

Report No.: SUCR240400012705

Rev.: 01

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TEST REPORT

Application No.: SUCR2404000127MO
Applicant: TP-Link Systems Inc.
Address of Applicant: 10 Mauchly, Irvine, CA 92618
Manufacturer: TP-Link Systems Inc.
Address of Manufacturer: 10 Mauchly, Irvine, CA 92618
EUT Description: 5G Mobile Wi-Fi
Model No.: M8550
Trade Mark: tp-link
FCC ID: 2BH7FM8550
Standards: FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2024/04/23
Date of Test: 2024/05/10 to 2024/08/29
Date of Issue: 2024/09/02

Test Result :**PASS ***

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

Authorized Signature:



Cloud Peng
Technical Manager



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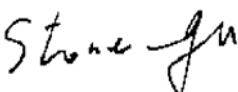
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024/09/02		Original

Prepared By		 (Ives Cheng) / Test Engineer
Checked By		 (Stone Gu) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Requirements	Test Result	Result
Antenna Requirement	15.203/15.407(a)	--	Clause 4.1	PASS
AC Power Line Conducted Emissions	15.407(b)(8)	< FCC 15.207 limits	Clause 4.2	PASS
Duty Cycle	--	No limit.	Clause 4.3	For Report Purpose
Maximum e.i.r.p.	15.407(a)(5)	the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.	Clause 4.4	PASS
26dB Emission Bandwidth	15.407(a)(11)	The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.	Clause 4.5	PASS
99% Occupied Bandwidth	-	No limit.	Clause 4.6	For Report Purpose
Maximum Power Spectral Density	15.407(a)(5)	not exceed 5 dBm e.i.r.p. in any 1-megahertz band	Clause 4.7	PASS
In-Band Emissions	15.407(b)(7)	EUT must meet the limits detailed in 15.407(b)(6)	Clause 4.8	PASS
Contention Based Protocol	15.407(d)(6)	EUT must detect AWGN signal with 90% (or better) certainty	Clause 4.9	PASS
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	15.407(b)(6) 15.205, 15.209	< -27dBm/MHz e.i.r.p. outside of the 5.925 - 7.125GHz band	Clause 4.10	PASS
Unwanted Emissions in the Restricted Bands (Radiated)	15.407(b)(6) 15.205, 15.209	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Clause 4.11	PASS



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3 General Information

3.1 Details of Client

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

3.2 Test Location

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

3.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

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

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

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

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	5G Mobile Wi-Fi	
Model No.:	M8550	
Trade Mark:	tp-link	
Hardware Version:	V1.0	
Software Version:	V1.0	
IMEI:	RF Conducted	Sample1:352921970001450 Sample2:352921970001468
	RSE & AC power line	352921970001443
IEEE 802.11 WLAN Mode Supported:	☒ 802.11ax (20 MHz channel bandwidth) ☒ 802.11ax (40 MHz channel bandwidth) ☒ 802.11ax (80 MHz channel bandwidth) ☒ 802.11ax (160 MHz channel bandwidth)	
Operation Frequency:	IEEE 802.11 ax(HE20/40/80/160): 5925 MHz ~ 6425 MHz IEEE 802.11 ax(HE20/40/80/160): 6425 MHz ~ 6525 MHz IEEE 802.11 ax(HE20/40/80/160): 6525 MHz ~ 6875 MHz IEEE 802.11 ax(HE20/40/80/160): 6875 MHz ~ 7125 MHz	
Type of Modulation:	OFDM/OFDMA	
FCC Classification:	6GHz Low Power Indoor Access Point (6ID)	
Antenna Type:	Internal Antenna	
Smart System:	☐ SISO	802.11ax
	☒ MIMO	TXBF: 802.11ax: 2Tx & 2Rx
	☐ Diversity	802.11a: 2Tx & 2Rx
Antenna Gain:	5925 MHz to 6425 MHz: 3.97dBi(Ant1); 3.97dBi(Ant2); 6425 MHz to 6525 MHz: 3.92dBi(Ant1); 3.92dBi(Ant2); 6525 MHz to 6875 MHz: 3.92dBi(Ant1); 3.92dBi(Ant2); 6875 MHz to 7125 MHz: 4.2dBi(Ant1); 4.2dBi(Ant2);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	2.5dB	
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information. 802.11a only supports non-Beamforming mode; 802. ax (HE20)/ ax (HE40) / ax (HE80)/ ax (HE160) supports non-Beamforming and Beamforming mode;		



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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, 1 near low end

For UNII-5:

Mode	Channel	Frequency(MHz)
IEEE 802.11ax 20MHz	1	5955
	45	6175
	93	6415
IEEE 802.11ax 40MHz	3	5965
	43	6165
	91	6405
IEEE 802.11ax 80MHz	7	5985
	39	6145
IEEE 802.11ax160MHz	15	6025
	47	6185
	79	6345

For UNII-6:

Mode	Channel	Frequency(MHz)
IEEE 802.11ax 20MHz	97	6435
	105	6475
	113	6515
IEEE 802.11ax 40MHz	99	6445
	107	6485
	115	6525
IEEE 802.11ax 80MHz	87	6385
	103	6465
IEEE 802.11ax160MHz	111	6505



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For UNII-7:		
Mode	Channel	Frequency(MHz)
IEEE 802.11ax 20MHz	117	6535
	149	6695
	181	6855
	185	6875
IEEE 802.11ax 40MHz	123	6565
	147	6685
	179	6845
IEEE 802.11ax 80MHz	119	6545
	135	6625
	151	6705
	167	6785
	183	6865
IEEE 802.11ax160MHz	143	6665
	175	6825

For UNII-8:		
Mode	Channel	Frequency(MHz)
IEEE 802.11ax 20MHz	189	6895
	209	6995
IEEE 802.11ax 40MHz	187	6885
	195	6925
	203	6965
	227	7085
IEEE 802.11ax 80MHz	199	6945
	215	7025
IEEE 802.11ax160MHz	207	6985



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3.5 Test Environment and Mode

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

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

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

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)
802.11ax (HE 80)	/	MCS0 (68 Mbps)
802.11ax (HE 160)	/	MCS0 (136 Mbps)



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
The antenna is Internal Antenna and no consideration of replacement. The best case gain of the antenna is 5925 MHz to 6425 MHz: 3.97dBi(Ant1); 3.97dBi(Ant2);* 6425 MHz to 6525 MHz: 3.92dBi(Ant1); 3.92dBi(Ant2);* 6525 MHz to 6875 MHz: 3.92dBi(Ant1); 3.92dBi(Ant2);* 6875 MHz to 7125 MHz: 4.2dBi(Ant1); 4.2dBi(Ant2);.* <i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i> <i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i>	



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Directional Gain Calculations for MIMO:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

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

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

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

The EUT supports CDD System.

All antennas have the same gain:

Freq.(MHz)	TX Paths	Numer of spatial streams	Max Antenna Gain(dBi)	Beamforming Directional Gain(dBi)	Power DG (dBi)	PSD DG (dBi)
5925 MHz to 6425 MHz	2	1	3.97	6.98	3.97	6.98
6425 MHz to 6525 MHz	2	1	3.92	6.93	3.92	6.93
6525 MHz to 6875 MHz	2	1	3.92	6.93	3.92	6.93
6875 MHz to 7125 MHz	2	1	4.2	7.21	4.2	7.21



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 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.		



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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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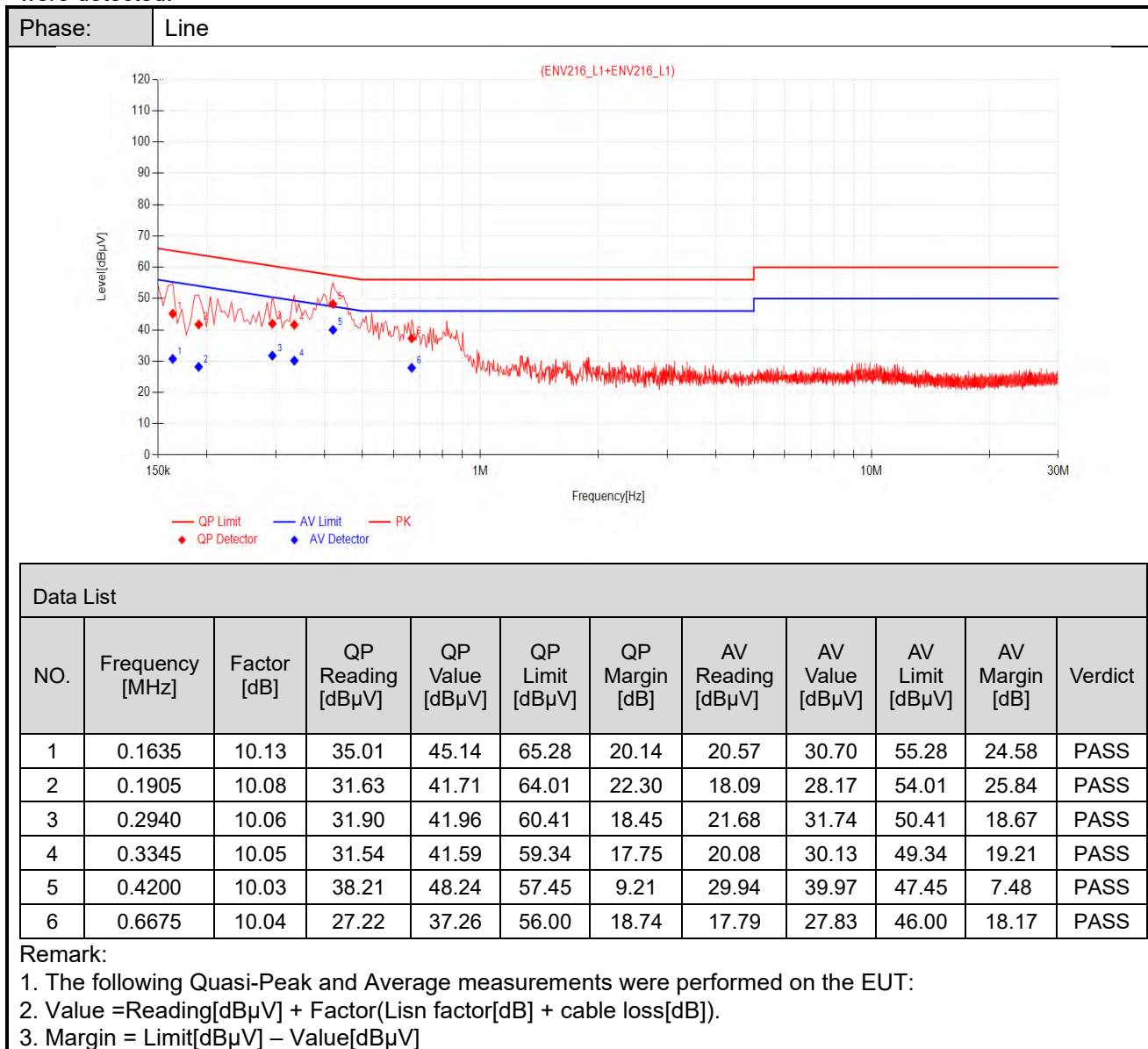
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Measurement Data

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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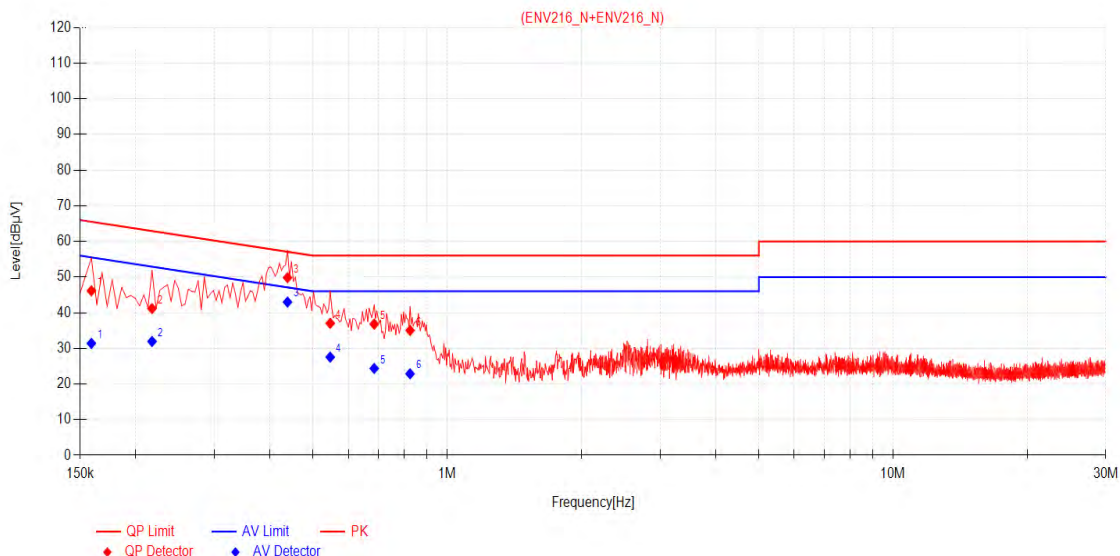
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Phase: Neutral



Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1590	10.15	35.98	46.13	65.52	19.39	21.24	31.39	55.52	24.13	PASS
2	0.2175	10.13	31.02	41.15	62.91	21.76	21.81	31.94	52.91	20.97	PASS
3	0.4380	10.15	39.68	49.83	57.10	7.27	32.84	42.99	47.10	4.11	PASS
4	0.5460	10.10	26.93	37.03	56.00	18.97	17.44	27.54	46.00	18.46	PASS
5	0.6855	10.04	26.77	36.81	56.00	19.19	14.32	24.36	46.00	21.64	PASS
6	0.8250	9.98	25.05	35.03	56.00	20.97	12.88	22.86	46.00	23.14	PASS

Remark:

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



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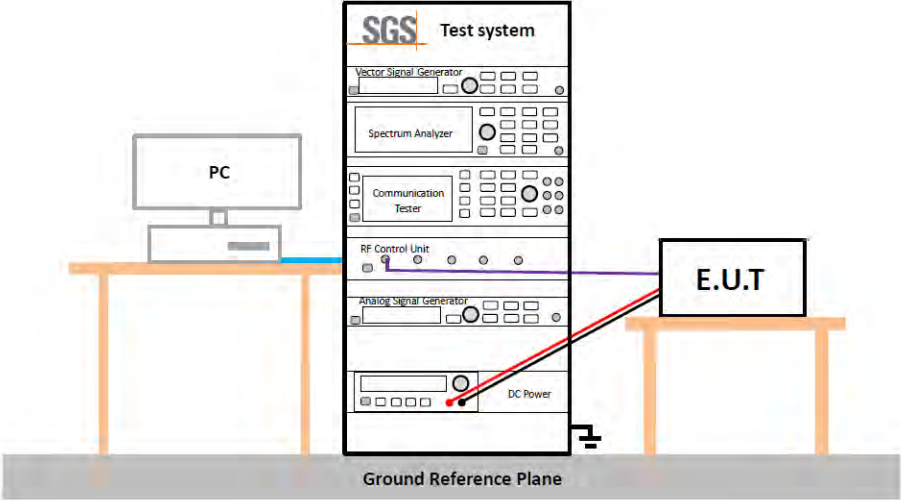
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4.3 Duty Cycle

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: Appendix	



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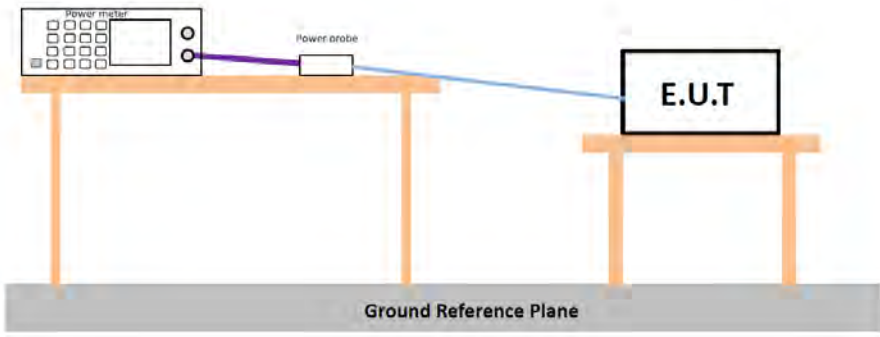
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4.4 Maximum e.i.r.p.

Test Requirement:	47 CFR Part 15 Section 15.407(a)(5)
Test Method:	ANSI C63.10 :2013 Section11.9.2.3
Test Setup:	 * Test with power meter (Detector function: Average)
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
Test Results:	Pass
The detailed test data see: Appendix	



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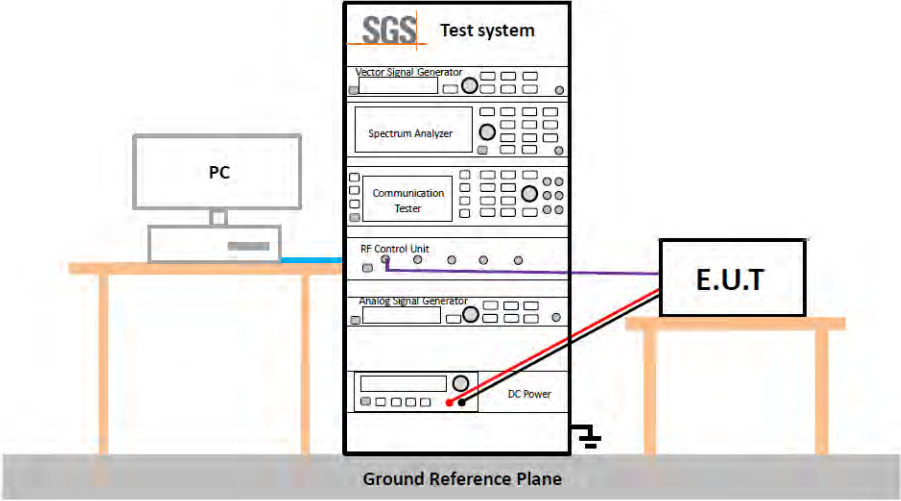
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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 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:	The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.
Test Results:	Pass
The detailed test data see: Appendix	



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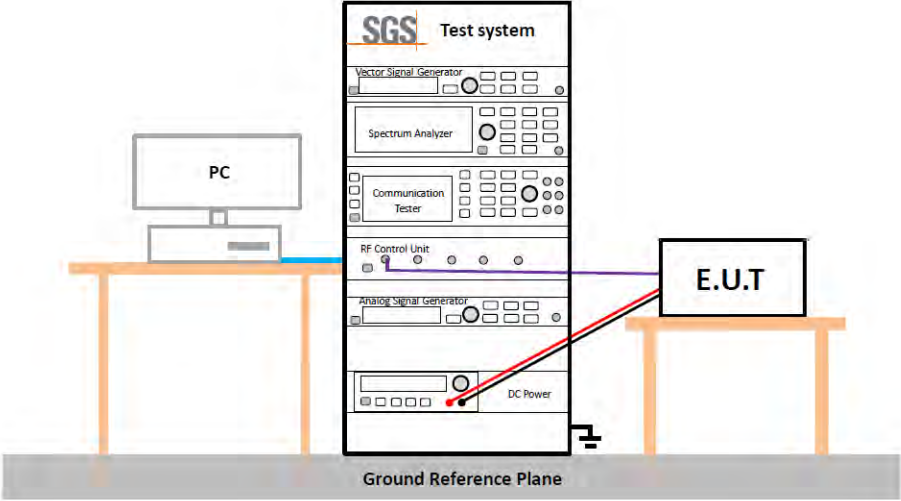
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4.6 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013 Section 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For report purpose
The detailed test data see: Appendix	



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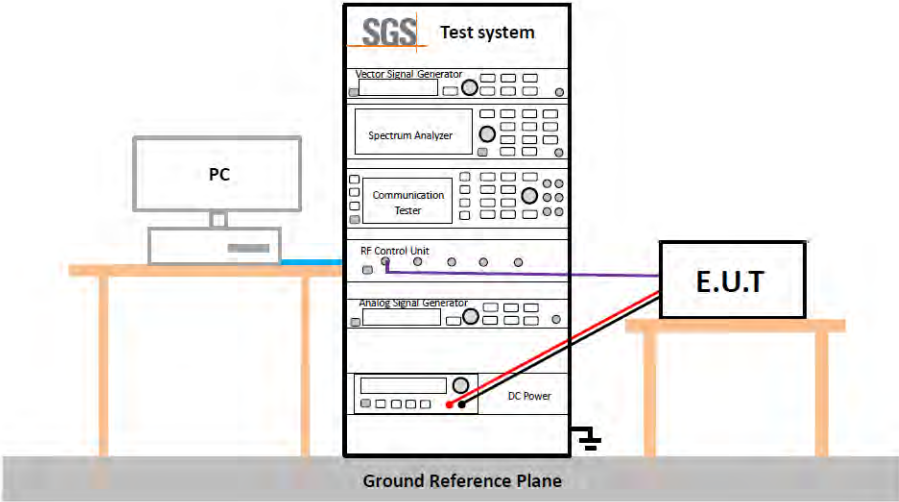
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4.7 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)(5)
Test Method:	ANSI C63.10: 2013 Section 11.10.2 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:	For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band.
Test Results:	Pass
The detailed test data see: Appendix	



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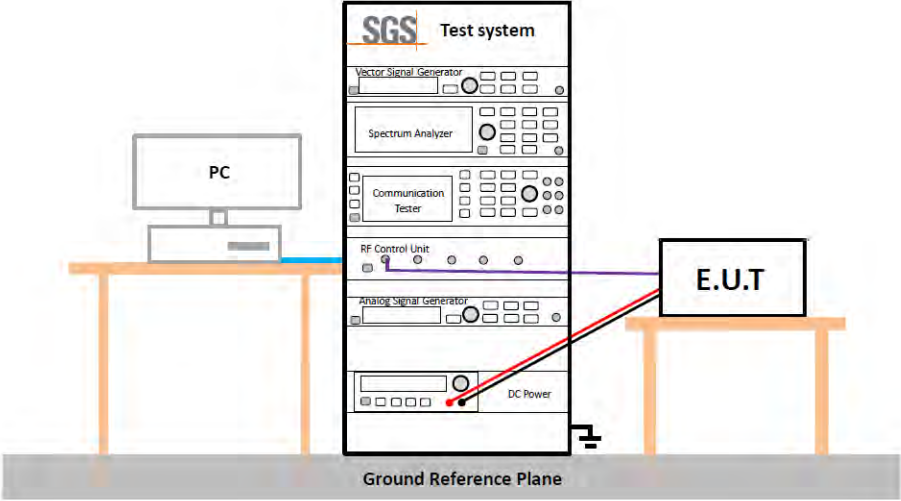
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4.8 In-Band Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)(7)
Test Method:	KDB 987594 D02 U-NII 6GHz EMC Measurement v01
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. Only the worst case is recorded in the report.
Limit:	For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.
Test Results:	Pass
The detailed test data see: Appendix	



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4.9 Contention Based Protocol

Test Requirement:	47 CFR Part 15 Section 15.407(d)
Test Method:	ANSI C63.10: 2013 KDB 987594 D02 U-NII 6GHz EMC Measurement v01
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Test Procedure:	1) Configure the EUT to transmit with a constant duty cycle. 2) Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth. 3) Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver. 4) Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two. 5) Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10MHz AWGN signal relative to the EUT's channel bandwidth and center frequency. 6) Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2. 7) Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1. 8) Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting. 9) (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty. 10) Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.



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Limit:	Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 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:

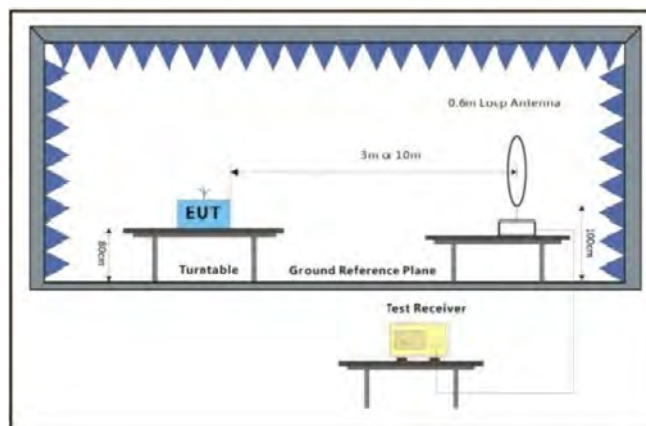


Figure 1. 9kHz to 30MHz

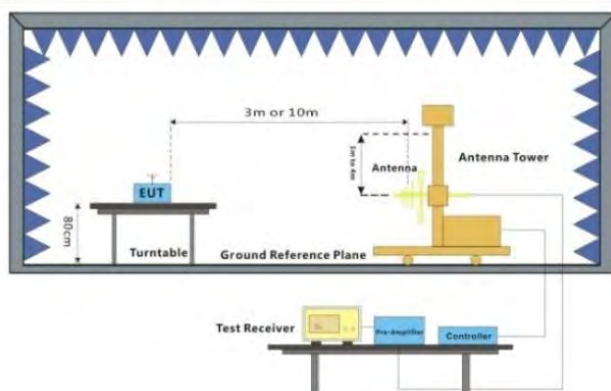


Figure 1. 30MHz to 1GHz

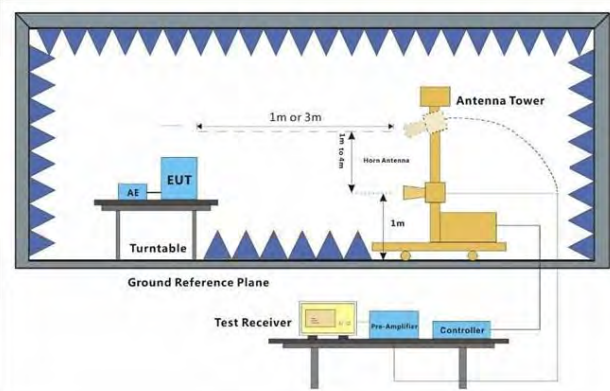


Figure 2. Above 1 GHz

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



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	vertical polarizations of the antenna are set to make the measurement. 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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the outermost channels. 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. i. Repeat above procedures until all frequencies measured was complete. 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 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. l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
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.



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Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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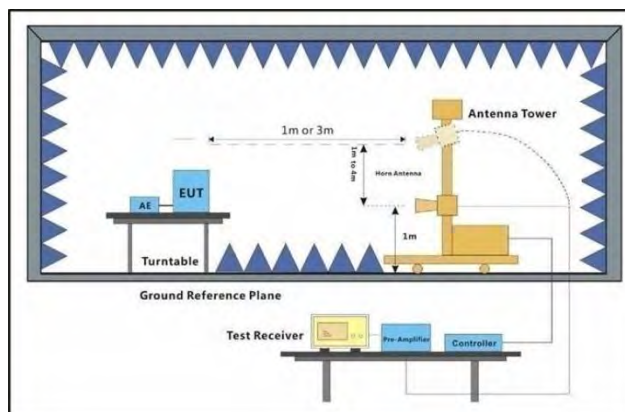
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4.11 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:



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.



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	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. i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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

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

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

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



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

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

Remark: NCR=No Calibration Requirement.



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1										
ENV	Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HE20)	MIMO	5955	RU242	Left	5.418	5.434	99.71	0.01	0.04
			6175	RU242	Left	5.418	5.434	99.71	0.01	0.04
			6415	RU242	Left	5.418	5.434	99.71	0.01	0.03
	802.11ax (HE40)	MIMO	5965	RU484	Left	4.105	4.121	99.61	0.02	0.04
			6165	RU484	Left	4.106	4.122	99.61	0.02	0.04
			6405	RU484	Left	4.105	4.120	99.64	0.02	0.00
	802.11ax (HE80)	MIMO	5985	RU996	Left	2.218	2.233	99.33	0.03	0.04
			6145	RU996	Left	2.218	2.233	99.33	0.03	0.00
			6385	RU996	Left	2.218	2.234	99.28	0.03	0.04
	802.11ax (HE160)	MIMO	6025	2xRU996	Left	2.154	2.169	99.31	0.03	0.03
			6185	2xRU996	Left	2.153	2.169	99.26	0.03	0.03
			6345	2xRU996	Left	2.154	2.169	99.31	0.03	0.03

1.1.2 Ant2

Ant2										
ENV	Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HE20)	MIMO	5955	RU242	Left	5.418	5.434	99.71	0.01	0.04
			6175	RU242	Left	5.419	5.436	99.69	0.01	0.03
			6415	RU242	Left	5.418	5.434	99.71	0.01	0.04
	802.11ax (HE40)	MIMO	5965	RU484	Left	4.106	4.122	99.61	0.02	0.04
			6165	RU484	Left	4.105	4.120	99.64	0.02	0.03
			6405	RU484	Left	4.104	4.120	99.61	0.02	0.04
	802.11ax (HE80)	MIMO	5985	RU996	Left	2.218	2.233	99.33	0.03	0.04
			6145	RU996	Left	2.218	2.233	99.33	0.03	0.04
			6385	RU996	Left	2.218	2.234	99.28	0.03	0.04
	802.11ax (HE160)	MIMO	6025	2xRU996	Left	2.154	2.169	99.31	0.03	0.03
			6185	2xRU996	Left	2.154	2.170	99.26	0.03	0.03
			6345	2xRU996	Left	2.154	2.169	99.31	0.03	0.03



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1.1.3 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HE20)	MIMO	6435	RU242	Left	5.418	5.434	99.71	0.01	0.04
			6475	RU242	Left	5.418	5.434	99.71	0.01	0.04
			6515	RU242	Left	5.418	5.434	99.71	0.01	0.04
	802.11ax (HE40)	MIMO	6445	RU484	Left	4.105	4.120	99.64	0.02	0.00
			6485	RU484	Left	4.106	4.122	99.61	0.02	0.04
	802.11ax (HE80)	MIMO	6465	RU996	Left	2.218	2.234	99.28	0.03	0.04

1.1.4 Ant2

Ant2										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HE20)	MIMO	6435	RU242	Left	5.419	5.436	99.69	0.01	0.03
			6475	RU242	Left	5.419	5.436	99.69	0.01	0.03
			6515	RU242	Left	5.418	5.434	99.71	0.01	0.04
	802.11ax (HE40)	MIMO	6445	RU484	Left	4.104	4.120	99.61	0.02	0.04
			6485	RU484	Left	4.104	4.120	99.61	0.02	0.03
	802.11ax (HE80)	MIMO	6465	RU996	Left	2.218	2.233	99.33	0.03	0.04

1.1.5 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HE20)	MIMO	6535	RU242	Left	5.418	5.434	99.71	0.01	0.04
			6695	RU242	Left	5.418	5.434	99.71	0.01	0.04
			6855	RU242	Left	5.419	5.436	99.69	0.01	0.03
	802.11ax (HE40)	MIMO	6565	RU484	Left	4.105	4.120	99.64	0.02	0.03
			6685	RU484	Left	4.104	4.120	99.61	0.02	0.04
			6845	RU484	Left	4.105	4.121	99.61	0.02	0.04
	802.11ax (HE80)	MIMO	6625	RU996	Left	2.217	2.232	99.33	0.03	0.00
			6705	RU996	Left	2.217	2.232	99.33	0.03	0.00
			6785	RU996	Left	2.219	2.234	99.33	0.03	0.04
	802.11ax (HE160)	MIMO	6665	2xRU996	Left	2.154	2.170	99.26	0.03	0.03



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1.1.6 Ant2

Ant2										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HE20)	MIMO	6535	RU242	Left	5.419	5.436	99.69	0.01	0.03
			6695	RU242	Left	5.418	5.434	99.71	0.01	0.04
			6855	RU242	Left	5.418	5.436	99.67	0.01	0.04
	802.11ax (HE40)	MIMO	6565	RU484	Left	4.105	4.121	99.61	0.02	0.04
			6685	RU484	Left	4.106	4.122	99.61	0.02	0.04
			6845	RU484	Left	4.104	4.120	99.61	0.02	0.04
	802.11ax (HE80)	MIMO	6625	RU996	Left	2.218	2.233	99.33	0.03	0.04
			6705	RU996	Left	2.218	2.234	99.28	0.03	0.04
			6785	RU996	Left	2.219	2.234	99.33	0.03	0.04
	802.11ax (HE160)	MIMO	6665	2xRU996	Left	2.154	2.169	99.31	0.03	0.03

1.1.7 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HE20)	MIMO	6895	RU242	Left	5.418	5.434	99.71	0.01	0.04
			7015	RU242	Left	5.418	5.434	99.71	0.01	0.04
			7095	RU242	Left	5.419	5.436	99.69	0.01	0.03
	802.11ax (HE40)	MIMO	6925	RU484	Left	4.104	4.120	99.61	0.02	0.04
			7005	RU484	Left	4.105	4.121	99.61	0.02	0.04
			7085	RU484	Left	4.105	4.120	99.64	0.02	0.00
	802.11ax (HE80)	MIMO	6945	RU996	Left	2.218	2.234	99.28	0.03	0.04
			7025	RU996	Left	2.218	2.233	99.33	0.03	0.04
	802.11ax (HE160)	MIMO	6985	2xRU996	Left	2.154	2.169	99.31	0.03	0.03

1.1.8 Ant2

Ant2										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HE20)	MIMO	6895	RU242	Left	5.419	5.435	99.71	0.01	0.03
			7015	RU242	Left	5.419	5.436	99.69	0.01	0.03
			7095	RU242	Left	5.418	5.434	99.71	0.01	0.04
	802.11ax (HE40)	MIMO	6925	RU484	Left	4.105	4.122	99.59	0.02	0.04
			7005	RU484	Left	4.104	4.120	99.61	0.02	0.04
			7085	RU484	Left	4.104	4.120	99.61	0.02	0.00
	802.11ax (HE80)	MIMO	6945	RU996	Left	2.218	2.233	99.33	0.03	0.00
			7025	RU996	Left	2.218	2.233	99.33	0.03	0.04
	802.11ax (HE160)	MIMO	6985	2xRU996	Left	2.154	2.169	99.31	0.03	0.03



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1.1.9 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HE20)	MIMO	6875	RU242	Left	5.418	5.433	99.72	0.01	0.00
	802.11ax (HE40)	MIMO	6885	RU484	Left	4.104	4.120	99.61	0.02	0.04
	802.11ax (HE80)	MIMO	6865	RU996	Left	2.218	2.233	99.33	0.03	0.04
	802.11ax (HE160)	MIMO	6825	2xRU996	Left	2.154	2.169	99.31	0.03	0.03

1.1.10 Ant2

Ant2										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HE20)	MIMO	6875	RU242	Left	5.418	5.435	99.69	0.01	0.03
	802.11ax (HE40)	MIMO	6885	RU484	Left	4.105	4.120	99.64	0.02	0.00
	802.11ax (HE80)	MIMO	6865	RU996	Left	2.218	2.233	99.33	0.03	0.04
	802.11ax (HE160)	MIMO	6825	2xRU996	Left	2.154	2.169	99.31	0.03	0.03

1.1.11 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HE40)	MIMO	6525	RU484	Left	4.106	4.122	99.61	0.02	0.04
	802.11ax (HE80)	MIMO	6545	RU996	Left	2.219	2.234	99.33	0.03	0.04
	802.11ax (HE160)	MIMO	6505	2xRU996	Left	2.154	2.169	99.31	0.03	0.00

1.1.12 Ant2

Ant2										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HE40)	MIMO	6525	RU484	Left	4.104	4.120	99.61	0.02	0.04
	802.11ax (HE80)	MIMO	6545	RU996	Left	2.218	2.233	99.33	0.03	0.04
	802.11ax (HE160)	MIMO	6505	2xRU996	Left	2.154	2.169	99.31	0.03	0.03



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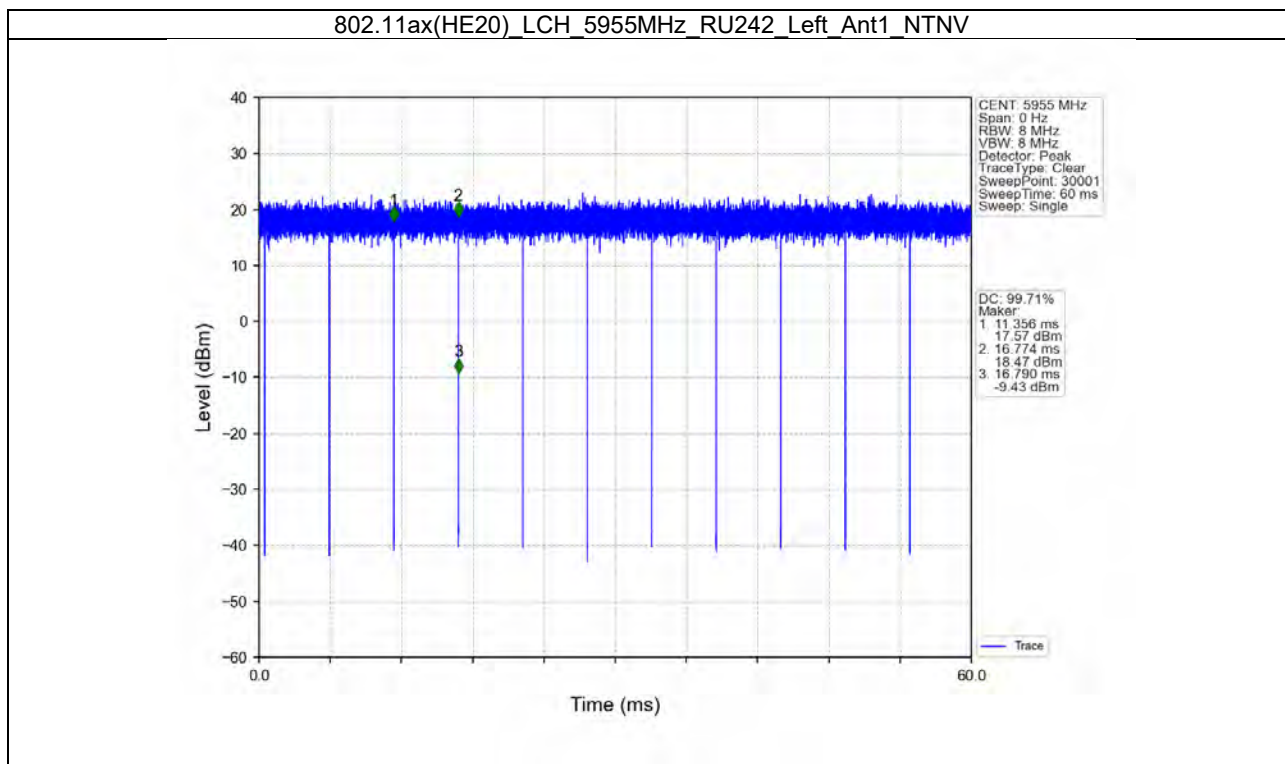
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1.2 Test Graph

1.2.1 Ant1



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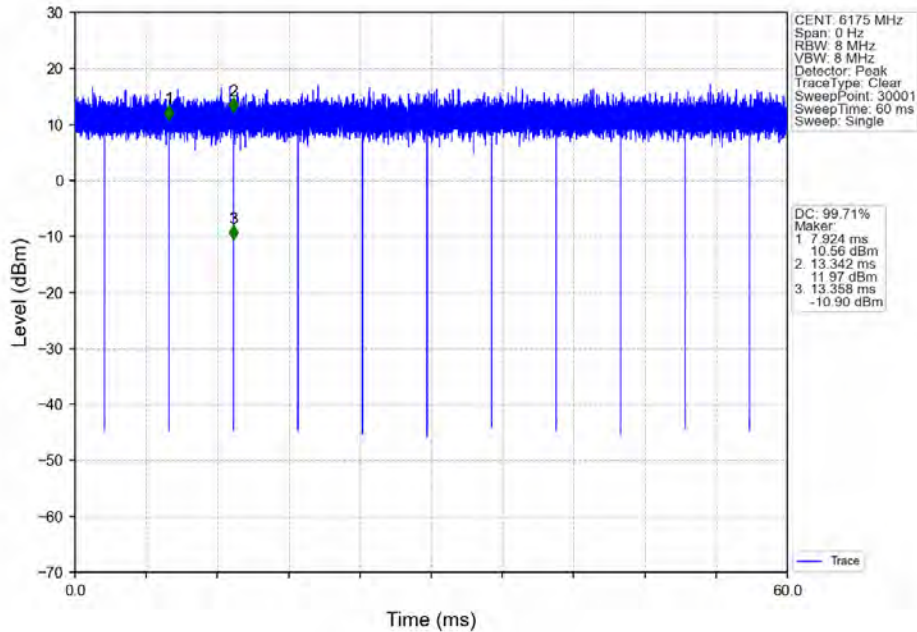
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802.11ax(HE20)_MCH_6175MHz_RU242_Left_Ant1_NTNV



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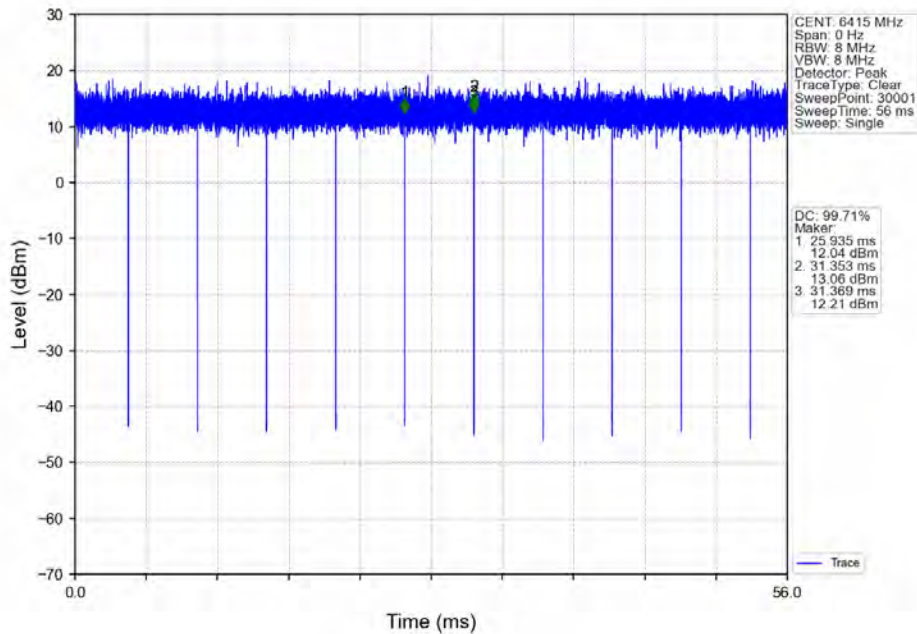
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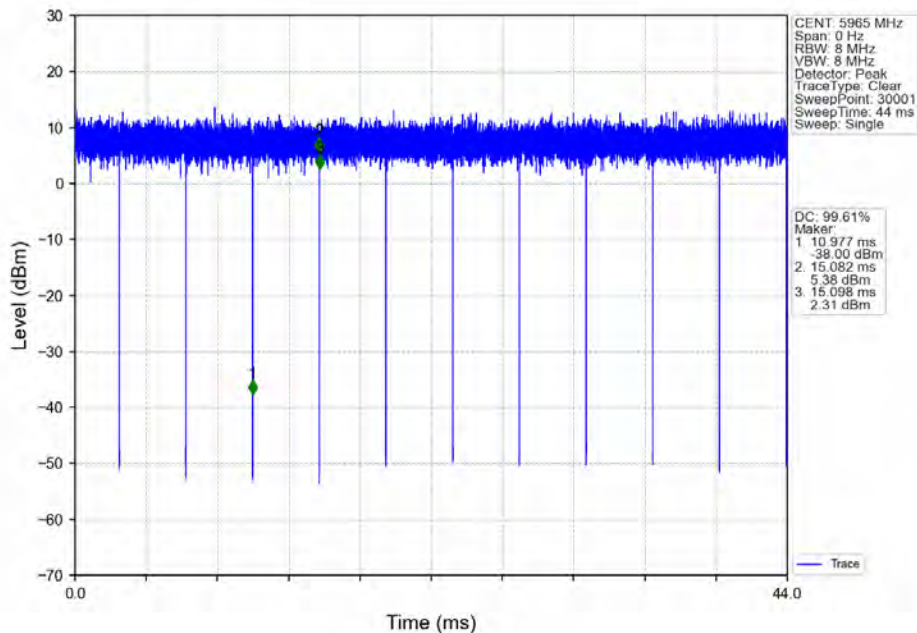
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802.11ax(HE20)_HCH_6415MHz_RU242_Left_Ant1_NTNV



802.11ax(HE40)_LCH_5965MHz_RU484_Left_Ant1_NTNV



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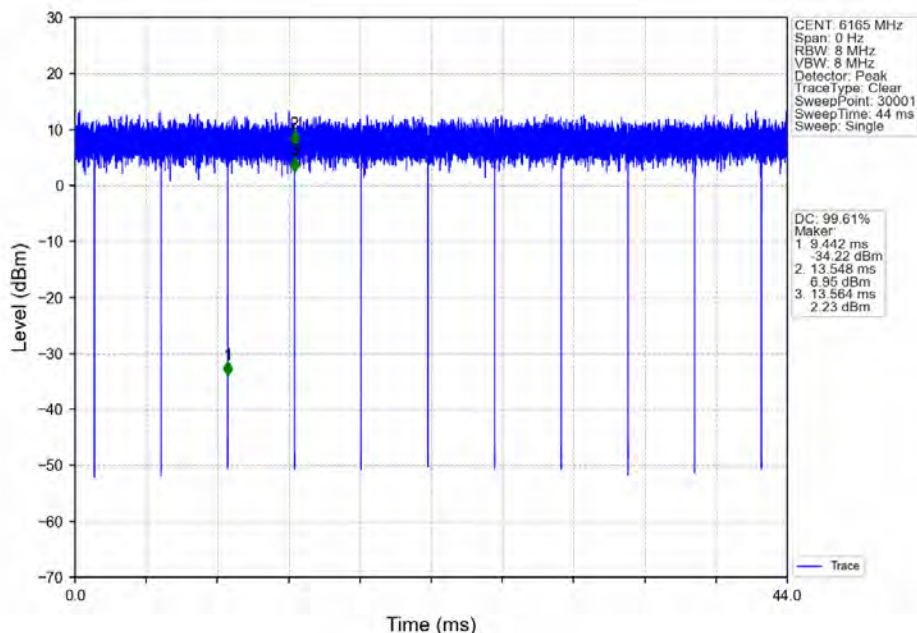
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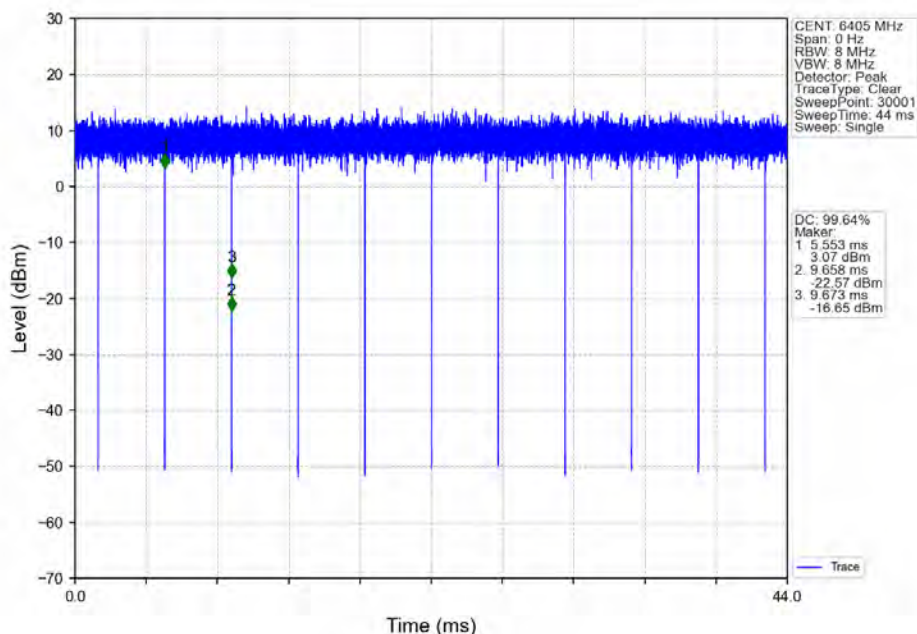
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802.11ax(HE40)_MCH_6165MHz_RU484_Left_Ant1_NTNV



802.11ax(HE40)_HCH_6405MHz_RU484_Left_Ant1_NTNV



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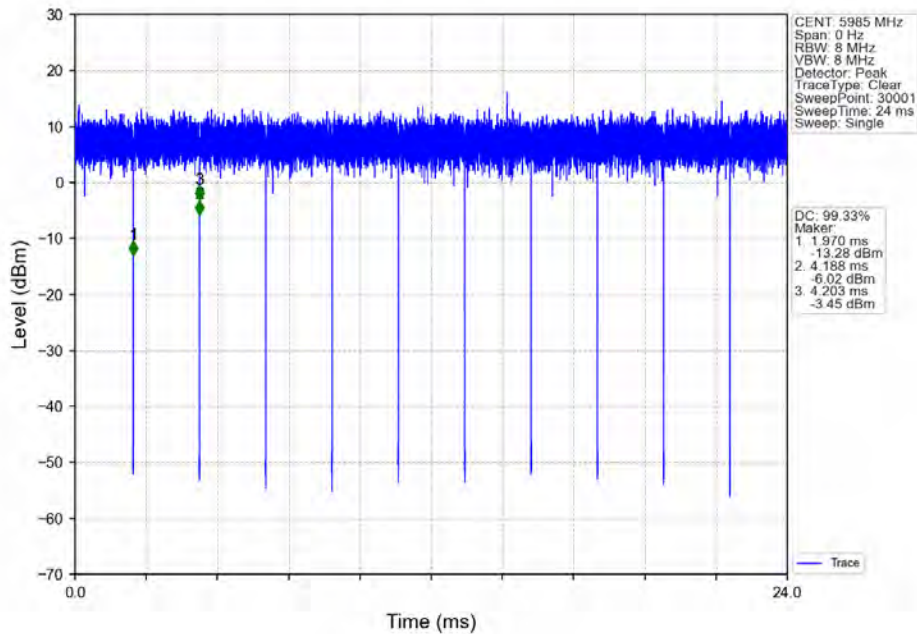
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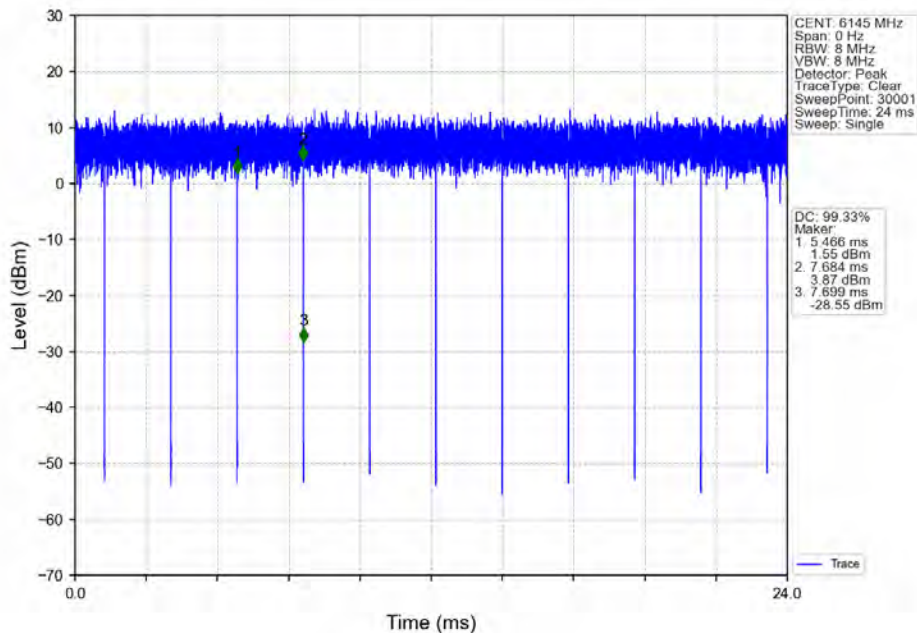
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802.11ax(HE80)_LCH_5985MHz_RU996_Left_Ant1_NTNV



802.11ax(HE80)_MCH_6145MHz_RU996_Left_Ant1_NTNV



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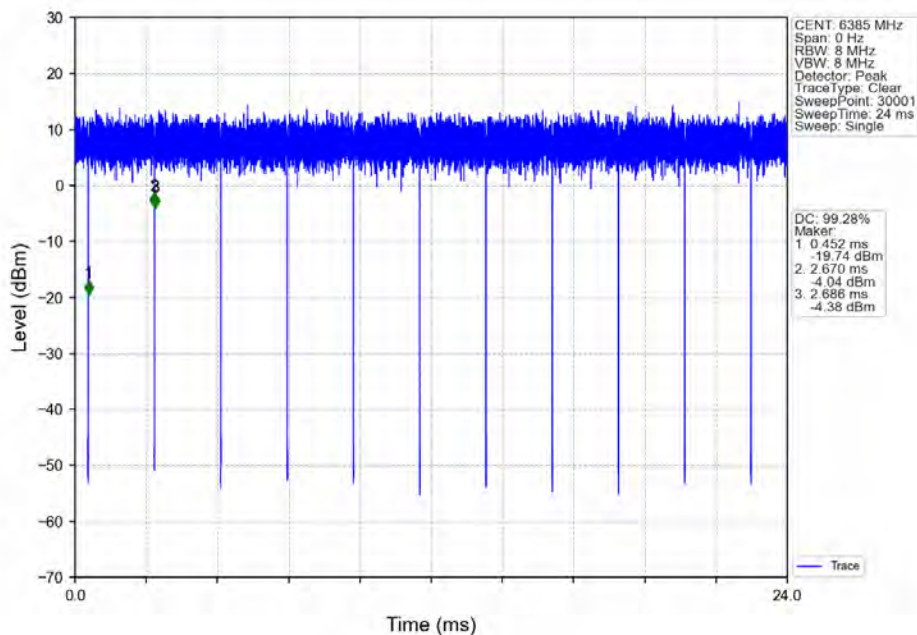
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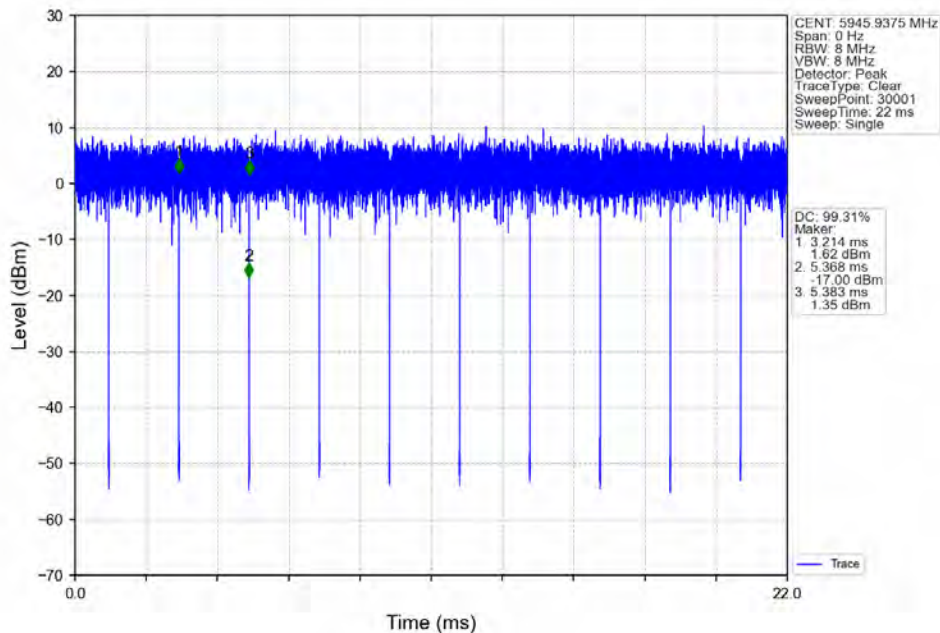
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802.11ax(HE80)_HCH_6385MHz_RU996_Left_Ant1_NTNV



802.11ax(HE160)_LCH_6025MHz_2xRU996_Left_Ant1_NTNV



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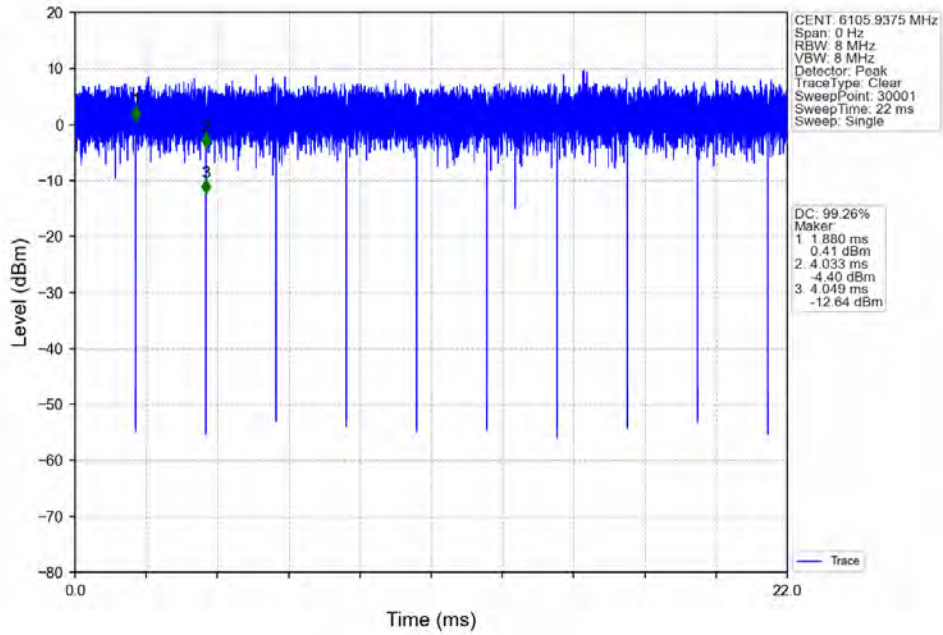
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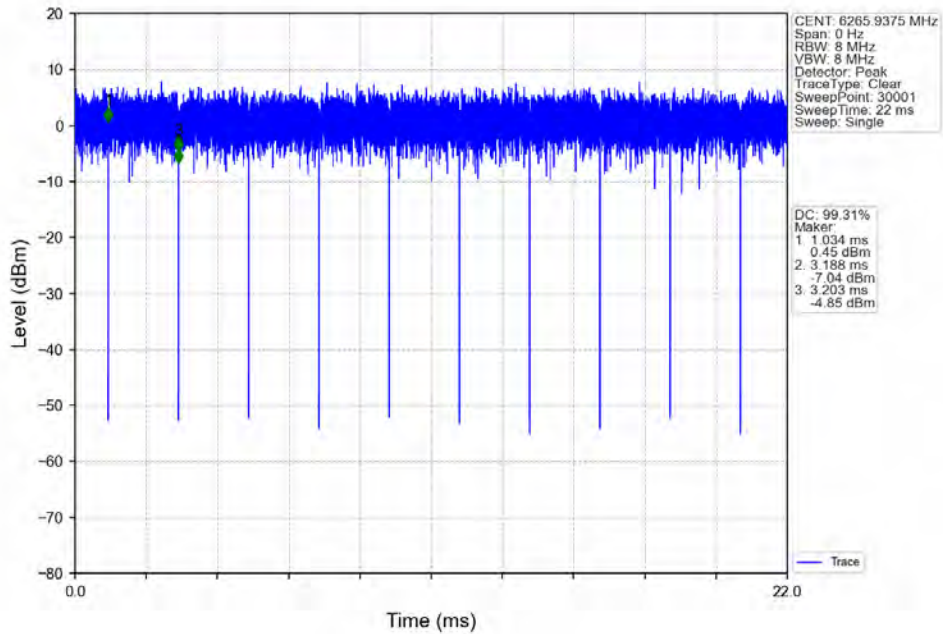
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802.11ax(HE160)_MCH_6185MHz_2xRU996_Left_Ant1_NTNV



802.11ax(HE160)_HCH_6345MHz_2xRU996_Left_Ant1_NTNV



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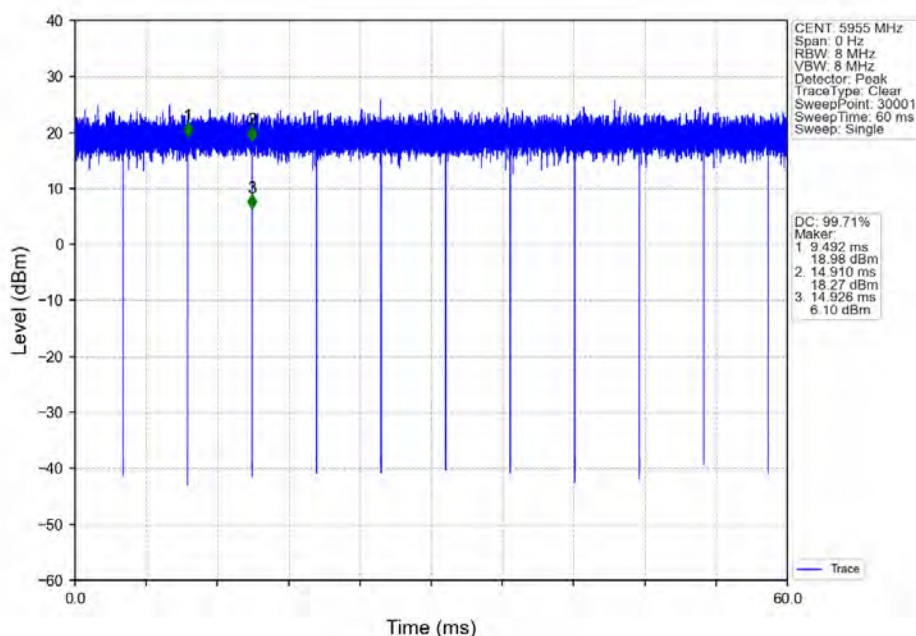
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1.2.2 Ant2

802.11ax(HE20) LCH 5955MHz RU242 Left Ant2 NTNv



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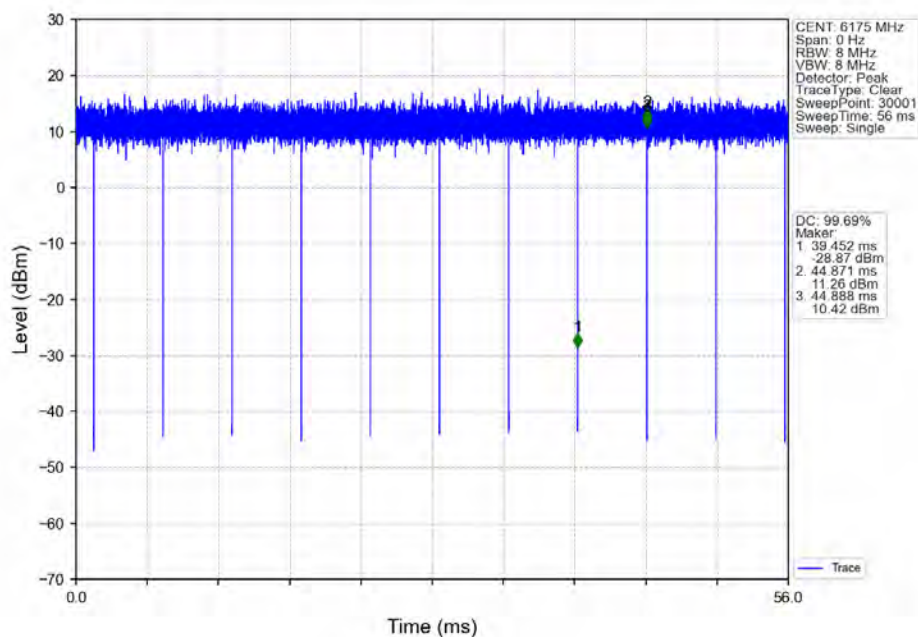
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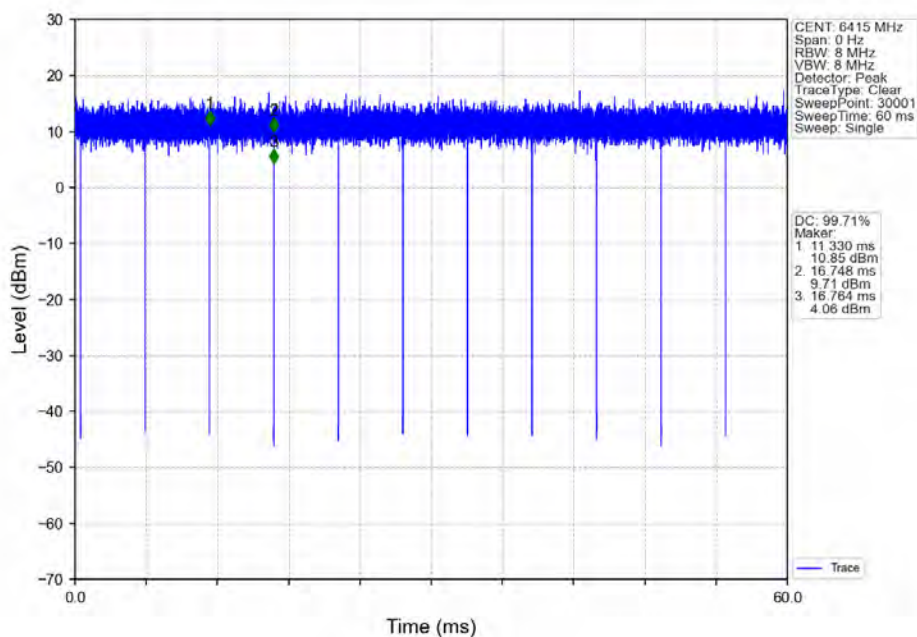
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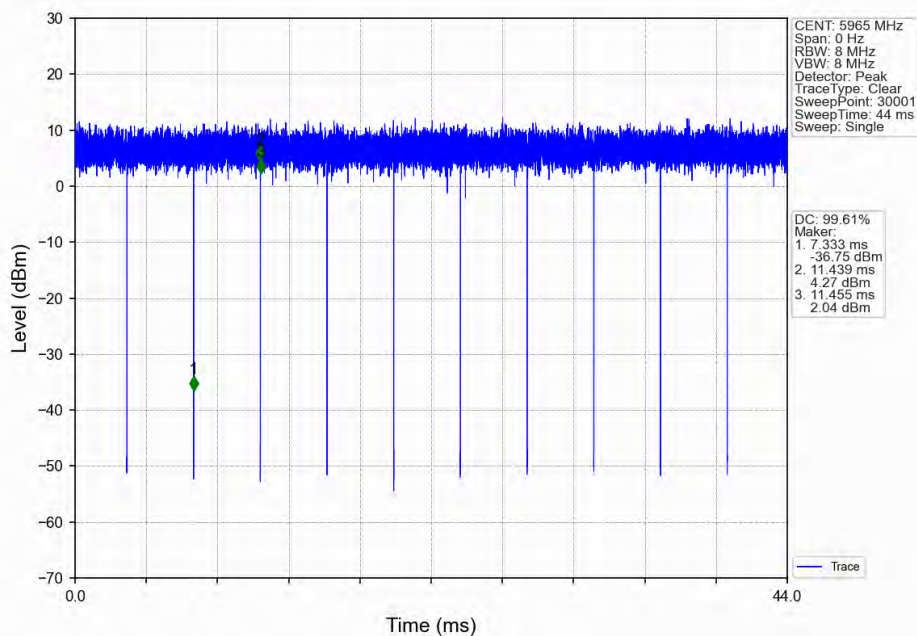
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802.11ax(HE20)_HCH_6415MHz_RU242_Left_Ant2_NTNV



802.11ax(HE40)_LCH_5965MHz_RU484_Left_Ant2_NTNV



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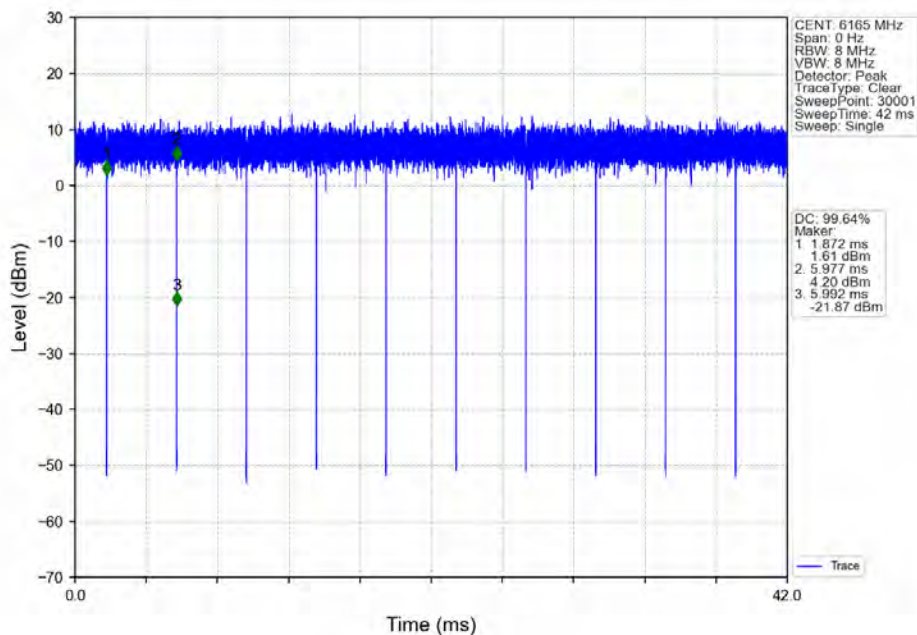
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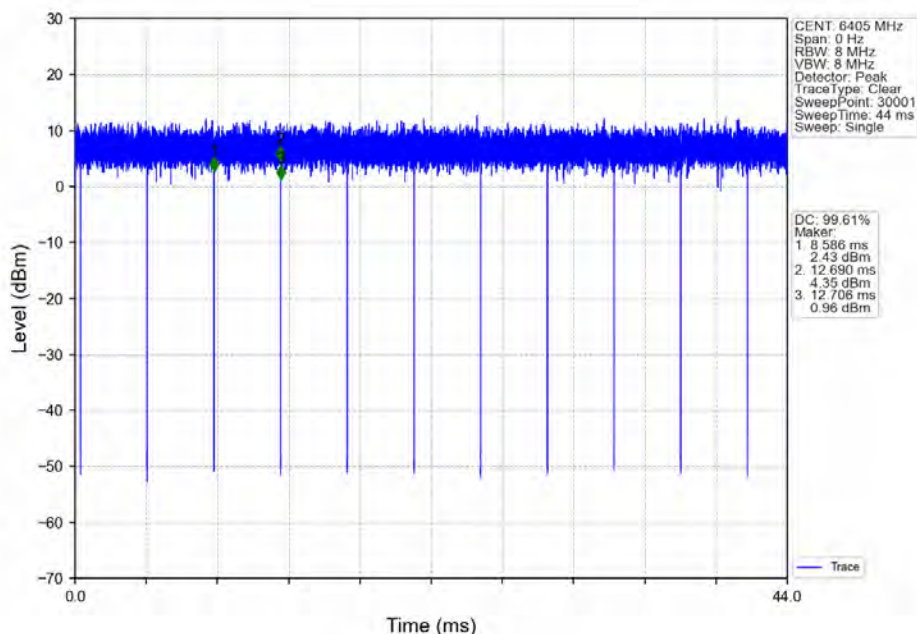
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802.11ax(HE40)_MCH_6165MHz_RU484_Left_Ant2_NTNV



802.11ax(HE40)_HCH_6405MHz_RU484_Left_Ant2_NTNV



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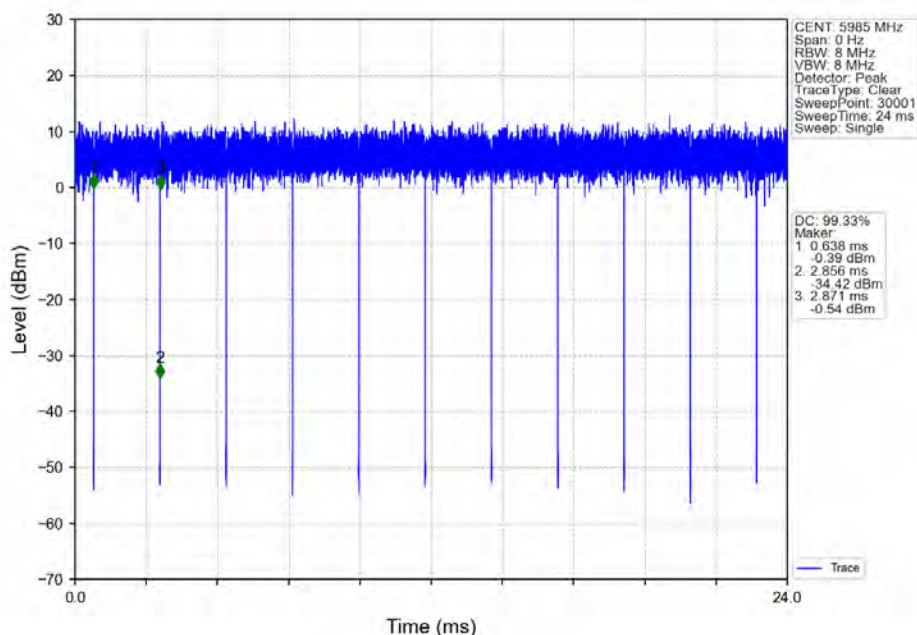
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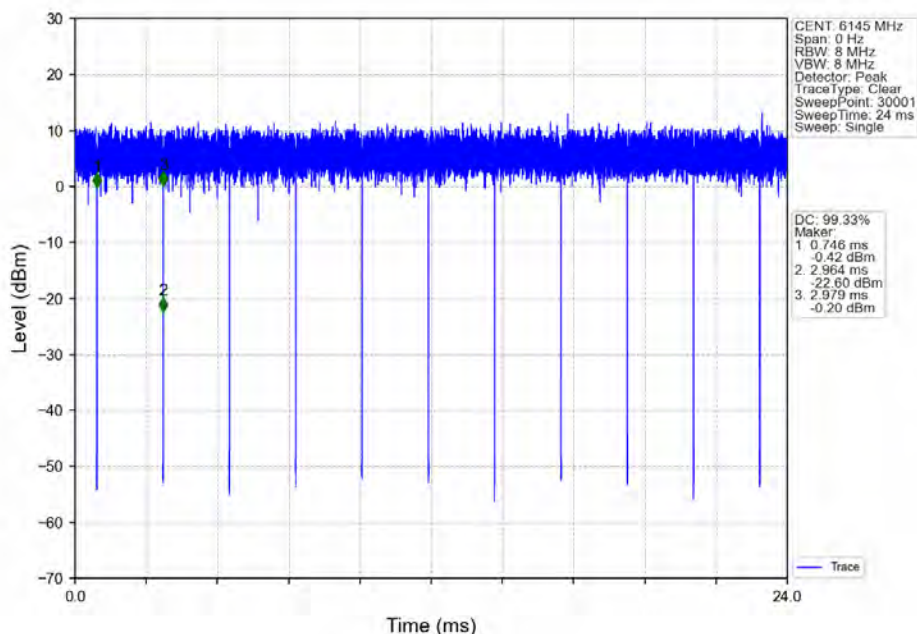
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802.11ax(HE80)_LCH_5985MHz_RU996_Left_Ant2_NTNV



802.11ax(HE80)_MCH_6145MHz_RU996_Left_Ant2_NTNV



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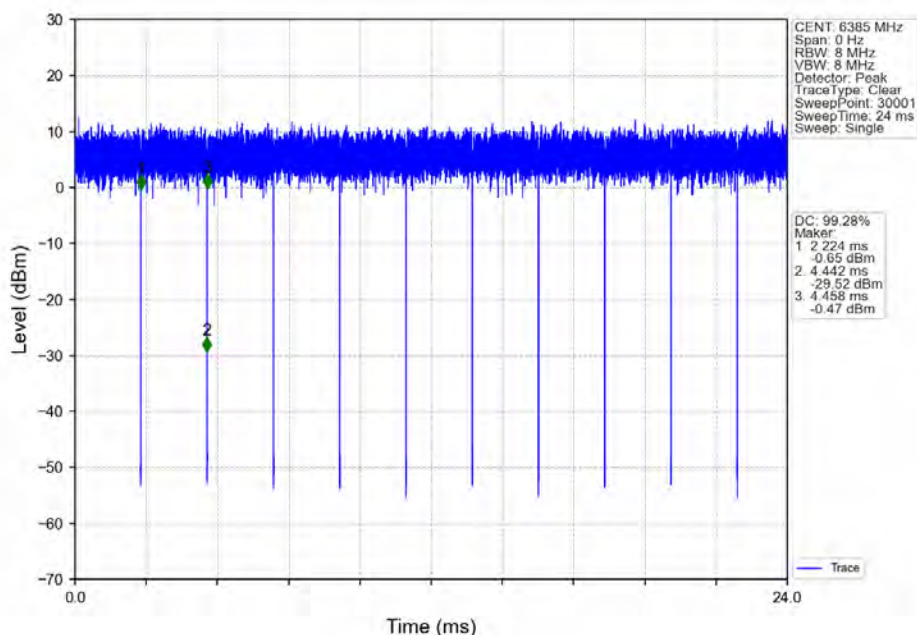
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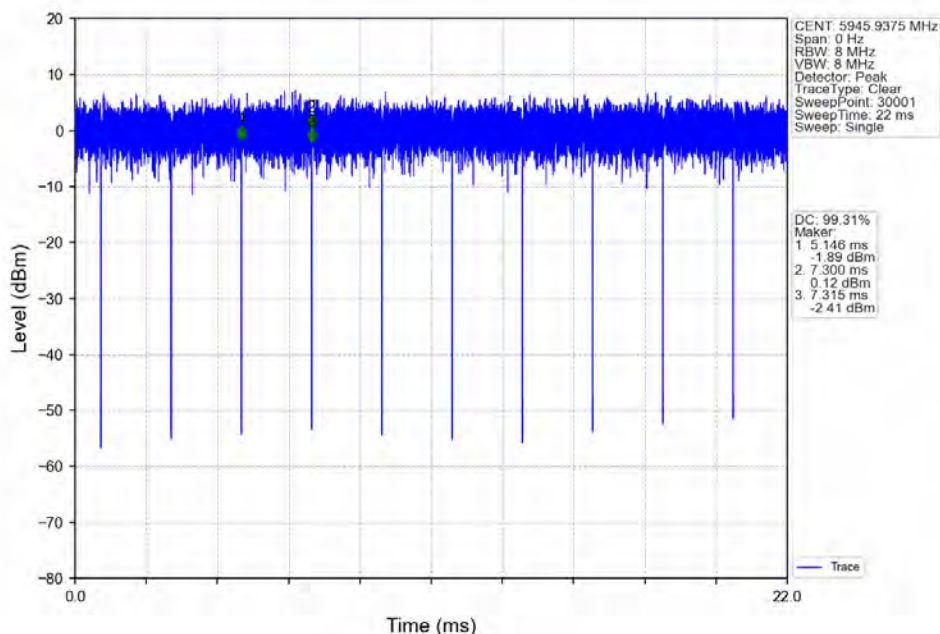
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802.11ax(HE80)_HCH_6385MHz_RU996_Left_Ant2_NTNV



802.11ax(HE160)_LCH_6025MHz_2xRU996_Left_Ant2_NTNV



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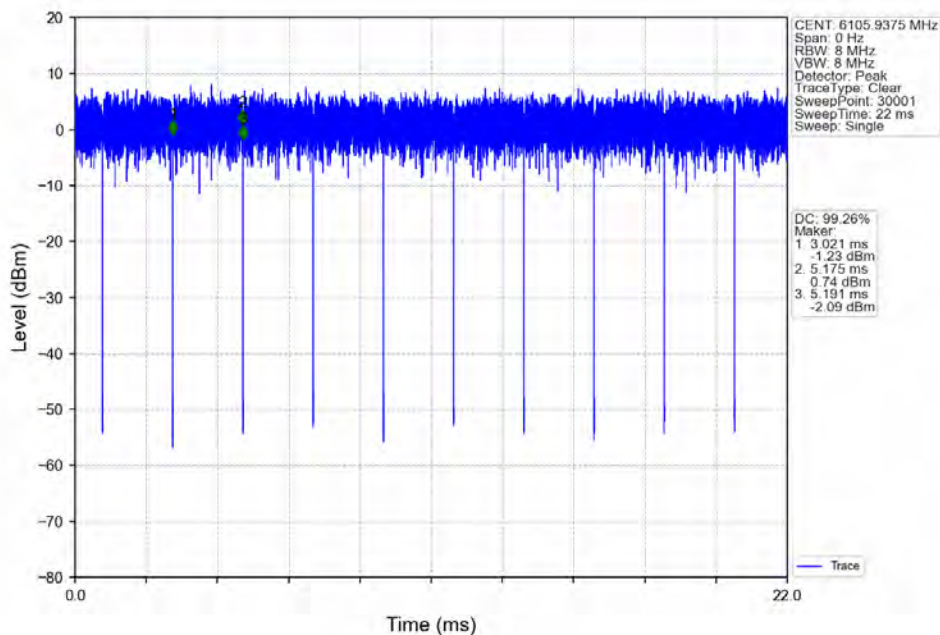
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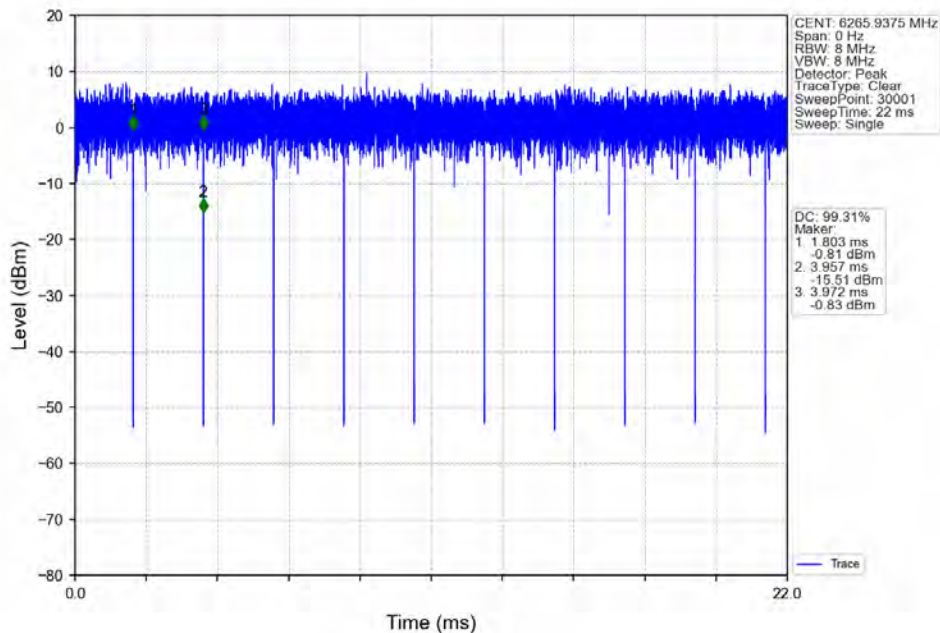
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802.11ax(HE160)_MCH_6185MHz_2xRU996_Left_Ant2_NTNV



802.11ax(HE160)_HCH_6345MHz_2xRU996_Left_Ant2_NTNV



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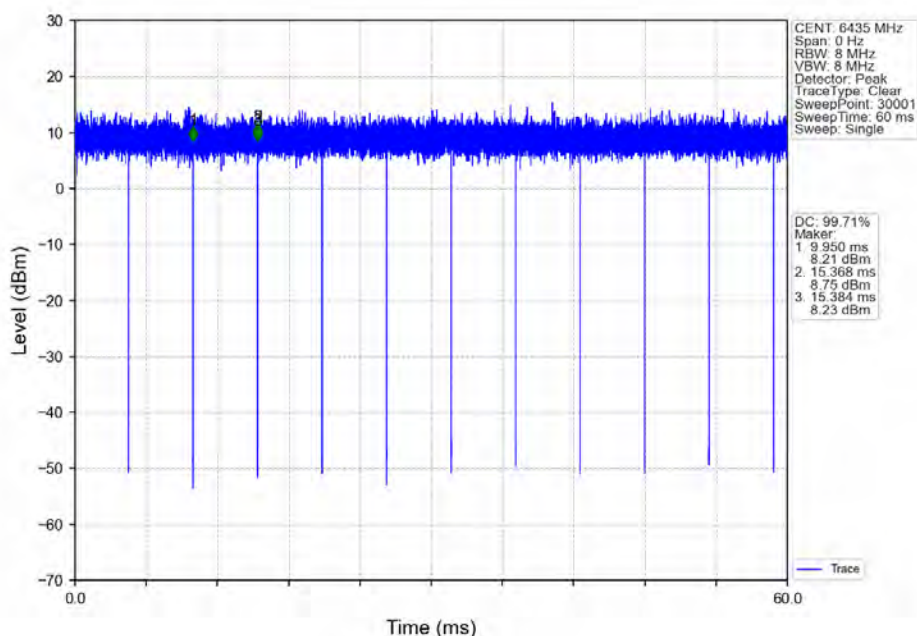
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1.2.3 Ant1

802.11ax(HE20) LCH 6435MHz RU242 Left Ant1 NTN



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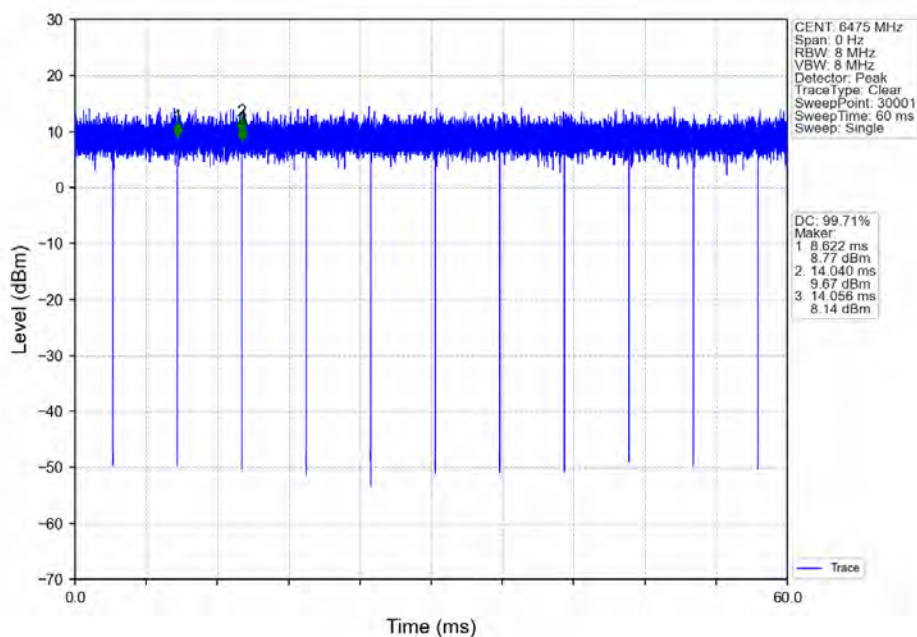
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802.11ax(HE20)_MCH_6475MHz_RU242_Left_Ant1_NTNV



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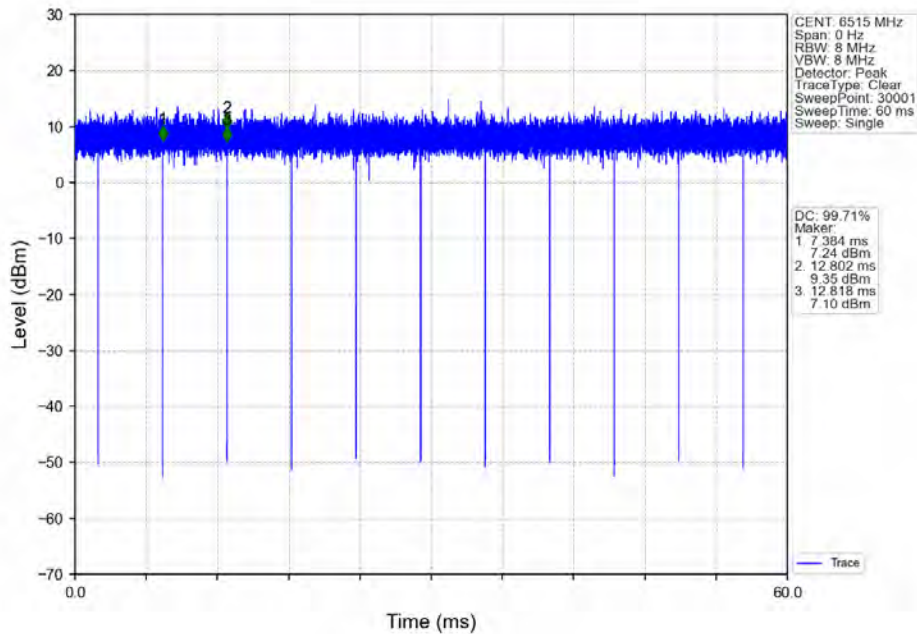
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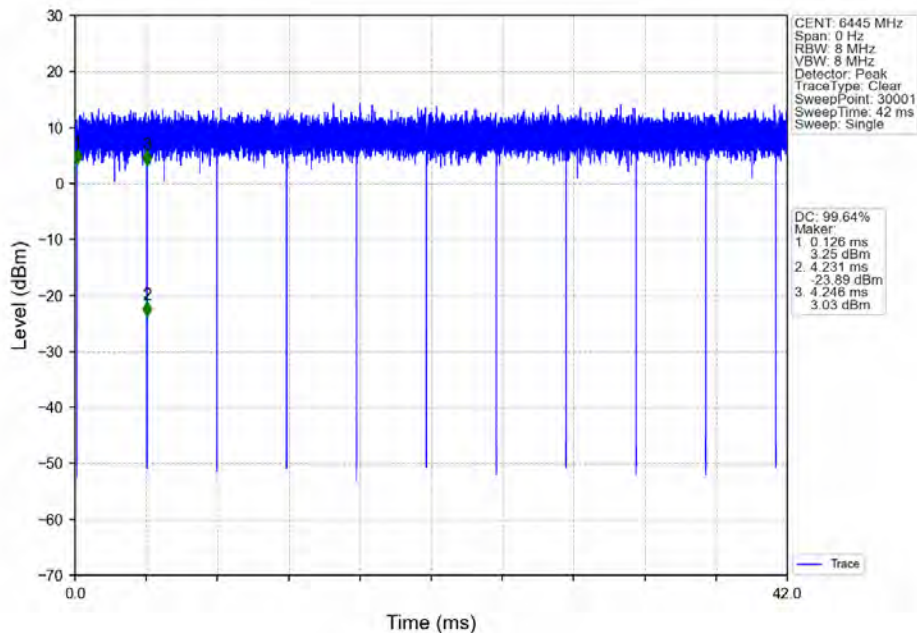
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802.11ax(HE40)_LCH_6445MHz_RU484_Left_Ant1_NTNV



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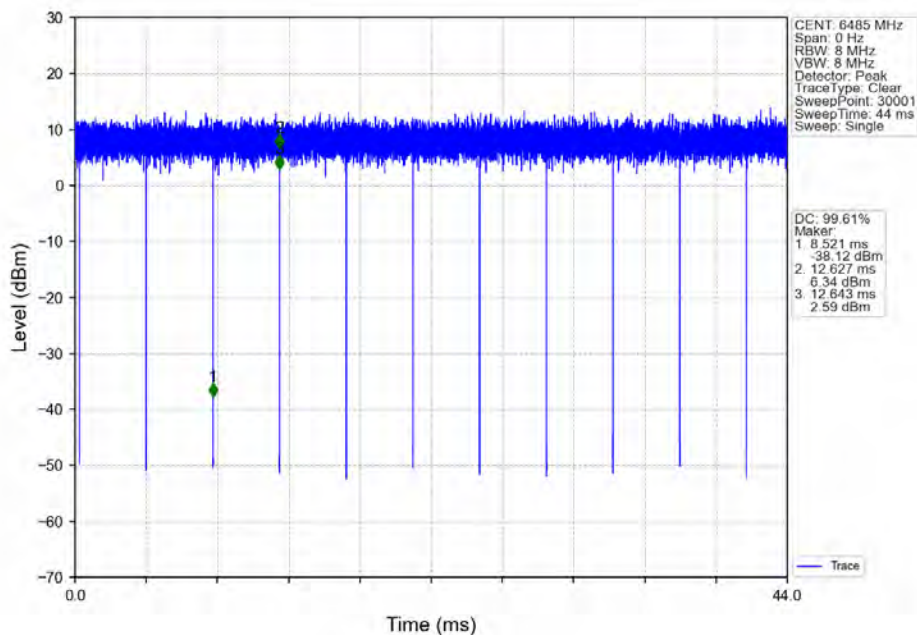
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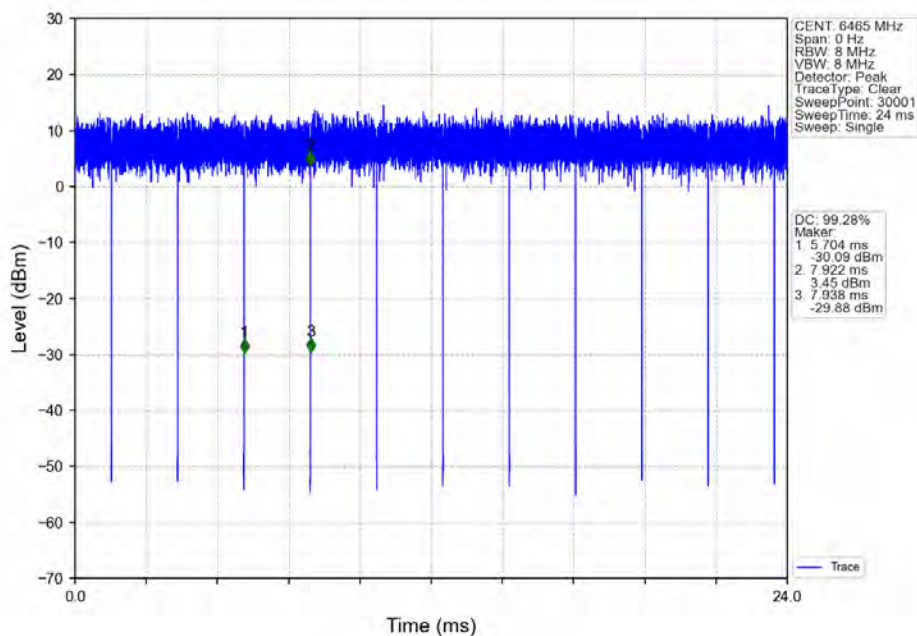
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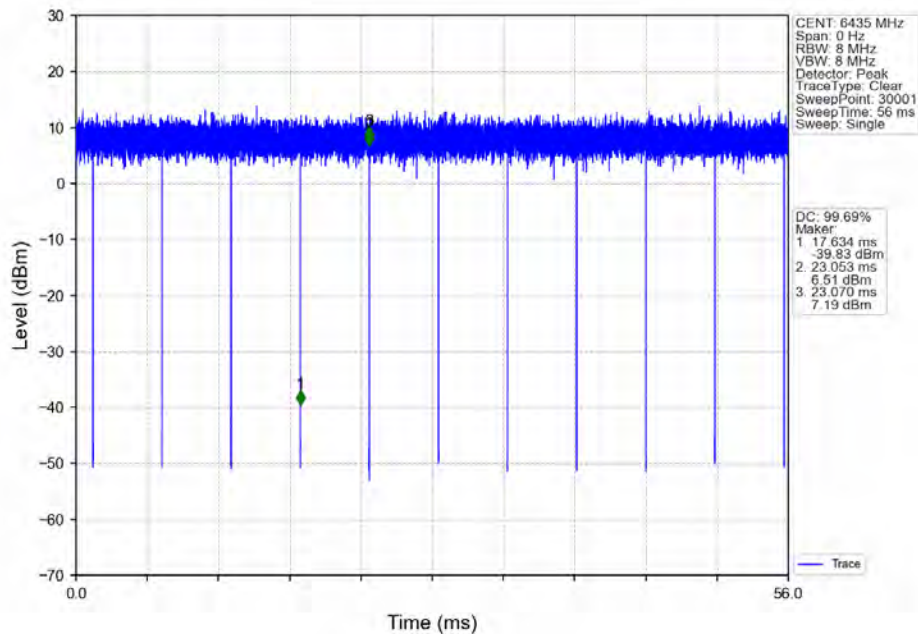
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1.2.4 Ant2

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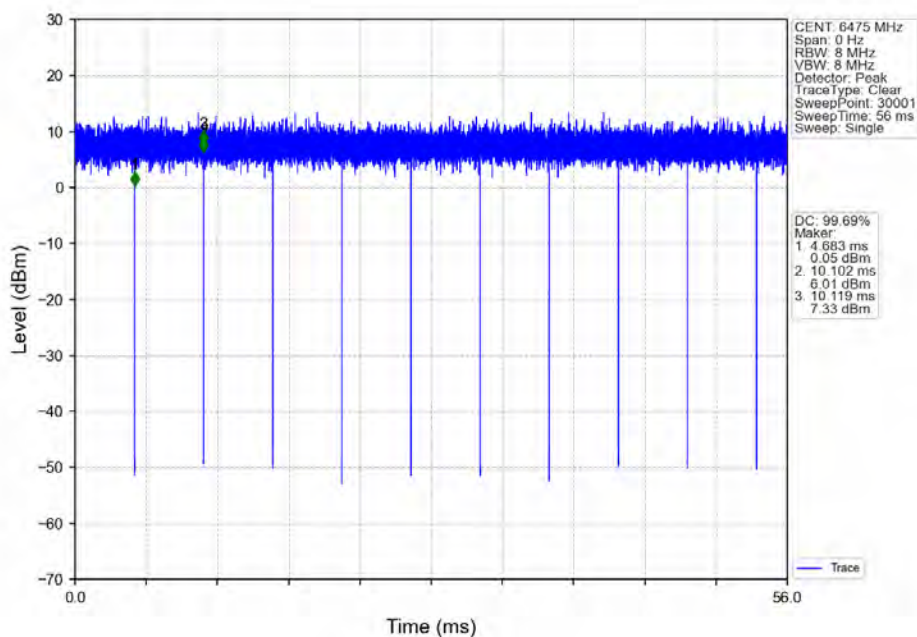
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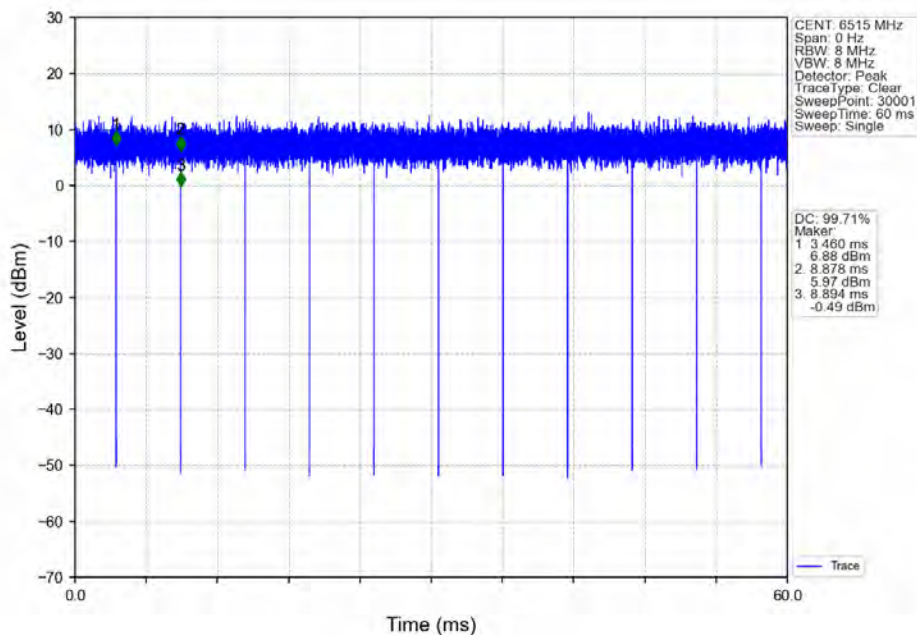
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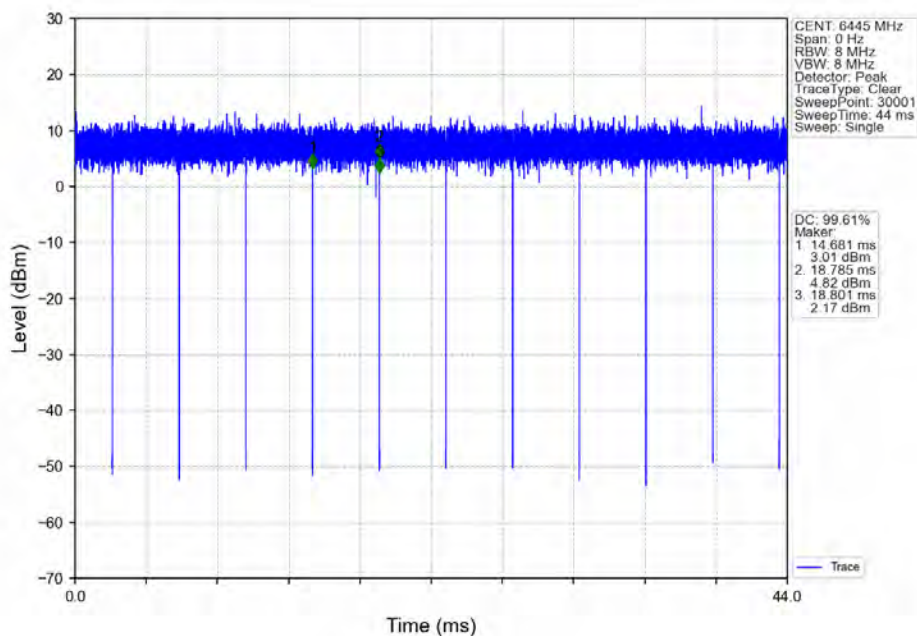
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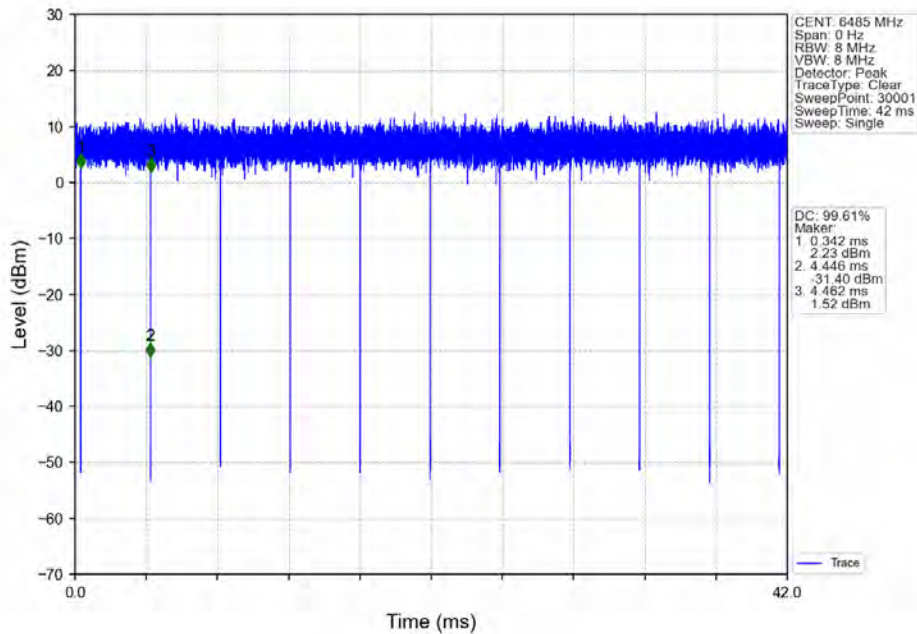
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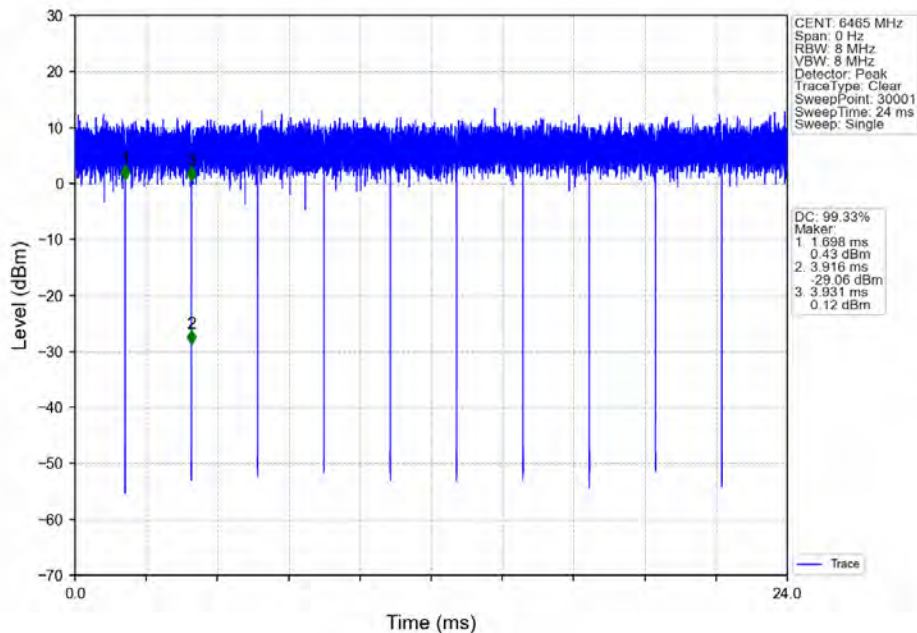
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802.11ax(HE80)_LCH_6465MHz_RU996_Left_Ant2_NTNV



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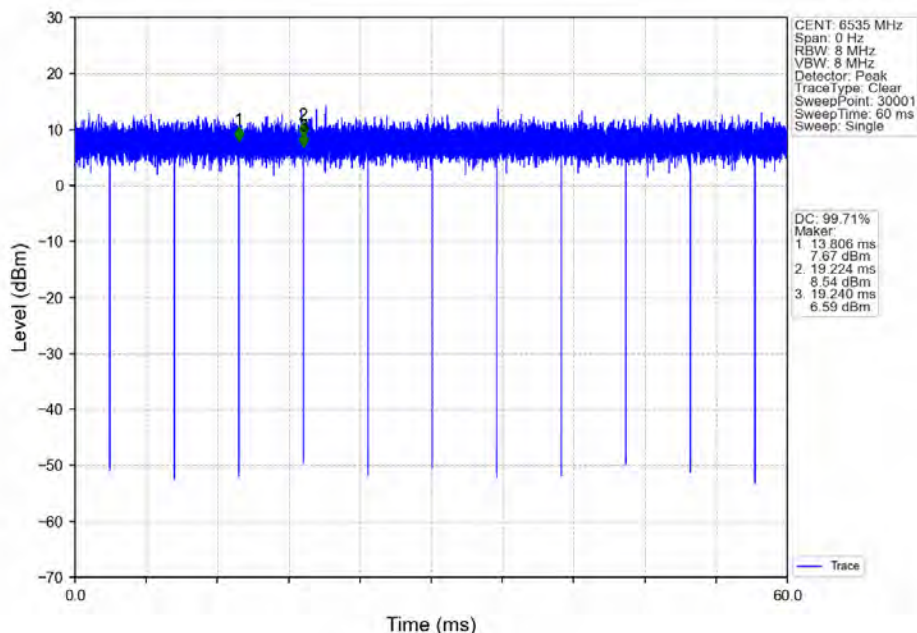
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1.2.5 Ant1

802.11ax(HE20) LCH 6535MHz RU242 Left Ant1 NTN



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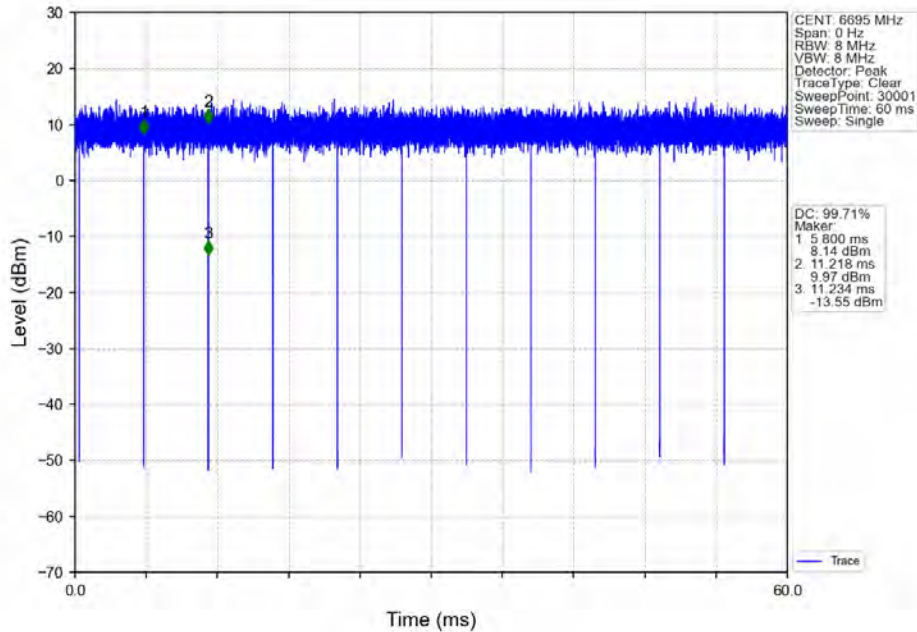
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802.11ax(HE20)_MCH_6695MHz_RU242_Left_Ant1_NTNV



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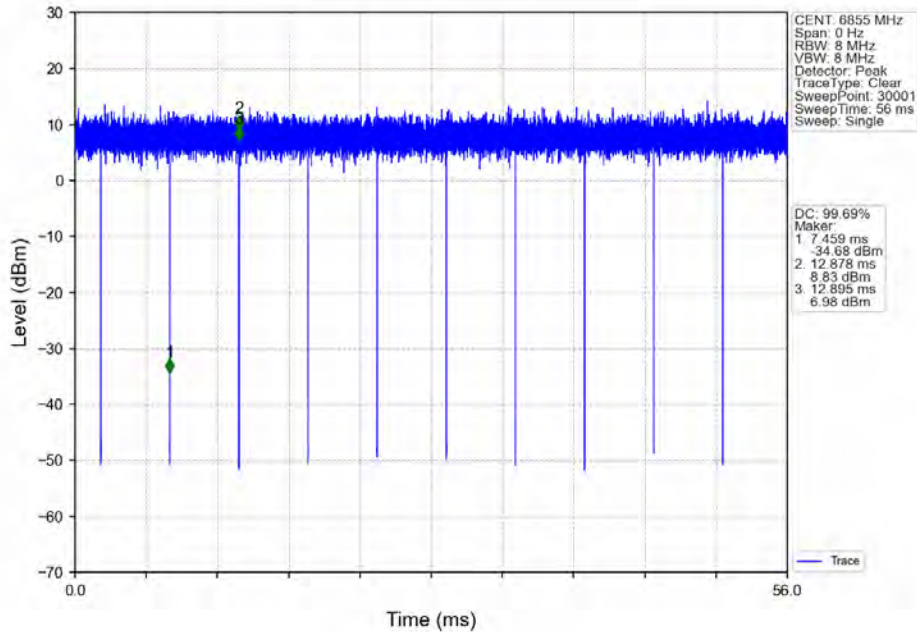
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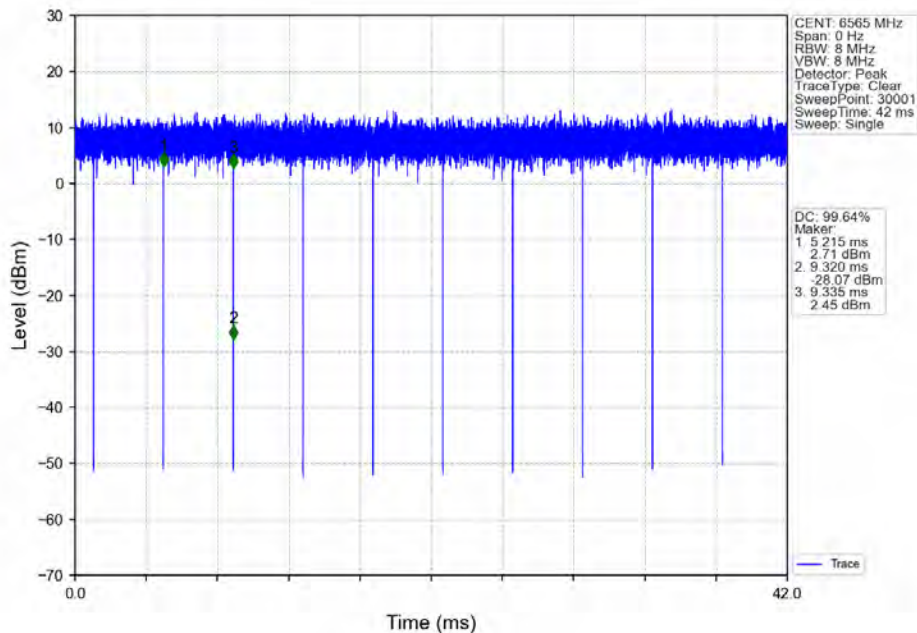
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802.11ax(HE20)_HCH_6855MHz_RU242_Left_Ant1_NTNV



802.11ax(HE40)_LCH_6565MHz_RU484_Left_Ant1_NTNV



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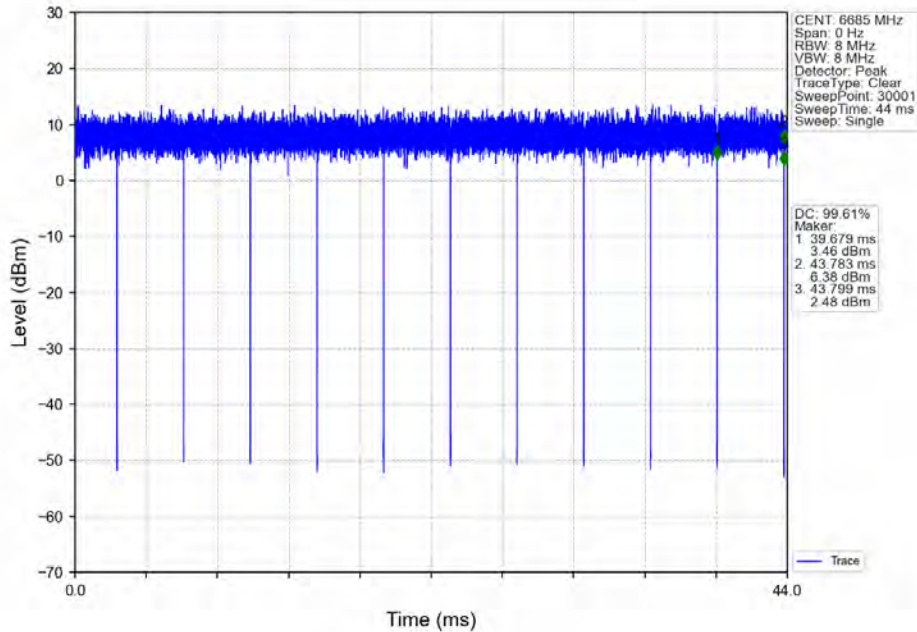
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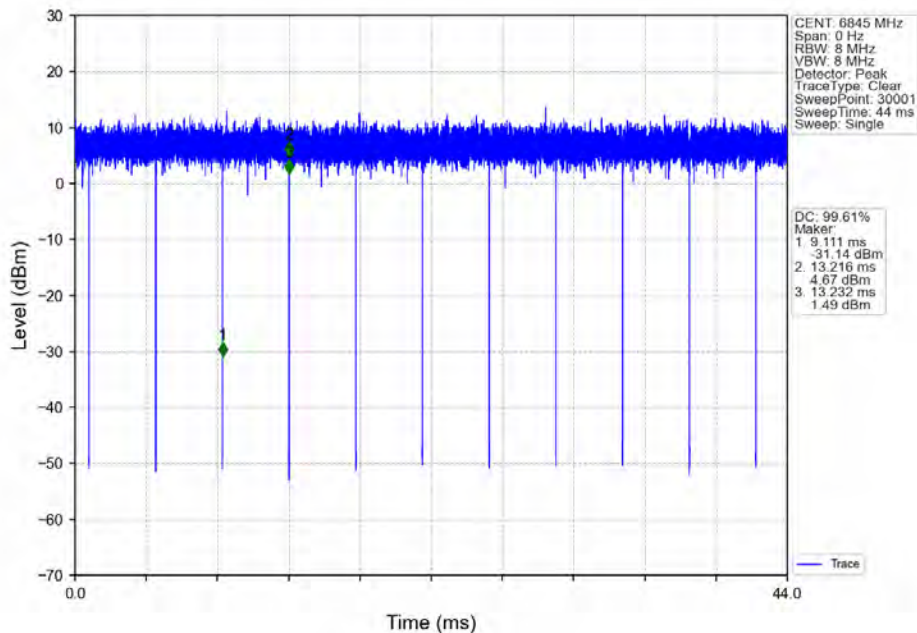
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802.11ax(HE40)_HCH_6845MHz_RU484_Left_Ant1_NTNV



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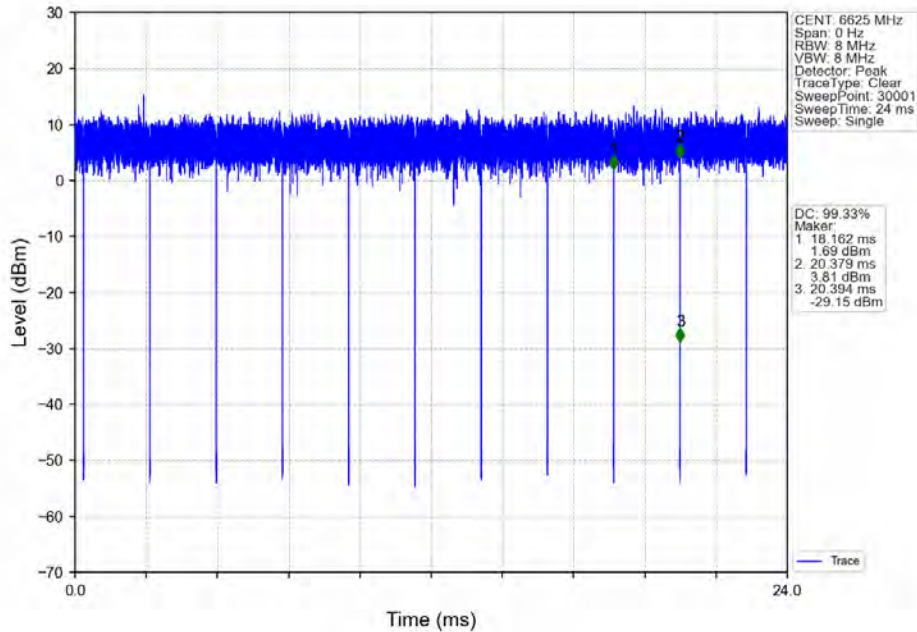
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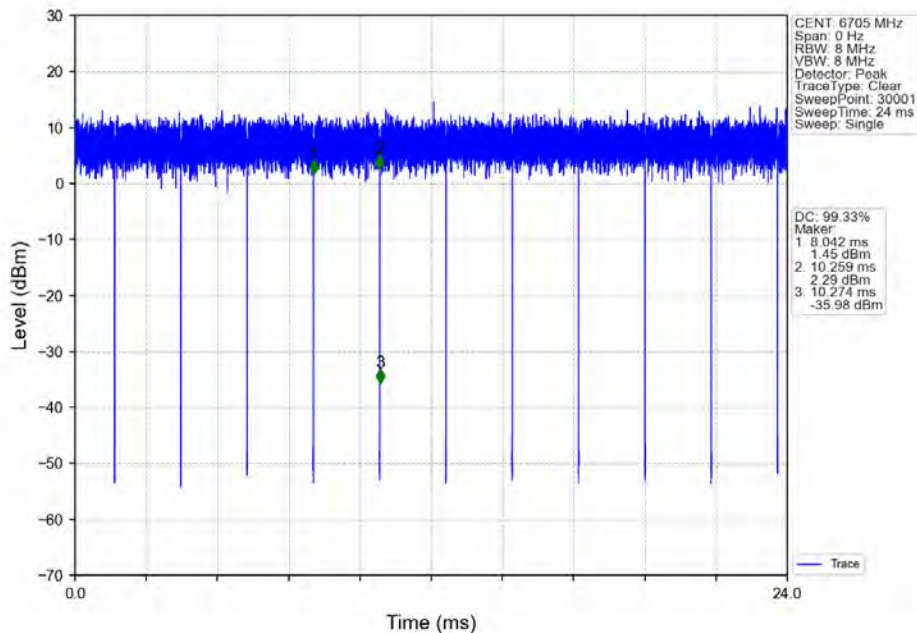
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802.11ax(HE80)_LCH_6625MHz_RU996_Left_Ant1_NTNV



802.11ax(HE80)_MCH_6705MHz_RU996_Left_Ant1_NTNV



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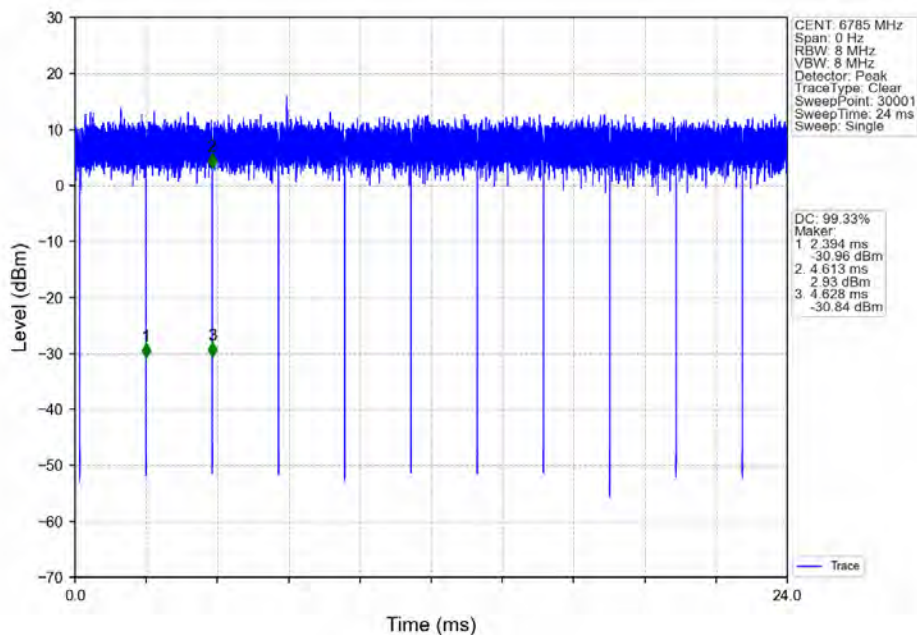
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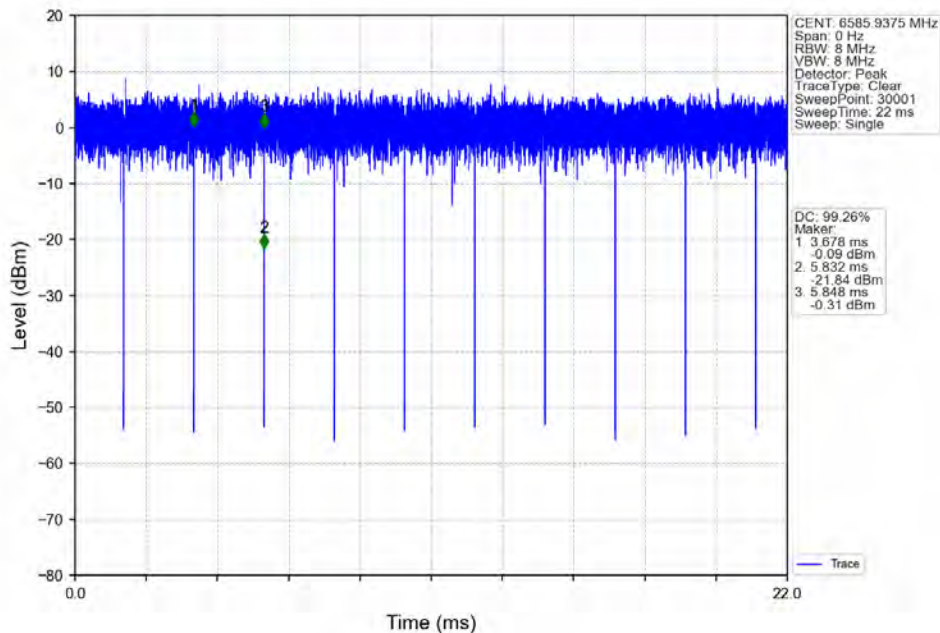
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802.11ax(HE160)_MCH_6665MHz_2xRU996_Left_Ant1_NTNV



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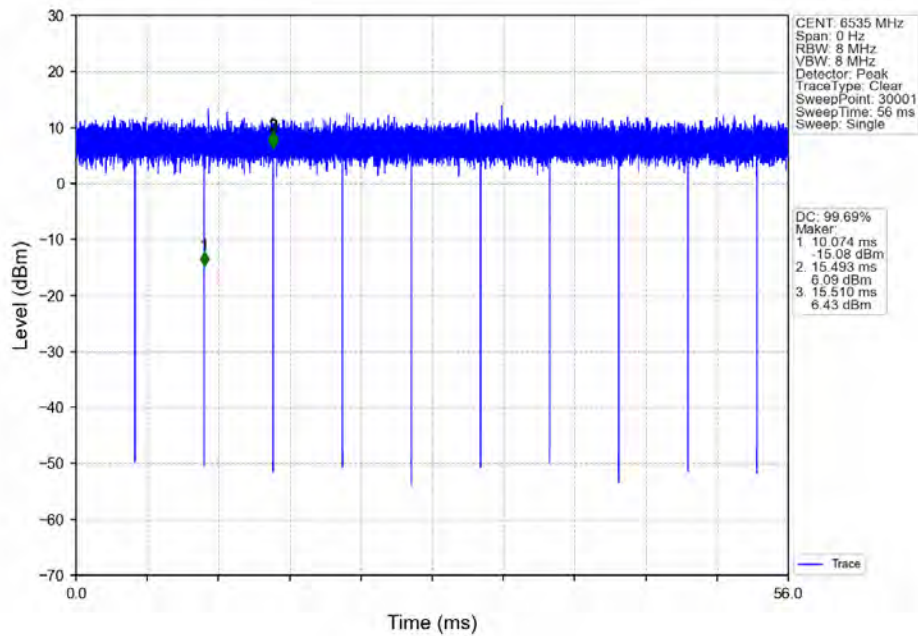
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1.2.6 Ant2

802.11ax(HE20) LCH 6535MHz RU242 Left Ant2 NTN



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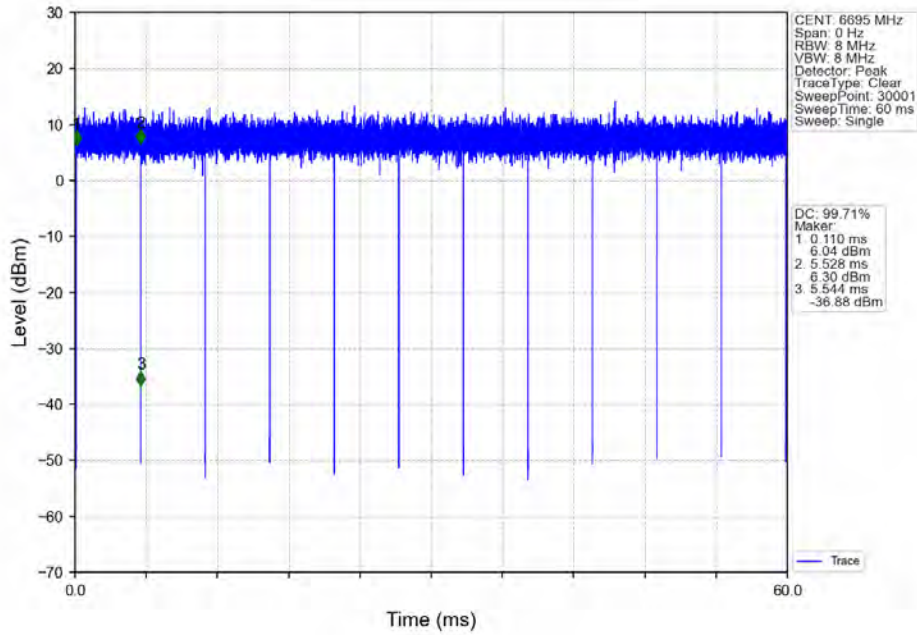
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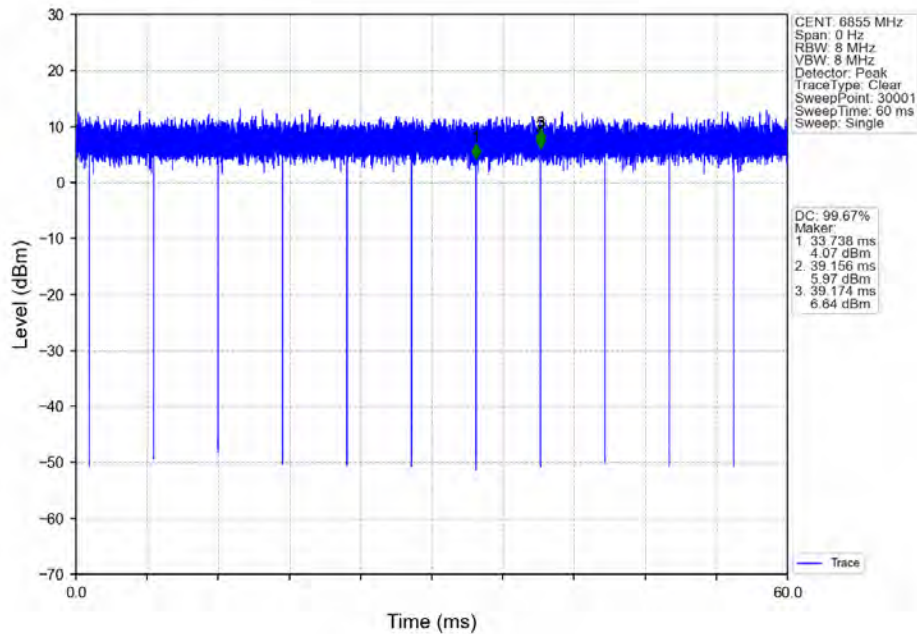
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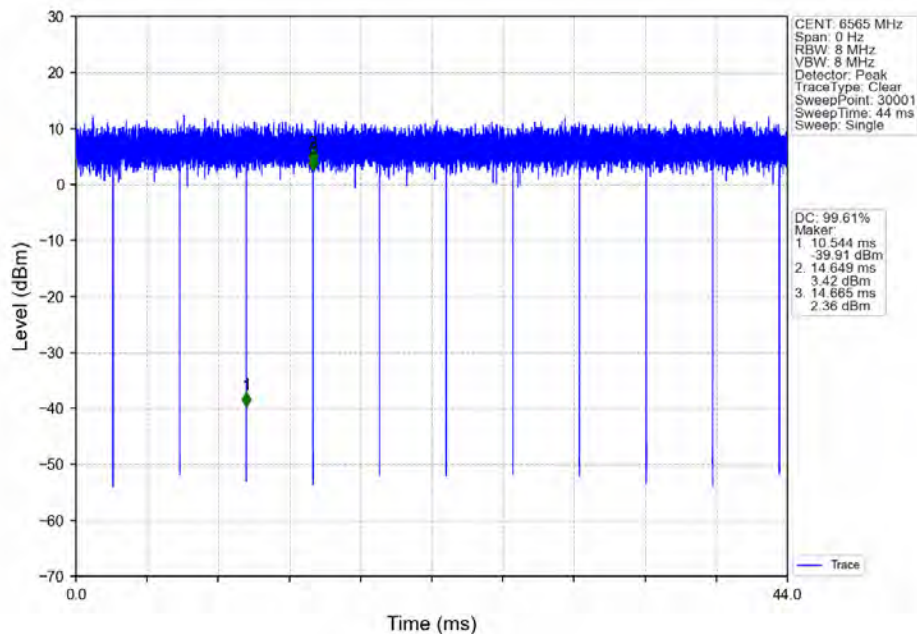
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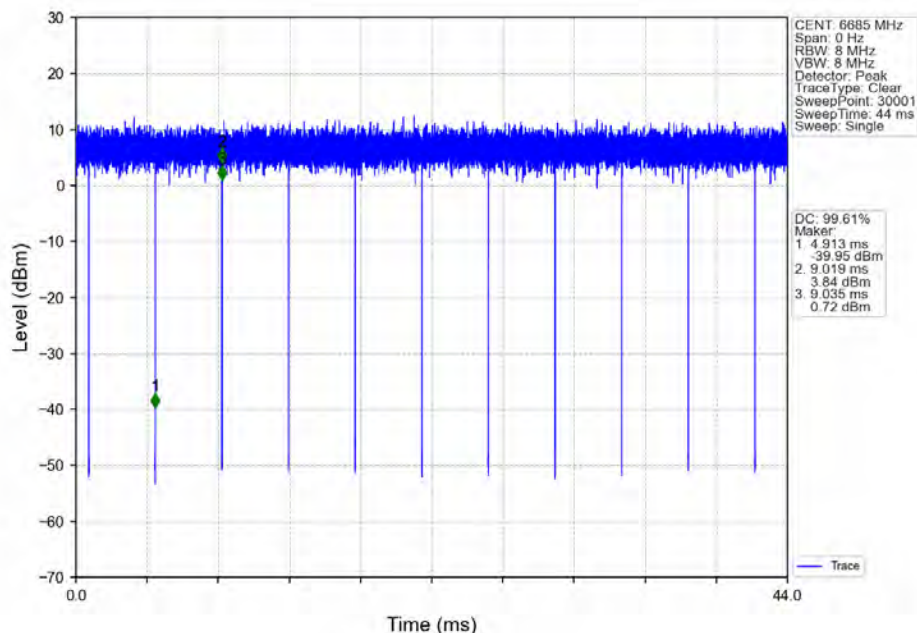
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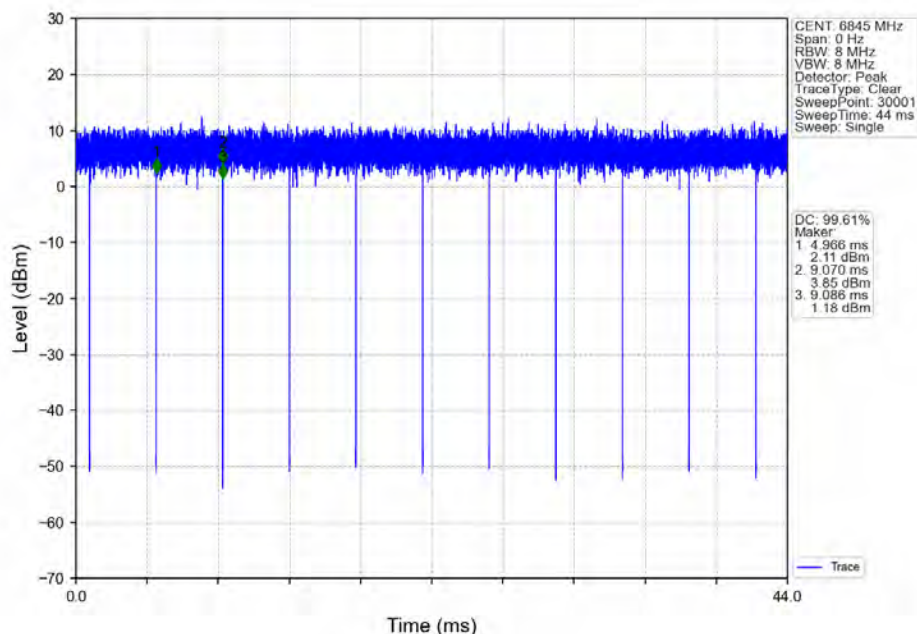
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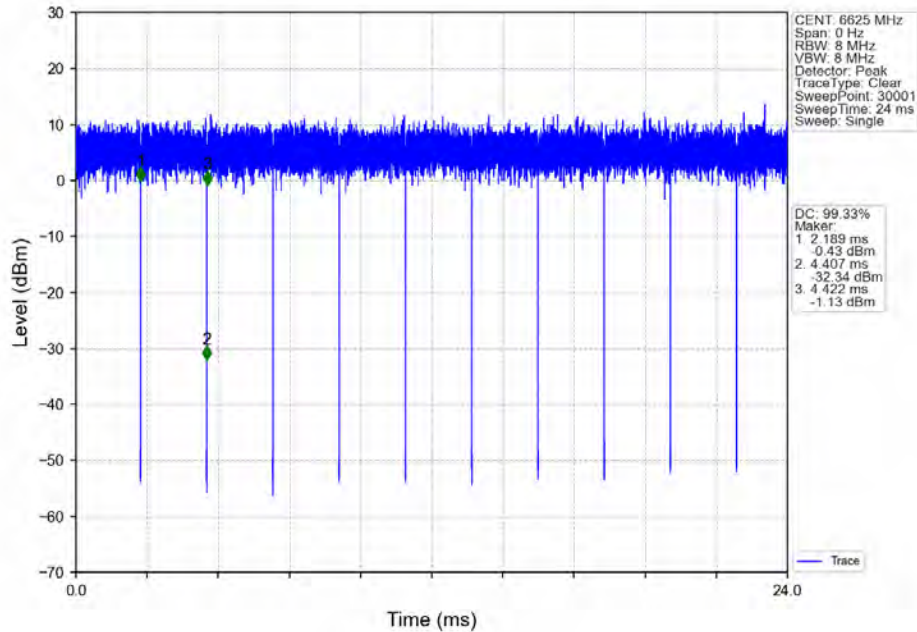
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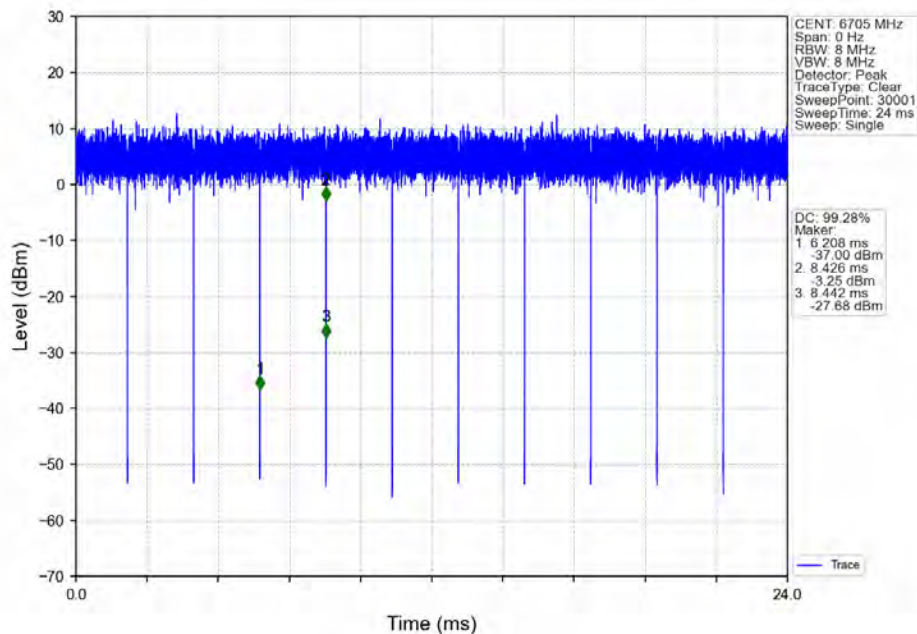
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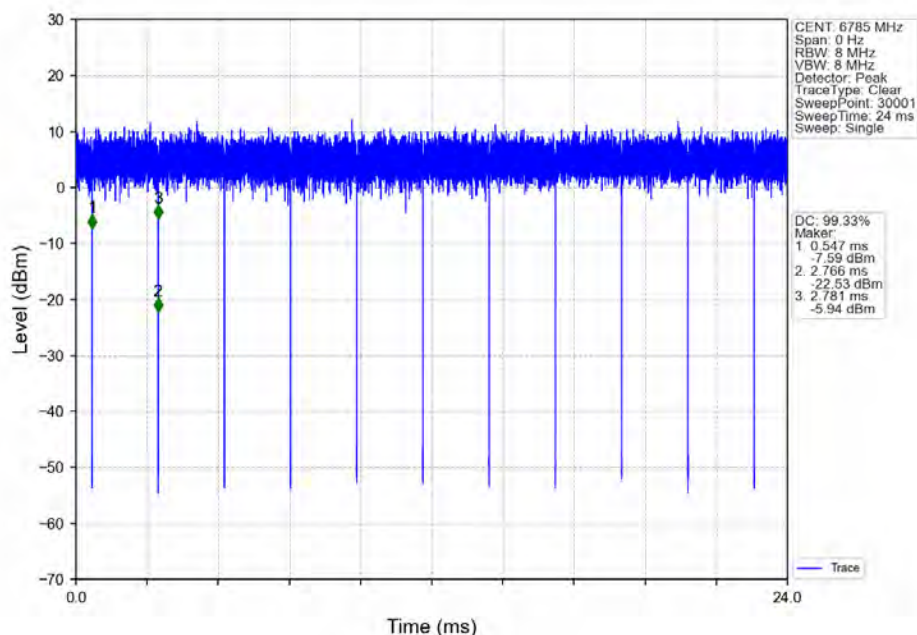
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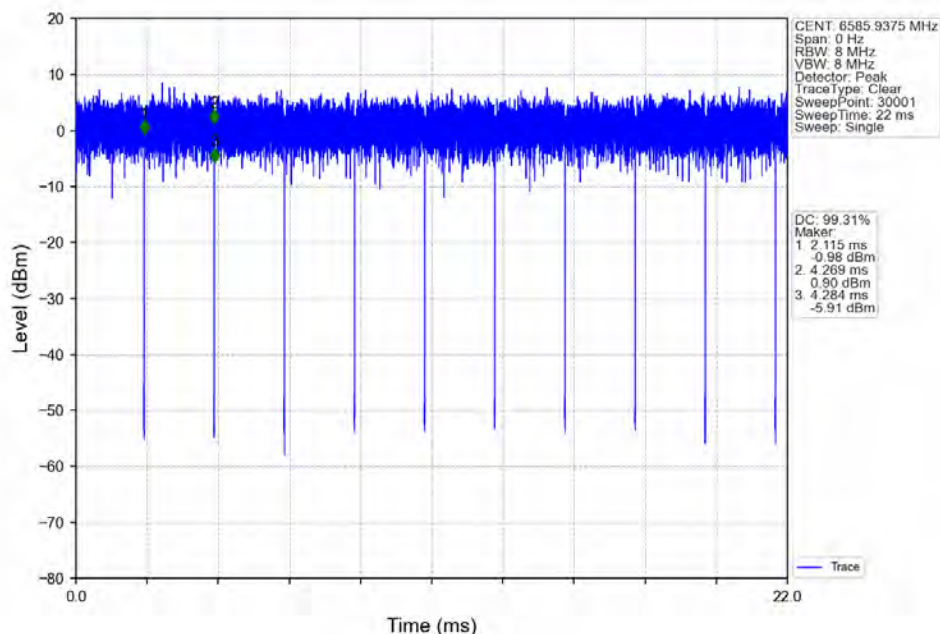
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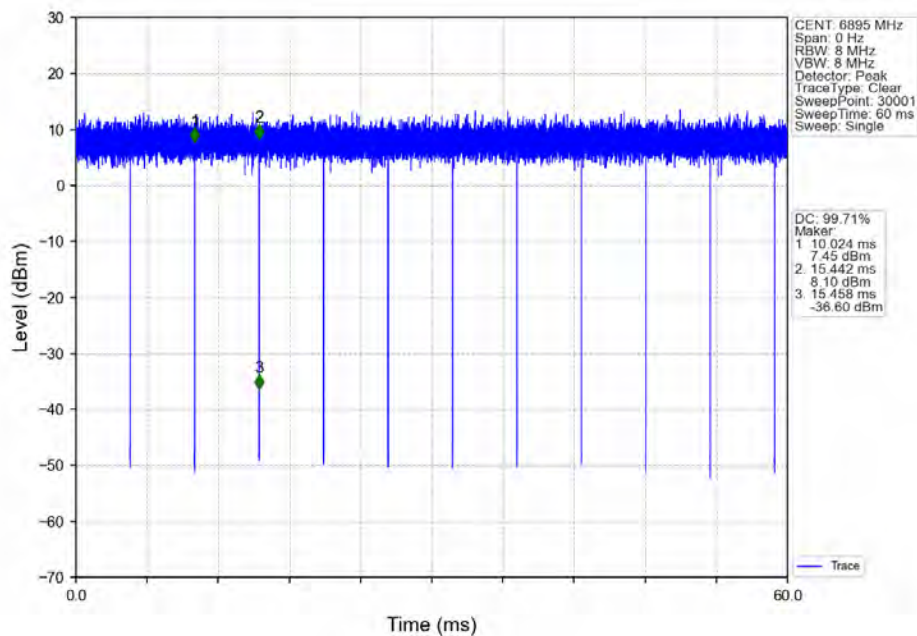
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1.2.7 Ant1

802.11ax(HE20) LCH 6895MHz RU242 Left Ant1 NTN



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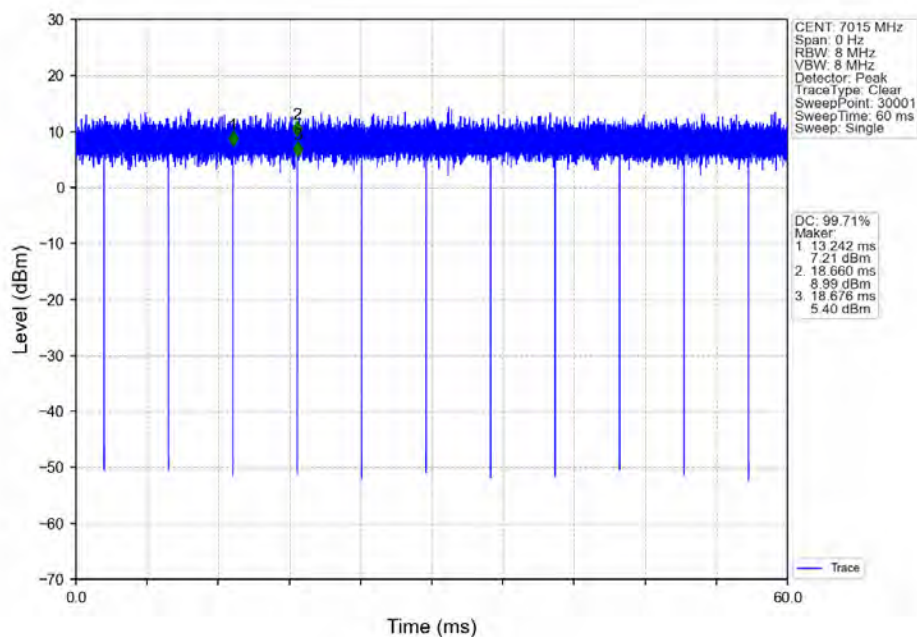
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802.11ax(HE20)_MCH_7015MHz_RU242_Left_Ant1_NTNV



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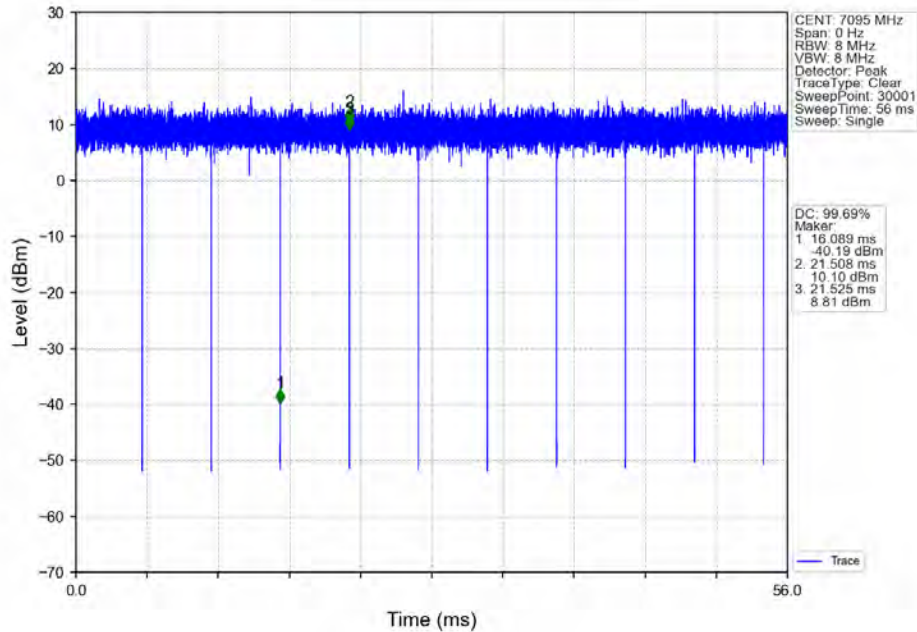
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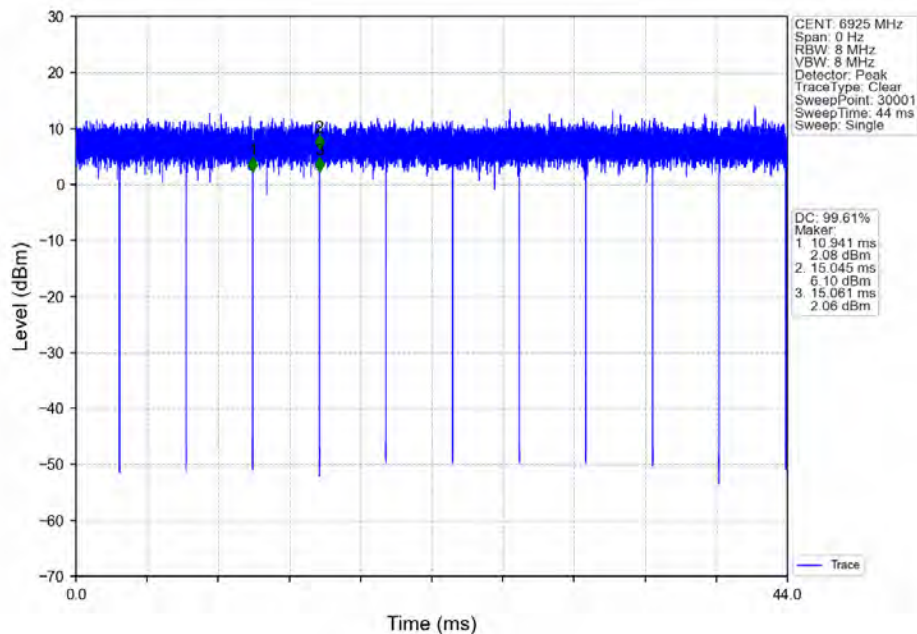
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802.11ax(HE20)_HCH_7095MHz_RU242_Left_Ant1_NTNV



802.11ax(HE40)_LCH_6925MHz_RU484_Left_Ant1_NTNV



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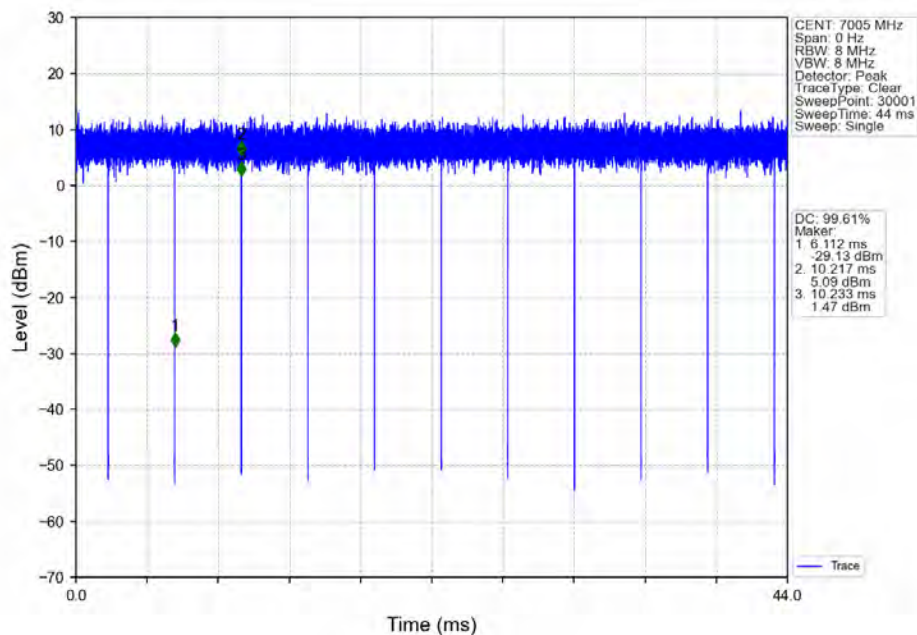
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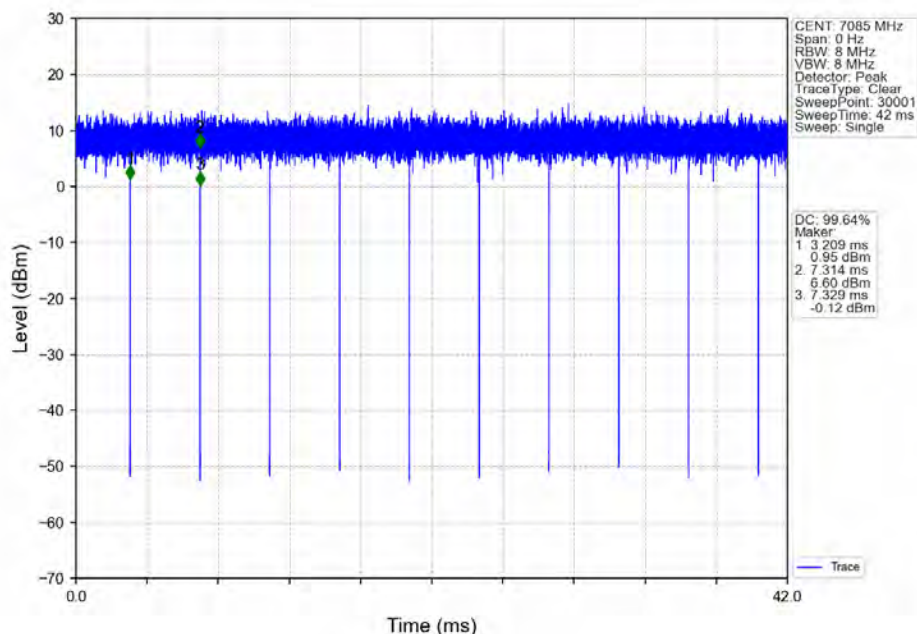
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802.11ax(HE40)_MCH_7005MHz_RU484_Left_Ant1_NTNV



802.11ax(HE40)_HCH_7085MHz_RU484_Left_Ant1_NTNV



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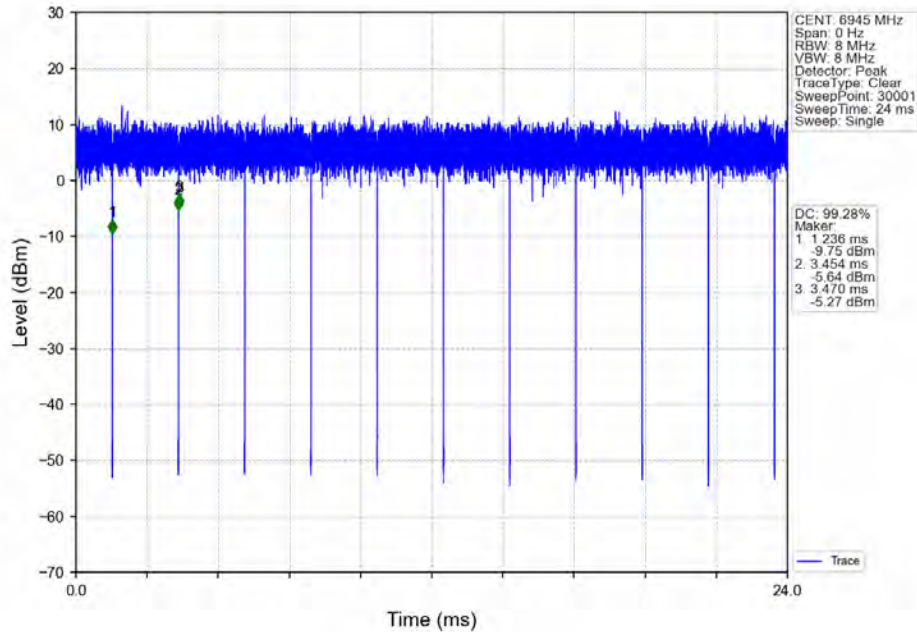
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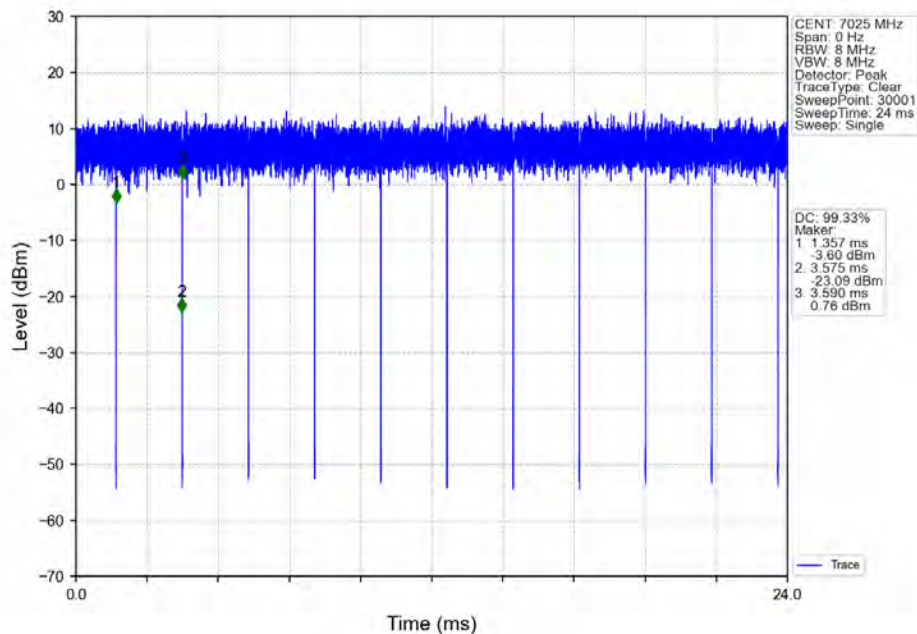
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802.11ax(HE80)_LCH_6945MHz_RU996_Left_Ant1_NTNV



802.11ax(HE80)_HCH_7025MHz_RU996_Left_Ant1_NTNV



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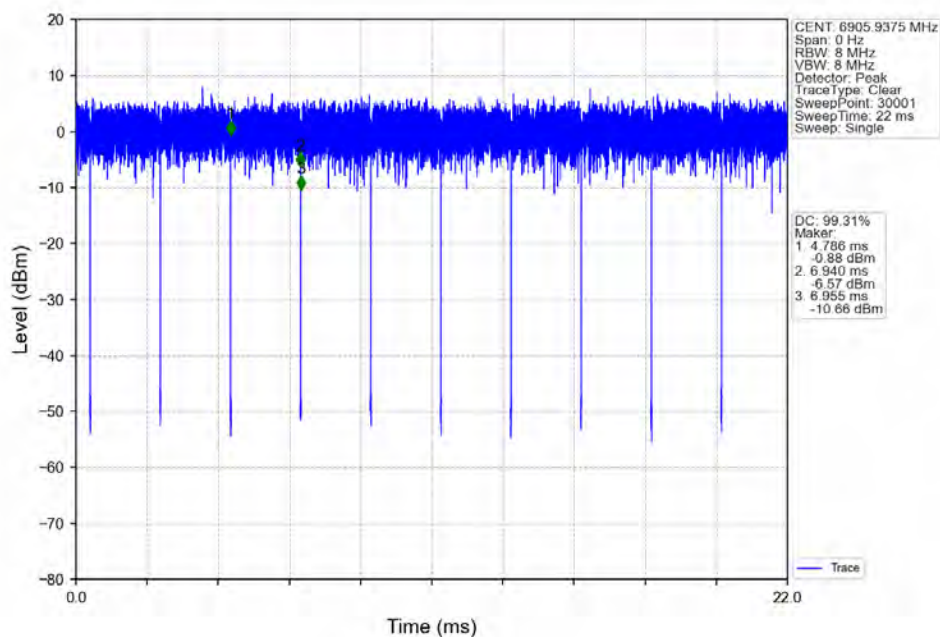
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802.11ax(HE160)_MCH_6985MHz_2xRU996_Left_Ant1_NTNV



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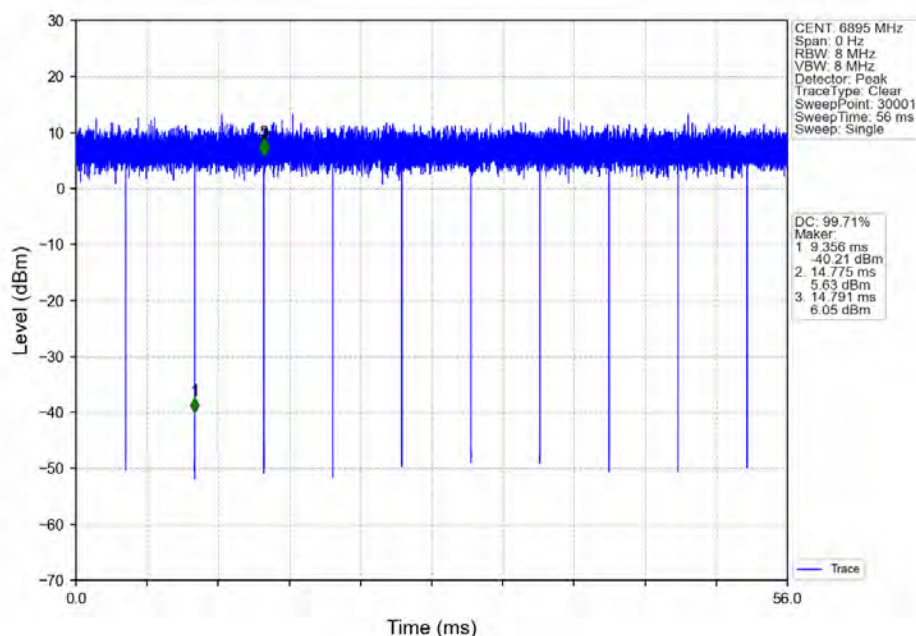
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1.2.8 Ant2

802.11ax(HE20) LCH 6895MHz RU242 Left Ant2 NTN



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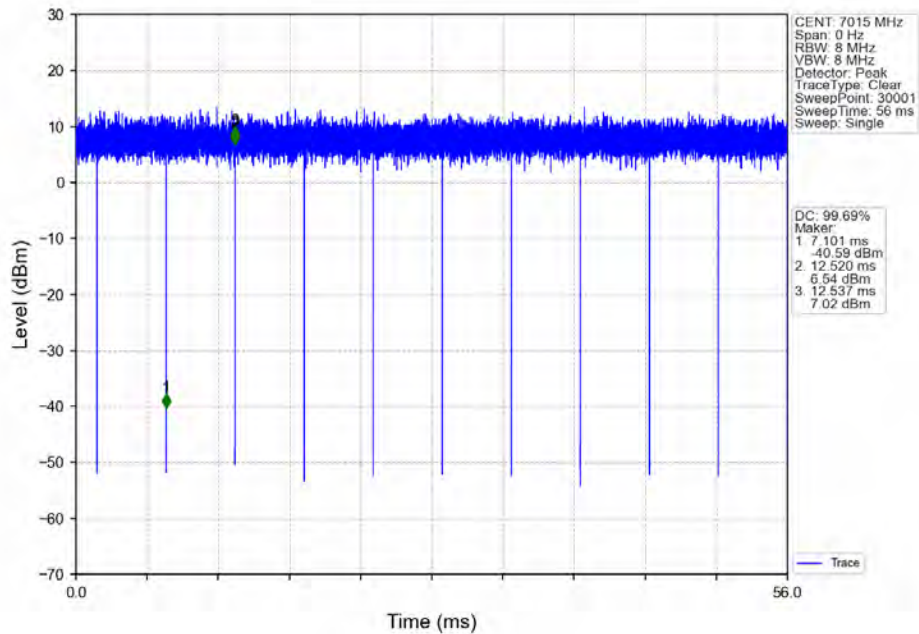
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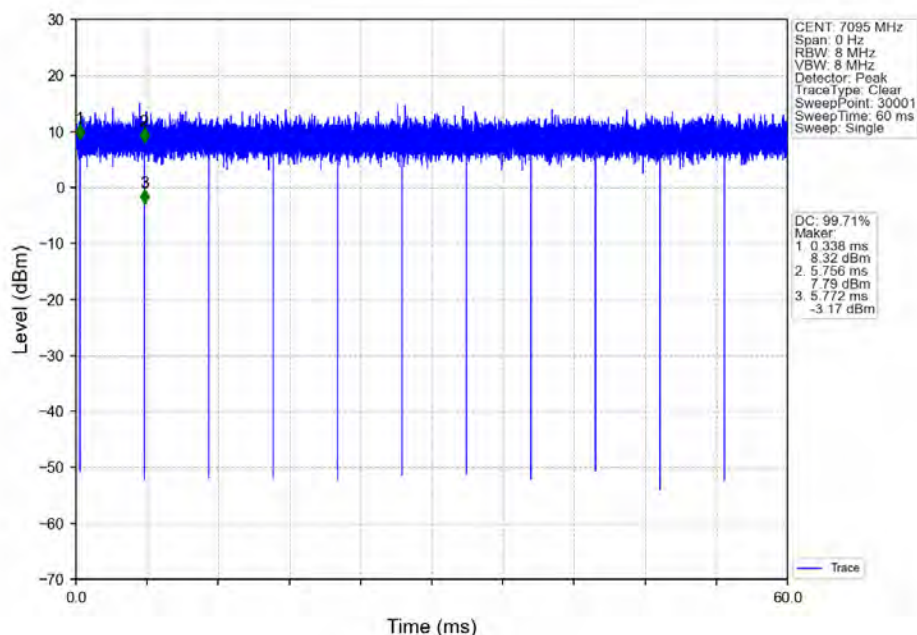
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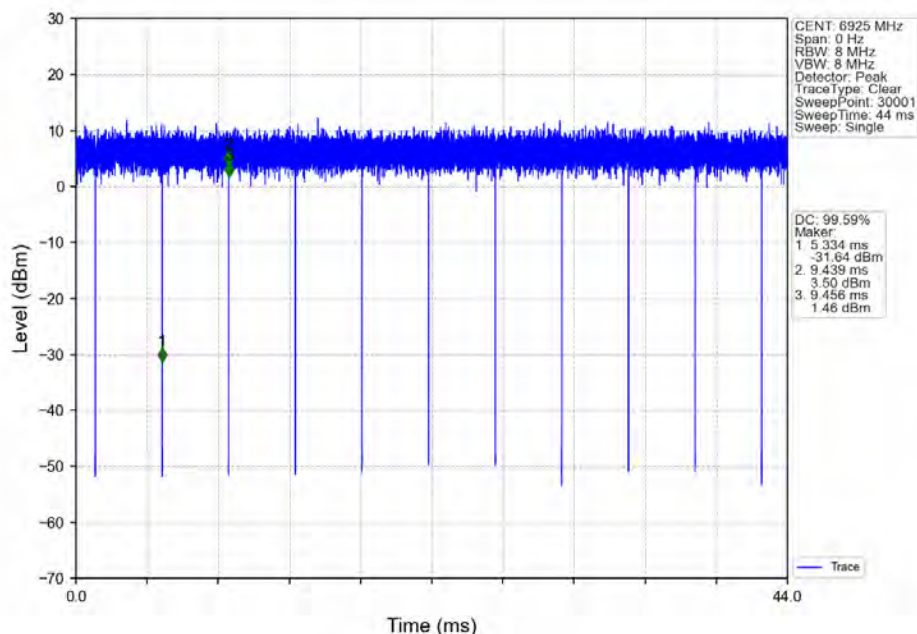
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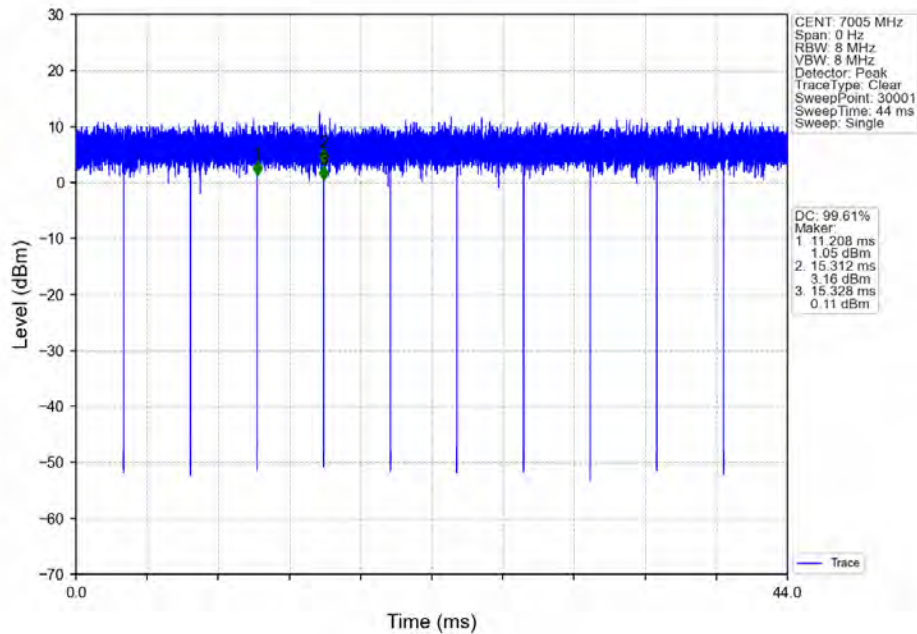
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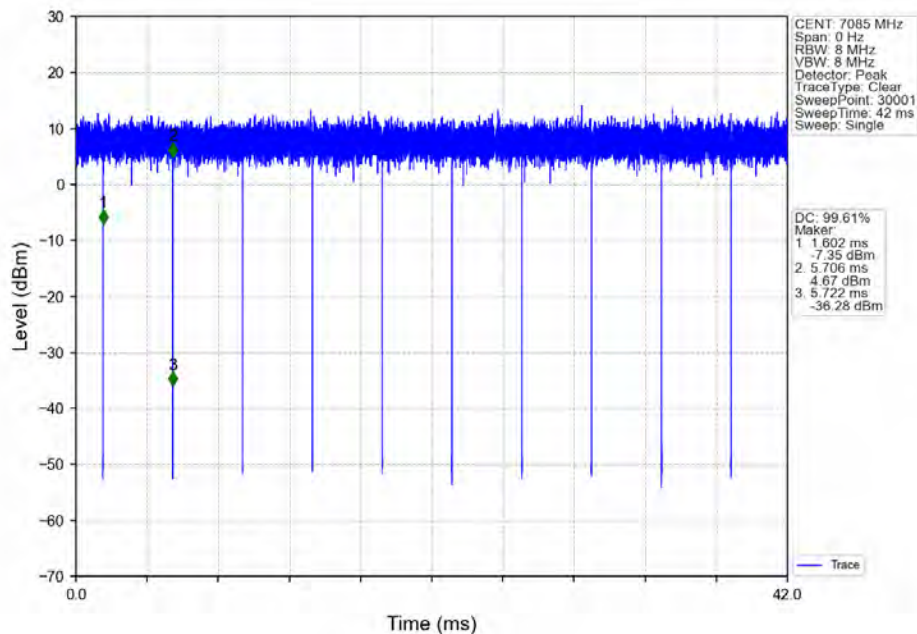
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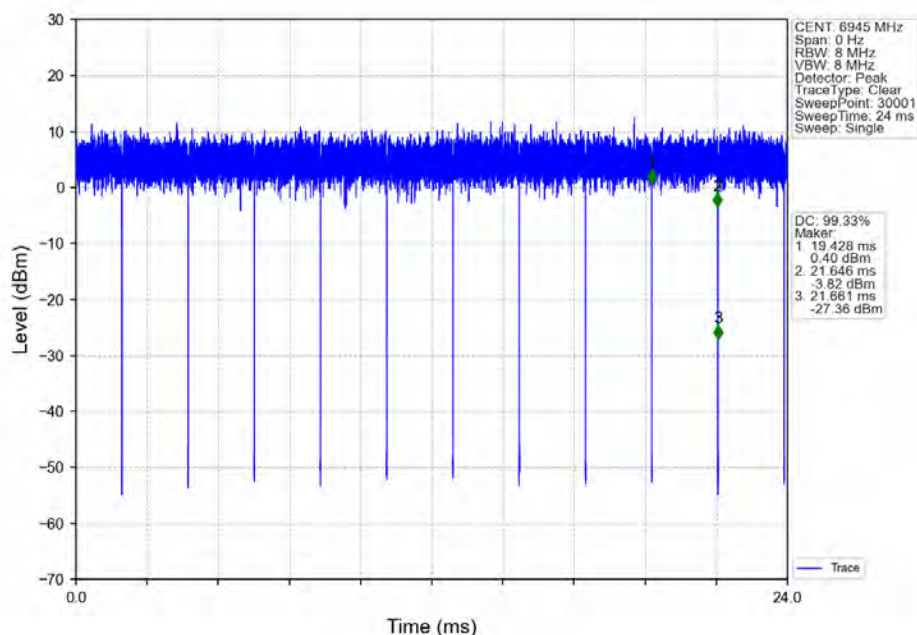
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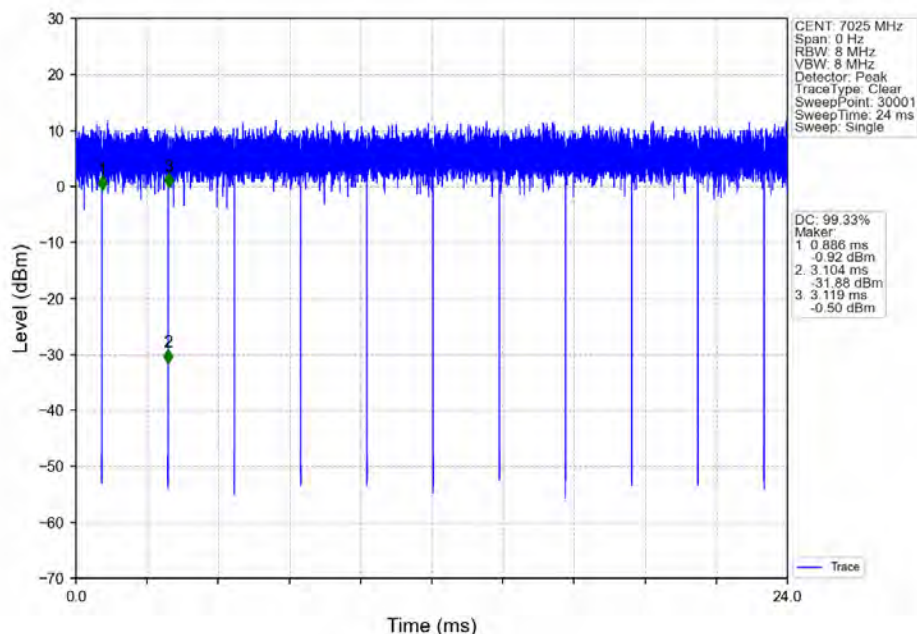
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802.11ax(HE80) HCH_7025MHz_RU996_Left_Ant2_NTNV



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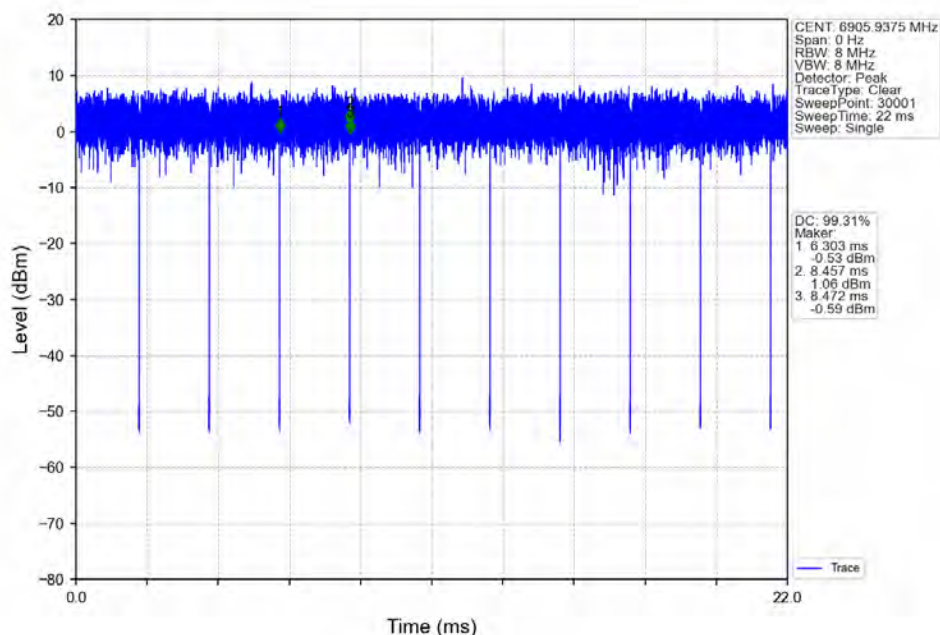
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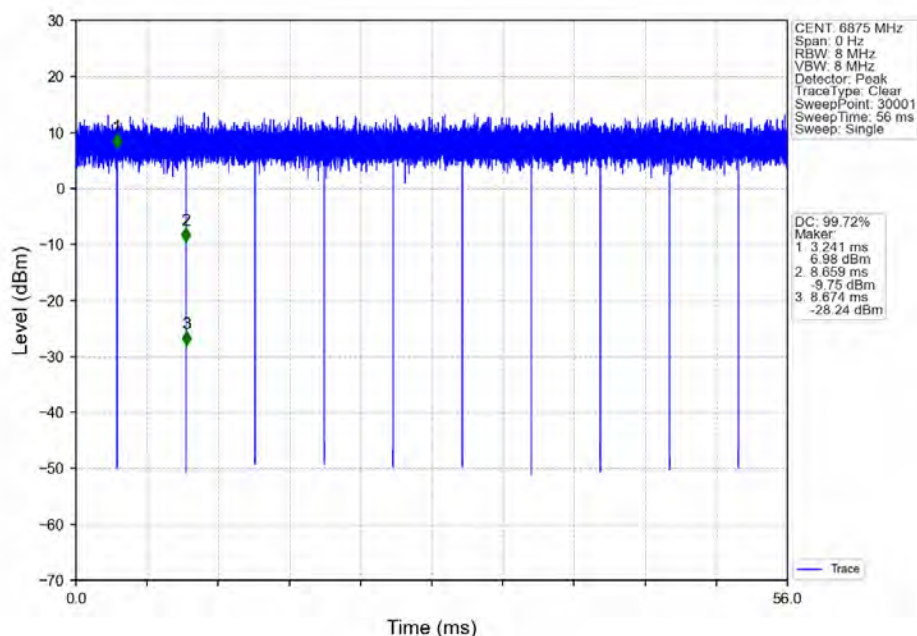
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1.2.9 Ant1

802.11ax(HE20) HCH 6875MHz RU242 Left Ant1 NTN



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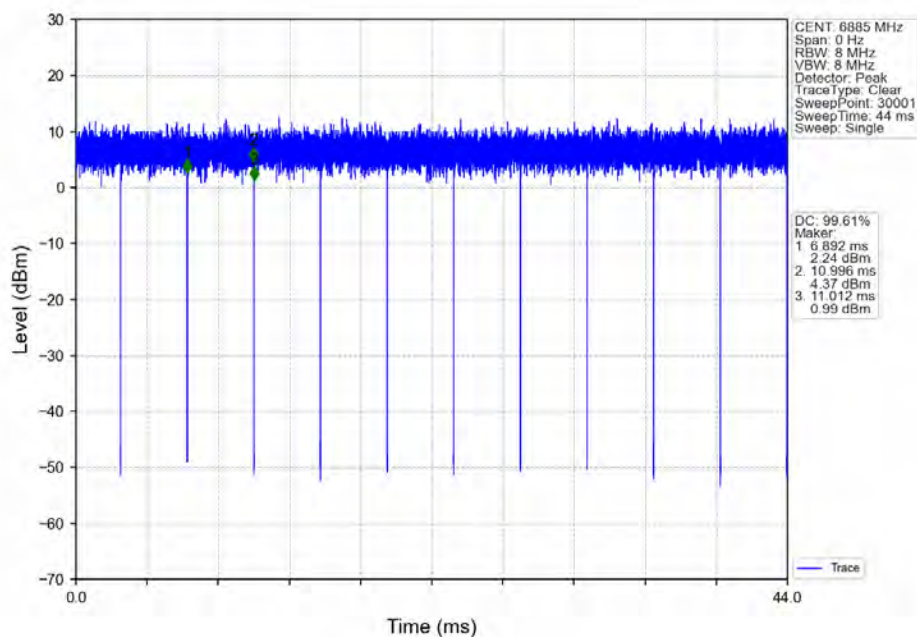
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802.11ax(HE40)_HCH_6885MHz_RU484_Left_Ant1_NTNV



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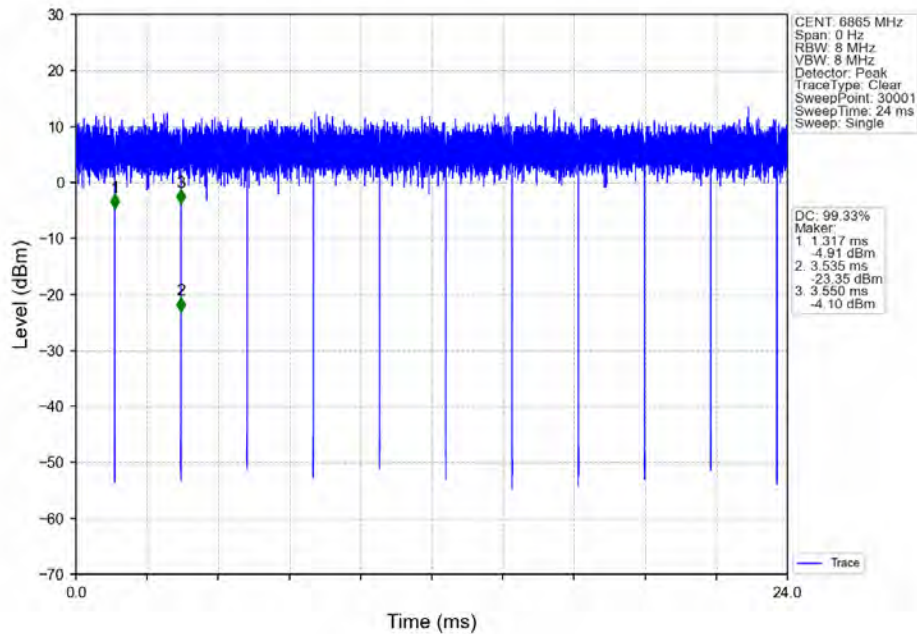
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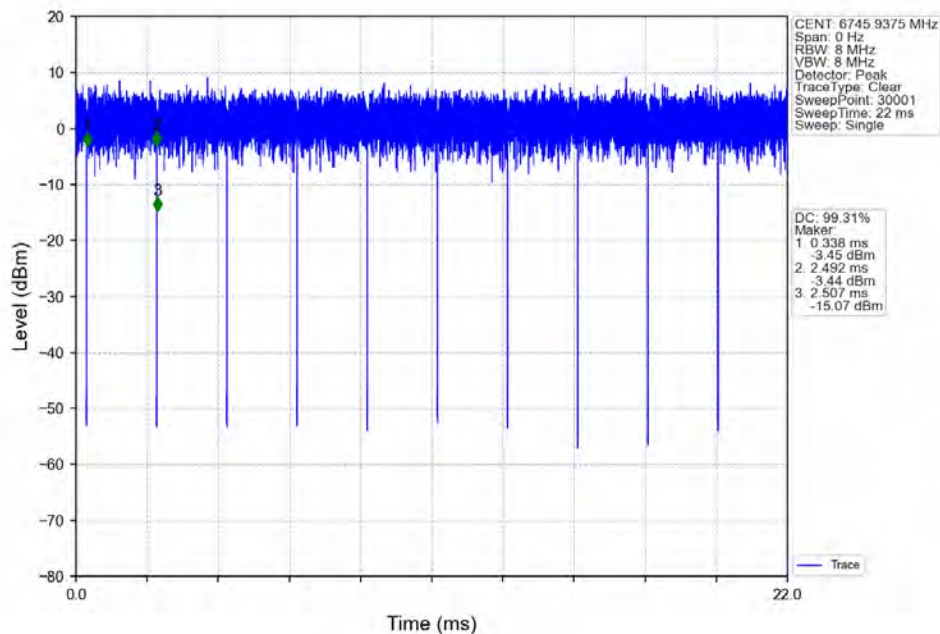
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802.11ax(HE80)_HCH_6865MHz_RU996_Left_Ant1_NTNV



802.11ax(HE160)_HCH_6825MHz_2xRU996_Left_Ant1_NTNV



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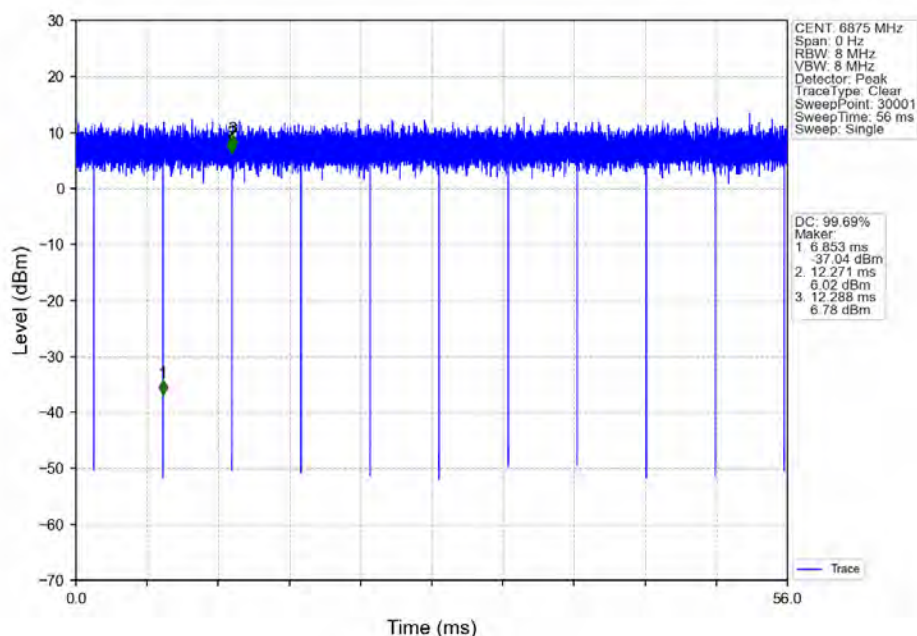
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1.2.10 Ant2

802.11ax(HE20) HCH 6875MHz RU242 Left Ant2 NTN



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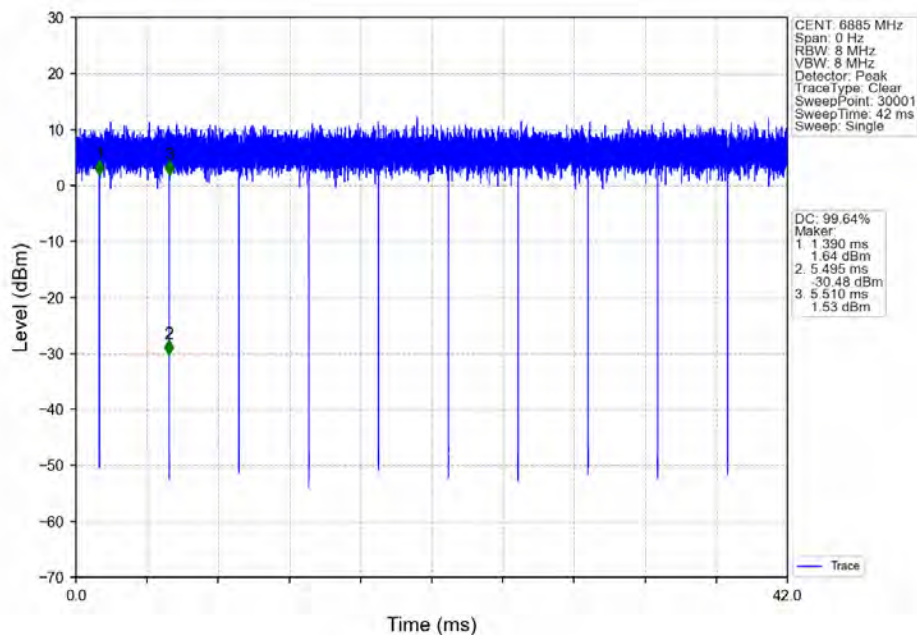
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802.11ax(HE40)_HCH_6885MHz_RU484_Left_Ant2_NTNV



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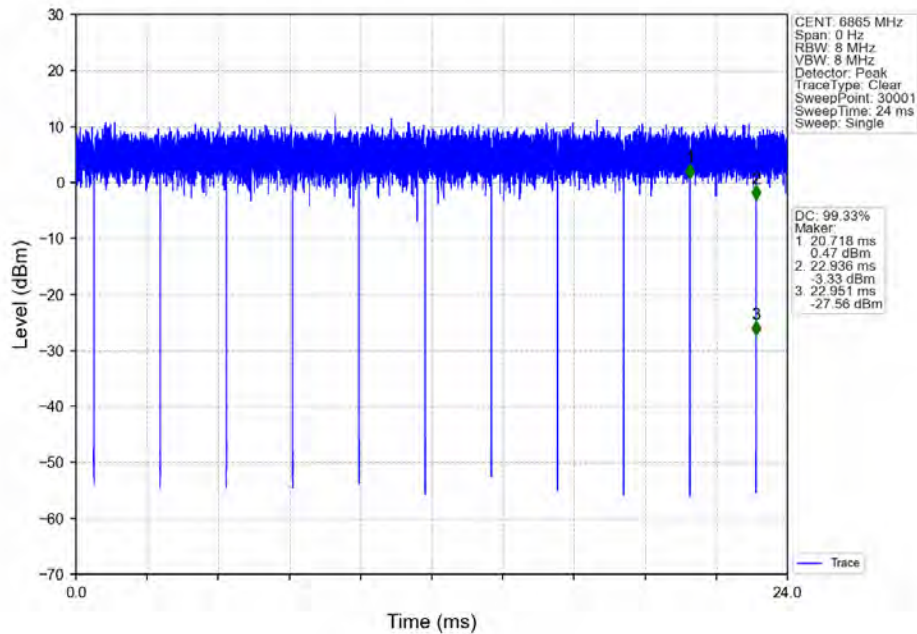
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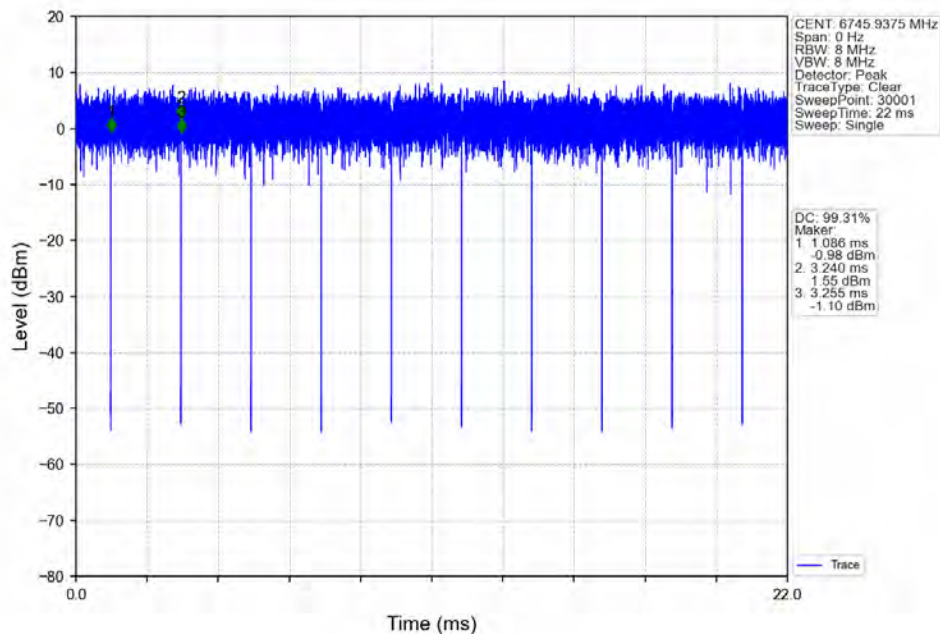
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802.11ax(HE80)_HCH_6865MHz_RU996_Left_Ant2_NTNV



802.11ax(HE160)_HCH_6825MHz_2xRU996_Left_Ant2_NTNV



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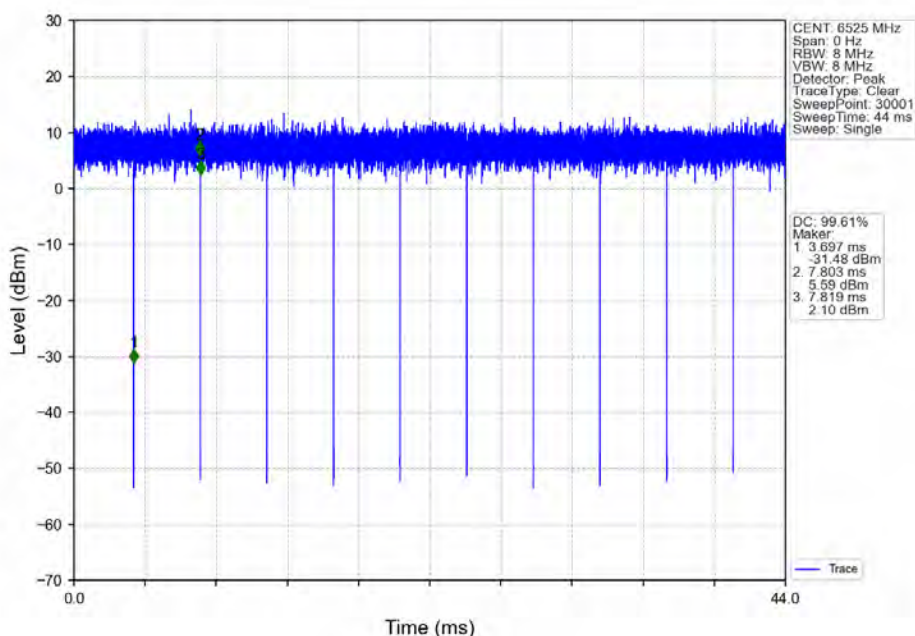
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1.2.11 Ant1

802.11ax(HE40) HCH 6525MHz RU484 Left Ant1 NTN



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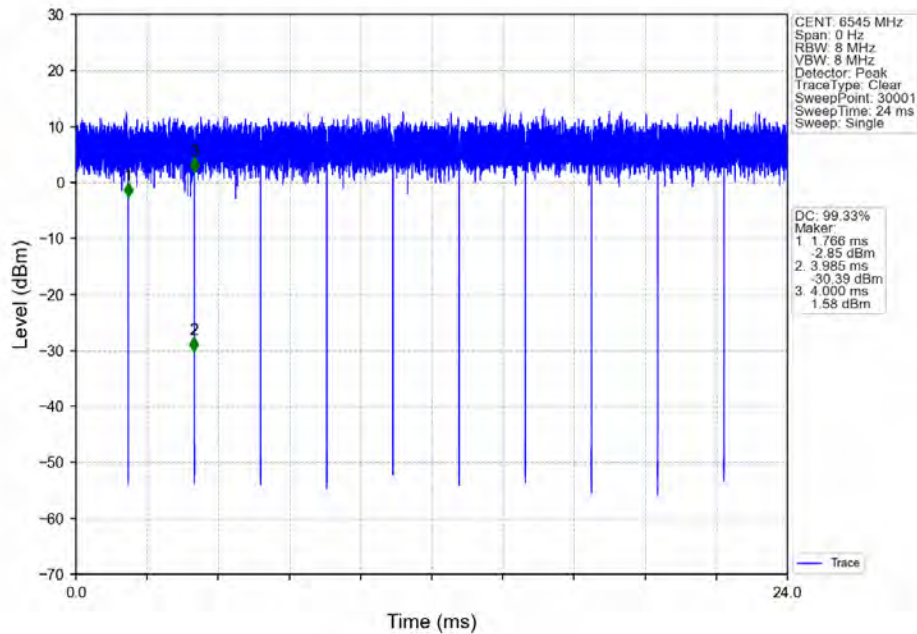
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802.11ax(HE80)_HCH_6545MHz_RU996_Left_Ant1_NTNV



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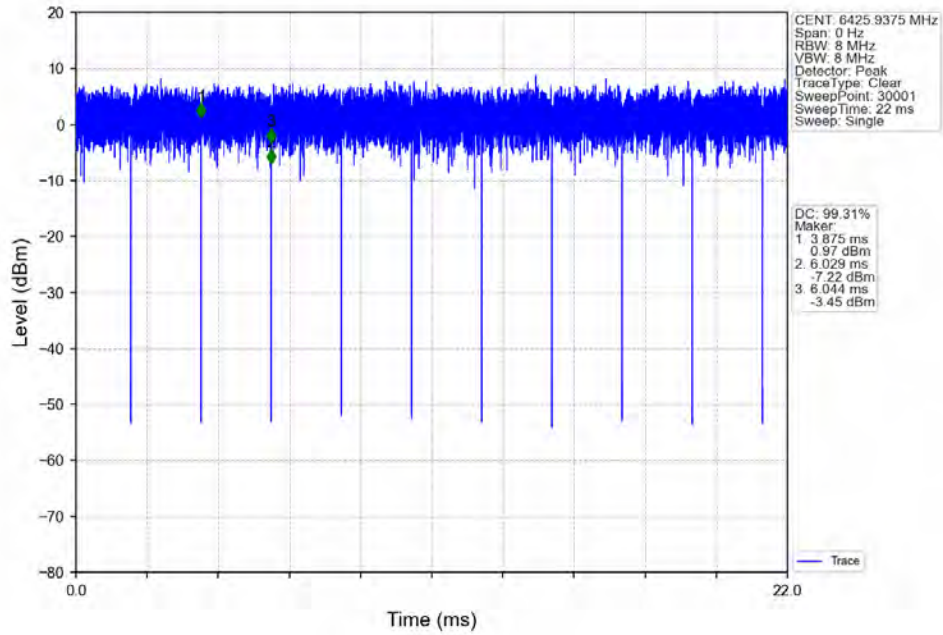
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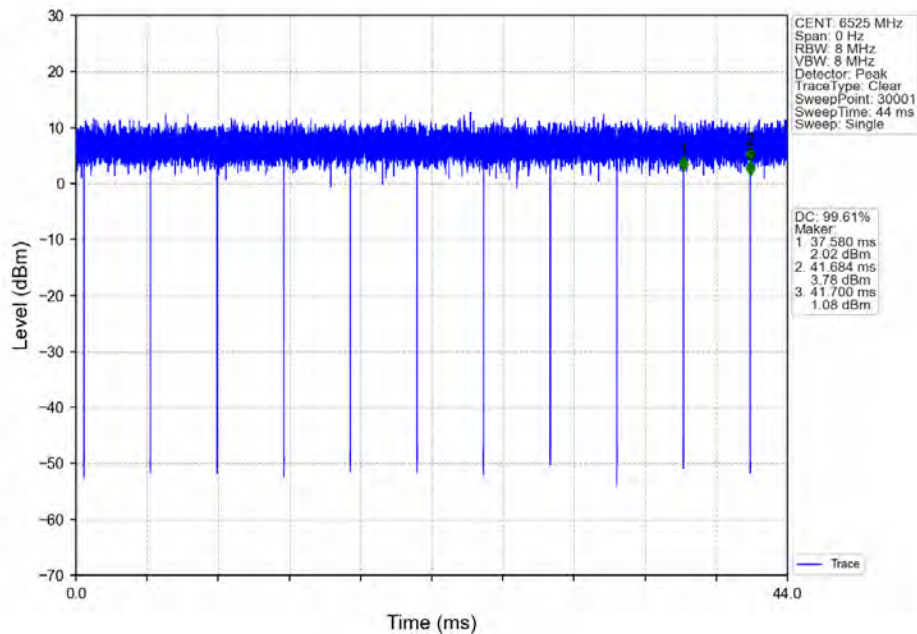
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1.2.12 Ant2

802.11ax(HE40) HCH 6525MHz RU484 Left Ant2 NTN



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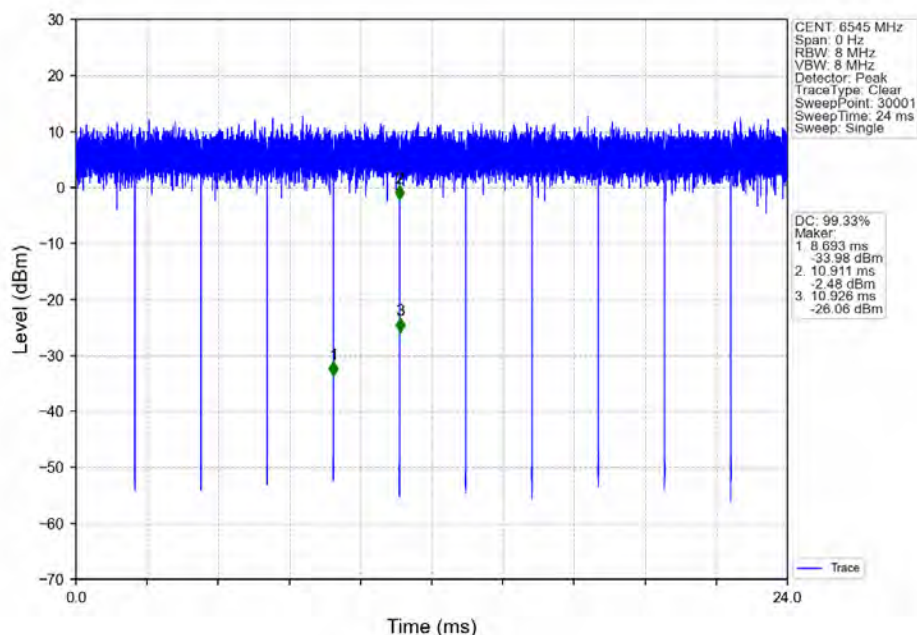
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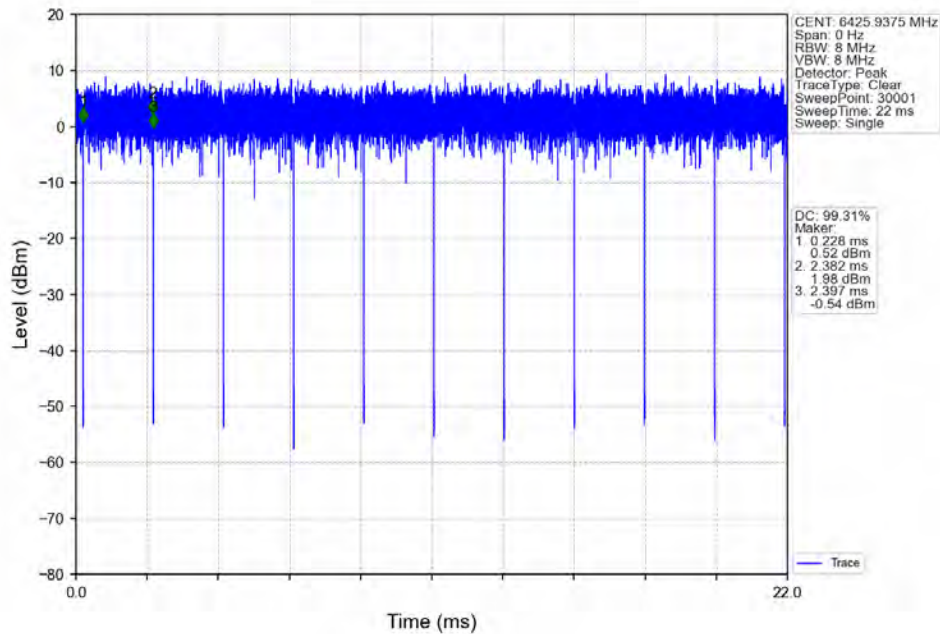
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HE20)	MIMO	5955	RU242	Left	1	19.125	<=320	Pass
						2	19.079	<=320	Pass
			6175	RU242	Left	1	19.131	<=320	Pass
						2	19.145	<=320	Pass
			6415	RU242	Left	1	19.120	<=320	Pass
						2	19.124	<=320	Pass
	802.11ax (HE40)	MIMO	5965	RU484	Left	1	37.990	<=320	Pass
						2	37.930	<=320	Pass
			6165	RU484	Left	1	37.954	<=320	Pass
						2	37.989	<=320	Pass
			6405	RU484	Left	1	38.034	<=320	Pass
						2	38.008	<=320	Pass
	802.11ax (HE80)	MIMO	5985	RU996	Left	1	77.545	<=320	Pass
						2	77.705	<=320	Pass
			6145	RU996	Left	1	77.677	<=320	Pass
						2	77.677	<=320	Pass
			6385	RU996	Left	1	77.718	<=320	Pass
						2	77.451	<=320	Pass
	802.11ax (HE160)	MIMO	6025	2xRU996	Left	1	156.577	<=320	Pass
						2	157.007	<=320	Pass
			6185	2xRU996	Left	1	156.799	<=320	Pass
						2	156.585	<=320	Pass
			6345	2xRU996	Left	1	156.186	<=320	Pass
						2	156.716	<=320	Pass



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2.1.2 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HE20)	MIMO	5955	RU242	Left	1	21.090	<=320	Pass
						2	21.125	<=320	Pass
			6175	RU242	Left	1	21.121	<=320	Pass
						2	20.871	<=320	Pass
			6415	RU242	Left	1	20.841	<=320	Pass
						2	20.792	<=320	Pass
	802.11ax (HE40)	MIMO	5965	RU484	Left	1	40.209	<=320	Pass
						2	40.490	<=320	Pass
			6165	RU484	Left	1	40.142	<=320	Pass
						2	40.248	<=320	Pass
			6405	RU484	Left	1	40.416	<=320	Pass
						2	40.223	<=320	Pass
	802.11ax (HE80)	MIMO	5985	RU996	Left	1	82.340	<=320	Pass
						2	82.648	<=320	Pass
			6145	RU996	Left	1	81.685	<=320	Pass
						2	82.214	<=320	Pass
			6385	RU996	Left	1	81.837	<=320	Pass
						2	81.794	<=320	Pass
	802.11ax (HE160)	MIMO	6025	2xRU996	Left	1	164.802	<=320	Pass
						2	165.661	<=320	Pass
			6185	2xRU996	Left	1	164.932	<=320	Pass
						2	164.027	<=320	Pass
			6345	2xRU996	Left	1	163.904	<=320	Pass
						2	164.915	<=320	Pass



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2.1.3 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HE20)	MIMO	6435	RU242	Left	1	19.190	<=320	Pass
						2	19.112	<=320	Pass
			6475	RU242	Left	1	19.134	<=320	Pass
						2	19.080	<=320	Pass
			6515	RU242	Left	1	19.142	<=320	Pass
						2	19.147	<=320	Pass
	802.11ax (HE40)	MIMO	6445	RU484	Left	1	37.941	<=320	Pass
						2	37.965	<=320	Pass
			6485	RU484	Left	1	37.980	<=320	Pass
						2	38.054	<=320	Pass
	802.11ax (HE80)	MIMO	6465	RU996	Left	1	77.586	<=320	Pass
						2	77.711	<=320	Pass

2.1.4 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HE20)	MIMO	6435	RU242	Left	1	21.081	<=320	Pass
						2	20.987	<=320	Pass
			6475	RU242	Left	1	20.745	<=320	Pass
						2	20.567	<=320	Pass
			6515	RU242	Left	1	21.007	<=320	Pass
						2	21.039	<=320	Pass
	802.11ax (HE40)	MIMO	6445	RU484	Left	1	40.356	<=320	Pass
						2	40.427	<=320	Pass
			6485	RU484	Left	1	40.253	<=320	Pass
						2	40.508	<=320	Pass
	802.11ax (HE80)	MIMO	6465	RU996	Left	1	81.776	<=320	Pass
						2	82.008	<=320	Pass



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2.1.5 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HE20)	MIMO	6535	RU242	Left	1	19.151	<=320	Pass
						2	19.133	<=320	Pass
			6695	RU242	Left	1	19.139	<=320	Pass
						2	19.160	<=320	Pass
			6855	RU242	Left	1	19.116	<=320	Pass
						2	19.147	<=320	Pass
	802.11ax (HE40)	MIMO	6565	RU484	Left	1	38.005	<=320	Pass
						2	38.022	<=320	Pass
			6685	RU484	Left	1	38.035	<=320	Pass
						2	38.026	<=320	Pass
			6845	RU484	Left	1	38.053	<=320	Pass
						2	38.034	<=320	Pass
	802.11ax (HE80)	MIMO	6625	RU996	Left	1	77.748	<=320	Pass
						2	77.689	<=320	Pass
			6705	RU996	Left	1	77.639	<=320	Pass
						2	77.586	<=320	Pass
			6785	RU996	Left	1	77.608	<=320	Pass
						2	77.918	<=320	Pass
	802.11ax (HE160)	MIMO	6665	2xRU996	Left	1	156.344	<=320	Pass
						2	156.570	<=320	Pass

2.1.6 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HE20)	MIMO	6535	RU242	Left	1	20.734	<=320	Pass
						2	20.641	<=320	Pass
			6695	RU242	Left	1	20.889	<=320	Pass
						2	21.019	<=320	Pass
			6855	RU242	Left	1	20.648	<=320	Pass
						2	20.855	<=320	Pass
	802.11ax (HE40)	MIMO	6565	RU484	Left	1	39.956	<=320	Pass
						2	40.611	<=320	Pass
			6685	RU484	Left	1	40.371	<=320	Pass
						2	40.275	<=320	Pass
			6845	RU484	Left	1	40.259	<=320	Pass
						2	40.284	<=320	Pass
	802.11ax (HE80)	MIMO	6625	RU996	Left	1	82.129	<=320	Pass
						2	82.024	<=320	Pass
			6705	RU996	Left	1	82.380	<=320	Pass
						2	82.386	<=320	Pass
			6785	RU996	Left	1	82.238	<=320	Pass
						2	81.899	<=320	Pass
	802.11ax (HE160)	MIMO	6665	2xRU996	Left	1	163.722	<=320	Pass
						2	164.233	<=320	Pass



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2.1.7 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HE20)	MIMO	6895	RU242	Left	1	19.120	<=320	Pass
						2	19.101	<=320	Pass
			7015	RU242	Left	1	19.145	<=320	Pass
						2	19.114	<=320	Pass
			7095	RU242	Left	1	19.144	<=320	Pass
						2	19.165	<=320	Pass
	802.11ax (HE40)	MIMO	6925	RU484	Left	1	37.961	<=320	Pass
						2	38.002	<=320	Pass
			7005	RU484	Left	1	38.064	<=320	Pass
						2	37.978	<=320	Pass
			7085	RU484	Left	1	37.880	<=320	Pass
						2	38.011	<=320	Pass
	802.11ax (HE80)	MIMO	6945	RU996	Left	1	77.544	<=320	Pass
						2	77.717	<=320	Pass
			7025	RU996	Left	1	77.755	<=320	Pass
						2	77.866	<=320	Pass
	802.11ax (HE160)	MIMO	6985	2xRU996	Left	1	156.696	<=320	Pass
						2	156.714	<=320	Pass

2.1.8 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HE20)	MIMO	6895	RU242	Left	1	20.784	<=320	Pass
						2	20.768	<=320	Pass
			7015	RU242	Left	1	20.948	<=320	Pass
						2	21.058	<=320	Pass
			7095	RU242	Left	1	20.802	<=320	Pass
						2	21.023	<=320	Pass
	802.11ax (HE40)	MIMO	6925	RU484	Left	1	40.624	<=320	Pass
						2	40.275	<=320	Pass
			7005	RU484	Left	1	40.227	<=320	Pass
						2	40.646	<=320	Pass
			7085	RU484	Left	1	40.627	<=320	Pass
						2	40.125	<=320	Pass
	802.11ax (HE80)	MIMO	6945	RU996	Left	1	82.215	<=320	Pass
						2	82.222	<=320	Pass
			7025	RU996	Left	1	81.826	<=320	Pass
						2	81.563	<=320	Pass
	802.11ax (HE160)	MIMO	6985	2xRU996	Left	1	165.628	<=320	Pass
						2	164.878	<=320	Pass



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2.1.9 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HE20)	MIMO	6875	RU242	Left	1	19.139	<=320	Pass
						2	19.135	<=320	Pass
	802.11ax (HE40)	MIMO	6885	RU484	Left	1	37.971	<=320	Pass
						2	37.997	<=320	Pass
	802.11ax (HE80)	MIMO	6865	RU996	Left	1	77.506	<=320	Pass
						2	77.540	<=320	Pass
	802.11ax (HE160)	MIMO	6825	2xRU996	Left	1	157.143	<=320	Pass
						2	156.398	<=320	Pass

2.1.10 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HE20)	MIMO	6875	RU242	Left	1	20.761	<=320	Pass
						2	20.876	<=320	Pass
	802.11ax (HE40)	MIMO	6885	RU484	Left	1	40.297	<=320	Pass
						2	40.444	<=320	Pass
	802.11ax (HE80)	MIMO	6865	RU996	Left	1	82.405	<=320	Pass
						2	82.104	<=320	Pass
	802.11ax (HE160)	MIMO	6825	2xRU996	Left	1	165.474	<=320	Pass
						2	164.139	<=320	Pass

2.1.11 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HE40)	MIMO	6525	RU484	Left	1	37.975	<=320	Pass
						2	37.971	<=320	Pass
	802.11ax (HE80)	MIMO	6545	RU996	Left	1	77.934	<=320	Pass
						2	77.466	<=320	Pass
	802.11ax (HE160)	MIMO	6505	2xRU996	Left	1	156.781	<=320	Pass
						2	156.548	<=320	Pass

2.1.12 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HE40)	MIMO	6525	RU484	Left	1	40.302	<=320	Pass
						2	40.550	<=320	Pass
	802.11ax (HE80)	MIMO	6545	RU996	Left	1	82.376	<=320	Pass
						2	82.232	<=320	Pass
	802.11ax (HE160)	MIMO	6505	2xRU996	Left	1	165.538	<=320	Pass
						2	163.755	<=320	Pass



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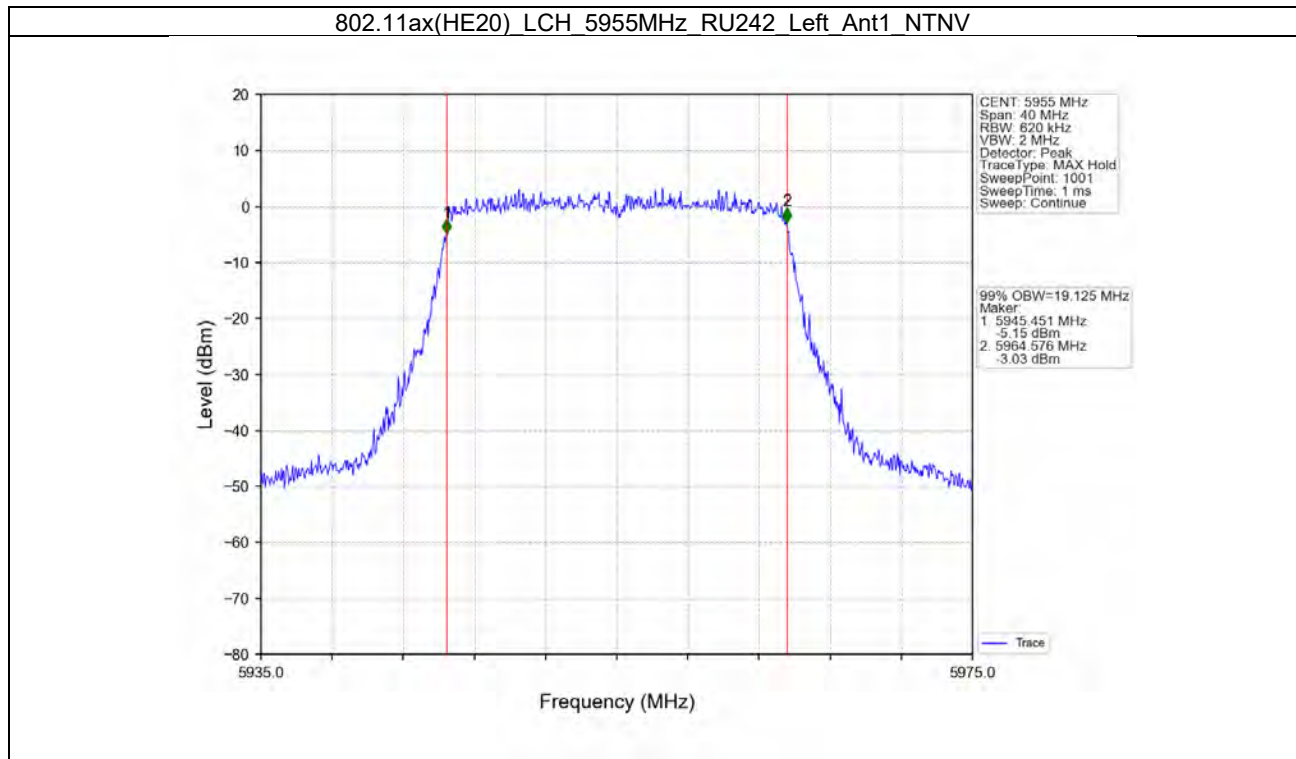
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2.2 Test Graph

2.2.1 OBW



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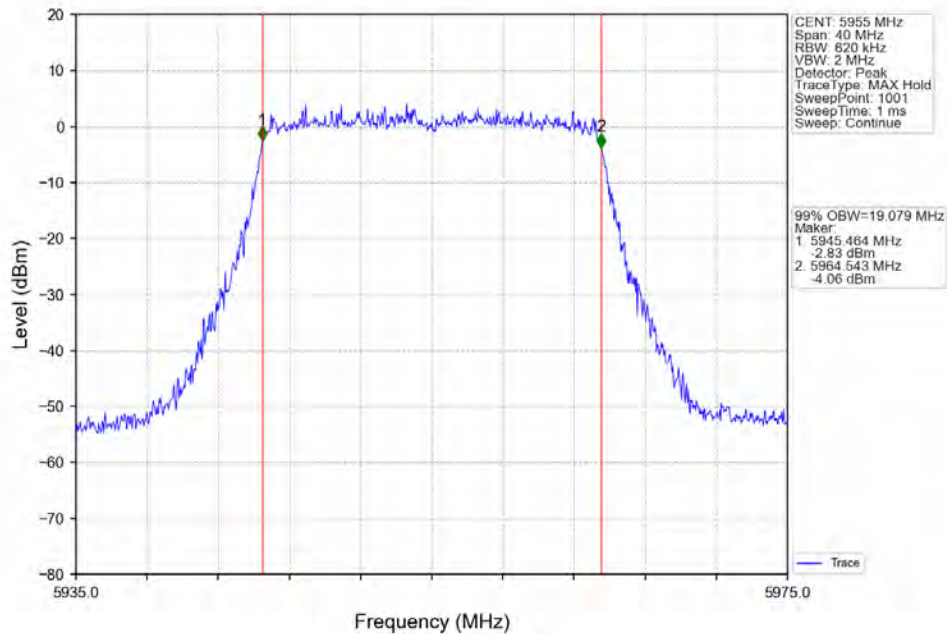
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802.11ax(HE20)_LCH_5955MHz_RU242_Left_Ant2_NTNV



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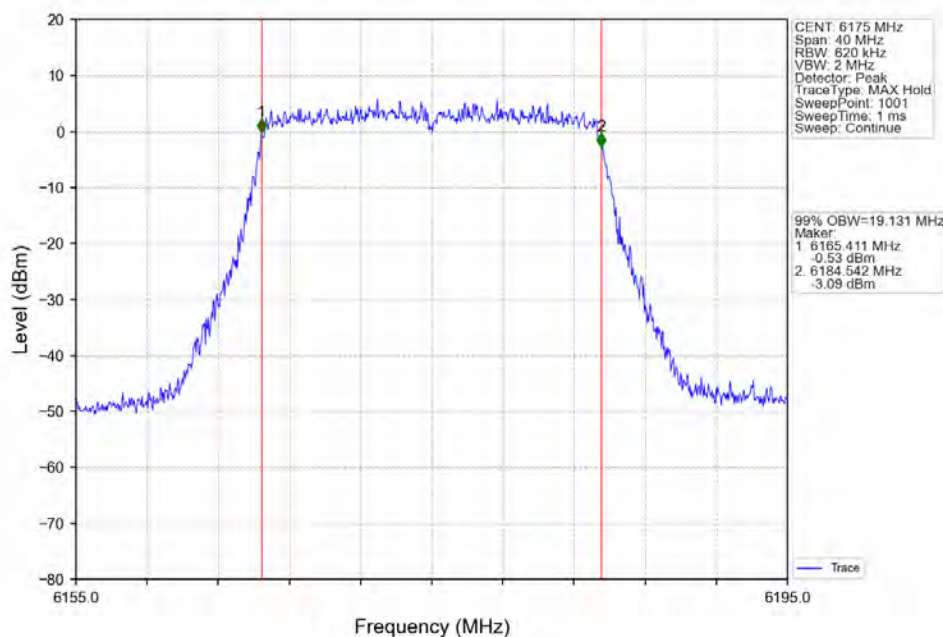
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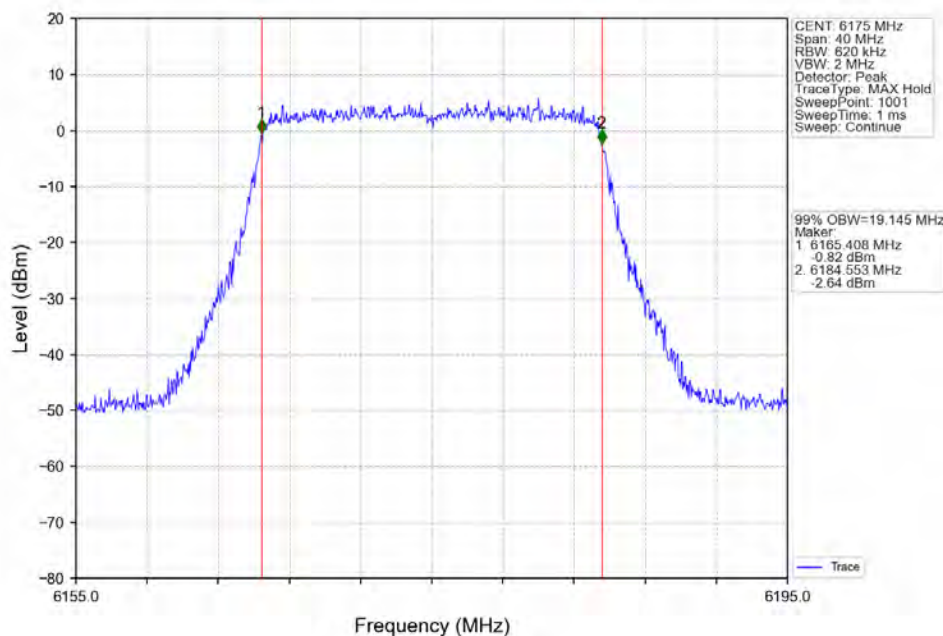
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802.11ax(HE20)_MCH_6175MHz_RU242_Left_Ant1_NTNV



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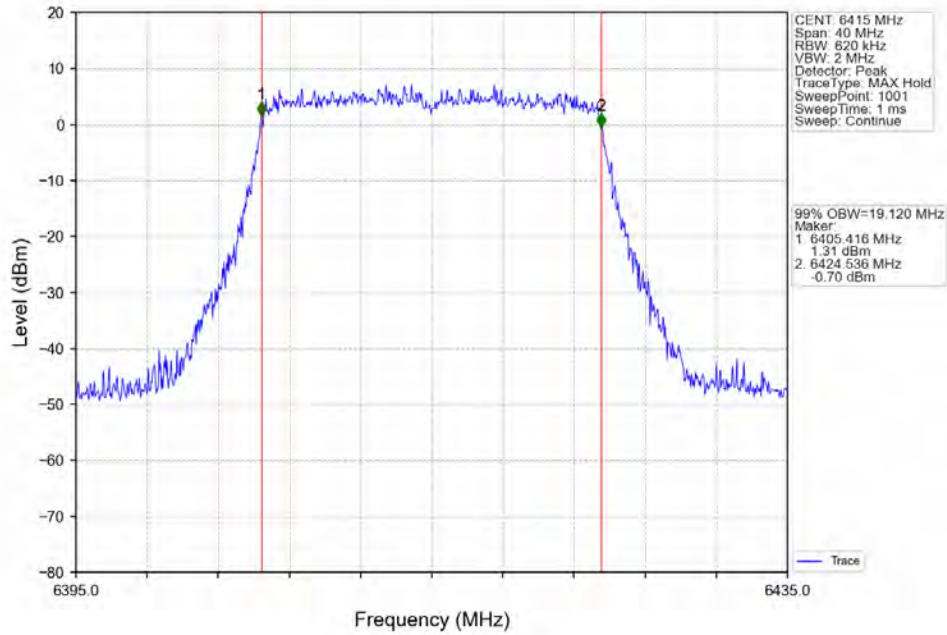
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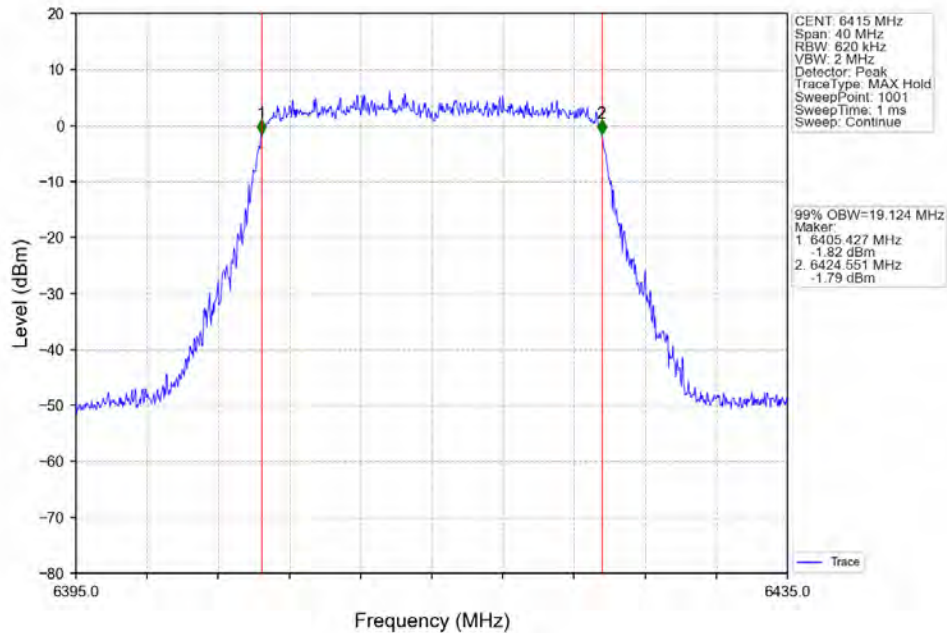
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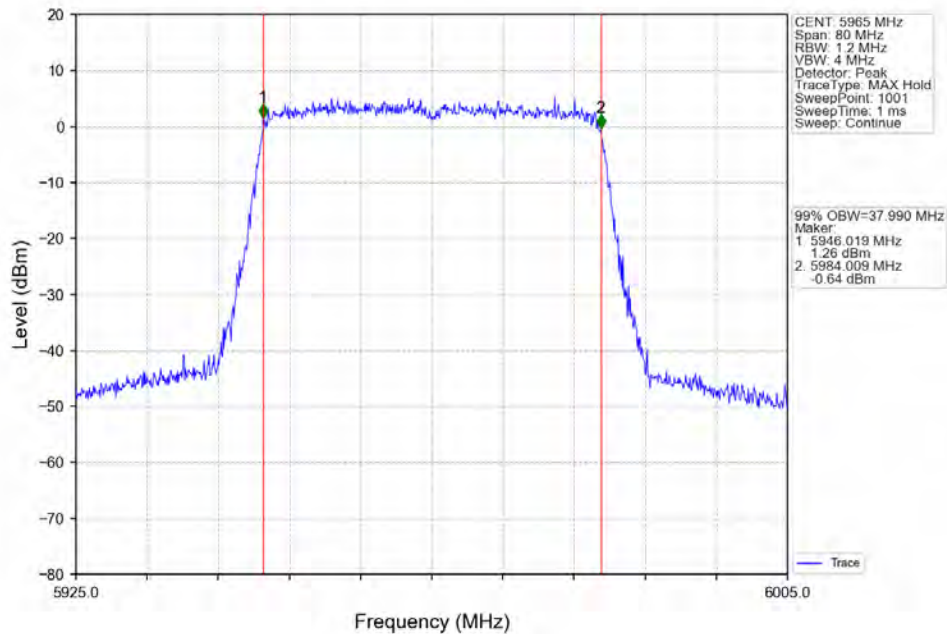
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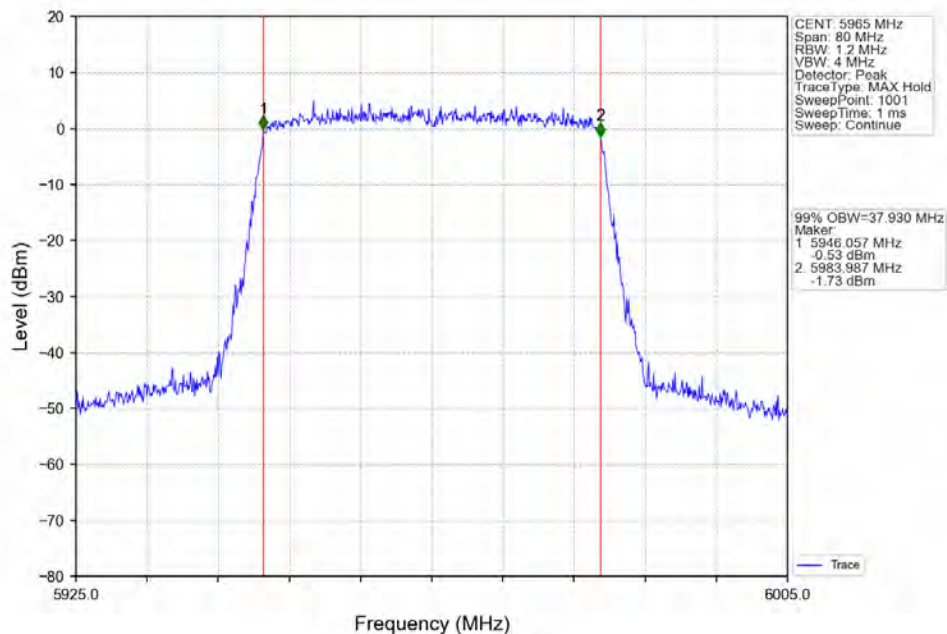
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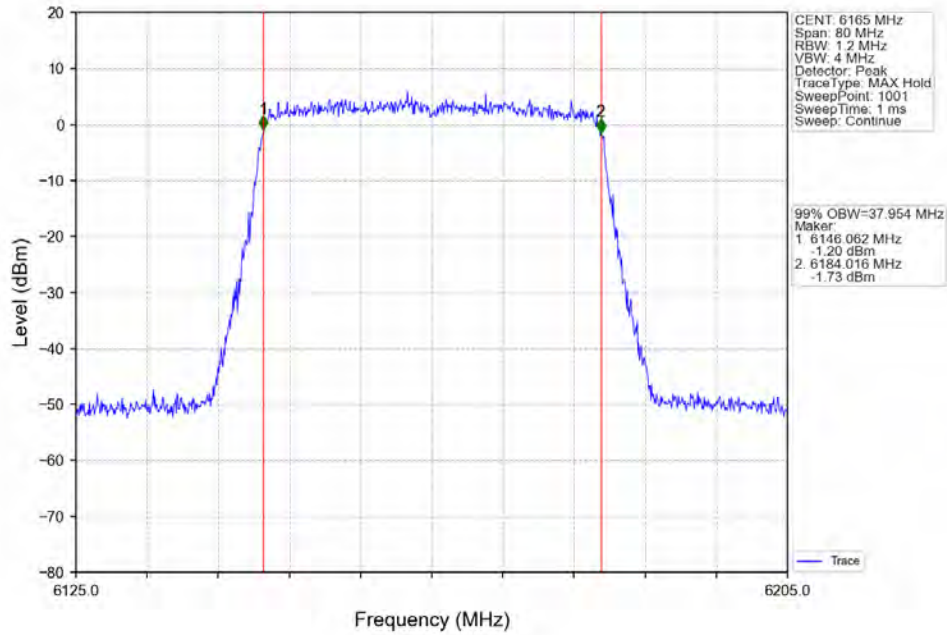
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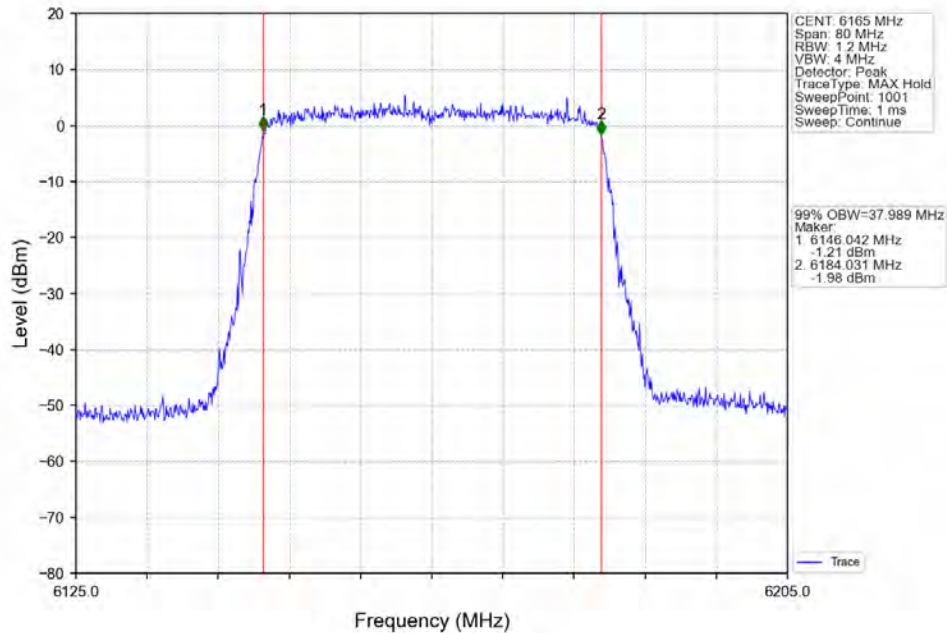
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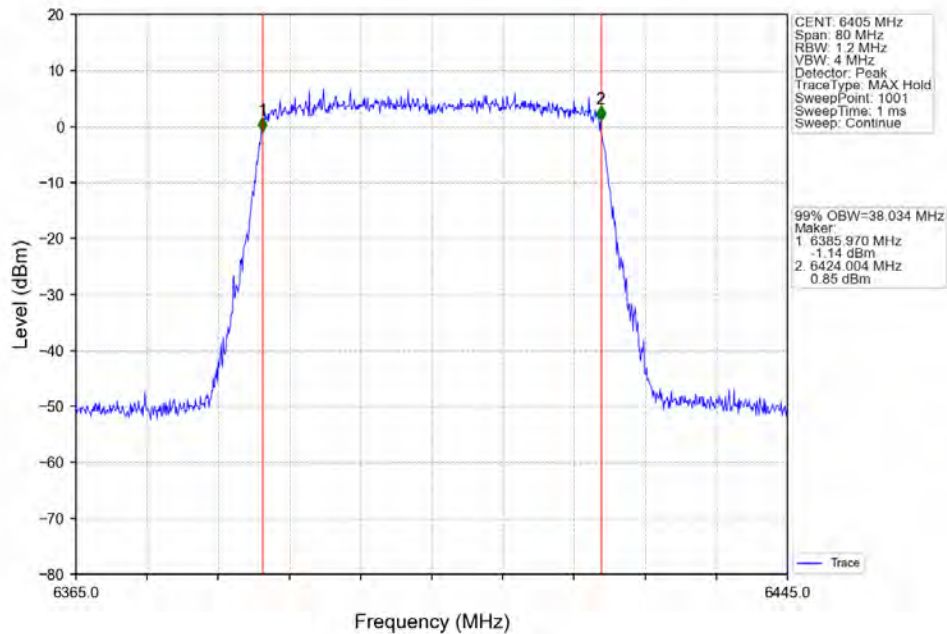
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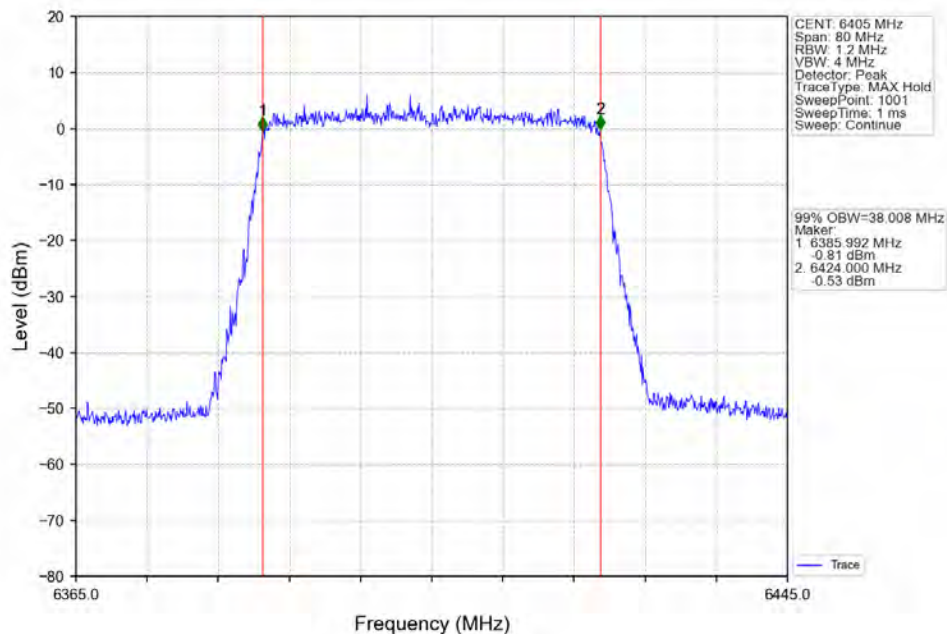
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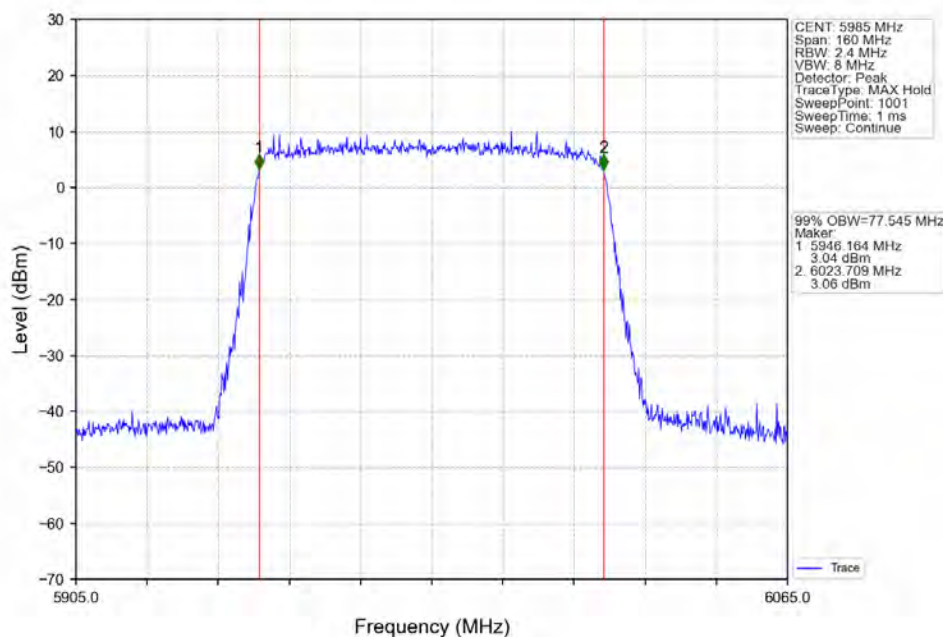
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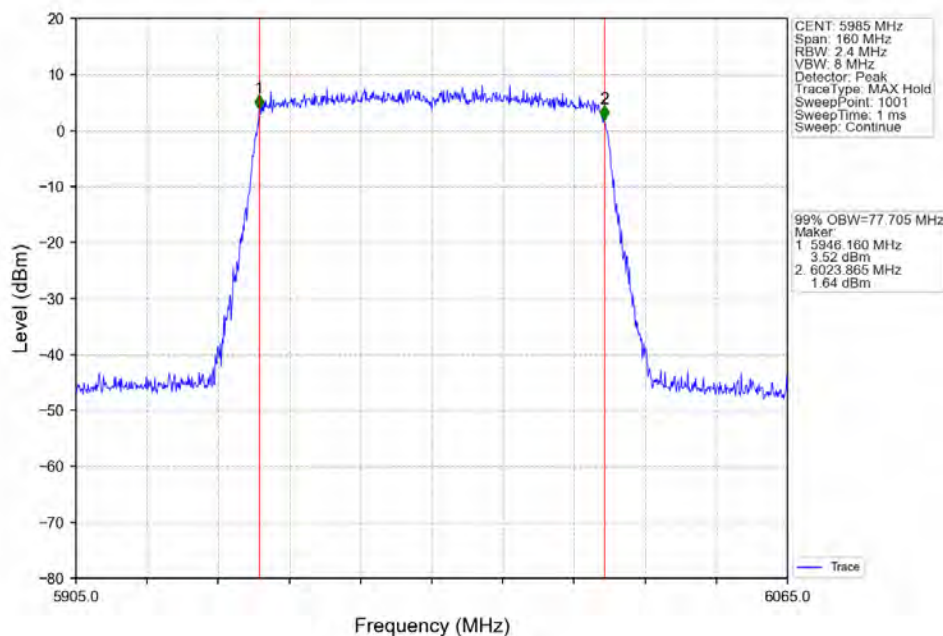
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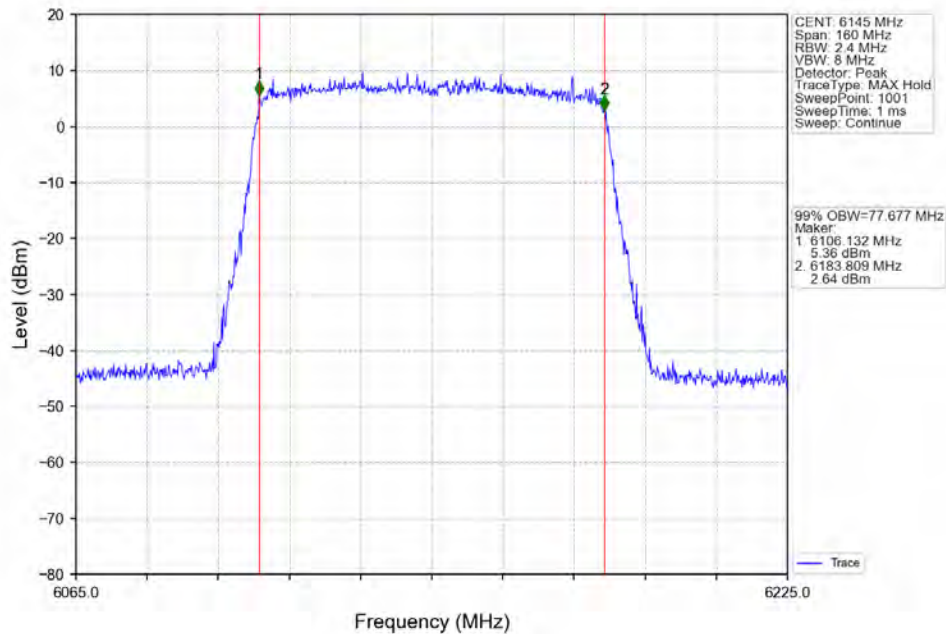
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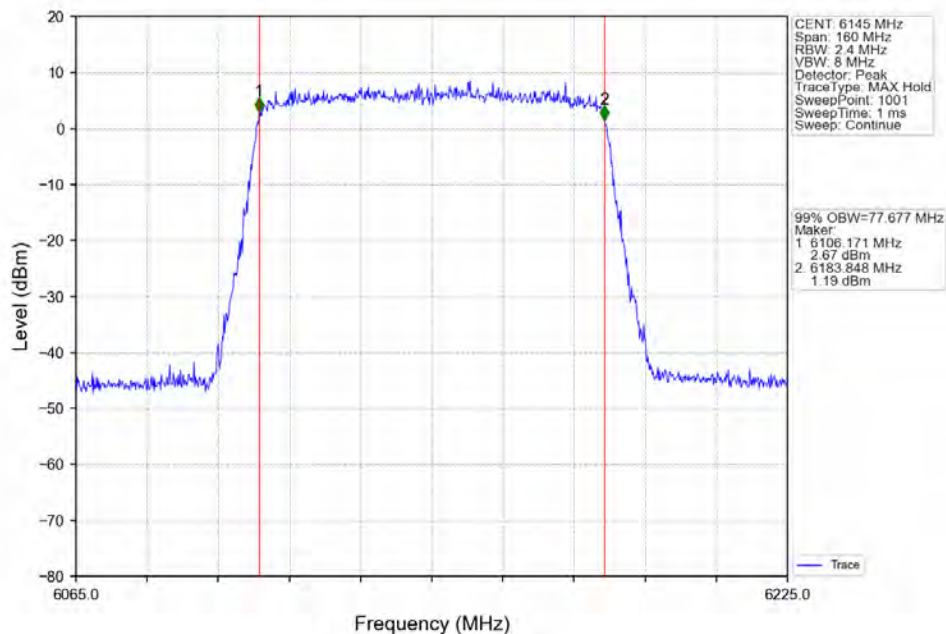
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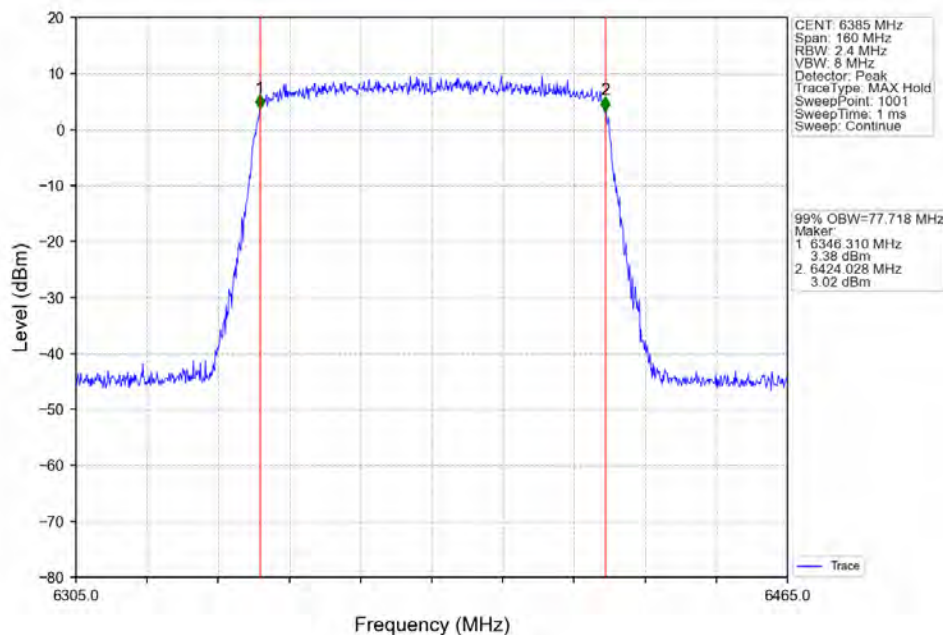
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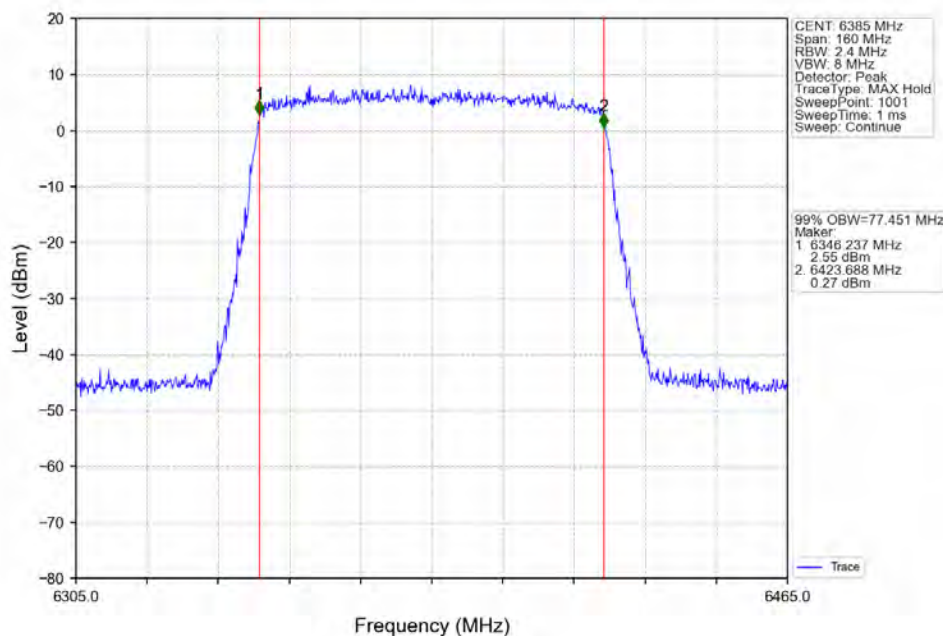
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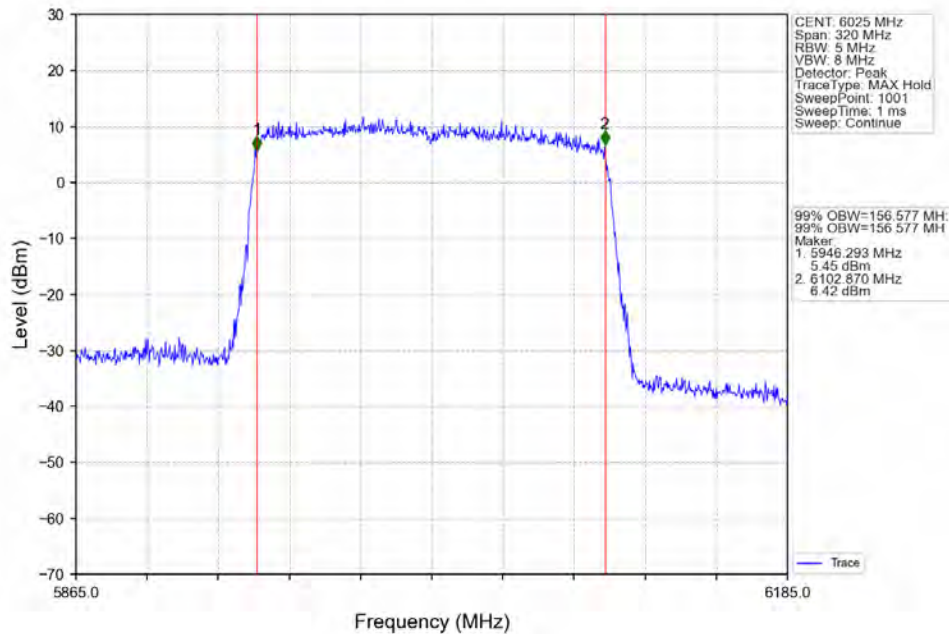
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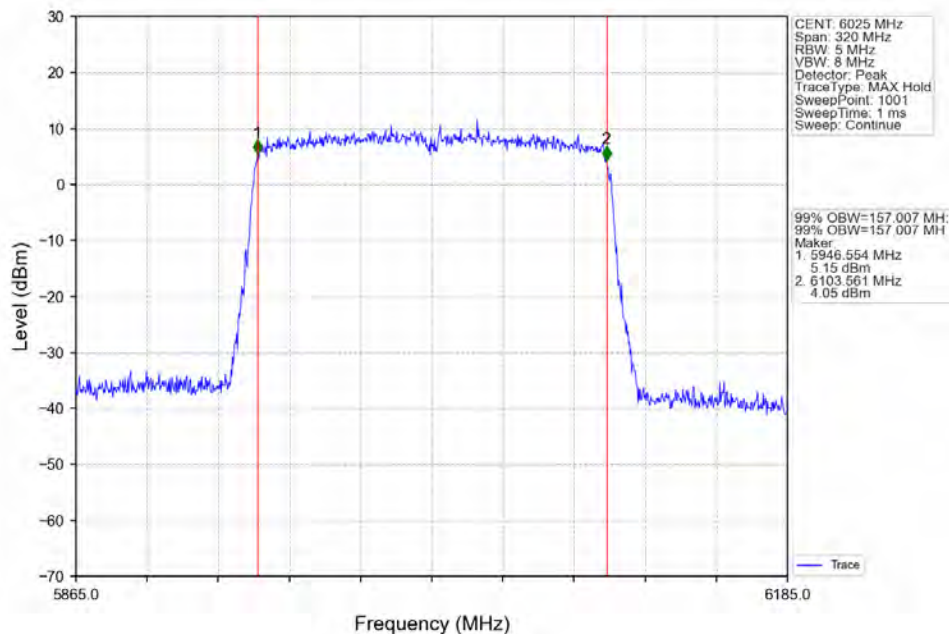
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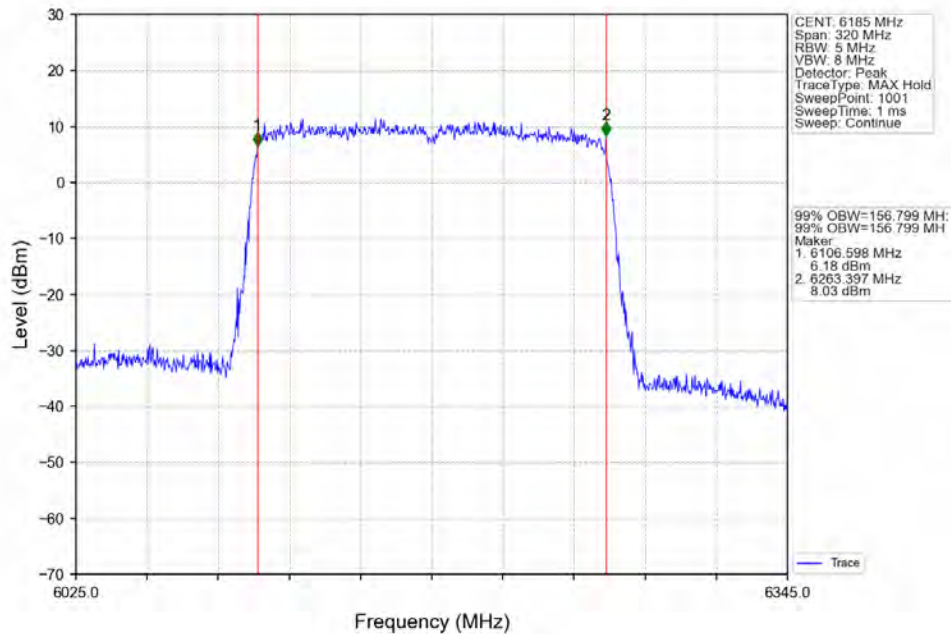
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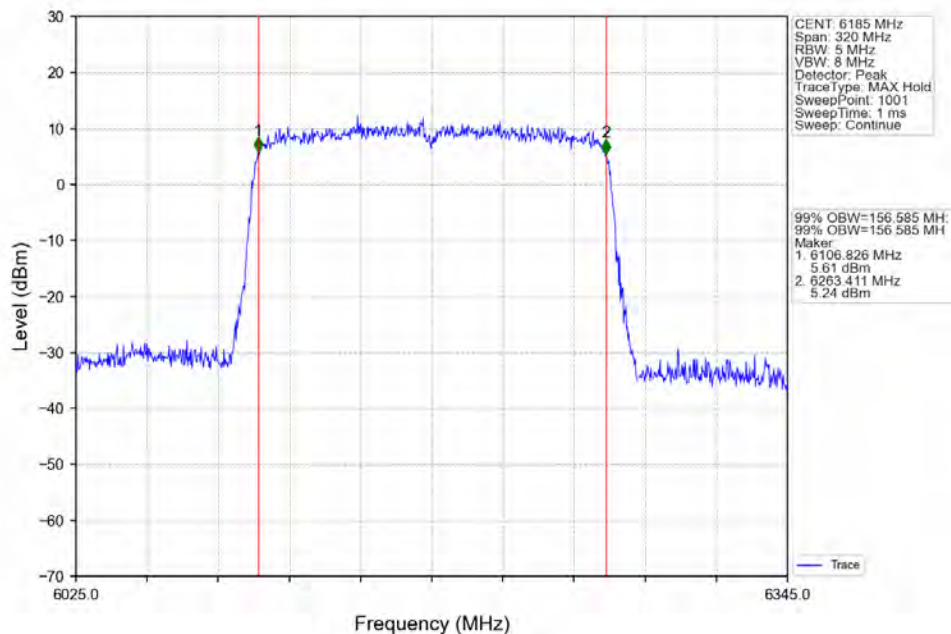
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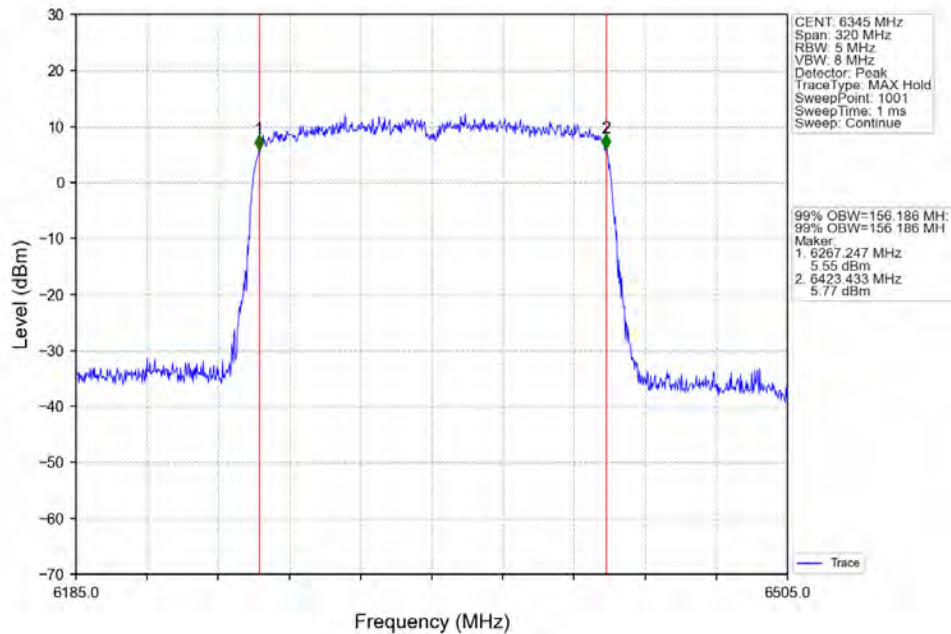
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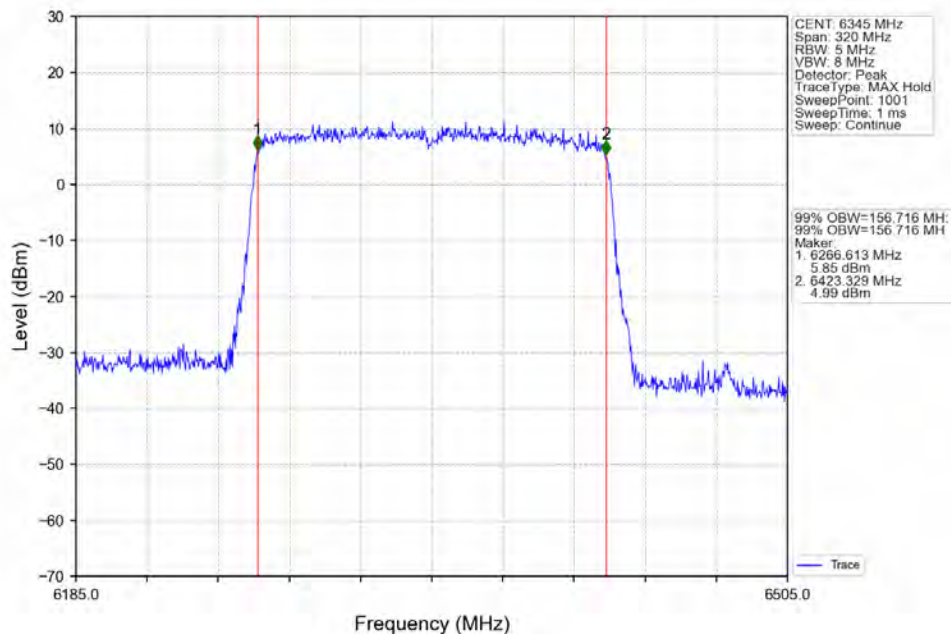
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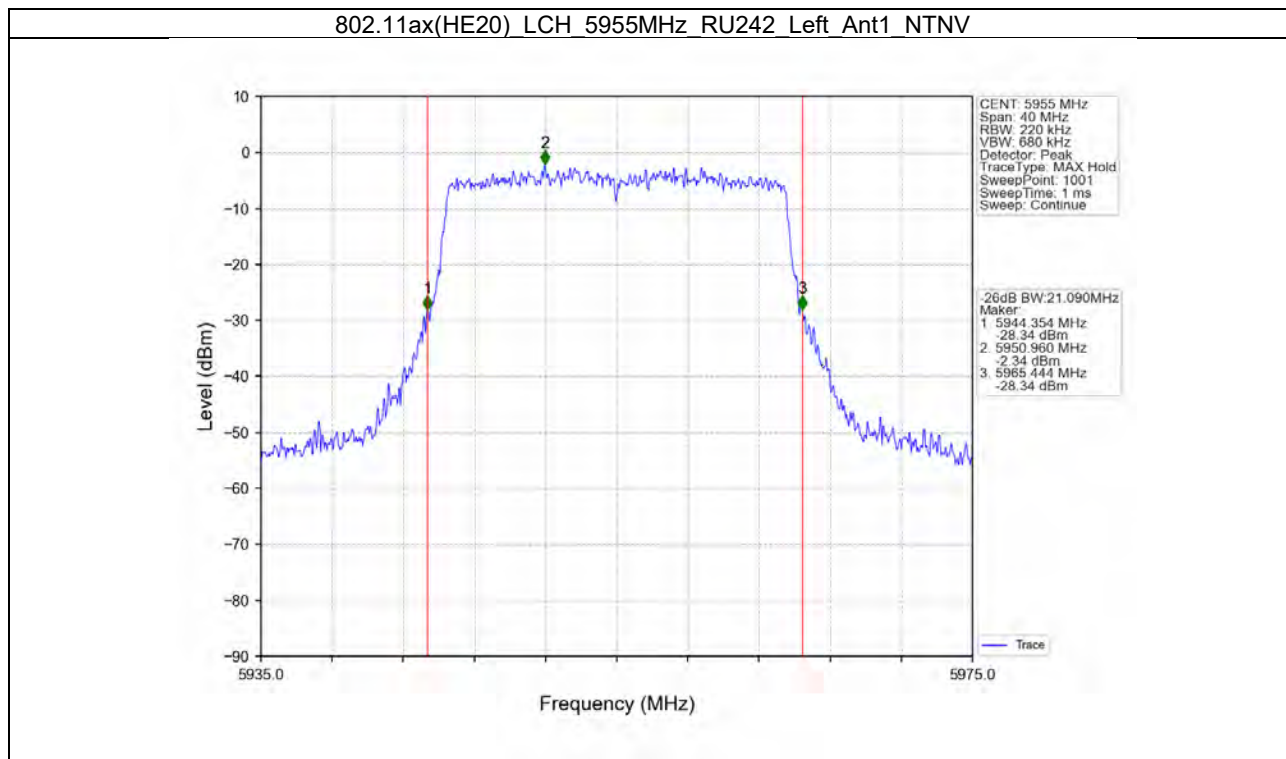
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2.2.2 26dB BW



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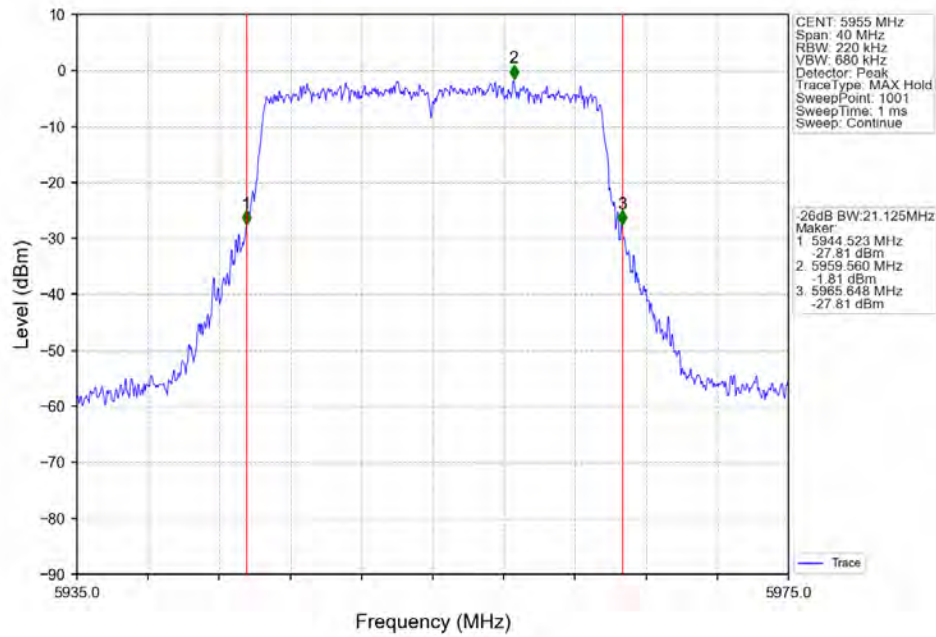
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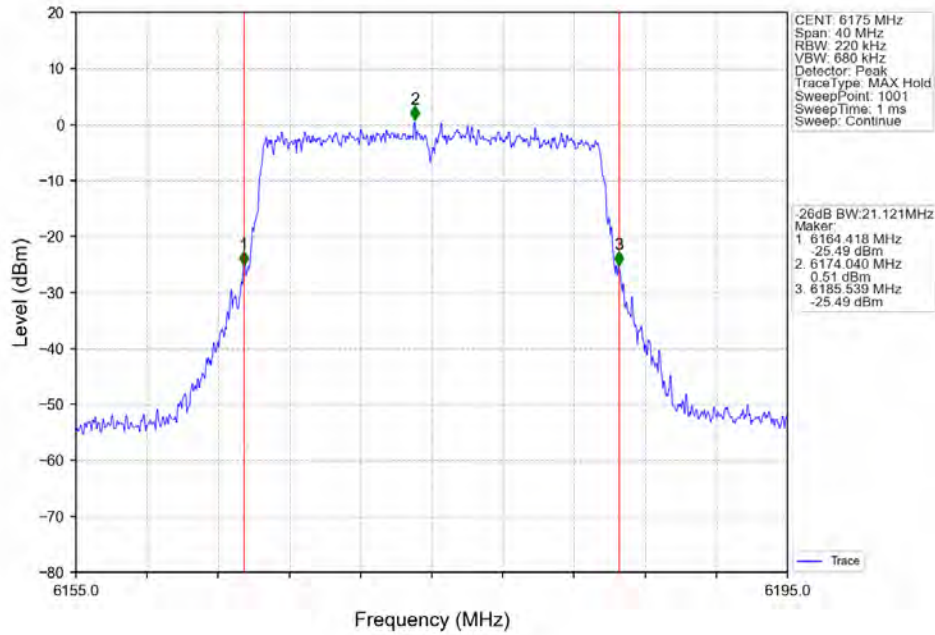
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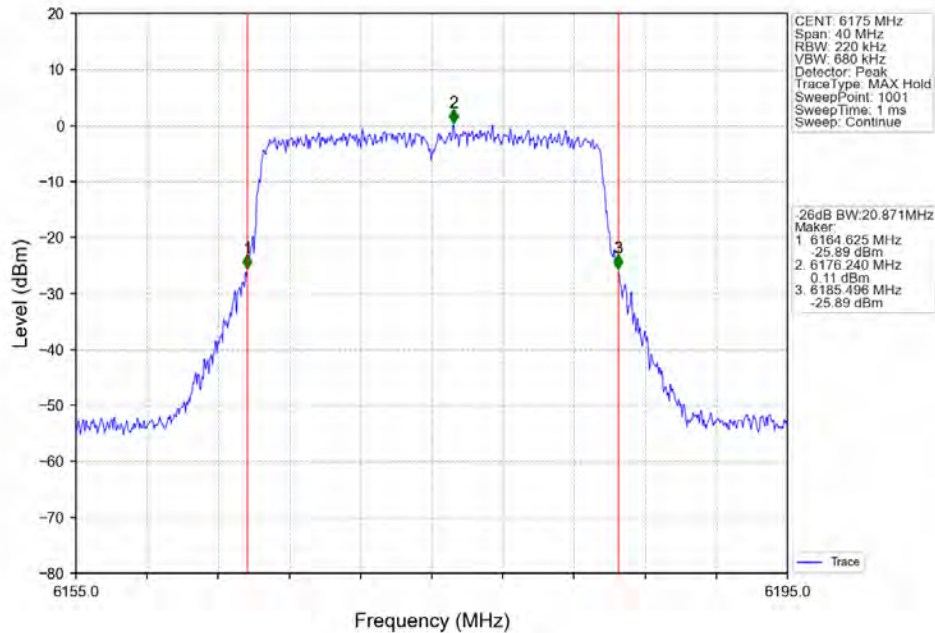
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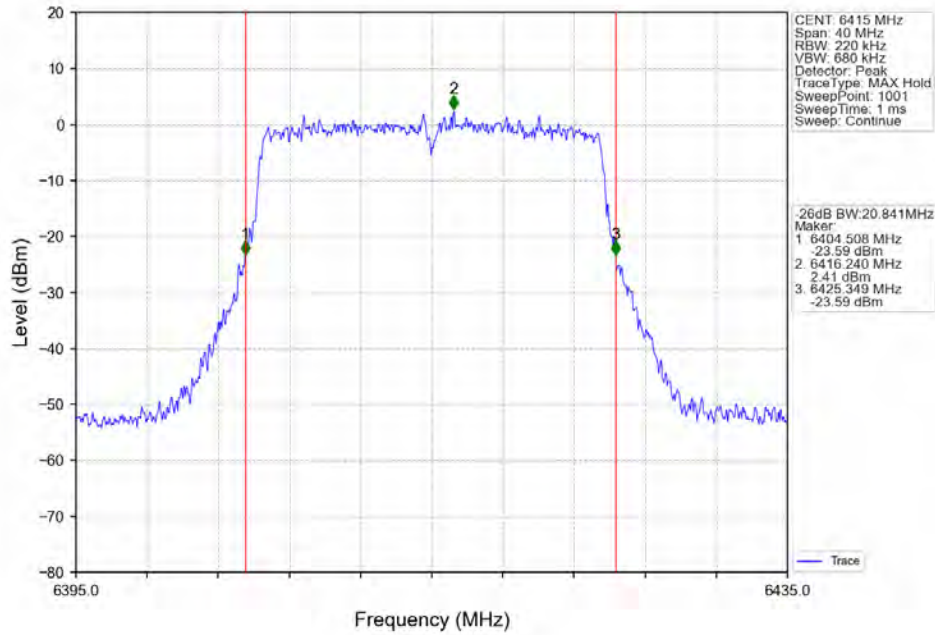
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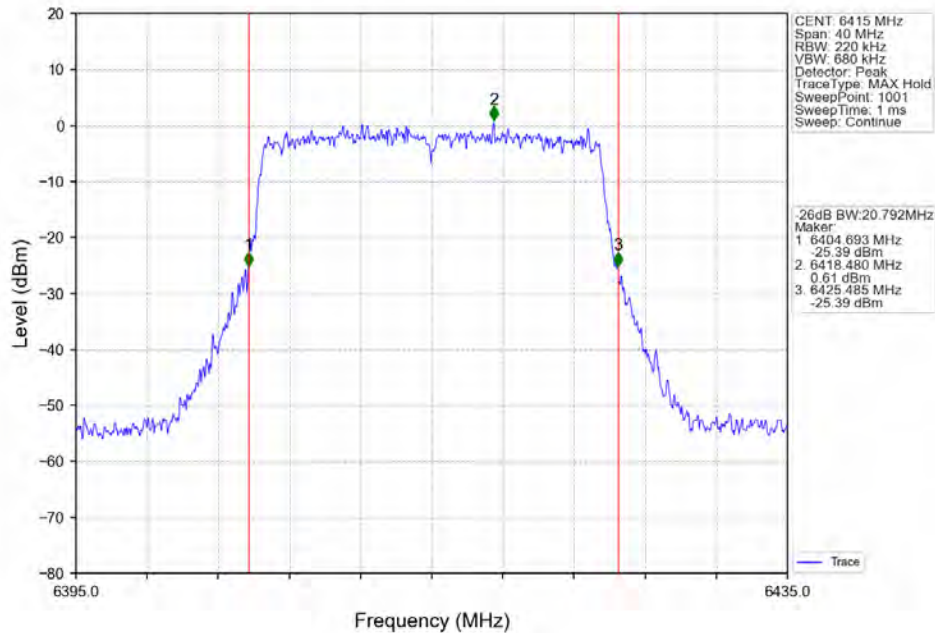
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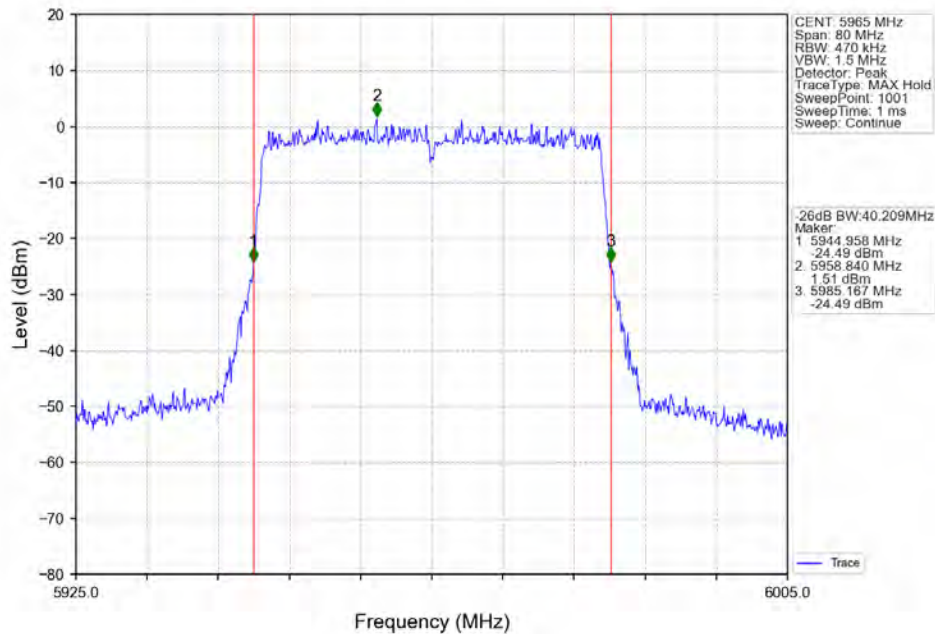
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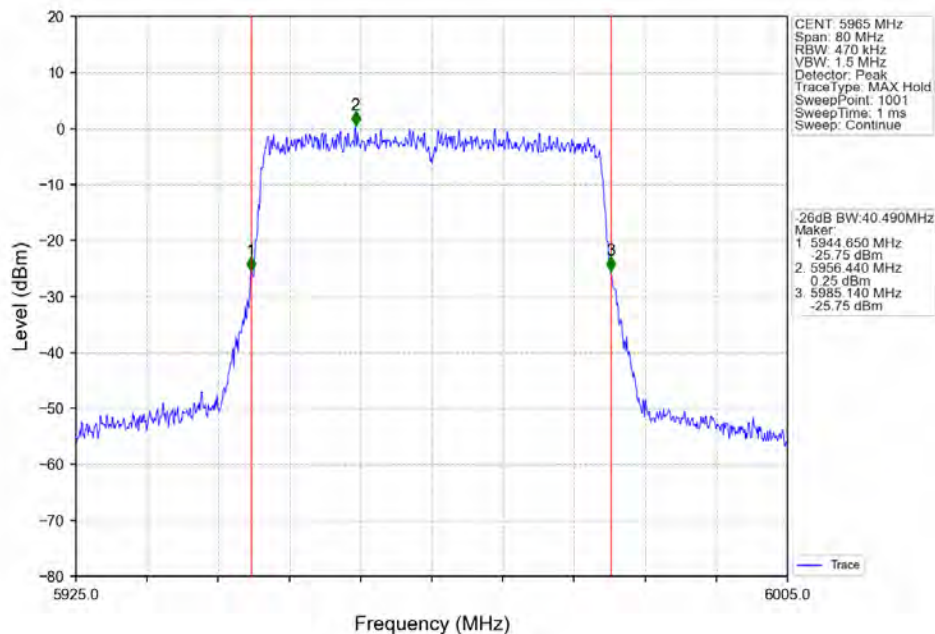
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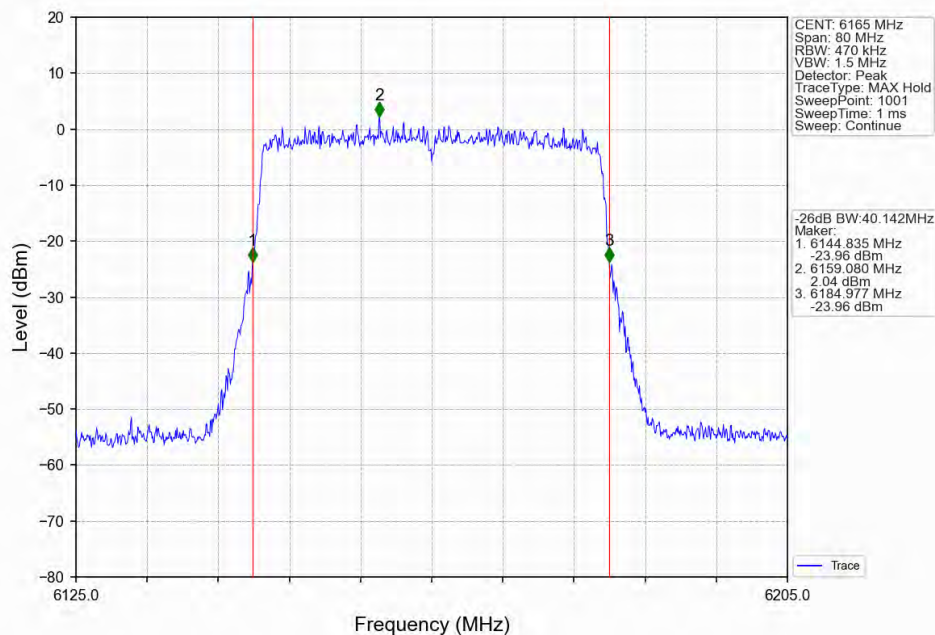
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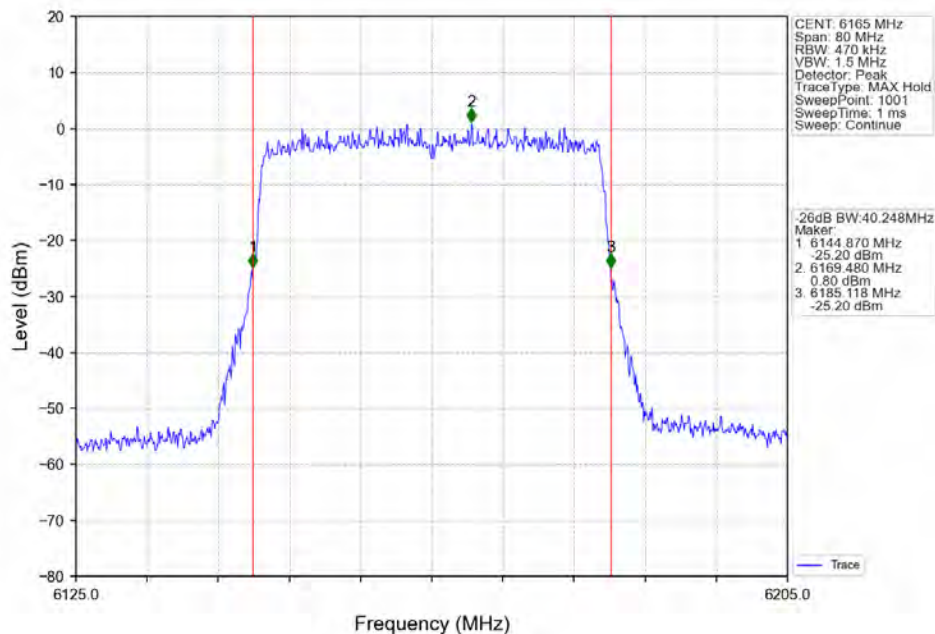
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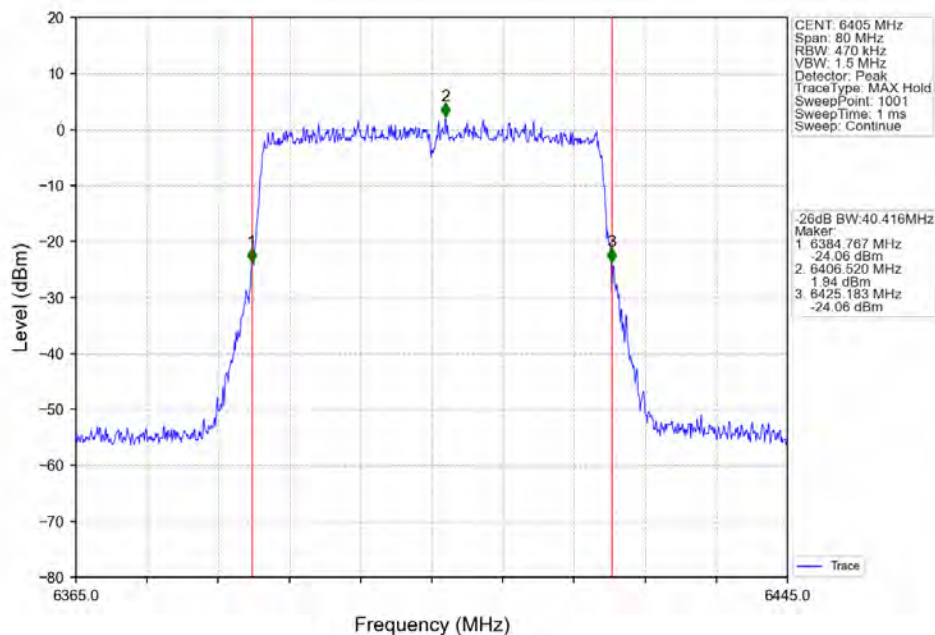
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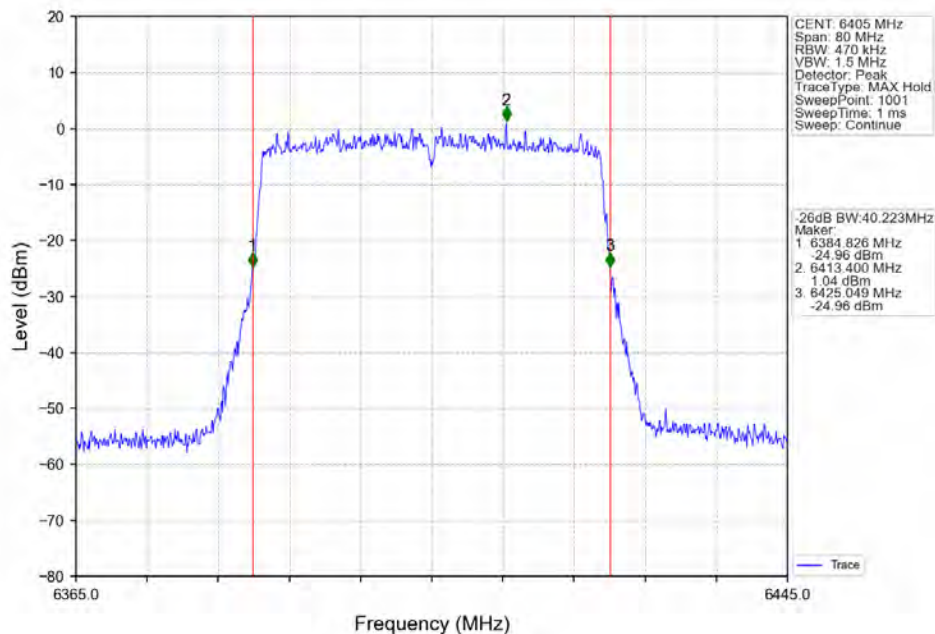
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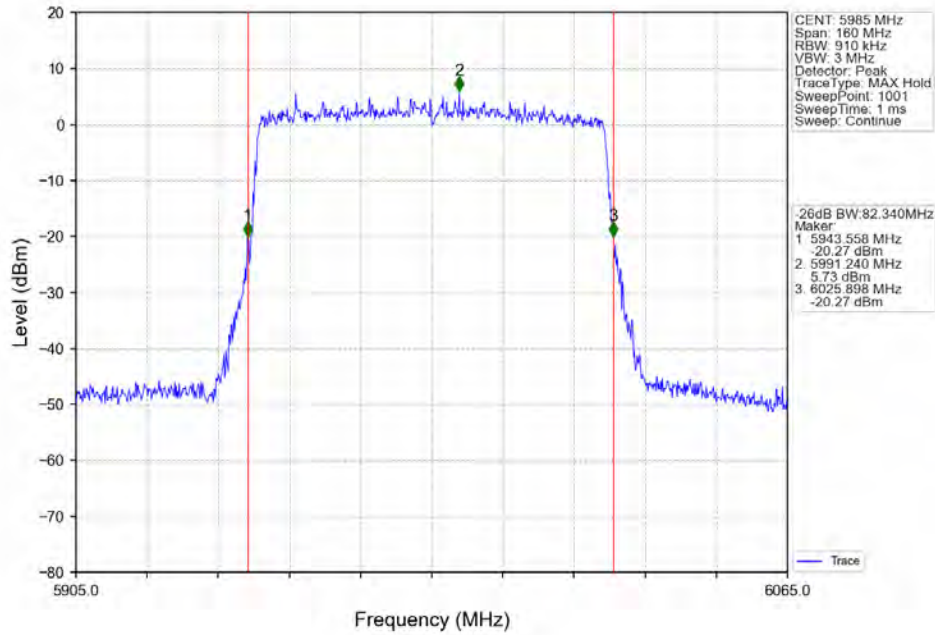
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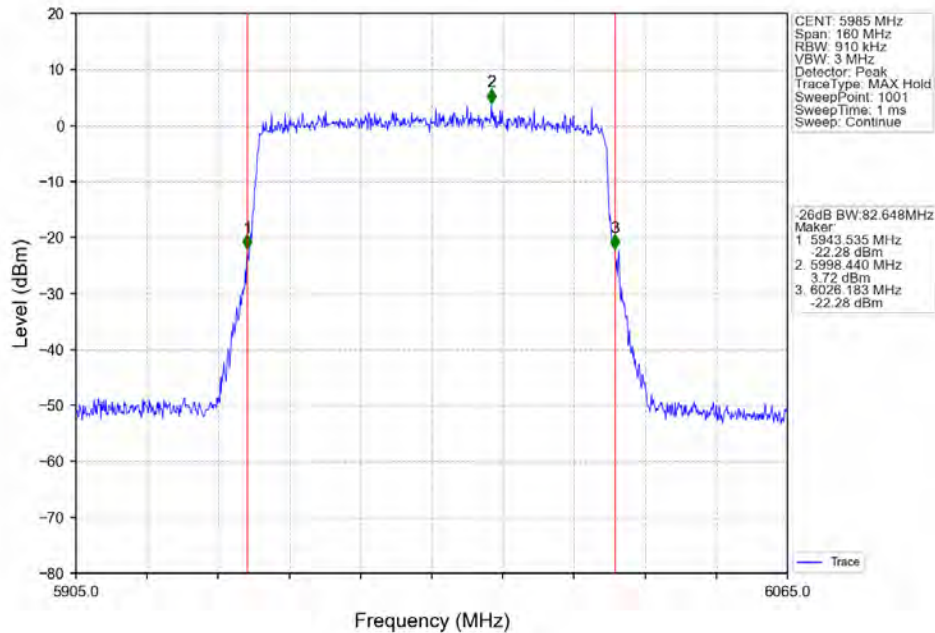
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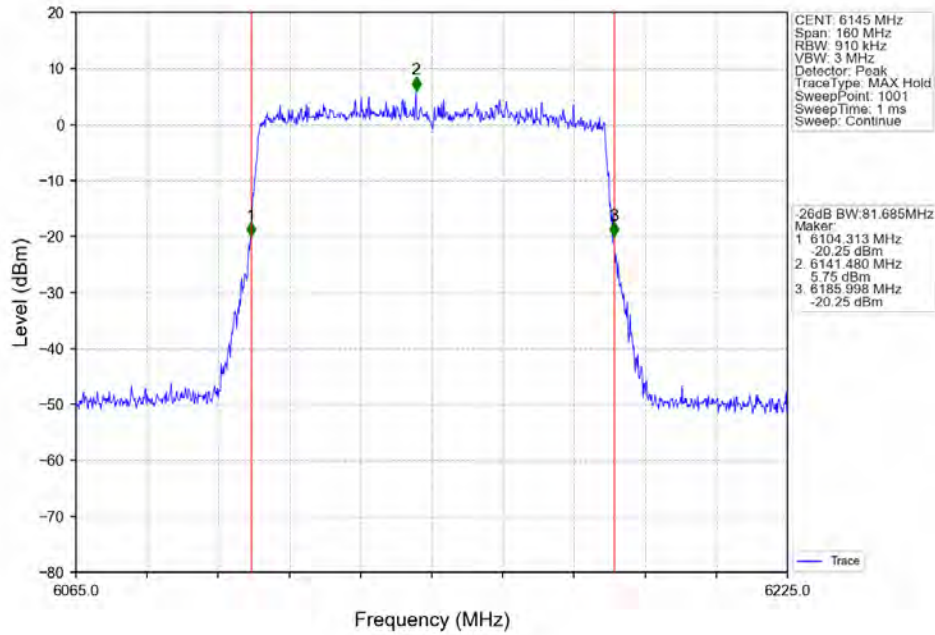
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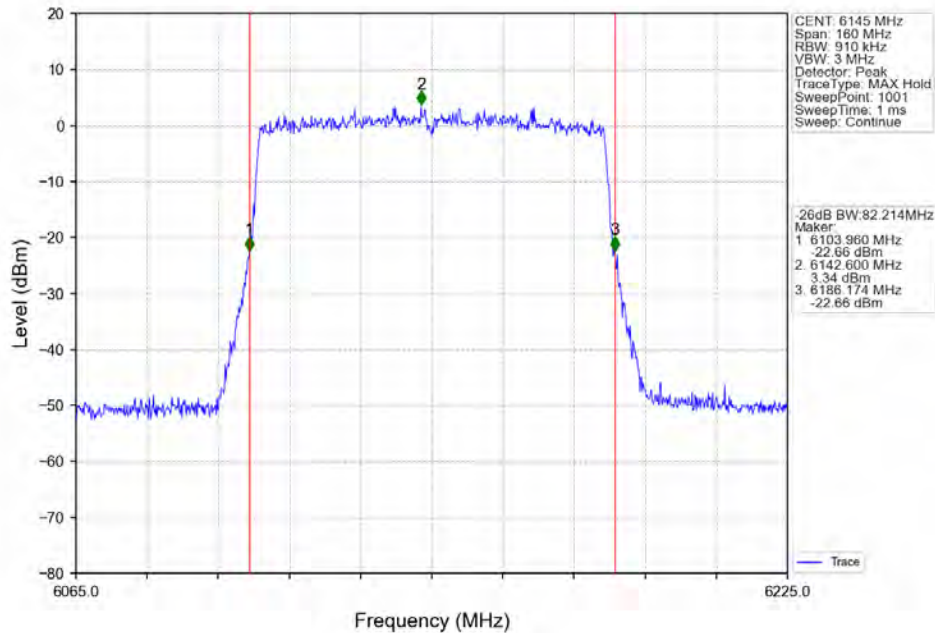
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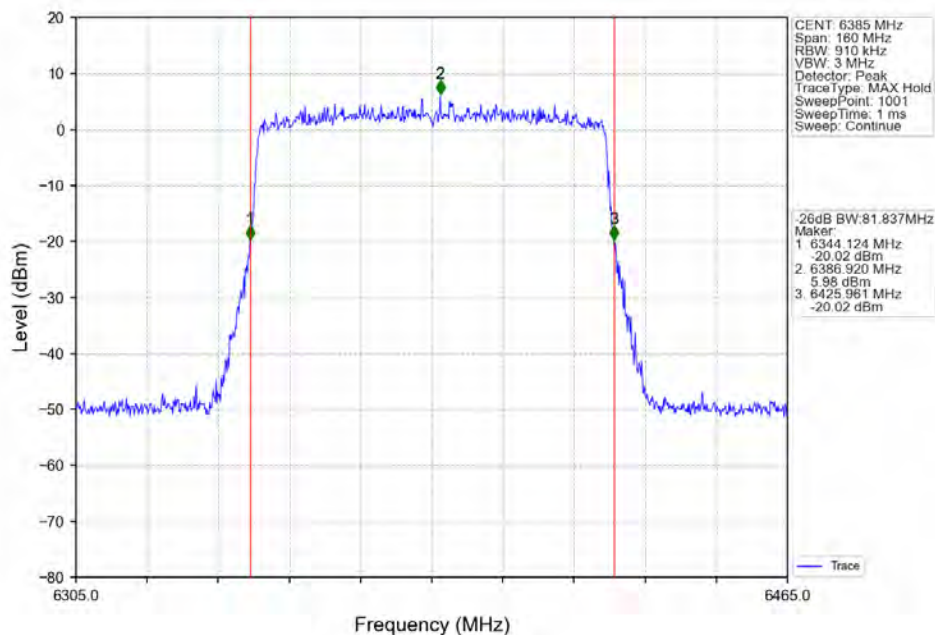
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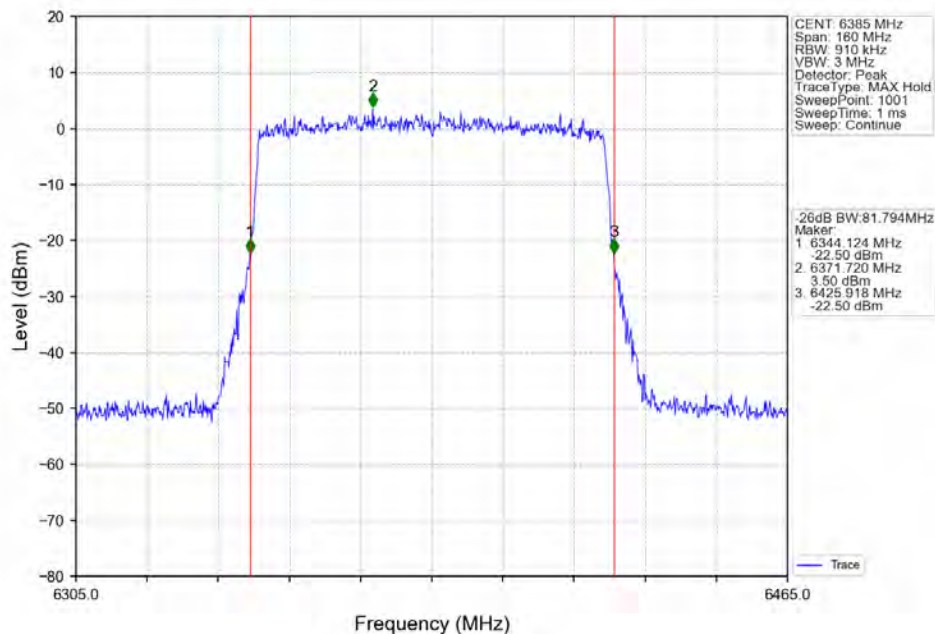
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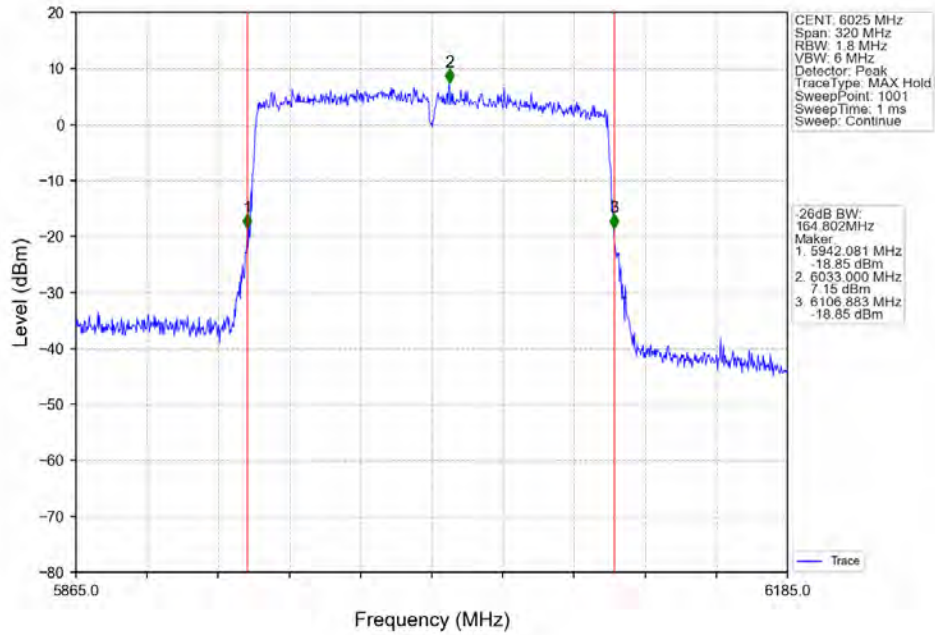
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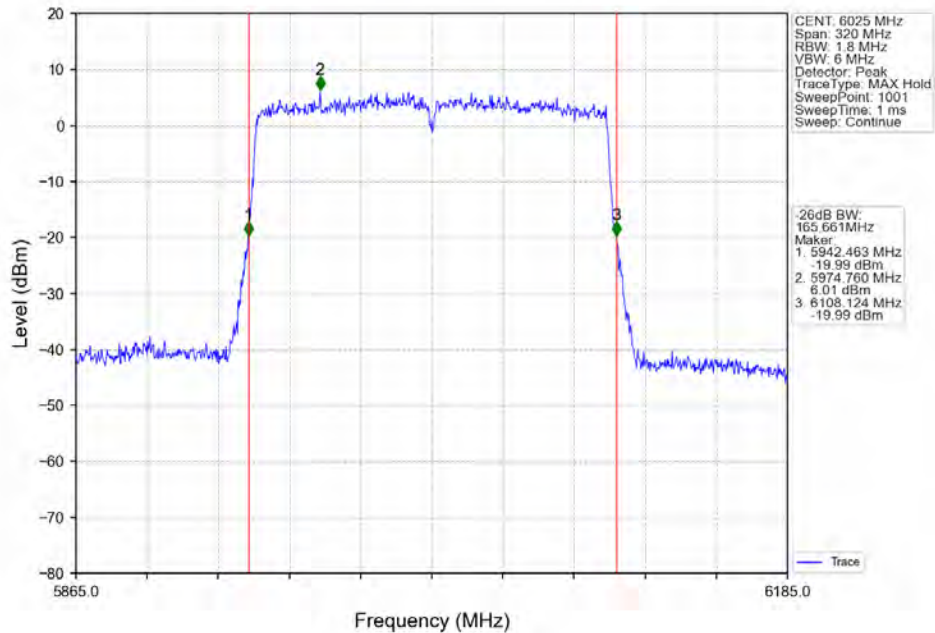
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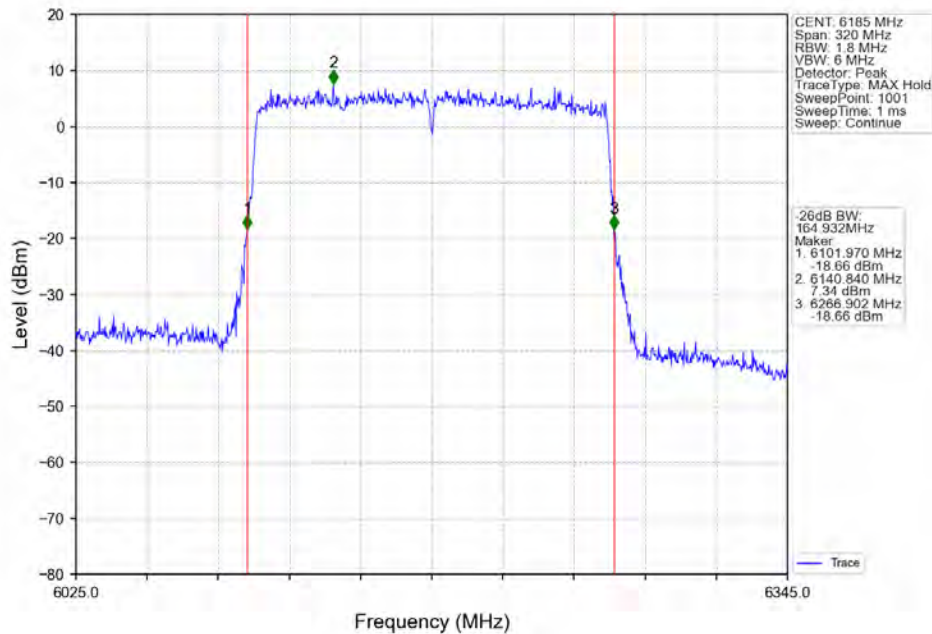
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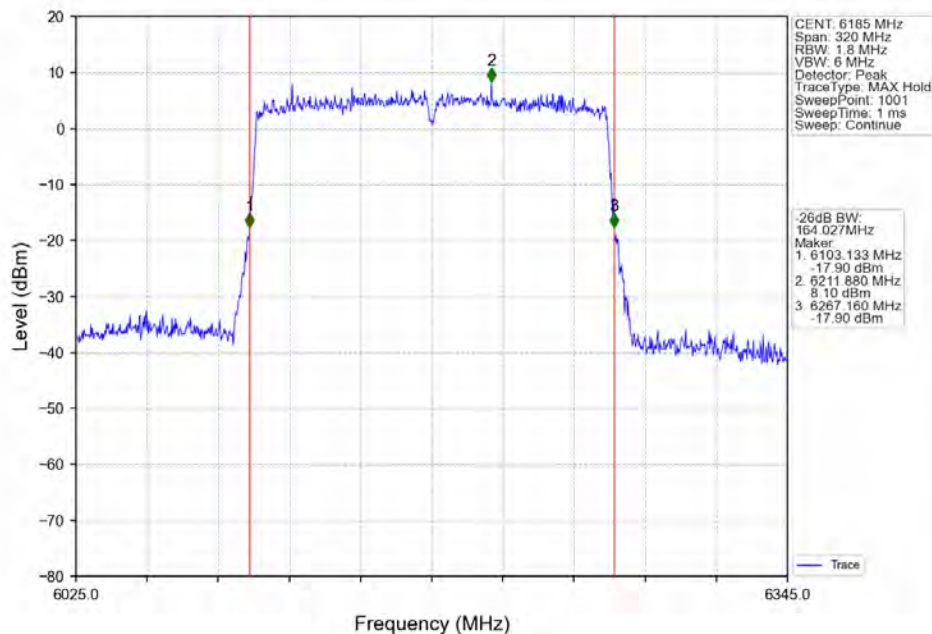
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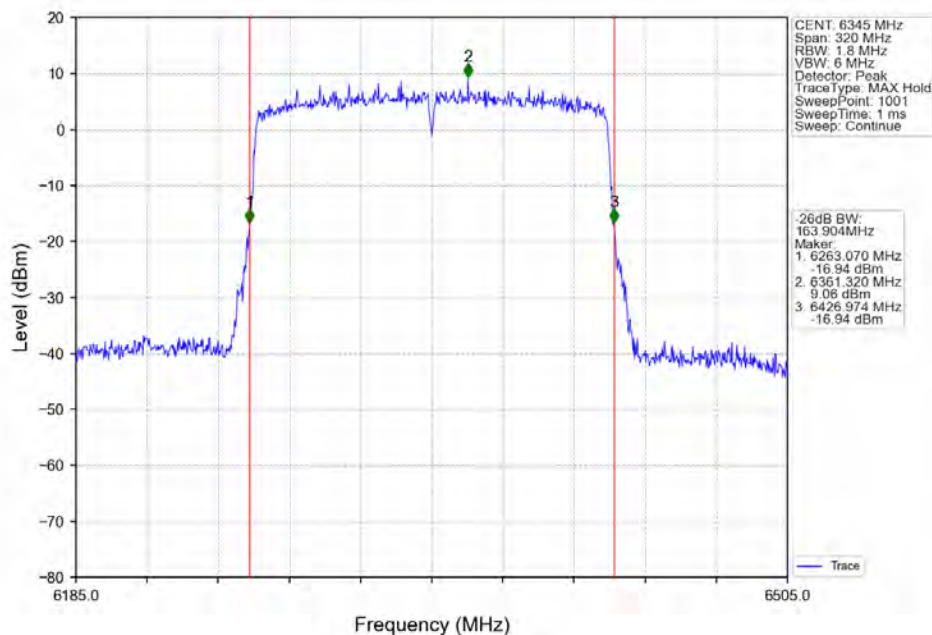
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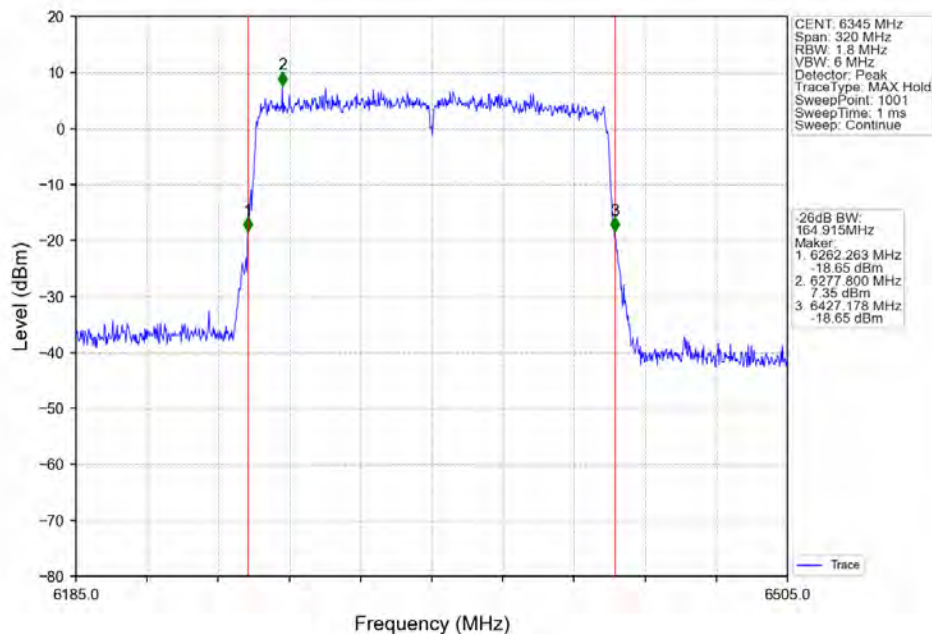
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802.11ax(HE160)_HCH_6345MHz_2xRU996_Left_Ant2_NTNV



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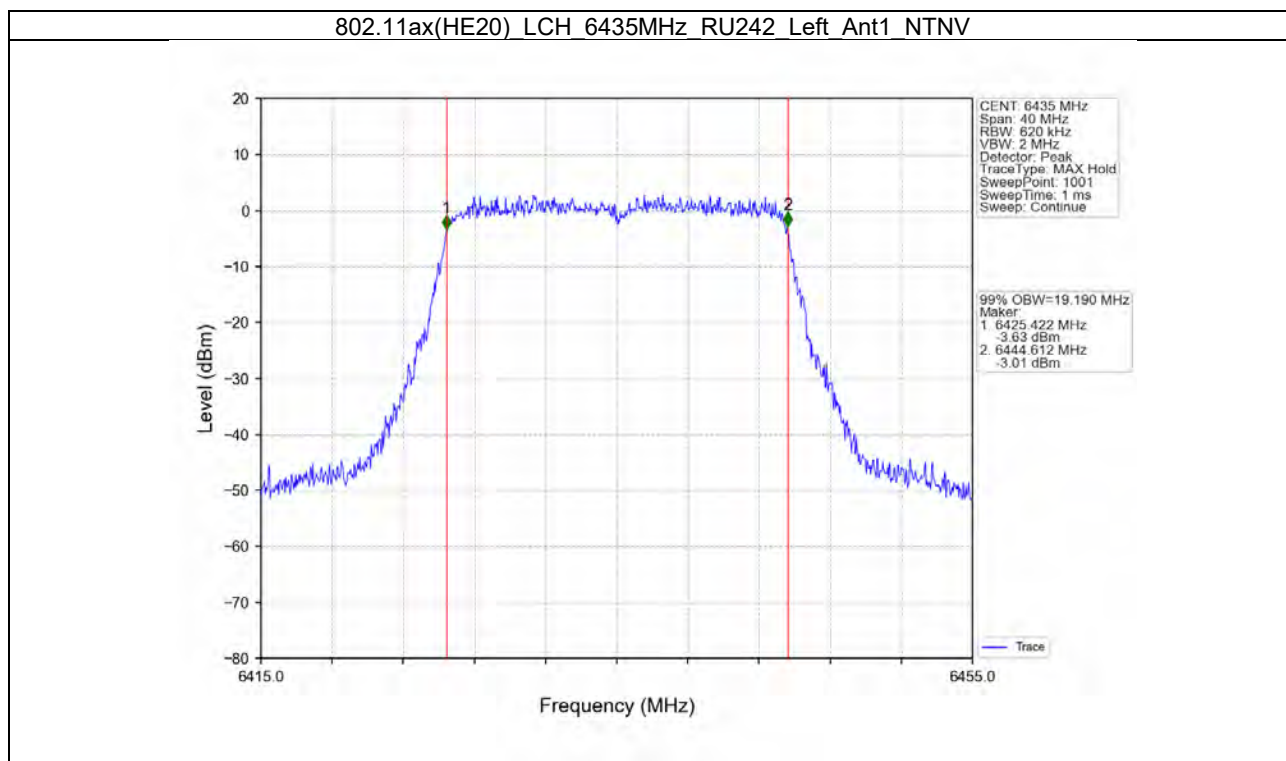
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2.2.3 OBW



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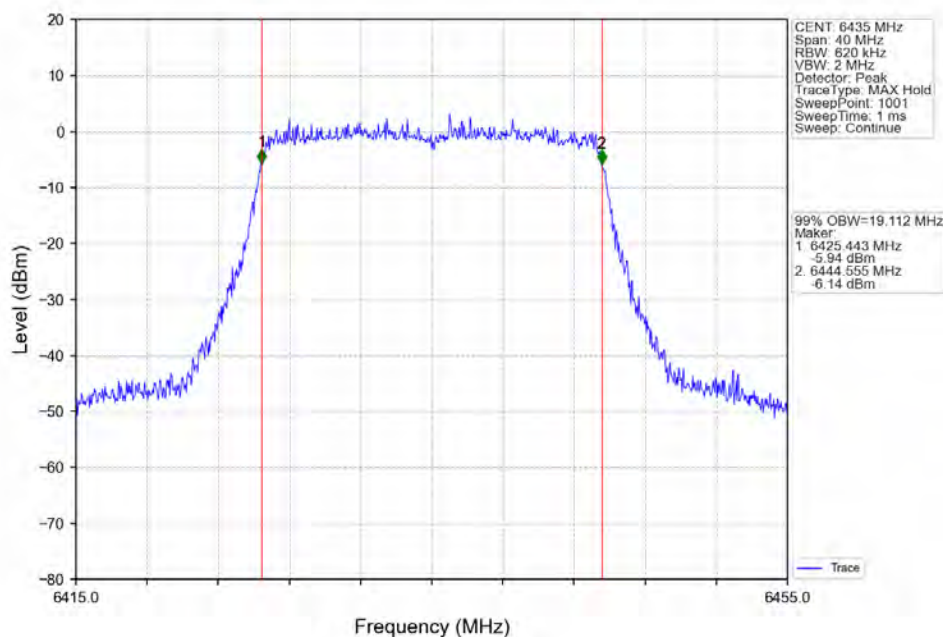
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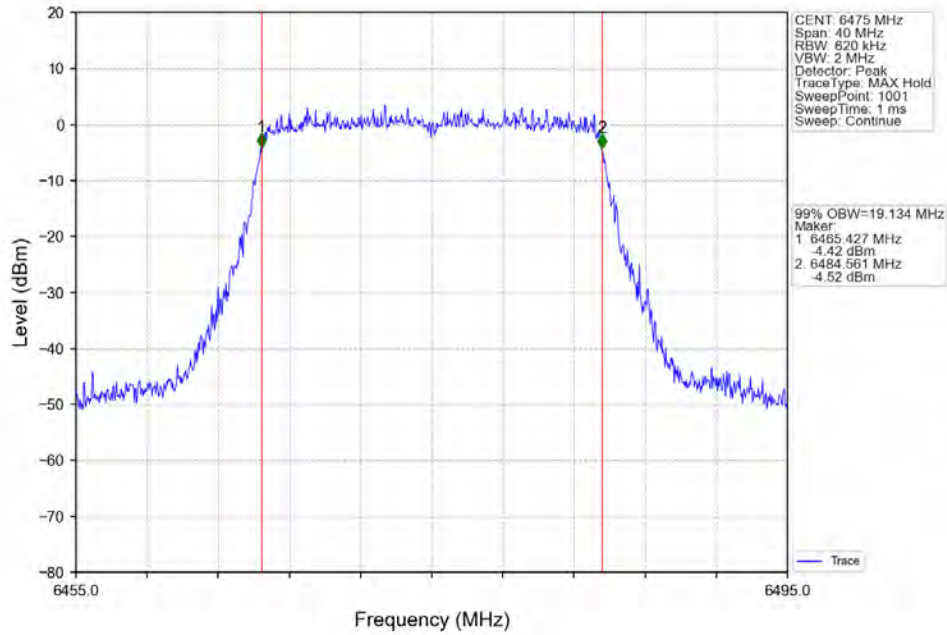
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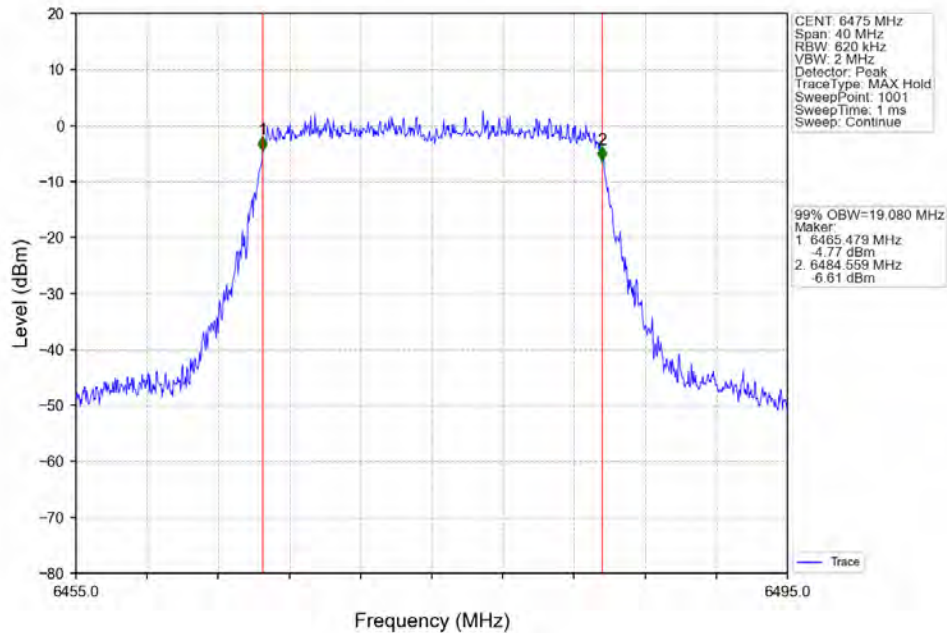
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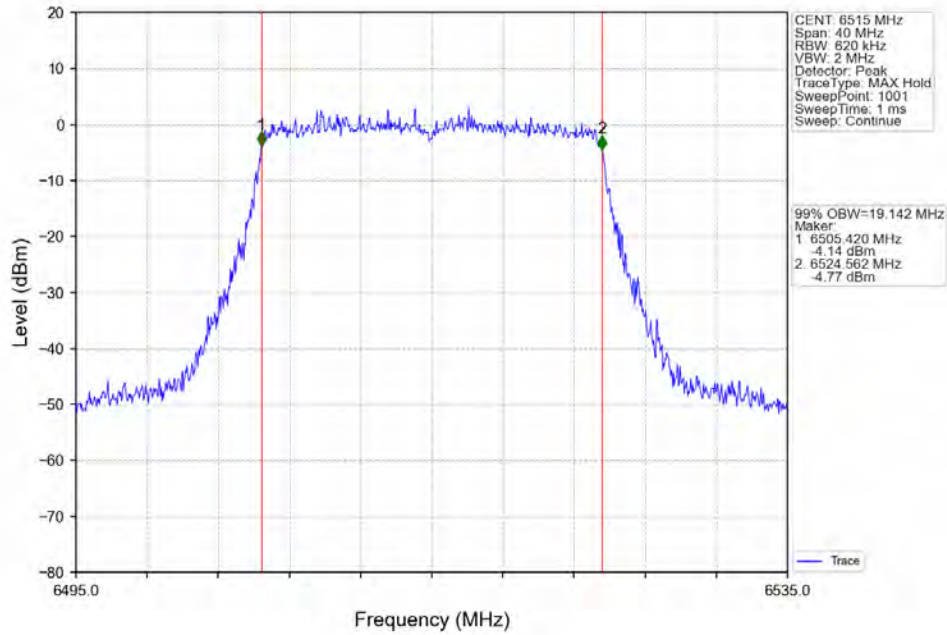
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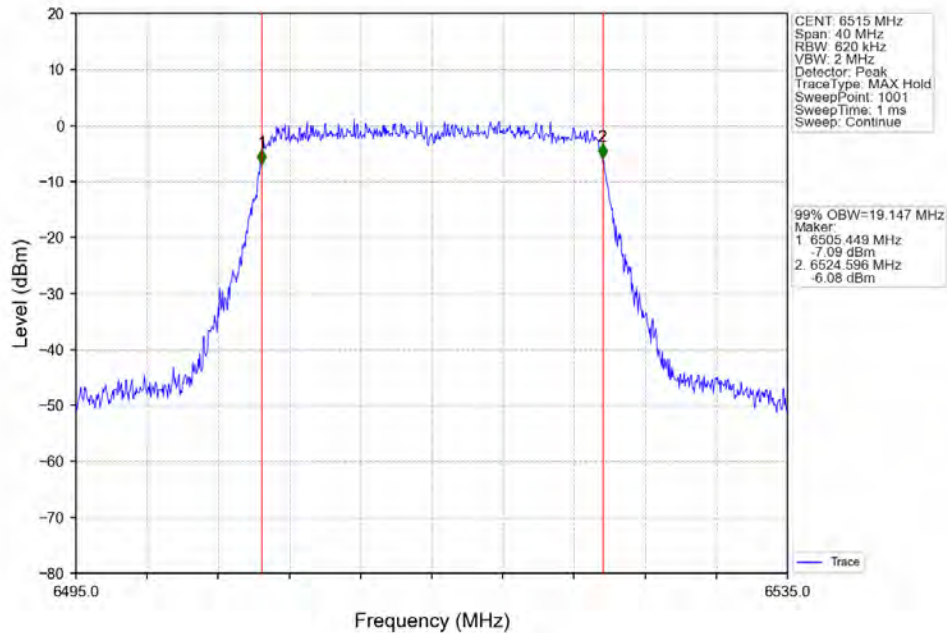
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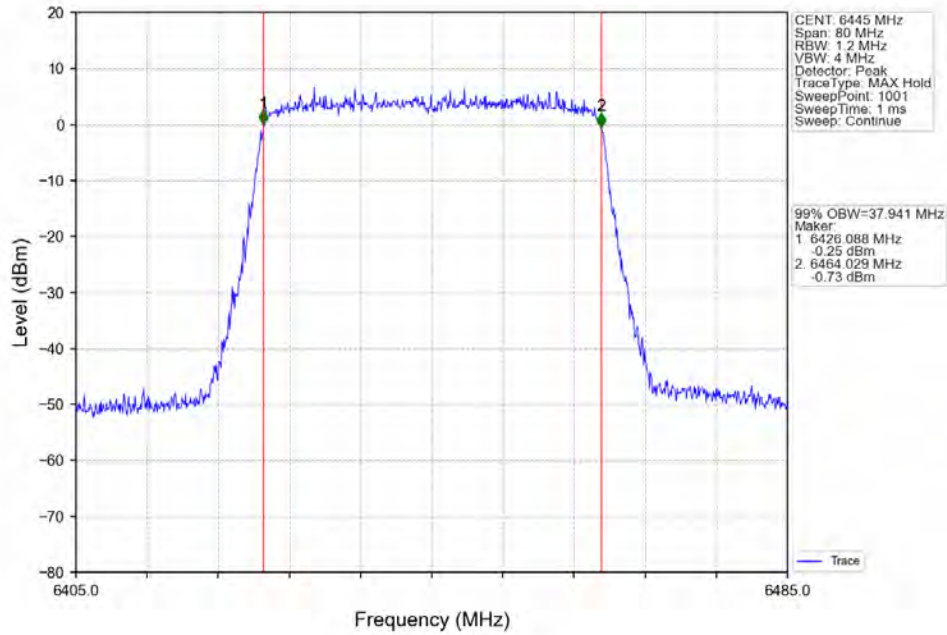
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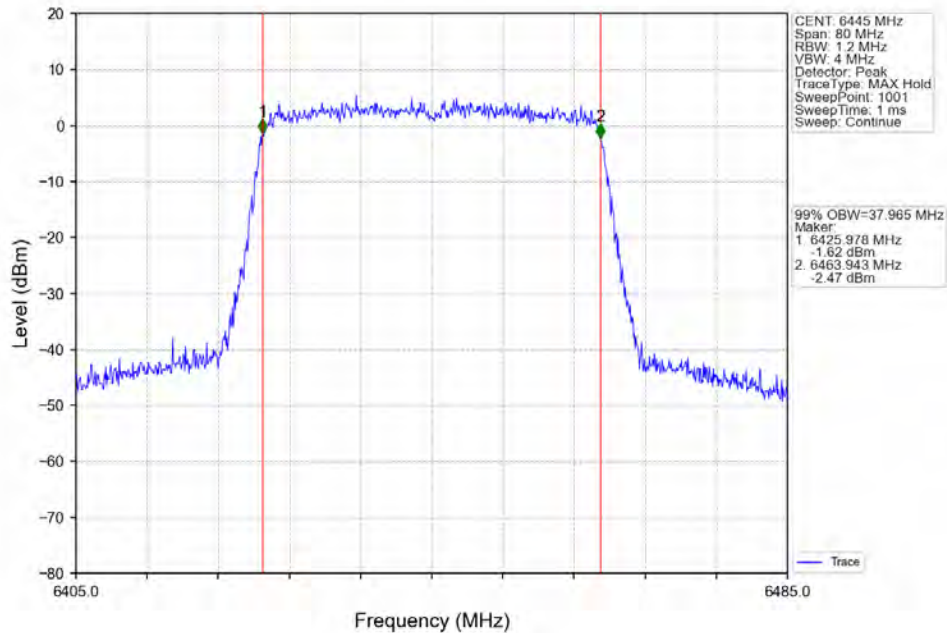
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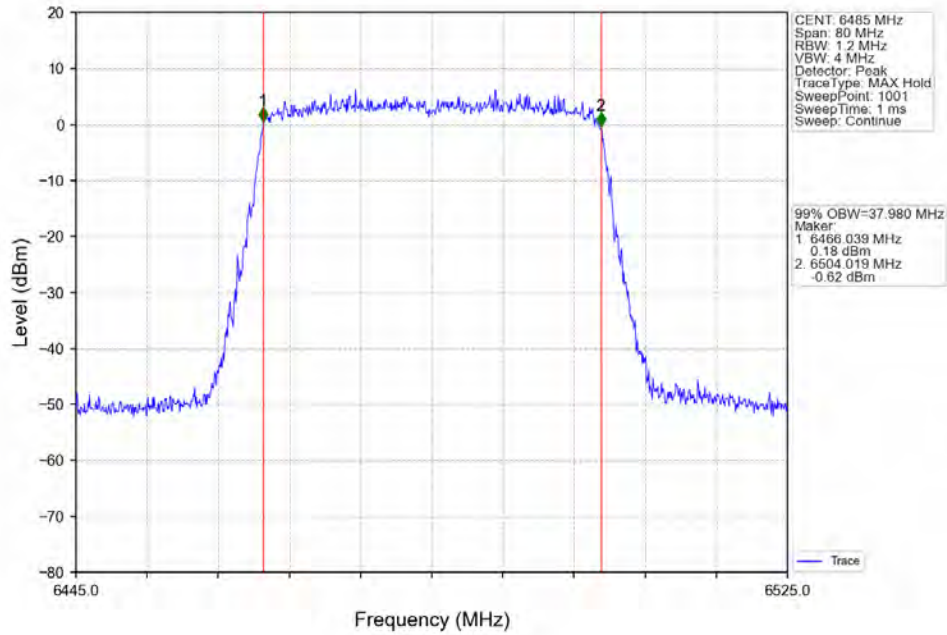
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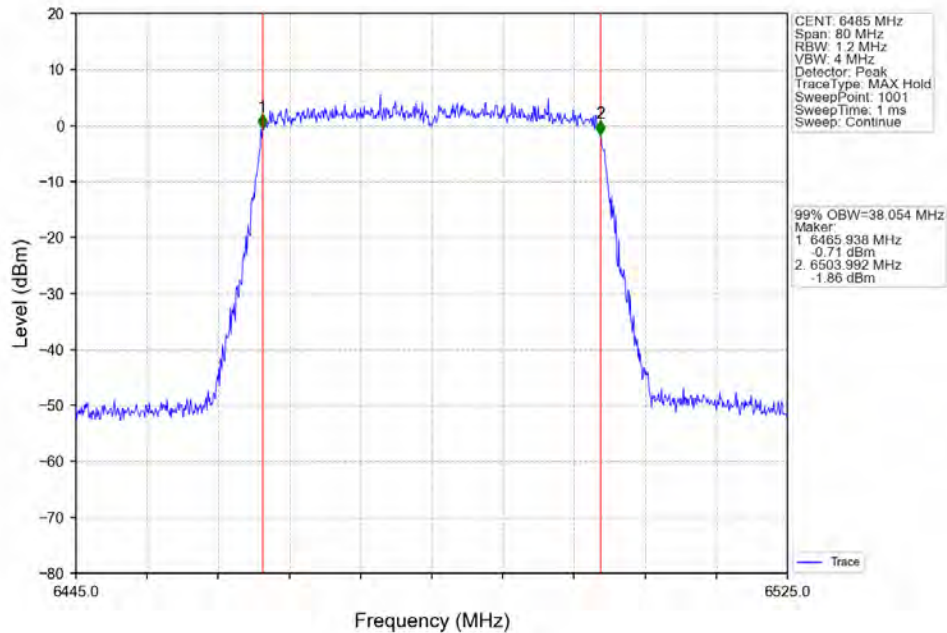
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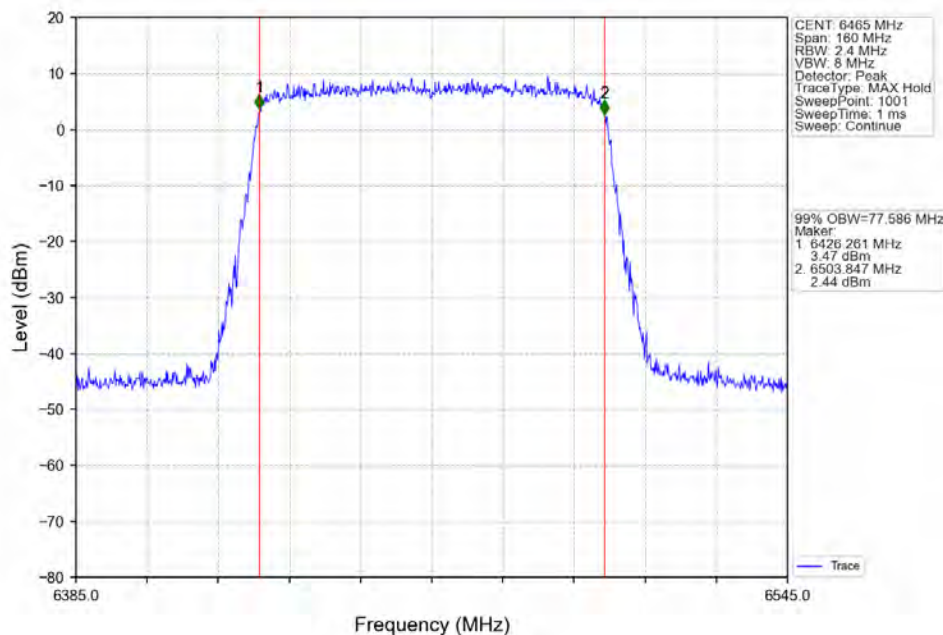
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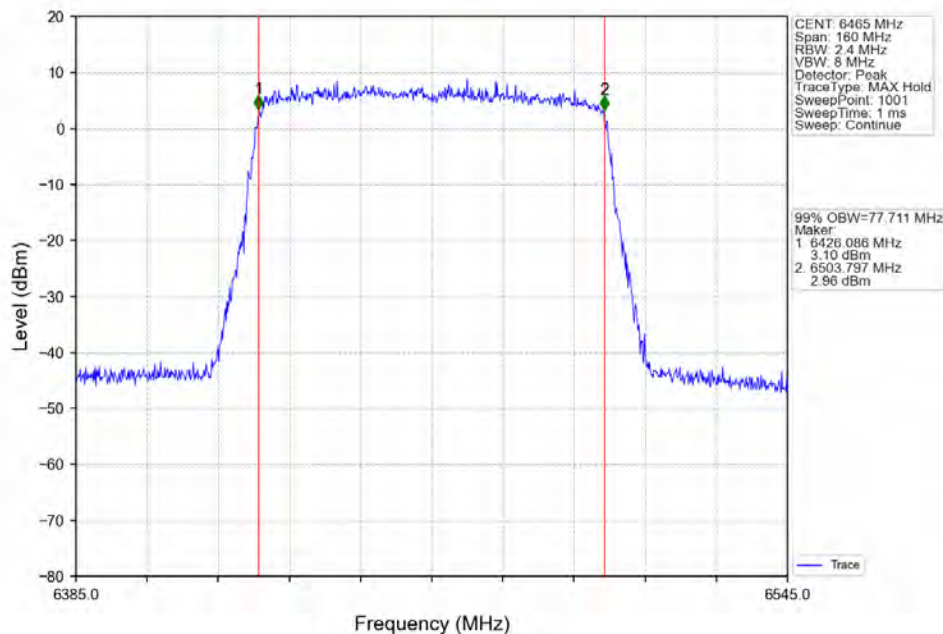
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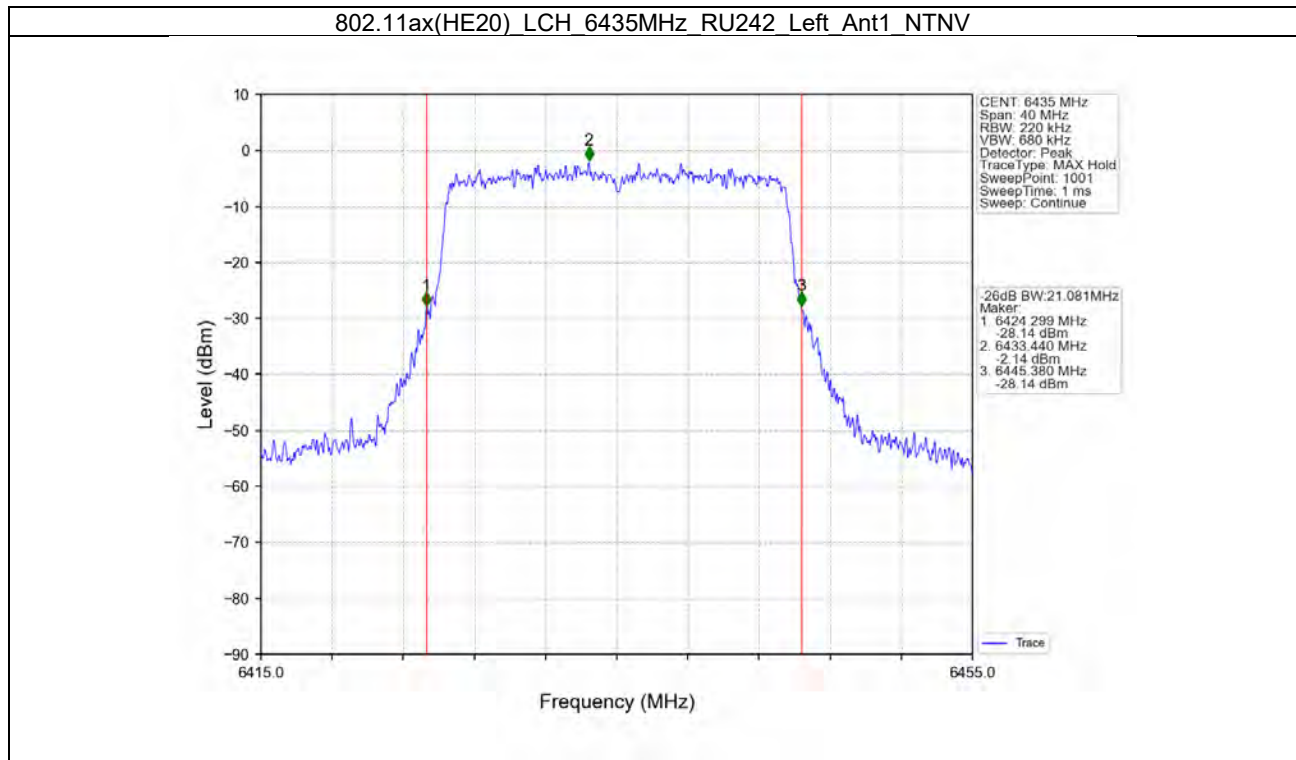
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2.2.4 26dB BW



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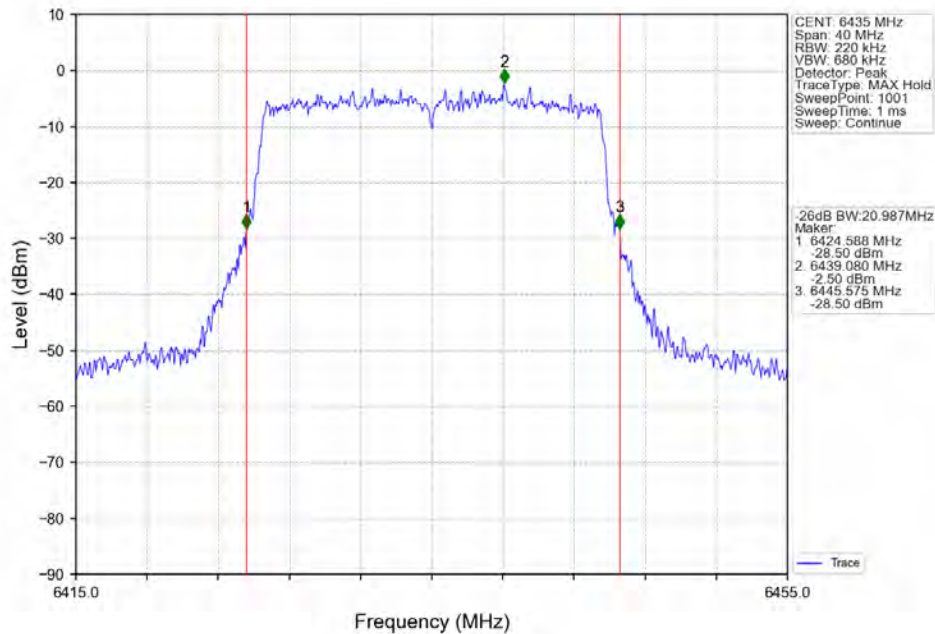
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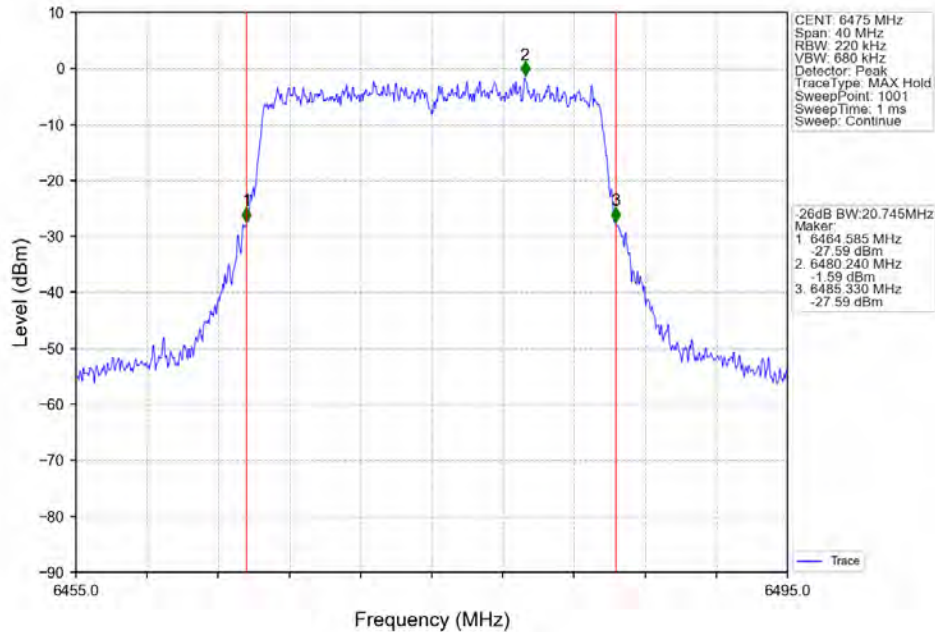
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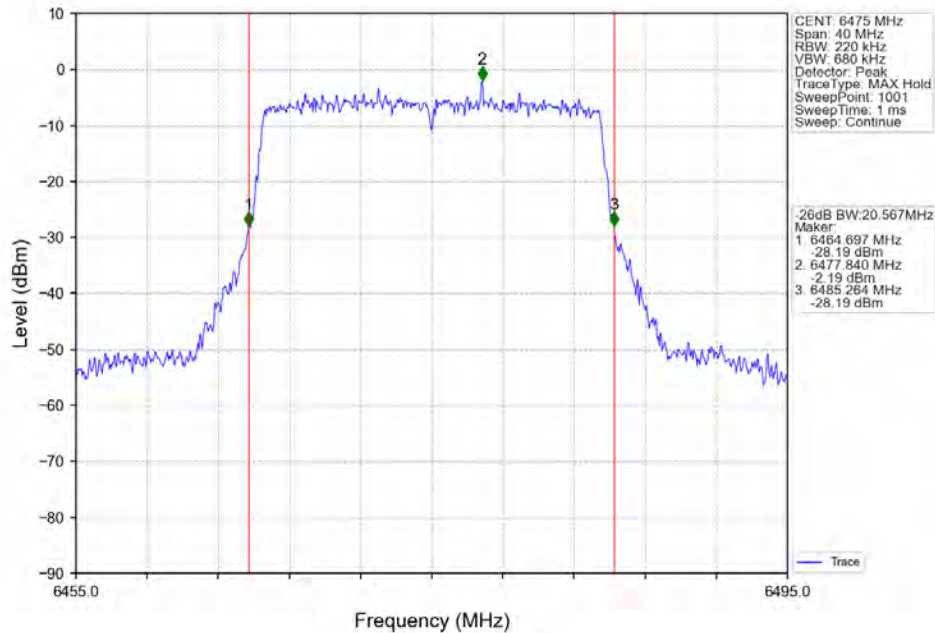
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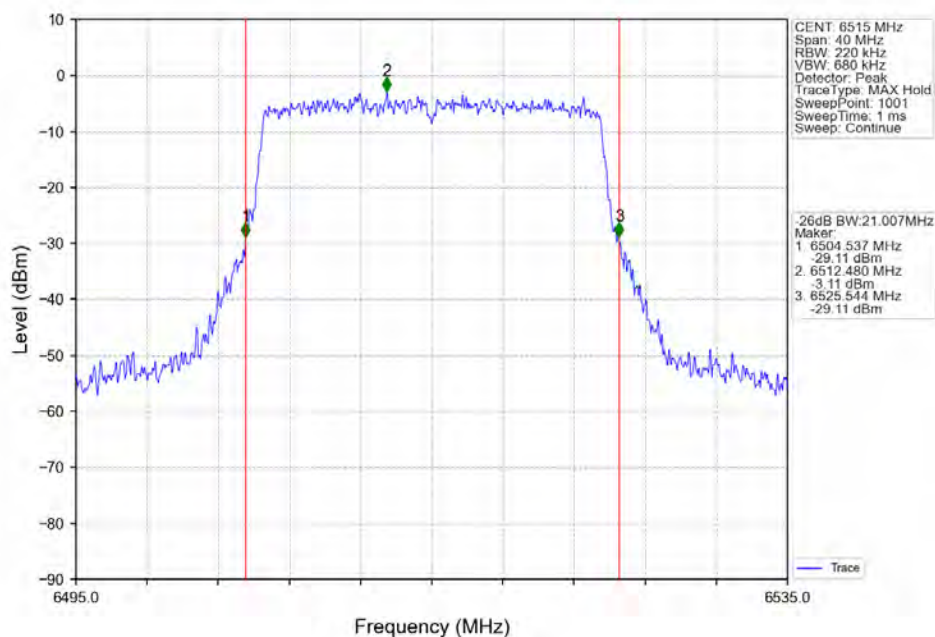
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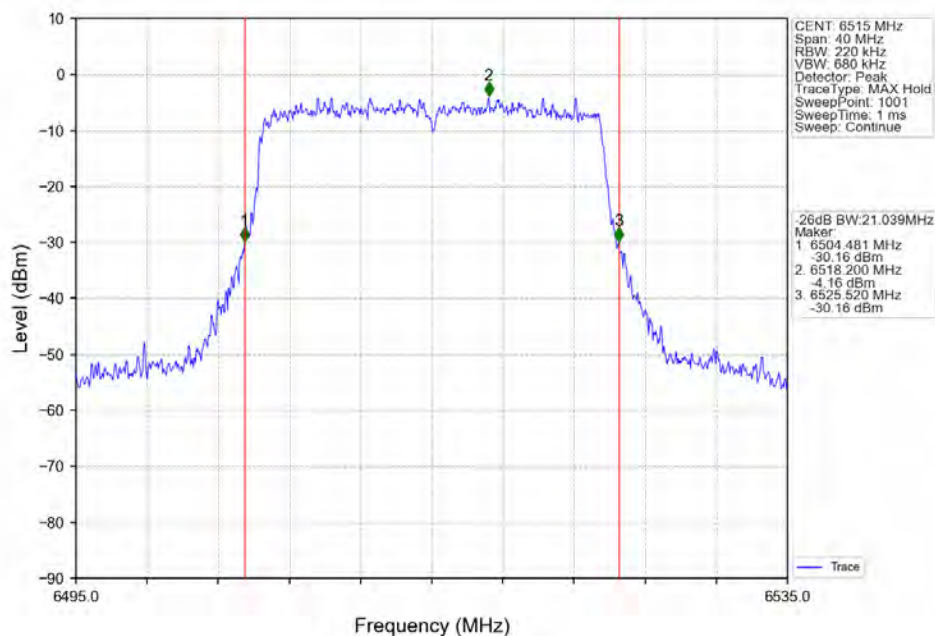
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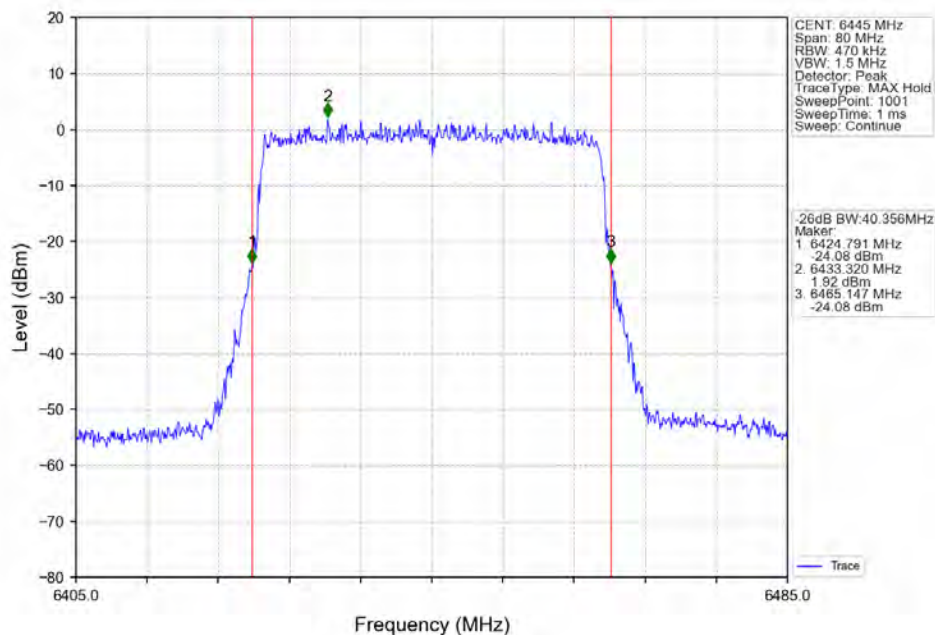
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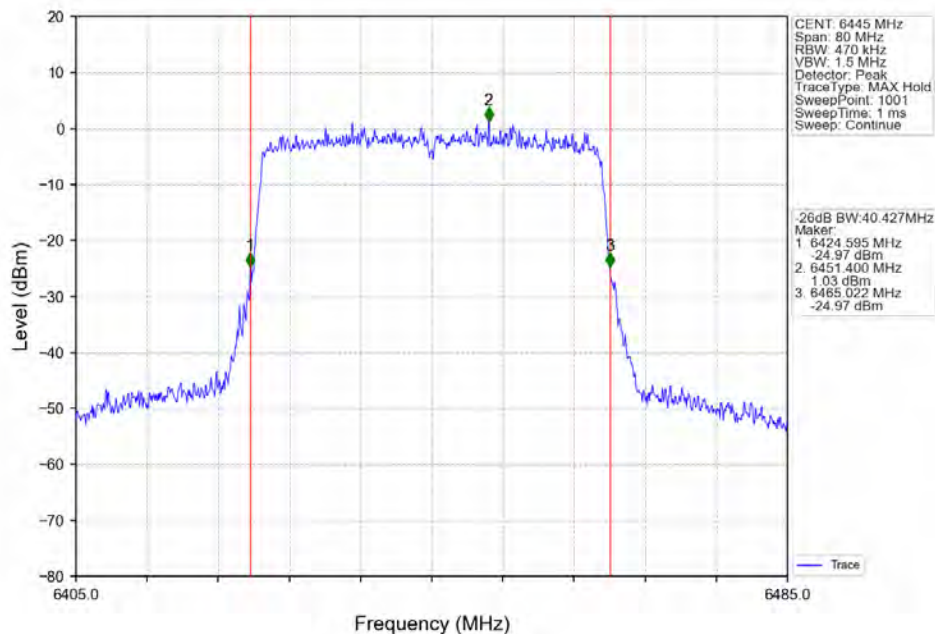
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802.11ax(HE40)_LCH_6445MHz_RU484_Left Ant1_NTNV



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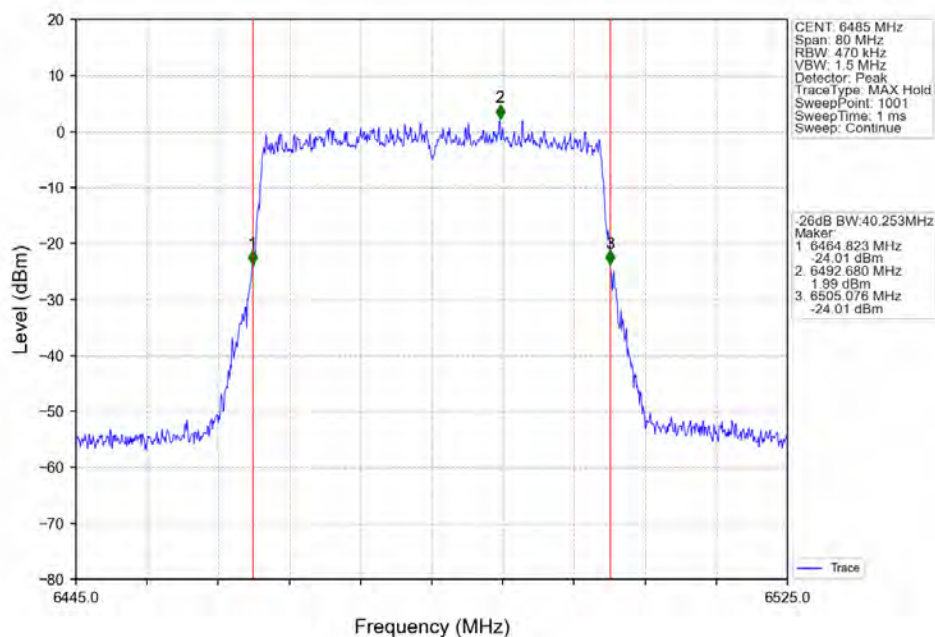
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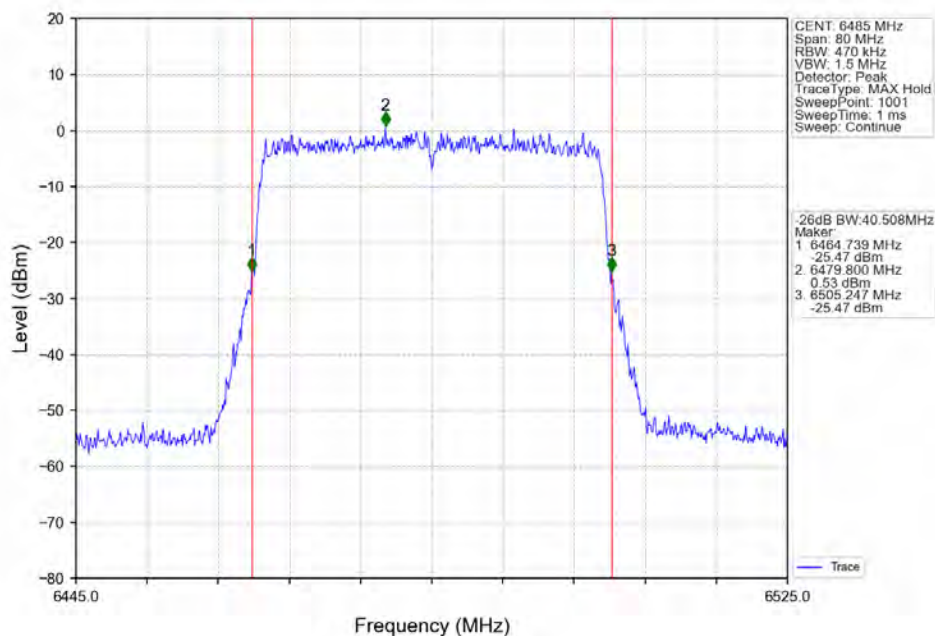
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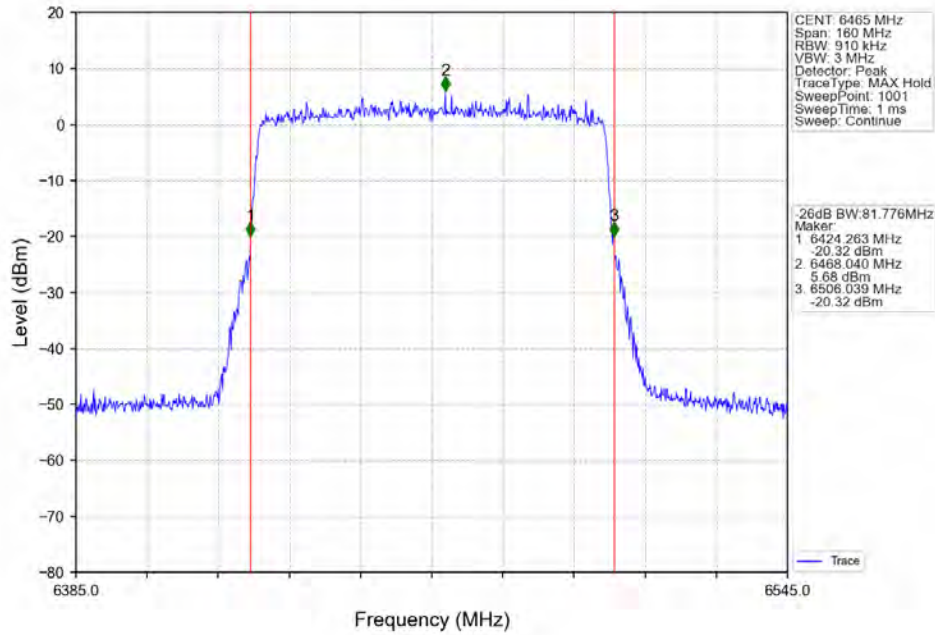
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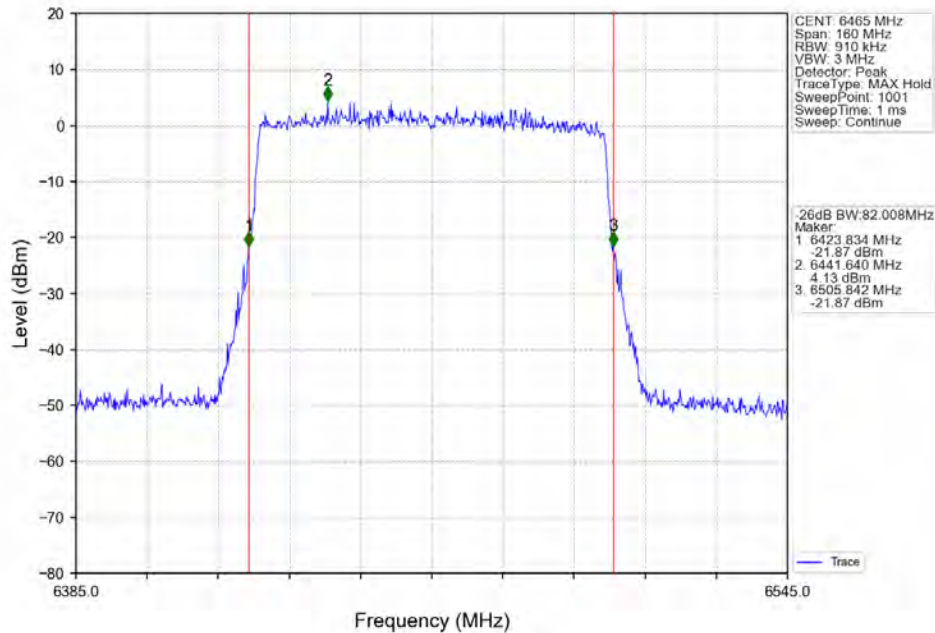
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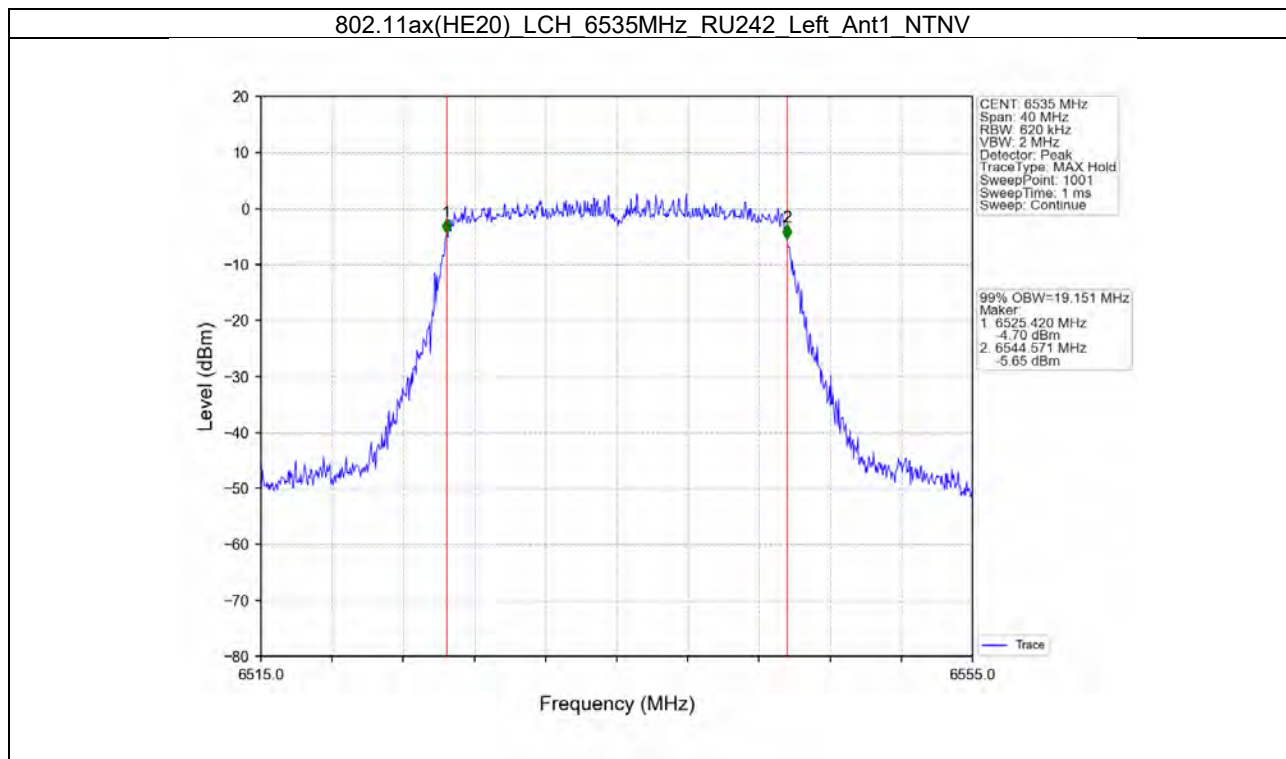
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2.2.5 OBW



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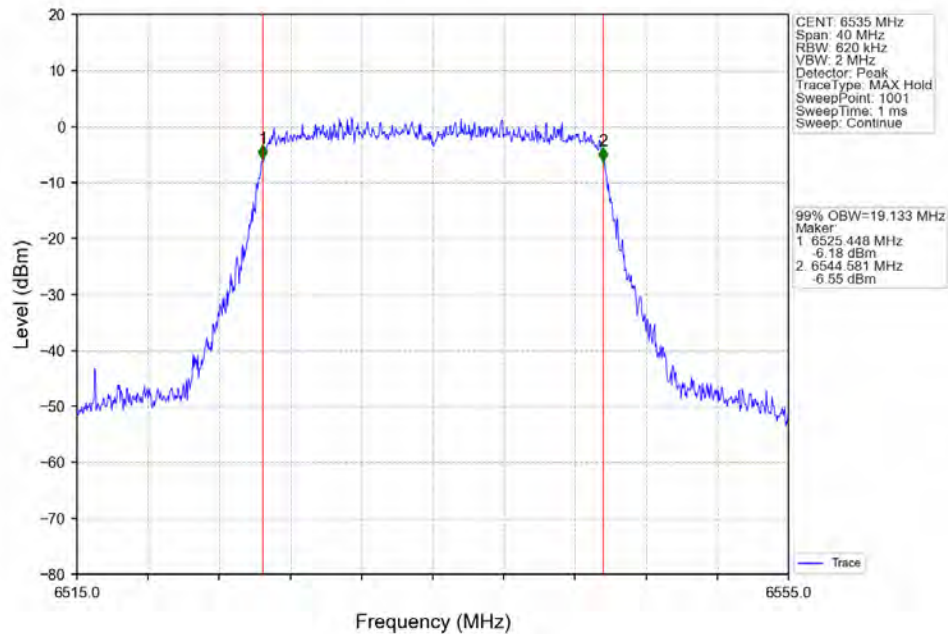
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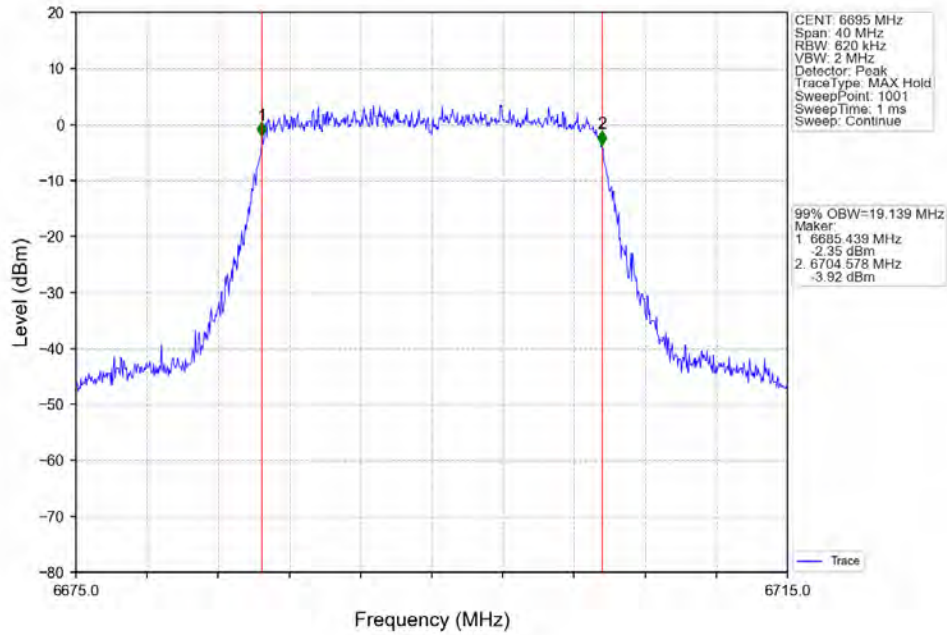
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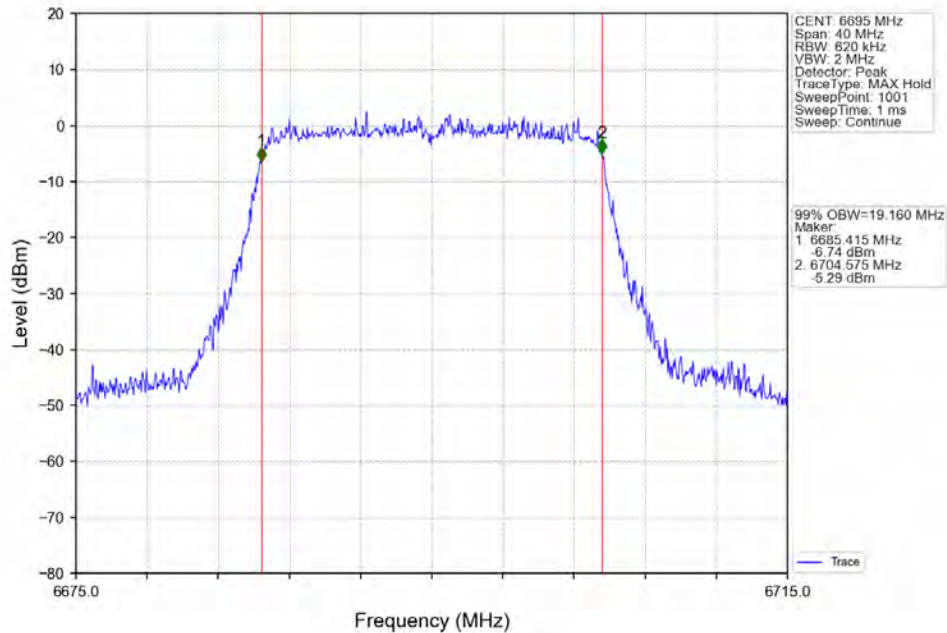
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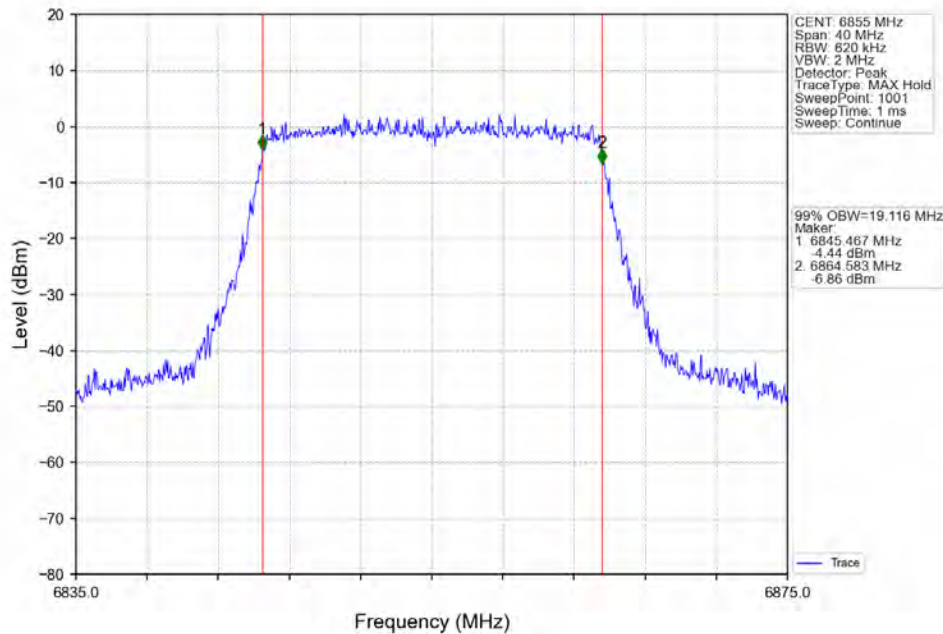
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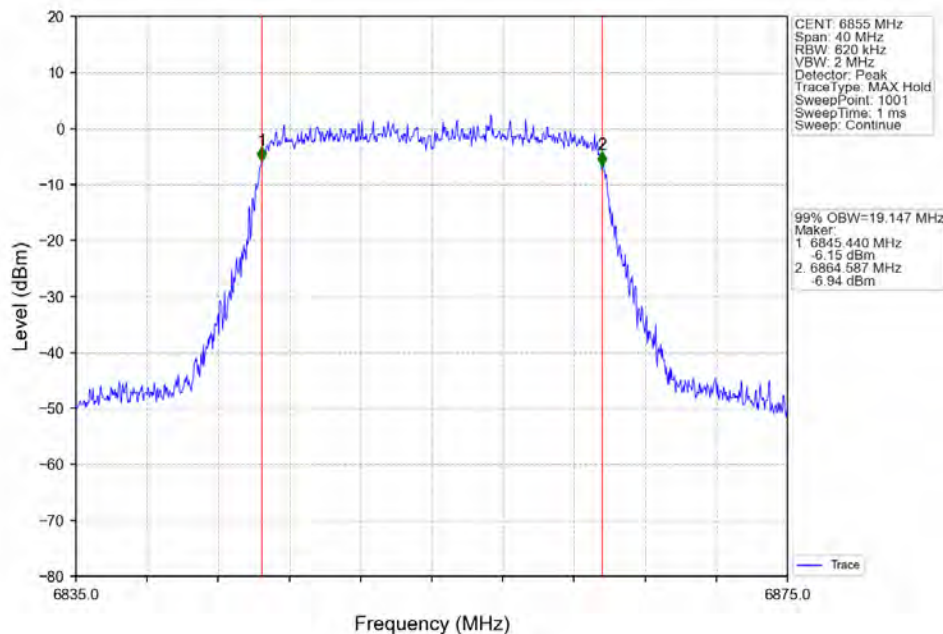
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