

7.8 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2013) Section 12.4.2

7.8.1 E.U.T. Operation

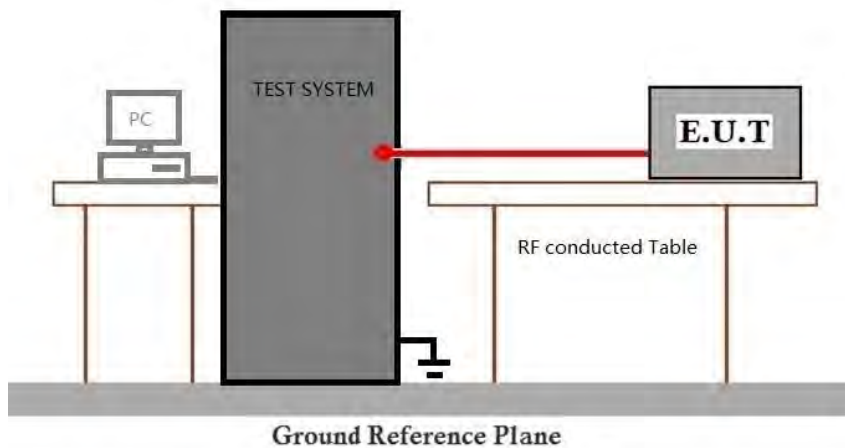
Operating Environment:

Temperature: 24 °C Humidity: 42 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80M, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2013) Section 12.4.1

7.9.1 E.U.T. Operation

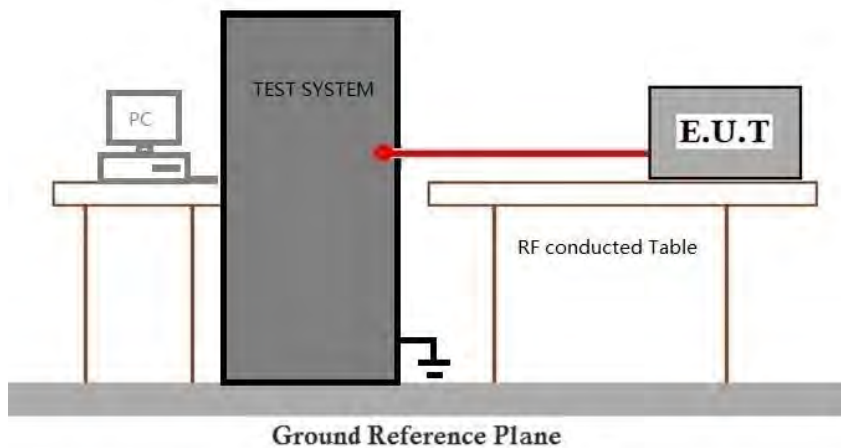
Operating Environment:

Temperature: 24 °C Humidity: 42 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80M, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.10 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C

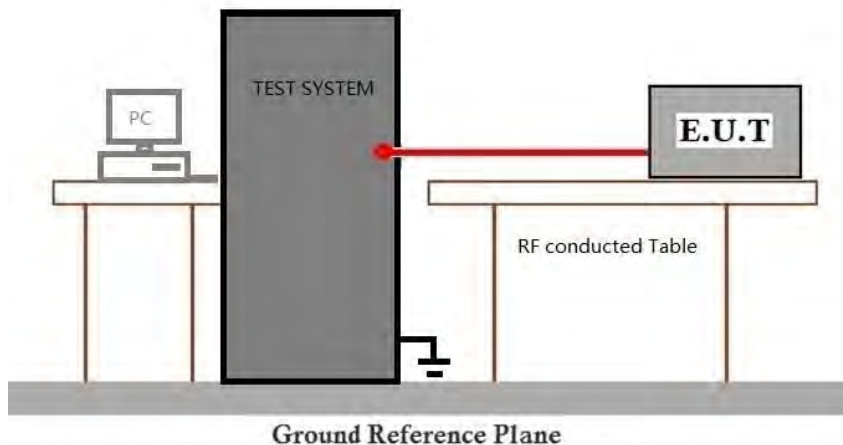
Humidity: 42 % RH

Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80M, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.11 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2013) Section 12.5

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.11.1 E.U.T. Operation

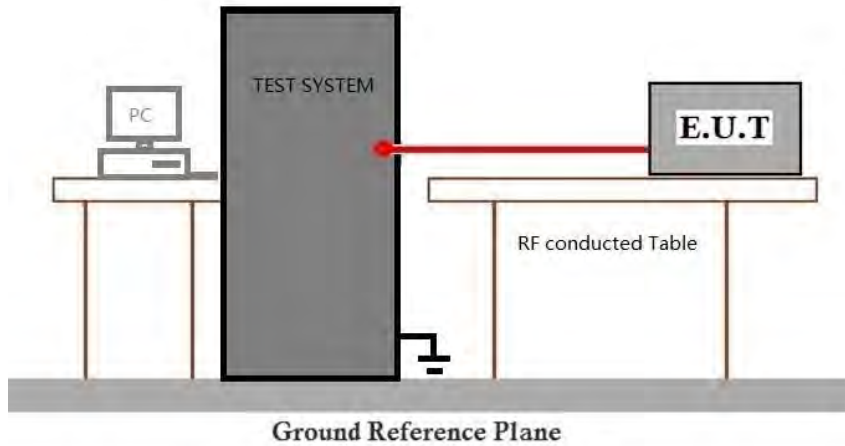
Operating Environment:

Temperature: 24 °C Humidity: 42 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80M, Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.12 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C

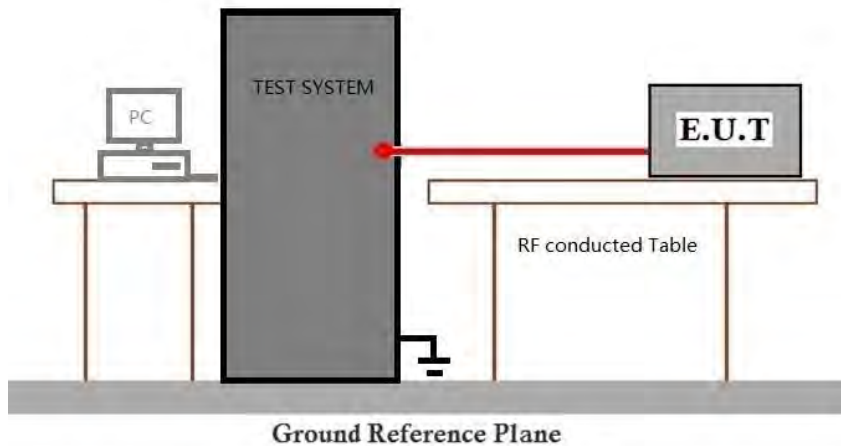
Humidity: 42 % RH

Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80M, Only the data of worst case is recorded in the report.

7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.13 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

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

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

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

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 42 % RH Atmospheric Pressure: 1020 mbar



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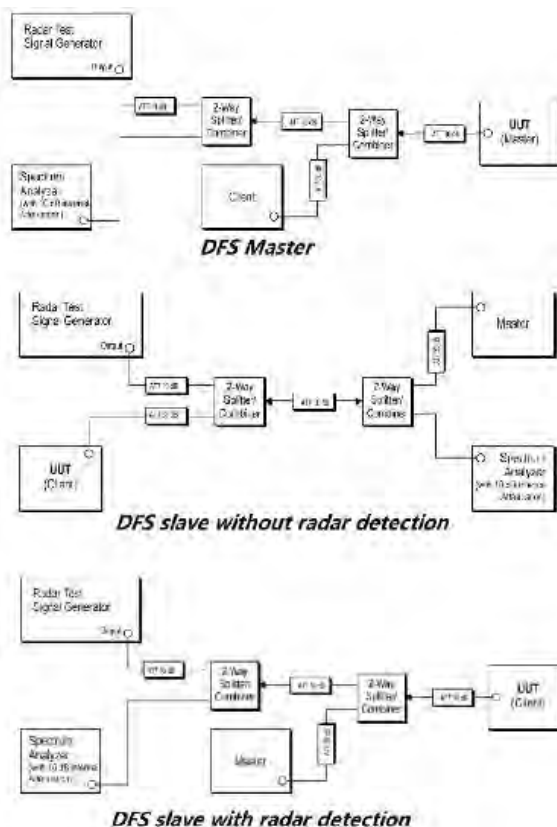
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7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Normal operating_Keep the EUT communication with the companion device.

7.13.3 Test Setup Diagram



7.13.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

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

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

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

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 42 % RH Atmospheric Pressure: 1020 mbar



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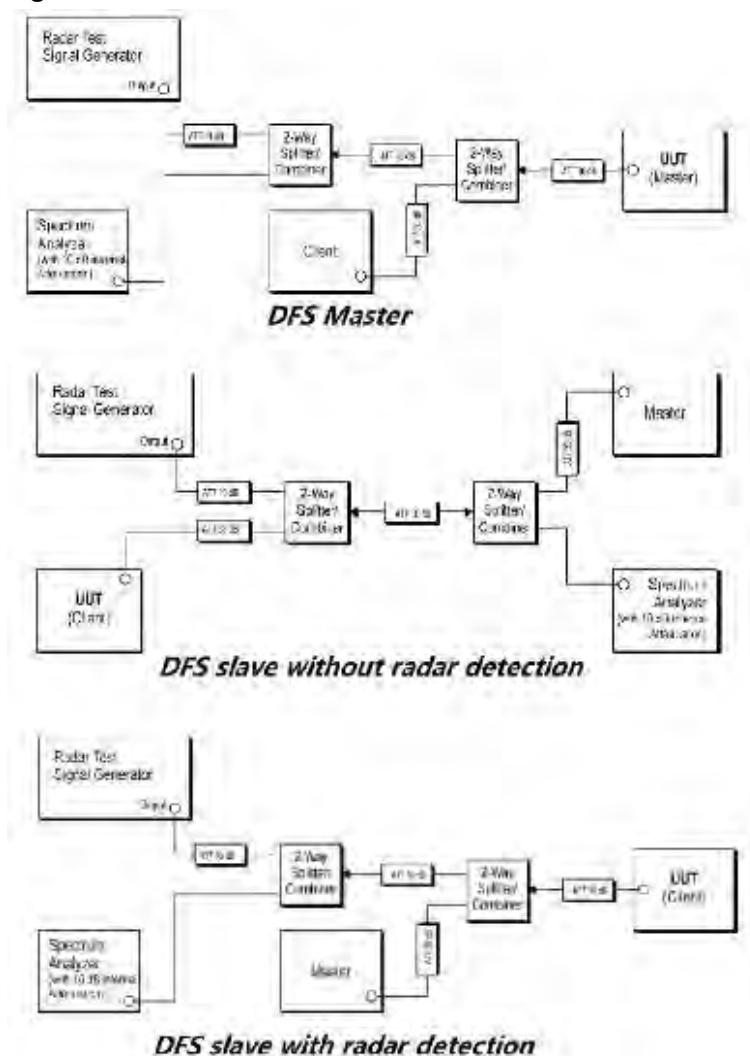
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7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Normal operating_Keep the EUT communication with the companion device.

7.14.3 Test Setup Diagram



7.14.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

8 Test Setup Photo

Please refer to SZCR2411004510 Appendix_Setup Photo

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2411004510WM.

10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant8

Ant8									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	MIMO	5180	/	/	1.393	1.434	97.14	0.13	0.03
		5200	/	/	1.393	1.435	97.07	0.13	0.00
		5240	/	/	1.393	1.435	97.07	0.13	0.06
		5260	/	/	1.392	1.435	97.00	0.13	0.07
		5300	/	/	1.394	1.436	97.08	0.13	0.03
		5320	/	/	1.393	1.435	97.07	0.13	0.03
		5500	/	/	1.393	1.435	97.07	0.13	0.03
		5580	/	/	1.393	1.436	97.01	0.13	0.06
		5700	/	/	1.393	1.436	97.01	0.13	0.03
		5745	/	/	1.394	1.435	97.14	0.13	0.00
		5785	/	/	1.392	1.435	97.00	0.13	0.07
		5825	/	/	1.393	1.436	97.01	0.13	0.03
		5720	/	/	1.393	1.435	97.07	0.13	0.00
802.11n (HT20)	MIMO	5180	/	/	1.301	1.343	96.87	0.14	0.03
		5200	/	/	1.301	1.343	96.87	0.14	0.03
		5240	/	/	1.301	1.343	96.87	0.14	0.03
		5260	/	/	1.301	1.343	96.87	0.14	0.03
		5300	/	/	1.301	1.343	96.87	0.14	0.03
		5320	/	/	1.301	1.343	96.87	0.14	0.03
		5500	/	/	1.301	1.343	96.87	0.14	0.03
		5580	/	/	1.301	1.343	96.87	0.14	0.03
		5700	/	/	1.301	1.343	96.87	0.14	0.03
		5745	/	/	1.302	1.344	96.88	0.14	0.03
		5785	/	/	1.301	1.343	96.87	0.14	0.03
		5825	/	/	1.301	1.343	96.87	0.14	0.07
		5720	/	/	1.301	1.343	96.87	0.14	0.07
802.11n	MIMO	5190	/	/	0.645	0.687	93.89	0.27	0.07

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(HT40)		5230	/	/	0.645	0.687	93.89	0.27	0.03
		5270	/	/	0.645	0.687	93.89	0.27	0.06
		5310	/	/	0.645	0.687	93.89	0.27	0.07
		5510	/	/	0.645	0.687	93.89	0.27	0.03
		5550	/	/	0.645	0.687	93.89	0.27	0.07
		5670	/	/	0.645	0.687	93.89	0.27	0.03
		5755	/	/	0.645	0.687	93.89	0.27	0.04
		5795	/	/	0.645	0.687	93.89	0.27	0.03
		5710	/	/	0.645	0.687	93.89	0.27	0.03
802.11ac (VHT20)	MIMO	5180	/	/	1.310	1.351	96.97	0.13	0.00
		5200	/	/	1.309	1.351	96.89	0.14	0.03
		5240	/	/	1.309	1.351	96.89	0.14	0.07
		5260	/	/	1.309	1.351	96.89	0.14	0.03
		5300	/	/	1.309	1.351	96.89	0.14	0.03
		5320	/	/	1.309	1.351	96.89	0.14	0.00
		5500	/	/	1.309	1.351	96.89	0.14	0.03
		5580	/	/	1.310	1.351	96.97	0.13	0.00
		5700	/	/	1.309	1.351	96.89	0.14	0.03
		5745	/	/	1.310	1.352	96.89	0.14	0.03
		5785	/	/	1.309	1.351	96.89	0.14	0.00
		5825	/	/	1.308	1.351	96.82	0.14	0.03
		5720	/	/	1.309	1.351	96.89	0.14	0.00
802.11ac (VHT40)	MIMO	5190	/	/	0.653	0.695	93.96	0.27	0.06
		5230	/	/	0.653	0.695	93.96	0.27	0.07
		5270	/	/	0.653	0.695	93.96	0.27	0.03
		5310	/	/	0.653	0.695	93.96	0.27	0.03
		5510	/	/	0.653	0.695	93.96	0.27	0.03
		5550	/	/	0.653	0.694	94.09	0.26	0.00
		5670	/	/	0.654	0.695	94.10	0.26	0.03
		5755	/	/	0.654	0.695	94.10	0.26	0.03
		5795	/	/	0.653	0.695	93.96	0.27	0.04
802.11ac (VHT80)	MIMO	5710	/	/	0.653	0.695	93.96	0.27	0.03
		5210	/	/	0.325	0.367	88.56	0.53	0.04
		5290	/	/	0.325	0.367	88.56	0.53	0.04
		5530	/	/	0.325	0.367	88.56	0.53	0.03
		5610	/	/	0.325	0.367	88.56	0.53	0.04
		5775	/	/	0.325	0.367	88.56	0.53	0.00
802.11ax (HEW20)	MIMO	5690	/	/	0.325	0.367	88.56	0.53	0.03
		5180	SU	/	1.018	1.060	96.04	0.18	0.03
		5200	SU	/	1.017	1.060	95.94	0.18	0.03

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		5240	SU	/	1.017	1.060	95.94	0.18	0.03
		5260	SU	/	1.017	1.060	95.94	0.18	0.00
		5300	SU	/	1.017	1.060	95.94	0.18	0.03
		5320	SU	/	1.018	1.060	96.04	0.18	0.00
		5500	SU	/	1.017	1.060	95.94	0.18	0.03
		5580	SU	/	1.018	1.060	96.04	0.18	0.03
		5700	SU	/	1.018	1.060	96.04	0.18	0.03
		5745	SU	/	1.017	1.060	95.94	0.18	0.00
		5785	SU	/	1.017	1.060	95.94	0.18	0.03
		5825	SU	/	1.018	1.060	96.04	0.18	0.03
		5720	SU	/	1.017	1.060	95.94	0.18	0.03
802.11ax (HEW40)	MIMO	5190	SU	/	0.538	0.581	92.60	0.33	0.19
		5230	SU	/	0.538	0.580	92.76	0.33	0.07
		5270	SU	/	0.537	0.580	92.59	0.33	0.07
		5310	SU	/	0.537	0.580	92.59	0.33	0.07
		5510	SU	/	0.538	0.580	92.76	0.33	0.10
		5550	SU	/	0.537	0.580	92.59	0.33	0.07
		5670	SU	/	0.538	0.580	92.76	0.33	0.07
		5755	SU	/	0.538	0.580	92.76	0.33	0.03
		5795	SU	/	0.538	0.580	92.76	0.33	0.07
		5710	SU	/	0.537	0.580	92.59	0.33	0.07
802.11ax (HEW80)	MIMO	5210	SU	/	0.292	0.334	87.43	0.58	0.06
		5290	SU	/	0.290	0.334	86.83	0.61	0.17
		5530	SU	/	0.291	0.334	87.13	0.60	0.14
		5610	SU	/	0.293	0.334	87.72	0.57	0.03
		5775	SU	/	0.292	0.334	87.43	0.58	0.14
		5690	SU	/	0.292	0.334	87.43	0.58	0.06



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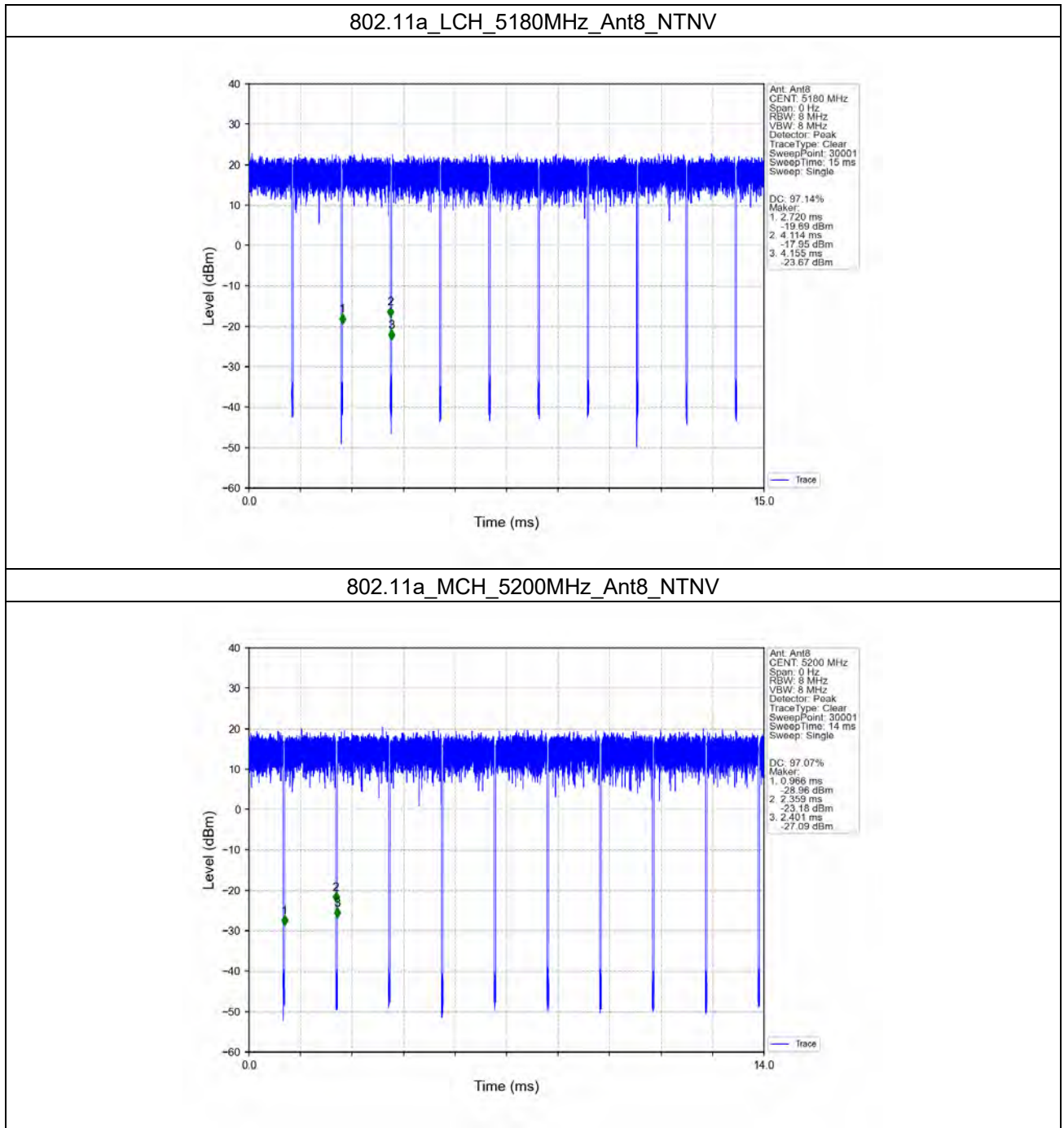
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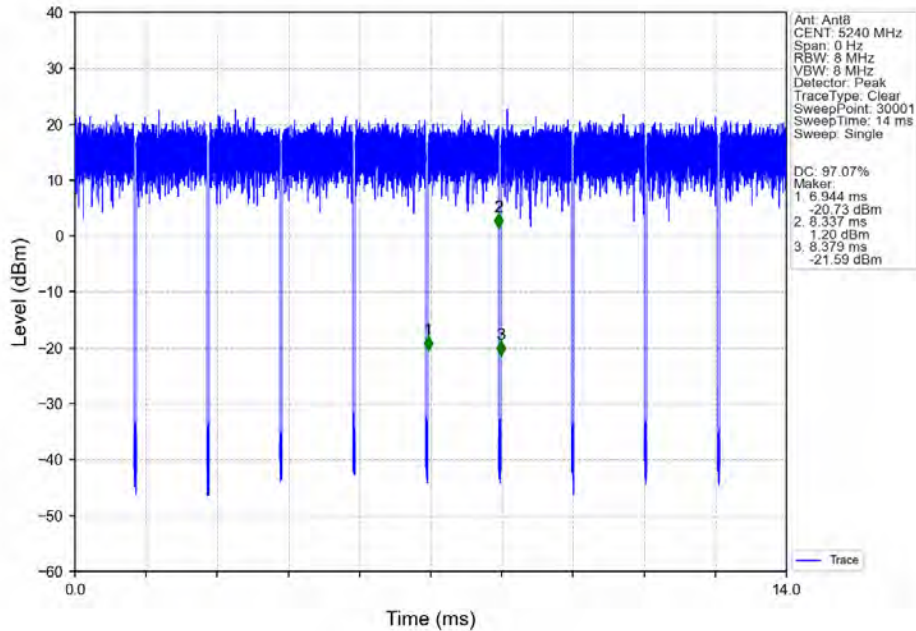
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1.2 Test Graph

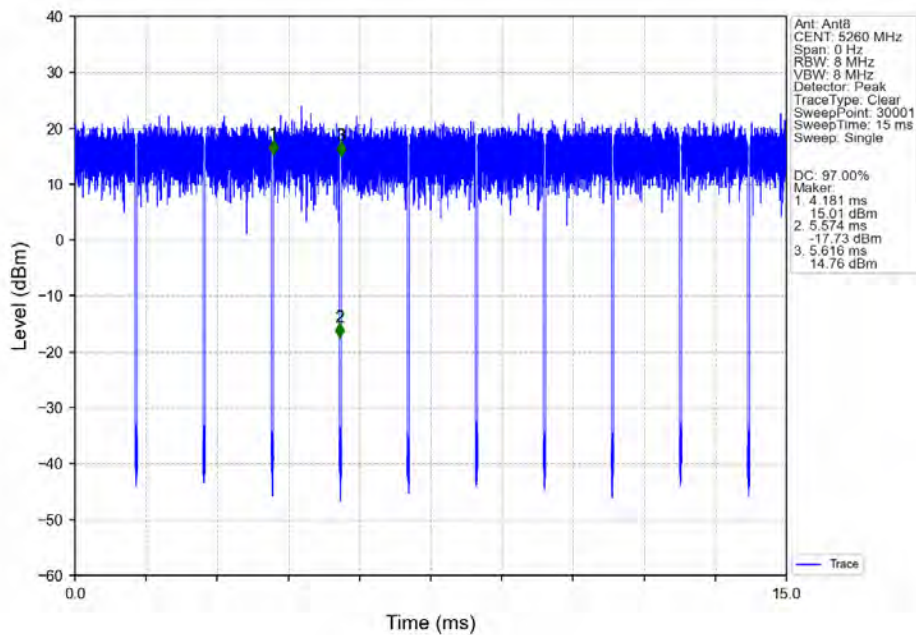
1.2.1 Ant8



802.11a_HCH_5240MHz_Ant8_NTNV



802.11a_LCH_5260MHz_Ant8_NTNV



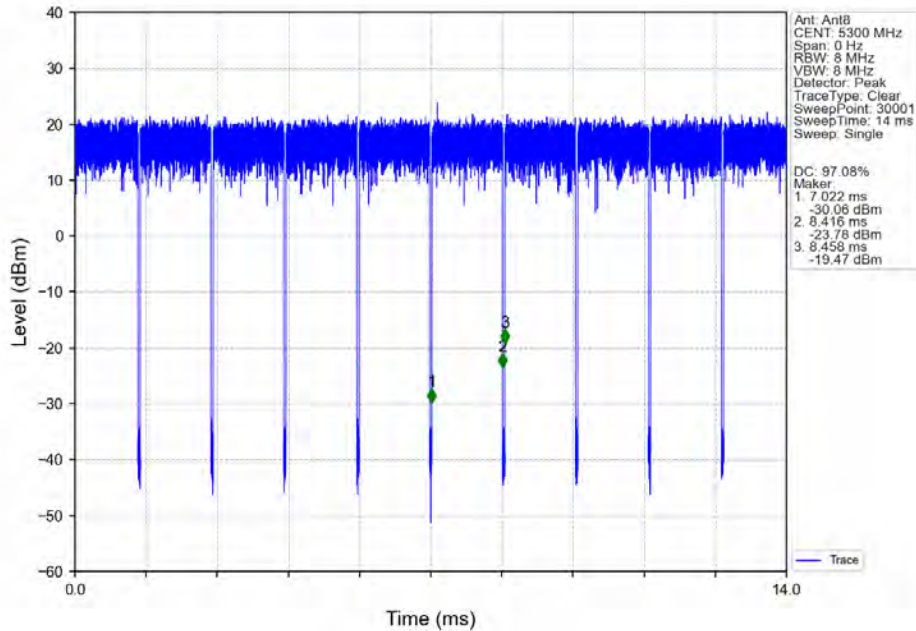
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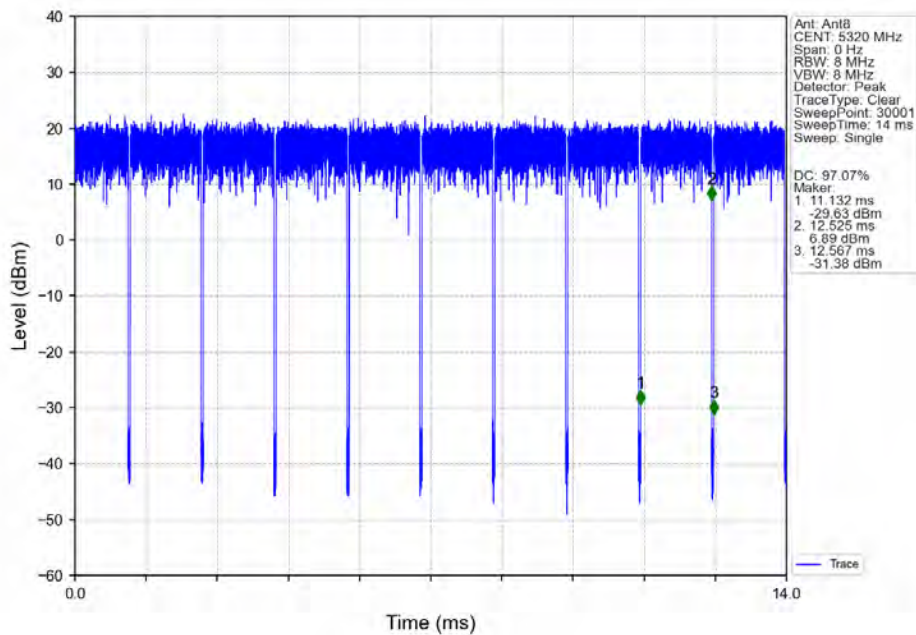
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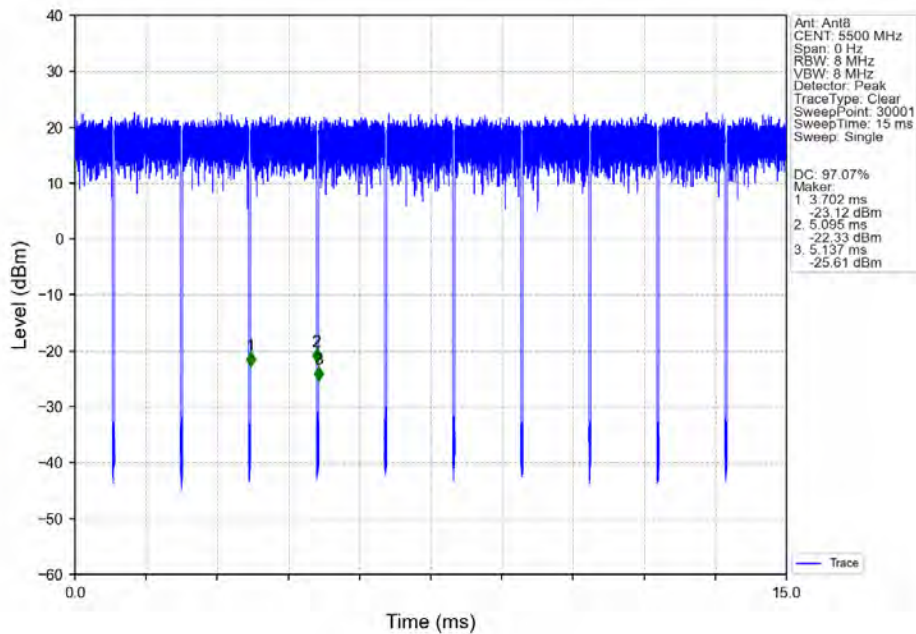
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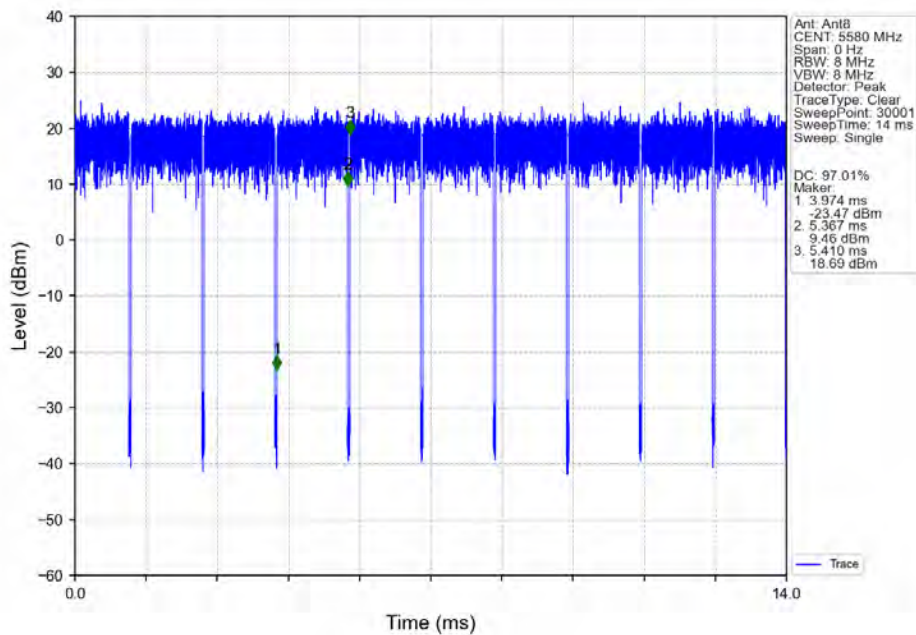
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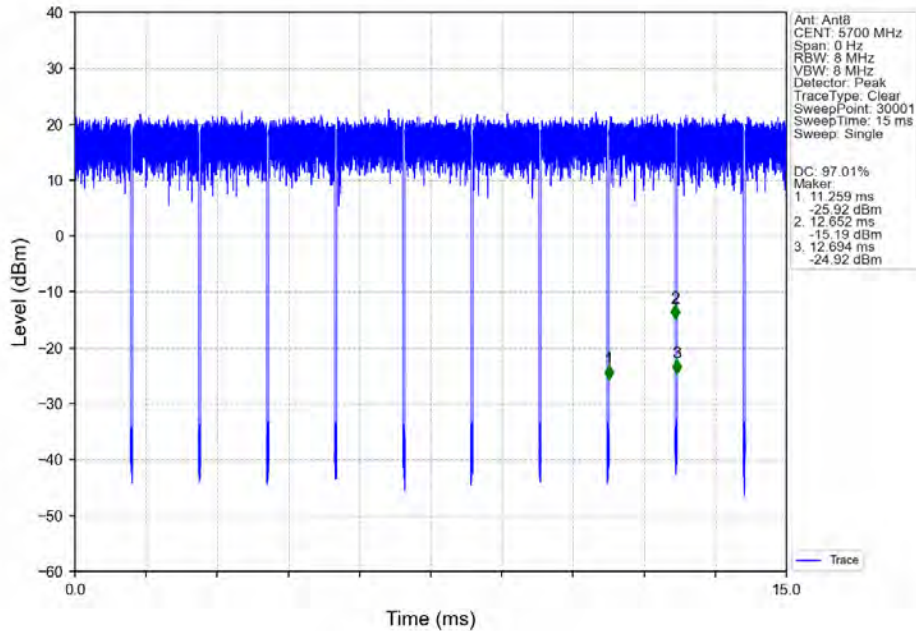
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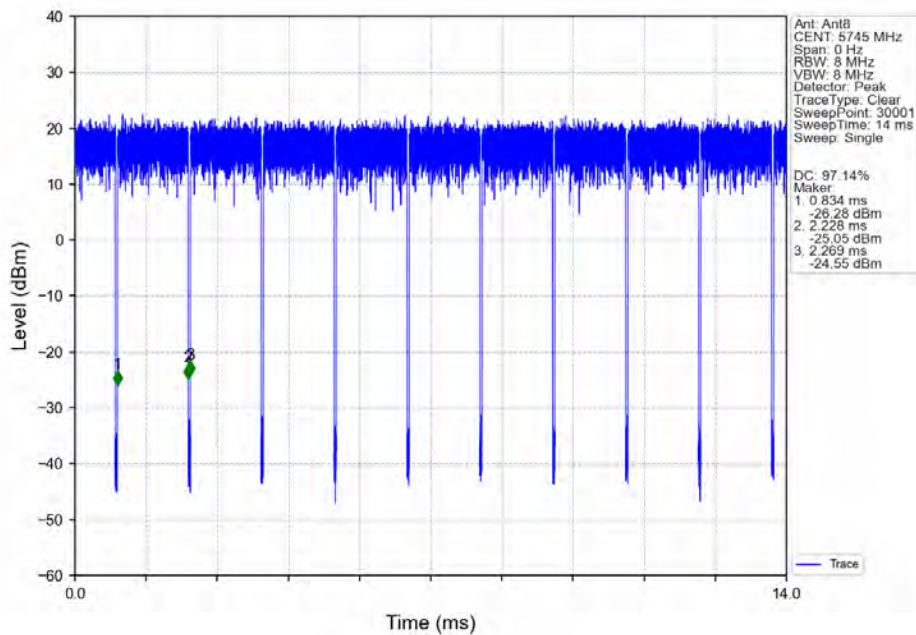
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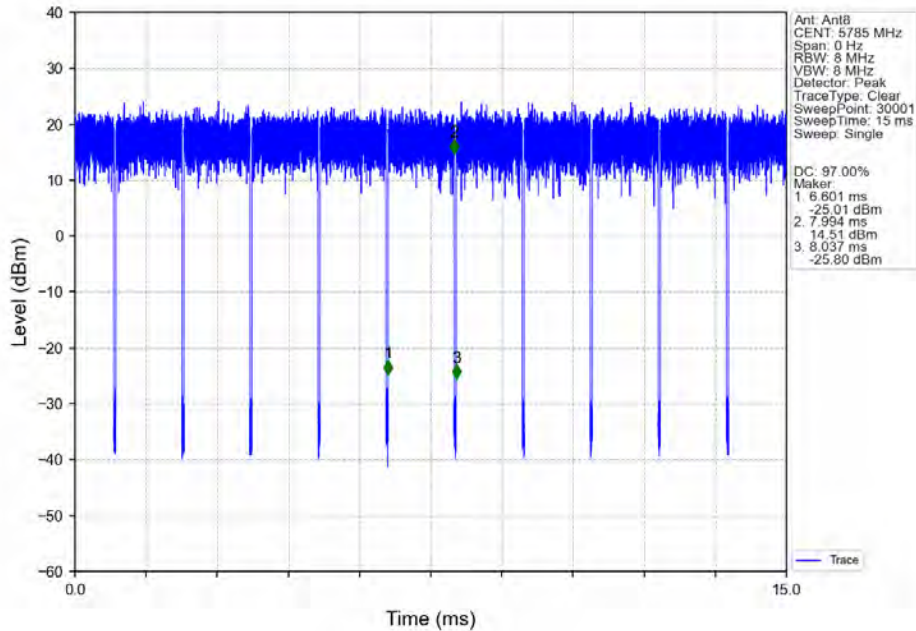
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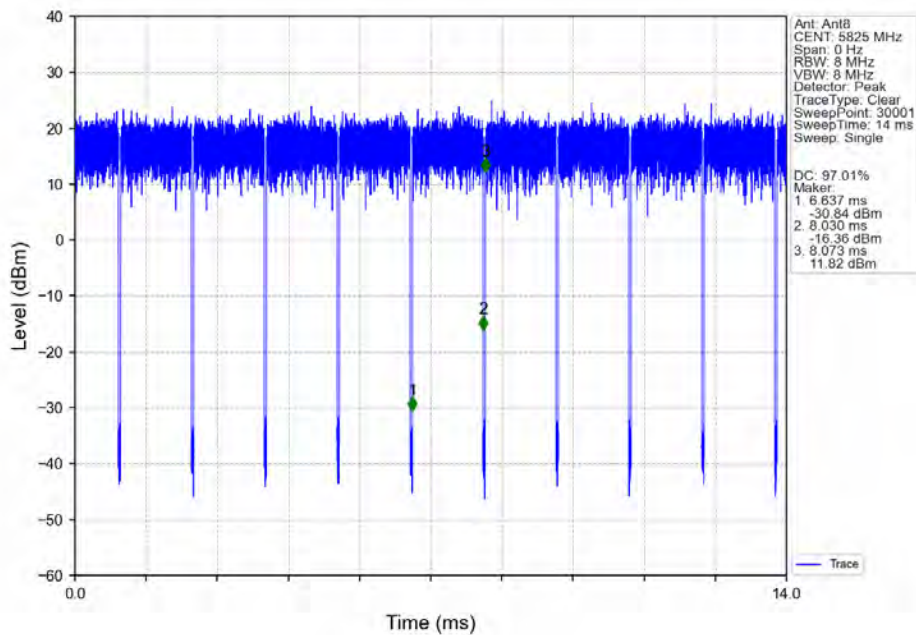
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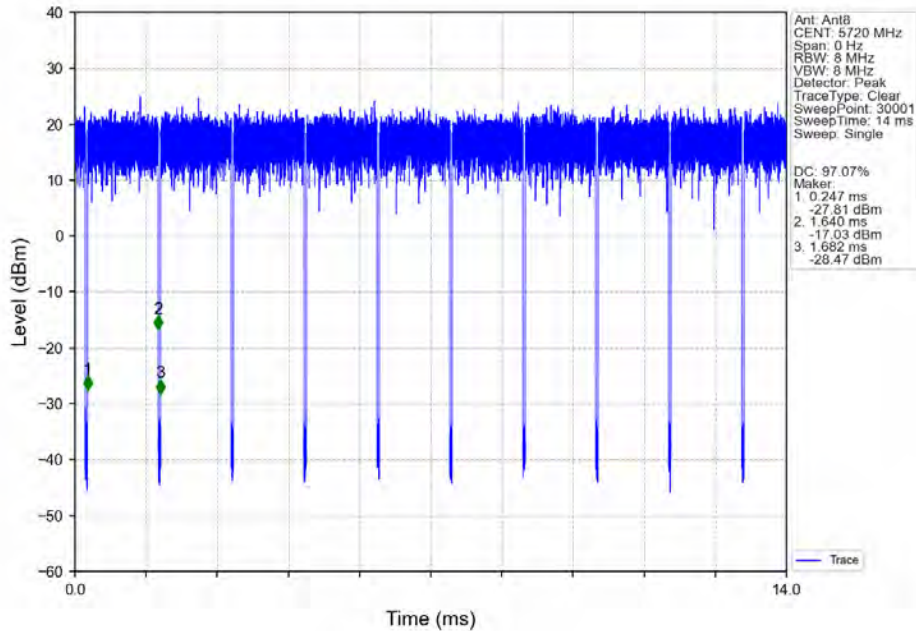
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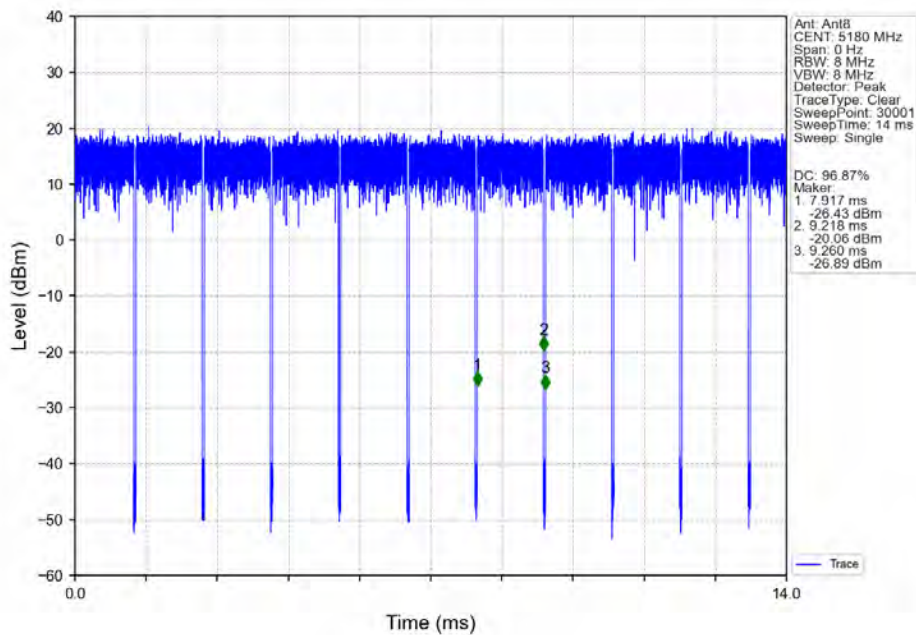
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802.11a_HCH_5720MHz_Ant8_NTNV



802.11n(HT20)_LCH_5180MHz_Ant8_NTNV



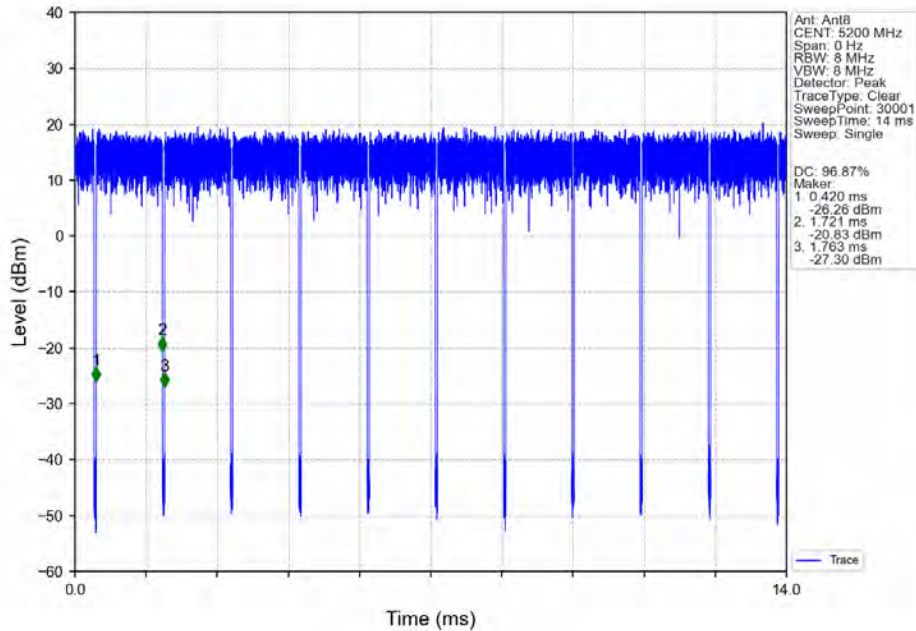
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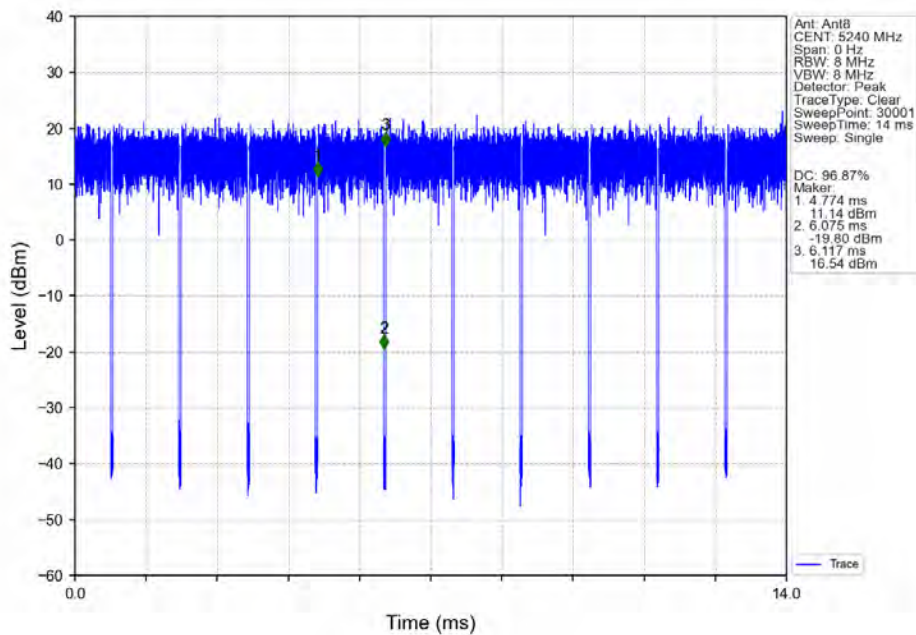
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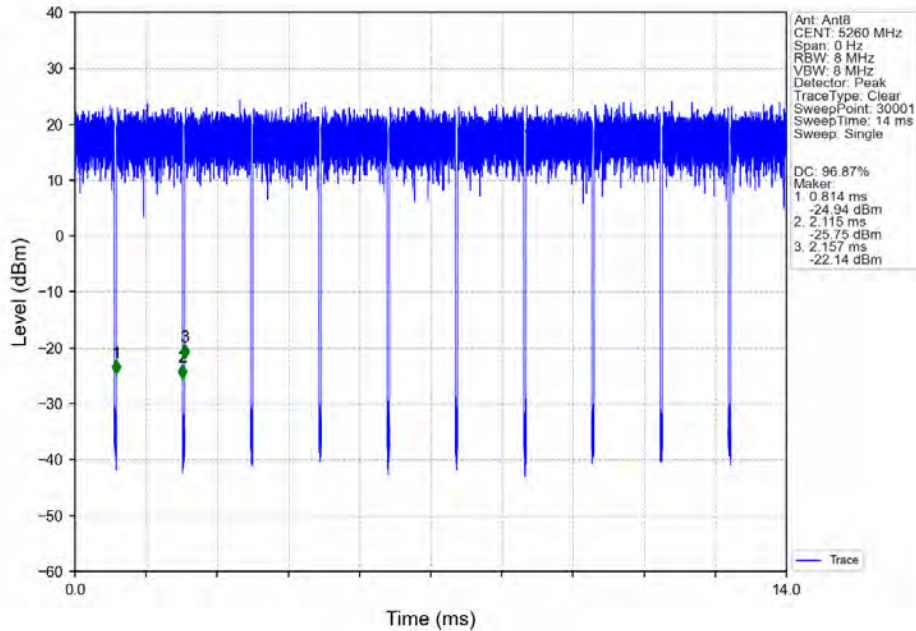
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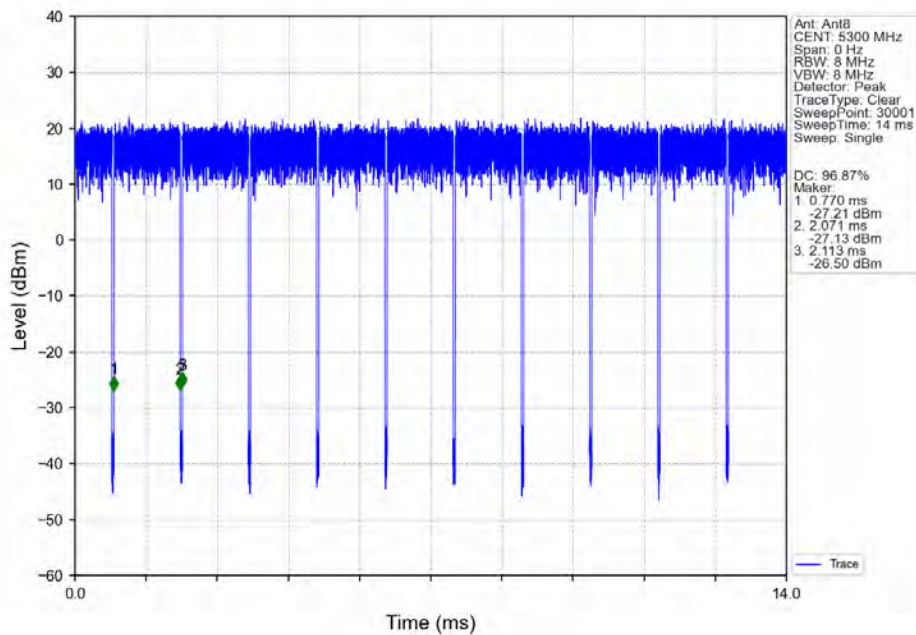
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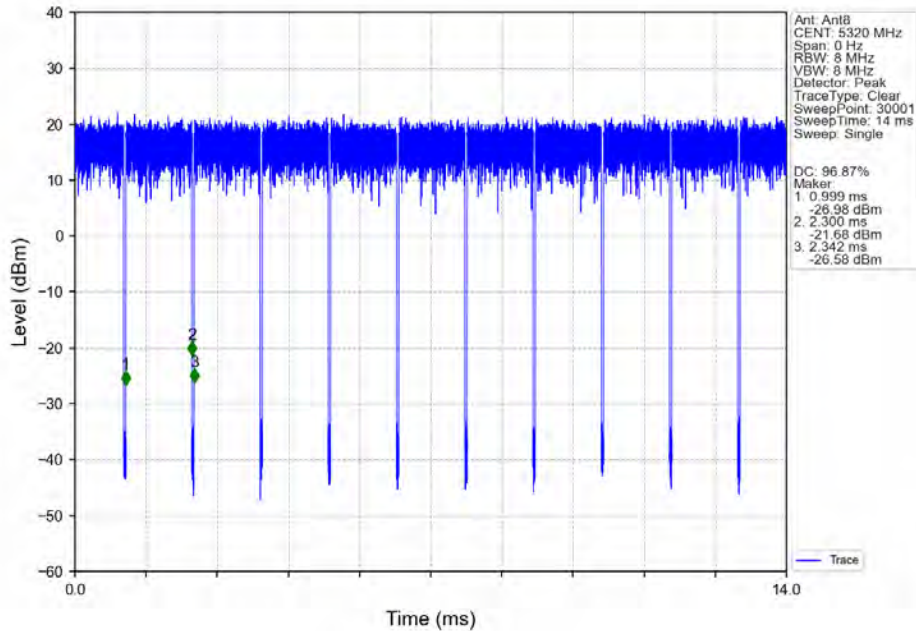
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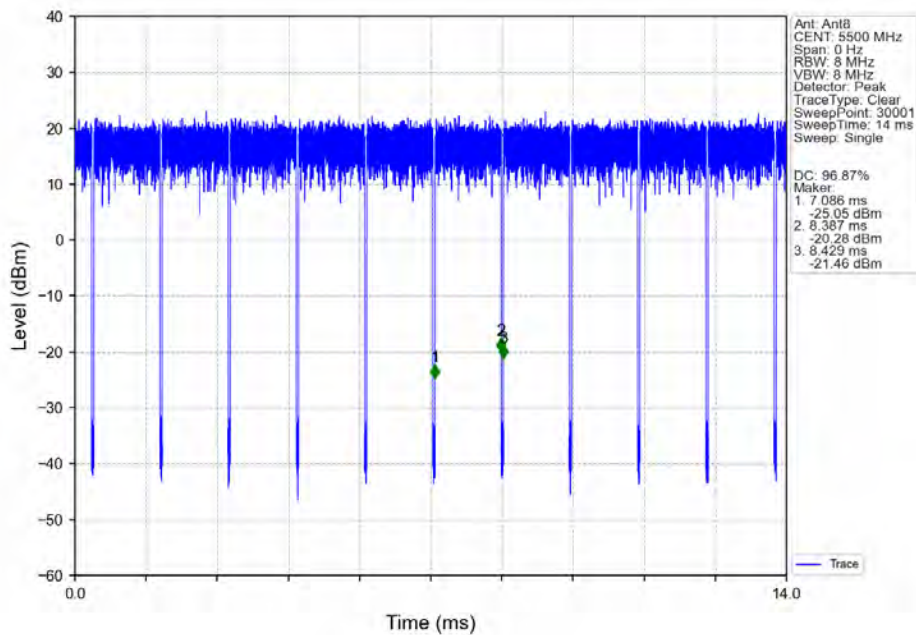
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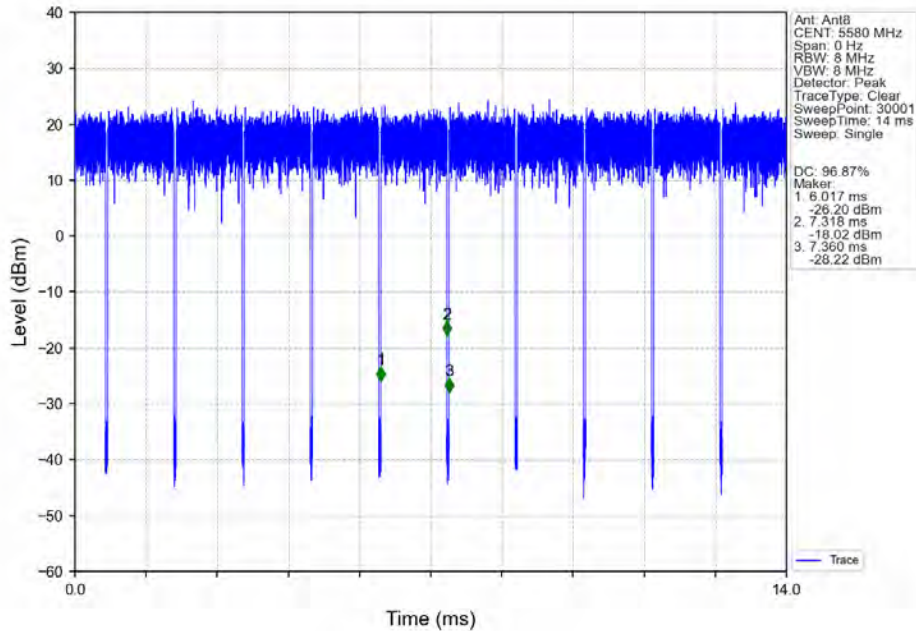
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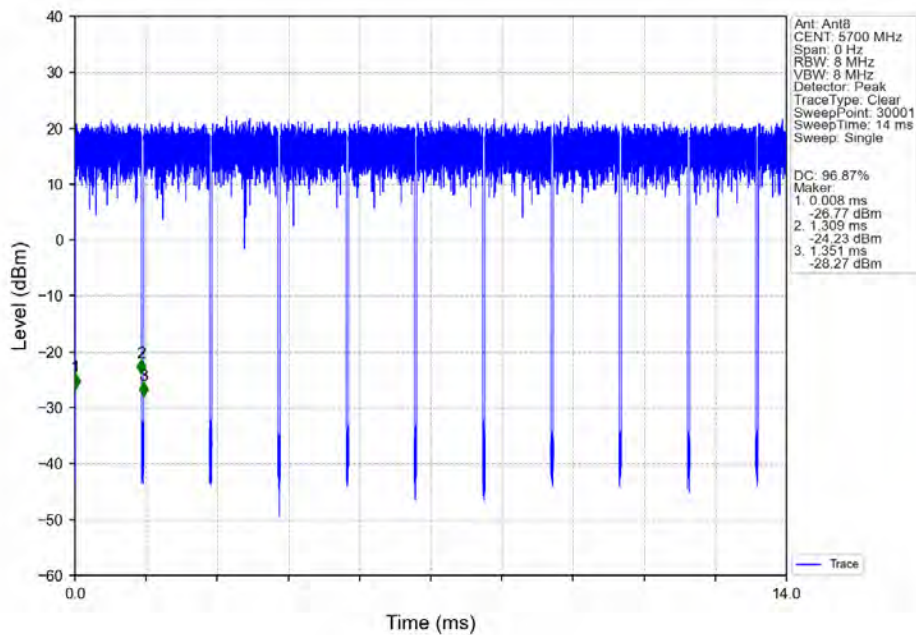
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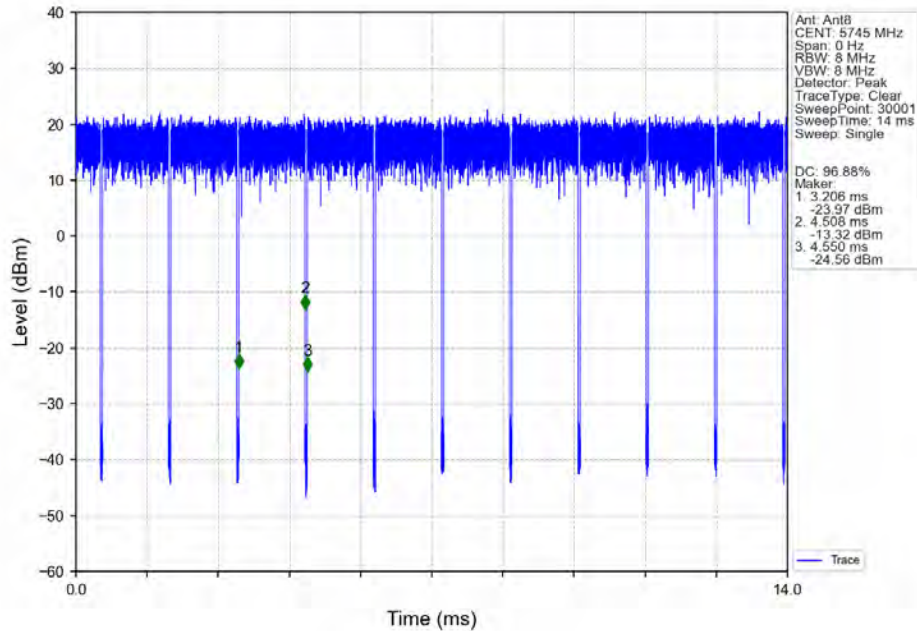
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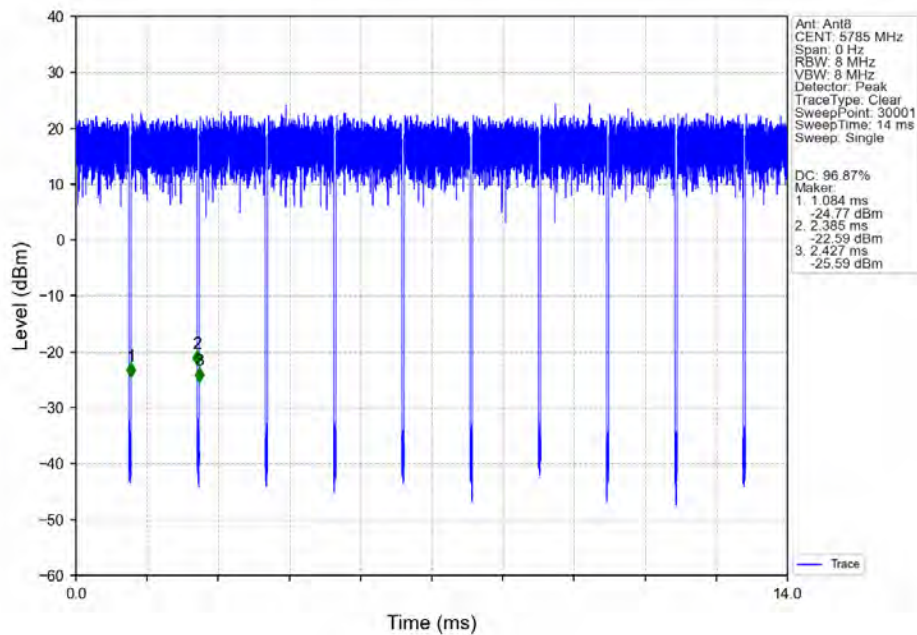
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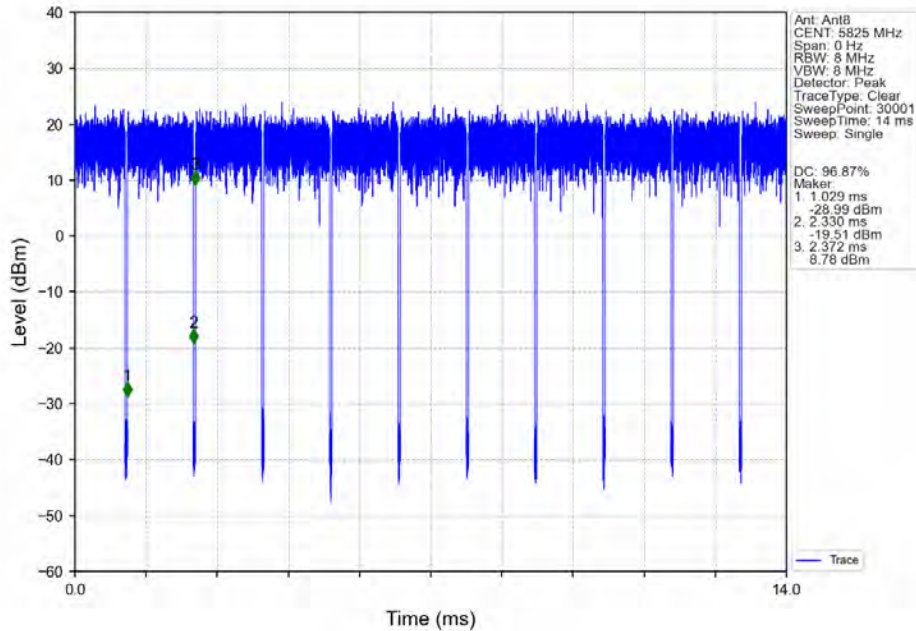
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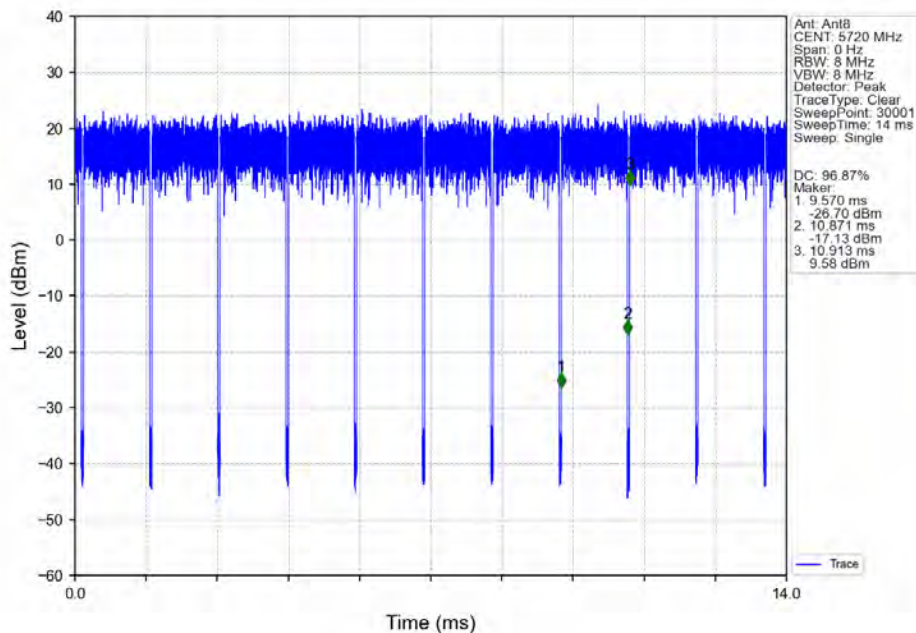
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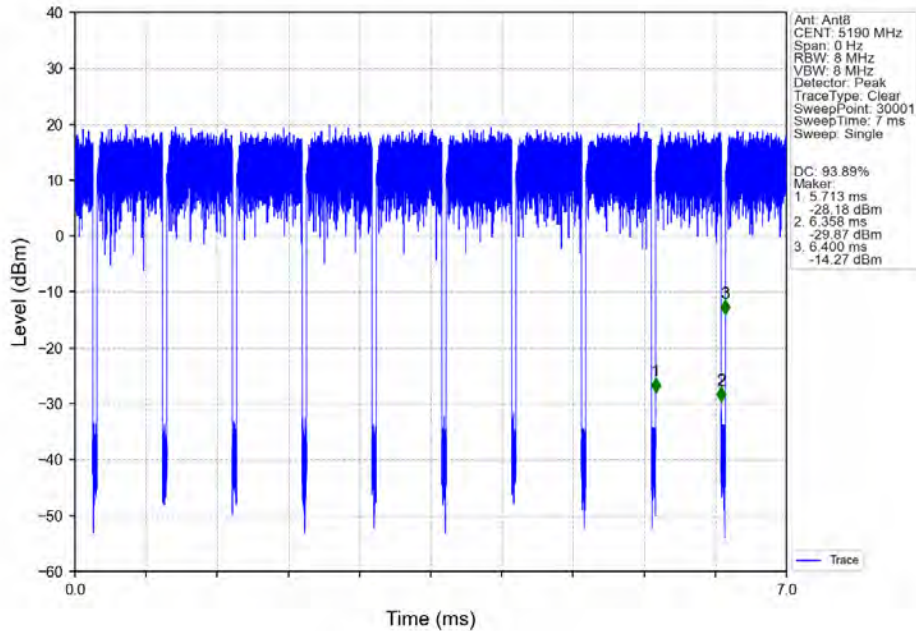
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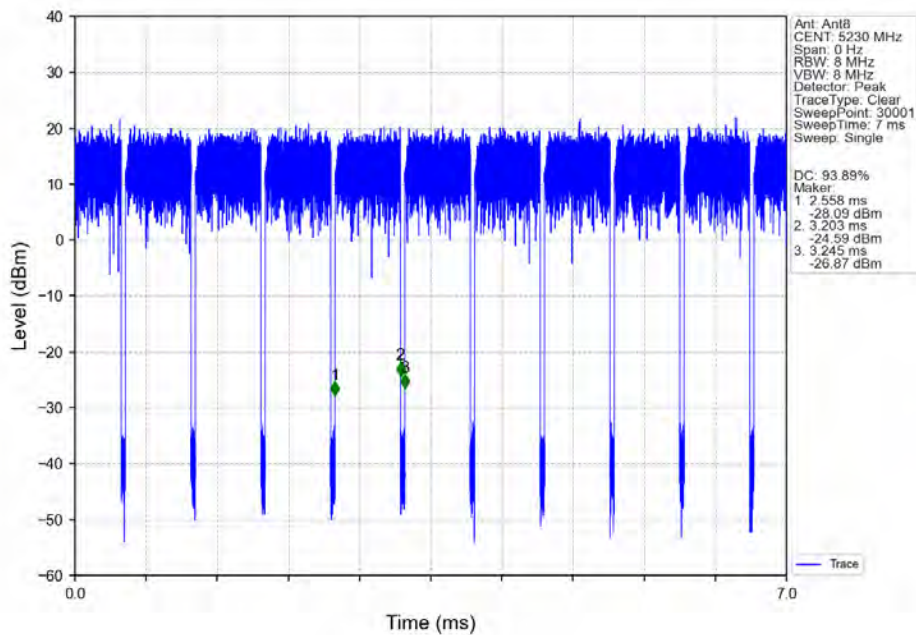
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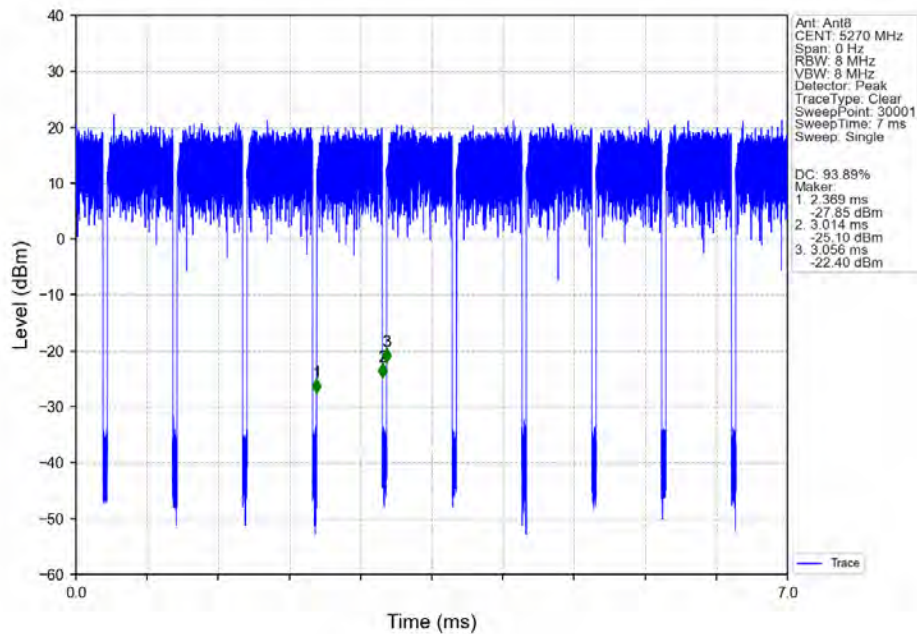
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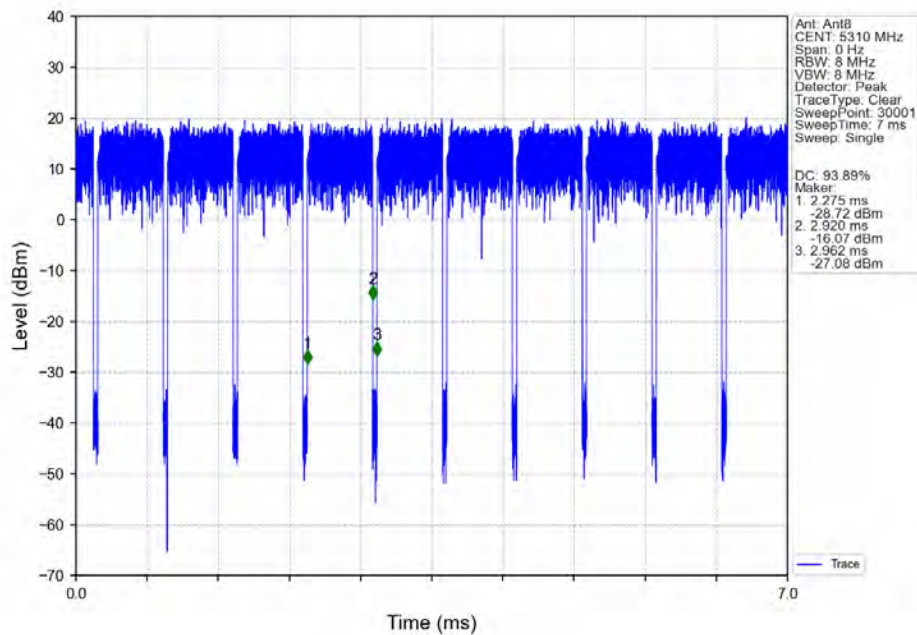
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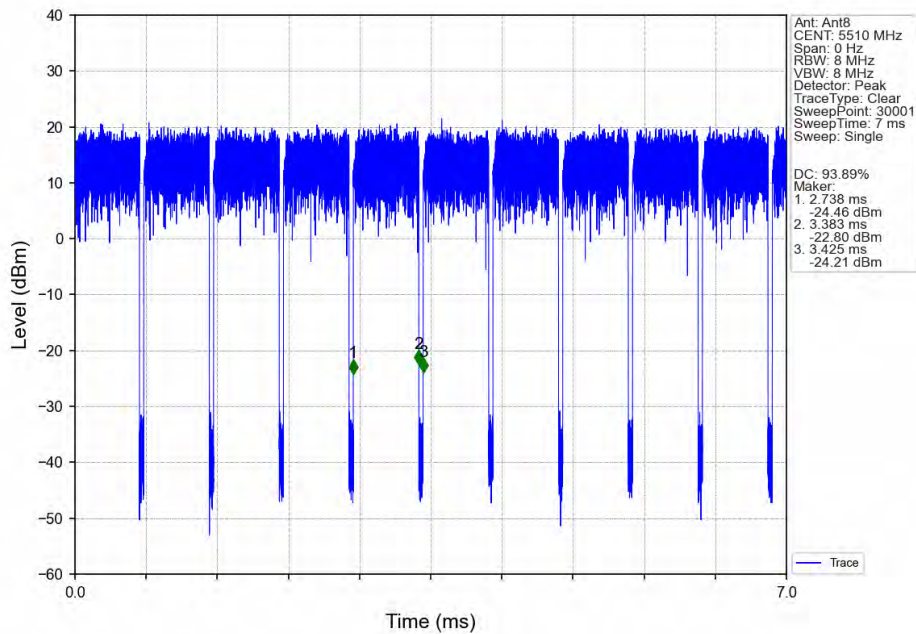
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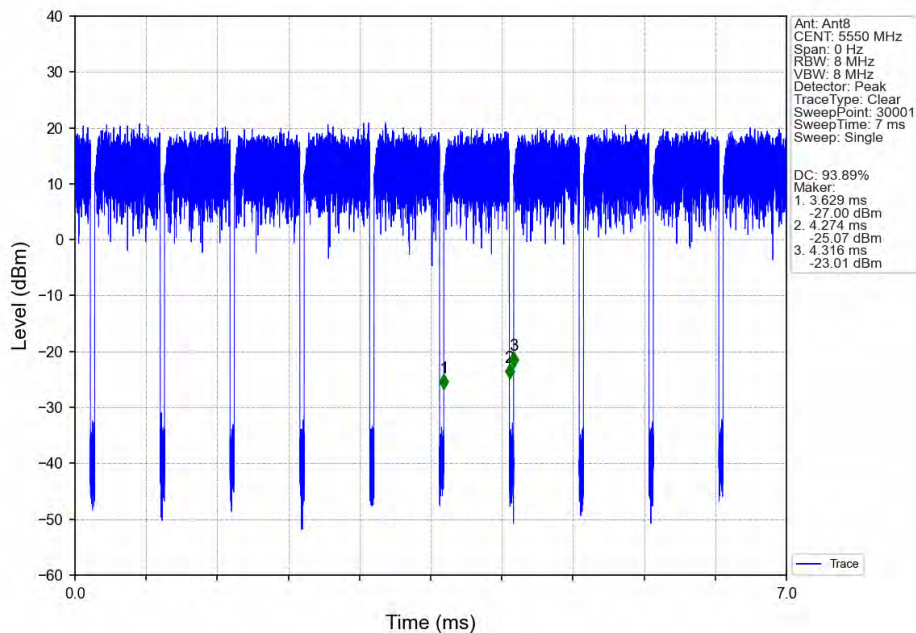
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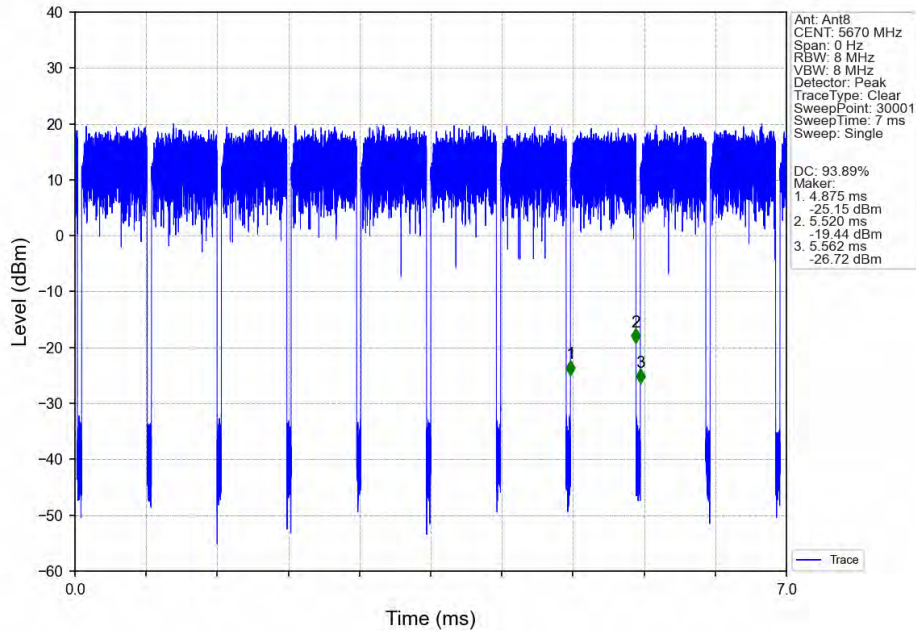
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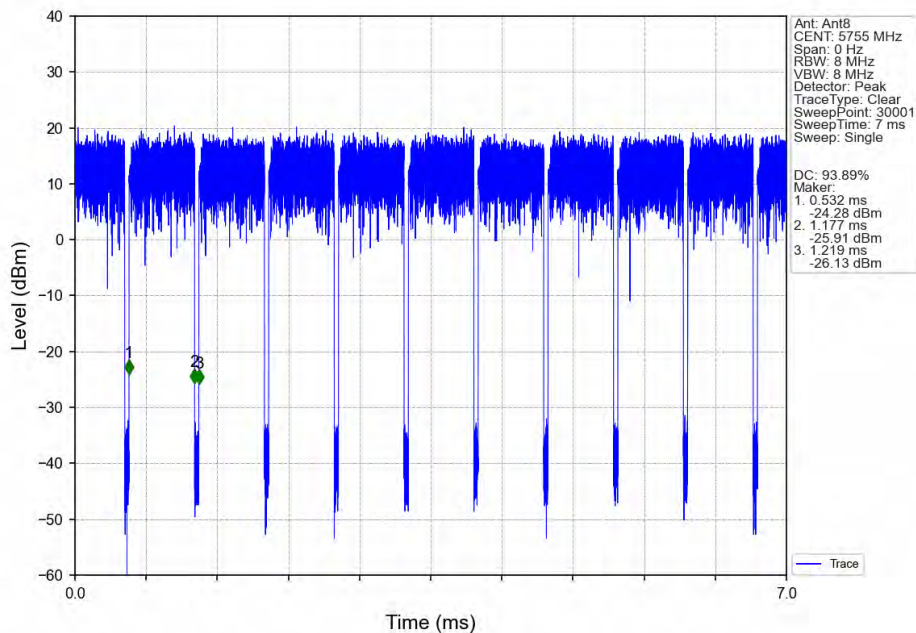
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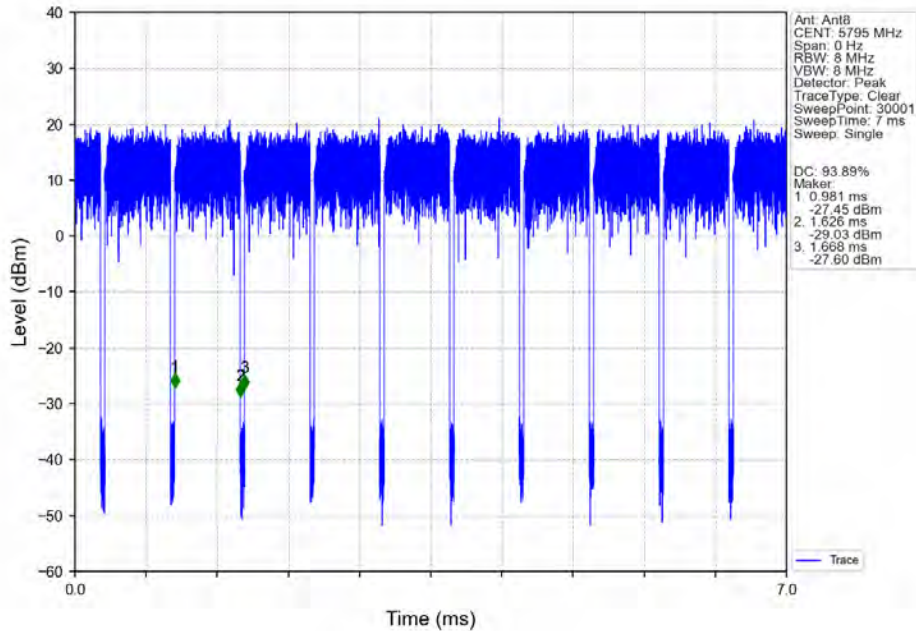
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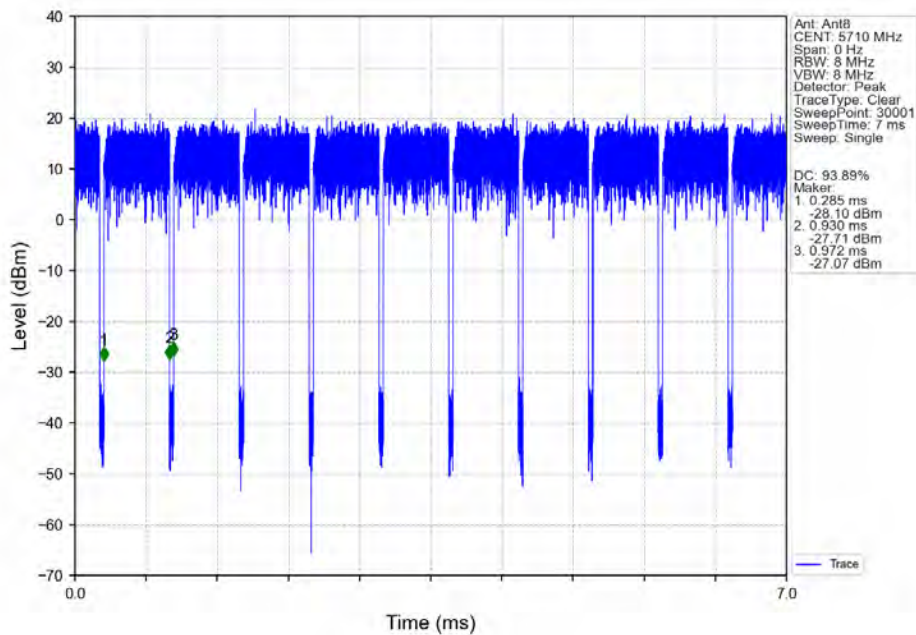
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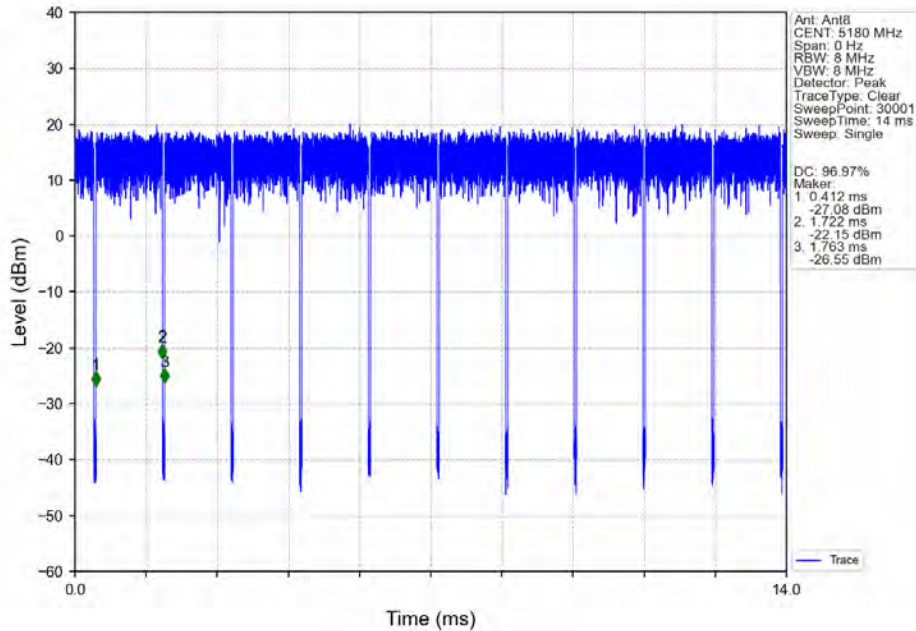
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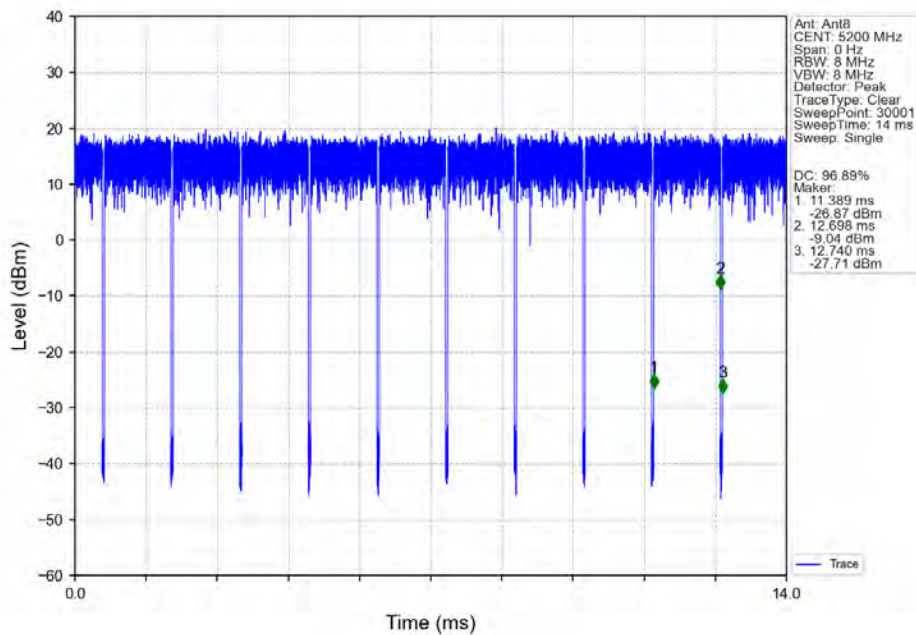
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802.11ac(VHT20)_LCH_5180MHz_Ant8_NTNV



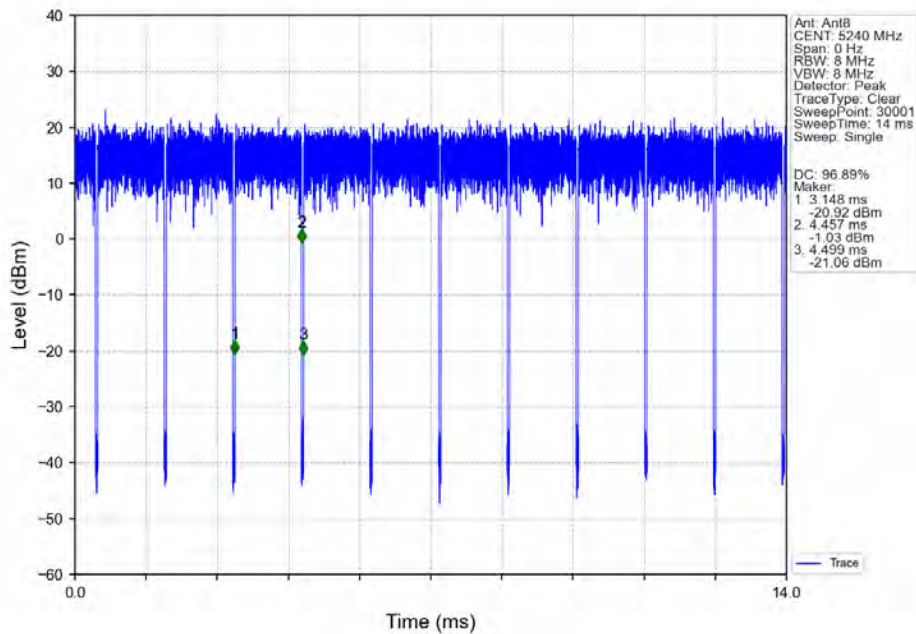
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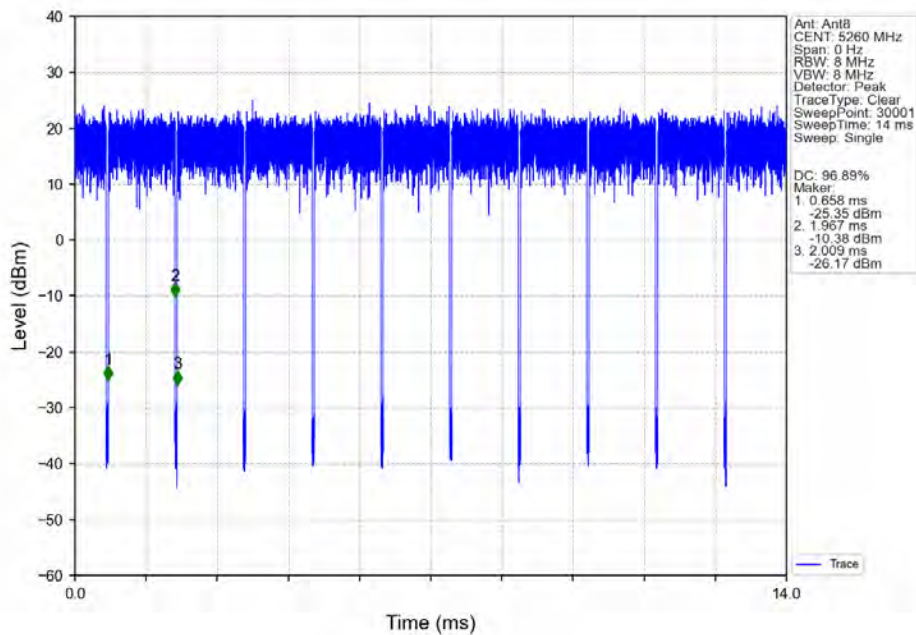
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802.11ac(VHT20)_HCH_5240MHz_Ant8_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant8_NTNV



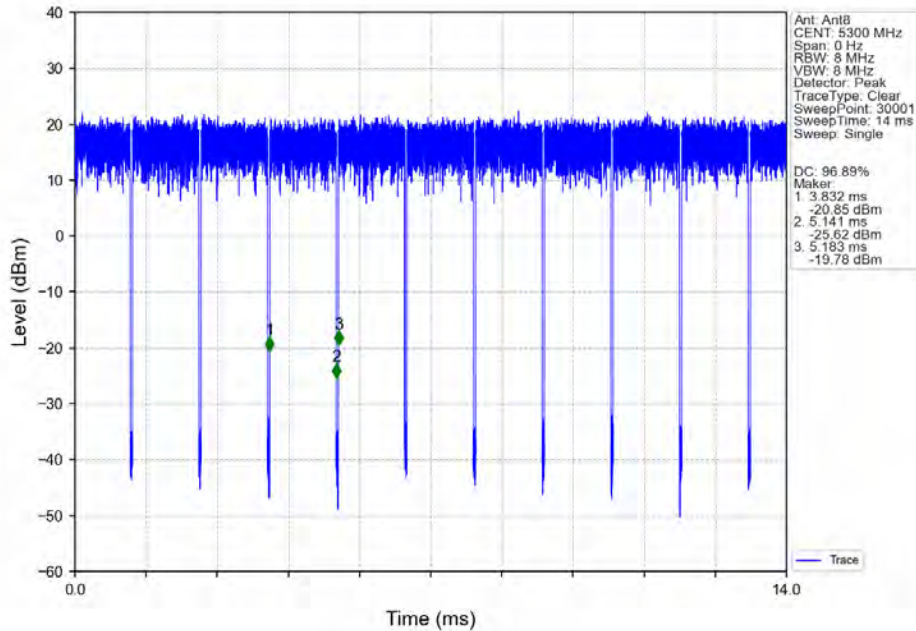
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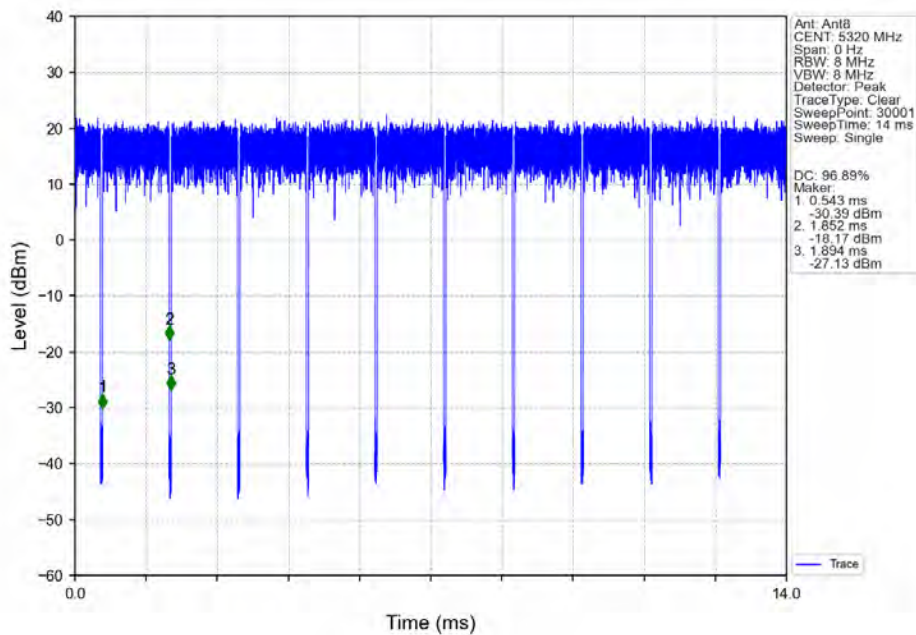
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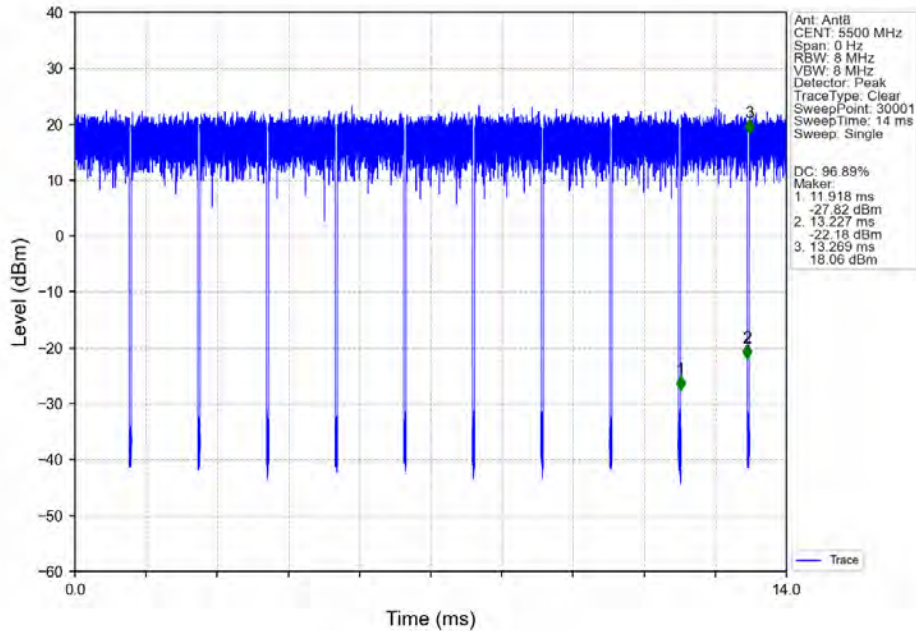
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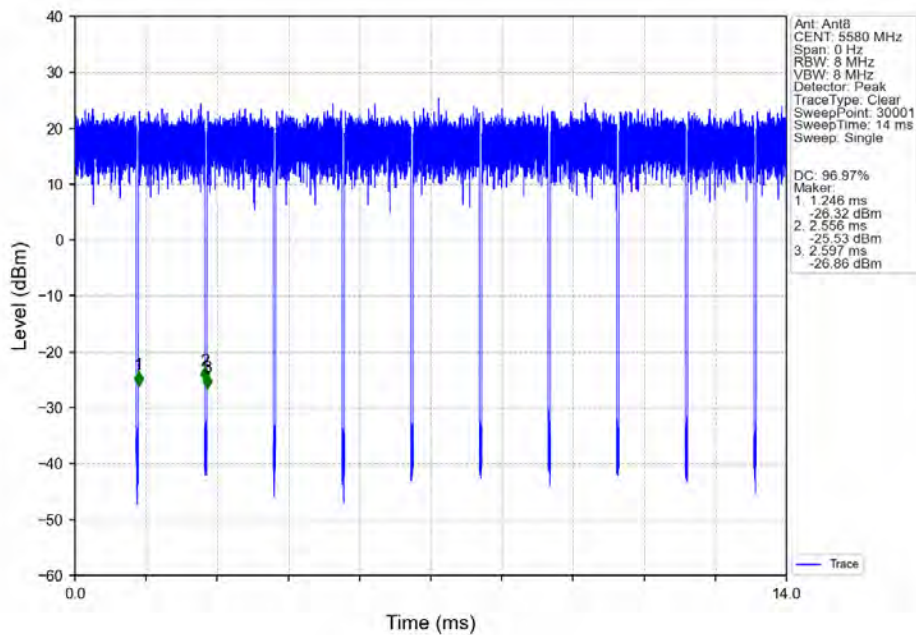
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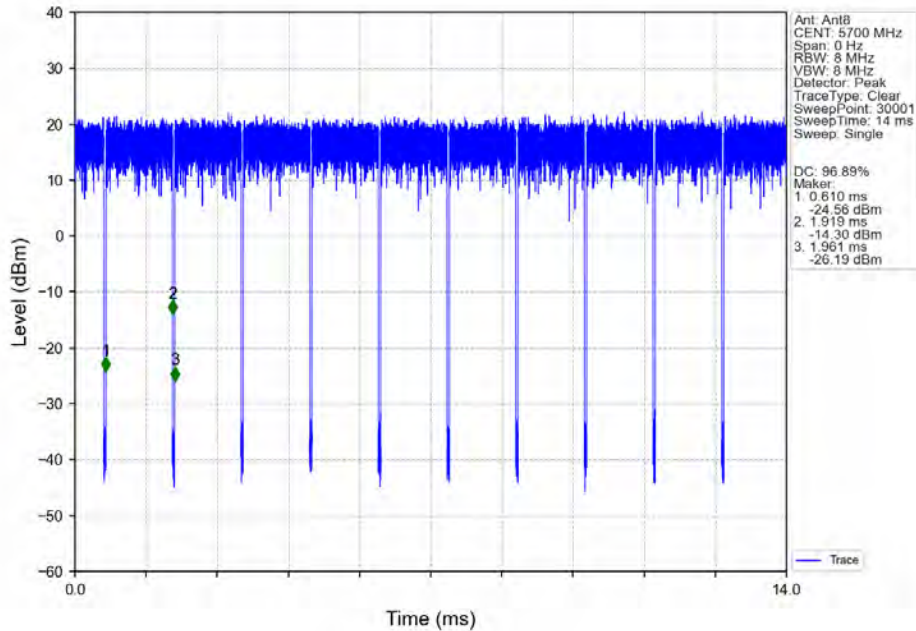
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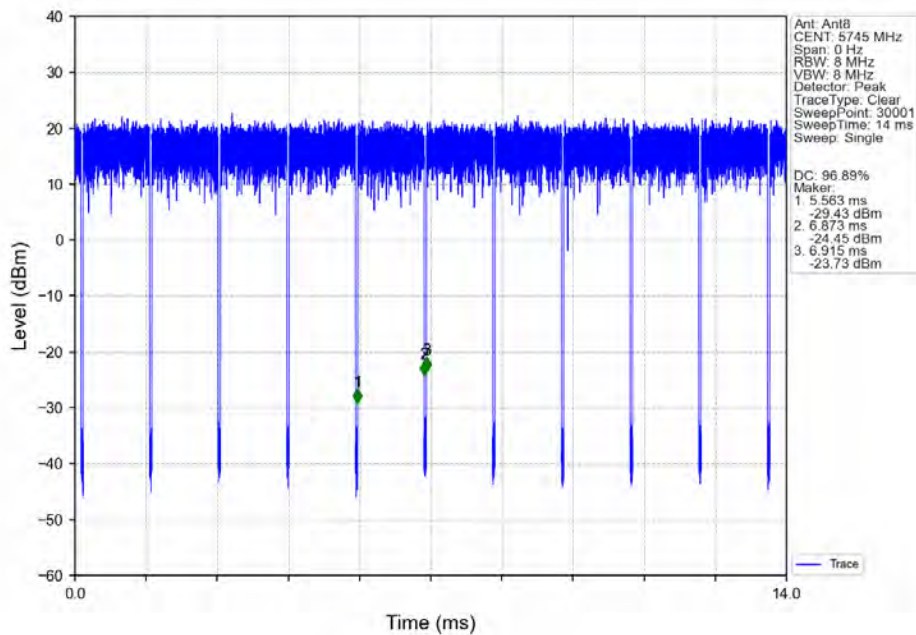
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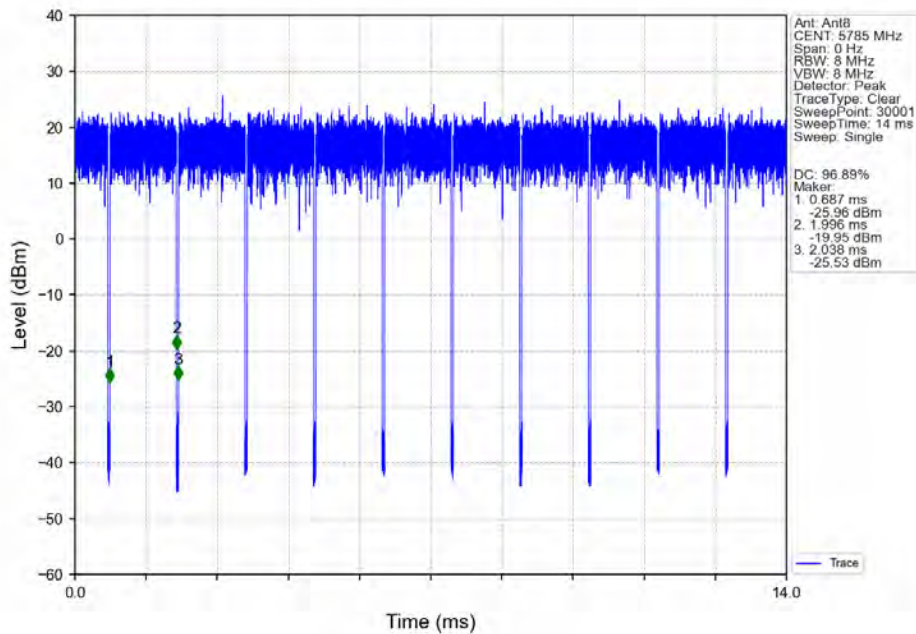
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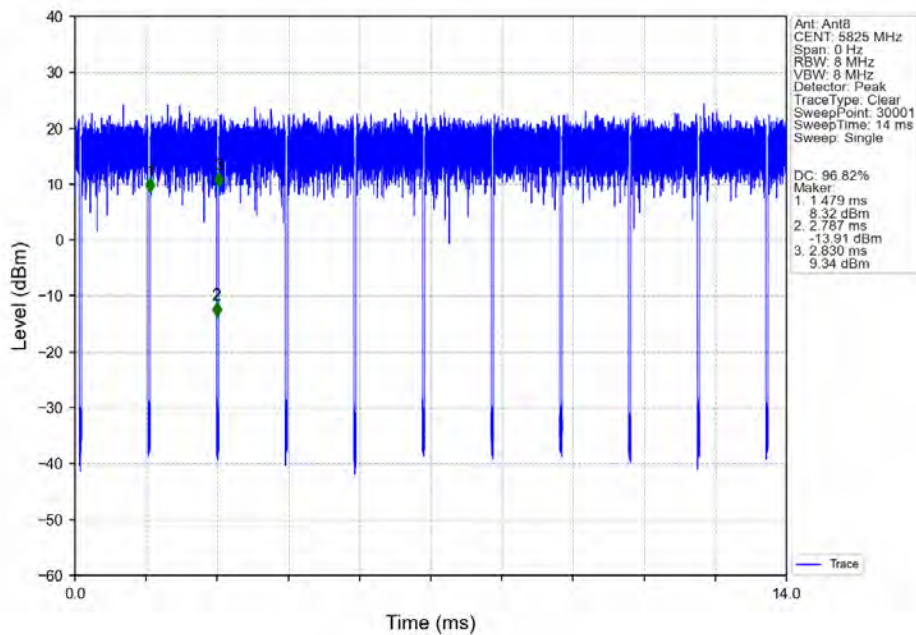
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802.11ac(VHT20)_MCH_5785MHz_Ant8_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant8_NTNV



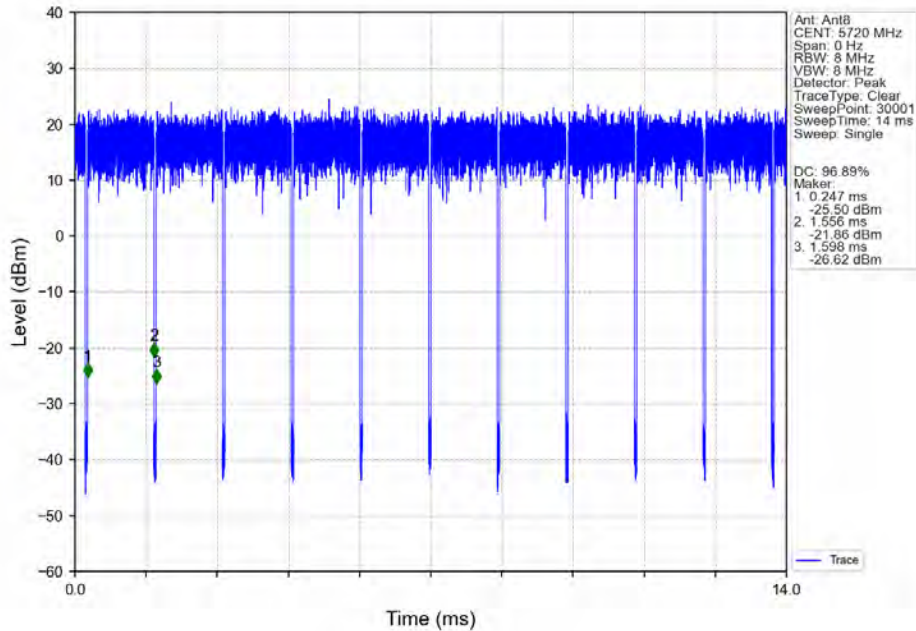
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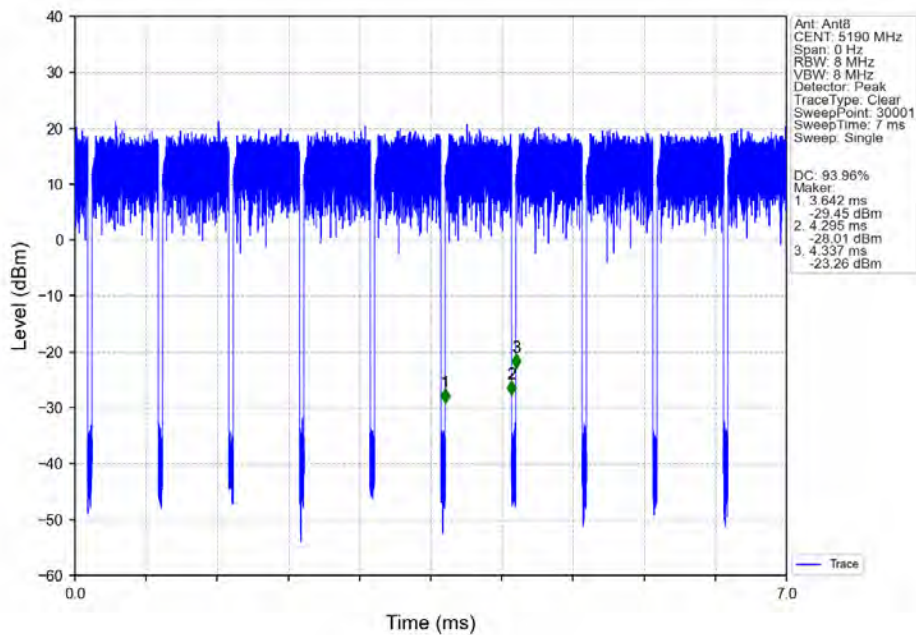
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802.11ac(VHT20)_HCH_5720MHz_Ant8_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant8_NTNV



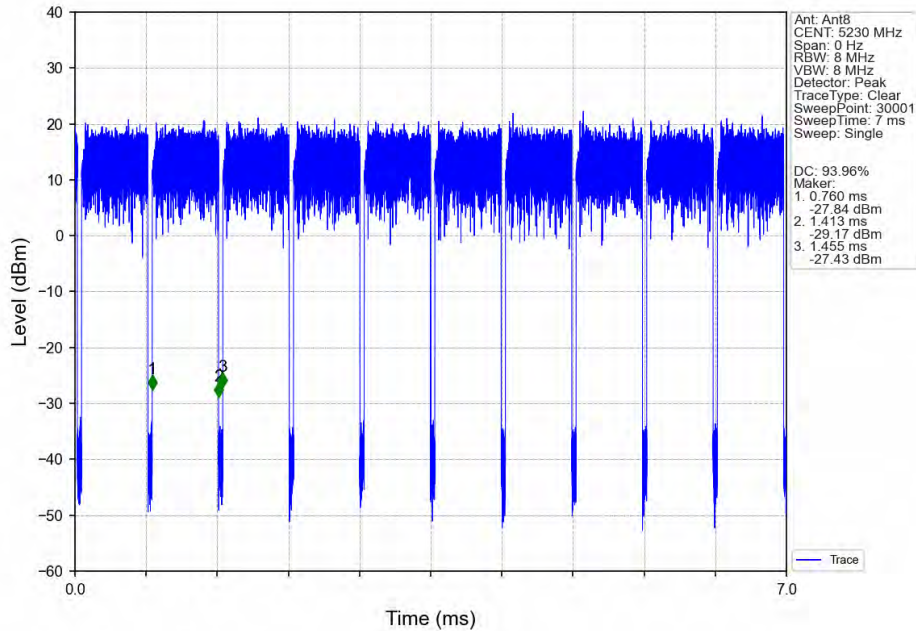
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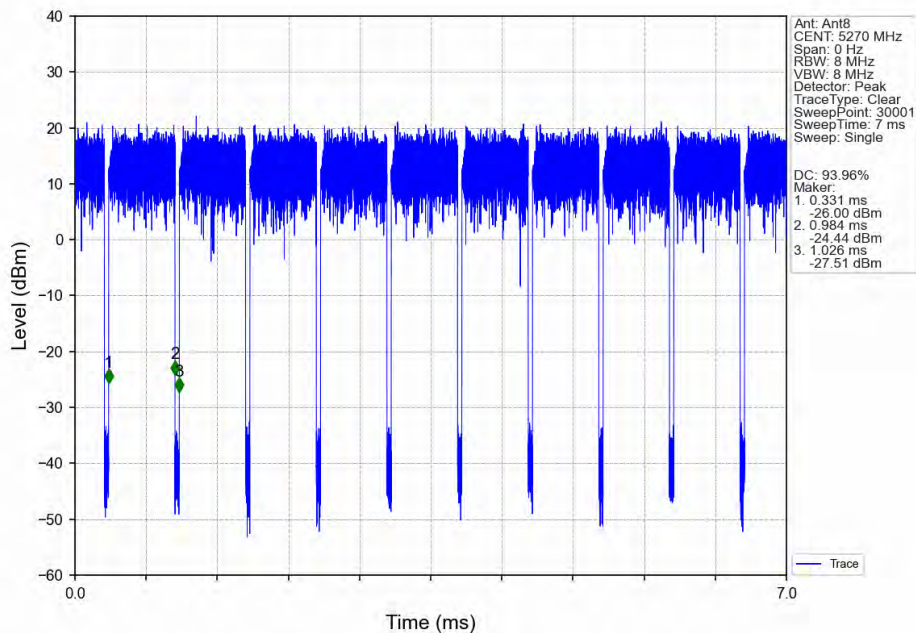
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802.11ac(VHT40)_HCH_5230MHz_Ant8_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant8_NTNV



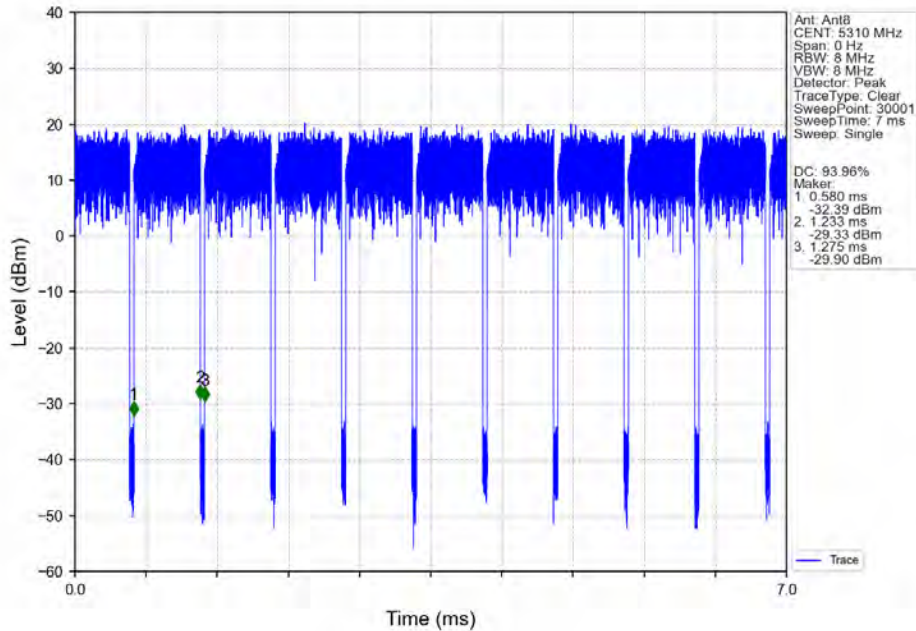
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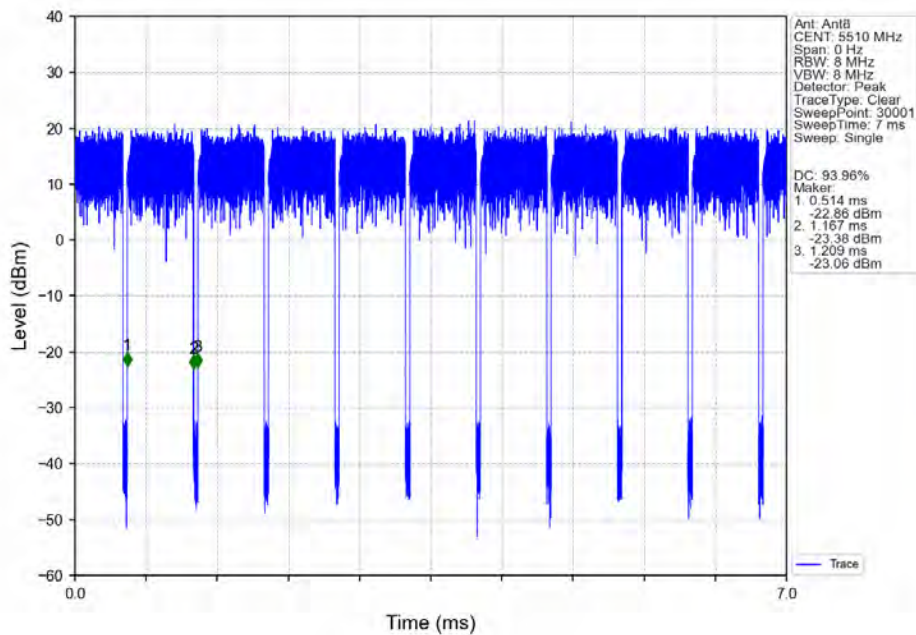
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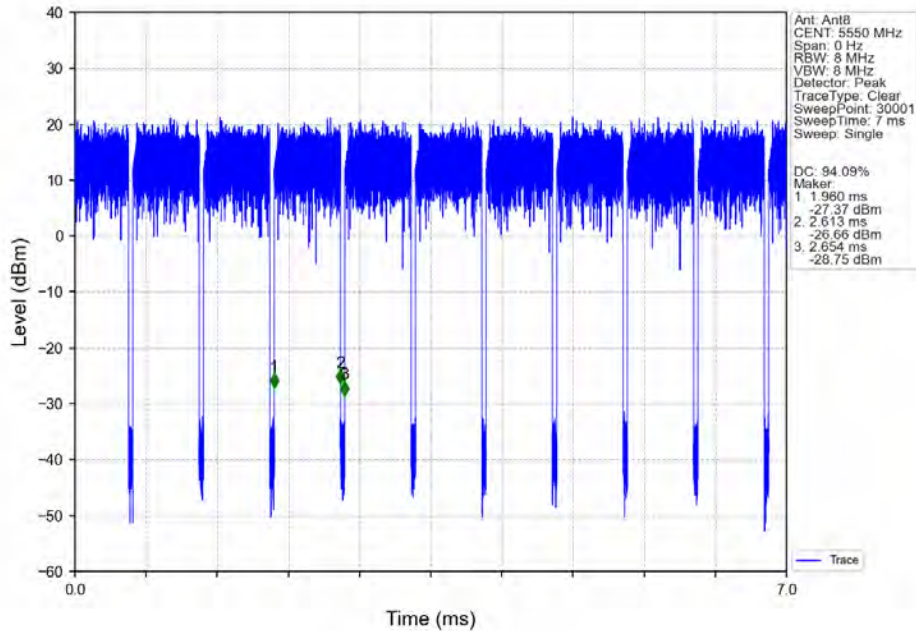
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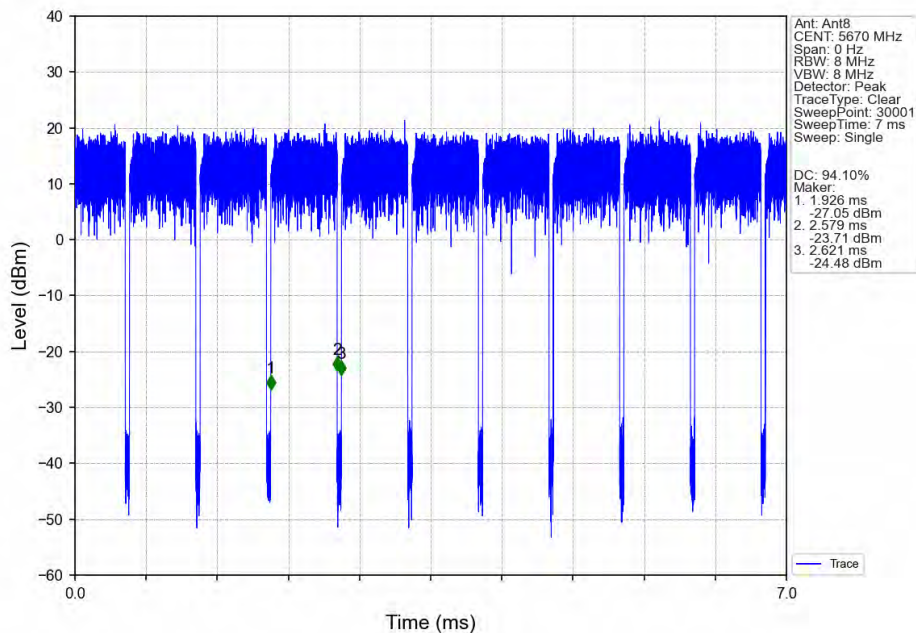
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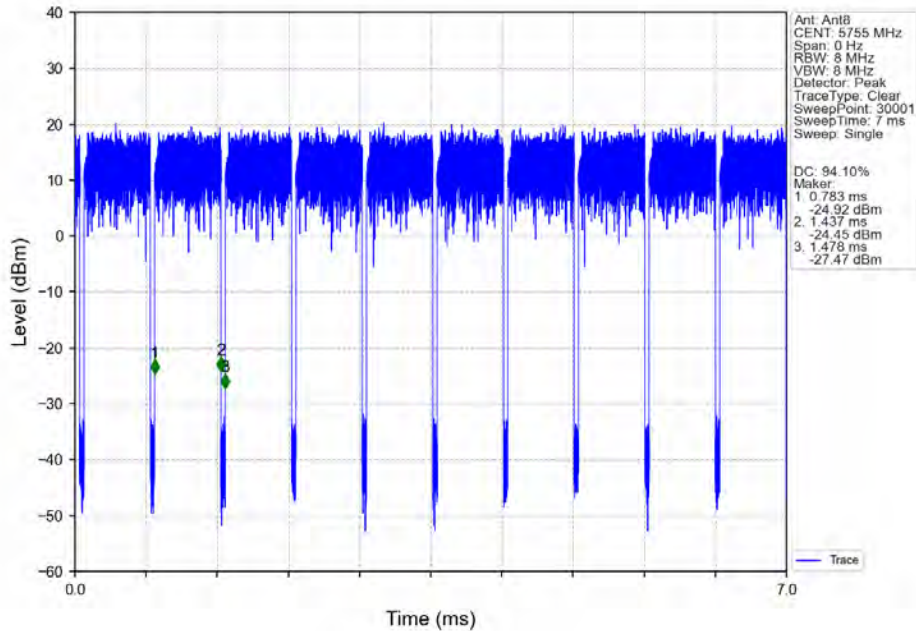
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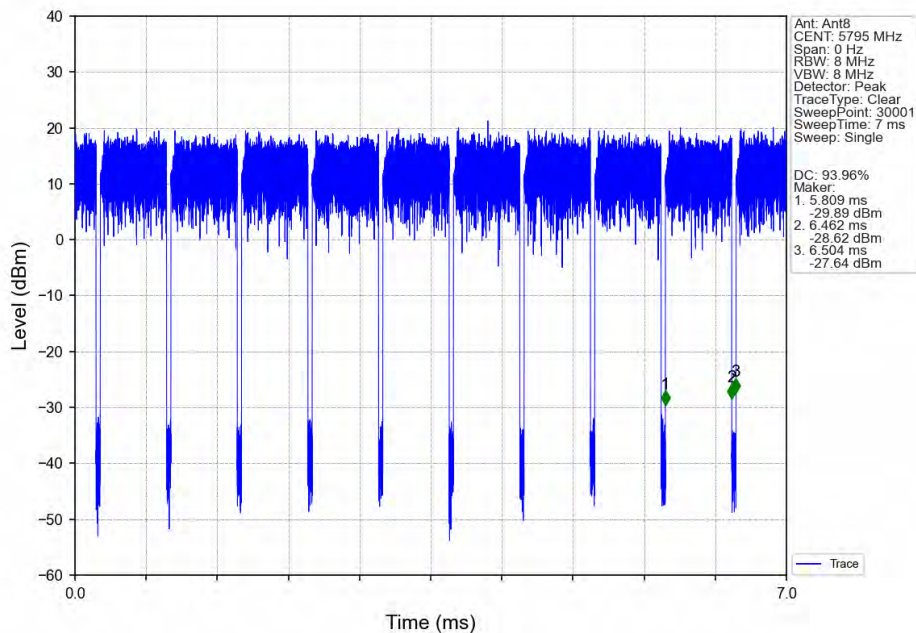
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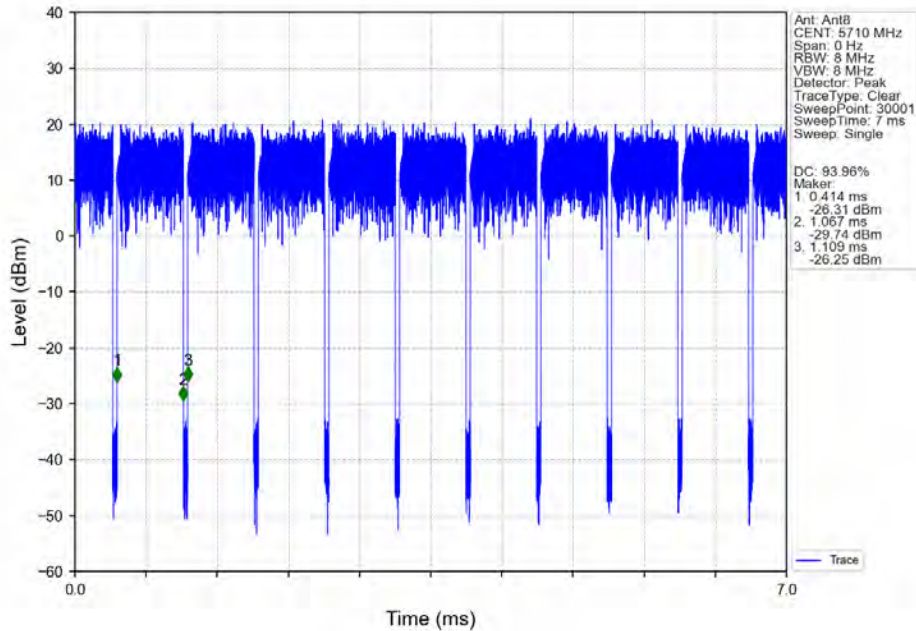
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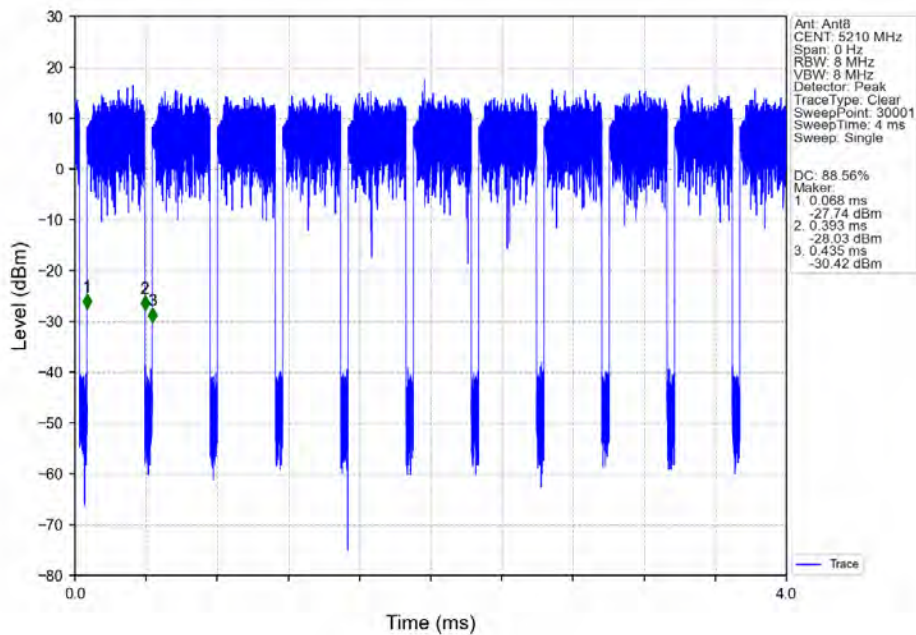
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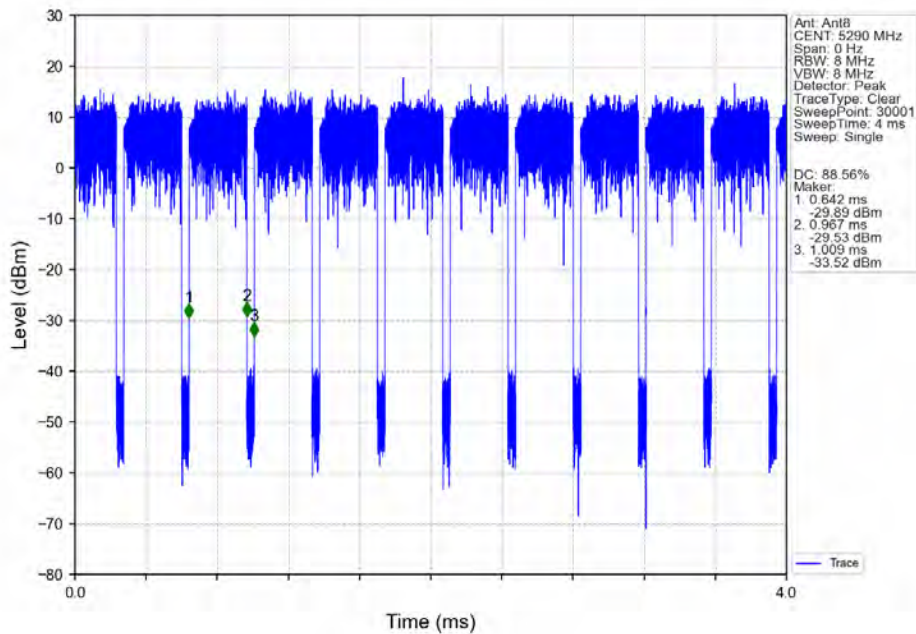
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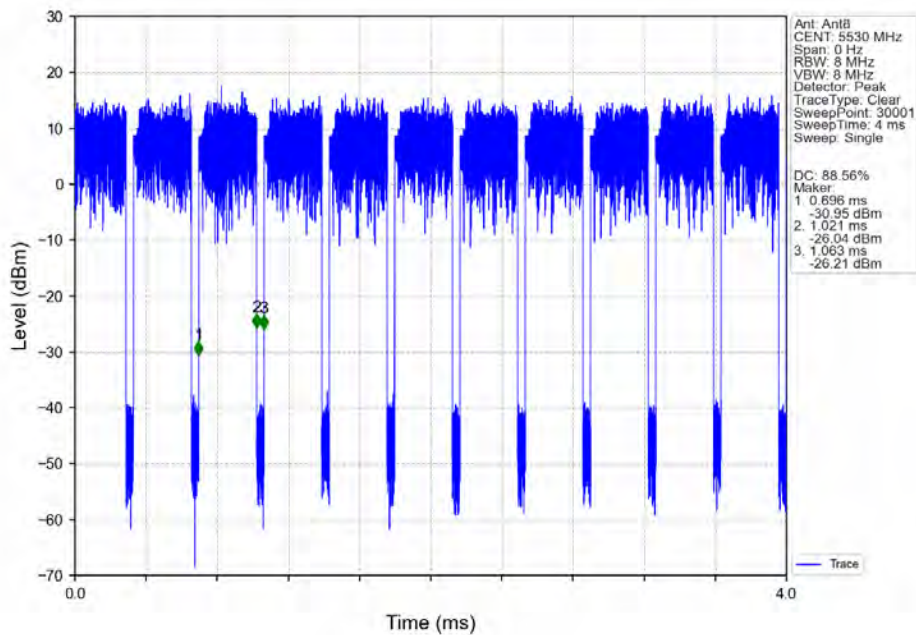
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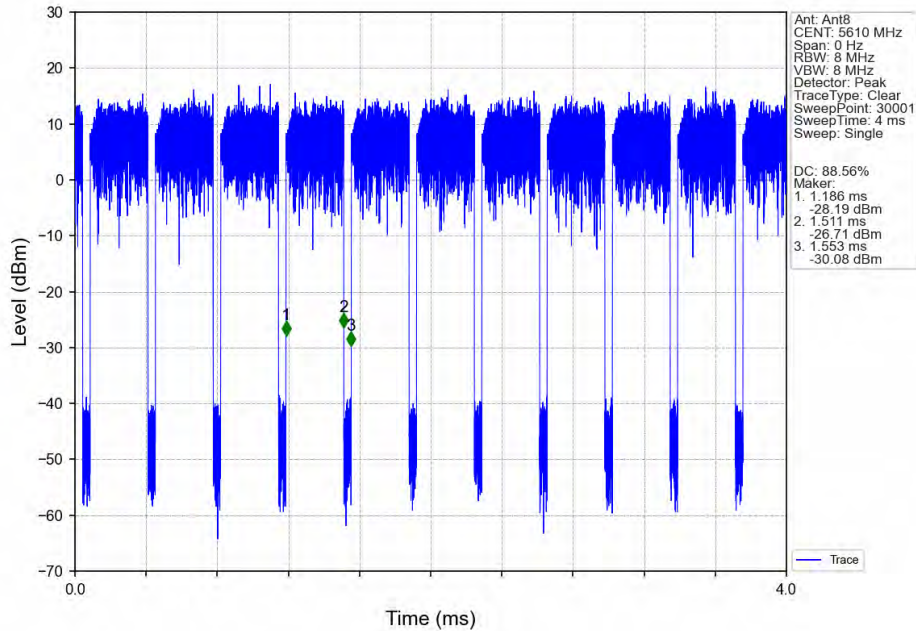
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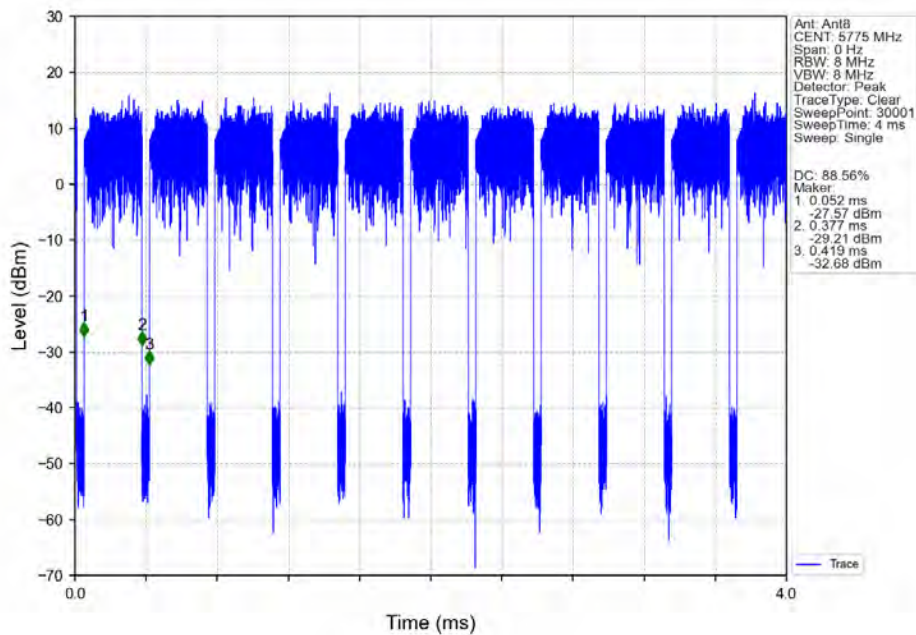
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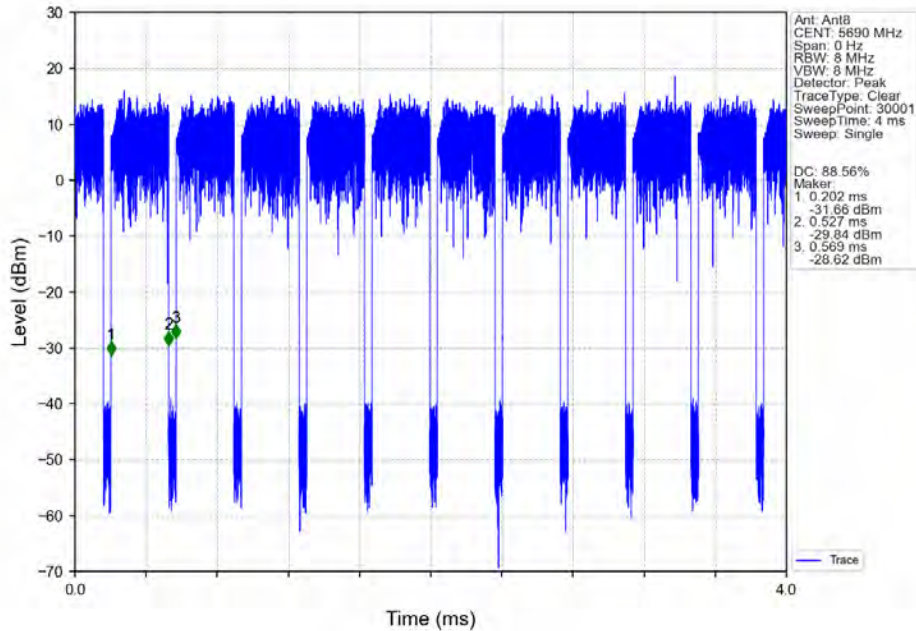
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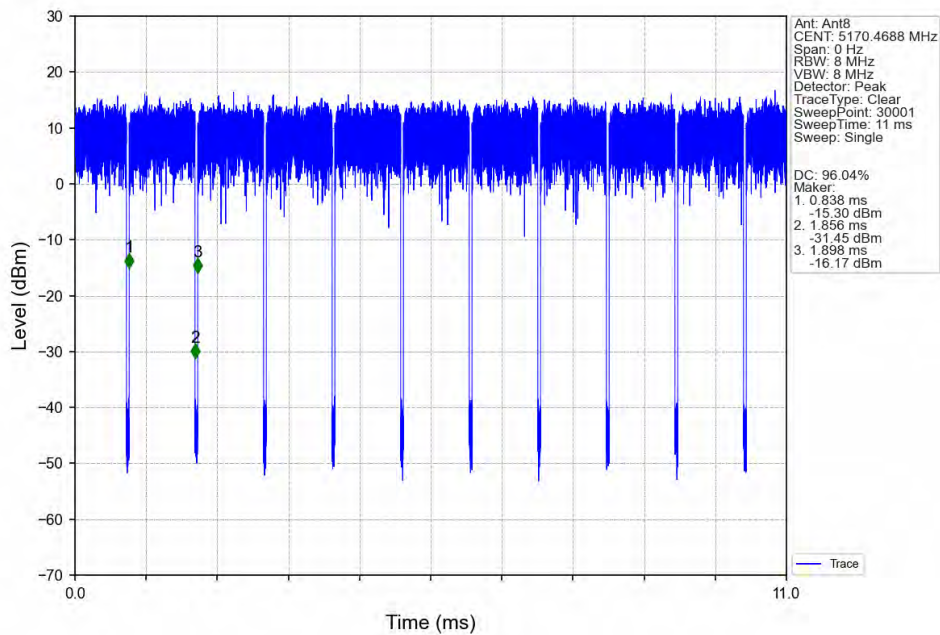
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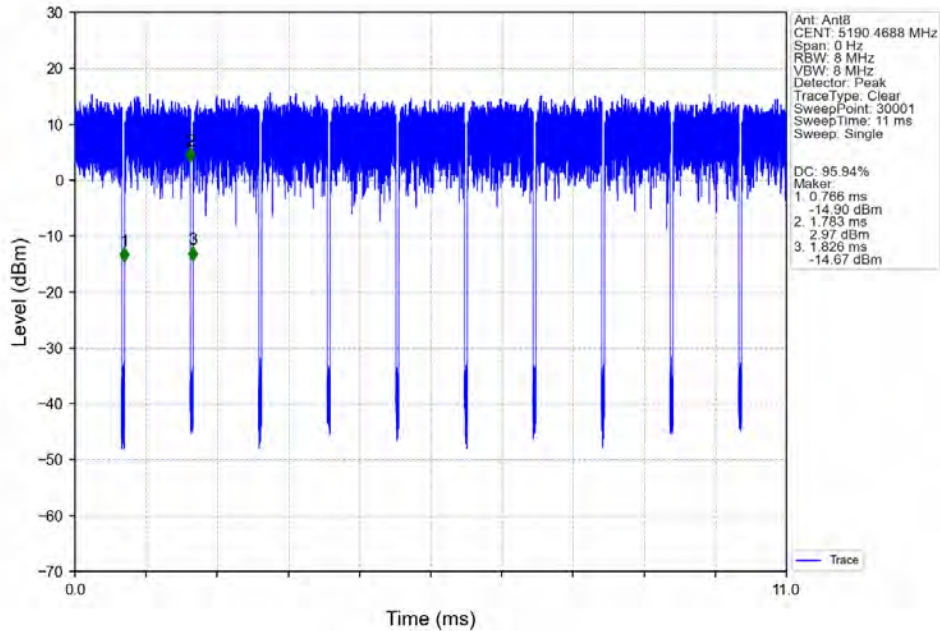
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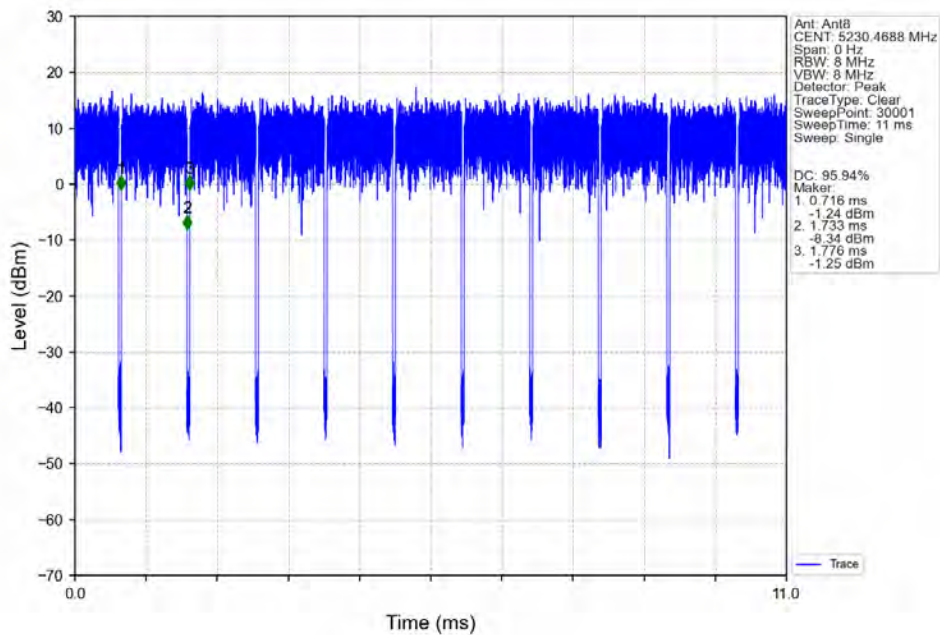
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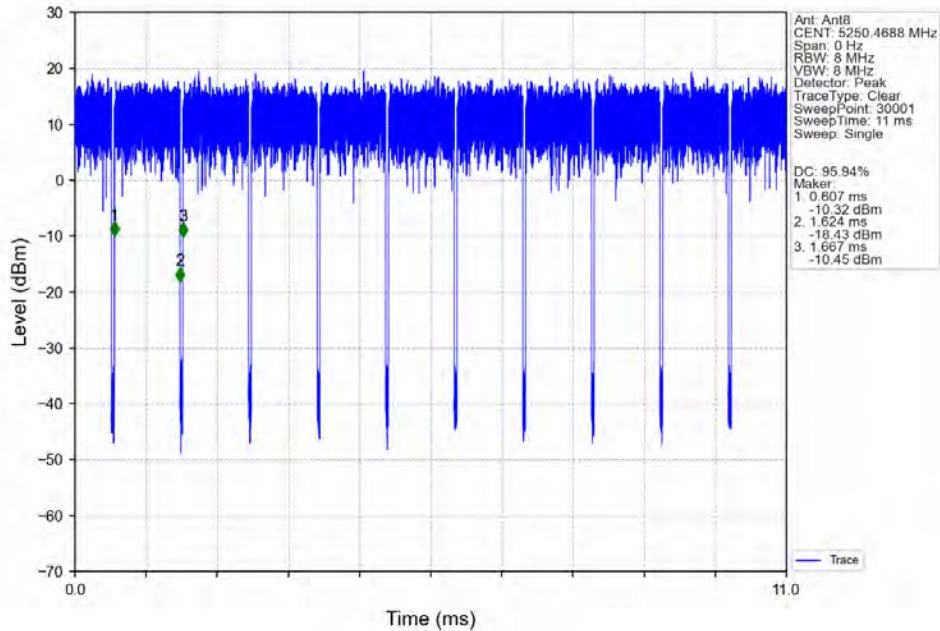
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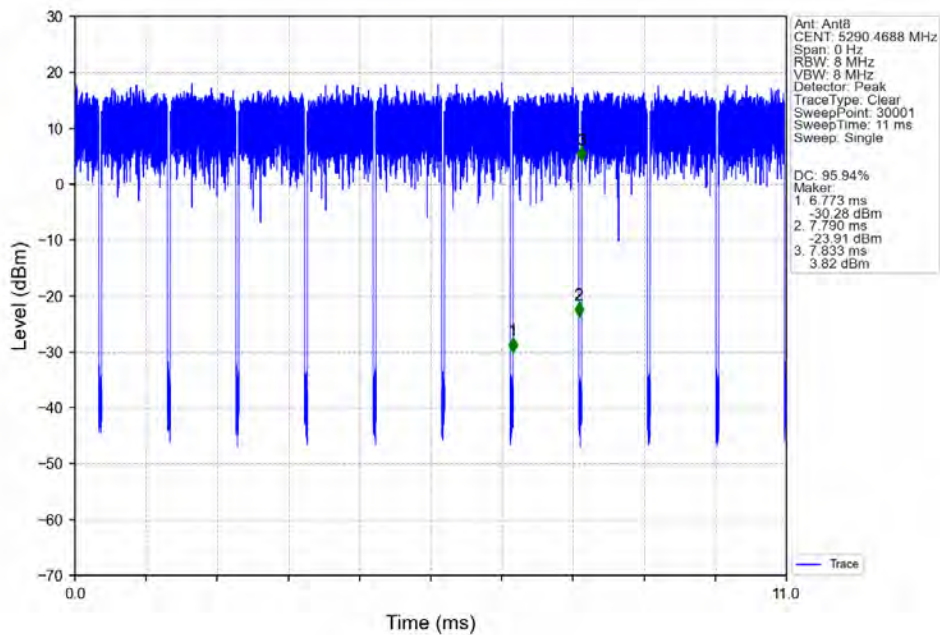
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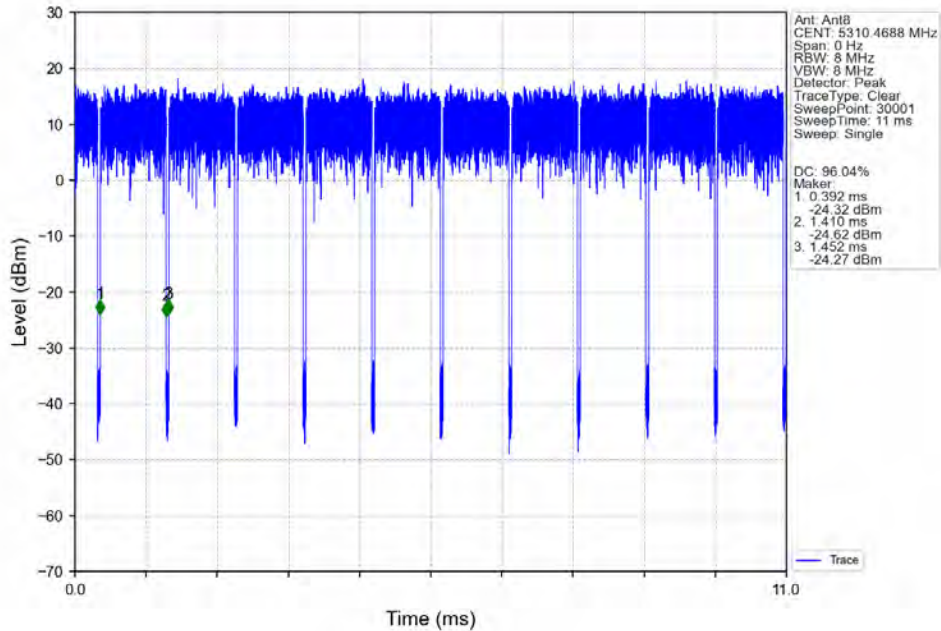
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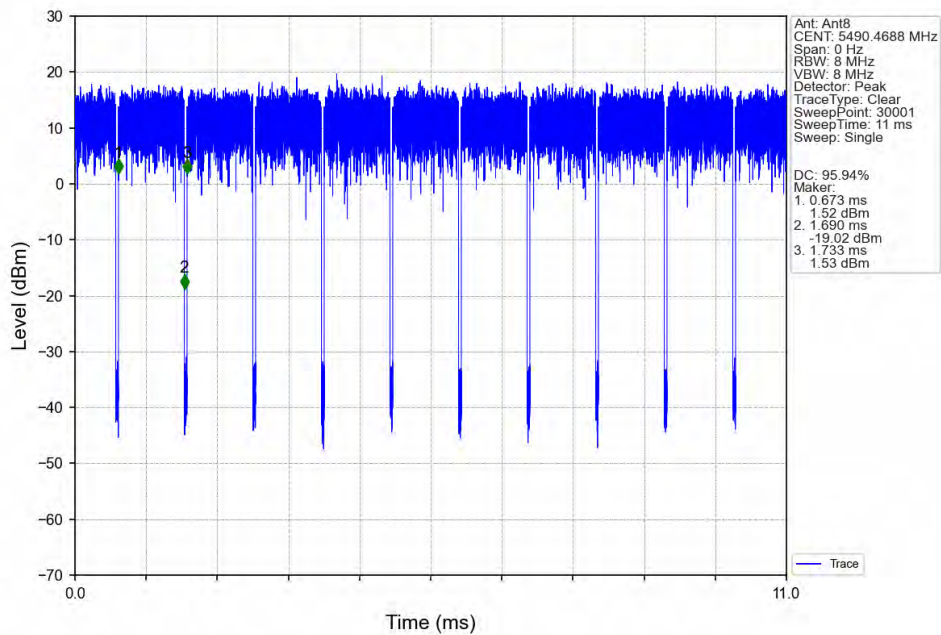
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802.11ax(HEW20)_HCH_5320MHz_SU_/_Ant8_NTNV



802.11ax(HEW20)_LCH_5500MHz_SU_/_Ant8_NTNV



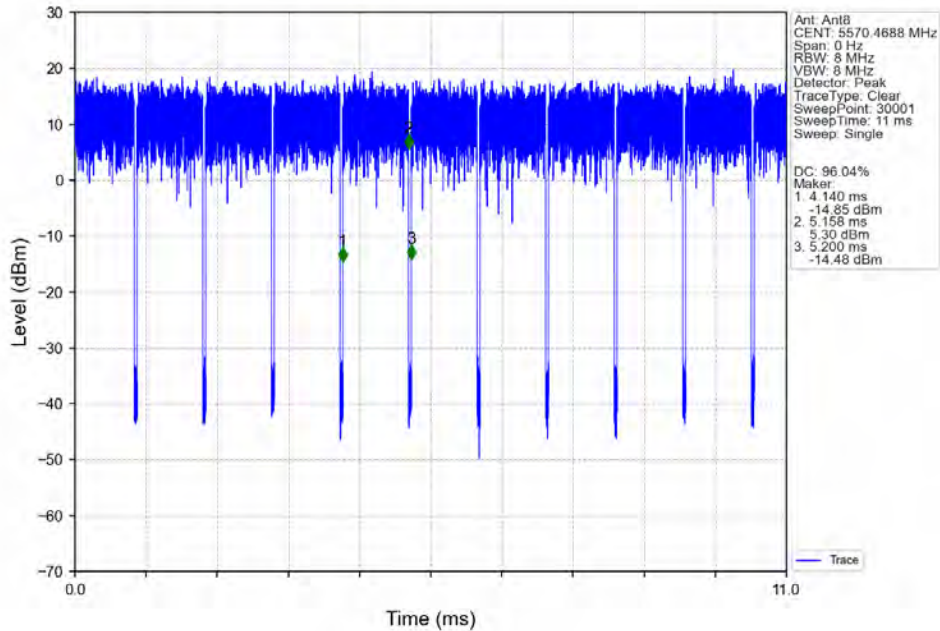
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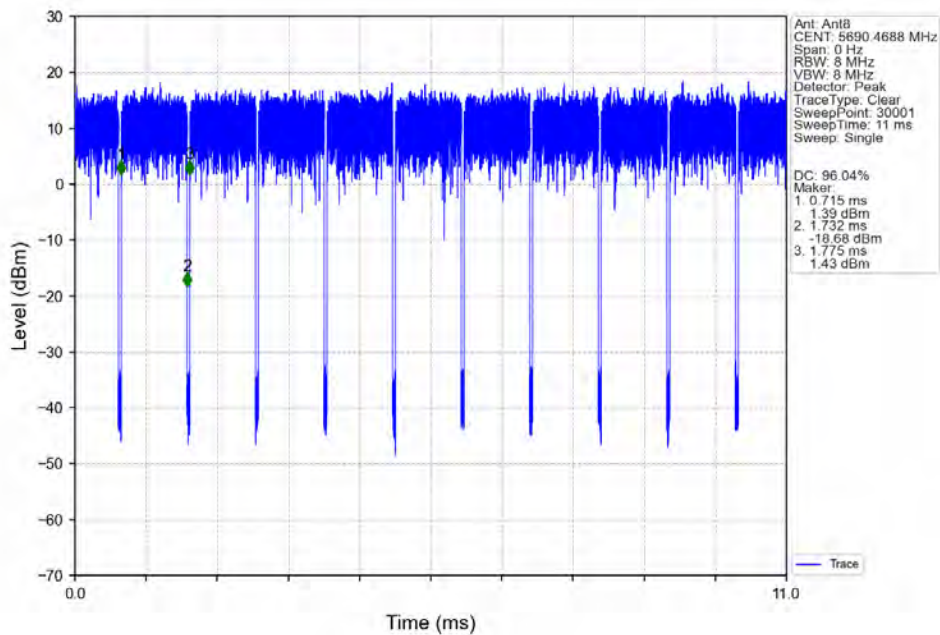
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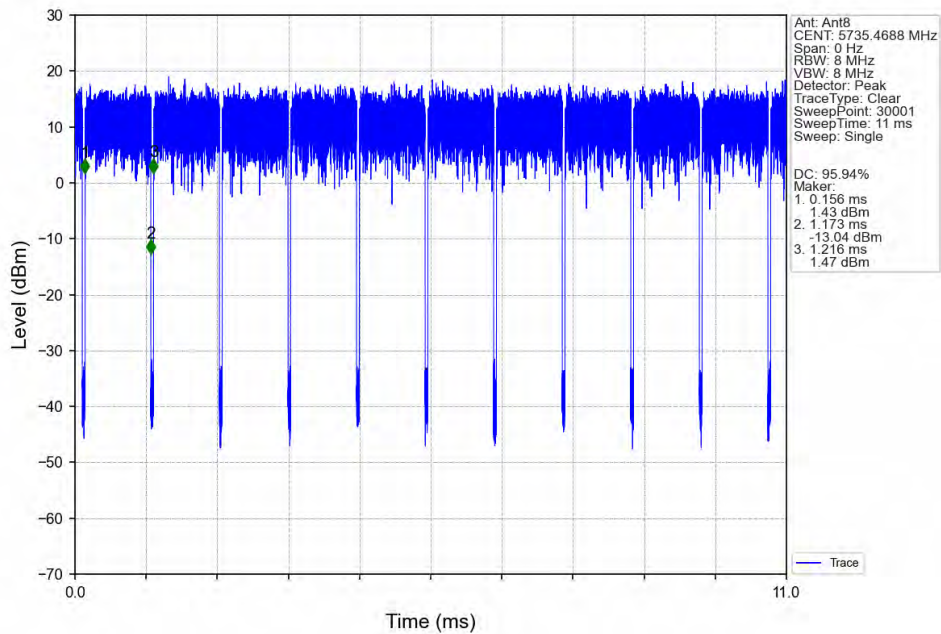
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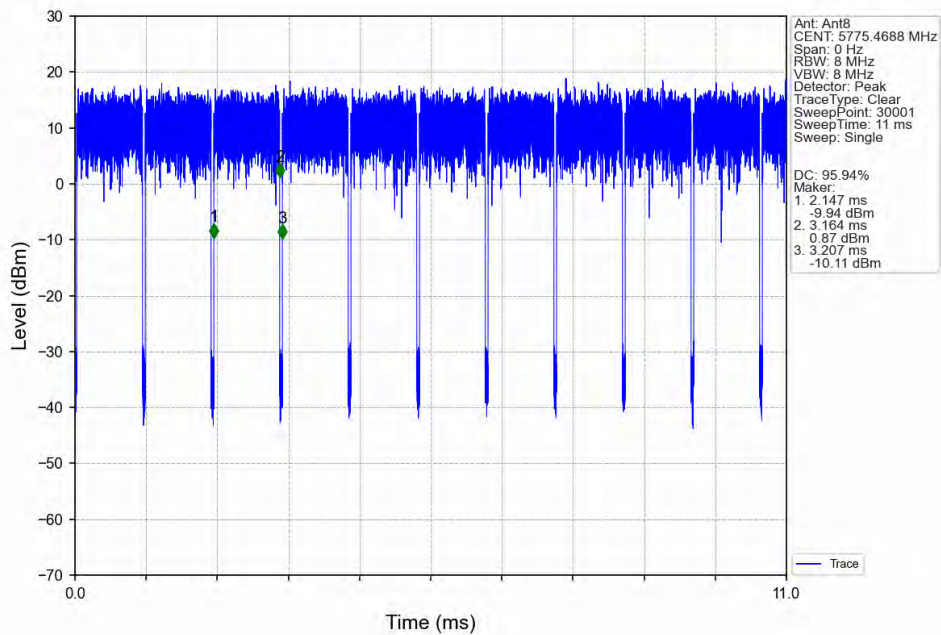
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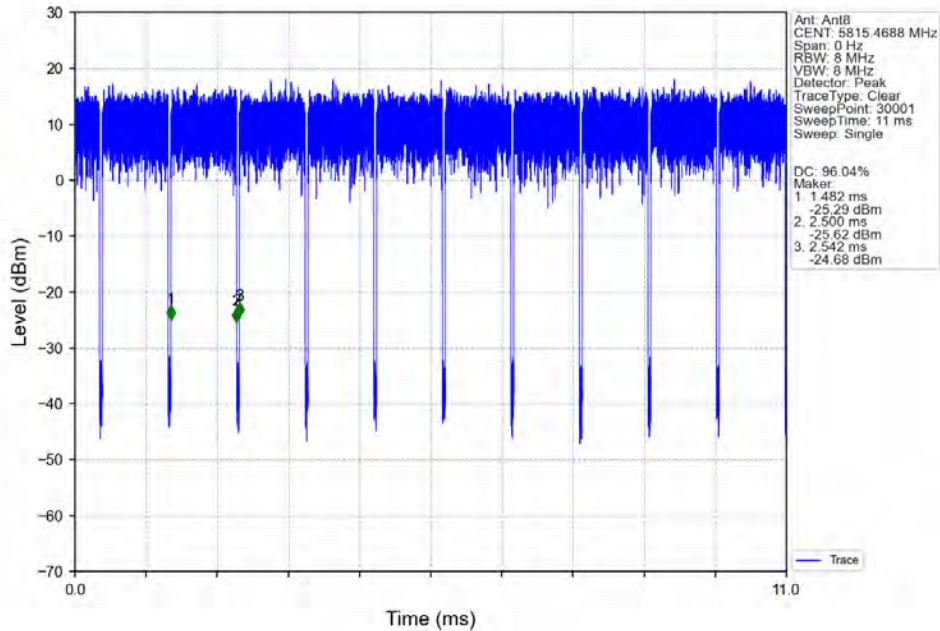
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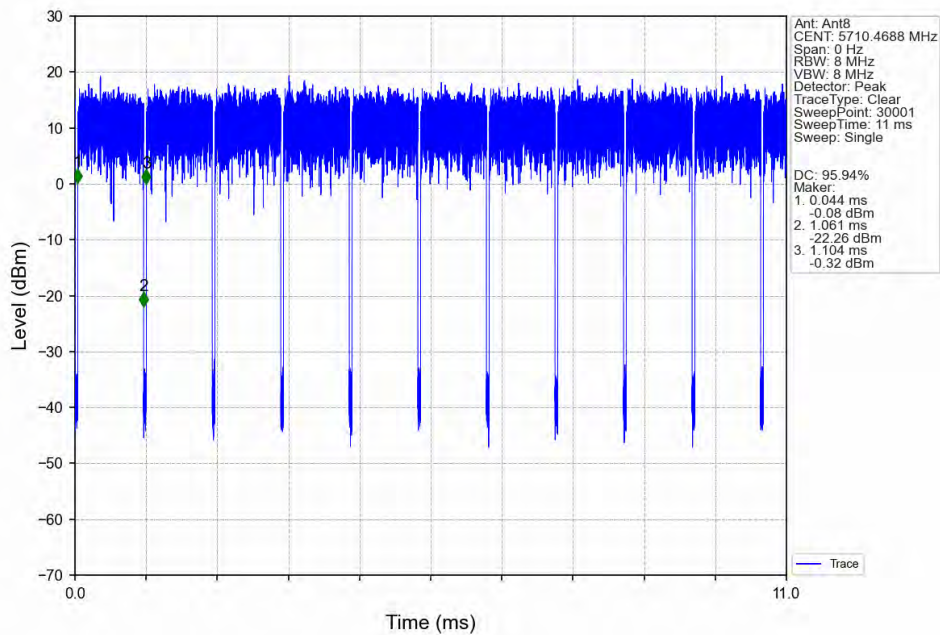
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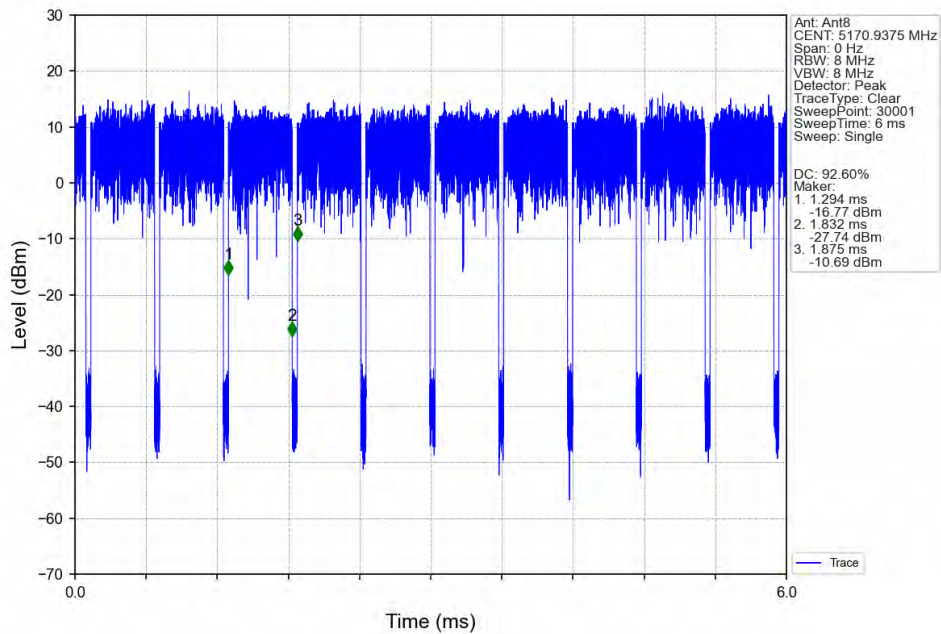
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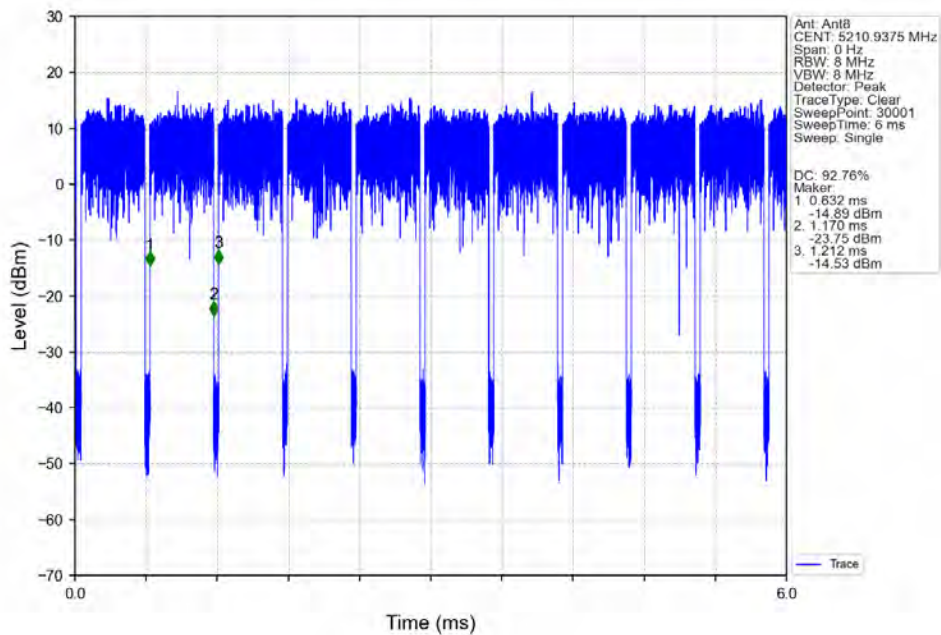
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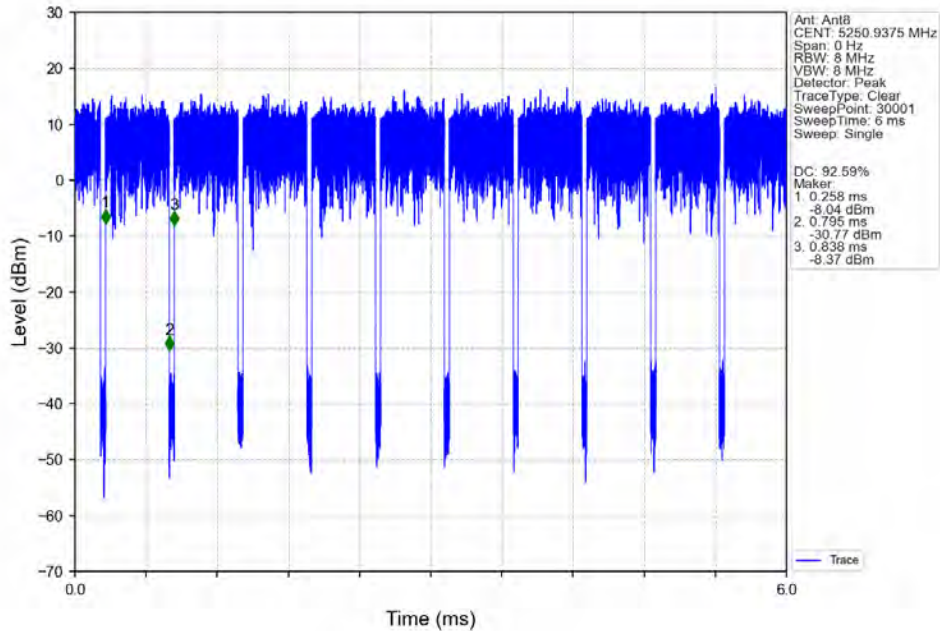
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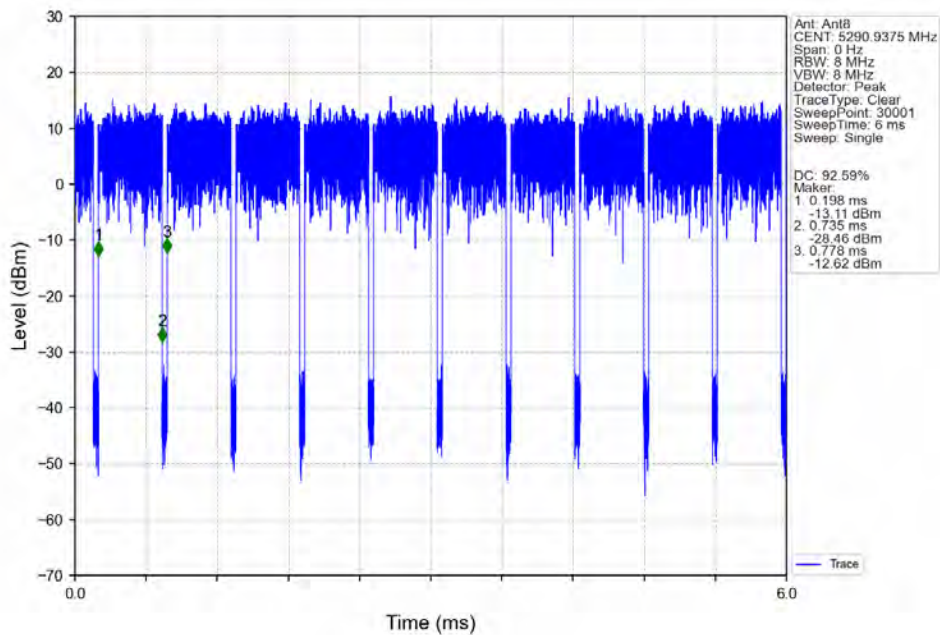
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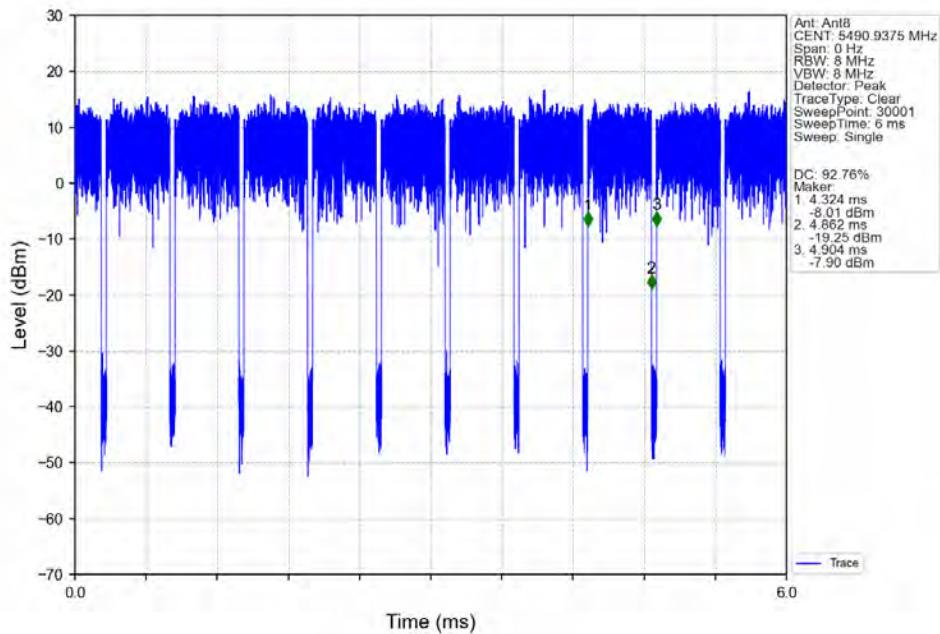
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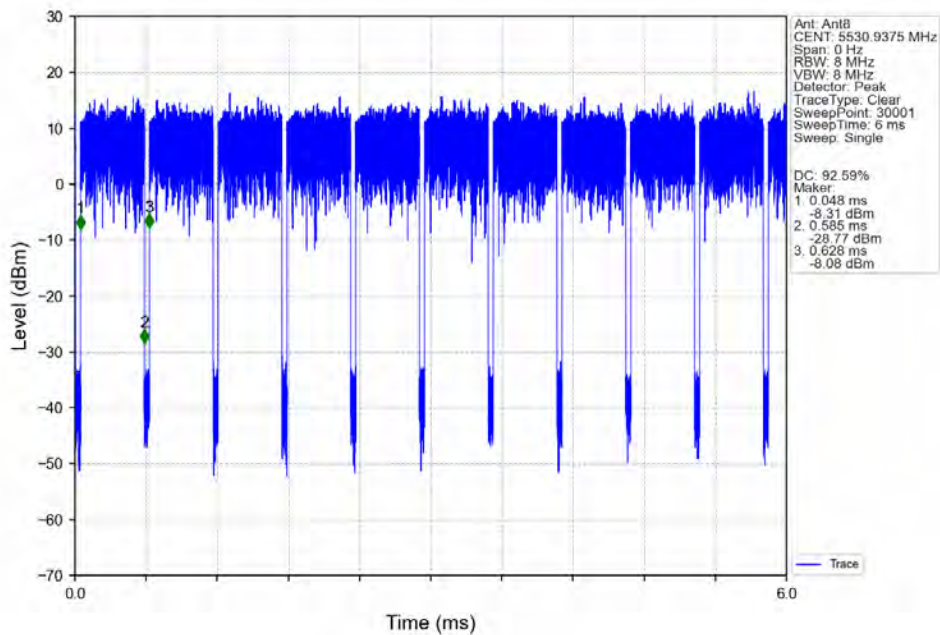
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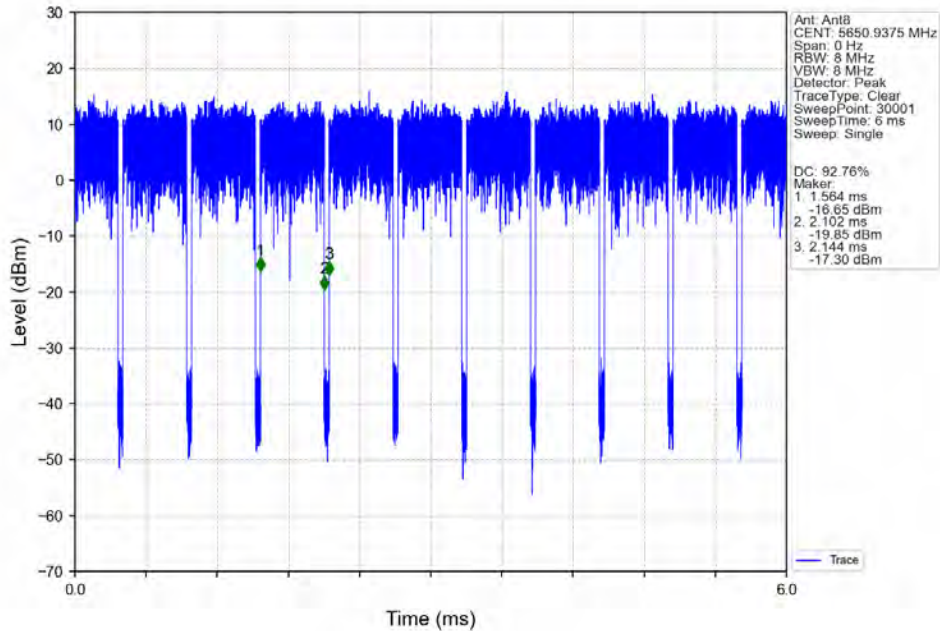
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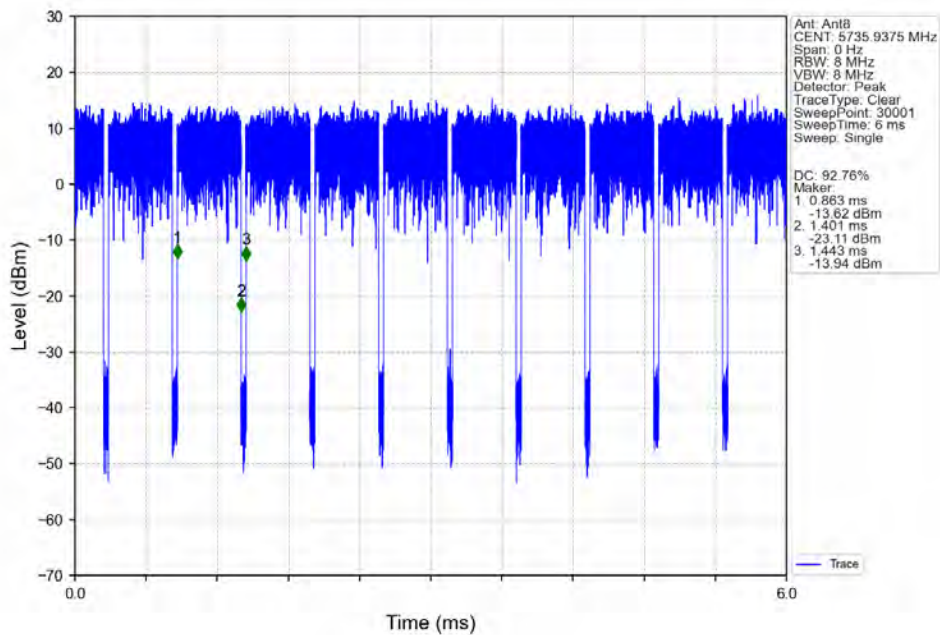
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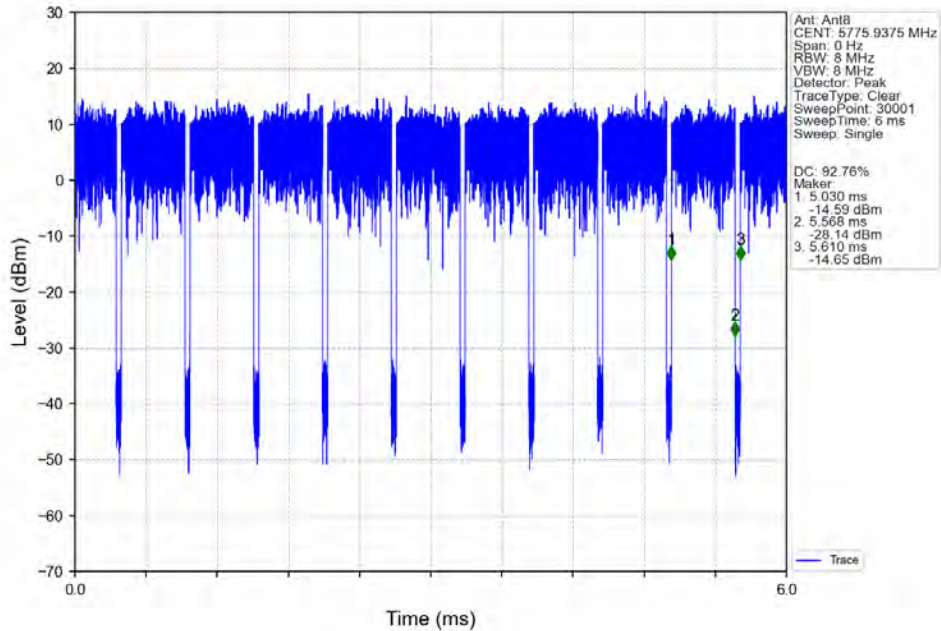
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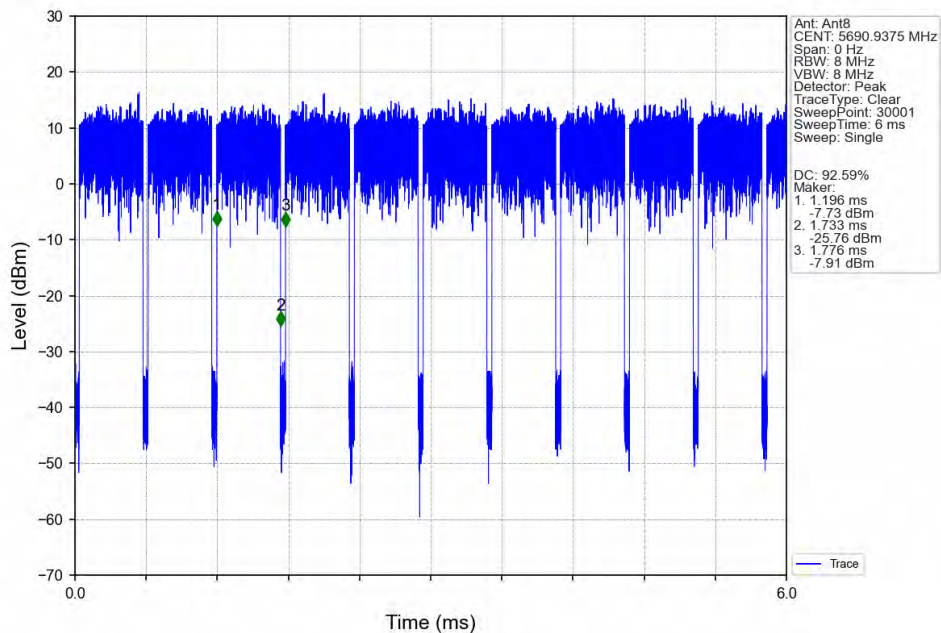
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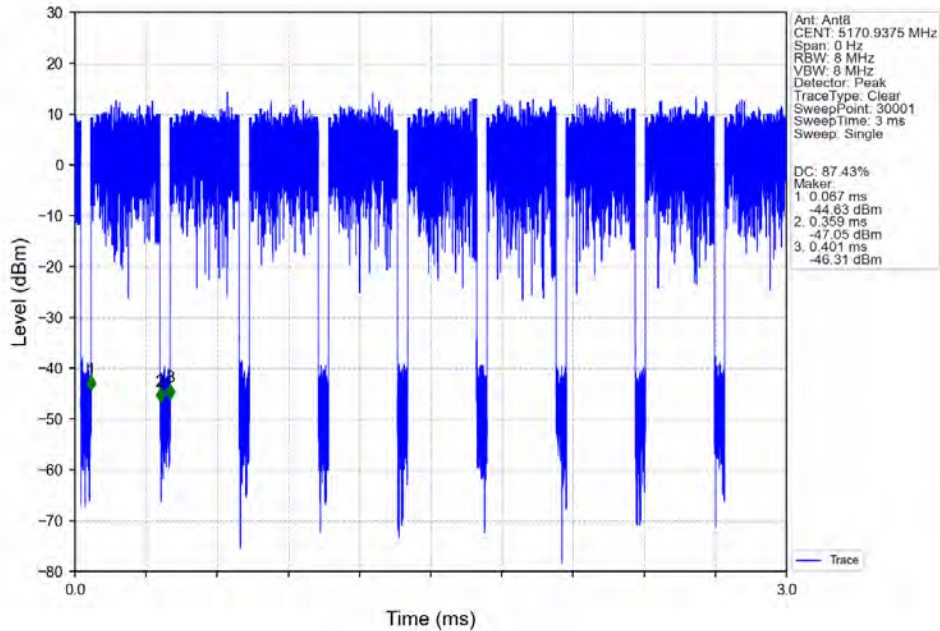
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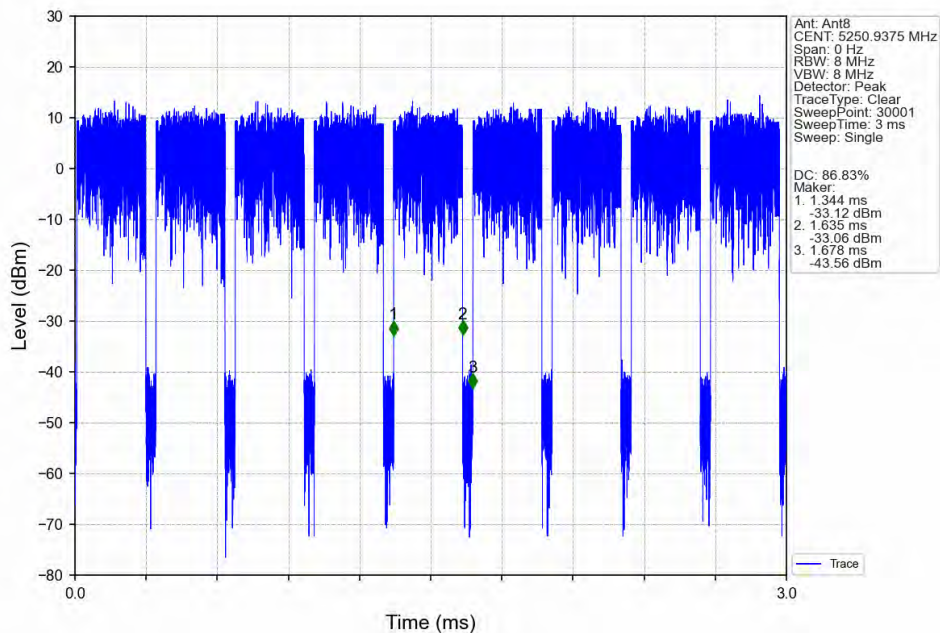
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802.11ax(HEW80)_MCH_5290MHz_SU_/_Ant8_NTNV



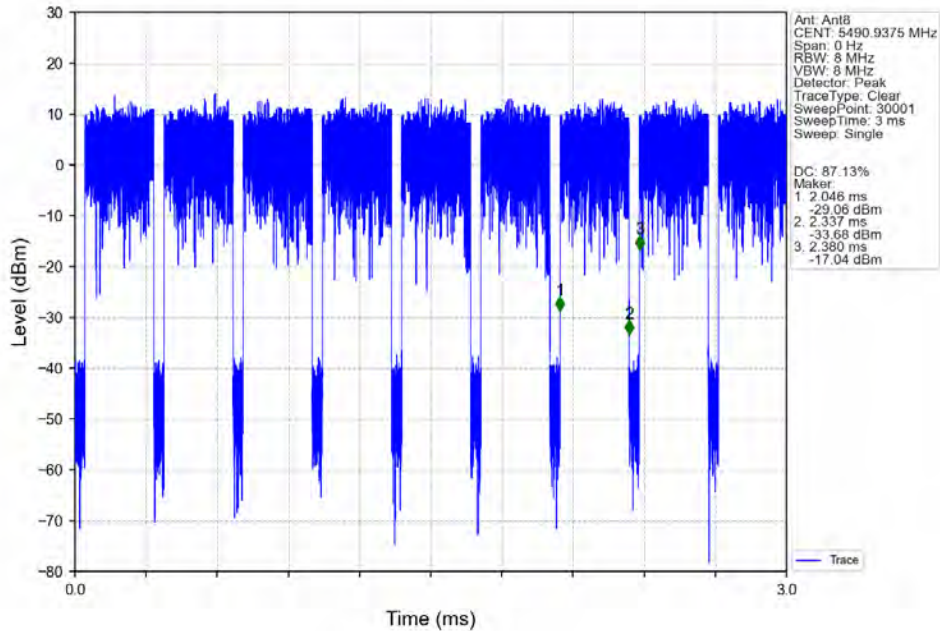
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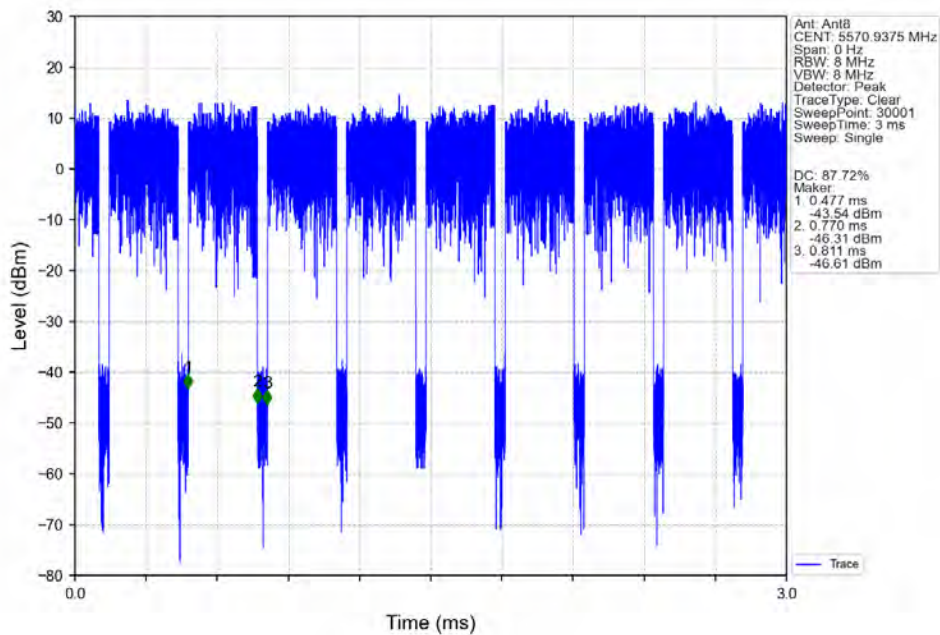
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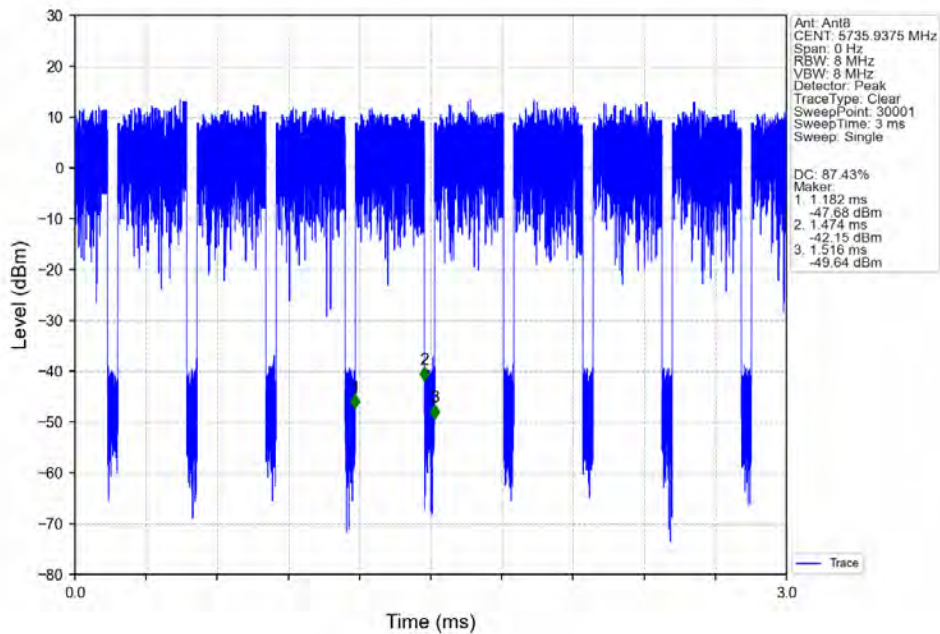
802.11ax(HEW80)_LCH_5530MHz_SU_/_Ant8_NTNV



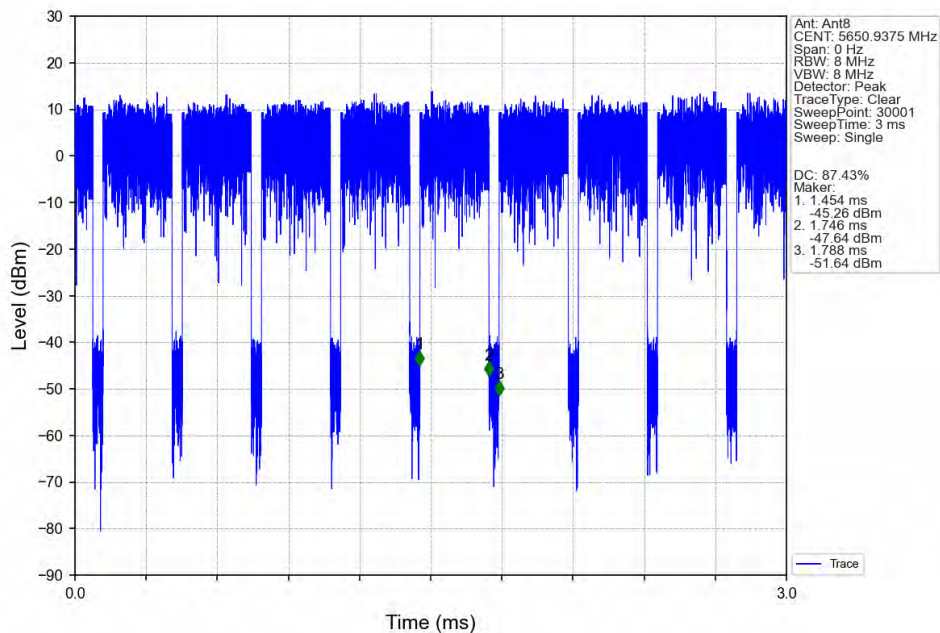
802.11ax(HEW80)_HCH_5610MHz_SU_/_Ant8_NTNV



802.11ax(HEW80)_MCH_5775MHz_SU_/_Ant8_NTNV



802.11ax(HEW80)_HCH_5690MHz_SU_/_Ant8_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	MIMO	5180	/	/	8	18.108	/	Pass
		5200	/	/	8	18.258	/	Pass
		5240	/	/	8	17.138	/	Pass
		5260	/	/	8	17.199	/	Pass
		5300	/	/	8	18.345	/	Pass
		5320	/	/	8	17.956	/	Pass
		5500	/	/	8	18.008	/	Pass
		5580	/	/	8	17.246	/	Pass
		5700	/	/	8	17.781	/	Pass
		5745	/	/	8	17.635	/	Pass
		5785	/	/	8	17.207	/	Pass
		5825	/	/	8	17.229	/	Pass
		5720	/	/	8	17.281	/	Pass
802.11n (HT20)	MIMO	5180	/	/	8	19.056	/	Pass
		5200	/	/	8	19.220	/	Pass
		5240	/	/	8	18.355	/	Pass
		5260	/	/	8	18.356	/	Pass
		5300	/	/	8	19.051	/	Pass
		5320	/	/	8	19.246	/	Pass
		5500	/	/	8	19.037	/	Pass
		5580	/	/	8	18.324	/	Pass
		5700	/	/	8	18.972	/	Pass
		5745	/	/	8	18.774	/	Pass
		5785	/	/	8	18.299	/	Pass
		5825	/	/	8	18.427	/	Pass
		5720	/	/	8	18.351	/	Pass
802.11n (HT40)	MIMO	5190	/	/	8	37.383	/	Pass
		5230	/	/	8	36.601	/	Pass
		5270	/	/	8	36.705	/	Pass
		5310	/	/	8	37.384	/	Pass
		5510	/	/	8	37.365	/	Pass



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		5550	/	/	8	36.674	/	Pass
		5670	/	/	8	37.872	/	Pass
		5755	/	/	8	37.008	/	Pass
		5795	/	/	8	36.704	/	Pass
		5710	/	/	8	36.641	/	Pass
802.11ac (VHT20)	MIMO	5180	/	/	8	18.903	/	Pass
		5200	/	/	8	19.024	/	Pass
		5240	/	/	8	18.235	/	Pass
		5260	/	/	8	18.246	/	Pass
		5300	/	/	8	19.159	/	Pass
		5320	/	/	8	19.049	/	Pass
		5500	/	/	8	18.881	/	Pass
		5580	/	/	8	18.305	/	Pass
		5700	/	/	8	18.838	/	Pass
		5745	/	/	8	18.787	/	Pass
		5785	/	/	8	18.338	/	Pass
		5825	/	/	8	18.423	/	Pass
		5720	/	/	8	18.275	/	Pass
802.11ac (VHT40)	MIMO	5190	/	/	8	37.216	/	Pass
		5230	/	/	8	36.514	/	Pass
		5270	/	/	8	36.540	/	Pass
		5310	/	/	8	37.384	/	Pass
		5510	/	/	8	37.193	/	Pass
		5550	/	/	8	36.567	/	Pass
		5670	/	/	8	37.710	/	Pass
		5755	/	/	8	37.048	/	Pass
		5795	/	/	8	36.666	/	Pass
802.11ac (VHT80)	MIMO	5710	/	/	8	36.768	/	Pass
		5210	/	/	8	76.909	/	Pass
		5290	/	/	8	77.047	/	Pass
		5530	/	/	8	76.922	/	Pass
		5610	/	/	8	76.261	/	Pass
		5775	/	/	8	76.165	/	Pass
802.11ax (HEW20)	MIMO	5690	/	/	8	76.223	/	Pass
		5180	SU	/	8	19.836	/	Pass
		5200	SU	/	8	19.373	/	Pass
		5240	SU	/	8	19.114	/	Pass
		5260	SU	/	8	19.088	/	Pass
		5300	SU	/	8	19.368	/	Pass
		5320	SU	/	8	19.378	/	Pass



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		5500	SU	/	8	19.307	/	Pass
		5580	SU	/	8	19.196	/	Pass
		5700	SU	/	8	19.302	/	Pass
		5745	SU	/	8	19.307	/	Pass
		5785	SU	/	8	19.110	/	Pass
		5825	SU	/	8	19.104	/	Pass
		5720	SU	/	8	19.115	/	Pass
802.11ax (HEW40)	MIMO	5190	SU	/	8	38.276	/	Pass
		5230	SU	/	8	37.750	/	Pass
		5270	SU	/	8	37.912	/	Pass
		5310	SU	/	8	38.360	/	Pass
		5510	SU	/	8	38.128	/	Pass
		5550	SU	/	8	37.797	/	Pass
		5670	SU	/	8	38.490	/	Pass
		5755	SU	/	8	38.220	/	Pass
		5795	SU	/	8	37.712	/	Pass
		5710	SU	/	8	37.812	/	Pass
802.11ax (HEW80)	MIMO	5210	SU	/	8	78.382	/	Pass
		5290	SU	/	8	78.541	/	Pass
		5530	SU	/	8	78.474	/	Pass
		5610	SU	/	8	77.966	/	Pass
		5775	SU	/	8	77.898	/	Pass
		5690	SU	/	8	78.045	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	MIMO	5745	/	/	8	16.010	>=0.5	Pass
		5785	/	/	8	15.351	>=0.5	Pass
		5825	/	/	8	15.146	>=0.5	Pass
802.11n (HT20)	MIMO	5745	/	/	8	15.149	>=0.5	Pass
		5785	/	/	8	15.177	>=0.5	Pass
		5825	/	/	8	15.170	>=0.5	Pass
802.11n (HT40)	MIMO	5755	/	/	8	35.167	>=0.5	Pass
		5795	/	/	8	35.163	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	/	/	8	15.141	>=0.5	Pass
		5785	/	/	8	15.158	>=0.5	Pass
		5825	/	/	8	15.142	>=0.5	Pass
802.11ac	MIMO	5755	/	/	8	35.161	>=0.5	Pass

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(VHT40)		5795	/	/	8	35.169	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	/	/	8	76.073	>=0.5	Pass
802.11ax (HEW20)	MIMO	5745	SU	/	8	16.612	>=0.5	Pass
		5785	SU	/	8	16.141	>=0.5	Pass
		5825	SU	/	8	16.905	>=0.5	Pass
802.11ax (HEW40)	MIMO	5755	SU	/	8	36.891	>=0.5	Pass
		5795	SU	/	8	36.355	>=0.5	Pass
802.11ax (HEW80)	MIMO	5775	SU	/	8	77.932	>=0.5	Pass

2.1.3 26dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	MIMO	5180	/	/	8	26.653	/	Pass
		5200	/	/	8	26.707	/	Pass
		5240	/	/	8	19.925	/	Pass
		5260	/	/	8	20.194	/	Pass
		5300	/	/	8	28.581	/	Pass
		5320	/	/	8	26.234	/	Pass
		5500	/	/	8	26.719	/	Pass
		5580	/	/	8	20.077	/	Pass
		5700	/	/	8	23.986	/	Pass
		5720	/	/	8	19.909	/	Pass
802.11n (HT20)	MIMO	5180	/	/	8	26.623	/	Pass
		5200	/	/	8	27.077	/	Pass
		5240	/	/	8	20.754	/	Pass
		5260	/	/	8	20.727	/	Pass
		5300	/	/	8	26.523	/	Pass
		5320	/	/	8	27.978	/	Pass
		5500	/	/	8	25.848	/	Pass
		5580	/	/	8	20.633	/	Pass
		5700	/	/	8	25.124	/	Pass
		5720	/	/	8	20.695	/	Pass
802.11n (HT40)	MIMO	5190	/	/	8	53.354	/	Pass
		5230	/	/	8	40.779	/	Pass
		5270	/	/	8	40.740	/	Pass
		5310	/	/	8	57.481	/	Pass
		5510	/	/	8	54.602	/	Pass
		5550	/	/	8	40.551	/	Pass

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		5670	/	/	8	56.492	/	Pass
		5710	/	/	8	40.545	/	Pass
802.11ac (VHT20)	MIMO	5180	/	/	8	26.246	/	Pass
		5200	/	/	8	27.509	/	Pass
		5240	/	/	8	20.984	/	Pass
		5260	/	/	8	20.601	/	Pass
		5300	/	/	8	28.170	/	Pass
		5320	/	/	8	26.614	/	Pass
		5500	/	/	8	27.427	/	Pass
		5580	/	/	8	20.990	/	Pass
		5700	/	/	8	25.029	/	Pass
		5720	/	/	8	20.674	/	Pass
802.11ac (VHT40)	MIMO	5190	/	/	8	58.328	/	Pass
		5230	/	/	8	40.599	/	Pass
		5270	/	/	8	40.952	/	Pass
		5310	/	/	8	54.954	/	Pass
		5510	/	/	8	57.505	/	Pass
		5550	/	/	8	40.514	/	Pass
		5670	/	/	8	58.181	/	Pass
		5710	/	/	8	40.594	/	Pass
802.11ac (VHT80)	MIMO	5210	/	/	8	115.146	/	Pass
		5290	/	/	8	111.192	/	Pass
		5530	/	/	8	118.427	/	Pass
		5610	/	/	8	80.351	/	Pass
		5690	/	/	8	80.290	/	Pass
802.11ax (HEW20)	MIMO	5180	SU	/	8	32.505	/	Pass
		5200	SU	/	8	26.598	/	Pass
		5240	SU	/	8	21.629	/	Pass
		5260	SU	/	8	21.443	/	Pass
		5300	SU	/	8	26.226	/	Pass
		5320	SU	/	8	30.315	/	Pass
		5500	SU	/	8	25.951	/	Pass
		5580	SU	/	8	21.480	/	Pass
		5700	SU	/	8	26.825	/	Pass
		5720	SU	/	8	21.312	/	Pass
802.11ax (HEW40)	MIMO	5190	SU	/	8	53.545	/	Pass
		5230	SU	/	8	39.608	/	Pass
		5270	SU	/	8	39.618	/	Pass
		5310	SU	/	8	51.292	/	Pass
		5510	SU	/	8	54.015	/	Pass



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802.11ax (HEW80)	MIMO	5550	SU	/	8	39.614	/	Pass
		5670	SU	/	8	56.059	/	Pass
		5710	SU	/	8	39.617	/	Pass
		5210	SU	/	8	89.025	/	Pass
		5290	SU	/	8	101.312	/	Pass
		5530	SU	/	8	91.366	/	Pass
		5610	SU	/	8	80.735	/	Pass
		5690	SU	/	8	80.495	/	Pass



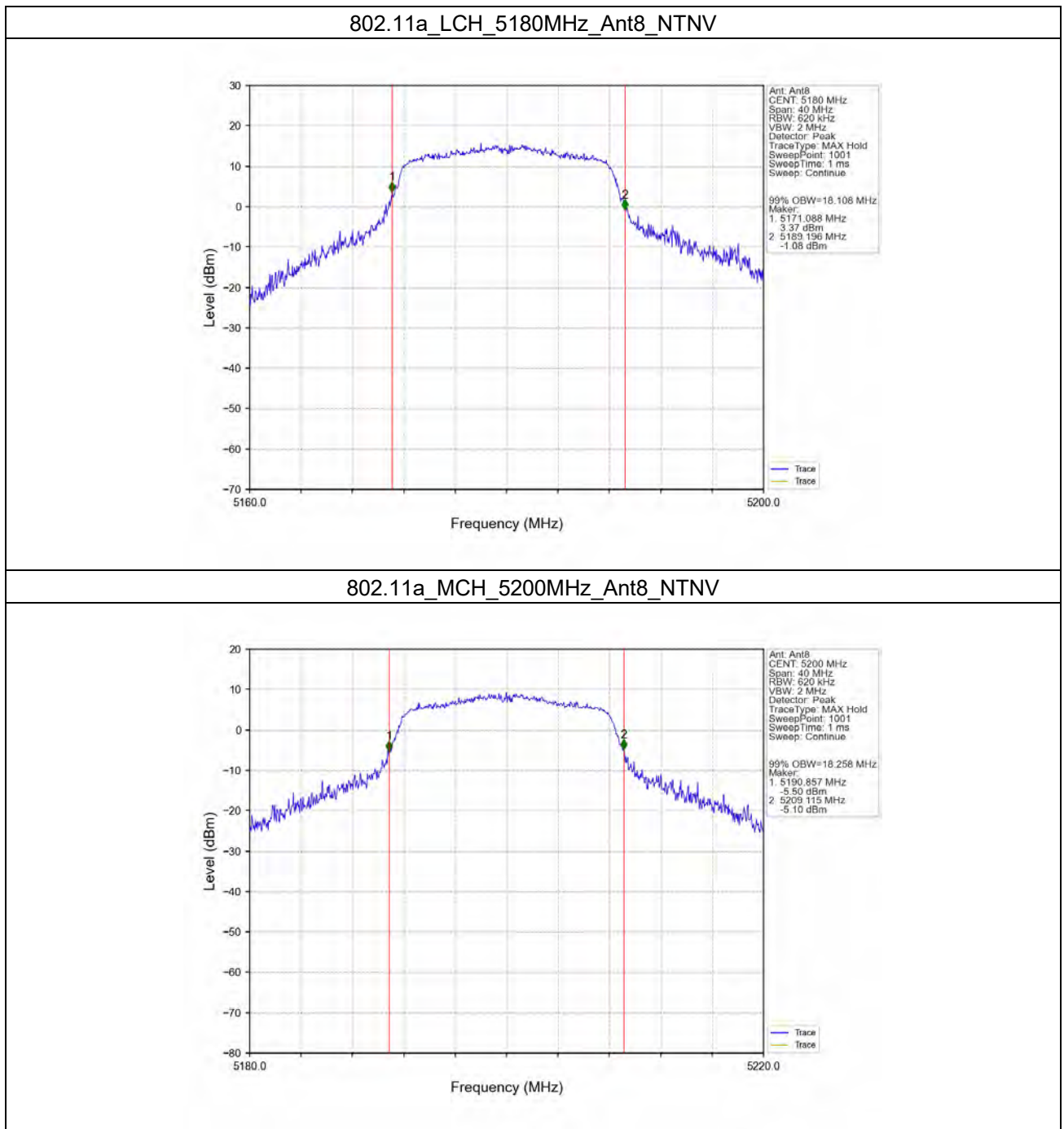
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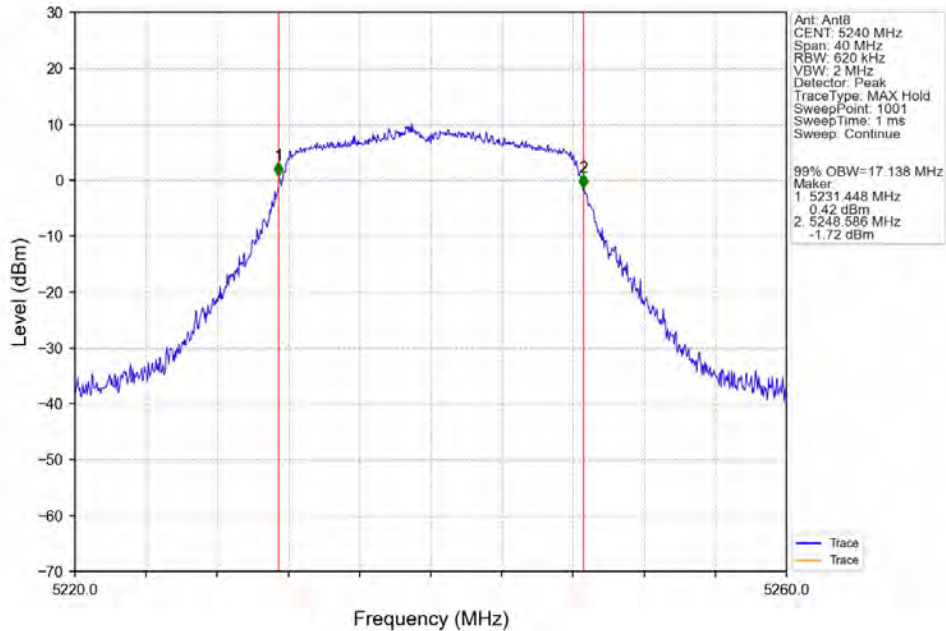
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2.2 Test Graph

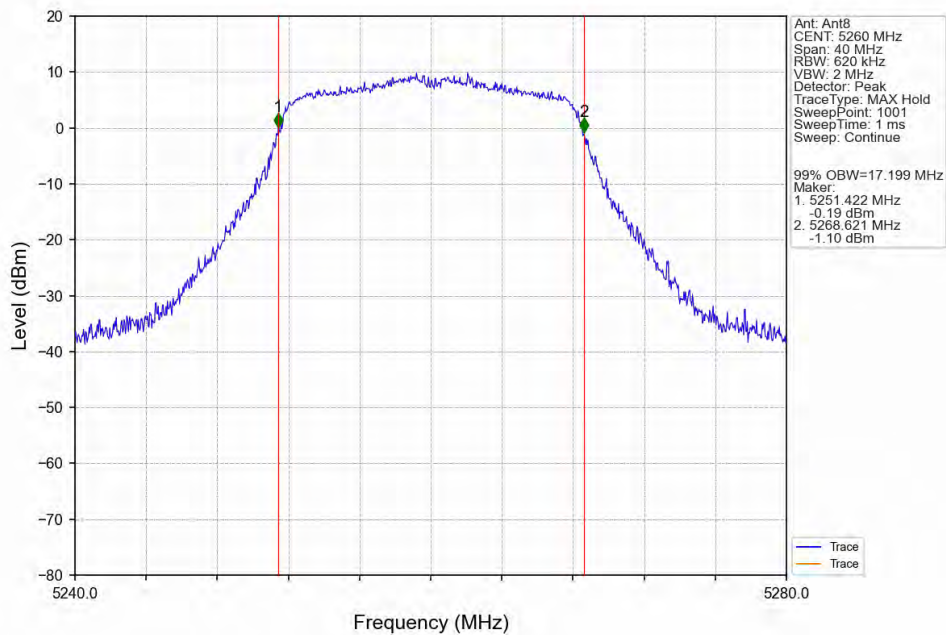
2.2.1 OBW



802.11a_HCH_5240MHz_Ant8_NTNV



802.11a_LCH_5260MHz_Ant8_NTNV



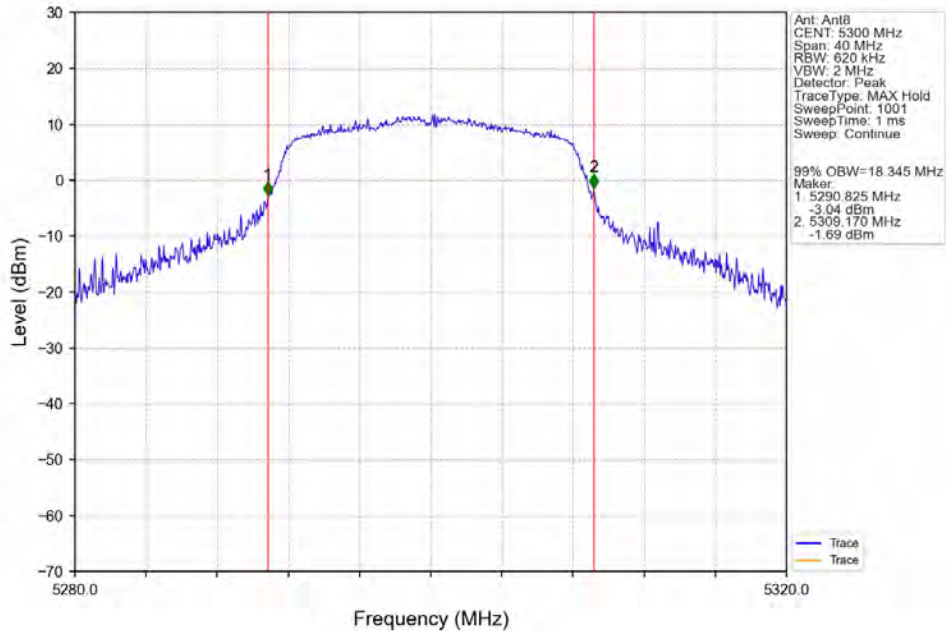
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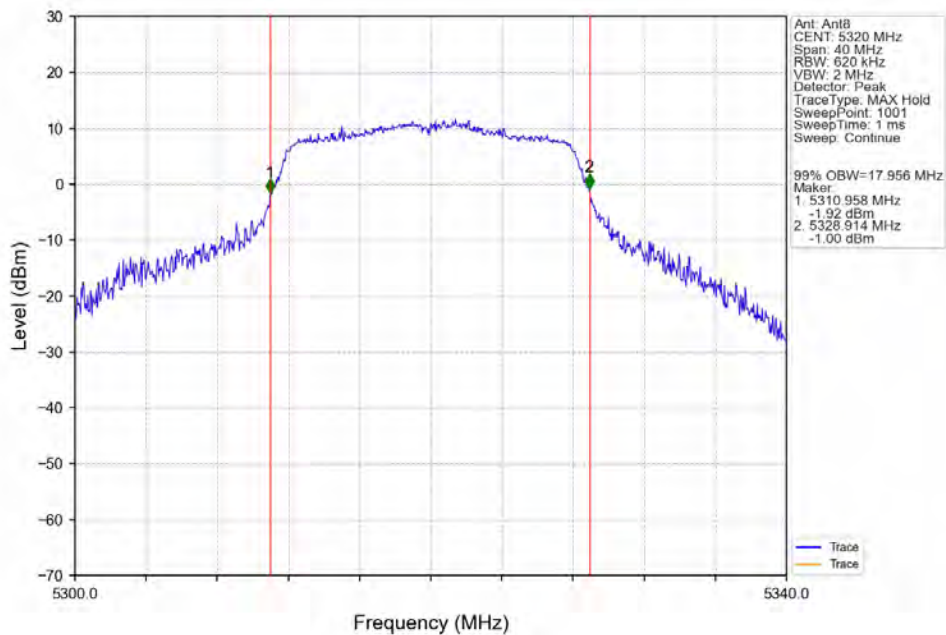
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802.11a_MCH_5300MHz_Ant8_NTNV



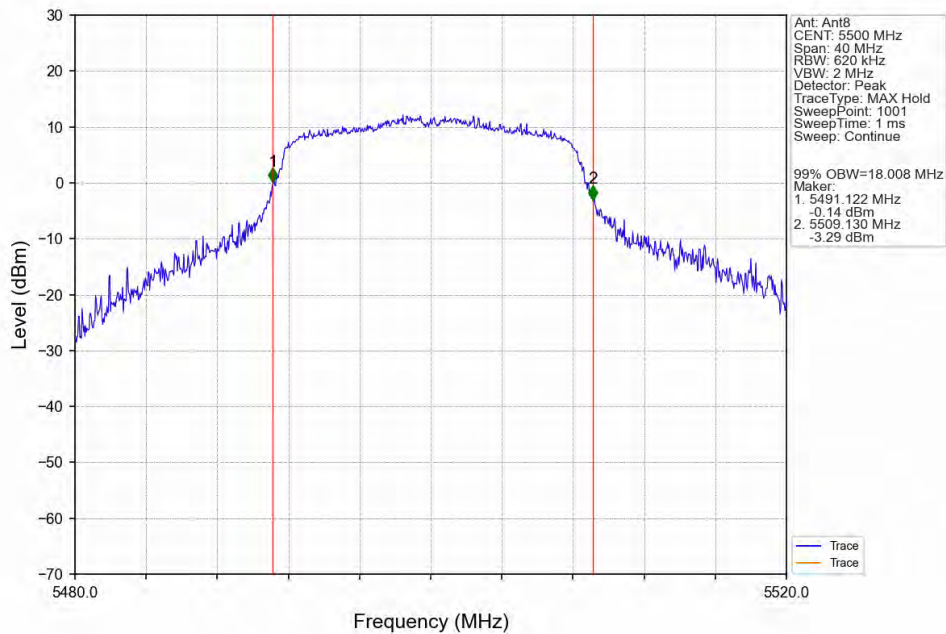
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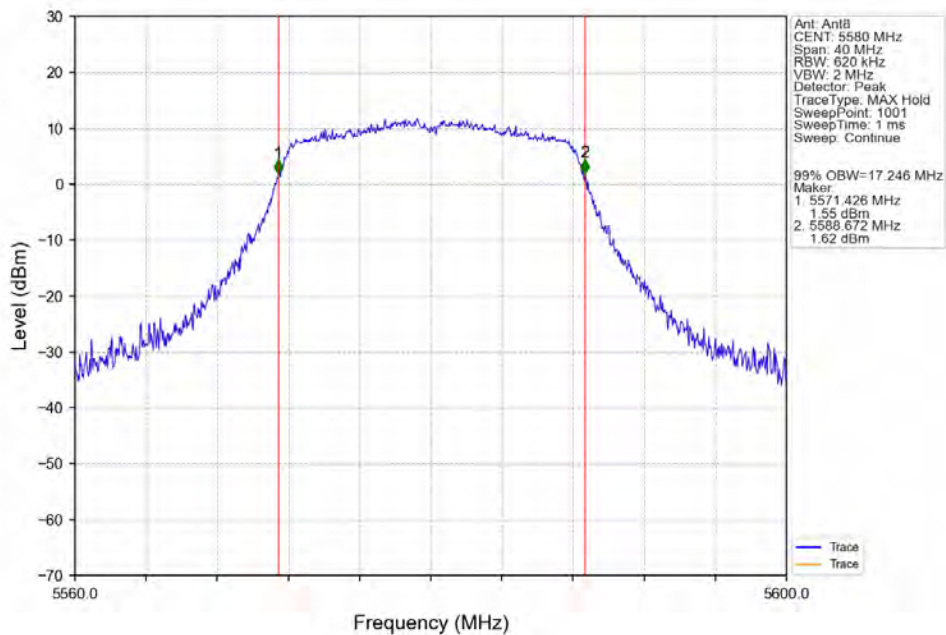
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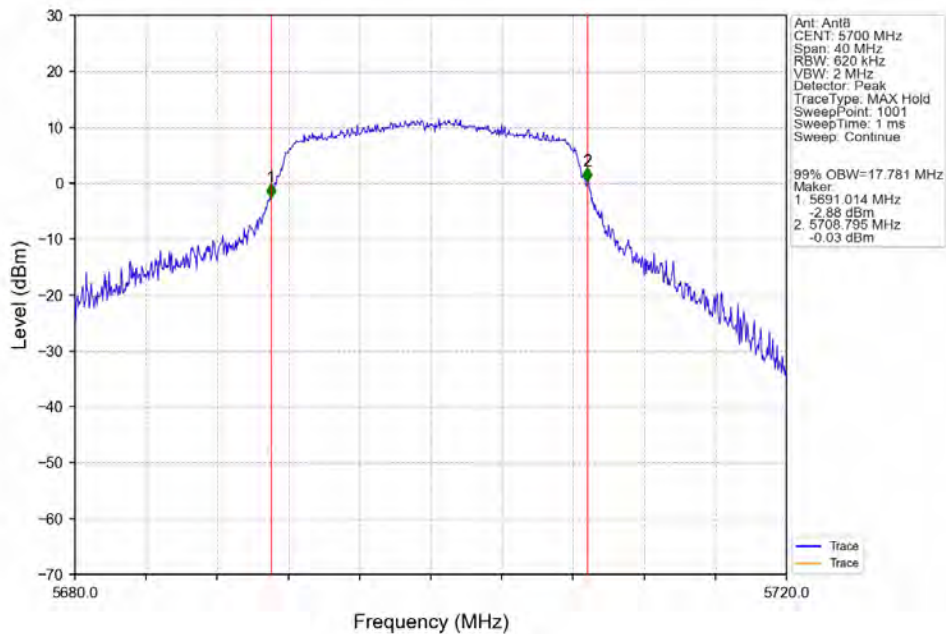
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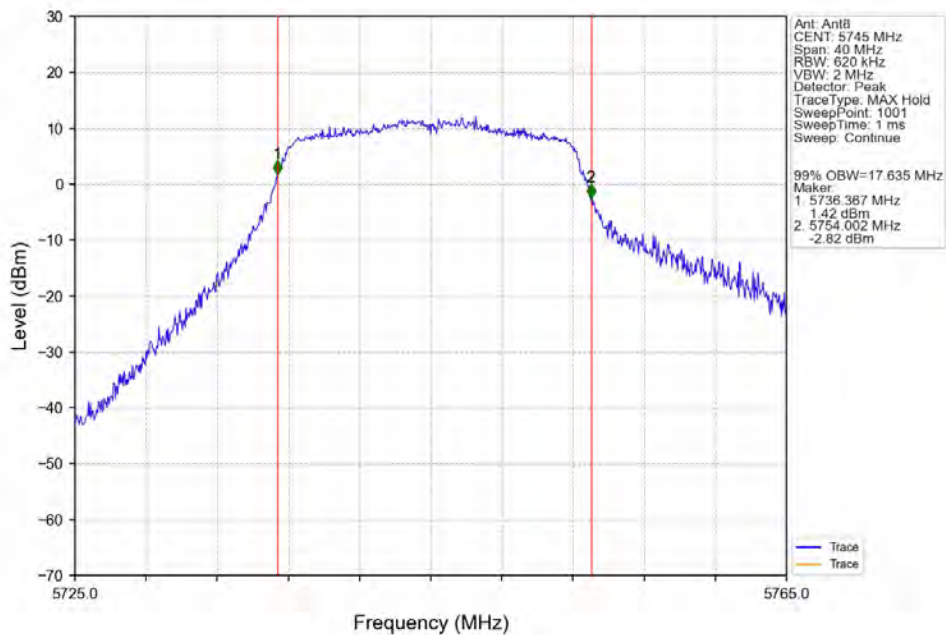
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802.11a_HCH_5700MHz_Ant8_NTNV



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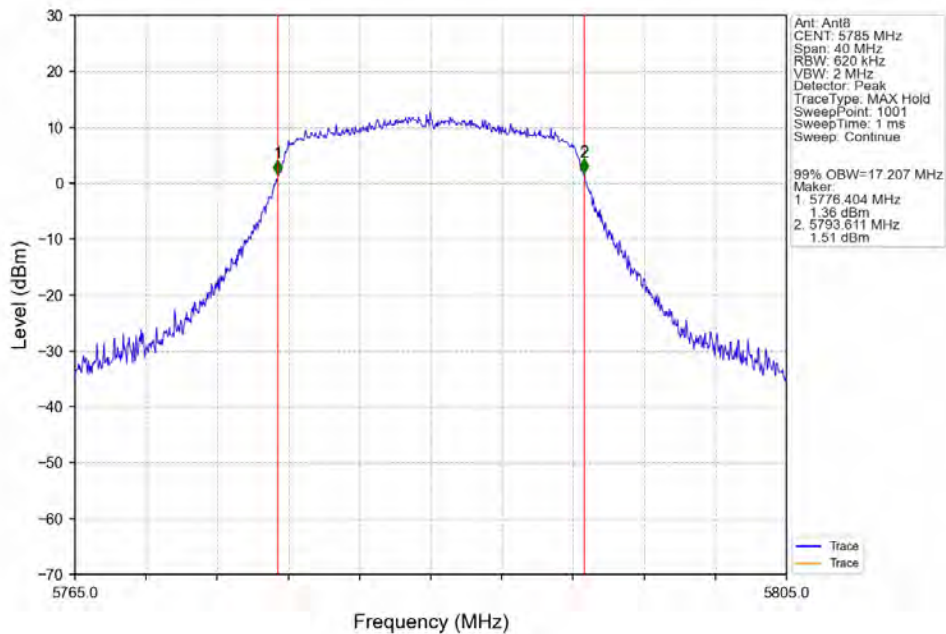
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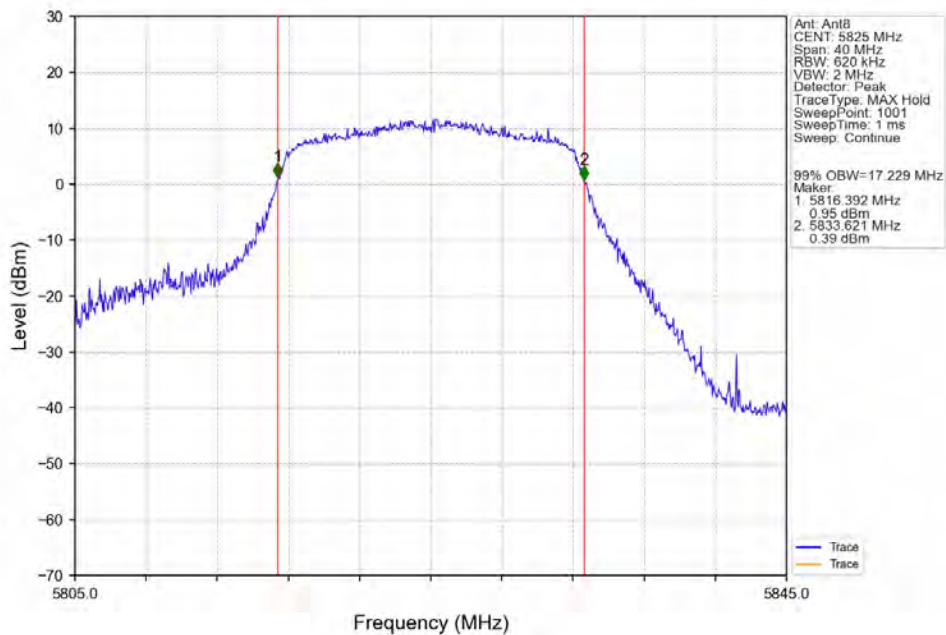
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802.11a_MCH_5785MHz_Ant8_NTNV



802.11a_HCH_5825MHz_Ant8_NTNV



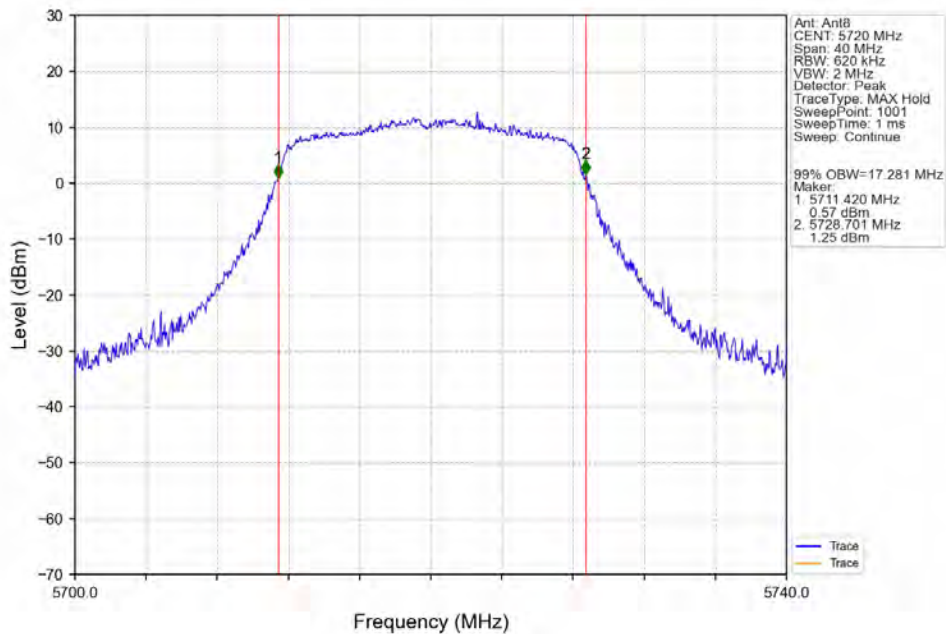
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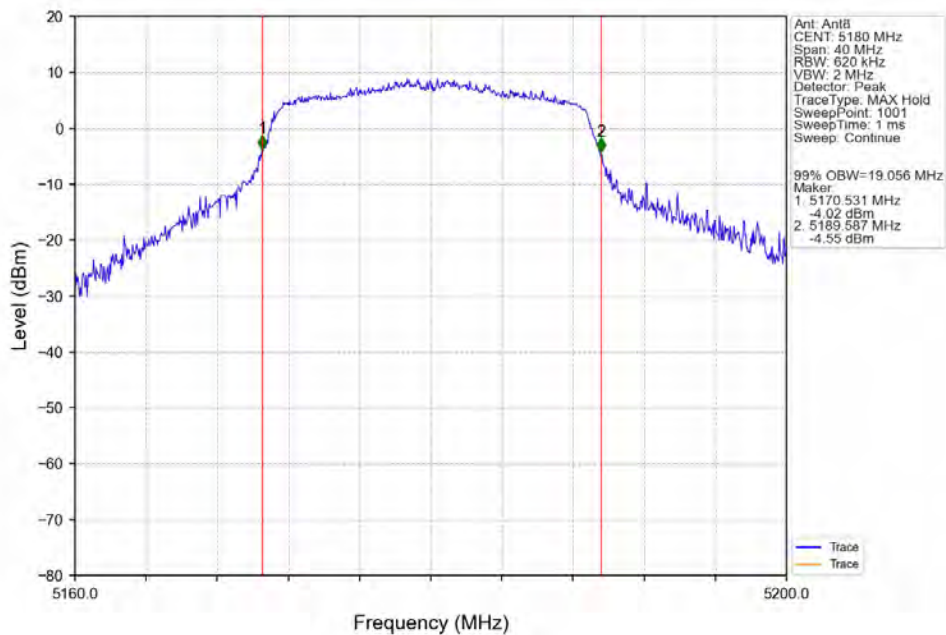
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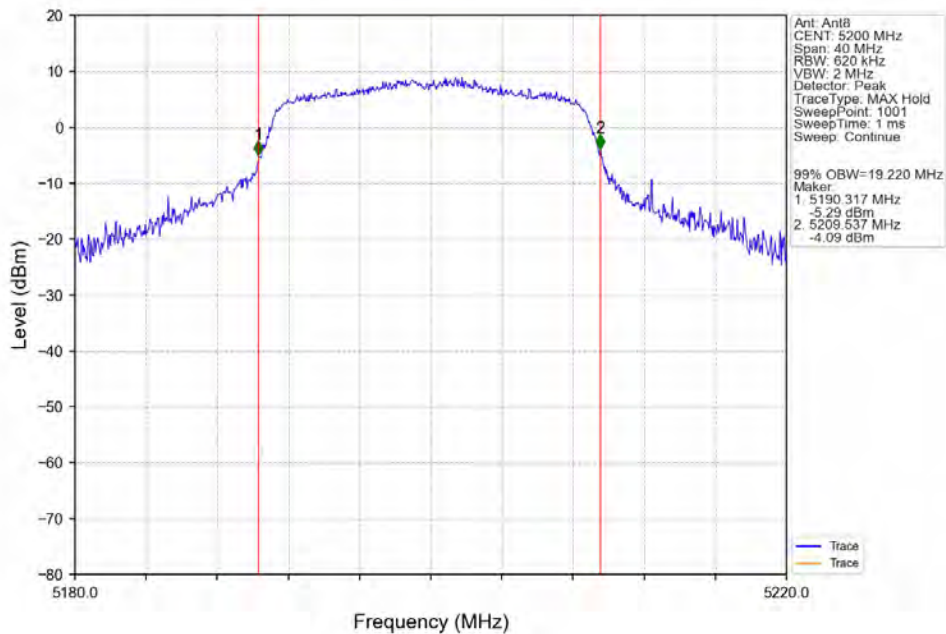
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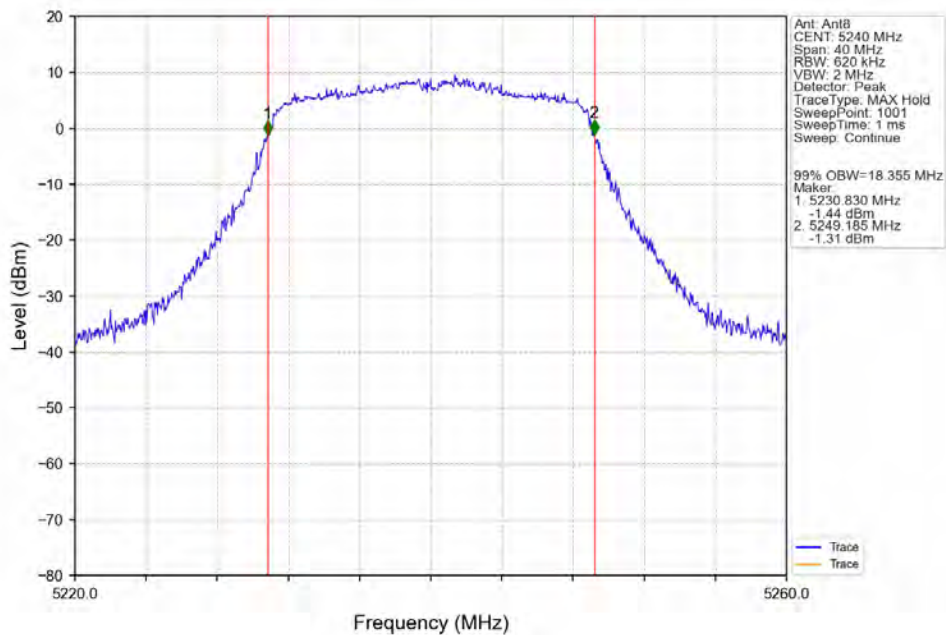
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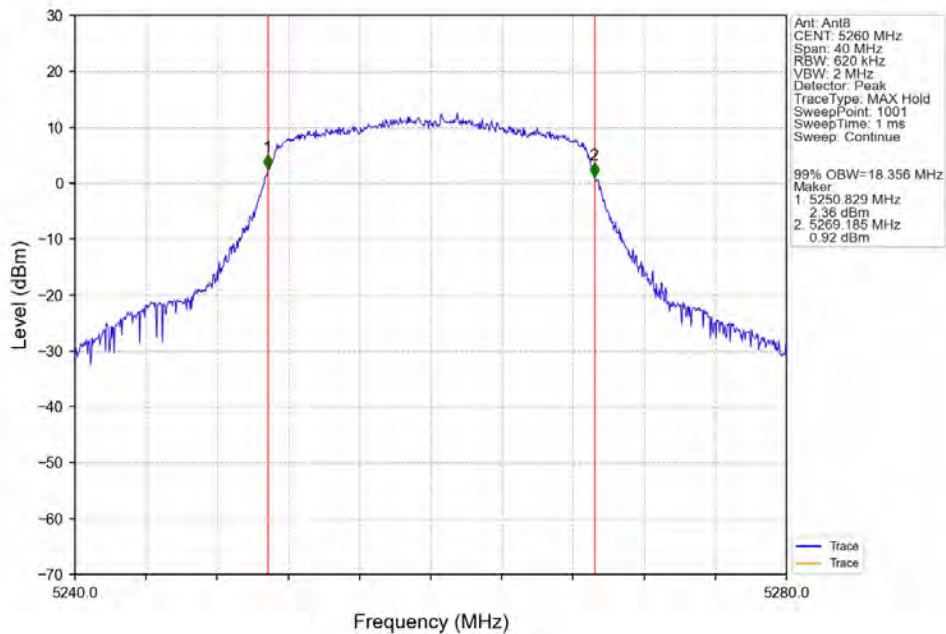
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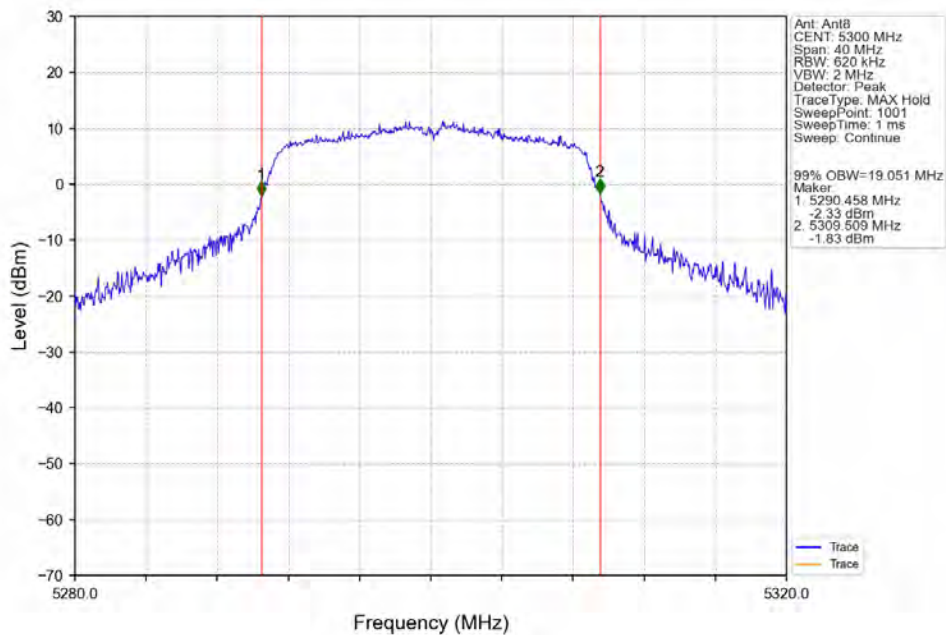
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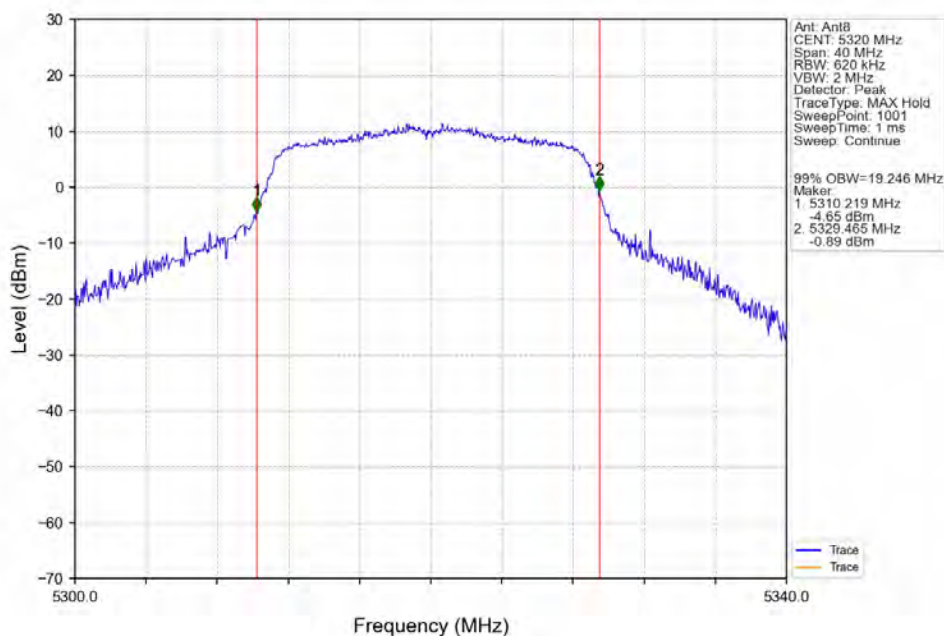
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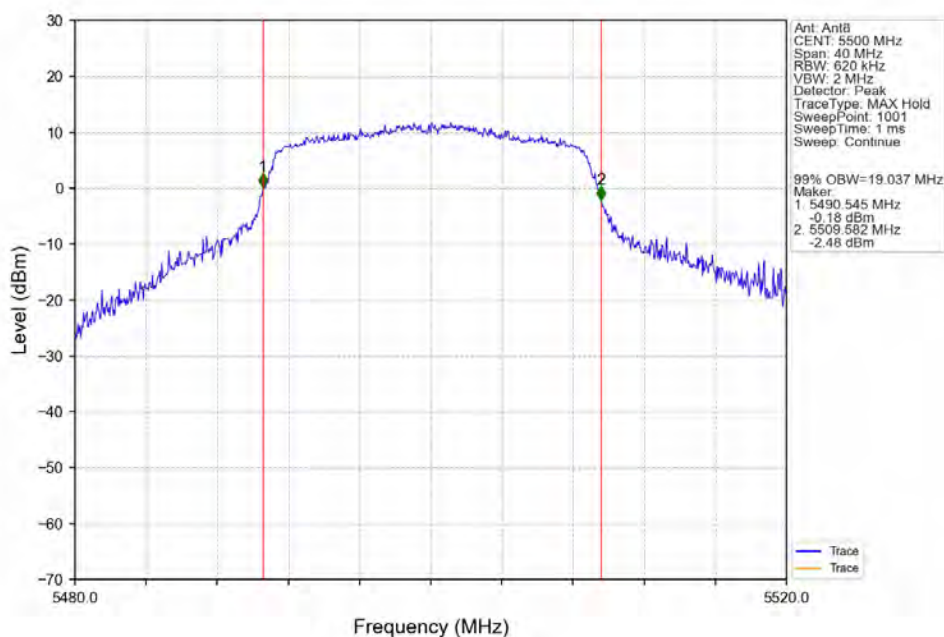
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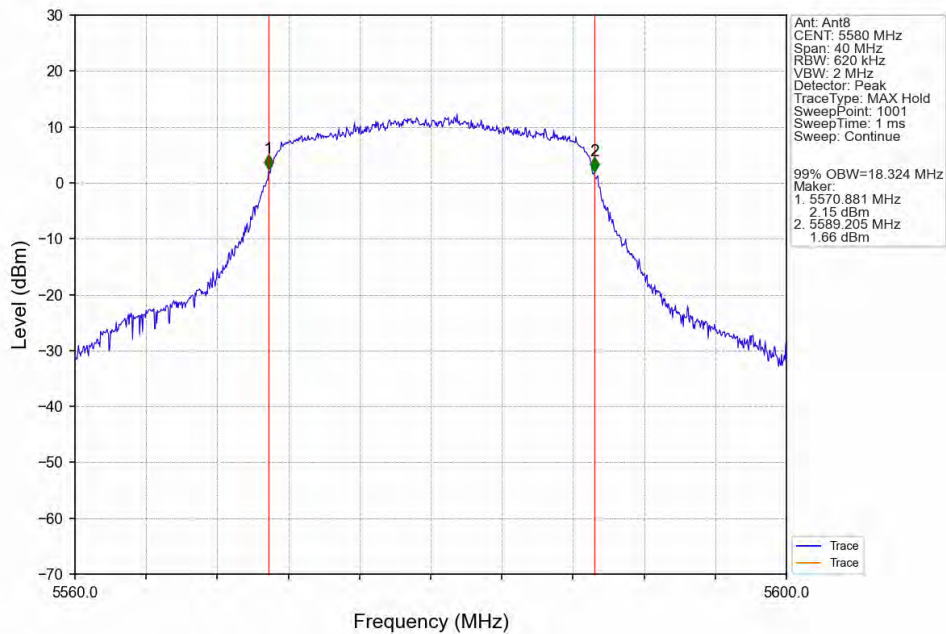
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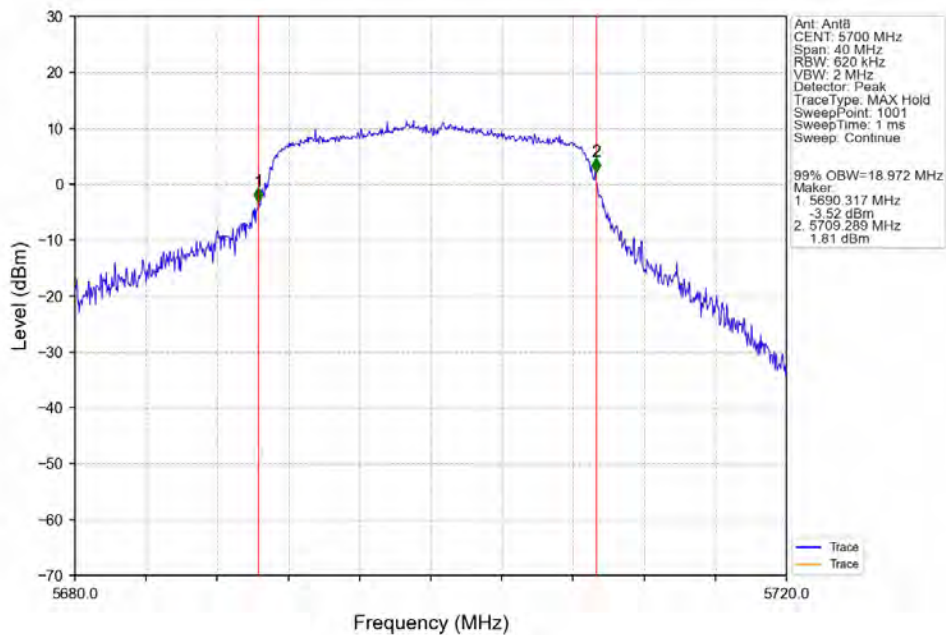
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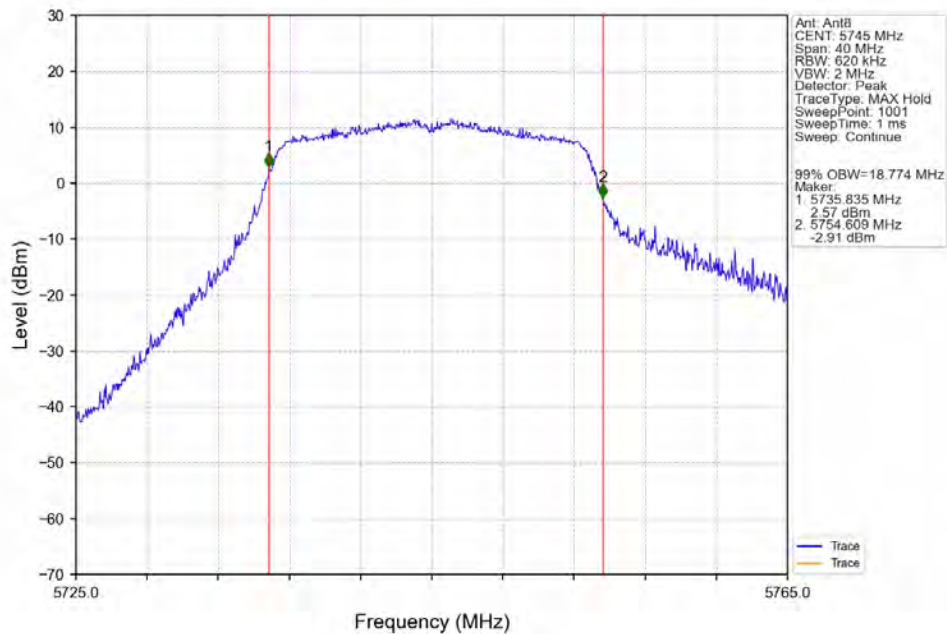
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802.11n(HT20)_HCH_5700MHz_Ant8_NTNV



802.11n(HT20)_LCH_5745MHz_Ant8_NTNV



802.11n(HT20)_MCH_5785MHz_Ant8_NTNV

