

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

Measurement Distance: 3m

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: 23.0 °C Humidity: 51.8 % RH Atmospheric Pressure: 1020 mbar

7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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 @ 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	03	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 @ 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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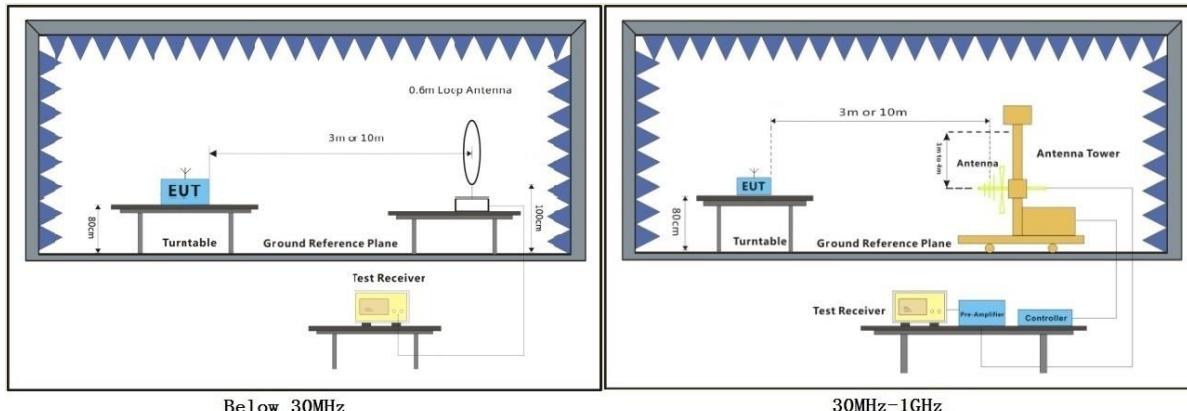
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Pre-scan	04	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	05	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 @ 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.14.3 Test Setup Diagram



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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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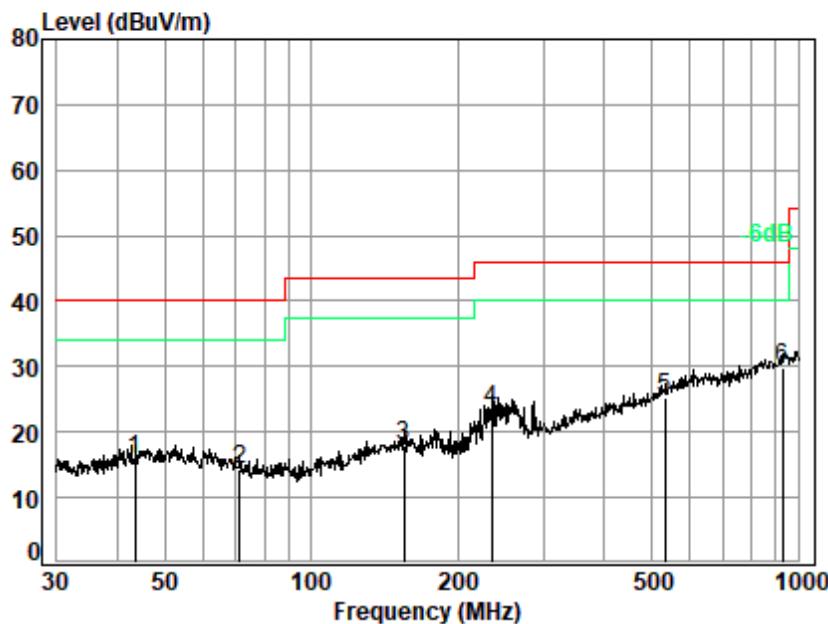
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00525AT

Mode : 02

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	43.506	0.22	17.27	25.87	24.28	15.90	40.00 -24.10 QP
2	71.330	0.33	15.56	25.83	24.21	14.27	40.00 -25.73 QP
3	154.821	0.88	17.32	25.52	25.30	17.98	43.50 -25.52 QP
4	234.991	0.81	16.21	25.26	31.69	23.45	46.00 -22.55 QP
5	533.832	1.71	23.61	25.27	25.27	25.32	46.00 -20.68 QP
6	929.008	2.25	29.06	26.37	24.96	29.90	46.00 -16.10 QP

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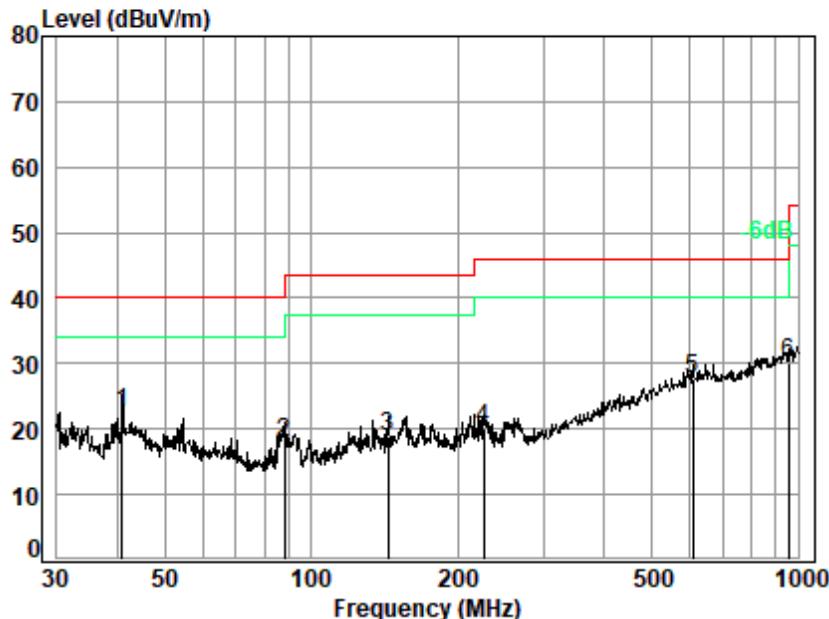
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: low



Site : chamber

Condition: 3m VERTICAL

Job No : 00525AT

Mode : 02

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	40.845	0.21	16.91	25.88	31.16	22.40	40.00 -17.60 QP
2	88.033	0.64	13.54	25.81	29.73	18.10	43.50 -25.40 QP
3	143.830	0.95	17.44	25.57	25.96	18.78	43.50 -24.72 QP
4	226.099	0.78	15.96	25.28	28.67	20.13	46.00 -25.87 QP
5	607.787	2.24	24.48	25.36	26.39	27.75	46.00 -18.25 QP
6	955.438	2.26	29.30	26.30	24.98	30.24	46.00 -15.76 QP

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2212000525AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2212000525AT



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10 Appendix

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	2.066	2.296	89.98	0.46	5.25
		5200	2.066	2.287	90.34	0.44	4.90
		5240	2.065	2.295	89.98	0.46	5.64
		5260	2.065	2.286	90.33	0.44	4.90
		5300	2.066	2.287	90.34	0.44	3.72
		5320	2.065	2.285	90.37	0.44	4.87
		5500	2.065	2.259	91.41	0.39	3.81
		5580	2.065	2.286	90.33	0.44	4.90
		5700	2.065	2.294	90.02	0.46	5.25
		5745	2.065	2.285	90.37	0.44	5.26
		5785	2.066	2.295	90.02	0.46	4.86
		5825	2.065	2.295	89.98	0.46	4.48
802.11n (HT20)	MIMO	5180	1.921	2.124	90.44	0.44	4.43
		5200	1.922	2.151	89.35	0.49	5.56
		5240	1.923	2.134	90.11	0.45	5.21
		5260	1.922	2.106	91.26	0.40	3.64
		5300	1.921	2.142	89.68	0.47	5.61
		5320	1.921	2.151	89.31	0.49	4.72
		5500	1.922	2.142	89.73	0.47	5.65
		5580	1.921	2.123	90.49	0.43	4.84
		5700	1.921	2.142	89.68	0.47	5.65
		5745	1.923	2.143	89.73	0.47	5.17
		5785	1.922	3.179	60.46	2.19	34.86
		5825	1.922	2.151	89.35	0.49	5.95
802.11n (HT40)	MIMO	5190	0.946	1.166	81.13	0.91	9.08
		5230	0.945	1.175	80.43	0.95	9.68
		5270	0.946	1.166	81.13	0.91	7.50

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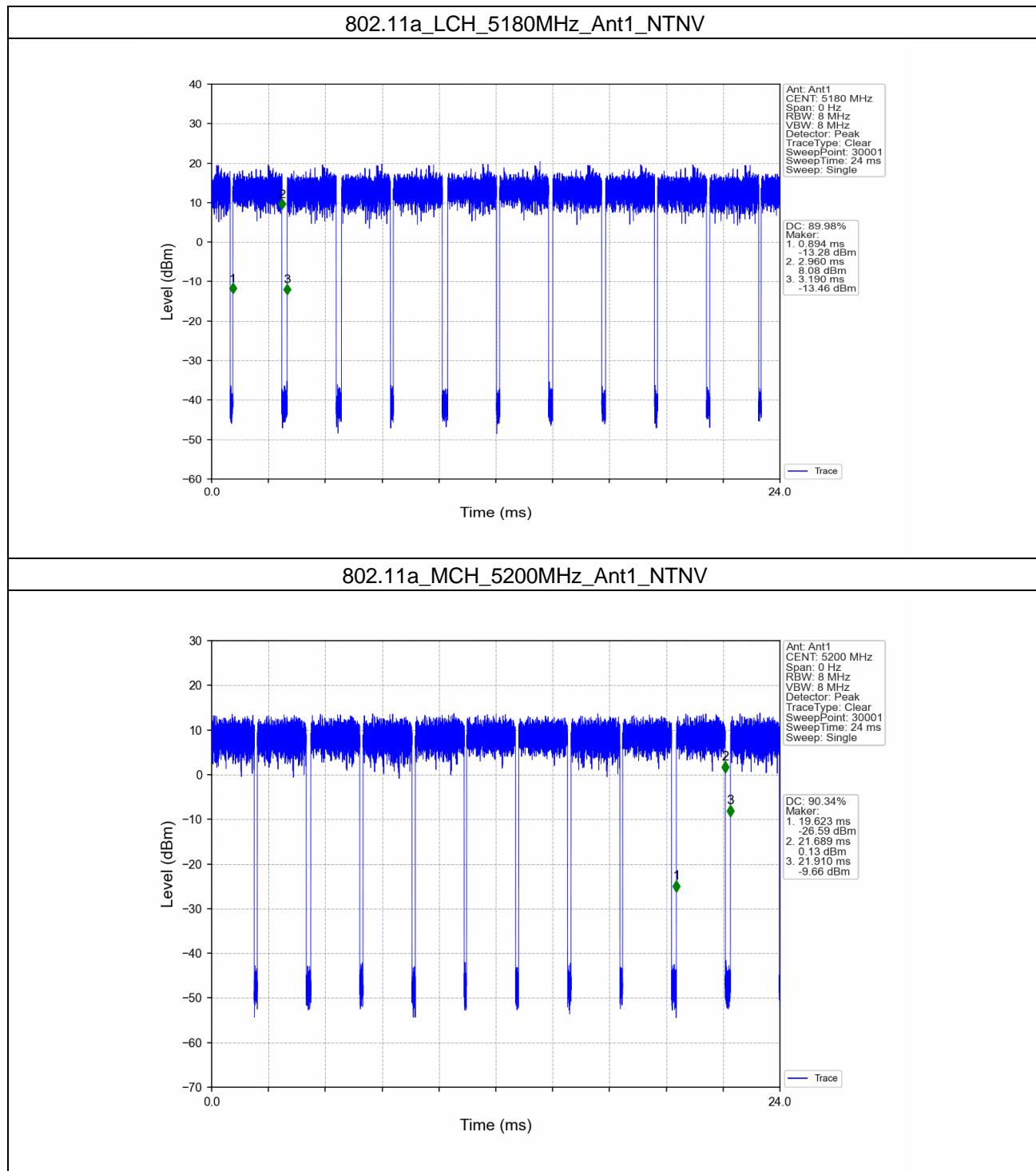
		5310	0.945	1.175	80.43	0.95	9.64
		5510	0.945	1.175	80.43	0.95	10.44
		5550	0.946	1.175	80.51	0.94	5.24
		5670	0.945	1.175	80.43	0.95	10.47
		5755	0.946	1.240	76.29	1.18	14.66
		5795	0.946	1.139	83.06	0.81	7.91
802.11ac (VHT20)	MIMO	5180	1.934	2.187	88.43	0.53	5.41
		5200	1.933	2.187	88.39	0.54	5.84
		5240	1.934	2.178	88.80	0.52	5.46
		5260	1.934	2.187	88.43	0.53	4.59
		5300	1.934	2.187	88.43	0.53	5.82
		5320	1.934	2.187	88.43	0.53	5.82
		5500	1.934	2.187	88.43	0.53	5.85
		5580	1.933	2.160	89.49	0.48	4.71
		5700	1.933	2.186	88.43	0.53	5.78
		5745	1.934	2.170	89.12	0.50	5.07
		5785	1.933	2.160	89.49	0.48	3.91
		5825	1.934	2.142	90.29	0.44	3.14
802.11ac (VHT40)	MIMO	5190	0.953	1.207	78.96	1.03	9.19
		5230	0.953	1.198	79.55	0.99	9.36
		5270	0.953	1.189	80.15	0.96	8.81
		5310	0.954	1.198	79.63	0.99	6.47
		5510	0.953	1.207	78.96	1.03	9.94
		5550	0.954	1.208	78.97	1.03	9.24
		5670	0.954	1.207	79.04	1.02	9.21
		5755	0.954	1.207	79.04	1.02	9.97
		5795	0.954	1.198	79.63	0.99	9.37
802.11ac (VHT80)	MIMO	5210	0.462	0.706	65.44	1.84	11.82
		5290	0.462	0.706	65.44	1.84	14.22
		5530	0.461	0.706	65.30	1.85	12.98
		5610	0.461	0.715	64.48	1.91	15.04
		5775	0.462	0.688	67.15	1.73	10.07

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1.1.2 Test Graph

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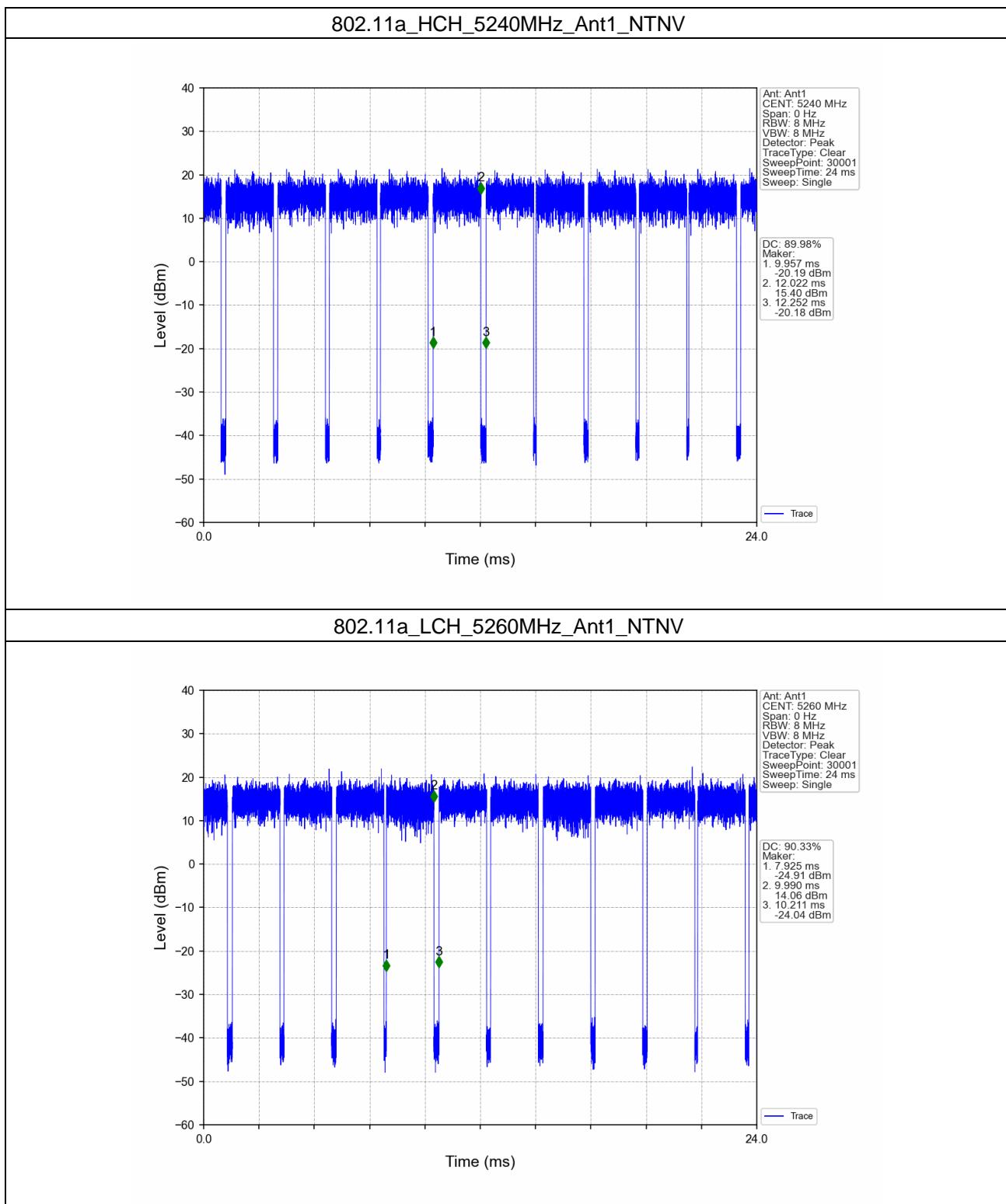
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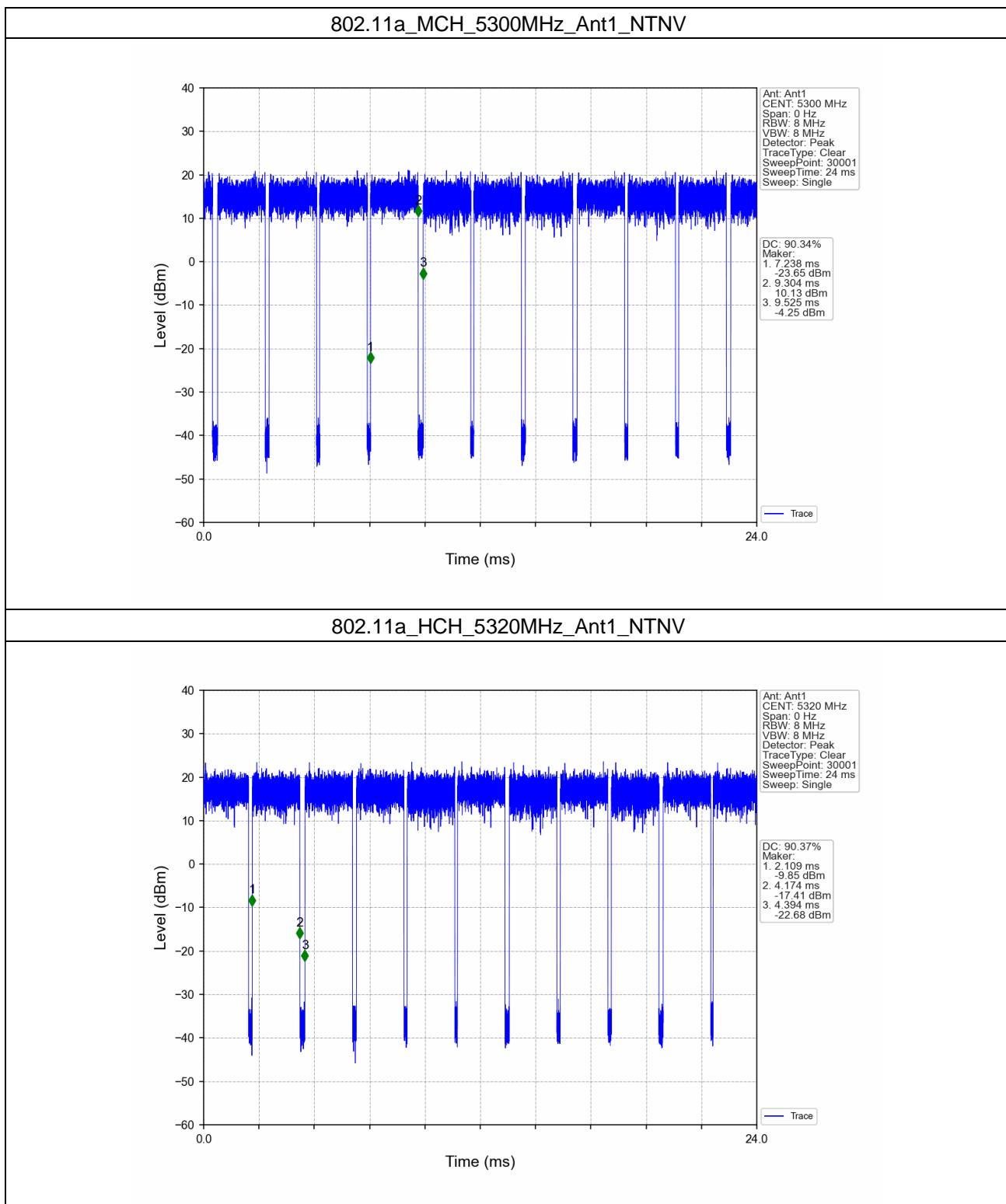
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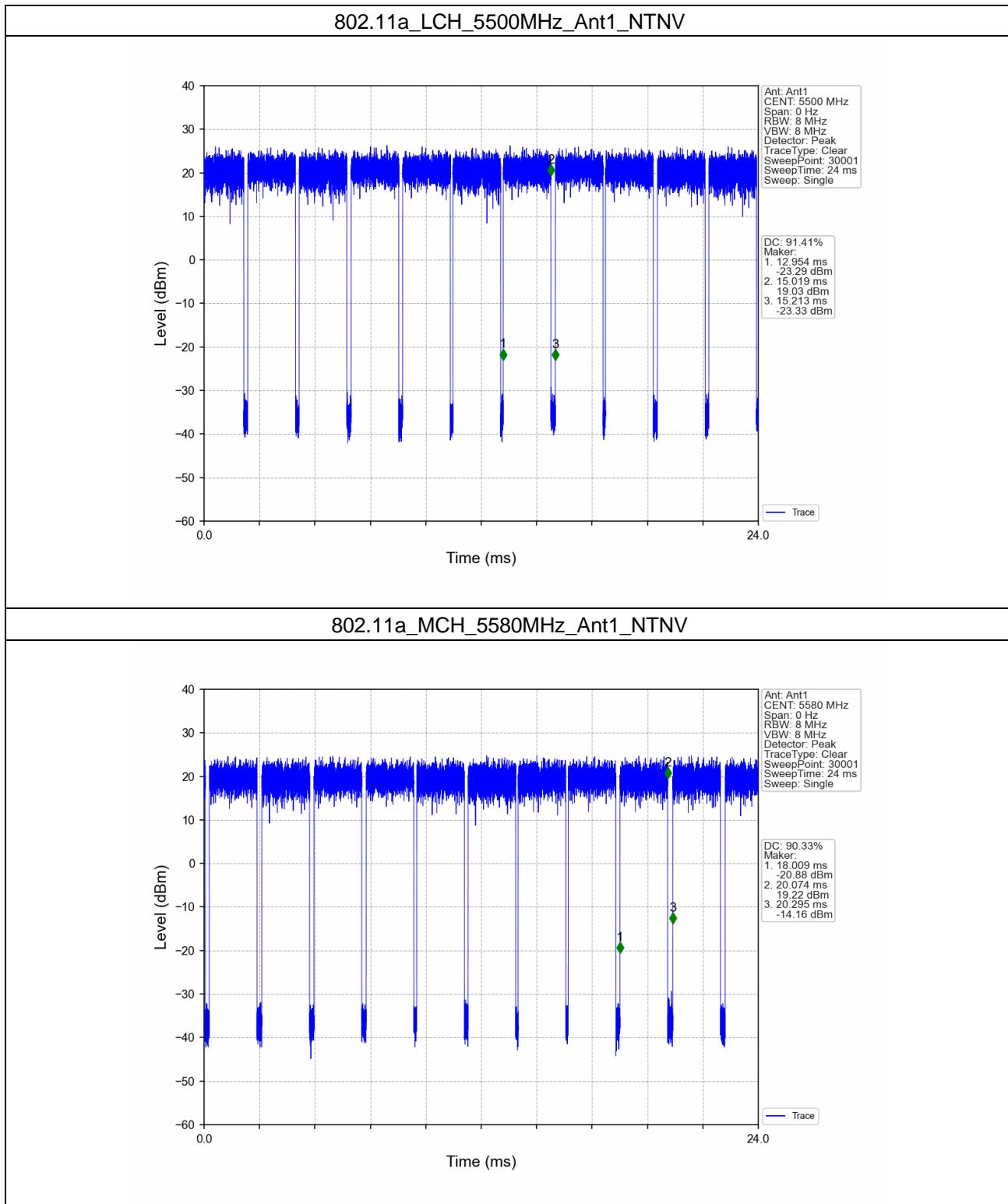
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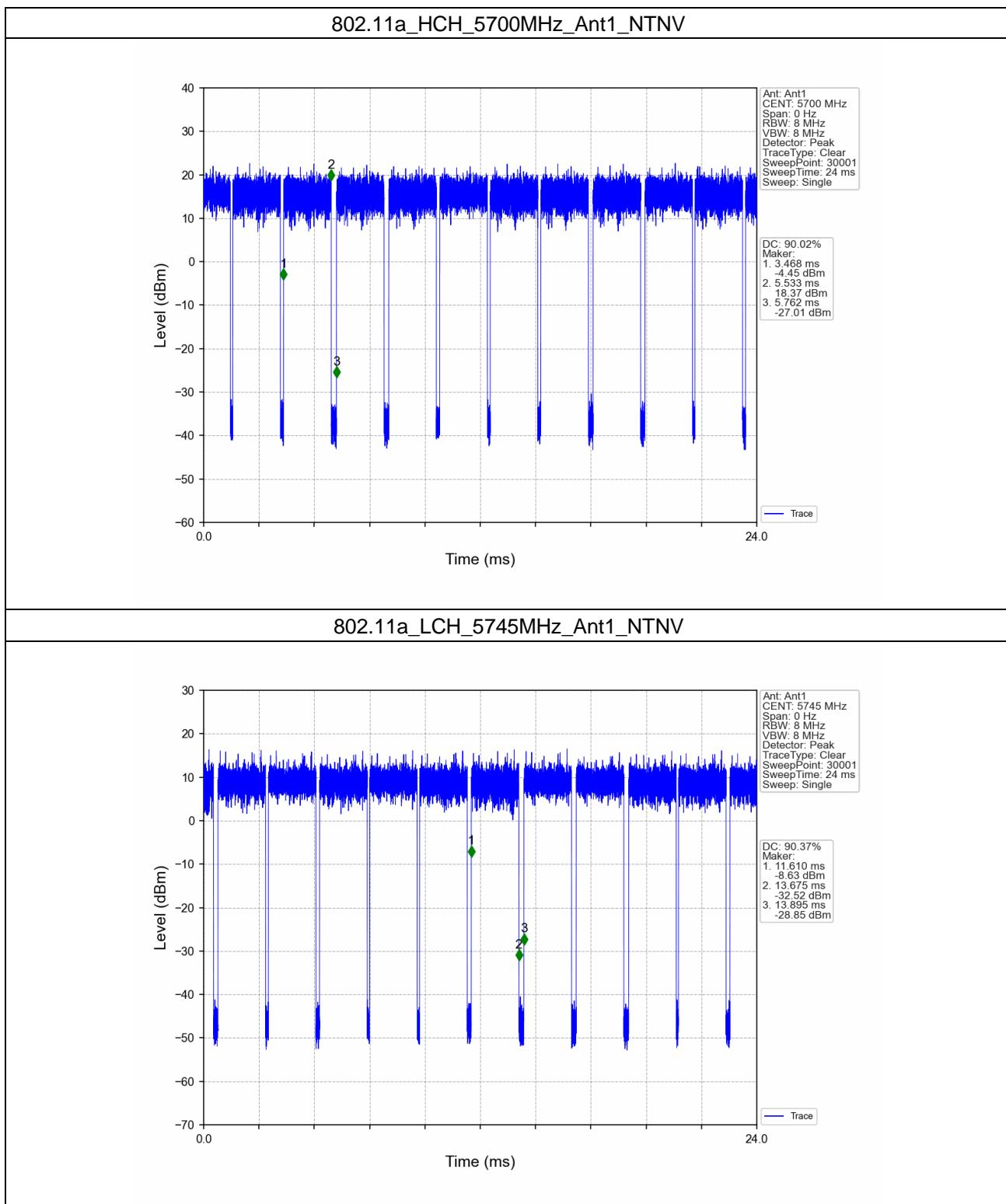


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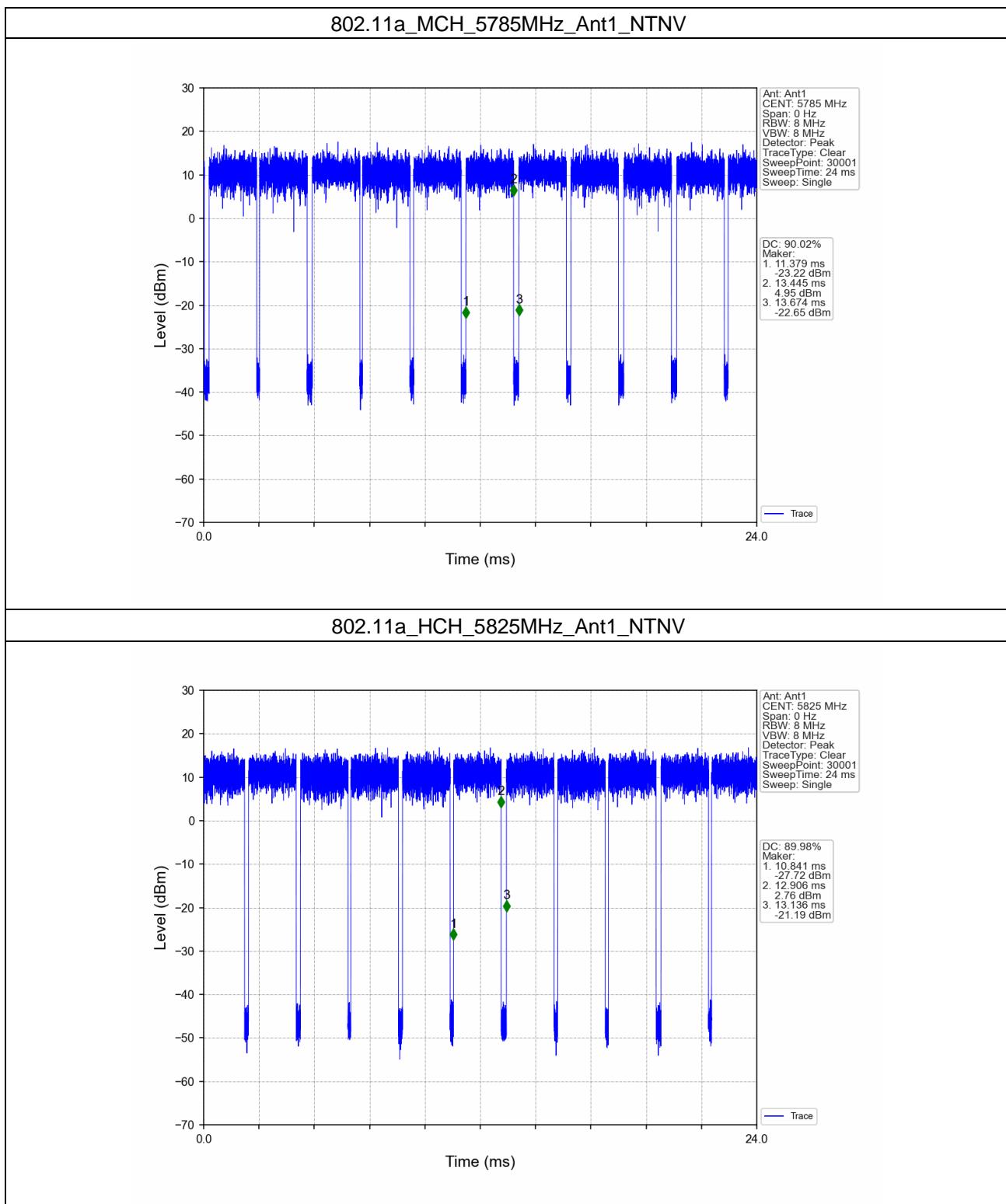
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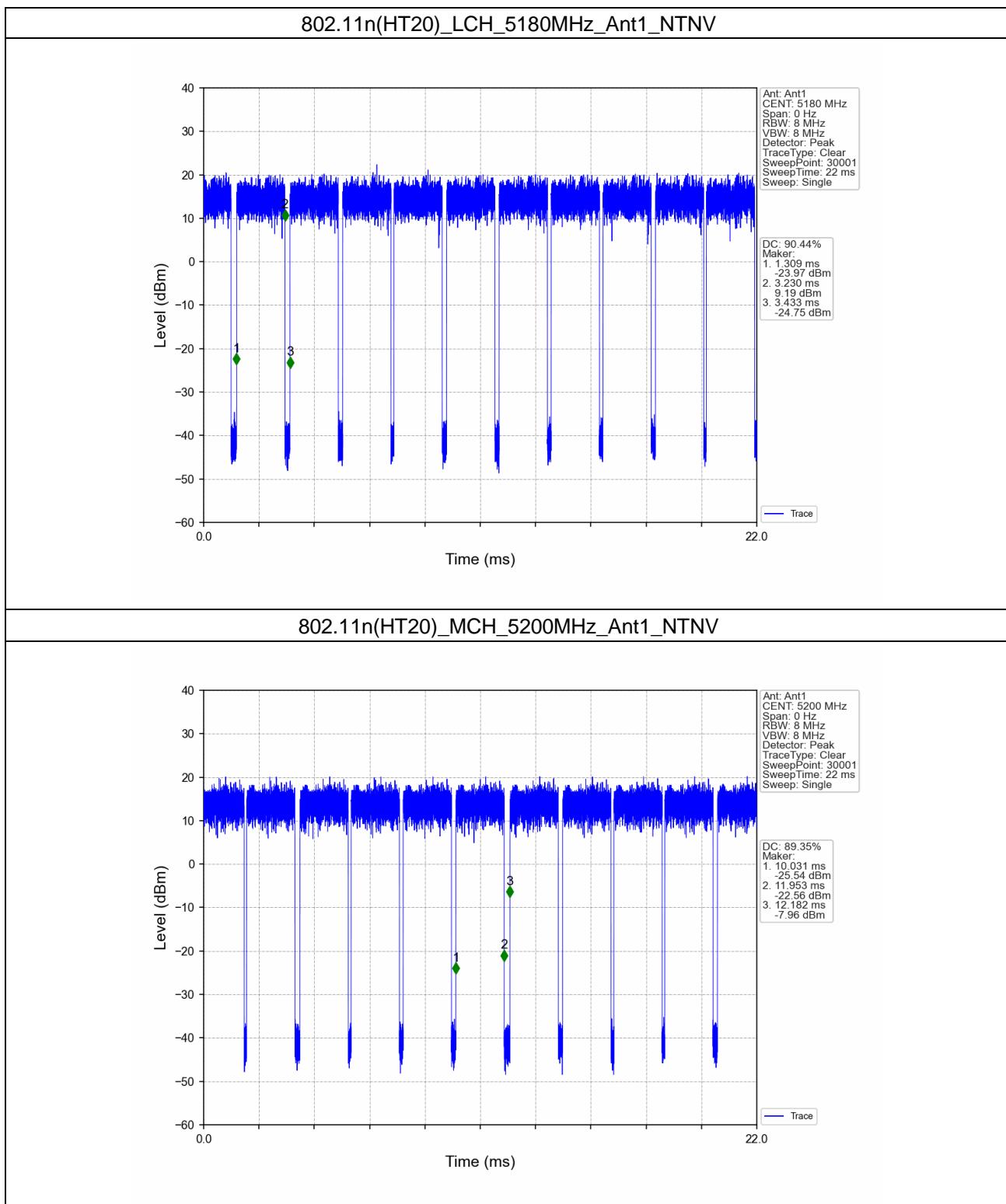
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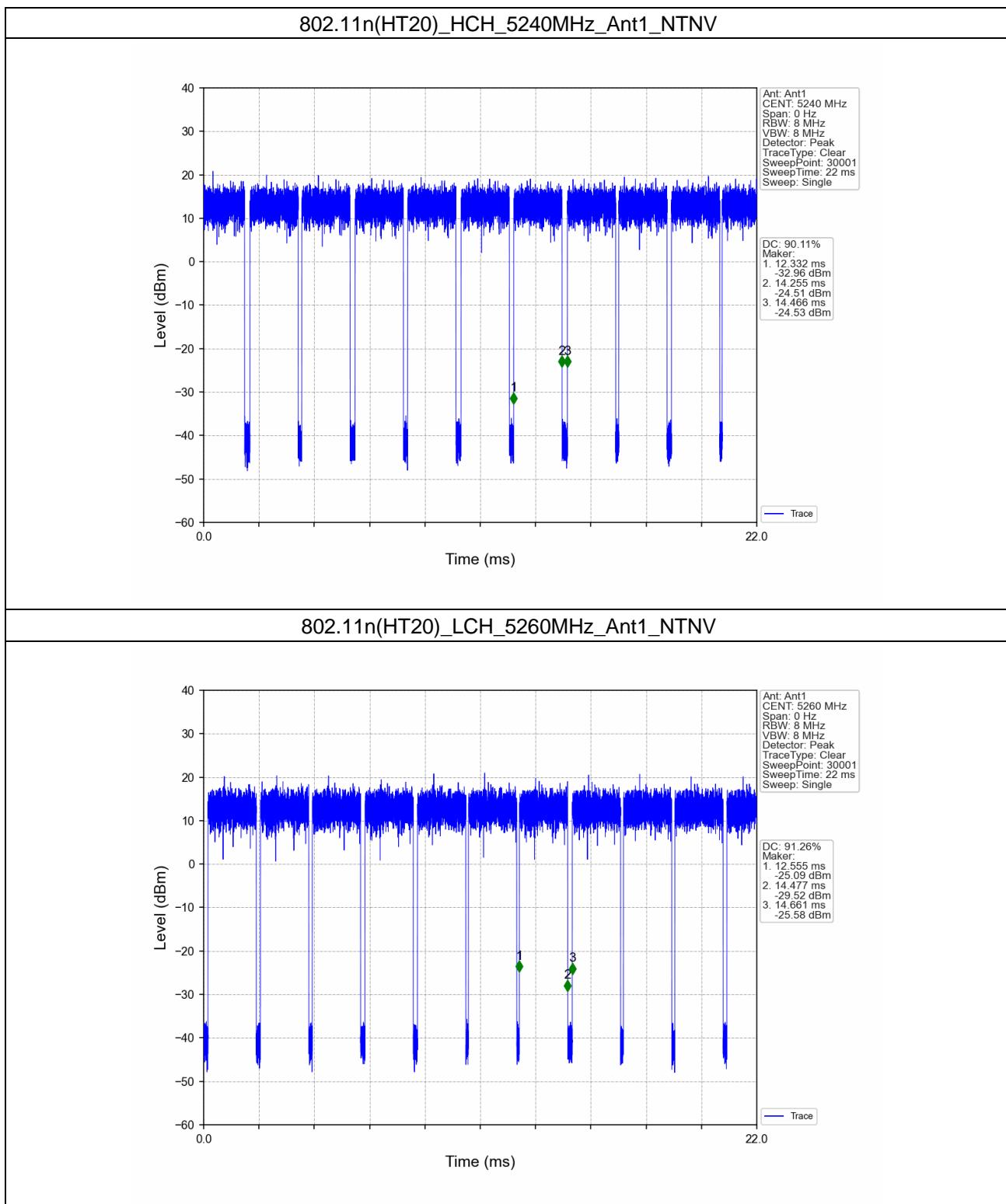
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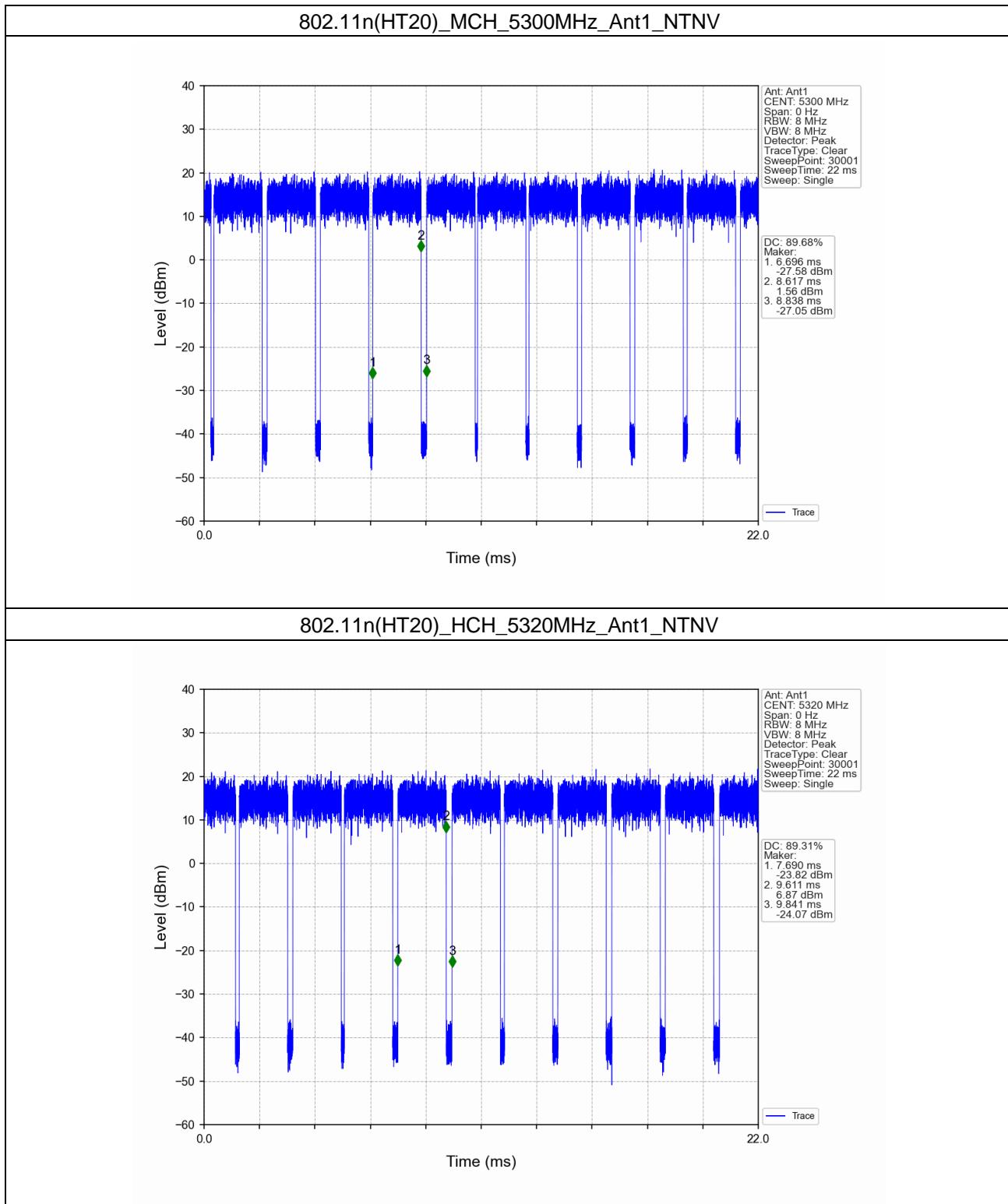
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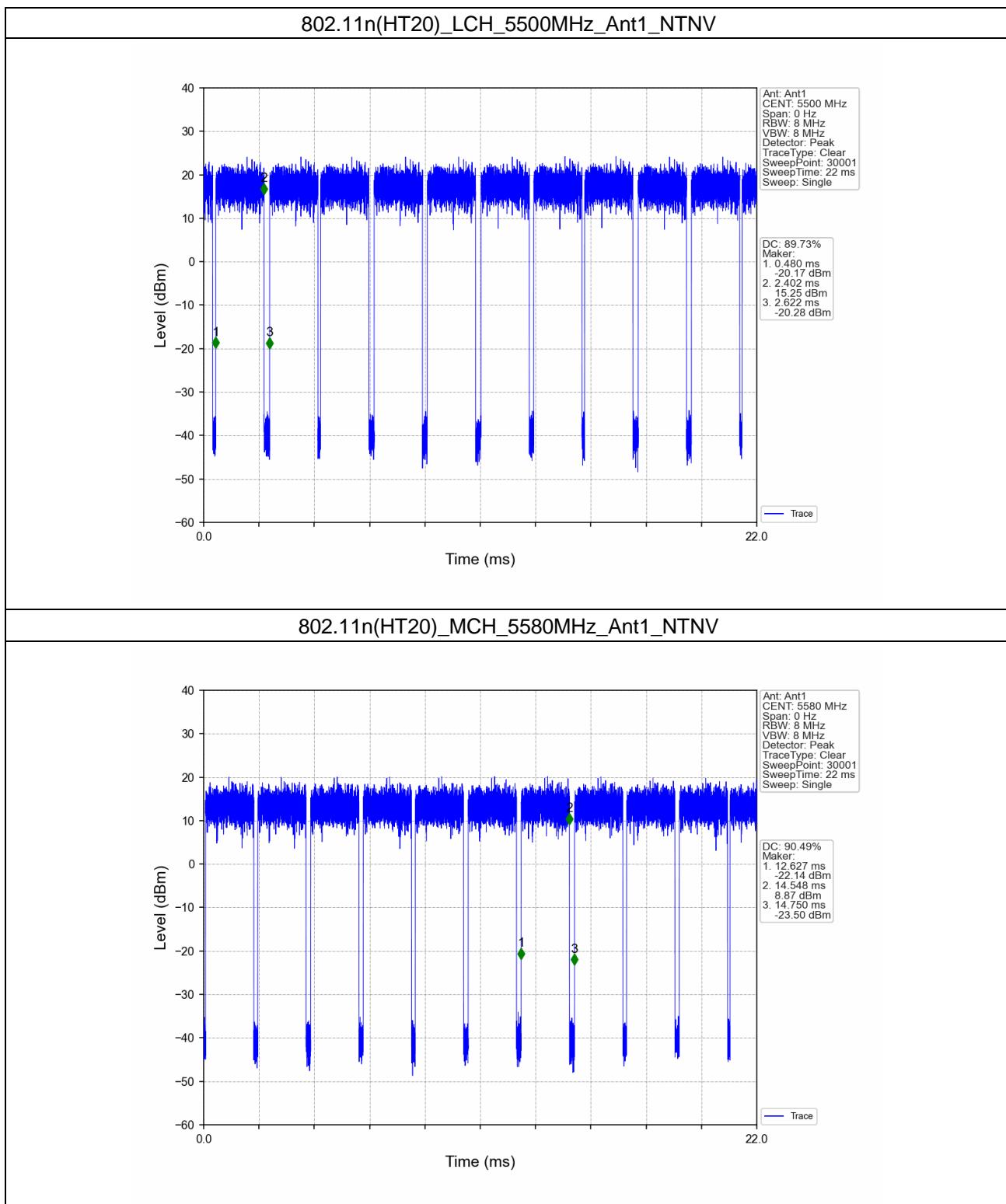
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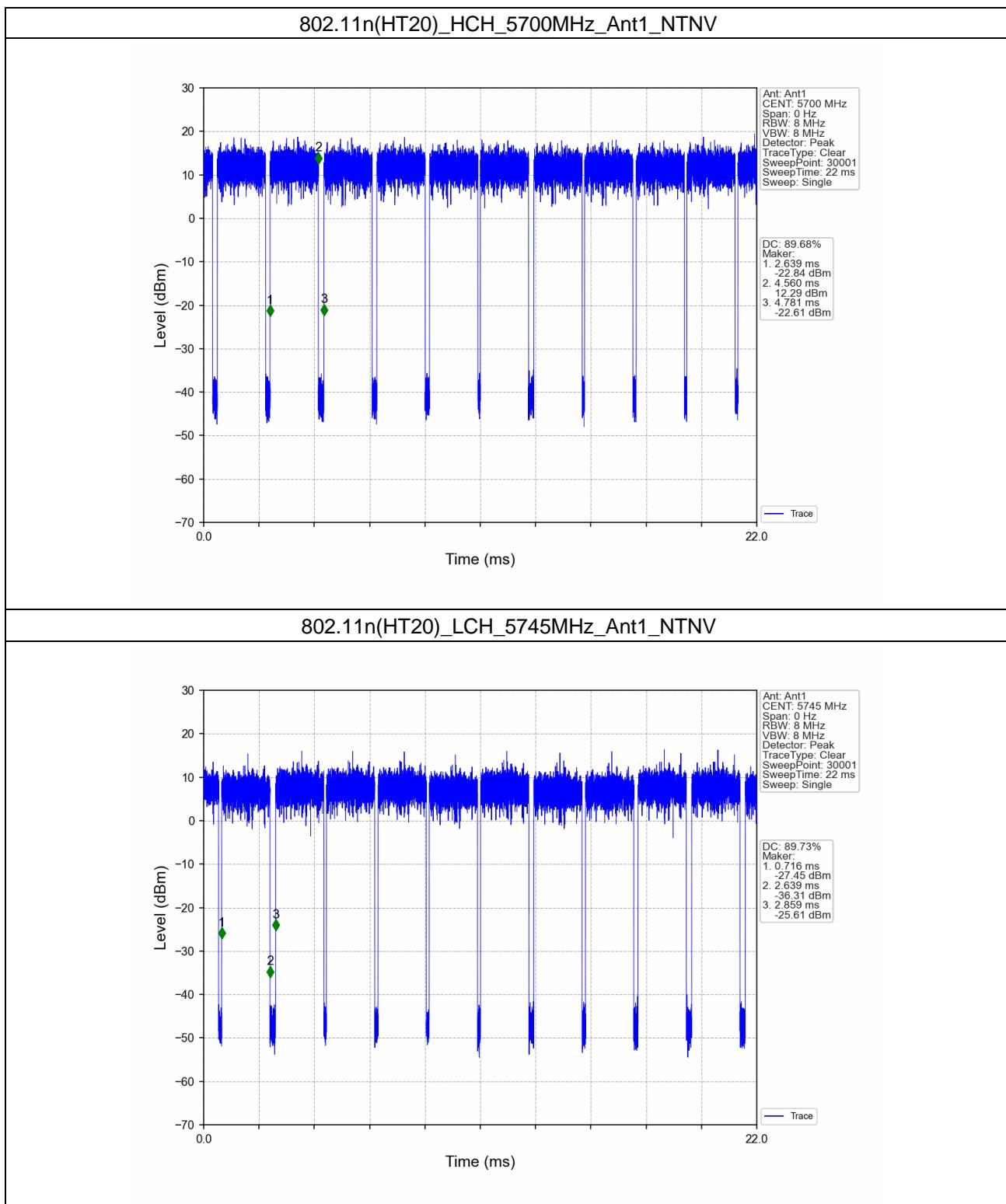
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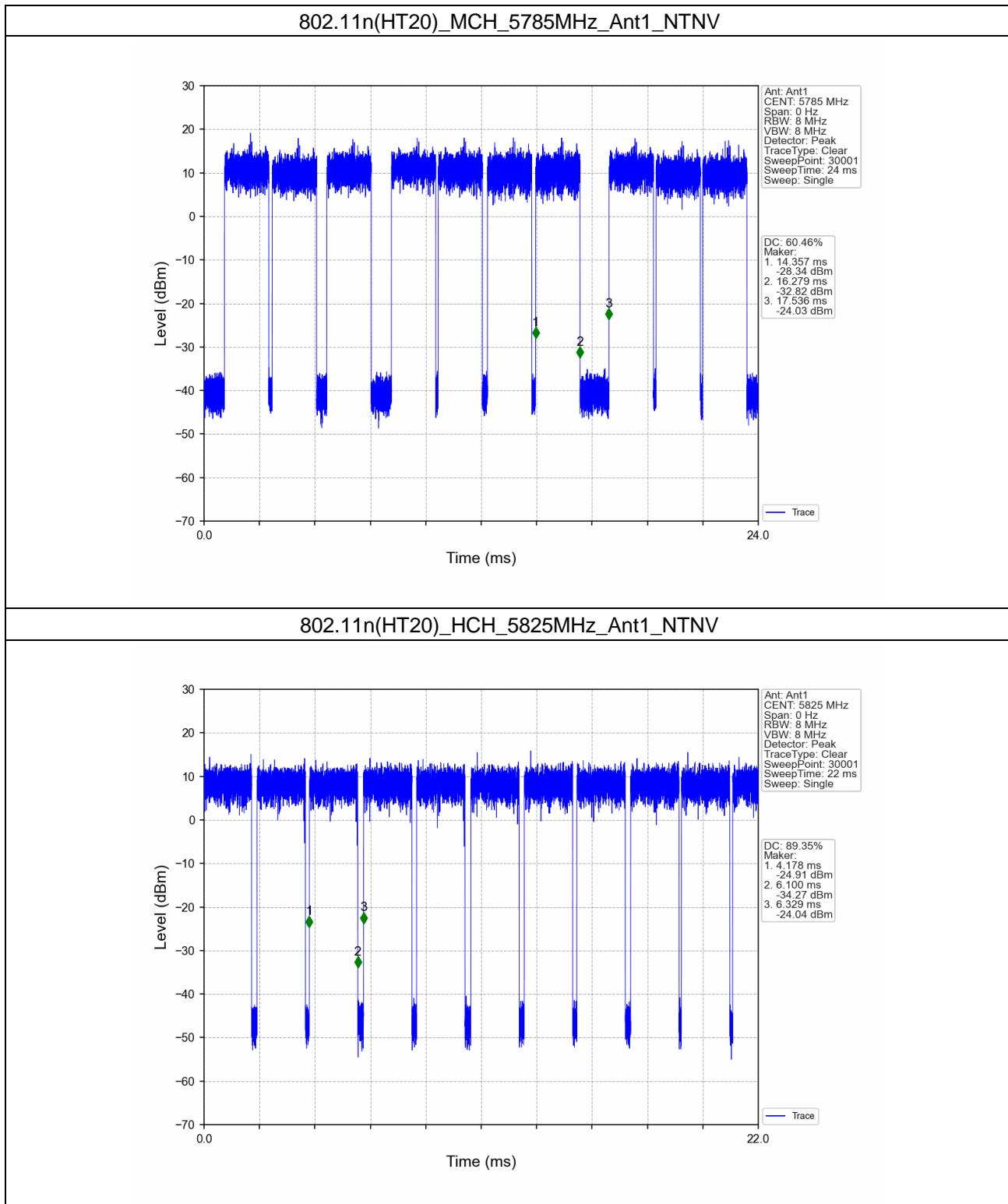
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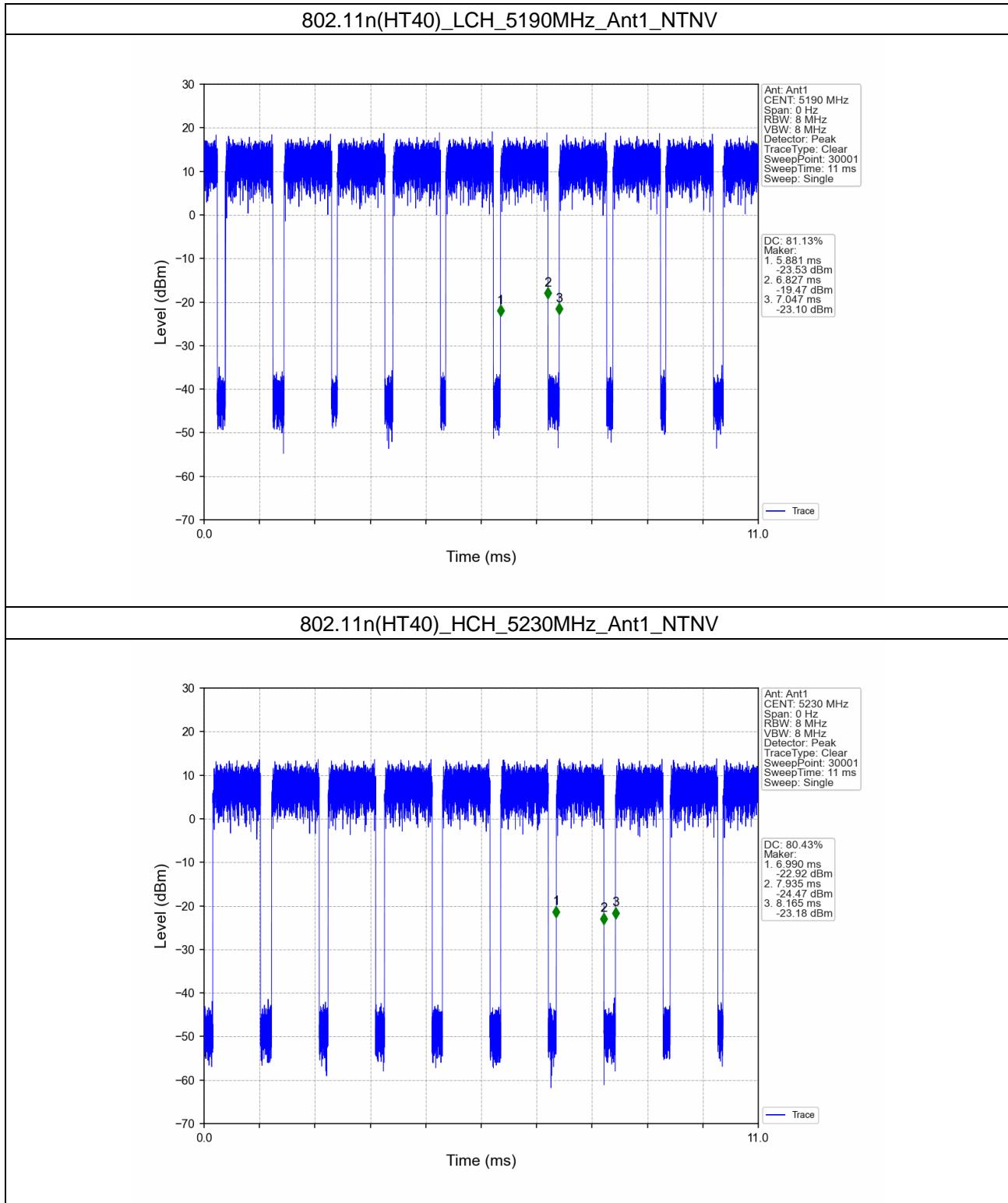


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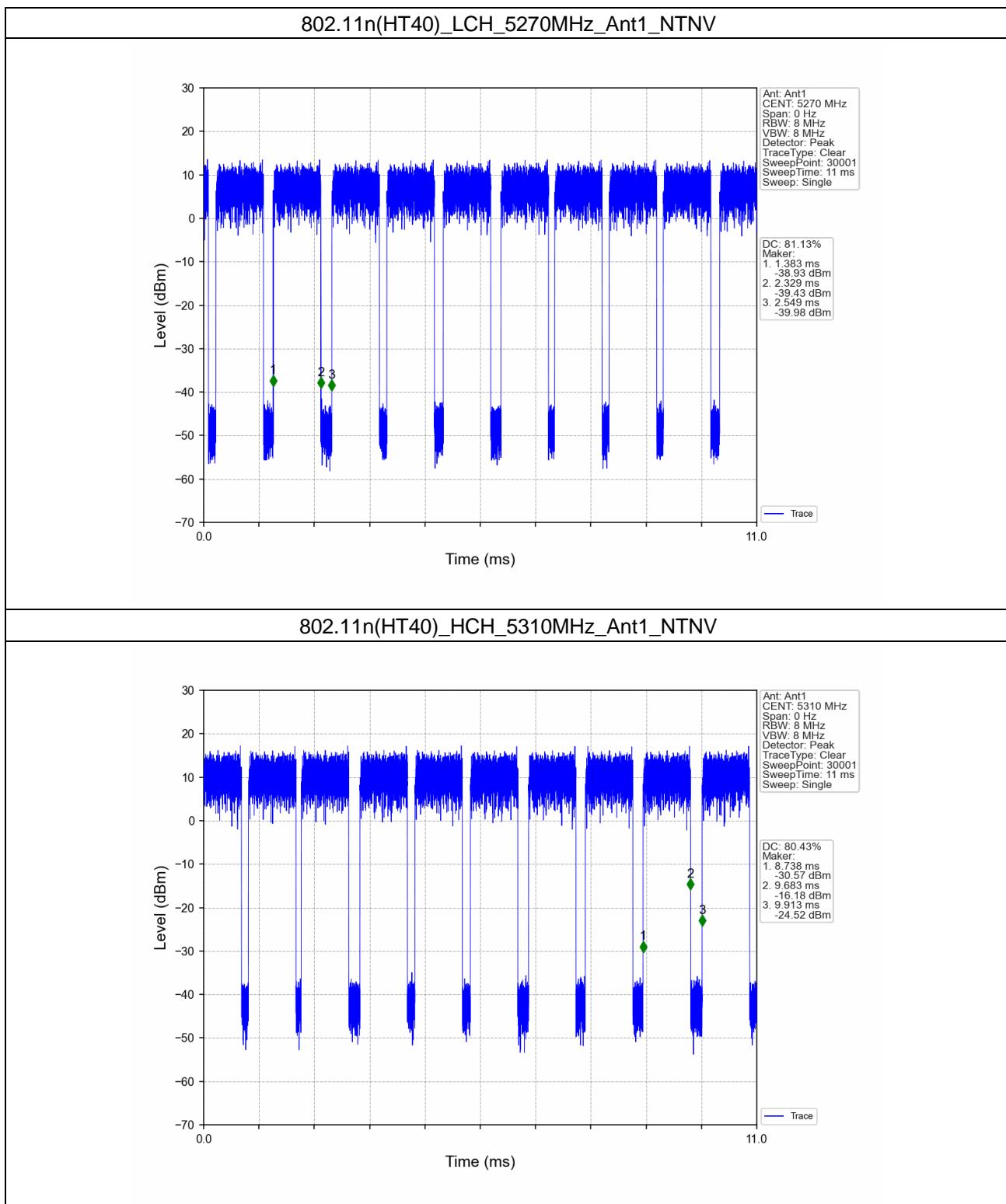
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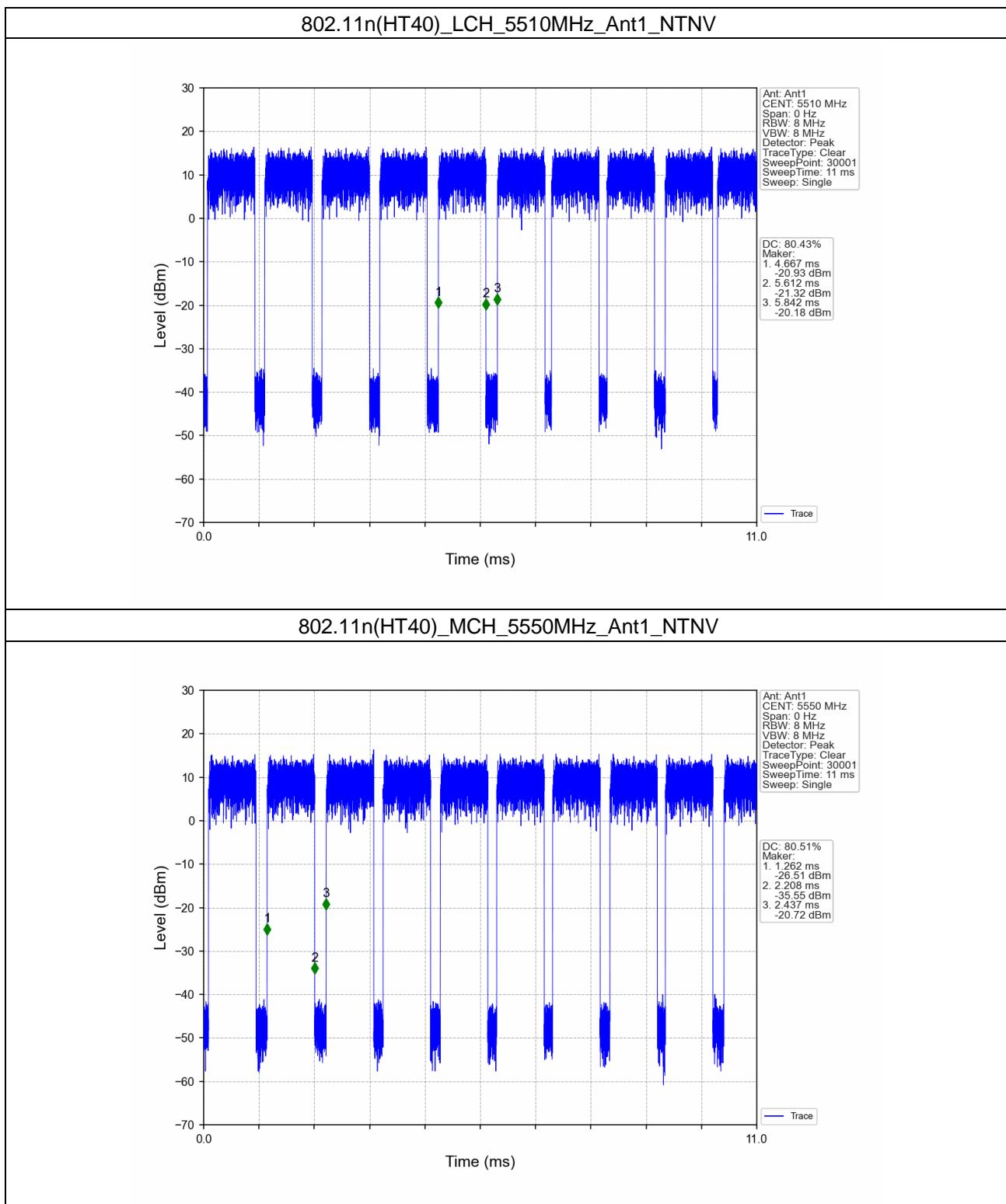
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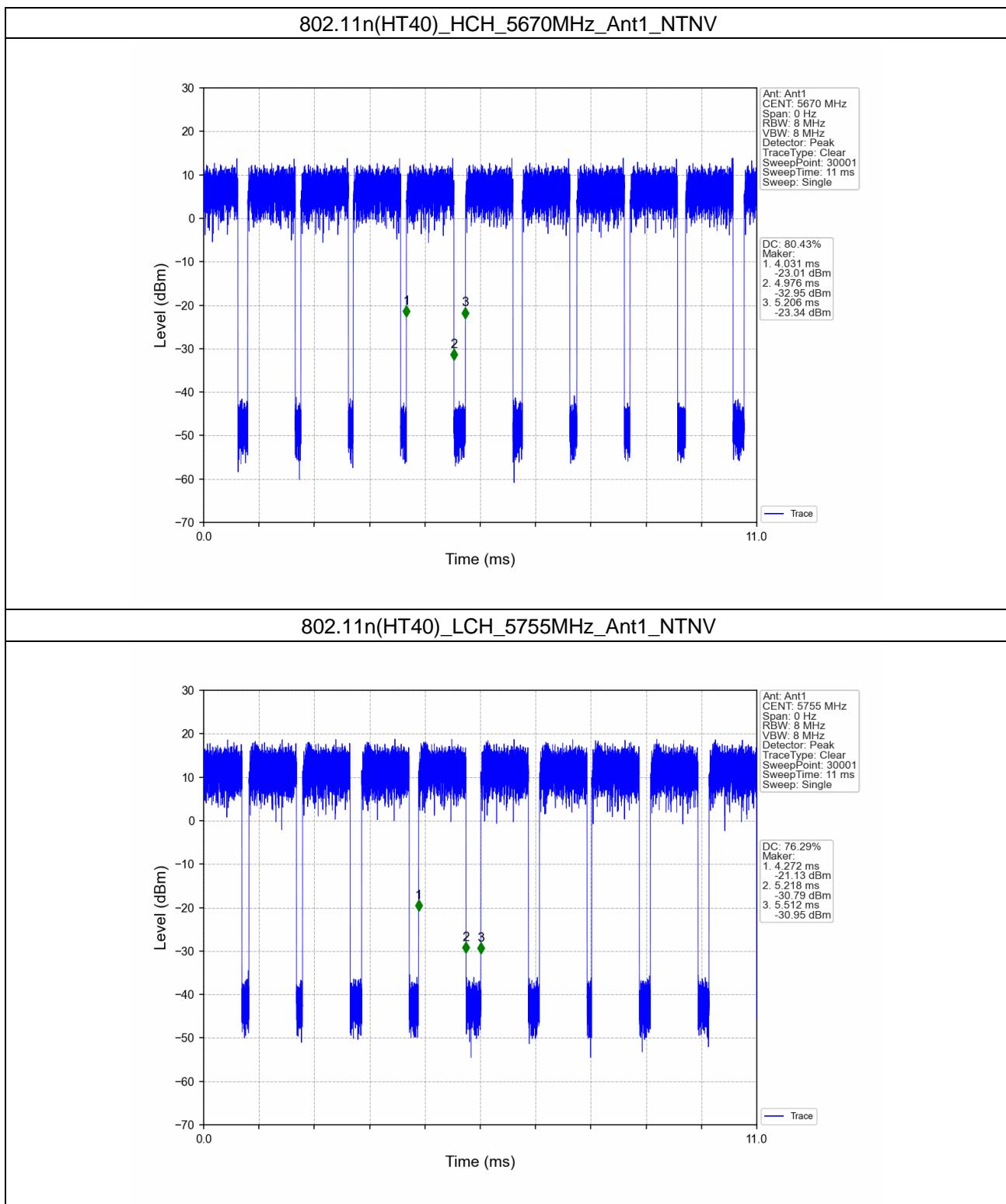
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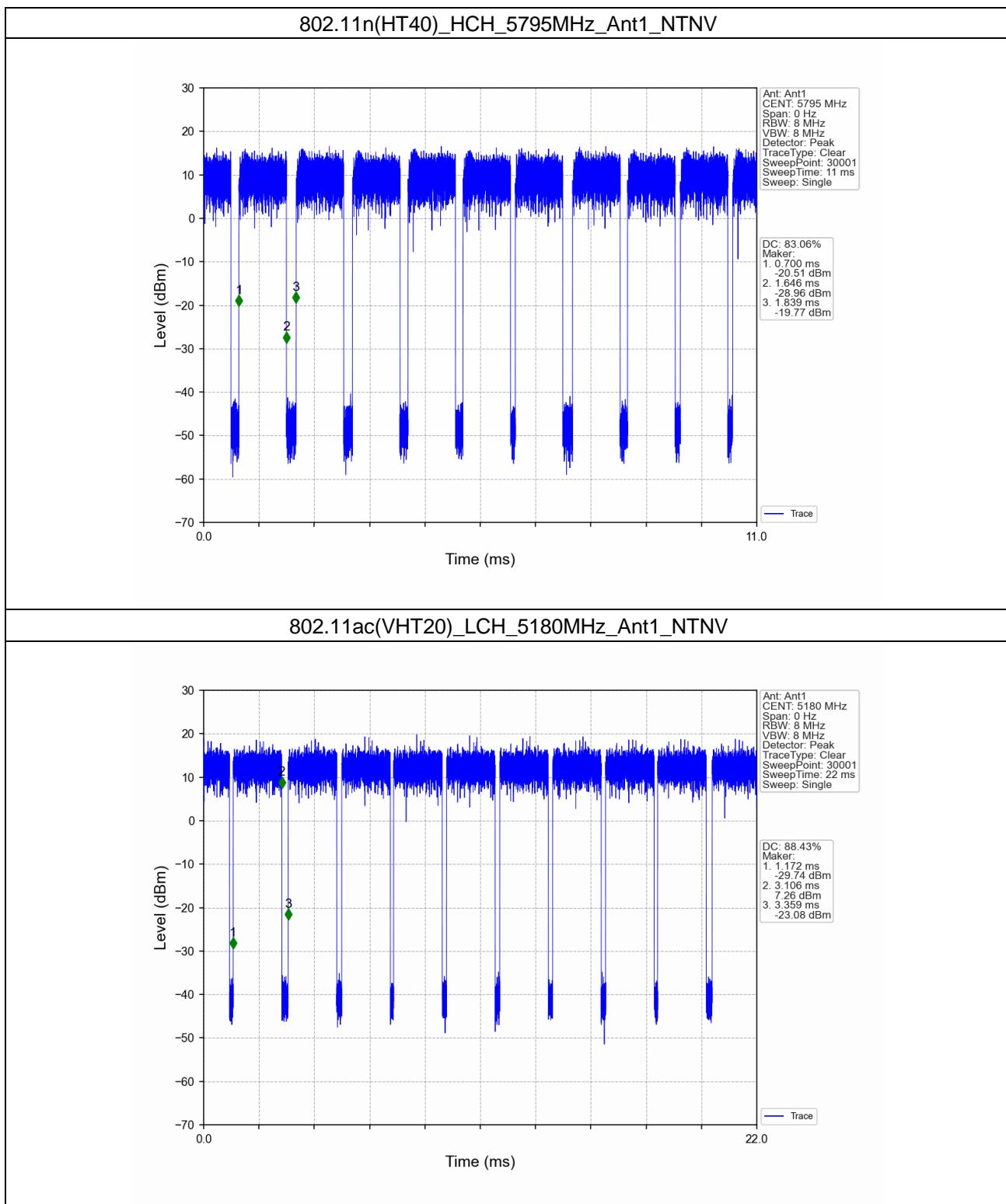
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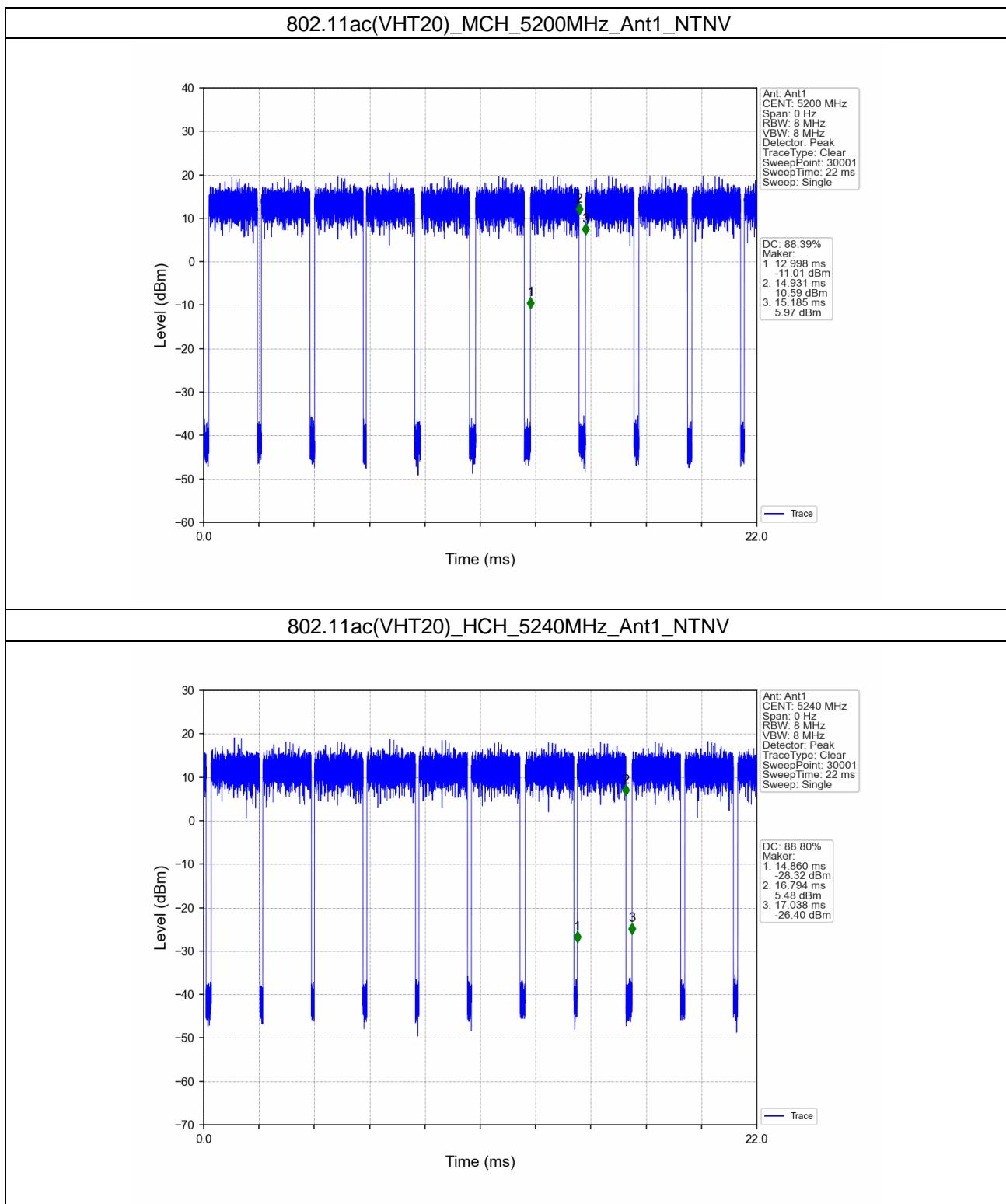
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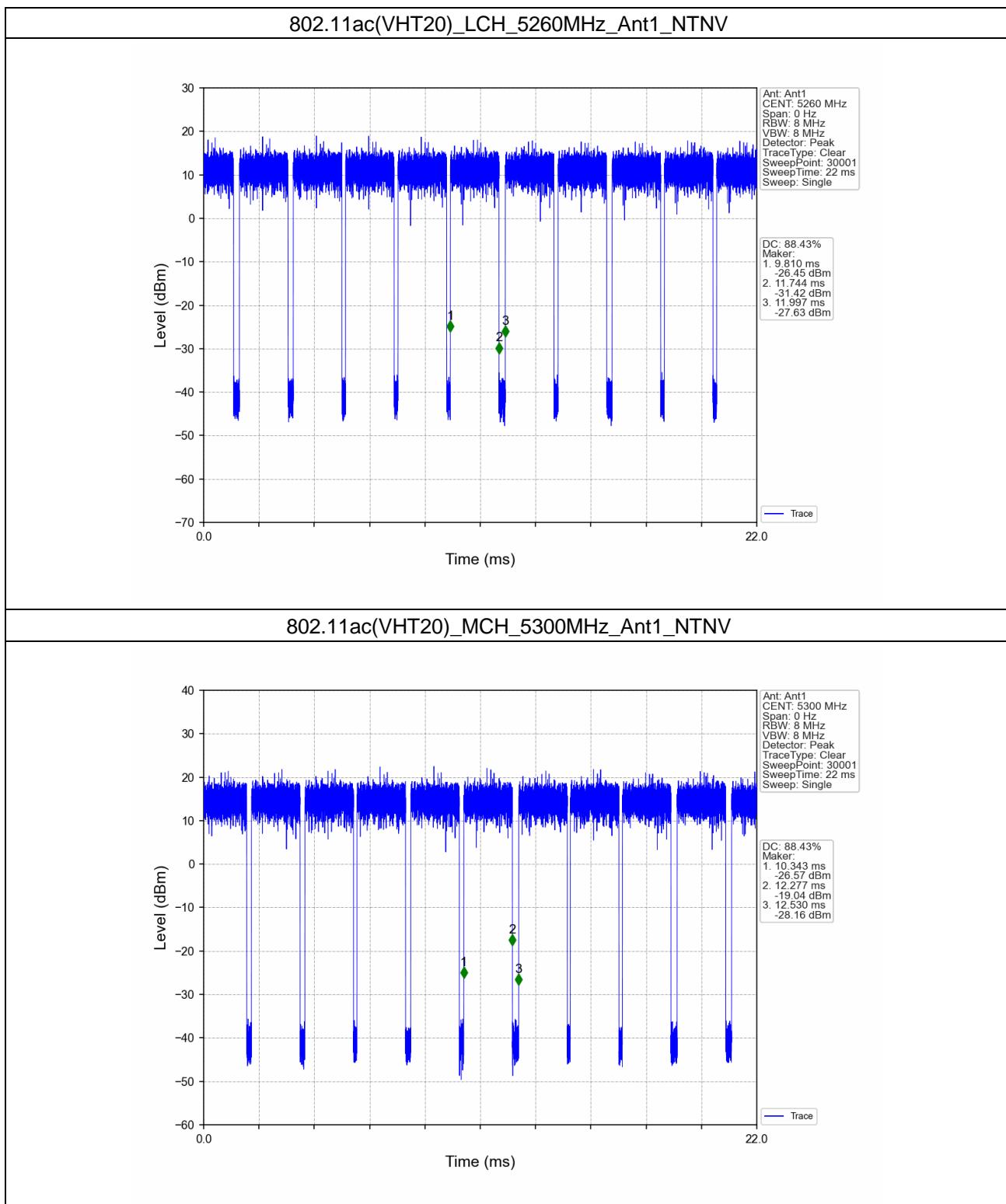
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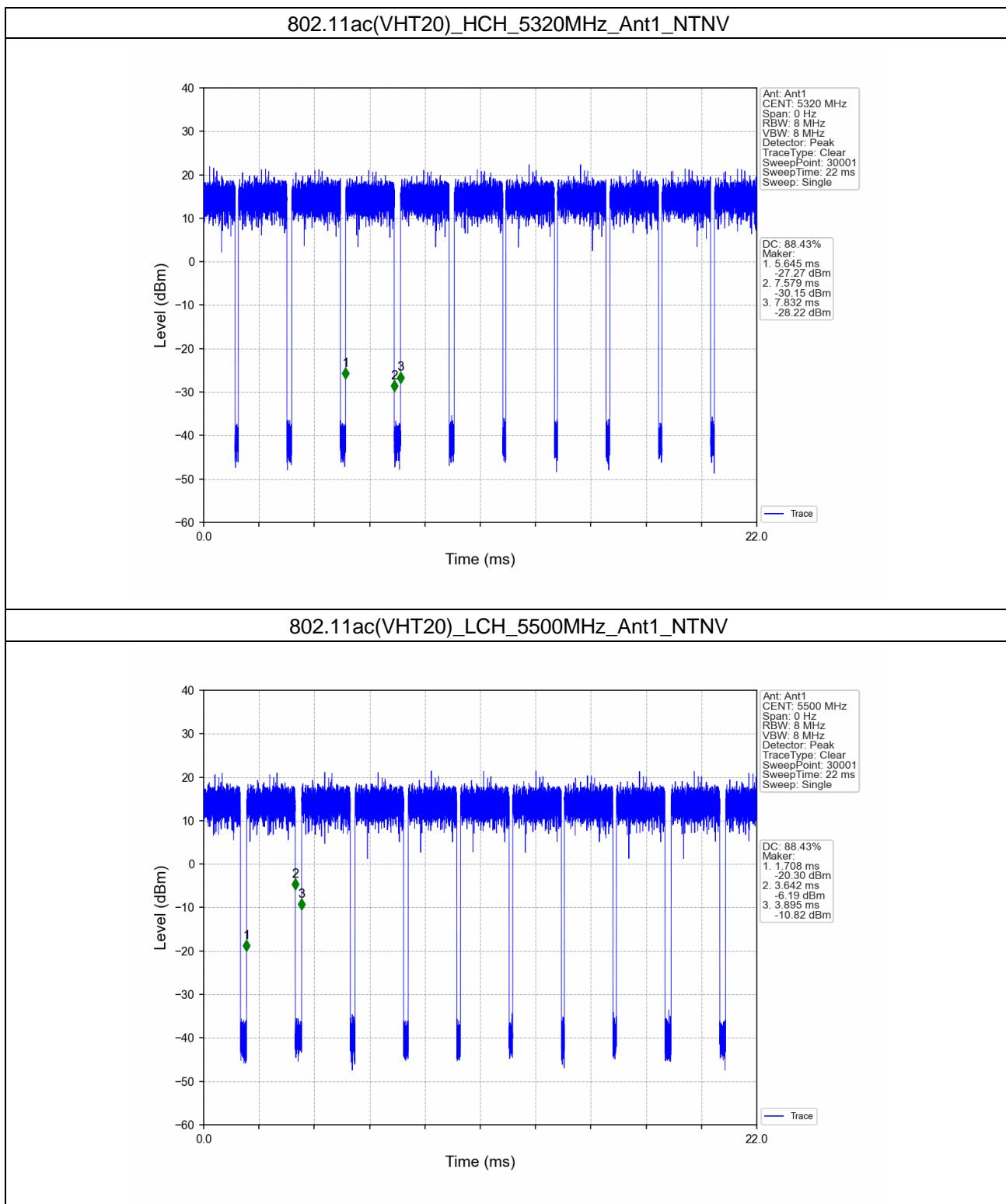
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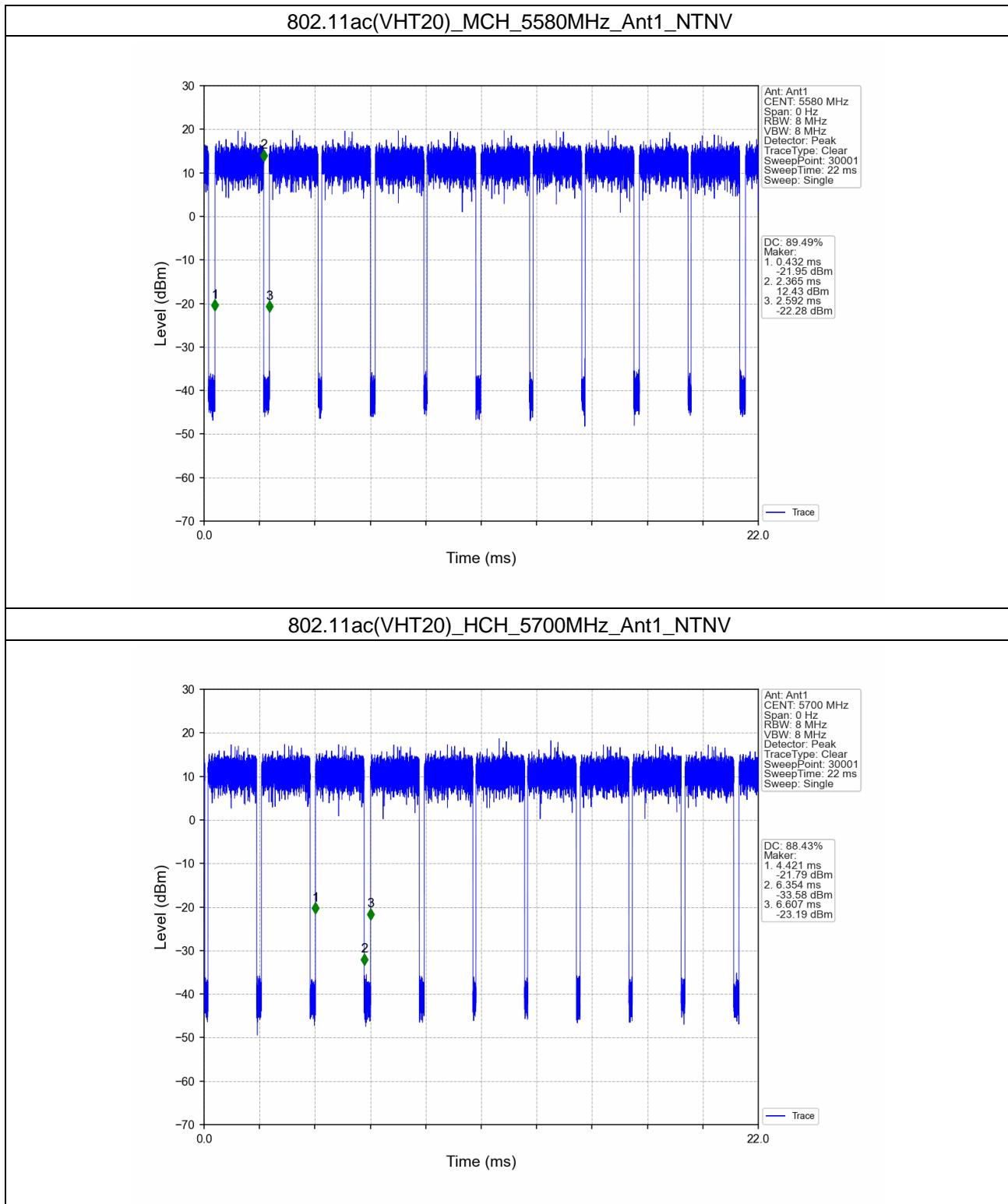
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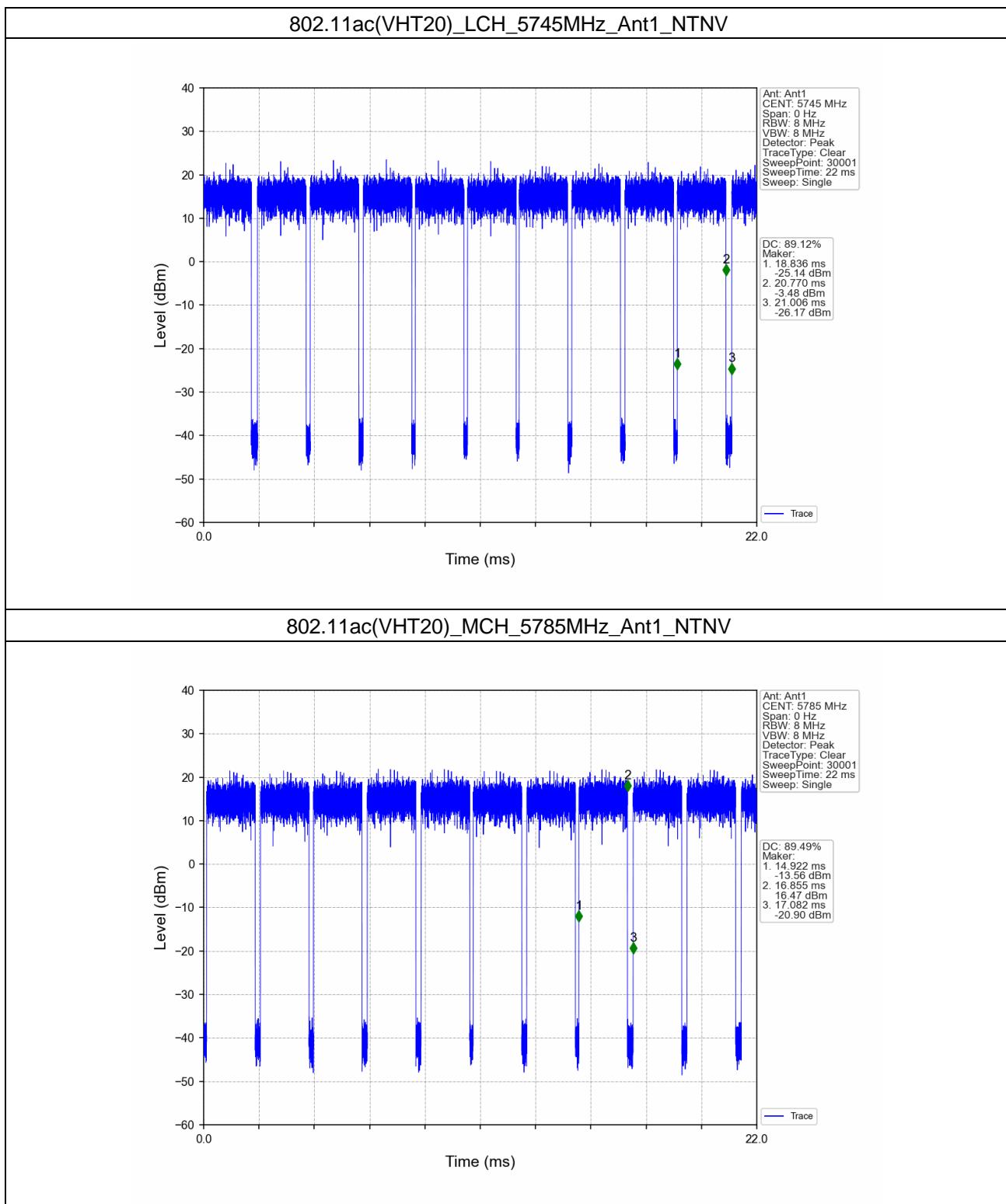
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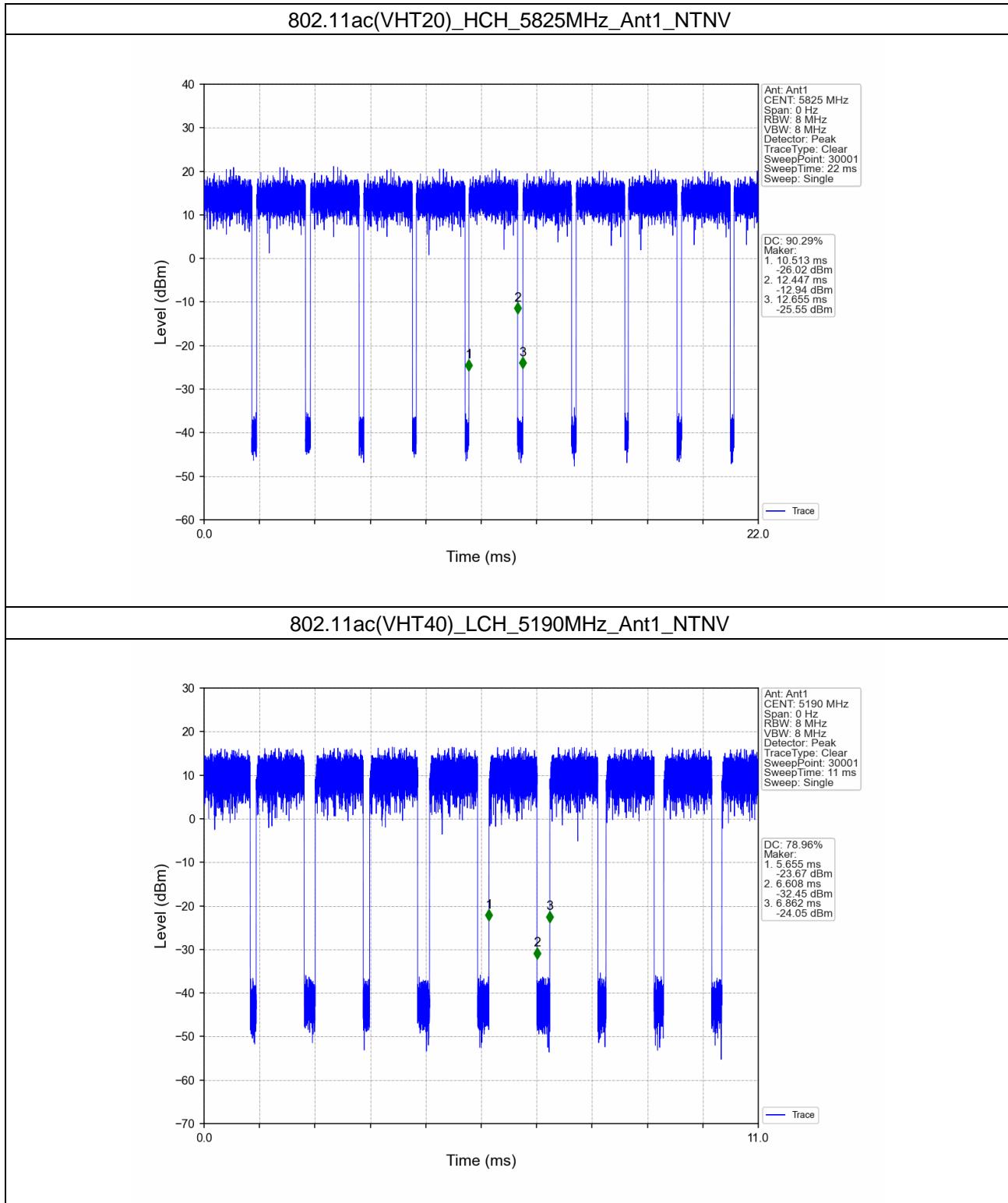
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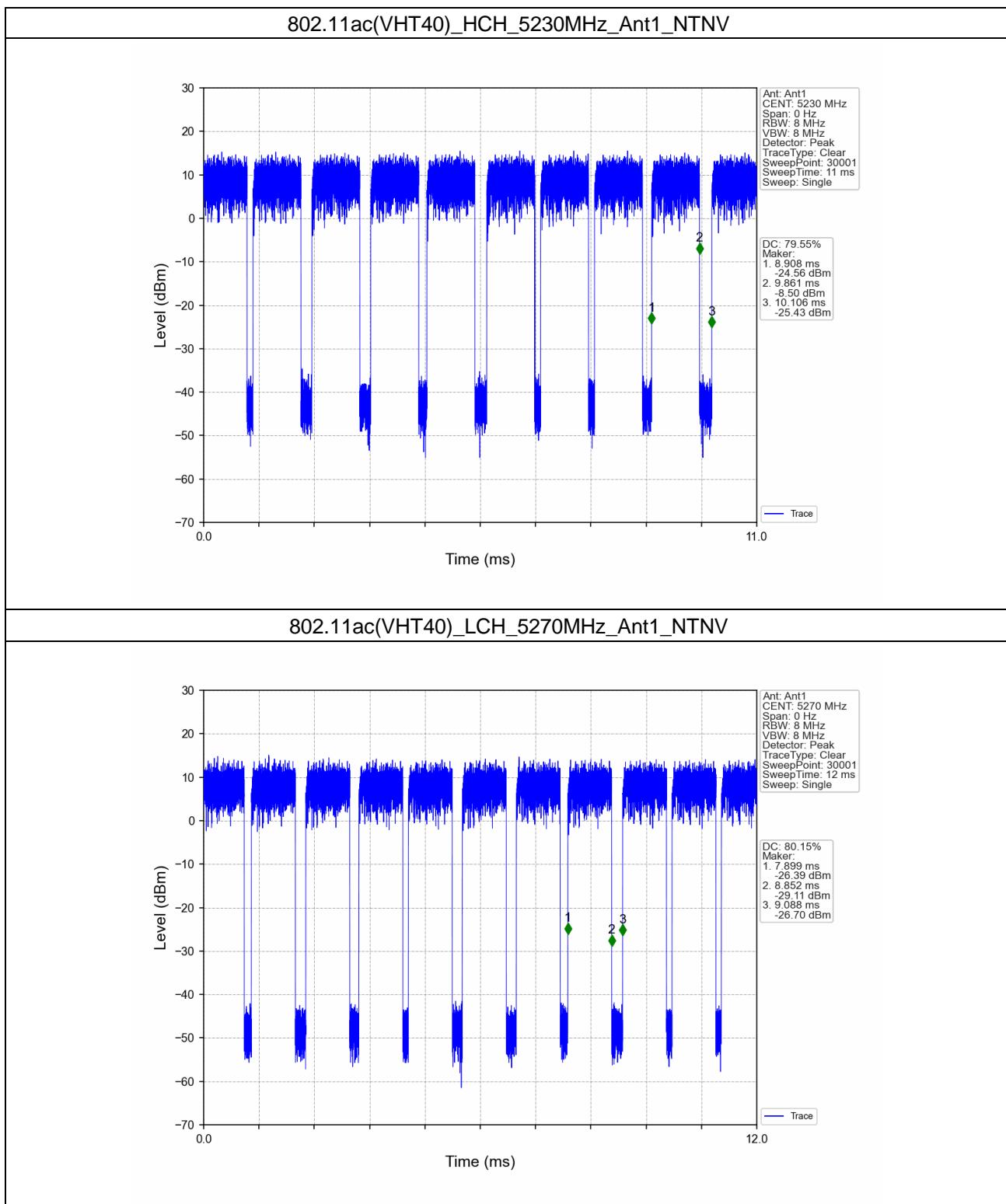
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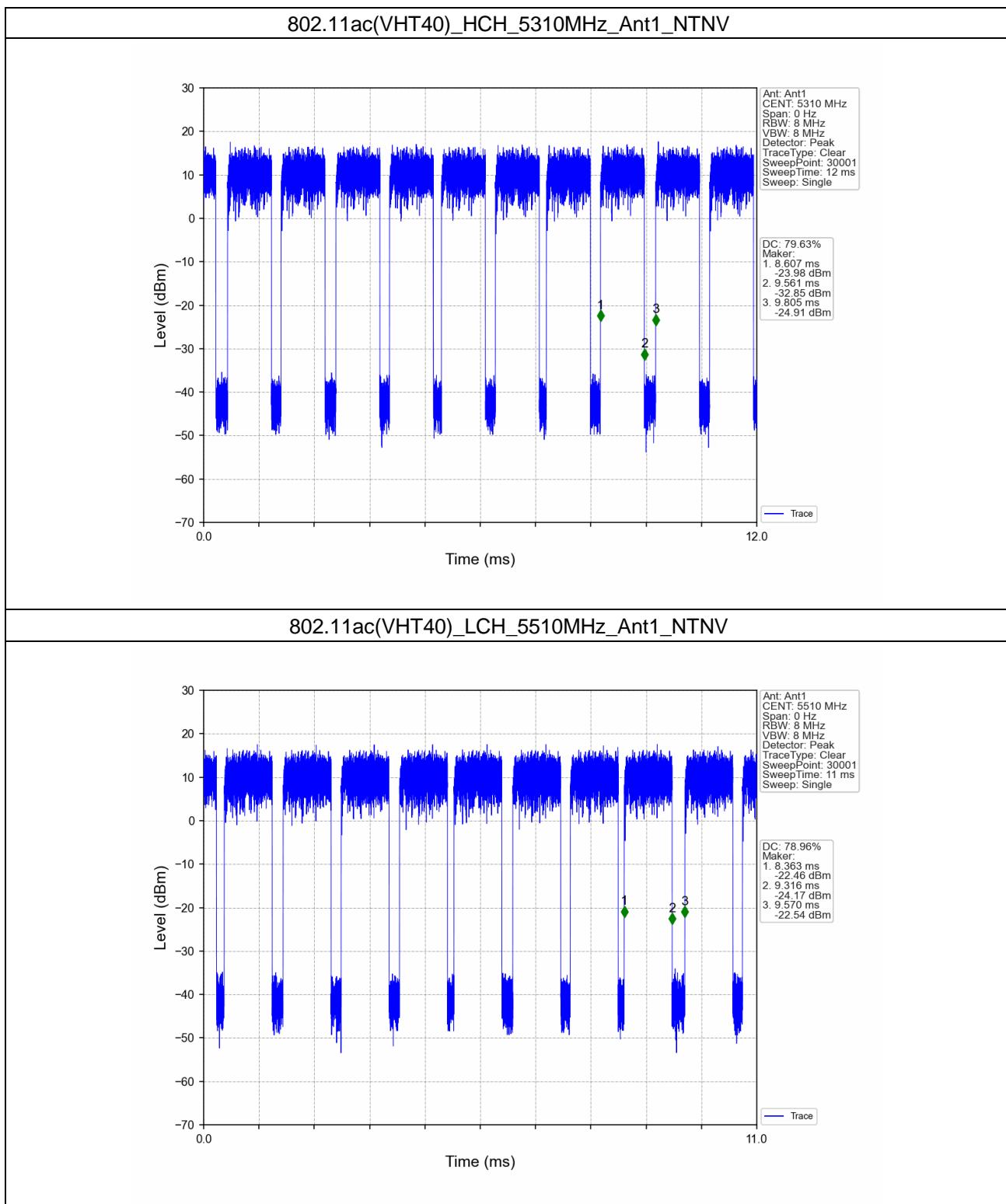


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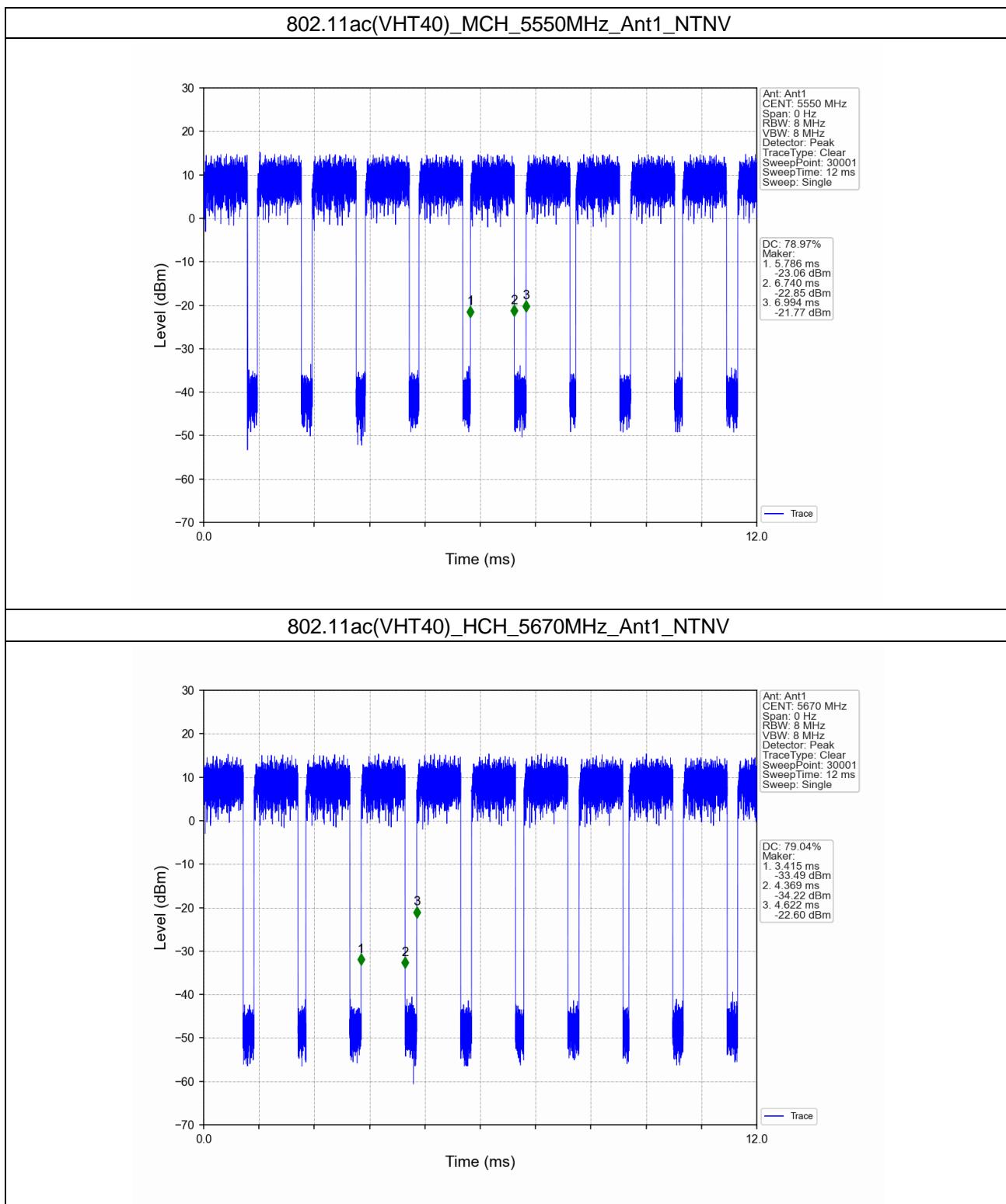
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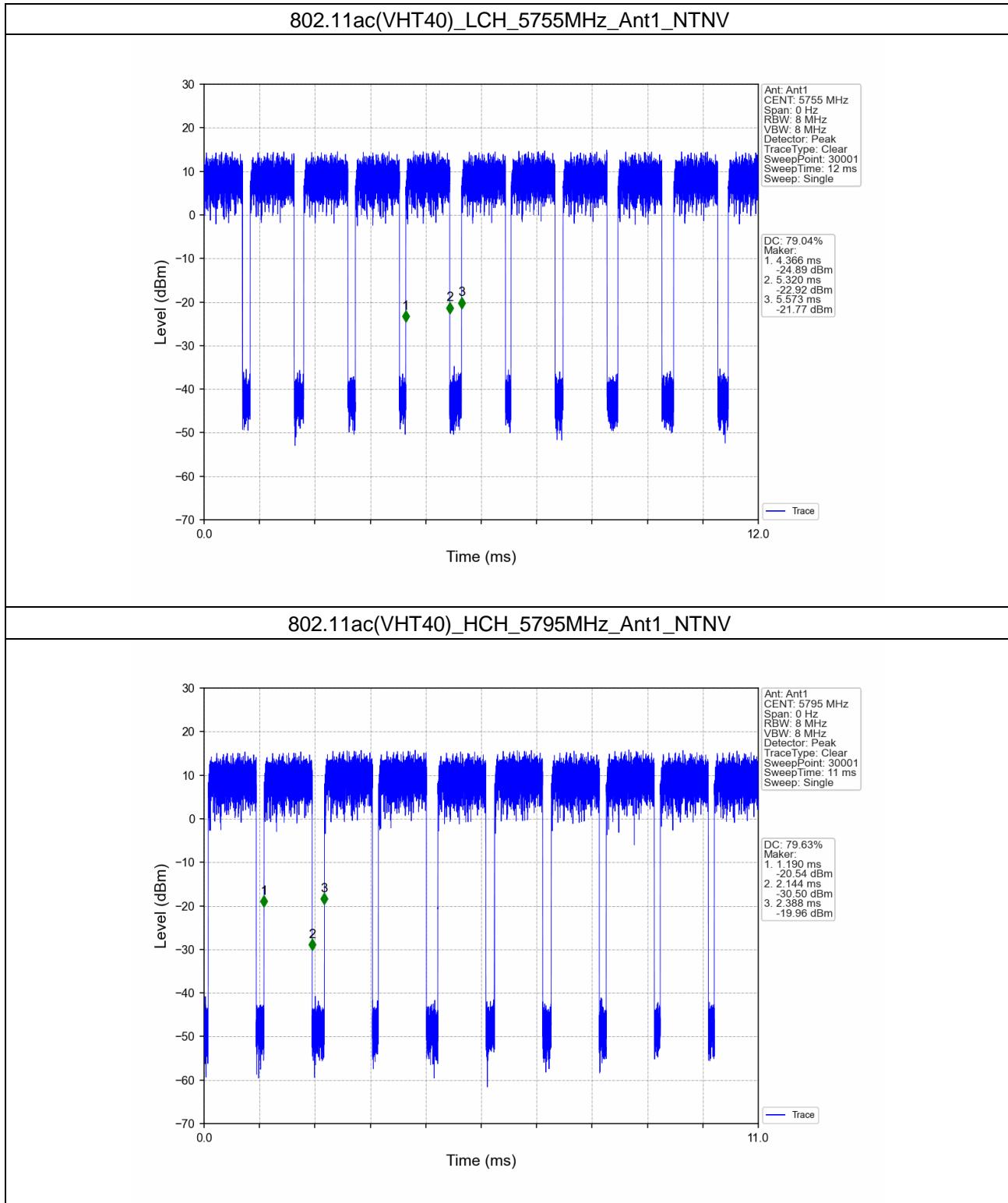
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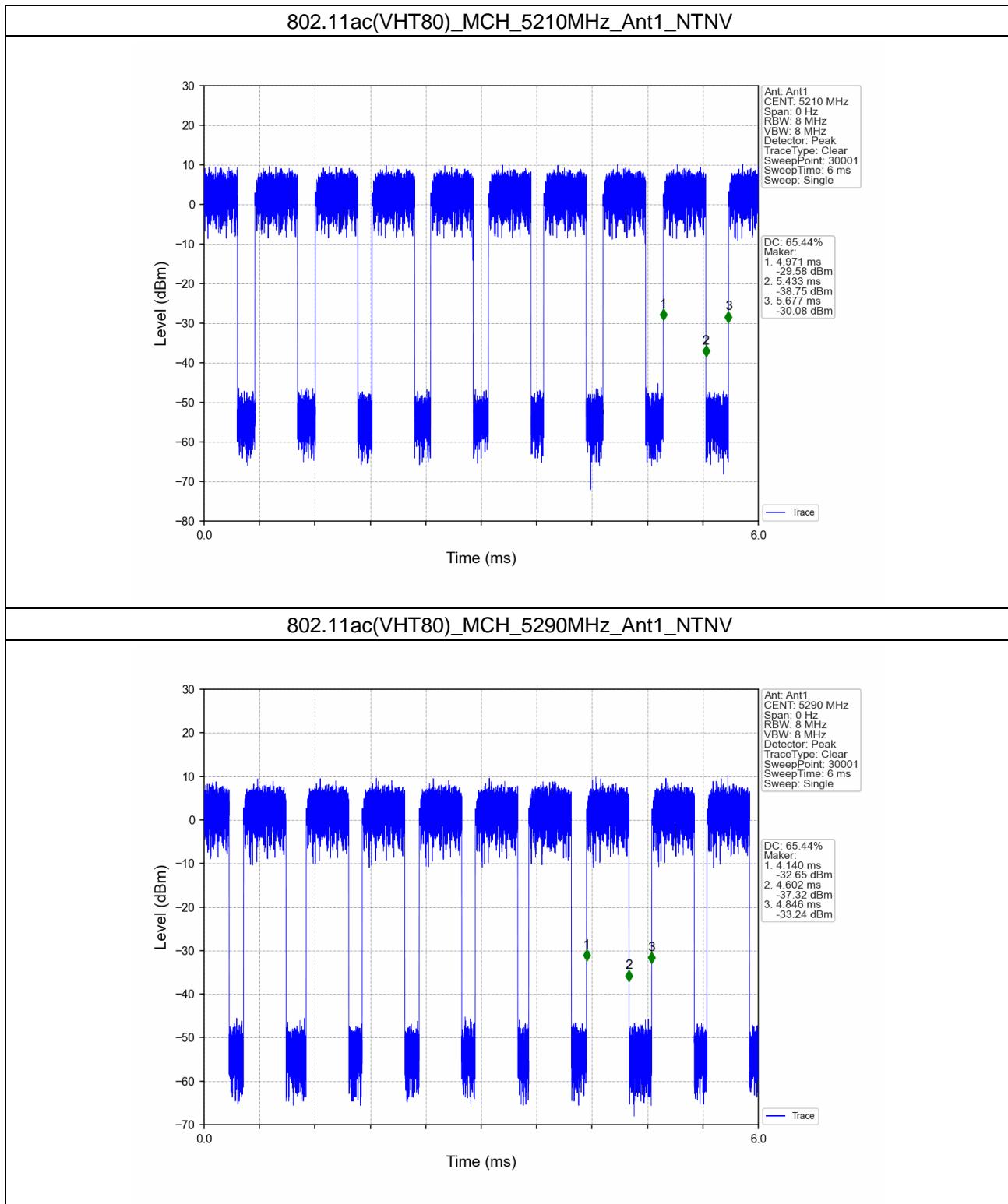
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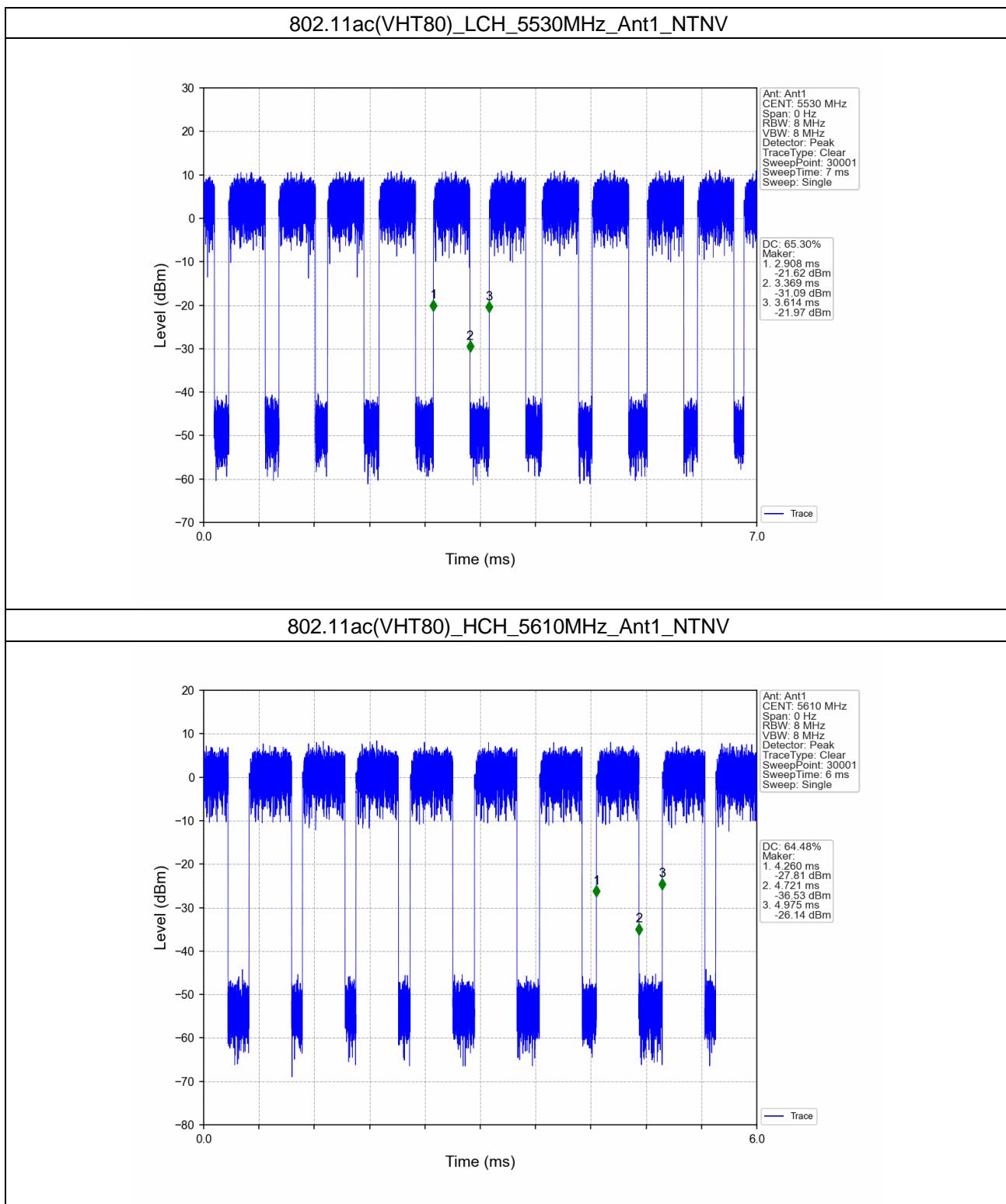
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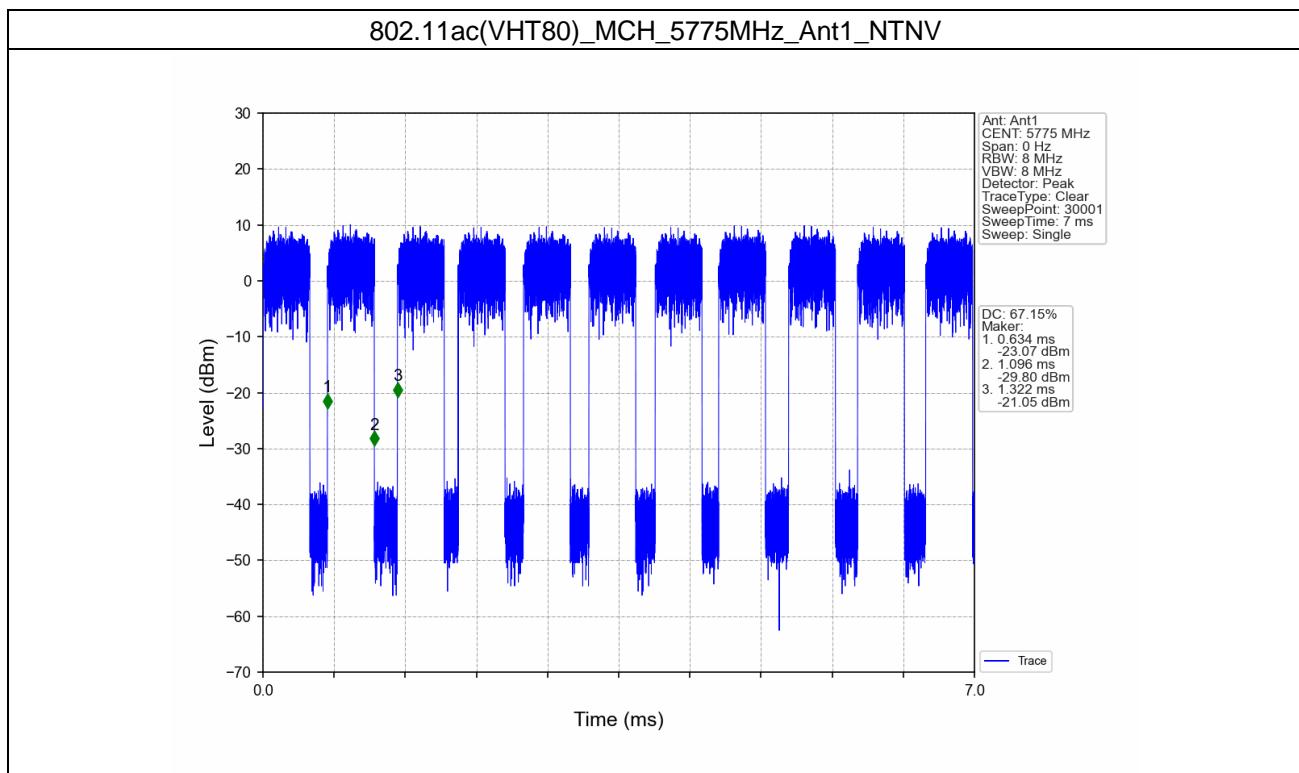
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2. Bandwidth

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	16.605	Pass
		5200	1	16.692	Pass
		5240	1	16.737	Pass
		5260	1	16.744	Pass
		5300	1	16.830	Pass
		5320	1	17.219	Pass
		5500	1	17.379	Pass
		5580	1	16.919	Pass
		5700	1	16.735	Pass
		5745	1	16.697	Pass
		5785	1	16.648	Pass
		5825	1	16.723	Pass
802.11n (HT20)	MIMO	5180	1	17.804	Pass
		5200	1	17.799	Pass
		5240	1	17.804	Pass
		5260	1	17.797	Pass
		5300	1	17.834	Pass
		5320	1	17.899	Pass
		5500	1	17.860	Pass
		5580	1	17.793	Pass
		5700	1	17.769	Pass
		5745	1	17.776	Pass
		5785	1	17.774	Pass
		5825	1	17.773	Pass
802.11n (HT40)	MIMO	5190	1	36.449	Pass
		5230	1	36.430	Pass
		5270	1	36.476	Pass
		5310	1	36.641	Pass
		5510	1	36.376	Pass
		5550	1	36.371	Pass

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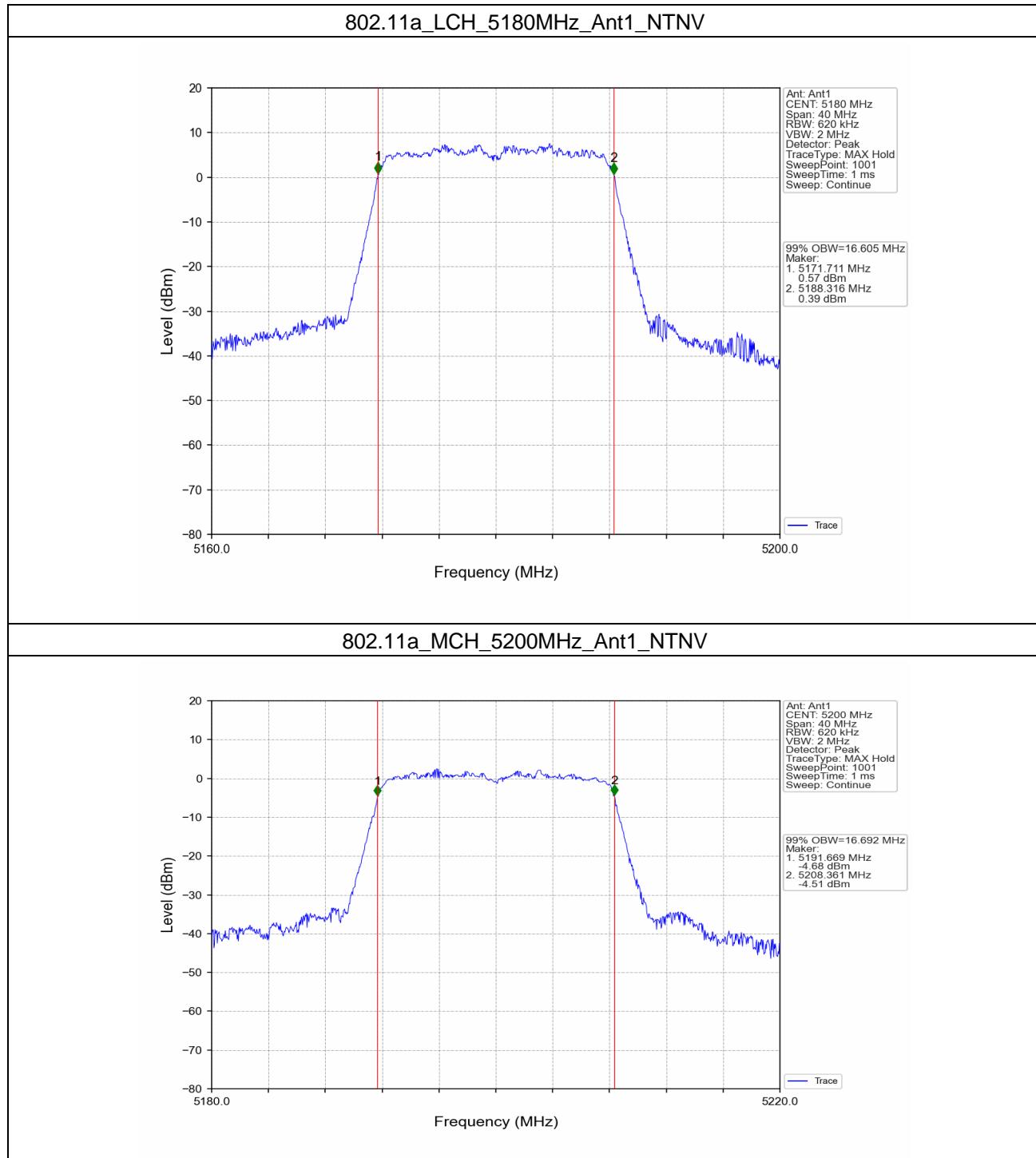
		5670	1	36.443	Pass
		5755	1	36.622	Pass
		5795	1	36.296	Pass
802.11ac (VHT20)	MIMO	5180	1	17.762	Pass
		5200	1	17.767	Pass
		5240	1	17.776	Pass
		5260	1	17.779	Pass
		5300	1	18.019	Pass
		5320	1	18.006	Pass
		5500	1	17.748	Pass
		5580	1	17.737	Pass
		5700	1	17.751	Pass
		5745	1	17.843	Pass
		5785	1	17.806	Pass
		5825	1	17.760	Pass
802.11ac (VHT40)	MIMO	5190	1	36.486	Pass
		5230	1	36.494	Pass
		5270	1	36.556	Pass
		5310	1	36.514	Pass
		5510	1	36.375	Pass
		5550	1	36.435	Pass
		5670	1	36.514	Pass
		5755	1	36.464	Pass
		5795	1	36.399	Pass
802.11ac (VHT80)	MIMO	5210	1	75.090	Pass
		5290	1	75.171	Pass
		5530	1	74.875	Pass
		5610	1	75.189	Pass
		5775	1	75.061	Pass

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2.1.2 Test Graph

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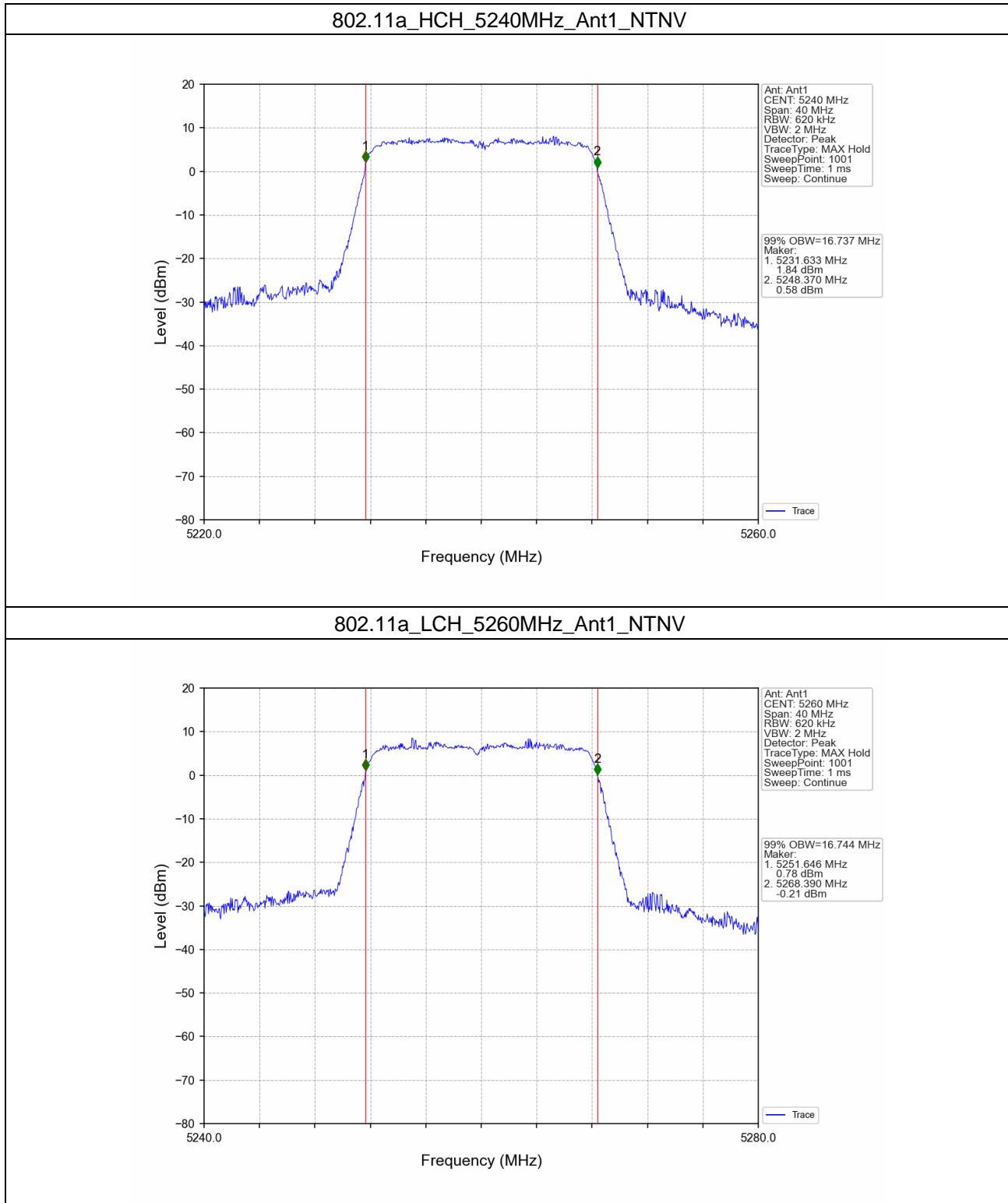
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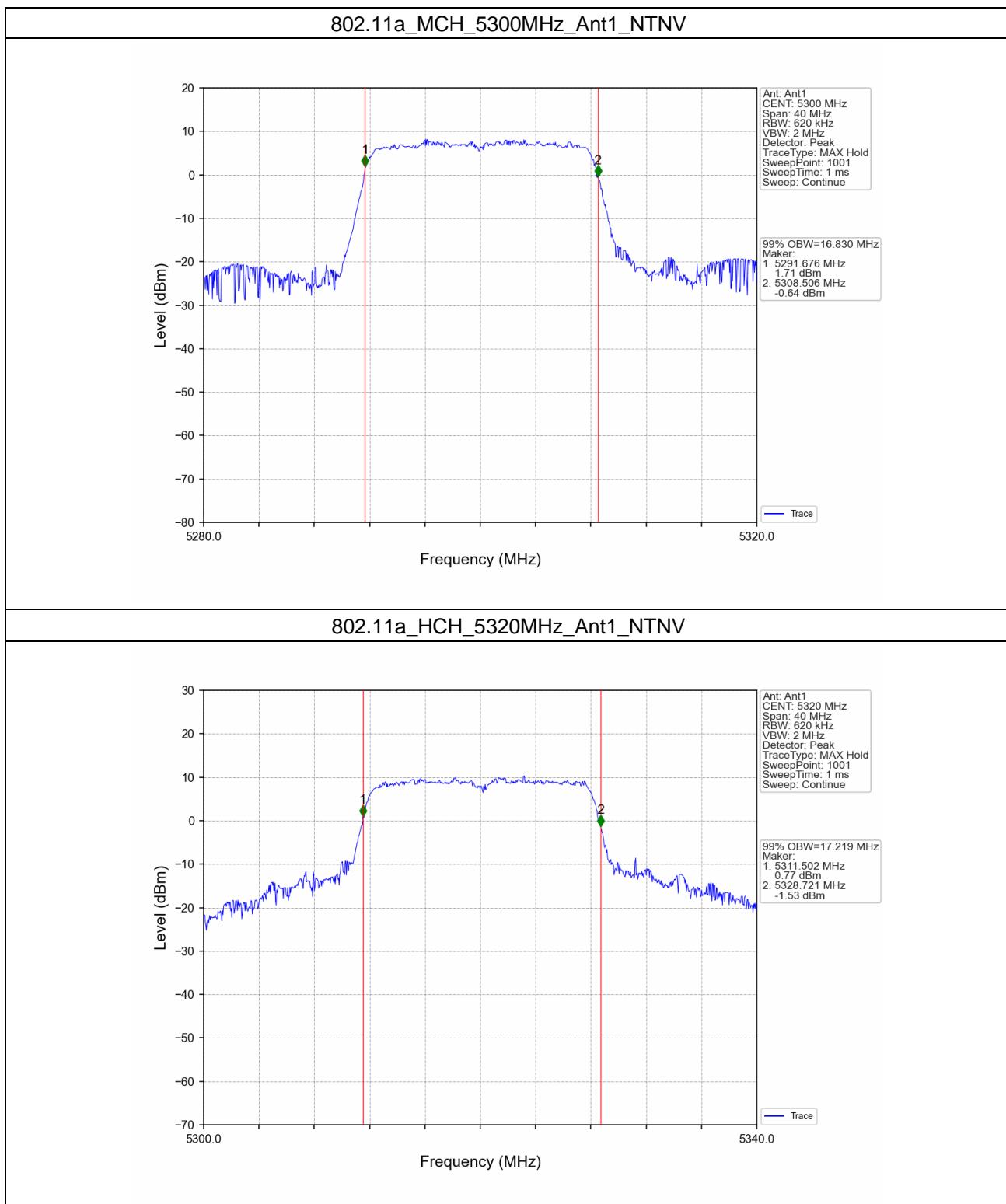


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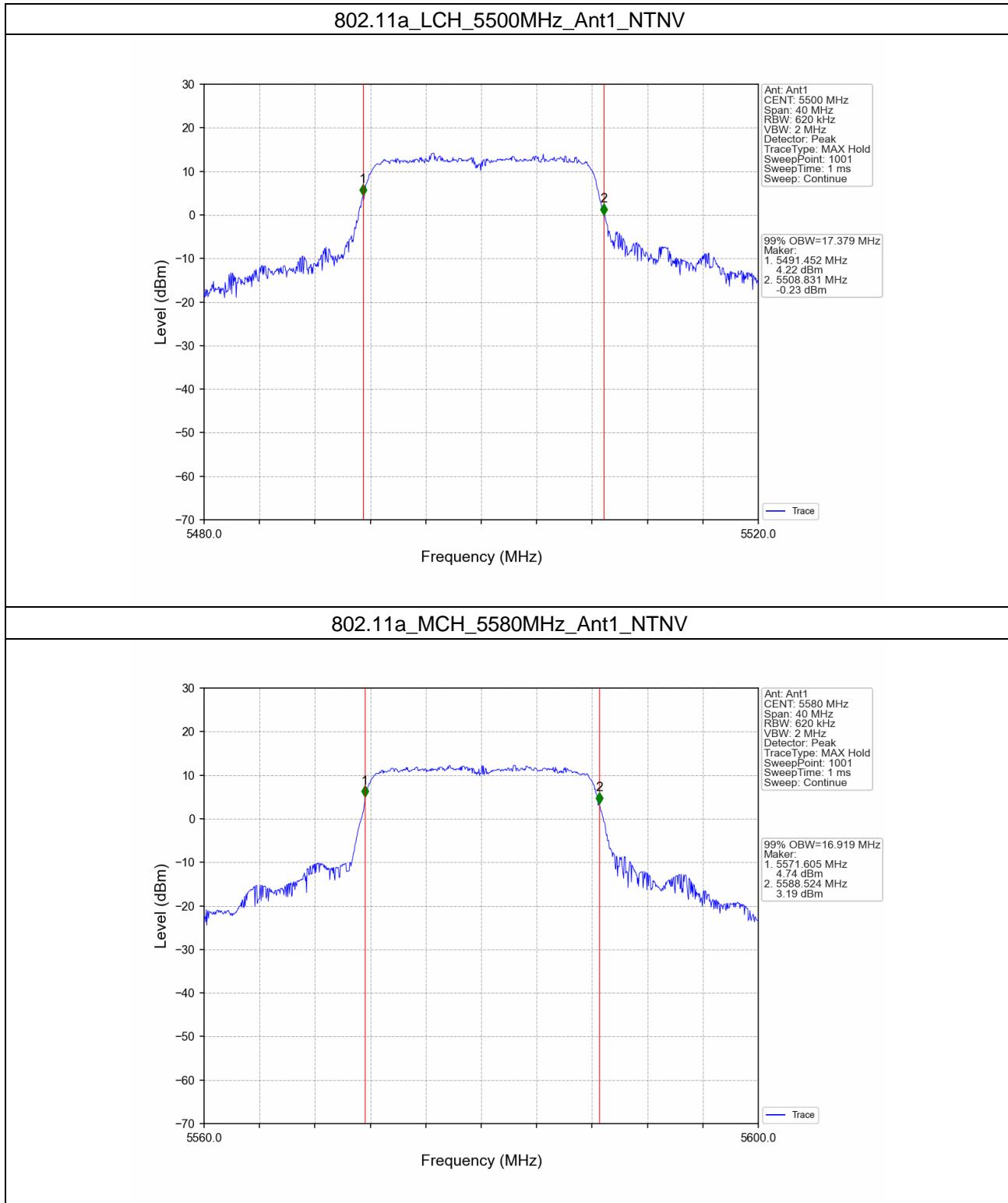
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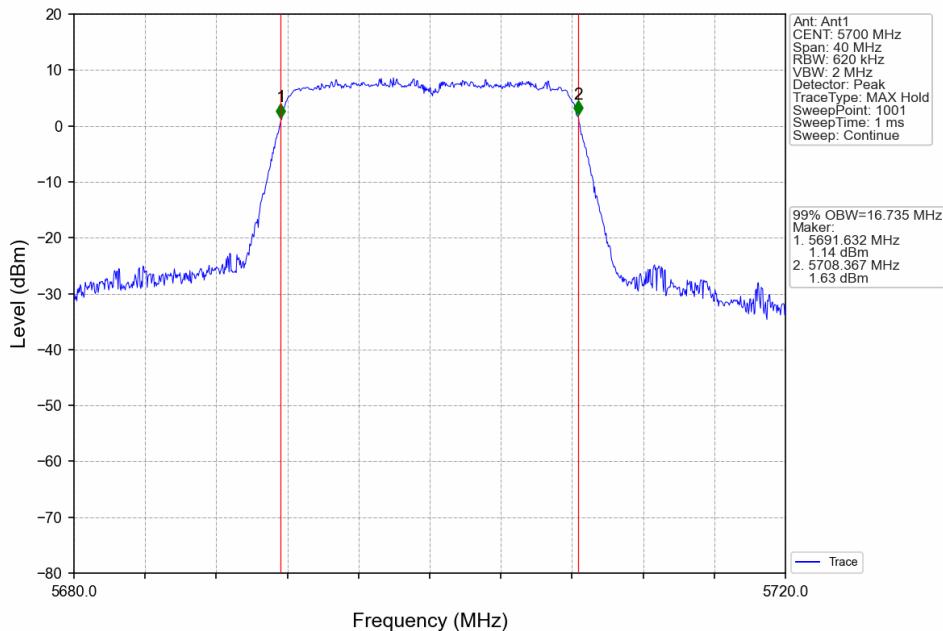
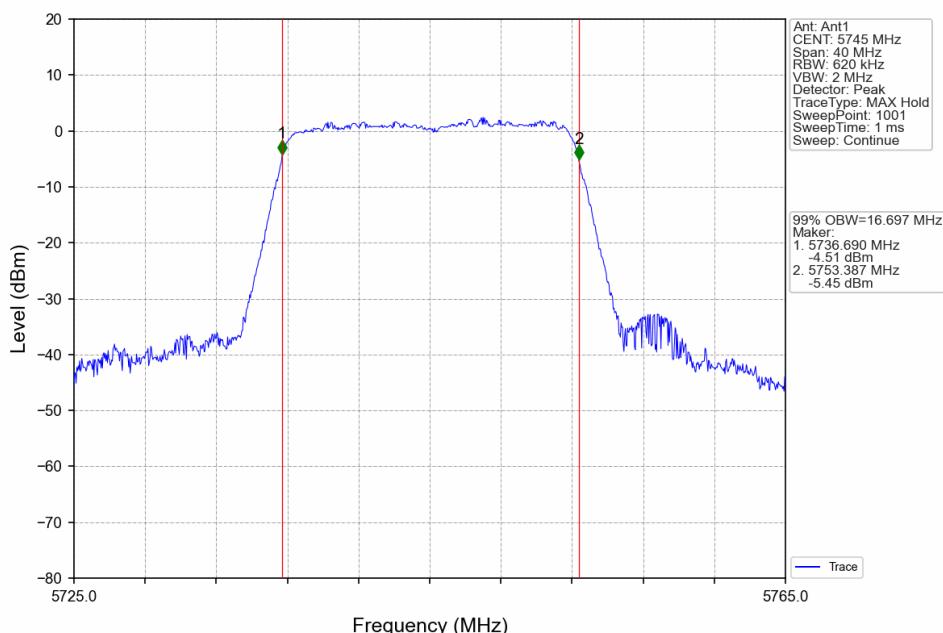
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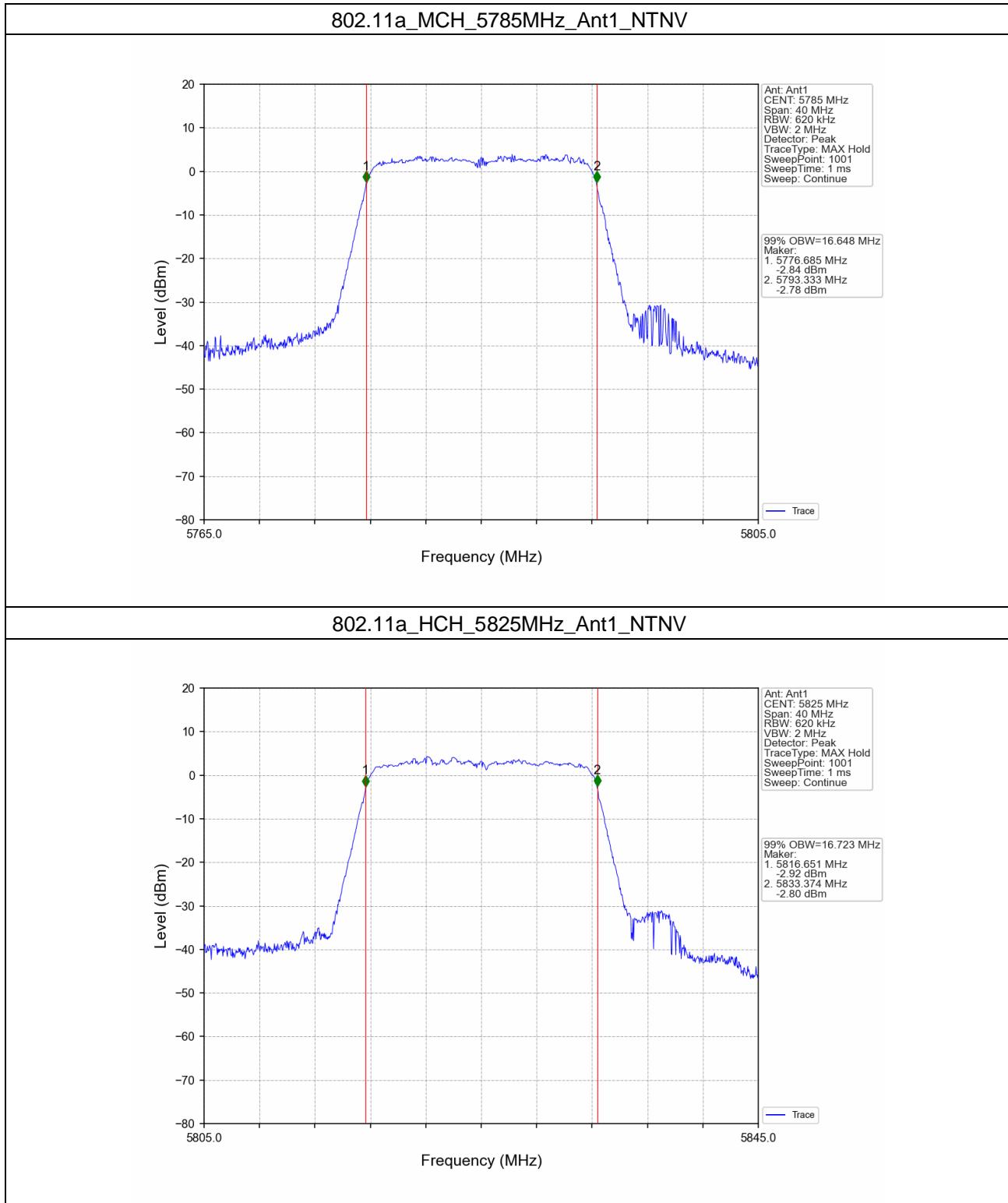
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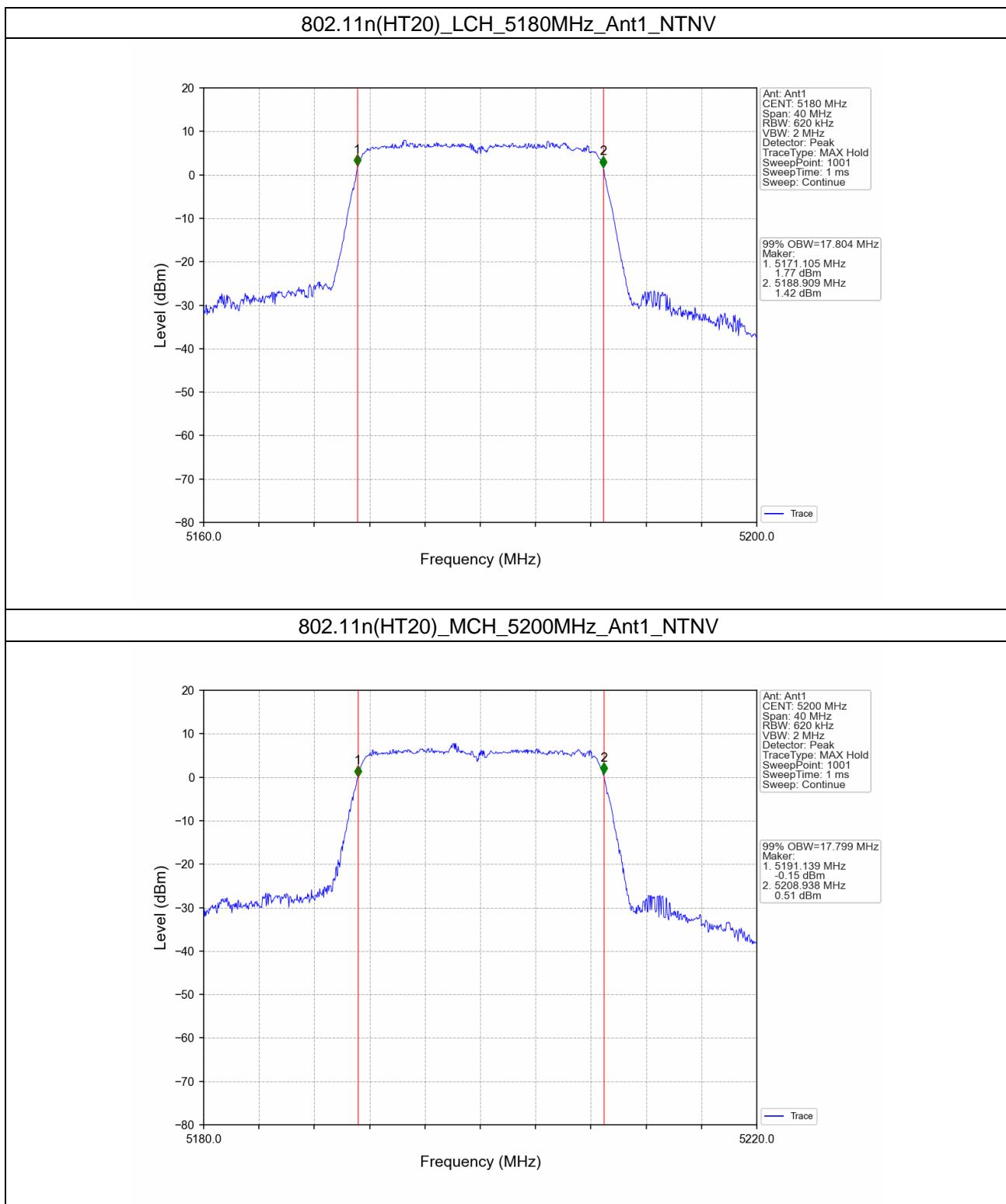
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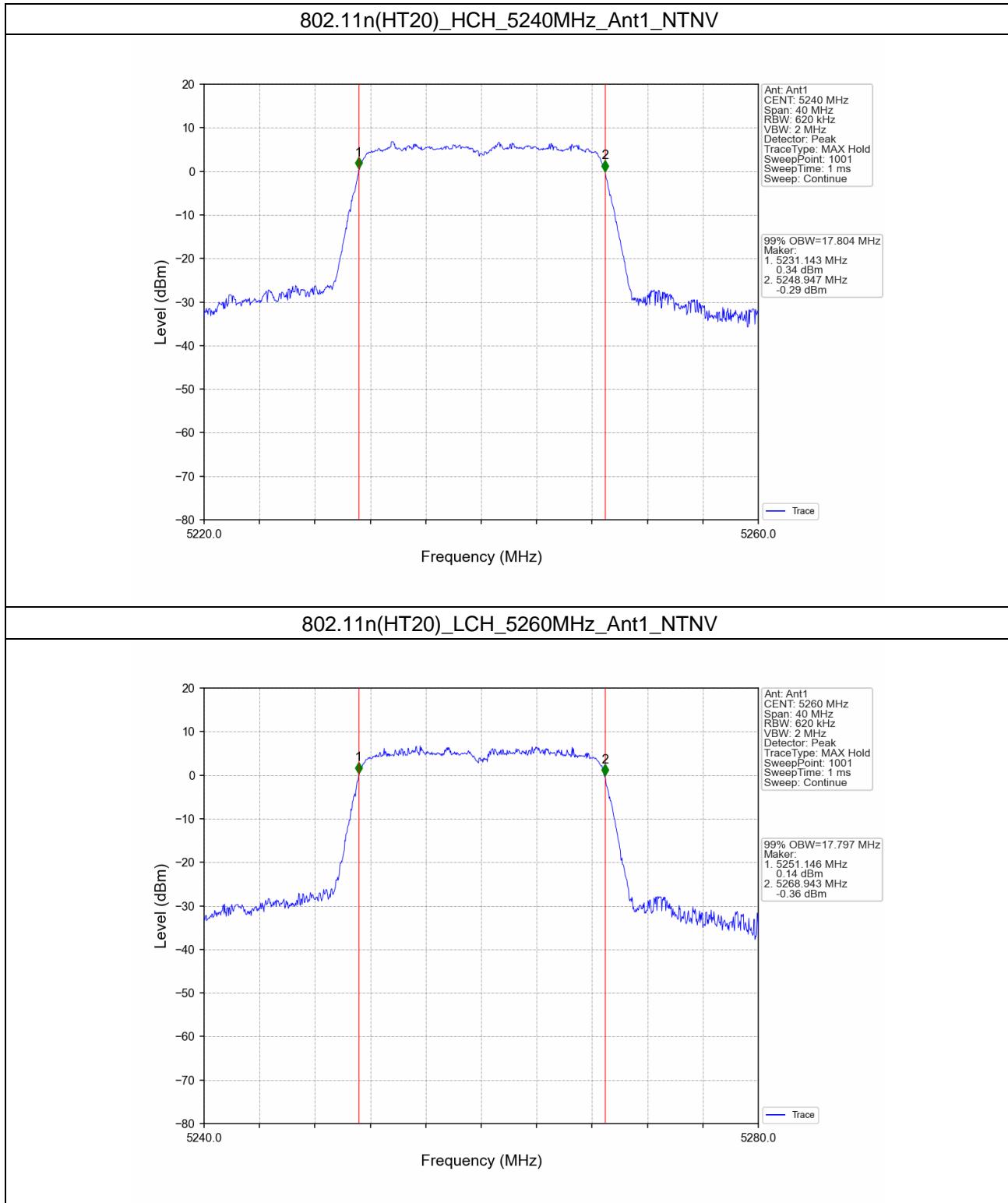
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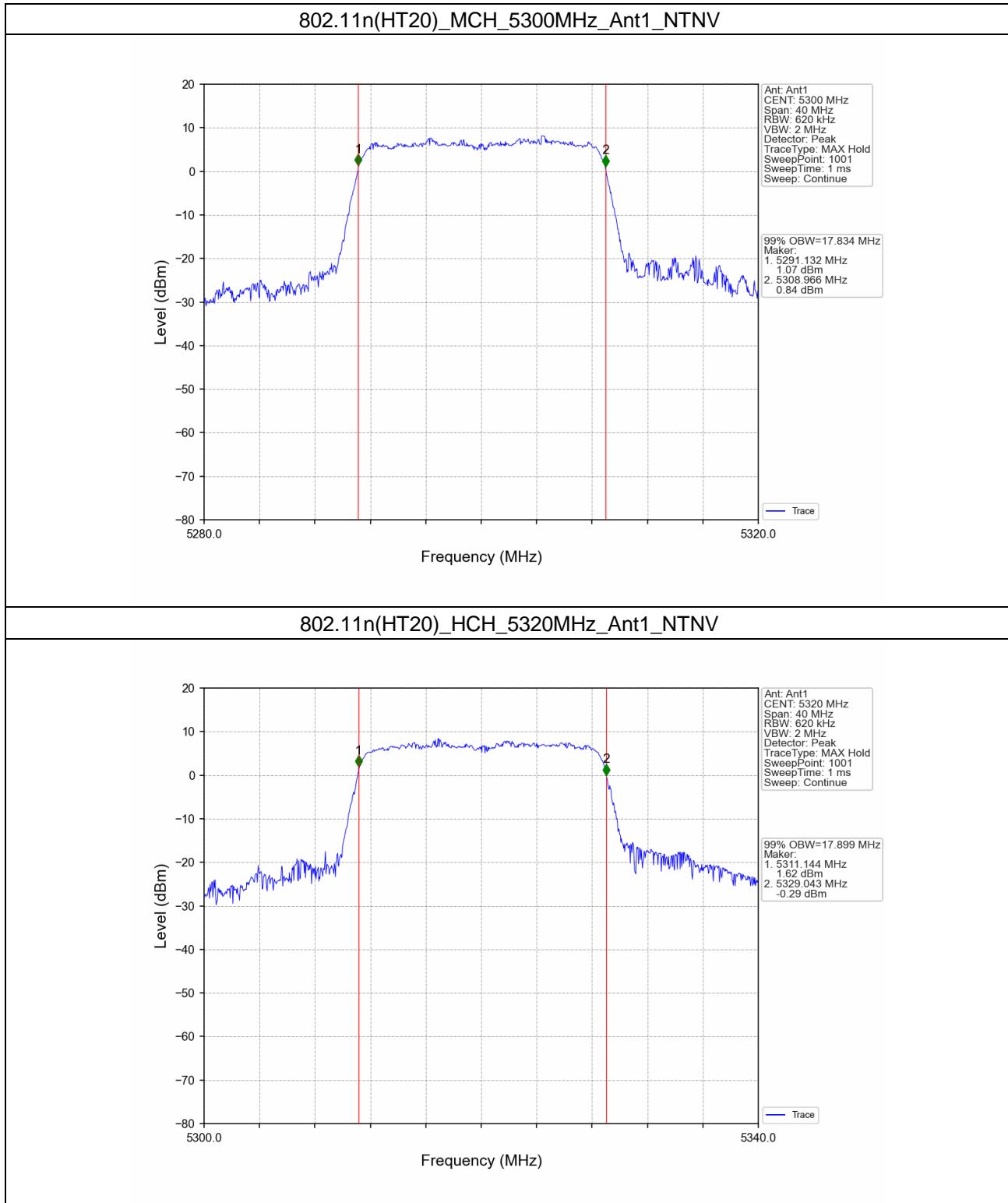
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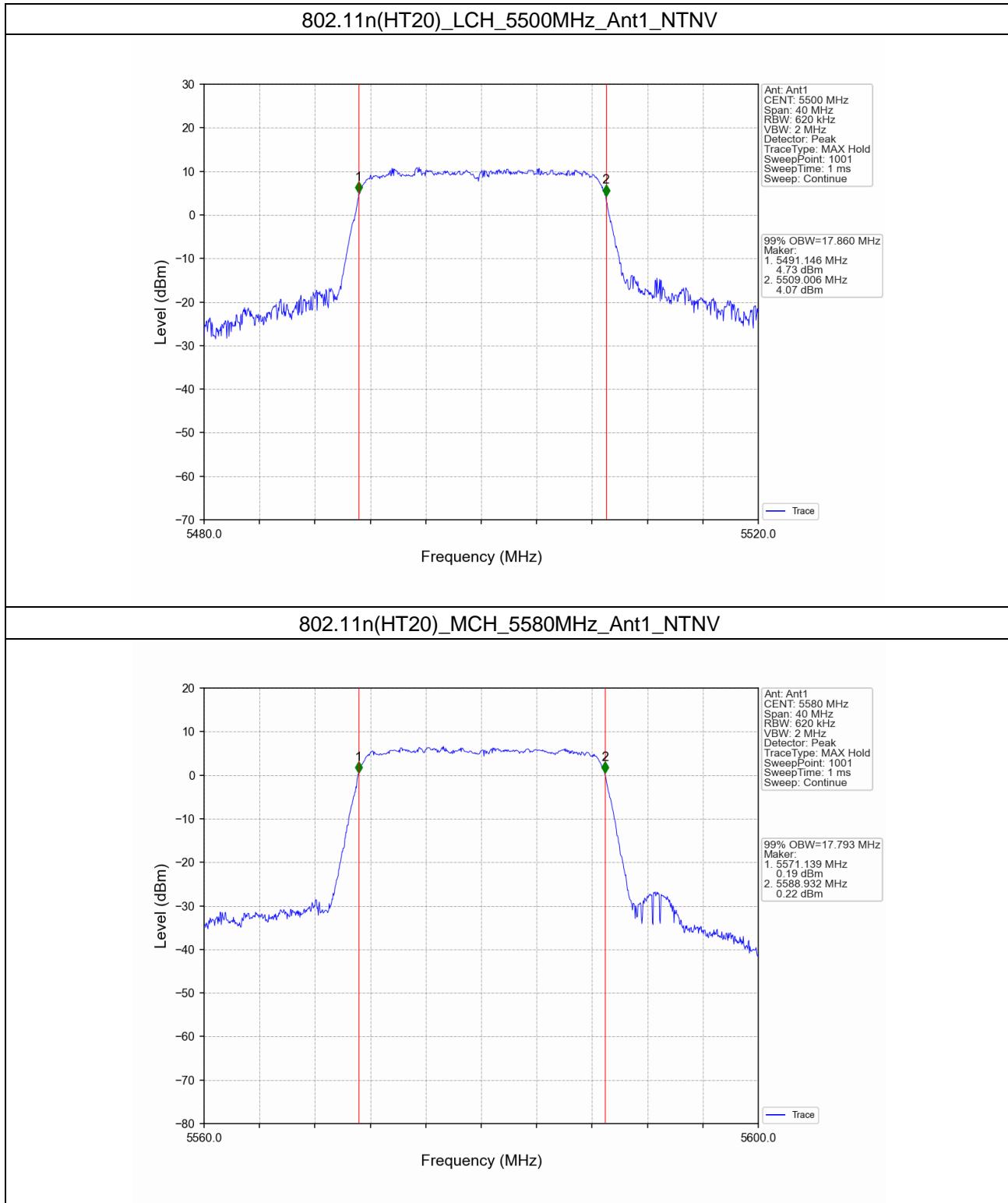
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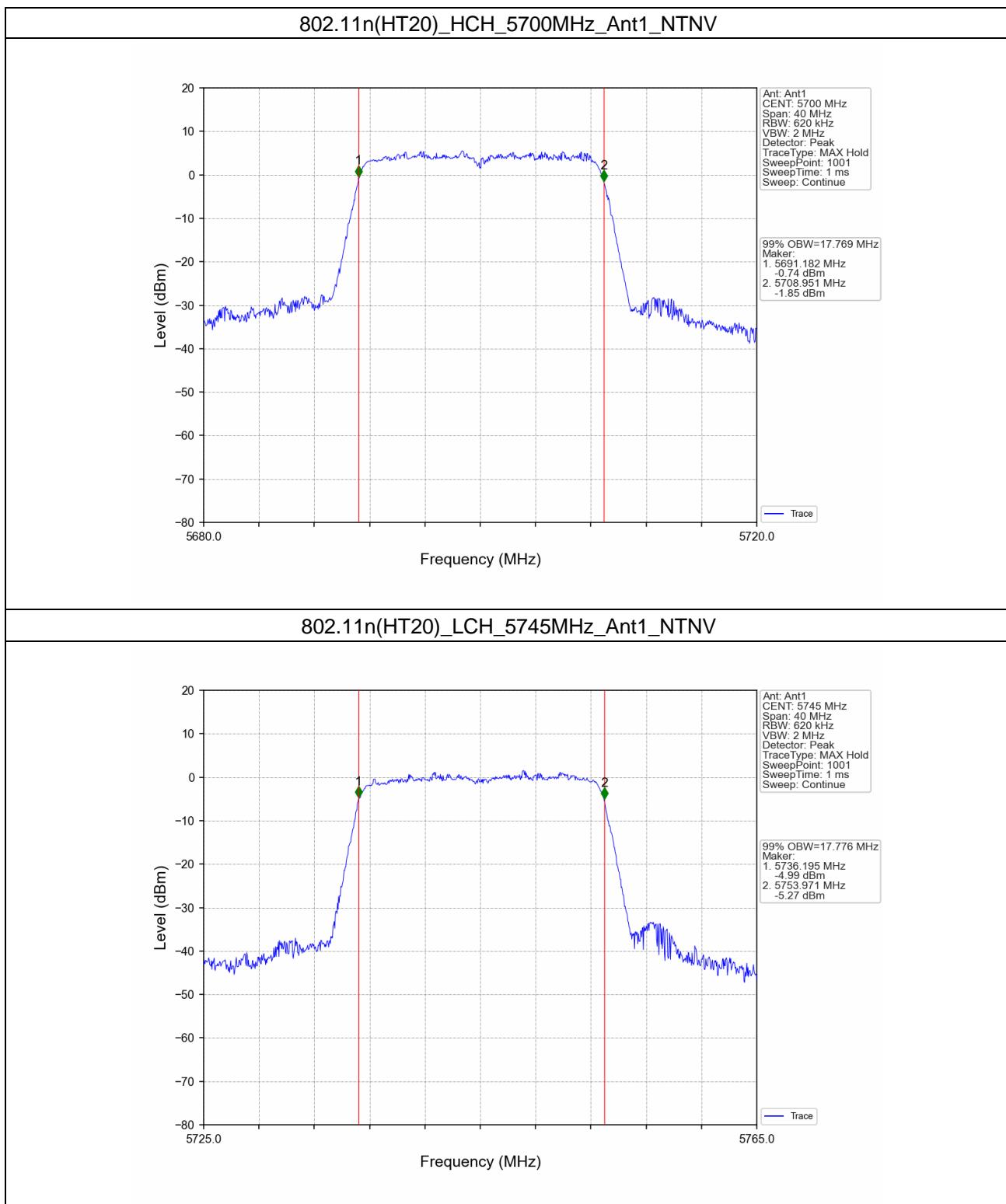
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