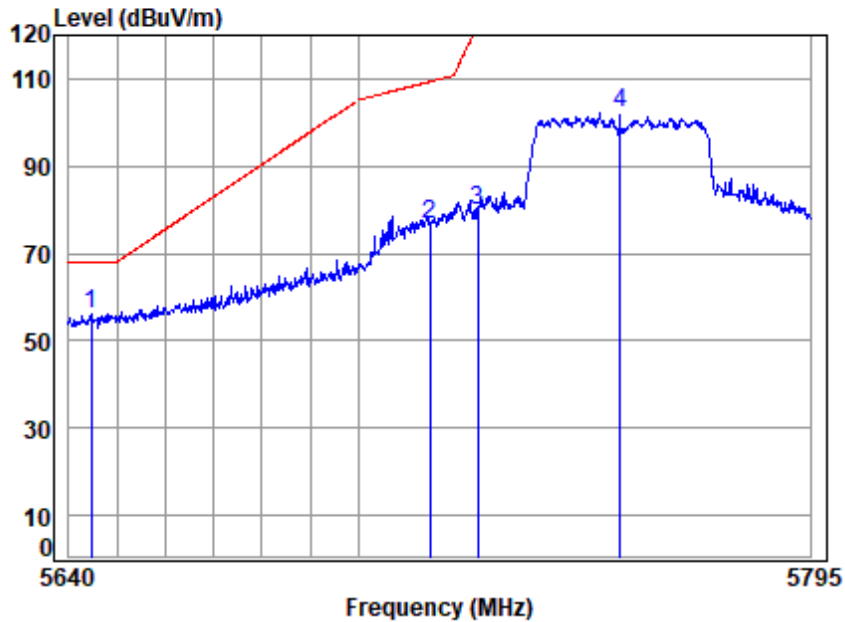


Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



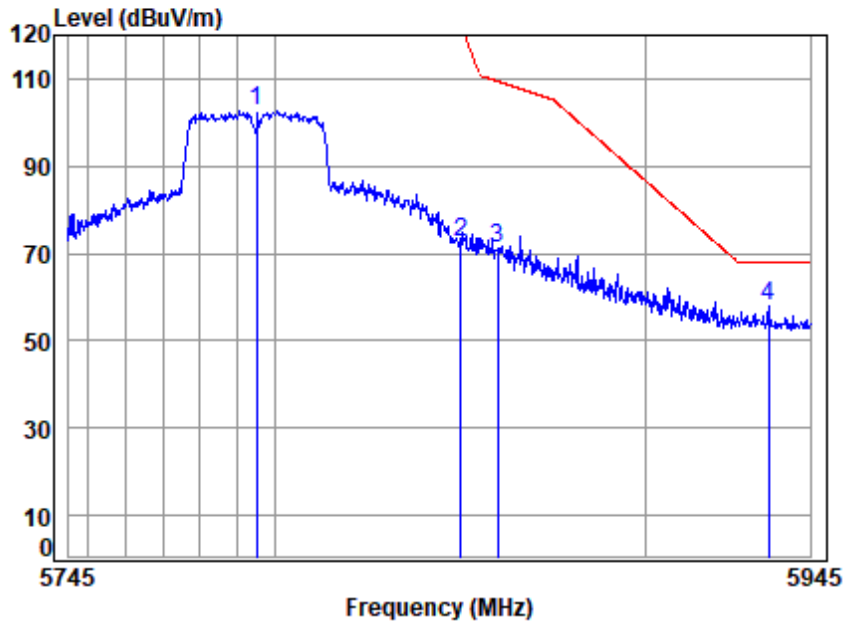
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00783AT/00784AT
 Mode : 5755 Band edge
 : 5G WIFI 11AC40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5644.742	7.92	34.43	35.06	48.92	56.21	68.20	-11.99	peak
2 5715.000	7.97	34.27	35.03	69.35	76.56	109.40	-32.84	peak
3 5725.000	7.98	34.25	35.03	72.73	79.93	122.20	-42.27	peak
4 5755.000	8.00	34.21	35.01	95.21	102.41	-----	-----	peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



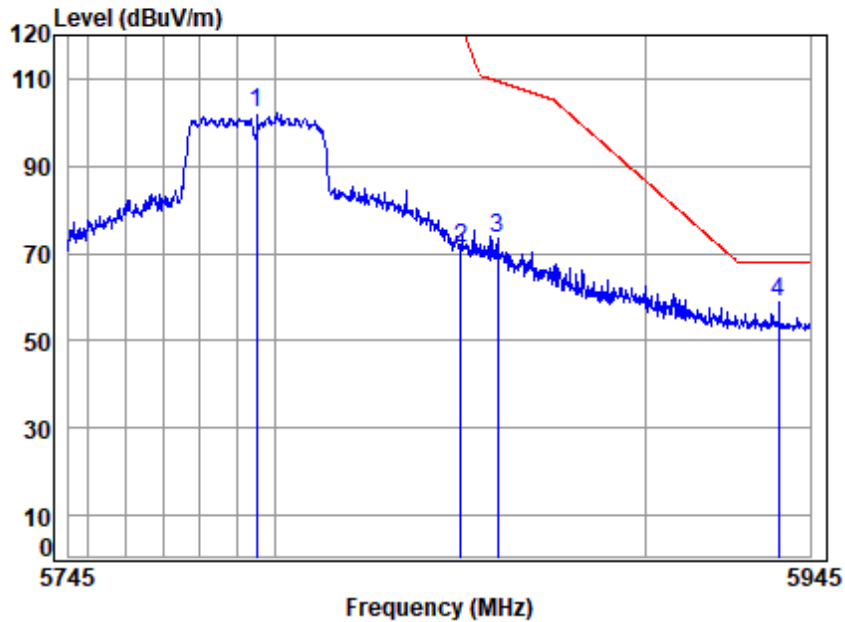
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00783AT/00784AT
 Mode : 5795 Band edge
 : 5G WIFI 11AC40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.03	34.29	34.99	95.47	102.80	-----	----- peak
2	5850.000	8.07	34.40	34.97	65.16	72.66	122.20	-49.54 peak
3	5860.000	8.07	34.44	34.96	63.53	71.08	109.40	-38.32 peak
4 p	5933.618	8.12	34.67	34.93	50.14	58.00	68.20	-10.20 peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



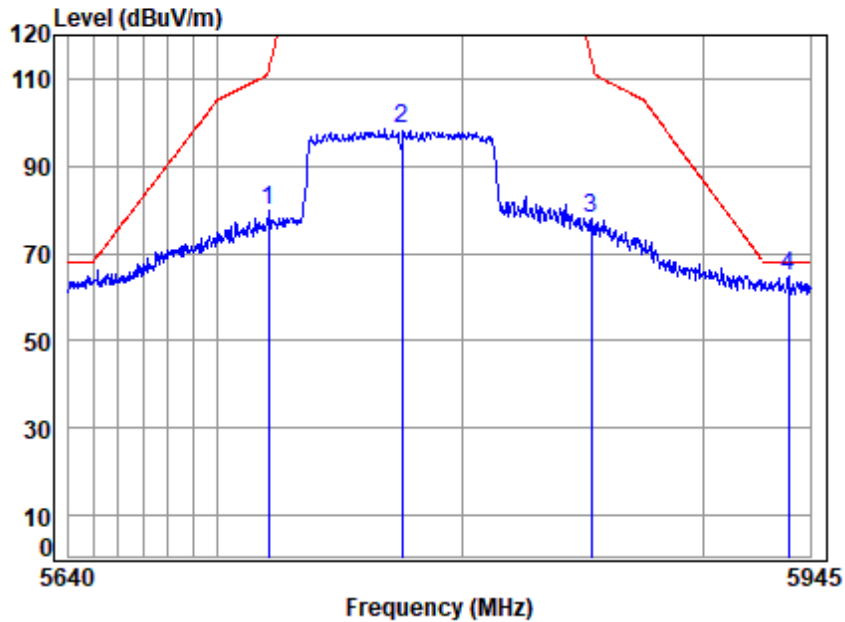
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00783AT/00784AT
 Mode : 5795 Band edge
 : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.03	34.29	34.99	94.79	102.12	-----	-----	peak
2	5850.000	8.07	34.40	34.97	63.88	71.38	122.20	-50.82	peak
3	5860.000	8.07	34.44	34.96	65.70	73.25	109.40	-36.15	peak
4 p	5936.461	8.13	34.67	34.93	51.02	58.89	68.20	-9.31	peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



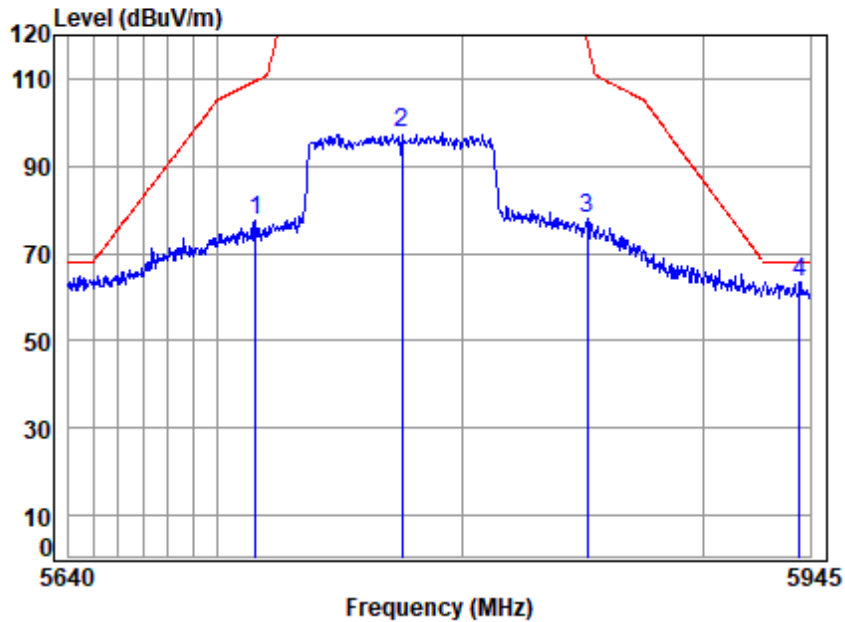
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00783AT/00784AT
 Mode : 5775 Band edge
 : 5G WIFI 11AC80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5720.472	7.98	34.26	35.03	72.47	79.68	111.88	-32.20 peak
2	5775.000	8.01	34.25	35.00	91.44	98.70	-----	----- peak
3	5853.349	8.07	34.41	34.97	70.57	78.08	114.56	-36.48 peak
4 p	5935.927	8.13	34.67	34.93	56.84	64.71	68.20	-3.49 peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



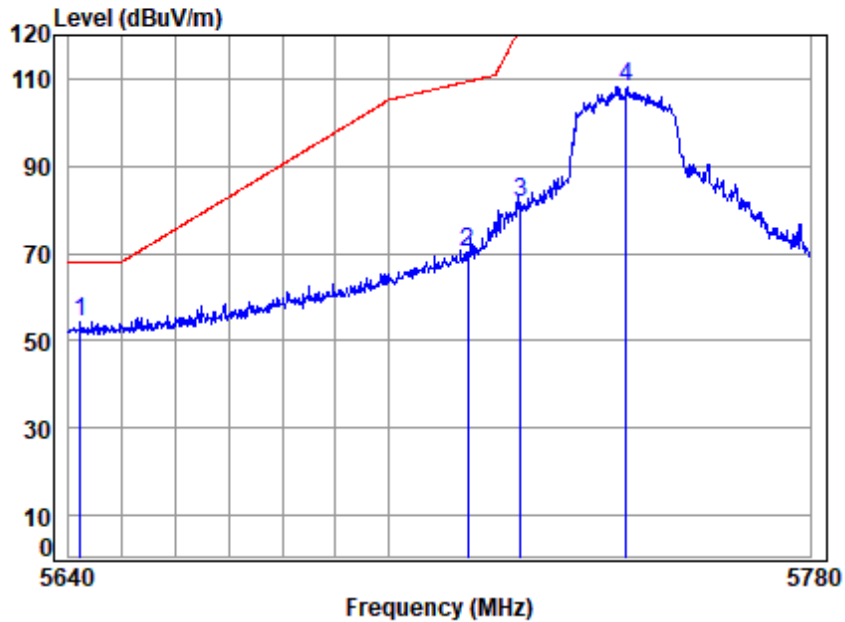
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00783AT/00784AT
 Mode : 5775 Band edge
 : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.353	7.97	34.27	35.03	70.24	77.45	109.50	-32.05 peak
2	5775.000	8.01	34.25	35.00	90.31	97.57	-----	peak
3	5851.500	8.07	34.41	34.97	70.32	77.83	118.78	-40.95 peak
4 p	5940.618	8.13	34.68	34.93	55.75	63.63	68.20	-4.57 peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



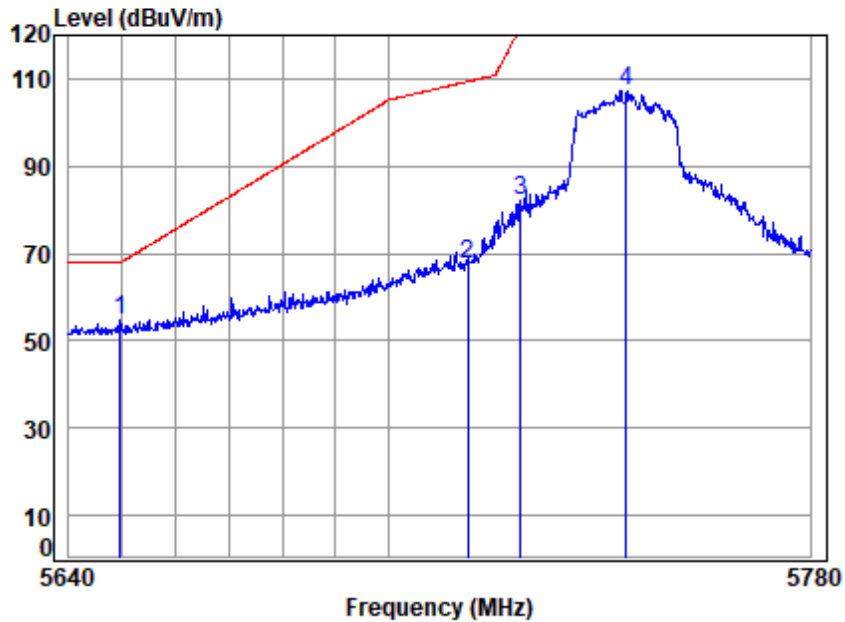
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00783AT/00784AT
 Mode : 5745 Band edge
 : 5G WIFI 11AX20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5642.213	7.92	34.45	35.07	46.99	54.29	68.20	-13.91	peak
2 5715.000	7.97	34.27	35.03	63.26	70.47	109.40	-38.93	peak
3 5725.000	7.98	34.25	35.03	74.45	81.65	122.20	-40.55	peak
4 5745.000	7.99	34.21	35.02	101.04	108.22	-----	-----	peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



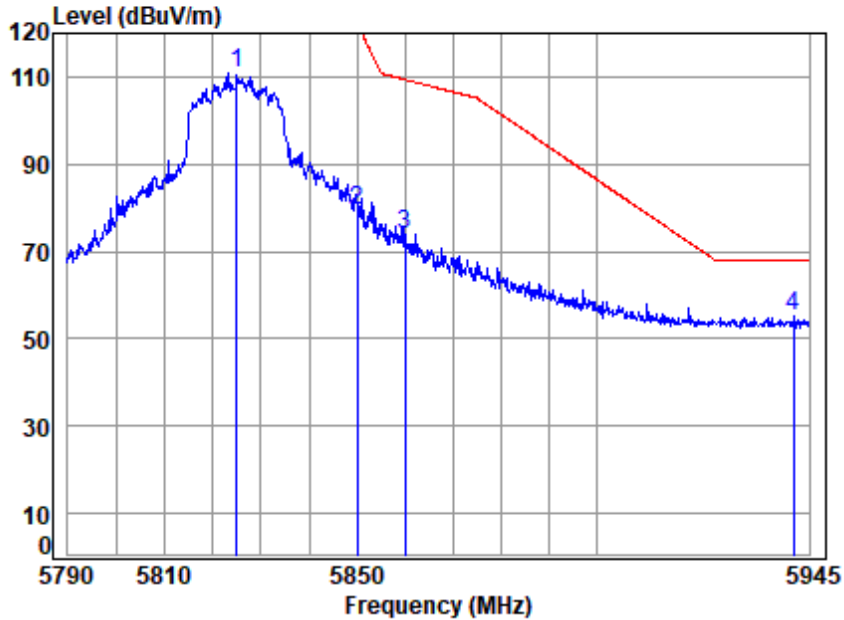
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00783AT/00784AT
 Mode : 5745 Band edge
 : 5G WIFI 11AX20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5649.688	7.93	34.40	35.06	47.41	54.68	68.20	-13.52	peak
2 5715.000	7.97	34.27	35.03	60.31	67.52	109.40	-41.88	peak
3 5725.000	7.98	34.25	35.03	74.82	82.02	122.20	-40.18	peak
4 5745.000	7.99	34.21	35.02	100.08	107.26	-----	-----	peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



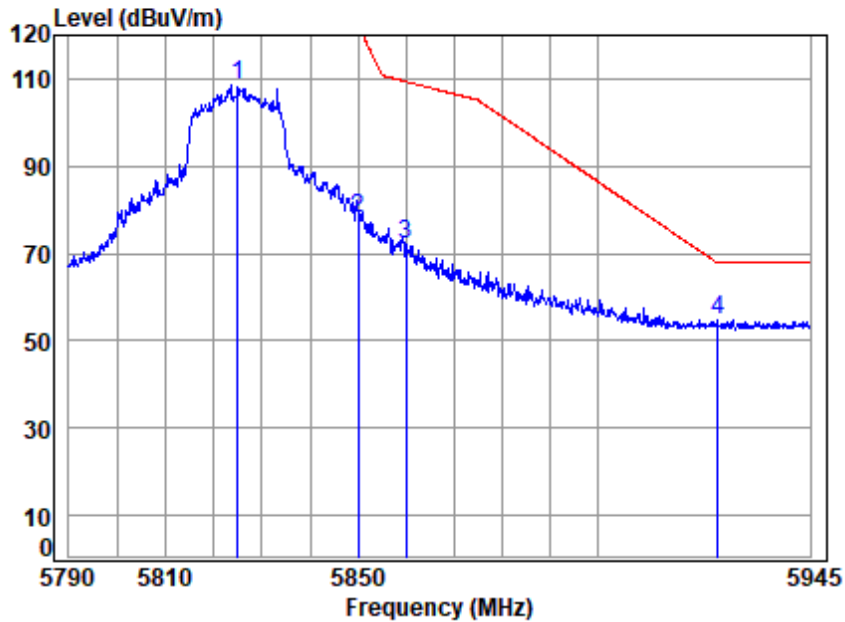
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00783AT/00784AT
 Mode : 5825 Band edge
 : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	103.26	110.68	-----	-----	peak
2	5850.000	8.07	34.40	34.97	71.78	79.28	122.20	-42.92	peak
3	5860.000	8.07	34.44	34.96	66.39	73.94	109.40	-35.46	peak
4 p	5941.703	8.13	34.68	34.93	47.34	55.22	68.20	-12.98	peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



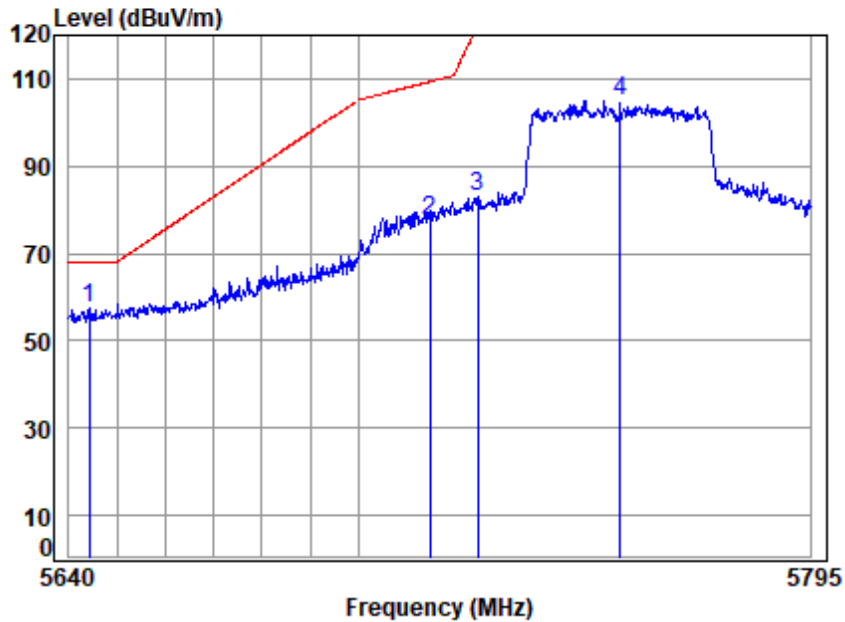
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00783AT/00784AT
 Mode : 5825 Band edge
 : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	100.97	108.39	-----	-----	peak
2	5850.000	8.07	34.40	34.97	70.50	78.00	122.20	-44.20	peak
3	5860.000	8.07	34.44	34.96	64.32	71.87	109.40	-37.53	peak
4 p	5925.400	8.12	34.65	34.93	46.69	54.53	68.20	-13.67	peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11 ax(Full RU0); Bandwidth:40MHz; Channel:Low



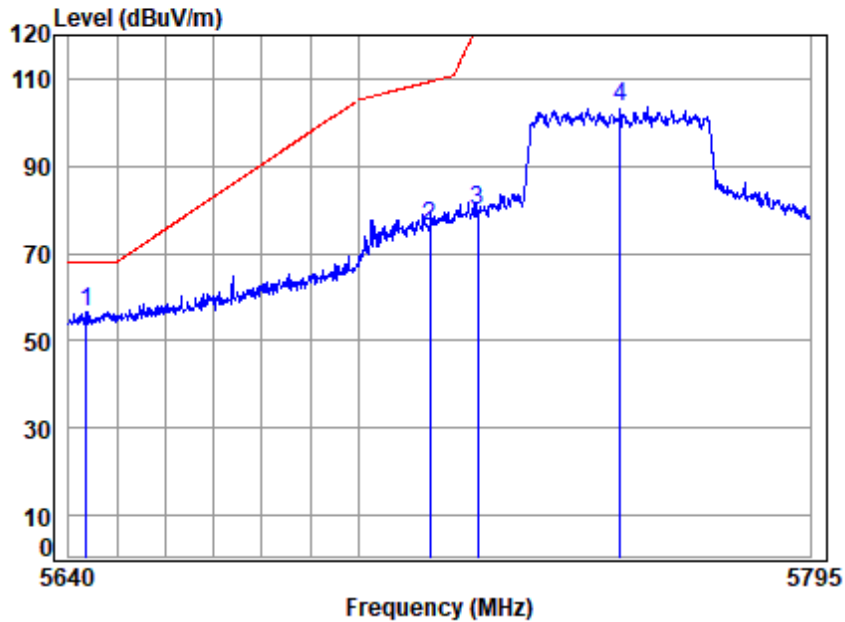
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00783AT/00784AT
 Mode : 5755 Band edge
 : 5G WIFI 11AX40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5644.283	7.92	34.43	35.06	50.15	57.44	68.20	-10.76	peak
2 5715.000	7.97	34.27	35.03	70.19	77.40	109.40	-32.00	peak
3 5725.000	7.98	34.25	35.03	75.74	82.94	122.20	-39.26	peak
4 5755.000	8.00	34.21	35.01	97.93	105.13	-----	-----	peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00783AT/00784AT
 Mode : 5755 Band edge
 : 5G WIFI 11AX40

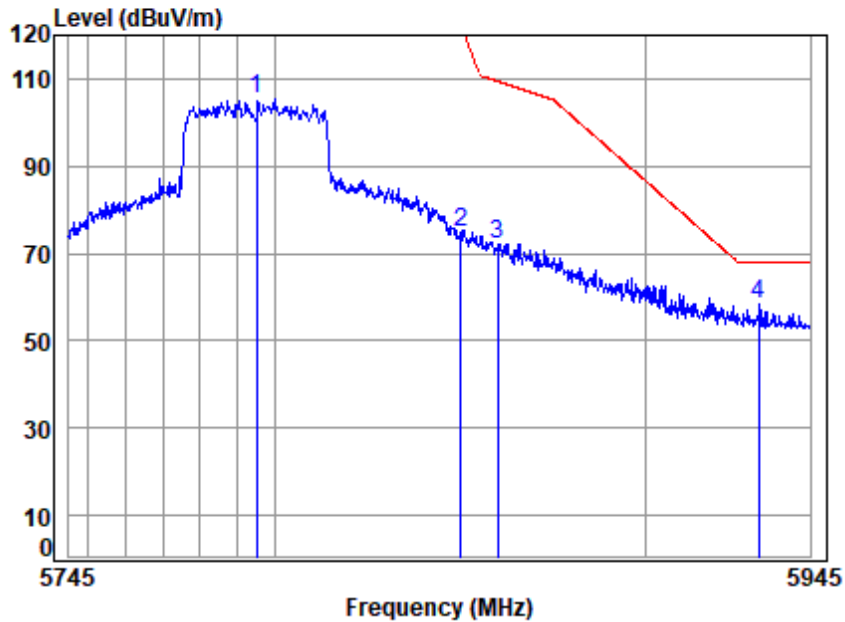
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5643.671	7.92	34.44	35.06	49.20	56.50	68.20	-11.70	peak
2 5715.000	7.97	34.27	35.03	68.77	75.98	109.40	-33.42	peak
3 5725.000	7.98	34.25	35.03	72.72	79.92	122.20	-42.28	peak
4 5755.000	8.00	34.21	35.01	96.25	103.45	-----	-----	peak



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 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



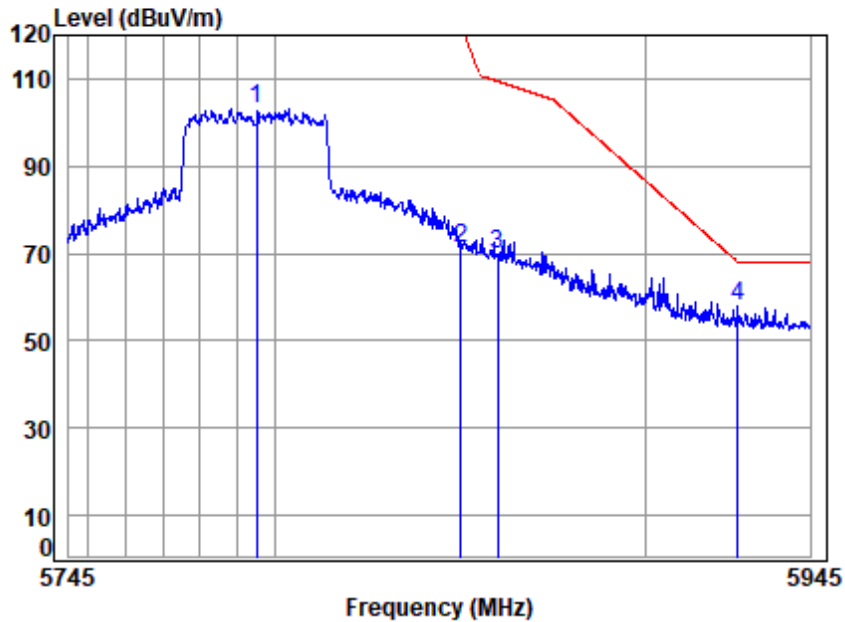
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00783AT/00784AT
 Mode : 5795 Band edge
 : 5G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	8.03	34.29	34.99	98.18	105.51	-----	peak
2	5850.000	8.07	34.40	34.97	67.26	74.76	122.20	-47.44 peak
3	5860.000	8.07	34.44	34.96	64.40	71.95	109.40	-37.45 peak
4 p	5930.979	8.12	34.66	34.93	50.50	58.35	68.20	-9.85 peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



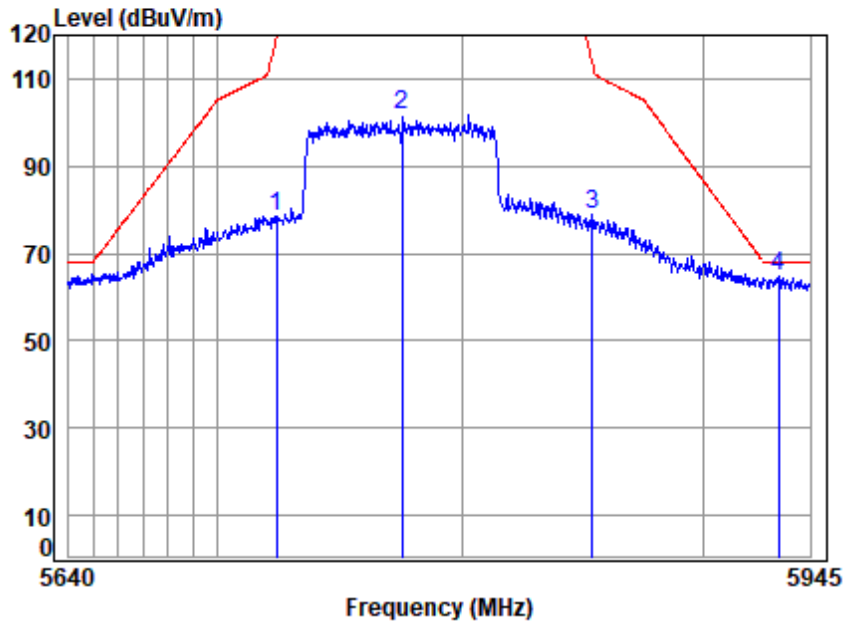
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00783AT/00784AT
 Mode : 5795 Band edge
 : 5G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.03	34.29	34.99	95.70	103.03	-----	-----	peak
2	5850.000	8.07	34.40	34.97	63.69	71.19	122.20	-51.01	peak
3	5860.000	8.07	34.44	34.96	62.18	69.73	109.40	-39.67	peak
4 p	5925.096	8.12	34.65	34.93	49.95	57.79	68.20	-10.41	peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00783AT/00784AT
 Mode : 5775 Band edge
 : 5G WIFI 11AX80

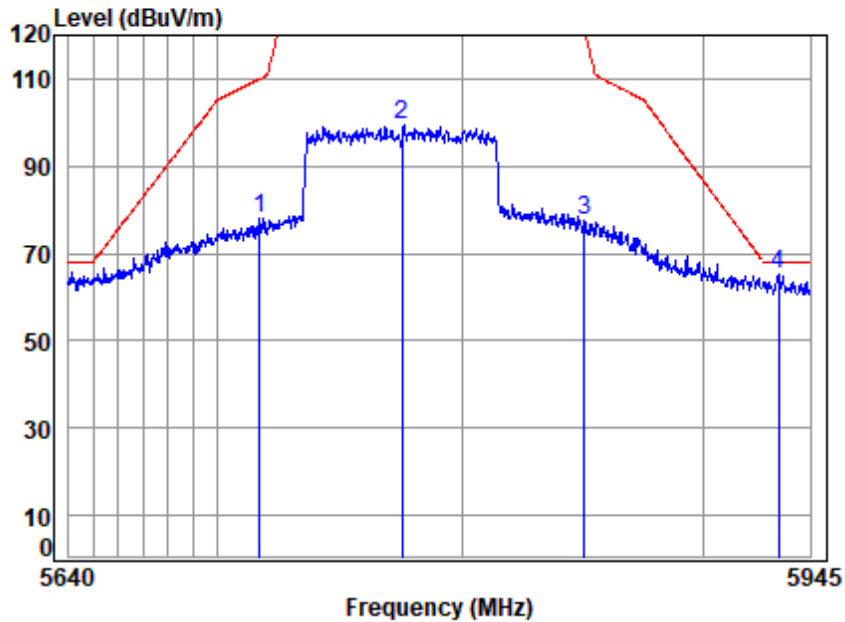
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7.98	34.25	35.03	71.27	78.47	119.44	-40.97	peak
2	8.01	34.25	35.00	94.32	101.58	-----	-----	peak
3	8.07	34.41	34.97	71.27	78.78	113.86	-35.08	peak
4 p	8.12	34.66	34.93	56.85	64.70	68.20	-3.50	peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00783AT/00784AT
 Mode : 5775 Band edge
 : 5G WIFI 11AX80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5716.858	7.97	34.27	35.03	70.99	78.20	109.92	-31.72 peak
2	5775.000	8.01	34.25	35.00	92.10	99.36	-----	----- peak
3	5850.575	8.07	34.40	34.97	69.95	77.45	120.89	-43.44 peak
4 p	5931.552	8.12	34.66	34.93	57.57	65.42	68.20	-2.78 peak



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7.11 Frequency Stability

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

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

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 36.4 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

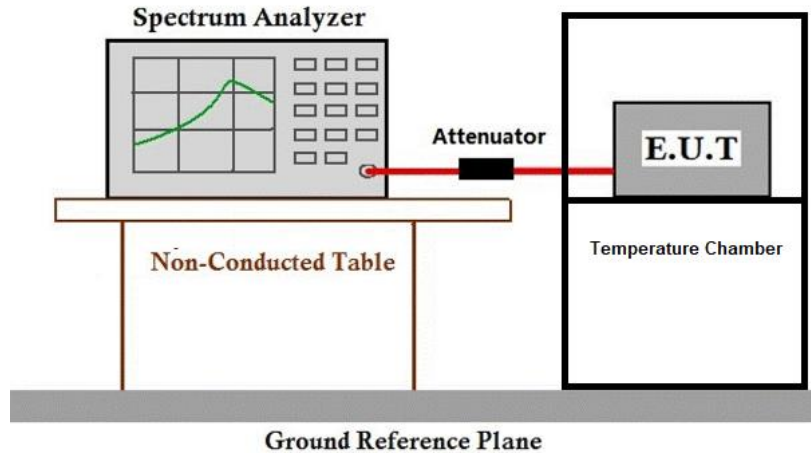
Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	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/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



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7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.12 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1
 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



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7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

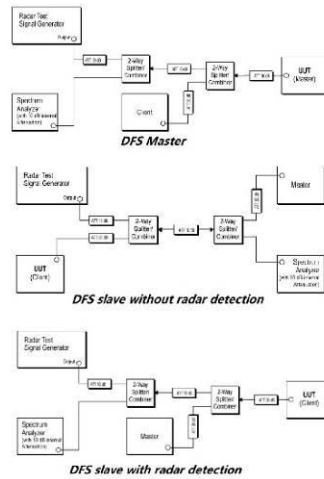
Humidity: 52.6 % RH

Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Normal operating_Keep the EUT communication with the companion device.

7.12.3 Test Setup Diagram



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7.12.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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7.13 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 52.0 % RH Atmospheric Pressure: 1020 mbar

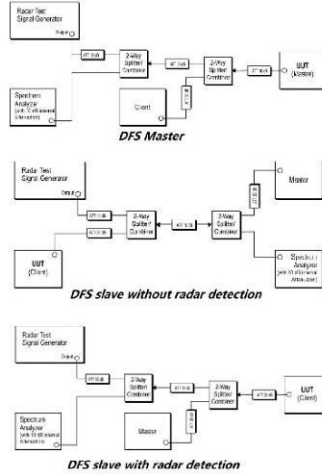


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7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Normal operating_Keep the EUT communication with the companion device.

7.13.3 Test Setup Diagram



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7.13.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

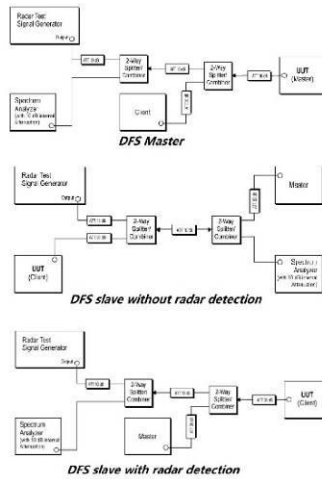
Humidity: 50.6 % RH

Atmospheric Pressure: 1020 mbar

7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Normal operating_Keep the EUT communication with the companion device.

7.14.3 Test Setup Diagram



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7.14.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2403000783AT.

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2403000783AT



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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	SISO	5180	/	/	2.065	2.082	99.18	0.04	0.07
		5200	/	/	2.065	2.082	99.18	0.04	0.00
		5240	/	/	2.065	2.082	99.18	0.04	0.04
		5260	/	/	2.065	2.082	99.18	0.04	0.07
		5300	/	/	2.065	2.082	99.18	0.04	0.04
		5320	/	/	2.066	2.084	99.14	0.04	0.07
		5500	/	/	2.066	2.083	99.18	0.04	0.04
		5580	/	/	2.066	2.083	99.18	0.04	0.04
		5700	/	/	2.066	2.084	99.14	0.04	0.07
		5745	/	/	2.066	2.082	99.23	0.03	0.04
		5785	/	/	2.066	2.083	99.18	0.04	0.00
		5825	/	/	2.066	2.083	99.18	0.04	0.04
802.11n (HT20)	MIMO	5180	/	/	1.922	1.940	99.07	0.04	0.03
		5200	/	/	1.922	1.940	99.07	0.04	0.03
		5240	/	/	1.922	1.940	99.07	0.04	0.07
		5260	/	/	1.921	1.938	99.12	0.04	0.03
		5300	/	/	1.921	1.938	99.12	0.04	0.03
		5320	/	/	1.921	1.939	99.07	0.04	0.00
		5500	/	/	1.922	1.939	99.12	0.04	0.03
		5580	/	/	1.921	1.938	99.12	0.04	0.03
		5700	/	/	1.922	1.939	99.12	0.04	0.03
		5745	/	/	1.922	1.939	99.12	0.04	0.03
		5785	/	/	1.922	1.939	99.12	0.04	0.03
		5825	/	/	1.921	1.938	99.12	0.04	0.03
802.11n (HT40)	MIMO	5190	/	/	1.538	1.556	98.84	0.05	0.07
		5230	/	/	1.538	1.555	98.91	0.05	0.07
		5270	/	/	1.538	1.556	98.84	0.05	0.07
		5310	/	/	1.538	1.556	98.84	0.05	0.07



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		5510	/	/	1.538	1.555	98.91	0.05	0.03
		5550	/	/	1.538	1.555	98.91	0.05	0.03
		5670	/	/	1.538	1.555	98.91	0.05	0.03
		5755	/	/	1.538	1.555	98.91	0.05	0.03
		5795	/	/	1.538	1.556	98.84	0.05	0.07
802.11ac (VHT20)	MIMO	5180	/	/	1.933	1.950	99.13	0.04	0.03
		5200	/	/	1.933	1.950	99.13	0.04	0.03
		5240	/	/	1.934	1.951	99.13	0.04	0.03
		5260	/	/	1.934	1.951	99.13	0.04	0.03
		5300	/	/	1.933	1.951	99.08	0.04	0.07
		5320	/	/	1.933	1.951	99.08	0.04	0.07
		5500	/	/	1.933	1.950	99.13	0.04	0.03
		5580	/	/	1.934	1.952	99.08	0.04	0.03
		5700	/	/	1.933	1.951	99.08	0.04	0.03
		5745	/	/	1.934	1.951	99.13	0.04	0.03
		5785	/	/	1.934	1.952	99.08	0.04	0.07
		5825	/	/	1.934	1.951	99.13	0.04	0.03
802.11ac (VHT40)	MIMO	5190	/	/	1.545	1.563	98.85	0.05	0.03
		5230	/	/	1.546	1.564	98.85	0.05	0.07
		5270	/	/	1.546	1.564	98.85	0.05	0.07
		5310	/	/	1.544	1.563	98.78	0.05	0.03
		5510	/	/	1.546	1.563	98.91	0.05	0.03
		5550	/	/	1.546	1.563	98.91	0.05	0.03
		5670	/	/	1.546	1.563	98.91	0.05	0.03
		5755	/	/	1.546	1.563	98.91	0.05	0.03
		5795	/	/	1.546	1.563	98.91	0.05	0.07
802.11ac (VHT80)	MIMO	5210	/	/	2.243	2.260	99.25	0.03	0.04
		5290	/	/	2.242	2.260	99.20	0.03	0.04
		5530	/	/	2.242	2.260	99.20	0.03	0.04
		5610	/	/	2.242	2.260	99.20	0.03	0.07
		5775	/	/	2.240	2.260	99.12	0.04	0.04
802.11ax (HEW20)	MIMO	5180	RU242	Left	1.488	1.506	98.80	0.05	0.03
		5200	RU242	Left	1.489	1.507	98.81	0.05	0.03
		5240	RU242	Left	1.489	1.506	98.87	0.05	0.07
		5260	RU242	Left	1.488	1.506	98.80	0.05	0.03
		5300	RU242	Left	1.489	1.507	98.81	0.05	0.07
		5320	RU242	Left	1.488	1.506	98.80	0.05	0.03
		5500	RU242	Left	1.489	1.506	98.87	0.05	0.00
		5580	RU242	Left	1.489	1.507	98.81	0.05	0.07
		5700	RU242	Left	1.489	1.506	98.87	0.05	0.03



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Report No.: SZCR240300078305

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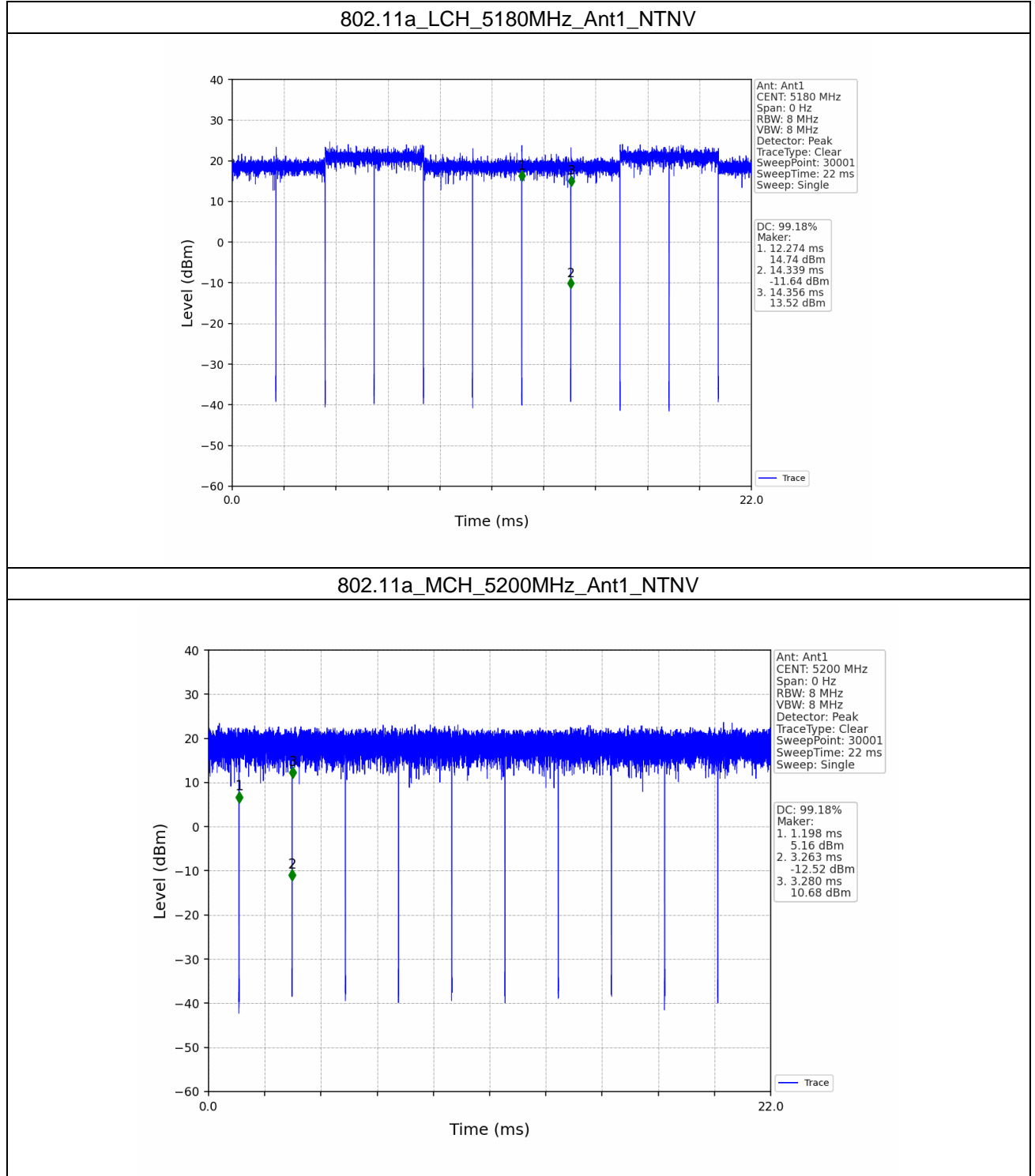
		5745	RU242	Left	1.490	1.507	98.87	0.05	0.03
		5785	RU242	Left	1.489	1.506	98.87	0.05	0.03
		5825	RU242	Left	1.489	1.506	98.87	0.05	0.00
802.11ax (HEW40)	MIMO	5190	RU484	Left	1.240	1.267	97.87	0.09	0.03
		5230	RU484	Left	1.241	1.268	97.87	0.09	0.03
		5270	RU484	Left	1.241	1.268	97.87	0.09	0.03
		5310	RU484	Left	1.241	1.268	97.87	0.09	0.03
		5510	RU484	Left	1.241	1.268	97.87	0.09	0.03
		5550	RU484	Left	1.241	1.268	97.87	0.09	0.03
		5670	RU484	Left	1.241	1.268	97.87	0.09	0.03
		5755	RU484	Left	1.240	1.268	97.79	0.10	0.03
		5795	RU484	Left	1.241	1.267	97.95	0.09	0.00
		802.11ax (HEW80)	MIMO	5210	RU996	Left	1.844	1.862	99.03
5290	RU996			Left	1.844	1.862	99.03	0.04	0.03
5530	RU996			Left	1.842	1.862	98.93	0.05	0.00
5610	RU996			Left	1.842	1.862	98.93	0.05	0.03
5775	RU996			Left	1.845	1.862	99.09	0.04	0.03



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1.1.2 Test Graph

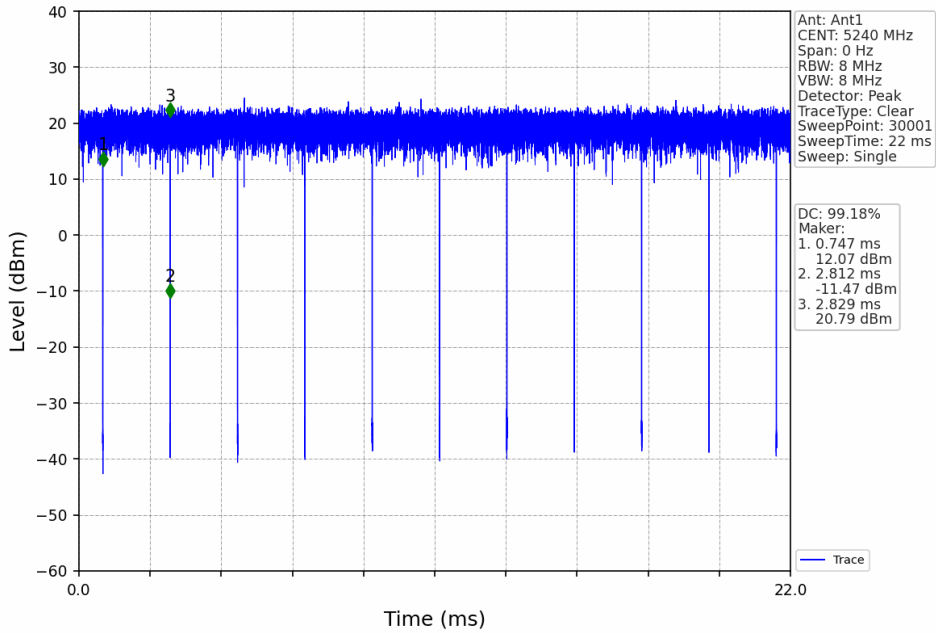


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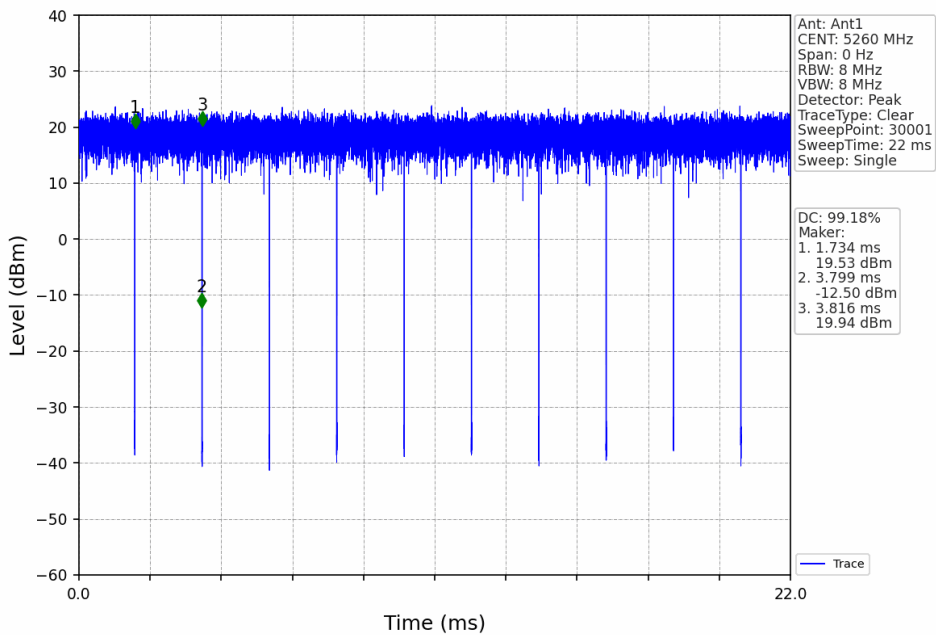
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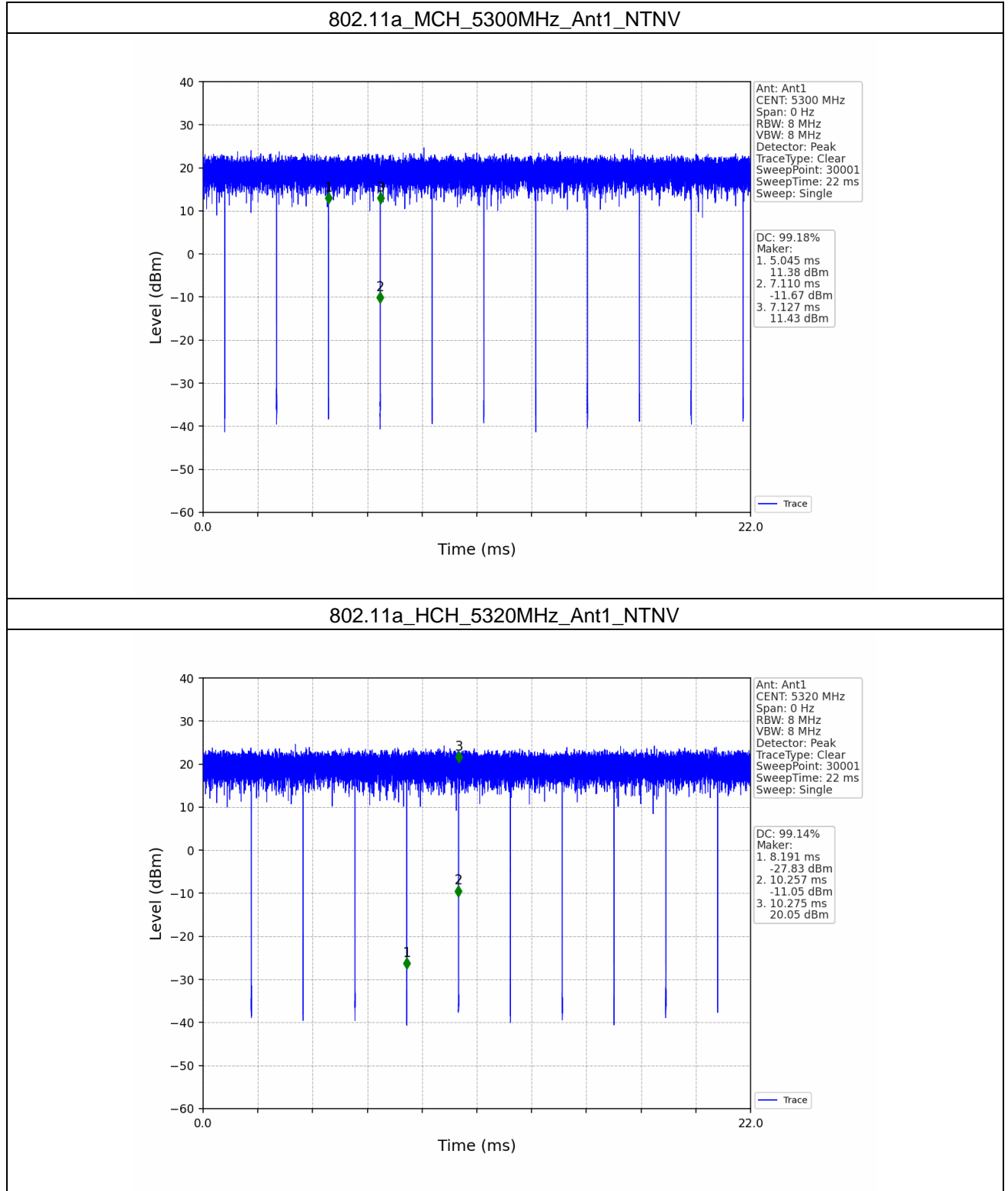
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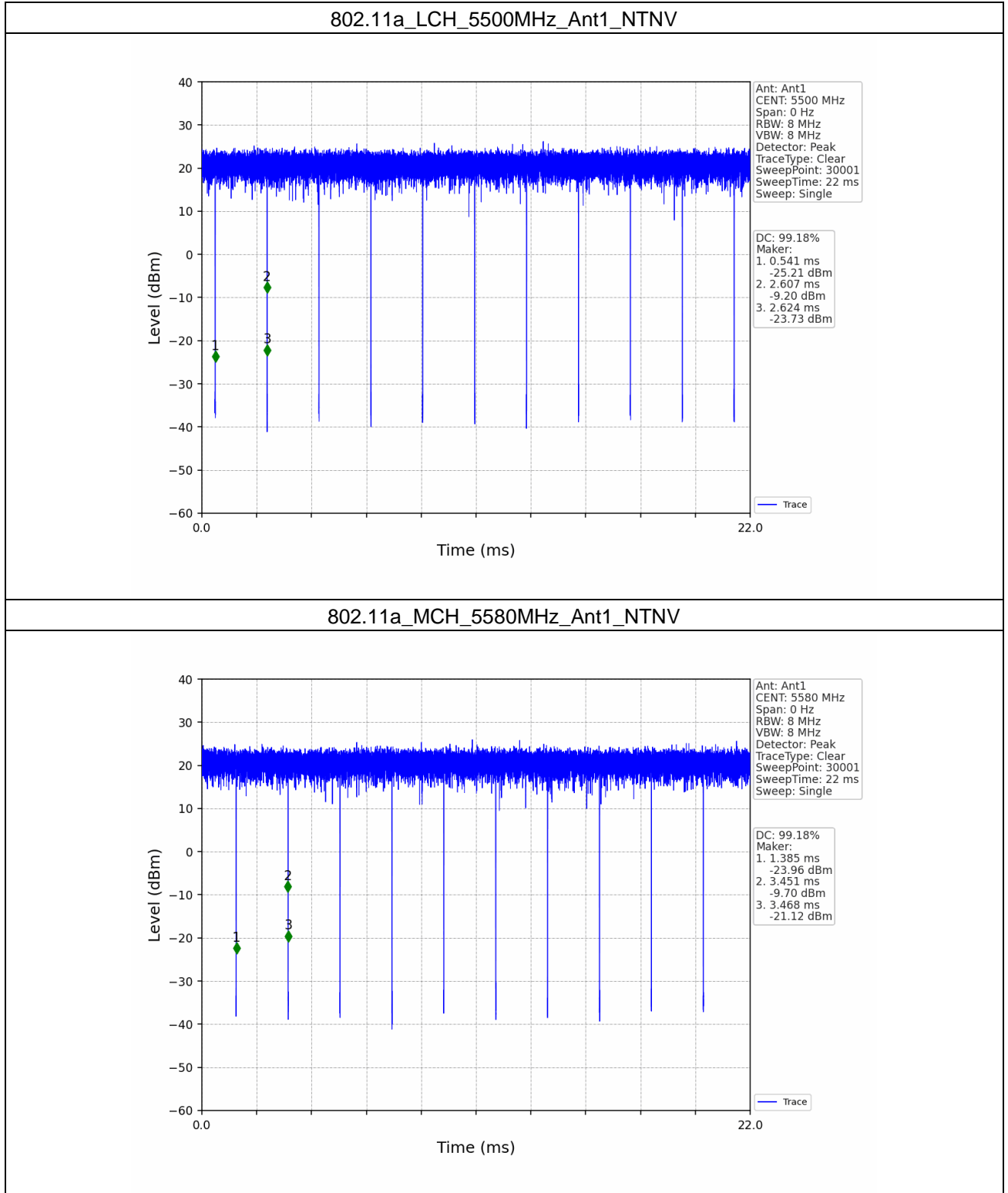
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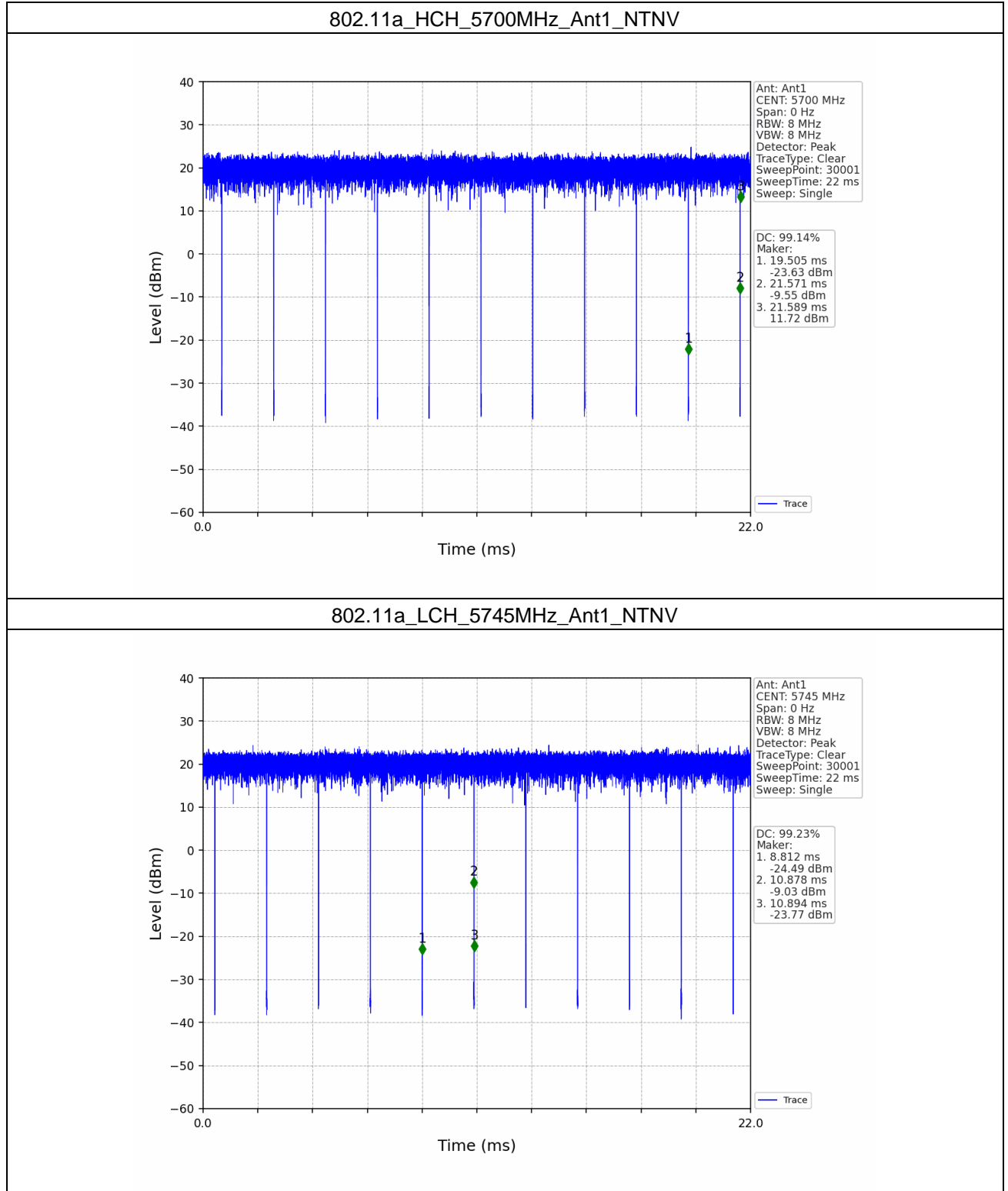
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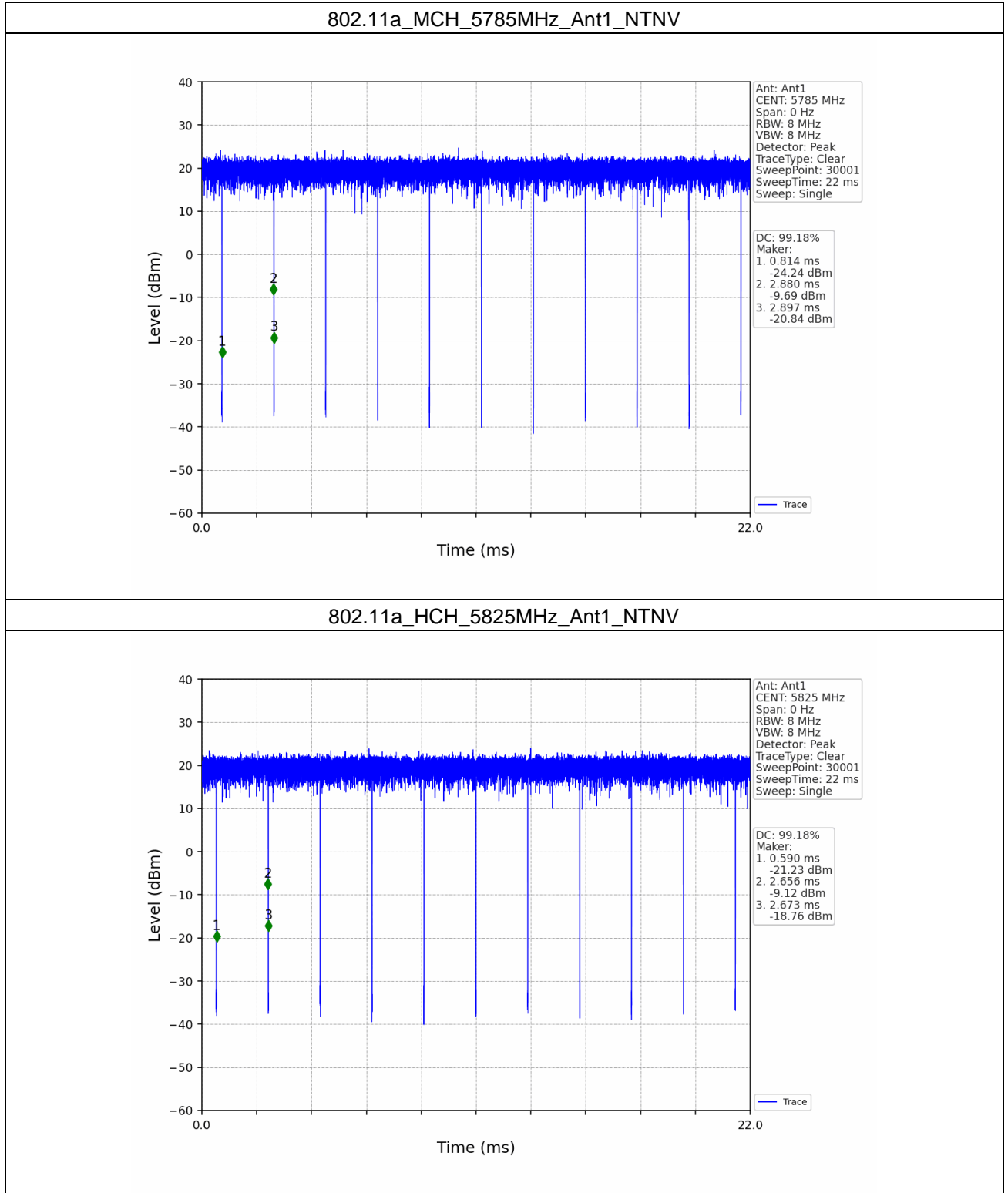
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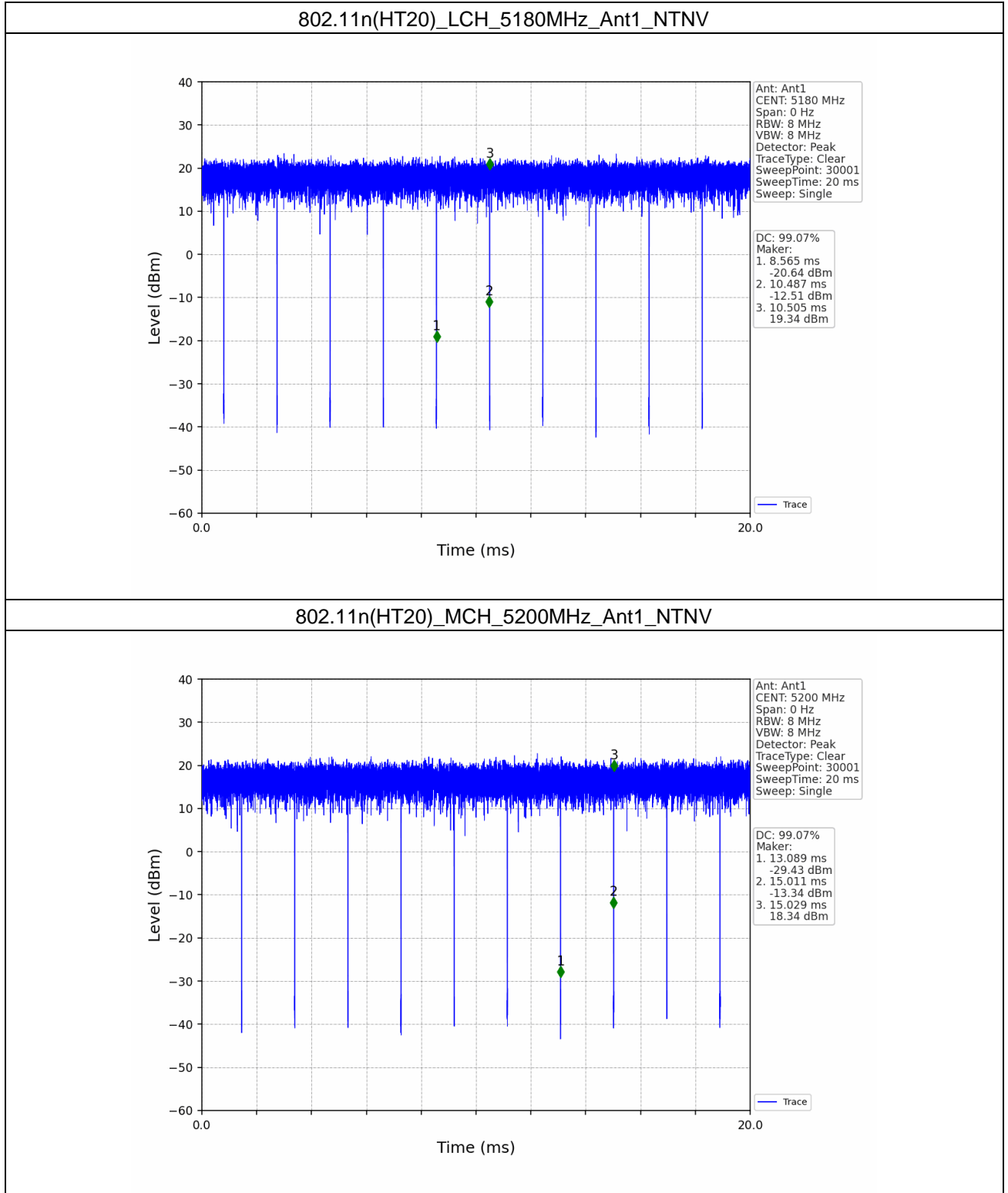
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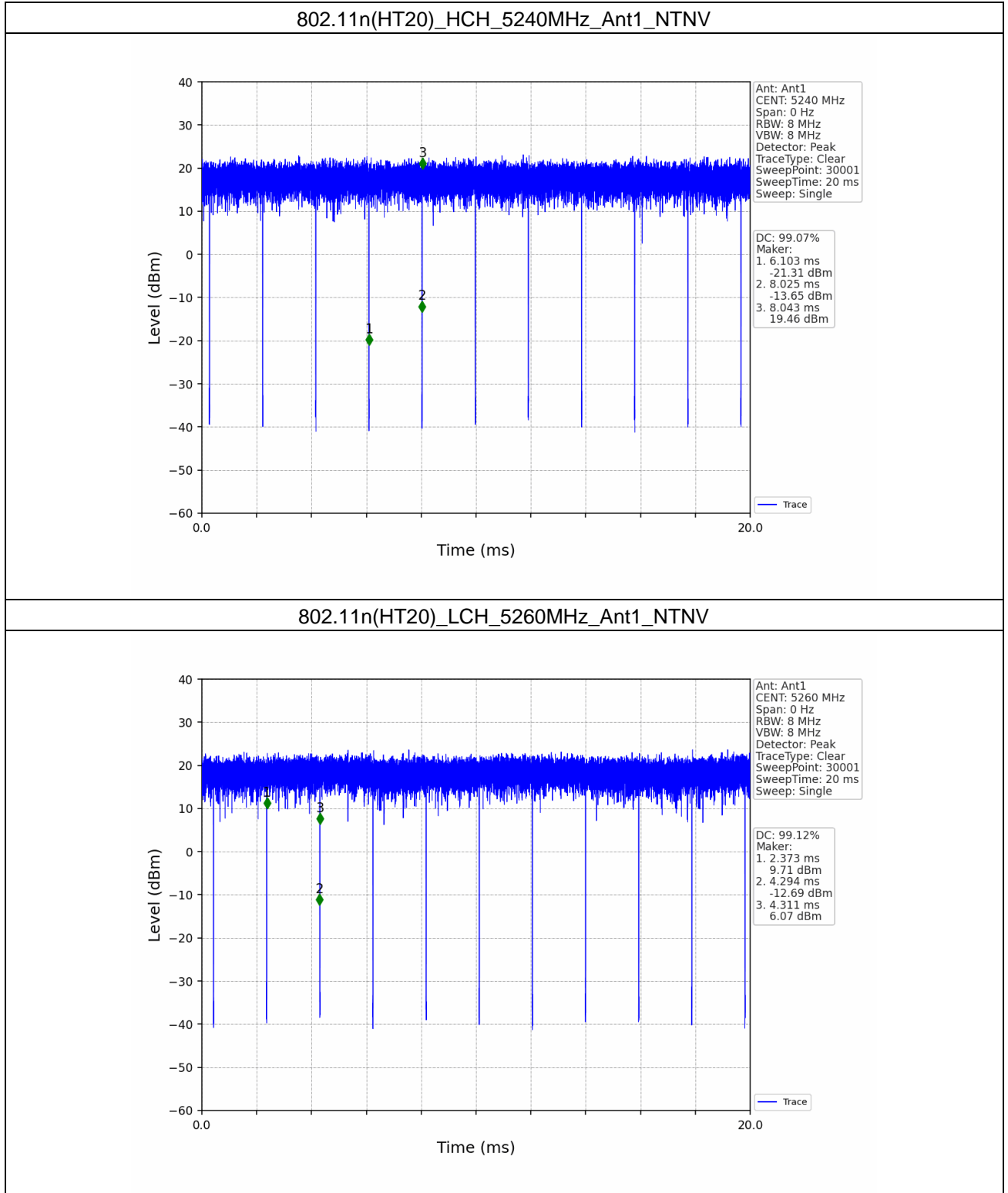
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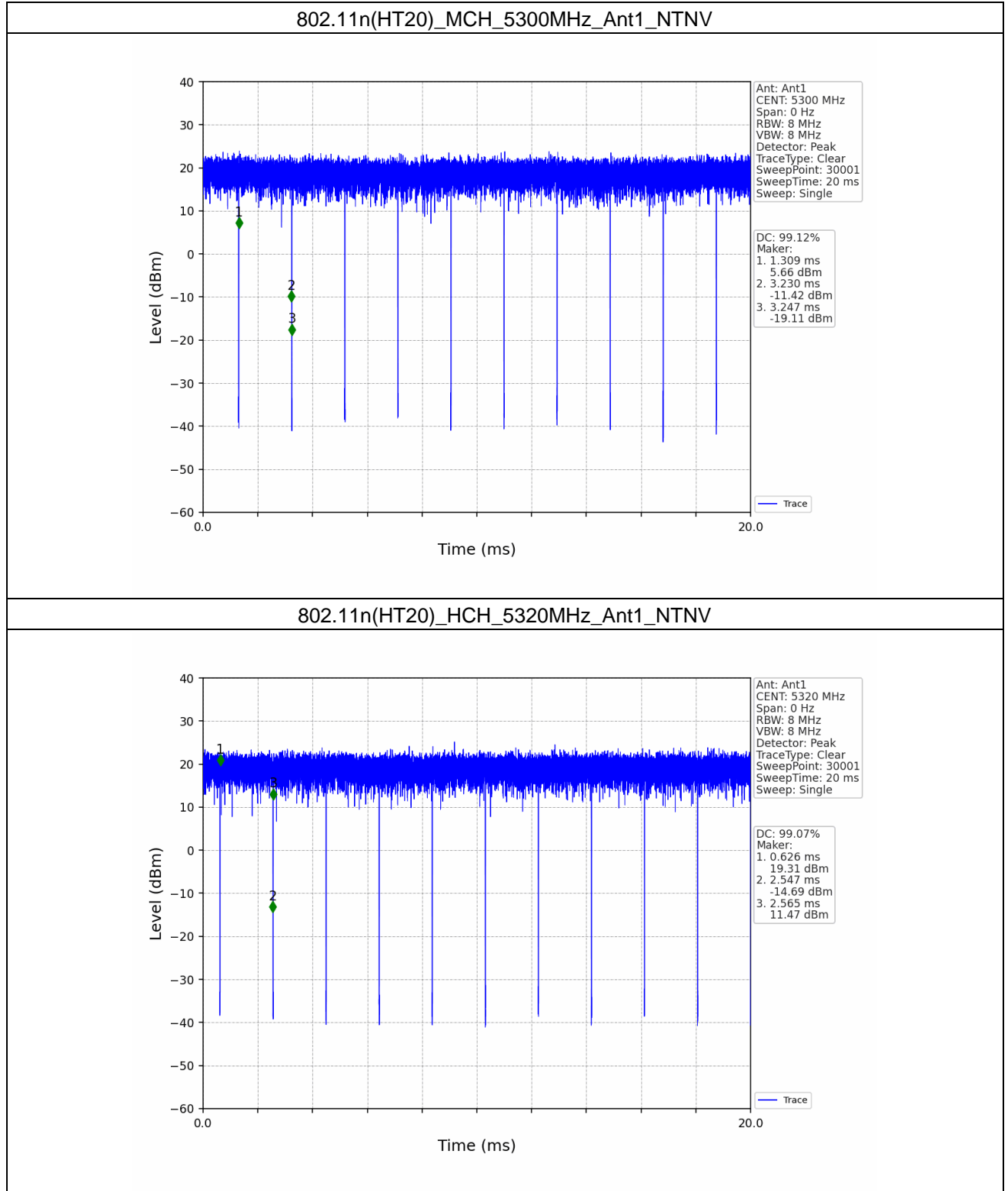
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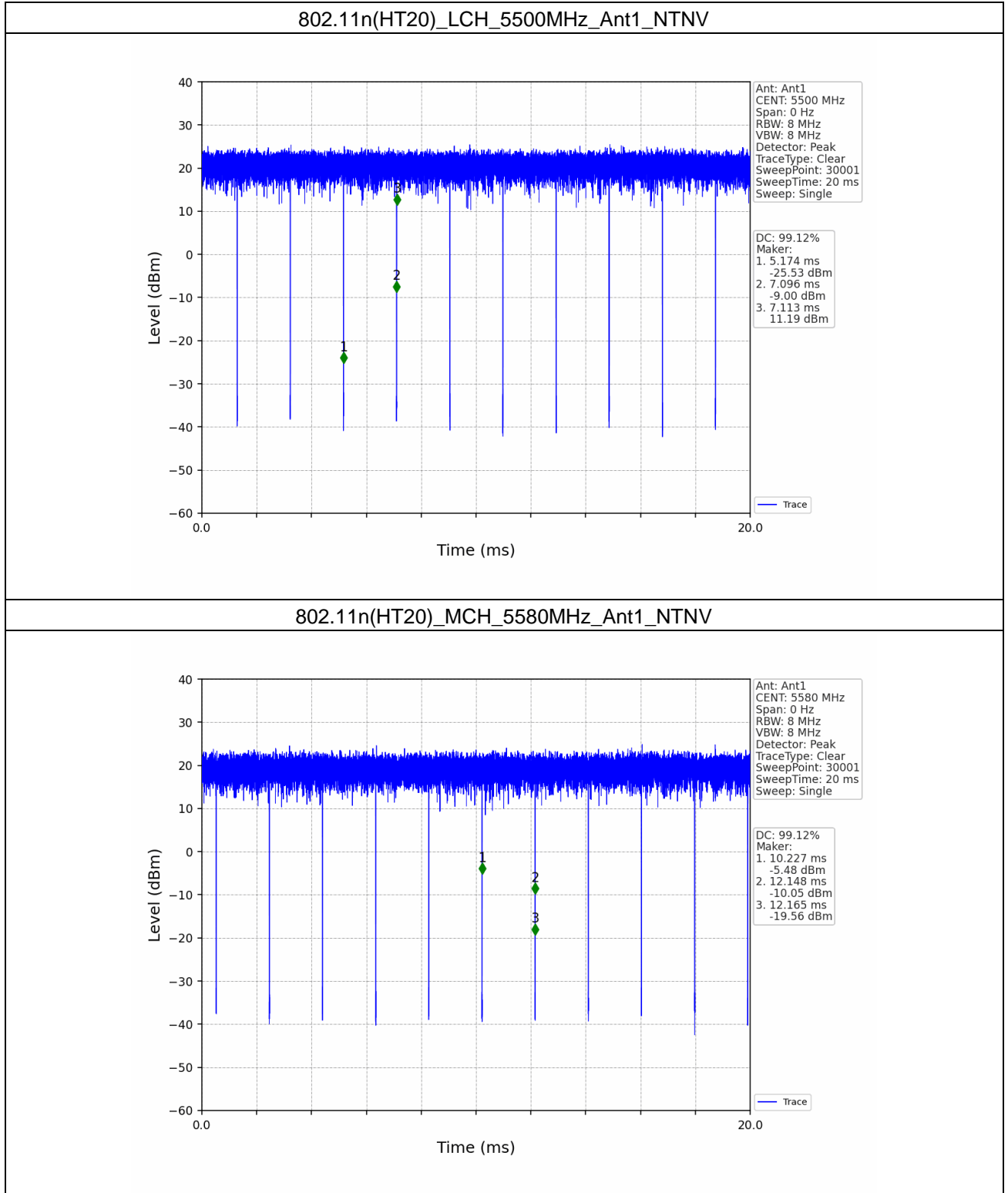
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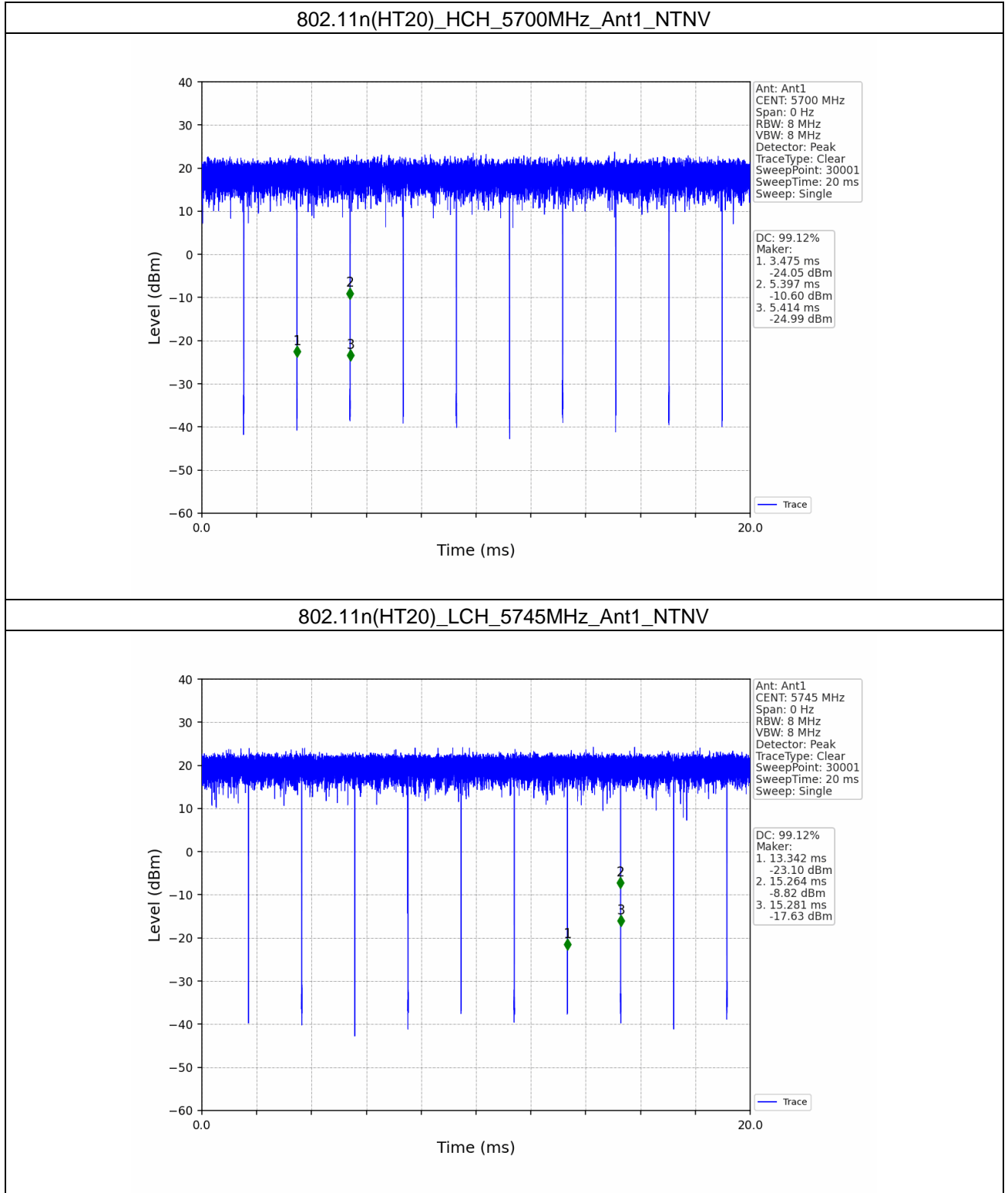
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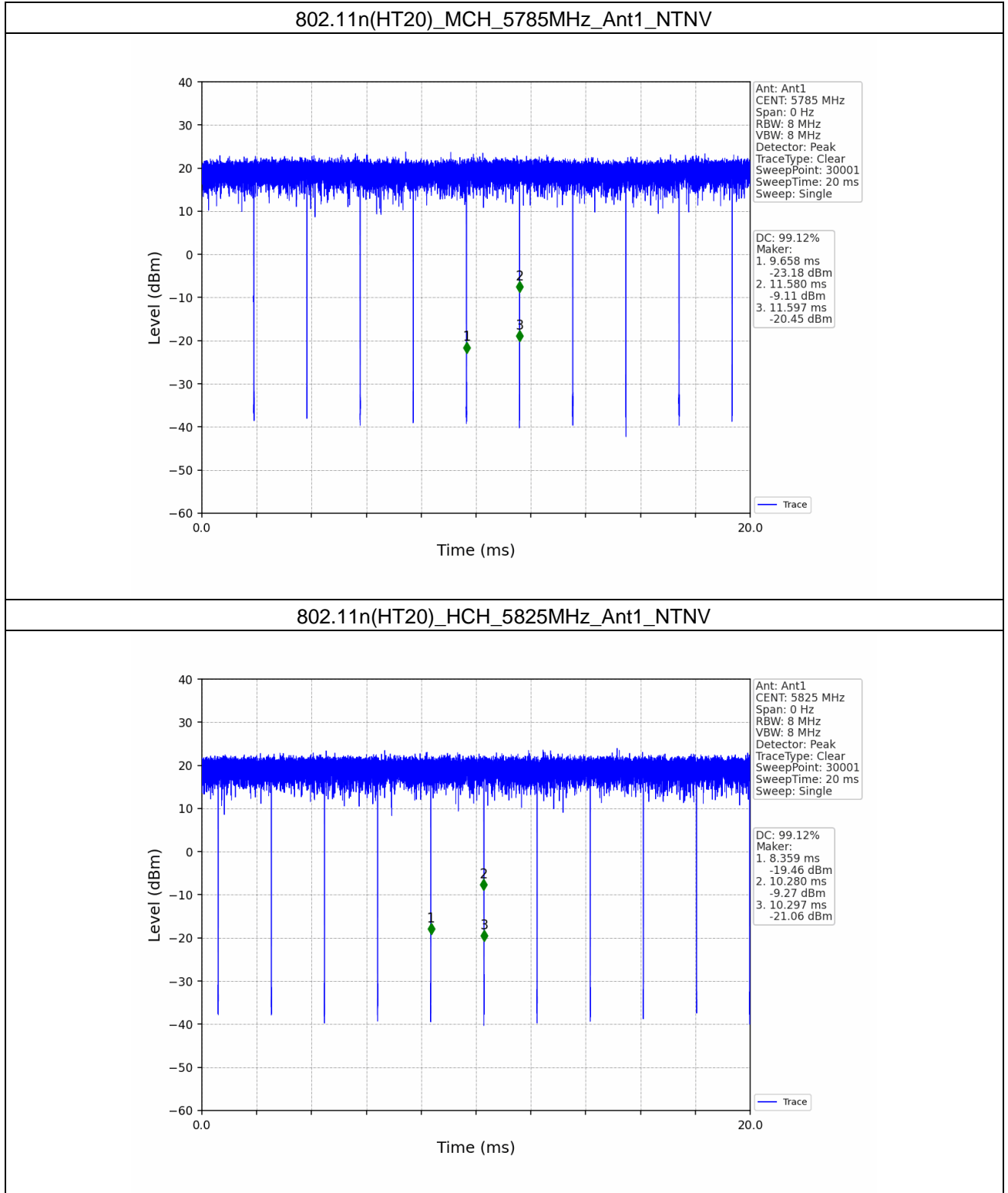
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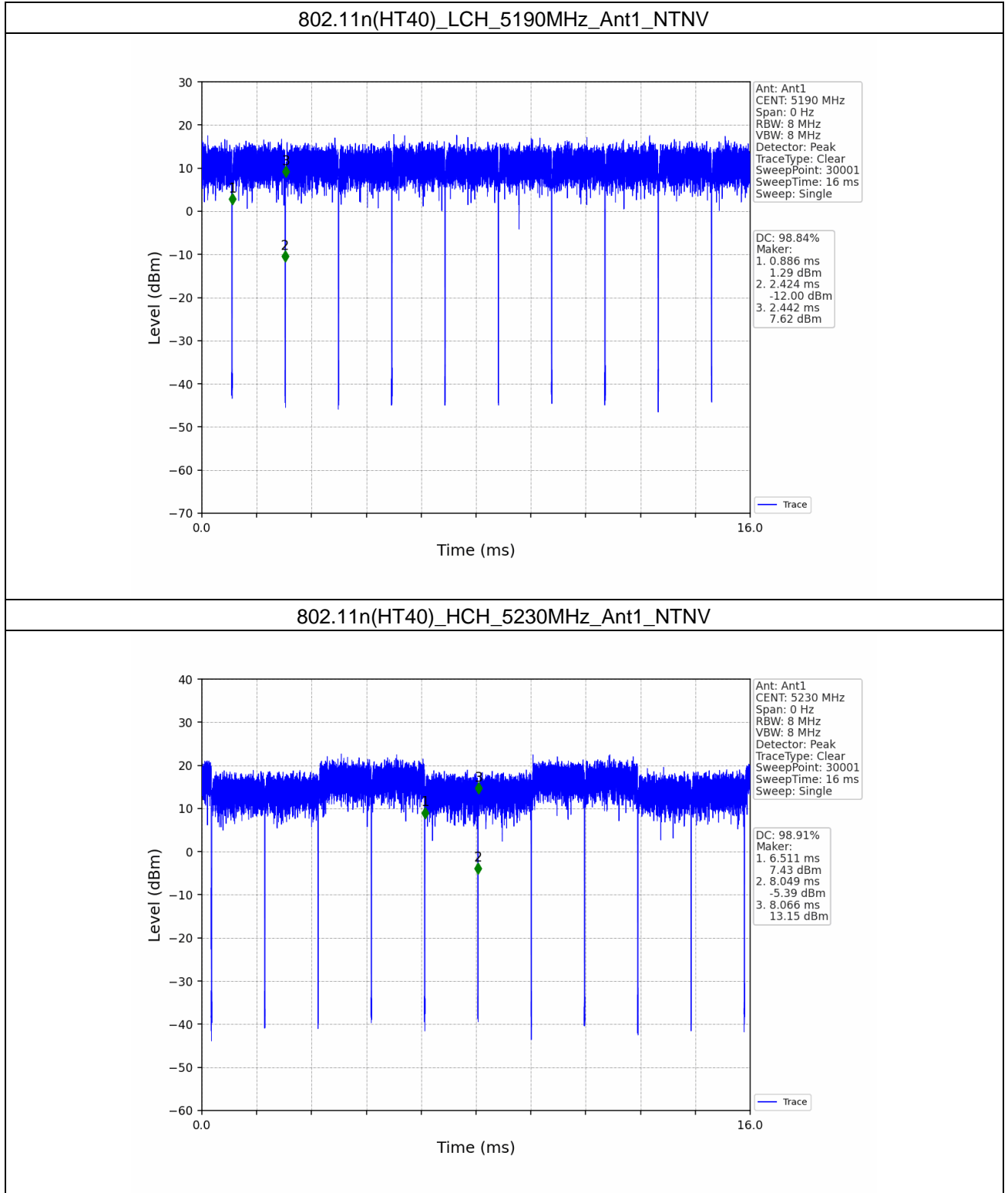
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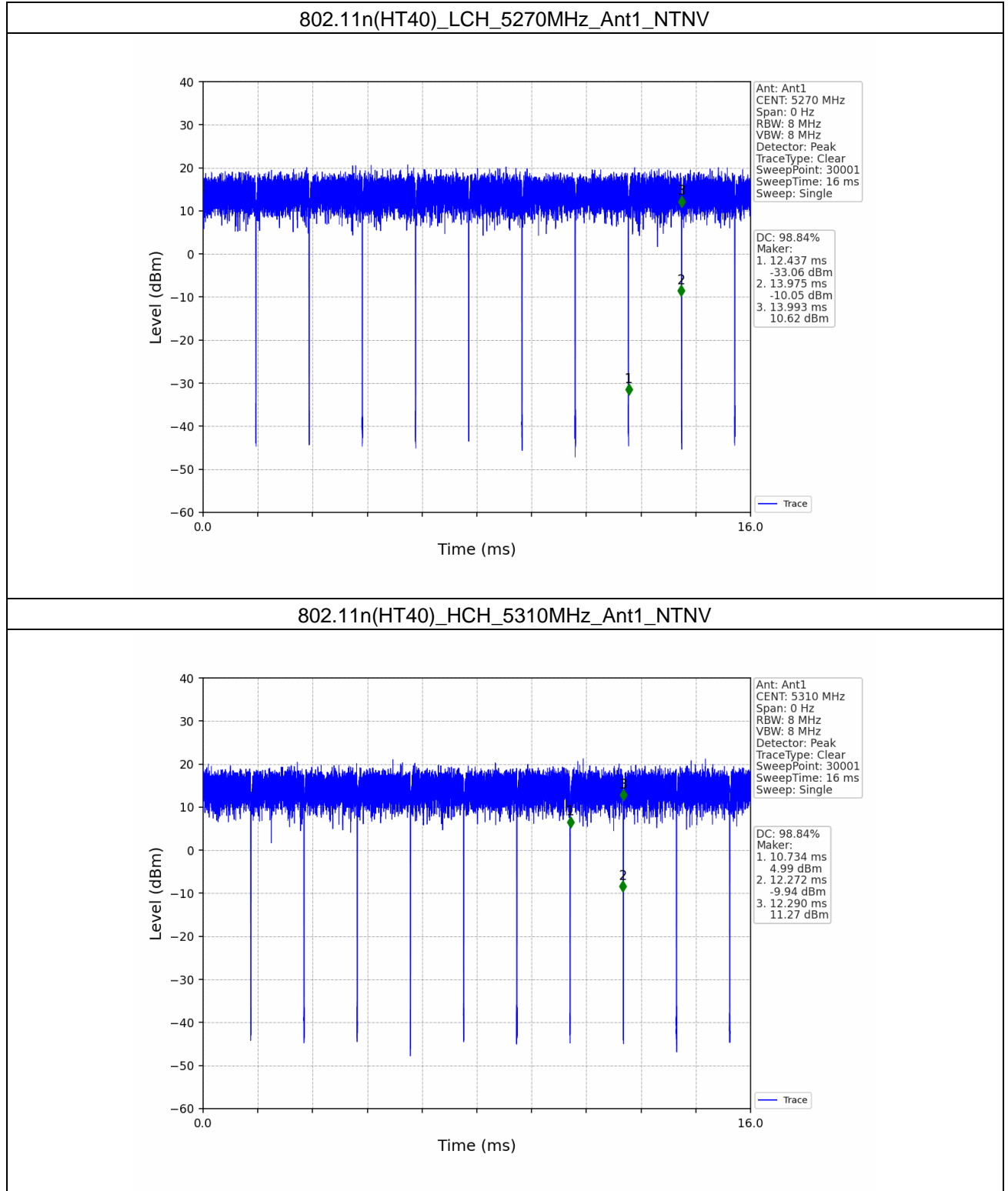
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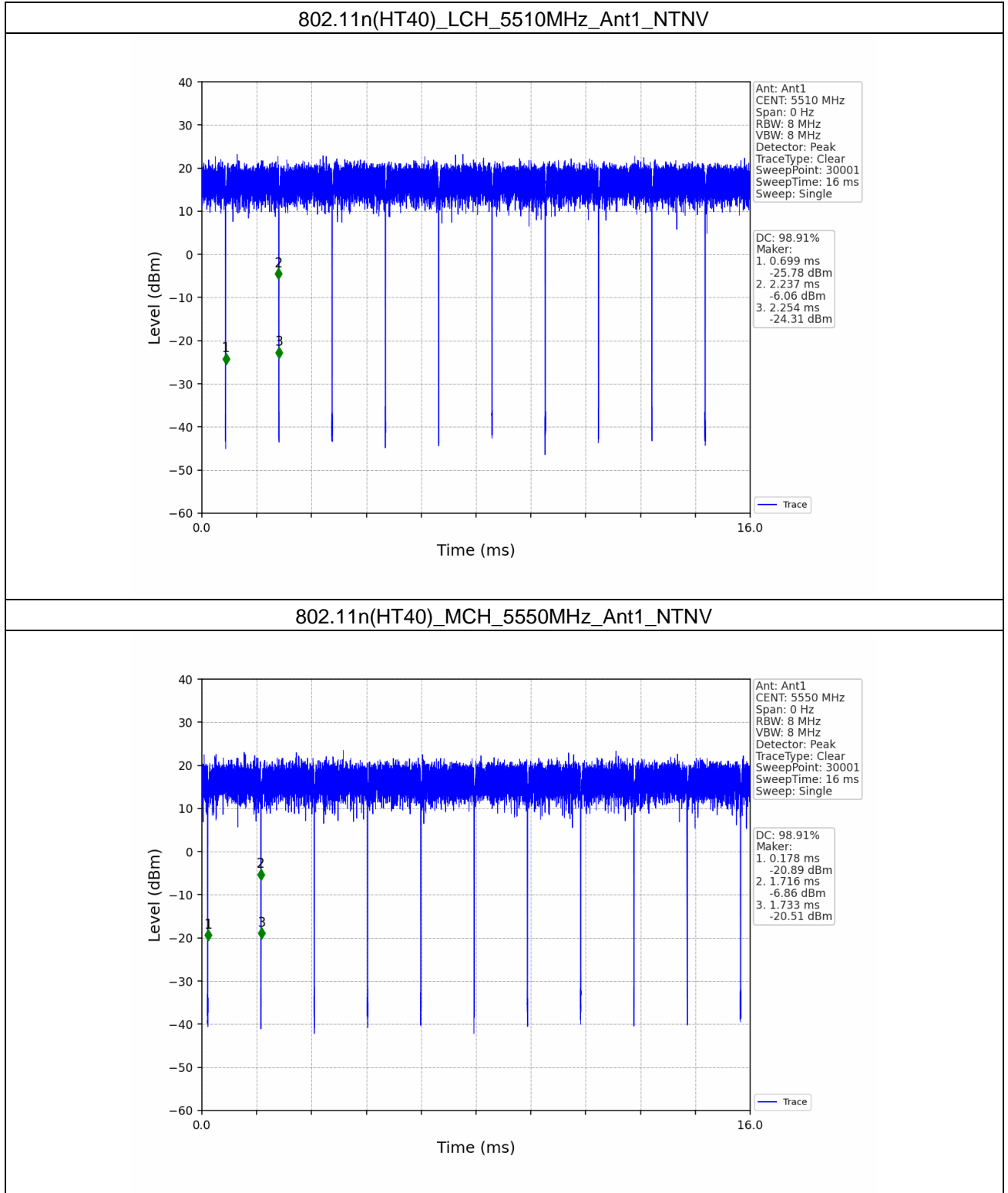
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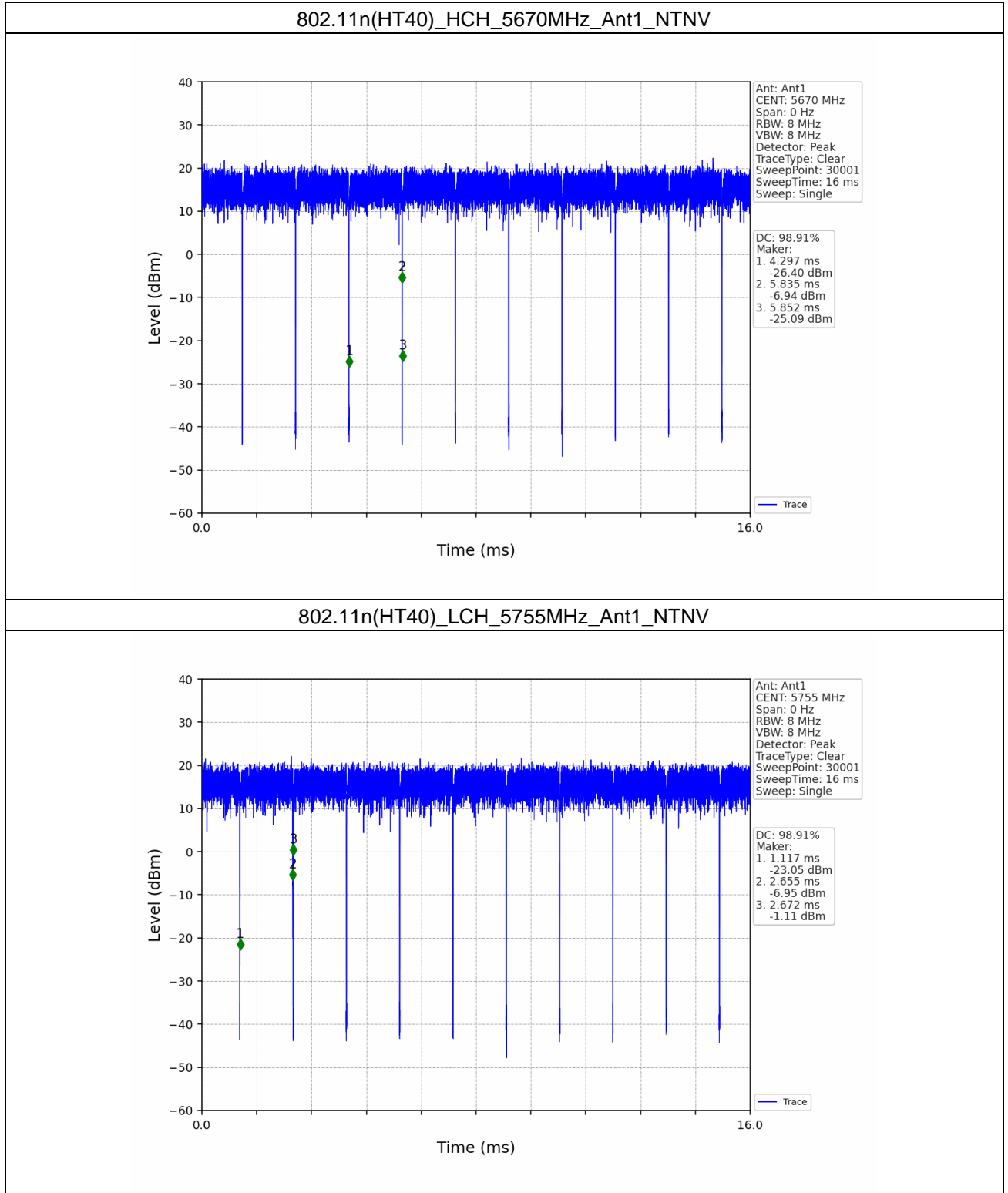
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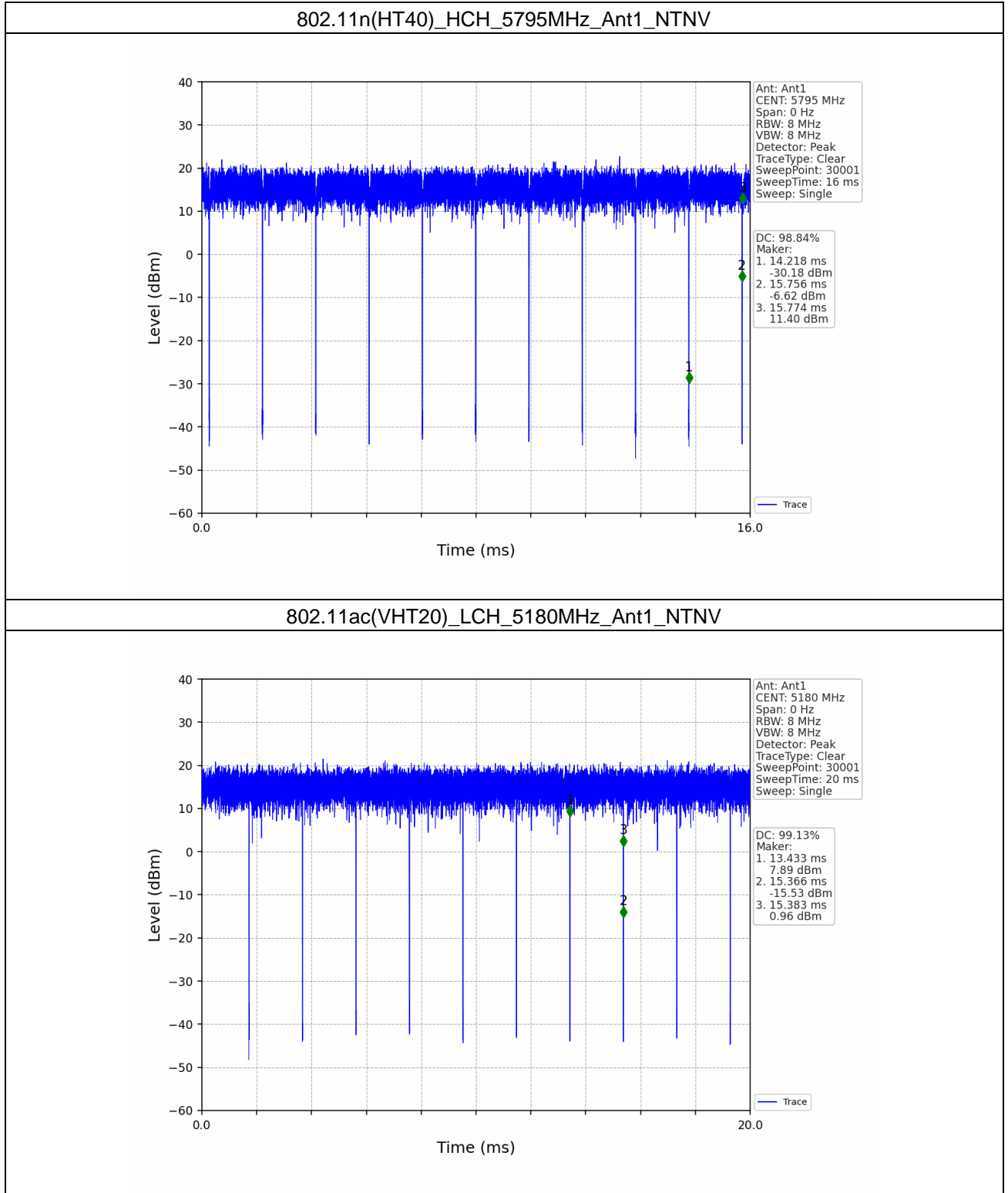
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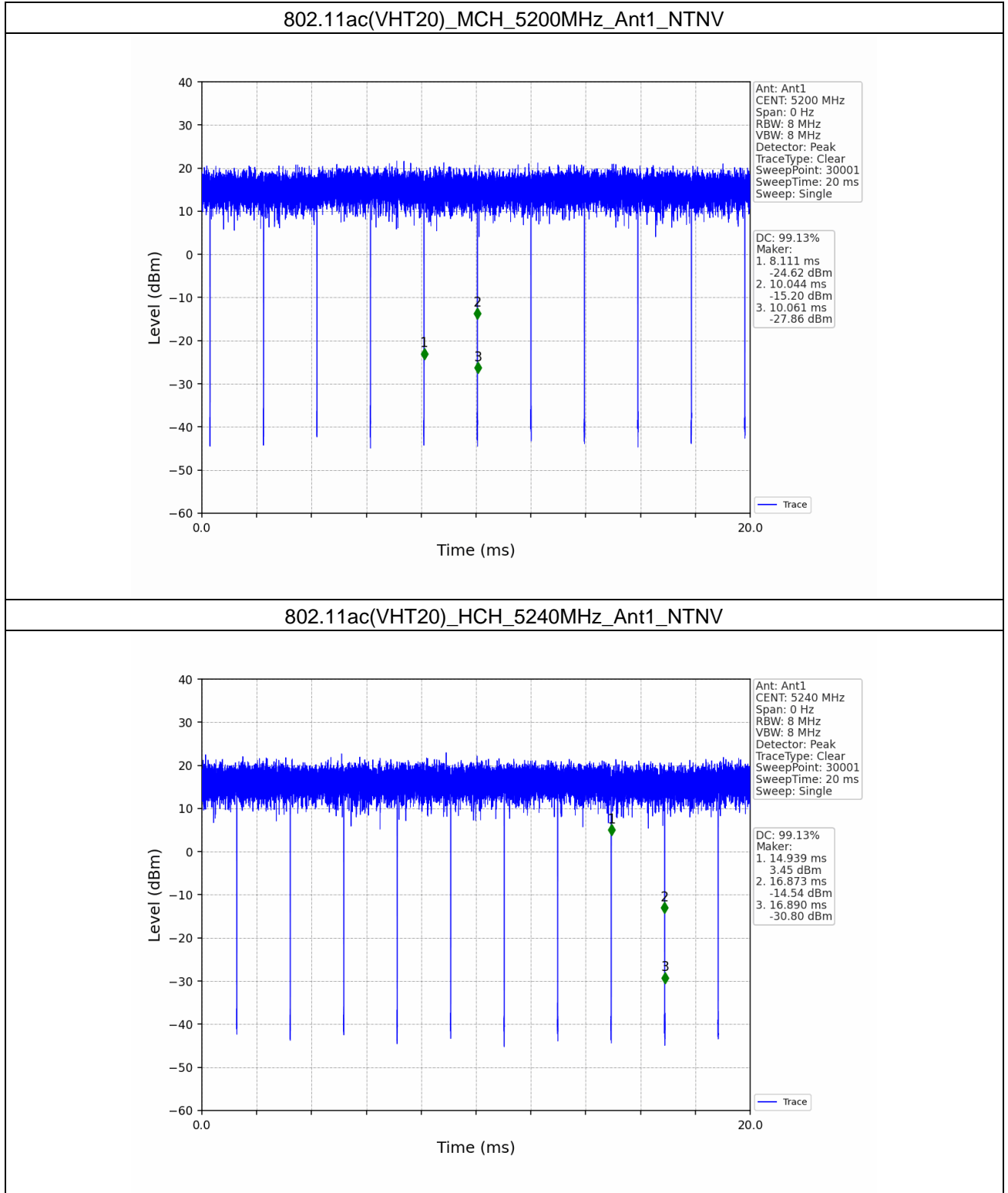
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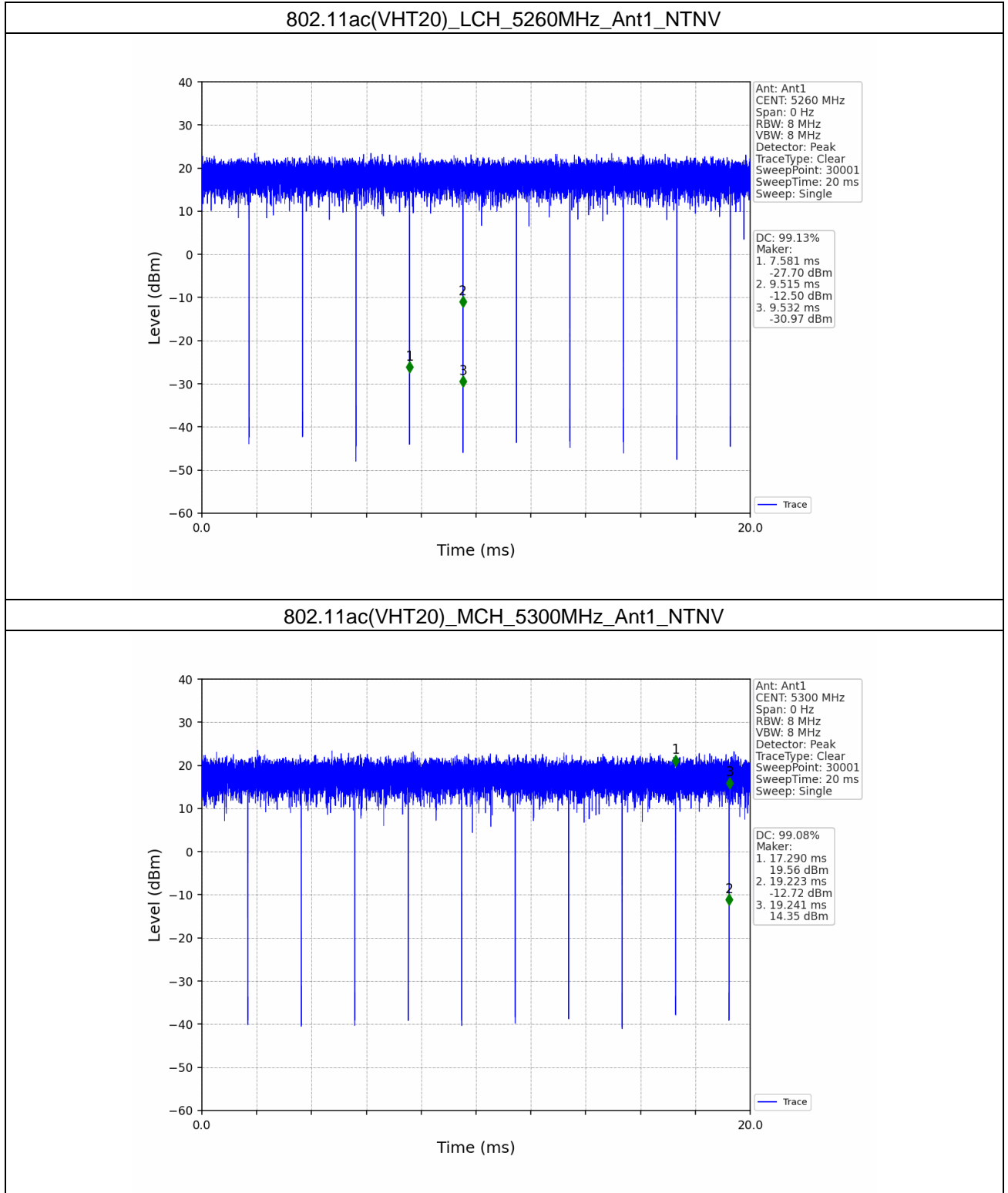
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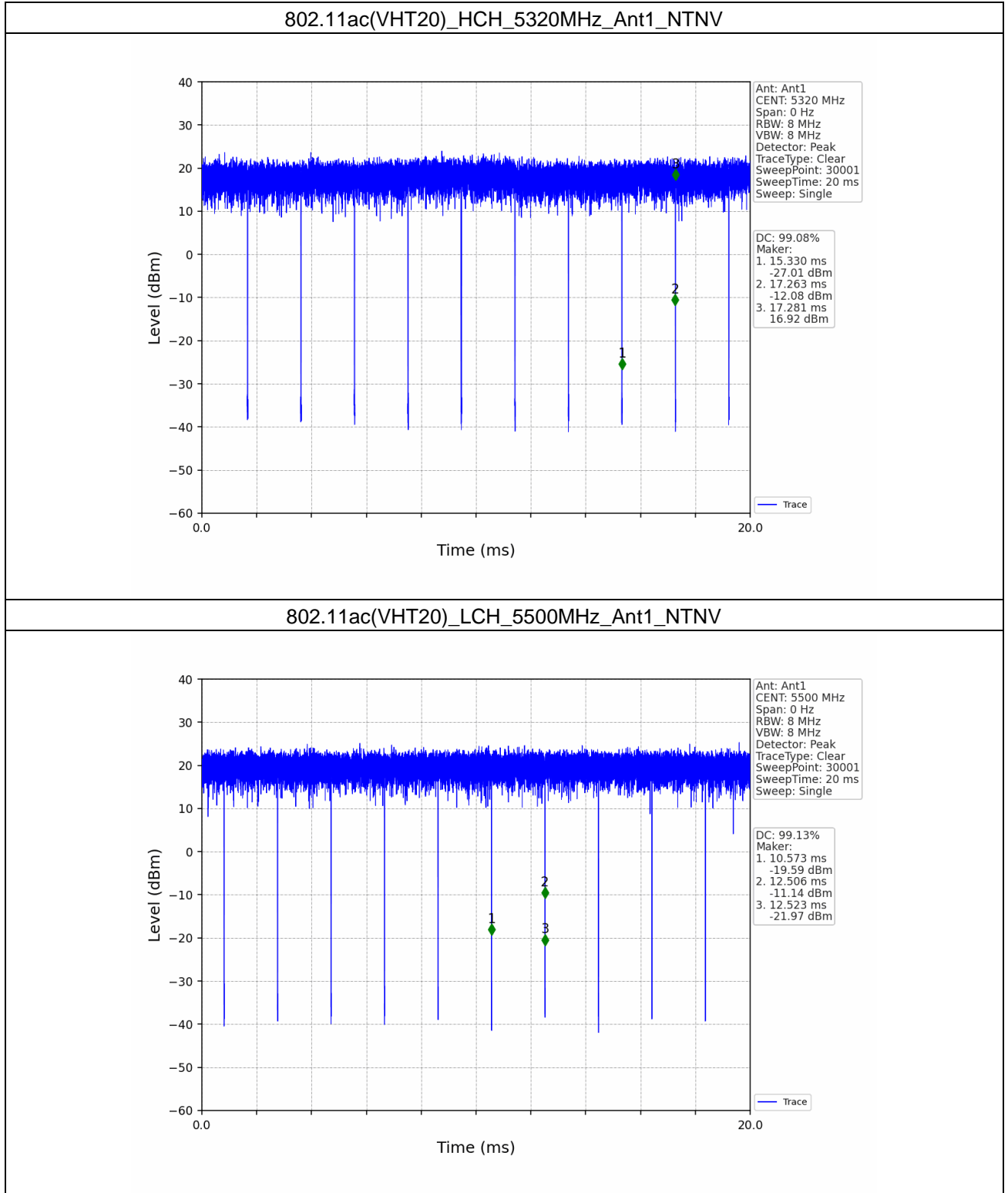
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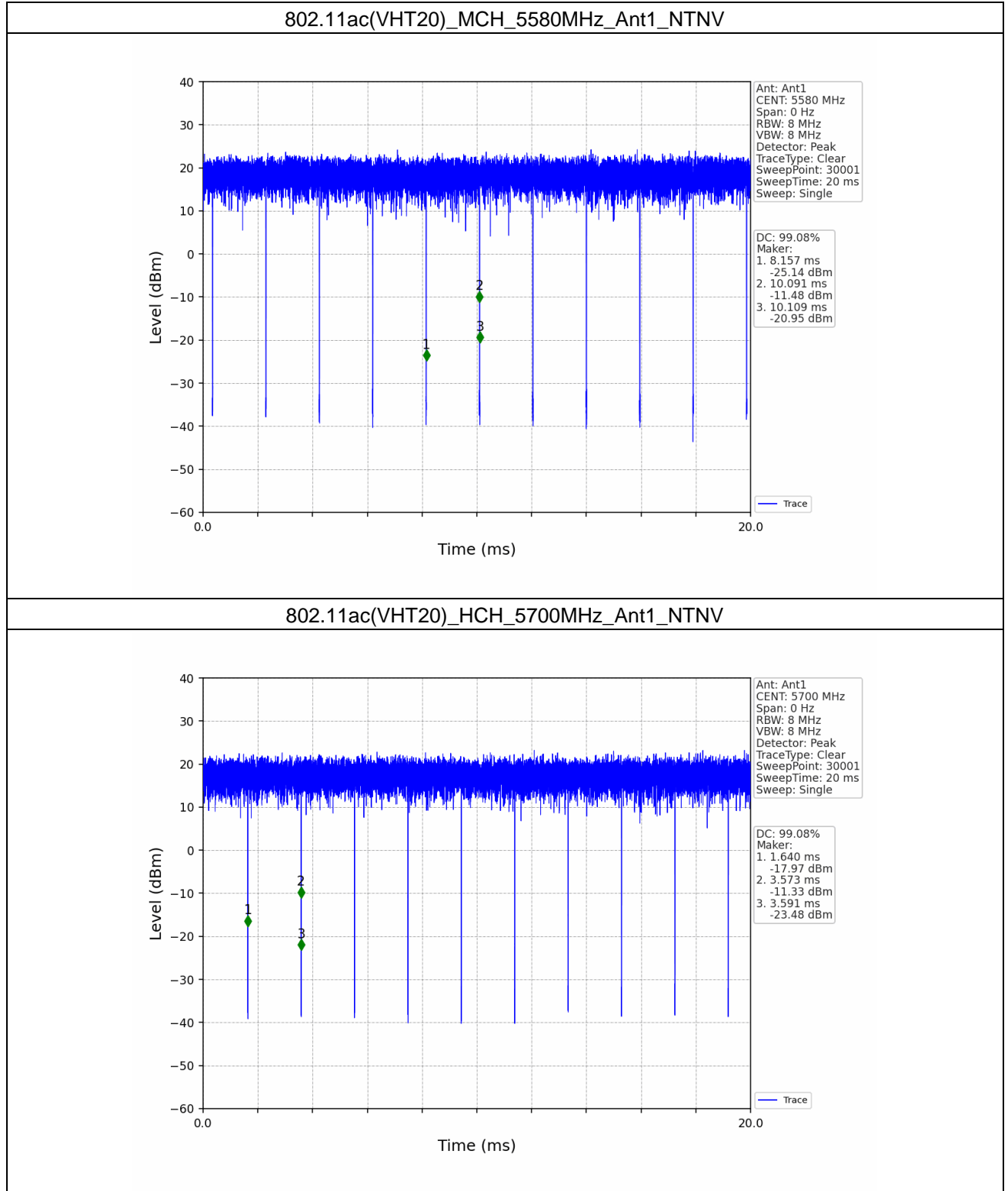


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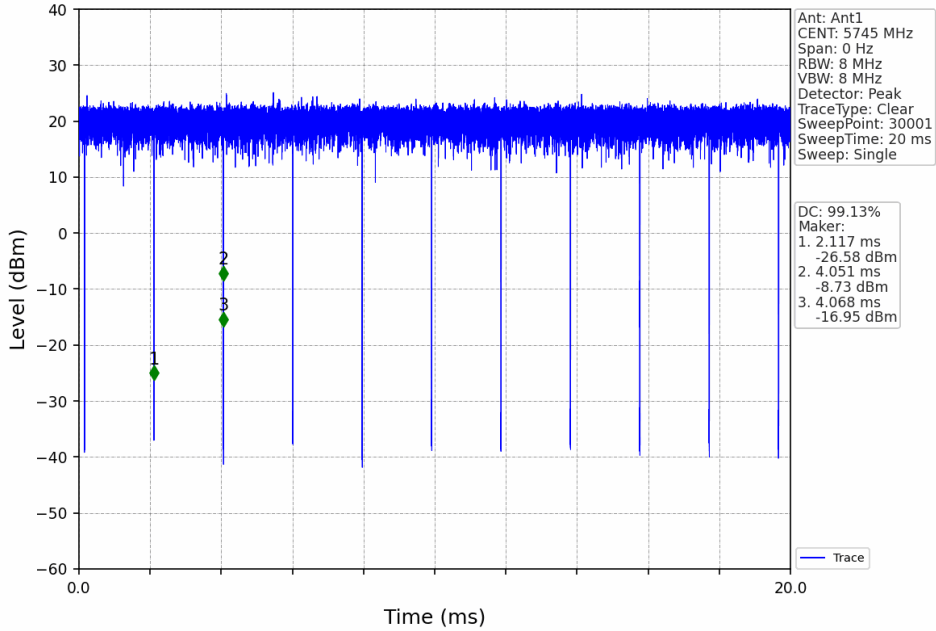
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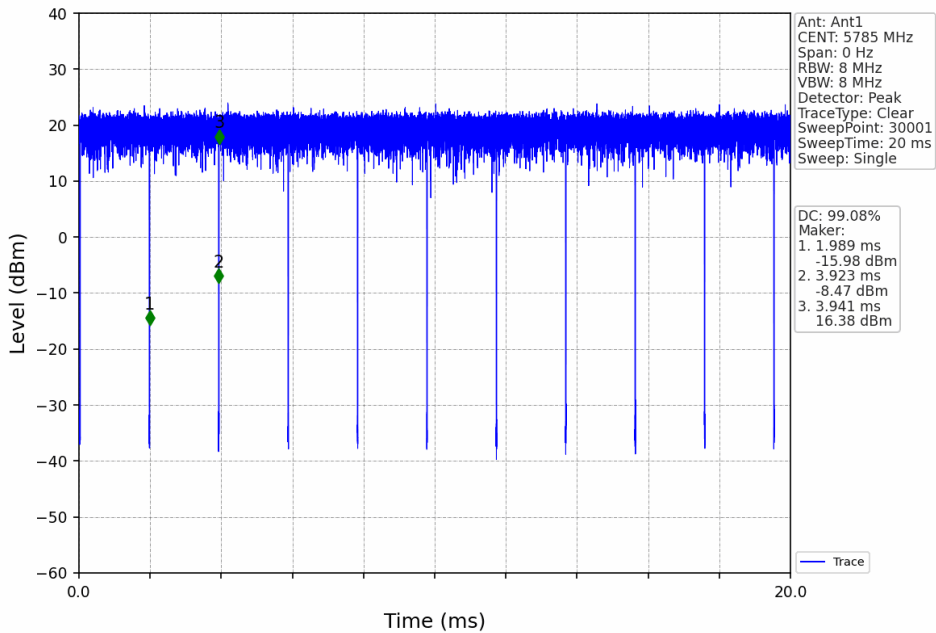


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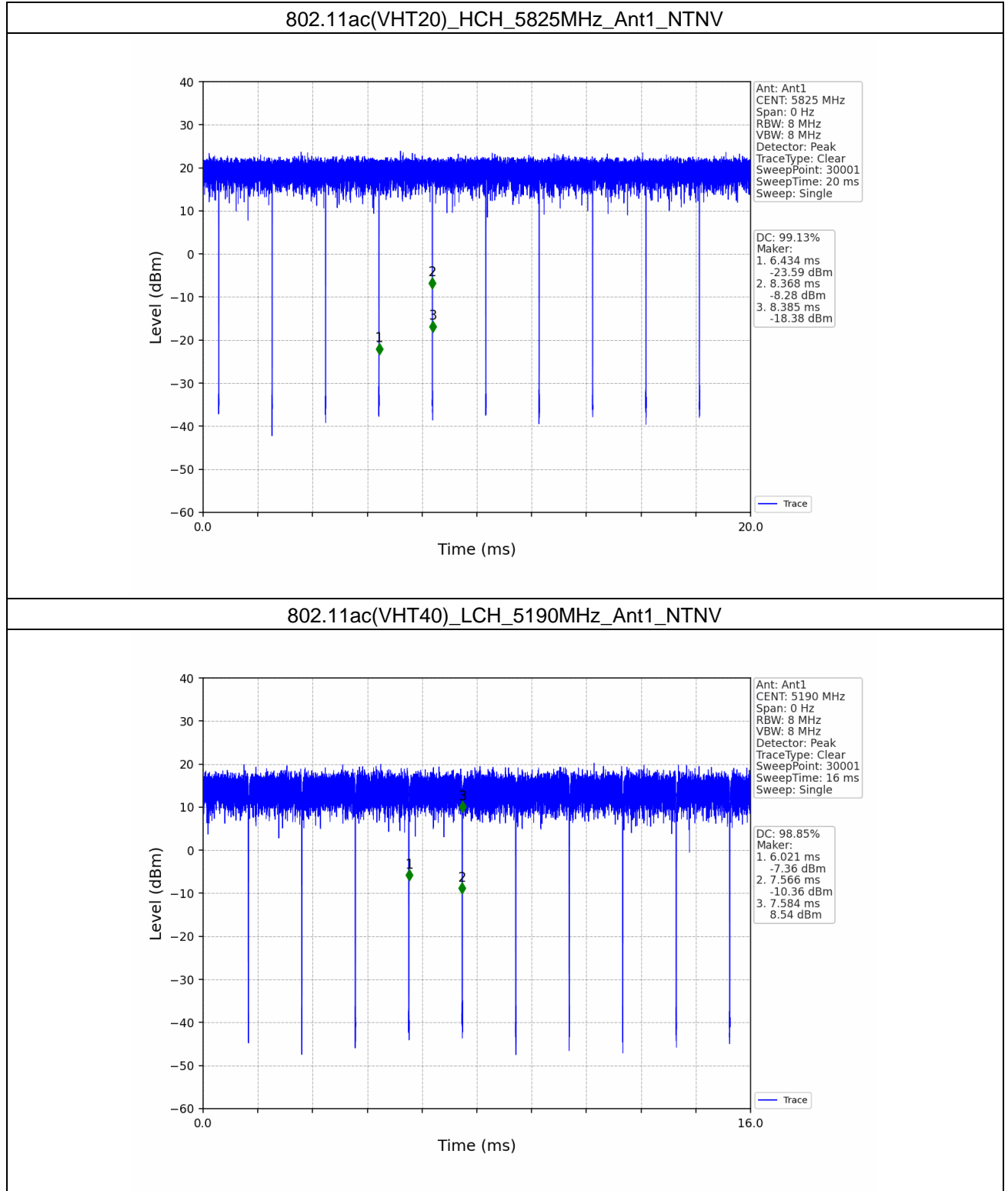
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



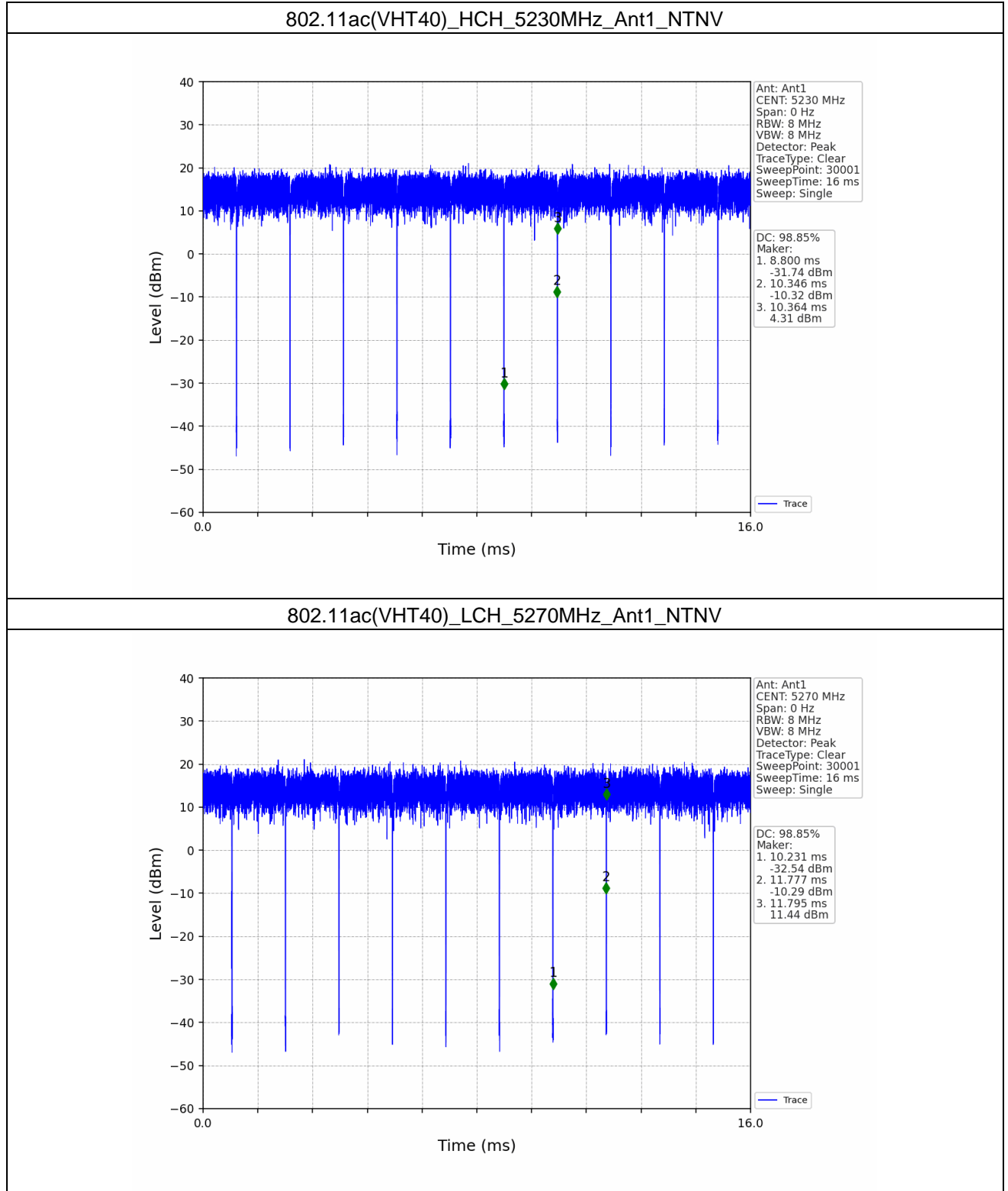
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



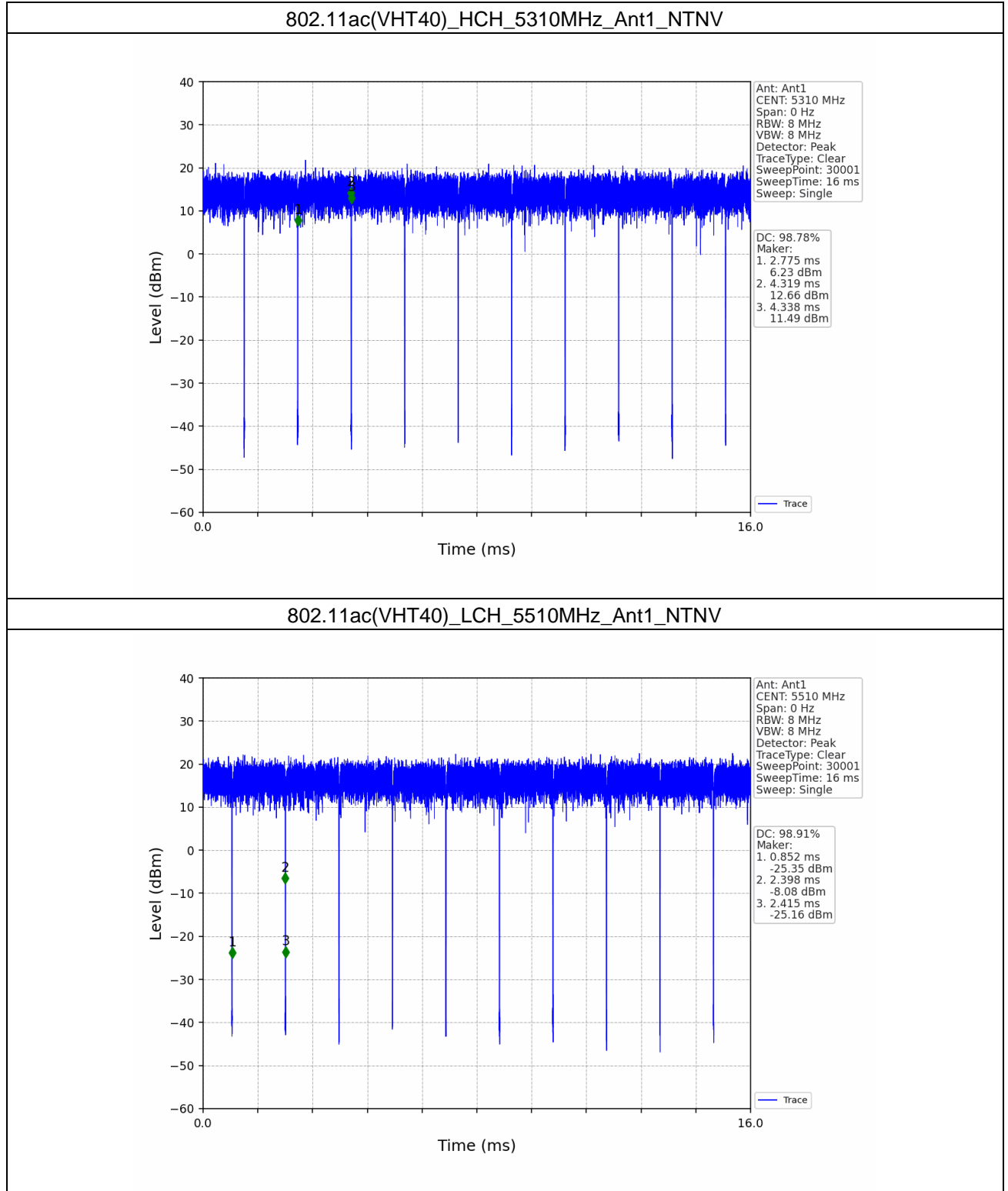
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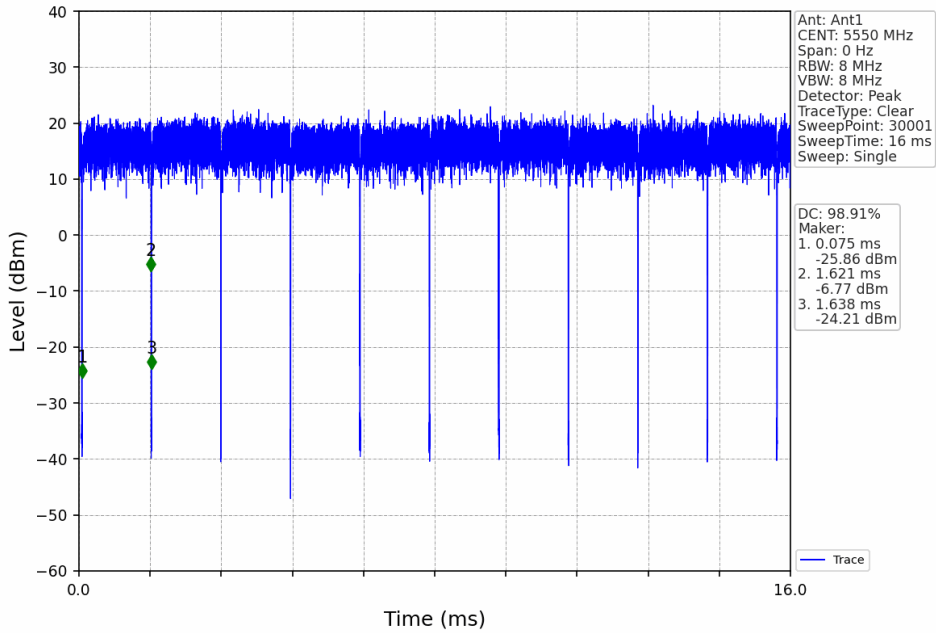


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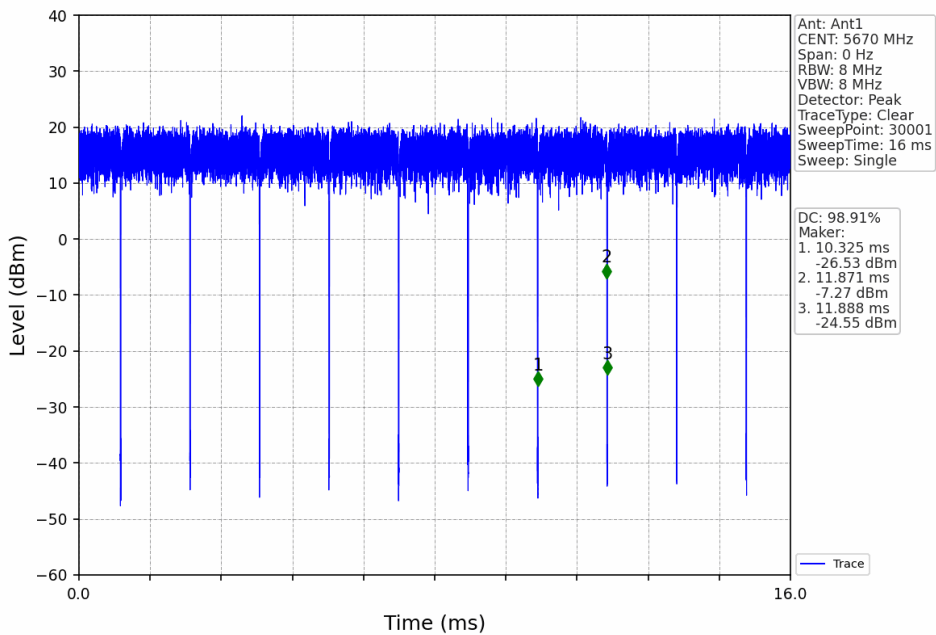


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802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV

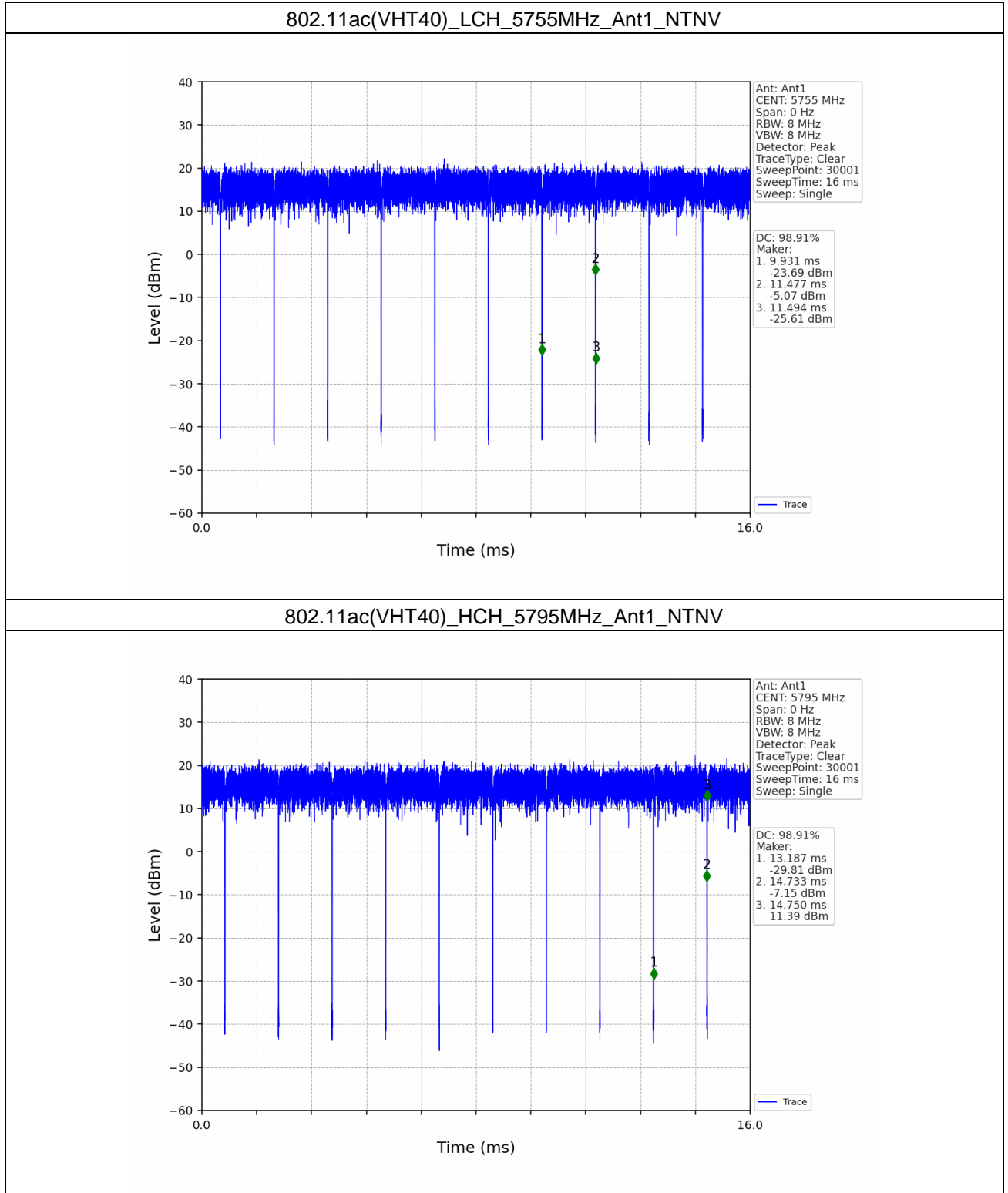


802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV

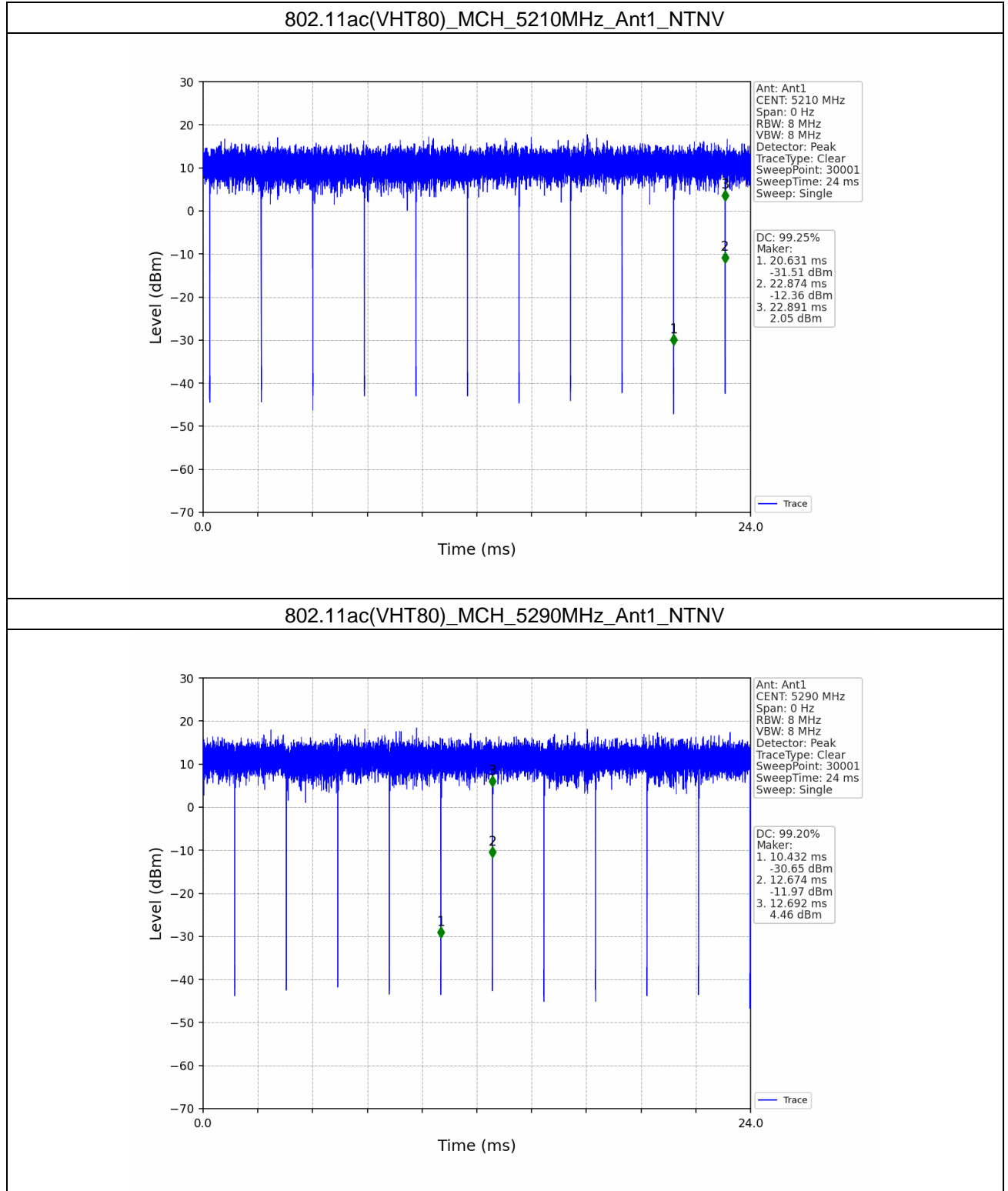


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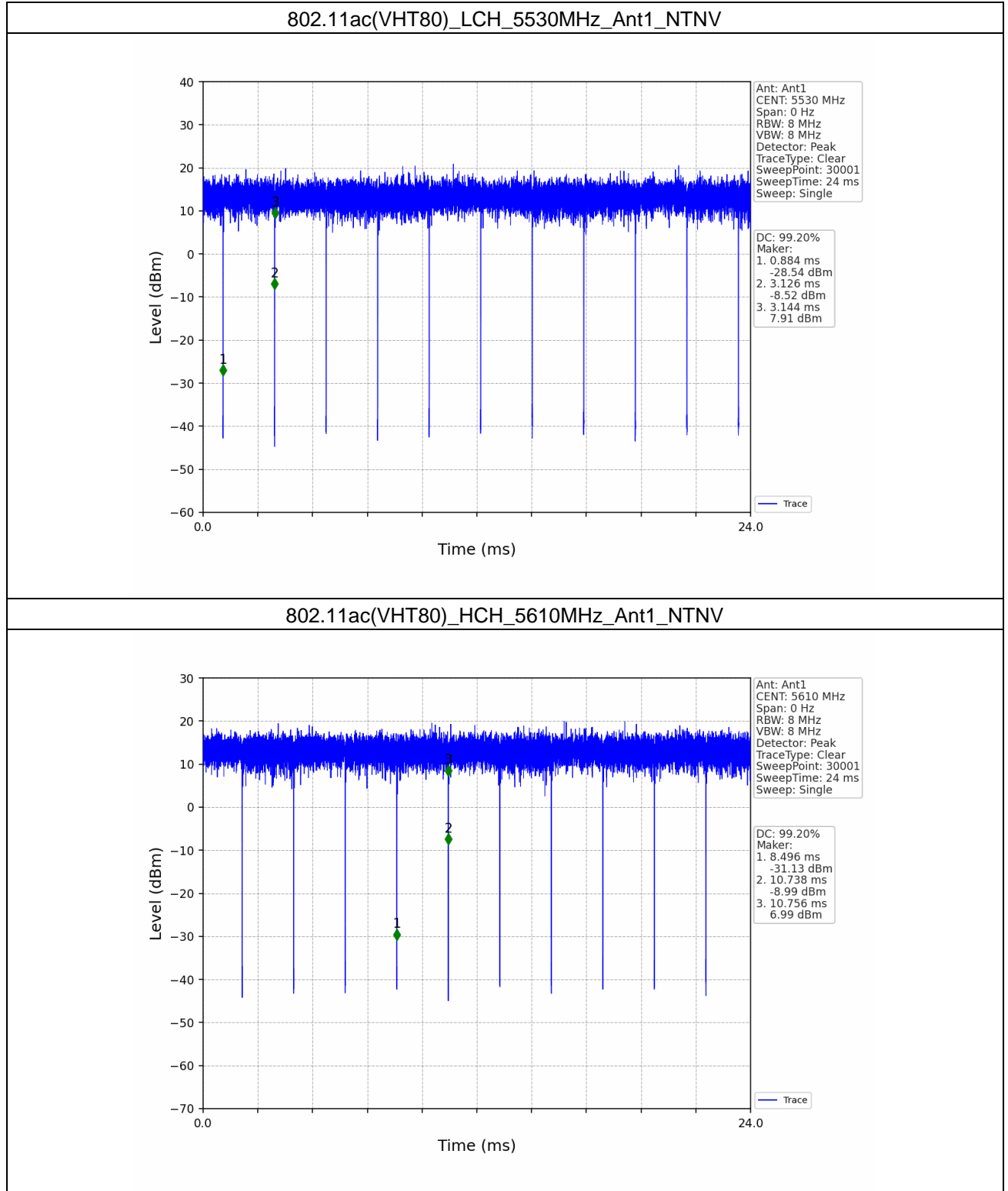
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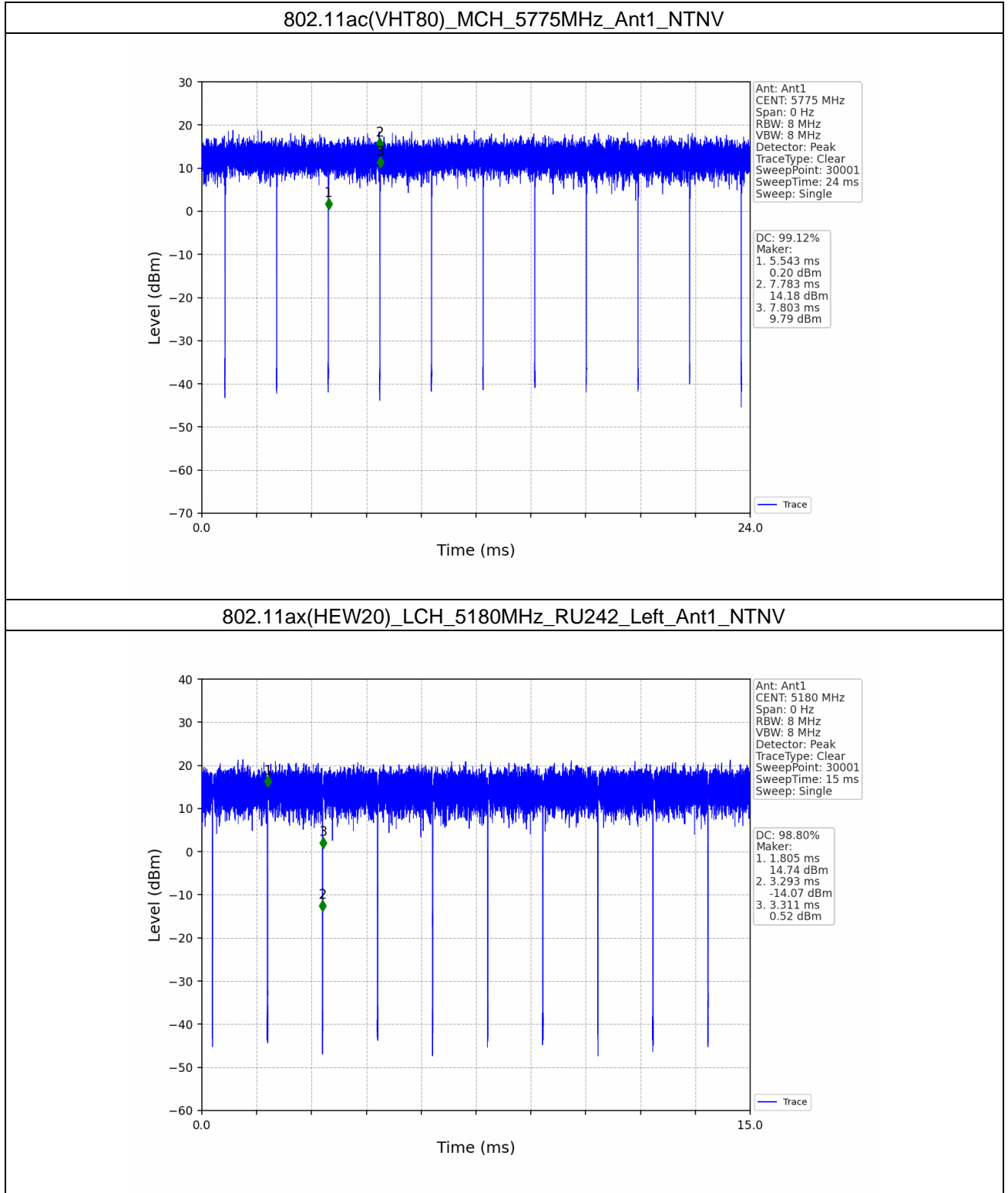
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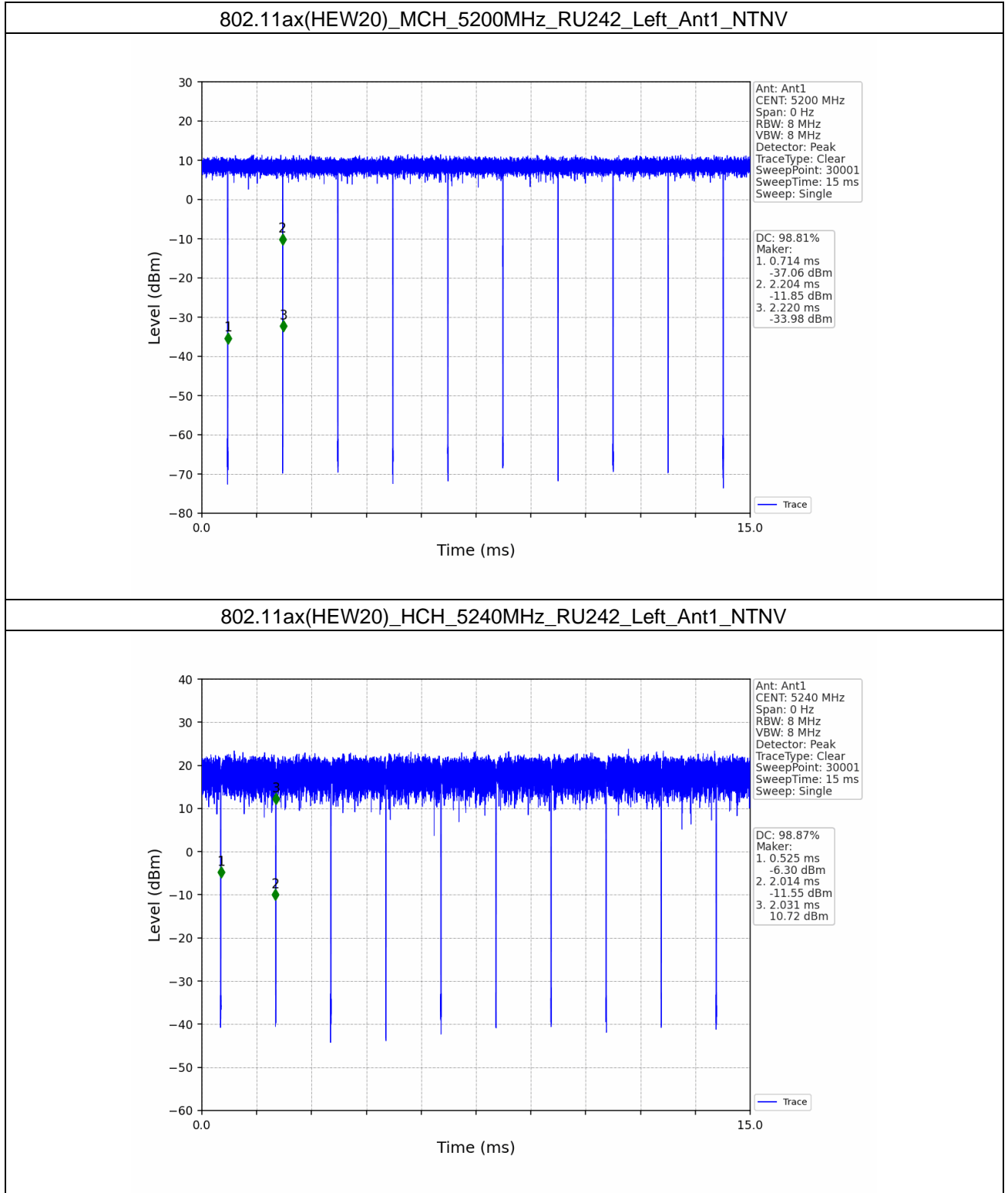
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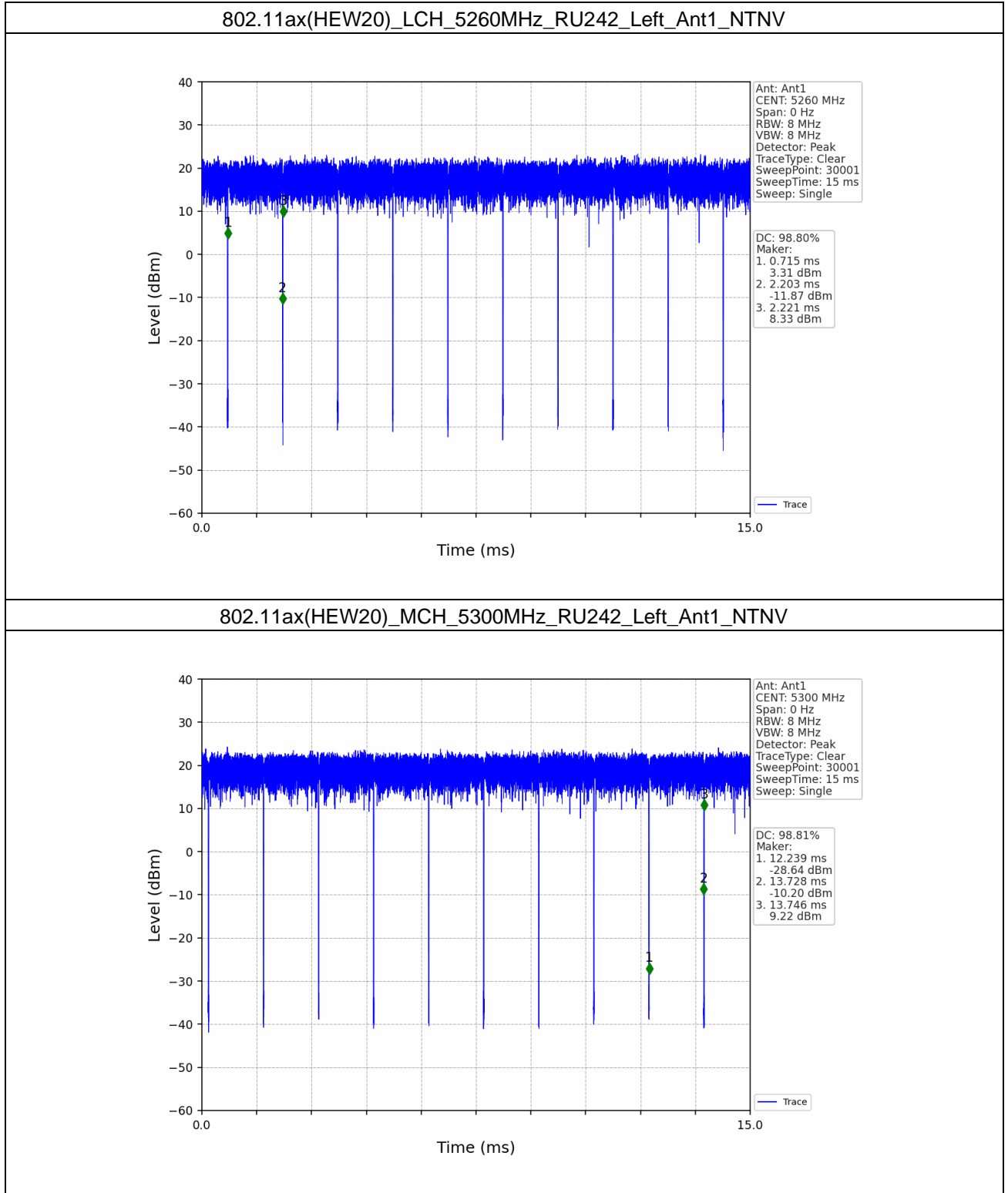
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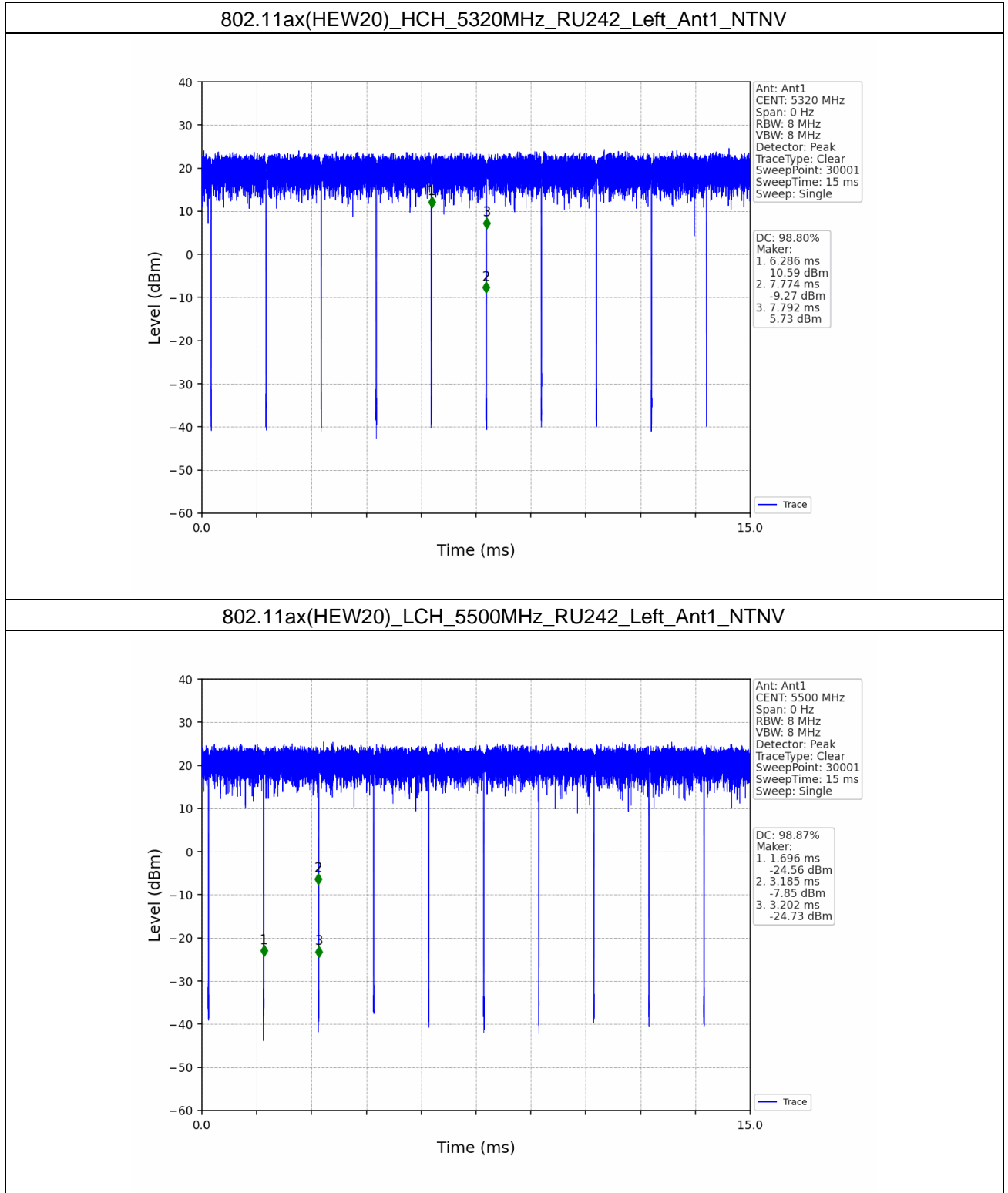
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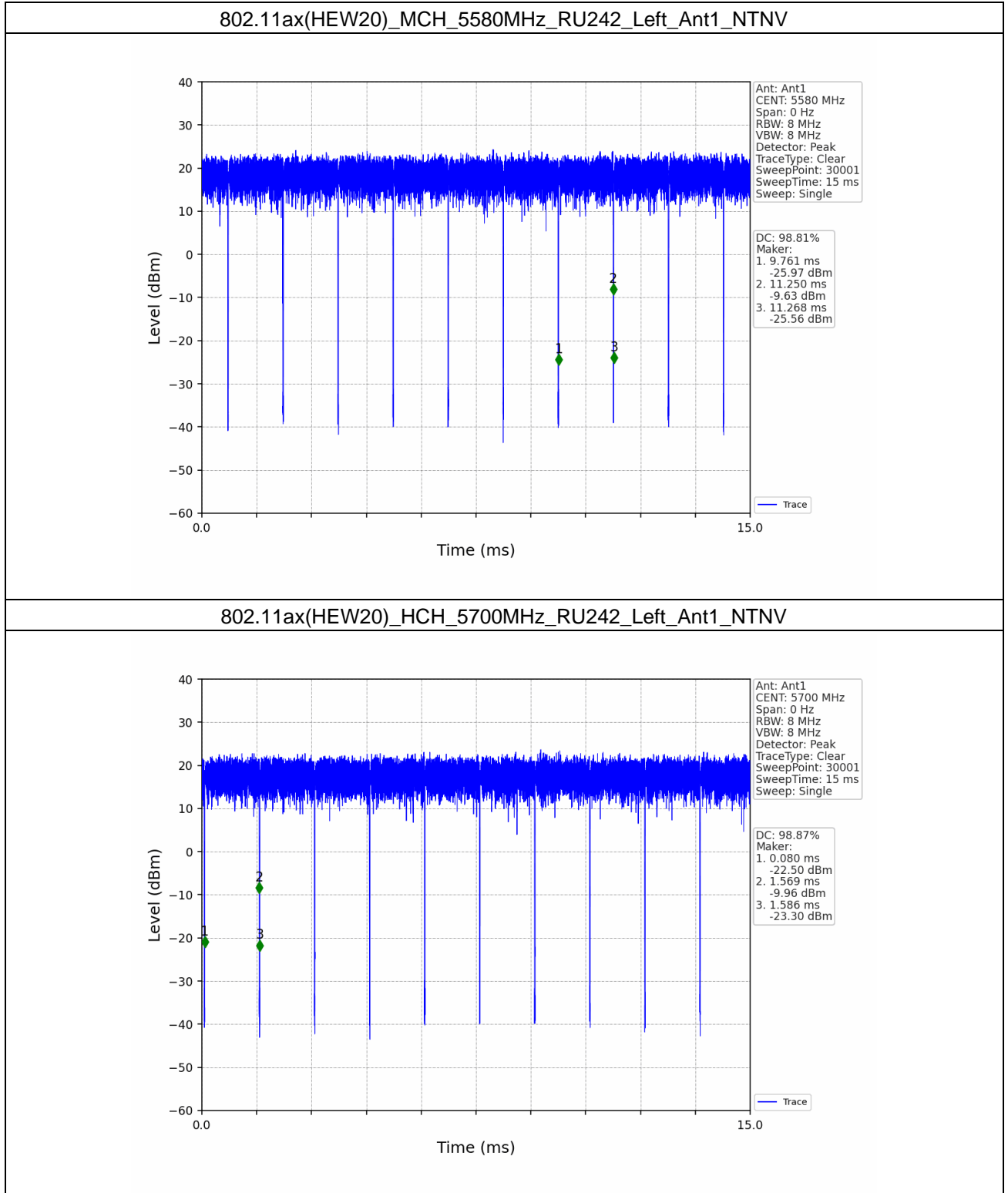


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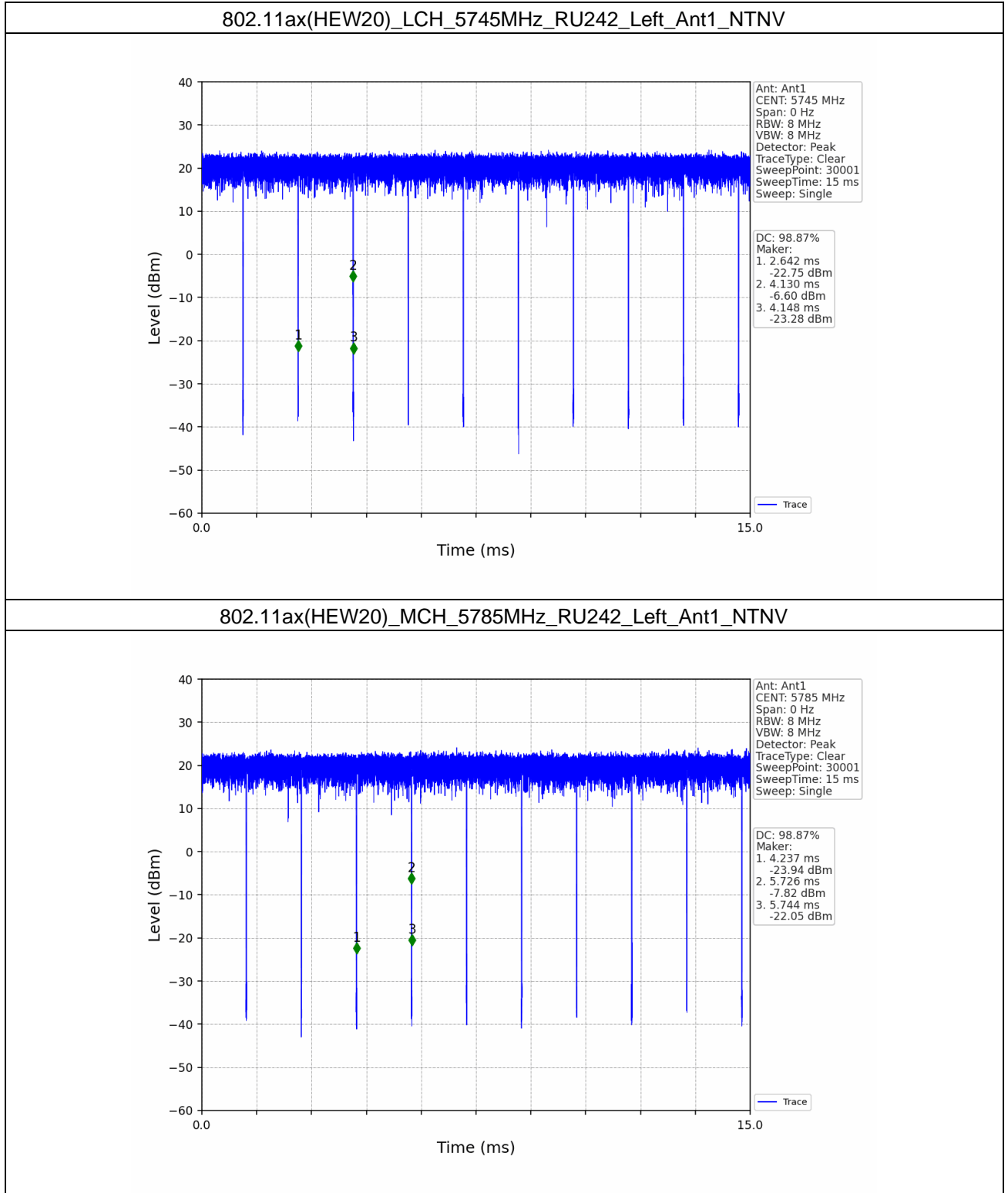


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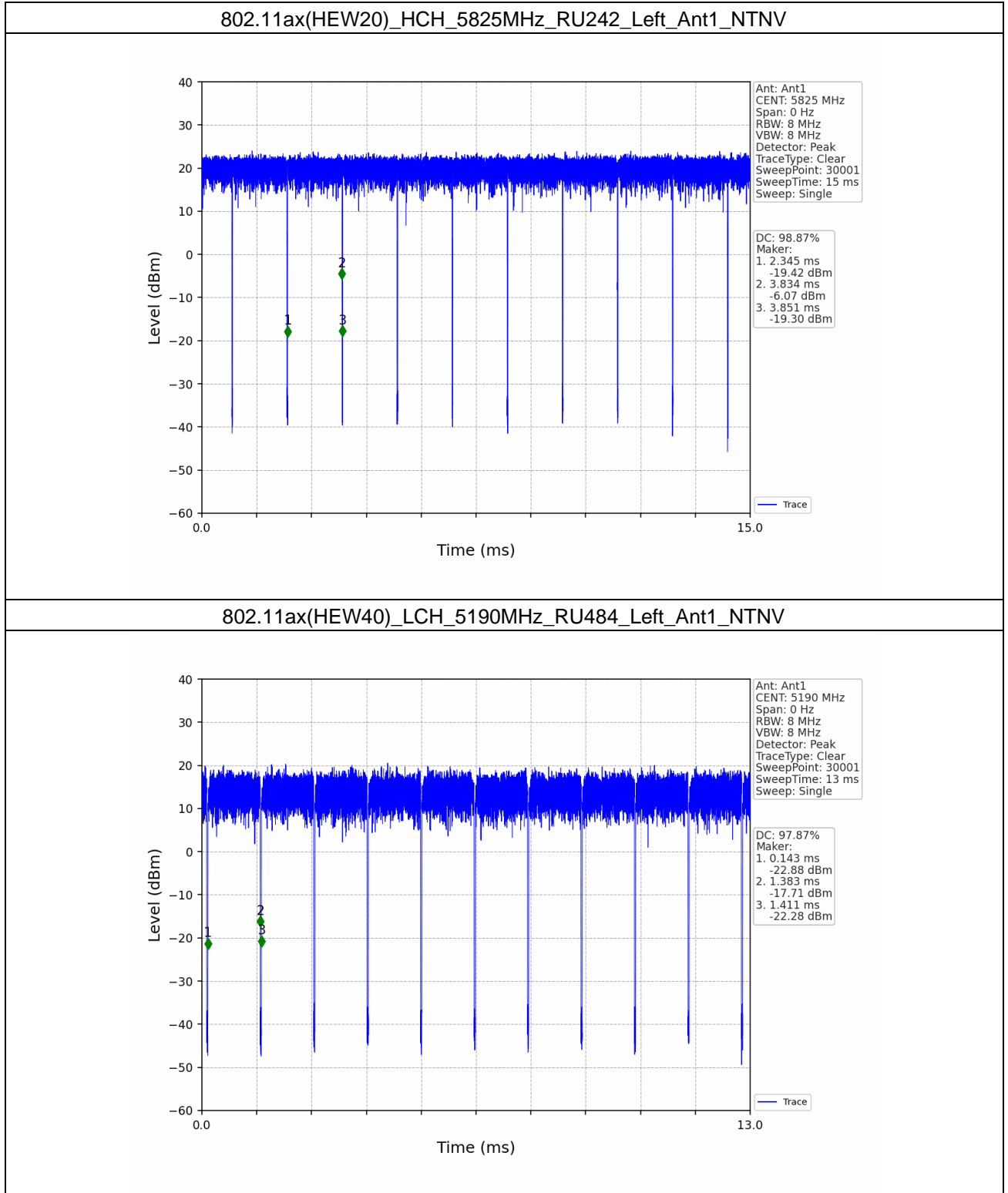
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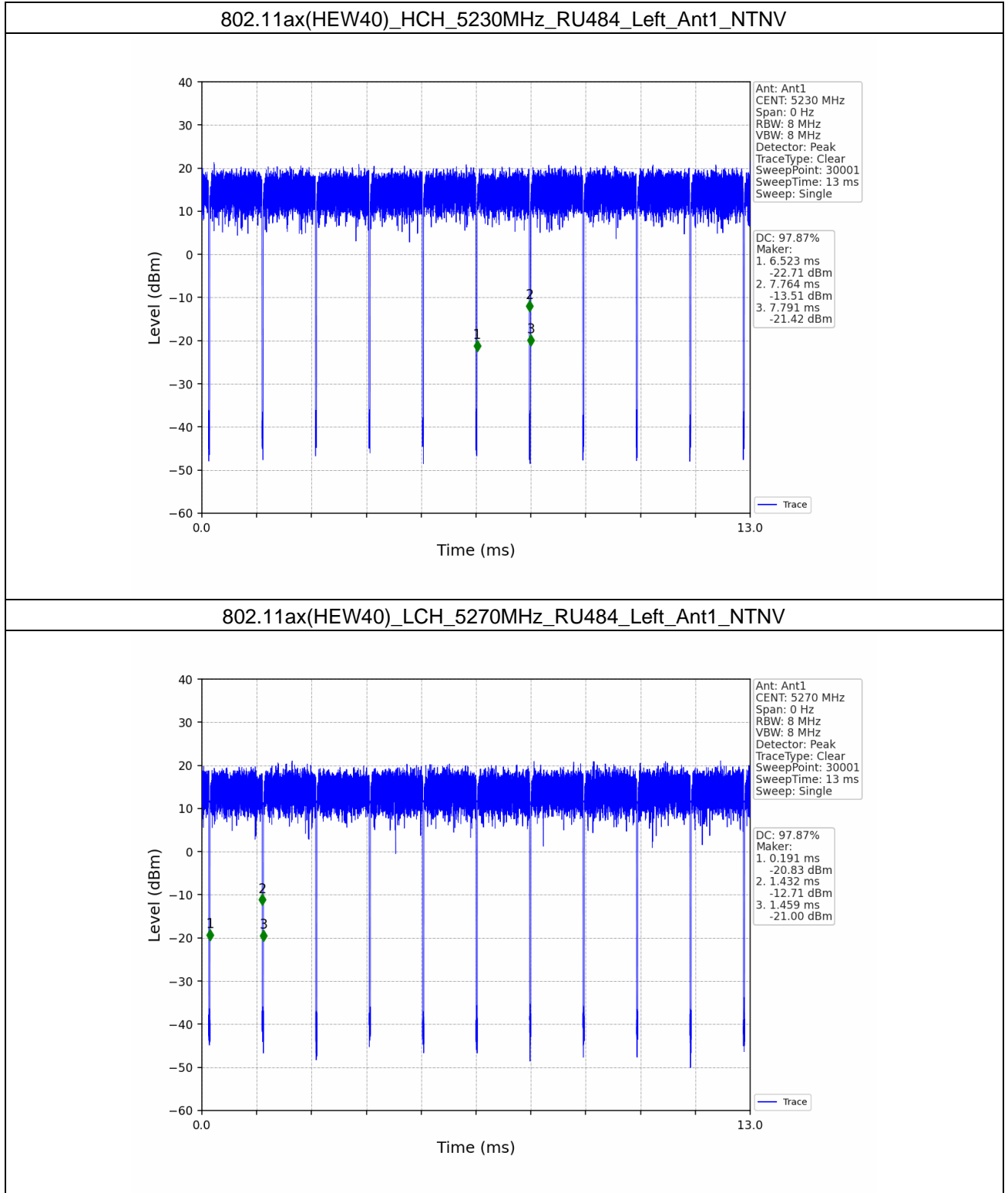
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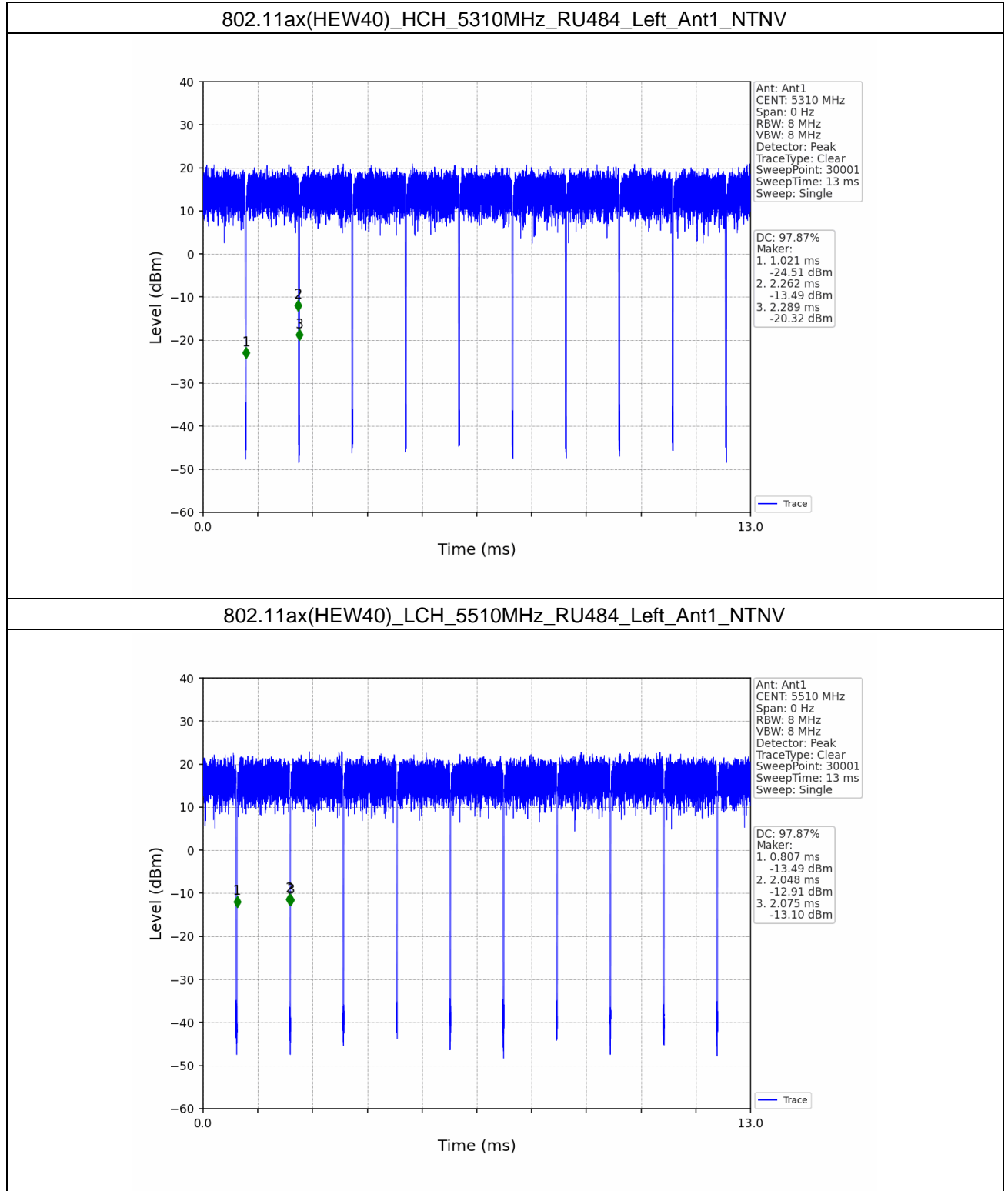
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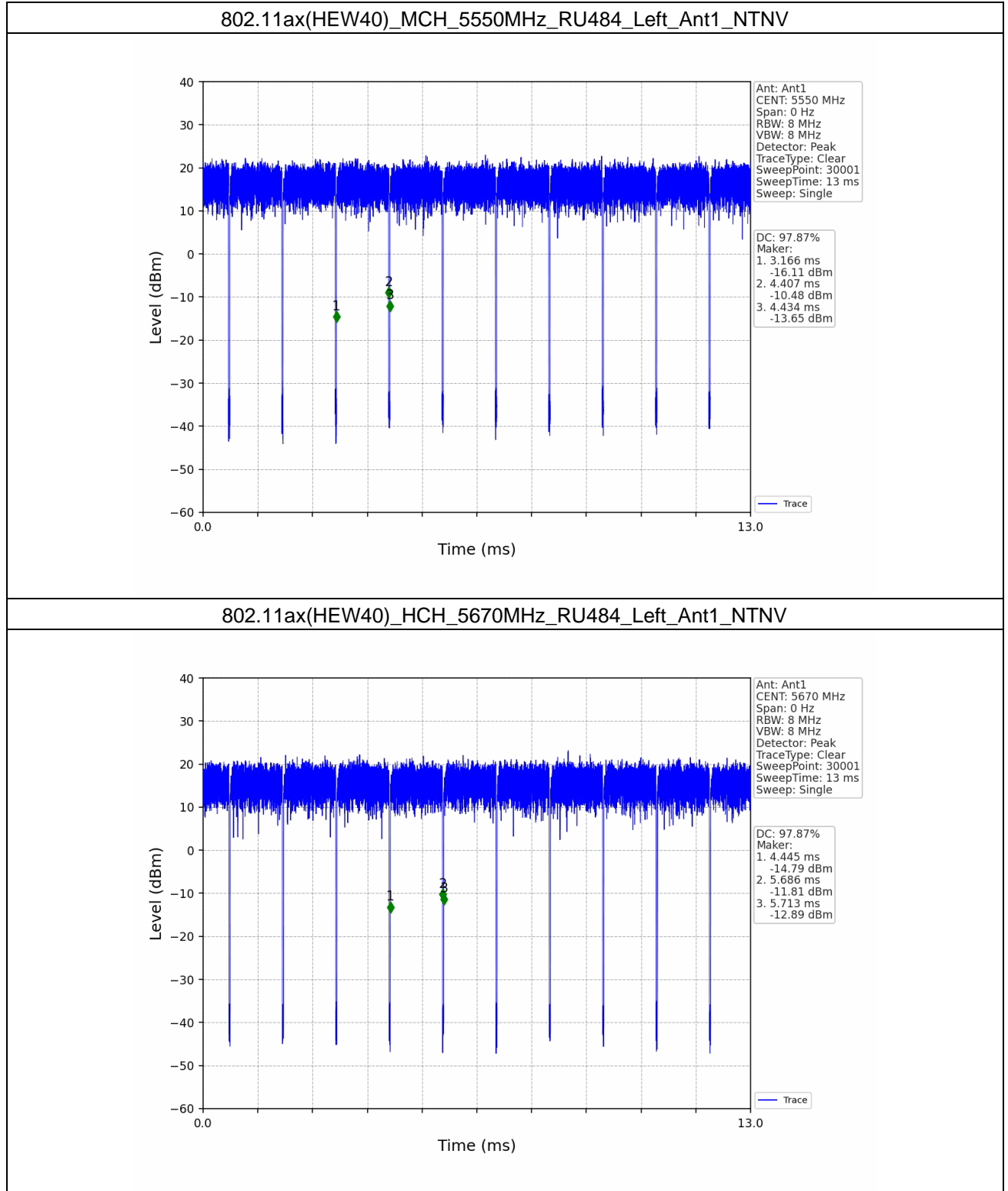
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