



Annex for 5G Wi-Fi BAND1

Test Report No.: CTL2505138011-WF04

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FCCID: 2BCMY-LINCSTATIONE1

1. Duty Cycle

1.1 Test Result

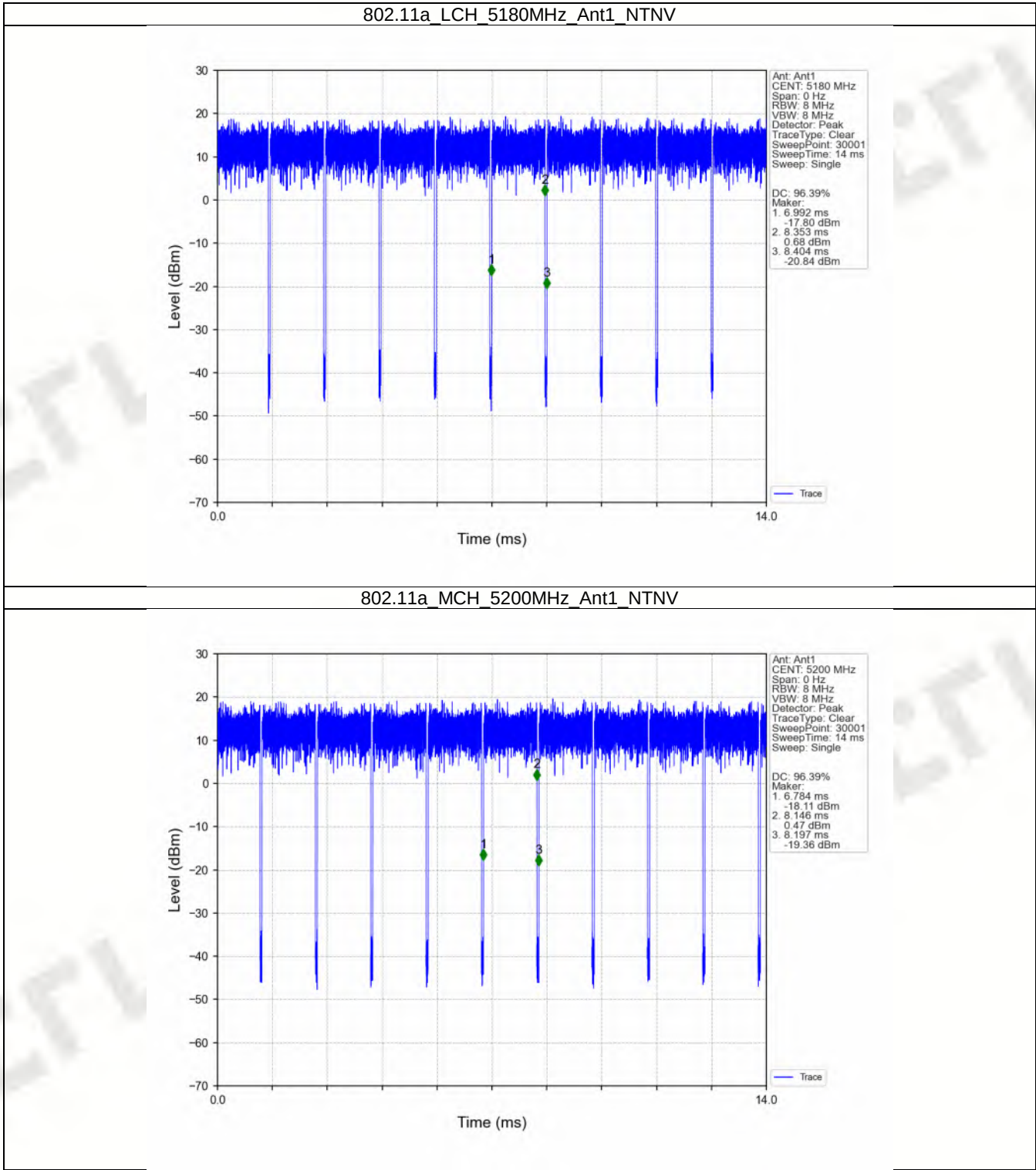
1.1.1 Ant1

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	1.361	1.412	96.39	0.16	0.03
		5200	1.362	1.413	96.39	0.16	0.03
		5240	1.362	1.413	96.39	0.16	0.03
802.11n (HT20)	SISO	5180	1.273	1.324	96.15	0.17	0.03
		5200	1.273	1.324	96.15	0.17	0.04
		5240	1.273	1.324	96.15	0.17	0.04
802.11n (HT40)	SISO	5190	0.634	0.684	92.69	0.33	0.03
		5230	0.634	0.684	92.69	0.33	0.03
802.11n (HT20)	MIMO	5180	1.273	1.324	96.15	0.17	0.03
		5200	1.274	1.325	96.15	0.17	0.03
		5240	1.274	1.325	96.15	0.17	0.03
802.11n (HT40)	MIMO	5190	0.634	0.685	92.55	0.34	0.03
		5230	0.634	0.684	92.69	0.33	0.03
802.11ac (VHT20)	SISO	5180	1.277	1.328	96.16	0.17	0.04
		5200	1.277	1.328	96.16	0.17	0.03
		5240	1.277	1.328	96.16	0.17	0.03
802.11ac (VHT40)	SISO	5190	0.638	0.688	92.73	0.33	0.03
		5230	0.638	0.689	92.60	0.33	0.03
802.11ac (VHT80)	SISO	5210	0.317	0.368	86.14	0.65	0.04
802.11ac (VHT20)	MIMO	5180	1.277	1.328	96.16	0.17	0.03
		5200	1.278	1.329	96.16	0.17	0.04
		5240	1.278	1.329	96.16	0.17	0.03
802.11ac (VHT40)	MIMO	5190	0.637	0.688	92.59	0.33	0.07
		5230	0.638	0.689	92.60	0.33	0.03
802.11ac (VHT80)	MIMO	5210	0.318	0.369	86.18	0.65	0.07

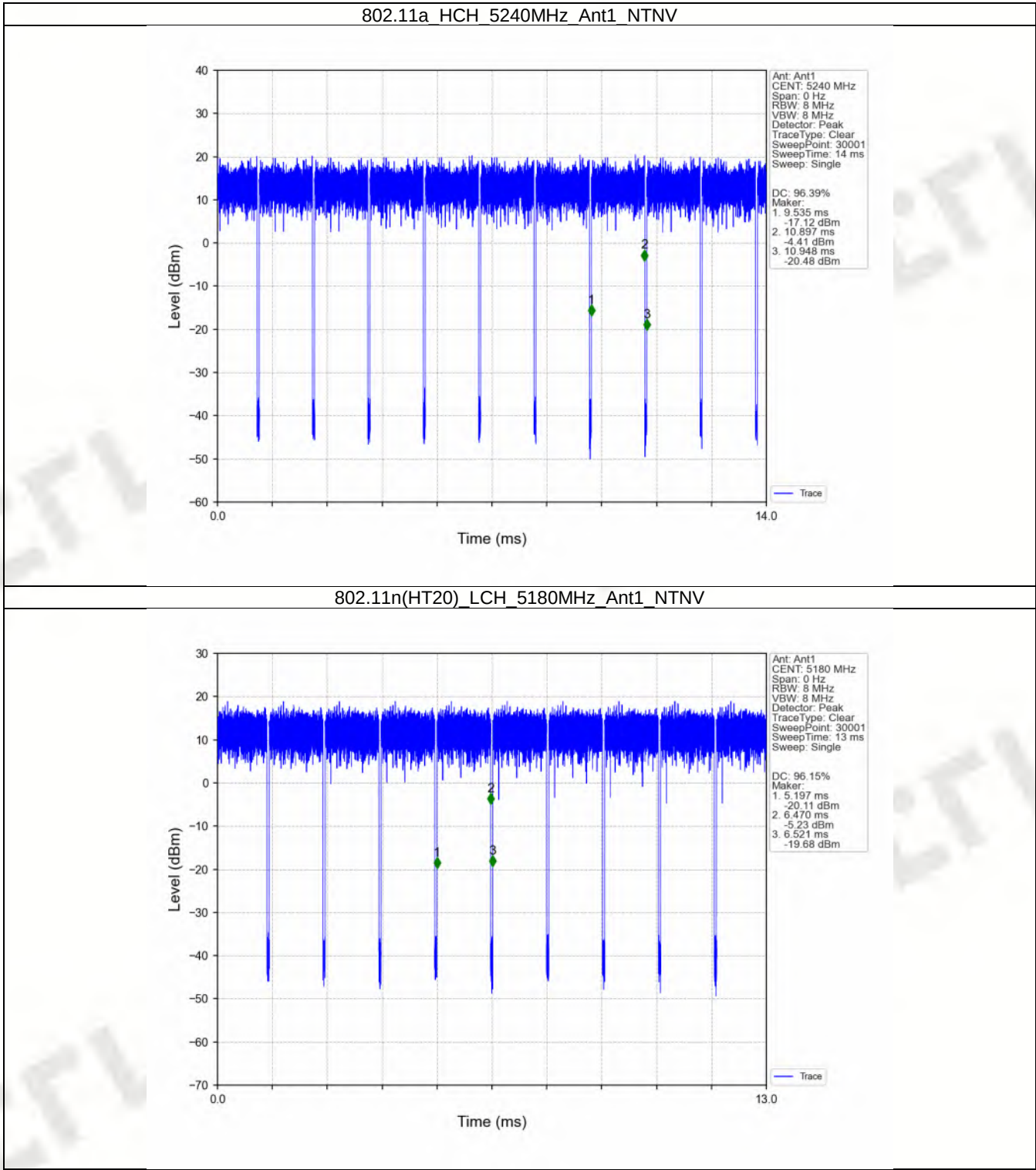
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1.2 Test Graph

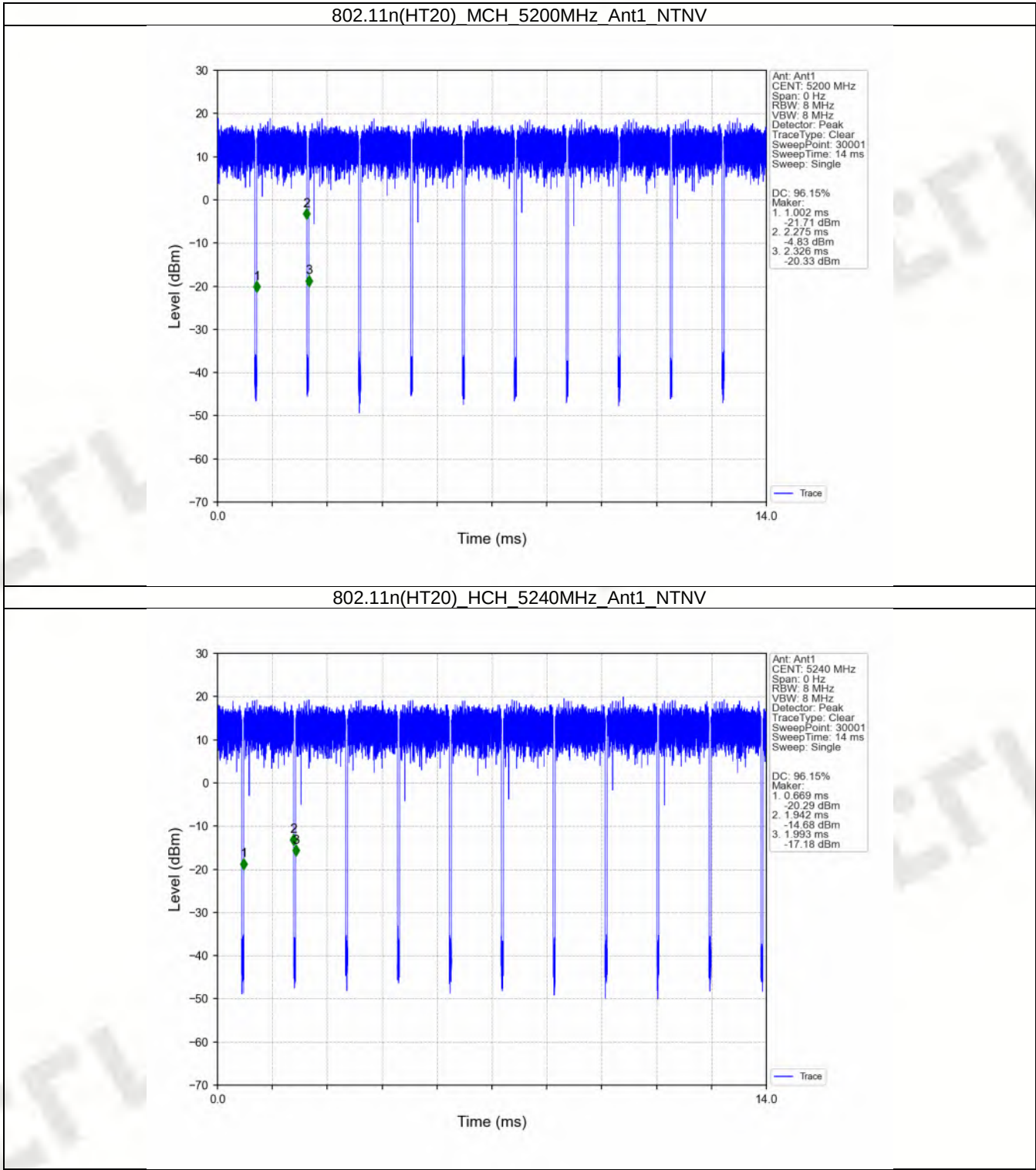
1.2.1 Ant1



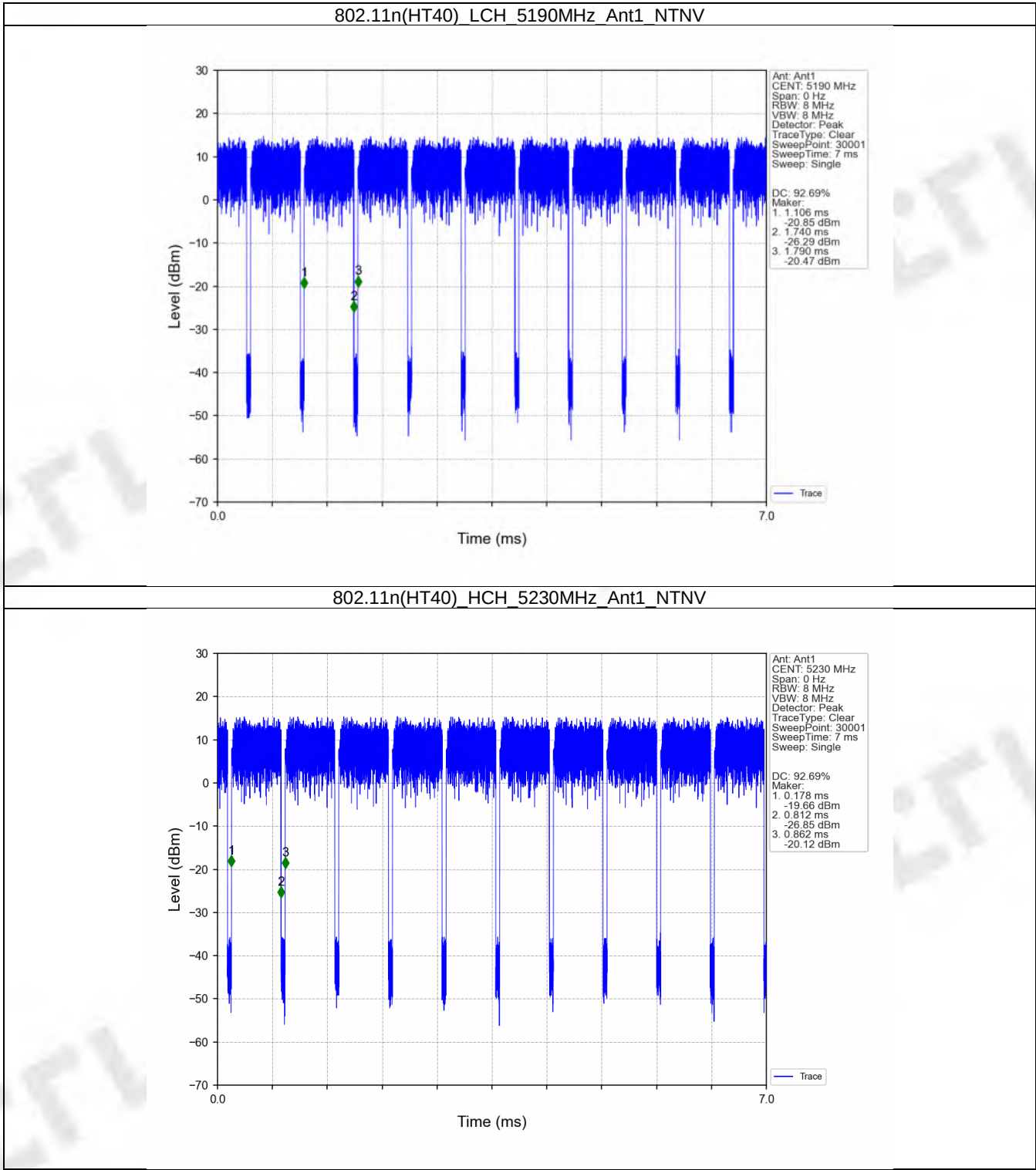
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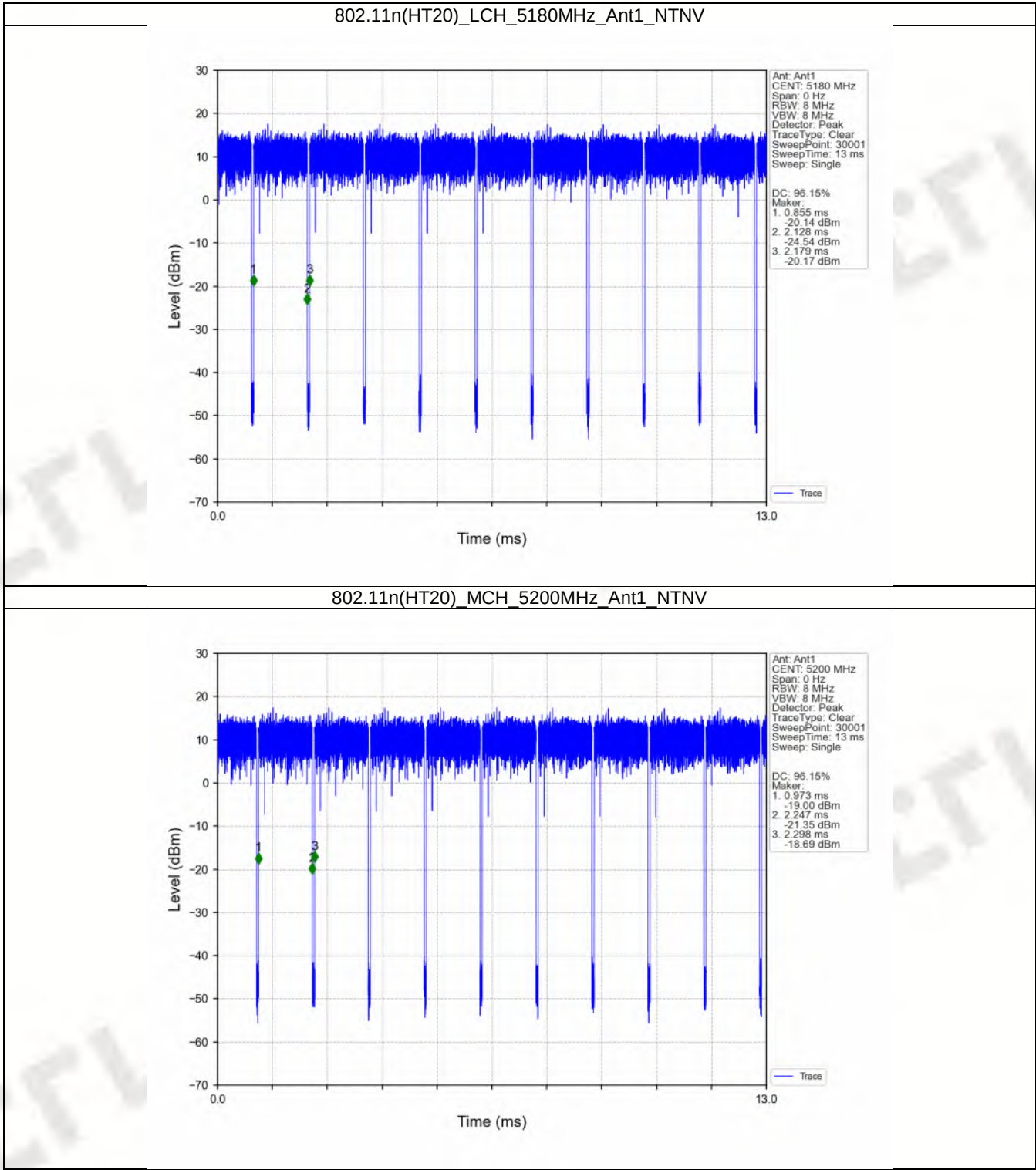
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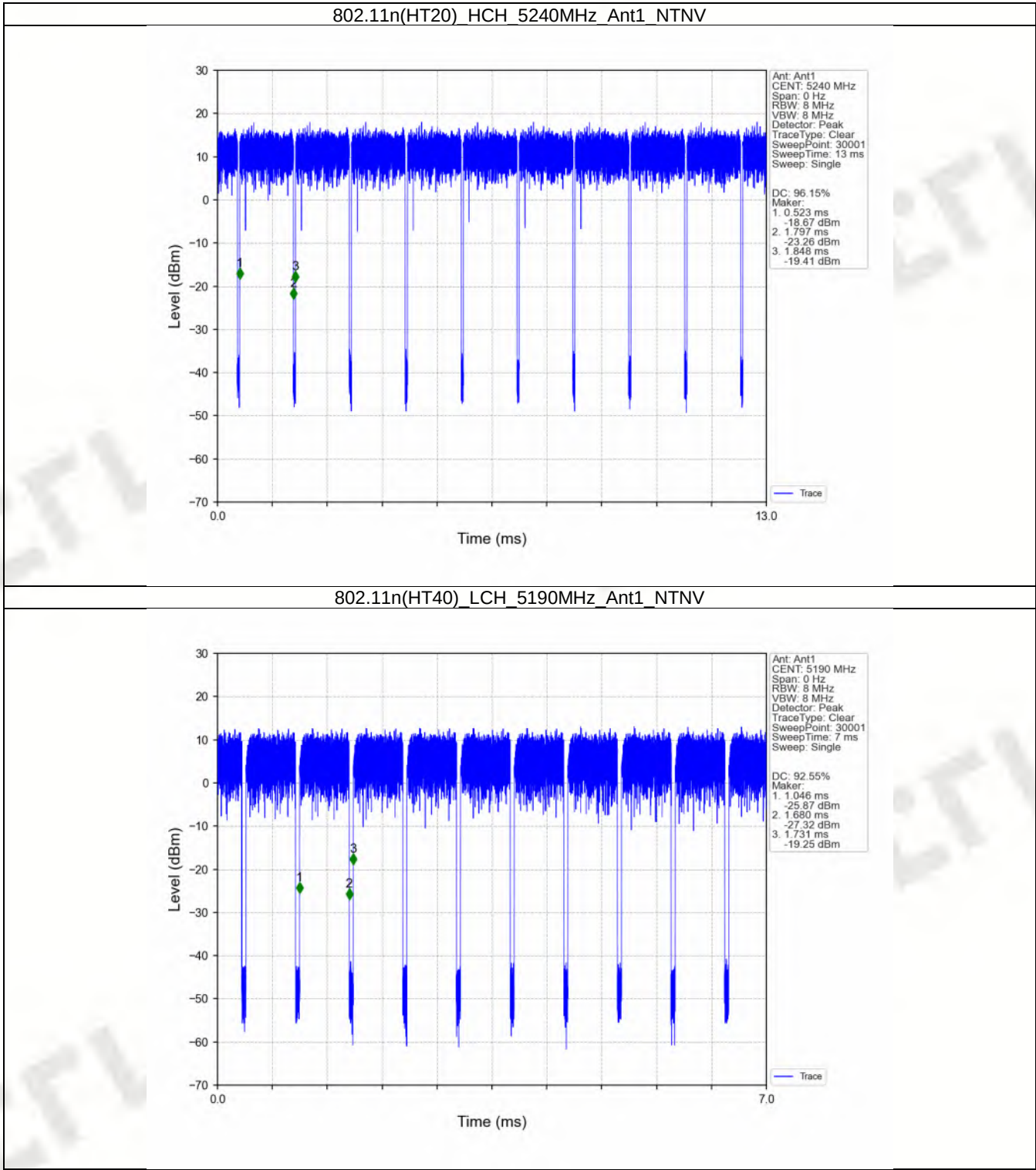
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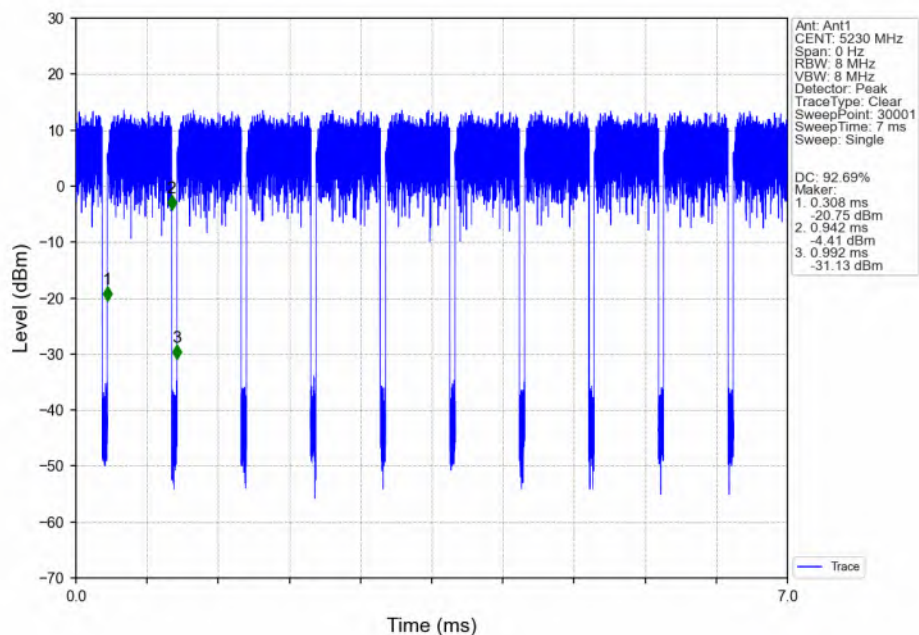


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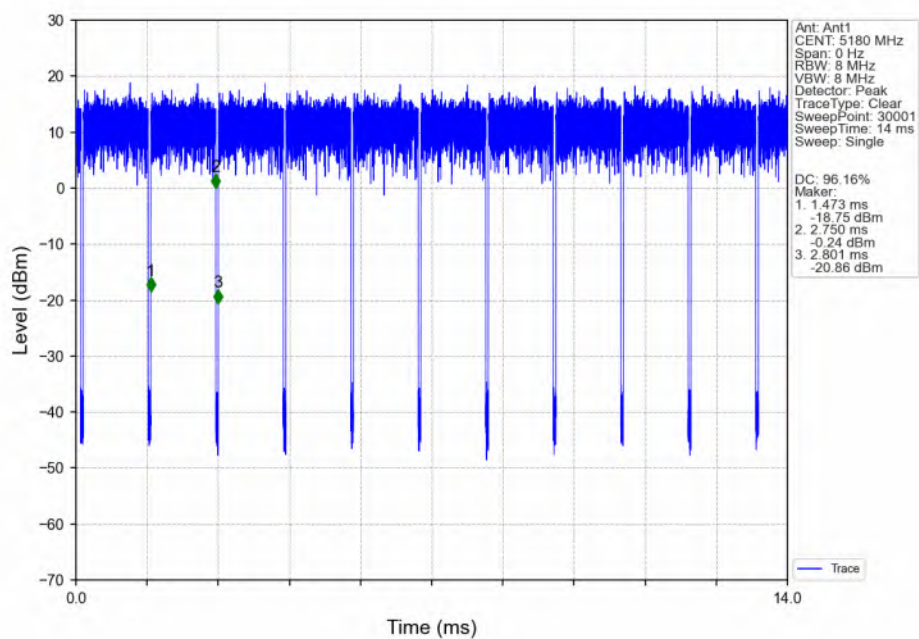


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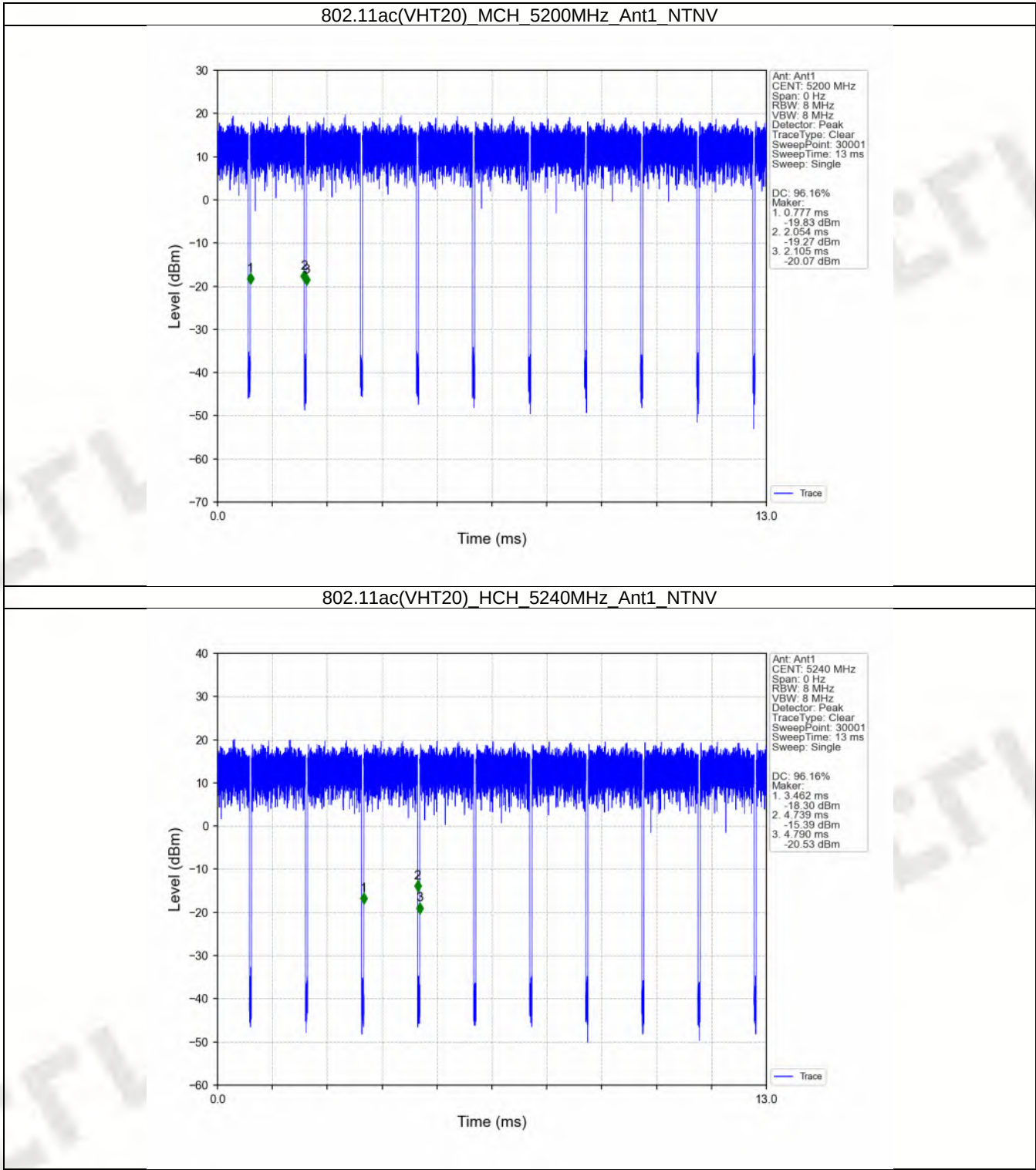
802.11n(HT40) HCH 5230MHz Ant1 NTN



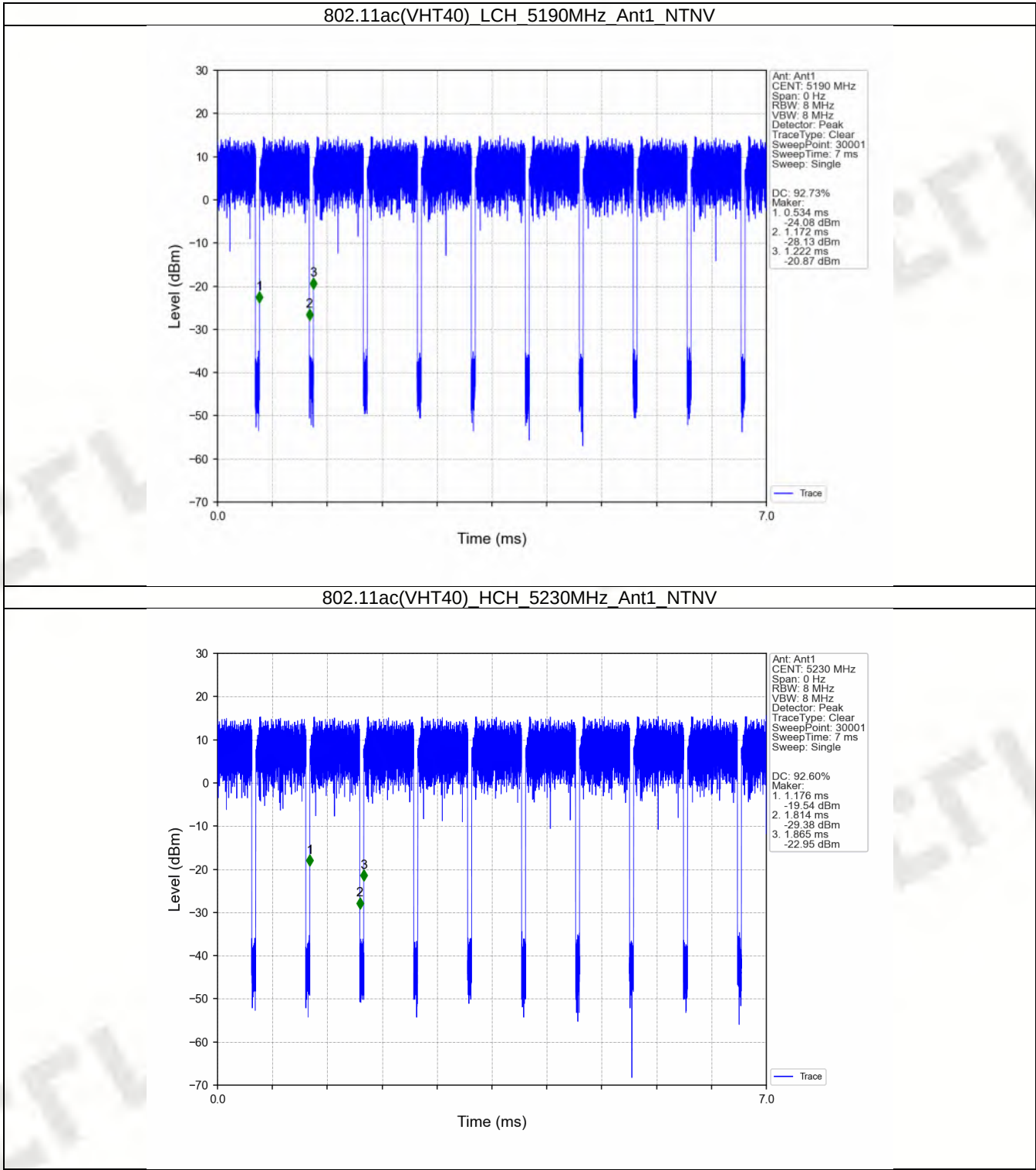
802.11ac(VHT20) LCH_5180MHz_Ant1 NTN



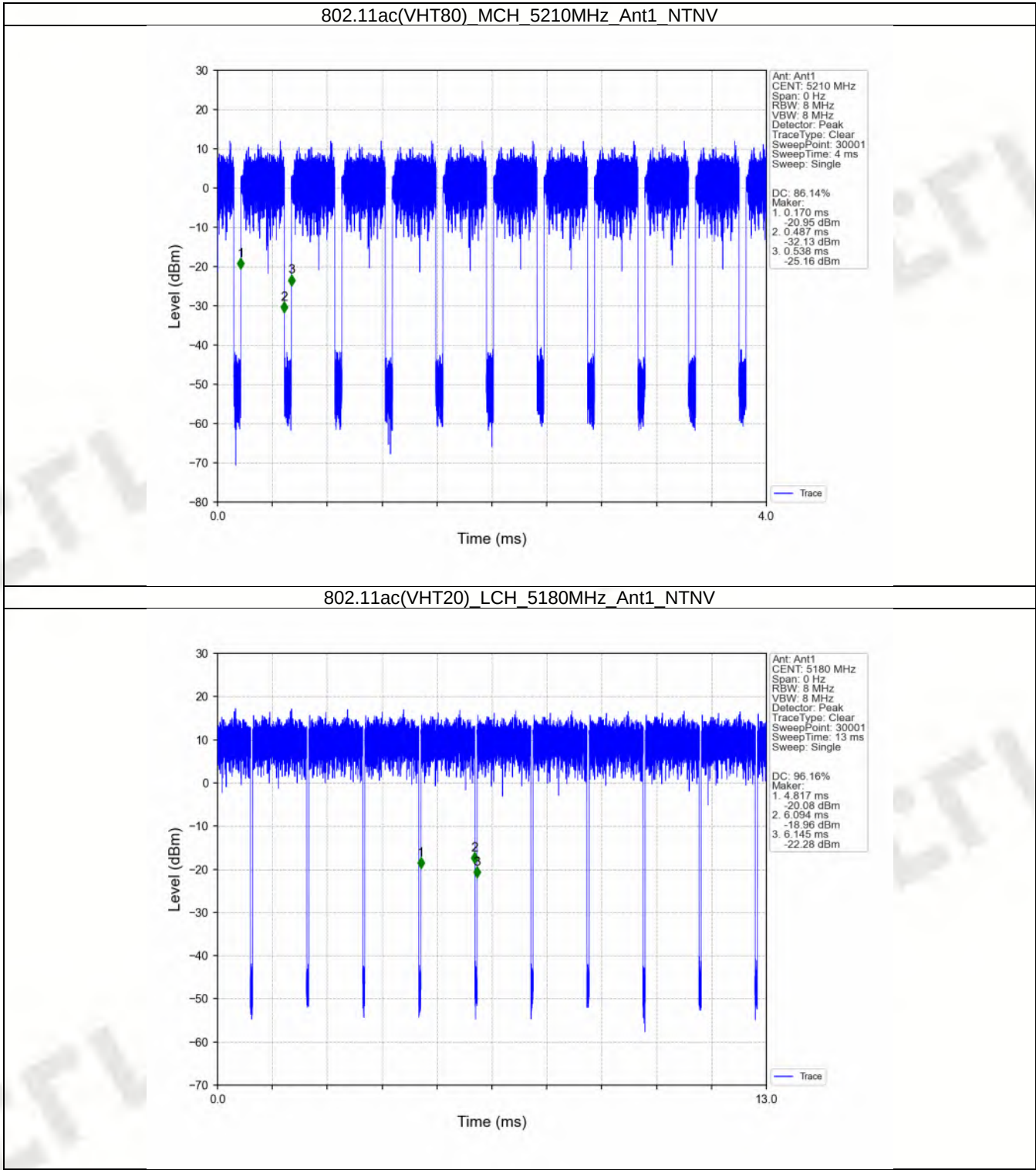
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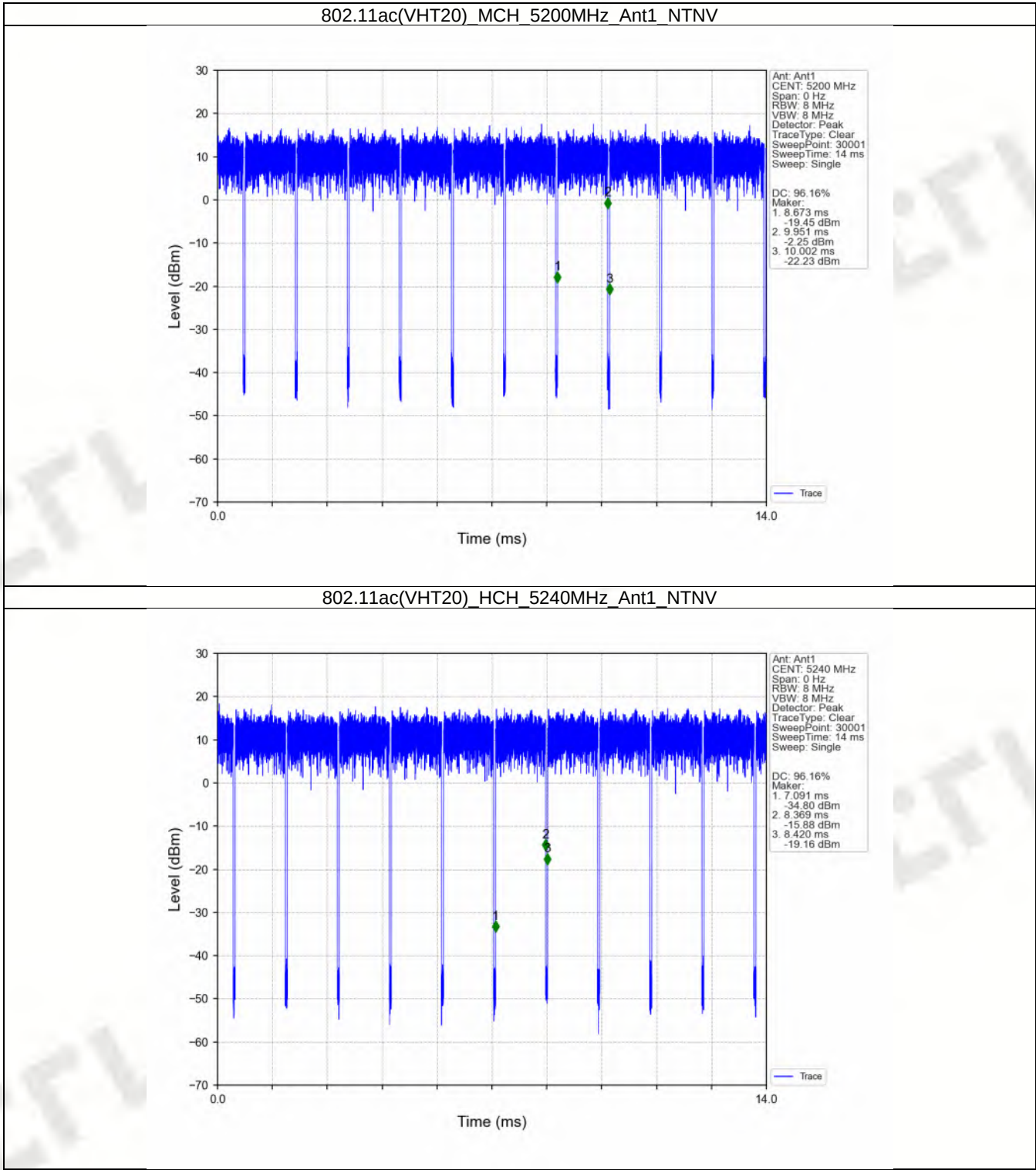
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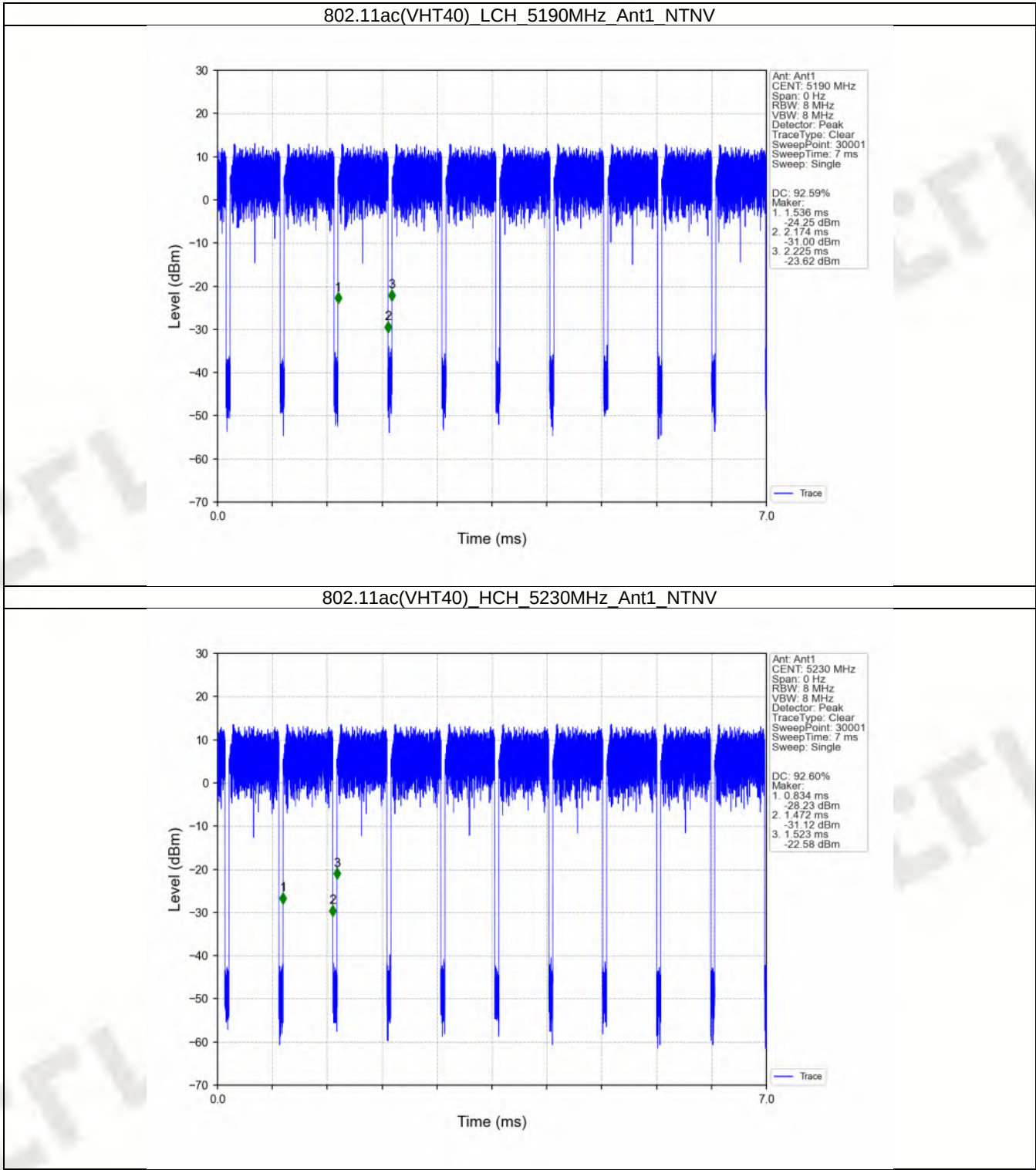
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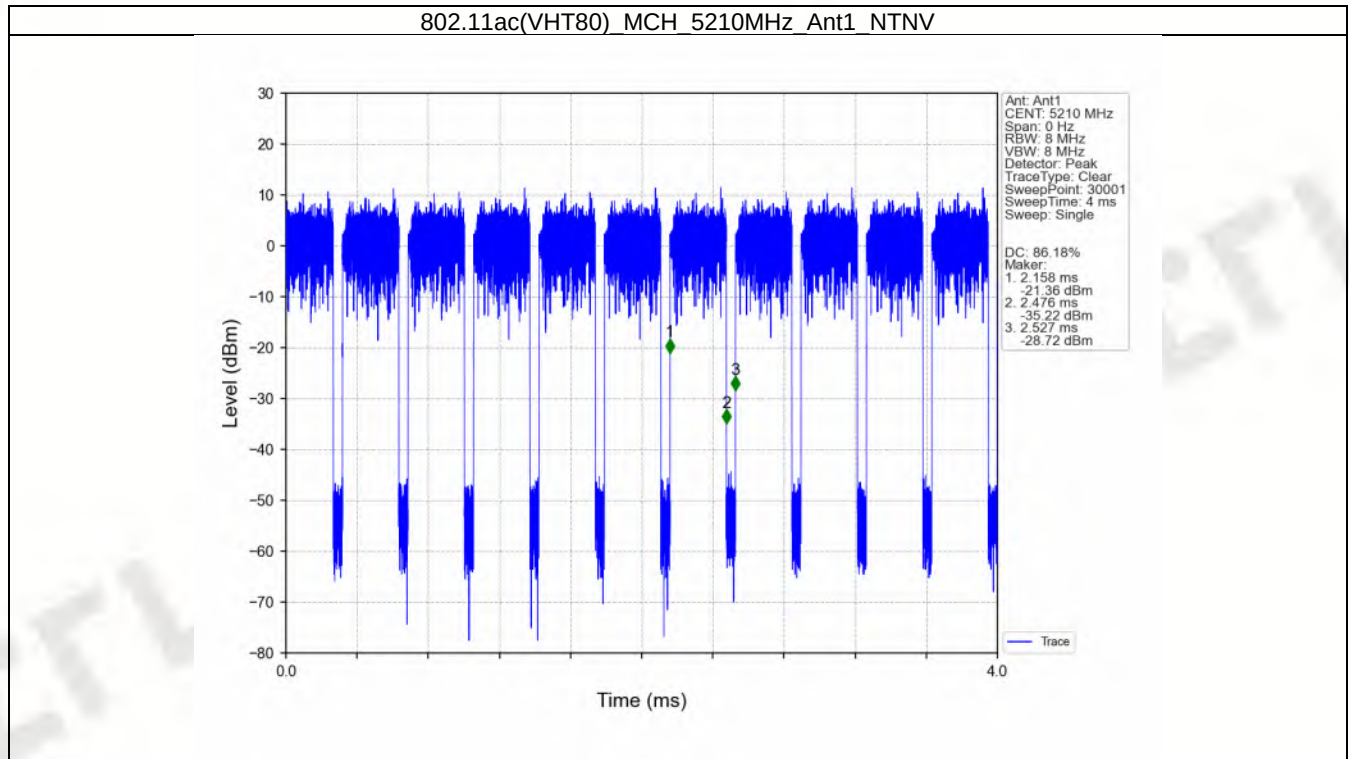
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FCCID: 2BCMY-LINCSTATIONE1



FCCID: 2BCMY-LINCSTATIONE1



FCCID: 2BCMY-LINCSTATIONE1

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	16.716	/	Pass
		5200	1	16.824	/	Pass
		5240	1	17.068	/	Pass
802.11n (HT20)	SISO	5180	1	17.803	/	Pass
		5200	1	17.861	/	Pass
		5240	1	17.999	/	Pass
802.11n (HT40)	SISO	5190	1	36.502	/	Pass
		5230	1	36.735	/	Pass
802.11n (HT20)	MIMO	5180	1	17.778	/	Pass
		5200	1	17.793	/	Pass
		5240	1	17.797	/	Pass
802.11n (HT40)	MIMO	5190	1	36.326	/	Pass
		5230	1	36.523	/	Pass
802.11ac (VHT20)	SISO	5180	1	17.786	/	Pass
		5200	1	17.850	/	Pass
		5240	1	17.974	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.417	/	Pass
		5230	1	36.605	/	Pass
802.11ac (VHT80)	SISO	5210	1	75.362	/	Pass
802.11ac (VHT20)	MIMO	5180	1	17.786	/	Pass
		5200	1	17.772	/	Pass
		5240	1	17.870	/	Pass
802.11ac (VHT40)	MIMO	5190	1	36.282	/	Pass
		5230	1	36.497	/	Pass
802.11ac (VHT80)	MIMO	5210	1	75.246	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	18.950	/	Pass
		5200	1	19.036	/	Pass
		5240	1	22.438	/	Pass
802.11n (HT20)	SISO	5180	1	19.302	/	Pass
		5200	1	19.583	/	Pass
		5240	1	21.056	/	Pass
802.11n (HT40)	SISO	5190	1	41.421	/	Pass
		5230	1	42.847	/	Pass
802.11n (HT20)	MIMO	5180	1	19.422	/	Pass
		5200	1	19.367	/	Pass
		5240	1	19.426	/	Pass
802.11n (HT40)	MIMO	5190	1	41.064	/	Pass
		5230	1	41.216	/	Pass

FCCID: 2BCMY-LINCSTATIONE1

802.11ac (VHT20)	SISO	5180	1	19.269	/	Pass
		5200	1	19.438	/	Pass
		5240	1	25.311	/	Pass
802.11ac (VHT40)	SISO	5190	1	40.733	/	Pass
		5230	1	46.514	/	Pass
802.11ac (VHT80)	SISO	5210	1	91.129	/	Pass
802.11ac (VHT20)	MIMO	5180	1	19.360	/	Pass
		5200	1	19.421	/	Pass
		5240	1	21.763	/	Pass
802.11ac (VHT40)	MIMO	5190	1	40.465	/	Pass
		5230	1	47.364	/	Pass
802.11ac (VHT80)	MIMO	5210	1	83.390	/	Pass

2.1.3 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	2	16.671	/	Pass
		5200	2	16.657	/	Pass
		5240	2	16.675	/	Pass
802.11n (HT20)	SISO	5180	2	17.744	/	Pass
		5200	2	17.733	/	Pass
		5240	2	17.713	/	Pass
802.11n (HT40)	SISO	5190	2	36.322	/	Pass
		5230	2	36.329	/	Pass
802.11ac (VHT20)	SISO	5180	2	17.733	/	Pass
		5200	2	17.722	/	Pass
		5240	2	17.711	/	Pass
802.11ac (VHT40)	SISO	5190	2	36.303	/	Pass
		5230	2	36.281	/	Pass
802.11ac (VHT80)	SISO	5210	2	75.322	/	Pass

2.1.4 26dB BW

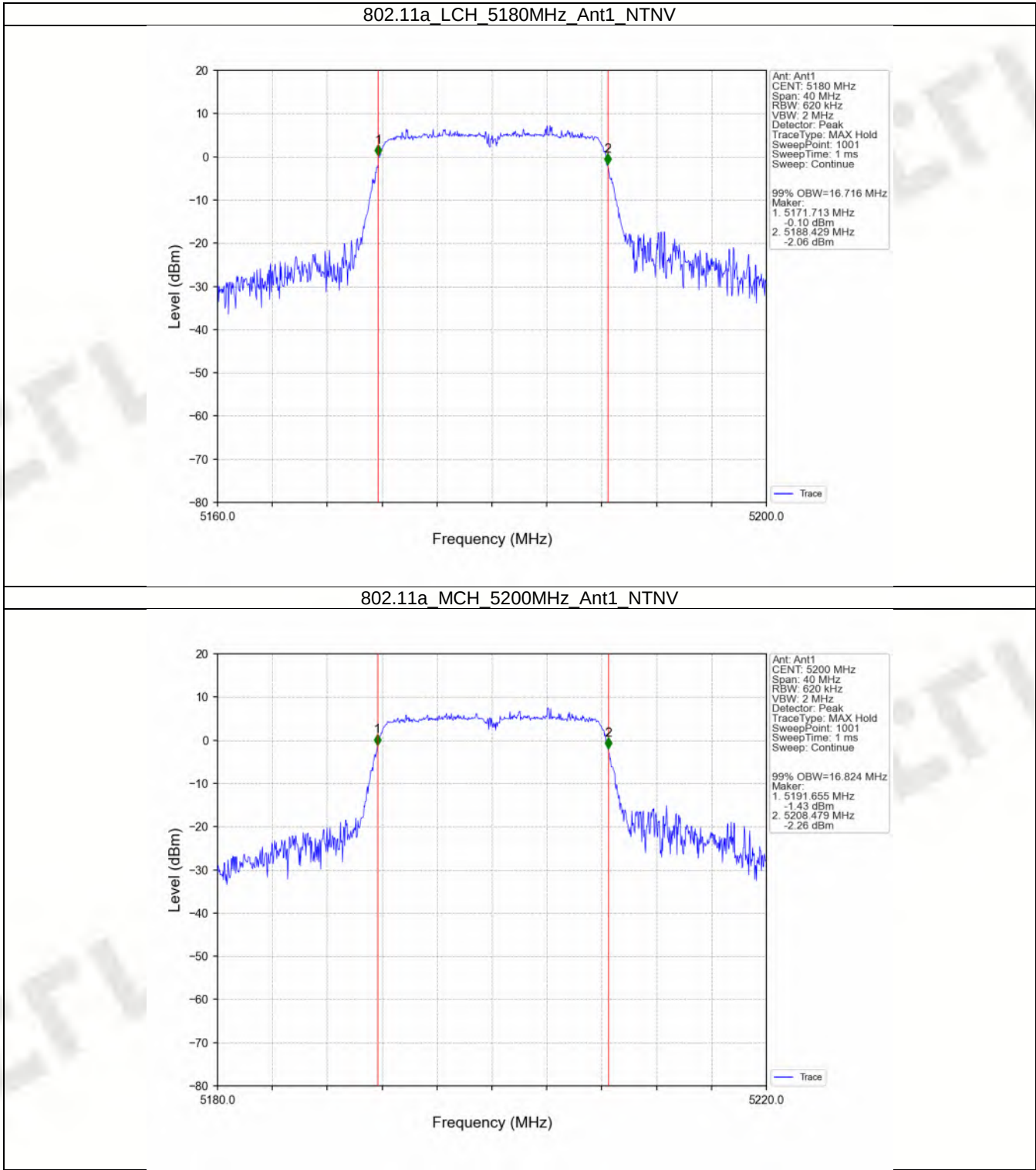
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	2	22.821	/	Pass
		5200	2	21.437	/	Pass
		5240	2	20.522	/	Pass
802.11n (HT20)	SISO	5180	2	22.614	/	Pass
		5200	2	22.272	/	Pass
		5240	2	22.068	/	Pass
802.11n (HT40)	SISO	5190	2	47.958	/	Pass
		5230	2	46.125	/	Pass
802.11ac (VHT20)	SISO	5180	2	23.377	/	Pass
		5200	2	21.986	/	Pass
		5240	2	21.267	/	Pass
802.11ac (VHT40)	SISO	5190	2	47.498	/	Pass
		5230	2	44.762	/	Pass
802.11ac (VHT80)	SISO	5210	2	85.666	/	Pass

FCCID: 2BCMY-LINCSTATIONE1

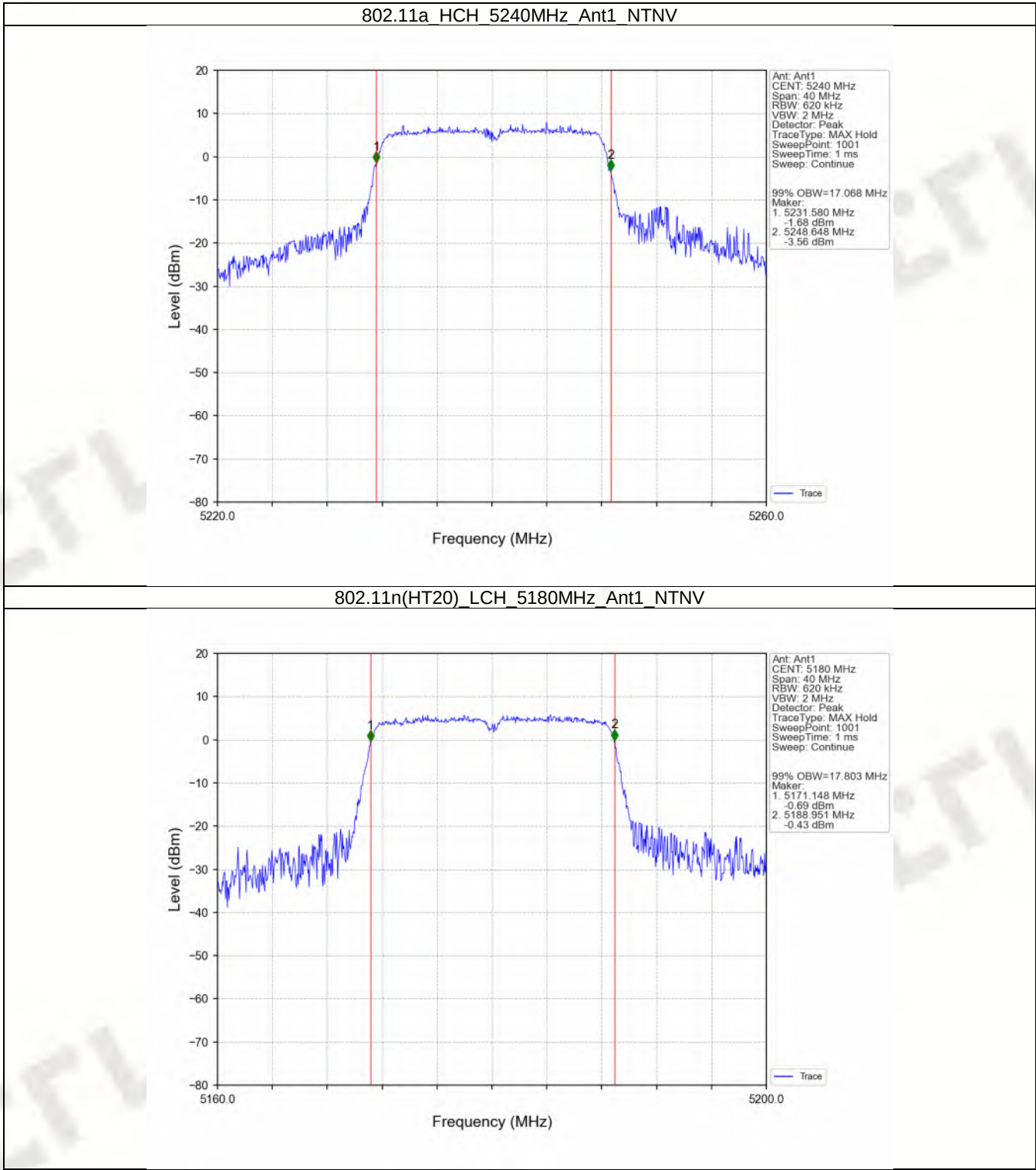
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2.2 Test Graph

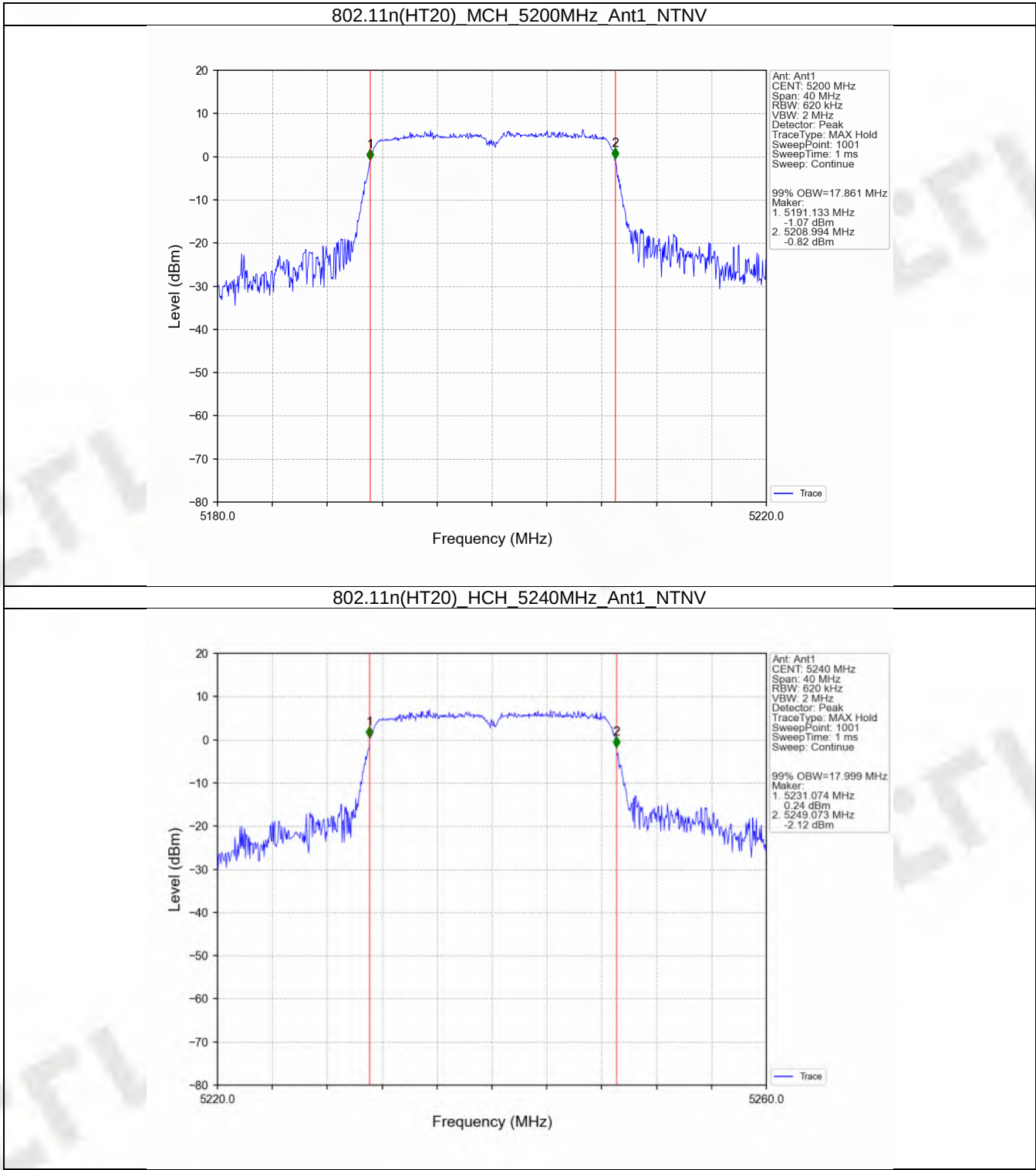
2.2.1 OBW



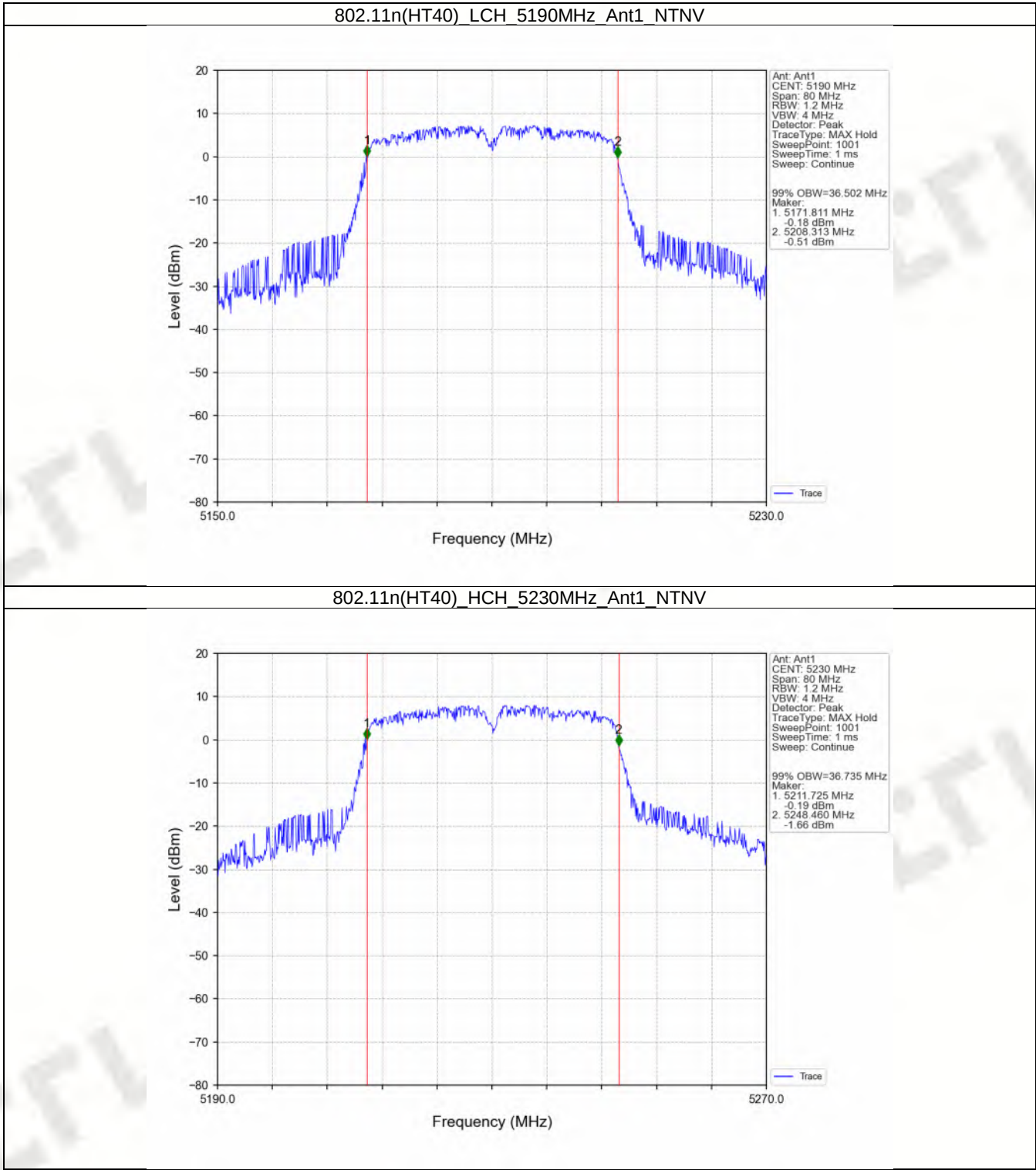
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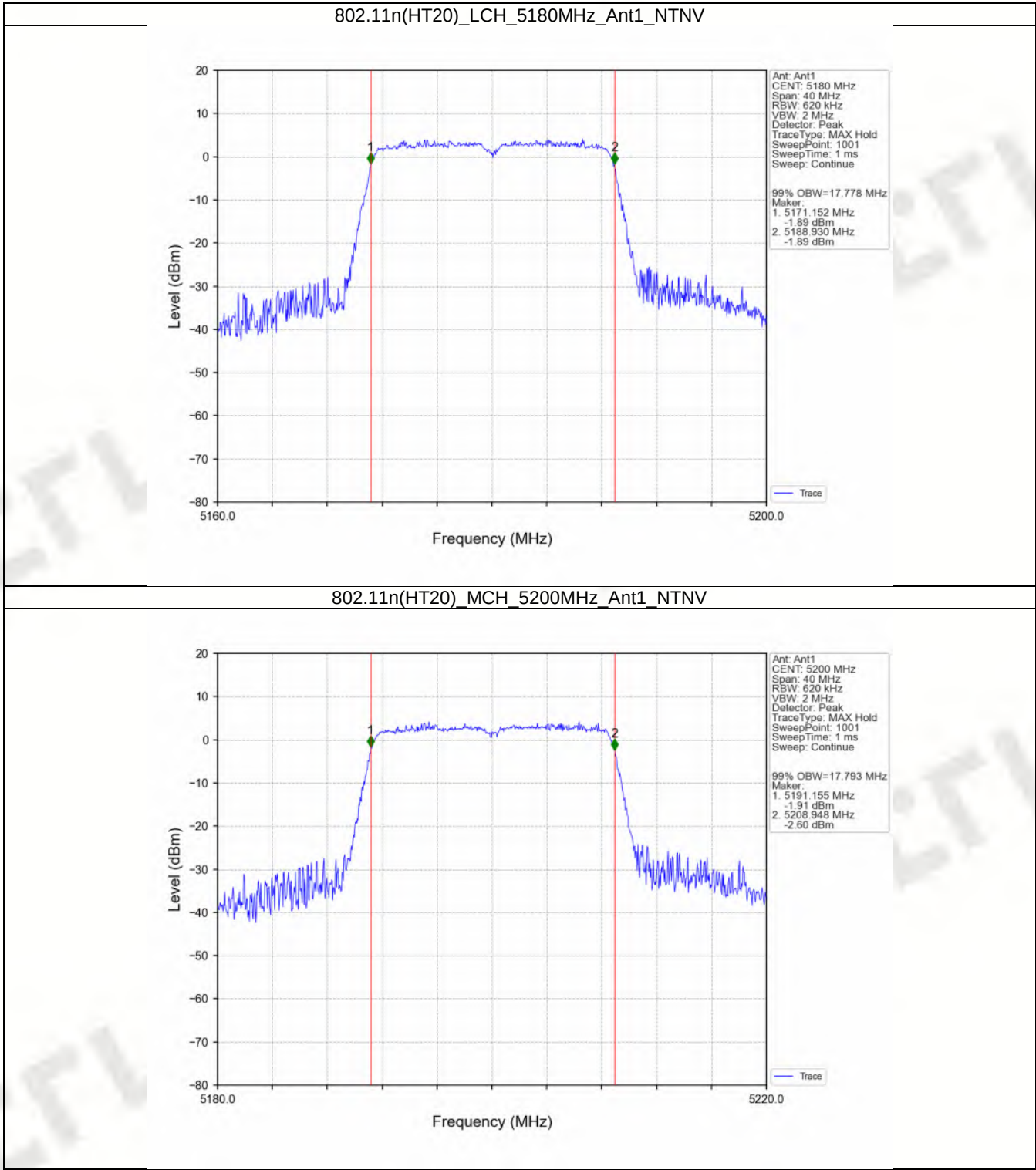
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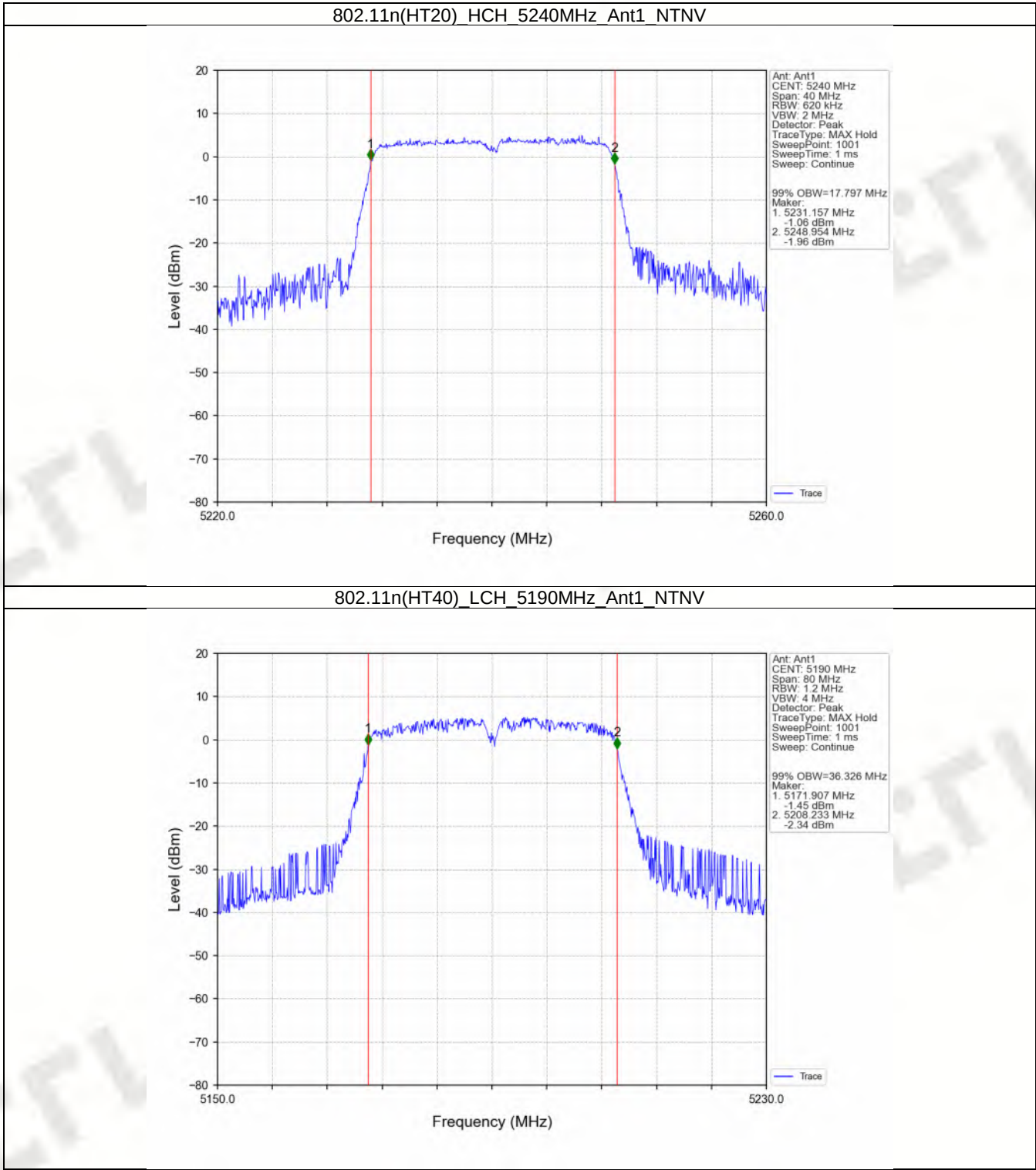
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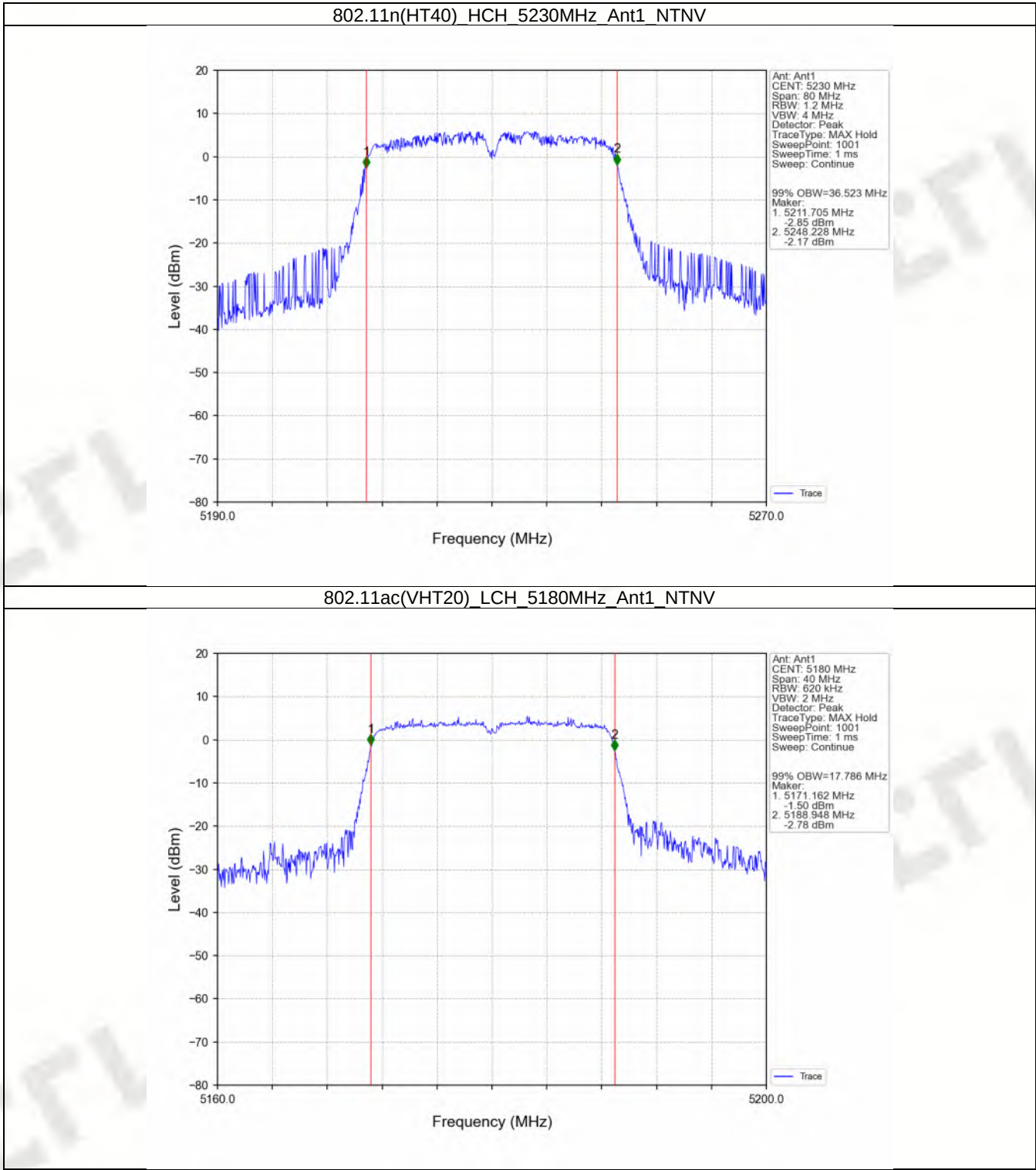
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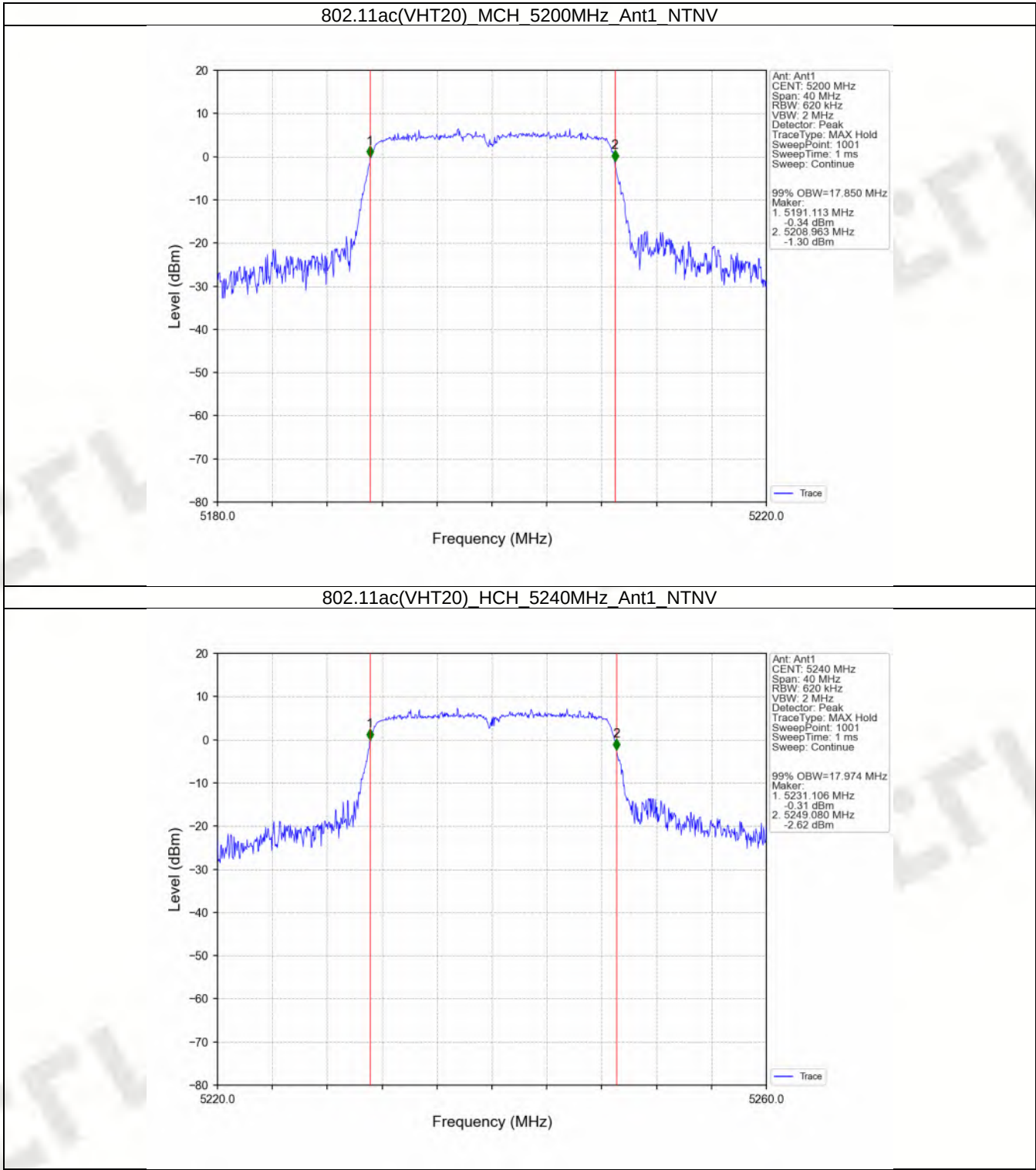
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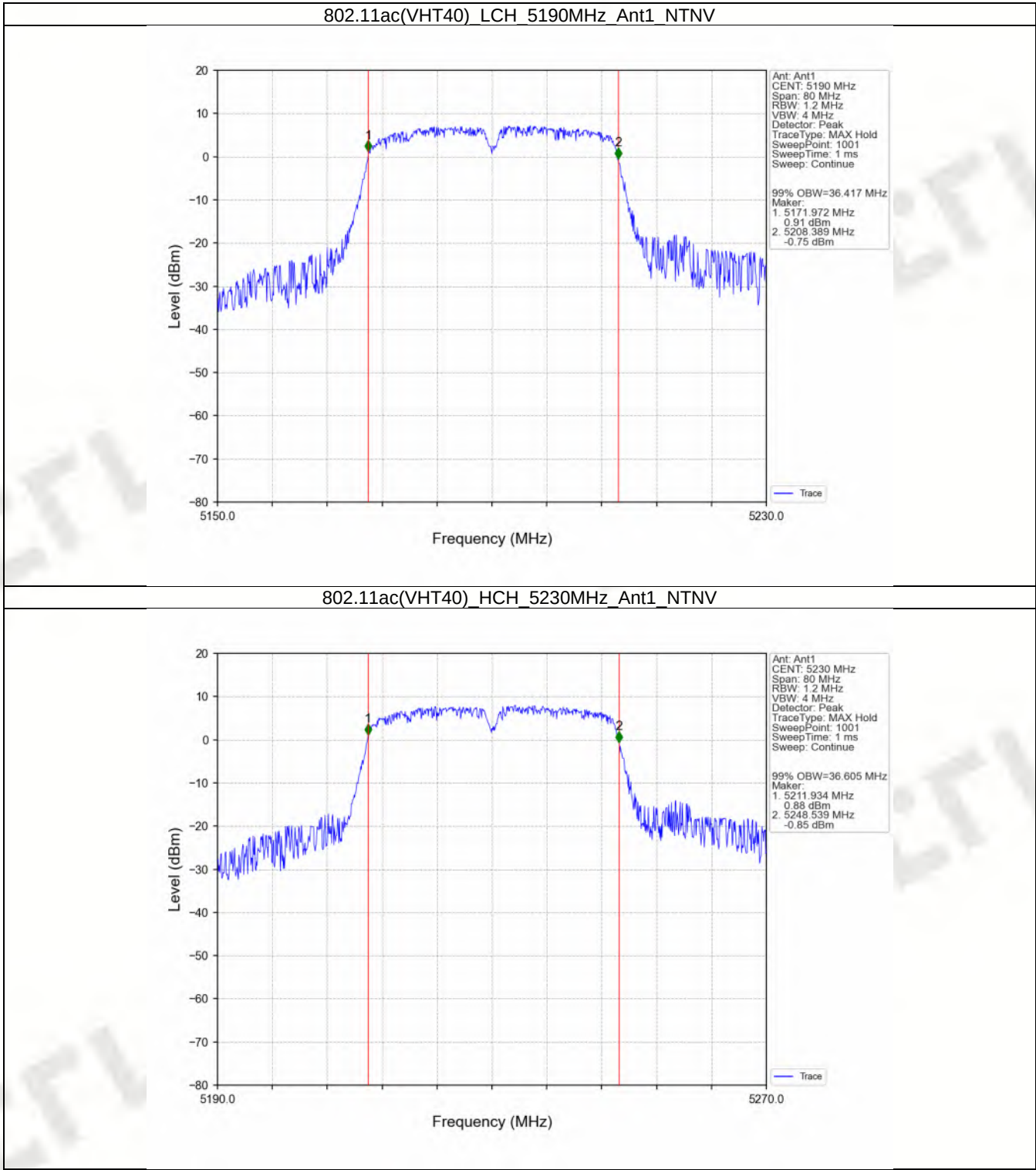
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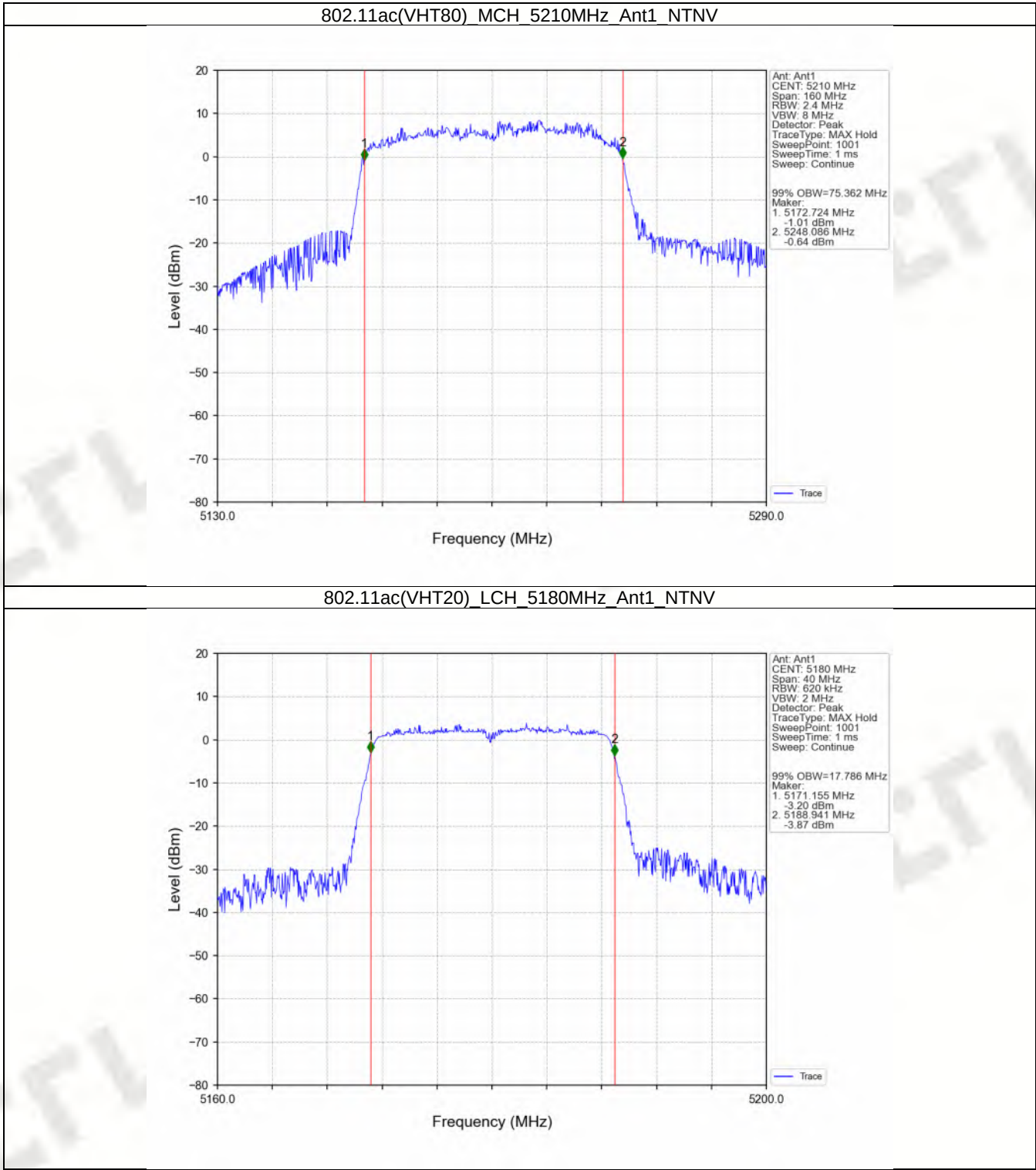
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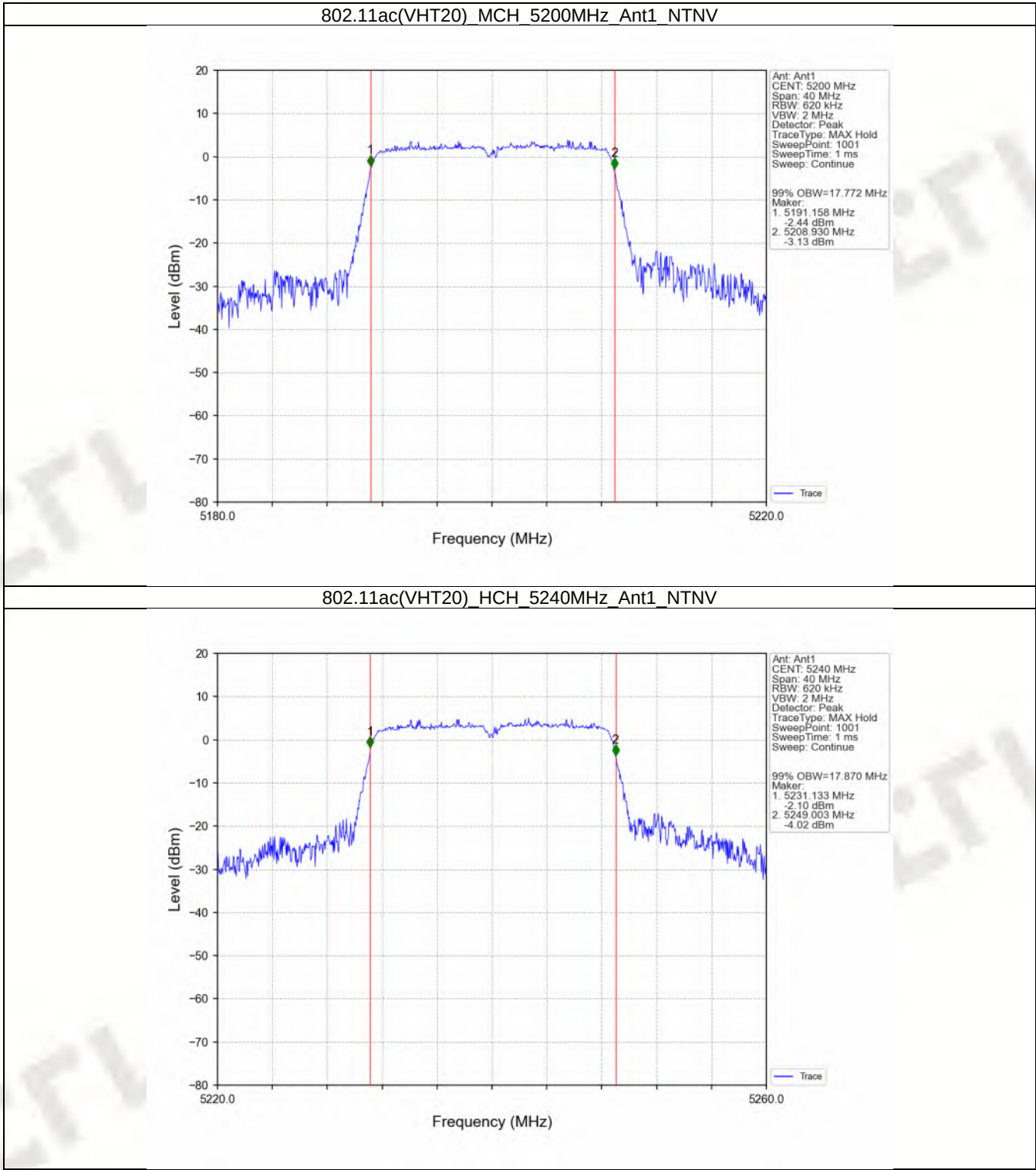
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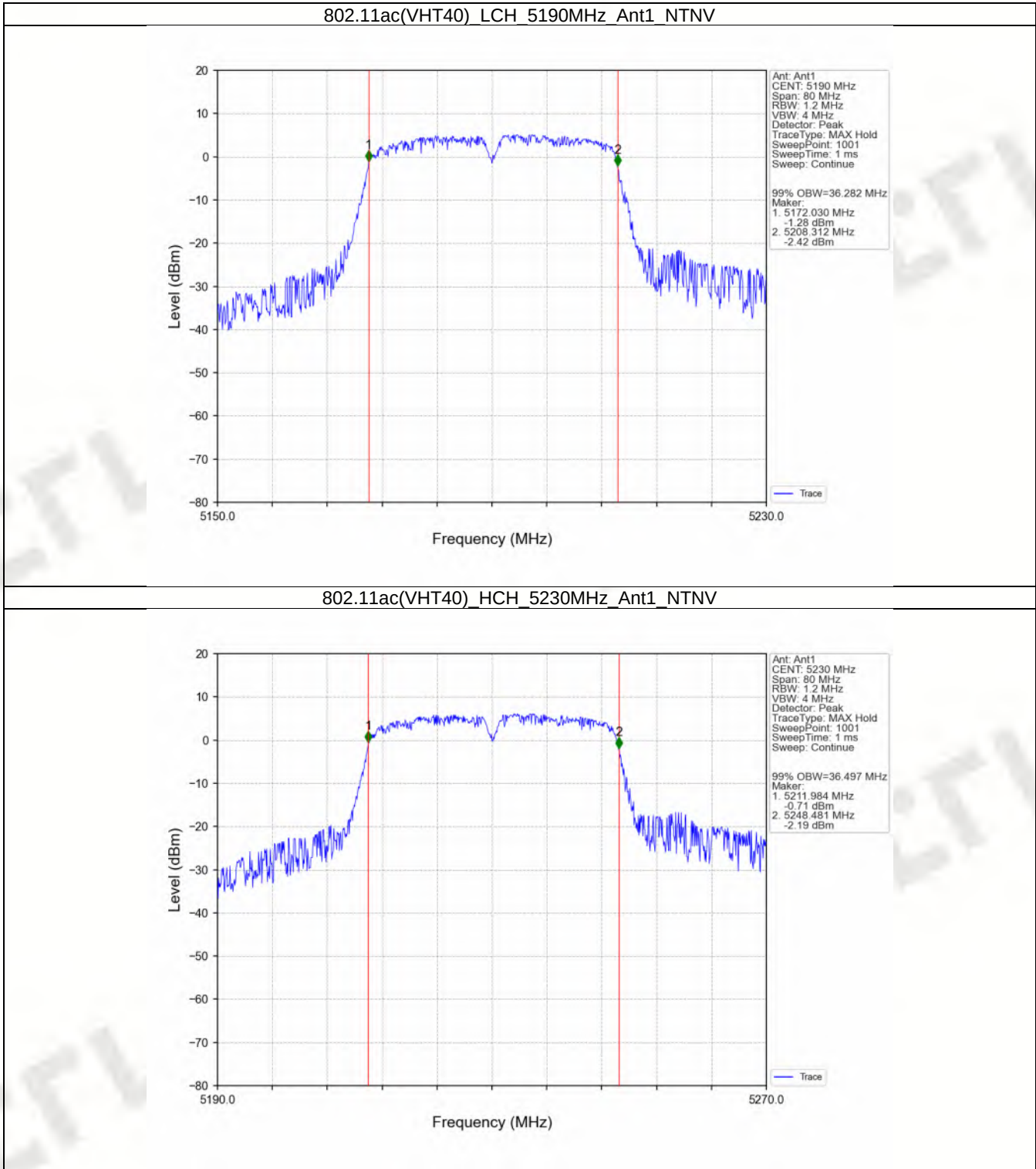
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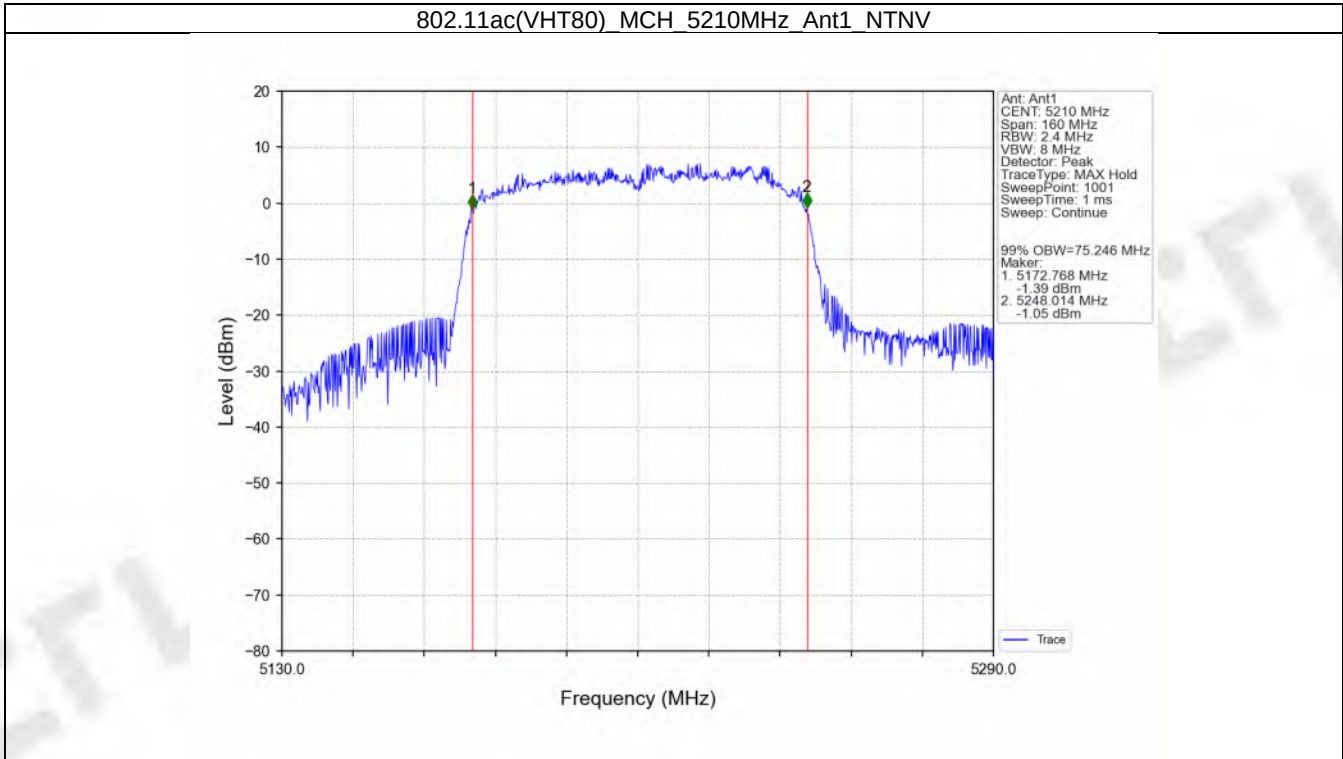
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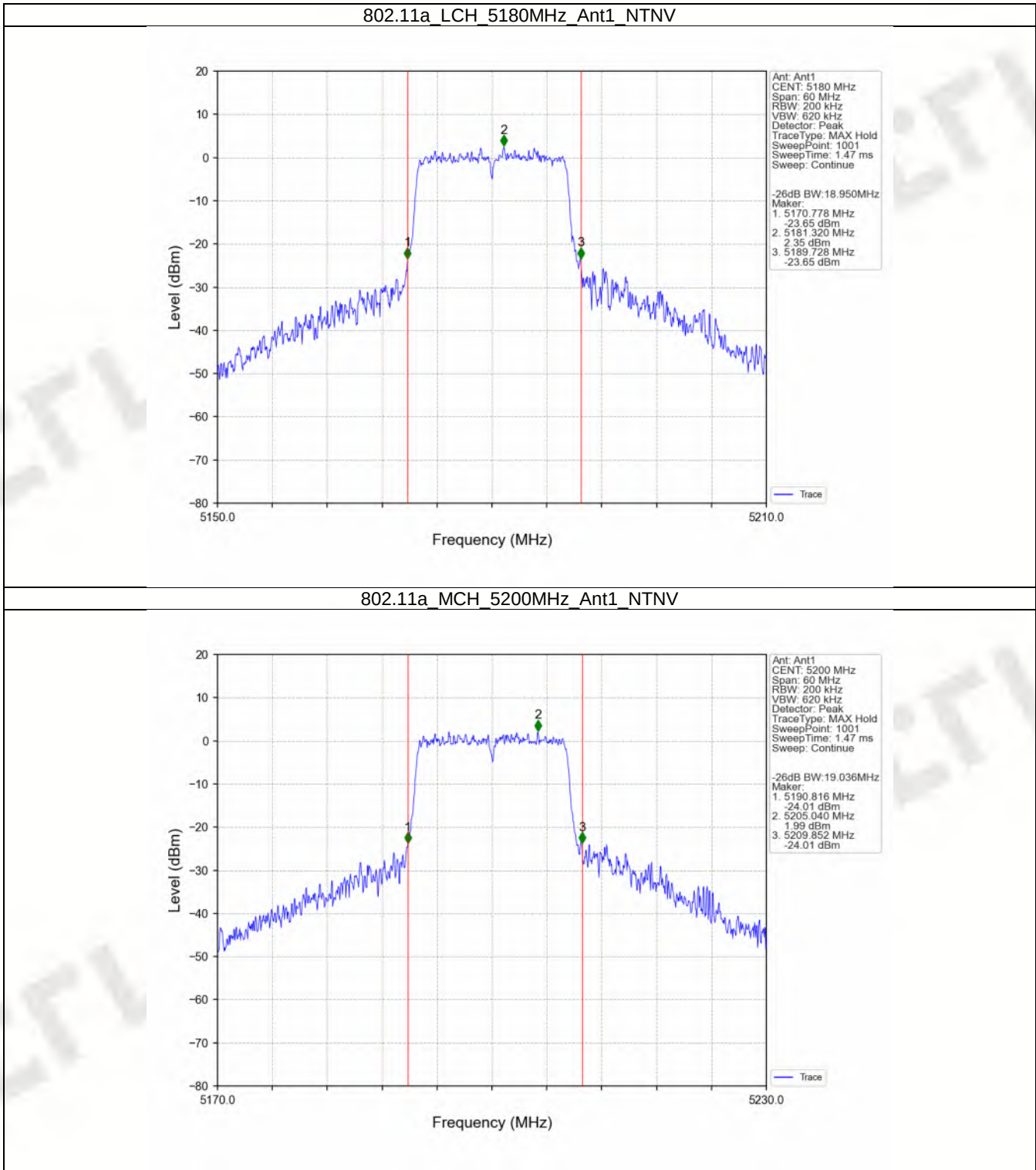


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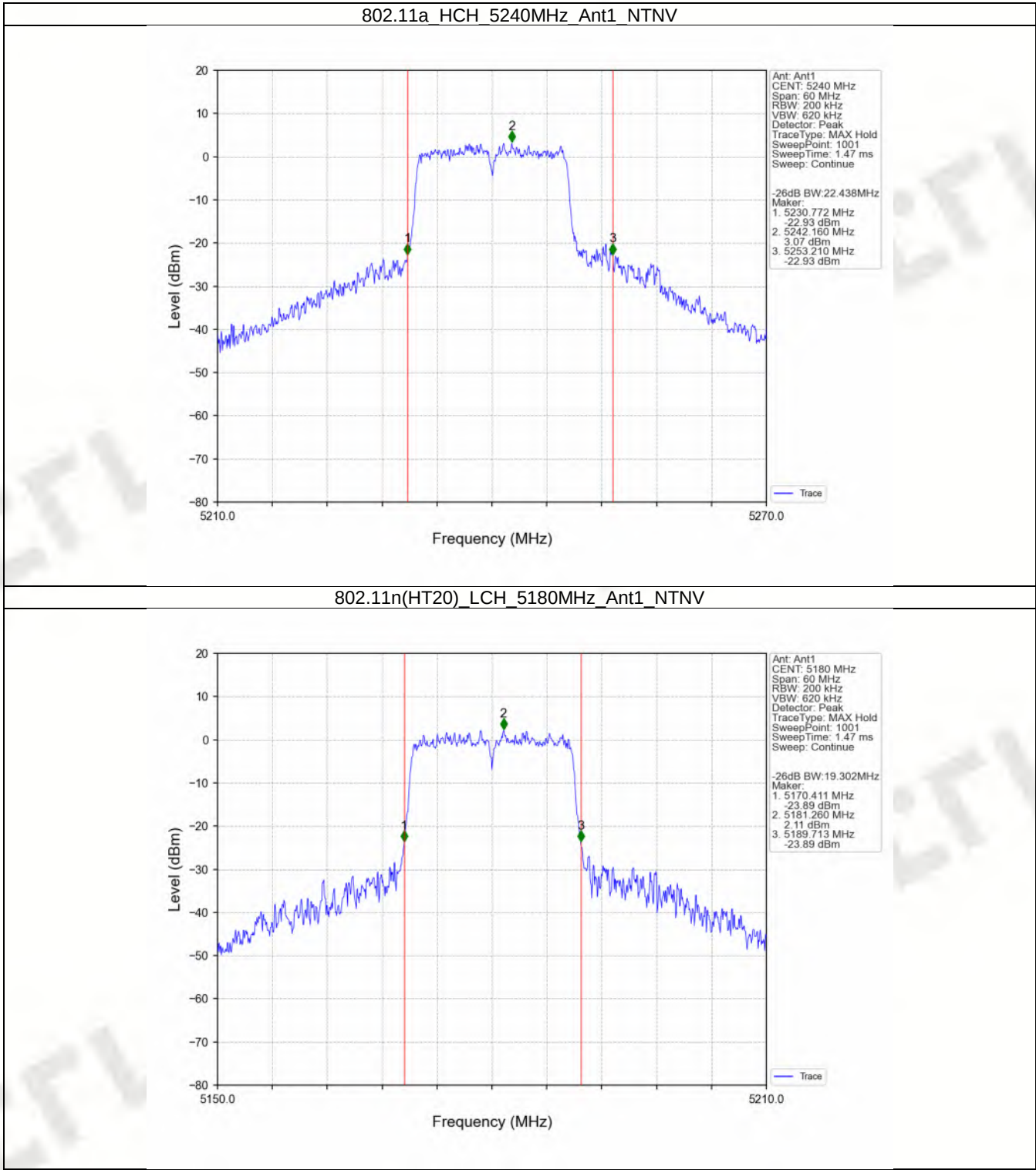


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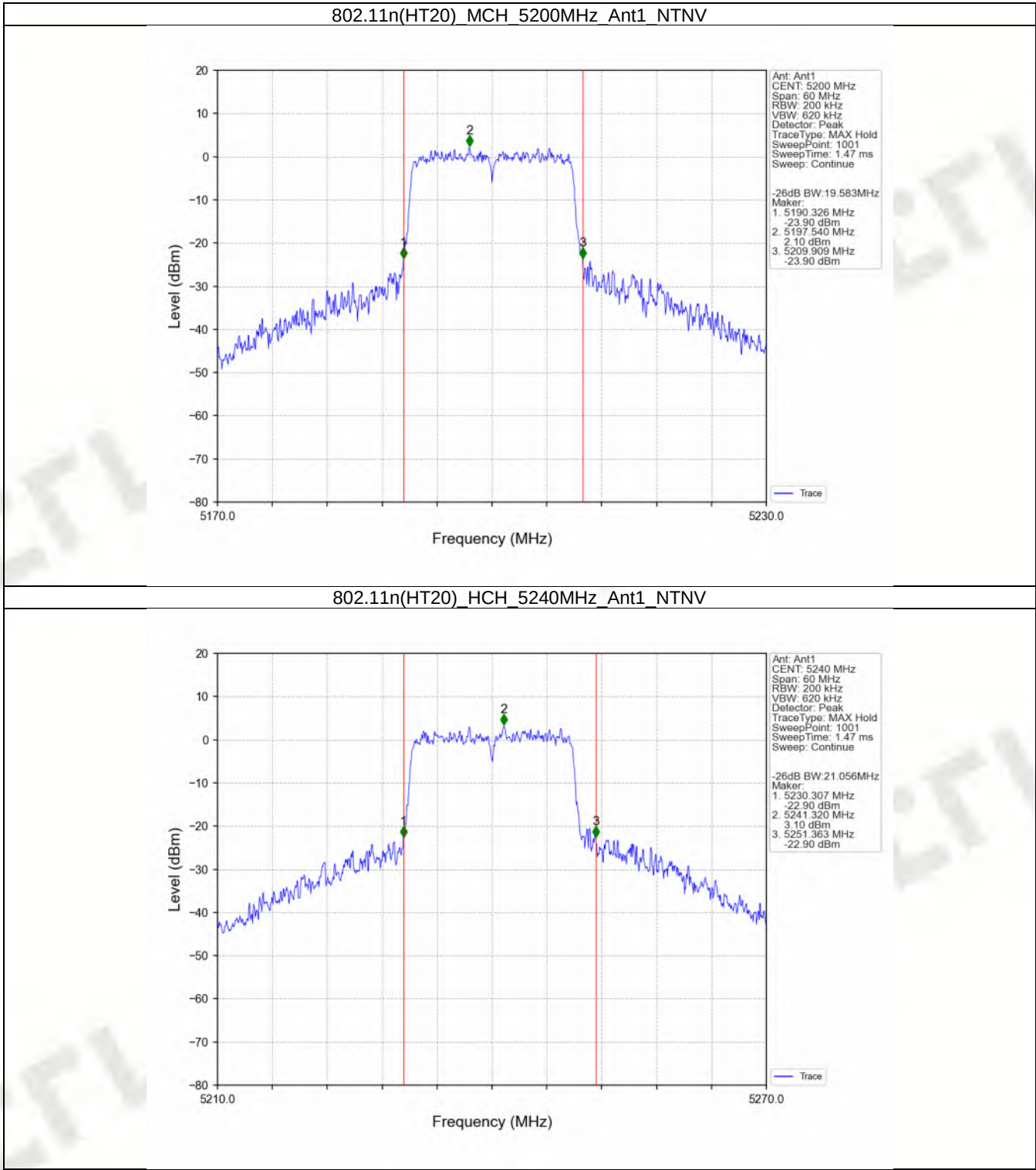
2.2.2 26dB BW



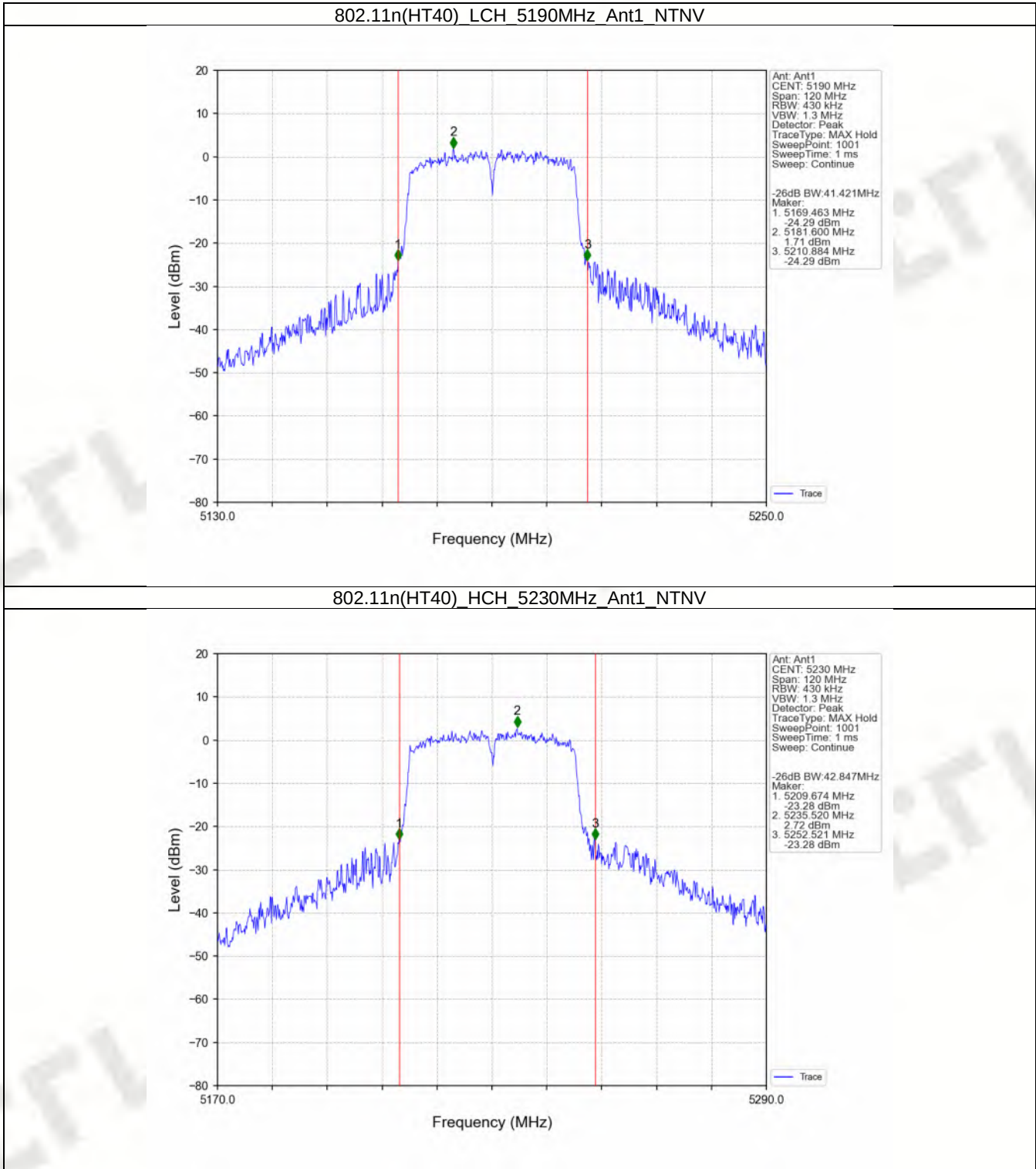
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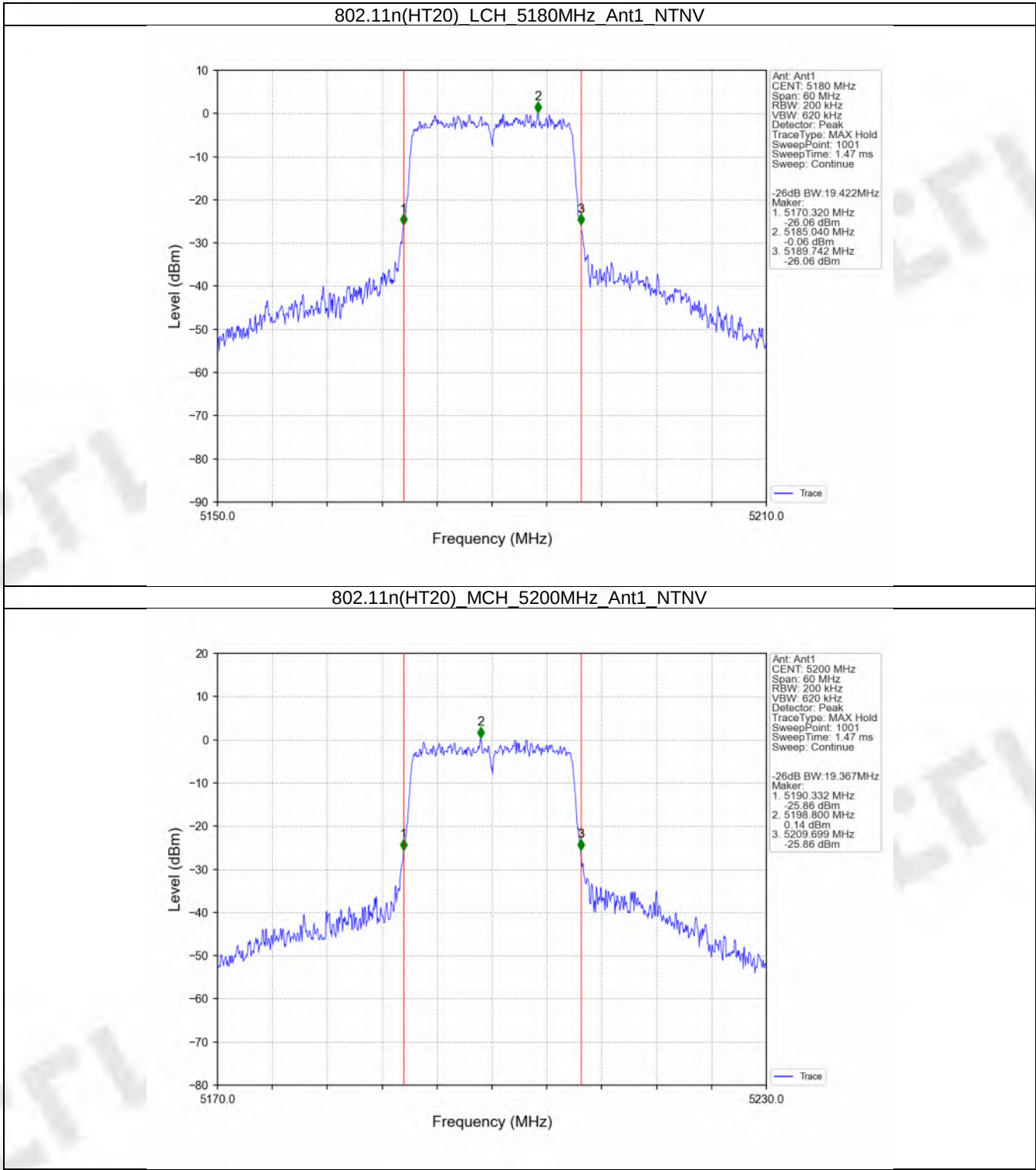
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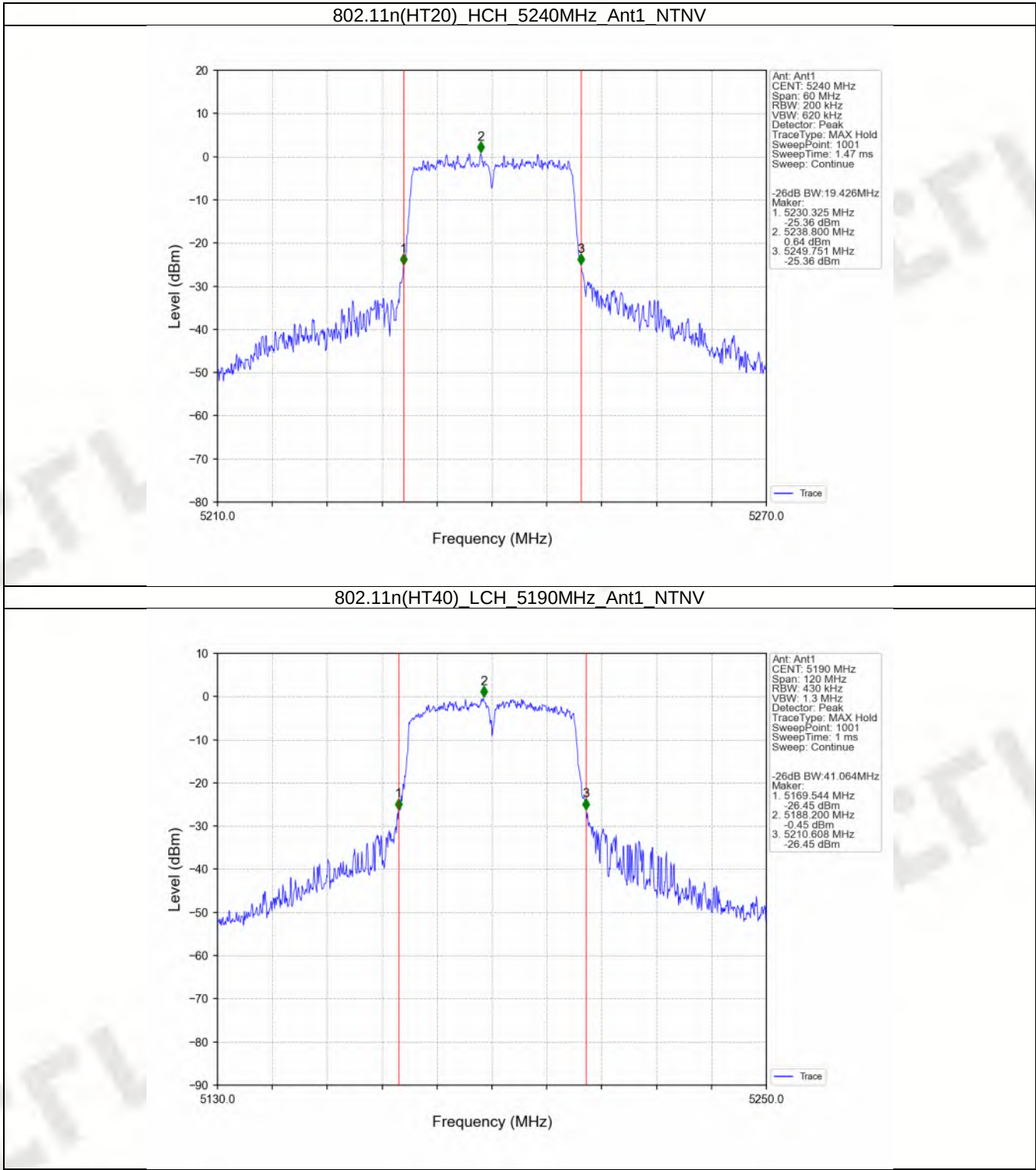
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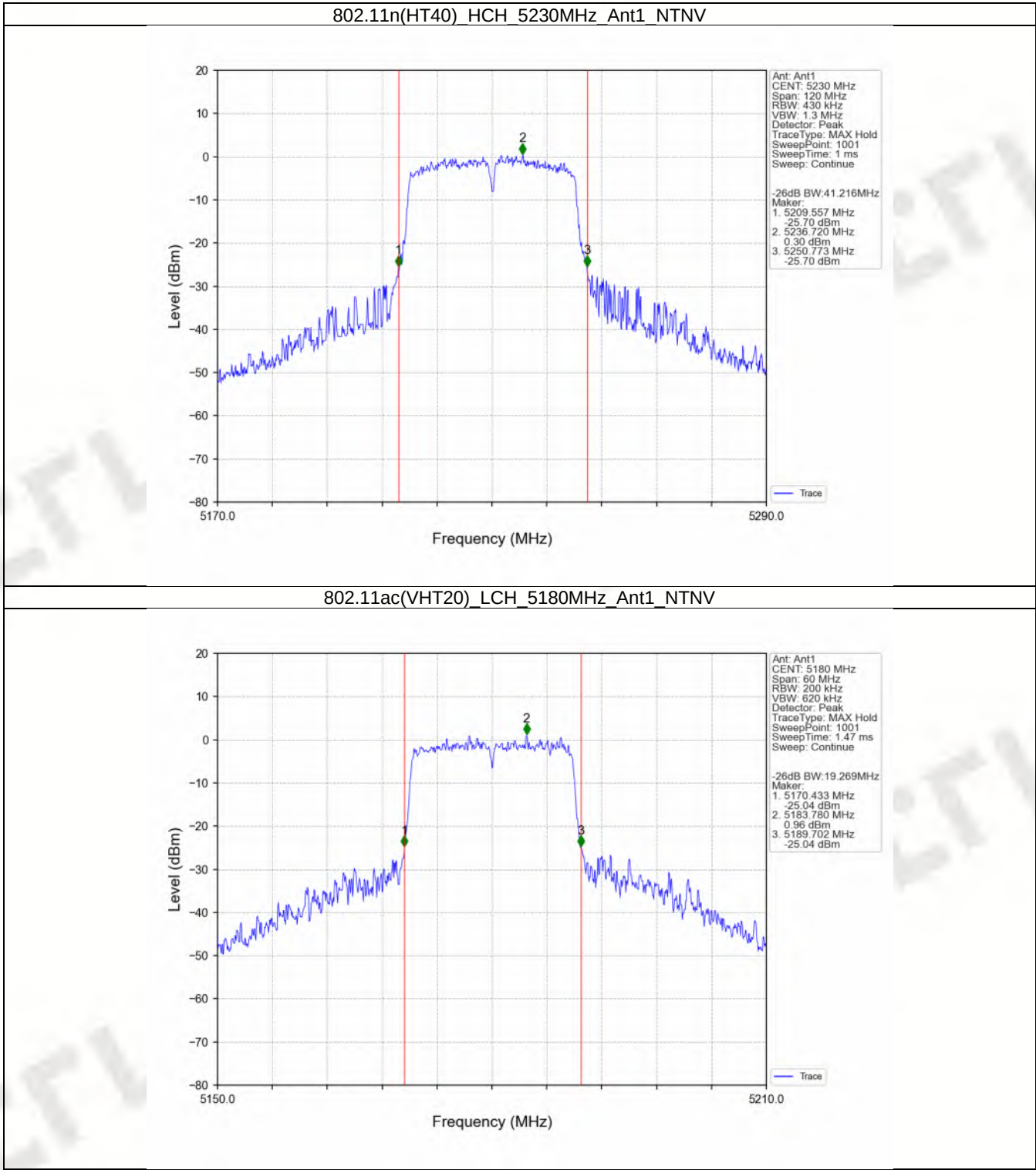
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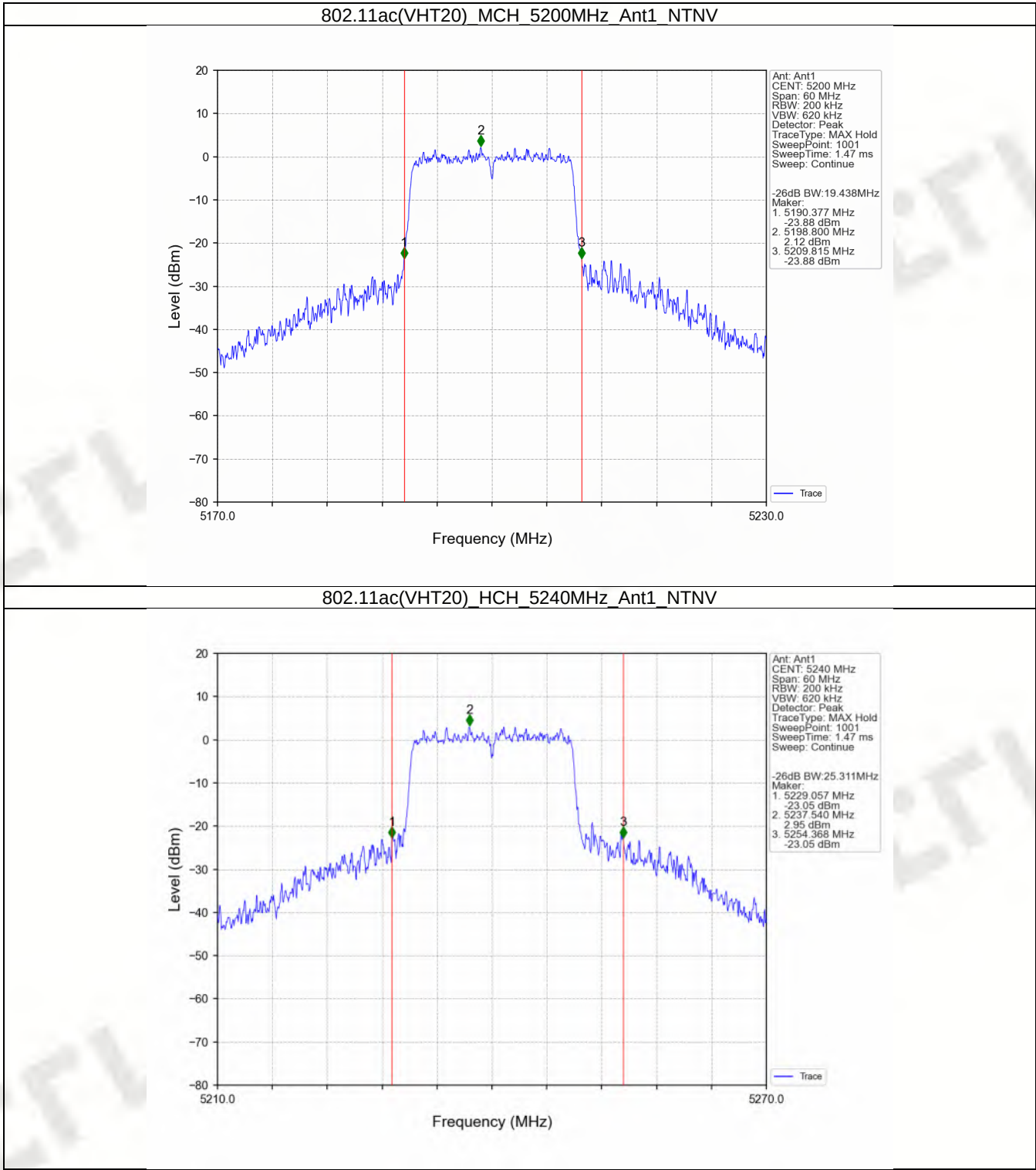
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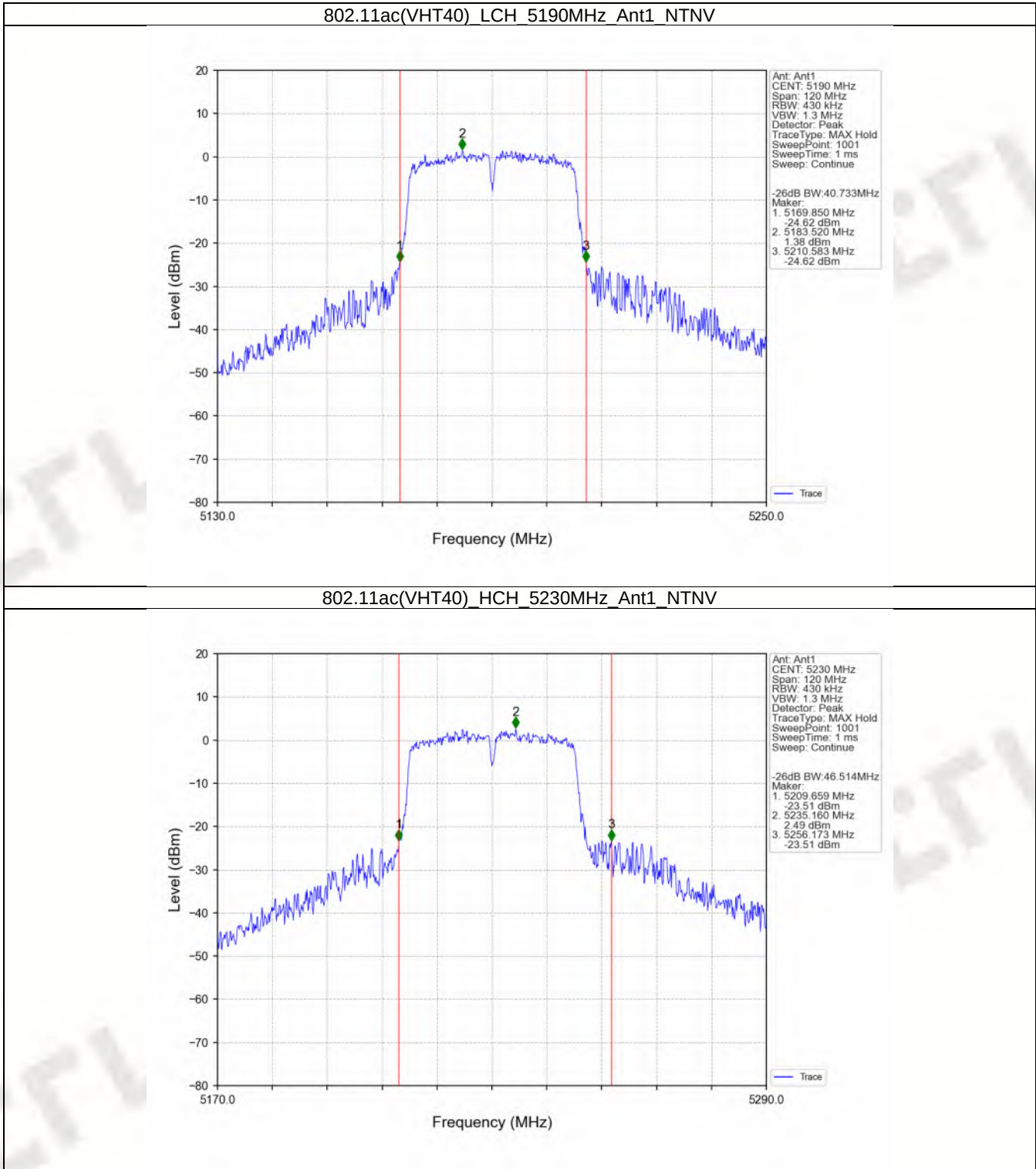
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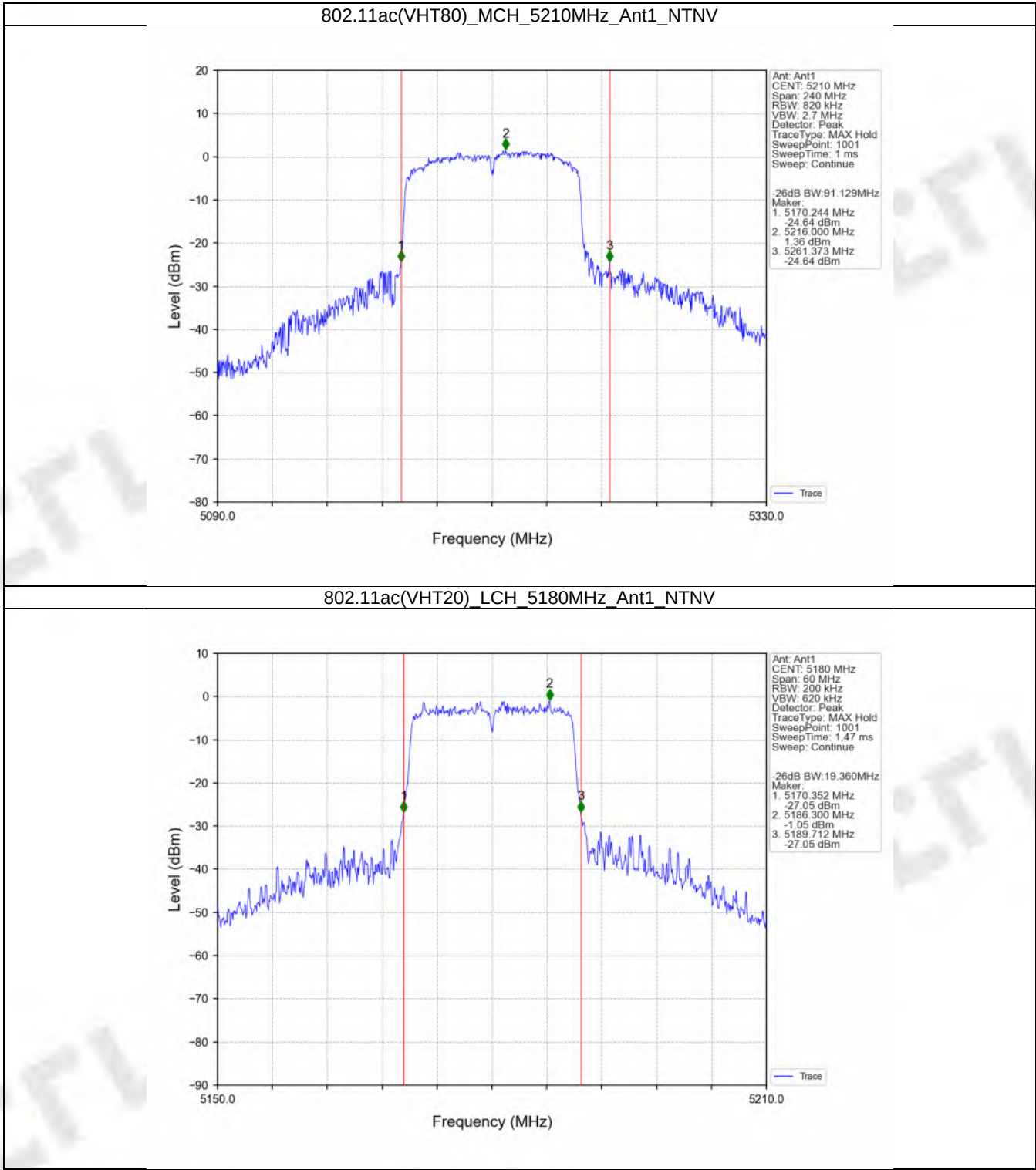
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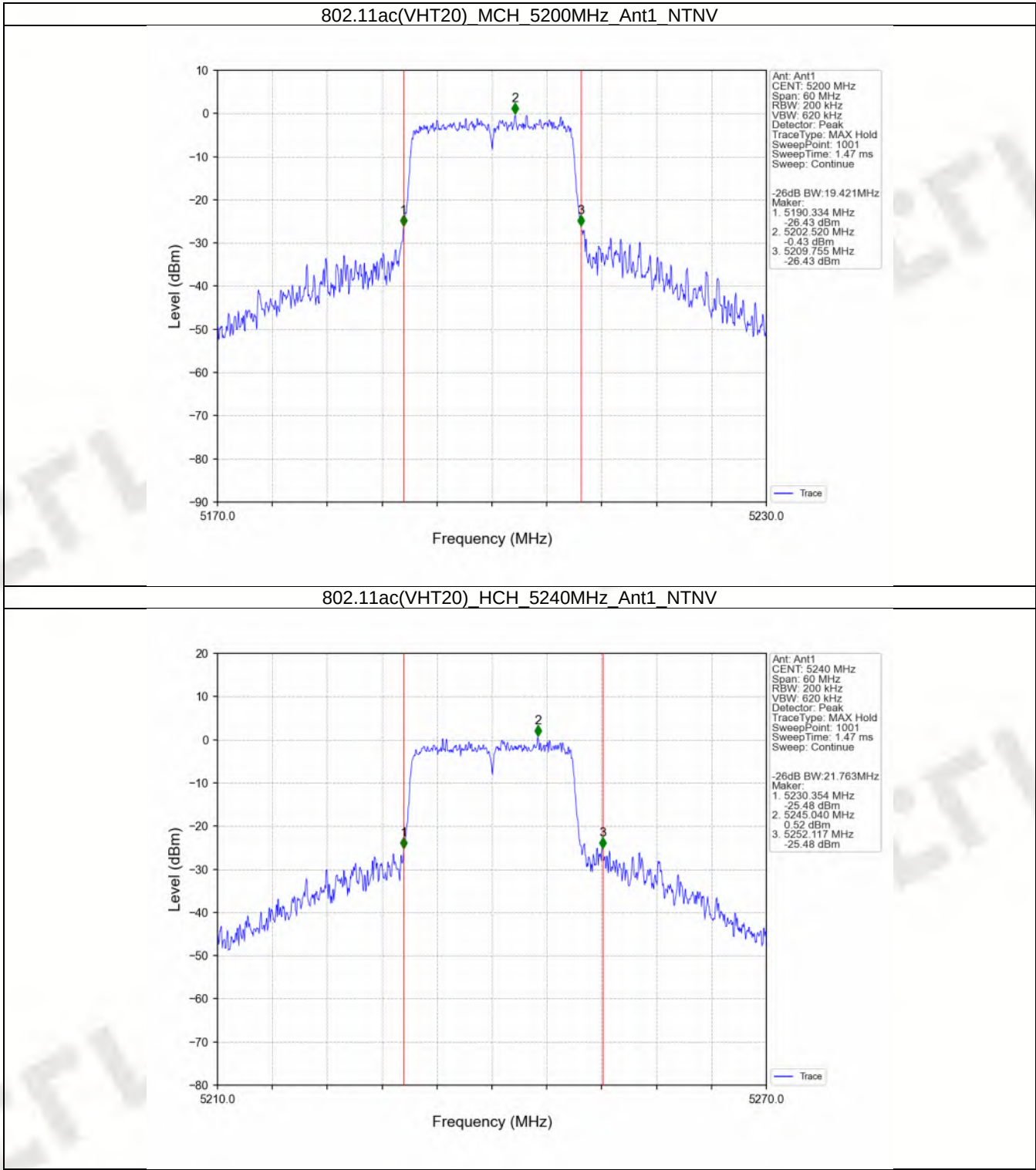
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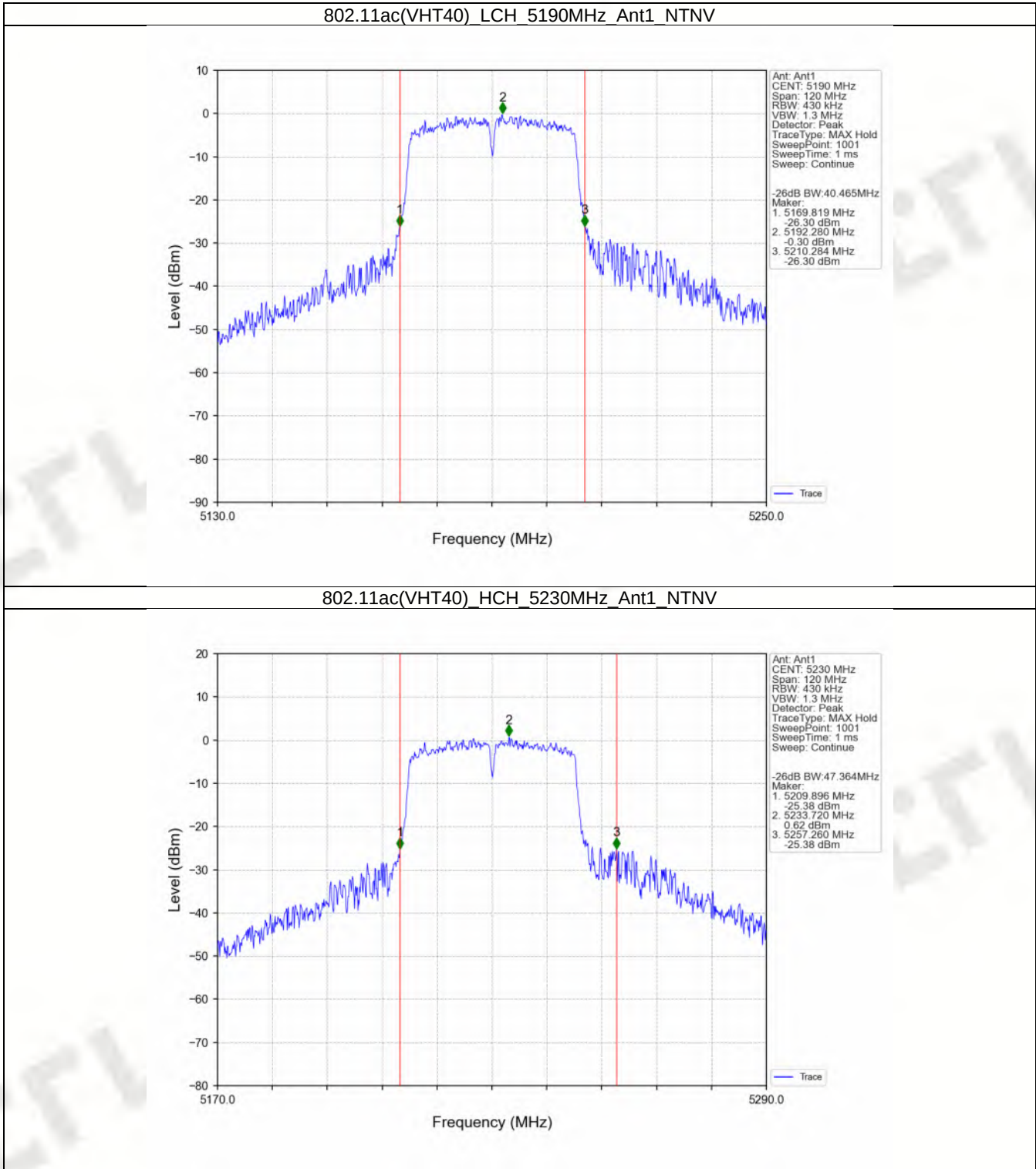
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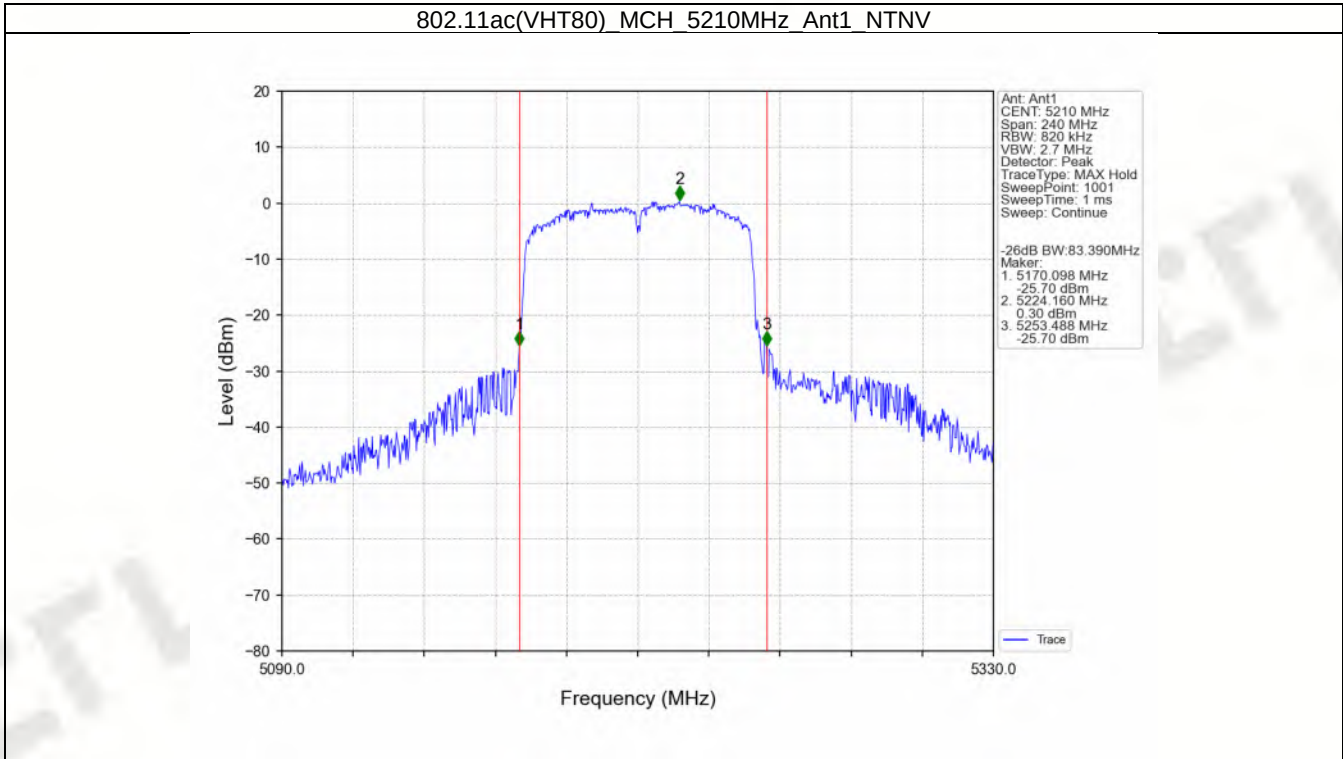
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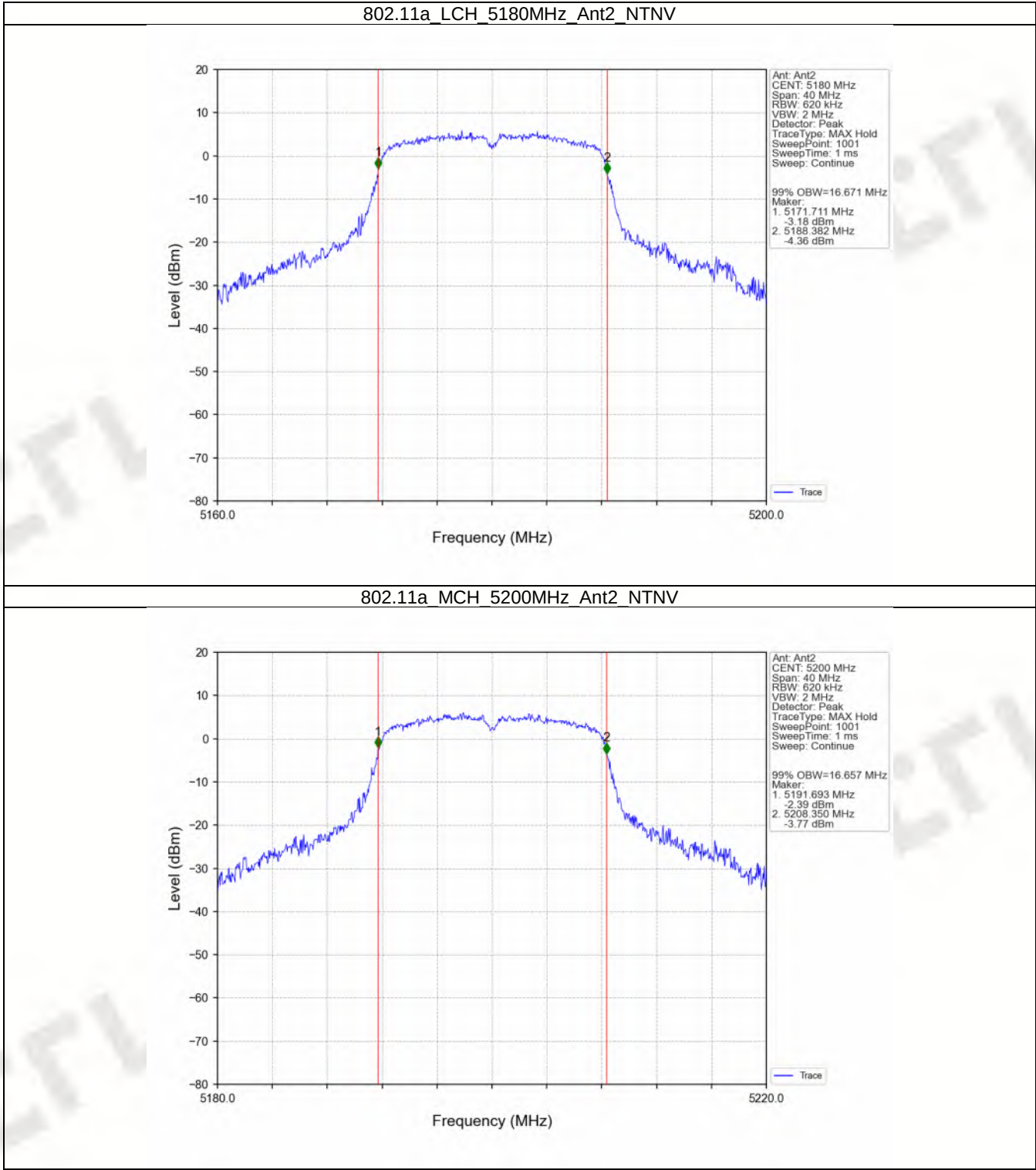


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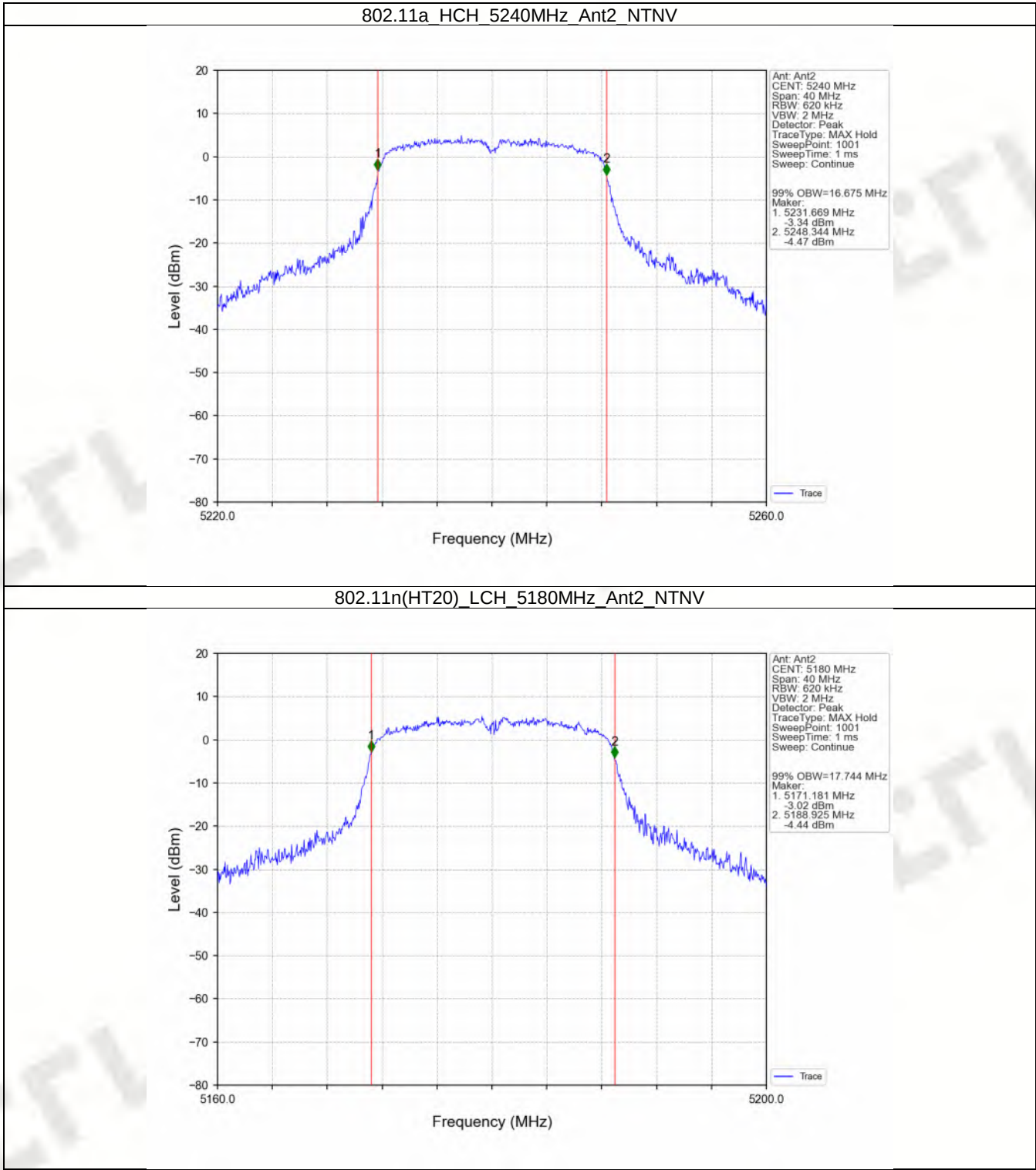


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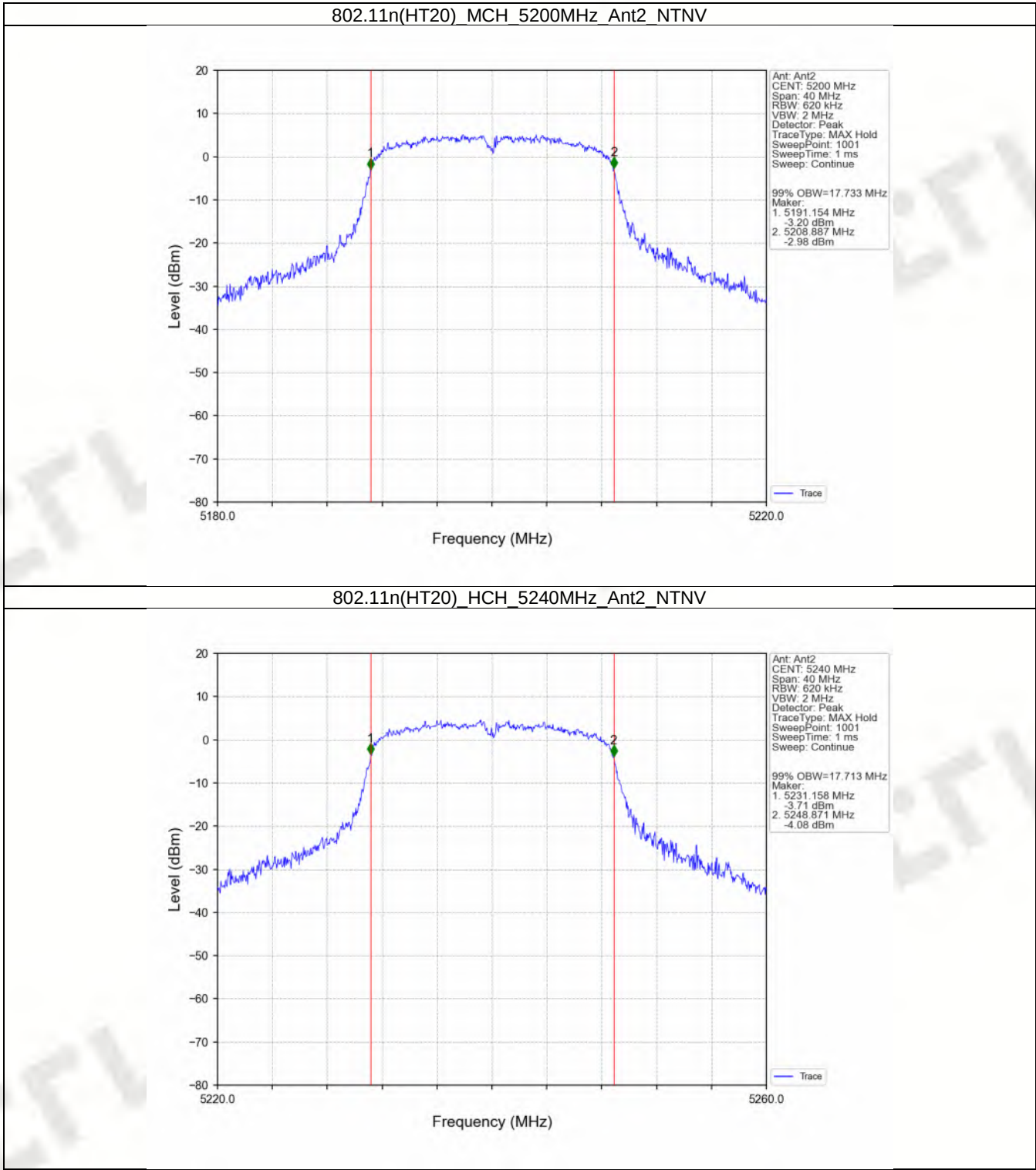
2.2.3 OBW



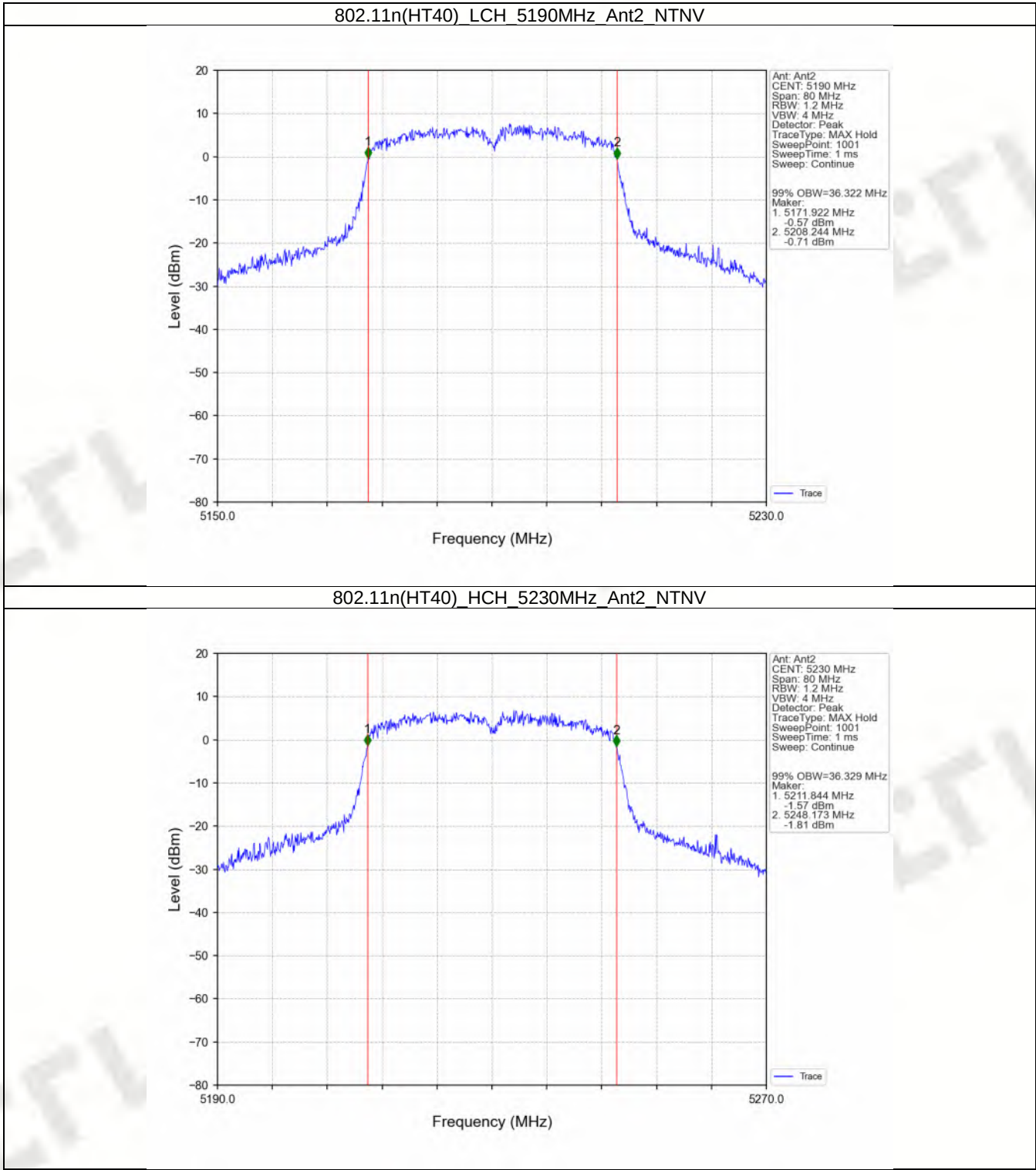
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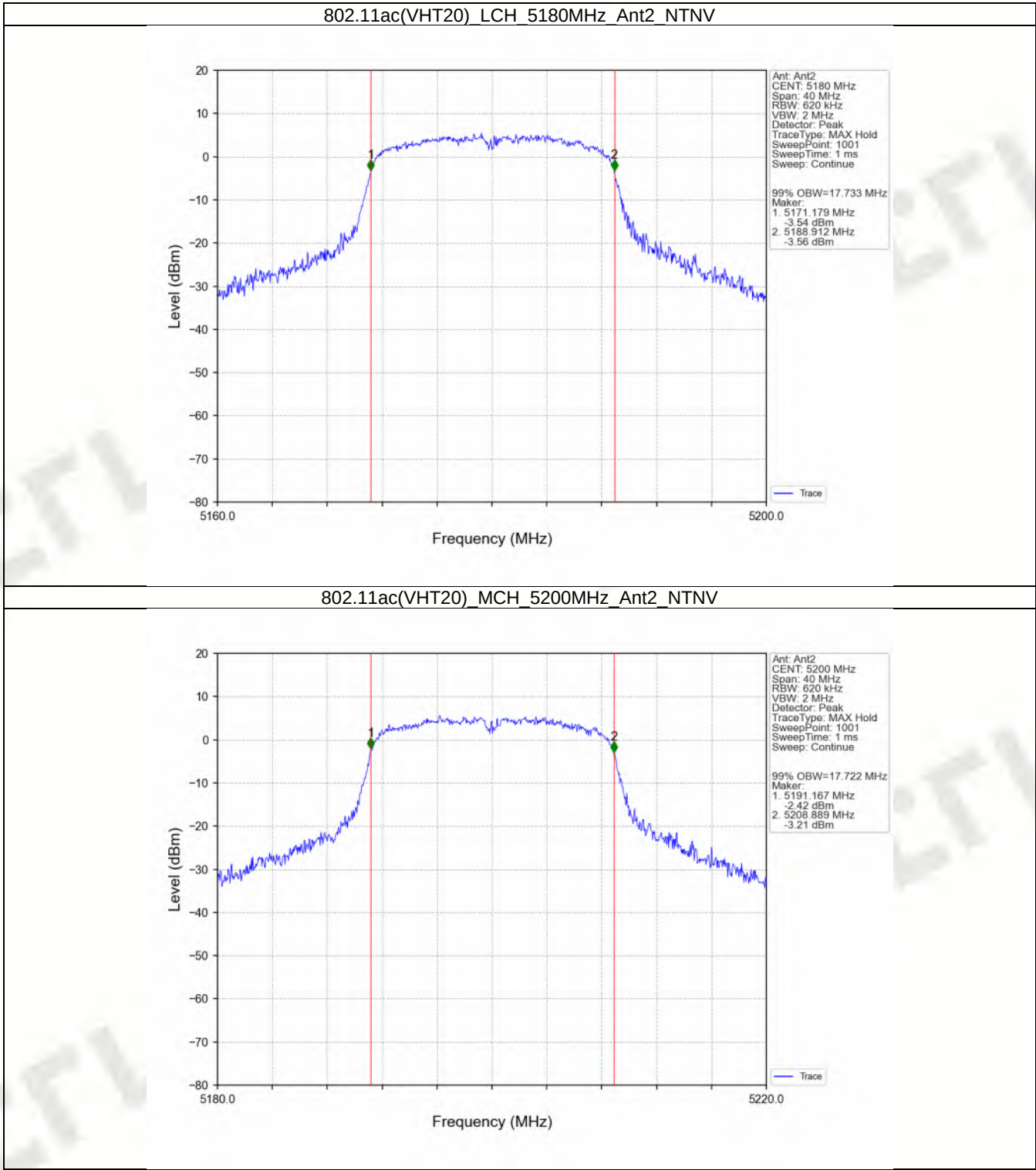
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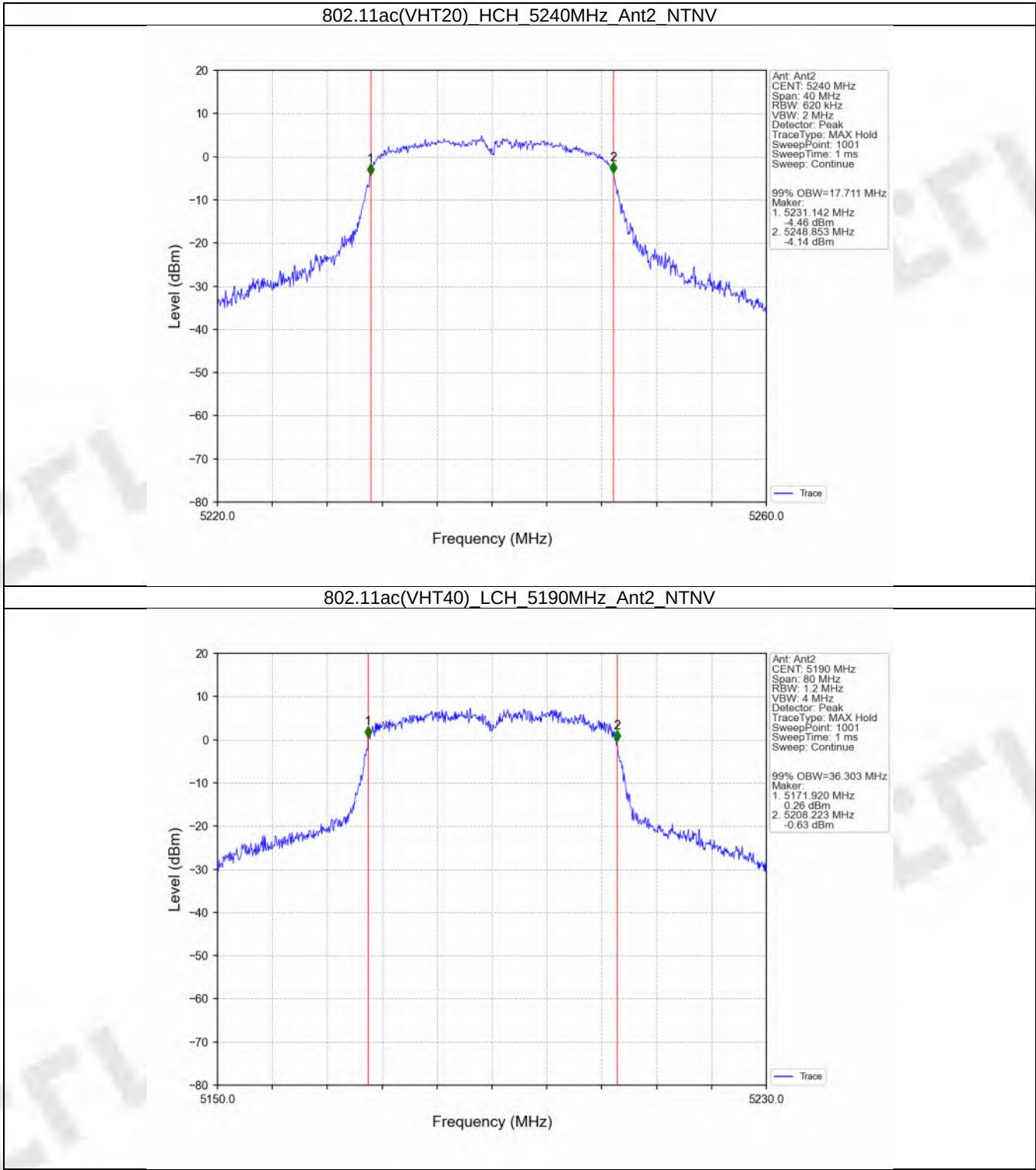
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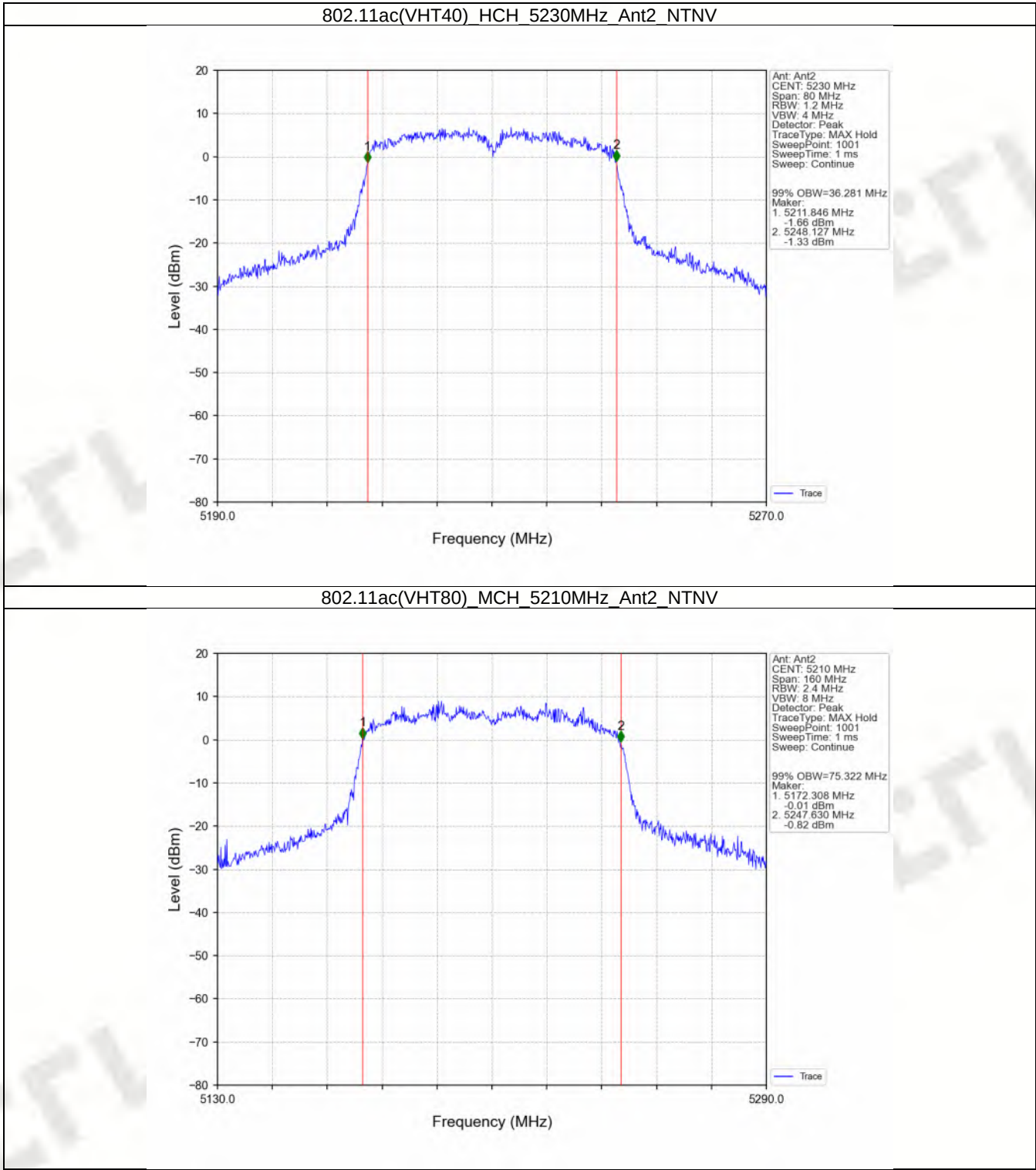
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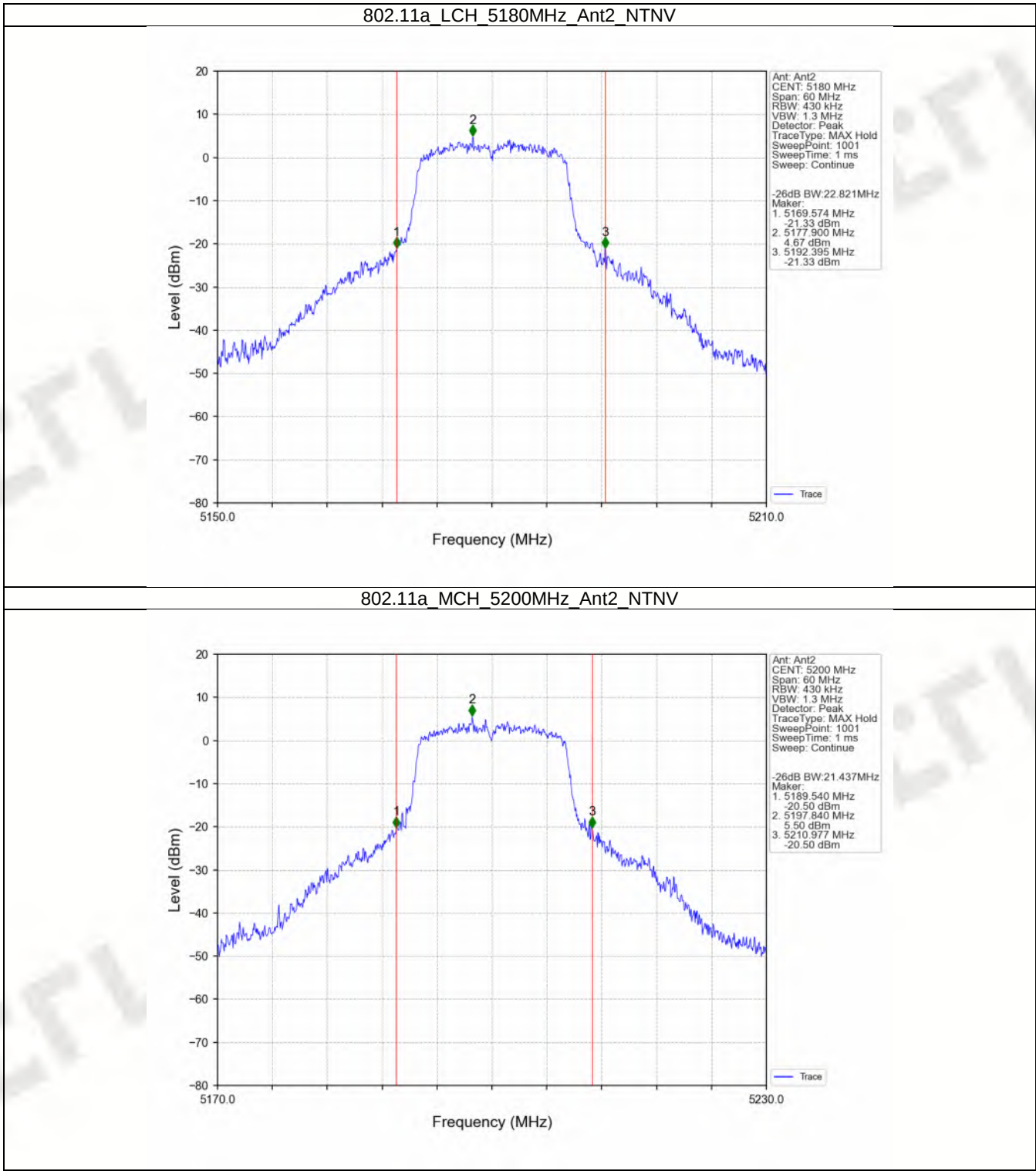


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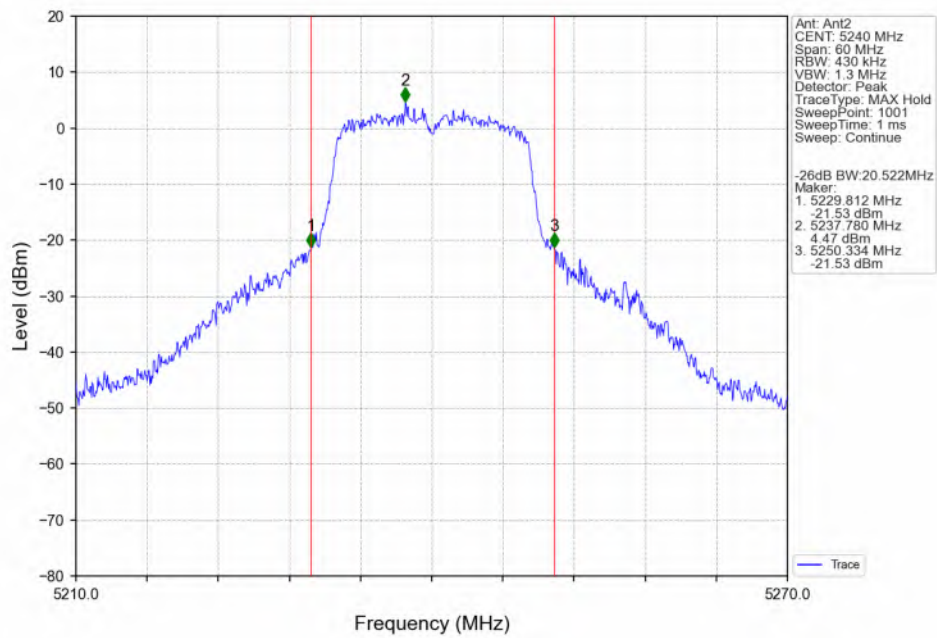
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2.2.4 26dB BW

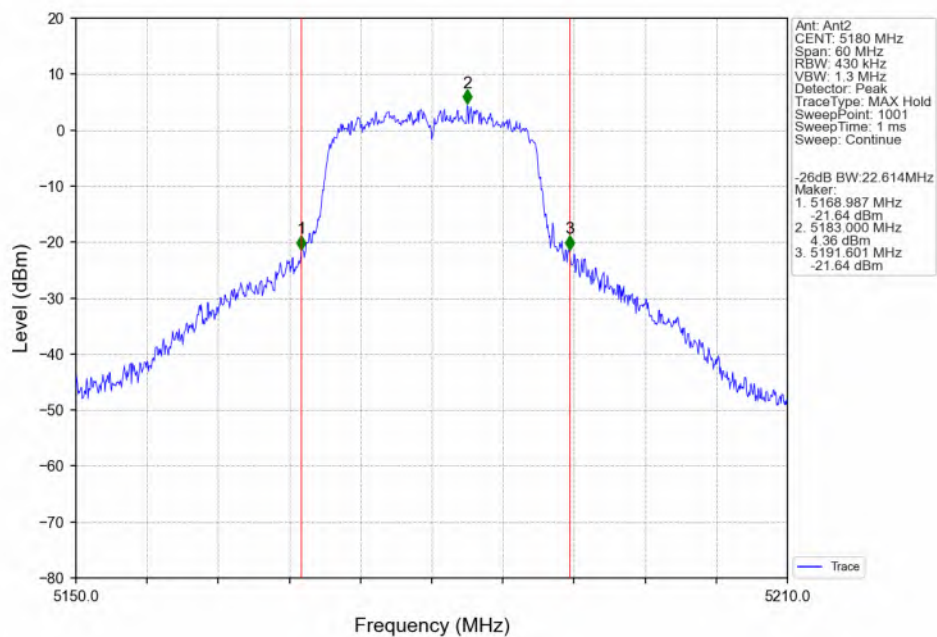


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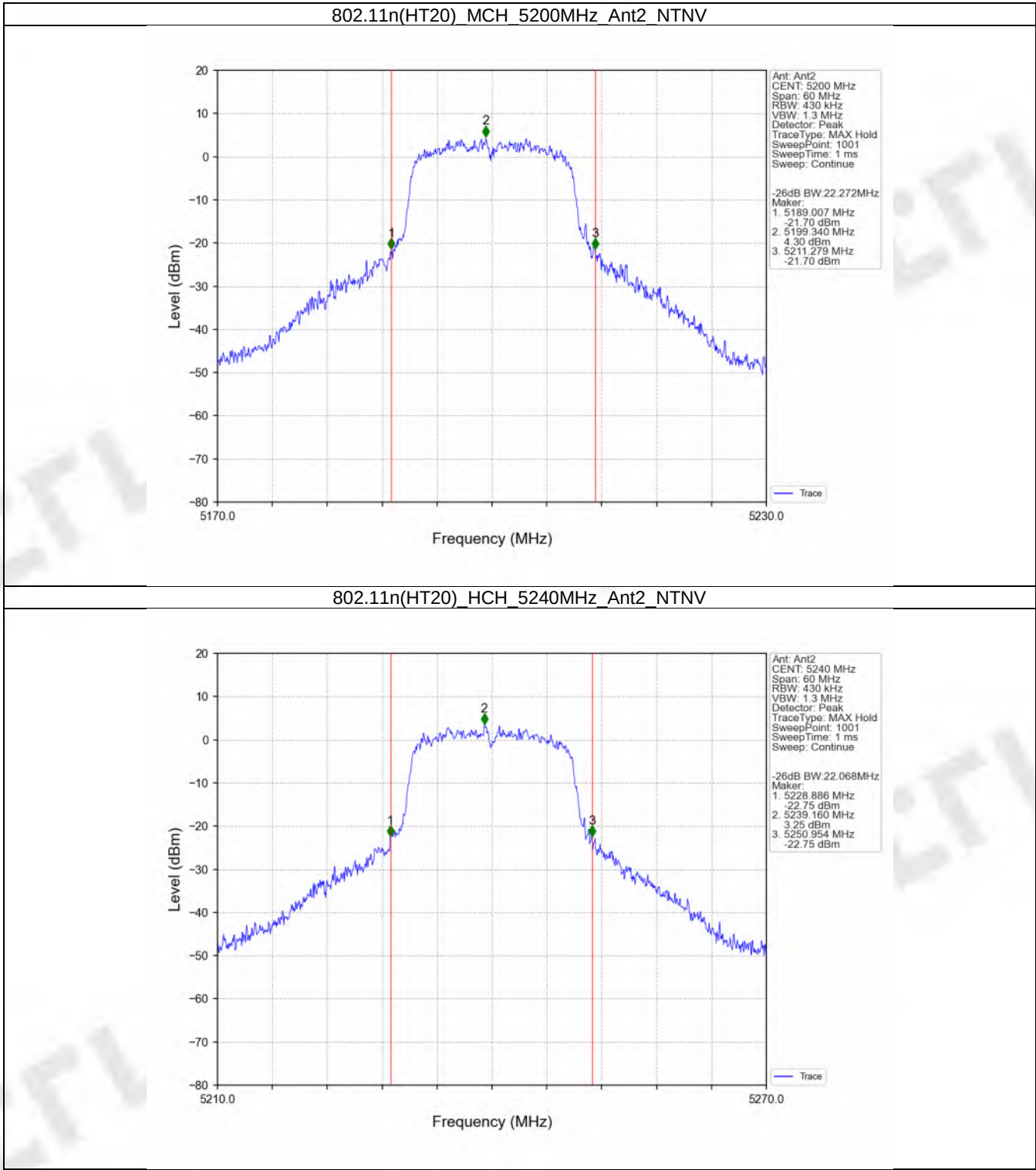
802.11a HCH 5240MHz Ant2 NTN



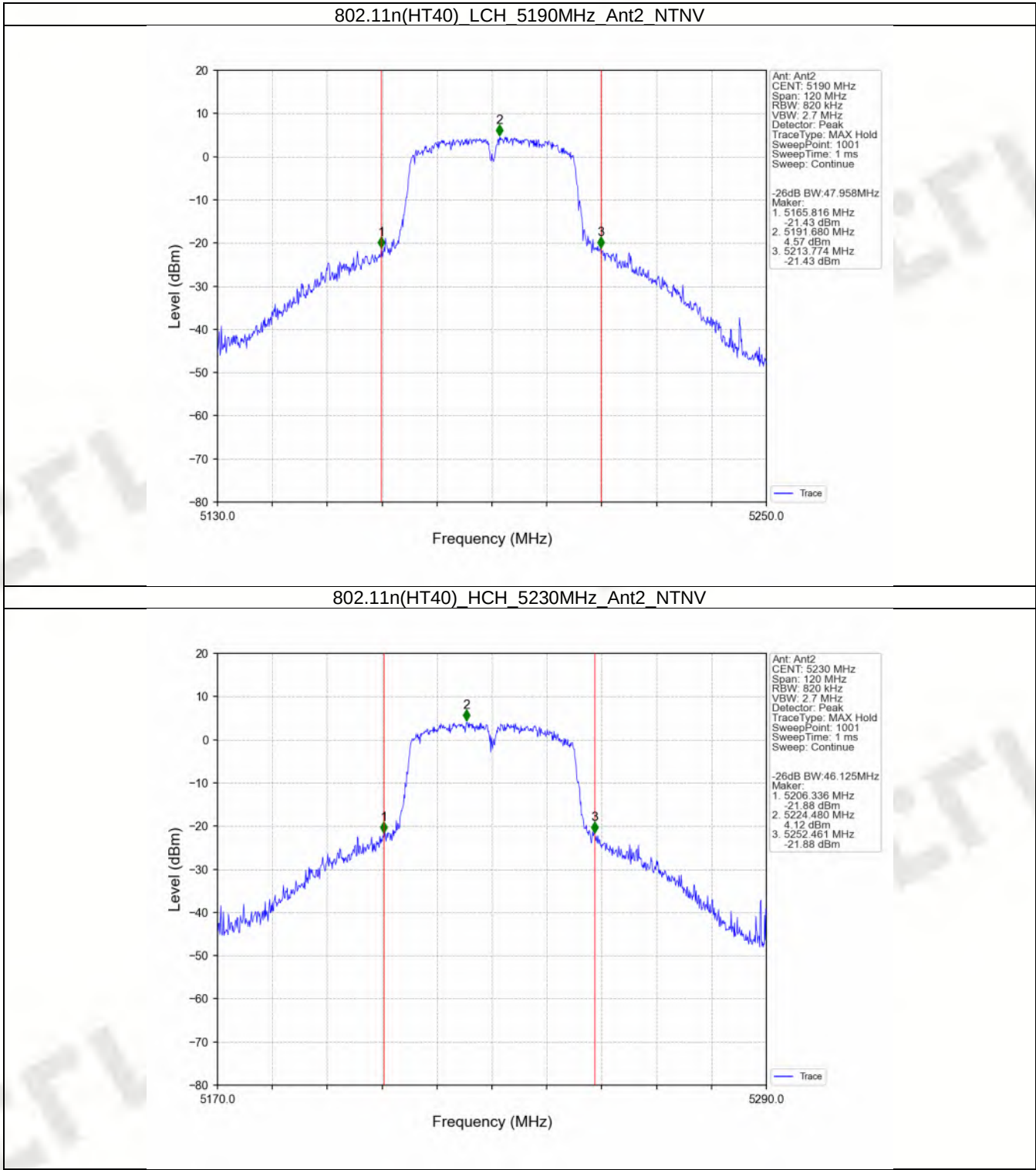
802.11n(HT20) LCH 5180MHz Ant2 NTN



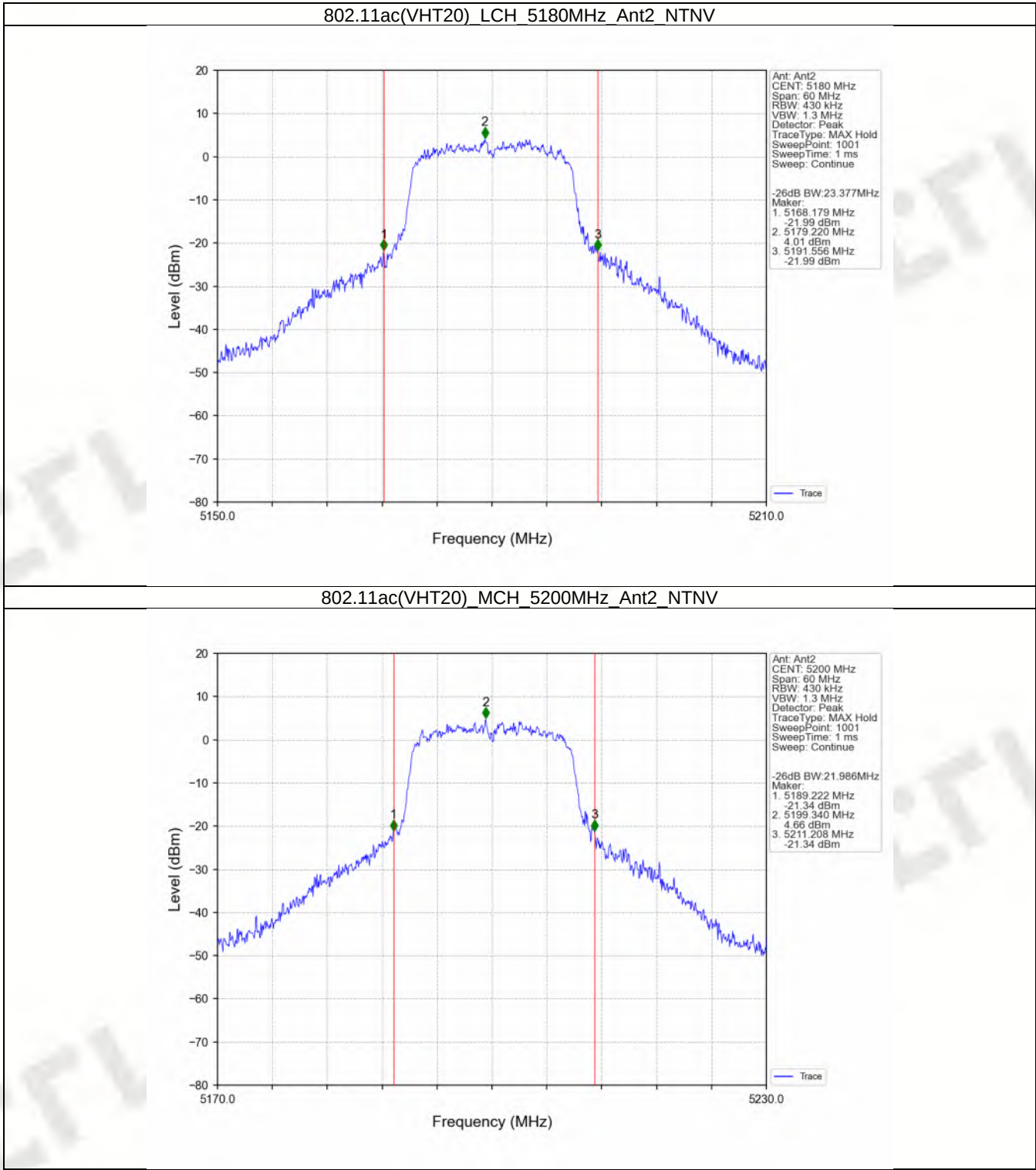
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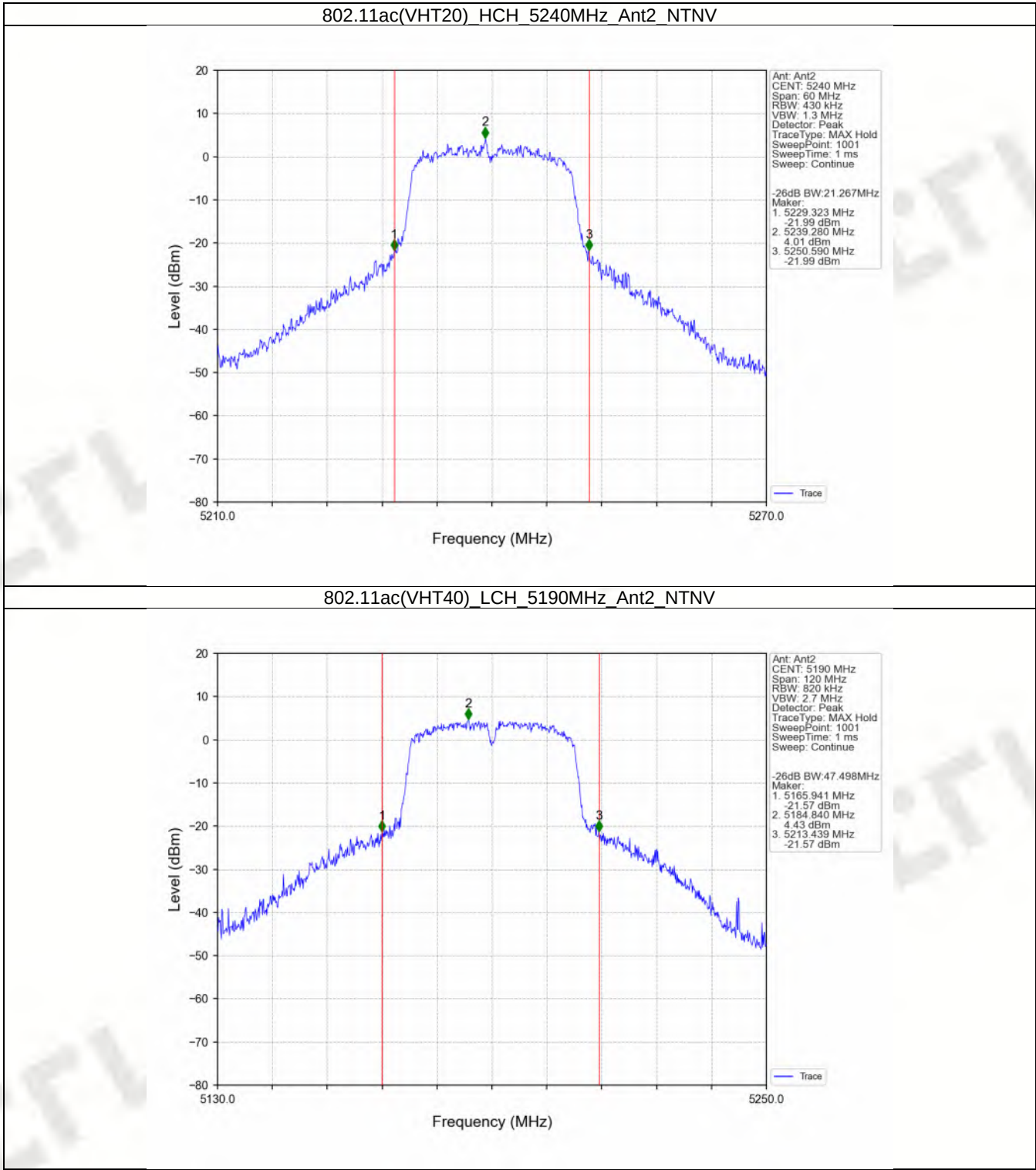
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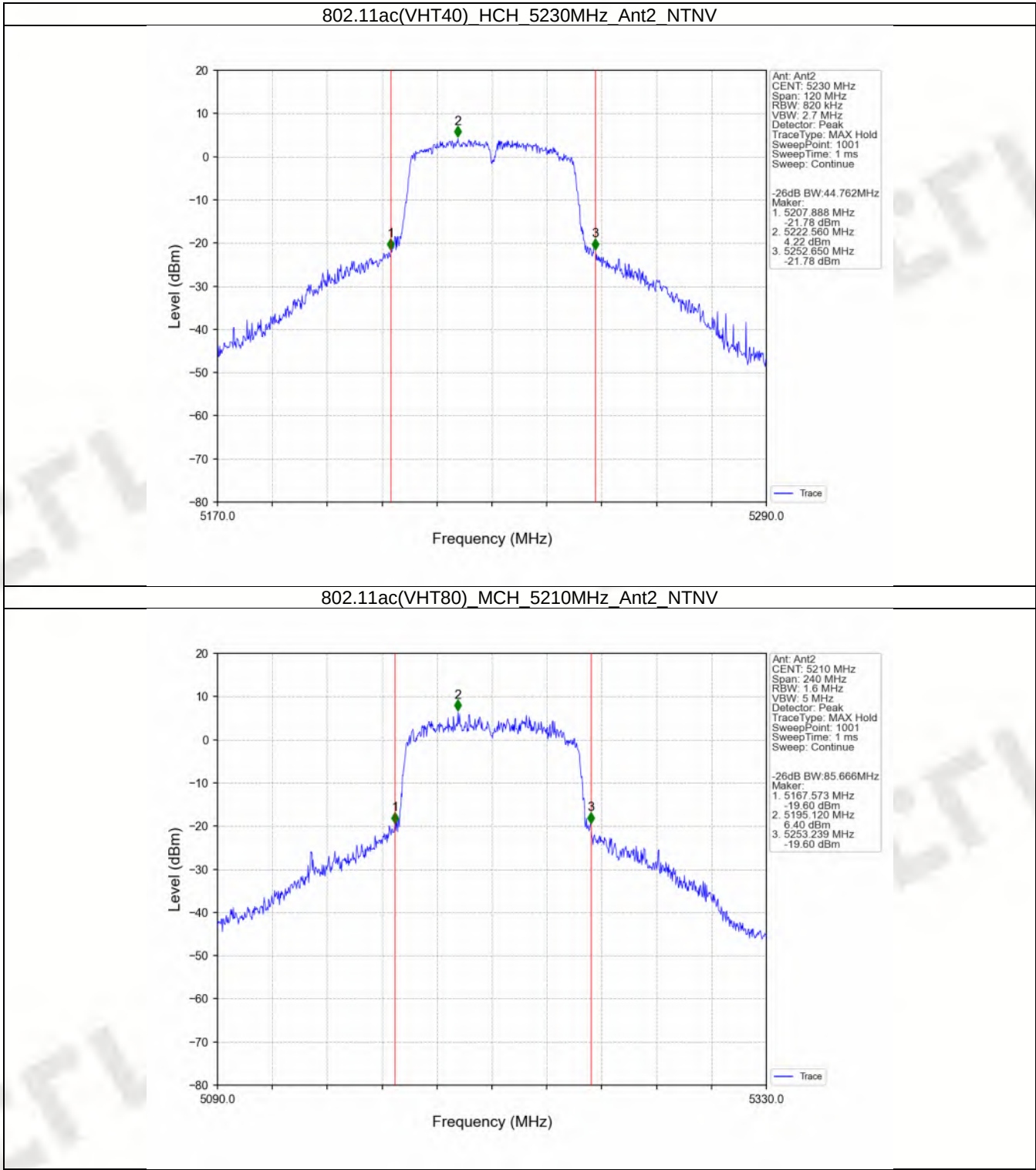
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FCCID: 2BCMY-LINCSTATIONE1



FCCID: 2BCMY-LINCSTATIONE1



FCCID: 2BCMY-LINCSTATIONE1

3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	12.39	13.71	/	<=23.98	Pass
		5200	12.56	13.76	/	<=23.98	Pass
		5240	13.38	14.59	/	<=23.98	Pass
802.11n (HT20)	SISO	5180	12.29	13.62	/	<=23.98	Pass
		5200	12.48	13.76	/	<=23.98	Pass
		5240	13.31	14.57	/	<=23.98	Pass
802.11n (HT40)	SISO	5190	12.13	13.49	/	<=23.98	Pass
		5230	12.88	14.33	/	<=23.98	Pass
802.11n (HT20)	MIMO	5180	10.35	12.63	14.65	<=23.98	Pass
		5200	10.37	12.80	14.76	<=23.98	Pass
		5240	11.06	13.64	15.55	<=23.98	Pass
802.11n (HT40)	MIMO	5190	10.04	12.57	14.50	<=23.98	Pass
		5230	10.70	13.38	15.25	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	11.31	13.95	/	<=23.98	Pass
		5200	12.47	13.49	/	<=23.98	Pass
		5240	13.31	12.84	/	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	12.11	13.54	/	<=23.98	Pass
		5230	12.90	12.91	/	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	11.83	11.05	/	<=23.98	Pass
802.11ac (VHT20)	MIMO	5180	10.36	12.95	14.86	<=23.98	Pass
		5200	9.88	12.56	14.43	<=23.98	Pass
		5240	10.92	11.87	14.43	<=23.98	Pass
802.11ac (VHT40)	MIMO	5190	10.03	12.65	14.54	<=23.98	Pass
		5230	10.99	11.95	14.51	<=23.98	Pass
802.11ac (VHT80)	MIMO	5210	10.61	10.06	13.35	<=23.98	Pass
Note1: Antenna Gain: Ant1: 2.88dBi; Ant2: 0.96dBi;							
Note2: Directional Gain: 2.88dBi							
Note3: The conduction power test has added the Duty factor							

FCCID: 2BCMY-LINCSTATIONE1

4. Maximum Power Spectral Density**4.1 Test Result****4.1.1 PSD**

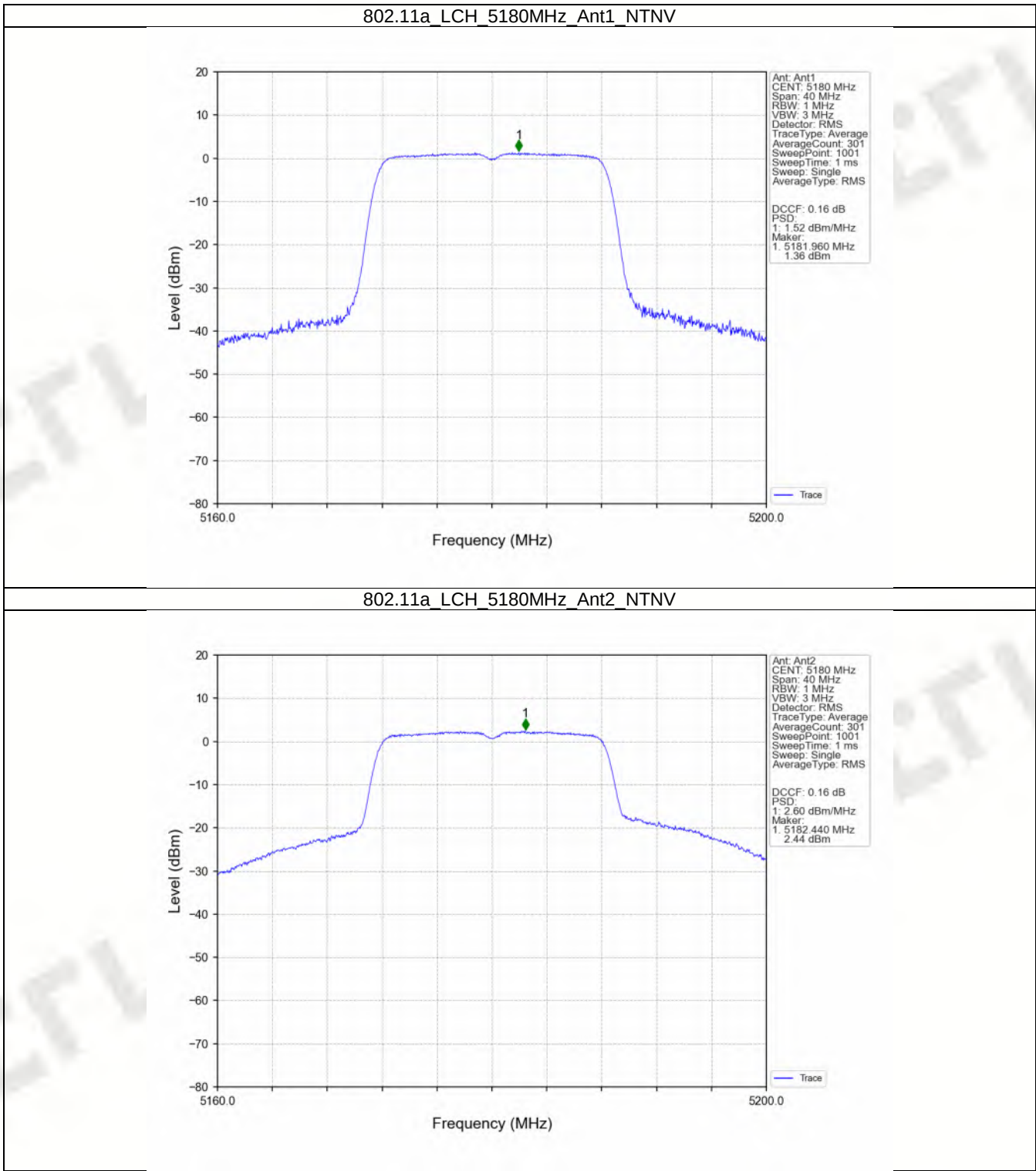
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	1.52	2.60	/	<=11	Pass
		5200	1.44	2.58	/	<=11	Pass
		5240	2.15	3.30	/	<=11	Pass
802.11n (HT20)	SISO	5180	0.92	2.24	/	<=11	Pass
		5200	1.02	2.27	/	<=11	Pass
		5240	1.83	3.09	/	<=11	Pass
802.11n (HT40)	SISO	5190	-1.99	-0.56	/	<=11	Pass
		5230	-1.22	0.24	/	<=11	Pass
802.11n (HT20)	MIMO	5180	-1.22	1.32	3.19	<=11	Pass
		5200	-1.18	1.38	3.20	<=11	Pass
		5240	-0.40	2.16	4.00	<=11	Pass
802.11n (HT40)	MIMO	5190	-4.11	-1.40	0.42	<=11	Pass
		5230	-3.45	-0.64	1.07	<=11	Pass
802.11ac (VHT20)	SISO	5180	-0.11	2.50	/	<=11	Pass
		5200	1.02	2.06	/	<=11	Pass
		5240	1.86	1.33	/	<=11	Pass
802.11ac (VHT40)	SISO	5190	-2.02	-0.53	/	<=11	Pass
		5230	-1.26	-1.12	/	<=11	Pass
802.11ac (VHT80)	SISO	5210	-5.03	-6.11	/	<=11	Pass
802.11ac (VHT20)	MIMO	5180	-1.31	1.53	3.30	<=11	Pass
		5200	-1.66	1.17	2.89	<=11	Pass
		5240	-0.60	0.51	2.86	<=11	Pass
802.11ac (VHT40)	MIMO	5190	-4.03	-1.27	0.45	<=11	Pass
		5230	-3.14	-2.06	0.34	<=11	Pass
802.11ac (VHT80)	MIMO	5210	-6.12	-6.82	-3.84	<=11	Pass

Note1: Antenna Gain: Ant1: 2.88dBi; Ant2: 0.96dBi;
Note2: Directional Gain: Band1: 5.89dBi

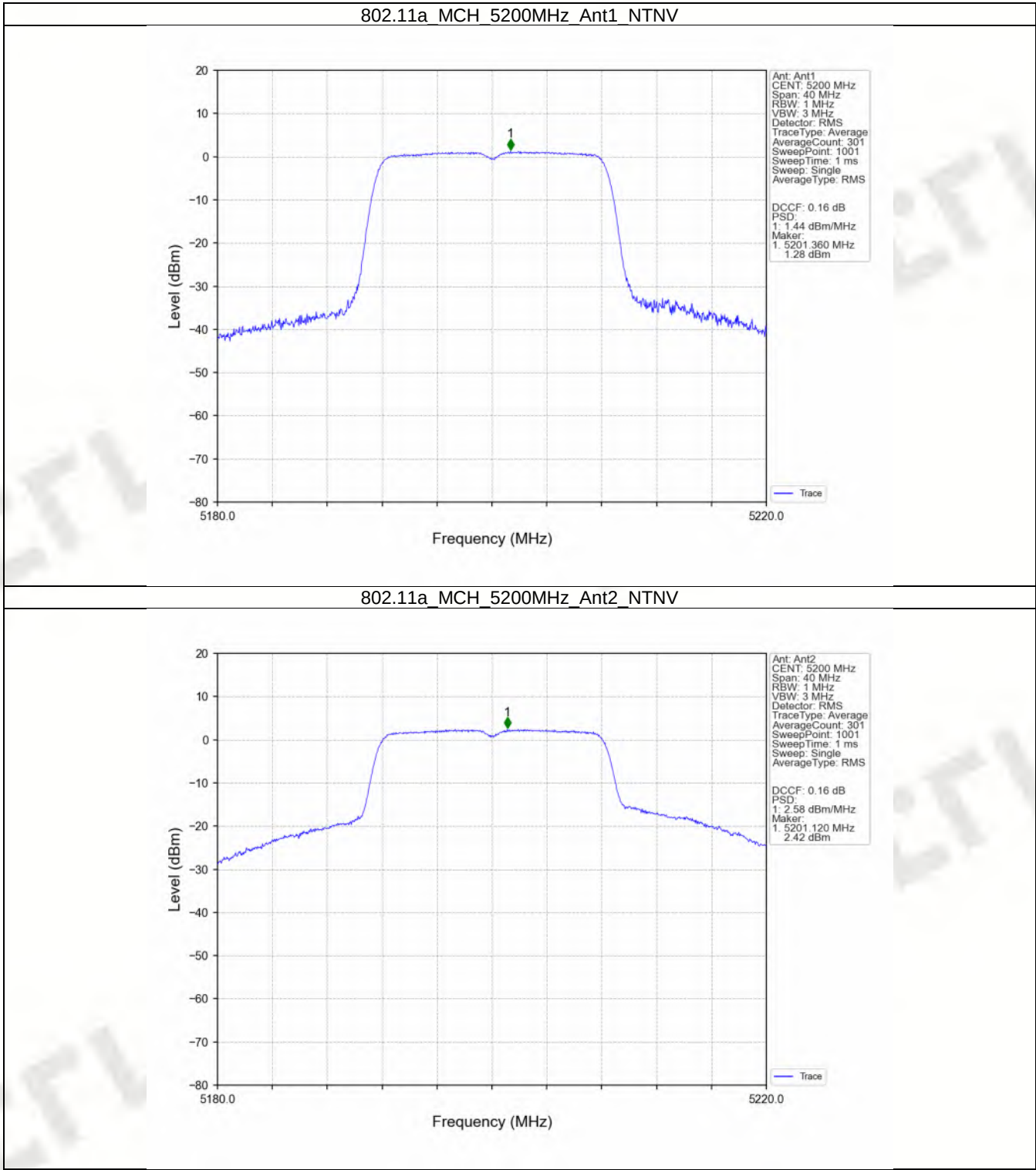
FCCID: 2BCMY-LINCSTATIONE1

4.2 Test Graph

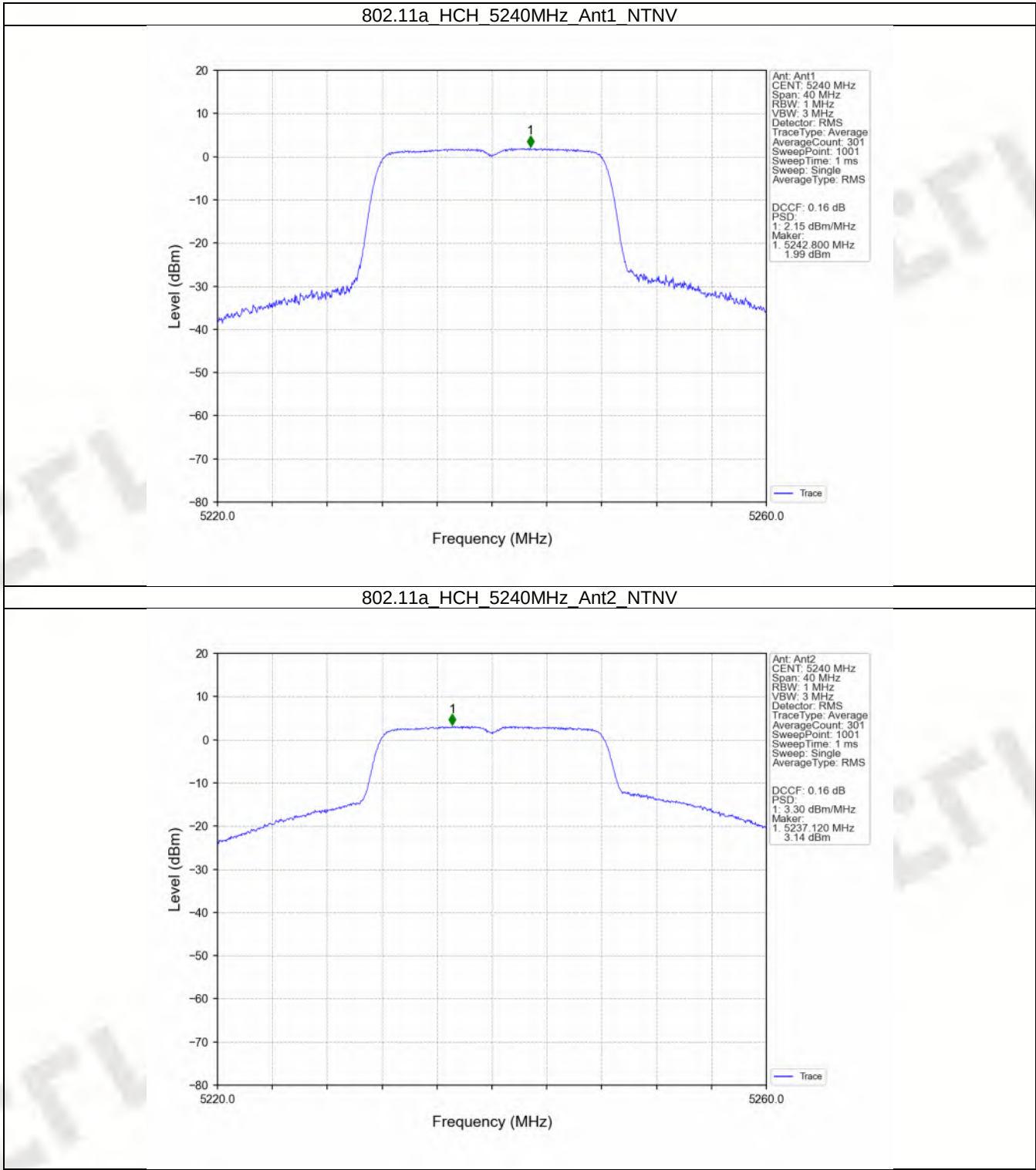
4.2.1 PSD



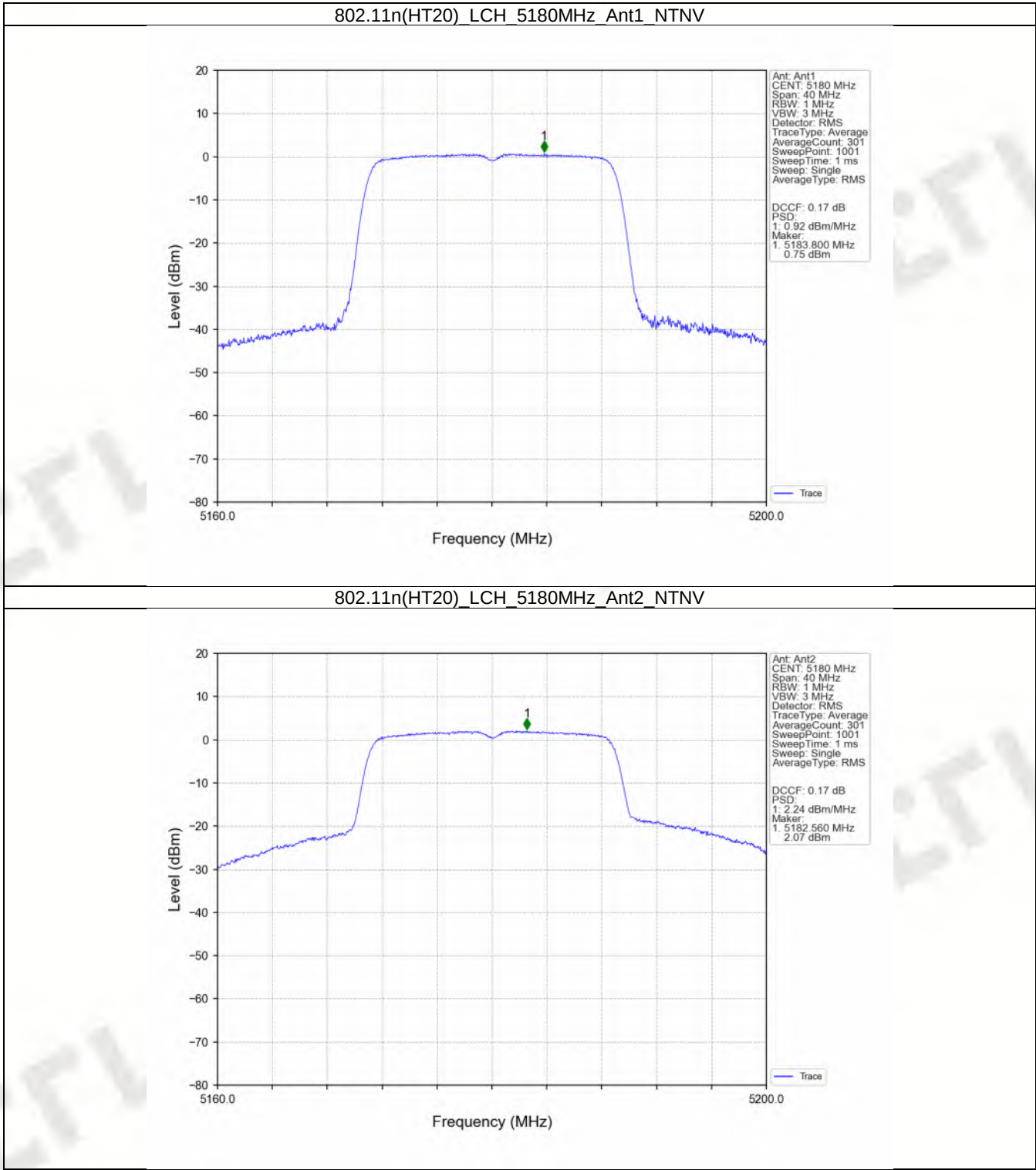
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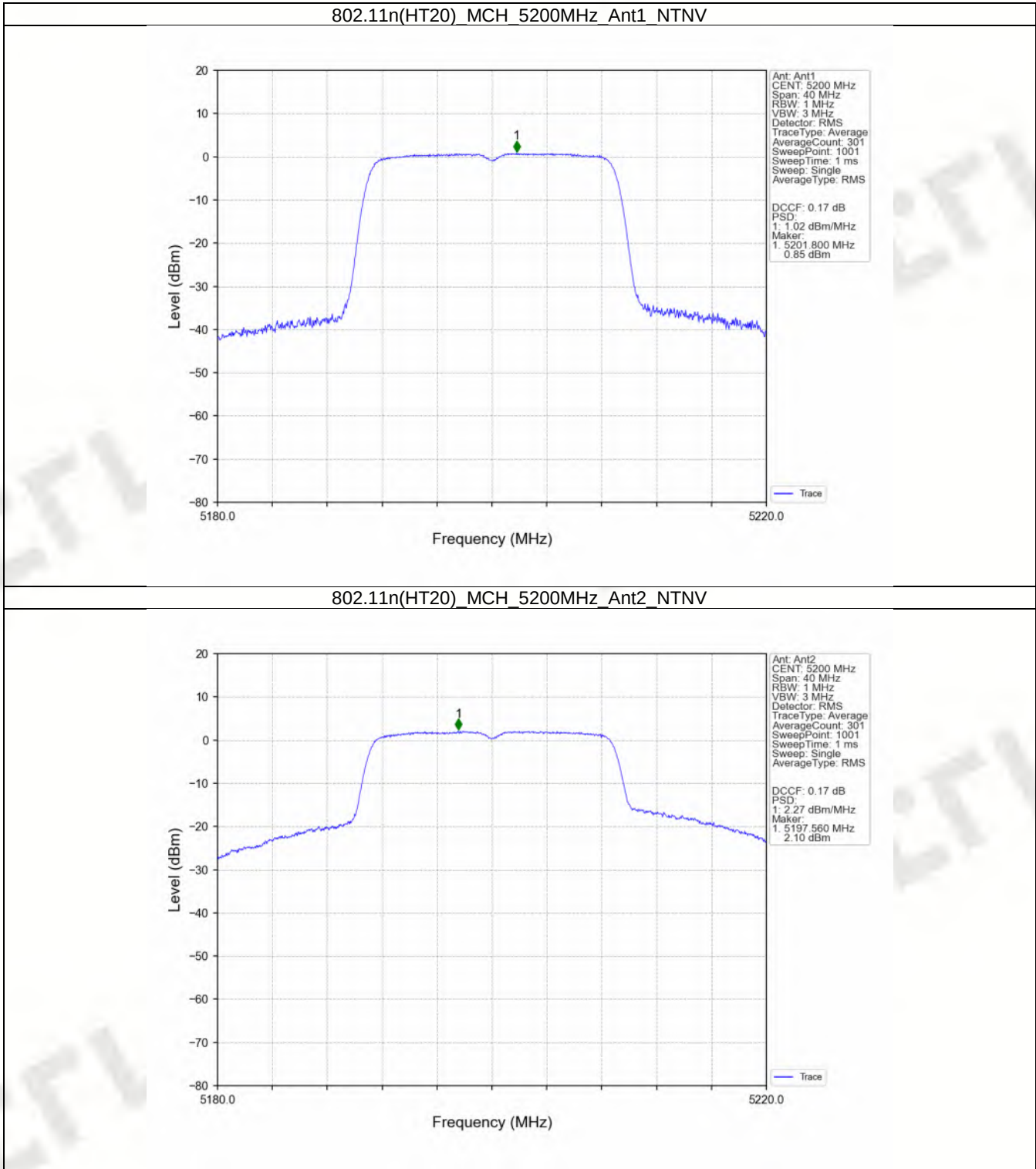
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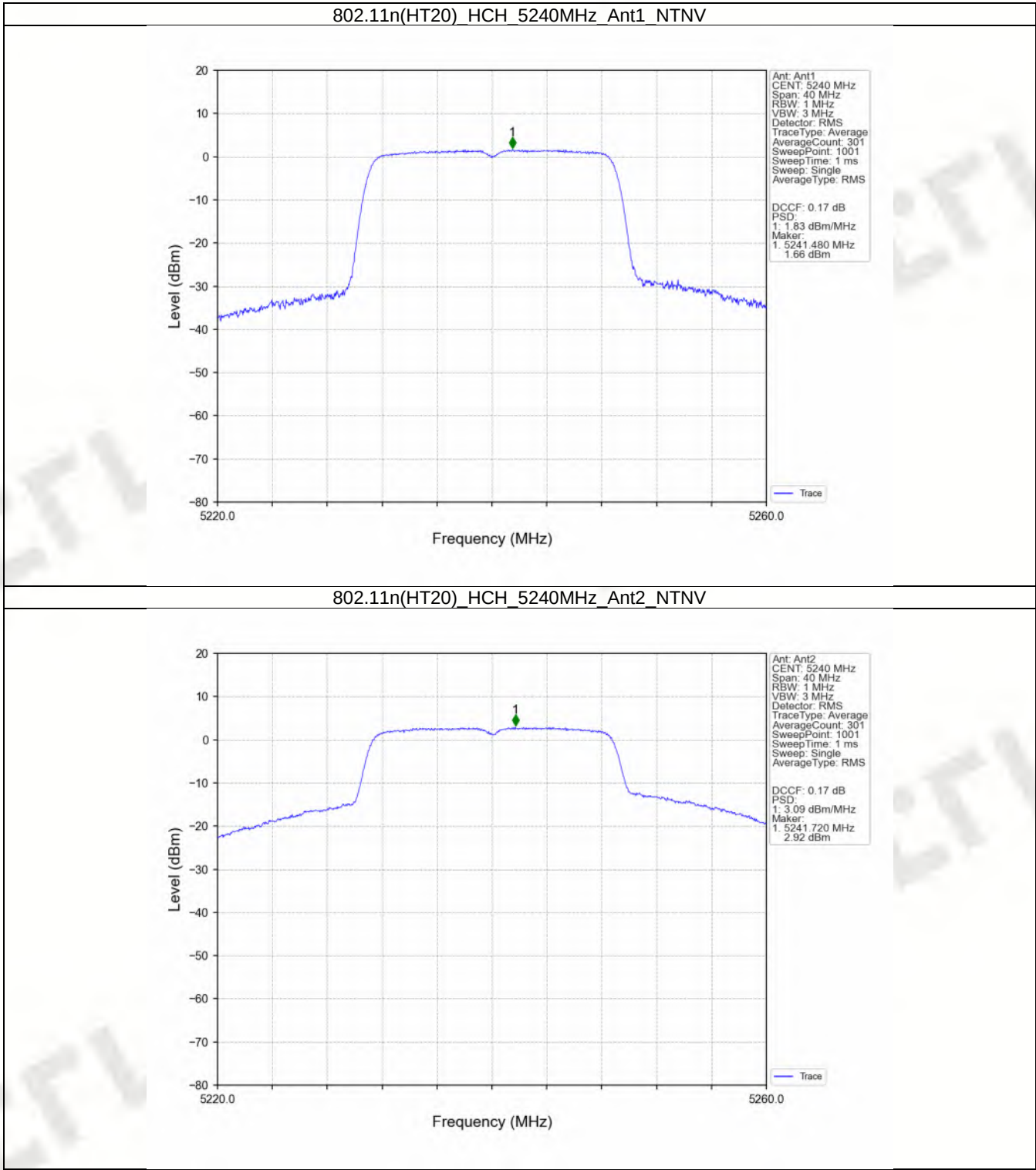
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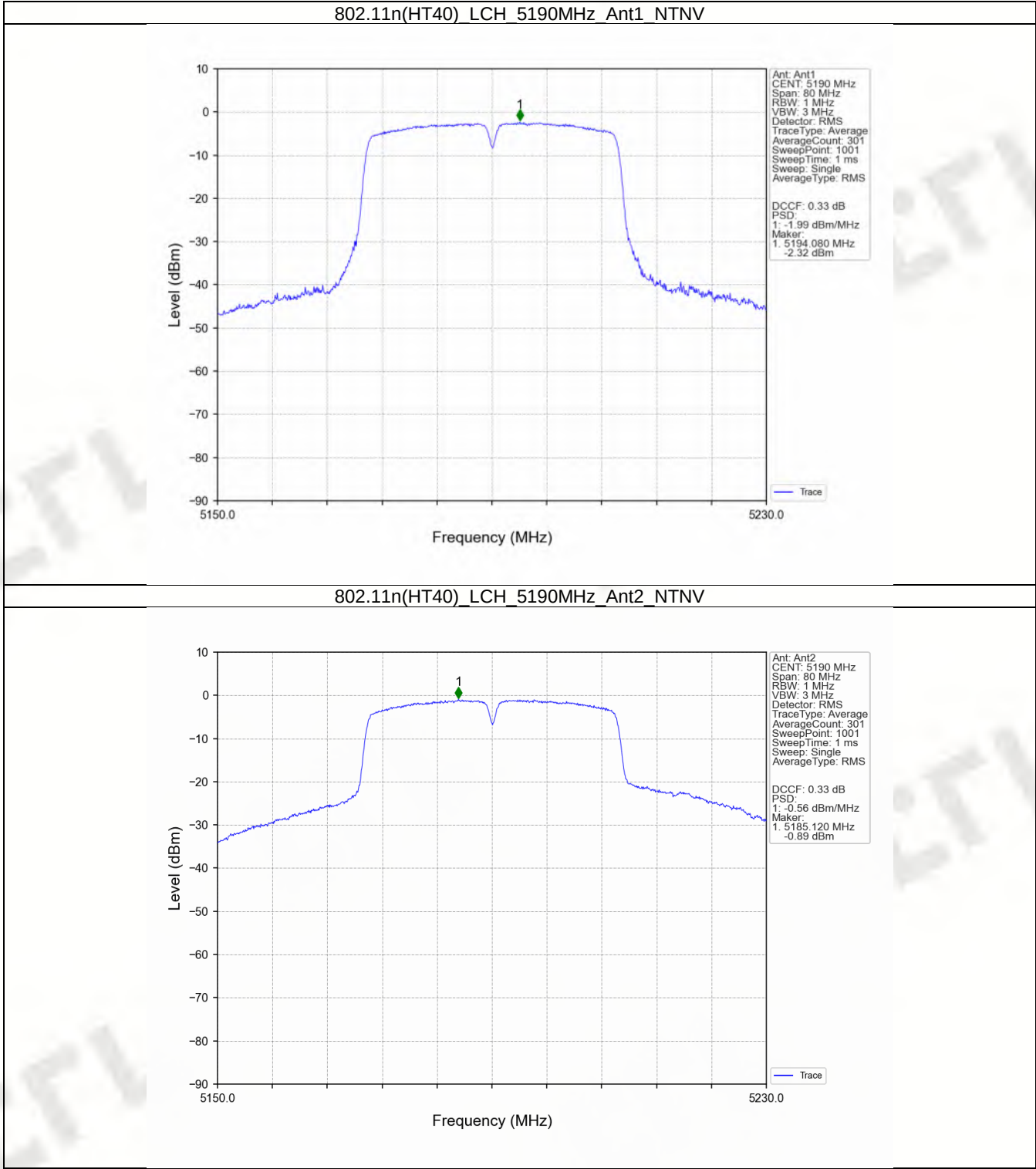
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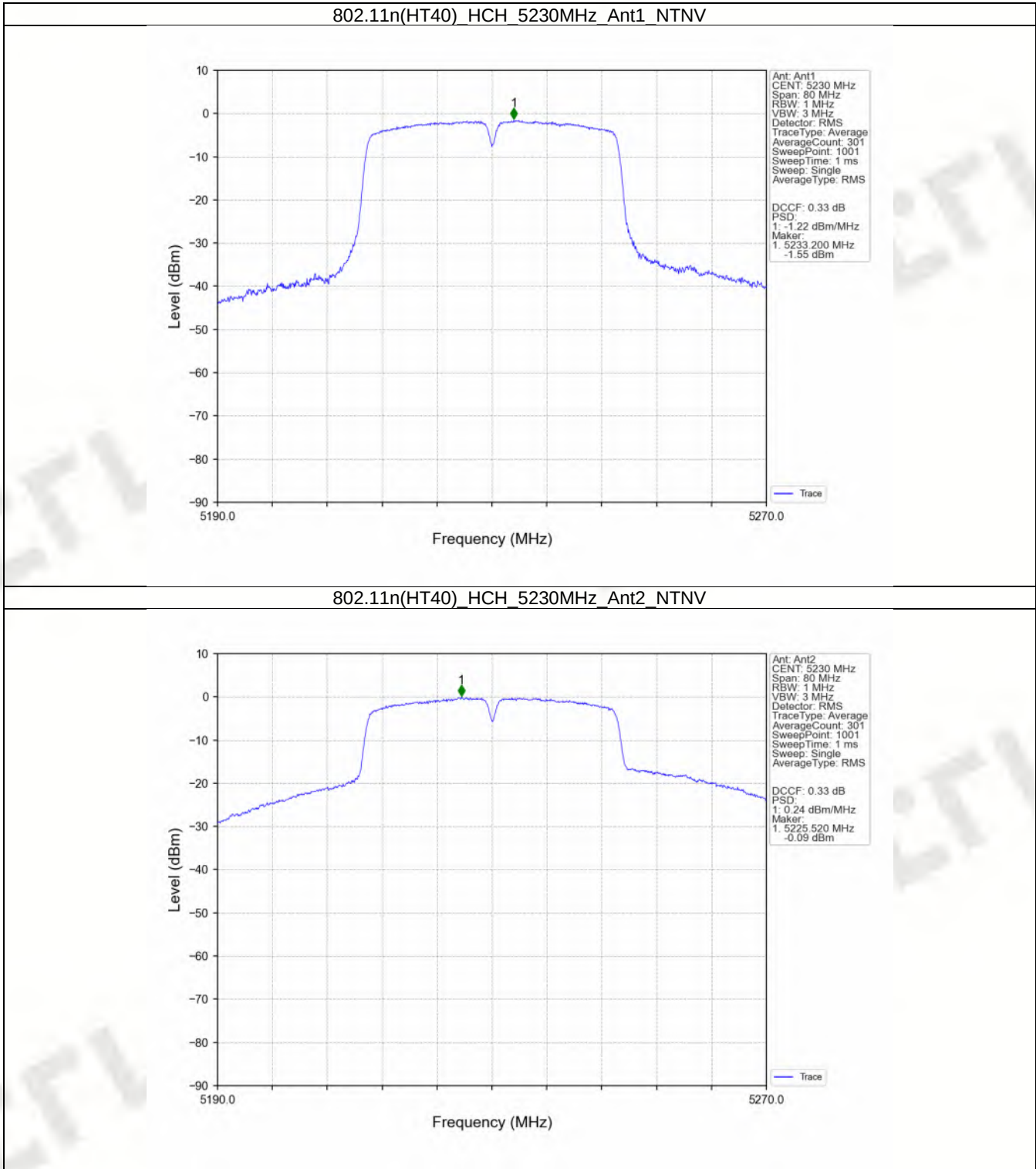
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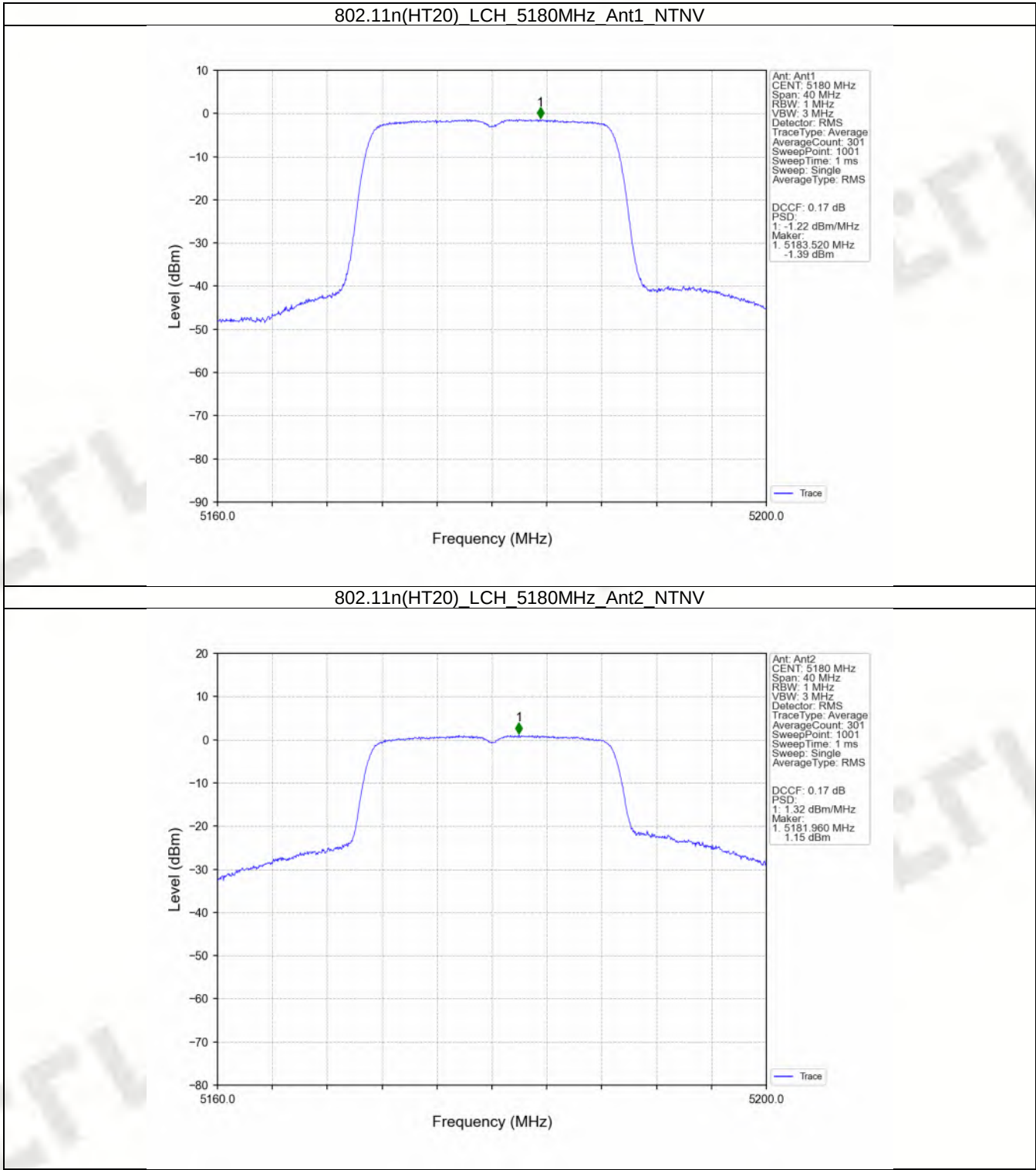
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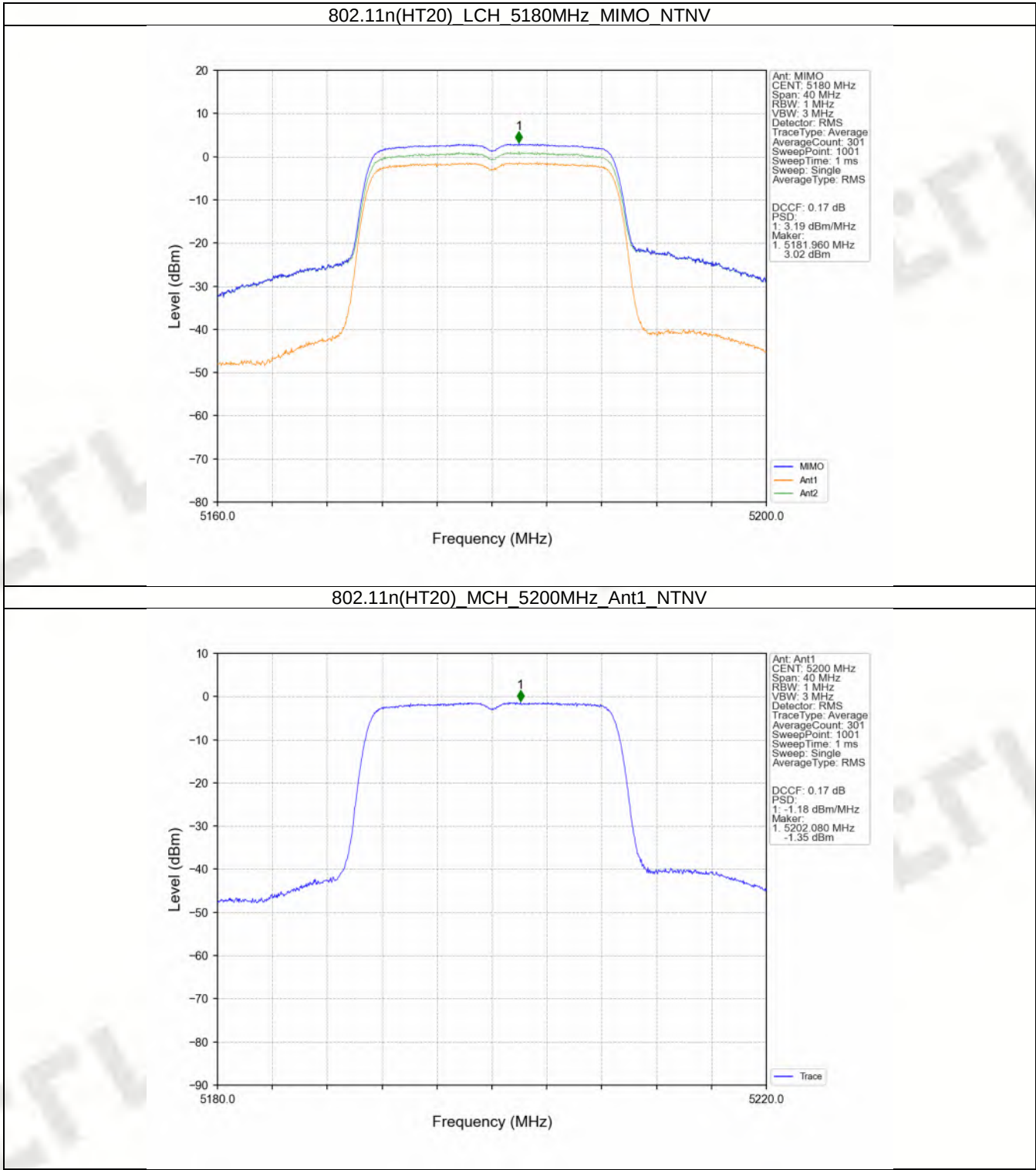
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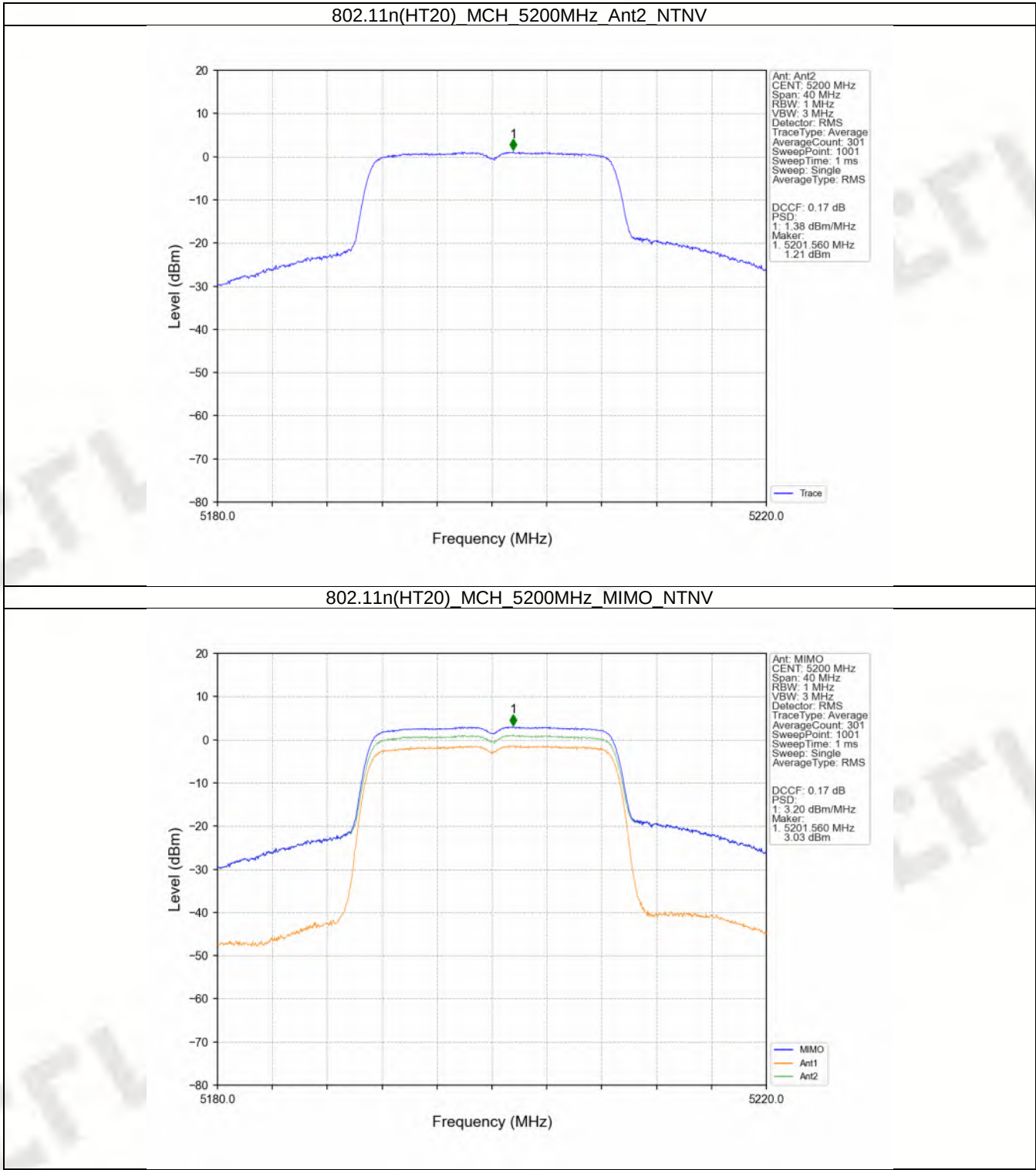
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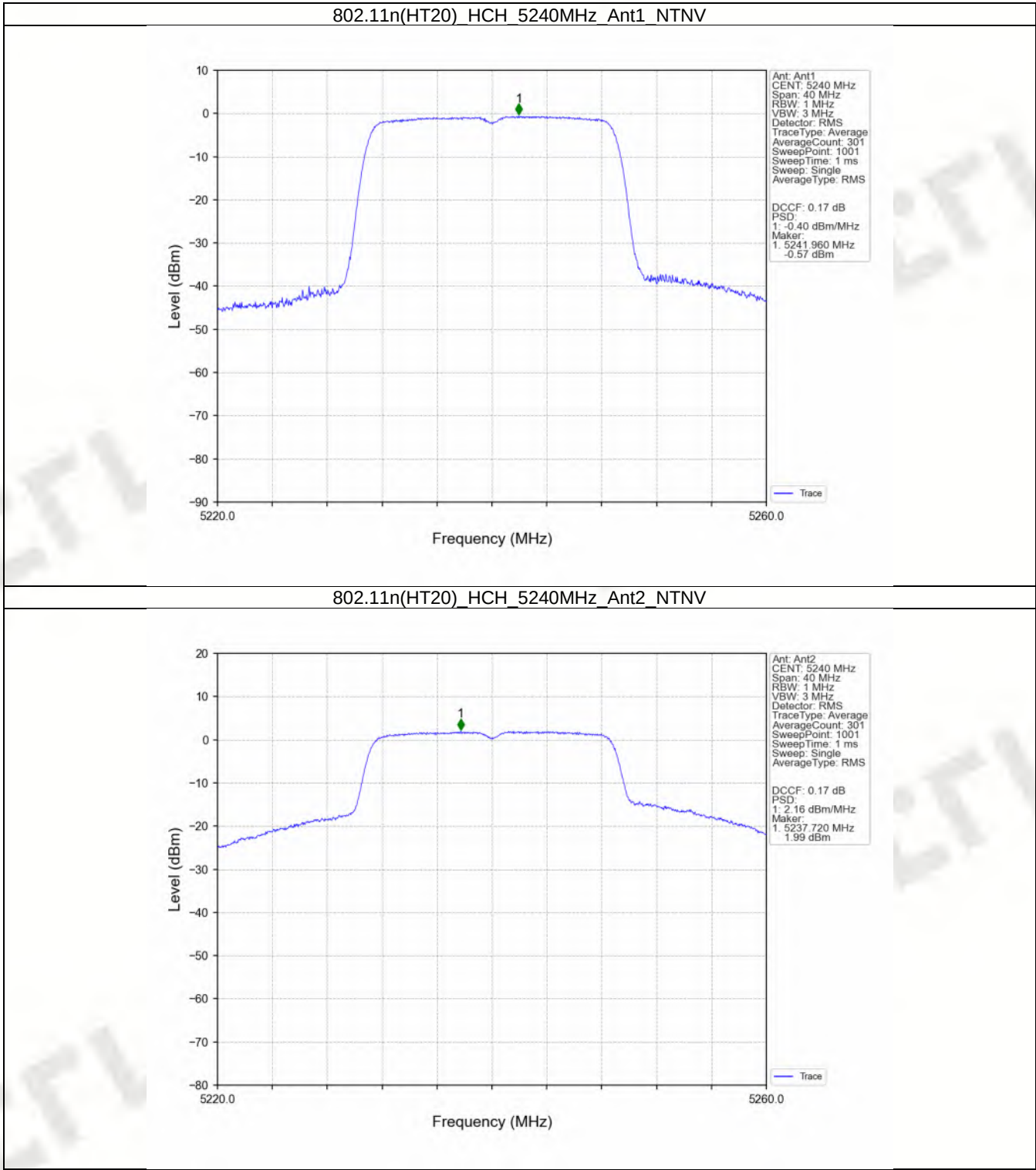
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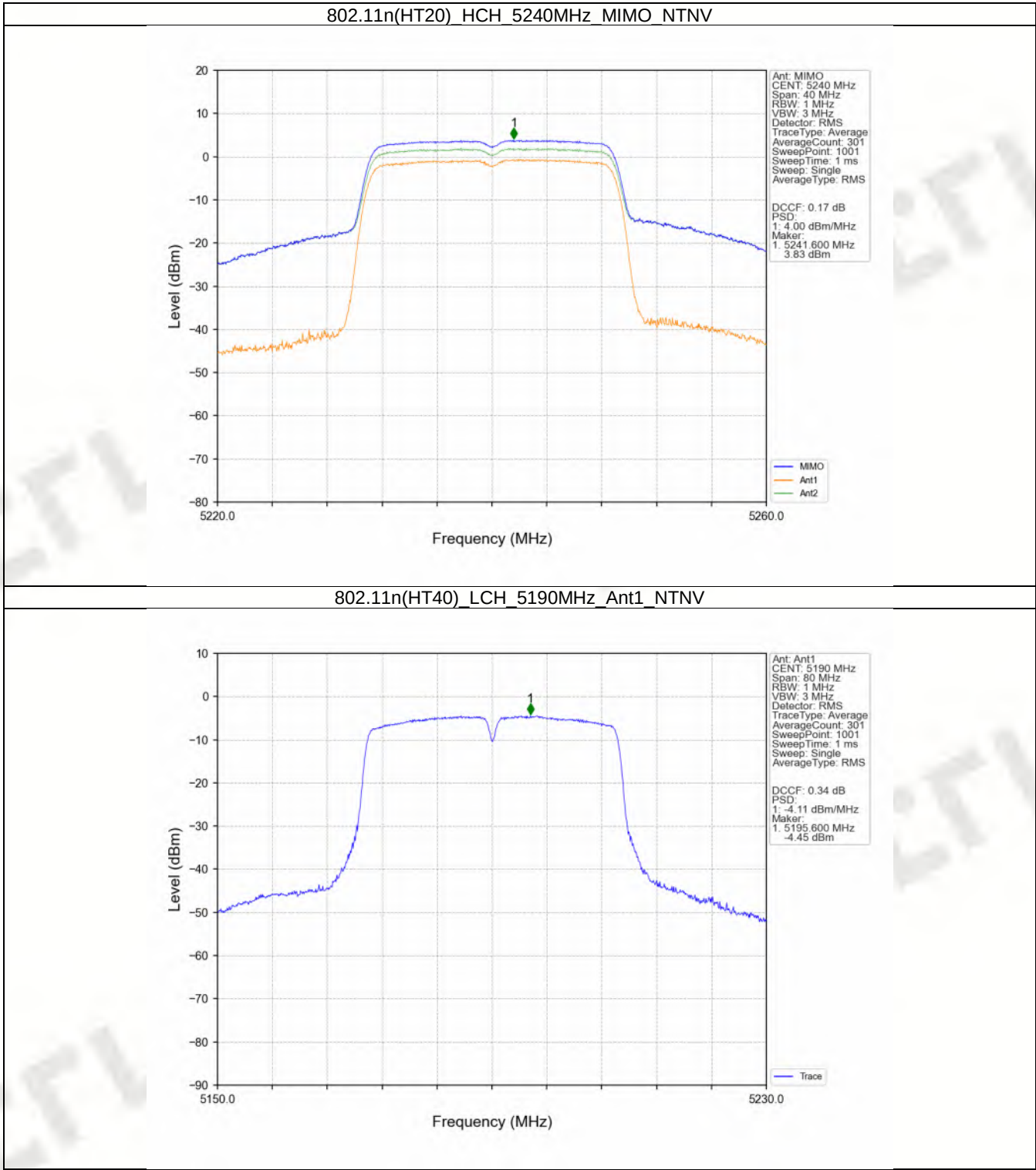
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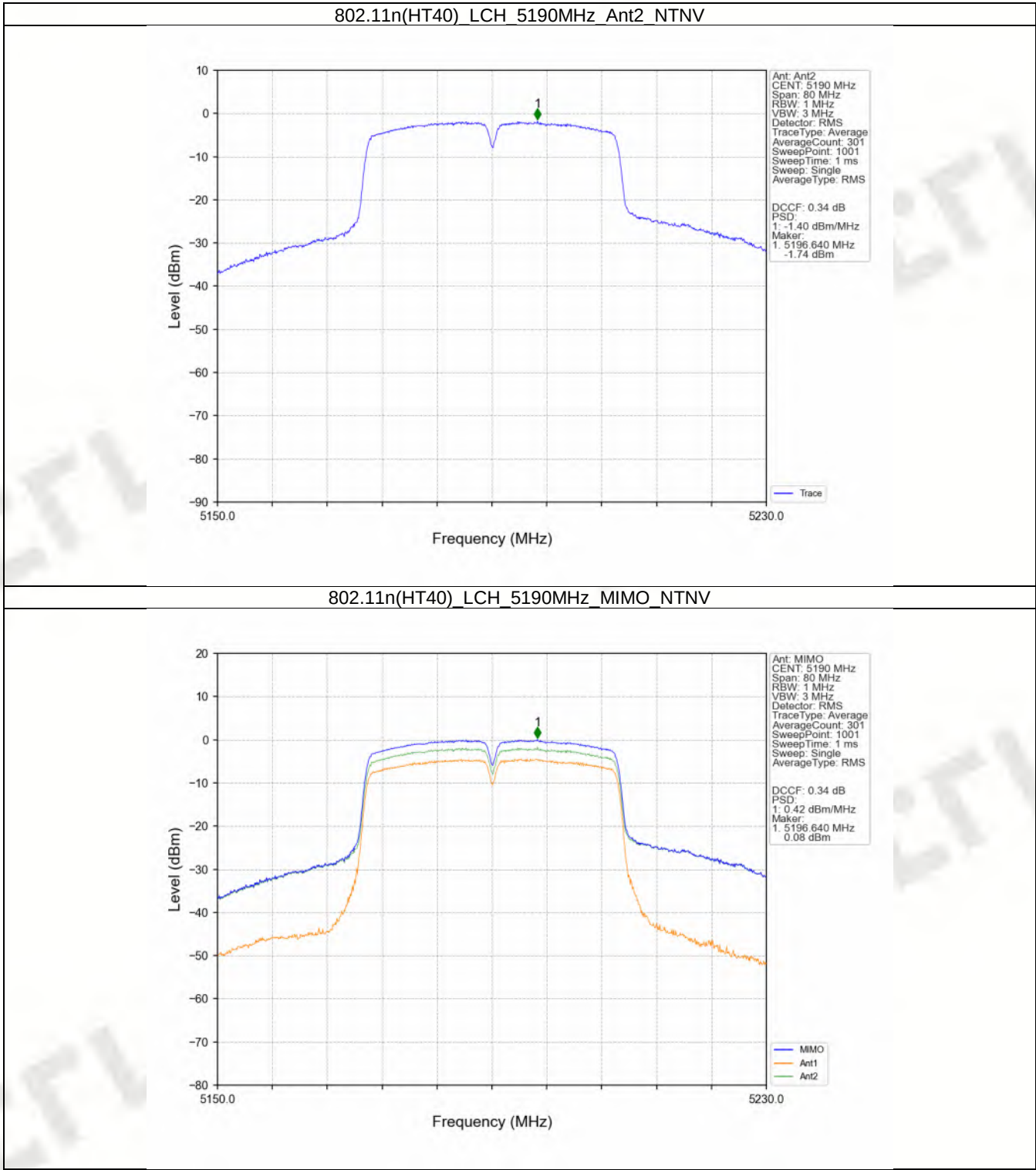
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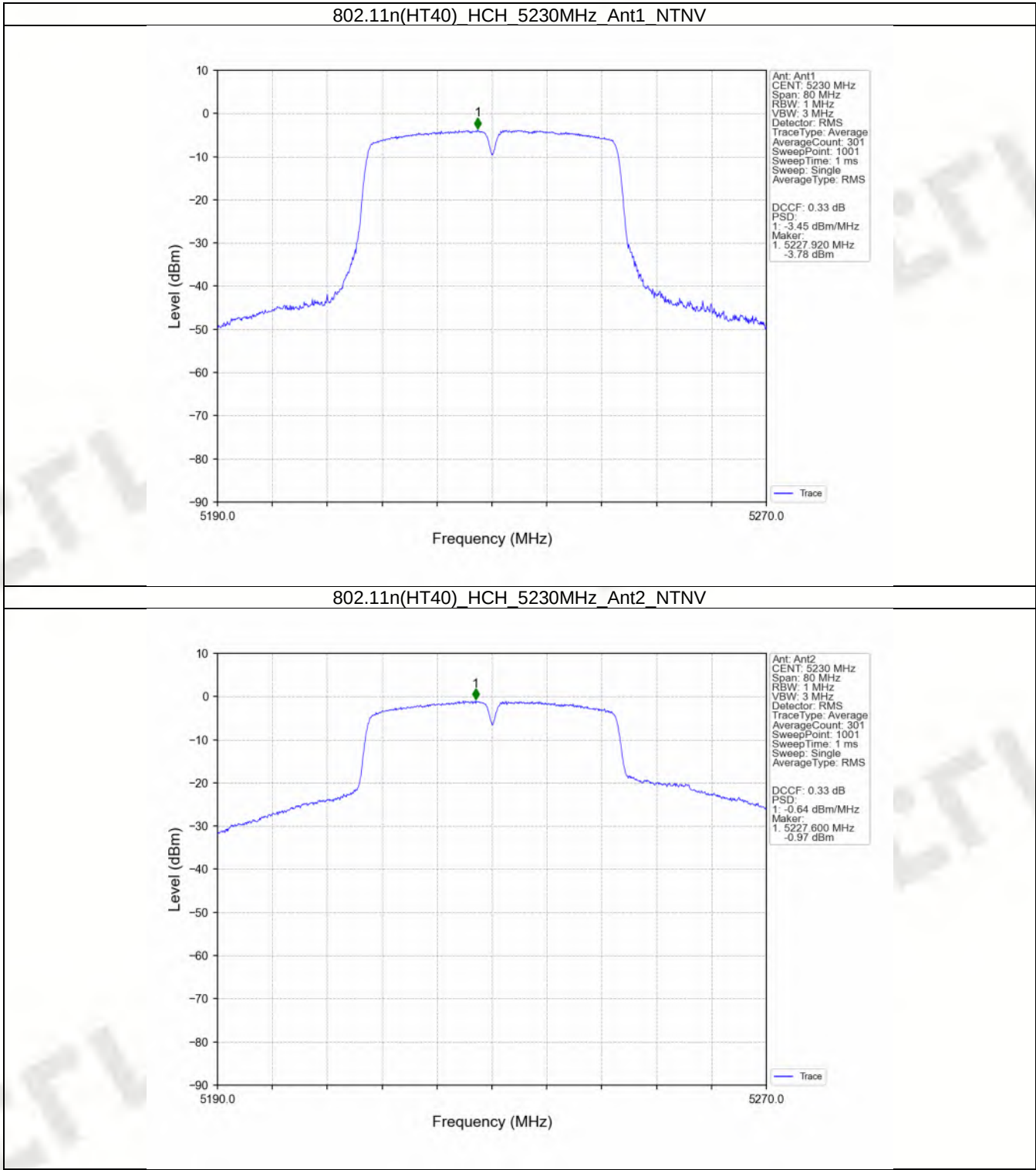
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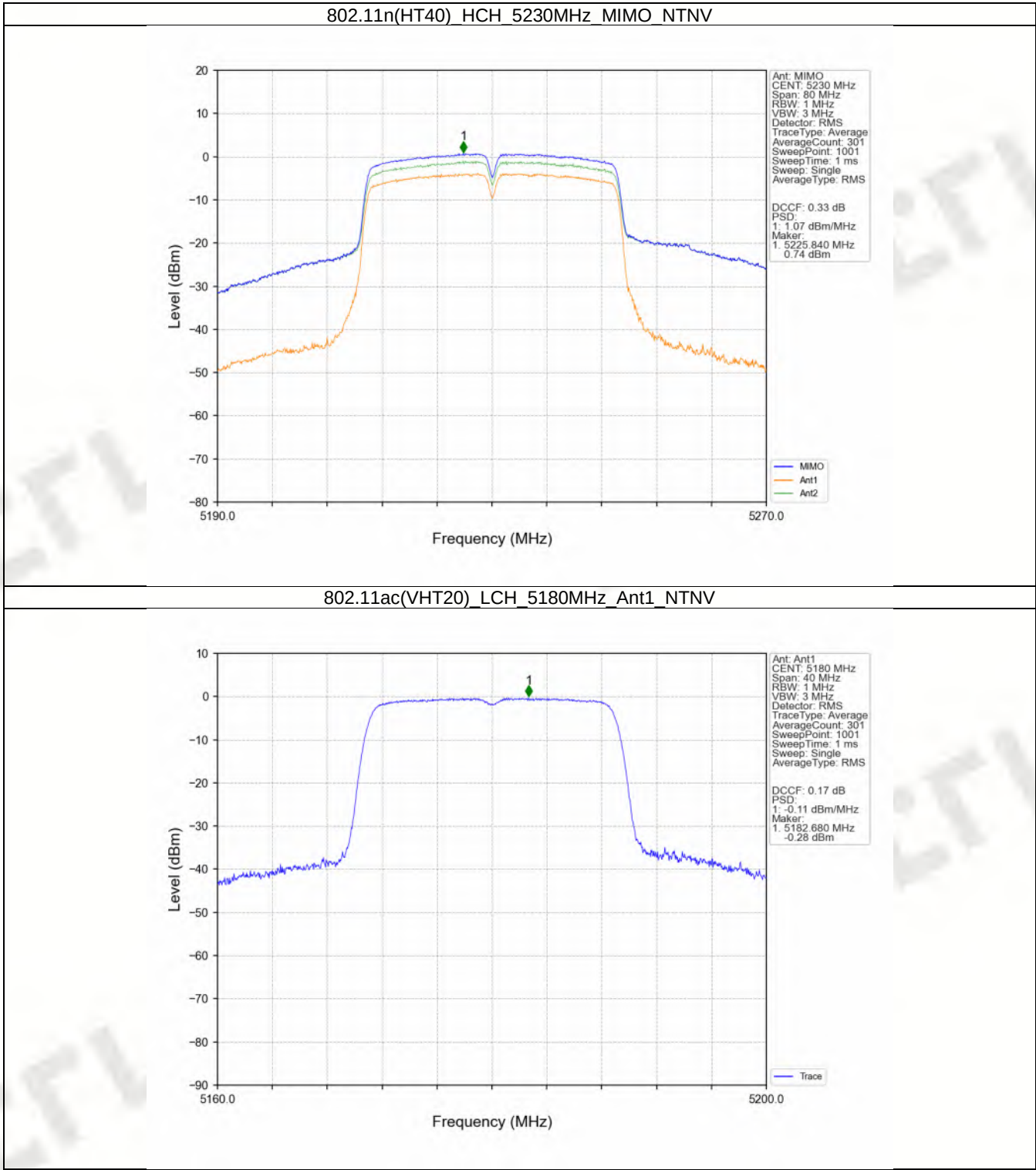
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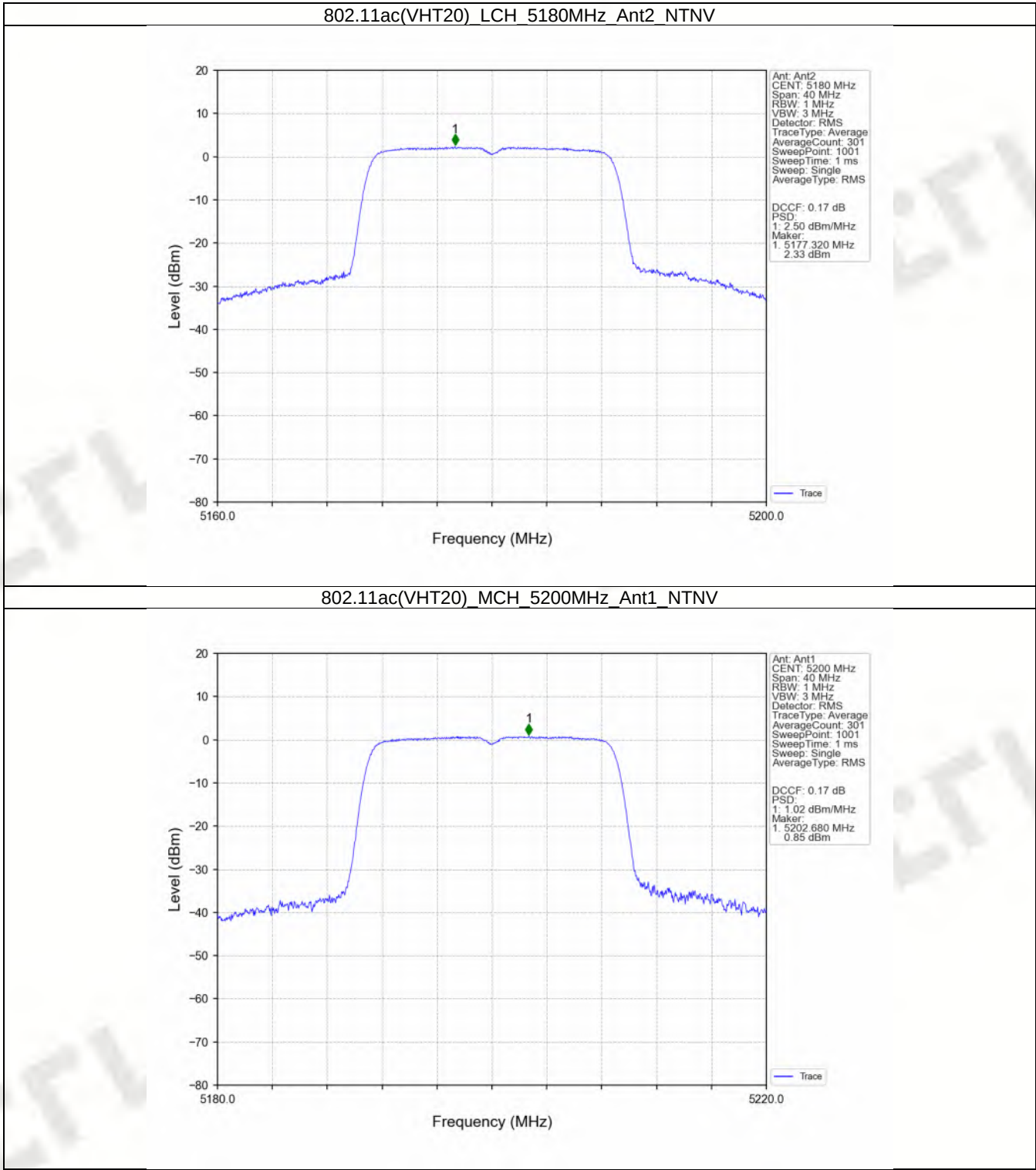
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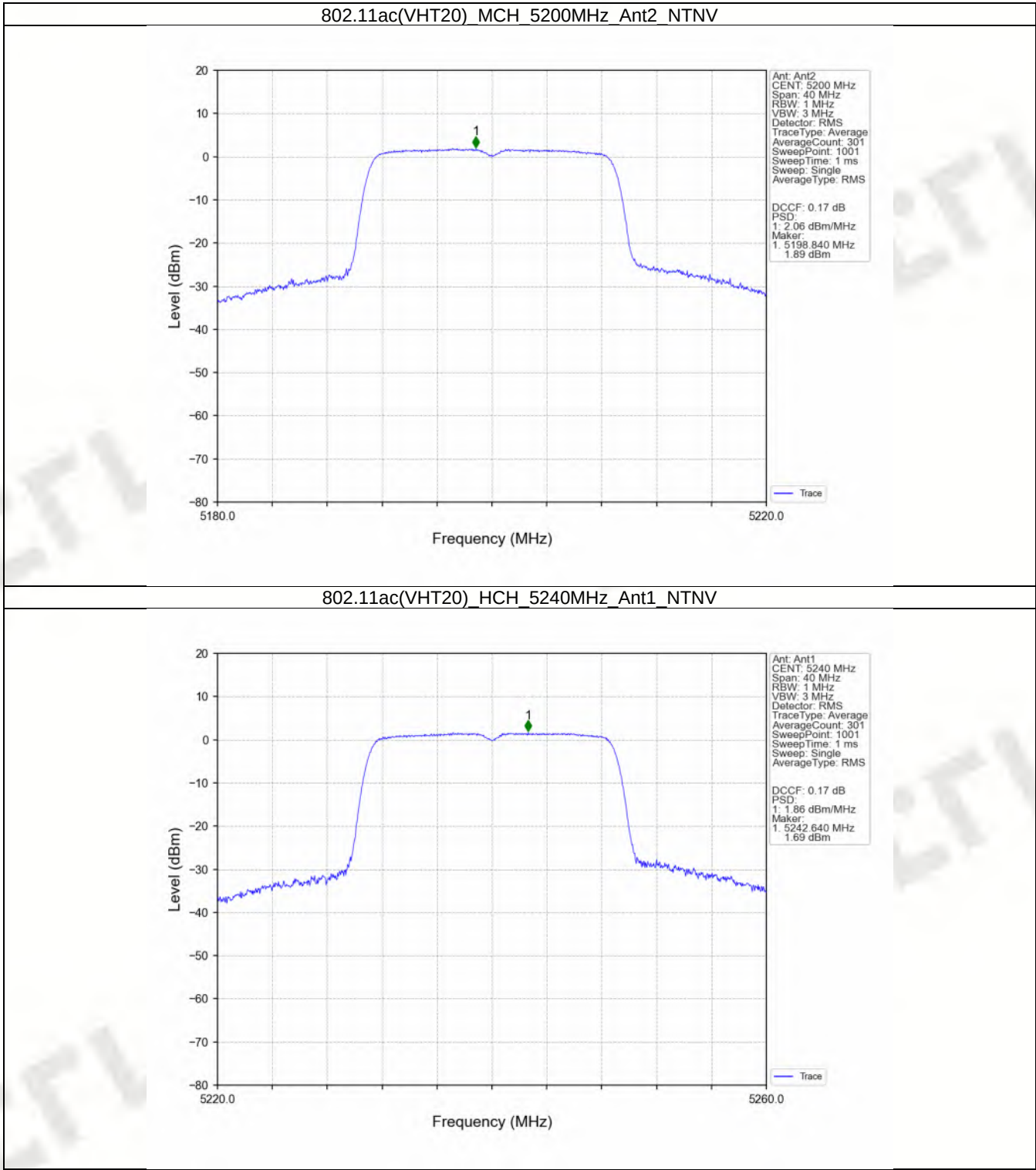
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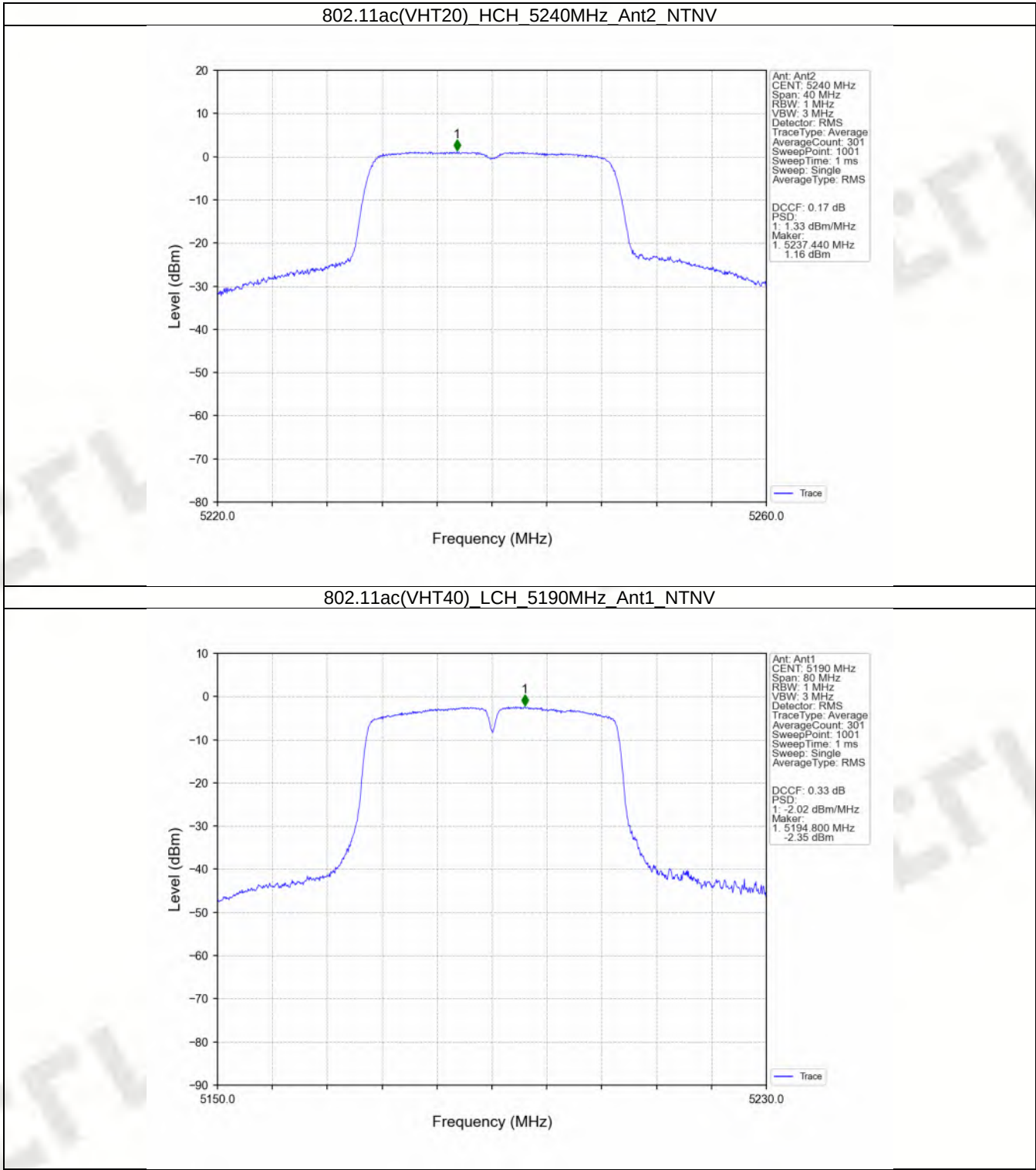
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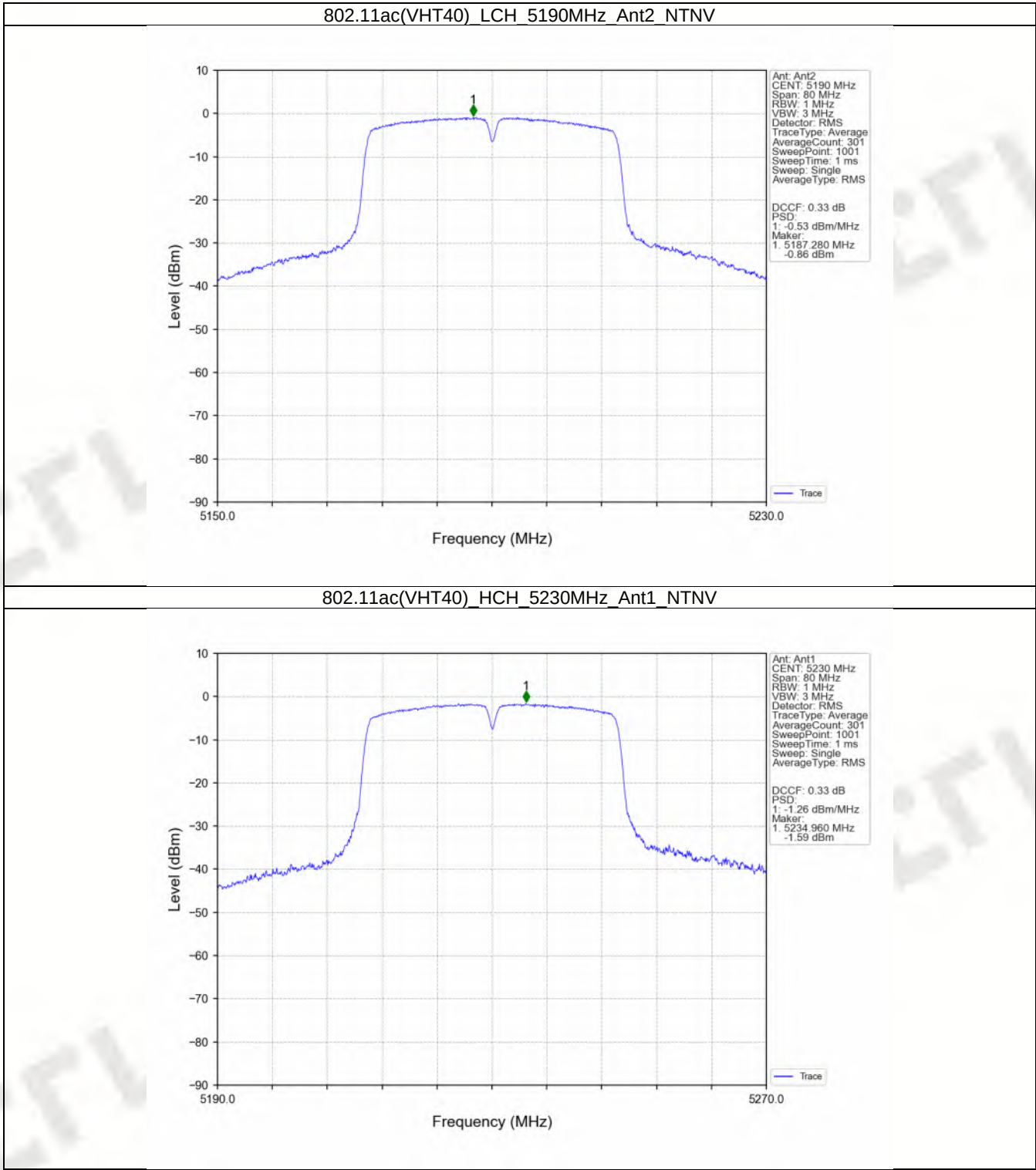
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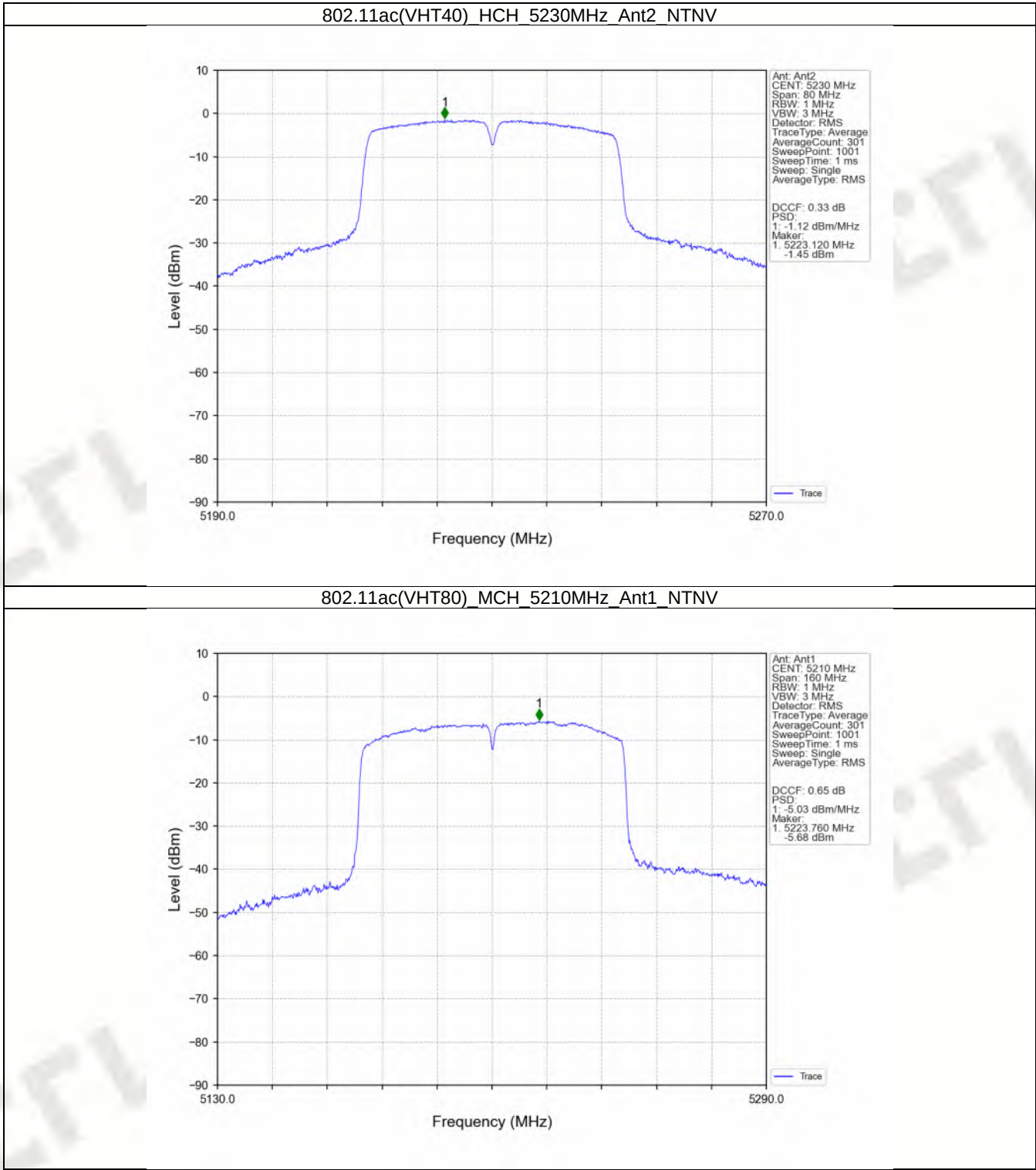
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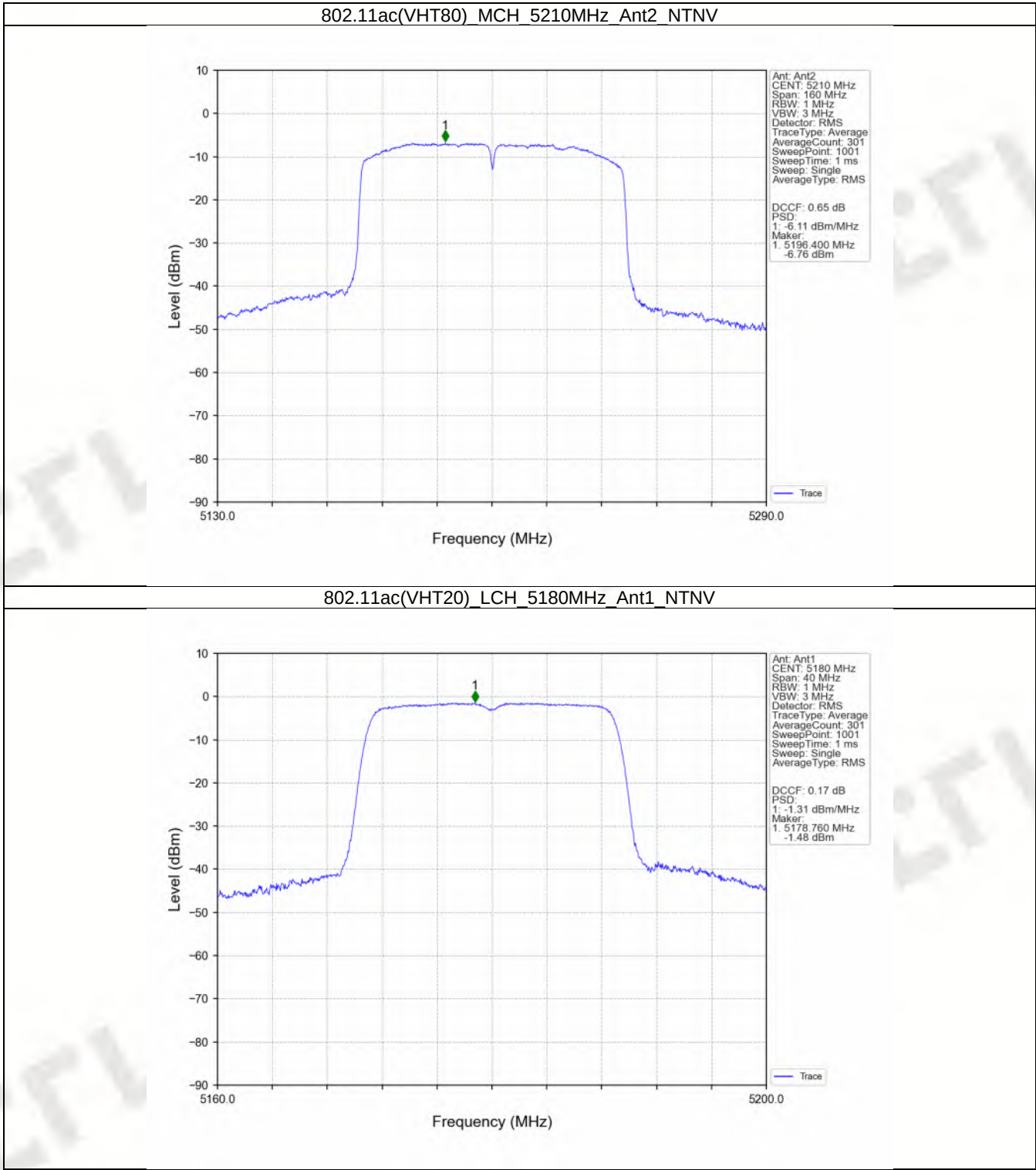
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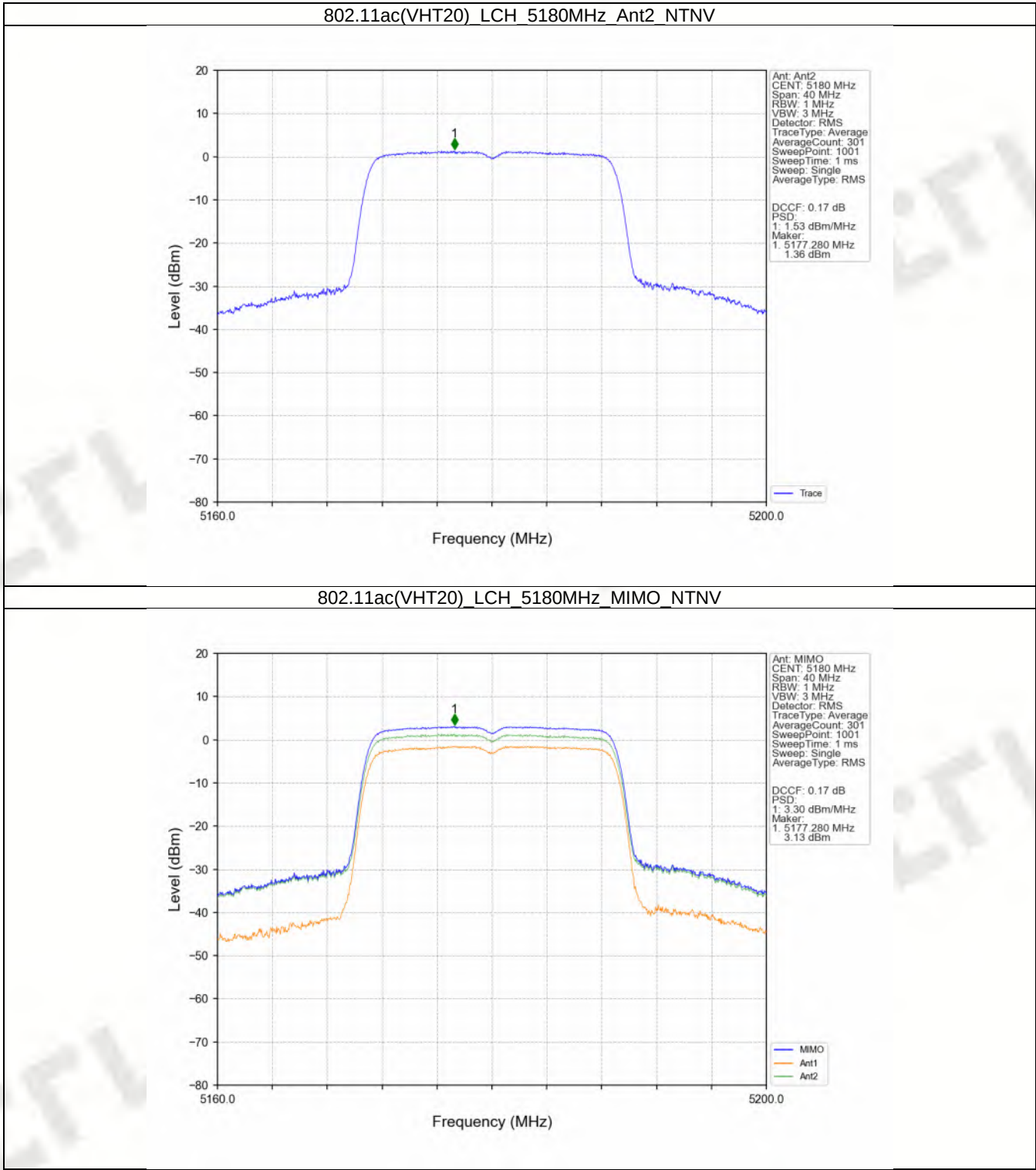
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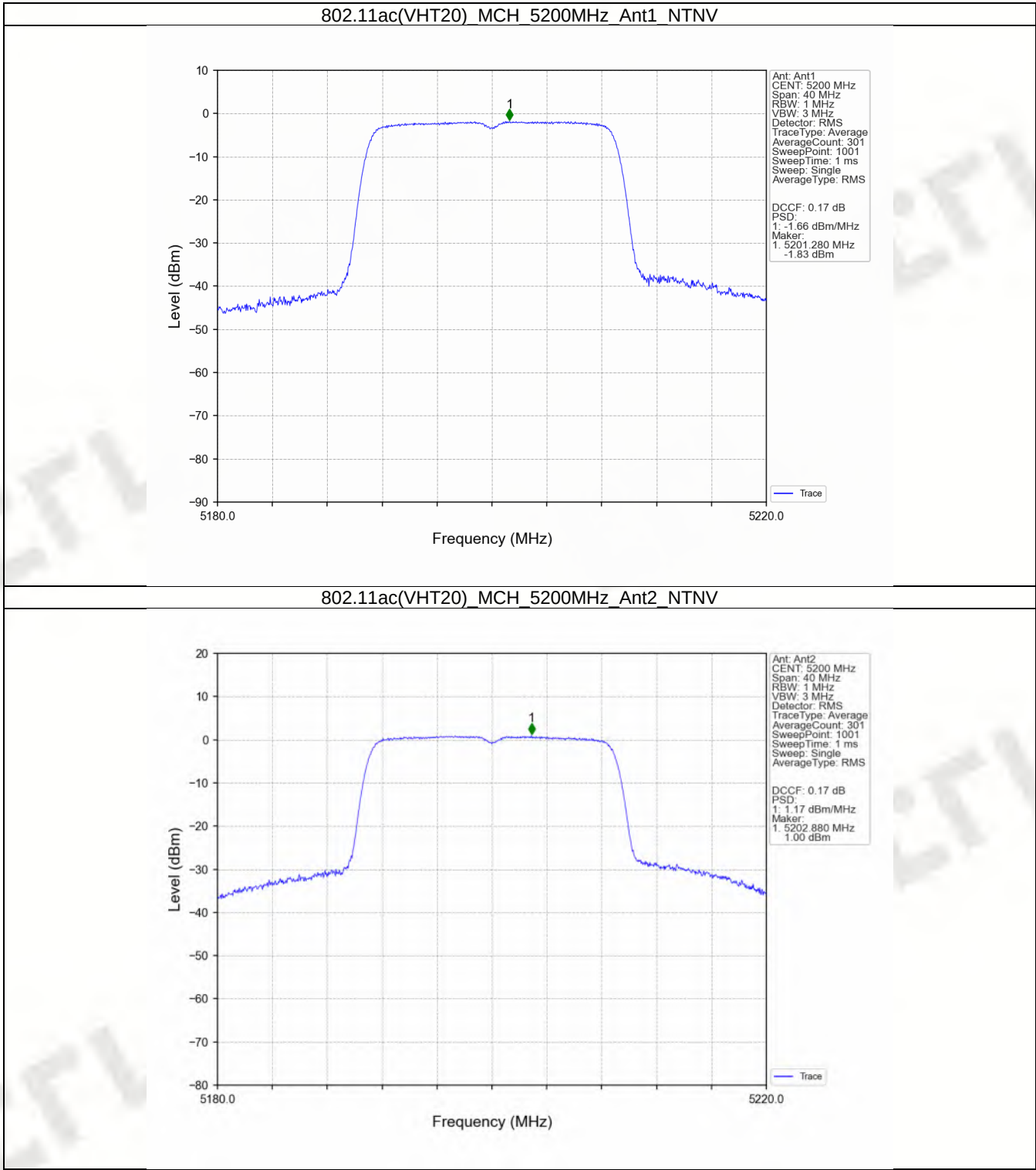
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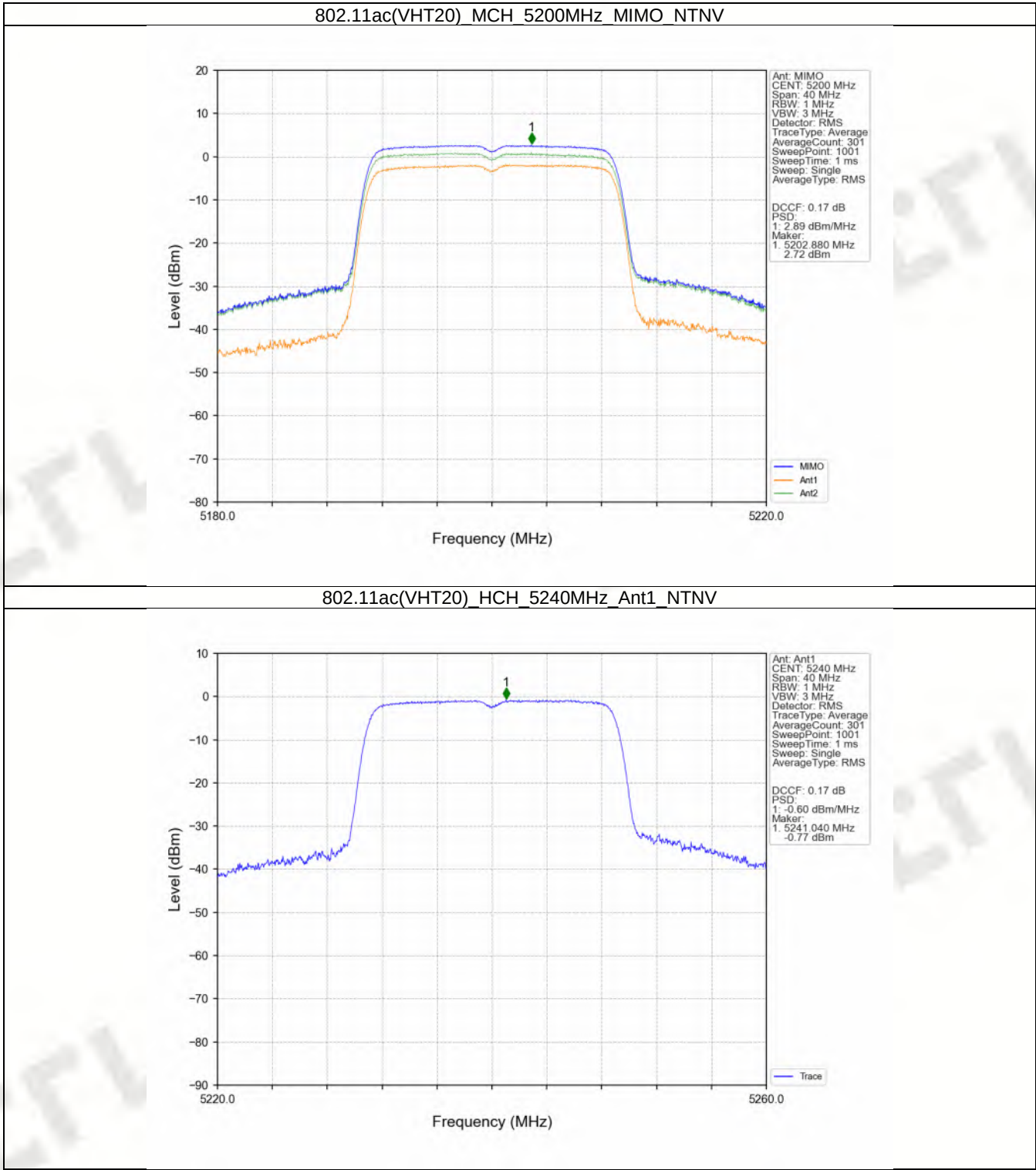
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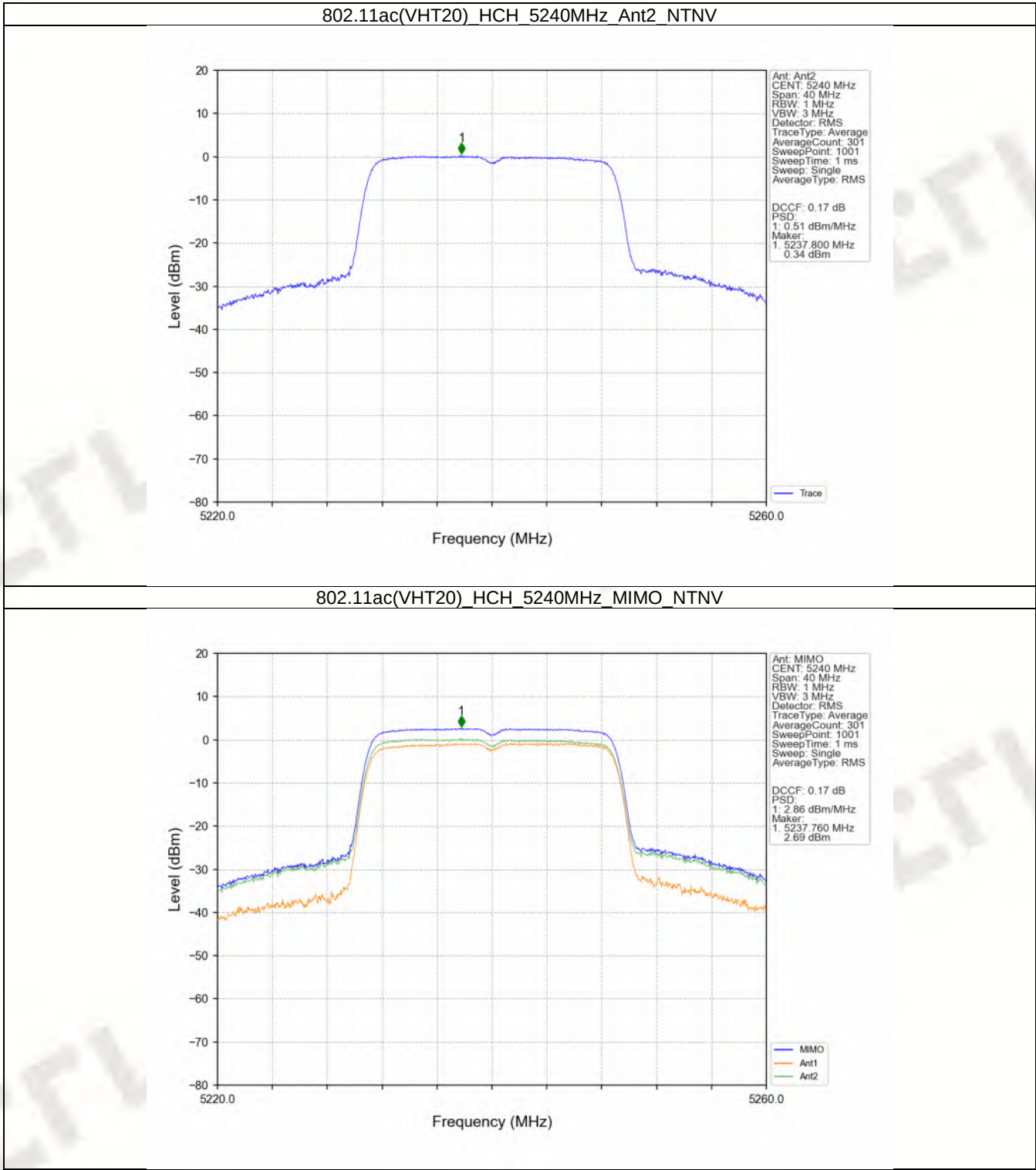
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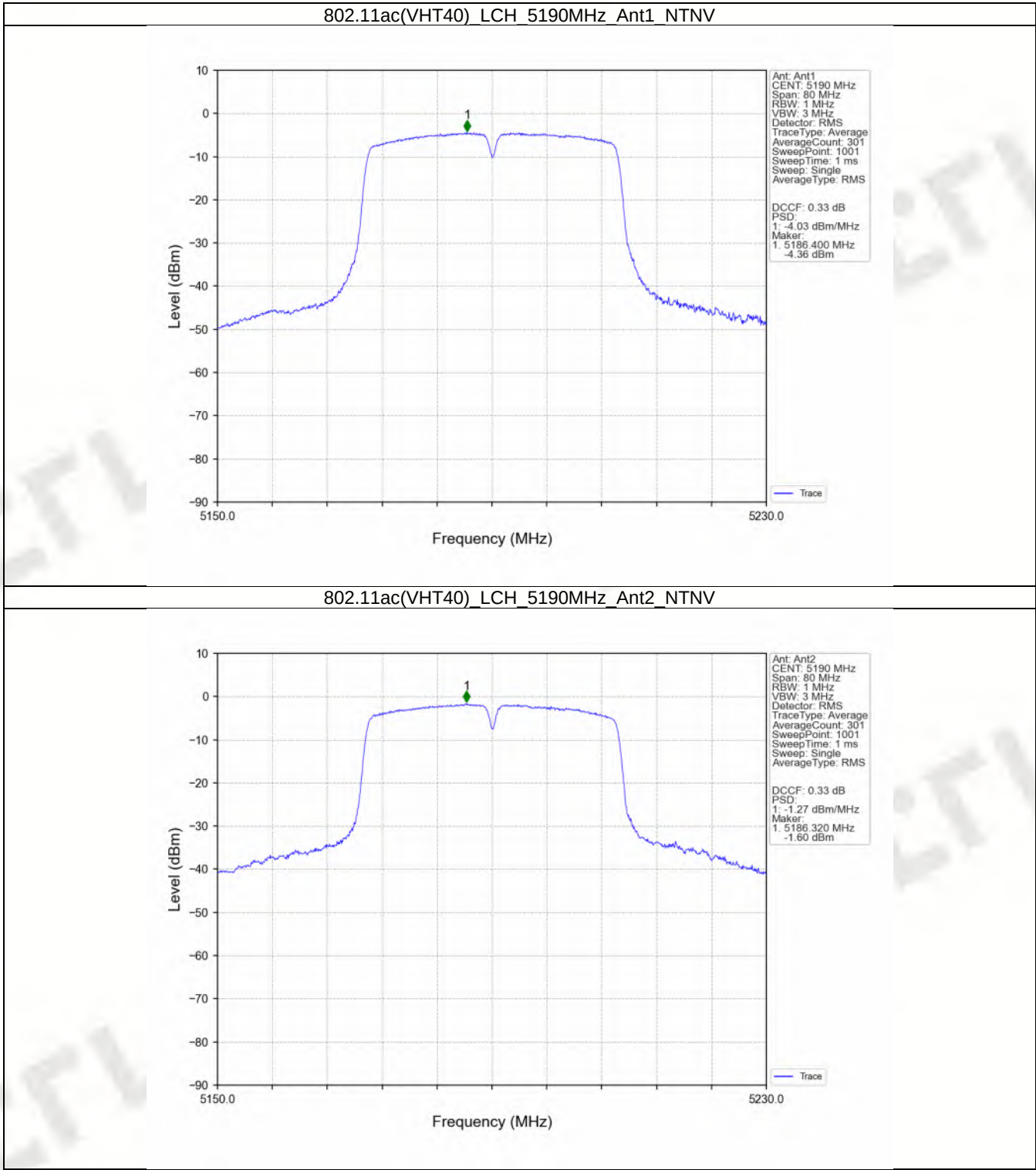
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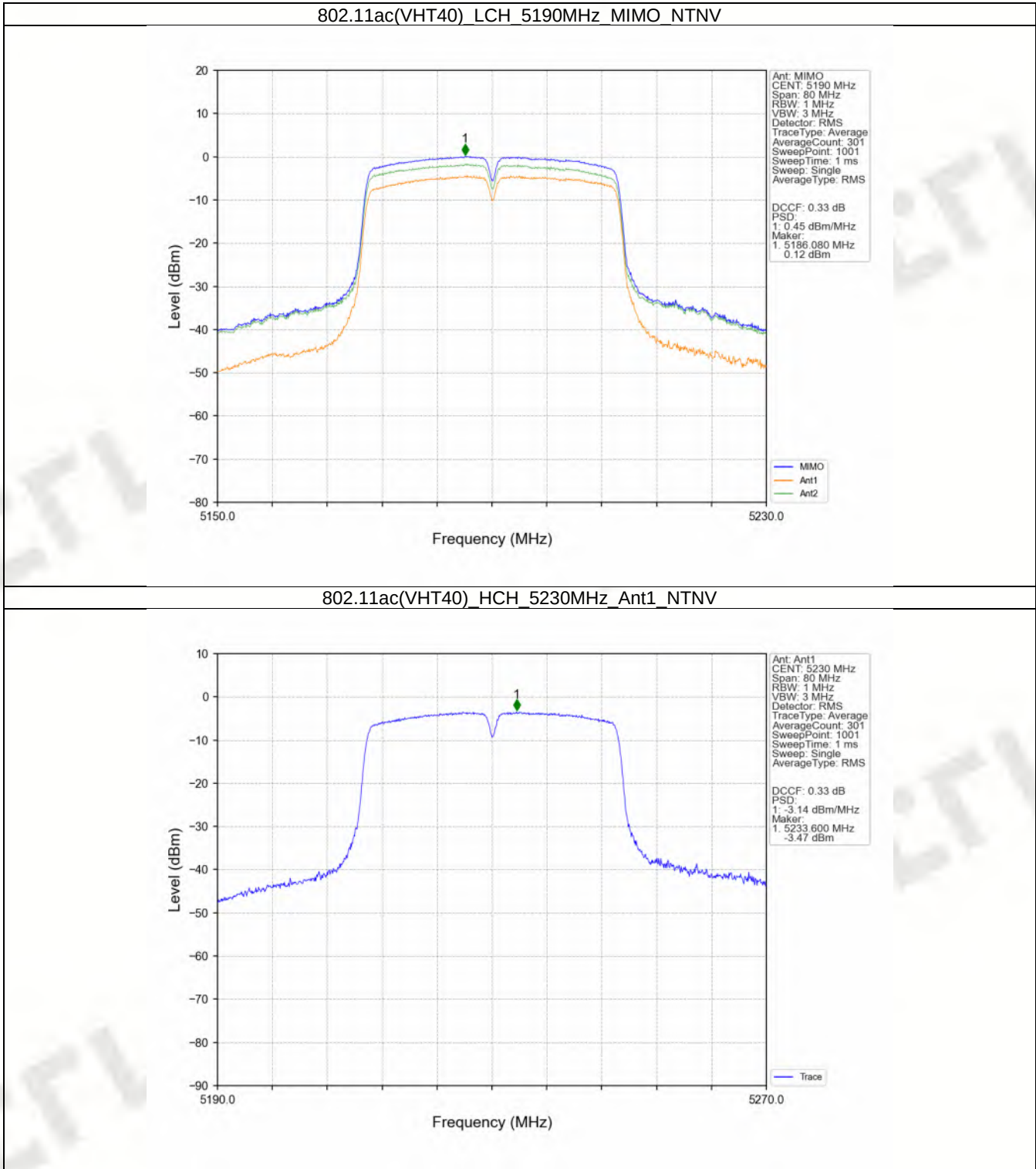
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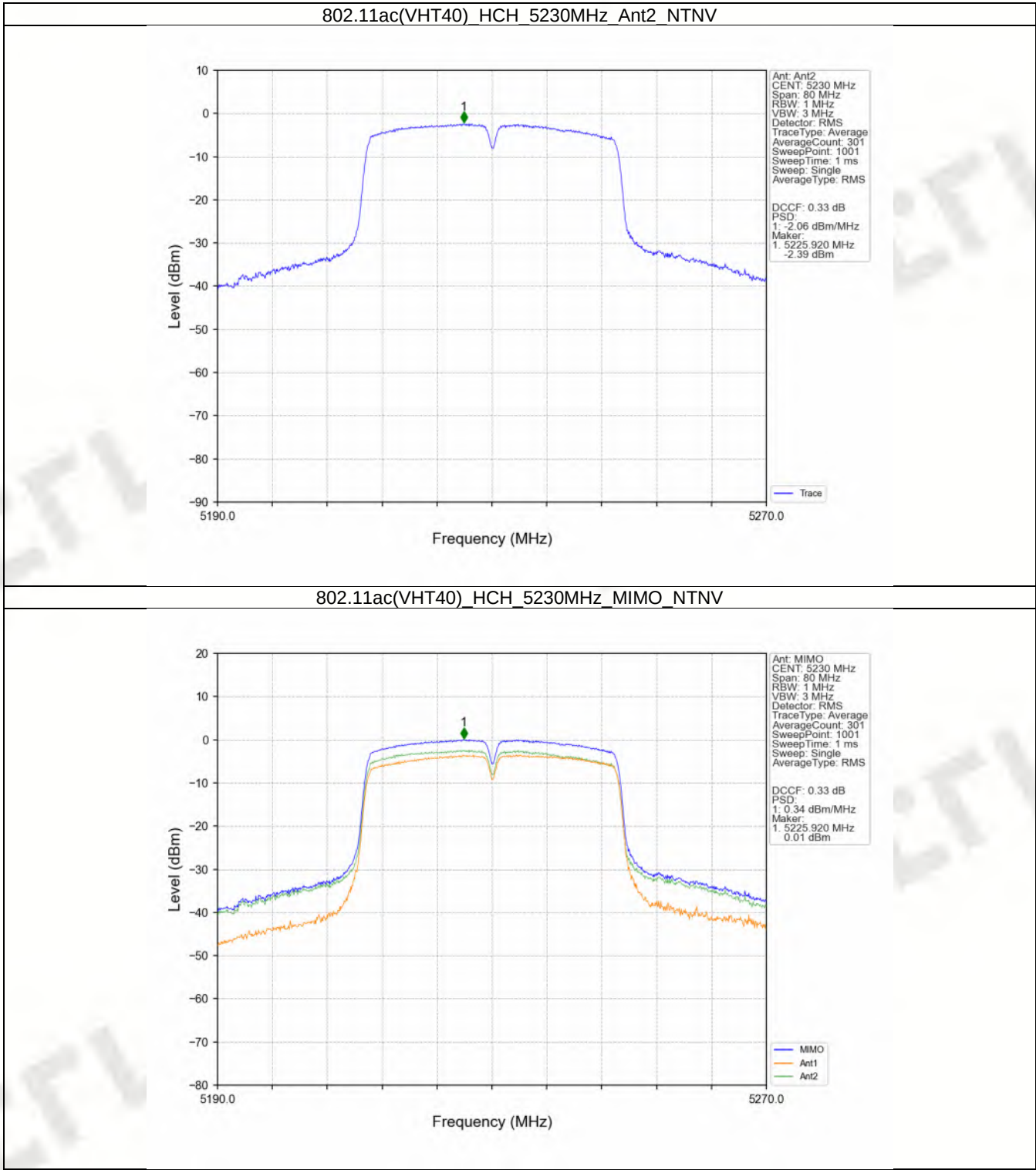
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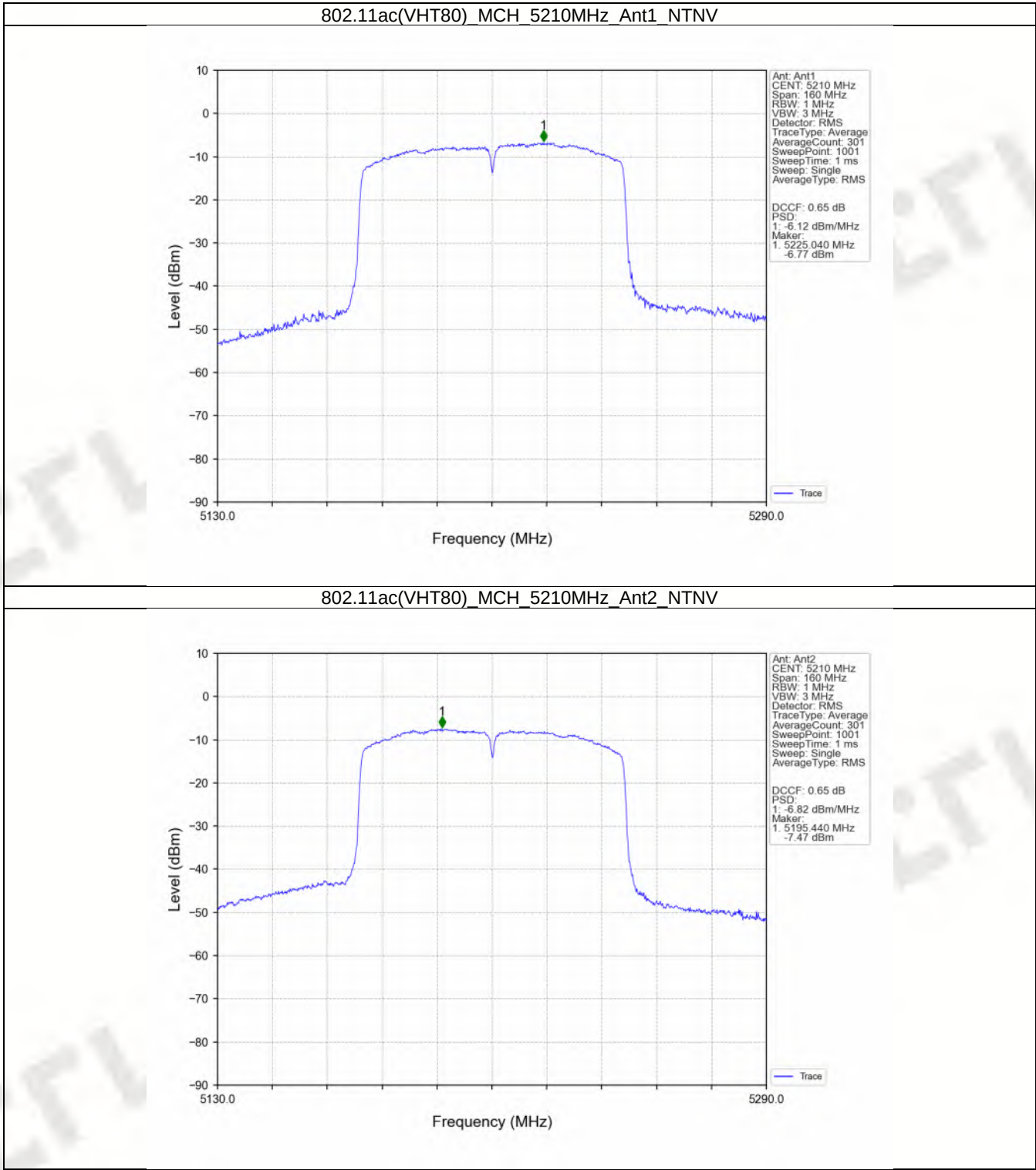
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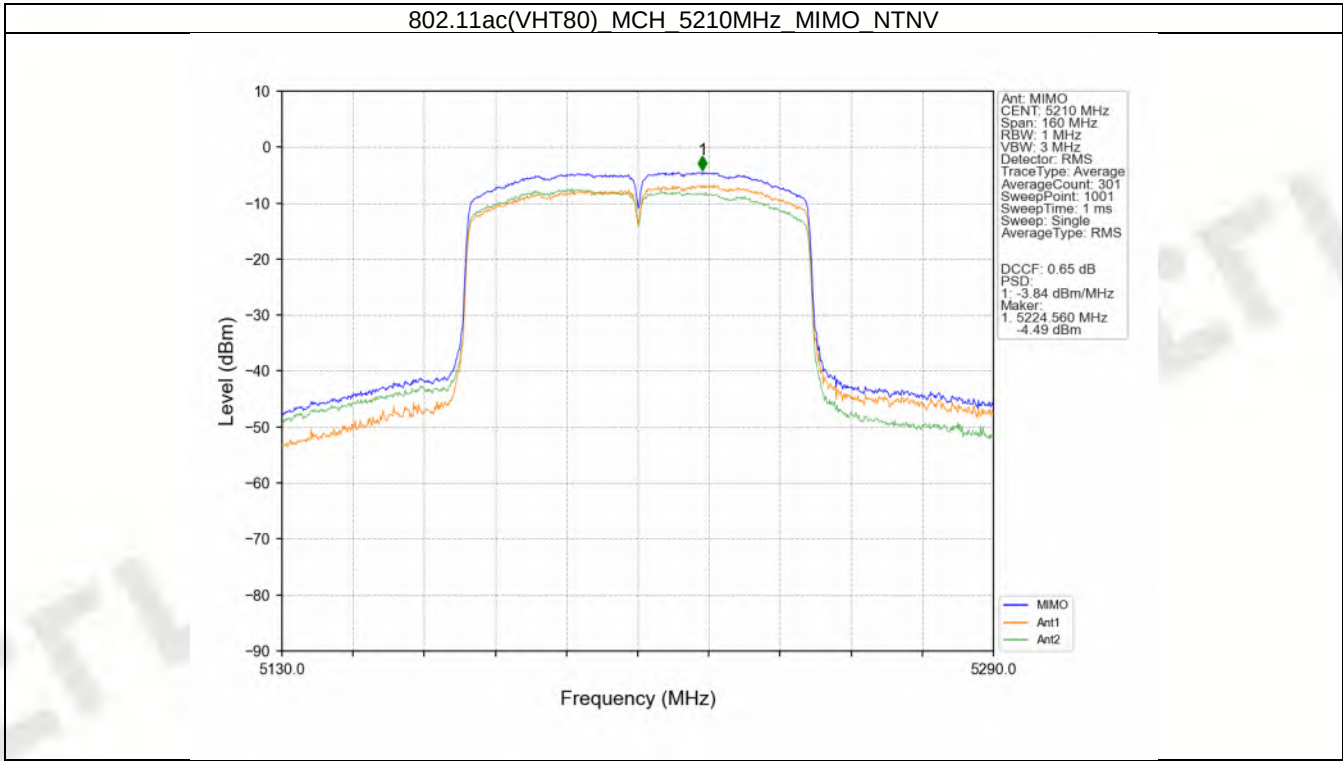
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FCCID: 2BCMY-LINCSTATIONE1

5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5180	20	102	5179.988	5150 to 5250	Pass
				120	5179.988	5150 to 5250	Pass
				138	5179.988	5150 to 5250	Pass
			-30	120	5179.988	5150 to 5250	Pass
			-20	120	5179.988	5150 to 5250	Pass
			-10	120	5179.988	5150 to 5250	Pass
			0	120	5179.988	5150 to 5250	Pass
			10	120	5179.988	5150 to 5250	Pass
			30	120	5179.988	5150 to 5250	Pass
			40	120	5179.988	5150 to 5250	Pass
			50	120	5179.988	5150 to 5250	Pass
		5200	20	102	5199.989	5150 to 5250	Pass
				120	5199.989	5150 to 5250	Pass
				138	5199.989	5150 to 5250	Pass
			-30	120	5199.989	5150 to 5250	Pass
			-20	120	5199.989	5150 to 5250	Pass
			-10	120	5199.989	5150 to 5250	Pass
			0	120	5199.989	5150 to 5250	Pass
			10	120	5199.989	5150 to 5250	Pass
			30	120	5199.989	5150 to 5250	Pass
			40	120	5199.989	5150 to 5250	Pass
			50	120	5199.989	5150 to 5250	Pass
		5240	20	102	5239.989	5150 to 5250	Pass
				120	5239.989	5150 to 5250	Pass
				138	5239.989	5150 to 5250	Pass
			-30	120	5239.989	5150 to 5250	Pass
			-20	120	5239.989	5150 to 5250	Pass
			-10	120	5239.989	5150 to 5250	Pass
			0	120	5239.988	5150 to 5250	Pass
			10	120	5239.989	5150 to 5250	Pass
			30	120	5239.989	5150 to 5250	Pass
			40	120	5239.988	5150 to 5250	Pass
			50	120	5239.989	5150 to 5250	Pass
		5190	20	102	5189.989	5150 to 5250	Pass
				120	5189.989	5150 to 5250	Pass
				138	5189.989	5150 to 5250	Pass
			-30	120	5189.989	5150 to 5250	Pass
			-20	120	5189.989	5150 to 5250	Pass
			-10	120	5189.989	5150 to 5250	Pass
			0	120	5189.989	5150 to 5250	Pass
			10	120	5189.989	5150 to 5250	Pass
			30	120	5189.989	5150 to 5250	Pass
			40	120	5189.989	5150 to 5250	Pass
			50	120	5189.989	5150 to 5250	Pass
		5230	20	102	5229.989	5150 to 5250	Pass

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				120	5229.989	5150 to 5250	Pass
				138	5229.989	5150 to 5250	Pass
			-30	120	5229.989	5150 to 5250	Pass
			-20	120	5229.989	5150 to 5250	Pass
			-10	120	5229.989	5150 to 5250	Pass
			0	120	5229.989	5150 to 5250	Pass
			10	120	5229.989	5150 to 5250	Pass
			30	120	5229.989	5150 to 5250	Pass
			40	120	5229.989	5150 to 5250	Pass
			50	120	5229.989	5150 to 5250	Pass
		5210	20	102	5209.988	5150 to 5250	Pass
				120	5209.988	5150 to 5250	Pass
				138	5209.988	5150 to 5250	Pass
			-30	120	5209.988	5150 to 5250	Pass
			-20	120	5209.988	5150 to 5250	Pass
			-10	120	5209.988	5150 to 5250	Pass
			0	120	5209.988	5150 to 5250	Pass
			10	120	5209.988	5150 to 5250	Pass
			30	120	5209.988	5150 to 5250	Pass
			40	120	5209.988	5150 to 5250	Pass
			50	120	5209.988	5150 to 5250	Pass