

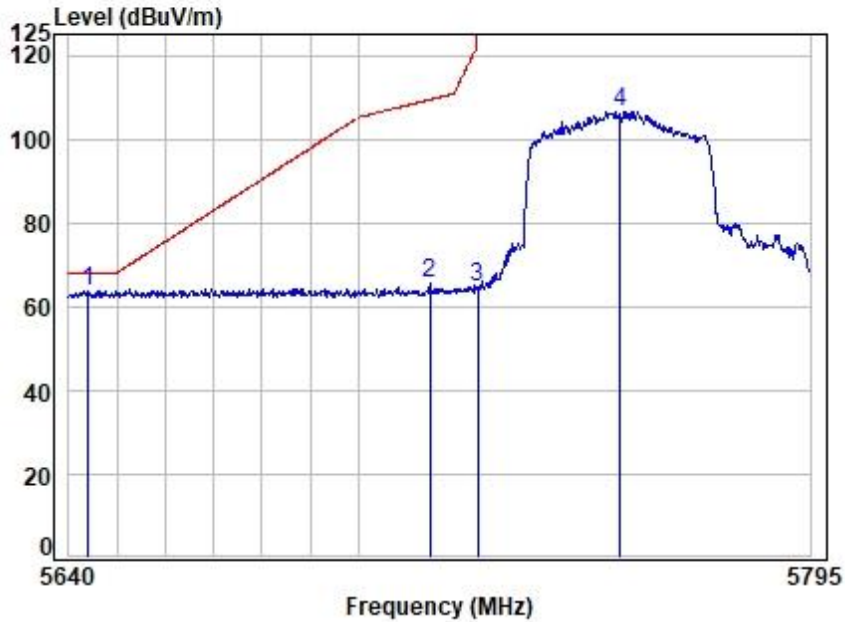
## Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200050503

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00504AT/00505AT  
 Mode : 5755 Band edge  
 : 5G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5644.130	8.08	32.54	32.24	55.54	63.92	68.20	-4.28 peak
2	5715.000	7.99	32.51	32.21	57.23	109.40	-43.88	peak
3	5725.000	7.98	32.51	32.21	56.48	122.20	-57.44	peak
4	5755.000	7.94	32.50	32.20	98.44	106.68	-----	peak



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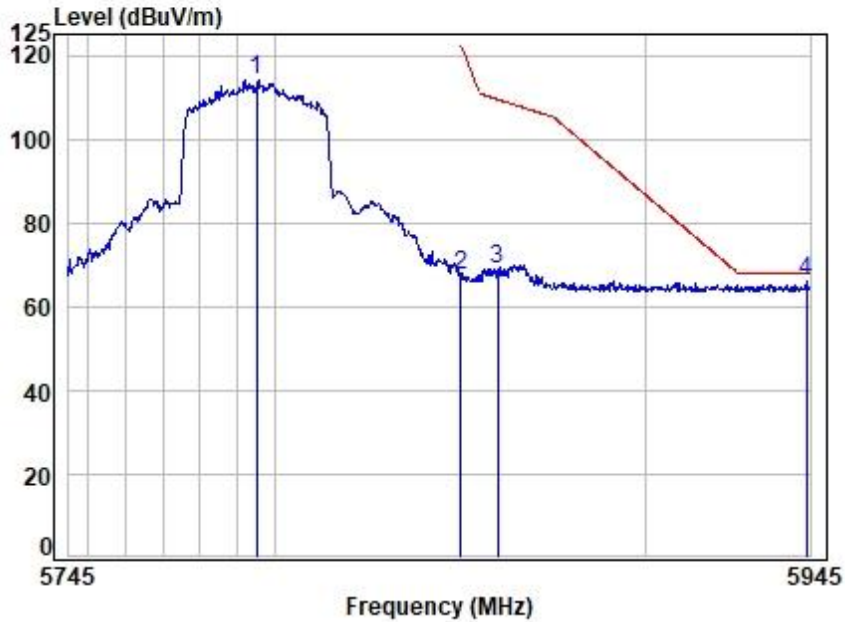
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00504AT/00505AT  
 Mode : 5795 Band edge  
 : 5G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	7.89	32.48	32.18	105.81	114.00	-----	-----	peak
2	5850.000	7.82	32.46	32.16	59.26	67.38	122.20	-54.82	peak
3	5860.000	7.81	32.45	32.15	60.63	68.74	109.40	-40.66	peak
4	5943.983	7.71	32.42	32.12	58.21	66.22	68.20	-1.98	peak



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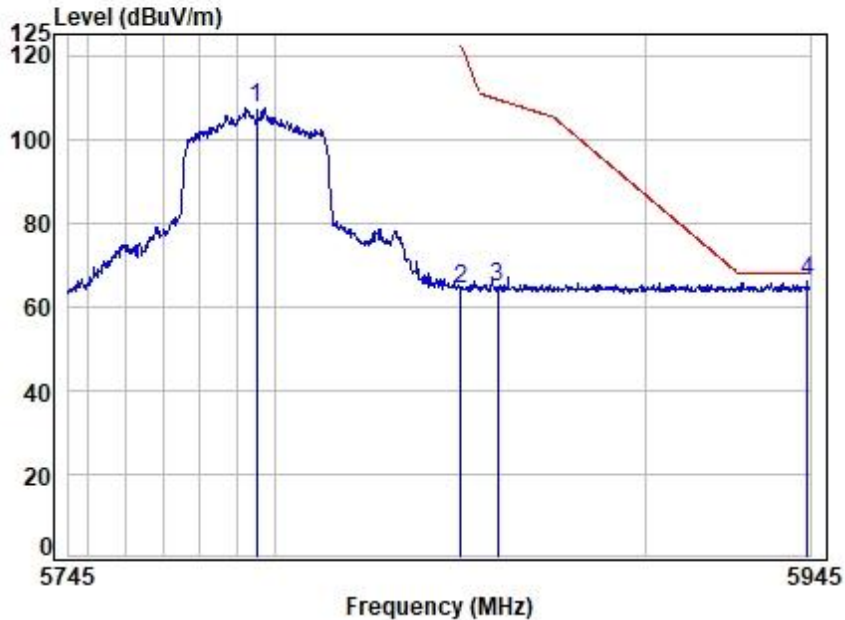
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00504AT/00505AT  
 Mode : 5795 Band edge  
 : 5G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	7.89	32.48	32.18	99.09	107.28	-----	-----	peak
2	5850.000	7.82	32.46	32.16	55.96	64.08	122.20	-58.12	peak
3	5860.000	7.81	32.45	32.15	56.35	64.46	109.40	-44.94	peak
4	5944.390	7.71	32.42	32.12	58.07	66.08	68.20	-2.12	peak



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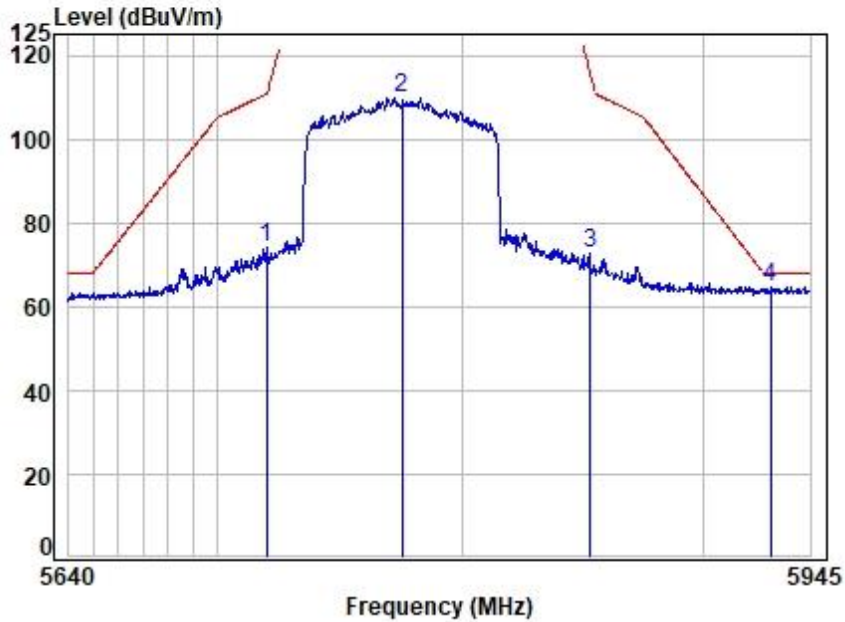
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00504AT/00505AT  
 Mode : 5775 Band edge  
 : 5G WIFI 11AX80

		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5719.870	7.99	32.51	32.21	65.93	74.22	110.76	-36.54	peak
2	5775.000	7.92	32.49	32.19	101.54	109.76	-----	-----	peak
3	5852.732	7.82	32.46	32.16	64.49	72.61	115.97	-43.36	peak
4	5928.429	7.73	32.43	32.13	56.58	64.61	68.20	-3.59	peak



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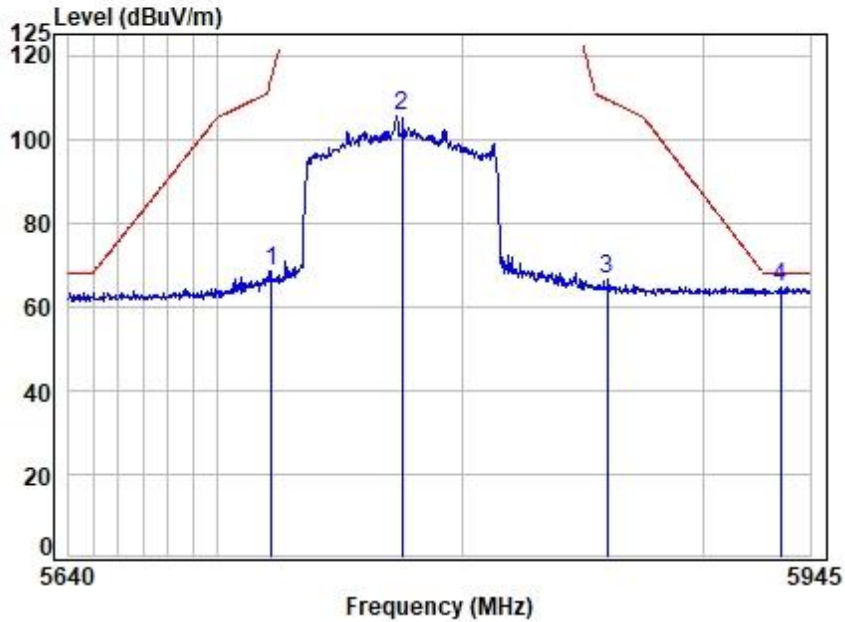
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00504AT/00505AT  
 Mode : 5775 Band edge  
 : 5G WIFI 11AX80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5721.677	7.98	32.51	32.21	60.23	68.51	114.62	-46.11 peak
2	5775.000	7.92	32.49	32.19	97.06	105.28	-----	----- peak
3	5860.135	7.81	32.45	32.15	58.62	66.73	109.36	-42.63 peak
4	5932.489	7.72	32.43	32.13	56.55	64.57	68.20	-3.63 peak



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## 7.12 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

### 7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 43.0 % RH Atmospheric Pressure: 1020 mbar

### 7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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), data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80);data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW160), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	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), data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	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) , data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT160), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW160) final test modes are considering the modulation and worse data rates. Only the data of worst case is



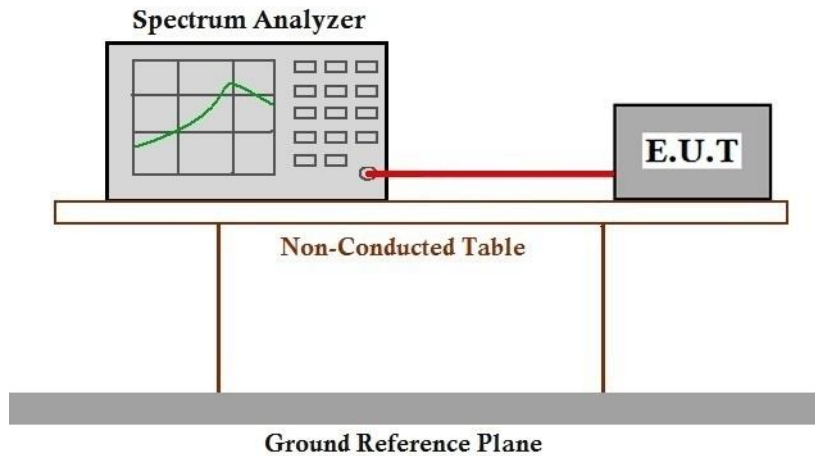
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		recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

**7.12.3 Test Setup Diagram**



**7.12.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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### 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2212000505AT

### 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2212000505AT.



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	MIMO	5180	/	/	1.397	1.453	96.15	0.17	0.07
		5200	/	/	1.397	1.453	96.15	0.17	0.03
		5240	/	/	1.397	1.453	96.15	0.17	0.07
		5260	/	/	1.397	1.453	96.15	0.17	0.04
		5300	/	/	1.397	1.453	96.15	0.17	0.07
		5320	/	/	1.397	1.452	96.21	0.17	0.00
		5500	/	/	1.397	1.452	96.21	0.17	0.00
		5580	/	/	1.396	1.453	96.08	0.17	0.07
		5700	/	/	1.397	1.453	96.15	0.17	0.03
		5745	/	/	1.396	1.605	86.98	0.61	0.03
		5785	/	/	1.396	1.605	86.98	0.61	0.03
5825	/	/	1.396	1.605	86.98	0.61	0.03		
802.11n (HT20)	MIMO	5180	/	/	1.309	1.517	86.29	0.64	0.04
		5200	/	/	1.309	1.365	95.90	0.18	0.03
		5240	/	/	1.308	1.365	95.82	0.19	0.07
		5260	/	/	1.309	1.365	95.90	0.18	0.00
		5300	/	/	1.309	1.364	95.97	0.18	0.03
		5320	/	/	1.308	1.365	95.82	0.19	0.07
		5500	/	/	1.308	1.365	95.82	0.19	0.07
		5580	/	/	1.308	1.365	95.82	0.19	0.10
		5700	/	/	1.309	1.364	95.97	0.18	0.00
		5745	/	/	1.308	1.365	95.82	0.19	0.03
		5785	/	/	1.308	1.365	95.82	0.19	0.03
5825	/	/	1.309	1.365	95.90	0.18	0.03		
802.11n (HT40)	MIMO	5190	/	/	0.648	0.704	92.05	0.36	0.07
		5230	/	/	0.649	0.705	92.06	0.36	0.10
		5270	/	/	0.650	0.706	92.07	0.36	0.06
		5310	/	/	0.649	0.705	92.06	0.36	0.03



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# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200050503

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		5510	/	/	0.649	0.705	92.06	0.36	0.04
		5550	/	/	0.649	0.705	92.06	0.36	0.03
		5670	/	/	0.648	0.705	91.91	0.37	0.10
		5755	/	/	0.649	0.704	92.19	0.35	0.03
		5795	/	/	0.649	0.705	92.06	0.36	0.03
802.11ac (VHT20)	MIMO	5180	/	/	1.317	1.373	95.92	0.18	0.03
		5200	/	/	1.317	1.373	95.92	0.18	0.03
		5240	/	/	1.318	1.374	95.92	0.18	0.07
		5260	/	/	1.316	1.373	95.85	0.18	0.03
		5300	/	/	1.317	1.373	95.92	0.18	0.03
		5320	/	/	1.317	1.373	95.92	0.18	0.03
		5500	/	/	1.317	1.373	95.92	0.18	0.03
		5580	/	/	1.317	1.373	95.92	0.18	0.07
		5700	/	/	1.317	1.373	95.92	0.18	0.07
		5745	/	/	1.316	1.373	95.85	0.18	0.00
		5785	/	/	1.316	1.373	95.85	0.18	0.03
		5825	/	/	1.316	1.373	95.85	0.18	0.03
802.11ac (VHT40)	MIMO	5190	/	/	0.657	0.713	92.15	0.36	0.03
		5230	/	/	0.657	0.713	92.15	0.36	0.06
		5270	/	/	0.657	0.713	92.15	0.36	0.03
		5310	/	/	0.657	0.713	92.15	0.36	0.06
		5510	/	/	0.657	0.713	92.15	0.36	0.03
		5550	/	/	0.657	0.713	92.15	0.36	0.06
		5670	/	/	0.657	0.713	92.15	0.36	0.03
		5755	/	/	0.657	0.713	92.15	0.36	0.06
		5795	/	/	0.658	0.714	92.16	0.35	0.06
802.11ac (VHT80)	MIMO	5210	/	/	0.324	0.380	85.26	0.69	0.04
		5290	/	/	0.325	0.381	85.30	0.69	0.03
		5530	/	/	0.326	0.381	85.56	0.68	0.04
		5610	/	/	0.325	0.380	85.53	0.68	0.04
		5775	/	/	0.325	0.381	85.30	0.69	0.04
802.11ac (VHT160)	MIMO	5570	/	/	0.185	0.241	76.76	1.15	0.10
		5250	/	/	0.188	0.241	78.01	1.08	0.09
802.11ax (HEW20)	MIMO	5180	RU242	Left	1.029	1.084	94.93	0.23	0.03
		5200	RU242	Left	1.028	1.084	94.83	0.23	0.07
		5240	RU242	Left	1.028	1.084	94.83	0.23	0.03
		5260	RU242	Left	1.028	1.084	94.83	0.23	0.03
		5300	RU242	Left	1.028	1.084	94.83	0.23	0.03
		5320	RU242	Left	1.029	1.085	94.84	0.23	0.03



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 Shenzhen Branch

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# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

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		5500	RU242	Left	1.028	1.085	94.75	0.23	0.09
		5580	RU242	Left	1.027	1.084	94.74	0.23	0.06
		5700	RU242	Left	1.028	1.084	94.83	0.23	0.04
		5745	RU242	Left	1.028	1.084	94.83	0.23	0.07
		5785	RU242	Left	1.027	1.084	94.74	0.23	0.03
		5825	RU242	Left	1.028	1.084	94.83	0.23	0.03
802.11ax (HEW40)	MIMO	5190	RU484	Left	0.548	0.604	90.73	0.42	0.06
		5230	RU484	Left	0.548	0.604	90.73	0.42	0.06
		5270	RU484	Left	0.548	0.604	90.73	0.42	0.07
		5310	RU484	Left	0.549	0.604	90.89	0.41	0.00
		5510	RU484	Left	0.547	0.604	90.56	0.43	0.07
		5550	RU484	Left	0.548	0.604	90.73	0.42	0.03
		5670	RU484	Left	0.548	0.604	90.73	0.42	0.09
		5755	RU484	Left	0.548	0.604	90.73	0.42	0.06
802.11ax (HEW80)	MIMO	5795	RU484	Left	0.548	0.605	90.58	0.43	0.03
		5210	RU996	Left	0.298	0.354	84.18	0.75	0.04
		5290	RU996	Left	0.299	0.354	84.46	0.73	0.04
		5530	RU996	Left	0.297	0.353	84.14	0.75	0.08
		5610	RU996	Left	0.297	0.354	83.90	0.76	0.11
802.11ax (HEW160)	MIMO	5775	RU996	Left	0.298	0.353	84.42	0.74	0.04
		5570	2xRU996	Left	0.298	0.353	84.42	0.74	0.04
		5250	2xRU996	Left	0.298	0.354	84.18	0.75	0.04

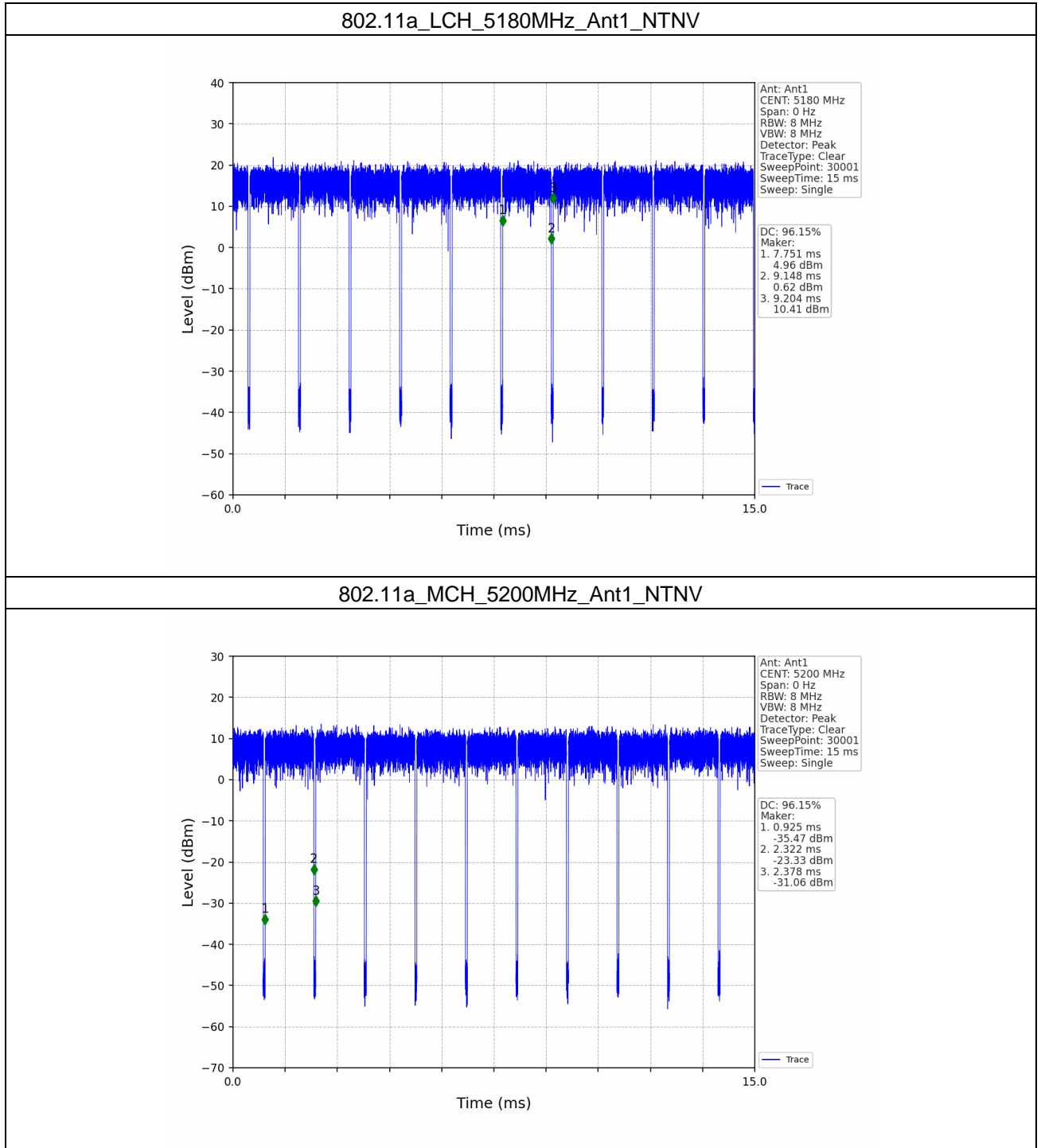
Note: ALL the ANT1, ANT2, ANT3 and ANT4 were conducted the tests. only the worst-case ATN1 is recorded in the test report.



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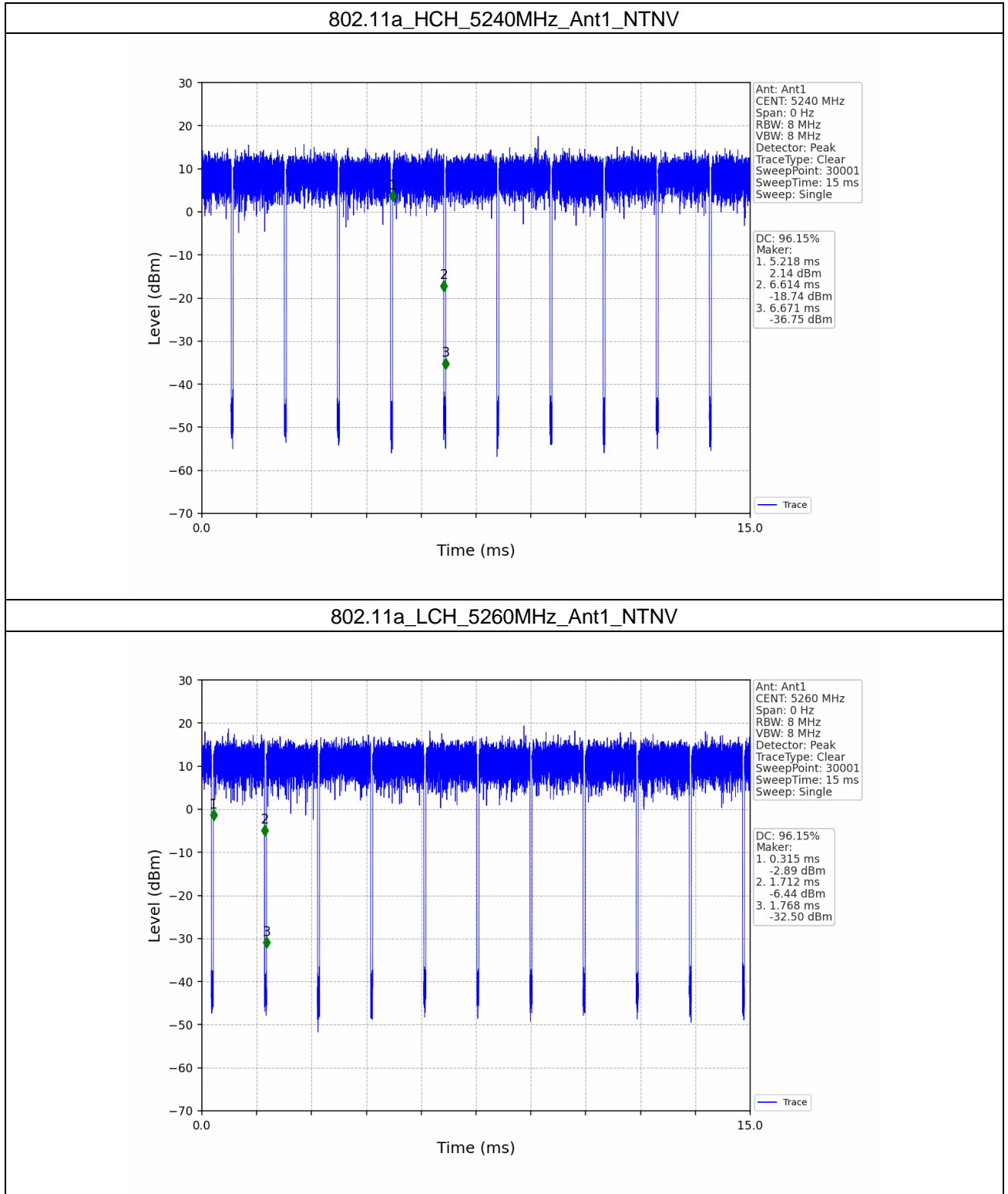
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### 1.1.2 Test Graph



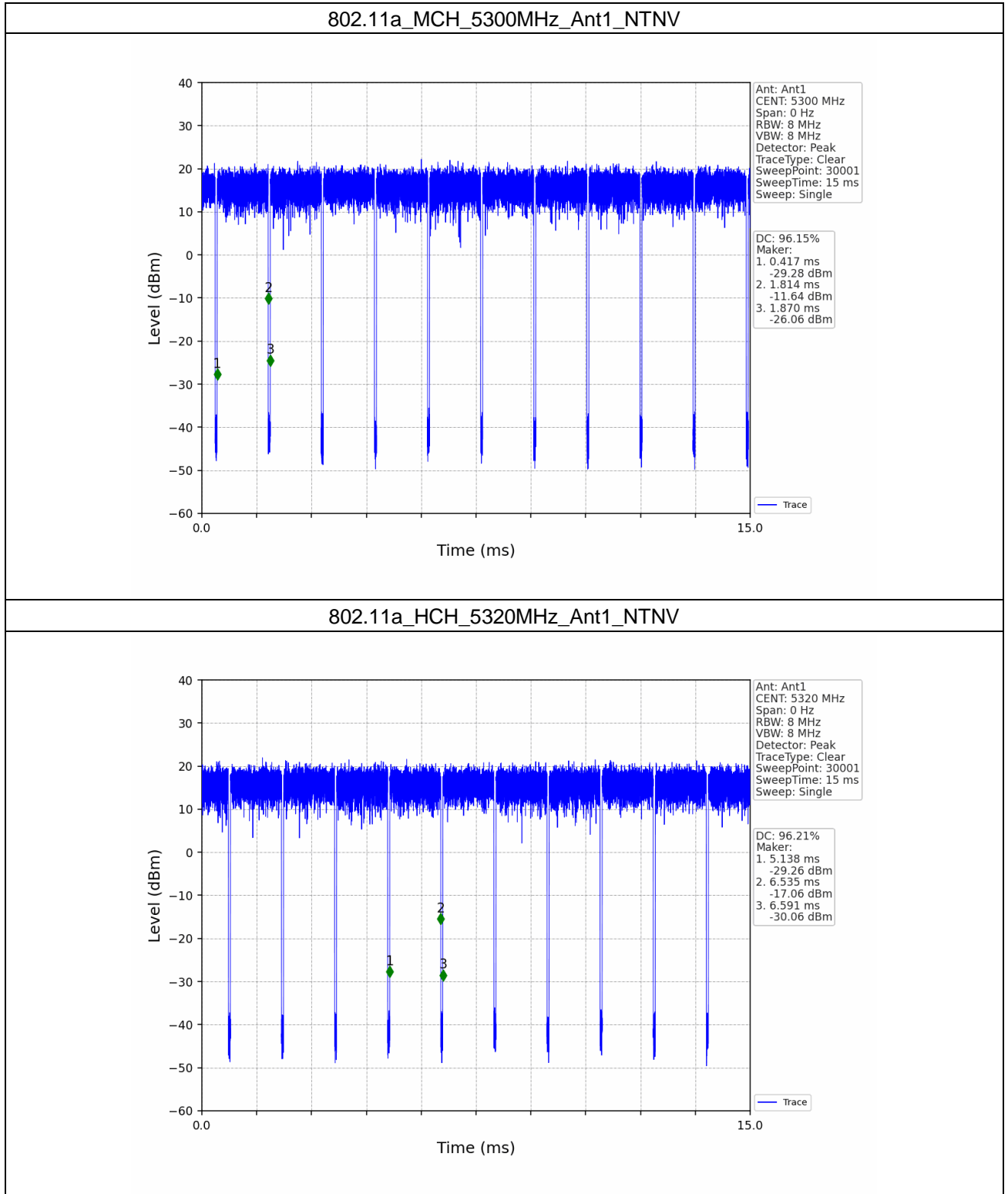
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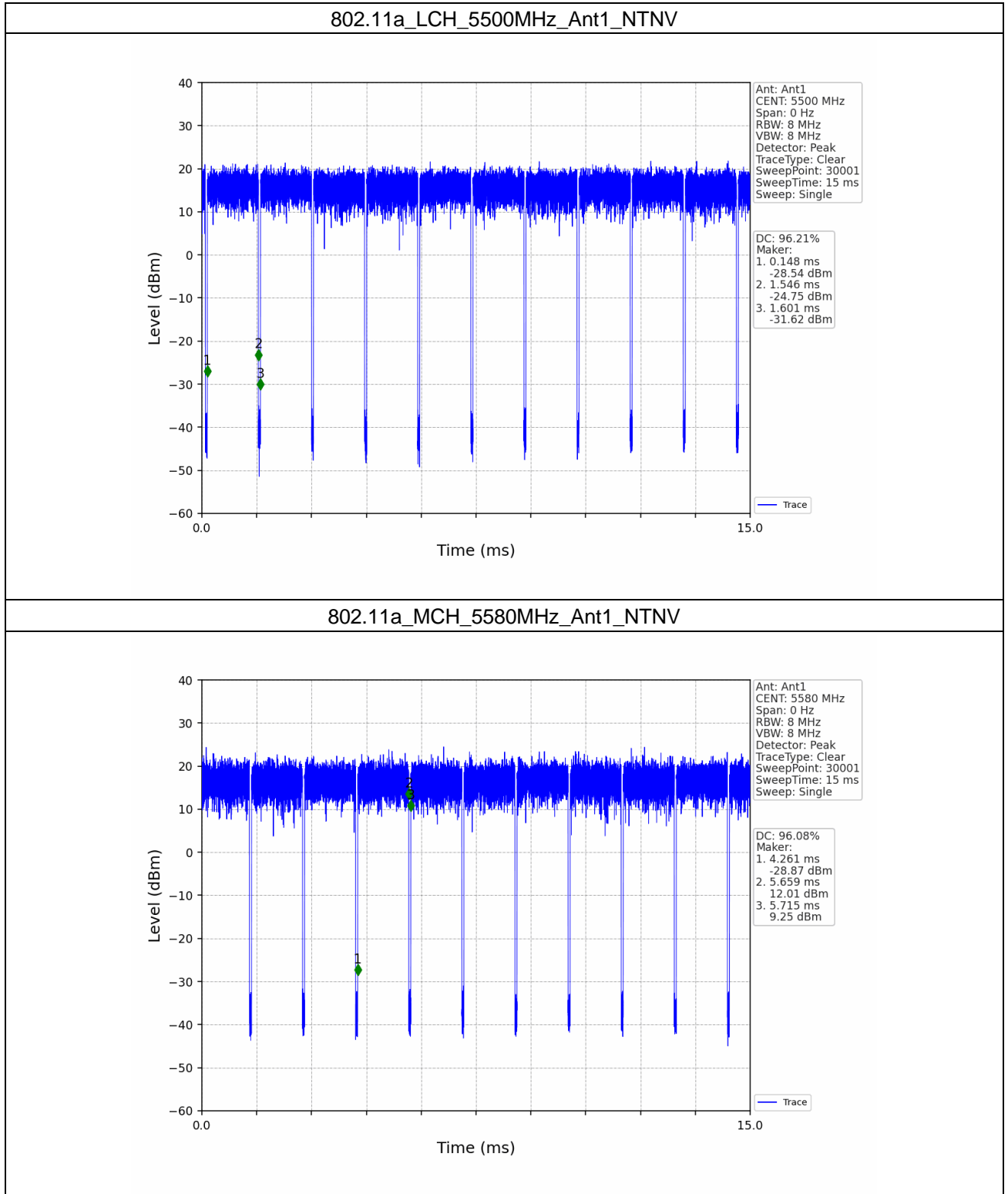
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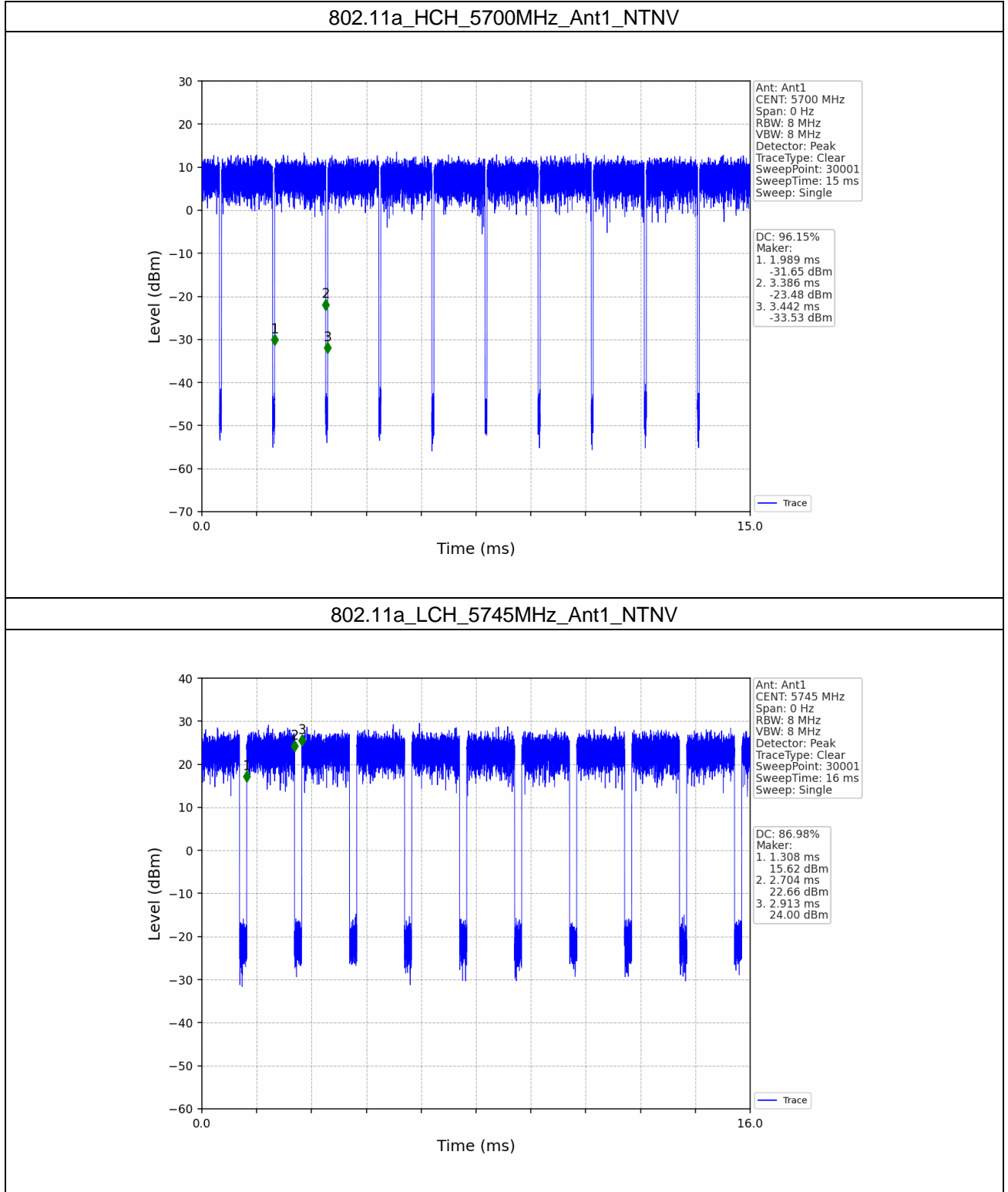
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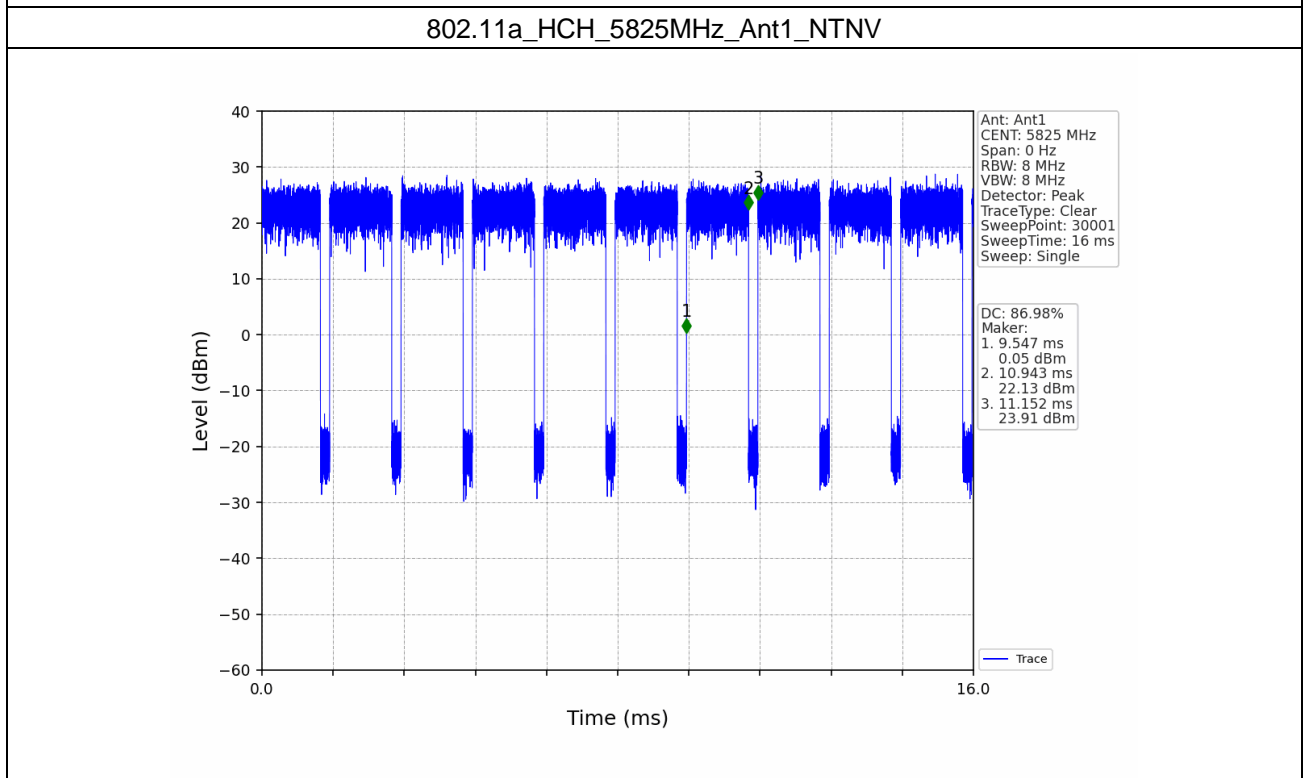
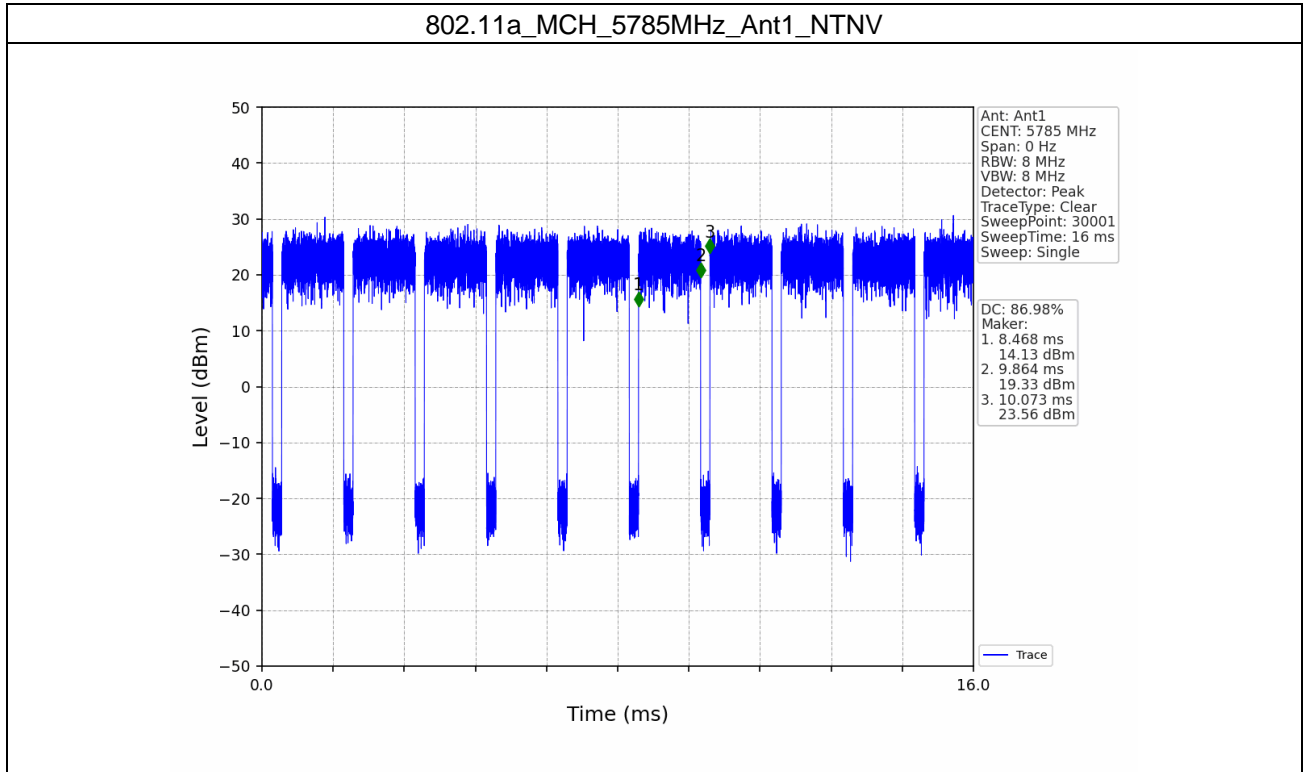
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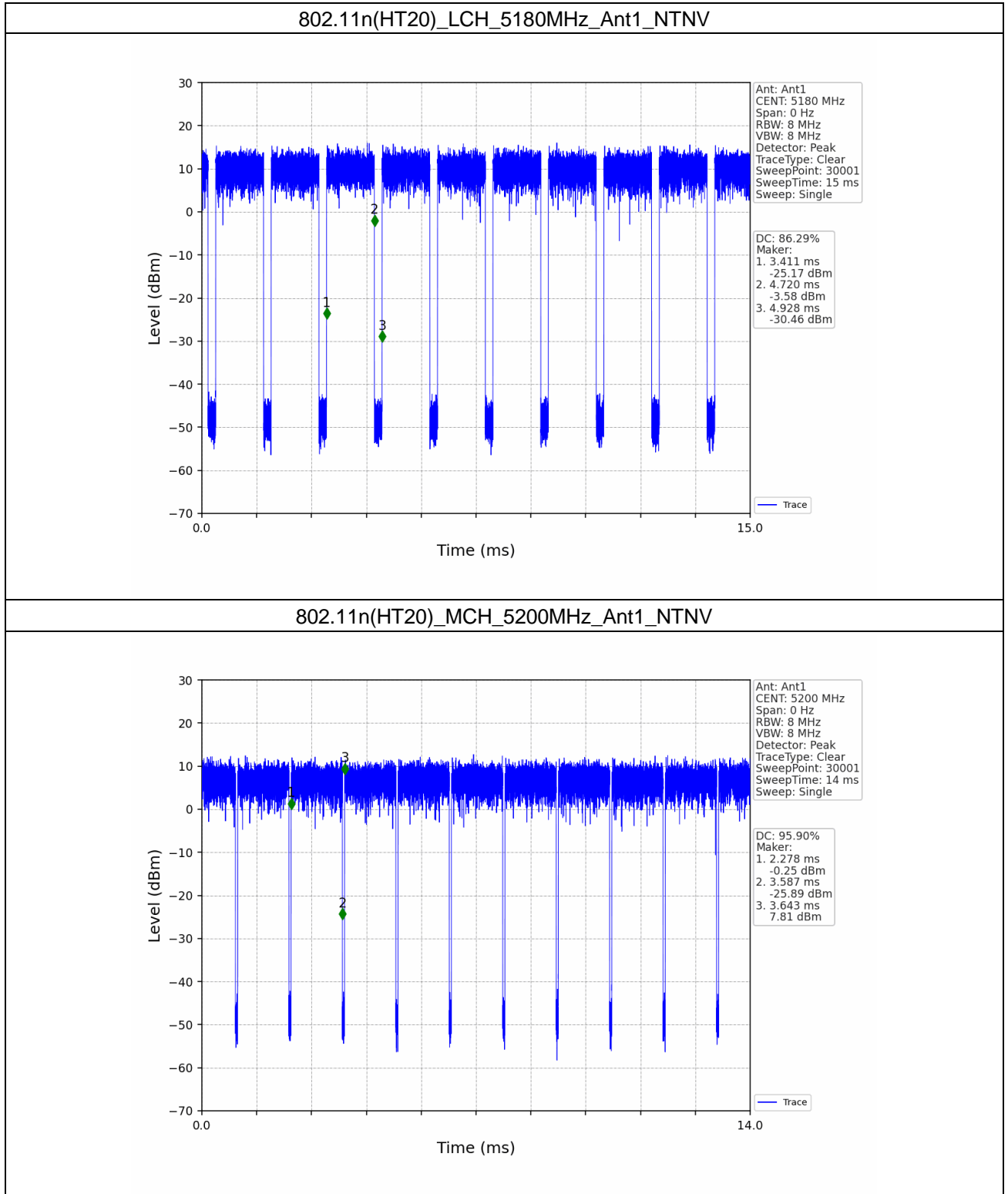
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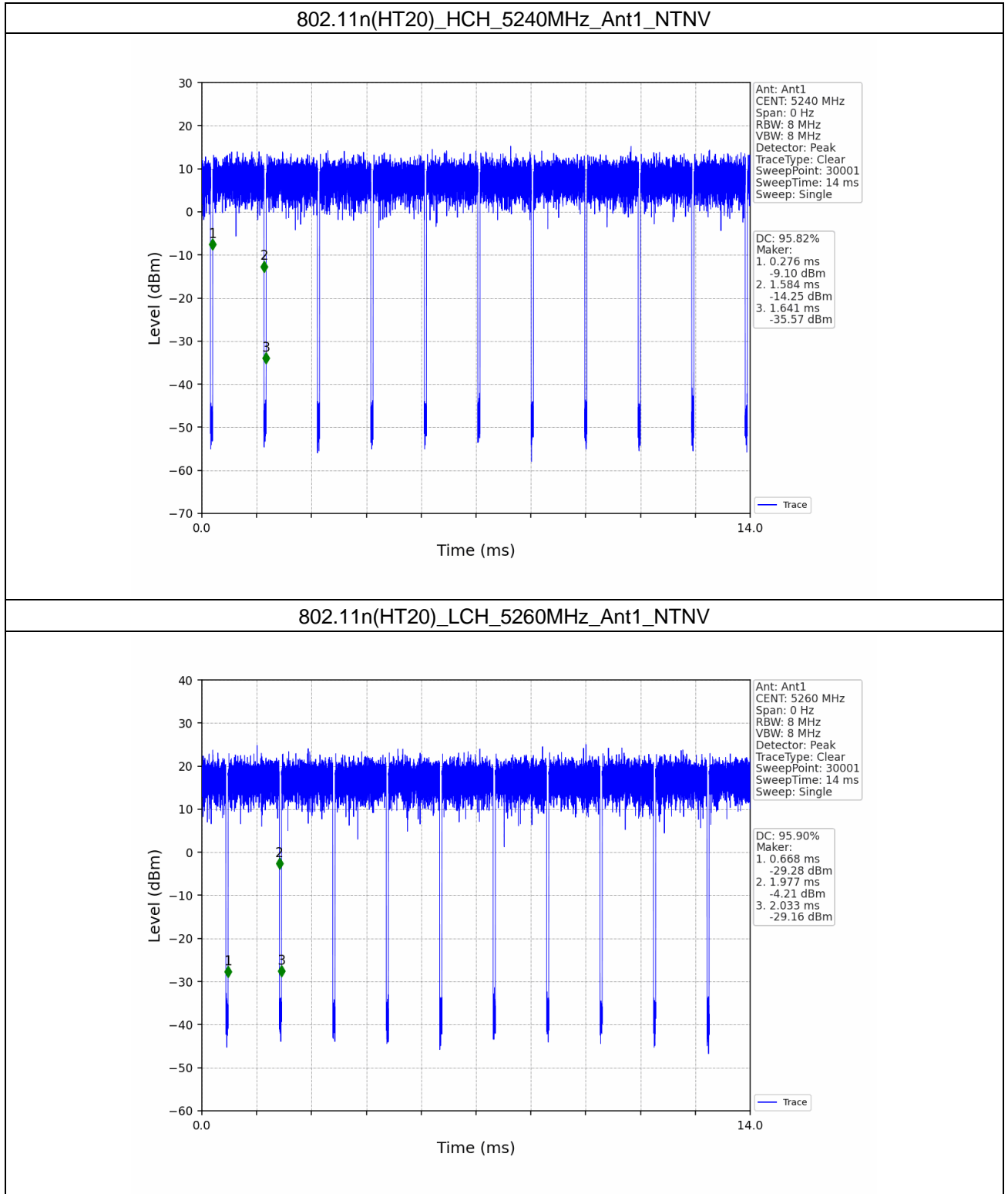
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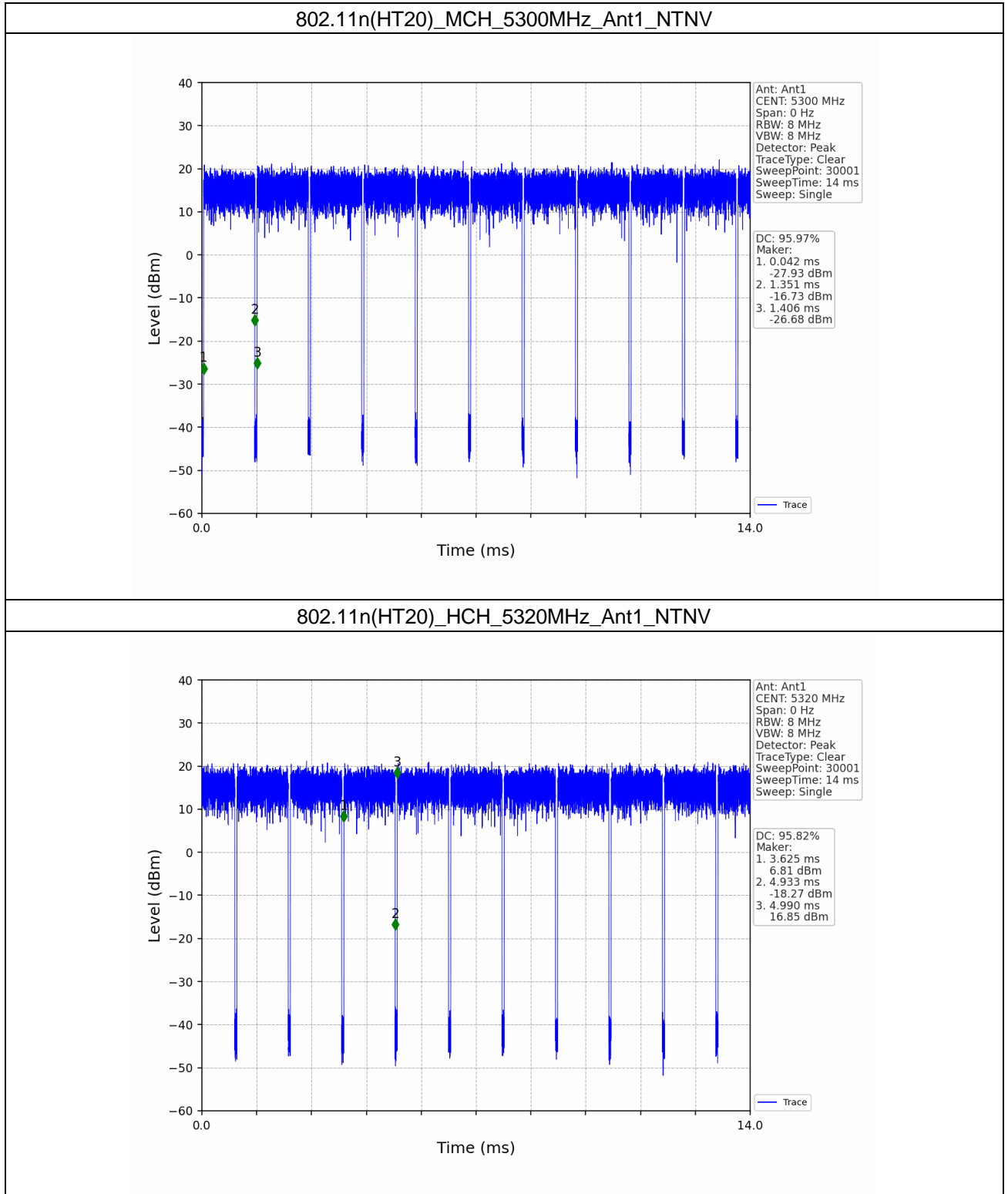
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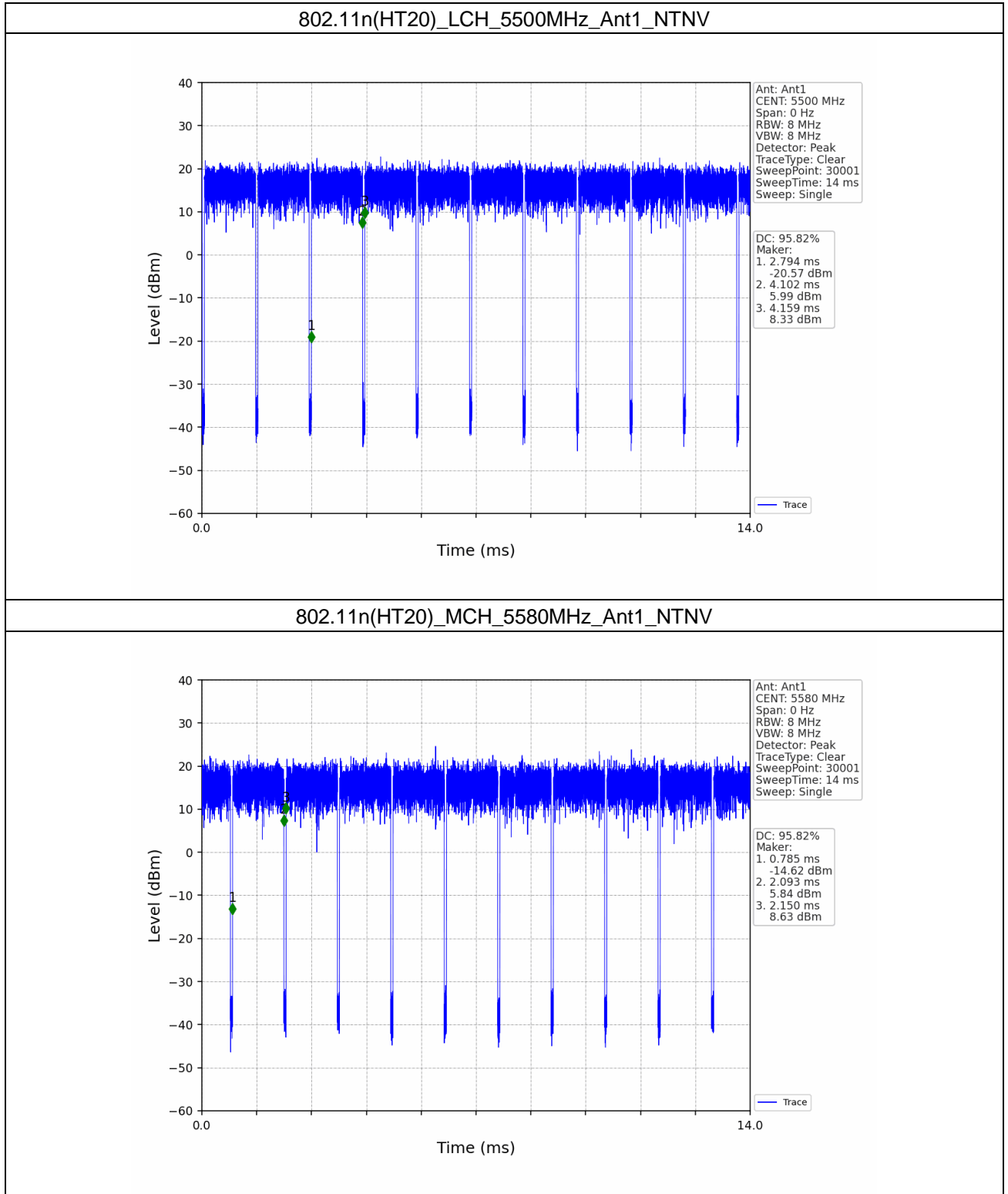
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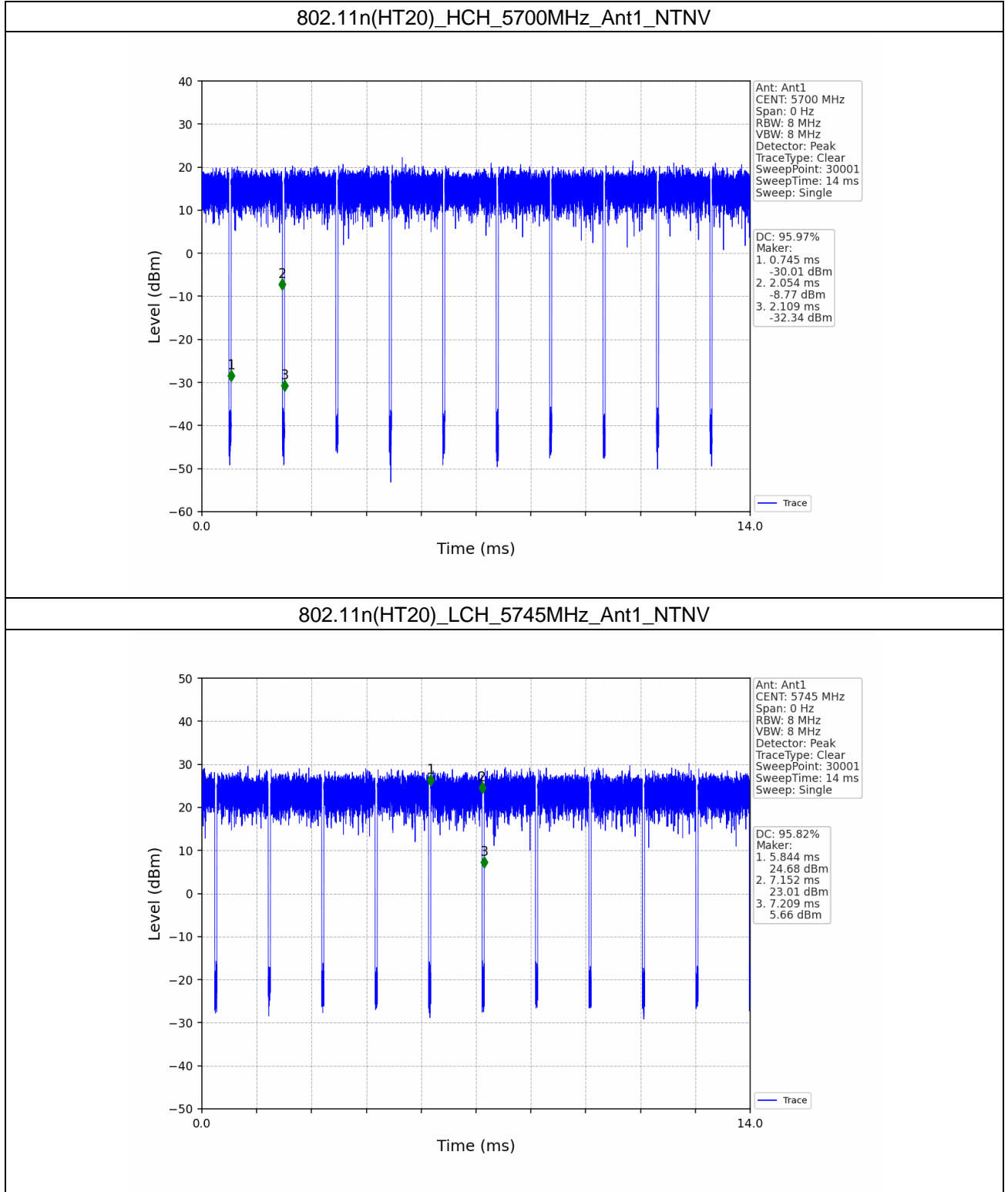
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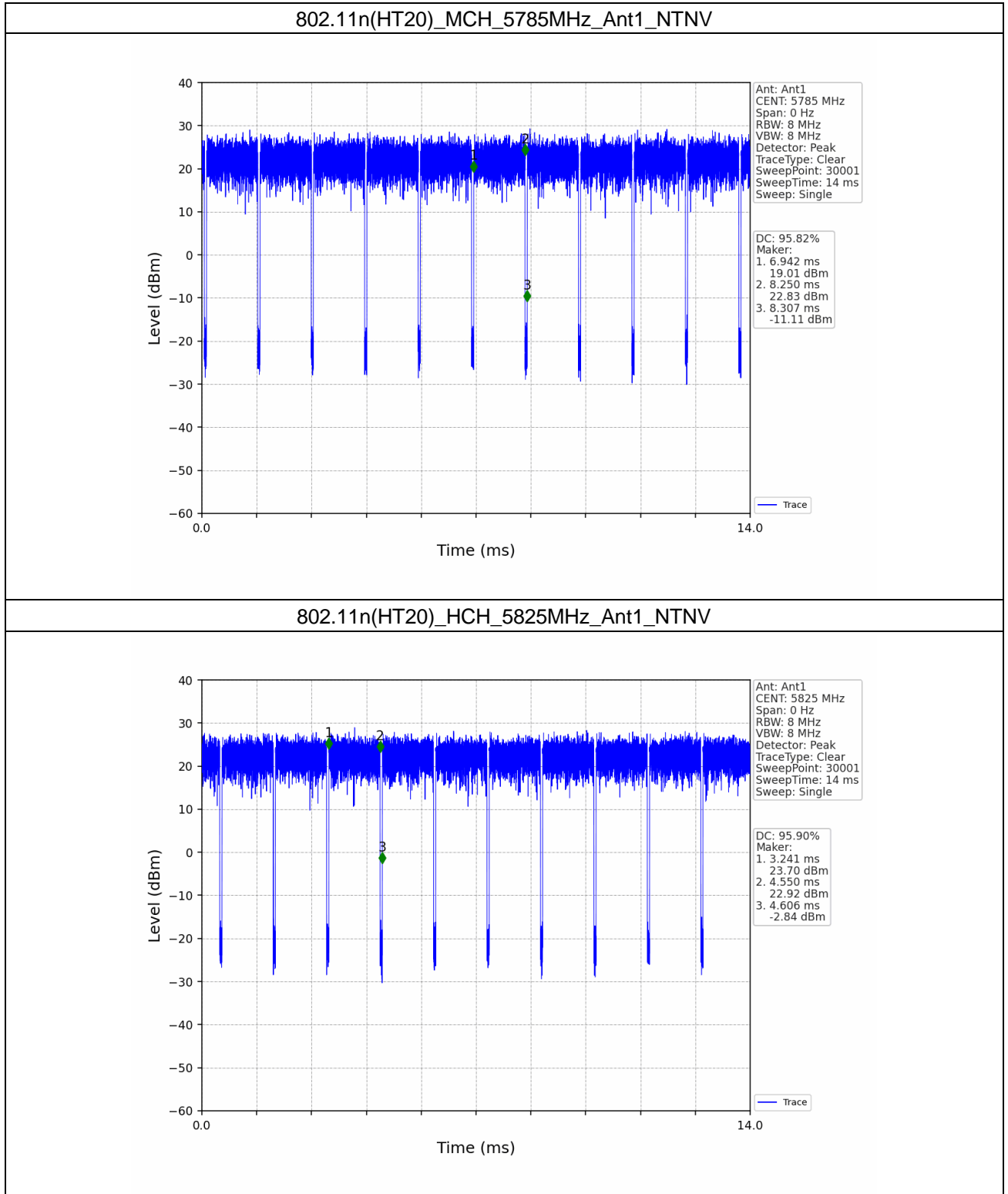
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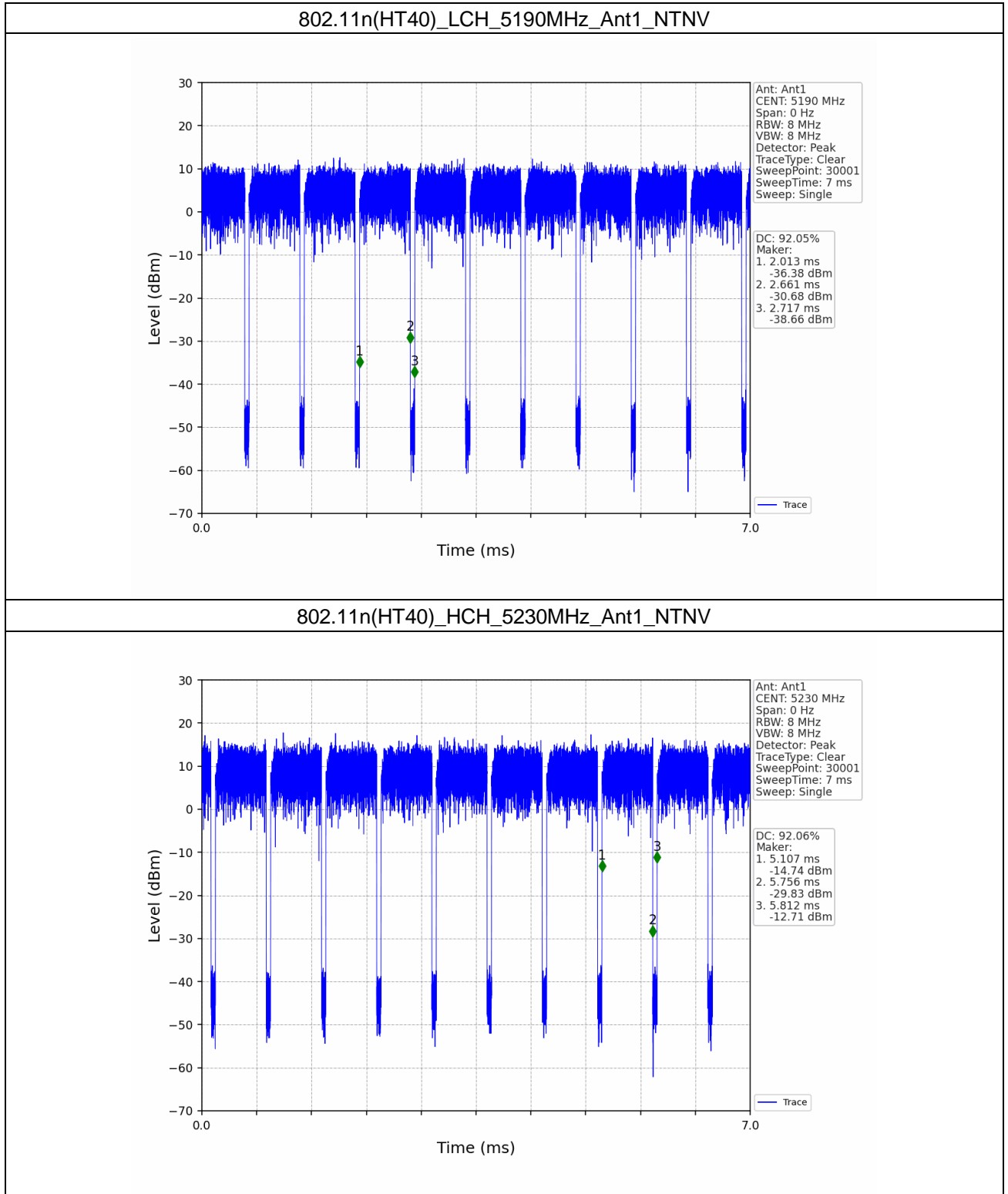
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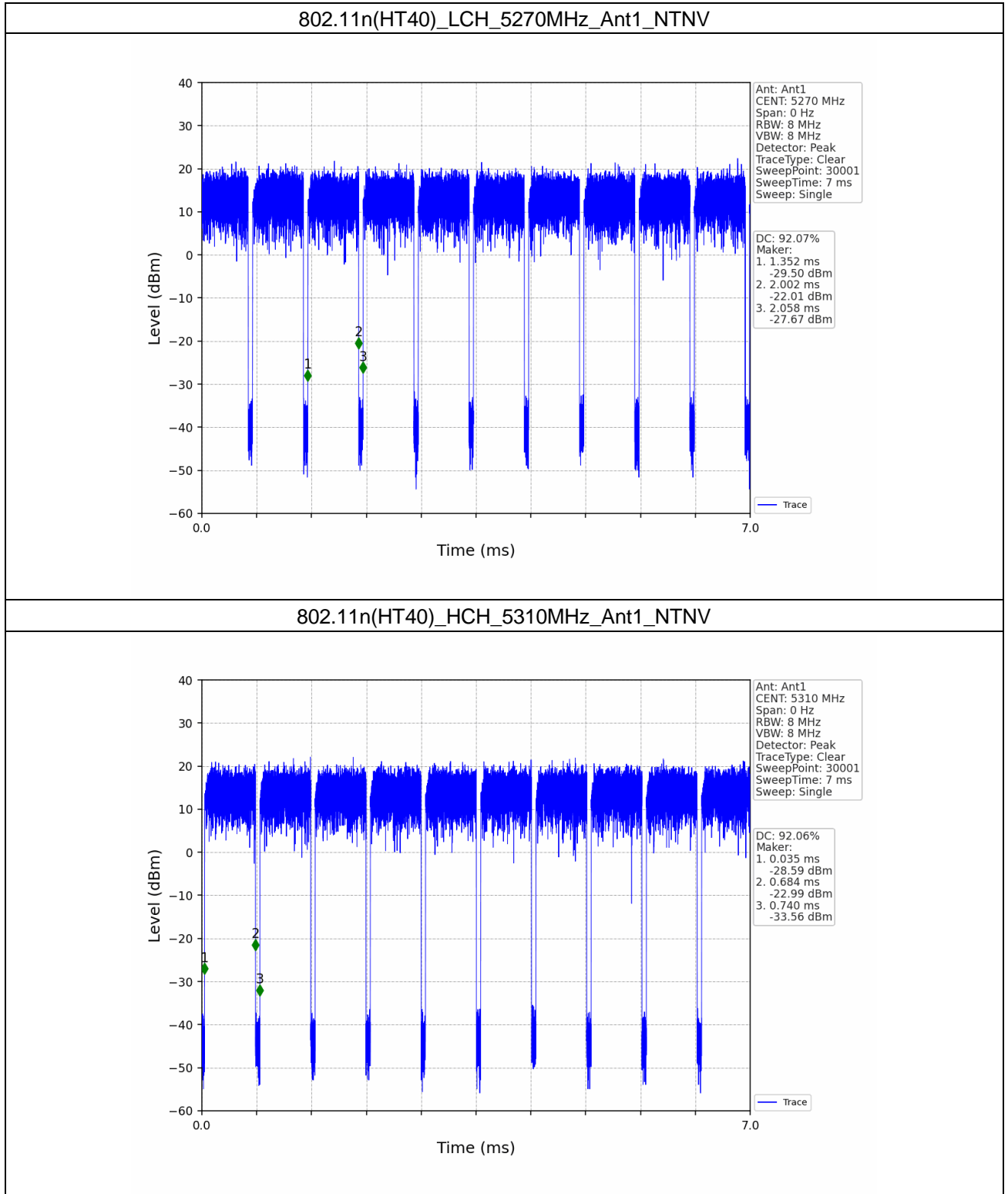
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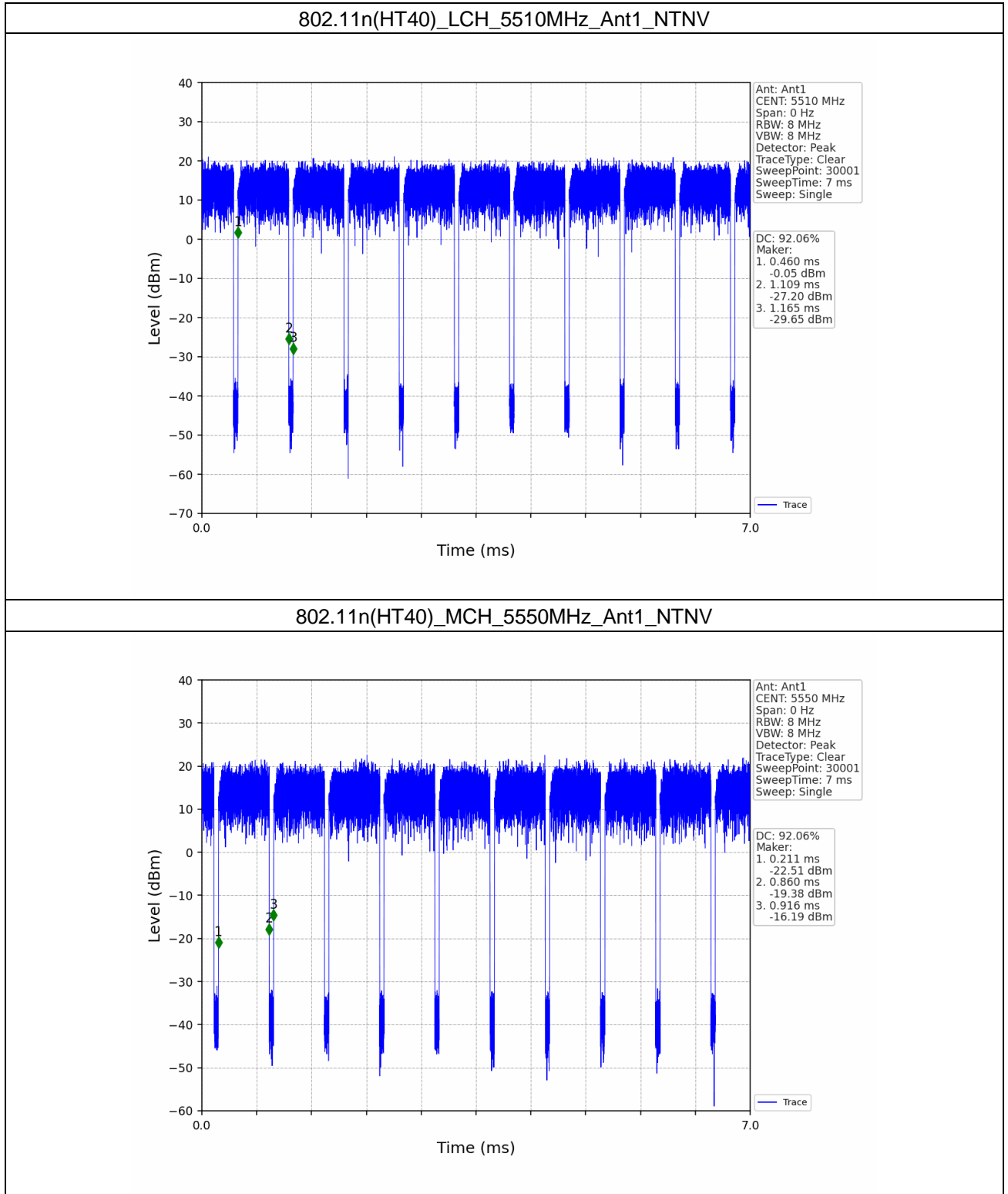
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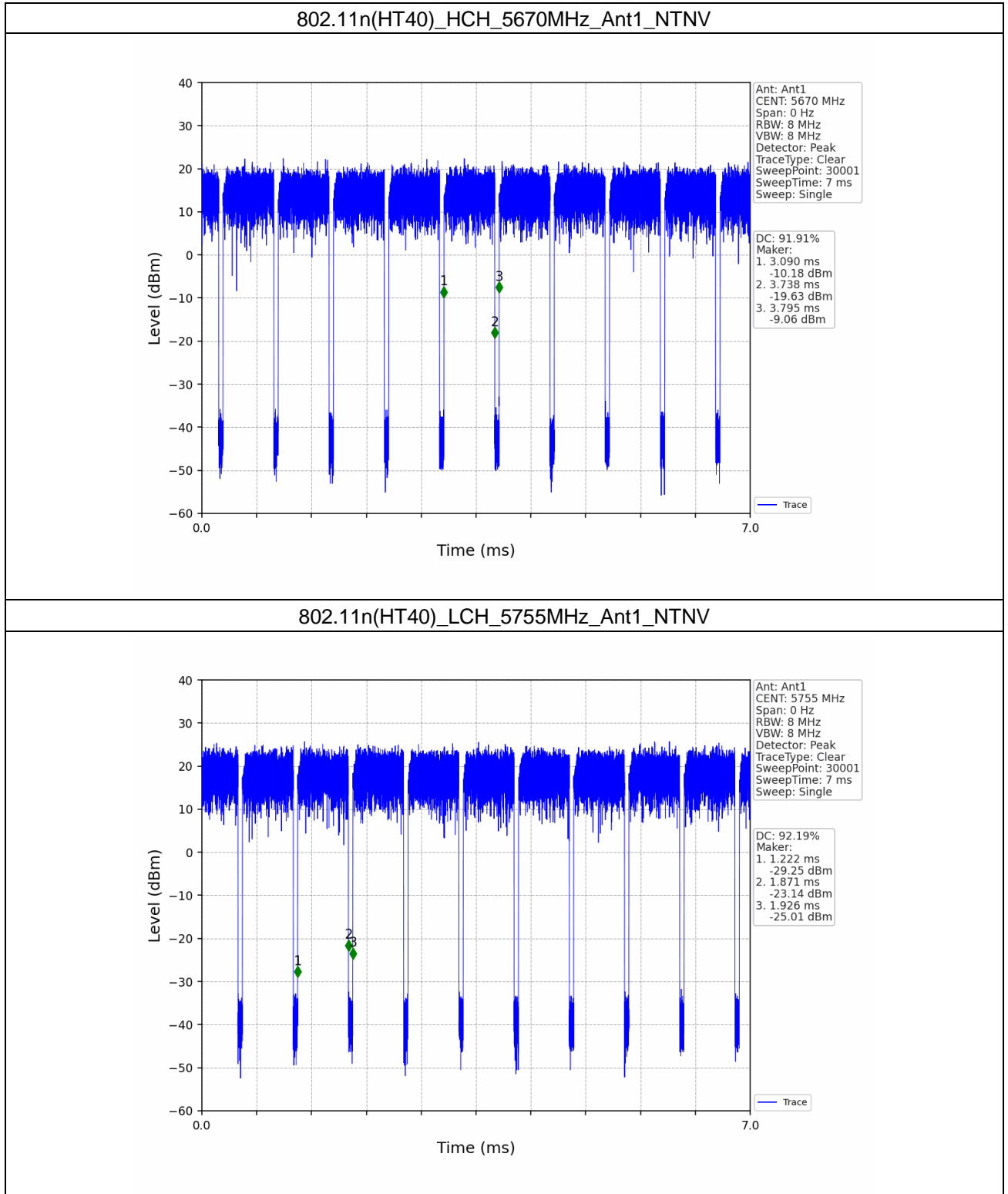
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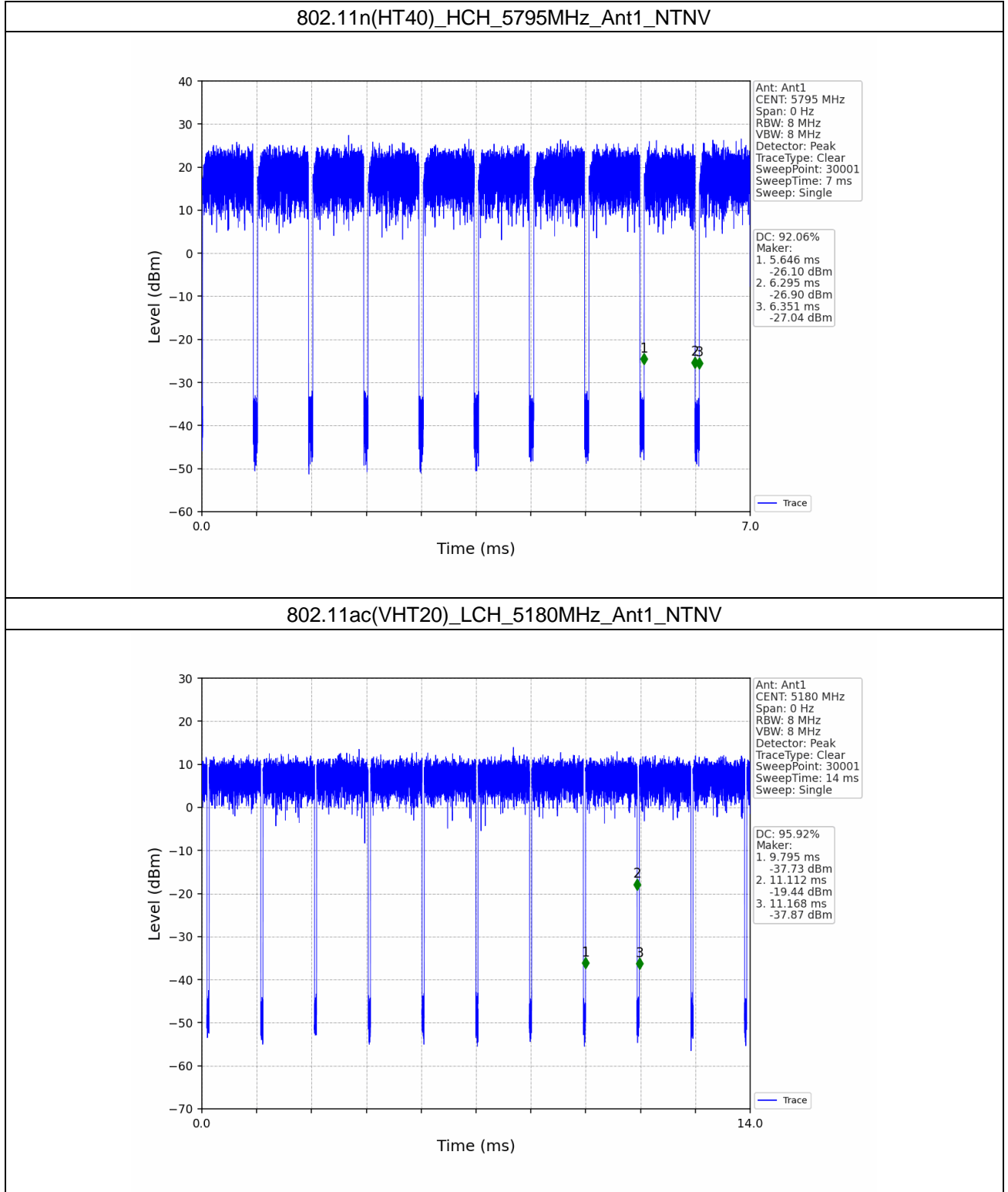
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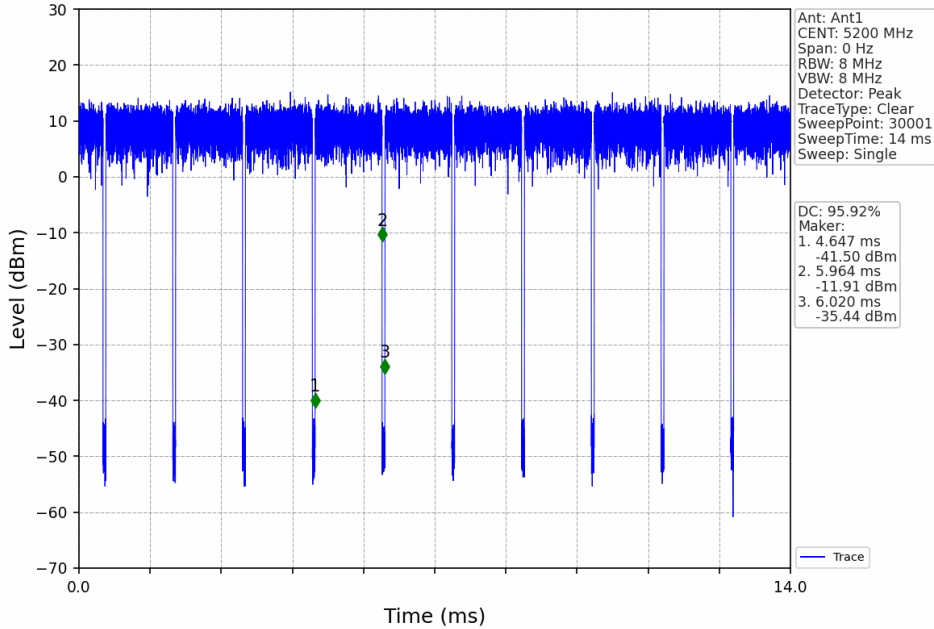
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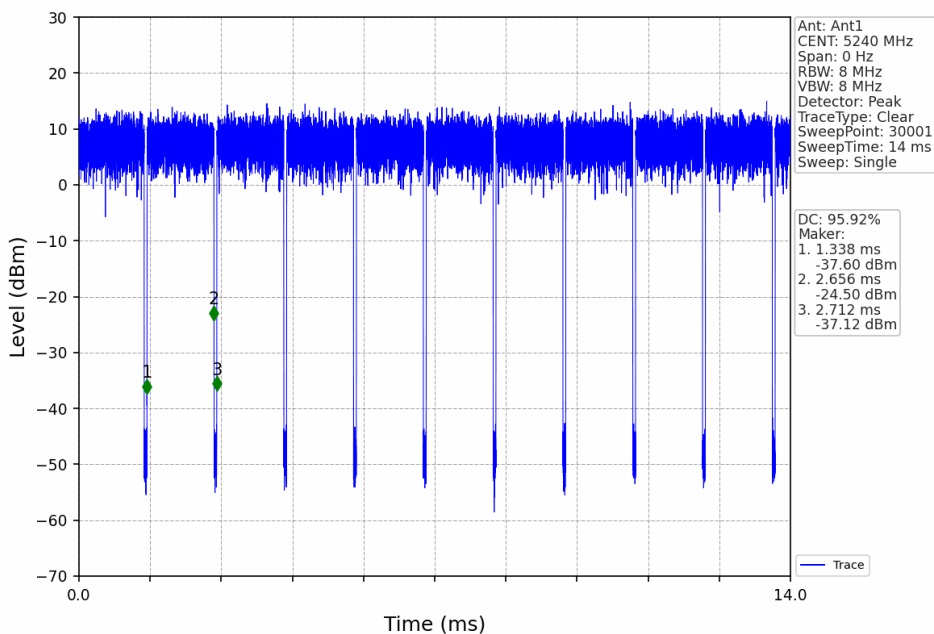
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### 802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV

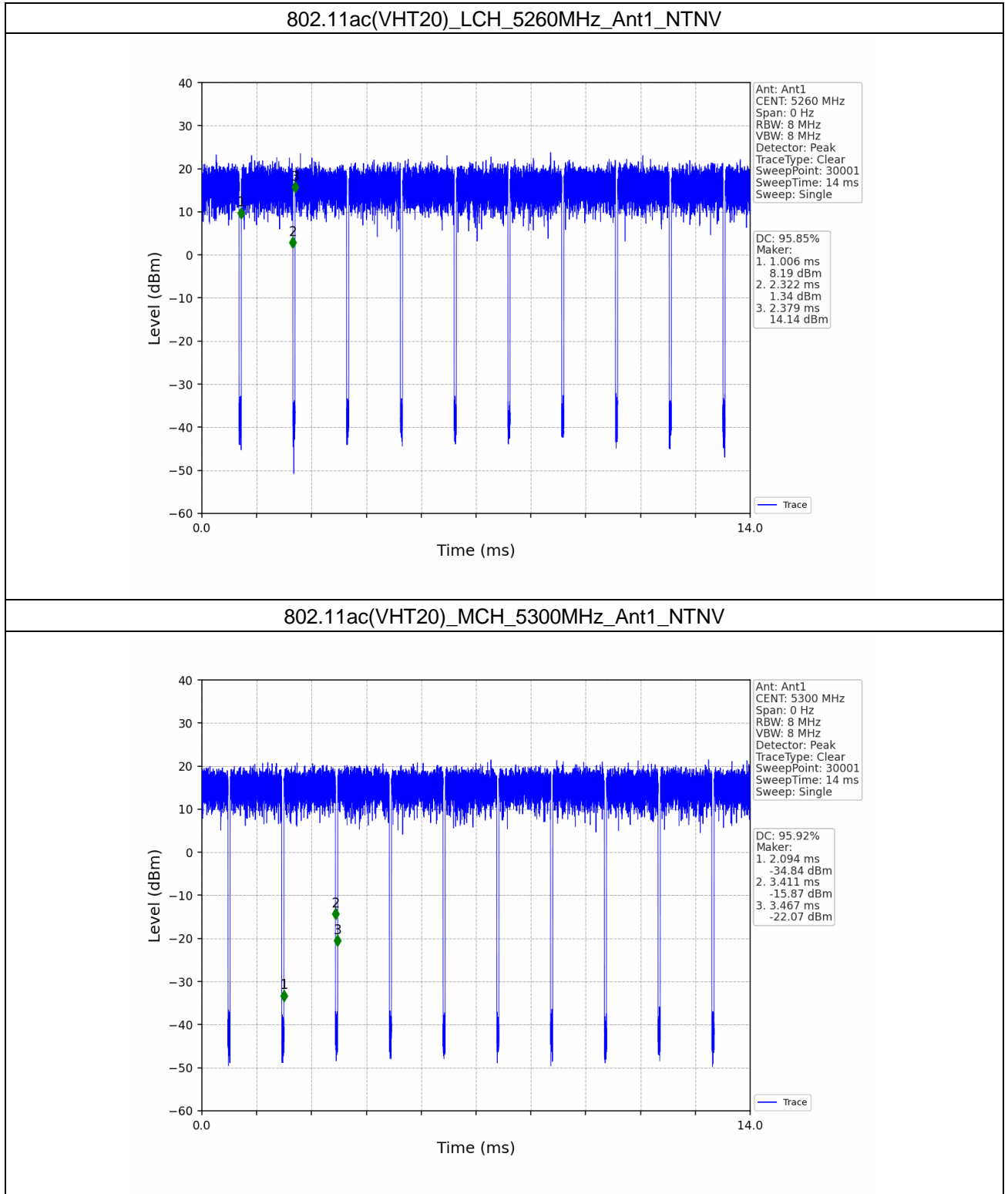


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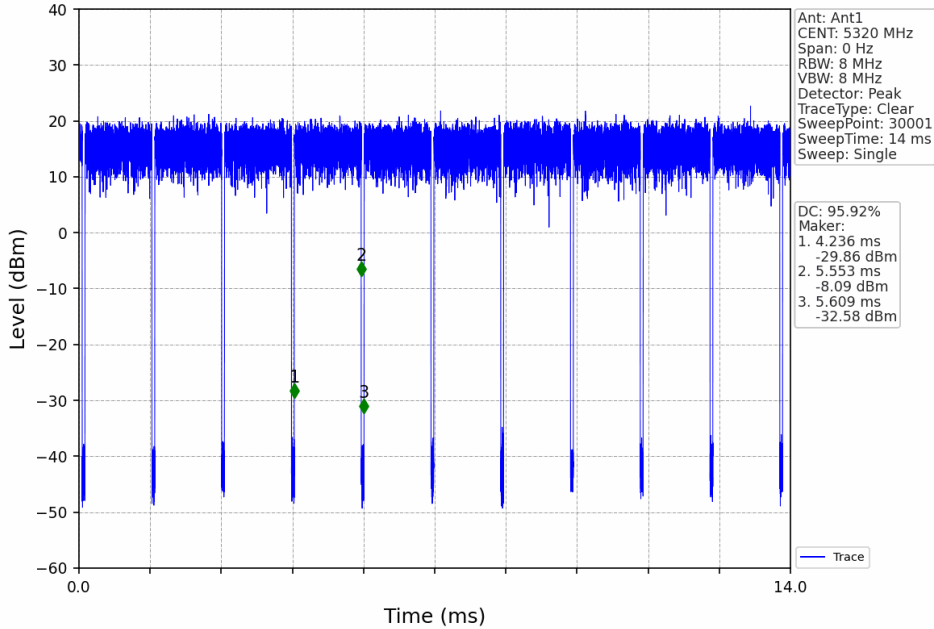
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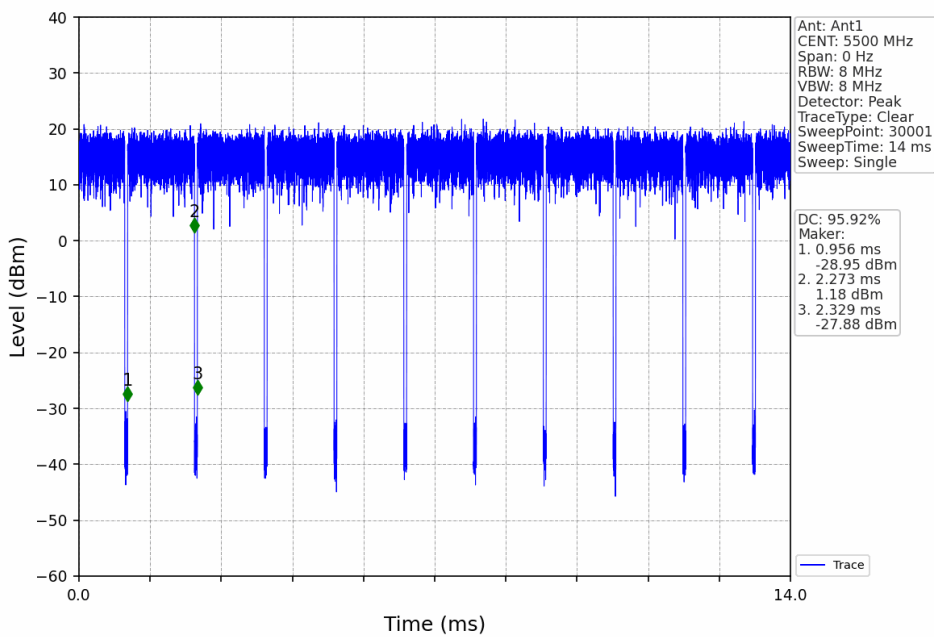
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802.11ac(VHT20)\_HCH\_5320MHz\_Ant1\_NTNV



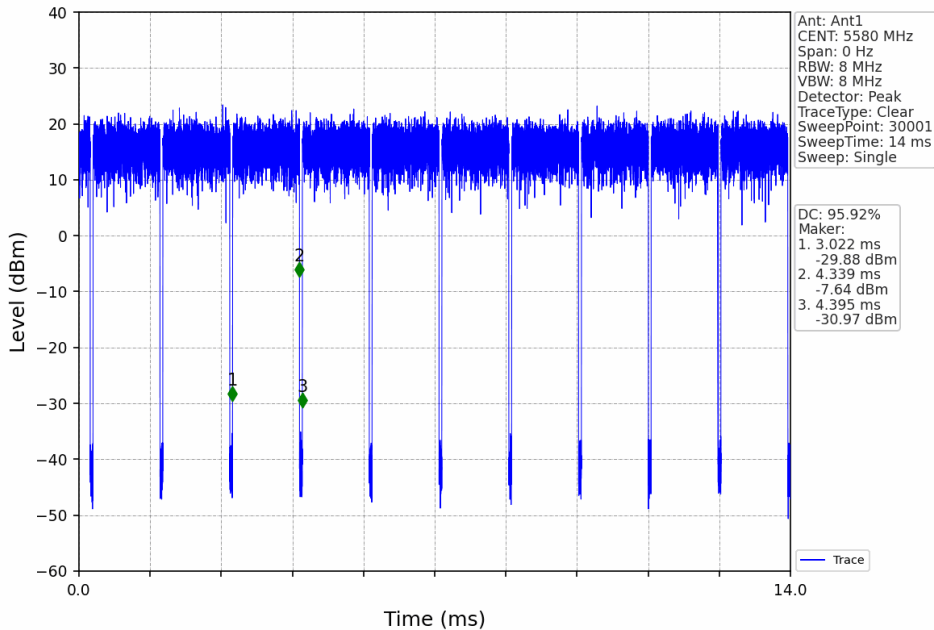
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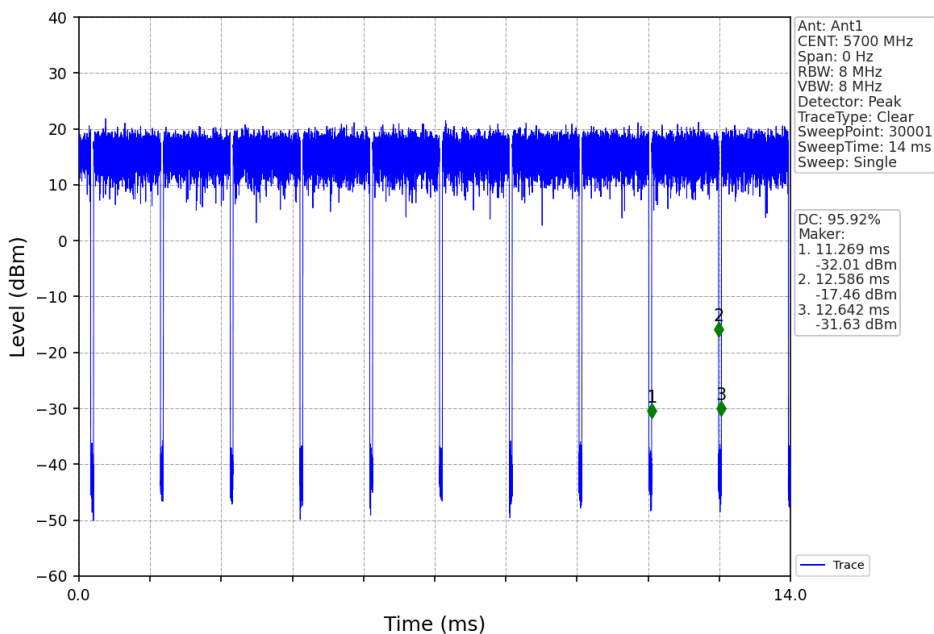
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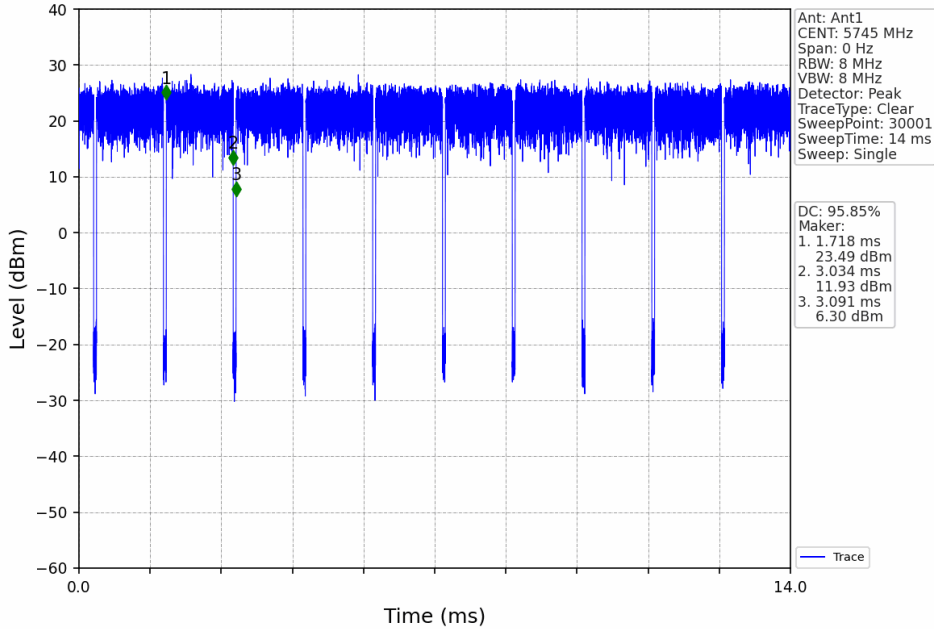
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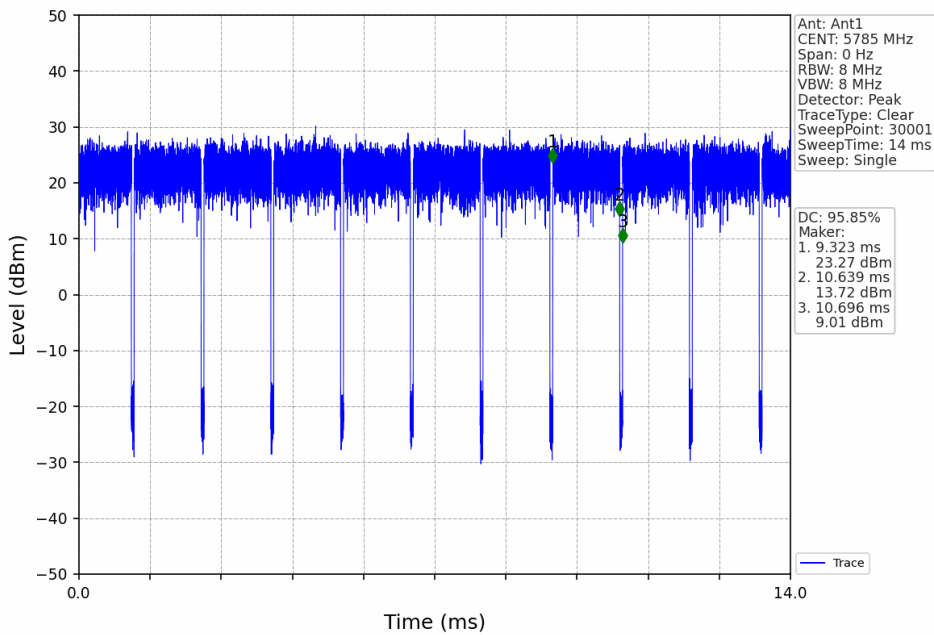
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### 802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



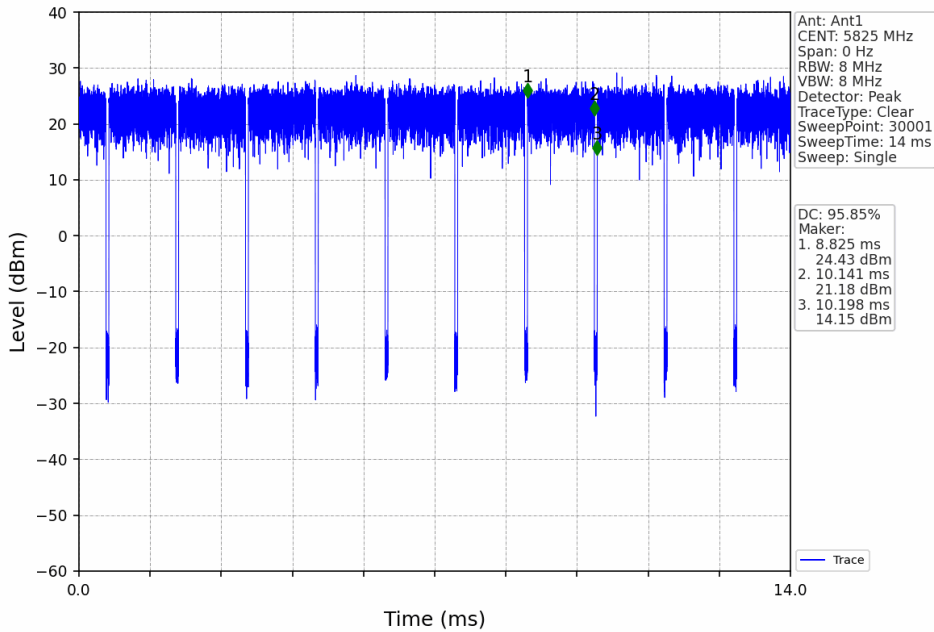
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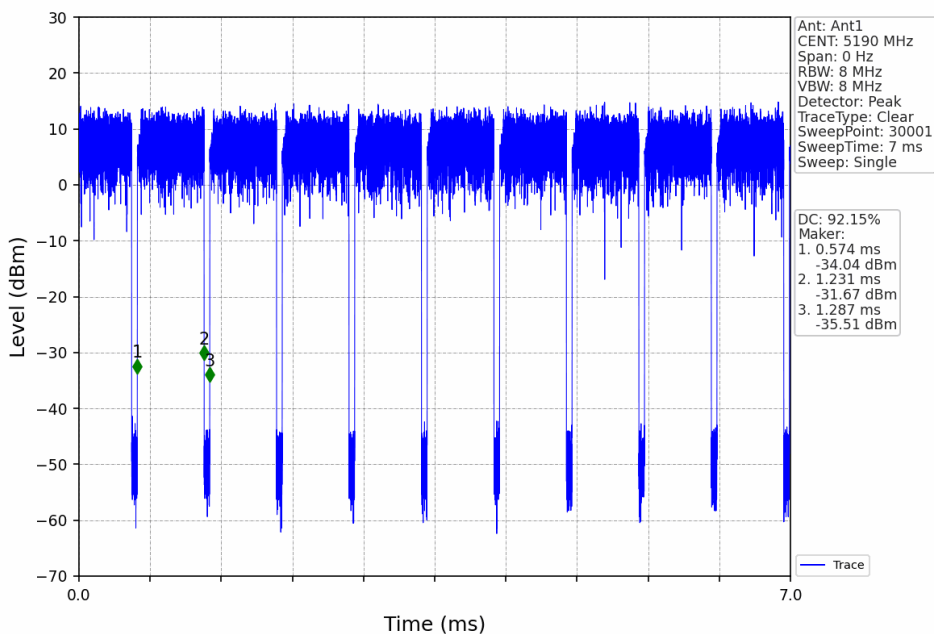
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



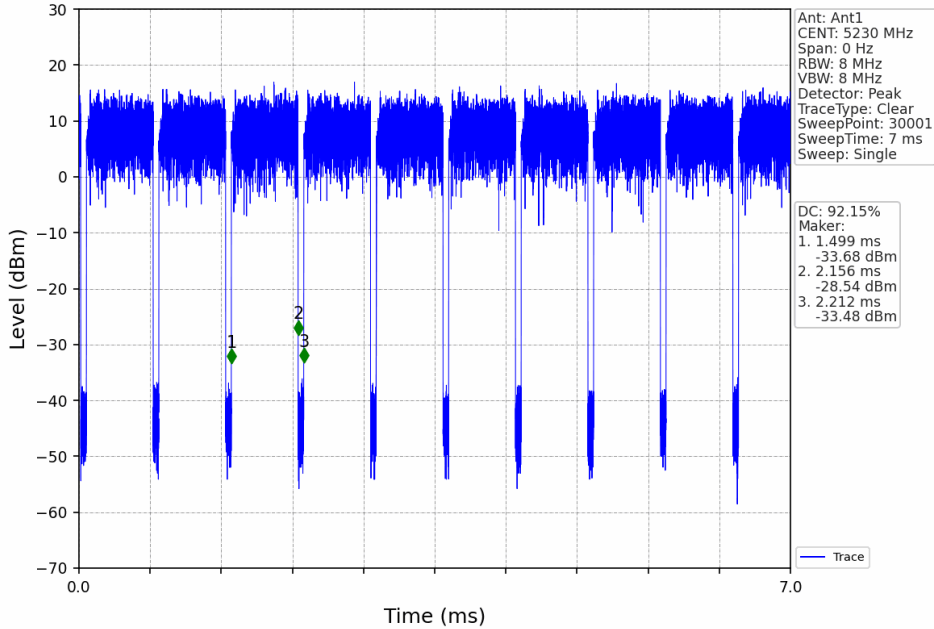
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



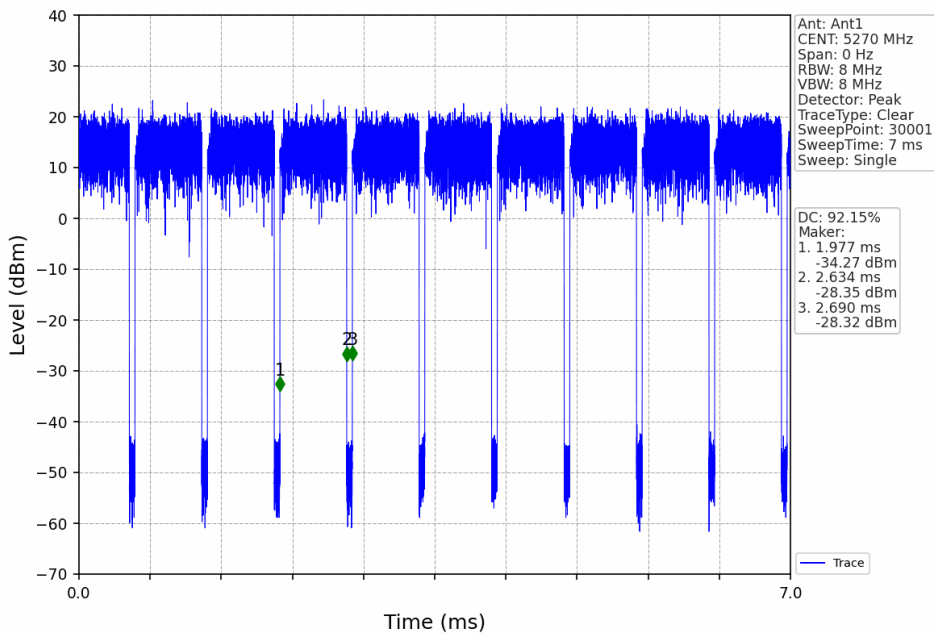
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



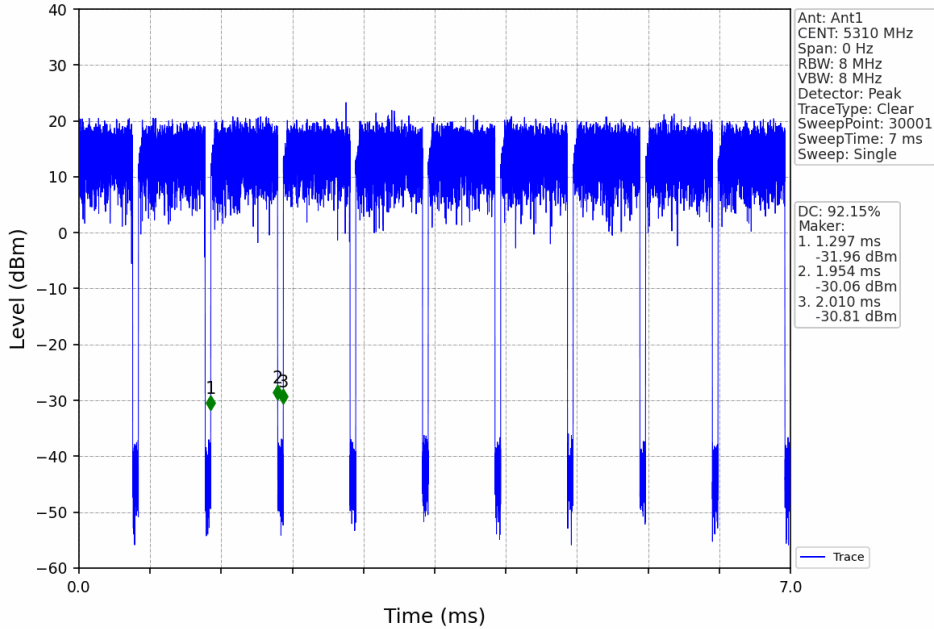
802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



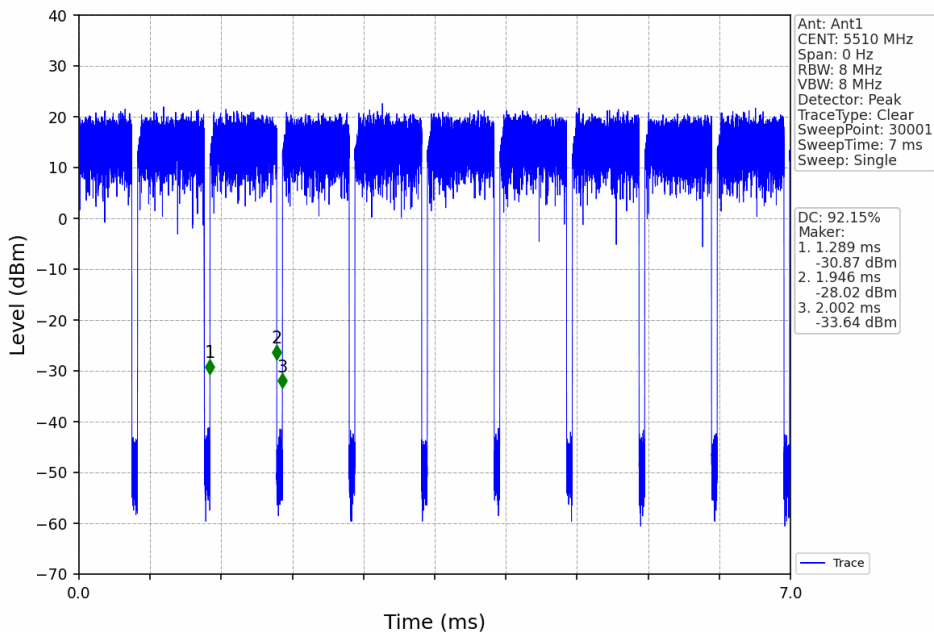
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802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



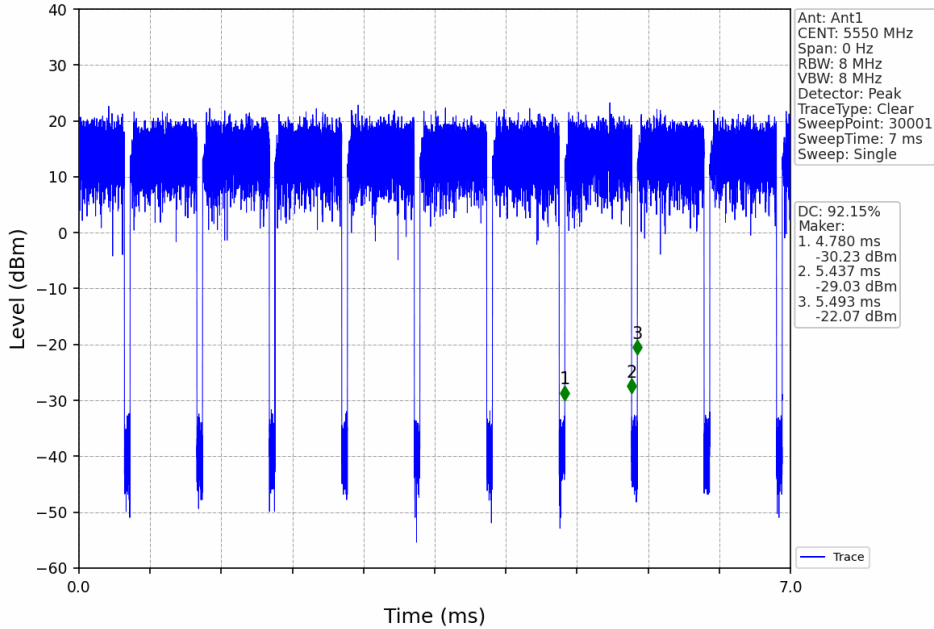
802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV



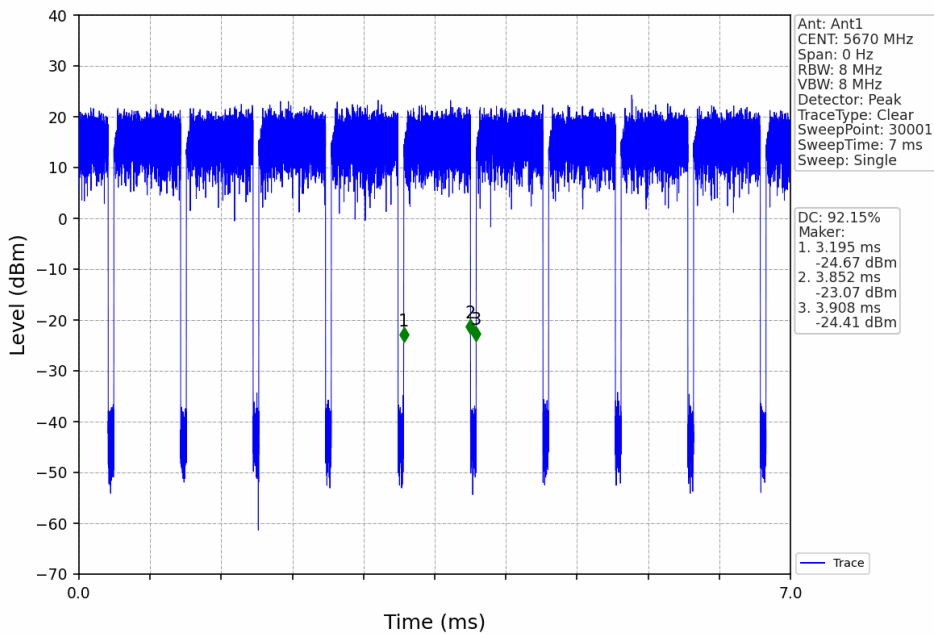
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### 802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



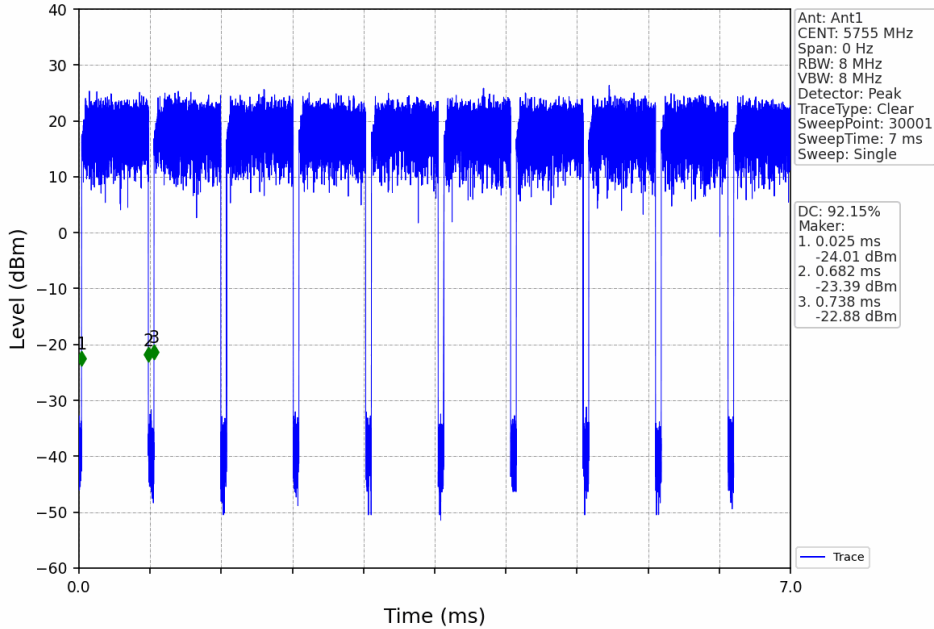
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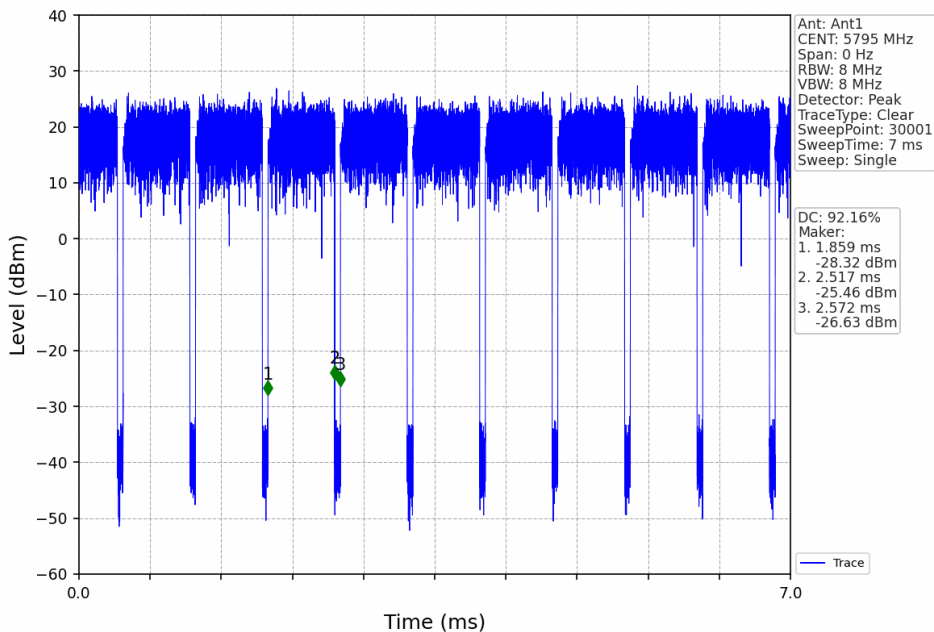
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV

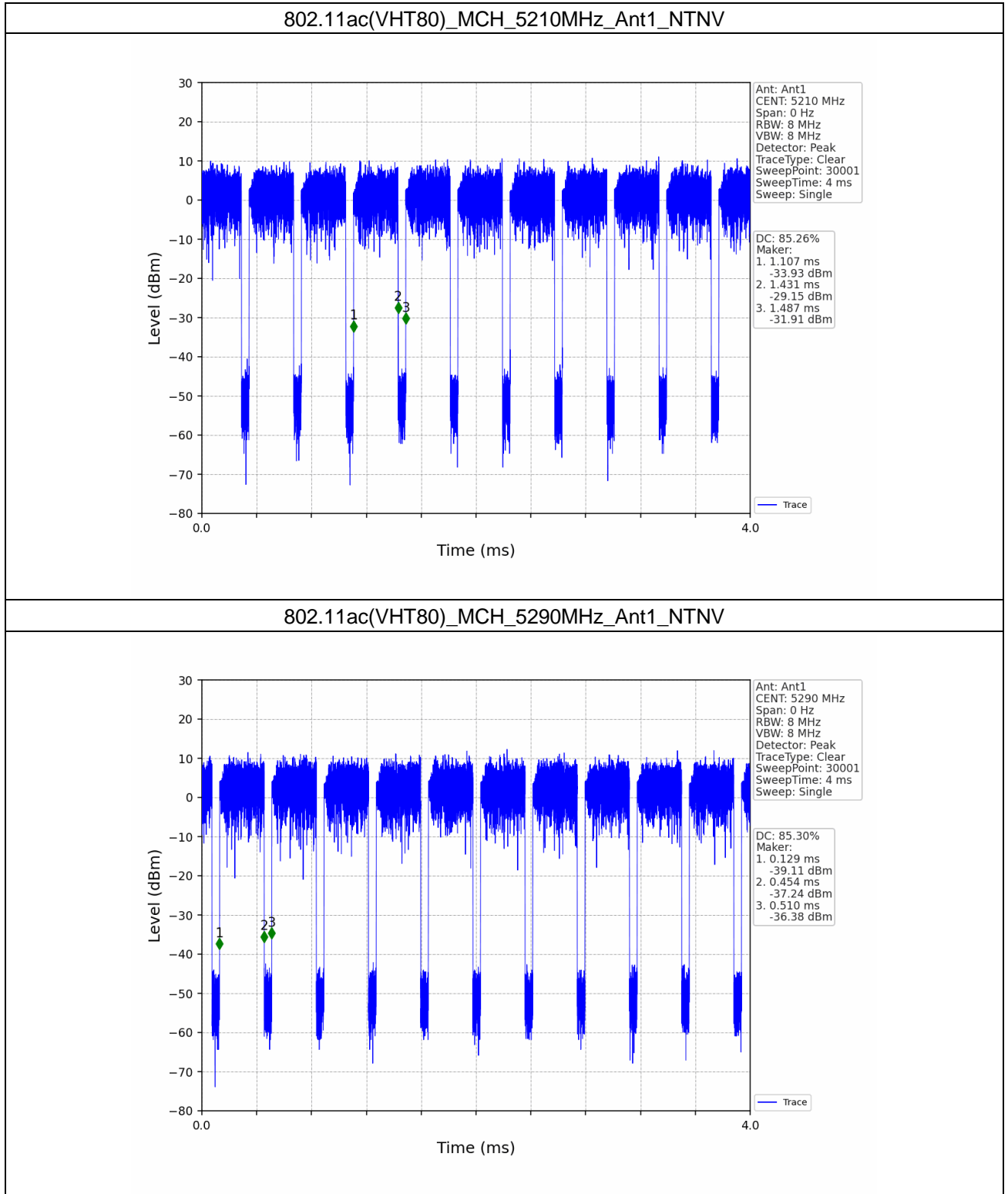


802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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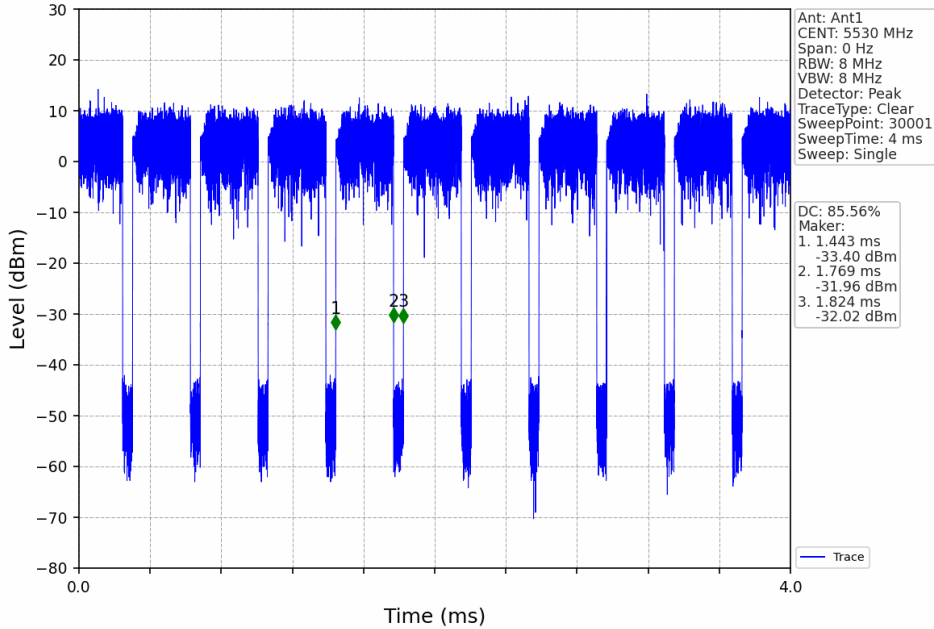
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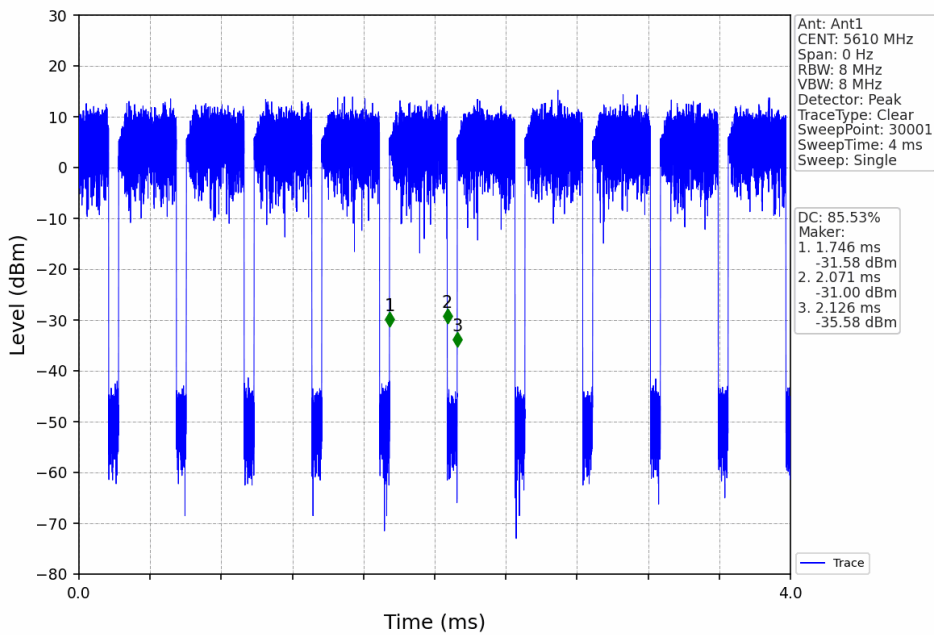
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802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



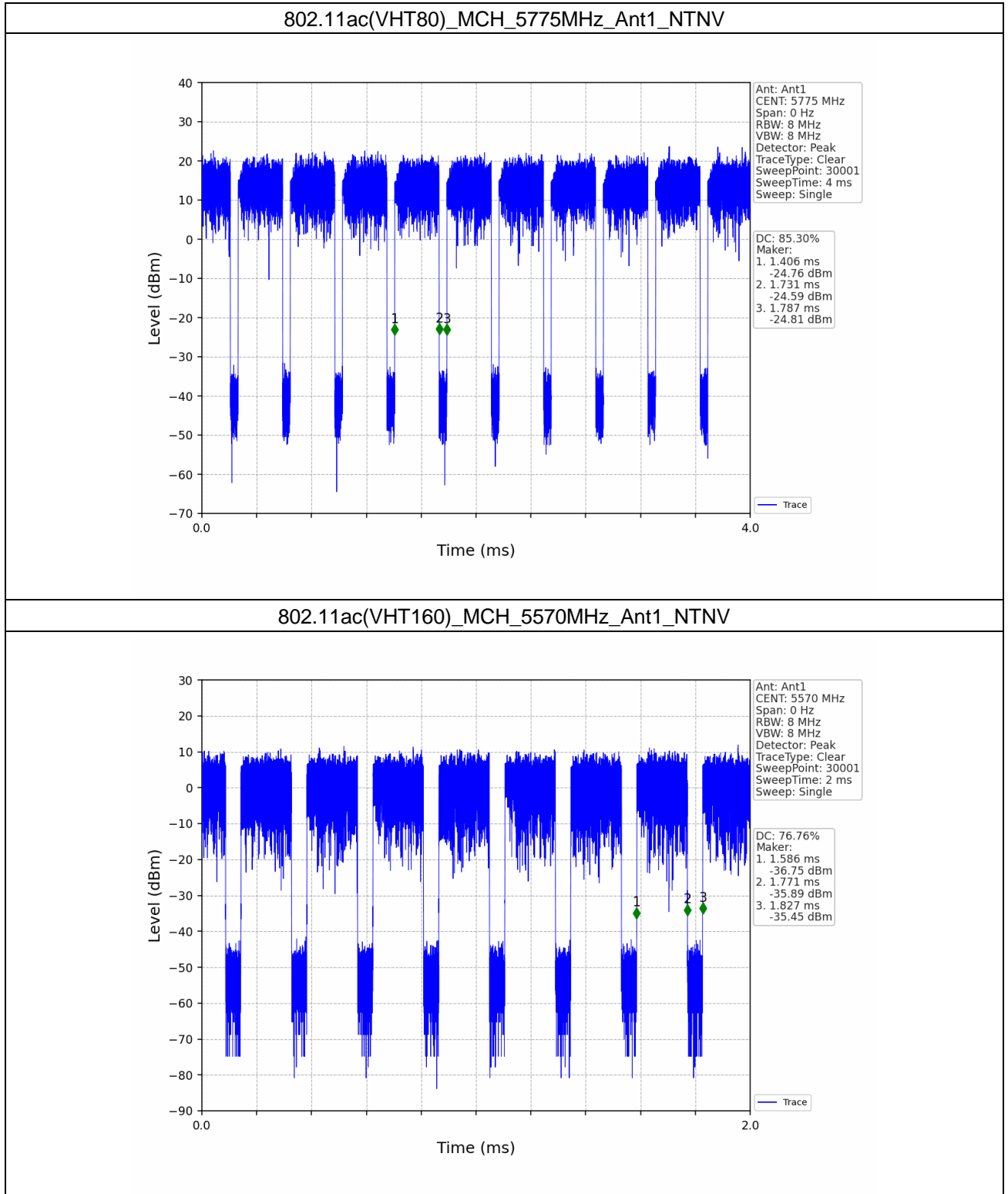
802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



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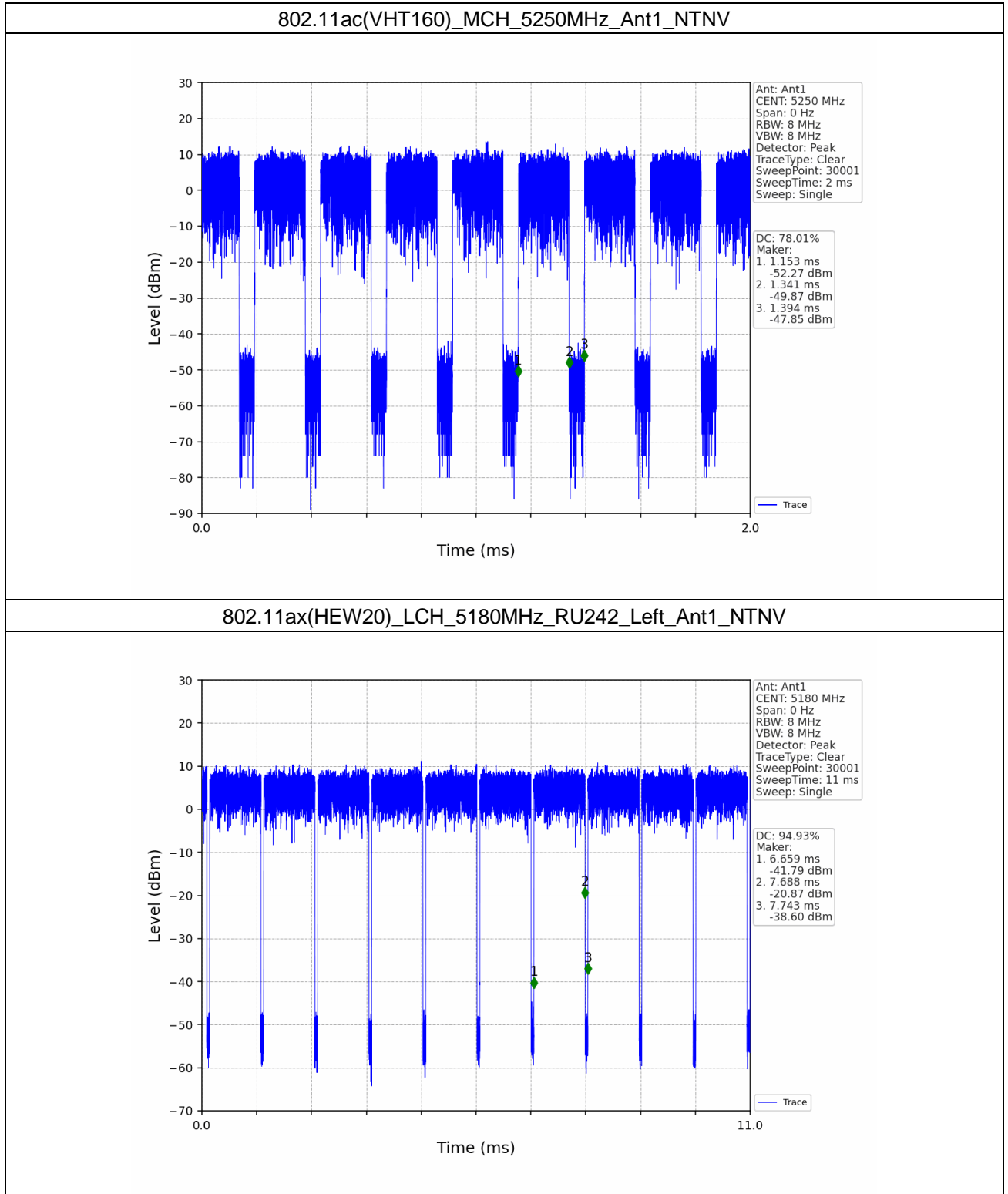
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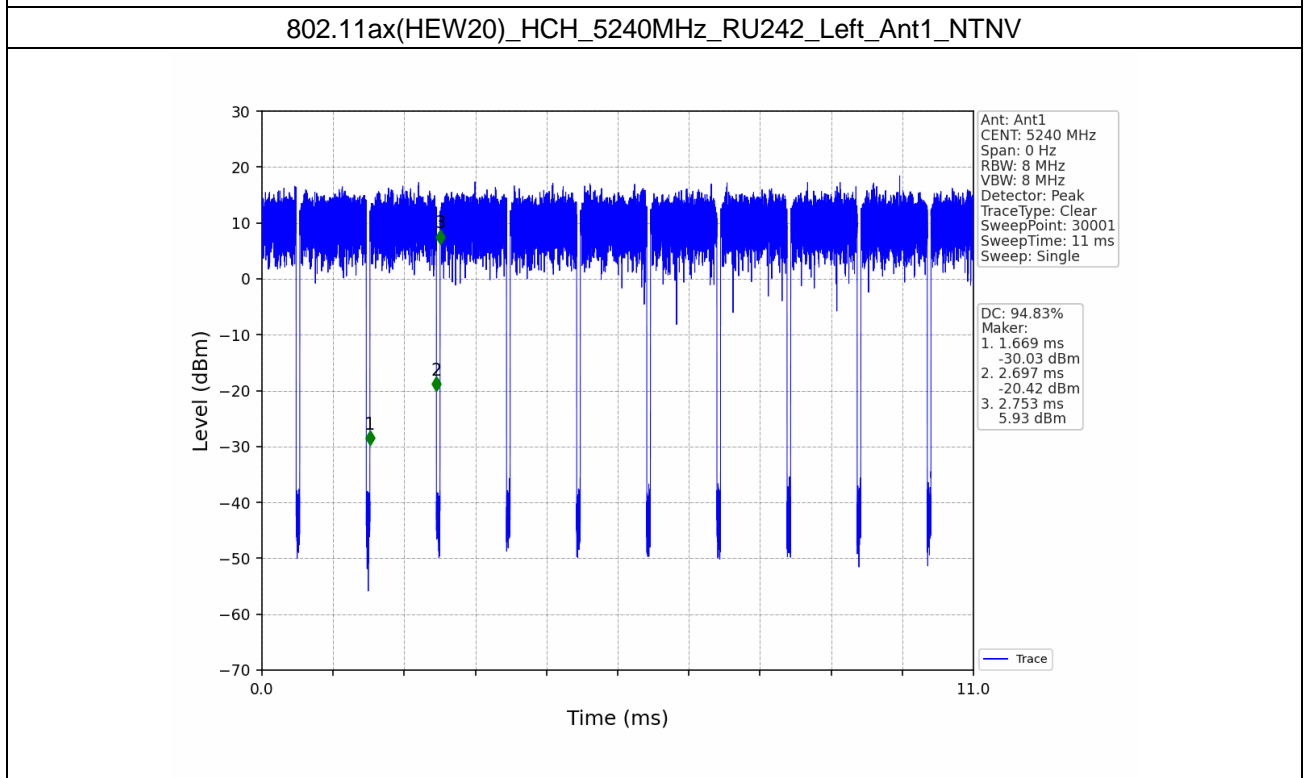
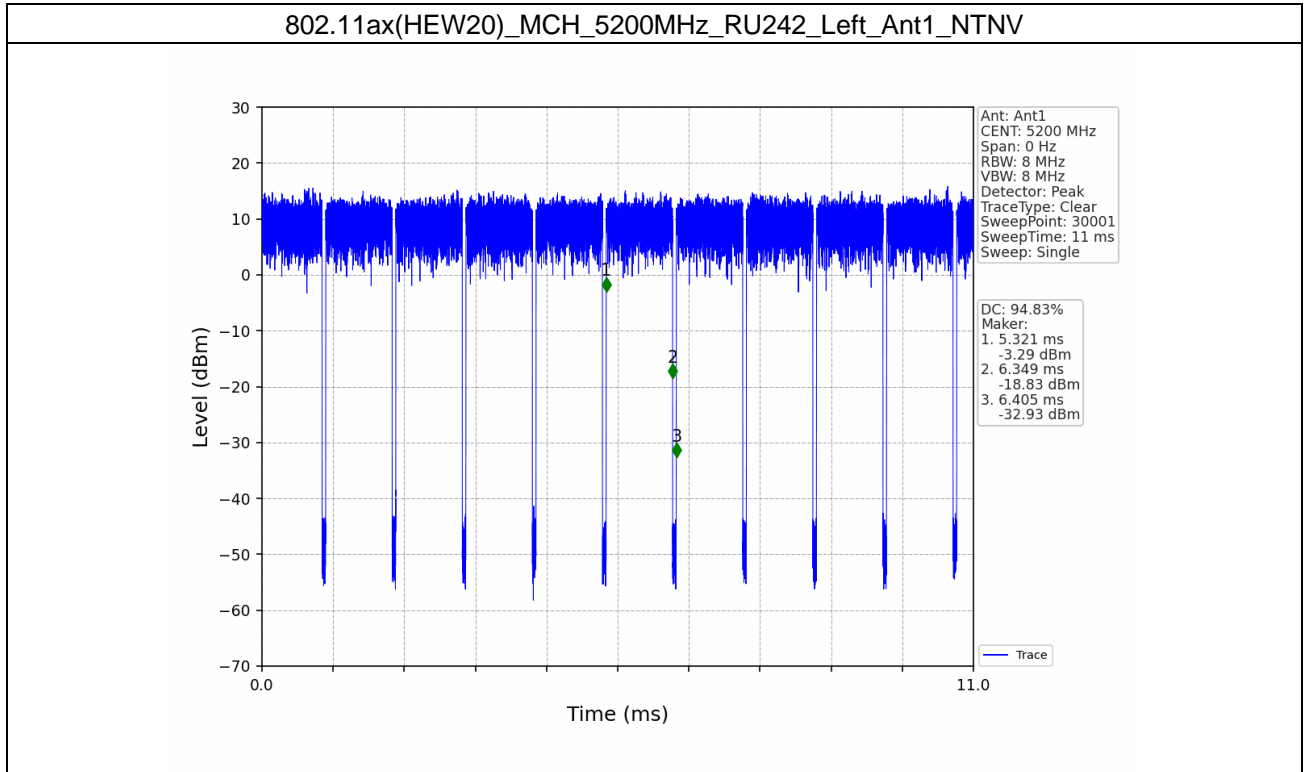
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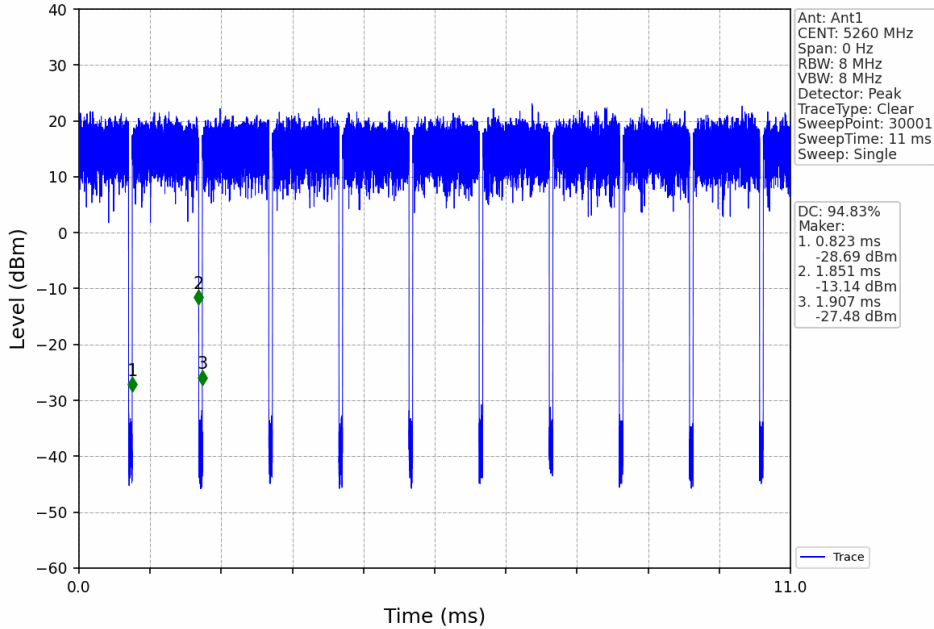
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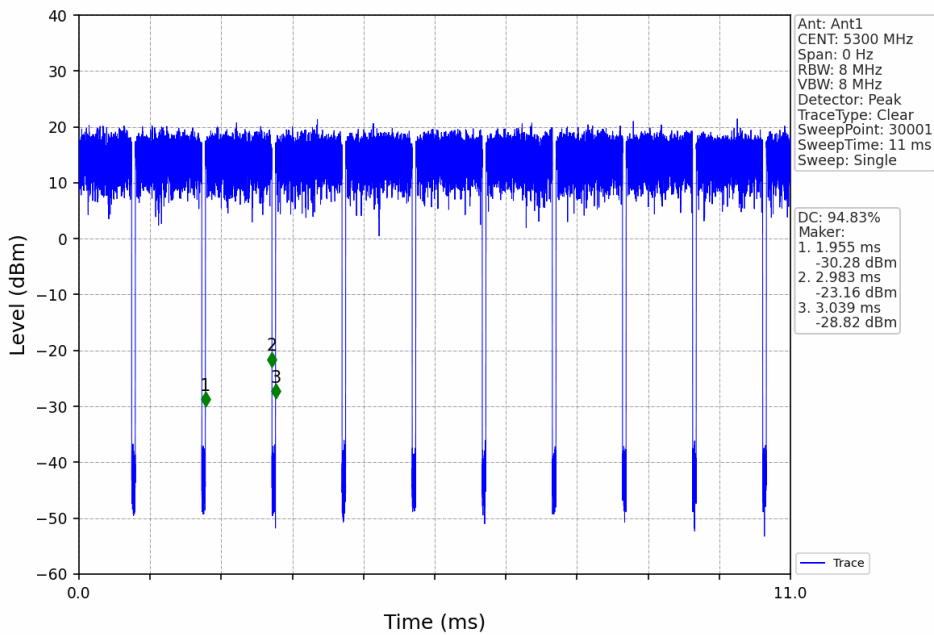
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802.11ax(HEW20)\_LCH\_5260MHz\_RU242\_Left\_Ant1\_NTNV

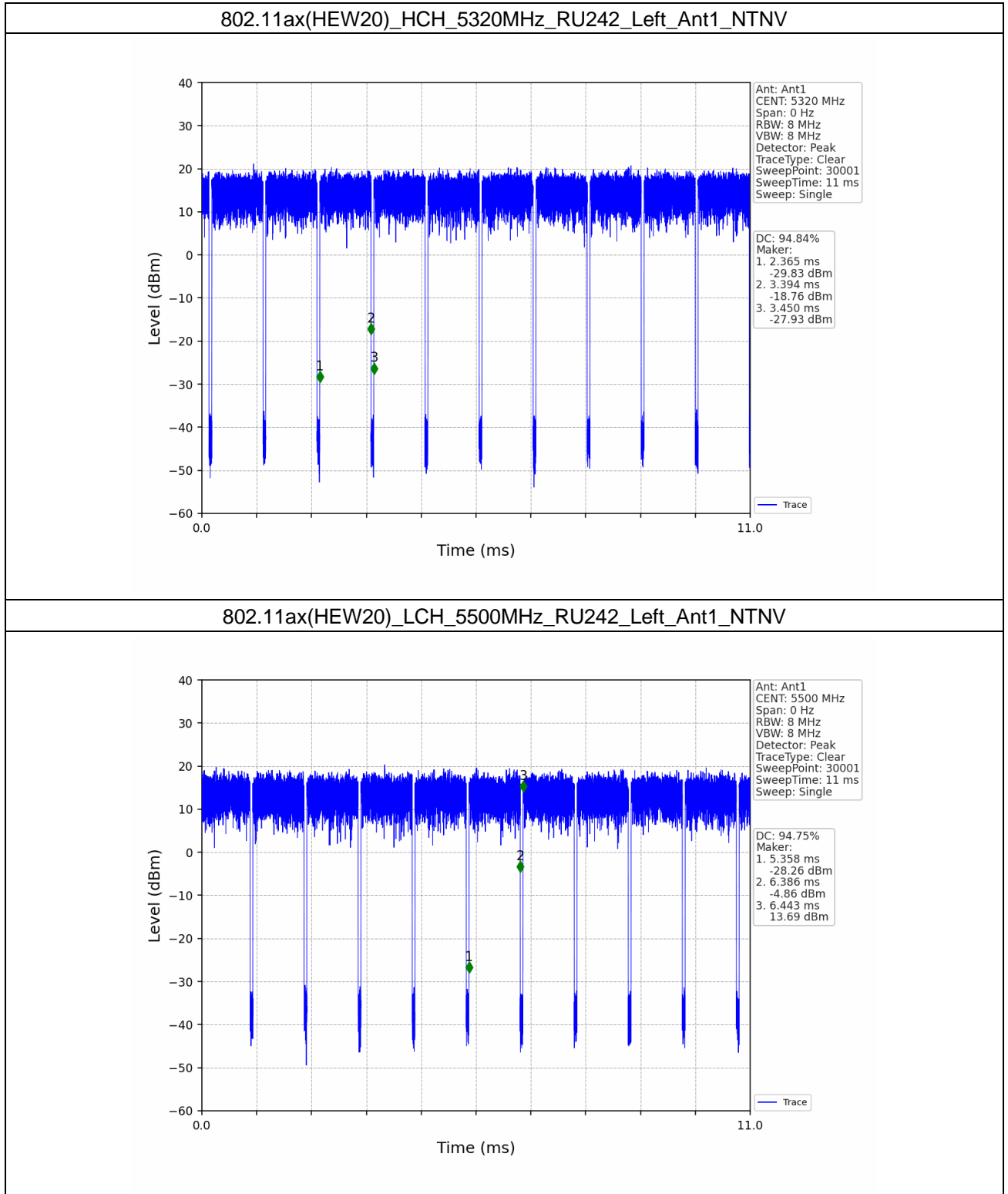


802.11ax(HEW20)\_MCH\_5300MHz\_RU242\_Left\_Ant1\_NTNV



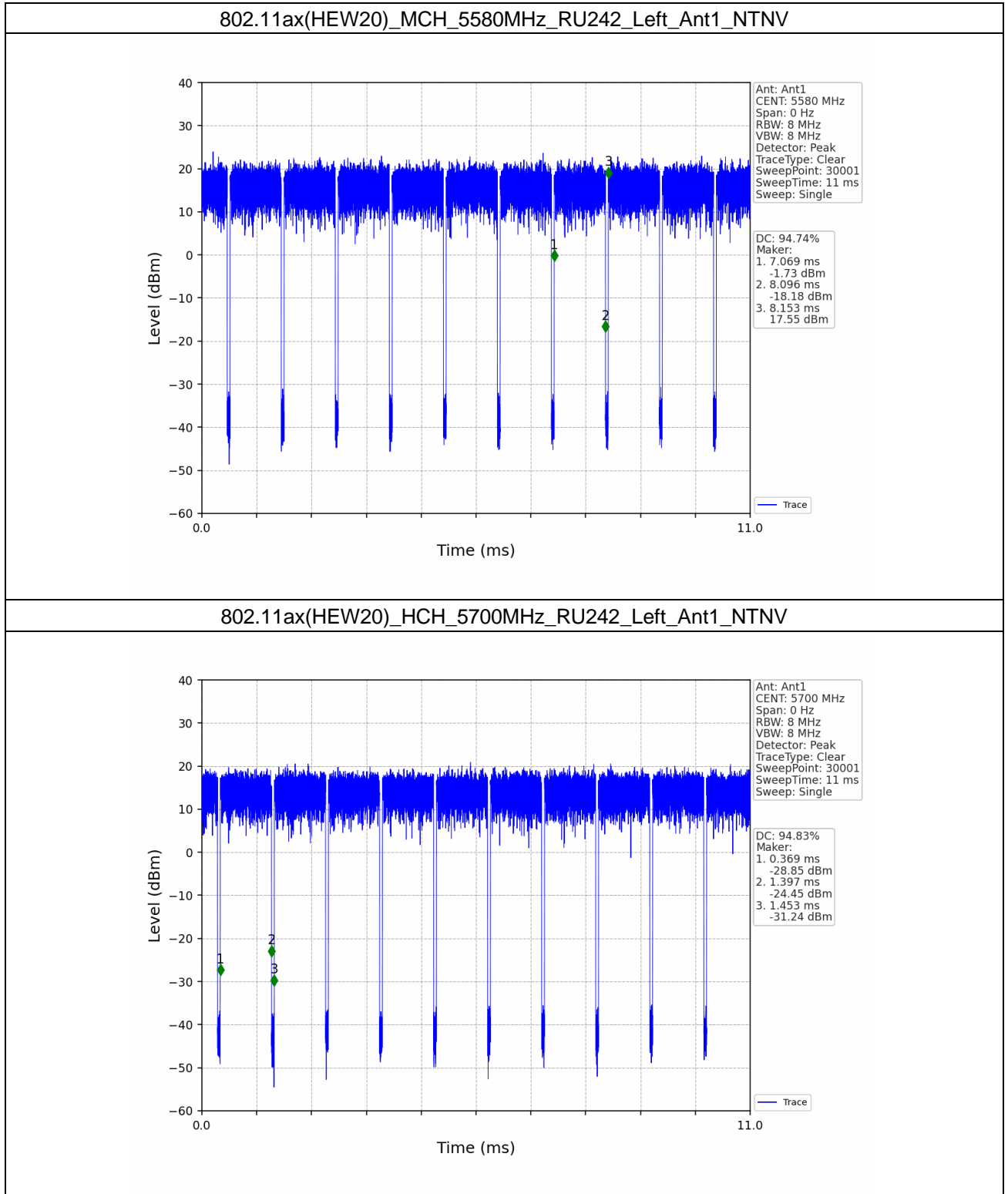
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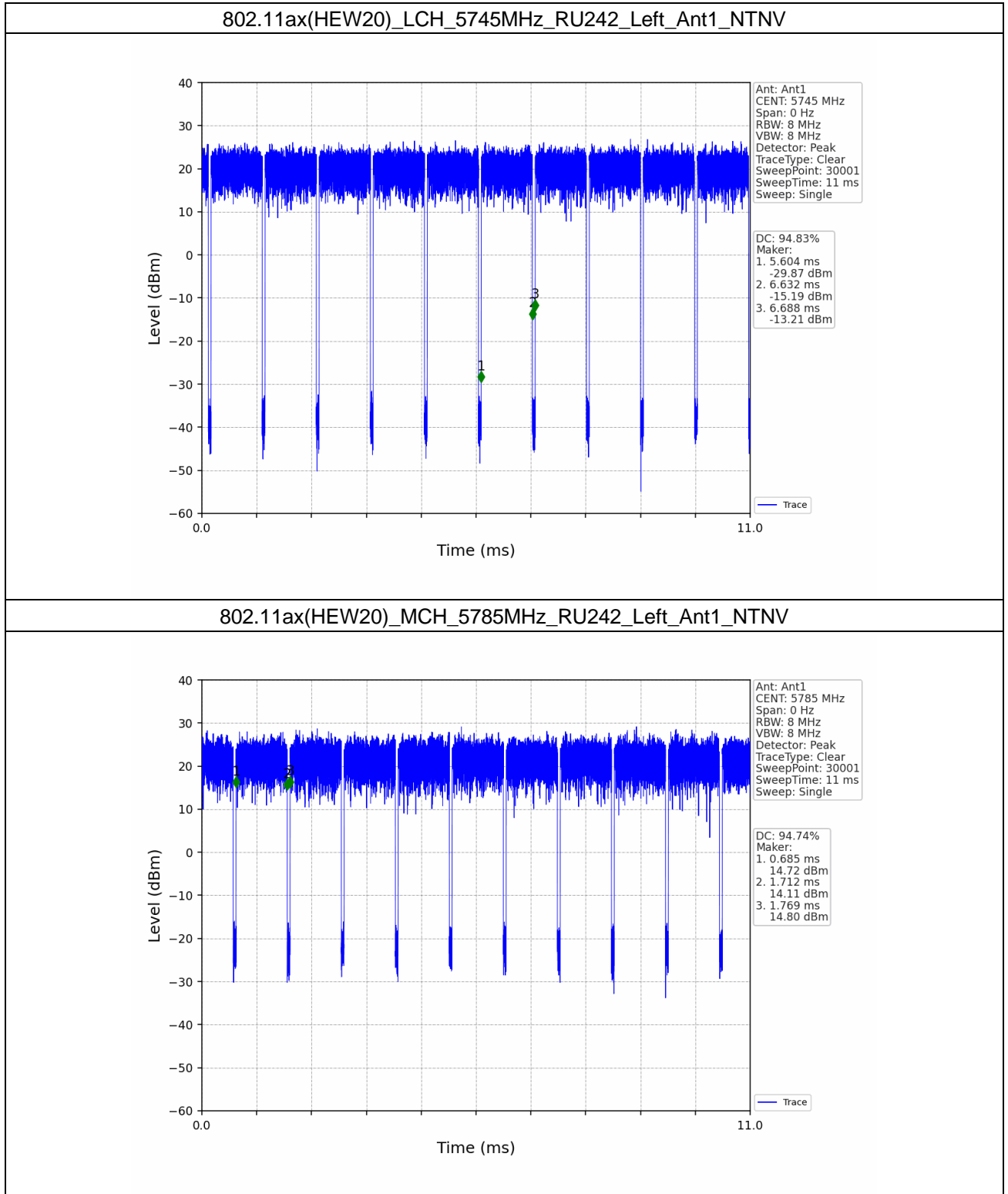
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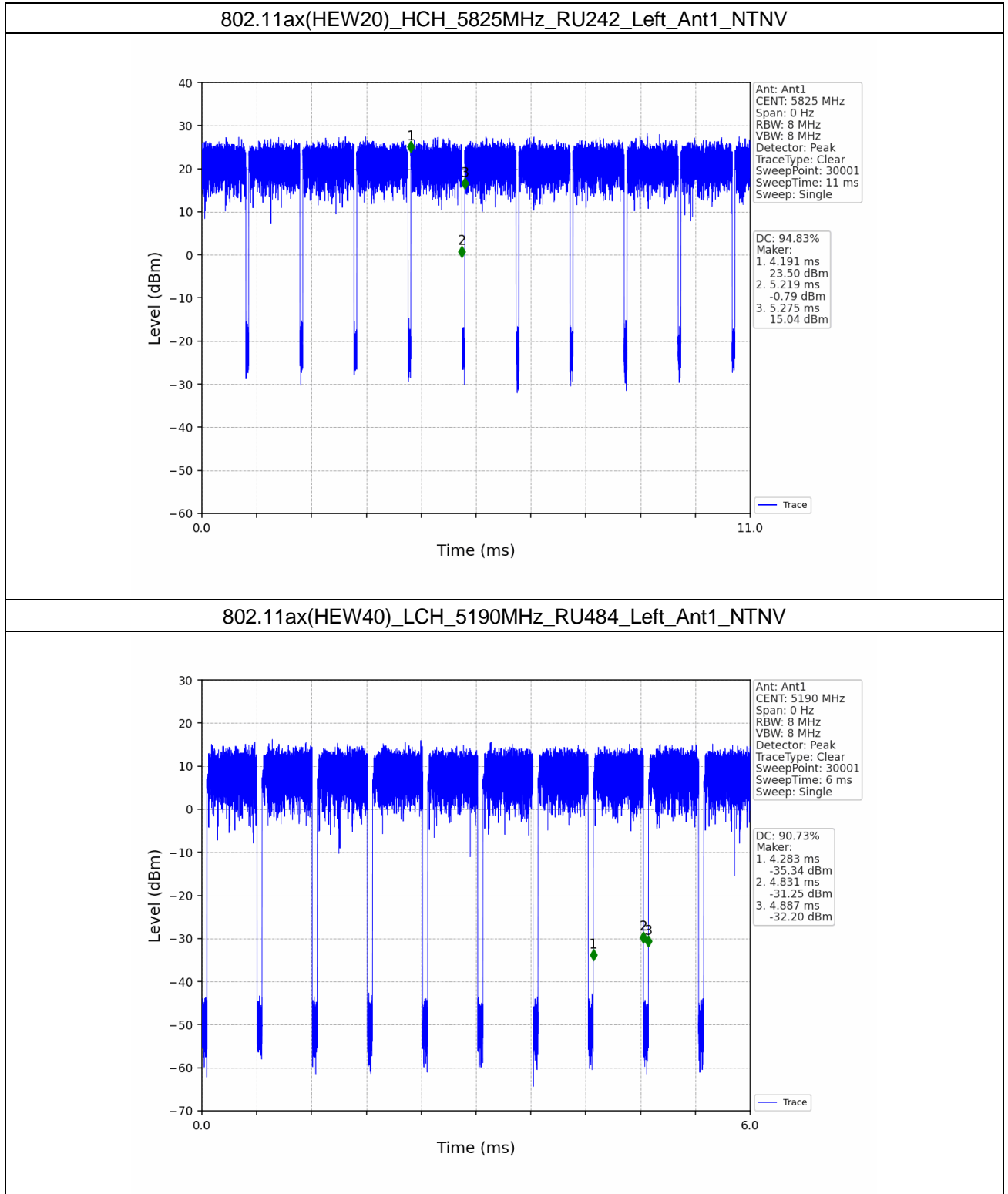
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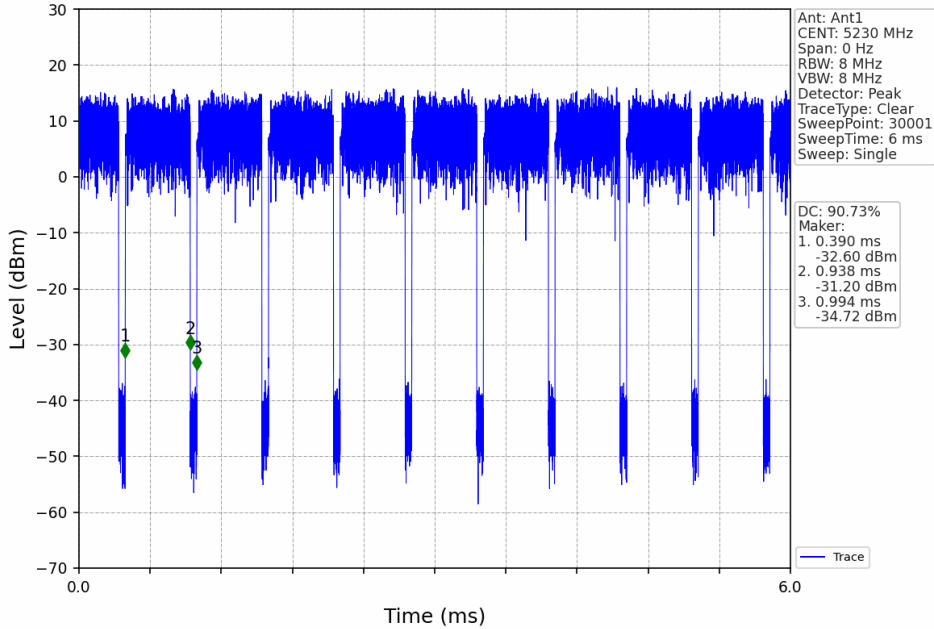


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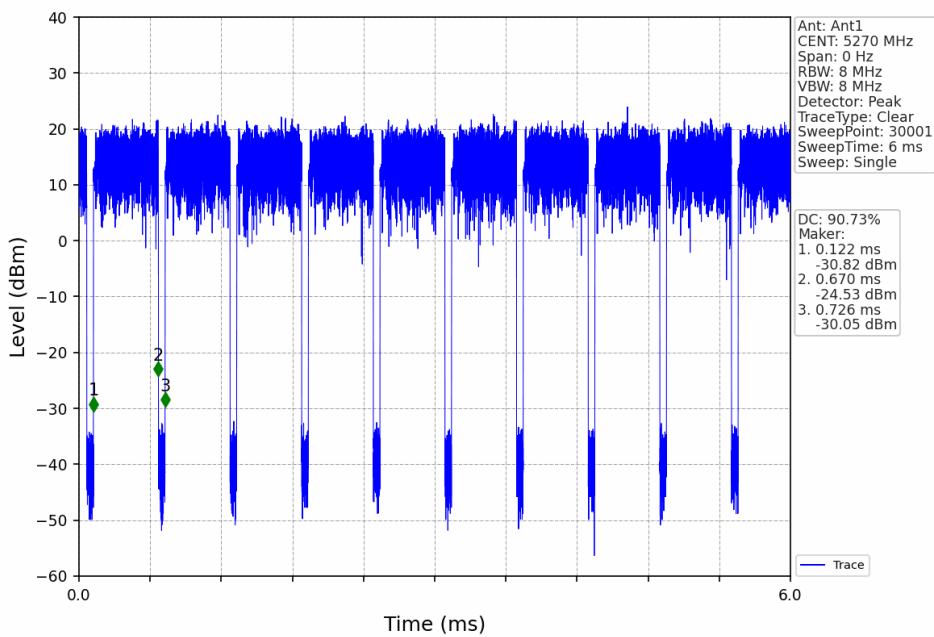
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802.11ax(HEW40)\_HCH\_5230MHz\_RU484\_Left\_Ant1\_NTNV

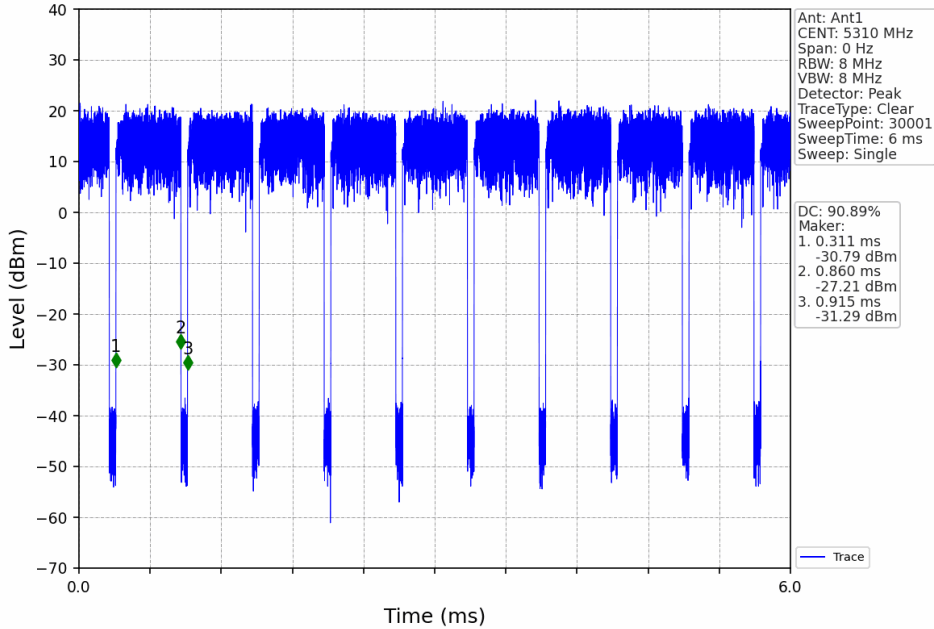


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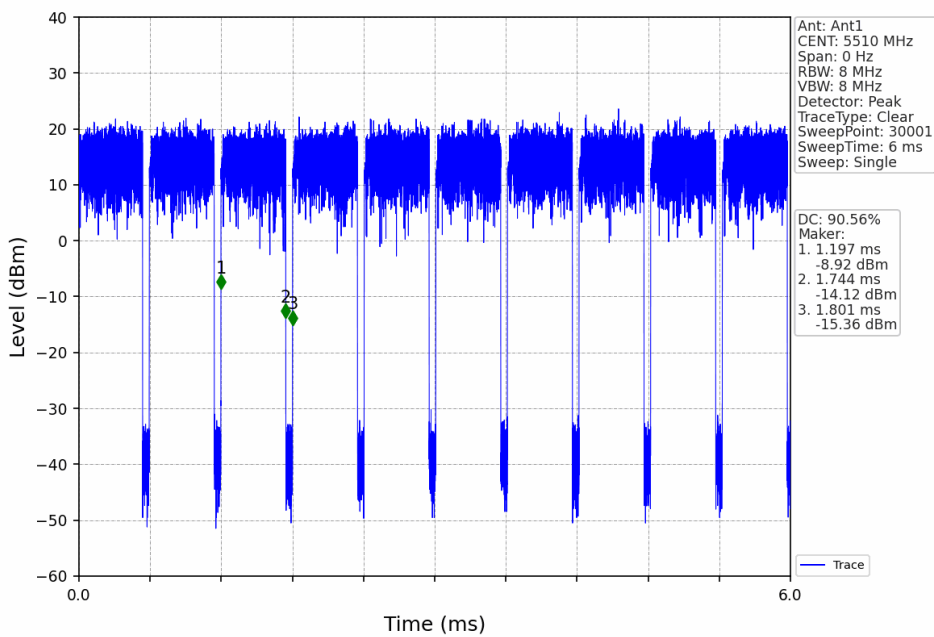


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802.11ax(HEW40)\_LCH\_5510MHz\_RU484\_Left\_Ant1\_NTNV



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