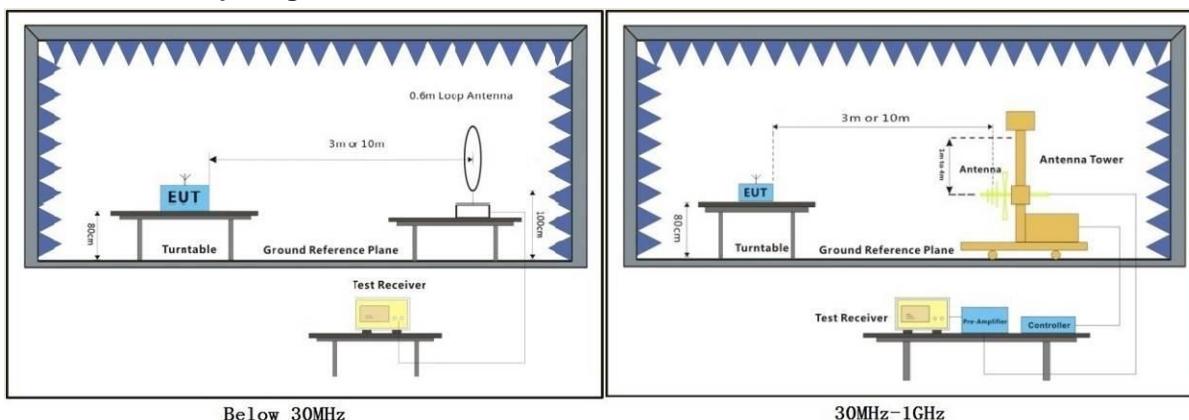


		rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	08	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation 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). 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.

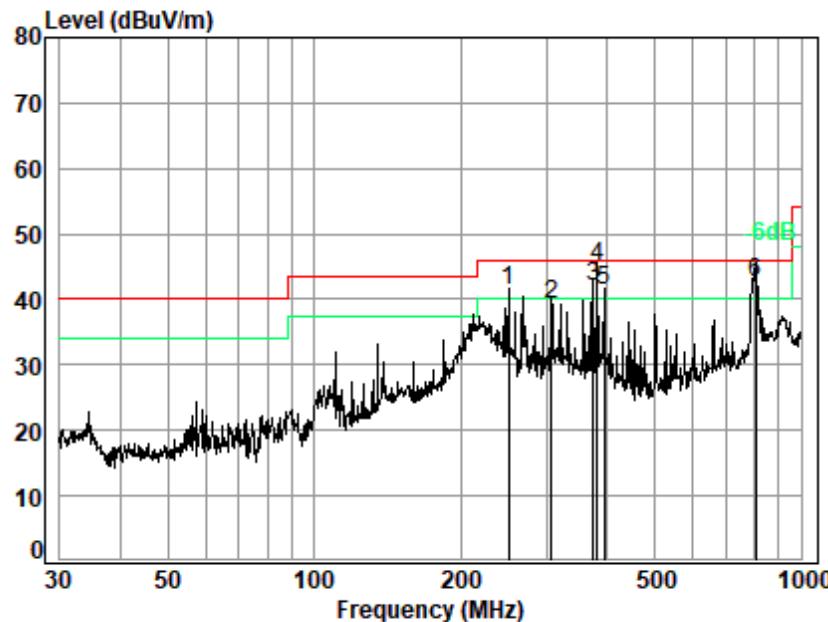
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Test Mode: 05; Polarity: Horizontal Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00170AT
Mode : 05

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Level	Level	Line		
1	250.3012	0.82	16.82	25.22	49.01	41.43	46.00	-4.57 QP
2	306.7537	1.08	18.62	25.15	44.65	39.20	46.00	-6.80 QP
3	374.6226	1.61	20.04	25.64	45.87	41.88	46.00	-4.12 QP
4	381.2487	1.63	20.30	25.69	48.92	45.16	46.00	-0.84 QP
5	393.4724	1.68	20.62	25.77	44.96	41.49	46.00	-4.51 QP
6	807.4291	2.71	27.38	26.58	38.98	42.49	46.00	-3.51 QP

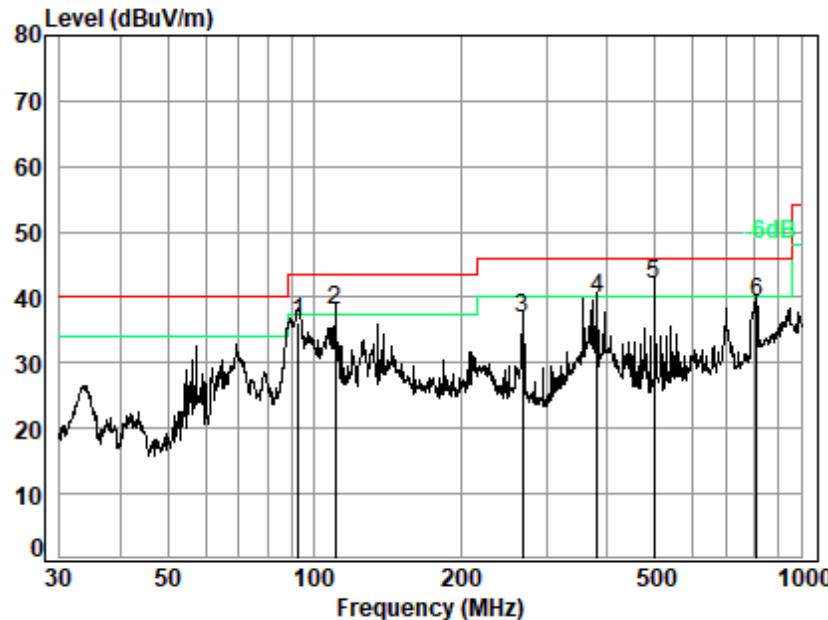


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Test Mode: 05; Polarity: Vertical Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00170AT
Mode : 05

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Level	Level	Line		
1	92.7872	0.72	13.86	25.81	47.57	36.34	43.50	-7.16 QP
2	110.5687	0.89	15.24	25.74	47.74	38.13	43.50	-5.37 QP
3	267.5455	0.89	17.14	25.17	44.04	36.90	46.00	-9.10 QP
4	381.2487	1.63	20.30	25.69	43.66	39.90	46.00	-6.10 QP
5	499.4247	1.41	22.84	26.35	44.13	42.03	46.00	-3.97 QP
6	810.2654	2.73	27.43	26.58	35.73	39.31	46.00	-6.69 QP

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2205000170AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2205000170AT



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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	2.065	2.086	98.99	0.04	0.04
		5200	2.065	2.086	98.99	0.04	0.03
		5240	2.065	2.086	98.99	0.04	0.04
		5260	2.066	2.086	99.04	0.04	0.04
		5300	2.065	2.086	98.99	0.04	0.04
		5320	2.065	2.086	98.99	0.04	0.04
		5500	2.065	2.085	99.04	0.04	0.04
		5580	2.065	2.085	99.04	0.04	0.04
		5700	2.065	2.085	99.04	0.04	0.04
		5745	2.065	2.085	99.04	0.04	0.07
		5785	2.065	2.086	98.99	0.04	0.04
		5825	2.065	2.085	99.04	0.04	0.04
802.11n (HT20)	SISO	5180	1.337	1.388	96.33	0.16	0.03
		5200	1.337	1.387	96.40	0.16	0.03
		5240	1.337	1.387	96.40	0.16	0.03
		5260	1.337	1.387	96.40	0.16	0.03
		5300	1.337	1.388	96.33	0.16	0.03
		5320	1.338	1.388	96.40	0.16	0.03
		5500	1.337	1.387	96.40	0.16	0.03
		5580	1.337	1.388	96.33	0.16	0.03
		5700	1.337	1.387	96.40	0.16	0.03
		5745	1.337	1.388	96.33	0.16	0.03
		5785	1.337	1.388	96.33	0.16	0.03
		5825	1.337	1.387	96.40	0.16	0.03
802.11n (HT40)	SISO	5190	0.943	1.045	90.24	0.45	0.04
		5230	0.944	1.046	90.25	0.45	0.04
		5270	0.950	1.046	90.82	0.42	0.04
		5310	0.946	1.045	90.53	0.43	0.07

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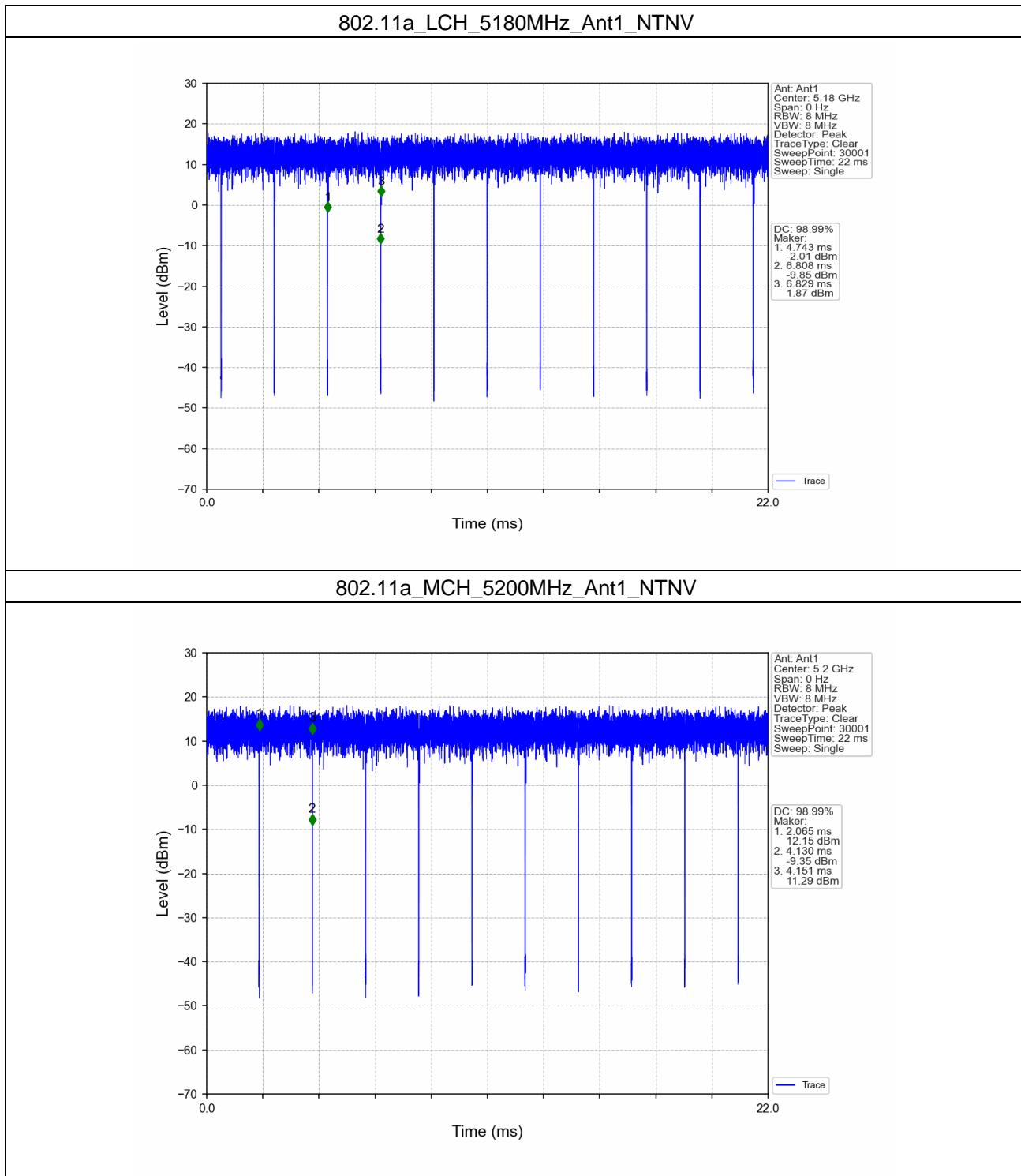
		5510	0.944	1.046	90.25	0.45	0.04
		5550	0.943	1.045	90.24	0.45	0.04
		5670	0.946	1.045	90.53	0.43	0.04
		5755	0.949	1.045	90.81	0.42	0.04
		5795	0.946	1.045	90.53	0.43	0.07
802.11ac (VHT20)	SISO	5180	1.933	2.034	95.03	0.22	0.04
		5200	1.933	2.033	95.08	0.22	0.04
		5240	1.933	2.034	95.03	0.22	0.03
		5260	1.933	2.034	95.03	0.22	0.03
		5300	1.933	2.033	95.08	0.22	0.04
		5320	1.933	2.033	95.08	0.22	0.00
		5500	1.933	2.034	95.03	0.22	0.07
		5580	1.933	2.033	95.08	0.22	0.00
		5700	1.933	2.033	95.08	0.22	0.00
		5745	1.933	2.034	95.03	0.22	0.03
		5785	1.933	2.034	95.03	0.22	0.00
		5825	1.933	2.033	95.08	0.22	0.00
802.11ac (VHT40)	SISO	5190	0.773	0.874	88.44	0.53	11.36
		5230	0.954	1.053	90.60	0.43	0.03
		5270	0.954	1.053	90.60	0.43	0.07
		5310	0.954	1.053	90.60	0.43	0.00
		5510	0.954	1.053	90.60	0.43	0.03
		5550	0.955	1.054	90.61	0.43	0.00
		5670	0.958	1.054	90.89	0.41	0.03
		5755	0.954	1.054	90.51	0.43	0.07
		5795	0.951	1.053	90.31	0.44	0.03
802.11ac (VHT80)	SISO	5210	0.460	0.561	82.00	0.86	0.04
		5290	0.461	0.561	82.17	0.85	0.10
		5530	0.466	0.562	82.92	0.81	0.07
		5610	0.465	0.561	82.89	0.82	0.07
		5775	0.466	0.561	83.07	0.81	0.11

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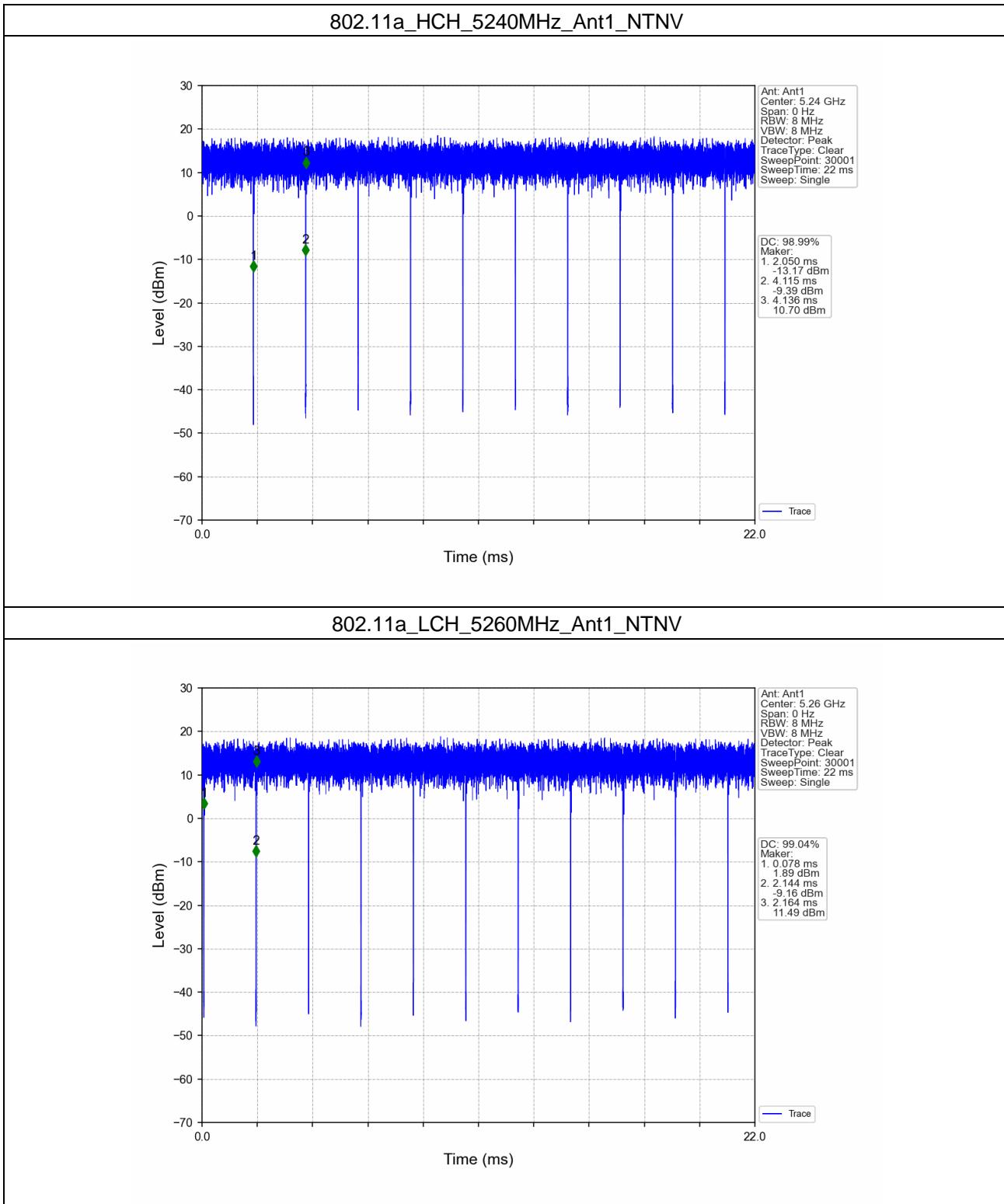


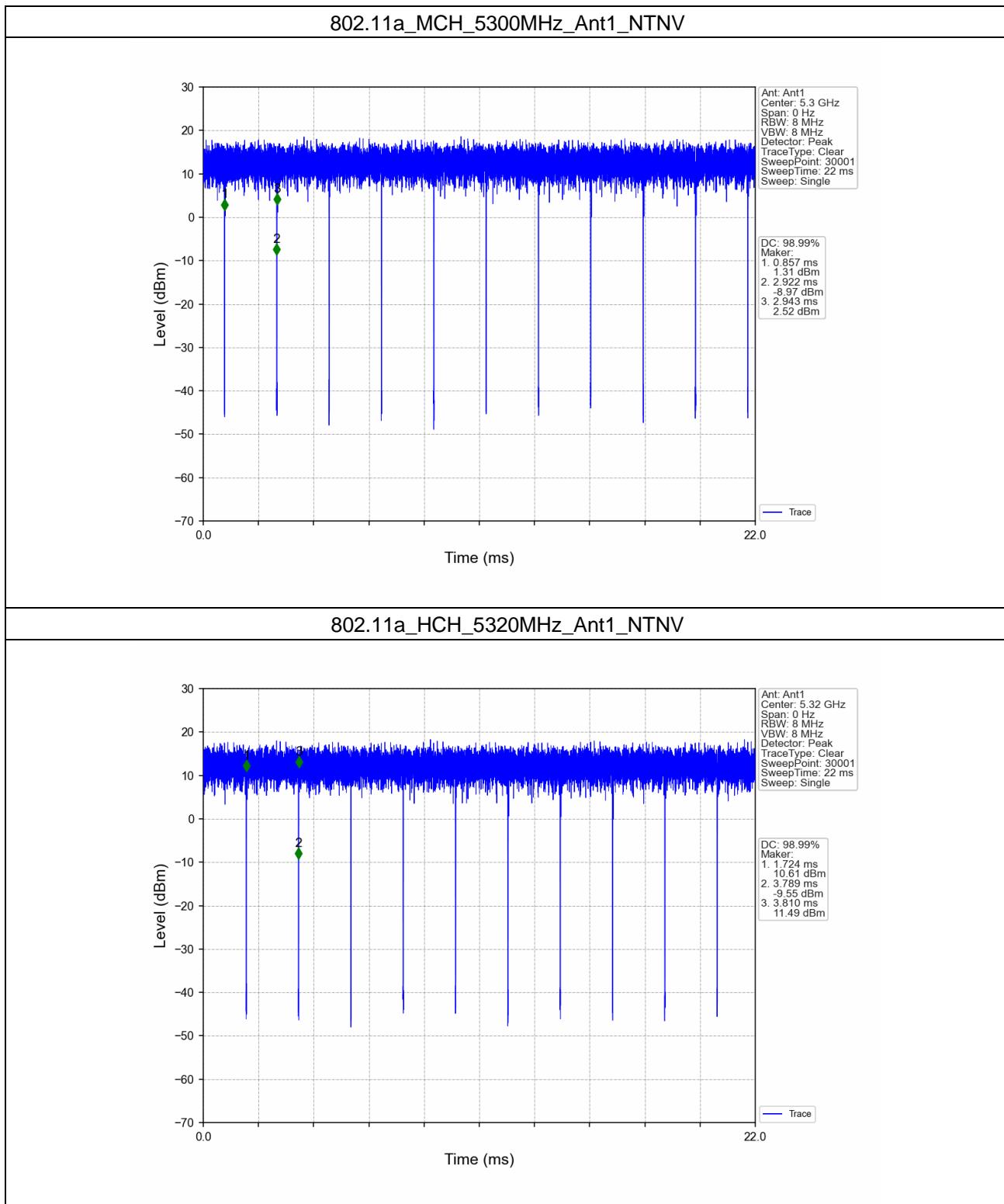
1.1.2 Test Graph

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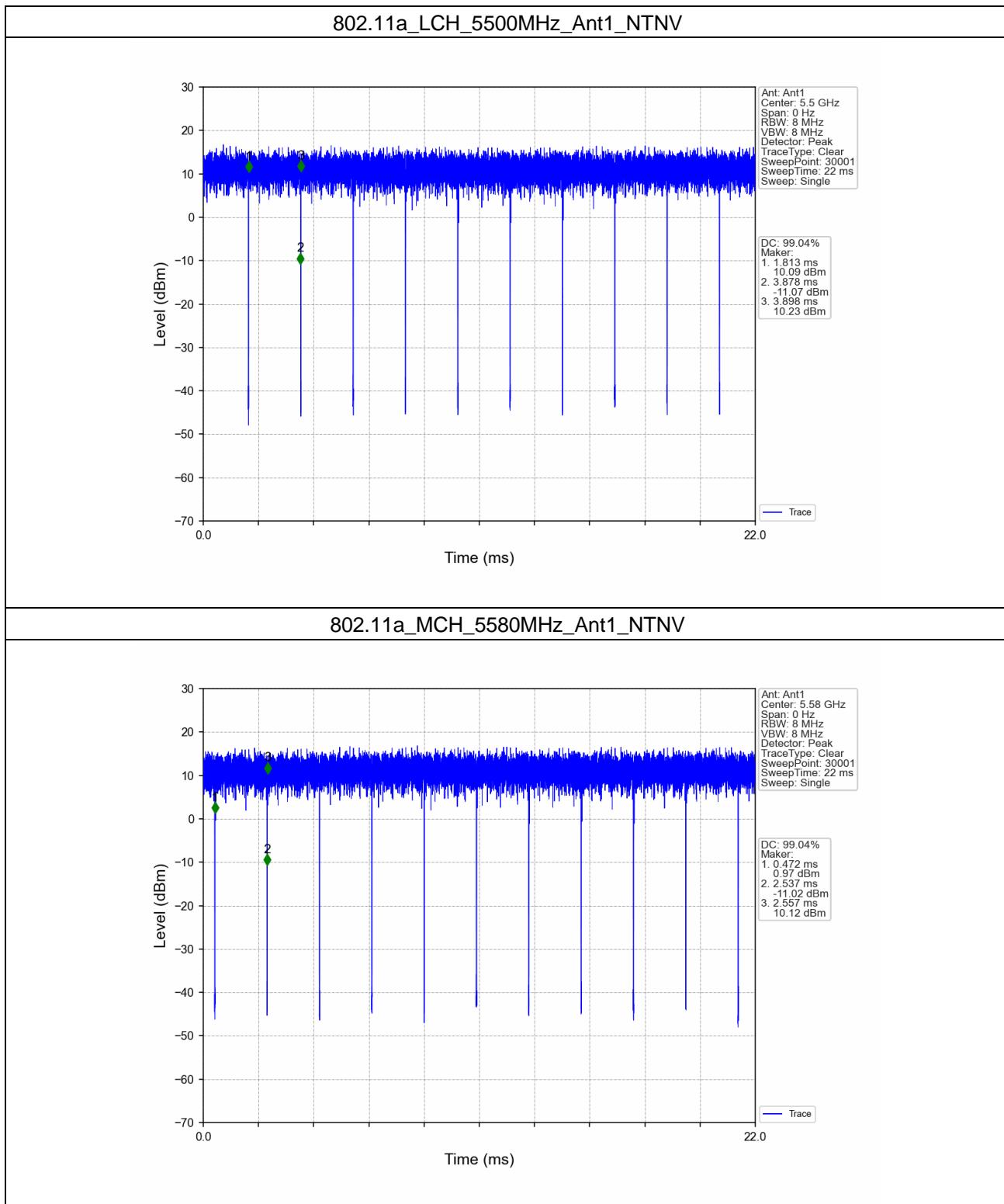


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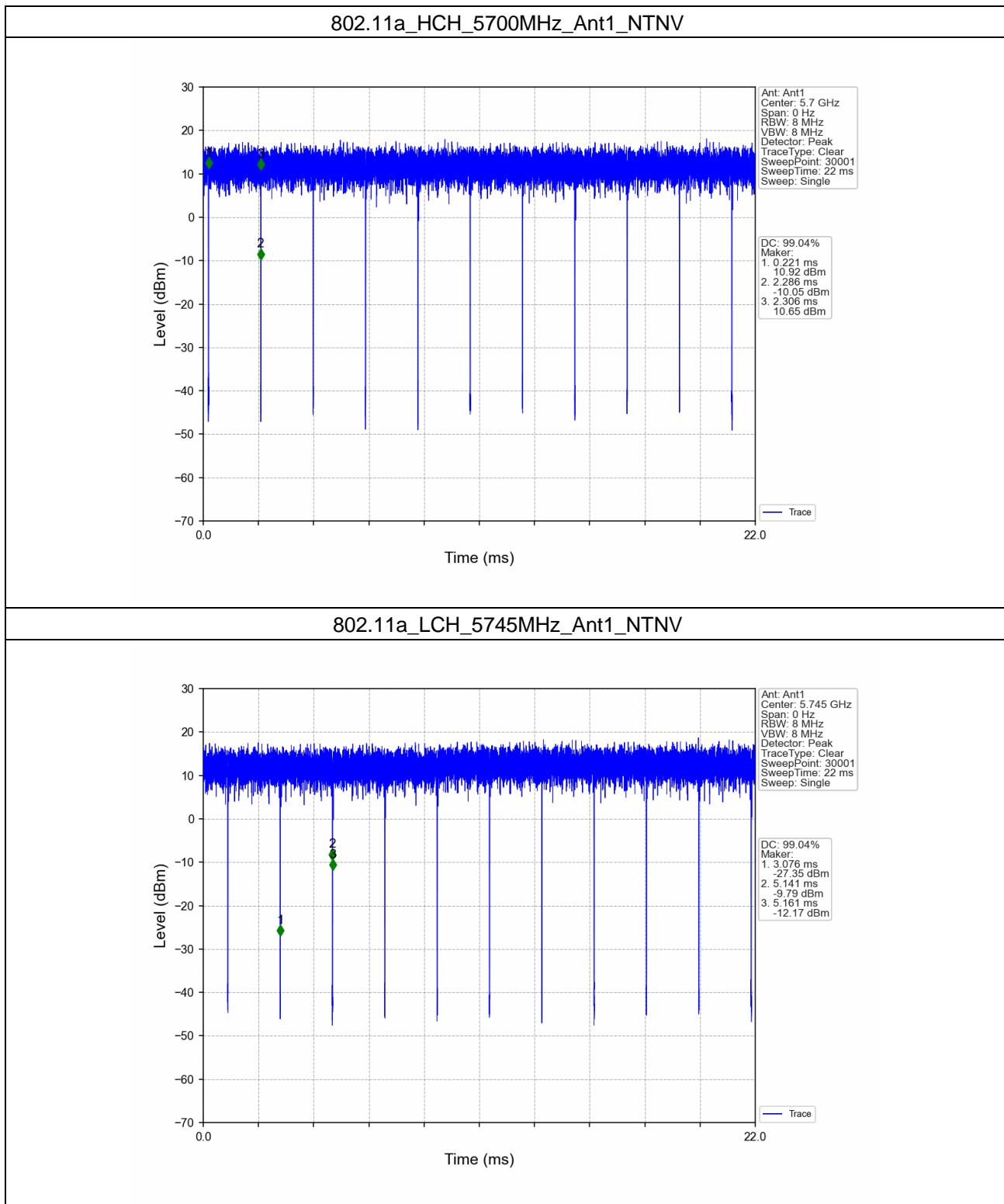
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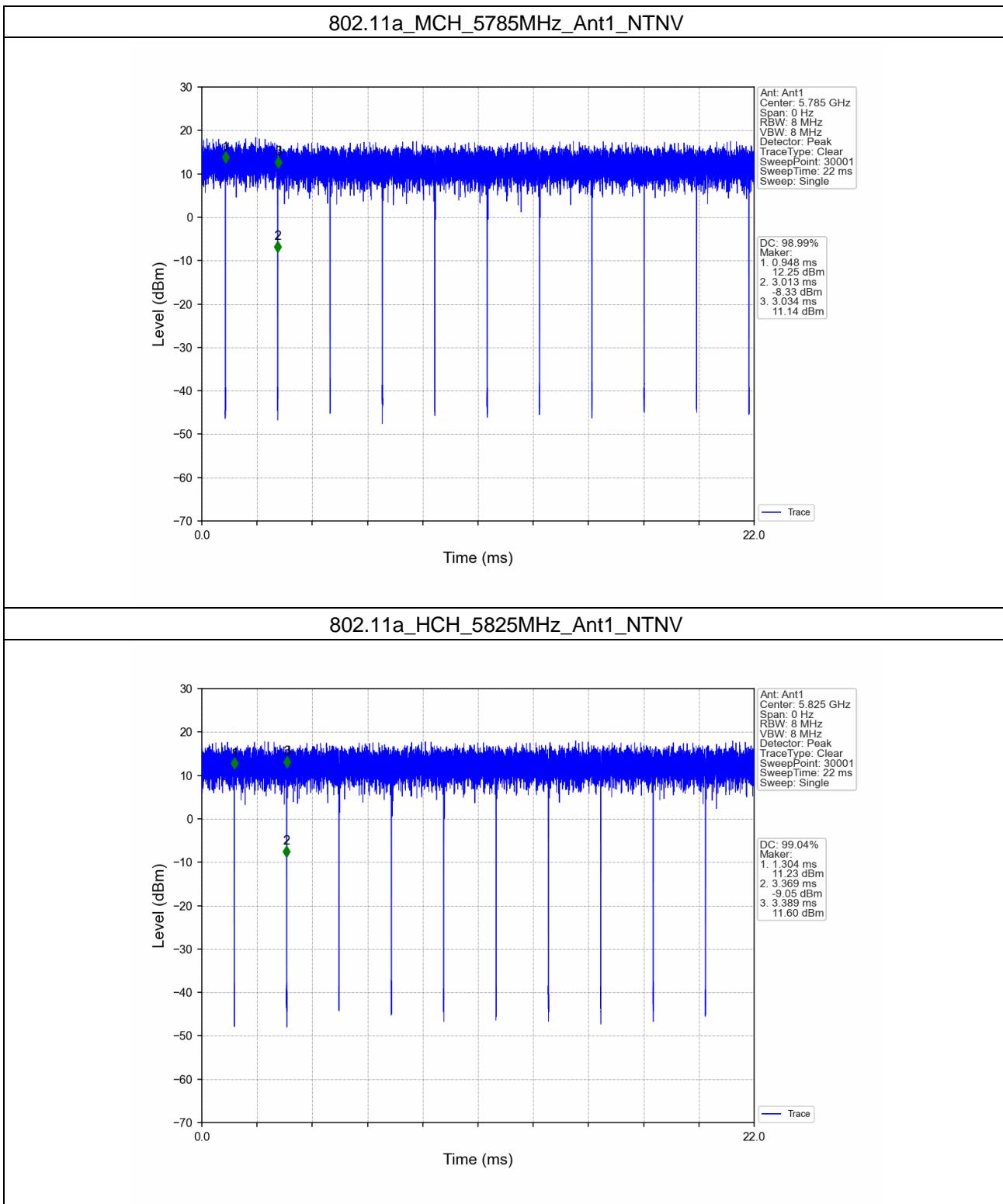
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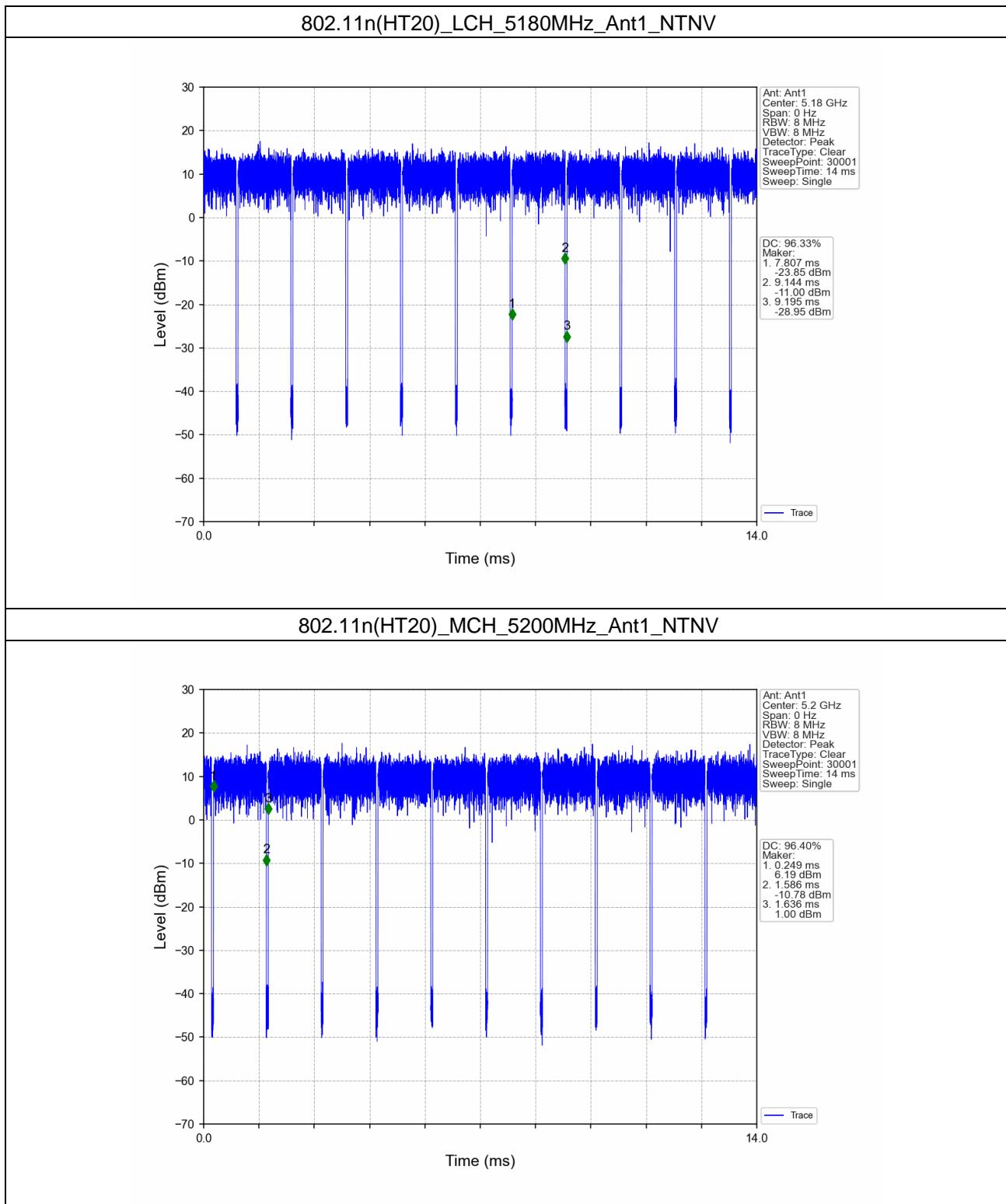


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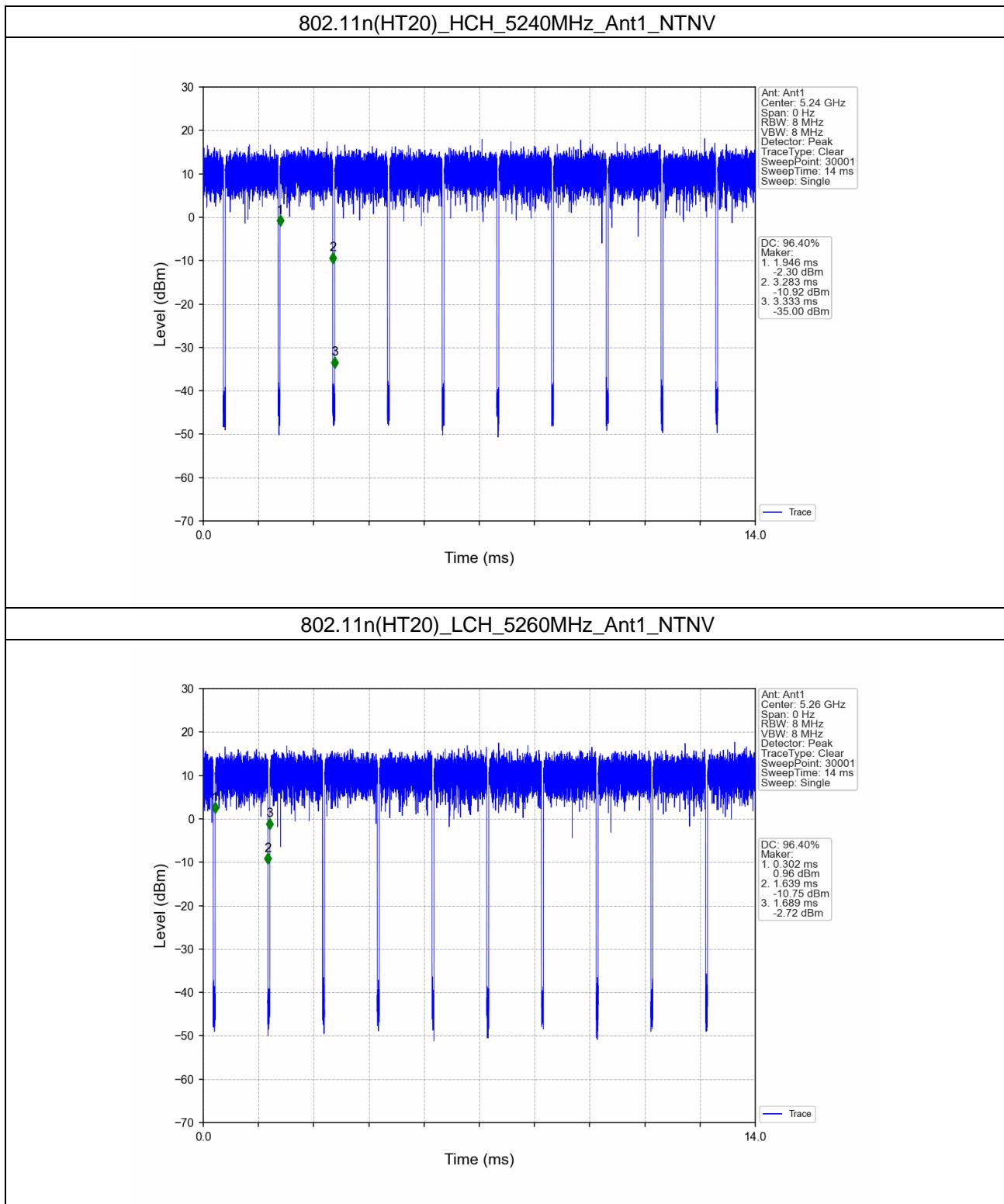
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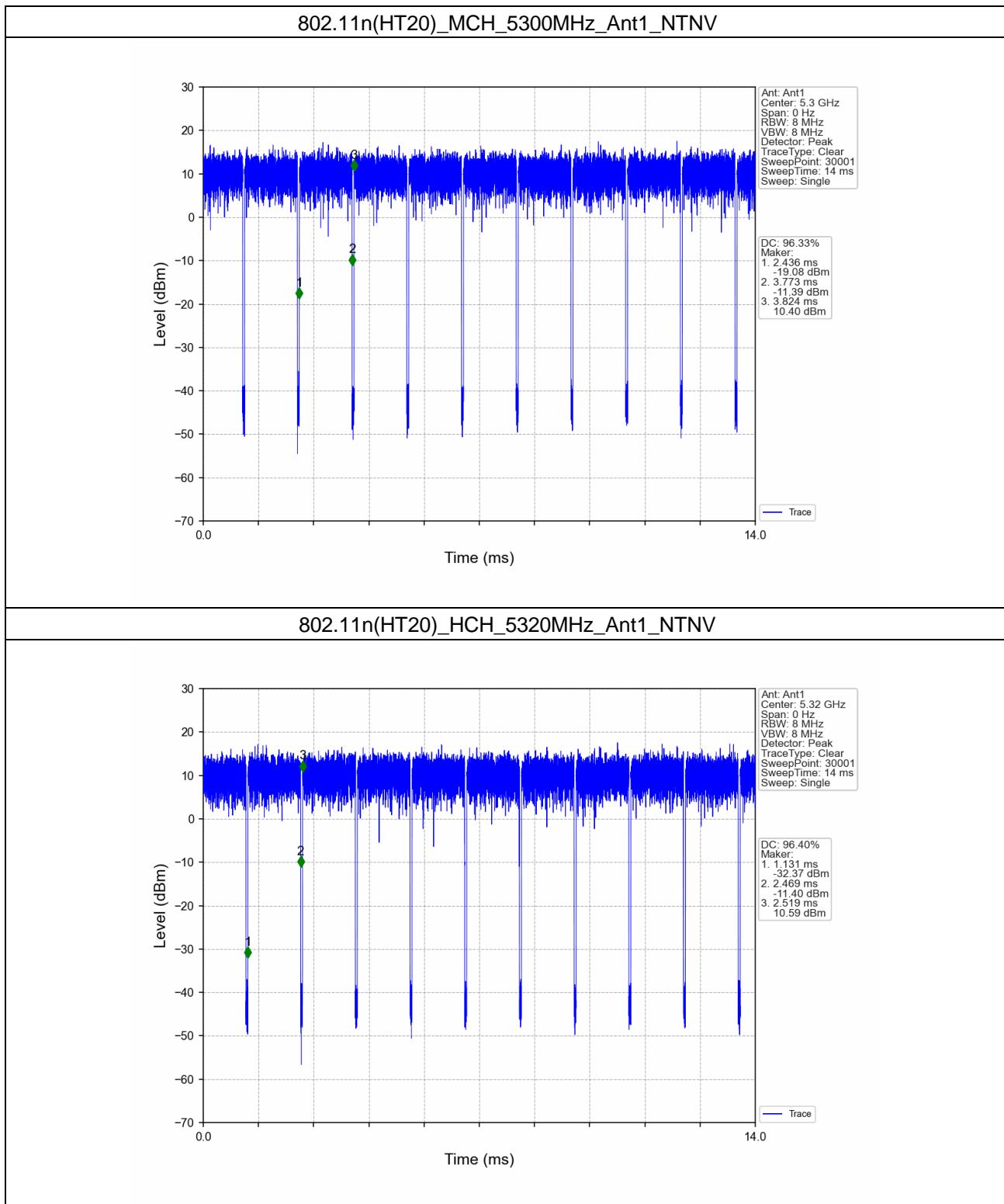


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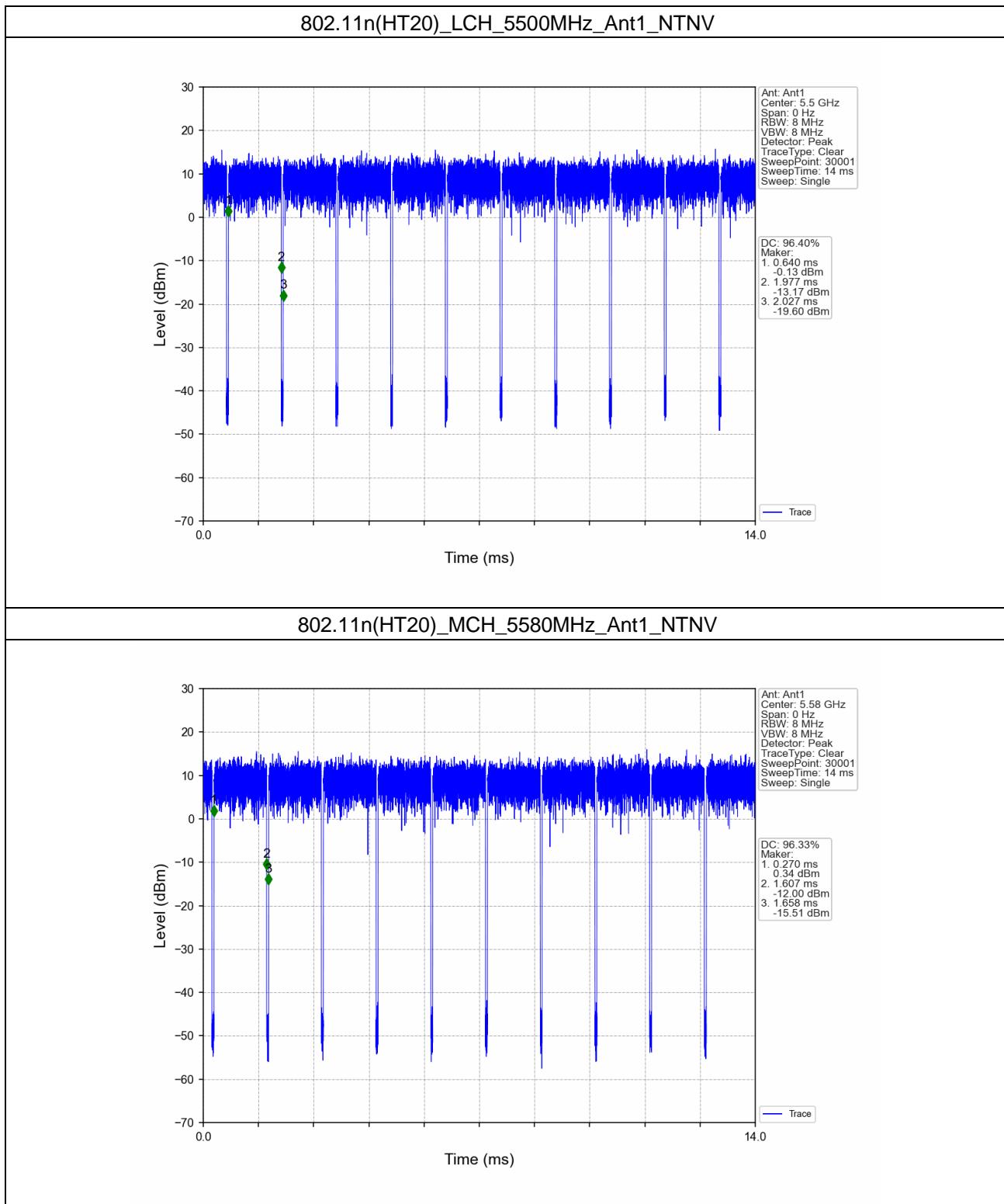
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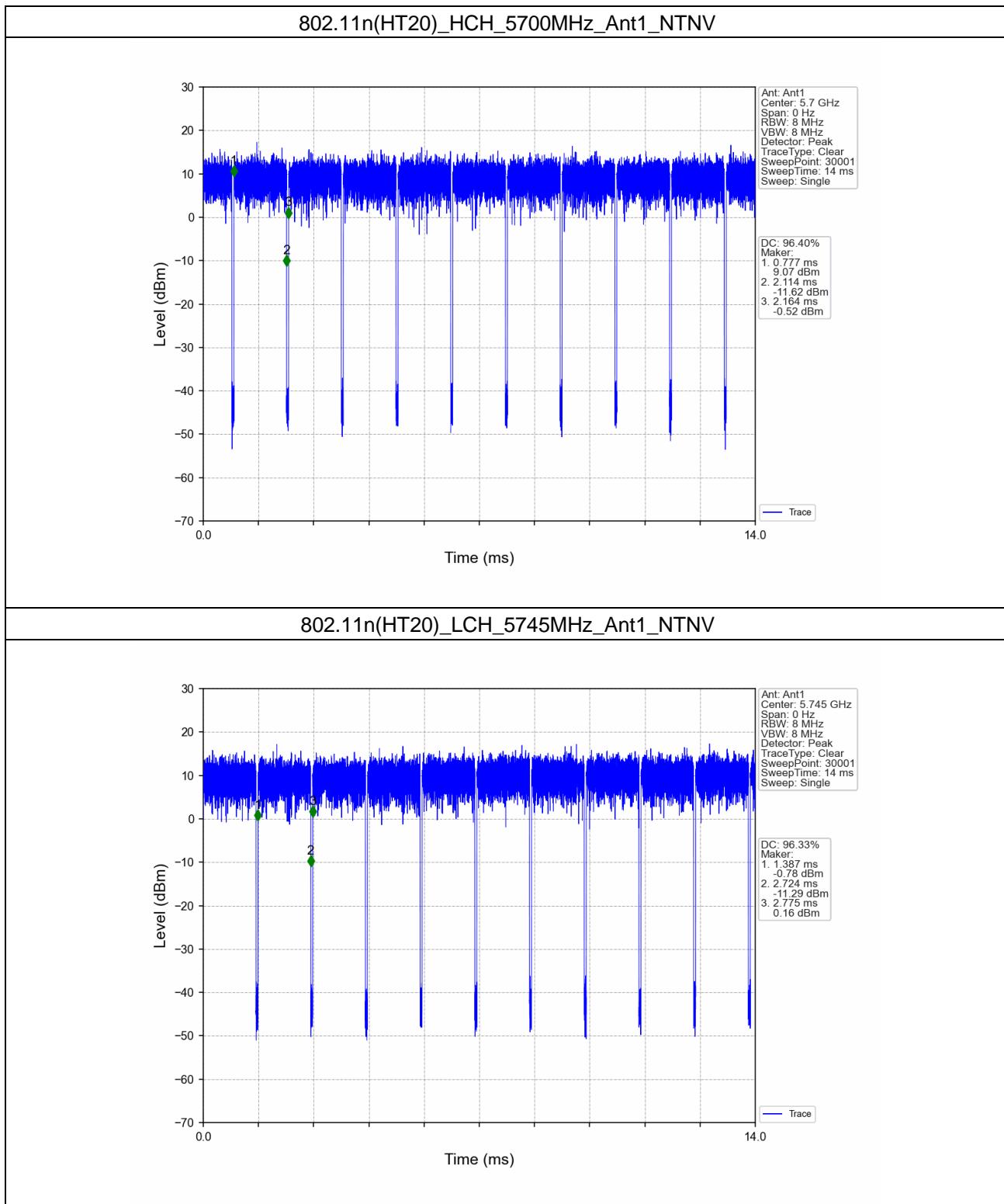


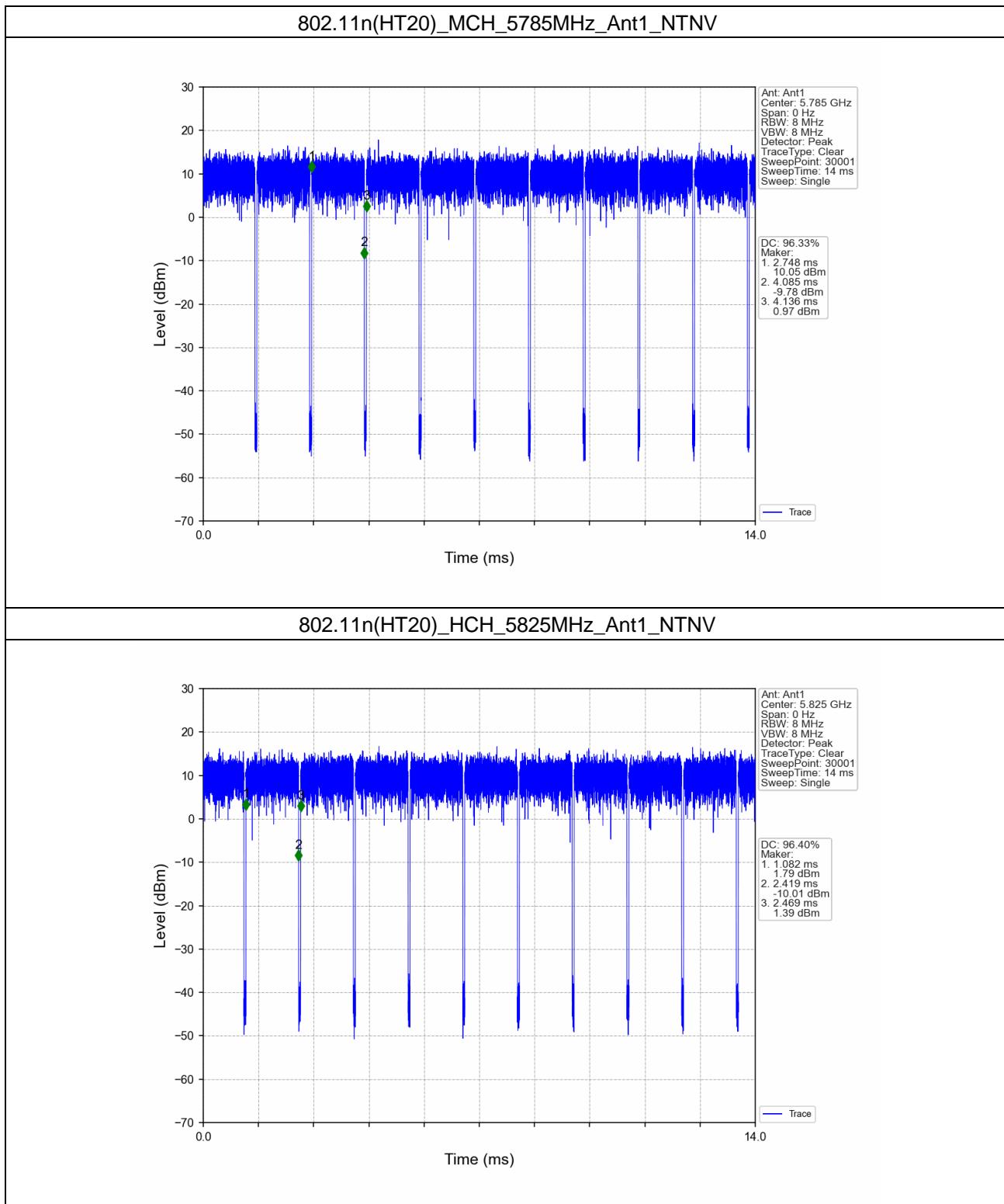
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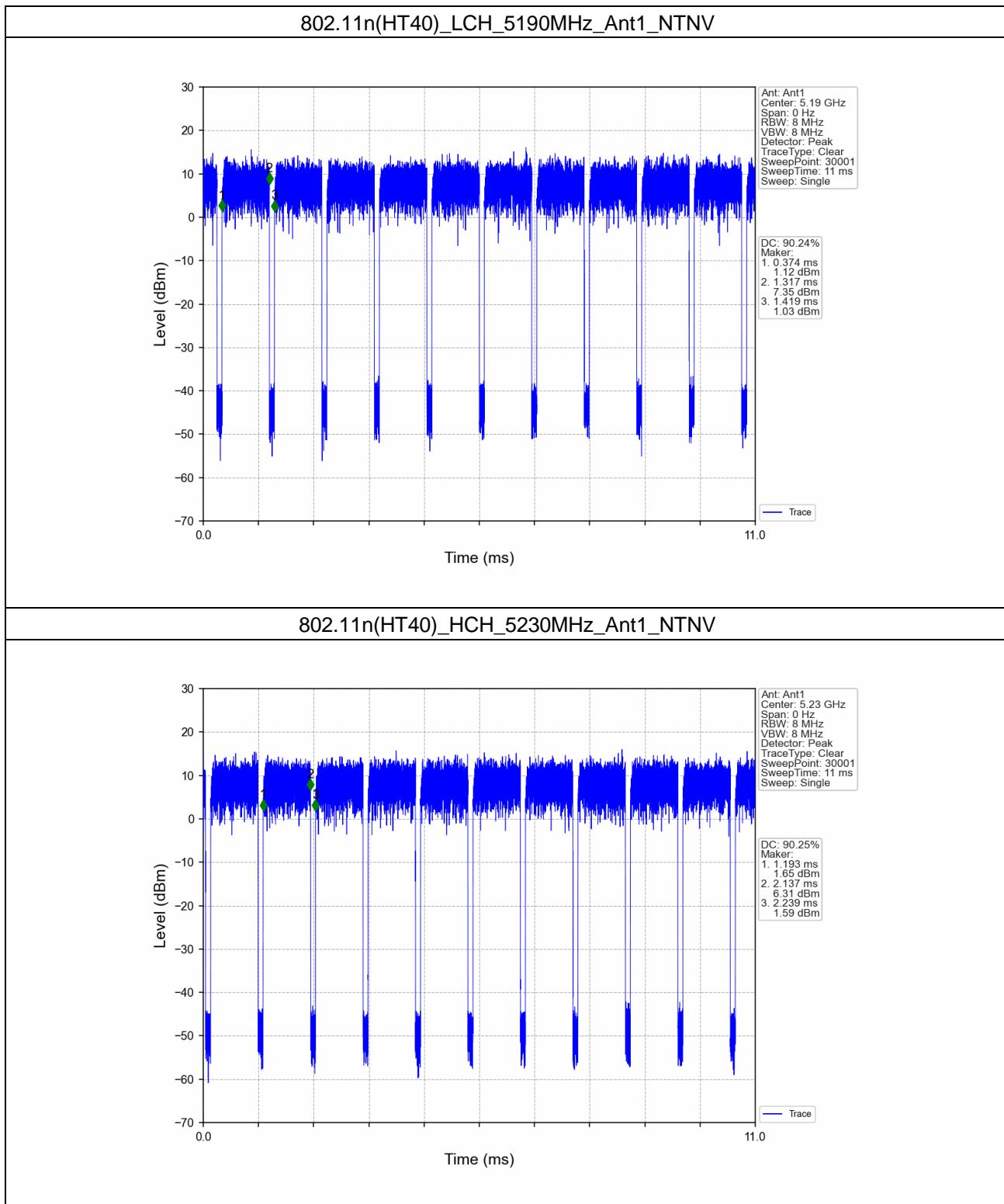




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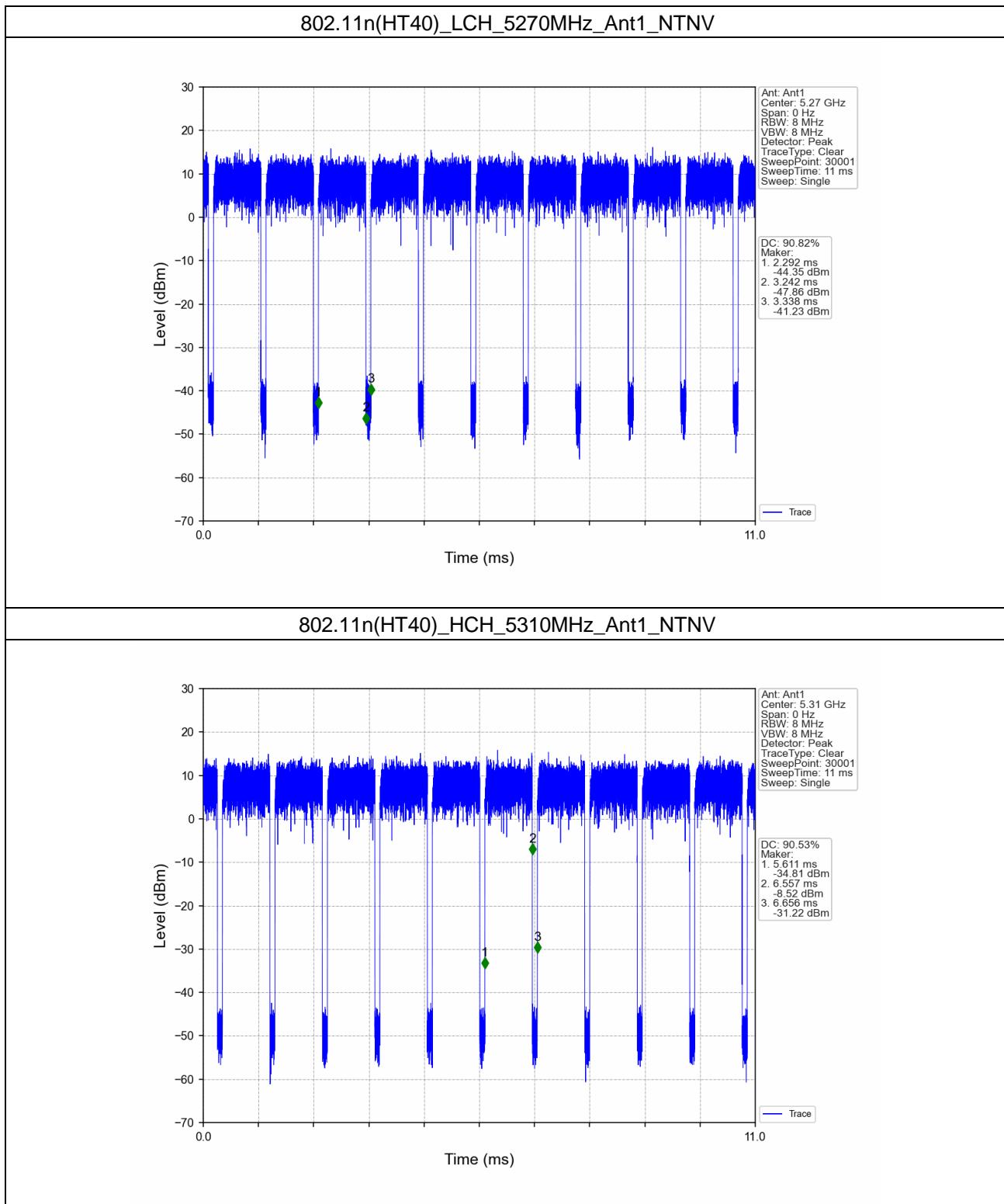
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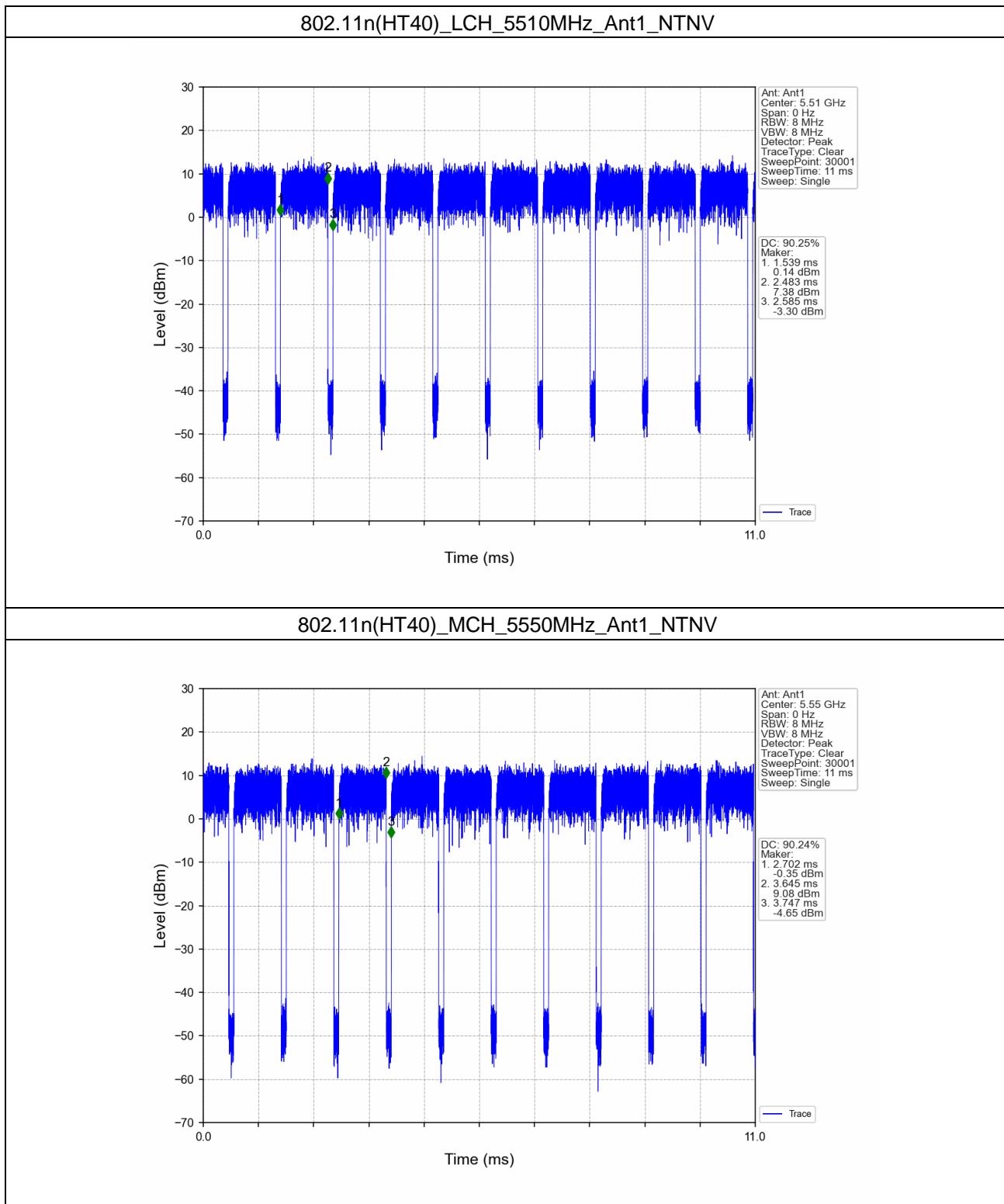
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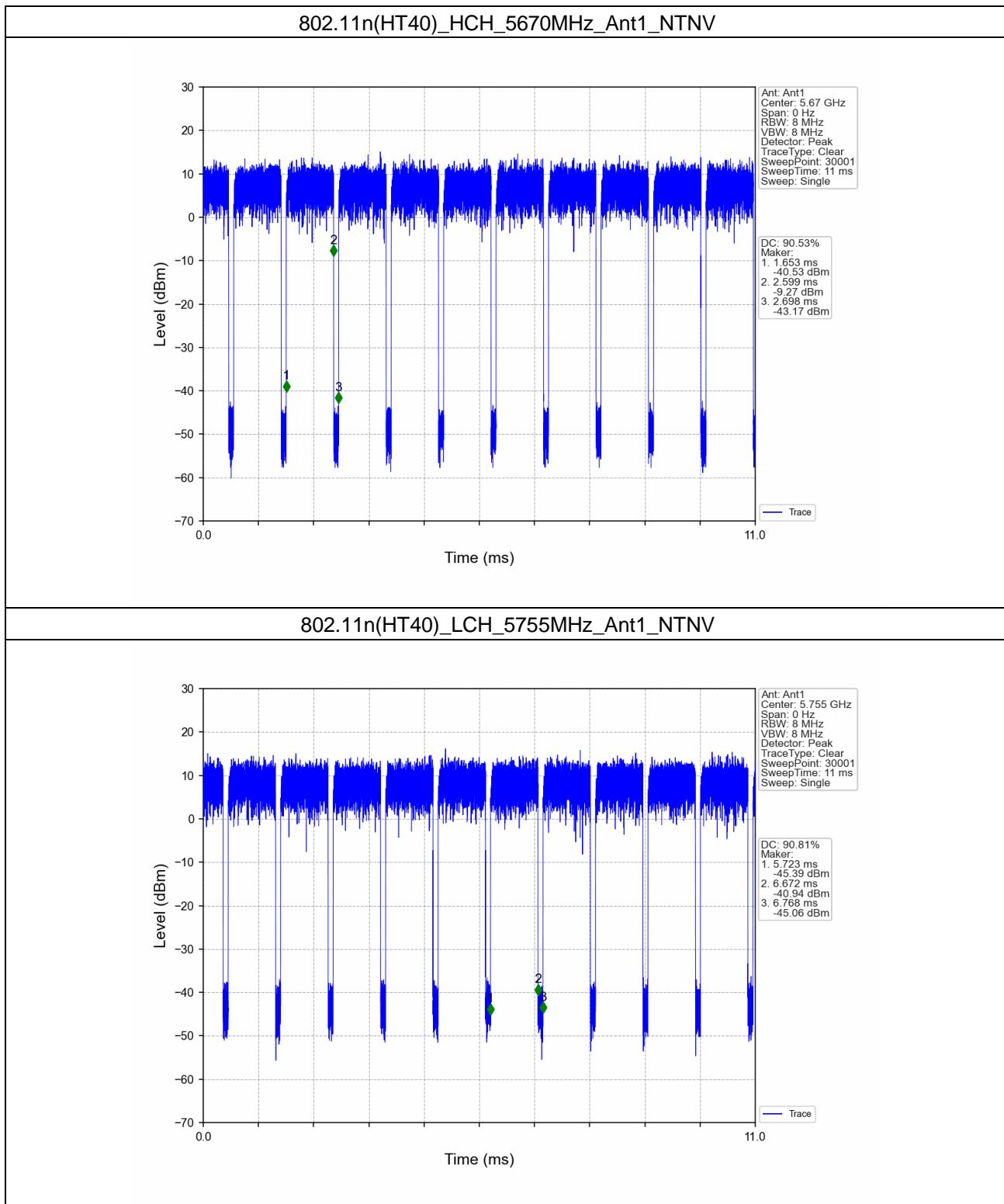


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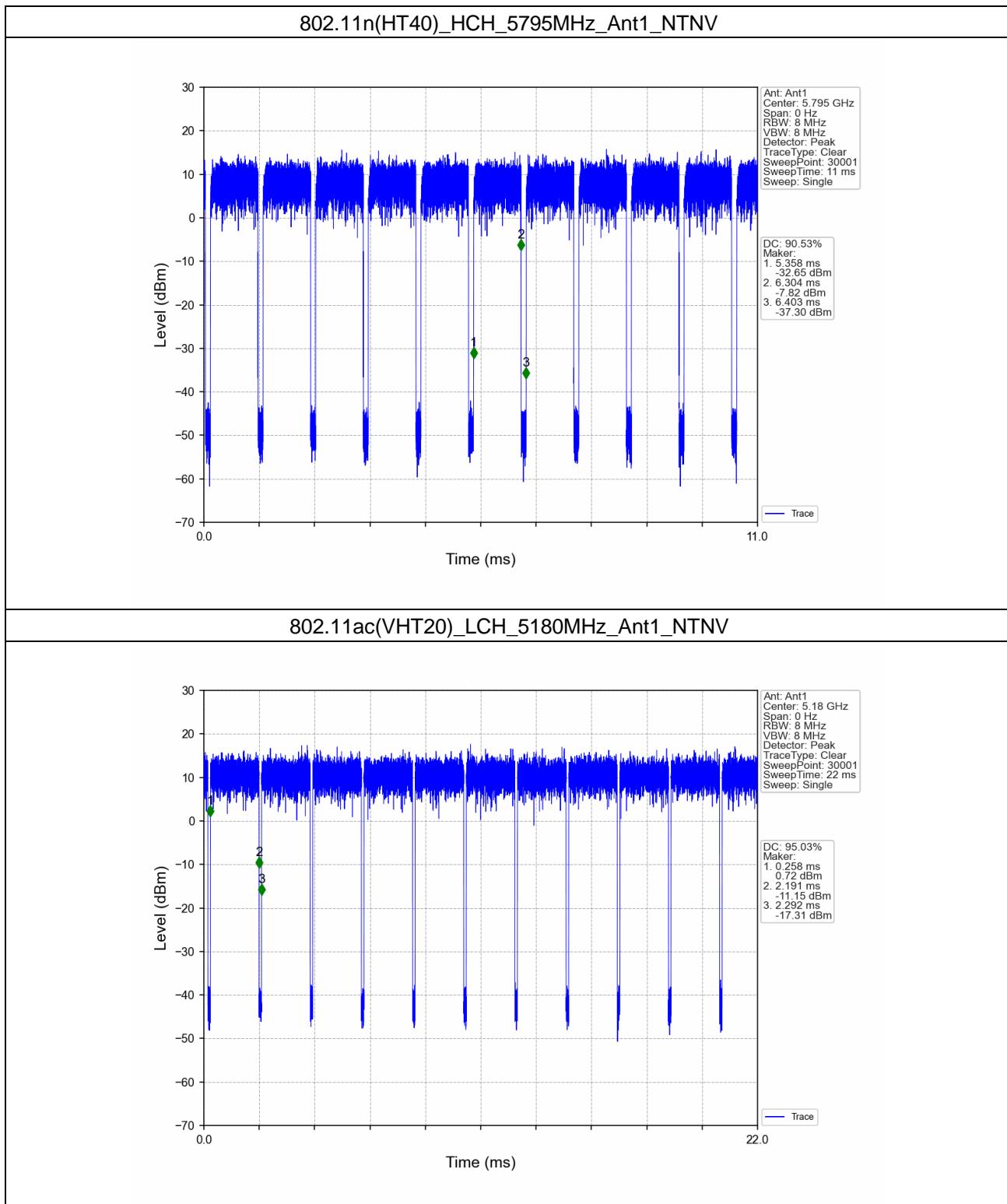
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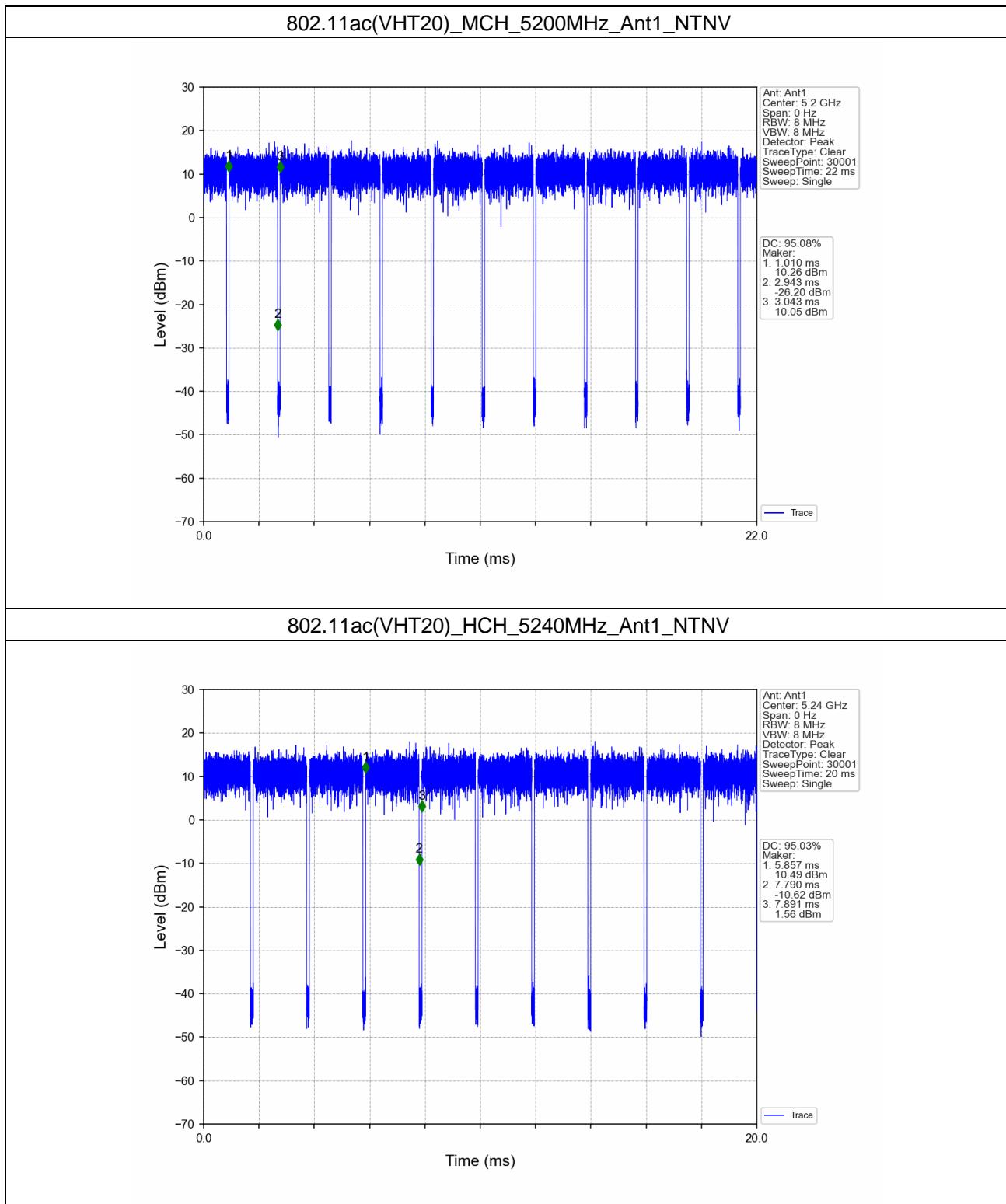


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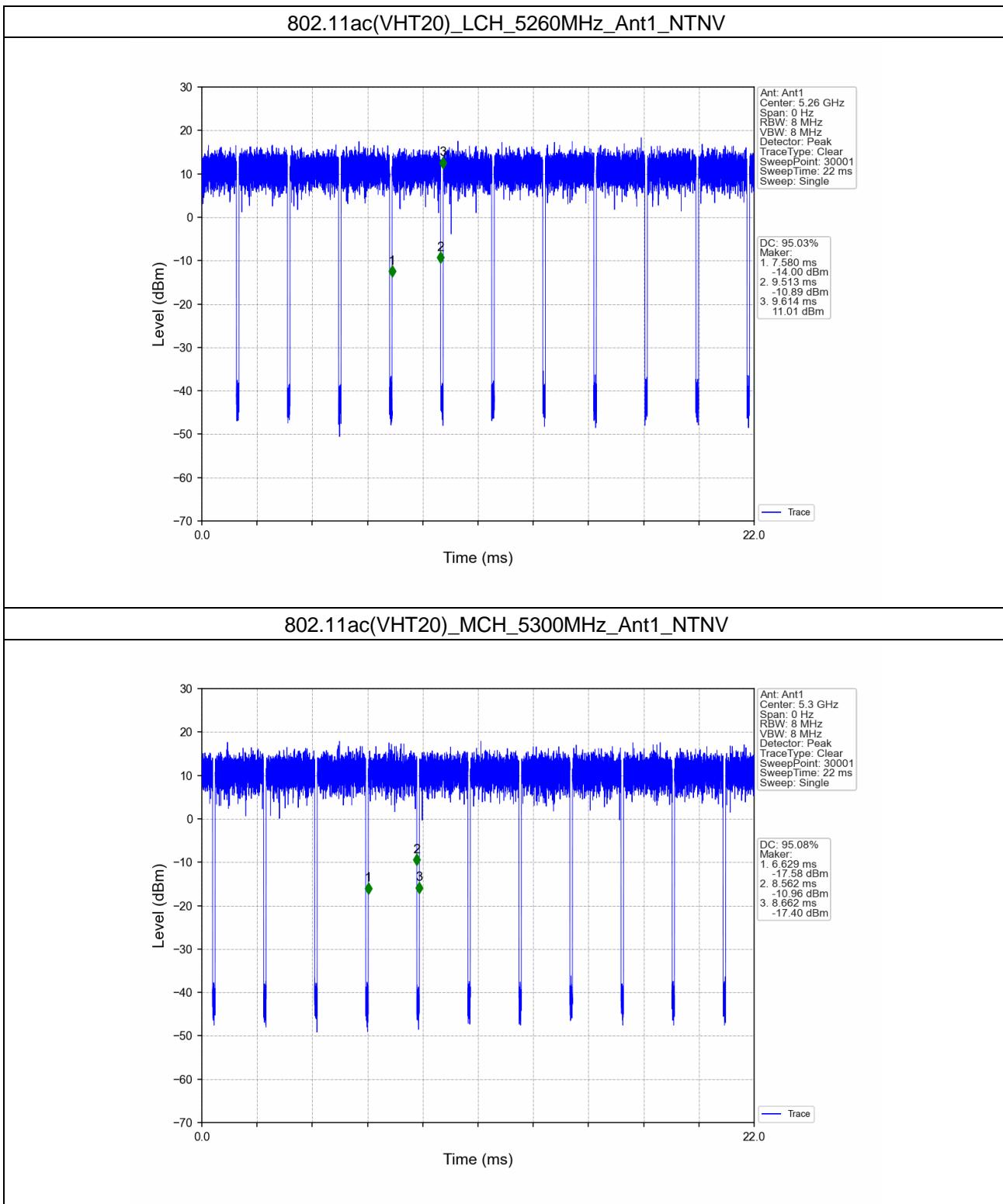
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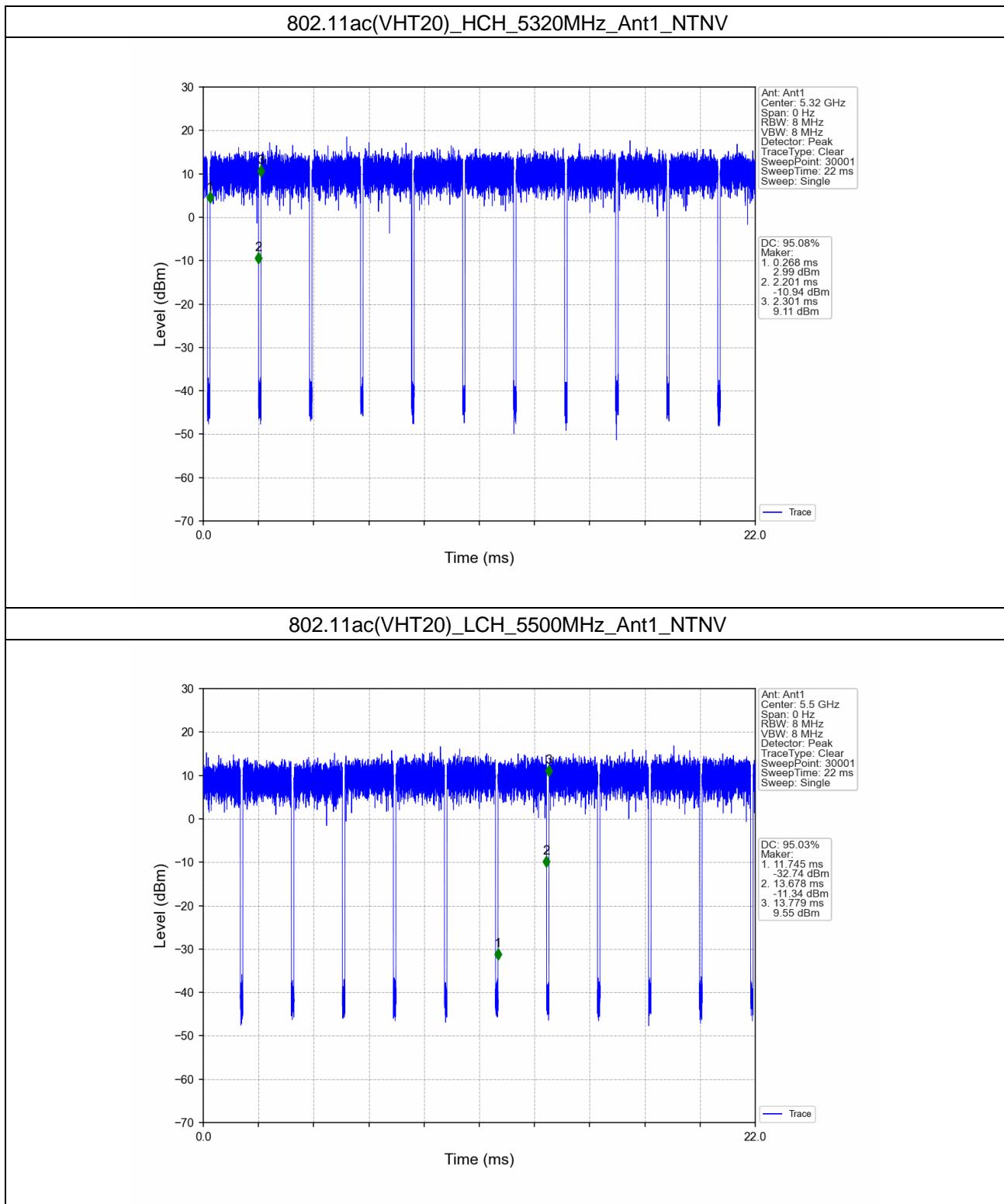


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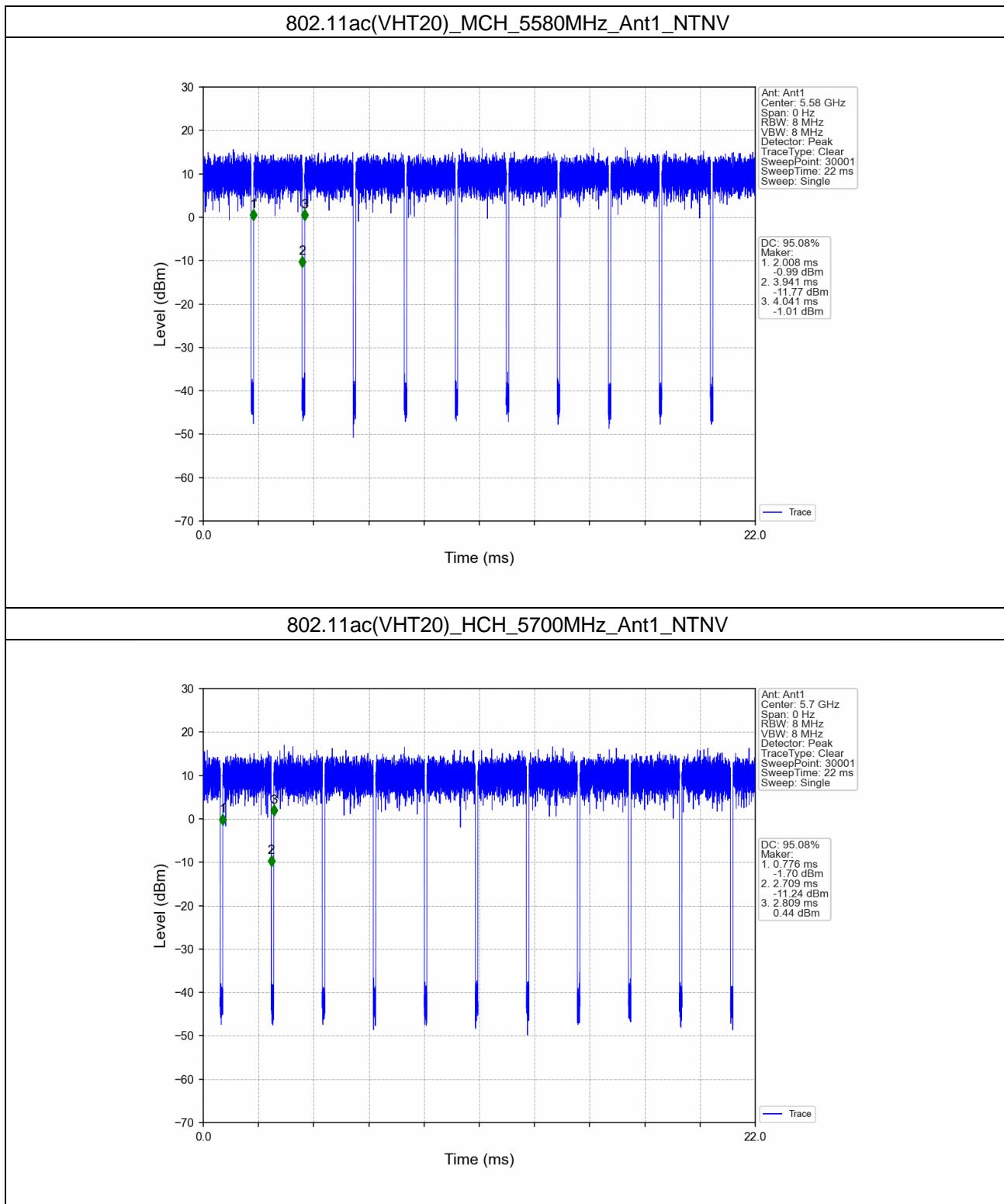




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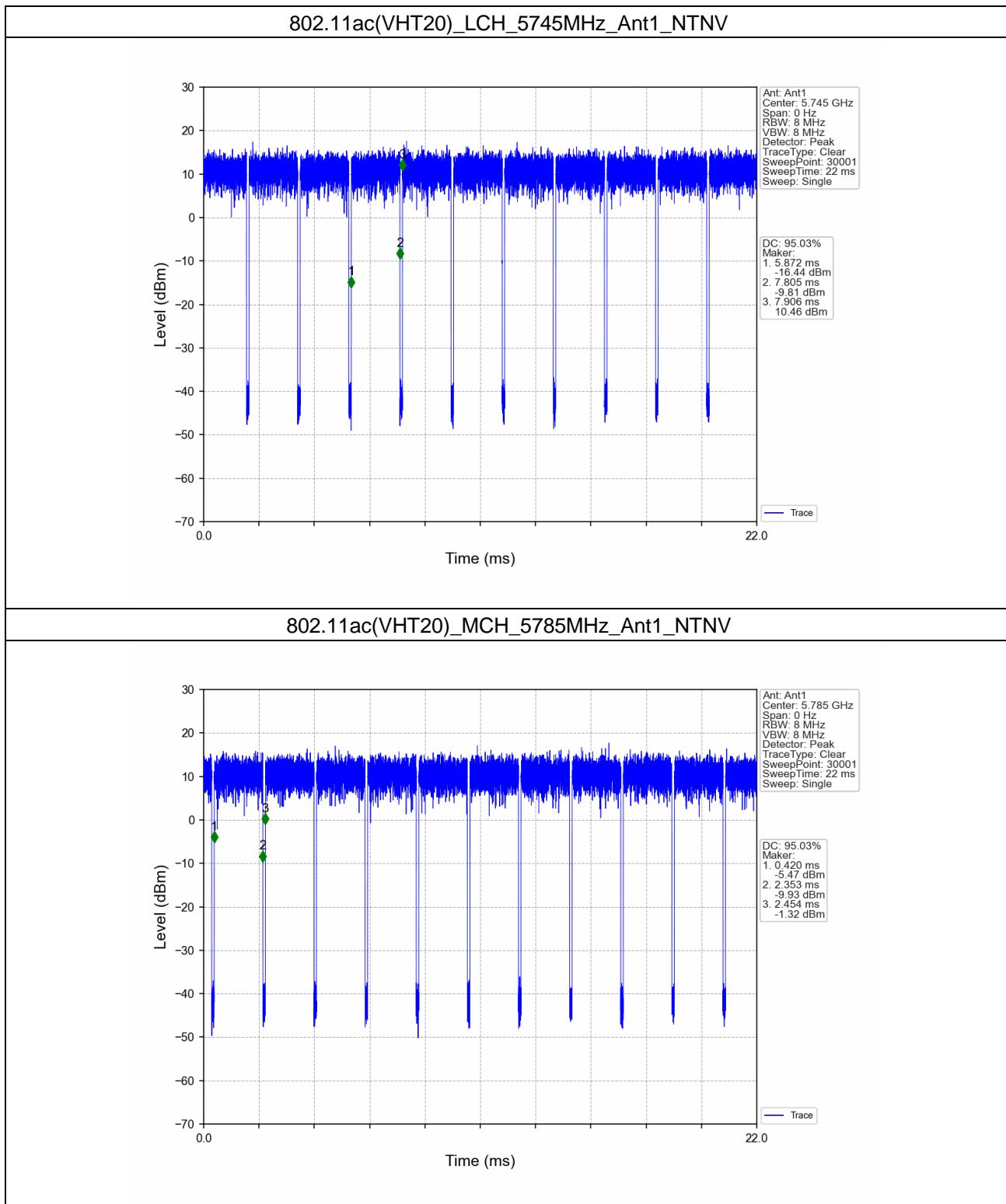
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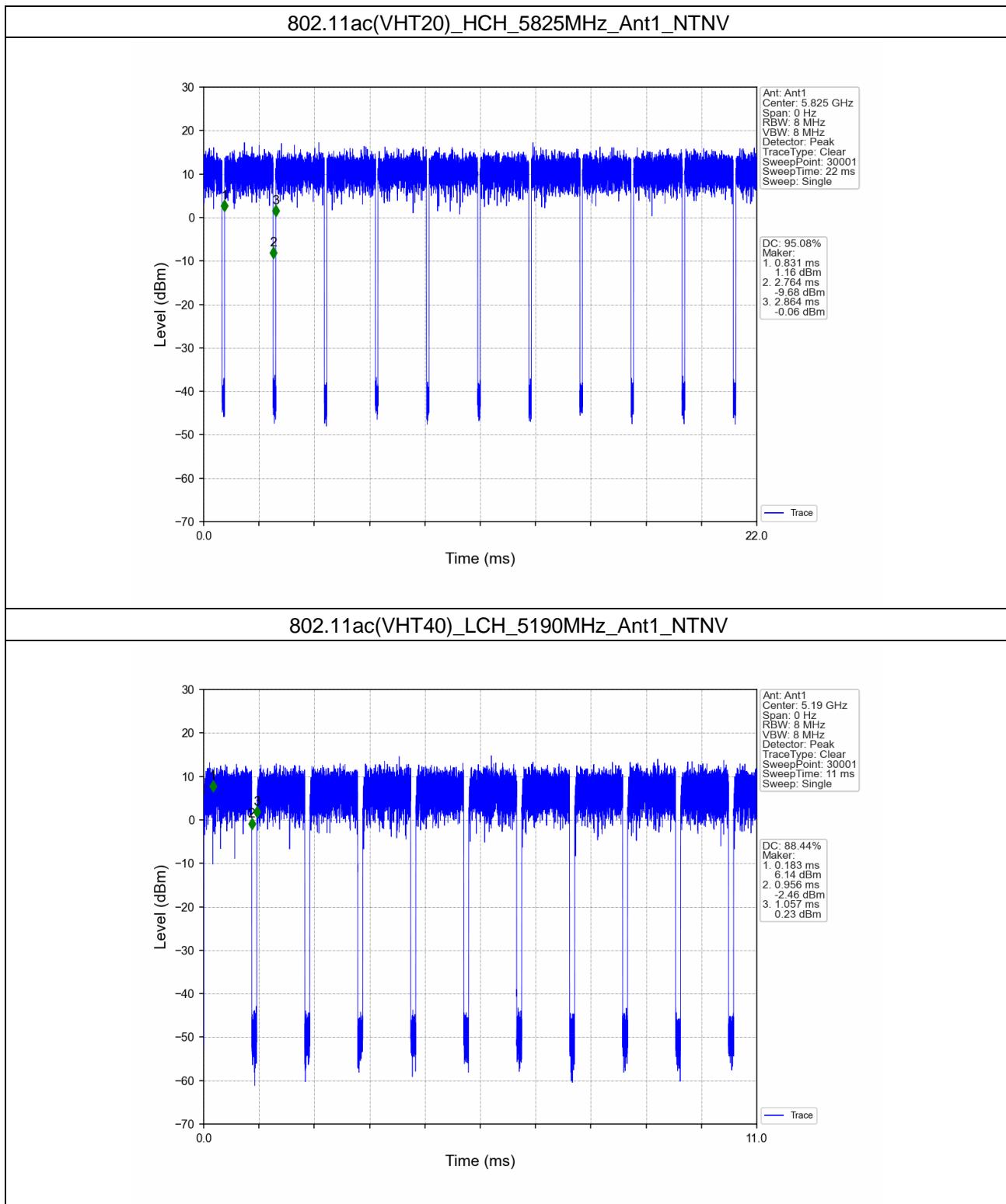
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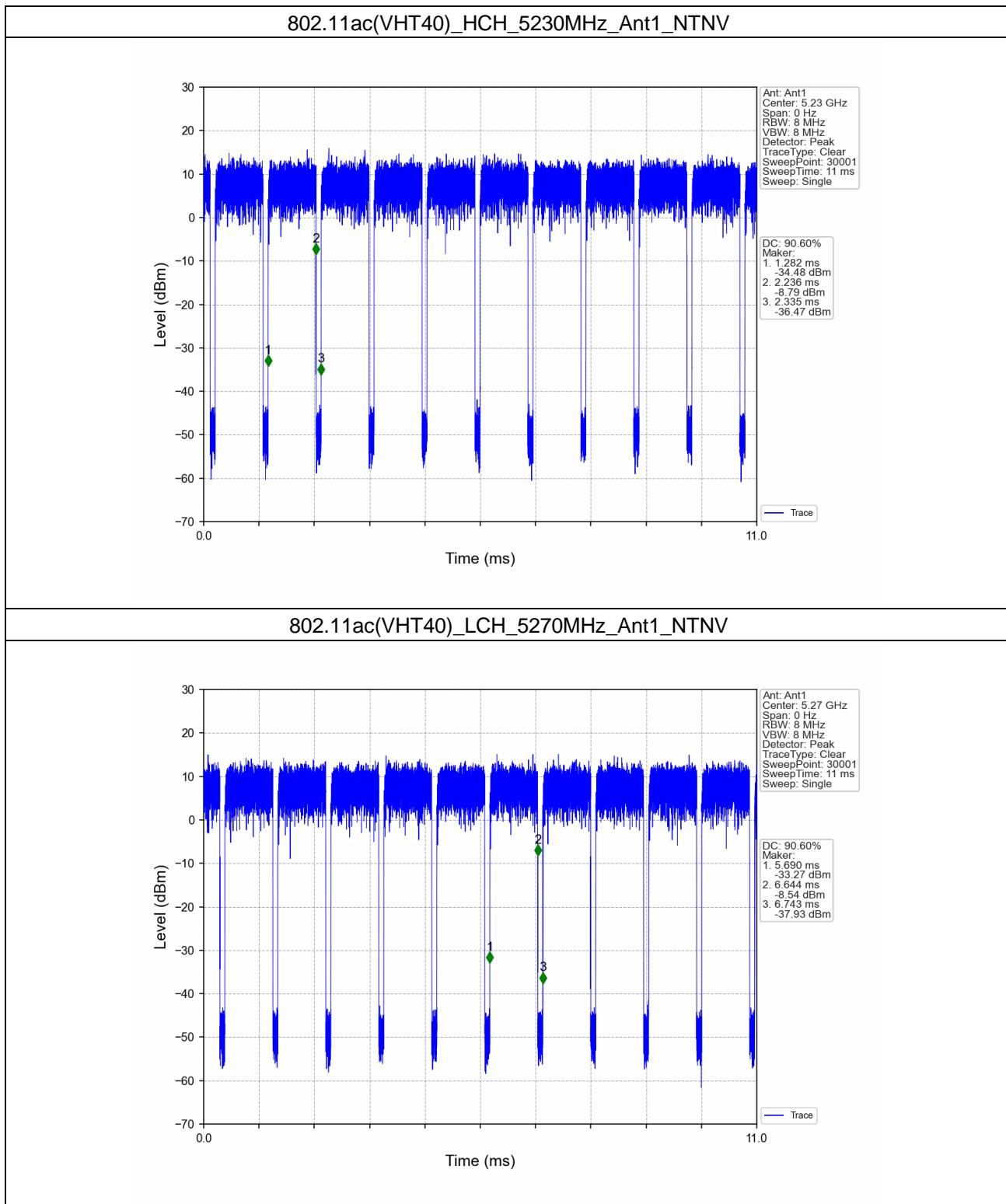
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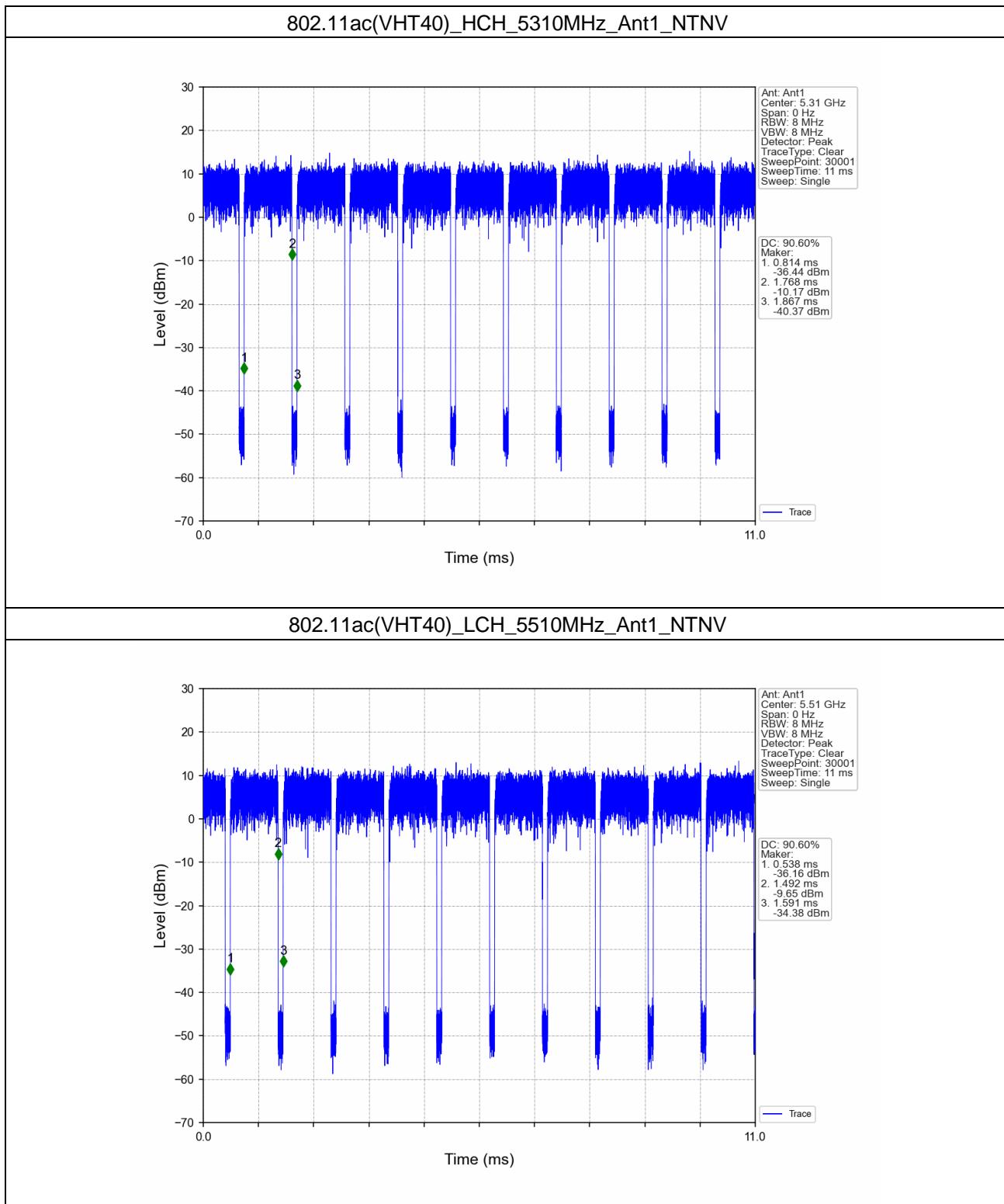
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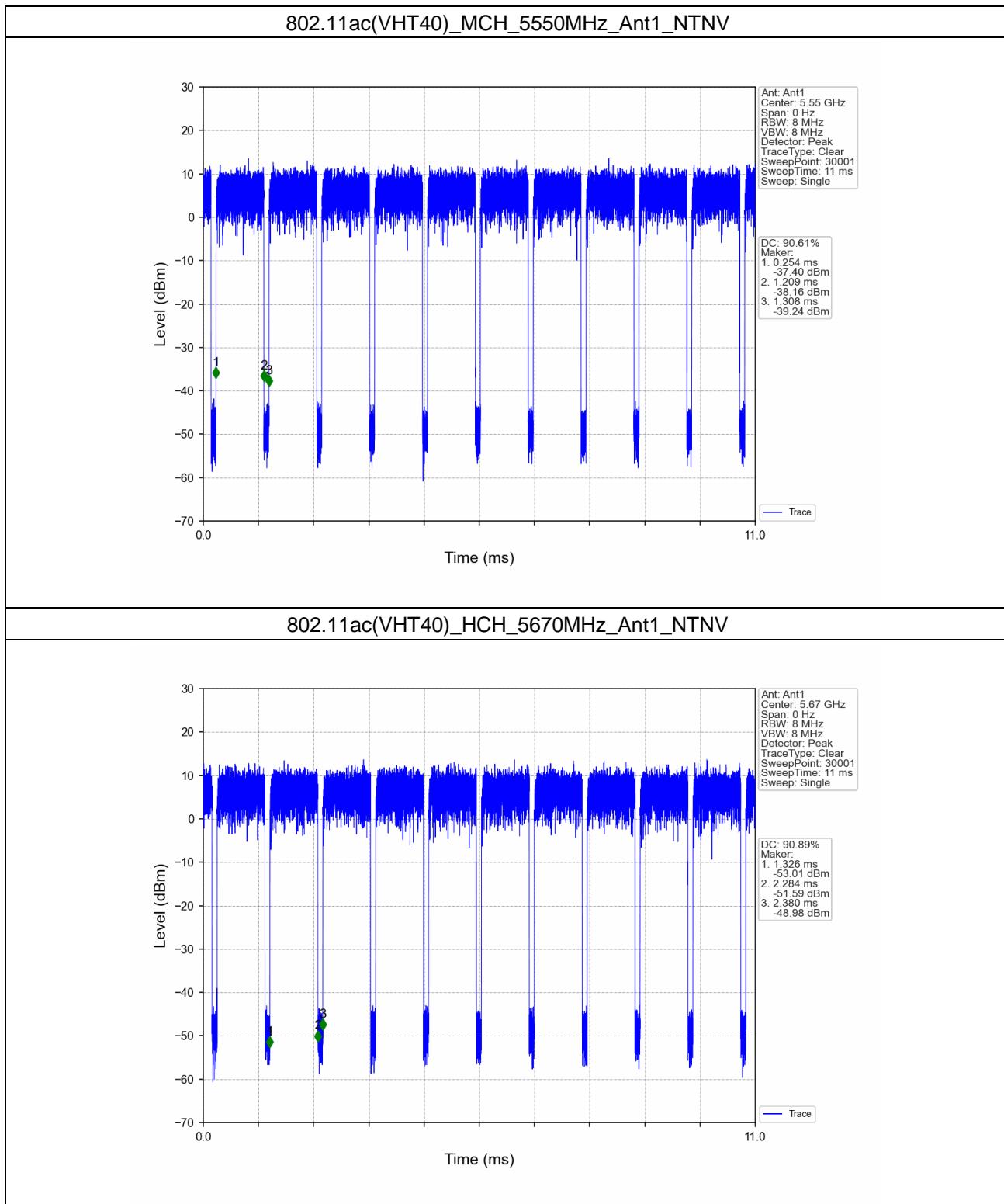
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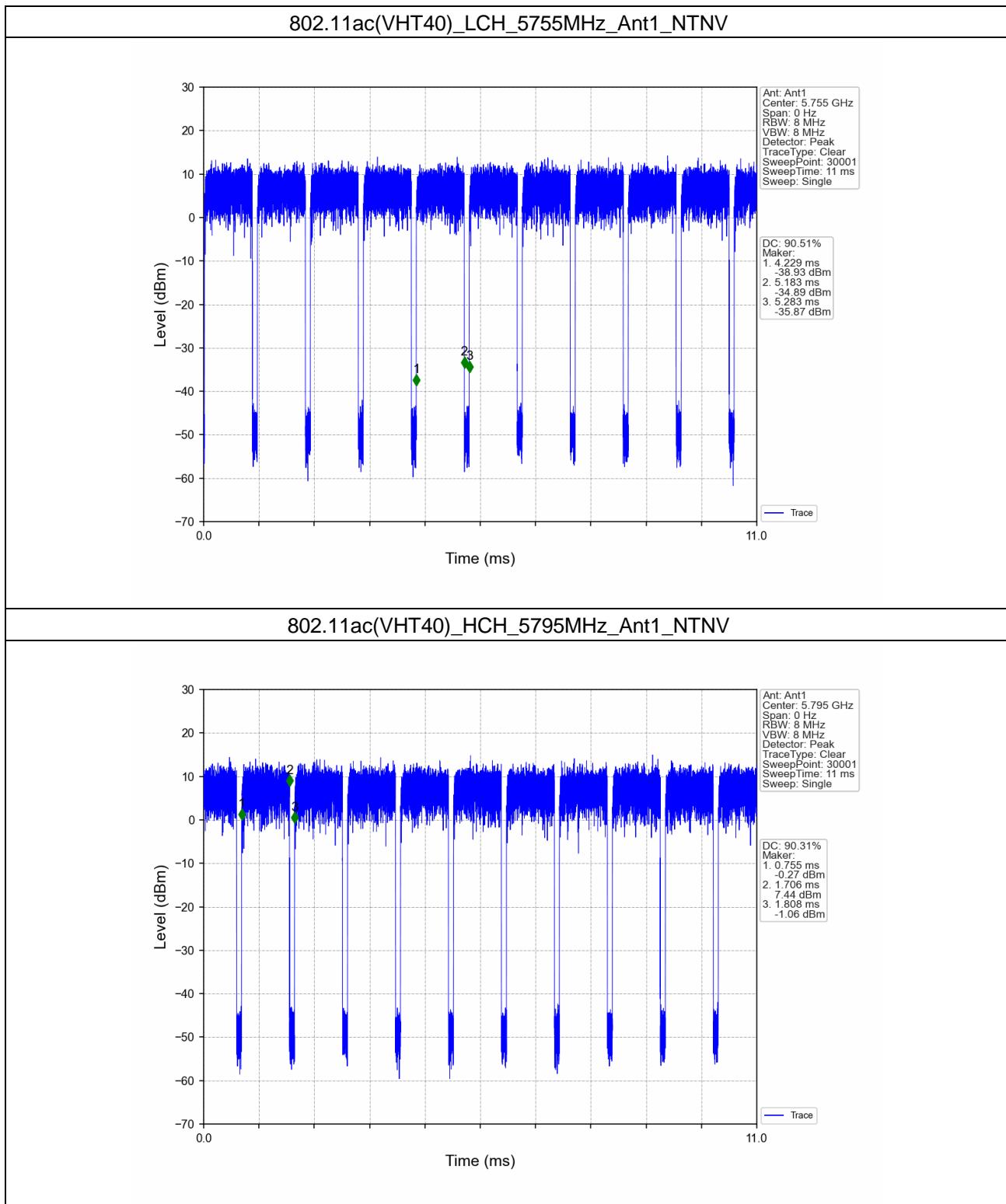
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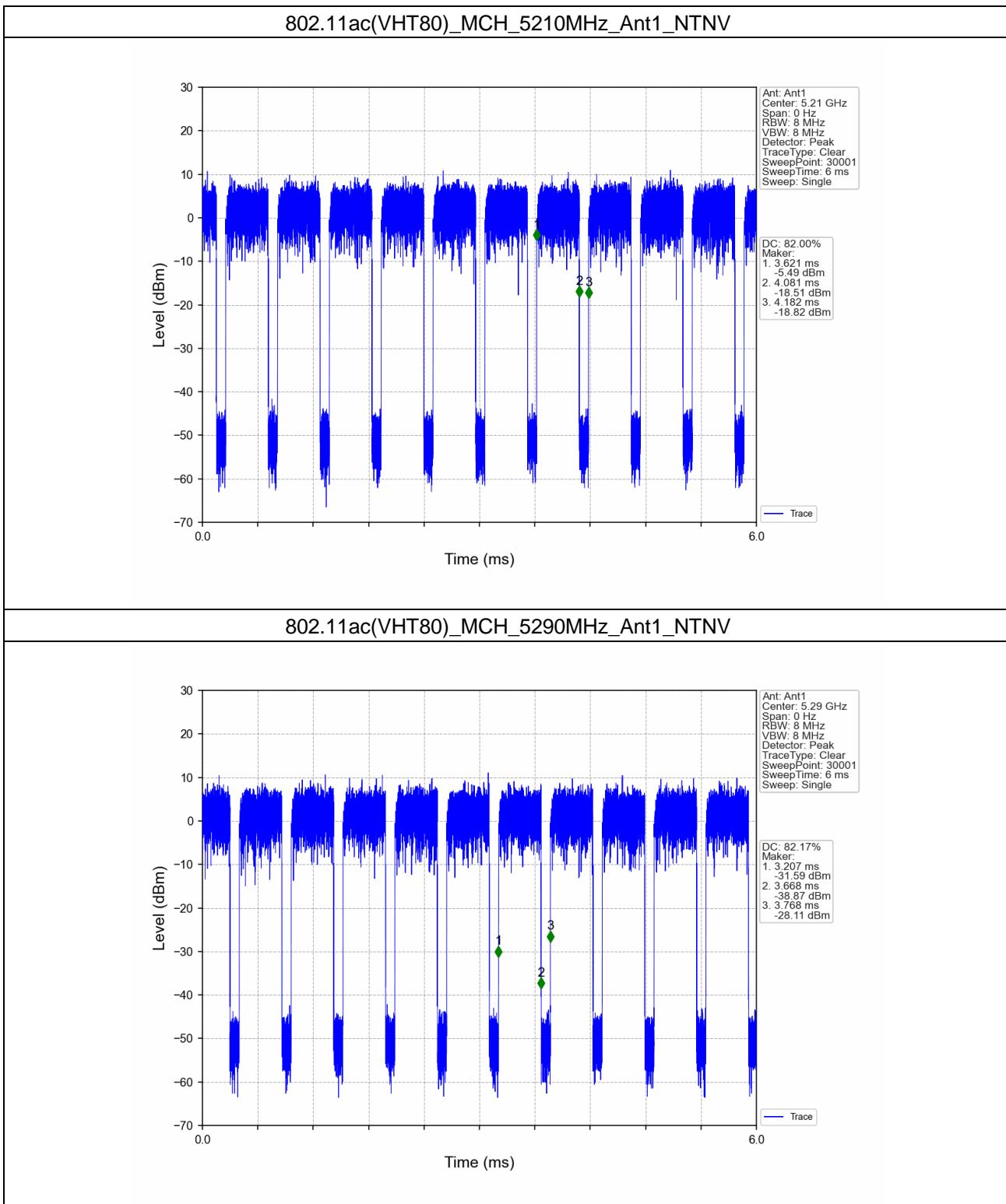
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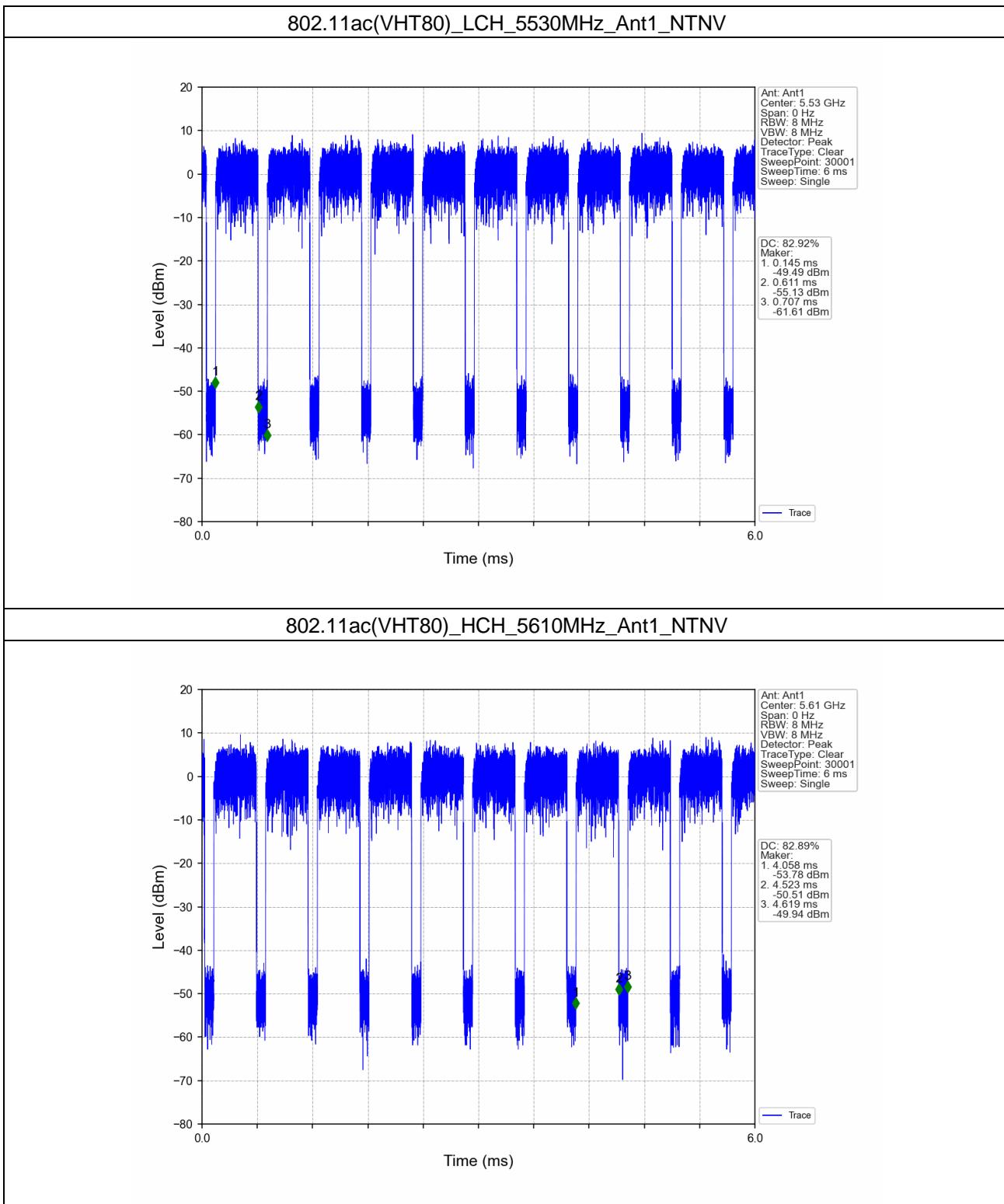
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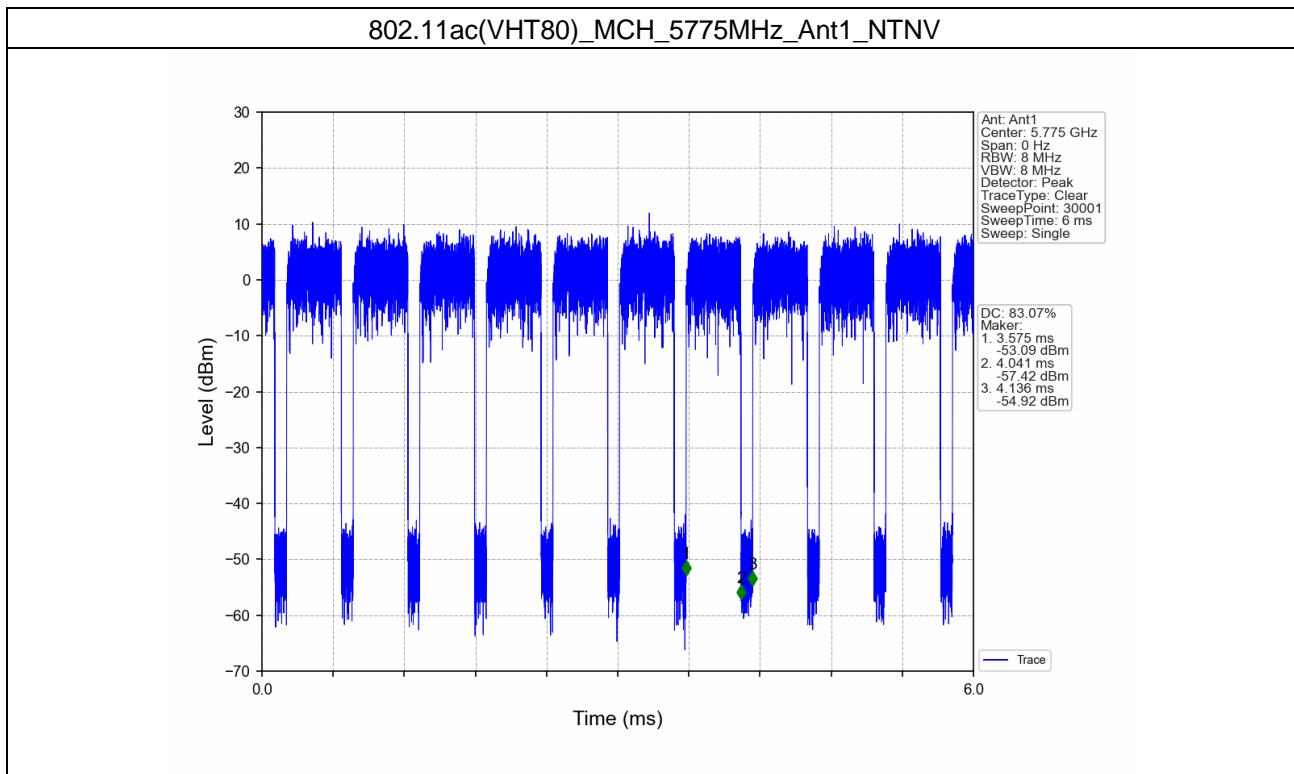
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2. Bandwidth

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	17.742	Pass
		5200	1	17.752	Pass
		5240	1	17.741	Pass
		5260	1	17.797	Pass
		5300	1	17.811	Pass
		5320	1	17.760	Pass
		5500	1	17.727	Pass
		5580	1	17.673	Pass
		5700	1	17.758	Pass
		5745	1	17.695	Pass
		5785	1	17.704	Pass
		5825	1	17.803	Pass
802.11n (HT20)	SISO	5180	1	18.683	Pass
		5200	1	18.668	Pass
		5240	1	18.664	Pass
		5260	1	18.620	Pass
		5300	1	18.567	Pass
		5320	1	18.624	Pass
		5500	1	18.619	Pass
		5580	1	18.544	Pass
		5700	1	18.596	Pass
		5745	1	18.700	Pass
		5785	1	18.735	Pass
		5825	1	18.653	Pass
802.11n (HT40)	SISO	5190	1	36.366	Pass
		5230	1	36.442	Pass
		5270	1	36.478	Pass
		5310	1	36.437	Pass
		5510	1	36.475	Pass
		5550	1	36.405	Pass
		5670	1	36.440	Pass

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		5755	1	36.447	Pass
		5795	1	36.483	Pass
802.11ac (VHT20)	SISO	5180	1	18.717	Pass
		5200	1	18.687	Pass
		5240	1	18.538	Pass
		5260	1	18.703	Pass
		5300	1	18.605	Pass
		5320	1	18.688	Pass
		5500	1	18.667	Pass
		5580	1	18.592	Pass
		5700	1	18.651	Pass
		5745	1	18.655	Pass
		5785	1	18.646	Pass
		5825	1	18.704	Pass
		5190	1	36.310	Pass
		5230	1	36.438	Pass
802.11ac (VHT40)	SISO	5270	1	36.387	Pass
		5310	1	36.423	Pass
		5510	1	36.447	Pass
		5550	1	36.326	Pass
		5670	1	36.379	Pass
		5755	1	36.455	Pass
		5795	1	36.410	Pass
		5210	1	75.517	Pass
		5290	1	75.538	Pass
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		5610	1	75.615	Pass
		5775	1	75.633	Pass

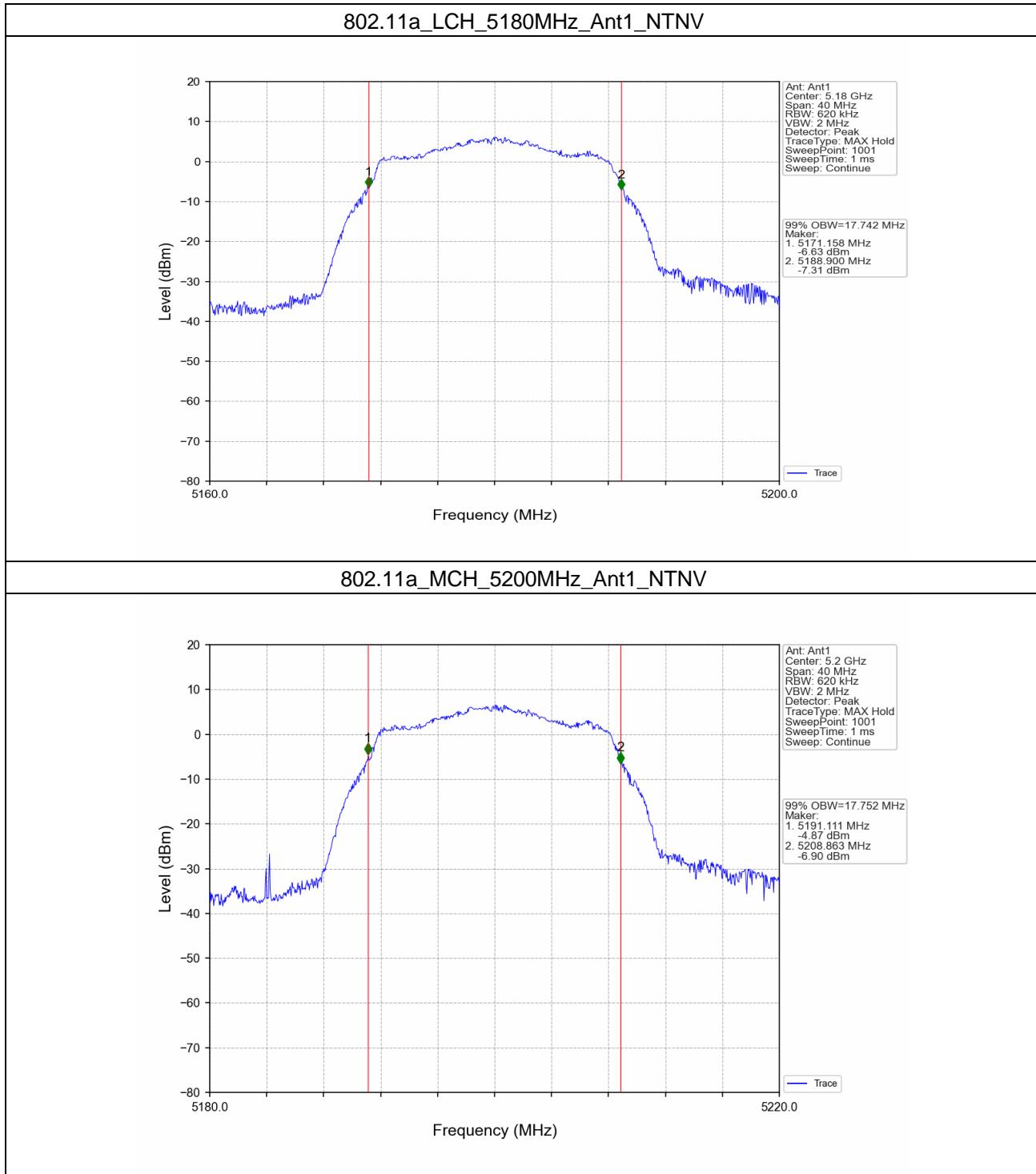
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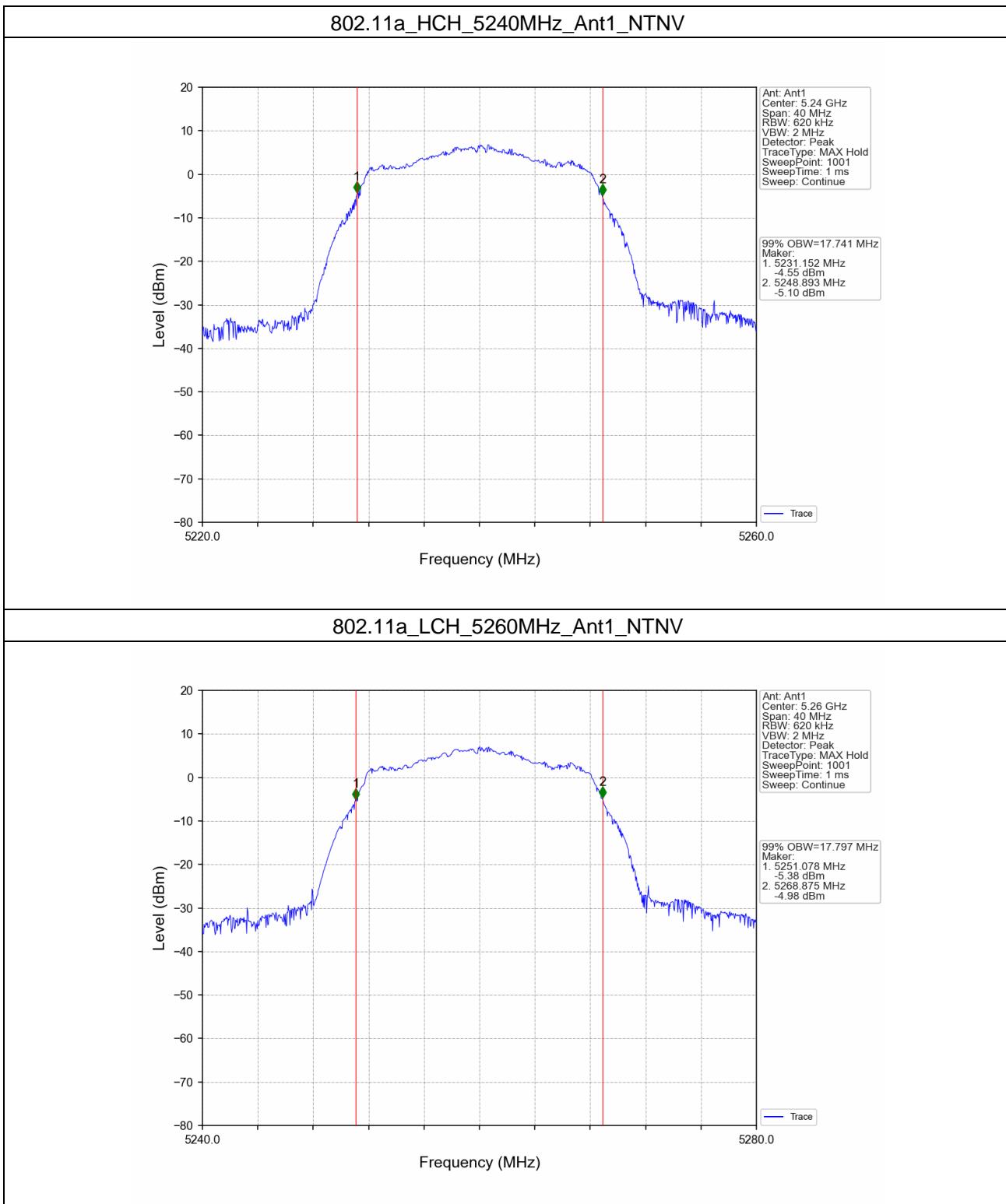
2.1.2 Test Graph



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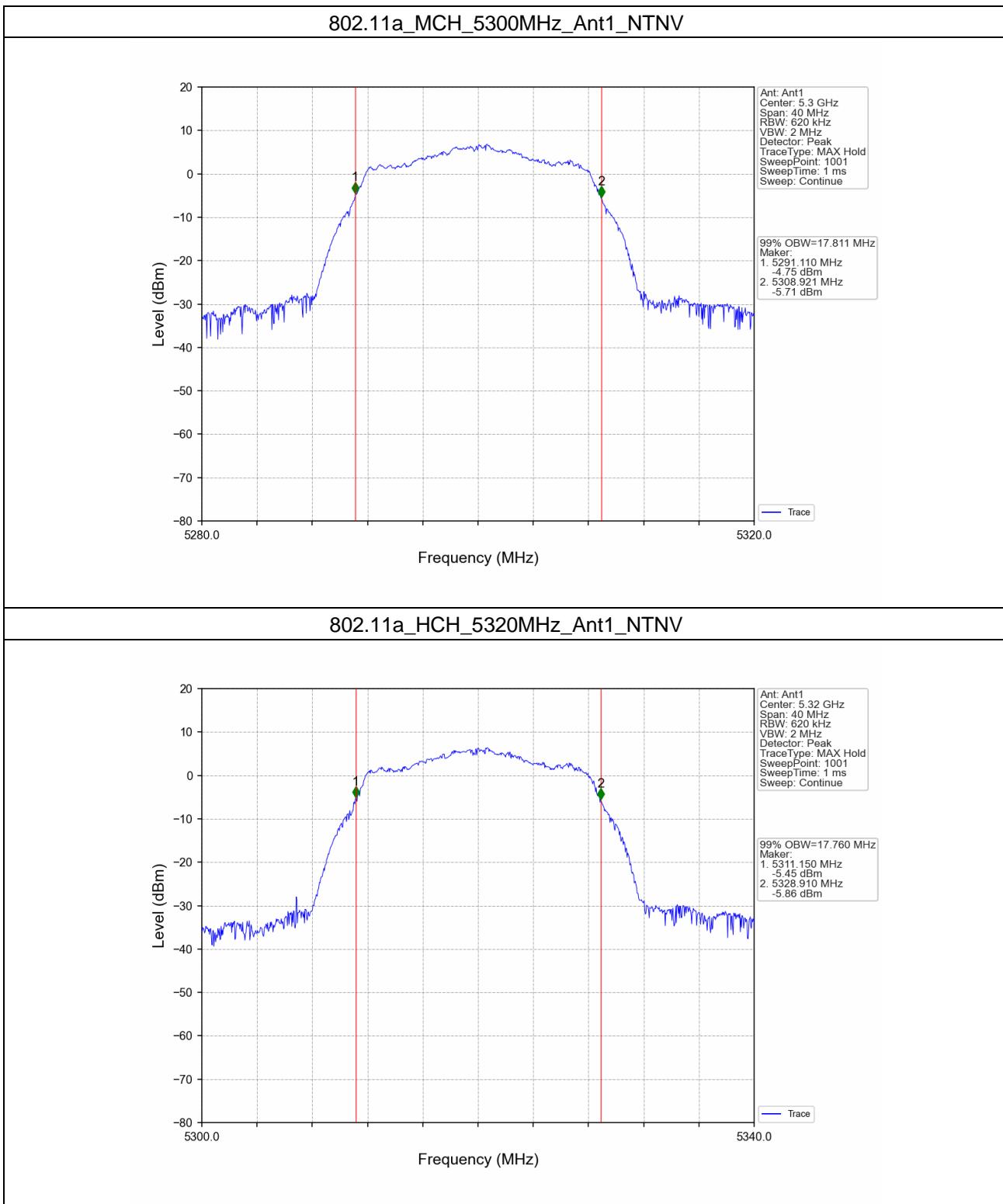
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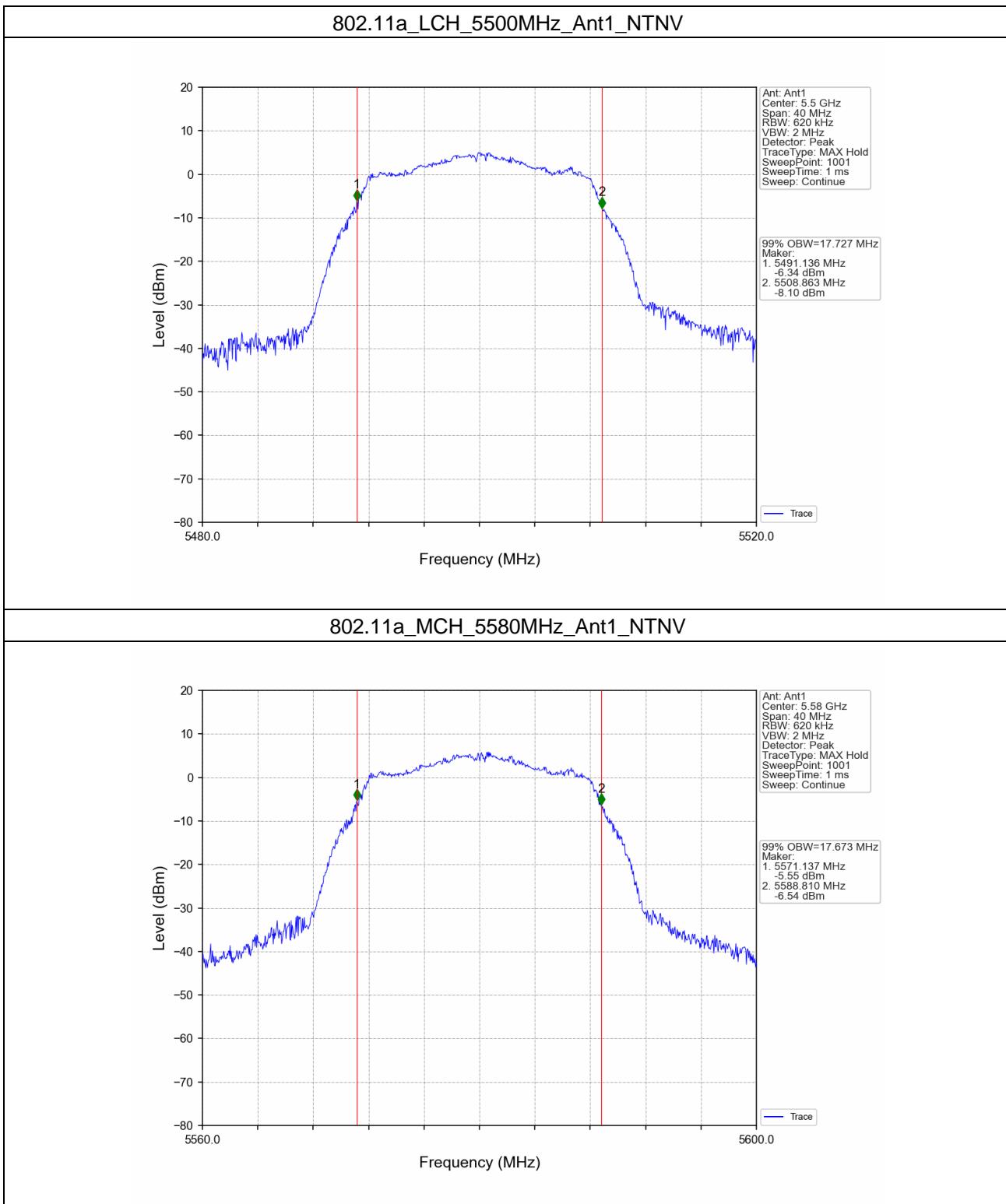
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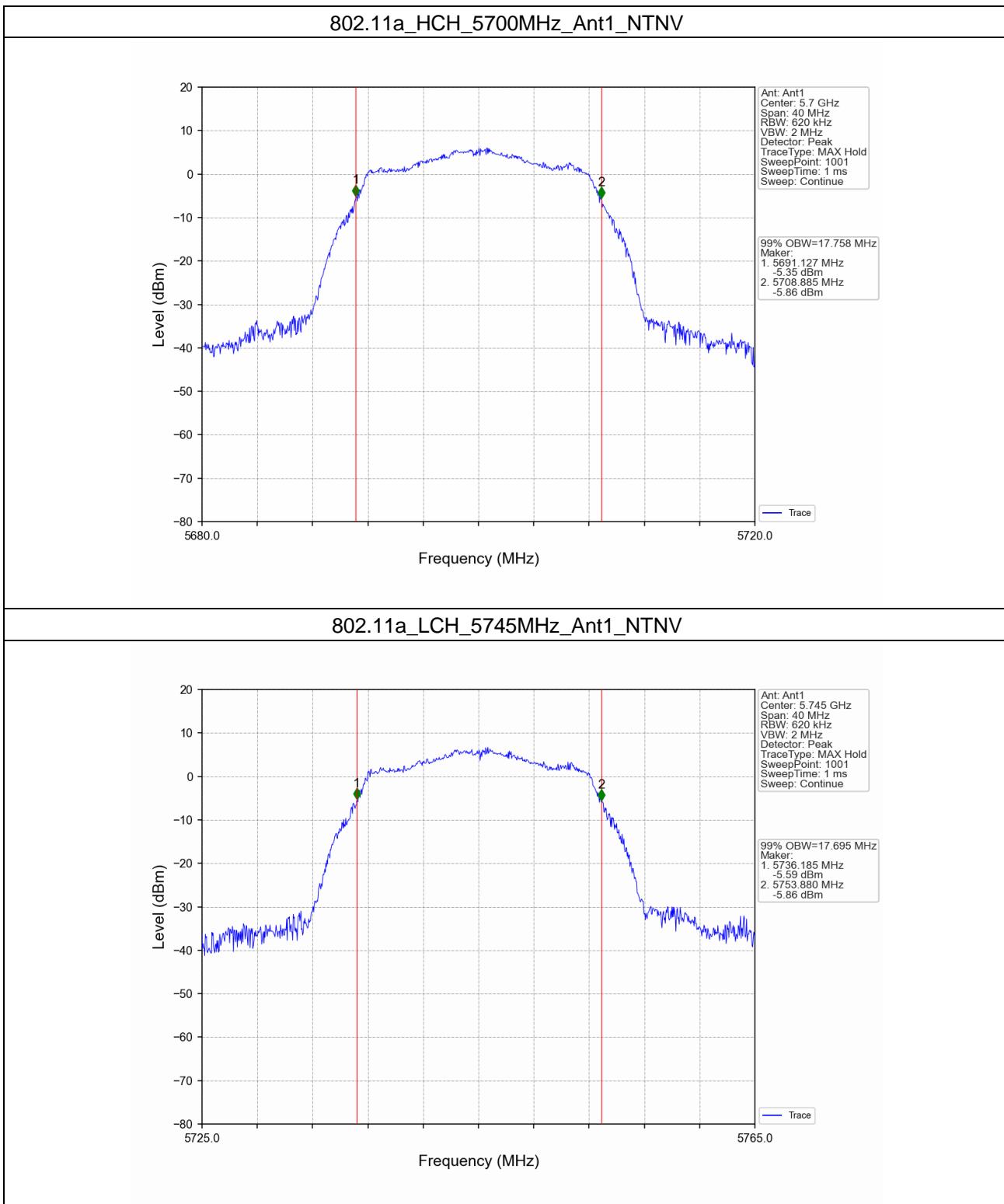


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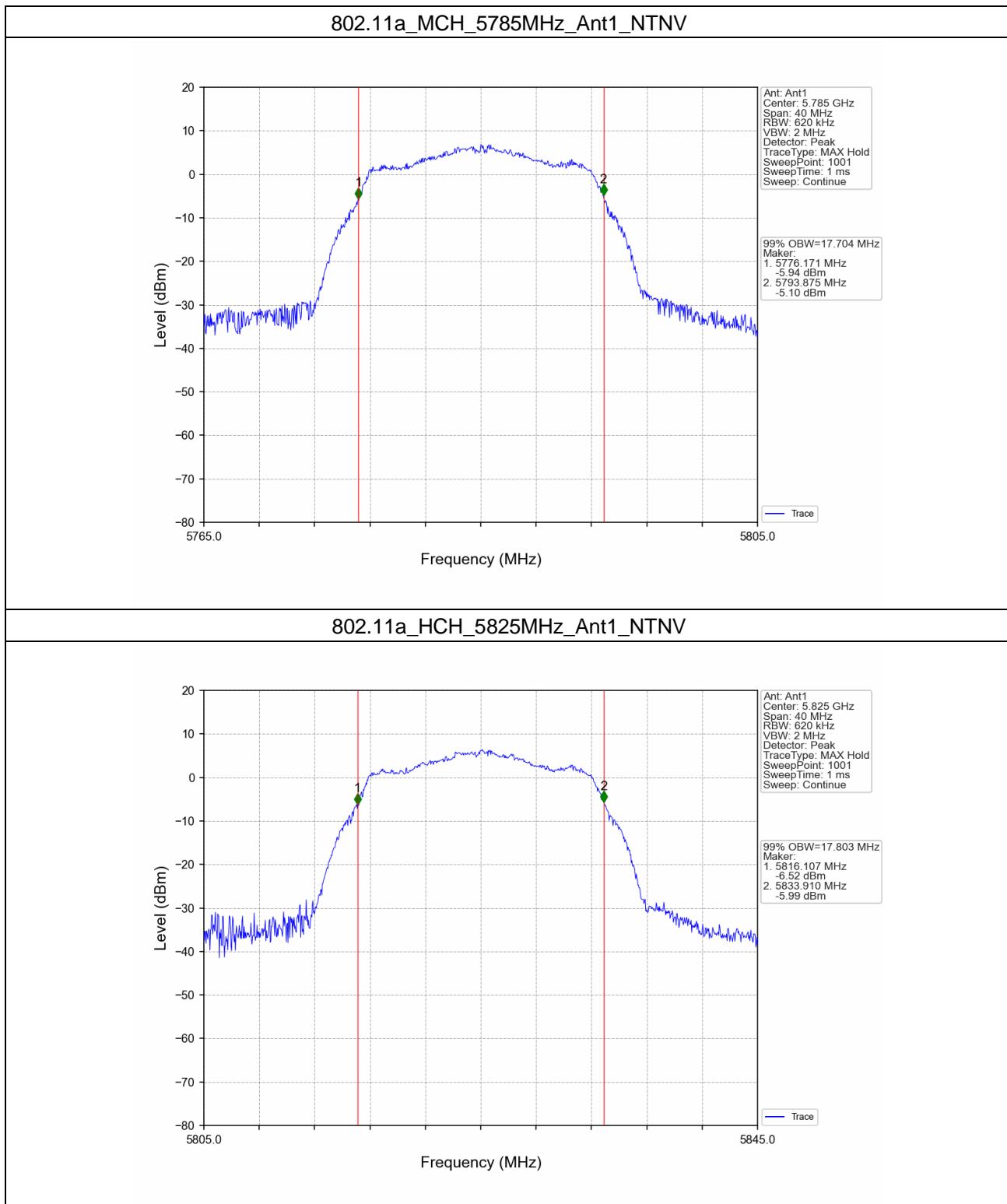
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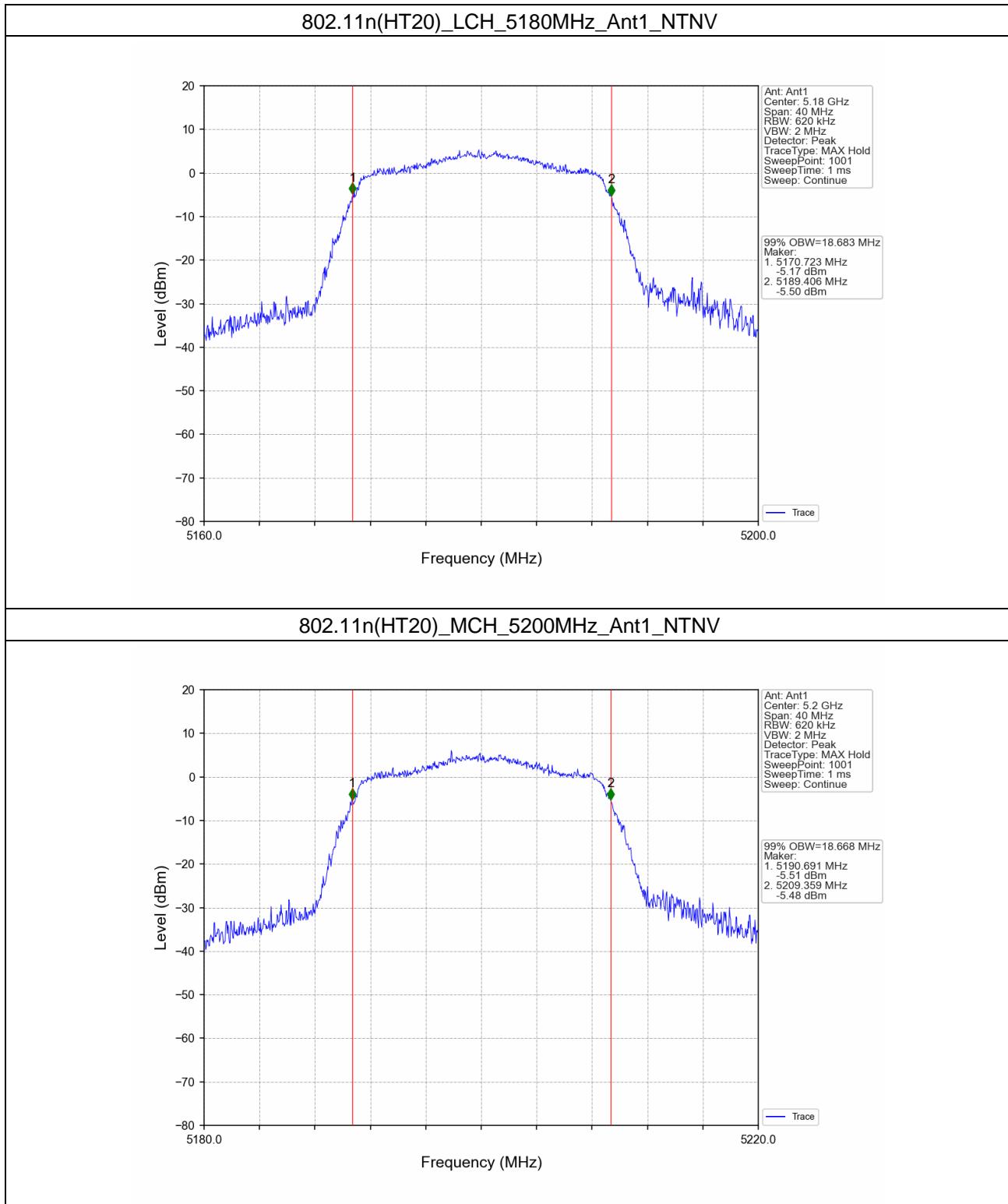
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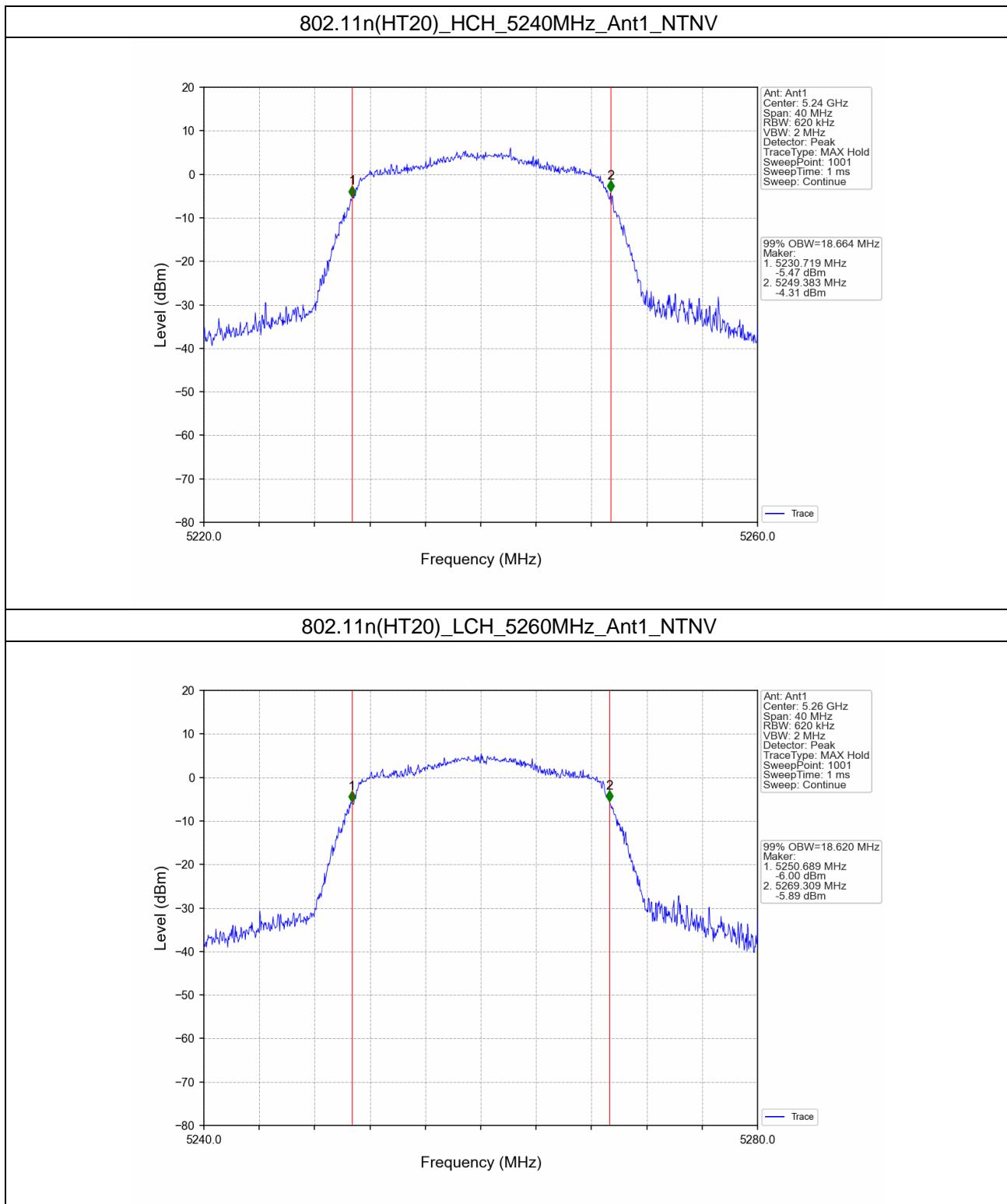
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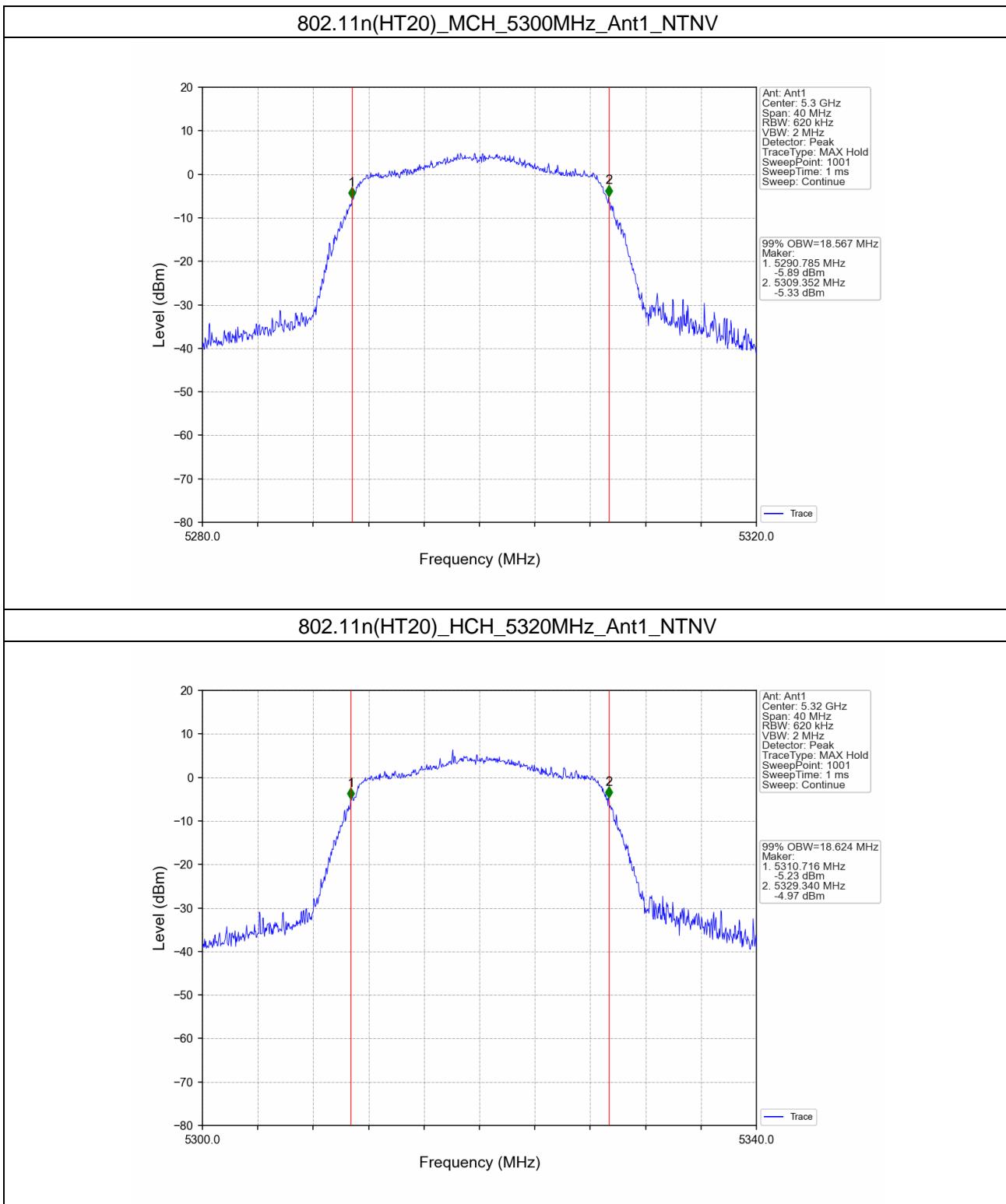


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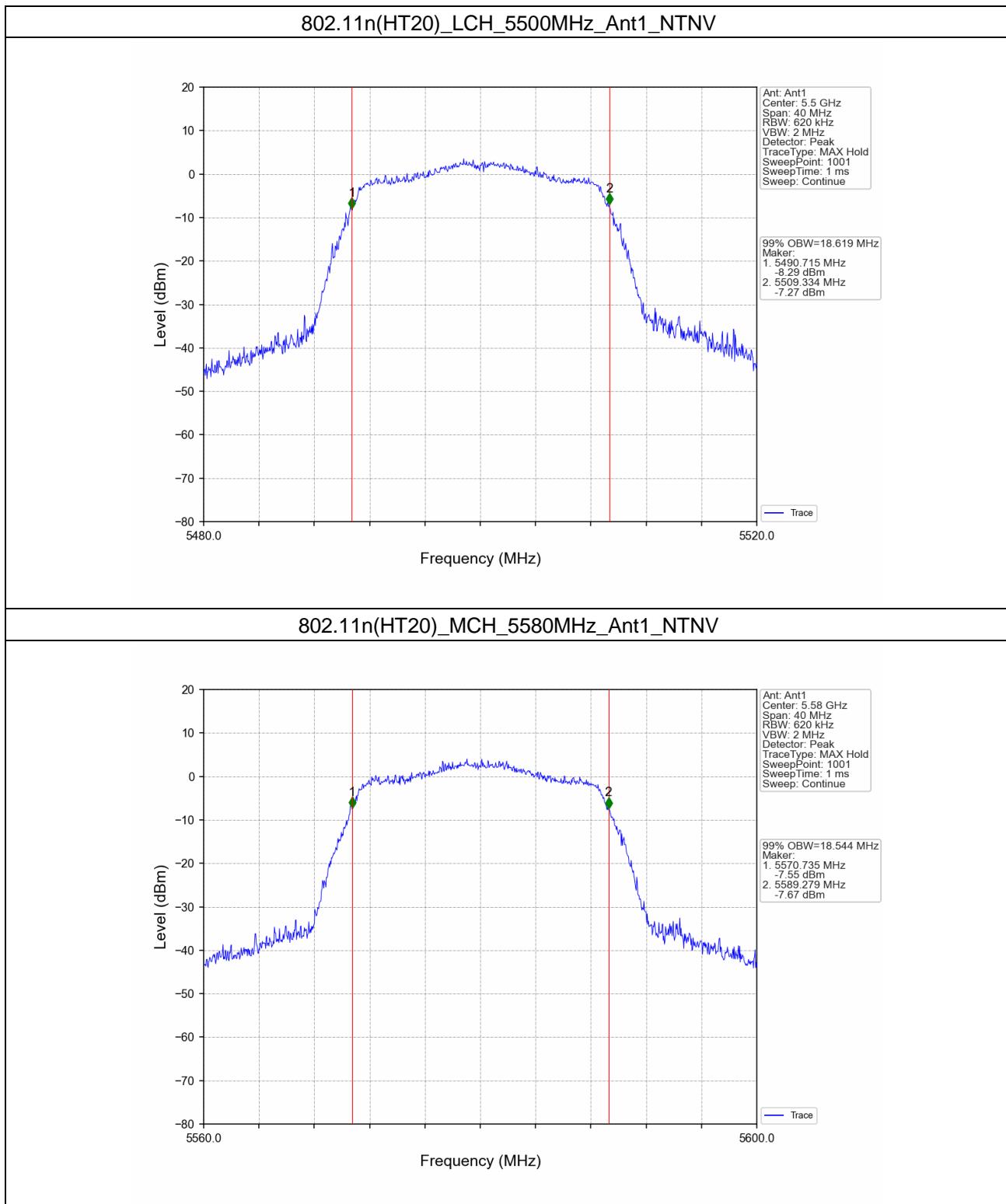


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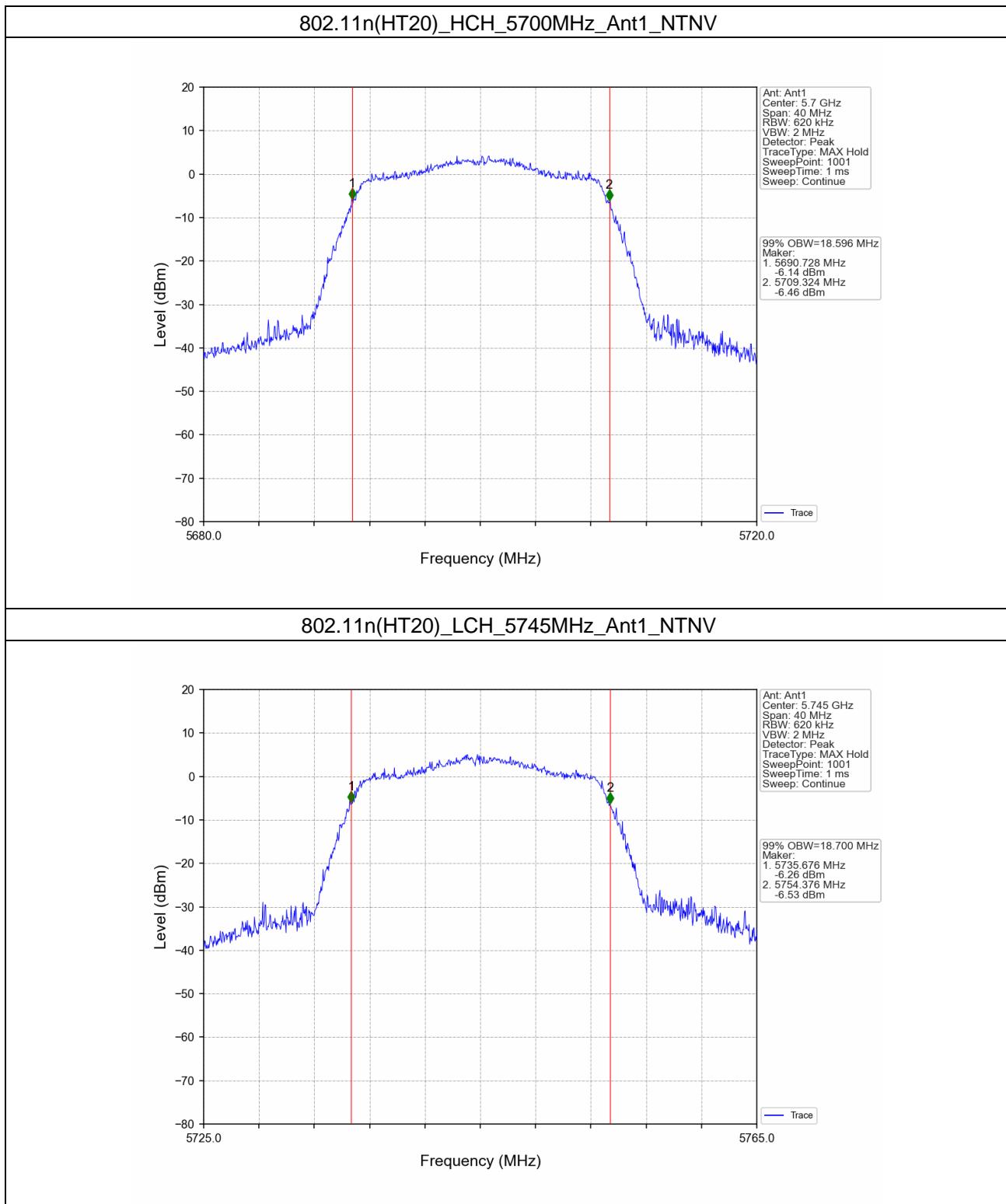
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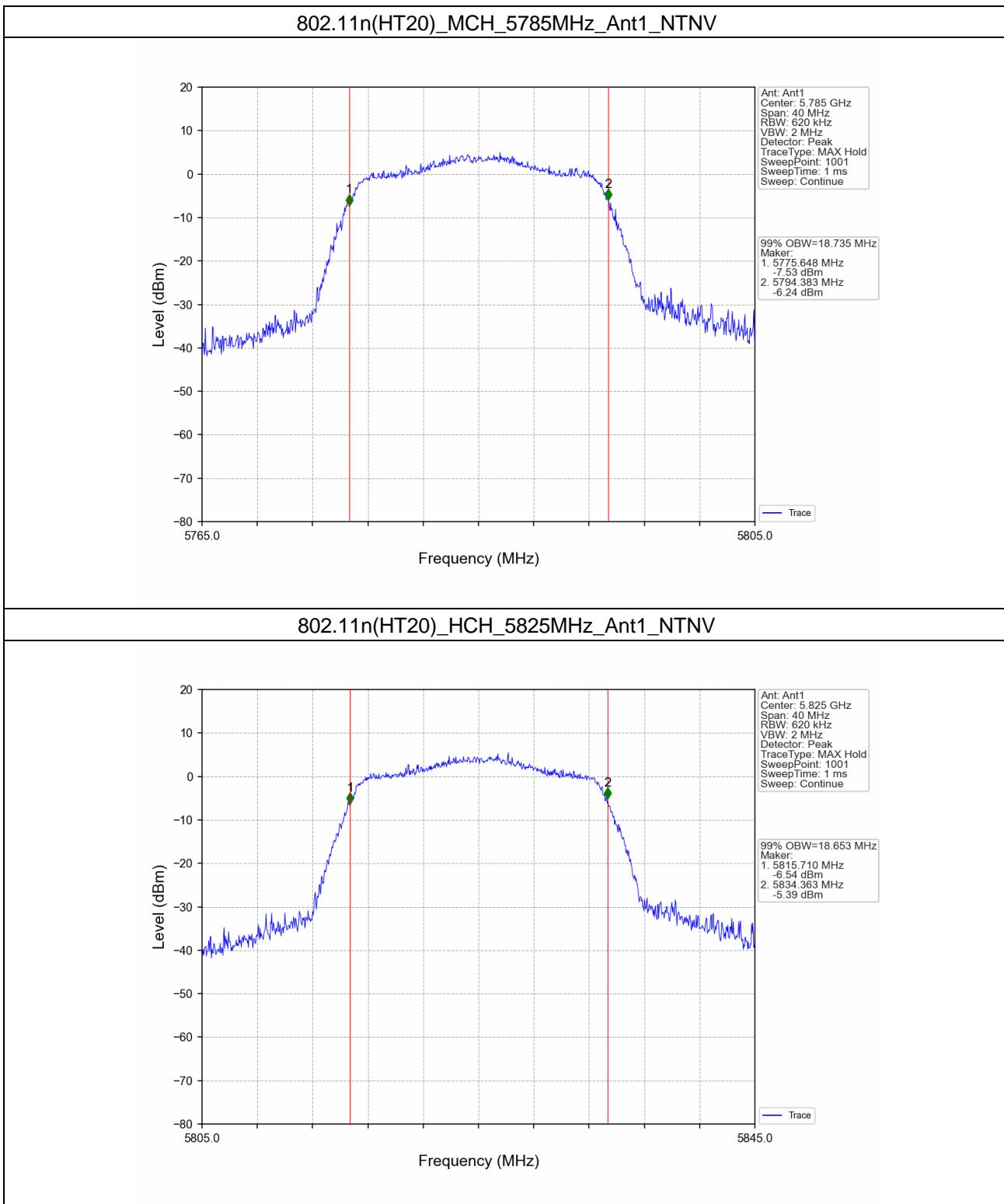
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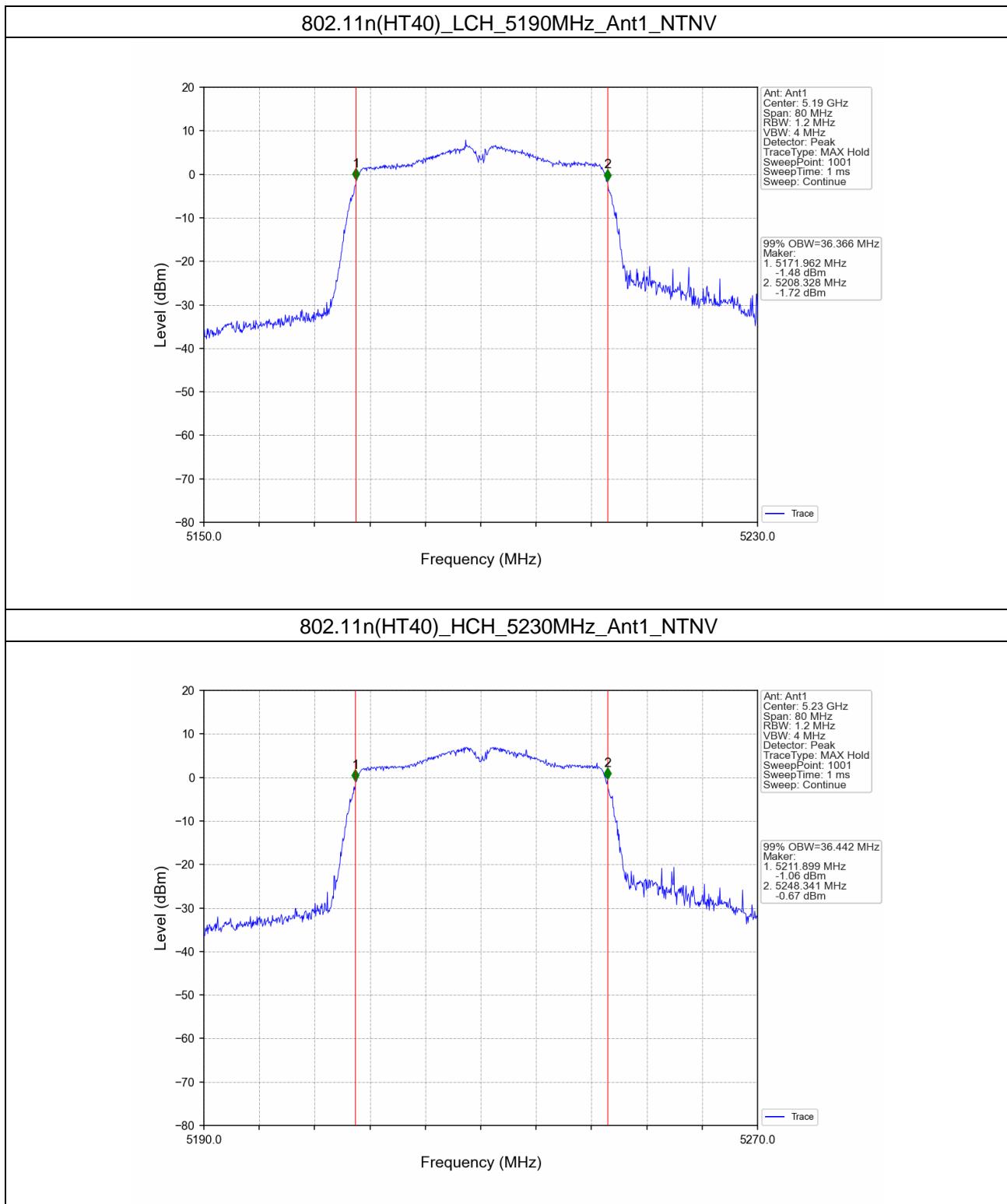


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