

7.13 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.

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 34.3 °C Humidity: 39.7 % RH Atmospheric Pressure: 1010 mbar



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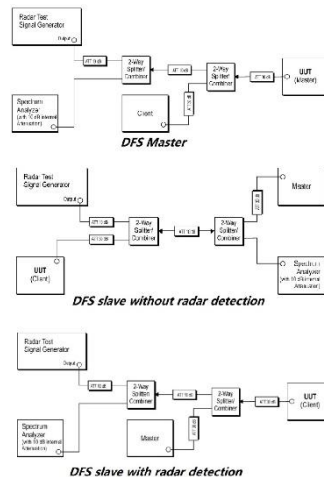
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7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode (U-NII-2A) Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Final test	03	Charge + TX mode (U-NII-2C) Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

7.13.3 Test Setup Diagram



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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



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7.14 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 58.5 % RH

Atmospheric Pressure: 1010 mbar

7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Pre test	02	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Pre test	03	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type



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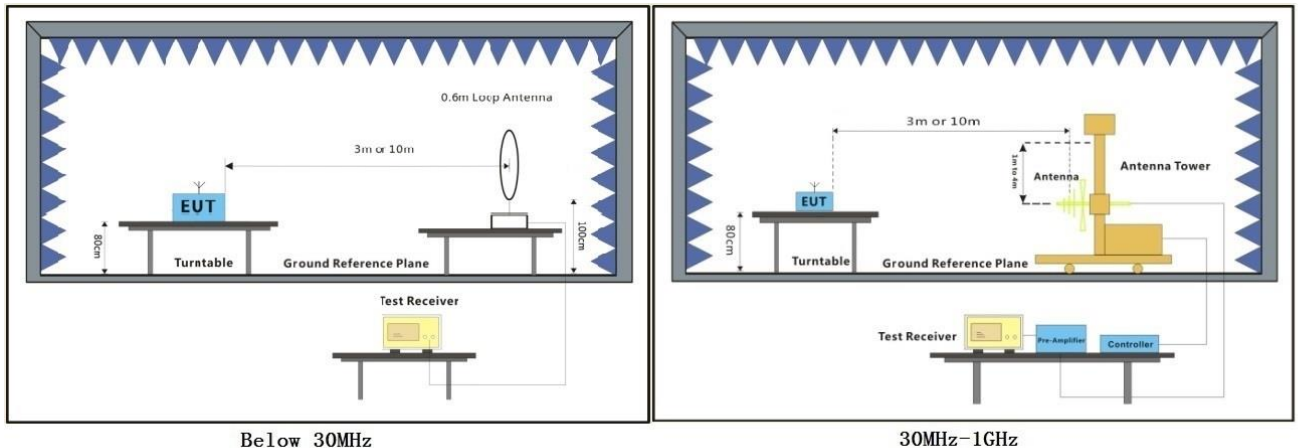
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		have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Pre test	04	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80),. Only the data of worst case is recorded in the report.

7.14.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



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7.14.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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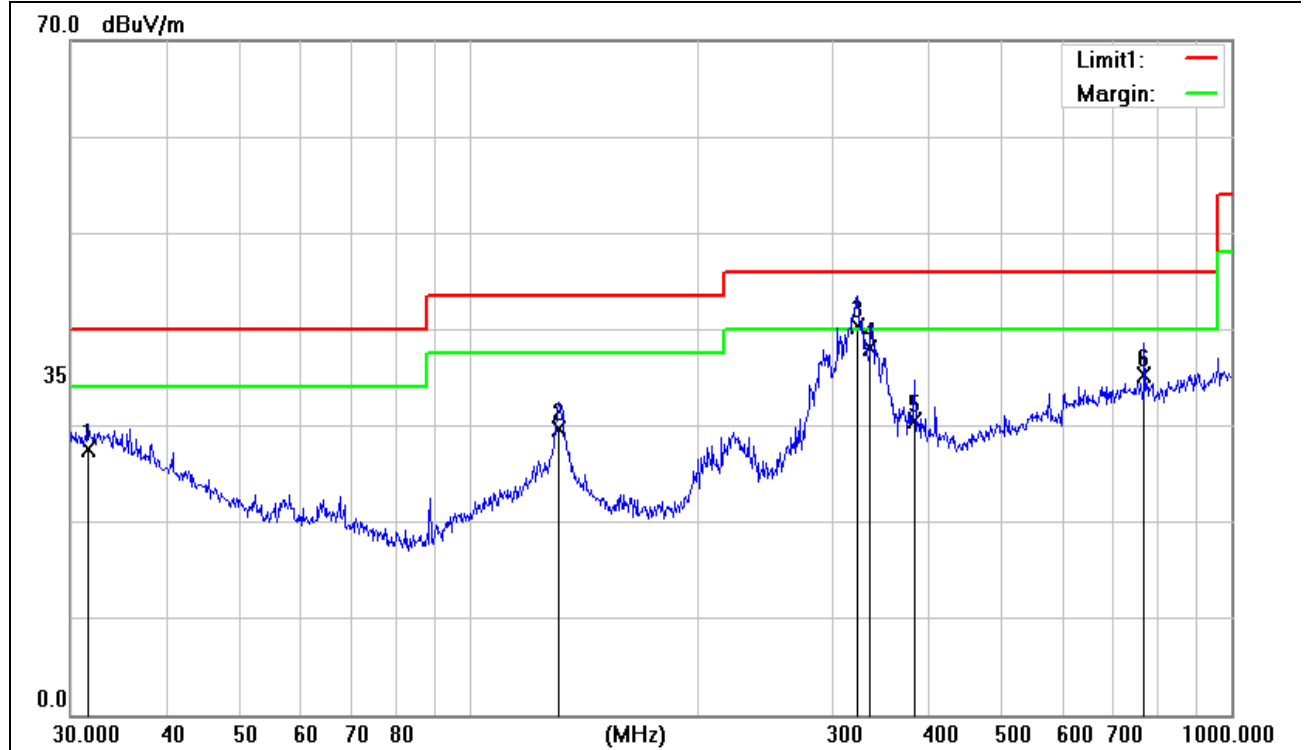
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Test Mode: 01; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	31.6202	2.50	25.14	27.64	40.00	-12.36	100	0	QP
2	131.2965	10.35	19.33	29.68	43.50	-13.82	185	360	QP
3	323.3204	19.24	21.12	40.36	46.00	-5.64	100	250	QP
4	336.0352	16.76	21.36	38.12	46.00	-7.88	100	273	QP
5	383.9318	7.96	22.60	30.56	46.00	-15.44	121	116	QP
6	768.7482	7.12	28.09	35.21	46.00	-10.79	200	98	QP

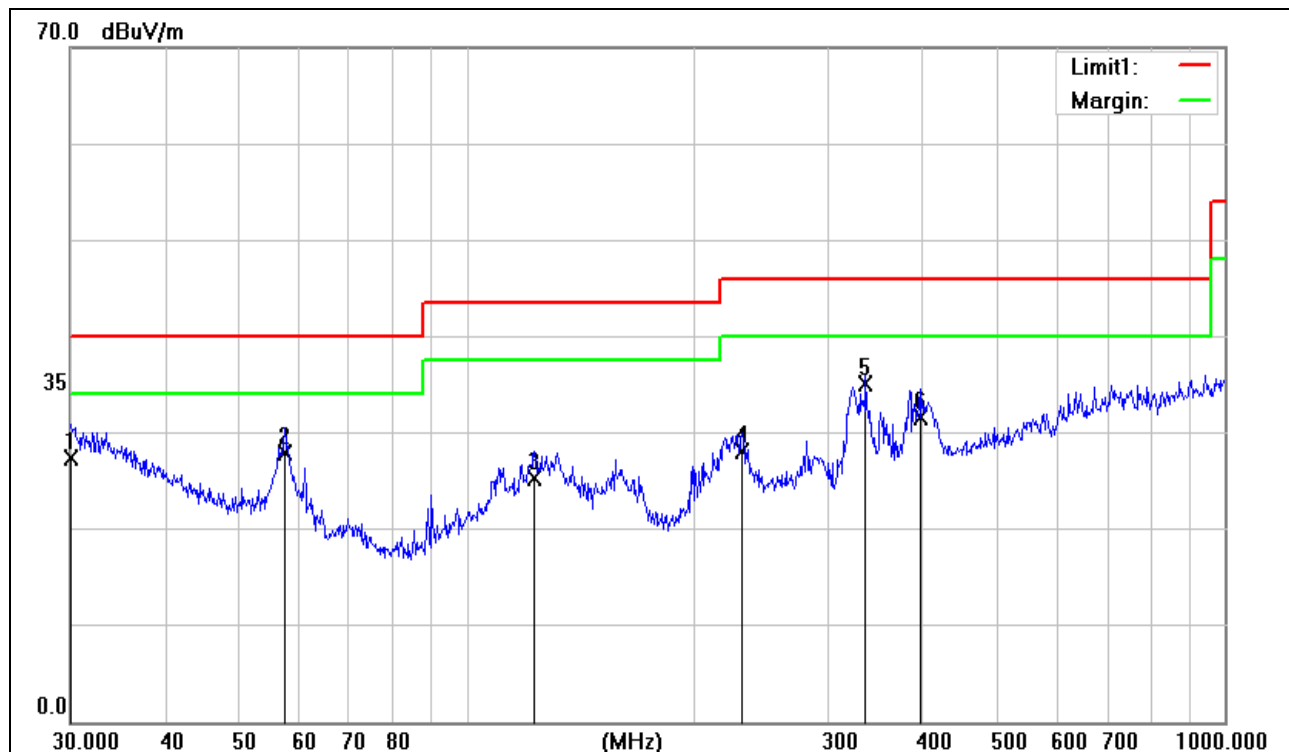


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Test Mode: 01; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.1054	2.21	25.23	27.44	40.00	-12.56	100	50	QP
2	57.5939	12.47	15.37	27.84	40.00	-12.16	100	237	QP
3	122.8340	5.96	19.41	25.37	43.50	-18.13	100	355	QP
4	230.9068	10.48	17.65	28.13	46.00	-17.87	100	6	QP
5	336.0352	13.65	21.36	35.01	46.00	-10.99	104	360	QP
6	396.2415	8.38	23.18	31.56	46.00	-14.44	100	358	QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2210001890AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2210001890AT



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10 Appendix



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Appendix for KSCR2210001890AT-5G WIFI

Channel	802.11a		802.11n(HT20)		802.11ac(VHT20)	
	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
36	14	15	14	15	15.5	16.5
40	14.5	16	14	15	15.5	16
48	14	15.5	14	14.5	14.5	15
52	14	15.5	14.5	15	14.5	15.5
60	14.5	15.5	14.5	15.5	14.5	15.5
64	15.5	16	15	16	14.5	15.5
100	14	14.5	14.5	16	14.5	15
116	14.5	15	15	16	14.5	15.5
140	15.5	15	15	15.5	16.5	17.5
149	15	15	15	16	15	16
157	15	15.5	15	16	15	16.5
165	14.5	14.5	14.5	15.5	15.5	16
Channel	802.11n(HT40)		802.11ac(VHT40)			
	Ant 1	Ant 2	Ant 1	Ant 2		
38	14	15	14.5	15		
46	14	14.5	14.5	15		
54	13.5	14.5	14.5	15		
62	14	14.5	16	17		
102	13.5	14	14.5	15.5		
110	14	15	15.5	15.5		
134	13	13.5	13.5	14		
151	15	15	15	16		
159	15	15.5	16	17		
Channel	802.11ac(VHT80)					
	Ant 1	Ant 2				
42	15	15.5				
58	15	16				
106	15	16				
122	14.5	15				
155	15.5	16				



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189002

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1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.392	1.455	95.67	0.19	0.07
		5200	1.392	1.454	95.74	0.19	0.07
		5240	1.393	1.455	95.74	0.19	0.03
		5260	1.392	1.453	95.80	0.19	0.04
		5300	1.394	1.455	95.81	0.19	0.03
		5320	1.392	1.454	95.74	0.19	0.07
		5500	1.394	1.455	95.81	0.19	0.06
		5580	1.394	1.455	95.81	0.19	0.03
		5700	1.393	1.455	95.74	0.19	0.07
		5745	1.393	1.454	95.80	0.19	0.03
		5785	1.393	1.454	95.80	0.19	0.03
802.11n (HT20)	MIMO	5180	1.301	1.363	95.45	0.20	0.03
		5200	1.301	1.363	95.45	0.20	0.07
		5240	1.301	1.362	95.52	0.20	0.03
		5260	1.301	1.363	95.45	0.20	0.03
		5300	1.301	1.363	95.45	0.20	0.07
		5320	1.302	1.363	95.52	0.20	0.07
		5500	1.302	1.363	95.52	0.20	0.03
		5580	1.302	1.363	95.52	0.20	0.07
		5700	1.302	1.363	95.52	0.20	0.07
		5745	1.301	1.362	95.52	0.20	0.07
		5785	1.302	1.363	95.52	0.20	0.03
802.11n (HT40)	MIMO	5190	0.648	0.710	91.27	0.40	0.03
		5230	0.648	0.710	91.27	0.40	0.03
		5270	0.649	0.710	91.41	0.39	0.03
		5310	0.649	0.710	91.41	0.39	0.03
		5510	0.649	0.710	91.41	0.39	0.03
		5550	0.649	0.710	91.41	0.39	0.03
		5670	0.649	0.710	91.41	0.39	0.03
		5755	0.648	0.710	91.27	0.40	0.07
		5795	0.648	0.710	91.27	0.40	0.06
802.11ac (VHT20)	MIMO	5180	1.313	1.375	95.49	0.20	0.07
		5200	1.312	1.374	95.49	0.20	0.03



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Report No.: KSCR221000189002

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		5240	1.313	1.374	95.56	0.20	0.03
		5260	1.312	1.374	95.49	0.20	0.03
		5300	1.313	1.374	95.56	0.20	0.03
		5320	1.312	1.374	95.49	0.20	0.07
		5500	1.313	1.375	95.49	0.20	0.07
		5580	1.313	1.374	95.56	0.20	0.00
		5700	1.312	1.374	95.49	0.20	0.00
		5745	1.312	1.374	95.49	0.20	0.07
		5785	1.312	1.374	95.49	0.20	0.07
		5825	1.313	1.375	95.49	0.20	0.07
802.11ac (VHT40)	MIMO	5190	0.653	0.714	91.46	0.39	0.10
		5230	0.652	0.714	91.32	0.39	0.10
		5270	0.653	0.714	91.46	0.39	0.07
		5310	0.652	0.714	91.32	0.39	0.10
		5510	0.652	0.714	91.32	0.39	0.06
		5550	0.653	0.714	91.46	0.39	0.10
		5670	0.652	0.713	91.44	0.39	0.04
		5755	0.653	0.715	91.33	0.39	0.10
		5795	0.653	0.714	91.46	0.39	0.10
802.11ac (VHT80)	MIMO	5210	0.325	0.386	84.20	0.75	0.10
		5290	0.326	0.387	84.24	0.74	0.08
		5530	0.325	0.386	84.20	0.75	0.09
		5610	0.325	0.386	84.20	0.75	0.12
		5775	0.326	0.387	84.24	0.74	0.15

1.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV

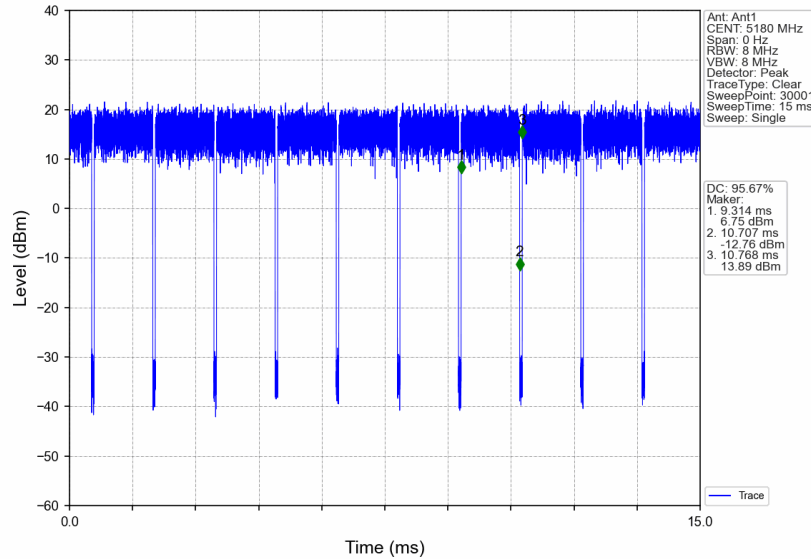


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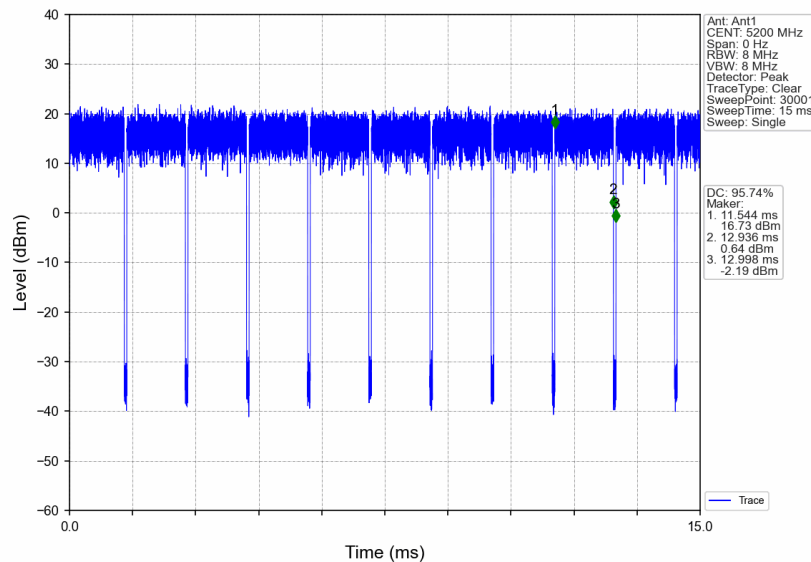
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802.11a MCH 5200MHz Ant1 NTN



802.11a HCH 5240MHz Ant1 NTN



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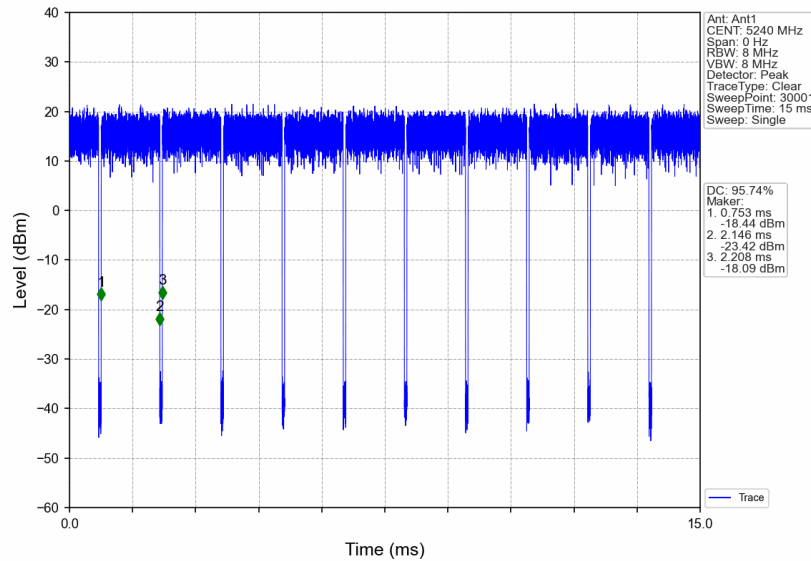
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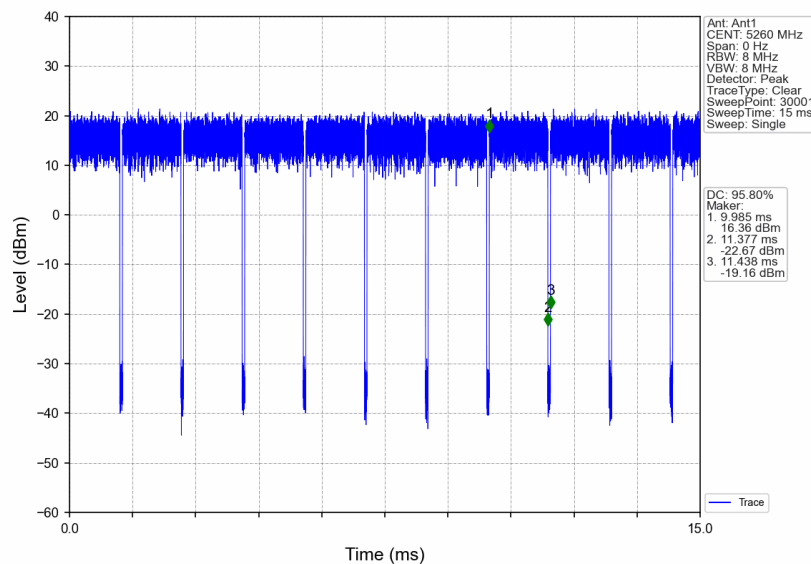
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802.11a LCH 5260MHz Ant1 NTN



802.11a MCH 5300MHz Ant1 NTN

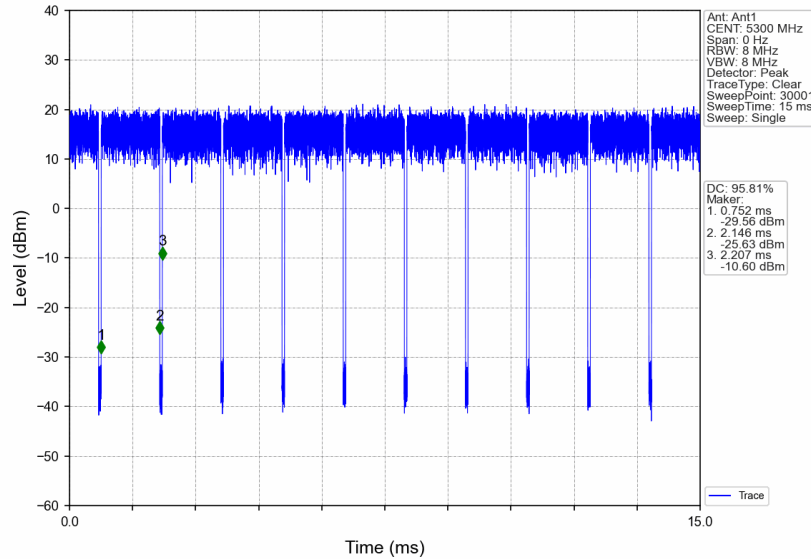


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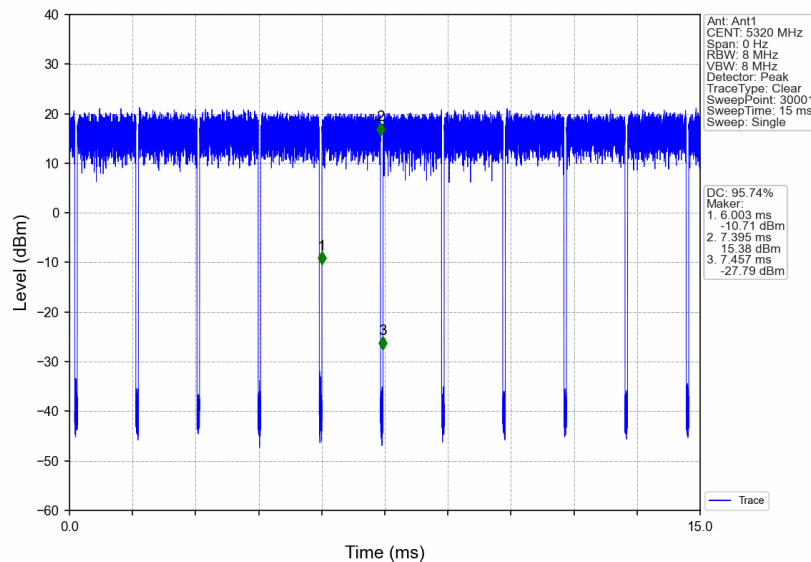
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802.11a HCH 5320MHz Ant1 NTN



802.11a LCH 5500MHz Ant1 NTN



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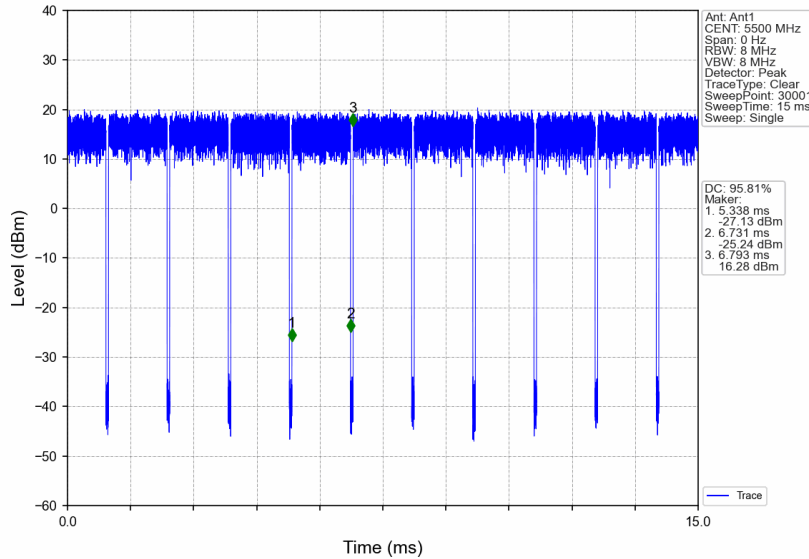
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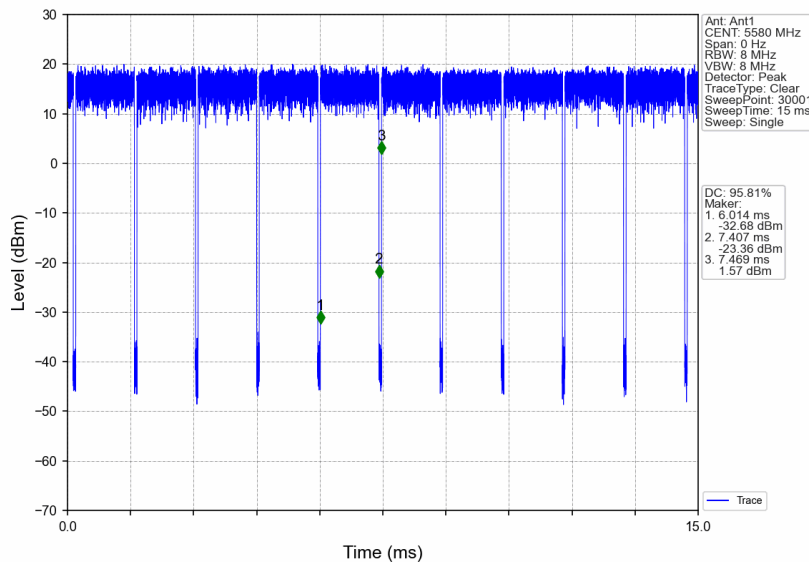
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802.11a MCH 5580MHz Ant1 NTN



802.11a HCH 5700MHz Ant1 NTN



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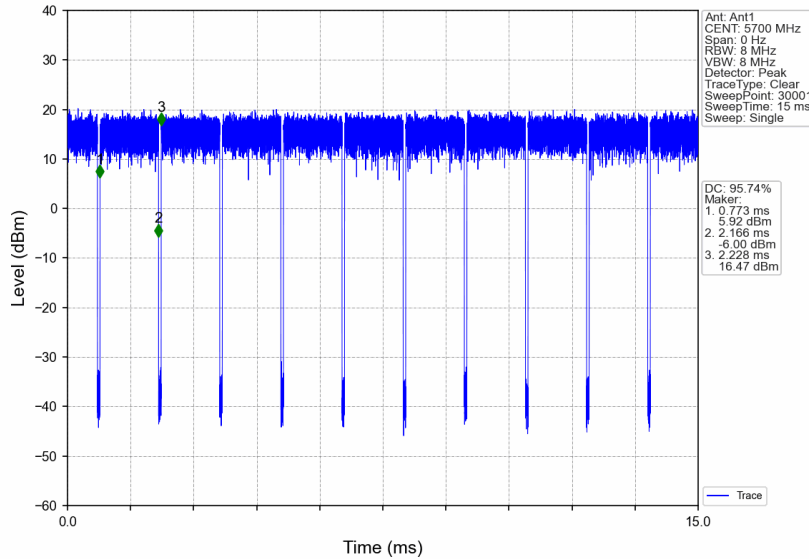
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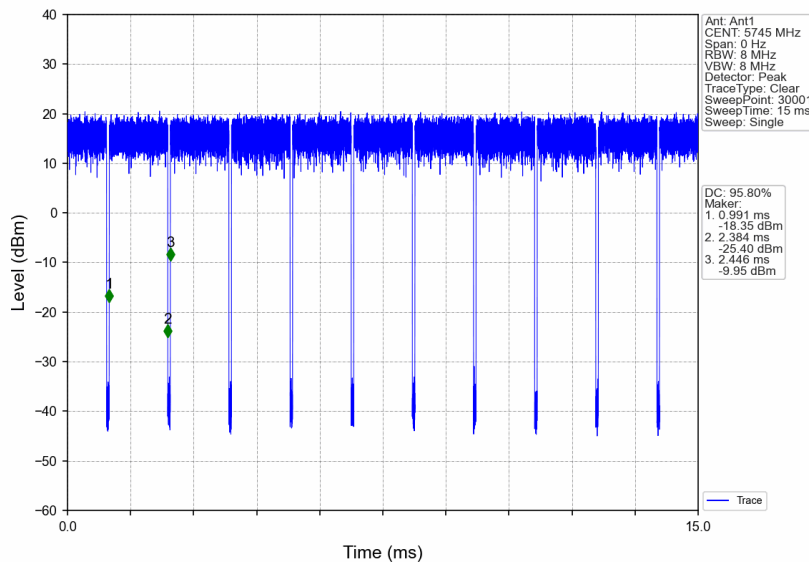
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802.11a LCH 5745MHz Ant1 NTN



802.11a MCH 5785MHz Ant1 NTN



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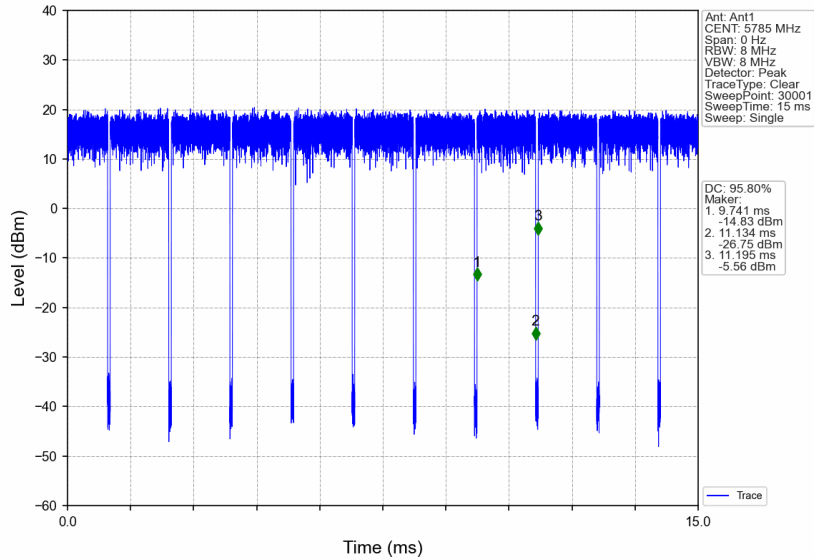
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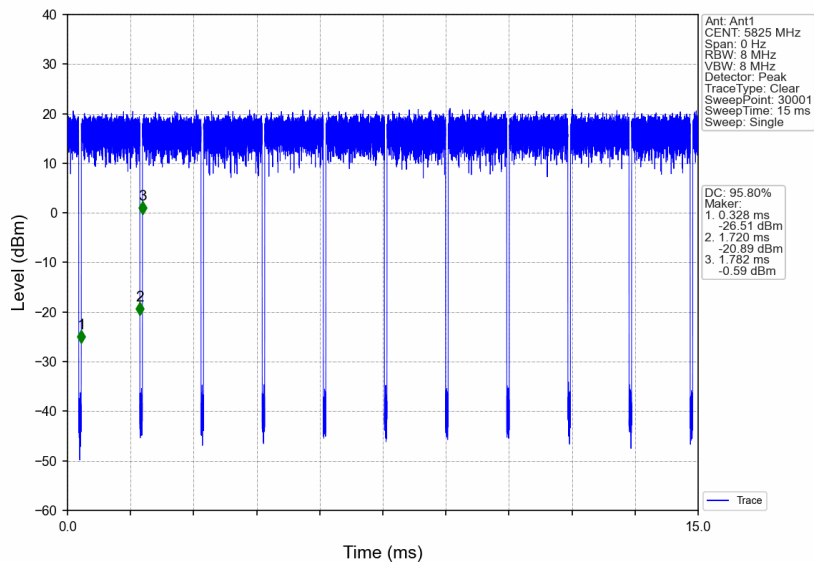
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802.11a HCH 5825MHz Ant1 NTN



802.11n(HT20) LCH 5180MHz Ant1 NTN



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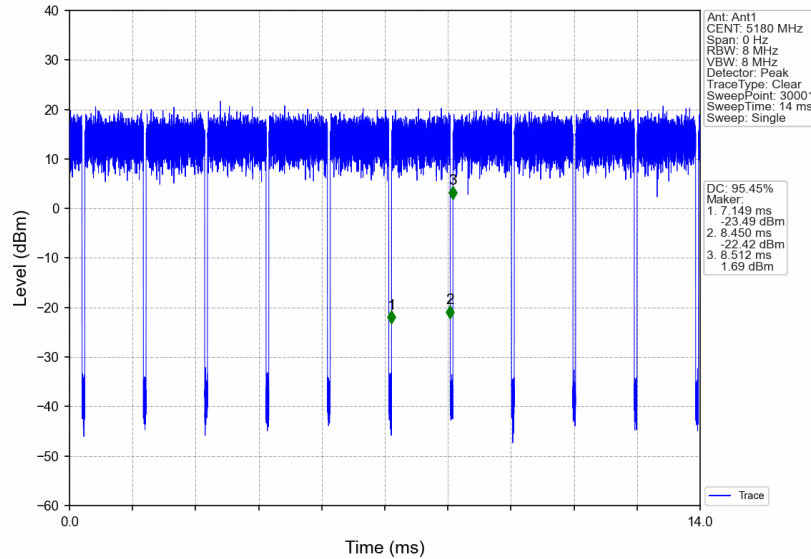
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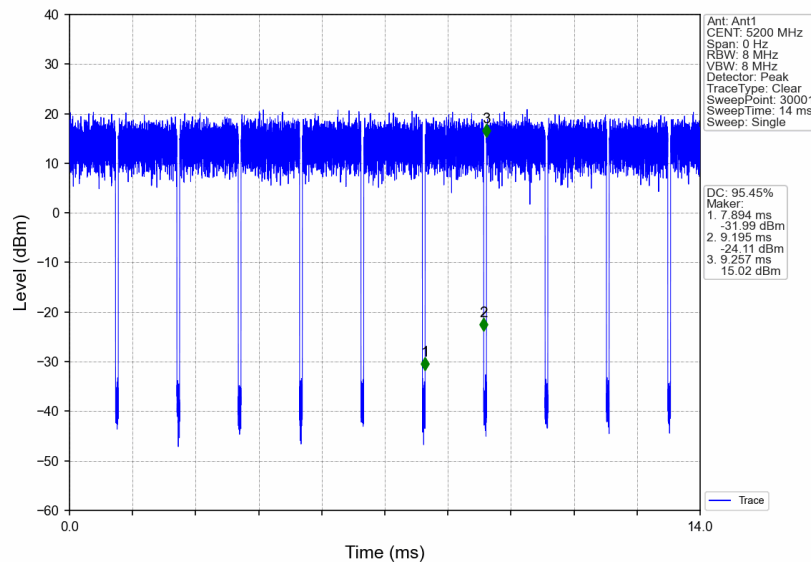
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802.11n(HT20) MCH 5200MHz Ant1 NTNv



802.11n(HT20) HCH 5240MHz Ant1 NTNv



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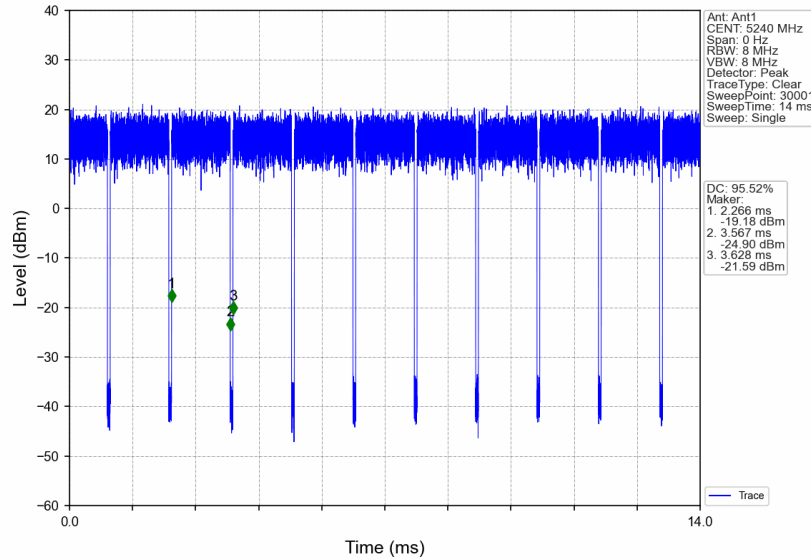
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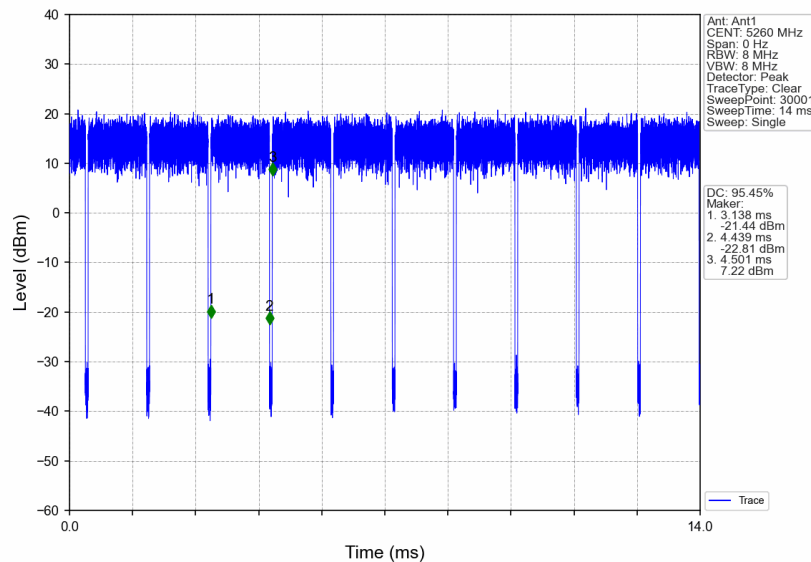
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802.11n(HT20) LCH 5260MHz Ant1 NTNv



802.11n(HT20) MCH 5300MHz Ant1 NTNv



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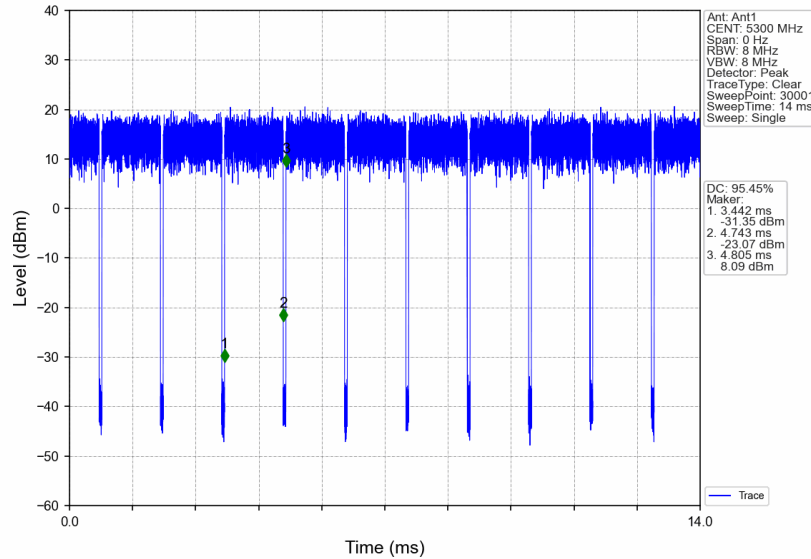
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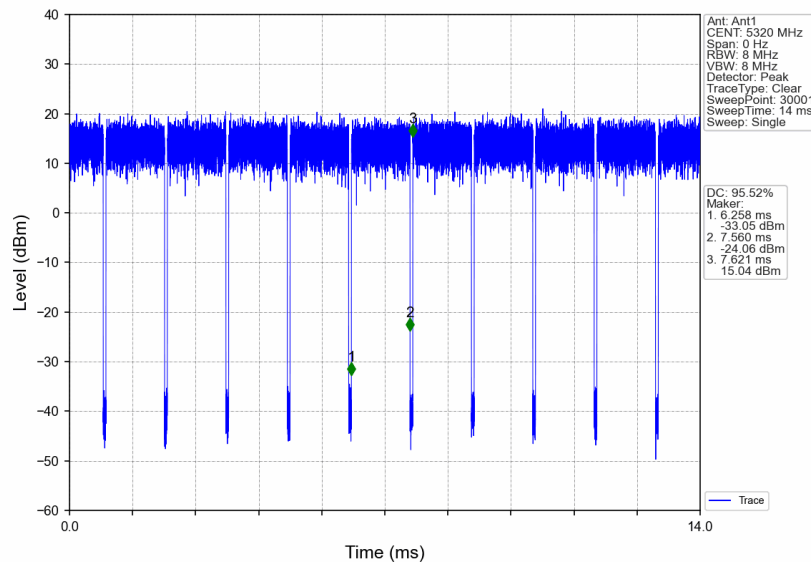
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802.11n(HT20) HCH 5320MHz Ant1 NTN



802.11n(HT20) LCH 5500MHz Ant1 NTN



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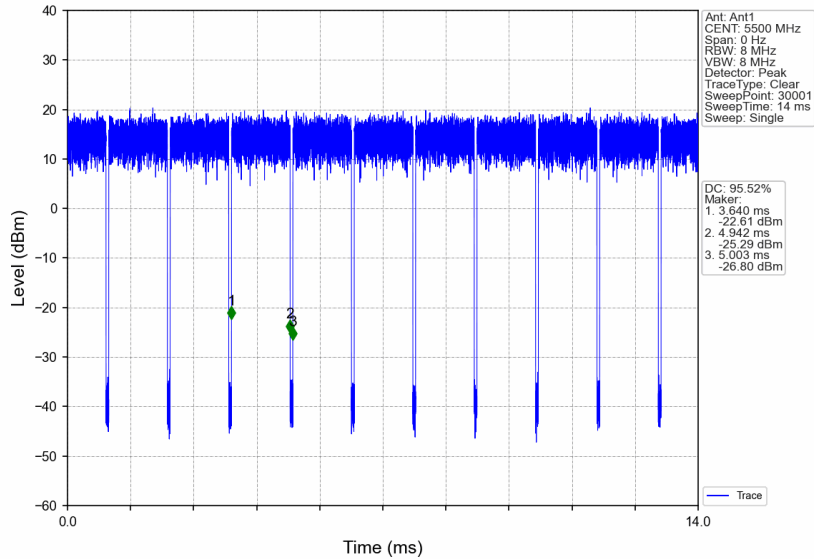
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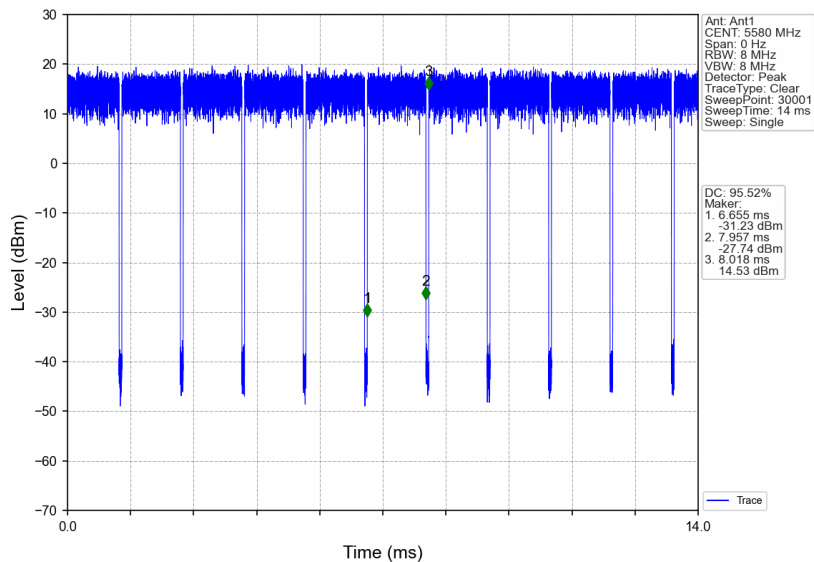
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802.11n(HT20) MCH 5580MHz Ant1 NTNv



802.11n(HT20) HCH 5700MHz Ant1 NTNv



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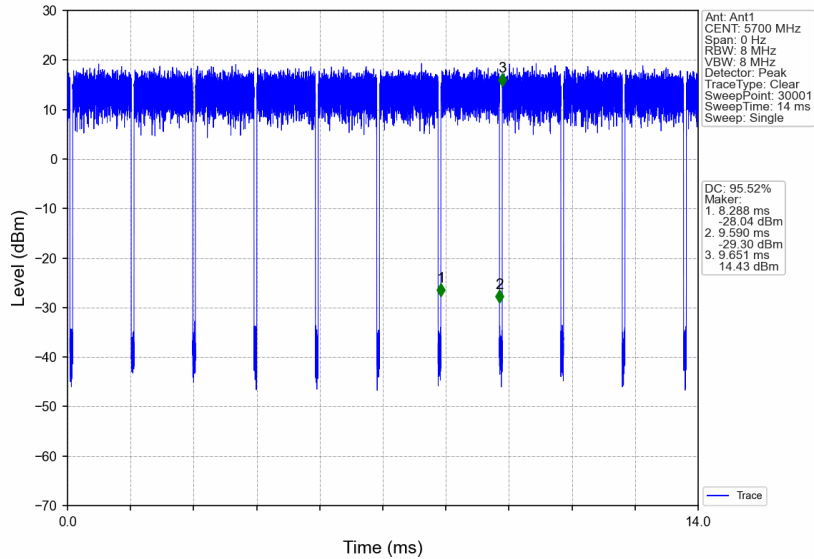
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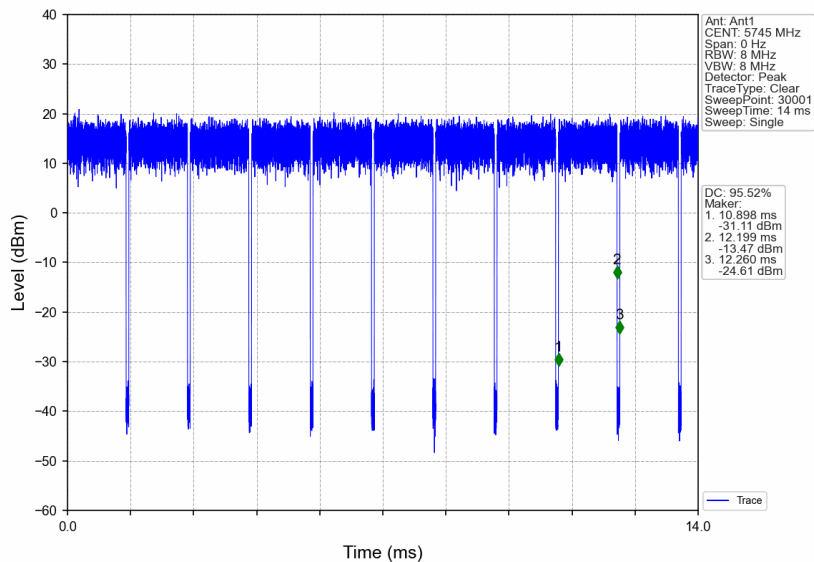
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802.11n(HT20) LCH 5745MHz Ant1 NTNv



802.11n(HT20) MCH 5785MHz Ant1 NTNv



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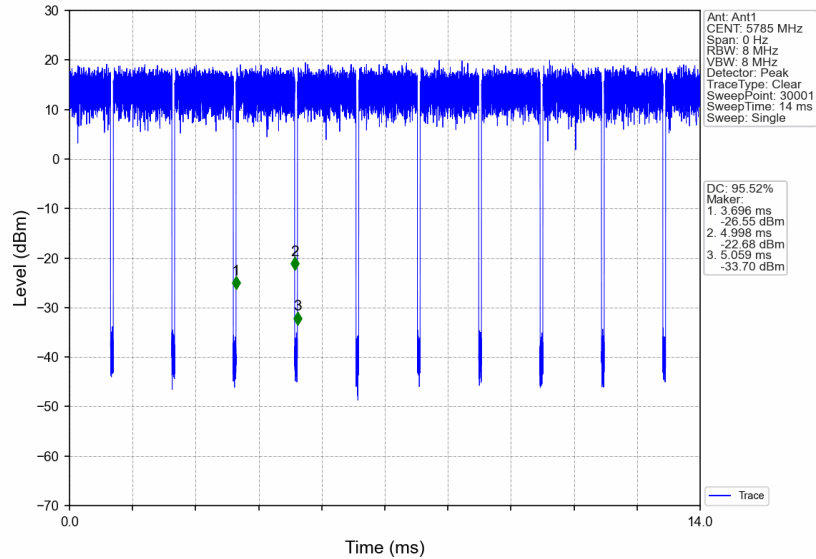
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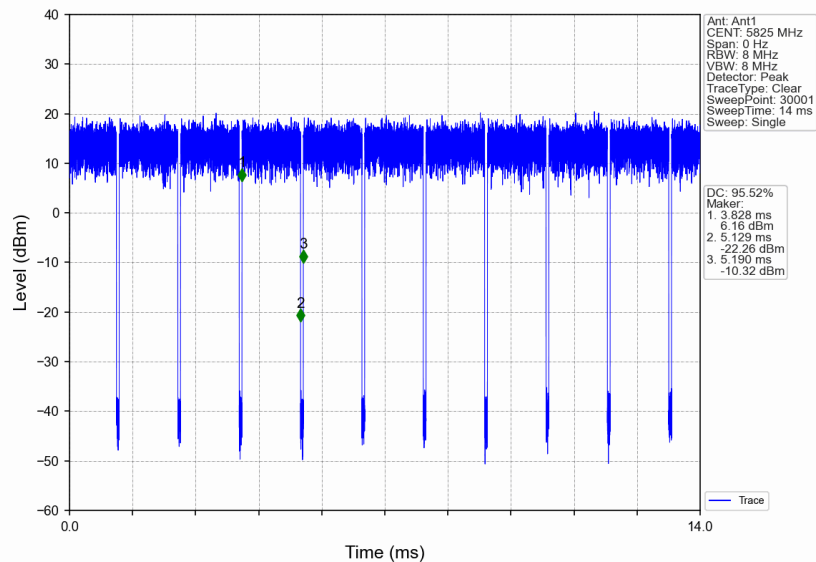
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802.11n(HT20) HCH 5825MHz Ant1 NTN



802.11n(HT40) LCH 5190MHz Ant1 NTN



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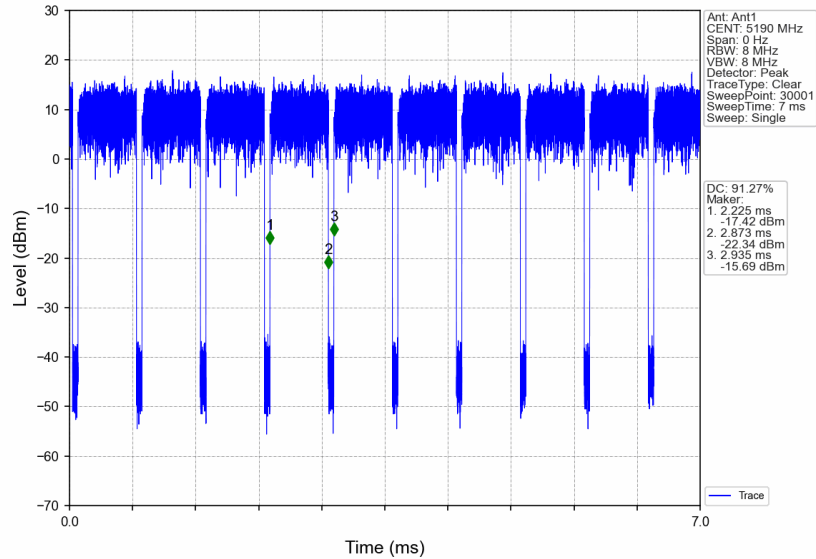
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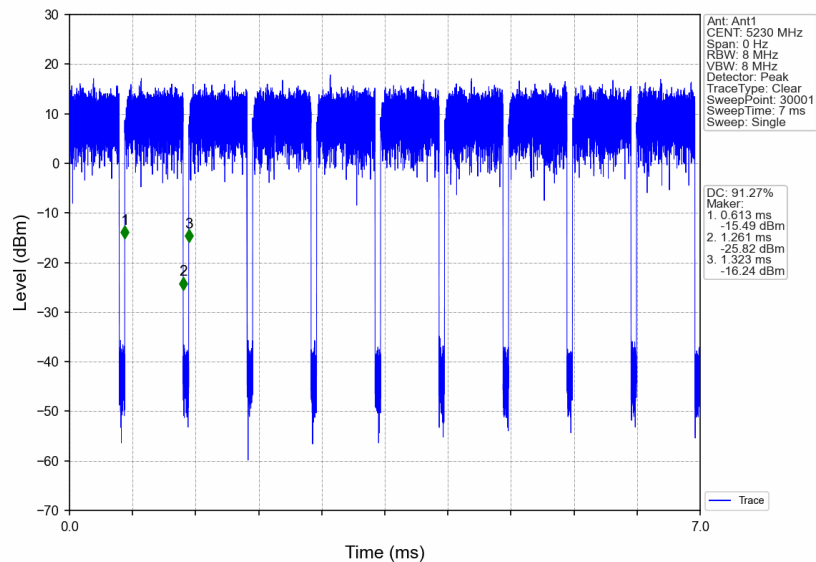
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802.11n(HT40) HCH 5230MHz Ant1 NTNv



802.11n(HT40) LCH 5270MHz Ant1 NTNv



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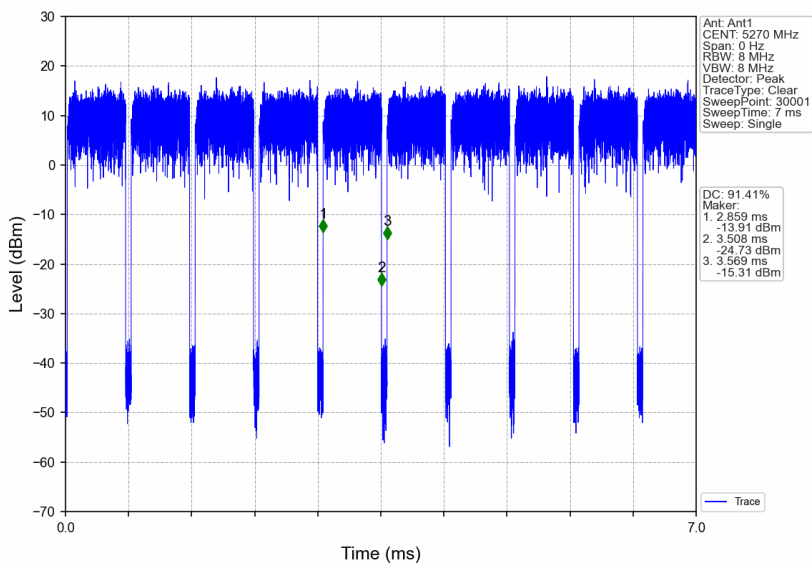
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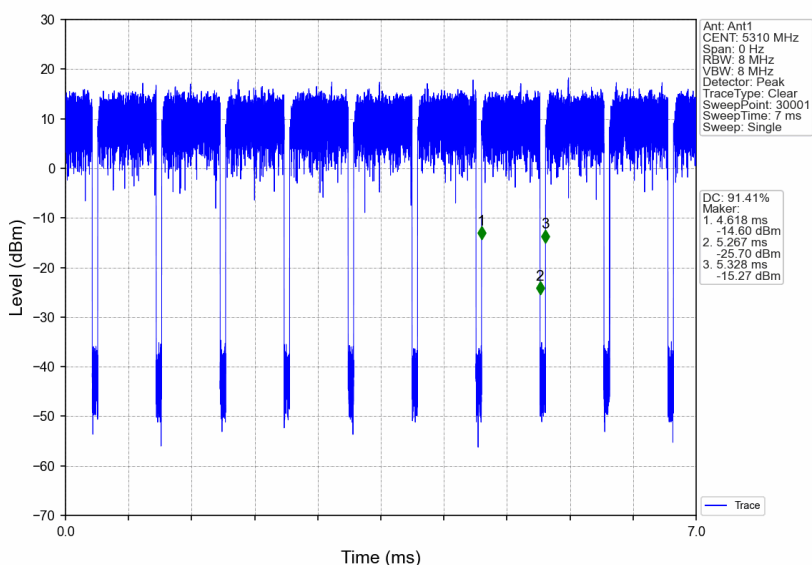
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802.11n(HT40) HCH 5310MHz Ant1 NTN



802.11n(HT40) LCH 5510MHz Ant1 NTN

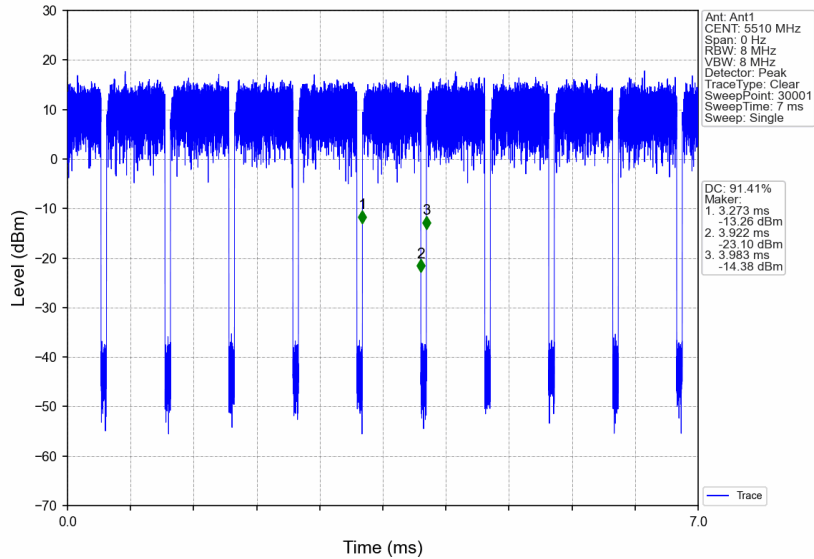


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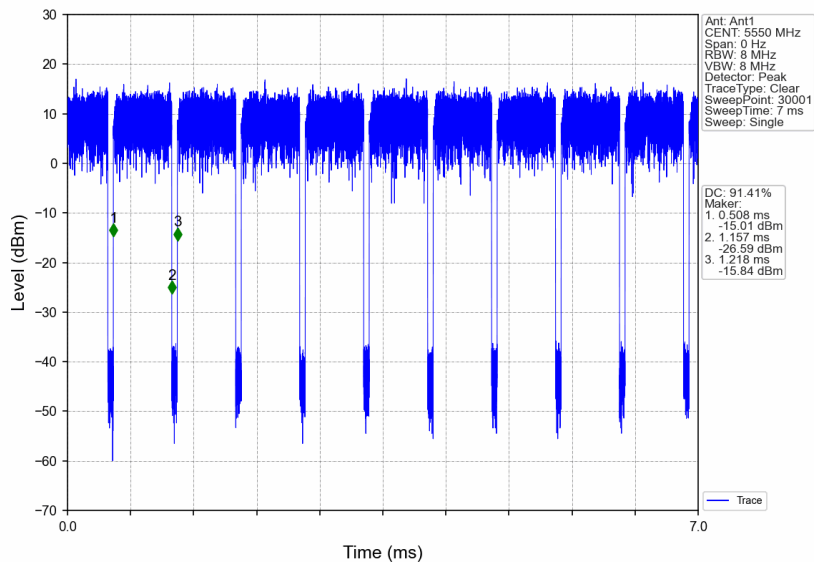
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802.11n(HT40) MCH 5550MHz Ant1 NTNv



802.11n(HT40) HCH 5670MHz Ant1 NTNv



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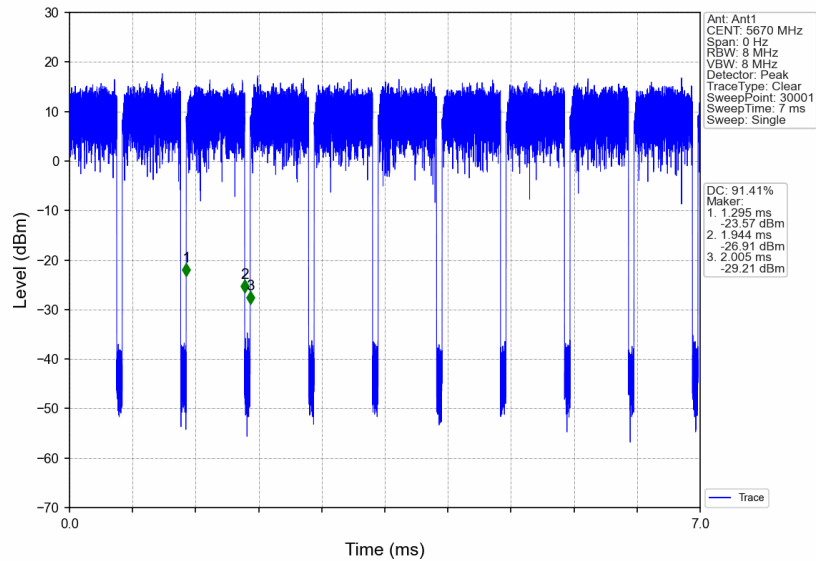
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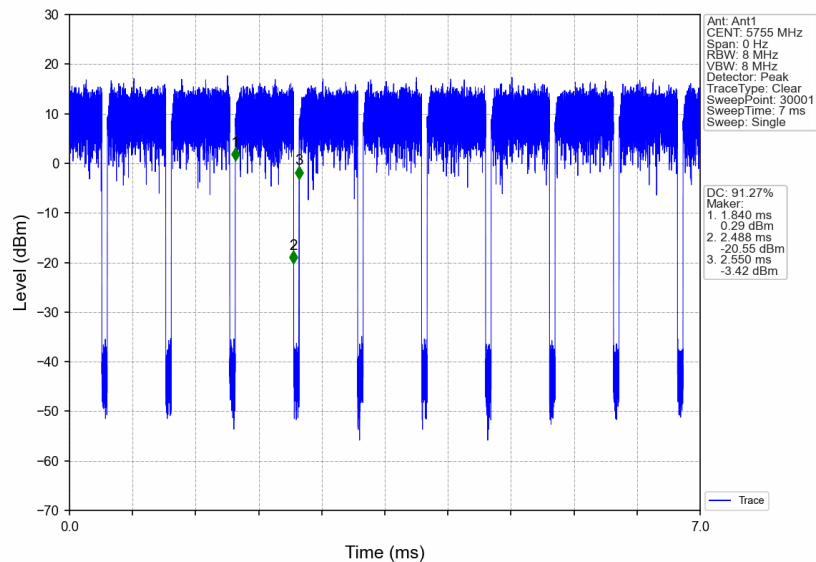
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802.11n(HT40) LCH 5755MHz Ant1 NTNv



802.11n(HT40) HCH 5795MHz Ant1 NTNv



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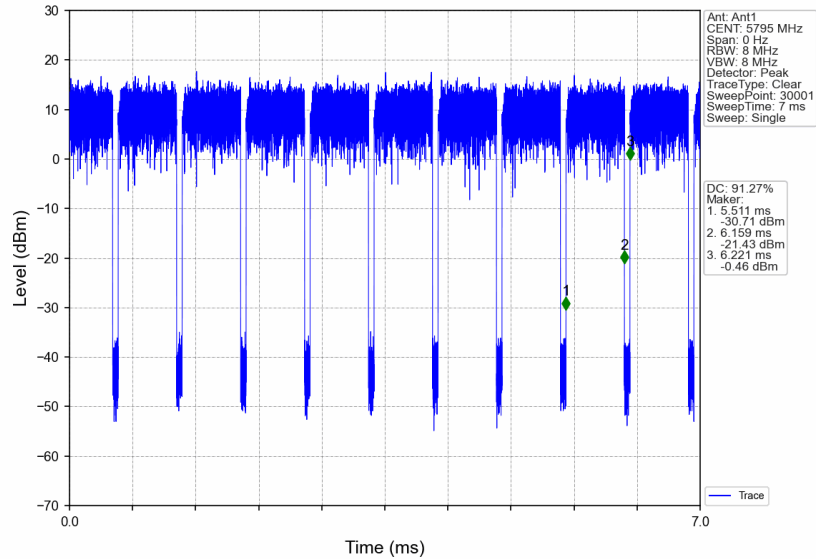
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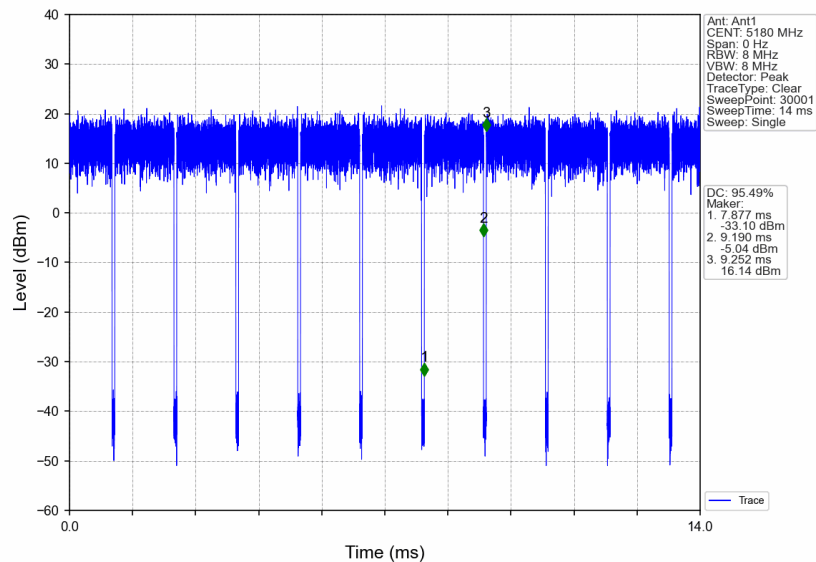
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802.11ac(VHT20) LCH 5180MHz Ant1 NTNv



802.11ac(VHT20) MCH 5200MHz Ant1 NTNv



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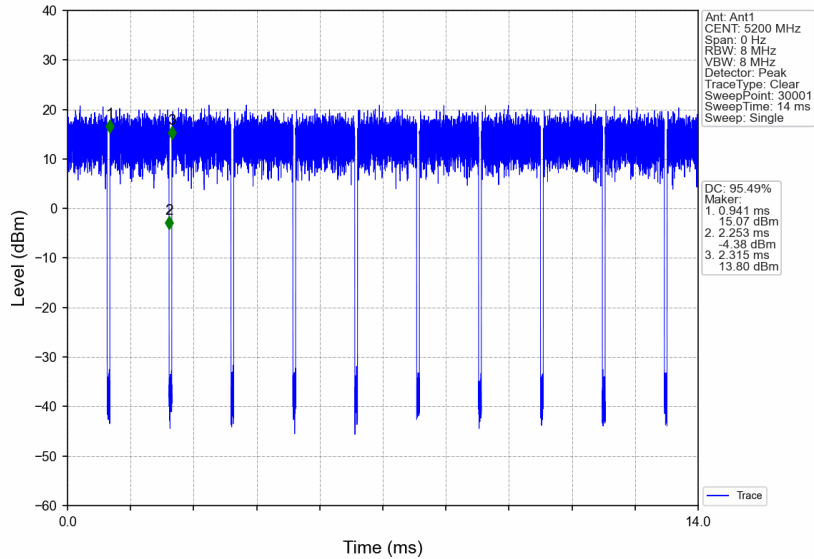
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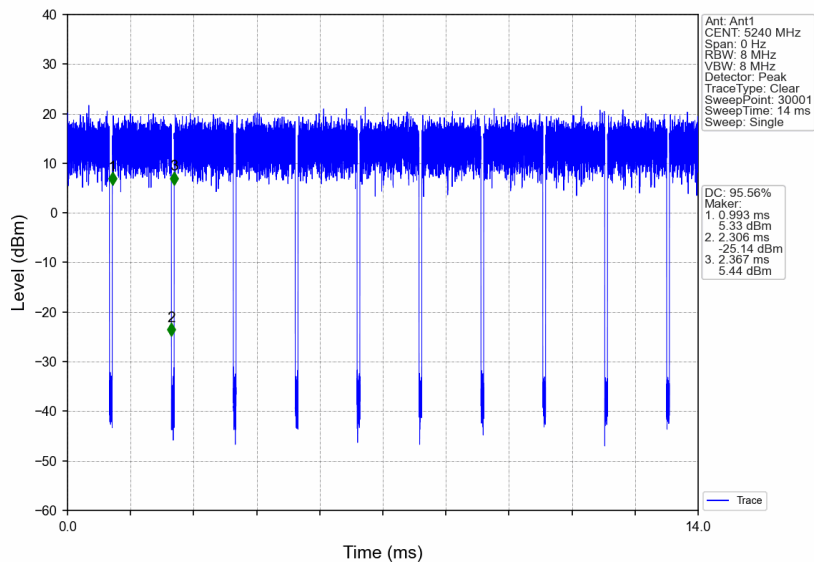
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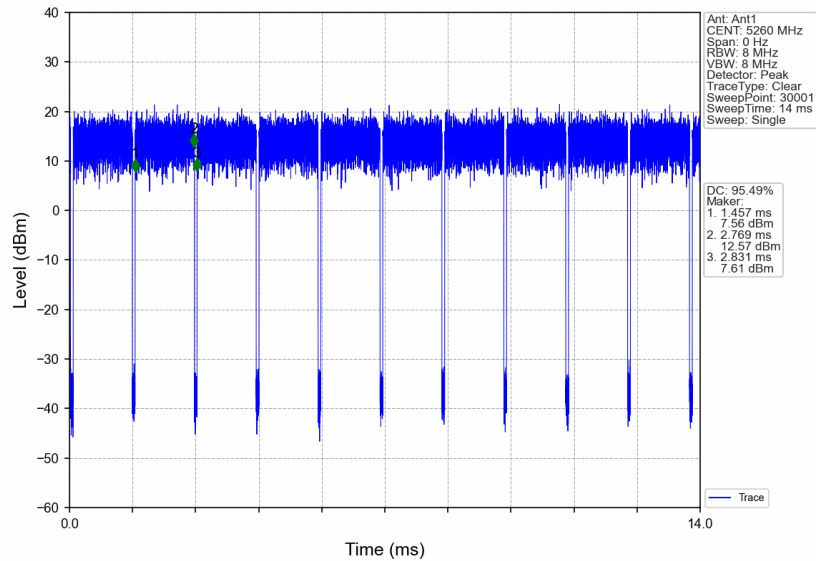
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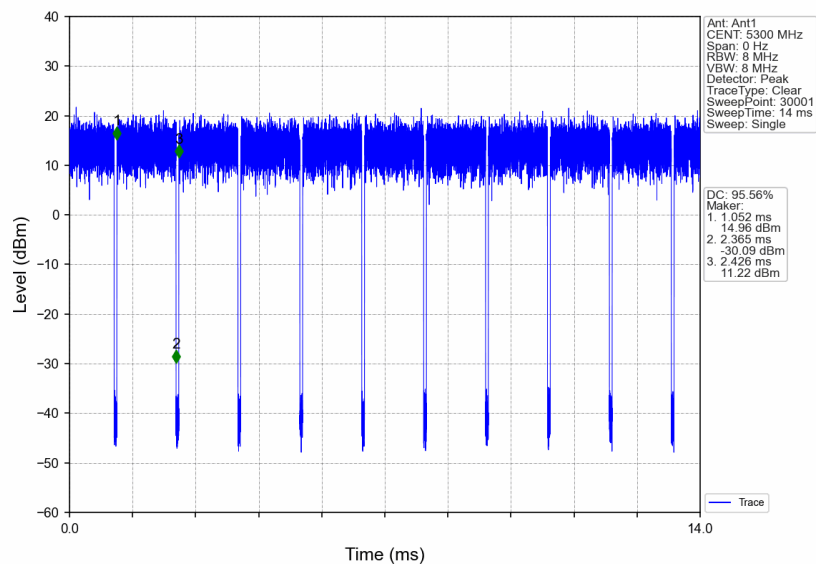
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802.11ac(VHT20) MCH 5300MHz Ant1 NTNv



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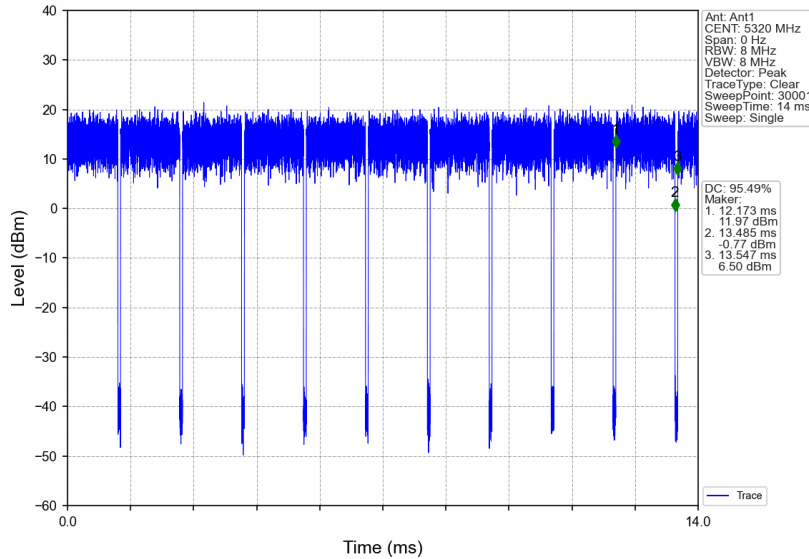
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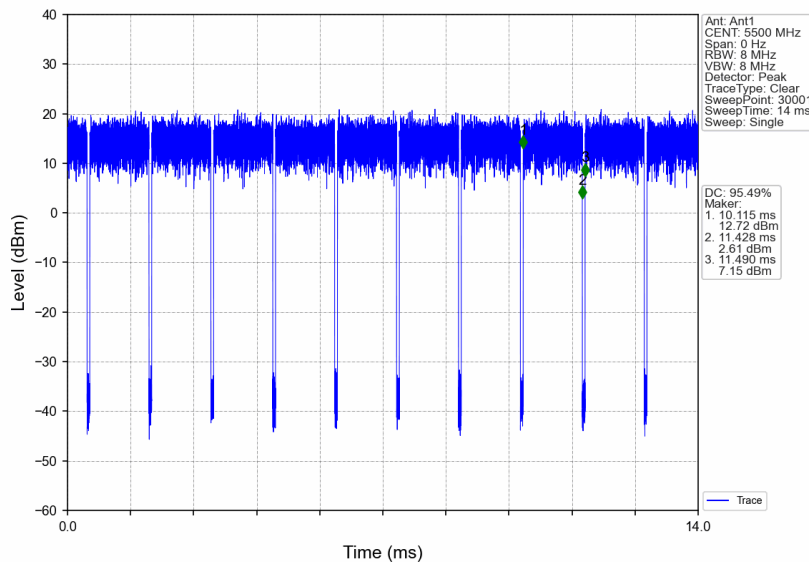
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802.11ac(VHT20) LCH 5500MHz Ant1 NTNv



802.11ac(VHT20) MCH 5580MHz Ant1 NTNv



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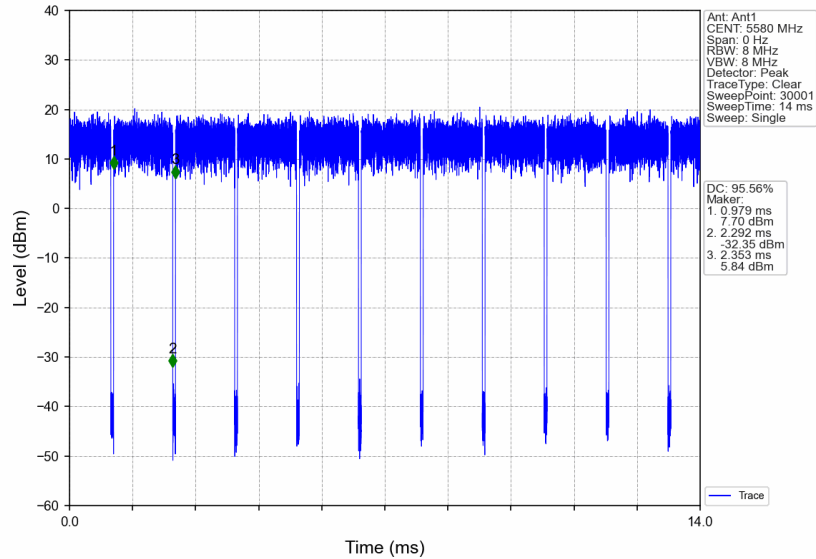
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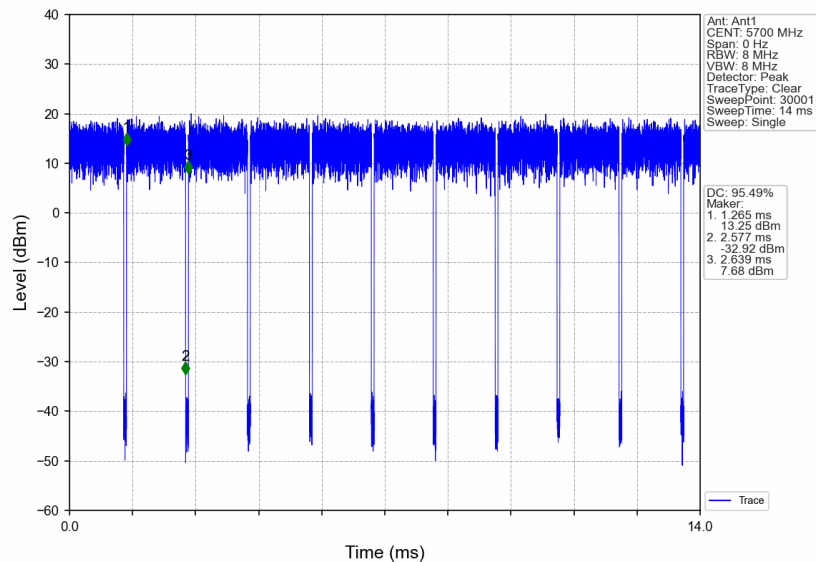
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802.11ac(VHT20) HCH 5700MHz Ant1 NTNv



802.11ac(VHT20) LCH 5745MHz Ant1 NTNv



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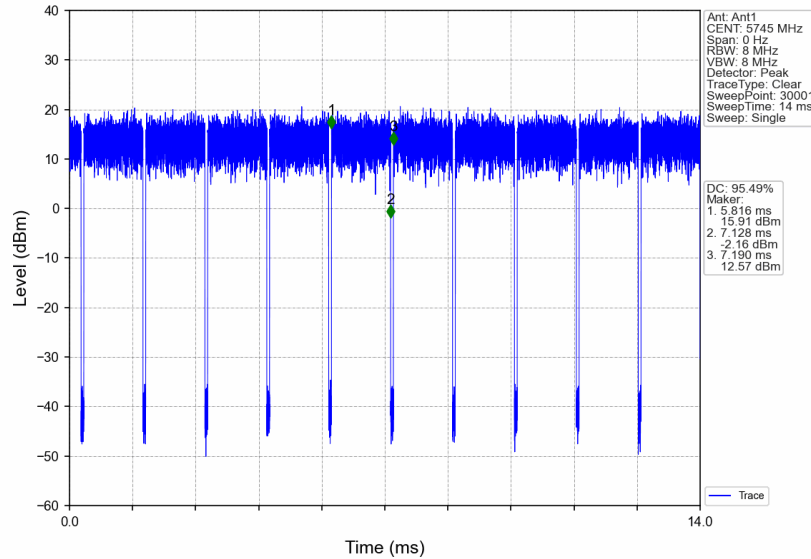
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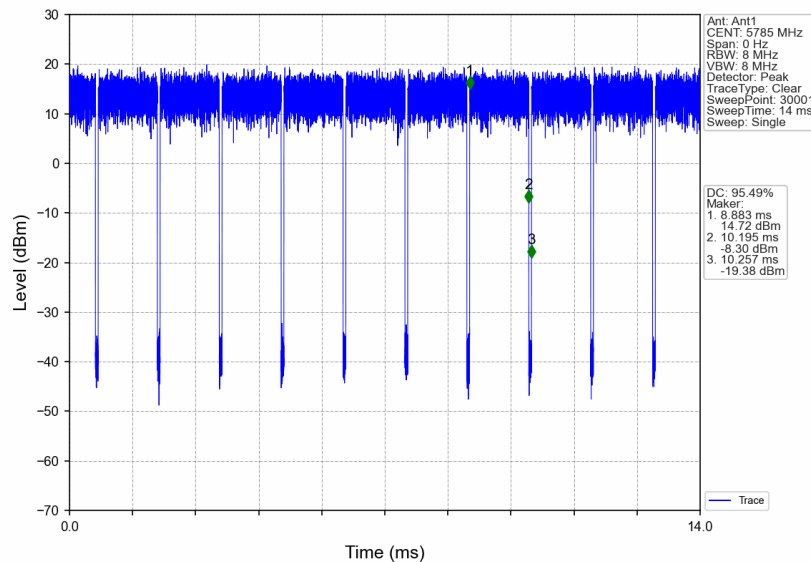
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802.11ac(VHT20) MCH 5785MHz Ant1 NTNv



802.11ac(VHT20) HCH 5825MHz Ant1 NTNv



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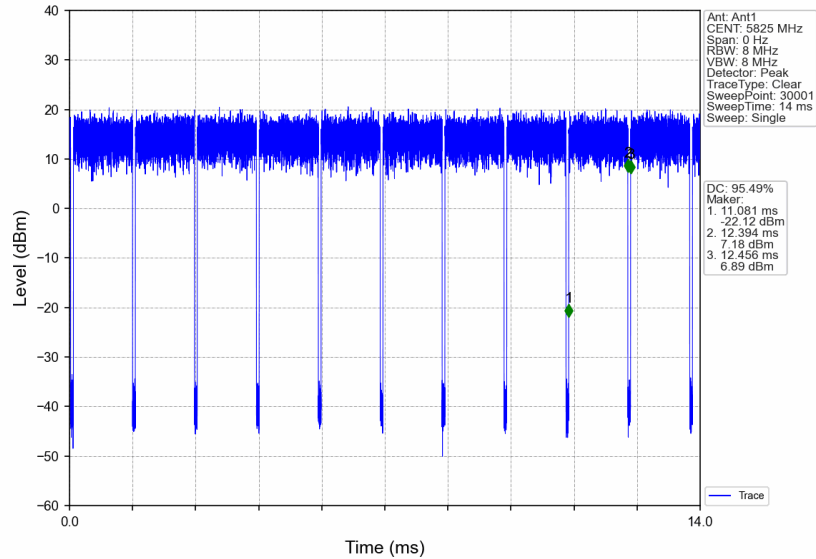
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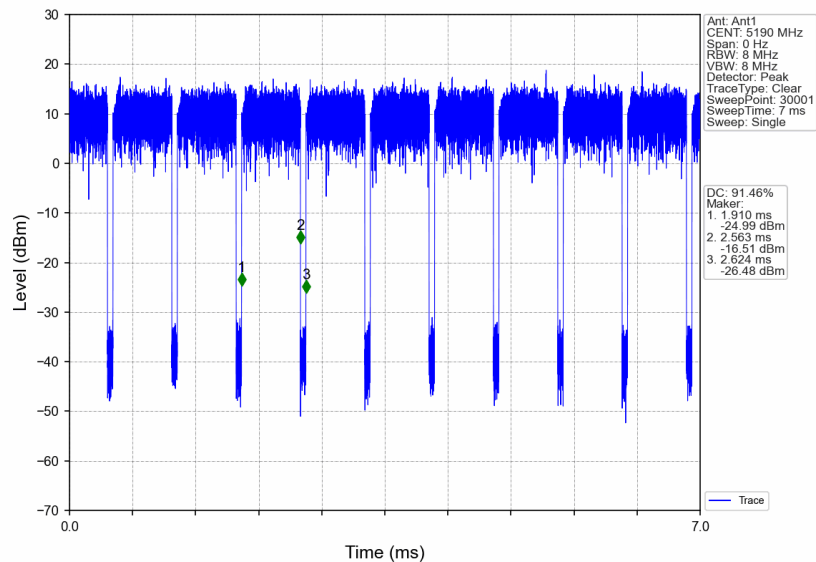
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802.11ac(VHT40) LCH 5190MHz Ant1 NTNv



802.11ac(VHT40) HCH 5230MHz Ant1 NTNv



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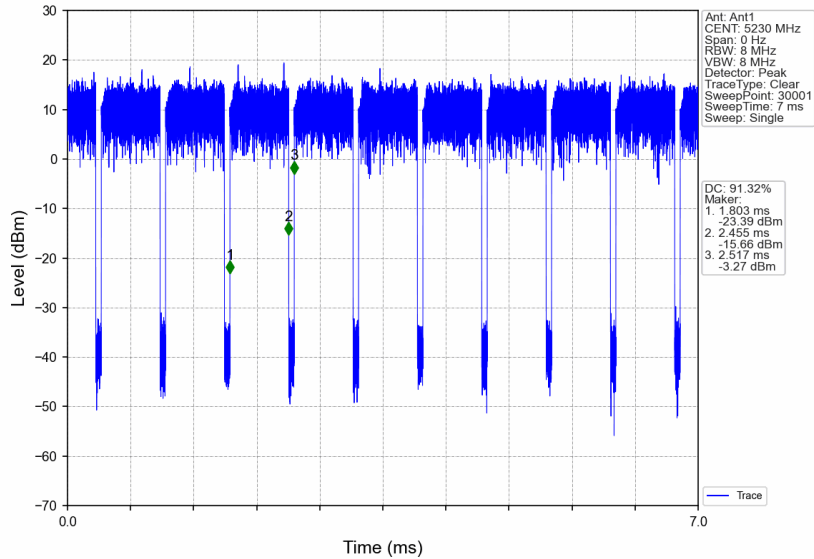
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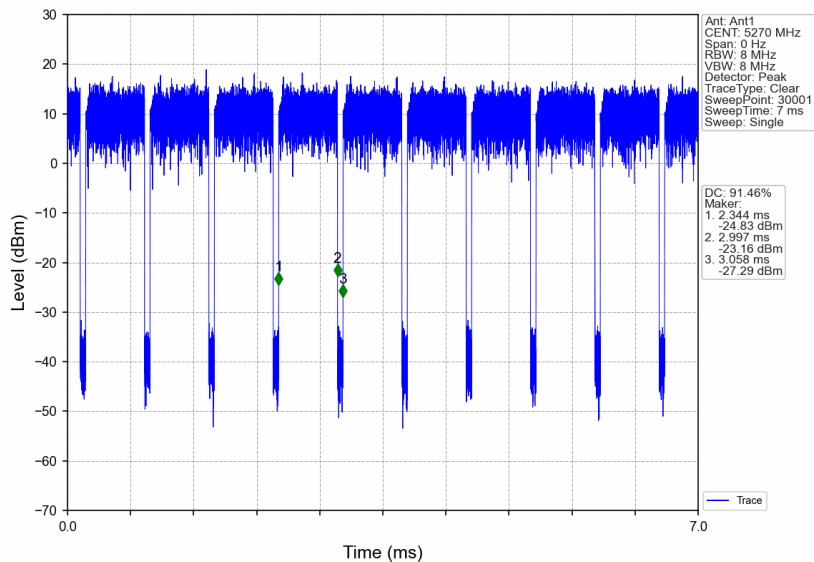
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802.11ac(VHT40) LCH 5270MHz Ant1 NTNv



802.11ac(VHT40) HCH 5310MHz Ant1 NTNv



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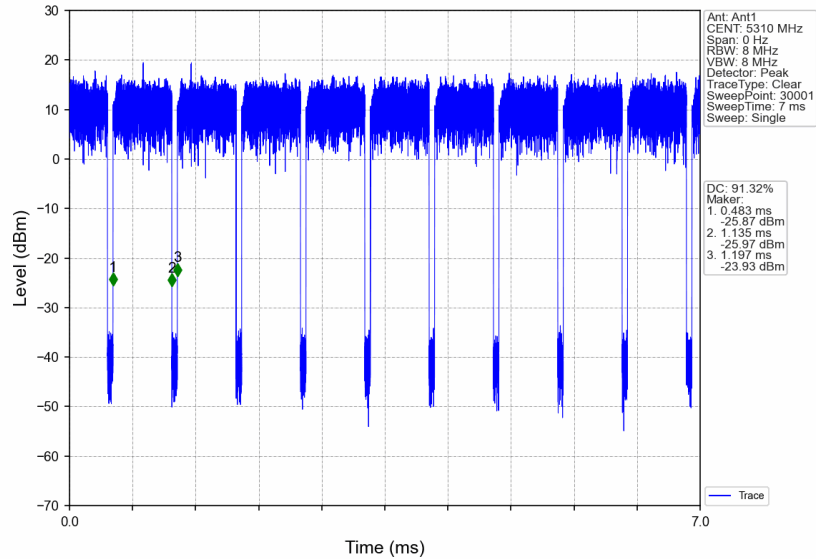
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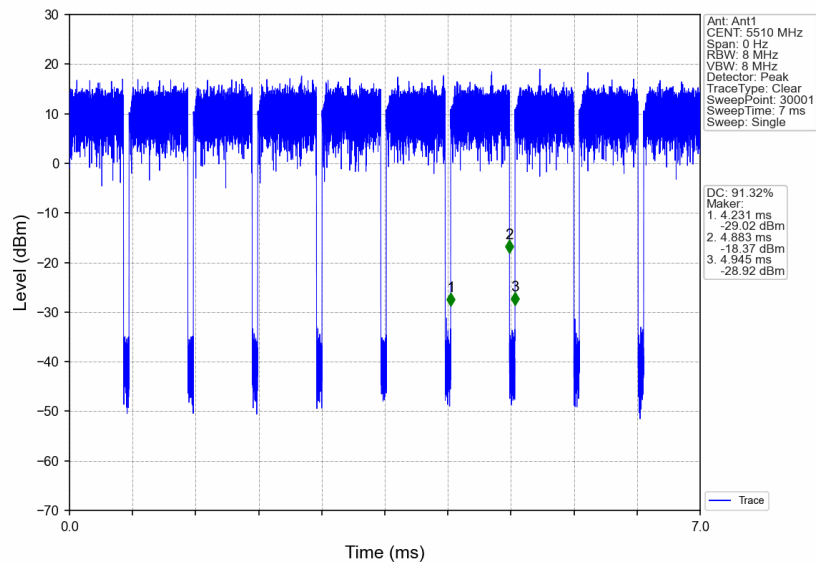
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802.11ac(VHT40) LCH 5510MHz Ant1 NTNv



802.11ac(VHT40) MCH 5550MHz Ant1 NTNv



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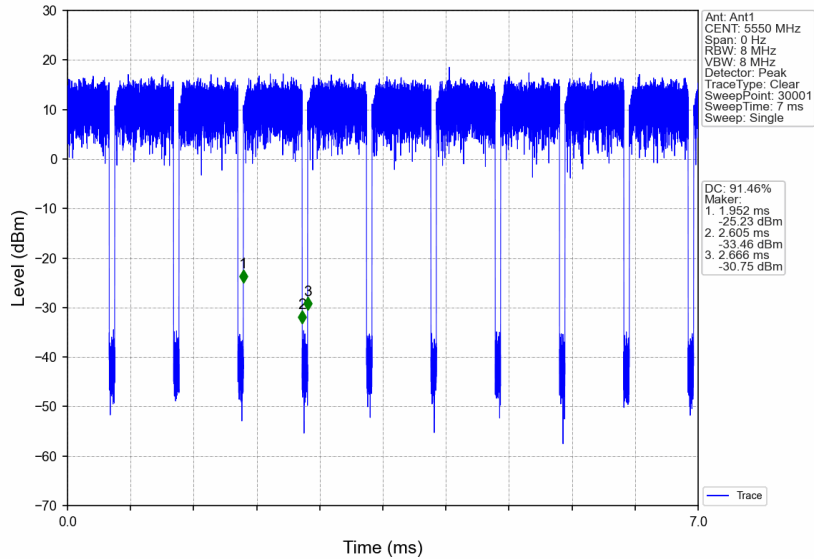
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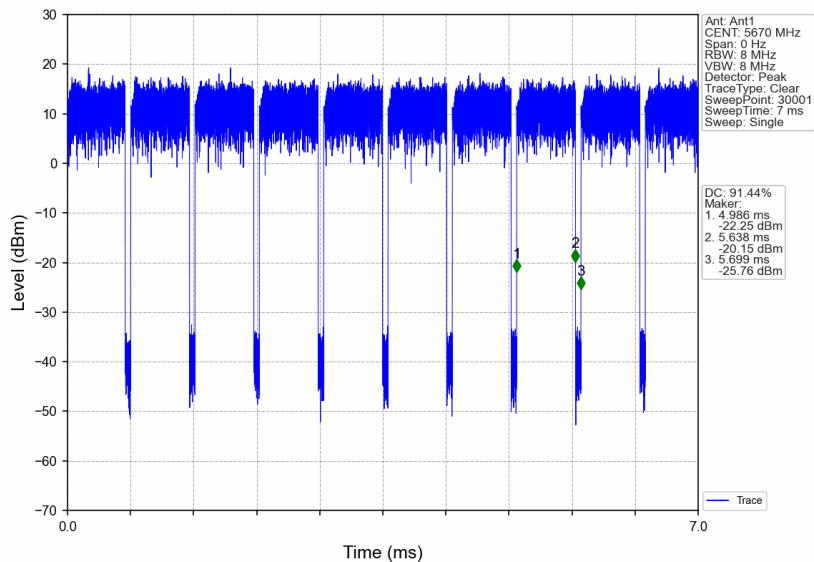
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802.11ac(VHT40) HCH 5670MHz Ant1 NTNv



802.11ac(VHT40) LCH 5755MHz Ant1 NTNv



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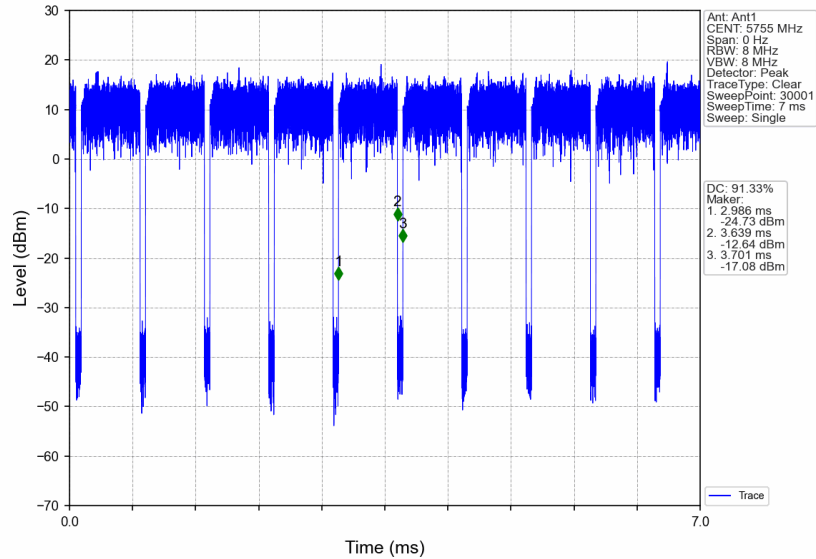
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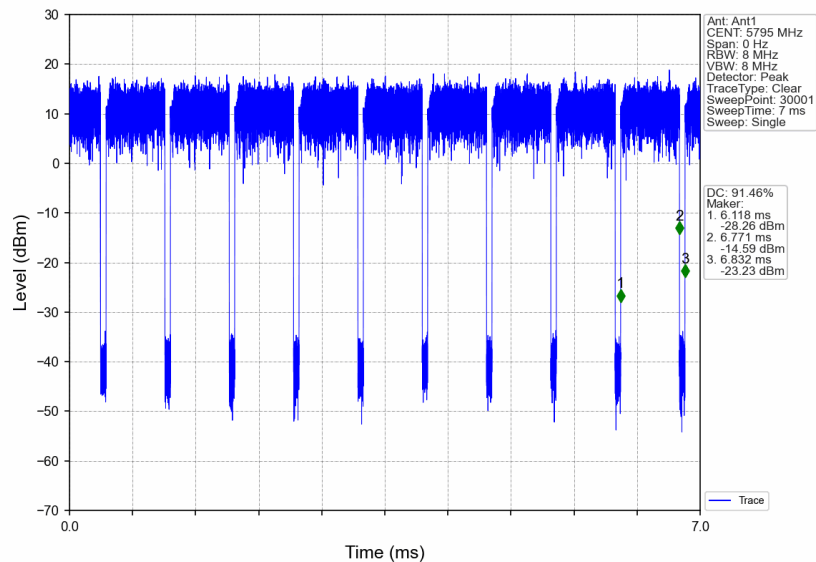
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802.11ac(VHT40) HCH 5795MHz Ant1 NTNv



802.11ac(VHT80) MCH 5210MHz Ant1 NTNv



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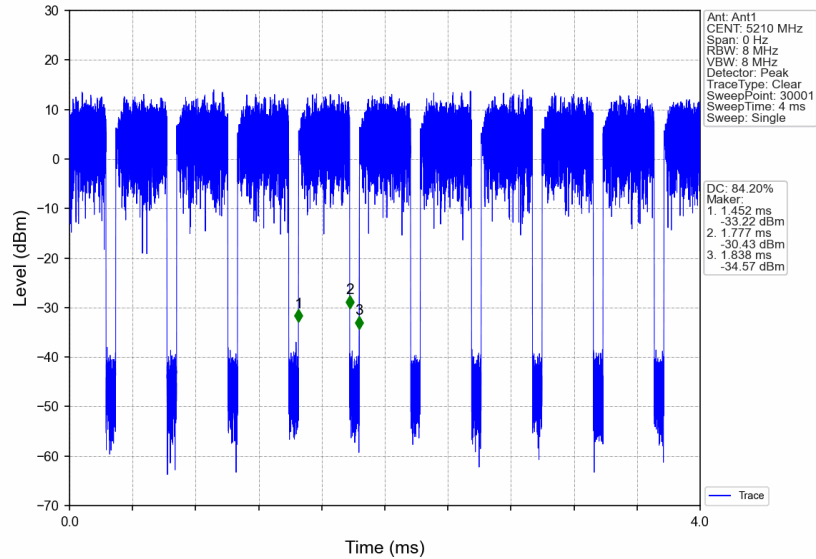
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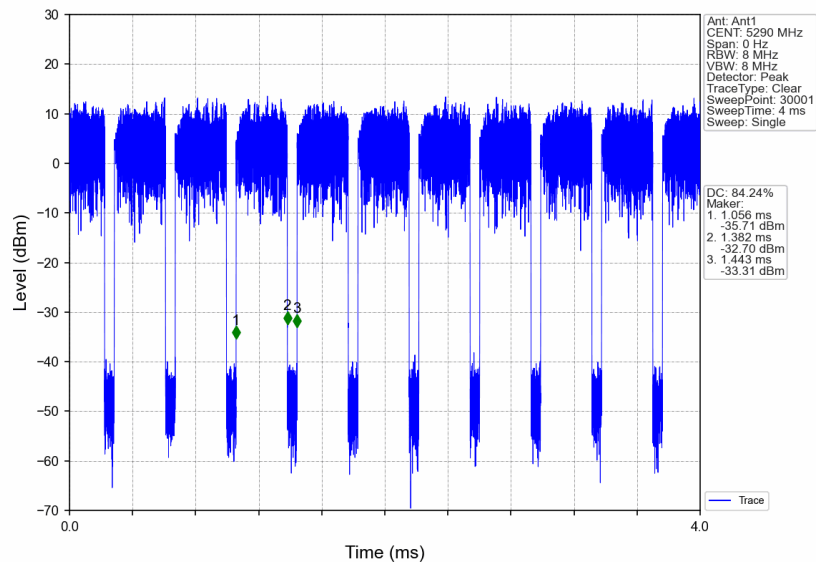
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802.11ac(VHT80) MCH 5290MHz Ant1 NTNv



802.11ac(VHT80) LCH 5530MHz Ant1 NTNv



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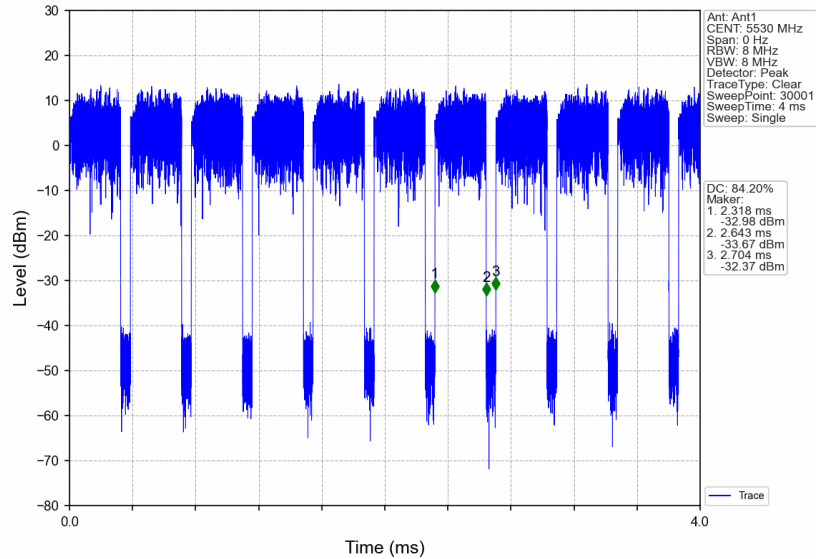
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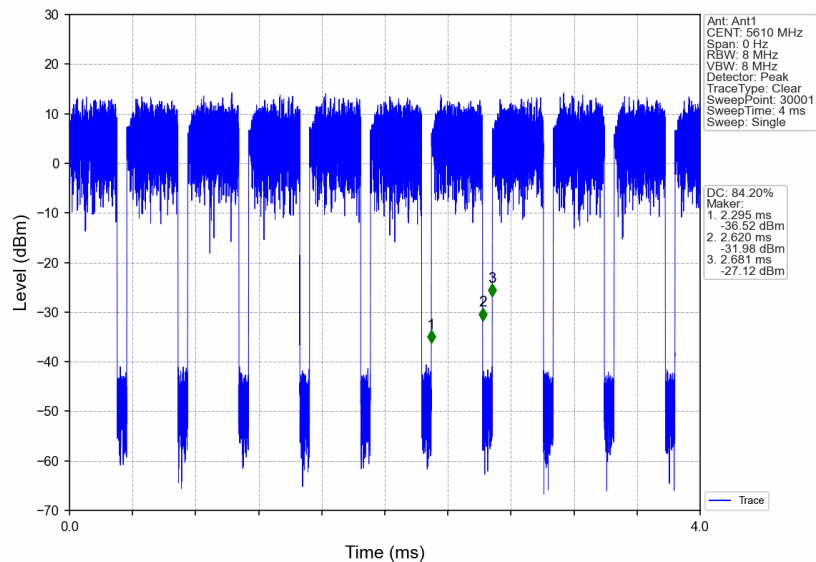
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802.11ac(VHT80) HCH 5610MHz Ant1 NTV



802.11ac(VHT80) MCH 5775MHz Ant1 NTV

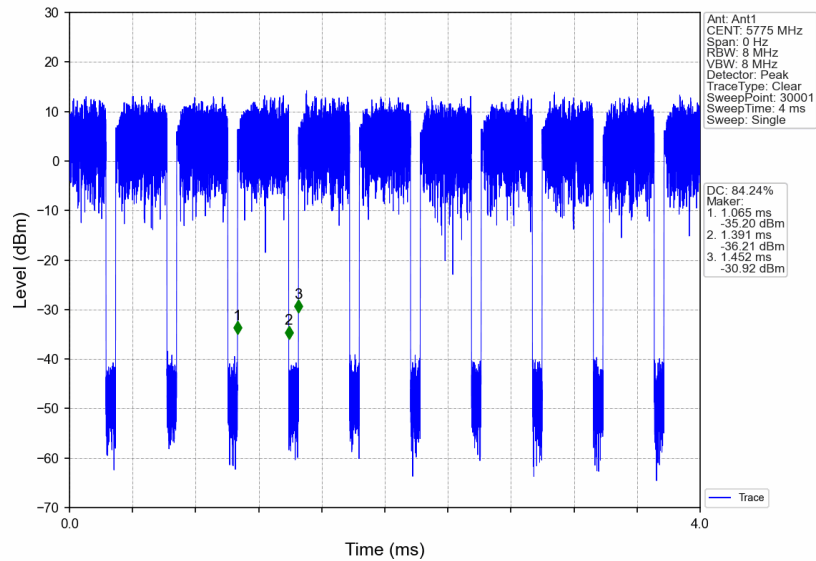


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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	17.309	Pass
			2	17.420	Pass
		5200	1	17.284	Pass
			2	17.531	Pass
		5240	1	17.403	Pass
			2	17.697	Pass
		5260	1	17.307	Pass
			2	17.562	Pass
		5300	1	17.455	Pass
			2	17.767	Pass
		5320	1	17.537	Pass
			2	18.205	Pass
		5500	1	17.604	Pass
			2	17.366	Pass
		5580	1	18.231	Pass
			2	17.678	Pass
		5700	1	17.559	Pass
			2	17.227	Pass
		5745	1	17.556	Pass
			2	17.203	Pass
		5785	1	17.591	Pass
			2	17.704	Pass
		5825	1	17.242	Pass
			2	17.364	Pass
802.11n (HT20)	MIMO	5180	1	18.279	Pass
			2	18.237	Pass
		5200	1	18.257	Pass
			2	18.270	Pass
		5240	1	18.222	Pass
			2	18.205	Pass
		5260	1	18.283	Pass
			2	18.343	Pass
		5300	1	18.329	Pass
			2	18.275	Pass
		5320	1	18.449	Pass
			2	18.397	Pass



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		5500	1	18.592	Pass
			2	18.610	Pass
		5580	1	19.013	Pass
			2	19.131	Pass
		5700	1	18.360	Pass
			2	18.342	Pass
		5745	1	18.289	Pass
			2	18.308	Pass
		5785	1	18.392	Pass
			2	18.377	Pass
		5825	1	18.562	Pass
			2	18.558	Pass
802.11n (HT40)	MIMO	5190	1	36.718	Pass
			2	36.809	Pass
		5230	1	36.749	Pass
			2	36.851	Pass
		5270	1	36.694	Pass
			2	36.722	Pass
		5310	1	36.900	Pass
			2	36.900	Pass
		5510	1	36.960	Pass
			2	36.927	Pass
		5550	1	37.487	Pass
			2	37.485	Pass
		5670	1	37.162	Pass
			2	37.173	Pass
		5755	1	36.884	Pass
			2	36.941	Pass
		5795	1	37.216	Pass
			2	37.229	Pass
802.11ac (VHT20)	MIMO	5180	1	18.217	Pass
			2	18.086	Pass
		5200	1	18.201	Pass
			2	18.439	Pass
		5240	1	18.226	Pass
			2	18.262	Pass
		5260	1	18.227	Pass
			2	18.200	Pass
		5300	1	18.281	Pass
			2	18.319	Pass
		5320	1	18.316	Pass
			2	18.401	Pass
		5500	1	18.627	Pass
			2	18.482	Pass
		5580	1	18.831	Pass
			2	19.062	Pass



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Report No.: KSCR221000189002

Page: 297 of 607

		5700	1	18.553	Pass
			2	18.676	Pass
		5745	1	18.256	Pass
			2	18.293	Pass
		5785	1	18.099	Pass
			2	18.207	Pass
		5825	1	18.187	Pass
			2	18.102	Pass
802.11ac (VHT40)	MIMO	5190	1	36.384	Pass
			2	36.361	Pass
		5230	1	36.346	Pass
			2	36.346	Pass
		5270	1	36.376	Pass
			2	36.332	Pass
		5310	1	36.648	Pass
			2	36.800	Pass
		5510	1	36.792	Pass
			2	36.870	Pass
		5550	1	37.595	Pass
			2	37.178	Pass
		5670	1	36.800	Pass
			2	36.739	Pass
		5755	1	36.456	Pass
			2	36.408	Pass
		5795	1	36.732	Pass
			2	36.917	Pass
802.11ac (VHT80)	MIMO	5210	1	76.563	Pass
			2	76.546	Pass
		5290	1	76.414	Pass
			2	76.620	Pass
		5530	1	76.620	Pass
			2	76.899	Pass
		5610	1	76.715	Pass
			2	76.680	Pass
		5775	1	76.502	Pass
			2	76.401	Pass

2.1.2 Test Graph

802.11a LCH_5180MHz_Ant1_NTNV

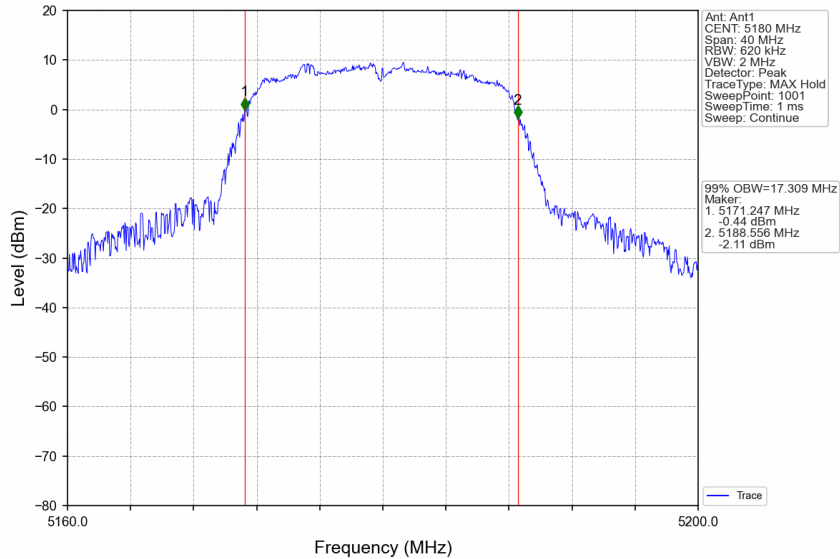


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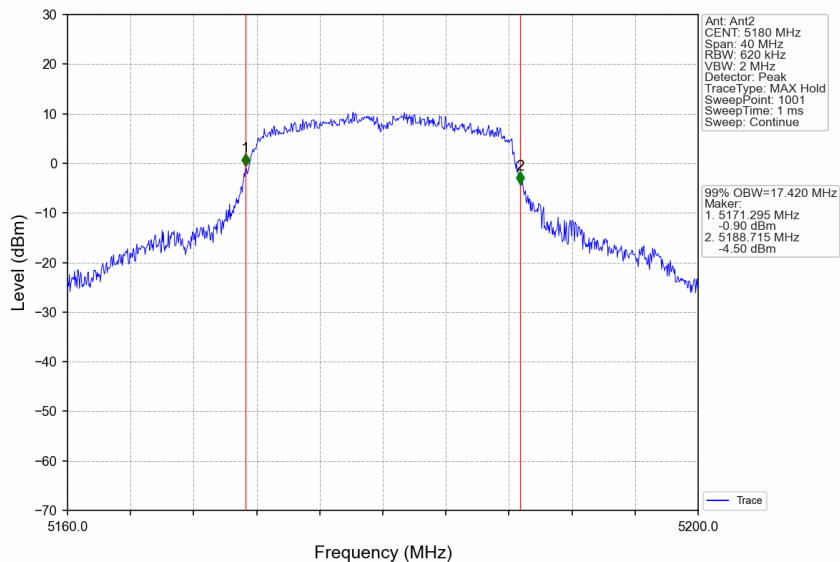
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802.11a LCH 5180MHz Ant2 NTN



802.11a MCH 5200MHz Ant1 NTN

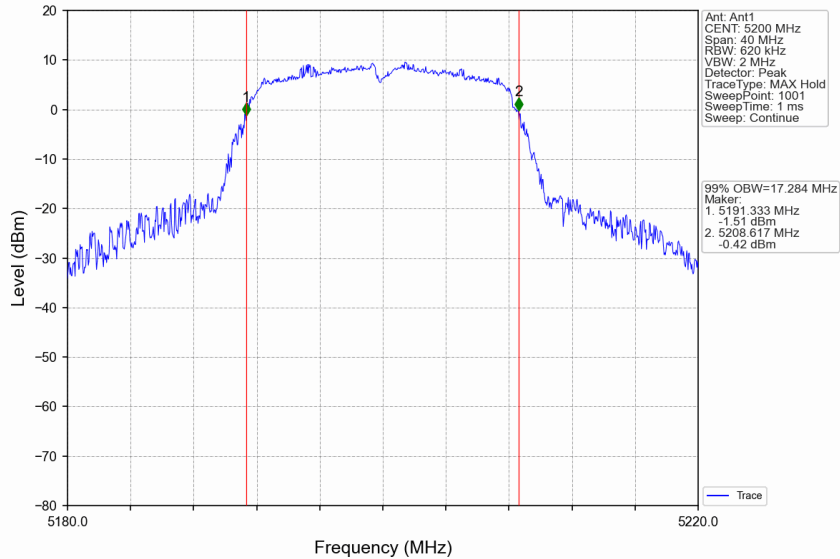


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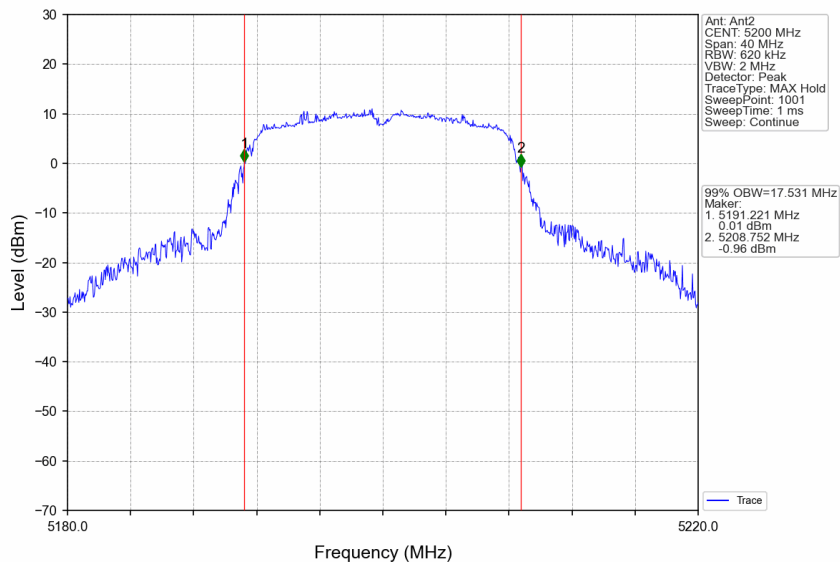
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802.11a MCH 5200MHz Ant2 NTN



802.11a HCH 5240MHz Ant1 NTN

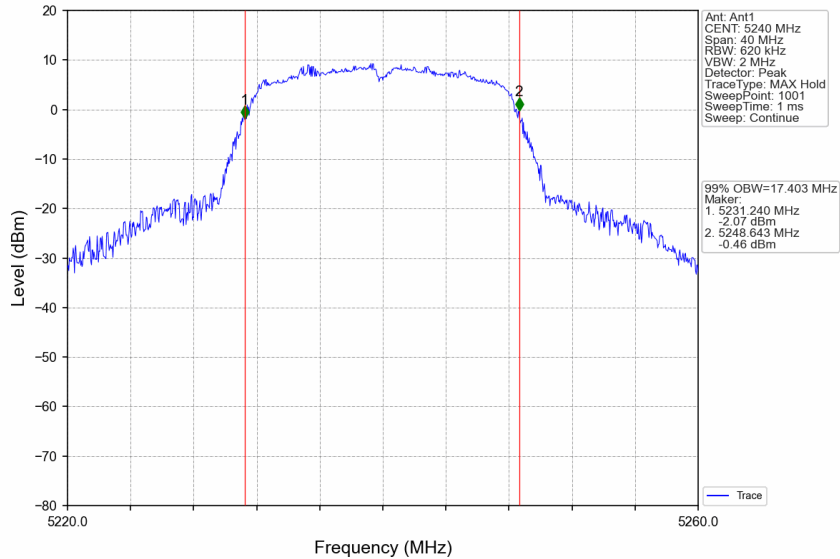


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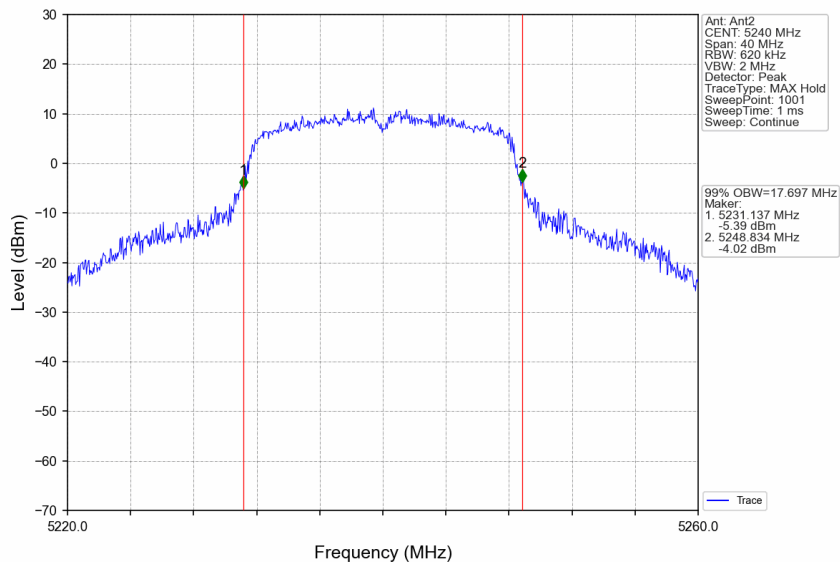
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802.11a HCH 5240MHz Ant2 NTN



802.11a LCH 5260MHz Ant1 NTN



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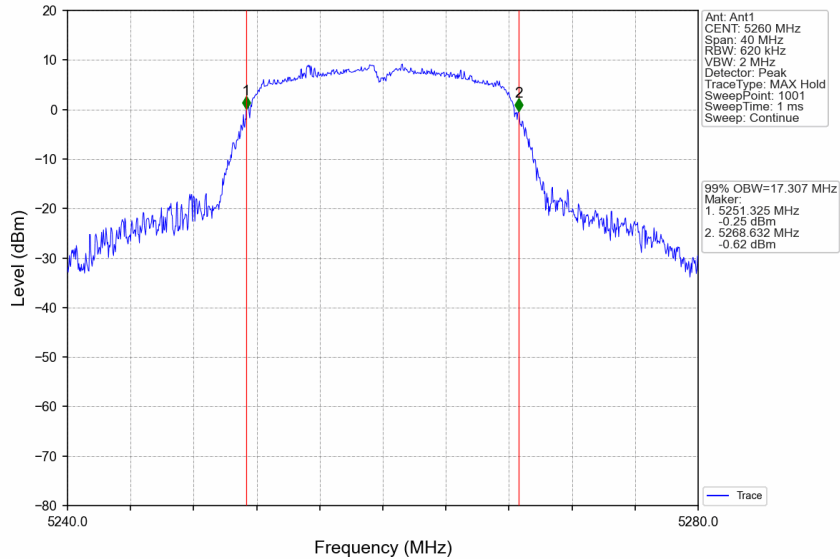
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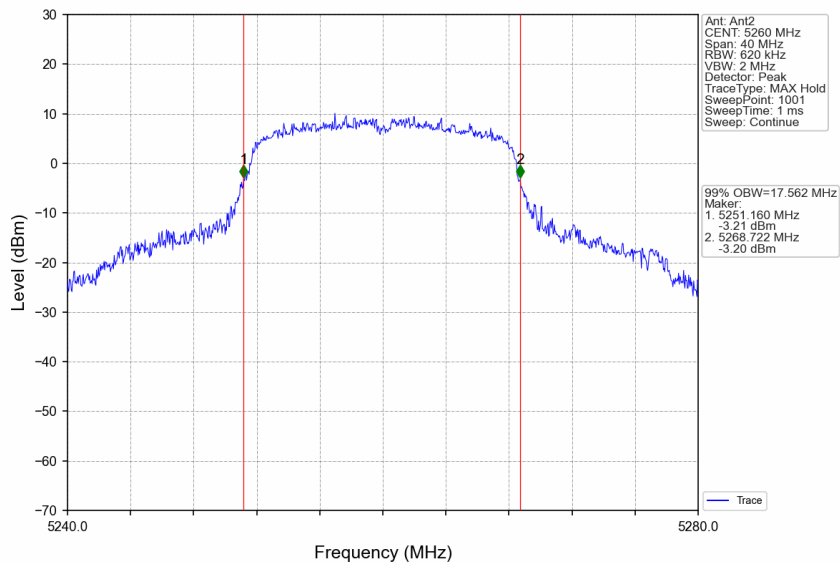
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802.11a LCH 5260MHz Ant2 NTNv



802.11a MCH 5300MHz Ant1 NTNv

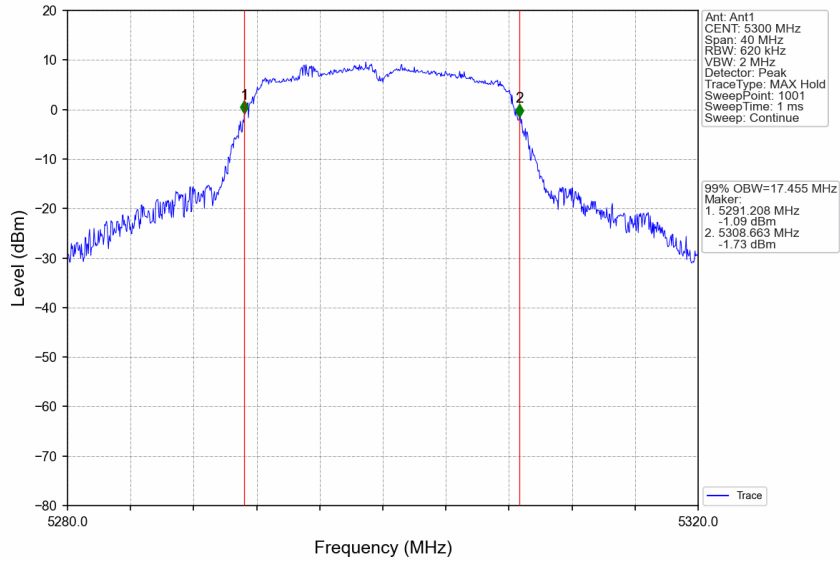


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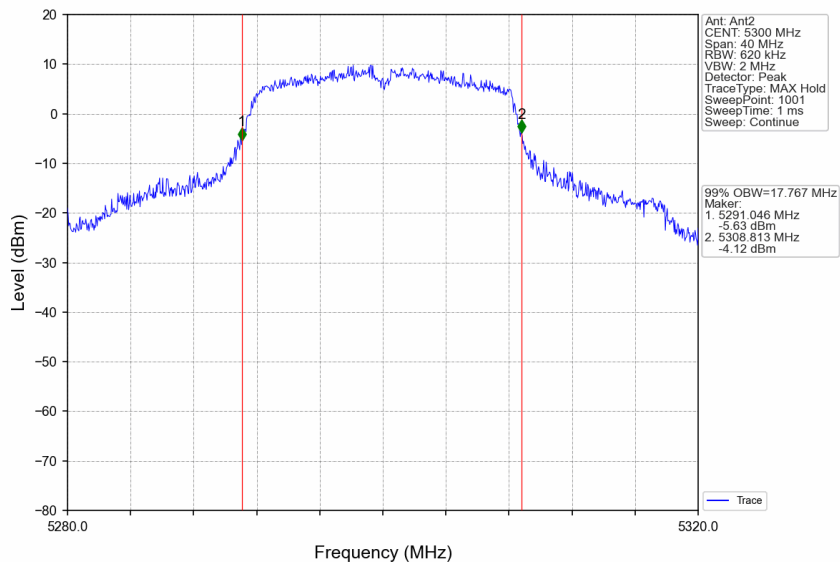
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802.11a MCH 5300MHz Ant2 NTN



802.11a HCH 5320MHz Ant1 NTN



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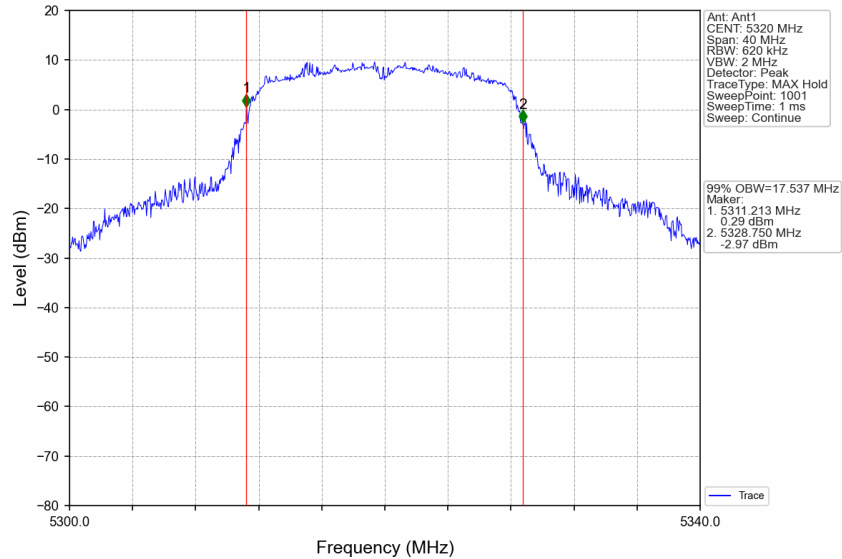
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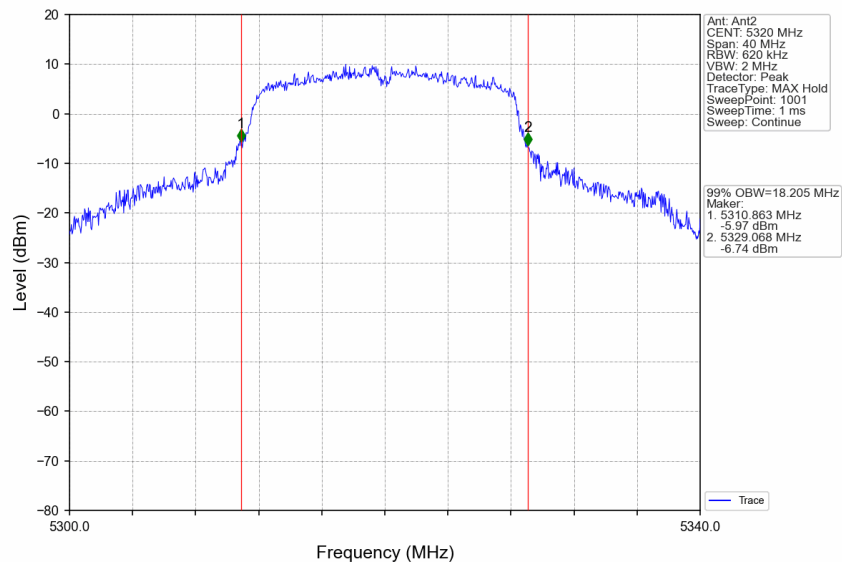
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802.11a HCH 5320MHz Ant2 NTN



802.11a LCH 5500MHz Ant1 NTN

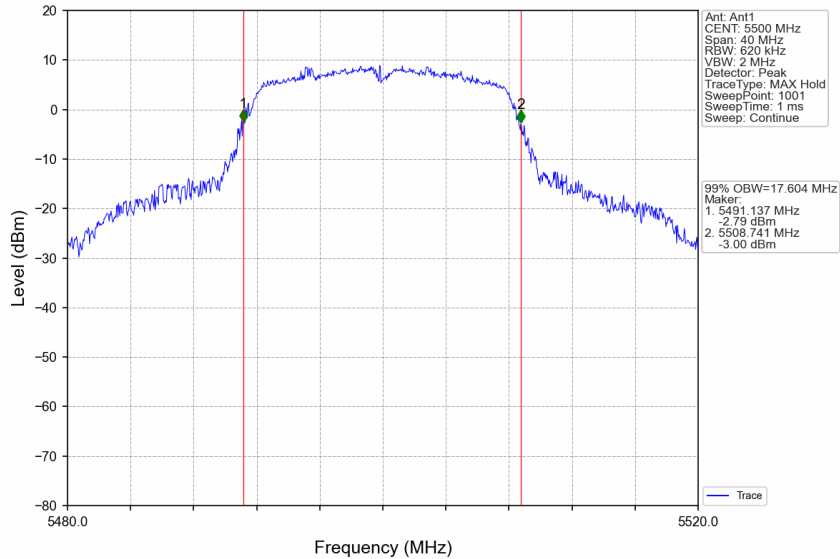


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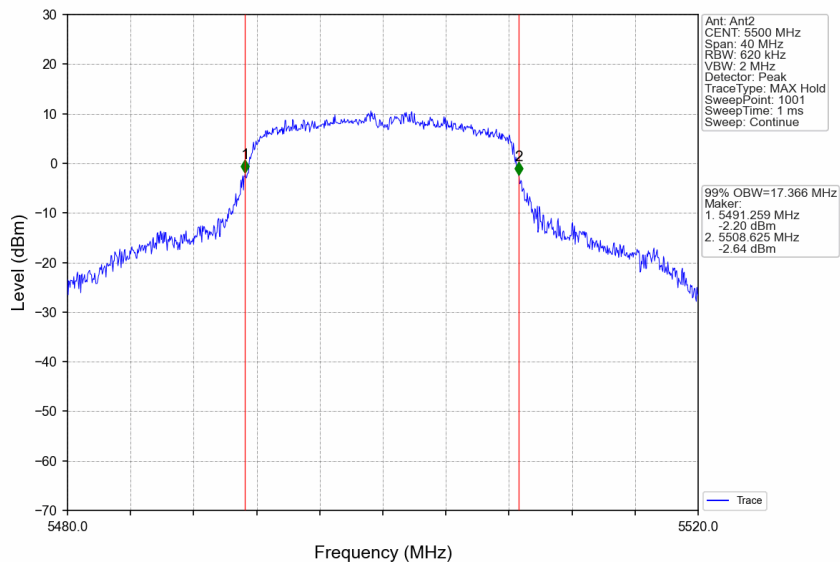
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802.11a LCH 5500MHz Ant2 NTN



802.11a MCH 5580MHz Ant1 NTN

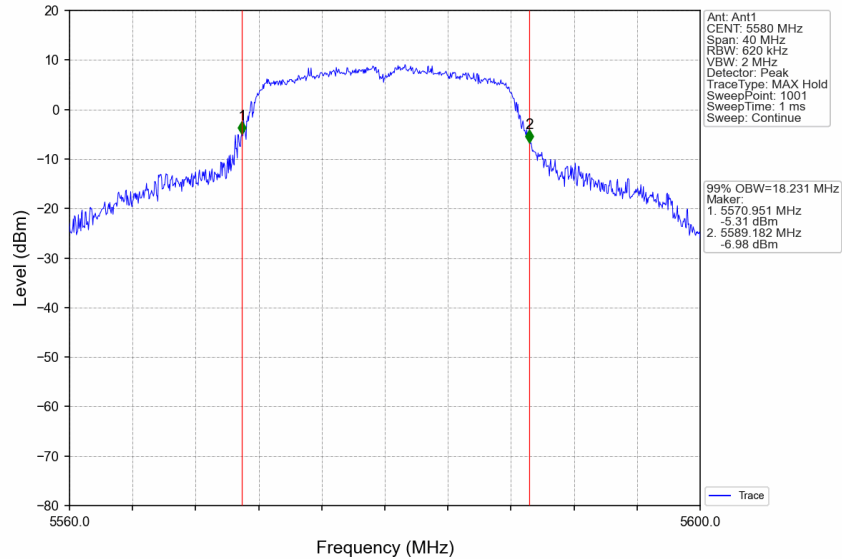


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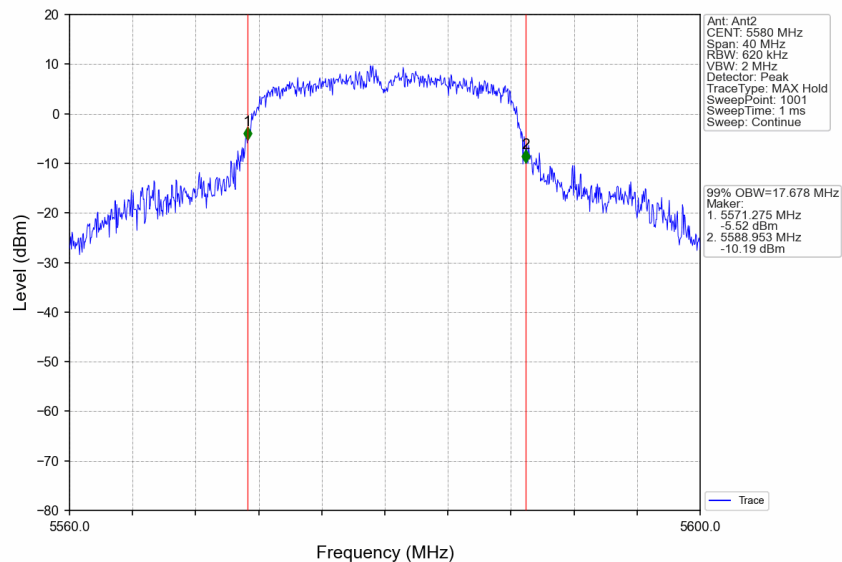
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802.11a MCH 5580MHz Ant2 NTN



802.11a HCH 5700MHz Ant1 NTN



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