



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

Report No.: SUCR240600021204  
Rev.: 01  
Page: 1 of 463

## TEST REPORT

**Application No.:** SUCR2406000212MO  
**Applicant:** Asiatelco Technologies Co.  
**Address of Applicant:** #68 HuaTuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201204, China  
**Manufacturer:** Asiatelco Technologies Co.  
**Address of Manufacturer:** #68 HuaTuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201204, China  
**EUT Description:** 4G/5G Wi-Fi Router  
RE600  
RE600-V  
**Model No.:** RE600-A  
RE600-D  
RE610  
**Trade Mark:** ATEL  
**FCC ID:** XYO-RE600  
**Standards:** FCC 47 CFR Part 2, Subpart J  
FCC 47 CFR Part 15, Subpart E  
**Date of Receipt:** June 20, 2024  
**Date of Test:** July 8, 2024 to July 23, 2024  
**Date of Issue:** July 24, 2024

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

*Nature Shen*

**Prepared by: Nature Shen/ Project Manager**

*Well Wei*

**Approved by: Well Wei/ Wireless Laboratory Manager**

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

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Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		July 24, 2024		Original

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## 1 Test Summary

Test Item	Band <sup>[1]</sup>	FCC rules No.	Test Requirements	Test Result	Result
Antenna Requirement	--	15.203/15.407(a)	--	Clause 4.1	PASS
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	Clause 4.5	For Report Purpose
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
99% Occupied Bandwidth	Band I Band III	KDB 789033 D02§ D	No limit.	Clause 4.7	For Report Purpose
Duty Cycle	Band I Band III	--	No limit.	Clause 4.3	For Report Purpose
Maximum Conducted Output Power	Band I Band III	15.407(a)(iv) 15.407(a)(3)	< 250mW < 1W	Clause 4.4	PASS
Maximum Power Spectral Density	Band I Band III	15.407(a)(iv) 15.407(a)(3)	<11dBm/MHz <30dBm/500KHz	Clause 4.8	PASS
Radiated Spurious Emissions	Band I	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).	Clause 4.9	PASS
	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz & out-restricted:(PK) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27		PASS

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			dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).		
Restricted bands around fundamental frequency	Band I Band III	15.407(b) 15.205/15.209	---	Clause 4.10	PASS
AC Power Line Conducted Emissions	Band I Band III	15.207	---	Clause 4.2	PASS
Frequency Stability	Band I Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A
Note 1: Band I: 5150-5250MHz Band III: 5725-5850MHz					

Remark: Model name: RE600 , RE600-V , RE600-A , RE600-D , RE610

All the hardware of product are all the same, just different brand and model for different market. The RF parameters are the same.

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## 2 General Information

### 2.1 Details of Client

Applicant:	Asiatelco Technologies Co.
Address of Applicant:	#68 HuaTuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201204, China
Manufacturer:	Asiatelco Technologies Co.
Address of Manufacturer:	#68 HuaTuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201204, China

### 2.2 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, King-p Li

### 2.3 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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## 2.4 General Description of EUT

EUT Description:	4G/5G Wi-Fi Router	
Model No.:	RE600 RE600-V RE600-A RE600-D RE610	
Trade Mark:	ATEL	
Hardware Version:	P2	
Software Version:	CPE5_RE600_00_v1.0.2	
Power Supply:	12V	
IMEI:	RF Conducted	862424050272813
	RSE & AC power line	862424050218238
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth
	802.11ax:	20 MHz / 40 MHz / 80 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Spacing:	20MHz:	802.11a/ac(VHT20)/ax(HE20)
	40MHz:	802.11ac(VHT40)/ax(HE40)
	80MHz:	802.11ac(VHT80)/ax(HE80)
Antenna Type:	PCB Antenna	
Antenna Gain:	5150MHz to 5250MHz: 3.33dBi(Ant1); 3.33dBi(Ant2); 5725MHz to 5850MHz: 5.28dBi(Ant1); 5.28dBi(Ant2);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11a
	<input checked="" type="checkbox"/> MIMO	802.11ac/ax: 2Tx & 2Rx

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	<input type="checkbox"/> Diversity	802.11a: 2Tx & 2Rx
RF Cable:	2.0dB	
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.		

<b>Remark:</b> In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:		
Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/ac/ax 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11ac/ax 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac/ax 80MHz	The Middle channel	5210

For UNII Band III:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/ac/ax 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11ac/ax 40MHz	The Lowest channel	5755
	The Highest channel	5795

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IEEE 802.11ac/ax 80MHz	The Middle channel	5775
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## 2.5 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	12
Remark: NV: Normal Voltage NT: Normal Temperature		

## 2.6 Description of Support Units

The EUT has been tested as an independent unit.

## 2.7 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	MIMO - Data Rate
802.11a	6 Mbps	/
802.11ac (VHT 20)	/	MCS0 (13 Mbps)
802.11ac (VHT 40)	/	MCS0 (27 Mbps)
802.11ac (VHT 80)	/	MCS0 (58.5 Mbps)
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)
802.11ax (HE 80)	/	MCS0 (68 Mbps)

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### 3 Test results and Measurement Data

#### 3.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15 Section 15.203
<p>The antenna is PCB Antenna and no consideration of replacement.</p> <p>The best case gain of the antenna is</p> <p>5150MHz to 5250MHz: 3.33dBi(Ant1); 3.33dBi(Ant2);*</p> <p>5725MHz to 5850MHz: 5.28dBi(Ant1); 5.28dBi(Ant2);*</p> <p><i>*Note:</i></p> <p><i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i></p> <p><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></p>	

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## Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,

$$\text{Array Gain} = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB.}$$

- For power measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for } N_{ANT} \leq 4;$$

Directional gain may be calculated by using the formulas applicable to equal gain antennas with  $G_{ANT}$  set equal to the gain of the antenna having the highest gain.

## The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

All antennas have the same gain:

Operation Frequency	ANT Gain1 (dBi)	ANT Gain2 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz	3.33	3.33	3.33	6.34	0	0
5725MHz to 5850MHz	5.28	5.28	5.28	8.29	0	0

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi ) =6.34-6=0.34

5725MHz to 5850MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi ) =8.29-6=2.29

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

Report No.: SUCR240600021204

Rev.: 01

Page: 13 of 463

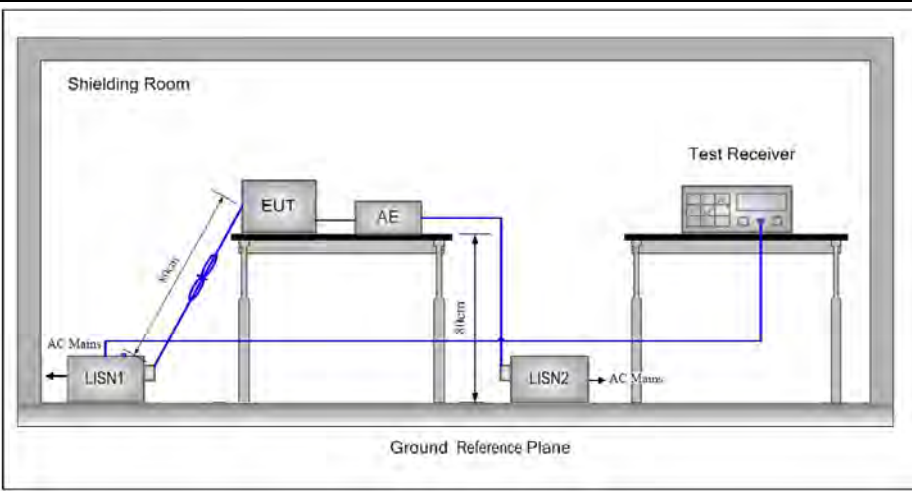
### 3.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 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:	<ol style="list-style-type: none"><li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li><li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> 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.</li><li>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,</li><li>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.</li><li>5) 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.</li></ol>		

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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

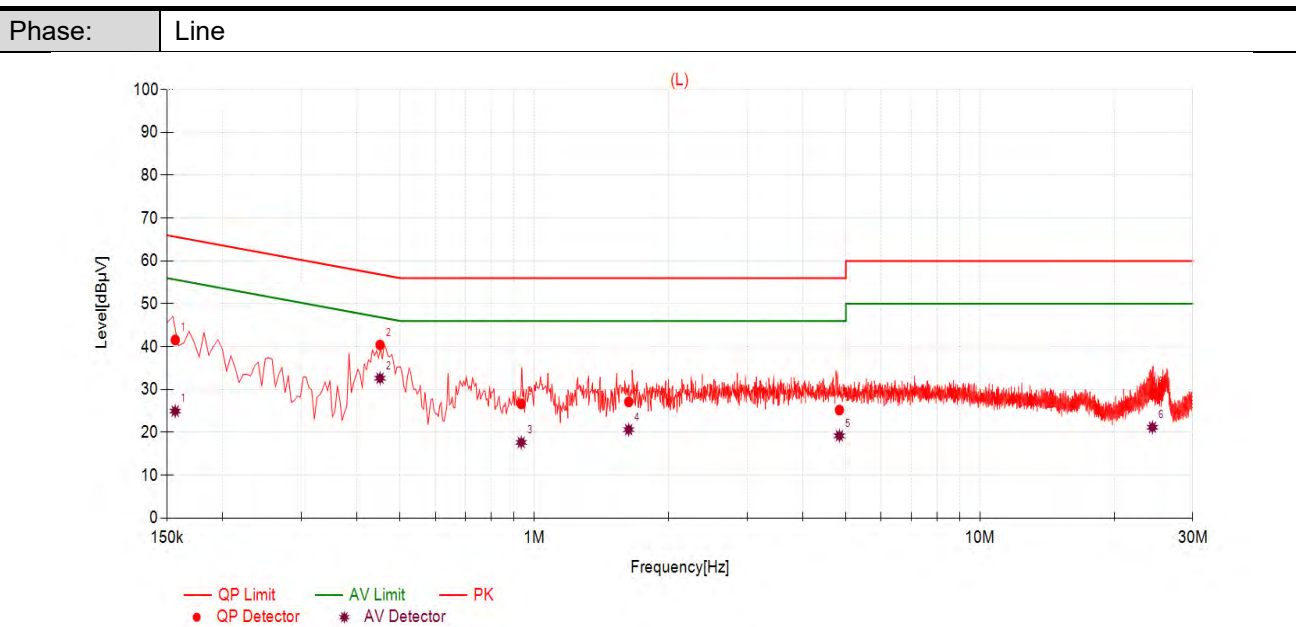
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### Measurement Data

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.



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	0.1564	9.86	31.72	41.58	65.65	24.07	15.12	24.98	55.65	30.67	PASS
2	0.4506	9.87	30.54	40.41	56.86	16.45	22.78	32.65	46.86	14.21	PASS
3	0.9346	9.86	16.80	26.66	56.00	29.34	7.80	17.66	46.00	28.34	PASS
4	1.6283	9.84	17.29	27.13	56.00	28.87	10.81	20.65	46.00	25.35	PASS
5	4.8359	9.89	15.33	25.22	56.00	30.78	9.33	19.22	46.00	26.78	PASS
6	24.3711	10.28	18.70	28.98	60.00	31.02	10.91	21.19	50.00	28.81	PASS

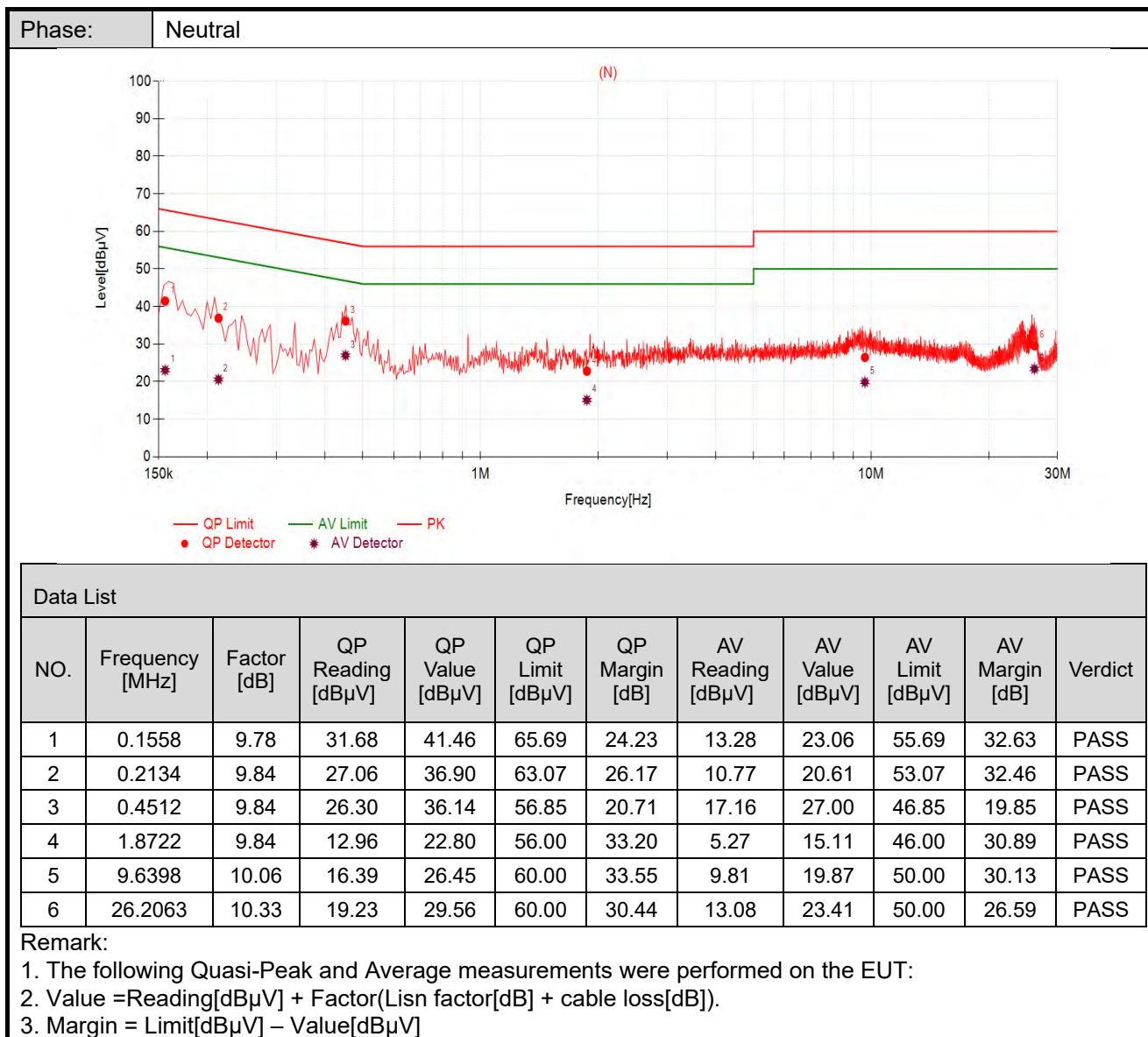
### Remark:

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

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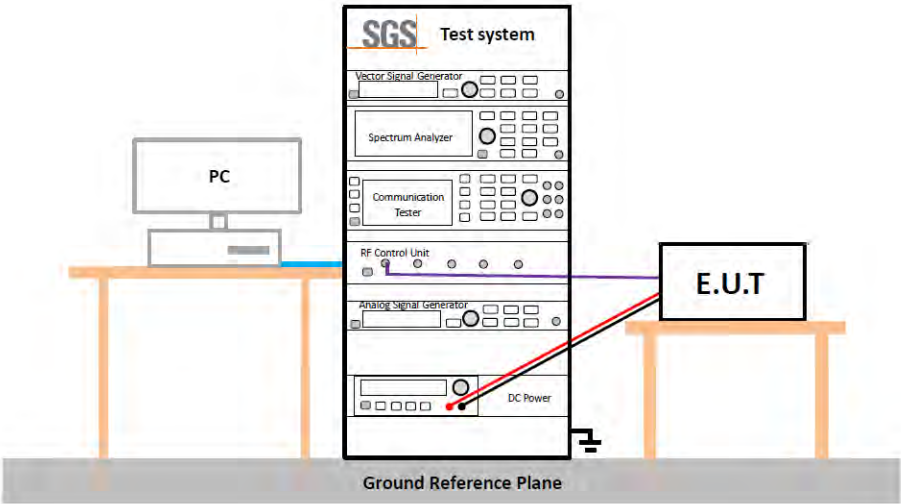
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### 3.3 Duty Cycle

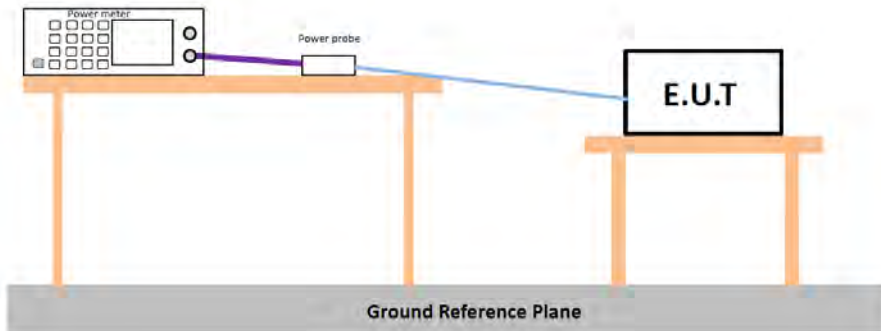
Test Requirement:	ANSI C63.10 :2013 Section 12.2
Test Method:	ANSI C63.10 :2013 Section 12.2
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For report purpose
The detailed test data see: <b>Appendix</b>	

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### 3.4 Conducted Output Power

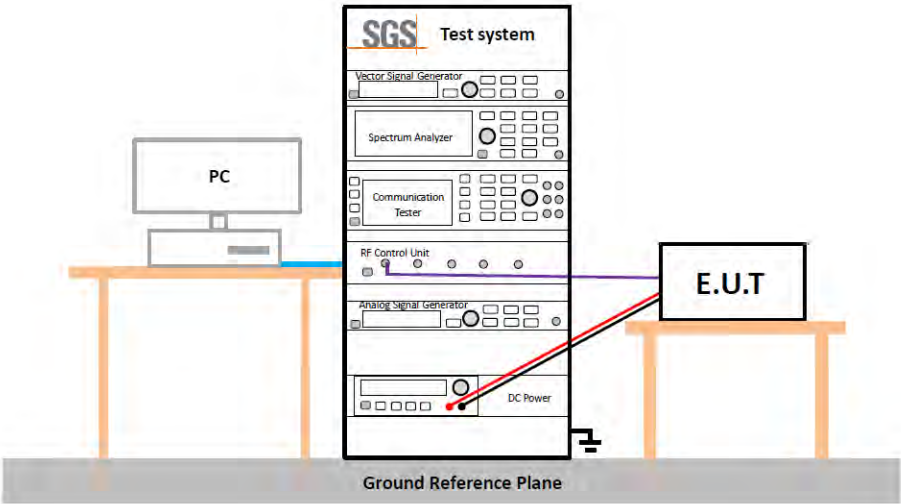
Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013 Section 12.3.3.2	
Test Setup:	<div></div> <p>* Test with power meter (Detector function: Average) Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.</p>	
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:	Frequency Band	Limit
	5150-5250MHz	Not exceed 1W(30dBm)
	5725-5850MHz	Not exceed 1W(30dBm)
Test Results:	Pass	
The detailed test data see: <b>Appendix</b>		

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### 3.5 26dB Emission Bandwidth

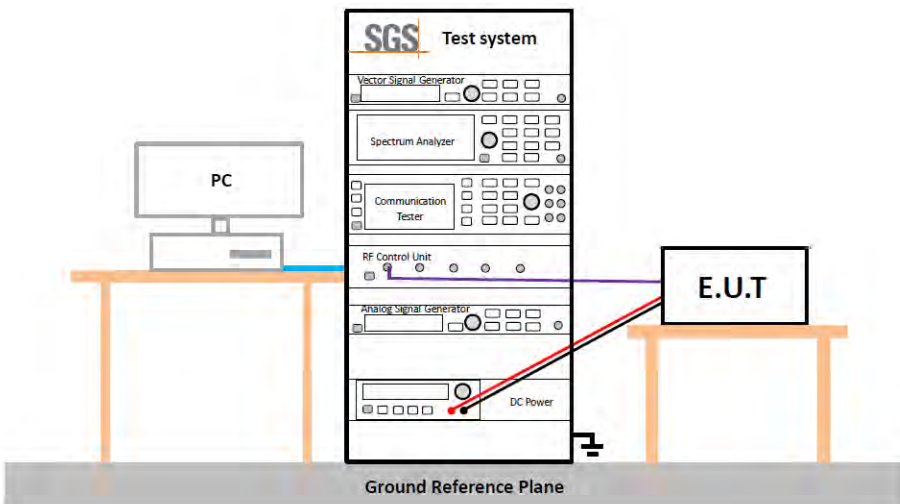
Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C
Test Method:	ANSI C63.10: 2013 Section 12.4.1
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: <b>Appendix</b>	

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### 3.6 6dB Emission Bandwidth

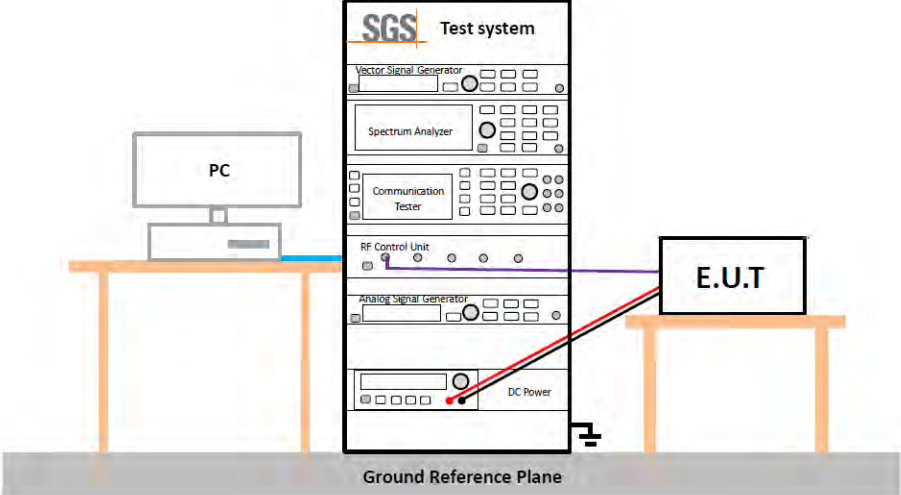
Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013 Section 12.4.1	
Test Setup:		
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	
The detailed test data see: <b>Appendix</b>		

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### 3.7 99% Occupied Bandwidth

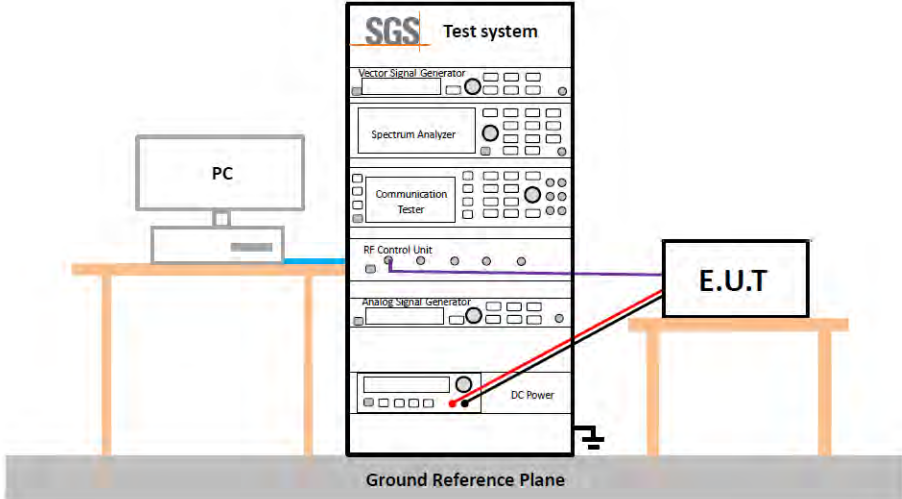
Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013 Section 12.4.2
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: <b>Appendix</b>	

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### 3.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013 Section 12.5 KDB 789033 D02 v02r01, Section F.	
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:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 17dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	
The detailed test data see: <b>Appendix</b>		

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### 3.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205 and 15.209
Test Method:	ANSI C63.10: 2013 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

#### Test Setup:

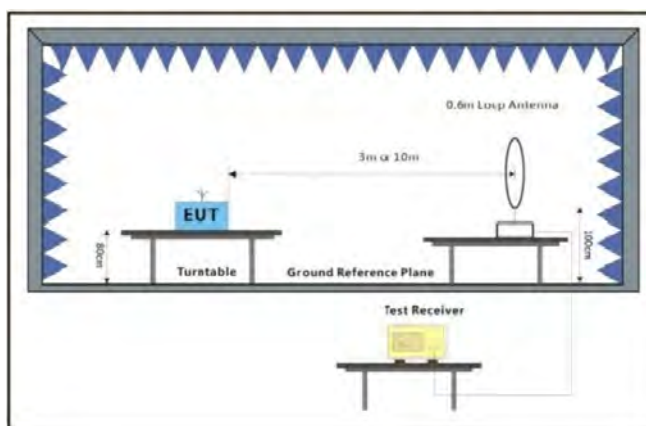


Figure 1. 9kHz to 30MHz

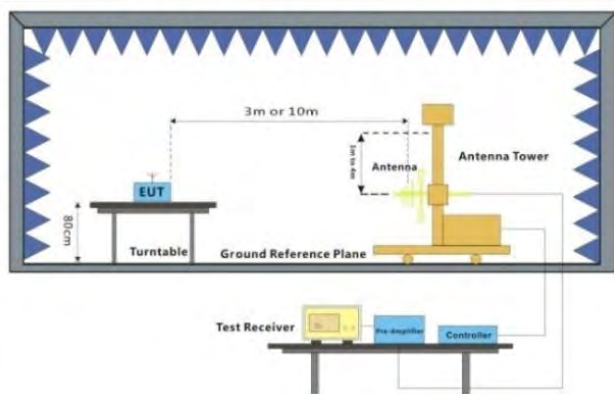


Figure 1. 30MHz to 1GHz

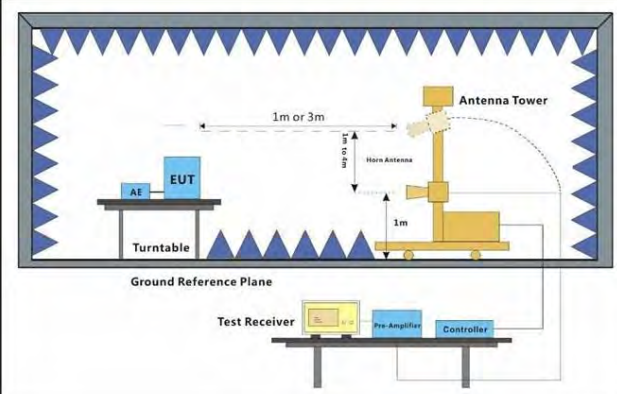


Figure 2. Above 1 GHz

Test Procedure:	<p>a. For below 1GHz test, 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.</p> <p>b. For above 1GHz test, 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.</p>
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	<p>(Distance from antenna to EUT is 1m for measurements &gt;18GHz).</p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Test the EUT in the outermost channels.</li> <li>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.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> <li>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</li> <li>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.</li> <li>At a measurement distance of 1 meter the limit line was increased by <math>20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}</math>.</li> </ol>
Test Configuration:	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> <li>• RBW = 10 kHz</li> <li>• VBW = 30 kHz</li> <li>• Detector = Peak &amp; Average &amp; Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p>

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	<ul style="list-style-type: none"><li>• RBW = 1 MHz</li><li>• VBW = 10Hz, when duty cycle is no less than 98 percent.</li><li>• VBW <math>\geq 1/T</math>, 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.</li></ul>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
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: <b>Appendix</b>	

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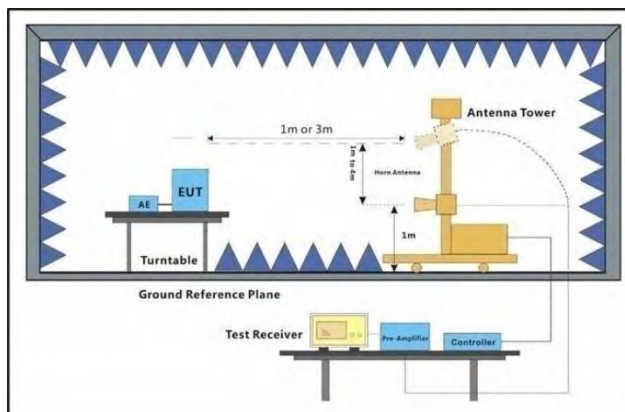
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### 3.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 12.7		
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:



#### Test Procedure:

- 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 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.

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	<p>f. 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.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. 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.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq</math> 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.</li> </ul>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>
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: <b>Appendix</b>	

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

Measurement Uncertainty (±0.5% Confidence Level, K = 2)		
No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)
Remark: The U <sub>lab</sub> (lab Uncertainty) is less than U <sub>CISPR/ETSI</sub> (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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### 5 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
MXG Vector Signal Generator	Agilent	N5181A	SUWI-01-38-02	2023/08/30	2024/08/29

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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	2024/02/04	2025/02/03
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
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2024/02/04	2025/02/03
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-09	2023/09/16	2024/09/15

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RSE Test System					
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-04-02-01	2023/06/03	2026/06/02
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2024/02/18	2025/02/17
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2024/05/08	2025/05/07
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2023/11/21	2024/11/20
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2024/02/01	2025/01/31
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2024/02/04	2025/02/03
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2025/05/12
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2025/05/12
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2025/05/11
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2024/02/04	2025/02/03
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2024/02/04	2025/02/03
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2024/02/04	2025/02/03
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-09	2023/09/16	2024/09/15
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement

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## 6 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.

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# Appendix

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## Duty Cycle

## Test Result

### 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 (%)
802.11a	SISO	5180	/	/	1.396	1.454	96.01	0.18	0.03
		5745	/	/	1.399	1.454	96.22	0.17	0.03
802.11ax (HE20)	MIMO	5180	RU26	Left	2.904	2.962	98.04	0.09	0.03
			RU52	Left	2.860	2.918	98.01	0.09	0.03
			RU106	Left	1.396	1.453	96.08	0.17	0.03
			RU242	Left	0.561	0.619	90.63	0.43	0.06
		5200	RU26	Mid	2.904	2.962	98.04	0.09	0.03
			RU52	Mid	2.864	2.922	98.02	0.09	0.03
			RU106	Left	1.396	1.453	96.08	0.17	0.03
		5240	RU26	Right	2.905	2.962	98.08	0.08	0.03
			RU52	Right	2.861	2.918	98.05	0.09	0.03
			RU106	Right	1.397	1.454	96.08	0.17	0.07
		5745	RU26	Left	2.904	2.962	98.04	0.09	0.03
			RU52	Left	2.860	2.918	98.01	0.09	0.03
			RU106	Left	1.397	1.454	96.08	0.17	0.03
			RU242	Left	0.561	0.619	90.63	0.43	0.00
		5785	RU26	Mid	2.904	2.962	98.04	0.09	0.03
			RU52	Mid	2.860	2.918	98.01	0.09	0.03
			RU106	Left	1.396	1.454	96.01	0.18	0.03
		5825	RU26	Right	2.903	2.961	98.04	0.09	0.04
			RU52	Right	2.860	2.918	98.01	0.09	0.03
			RU106	Right	1.396	1.453	96.08	0.17	0.03
802.11ax (HE40)	MIMO	5190	RU242	Left	1.220	1.277	95.54	0.20	0.03
			RU484	Left	0.320	0.377	84.88	0.71	0.07
			5230	RU242	Right	1.220	1.278	95.46	0.20
		5755	RU242	Left	1.220	1.278	95.46	0.20	0.03
			RU484	Left	0.320	0.378	84.66	0.72	0.07
802.11ax (HE80)	MIMO	5795	RU242	Right	1.220	1.278	95.46	0.20	0.03
			5210	RU484	Left	1.217	1.274	95.53	0.20
		5775	RU996	Left	0.193	0.251	76.89	1.14	0.11
			RU484	Right	1.217	1.273	95.60	0.20	0.03
			RU996	Left	0.195	0.251	77.69	1.10	0.09
Ant1									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)		Max. DC Variation (%)	
802.11ac (VHT20)	MIMO	5180	0.684	0.742	92.18	0.35		0.03	
802.11ac (VHT40)	MIMO	5190	0.352	0.410	85.85	0.66		0.07	

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

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Rev.: 01  
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802.11ac (VHT80)	MIMO	5210	0.190	0.246	77.24	1.12	0.07
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## 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 (%)
802.11a	SISO	5180	/	/	1.399	1.454	96.22	0.17	0.07
		5745	/	/	1.396	1.454	96.01	0.18	0.07
802.11ax (HE20)	MIMO	5180	RU26	Left	2.904	2.962	98.04	0.09	0.03
			RU52	Left	2.860	2.918	98.01	0.09	0.03
			RU106	Left	1.396	1.454	96.01	0.18	0.03
			RU242	Left	0.561	0.619	90.63	0.43	0.06
		5200	RU26	Mid	2.904	2.962	98.04	0.09	0.03
			RU52	Mid	2.864	2.922	98.02	0.09	0.07
			RU106	Left	1.395	1.453	96.01	0.18	0.03
		5240	RU26	Right	2.905	2.962	98.08	0.08	0.03
			RU52	Right	2.861	2.918	98.05	0.09	0.03
			RU106	Right	1.397	1.454	96.08	0.17	0.03
		5745	RU26	Left	2.904	2.962	98.04	0.09	0.03
			RU52	Left	2.860	2.918	98.01	0.09	0.03
			RU106	Left	1.396	1.454	96.01	0.18	0.04
			RU242	Left	0.561	0.619	90.63	0.43	0.03
		5785	RU26	Mid	2.904	2.961	98.07	0.08	0.04
			RU52	Mid	2.860	2.918	98.01	0.09	0.03
			RU106	Left	1.396	1.454	96.01	0.18	0.03
		5825	RU26	Right	2.903	2.961	98.04	0.09	0.04
			RU52	Right	2.860	2.918	98.01	0.09	0.03
			RU106	Right	1.396	1.453	96.08	0.17	0.03
802.11ax (HE40)	MIMO	5190	RU242	Left	1.221	1.278	95.54	0.20	0.00
			RU484	Left	0.321	0.378	84.92	0.71	0.07
		5230	RU242	Right	1.221	1.278	95.54	0.20	0.03
			RU242	Left	1.220	1.277	95.54	0.20	0.07
		5755	RU484	Left	0.321	0.378	84.92	0.71	0.04
802.11ax (HE80)	MIMO	5795	RU242	Right	1.220	1.278	95.46	0.20	0.03
			RU242	Right	1.220	1.278	95.46	0.20	0.03
		5210	RU484	Left	1.216	1.273	95.52	0.20	0.03
			RU996	Left	0.198	0.252	78.57	1.05	0.14
			RU484	Right	1.216	1.273	95.52	0.20	0.07
802.11ax (HE80)	MIMO	5775	RU996	Left	0.196	0.251	78.09	1.07	0.08
			RU996	Left	0.196	0.251	78.09	1.07	0.08

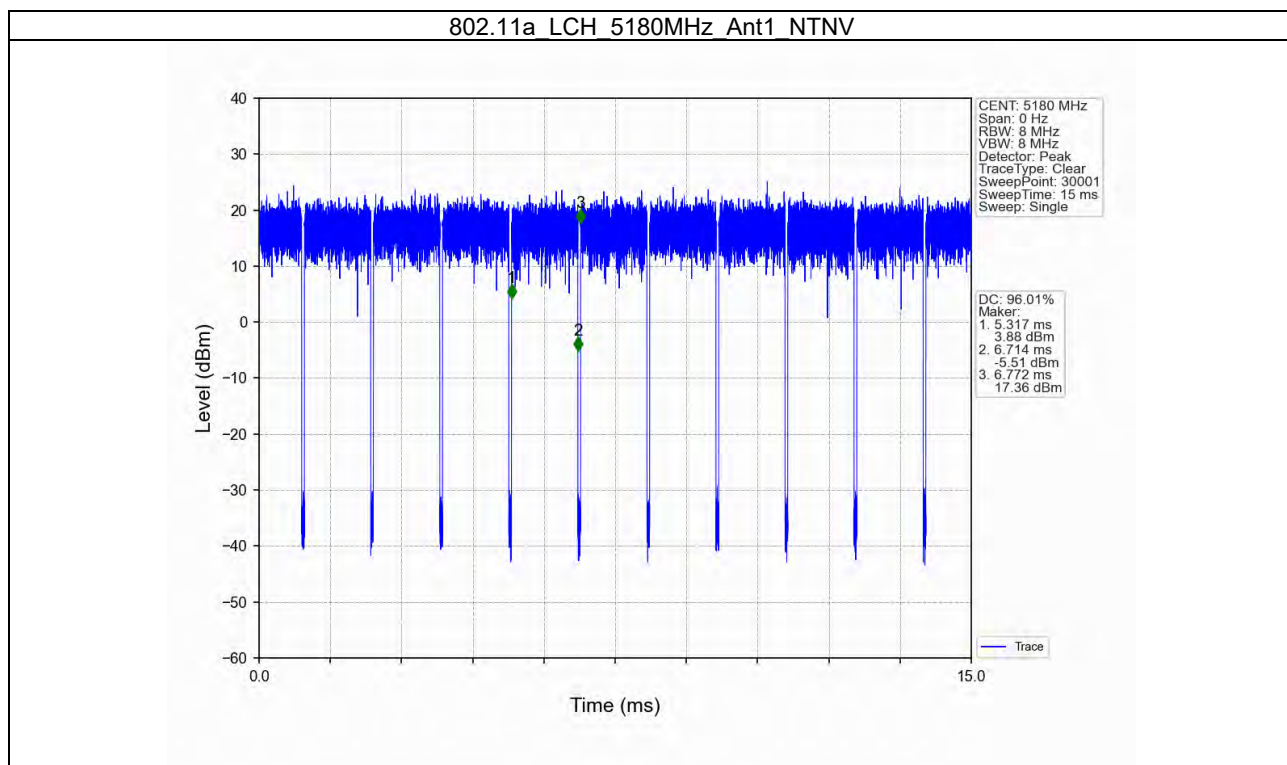
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### Test Graph

#### Ant1

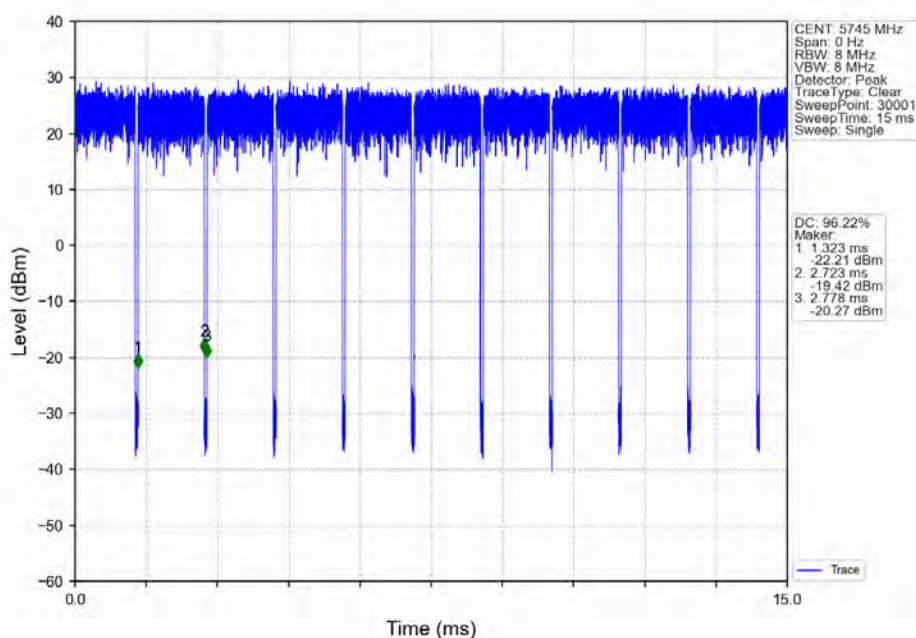


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### 802.11a\_LCH\_5745MHz\_Ant1\_NTNV

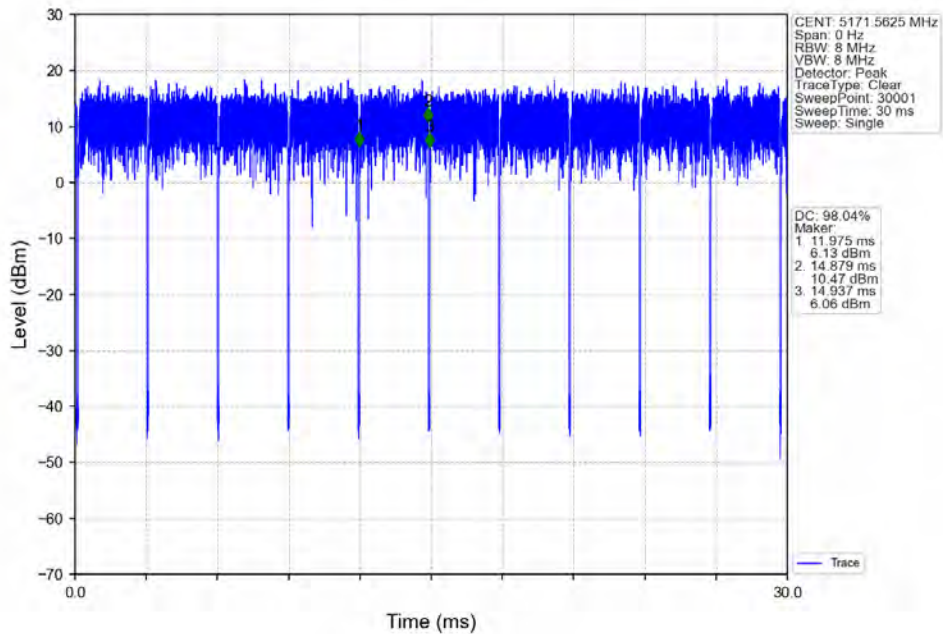


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802.11ax(HE20)\_LCH\_5180MHz\_RU26\_Left\_Ant1\_NTNV

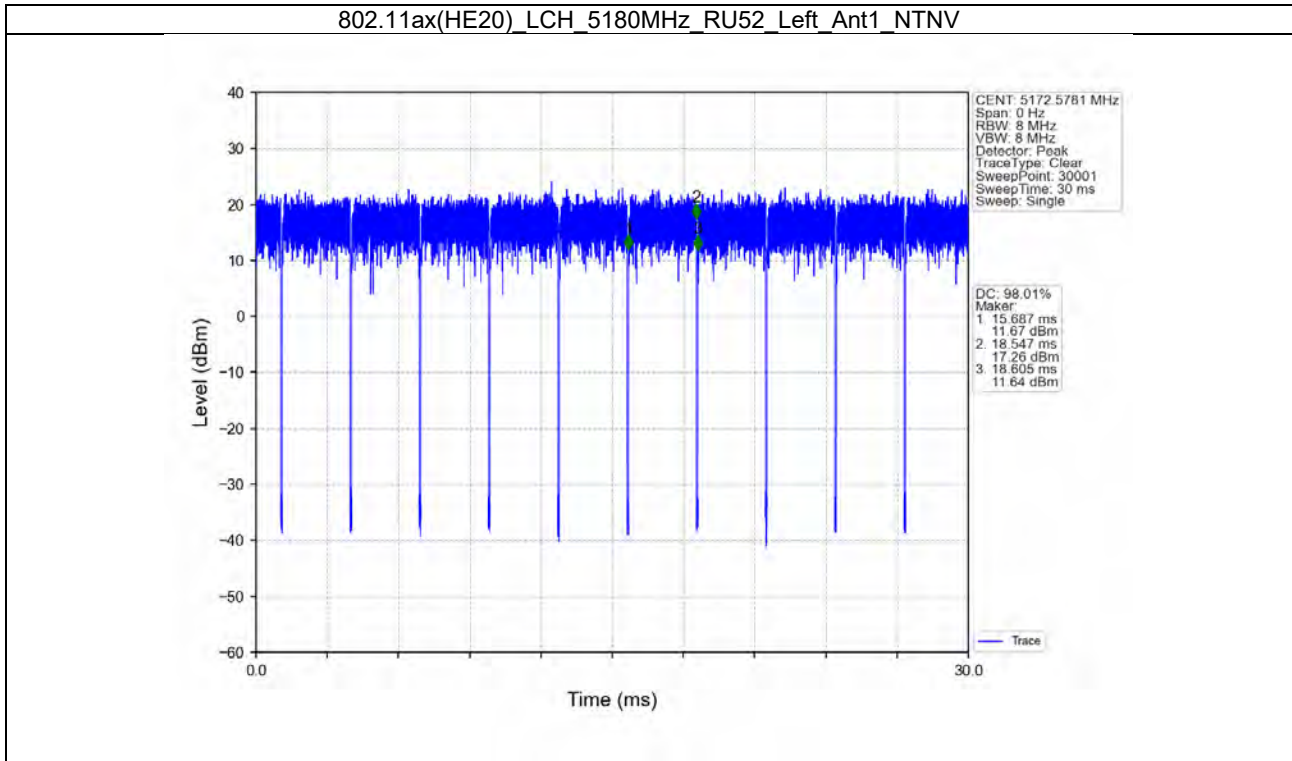


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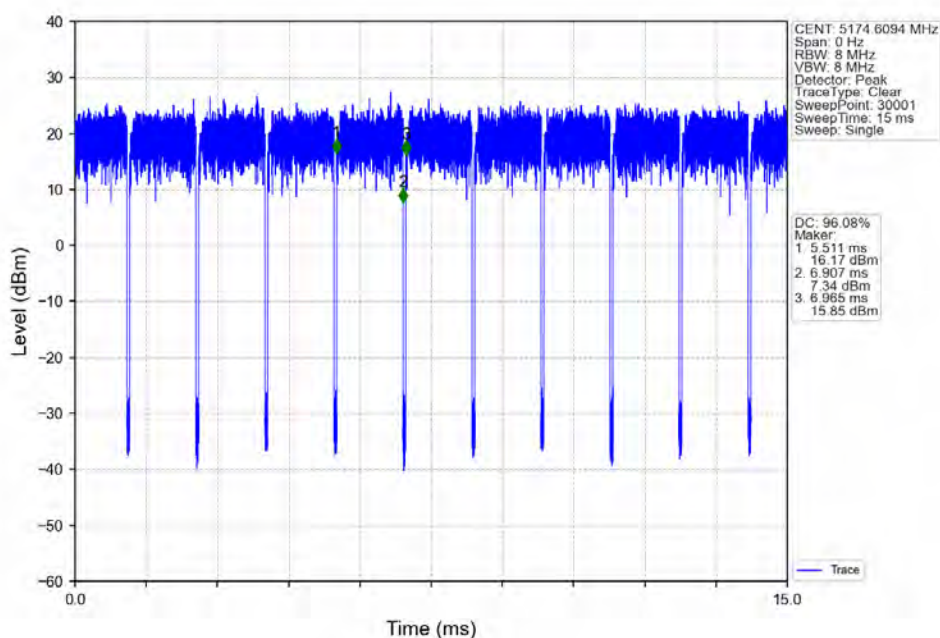
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802.11ax(HE20)\_LCH\_5180MHz\_RU106\_Left\_Ant1\_NTNV

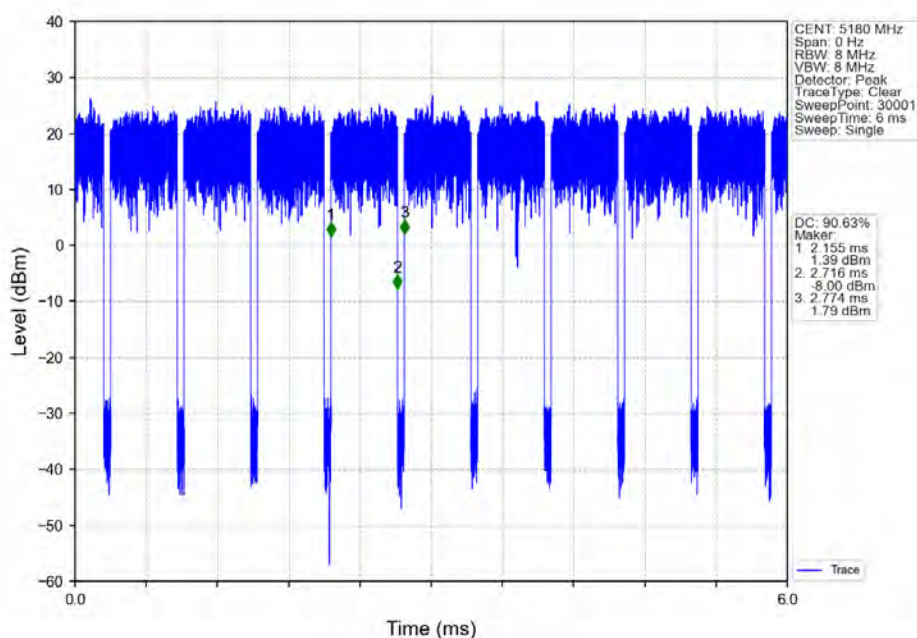


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802.11ax(HE20)\_LCH\_5180MHz\_RU242\_Left\_Ant1\_NTNV

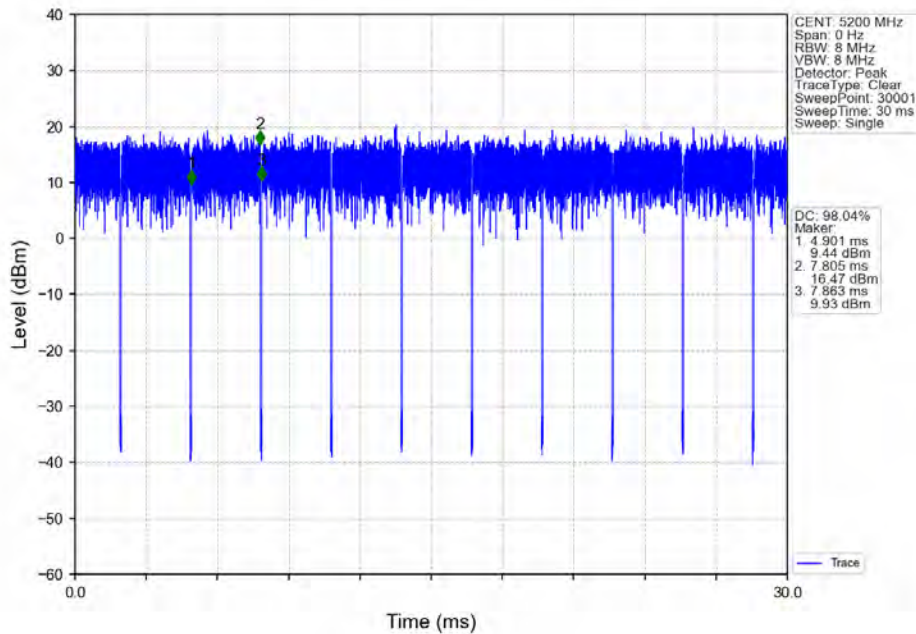


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802.11ax(HE20)\_MCH\_5200MHz\_RU26\_Mid\_Ant1\_NTNV

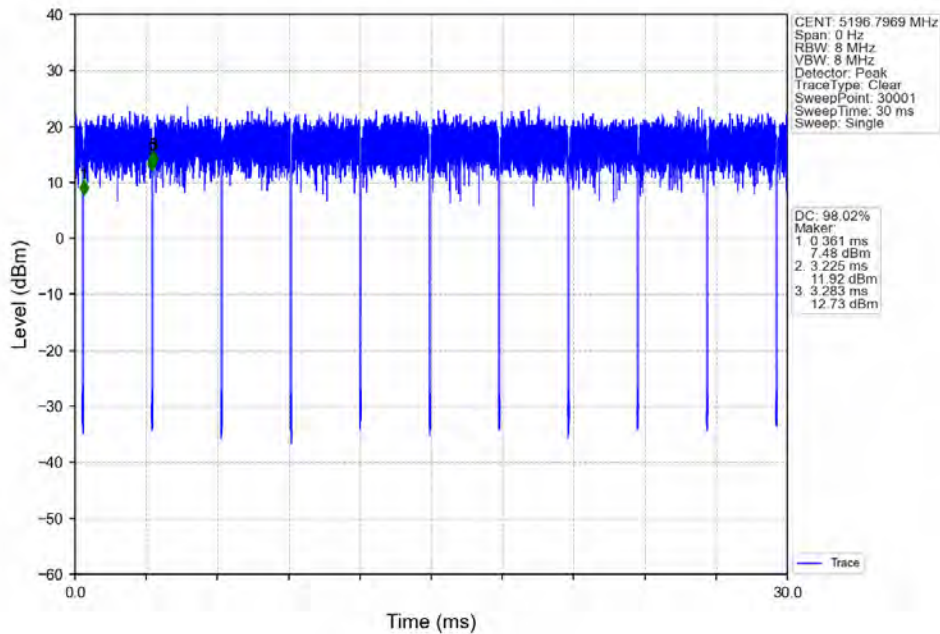


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802.11ax(HE20)\_MCH\_5200MHz\_RU52\_Mid\_Ant1\_NTNV

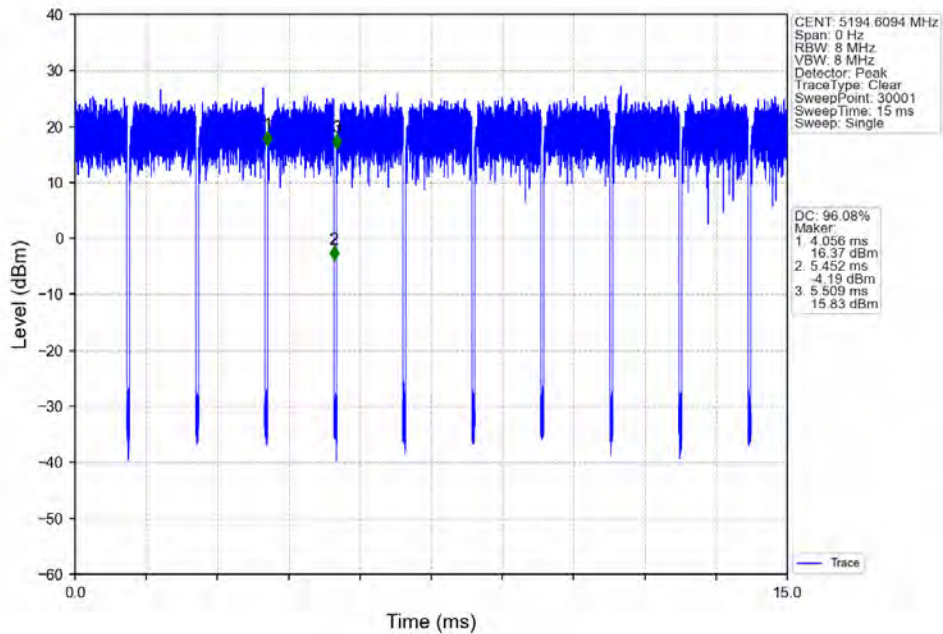


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802.11ax(HE20)\_MCH\_5200MHz\_RU106\_Left\_Ant1\_NTNV

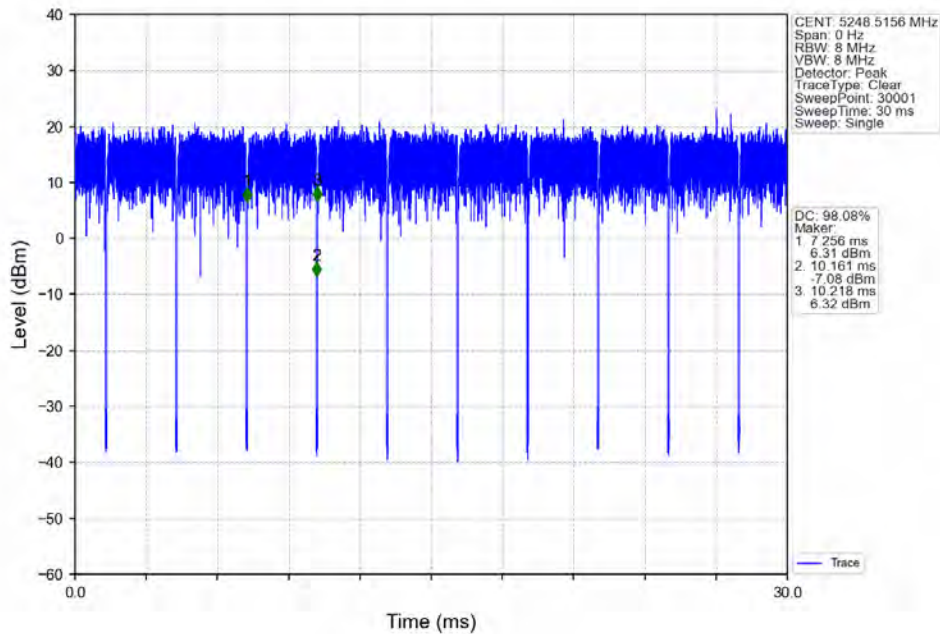


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802.11ax(HE20)\_HCH\_5240MHz\_RU26\_Right\_Ant1\_NTNV



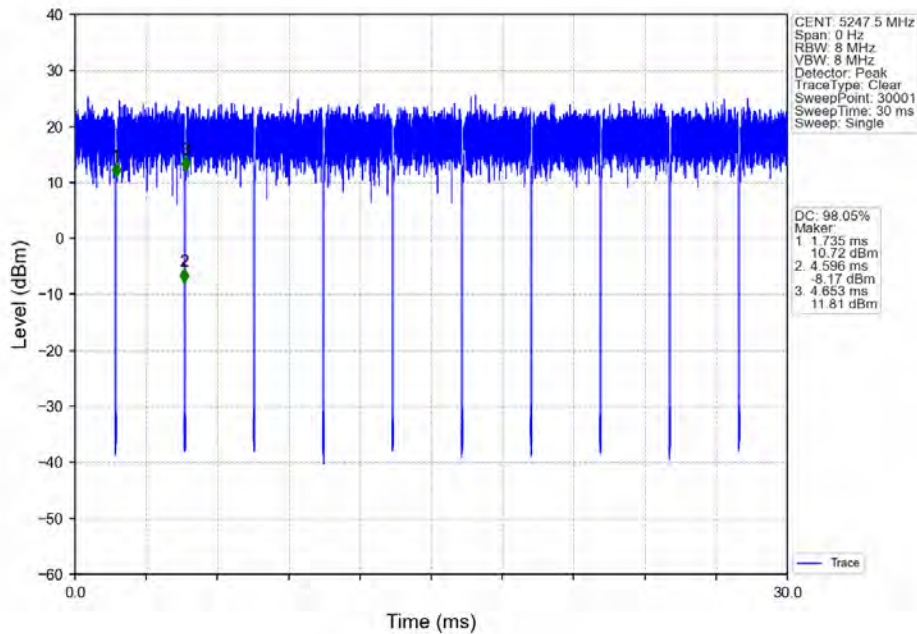
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802.11ax(HE20)\_HCH\_5240MHz\_RU52\_Right\_Ant1\_NTNV

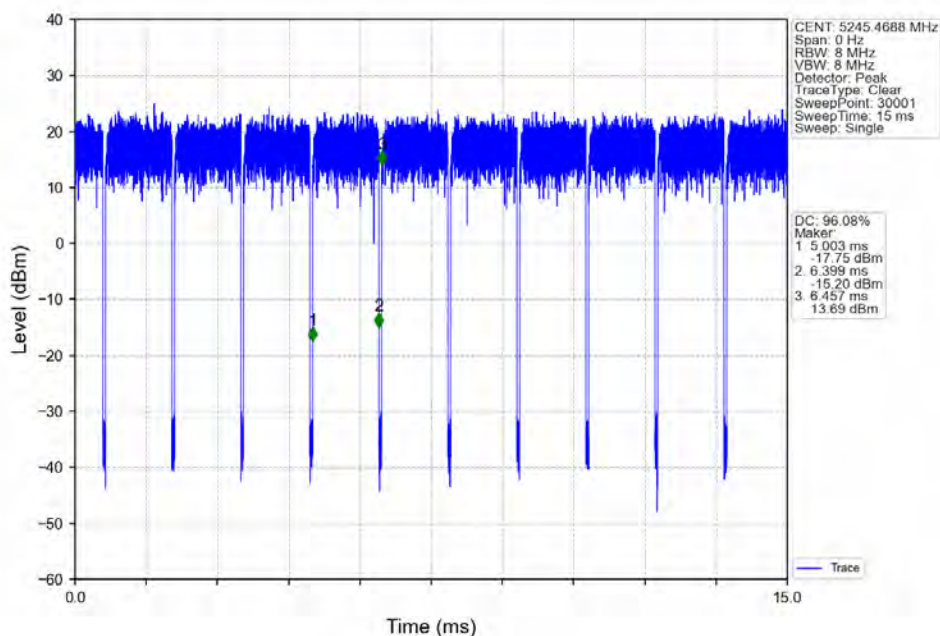


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802.11ax(HE20)\_HCH\_5240MHz\_RU106\_Right\_Ant1\_NTNV



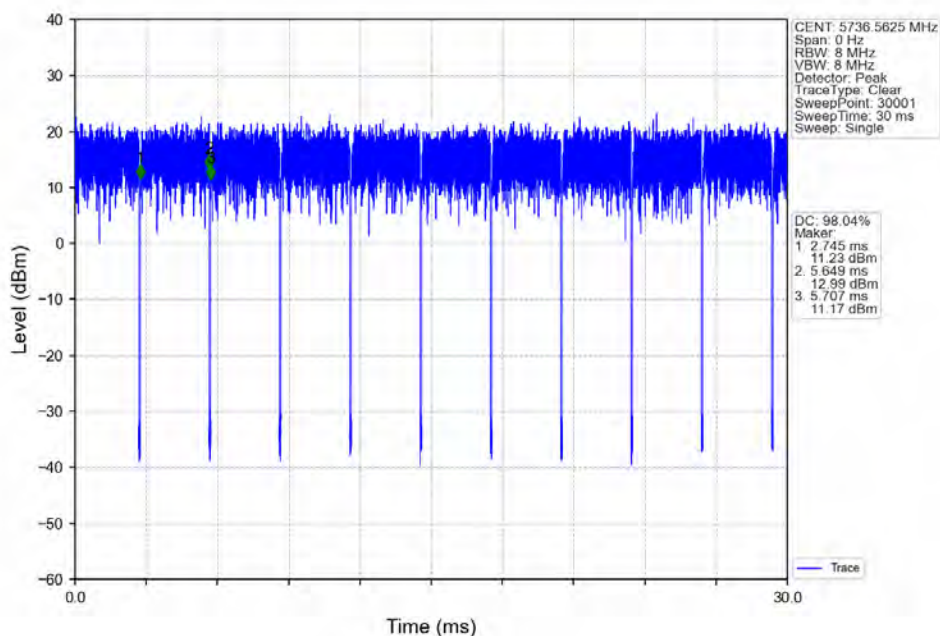
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802.11ax(HE20)\_LCH\_5745MHz\_RU26\_Left\_Ant1\_NTNV

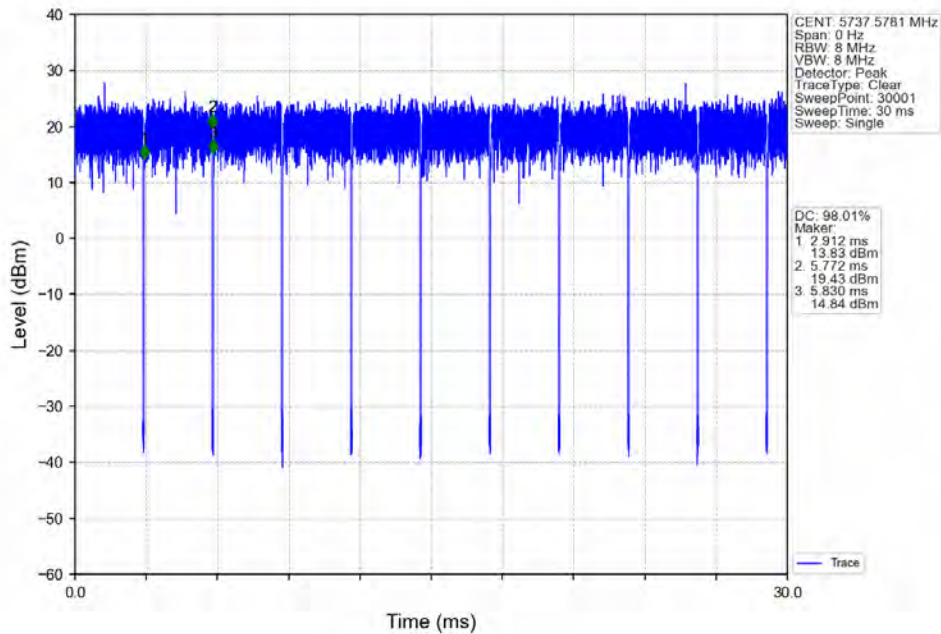


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802.11ax(HE20)\_LCH\_5745MHz\_RU52\_Left\_Ant1\_NTNV

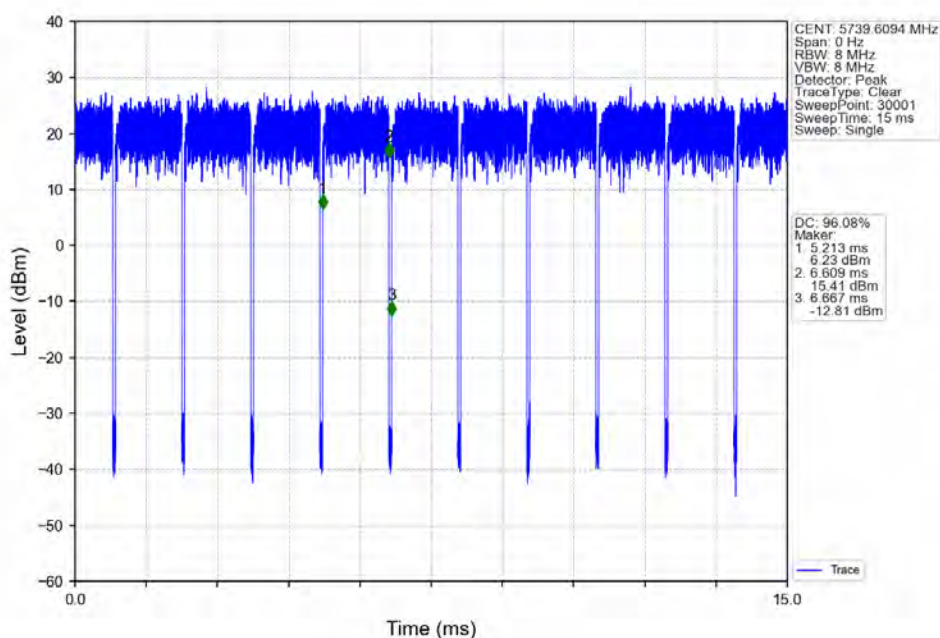


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802.11ax(HE20)\_LCH\_5745MHz\_RU106\_Left\_Ant1\_NTNV

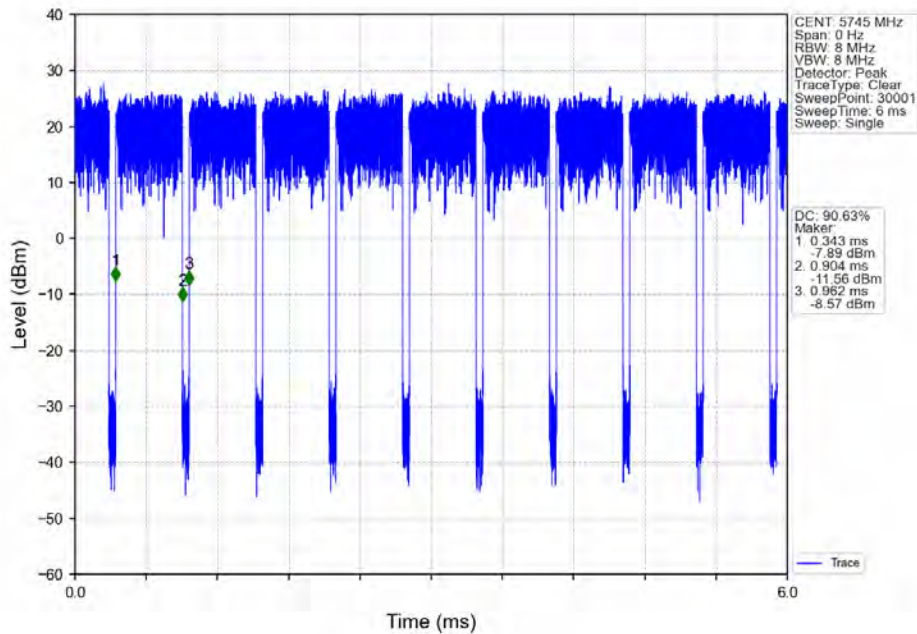


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802.11ax(HE20)\_LCH\_5745MHz\_RU242\_Left\_Ant1\_NTNV

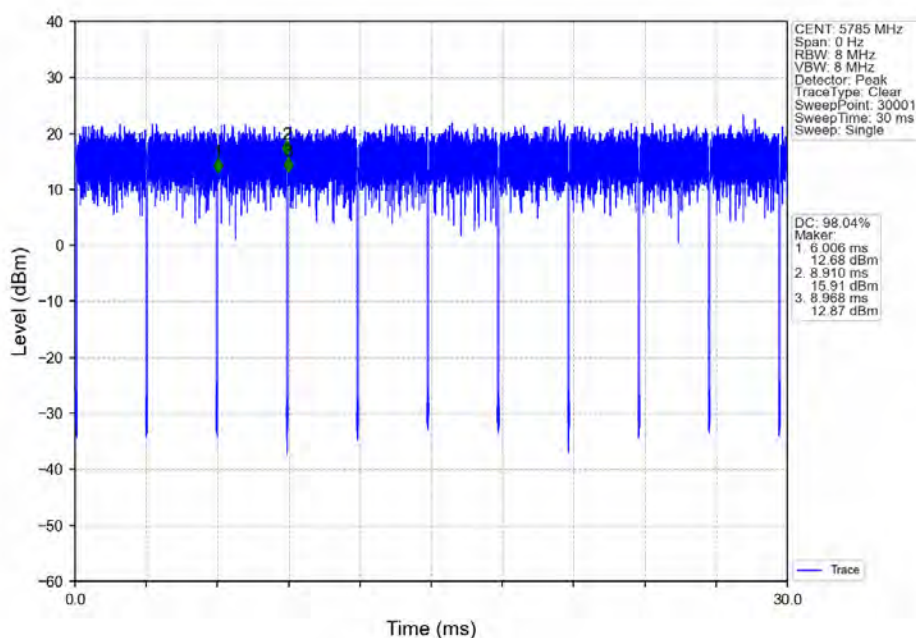


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802.11ax(HE20)\_MCH\_5785MHz\_RU26\_Mid\_Ant1\_NTNV

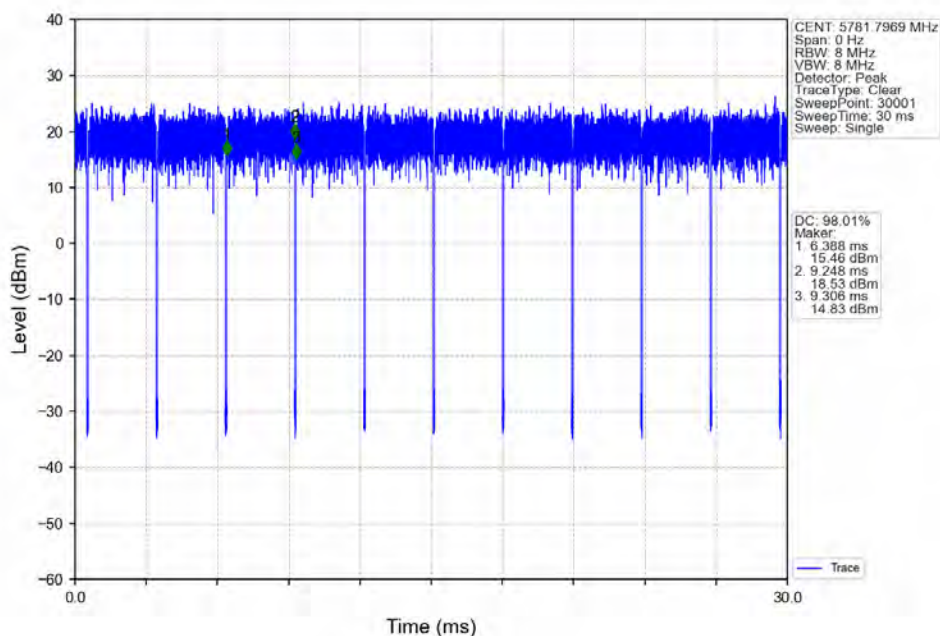


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802.11ax(HE20)\_MCH\_5785MHz\_RU52\_Mid\_Ant1\_NTNV



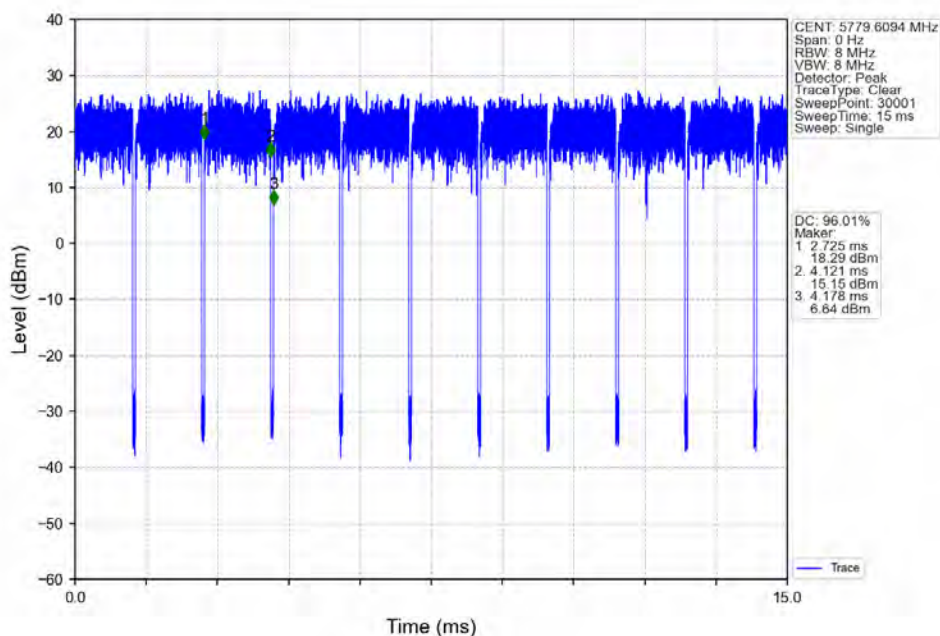
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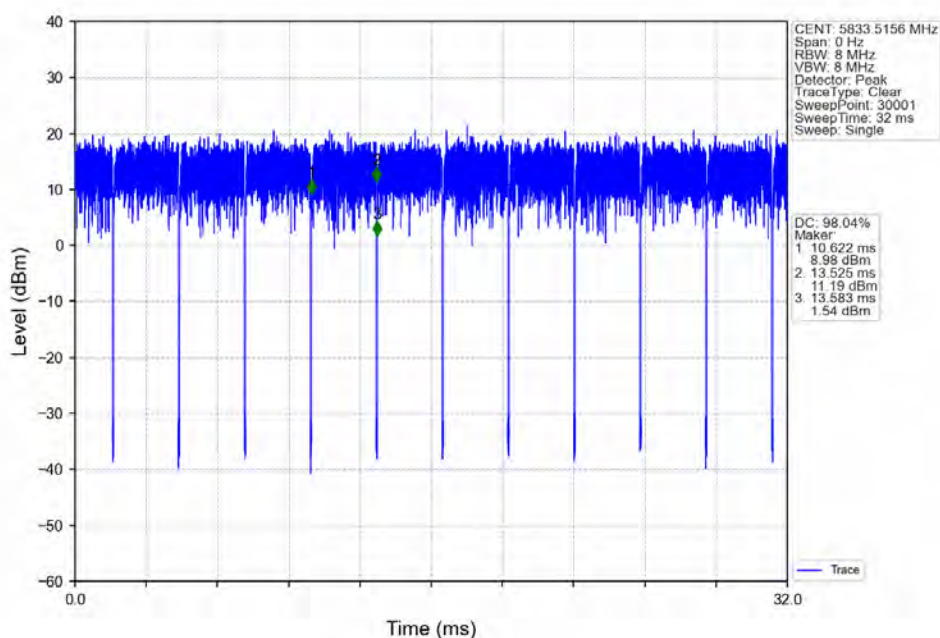


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802.11ax(HE20)\_HCH\_5825MHz\_RU26\_Right\_Ant1\_NTNV



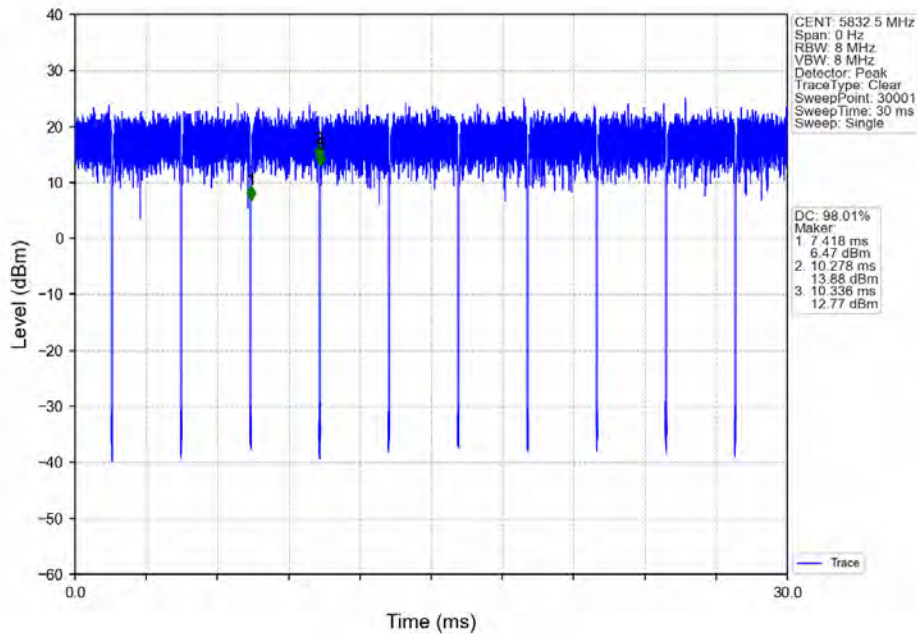
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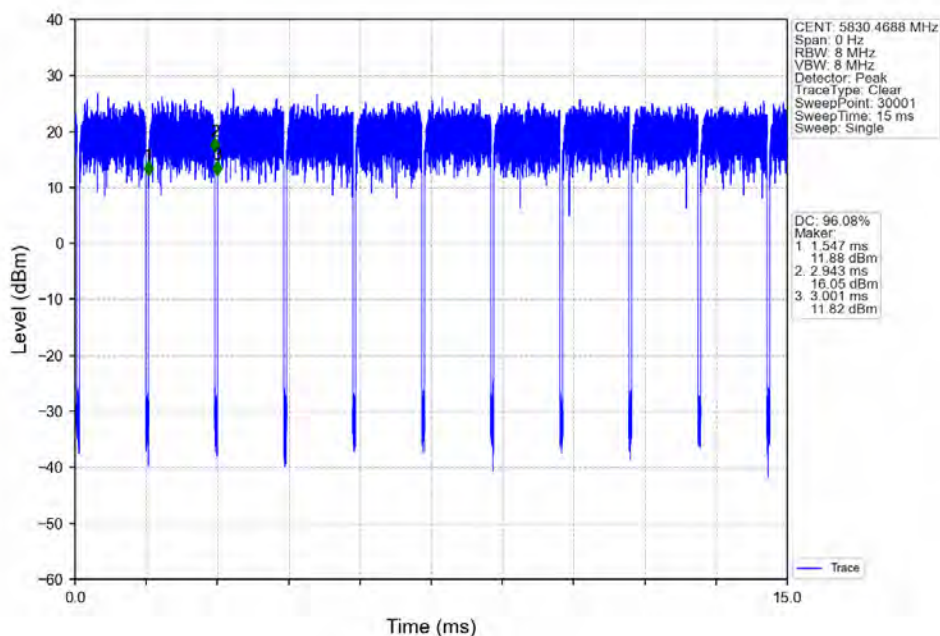


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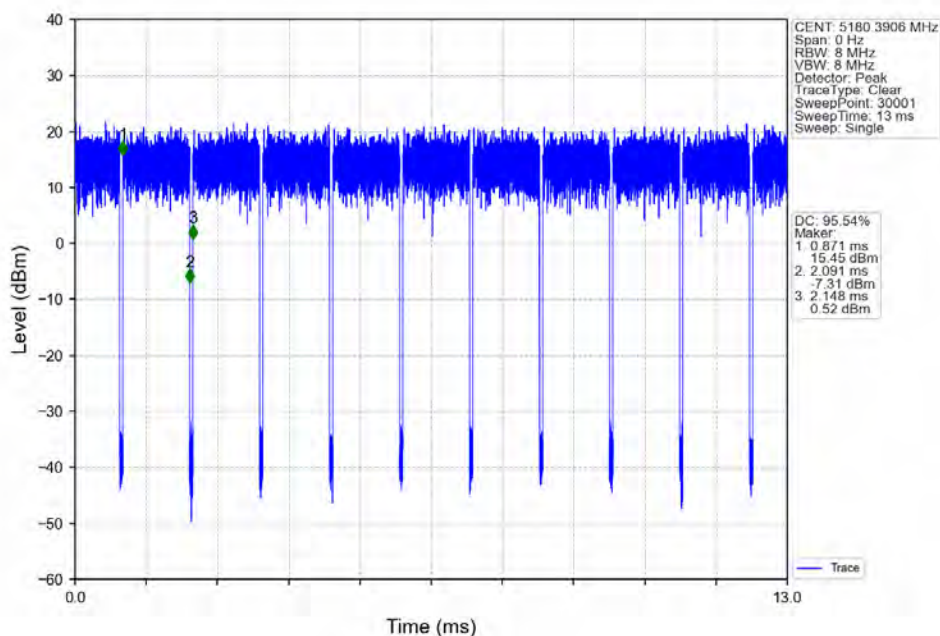


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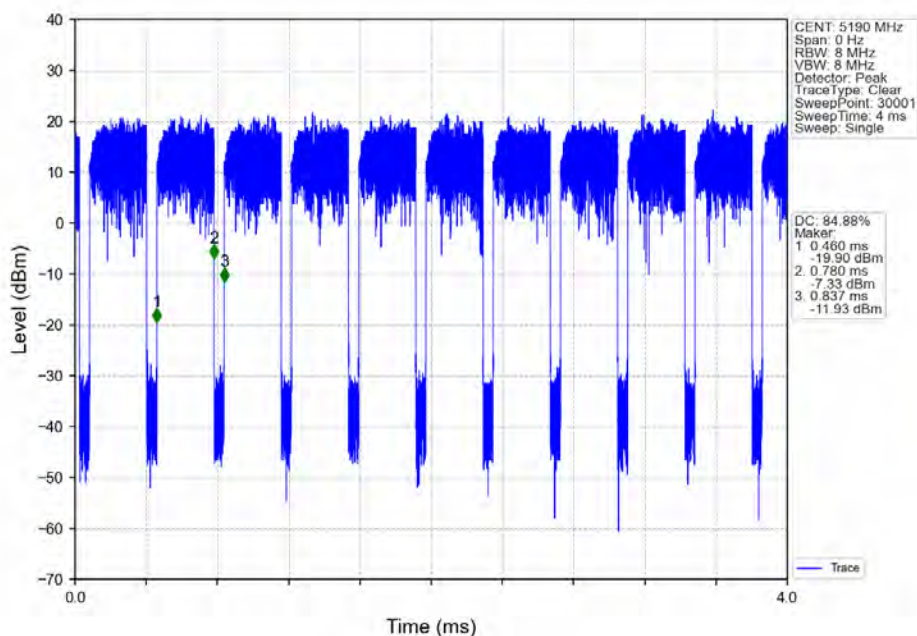


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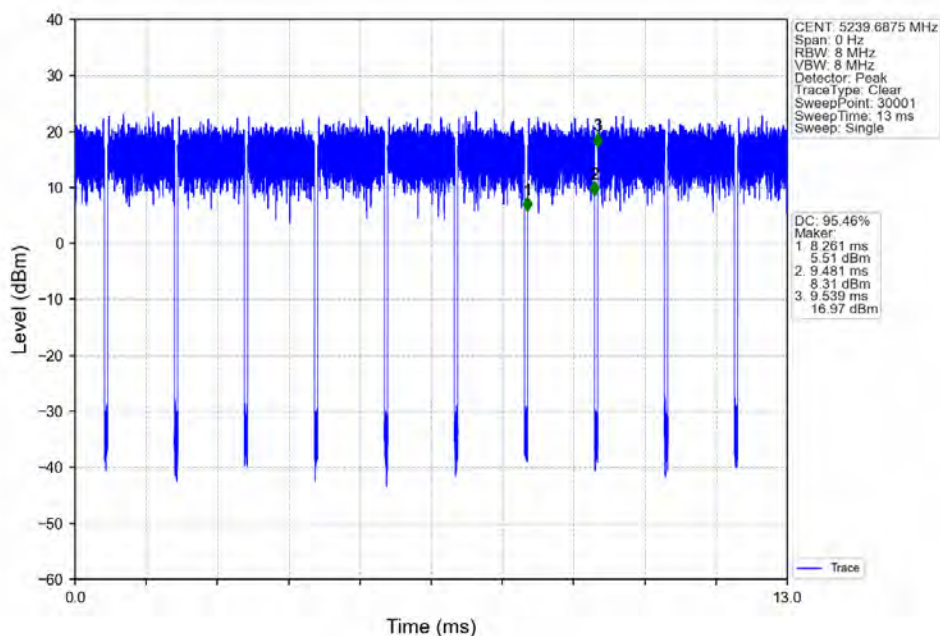


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802.11ax(HE40)\_HCH\_5230MHz\_RU242\_Right\_Ant1\_NTNV

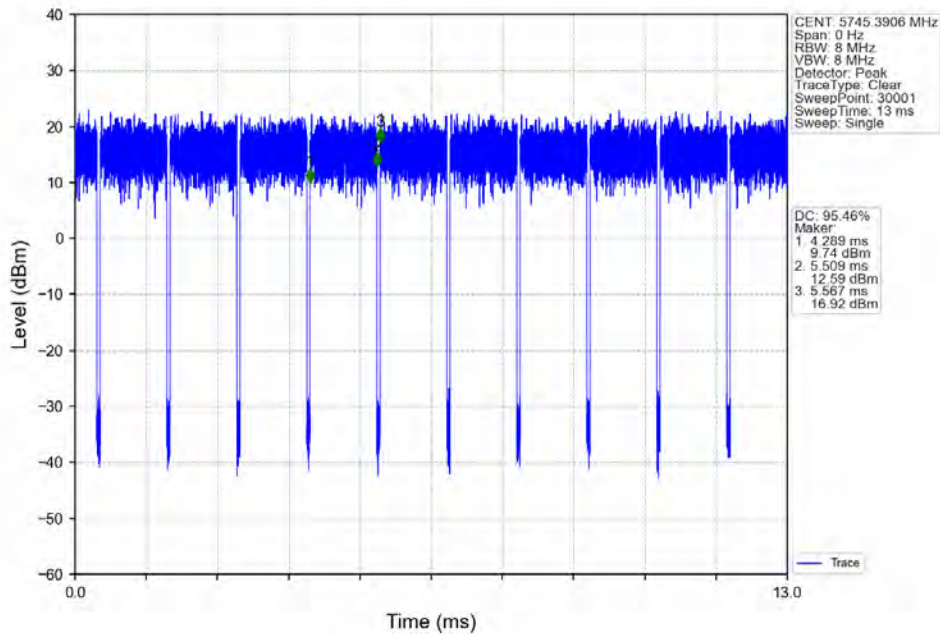


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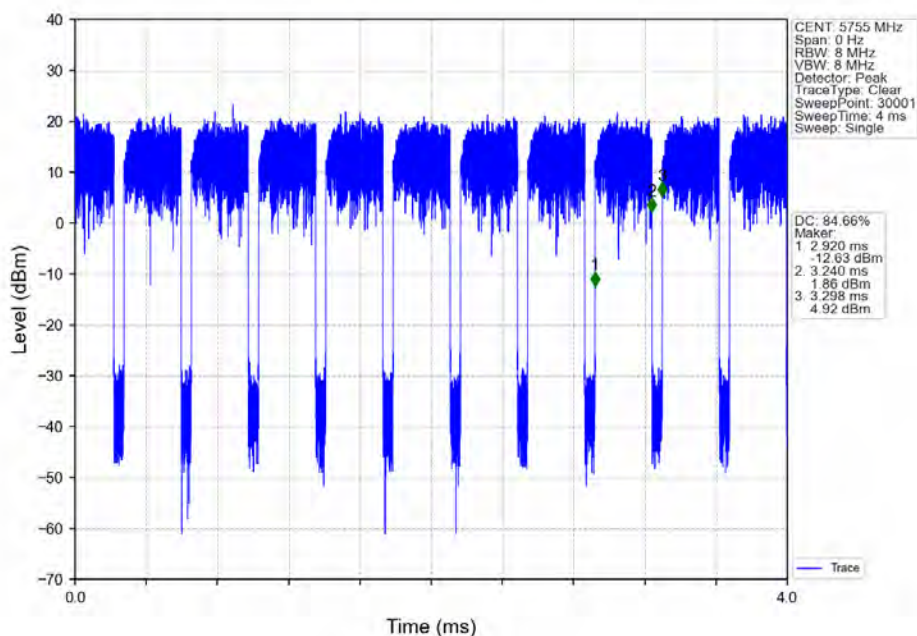
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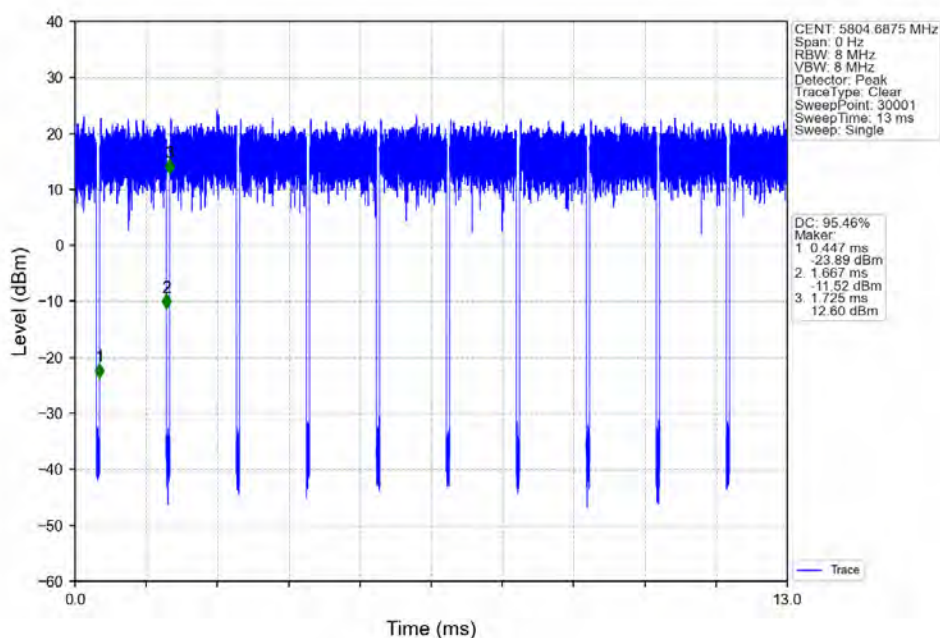
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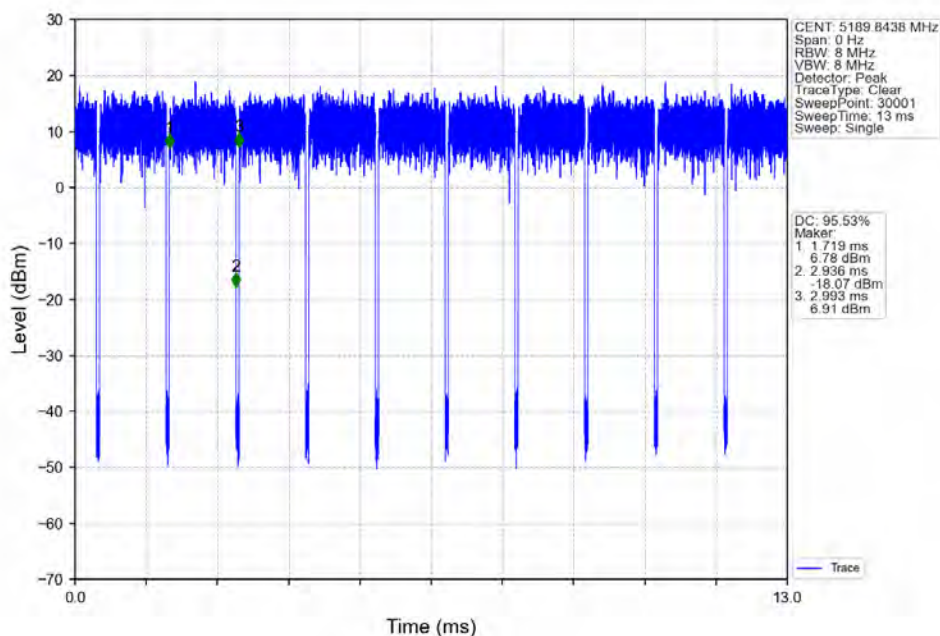


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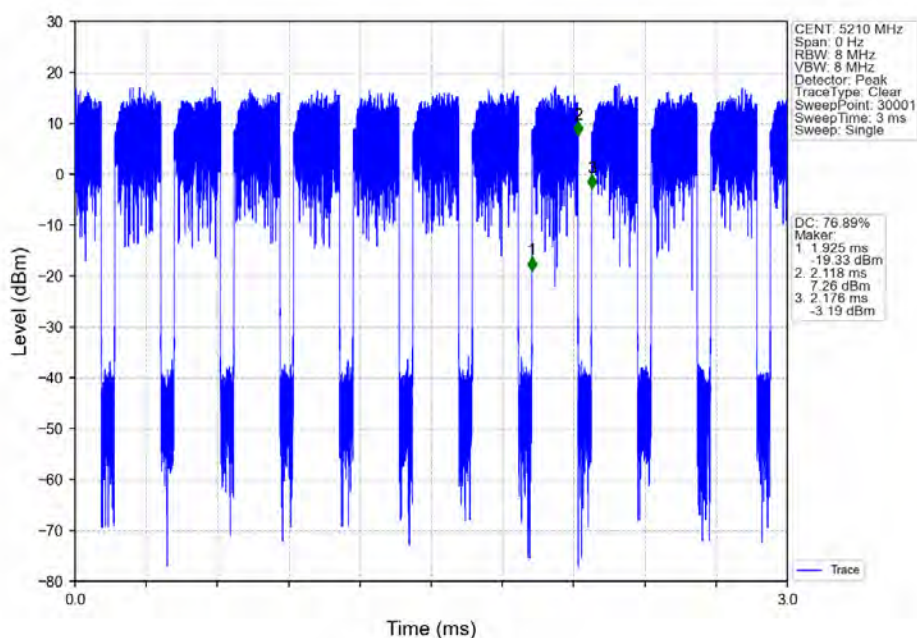


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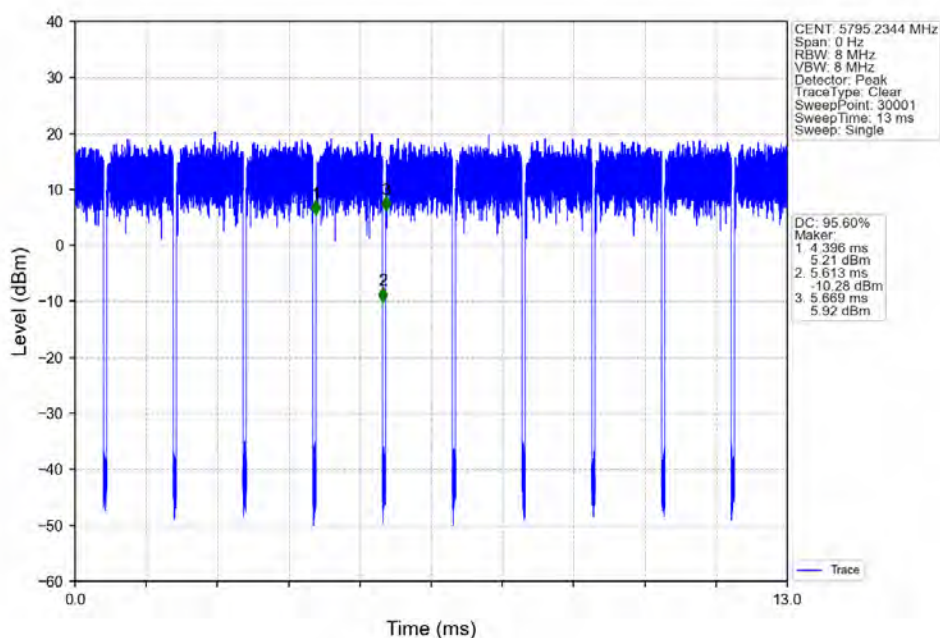


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802.11ax(HE80)\_MCH\_5775MHz\_RU484\_Right\_Ant1\_NTNV

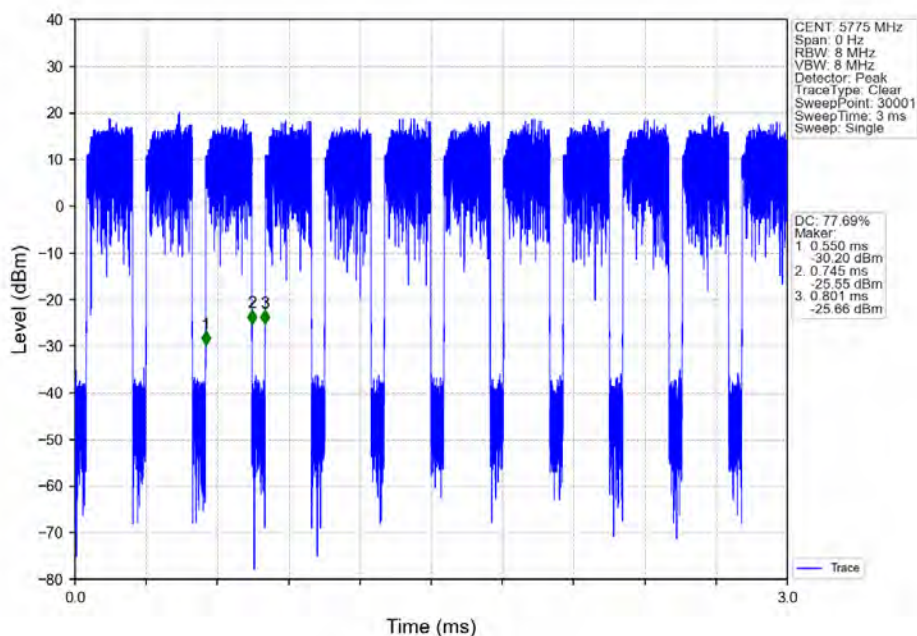


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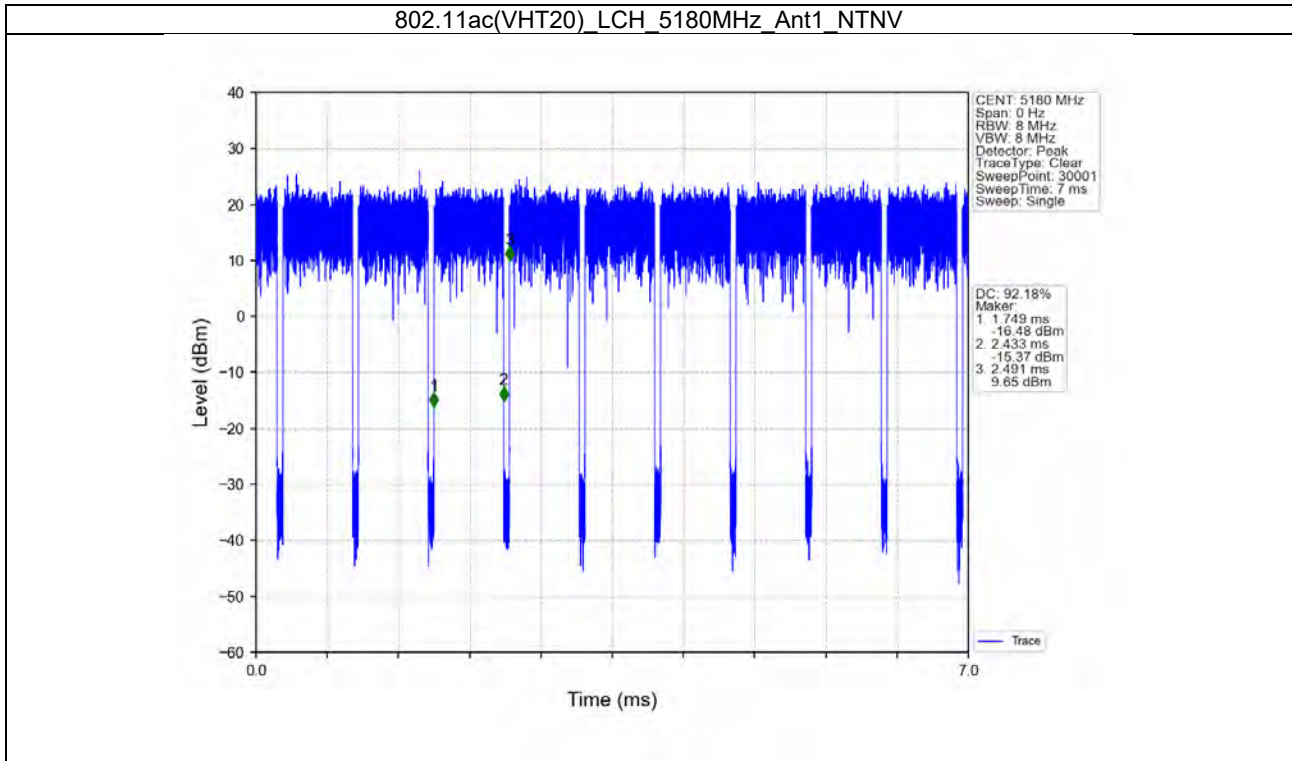
802.11ax(HE80)\_MCH\_5775MHz\_RU996\_Left\_Ant1\_NTNV



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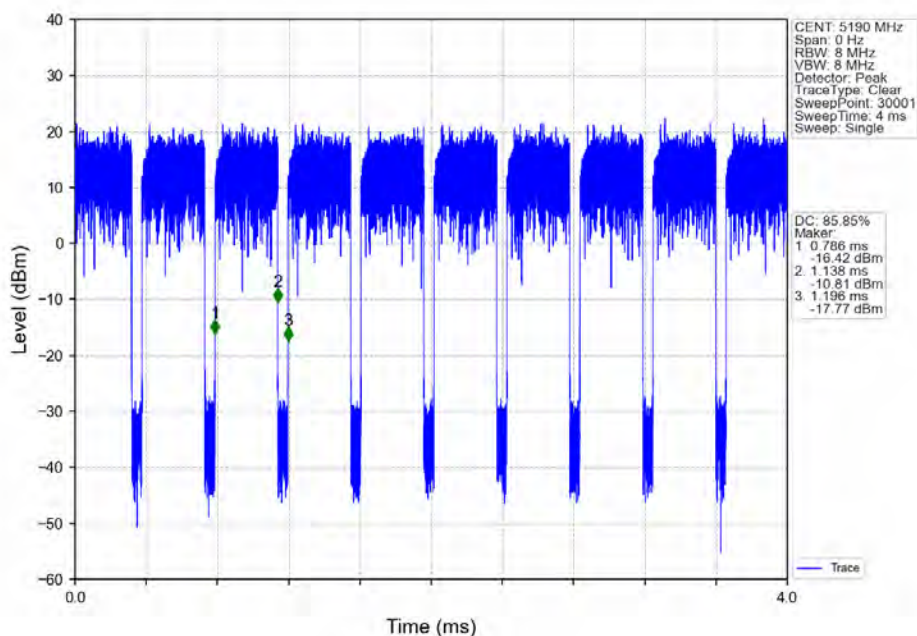
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802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



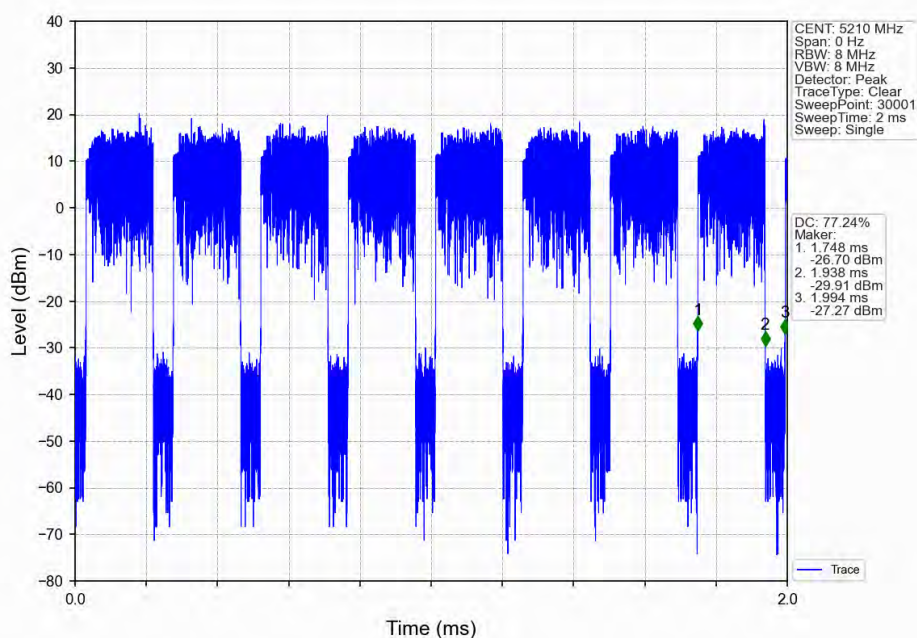
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### 802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV

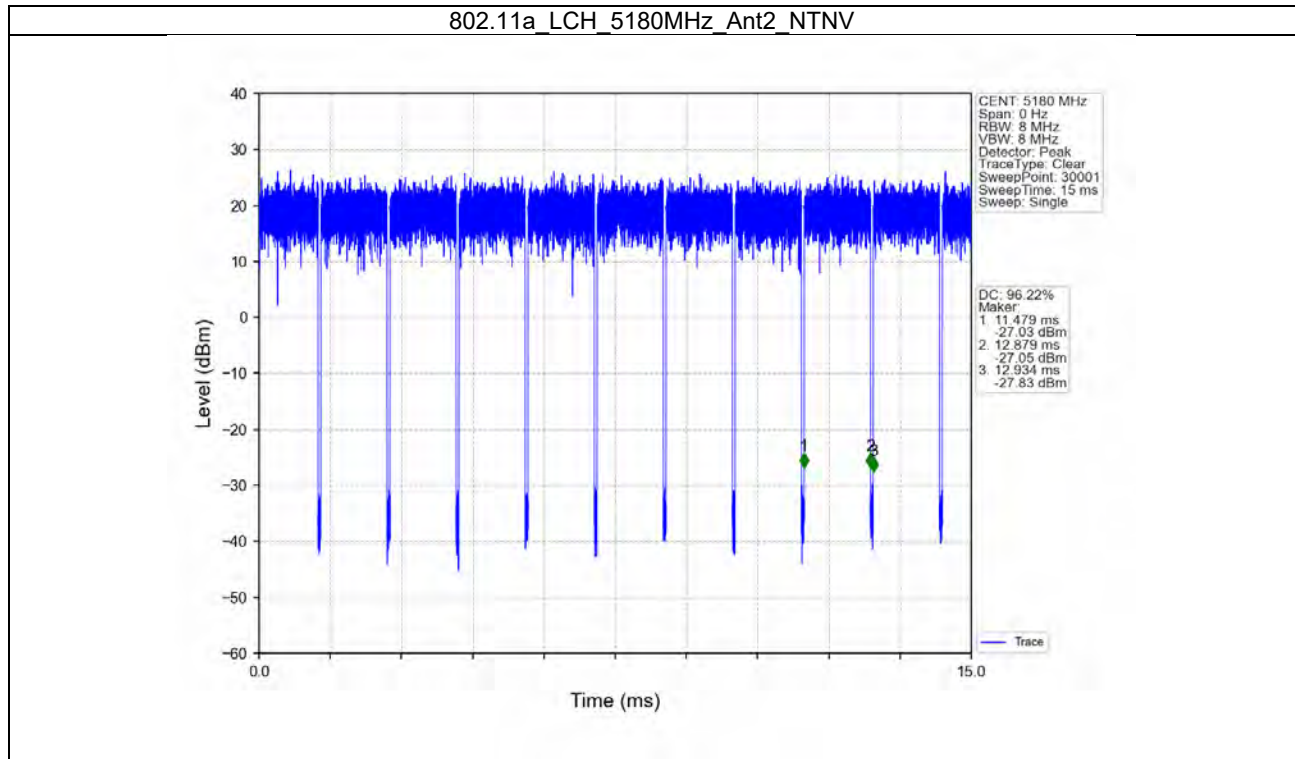


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Ant2

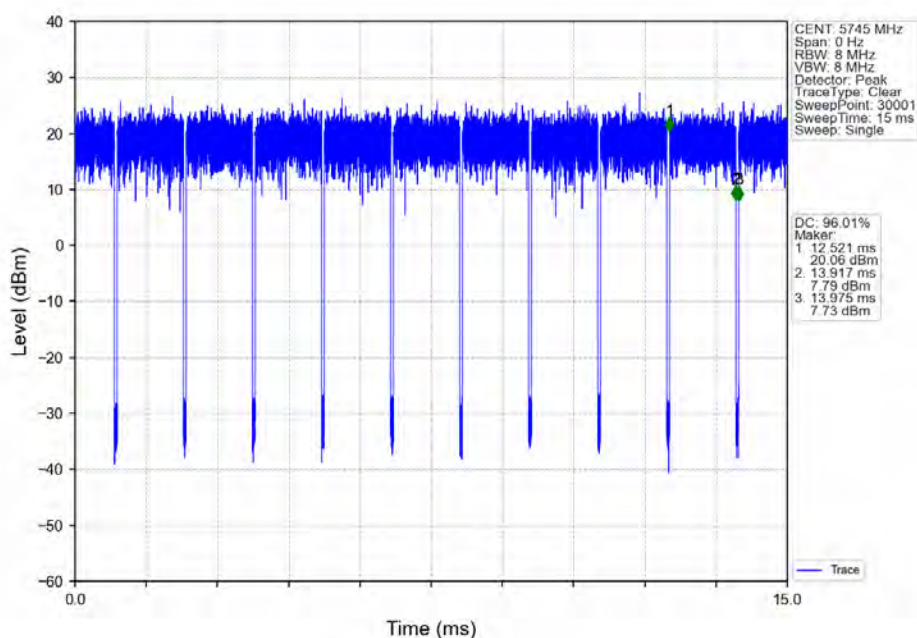


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### 802.11a\_LCH\_5745MHz\_Ant2\_NTNV

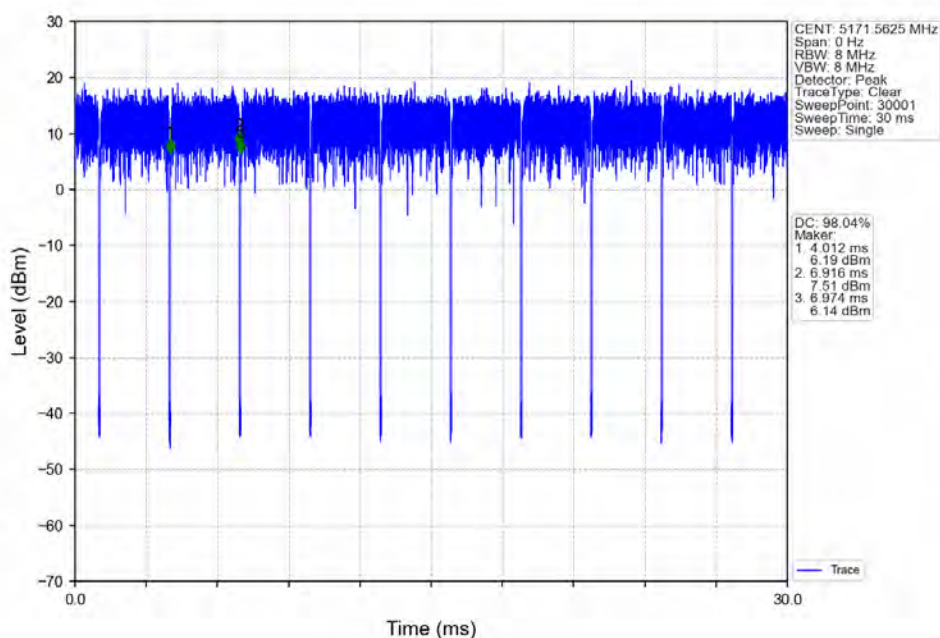


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802.11ax(HE20)\_LCH\_5180MHz\_RU26\_Left\_Ant2\_NTNV

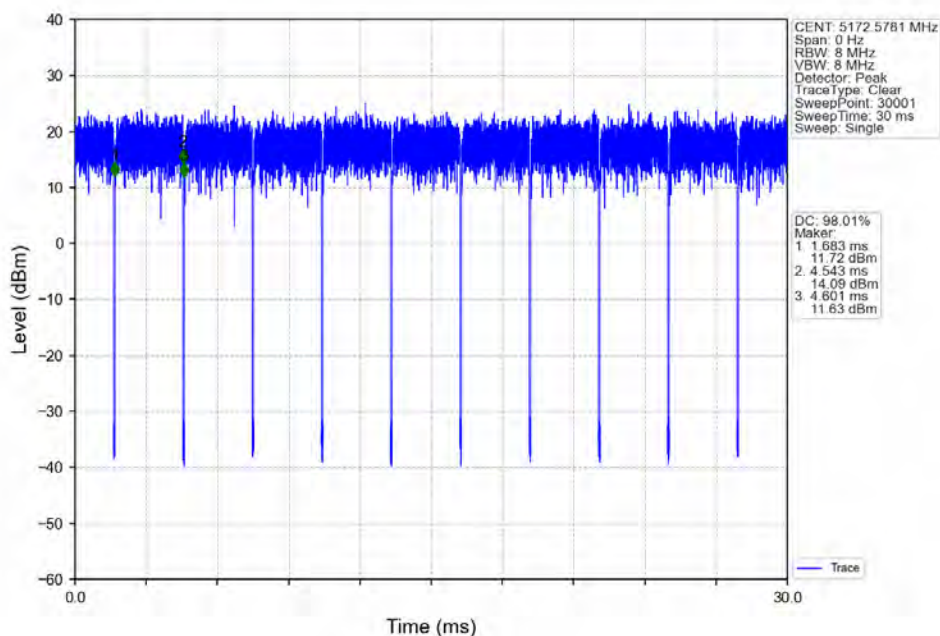


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802.11ax(HE20)\_LCH\_5180MHz\_RU52\_Left\_Ant2\_NTNV

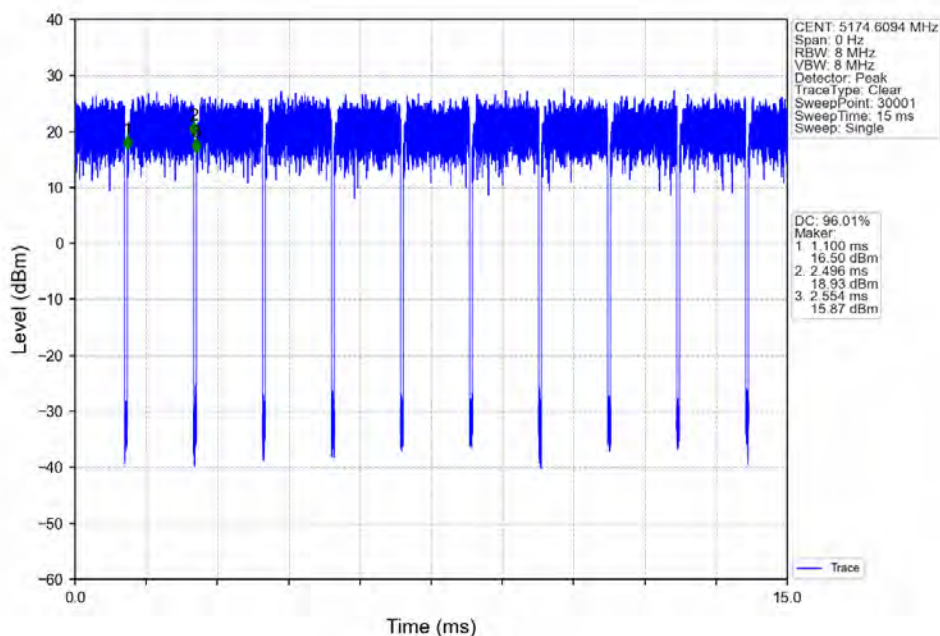


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802.11ax(HE20)\_LCH\_5180MHz\_RU106\_Left\_Ant2\_NTNV



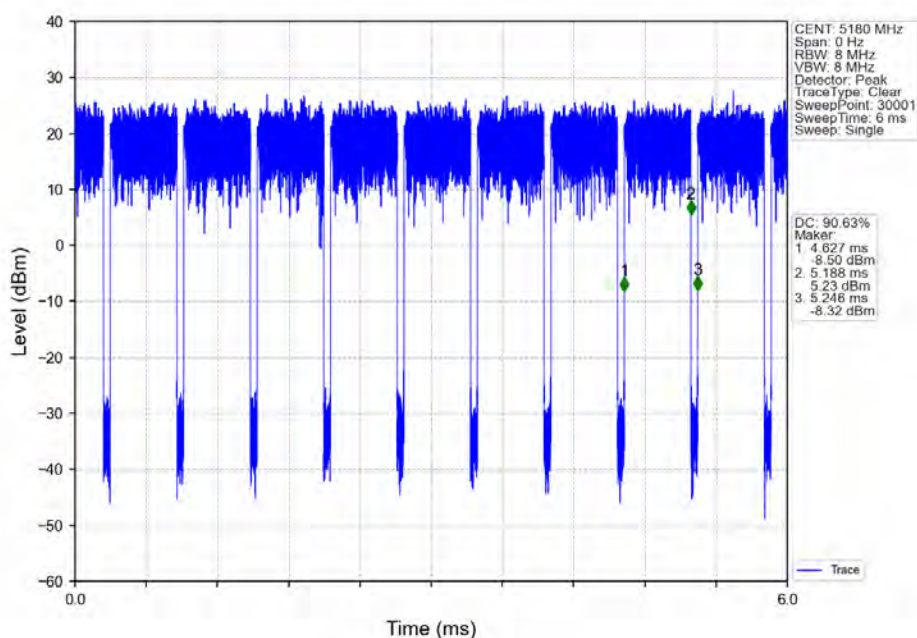
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802.11ax(HE20)\_LCH\_5180MHz\_RU242\_Left\_Ant2\_NTNV



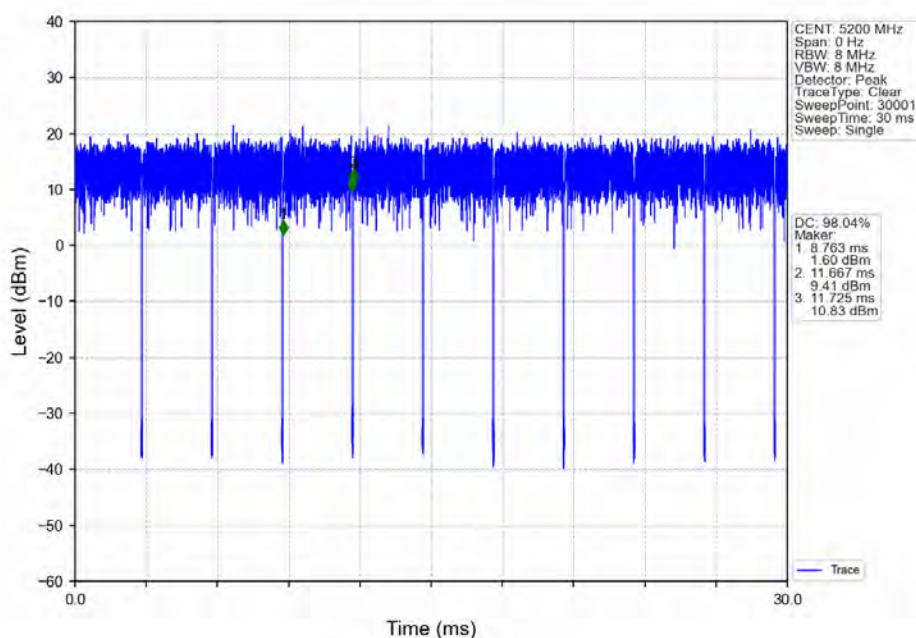
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802.11ax(HE20)\_MCH\_5200MHz\_RU26\_Mid\_Ant2\_NTNV

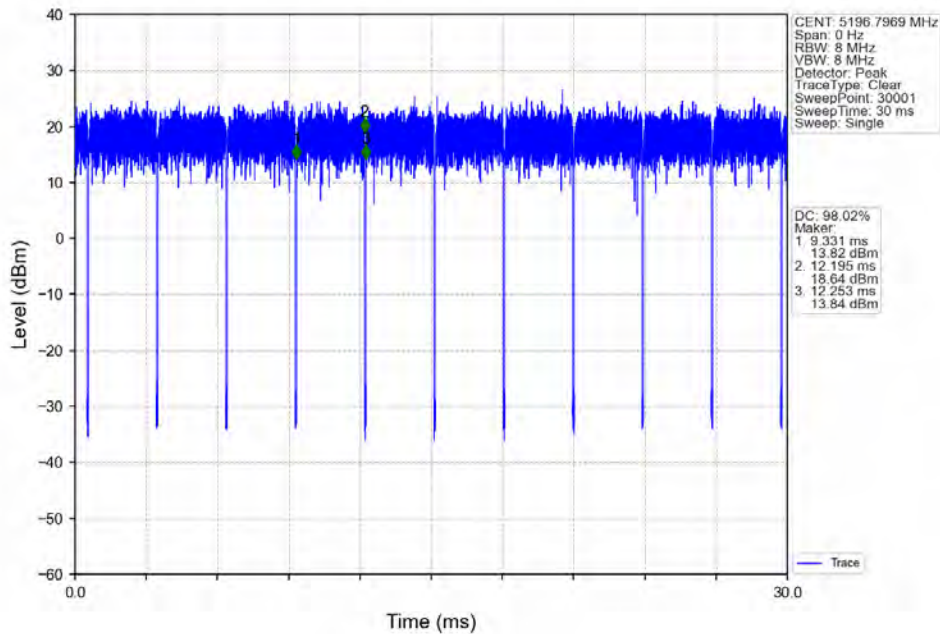


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802.11ax(HE20)\_MCH\_5200MHz\_RU52\_Mid\_Ant2\_NTNV

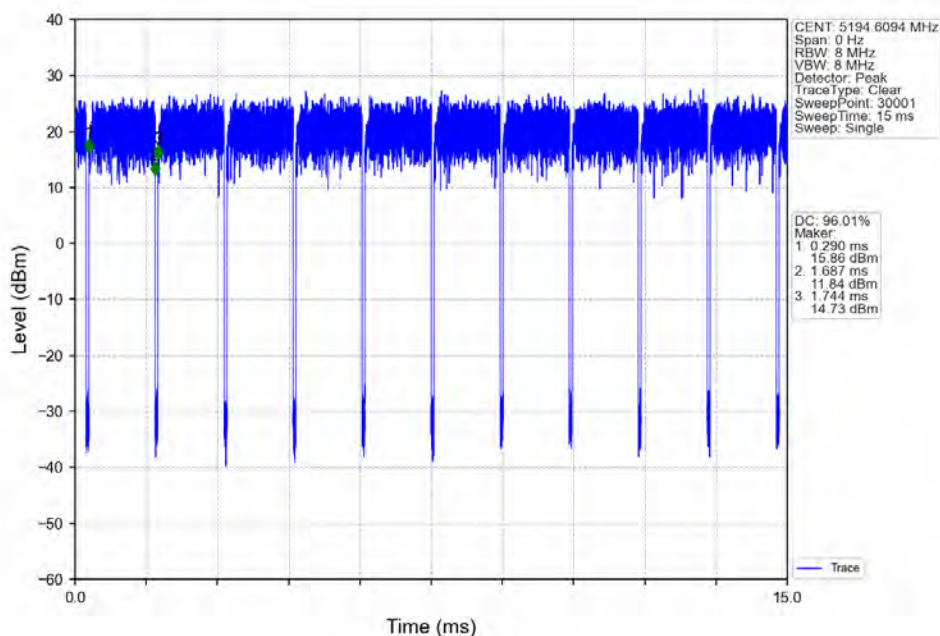


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802.11ax(HE20)\_MCH\_5200MHz\_RU106\_Left\_Ant2\_NTNV

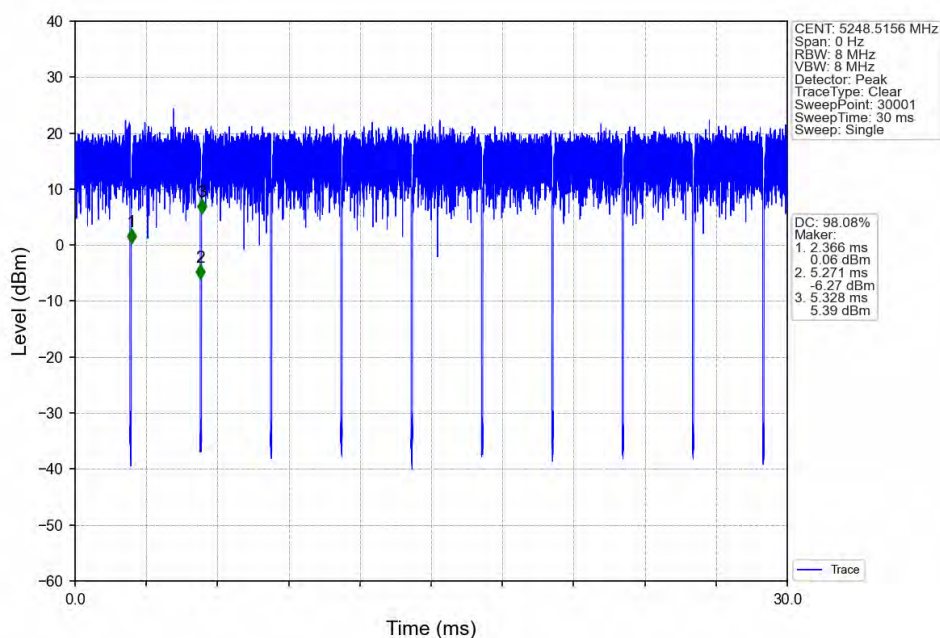


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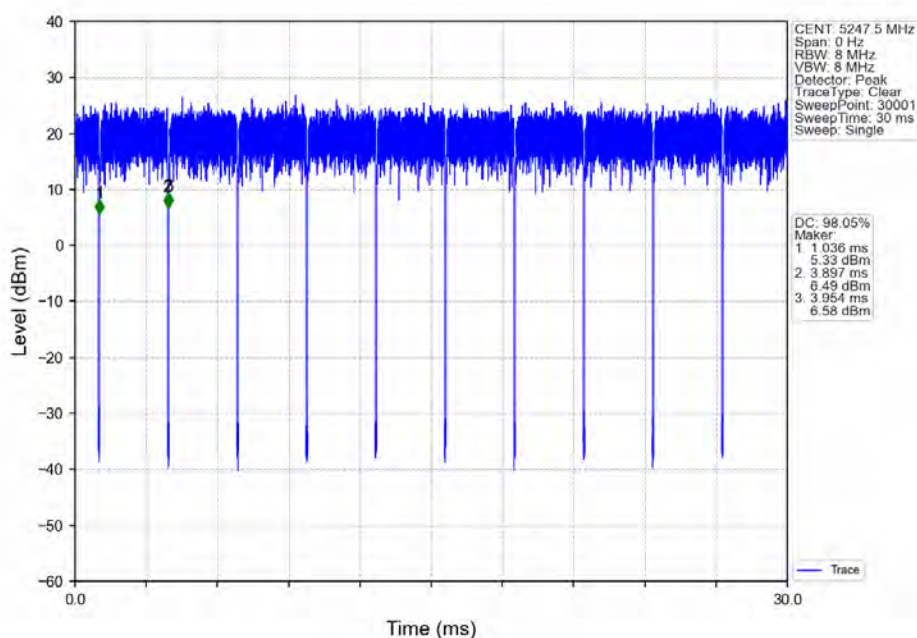


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802.11ax(HE20)\_HCH\_5240MHz\_RU52\_Right\_Ant2\_NTNV

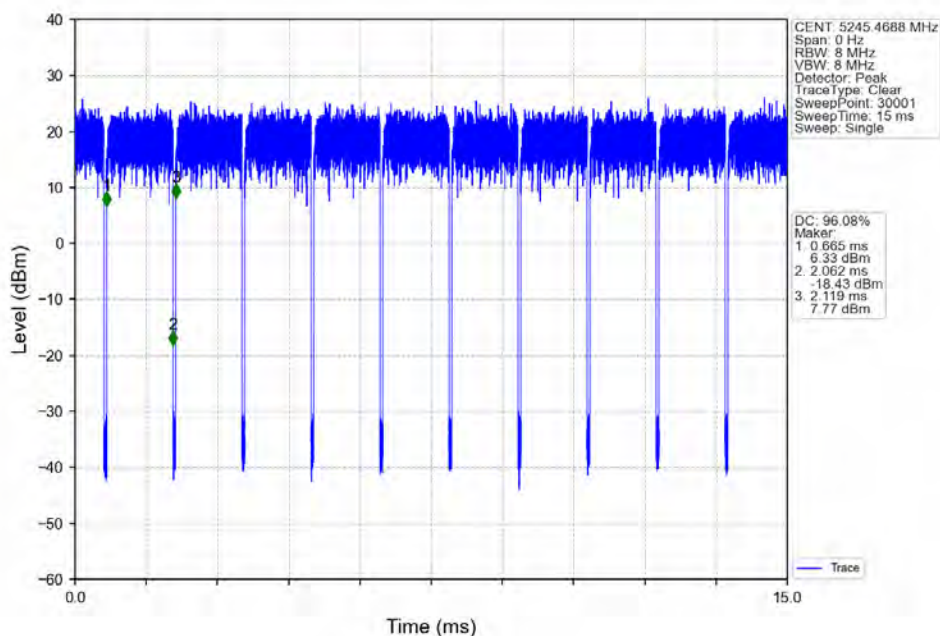


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802.11ax(HE20)\_HCH\_5240MHz\_RU106\_Right\_Ant2\_NTNV

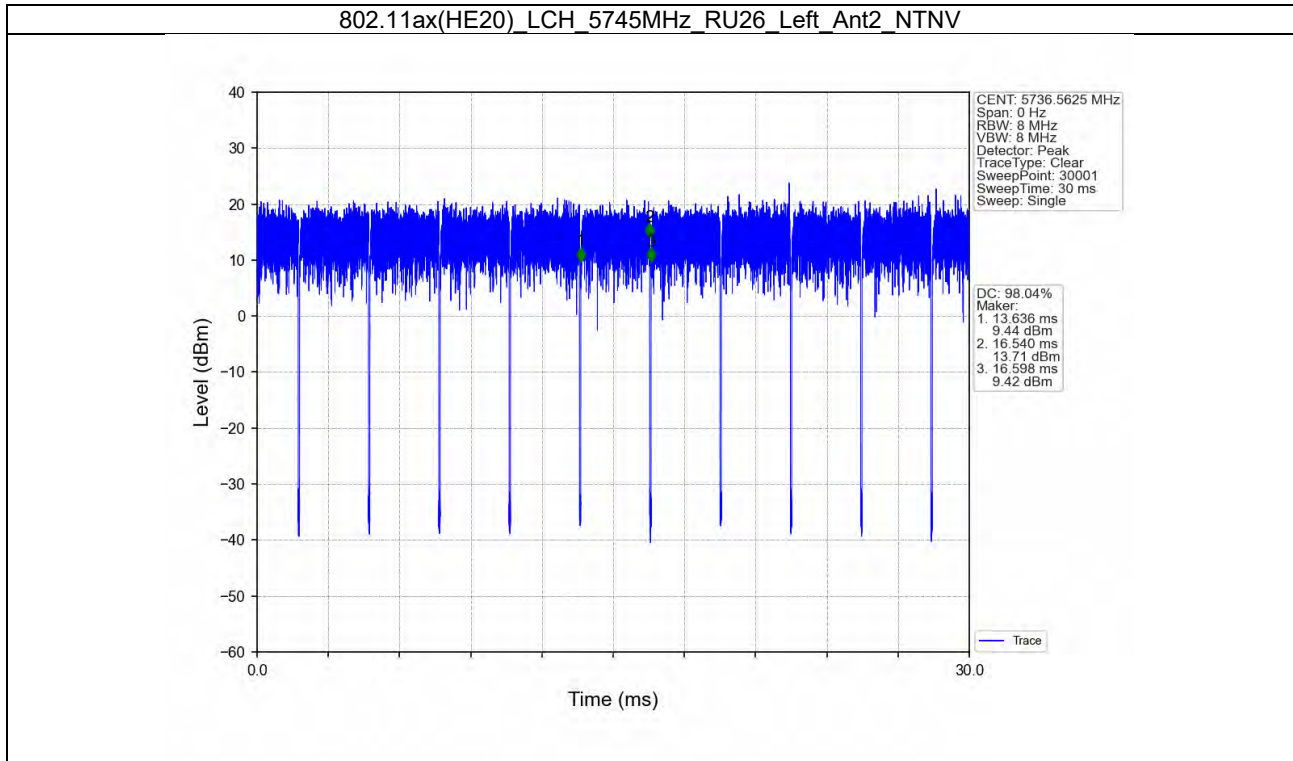


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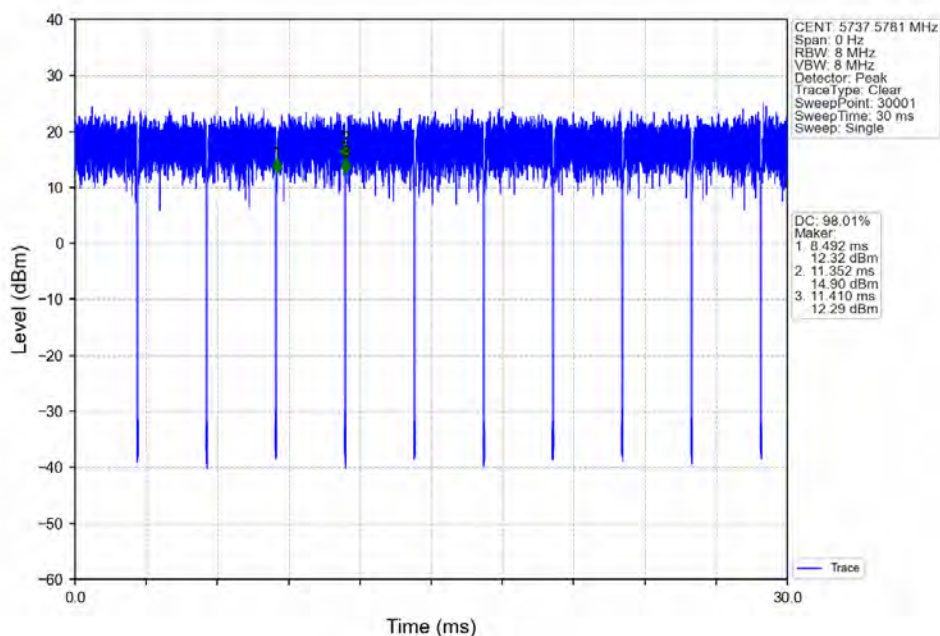
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802.11ax(HE20)\_LCH\_5745MHz\_RU52\_Left\_Ant2\_NTNV

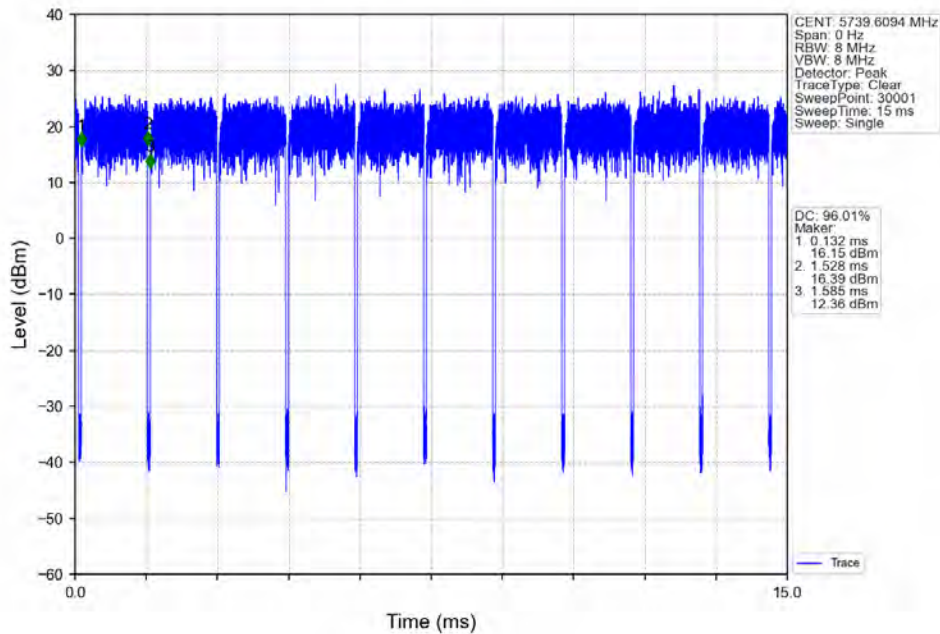


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802.11ax(HE20)\_LCH\_5745MHz\_RU106\_Left\_Ant2\_NTNV

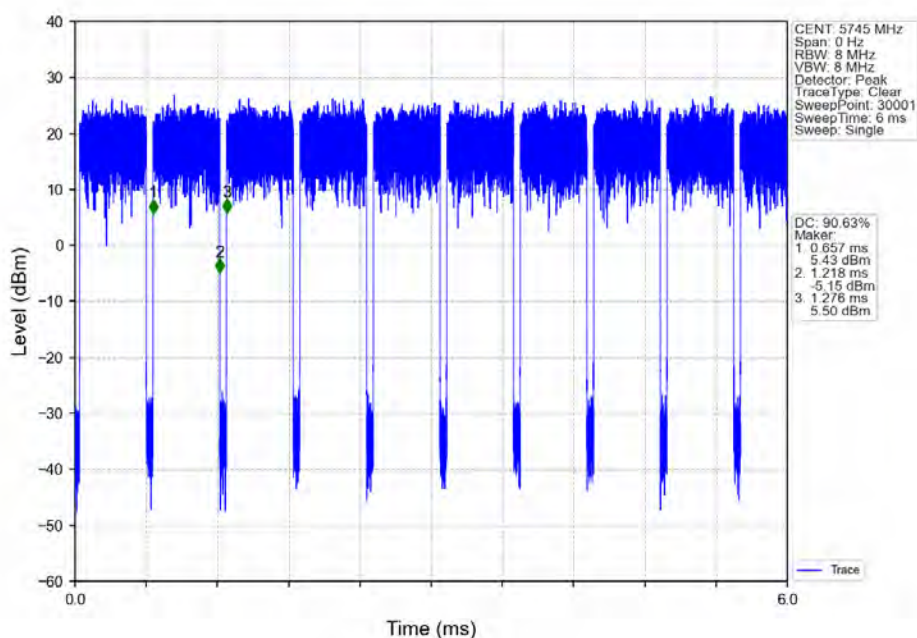


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802.11ax(HE20)\_LCH\_5745MHz\_RU242\_Left\_Ant2\_NTNV

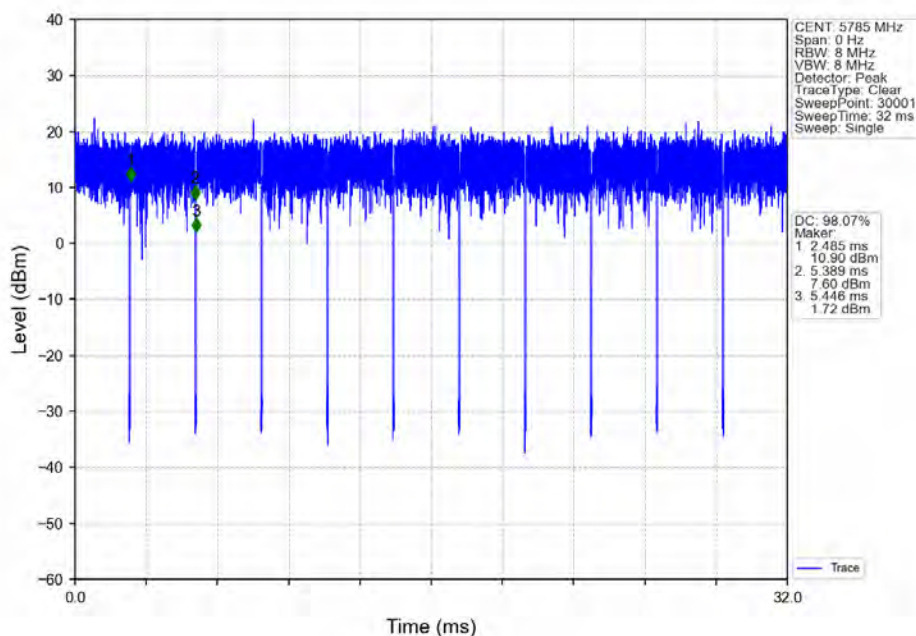


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802.11ax(HE20)\_MCH\_5785MHz\_RU26\_Mid\_Ant2\_NTNV

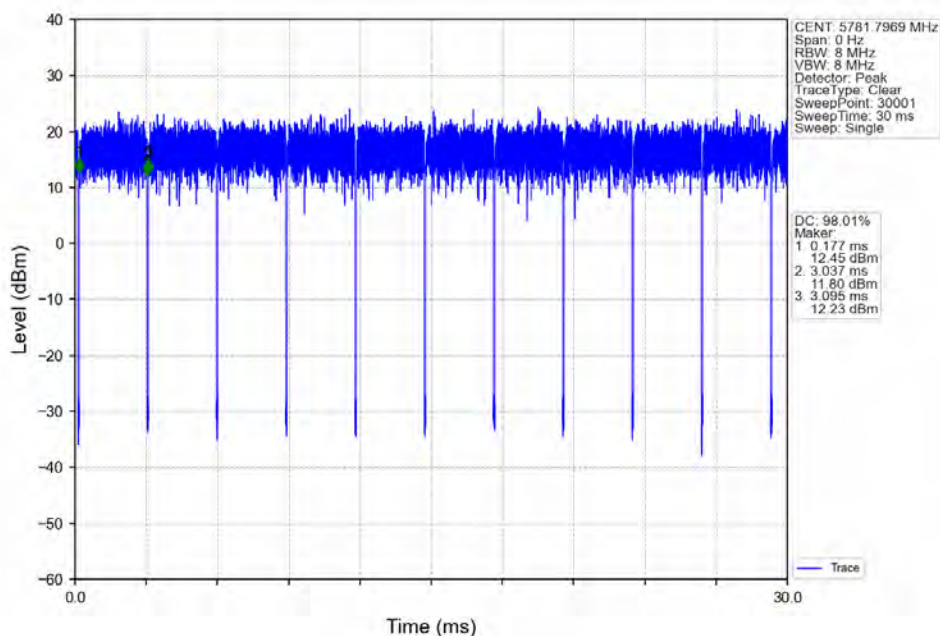


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802.11ax(HE20)\_MCH\_5785MHz\_RU52\_Mid\_Ant2\_NTNV

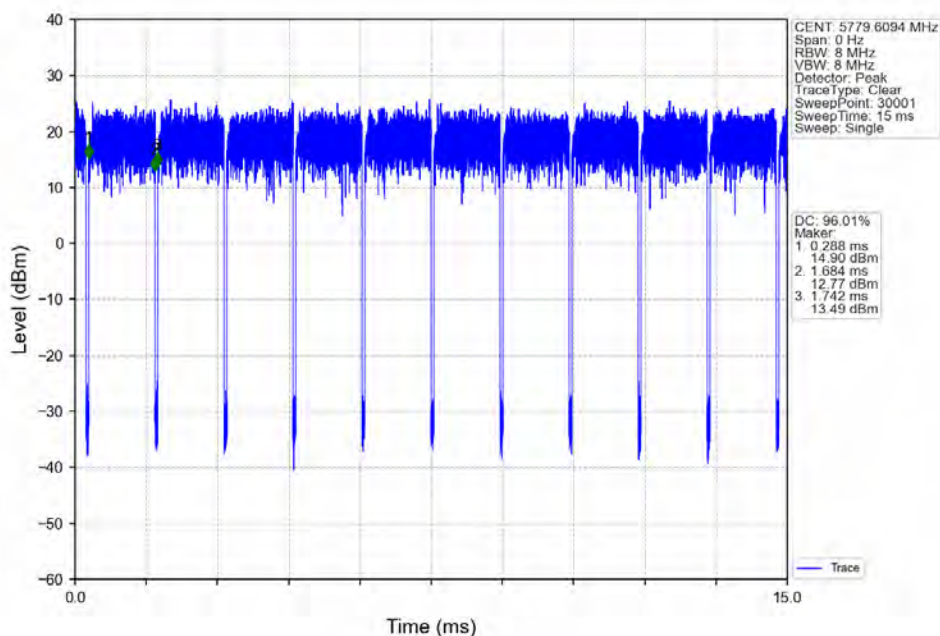


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802.11ax(HE20)\_MCH\_5785MHz\_RU106\_Left\_Ant2\_NTNV



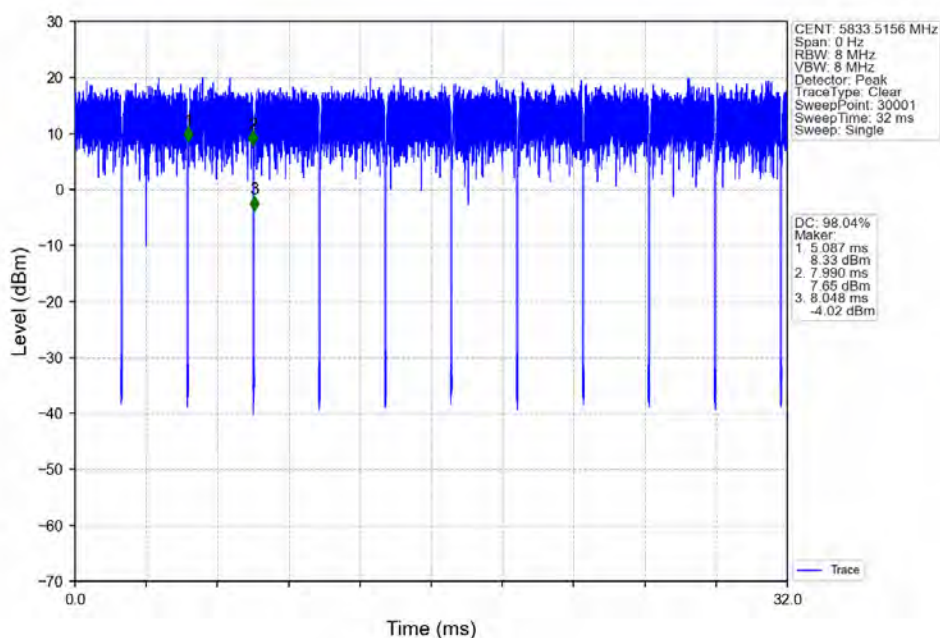
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### 802.11ax(HE20)\_HCH\_5825MHz\_RU26\_Right\_Ant2\_NTNV



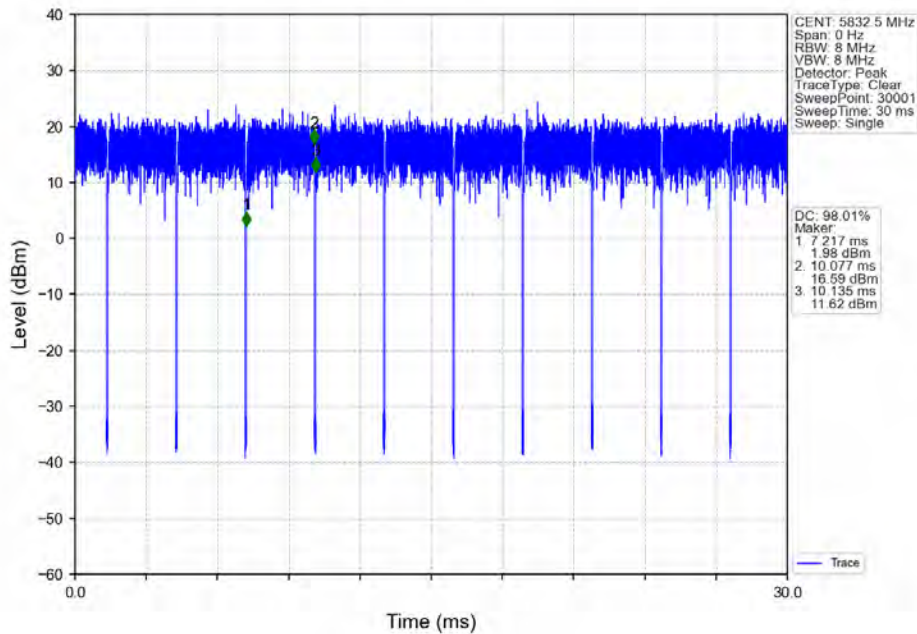
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802.11ax(HE20)\_HCH\_5825MHz\_RU52\_Right\_Ant2\_NTNV

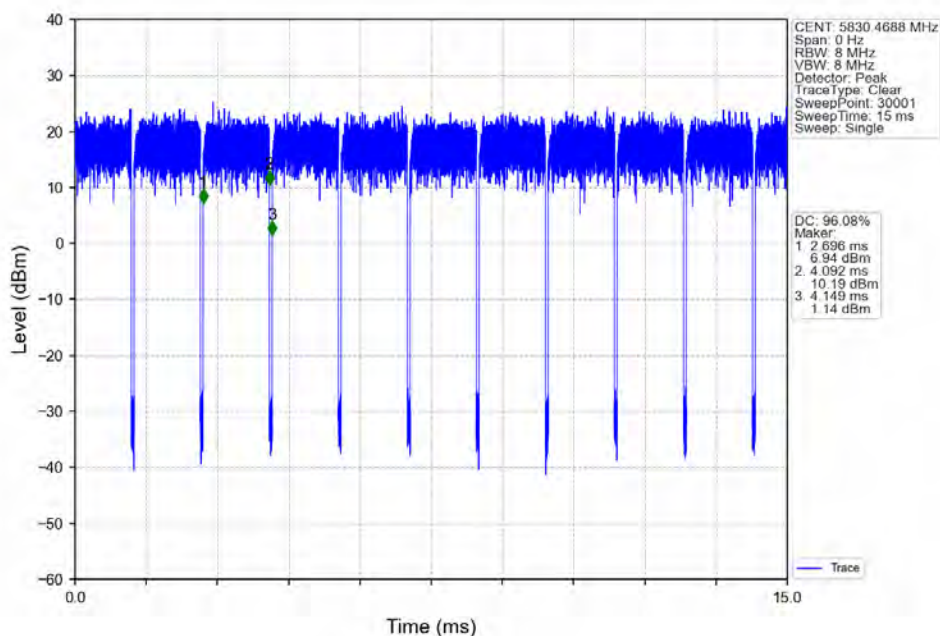


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802.11ax(HE20)\_HCH\_5825MHz\_RU106\_Right\_Ant2\_NTNV

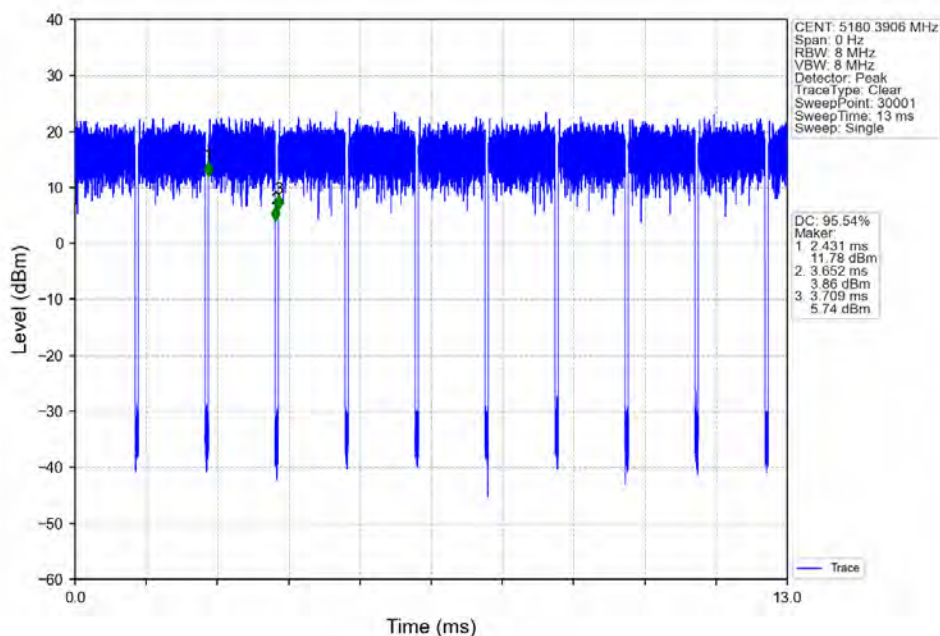


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802.11ax(HE40)\_LCH\_5190MHz\_RU242\_Left\_Ant2\_NTNV

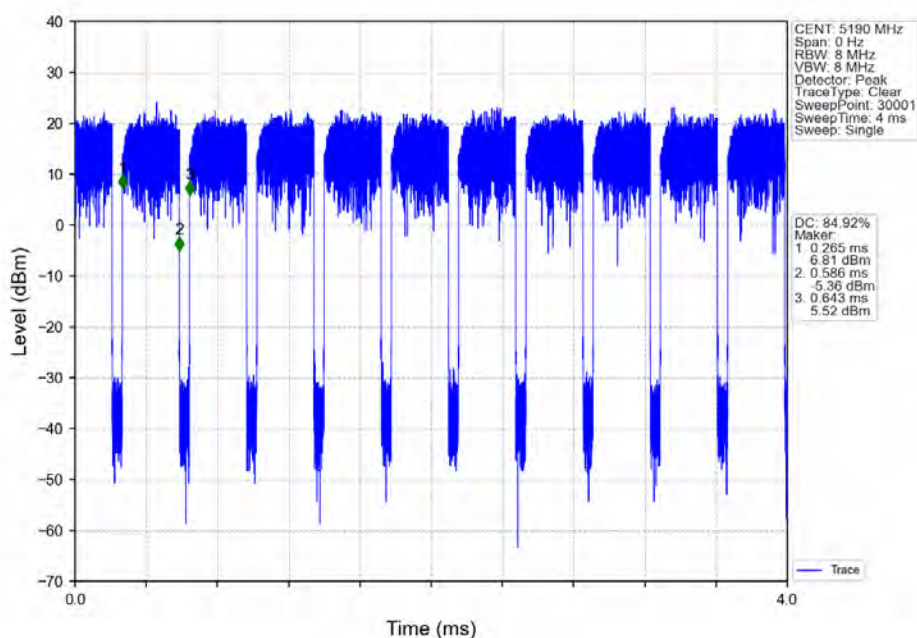


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802.11ax(HE40)\_LCH\_5190MHz\_RU484\_Left\_Ant2\_NTNV



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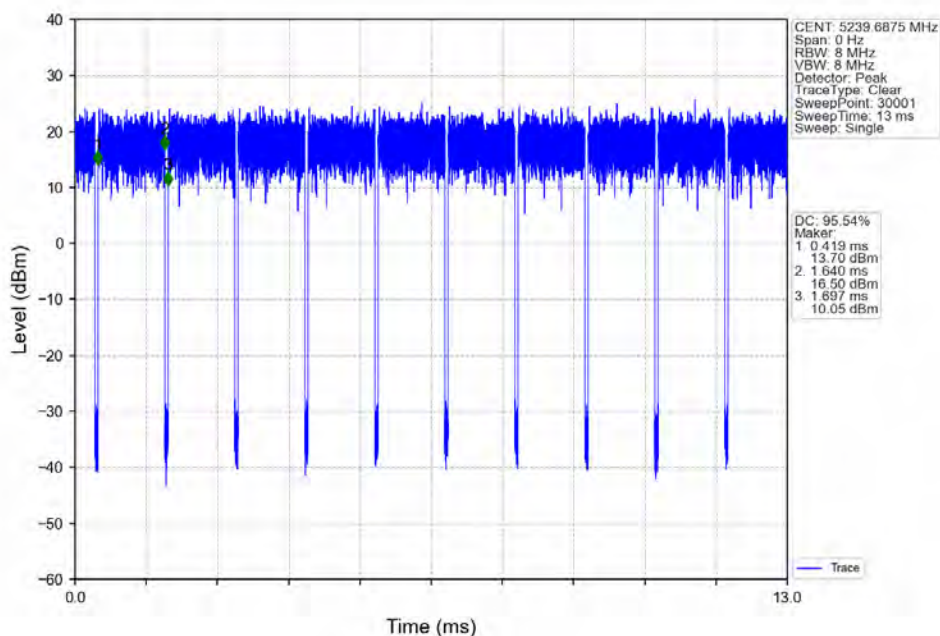
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802.11ax(HE40)\_HCH\_5230MHz\_RU242\_Right\_Ant2\_NTNV

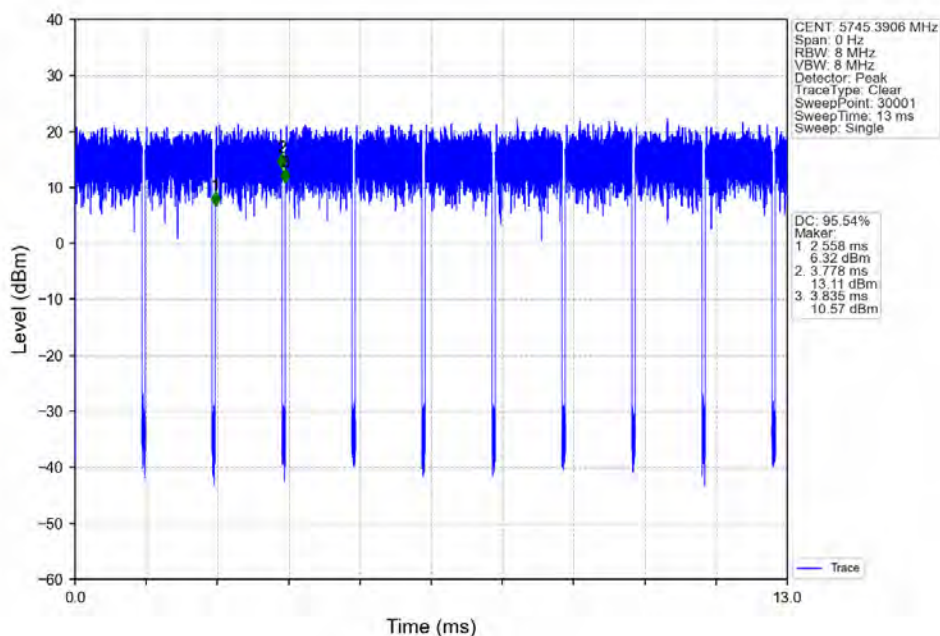


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802.11ax(HE40)\_LCH\_5755MHz\_RU242\_Left\_Ant2\_NTNV



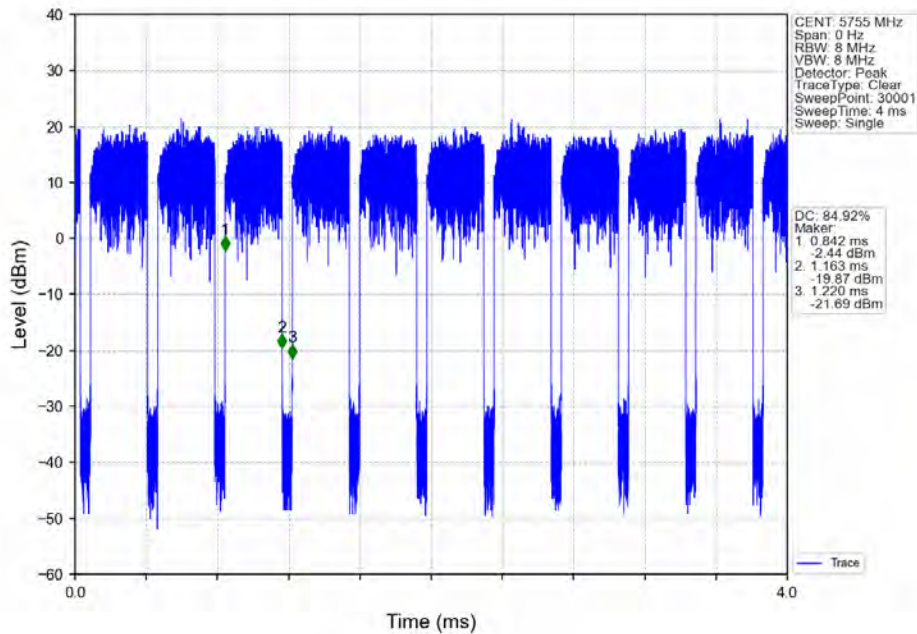
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802.11ax(HE40)\_LCH\_5755MHz\_RU484\_Left\_Ant2\_NTNV



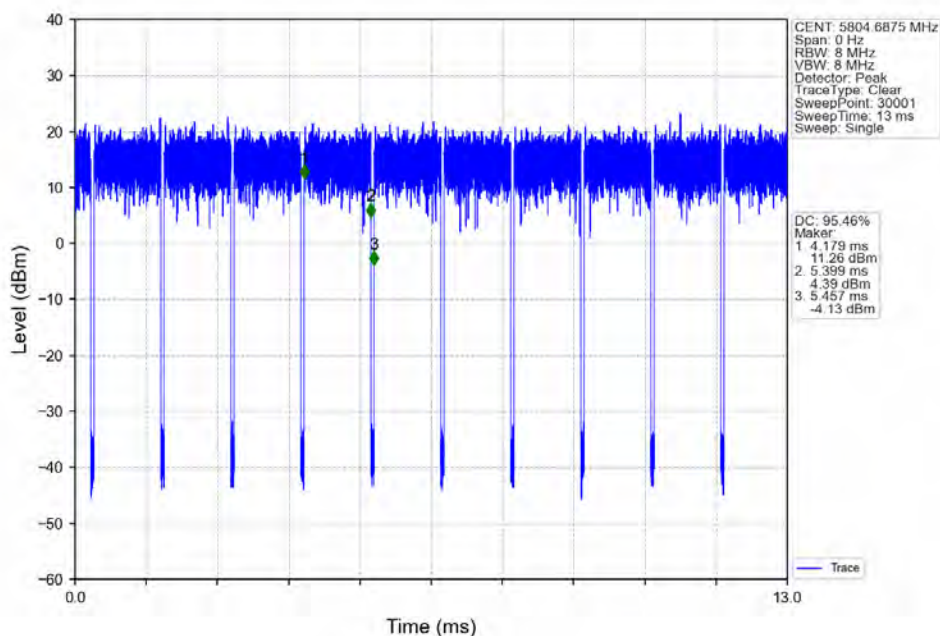
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802.11ax(HE40)\_HCH\_5795MHz\_RU242\_Right\_Ant2\_NTNV

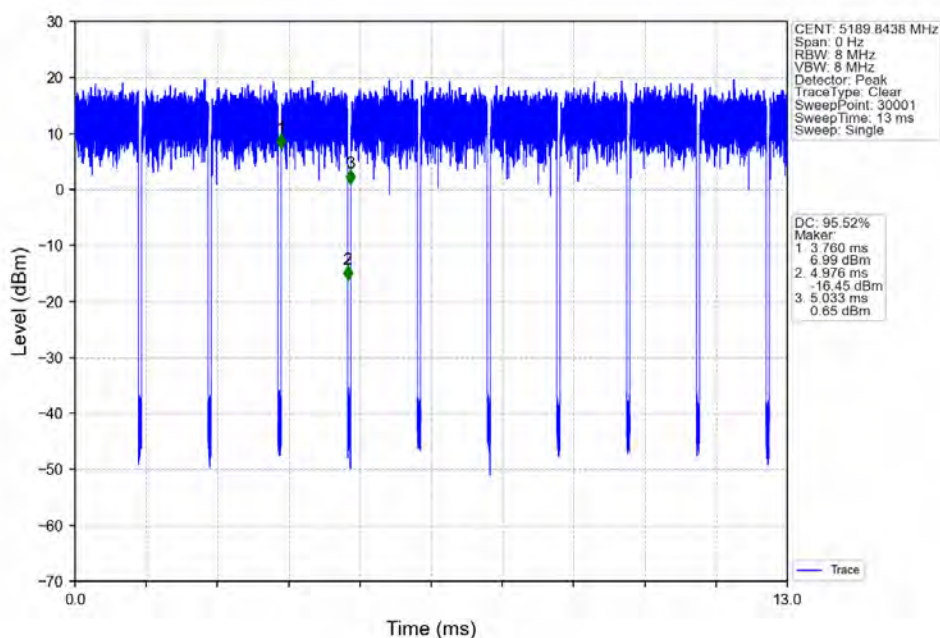


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### 802.11ax(HE80)\_MCH\_5210MHz\_RU484\_Left\_Ant2\_NTNV

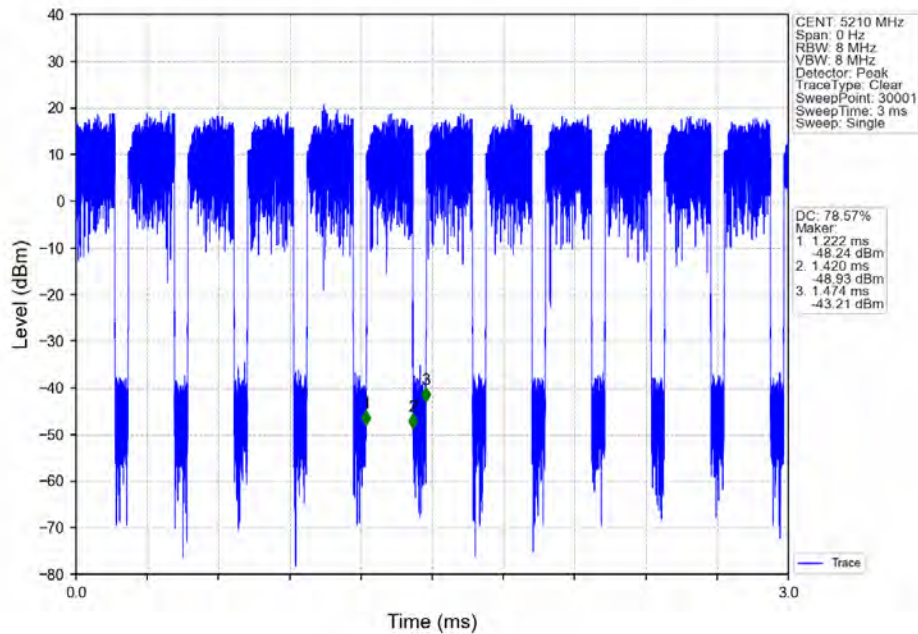


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802.11ax(HE80)\_MCH\_5210MHz\_RU996\_Left\_Ant2\_NTNV

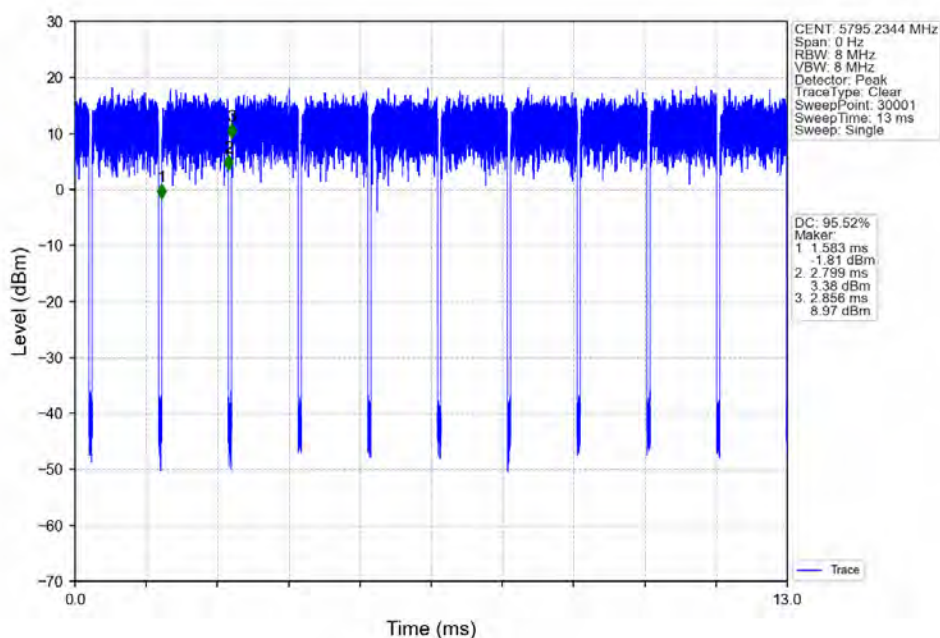


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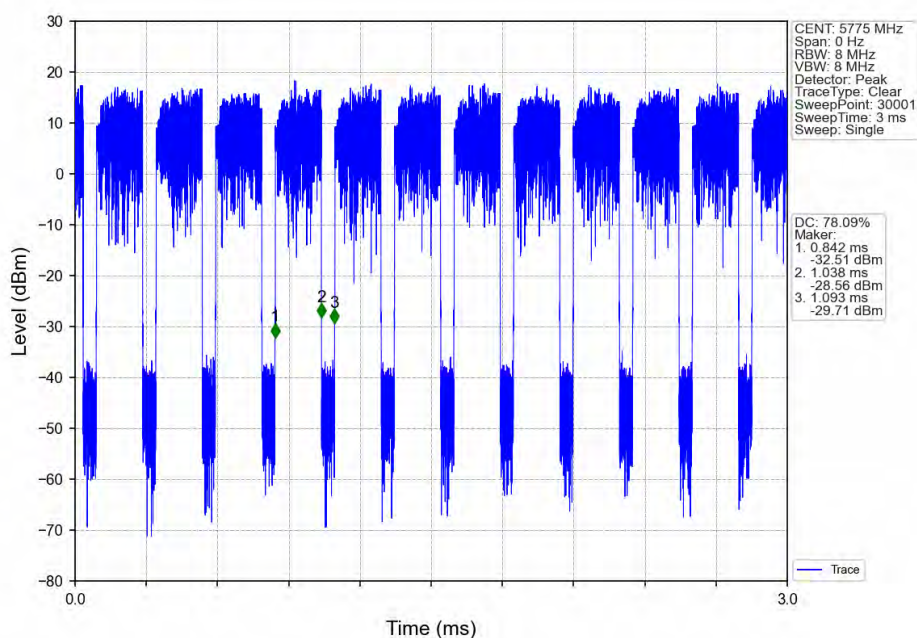


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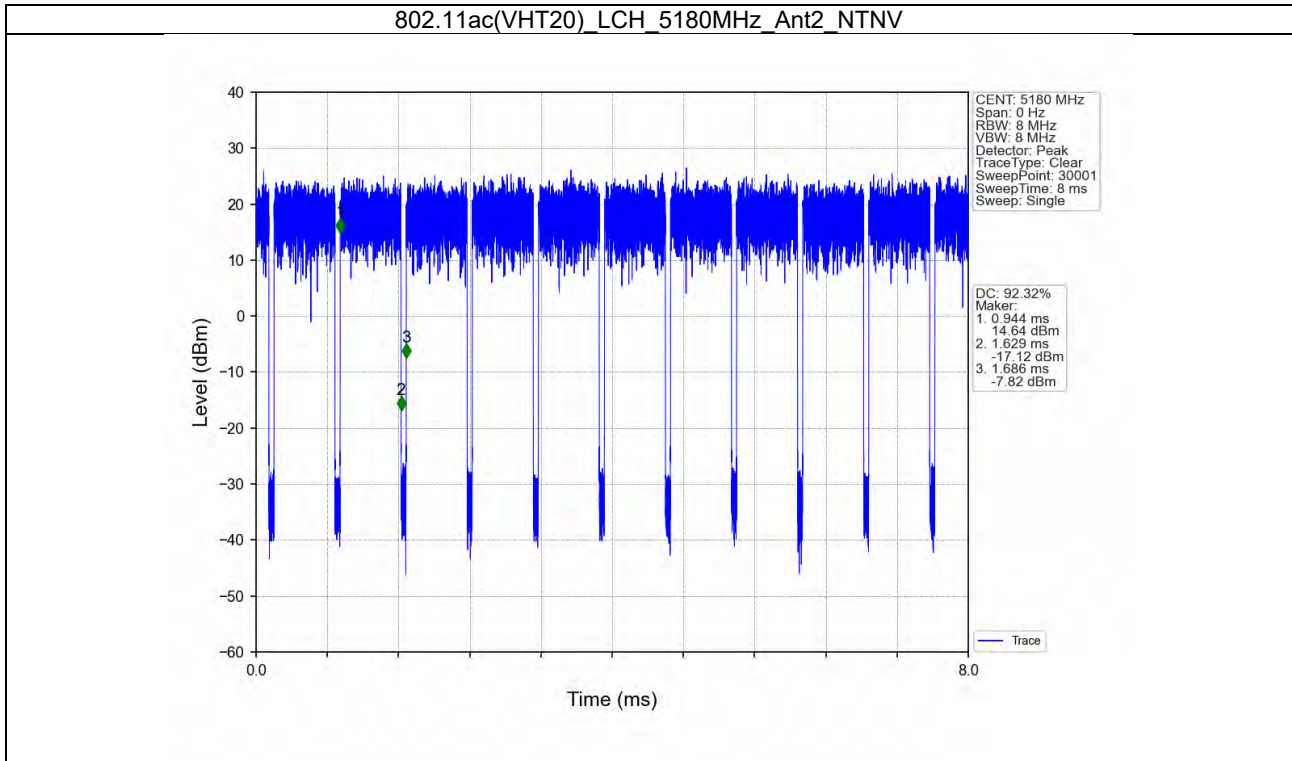


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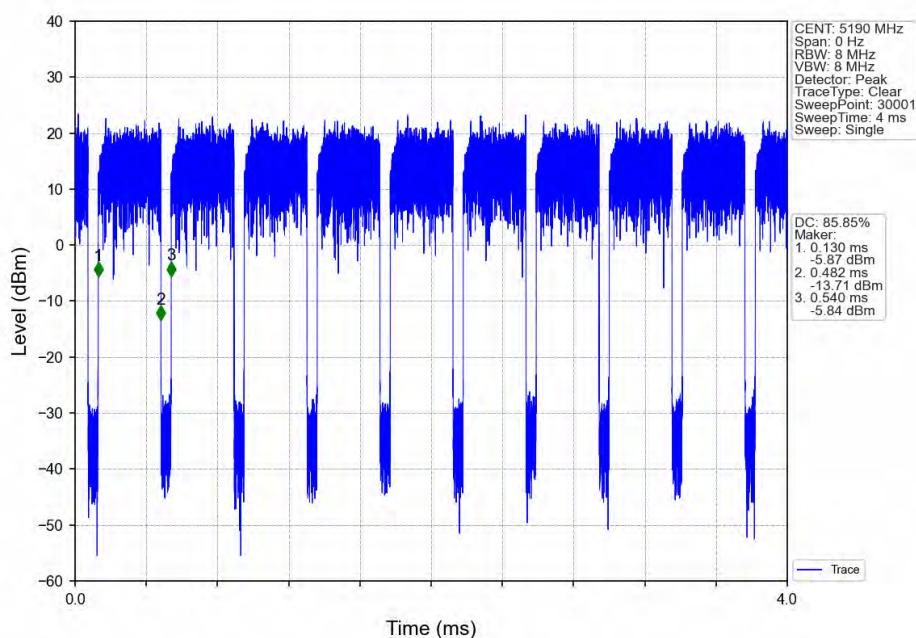
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### 802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV

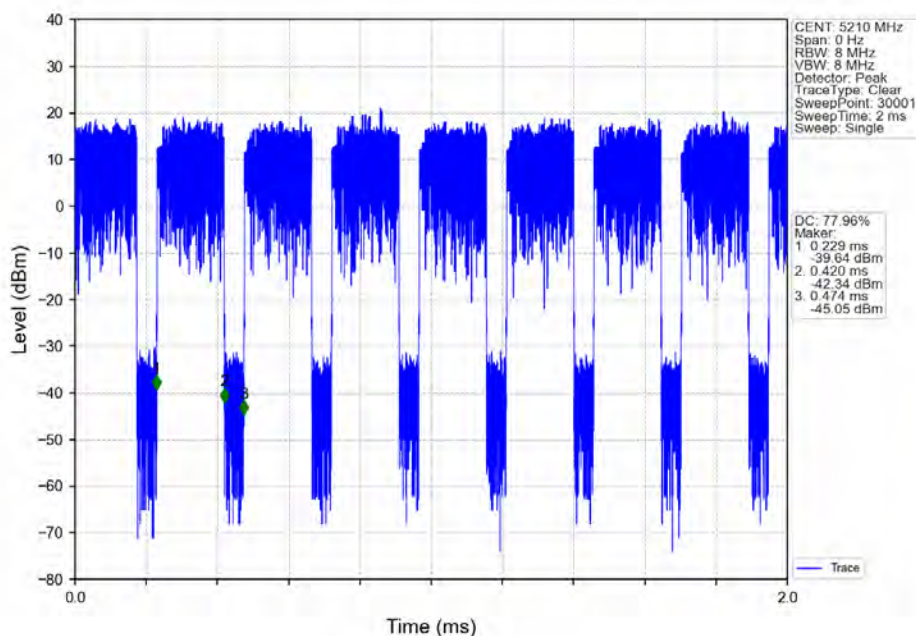


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### 802.11ac(VHT80)\_MCH\_5210MHz\_Ant2\_NTNV



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## Bandwidth

## Test Result

## OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	17.121	/	Pass
					2	17.230	/	Pass
		5200	/	/	1	17.349	/	Pass
					2	17.272	/	Pass
		5240	/	/	1	17.406	/	Pass
					2	17.471	/	Pass
		5745	/	/	1	17.511	/	Pass
					2	17.221	/	Pass
		5785	/	/	1	17.328	/	Pass
					2	17.367	/	Pass
		5825	/	/	1	17.292	/	Pass
					2	17.247	/	Pass
802.11ax (HE20)	MIMO	5180	RU242	Left	1	19.463	/	Pass
					2	19.336	/	Pass
		5200	RU242	Left	1	19.337	/	Pass
					2	19.326	/	Pass
		5240	RU242	Left	1	18.841	/	Pass
					2	18.883	/	Pass
		5745	RU242	Left	1	19.412	/	Pass
					2	19.323	/	Pass
		5785	RU242	Left	1	19.392	/	Pass
					2	19.319	/	Pass
		5825	RU242	Left	1	19.403	/	Pass
					2	19.418	/	Pass
802.11ax (HE40)	MIMO	5190	RU484	Left	1	37.737	/	Pass
					2	37.902	/	Pass
		5230	RU484	Left	1	37.626	/	Pass
					2	37.690	/	Pass
		5755	RU484	Left	1	37.744	/	Pass
					2	37.810	/	Pass
		5795	RU484	Left	1	37.695	/	Pass
					2	37.661	/	Pass
802.11ax (HE80)	MIMO	5210	RU996	Left	1	76.927	/	Pass
					2	76.959	/	Pass
		5775	RU996	Left	1	77.086	/	Pass
					2	77.031	/	Pass

Remark: For 802.11ac VHT20/ax HE20, 802.11ac VHT40/ax HE40 and 802.11ac VHT80/ax HE80 mode, the whole testing have assessed only, 802.11 ax HE20/40/80 by referring to their higher output power.

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## 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	15.122	$\geq 0.5$	Pass
					2	15.130	$\geq 0.5$	Pass
		5785	/	/	1	15.107	$\geq 0.5$	Pass
					2	15.114	$\geq 0.5$	Pass
		5825	/	/	1	15.125	$\geq 0.5$	Pass
					2	15.133	$\geq 0.5$	Pass
802.11ax (HE20)	MIMO	5745	RU242	Left	1	17.483	$\geq 0.5$	Pass
					2	15.295	$\geq 0.5$	Pass
		5785	RU242	Left	1	17.421	$\geq 0.5$	Pass
					2	15.537	$\geq 0.5$	Pass
		5825	RU242	Left	1	17.299	$\geq 0.5$	Pass
					2	17.347	$\geq 0.5$	Pass
802.11ax (HE40)	MIMO	5755	RU484	Left	1	36.956	$\geq 0.5$	Pass
					2	36.563	$\geq 0.5$	Pass
		5795	RU484	Left	1	37.348	$\geq 0.5$	Pass
					2	35.855	$\geq 0.5$	Pass
		5775	RU996	Left	1	75.126	$\geq 0.5$	Pass
					2	75.065	$\geq 0.5$	Pass

Remark: For 802.11ac VHT20/ax HE20, 802.11ac VHT40/ax HE40 and 802.11ac VHT80/ax HE80 mode, the whole testing have assessed only, 802.11 ax HE20/40/80 by referring to their higher output power.

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## 26dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	19.450	/	Pass
					2	19.660	/	Pass
		5200	/	/	1	19.908	/	Pass
					2	19.873	/	Pass
		5240	/	/	1	20.113	/	Pass
					2	20.048	/	Pass
802.11ax (HE20)	MIMO	5180	RU242	Left	1	22.179	/	Pass
					2	22.146	/	Pass
		5200	RU242	Left	1	22.996	/	Pass
					2	23.140	/	Pass
		5240	RU242	Left	1	19.944	/	Pass
					2	19.878	/	Pass
802.11ax (HE40)	MIMO	5190	RU484	Left	1	39.582	/	Pass
					2	39.584	/	Pass
		5230	RU484	Left	1	39.541	/	Pass
					2	39.561	/	Pass
802.11ax (HE80)	MIMO	5210	RU996	Left	1	80.151	/	Pass
					2	80.273	/	Pass

Remark: For 802.11ac VHT20/ax HE20, 802.11ac VHT40/ax HE40 and 802.11ac VHT80/ax HE80 mode, the whole testing have assessed only, 802.11 ax HE20/40/80 by referring to their higher output power.

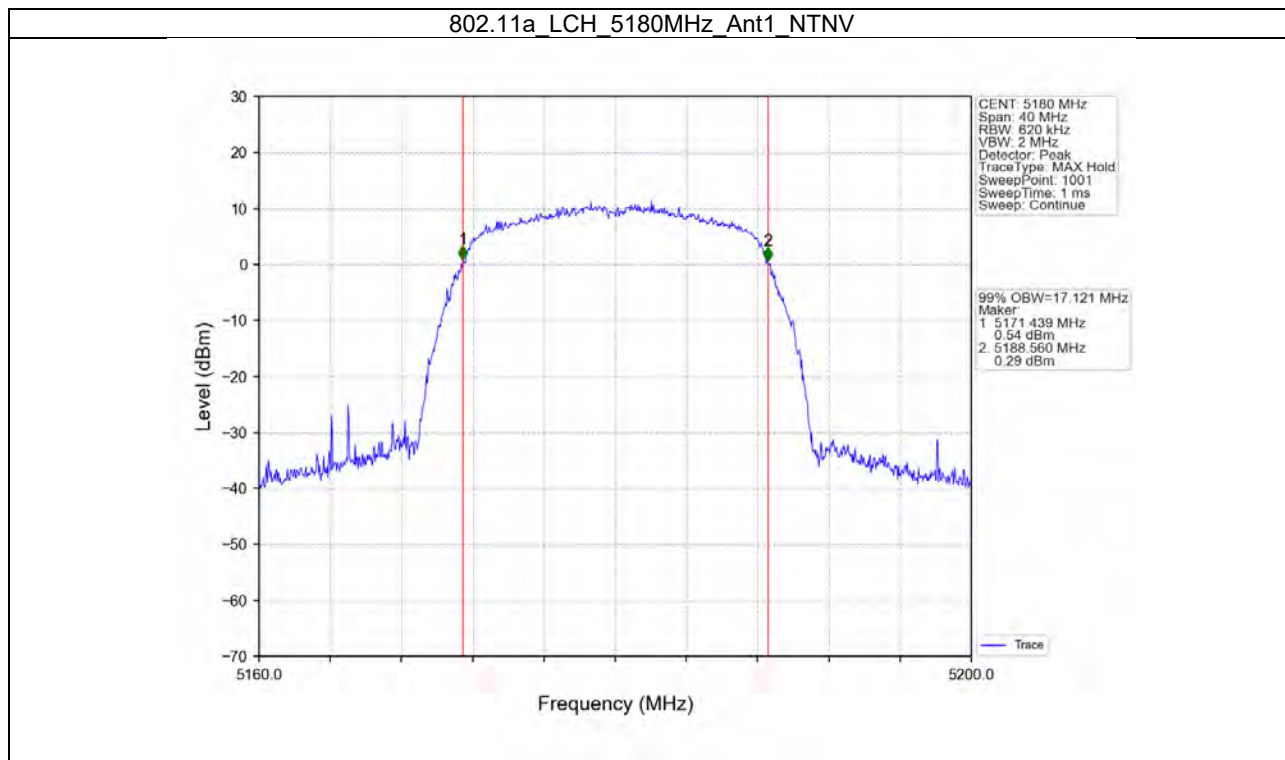
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### Test Graph

#### OBW



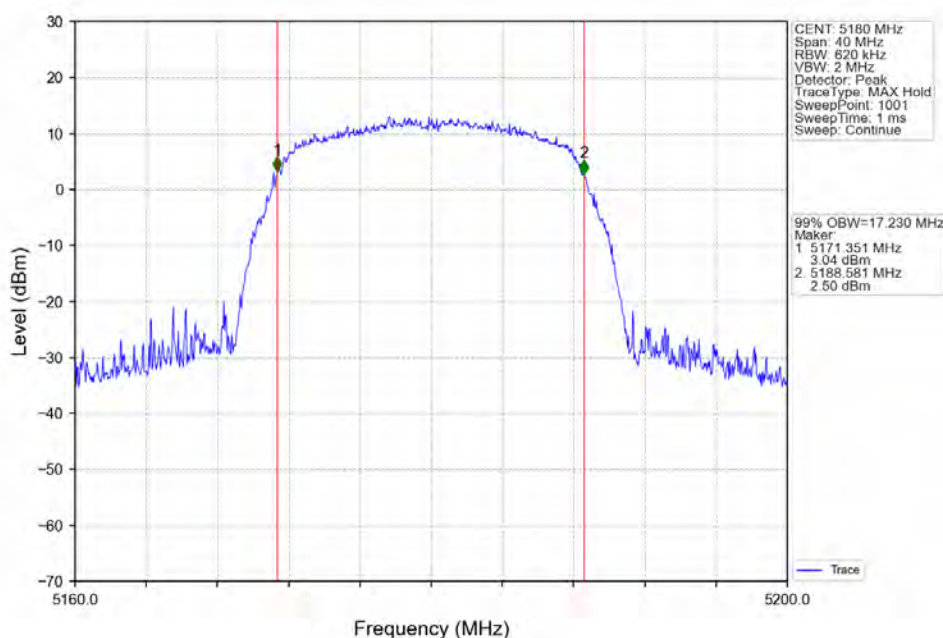
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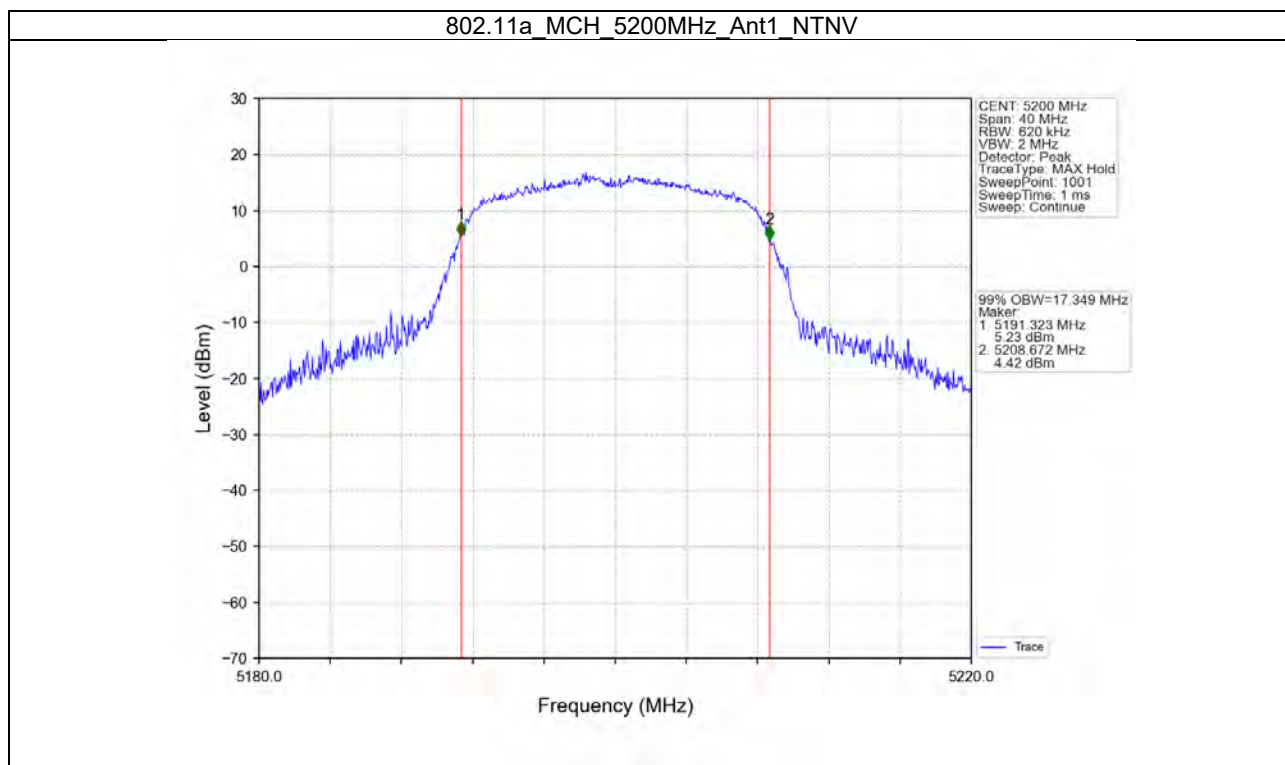
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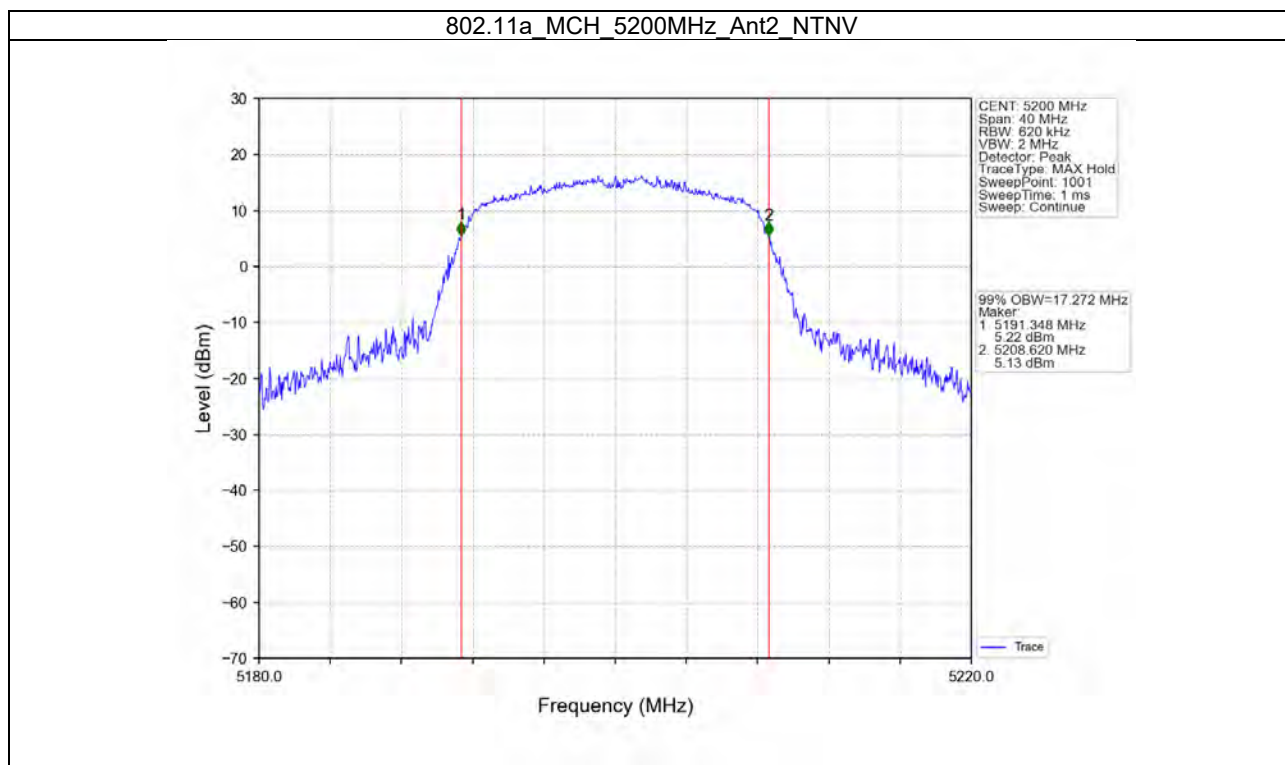
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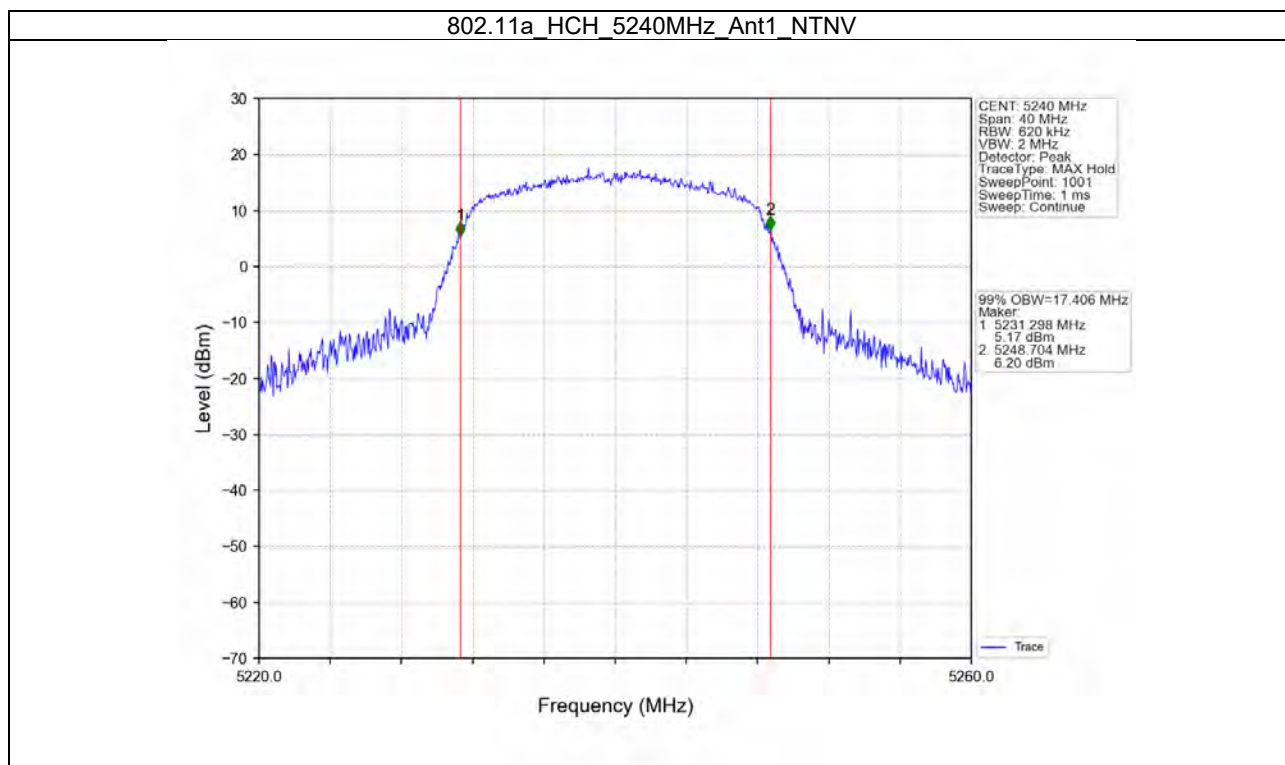
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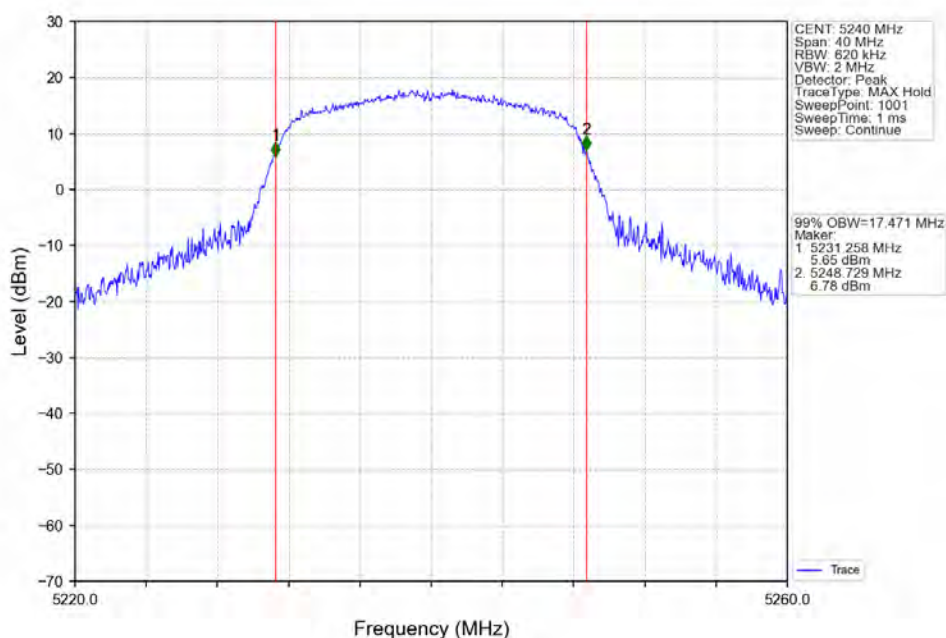


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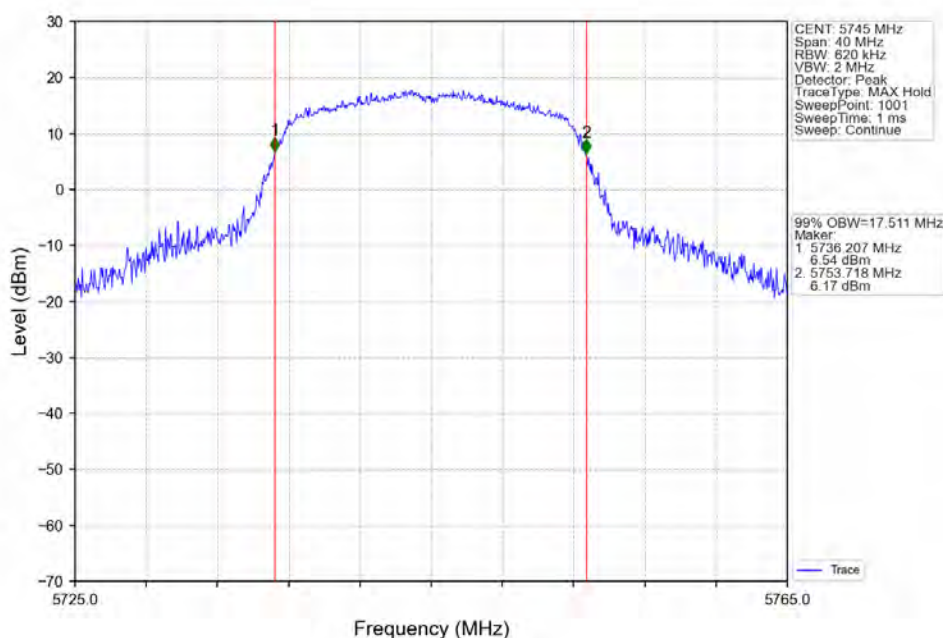


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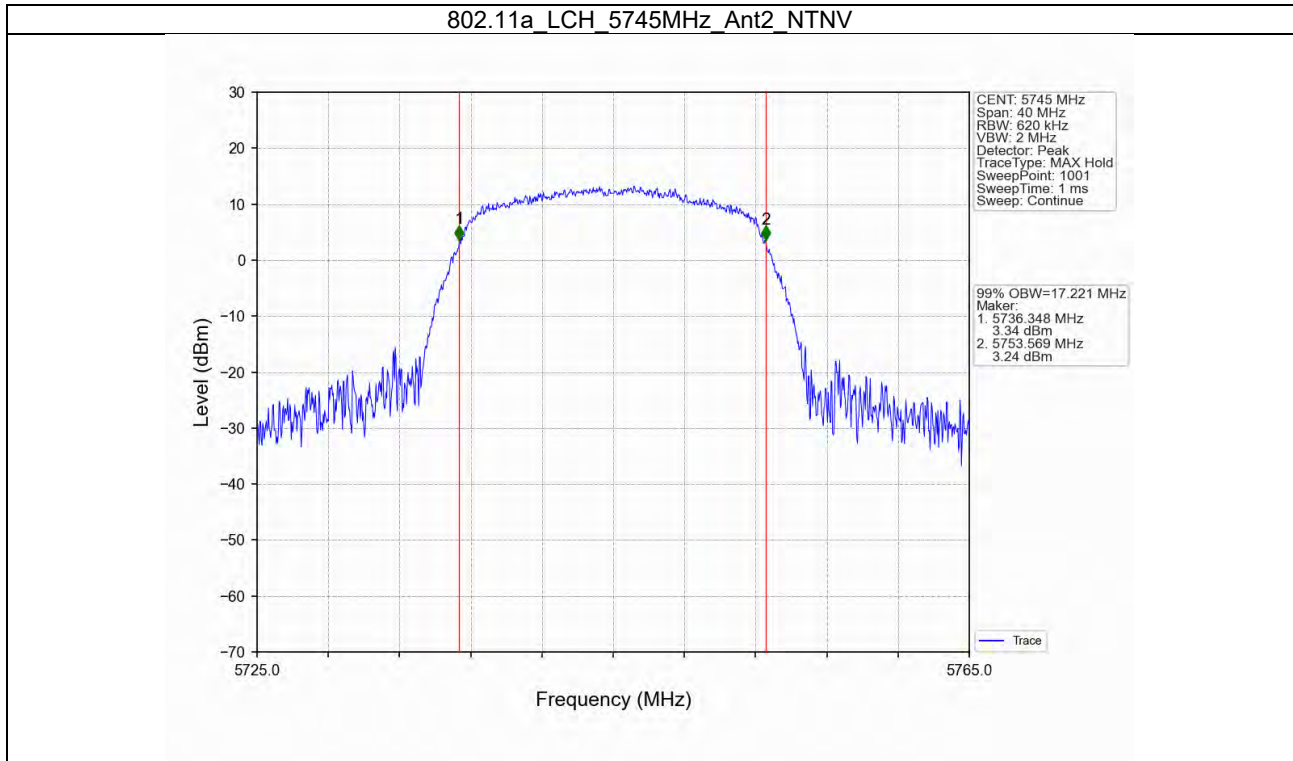


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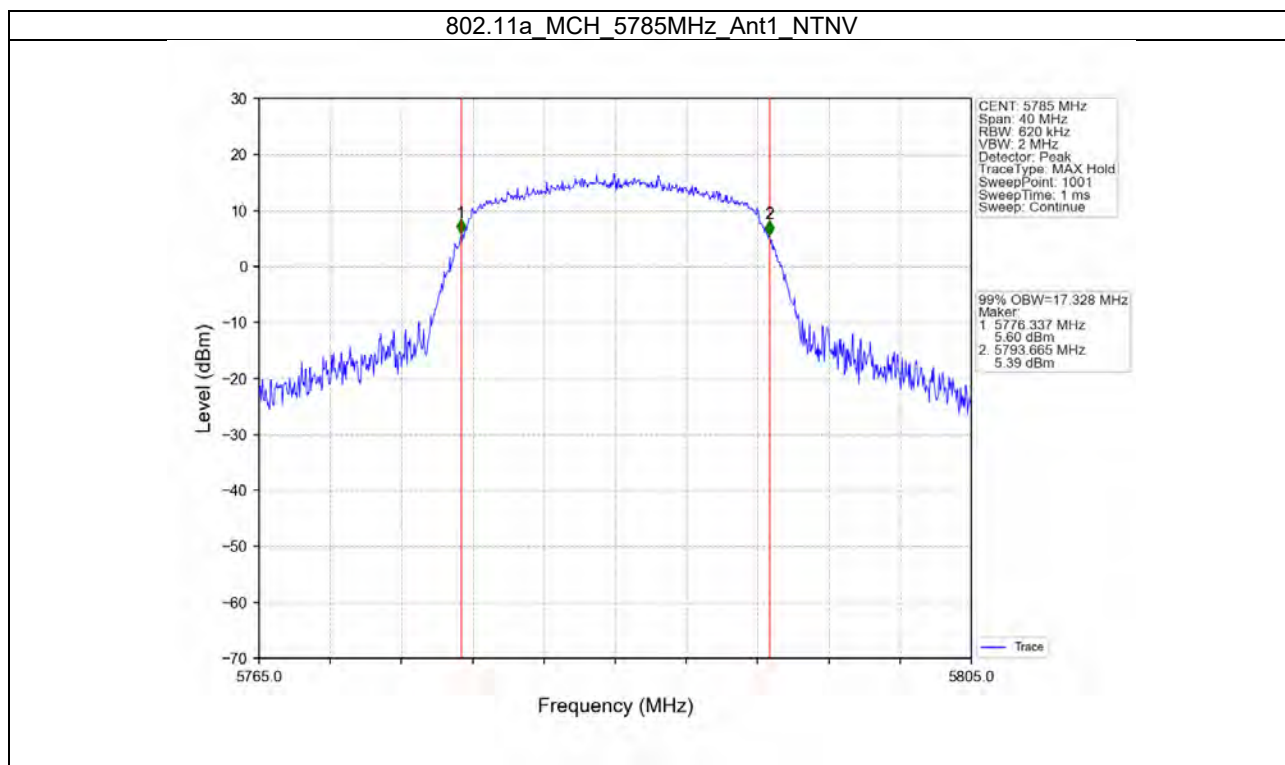




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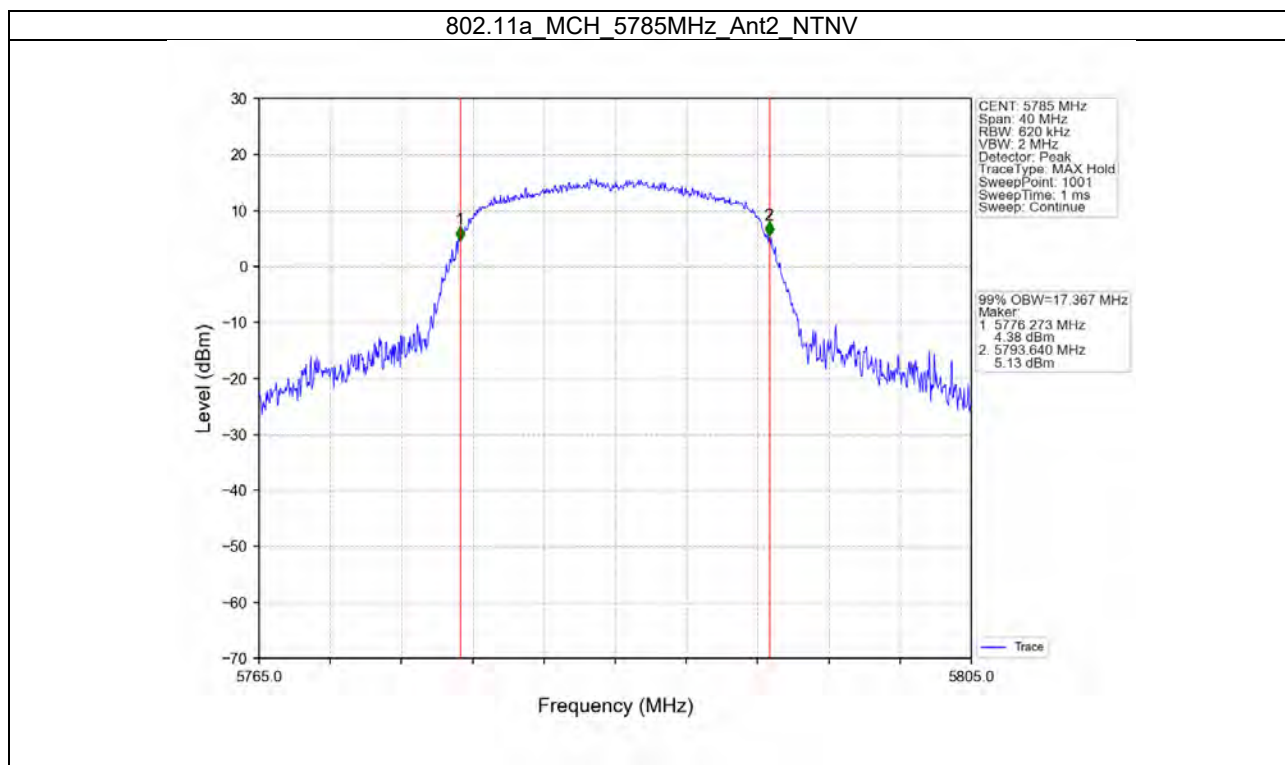
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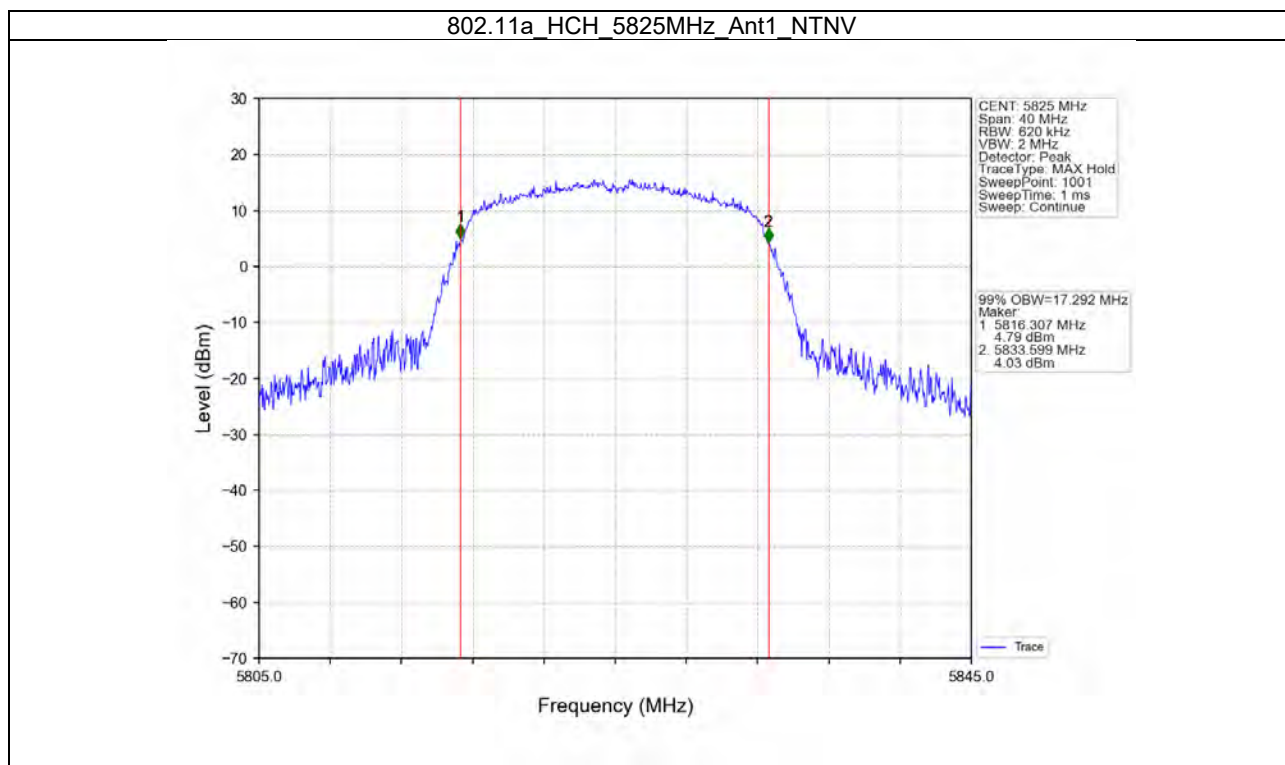
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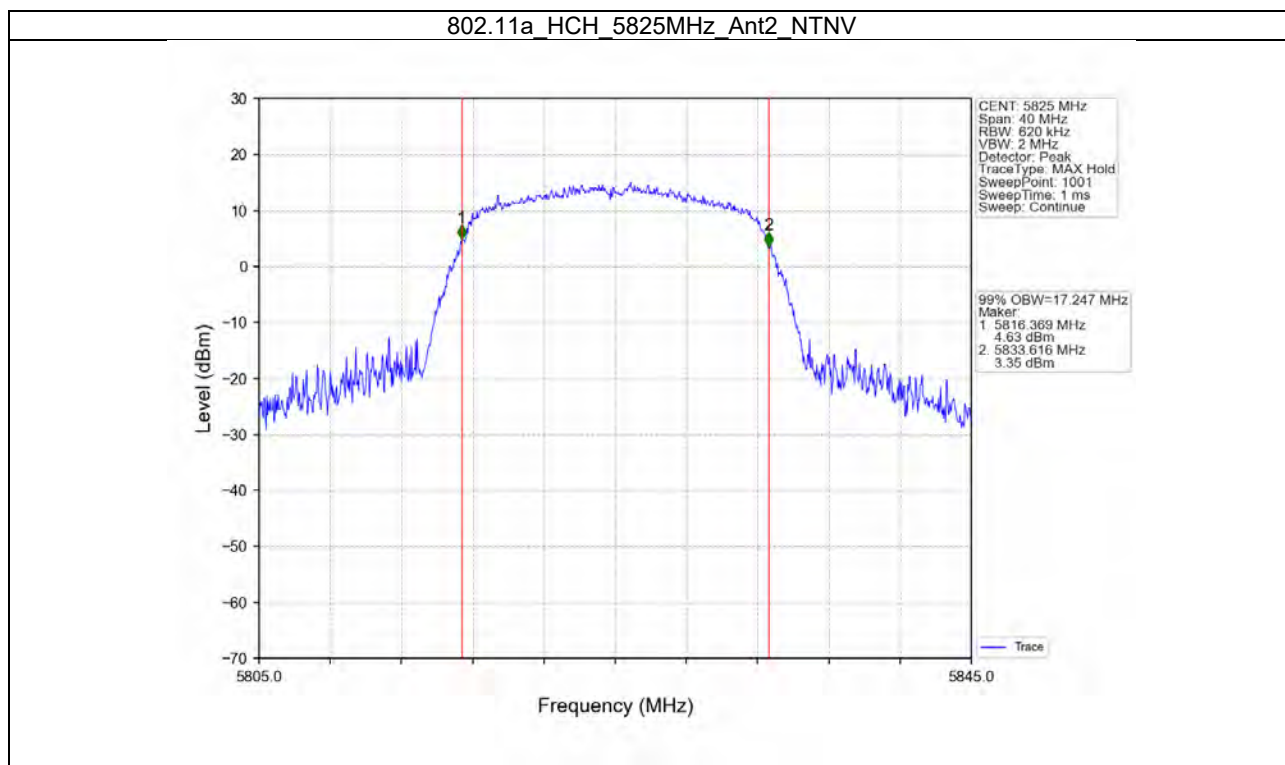
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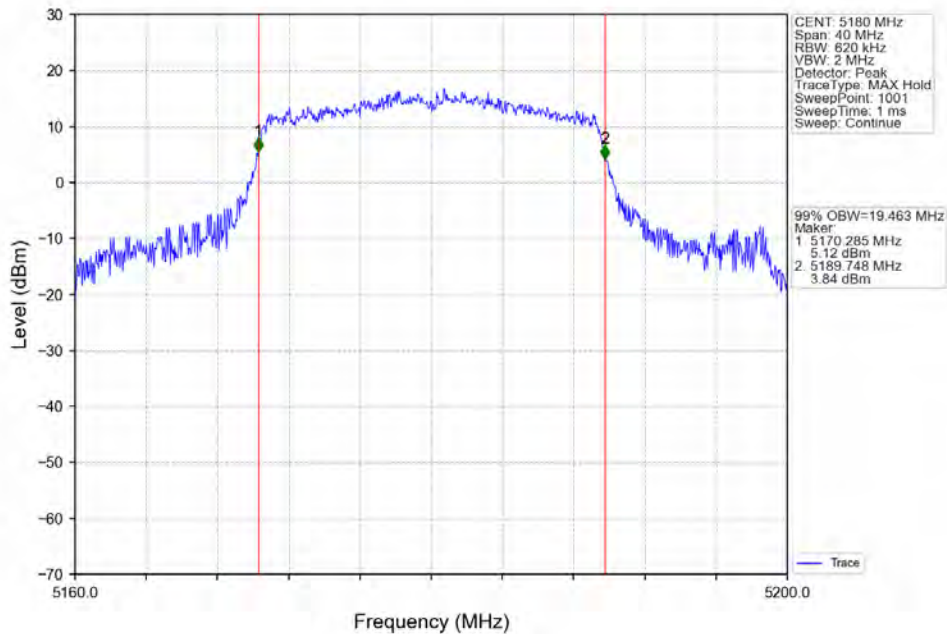


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802.11ax(HE20)\_LCH\_5180MHz\_RU242\_Left\_Ant1\_NTNV



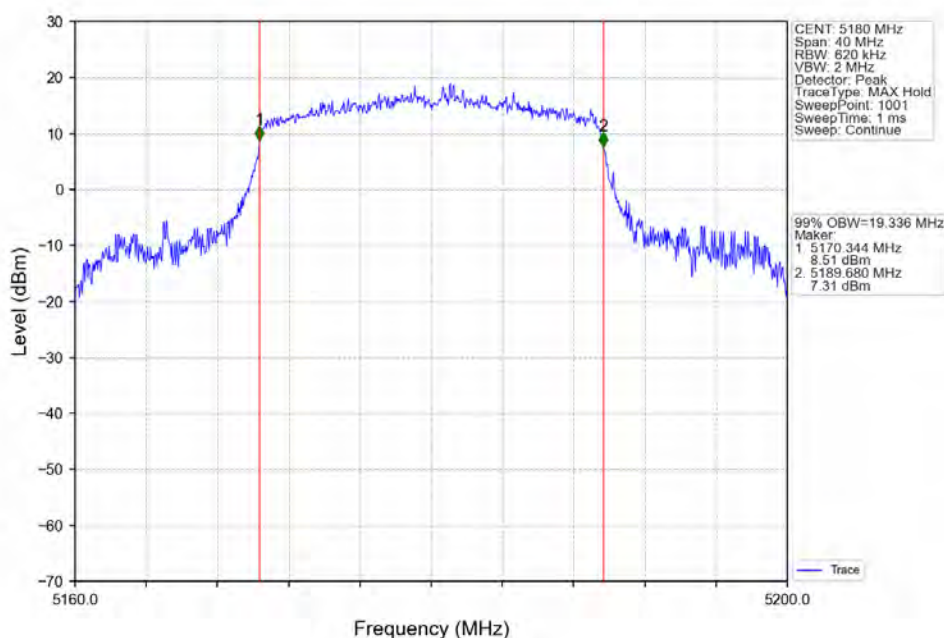
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802.11ax(HE20)\_LCH\_5180MHz\_RU242\_Left\_Ant2\_NTNV

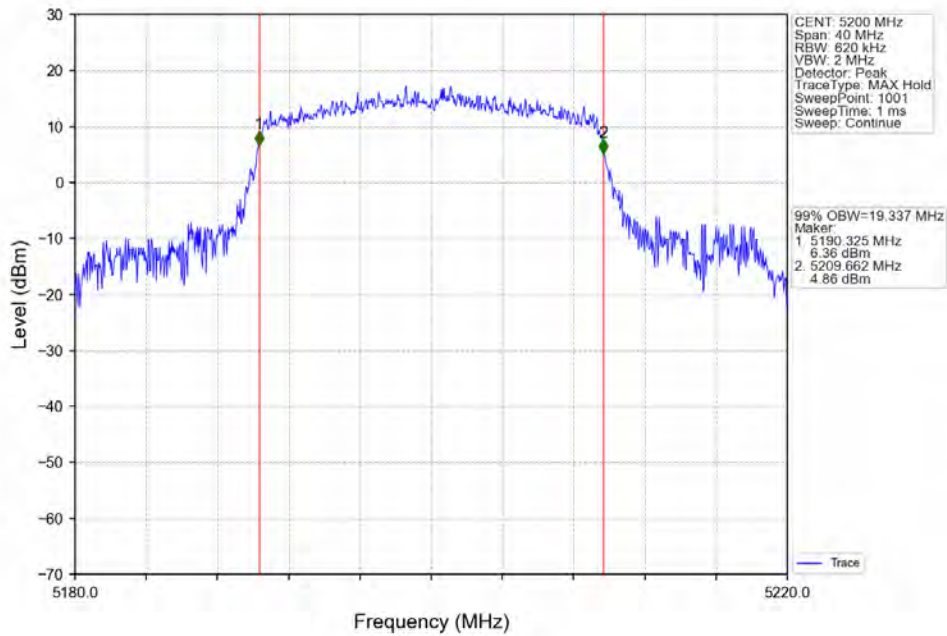


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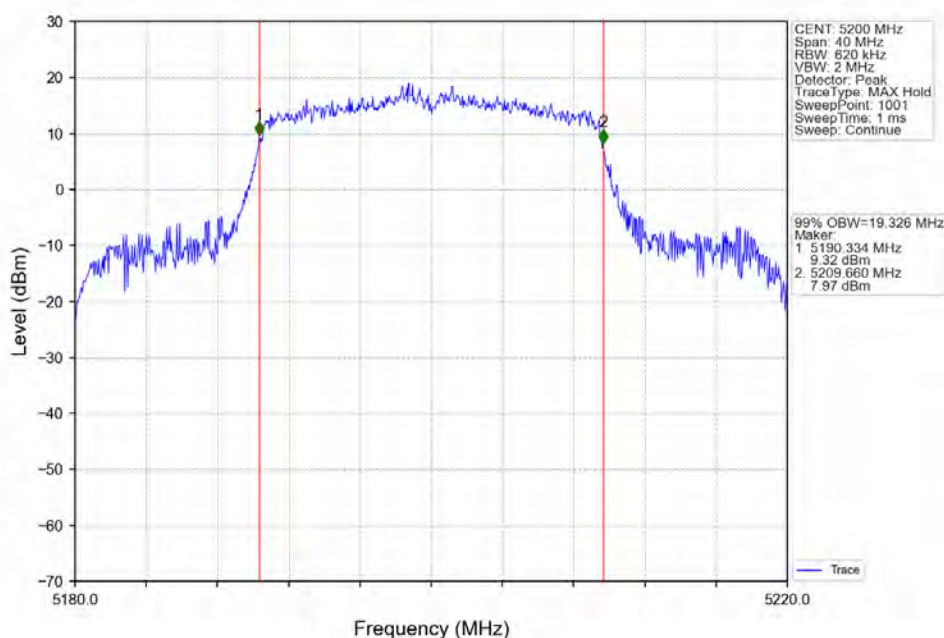


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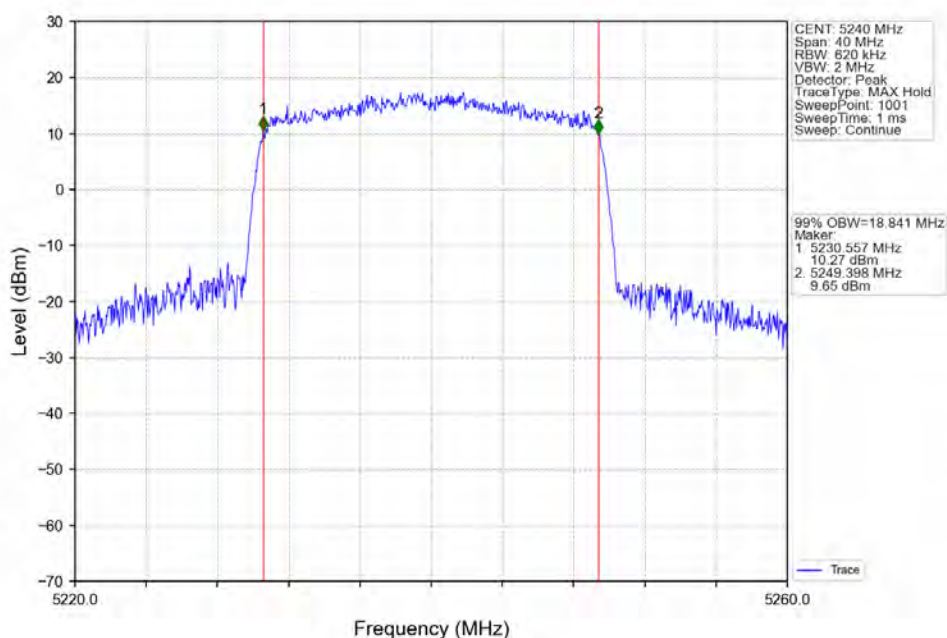


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802.11ax(HE20)\_HCH\_5240MHz\_RU242\_Left\_Ant1\_NTNV

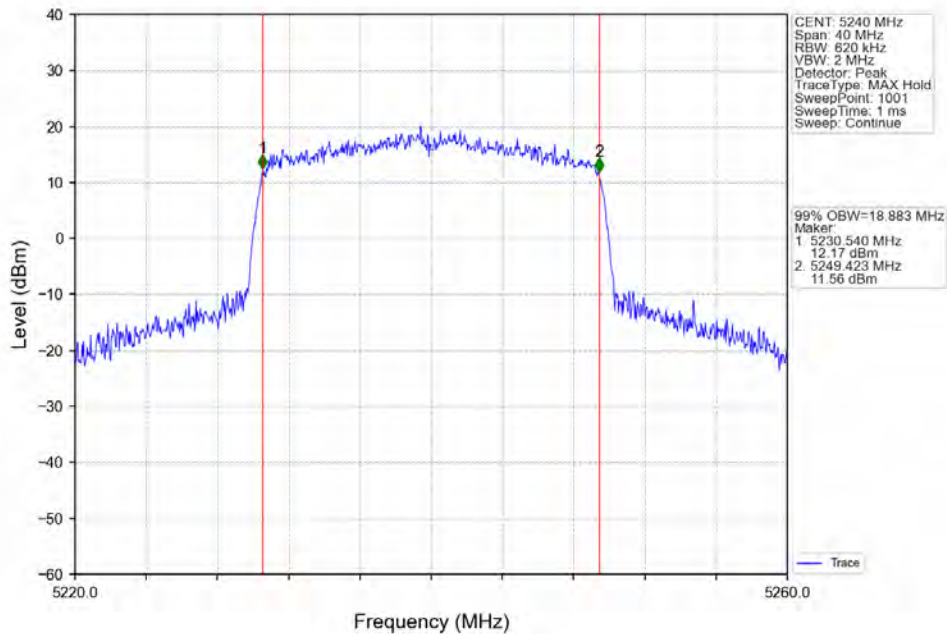


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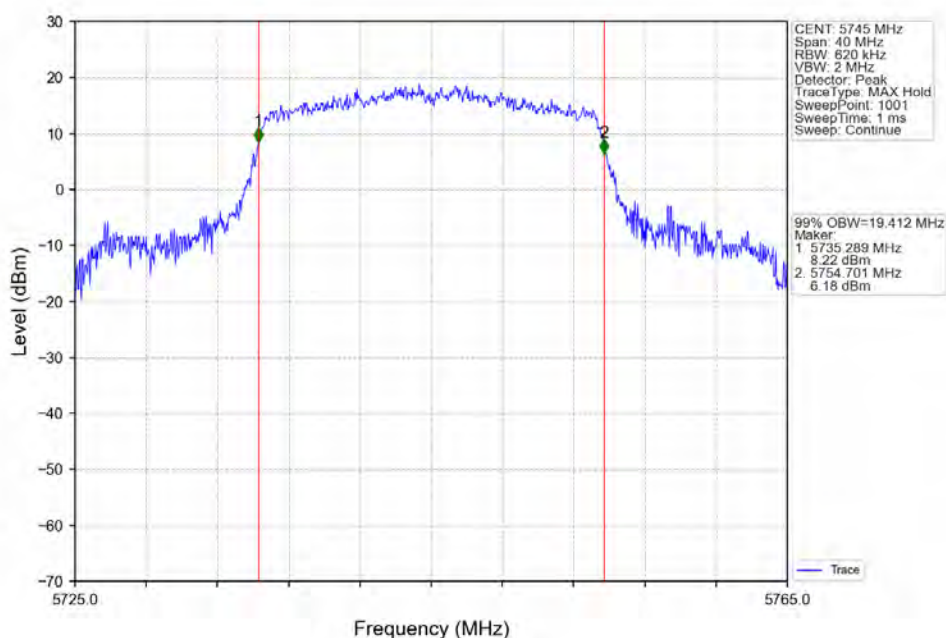


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802.11ax(HE20)\_LCH\_5745MHz\_RU242\_Left\_Ant1\_NTNV



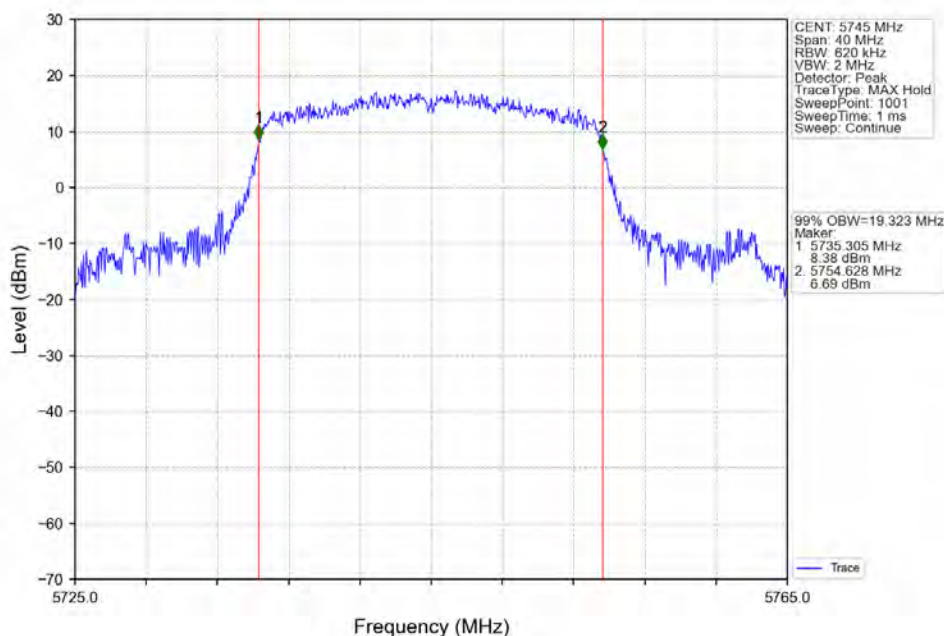
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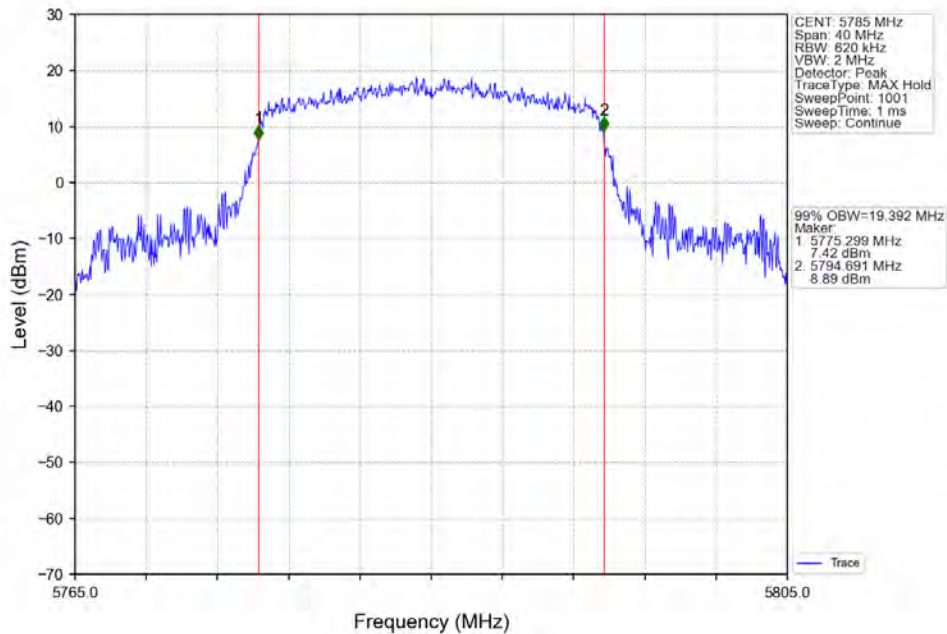


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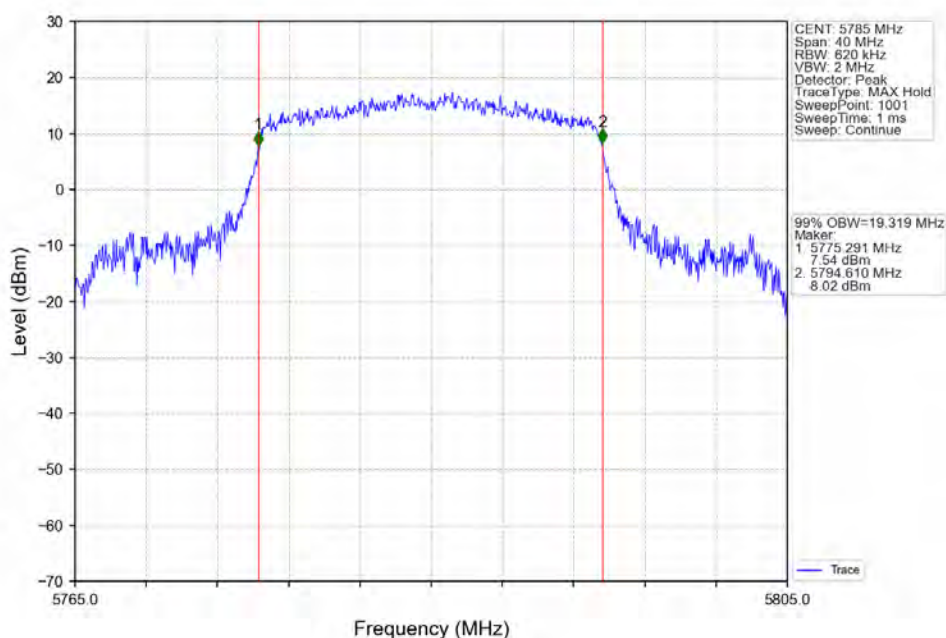


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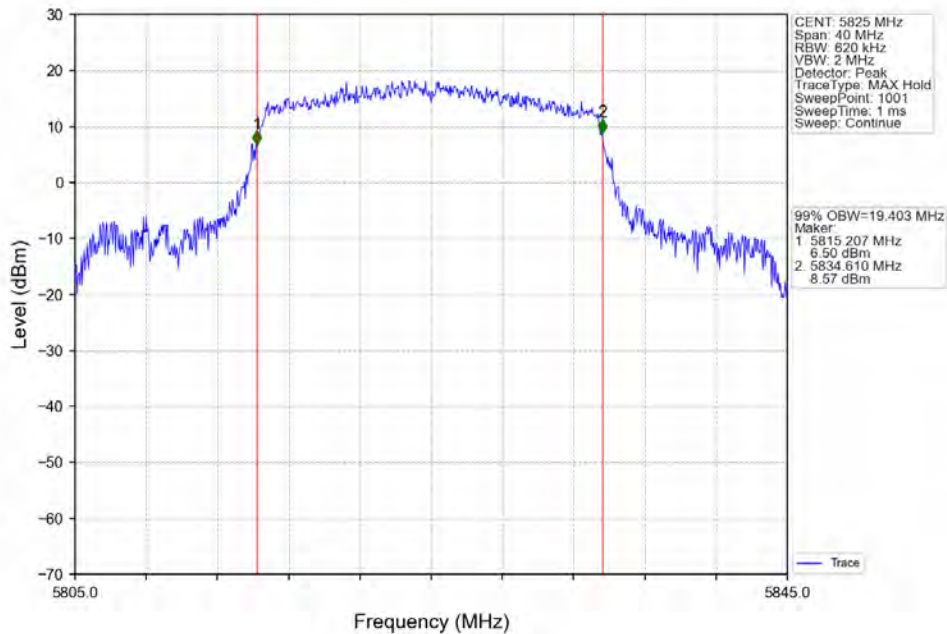


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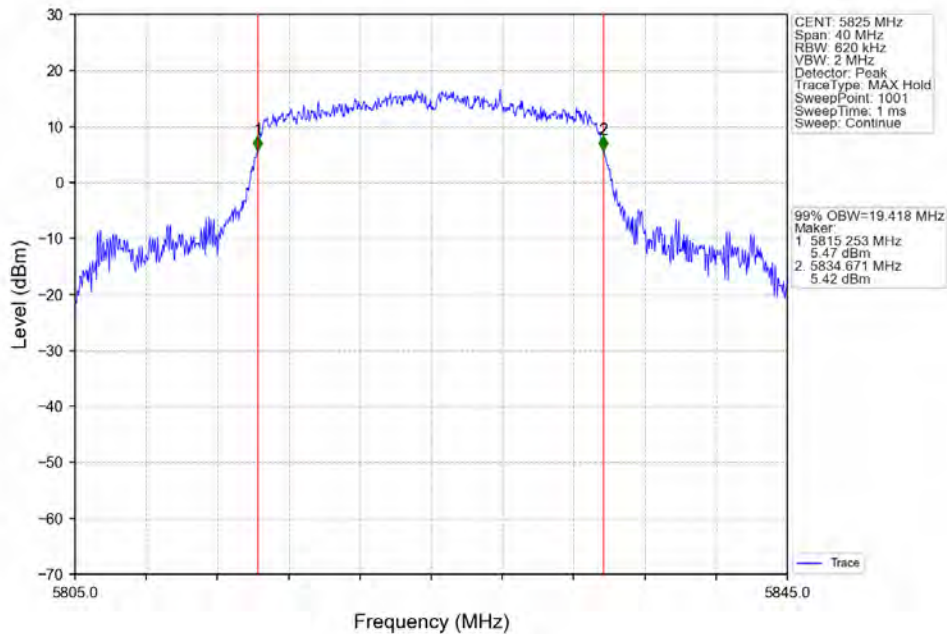


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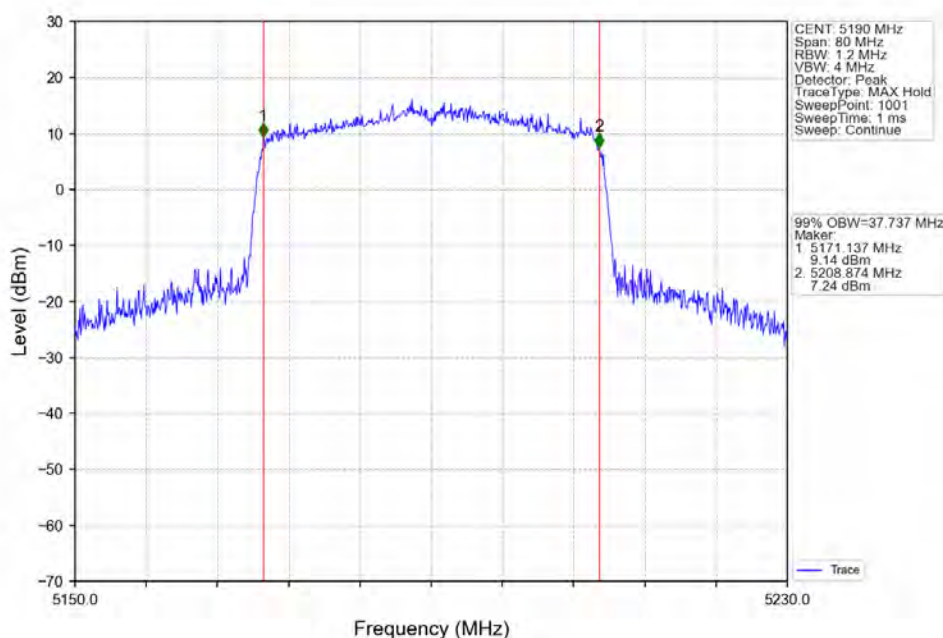


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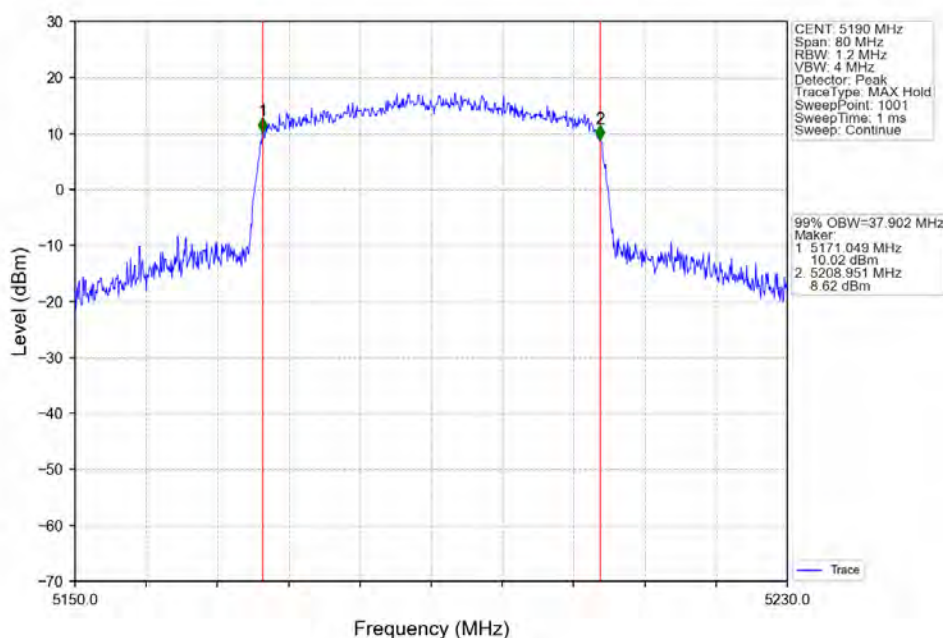
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802.11ax(HE40)\_LCH\_5190MHz\_RU484\_Left\_Ant2\_NTNV

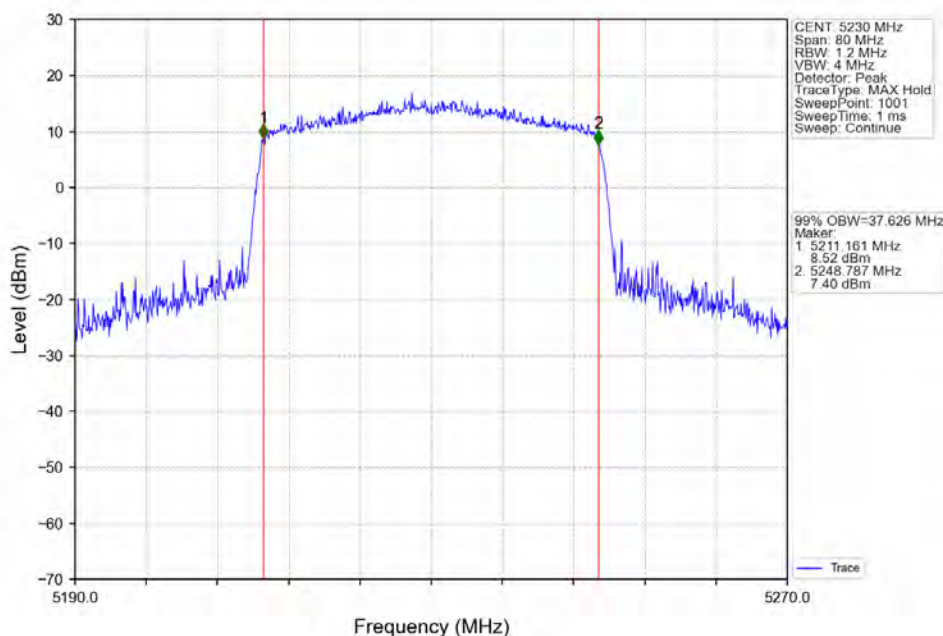


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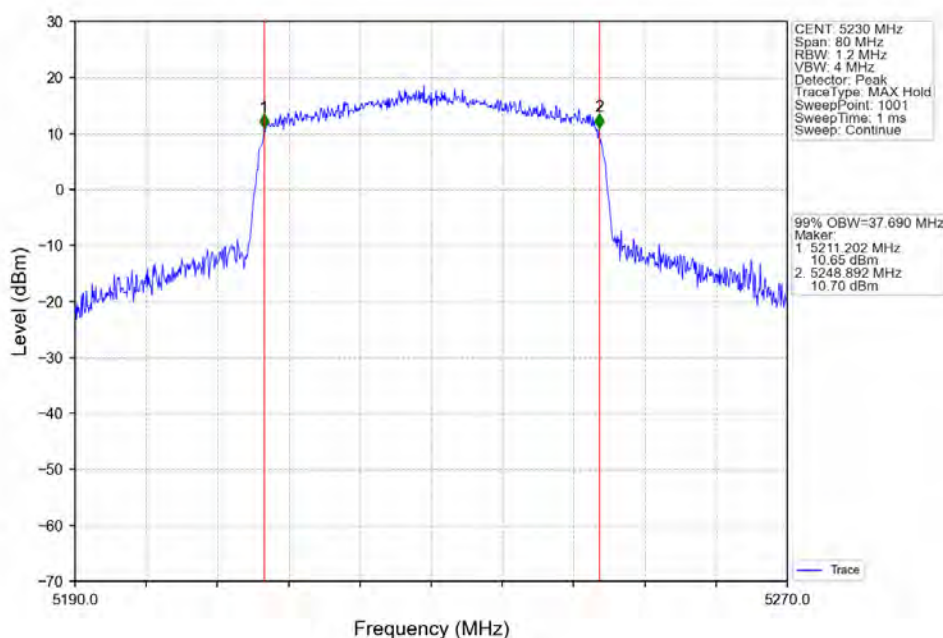


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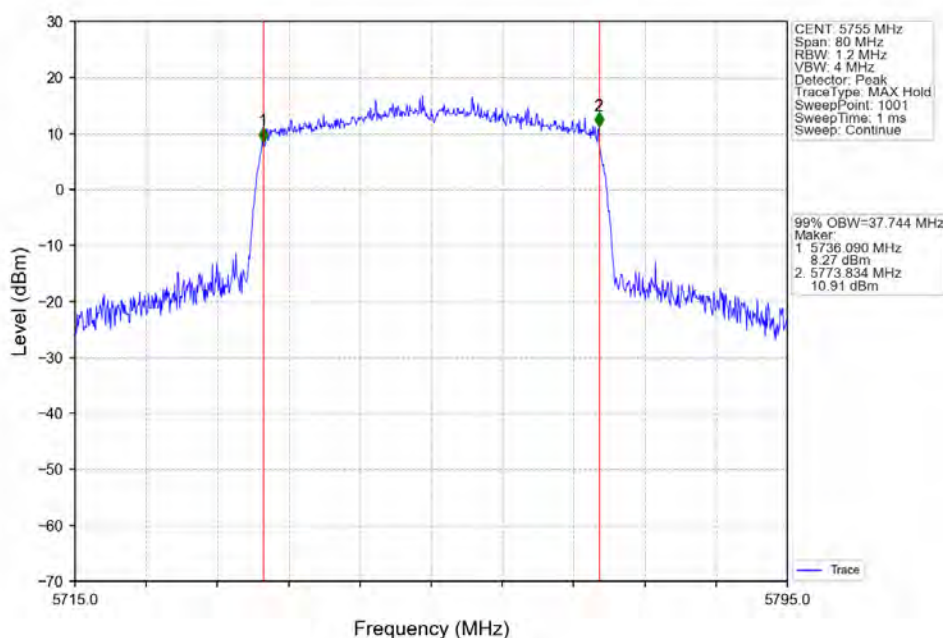


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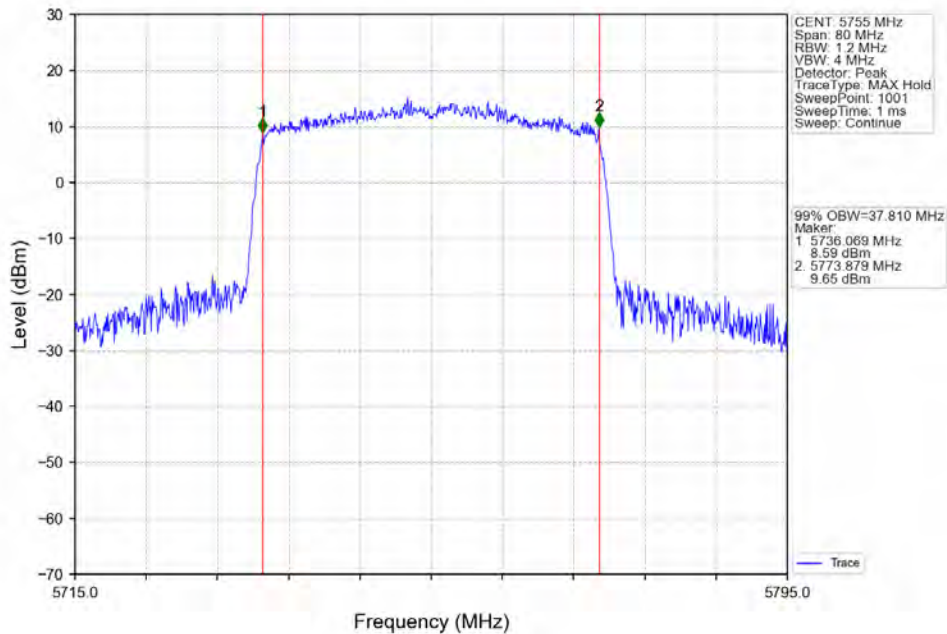


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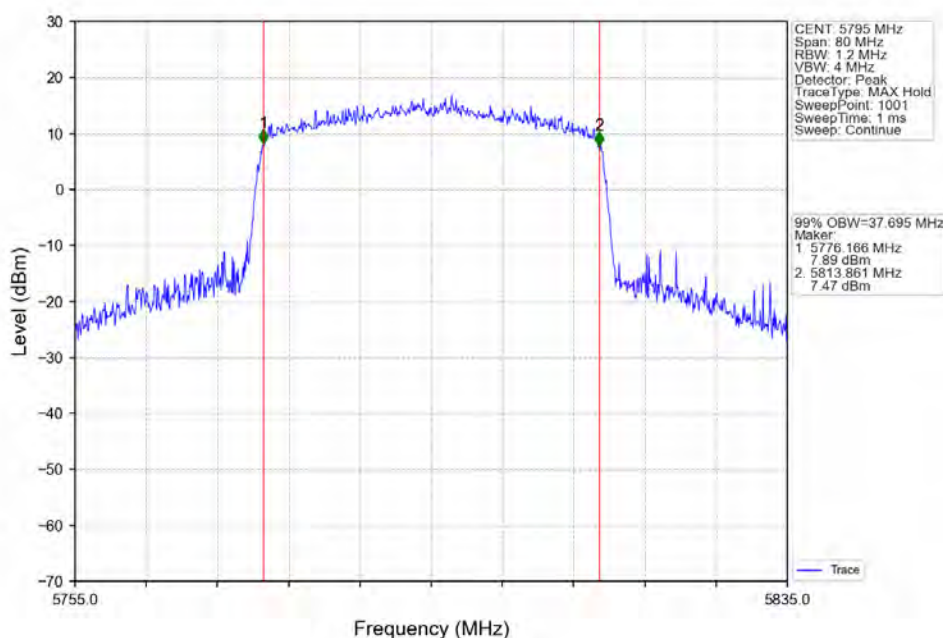


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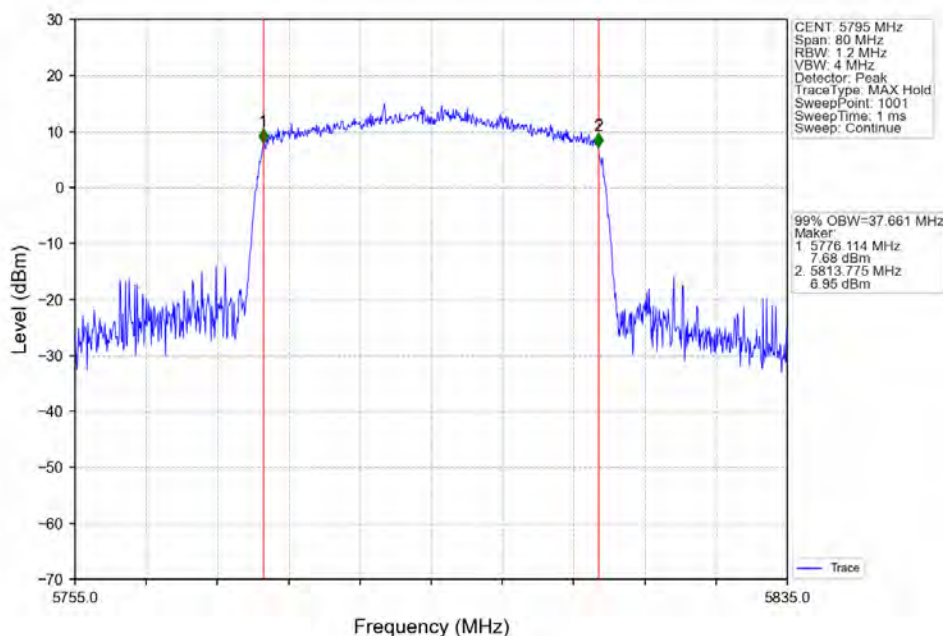
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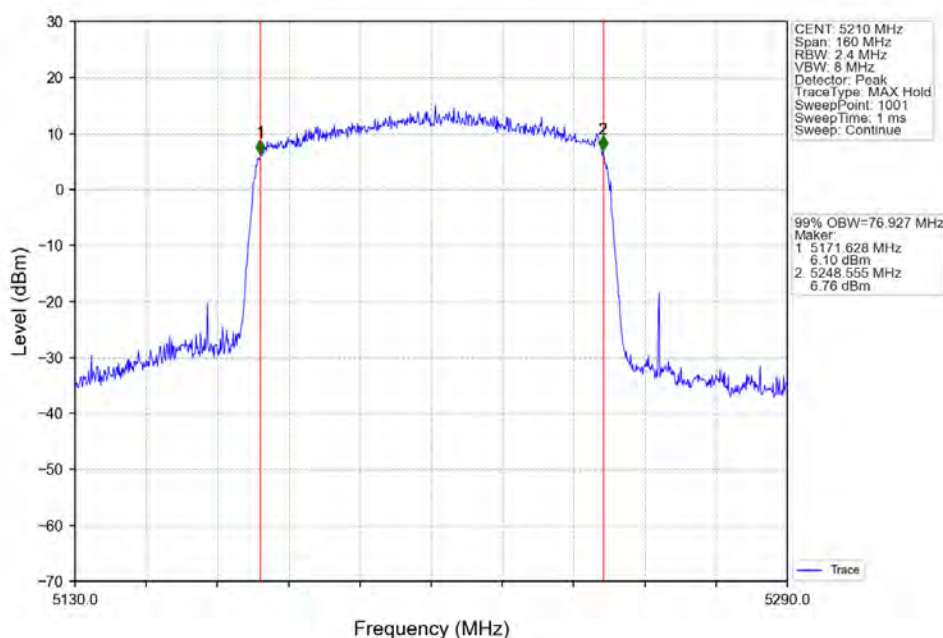


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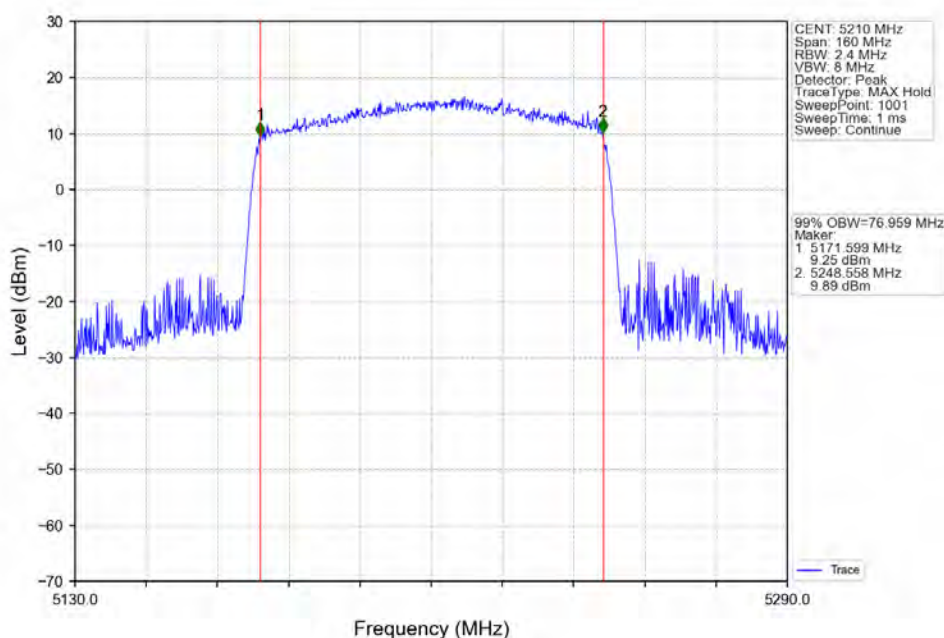


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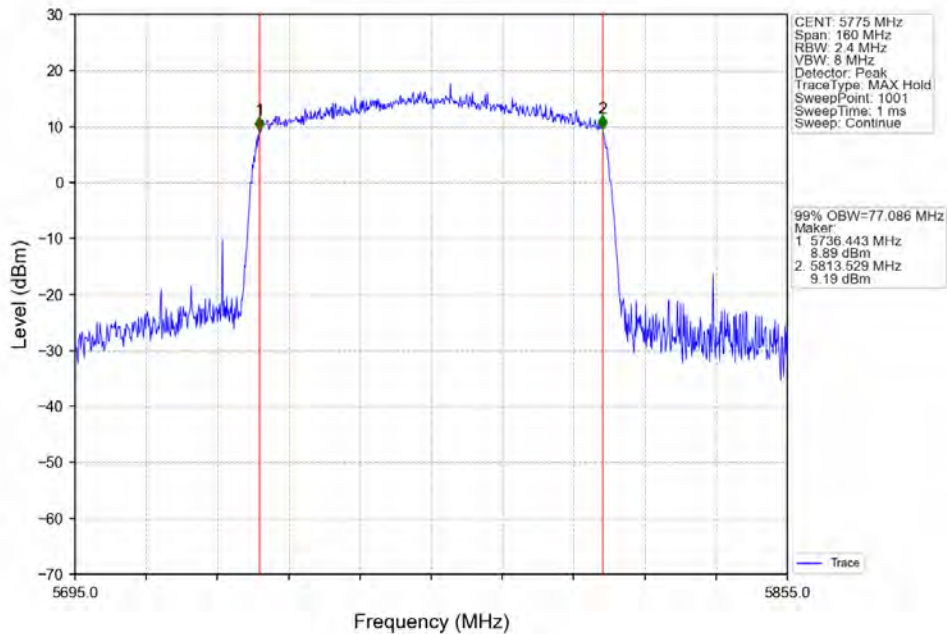


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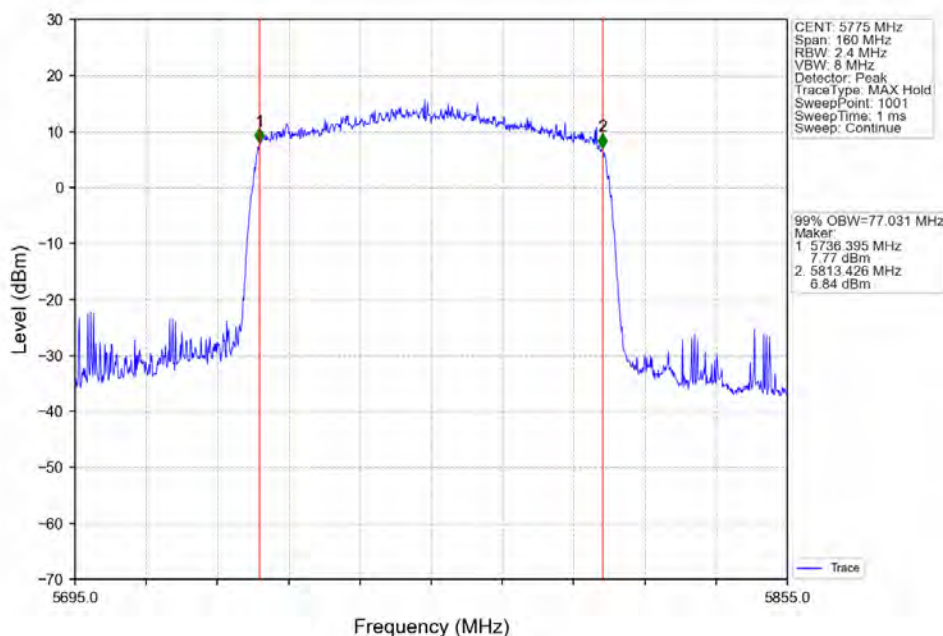


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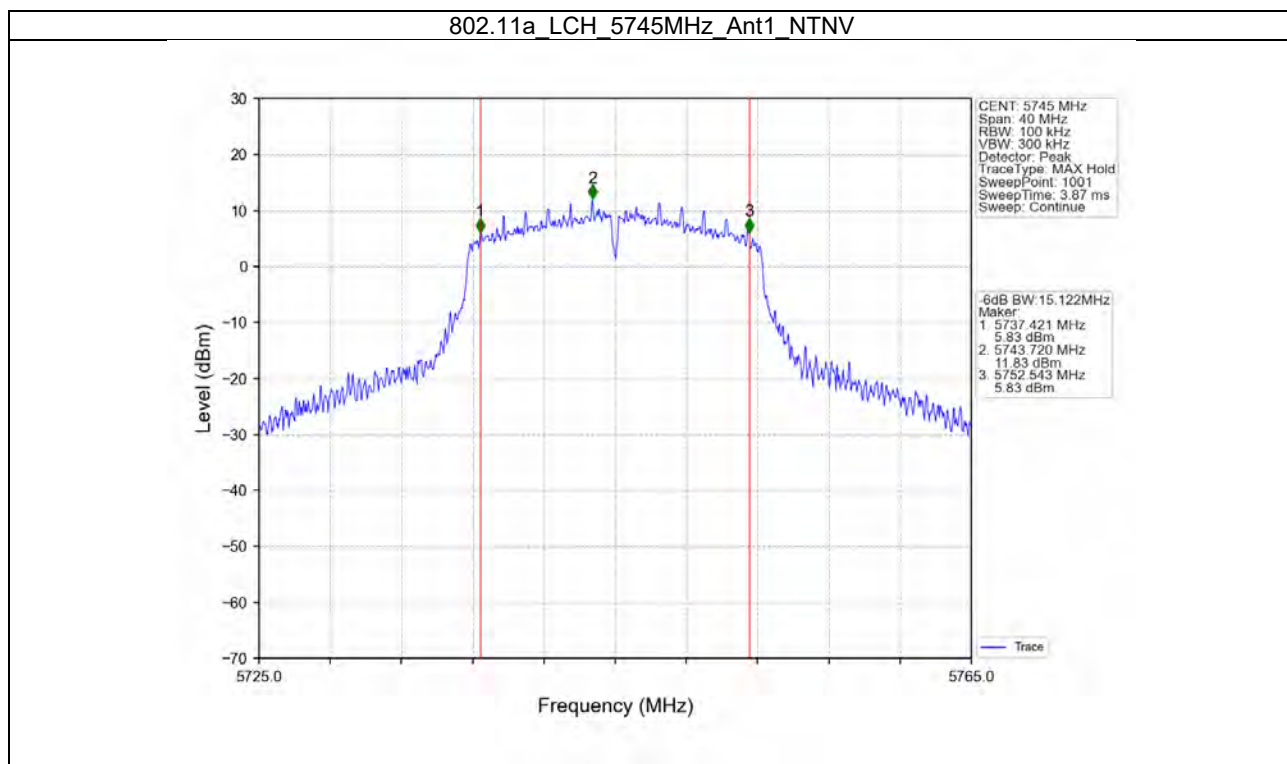


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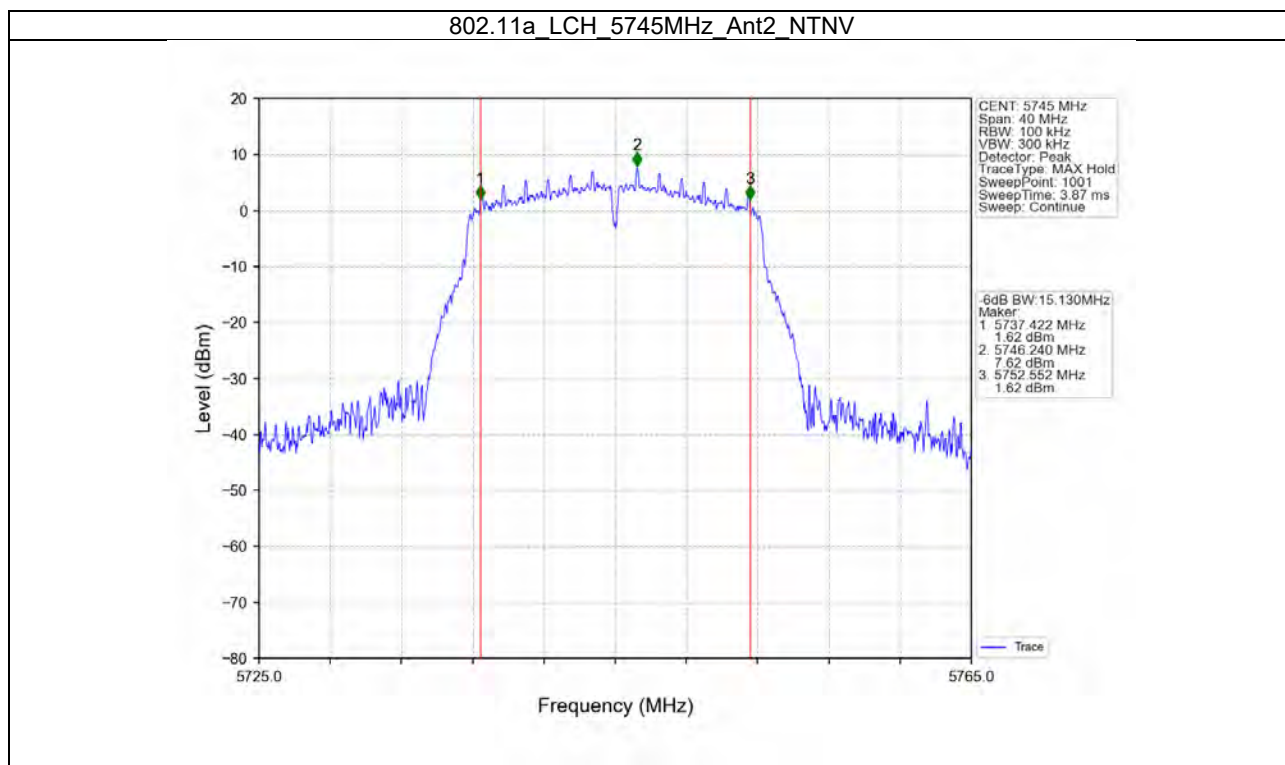


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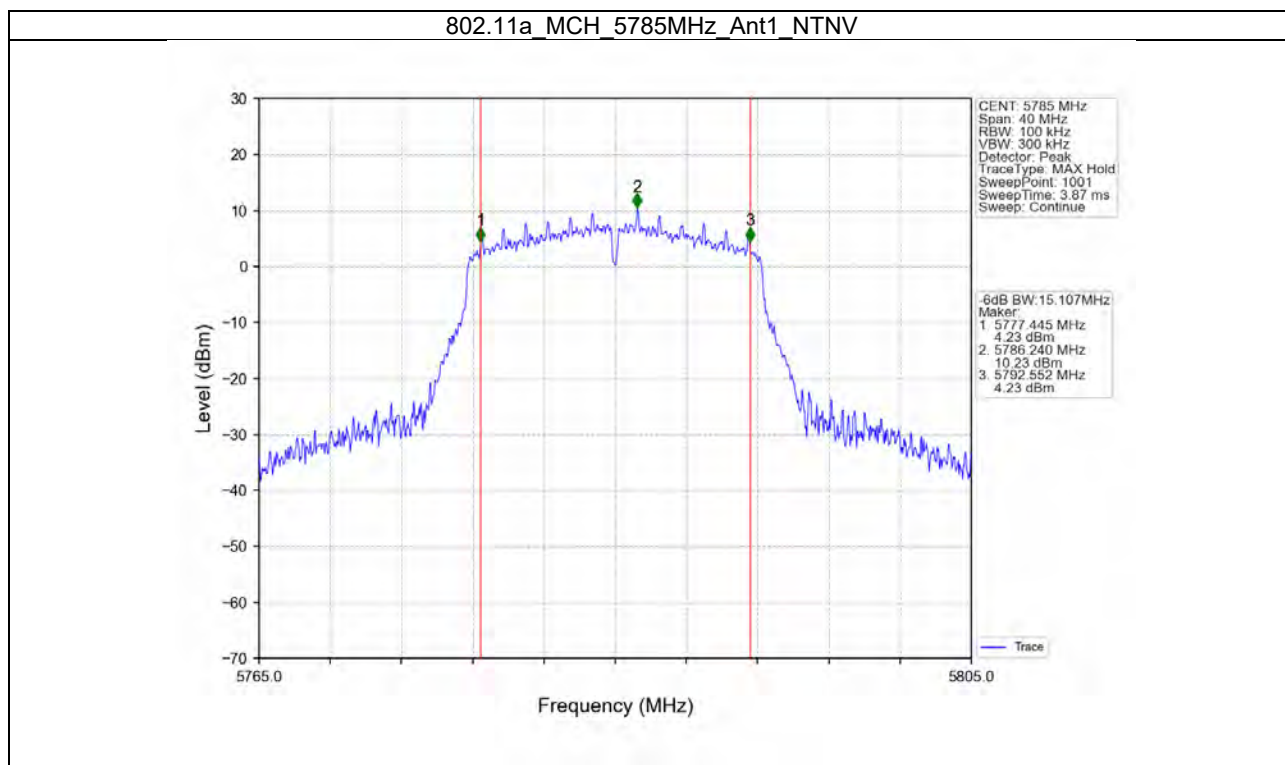




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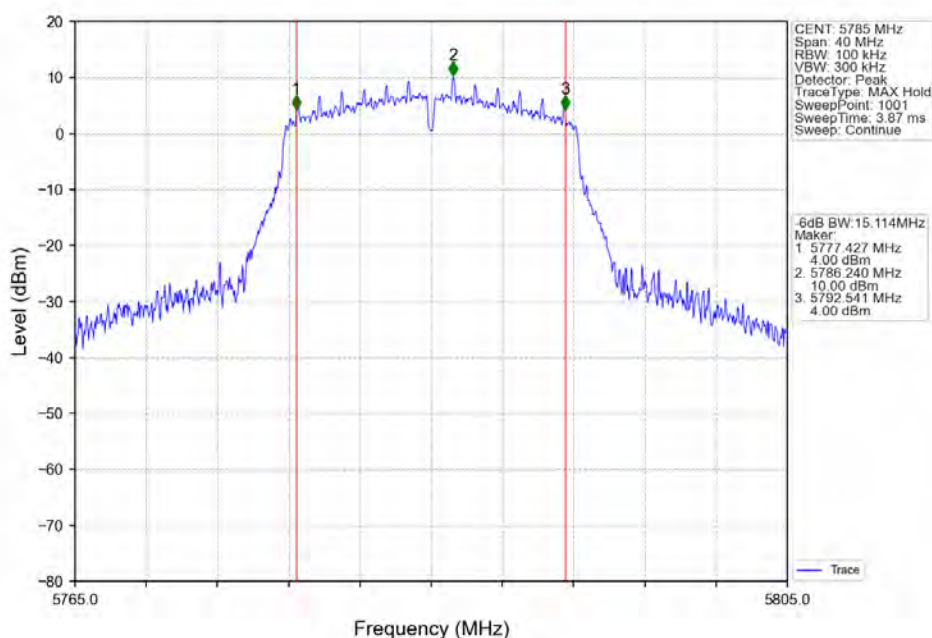


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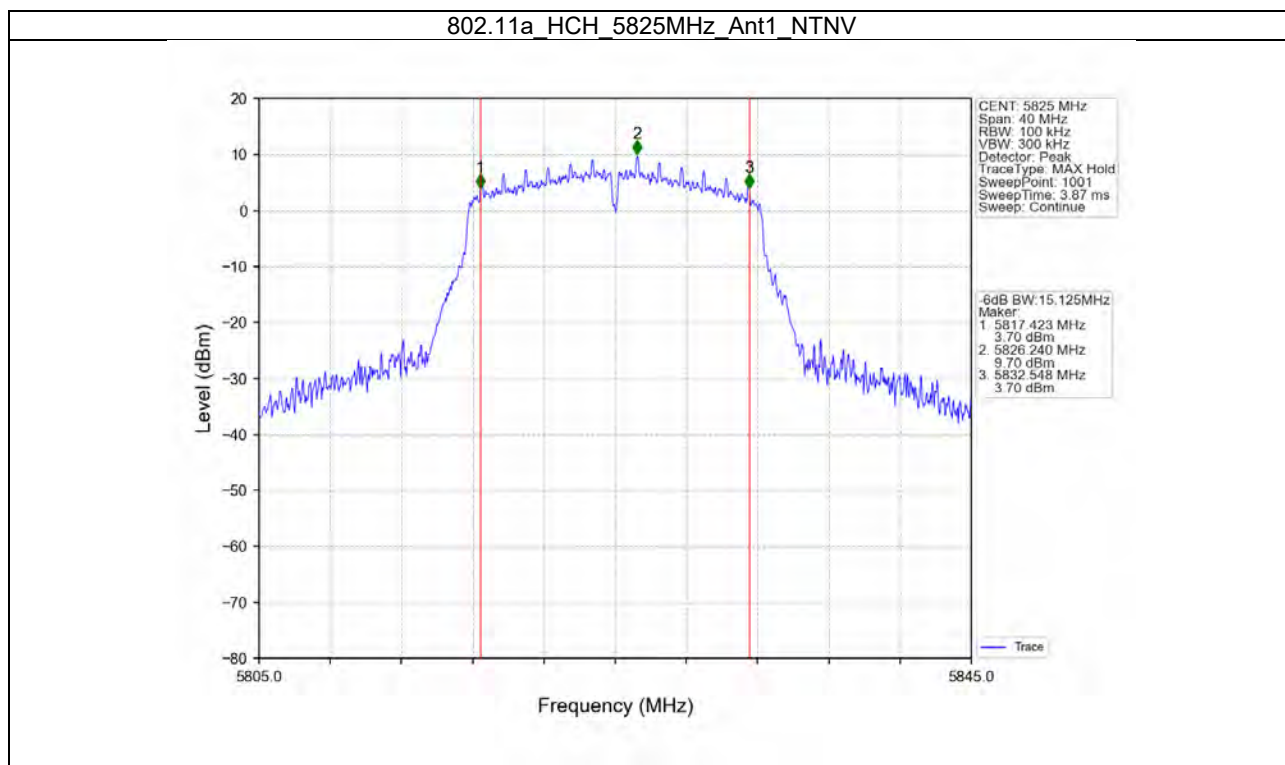
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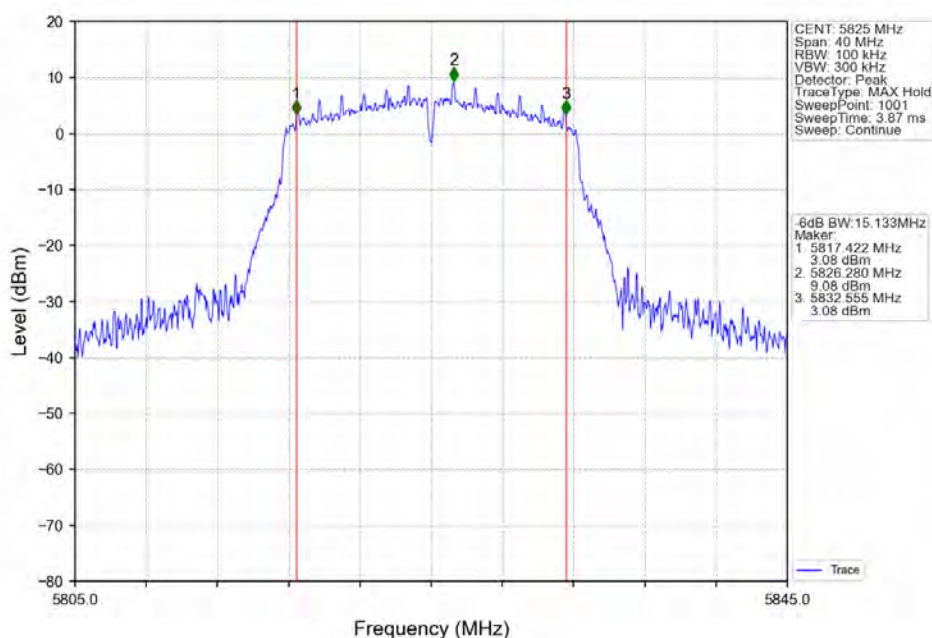


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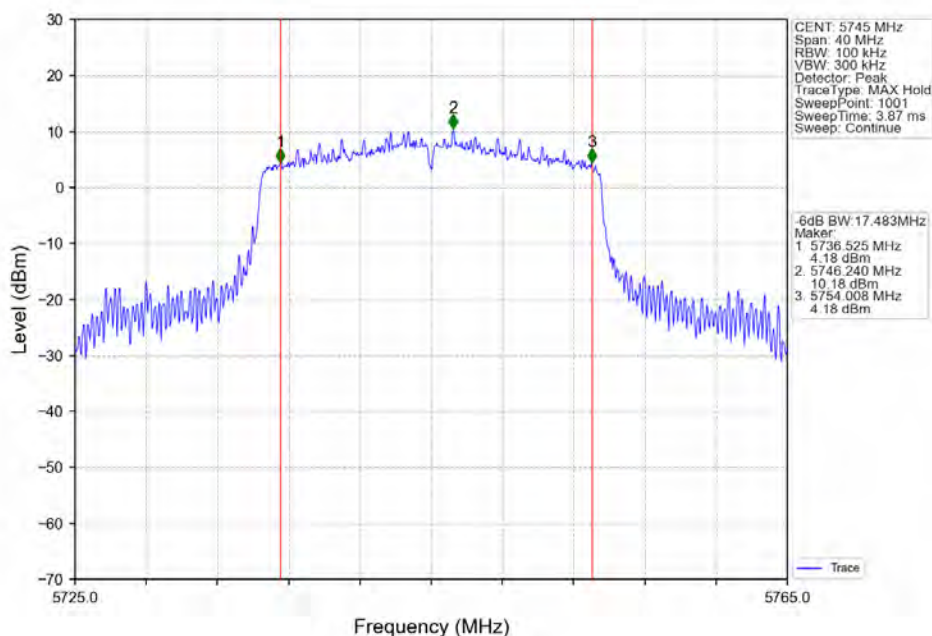


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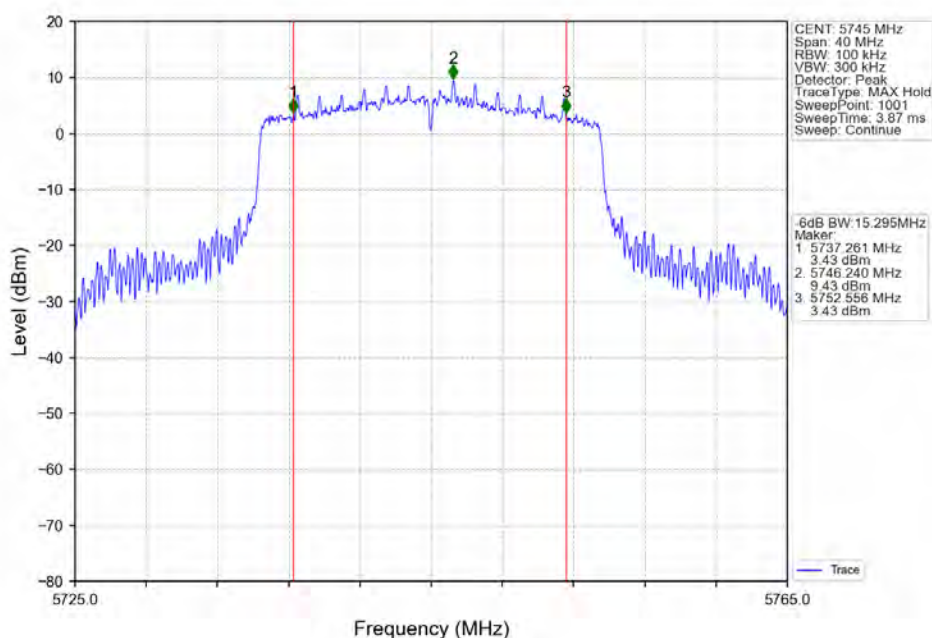
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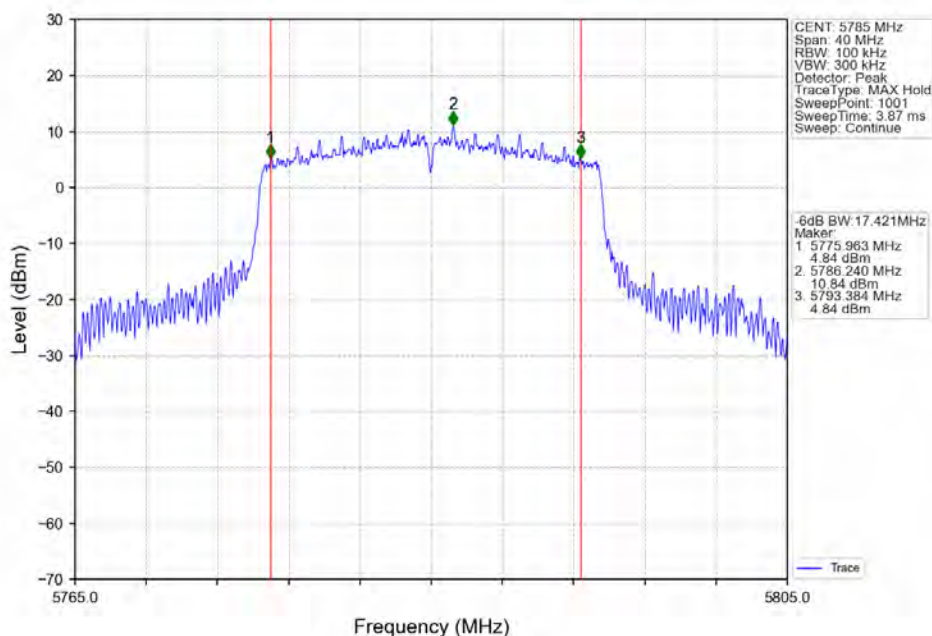


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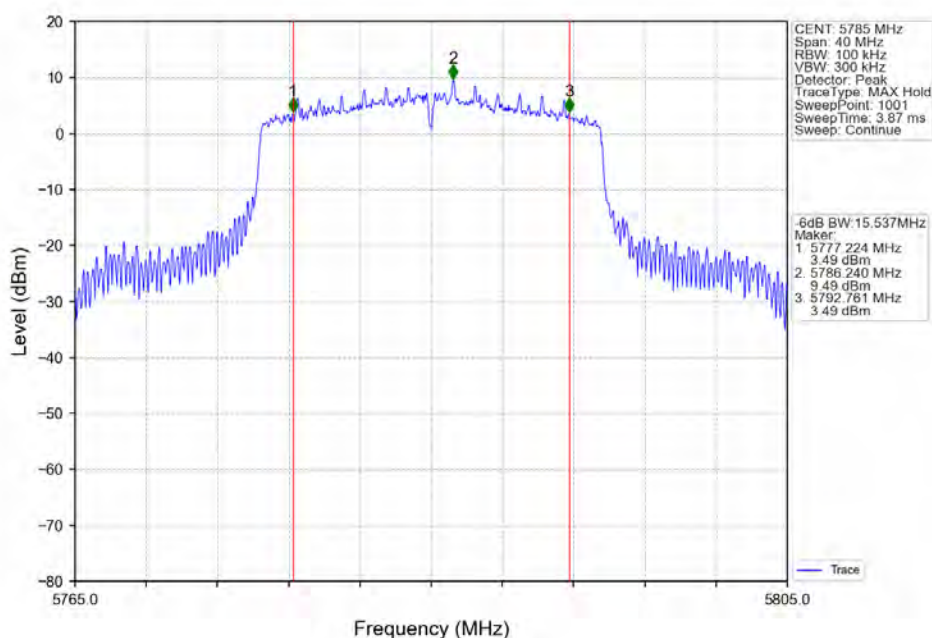


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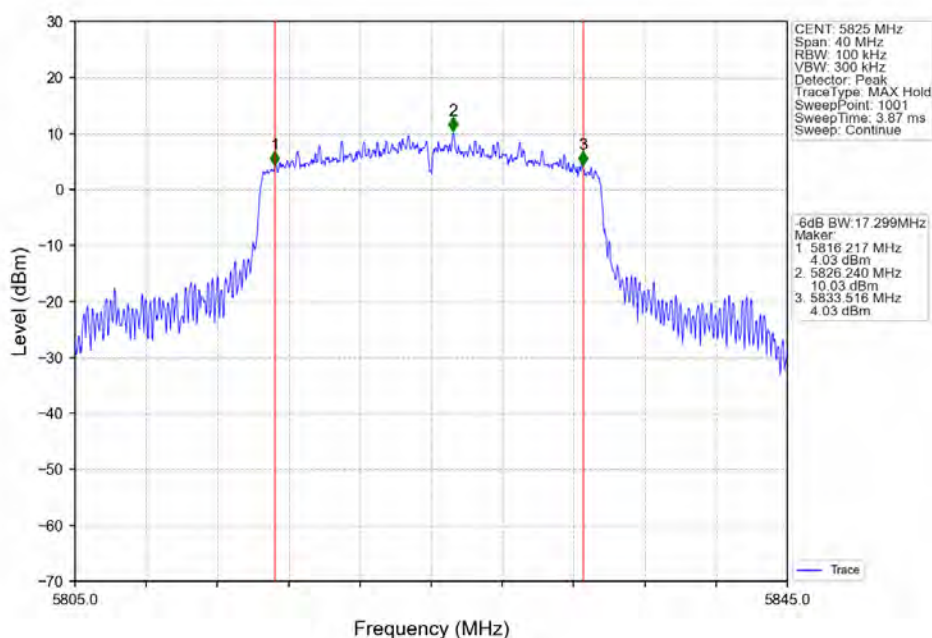


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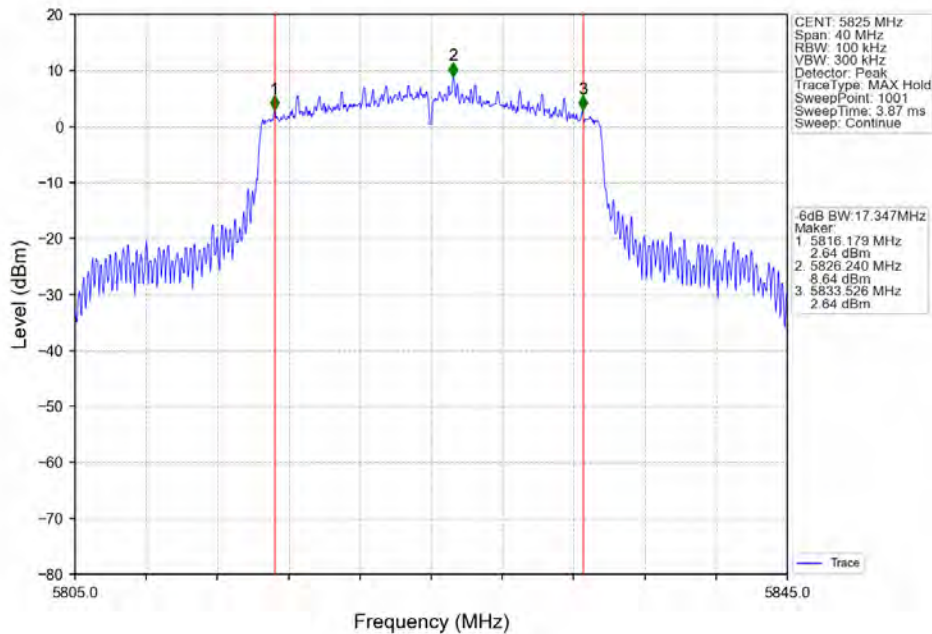


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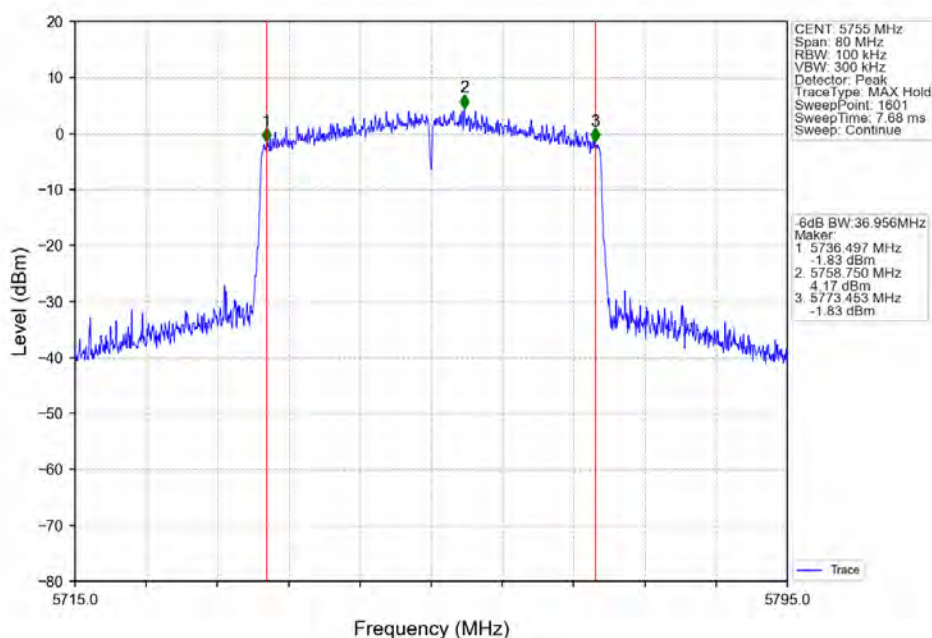


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802.11ax(HE40)\_LCH\_5755MHz\_RU484\_Left\_Ant1\_NTNV



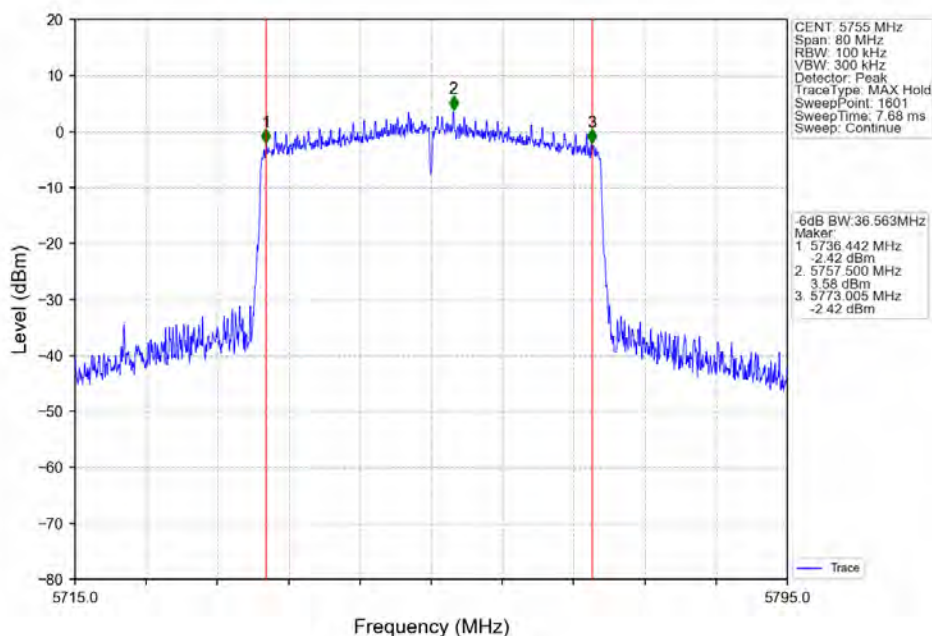
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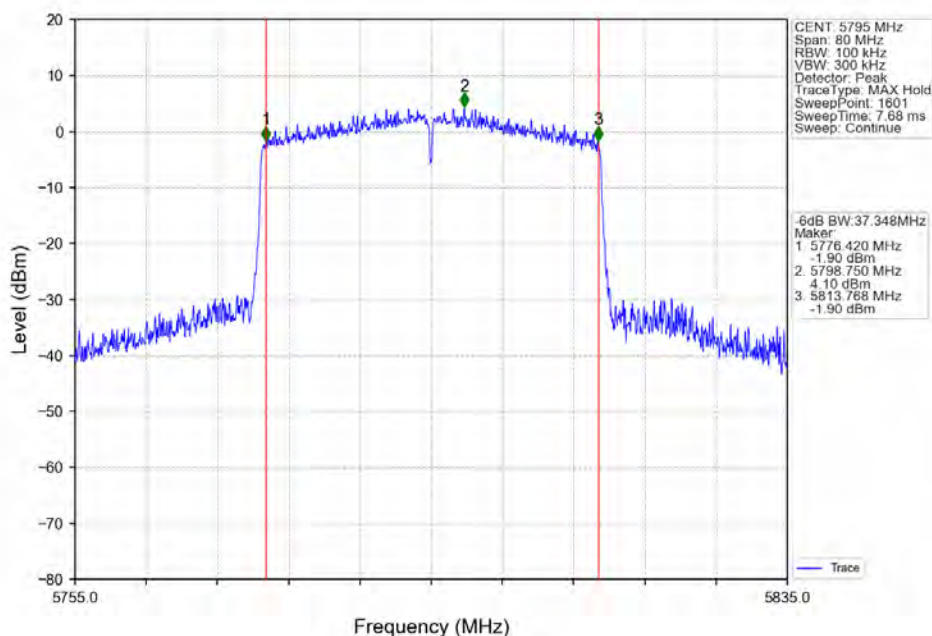


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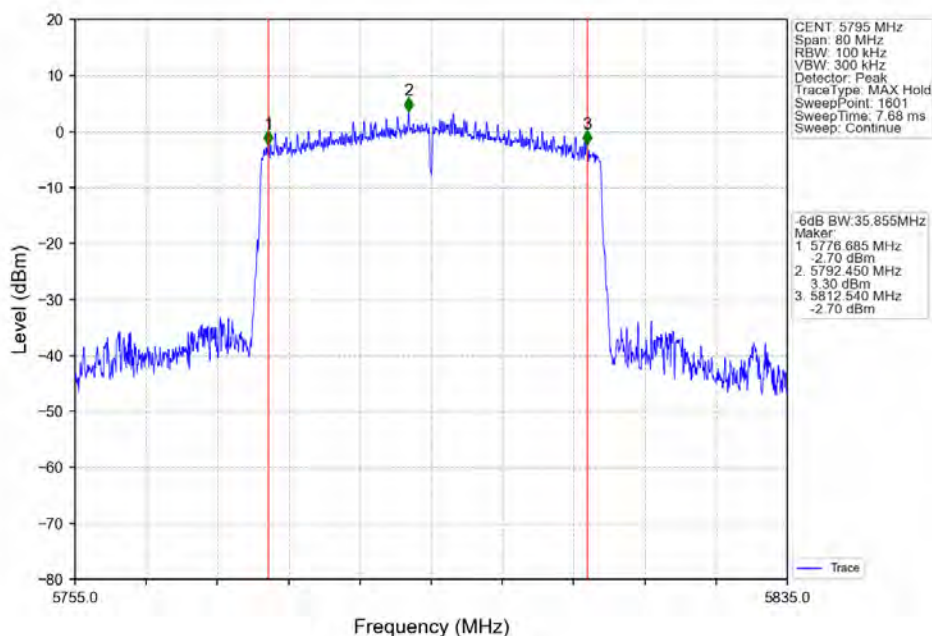


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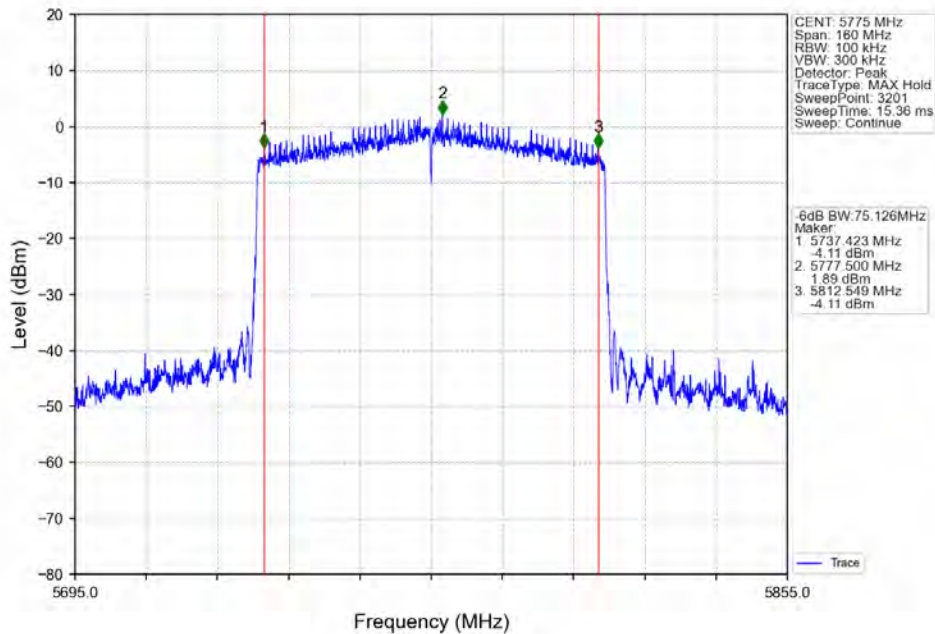


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802.11ax(HE80)\_MCH\_5775MHz\_RU996\_Left\_Ant1\_NTNV

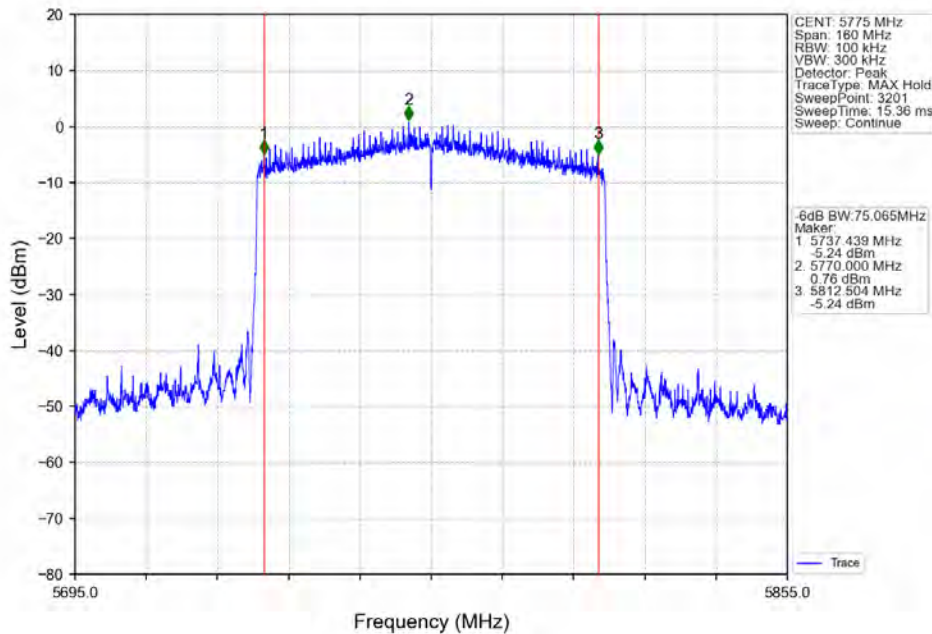


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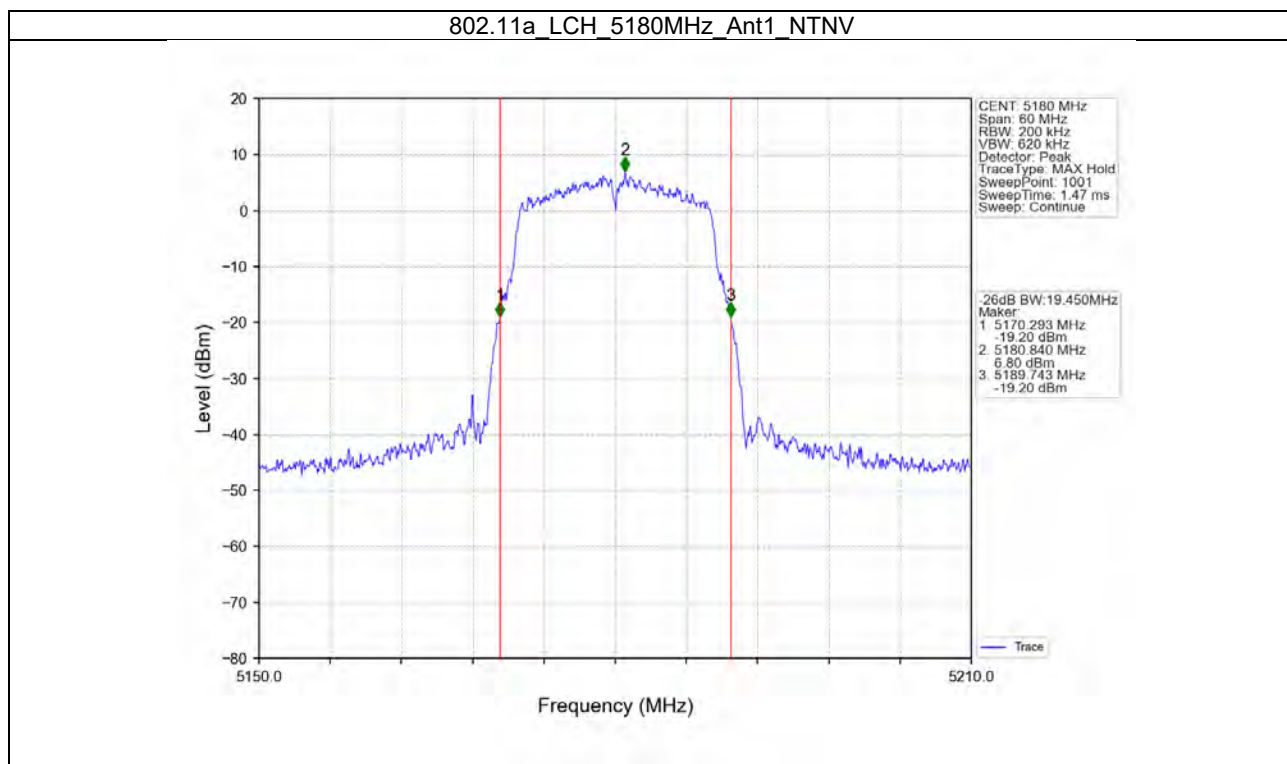


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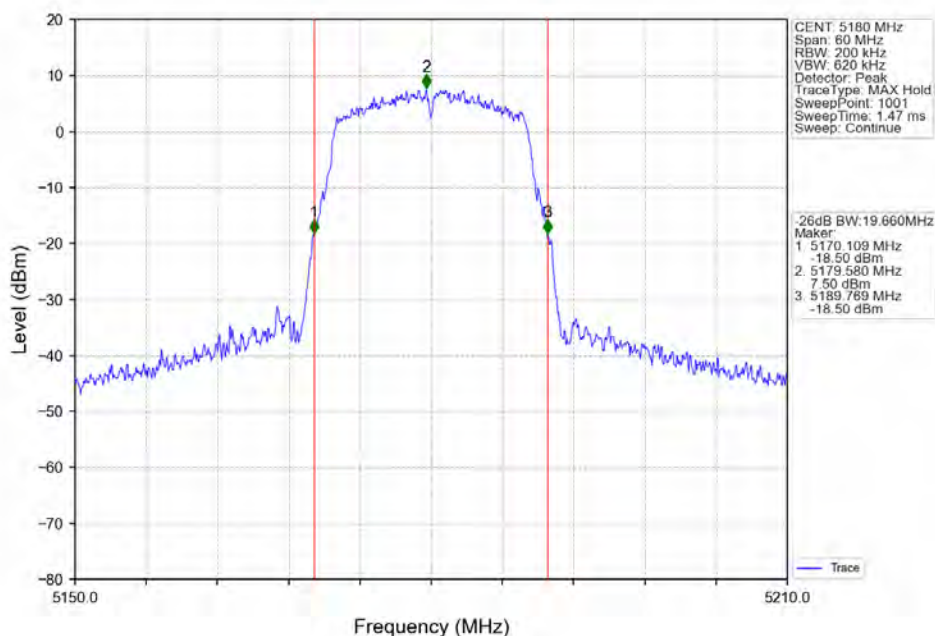
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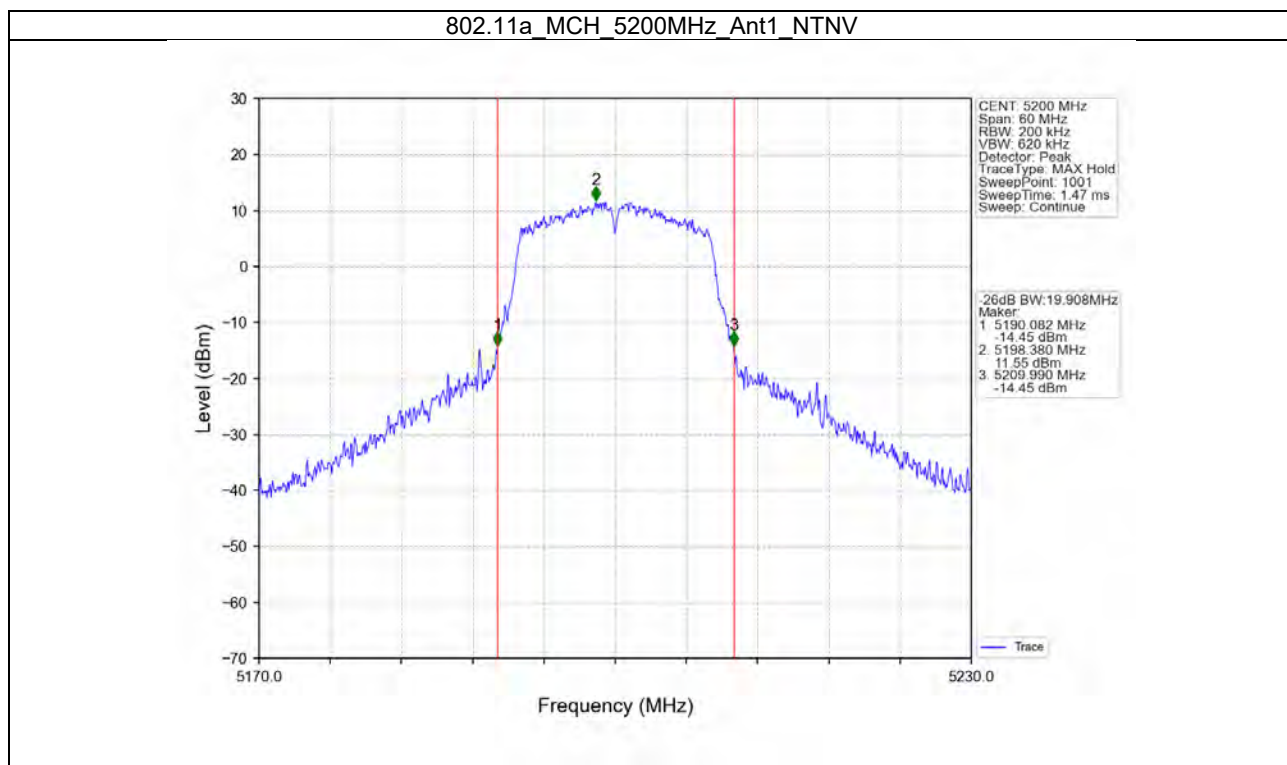
802.11a\_LCH\_5180MHz\_Ant2\_NTNV



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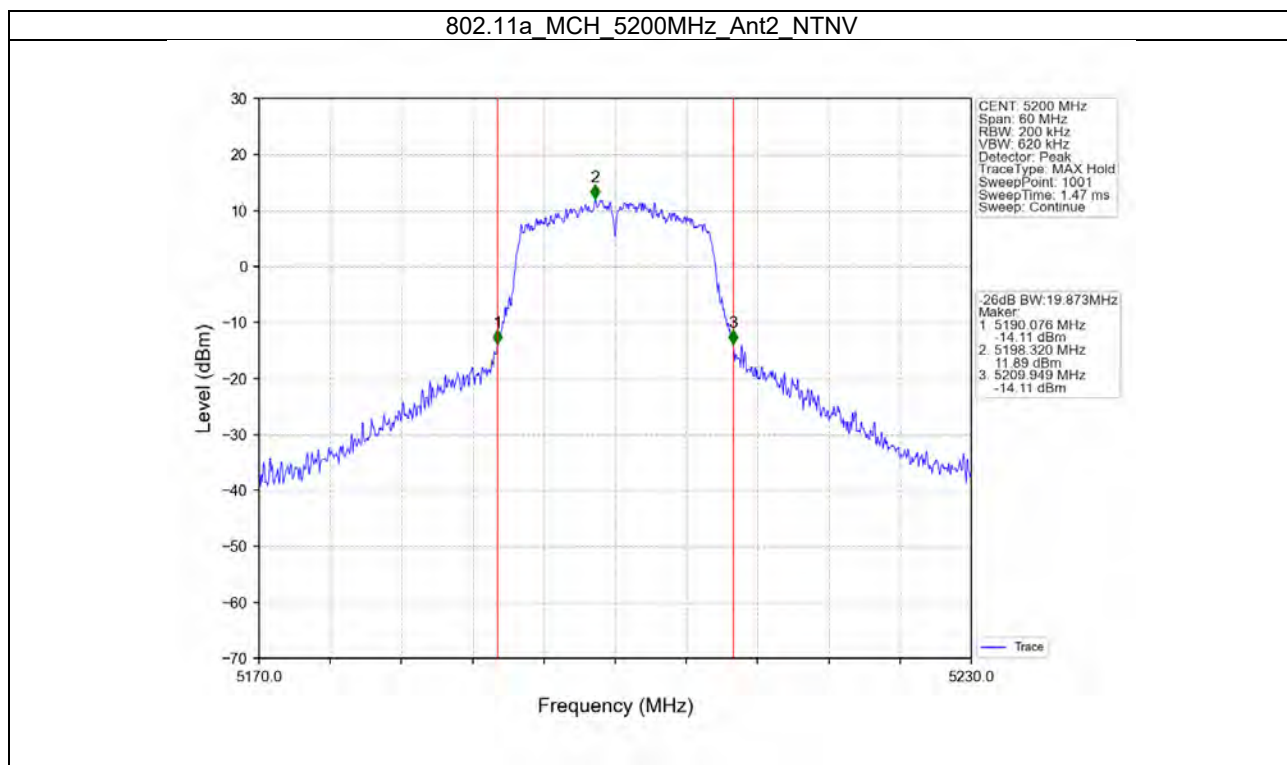
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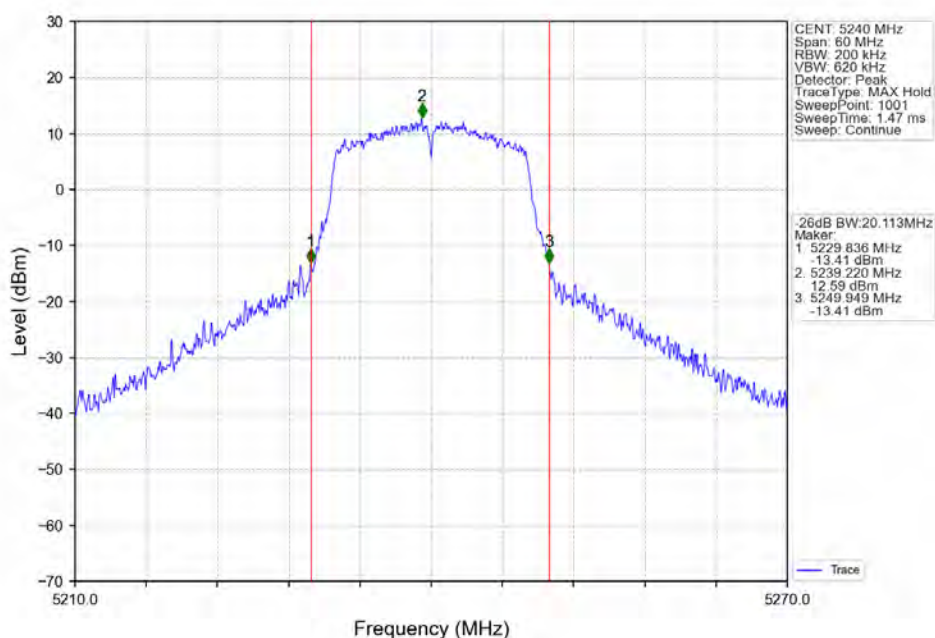


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802.11a\_HCH\_5240MHz\_Ant1\_NTNV

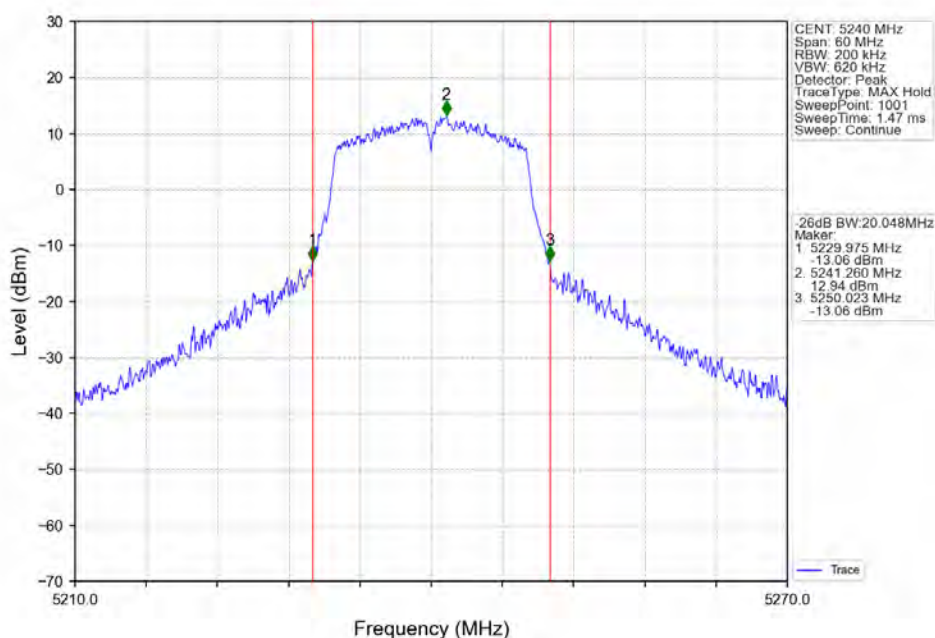


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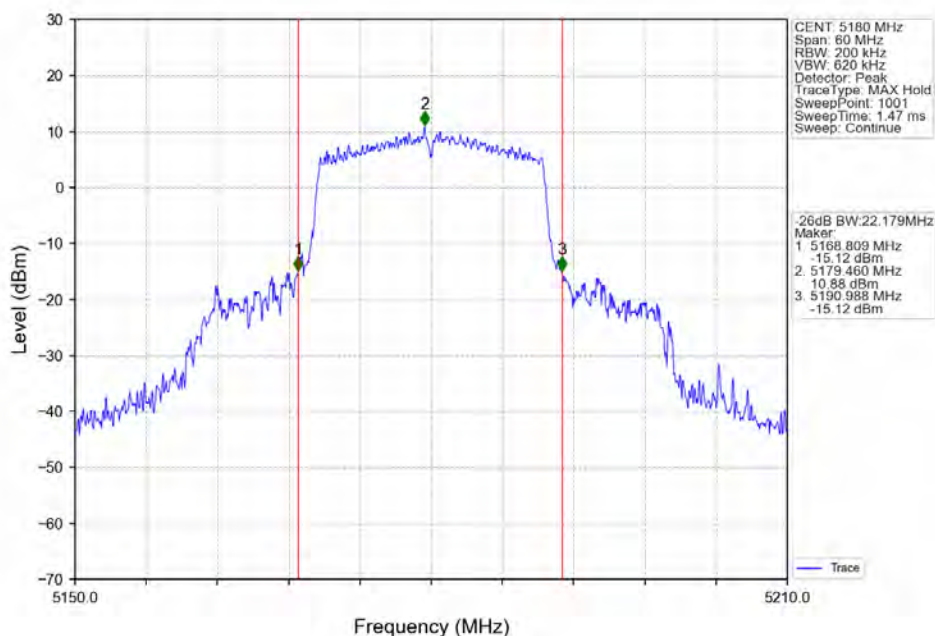


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802.11ax(HE20)\_LCH\_5180MHz\_RU242\_Left\_Ant1\_NTNV



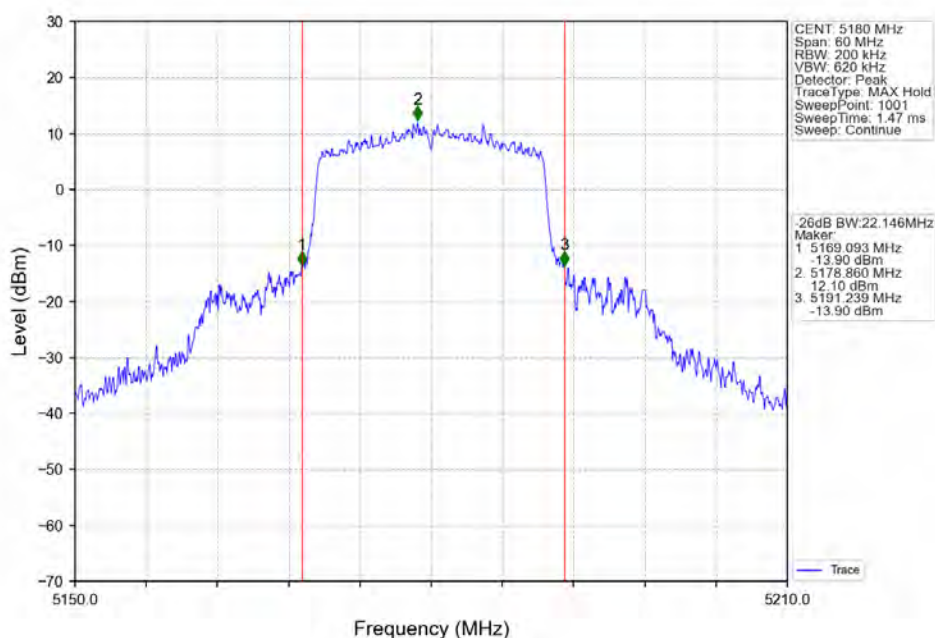
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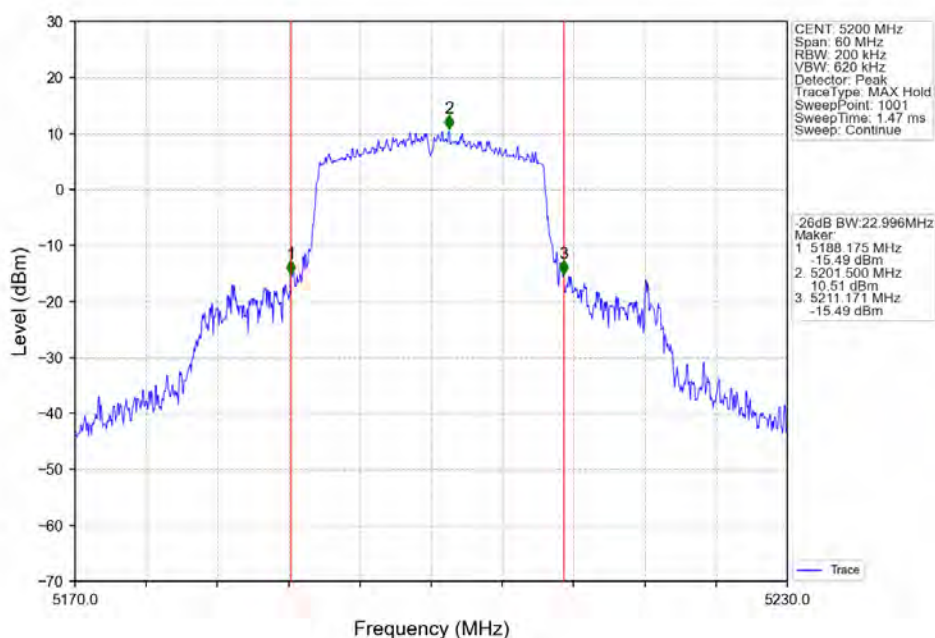


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