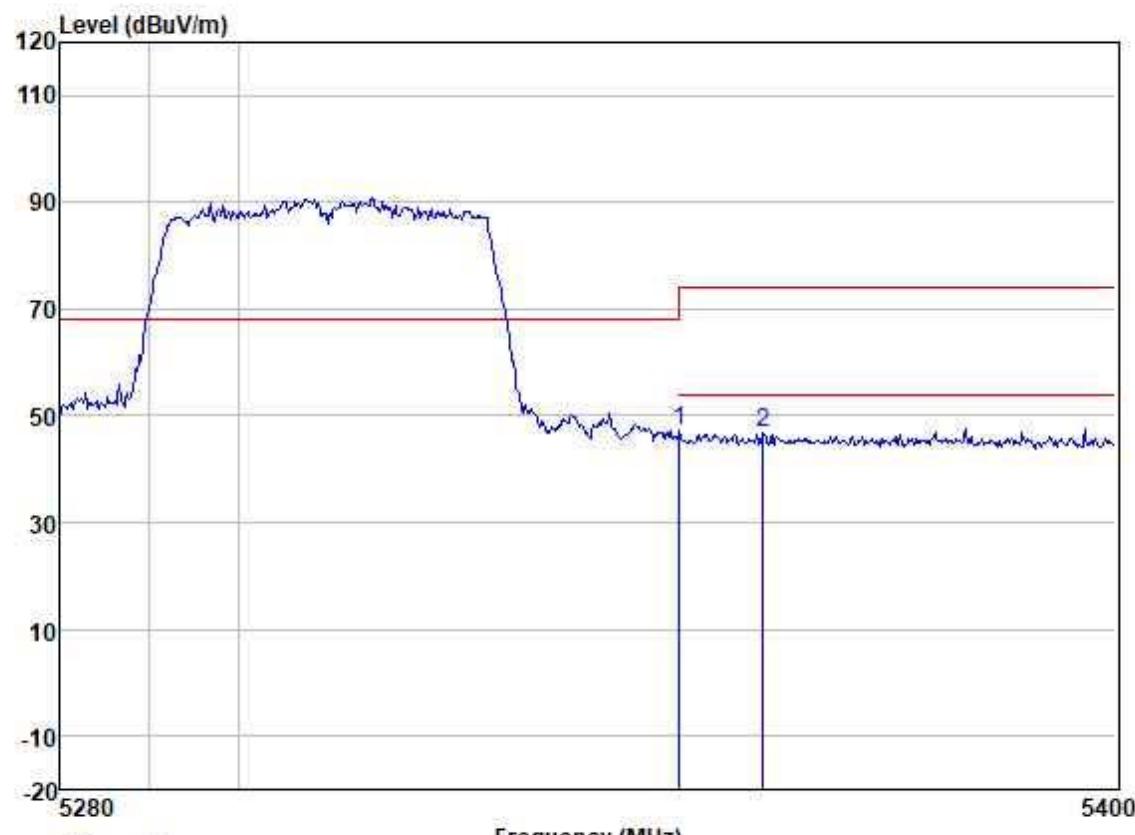


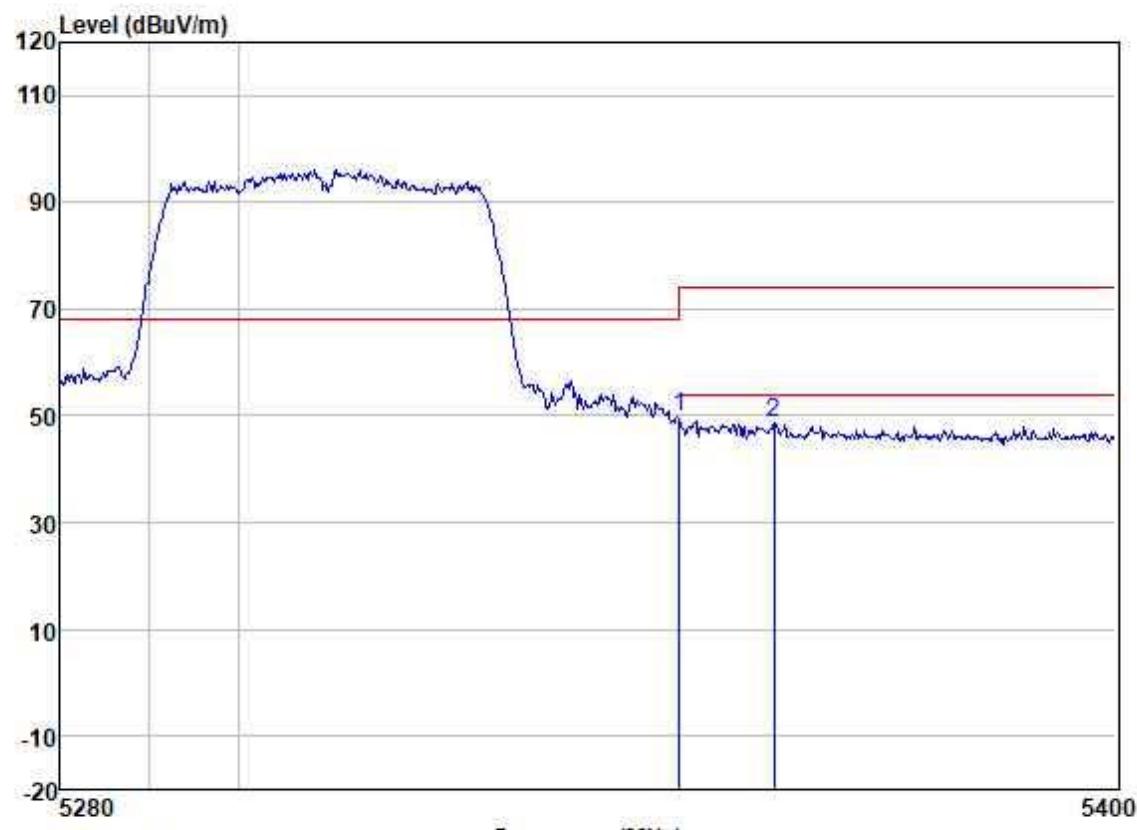
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Lane: (Discrete)	Frequency (MHz)									
	ReadAntenna Freq	Level Factor	Cable Loss Factor	Preamp Factor	Limit Level	Line Limit	Over Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5350.000	46.32	31.77	5.53	36.24	47.38	68.20	-20.82	VERTICAL	Peak
2	5359.620	45.73	31.78	5.55	36.24	46.82	74.00	-27.18	VERTICAL	Peak



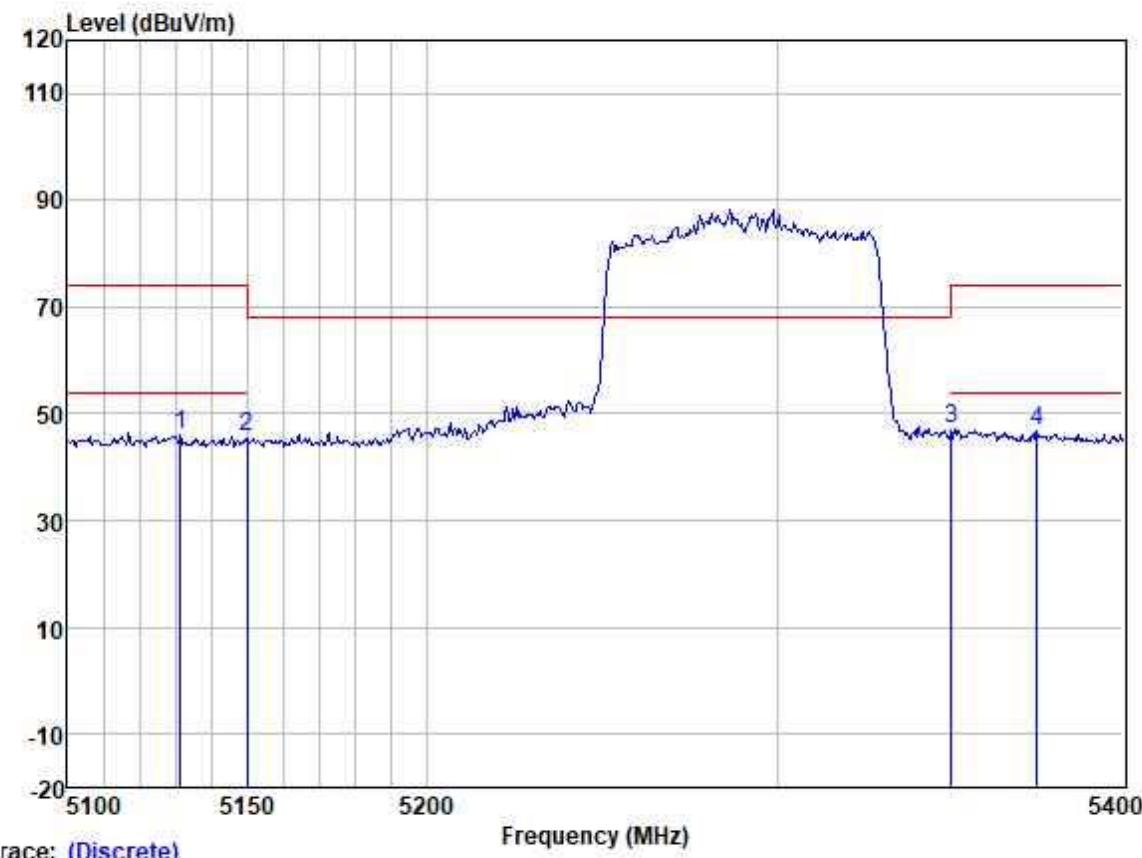
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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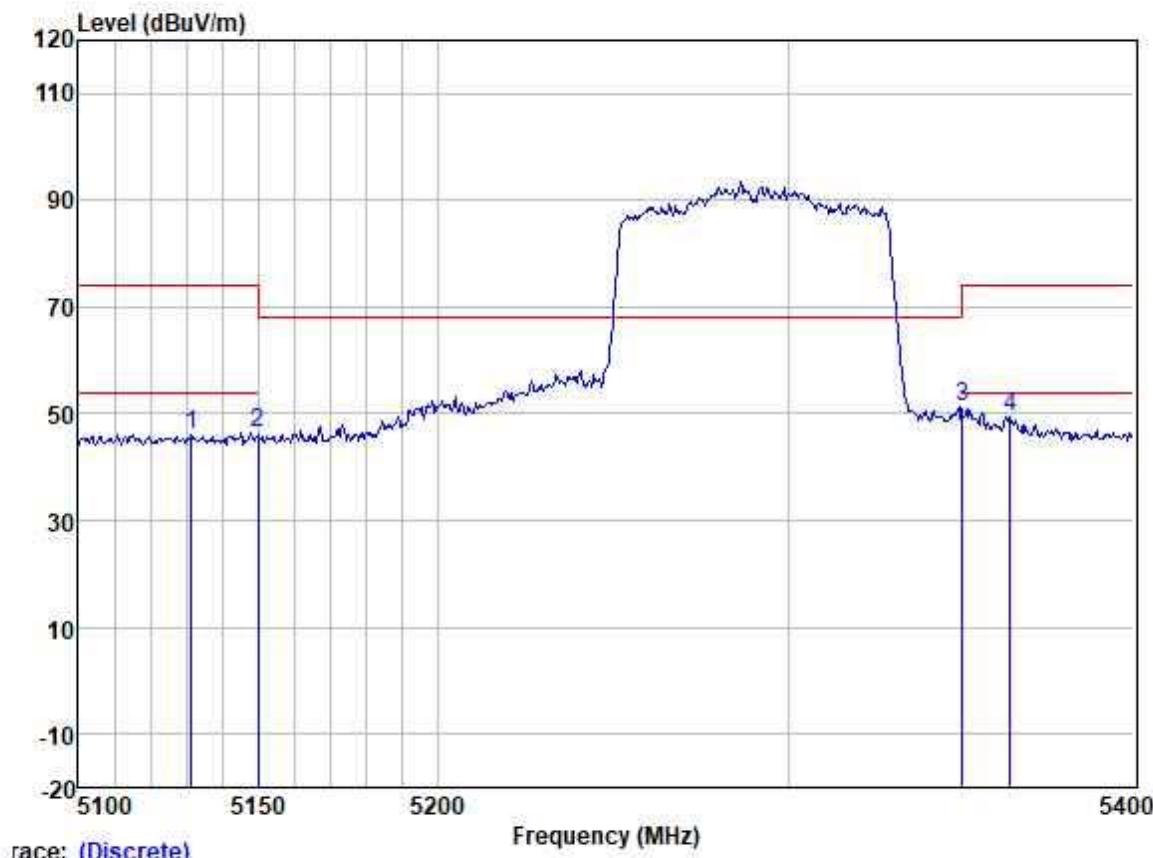
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz;



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz;



Trace: (Discrete)	Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Level	Limit	Line	Over	Limit	Pol/Phase	Remark
		MHz	dBuV	dB	dB										
1	5131.287	45.44	31.72	5.38	36.32	46.22	74.00	-27.78	HORIZONTAL	Peak					
2	5150.000	45.71	31.72	5.36	36.31	46.48	68.20	-21.72	HORIZONTAL	Peak					
3	5350.000	50.36	31.77	5.53	36.24	51.42	68.20	-16.78	HORIZONTAL	Peak					
4	5364.008	48.31	31.78	5.55	36.23	49.41	74.00	-24.59	HORIZONTAL	Peak					

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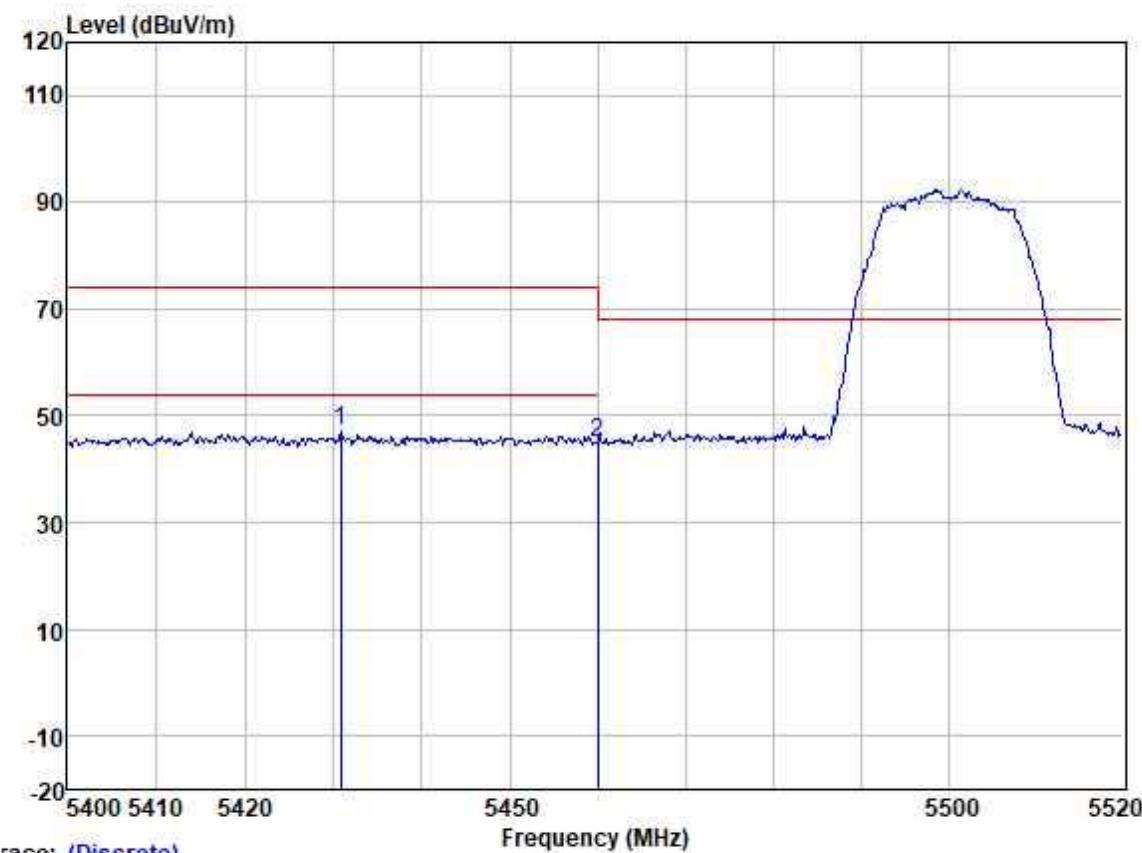
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

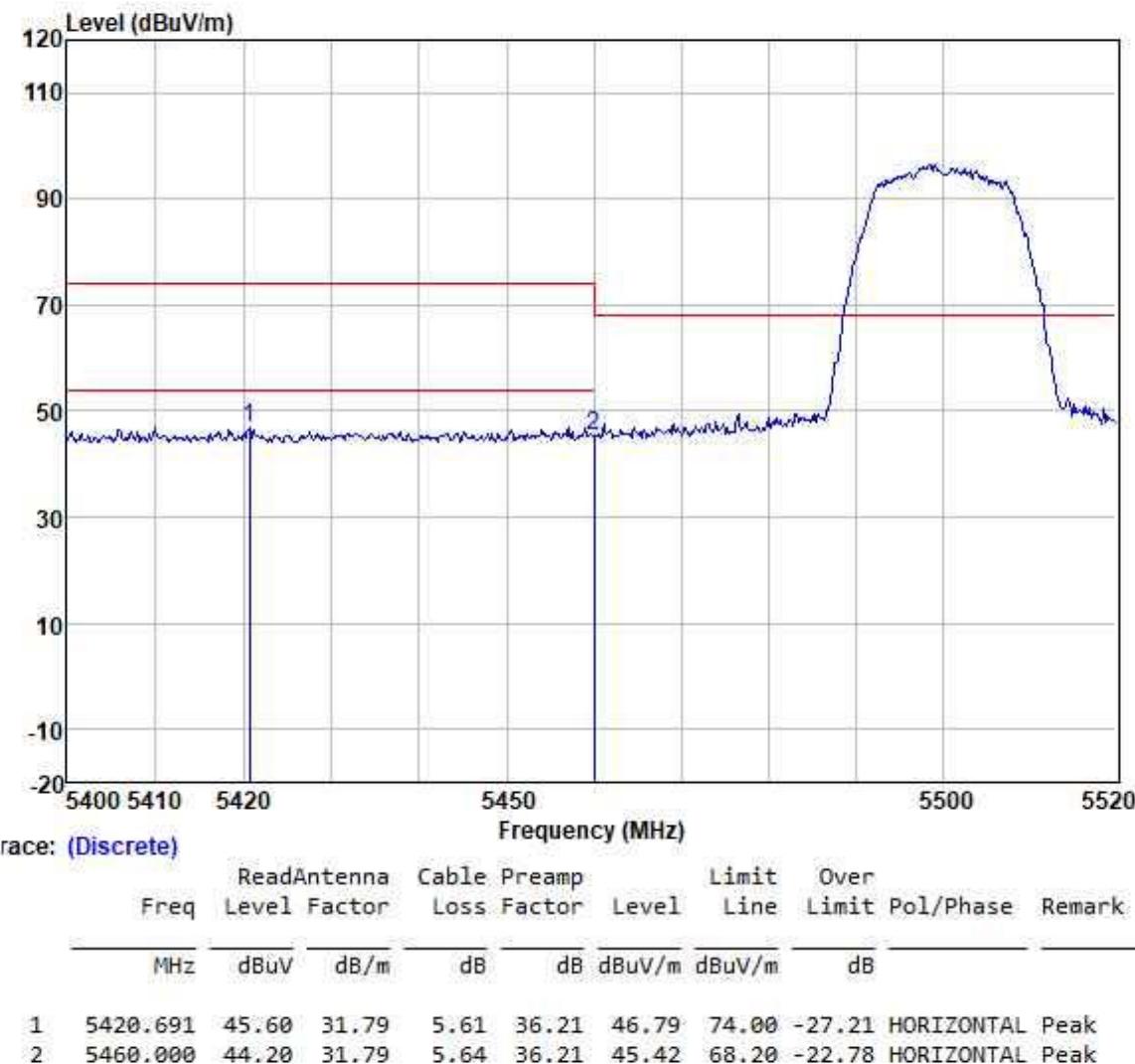
Race	Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Level	Limit	Line	Over	Limit	Pol/Phase	Remark
		MHz	dBuV	dB	dB										
1	5430.827	45.87	31.79	5.61	36.21	47.06	47.06	47.06	74.00	-26.94	VERTICAL	Peak			
2	5460.000	43.83	31.79	5.64	36.21	45.05	45.05	45.05	68.20	-23.15	VERTICAL	Peak			



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



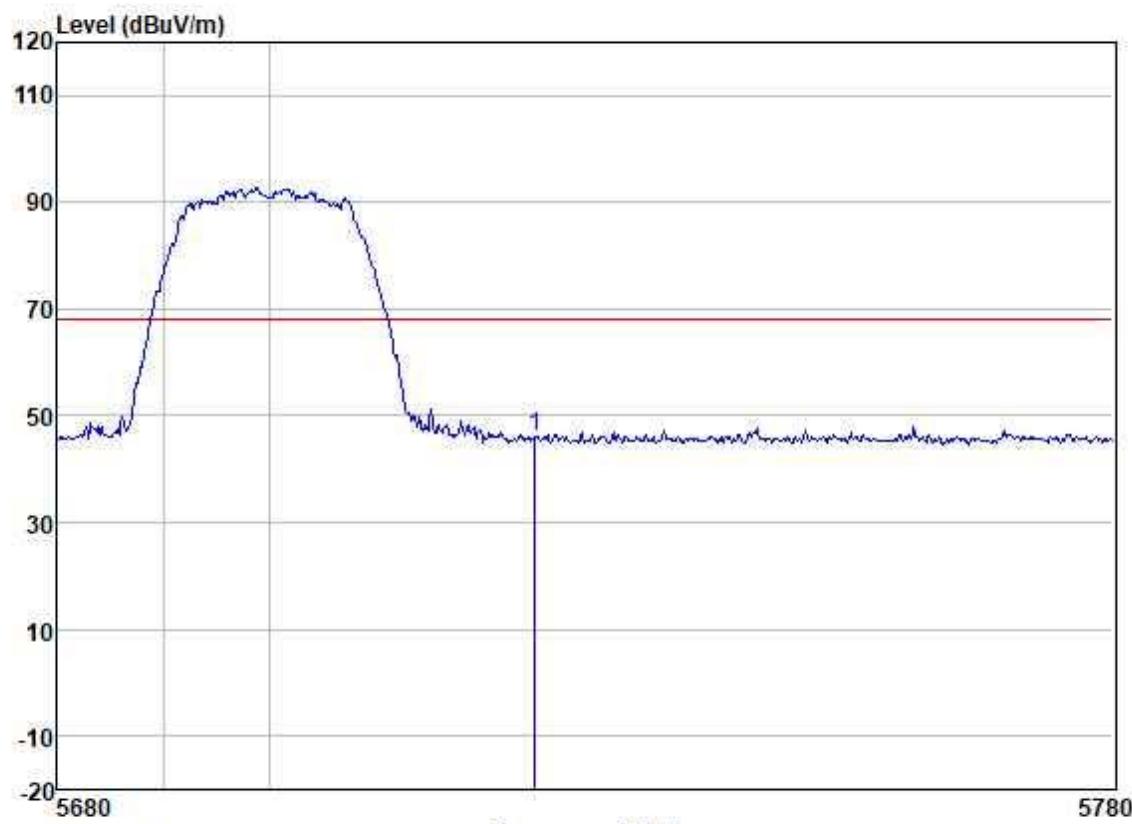
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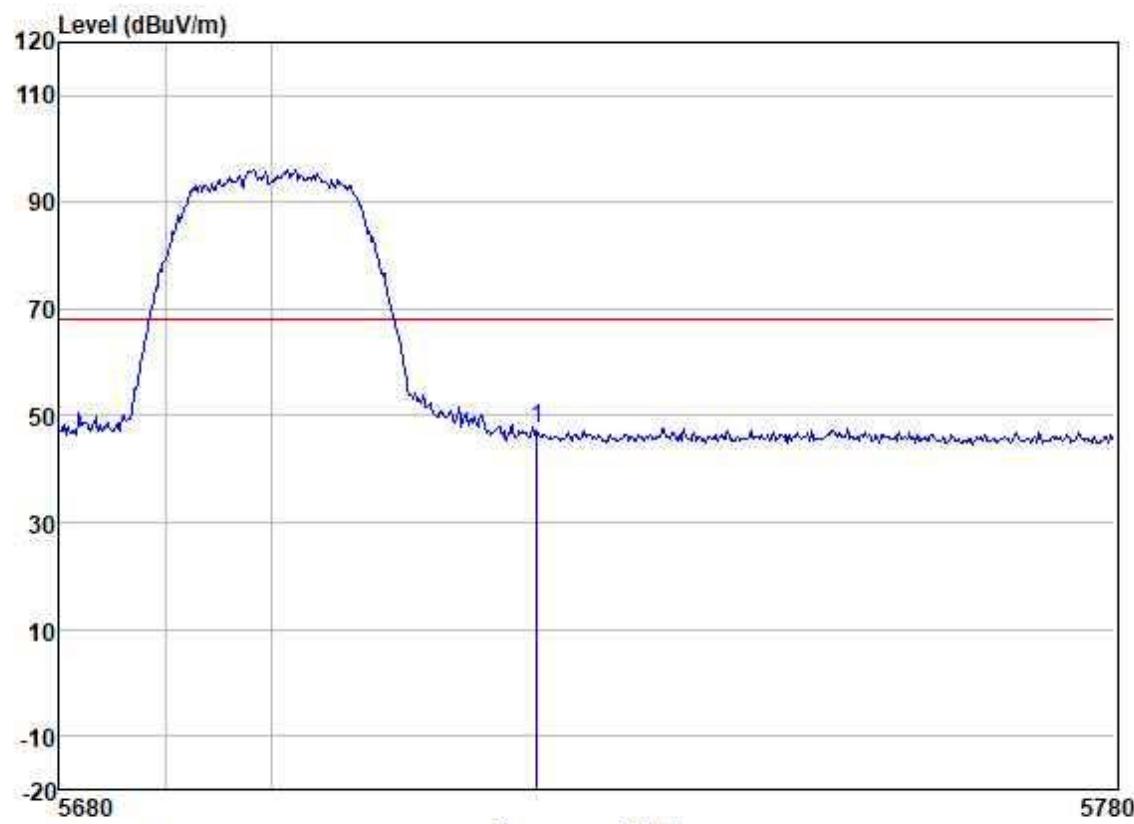
Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



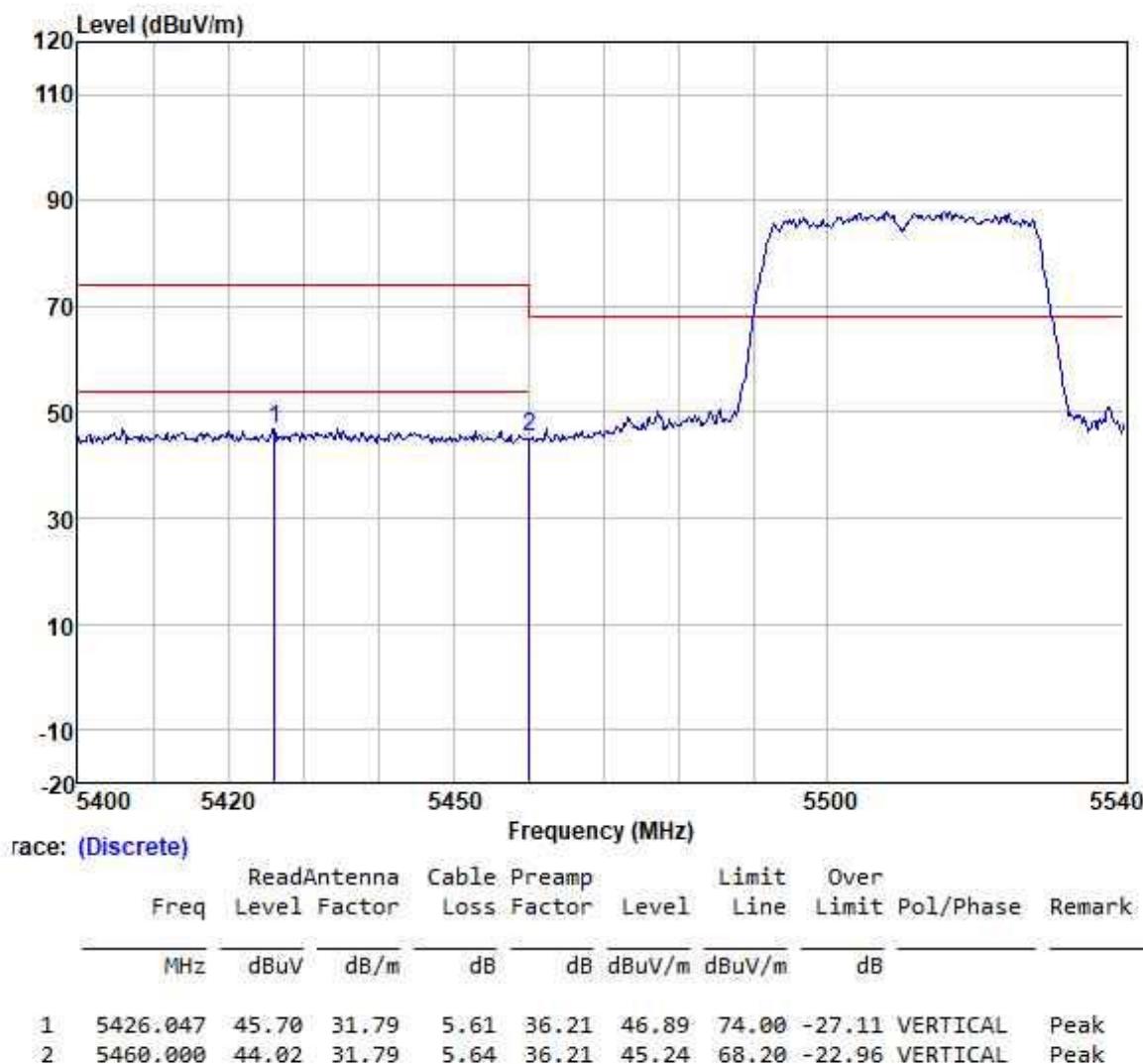
Race:	Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Remark
		Level	Factor	Loss	Factor	Level	dBuV/m				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m				
1	5725.000	45.82	32.07	5.71	36.15	47.45	68.20	-20.75	HORIZONTAL	Peak	



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



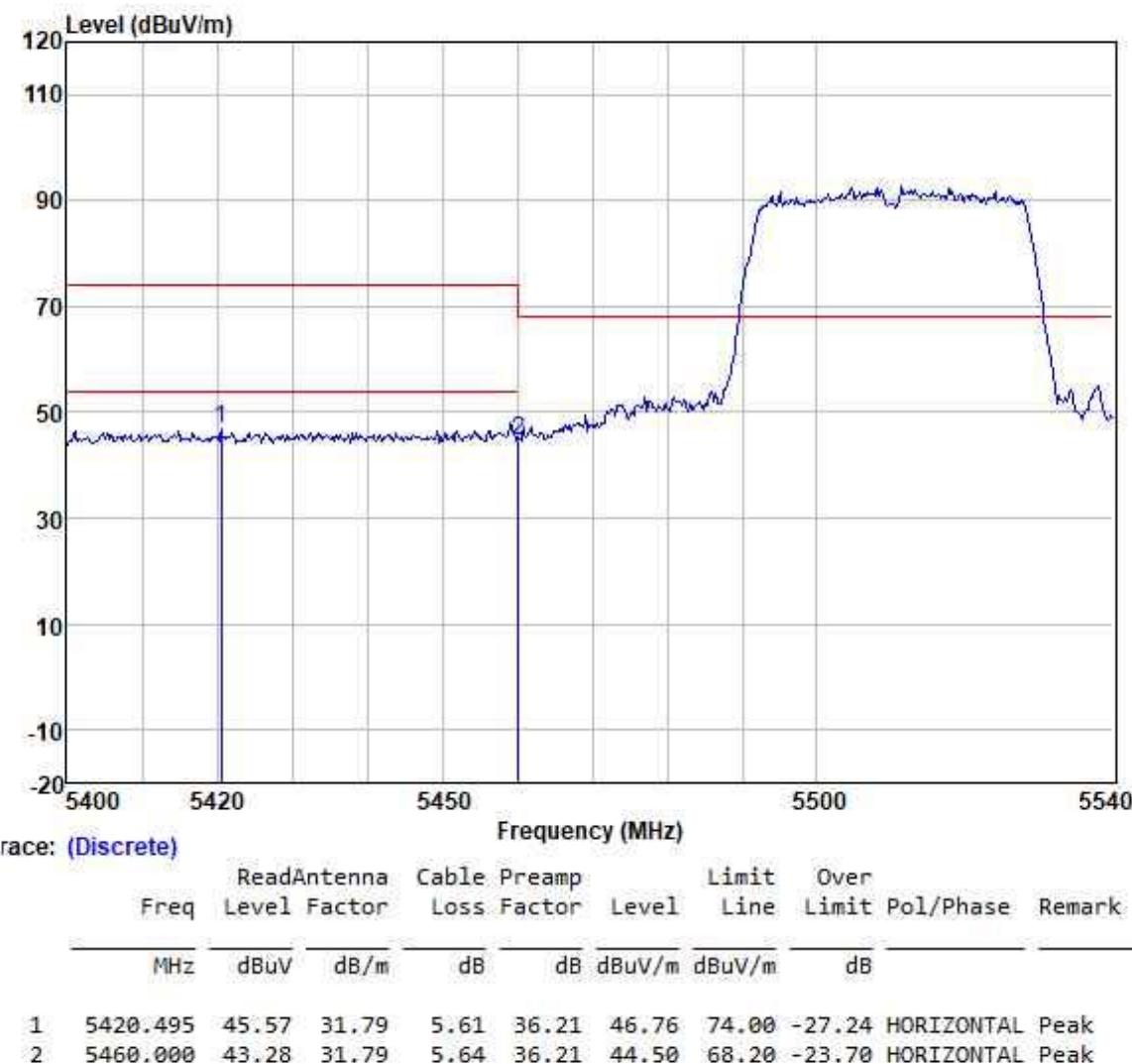
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



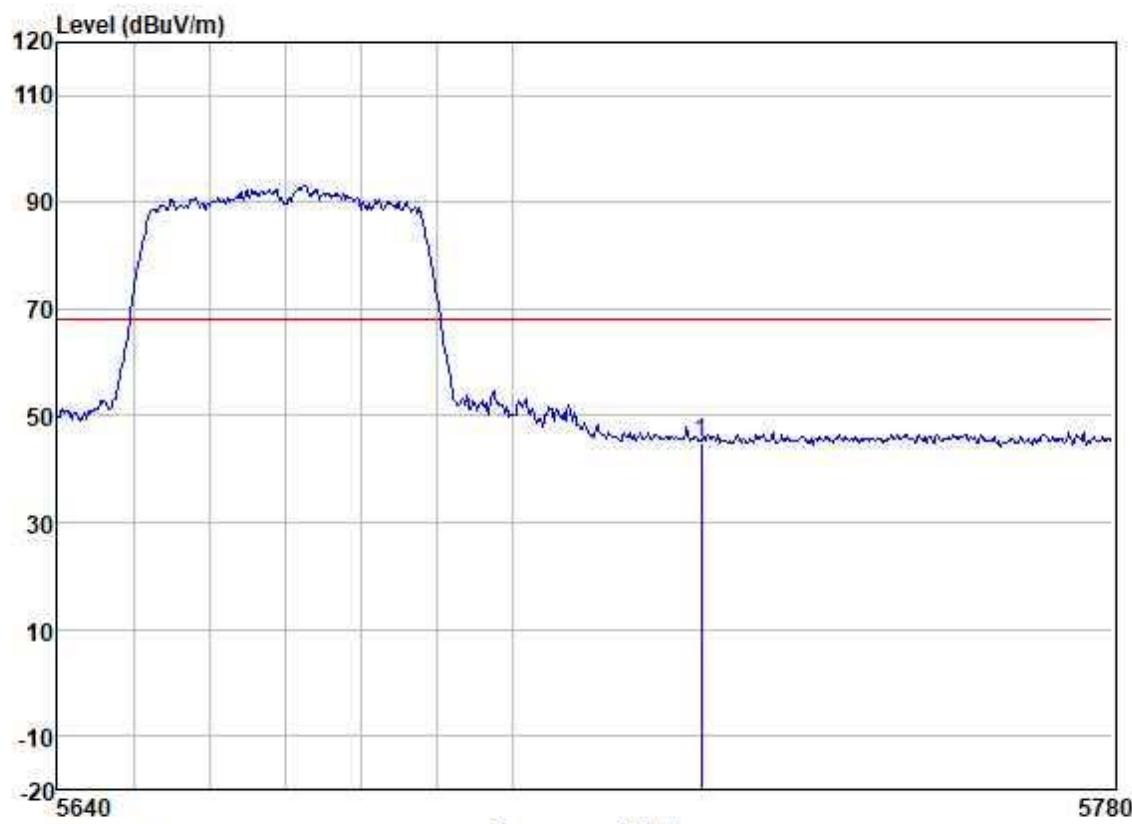
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

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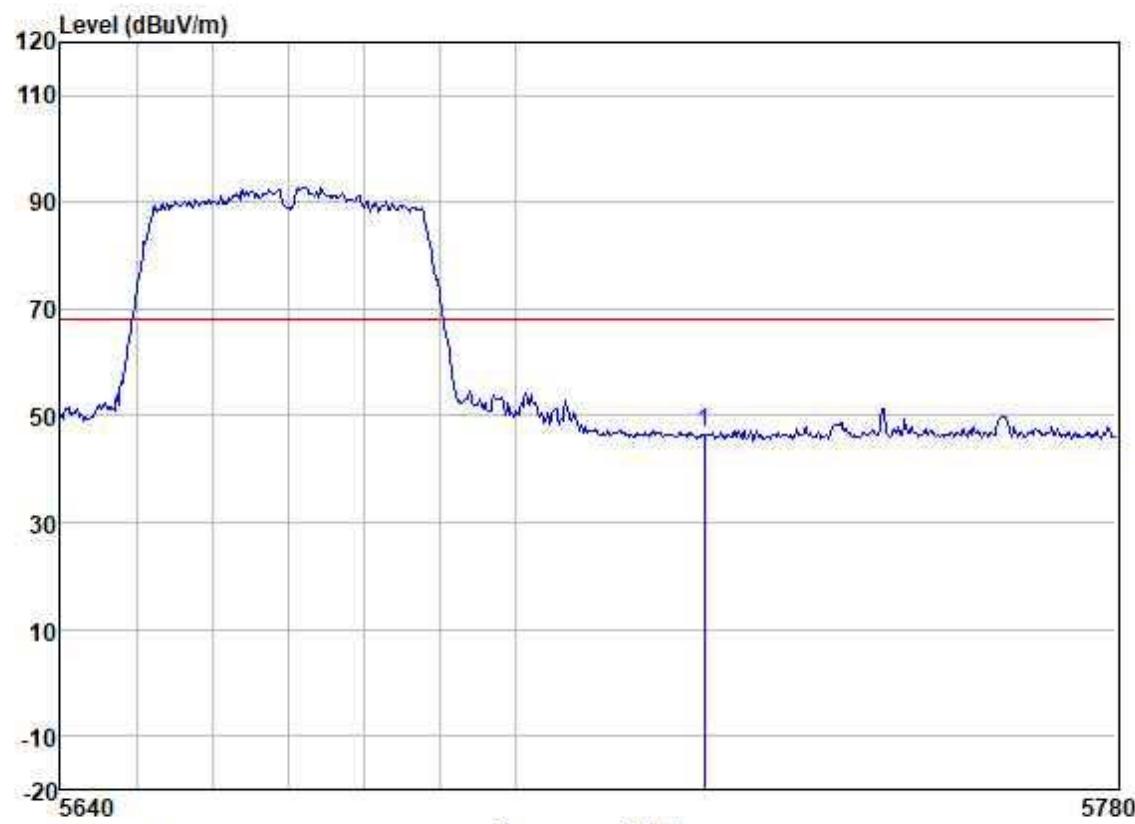
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



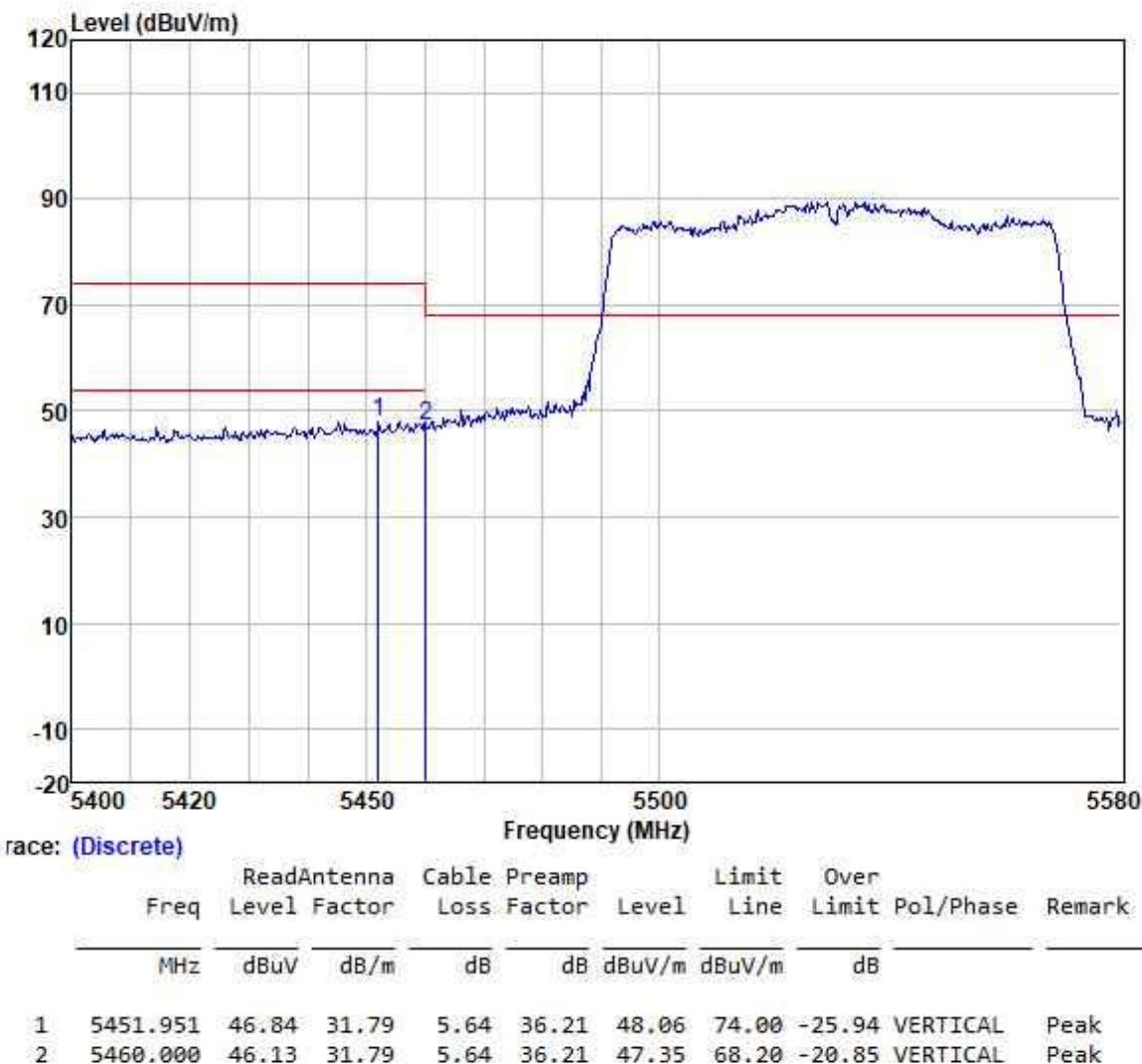
Race: (Discrete)	ReadAntenna Cable Preamp								Over	Limit Line	Limit Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB	dB
1 5725.000	45.10	32.07	5.71	36.15	46.73	68.20	-21.47	HORIZONTAL	Peak			



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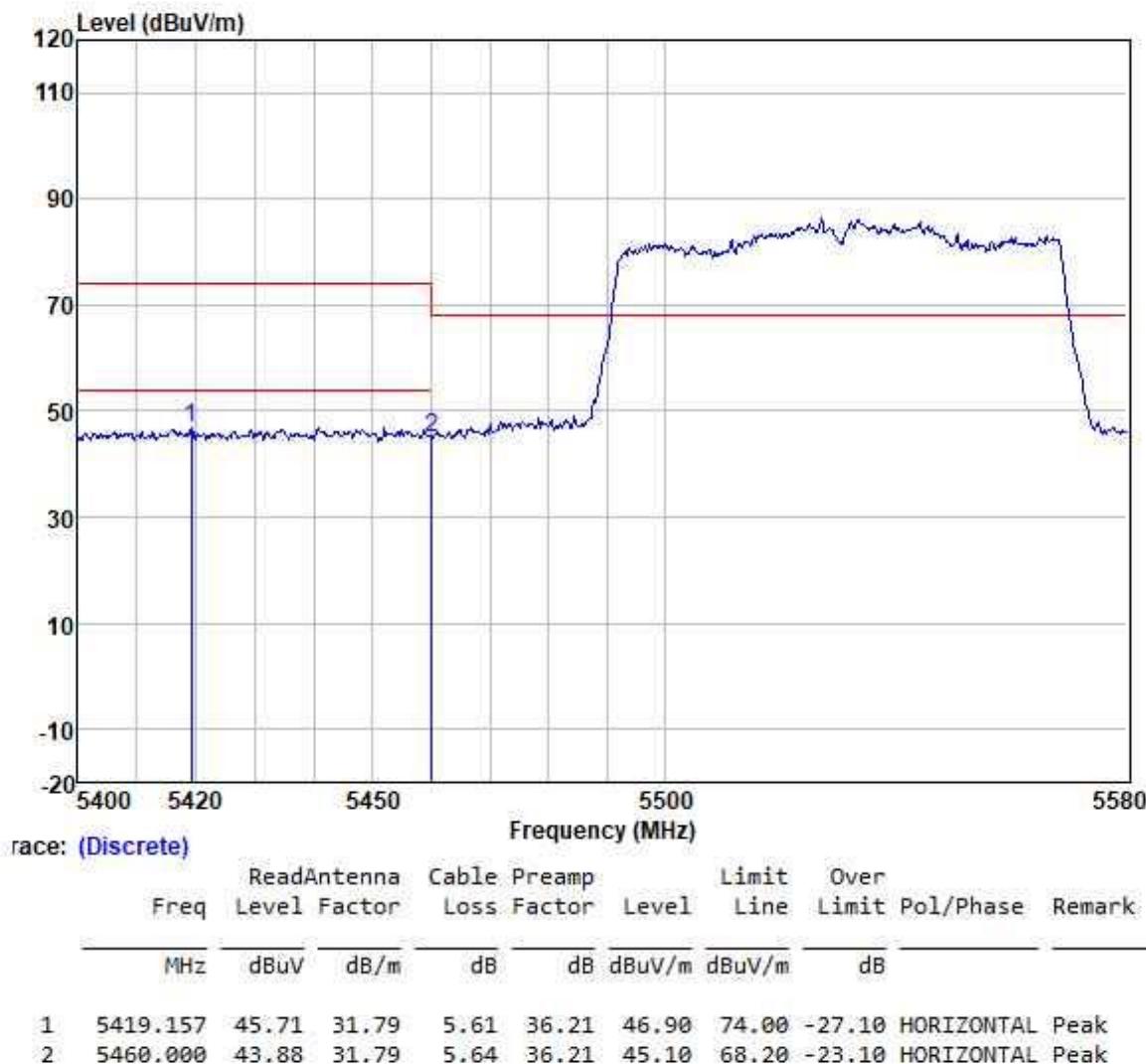
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



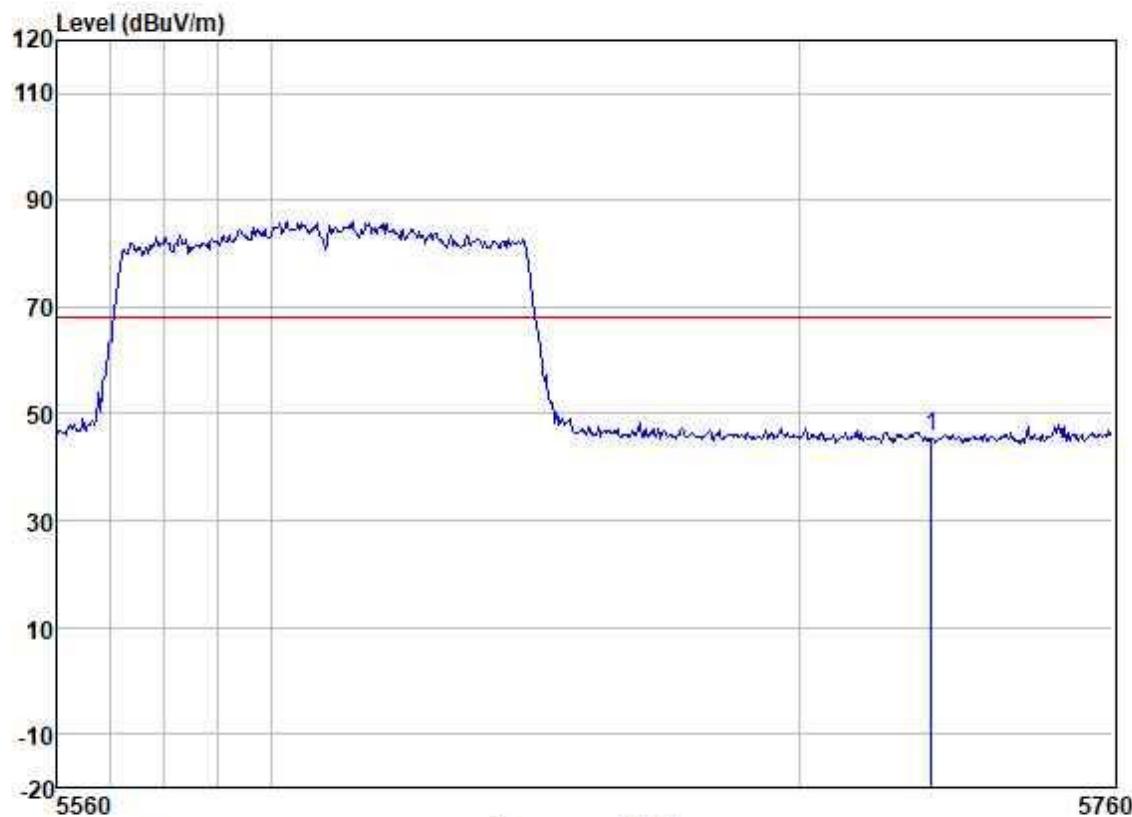
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Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



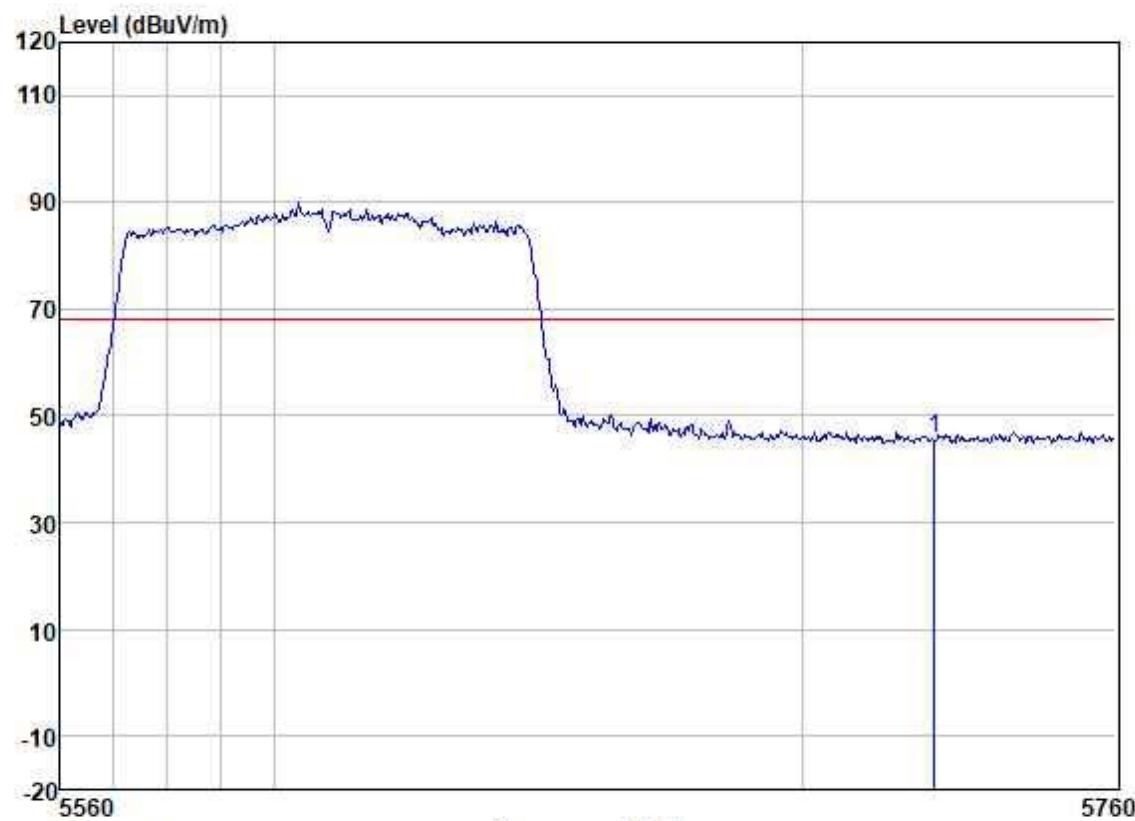
Race: (Discrete)	Frequency (MHz)								
	ReadAntenna Freq	Level Factor	Cable Loss Factor	Preamp Factor	Limit Level	Over Line Limit	Over Limit Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5725.000	44.18	32.07	5.71	36.15	45.81	68.20	-22.39	VERTICAL Peak



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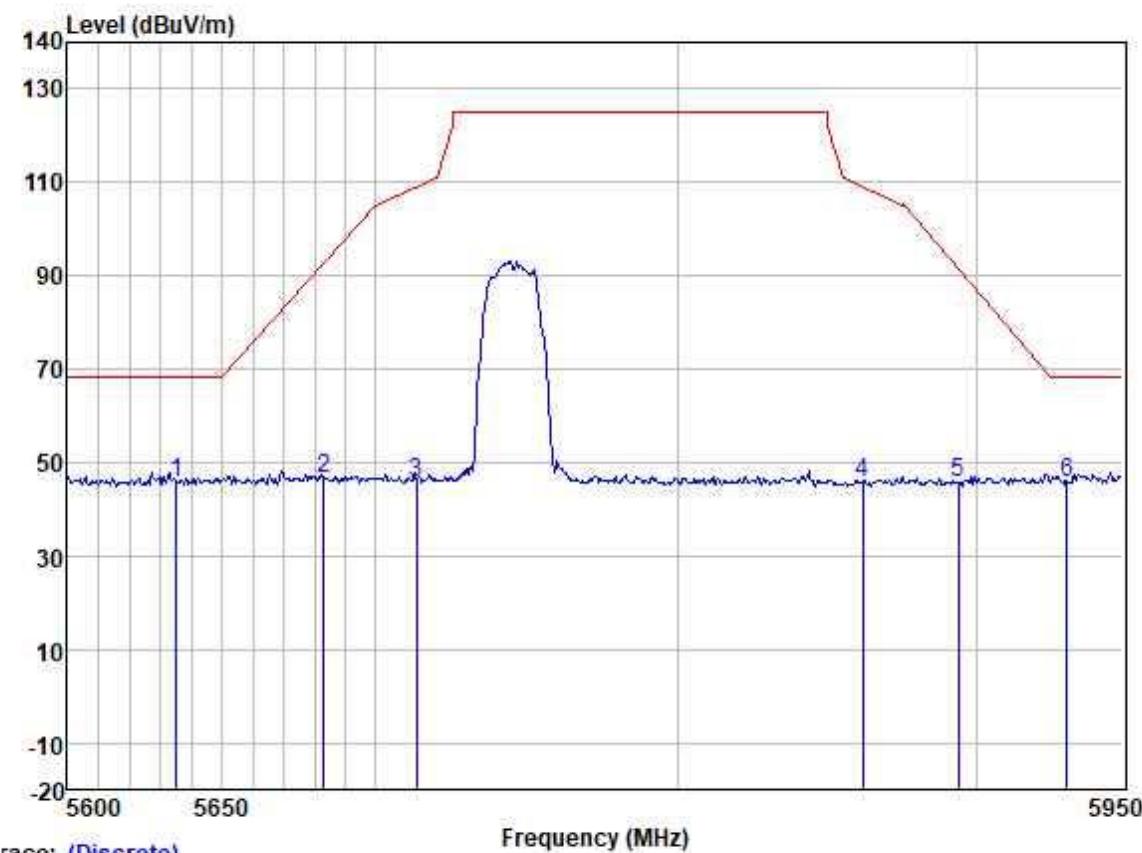
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Index	Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Level	Limit	Over	Line	Limit	Pol/Phase	Remark
		MHz	dBuV	Level	Factor				dB	dB	dBuV/m	dBuV/m	dB	dB	dB
1	5635.078	43.63	31.93	6.33	36.17	45.72	68.20	-22.48	VERTICAL	Peak					
2	5683.109	44.51	31.99	6.38	36.16	46.72	92.74	-46.02	VERTICAL	Peak					
3	5713.509	43.59	32.04	6.33	36.15	45.81	108.98	-63.17	VERTICAL	Peak					
4	5861.567	43.60	32.27	5.96	36.12	45.71	108.96	-63.25	VERTICAL	Peak					
5	5893.994	43.57	32.31	5.90	36.12	45.66	91.15	-45.49	VERTICAL	Peak					
6	5930.913	43.66	32.34	6.00	36.11	45.89	68.20	-22.31	VERTICAL	Peak					

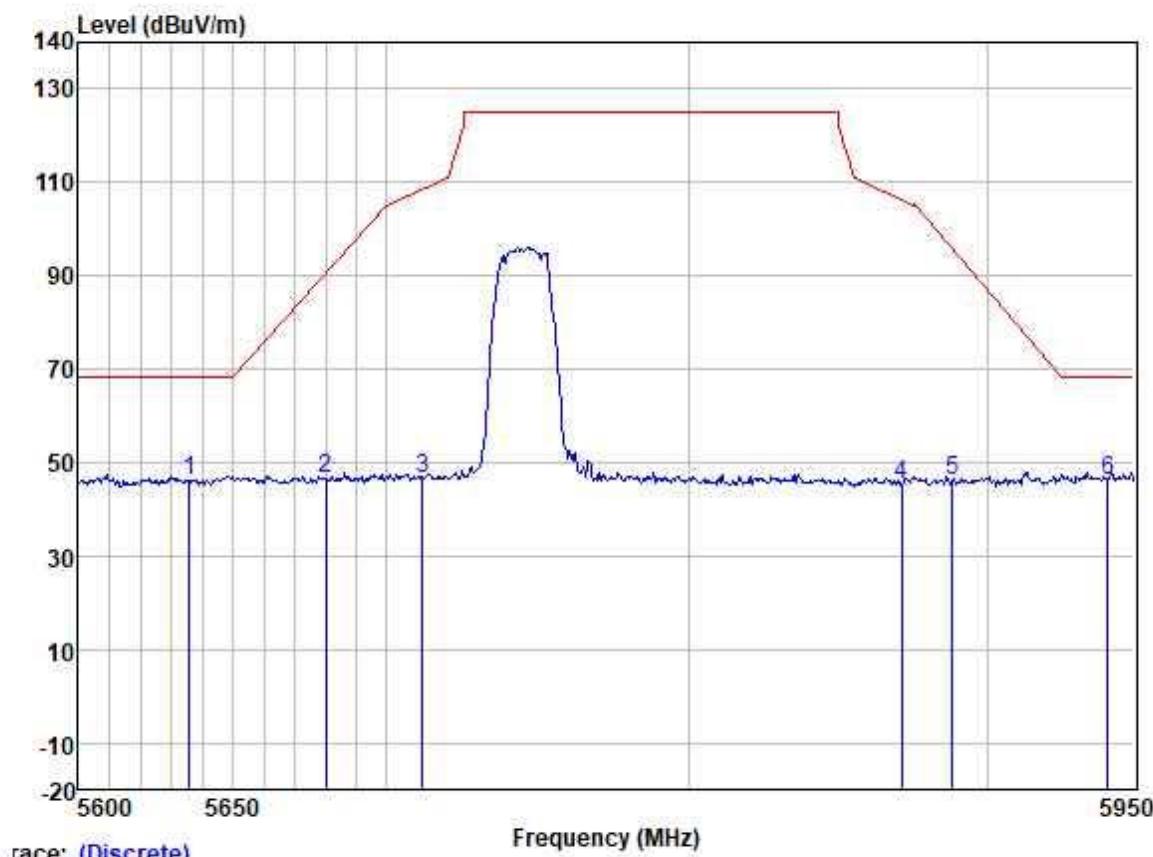
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)	Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Level	Limit	Line	Over	Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB										
1	5635.761	44.11	31.93	6.33	36.17	46.20	68.20	-22.00	HORIZONTAL	Peak					
2	5680.009	44.41	31.99	6.38	36.16	46.62	90.45	-43.83	HORIZONTAL	Peak					
3	5711.777	44.45	32.04	6.33	36.15	46.67	108.50	-61.83	HORIZONTAL	Peak					
4	5871.169	42.97	32.27	5.96	36.12	45.08	106.27	-61.19	HORIZONTAL	Peak					
5	5888.279	43.94	32.29	5.93	36.12	46.04	95.39	-49.35	HORIZONTAL	Peak					
6	5940.989	44.01	32.34	6.00	36.11	46.24	68.20	-21.96	HORIZONTAL	Peak					

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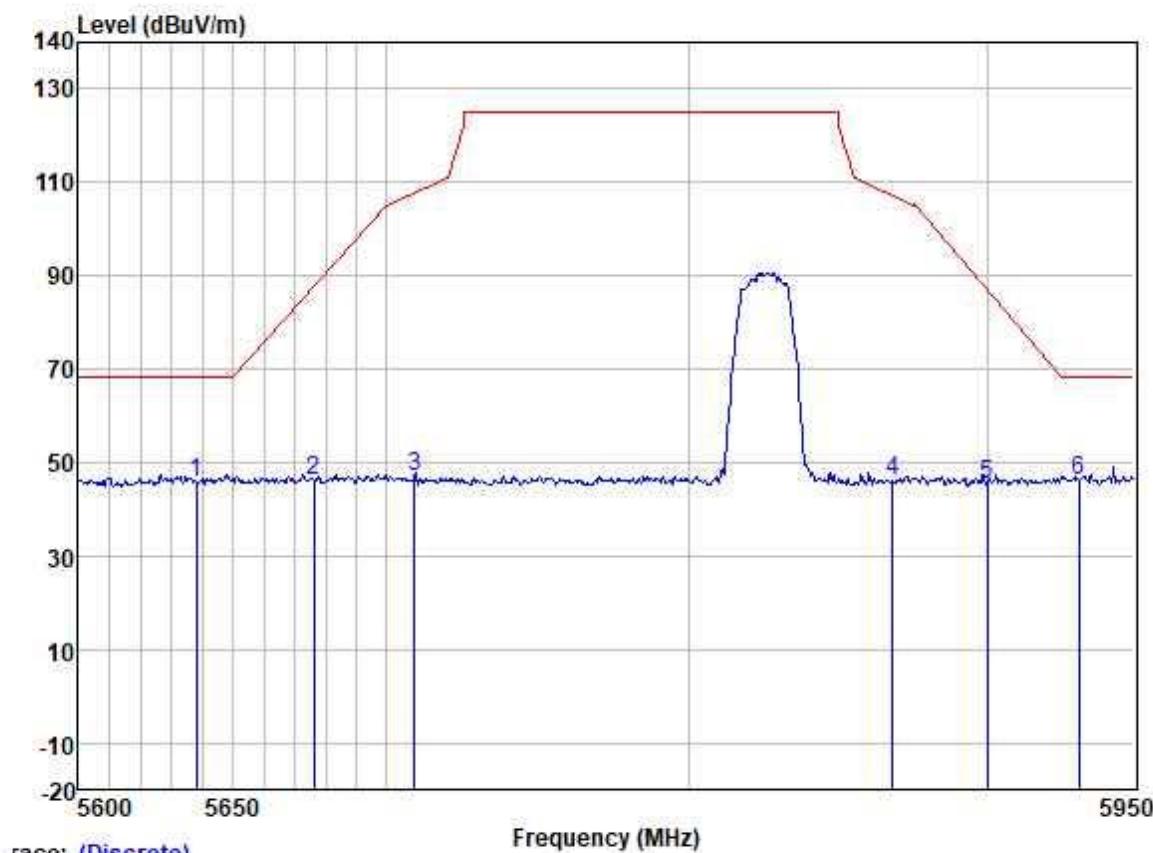
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Index	Frequency (MHz)	ReadAntenna		Cable		Preamp	Loss Factor	Level	Limit	Over Line	Limit Pol/Phase	Remark
		Freq	Level	Factor	dB							
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5638.153	43.57	31.93	6.33	36.16	45.67	68.20	-22.53	VERTICAL		Peak	
2	5676.222	43.99	31.99	6.38	36.16	46.20	87.65	-41.45	VERTICAL		Peak	
3	5709.008	44.87	32.04	6.33	36.15	47.09	107.72	-60.63	VERTICAL		Peak	
4	5867.967	44.03	32.27	5.96	36.12	46.14	107.17	-61.03	VERTICAL		Peak	
5	5900.071	43.26	32.31	5.90	36.12	45.35	86.64	-41.29	VERTICAL		Peak	
6	5931.272	43.84	32.34	6.00	36.11	46.07	68.20	-22.13	VERTICAL		Peak	

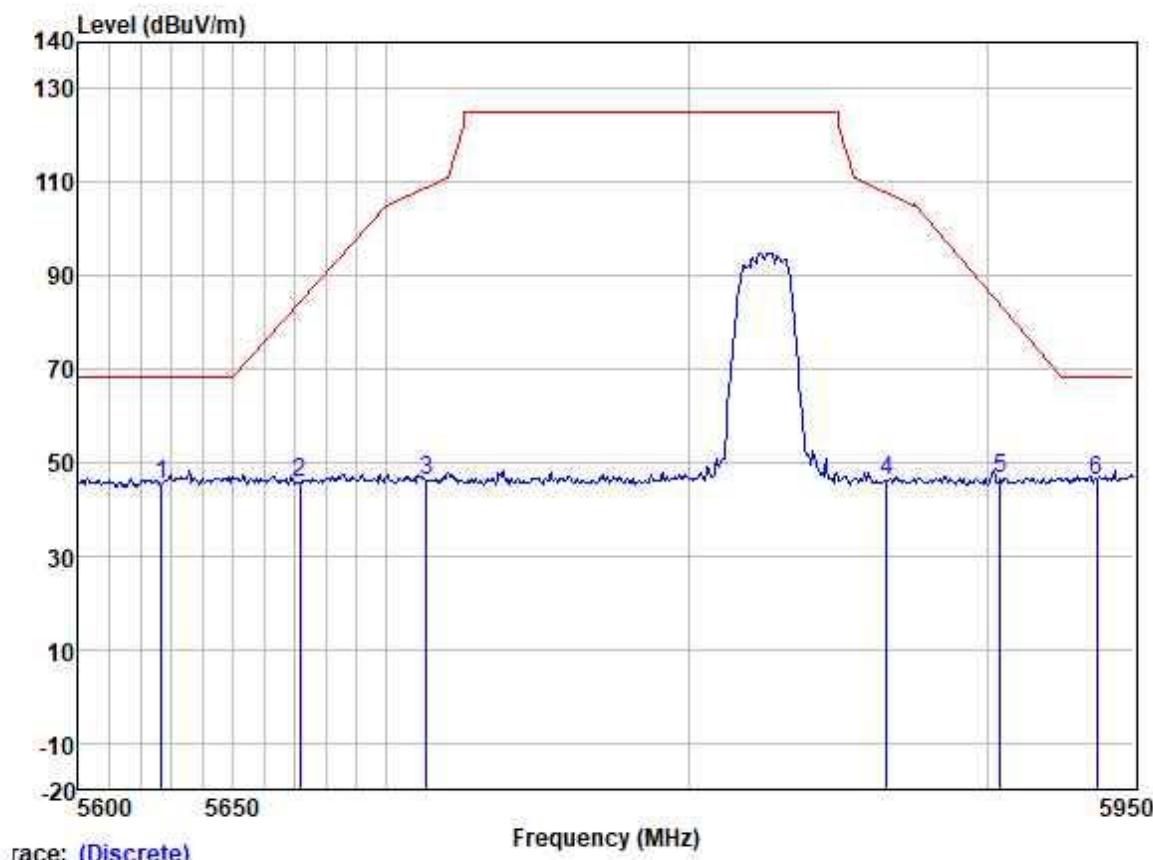
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Index	Frequency (MHz)	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		Freq	Level	Factor	dB						
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5626.885	43.37	31.93	6.33	36.17	45.46	68.20	-22.74	HORIZONTAL	Peak	
2	5671.750	43.52	31.97	6.37	36.16	45.70	84.34	-38.64	HORIZONTAL	Peak	
3	5713.163	43.85	32.04	6.33	36.15	46.07	108.89	-62.82	HORIZONTAL	Peak	
4	5866.188	44.10	32.27	5.96	36.12	46.21	107.67	-61.46	HORIZONTAL	Peak	
5	5904.365	44.28	32.31	5.90	36.12	46.37	83.46	-37.09	HORIZONTAL	Peak	
6	5937.388	44.10	32.34	6.00	36.11	46.33	68.20	-21.87	HORIZONTAL	Peak	

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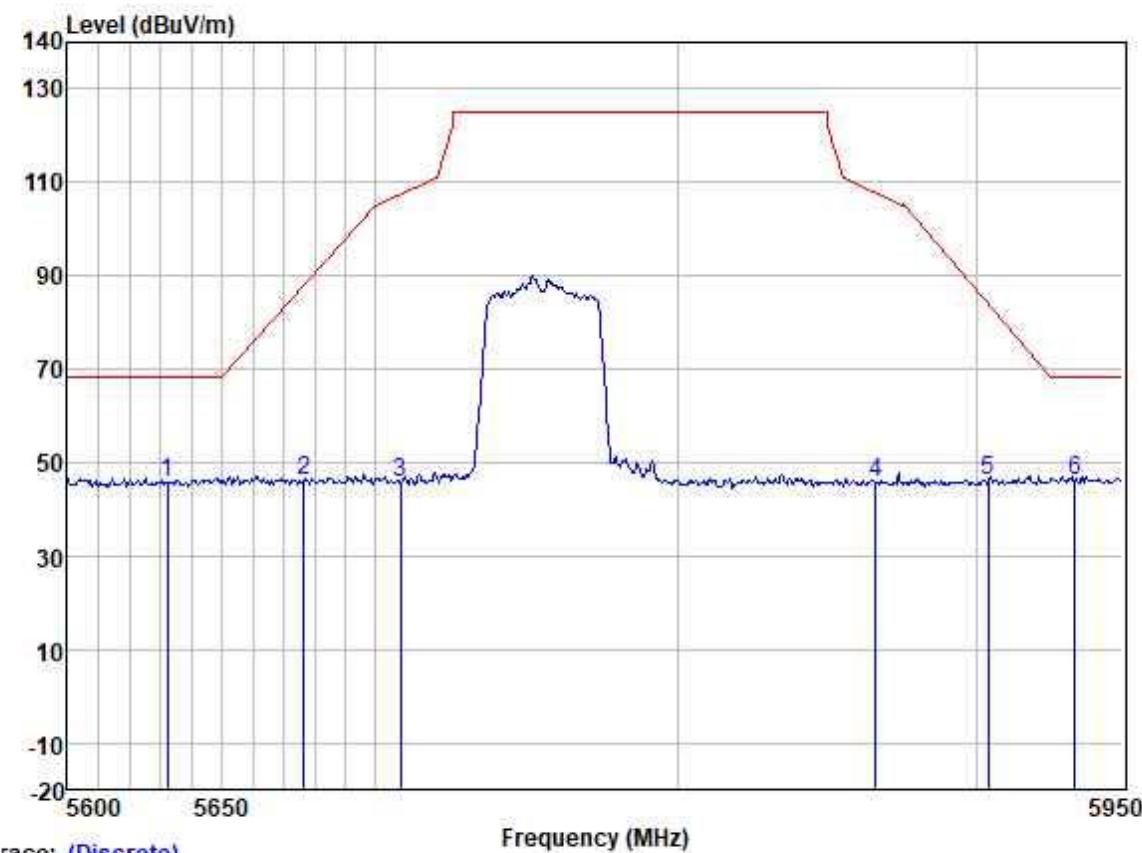
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Limit	Pol/Phase	Remark
		MHz	dBuV	Level	Factor						
1	5632.345	43.59	31.93	6.33	36.17	45.68	68.20	-22.52	VERTICAL	Peak	
2	5676.566	44.05	31.99	6.38	36.16	46.26	87.90	-41.64	VERTICAL	Peak	
3	5708.315	43.67	32.04	6.33	36.15	45.89	107.53	-61.64	VERTICAL	Peak	
4	5866.188	43.68	32.27	5.96	36.12	45.79	107.67	-61.88	VERTICAL	Peak	
5	5904.007	43.85	32.31	5.90	36.12	45.94	83.73	-37.79	VERTICAL	Peak	
6	5933.430	43.88	32.34	6.00	36.11	46.11	68.20	-22.09	VERTICAL	Peak	

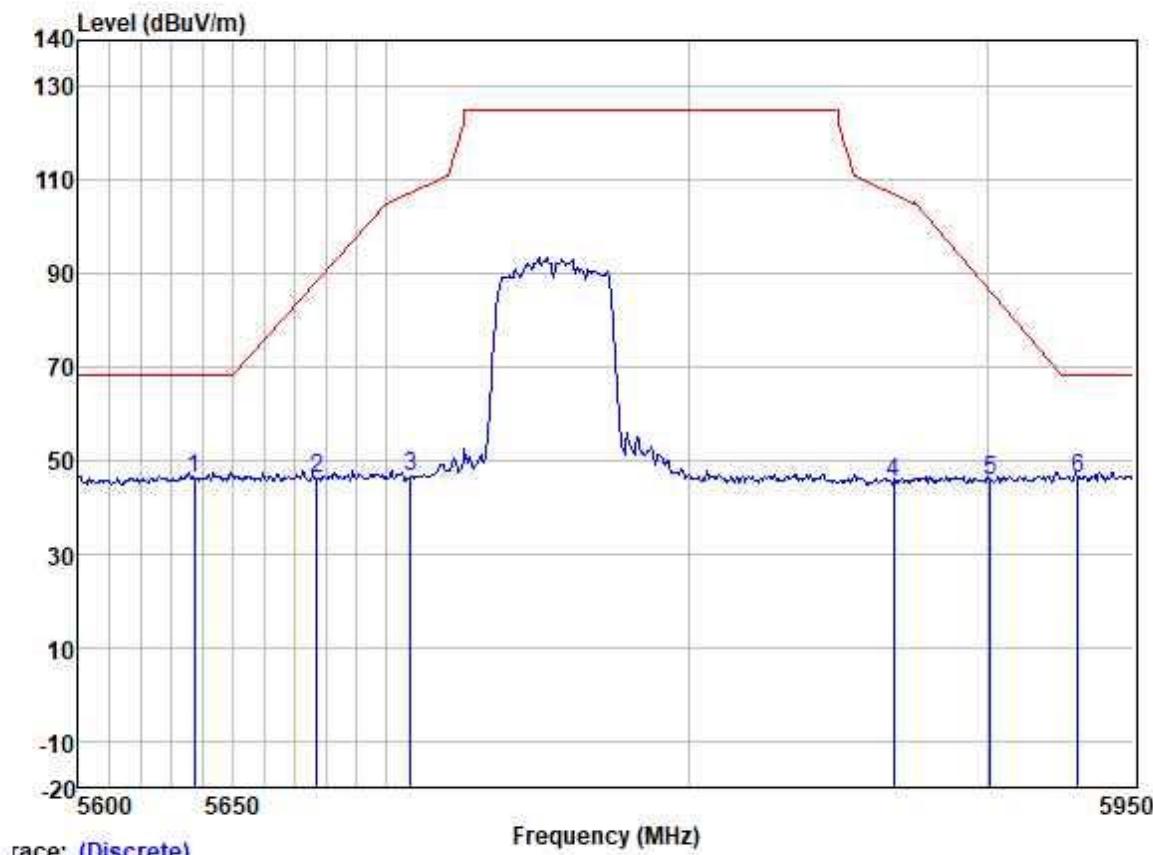
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Level	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB										
1	5637.470	44.15	31.93	6.33	36.17	46.24	68.20	-21.96	HORIZONTAL	Peak				
2	5677.254	43.76	31.99	6.38	36.16	45.97	88.41	-42.44	HORIZONTAL	Peak				
3	5707.970	44.42	32.04	6.33	36.15	46.64	107.43	-60.79	HORIZONTAL	Peak				
4	5868.322	43.29	32.27	5.96	36.12	45.40	107.07	-61.67	HORIZONTAL	Peak				
5	5901.144	43.80	32.31	5.90	36.12	45.89	85.85	-39.96	HORIZONTAL	Peak				
6	5930.913	43.77	32.34	6.00	36.11	46.00	68.20	-22.20	HORIZONTAL	Peak				

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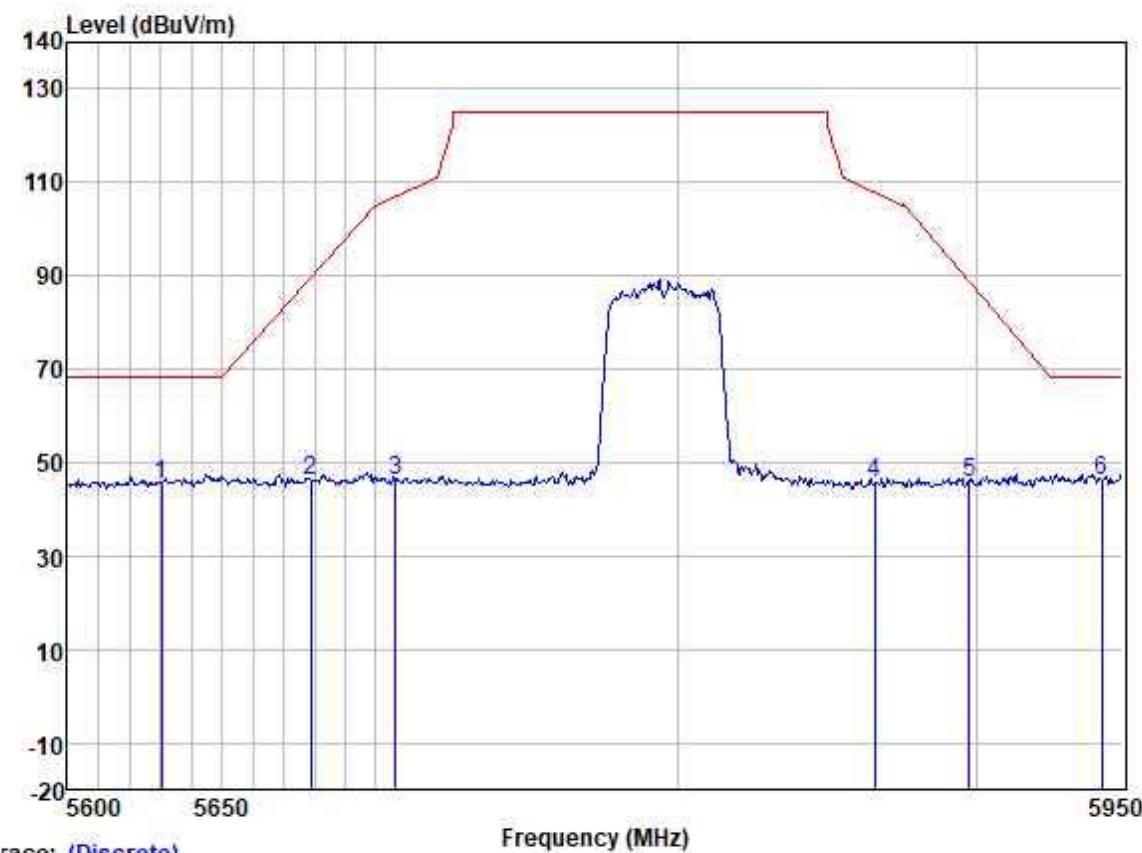
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Rate: (Discrete)

	Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Level	Limit	Line	Over	Limit	Pol/Phase	Remark
		MHz	dBuV	dB	dB										
1	5630.297	43.27	31.93	6.33	36.17	45.36	68.20	-22.84	VERTICAL					Peak	
2	5678.976	44.00	31.99	6.38	36.16	46.21	89.68	-43.47	VERTICAL					Peak	
3	5706.585	43.77	32.04	6.33	36.15	45.99	107.05	-61.06	VERTICAL					Peak	
4	5865.833	43.49	32.27	5.96	36.12	45.60	107.76	-62.16	VERTICAL					Peak	
5	5897.568	43.47	32.31	5.90	36.12	45.56	88.50	-42.94	VERTICAL					Peak	
6	5942.790	43.91	32.36	6.05	36.11	46.21	68.20	-21.99	VERTICAL					Peak	

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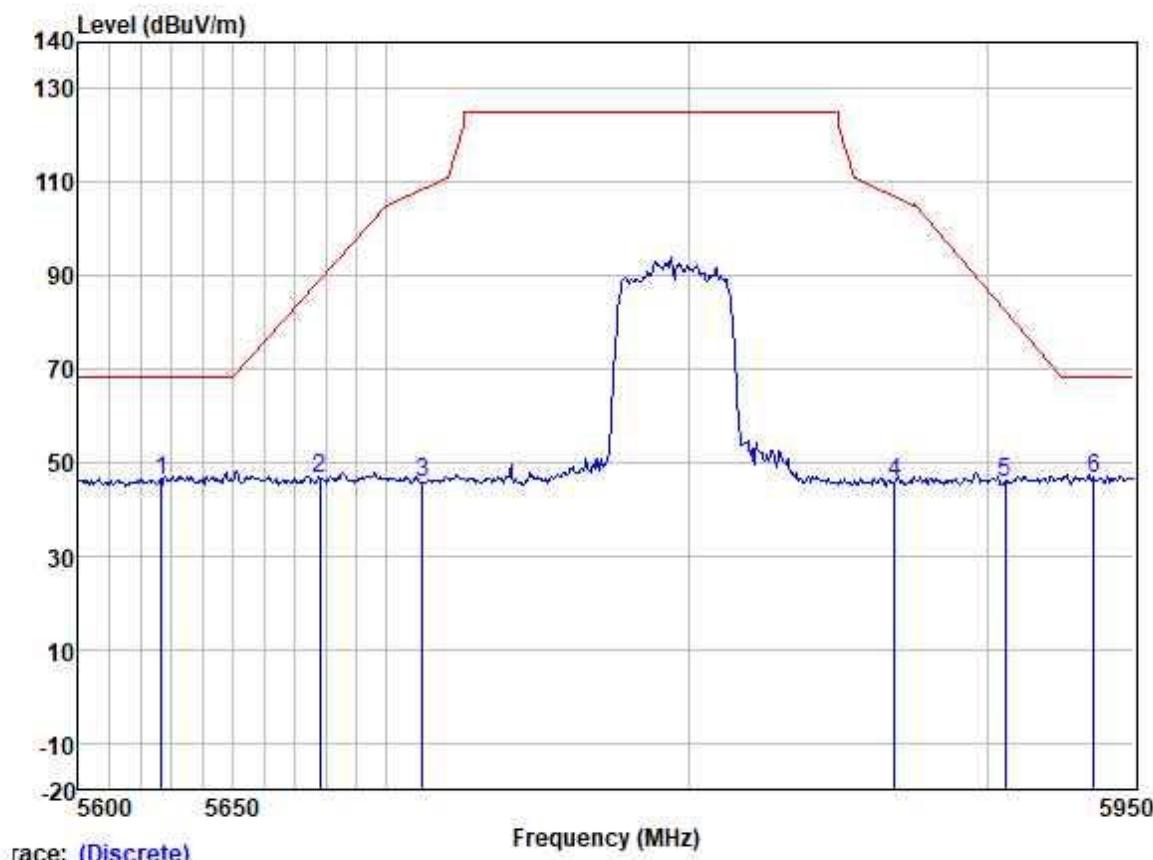
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Level	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB										
1	5626.885	43.88	31.93	6.33	36.17	45.97	68.20	-22.23	HORIZONTAL	Peak				
2	5678.287	44.49	31.99	6.38	36.16	46.70	89.17	-42.47	HORIZONTAL	Peak				
3	5711.777	43.39	32.04	6.33	36.15	45.61	108.50	-62.89	HORIZONTAL	Peak				
4	5868.678	43.45	32.27	5.96	36.12	45.56	106.97	-61.41	HORIZONTAL	Peak				
5	5906.155	43.80	32.31	5.90	36.12	45.89	82.13	-36.24	HORIZONTAL	Peak				
6	5936.309	44.26	32.34	6.00	36.11	46.49	68.20	-21.71	HORIZONTAL	Peak				

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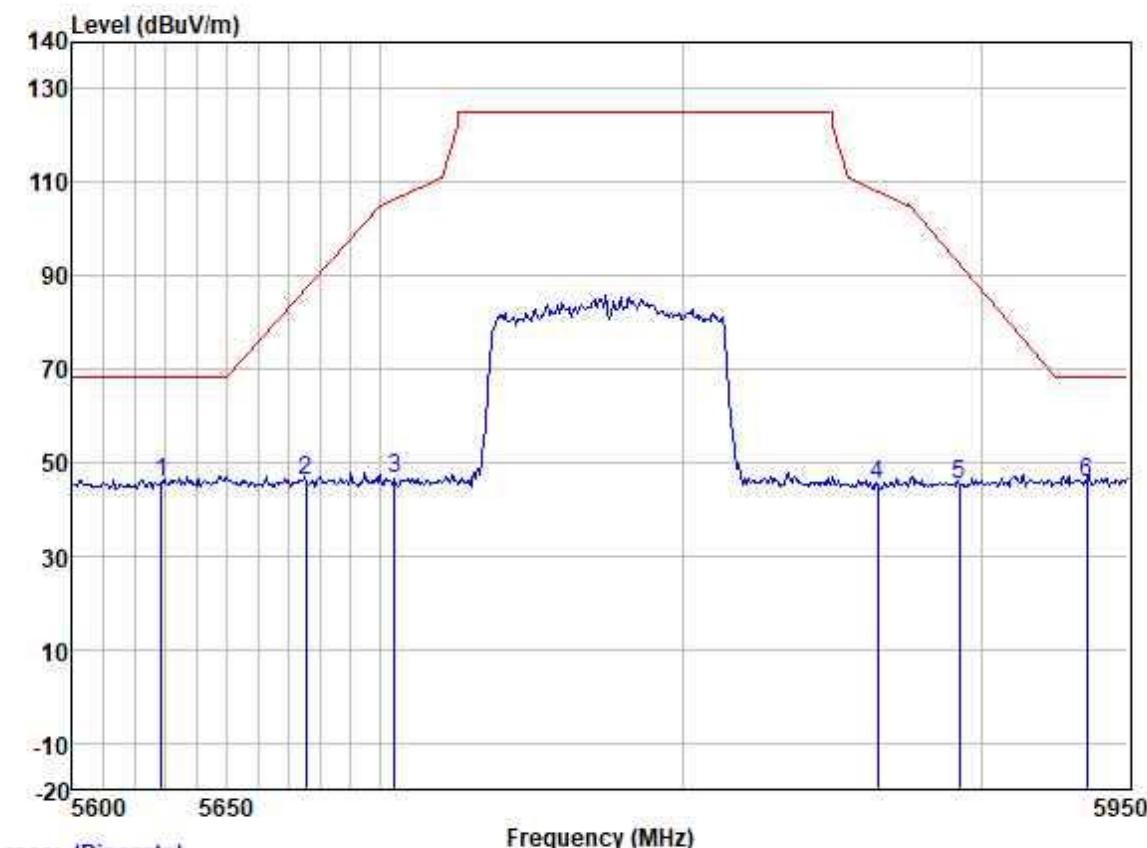
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz;



Mode: (Discrete)

Index	Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Level	Limit	Over	Line	Limit	Pol/Phase	Remark
		MHz	dBuV	dB	dB					dBuV/m	dBuV/m				
1	5628.590	43.41	31.93	6.33	36.17	45.50	68.20	-22.70	VERTICAL						Peak
2	5675.534	44.04	31.99	6.38	36.16	46.25	87.14	-40.89	VERTICAL						Peak
3	5704.510	44.28	32.01	6.40	36.15	46.54	106.46	-59.92	VERTICAL						Peak
4	5865.122	43.14	32.27	5.96	36.12	45.25	107.96	-62.71	VERTICAL						Peak
5	5892.564	43.01	32.31	5.90	36.12	45.10	92.21	-47.11	VERTICAL						Peak
6	5935.949	43.44	32.34	6.00	36.11	45.67	68.20	-22.53	VERTICAL						Peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz;

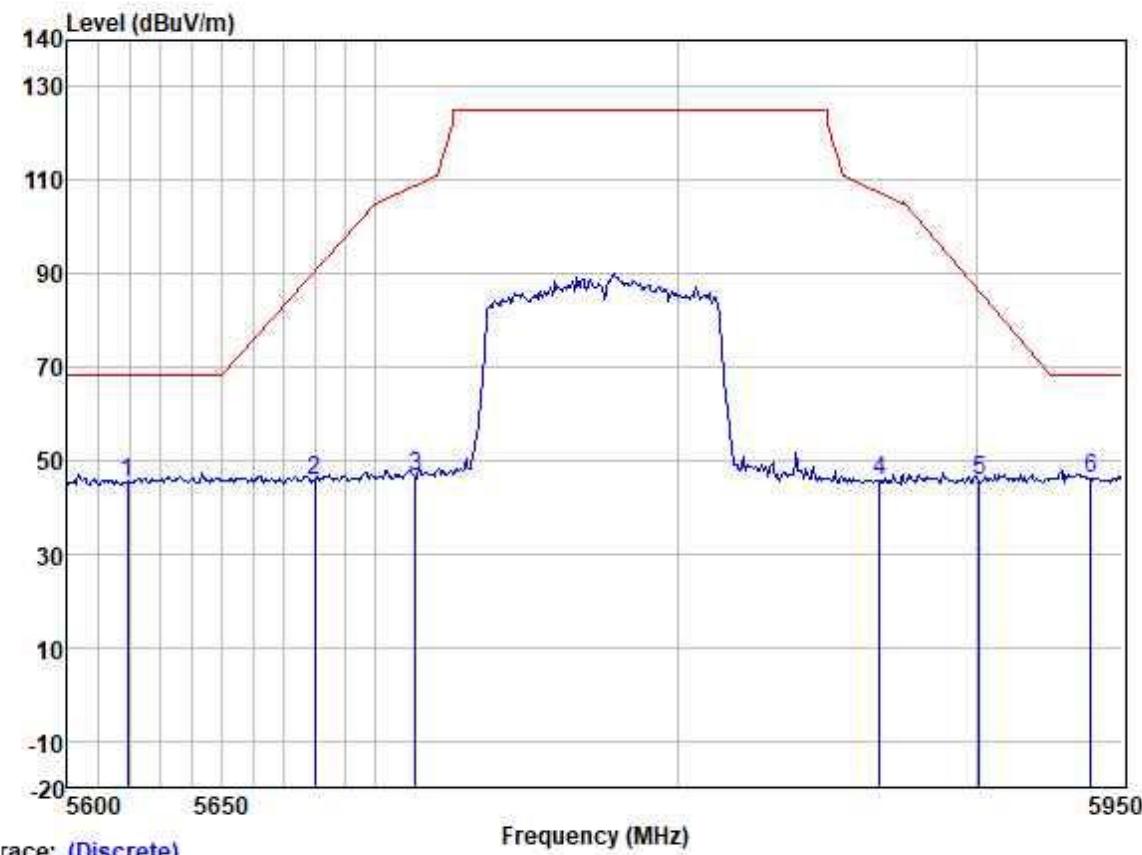


Table: (Discrete)

	Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Level	Limit	Line	Over	Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB										
1	5619.385	43.28	31.91	6.32	36.17	45.34	68.20	-22.86	HORIZONTAL	Peak					
2	5680.009	43.55	31.99	6.38	36.16	45.76	90.45	-44.69	HORIZONTAL	Peak					
3	5713.163	44.13	32.04	6.33	36.15	46.35	108.89	-62.54	HORIZONTAL	Peak					
4	5867.255	43.69	32.27	5.96	36.12	45.80	107.37	-61.57	HORIZONTAL	Peak					
5	5901.144	43.52	32.31	5.90	36.12	45.61	85.85	-40.24	HORIZONTAL	Peak					
6	5938.828	43.97	32.34	6.00	36.11	46.20	68.20	-22.00	HORIZONTAL	Peak					

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## 7.9 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)  
Test Method: ANSI C63.10 (2013) Section 6.8

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C      Humidity: 44.3 % RH      Atmospheric Pressure: 1005 mbar

### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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). Only the data of worst case is recorded in the report.
Final test	05	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). Only the data of worst case is recorded in the report.
Final test	06	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). Only the data of worst case is recorded in the report.
Final test	07	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.

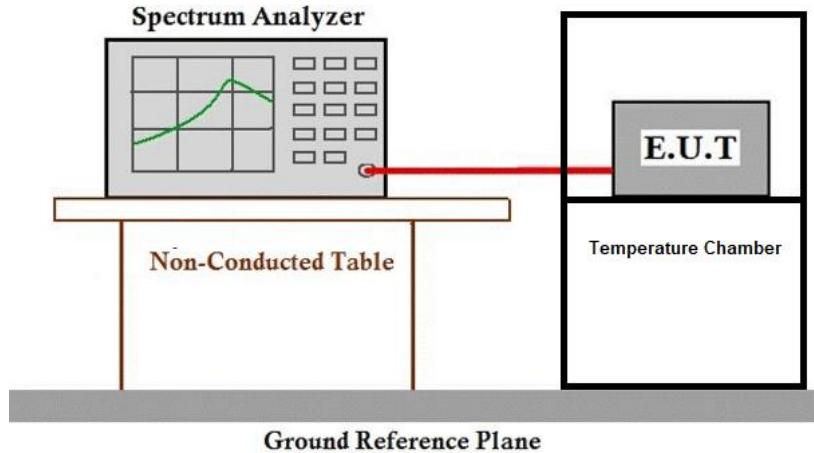
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**7.9.3 Test Setup Diagram****7.9.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

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**7.10 Radiated Emissions (Below 1GHz)**

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

Test Method: KDB 789033 D02 II G

Test Distance: 3 m

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

**7.10.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.6 °C      Humidity: 52 % RH      Atmospheric Pressure: 1005 mbar

**7.10.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	04	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). Only the data of worst case is recorded in the report.
Pre-scan	05	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). Only the data of worst case is recorded in the report.
Pre-scan	06	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). Only the data of worst case is recorded in the report.

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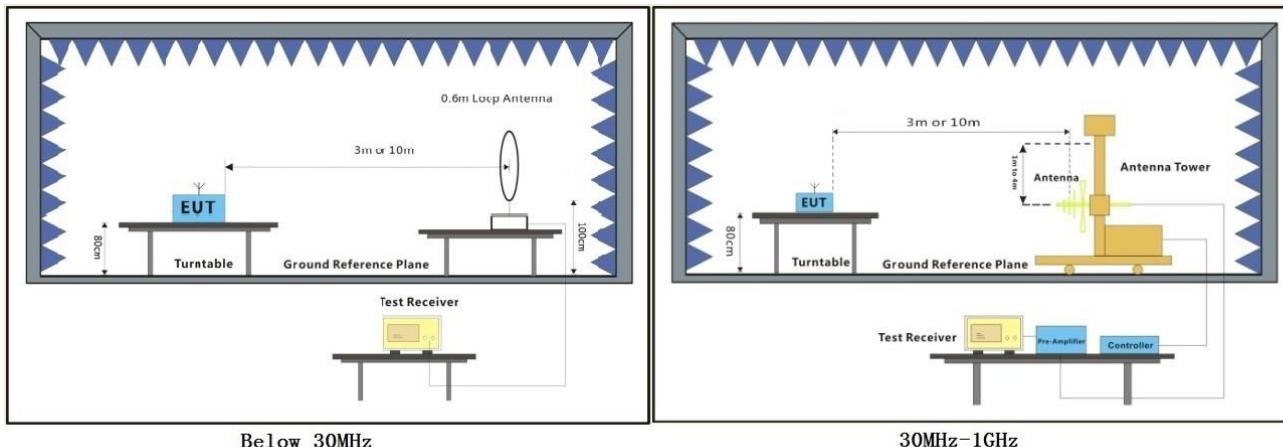


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Pre-scan 07

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.

### 7.10.3 Test Setup Diagram



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**7.10.4 Measurement Procedure and Data**

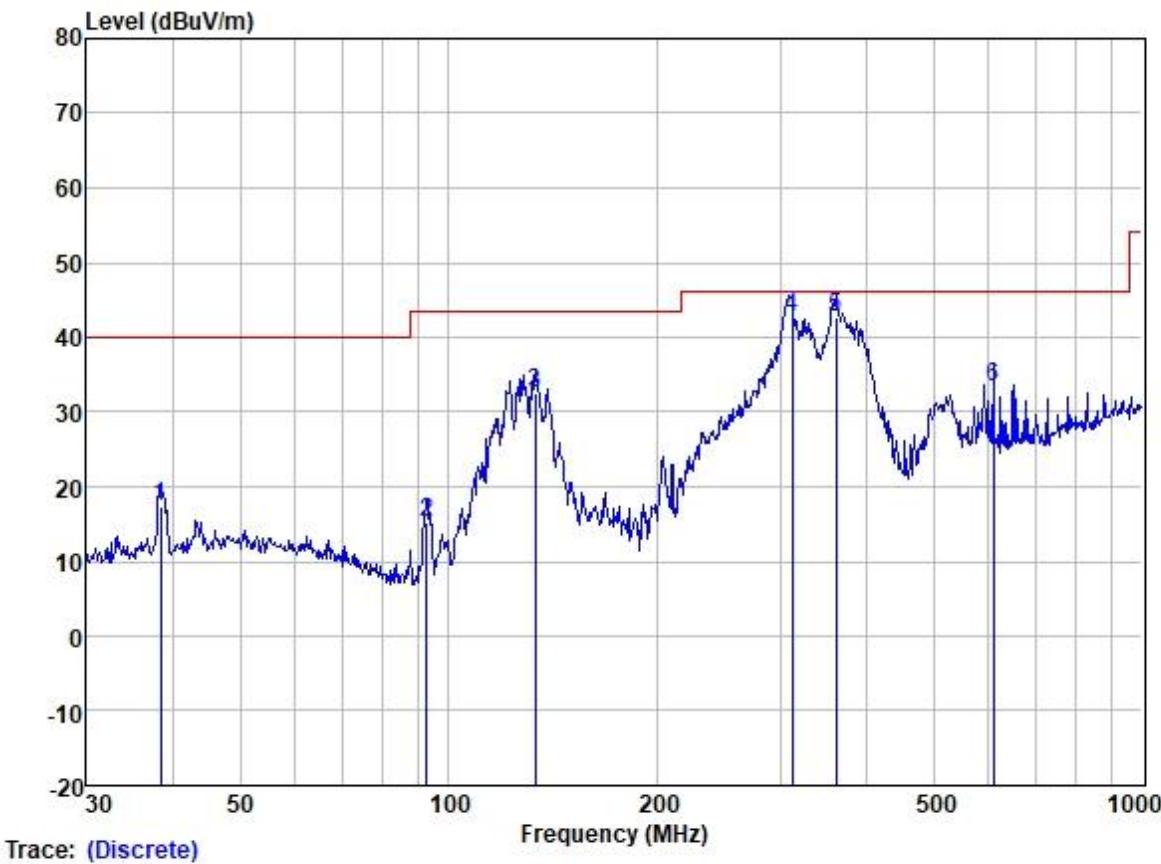
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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.



Test Mode: 00; Polarity: Horizontal



Site : SGS  
Job :  
Model :  
Power :  
Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 38.346	30.59	12.86	1.09	27.18	17.36	40.00	-22.64	HORIZONTAL	QP
2 92.787	32.98	7.73	1.65	27.08	15.28	43.50	-28.22	HORIZONTAL	QP
3 133.151	45.21	12.19	1.99	26.97	32.42	43.50	-11.08	HORIZONTAL	QP
4 312.179	52.46	13.50	3.26	26.61	42.61	46.00	-3.39	HORIZONTAL	QP
5 361.714	51.71	14.49	3.70	27.13	42.77	46.00	-3.23	HORIZONTAL	QP
6 609.922	36.39	19.92	5.18	28.21	33.28	46.00	-12.72	HORIZONTAL	QP

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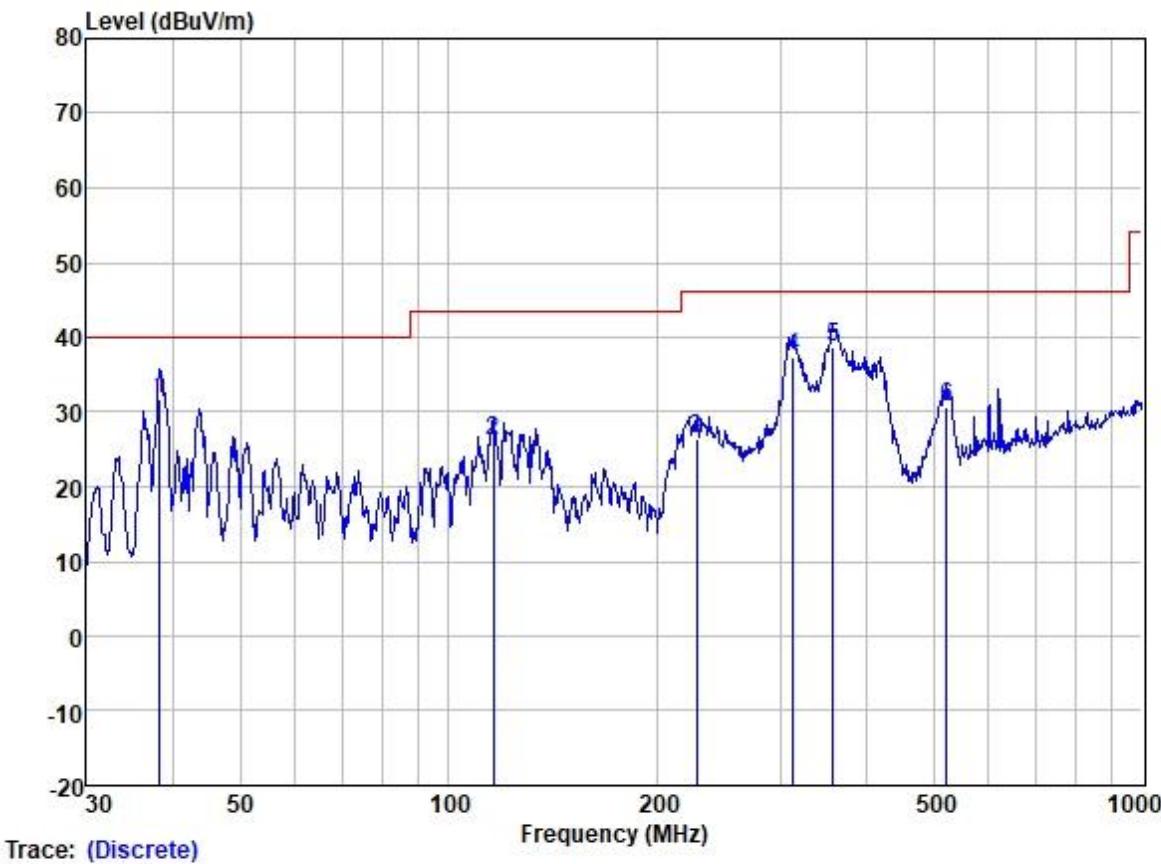
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Test Mode: 00; Polarity: Vertical



Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 38.212	44.87	12.84	1.09	27.18	31.62	40.00	-8.38	VERTICAL	QP
2 115.726	40.75	10.56	1.83	27.04	26.10	43.50	-17.40	VERTICAL	QP
3 227.691	40.22	10.16	2.71	26.69	26.40	46.00	-19.60	VERTICAL	QP
4 313.276	47.11	13.52	3.26	26.62	37.27	46.00	-8.73	VERTICAL	QP
5 357.929	47.59	14.35	3.70	27.09	38.55	46.00	-7.45	VERTICAL	QP
6 522.718	36.10	18.08	4.55	28.02	30.71	46.00	-15.29	VERTICAL	QP

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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photos for GZCR220400040903



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## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2204000409AT



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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	1.429	1.530	93.40	0.30	0.03
		5200	1.429	1.530	93.40	0.30	0.03
		5240	1.429	1.529	93.46	0.29	0.03
		5260	1.429	1.530	93.40	0.30	0.03
		5300	1.429	1.530	93.40	0.30	0.03
		5320	1.428	1.529	93.39	0.30	0.03
		5500	1.429	1.530	93.40	0.30	0.03
		5580	1.429	1.530	93.40	0.30	0.03
		5700	1.429	1.529	93.46	0.29	0.03
		5745	1.429	1.530	93.40	0.30	0.03
		5785	1.429	1.530	93.40	0.30	0.03
		5825	1.429	1.530	93.40	0.30	0.03
802.11n (HT20)	SISO	5180	0.364	0.466	78.11	1.07	0.07
		5200	0.365	0.466	78.33	1.06	0.07
		5240	0.365	0.466	78.33	1.06	0.08
		5260	0.370	0.466	79.40	1.00	0.13
		5300	0.365	0.466	78.33	1.06	0.04
		5320	0.369	0.465	79.35	1.00	0.07
		5500	0.365	0.466	78.33	1.06	0.04
		5580	0.370	0.466	79.40	1.00	0.06
		5700	0.365	0.466	78.33	1.06	0.10
		5745	0.370	0.466	79.40	1.00	0.10
		5785	0.369	0.465	79.35	1.00	0.06
		5825	0.369	0.465	79.35	1.00	0.10
802.11n (HT40)	SISO	5190	0.201	0.298	67.45	1.71	0.18
		5230	0.200	0.297	67.34	1.72	0.10
		5270	0.196	0.297	65.99	1.81	0.17
		5310	0.201	0.298	67.45	1.71	0.11
		5510	0.201	0.297	67.68	1.70	0.15
		5550	0.201	0.298	67.45	1.71	0.09

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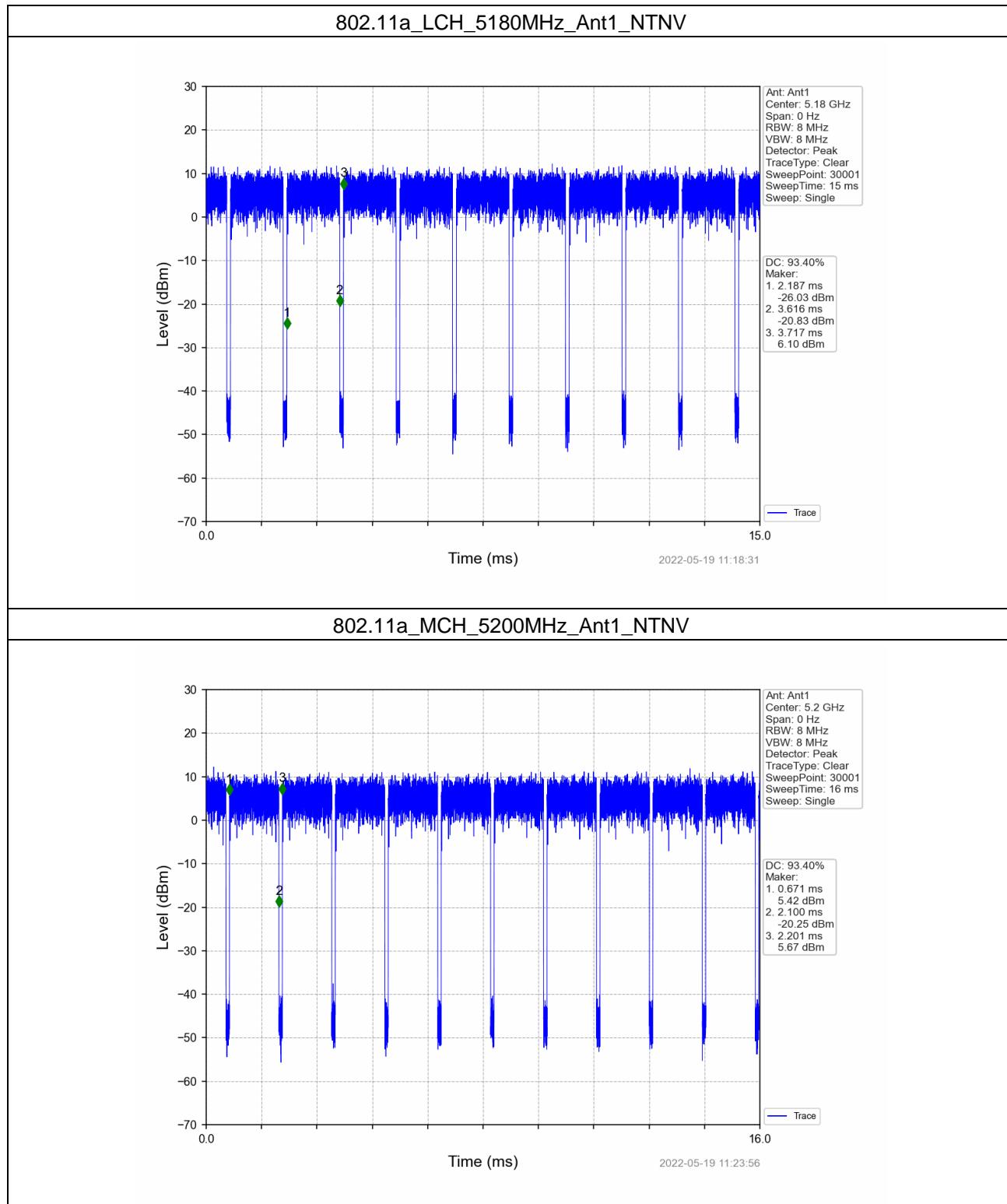
		5670	0.196	0.297	65.99	1.81	0.12
		5755	0.198	0.298	66.44	1.78	0.13
		5795	0.201	0.298	67.45	1.71	0.10
802.11ac (VHT20)	SISO	5180	0.370	0.470	78.72	1.04	0.08
		5200	0.369	0.470	78.51	1.05	0.06
		5240	0.370	0.470	78.72	1.04	0.06
		5260	0.369	0.469	78.68	1.04	0.10
		5300	0.369	0.470	78.51	1.05	0.07
		5320	0.369	0.470	78.51	1.05	0.04
		5500	0.374	0.470	79.57	0.99	0.07
		5580	0.369	0.469	78.68	1.04	0.07
		5700	0.369	0.470	78.51	1.05	0.11
		5745	0.369	0.470	78.51	1.05	0.09
		5785	0.371	0.470	78.94	1.03	0.08
		5825	0.374	0.470	79.57	0.99	0.13
802.11ac (VHT40)	SISO	5190	0.205	0.302	67.88	1.68	0.10
		5230	0.204	0.301	67.77	1.69	0.12
		5270	0.204	0.302	67.55	1.70	0.10
		5310	0.205	0.302	67.88	1.68	0.09
		5510	0.204	0.302	67.55	1.70	0.11
		5550	0.201	0.302	66.56	1.77	0.14
		5670	0.204	0.301	67.77	1.69	0.12
		5755	0.201	0.302	66.56	1.77	0.09
		5795	0.200	0.301	66.45	1.78	0.10
802.11ac (VHT80)	SISO	5210	0.116	0.217	53.46	2.72	0.09
		5290	0.117	0.218	53.67	2.70	0.15
		5530	0.119	0.218	54.59	2.63	0.25
		5610	0.116	0.217	53.46	2.72	0.04
		5775	0.119	0.217	54.84	2.61	0.17

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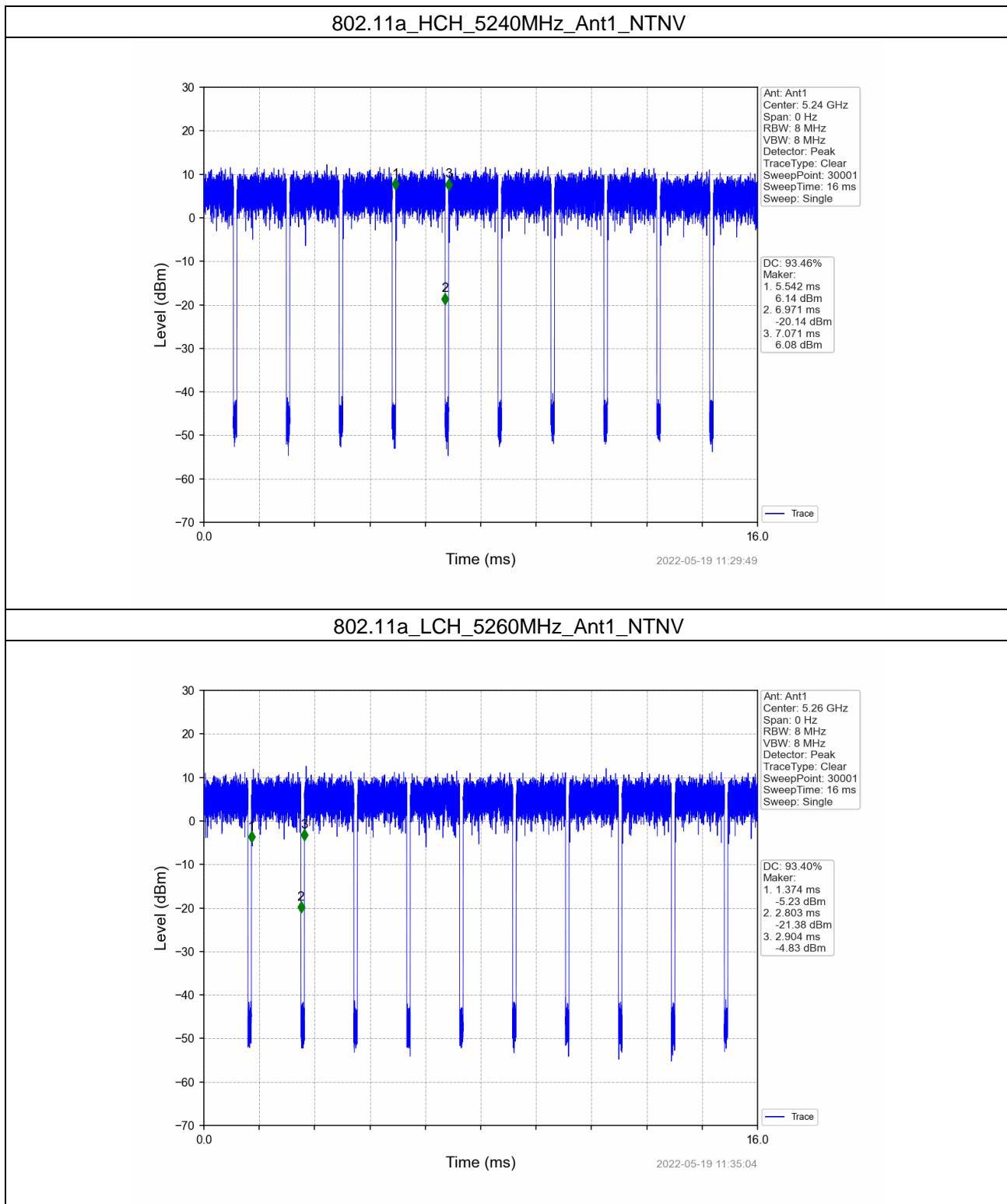


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**1.1.2 Test Graph**

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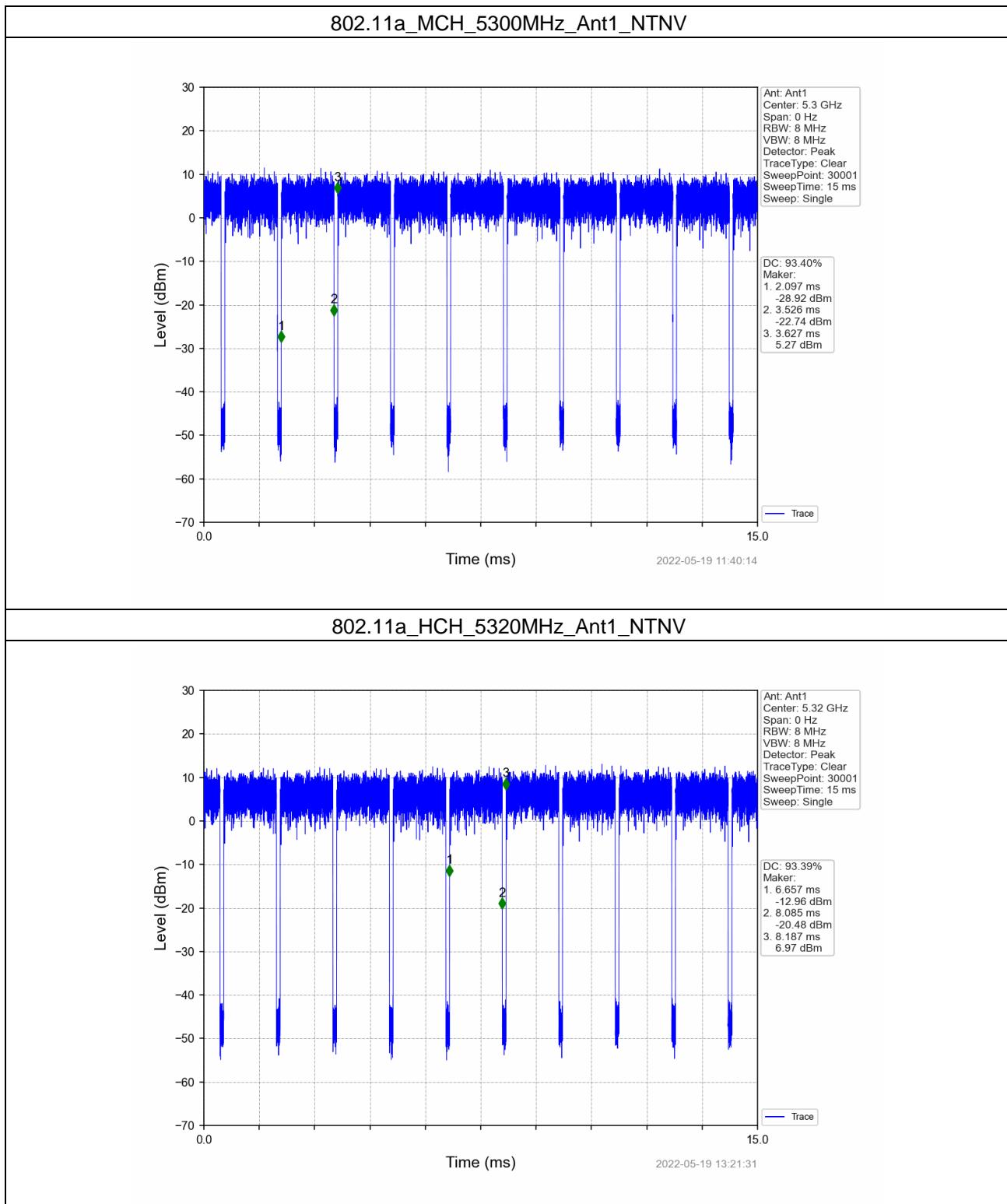


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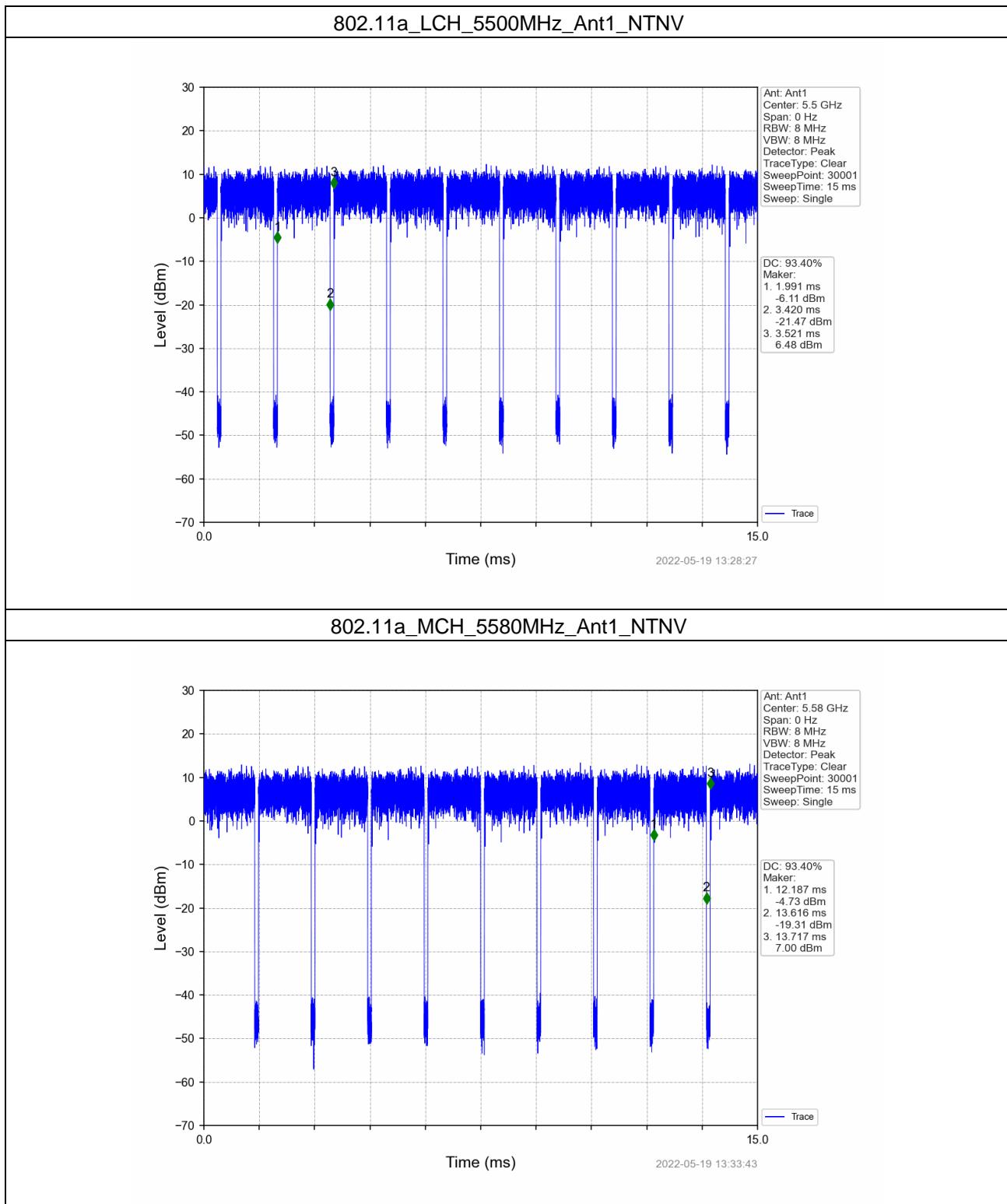


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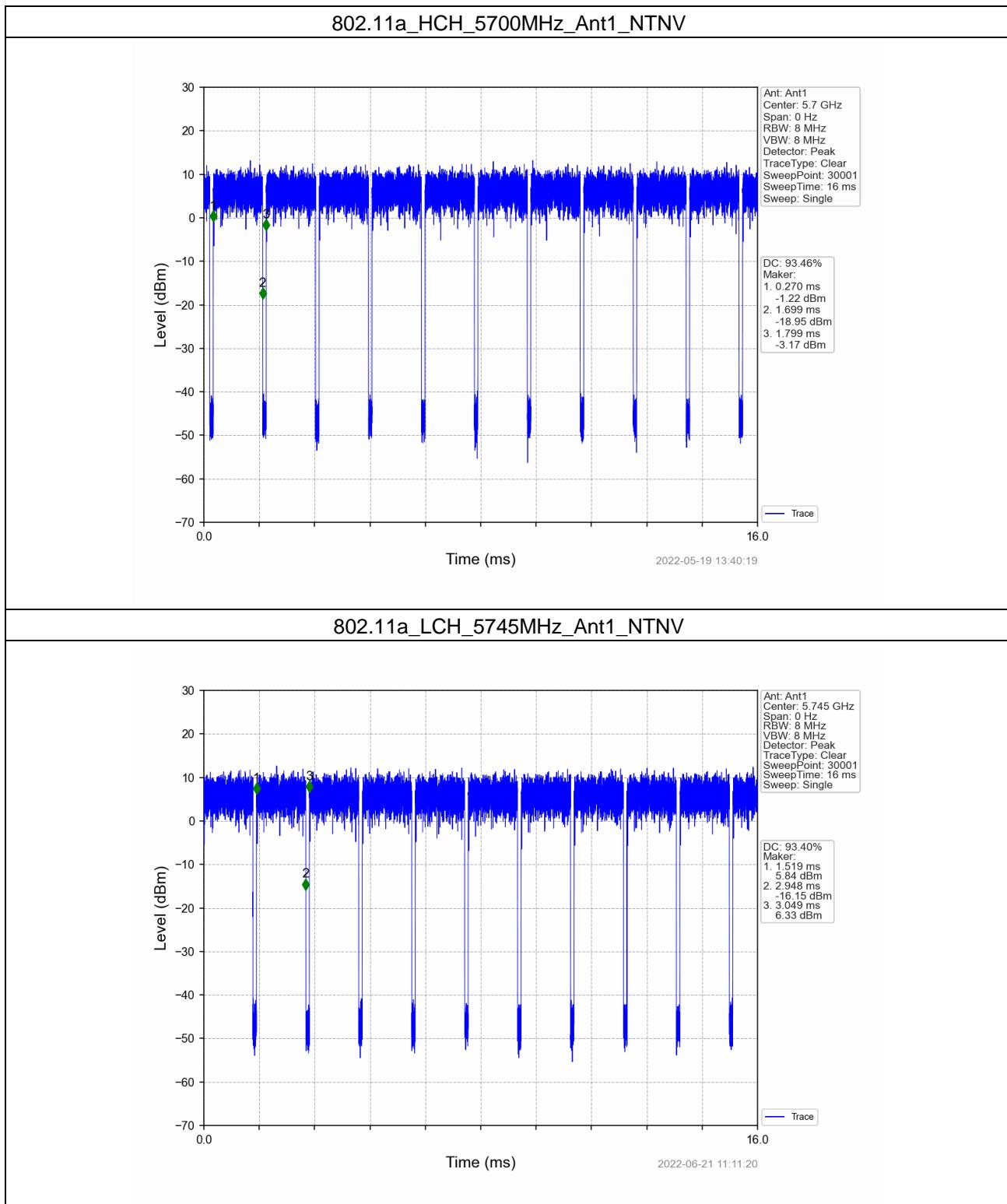


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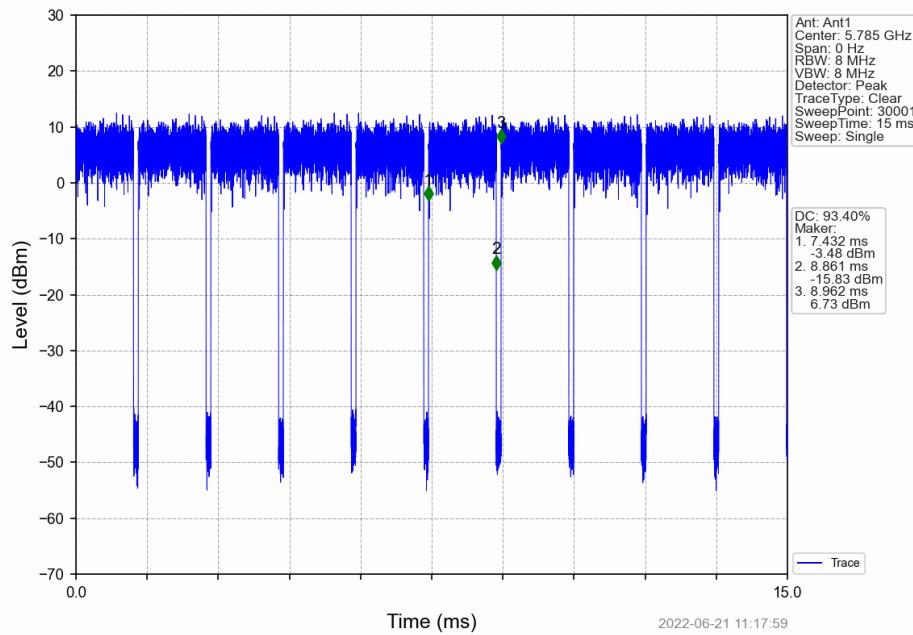
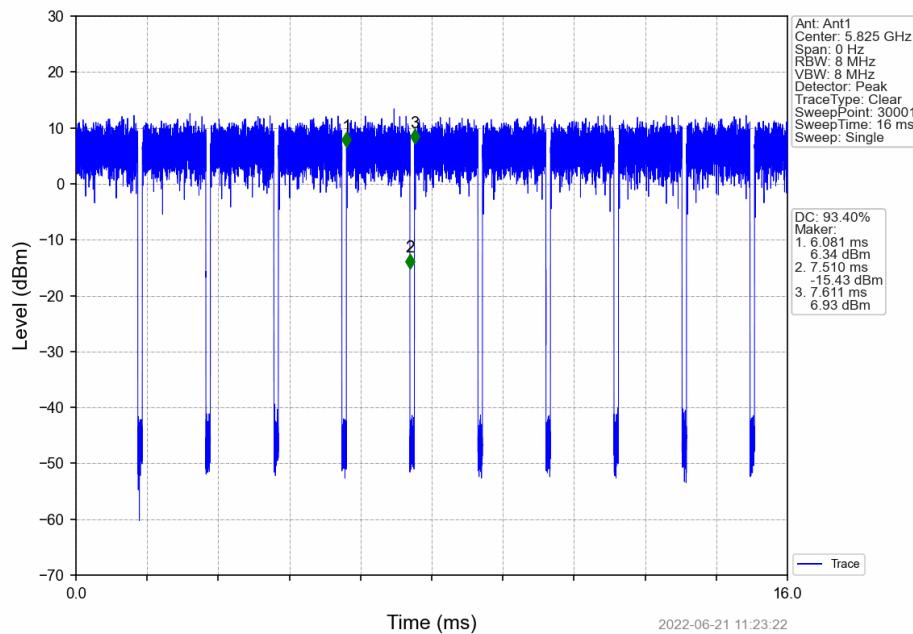


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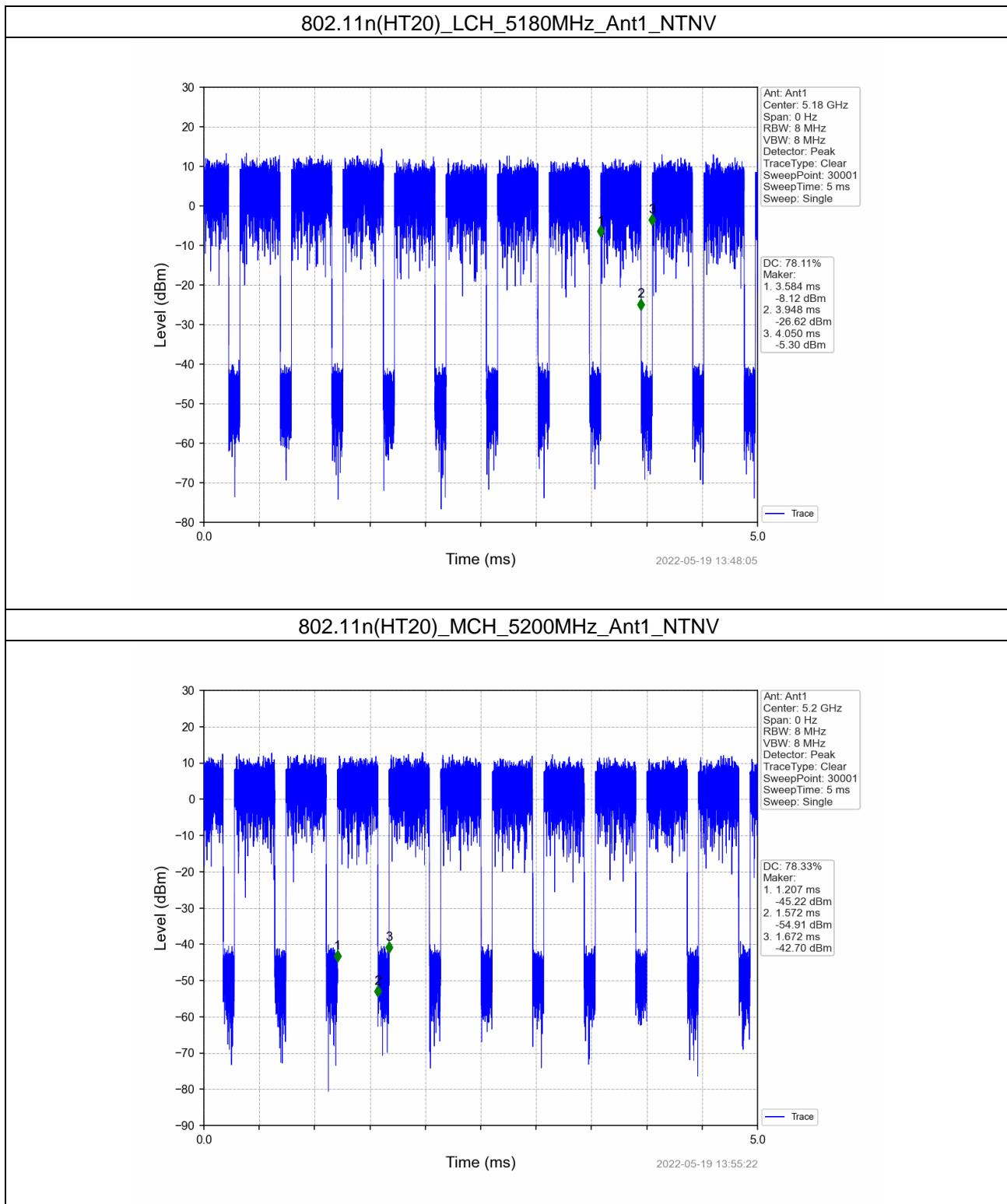
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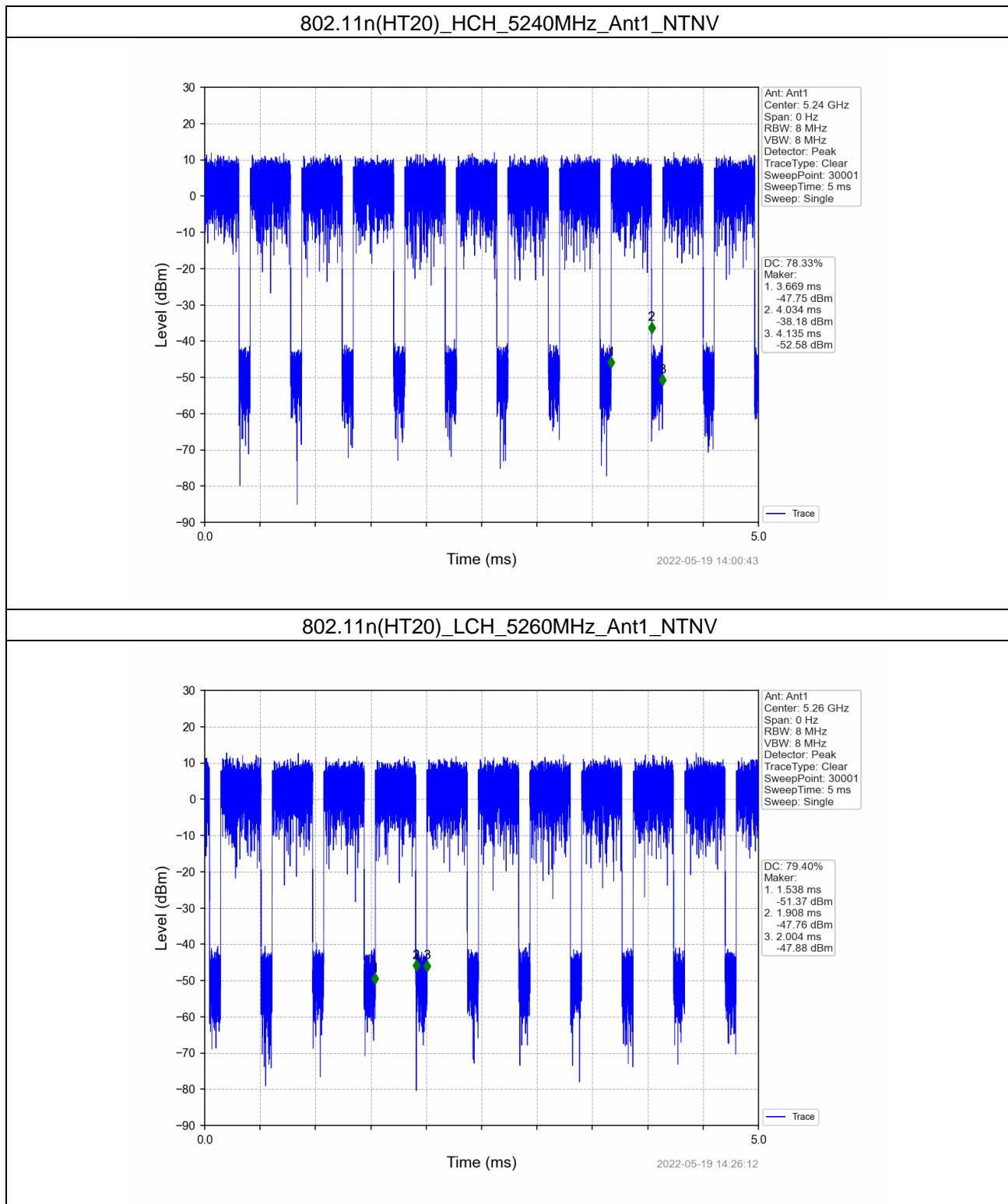
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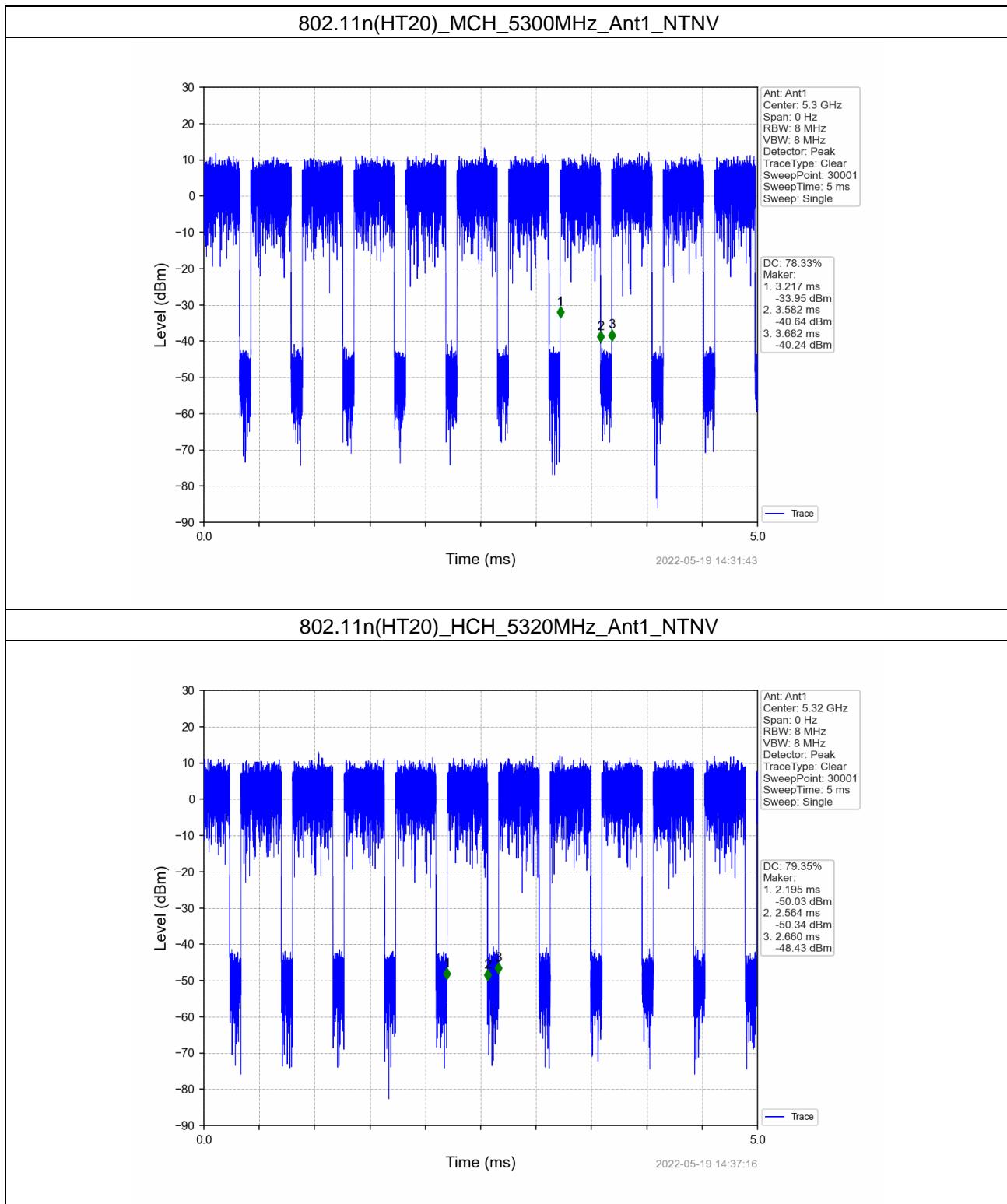


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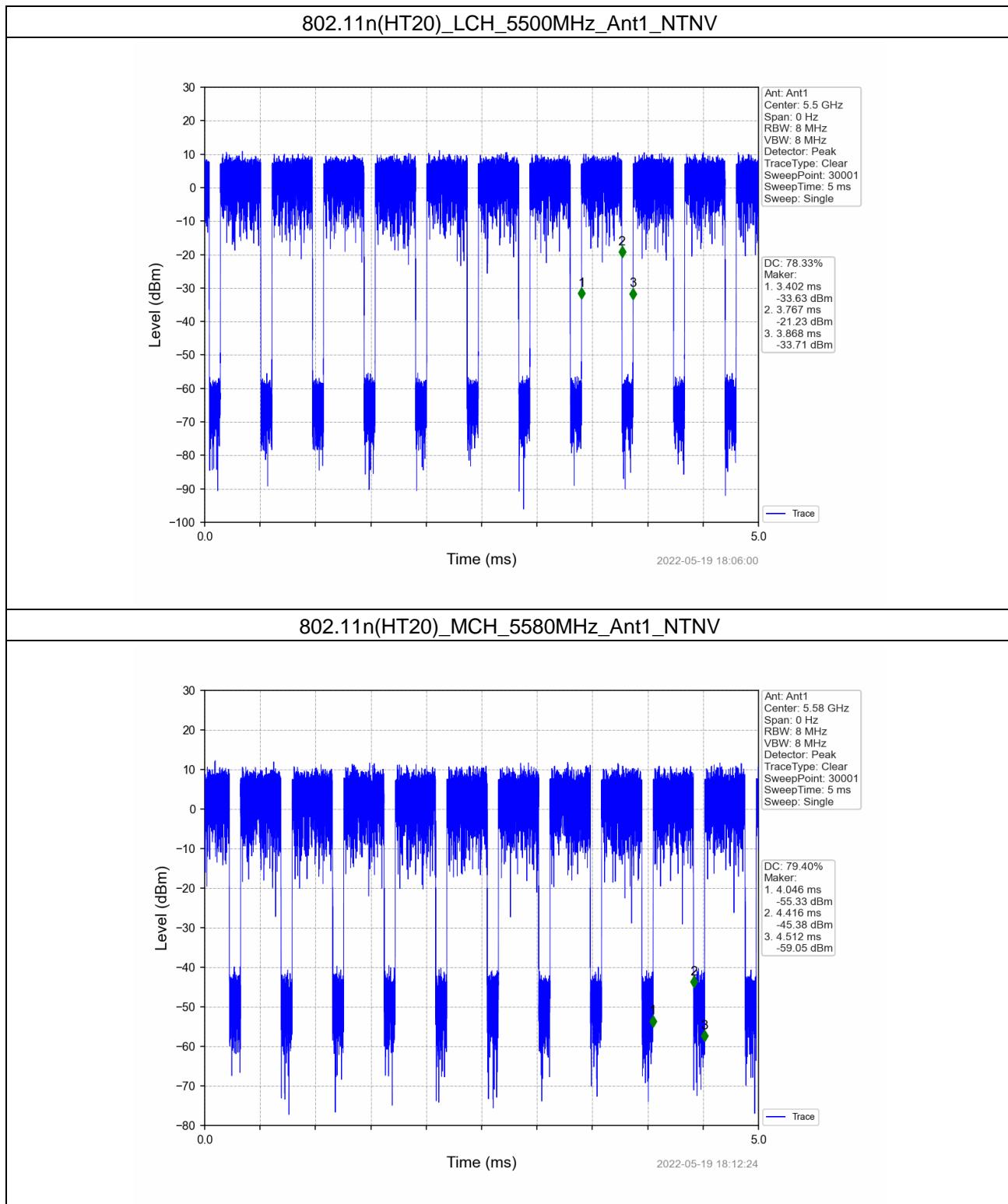
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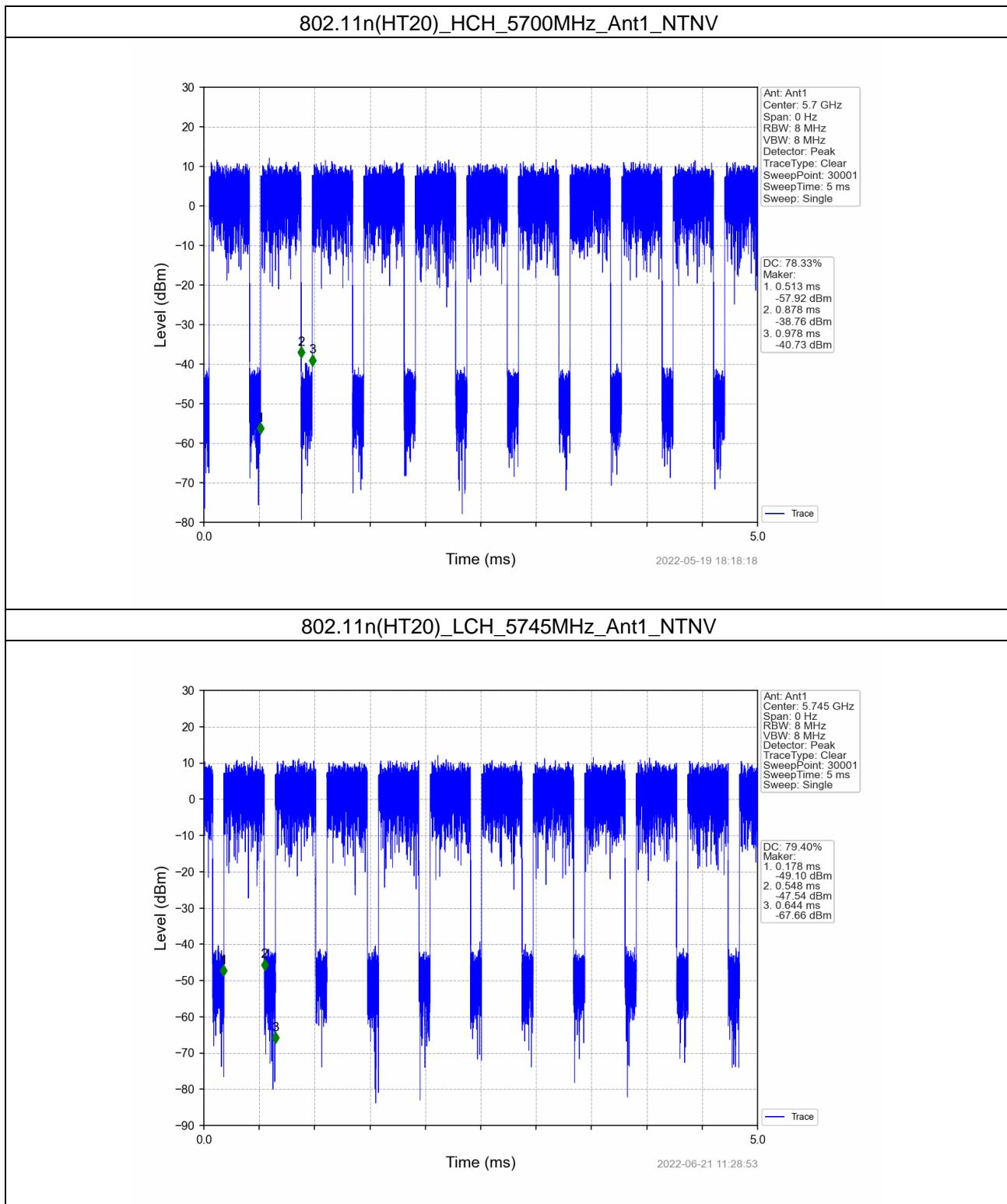
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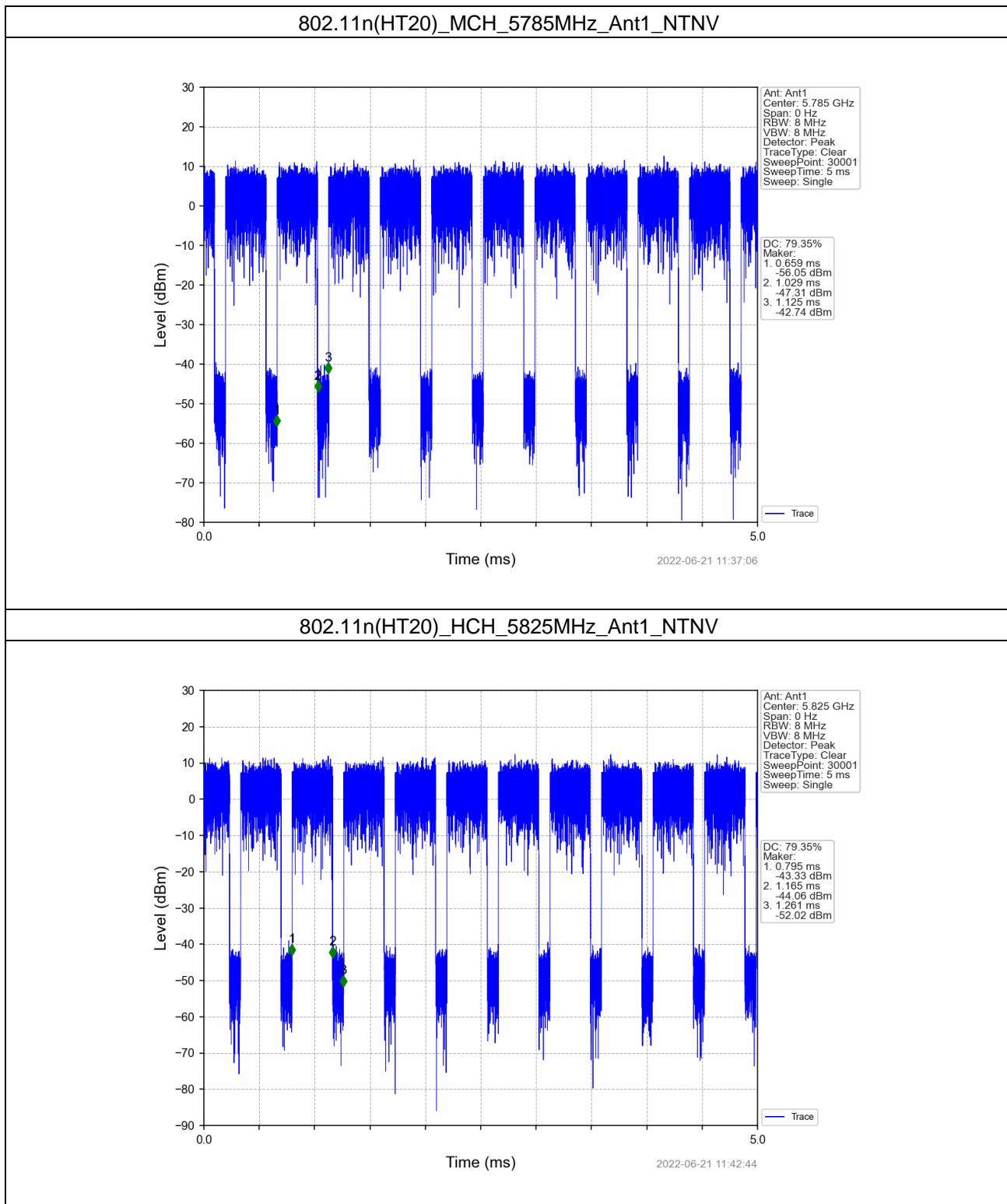
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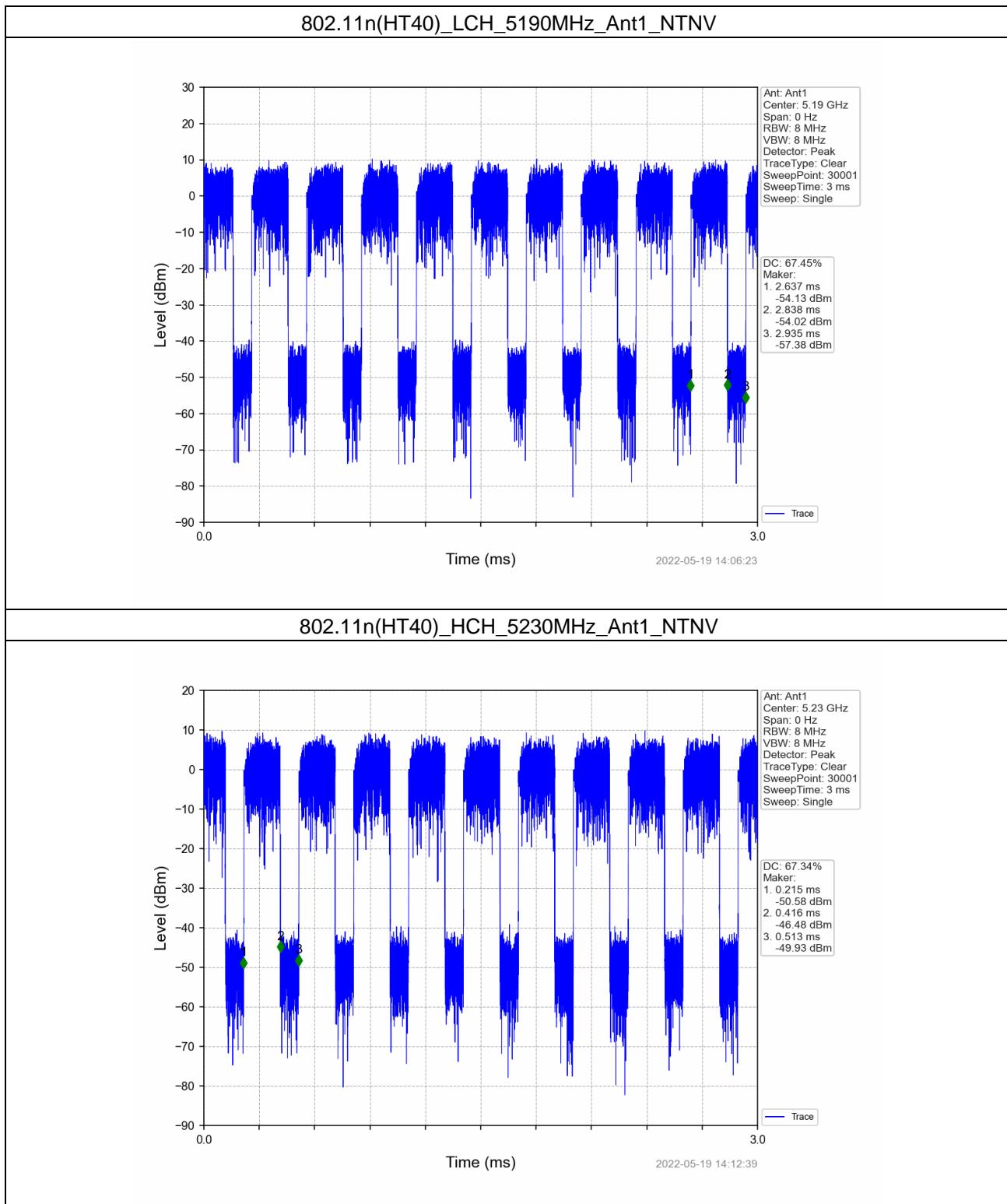
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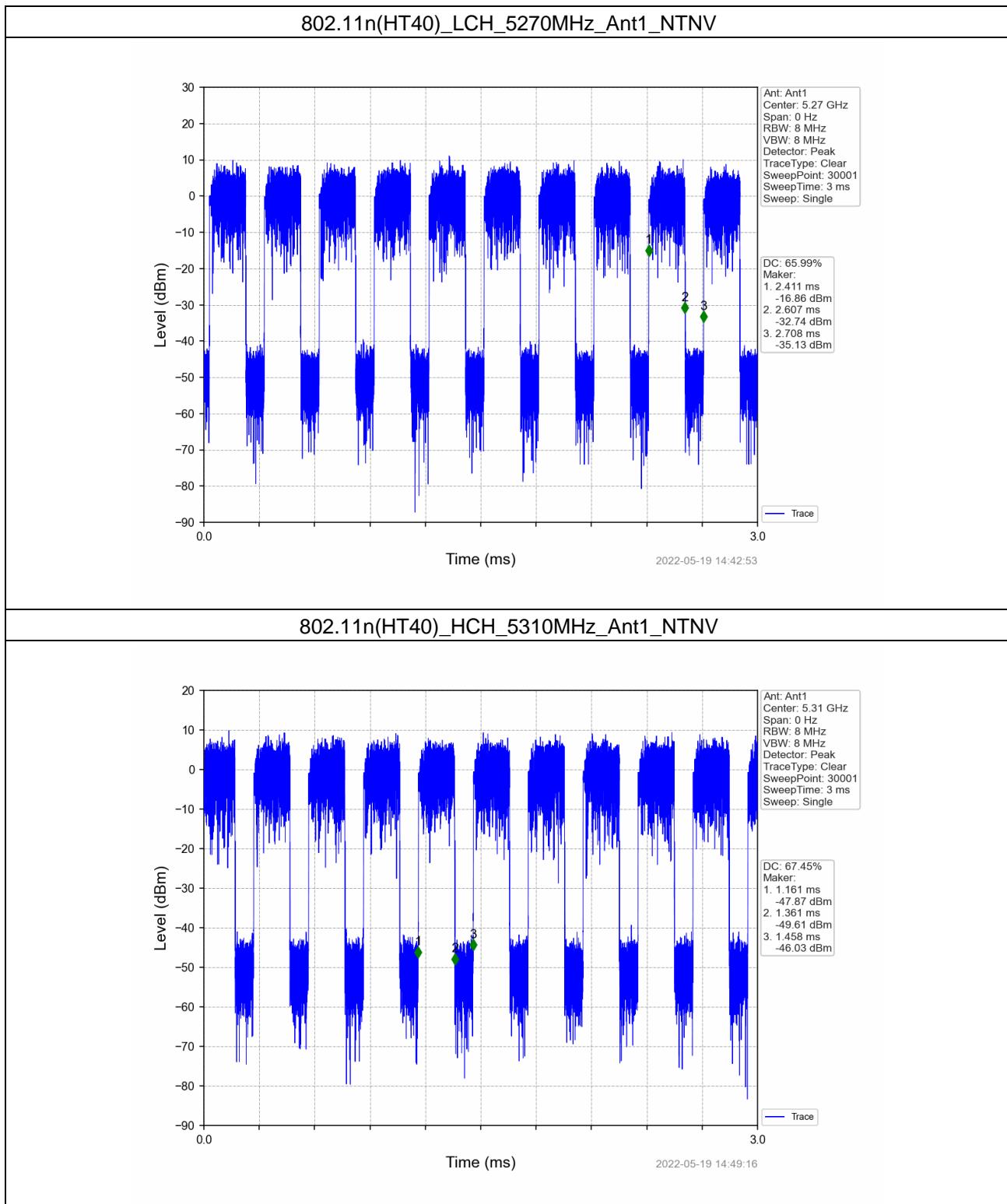


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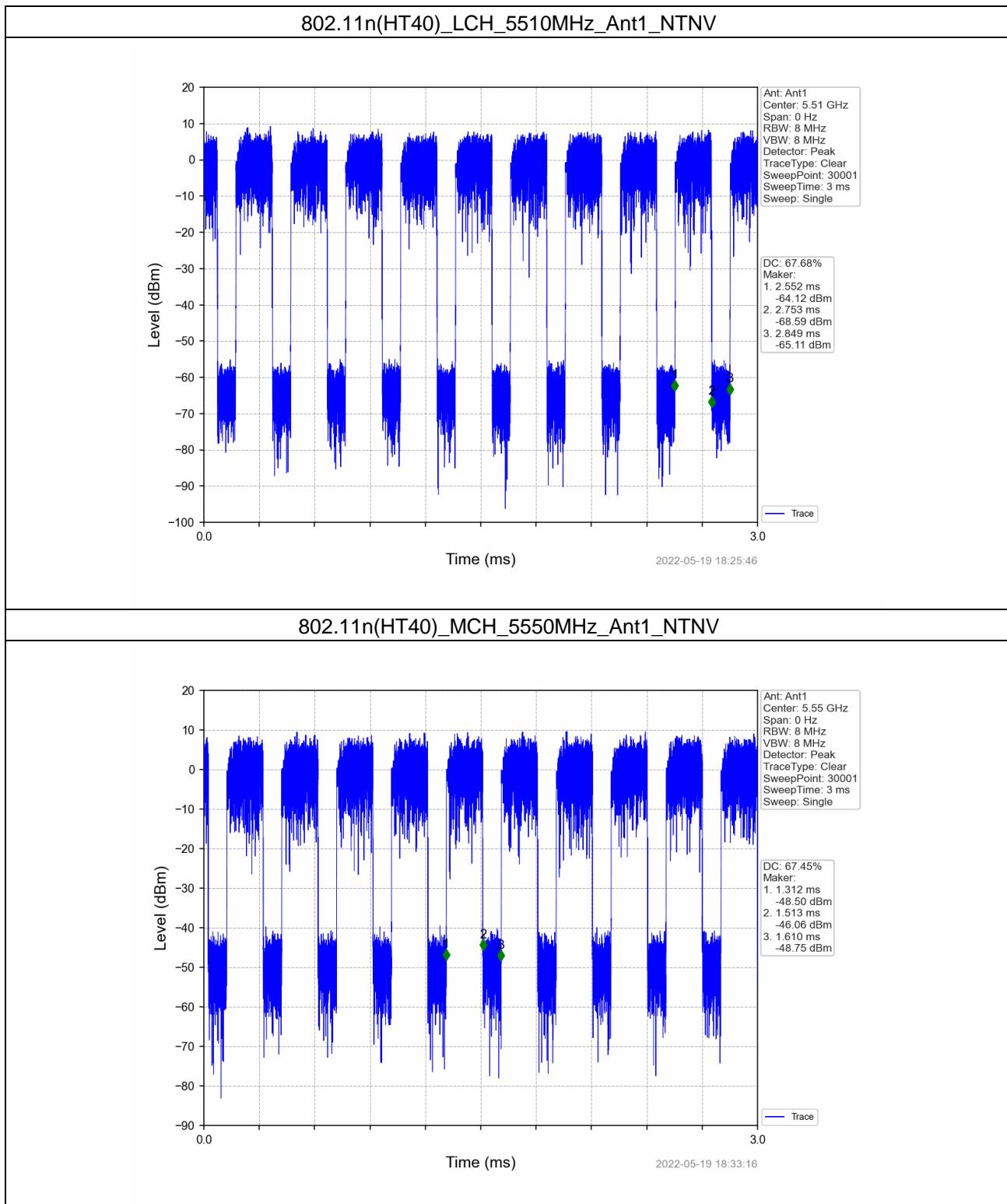
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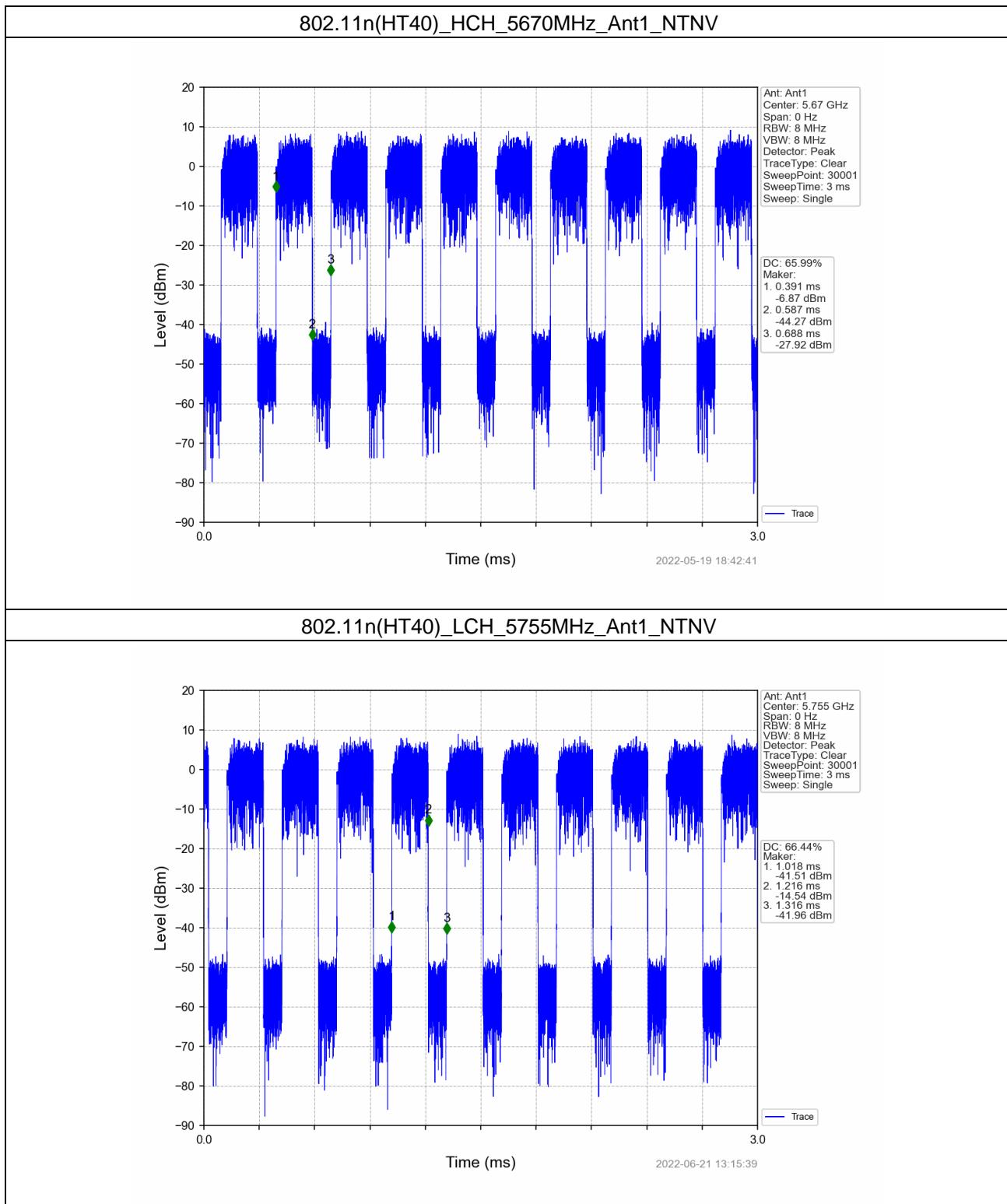


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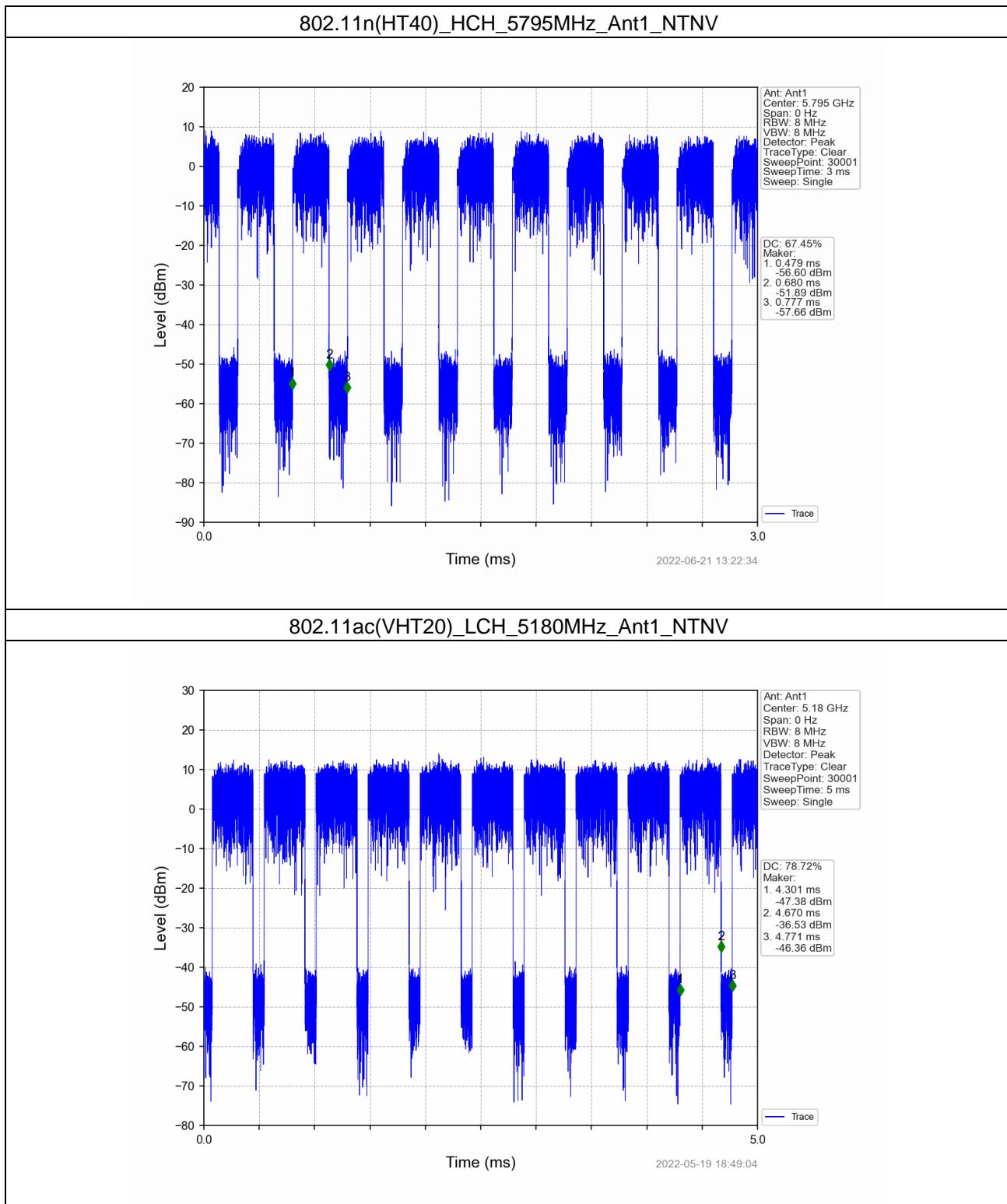


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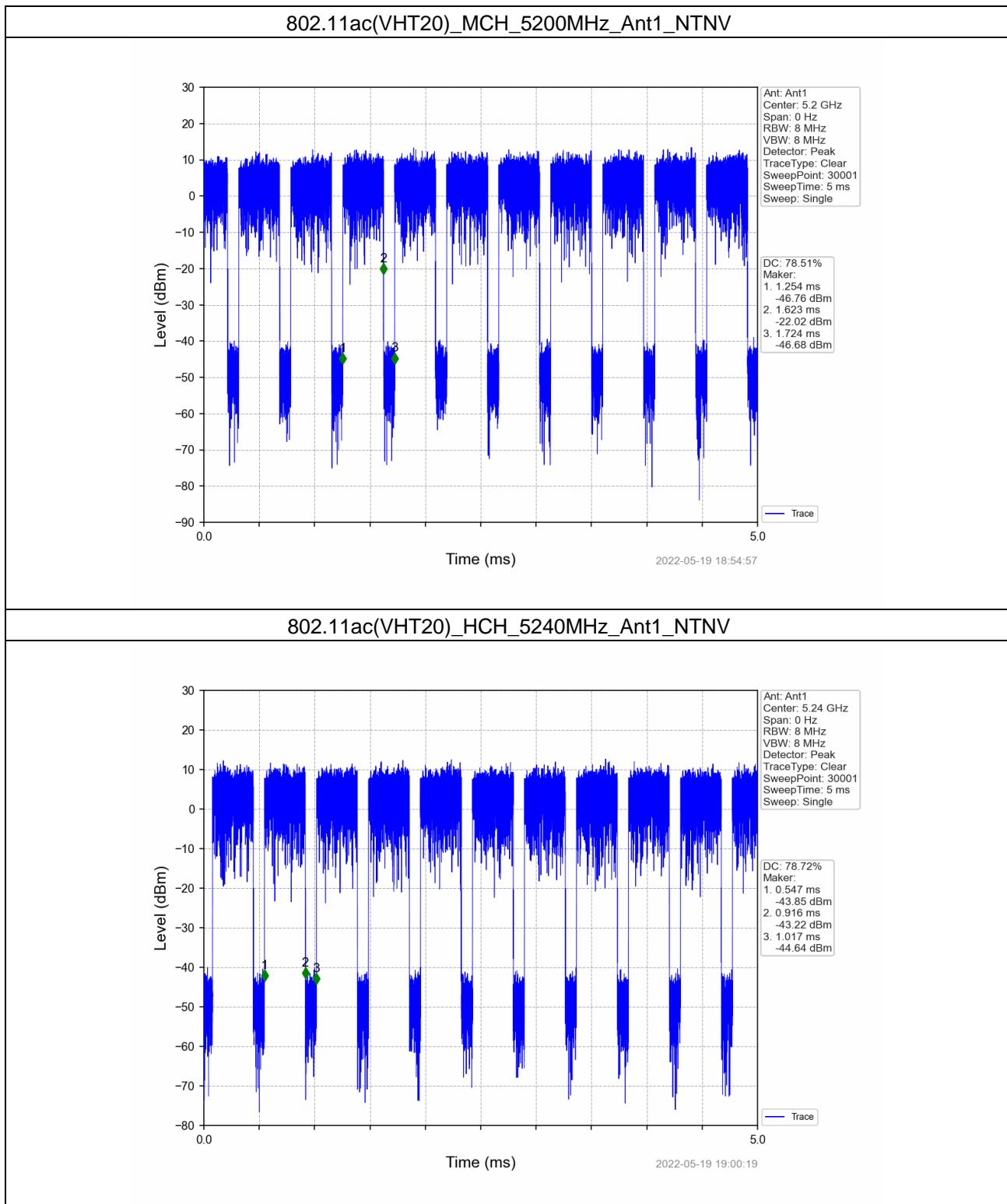


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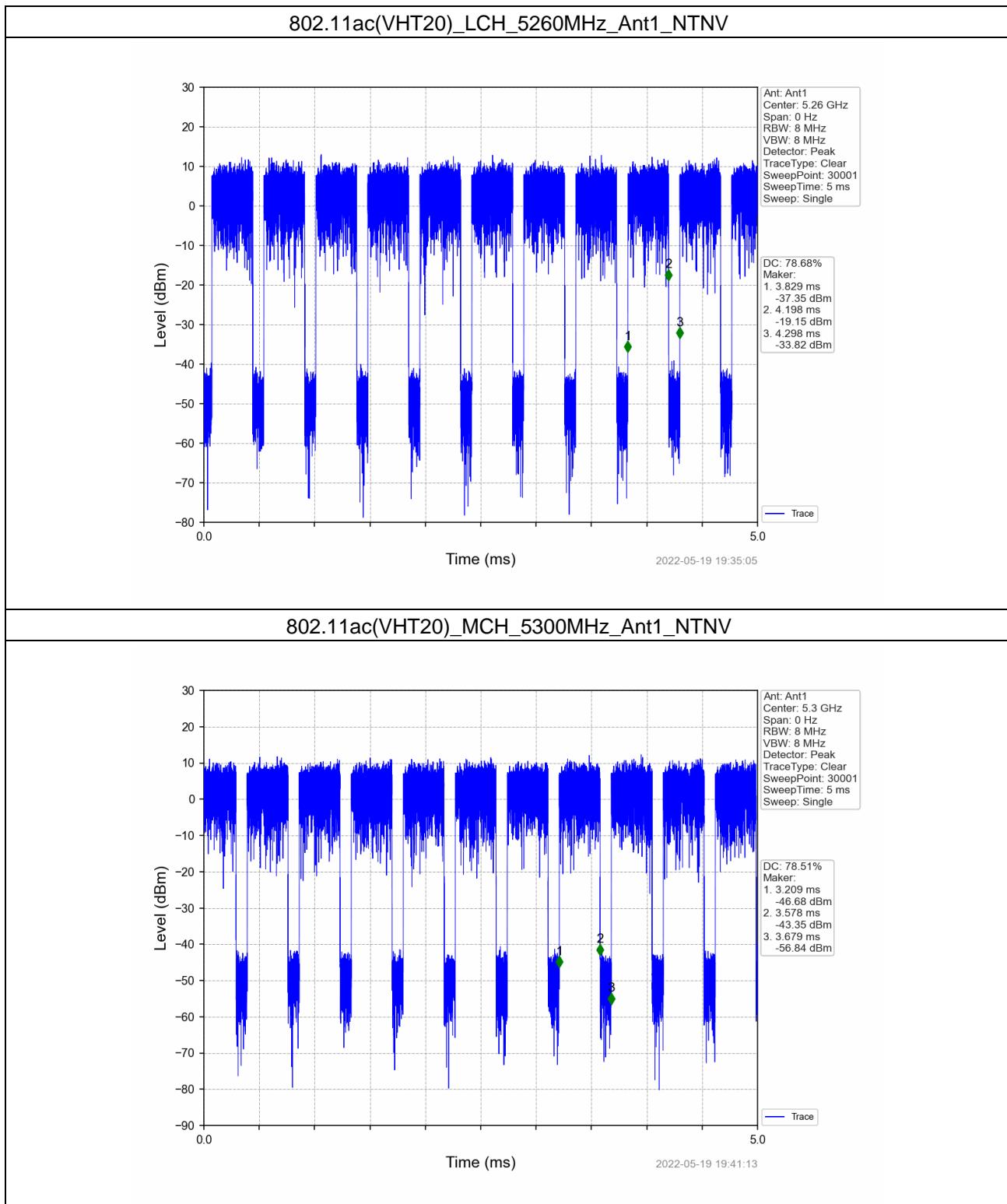


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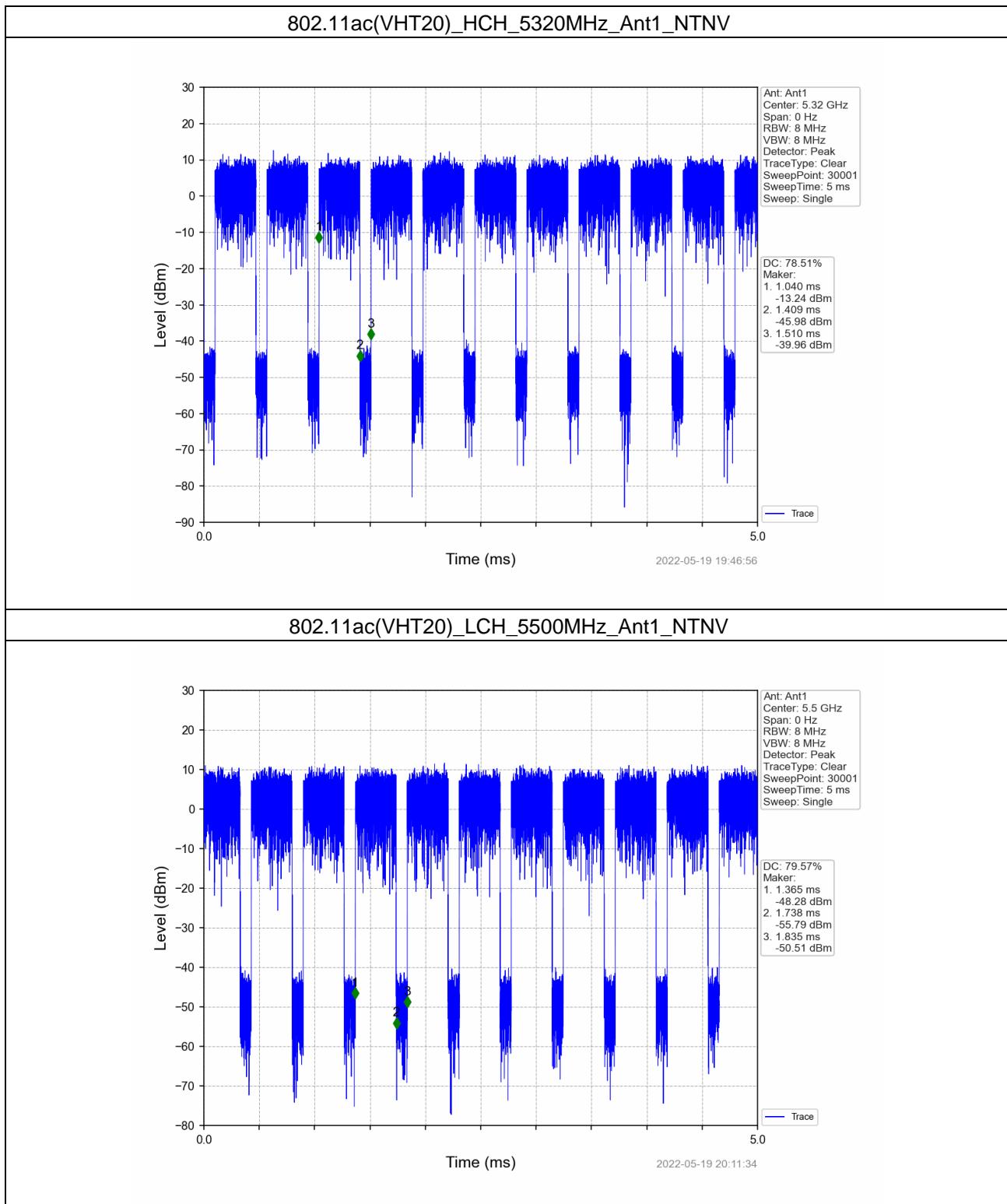
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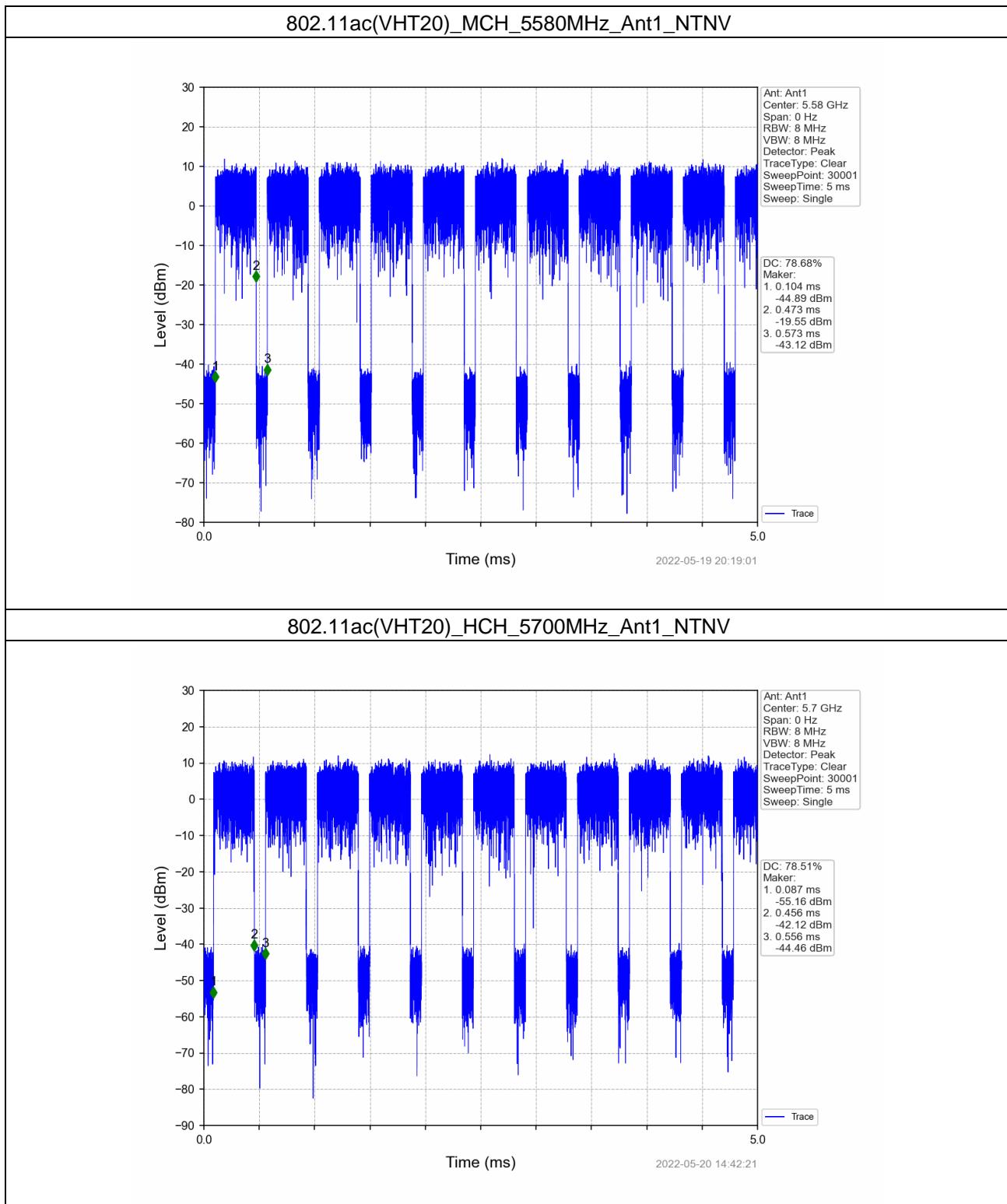


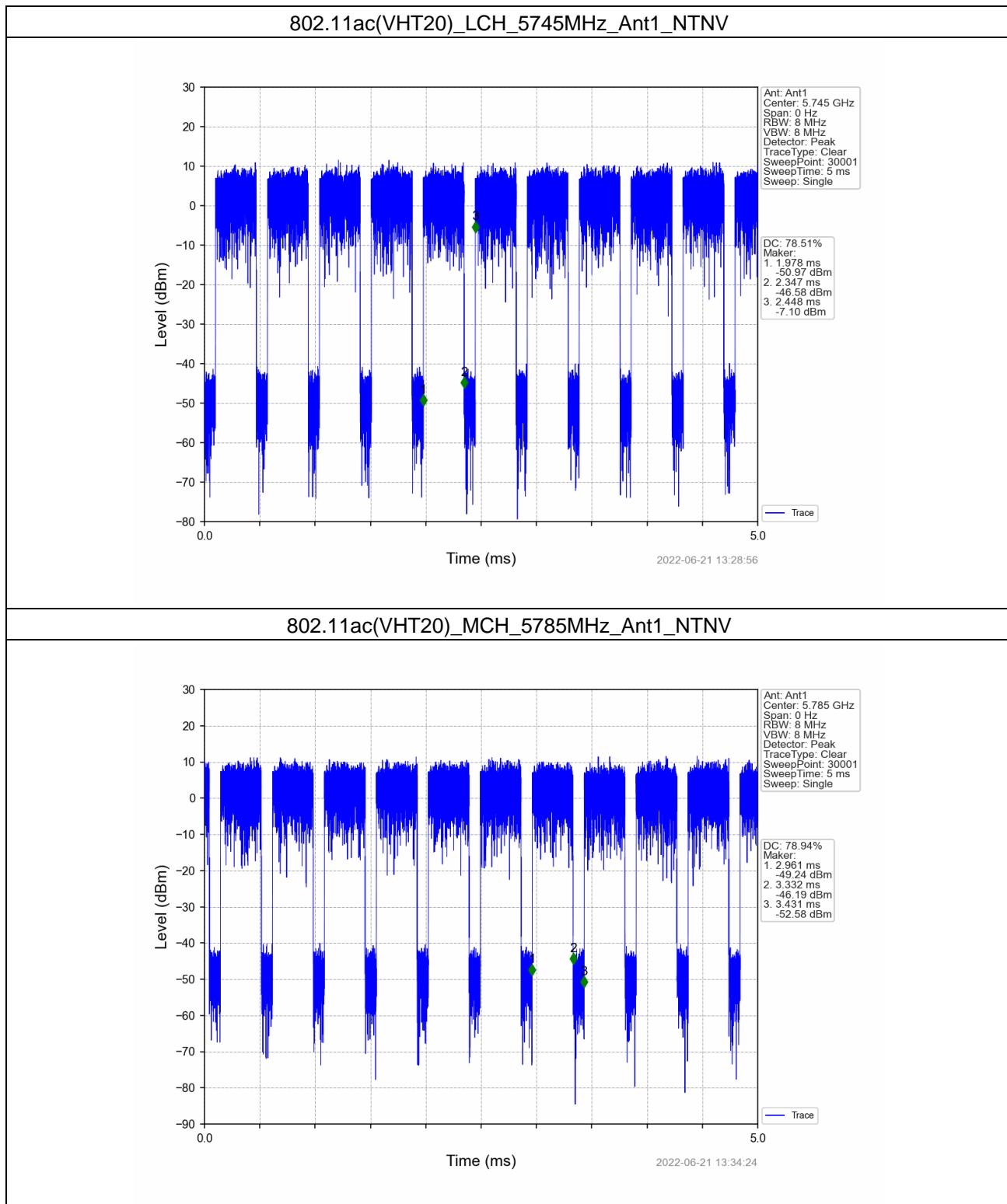
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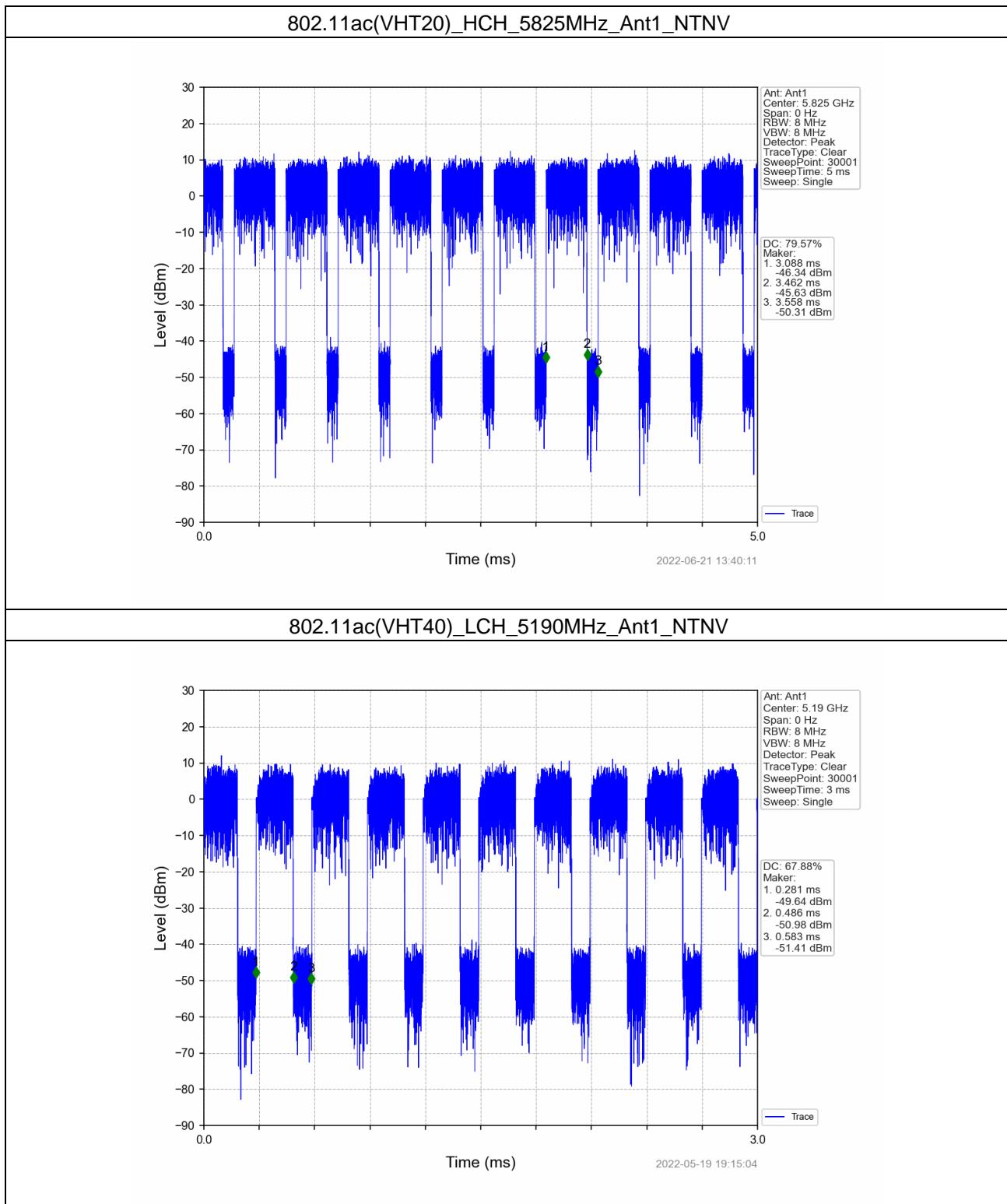


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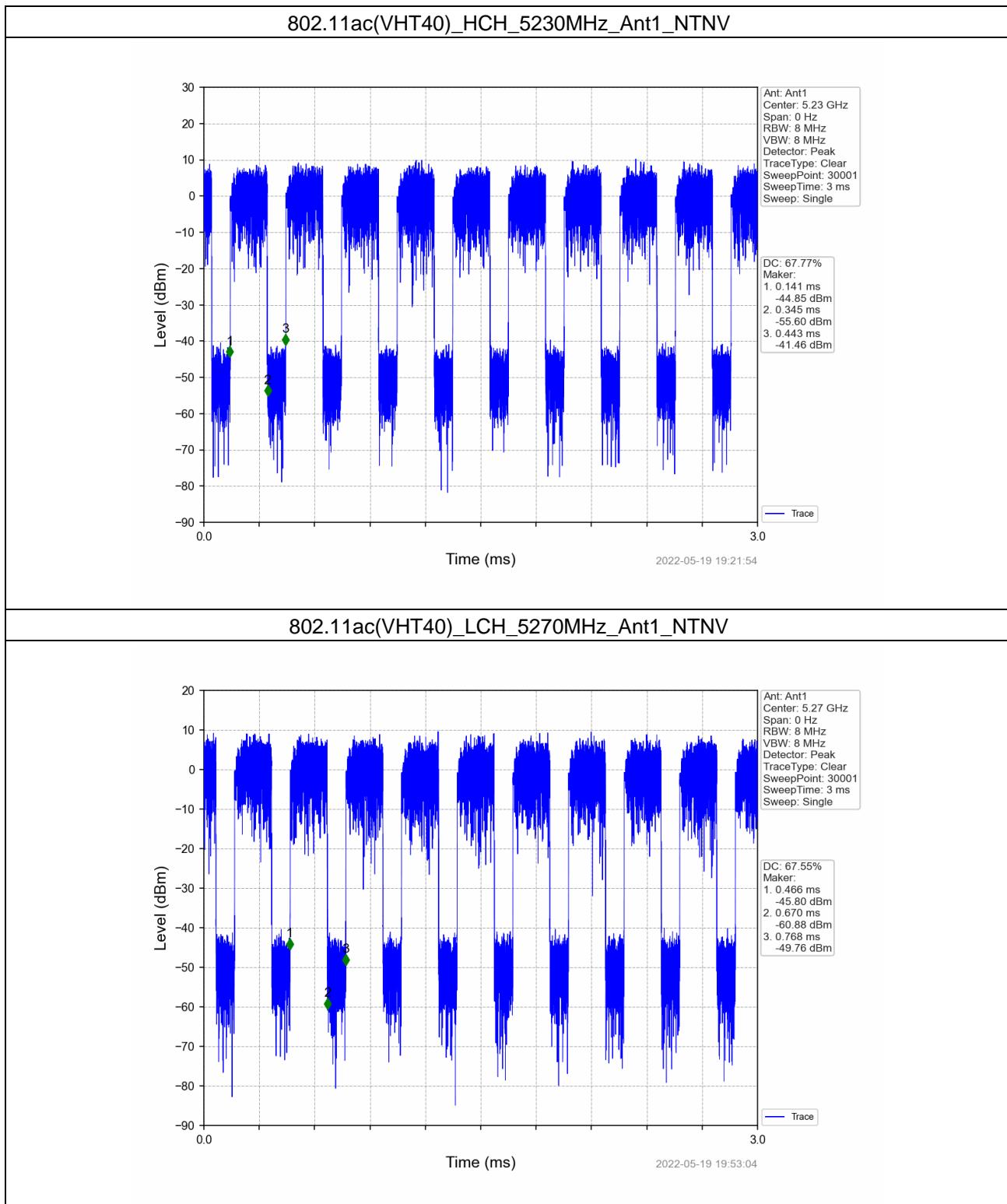


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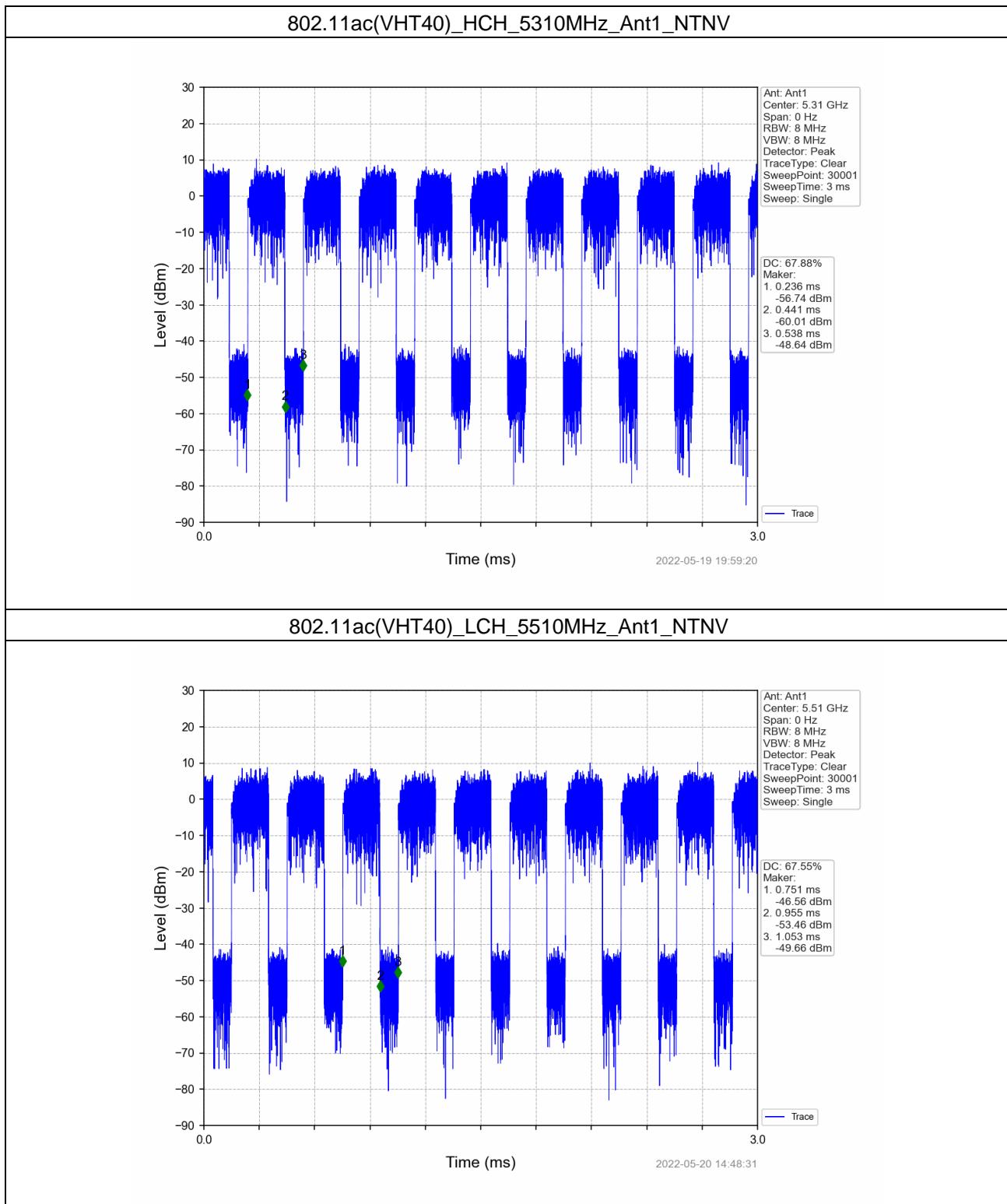


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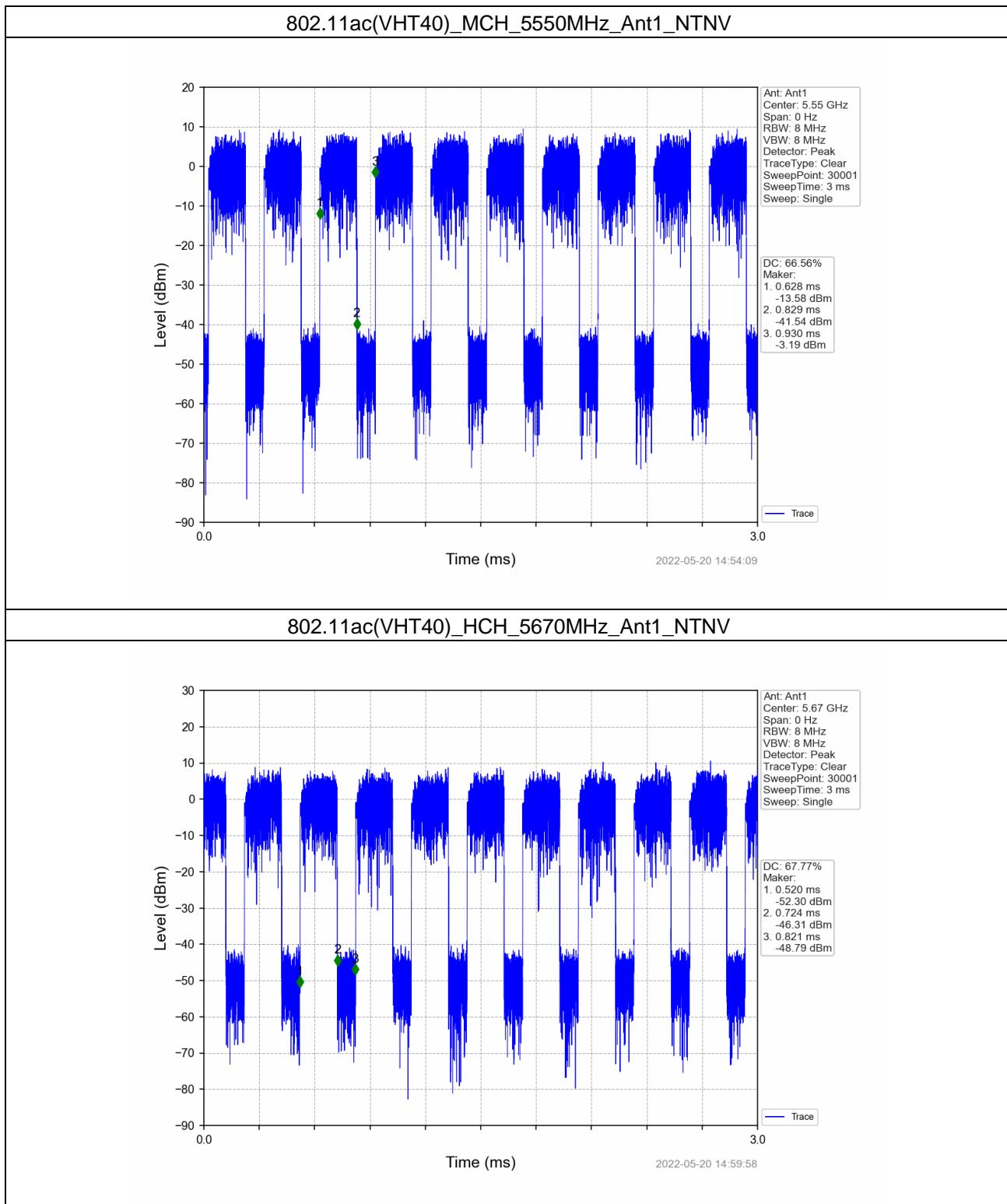
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