

Report No.: SUCR240200003407  
 Rev.: 01  
 Page: 1 of 268

# TEST REPORT

**Application No.:** SUCR2402000034WM  
**Applicant:** KonnectONE, Inc  
**Address of Applicant:** 40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A  
**Manufacturer:** KonnectONE, Inc  
**Address of Manufacturer:** 40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A  
**EUT Description:** smartphone  
**Model No.:** m2467  
**Trade Mark:** Moxee  
**FCC ID:** 2APQU-M2467  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart E  
**Date of Receipt:** 2024/02/07  
**Date of Test:** 2024/02/28 to 2024/07/05  
**Date of Issue:** 2024/07/08

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

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

Authorized Signature:


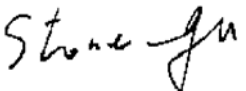
Well Wei  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024/07/08		Original

<b>Prepared By</b>		 <hr/> (Ives Cheng) / Test Engineer
<b>Checked By</b>		 <hr/> (Stone Gu) / Reviewer



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## 2 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
	Band II-A	15.407(a)(2)			
	Band II-C	15.407(a)(2)			
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
99% Occupied Bandwidth	Band I	KDB 789033 D02§ D	No limit.	Clause 4.7	For Report Purpose
	Band II-A				
	Band II-C				
	Band III				
Duty Cycle	Band I Band II-A Band II-C Band III	--	No limit.	Clause 4.3	For Report Purpose
Maximum Conducted Output Power	Band I	15.407(a)(iv)	< 250mW	Clause 4.4	PASS
	Band II-A	15.407(a)(2)	<MIN{250mW, 11dBm+10*Ig(EBW)}		
	Band II-C				
	Band III	15.407(a)(3)	< 1W		
Maximum Power Spectral Density	Band I	15.407(a)(iv)	<11dBm/MHz	Clause 4.8	PASS
	Band II-A	15.407(a)(2)	<11dBm/MHz		
	Band II-C				
	Band III	15.407(a)(3)	<30dBm/500KHz		
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 II-A	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. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS
	Band II-C	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. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS
	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz & out-restricted:(PK)		PASS



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			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 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).		
Restricted bands around fundamental frequency	Band I Band II-A Band II-C Band III	15.407(b) 15.205/15.209	---	Clause 4.10	PASS
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207	---	Clause 4.2	PASS
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 4.11	PASS
Frequency Stability	Band I Band II-A Band II-C 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
<p>Note 1: Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz</p>					



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### 3 General Information

#### 3.1 Details of Client

Applicant:	KonnectONE, Inc
Address of Applicant:	40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A
Manufacturer:	KonnectONE, Inc
Address of Manufacturer:	40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A

#### 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, King-p Li

#### 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:	smartphone	
Model No.:	m2467	
Trade Mark:	Moxee	
Hardware Version:	J610_6835D4UFM10_G30U	
Software Version:	m2467_V01	
Power Supply:	5V	
IMEI:	RF Conducted	IMEI1:354085074901243 IMEI2:354085074901250
	RSE & AC power line	357916025680198
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)
	40MHz:	802.11n(HT40)/ac(VHT40)
	80MHz:	802.11ac(VHT80)
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated	
Antenna Gain:	5150MHz to 5250MHz: 0.73dBi(Ant7); 5250MHz to 5350MHz: 0.73dBi(Ant7); 5470MHz to 5725MHz: 0.73dBi(Ant7); 5725MHz to 5850MHz: 0.73dBi(Ant7);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11a/n/ac
TPC Function:	<input checked="" type="checkbox"/> Support, <input type="checkbox"/> Not Support	
DFS Function:	<input type="checkbox"/> Master	
	<input type="checkbox"/> Slave with radar detection	<input checked="" type="checkbox"/> Slave without radar detection
RF Cable:	2.0dB	
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**Remark:**

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/n/ac 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

**For UNII Band II-A:**

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac 80MHz	The Middle channel	5290



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For UNII Band II-C:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac 40MHz	The Lowest channel	5510
	The Middle channel	5550
	The Highest channel	5670
IEEE 802.11ac 80MHz	The Middle channel	5530

For UNII Band III:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775



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### 3.5 Test Environment and Mode

<b>Environment Parameter</b>	96~101 kPa Selected Values During Tests	
<b>Relative Humidity</b>	40-60 % RH Ambient	
<b>Value</b>	<b>Temperature(°C)</b>	<b>Voltage(V)</b>
NTNV	22~25	3.87
Remark: NV: Normal Voltage NT: Normal Temperature		

### 3.6 Description of Support Units

<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>
Router	ASUS	GT-AXE11000 (FCC ID: MSQ-RTAXJF00)

### 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	MIMO - Data Rate
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	/
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	/



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15 Section 15.203
<p>The antenna is Integrated Antenna and no consideration of replacement.          The best case gain of the antenna is          5150MHz to 5250MHz: 0.73dBi(Ant7);*          5250MHz to 5350MHz: 0.73dBi(Ant7);*          5470MHz to 5725MHz: 0.73dBi(Ant7);*          5725MHz to 5850MHz: 0.73dBi(Ant7);*</p> <p><i>*Note:</i>          The antenna gain are derived from the gain information report provided by the manufacturer.</p> <p><i>Remark:</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.</p>	



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



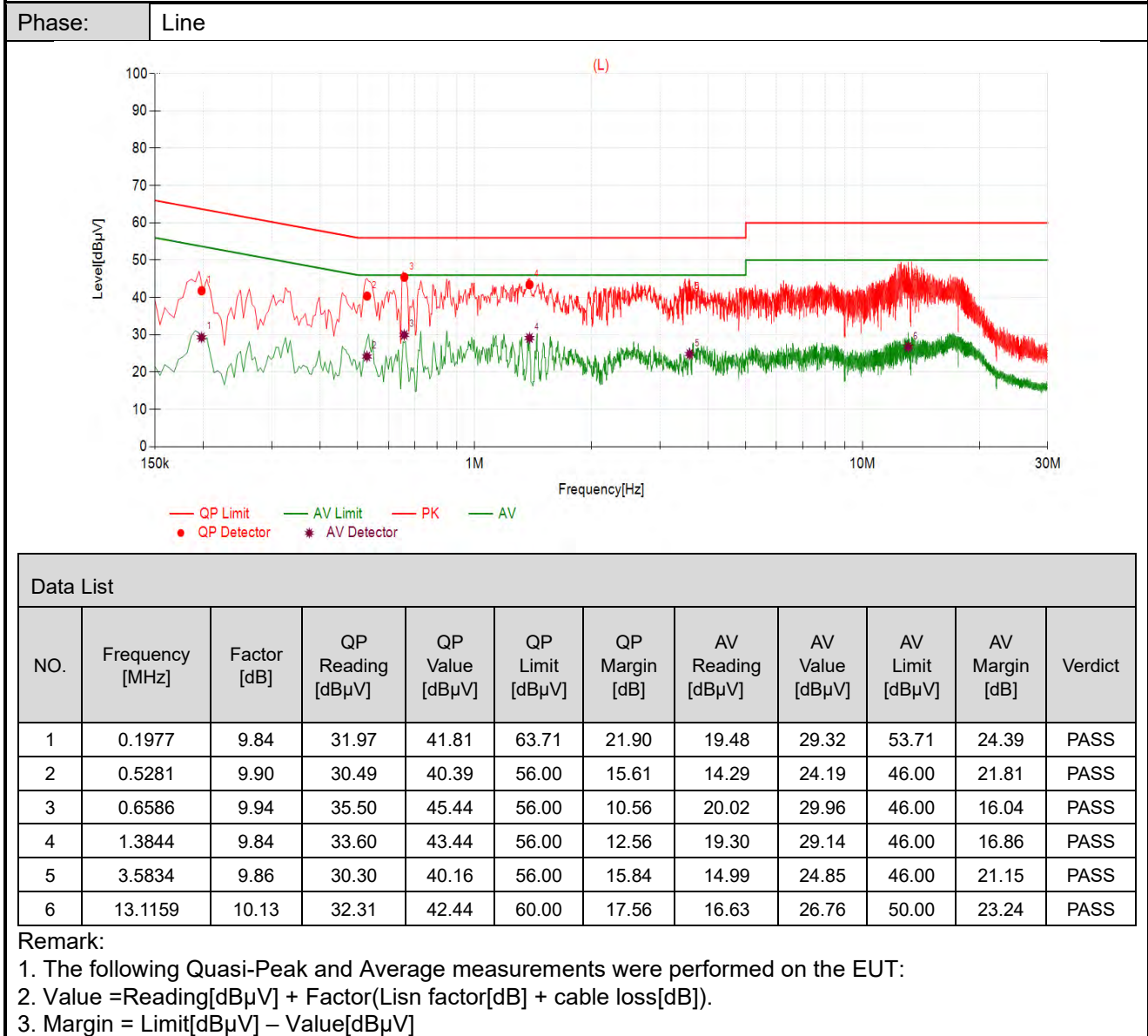
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**Measurement Data**

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.

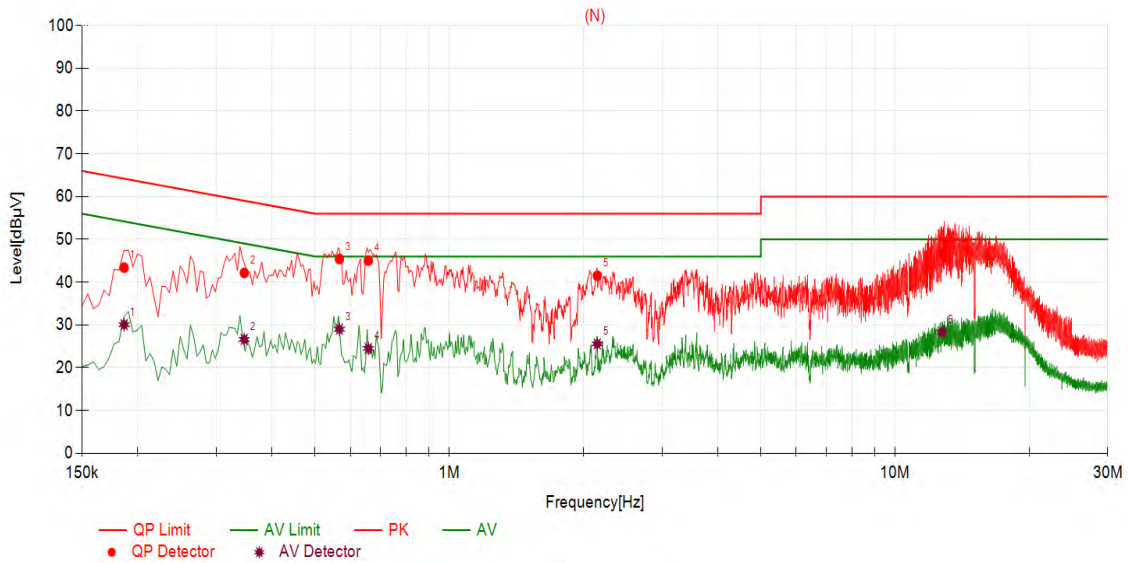


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Phase:	Neutral
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Data List

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	0.1864	9.83	33.57	43.40	64.19	20.79	20.25	30.08	54.19	24.11	PASS
2	0.3466	9.80	32.39	42.19	59.04	16.85	16.82	26.62	49.04	22.42	PASS
3	0.5666	9.86	35.57	45.43	56.00	10.57	19.15	29.01	46.00	16.99	PASS
4	0.6580	9.85	35.22	45.07	56.00	10.93	14.65	24.50	46.00	21.50	PASS
5	2.1471	9.87	31.63	41.50	56.00	14.50	15.71	25.58	46.00	20.42	PASS
6	12.7508	10.21	36.51	46.72	60.00	13.28	18.16	28.37	50.00	21.63	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 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>	



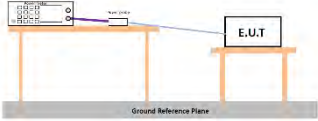
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### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013 Section 12.3.3.2	
Test Setup:	 <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 250mW(23.98dBm)
	5250-5350MHz	The lesser of 250mW(23.98dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(23.98dBm) or 11+ 10logB
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	
The detailed test data see: <b>Appendix</b>		



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### 4.5 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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### 4.6 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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### 4.7 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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### 4.8 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 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/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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### 4.9 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:

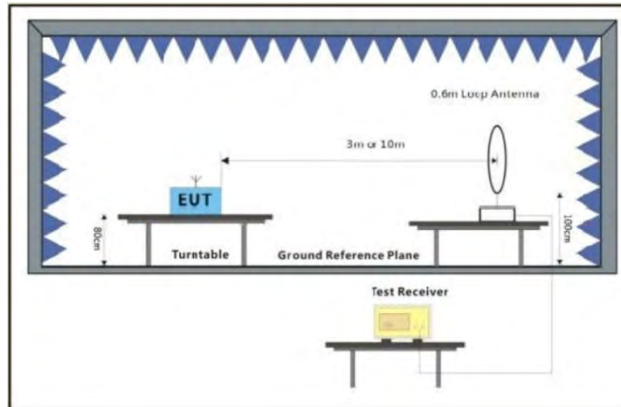


Figure 1. 9kHz to 30MHz

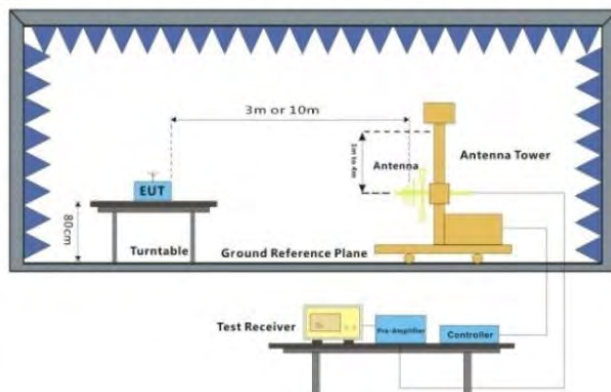


Figure 1. 30MHz to 1GHz

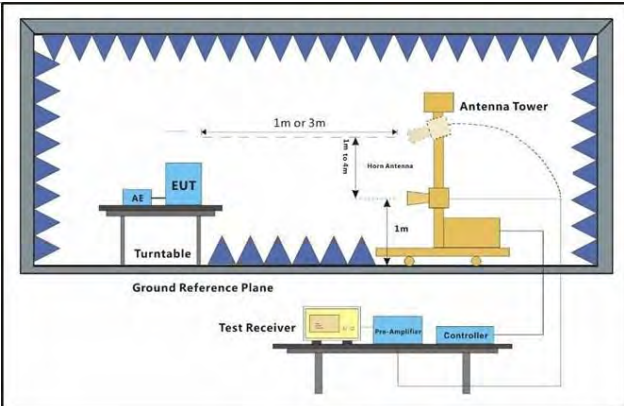


Figure 2. Above 1 GHz

Test Procedure:

- 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.
- 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. (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.



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	<p>e. 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.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</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> <p>j. 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</p> <p>k. 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.</p> <p>l. 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>.</p>
<p>Test Configuration:</p>	<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 3 \text{ MHz}</math></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 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>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>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.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>



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Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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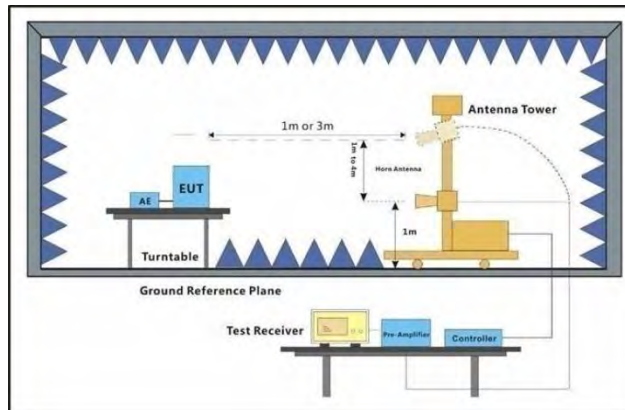
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### 4.10 Restricted bands around fundamental frequency

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.
- 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 outermost channels.
- The radiation measurements are performed in X, Y, Z axis positioning for



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	Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
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 ≥ 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 ≥ 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:	Transmitting with all kind of modulations, data rates. 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: <b>Appendix</b>	



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## 4.11 Dynamic Frequency Selection

### 4.11.1 DFS Overview

**Table 1: Applicability of DFS Requirements Prior to Use of a Channel**

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

**Table 2: Applicability of DFS requirements during normal operation**

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
<b>Additional requirements for devices with multiple bandwidth modes</b>	<b>Master Device or Client with Radar Detection</b>	<b>Client Without Radar Detection</b>
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
<p><b>Note:</b> Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.</p>		



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4.11.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

**Note 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna.  
**Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.  
**Note 3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.



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4.11.3 RADAR TEST WAVEFORMS

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \begin{matrix} \left( \frac{1}{360} \right) \cdot \\ \left( \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \end{matrix} \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
<b>Note 1:</b> Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					



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Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	35	29	82.9%
2	30	18	60%
3	30	27	90%
4	50	44	88%
Aggregate $(82.9\% + 60\% + 90\% + 88\%)/4 = 80.2\%$			



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**Table 6 – Long Pulse Radar Test Waveform**

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

**Table 7 – Frequency Hopping Radar Test Waveform**

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

**4.11.4 Response Requirements**

**Table 4: DFS Response Requirement Values**

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

**Note 1:** *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

**Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

**Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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	±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	± 3.0dB (150kHz to 30MHz)
8	Radiated Emission	± 4.6dB (9KHz~30MHz)
		± 4.9dB (30MHz~1GHz)
		± 4.9dB (1GHz to 6GHz)
		± 4.7dB (6GHz to 18GHz)
		± 5.26dB (Above 18GHz)

**Remark:**

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (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
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2024/02/04	2025/02/03
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

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022/05/14	2025/05/13
Test receiver	ROHDE&SCHWARZ	ESR	SUWI-01-10-02	2023/08/30	2024/08/29
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2023/06/30	2024/06/29
Temperature and humidity meter	deli	8838	SEM002-32	2023/07/28	2024/07/27
Measurement Software	Tonscend	TS+ V4.0.0.0	SUWI-02-02-06	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	SUWI-01-16-14	2023/08/30	2024/08/29
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-05	2023/06/30	2024/06/29



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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)
Fully-Anechoic Chamber 2	Chang Zhou Zhong Shuo	854	SEM001-05	2023/06/19	2026/06/18
MXA signal analyzer	Keysight	N9020A	SUWI-01-02-11	2024/02/02	2025/02/01
Spectrum Analyzer*	ROHDE&SCHWARZ	FSV3044	SUWI-01-05-04	2023/05/15	2024/05/14
Test receiver	ROHDE&SCHWARZ	ESR	SUWI-01-10-02	2023/08/30	2024/08/29
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	SUWI-01-11-10	2022/07/28	2024/07/27
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	SUWI-01-11-11	2022/07/28	2024/07/27
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	SUWI-01-11-12	2022/07/23	2024/07/22
Directional antenna rack controller	Max-Full	MF-7802BS	SUWI-03-57-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	SUWI-03-58-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	SUWI-03-02-04	NCR	NCR
Filter bank	Tonscend	JS0806s	SUWI-03-02-05	NCR	NCR
Amplifier*	Tonscend	TAP9K3G32	SUWI-01-14-14	2023/05/15	2024/05/14
Amplifier	Tonscend	TAP01018048	SUWI-01-14-15	2023/08/30	2024/08/29
Amplifier	Tonscend	TAP18040048	SUWI-01-14-16	2023/08/30	2024/08/29
Amplifier	Shanghai Steed	YX28980930	SUWI-01-14-17	2023/08/30	2024/08/29
Temperature and humidity meter	deli	8838	SEM002-32	2023/07/28	2024/07/27
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	SUWI-01-16-14	2023/08/30	2024/08/29
Measurement Software	Tonscend	TS+ V4.0.0.0	SUWI-02-02-06	NCR	NCR
Loop Antenna*	Schwarzbeck	FMZB 1519B	SUWI-01-21-02	2022/05/26	2024/05/25

Remark: NCR=No Calibration Requirement.

\*Note: The RSE were tested in 2024/04/19 to 2024/04/23, so the equipment is not used for testing after 2024/04/23.



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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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Duty Cycle

Test Result

Ant7

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Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.392	1.427	97.55	0.11	0.03
802.11n (HT20)	SISO	5180	1.300	1.336	97.31	0.12	0.07
802.11n (HT40)	SISO	5190	0.648	0.683	94.88	0.23	0.13
802.11ac (VHT20)	SISO	5180	1.313	1.348	97.40	0.11	0.00
802.11ac (VHT40)	SISO	5190	0.653	0.687	95.05	0.22	0.03
802.11ac (VHT80)	SISO	5210	0.324	0.358	90.50	0.43	0.07



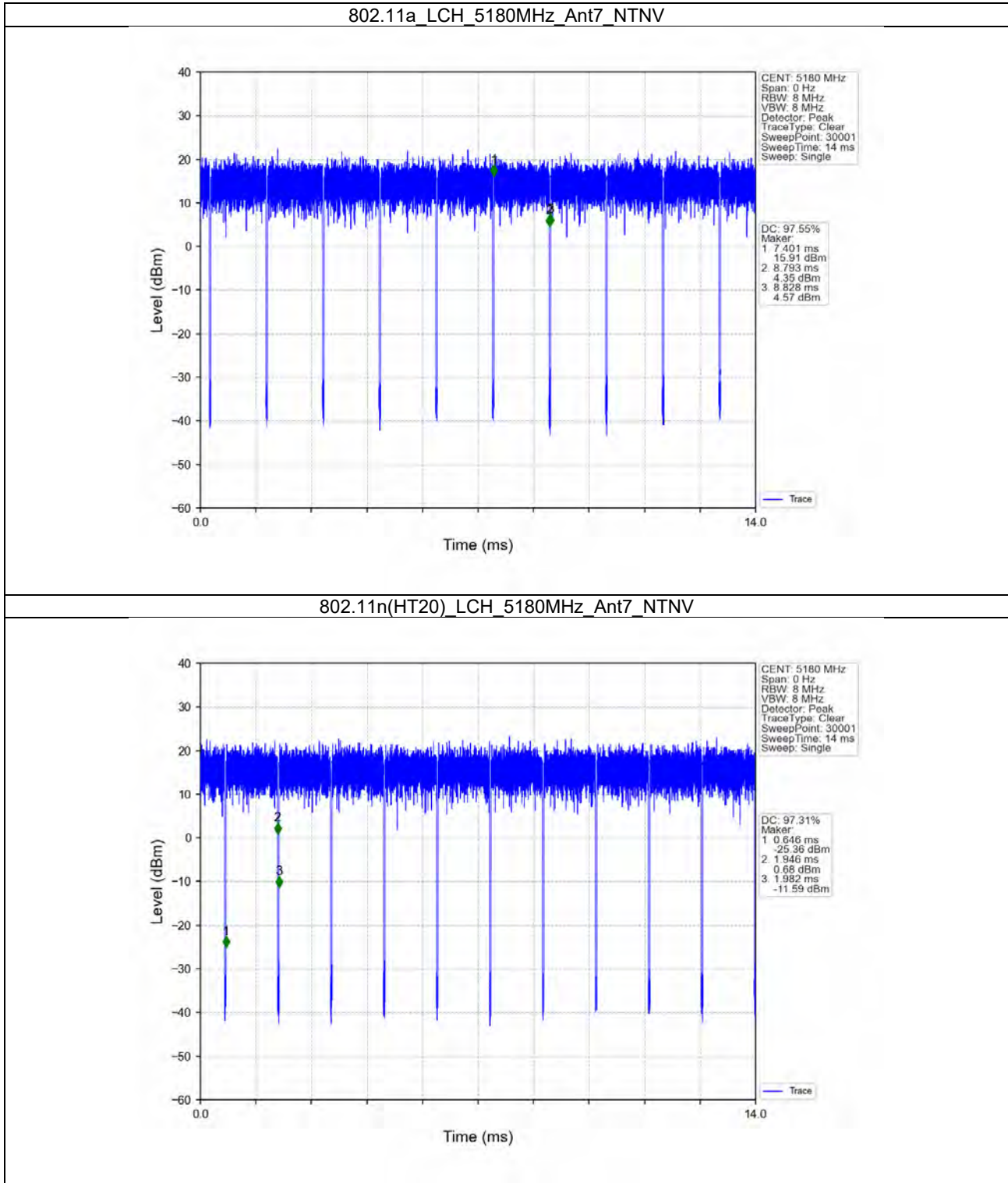
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Test Graph

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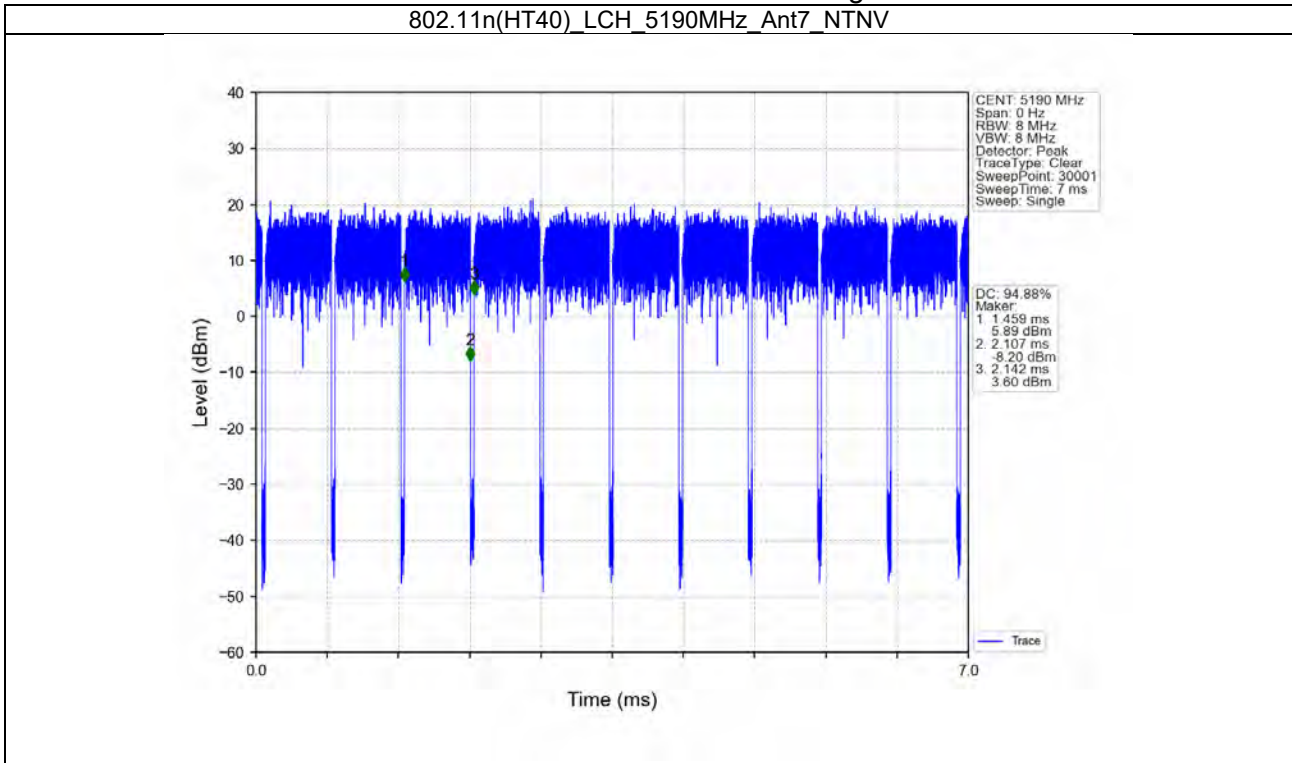
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802.11n(HT40)\_LCH\_5190MHz\_Ant7\_NTNV

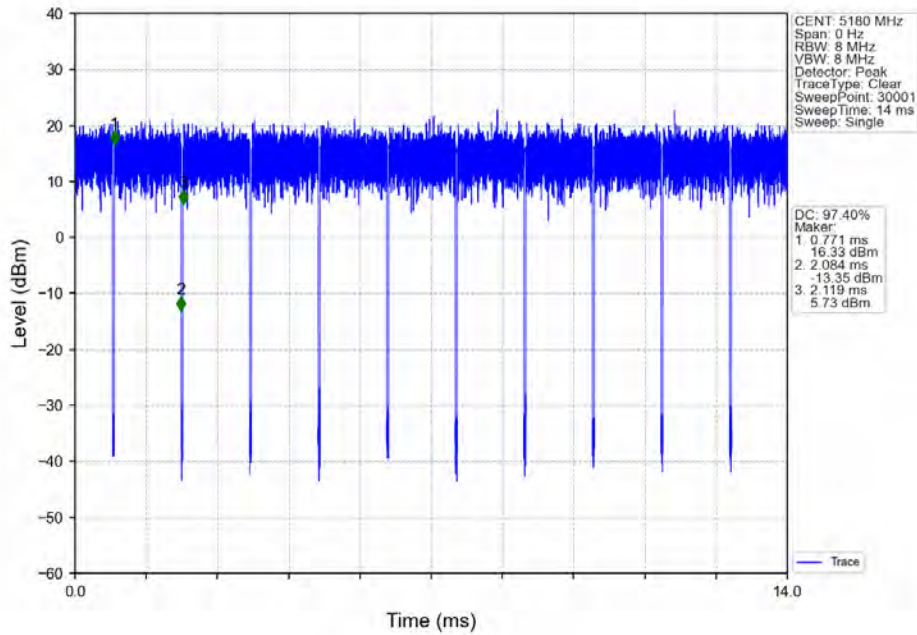


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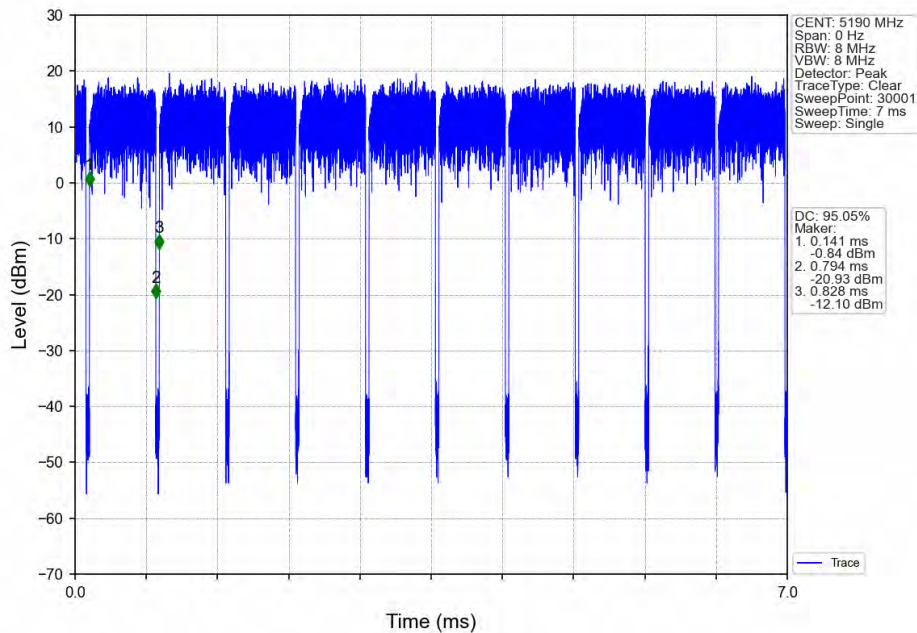
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802.11ac(VHT20) LCH 5180MHz Ant7 NTN



802.11ac(VHT40) LCH 5190MHz Ant7 NTN



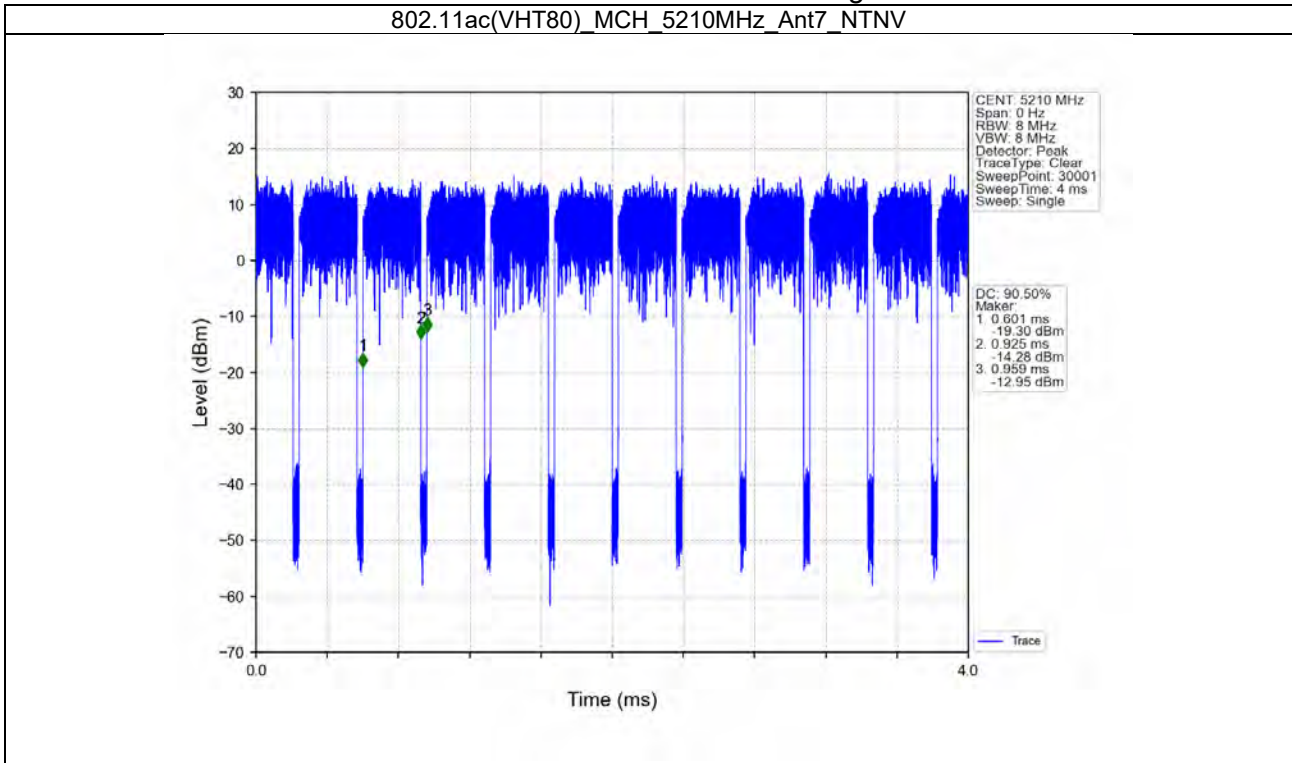
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802.11ac(VHT80) MCH 5210MHz Ant7 NTVN

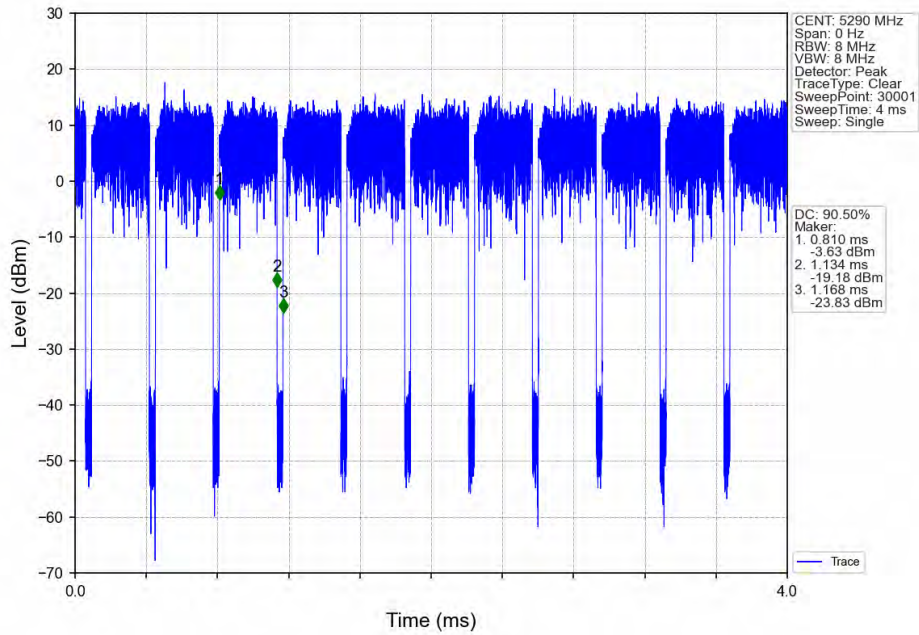


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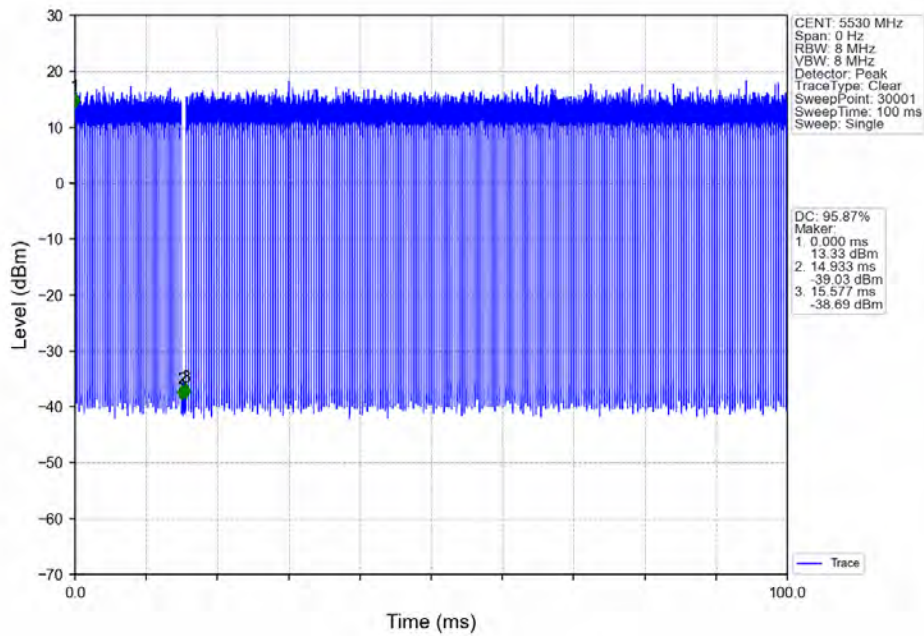
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802.11ac(VHT80) MCH 5290MHz Ant7 NTN



802.11ac(VHT80) LCH 5530MHz Ant7 NTN

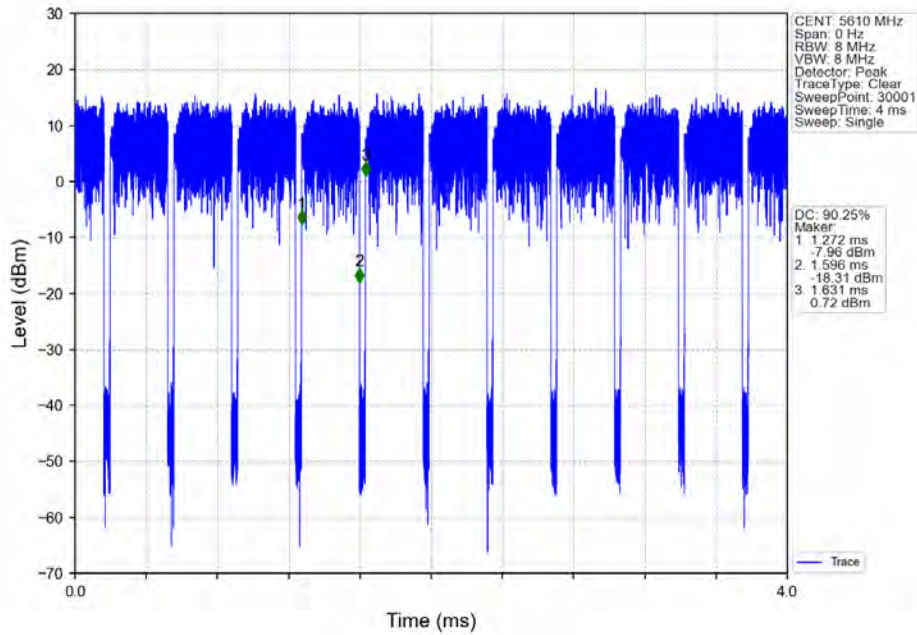


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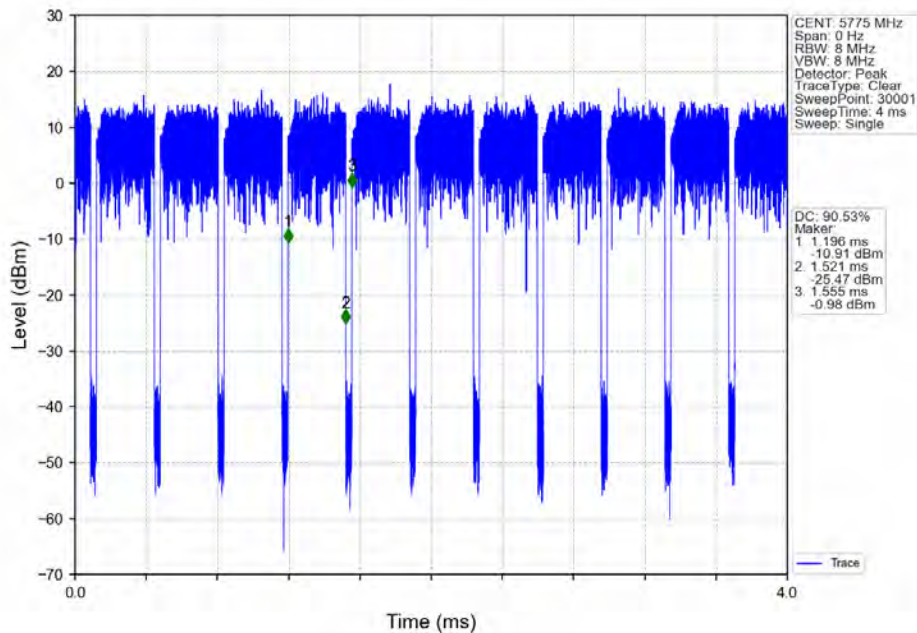
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802.11ac(VHT80) HCH 5610MHz Ant7 NTN



802.11ac(VHT80) MCH 5775MHz Ant7 NTN



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Bandwidth

Test Result

OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	7	17.310	/	Pass
		5200	7	17.380	/	Pass
		5240	7	17.290	/	Pass
		5260	7	17.344	/	Pass
		5300	7	17.350	/	Pass
		5320	7	17.333	/	Pass
		5500	7	17.381	/	Pass
		5580	7	17.349	/	Pass
		5700	7	17.360	/	Pass
		5745	7	17.435	/	Pass
		5785	7	17.356	/	Pass
		5825	7	17.387	/	Pass
		802.11ac (VHT20)	SISO	5180	7	18.161
5200	7			18.175	/	Pass
5240	7			18.214	/	Pass
5260	7			18.251	/	Pass
5300	7			18.182	/	Pass
5320	7			18.227	/	Pass
5500	7			18.207	/	Pass
5580	7			18.219	/	Pass
5700	7			18.190	/	Pass
5745	7			18.162	/	Pass
5785	7			18.164	/	Pass
5825	7			18.240	/	Pass
802.11ac (VHT40)	SISO			5190	7	36.337
		5230	7	36.589	/	Pass
		5270	7	36.440	/	Pass
		5310	7	36.457	/	Pass
		5510	7	36.501	/	Pass
		5550	7	36.605	/	Pass
		5670	7	36.404	/	Pass
		5755	7	36.540	/	Pass
		5795	7	36.546	/	Pass
802.11ac (VHT80)	SISO	5210	7	75.468	/	Pass
		5290	7	75.483	/	Pass
		5530	7	75.325	/	Pass
		5610	7	75.560	/	Pass
		5775	7	75.364	/	Pass



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6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	7	15.166	>=0.5	Pass
		5785	7	15.152	>=0.5	Pass
		5825	7	15.157	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	7	15.166	>=0.5	Pass
		5785	7	15.155	>=0.5	Pass
		5825	7	15.157	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	7	35.157	>=0.5	Pass
		5795	7	35.149	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	7	75.129	>=0.5	Pass

26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	7	19.940	/	Pass
		5200	7	19.967	/	Pass
		5240	7	20.062	/	Pass
		5260	7	19.879	/	Pass
		5300	7	19.840	/	Pass
		5320	7	20.113	/	Pass
		5500	7	19.869	/	Pass
		5580	7	19.822	/	Pass
802.11ac (VHT20)	SISO	5180	7	20.270	/	Pass
		5200	7	20.301	/	Pass
		5240	7	20.266	/	Pass
		5260	7	20.253	/	Pass
		5300	7	20.347	/	Pass
		5320	7	20.328	/	Pass
		5500	7	20.166	/	Pass
		5580	7	20.237	/	Pass
802.11ac (VHT40)	SISO	5190	7	40.447	/	Pass
		5230	7	40.889	/	Pass
		5270	7	40.518	/	Pass
		5310	7	40.620	/	Pass
		5510	7	40.399	/	Pass
		5550	7	40.690	/	Pass
		5670	7	40.693	/	Pass
802.11ac (VHT80)	SISO	5210	7	80.890	/	Pass
		5290	7	81.236	/	Pass
		5530	7	80.669	/	Pass
		5610	7	80.851	/	Pass



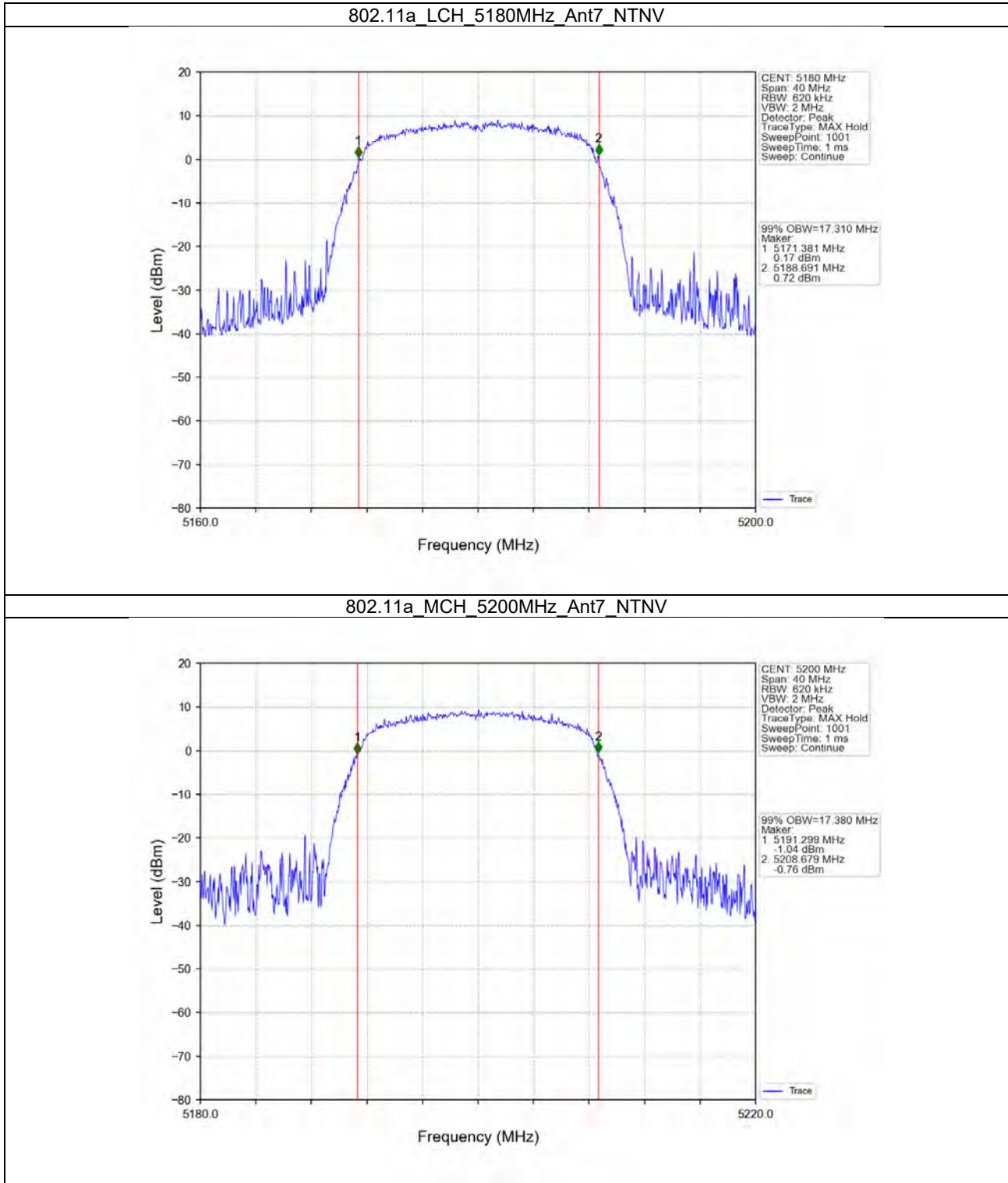
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Test Graph

OBW

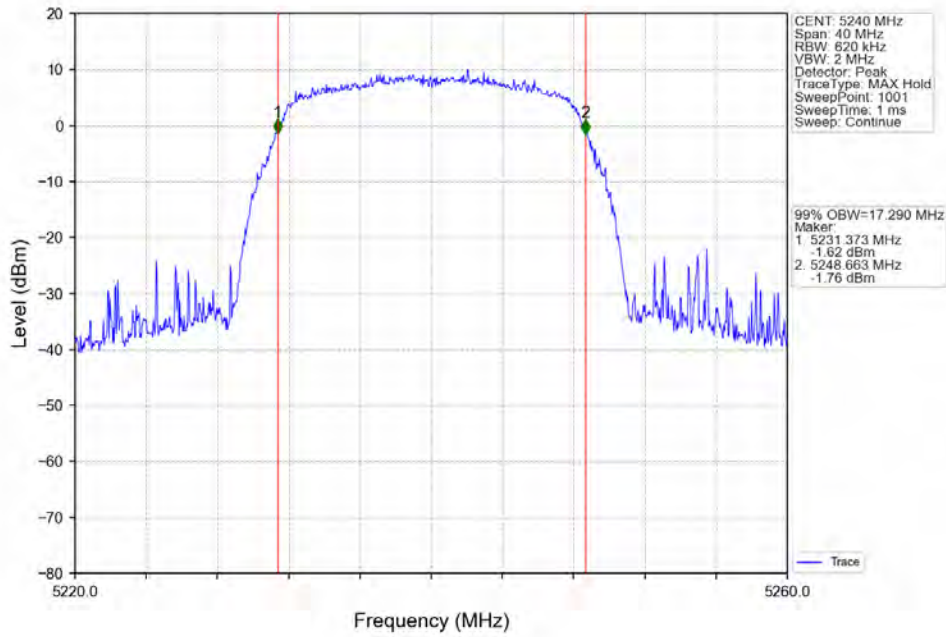


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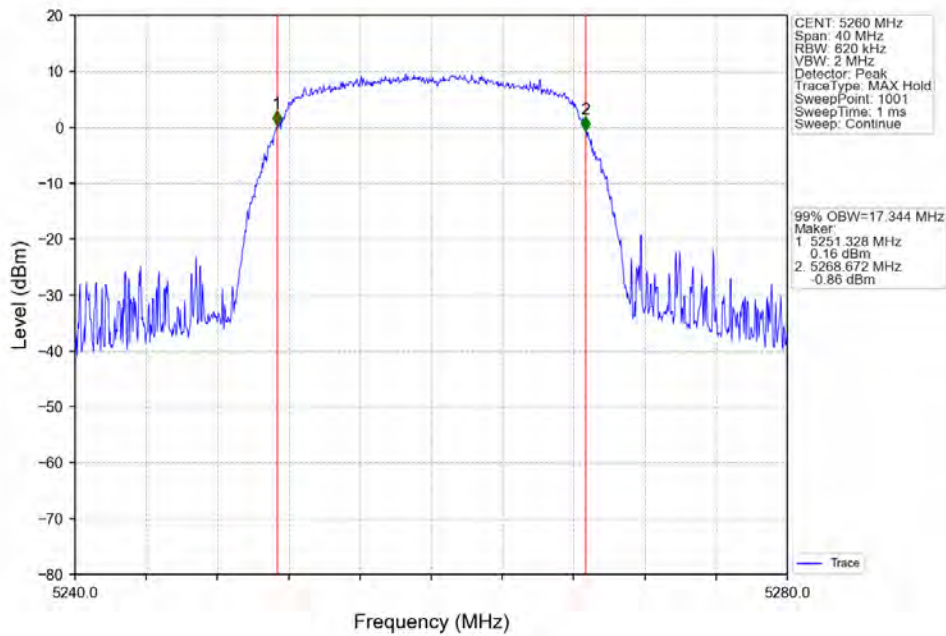
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802.11a\_HCH\_5240MHz\_Ant7\_NTNV



802.11a\_LCH\_5260MHz\_Ant7\_NTNV

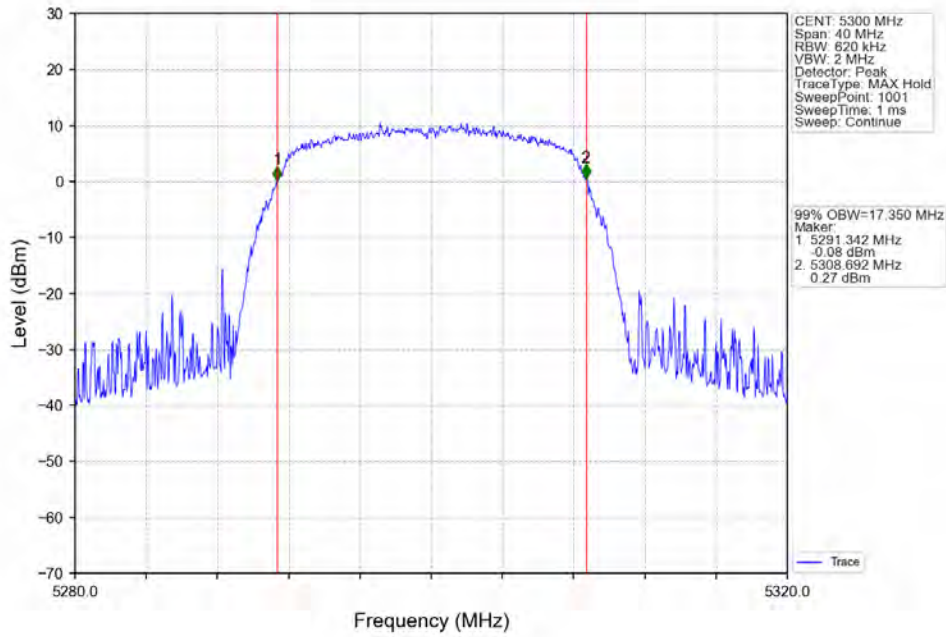


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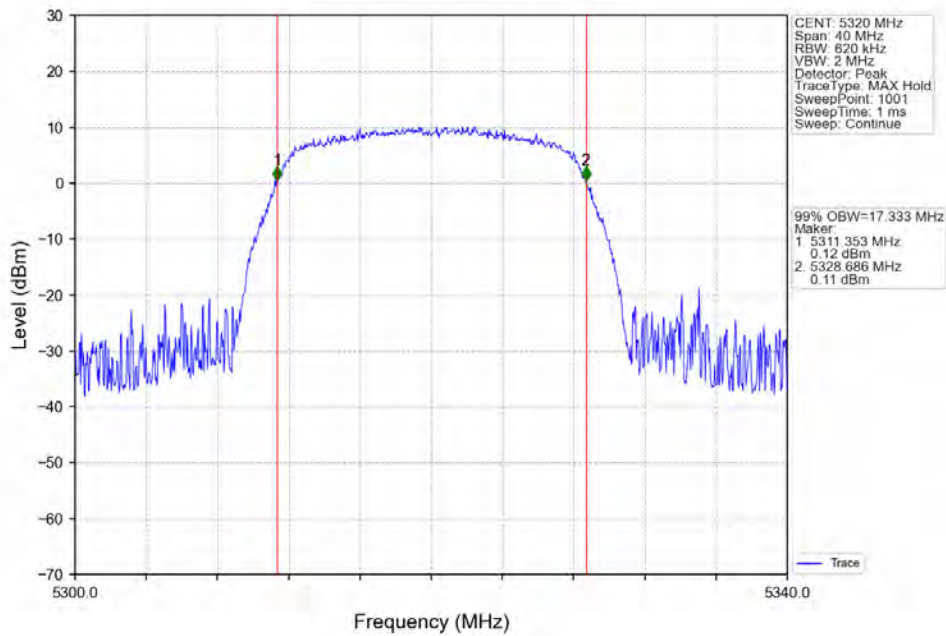
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802.11a MCH 5300MHz Ant7 NTN



802.11a HCH 5320MHz Ant7 NTN



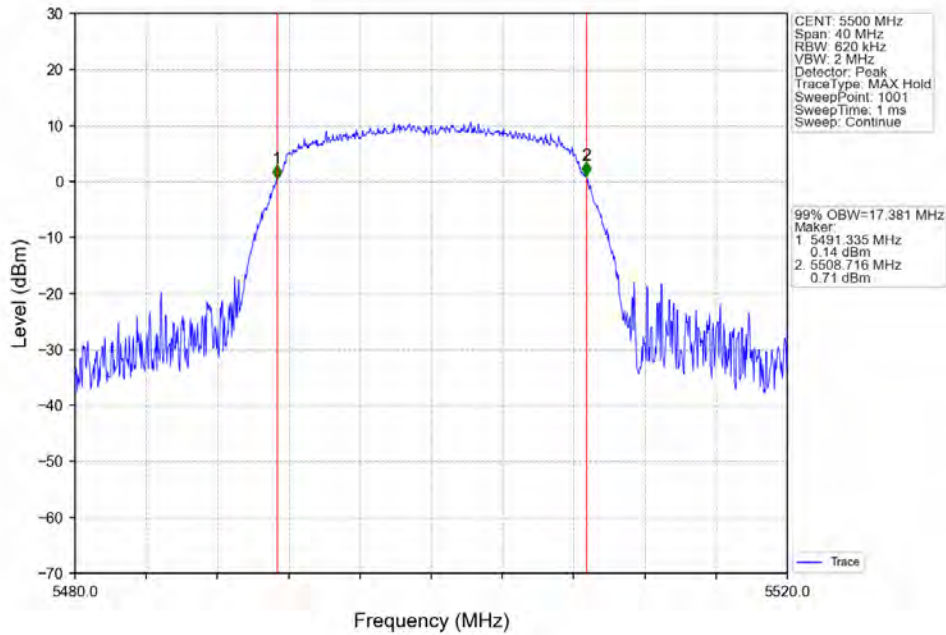
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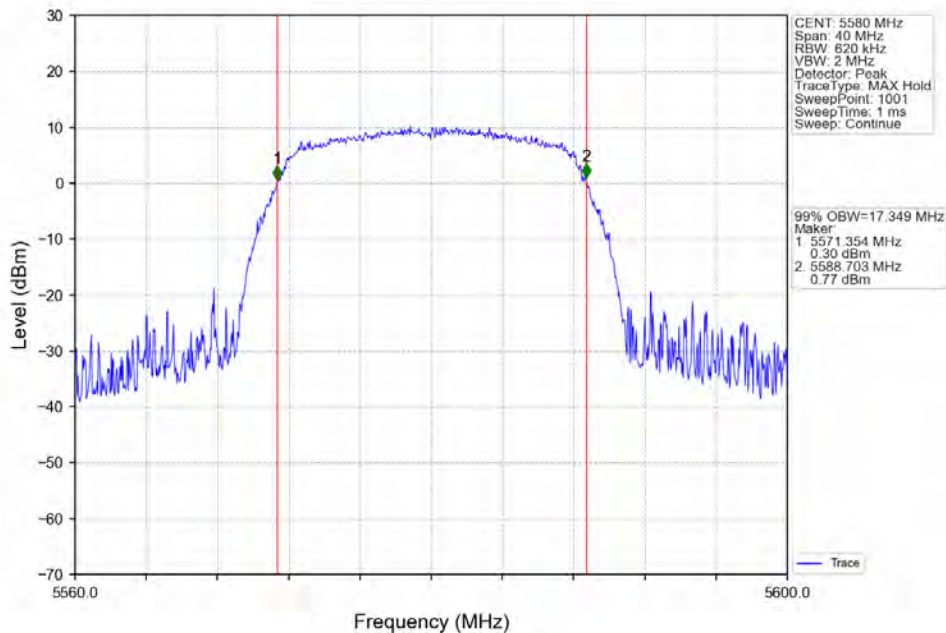
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802.11a LCH 5500MHz Ant7 NTVN



802.11a MCH 5580MHz Ant7 NTVN

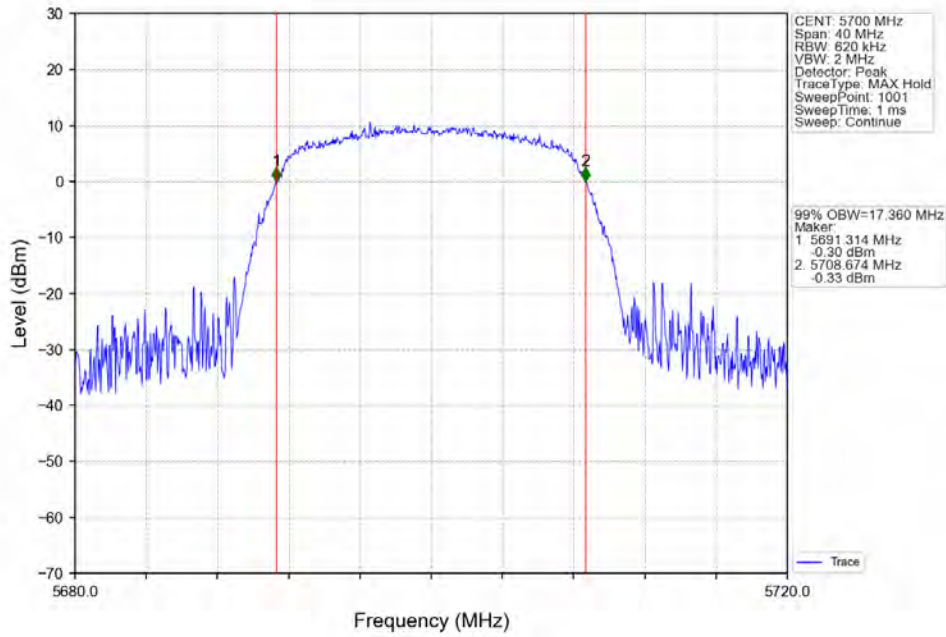


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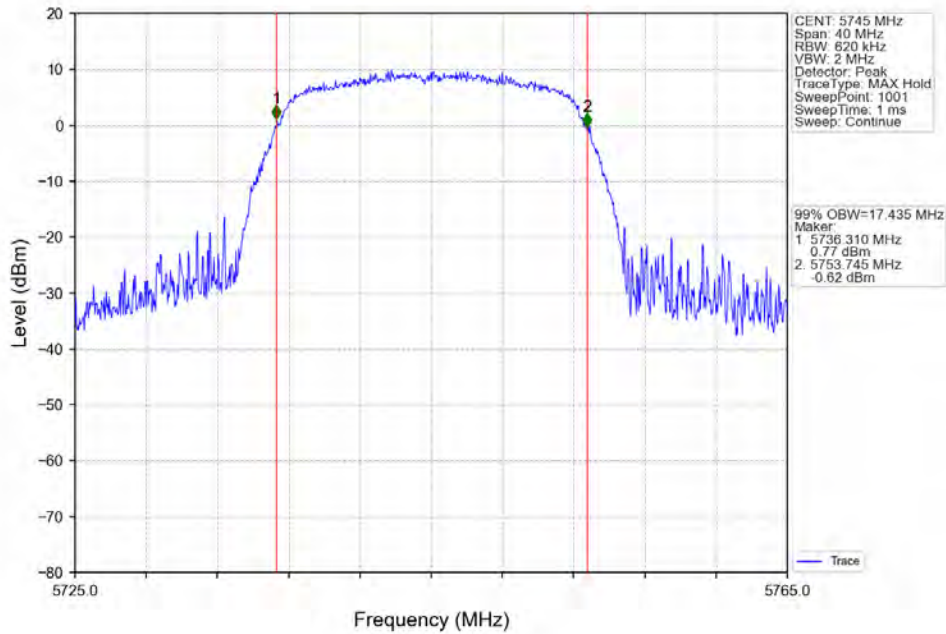
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802.11a\_HCH\_5700MHz\_Ant7\_NTNV



802.11a\_LCH\_5745MHz\_Ant7\_NTNV

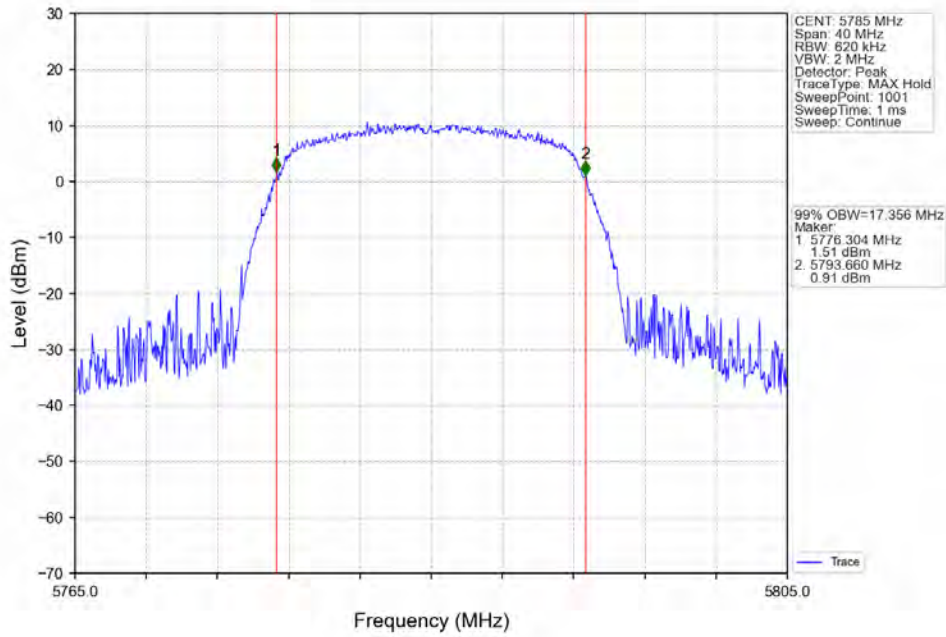


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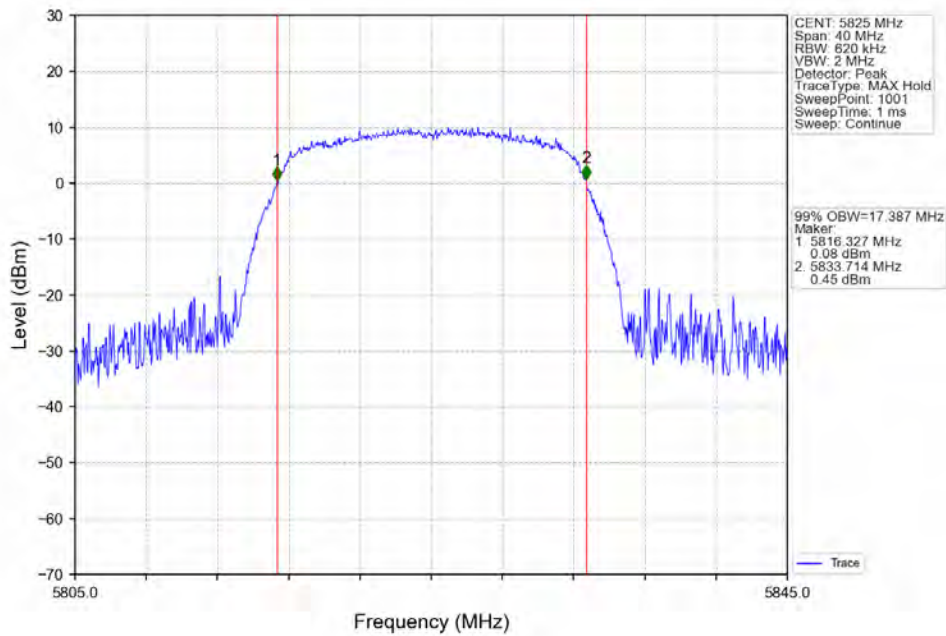
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802.11a MCH 5785MHz Ant7 NTVN



802.11a HCH 5825MHz Ant7 NTVN

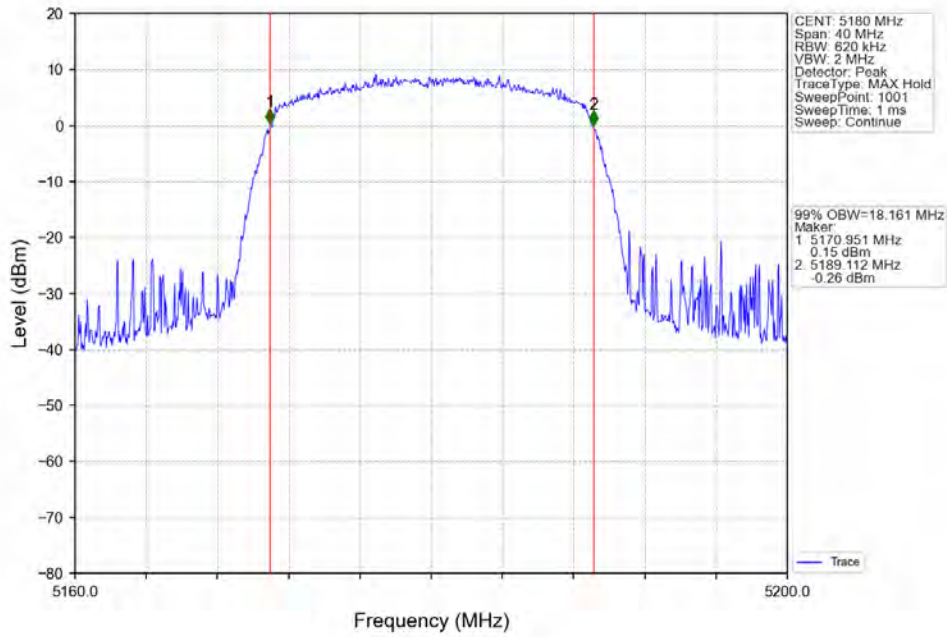


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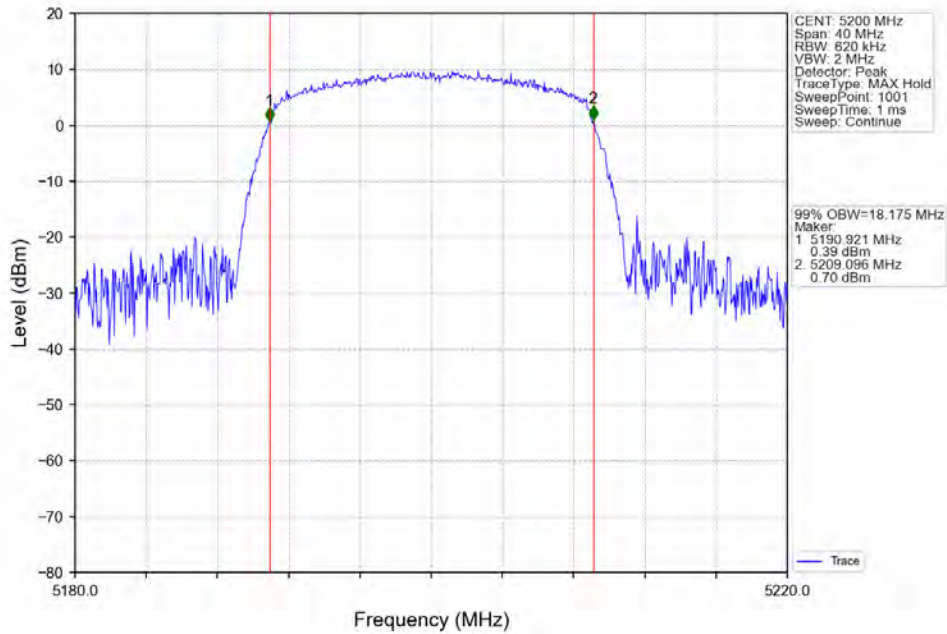
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802.11ac(VHT20) LCH 5180MHz Ant7 NTN



802.11ac(VHT20) MCH 5200MHz Ant7 NTN

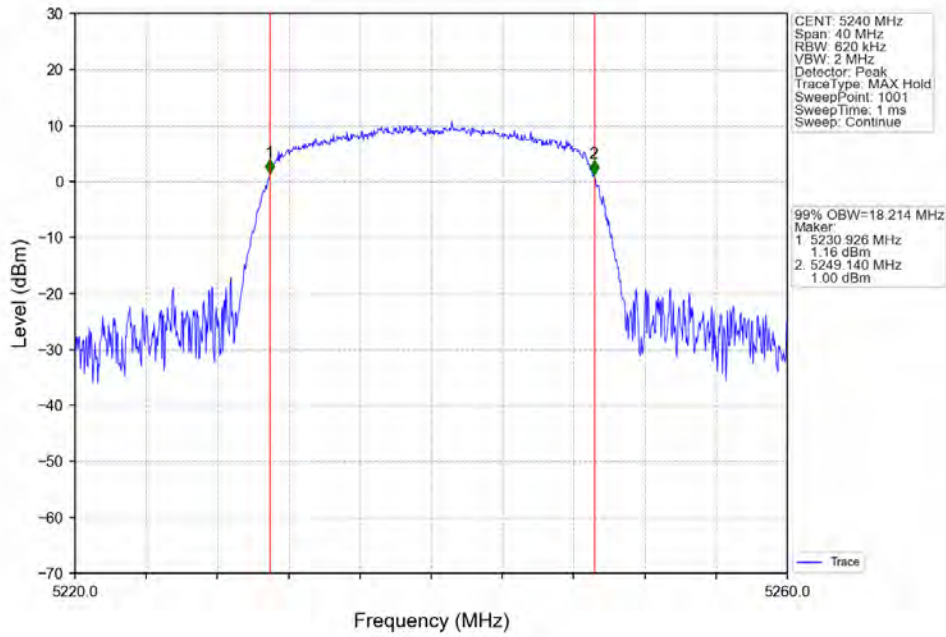


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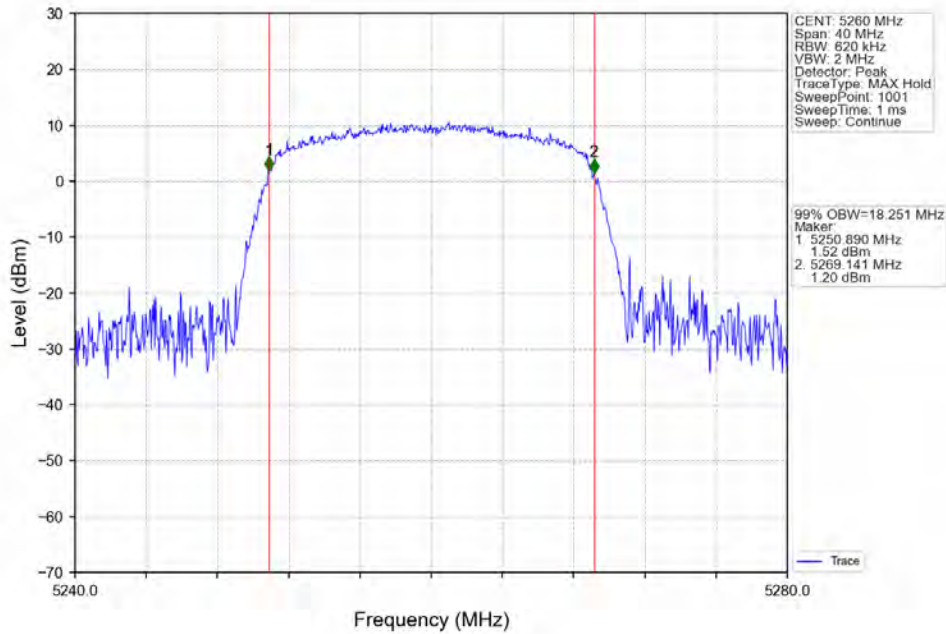
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802.11ac(VHT20) HCH 5240MHz Ant7 NTN



802.11ac(VHT20) LCH 5260MHz Ant7 NTN

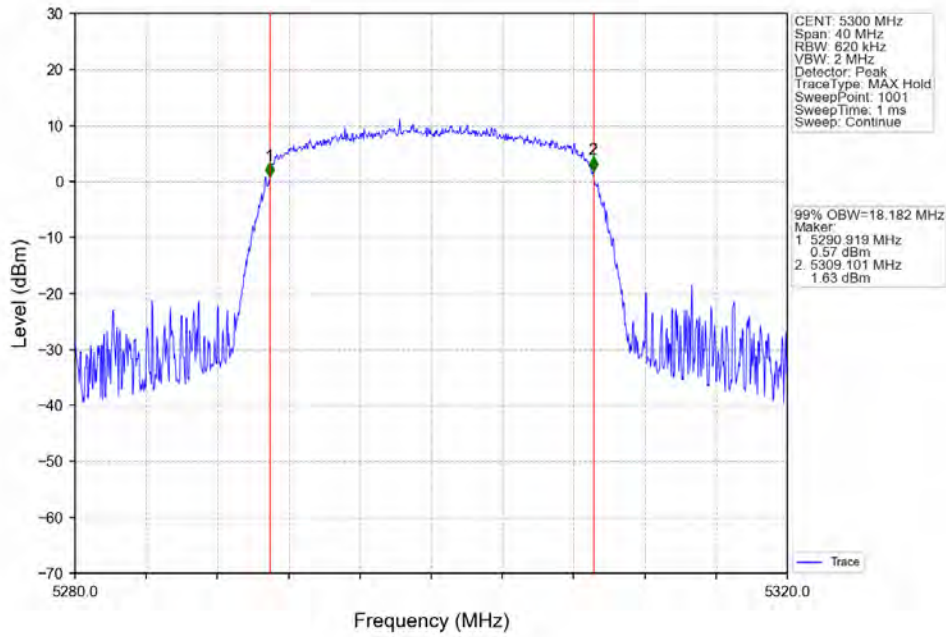


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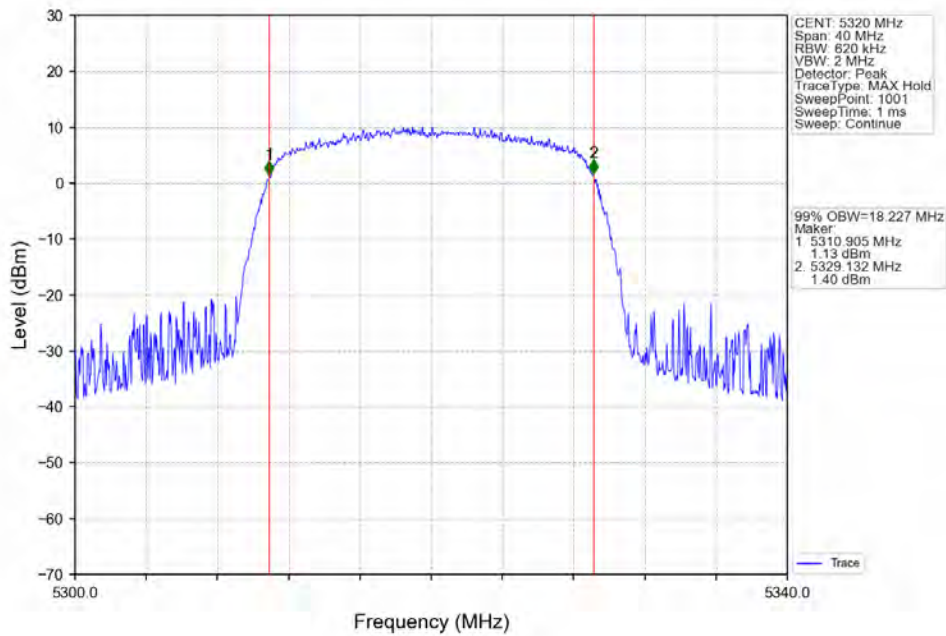
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802.11ac(VHT20) MCH 5300MHz Ant7 NTN



802.11ac(VHT20) HCH 5320MHz Ant7 NTN

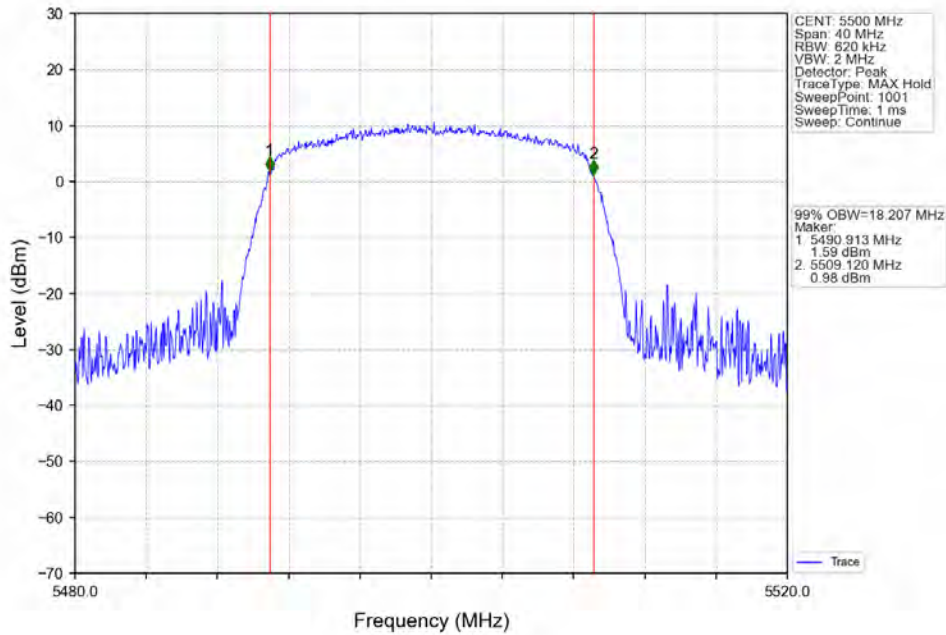


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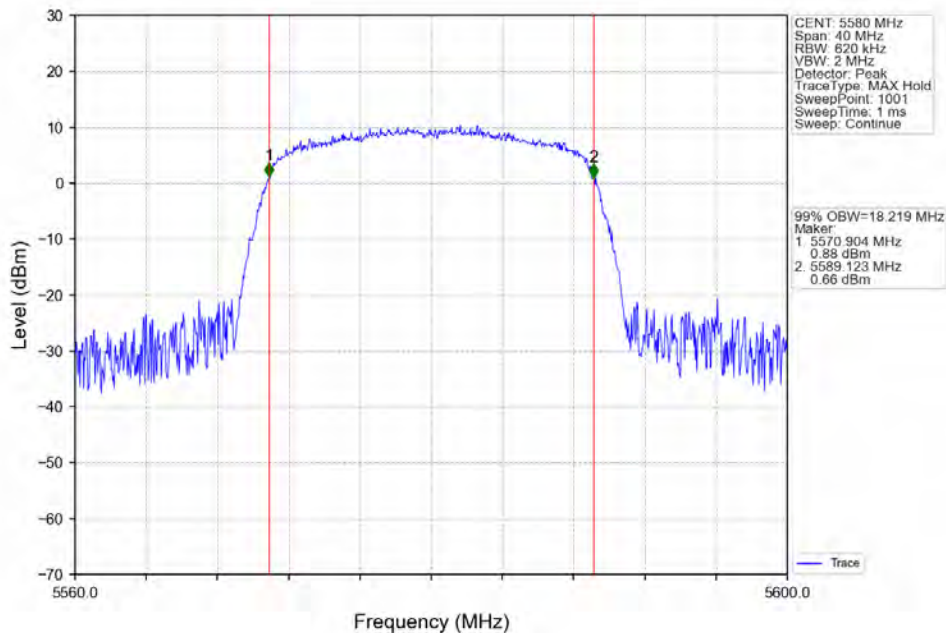
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802.11ac(VHT20) LCH 5500MHz Ant7 NTN



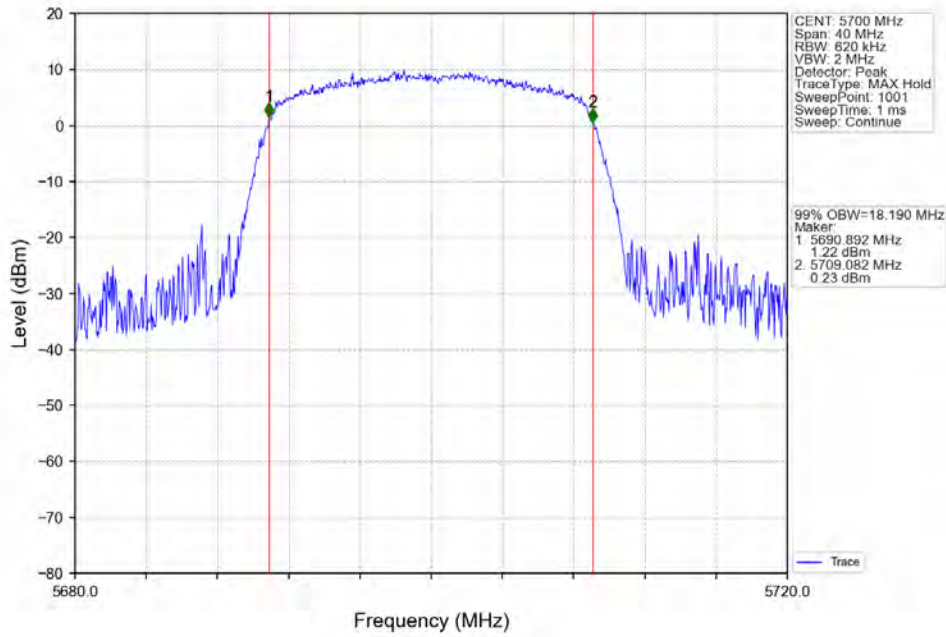
802.11ac(VHT20) MCH 5580MHz Ant7 NTN



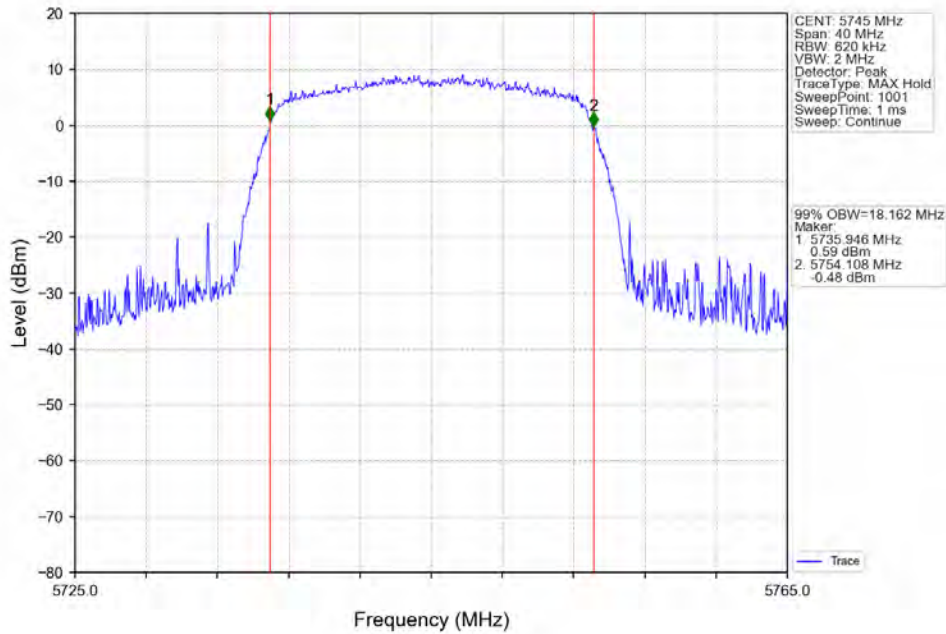
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802.11ac(VHT20) HCH 5700MHz Ant7 NTN



802.11ac(VHT20) LCH 5745MHz Ant7 NTN



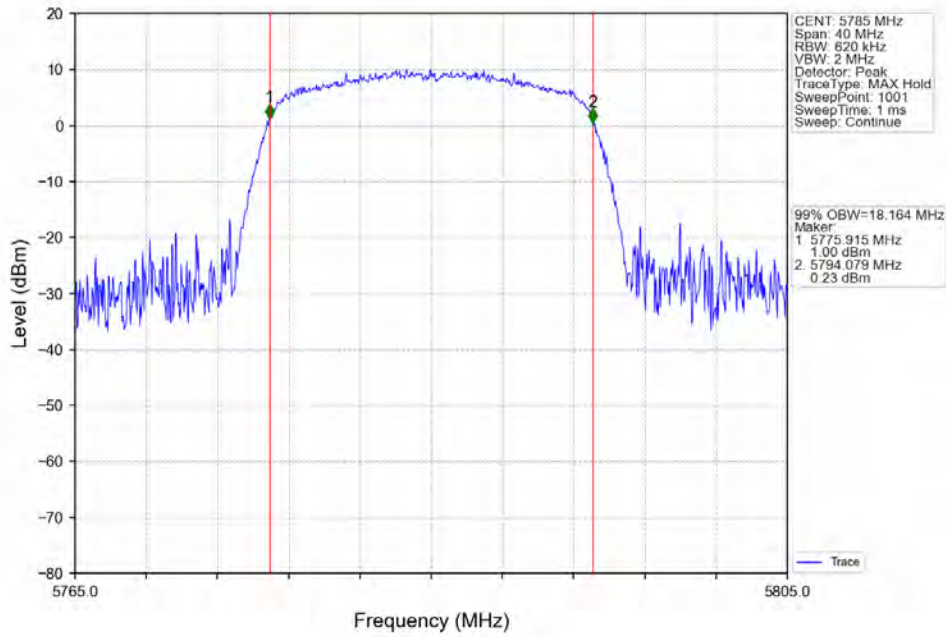
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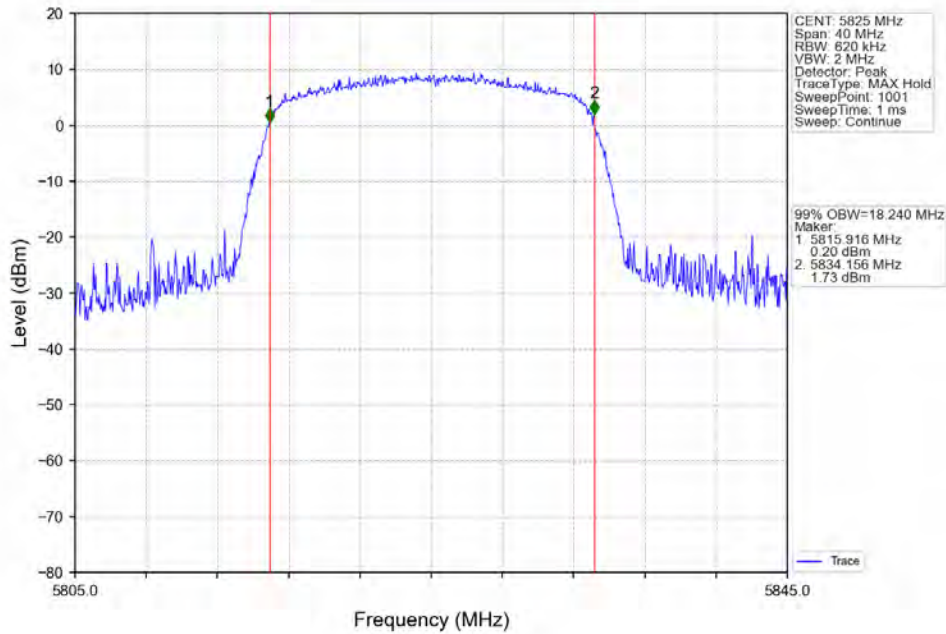
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802.11ac(VHT20) MCH 5785MHz Ant7 NTN



802.11ac(VHT20) HCH 5825MHz Ant7 NTN

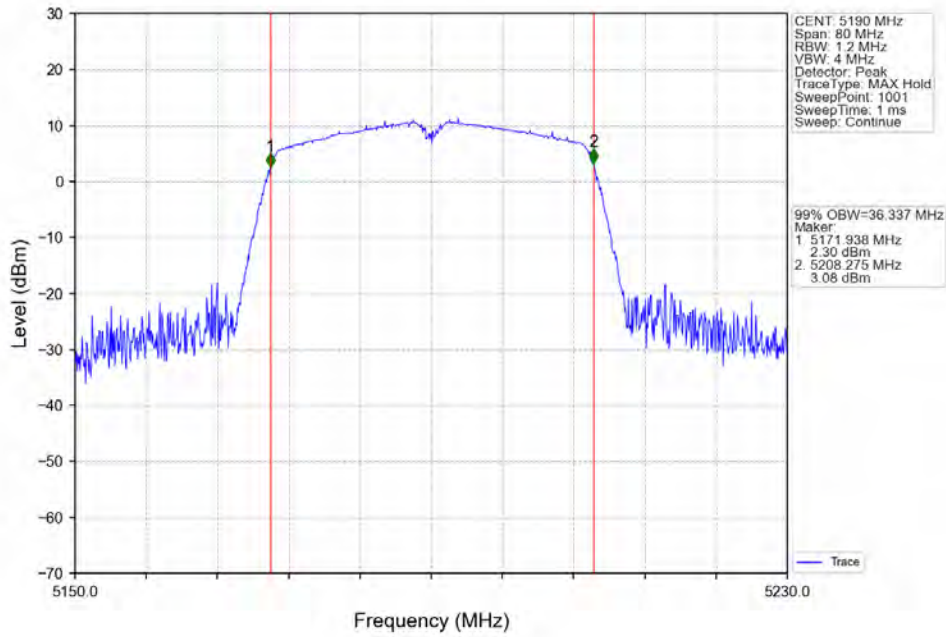


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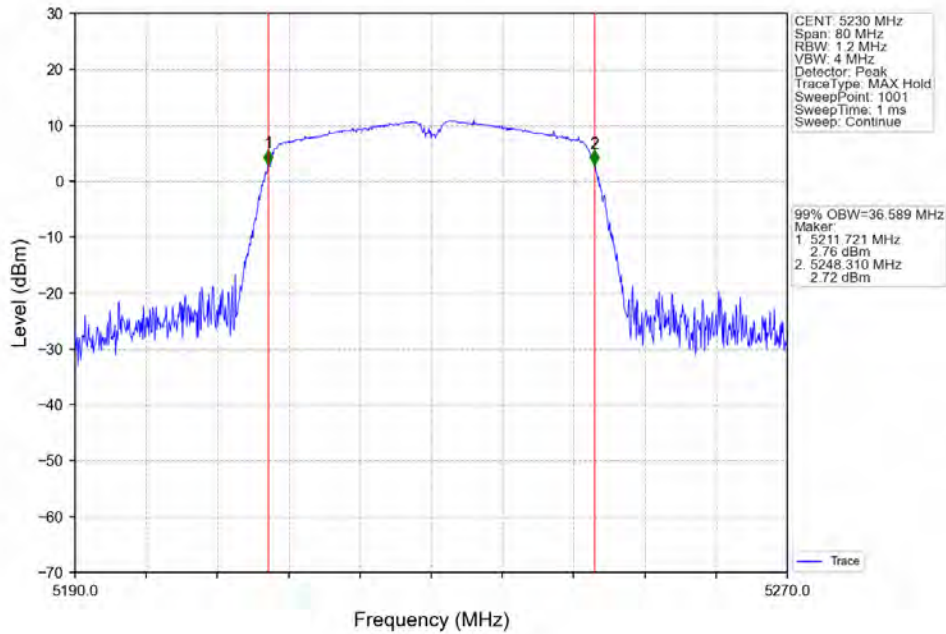
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802.11ac(VHT40) LCH 5190MHz Ant7\_NTNV



802.11ac(VHT40) HCH 5230MHz Ant7\_NTNV

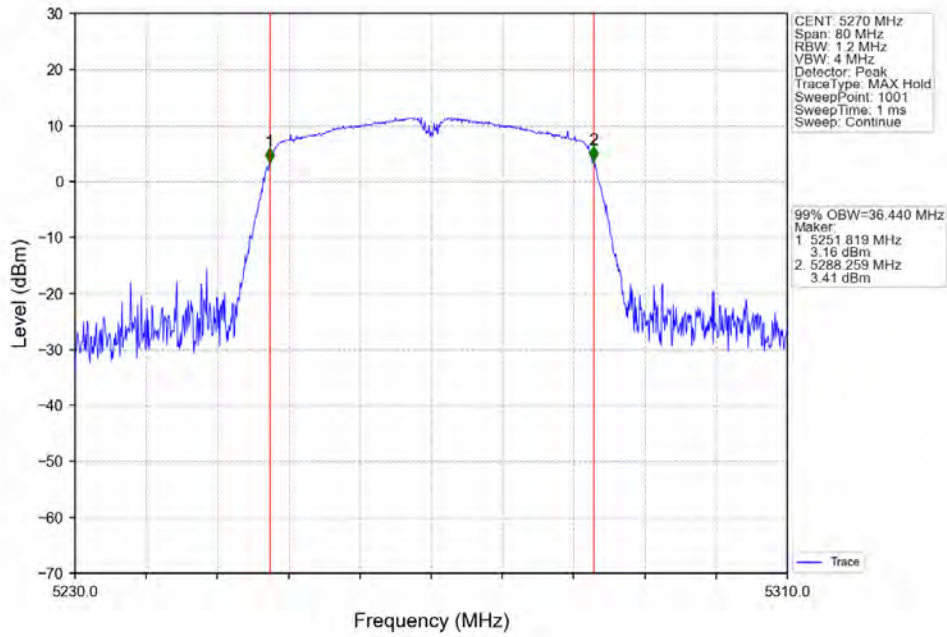


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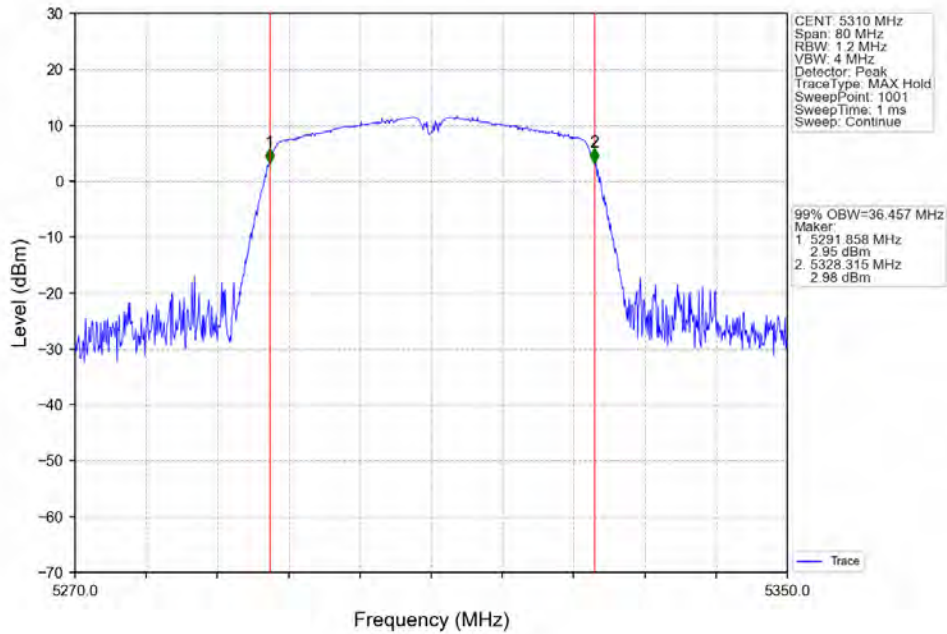
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802.11ac(VHT40) LCH 5270MHz Ant7\_NTNV



802.11ac(VHT40) HCH 5310MHz Ant7\_NTNV

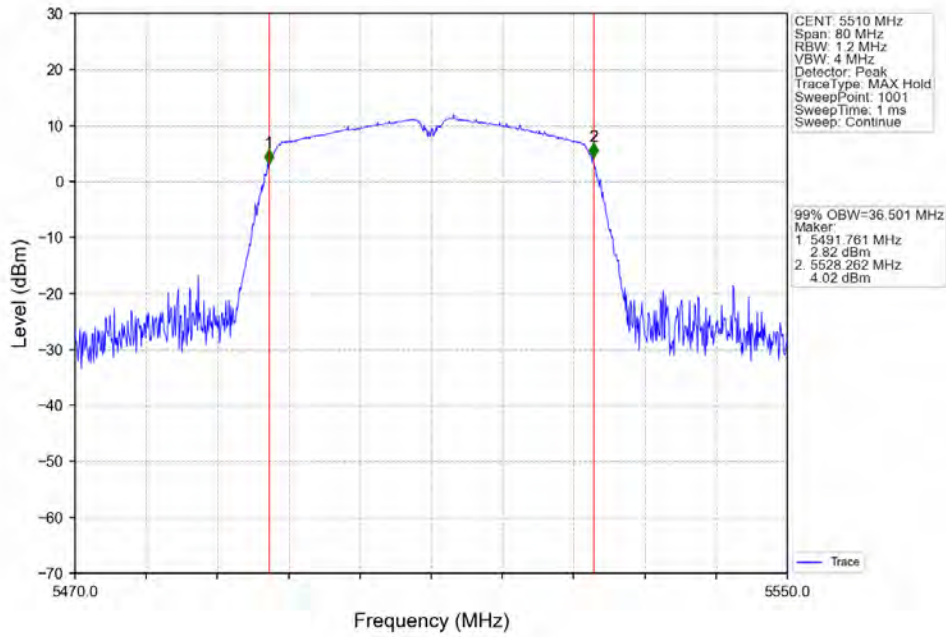


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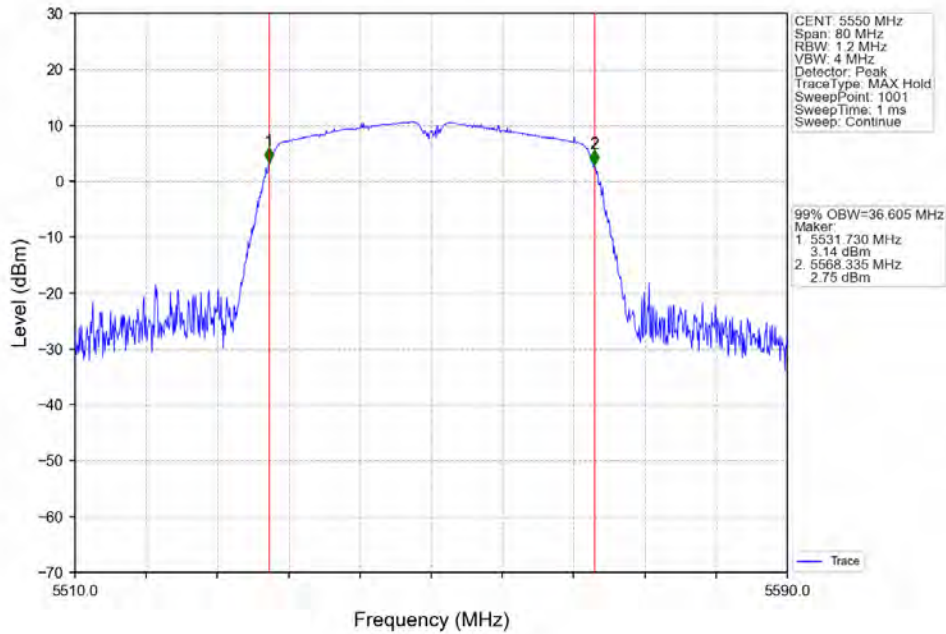
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802.11ac(VHT40) LCH 5510MHz Ant7 NTN



802.11ac(VHT40) MCH 5550MHz Ant7 NTN

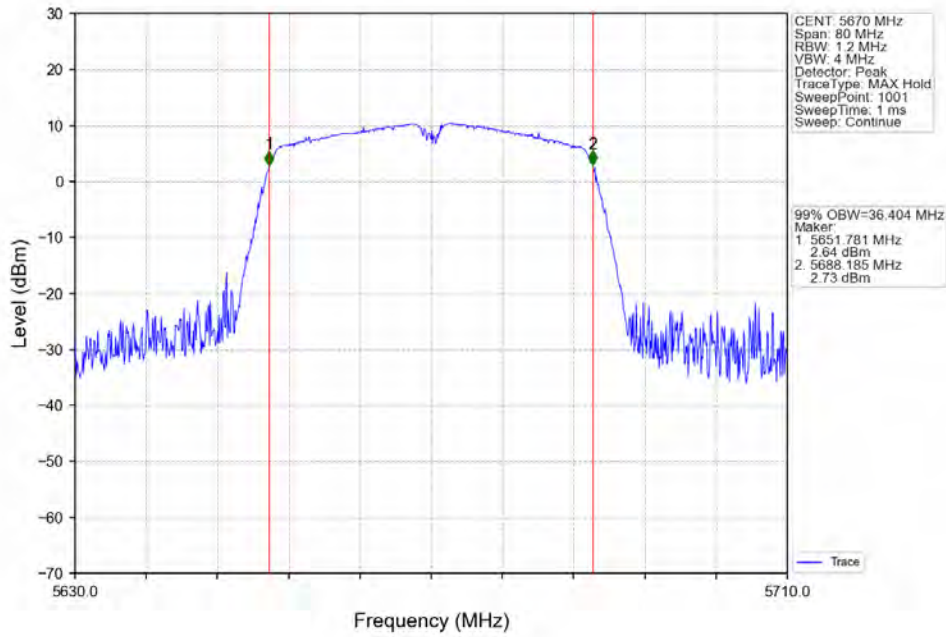


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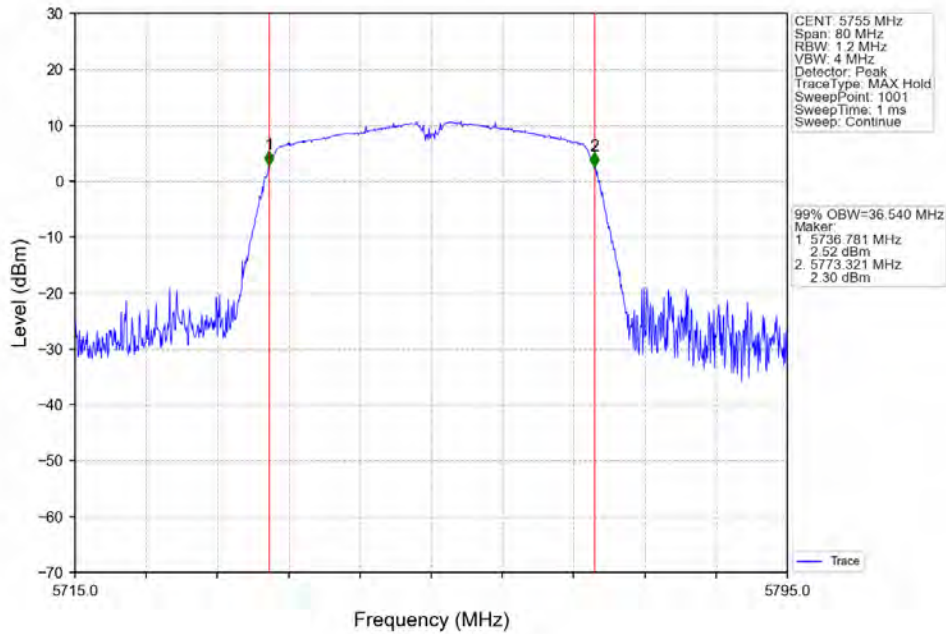
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802.11ac(VHT40) HCH 5670MHz Ant7 NTN



802.11ac(VHT40) LCH 5755MHz Ant7 NTN

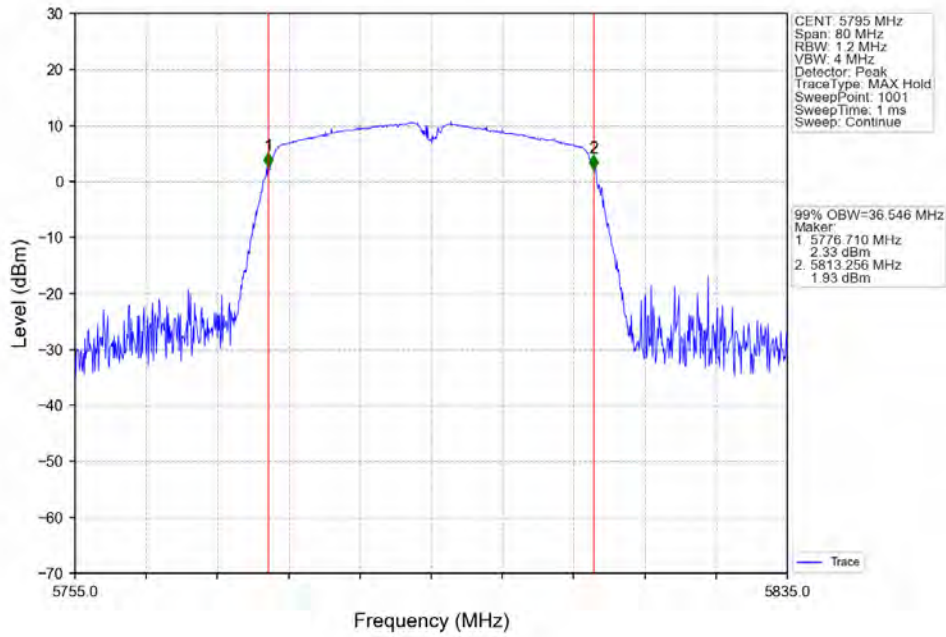


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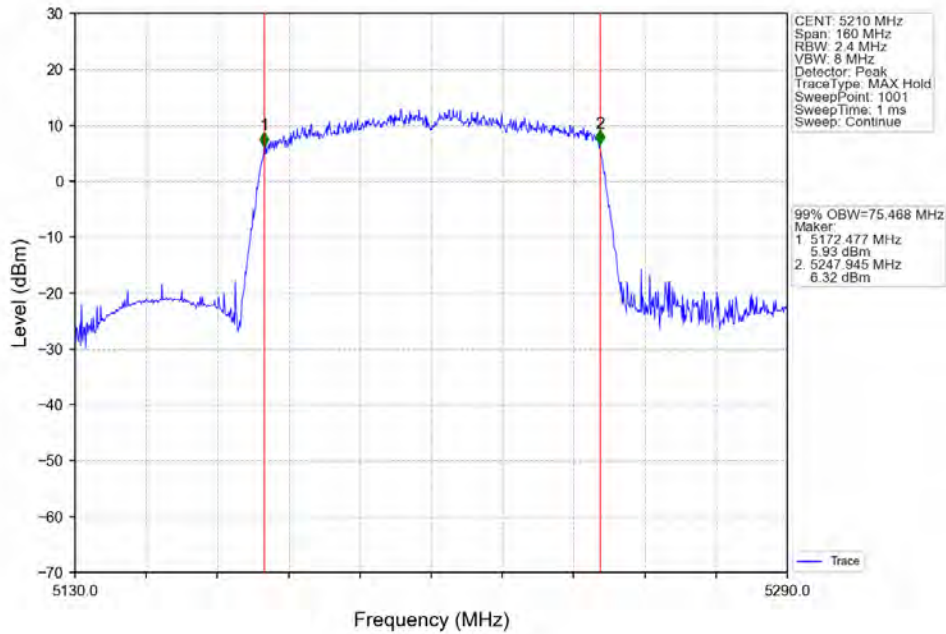
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802.11ac(VHT40) HCH 5795MHz Ant7 NTN



802.11ac(VHT80) MCH 5210MHz Ant7 NTN

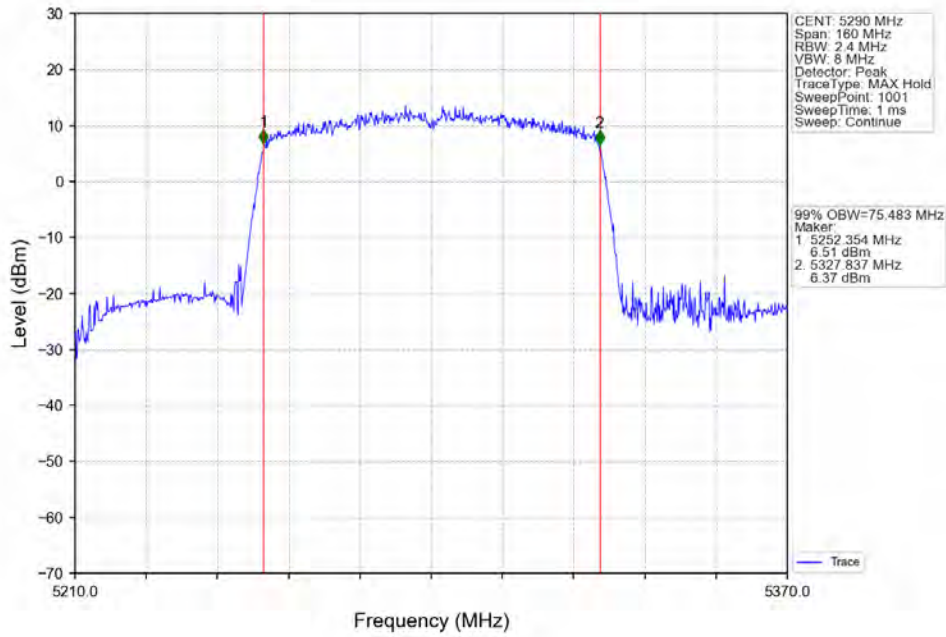


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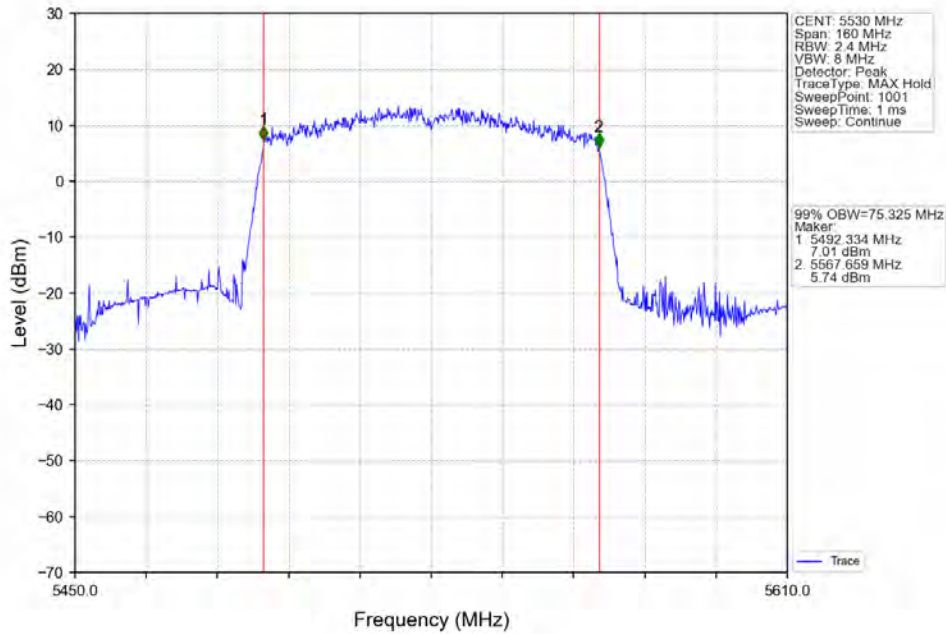
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802.11ac(VHT80) MCH 5290MHz Ant7 NTN



802.11ac(VHT80) LCH 5530MHz Ant7 NTN

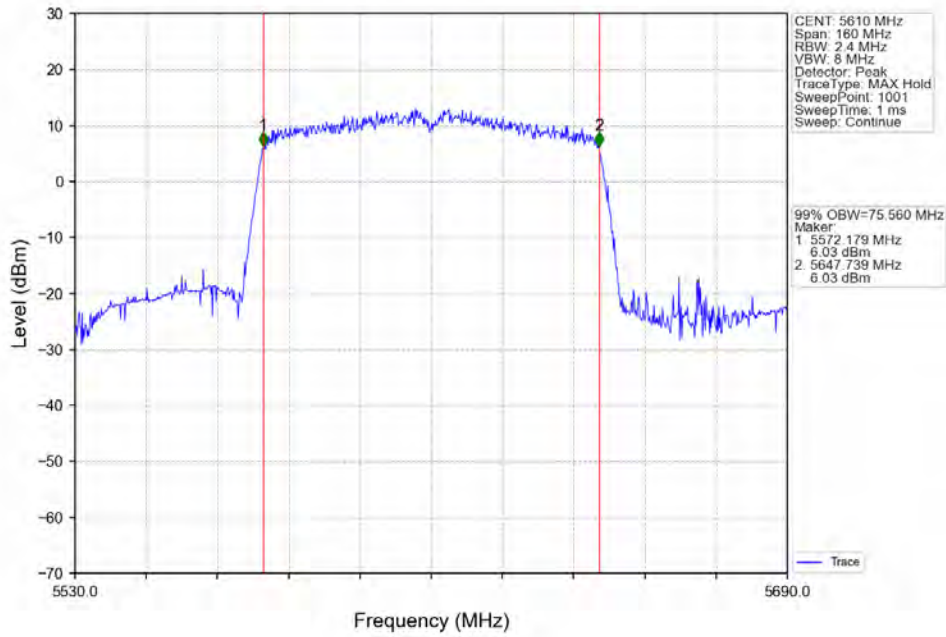


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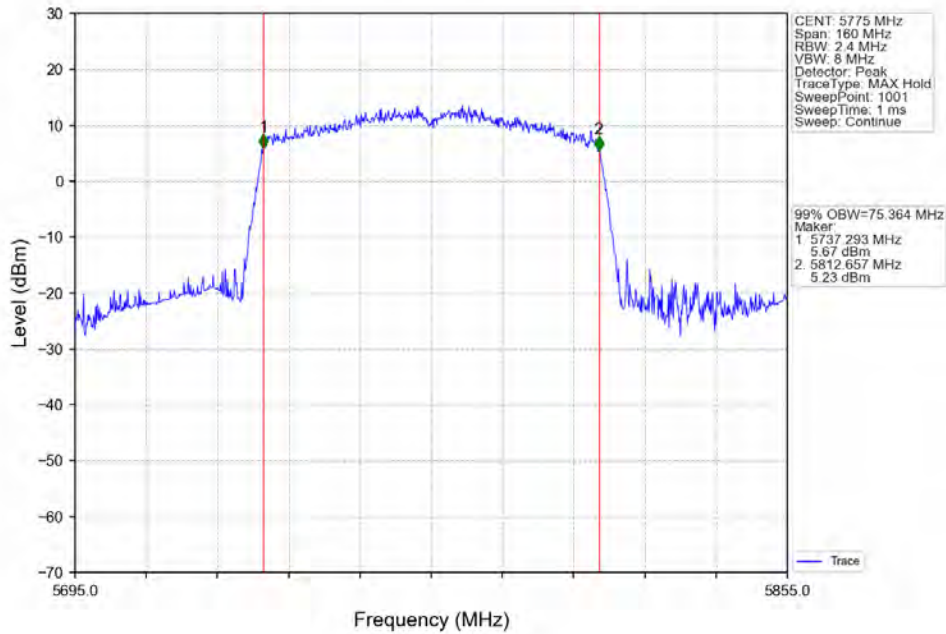
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802.11ac(VHT80) HCH 5610MHz Ant7 NTN



802.11ac(VHT80) MCH 5775MHz Ant7 NTN



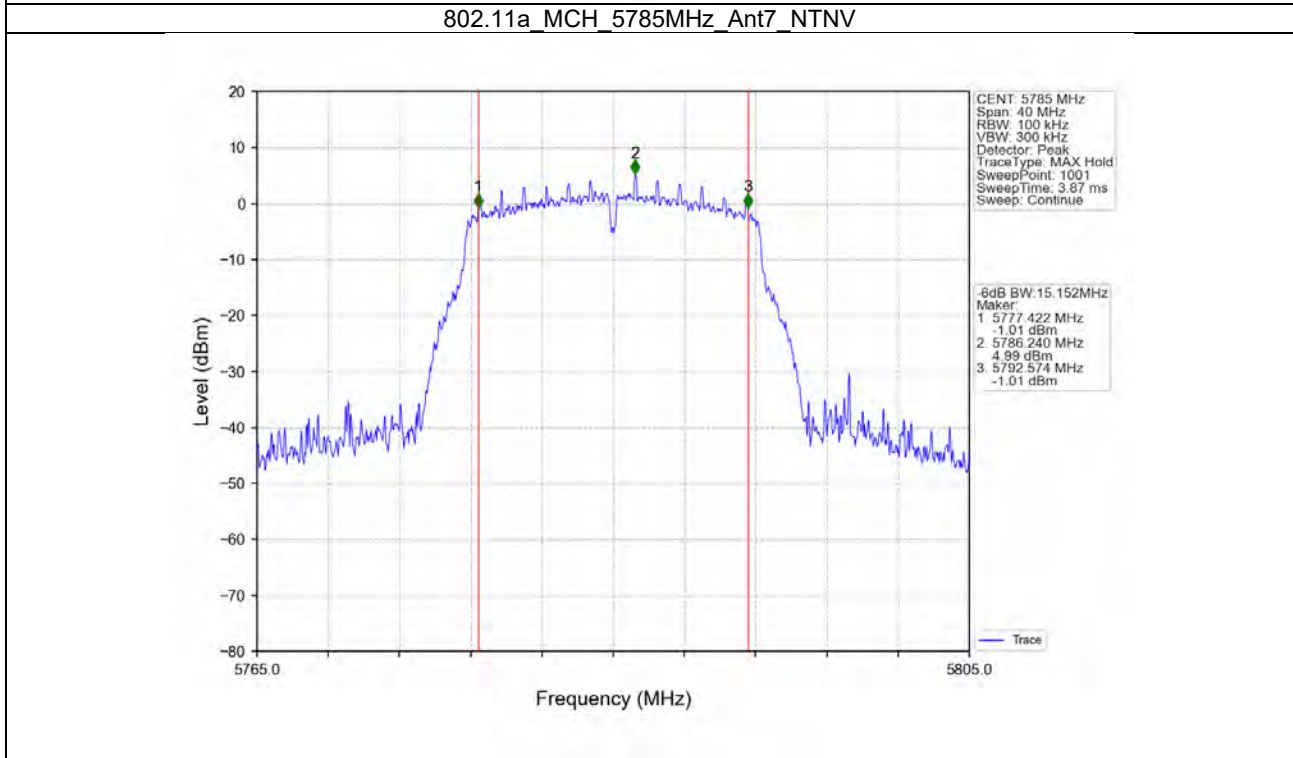
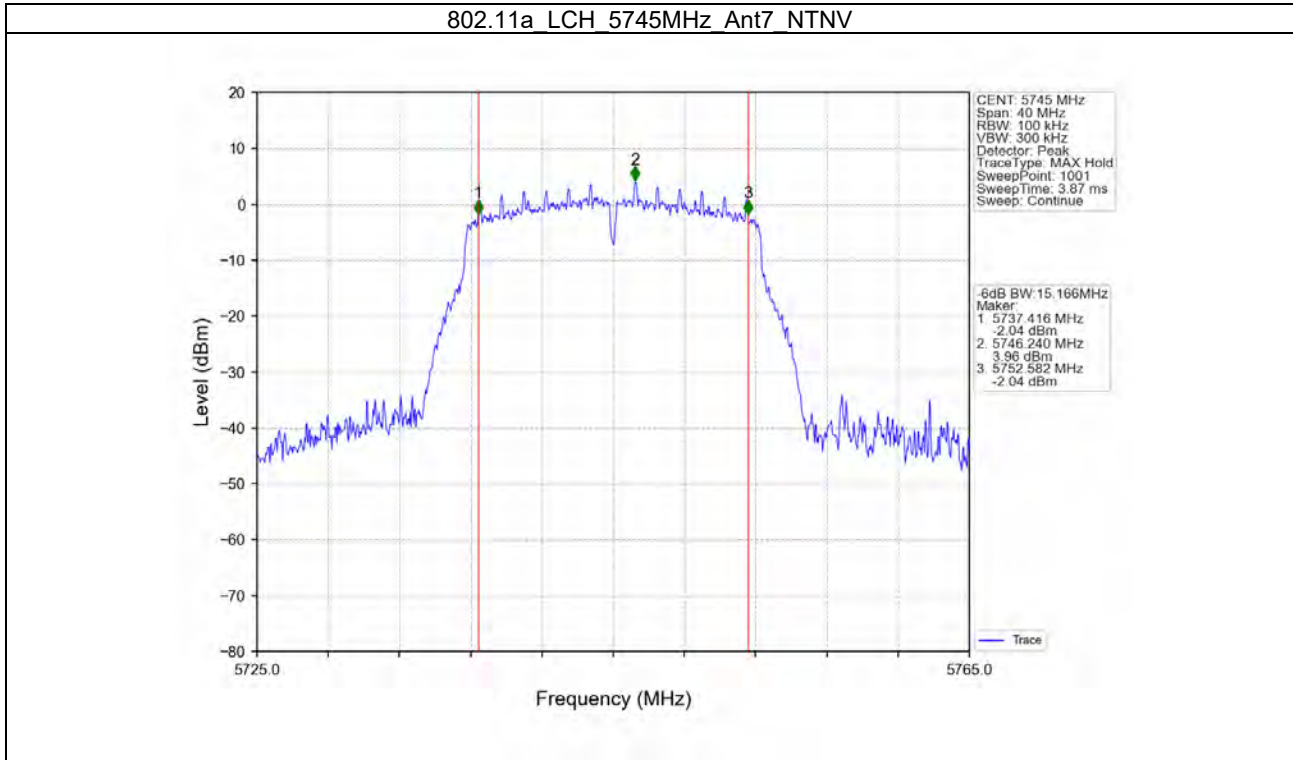
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6dB BW



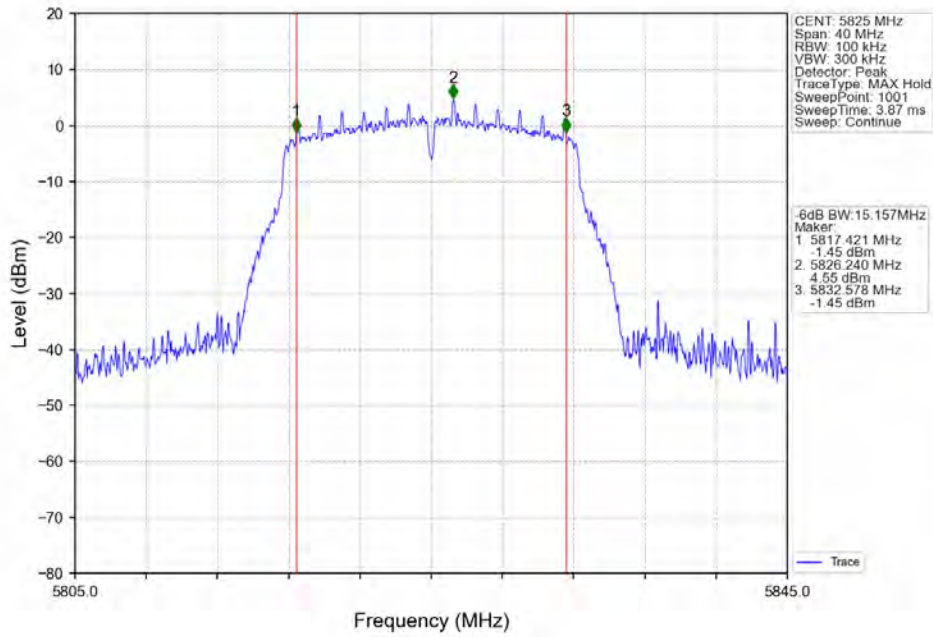
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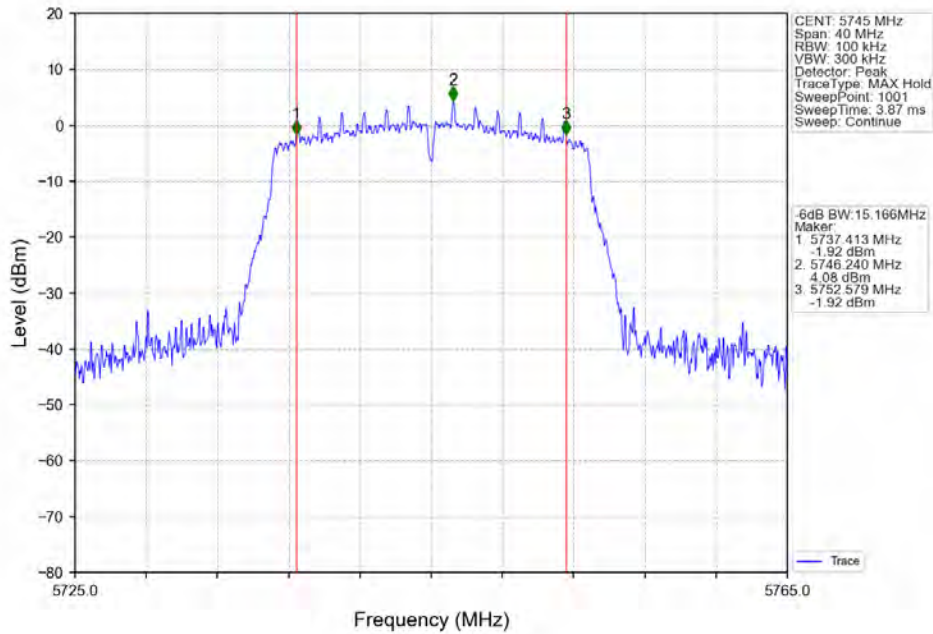
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802.11a\_HCH\_5825MHz\_Ant7\_NTNV



802.11ac(VHT20)\_LCH\_5745MHz\_Ant7\_NTNV

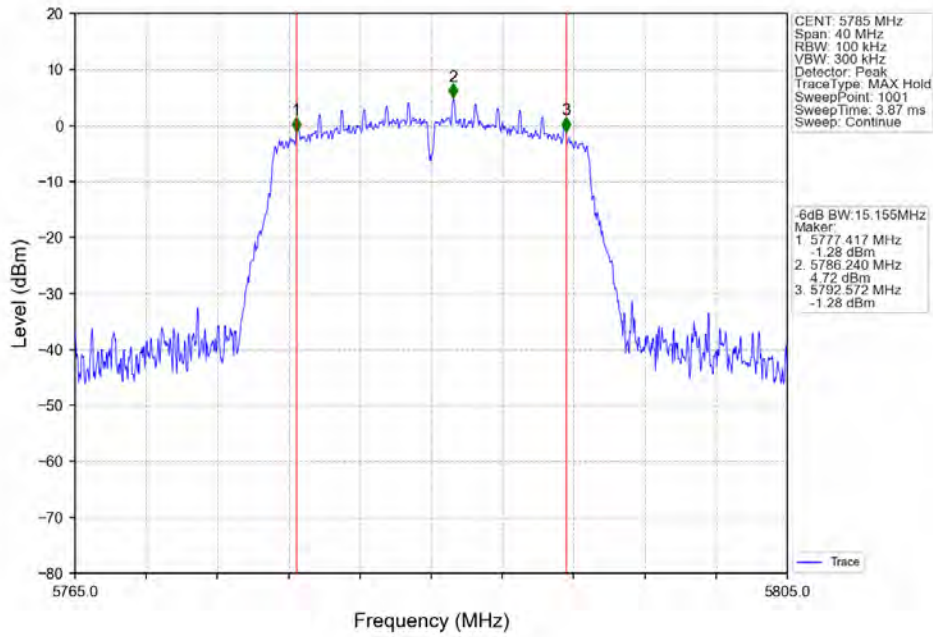


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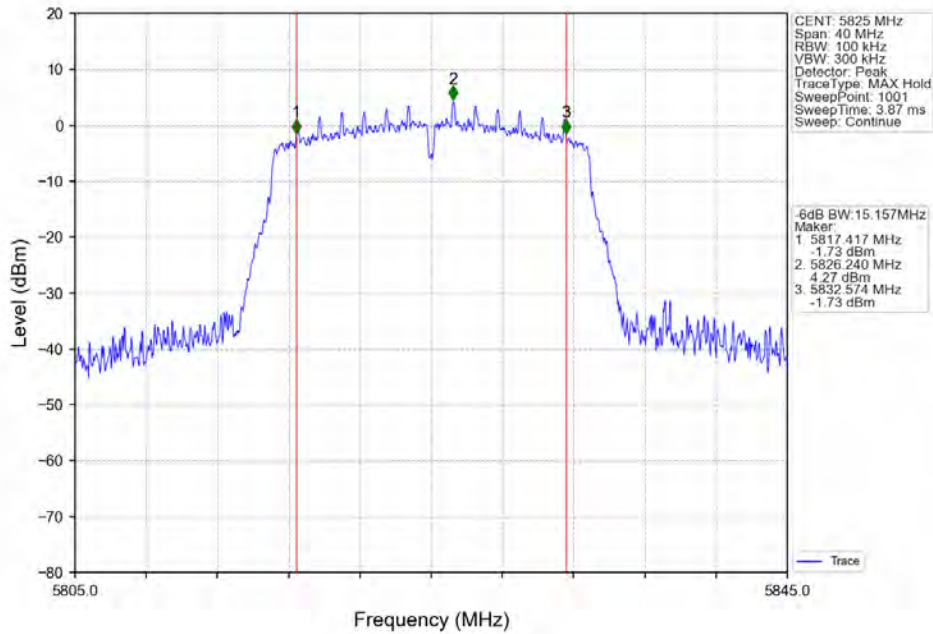
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802.11ac(VHT20) MCH 5785MHz Ant7 NTN



802.11ac(VHT20) HCH 5825MHz Ant7 NTN

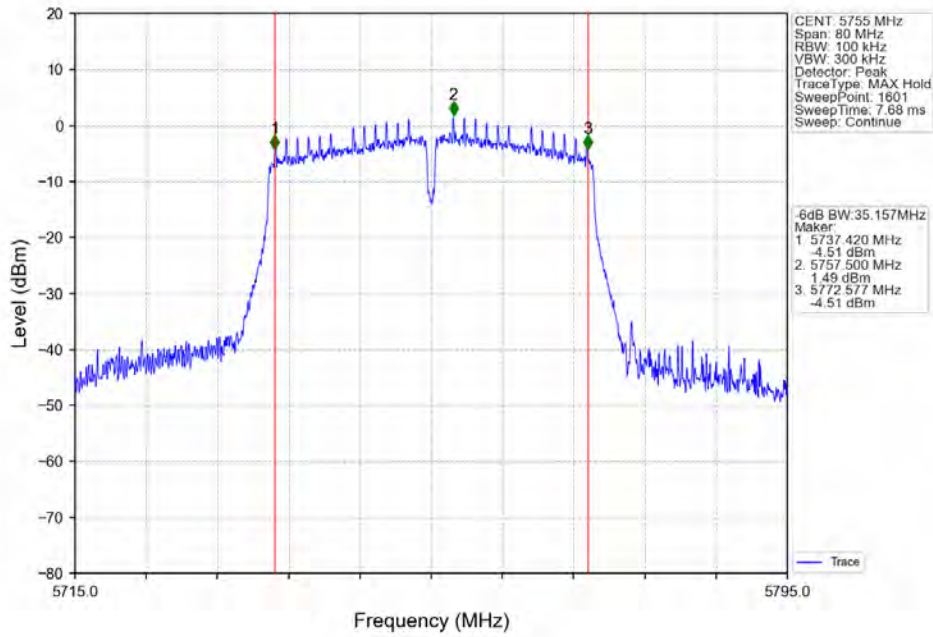


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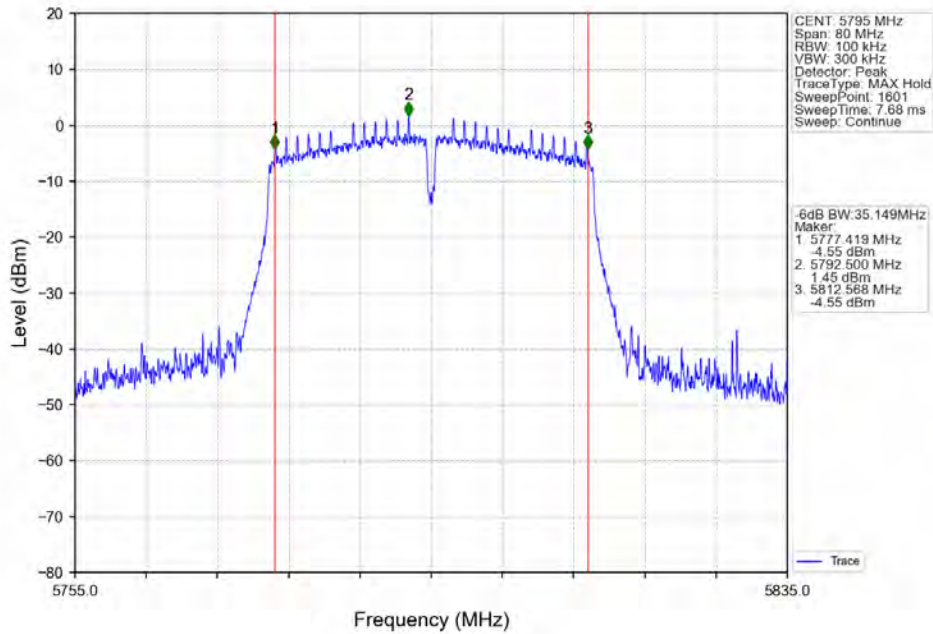
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802.11ac(VHT40) LCH 5755MHz Ant7 NTN



802.11ac(VHT40) HCH 5795MHz Ant7 NTN

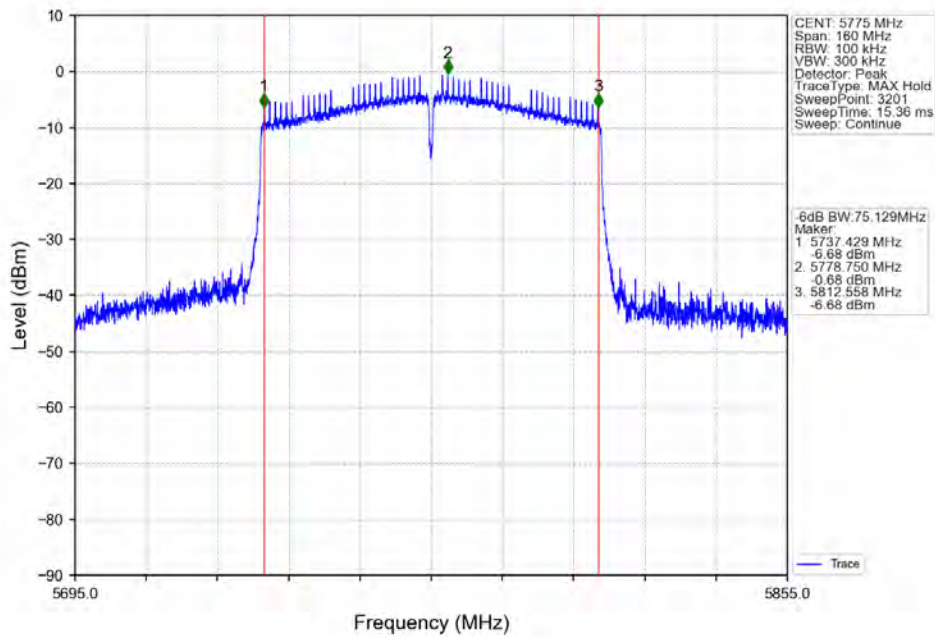


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802.11ac(VHT80) MCH\_5775MHz\_Ant7\_NTNV



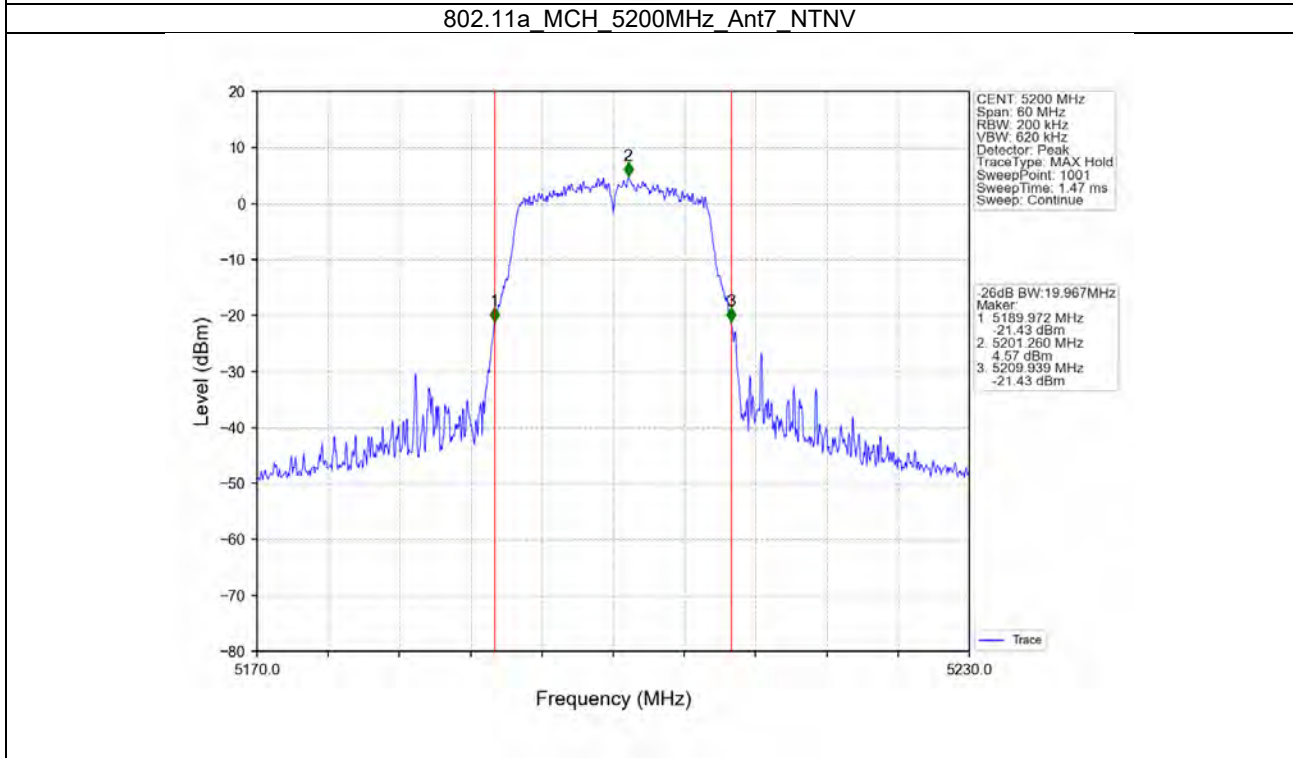
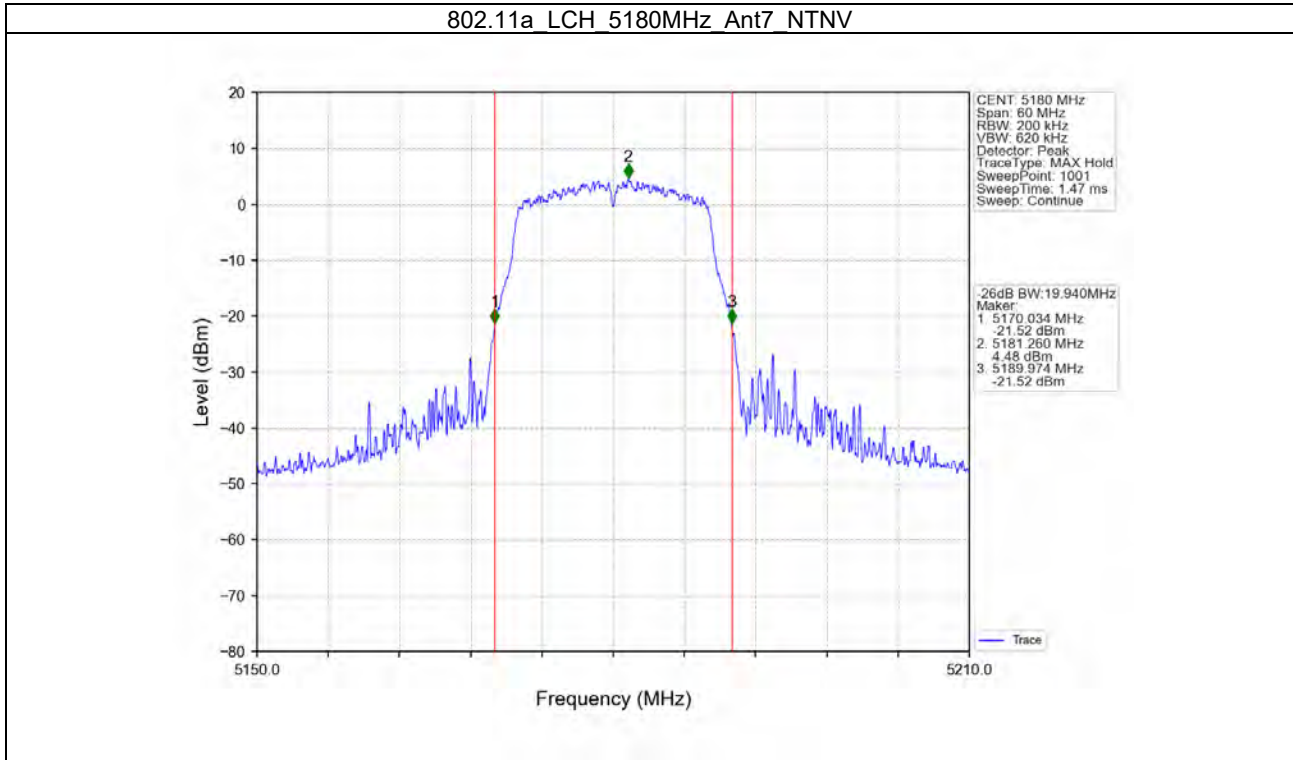
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26dB BW



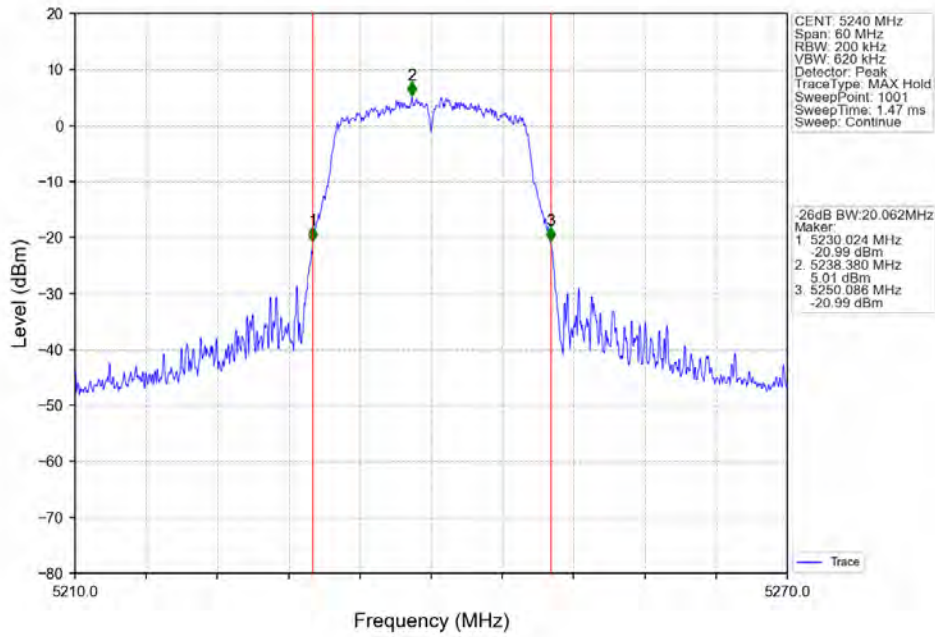
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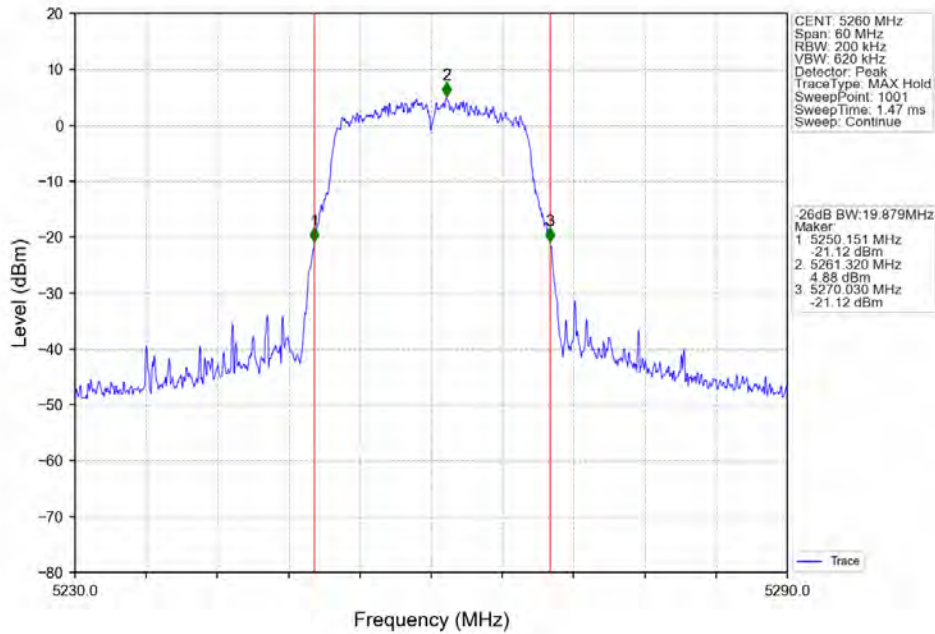
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802.11a\_HCH\_5240MHz\_Ant7\_NTNV



802.11a\_LCH\_5260MHz\_Ant7\_NTNV

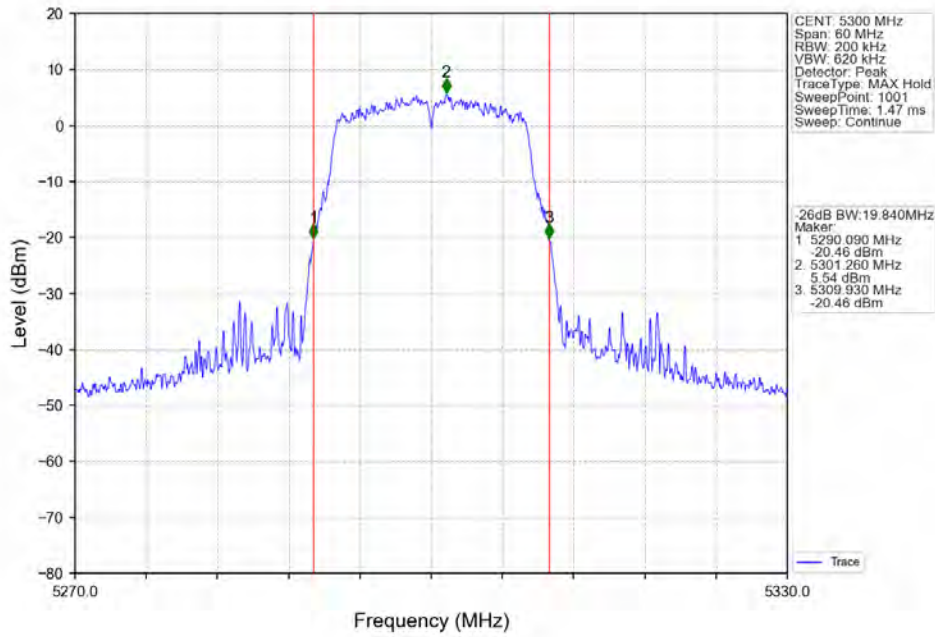


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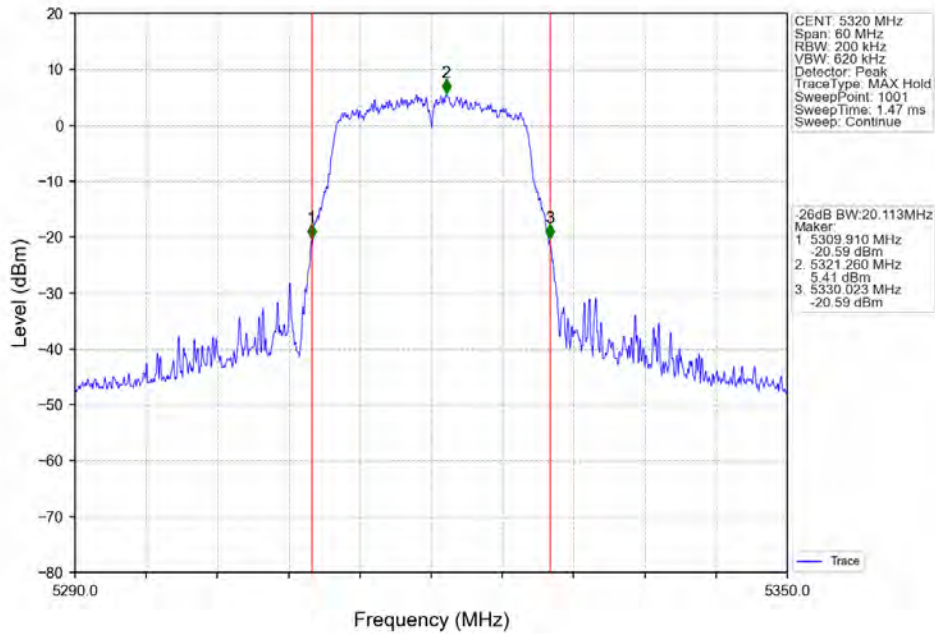
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802.11a MCH 5300MHz Ant7 NTNV



802.11a HCH 5320MHz Ant7 NTNV



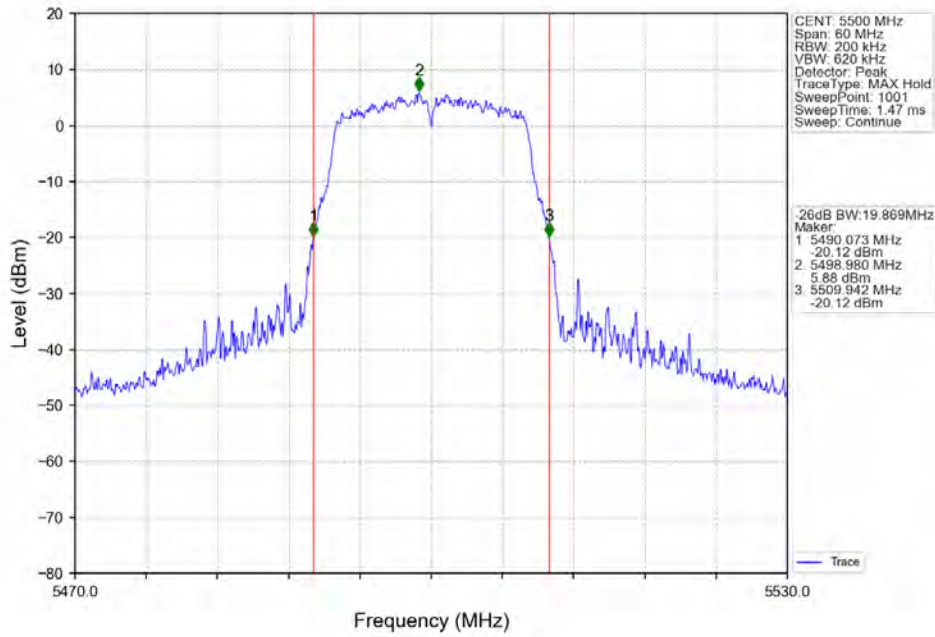
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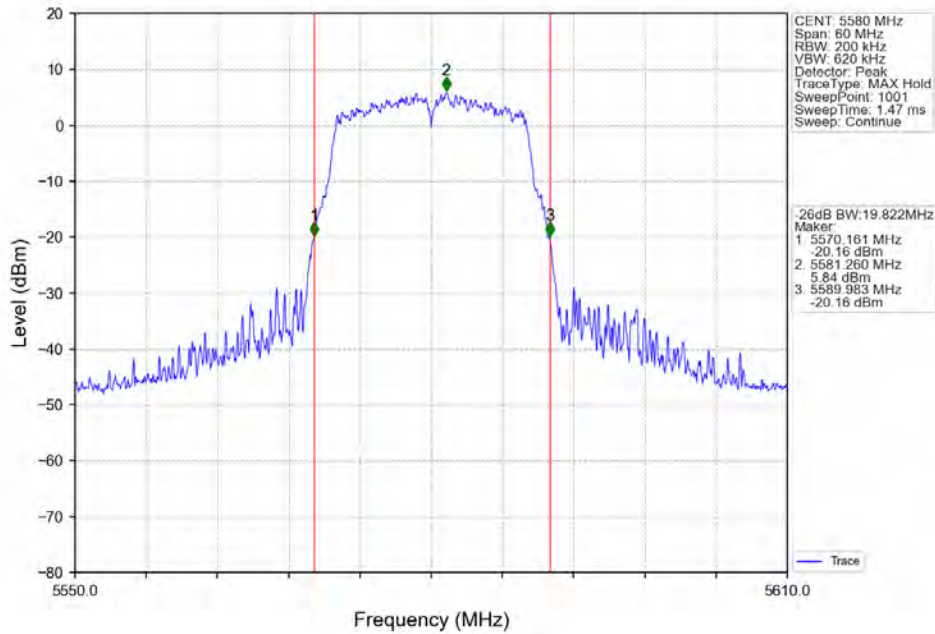
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802.11a LCH 5500MHz Ant7 NTVN



802.11a MCH 5580MHz Ant7 NTVN

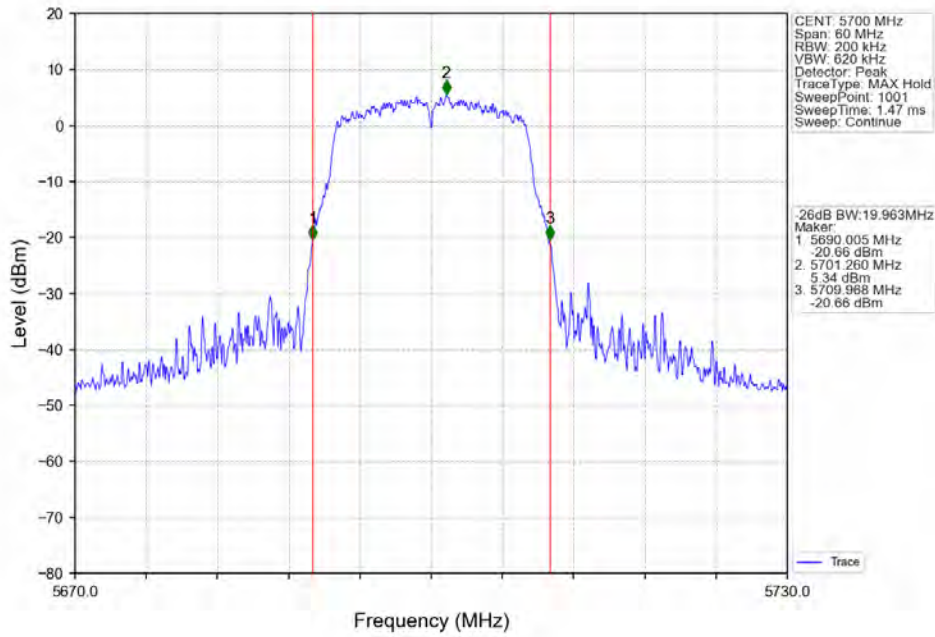


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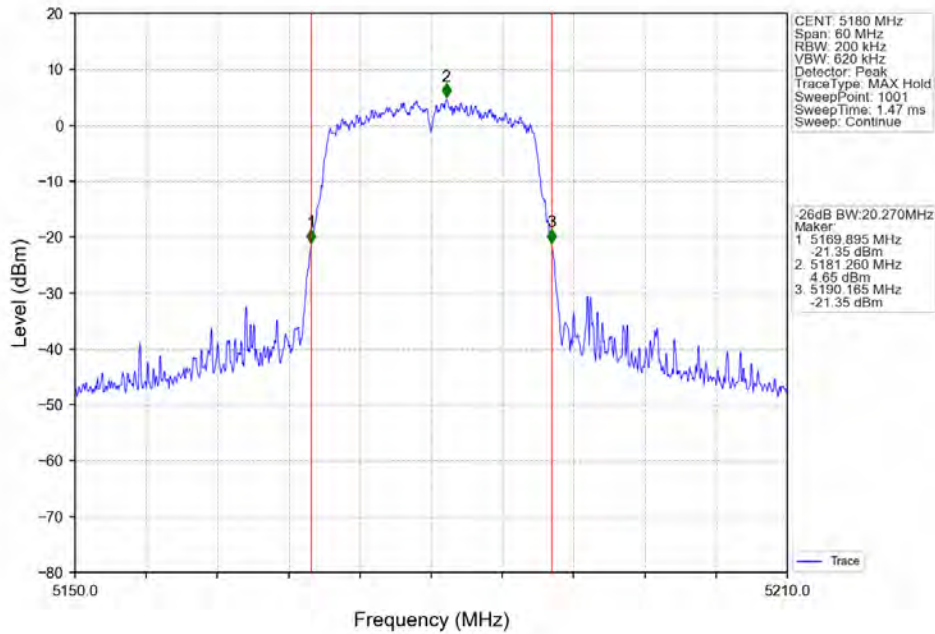
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802.11a\_HCH\_5700MHz\_Ant7\_NTNV



802.11ac(VHT20)\_LCH\_5180MHz\_Ant7\_NTNV

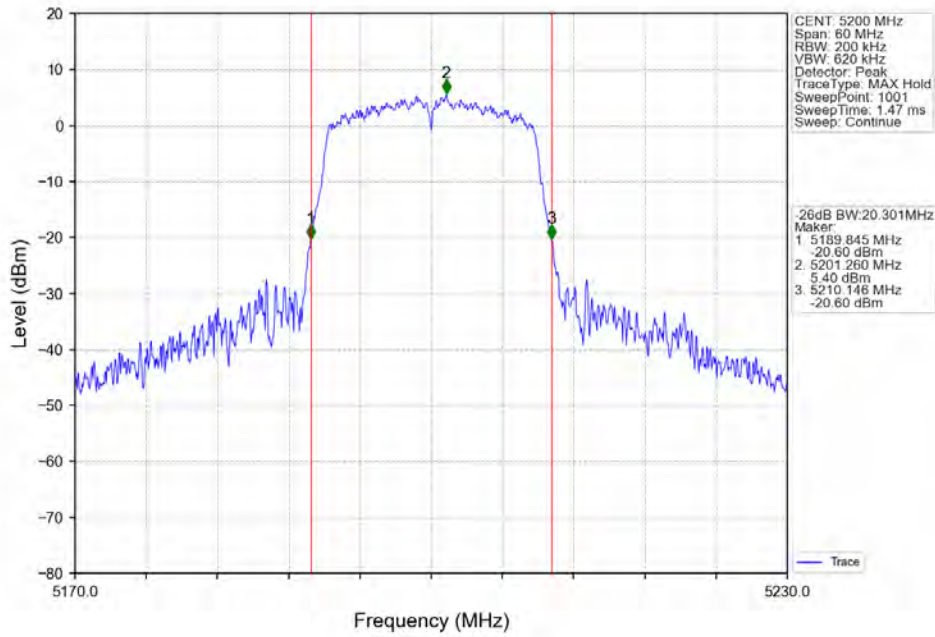


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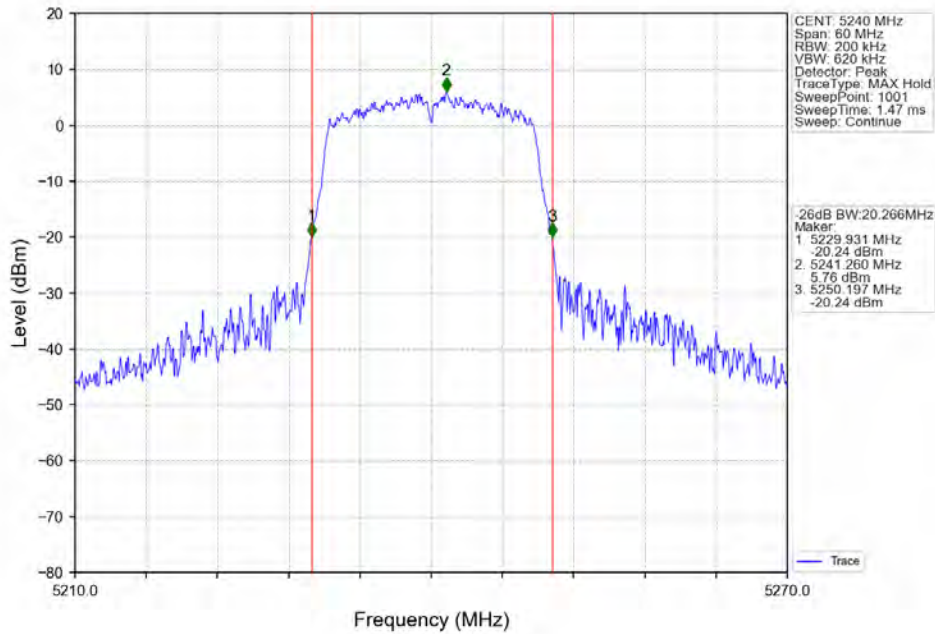
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802.11ac(VHT20) MCH 5200MHz Ant7 NTN



802.11ac(VHT20) HCH 5240MHz Ant7 NTN

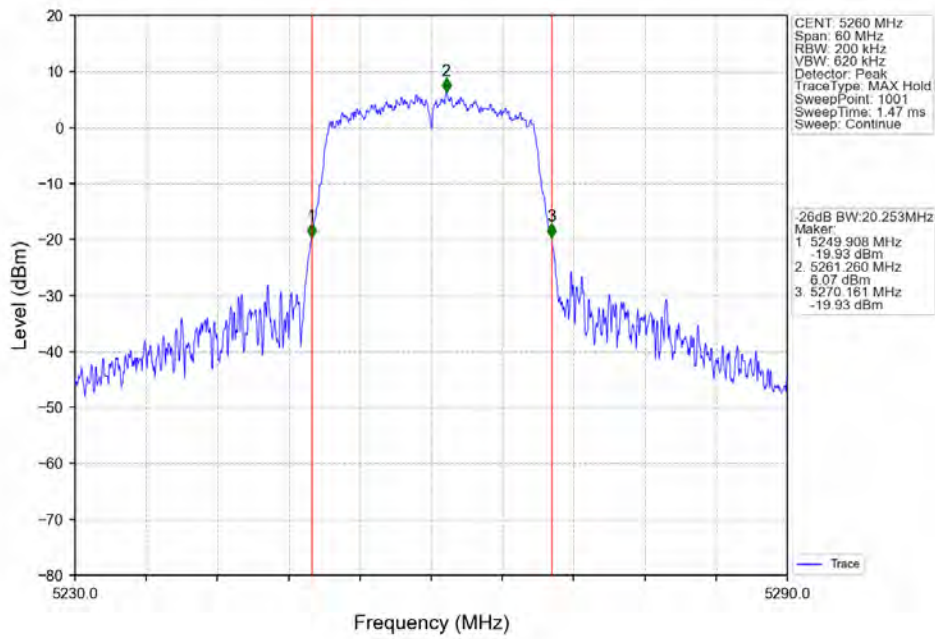


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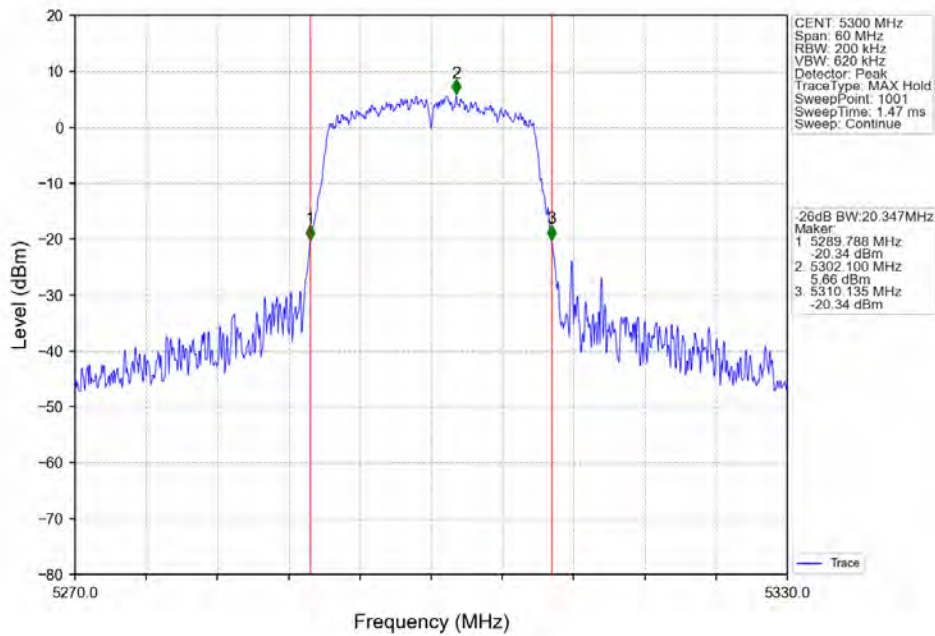
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802.11ac(VHT20) LCH 5260MHz Ant7 NTN



802.11ac(VHT20) MCH 5300MHz Ant7 NTN

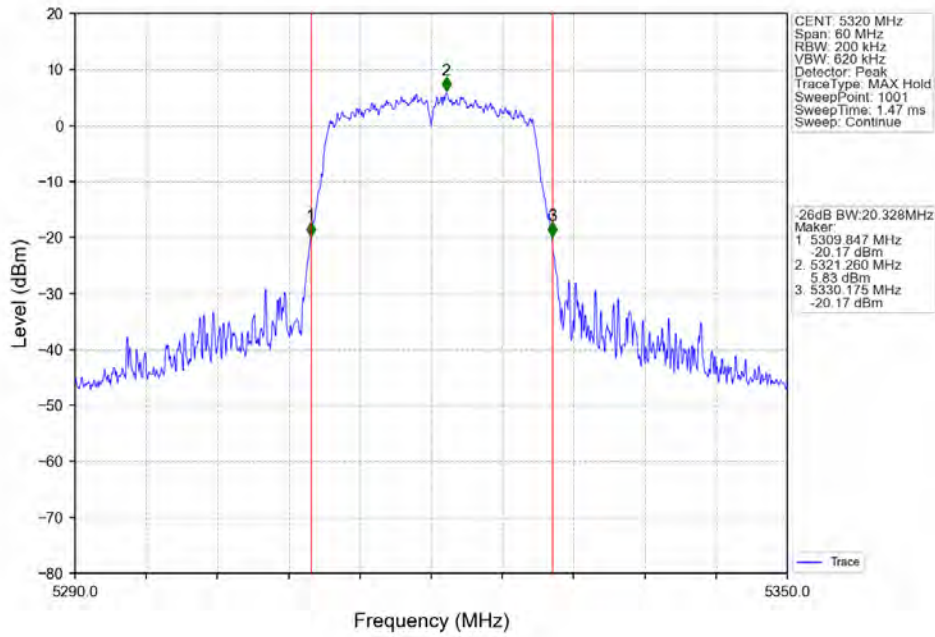


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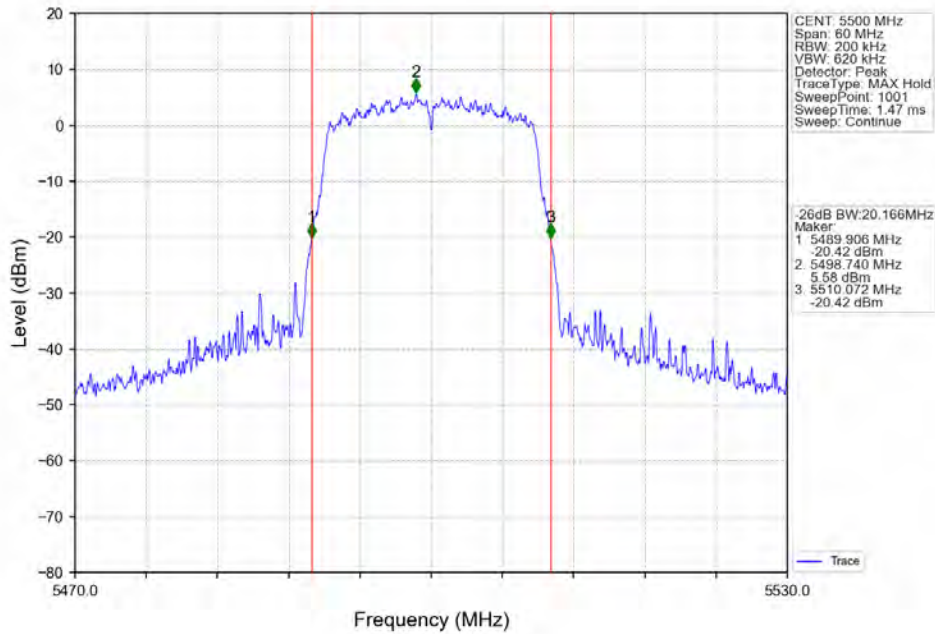
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802.11ac(VHT20) HCH 5320MHz Ant7 NTN



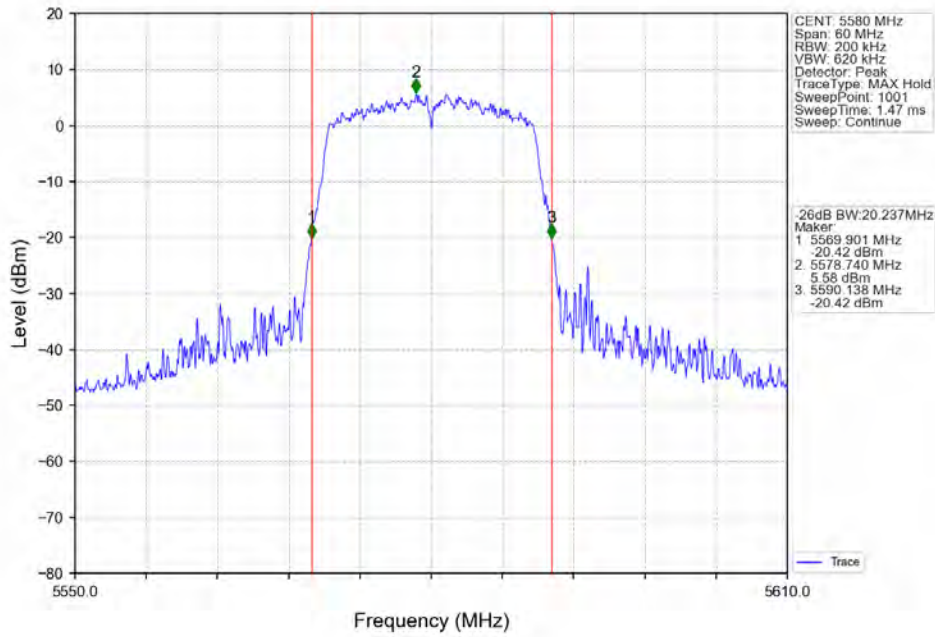
802.11ac(VHT20) LCH 5500MHz Ant7 NTN



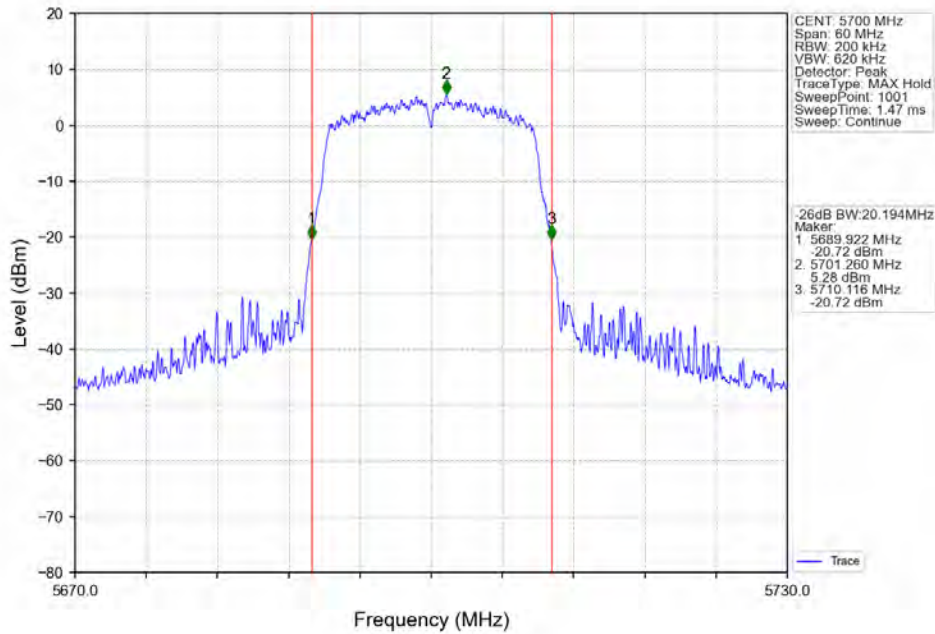
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802.11ac(VHT20) MCH 5580MHz Ant7 NTN



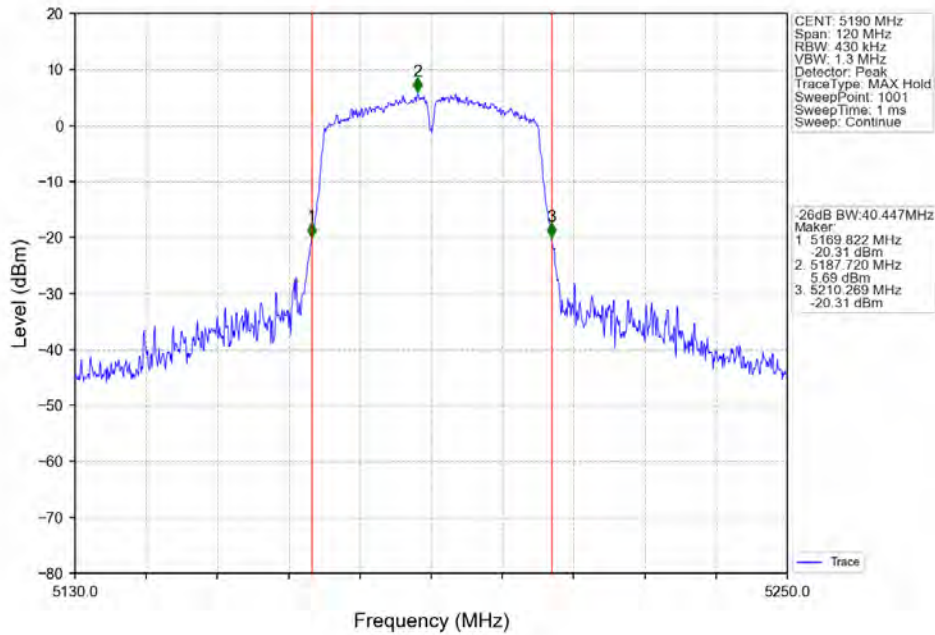
802.11ac(VHT20) HCH 5700MHz Ant7 NTN



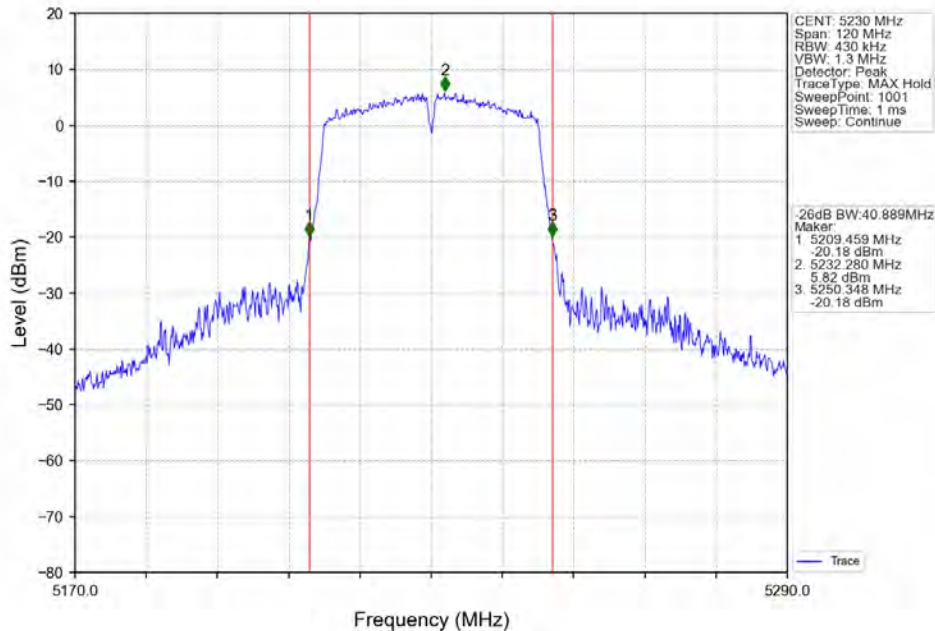
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802.11ac(VHT40) LCH 5190MHz Ant7 NTN



802.11ac(VHT40) HCH 5230MHz Ant7 NTN

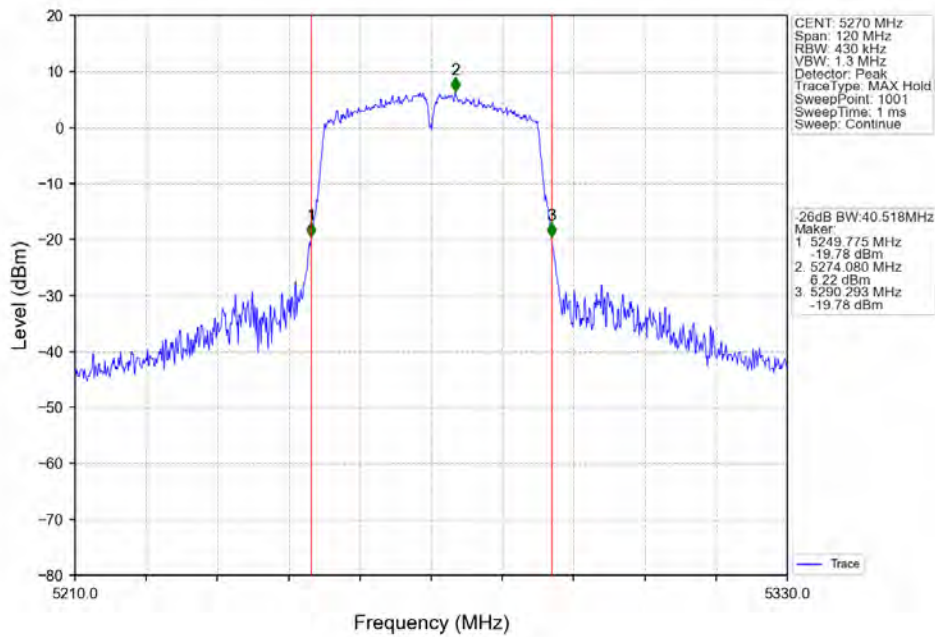


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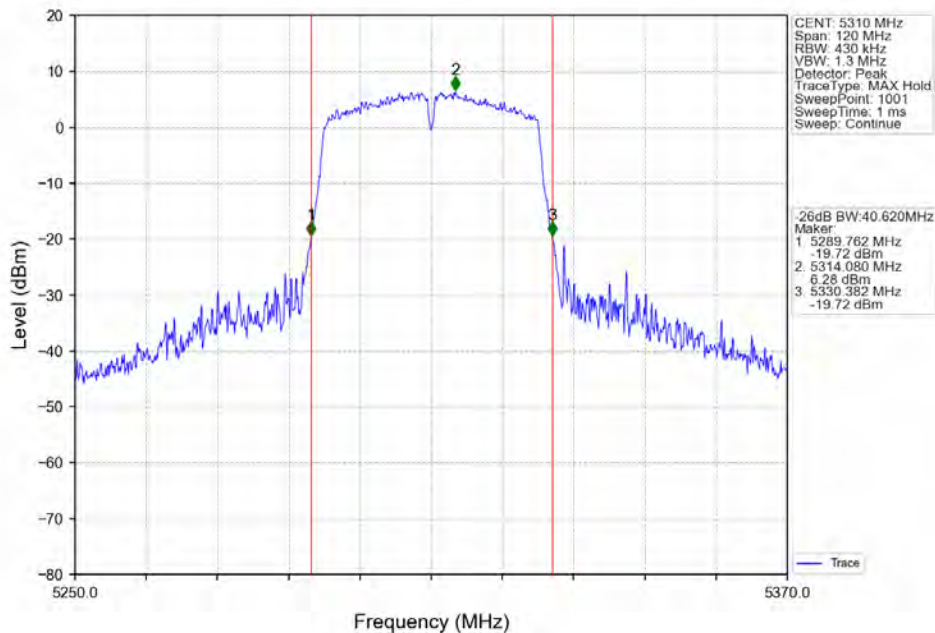
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802.11ac(VHT40) LCH 5270MHz Ant7\_NTNV



802.11ac(VHT40) HCH 5310MHz Ant7\_NTNV



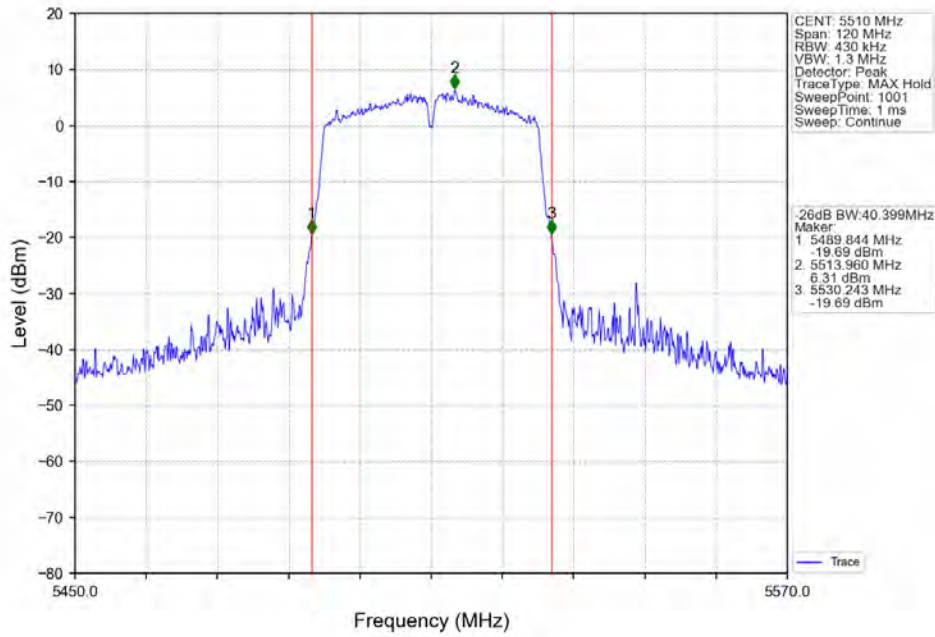
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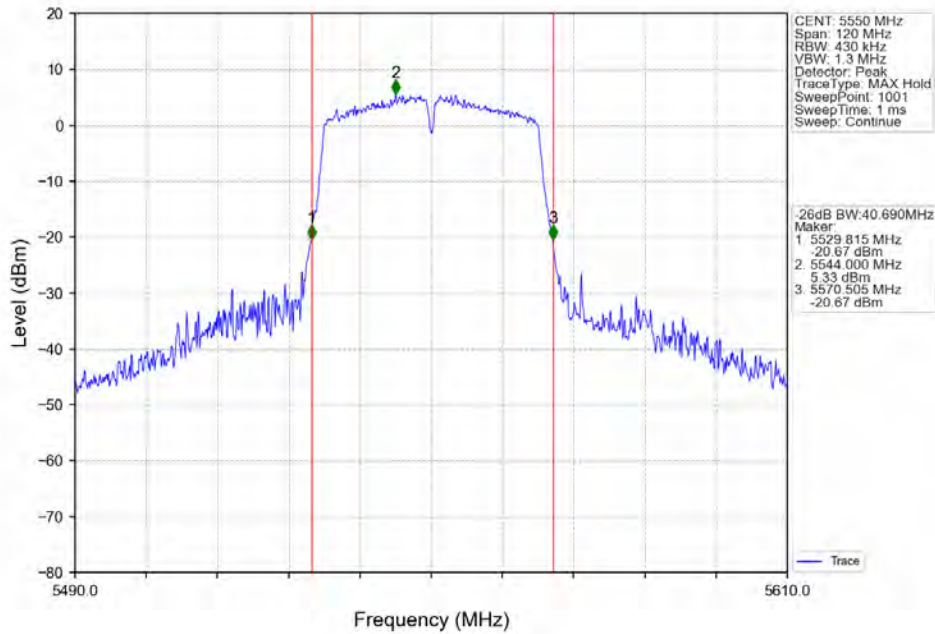
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802.11ac(VHT40) LCH 5510MHz Ant7 NTN



802.11ac(VHT40) MCH 5550MHz Ant7 NTN

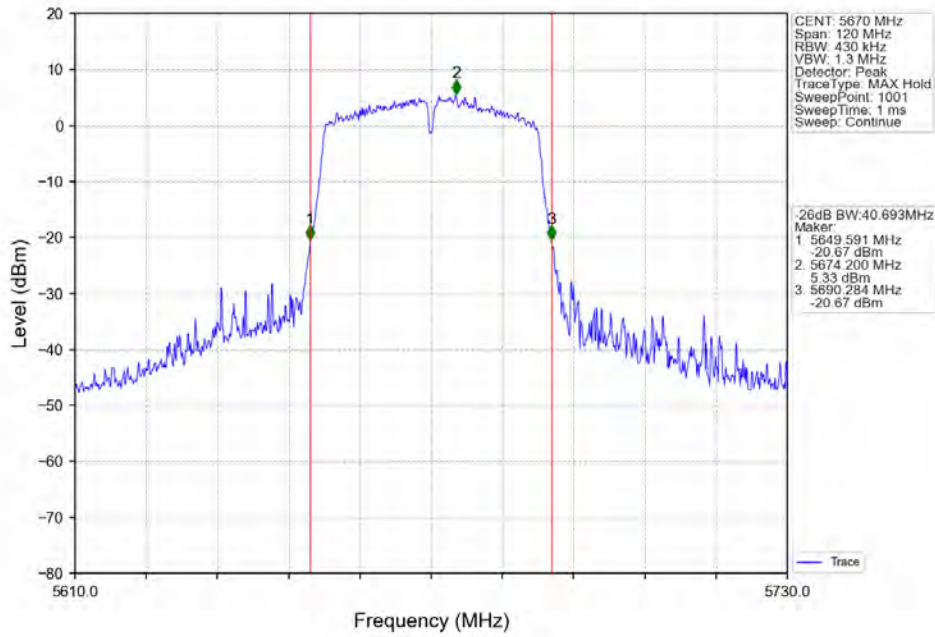


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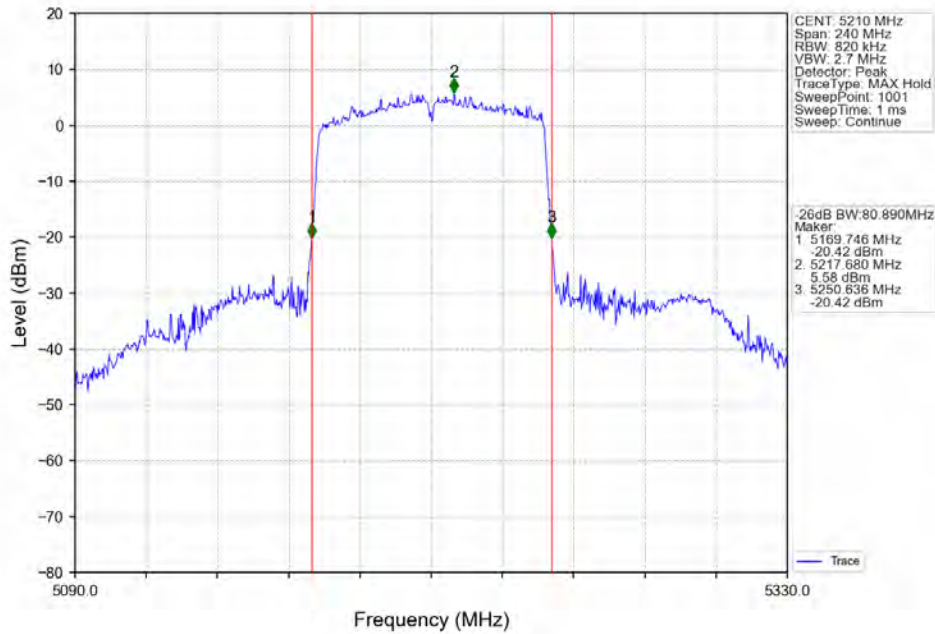
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802.11ac(VHT40) HCH 5670MHz Ant7\_NTNV



802.11ac(VHT80) MCH 5210MHz Ant7\_NTNV

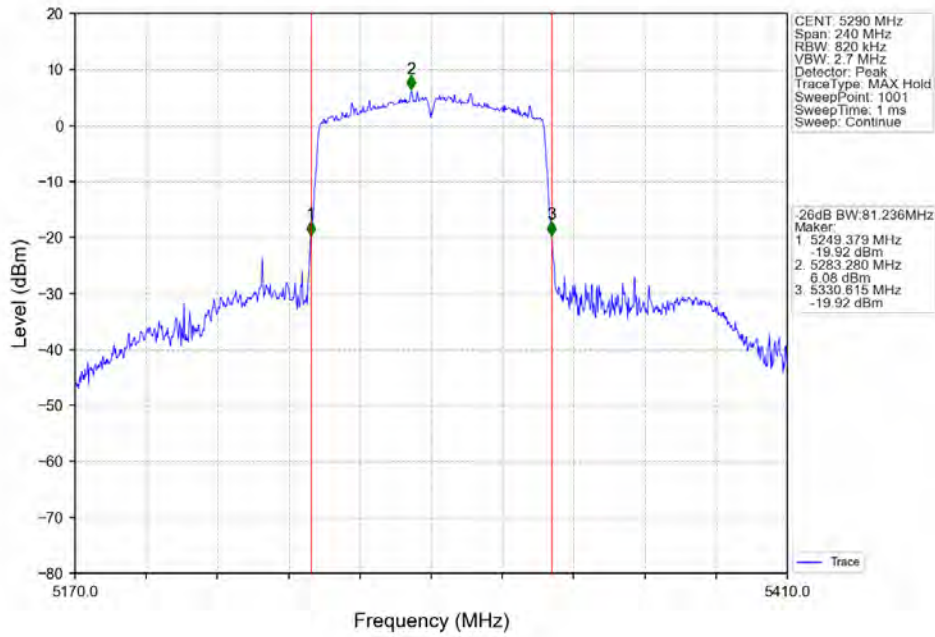


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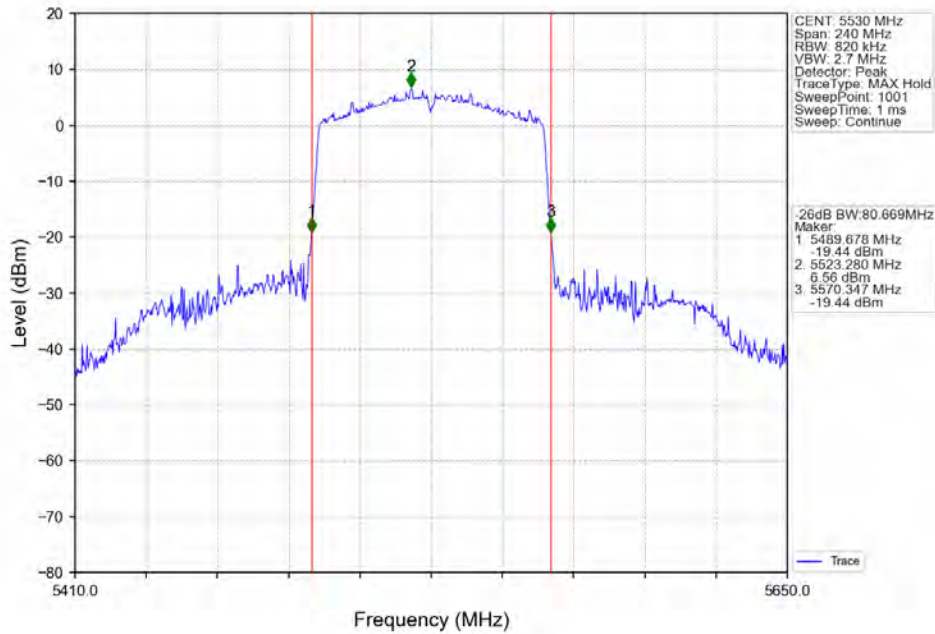
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802.11ac(VHT80) MCH 5290MHz Ant7 NTN



802.11ac(VHT80) LCH 5530MHz Ant7 NTN



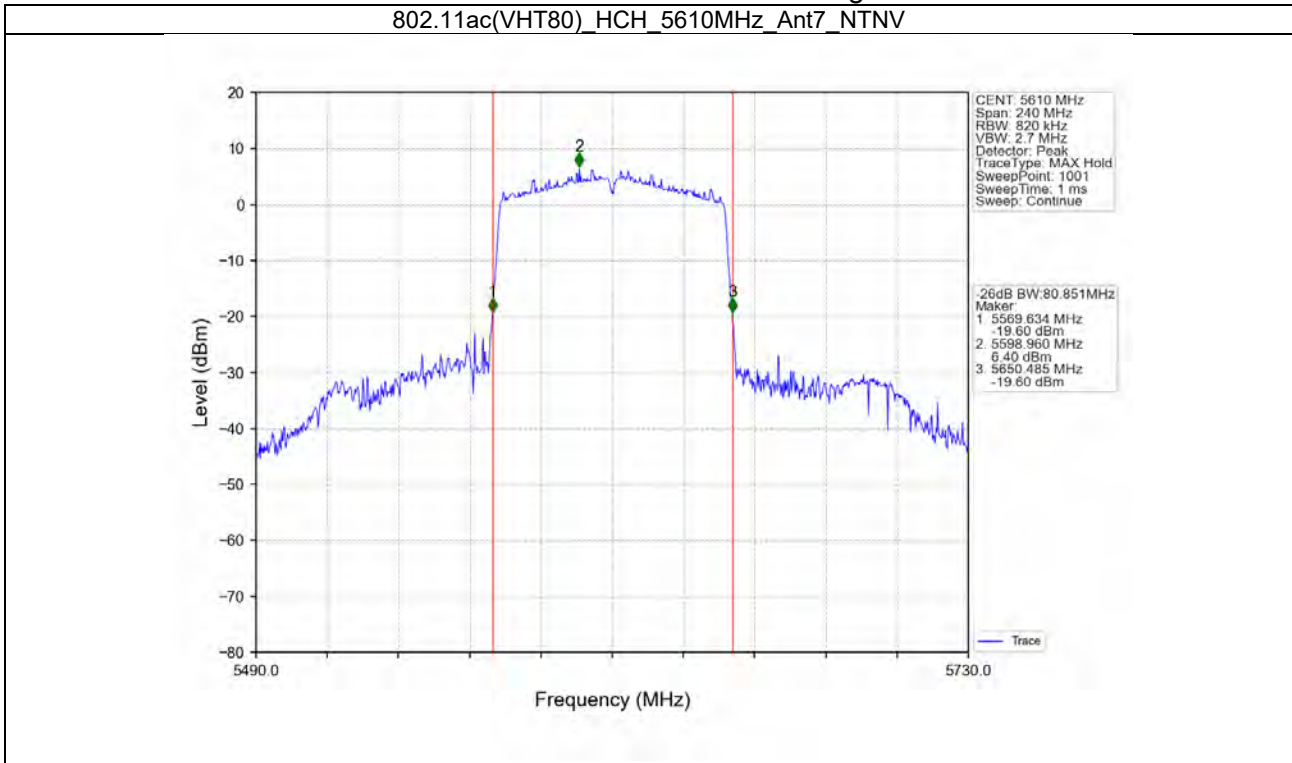
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## Maximum Conducted Output Power

### Test Result

#### Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT7	Limit	
802.11a	SISO	5180	14.12	<=23.98	Pass
		5200	14.23	<=23.98	Pass
		5240	14.28	<=23.98	Pass
		5260	14.02	<=23.98	Pass
		5300	14.03	<=23.98	Pass
		5320	14.01	<=23.98	Pass
		5500	14.23	<=23.98	Pass
		5580	14.34	<=23.98	Pass
		5700	14.45	<=23.98	Pass
		5745	14.35	<=30	Pass
		5785	14.26	<=30	Pass
		5825	14.19	<=30	Pass
802.11N (HT20)	SISO	5180	14.48	<=23.98	Pass
		5200	14.57	<=23.98	Pass
		5240	14.49	<=23.98	Pass
		5260	14.5	<=23.98	Pass
		5300	14.29	<=23.98	Pass
		5320	14.2	<=23.98	Pass
		5500	14.15	<=23.98	Pass
		5580	14.09	<=23.98	Pass
		5700	14.38	<=23.98	Pass
		5745	14.12	<=30	Pass
		5785	14.23	<=30	Pass
		5825	14.09	<=30	Pass
802.11N (HT40)	SISO	5190	14.35	<=23.98	Pass
		5230	14.23	<=23.98	Pass
		5270	14.43	<=23.98	Pass
		5310	14.32	<=23.98	Pass
		5510	14.53	<=23.98	Pass
		5550	14.42	<=23.98	Pass
		5670	14.25	<=23.98	Pass
		5755	14.19	<=30	Pass
802.11ac (VHT20)	SISO	5180	14.58	<=23.98	Pass
		5200	14.62	<=23.98	Pass
		5240	14.6	<=23.98	Pass
		5260	14.55	<=23.98	Pass
		5300	14.38	<=23.98	Pass
		5320	14.31	<=23.98	Pass
		5500	14.2	<=23.98	Pass
		5580	14.25	<=23.98	Pass
		5700	14.5	<=23.98	Pass
		5745	14.2	<=30	Pass
		5785	14.35	<=30	Pass
		5825	14.15	<=30	Pass



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802.11ac (VHT40)	SISO	5190	14.46	<=23.98	Pass
		5230	14.35	<=23.98	Pass
		5270	14.5	<=23.98	Pass
		5310	14.45	<=23.98	Pass
		5510	14.6	<=23.98	Pass
		5550	14.53	<=23.98	Pass
		5670	14.36	<=23.98	Pass
		5755	14.23	<=30	Pass
802.11ac (VHT80)	SISO	5795	14.25	<=30	Pass
		5210	13.52	<=23.98	Pass
		5290	13.51	<=23.98	Pass
		5530	12.88	<=23.98	Pass
		5610	12.74	<=23.98	Pass
		5775	14.36	<=30	Pass



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**Maximum Power Spectral Density**

**Test Result**

**PSD**

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT7	Limit	
802.11a	SISO	5180	3.28	<=11	Pass
		5200	3.36	<=11	Pass
		5240	3.66	<=11	Pass
		5260	3.68	<=11	Pass
		5300	4.66	<=11	Pass
		5320	4.37	<=11	Pass
		5500	4.57	<=11	Pass
		5580	4.56	<=11	Pass
802.11ac (VHT20)	SISO	5700	4.08	<=11	Pass
		5180	3.24	<=11	Pass
		5200	3.86	<=11	Pass
		5240	4.49	<=11	Pass
		5260	4.61	<=11	Pass
		5300	4.33	<=11	Pass
		5320	4.35	<=11	Pass
		5500	4.37	<=11	Pass
802.11ac (VHT40)	SISO	5580	4.18	<=11	Pass
		5700	3.85	<=11	Pass
		5190	1.28	<=11	Pass
		5230	1.30	<=11	Pass
		5270	1.91	<=11	Pass
		5310	2.10	<=11	Pass
		5510	1.81	<=11	Pass
802.11ac (VHT80)	SISO	5550	1.25	<=11	Pass
		5670	0.94	<=11	Pass
		5210	-1.79	<=11	Pass
		5290	-1.42	<=11	Pass
		5530	-1.35	<=11	Pass
		5610	-1.38	<=11	Pass

**PSD-Band3**

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT7	Limit	
802.11a	SISO	5745	0.97	<=30	Pass
		5785	2.01	<=30	Pass
		5825	1.37	<=30	Pass
802.11ac (VHT20)	SISO	5745	0.45	<=30	Pass
		5785	1.18	<=30	Pass
		5825	0.97	<=30	Pass
802.11ac (VHT40)	SISO	5755	-1.86	<=30	Pass
		5795	-1.97	<=30	Pass
802.11ac (VHT80)	SISO	5775	-4.28	<=30	Pass



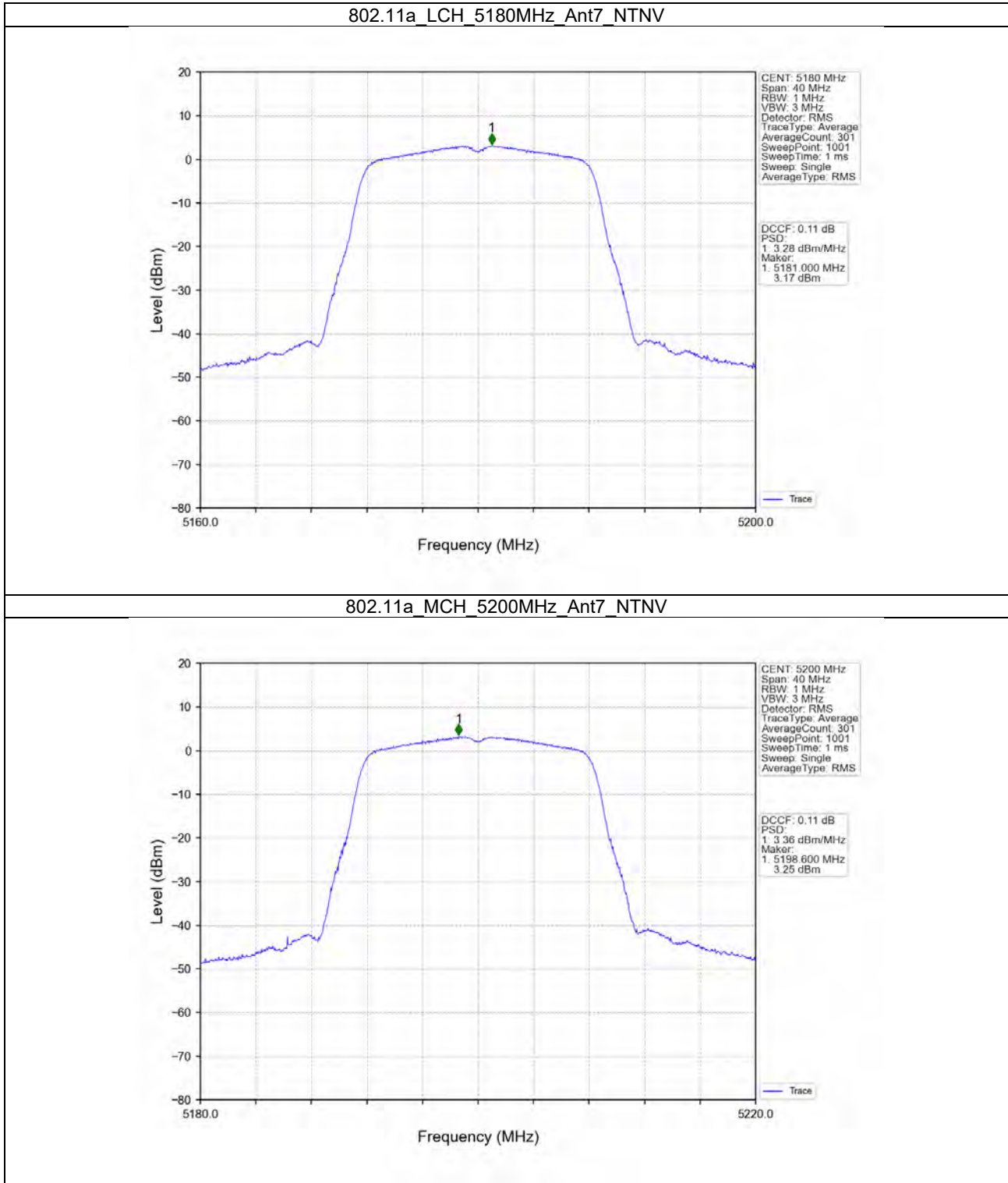
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Test Graph

PSD



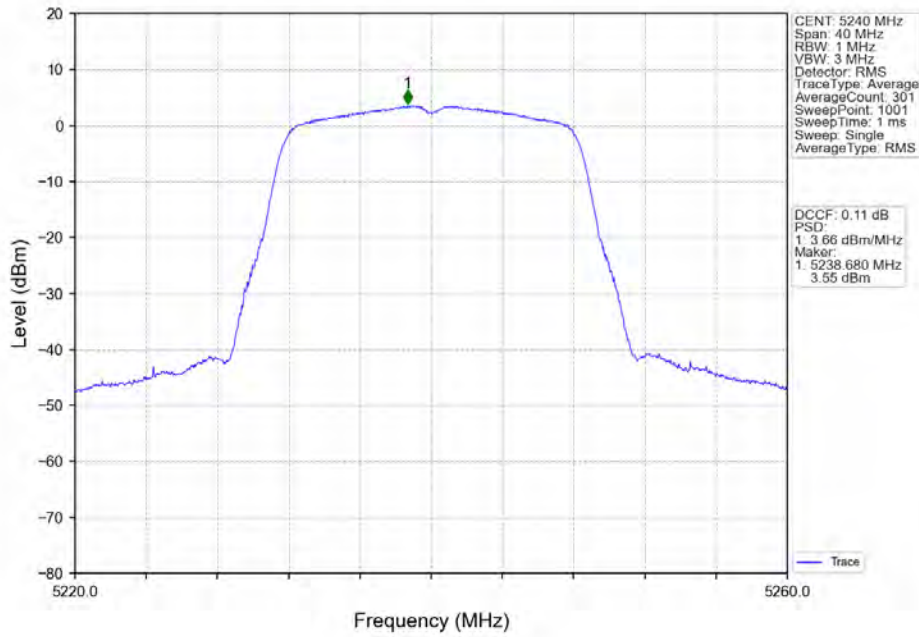
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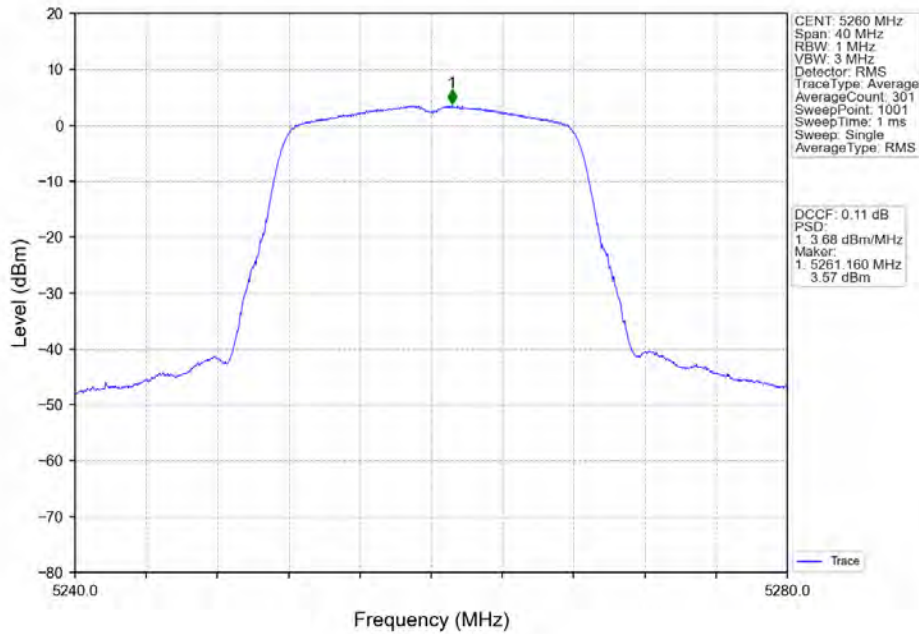
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802.11a\_HCH\_5240MHz\_Ant7\_NTNV



802.11a\_LCH\_5260MHz\_Ant7\_NTNV

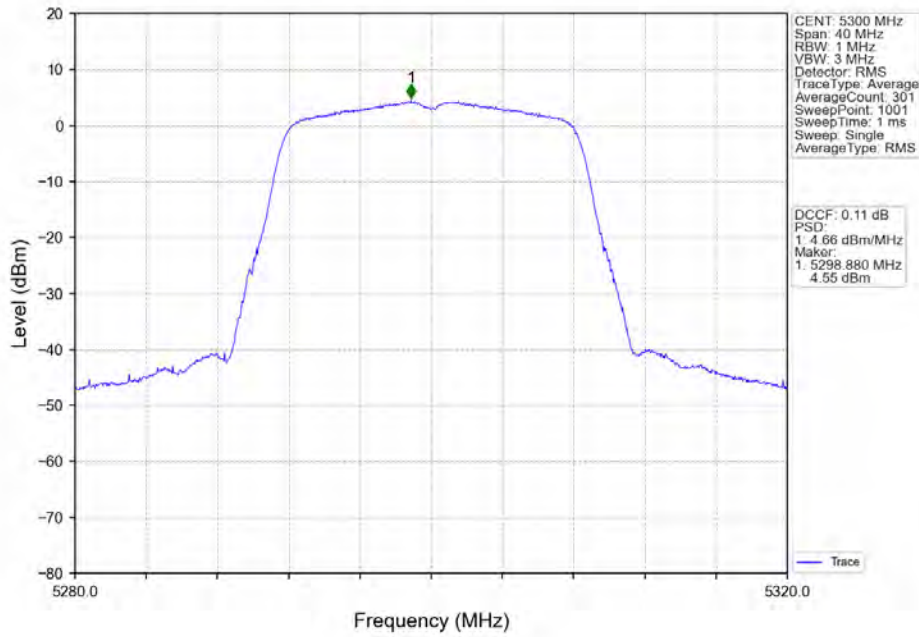


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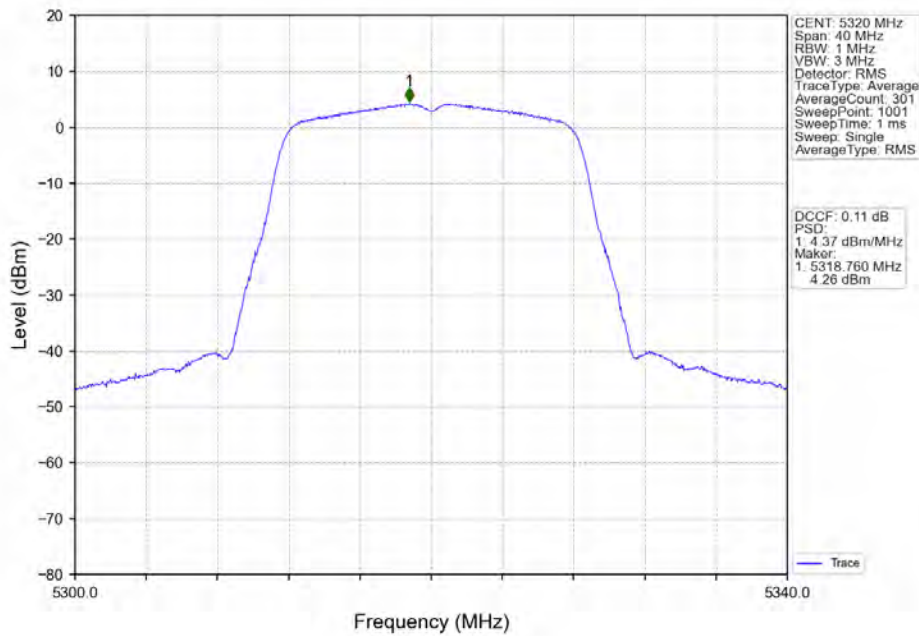
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802.11a MCH 5300MHz Ant7 NTVN



802.11a HCH 5320MHz Ant7 NTVN



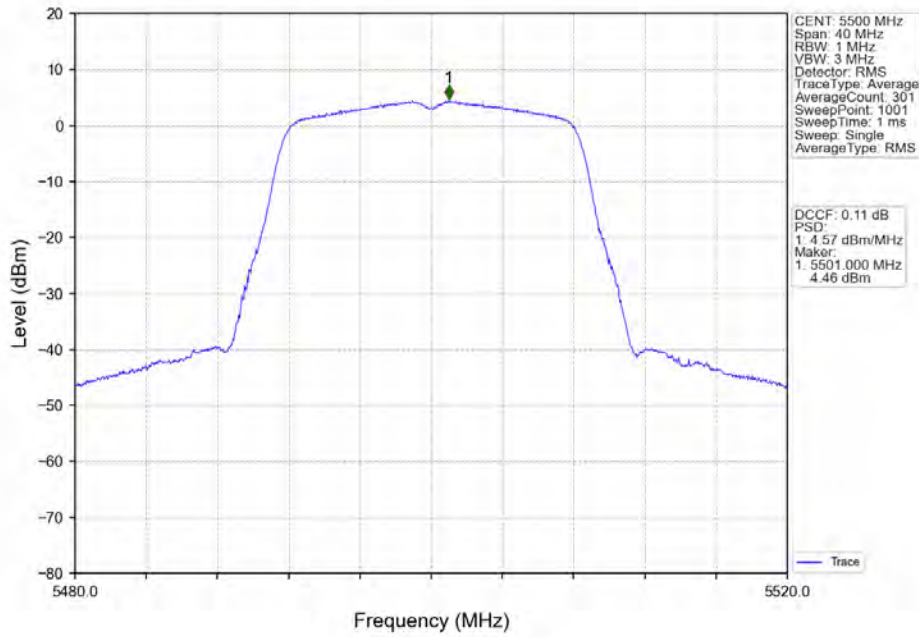
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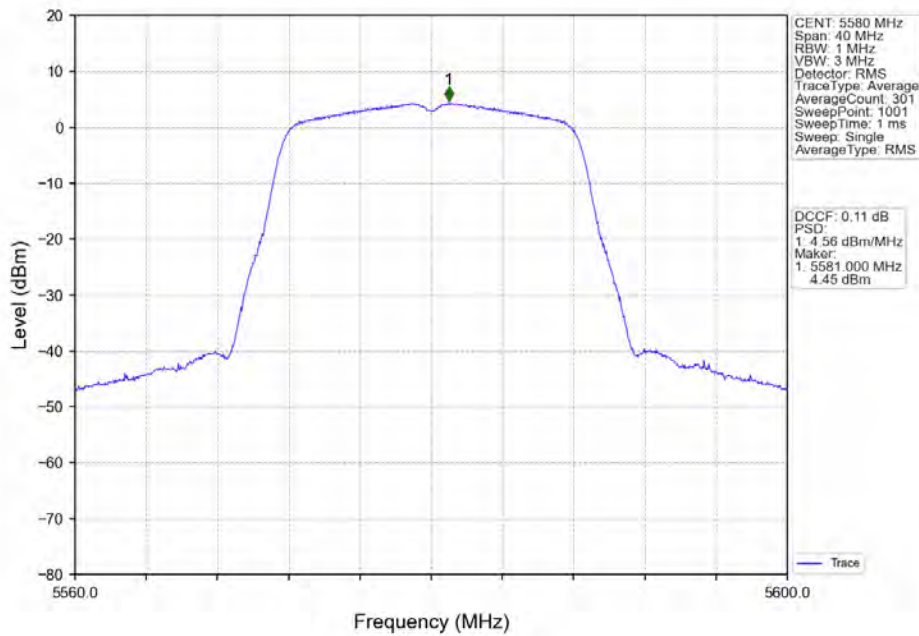
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802.11a LCH 5500MHz Ant7 NTVN



802.11a MCH 5580MHz Ant7 NTVN



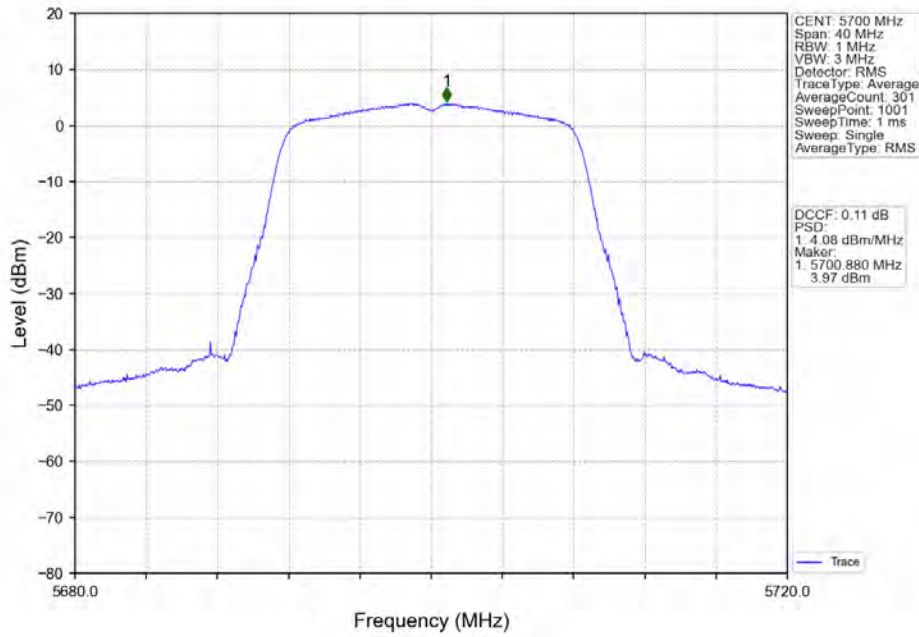
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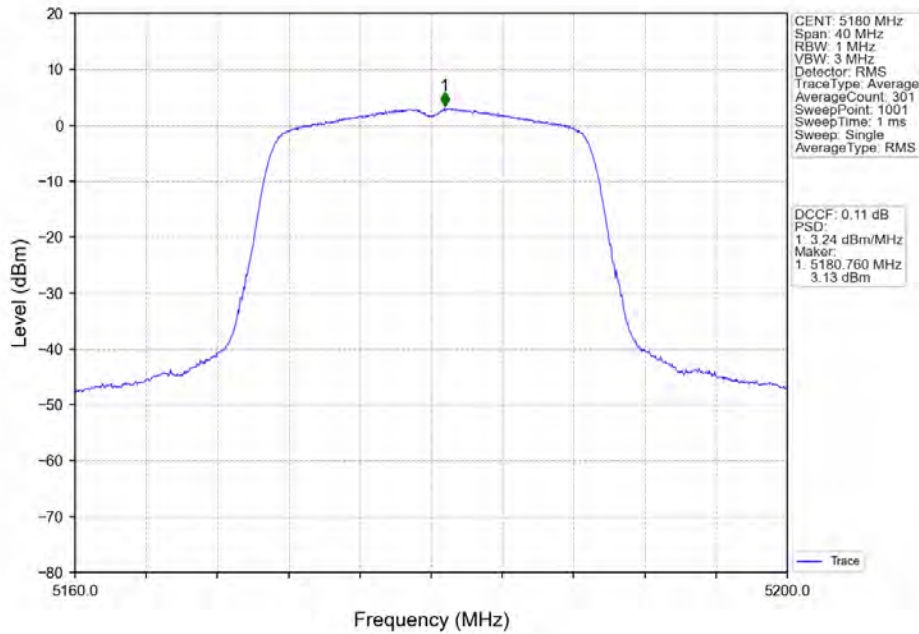
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802.11a\_HCH\_5700MHz\_Ant7\_NTNV



802.11ac(VHT20)\_LCH\_5180MHz\_Ant7\_NTNV



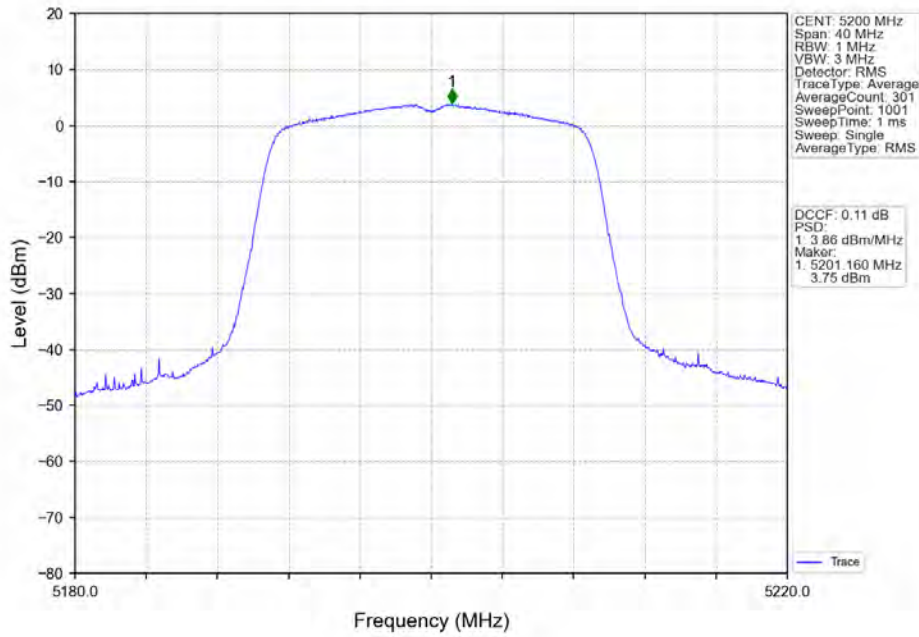
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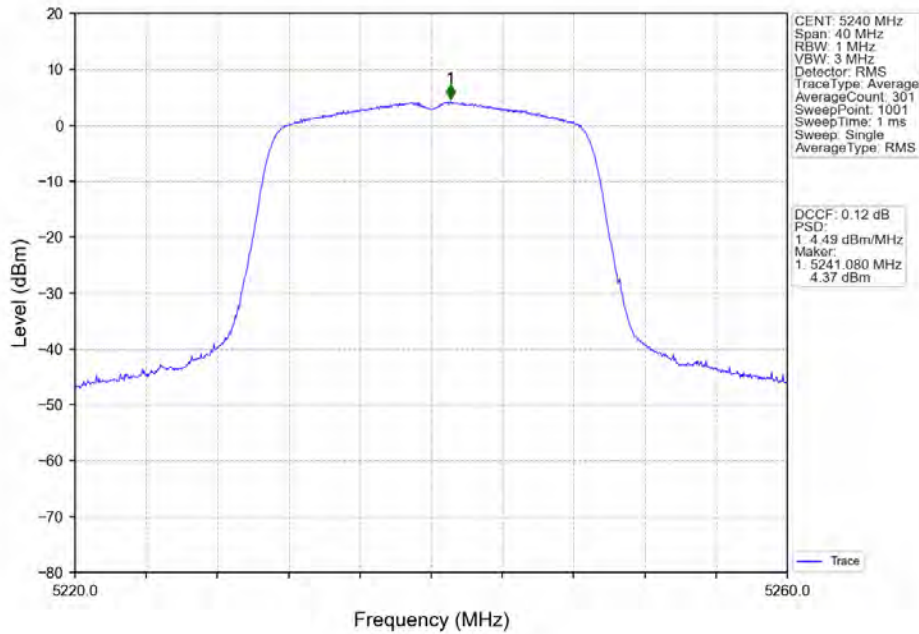
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802.11ac(VHT20) MCH 5200MHz Ant7 NTN



802.11ac(VHT20) HCH 5240MHz Ant7 NTN

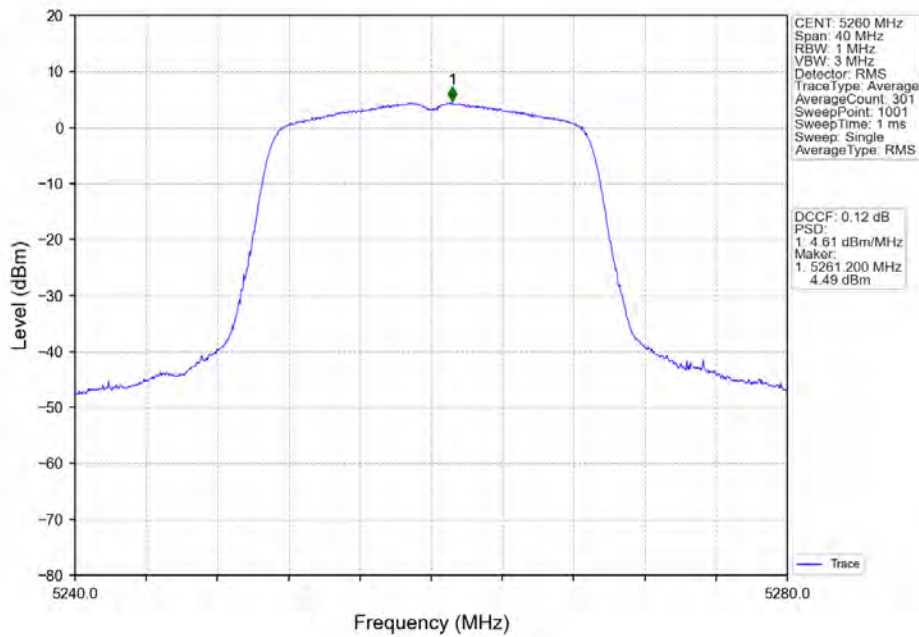


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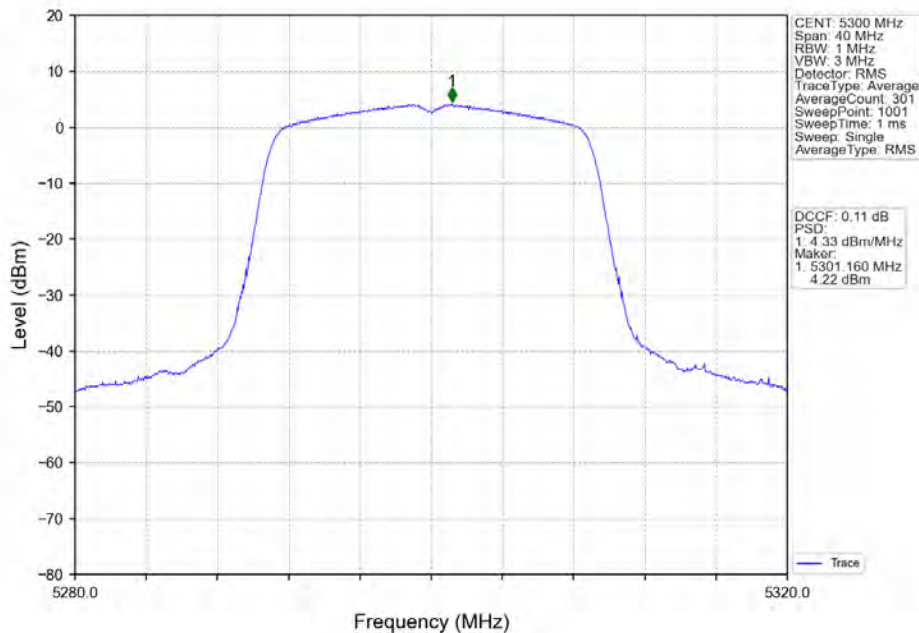
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802.11ac(VHT20) LCH 5260MHz Ant7 NTN



802.11ac(VHT20) MCH 5300MHz Ant7 NTN



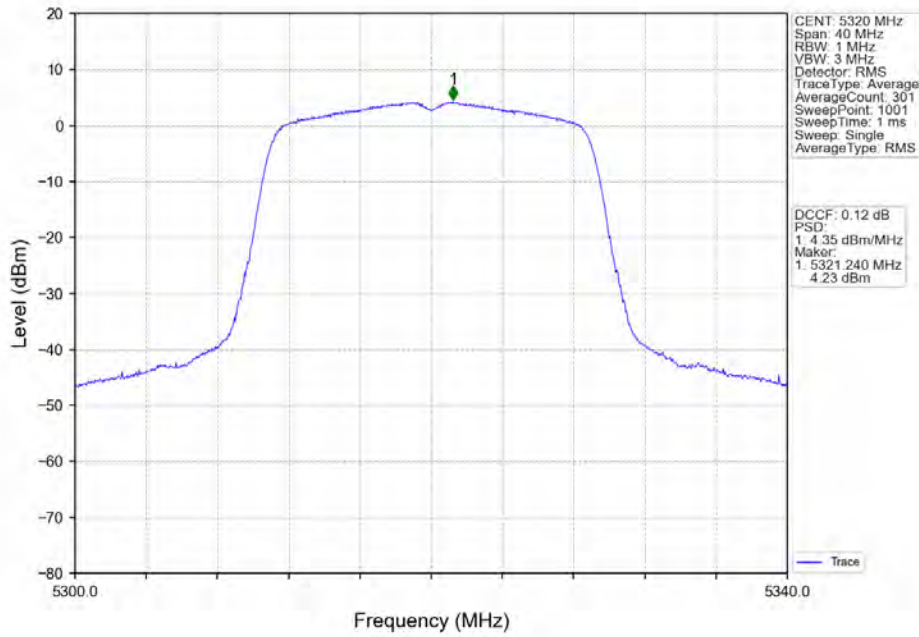
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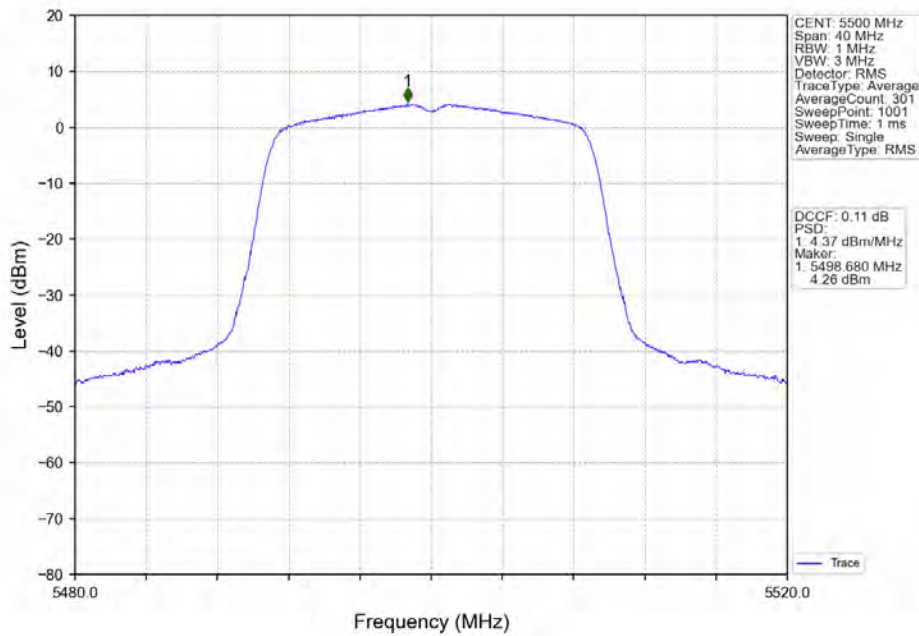
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802.11ac(VHT20) HCH 5320MHz Ant7 NTN



802.11ac(VHT20) LCH 5500MHz Ant7 NTN

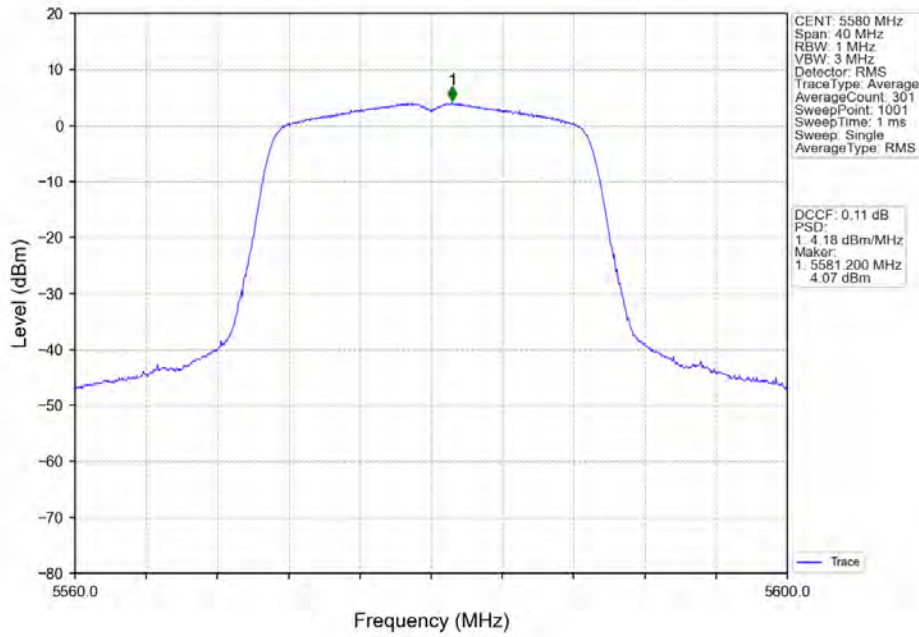


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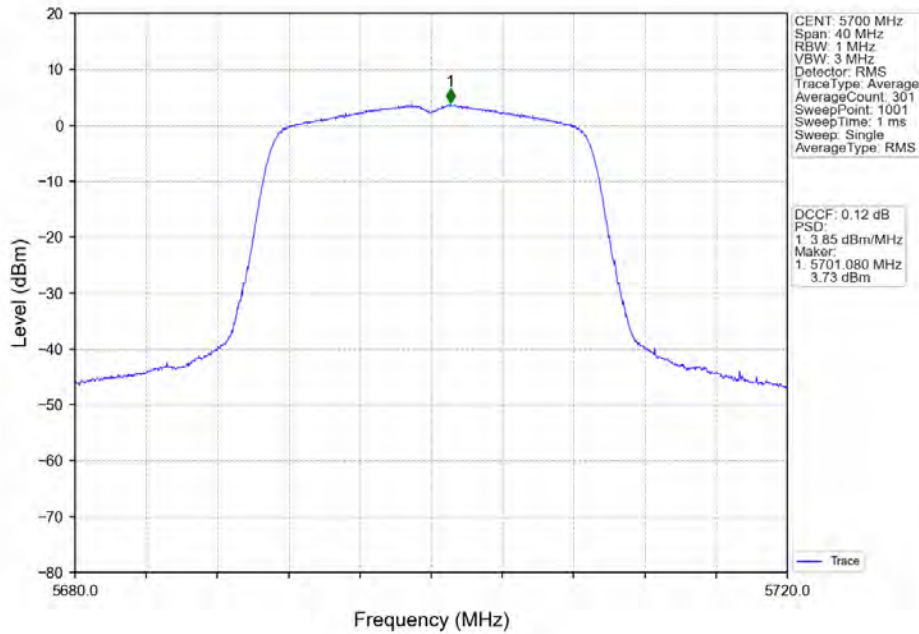
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802.11ac(VHT20) MCH 5580MHz Ant7 NTN



802.11ac(VHT20) HCH 5700MHz Ant7 NTN



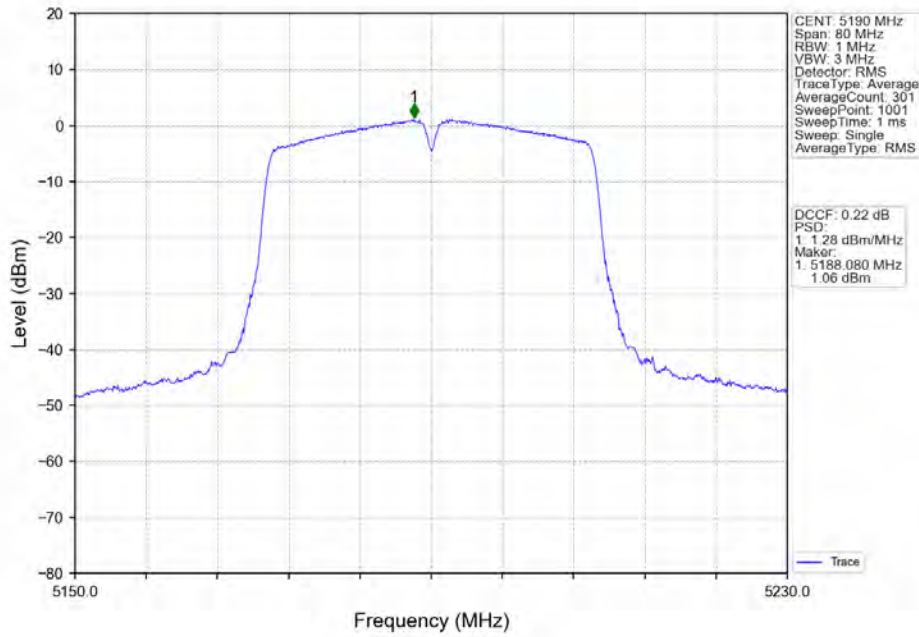
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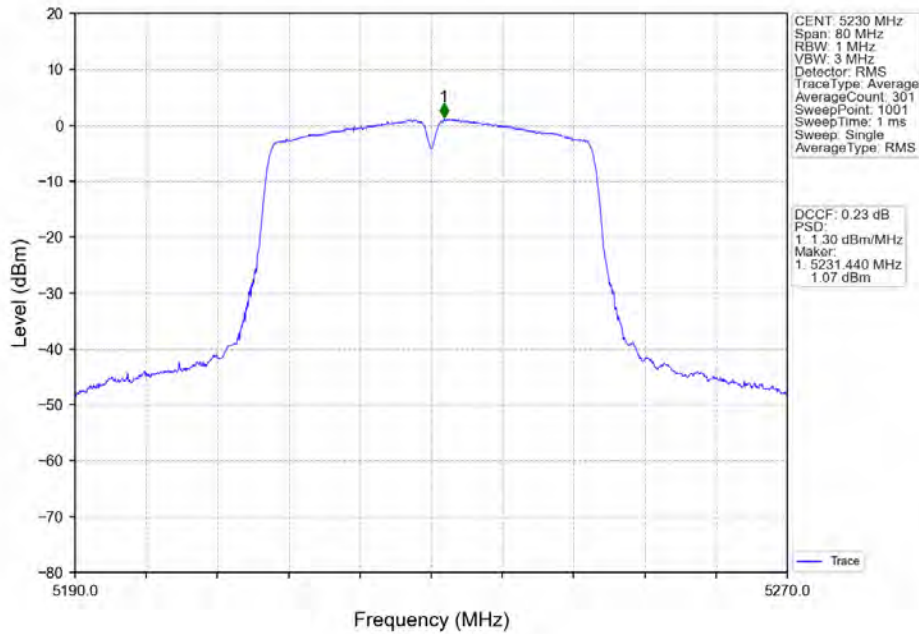
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802.11ac(VHT40) LCH 5190MHz Ant7 NTN



802.11ac(VHT40) HCH 5230MHz Ant7 NTN



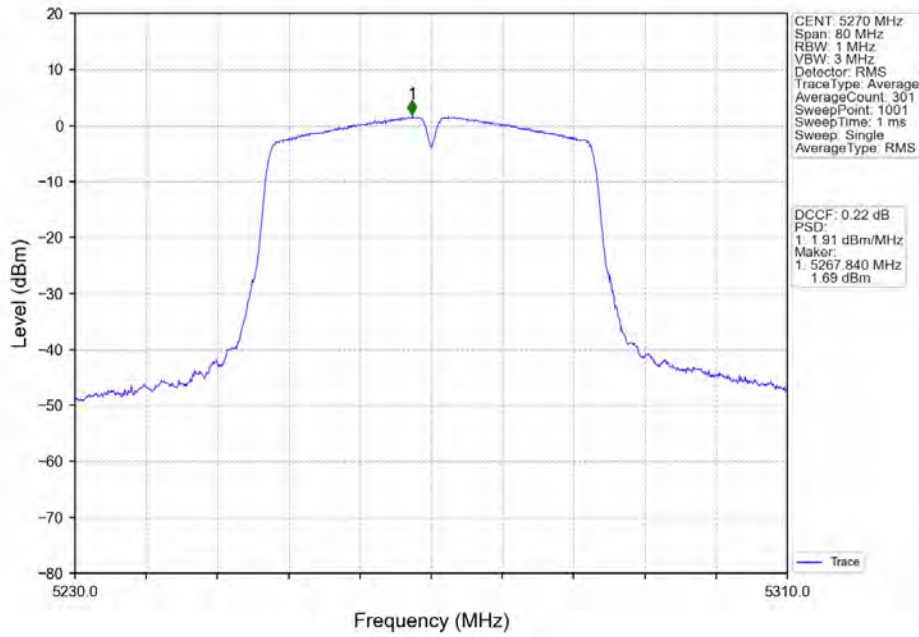
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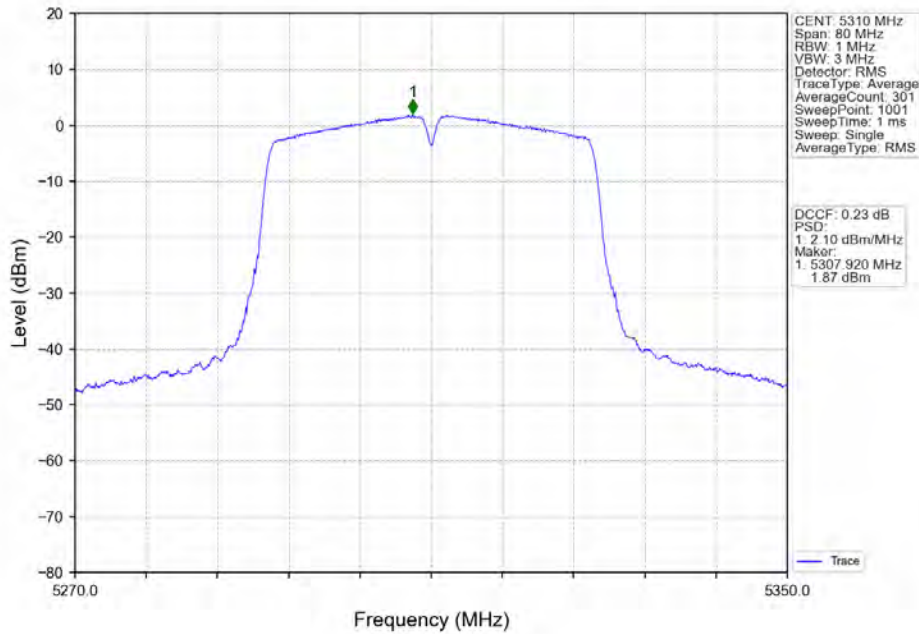
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802.11ac(VHT40) LCH 5270MHz Ant7 NTN



802.11ac(VHT40) HCH 5310MHz Ant7 NTN



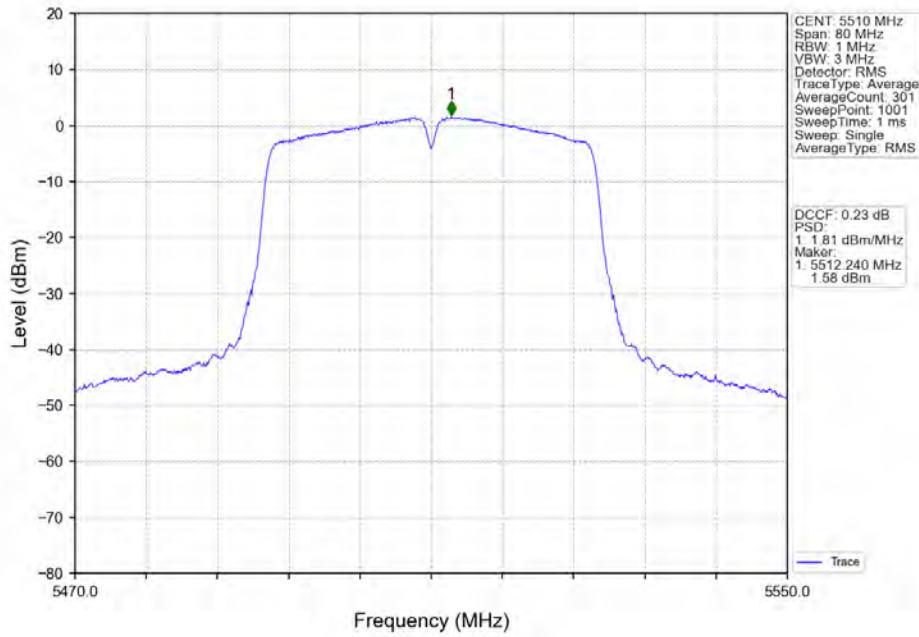
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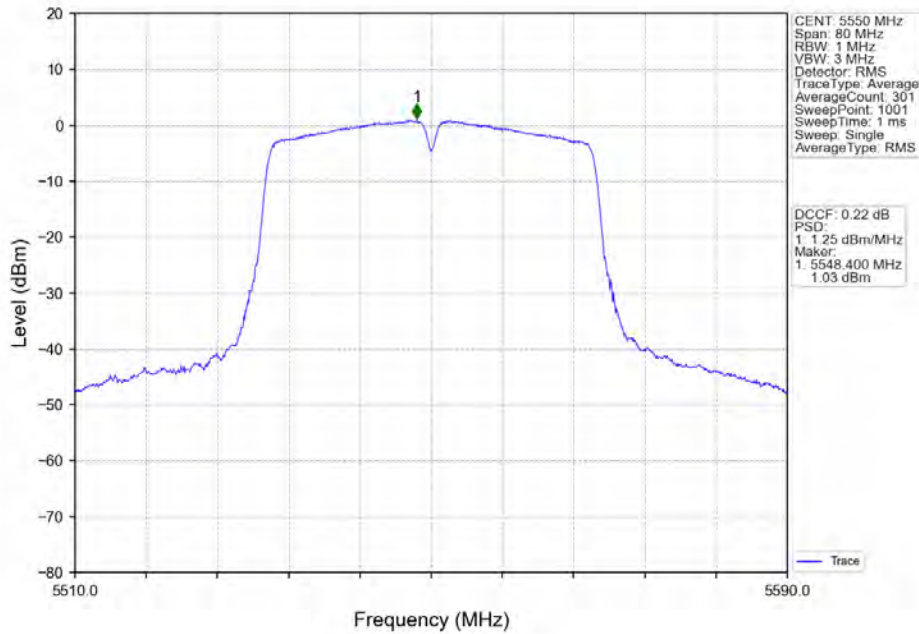
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802.11ac(VHT40) LCH 5510MHz Ant7 NTN



802.11ac(VHT40) MCH 5550MHz Ant7 NTN

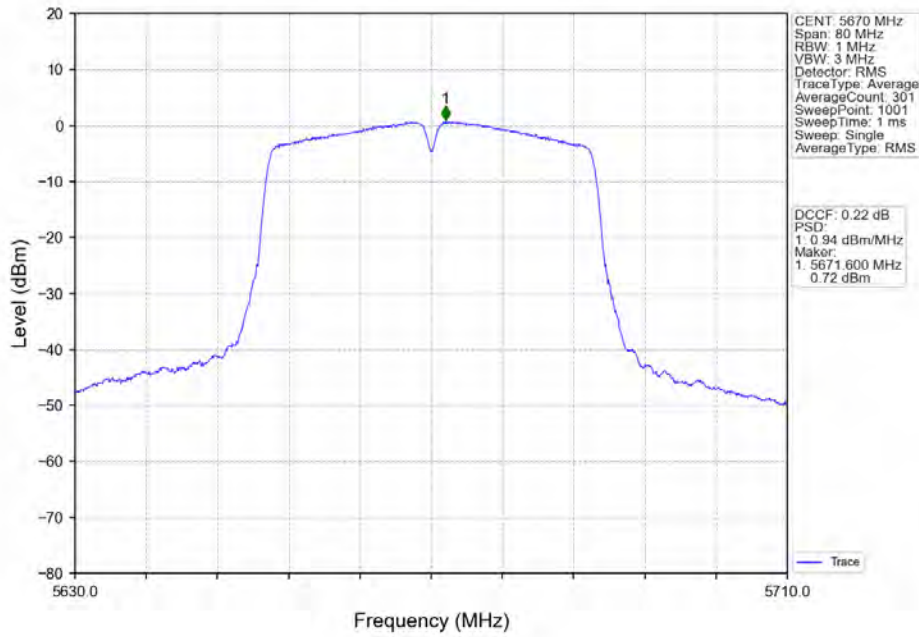


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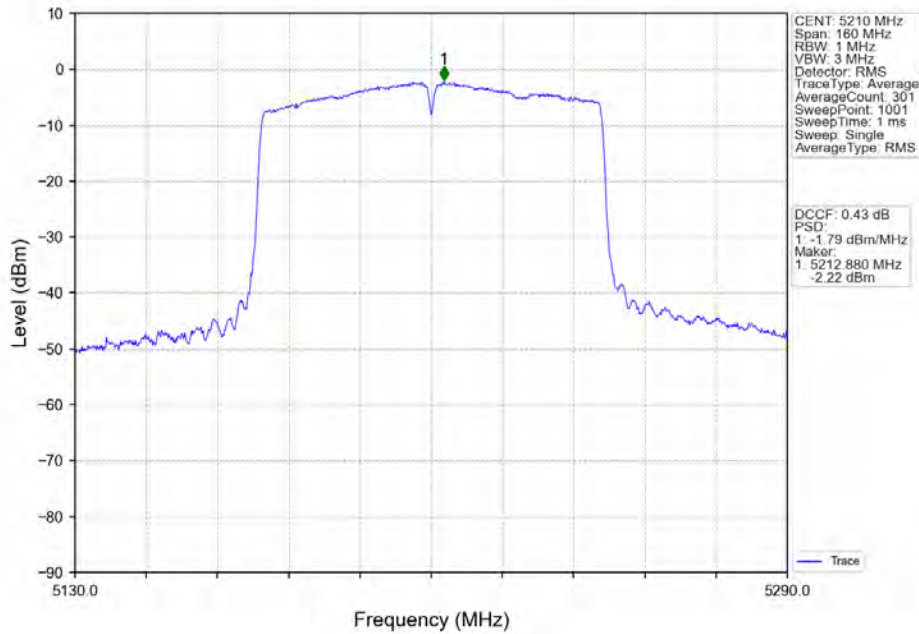
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802.11ac(VHT40) HCH 5670MHz Ant7 NTN



802.11ac(VHT80) MCH 5210MHz Ant7 NTN

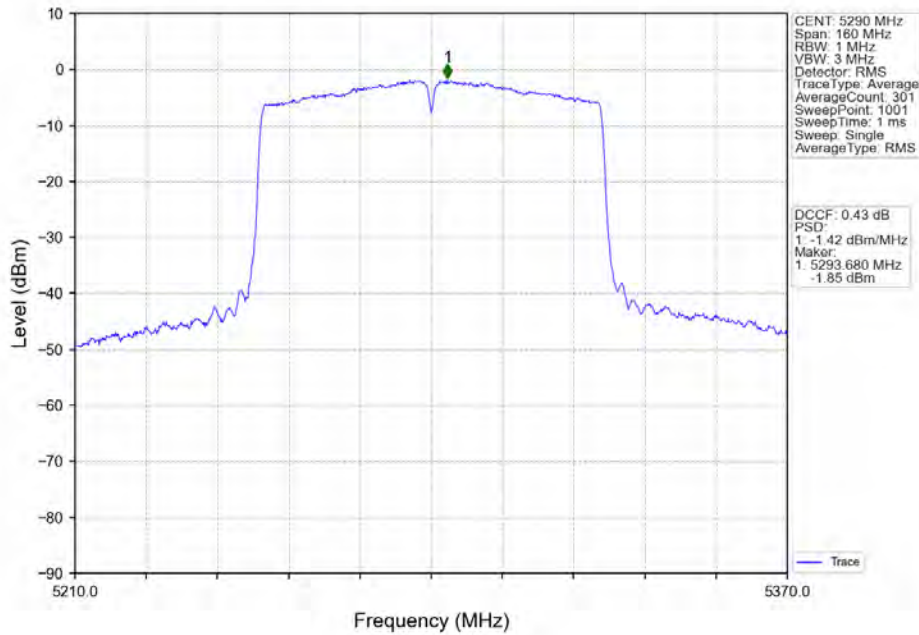


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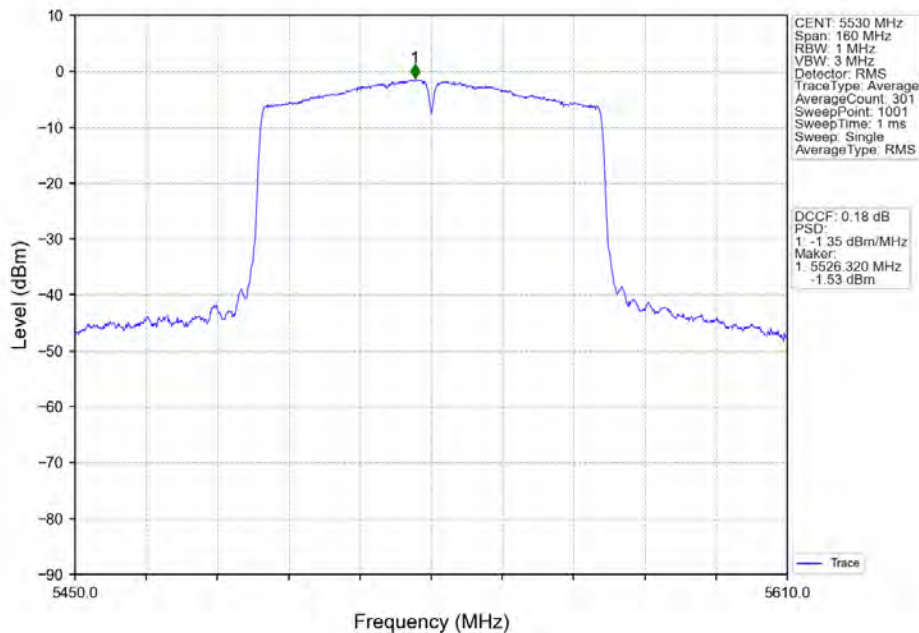
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802.11ac(VHT80) MCH 5290MHz Ant7 NTVN



802.11ac(VHT80) LCH 5530MHz Ant7 NTVN



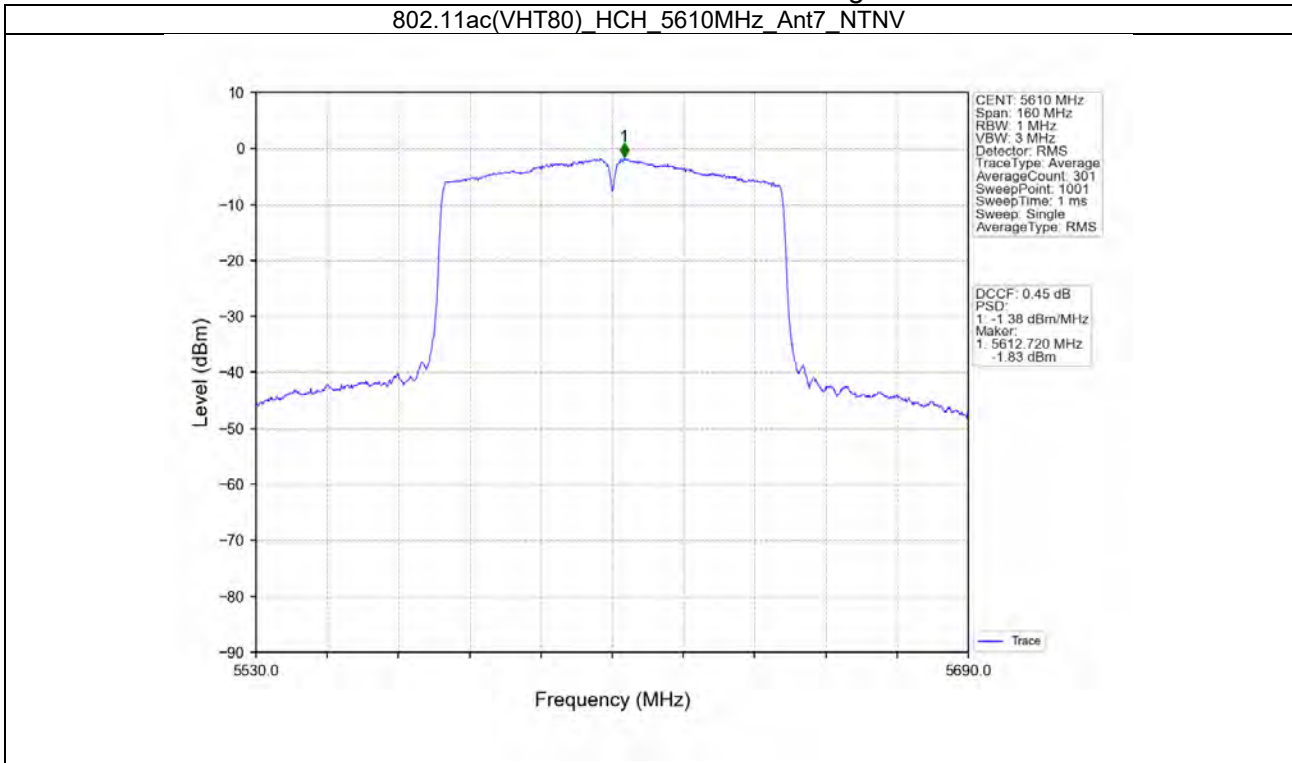
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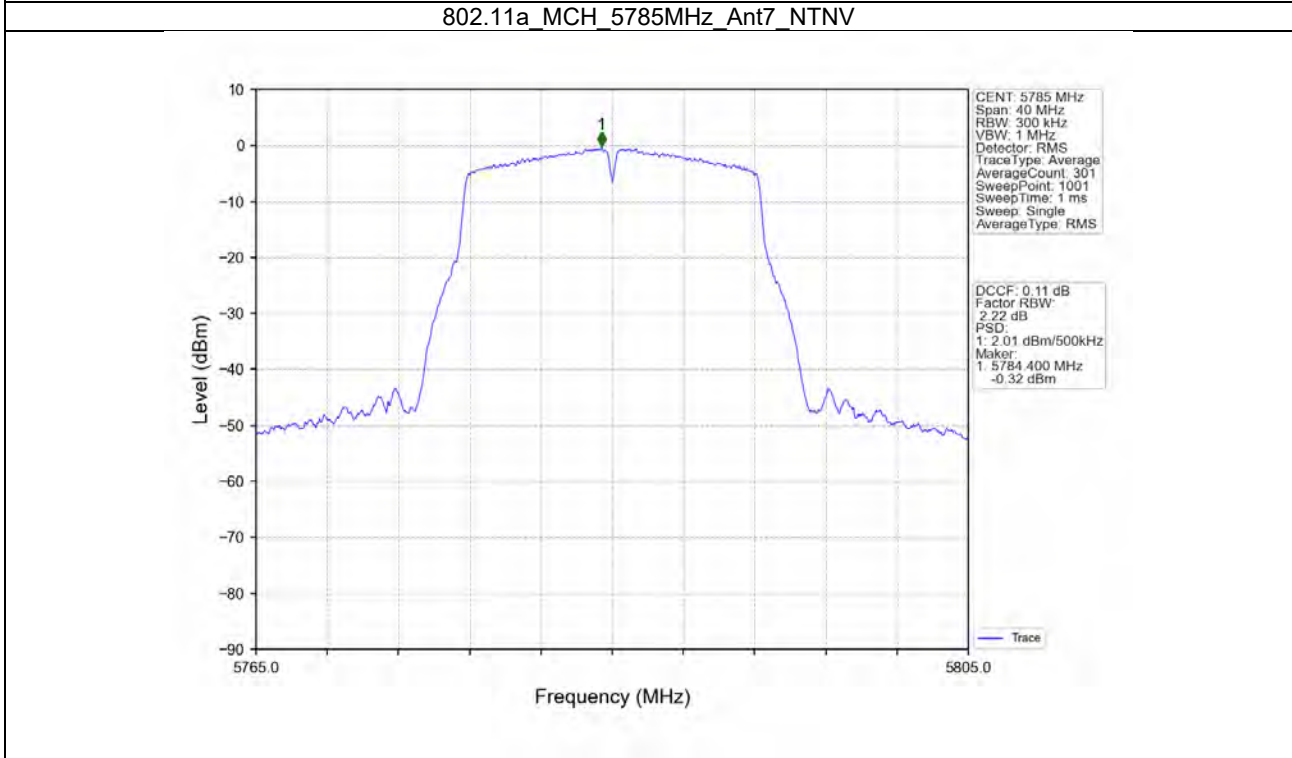
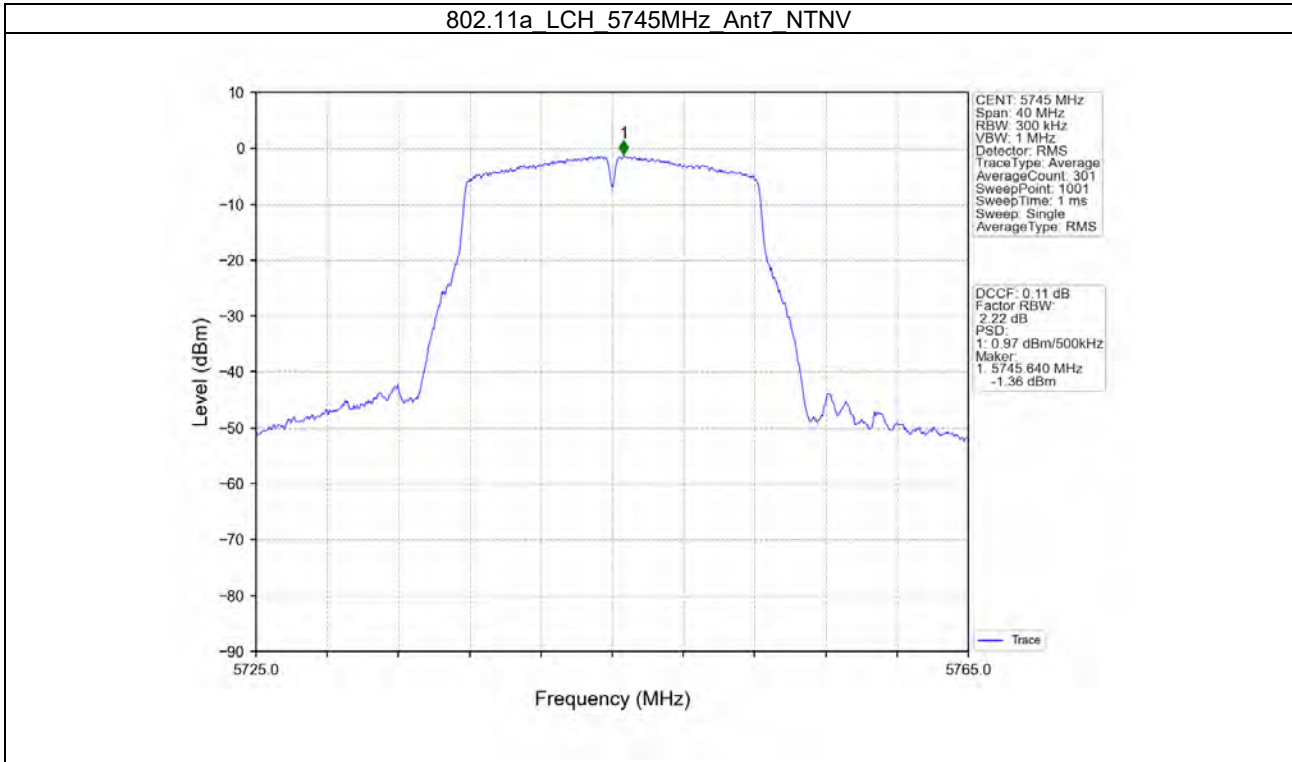


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PSD-Band3

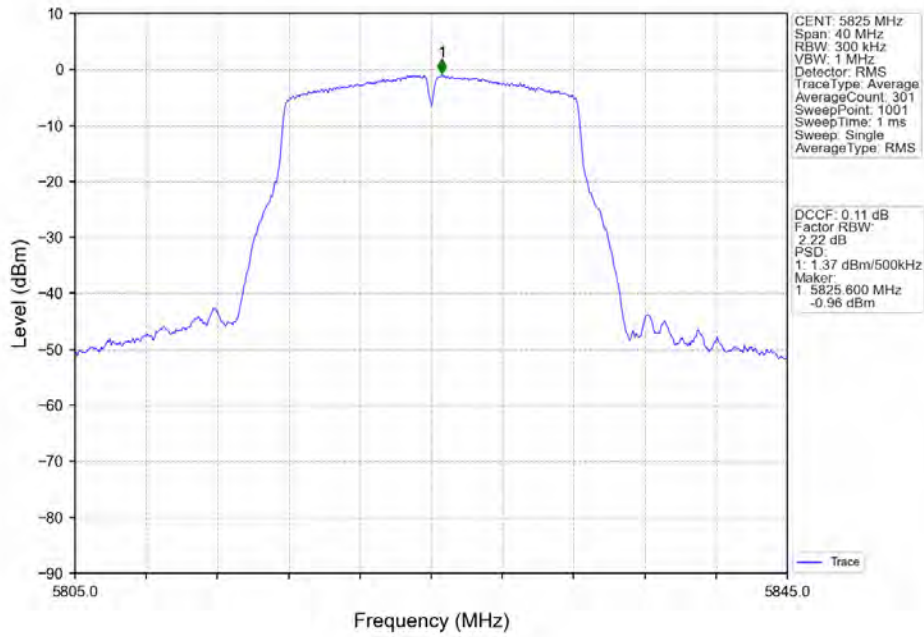


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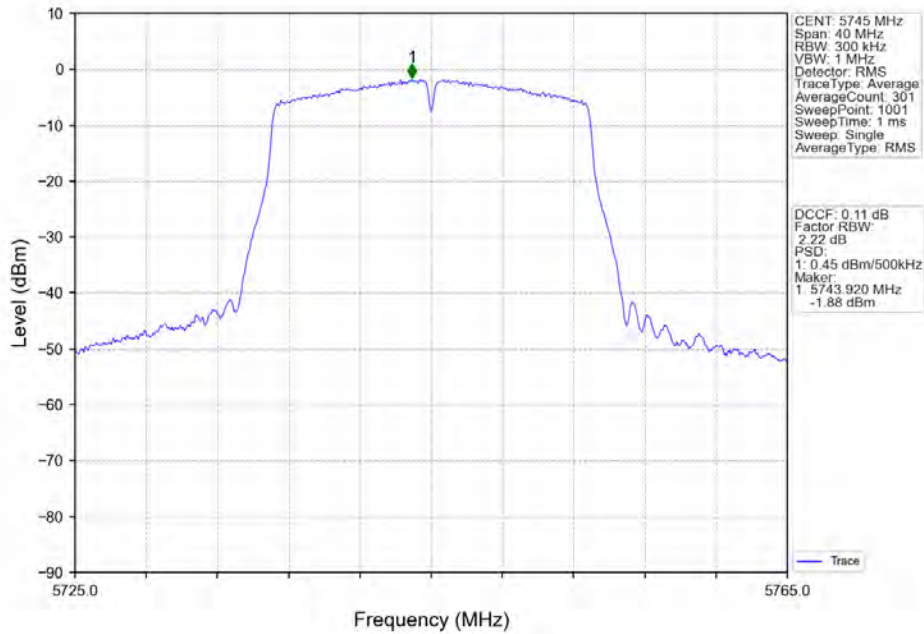
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802.11a\_HCH\_5825MHz\_Ant7\_NTNV



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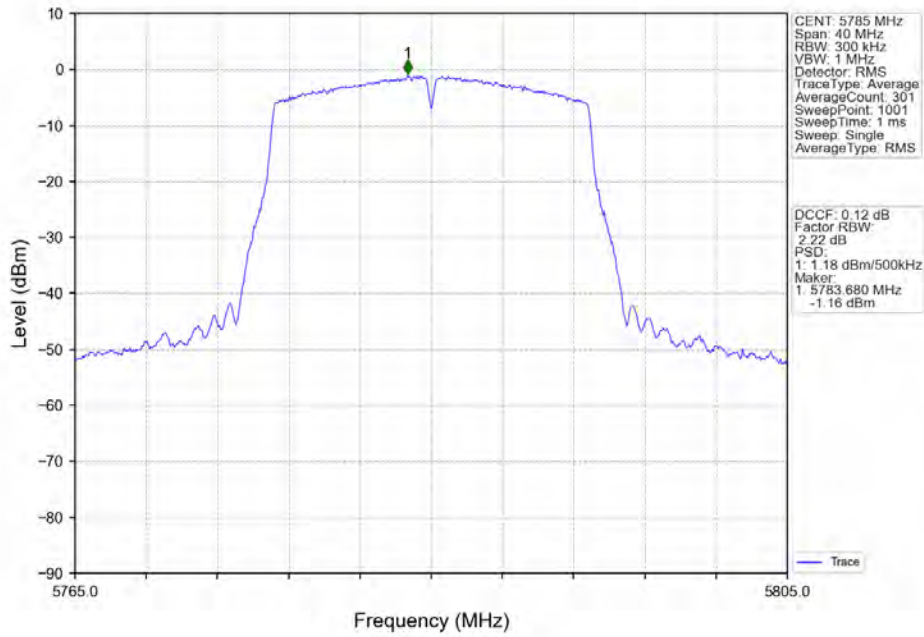
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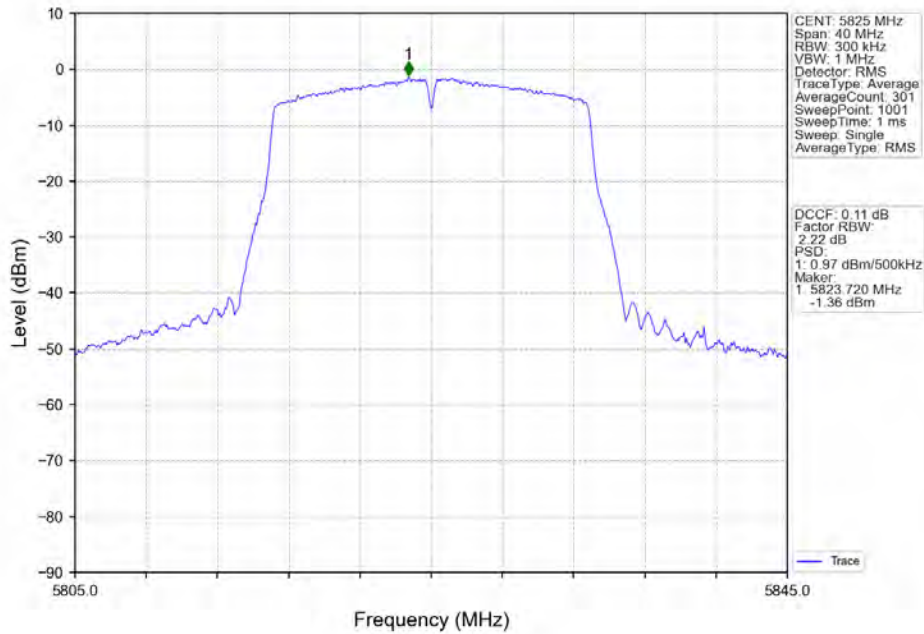
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802.11ac(VHT20) MCH 5785MHz Ant7 NTN



802.11ac(VHT20) HCH 5825MHz Ant7 NTN

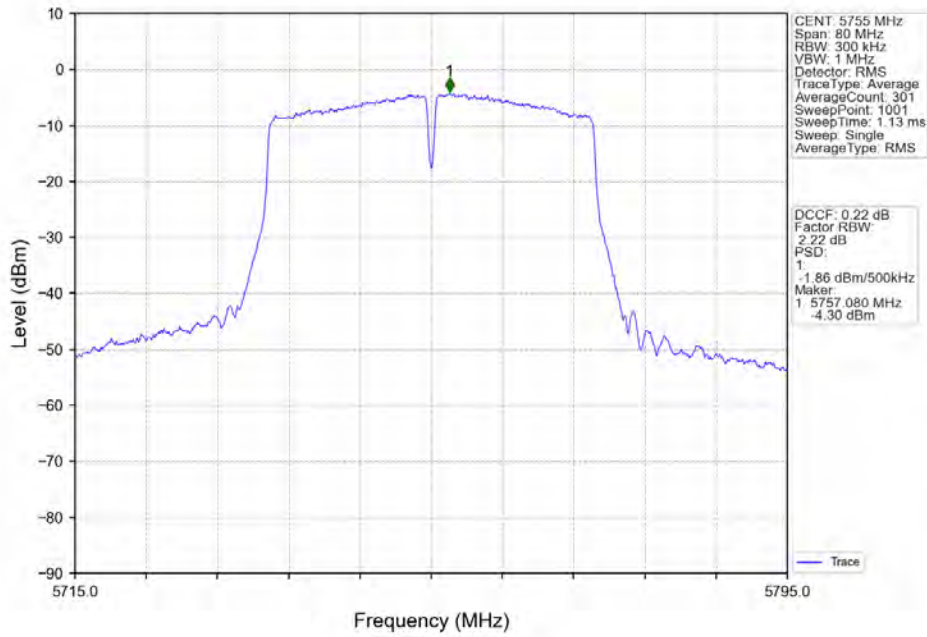


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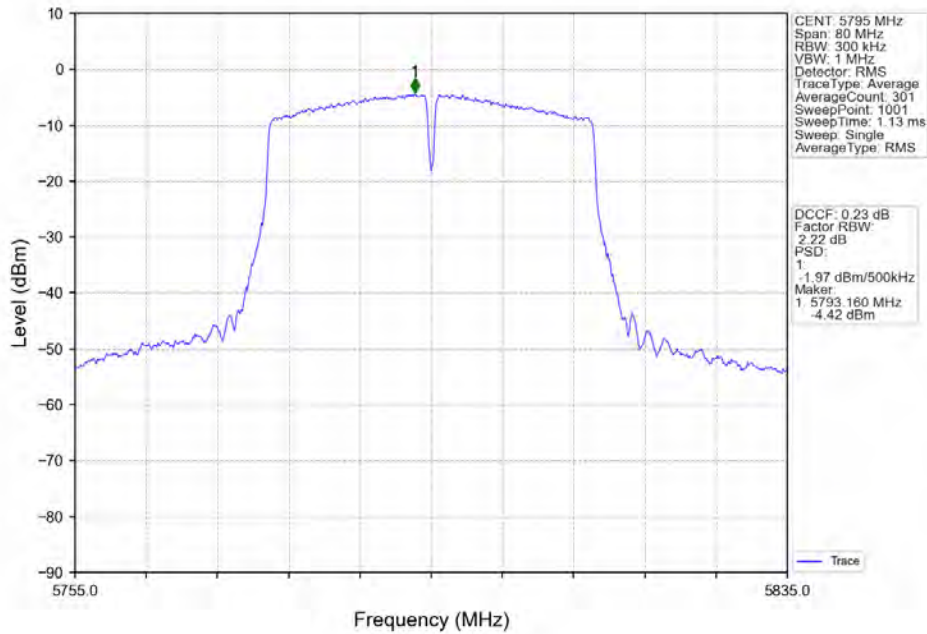
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802.11ac(VHT40) LCH 5755MHz Ant7\_NTNV



802.11ac(VHT40) HCH 5795MHz Ant7\_NTNV



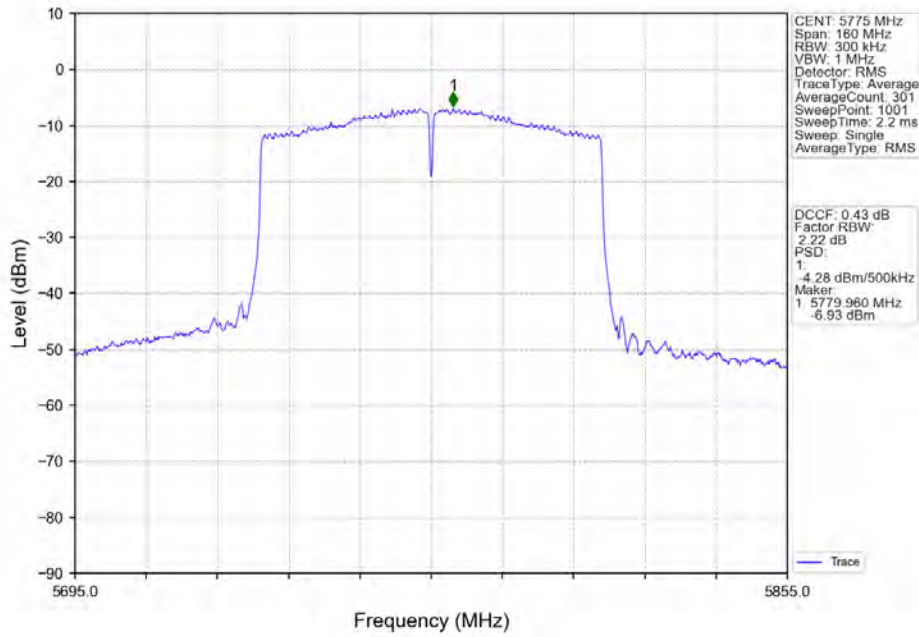
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802.11ac(VHT80) MCH\_5775MHz\_Ant7\_NTNV



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Signal Calibration

Test Result

SC

Band: 2C							
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal		Signal Calibration		Verdict
			Type	Trial Id	Result	Limit	
802.11ac (VHT80)	80	5530	0	0	Refer To Test Graph		Pass
			1	0	Refer To Test Graph		Pass
			2	0	Refer To Test Graph		Pass
			3	0	Refer To Test Graph		Pass
			4	0	Refer To Test Graph		Pass
			5	0	Refer To Test Graph		Pass
			6	0	Refer To Test Graph		Pass



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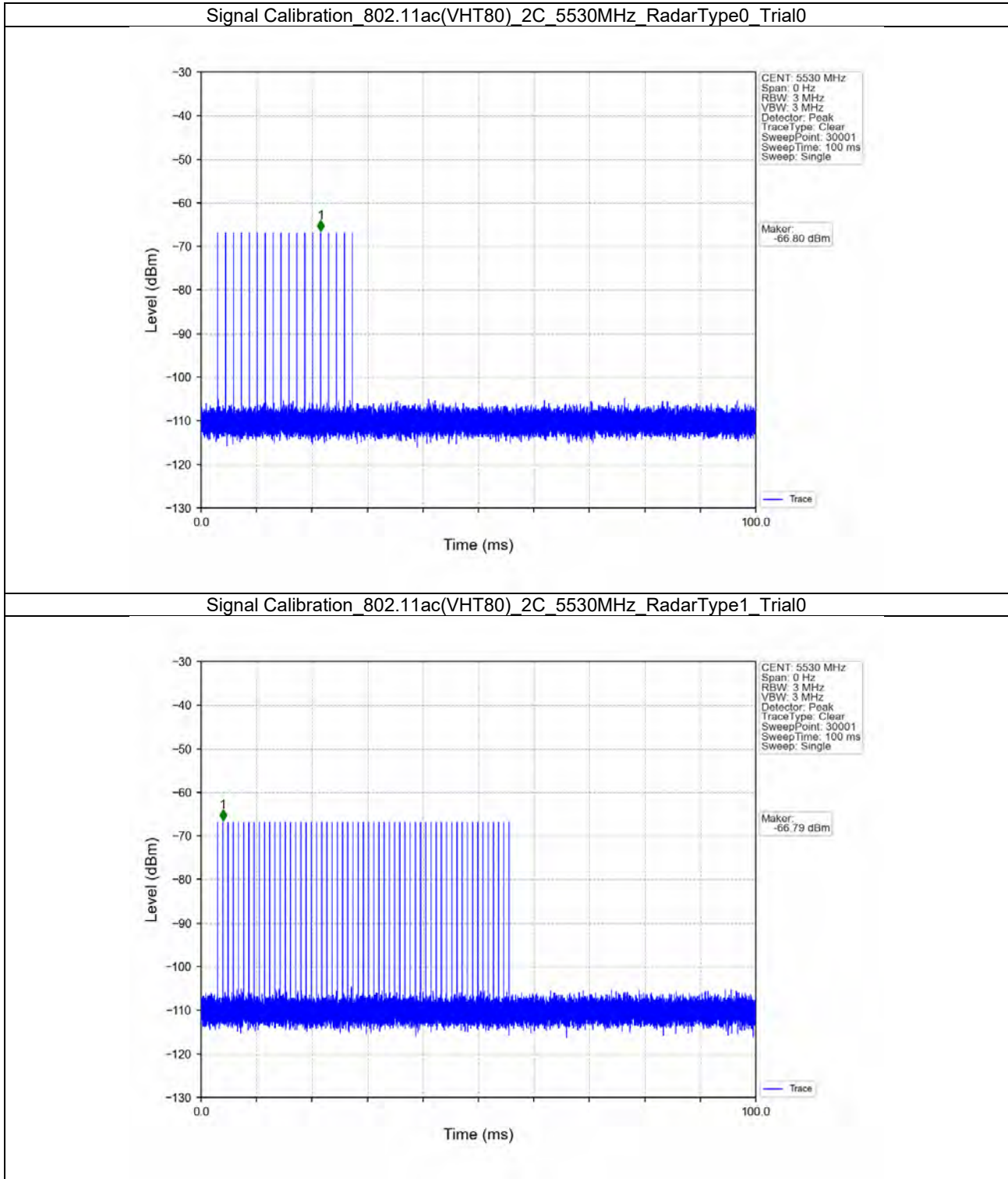
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Test Graph

SC



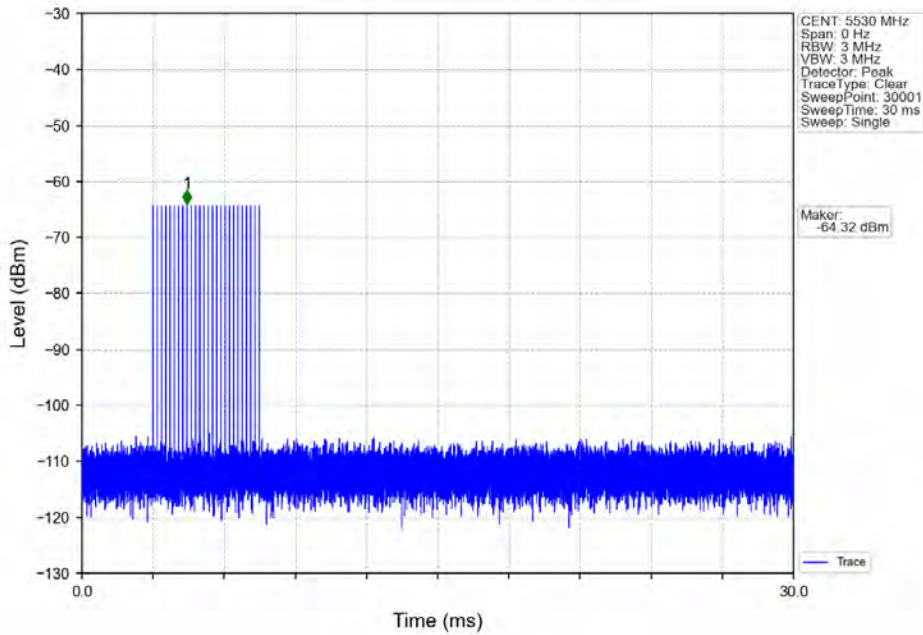
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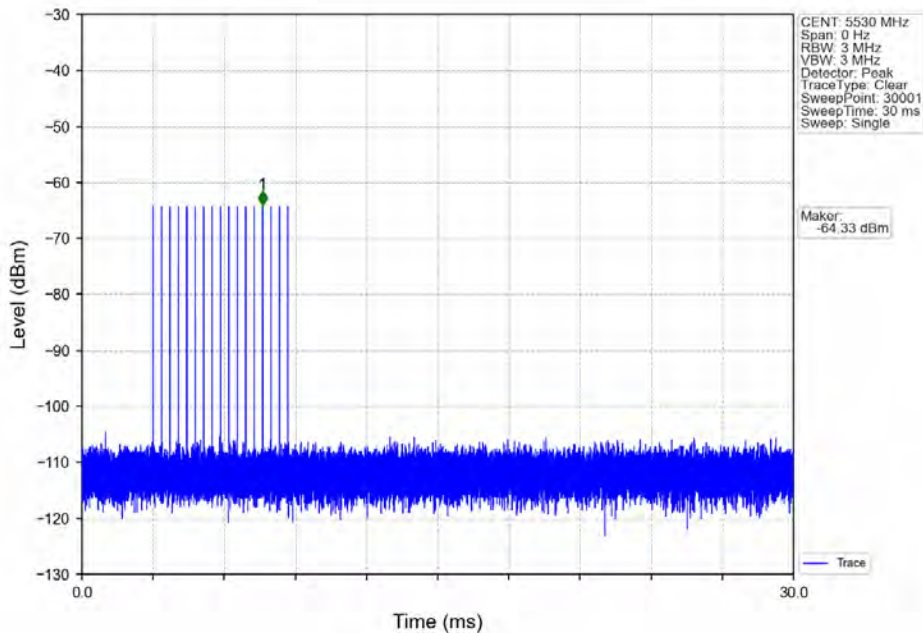
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Signal Calibration\_802.11ac(VHT80)\_2C\_5530MHz\_RadarType2\_Trial0



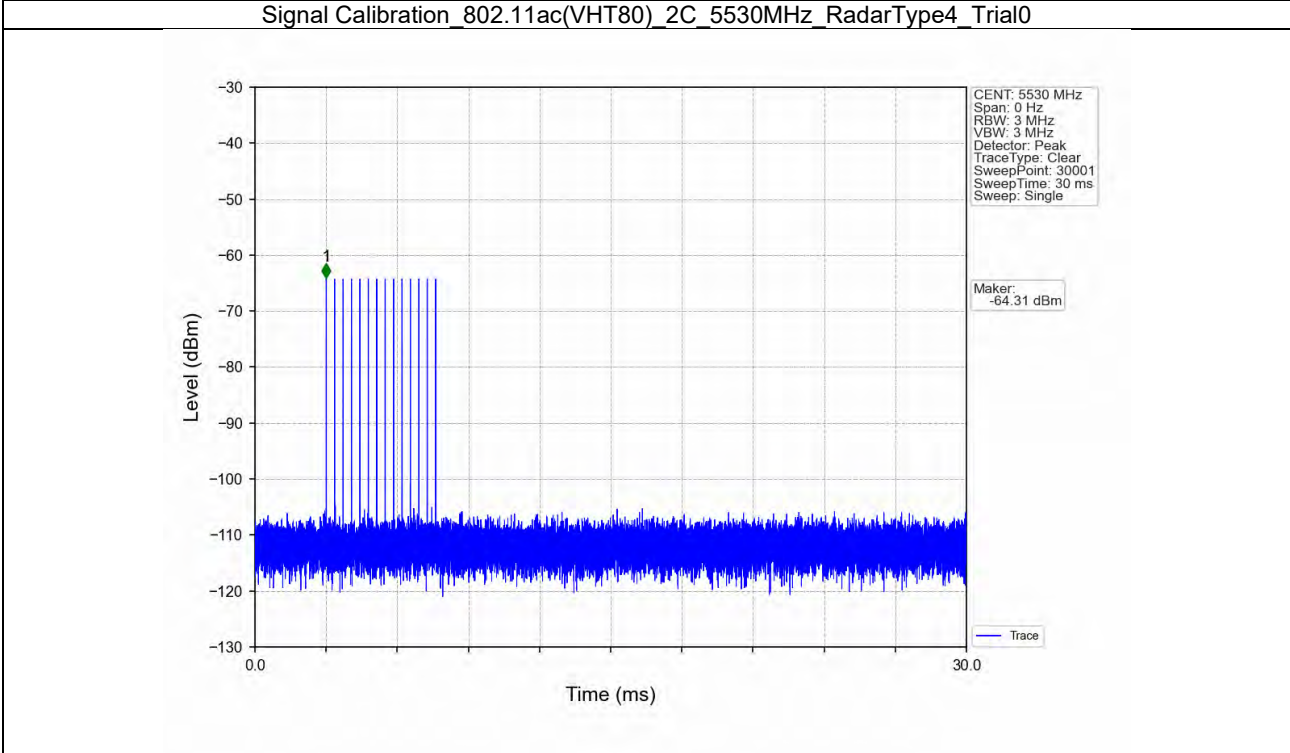
Signal Calibration\_802.11ac(VHT80)\_2C\_5530MHz\_RadarType3\_Trial0



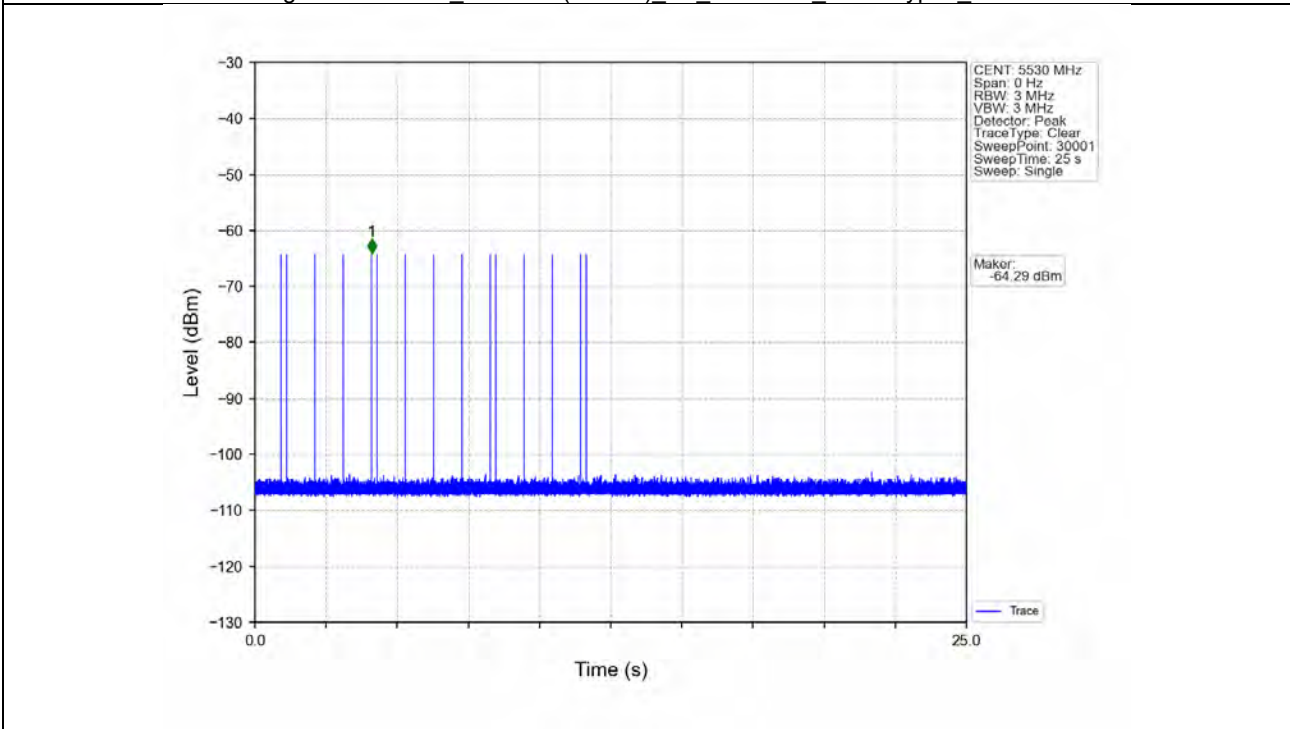
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Signal Calibration\_802.11ac(VHT80)\_2C\_5530MHz\_RadarType4\_Trial0



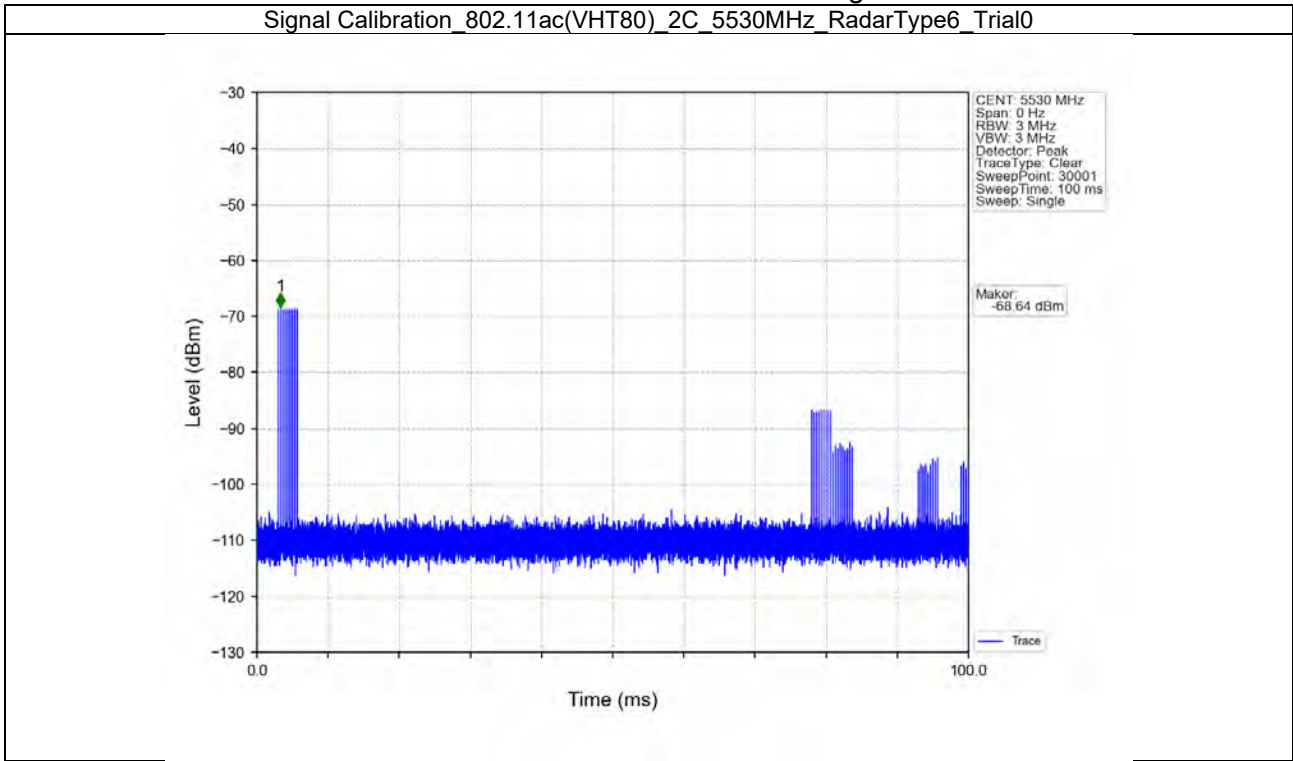
Signal Calibration\_802.11ac(VHT80)\_2C\_5530MHz\_RadarType5\_Trial0



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Signal Calibration\_802.11ac(VHT80)\_2C\_5530MHz\_RadarType6\_Trial0



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Report No.: SUCR240200003407

Rev.: 01

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## Channel Loading (Payload)

### Test Result

#### Payload

Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Loading (Payload) (%)		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5530	42.69	>=17	Pass



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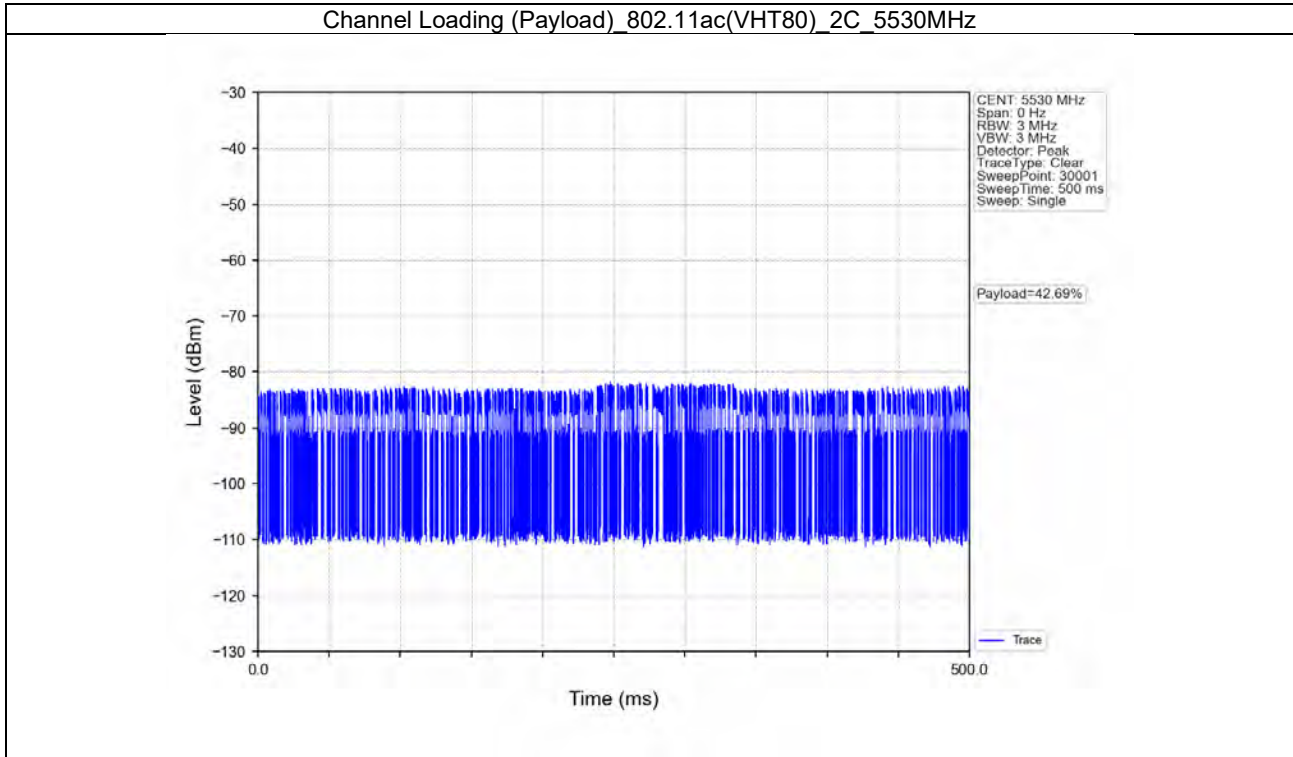
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Test Graph

Payload



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Report No.: SUCR240200003407

Rev.: 01

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## Channel Move Time and Closing Transmission Time

### Test Result

CMT\_CTT

Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Move Time and Closing Transmission Time		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5530	Refer To Test Graph		Pass



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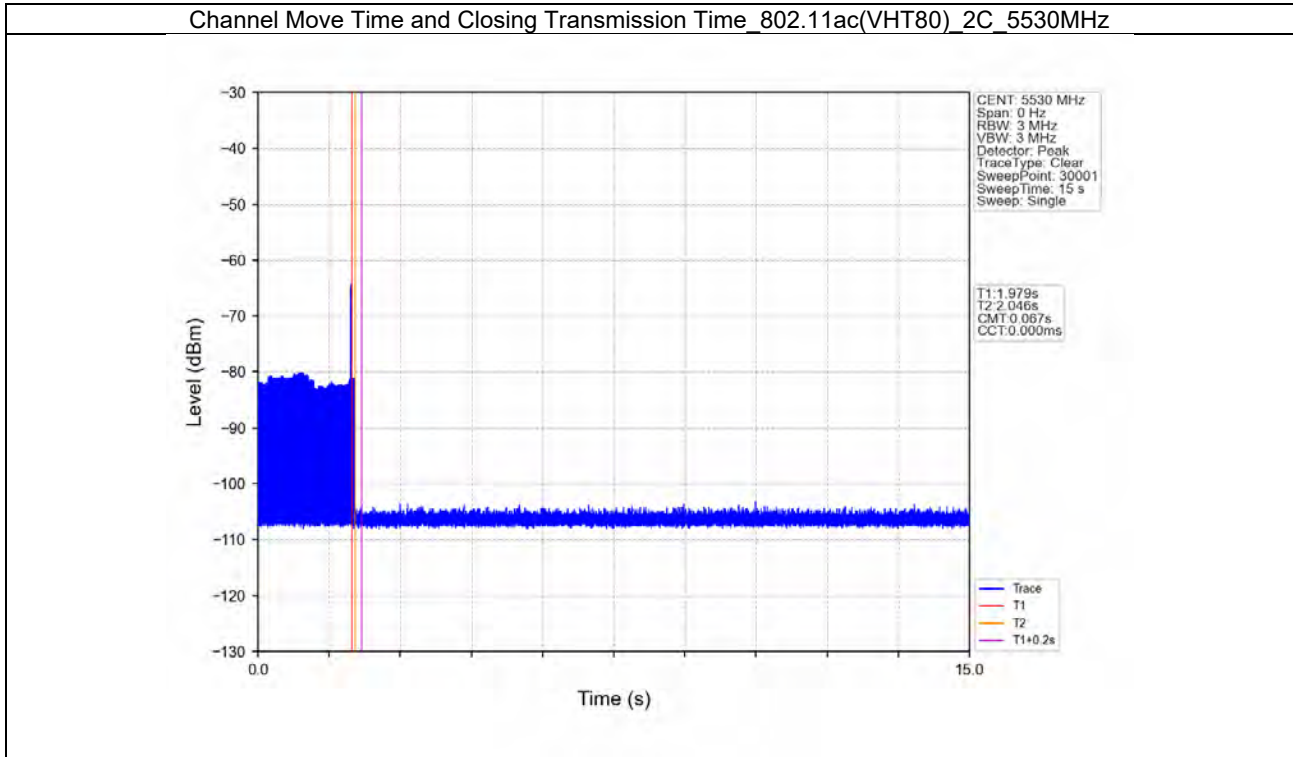
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Test Graph

CMT\_CTT



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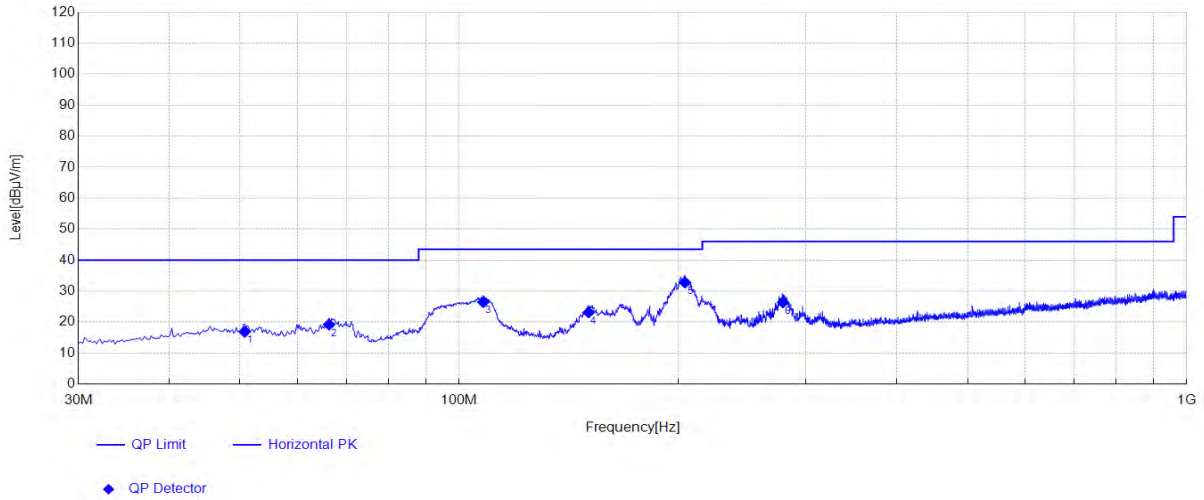
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## Radiated Spurious Emissions

### Radiated emission below 1GHz

Worst case Mode: 802.11ac80\_Channel 106

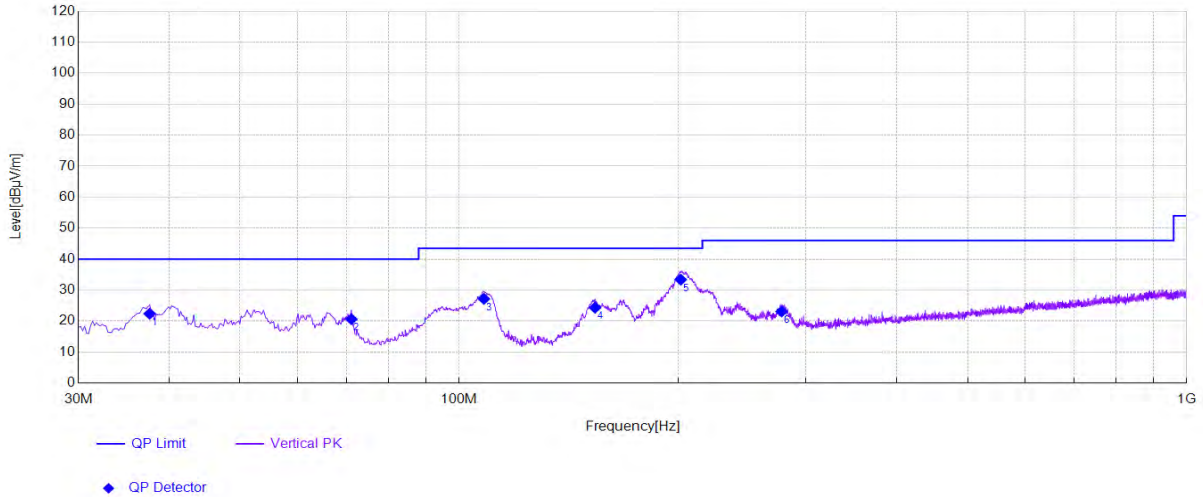


Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	50.7622	13.87	-27.48	30.51	16.90	40.00	23.10	Horizontal
2	66.2853	11.56	-26.96	34.6	19.20	40.00	20.80	Horizontal
3	108.0036	11.80	-26.65	41.31	26.46	43.50	17.04	Horizontal
4	150.6921	7.36	-26.49	42.26	23.13	43.50	20.37	Horizontal
5	204.4409	11.22	-26.25	47.8	32.77	43.50	10.73	Horizontal
6	278.7578	12.90	-25.60	39.07	26.37	46.00	19.63	Horizontal



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Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	37.5675	12.27	-27.71	37.83	22.39	40.00	17.61	Vertical
2	71.1362	8.52	-26.87	38.99	20.64	40.00	19.36	Vertical
3	108.1976	11.78	-26.64	42.05	27.19	43.50	16.31	Vertical
4	153.7968	7.90	-26.44	42.89	24.35	43.50	19.15	Vertical
5	201.7243	11.33	-26.18	48.23	33.38	43.50	10.12	Vertical
6	277.5935	12.90	-25.53	35.74	23.11	46.00	22.89	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:  
 $Value = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$   
 $AF = Antenna\ Factor(dB/m)$   
 $Factor = Cable\ Factor(dB) - Preamplifier\ gain(dB)$   
 $Margin = Limit(dB\mu V/m) - Value(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.

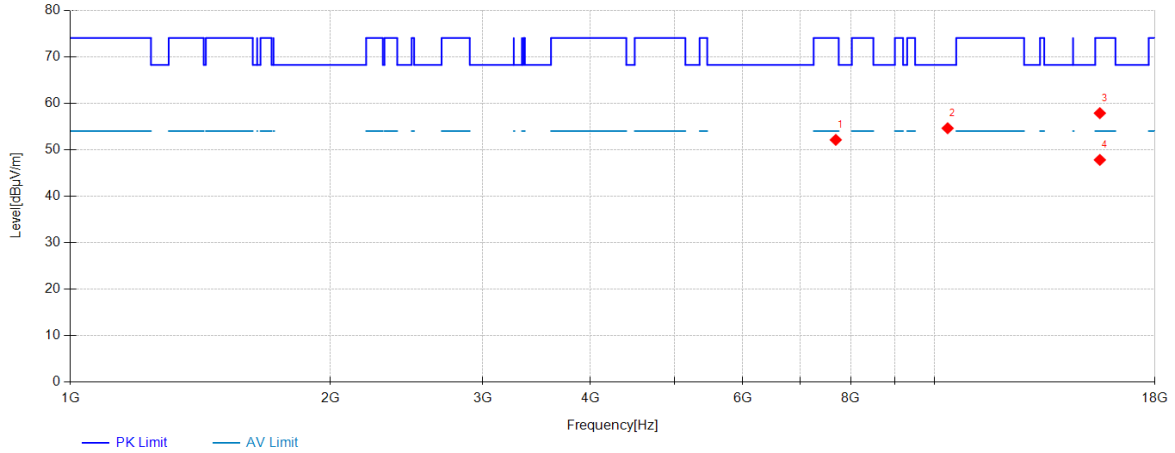


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### Transmitter emission Above 1GHz

#### 802.11a\_Channel 36



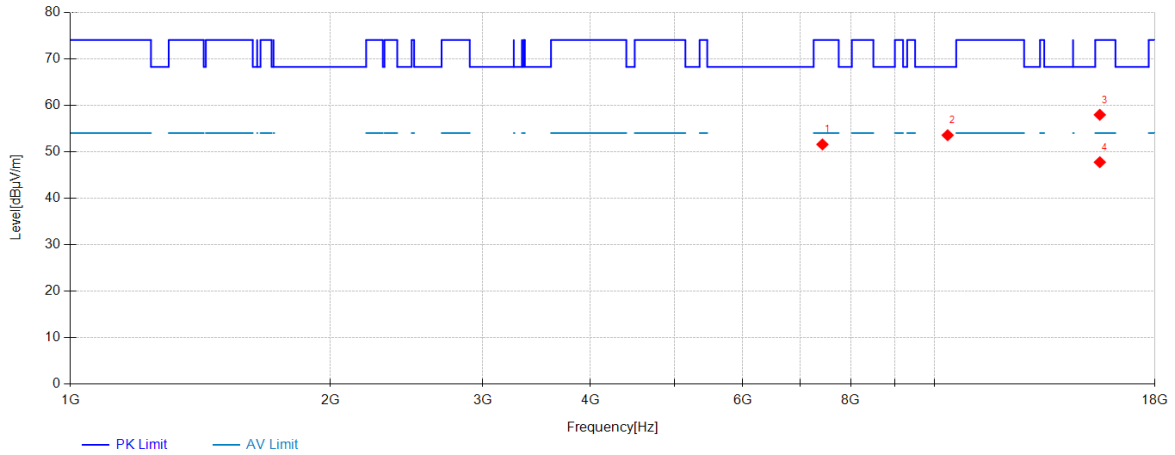
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7689.5	53.49	36.76	-38.15	52.10	74.00	21.90	Horizontal
2	10360	50.97	39.16	-35.53	54.60	68.20	13.60	Horizontal
3	15540	47.90	38.74	-28.80	57.84	74.00	16.16	Horizontal
4	15540	37.85	38.74	-28.80	47.79	54.00	6.21	Horizontal



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802.11a\_Channel 36



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7421	53.22	36.74	-38.41	51.55	74.00	22.45	Vertical
2	10360	49.90	39.16	-35.53	53.53	68.20	14.67	Vertical
3	15540	47.98	38.74	-28.80	57.92	74.00	16.08	Vertical
4	15540	37.79	38.74	-28.80	47.73	54.00	6.27	Vertical



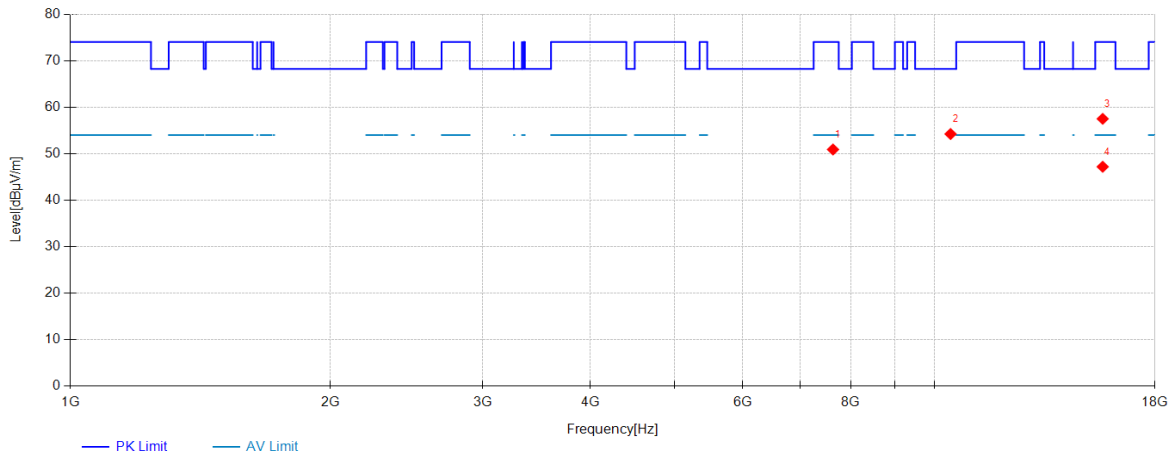
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802.11a\_Channel 44



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7632.5	52.42	36.67	-38.20	50.89	74.00	23.11	Horizontal
2	10440	50.70	39.08	-35.56	54.22	68.20	13.98	Horizontal
3	15660	48.27	38.50	-29.29	57.48	74.00	16.52	Horizontal
4	15660	37.97	38.50	-29.29	47.18	54.00	6.82	Horizontal

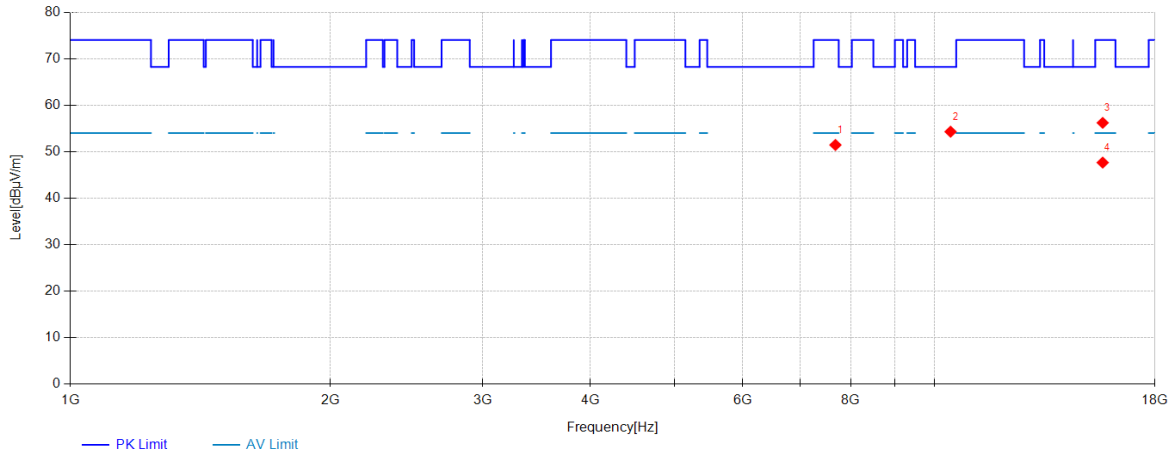


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802.11a\_Channel 44



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7682	52.83	36.73	-38.13	51.43	74.00	22.57	Vertical
2	10440	50.77	39.08	-35.56	54.29	68.20	13.91	Vertical
3	15660	46.98	38.50	-29.29	56.19	74.00	17.81	Vertical
4	15660	38.44	38.50	-29.29	47.65	54.00	6.35	Vertical



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