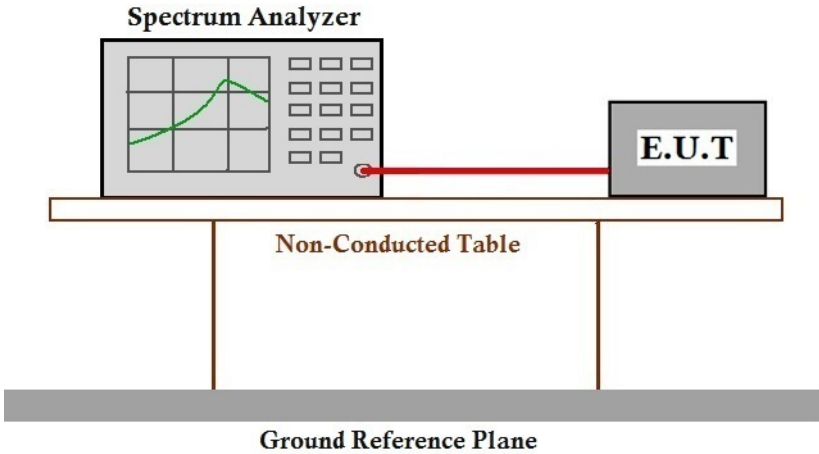


		802.11ac(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz). Only the data of worst case is recorded in the report.
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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 26dB Emission Bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
 Test Method: ANSI C63.10 (2020) Section 12.5.2
 Test Engineer: Mingli Hu

7.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.3 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	12	TX mode (U-NII-1)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(160MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(160MHz). Only the data of worst case is recorded in the report.
Final test	13	TX mode (U-NII-2A)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz). Only the data of worst case is recorded in the report.
Final test	14	TX mode (U-NII-2C)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(160MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(160MHz). Only the data of worst case is recorded in the report.
Final test	15	TX mode (U-NII-3)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE



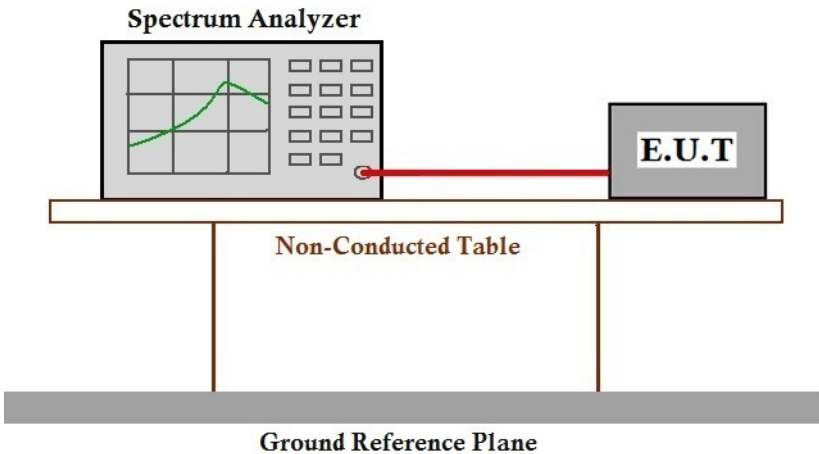
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		802.11ac(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz). Only the data of worst case is recorded in the report.
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 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 (2020) Section 12.5.1
 Test Engineer: Mingli Hu
 Limit:

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

7.8.1 E.U.T. Operation

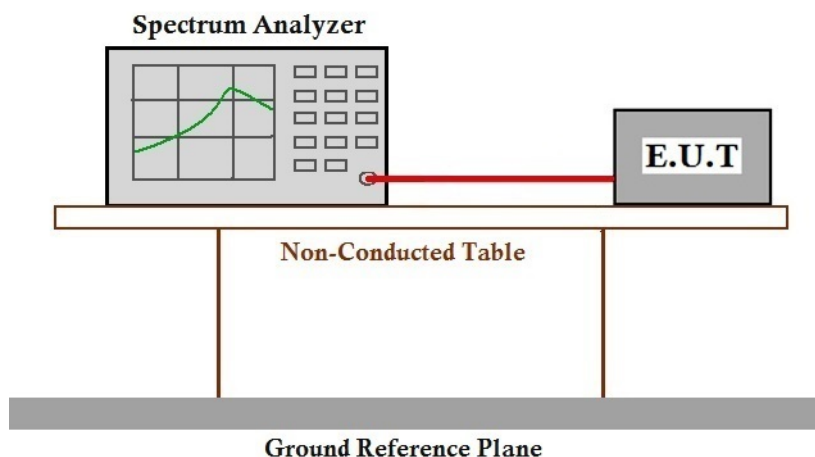
Operating Environment:

Temperature: 21.3 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-3)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz). Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



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7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.9 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
 Test Method: ANSI C63.10 (2020) Section 12.4
 Test Engineer: Mingli Hu
 Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark: * Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.	

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

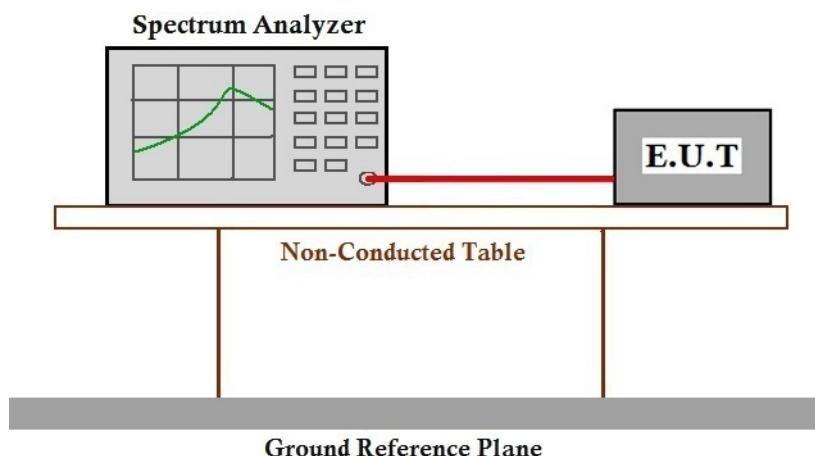
Pre-scan / Final test	Mode Code	Description
Final test	12	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(160MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(160MHz). Only the data of worst case is recorded in the report.
Final test	13	TX mode (U-NII-2A)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz). Only the data of worst case is recorded in the report.
Final test	14	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found



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		the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(160MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(160MHz). Only the data of worst case is recorded in the report.
Final test	15	TX mode (U-NII-3)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz). Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

AV Output power Level = Reading level +Cable loss + DCCF

Please Refer to Appendix for Details

7.10 Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
 Test Method: ANSI C63.10 (2020) Section 12.6
 Test Engineer: Mingli Hu
 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.	

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	12	TX mode (U-NII-1)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(160MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(160MHz). Only the data of worst case is recorded in the report.
Final test	13	TX mode (U-NII-2A)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz). Only the data of worst case is recorded in the report.
Final test	14	TX mode (U-NII-2C)_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 @ HT0/HT8 is

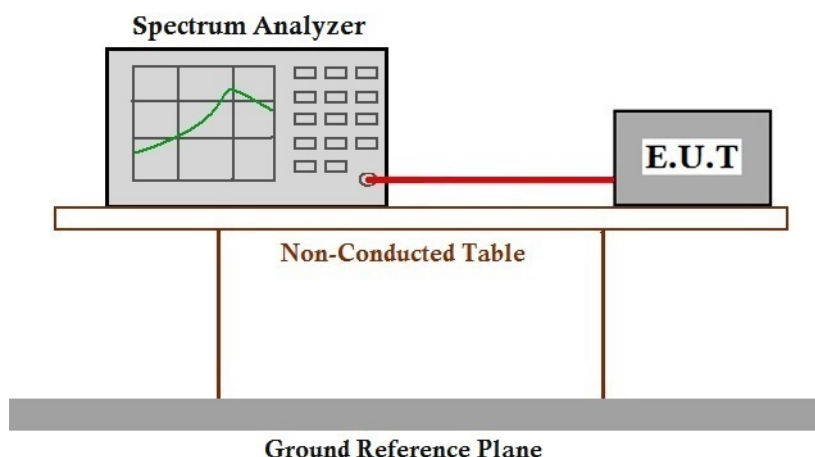


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		the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(160MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(160MHz). Only the data of worst case is recorded in the report.
Final test	15	TX mode (U-NII-3)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz). Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

RBW conversion factor from 300kHz to 500kHz (2.22dB) for UNII Band 3 has been considered.

Please Refer to Appendix for Details

7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)
 Test Method: ANSI C63.10 (2020) Section 6.8
 Test Engineer: Mingli Hu

7.11.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.3 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	12	TX mode (U-NII-1)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(160MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(160MHz). Only the data of worst case is recorded in the report.
Final test	13	TX mode (U-NII-2A)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz). Only the data of worst case is recorded in the report.
Final test	14	TX mode (U-NII-2C)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(80MHz); data rate @ VHT0 is the worst case of IEEE 802.11ac(160MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(160MHz). Only the data of worst case is recorded in the report.
Final test	15	TX mode (U-NII-3)_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 @ HT0/HT8 is the worst case of IEEE 802.11n(20MHz); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(40MHz); data rate @ VHT0 is the worst case of IEEE



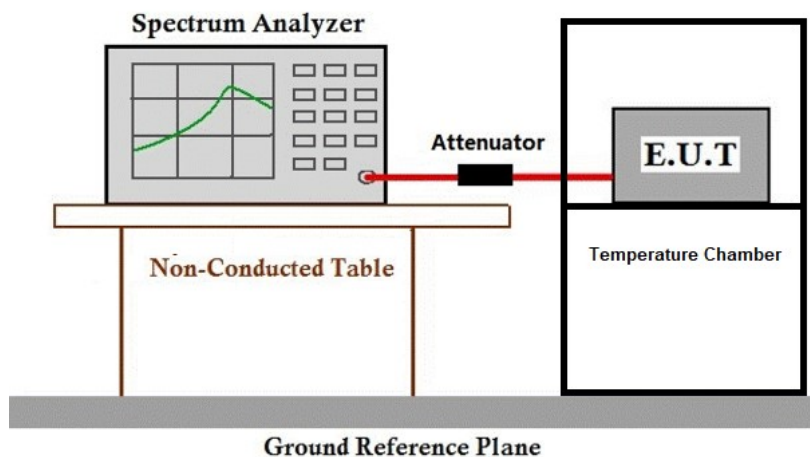
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		802.11ac(80MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(20MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(40MHz); data rate @ HE0 is the worst case of IEEE 802.11ax(80MHz). Only the data of worst case is recorded in the report.
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7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.12 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
 Test Method: KDB 905462 D02 Section 7.8.3
 Test Engineer: Mingli Hu
 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.

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar

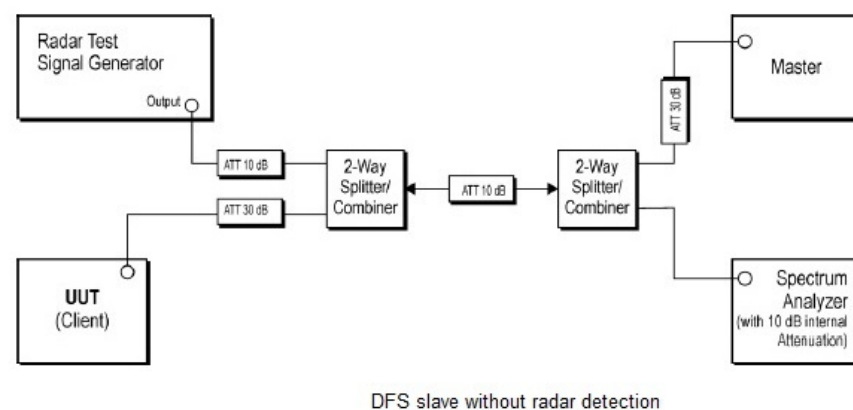
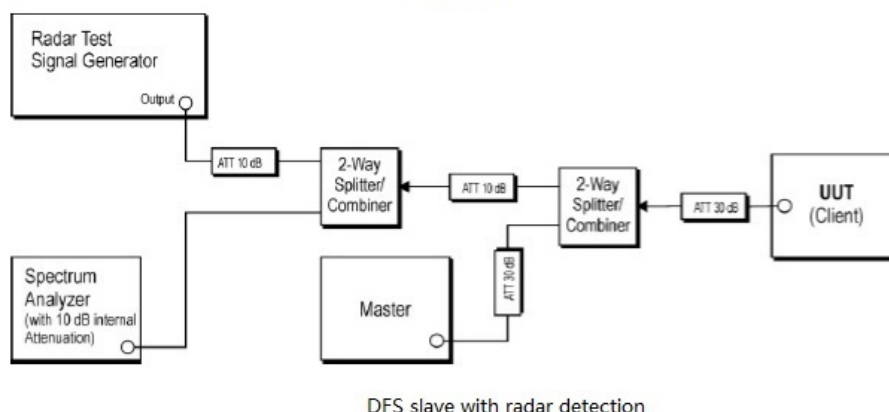
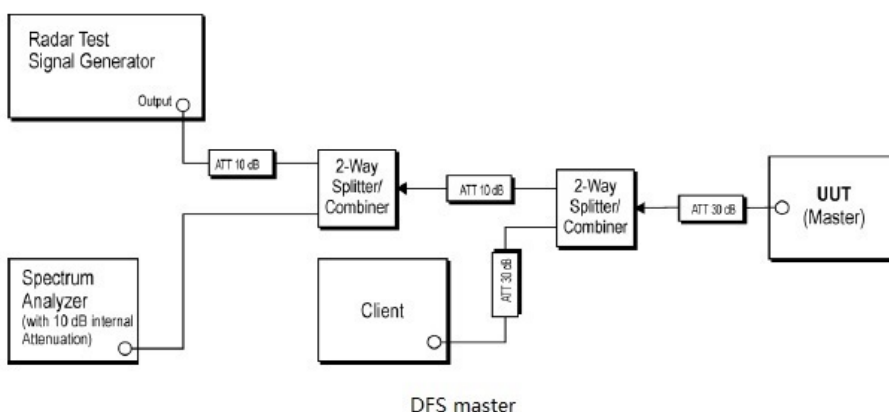


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7.12.2 Test Setup Diagram



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7.12.3 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



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7.13 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
 Test Method: KDB 905462 D02 Section 7.8.3
 Test Engineer: Mingli Hu
 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: 21.3 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar



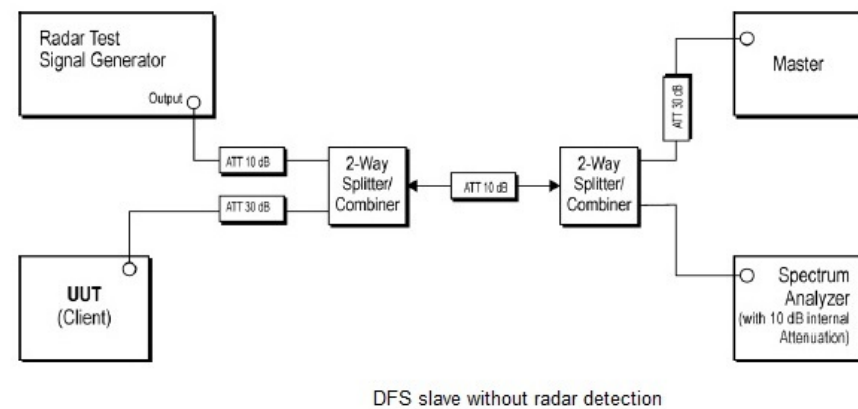
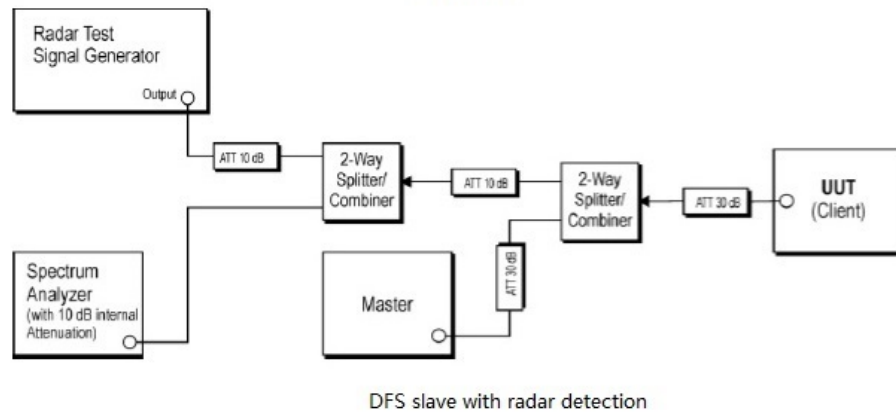
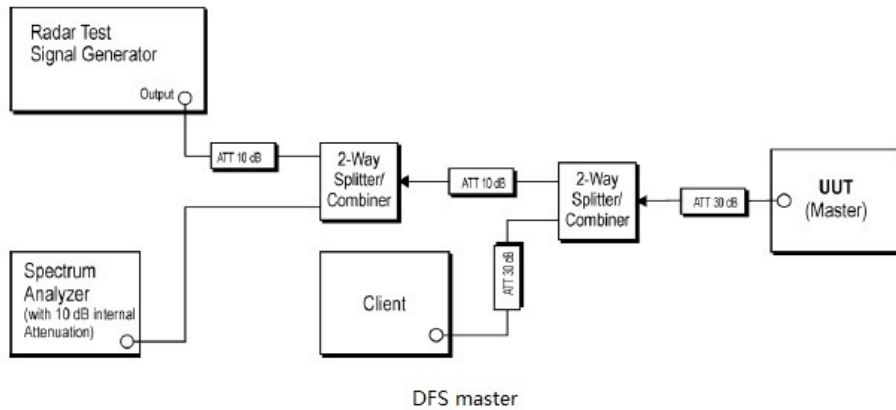
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7.13.2 Test Setup Diagram



7.13.3 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.

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8 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2601000366AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2601000366AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	2.098	2.113	99.29	0.03	0.03
		5200	/	/	2.097	2.113	99.24	0.03	0.03
		5240	/	/	2.098	2.113	99.29	0.03	0.03
		5260	/	/	2.097	2.113	99.24	0.03	0.03
		5300	/	/	2.097	2.112	99.29	0.03	0.03
		5320	/	/	2.098	2.113	99.29	0.03	0.03
		5500	/	/	2.098	2.113	99.29	0.03	0.03
		5580	/	/	2.098	2.114	99.24	0.03	0.03
		5700	/	/	2.097	2.112	99.29	0.03	0.03
		5745	/	/	2.098	2.114	99.24	0.03	0.03
		5785	/	/	2.098	2.113	99.29	0.03	0.03
		5825	/	/	2.097	2.113	99.24	0.03	0.03
802.11n (HT20)	MIMO	5720	/	/	2.097	2.112	99.29	0.03	0.03
		5180	/	/	5.370	5.386	99.70	0.01	0.04
		5200	/	/	5.369	5.385	99.70	0.01	0.03
		5240	/	/	5.368	5.384	99.70	0.01	0.04
		5260	/	/	5.369	5.385	99.70	0.01	0.03
		5300	/	/	5.370	5.386	99.70	0.01	0.04
		5320	/	/	5.370	5.386	99.70	0.01	0.04
		5500	/	/	5.369	5.385	99.70	0.01	0.03
		5580	/	/	5.368	5.385	99.68	0.01	0.03
		5700	/	/	5.368	5.384	99.70	0.01	0.04
		5745	/	/	5.369	5.384	99.72	0.01	0.00
		5785	/	/	5.369	5.385	99.70	0.01	0.03
		5825	/	/	5.370	5.386	99.70	0.01	0.04
		5720	/	/	5.370	5.386	99.70	0.01	0.04



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802.11n (HT40)	MIMO	5190	/	/	5.392	5.408	99.70	0.01	0.04
		5230	/	/	5.392	5.408	99.70	0.01	0.04
		5270	/	/	5.392	5.408	99.70	0.01	0.04
		5310	/	/	5.392	5.407	99.72	0.01	0.00
		5510	/	/	5.393	5.408	99.72	0.01	0.00
		5550	/	/	5.392	5.408	99.70	0.01	0.04
		5670	/	/	5.393	5.408	99.72	0.01	0.00
		5755	/	/	5.392	5.408	99.70	0.01	0.04
		5795	/	/	5.392	5.407	99.72	0.01	0.00
		5710	/	/	5.392	5.408	99.70	0.01	0.04
802.11ac (VHT20)	MIMO	5180	/	/	5.374	5.390	99.70	0.01	0.04
		5200	/	/	5.374	5.390	99.70	0.01	0.04
		5240	/	/	5.372	5.388	99.70	0.01	0.04
		5260	/	/	5.374	5.390	99.70	0.01	0.04
		5300	/	/	5.372	5.389	99.68	0.01	0.03
		5320	/	/	5.374	5.389	99.72	0.01	0.00
		5500	/	/	5.374	5.390	99.70	0.01	0.04
		5580	/	/	5.372	5.389	99.68	0.01	0.03
		5700	/	/	5.374	5.390	99.70	0.01	0.04
		5745	/	/	5.374	5.389	99.72	0.01	0.00
		5785	/	/	5.374	5.389	99.72	0.01	0.00
		5825	/	/	5.374	5.391	99.68	0.01	0.03
		5720	/	/	5.372	5.389	99.68	0.01	0.03
802.11ac (VHT40)	MIMO	5190	/	/	5.396	5.412	99.70	0.01	0.04
		5230	/	/	5.396	5.412	99.70	0.01	0.04
		5270	/	/	5.396	5.412	99.70	0.01	0.04
		5310	/	/	5.396	5.412	99.70	0.01	0.04
		5510	/	/	5.397	5.411	99.74	0.01	0.00
		5550	/	/	5.397	5.411	99.74	0.01	0.00
		5670	/	/	5.396	5.412	99.70	0.01	0.04
		5755	/	/	5.396	5.412	99.70	0.01	0.04
		5795	/	/	5.396	5.412	99.70	0.01	0.04
		5710	/	/	5.396	5.412	99.70	0.01	0.04
802.11ac (VHT80)	MIMO	5210	/	/	3.121	3.136	99.52	0.02	0.00
		5290	/	/	3.121	3.136	99.52	0.02	0.03
		5530	/	/	3.121	3.137	99.49	0.02	0.07
		5610	/	/	3.120	3.136	99.49	0.02	0.03
		5775	/	/	3.120	3.135	99.52	0.02	0.00
		5690	/	/	3.121	3.136	99.52	0.02	0.00



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802.11ac (VHT160)	MIMO	5570	/	/	2.205	2.220	99.32	0.03	0.04
		5250	/	/	2.205	2.220	99.32	0.03	0.04
802.11ax (HEW20)	MIMO	5180	RU242	Left	5.428	5.445	99.69	0.01	0.03
		5200	RU242	Left	5.428	5.444	99.71	0.01	0.04
		5240	RU242	Left	5.428	5.445	99.69	0.01	0.03
		5260	RU242	Left	5.430	5.446	99.71	0.01	0.04
		5300	RU242	Left	5.430	5.446	99.71	0.01	0.04
		5320	RU242	Left	5.430	5.446	99.71	0.01	0.04
		5500	RU242	Left	5.430	5.445	99.72	0.01	0.00
		5580	RU242	Left	5.428	5.444	99.71	0.01	0.04
		5700	RU242	Left	5.430	5.445	99.72	0.01	0.00
		5745	RU242	Left	5.428	5.444	99.71	0.01	0.04
		5785	RU242	Left	5.428	5.444	99.71	0.01	0.04
		5825	RU242	Left	5.430	5.445	99.72	0.01	0.00
802.11ax (HEW40)	MIMO	5720	RU242	Left	5.428	5.445	99.69	0.01	0.03
		5190	RU484	Left	4.817	4.832	99.69	0.01	0.03
		5230	RU484	Left	4.816	4.831	99.69	0.01	0.03
		5270	RU484	Left	4.817	4.832	99.69	0.01	0.00
		5310	RU484	Left	4.816	4.831	99.69	0.01	0.03
		5510	RU484	Left	4.817	4.833	99.67	0.01	0.04
		5550	RU484	Left	4.816	4.831	99.69	0.01	0.00
		5670	RU484	Left	4.816	4.831	99.69	0.01	0.00
		5755	RU484	Left	4.817	4.833	99.67	0.01	0.04
802.11ax (HEW80)	MIMO	5795	RU484	Left	4.817	4.833	99.67	0.01	0.04
		5710	RU484	Left	4.816	4.831	99.69	0.01	0.00
		5210	RU996	Left	2.555	2.570	99.42	0.03	0.03
		5290	RU996	Left	2.555	2.571	99.38	0.03	0.03
		5530	RU996	Left	2.555	2.571	99.38	0.03	0.03
		5610	RU996	Left	2.555	2.570	99.42	0.03	0.03
802.11ax (HEW160)	MIMO	5775	RU996	Left	2.555	2.570	99.42	0.03	0.00
		5690	RU996	Left	2.555	2.570	99.42	0.03	0.03
		5570	2xRU996	Left	2.207	2.223	99.28	0.03	0.04
		5250	2xRU996	Left	2.206	2.222	99.28	0.03	0.04



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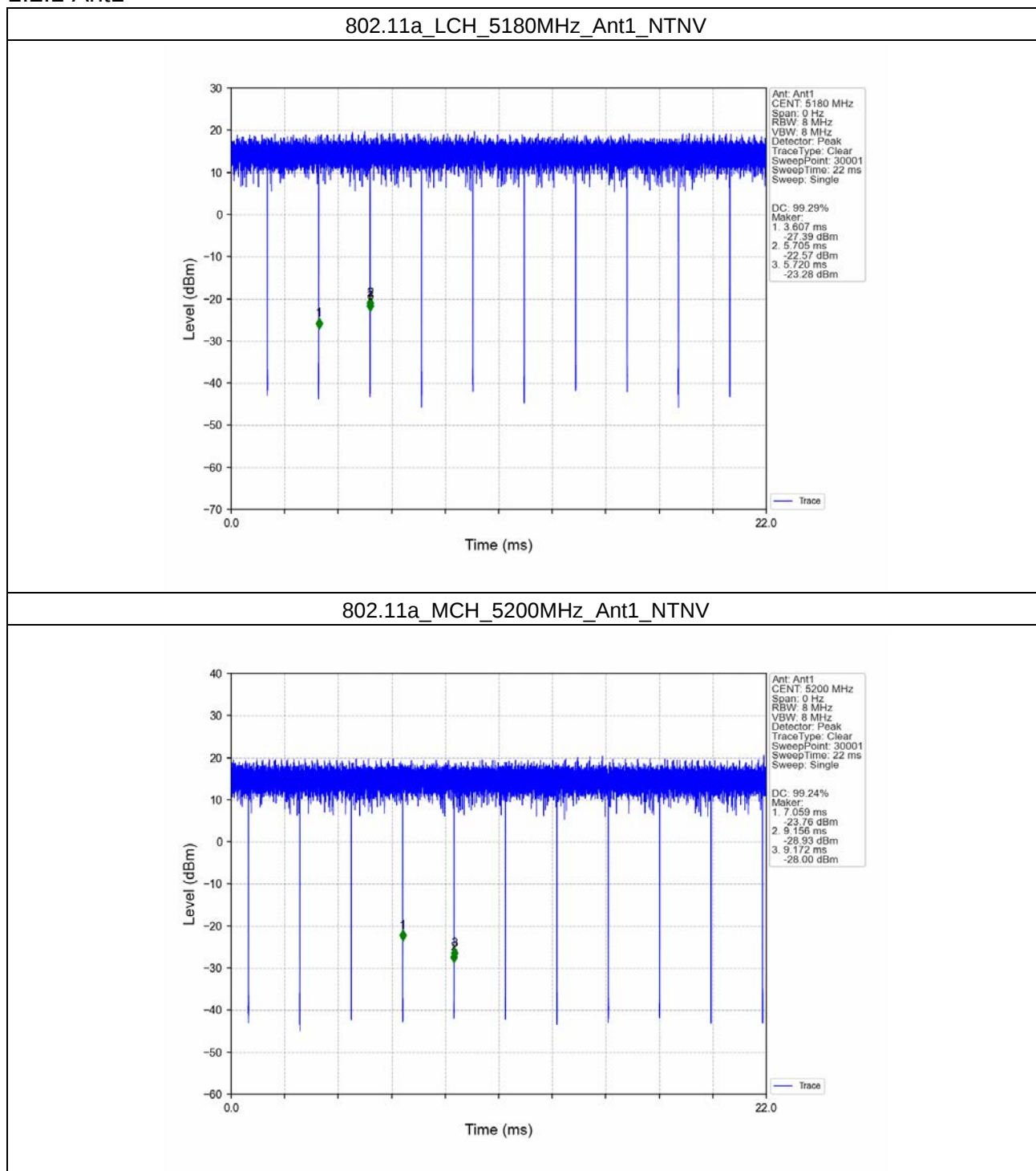
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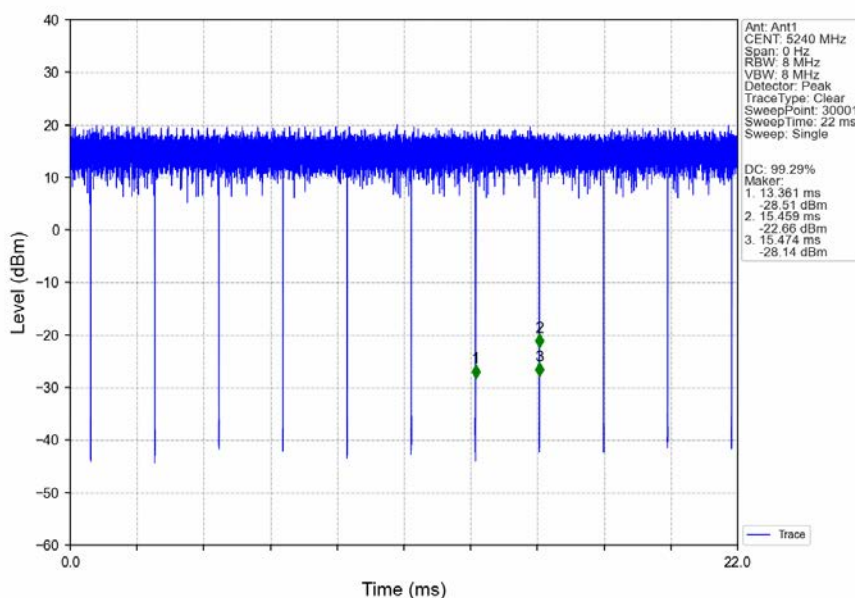
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1.2 Test Graph

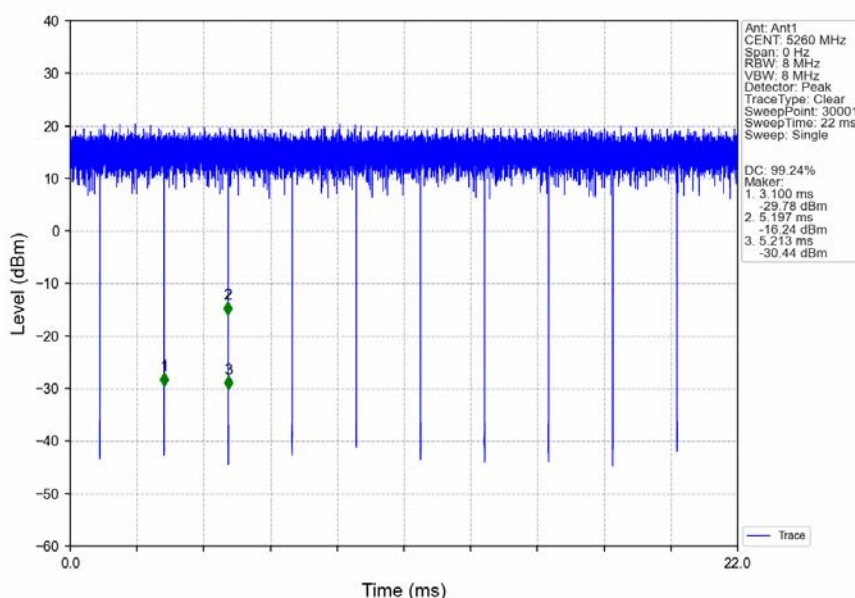
1.2.1 Ant1



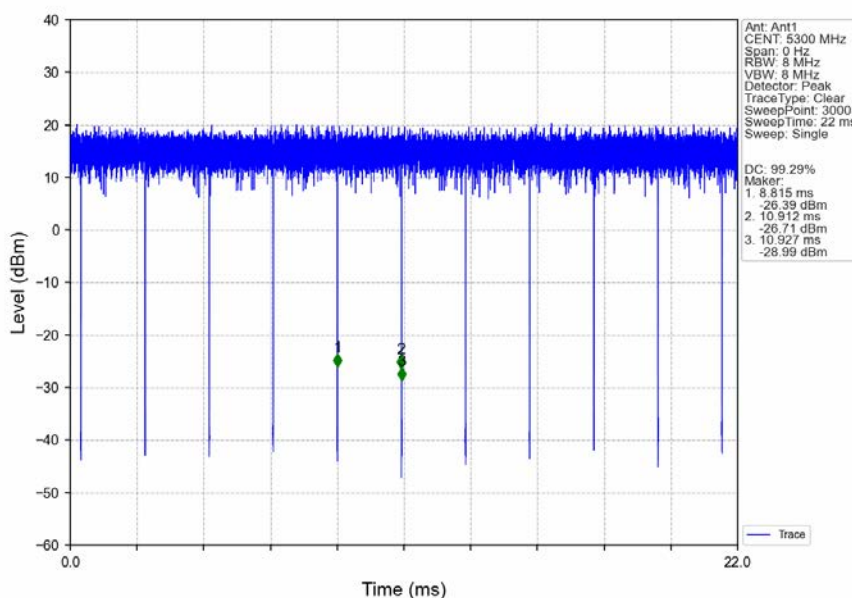
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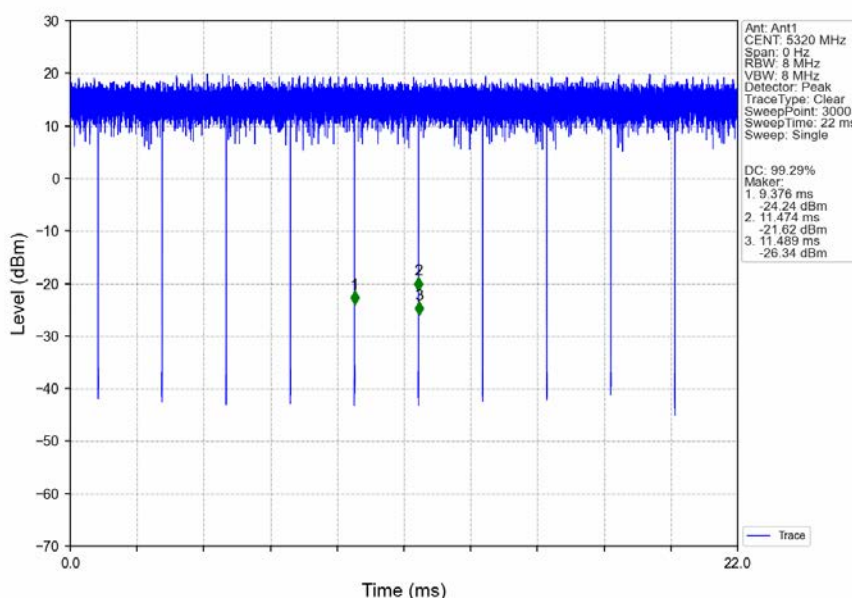
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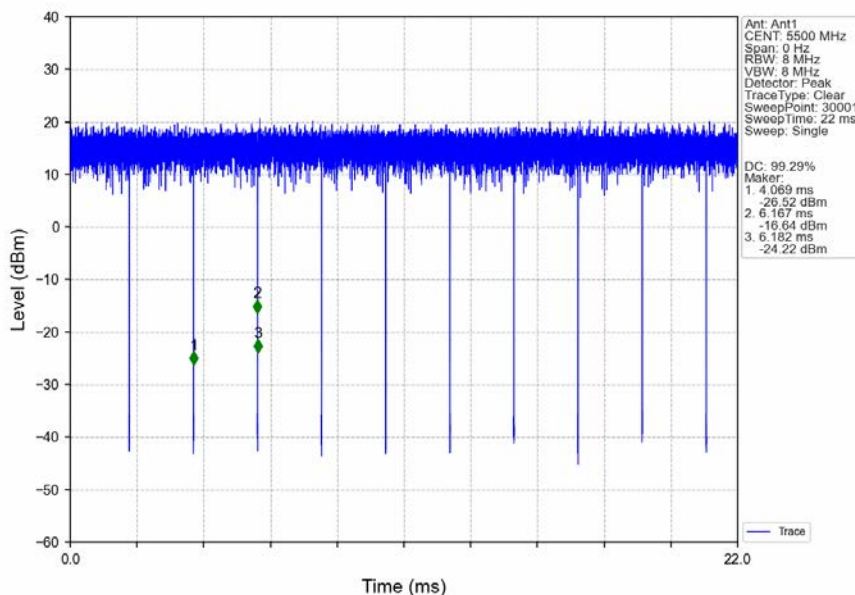
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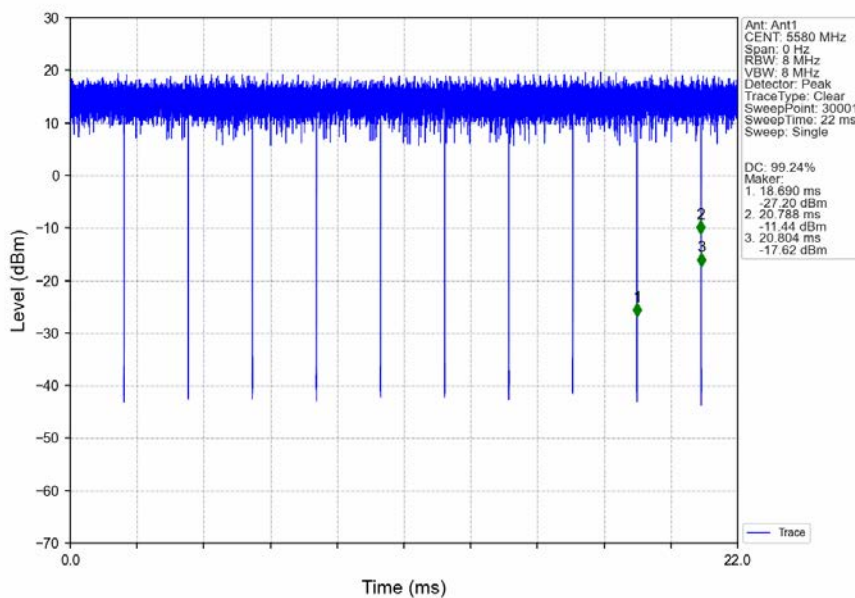
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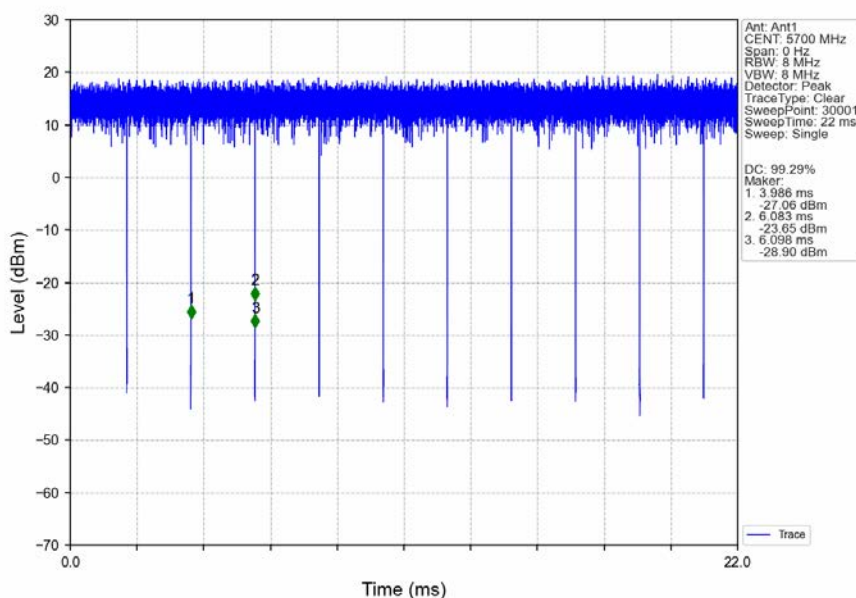
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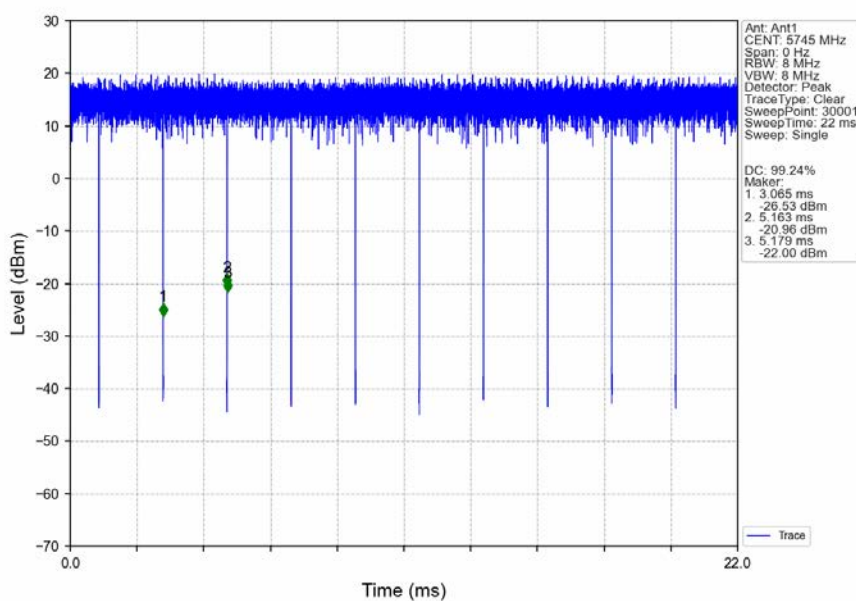
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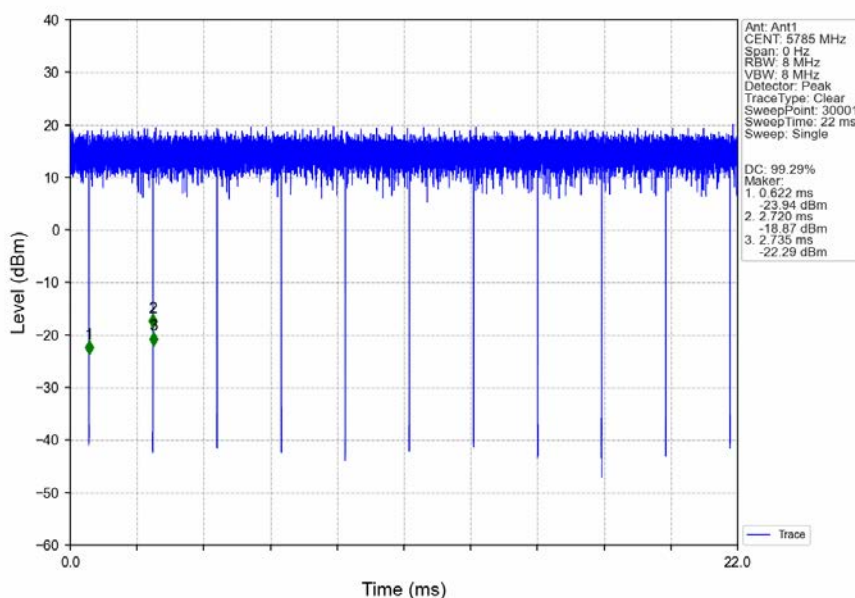
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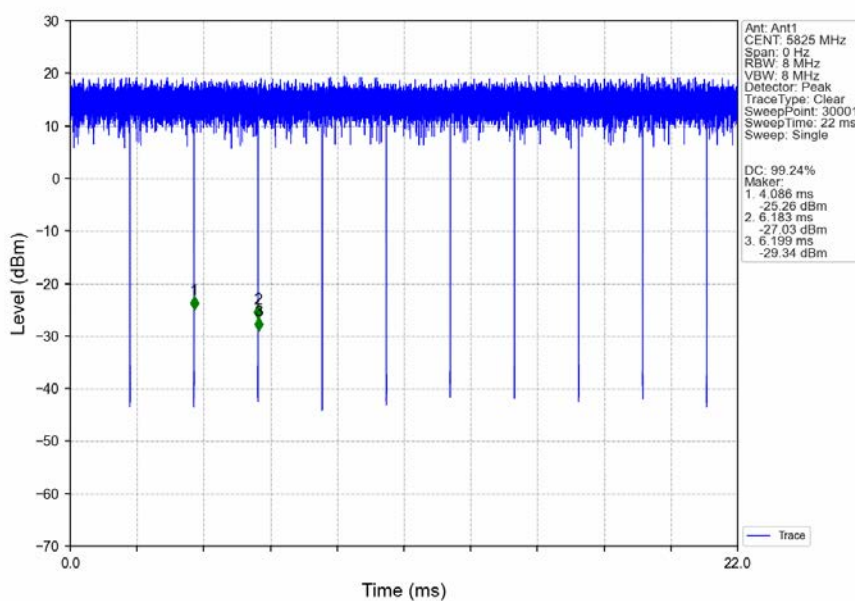
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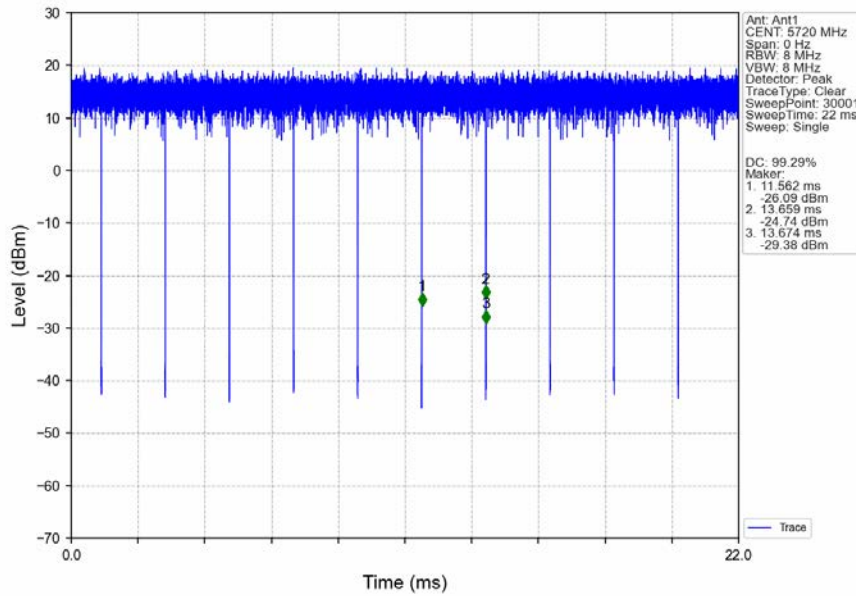
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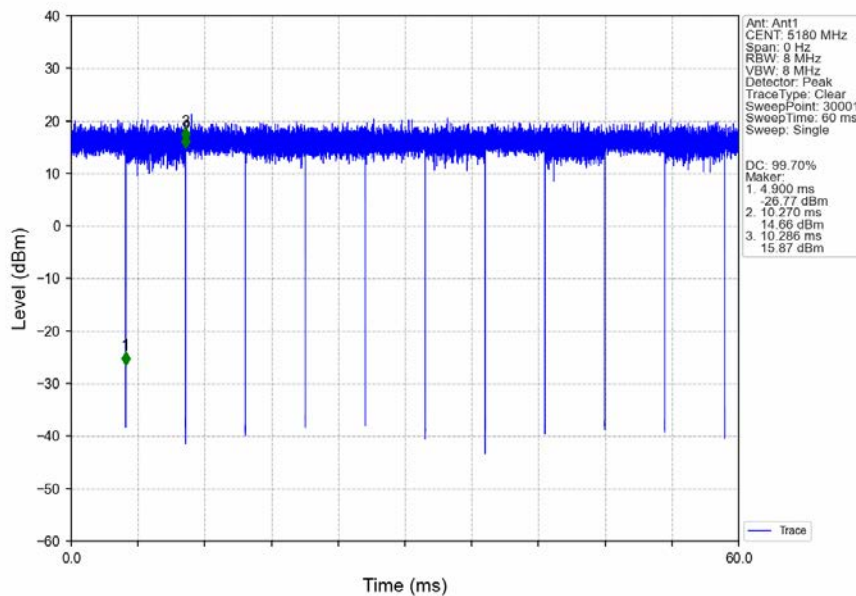
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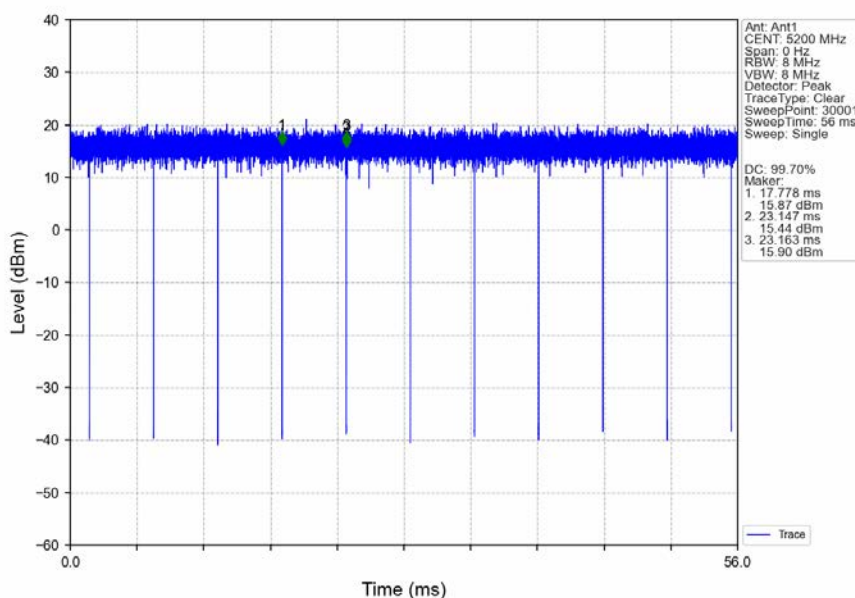
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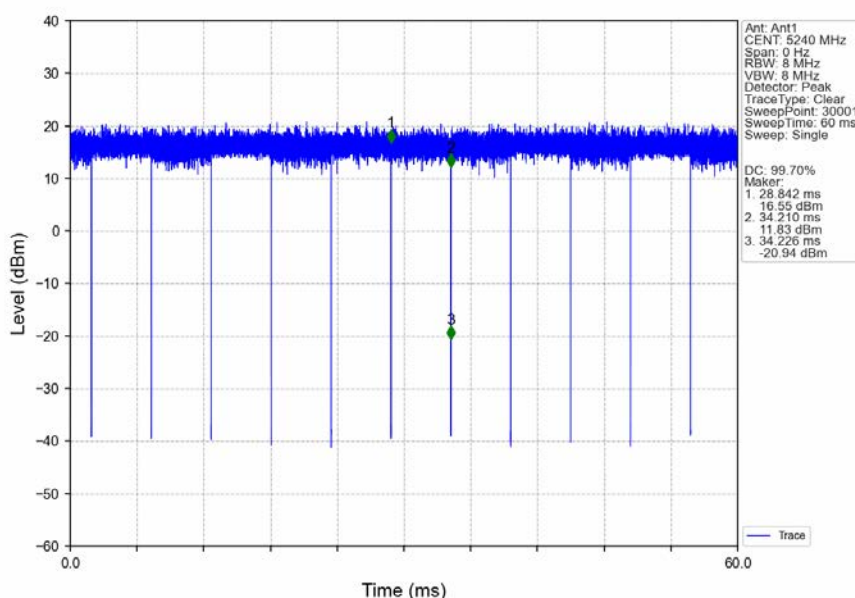
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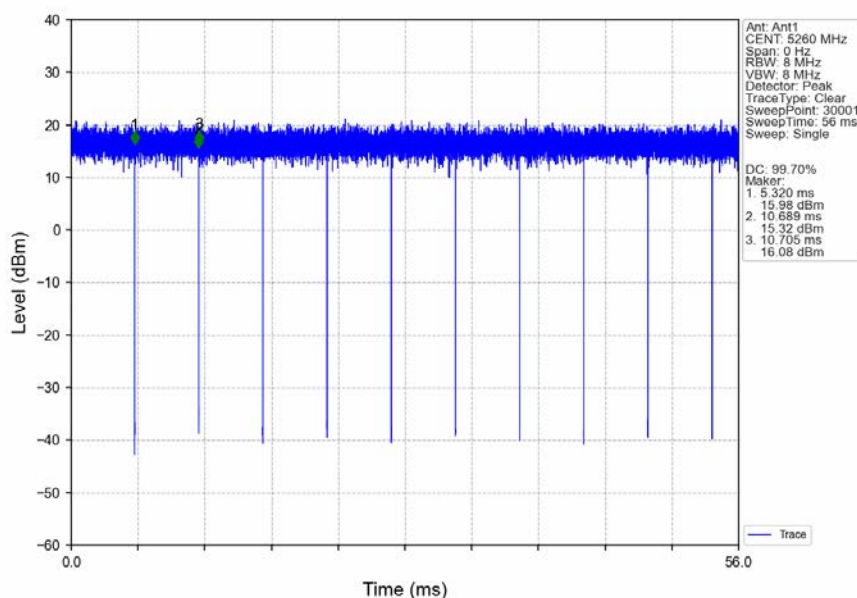
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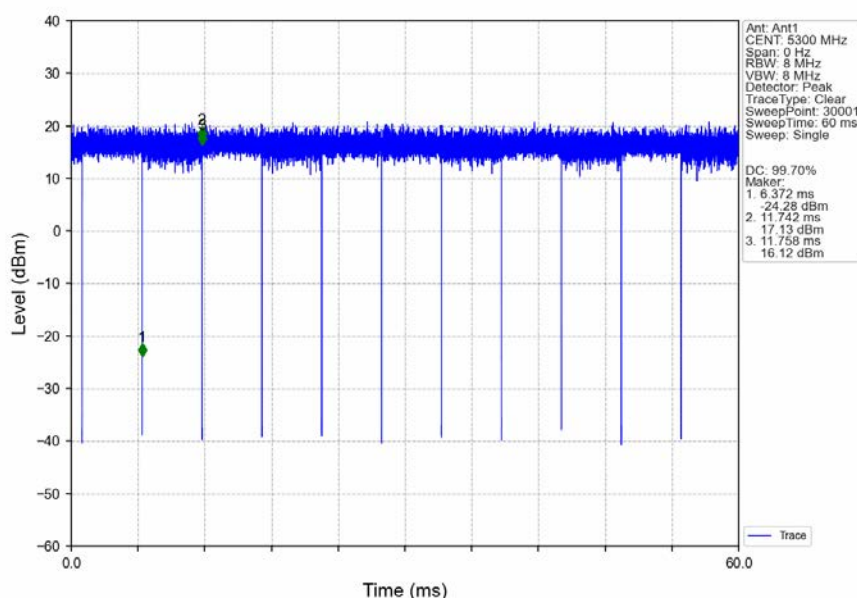
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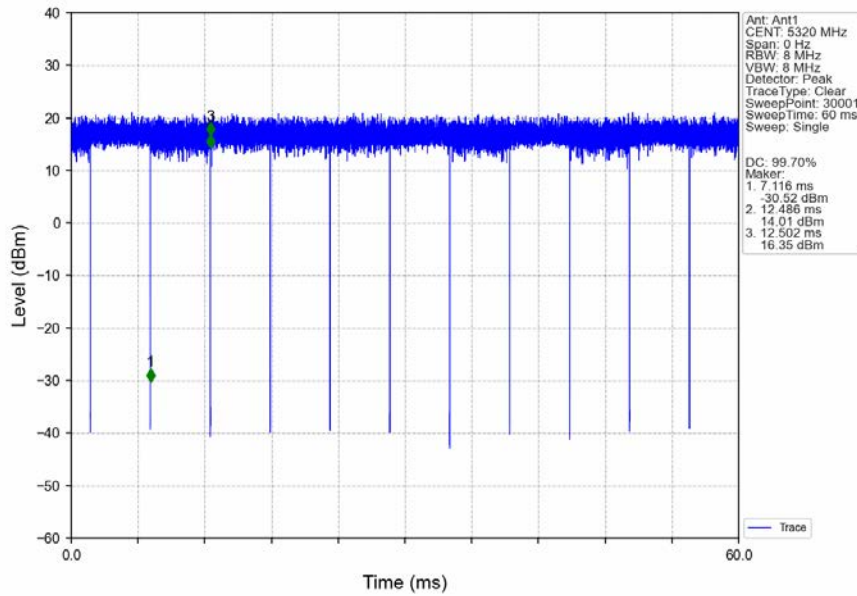
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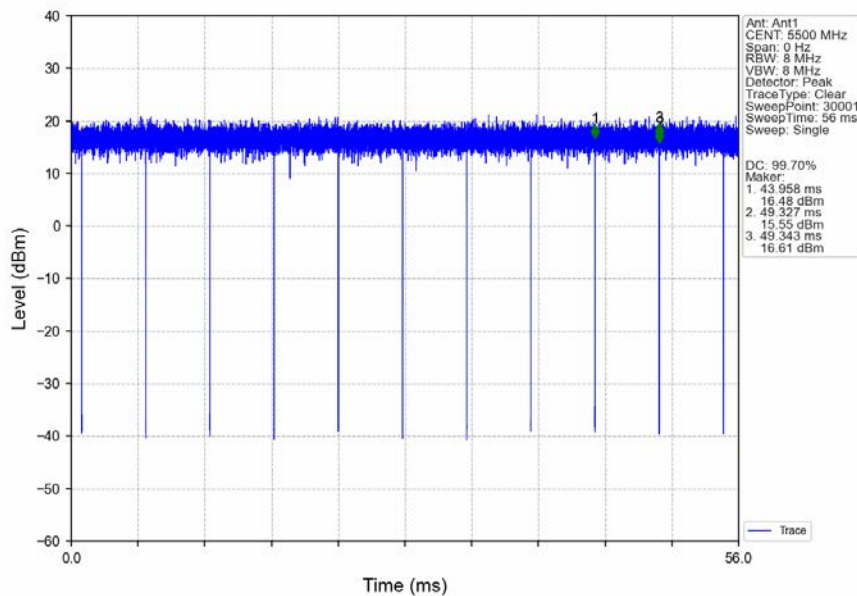
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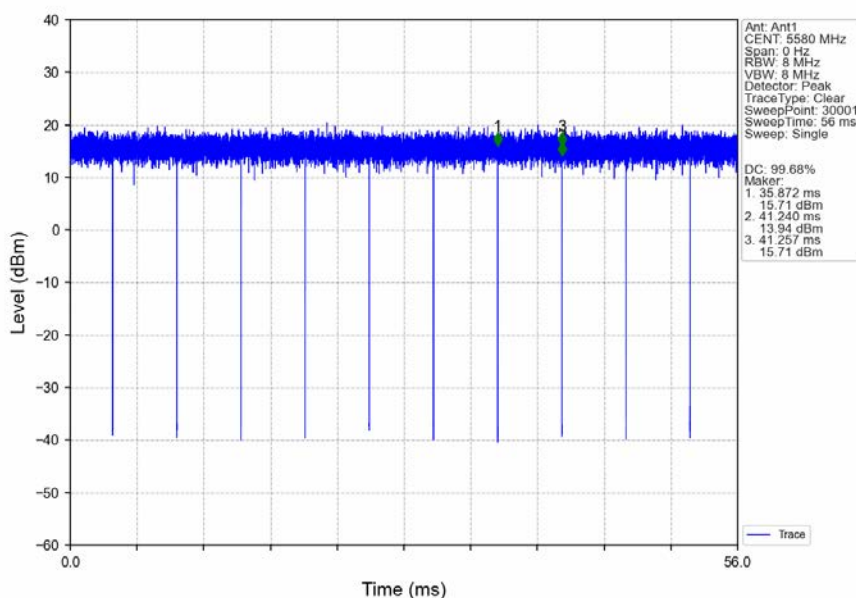
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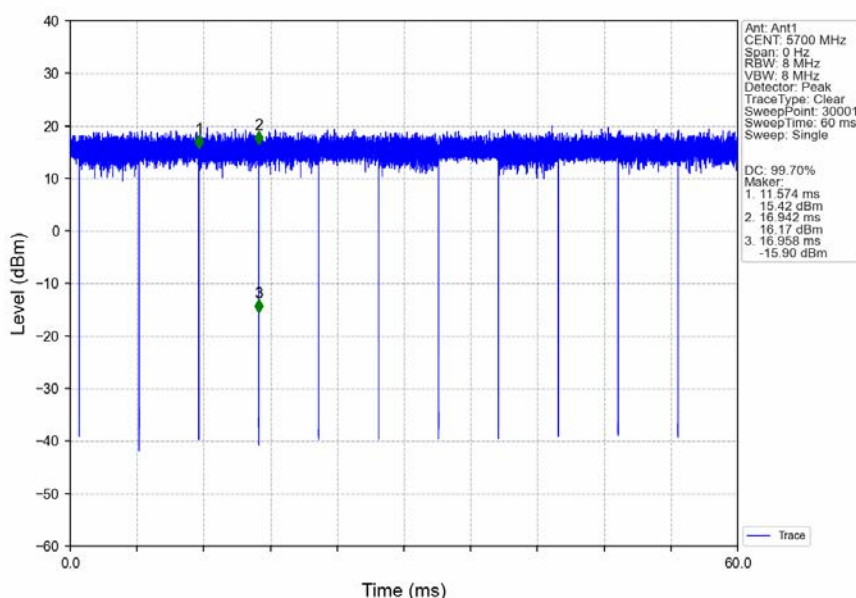
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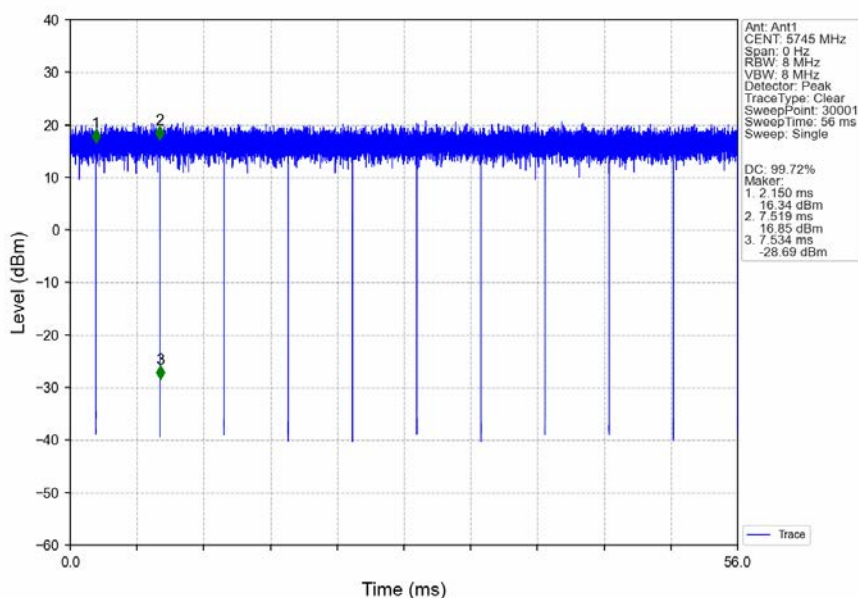
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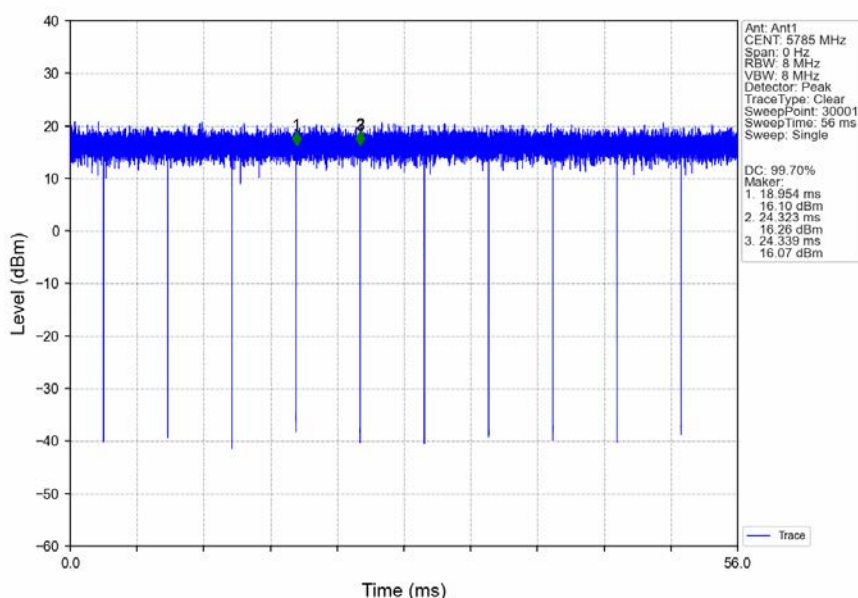
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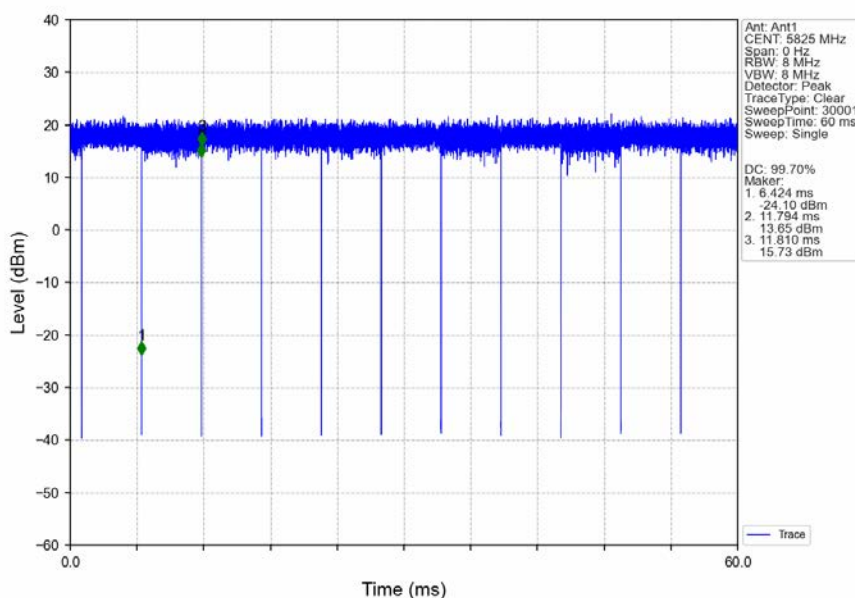
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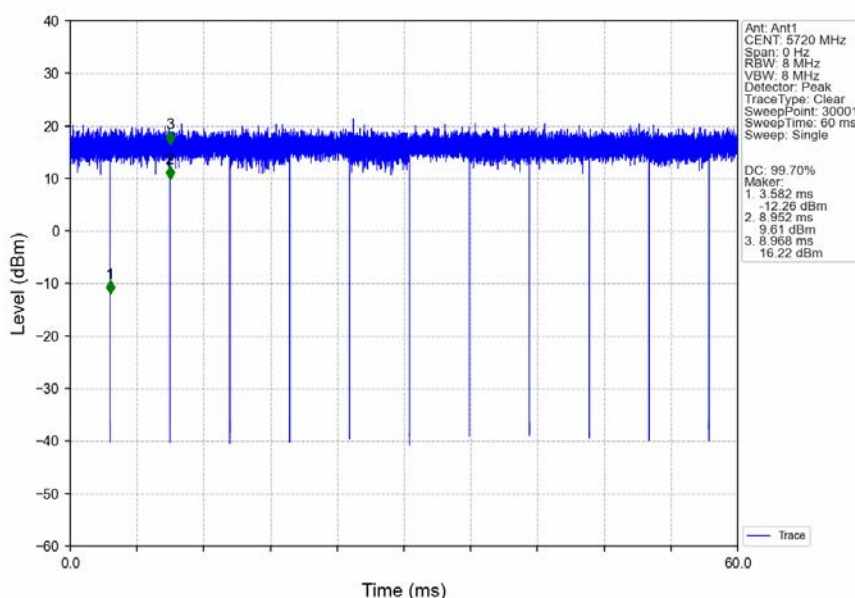
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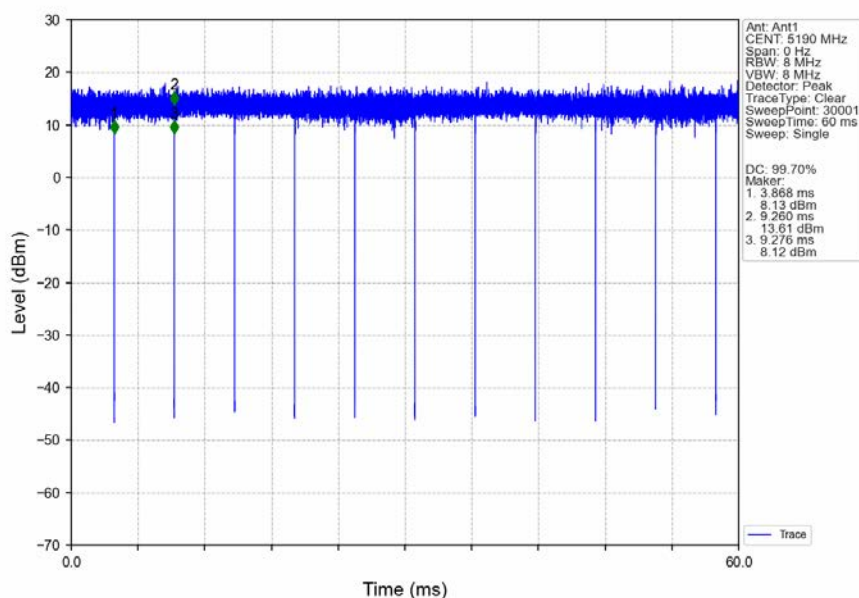
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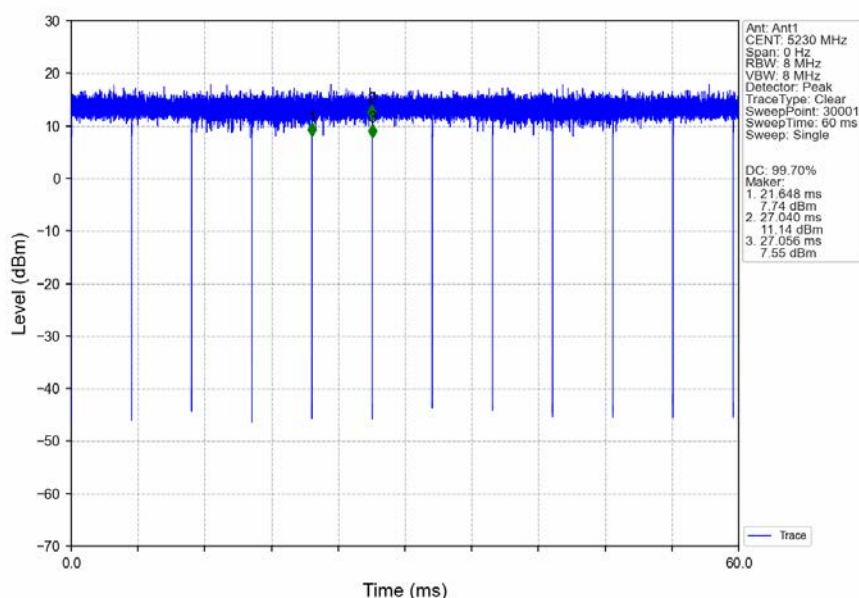
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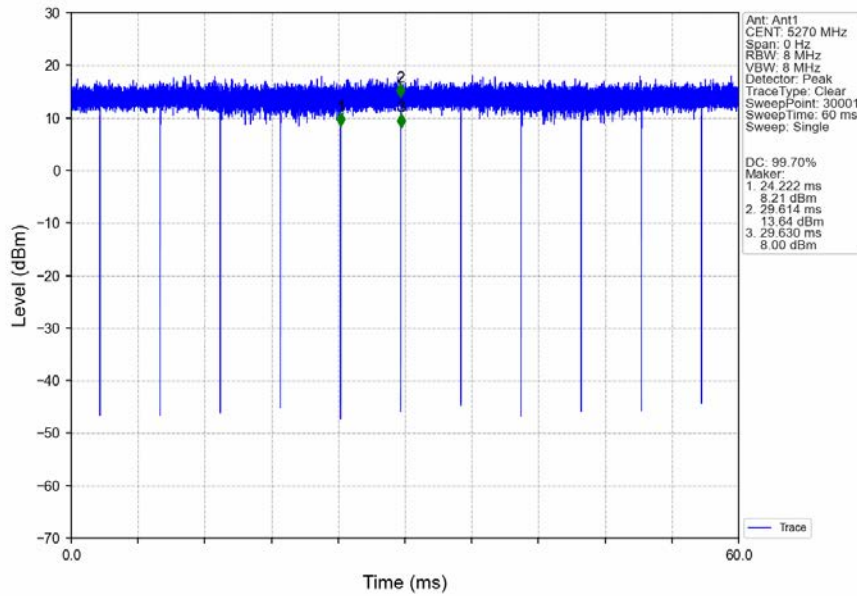
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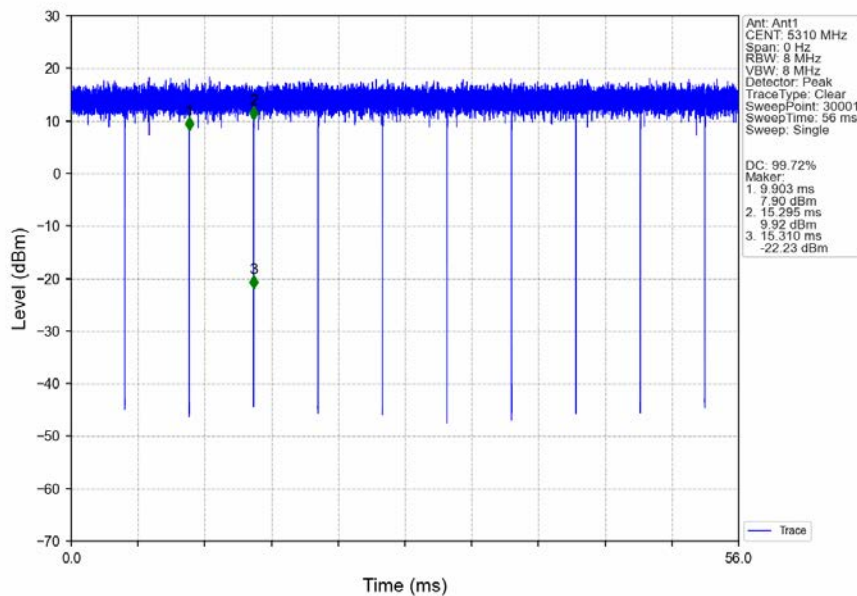
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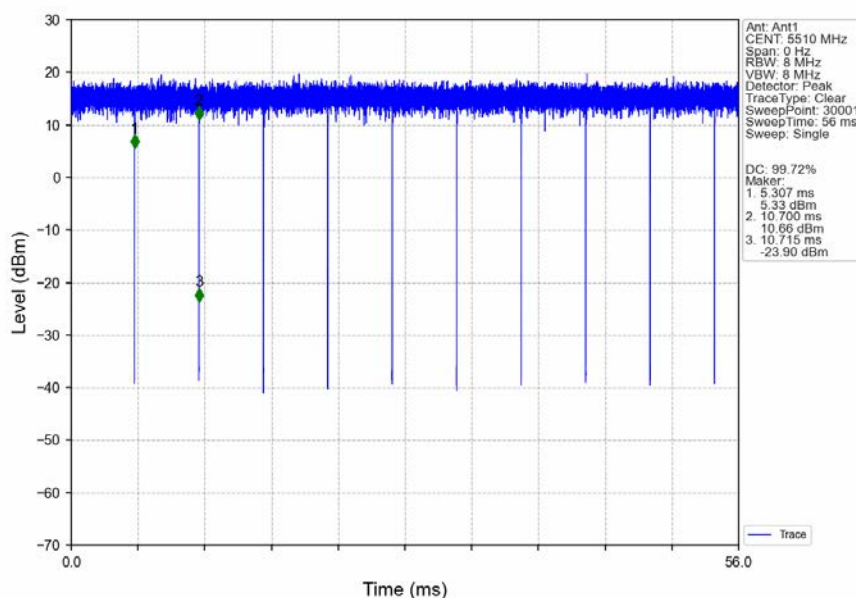
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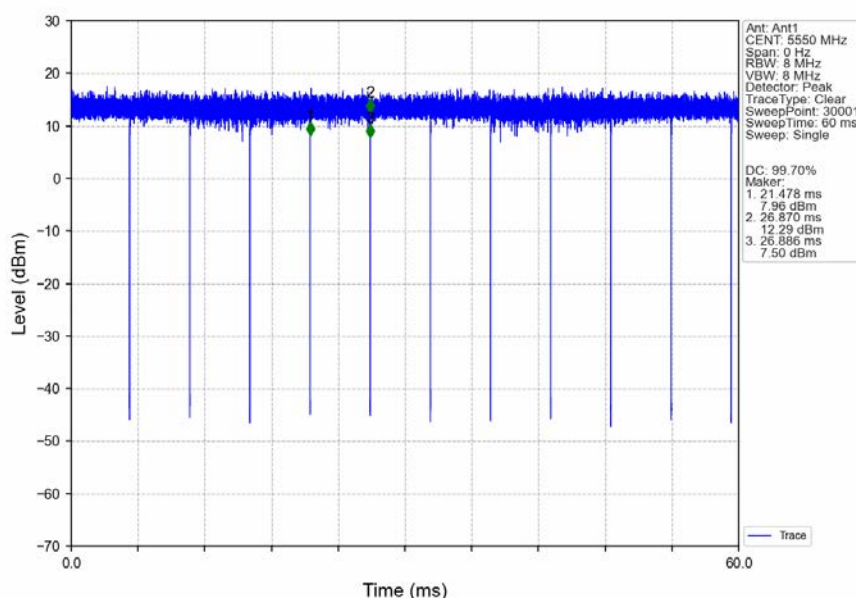
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802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



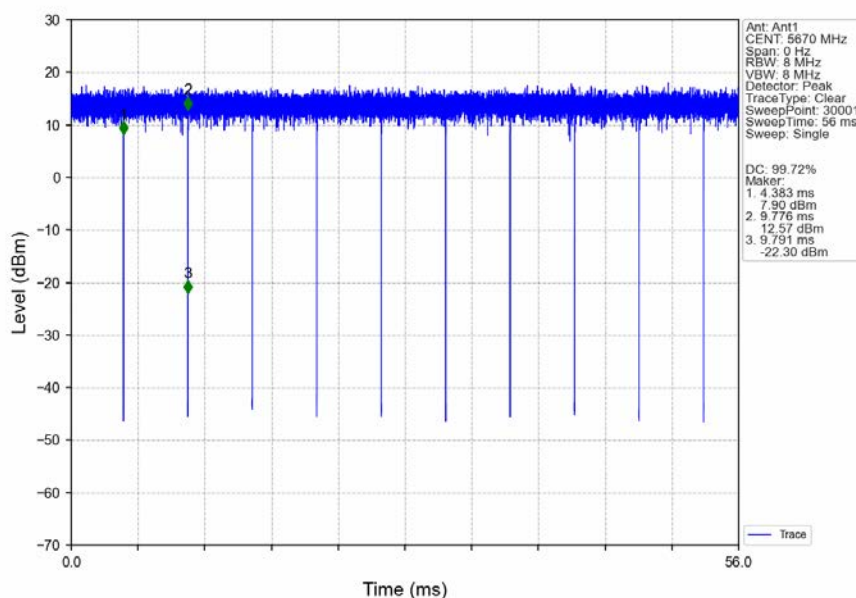
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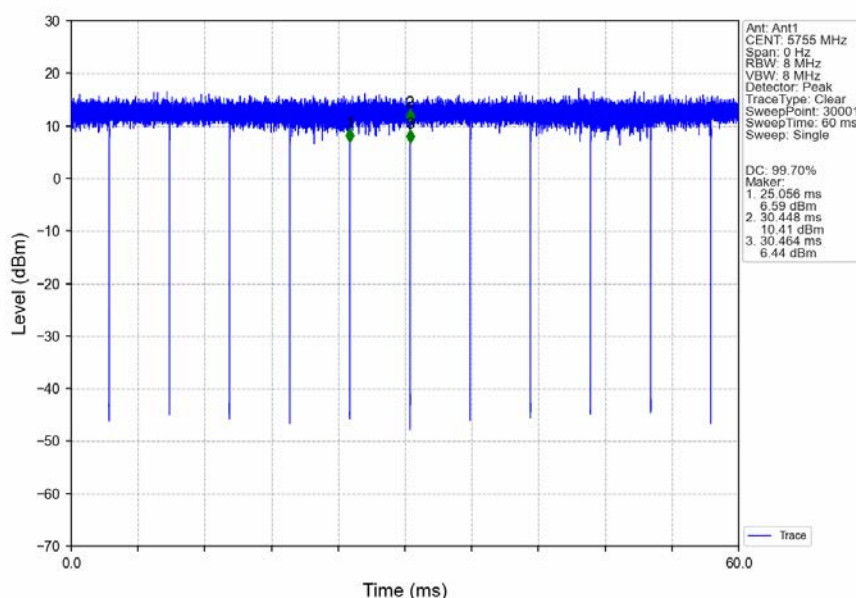
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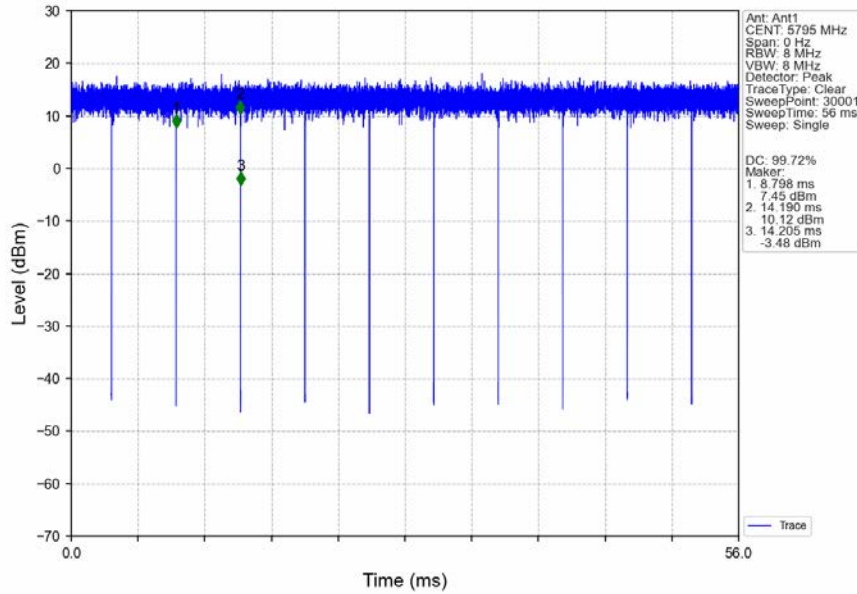
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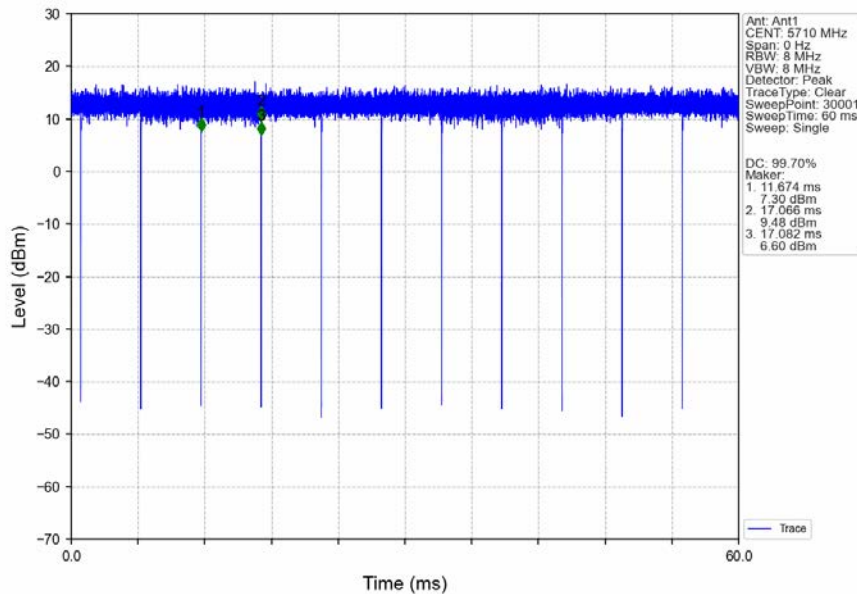
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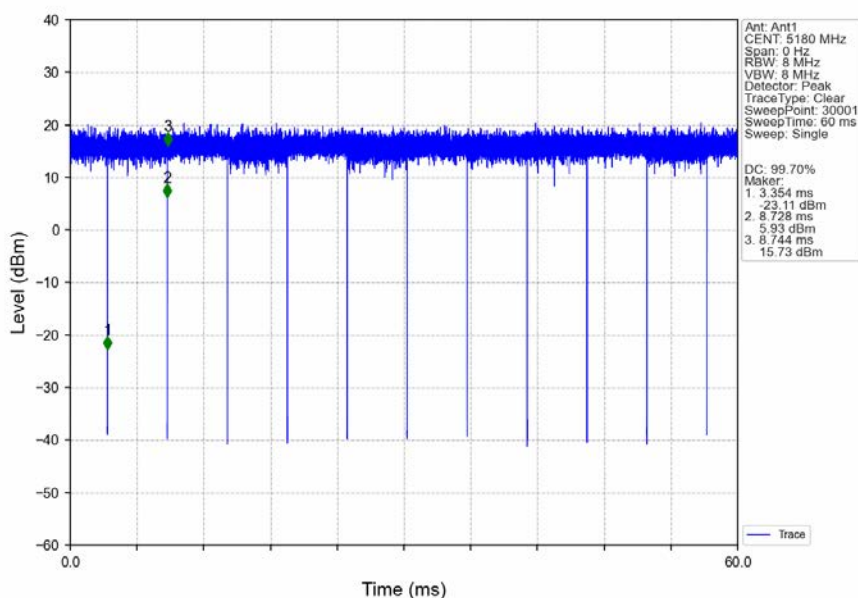
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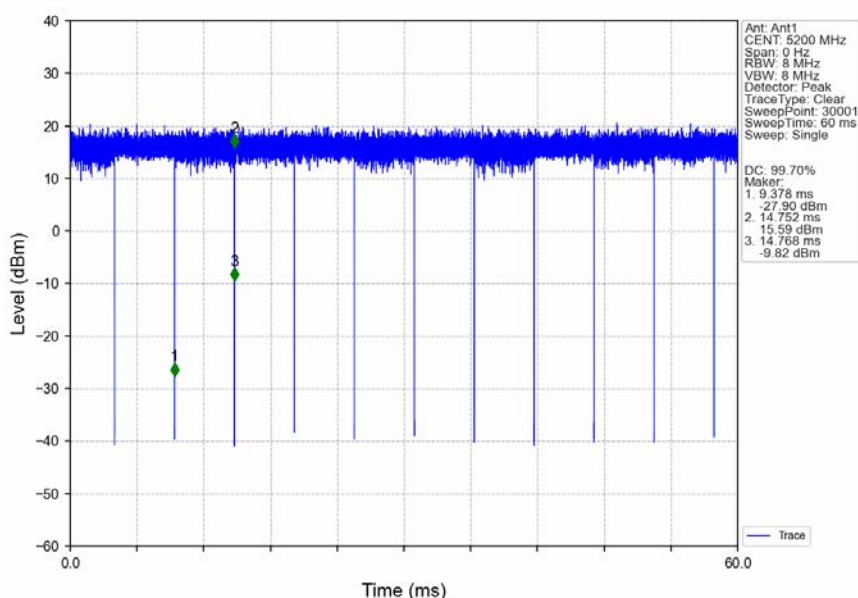
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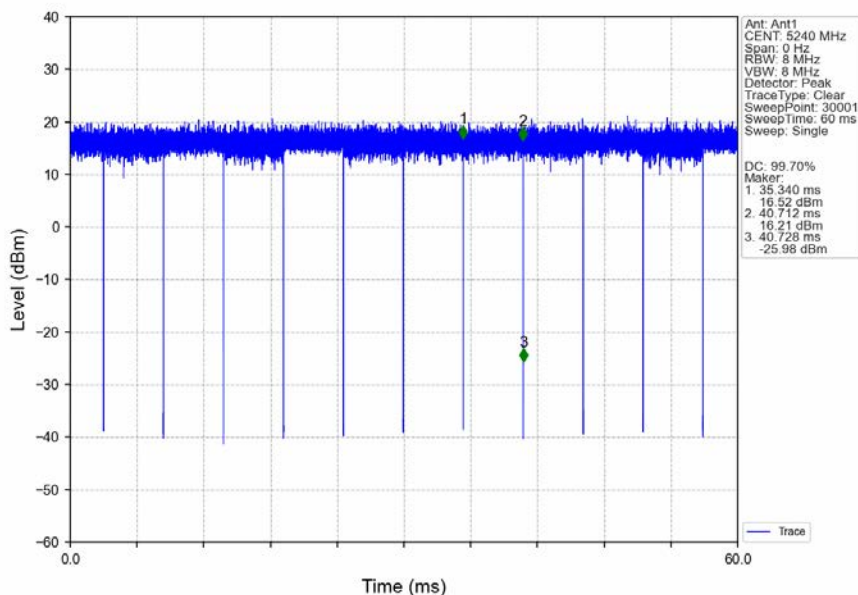
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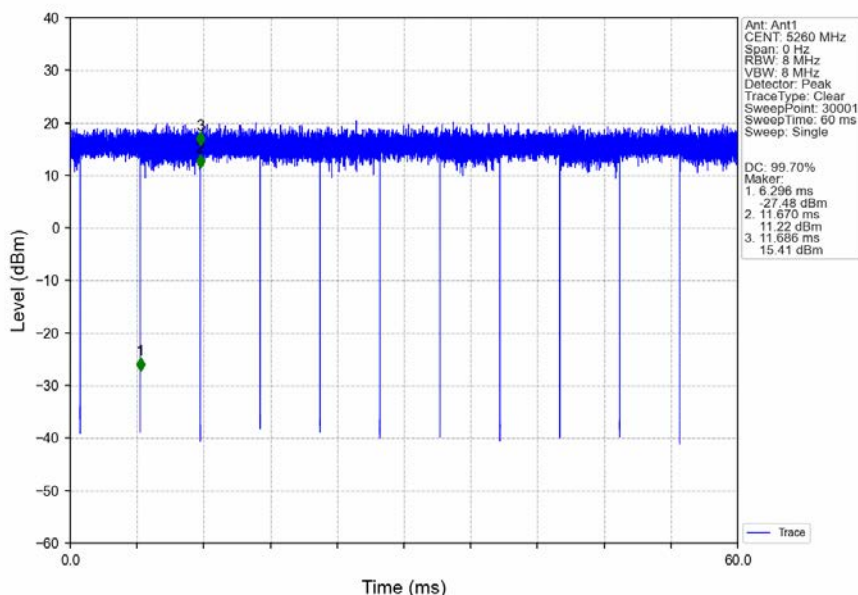
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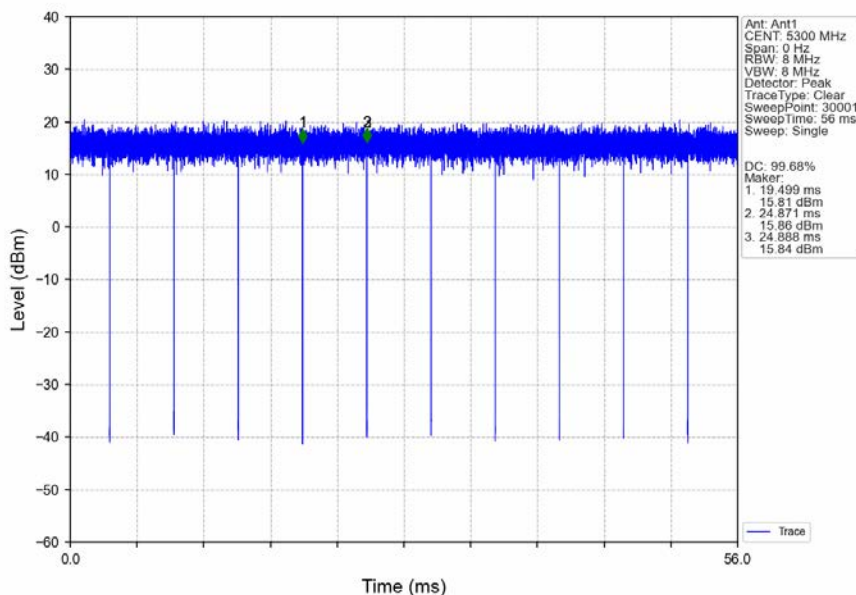
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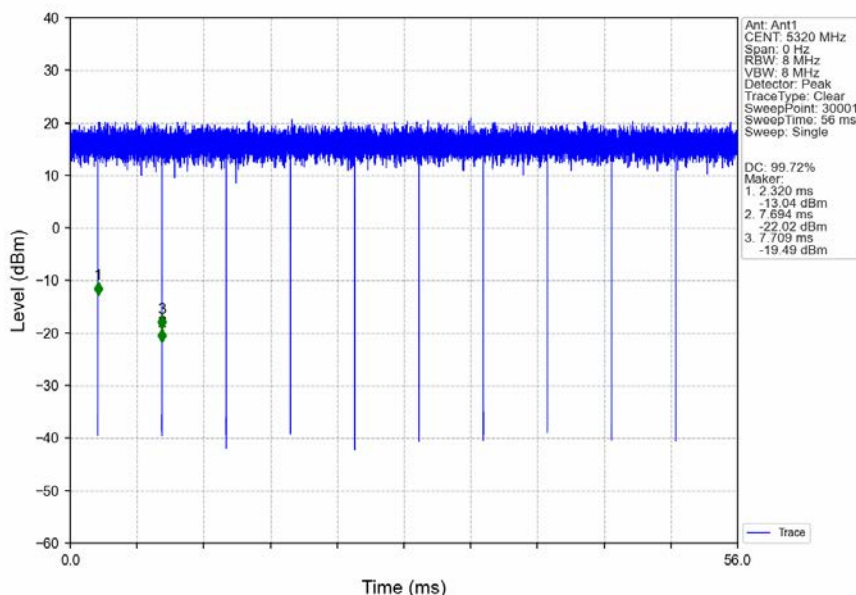
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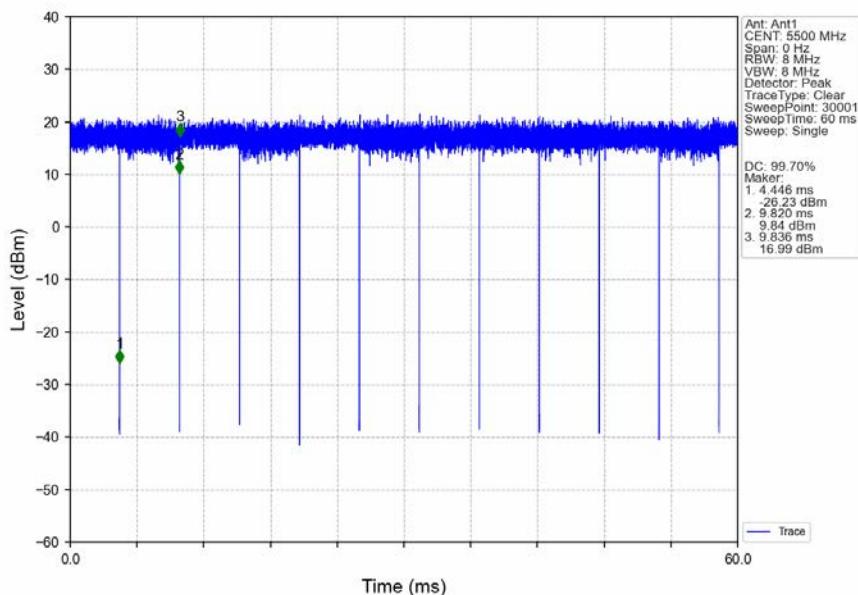
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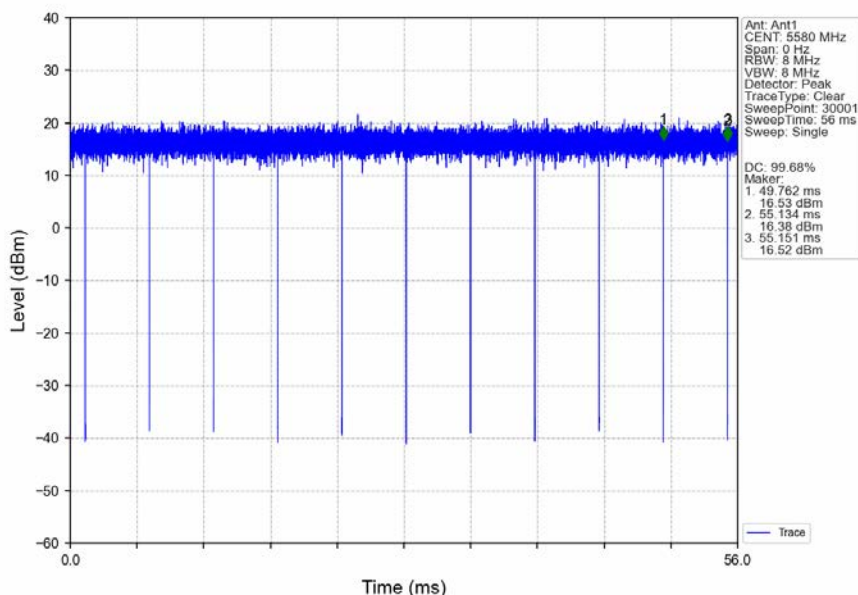
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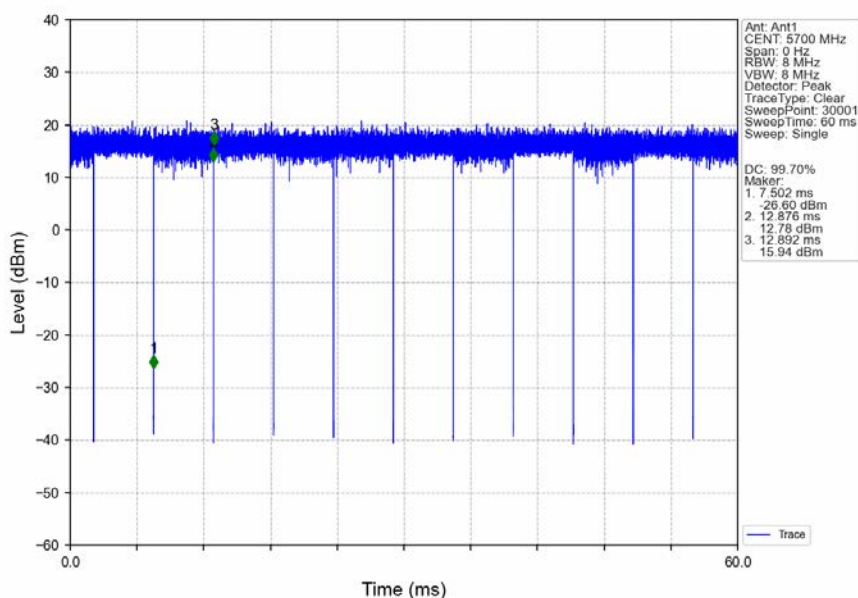
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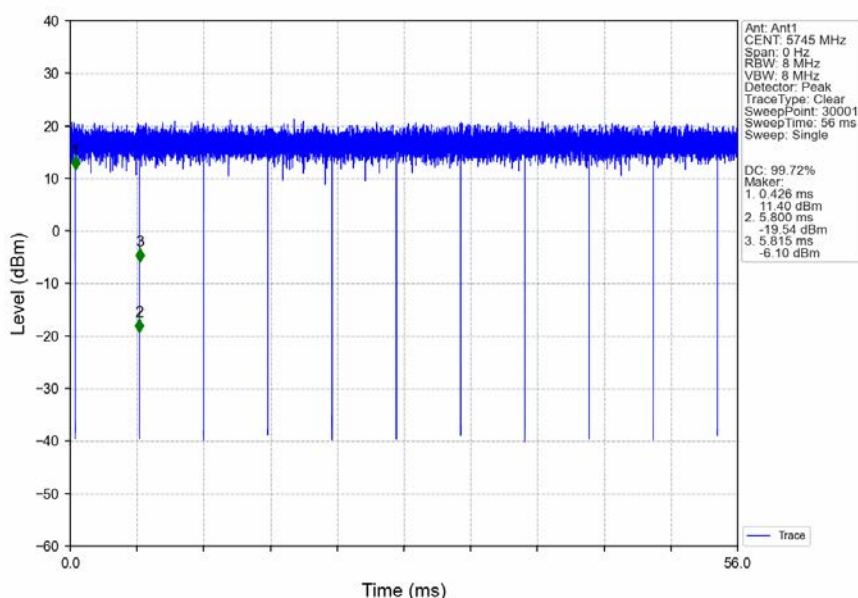
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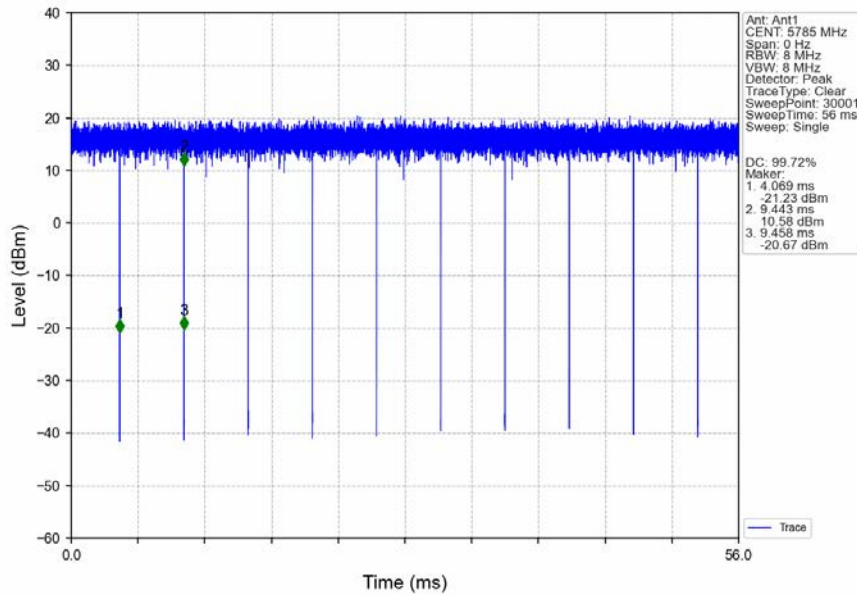
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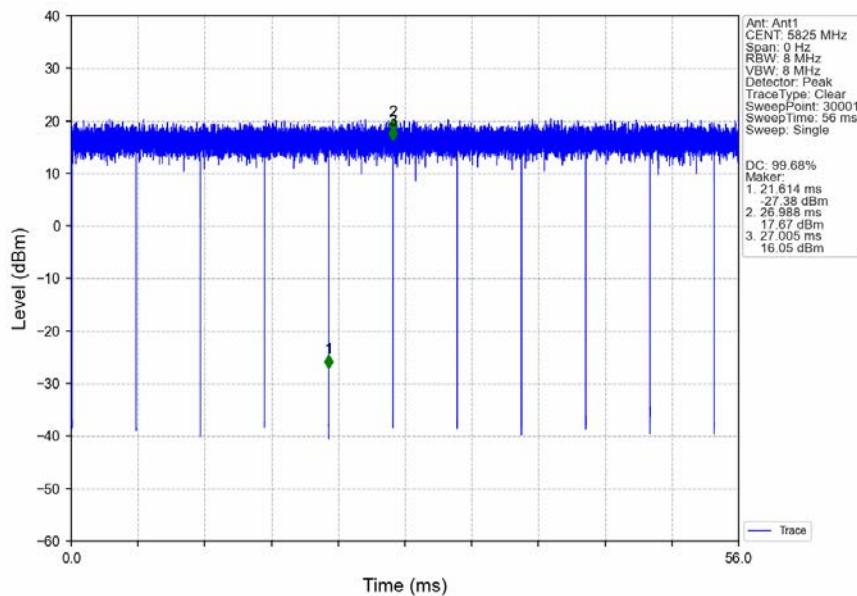
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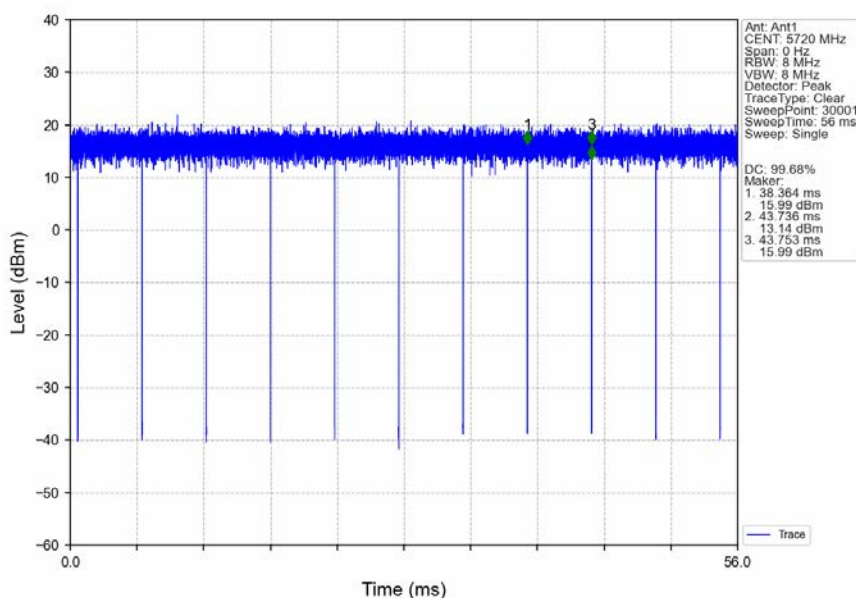
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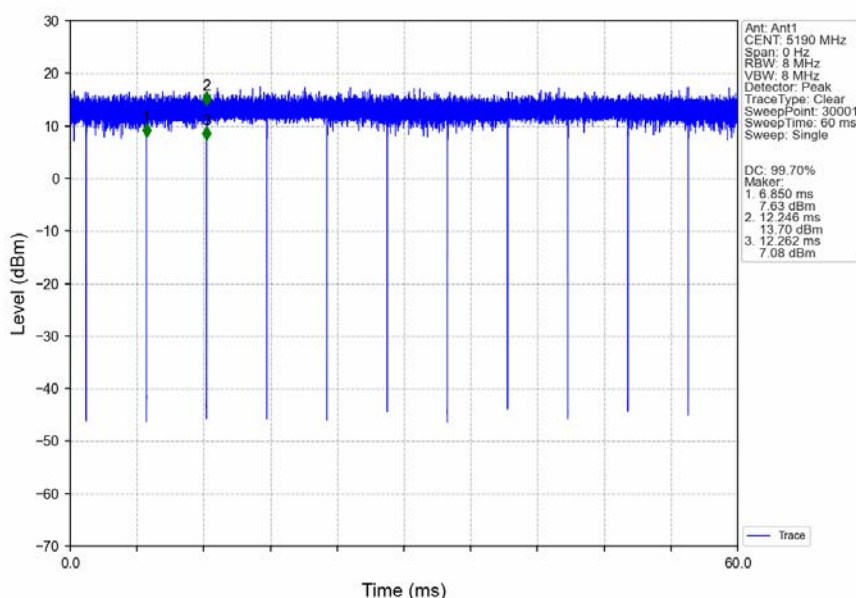
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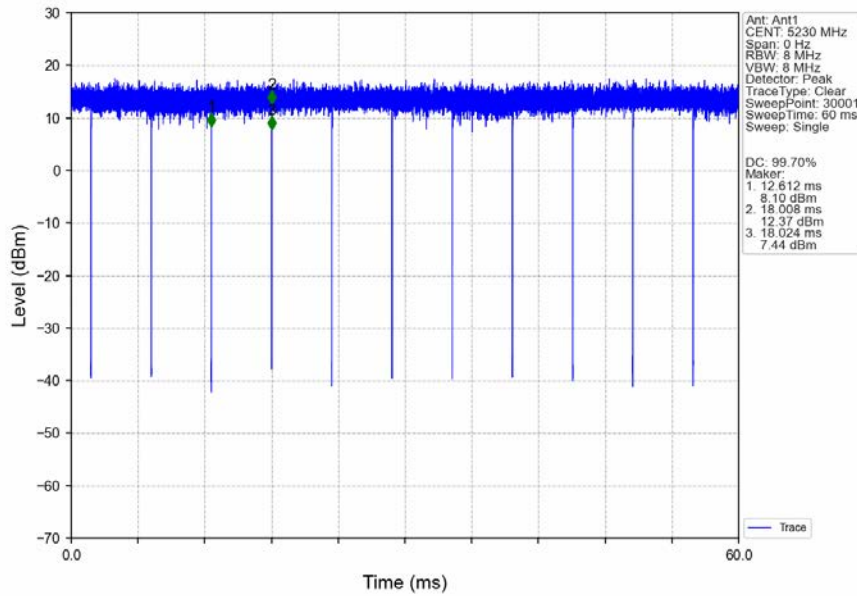
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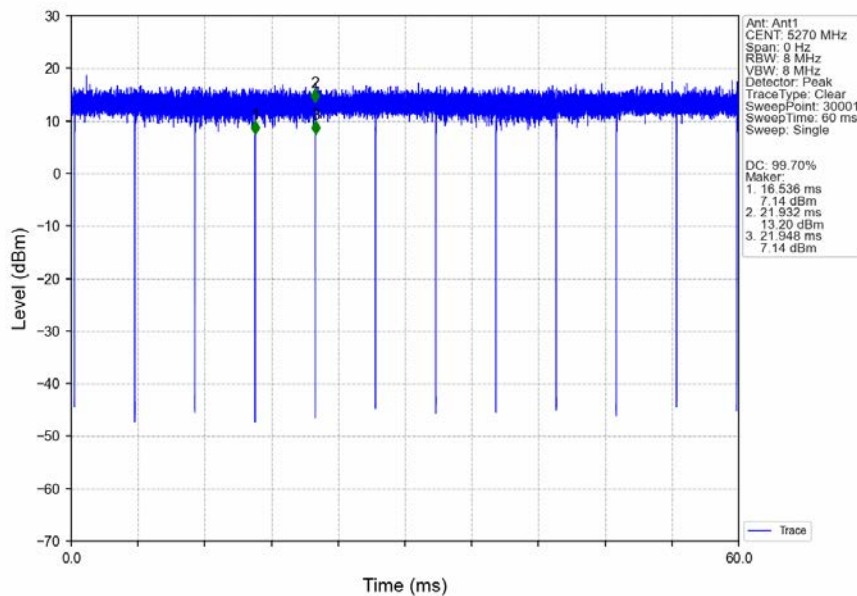
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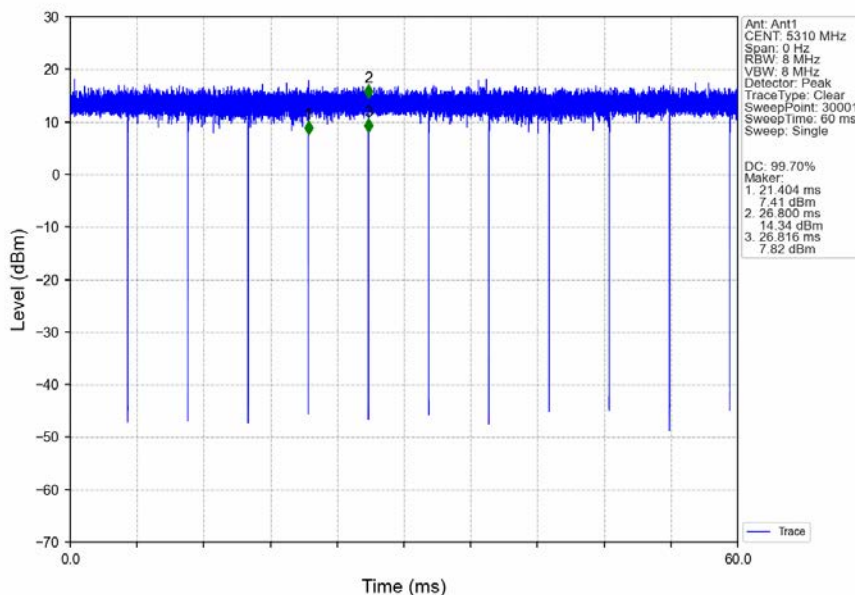
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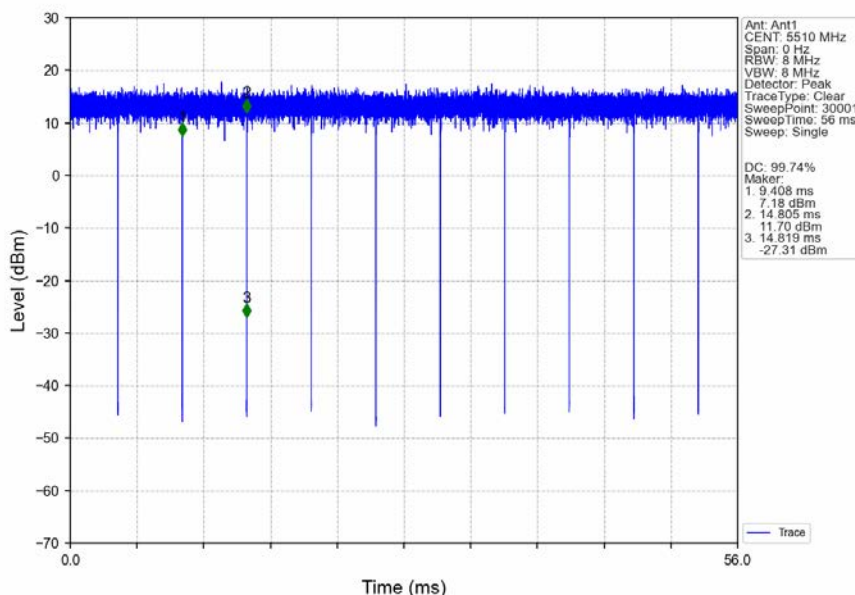
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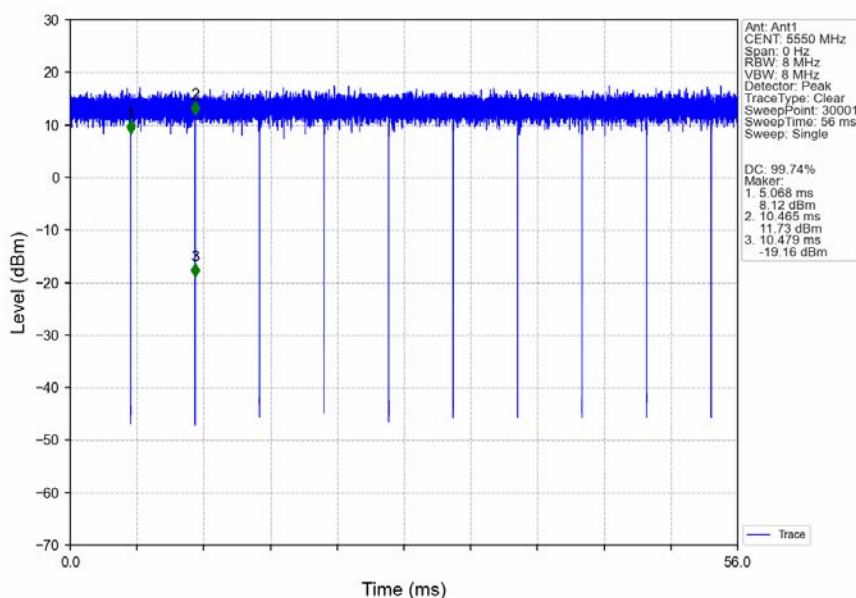
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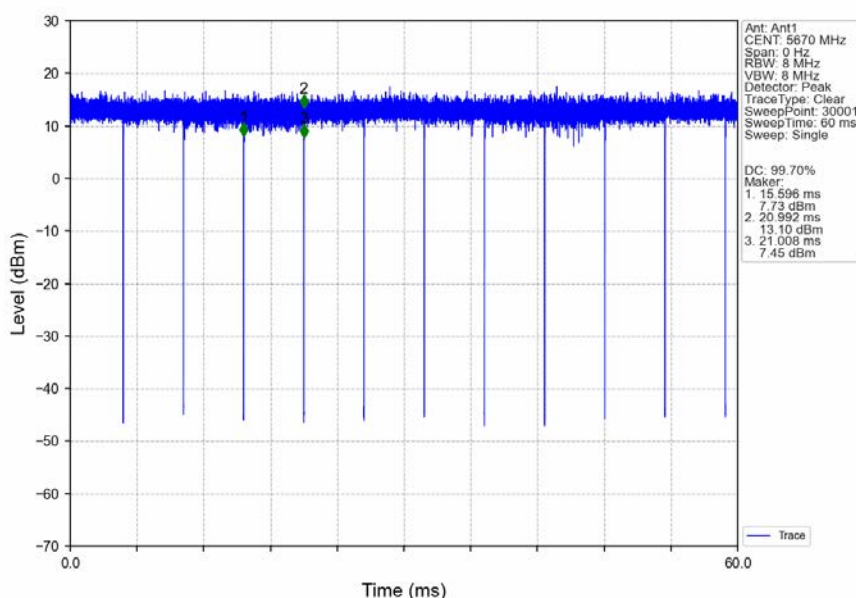
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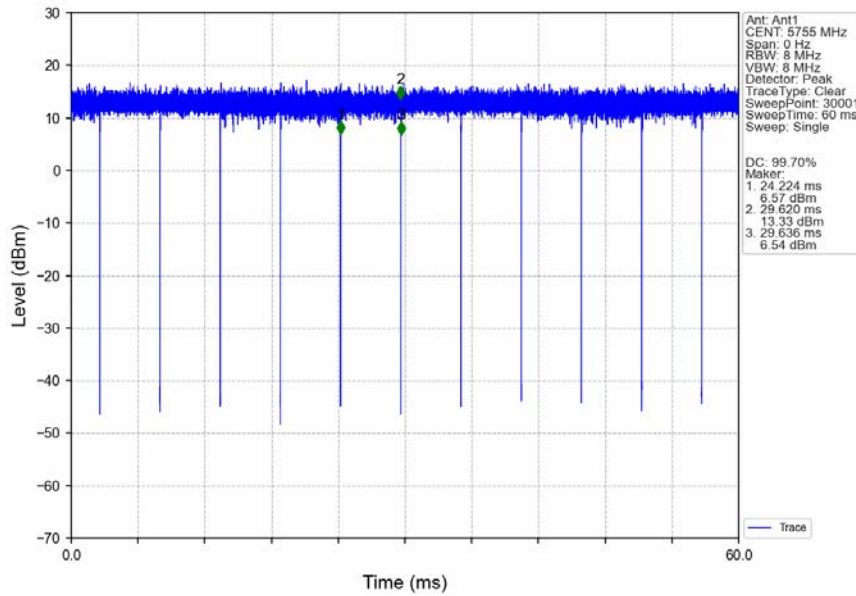
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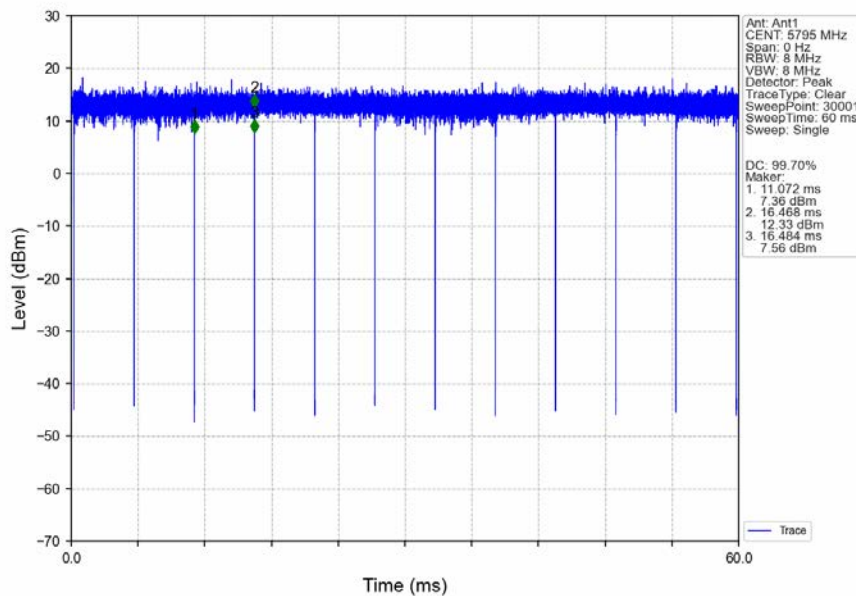
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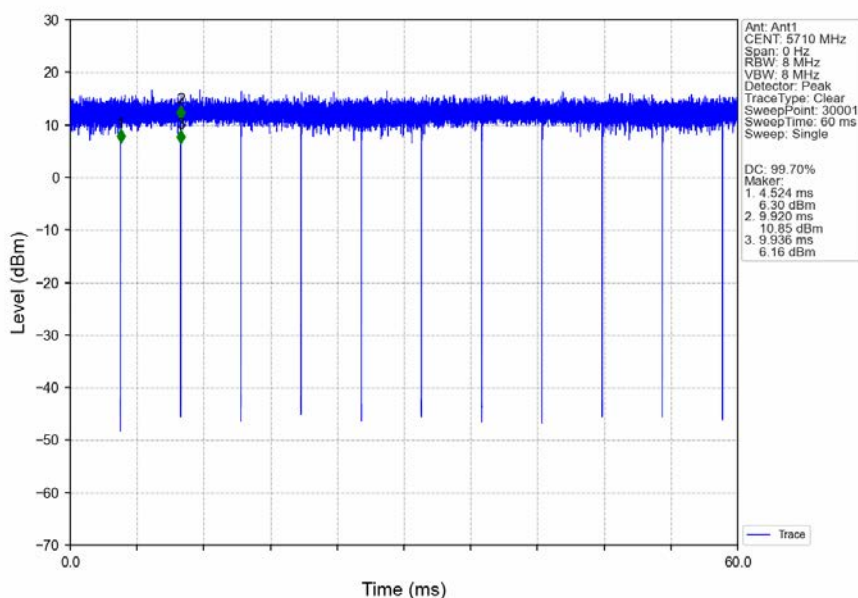
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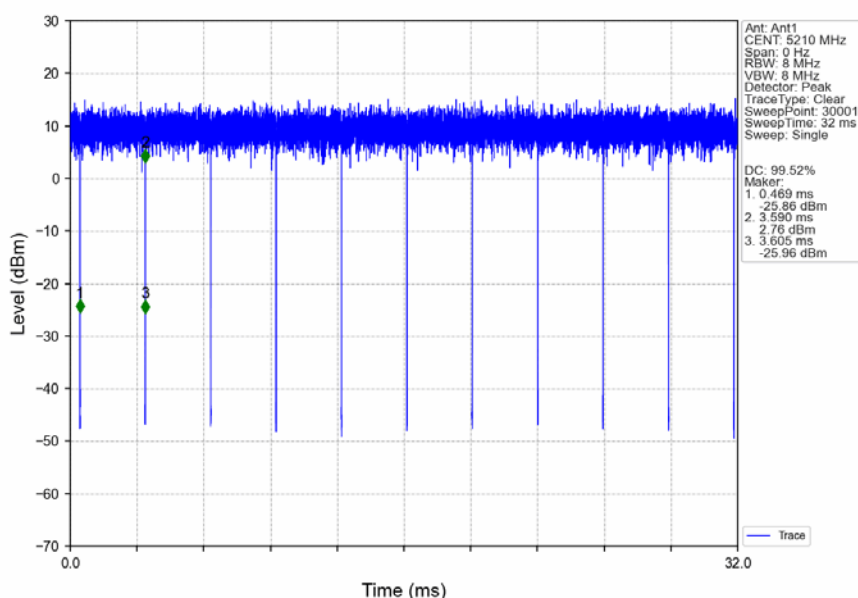
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802.11ac(VHT40)_HCH_5710MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



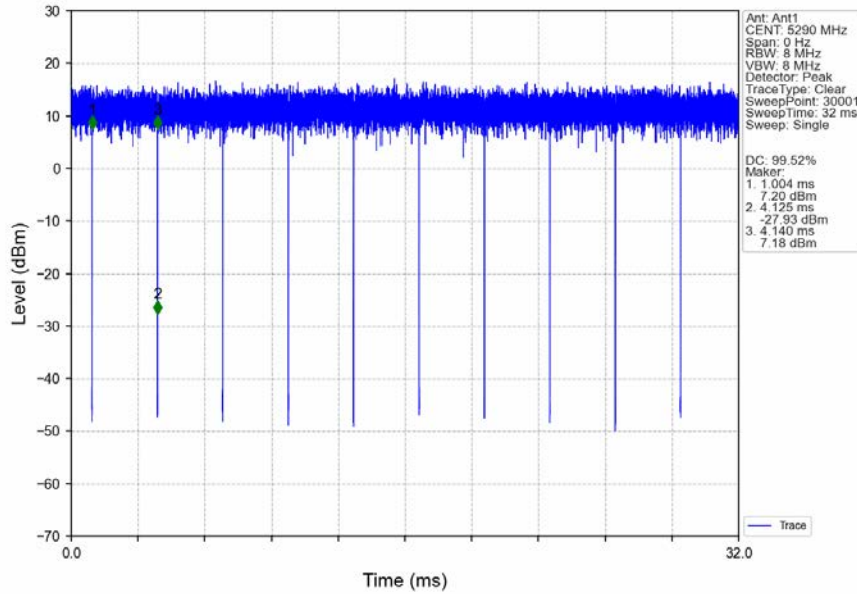
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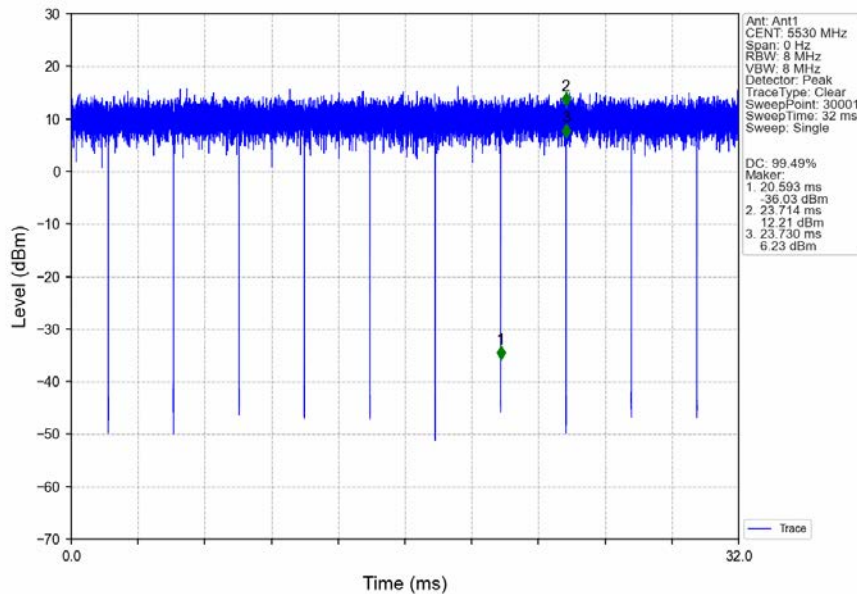
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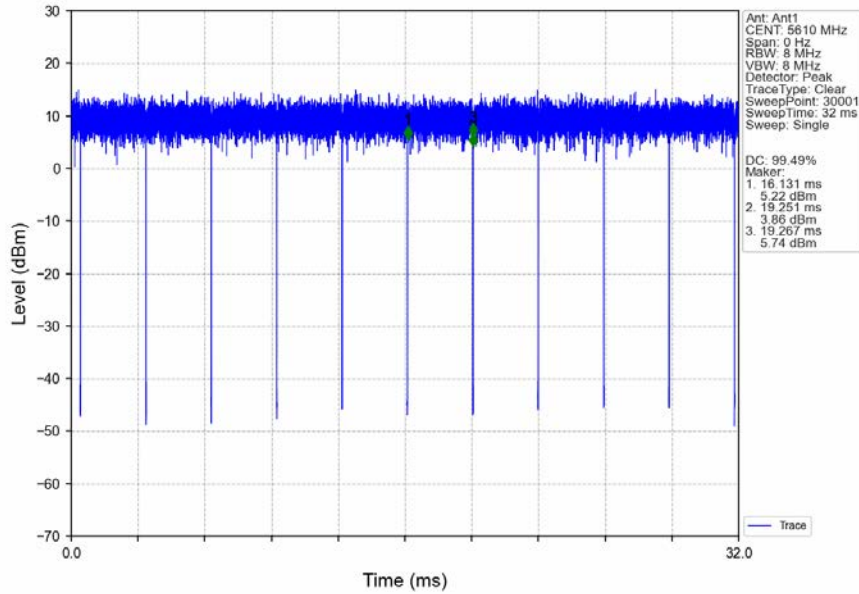
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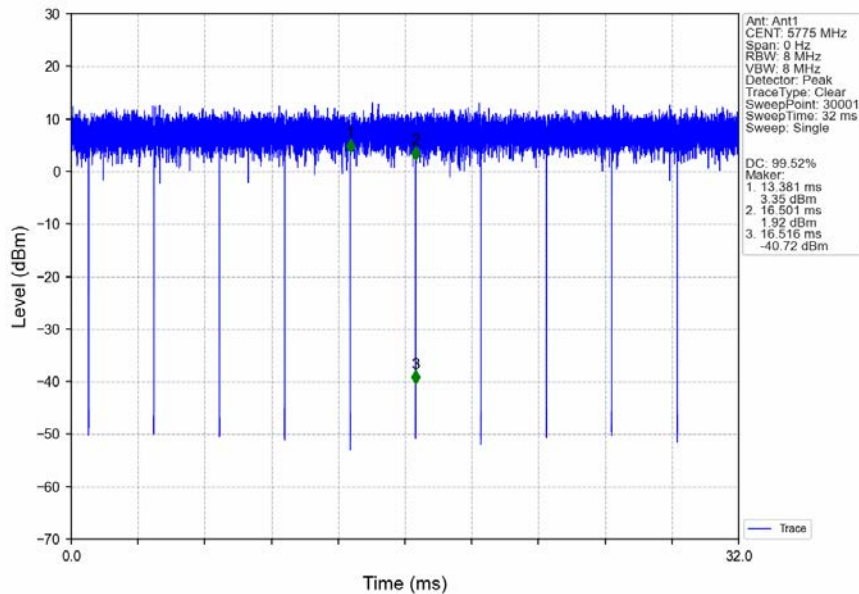
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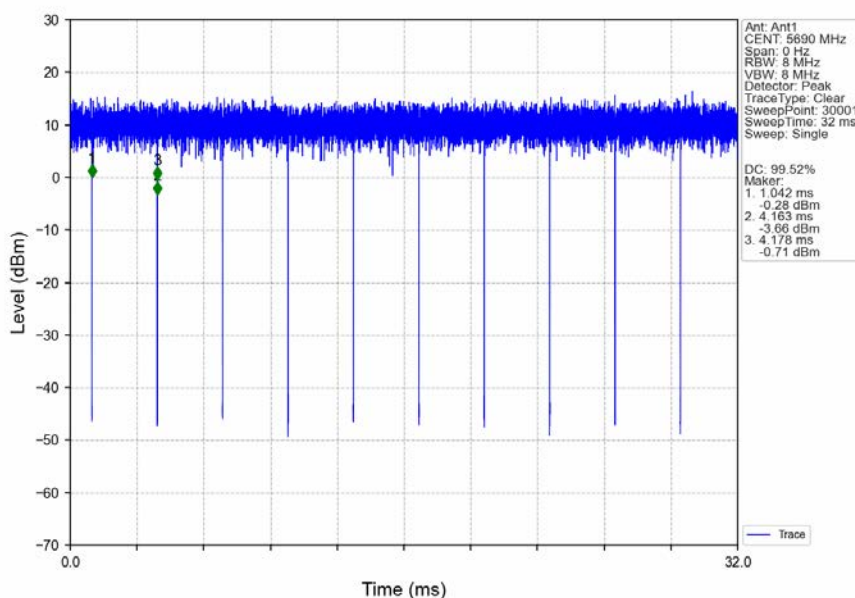
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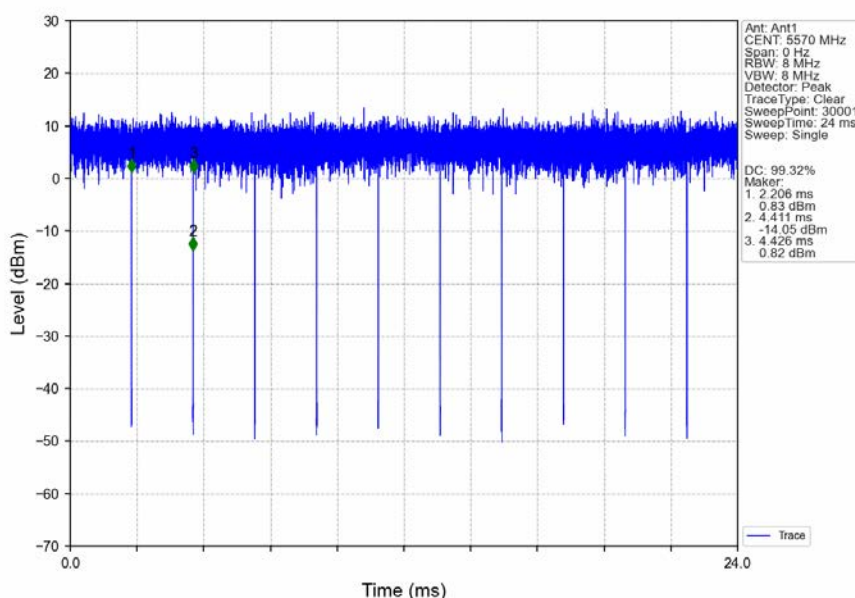
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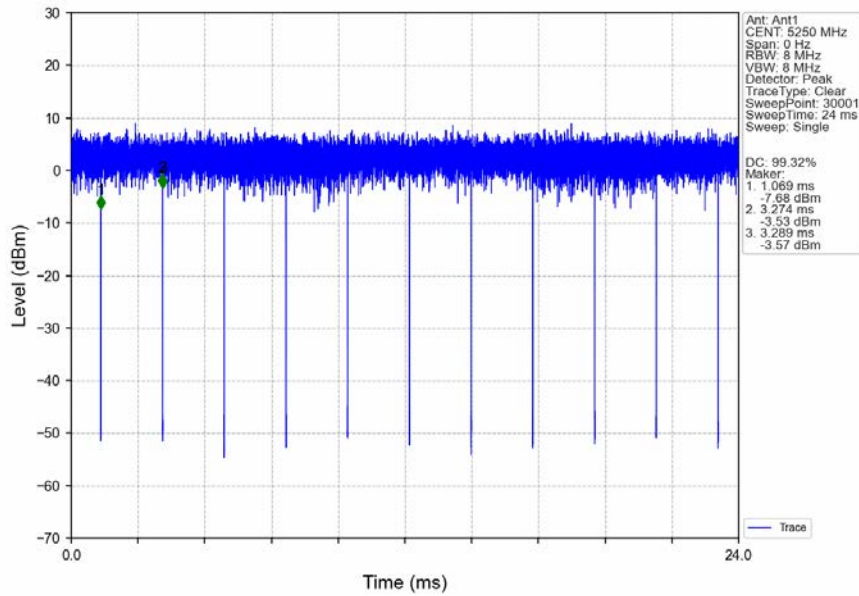
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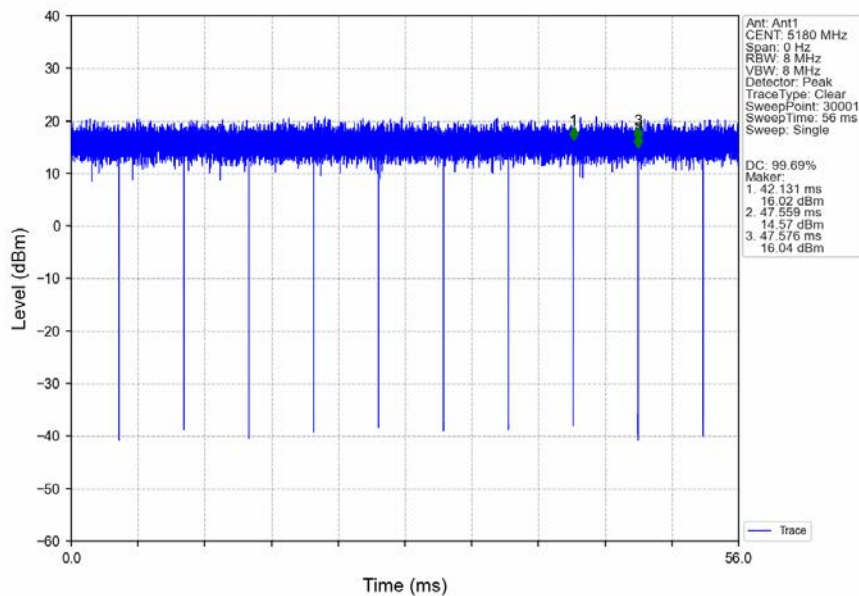
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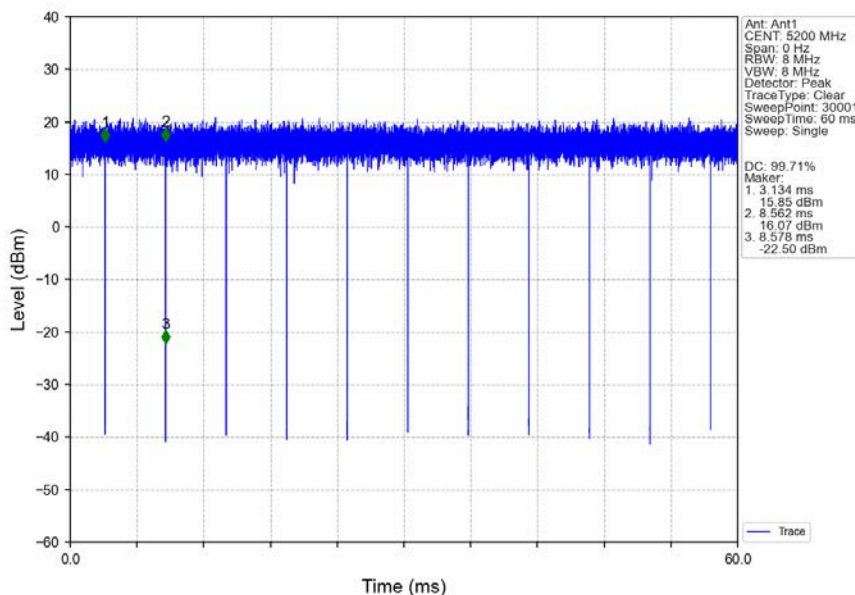
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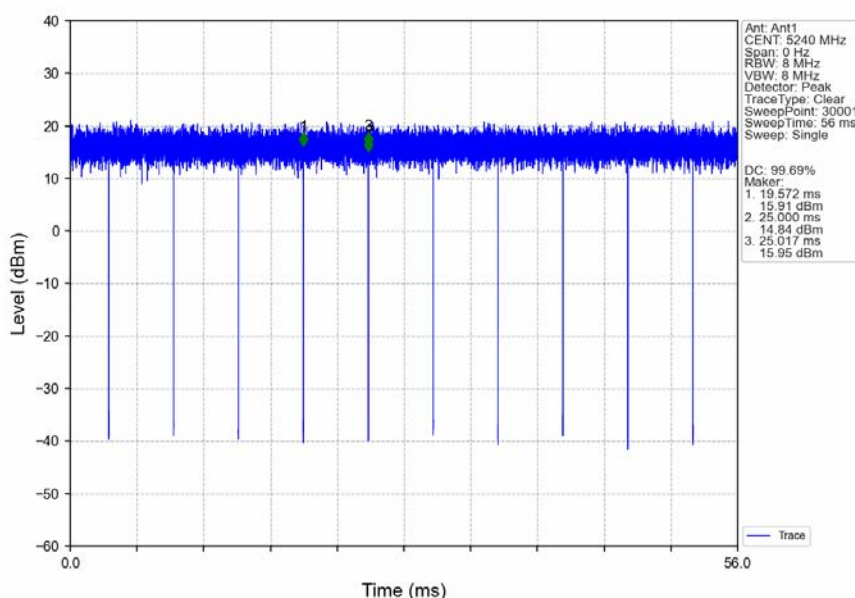
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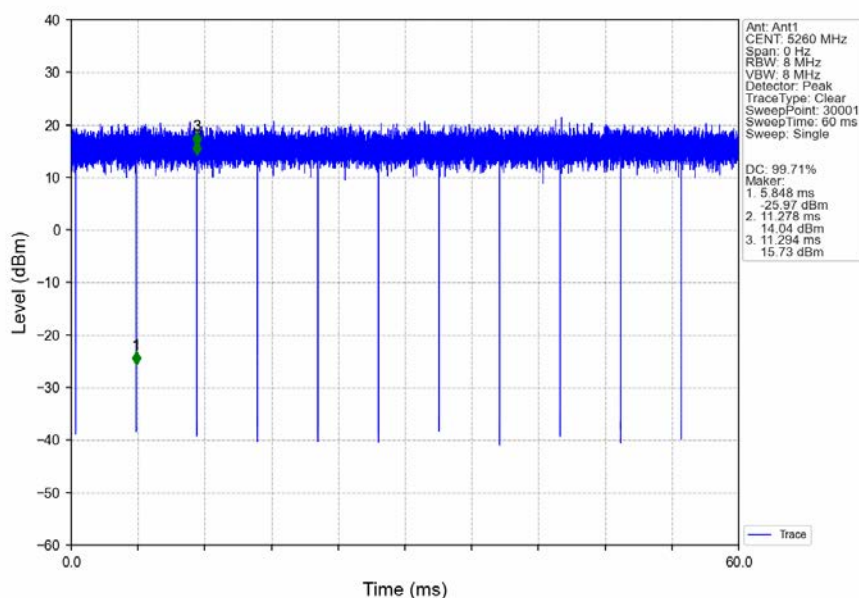
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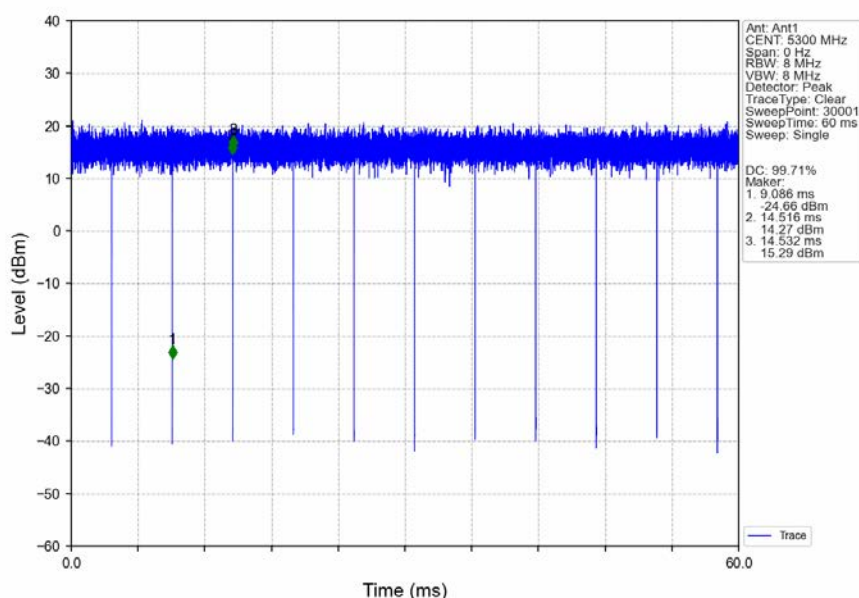
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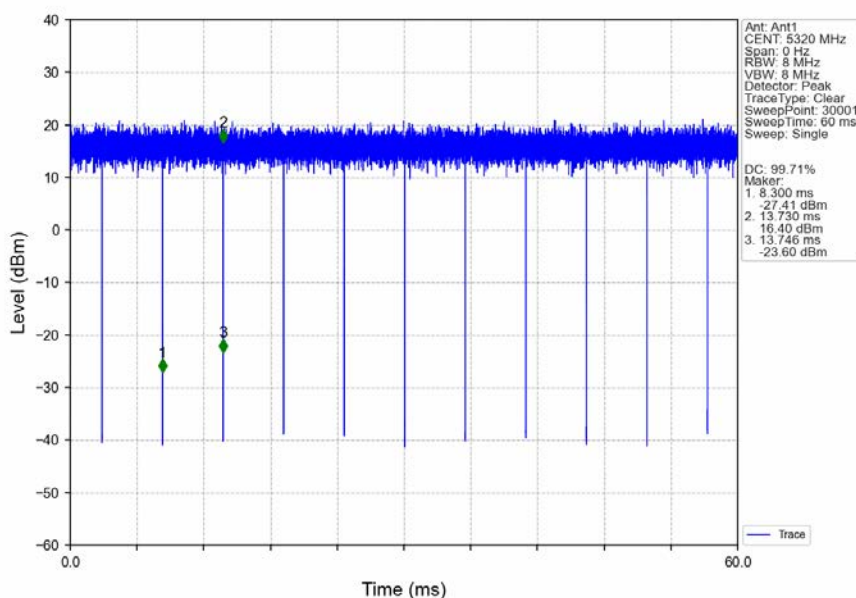
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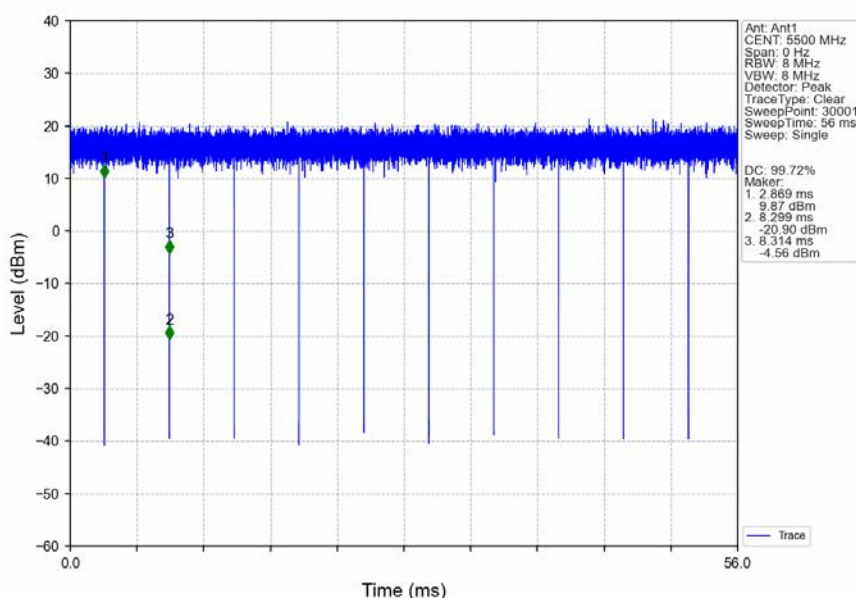
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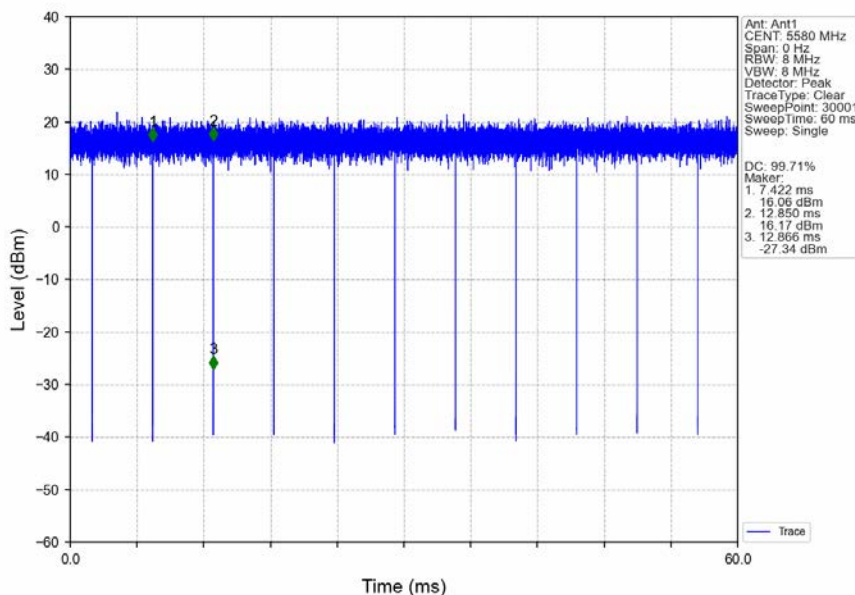
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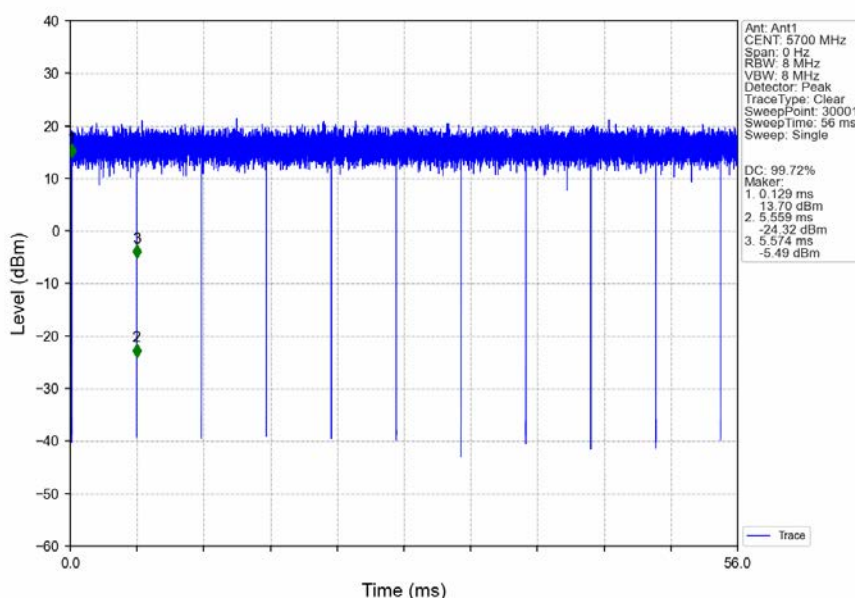
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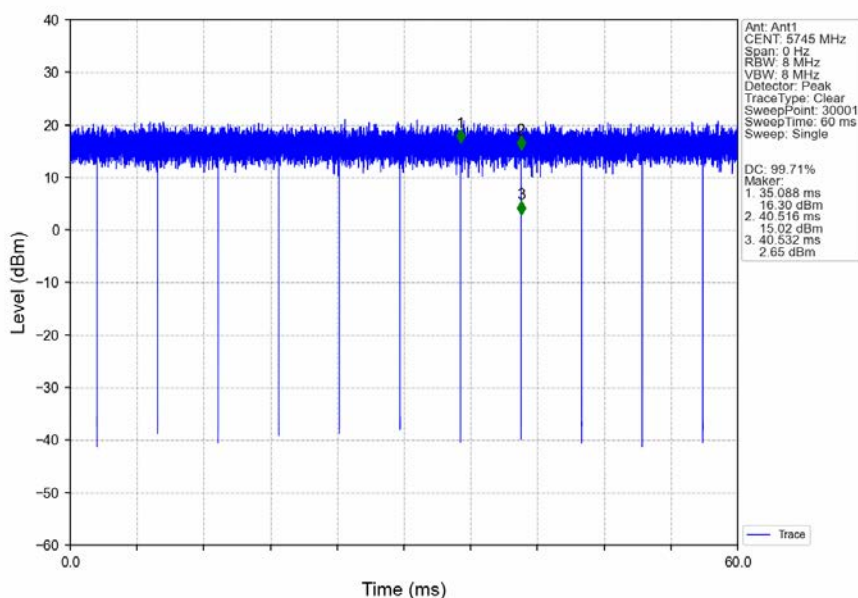
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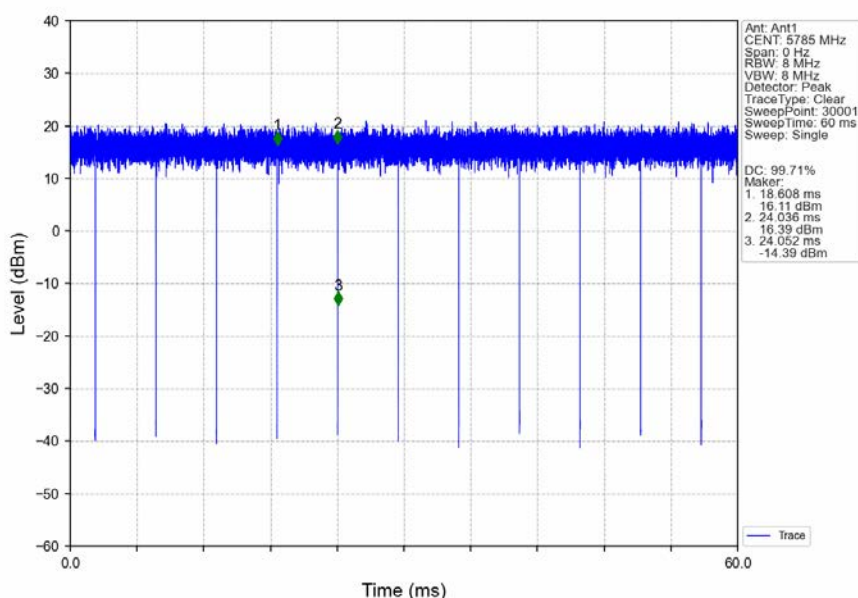
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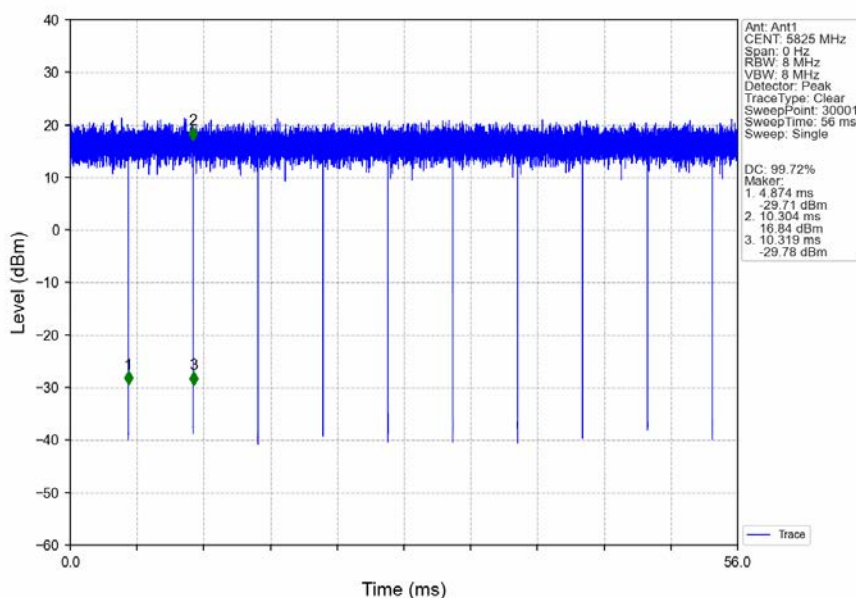
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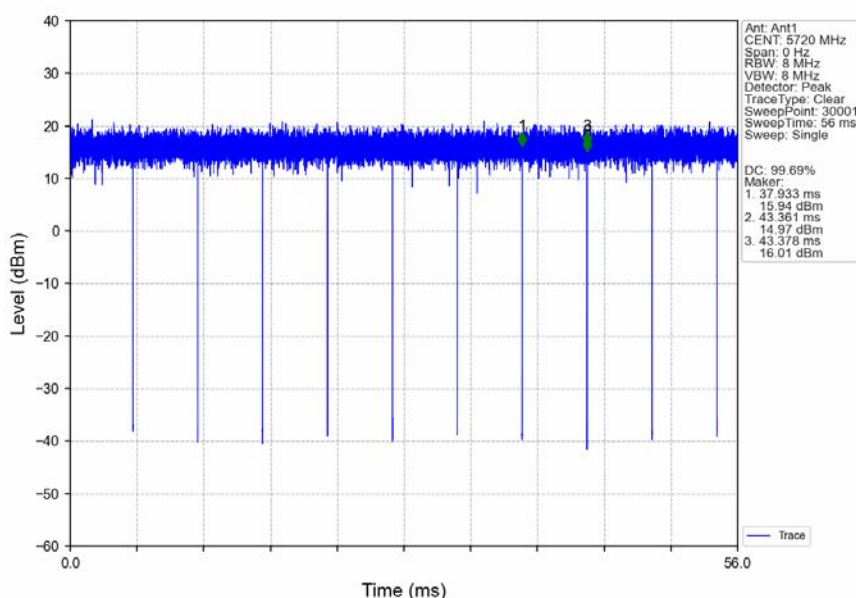
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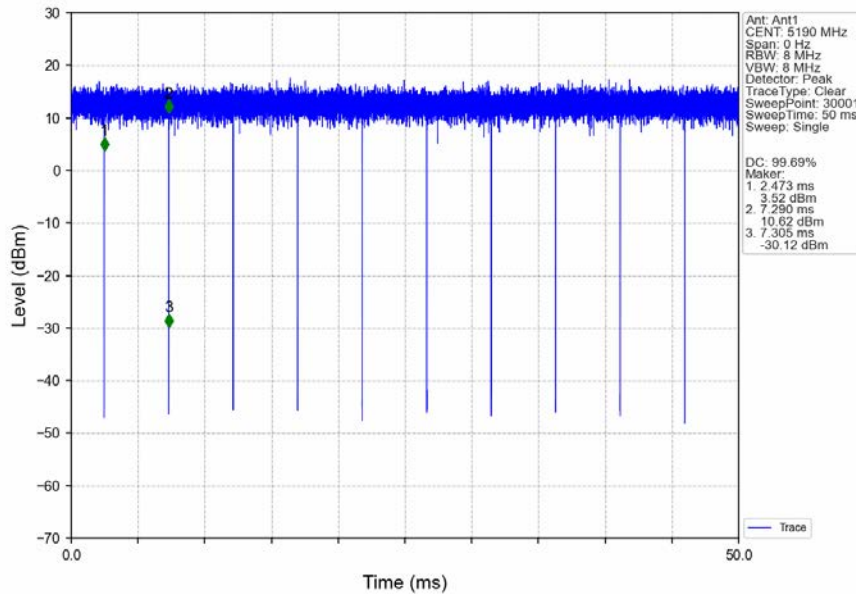
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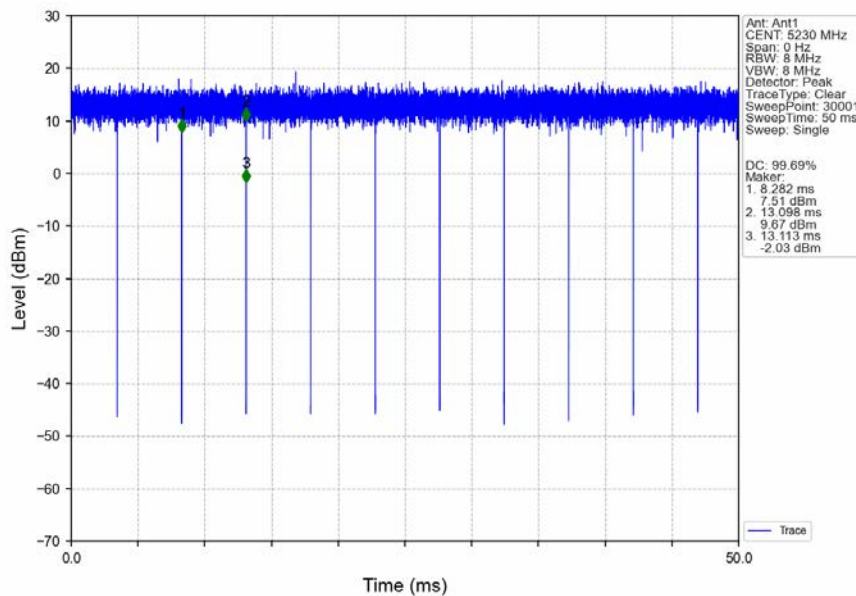
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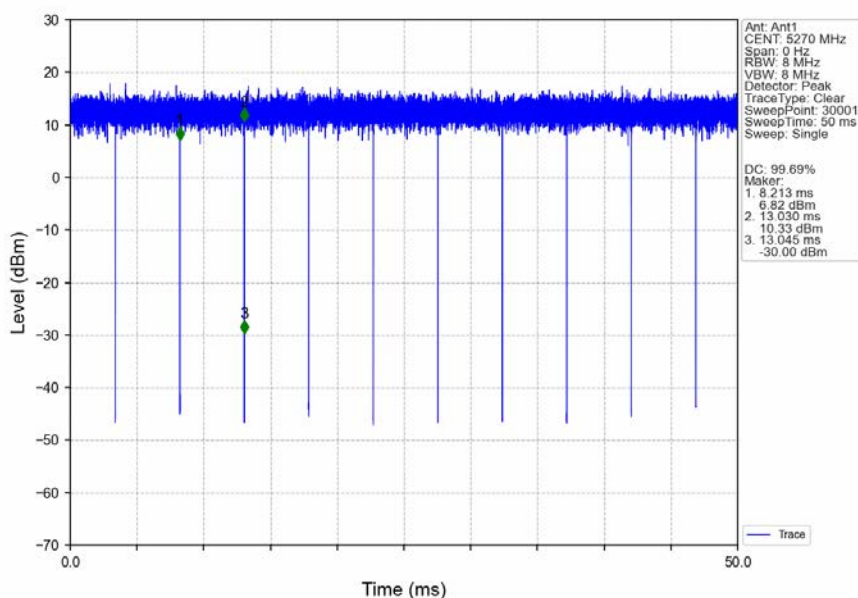
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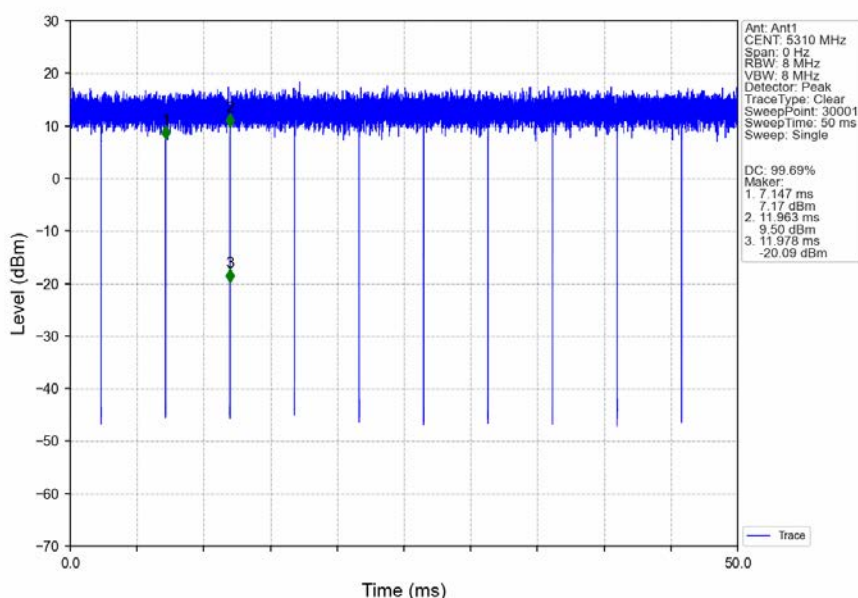
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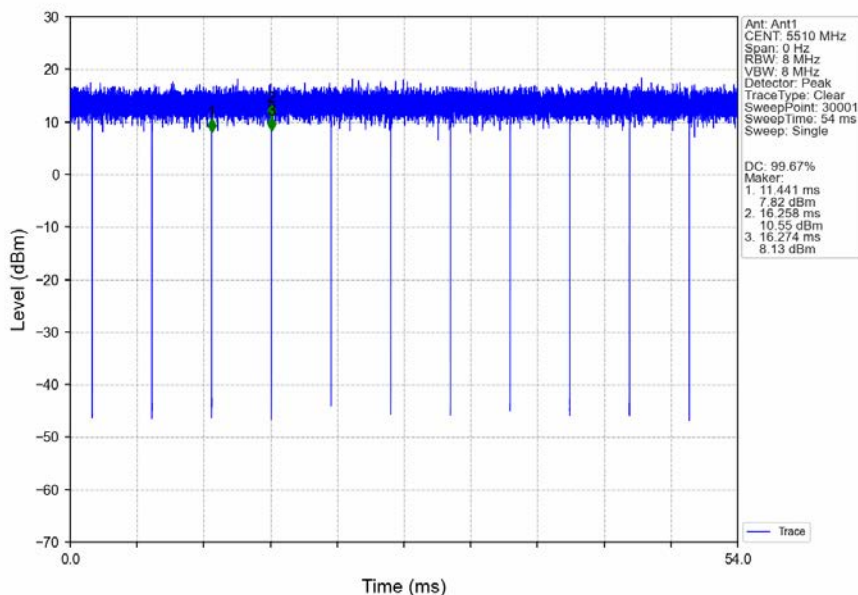
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802.11ax(HEW40)_LCH_5510MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_MCH_5550MHz_RU484_Left_Ant1_NTNV

