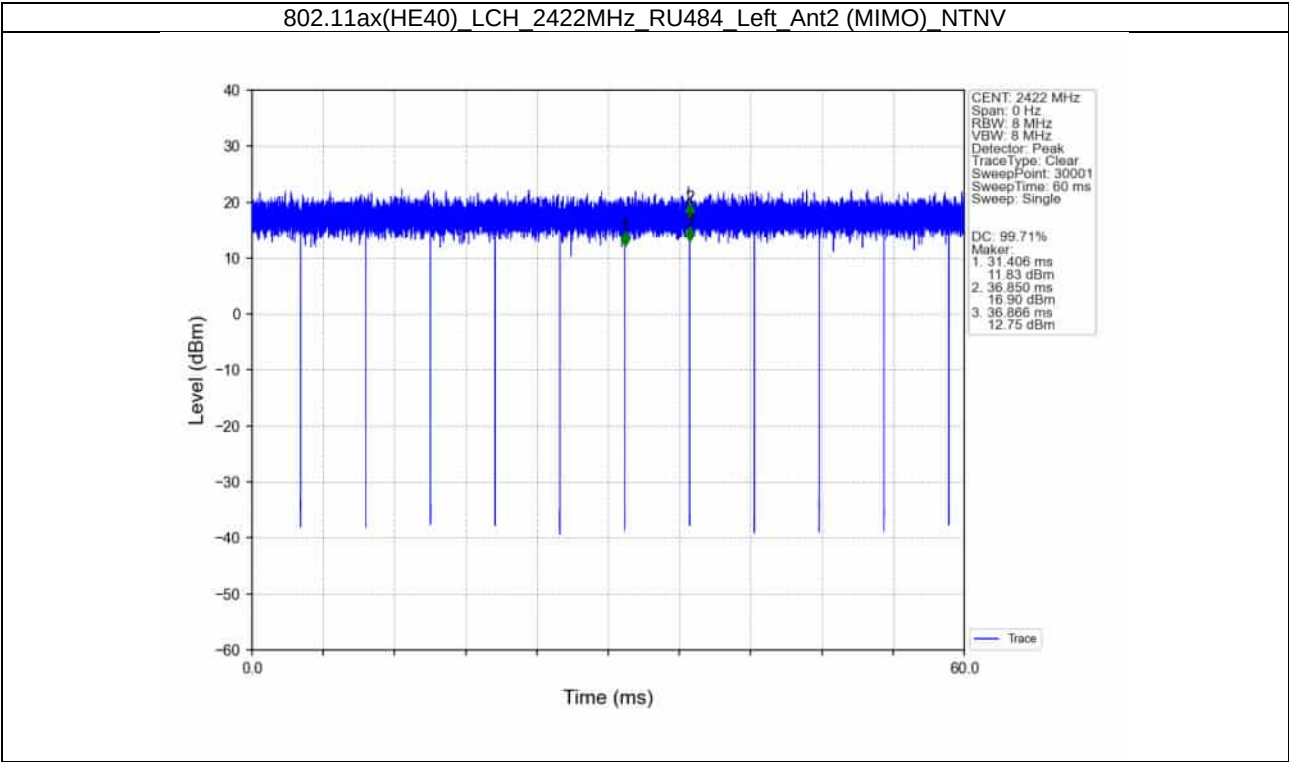


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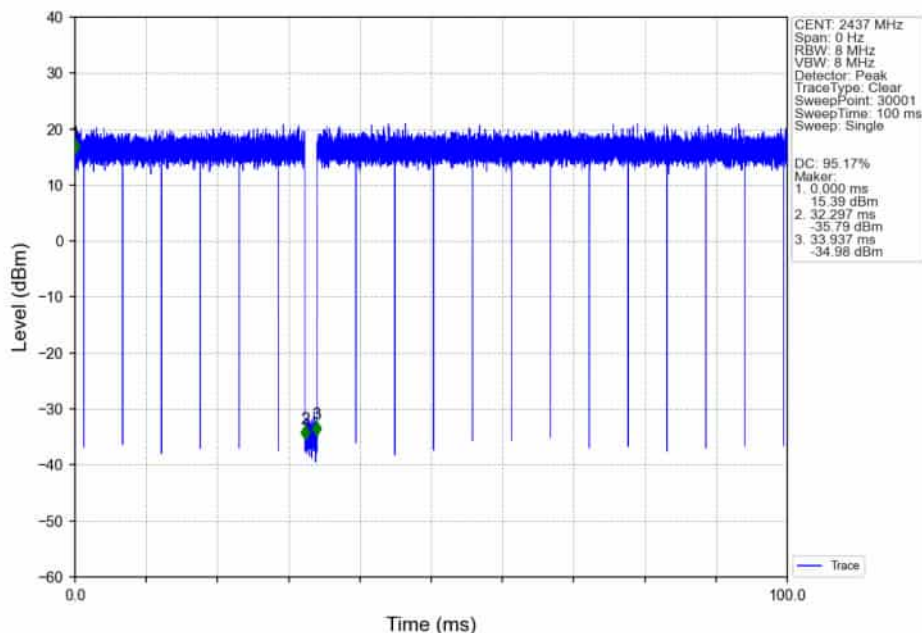


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802.11ax(HE40)_MCH_2437MHz_RU484_Left_Ant2 (MIMO)_NTNV

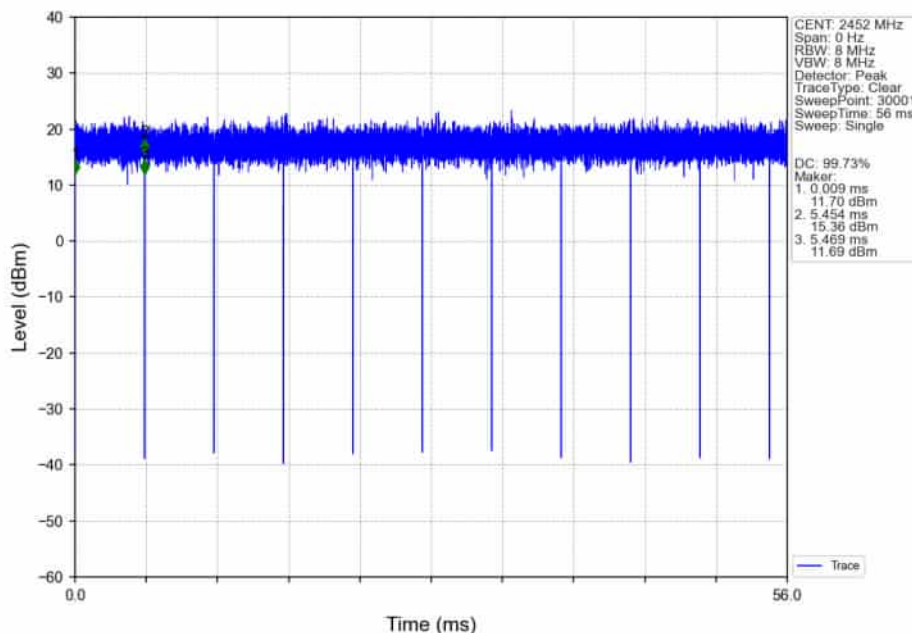


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802.11ax(HE40)_HCH_2452MHz_RU484_Left_Ant2 (MIMO)_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	MIMO	2412	/	/	1	13.138	/	Pass
					2	13.130	/	Pass
		2437	/	/	1	13.222	/	Pass
					2	13.386	/	Pass
		2462	/	/	1	13.040	/	Pass
					2	13.052	/	Pass
802.11g	MIMO	2412	/	/	1	16.844	/	Pass
					2	16.686	/	Pass
		2437	/	/	1	16.884	/	Pass
					2	16.786	/	Pass
		2462	/	/	1	16.783	/	Pass
					2	16.672	/	Pass
802.11ax (HE20)	MIMO	2412	RU242	Left	1	19.074	/	Pass
					2	19.068	/	Pass
		2437	RU242	Left	1	19.116	/	Pass
					2	19.164	/	Pass
		2462	RU242	Left	1	19.060	/	Pass
					2	19.032	/	Pass
802.11ax (HE40)	MIMO	2422	RU484	Left	1	37.916	/	Pass
					2	37.766	/	Pass
		2437	RU484	Left	1	38.113	/	Pass
					2	38.116	/	Pass
		2452	RU484	Left	1	37.947	/	Pass
					2	37.946	/	Pass

Remark:

For 802.11n HT20/ax HE20, 802.11n HT40/ax HE40 mode, the whole testing have assessed only 802.11ax HE20/40 by referring to their higher output power.

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2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	MIMO	2412	/	/	1	8.239	≥ 0.5	Pass
					2	8.207	≥ 0.5	Pass
		2437	/	/	1	8.258	≥ 0.5	Pass
					2	8.658	≥ 0.5	Pass
		2462	/	/	1	8.218	≥ 0.5	Pass
					2	8.204	≥ 0.5	Pass
802.11g	MIMO	2412	/	/	1	16.203	≥ 0.5	Pass
					2	16.091	≥ 0.5	Pass
		2437	/	/	1	16.373	≥ 0.5	Pass
					2	16.478	≥ 0.5	Pass
		2462	/	/	1	16.064	≥ 0.5	Pass
					2	15.988	≥ 0.5	Pass
802.11ax (HE20)	MIMO	2412	RU242	Left	1	18.951	≥ 0.5	Pass
					2	18.967	≥ 0.5	Pass
		2437	RU242	Left	1	19.056	≥ 0.5	Pass
					2	19.062	≥ 0.5	Pass
		2462	RU242	Left	1	18.965	≥ 0.5	Pass
					2	19.005	≥ 0.5	Pass
802.11ax (HE40)	MIMO	2422	RU484	Left	1	37.112	≥ 0.5	Pass
					2	37.467	≥ 0.5	Pass
		2437	RU484	Left	1	38.085	≥ 0.5	Pass
					2	38.076	≥ 0.5	Pass
		2452	RU484	Left	1	37.650	≥ 0.5	Pass
					2	37.623	≥ 0.5	Pass

Remark:

For 802.11n HT20/ax HE20, 802.11n HT40/ax HE40 mode, the whole testing have assessed only 802.11ax HE20/40 by referring to their higher output power.

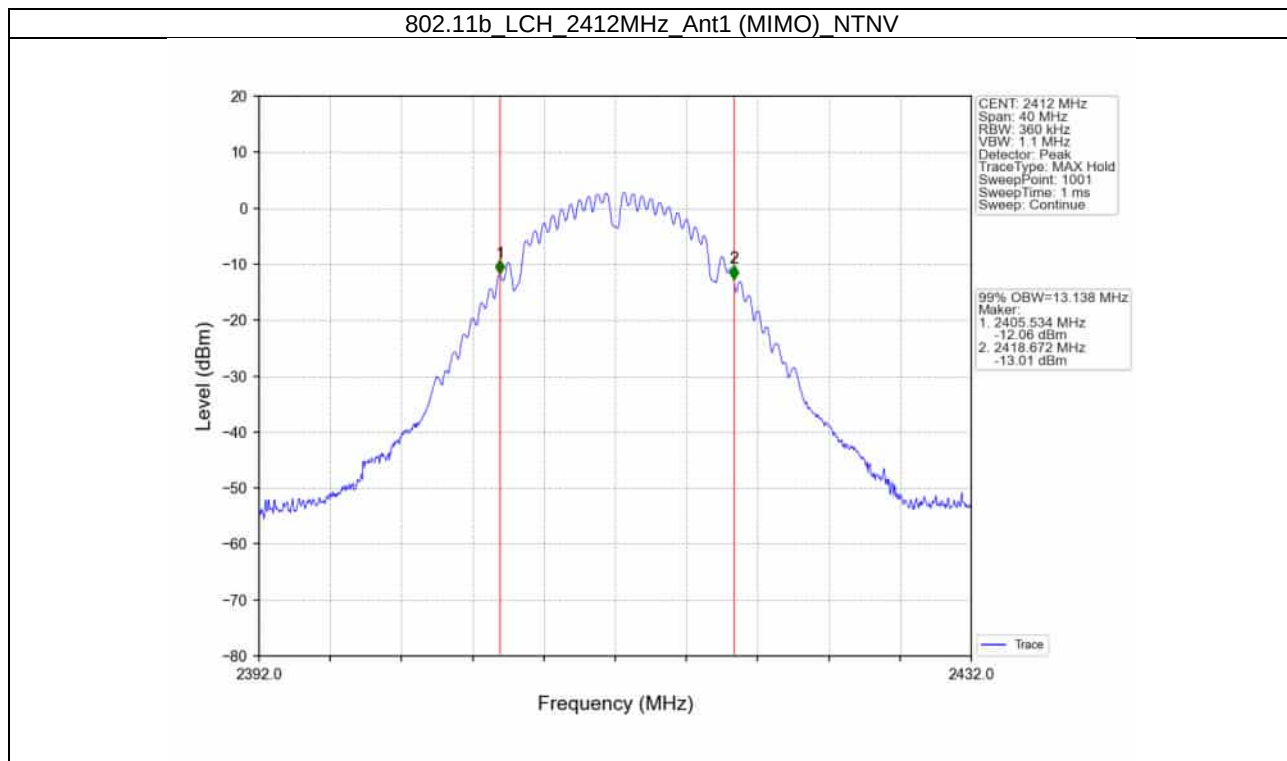
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2.2 Test Graph

2.2.1 OBW

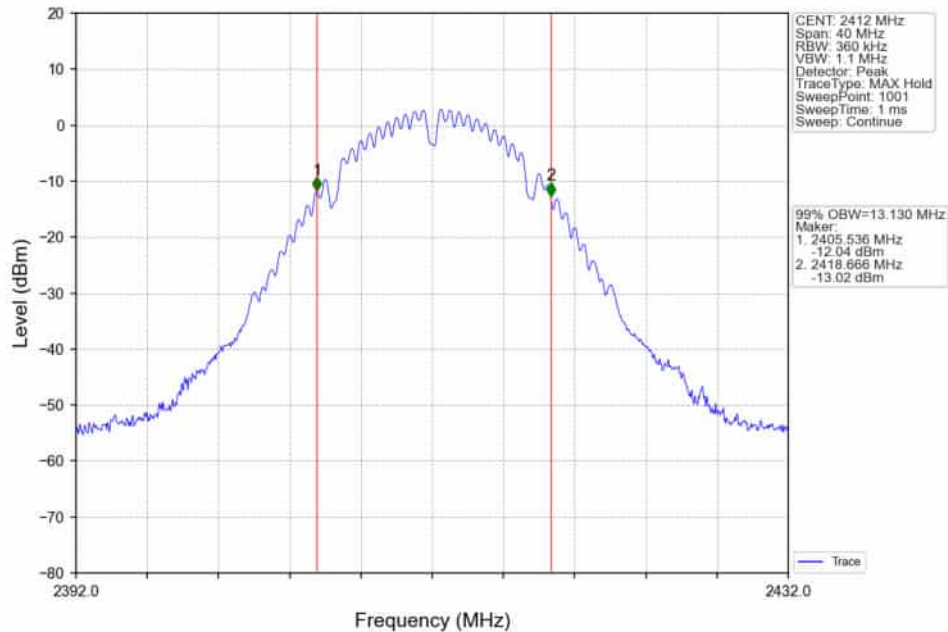


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802.11b_LCH_2412MHz_Ant2 (MIMO)_NTNV



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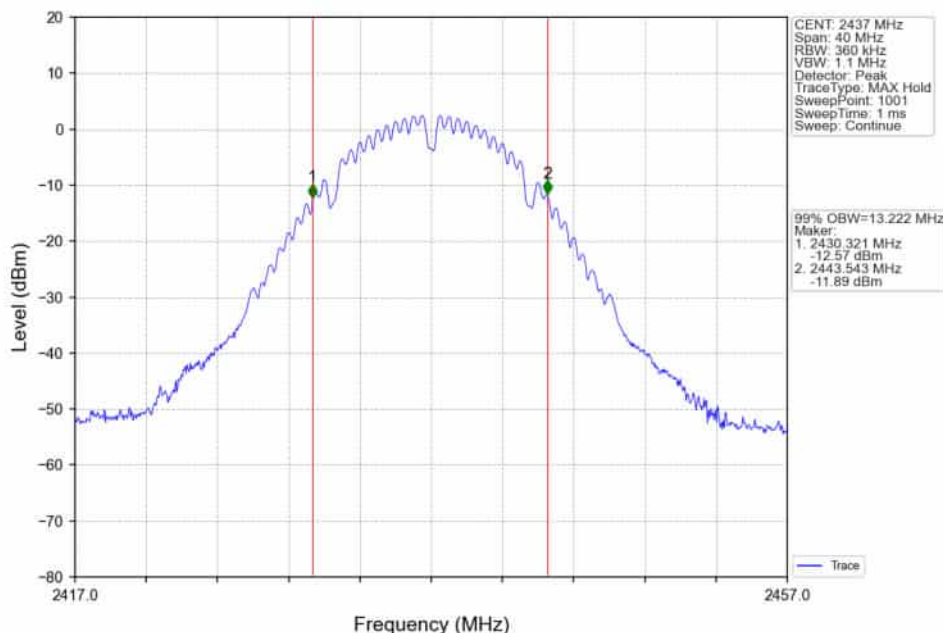
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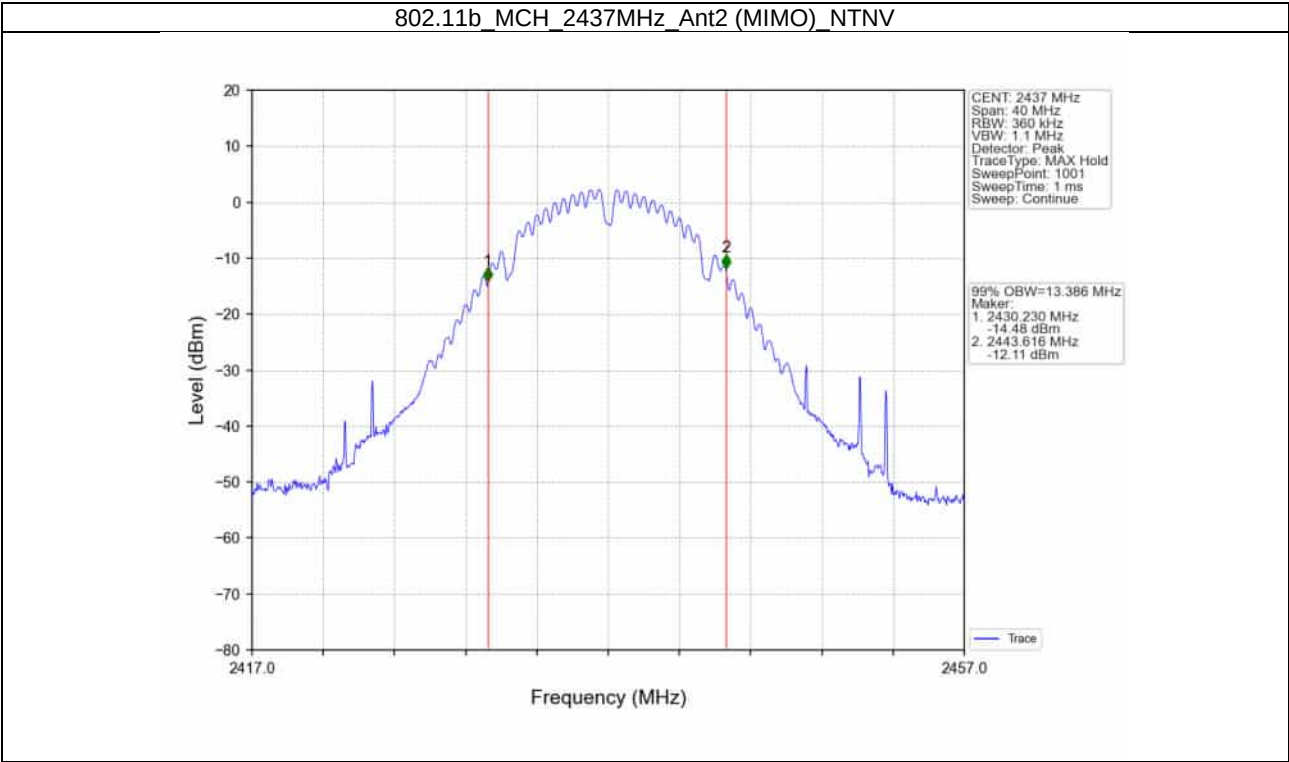
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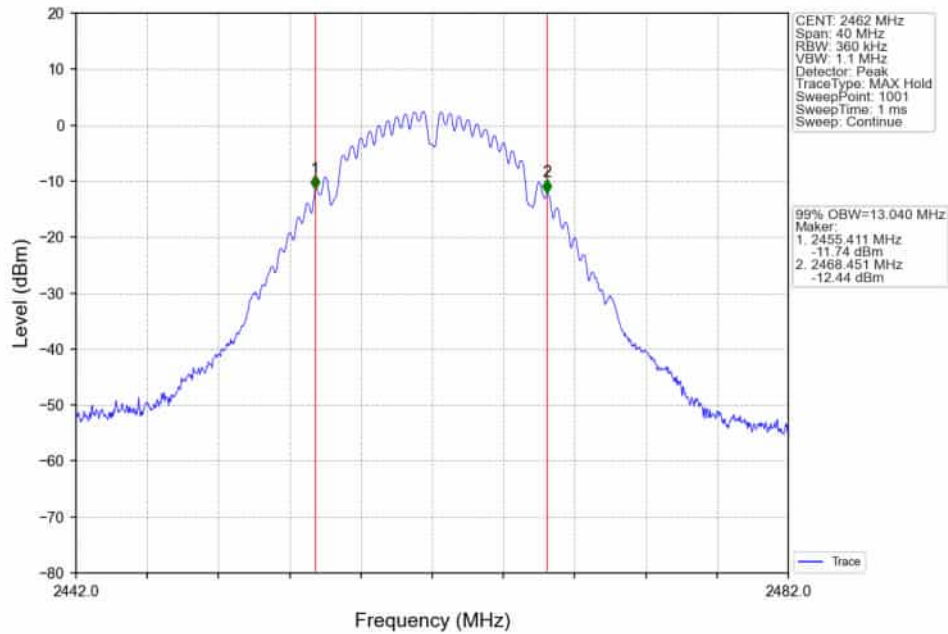


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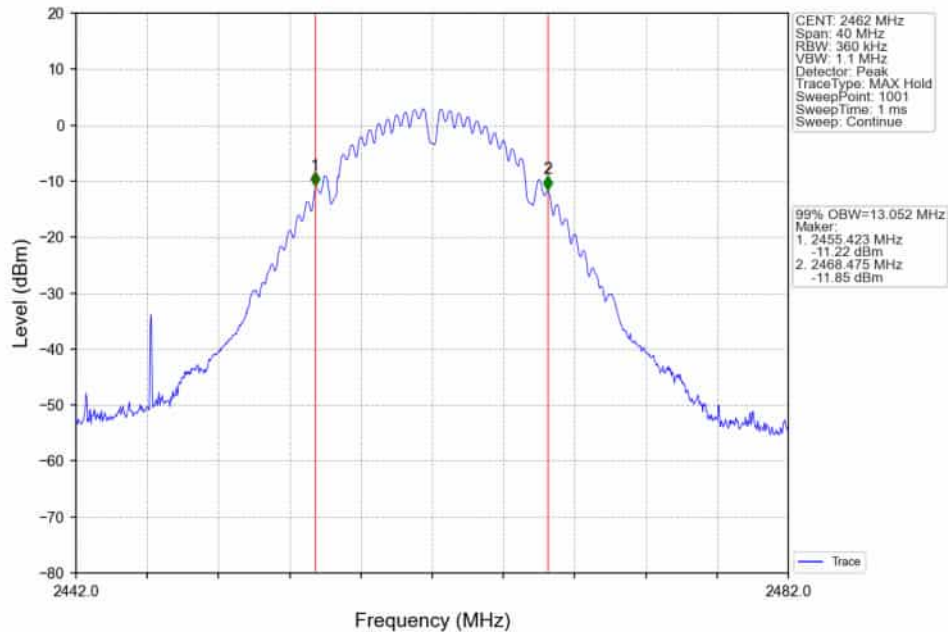


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802.11b_HCH_2462MHz_Ant2 (MIMO)_NTNV

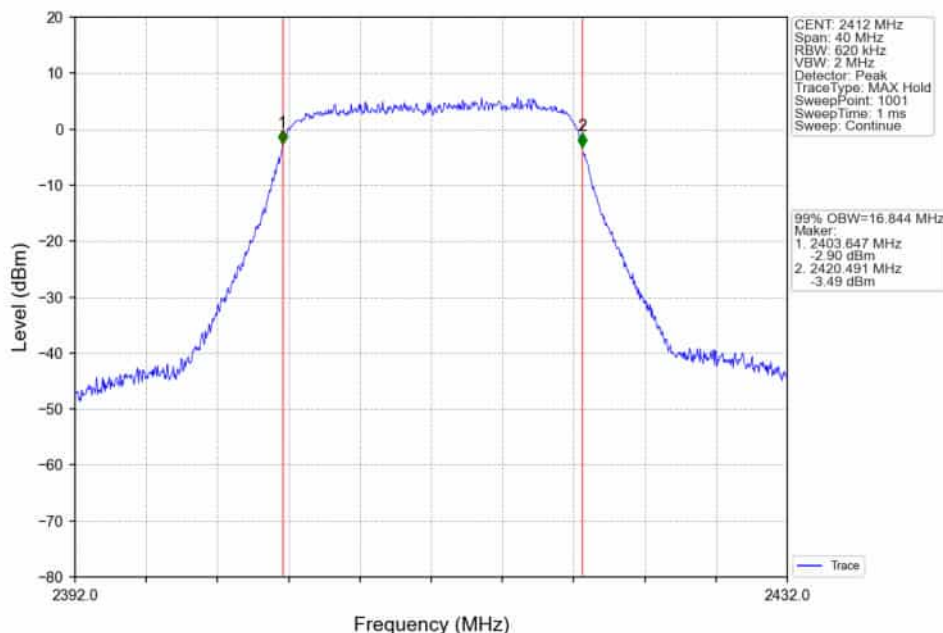


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802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV

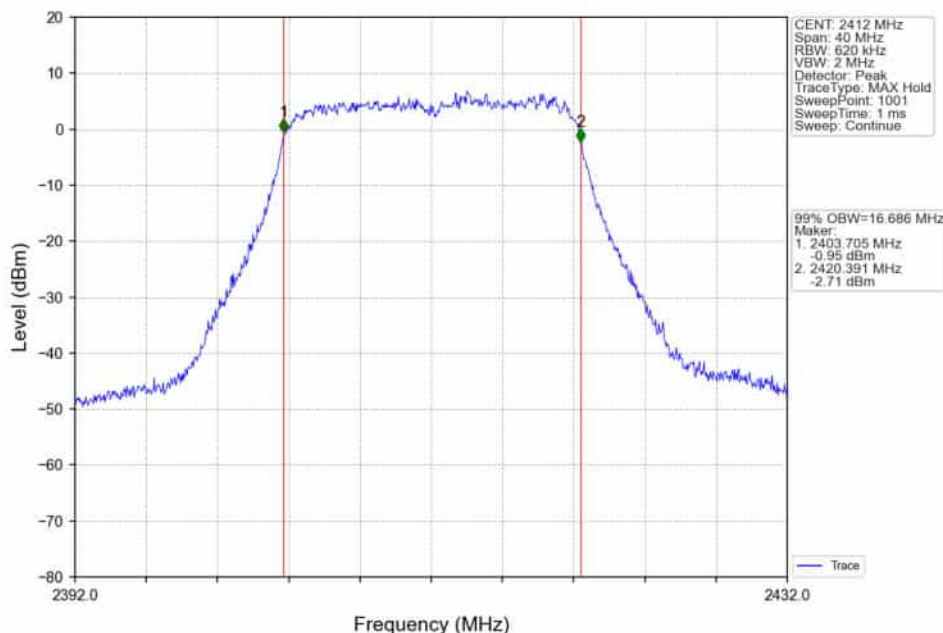


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802.11g_LCH_2412MHz_Ant2 (MIMO)_NTNV

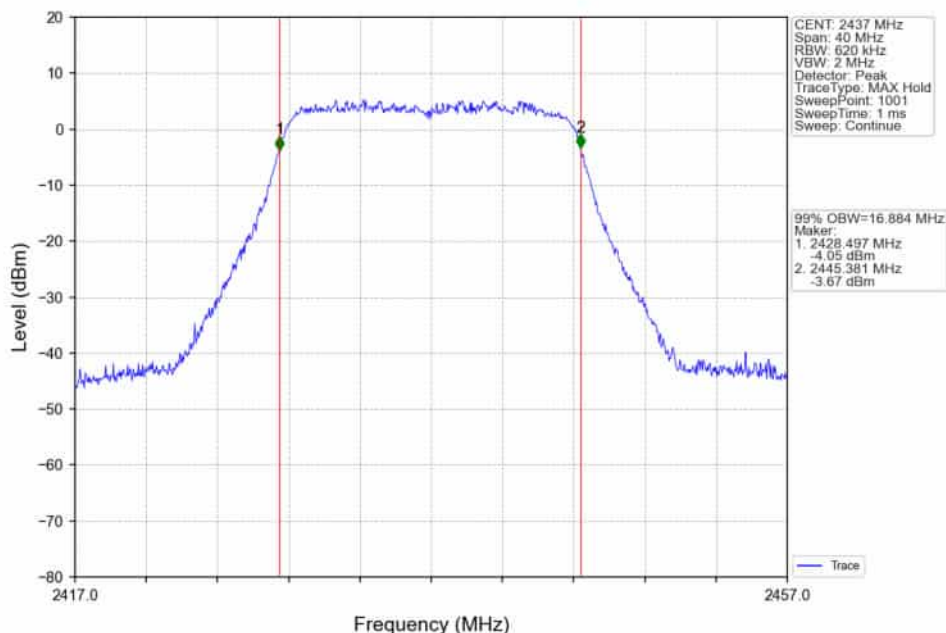


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802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV

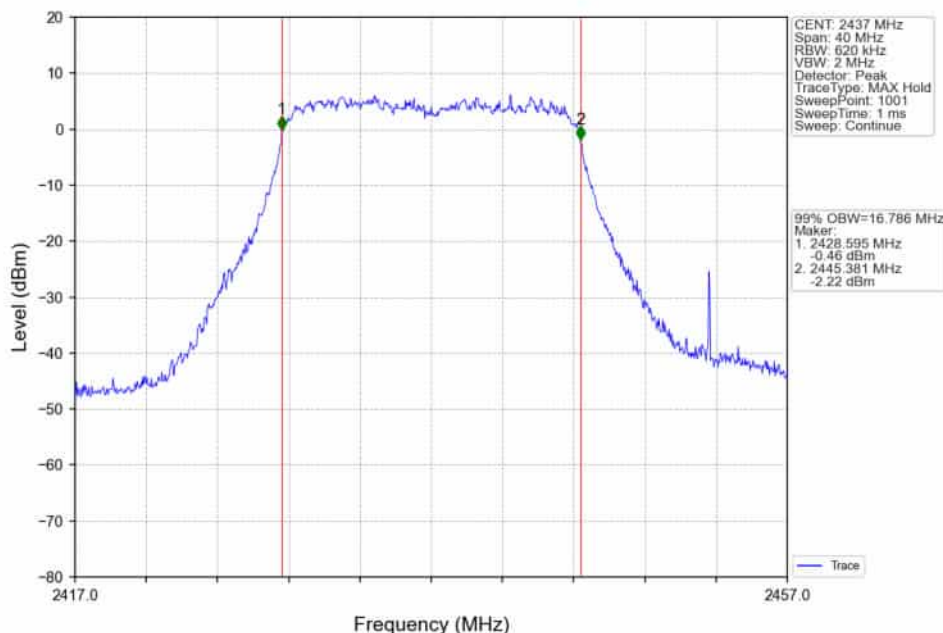


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802.11g_MCH_2437MHz_Ant2 (MIMO)_NTNV

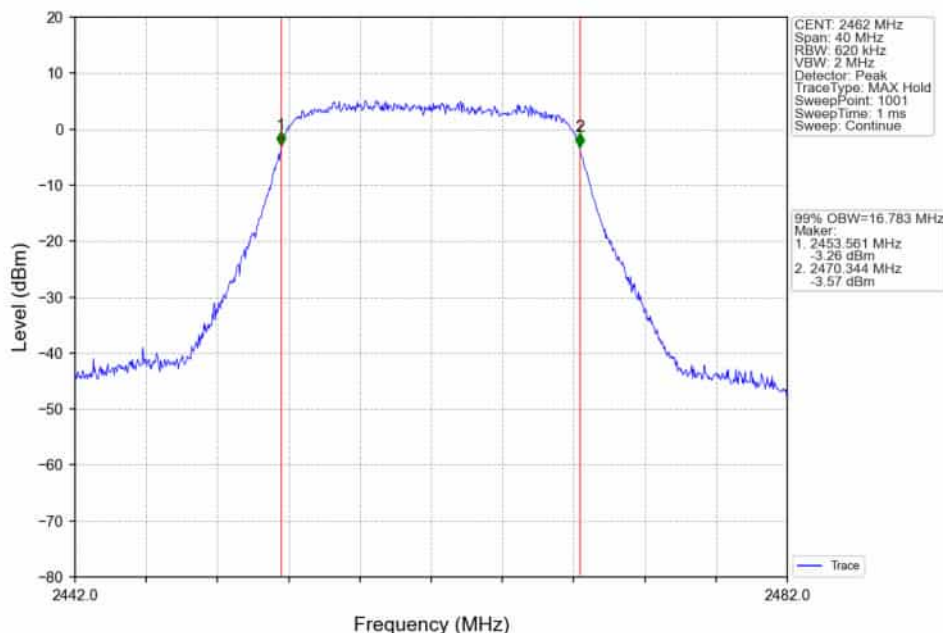


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802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV

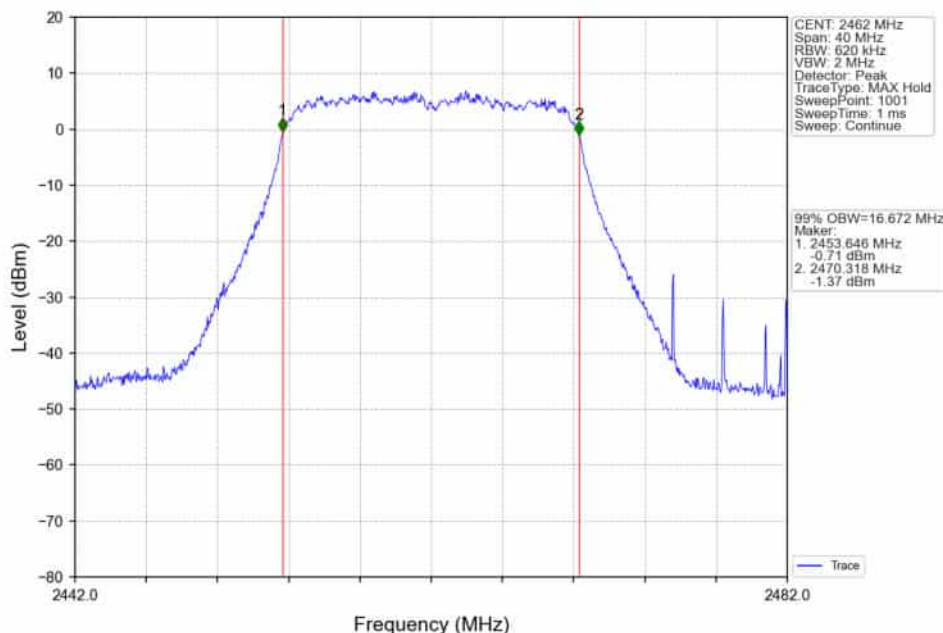


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802.11g_HCH_2462MHz_Ant2 (MIMO)_NTNV

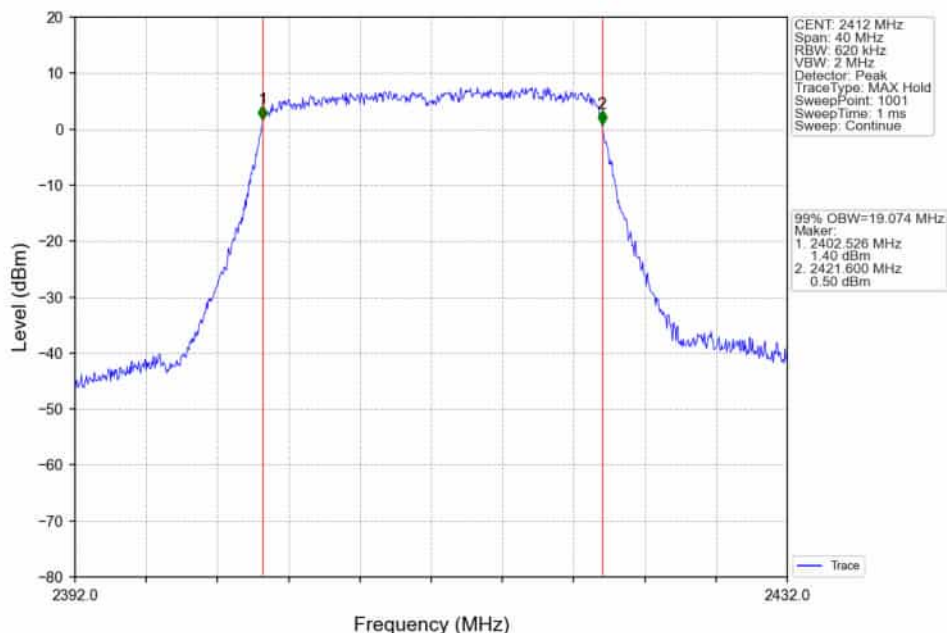


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802.11ax(HE20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV

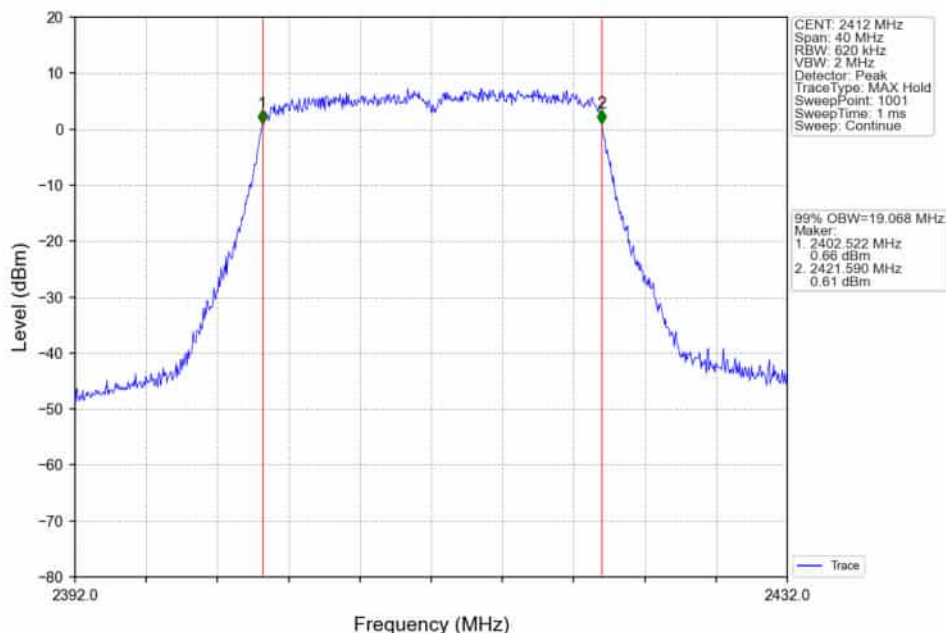


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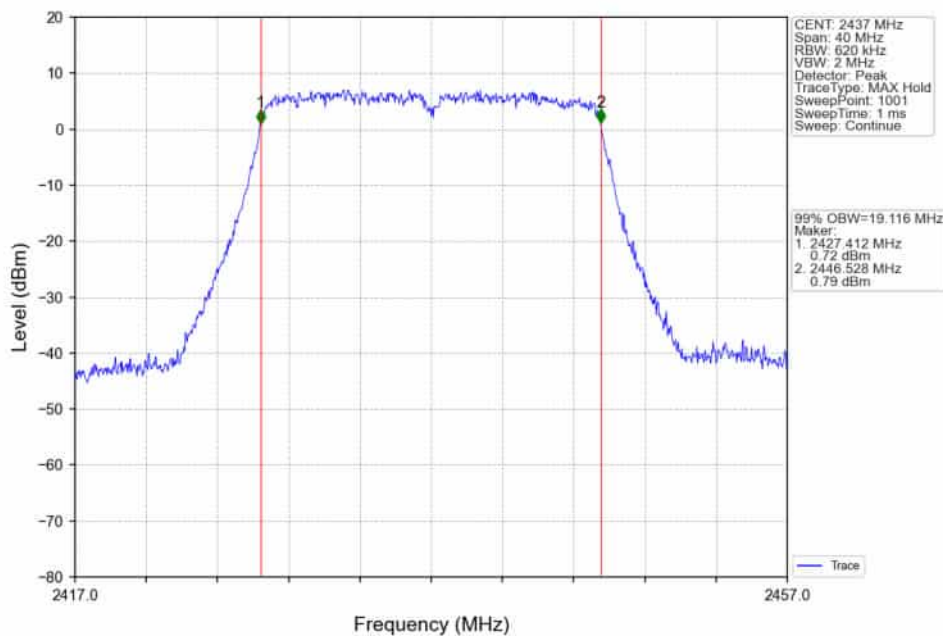


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802.11ax(HE20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV

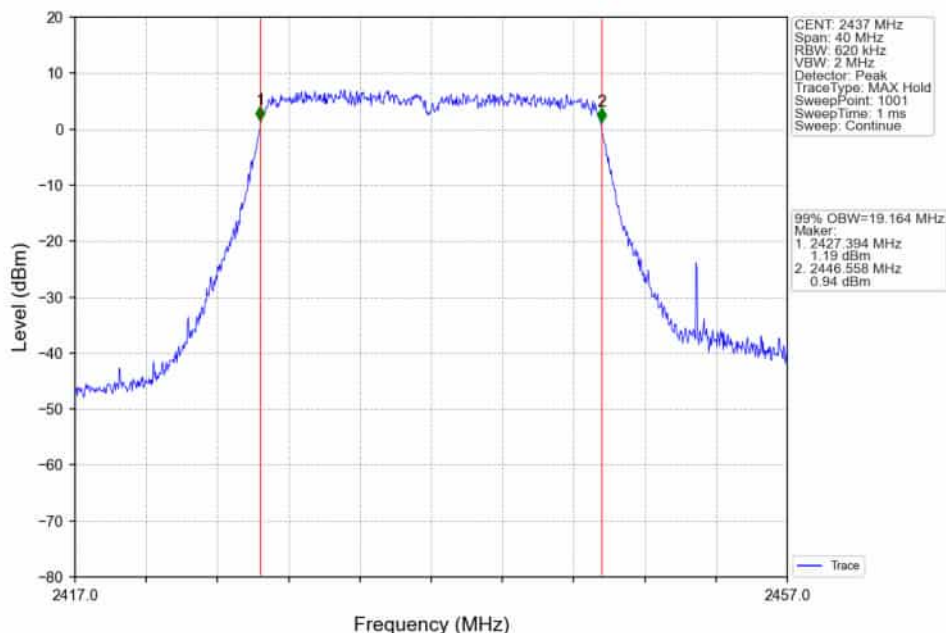


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802.11ax(HE20)_MCH_2437MHz_RU242_Left_Ant2 (MIMO)_NTNV

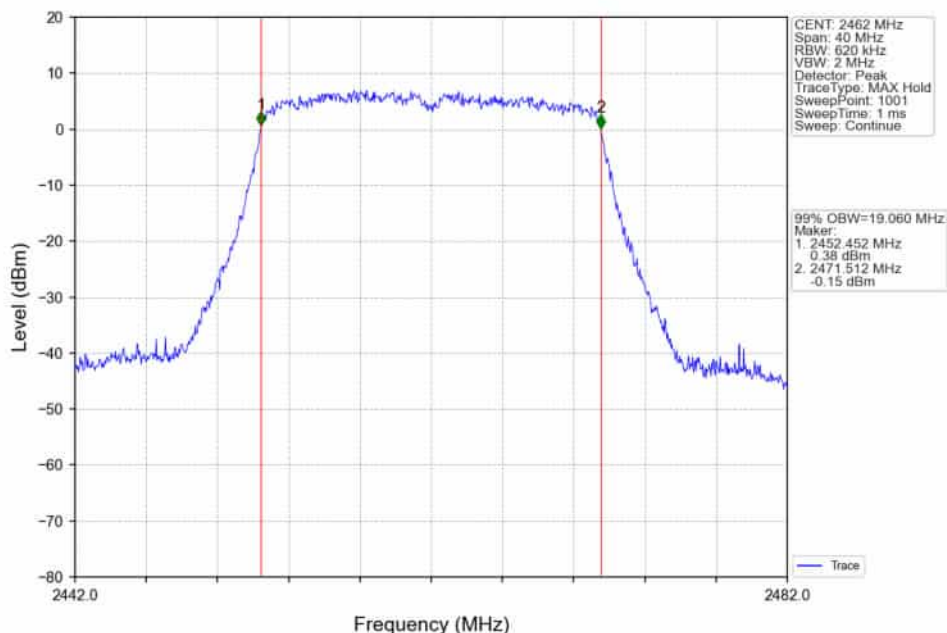


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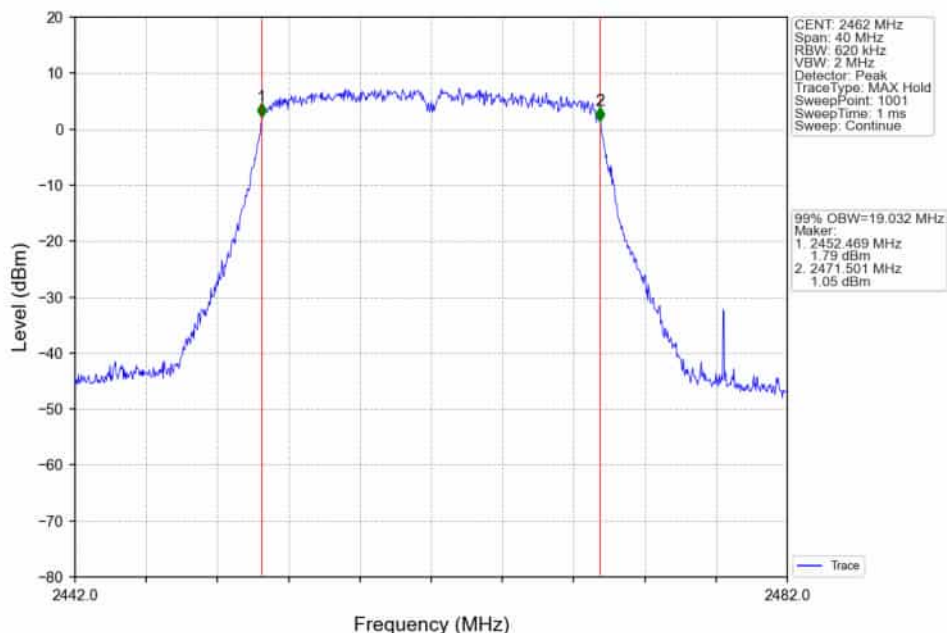
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802.11ax(HE20)_HCH_2462MHz_RU242_Left_Ant2 (MIMO)_NTNV

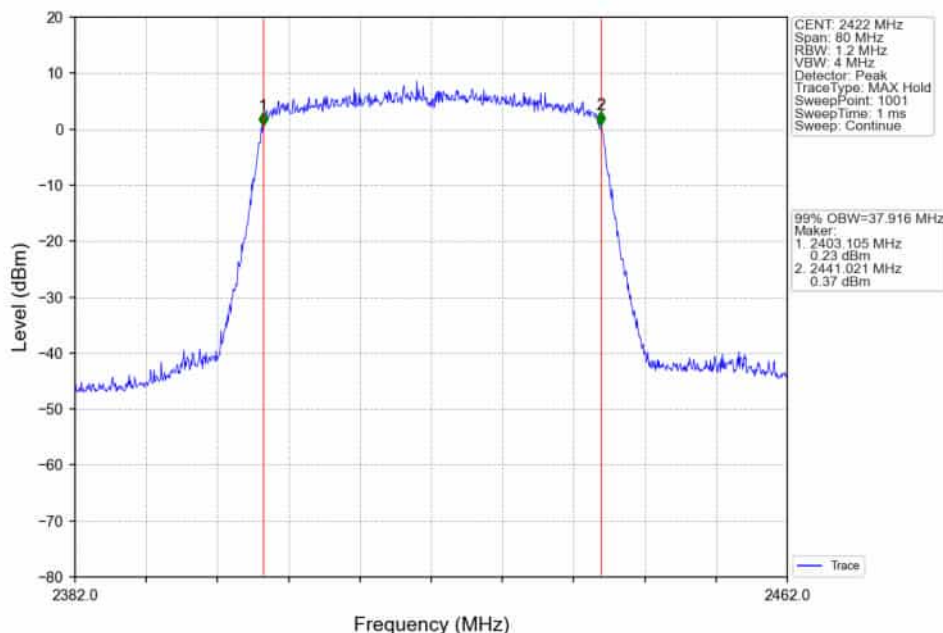


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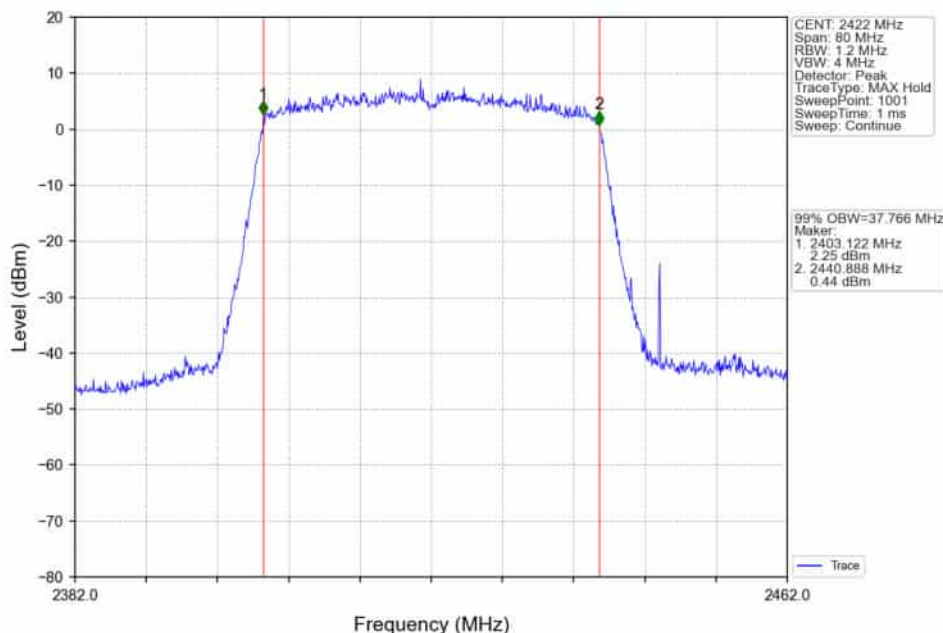


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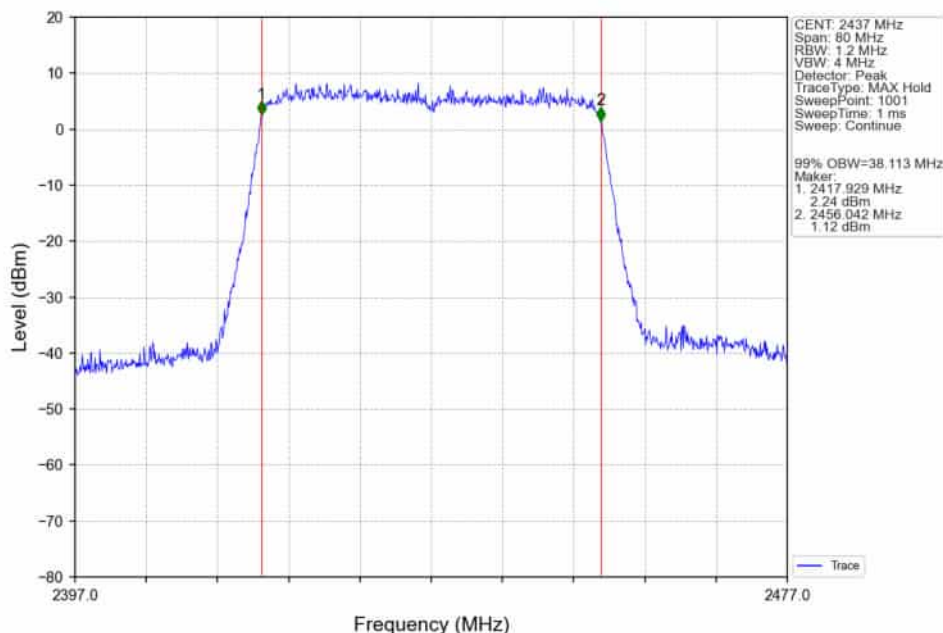


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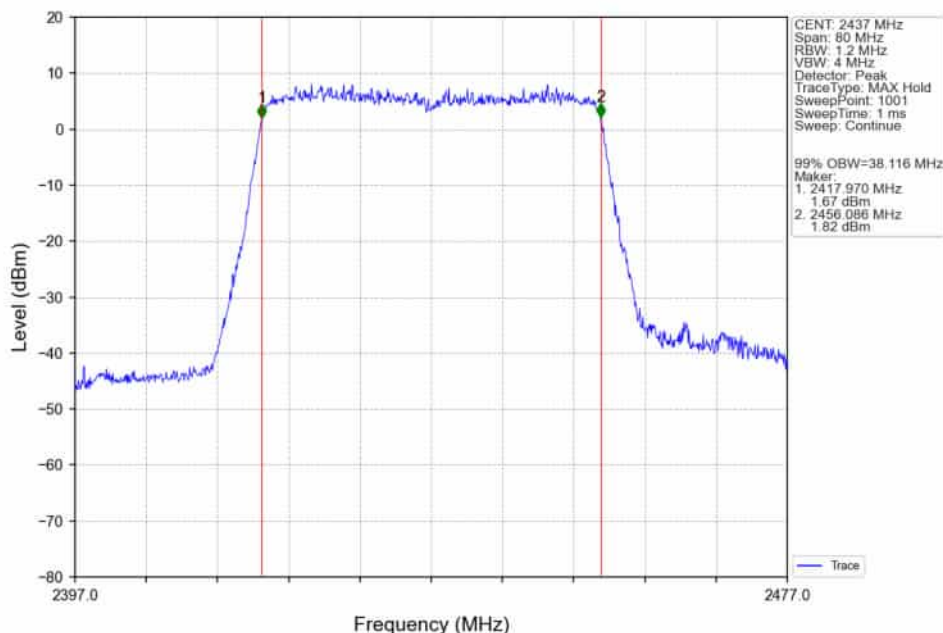


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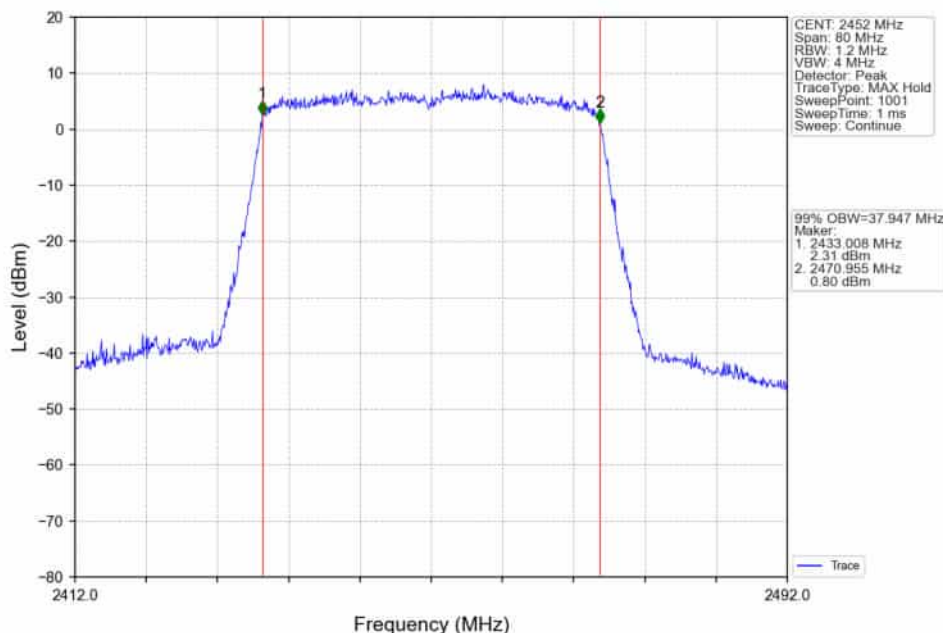


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802.11ax(HE40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV

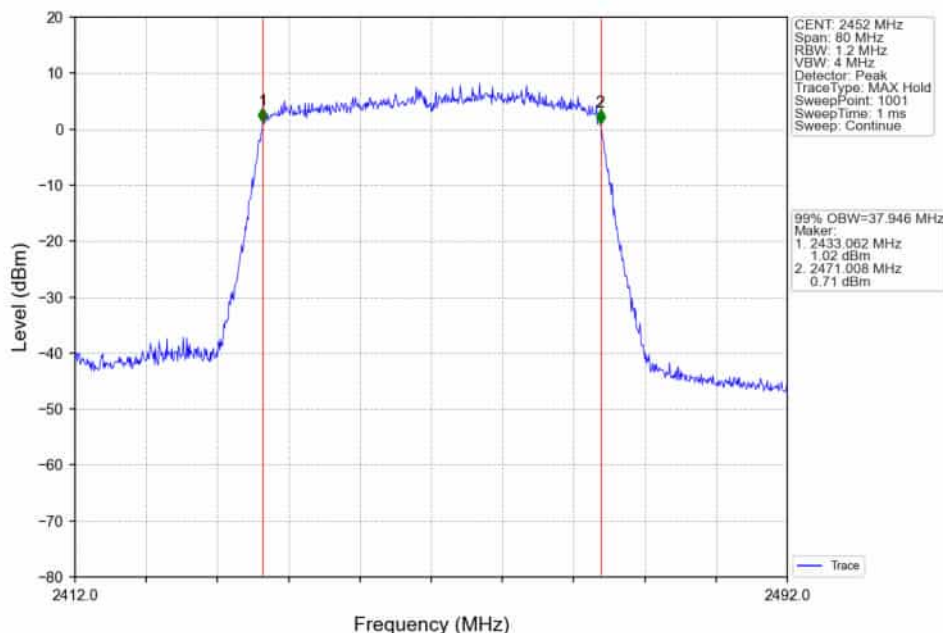


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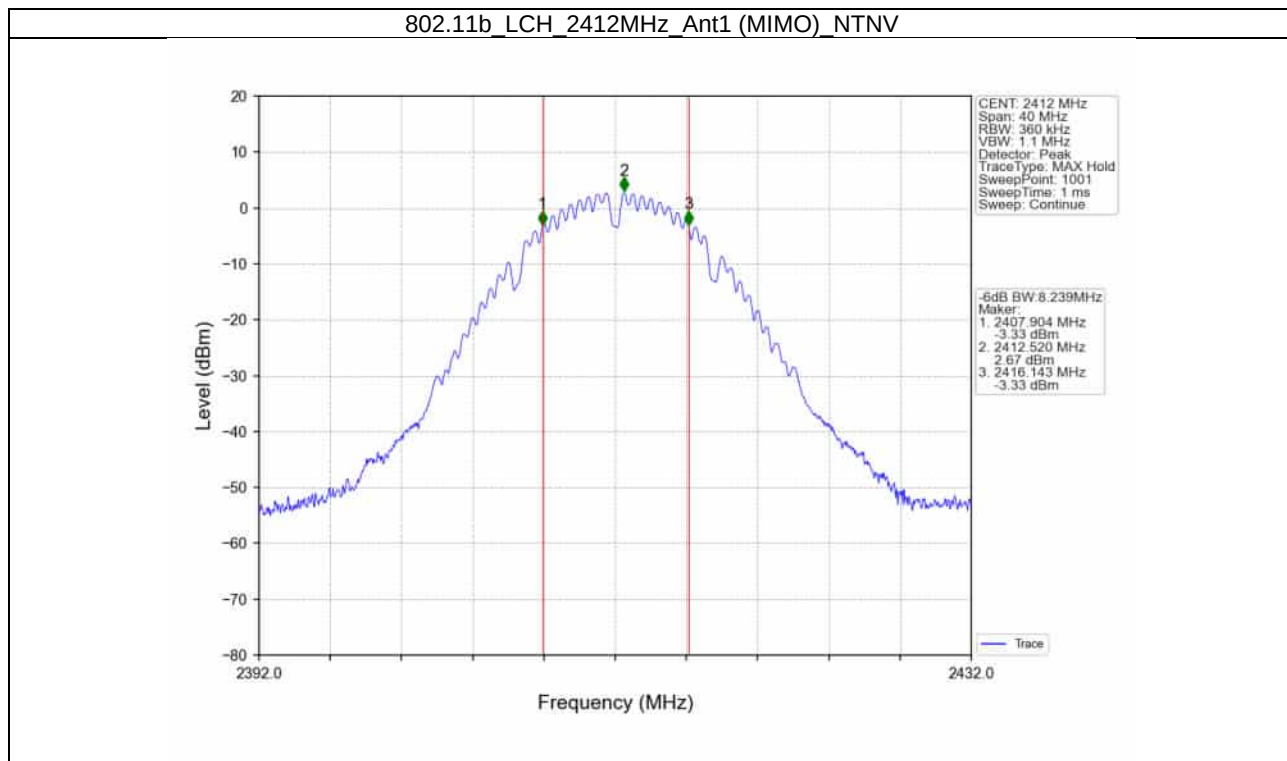


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2.2.2 6dB BW



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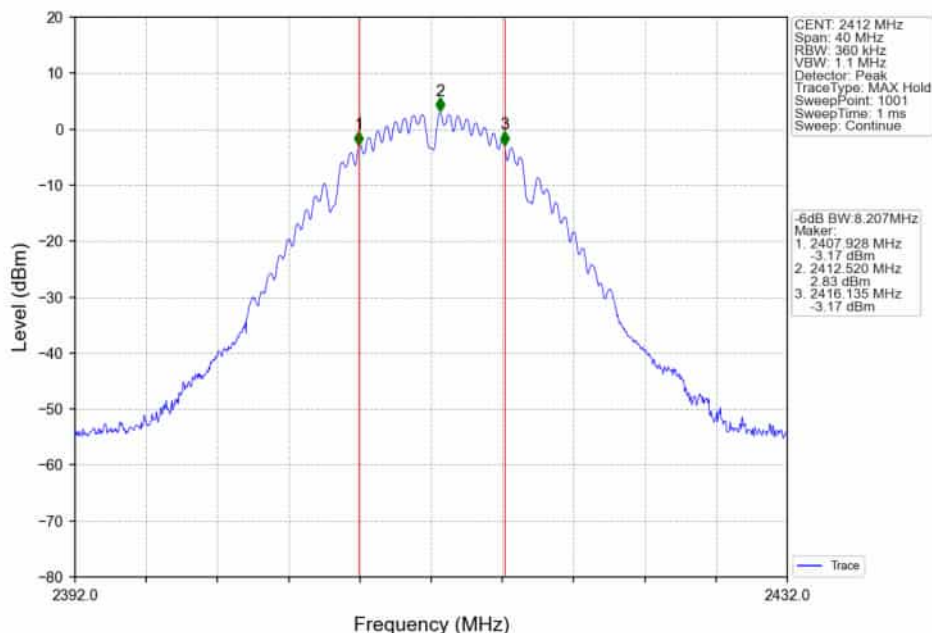
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802.11b_LCH_2412MHz_Ant2 (MIMO)_NTNV



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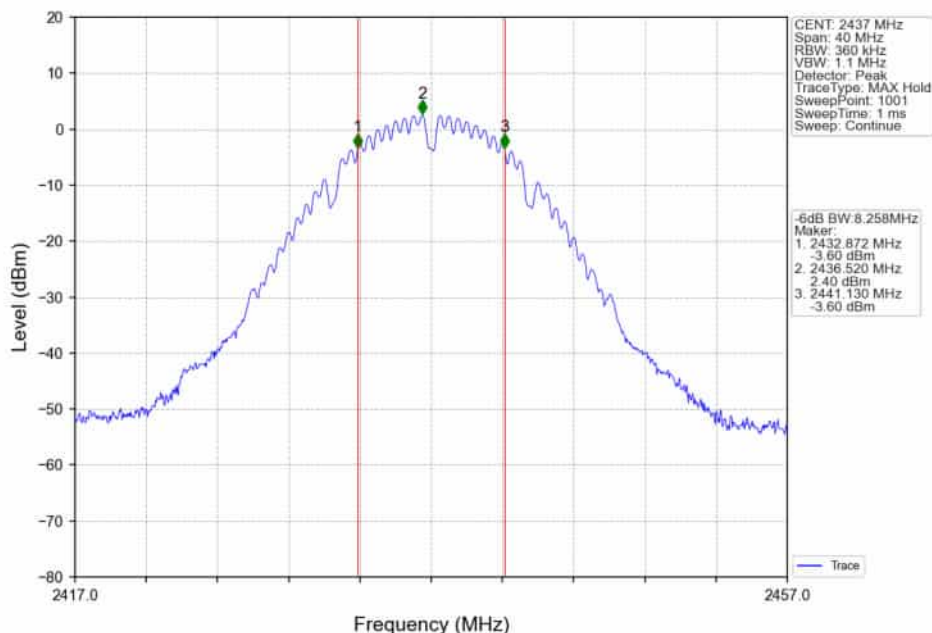
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802.11b_MCH_2437MHz_Ant1 (MIMO)_NTNV

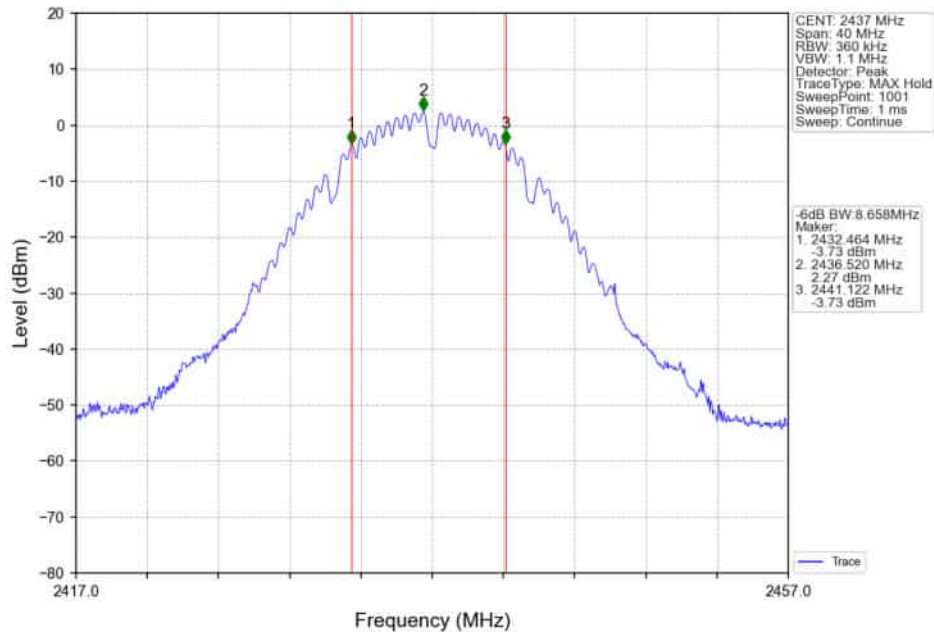


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802.11b_MCH_2437MHz_Ant2 (MIMO)_NTNV

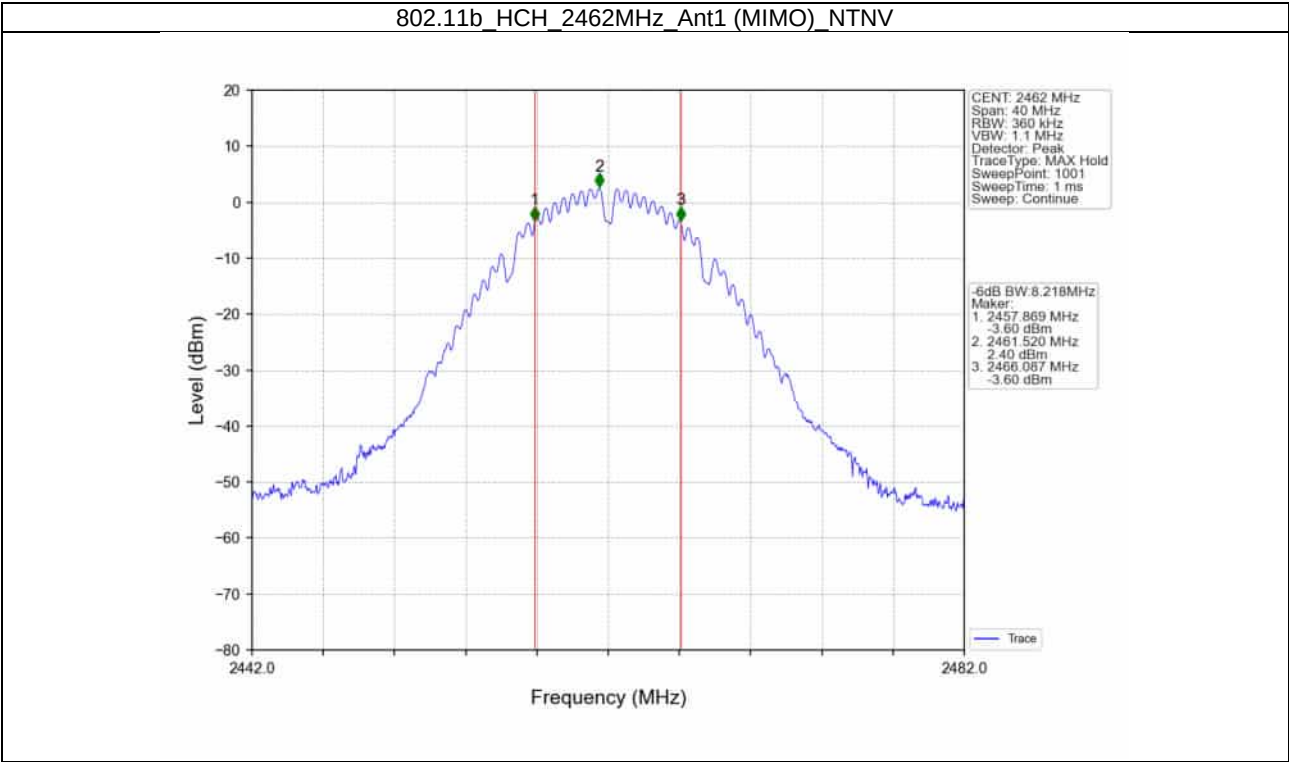


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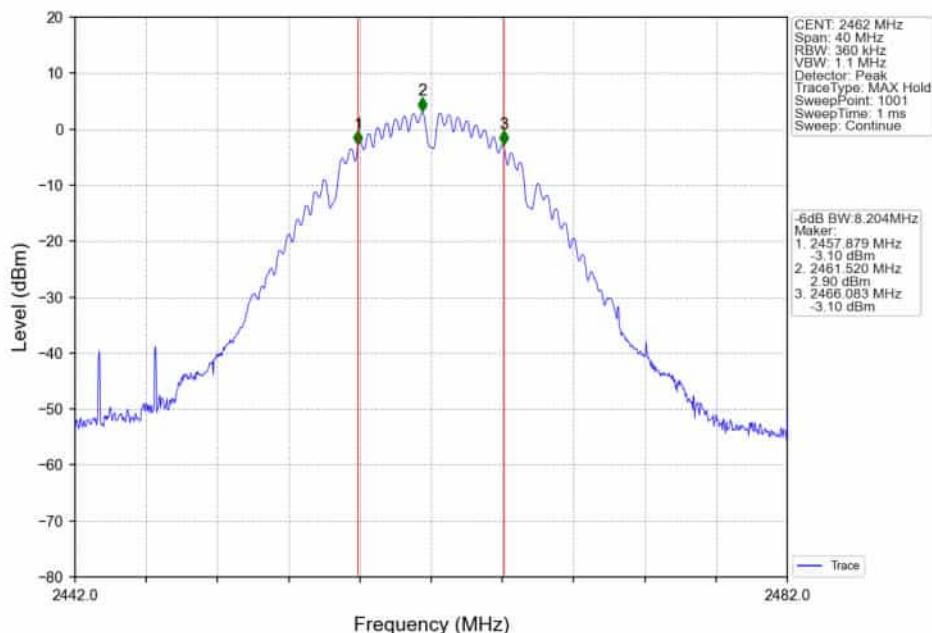


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802.11b_HCH_2462MHz_Ant2 (MIMO)_NTNV

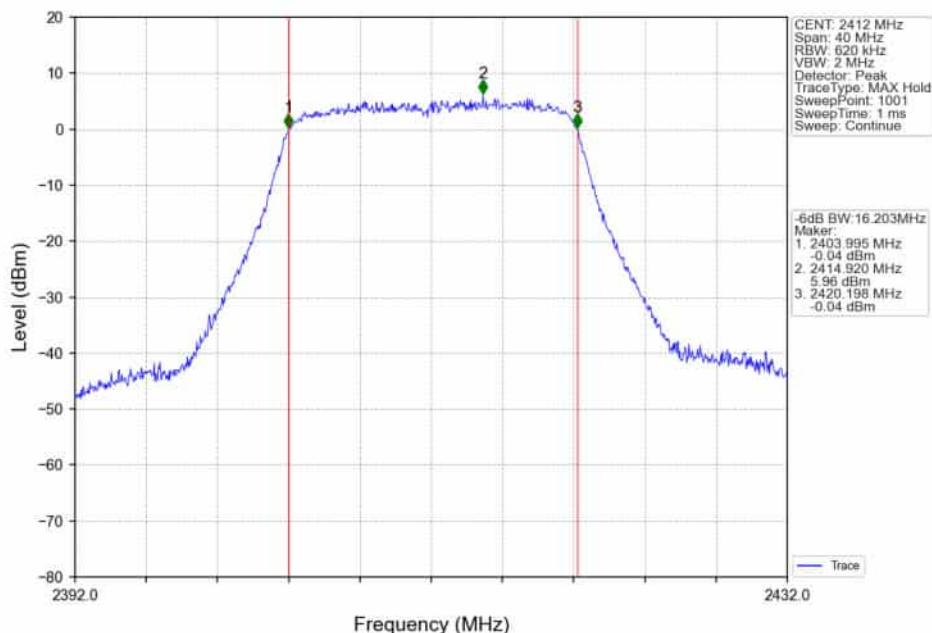


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802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV

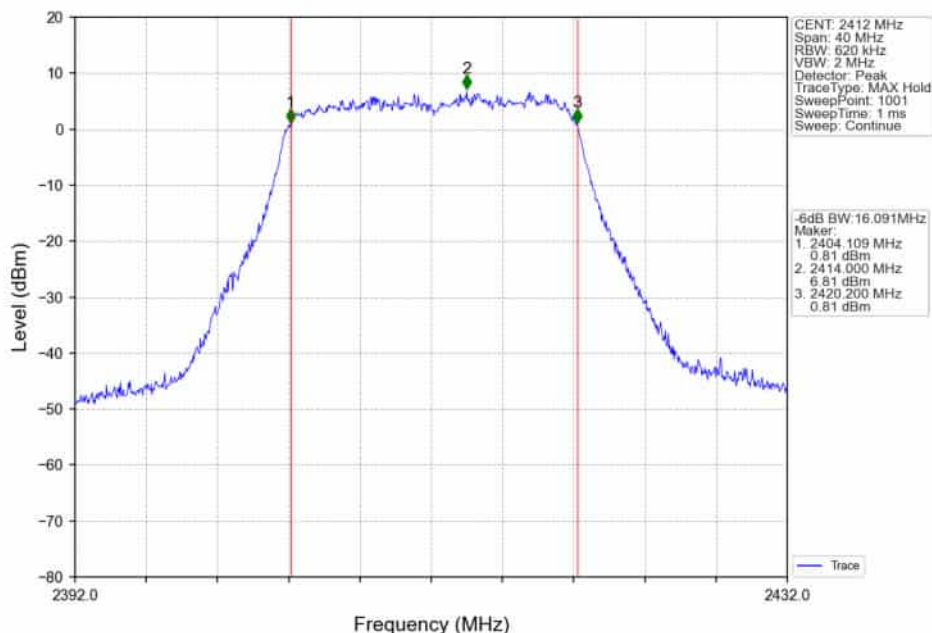


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802.11g_LCH_2412MHz_Ant2 (MIMO)_NTNV

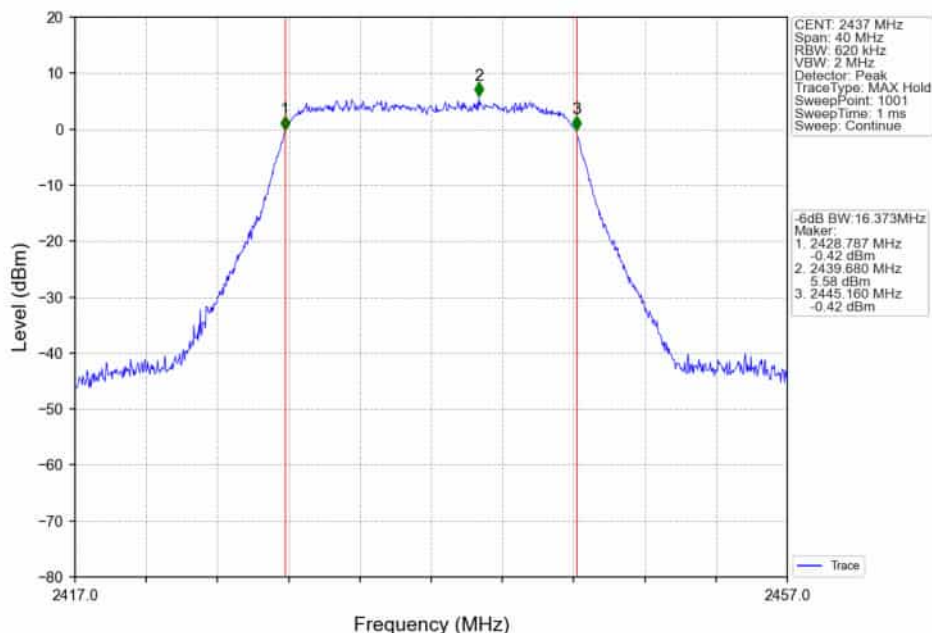


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802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV

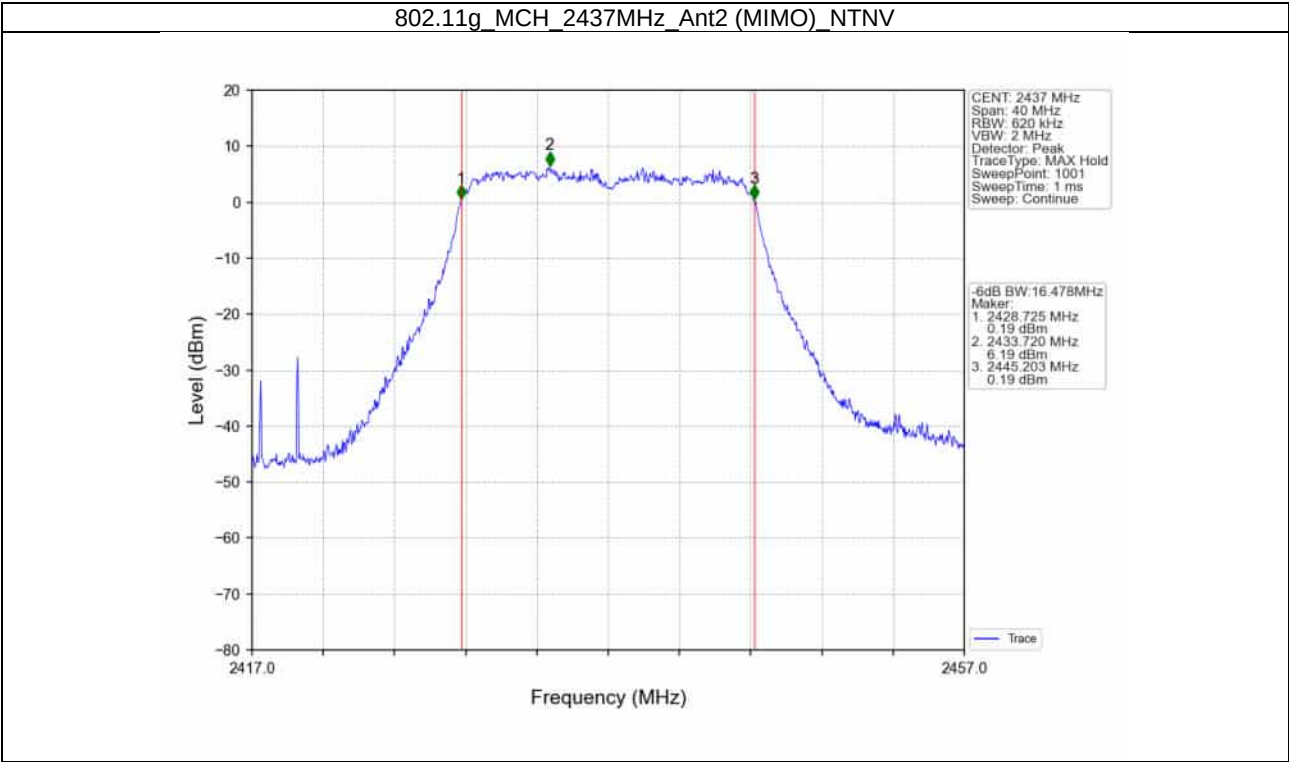


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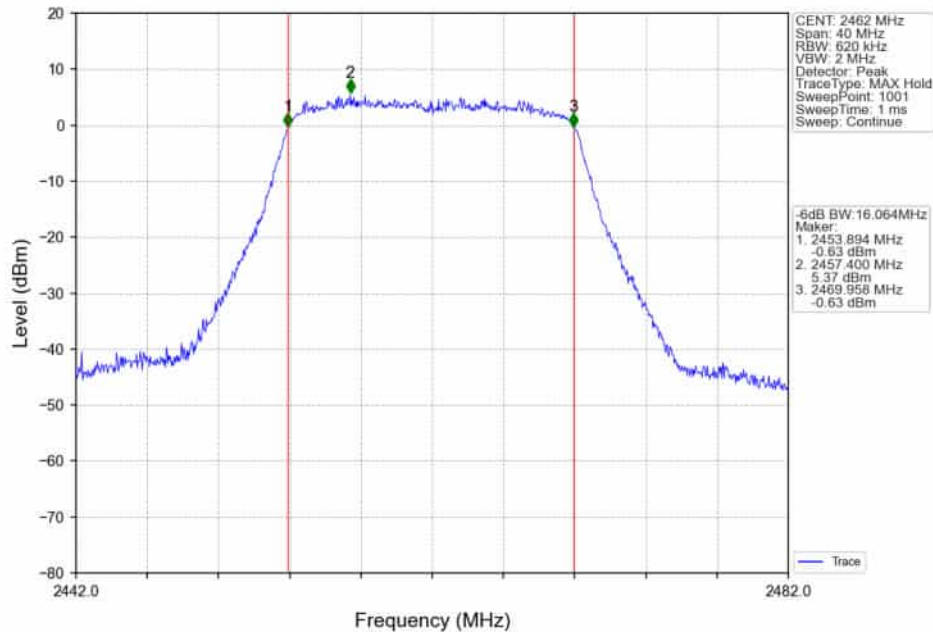


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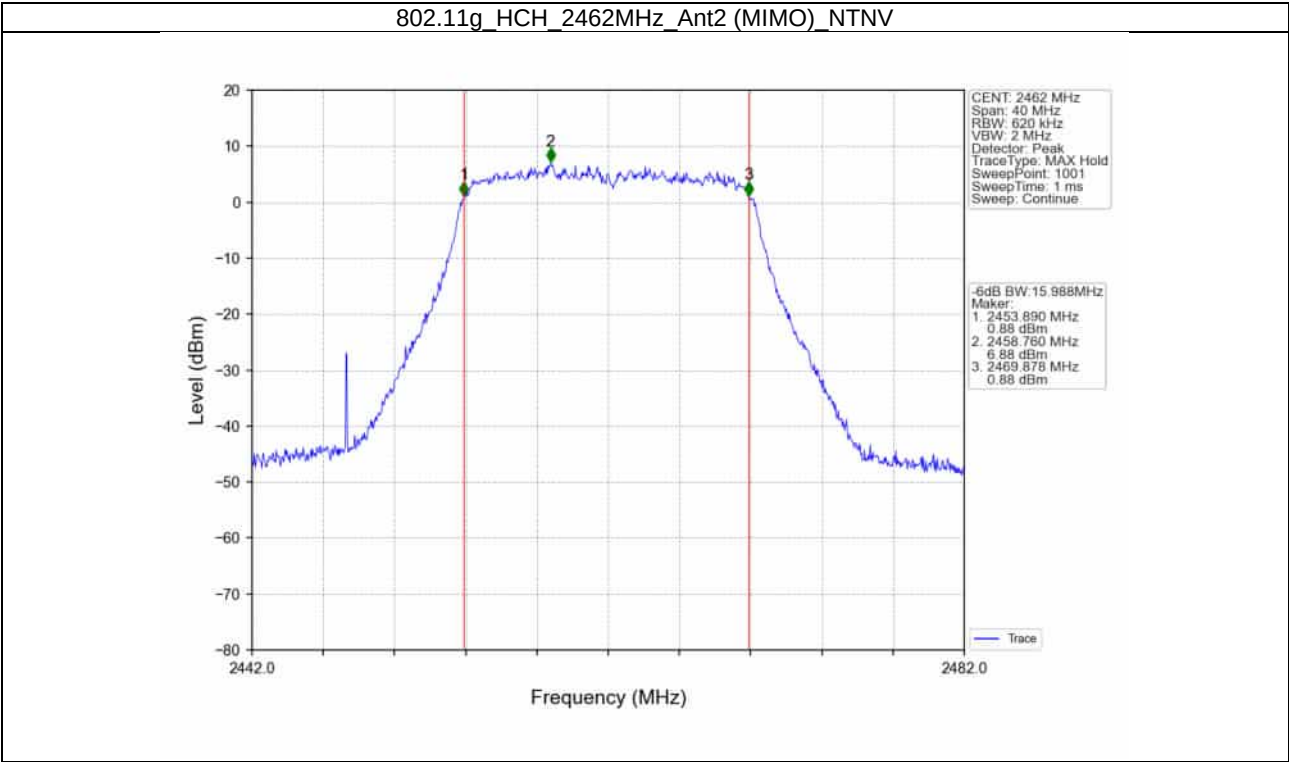
802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



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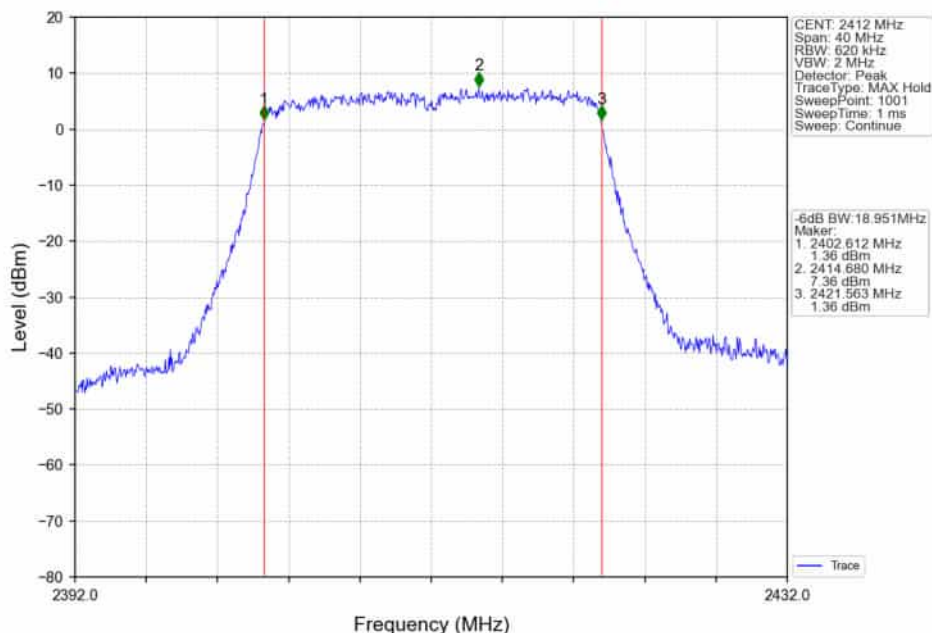


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802.11ax(HE20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV

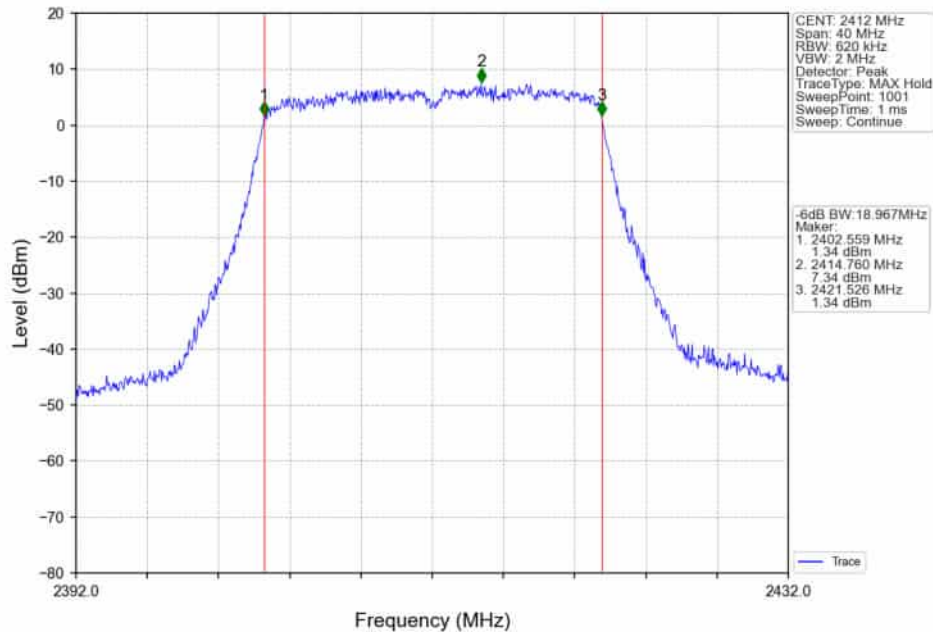


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802.11ax(HE20)_LCH_2412MHz_RU242_Left_Ant2 (MIMO)_NTNV

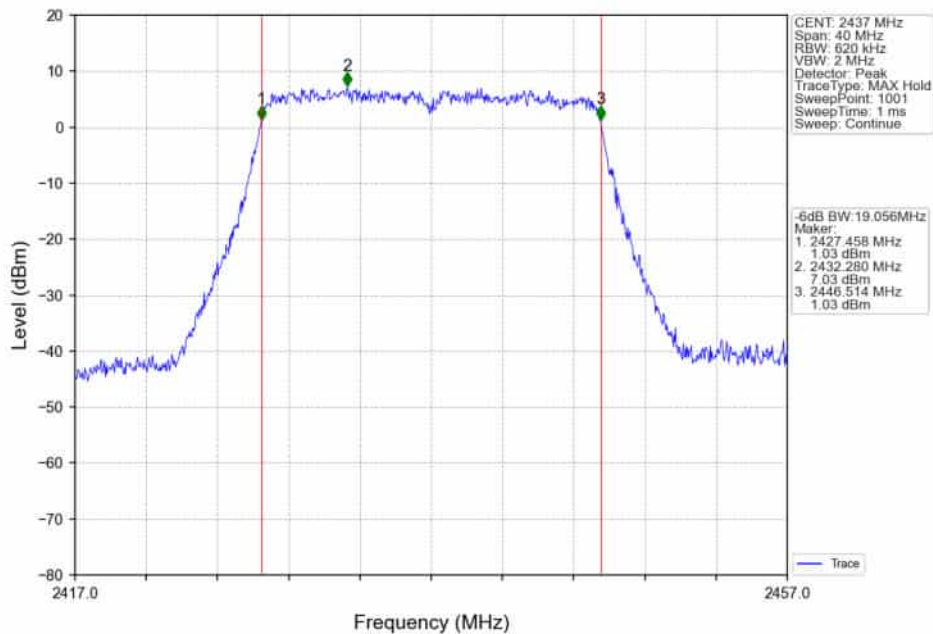


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802.11ax(HE20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV

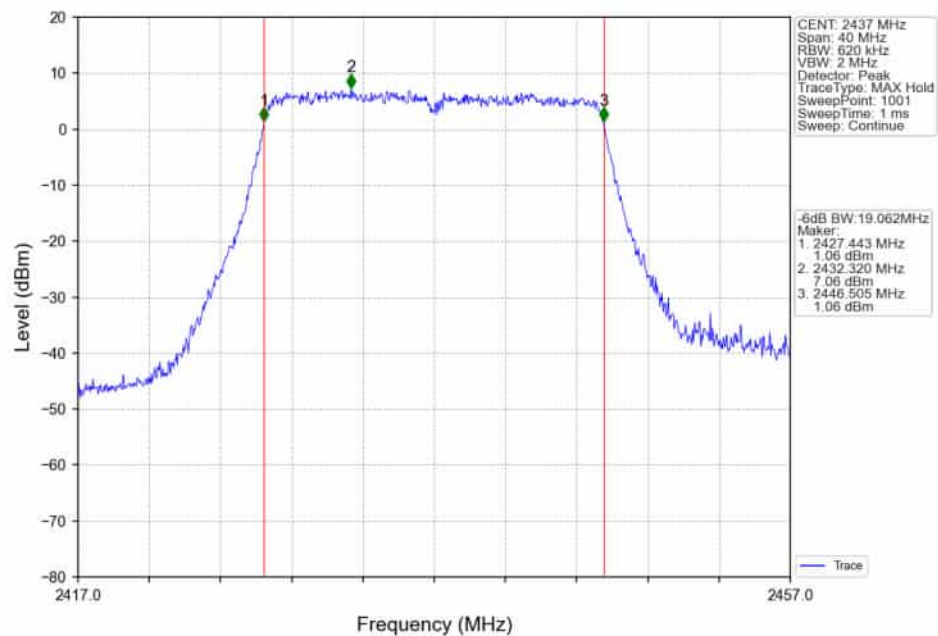


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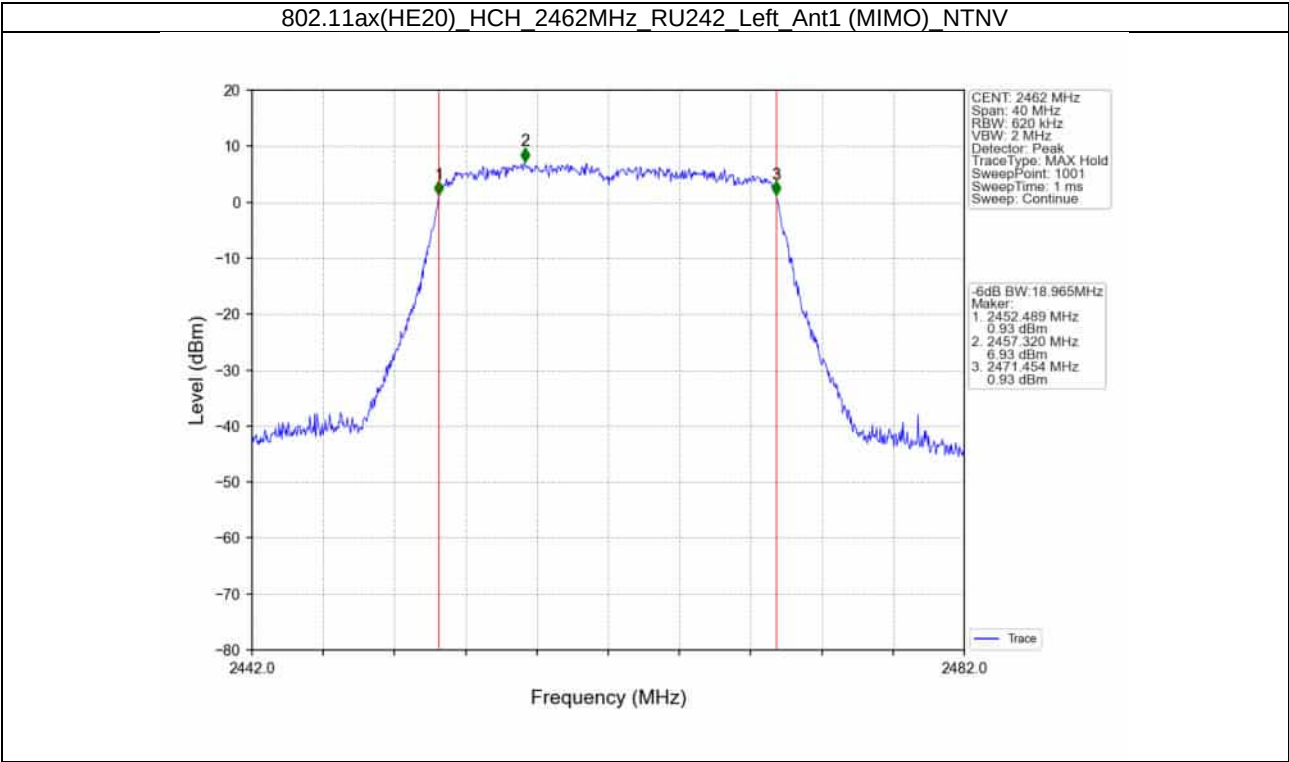


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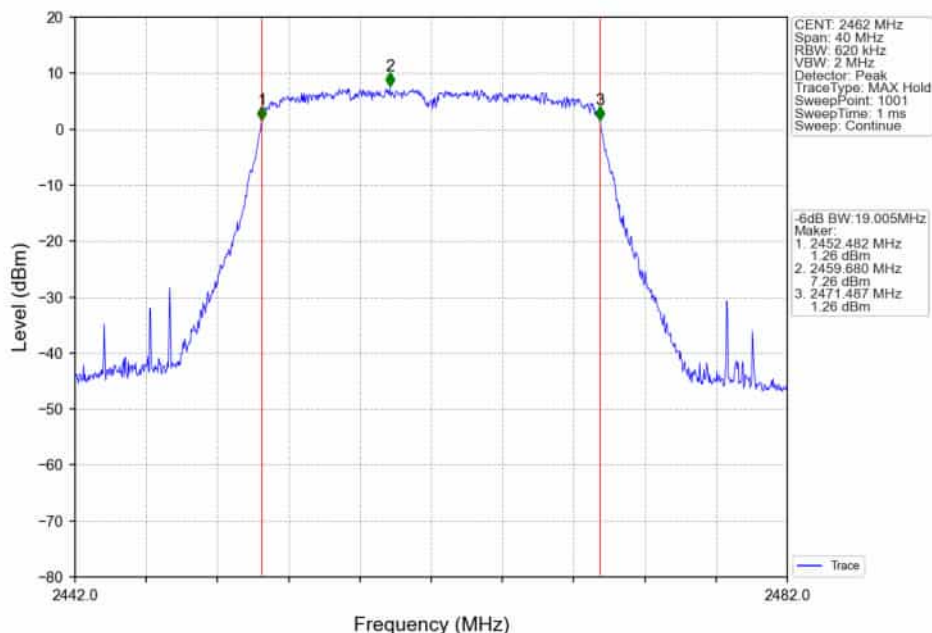


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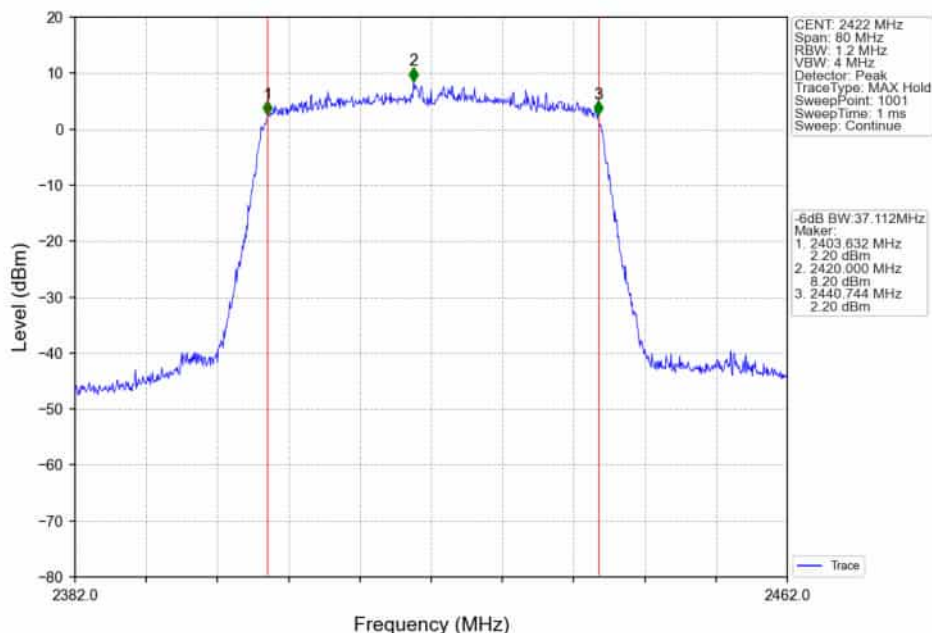


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802.11ax(HE40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV

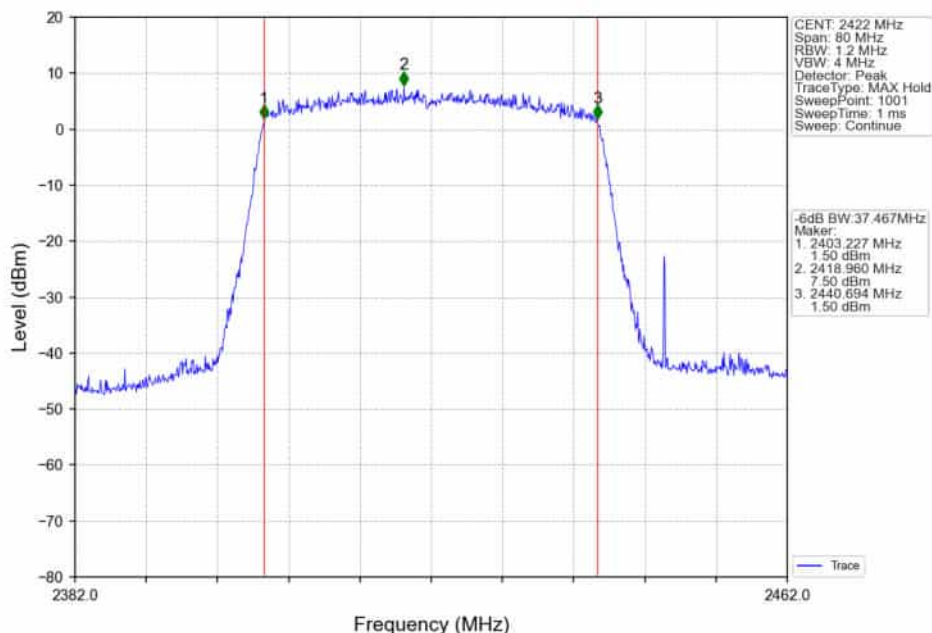


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802.11ax(HE40)_LCH_2422MHz_RU484_Left_Ant2 (MIMO)_NTNV

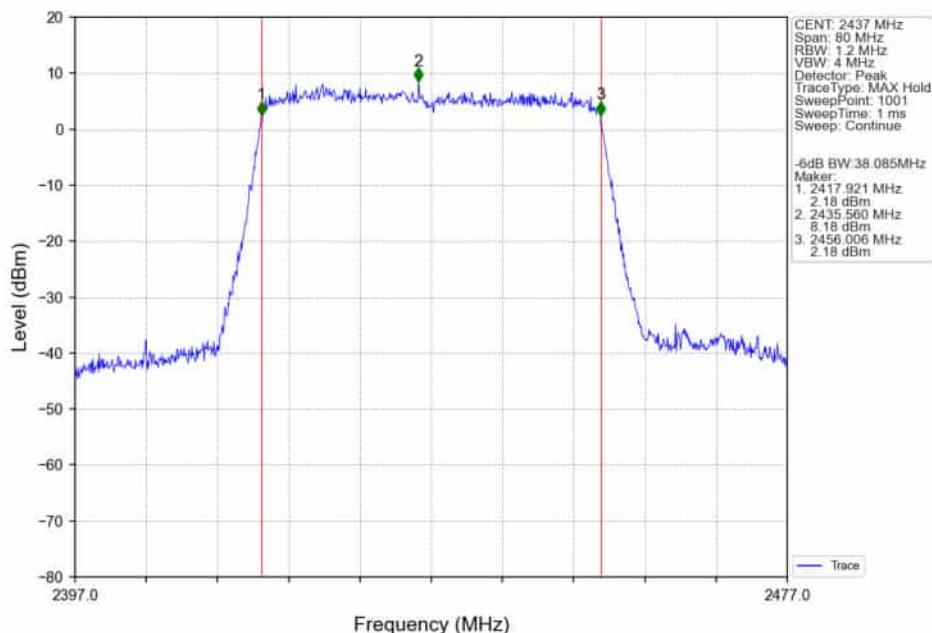


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802.11ax(HE40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV

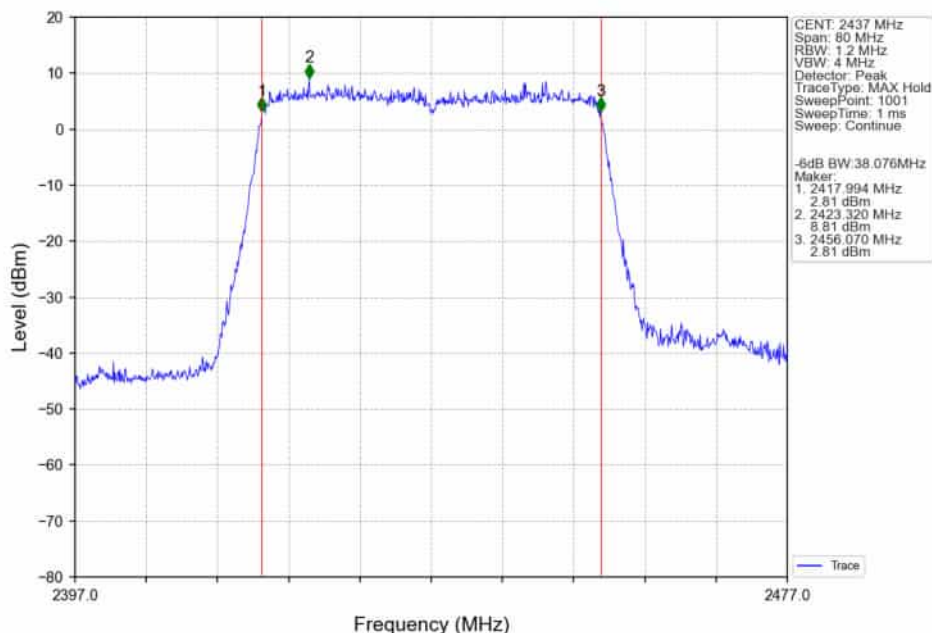


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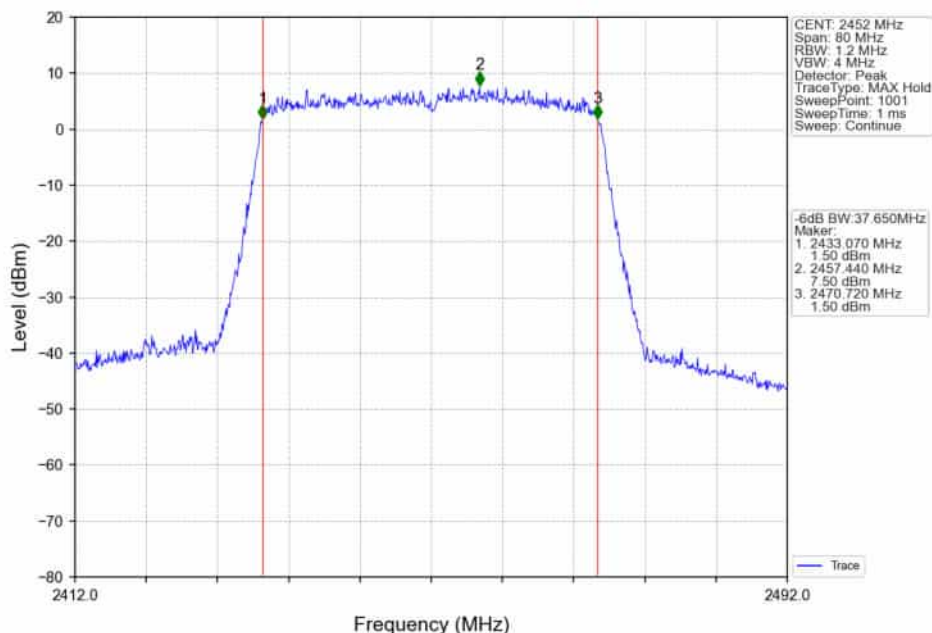


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802.11ax(HE40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV

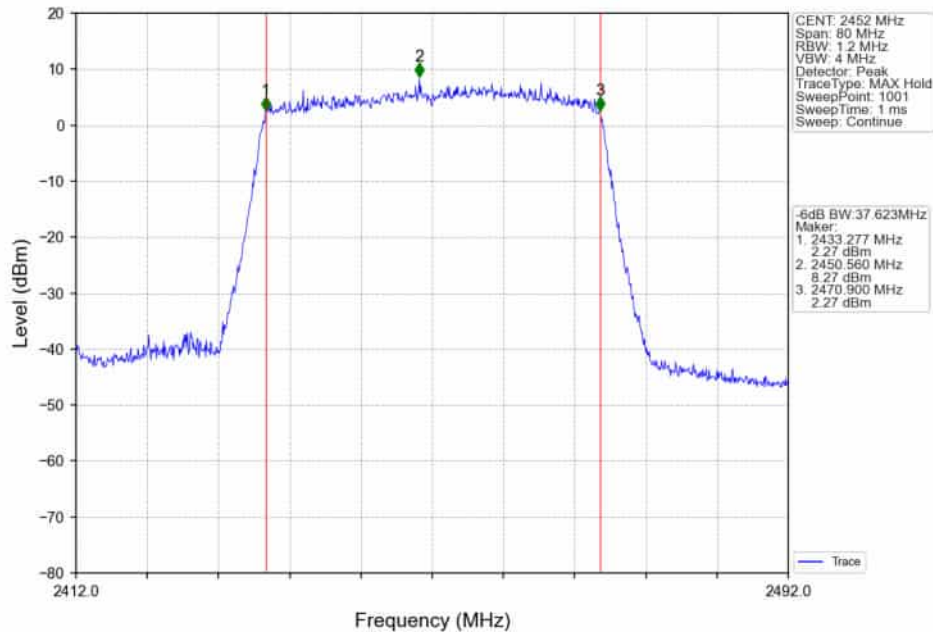


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802.11ax(HE40)_HCH_2452MHz_RU484_Left_Ant2 (MIMO)_NTNV



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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	MIMO	2412	/	/	10.24	10.26	13.26	<=30	Pass
		2437	/	/	10.04	9.91	12.99	<=30	Pass
		2462	/	/	9.89	10.35	13.14	<=30	Pass
802.11g	MIMO	2412	/	/	10.06	9.88	12.98	<=30	Pass
		2437	/	/	9.97	9.72	12.86	<=30	Pass
		2462	/	/	9.59	10.05	12.84	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	9.81	9.71	12.77	<=30	Pass
		2437	/	/	9.8	9.74	12.78	<=30	Pass
		2462	/	/	9.32	9.8	12.58	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	9.31	9.41	12.37	<=30	Pass
		2437	/	/	9.59	9.72	12.67	<=30	Pass
		2452	/	/	9.47	9.35	12.42	<=30	Pass
802.11ax (HE20)	MIMO	2412	RU242	Left	9.94	9.83	12.90	<=30	Pass
		2437	RU242	Left	9.87	9.78	12.84	<=30	Pass
		2462	RU242	Left	9.37	9.82	12.61	<=30	Pass
802.11ax (HE40)	MIMO	2422	RU484	Left	9.40	9.44	12.43	<=30	Pass
		2437	RU484	Left	9.70	9.78	12.75	<=30	Pass
		2452	RU484	Left	9.52	9.40	12.47	<=30	Pass
Note1: Antenna Gain: Ant1: 3.98dBi; Ant2: 3.98dBi; Note2: Directional Gain: 3.98dBi Note3: Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0									

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3.1.2 TXBF Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	MIMO	2412	/	/	10.24	10.26	13.26	<=29.01	Pass
		2437	/	/	10.04	9.91	12.99	<=29.01	Pass
		2462	/	/	9.89	10.35	13.14	<=29.01	Pass
802.11g	MIMO	2412	/	/	10.06	9.88	12.98	<=29.01	Pass
		2437	/	/	9.97	9.72	12.86	<=29.01	Pass
		2462	/	/	9.59	10.05	12.84	<=29.01	Pass
802.11n (HT20)	MIMO	2412	/	/	9.81	9.71	12.77	<=29.01	Pass
		2437	/	/	9.8	9.74	12.78	<=29.01	Pass
		2462	/	/	9.32	9.8	12.58	<=29.01	Pass
802.11n (HT40)	MIMO	2422	/	/	9.31	9.41	12.37	<=29.01	Pass
		2437	/	/	9.59	9.72	12.67	<=29.01	Pass
		2452	/	/	9.47	9.35	12.42	<=29.01	Pass
802.11ax (HE20)	MIMO	2412	RU242	Left	9.94	9.83	12.90	<=29.01	Pass
		2437	RU242	Left	9.87	9.78	12.84	<=29.01	Pass
		2462	RU242	Left	9.37	9.82	12.61	<=29.01	Pass
802.11ax (HE40)	MIMO	2422	RU484	Left	9.40	9.44	12.43	<=29.01	Pass
		2437	RU484	Left	9.70	9.78	12.75	<=29.01	Pass
		2452	RU484	Left	9.52	9.40	12.47	<=29.01	Pass

Note1: Antenna Gain: Ant1: 3.98dBi; Ant2: 3.98dBi;
Note2: Directional Gain: 6.99dBi
Note3: Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	MIMO	2412	/	/	-13.47	-12.99	-10.26	<=7.01	Pass
		2437	/	/	-13.70	-13.92	-11.75	<=7.01	Pass
		2462	/	/	-13.19	-12.41	-9.77	<=7.01	Pass
802.11g	MIMO	2412	/	/	-15.79	-15.58	-13.31	<=7.01	Pass
		2437	/	/	-15.56	-15.35	-13.75	<=7.01	Pass
		2462	/	/	-15.71	-14.97	-13.70	<=7.01	Pass
802.11ax (HE20)	MIMO	2412	RU242	Left	-16.15	-15.98	-14.78	<=7.01	Pass
		2437	RU242	Left	-16.79	-16.69	-14.78	<=7.01	Pass
		2462	RU242	Left	-17.04	-16.34	-15.05	<=7.01	Pass
802.11ax (HE40)	MIMO	2422	RU484	Left	-19.79	-19.24	-17.65	<=7.01	Pass
		2437	RU484	Left	-17.93	-18.66	-16.81	<=7.01	Pass
		2452	RU484	Left	-18.94	-19.73	-17.18	<=7.01	Pass

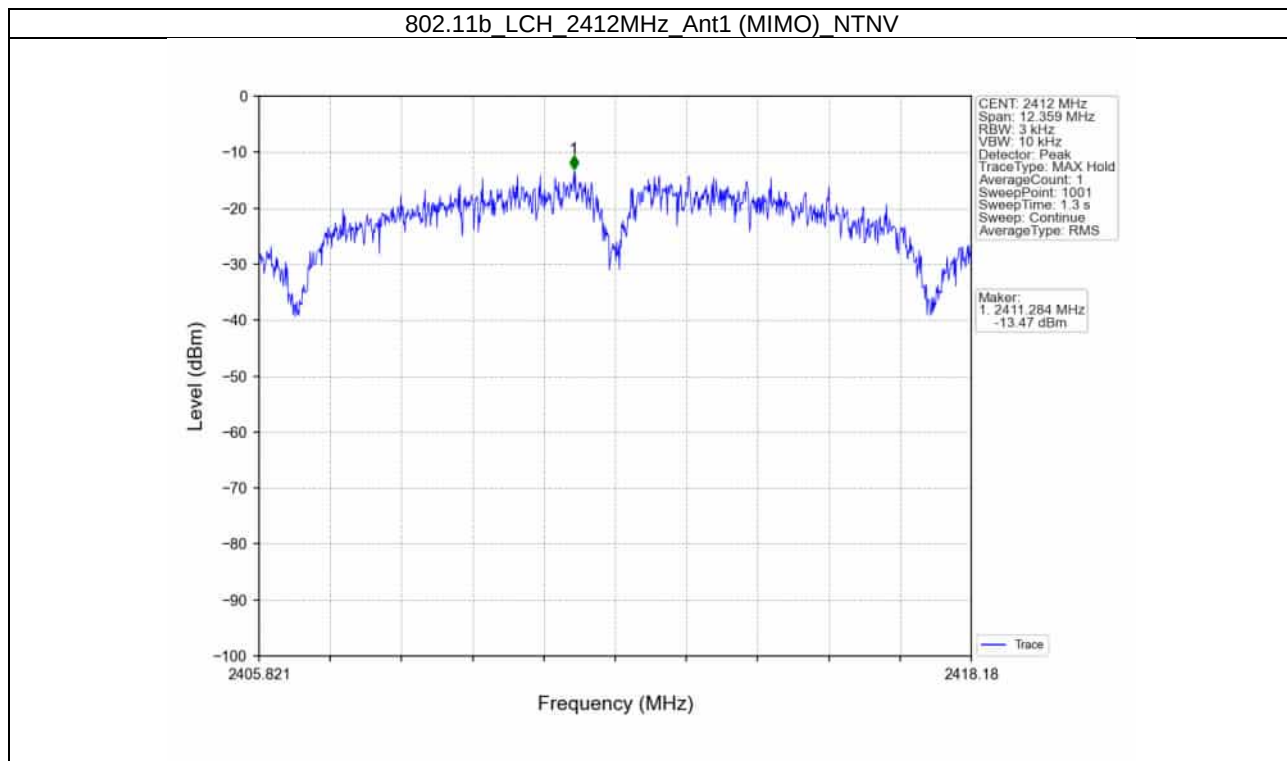
Note1: Antenna Gain: Ant1: 3.98dBi; Ant2: 3.98dBi;
Note2: Directional Gain: Band1: 6.99dB
Note3: PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi) =6.99 – 6 = 0.99

Remark:

For 802.11n HT20/ax HE20, 802.11n HT40/ax HE40 mode, the whole testing have assessed only 802.11ax HE20/40 by referring to their higher output power.

4.2 Test Graph

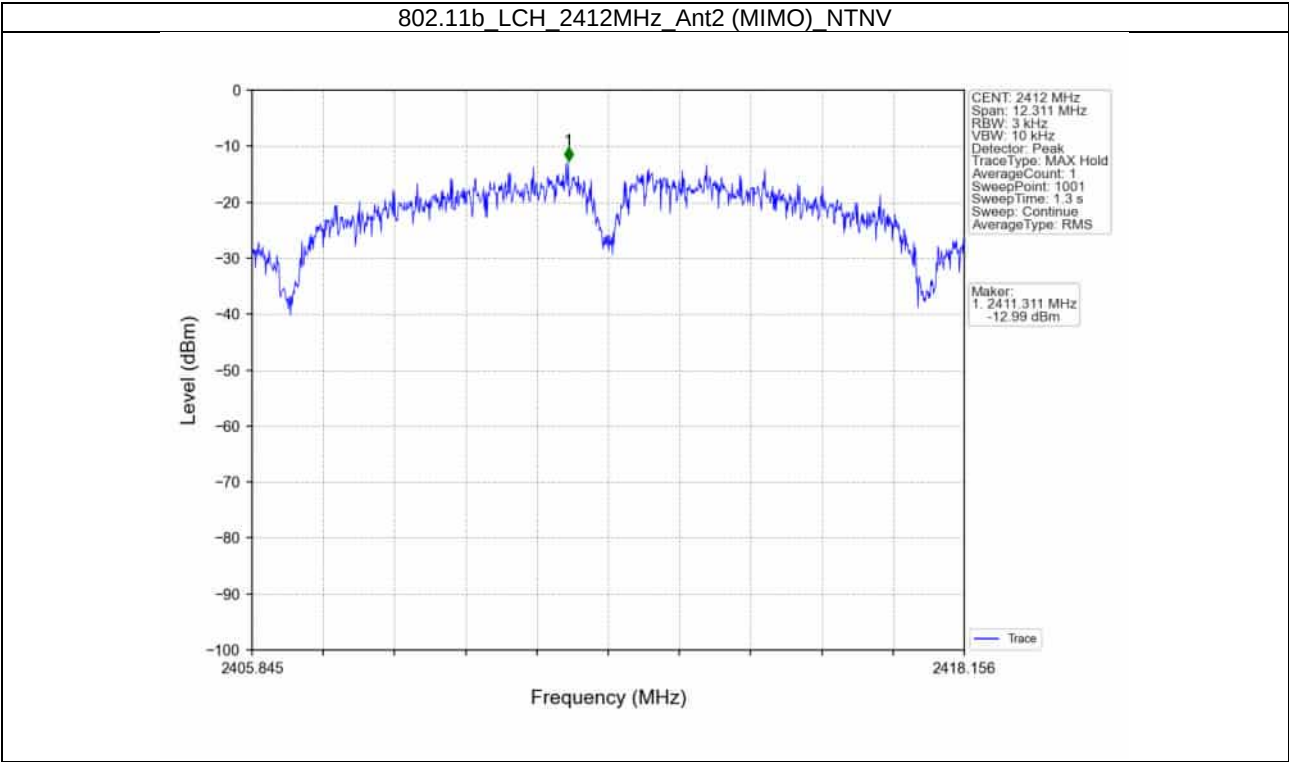
4.2.1 PSD



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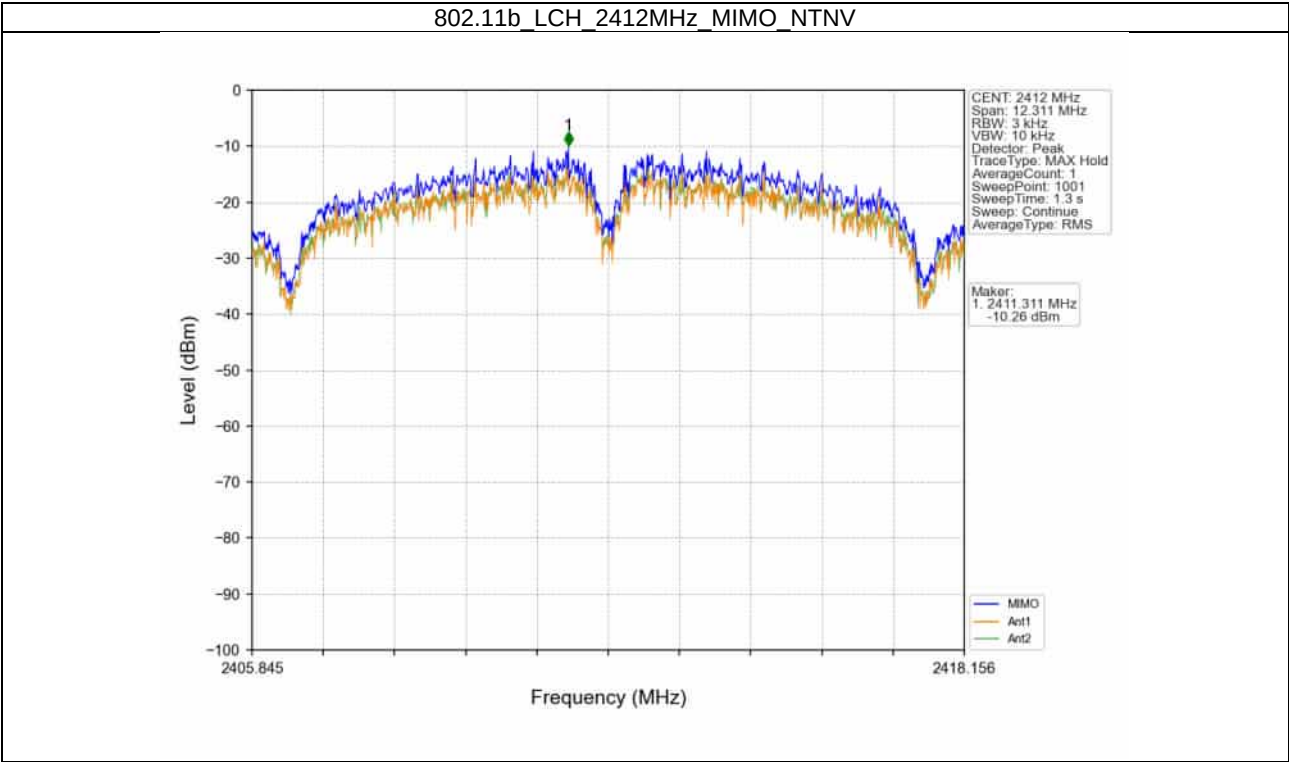
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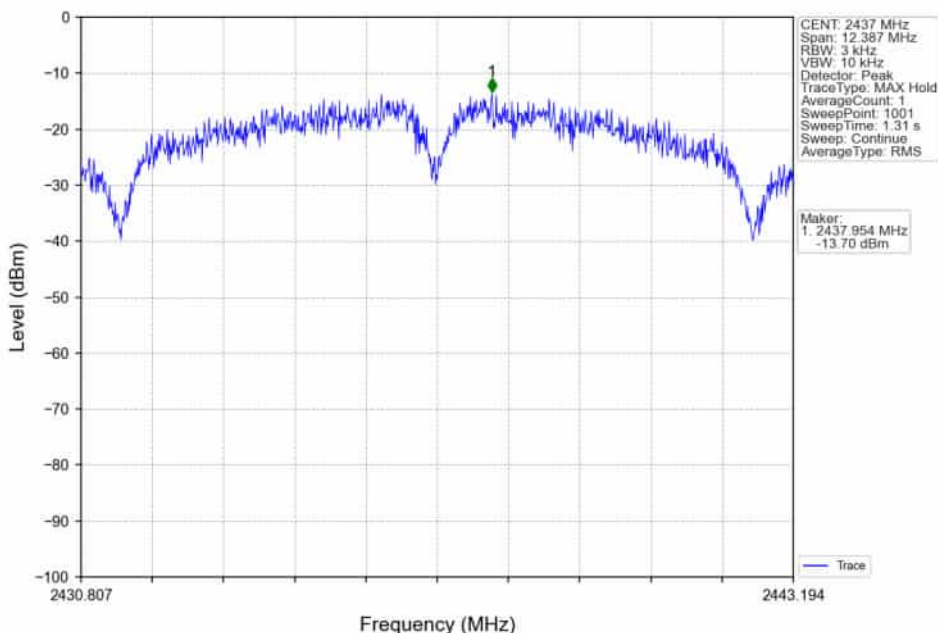


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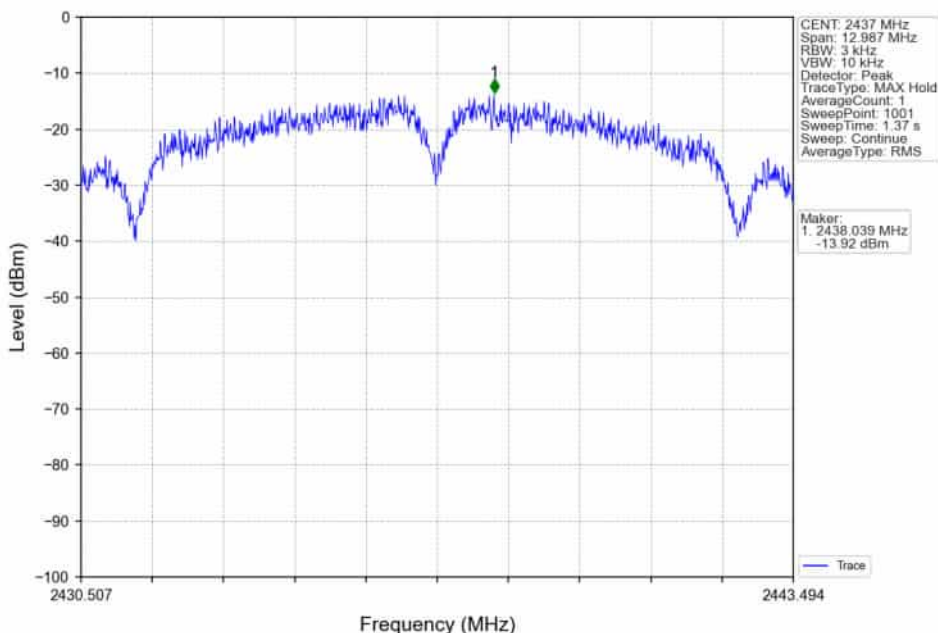


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802.11b_MCH_2437MHz_Ant2 (MIMO)_NTNV



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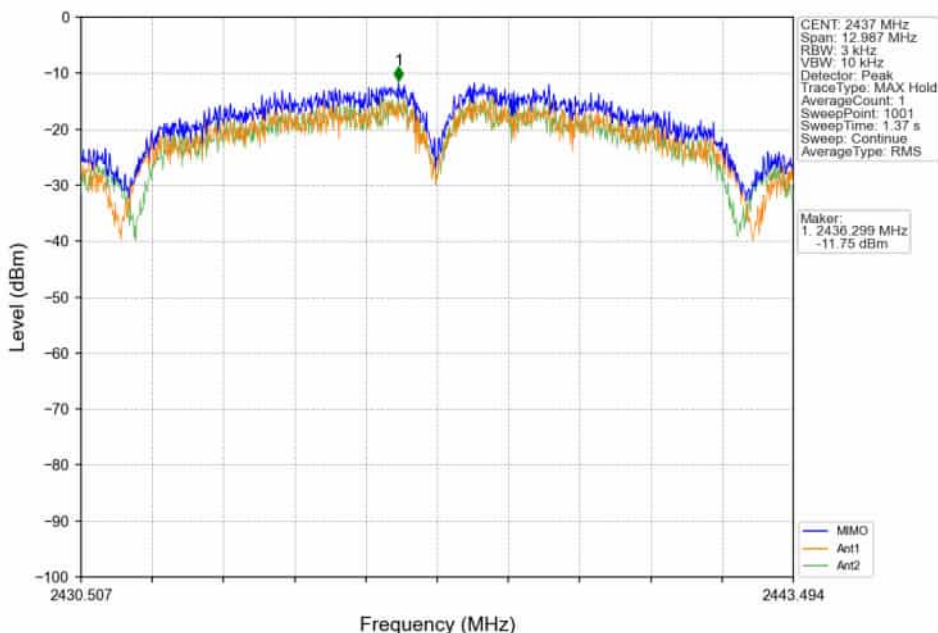
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802.11b_MCH_2437MHz_MIMO_NTNV

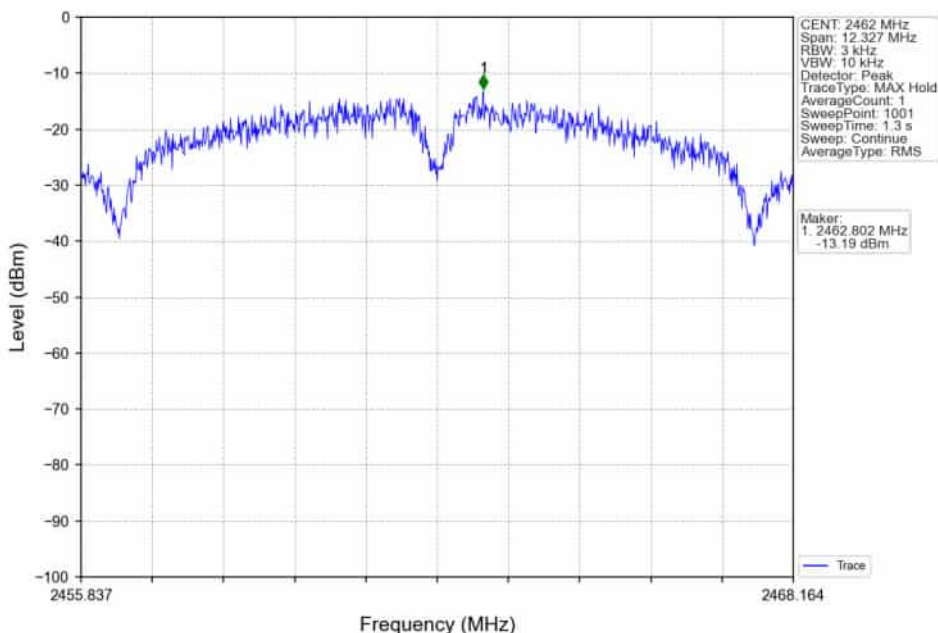


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802.11b_HCH_2462MHz_Ant1 (MIMO)_NTNV

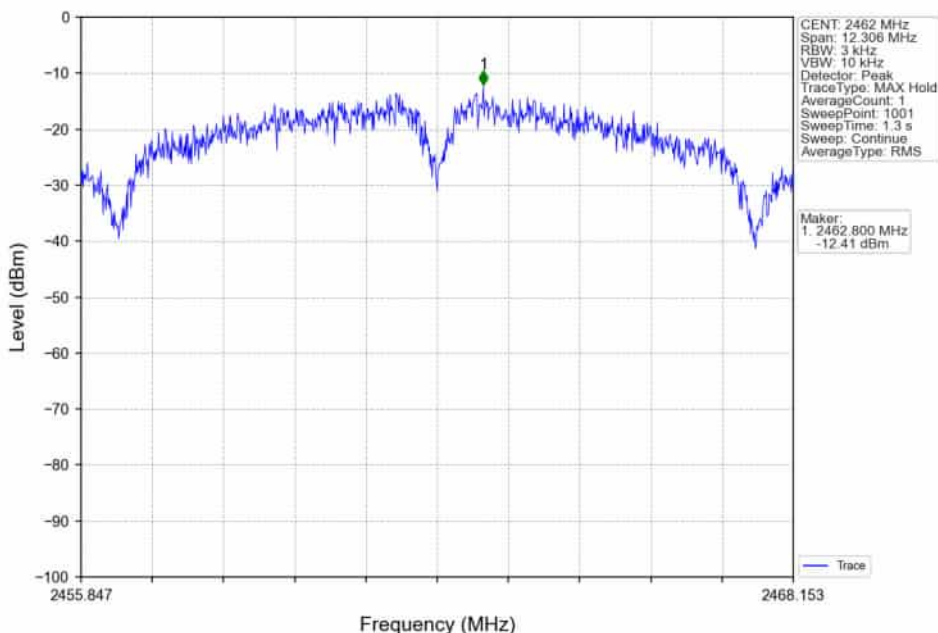


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802.11b_HCH_2462MHz_Ant2 (MIMO)_NTNV

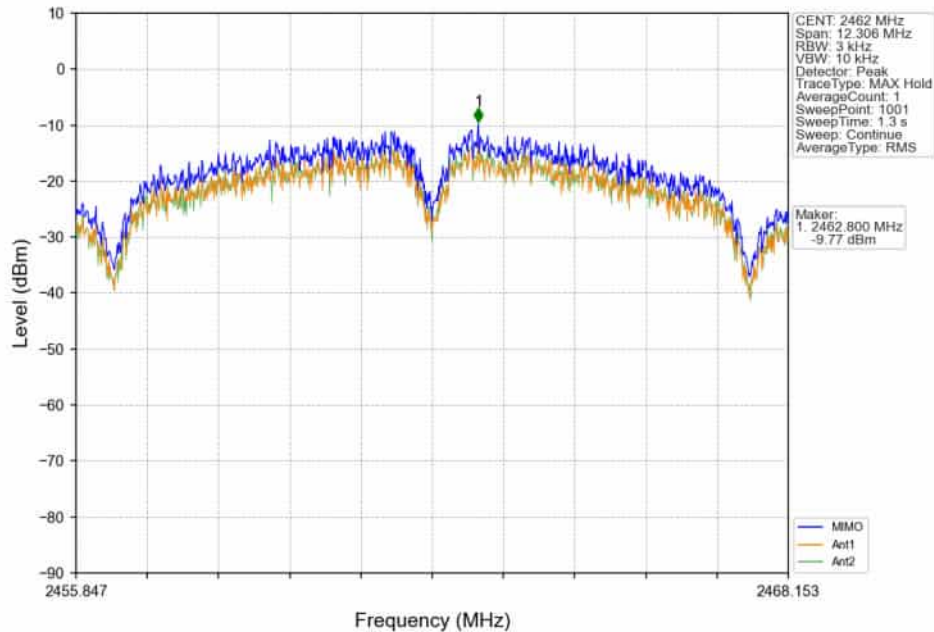


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802.11b_HCH_2462MHz_MIMO_NTNV

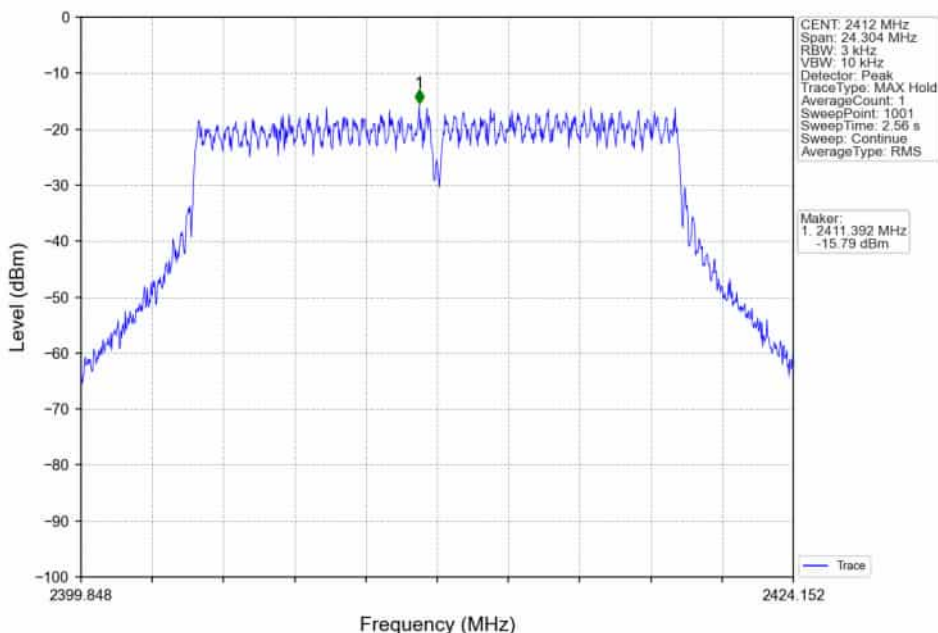


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802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



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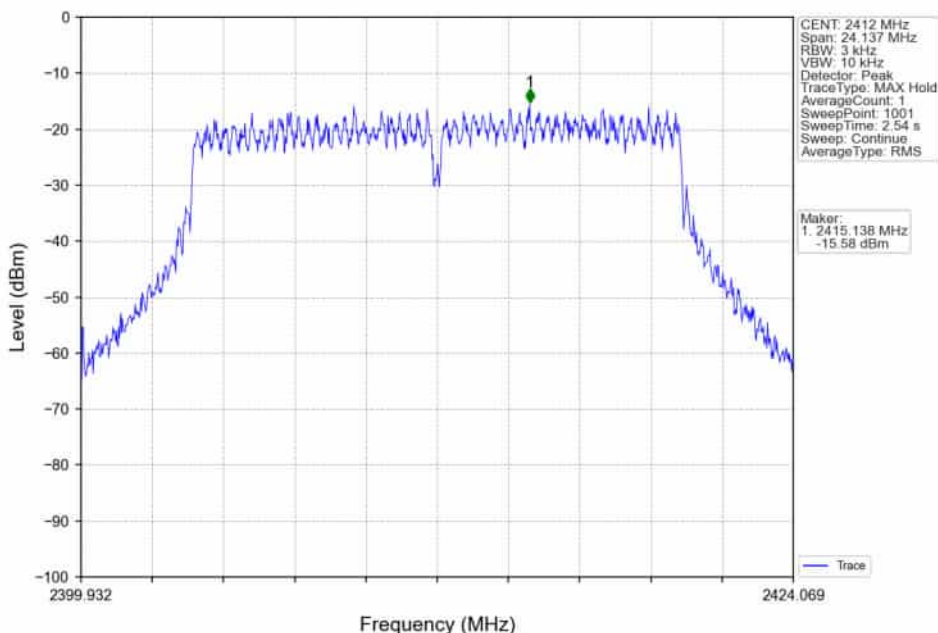
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802.11g_LCH_2412MHz_Ant2 (MIMO)_NTNV

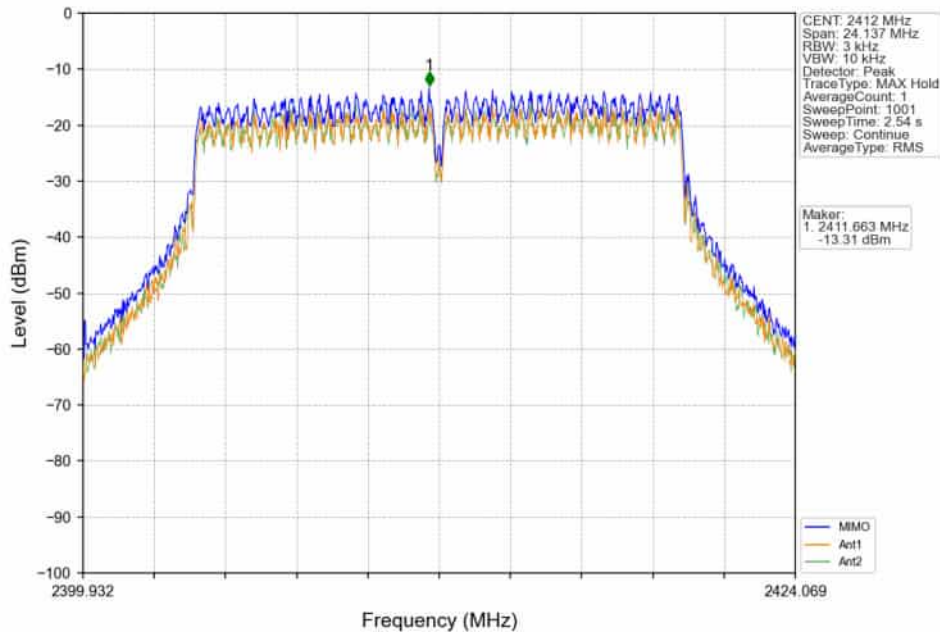


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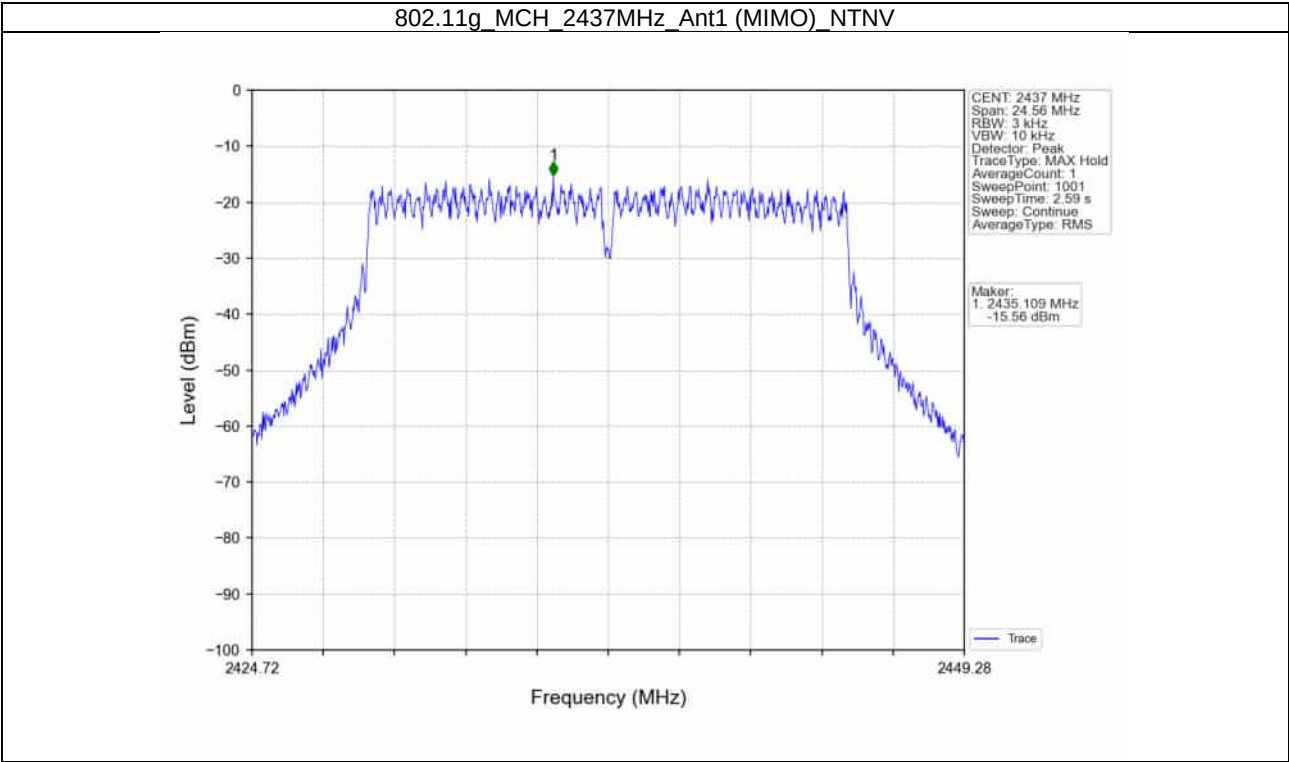
802.11g_LCH_2412MHz_MIMO_NTNV



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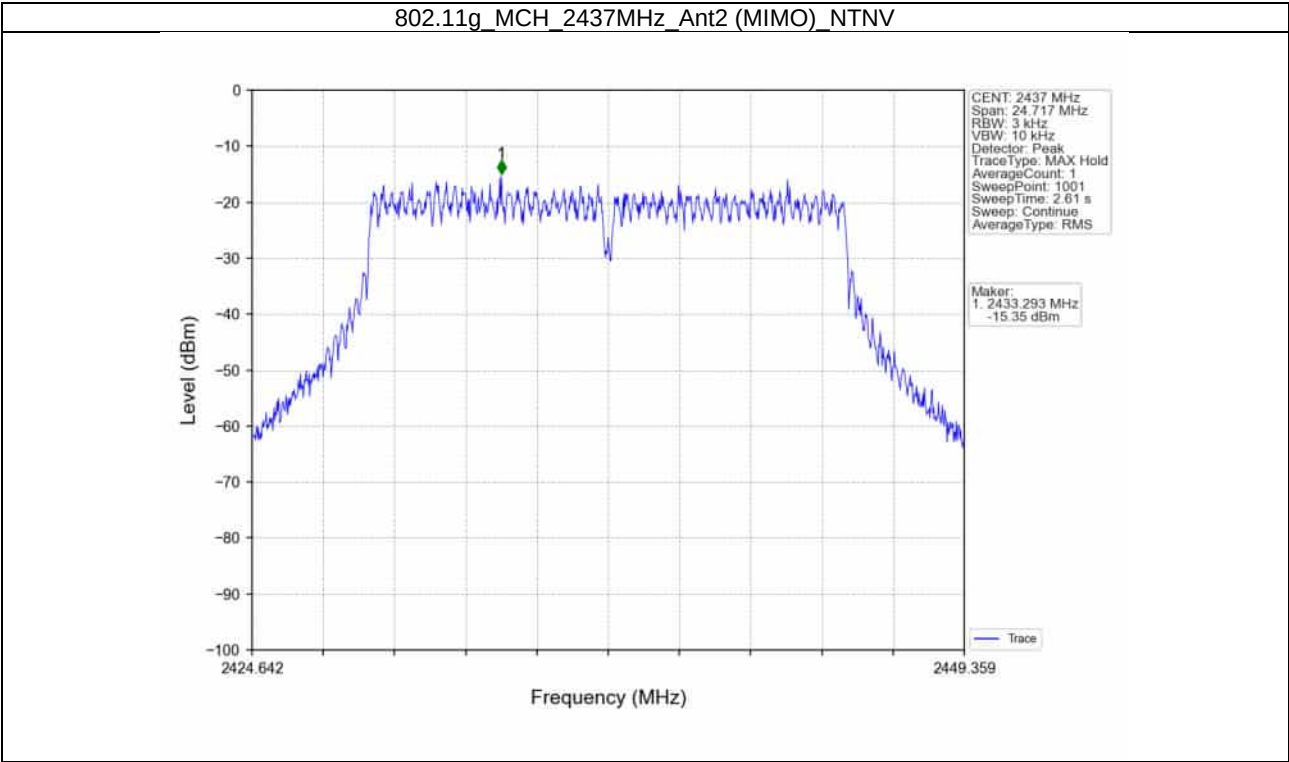
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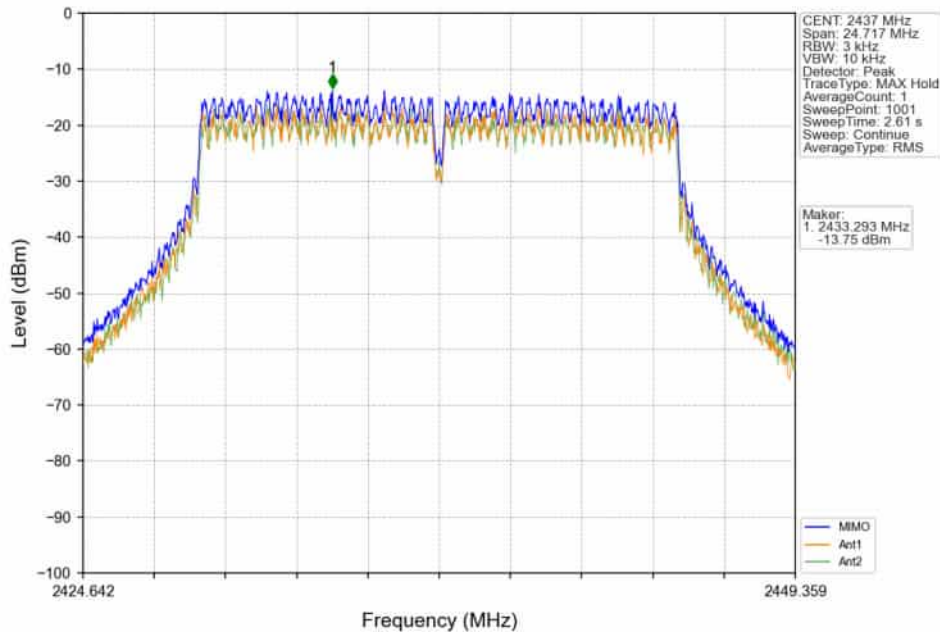


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802.11g_MCH_2437MHz_MIMO_NTNV

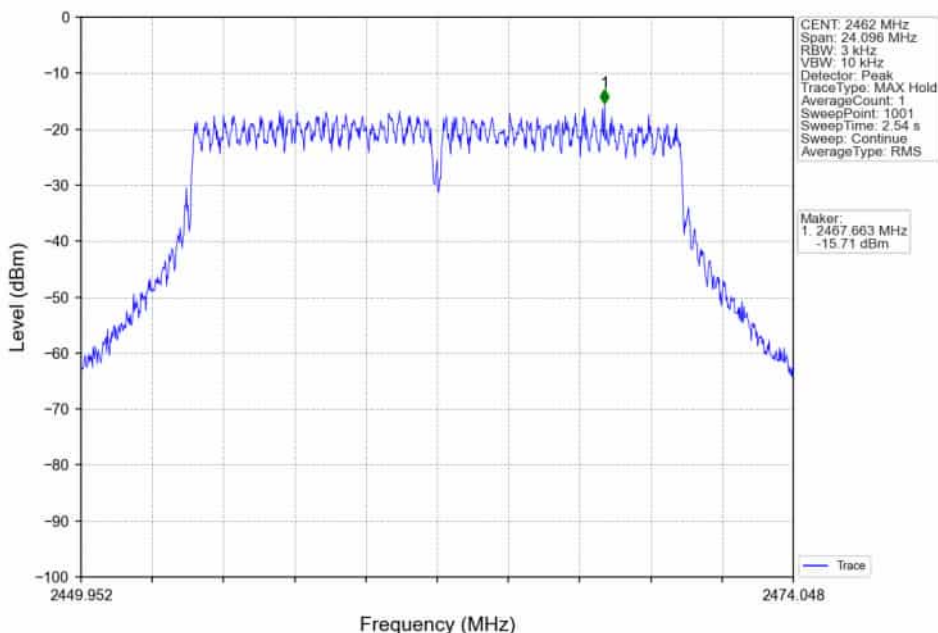


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802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV

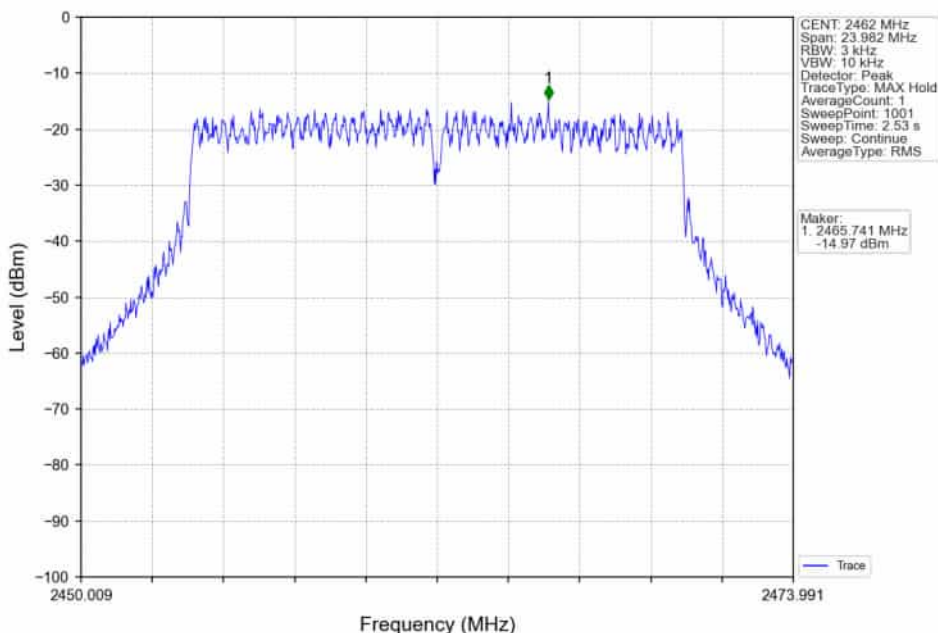


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802.11g_HCH_2462MHz_Ant2 (MIMO)_NTNV

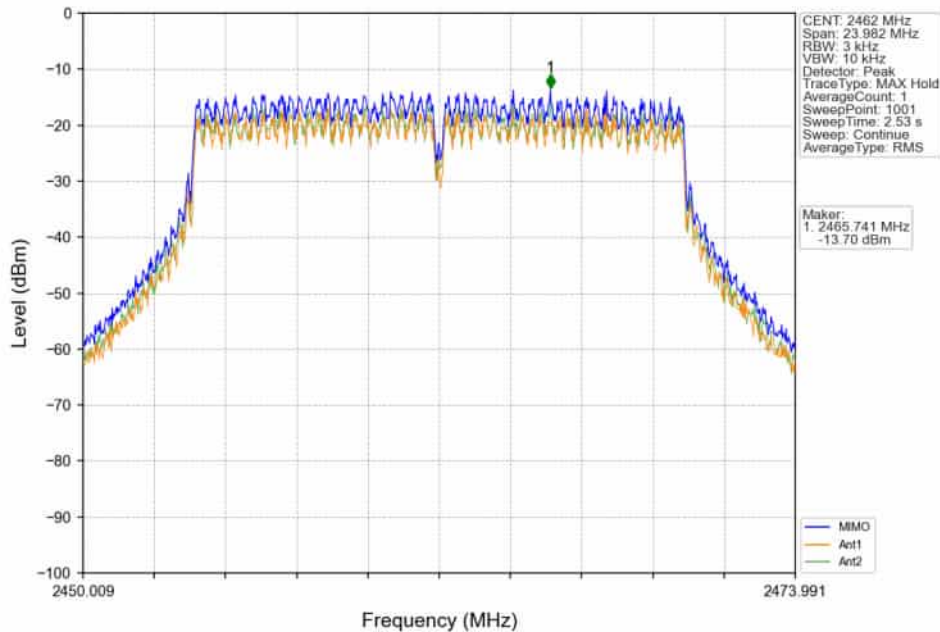


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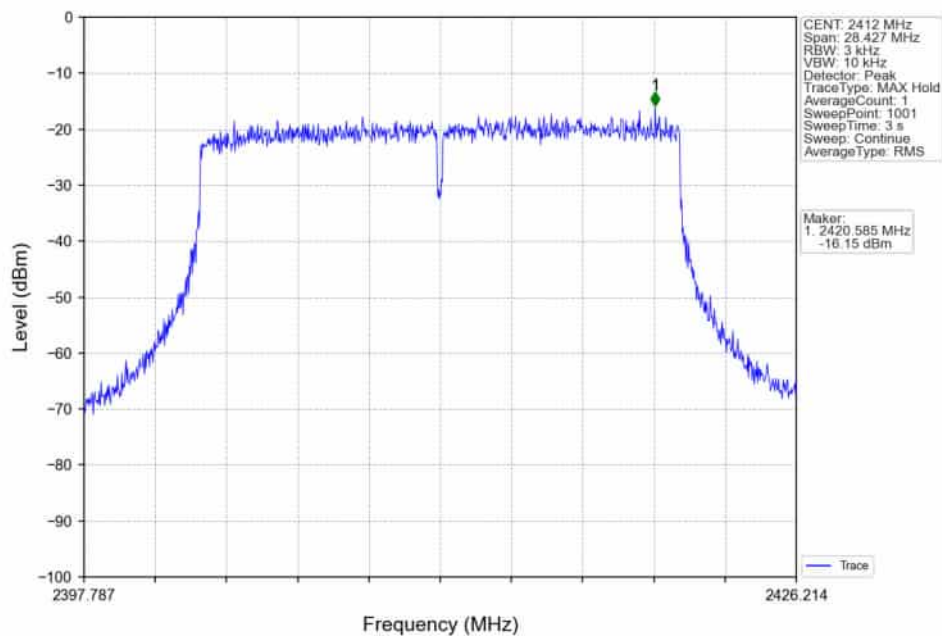


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802.11ax(HE20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



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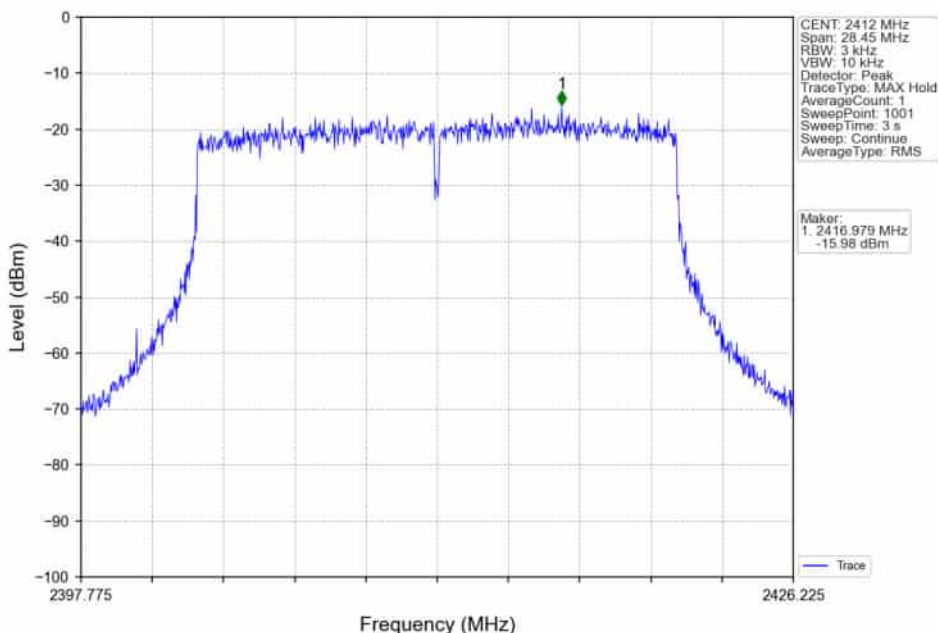
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802.11ax(HE20)_LCH_2412MHz_RU242_Left_Ant2 (MIMO)_NTNV

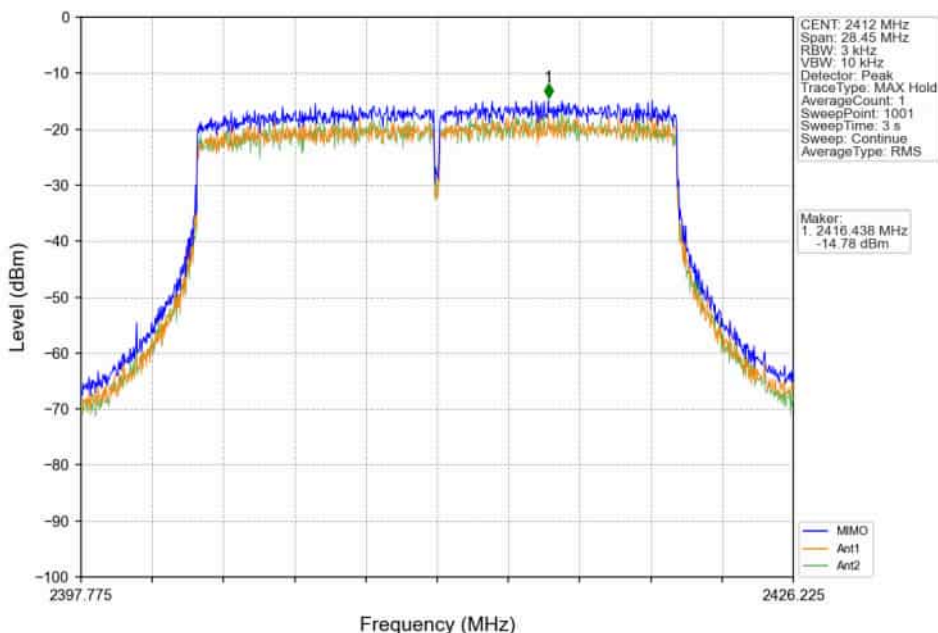


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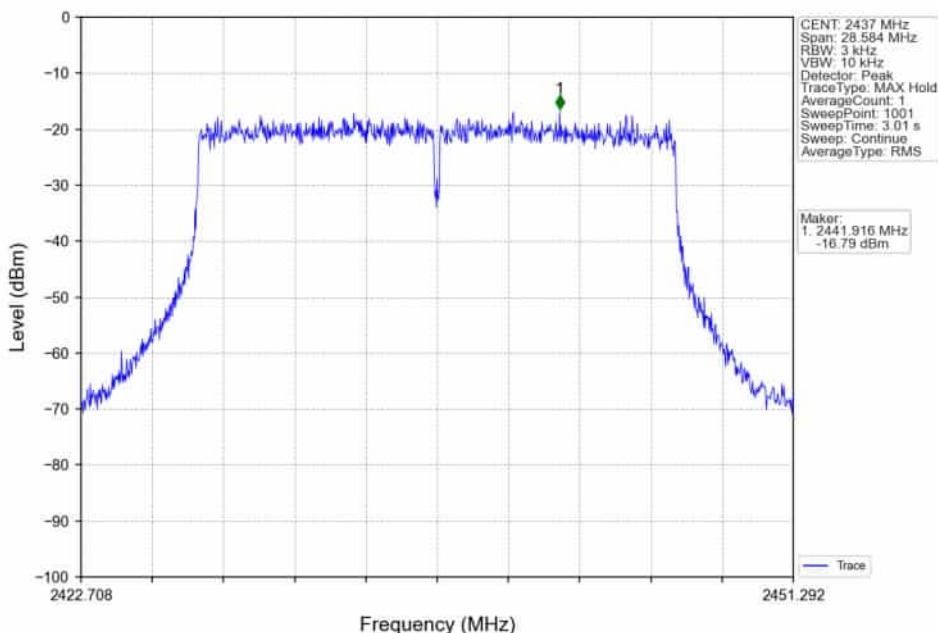


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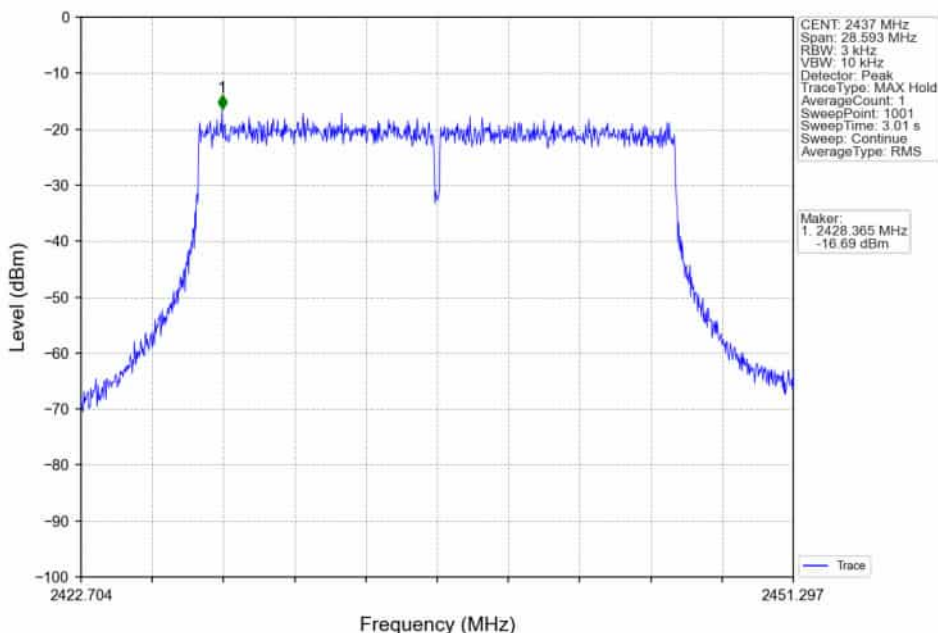


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802.11ax(HE20)_MCH_2437MHz_RU242_Left_Ant2 (MIMO)_NTNV

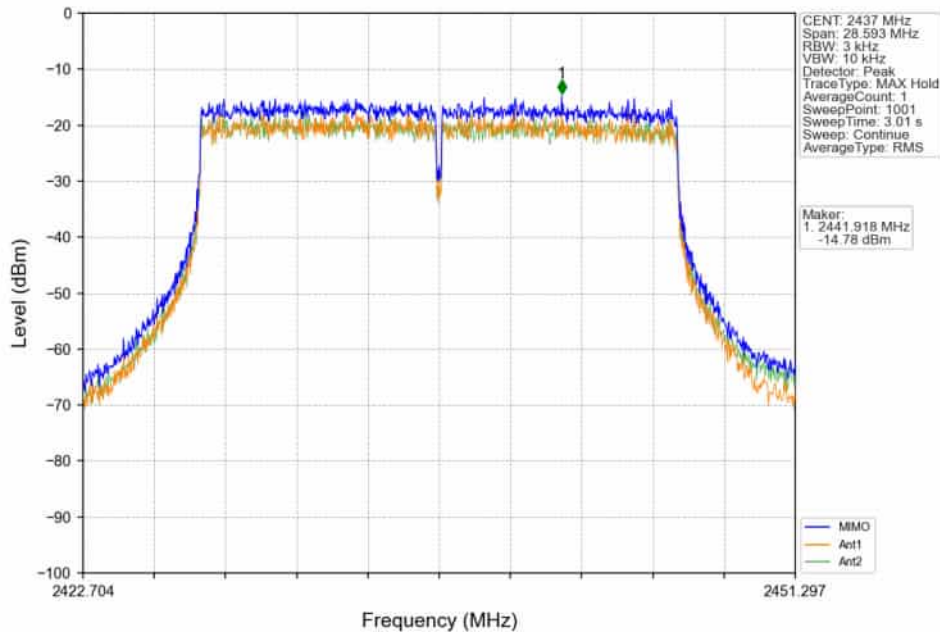


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802.11ax(HE20)_MCH_2437MHz_RU242_Left_MIMO_NTNV

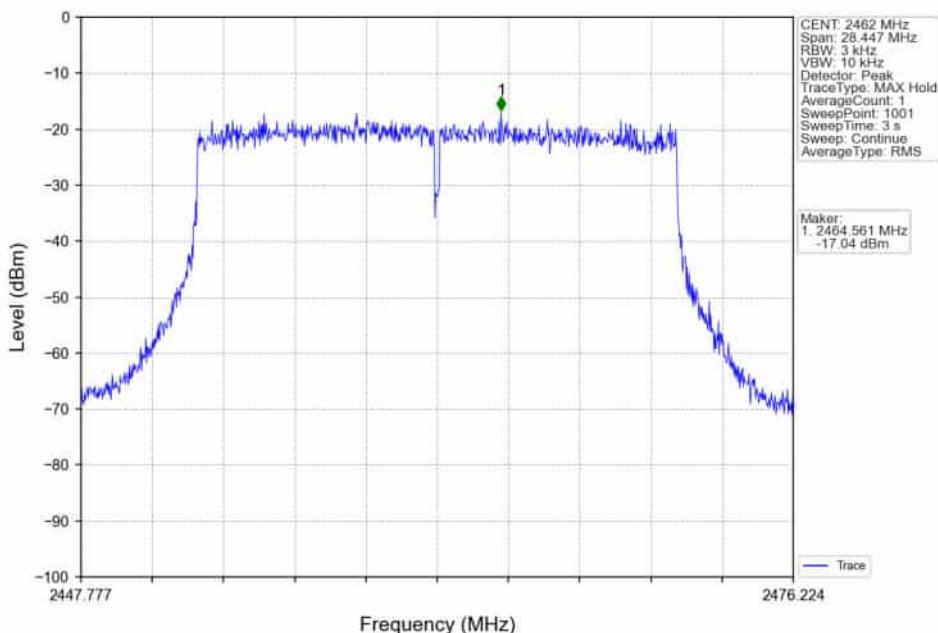


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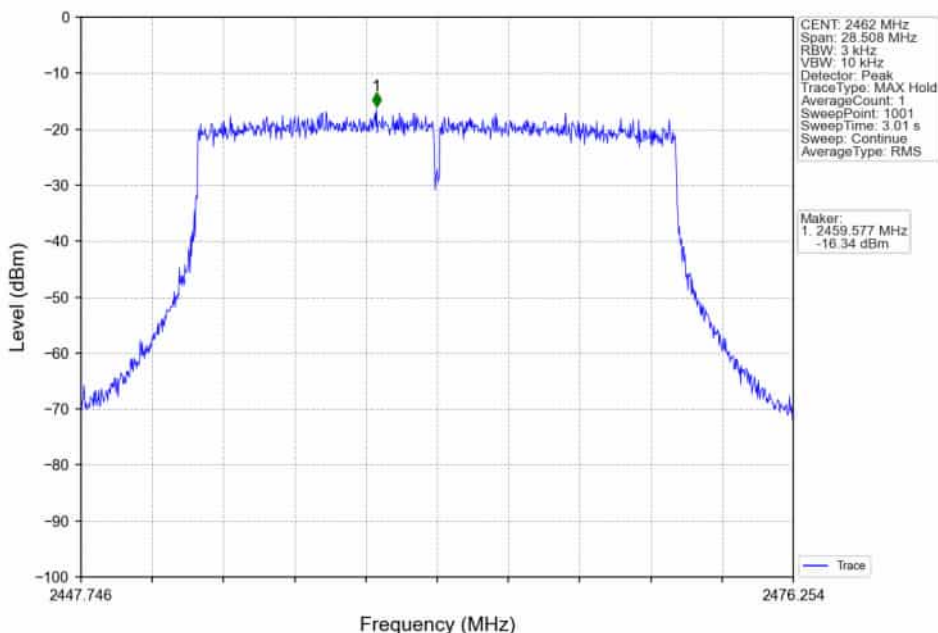


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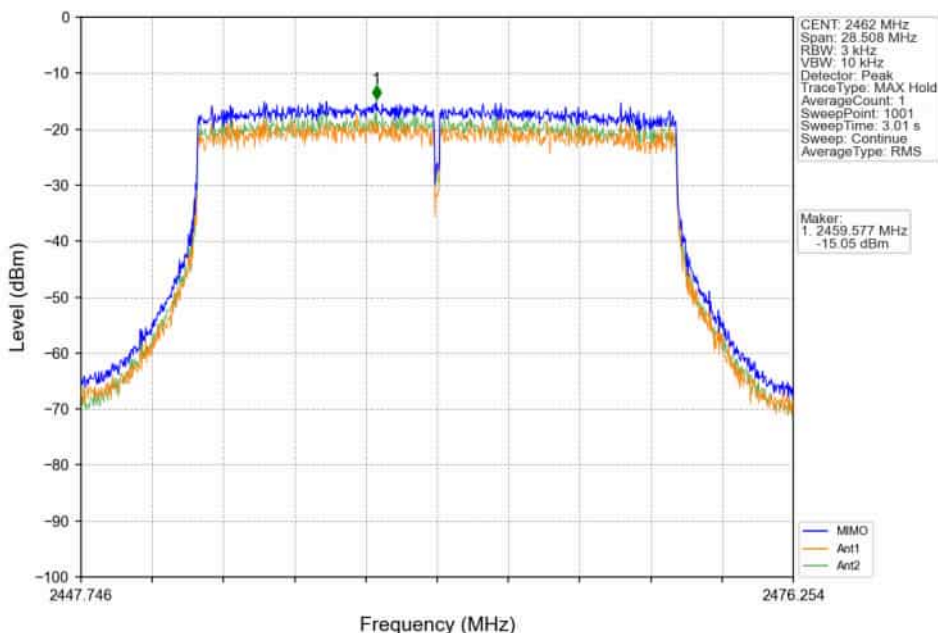


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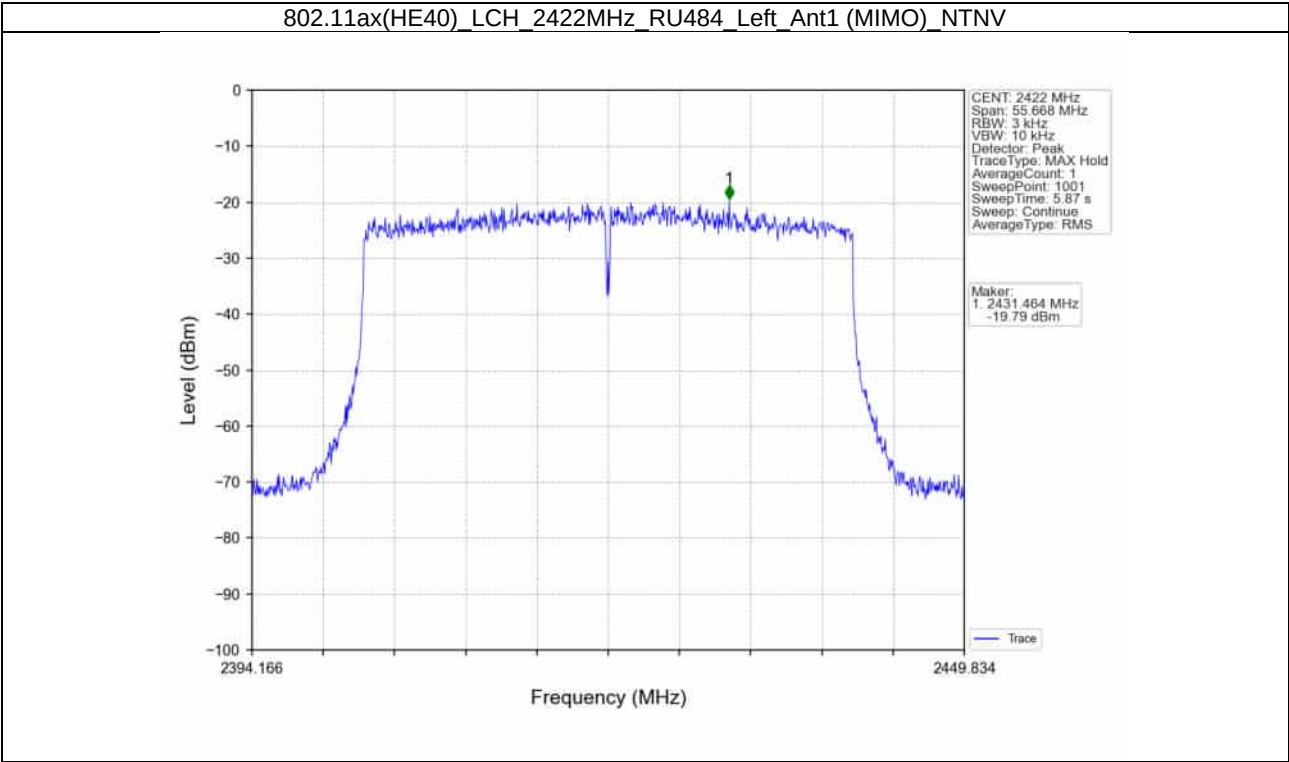
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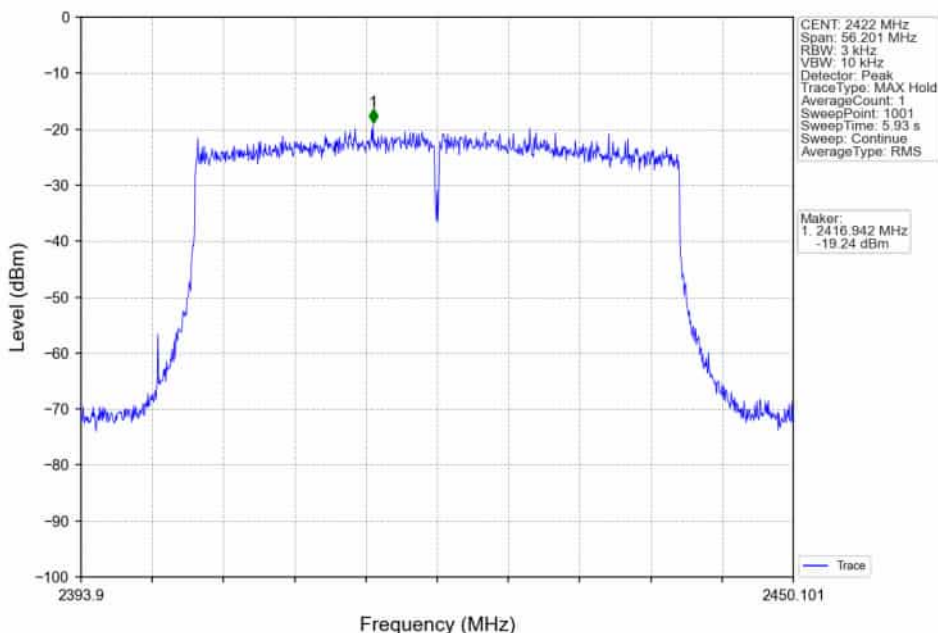


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802.11ax(HE40)_LCH_2422MHz_RU484_Left_Ant2 (MIMO)_NTNV

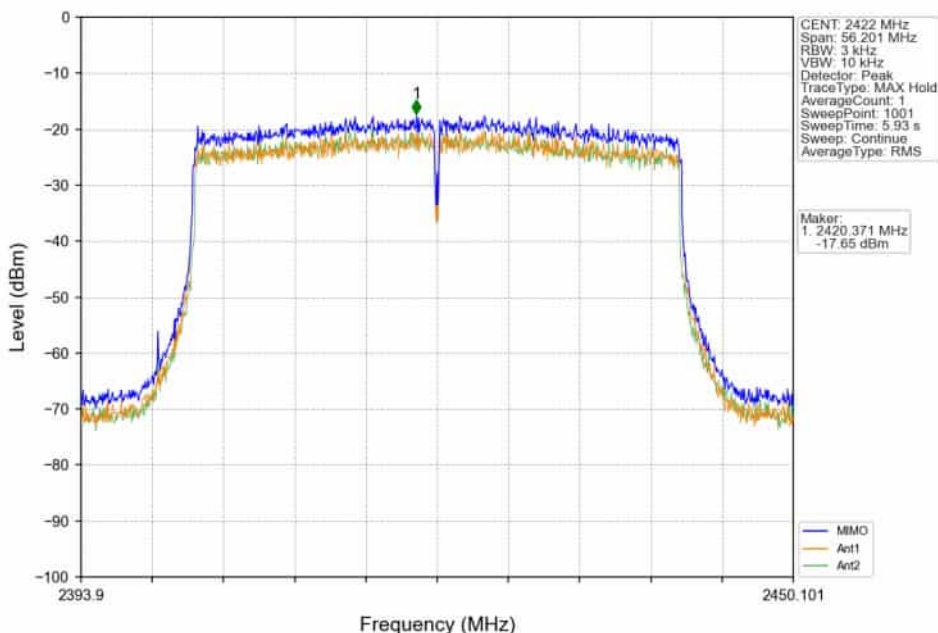


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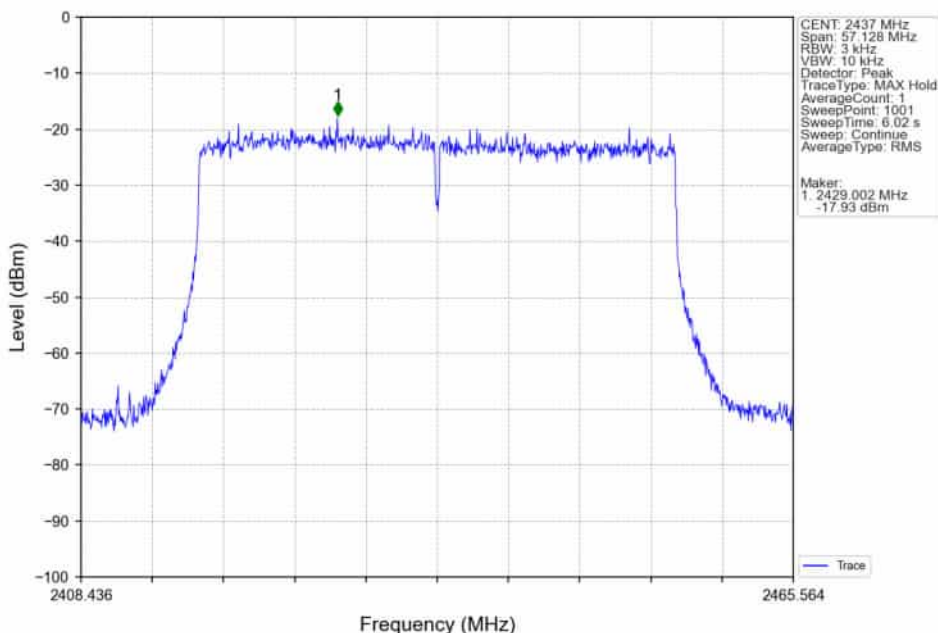


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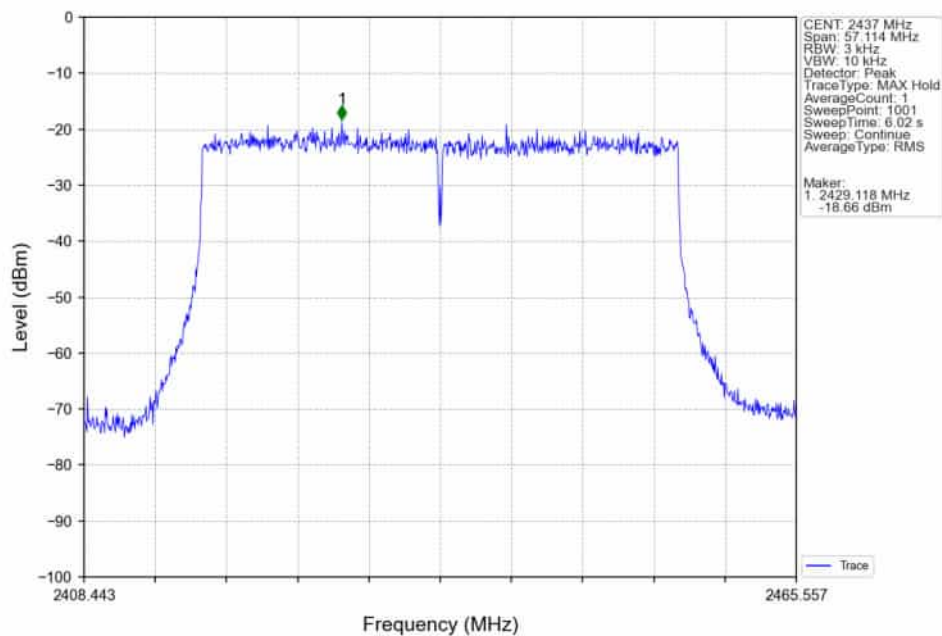


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802.11ax(HE40)_MCH_2437MHz_RU484_Left_Ant2 (MIMO)_NTNV

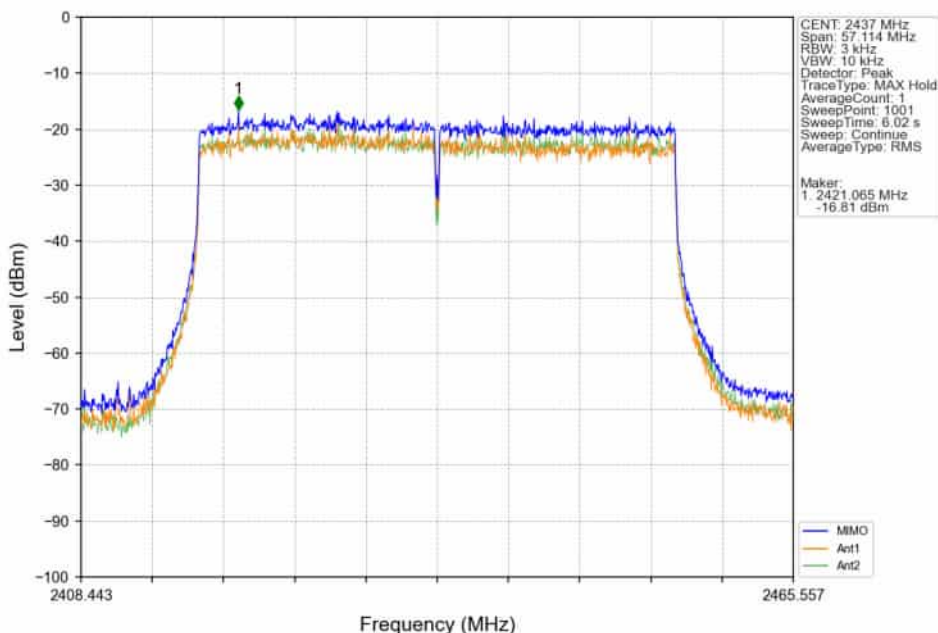


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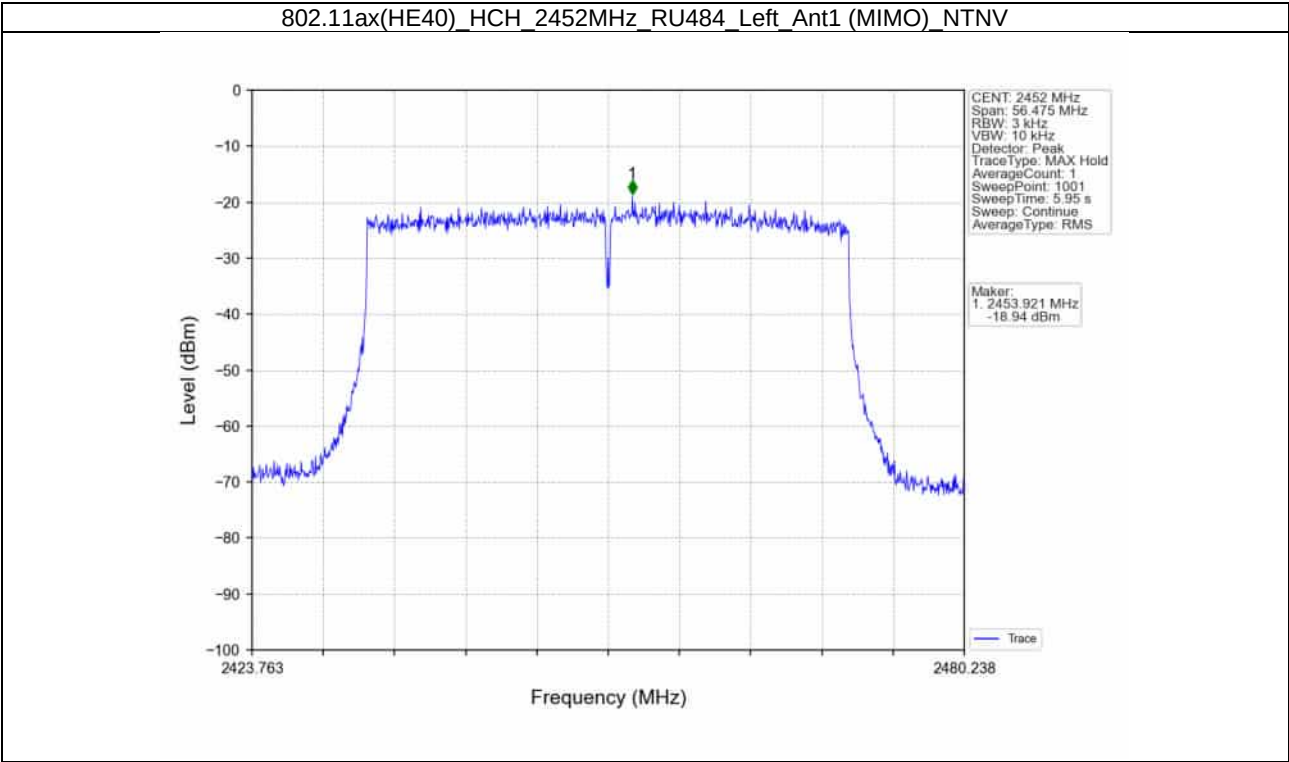
802.11ax(HE40)_MCH_2437MHz_RU484_Left_MIMO_NTNV



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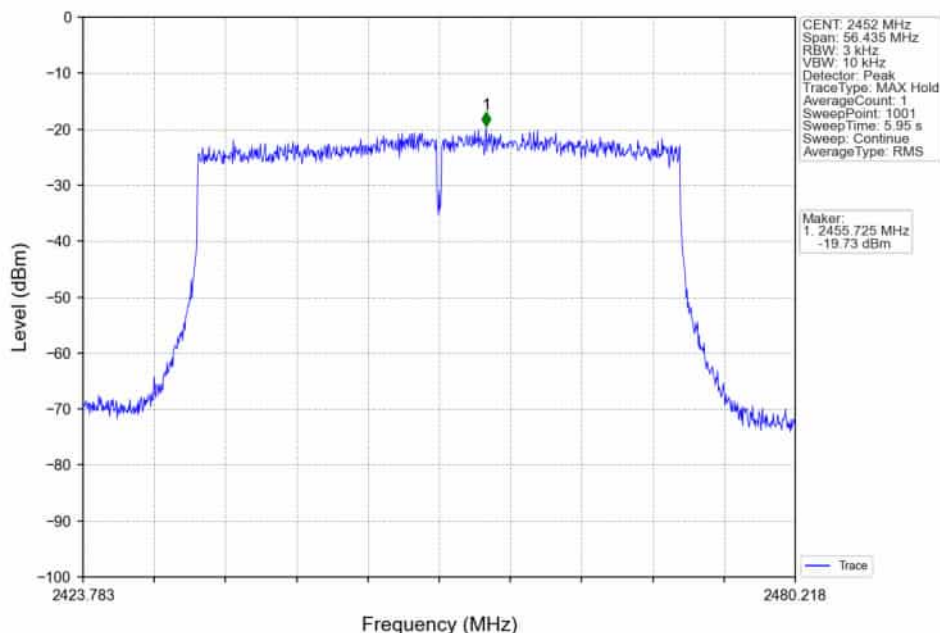


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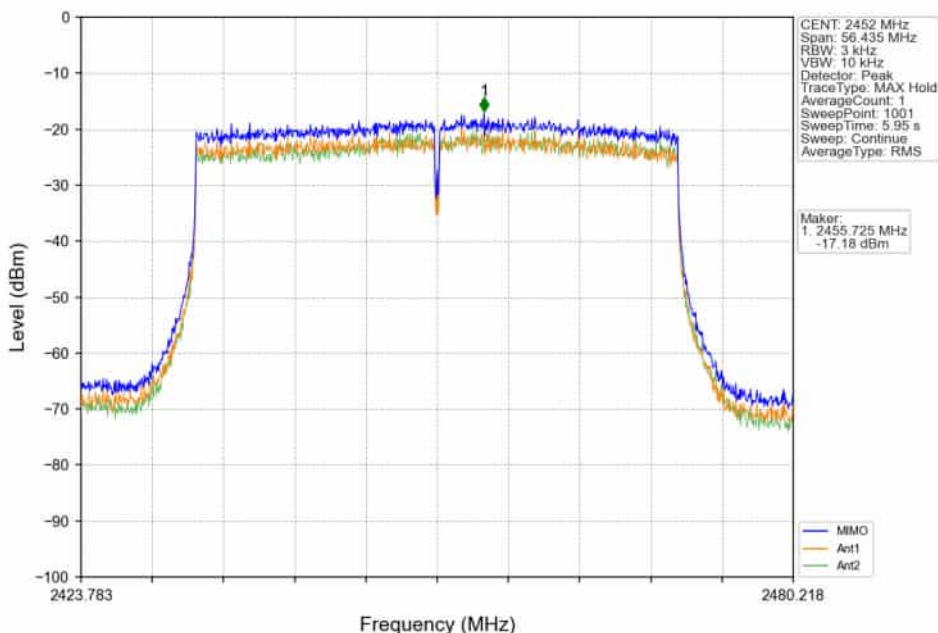


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802.11ax(HE40)_HCH_2452MHz_RU484_Left_MIMO_NTNV



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	MIMO	2412	/	/	1	2.38
					2	2.55
		2437	/	/	1	1.84
					2	1.60
		2462	/	/	1	1.81
					2	2.30
802.11g	MIMO	2412	/	/	1	-1.04
					2	-0.69
		2437	/	/	1	-1.27
					2	-1.35
		2462	/	/	1	-1.42
					2	-1.25
802.11ax (HE20)	MIMO	2412	RU242	Left	1	-1.05
					2	-0.64
		2437	RU242	Left	1	-1.18
					2	-1.57
		2462	RU242	Left	1	-1.60
					2	-1.51
802.11ax (HE40)	MIMO	2422	RU484	Left	1	-4.14
					2	-4.41
		2437	RU484	Left	1	-4.61
					2	-4.60
		2452	RU484	Left	1	-4.39
					2	-4.59

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Remark:

For 802.11n HT20/ax HE20, 802.11n HT40/ax HE40 mode, the whole testing have assessed only 802.11ax HE20/40 by referring to their higher output power.

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5.1.2 CSE

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	MIMO	2412	/	/	1	2.38	-27.62	Pass
					2	2.55	-27.45	Pass
		2437	/	/	1	2.38	-27.62	Pass
					2	2.55	-27.45	Pass
		2462	/	/	1	2.38	-27.62	Pass
					2	2.55	-27.45	Pass
802.11g	MIMO	2412	/	/	1	-1.04	-31.04	Pass
					2	-0.69	-30.69	Pass
		2437	/	/	1	-1.04	-31.04	Pass
					2	-0.69	-30.69	Pass
		2462	/	/	1	-1.04	-31.04	Pass
					2	-0.69	-30.69	Pass
802.11ax (HE20)	MIMO	2412	RU242	Left	1	-1.05	-31.05	Pass
					2	-0.64	-30.64	Pass
		2437	RU242	Left	1	-1.05	-31.05	Pass
					2	-0.64	-30.64	Pass
		2462	RU242	Left	1	-1.05	-31.05	Pass
					2	-0.64	-30.64	Pass
802.11ax (HE40)	MIMO	2422	RU484	Left	1	-4.14	-34.14	Pass
					2	-4.41	-34.41	Pass
		2437	RU484	Left	1	-4.14	-34.14	Pass
					2	-4.41	-34.41	Pass
		2452	RU484	Left	1	-4.14	-34.14	Pass
					2	-4.41	-34.41	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Remark:

For 802.11n HT20/ax HE20, 802.11n HT40/ax HE40 mode, the whole testing have assessed only 802.11ax HE20/40 by referring to their higher output power.

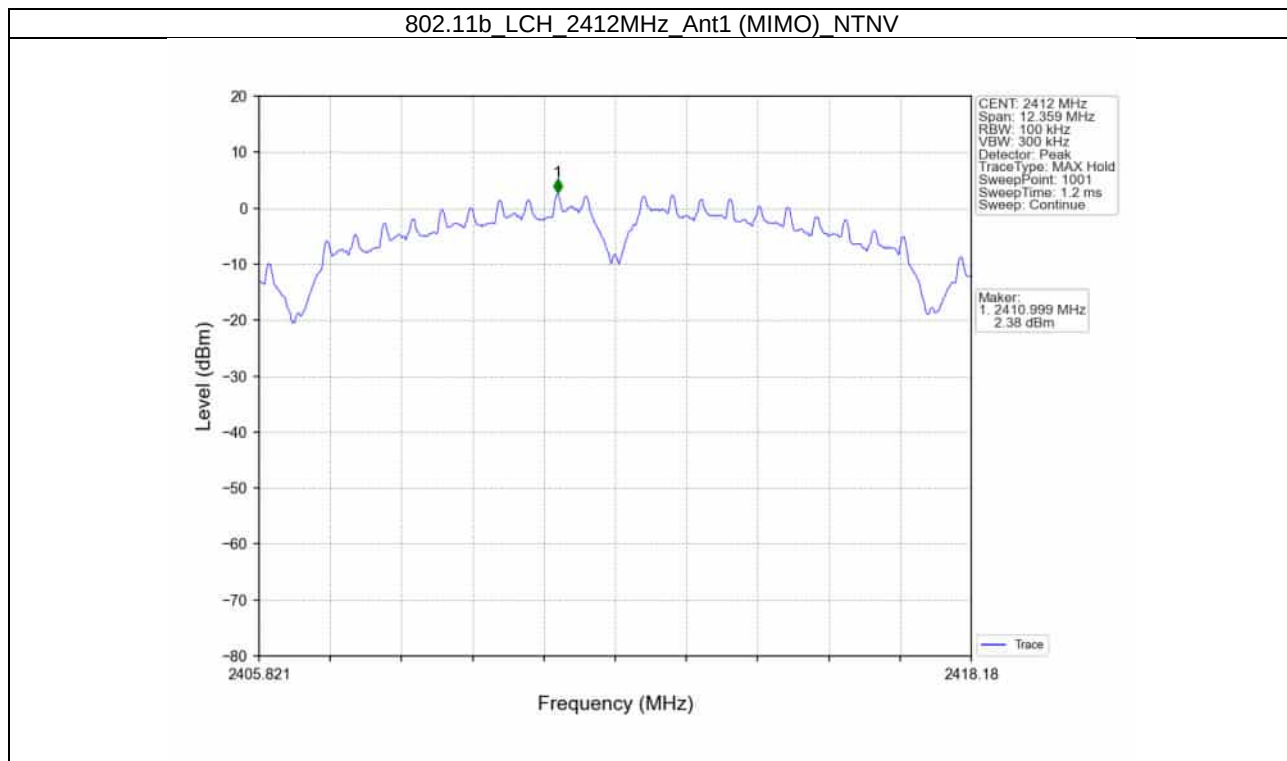
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5.2 Test Graph

5.2.1 Ref

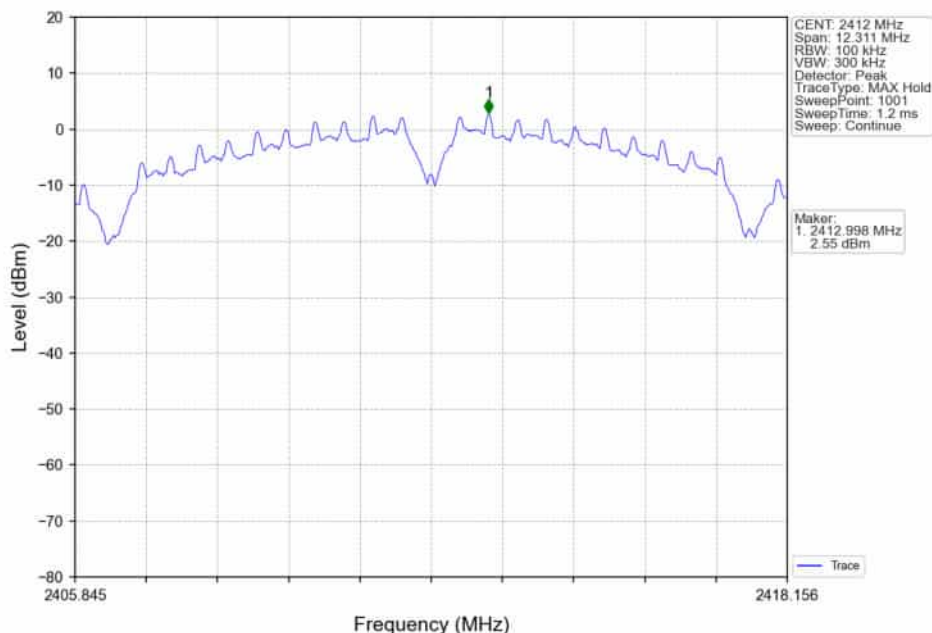


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802.11b_LCH_2412MHz_Ant2 (MIMO)_NTNV



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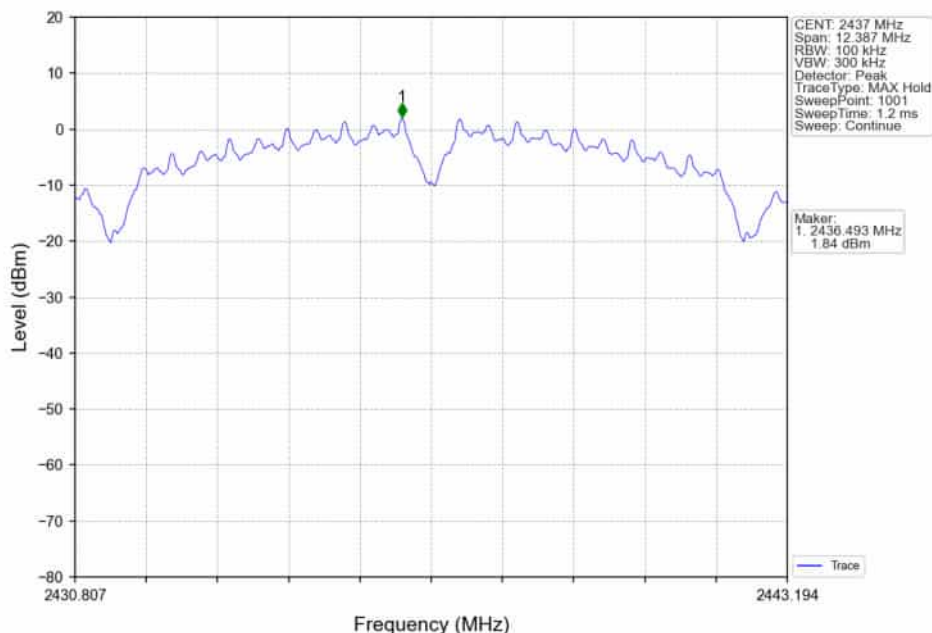
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802.11b_MCH_2437MHz_Ant1 (MIMO)_NTNV

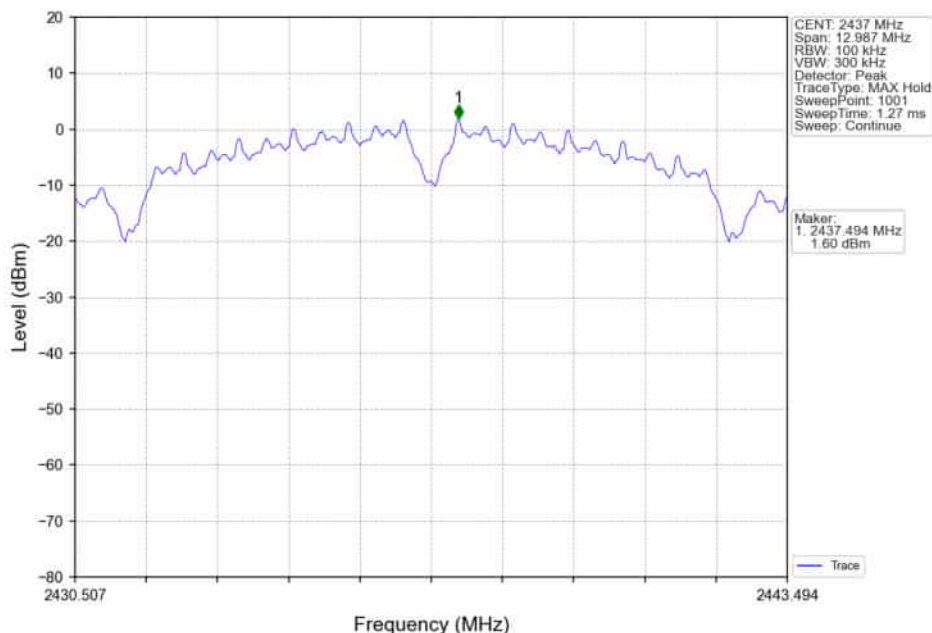


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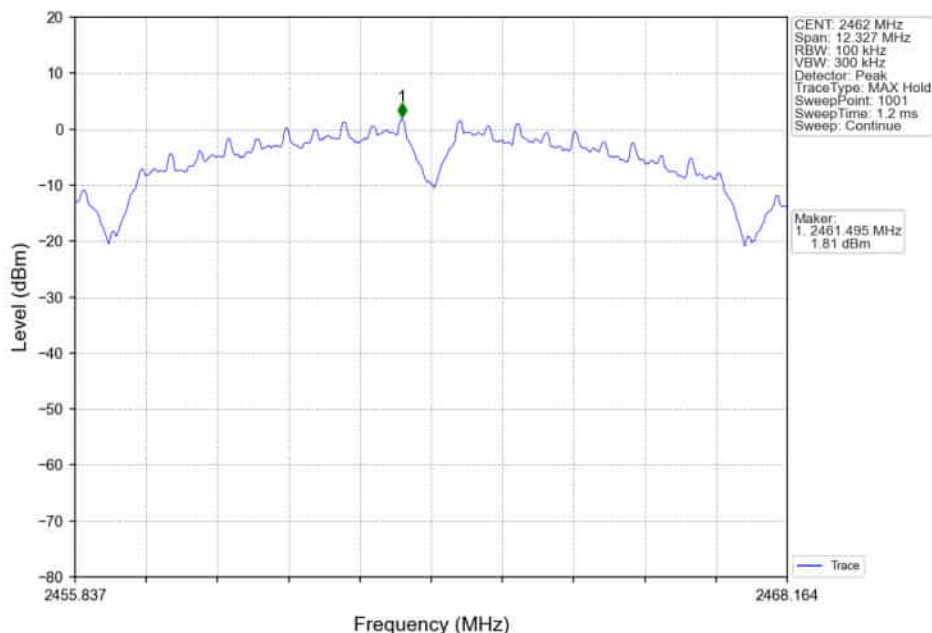


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802.11b_HCH_2462MHz_Ant1 (MIMO)_NTNV

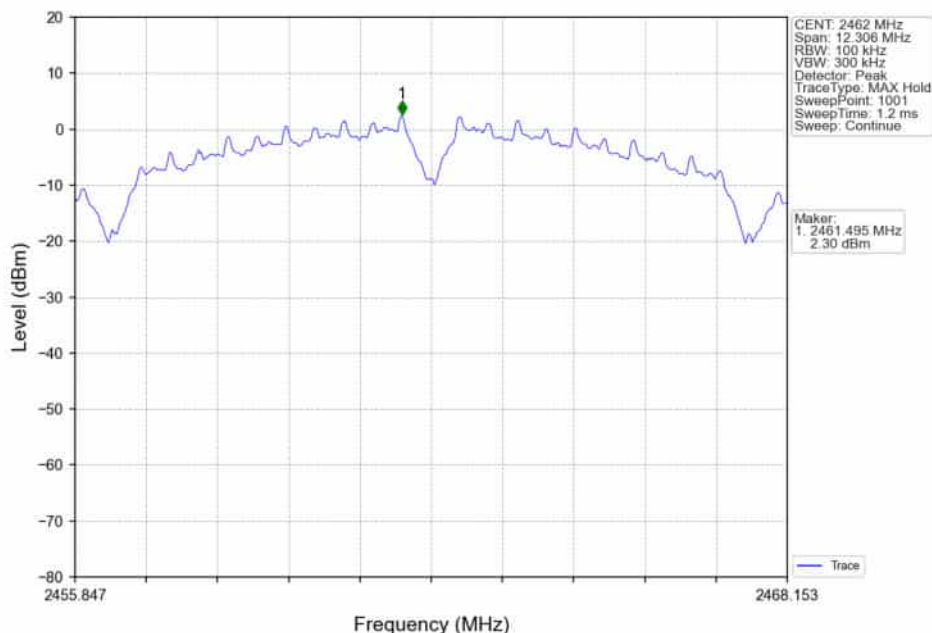


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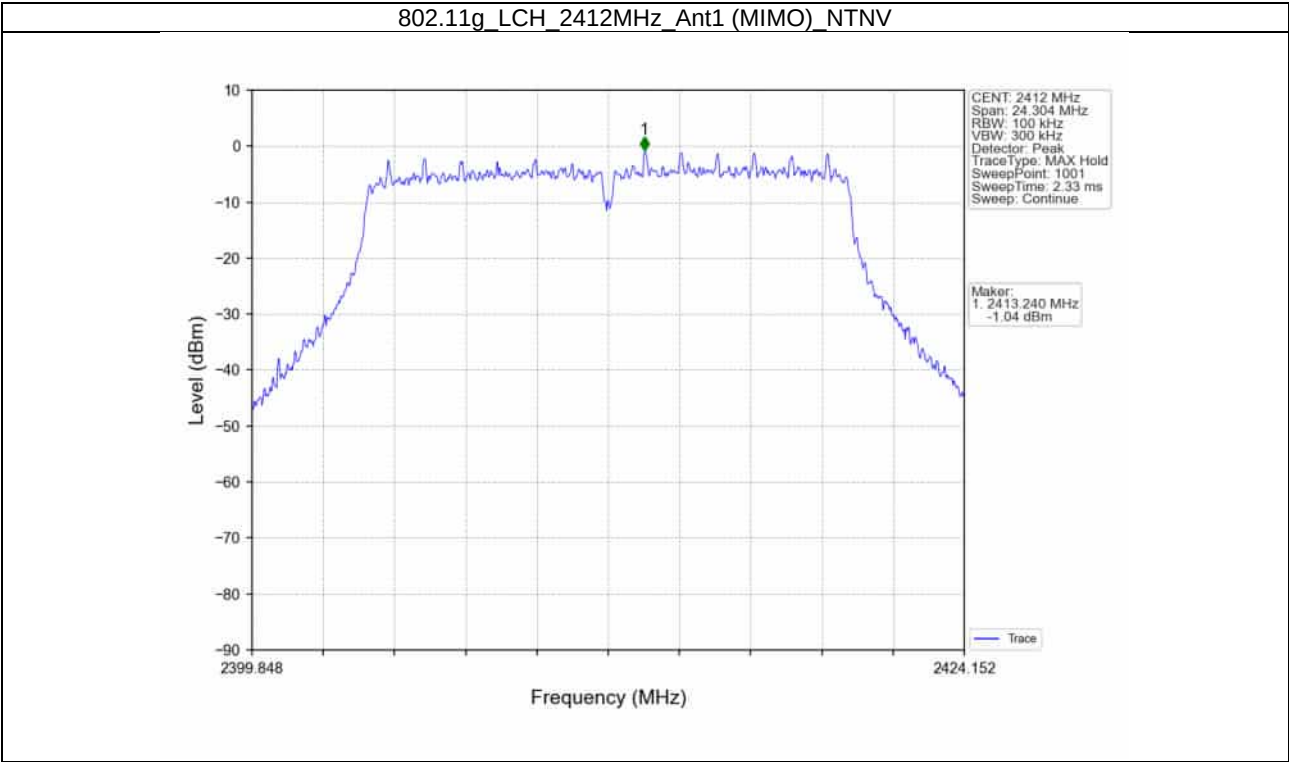


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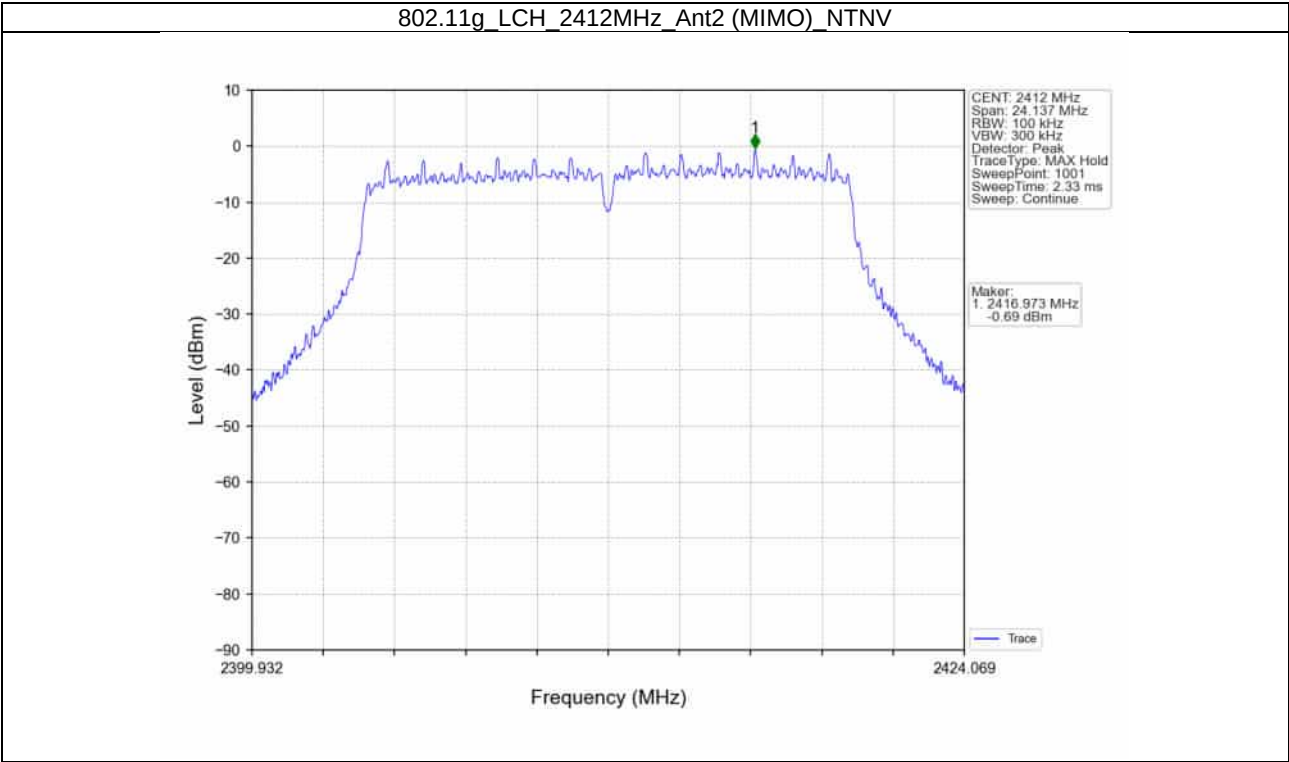
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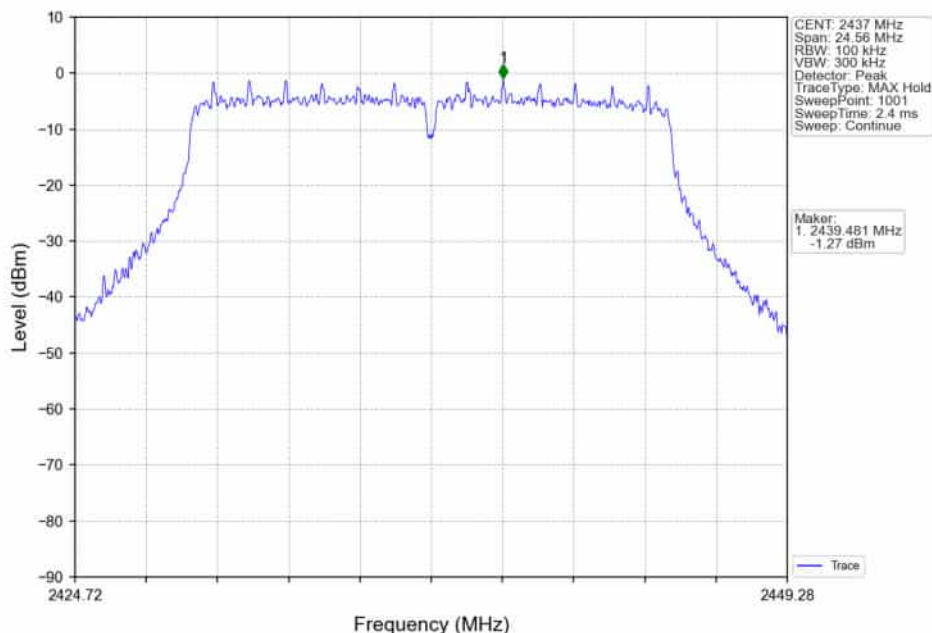


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802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV

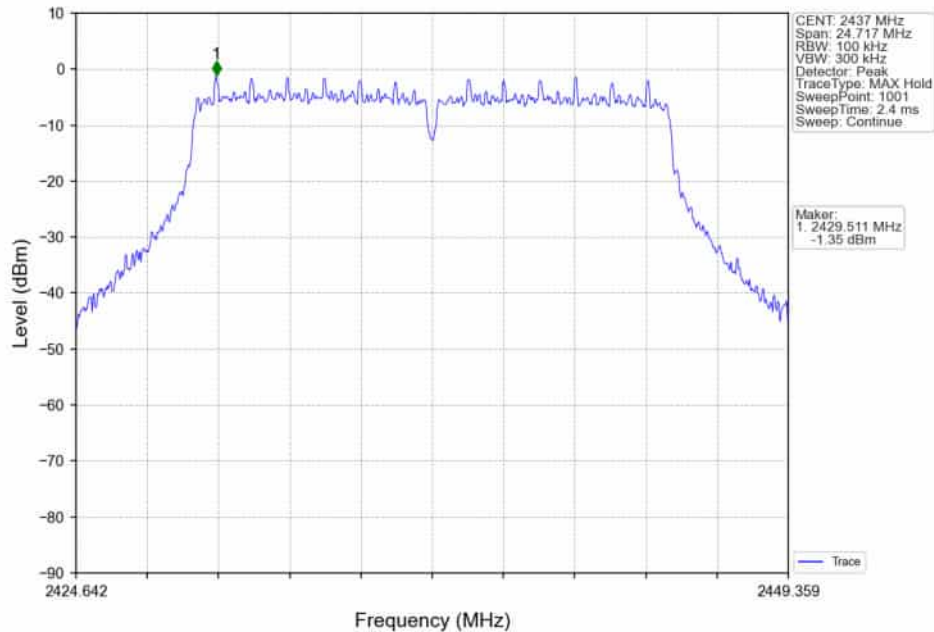


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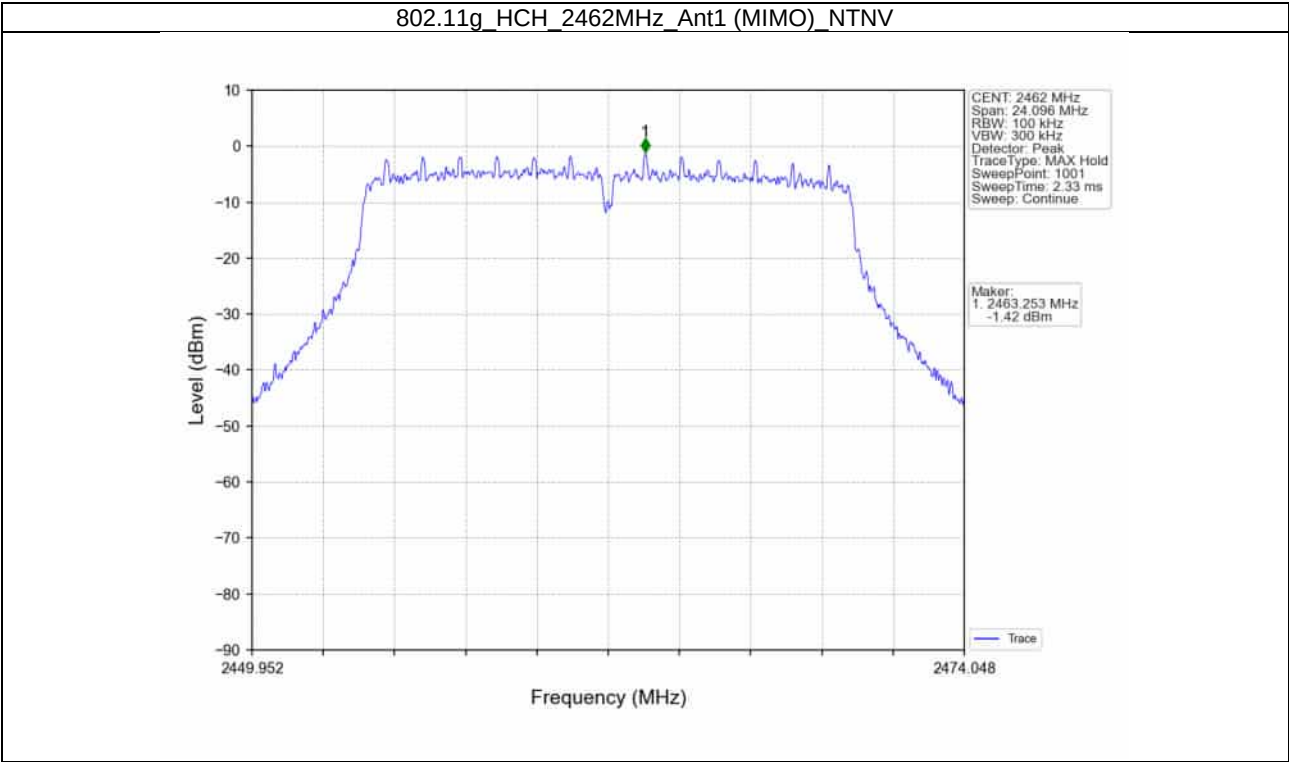
802.11g_MCH_2437MHz_Ant2 (MIMO)_NTNV



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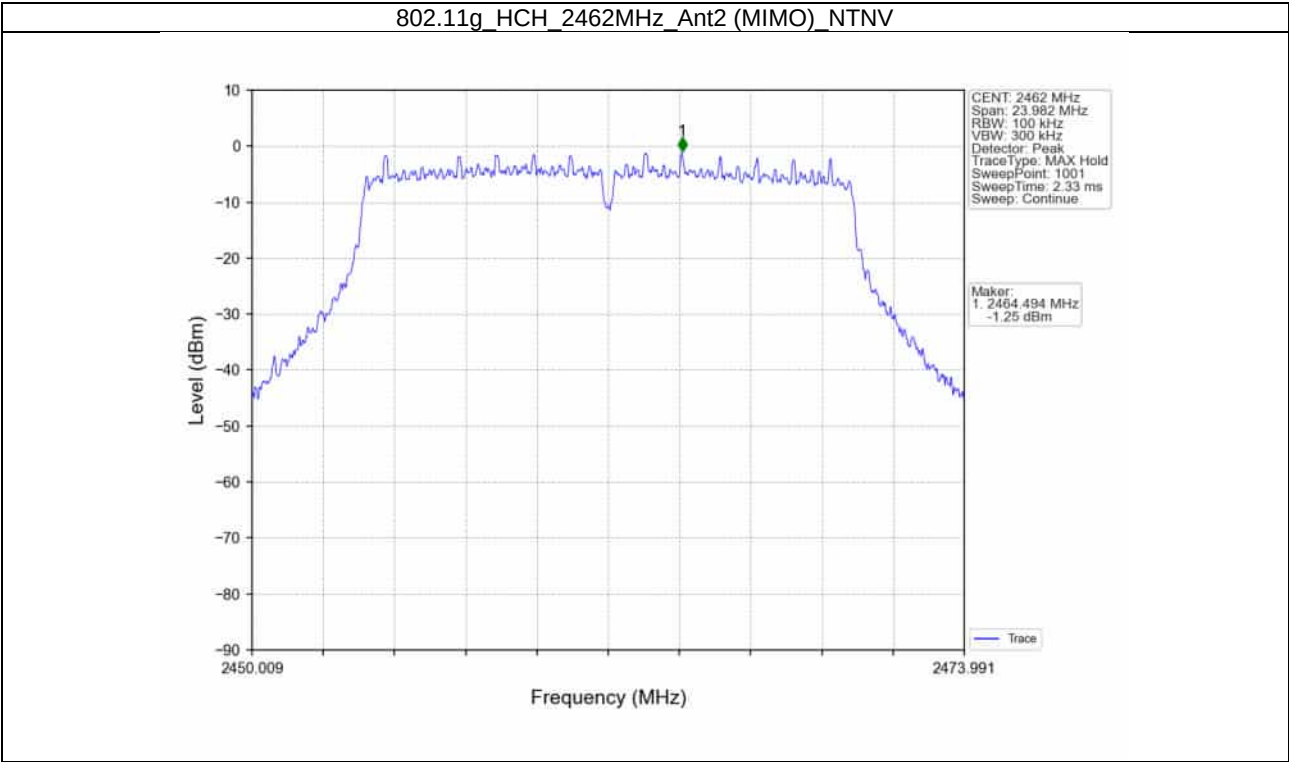


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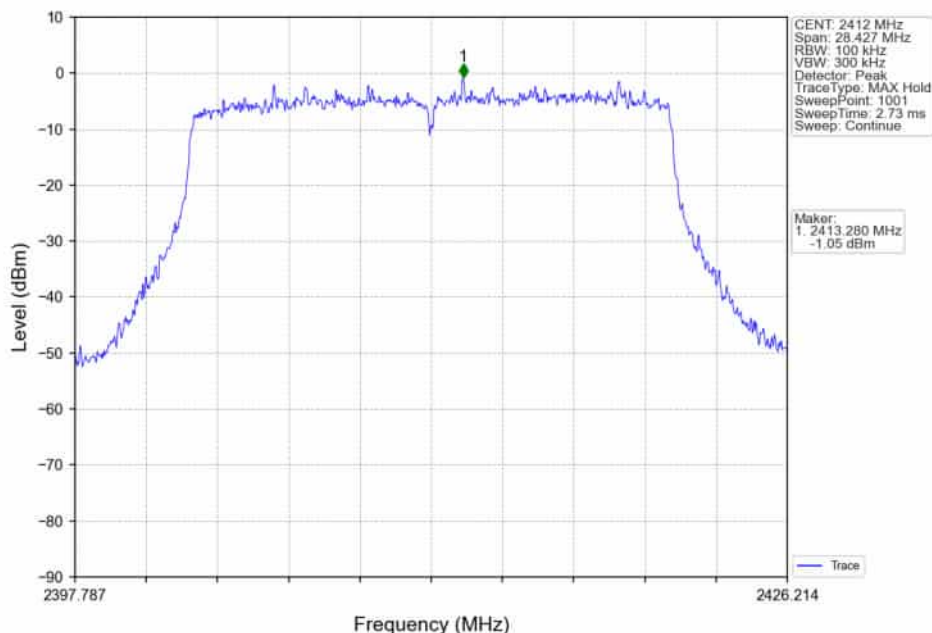


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802.11ax(HE20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV

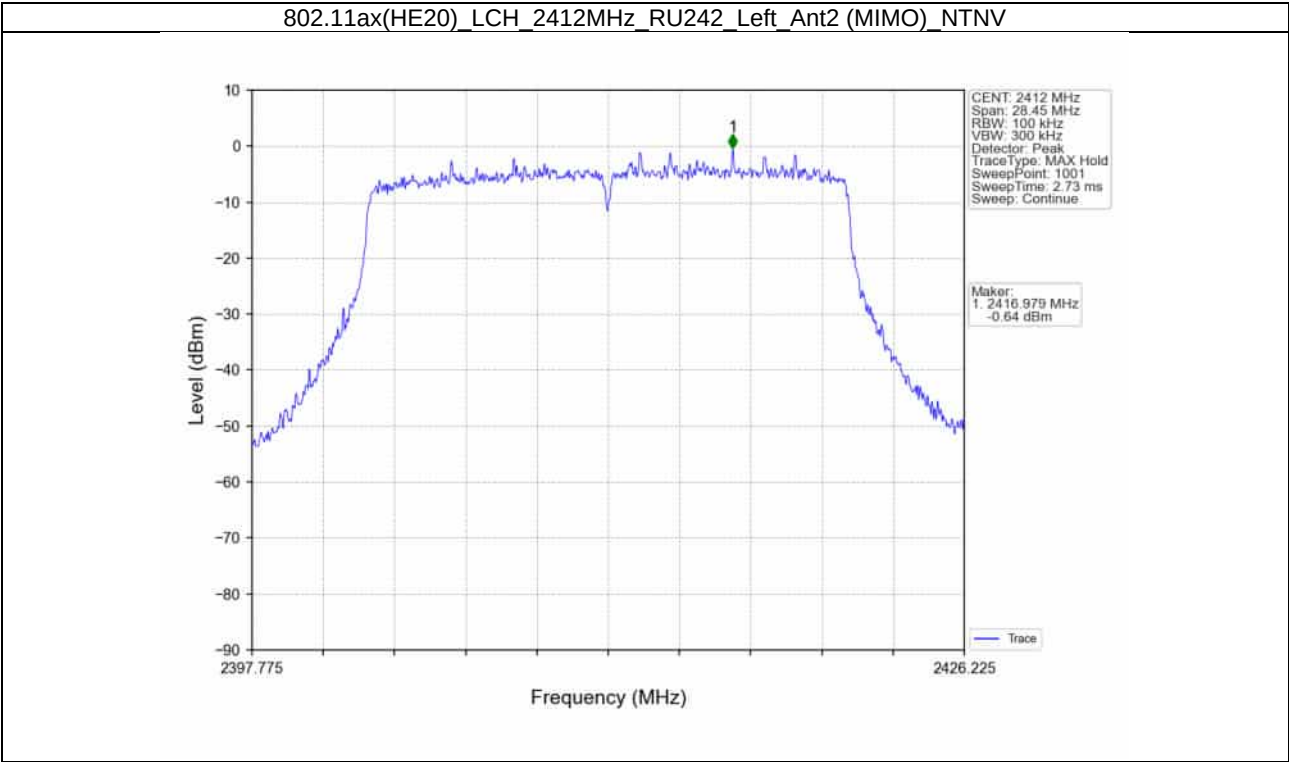


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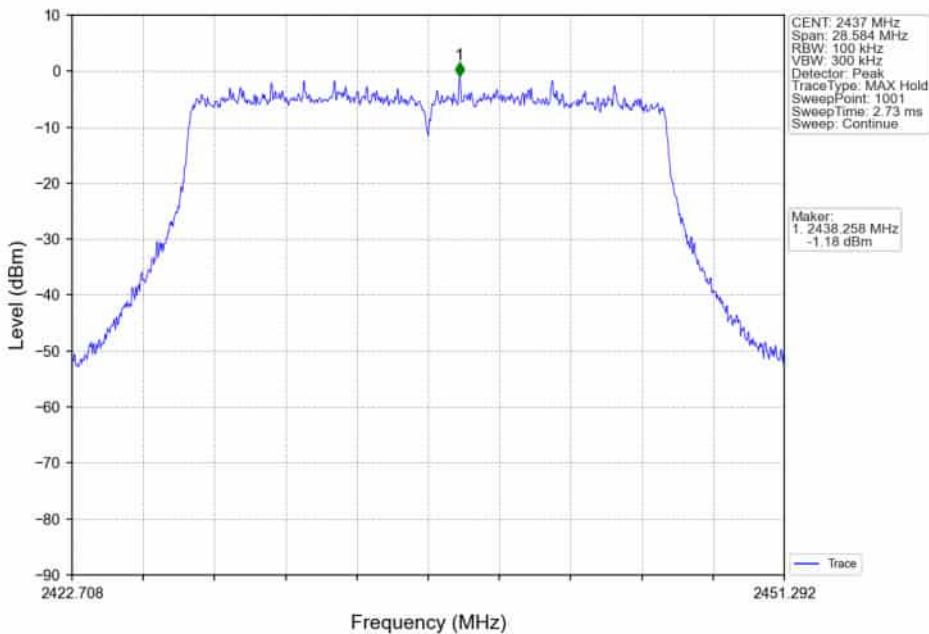


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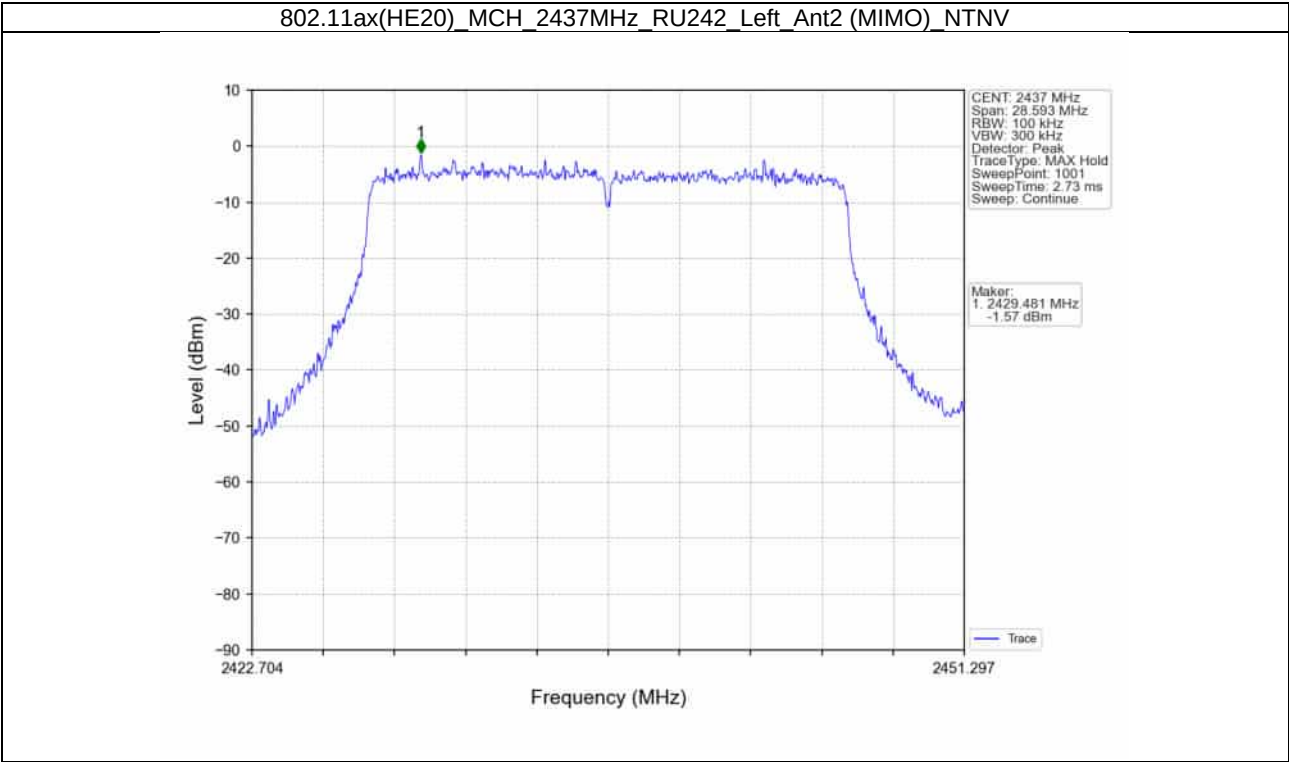
802.11ax(HE20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



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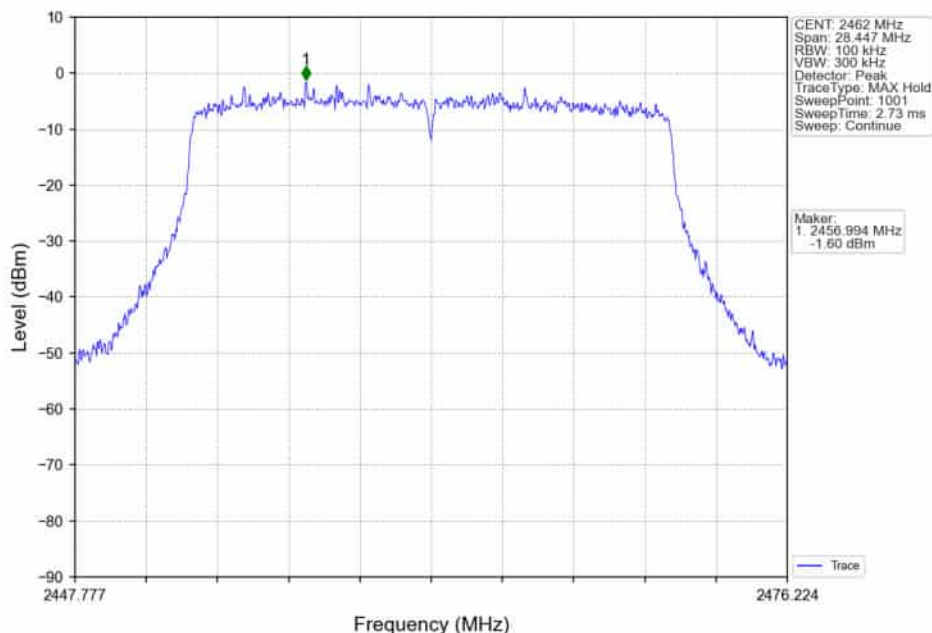


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802.11ax(HE20)_HCH_2462MHz_RU242_Left_Ant1(MIMO)_NTNV

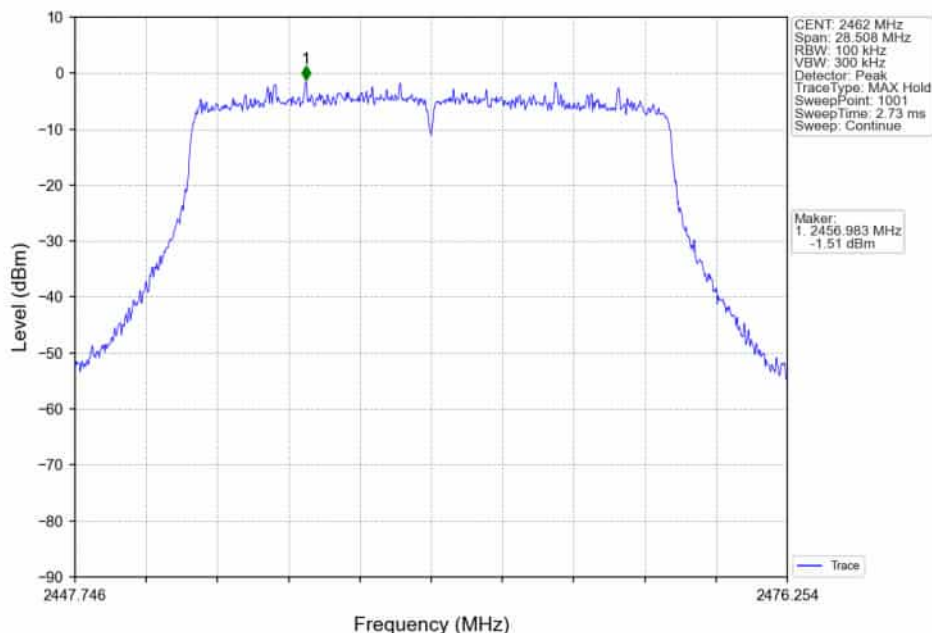


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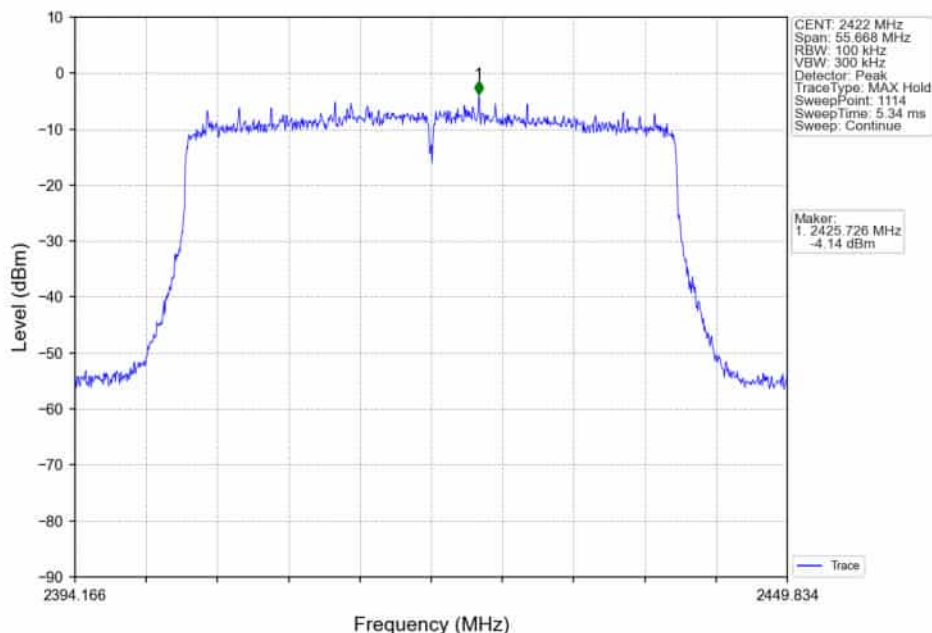


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802.11ax(HE40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV

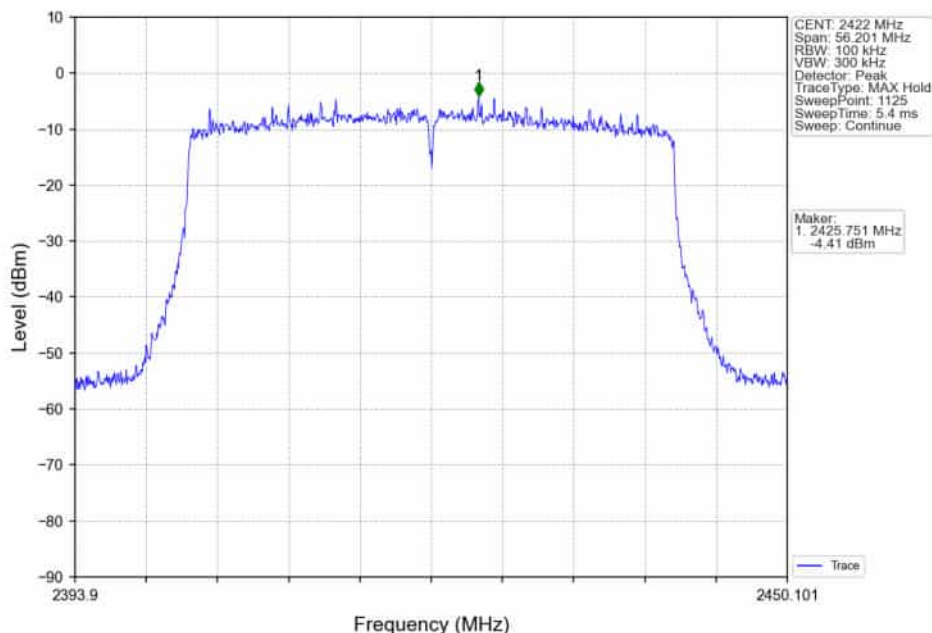


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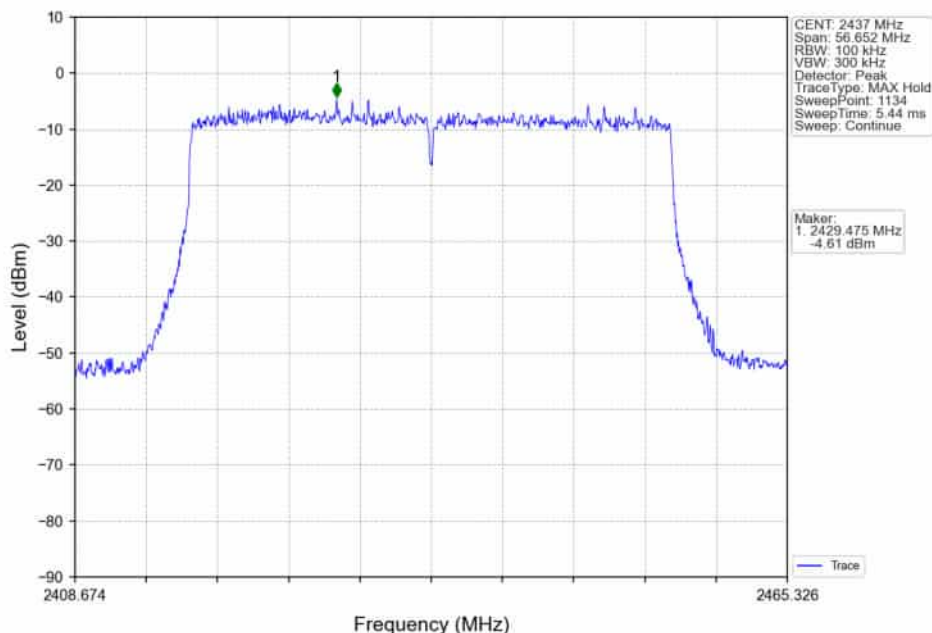


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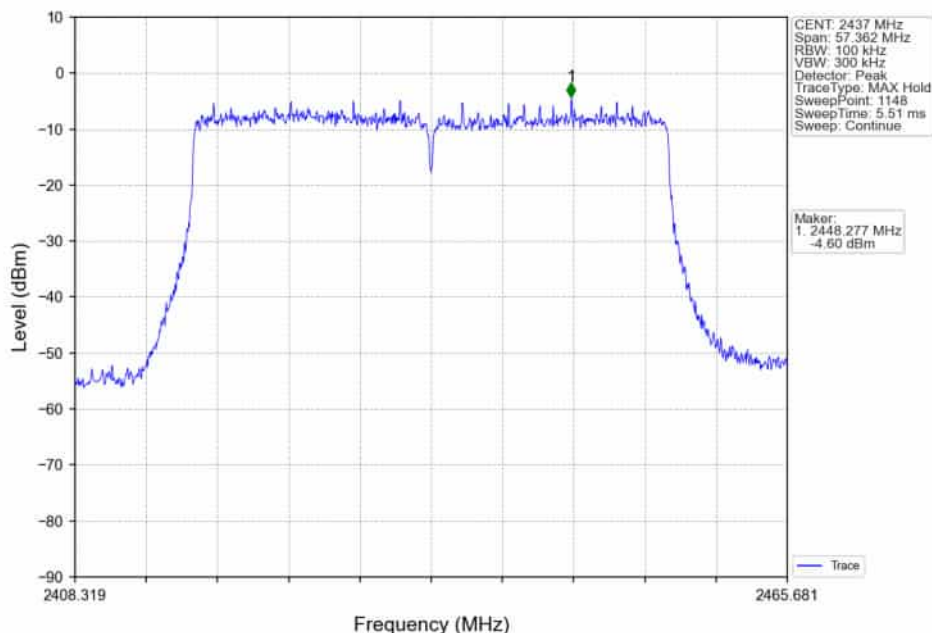


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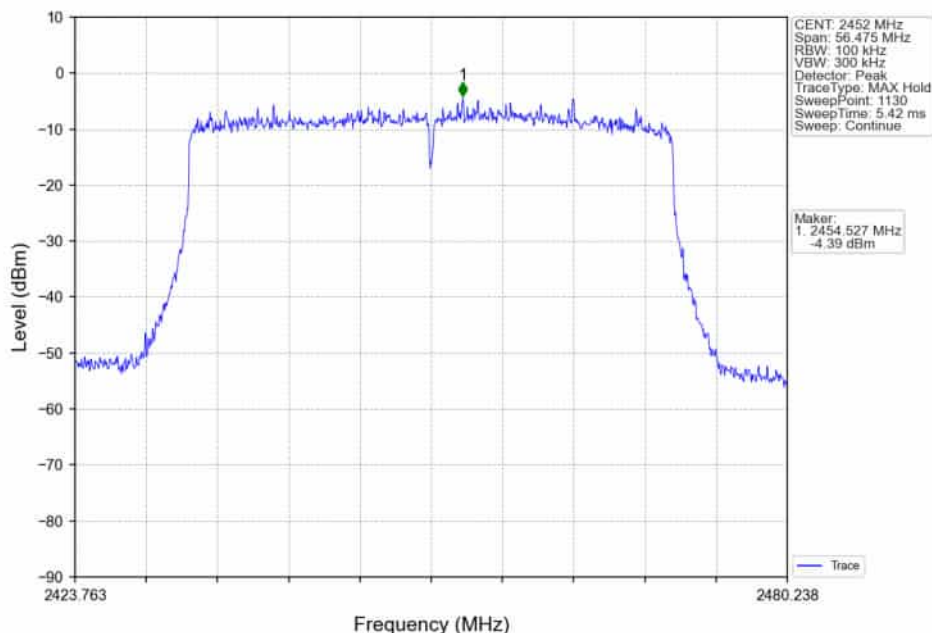


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802.11ax(HE40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV

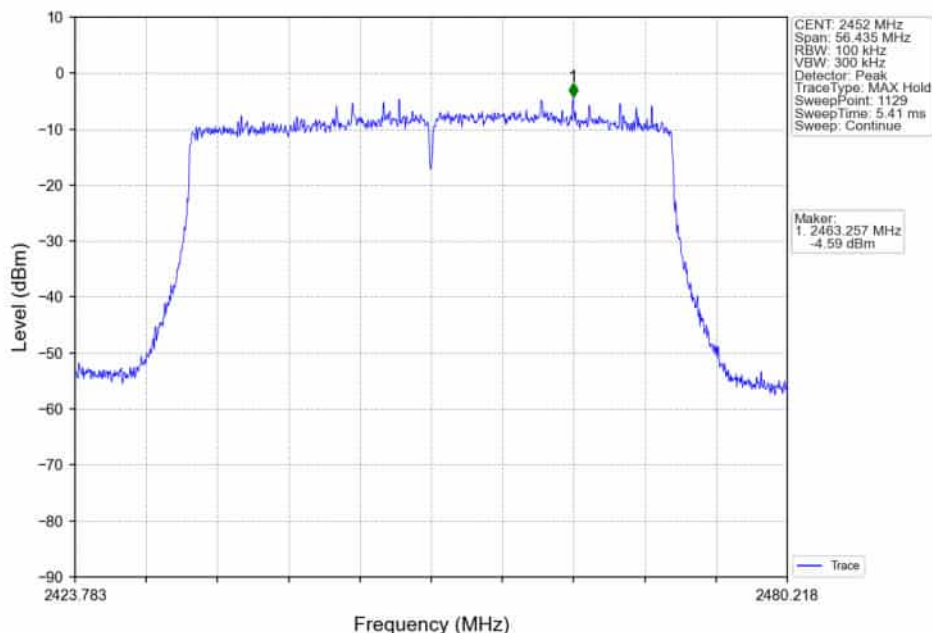


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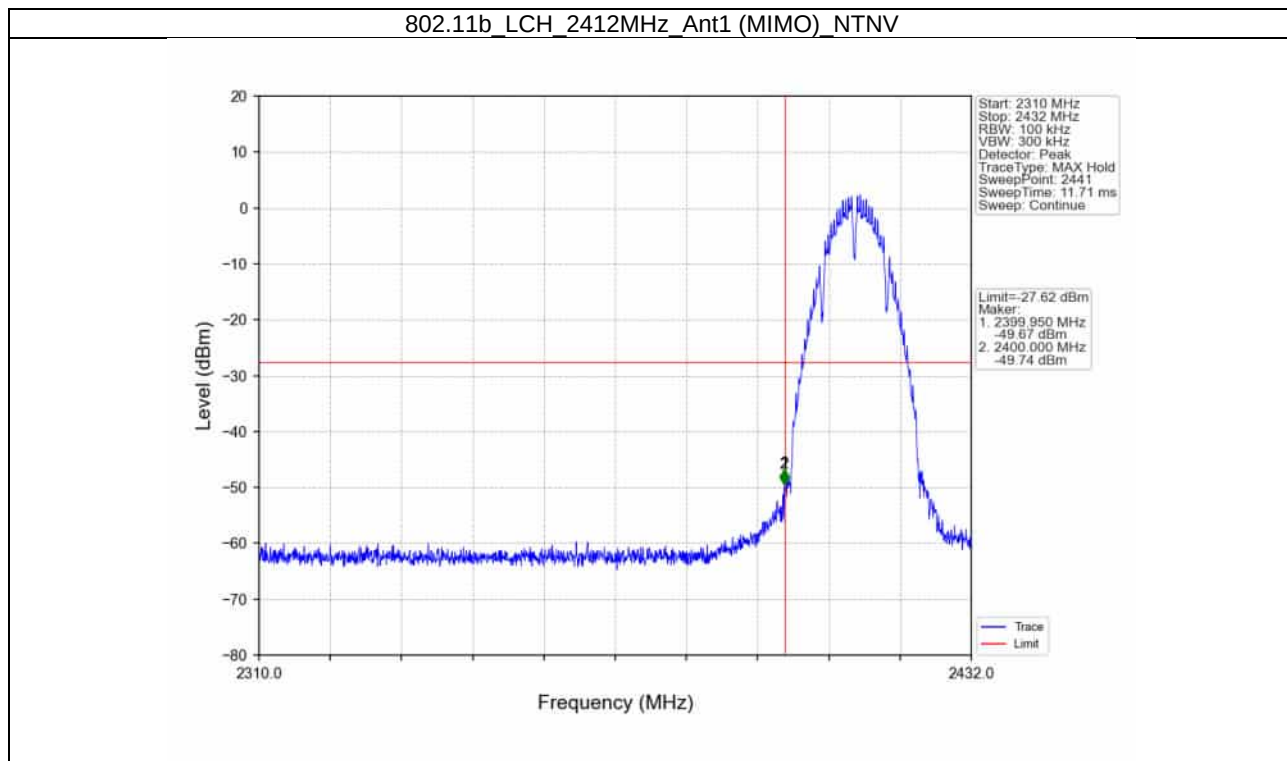


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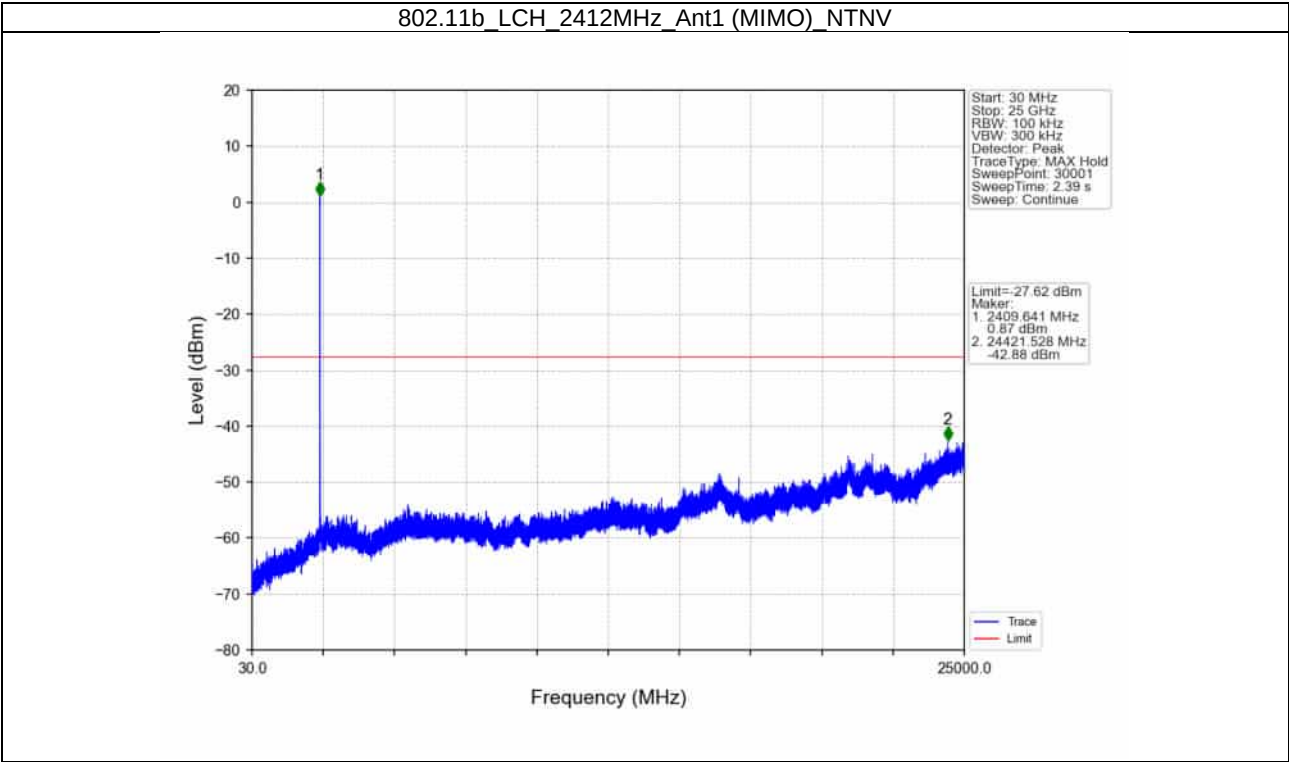


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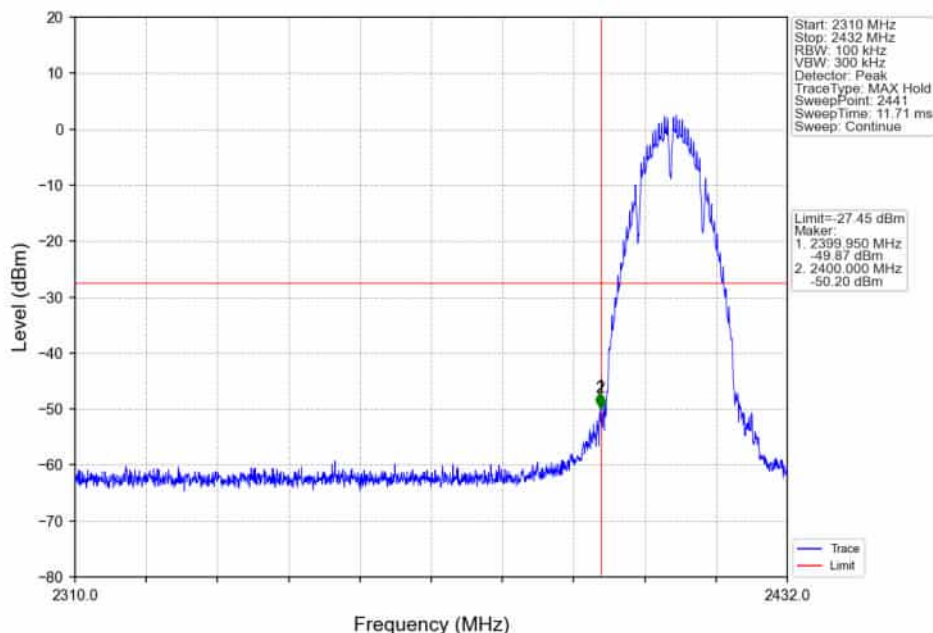


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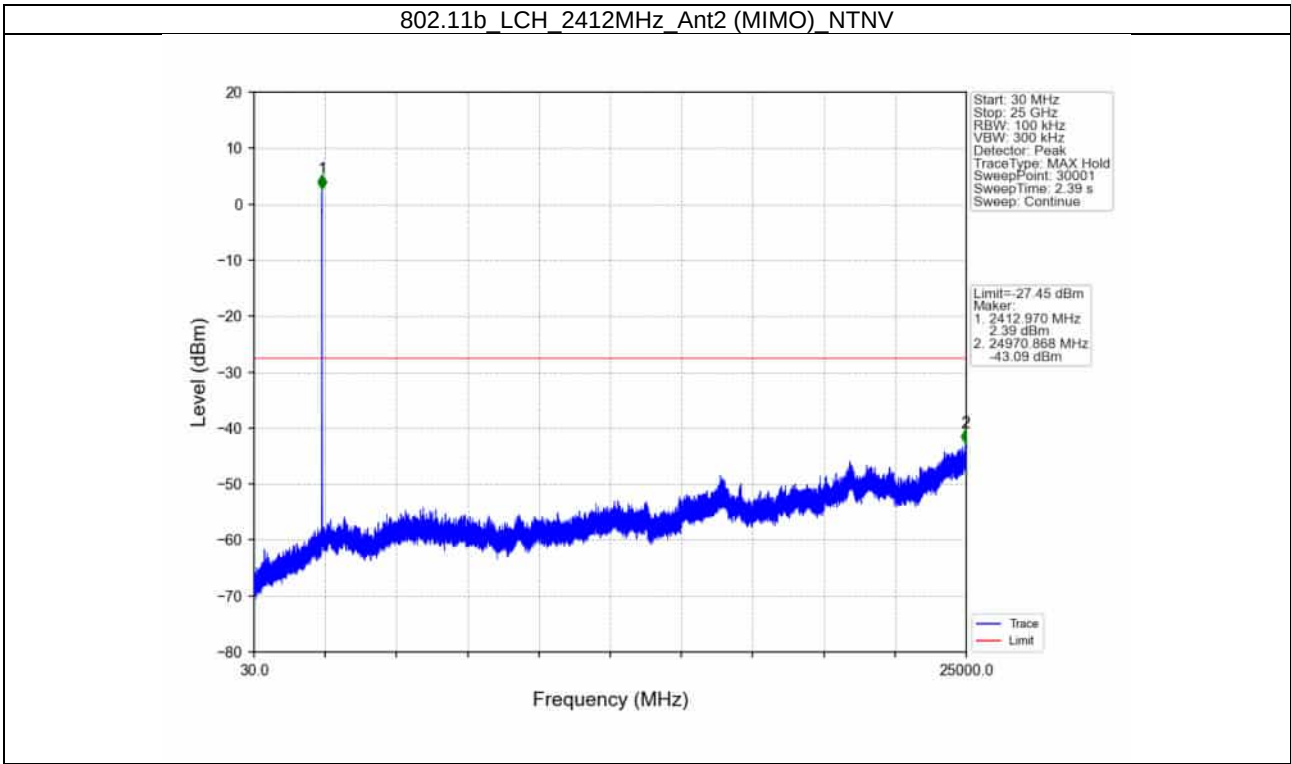
802.11b_LCH_2412MHz_Ant2 (MIMO)_NTNV



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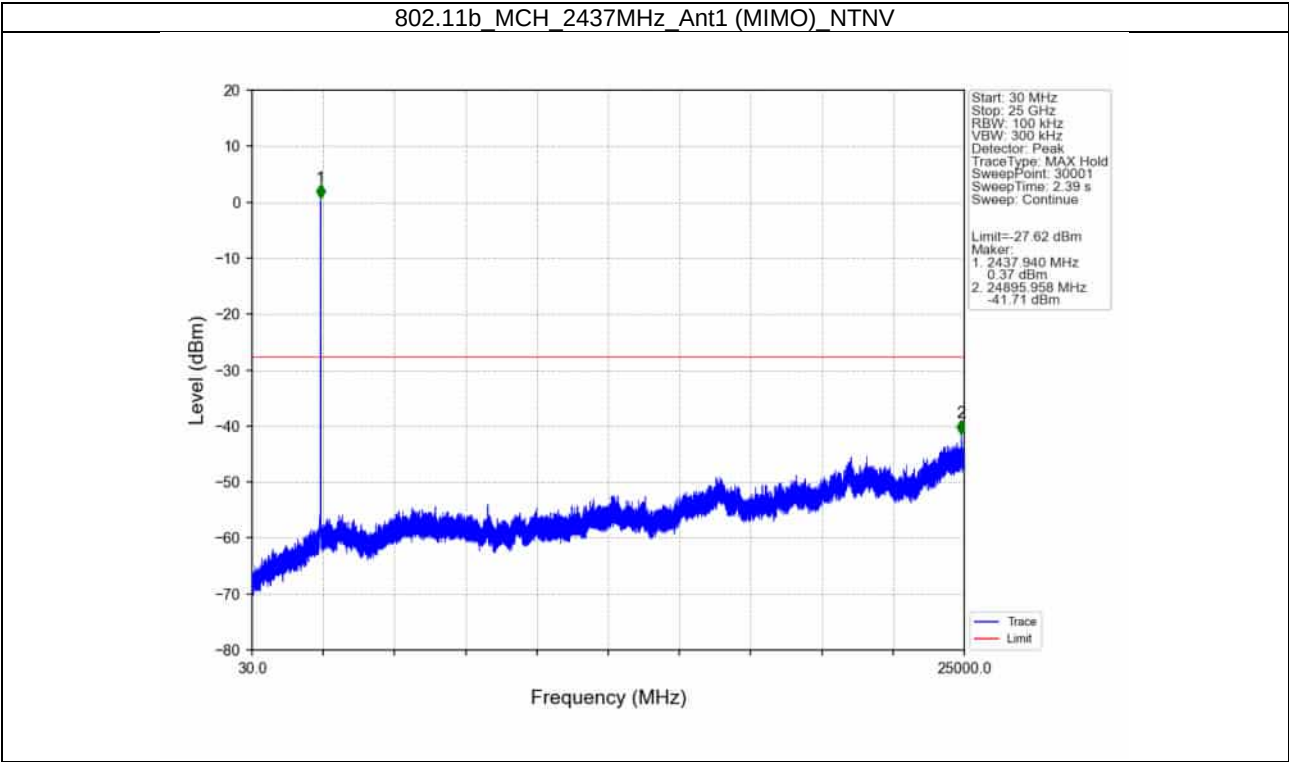
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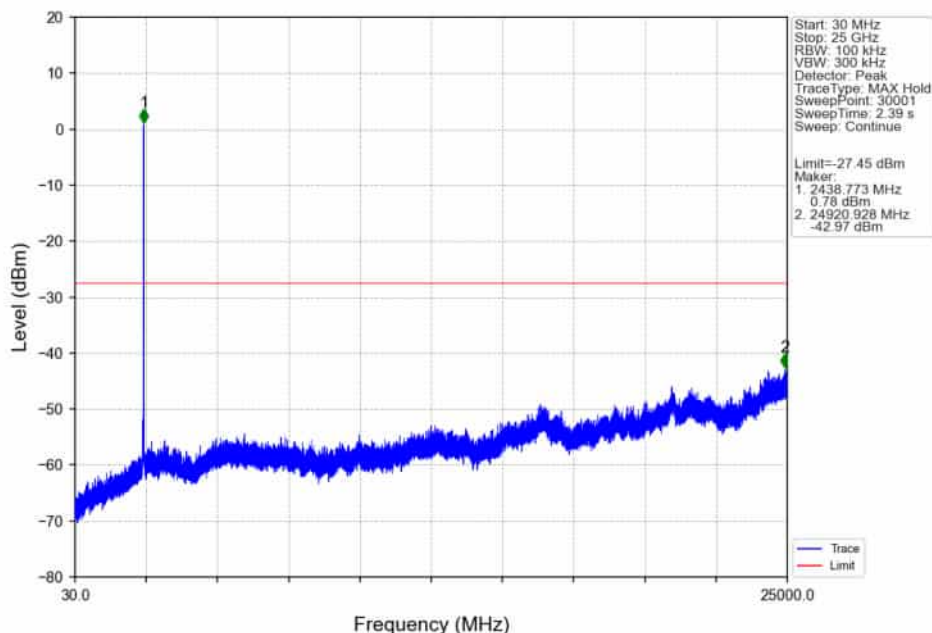


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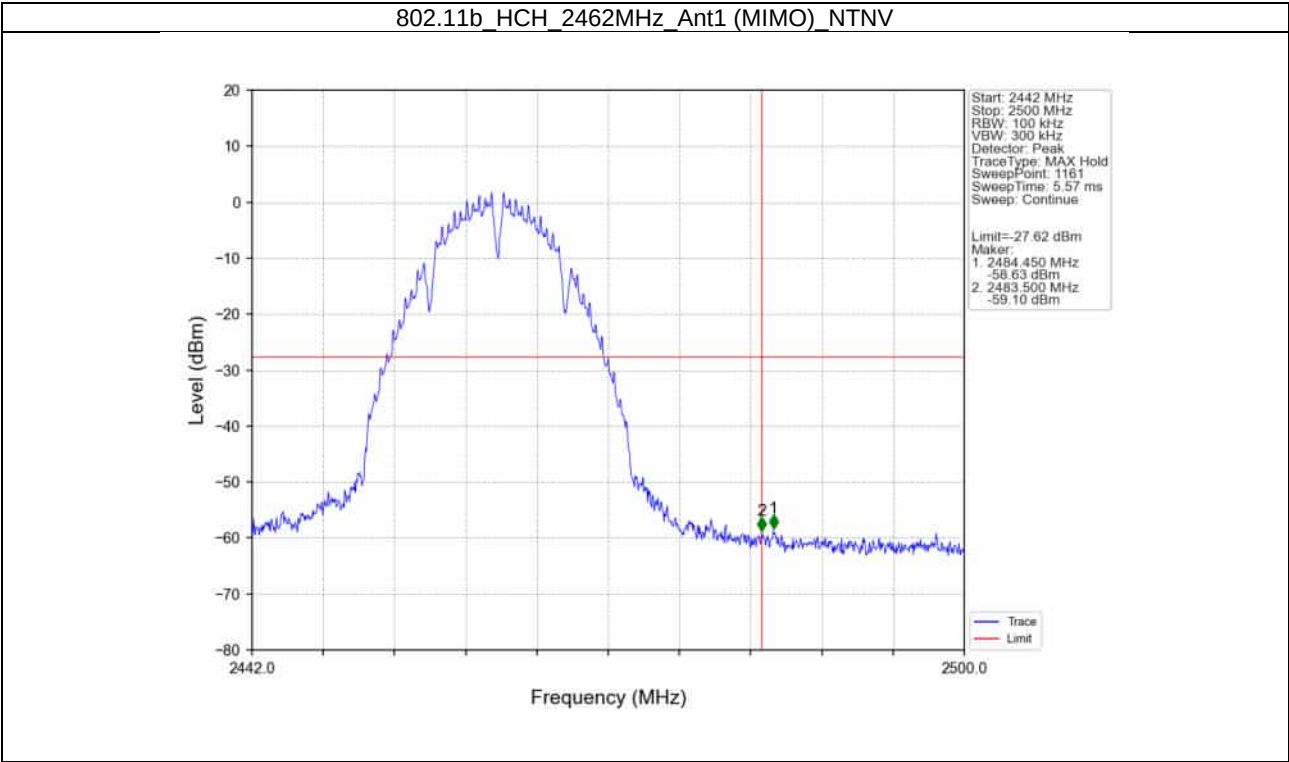
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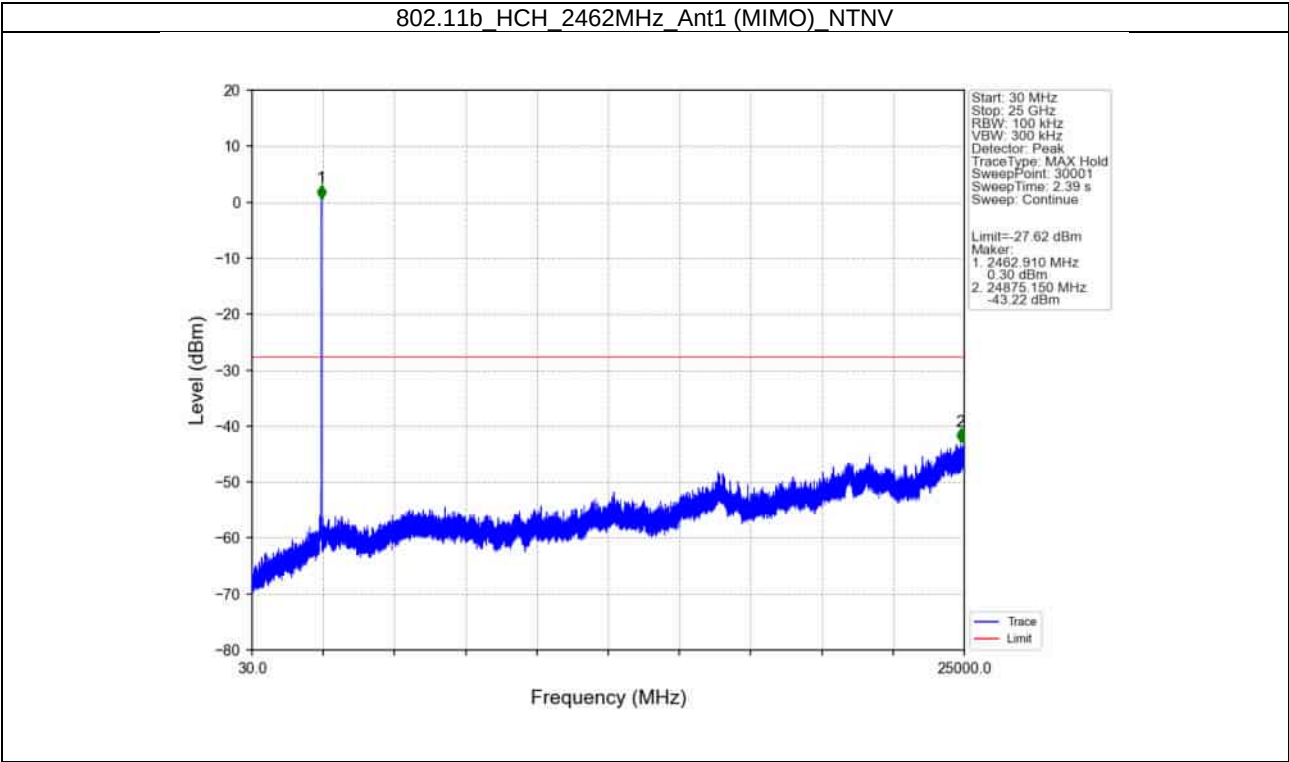
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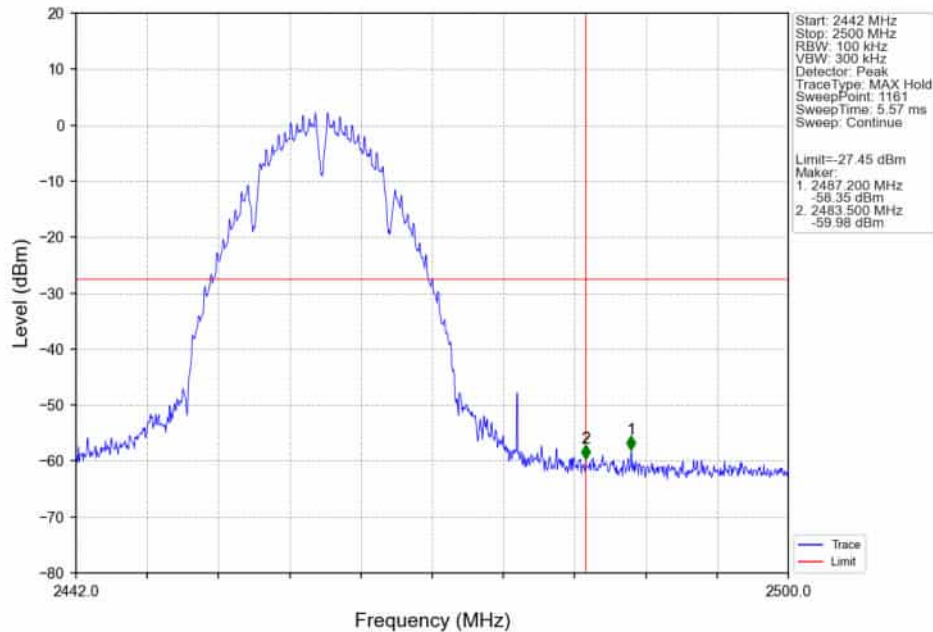


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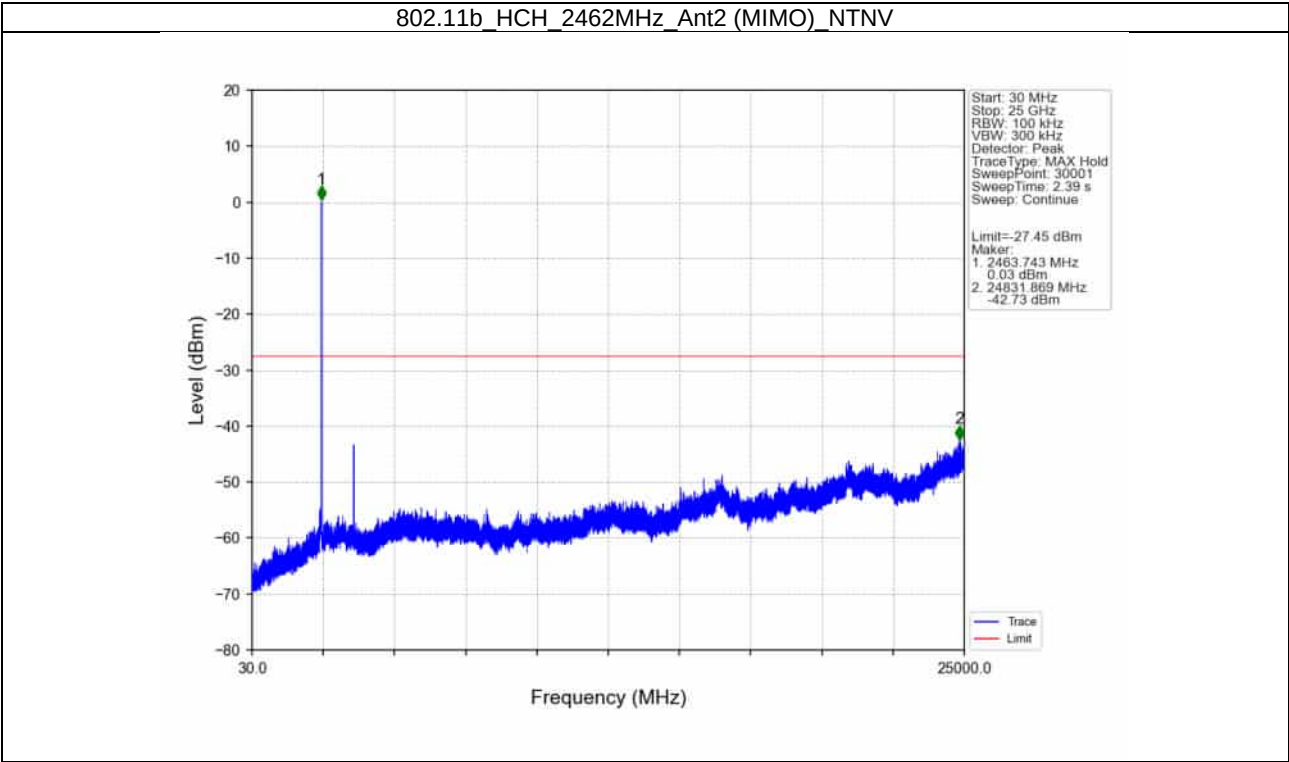
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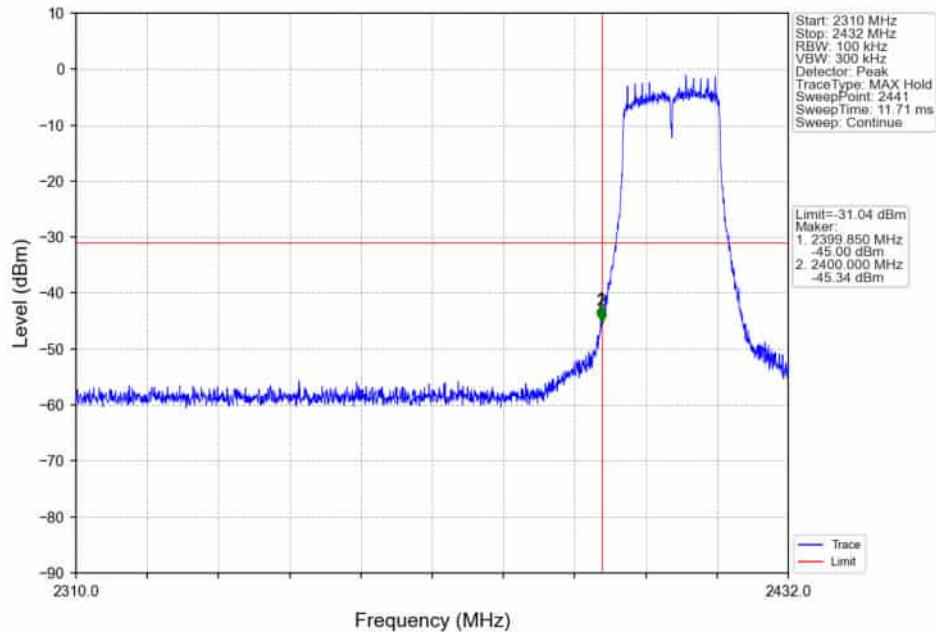


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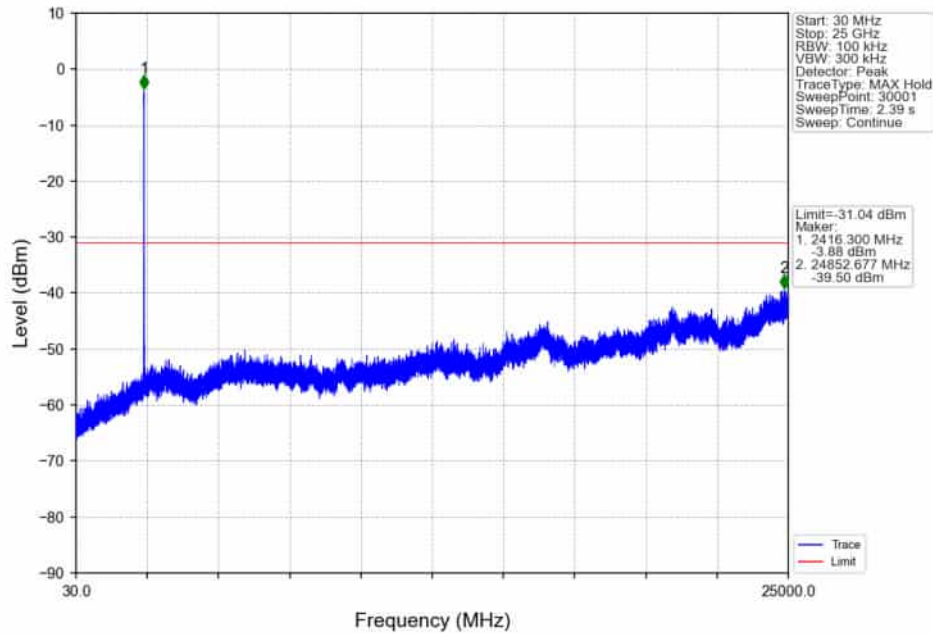


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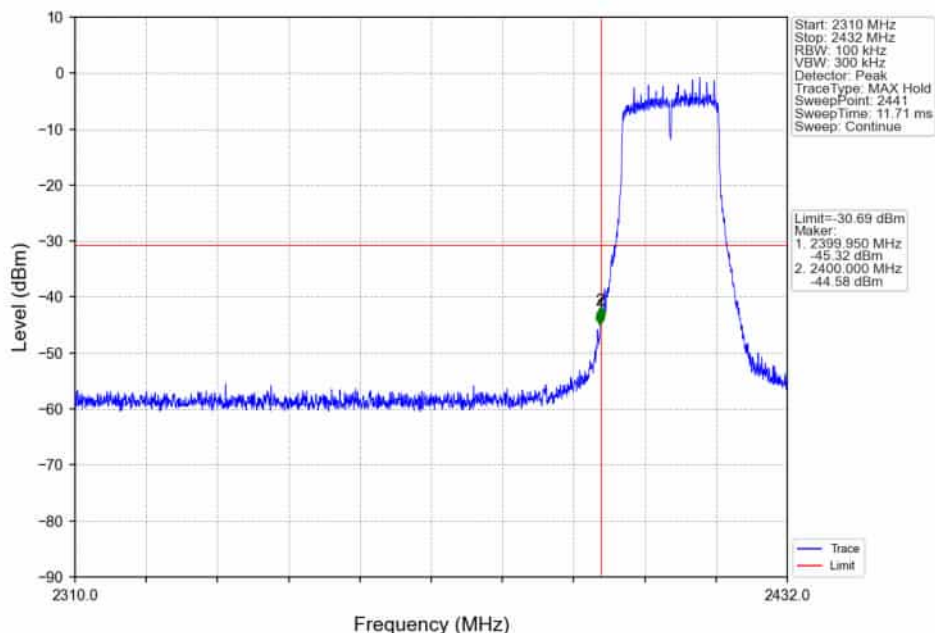
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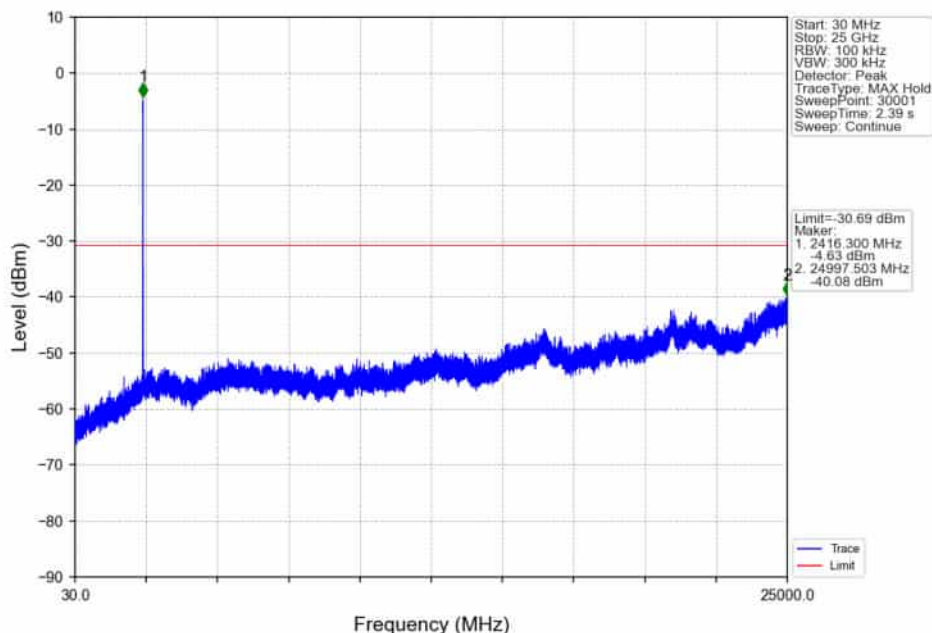


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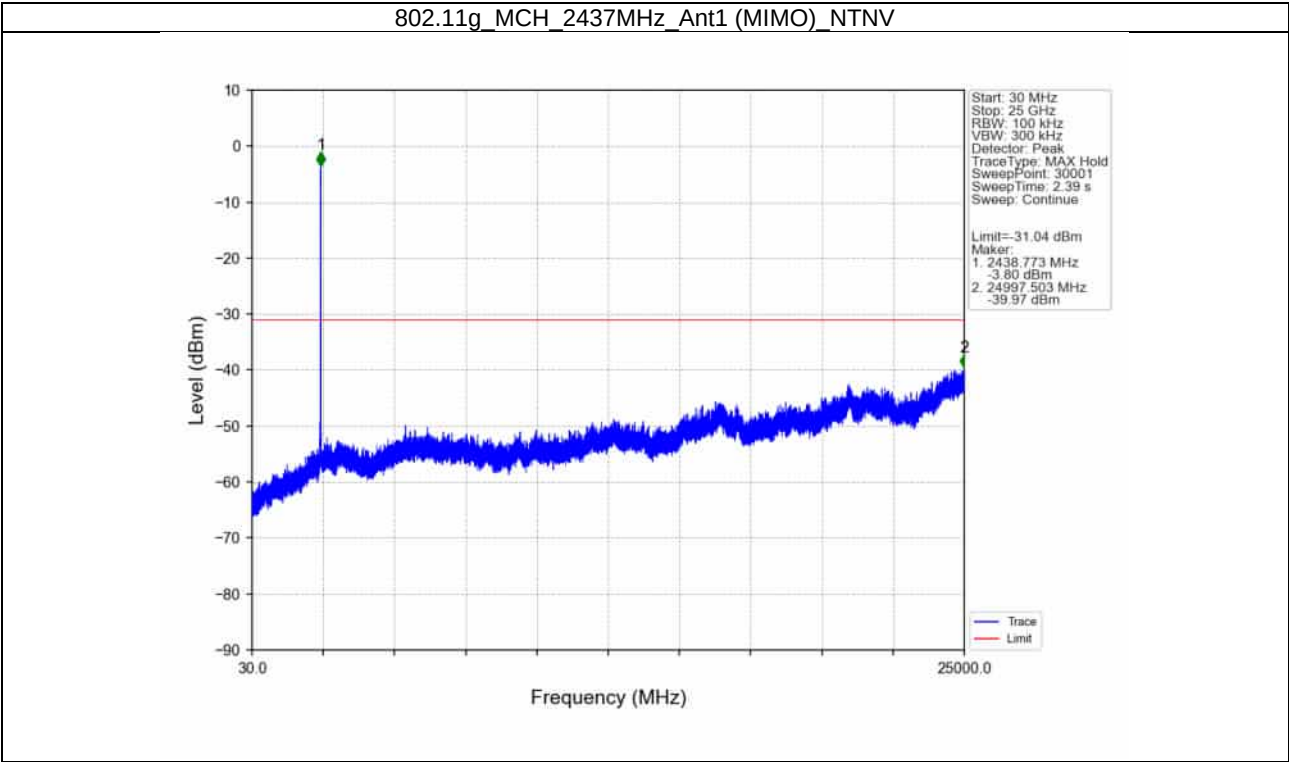
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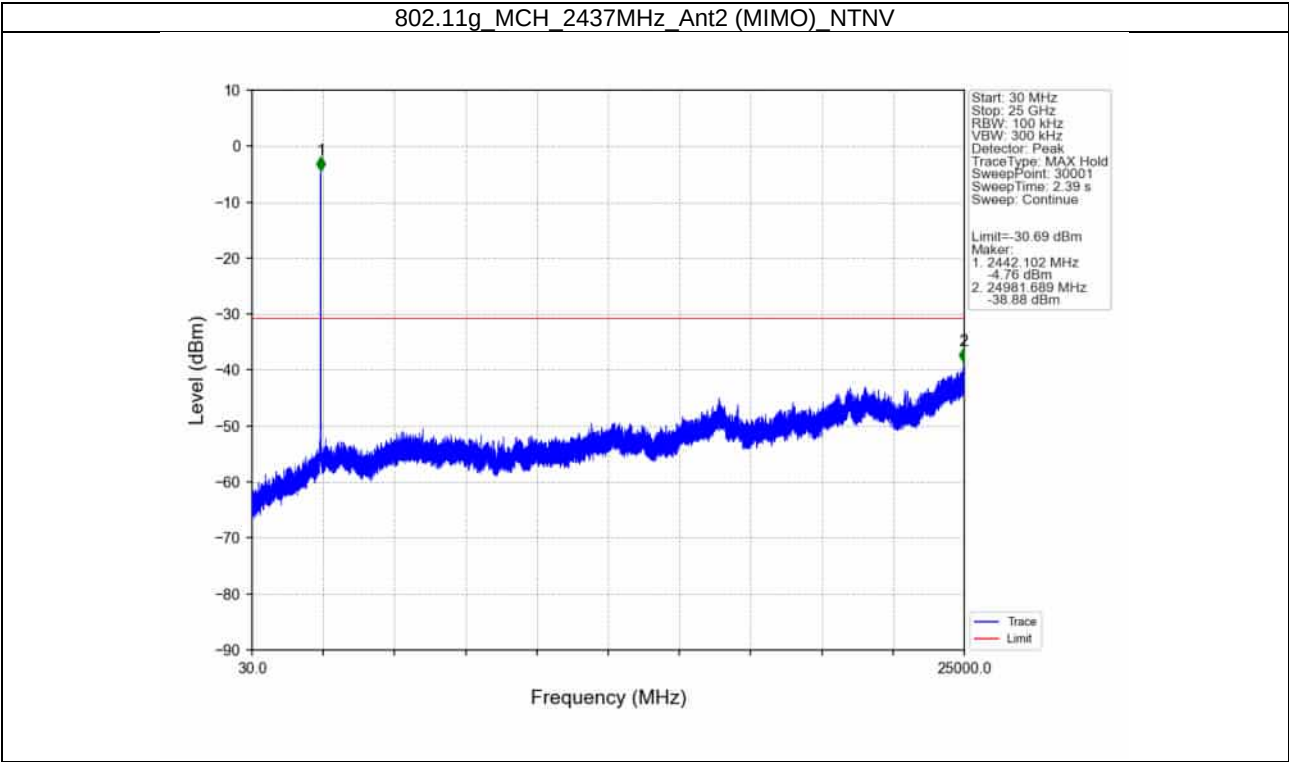
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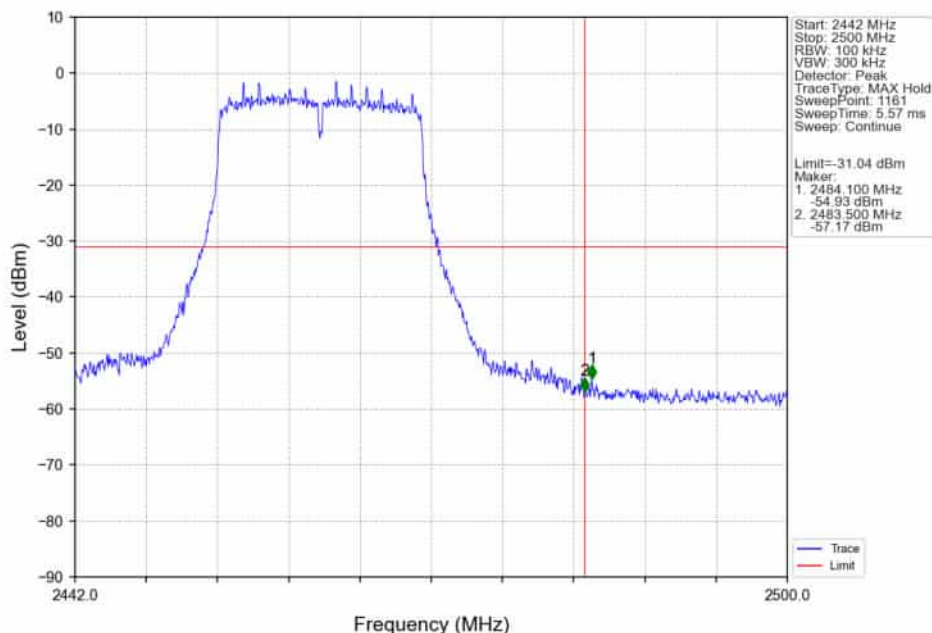


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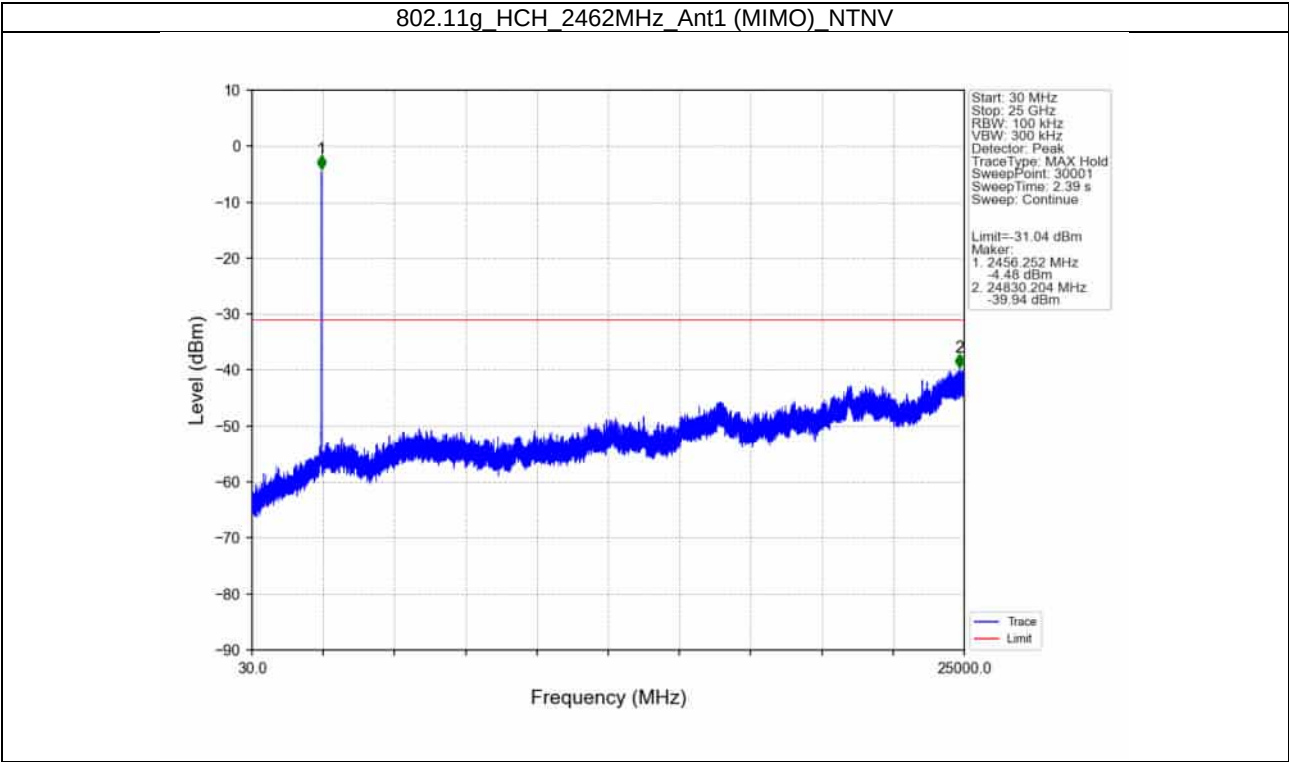
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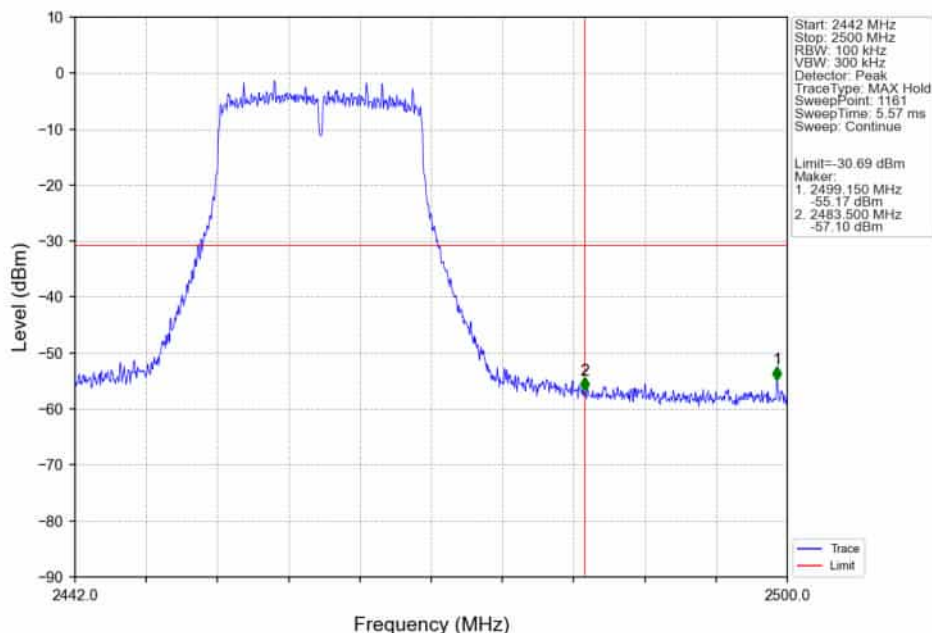


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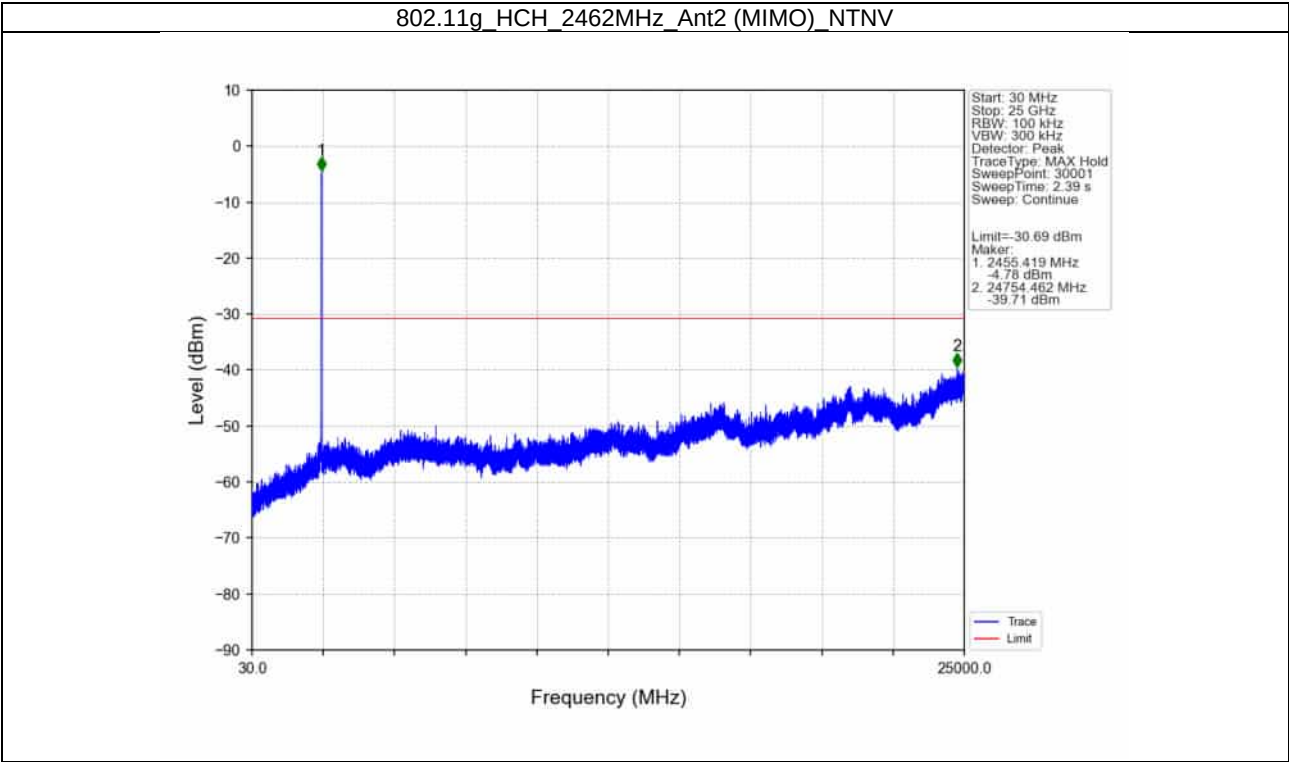
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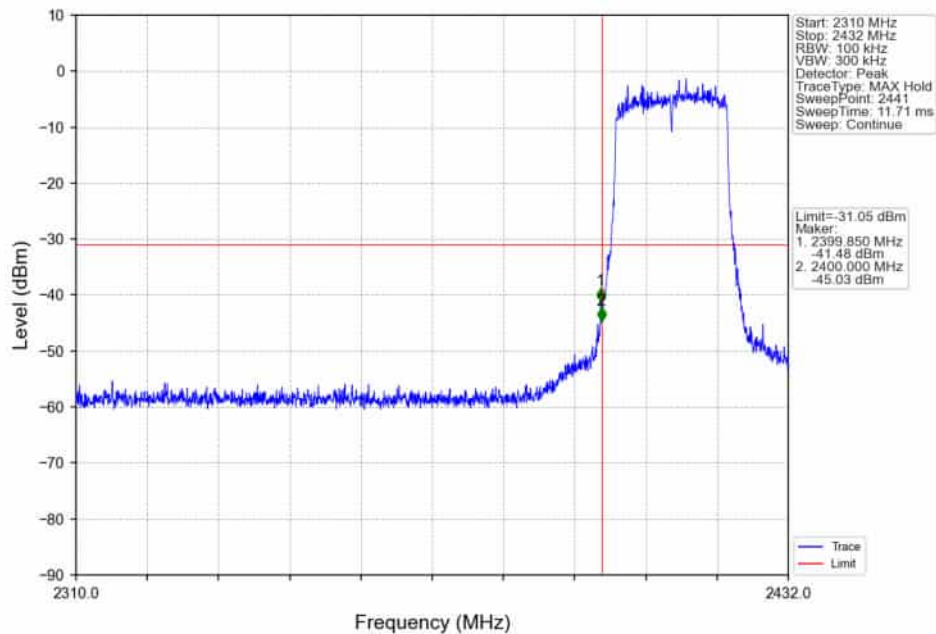


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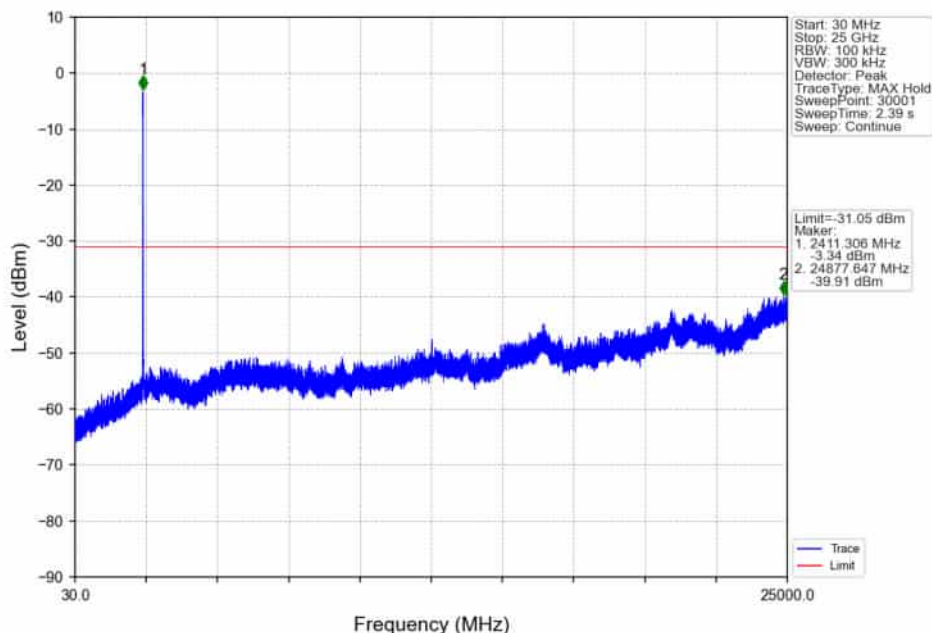


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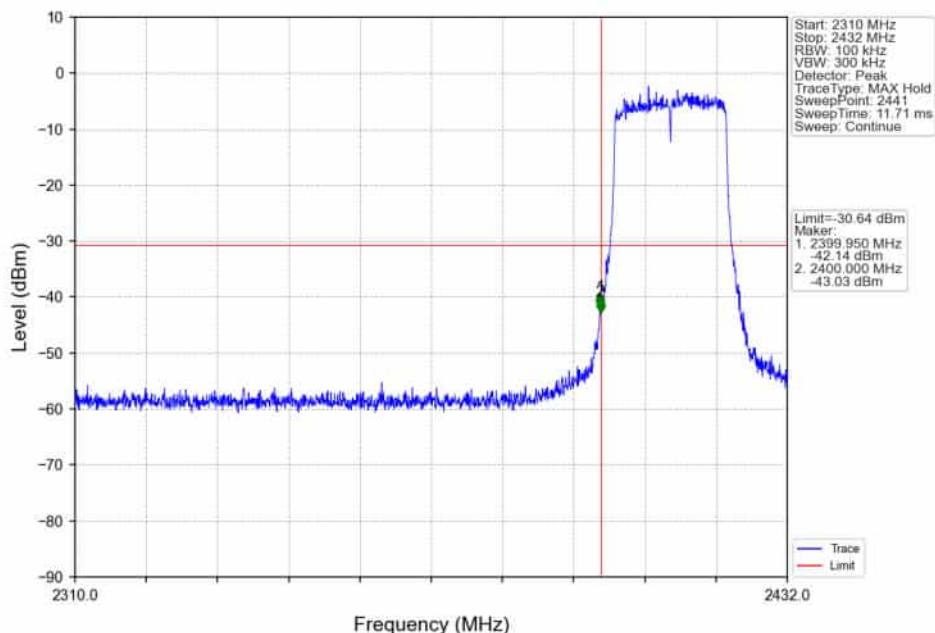


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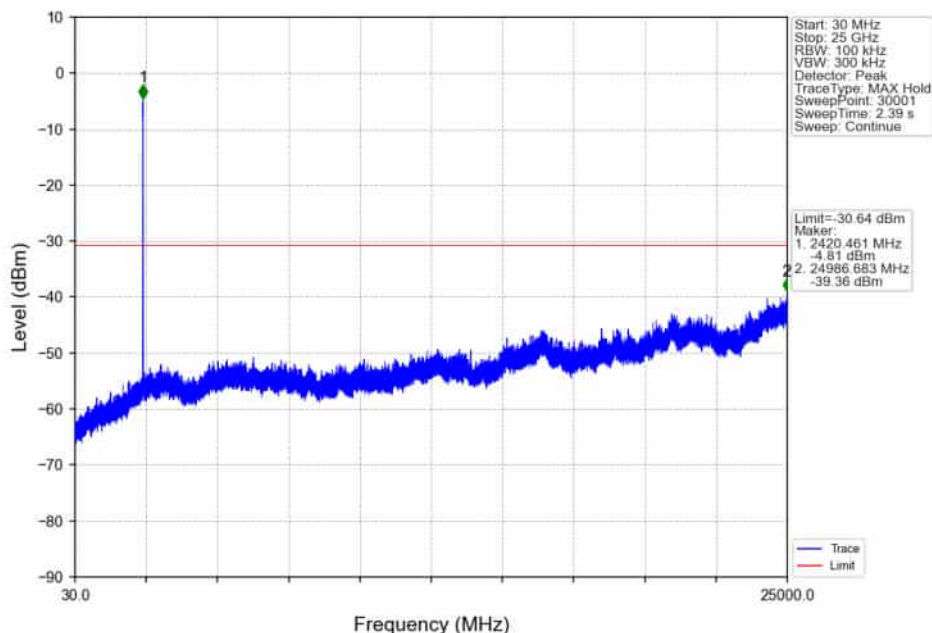


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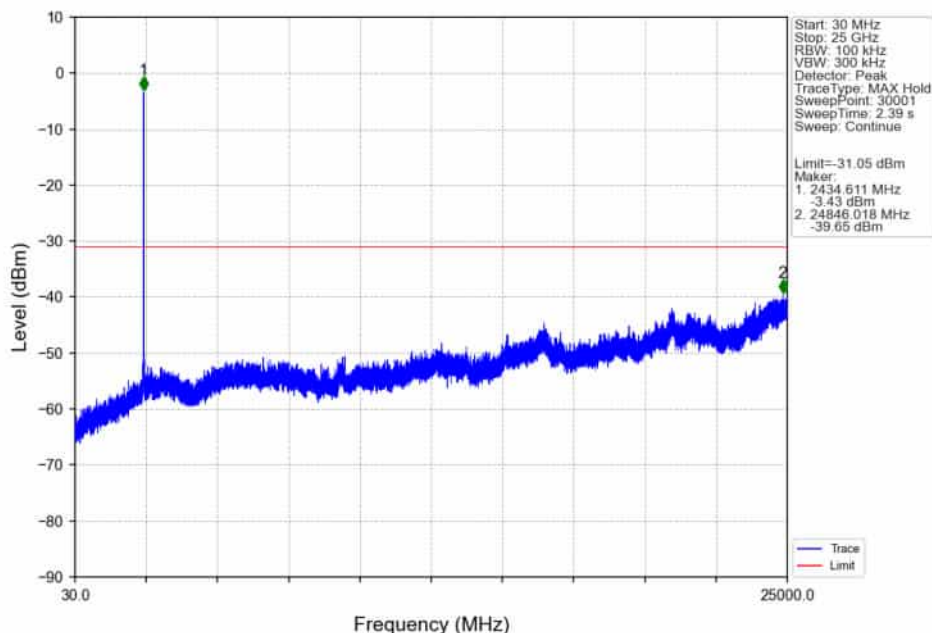


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802.11ax(HE20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV

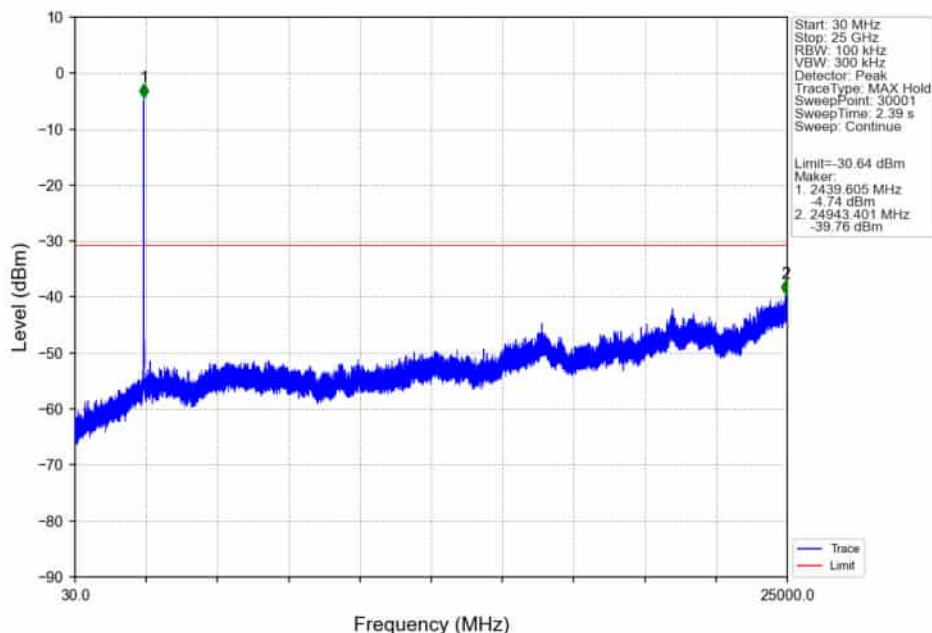


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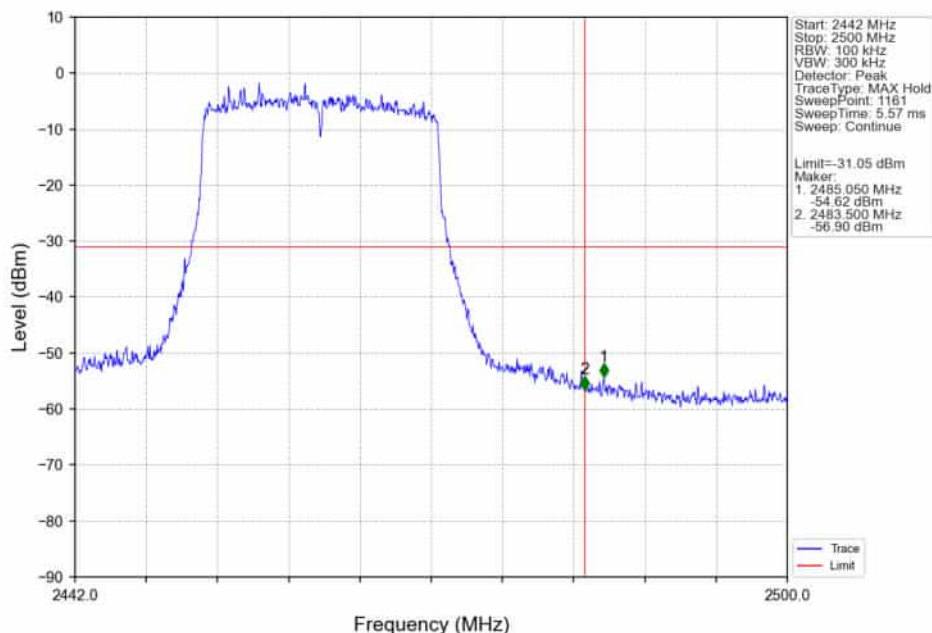


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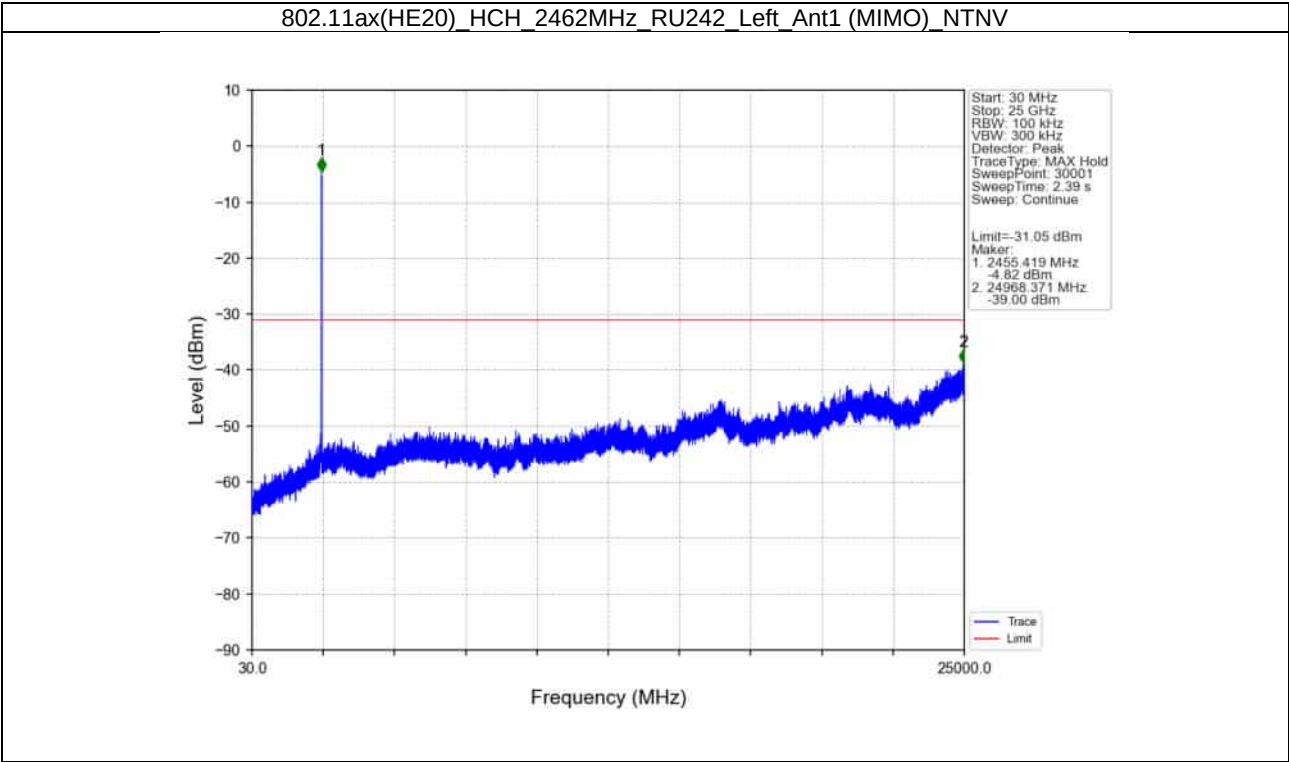
802.11ax(HE20)_HCH_2462MHz_RU242_Left_Ant1(MIMO)_NTNV



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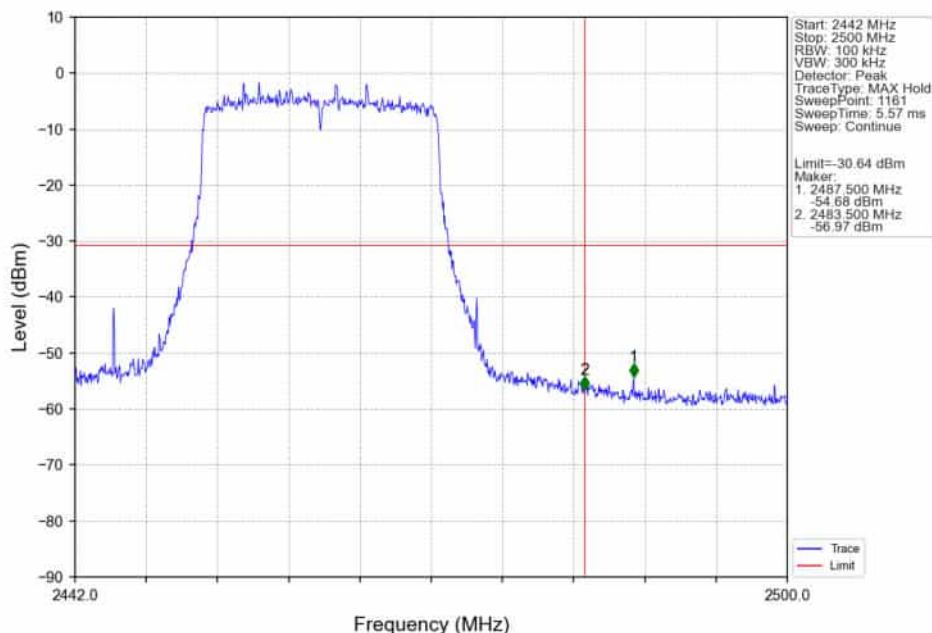


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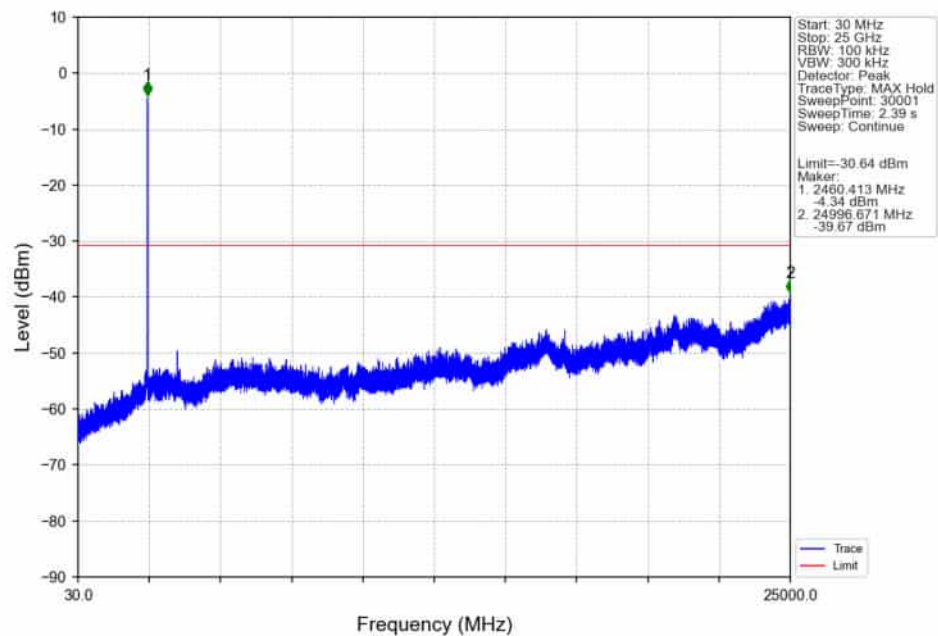


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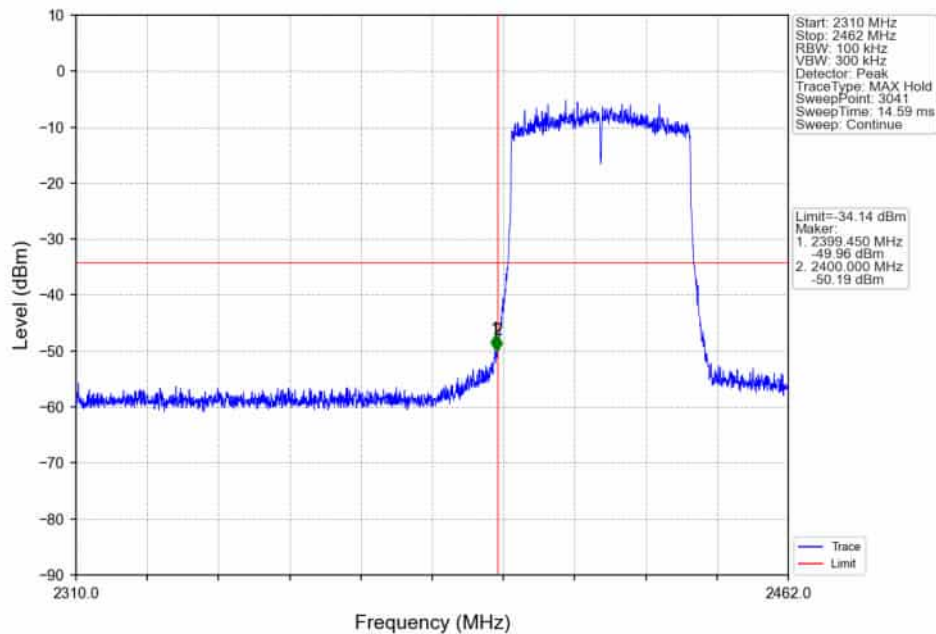


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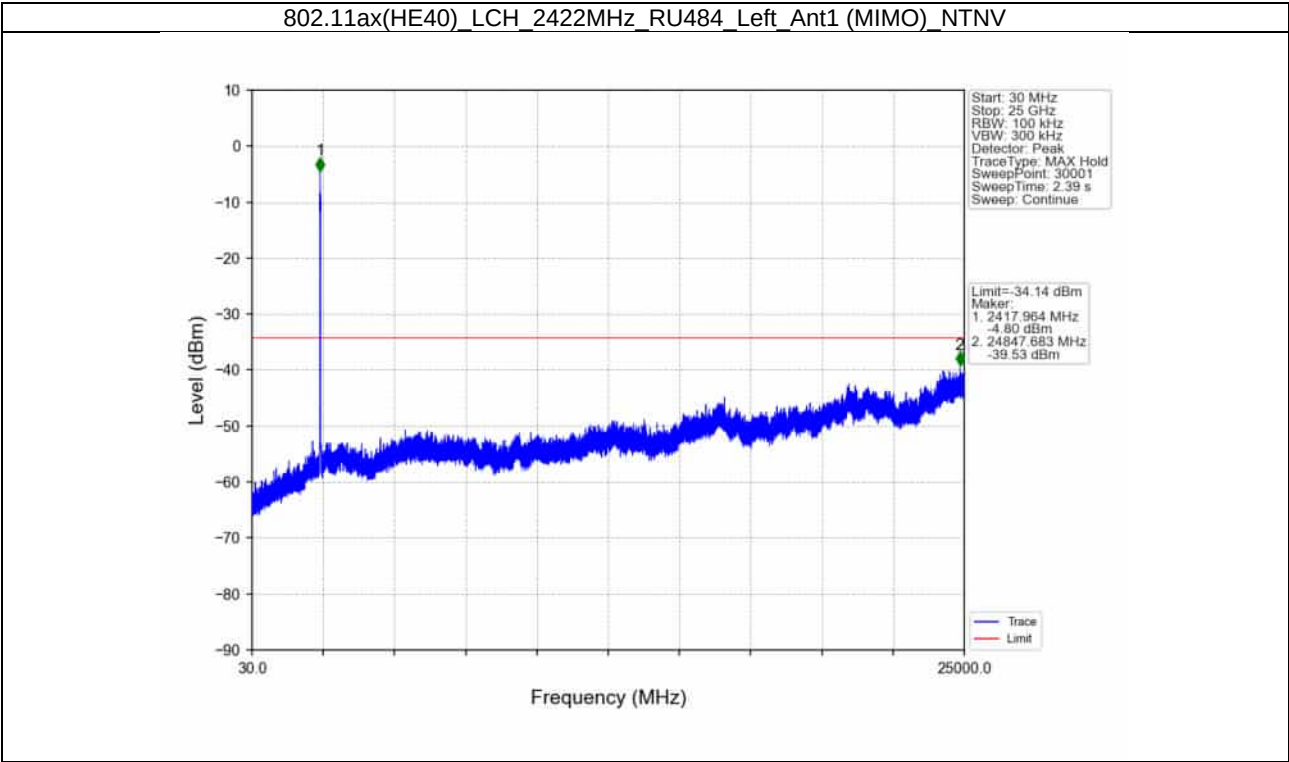
802.11ax(HE40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



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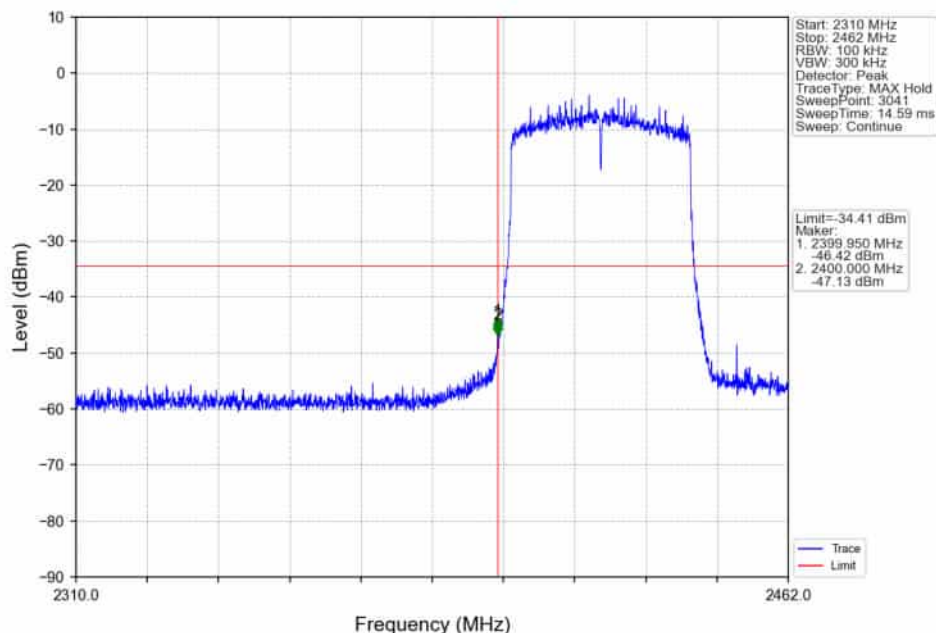


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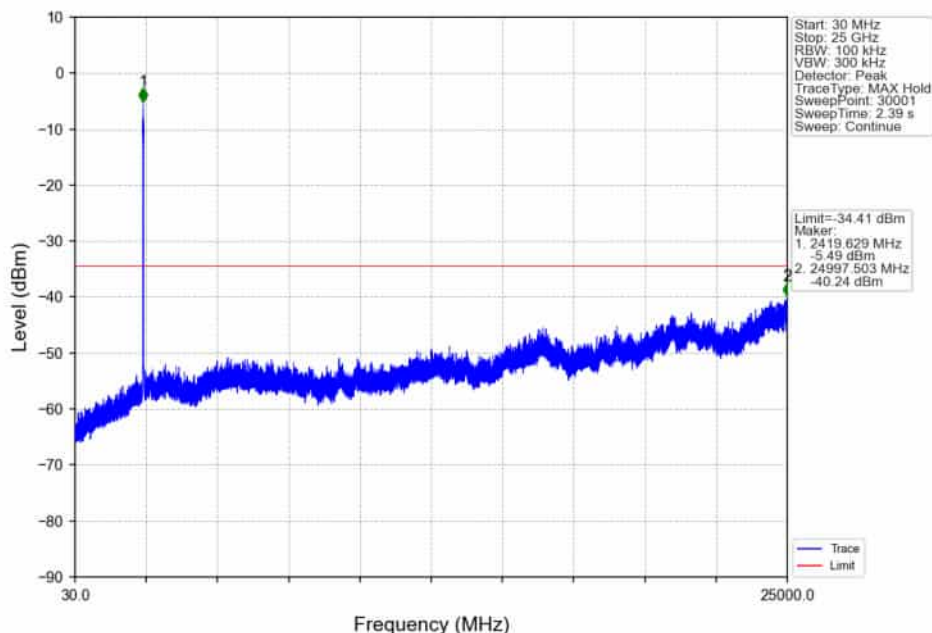


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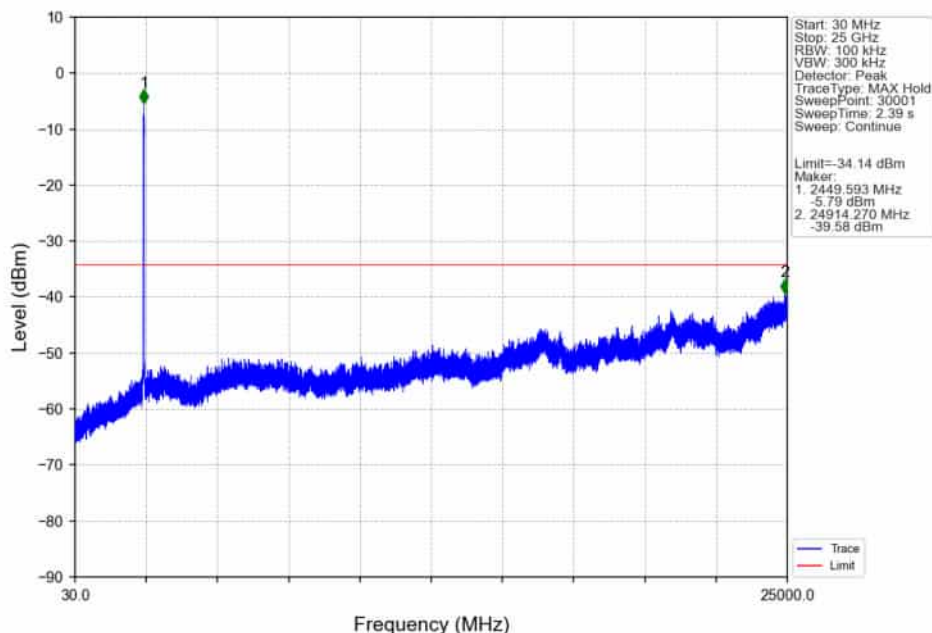


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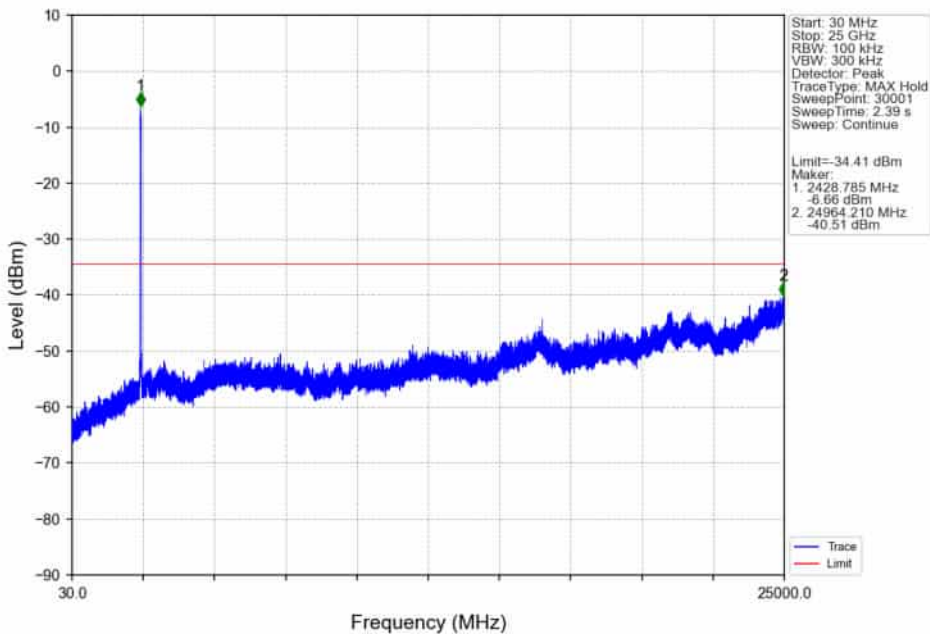


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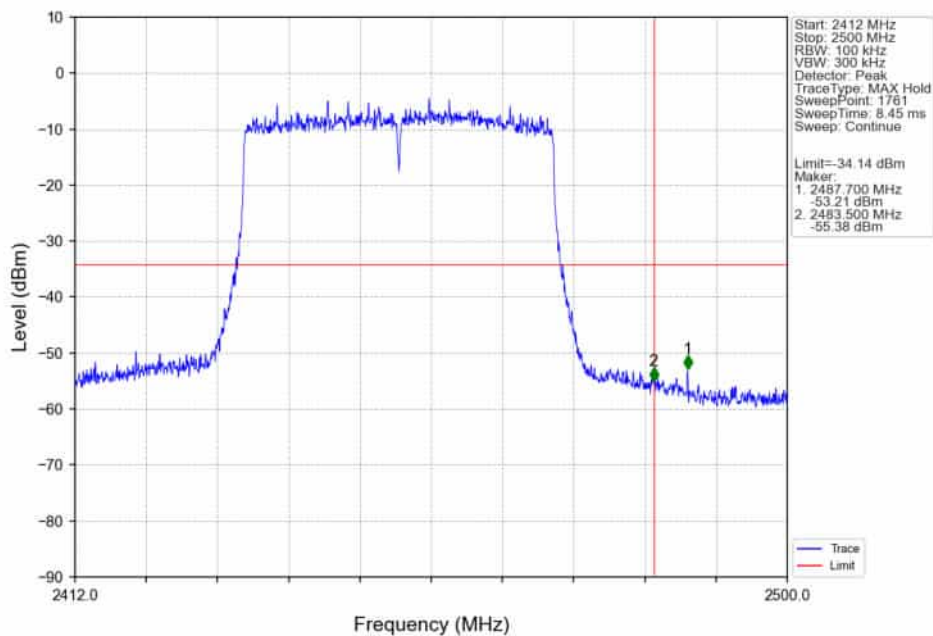
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Report No.: SUCR240900032701
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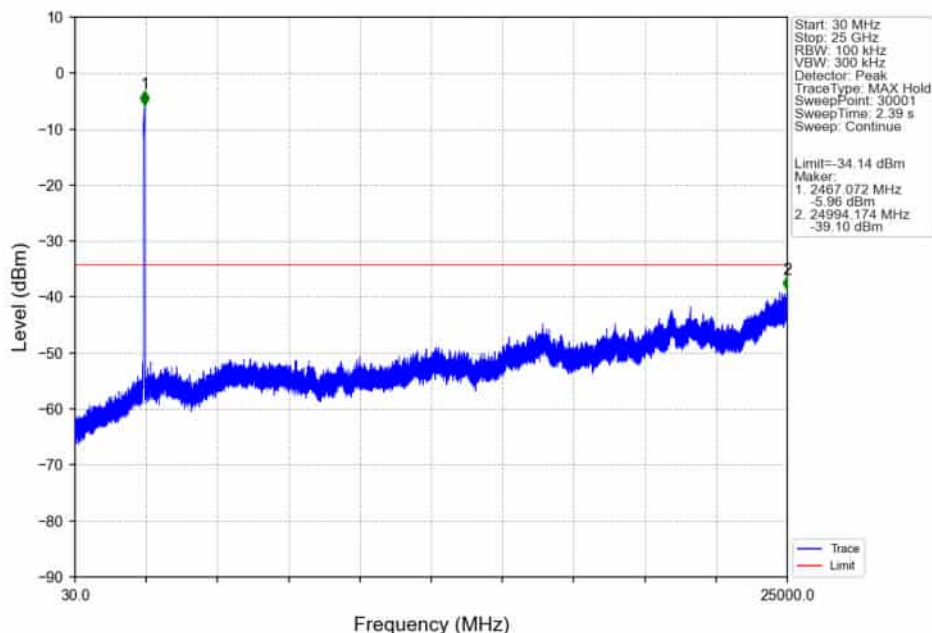
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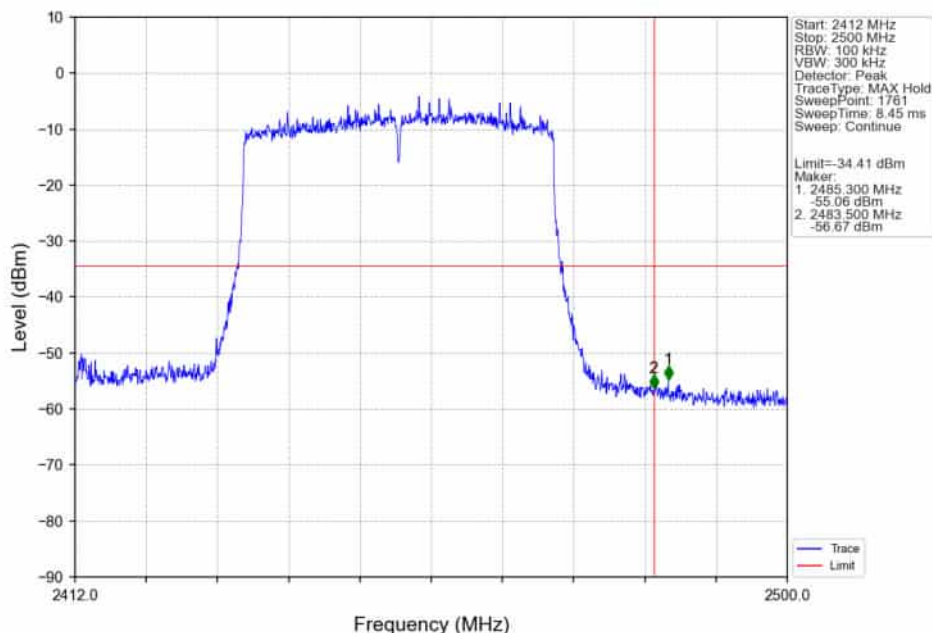


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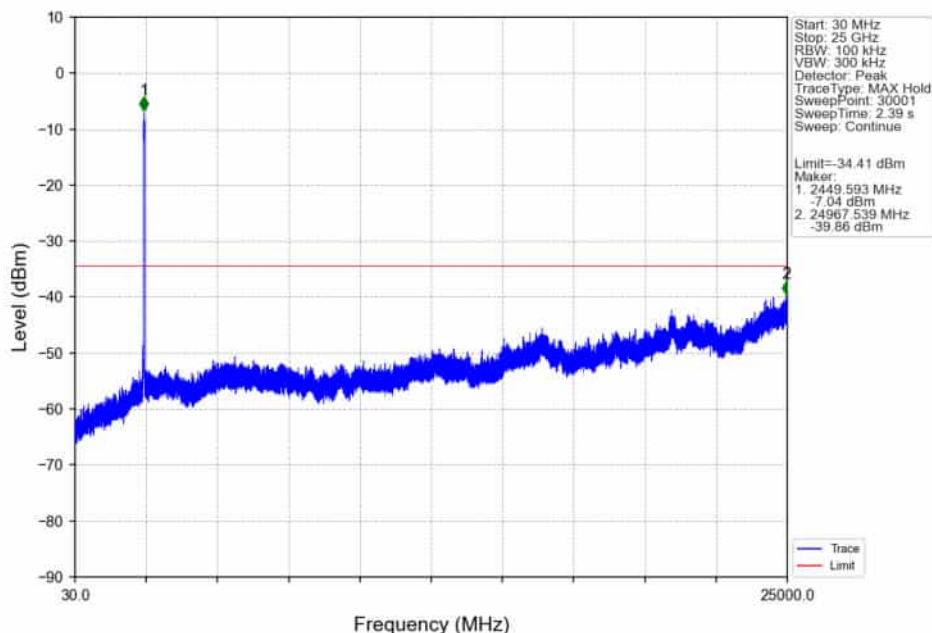


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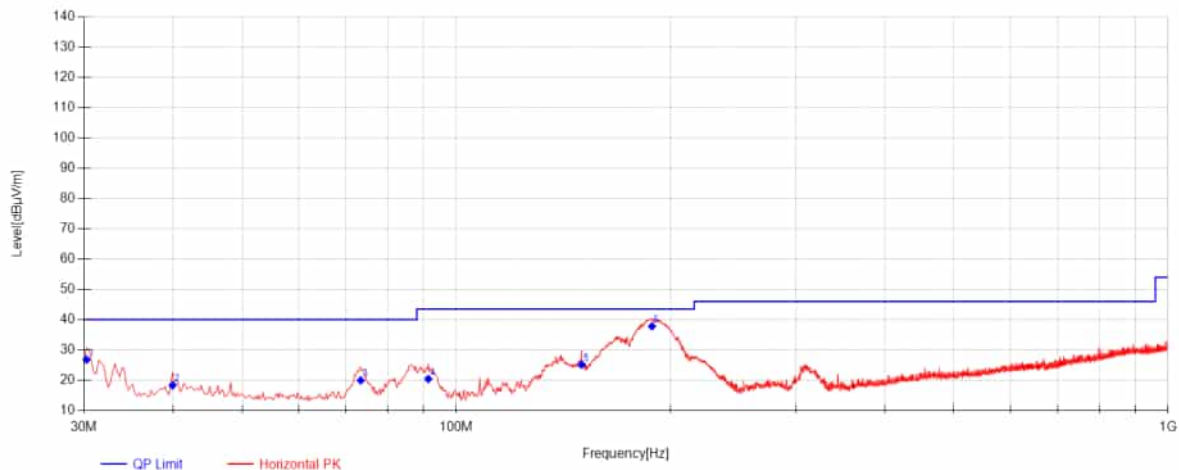
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11ax40_Channel 09

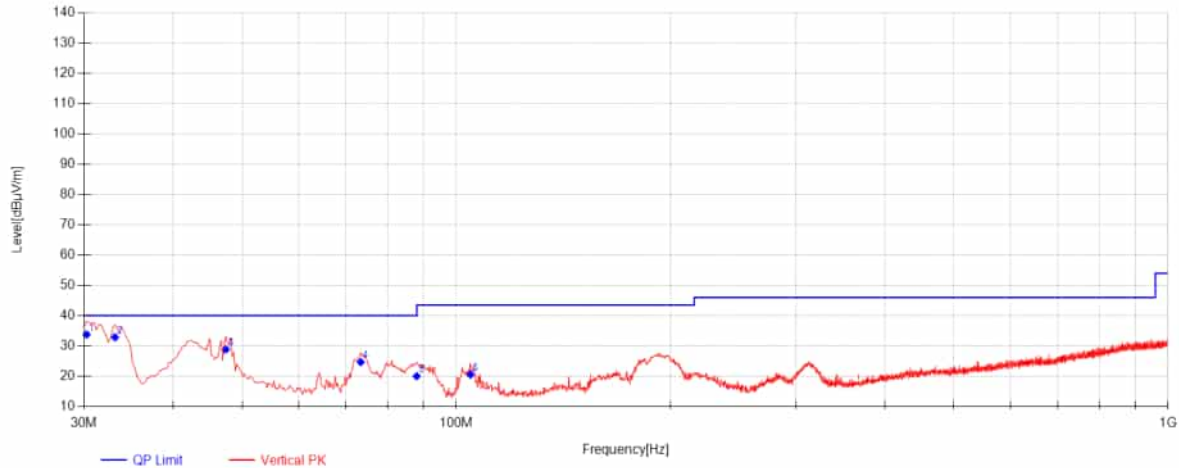


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	30.2425	51.23	-42.40	17.94	26.77	40.00	13.23	Horizontal
2	39.9425	41.03	-42.32	19.59	18.30	40.00	21.70	Horizontal
3	73.4075	45.29	-41.99	16.62	19.92	40.00	20.08	Horizontal
4	91.3525	47.55	-41.70	14.58	20.42	43.50	23.08	Horizontal
5	150.0375	47.63	-40.93	18.45	25.15	43.50	18.35	Horizontal
6	188.3525	62.70	-40.96	16.07	37.81	43.50	5.69	Horizontal

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Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	30.2425	58.23	-42.40	17.94	33.77	40.00	6.23	Vertical
2	33.1525	56.86	-42.37	18.40	32.89	40.00	7.11	Vertical
3	47.46	52.13	-42.36	19.08	28.84	40.00	11.16	Vertical
4	73.4075	50.02	-41.99	16.62	24.65	40.00	15.35	Vertical
5	87.9575	47.10	-41.73	14.62	19.99	40.00	20.01	Vertical
6	104.69	46.20	-41.71	16.03	20.52	43.50	22.98	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Value} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Value}(\text{dB}\mu\text{V}/\text{m})$$
- All channels have been tested, but only the worst case data displayed in this report.

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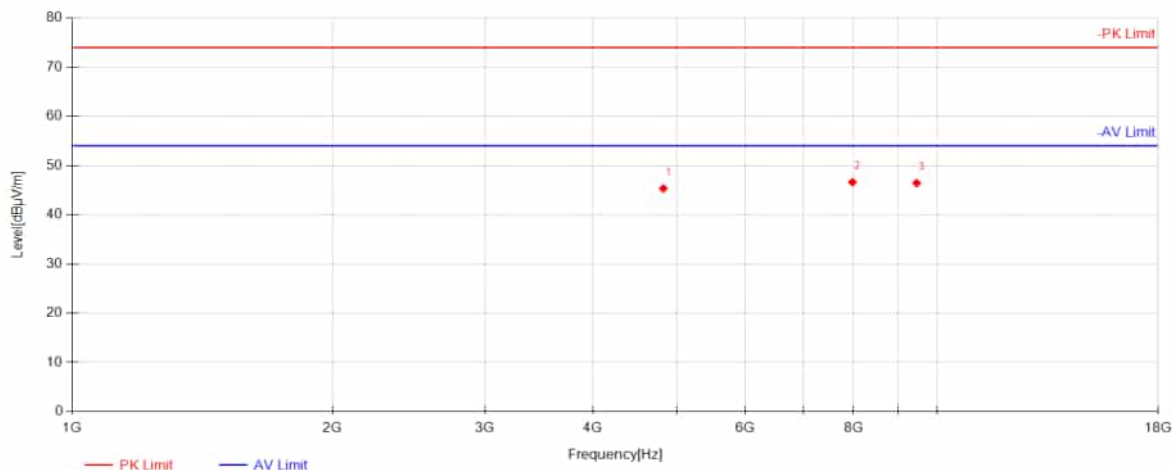
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Transmitter emission Above 1GHz

802.11b_Channel 01



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	59.76	31.12	-45.54	45.34	74.00	28.66	Horizontal
2	7982.625	51.98	37.08	-42.43	46.62	74.00	27.38	Horizontal
3	9469.125	49.11	37.44	-40.11	46.44	74.00	27.56	Horizontal

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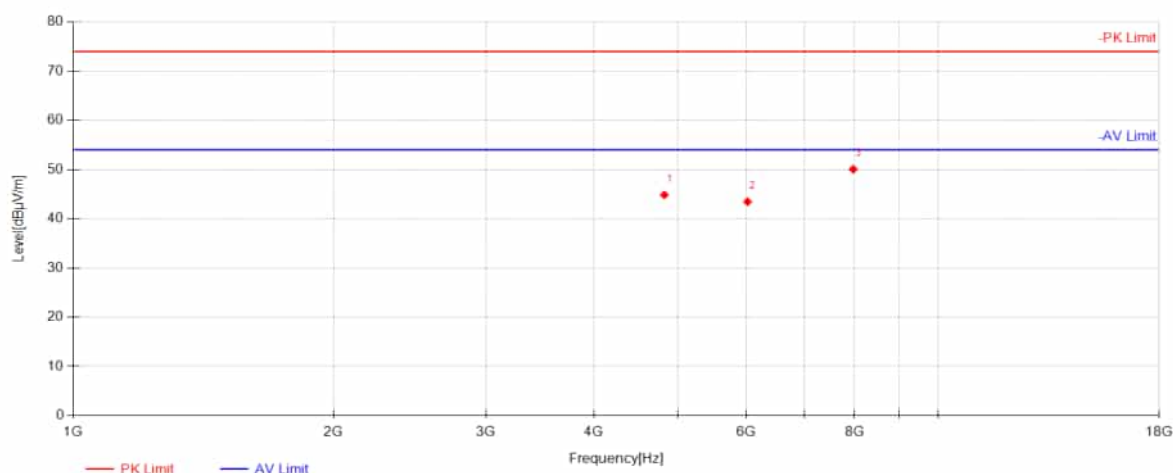
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	59.26	31.12	-45.54	44.84	74.00	29.16	Vertical
2	6020.25	55.73	32.47	-44.75	43.45	74.00	30.55	Vertical
3	7975.875	55.47	37.07	-42.46	50.07	74.00	23.93	Vertical

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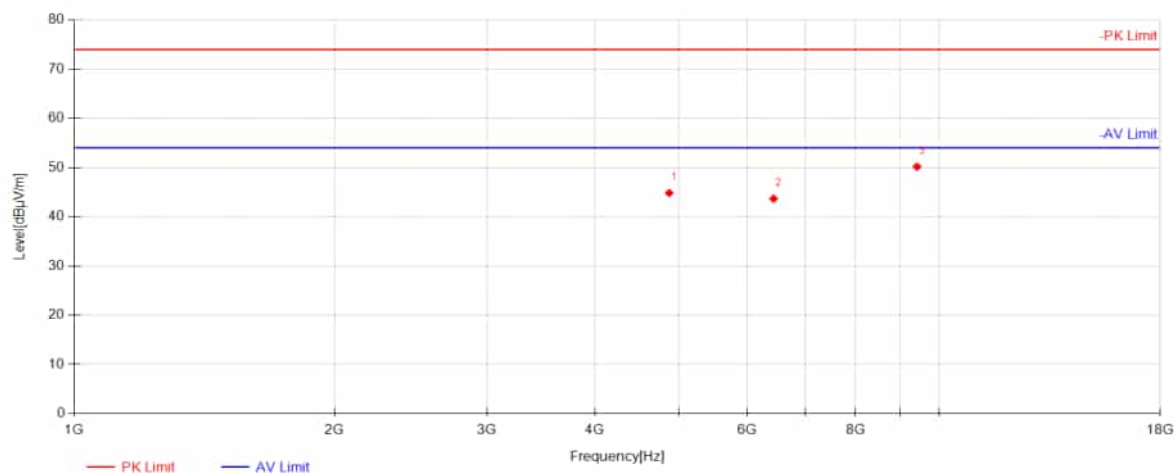
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4873.5	59.17	31.20	-45.53	44.83	74.00	29.17	Horizontal
2	6436.875	54.26	33.89	-44.48	43.66	74.00	30.34	Horizontal
3	9426	52.75	37.35	-39.93	50.17	74.00	23.83	Horizontal

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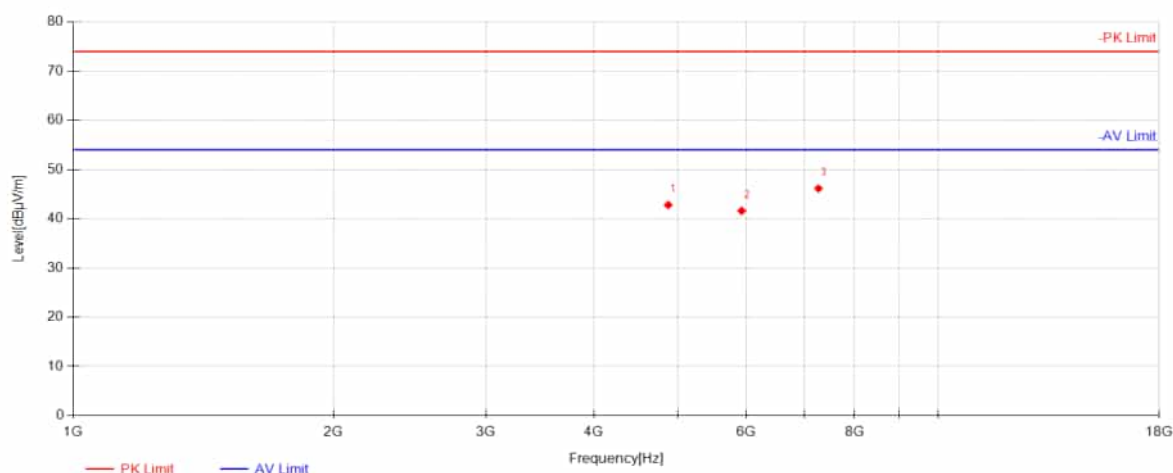
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4873.875	57.13	31.20	-45.53	42.80	74.00	31.20	Vertical
2	5926.5	54.16	32.39	-44.93	41.61	74.00	32.39	Vertical
3	7270.5	54.06	35.76	-43.65	46.16	74.00	27.84	Vertical

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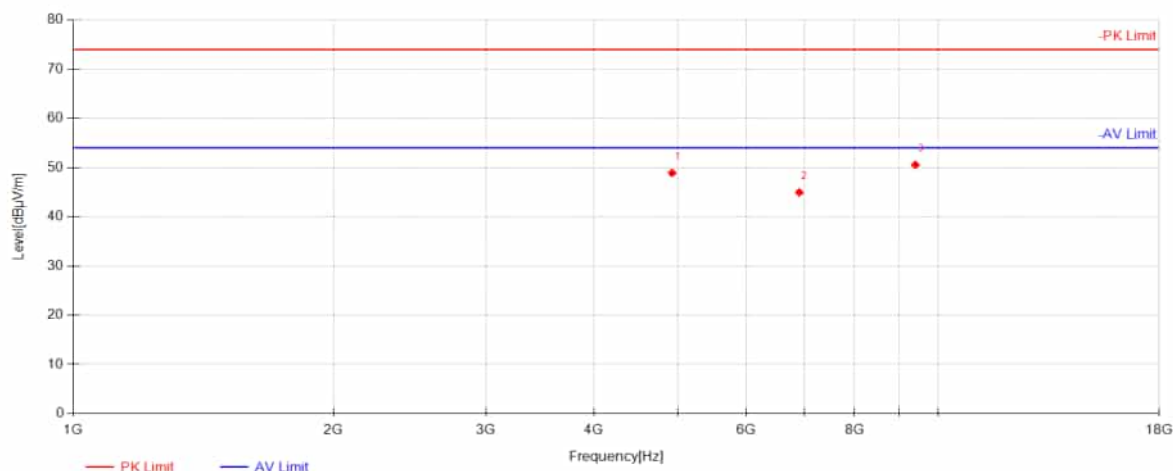
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924.125	63.18	31.28	-45.56	48.90	74.00	25.10	Horizontal
2	6908.625	54.17	34.84	-44.05	44.95	74.00	29.05	Horizontal
3	9412.875	53.12	37.33	-39.88	50.56	74.00	23.44	Horizontal

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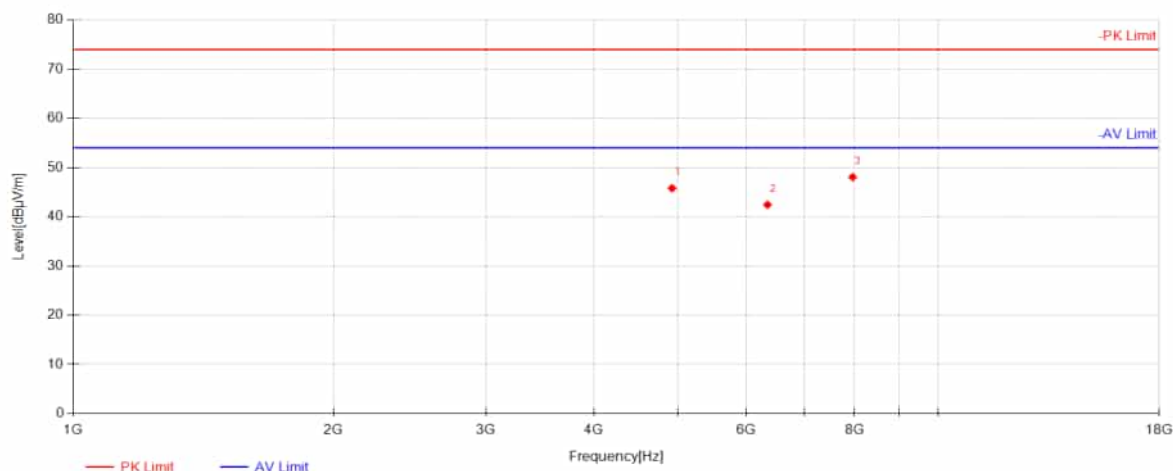
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924.125	60.06	31.28	-45.56	45.78	74.00	28.22	Vertical
2	6348.75	53.32	33.59	-44.48	42.43	74.00	31.57	Vertical
3	7964.25	53.54	37.05	-42.52	48.07	74.00	25.93	Vertical

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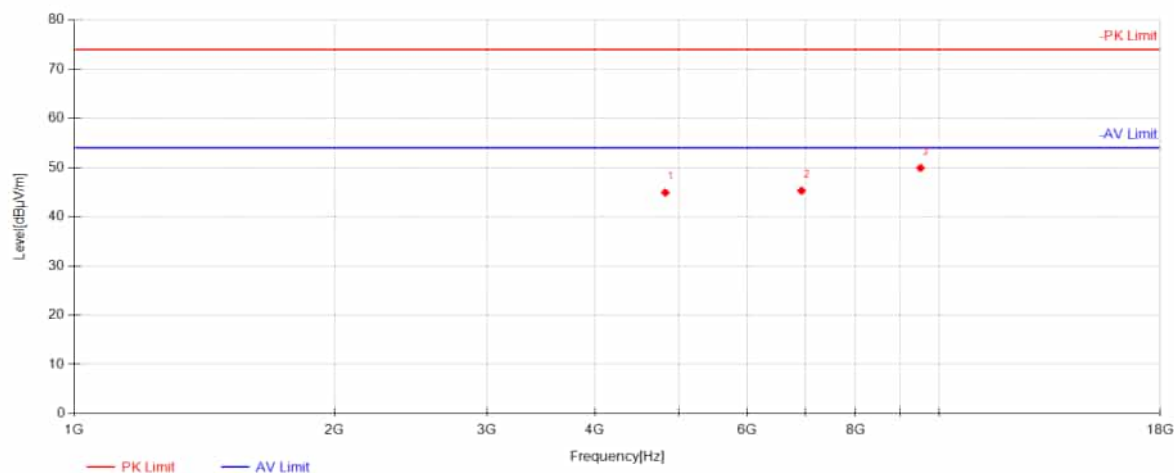
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4823.25	59.33	31.12	-45.54	44.91	74.00	29.09	Horizontal
2	6930.75	54.35	34.88	-43.93	45.29	74.00	28.71	Horizontal
3	9514.875	52.54	37.53	-40.15	49.92	74.00	24.08	Horizontal

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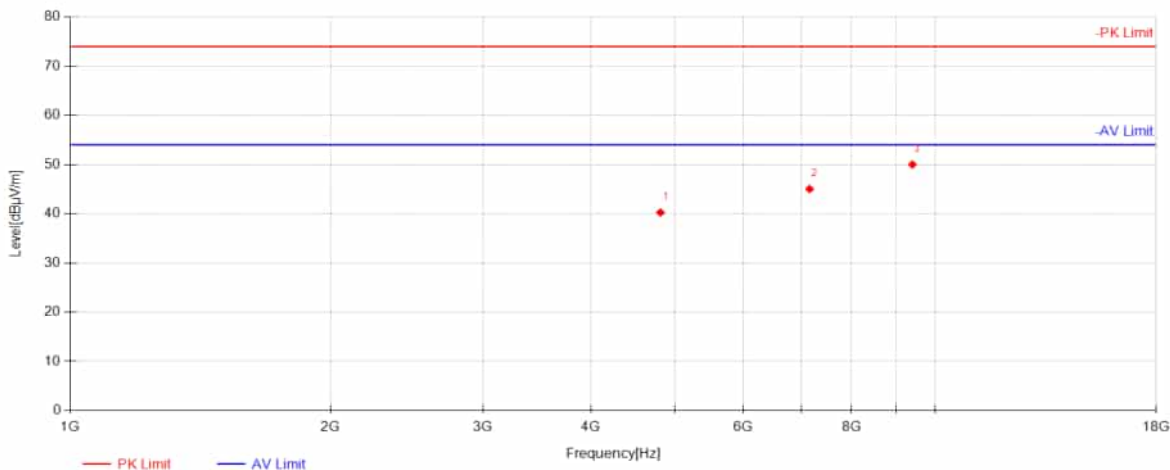
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4812.375	54.68	31.10	-45.54	40.24	74.00	33.76	Vertical
2	7158.75	53.33	35.44	-43.75	45.03	74.00	28.97	Vertical
3	9411.375	52.56	37.32	-39.88	50.01	74.00	23.99	Vertical

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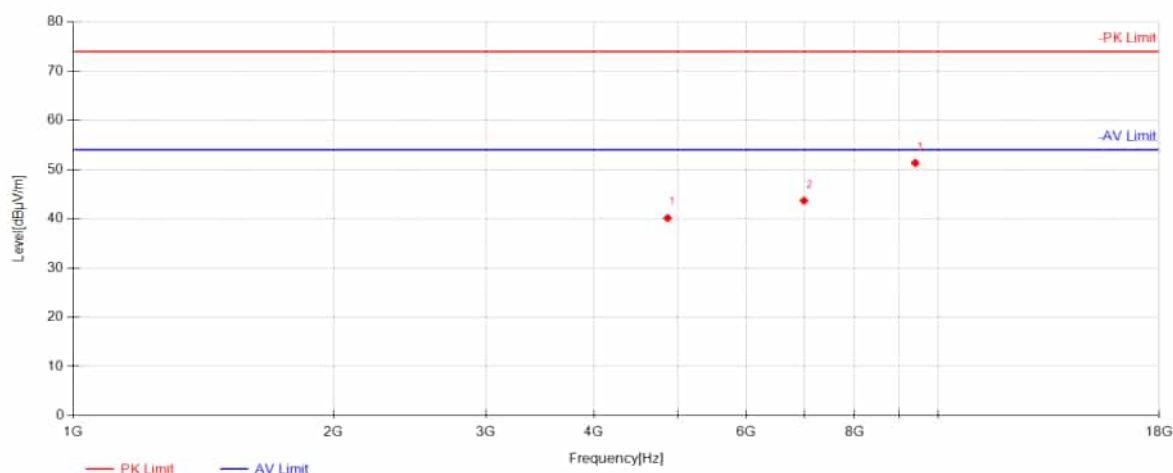
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4864.875	54.47	31.18	-45.53	40.12	74.00	33.88	Horizontal
2	6996.75	52.24	34.99	-43.57	43.67	74.00	30.33	Horizontal
3	9407.25	53.88	37.31	-39.86	51.34	74.00	22.66	Horizontal

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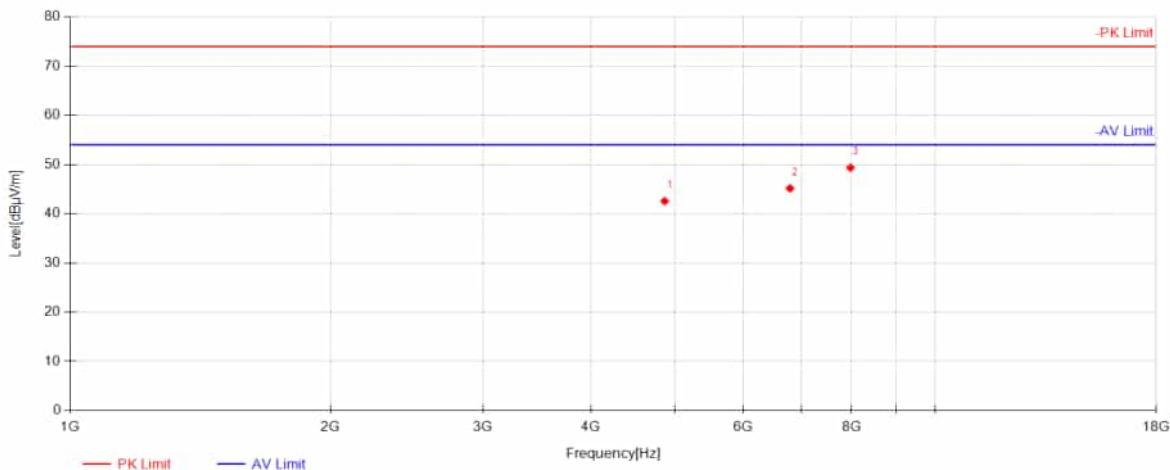
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4866.75	56.92	31.19	-45.53	42.57	74.00	31.43	Vertical
2	6794.25	54.68	34.63	-44.15	45.16	74.00	28.84	Vertical
3	7983.375	54.70	37.08	-42.43	49.35	74.00	24.65	Vertical

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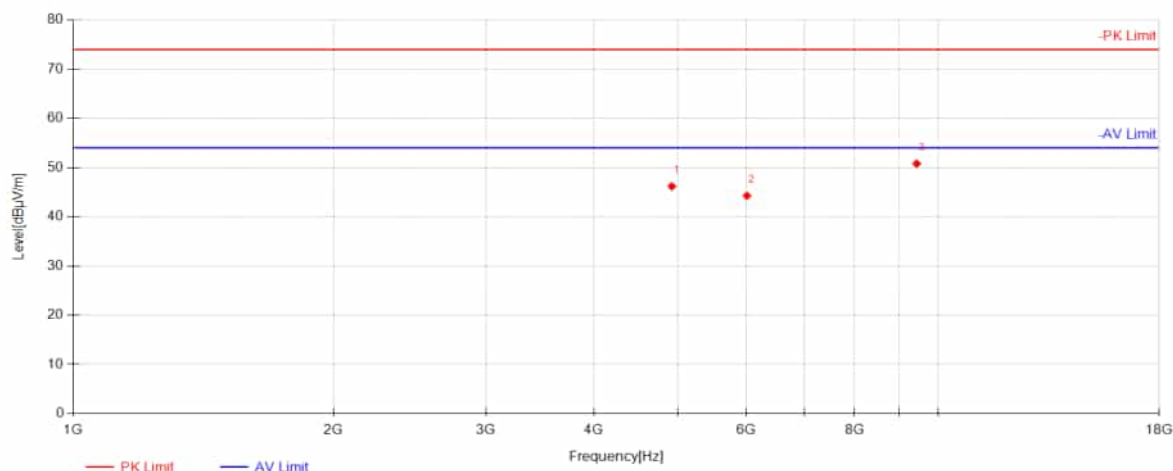
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4920.75	60.47	31.27	-45.55	46.19	74.00	27.81	Horizontal
2	6010.125	56.62	32.43	-44.79	44.26	74.00	29.74	Horizontal
3	9445.125	53.41	37.39	-40.01	50.79	74.00	23.21	Horizontal

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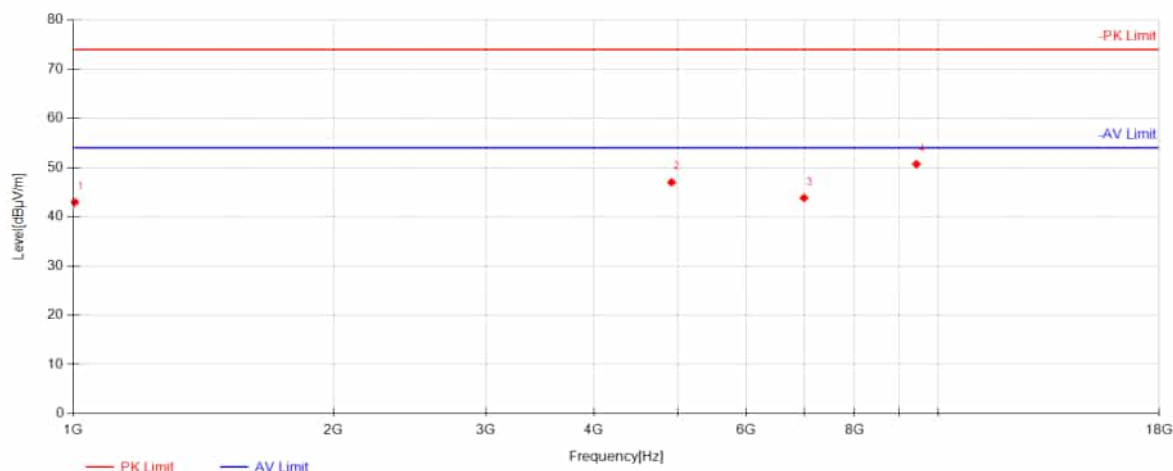
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1004	41.59	25.39	-24.02	42.97	74.00	31.03	Vertical
2	4917.75	61.29	31.27	-45.55	47.01	74.00	26.99	Vertical
3	6997.125	52.39	34.99	-43.57	43.82	74.00	30.18	Vertical
4	9439.125	53.29	37.38	-39.99	50.68	74.00	23.32	Vertical

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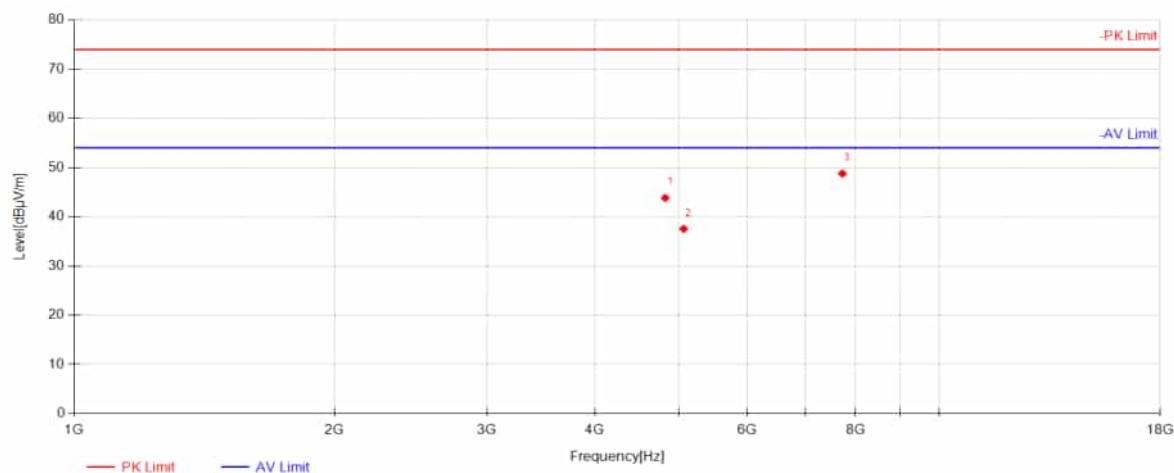
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4822.875	58.25	31.12	-45.54	43.83	74.00	30.17	Horizontal
2	5065.125	51.48	31.52	-45.46	37.53	74.00	36.47	Horizontal
3	7728.75	54.95	36.72	-42.89	48.78	74.00	25.22	Horizontal

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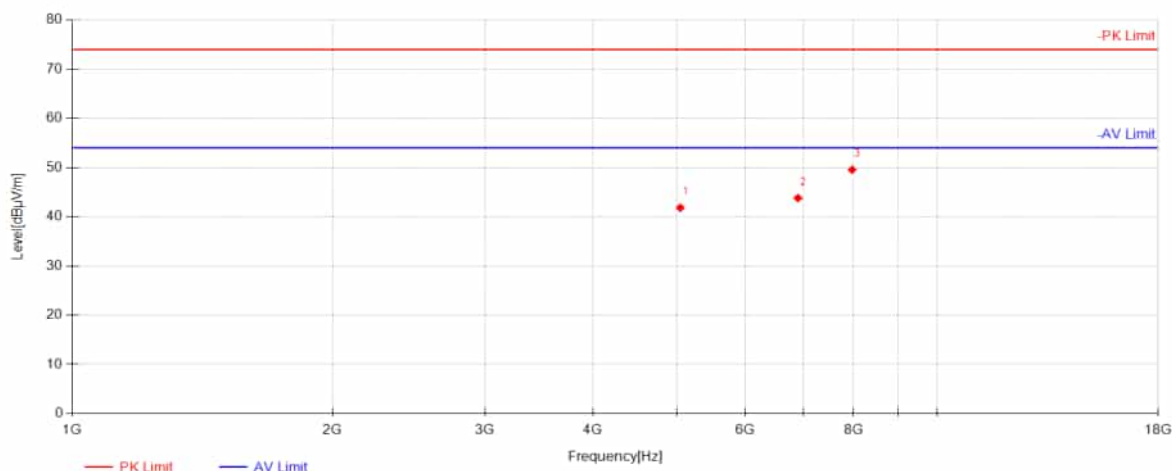
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR240900032701

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5046.375	55.87	31.48	-45.51	41.84	74.00	32.16	Vertical
2	6903	53.06	34.83	-44.08	43.80	74.00	30.20	Vertical
3	7974.75	54.95	37.06	-42.47	49.55	74.00	24.45	Vertical

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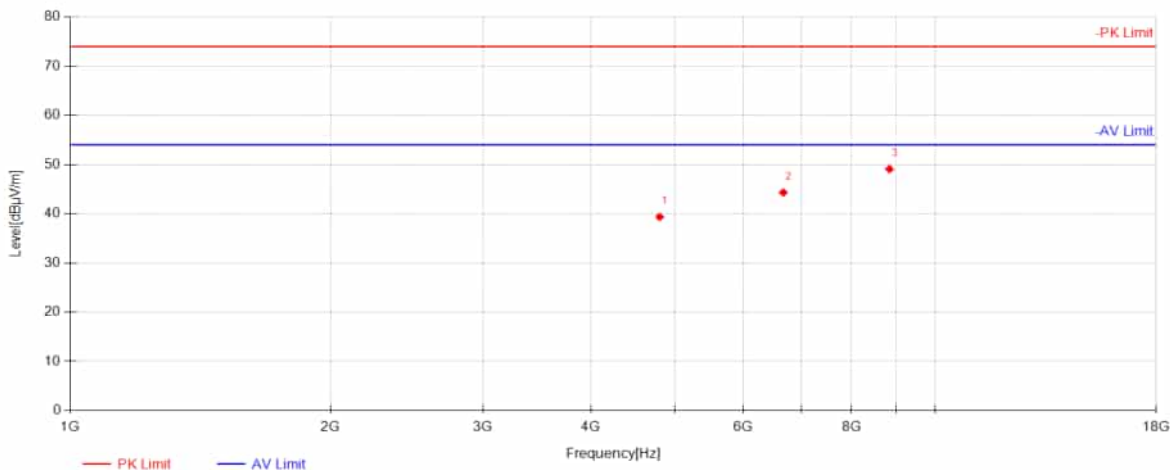
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4802.625	53.82	31.08	-45.54	39.36	74.00	34.64	Horizontal
2	6674.25	53.87	34.41	-43.95	44.33	74.00	29.67	Horizontal
3	8856	53.74	36.59	-41.24	49.08	74.00	24.92	Horizontal

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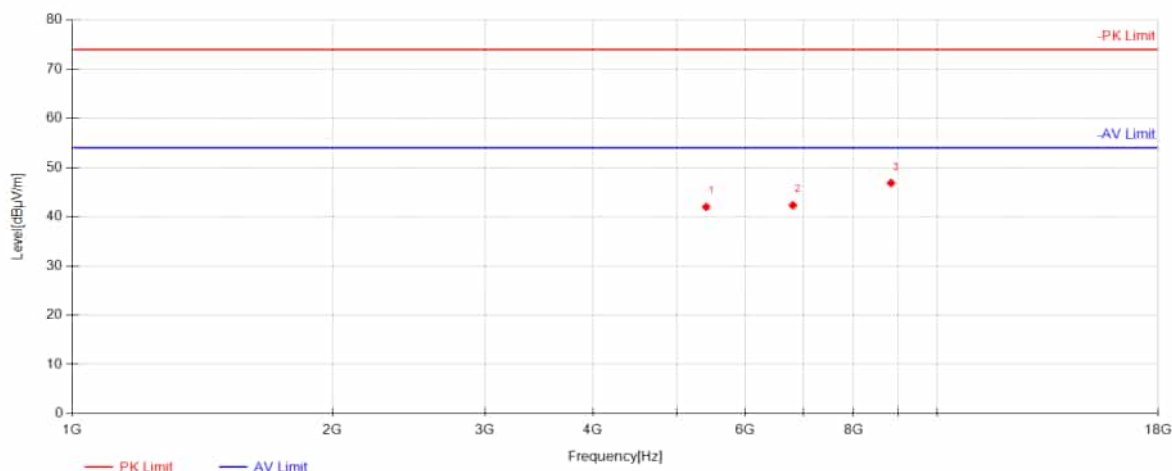
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5406.75	55.15	32.13	-45.30	41.99	74.00	32.01	Vertical
2	6811.5	51.83	34.66	-44.16	42.33	74.00	31.67	Vertical
3	8844.375	51.51	36.59	-41.25	46.86	74.00	27.14	Vertical

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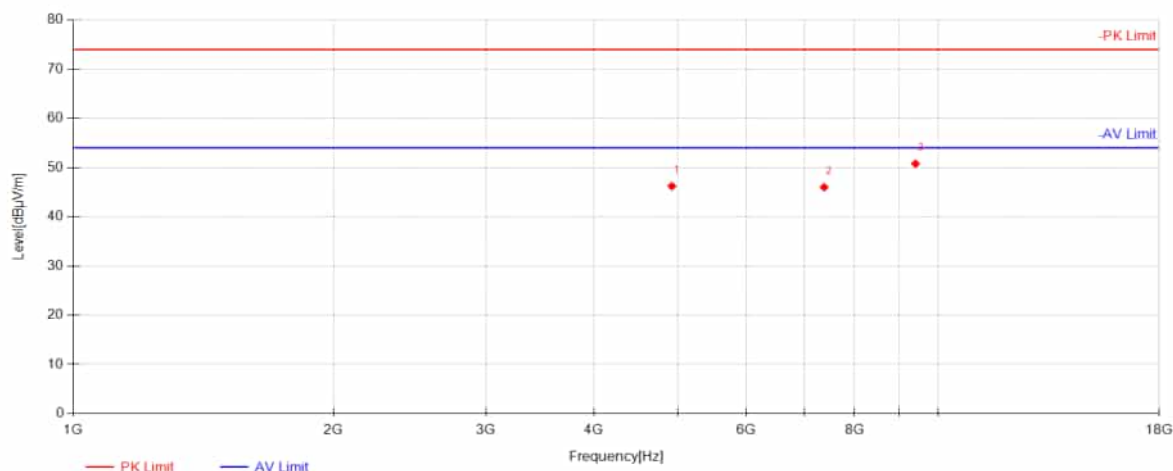
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4921.875	60.51	31.28	-45.55	46.23	74.00	27.77	Horizontal
2	7381.875	53.42	36.07	-43.47	46.02	74.00	27.98	Horizontal
3	9414	53.34	37.33	-39.89	50.78	74.00	23.22	Horizontal

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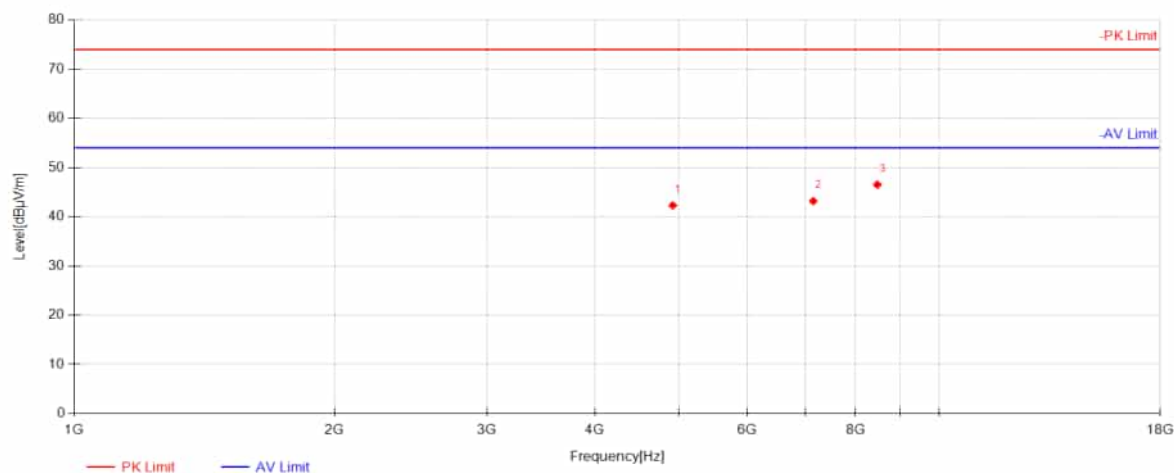
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4920.375	56.59	31.27	-45.55	42.31	74.00	31.69	Vertical
2	7152.375	51.55	35.43	-43.80	43.18	74.00	30.82	Vertical
3	8483.625	51.31	36.81	-41.59	46.53	74.00	27.47	Vertical

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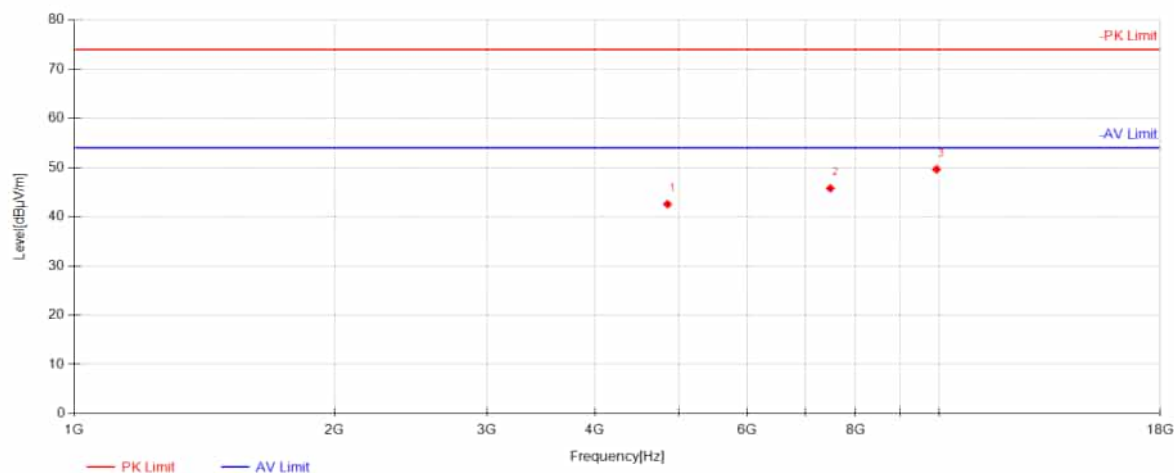
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802.11n40_Channel 03



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4851.375	56.94	31.16	-45.53	42.57	74.00	31.43	Horizontal
2	7485.75	52.60	36.36	-43.18	45.78	74.00	28.22	Horizontal
3	9928.5	50.59	38.36	-39.30	49.64	74.00	24.36	Horizontal

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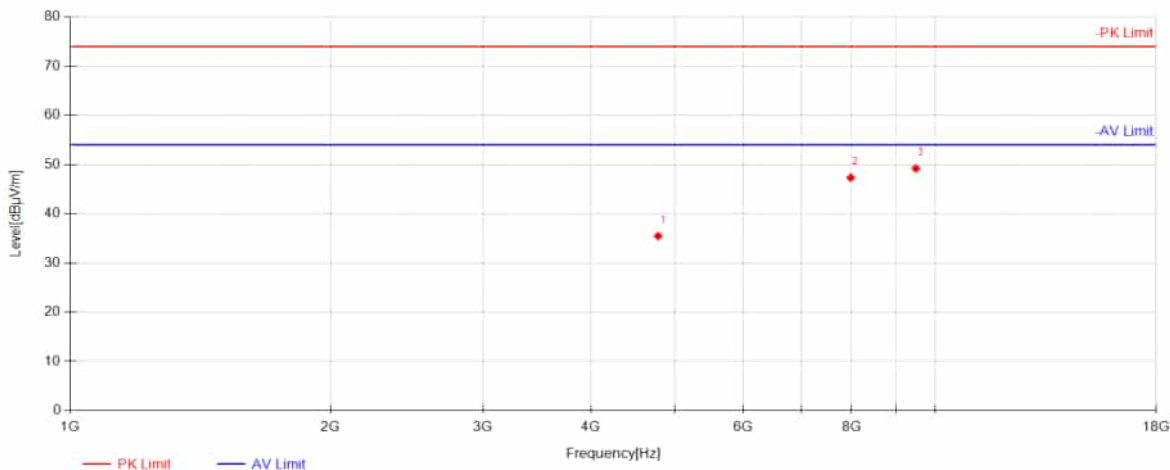
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802.11n40_Channel 03



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4782.75	49.97	31.05	-45.55	35.47	74.00	38.53	Vertical
2	7987.125	52.65	37.08	-42.41	47.32	74.00	26.68	Vertical
3	9499.875	51.92	37.50	-40.23	49.19	74.00	24.81	Vertical

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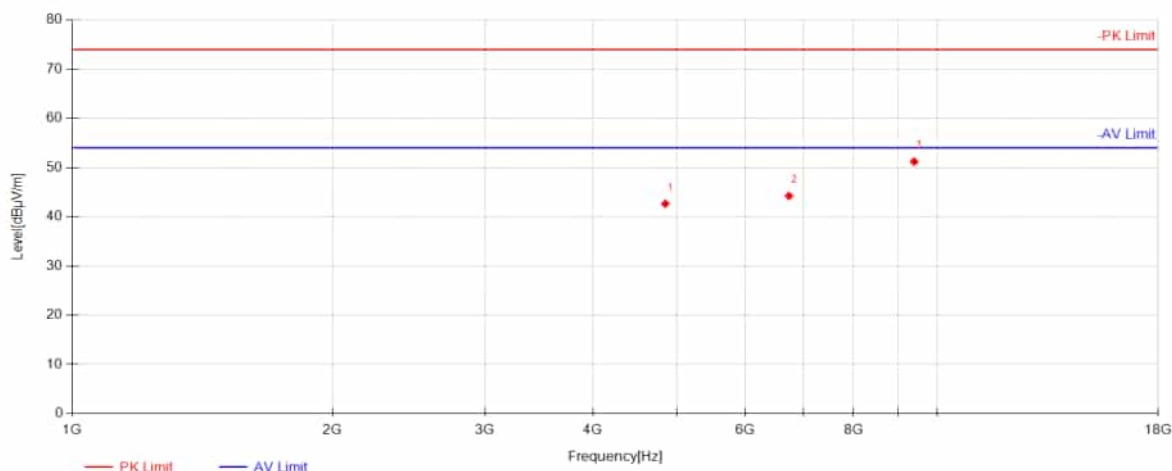
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4849.875	57.02	31.16	-45.54	42.64	74.00	31.36	Horizontal
2	6741.375	53.66	34.53	-43.96	44.24	74.00	29.76	Horizontal
3	9406.875	53.76	37.31	-39.86	51.22	74.00	22.78	Horizontal

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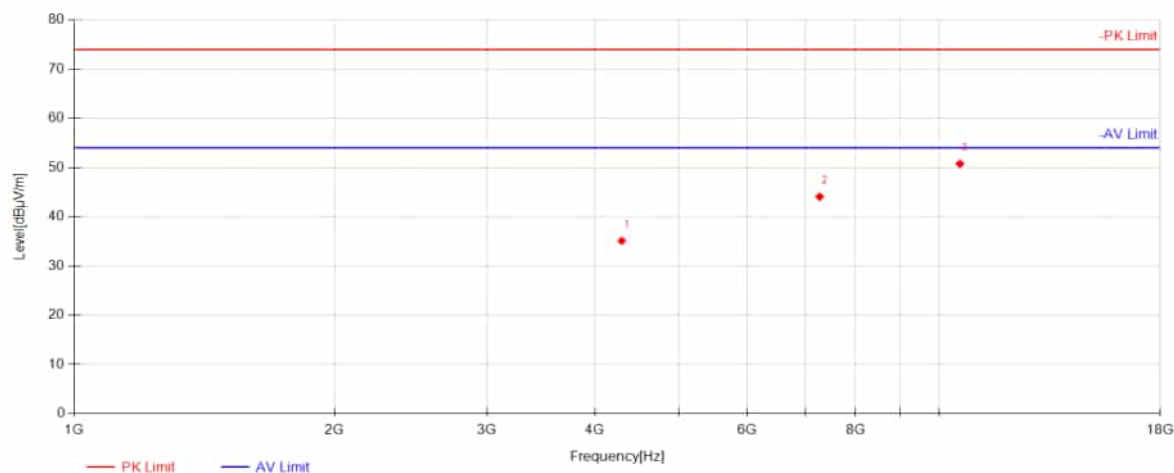
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4295.25	50.55	30.11	-45.55	35.11	74.00	38.89	Vertical
2	7276.125	51.98	35.77	-43.67	44.08	74.00	29.92	Vertical
3	10567.875	50.79	38.56	-38.58	50.77	74.00	23.23	Vertical

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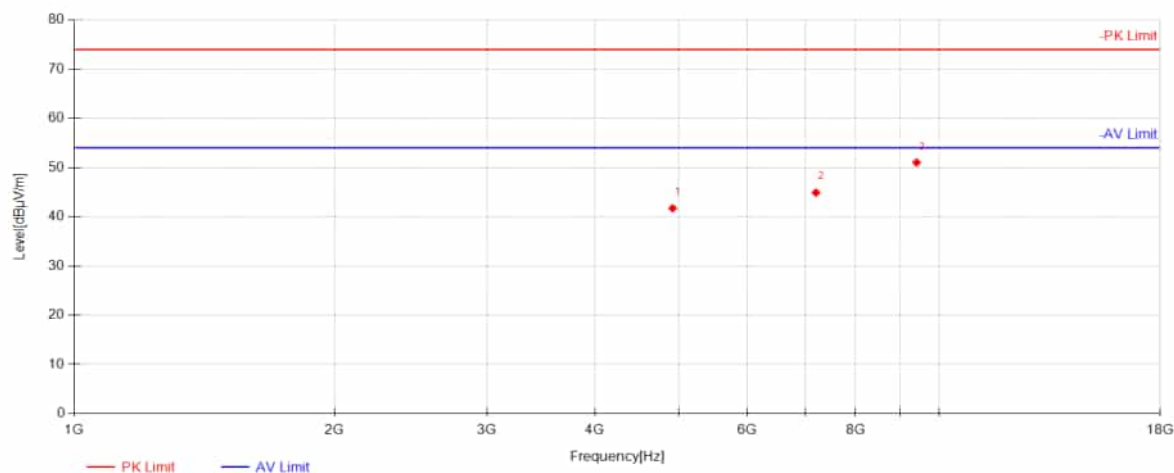
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4919.625	56.01	31.27	-45.55	41.73	74.00	32.27	Horizontal
2	7203	52.76	35.57	-43.43	44.90	74.00	29.10	Horizontal
3	9417.375	53.59	37.33	-39.90	51.03	74.00	22.97	Horizontal

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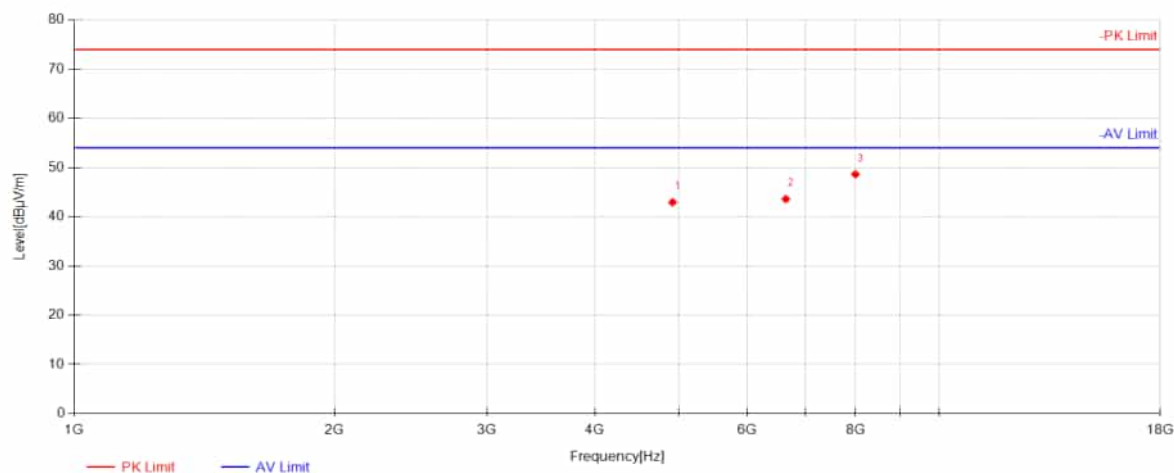
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4918.125	57.22	31.27	-45.55	42.94	74.00	31.06	Vertical
2	6649.5	53.31	34.37	-44.08	43.60	74.00	30.40	Vertical
3	8001	53.87	37.10	-42.34	48.63	74.00	25.37	Vertical

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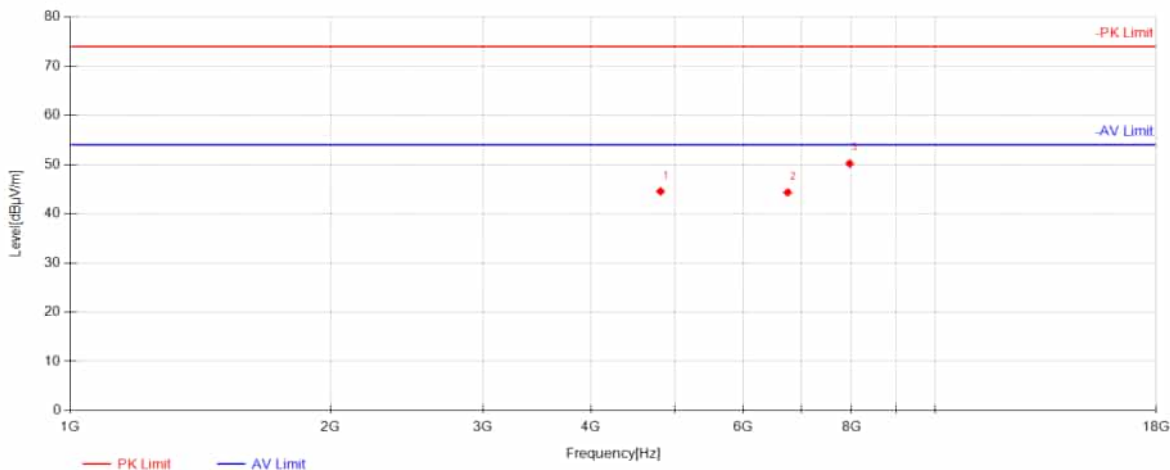
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802.11ax20_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4813.5	58.98	31.10	-45.54	44.54	74.00	29.46	Horizontal
2	6751.875	53.79	34.55	-44.00	44.35	74.00	29.65	Horizontal
3	7963.875	55.68	37.05	-42.52	50.21	74.00	23.79	Horizontal

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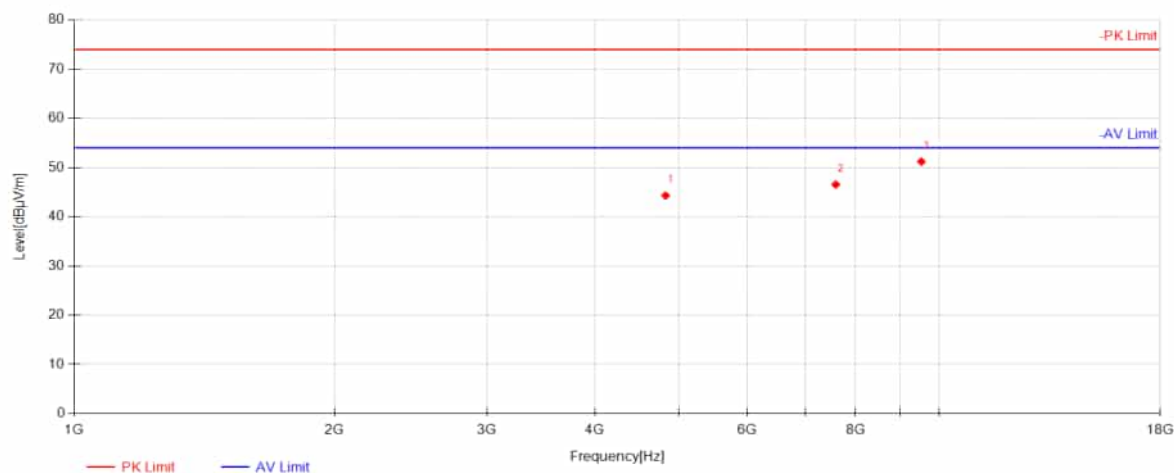
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802.11ax20_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4825.875	58.73	31.12	-45.54	44.31	74.00	29.69	Vertical
2	7595.625	52.95	36.53	-42.94	46.54	74.00	27.46	Vertical
3	9539.25	53.63	37.58	-40.01	51.20	74.00	22.80	Vertical

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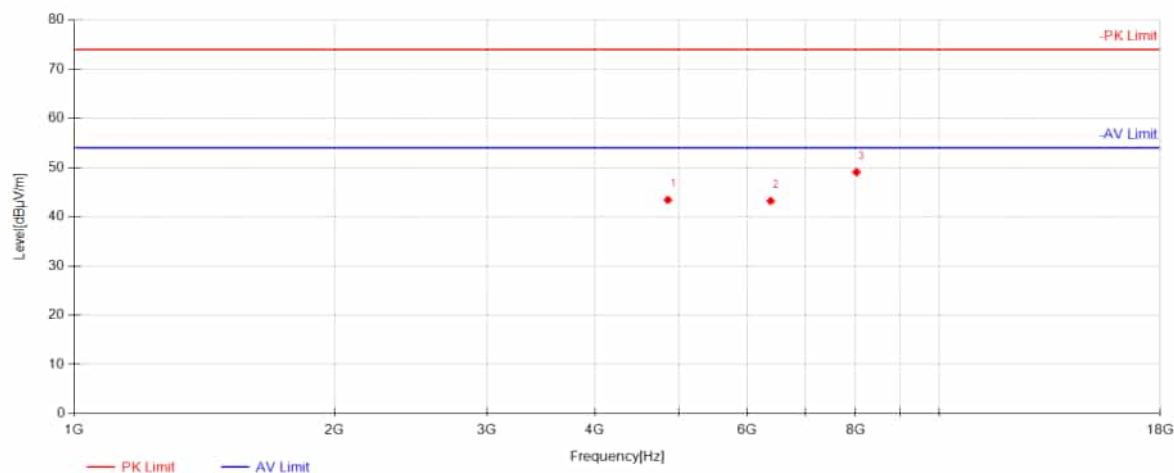
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802.11ax20_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4858.5	57.80	31.17	-45.53	43.44	74.00	30.56	Horizontal
2	6385.125	53.94	33.71	-44.43	43.22	74.00	30.78	Horizontal
3	8024.625	54.10	37.09	-42.11	49.08	74.00	24.92	Horizontal

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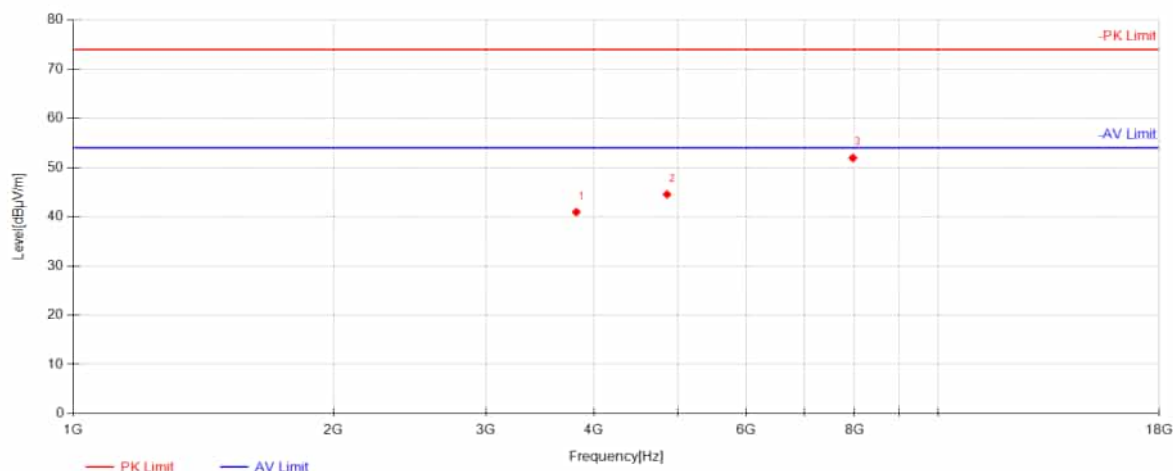
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Data List								
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1	3815.625	57.81	29.11	-45.98	40.94	74.00	33.06	Vertical
2	4858.5	58.90	31.17	-45.53	44.54	74.00	29.46	Vertical
3	7968	57.41	37.06	-42.50	51.96	74.00	22.04	Vertical

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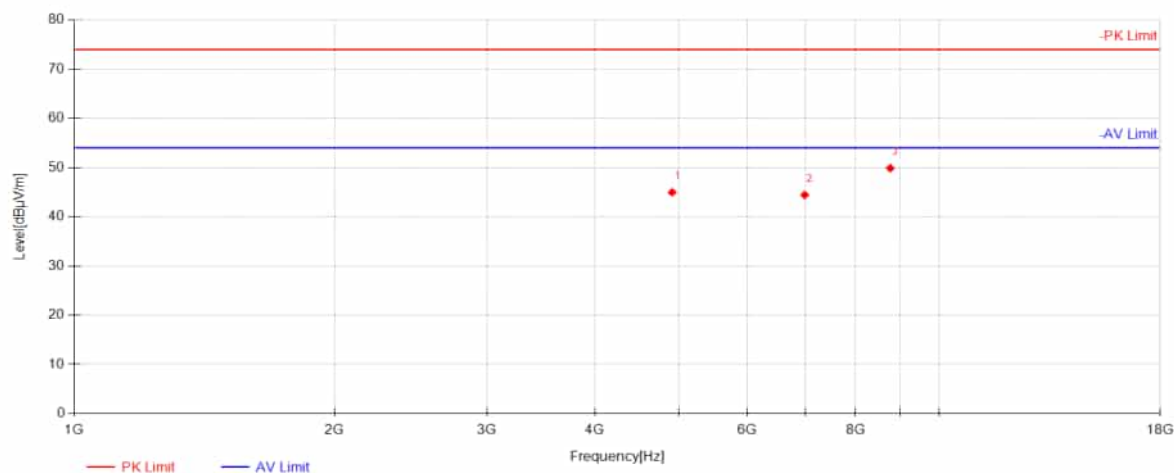
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4913.25	59.25	31.26	-45.54	44.97	74.00	29.03	Horizontal
2	6991.125	53.04	34.98	-43.60	44.43	74.00	29.57	Horizontal
3	8780.25	54.59	36.63	-41.34	49.88	74.00	24.12	Horizontal

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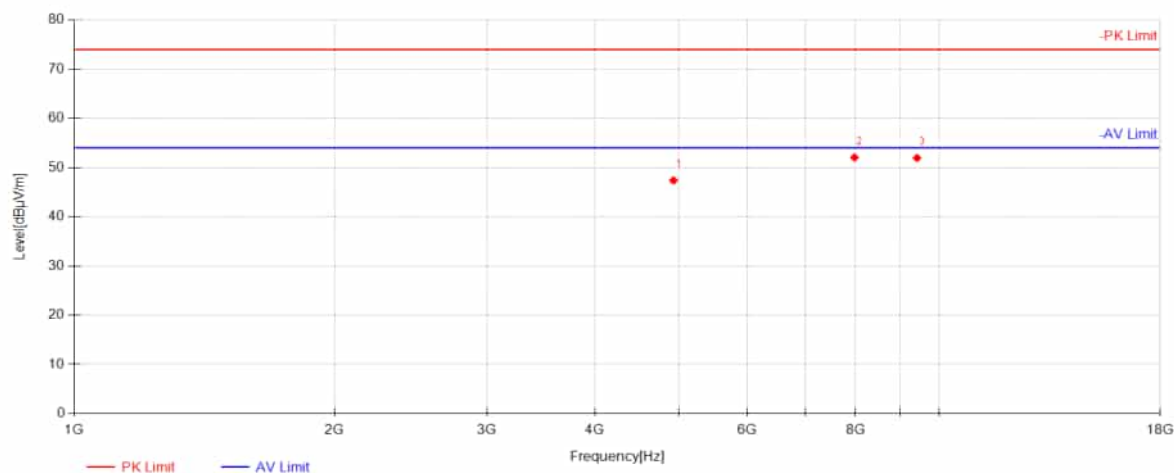
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4929.375	61.65	31.29	-45.56	47.37	74.00	26.63	Vertical
2	7981.5	57.42	37.07	-42.44	52.06	74.00	21.94	Vertical
3	9426.75	54.52	37.35	-39.94	51.94	74.00	22.06	Vertical

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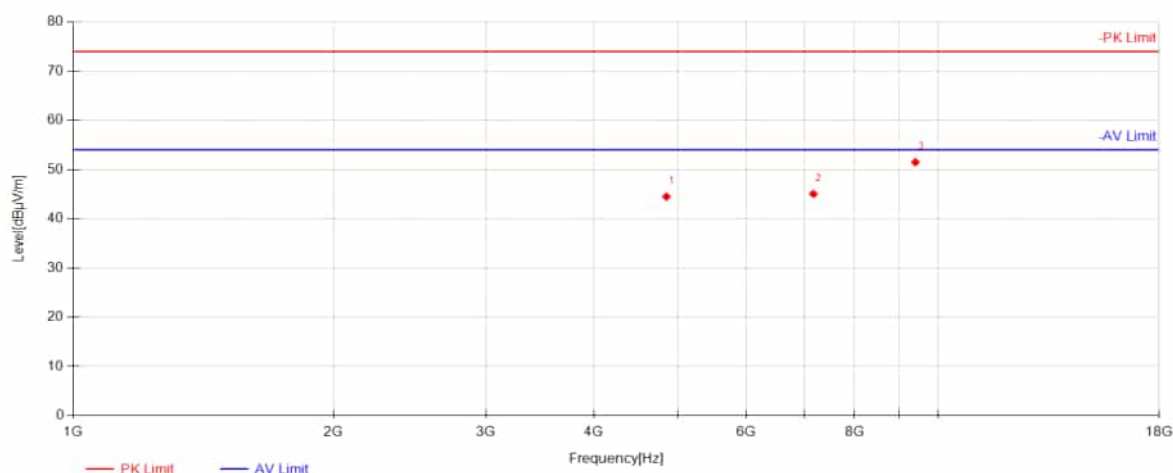
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802.11ax40_Channel 03



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4851	58.85	31.16	-45.53	44.48	74.00	29.52	Horizontal
2	7173	53.20	35.48	-43.63	45.05	74.00	28.95	Horizontal
3	9412.875	54.06	37.33	-39.88	51.50	74.00	22.50	Horizontal

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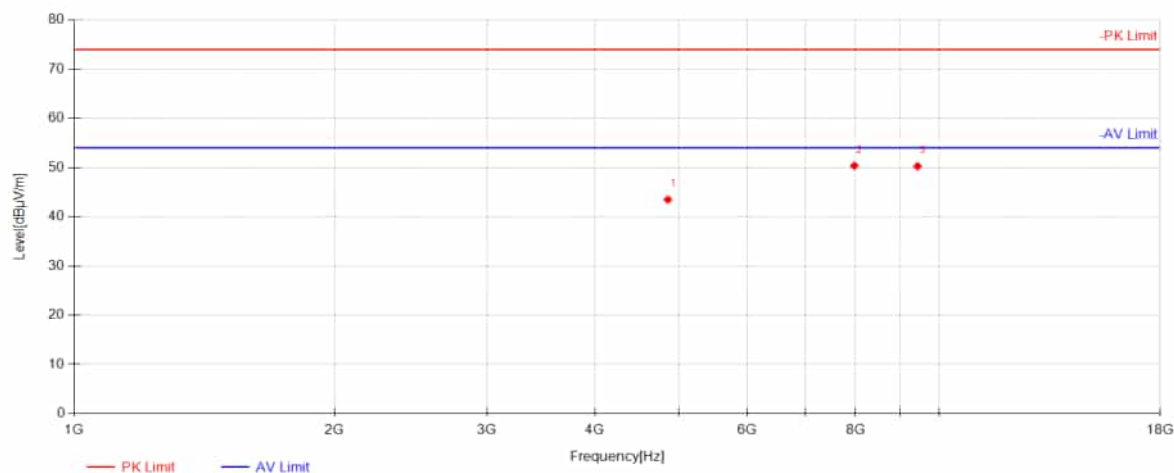
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802.11ax40_Channel 03



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4857.75	57.85	31.17	-45.53	43.49	74.00	30.51	Vertical
2	7978.875	55.73	37.07	-42.45	50.35	74.00	23.65	Vertical
3	9444	52.88	37.39	-40.01	50.26	74.00	23.74	Vertical

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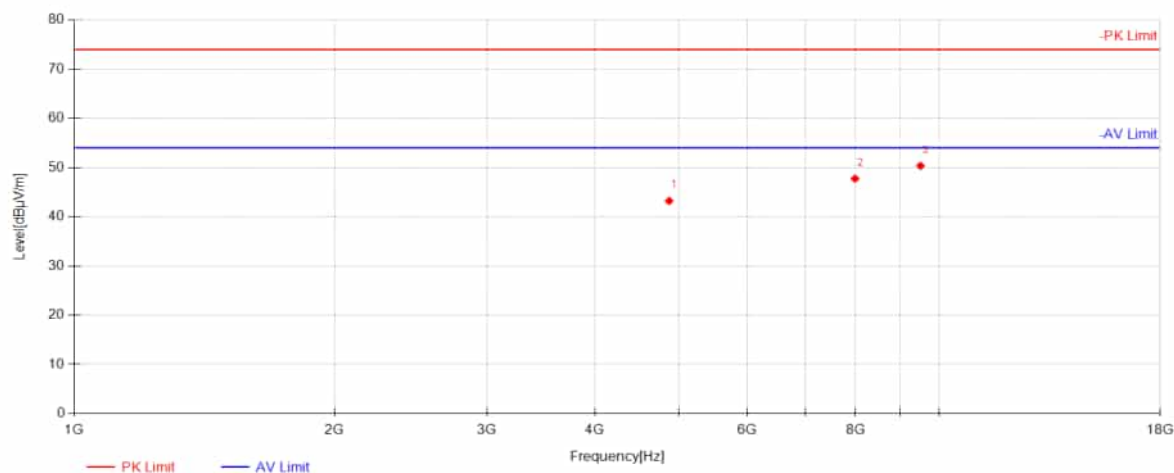
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802.11ax40_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4873.5	57.55	31.20	-45.53	43.21	74.00	30.79	Horizontal
2	7993.125	53.03	37.09	-42.38	47.74	74.00	26.26	Horizontal
3	9516	52.97	37.53	-40.14	50.36	74.00	23.64	Horizontal

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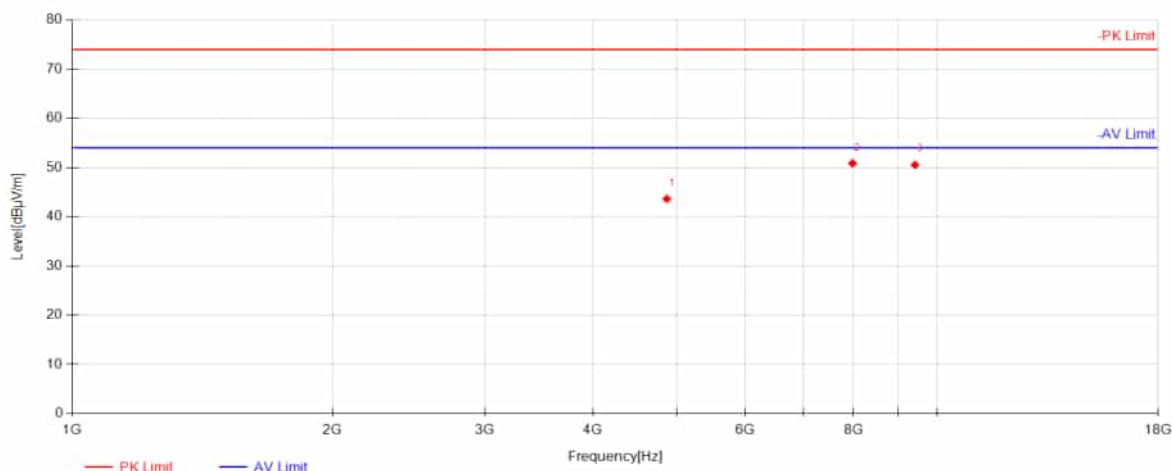
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4867.875	57.98	31.19	-45.53	43.64	74.00	30.36	Vertical
2	7983.75	56.21	37.08	-42.43	50.86	74.00	23.14	Vertical
3	9427.875	53.13	37.36	-39.94	50.54	74.00	23.46	Vertical

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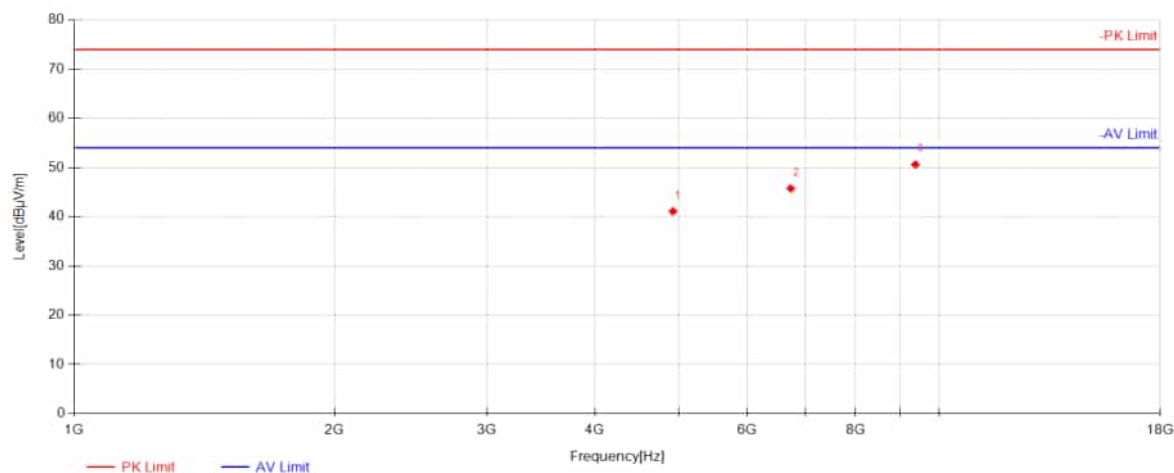
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802.11ax40_Channel 09



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4922.625	55.38	31.28	-45.55	41.10	74.00	32.90	Horizontal
2	6736.875	55.16	34.53	-43.94	45.74	74.00	28.26	Horizontal
3	9387.375	53.22	37.27	-39.88	50.62	74.00	23.38	Horizontal

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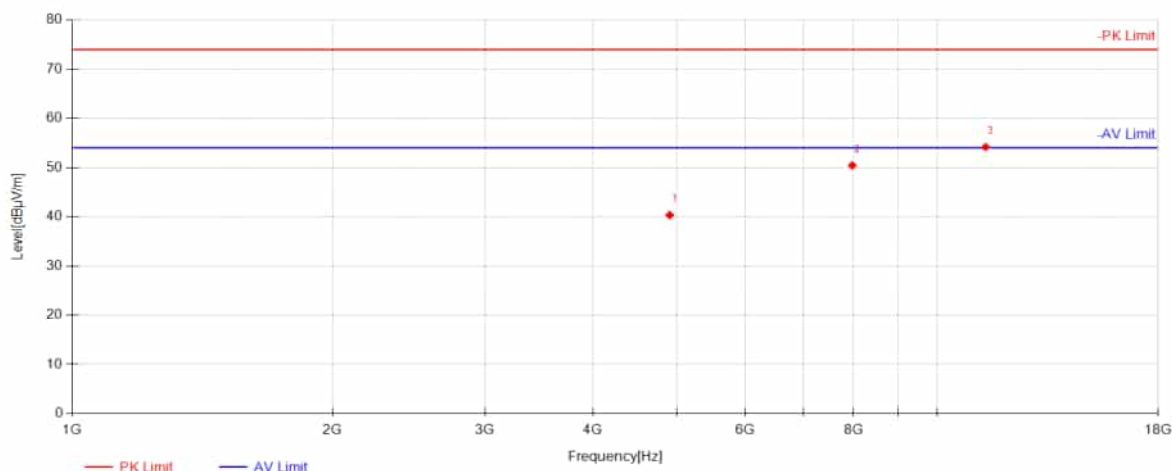
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4905.75	54.62	31.25	-45.54	40.33	74.00	33.67	Vertical
2	7976.625	55.82	37.07	-42.46	50.43	74.00	23.57	Vertical
3	11375.625	52.76	38.79	-37.38	54.17	74.00	19.83	Vertical

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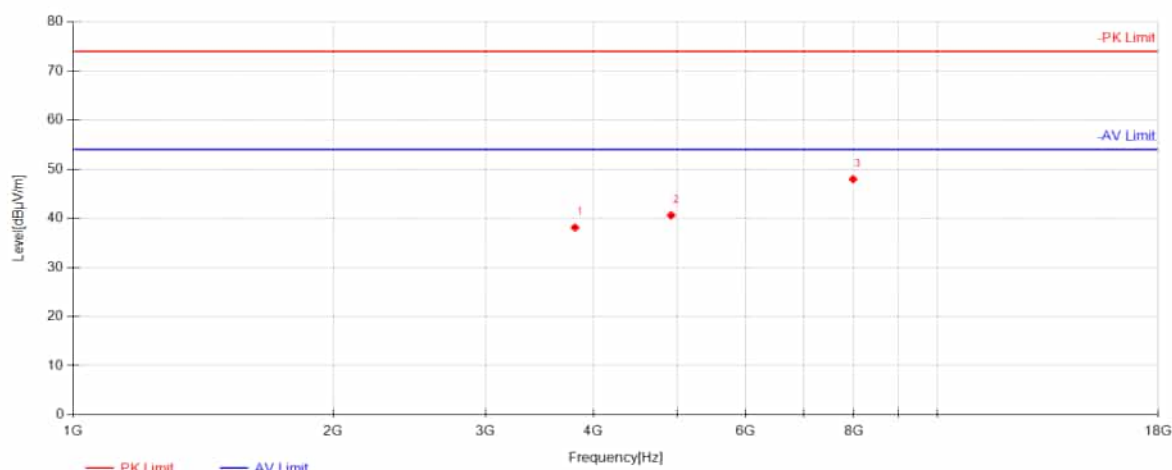
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802.11ax40_Channel 08



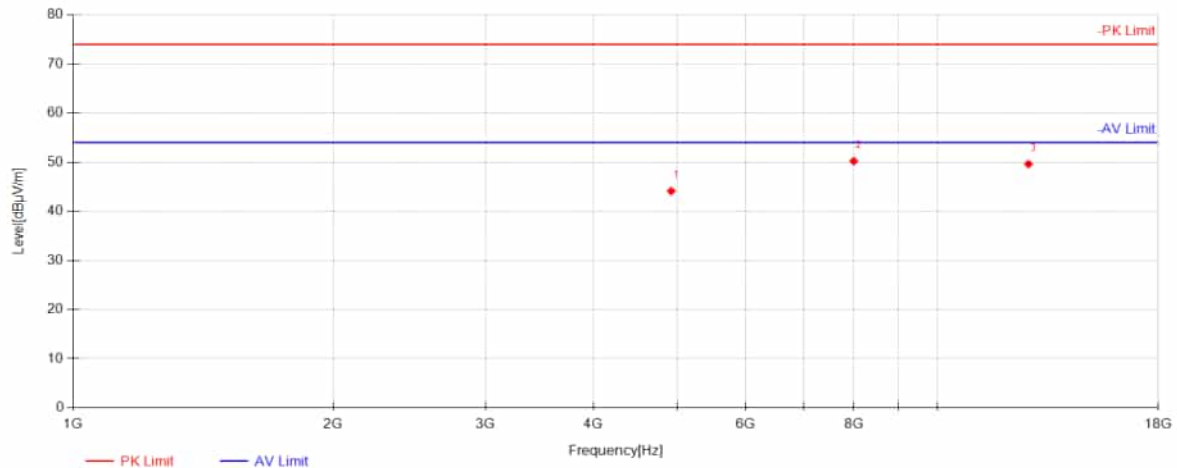
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1	3807.375	54.97	29.09	-45.95	38.12	74.00	35.88	Horizontal
2	4919.625	54.89	31.27	-45.55	40.61	74.00	33.39	Horizontal
3	7987.875	53.28	37.08	-42.41	47.96	74.00	26.04	Horizontal

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802.11ax40_Channel 08



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4920.375	58.41	31.27	-45.55	44.13	74.00	29.87	Vertical
2	8001	55.46	37.10	-42.34	50.22	74.00	23.78	Vertical
3	12748.5	47.06	39.32	-36.75	49.63	74.00	24.37	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$
- All channels have been tested, but only the worst case data displayed in this report.
- Both peak and average measured complies with the limit line, so test result is "PASS"

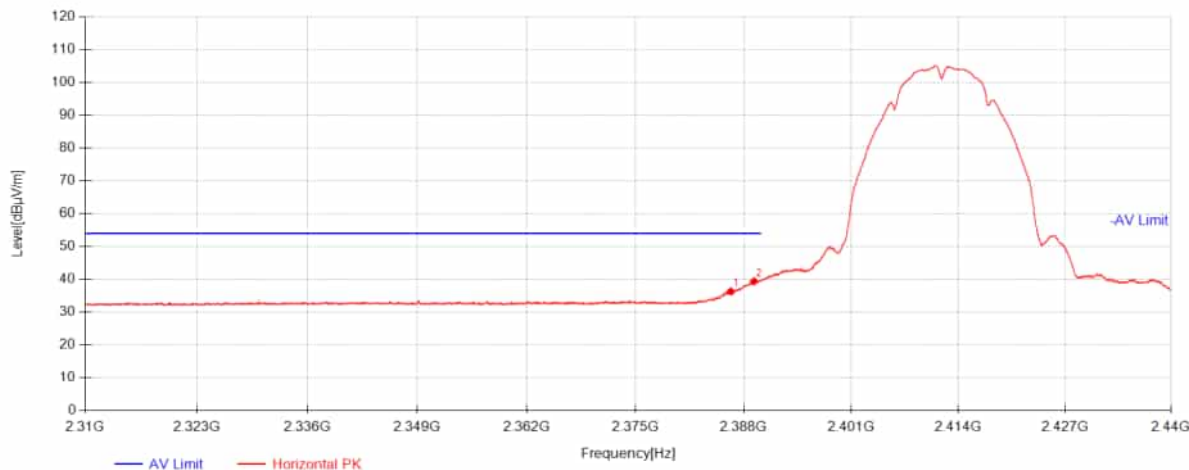
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Restricted bands around fundamental frequency

802.11b_Channel 01



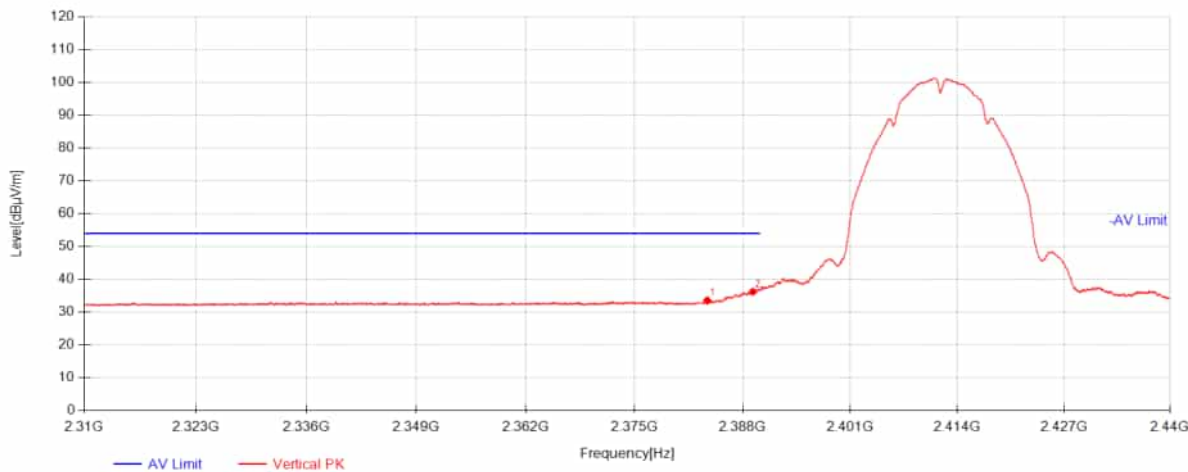
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2386.44	32.90	26.97	-23.57	36.30	54.00	17.70	Horizontal
2	2389.235	35.95	26.98	-23.57	39.36	54.00	14.64	Horizontal

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802.11b_Channel 01



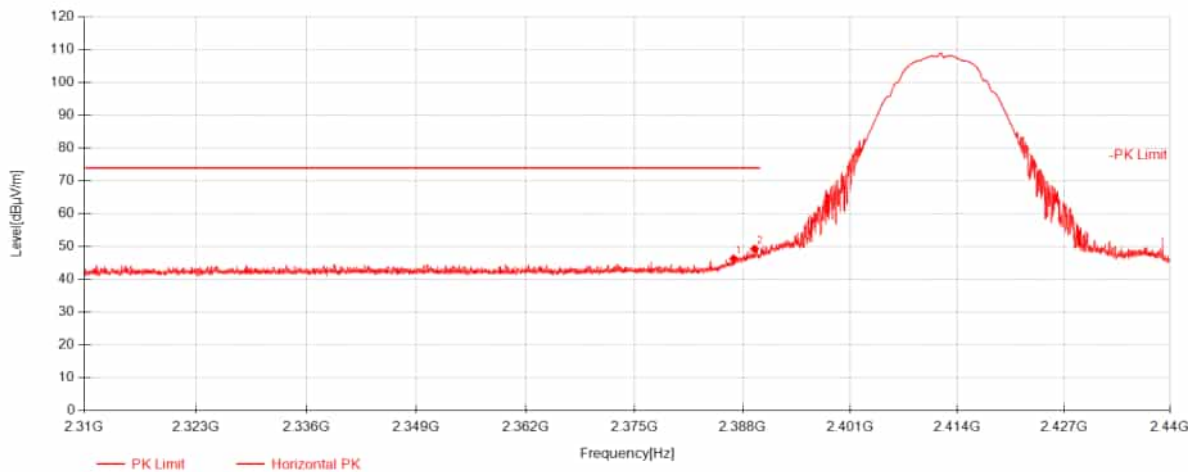
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2383.7262	30.16	26.97	-23.57	33.56	54.00	20.44	Vertical
2	2389.2188	32.80	26.98	-23.57	36.21	54.00	17.79	Vertical

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802.11b_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2386.895	42.91	26.97	-23.57	46.31	74.00	27.69	Horizontal
2	2389.43	45.92	26.98	-23.57	49.33	74.00	24.67	Horizontal

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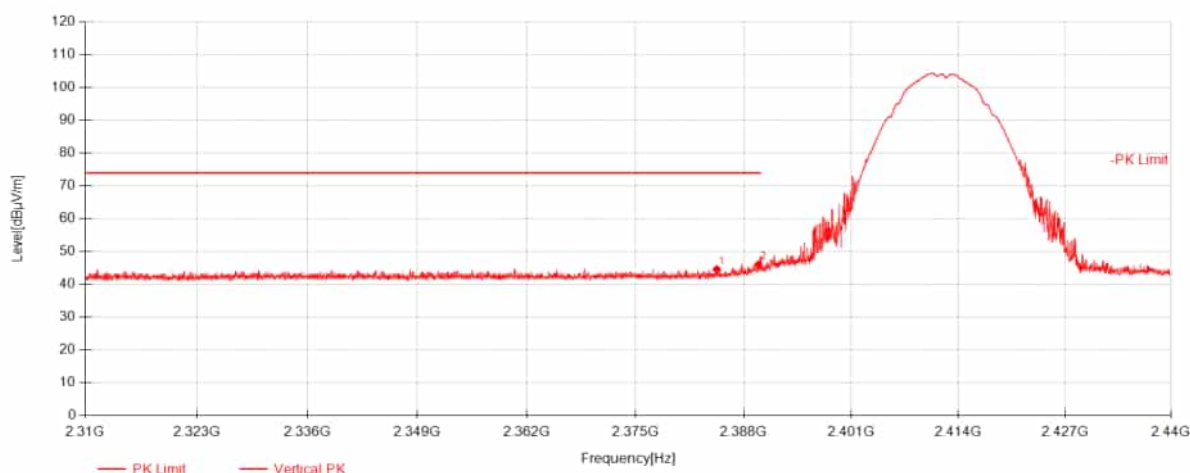
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

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802.11b_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2384.75	41.18	26.97	-23.57	44.58	74.00	29.42	Vertical
2	2389.7712	42.58	26.98	-23.57	45.99	74.00	28.01	Vertical

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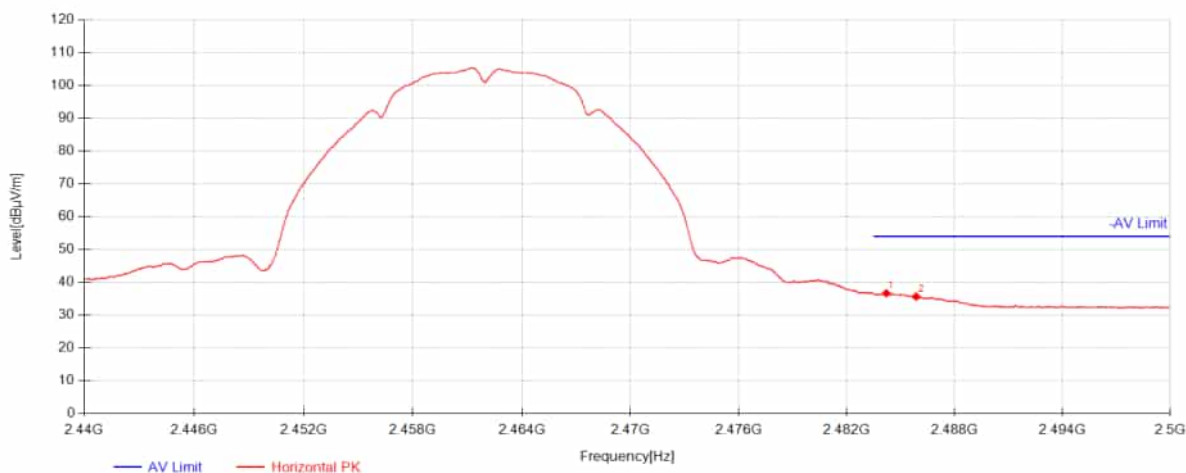
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.1825	33.04	27.17	-23.54	36.66	54.00	17.34	Horizontal
2	2485.84	32.02	27.17	-23.54	35.65	54.00	18.35	Horizontal

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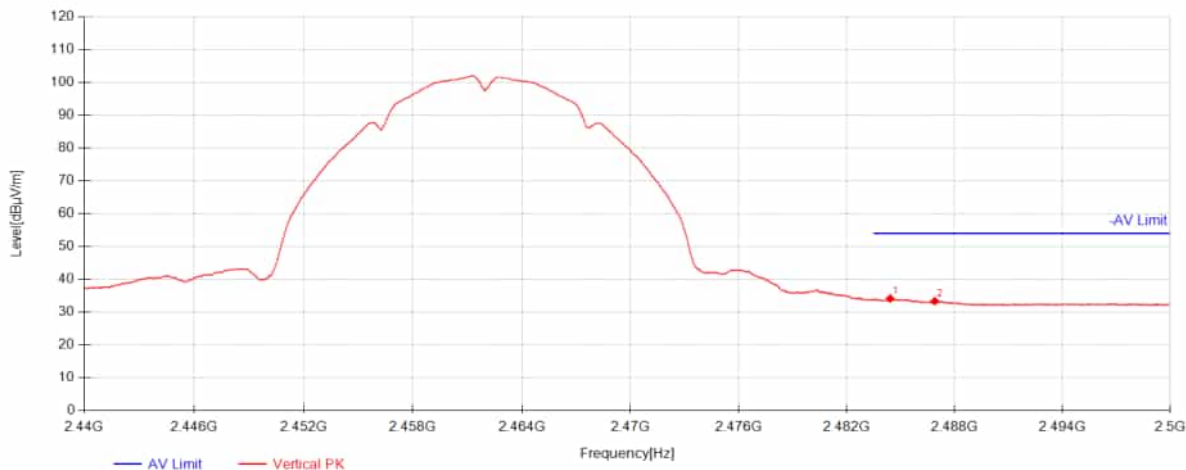
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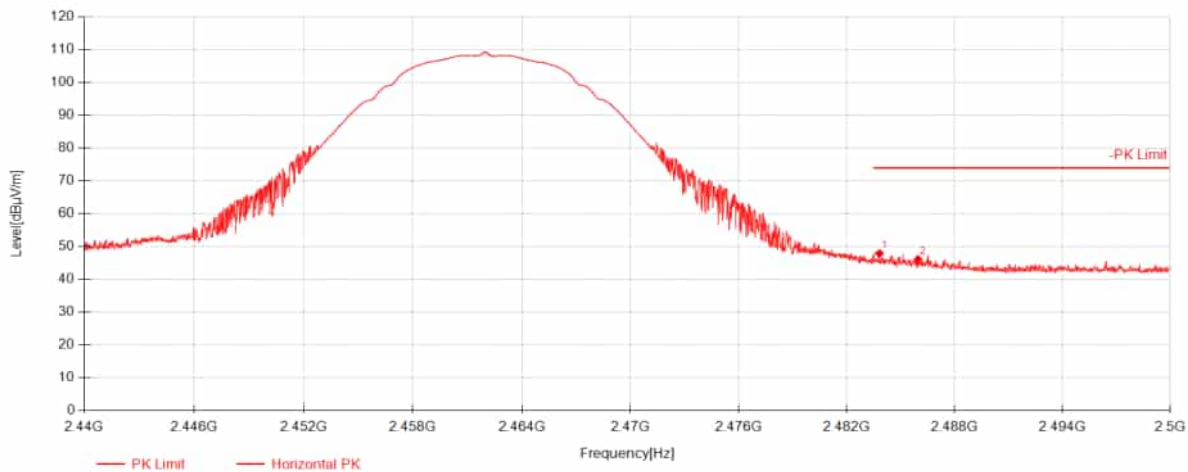
Data List								
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1	2484.4	30.50	27.17	-23.54	34.12	54.00	19.88	Vertical
2	2486.8825	29.71	27.17	-23.54	33.34	54.00	20.66	Vertical

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802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.8	44.27	27.17	-23.54	47.89	74.00	26.11	Horizontal
2	2485.945	42.46	27.17	-23.54	46.09	74.00	27.91	Horizontal

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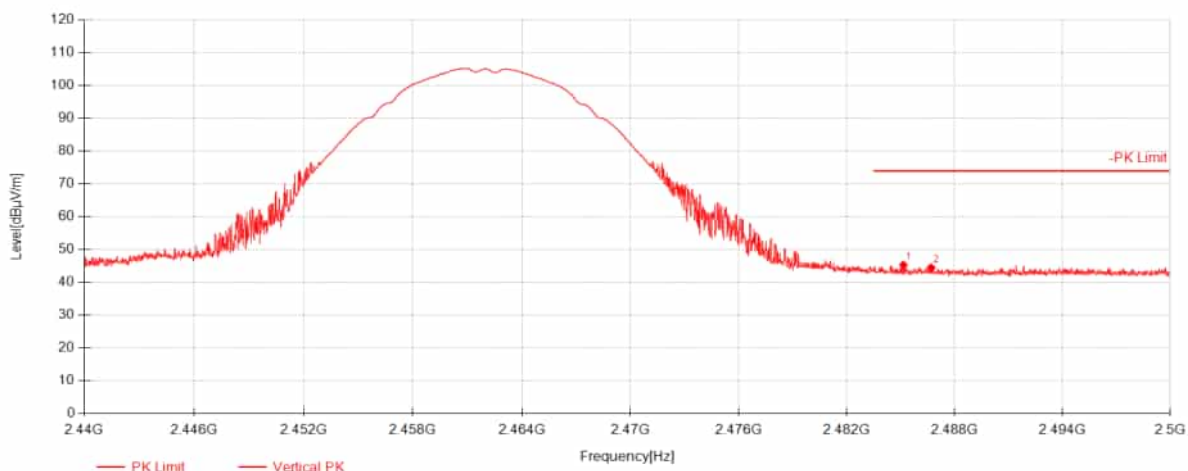
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.135	41.67	27.17	-23.54	45.30	74.00	28.70	Vertical
2	2486.68	40.88	27.17	-23.54	44.51	74.00	29.49	Vertical

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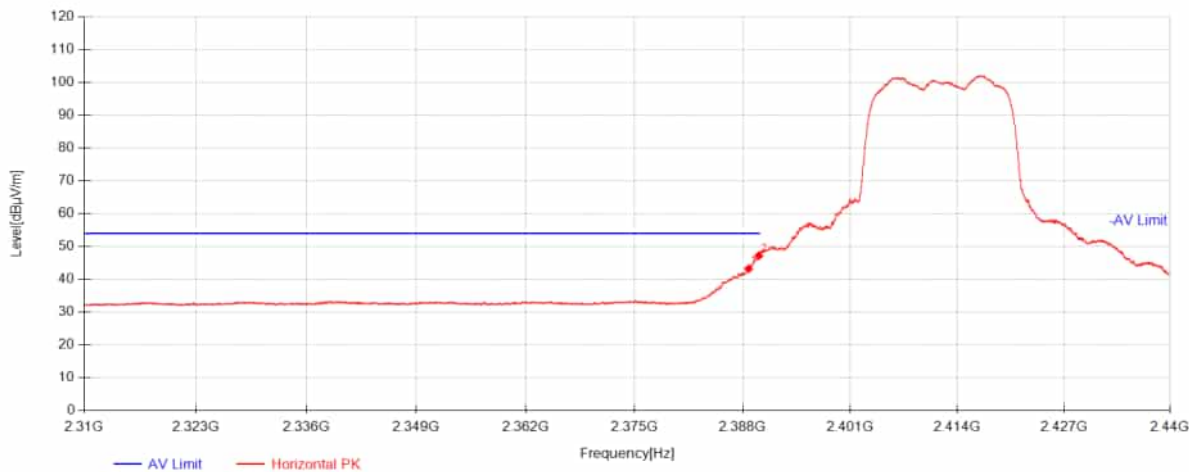
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2388.6988	39.82	26.98	-23.57	43.23	54.00	10.77	Horizontal
2	2389.9338	43.80	26.98	-23.57	47.21	54.00	6.79	Horizontal

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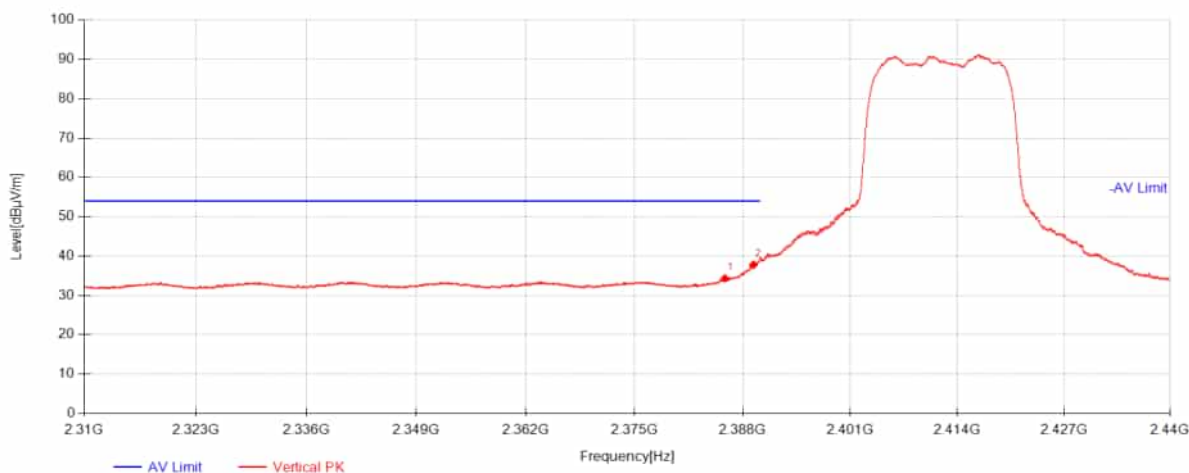
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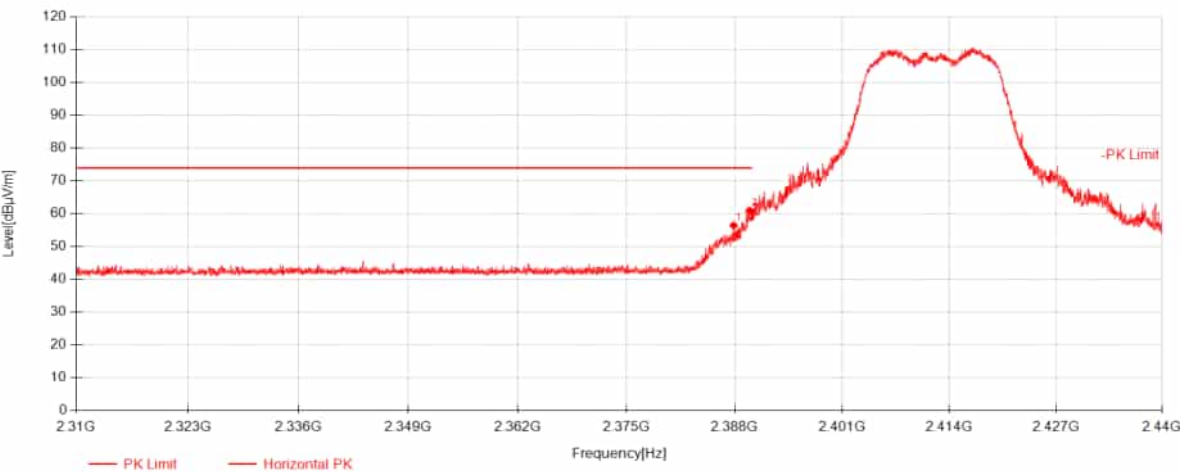
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2385.855	30.93	26.97	-23.57	34.33	54.00	19.67	Vertical
2	2389.2838	34.40	26.98	-23.57	37.81	54.00	16.19	Vertical

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.87	53.03	26.98	-23.57	56.43	74.00	17.57	Horizontal
2	2389.7875	57.57	26.98	-23.57	60.98	74.00	13.02	Horizontal

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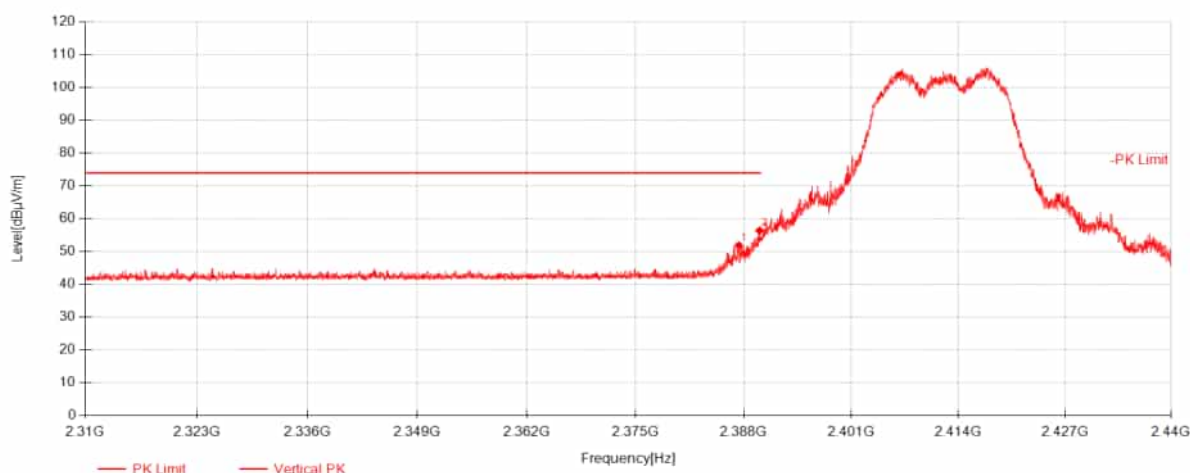
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.3988	48.44	26.97	-23.57	51.84	74.00	22.16	Vertical
2	2389.9012	52.98	26.98	-23.57	56.39	74.00	17.61	Vertical

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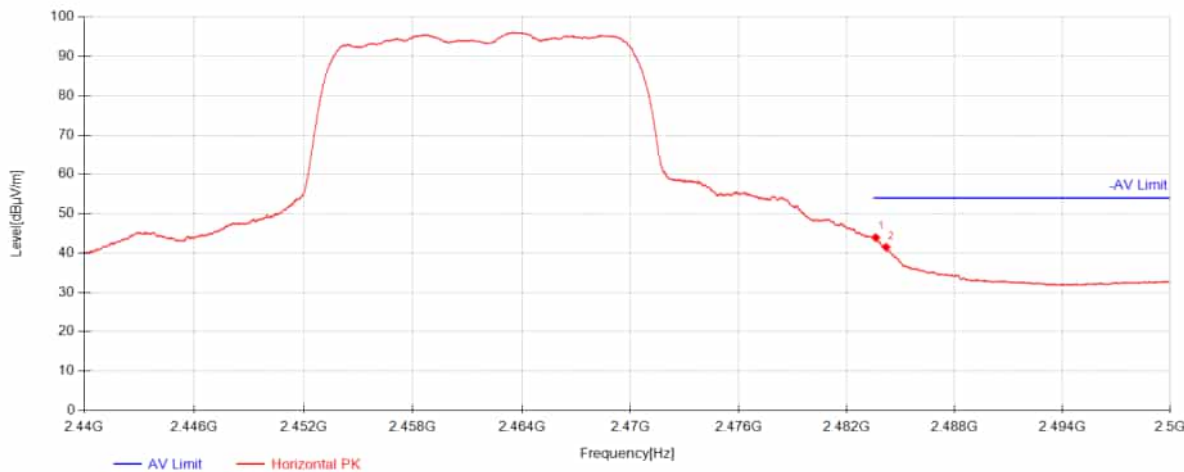
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.5975	40.32	27.17	-23.54	43.94	54.00	10.06	Horizontal
2	2484.175	37.90	27.17	-23.54	41.52	54.00	12.48	Horizontal

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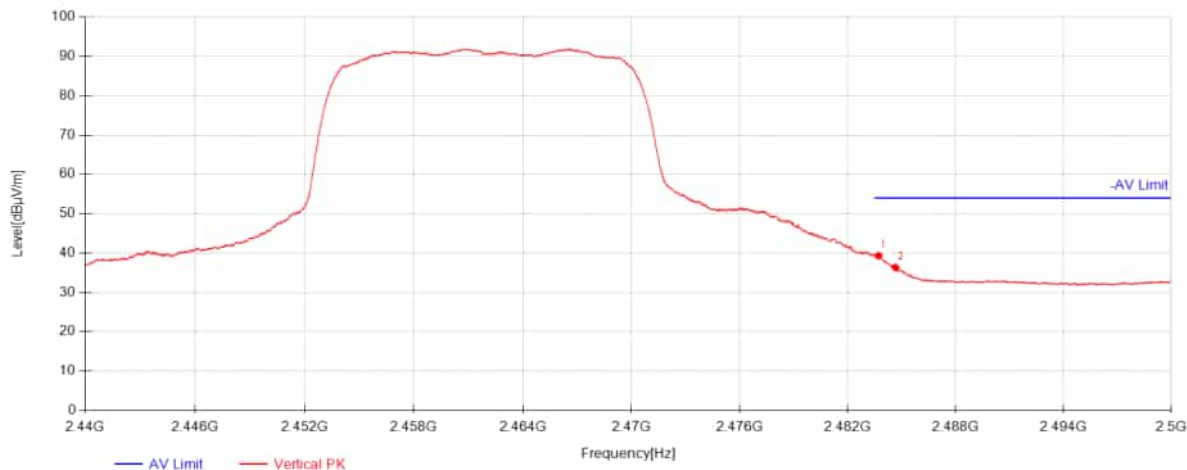
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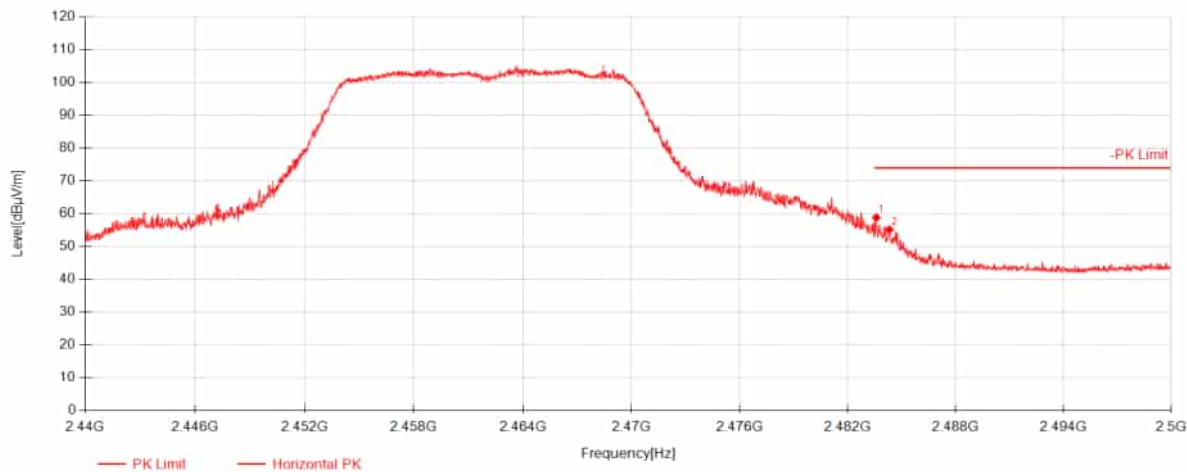
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1	2483.6875	35.71	27.17	-23.54	39.33	54.00	14.67	Vertical
2	2484.64	32.71	27.17	-23.54	36.33	54.00	17.67	Vertical

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802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.575	55.22	27.17	-23.54	58.84	74.00	15.16	Horizontal
2	2484.295	51.56	27.17	-23.54	55.18	74.00	18.82	Horizontal

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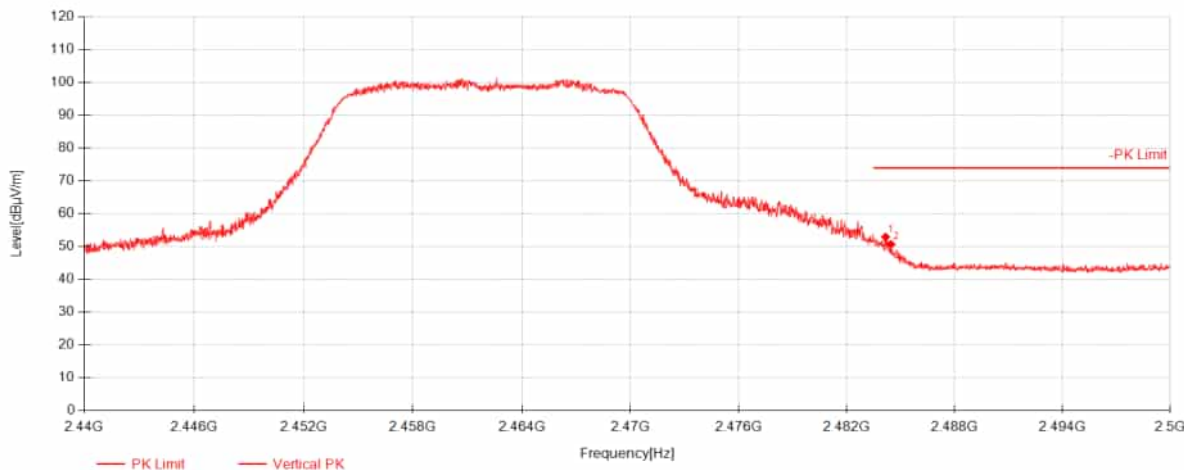
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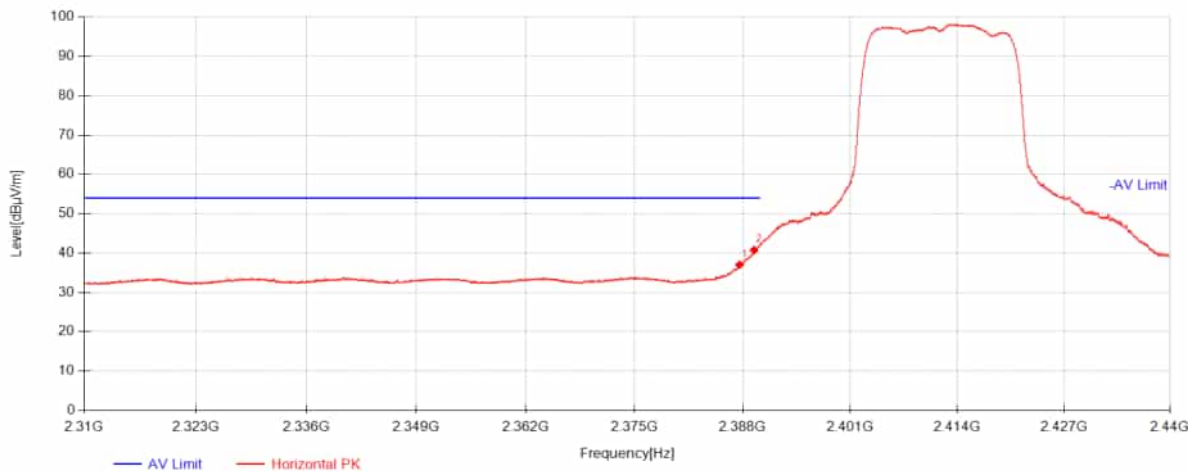
Data List								
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1	2484.145	49.28	27.17	-23.54	52.90	74.00	21.10	Vertical
2	2484.445	47.08	27.17	-23.54	50.70	74.00	23.30	Vertical

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802.11n20_Channel 01



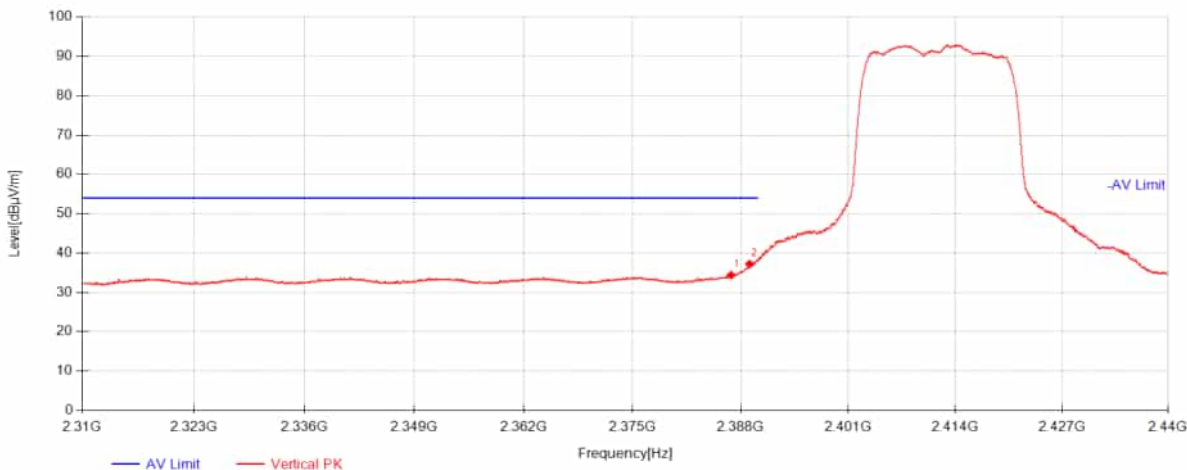
Data List								
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1	2387.61	33.63	26.98	-23.57	37.03	54.00	16.97	Horizontal
2	2389.365	37.33	26.98	-23.57	40.74	54.00	13.26	Horizontal

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802.11n20_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2386.83	30.99	26.97	-23.57	34.39	54.00	19.61	Vertical
2	2389.0562	33.80	26.98	-23.57	37.21	54.00	16.79	Vertical

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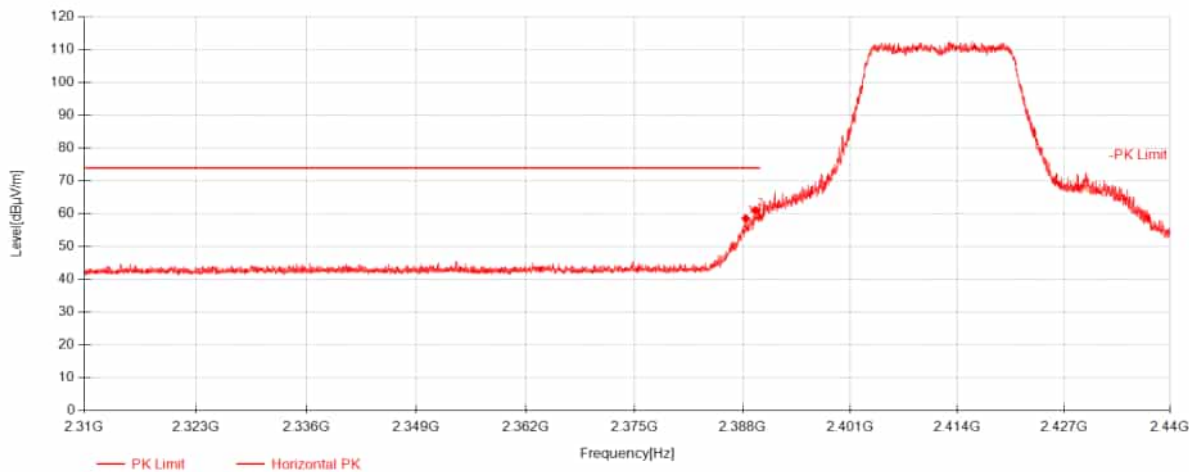
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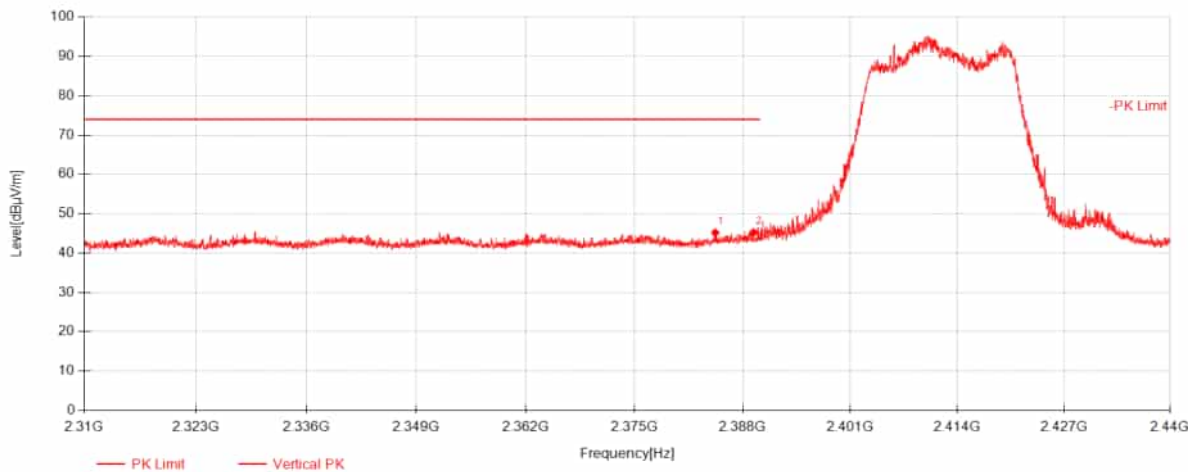
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1	2388.3575	55.14	26.98	-23.57	58.55	74.00	15.45	Horizontal
2	2389.5112	57.69	26.98	-23.57	61.10	74.00	12.90	Horizontal

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802.11n20_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2384.685	41.80	26.97	-23.57	45.20	74.00	28.80	Vertical
2	2389.3	41.84	26.98	-23.57	45.25	74.00	28.75	Vertical

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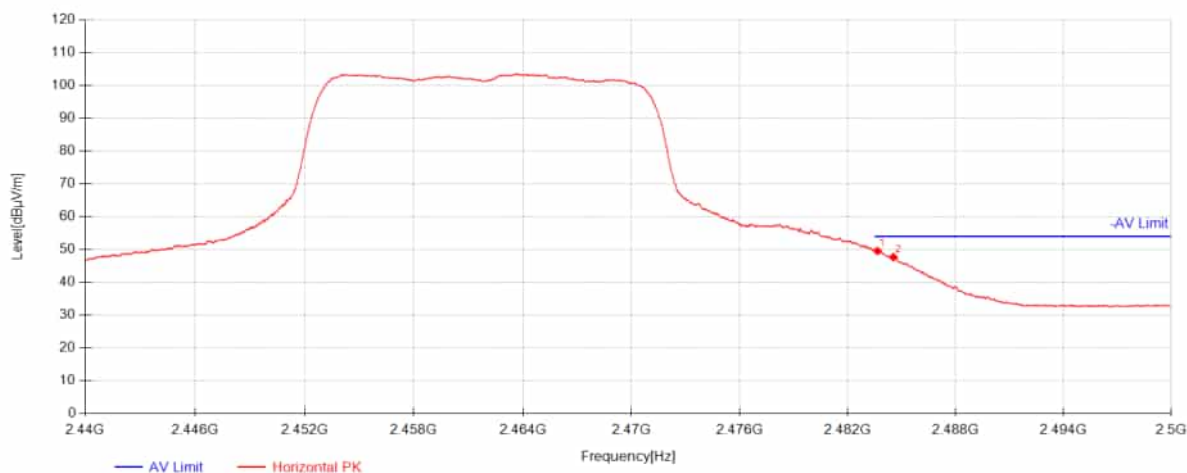
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.635	45.94	27.17	-23.54	49.56	54.00	4.44	Horizontal
2	2484.52	44.05	27.17	-23.54	47.67	54.00	6.33	Horizontal

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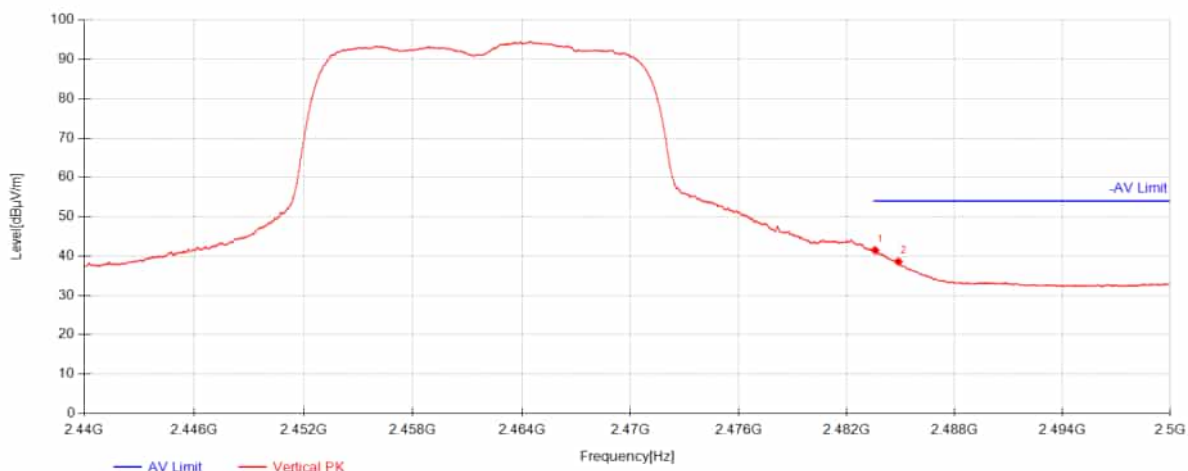
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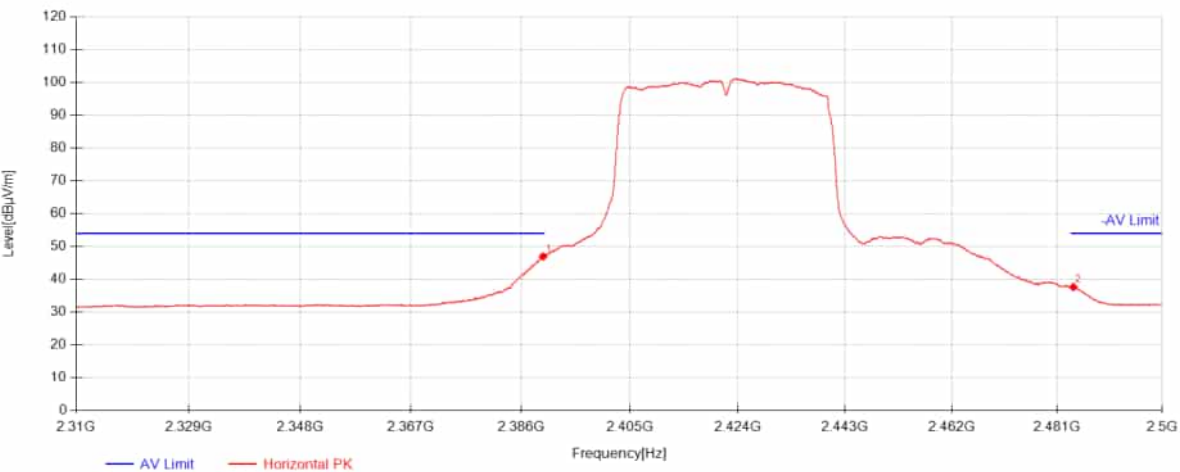
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2	2484.8575	34.97	27.17	-23.54	38.60	54.00	15.40	Vertical

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802.11n40_Channel 03



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.8633	43.57	26.98	-23.57	46.98	54.00	7.02	Horizontal
2	2483.92	34.01	27.17	-23.54	37.63	54.00	16.37	Horizontal

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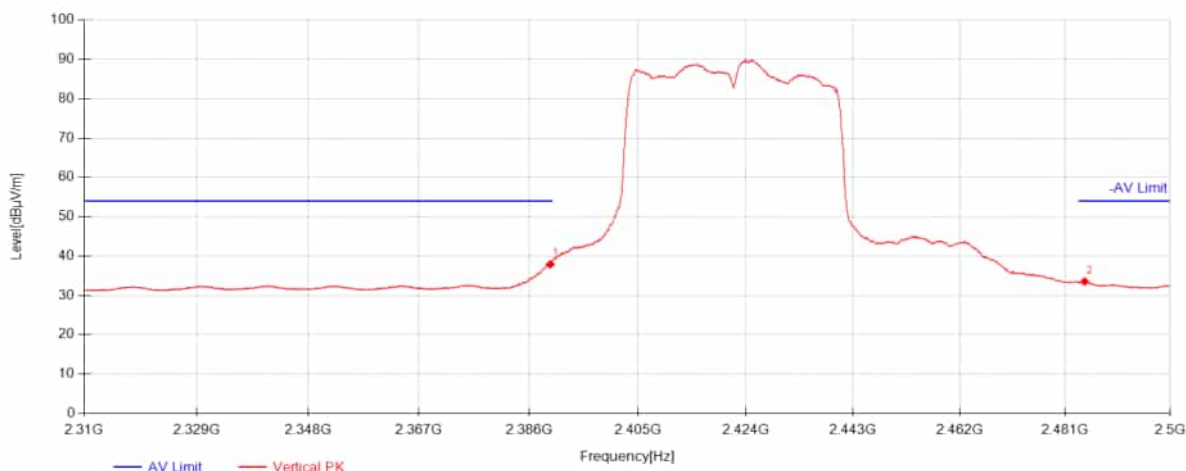
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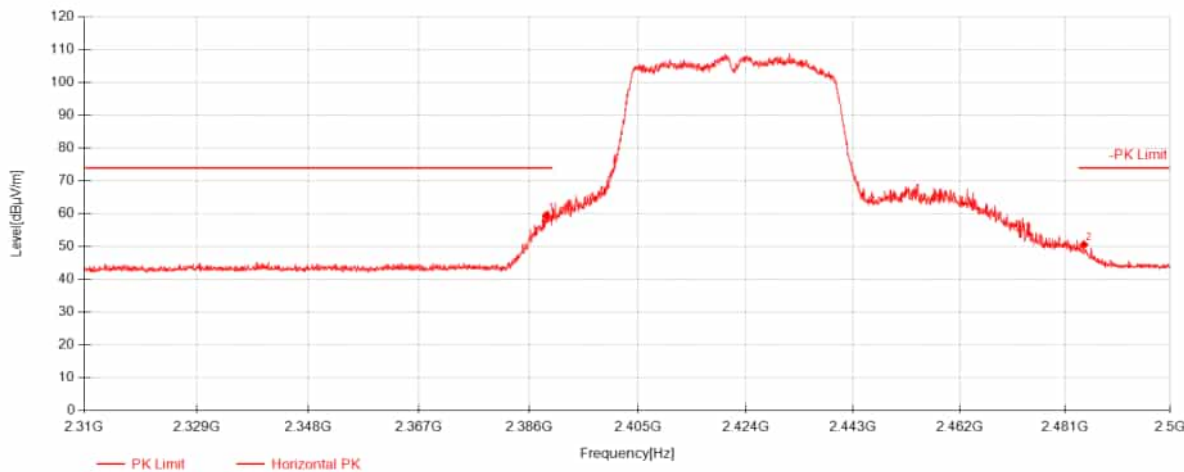
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1	2389.7333	34.51	26.98	-23.57	37.92	54.00	16.08	Vertical
2	2484.52	29.93	27.17	-23.54	33.55	54.00	20.45	Vertical

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.04	56.11	26.98	-23.57	59.52	74.00	14.48	Horizontal
2	2484.4	46.93	27.17	-23.54	50.55	74.00	23.45	Horizontal

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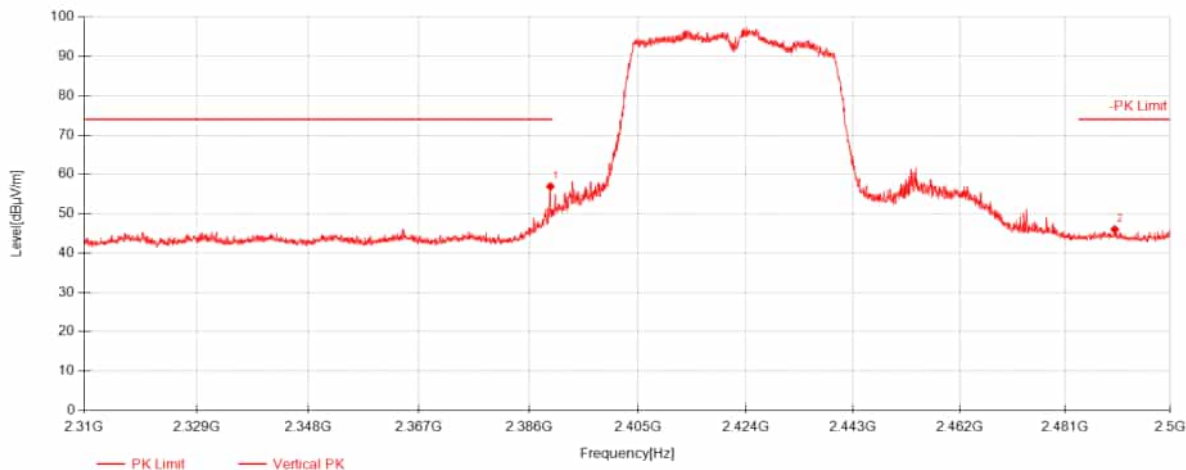
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.7333	53.52	26.98	-23.57	56.93	74.00	17.07	Vertical
2	2489.98	42.38	27.18	-23.54	46.02	74.00	27.98	Vertical

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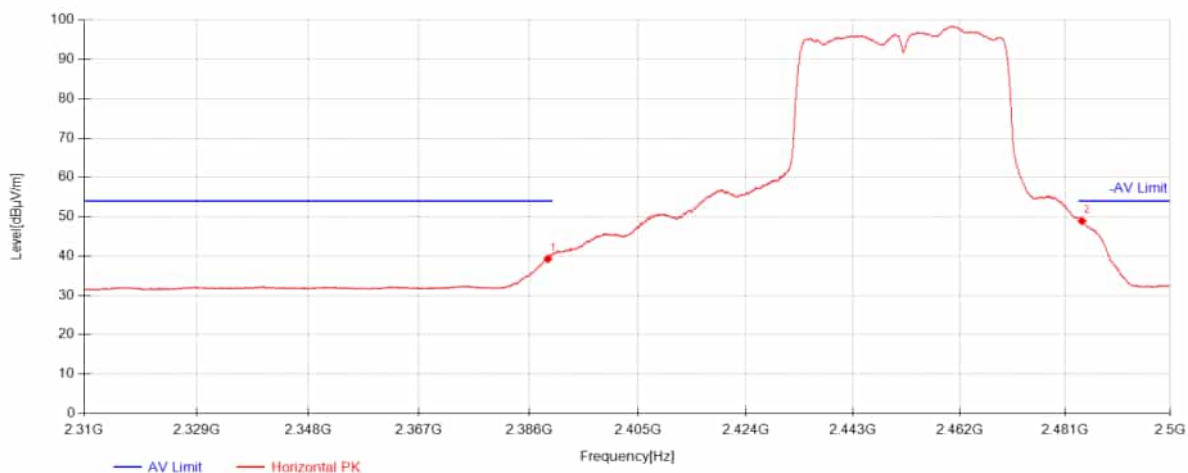
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.3	35.86	26.98	-23.57	39.27	54.00	14.73	Horizontal
2	2484.04	45.32	27.17	-23.54	48.94	54.00	5.06	Horizontal

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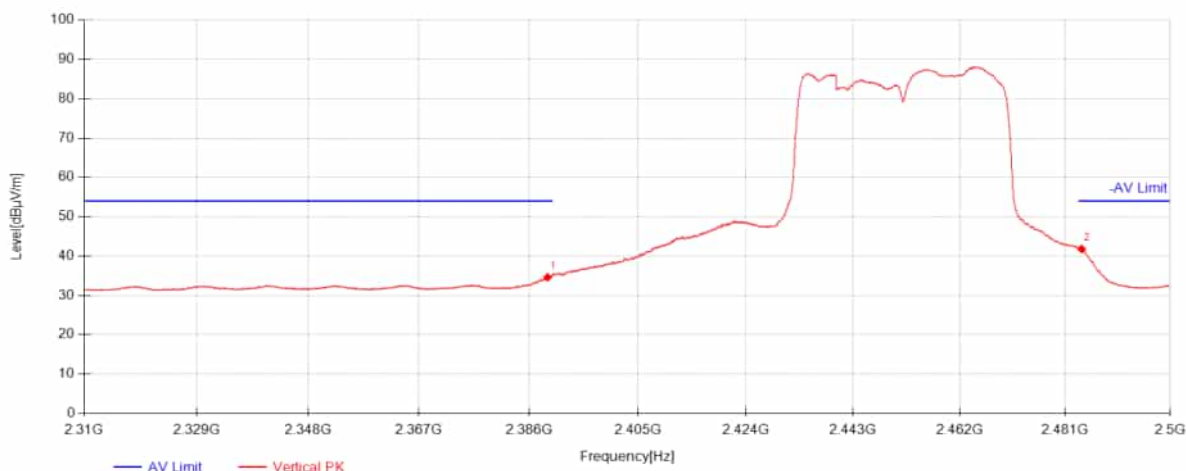
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

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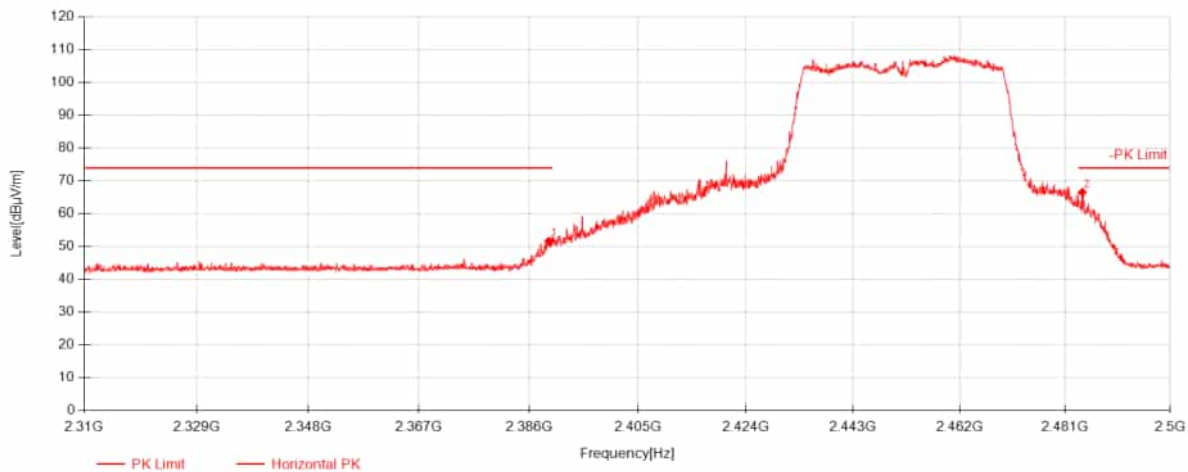
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2	2483.98	38.17	27.17	-23.54	41.79	54.00	12.21	Vertical

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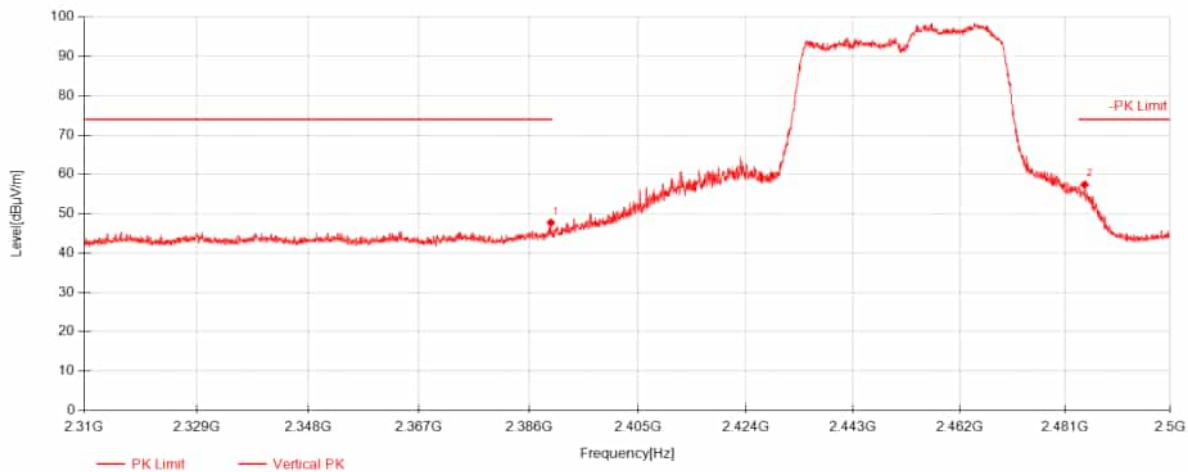
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2	2484.1	62.96	27.17	-23.54	66.58	74.00	7.42	Horizontal

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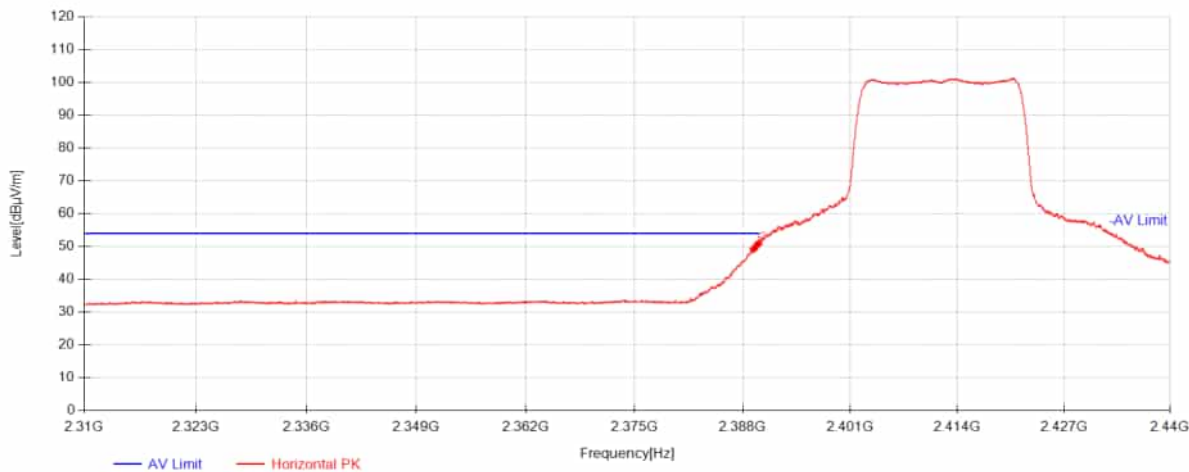
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2	2484.52	53.79	27.17	-23.54	57.41	74.00	16.59	Vertical

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802.11ax20_Channel 01



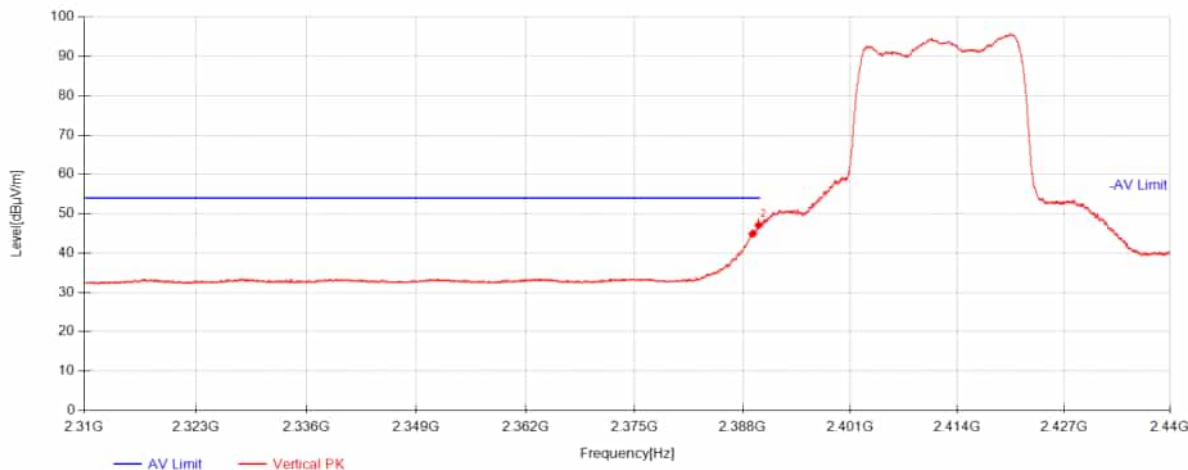
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1	2389.3488	45.93	26.98	-23.57	49.34	54.00	4.66	Horizontal
2	2389.8525	47.40	26.98	-23.57	50.81	54.00	3.19	Horizontal

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.2025	41.51	26.98	-23.57	44.92	54.00	9.08	Vertical
2	2389.9175	43.69	26.98	-23.57	47.10	54.00	6.90	Vertical

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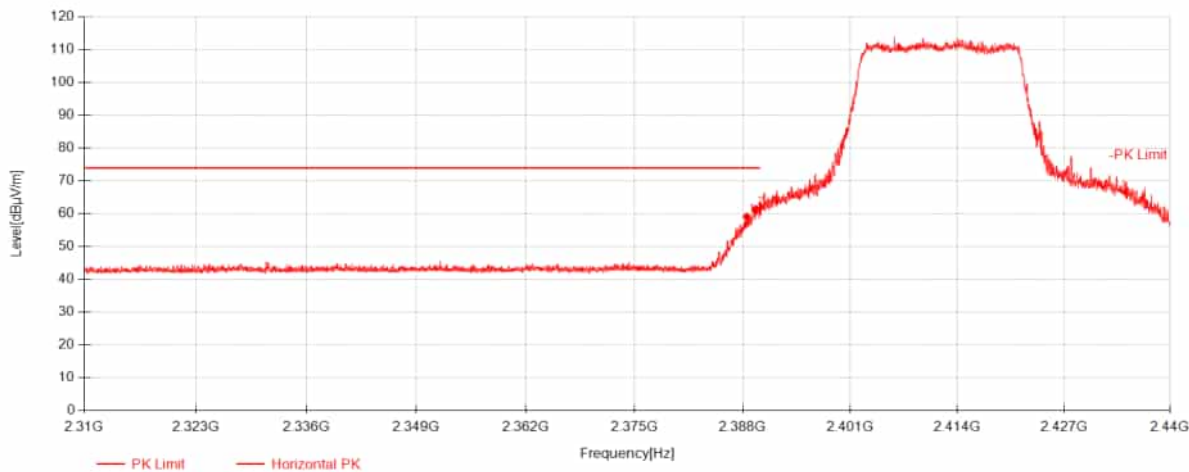
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Data List								
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1	2388.4875	55.66	26.98	-23.57	59.07	74.00	14.93	Horizontal
2	2389.56	58.03	26.98	-23.57	61.44	74.00	12.56	Horizontal

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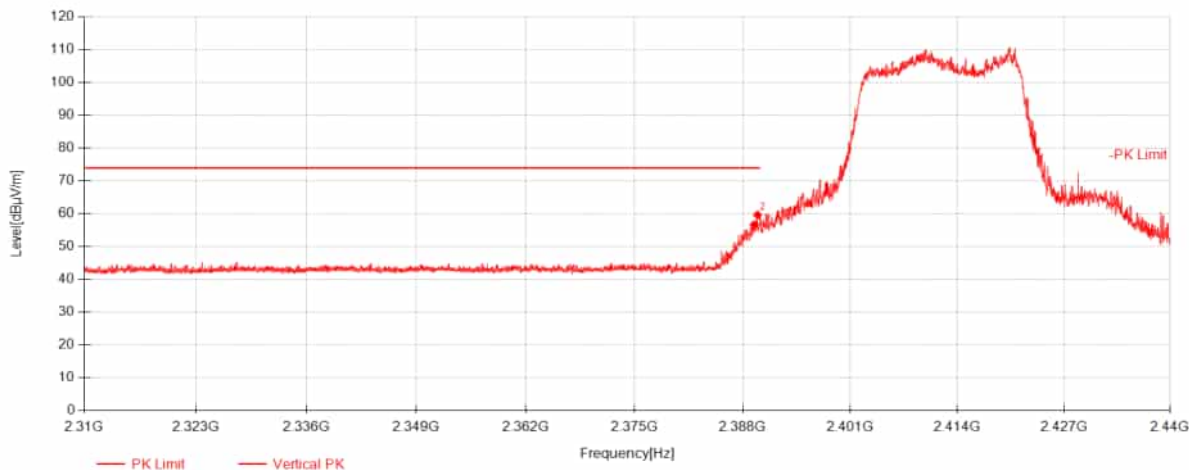
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.3488	53.25	26.98	-23.57	56.66	74.00	17.34	Vertical
2	2389.7712	56.26	26.98	-23.57	59.67	74.00	14.33	Vertical

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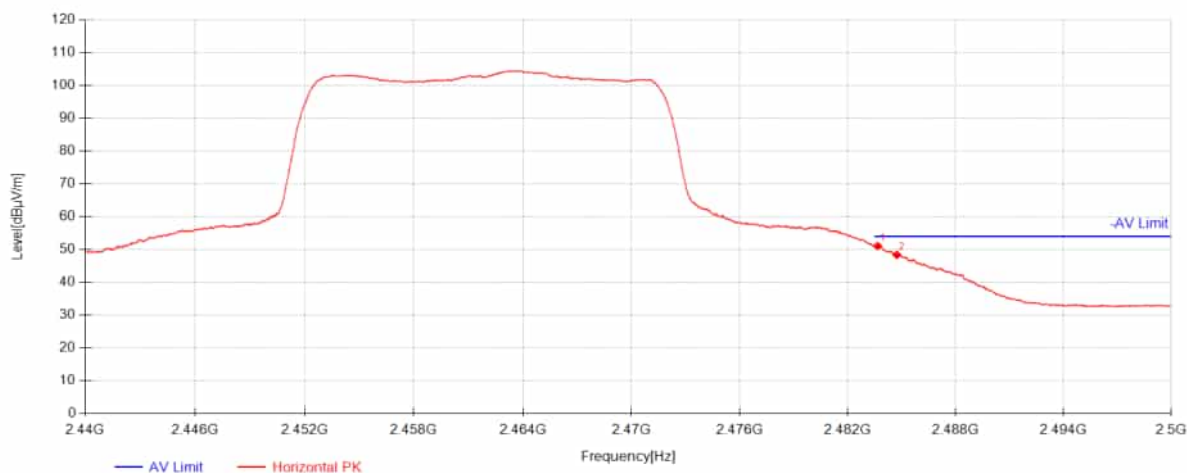
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Data List								
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1	2483.65	47.43	27.17	-23.54	51.05	54.00	2.95	Horizontal
2	2484.715	44.74	27.17	-23.54	48.36	54.00	5.64	Horizontal

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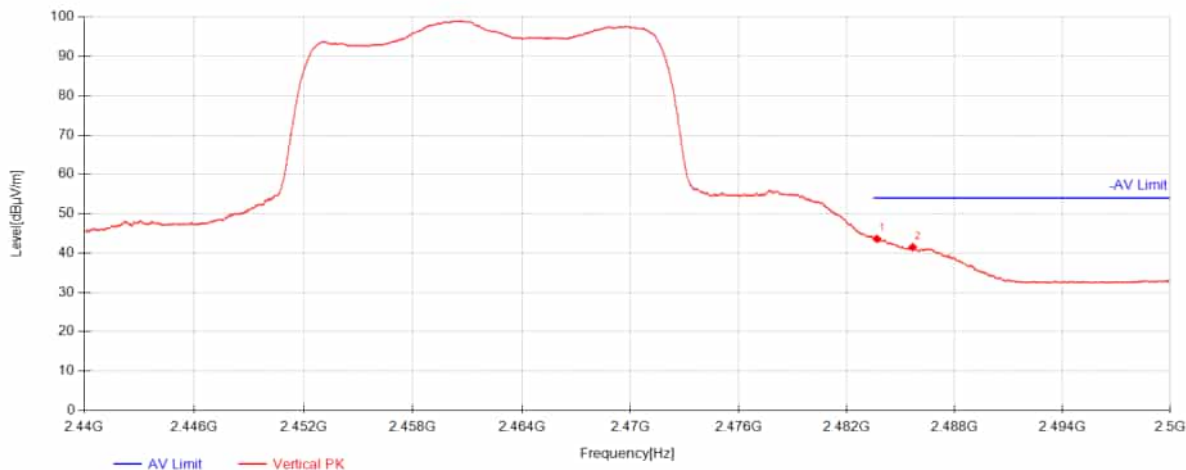
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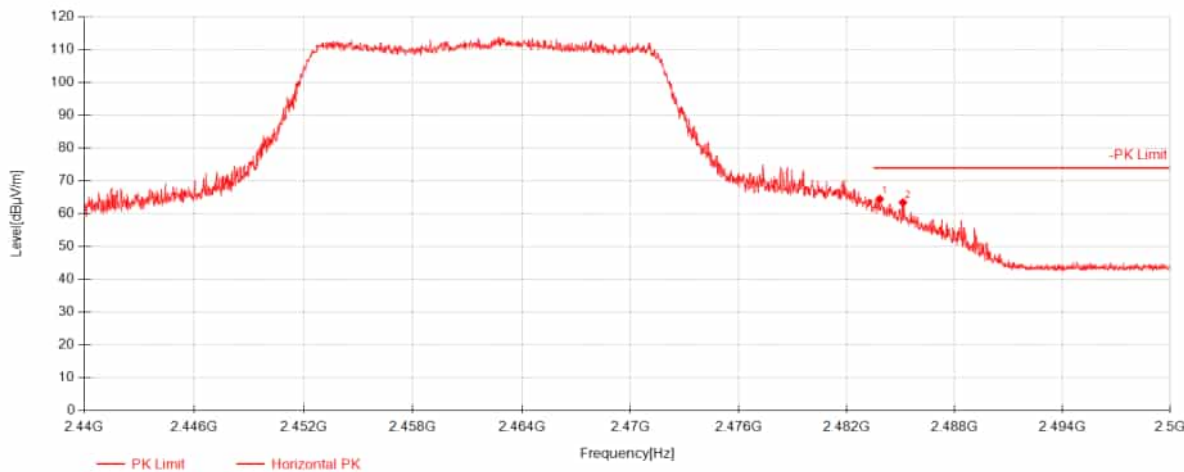


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2	2485.6525	37.87	27.17	-23.54	41.50	54.00	12.50	Vertical

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Data List								
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1	2483.815	60.85	27.17	-23.54	64.47	74.00	9.53	Horizontal
2	2485.105	59.79	27.17	-23.54	63.42	74.00	10.58	Horizontal

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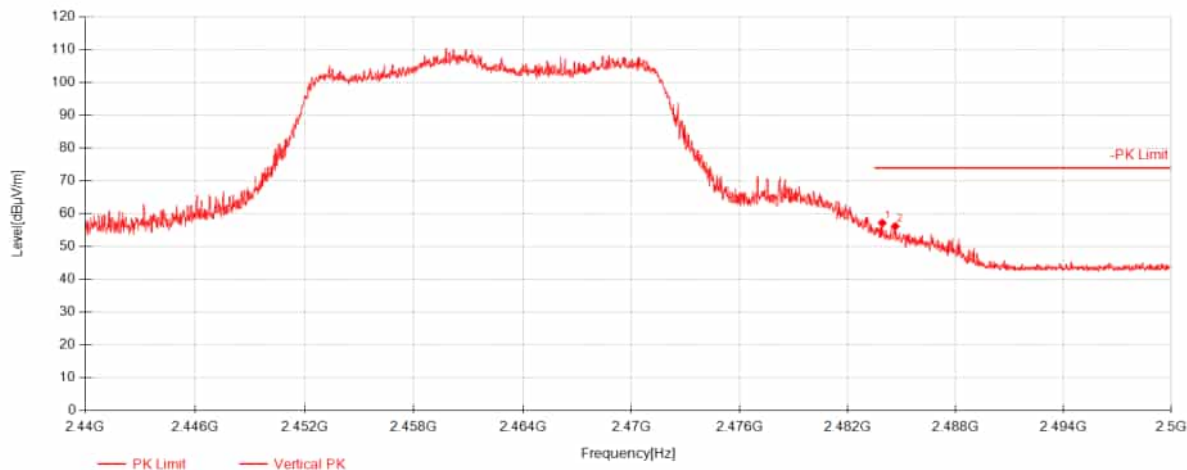
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Data List								
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1	2483.905	53.56	27.17	-23.54	57.18	74.00	16.82	Vertical
2	2484.625	52.56	27.17	-23.54	56.18	74.00	17.82	Vertical

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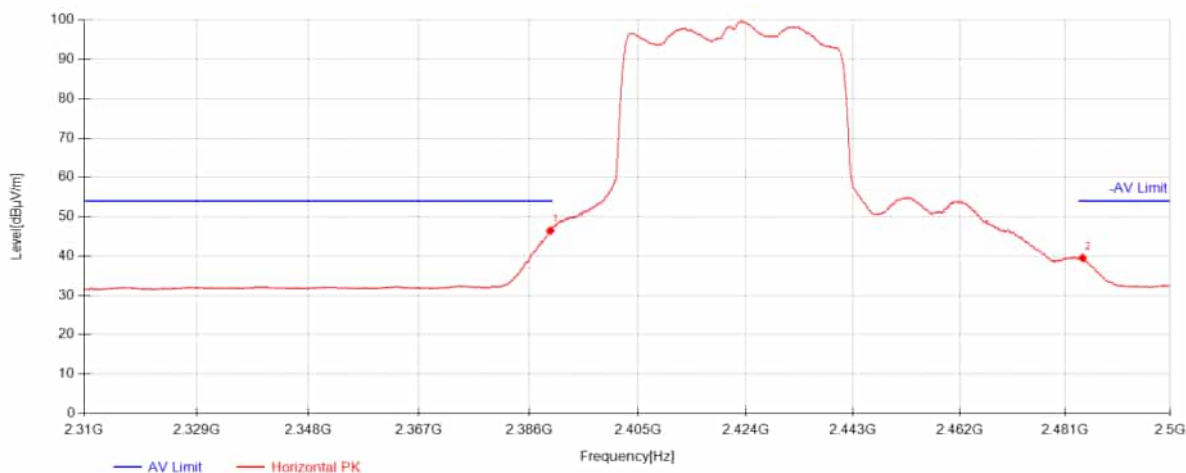
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.7333	43.05	26.98	-23.57	46.46	54.00	7.54	Horizontal
2	2484.16	35.90	27.17	-23.54	39.52	54.00	14.48	Horizontal

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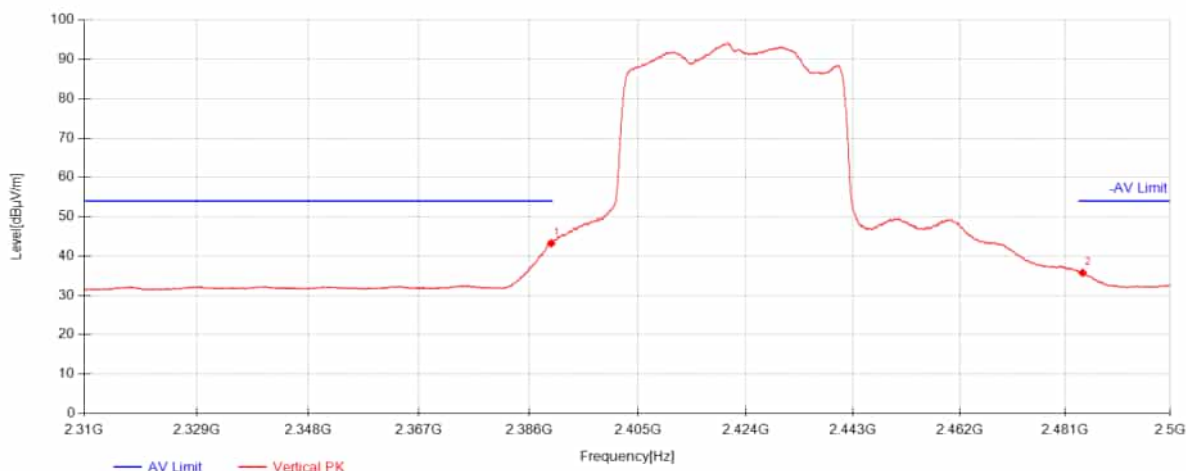
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.8633	39.81	26.98	-23.57	43.22	54.00	10.78	Vertical
2	2484.16	32.12	27.17	-23.54	35.74	54.00	18.26	Vertical

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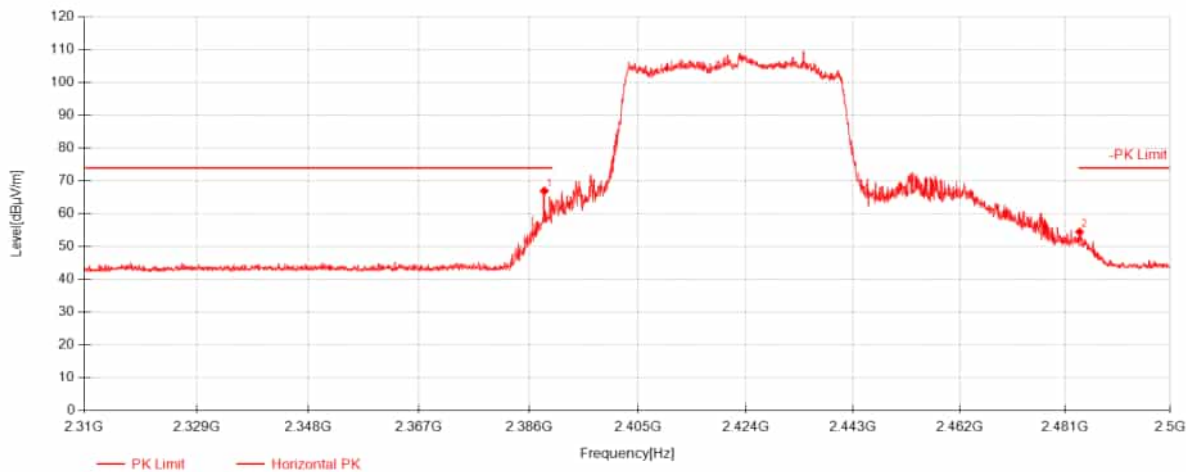
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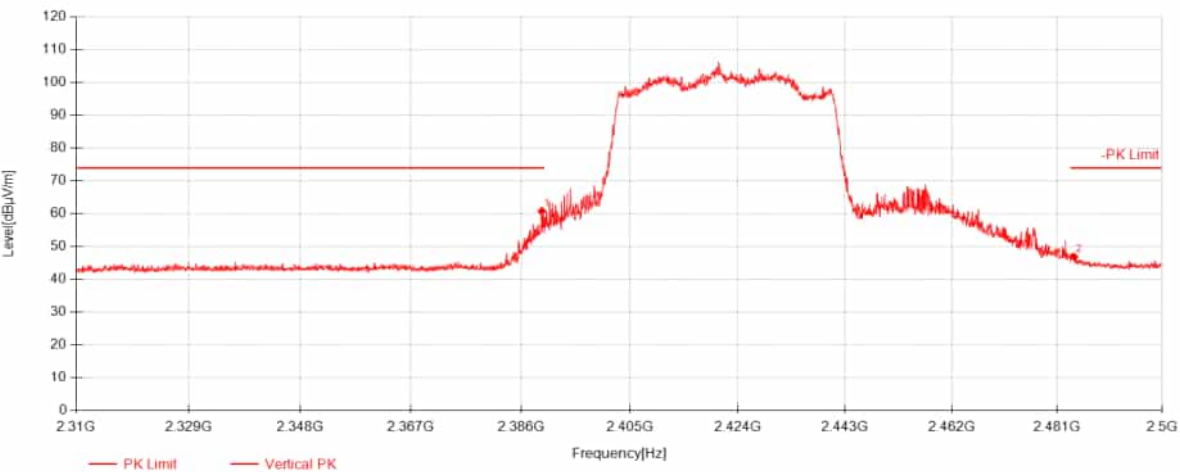
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2	2483.62	50.84	27.17	-23.54	54.46	74.00	19.54	Horizontal

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802.11ax40_Channel 03



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.6467	57.40	26.98	-23.57	60.81	74.00	13.19	Vertical
2	2484.04	43.24	27.17	-23.54	46.86	74.00	27.14	Vertical

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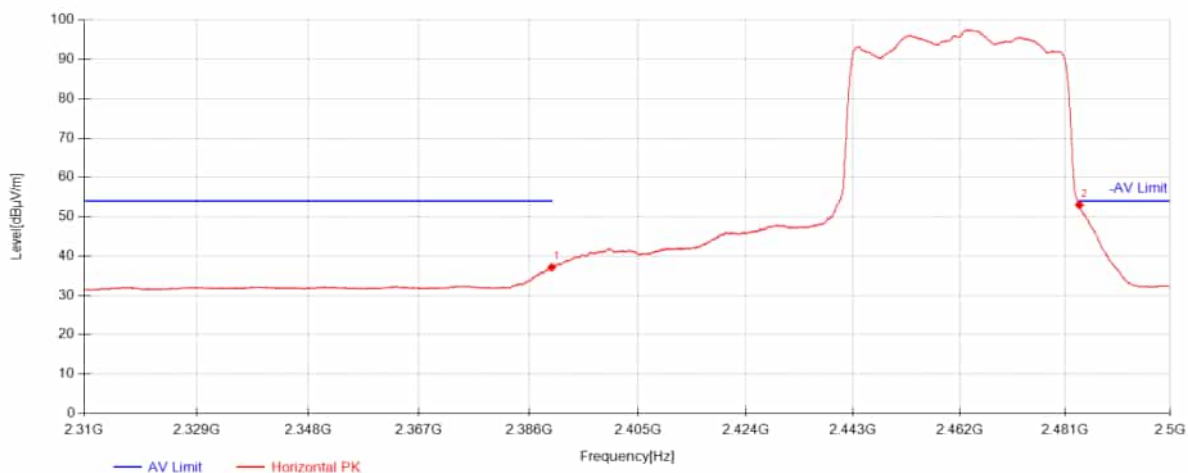
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.9933	33.77	26.98	-23.57	37.18	54.00	16.82	Horizontal
2	2483.56	49.38	27.17	-23.54	53.00	54.00	1.00	Horizontal

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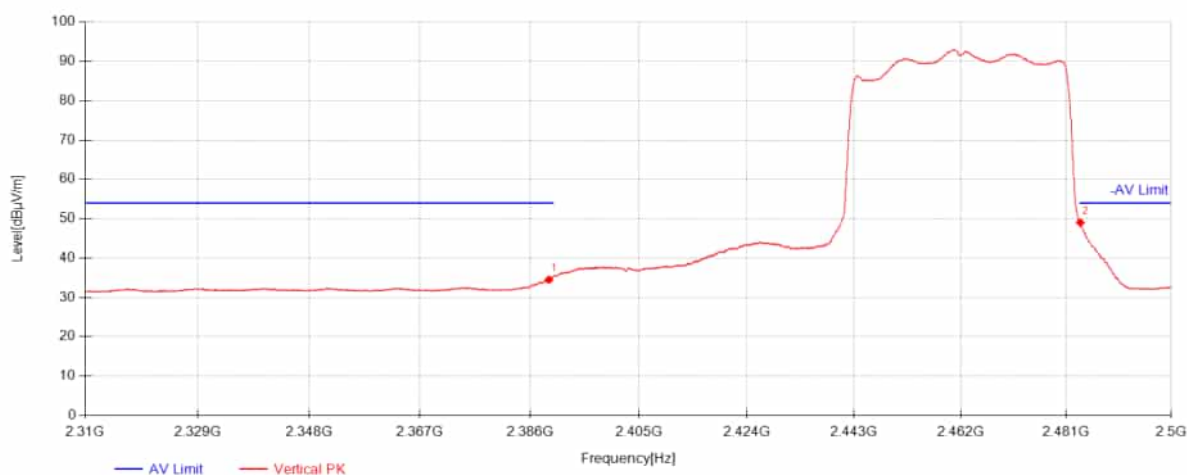
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

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802.11ax40_Channel 09



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.3	31.08	26.98	-23.57	34.49	54.00	19.51	Vertical
2	2483.56	45.42	27.17	-23.54	49.04	54.00	4.96	Vertical

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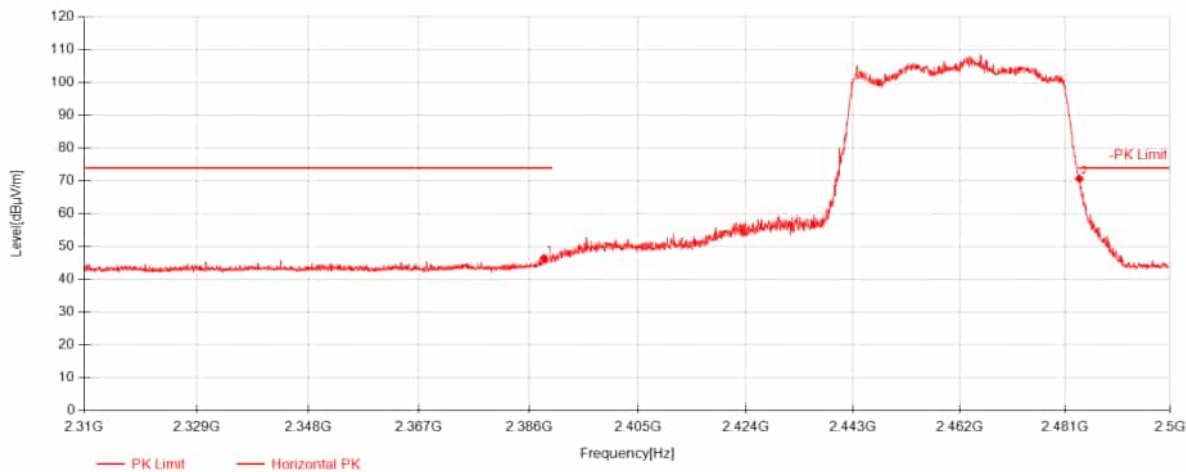
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2388.65	43.06	26.98	-23.57	46.47	74.00	27.53	Horizontal
2	2483.56	67.06	27.17	-23.54	70.68	74.00	3.32	Horizontal

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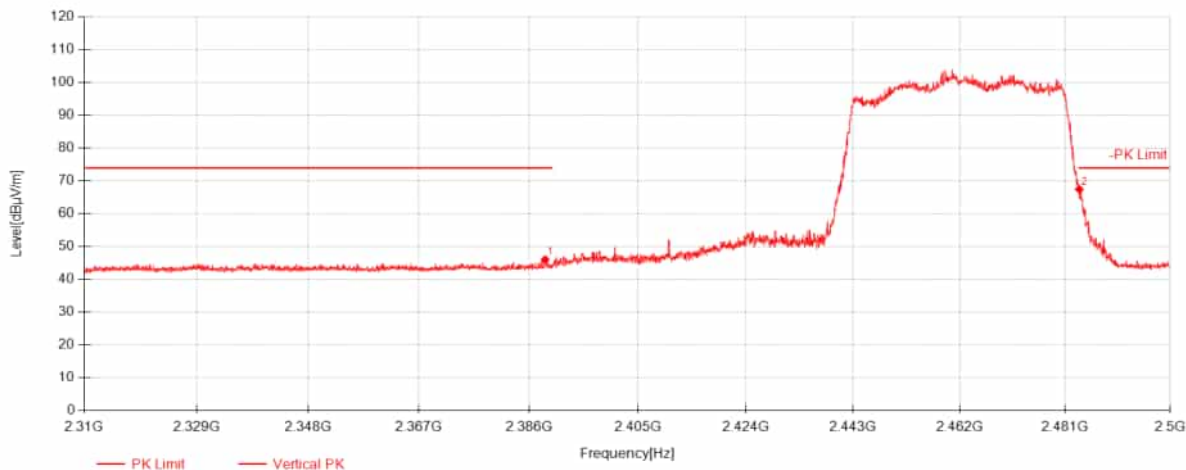
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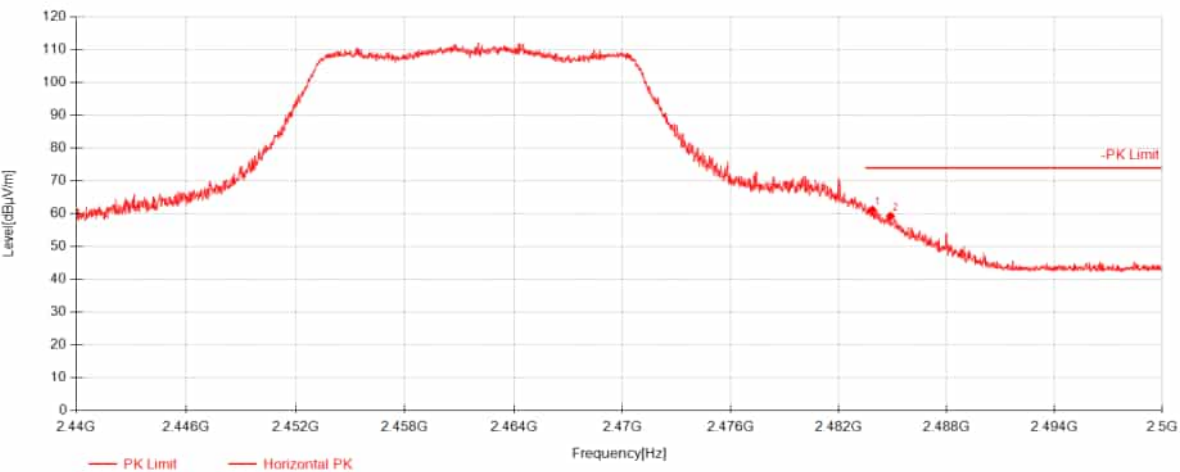


Data List								
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1	2388.8233	42.59	26.98	-23.57	46.00	74.00	28.00	Vertical
2	2483.56	63.85	27.17	-23.54	67.47	74.00	6.53	Vertical

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802.11n20_Channel 11



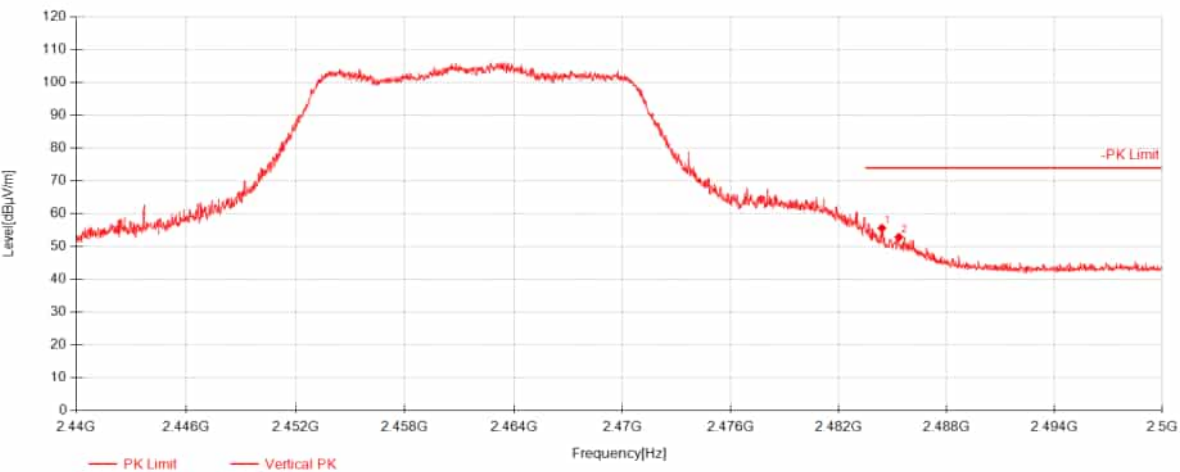
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.86	57.55	27.17	-23.54	61.17	74.00	12.83	Horizontal
2	2484.865	55.69	27.17	-23.54	59.32	74.00	14.68	Horizontal

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.385	52.01	27.17	-23.54	55.63	74.00	18.37	Vertical
2	2485.33	49.24	27.17	-23.54	52.87	74.00	21.13	Vertical

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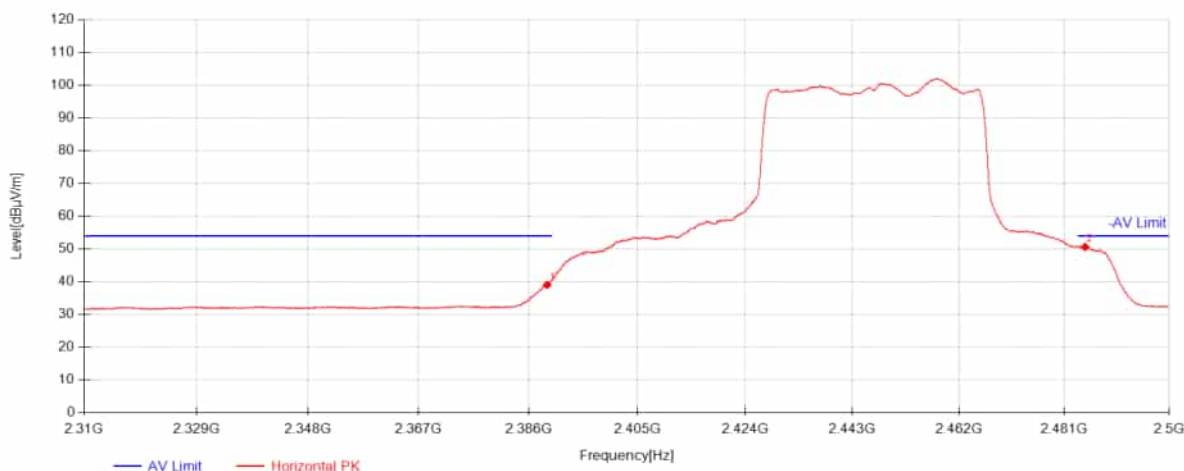
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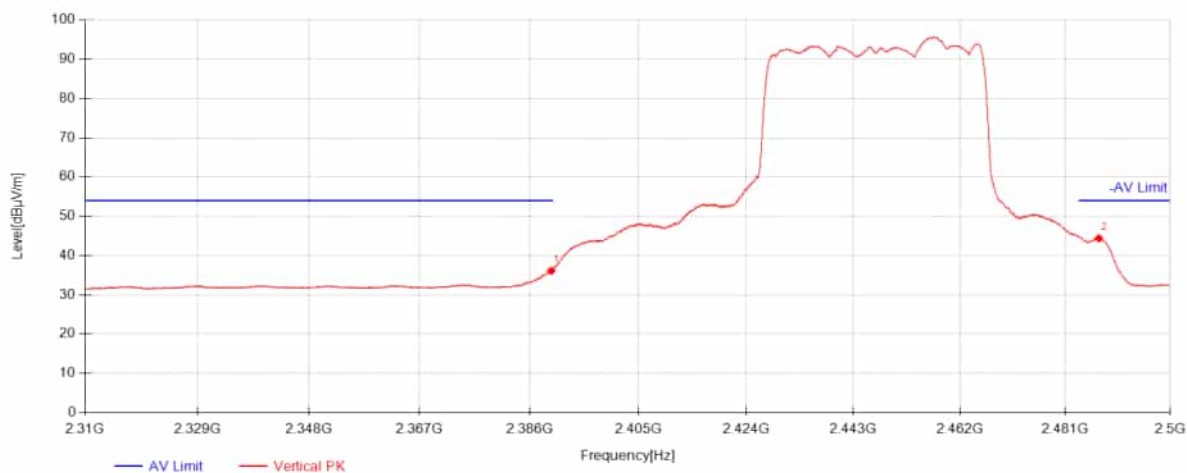
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.2567	35.61	26.98	-23.57	39.02	54.00	14.98	Horizontal
2	2484.76	47.00	27.17	-23.54	50.62	54.00	3.38	Horizontal

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.7767	32.72	26.98	-23.57	36.13	54.00	17.87	Vertical
2	2487.1	40.77	27.17	-23.54	44.40	54.00	9.60	Vertical

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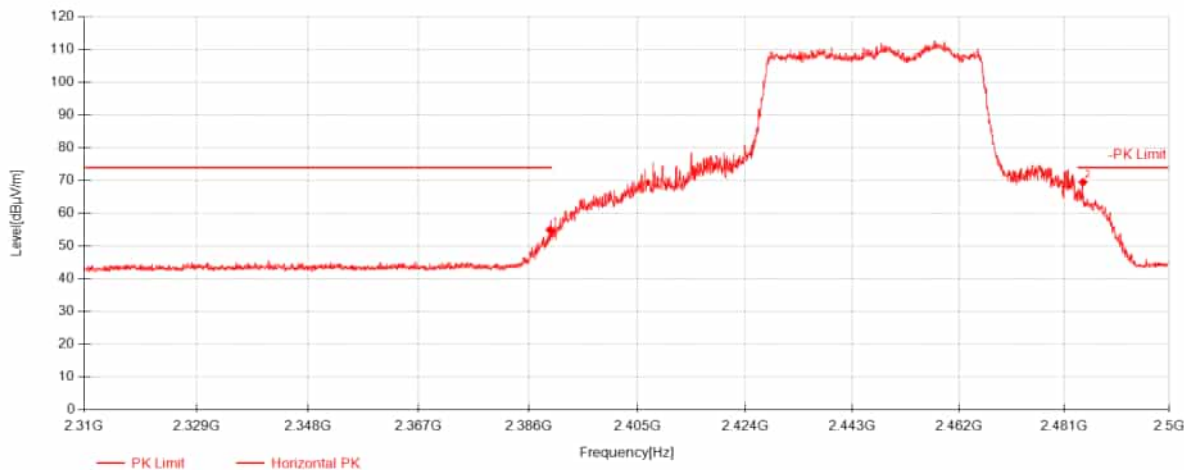
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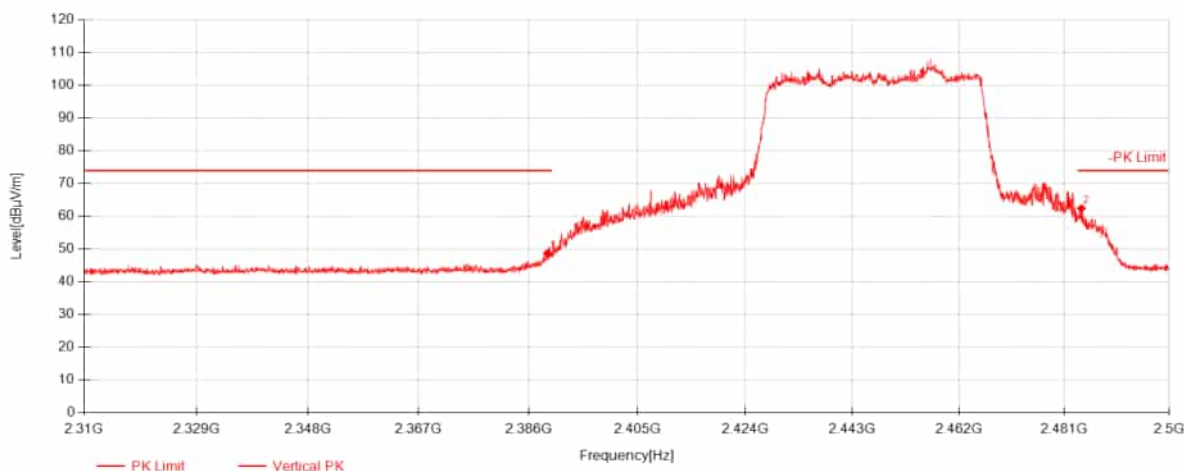
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.7333	51.52	26.98	-23.57	54.93	74.00	19.07	Horizontal
2	2484.4	65.88	27.17	-23.54	69.50	74.00	4.50	Horizontal

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802.11ax40_Channel 08



Data List								
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1	2389.3	45.28	26.98	-23.57	48.69	74.00	25.31	Vertical
2	2484.1	58.79	27.17	-23.54	62.41	74.00	11.59	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$
- Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---

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