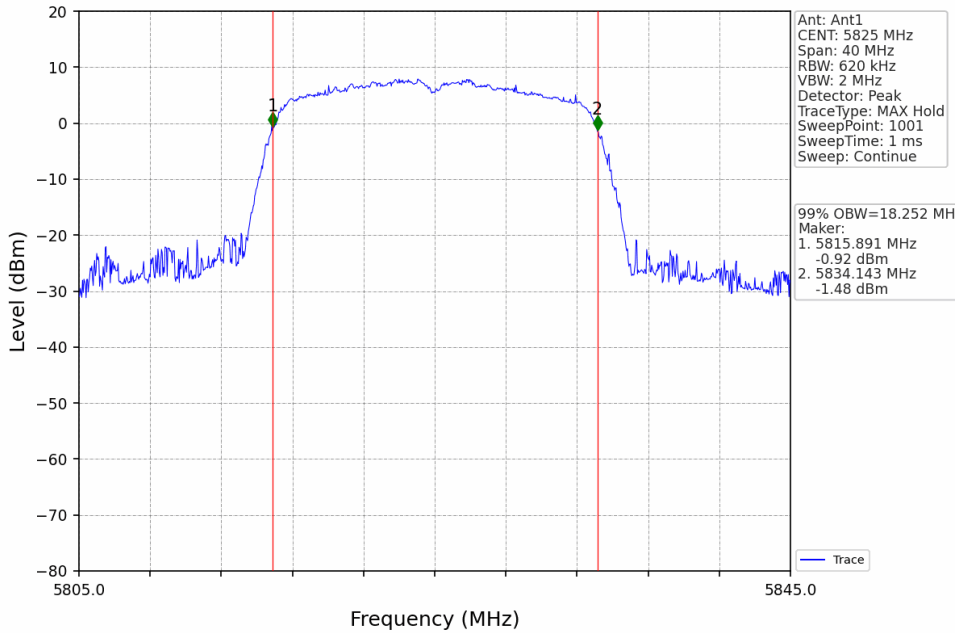
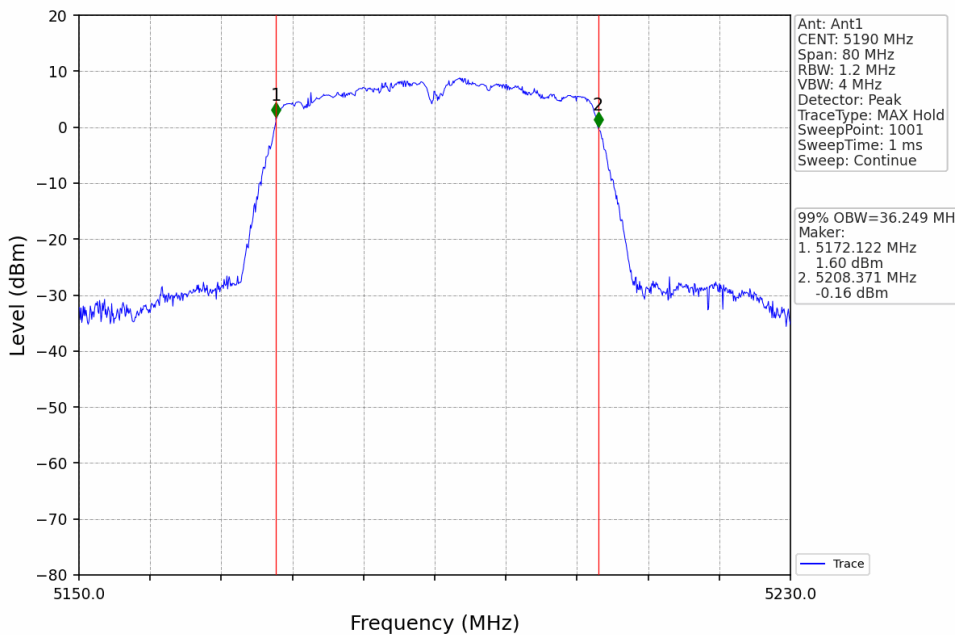


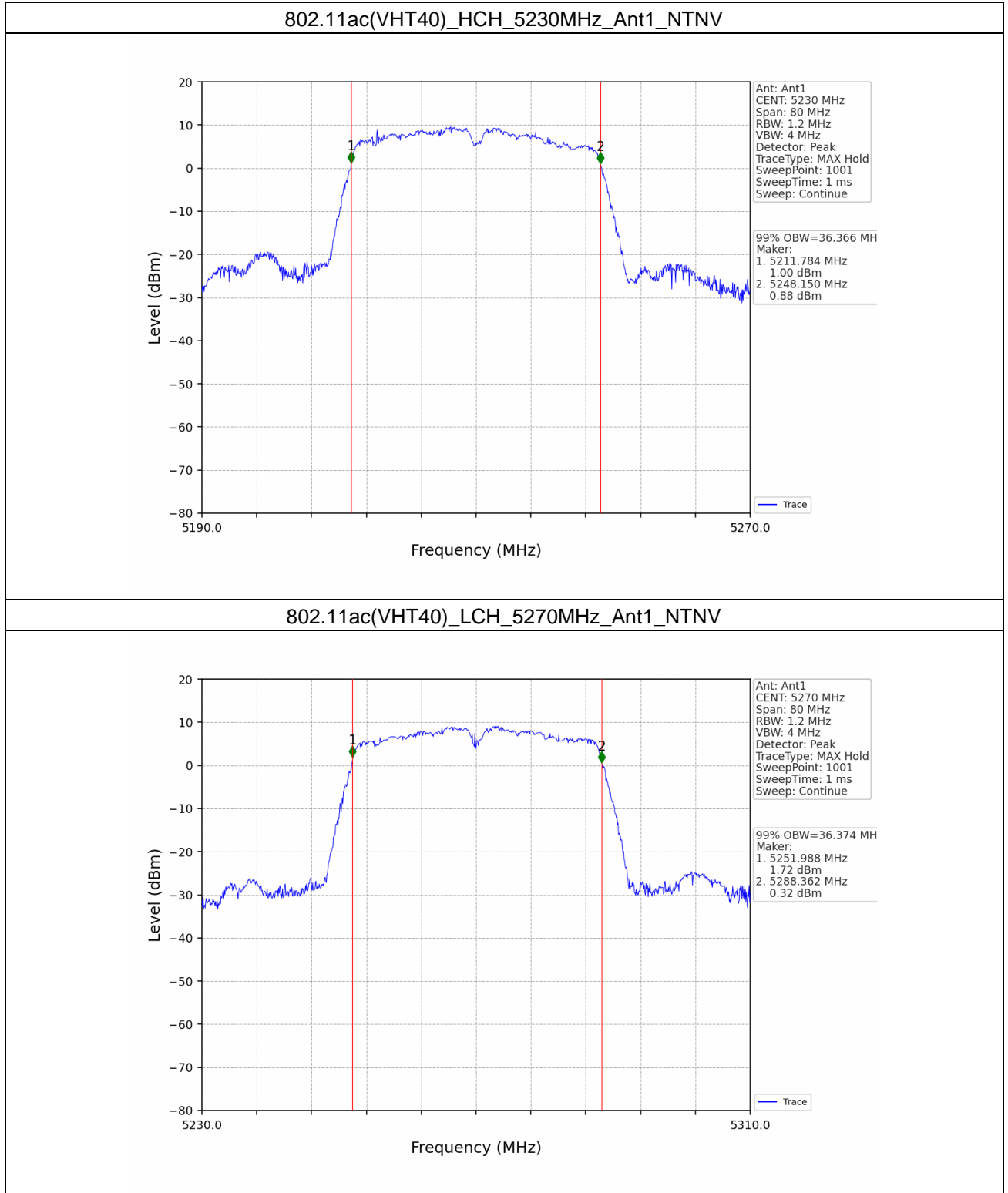
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



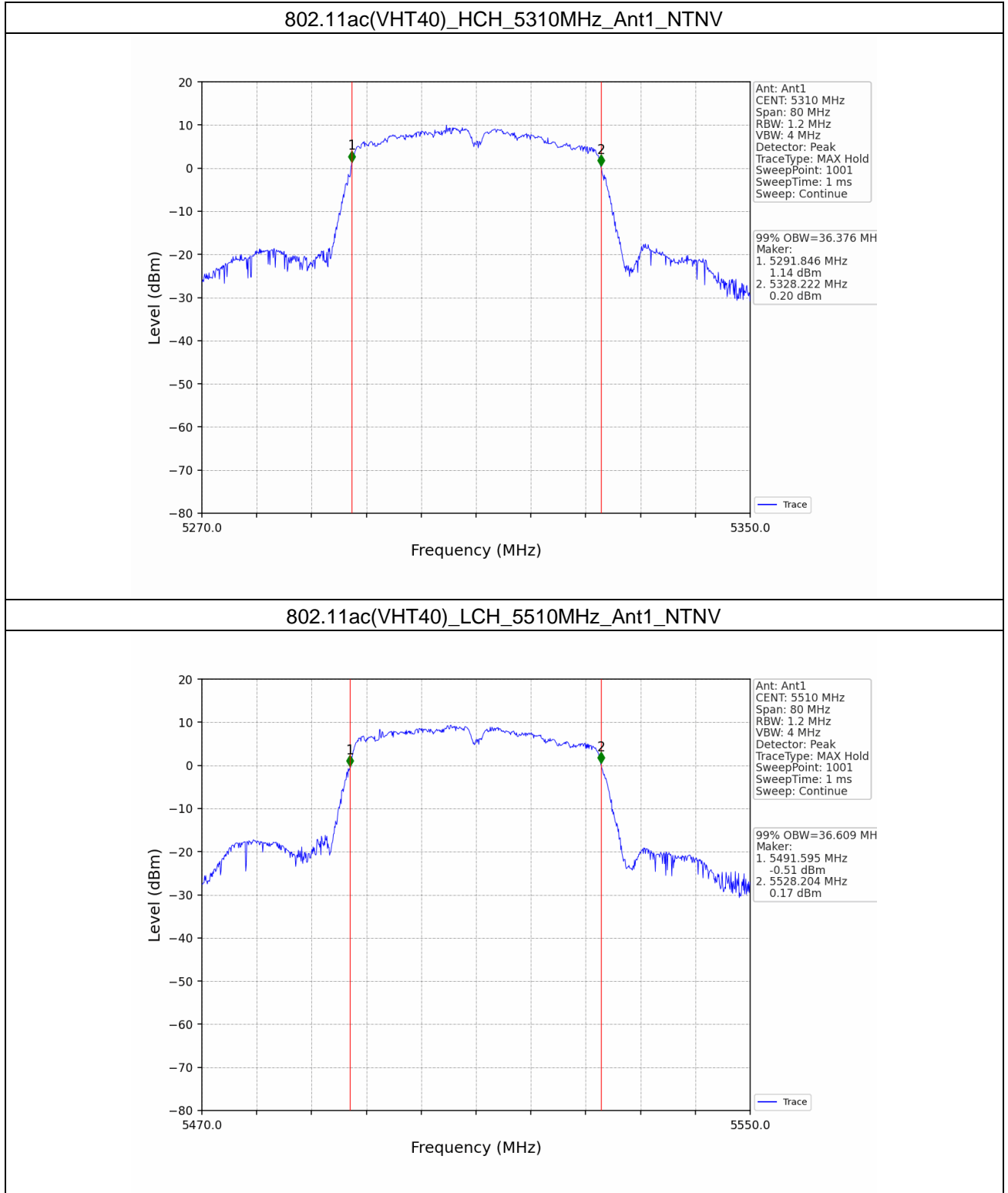
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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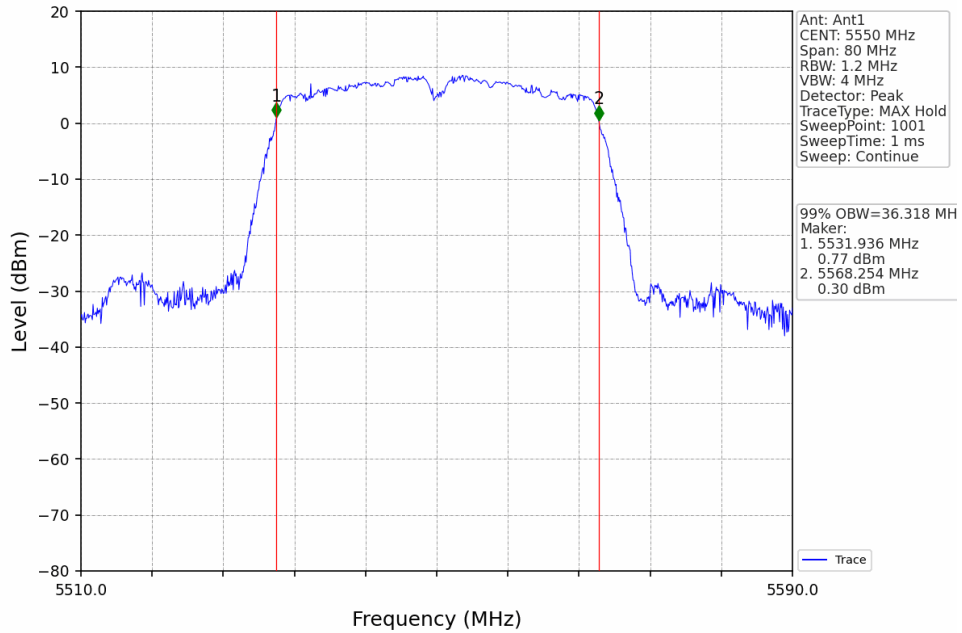


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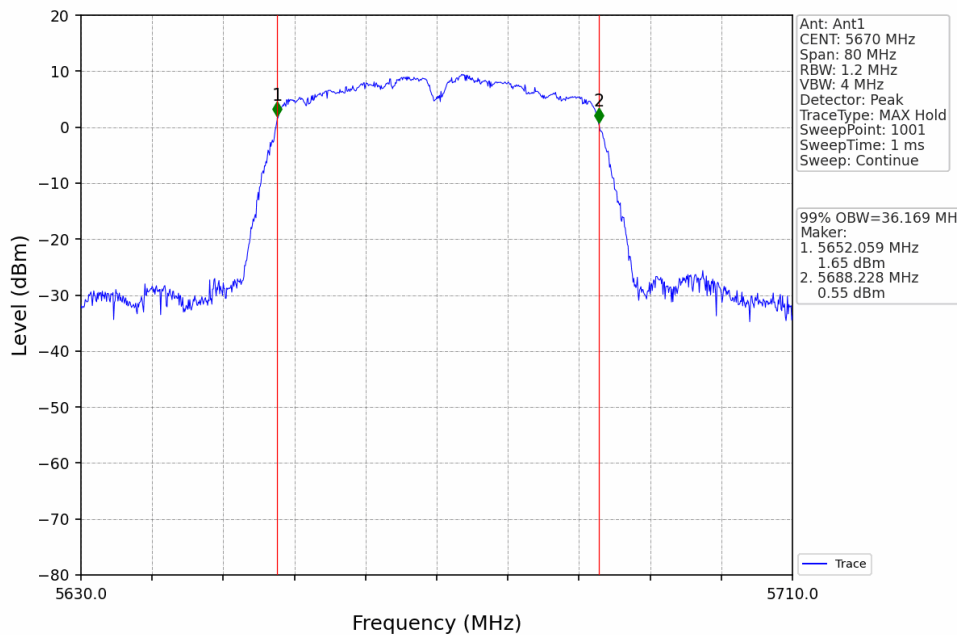


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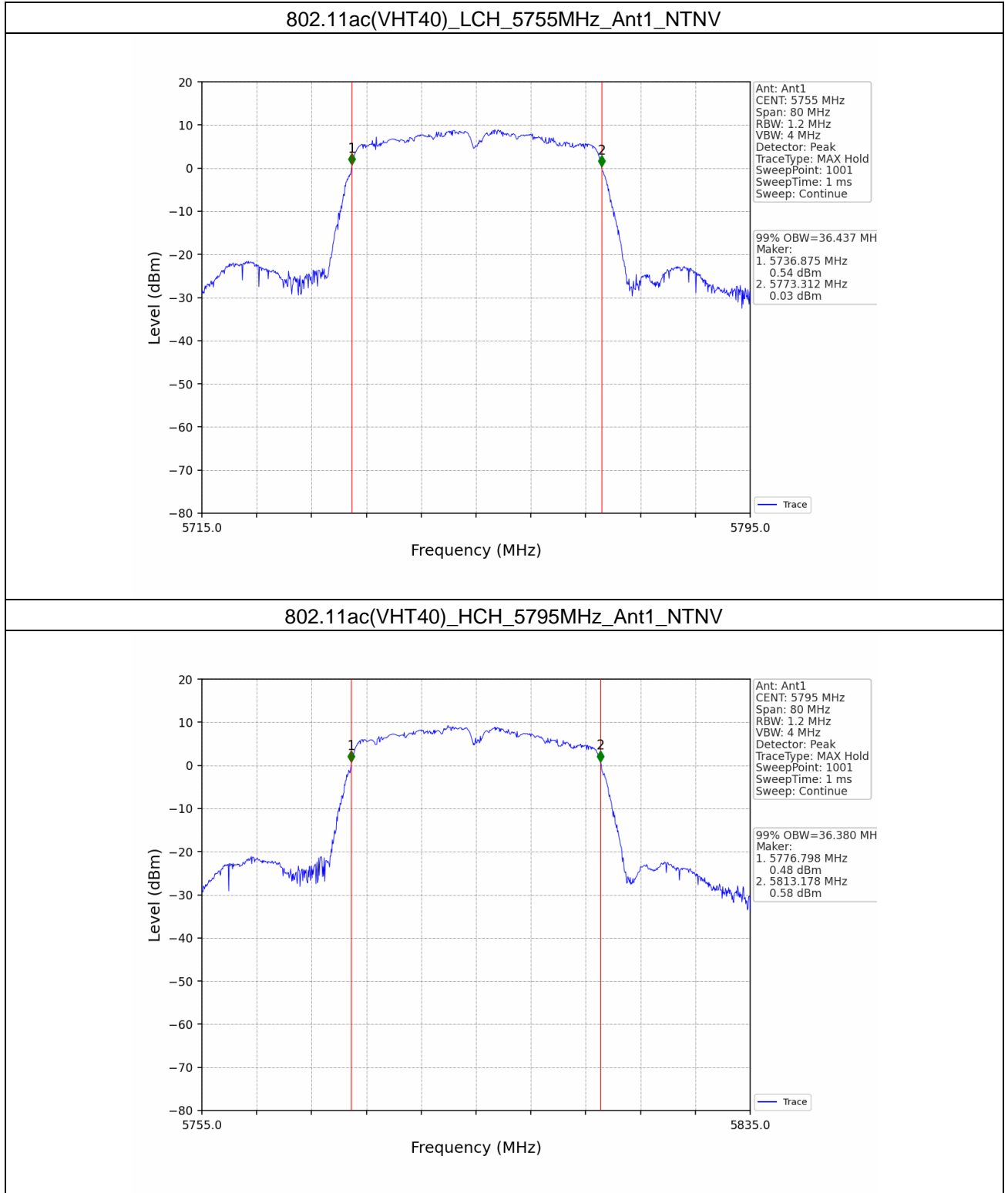
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV

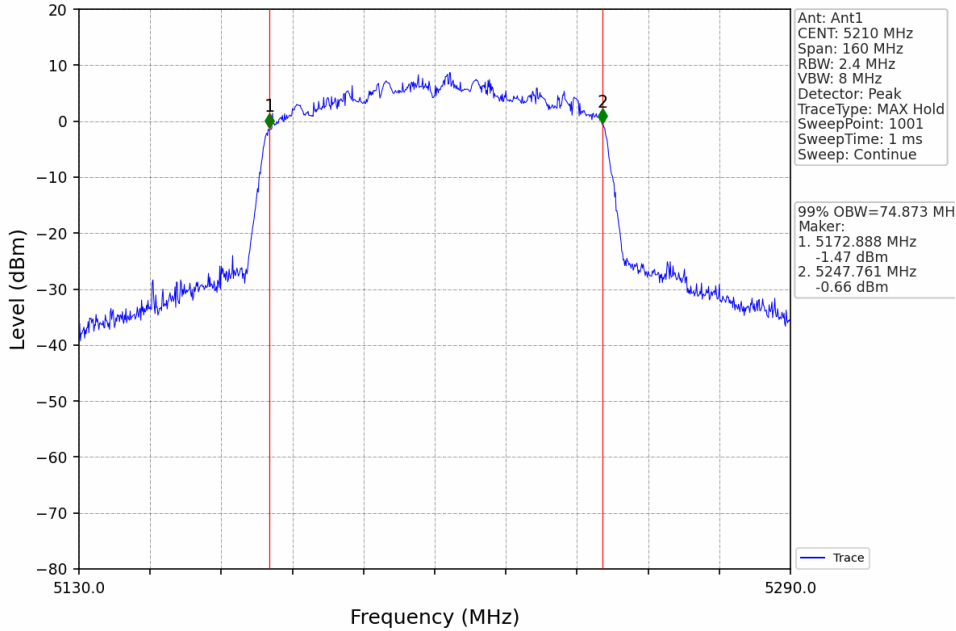


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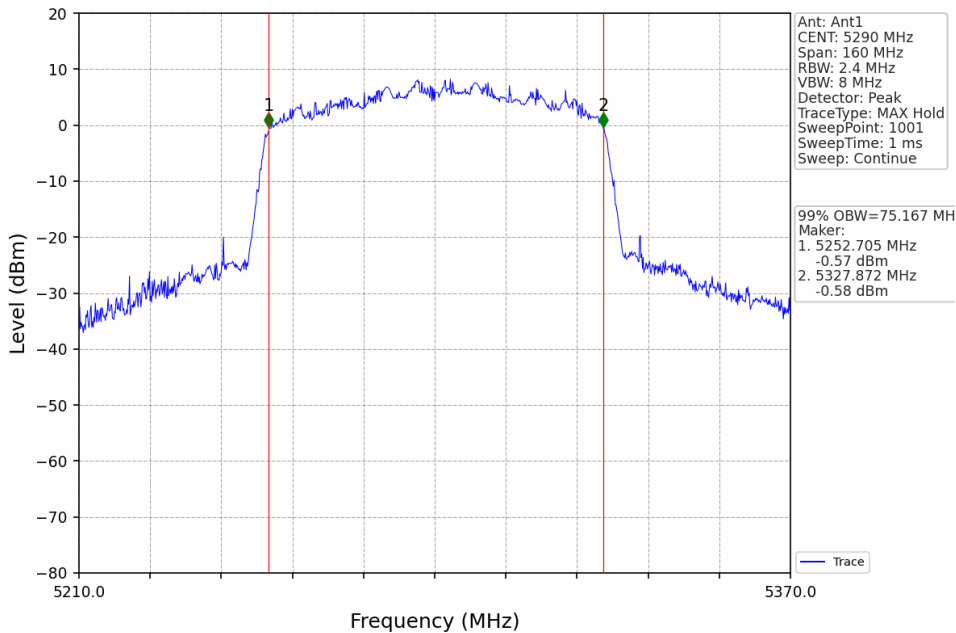


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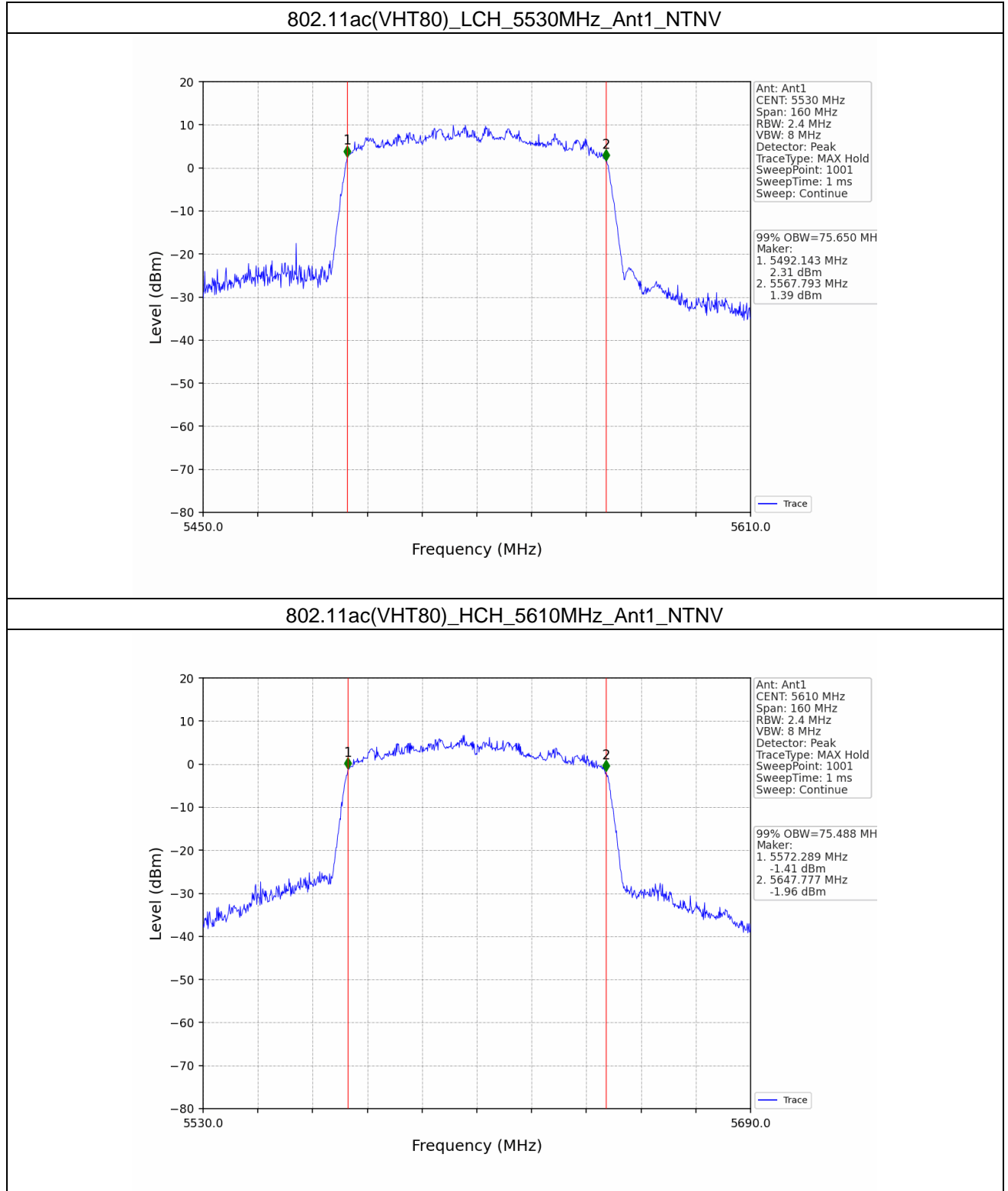
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



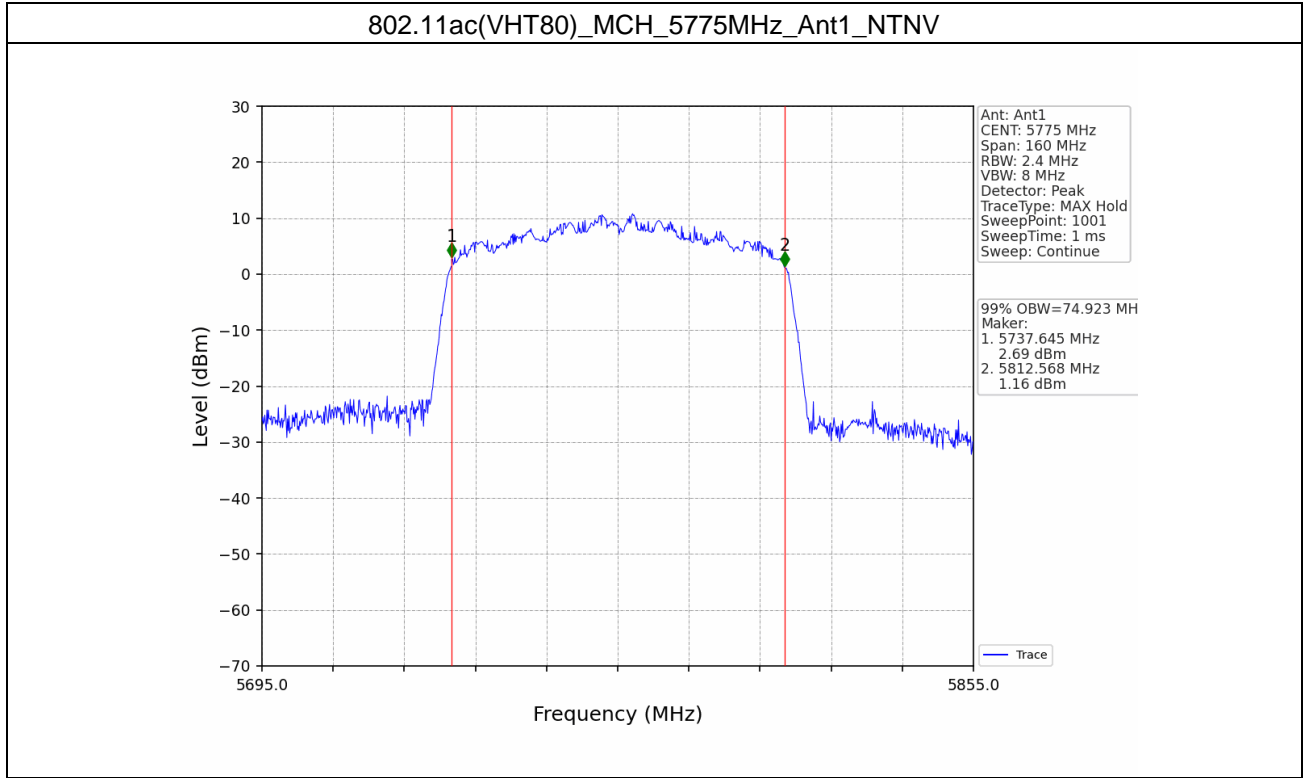
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



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2.2 6dB BW

2.2.1 Test Result

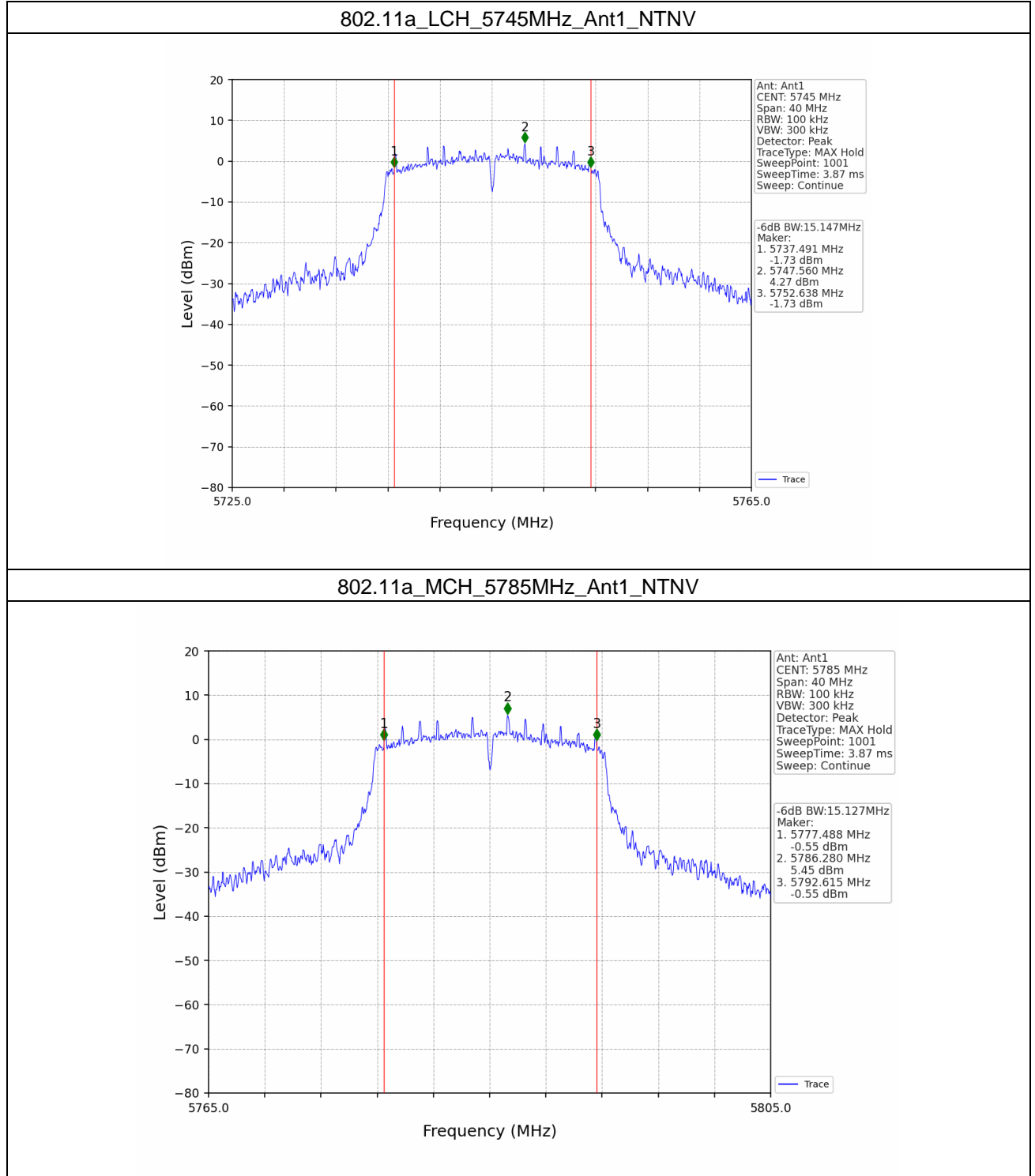
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.147	>=0.5	Pass
		5785	1	15.127	>=0.5	Pass
		5825	1	15.133	>=0.5	Pass
802.11n (HT20)	MIMO	5745	1	15.177	>=0.5	Pass
		5785	1	15.152	>=0.5	Pass
		5825	1	15.138	>=0.5	Pass
802.11n (HT40)	MIMO	5755	1	35.159	>=0.5	Pass
		5795	1	35.132	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	15.152	>=0.5	Pass
		5785	1	15.155	>=0.5	Pass
		5825	1	15.158	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	35.159	>=0.5	Pass
		5795	1	35.139	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	68.855	>=0.5	Pass



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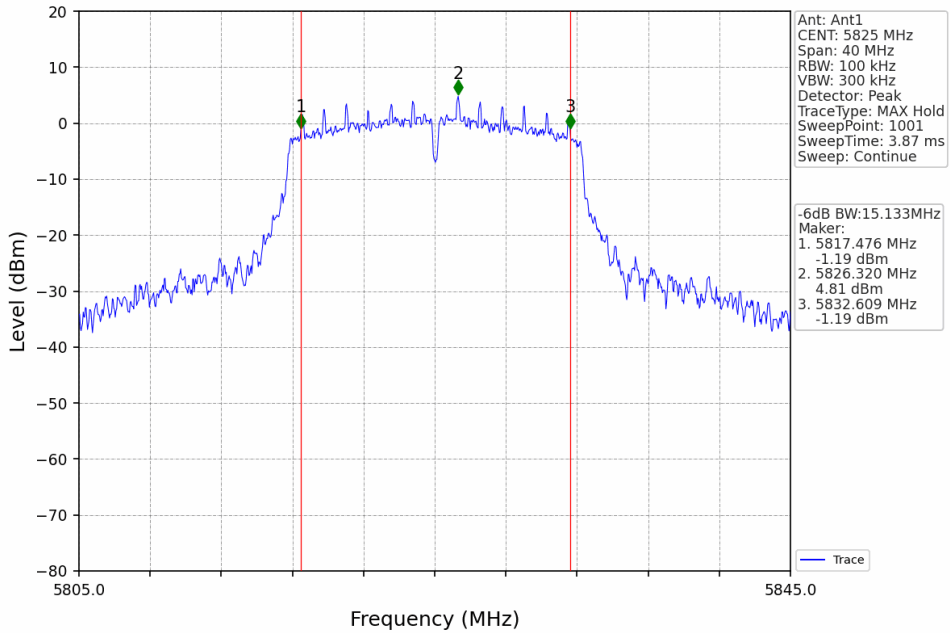
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

2.2.2 Test Graph

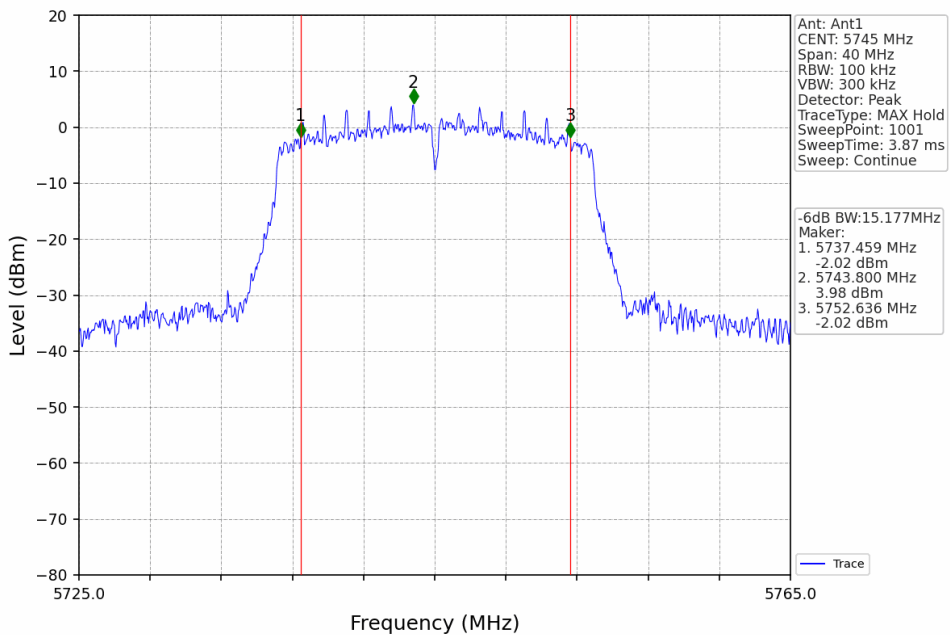


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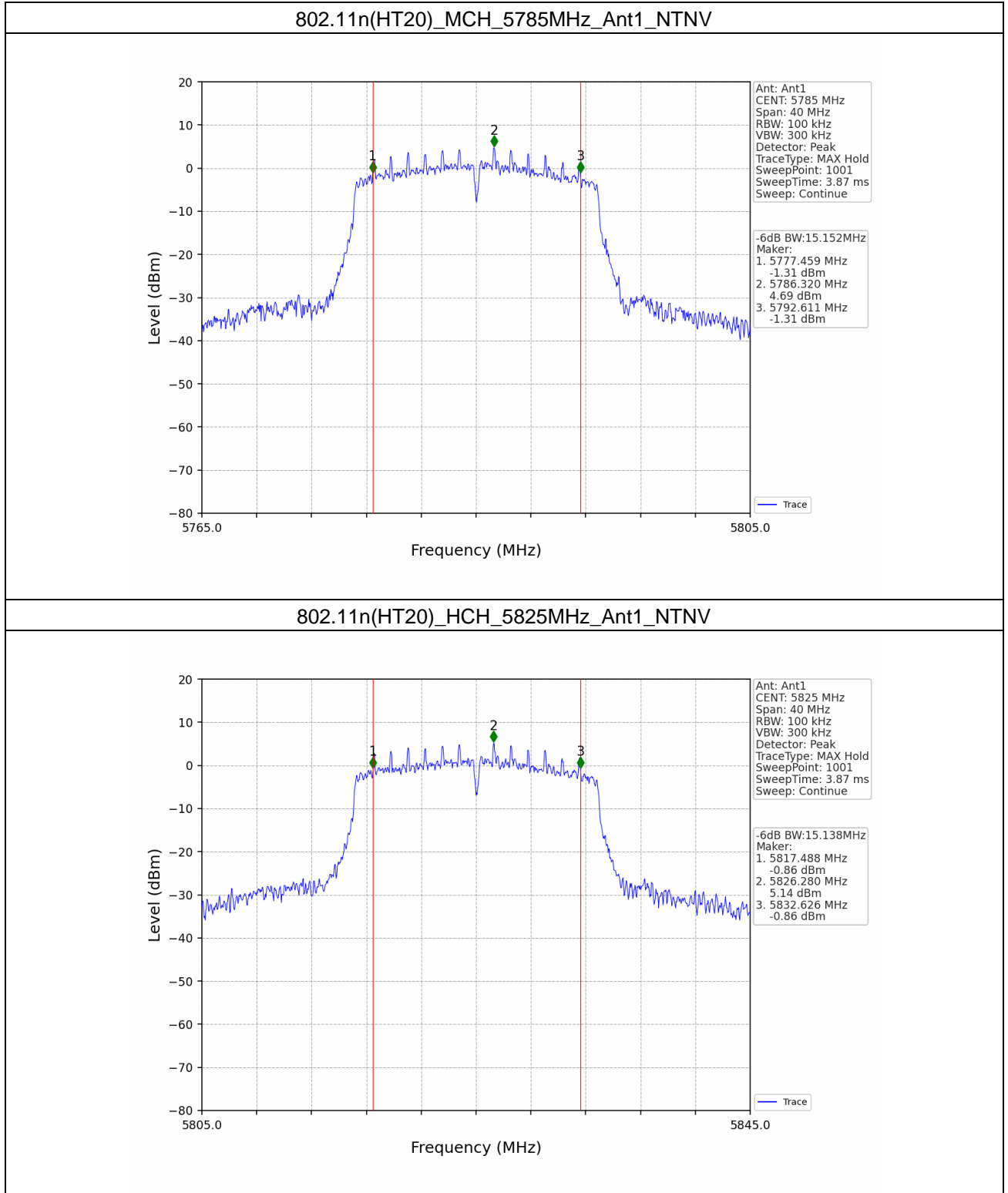
802.11a_HCH_5825MHz_Ant1_NTNV



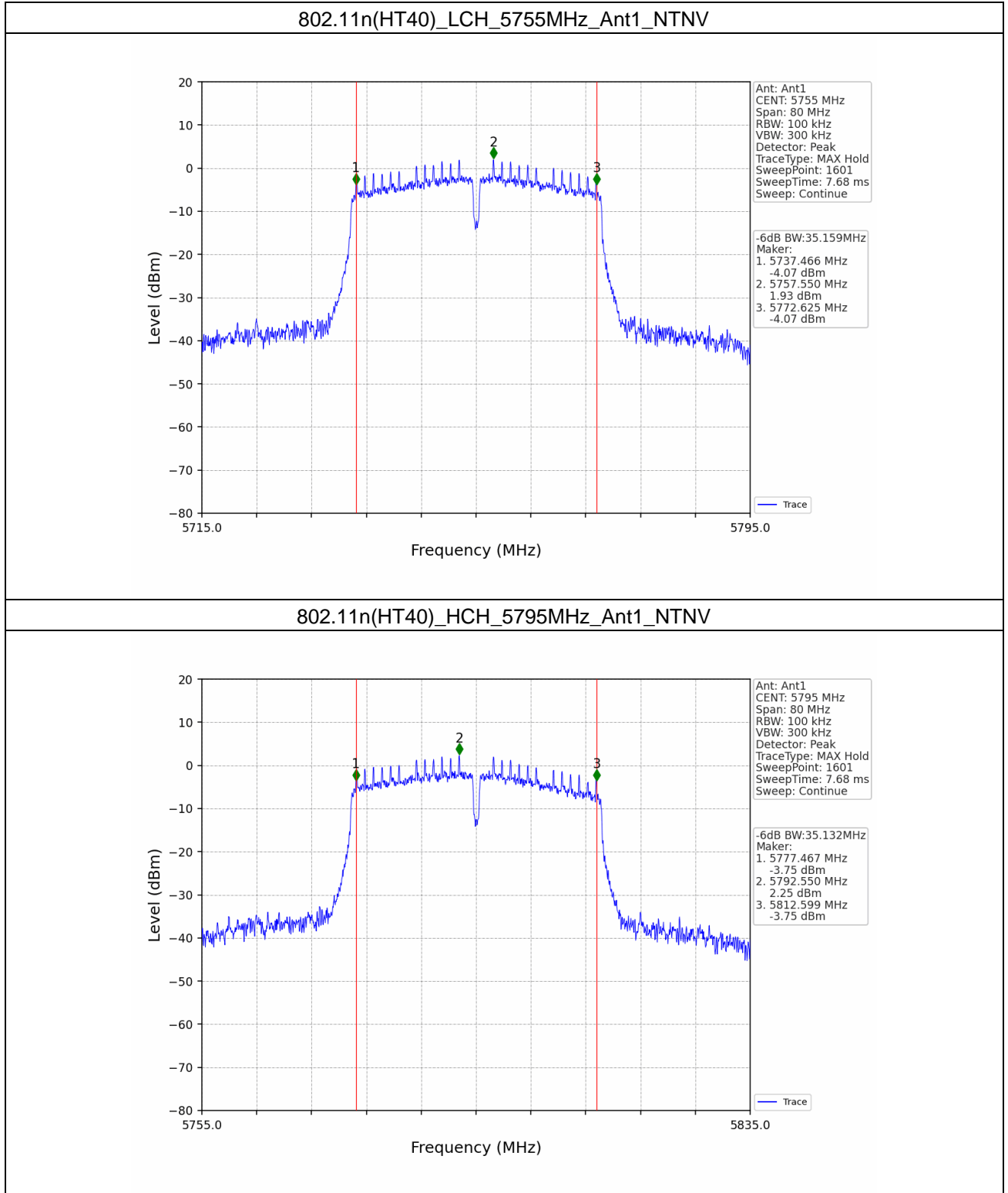
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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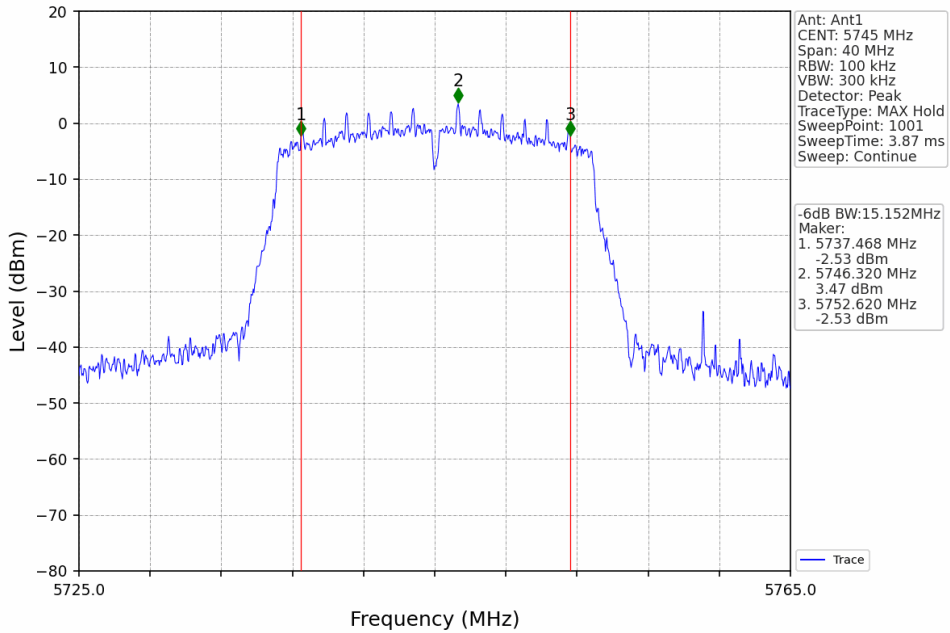


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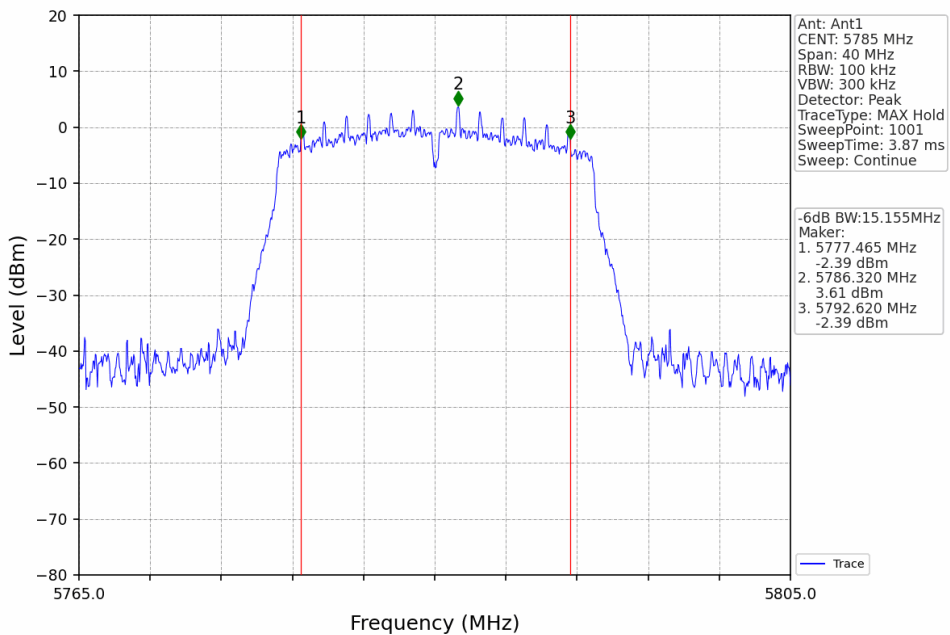


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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

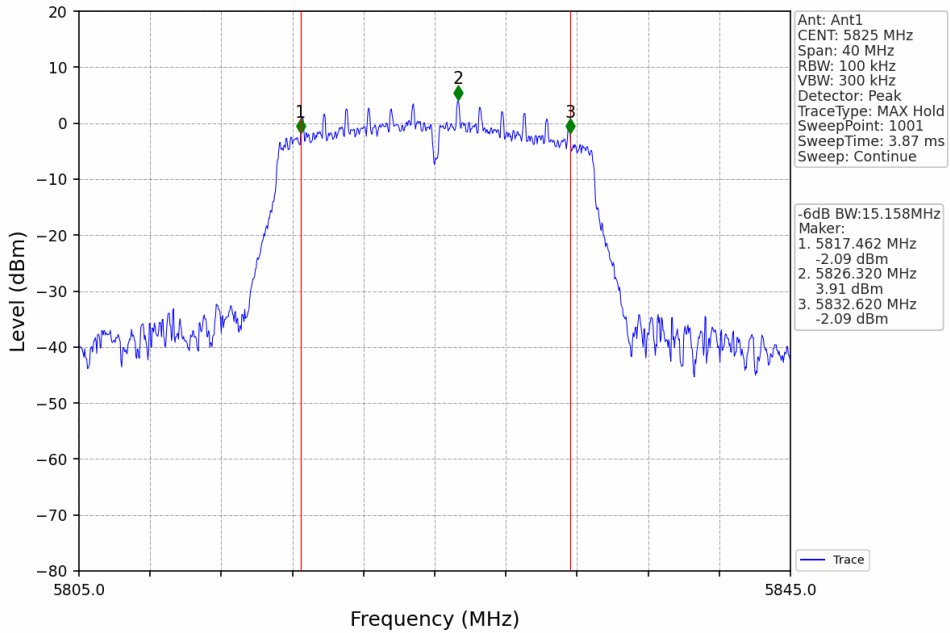


802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

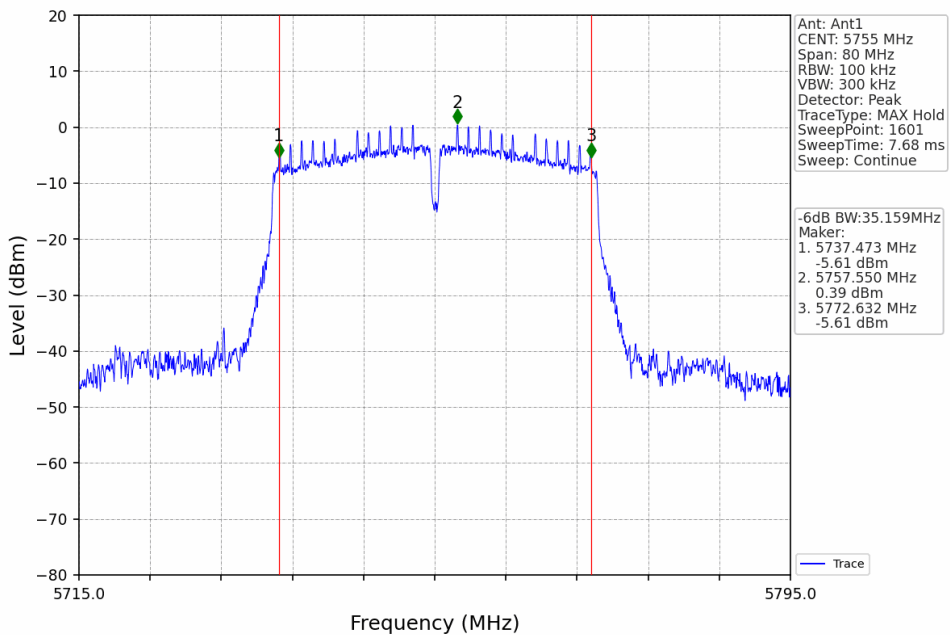


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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV

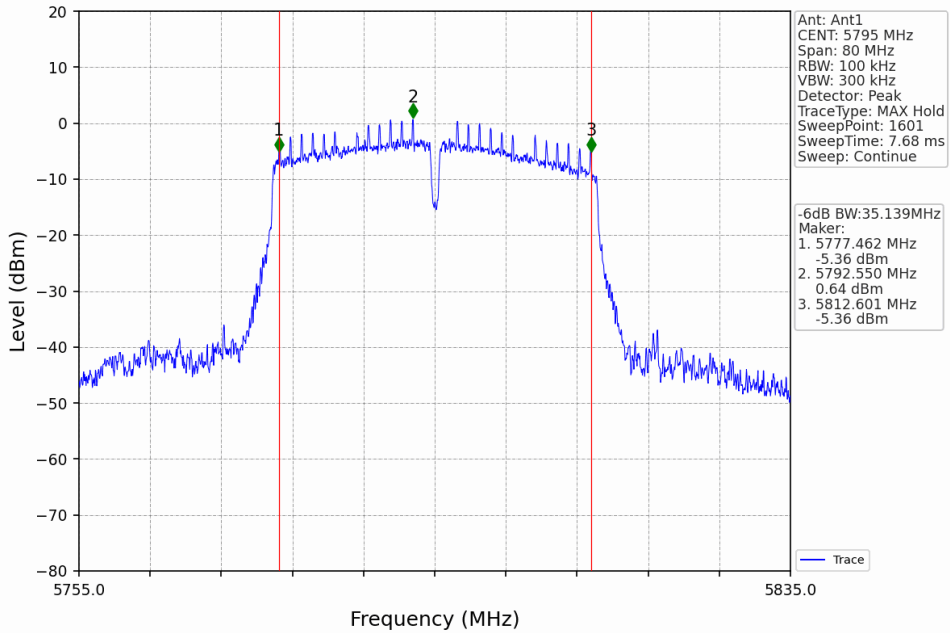


802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

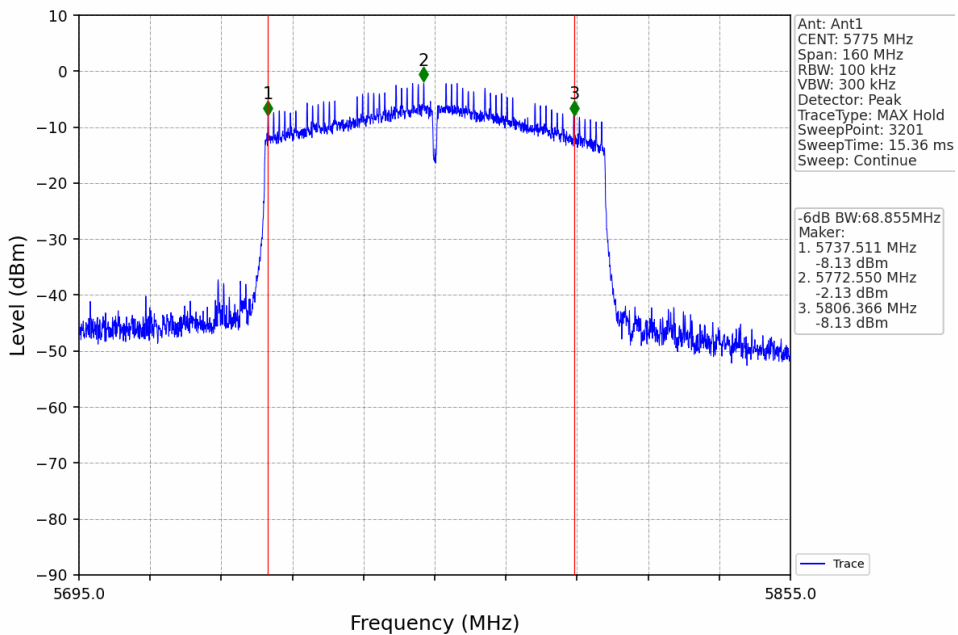


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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2.3 26dB BW

2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	22.219	/	Pass
		5200	1	19.996	/	Pass
		5240	1	22.268	/	Pass
		5260	1	24.462	/	Pass
		5300	1	23.268	/	Pass
		5320	1	24.811	/	Pass
		5500	1	22.304	/	Pass
		5580	1	22.402	/	Pass
802.11n (HT20)	MIMO	5180	1	20.256	/	Pass
		5200	1	20.182	/	Pass
		5240	1	20.166	/	Pass
		5260	1	20.229	/	Pass
		5300	1	20.735	/	Pass
		5320	1	20.176	/	Pass
		5500	1	20.117	/	Pass
		5580	1	20.167	/	Pass
802.11n (HT40)	MIMO	5190	1	40.646	/	Pass
		5230	1	40.324	/	Pass
		5270	1	40.627	/	Pass
		5310	1	40.502	/	Pass
		5510	1	40.211	/	Pass
		5550	1	40.208	/	Pass
		5670	1	40.157	/	Pass
802.11ac (VHT20)	MIMO	5180	1	20.163	/	Pass
		5200	1	20.042	/	Pass
		5240	1	20.034	/	Pass
		5260	1	20.261	/	Pass
		5300	1	20.164	/	Pass
		5320	1	20.166	/	Pass
		5500	1	20.054	/	Pass
		5580	1	20.083	/	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240500181103

Page: 301 of 430

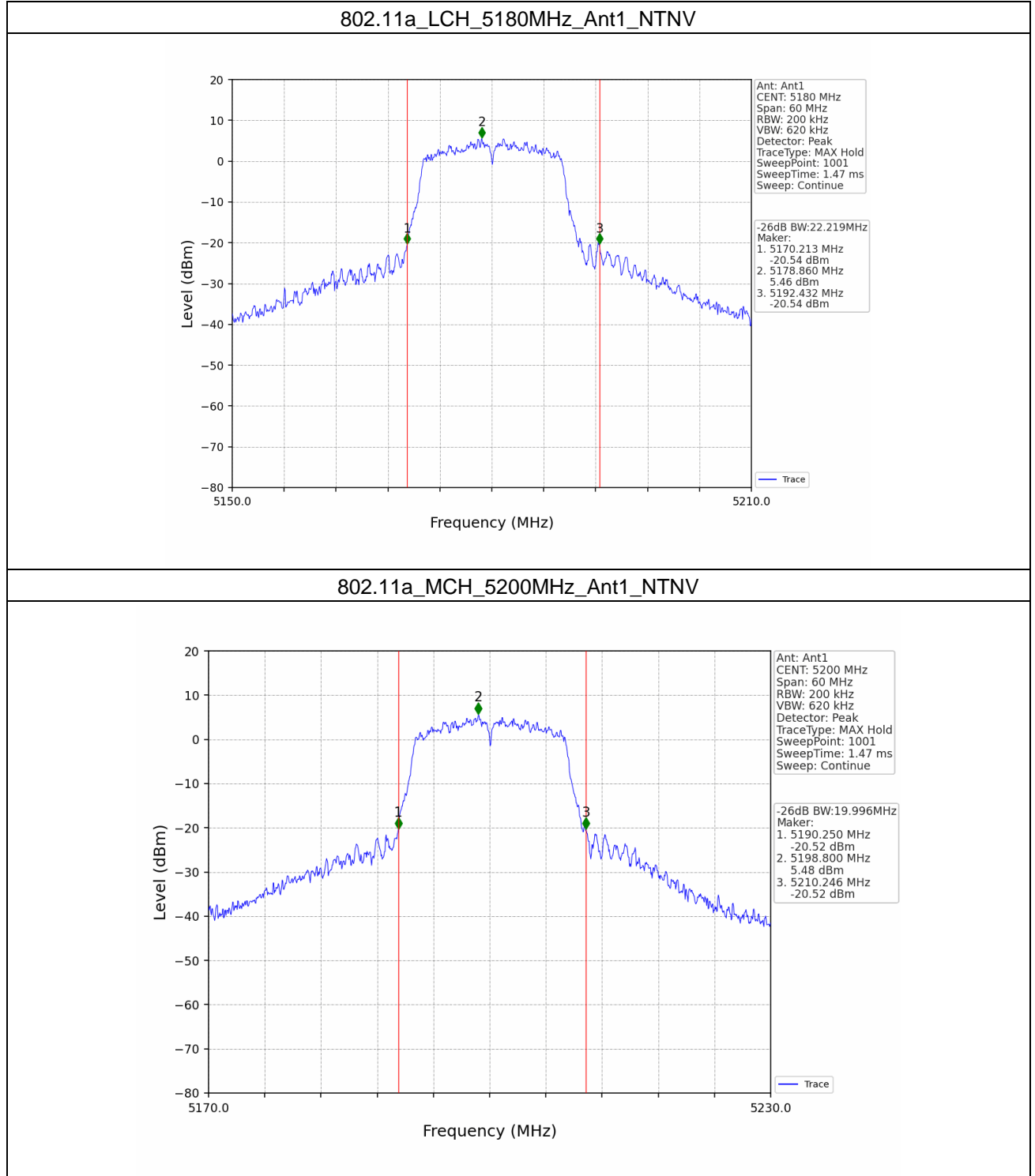
		5700	1	20.045	/	Pass
802.11ac (VHT40)	MIMO	5190	1	40.618	/	Pass
		5230	1	40.505	/	Pass
		5270	1	40.873	/	Pass
		5310	1	40.416	/	Pass
		5510	1	40.283	/	Pass
		5550	1	40.692	/	Pass
		5670	1	40.557	/	Pass
802.11ac (VHT80)	MIMO	5210	1	80.370	/	Pass
		5290	1	80.339	/	Pass
		5530	1	80.890	/	Pass
		5610	1	80.424	/	Pass



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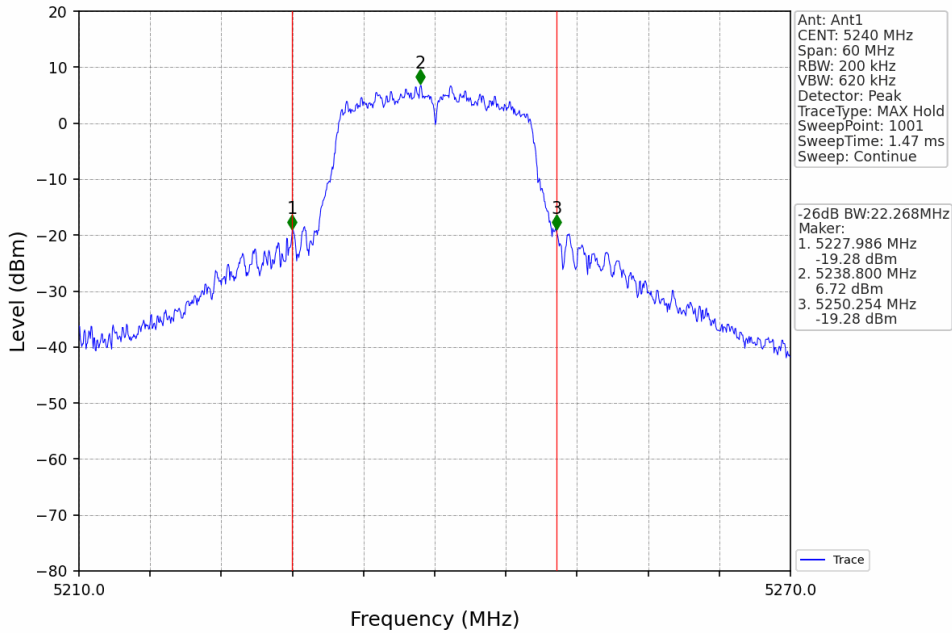
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2.3.2 Test Graph

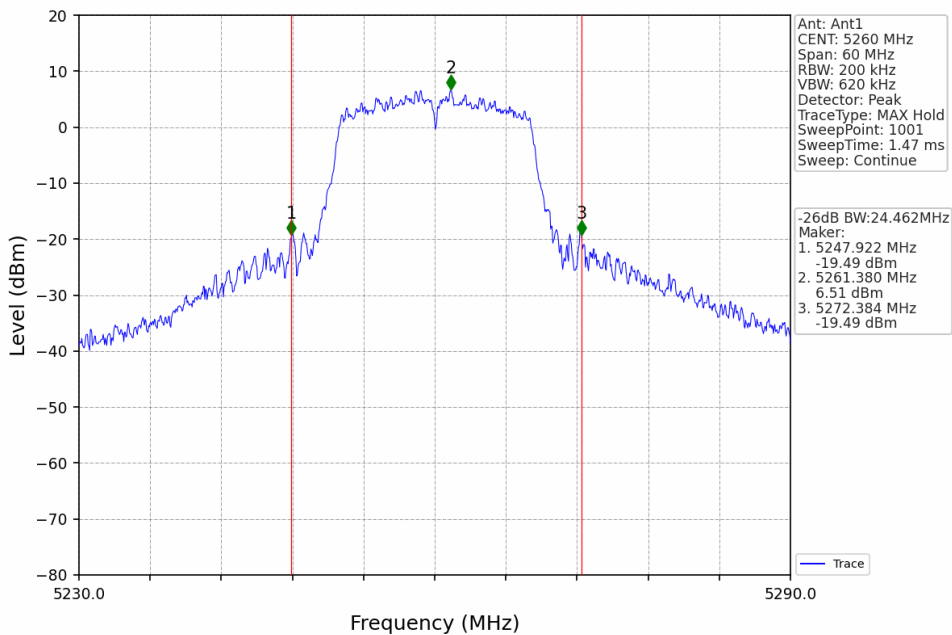


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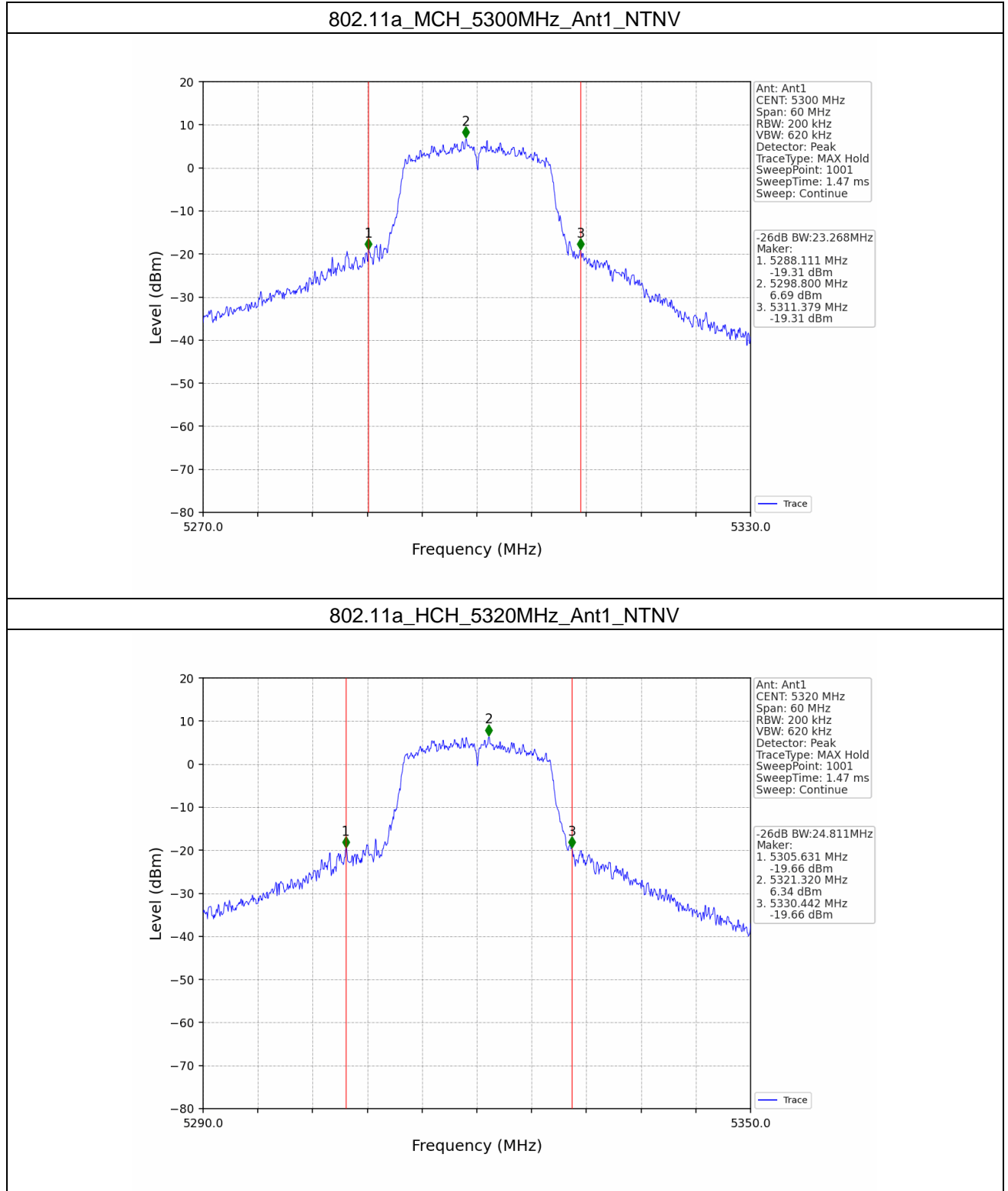
802.11a_HCH_5240MHz_Ant1_NTNV



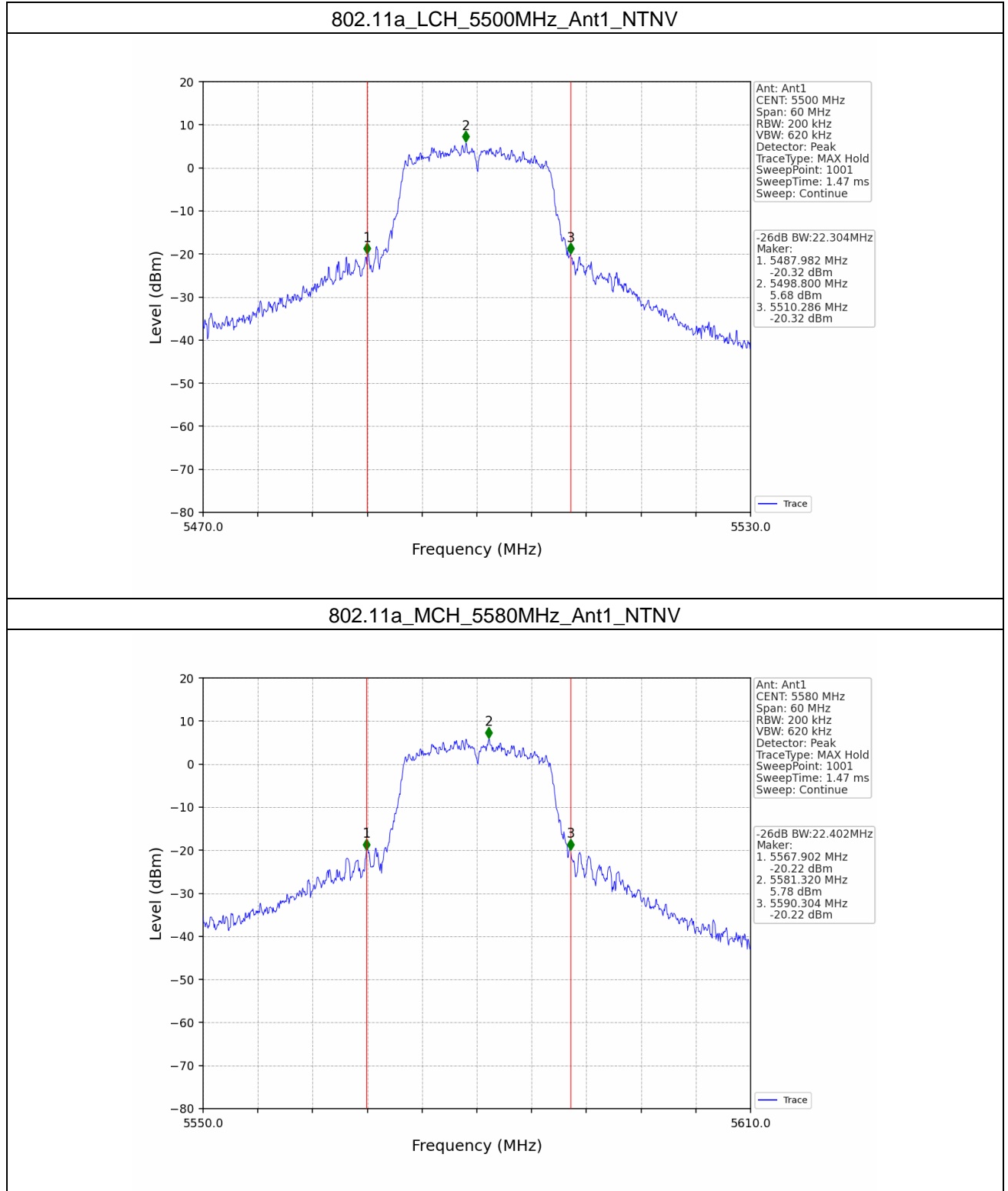
802.11a_LCH_5260MHz_Ant1_NTNV



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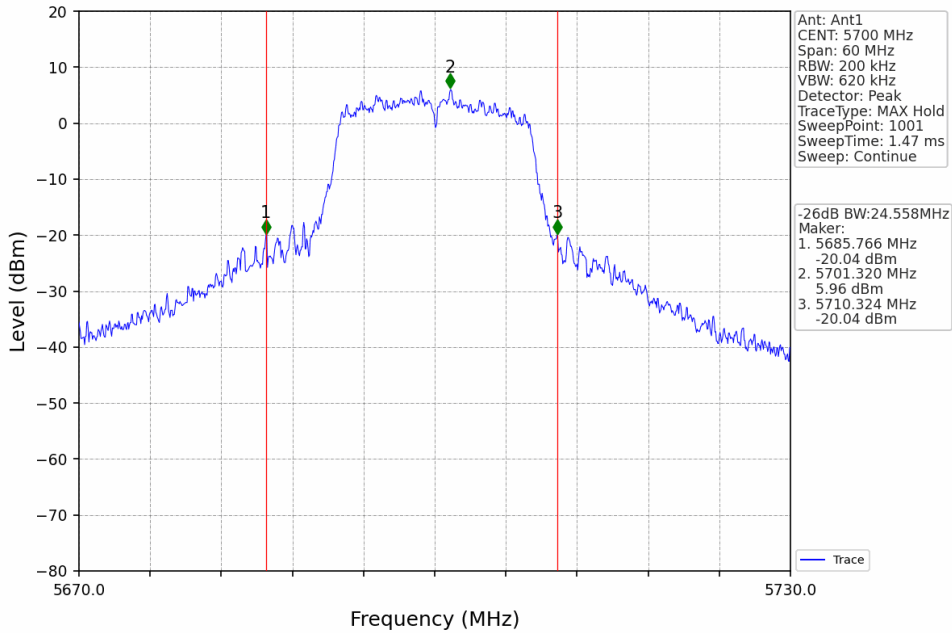


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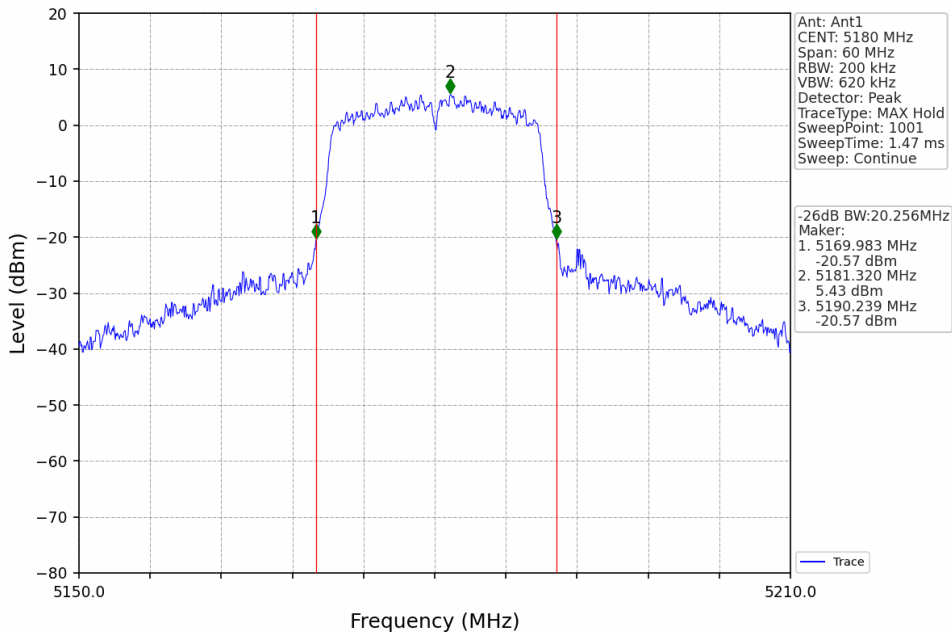


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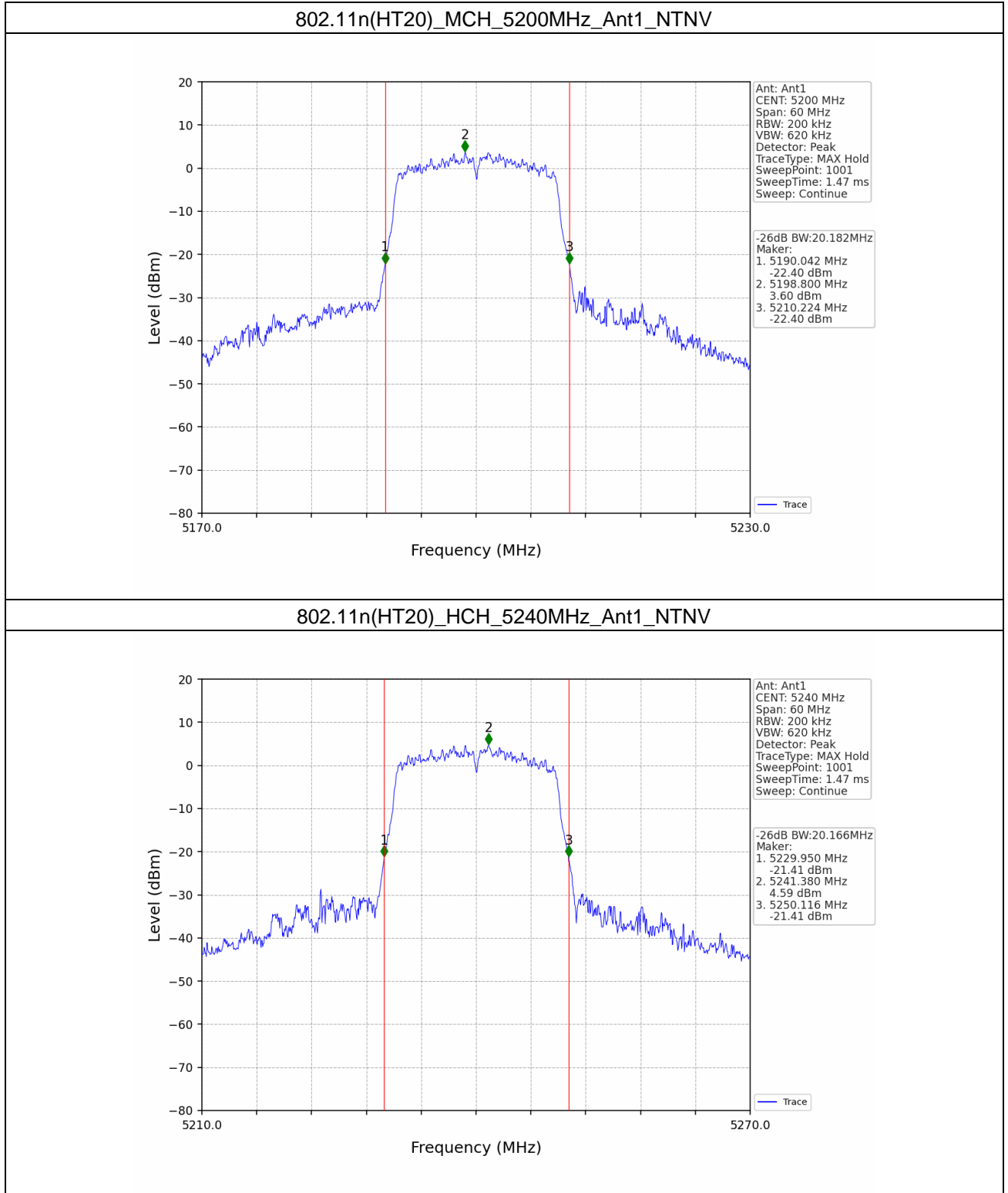
802.11a_HCH_5700MHz_Ant1_NTNV



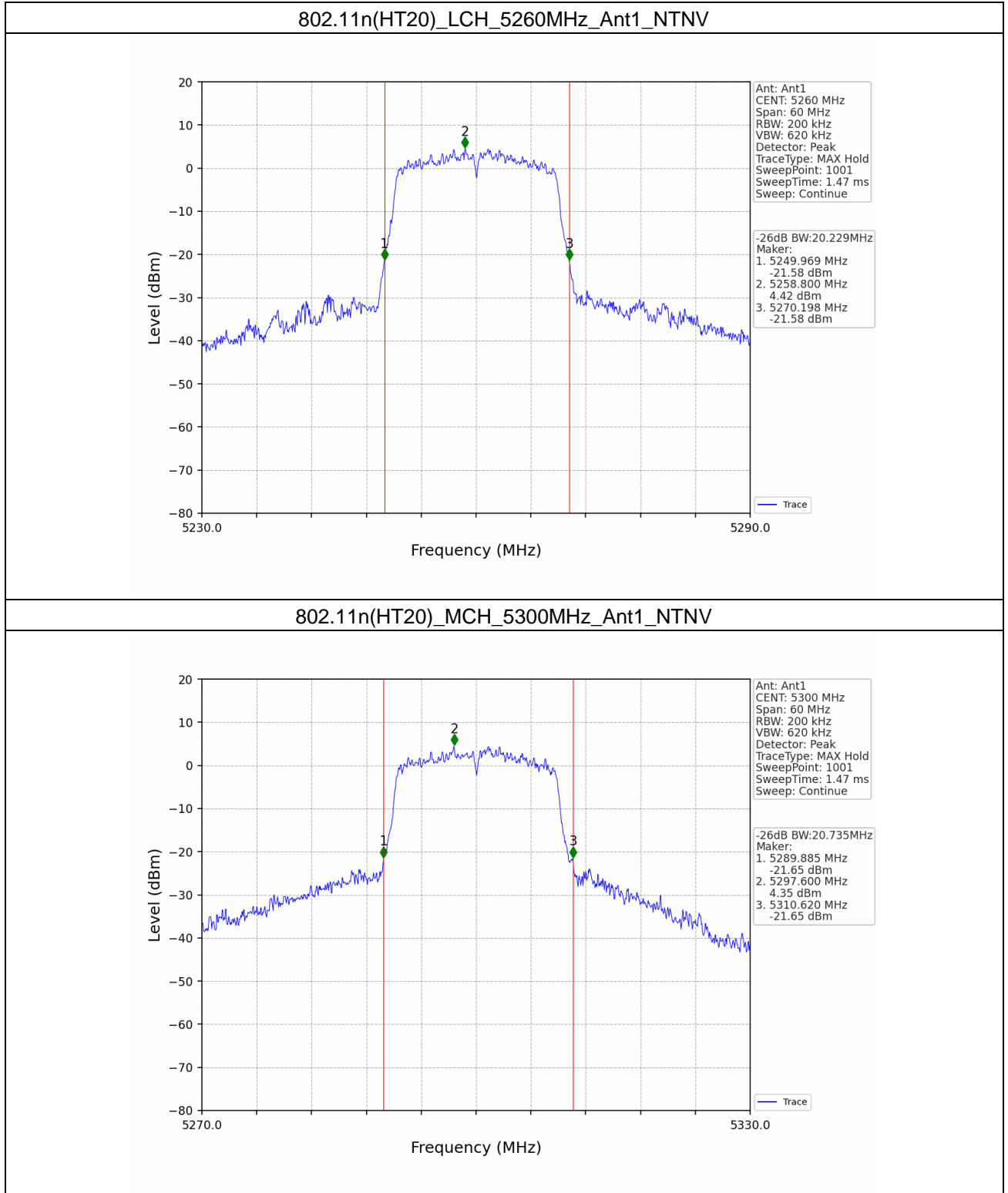
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



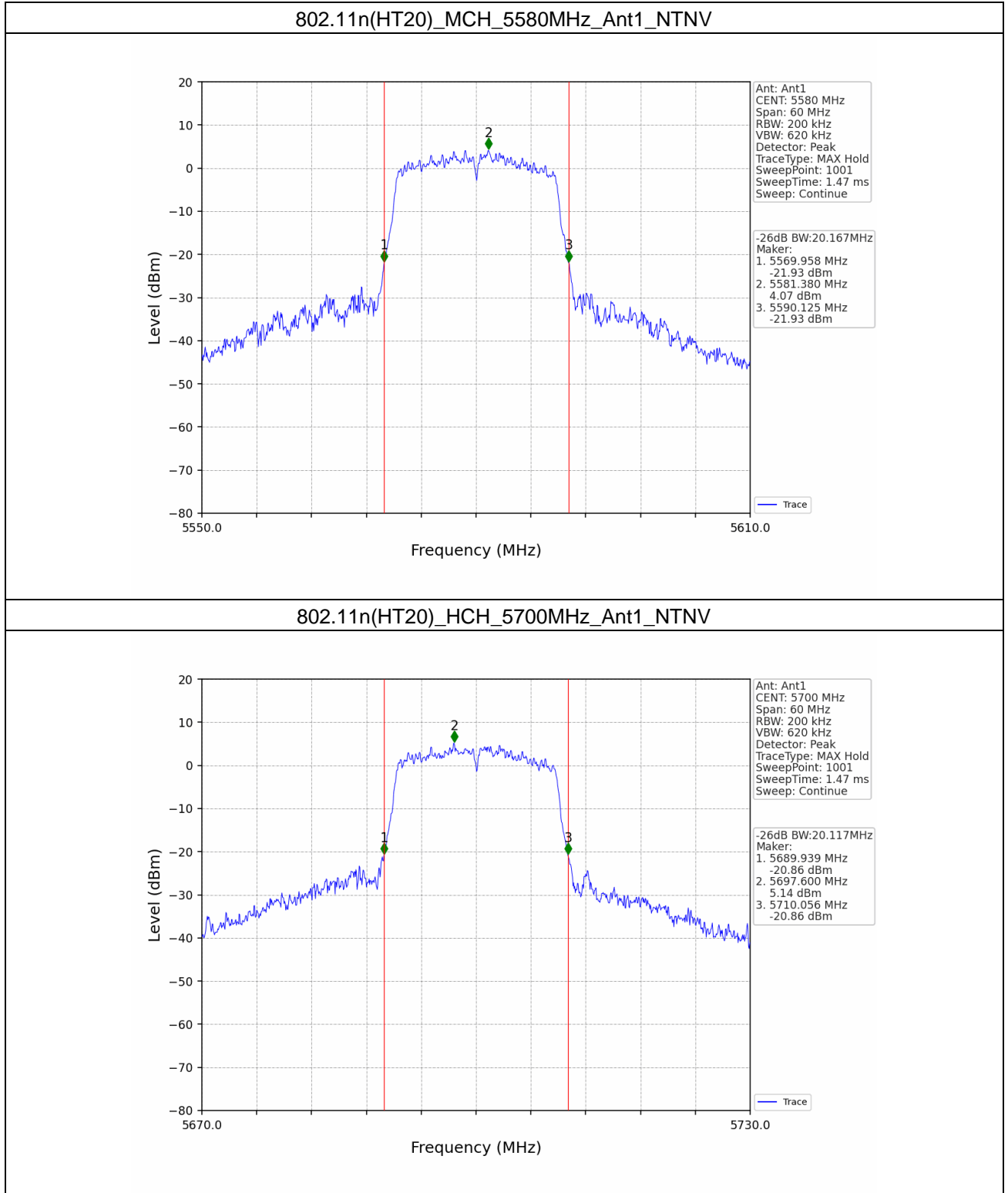
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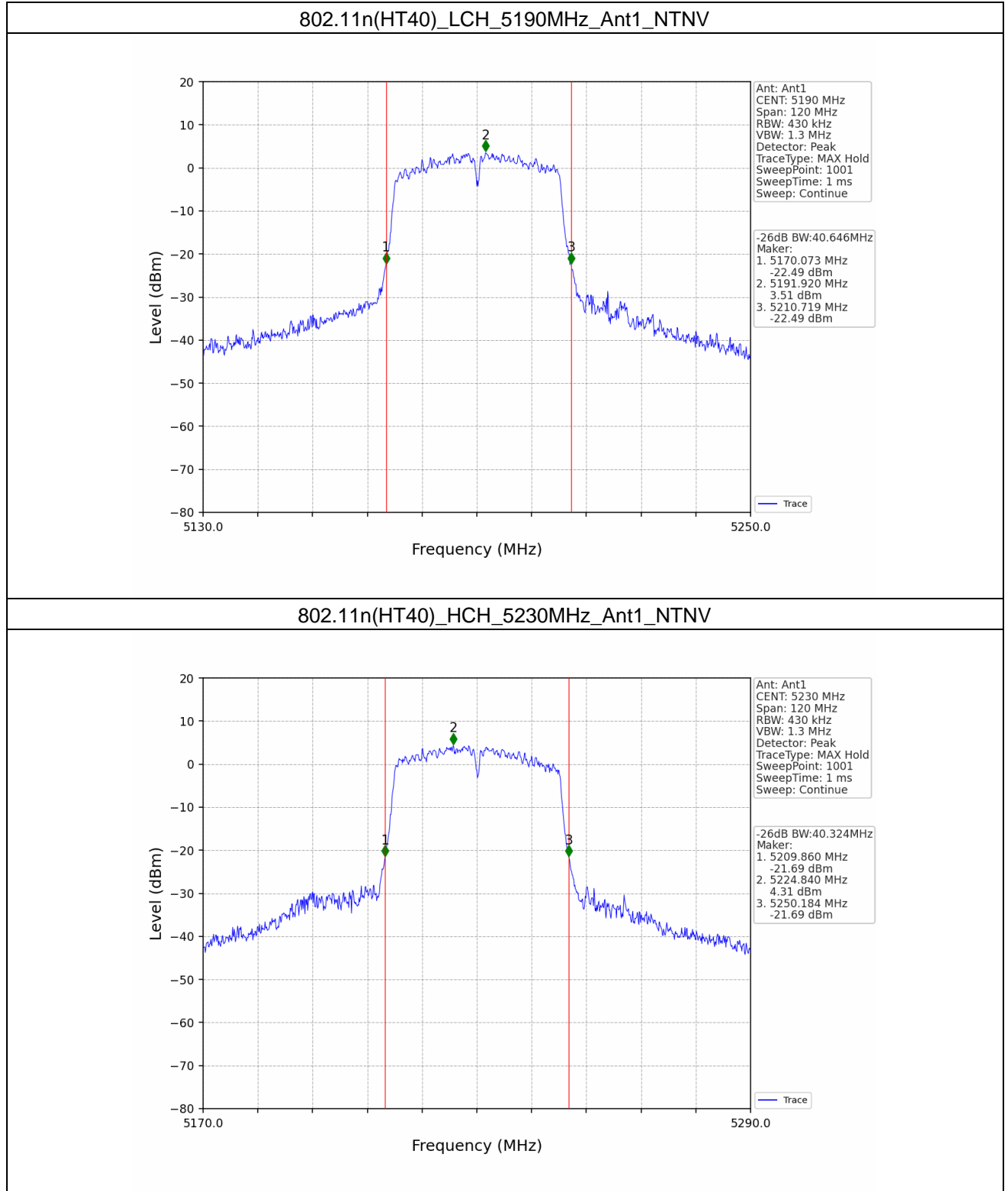
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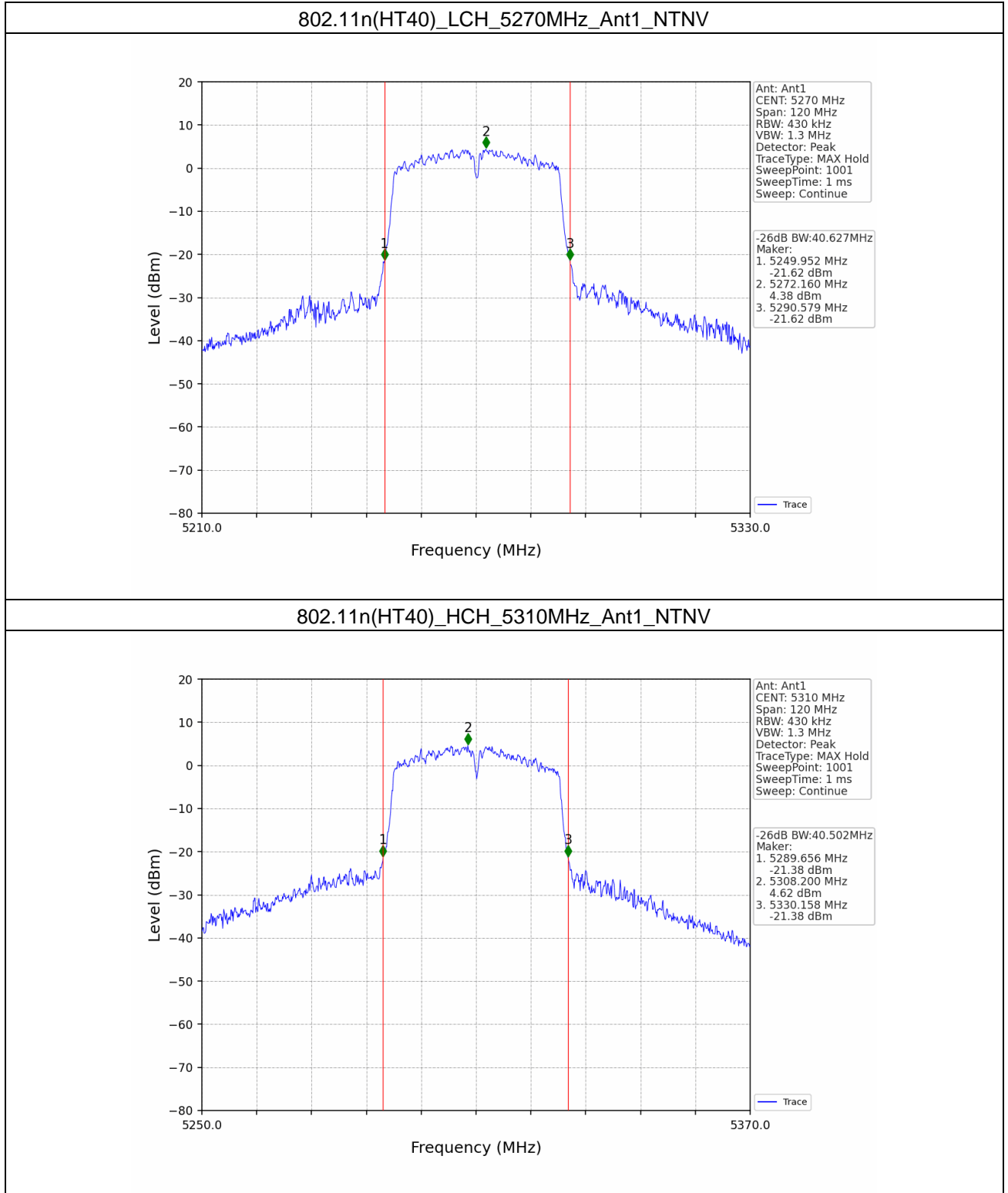
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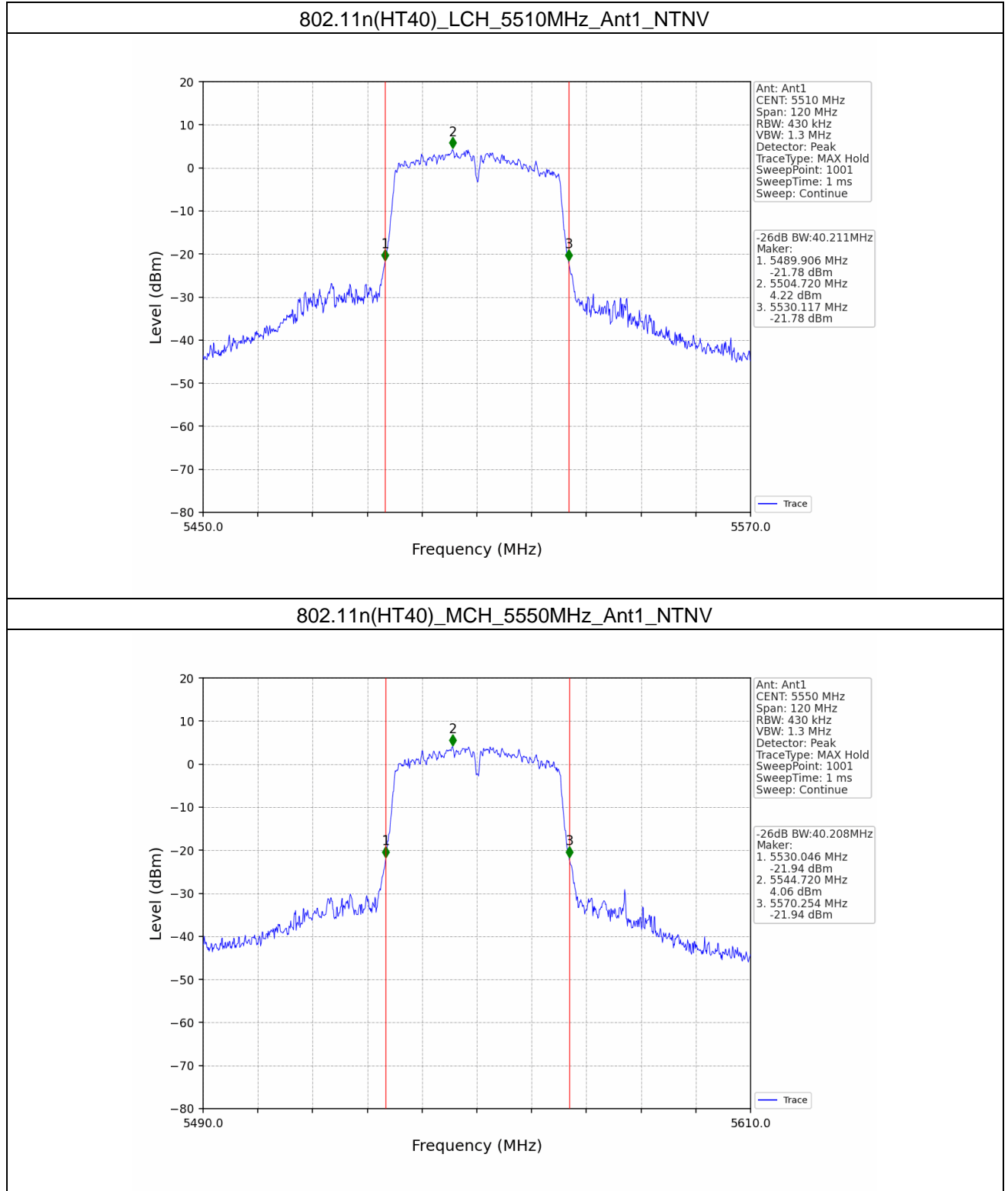
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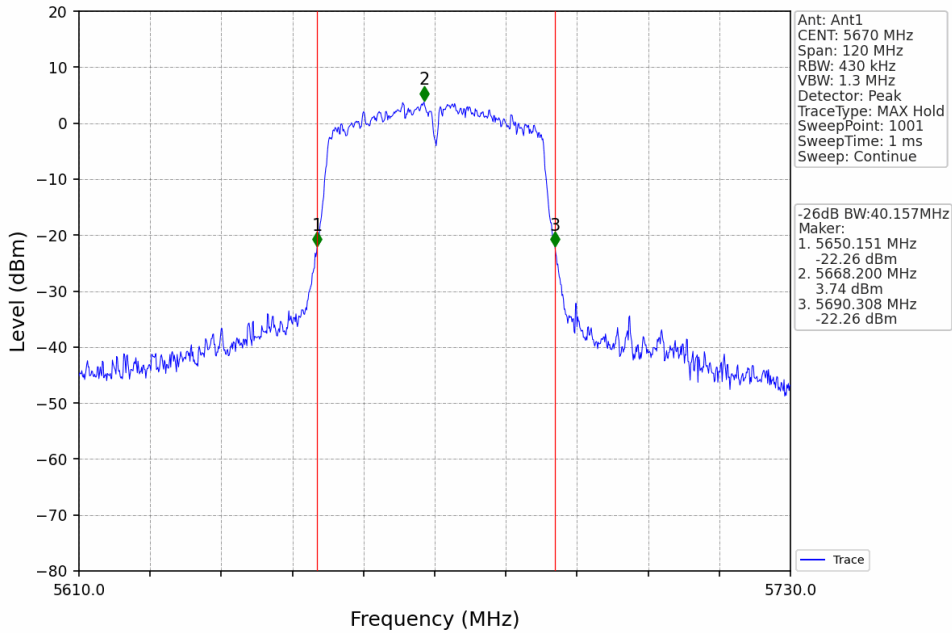


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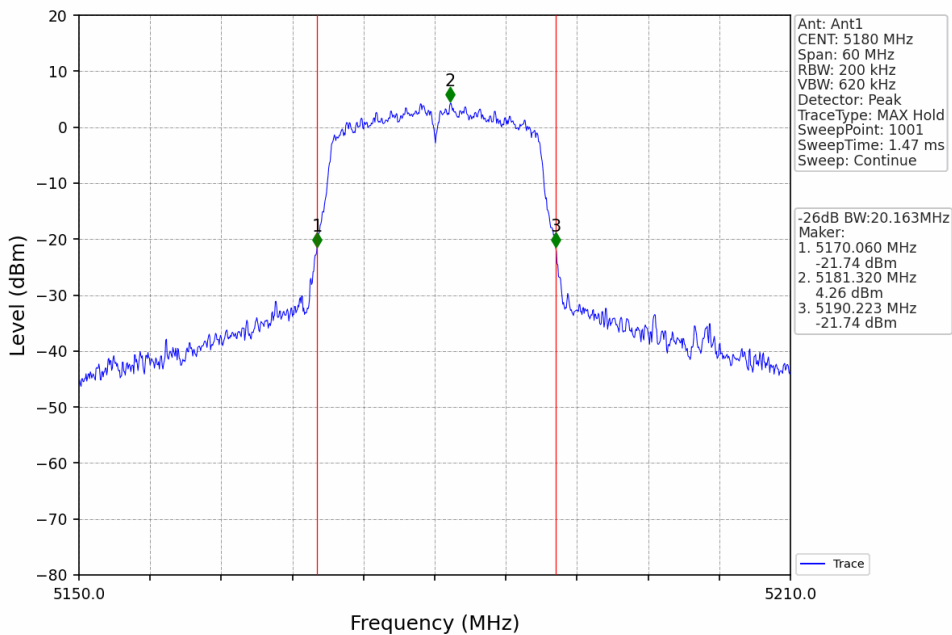


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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV

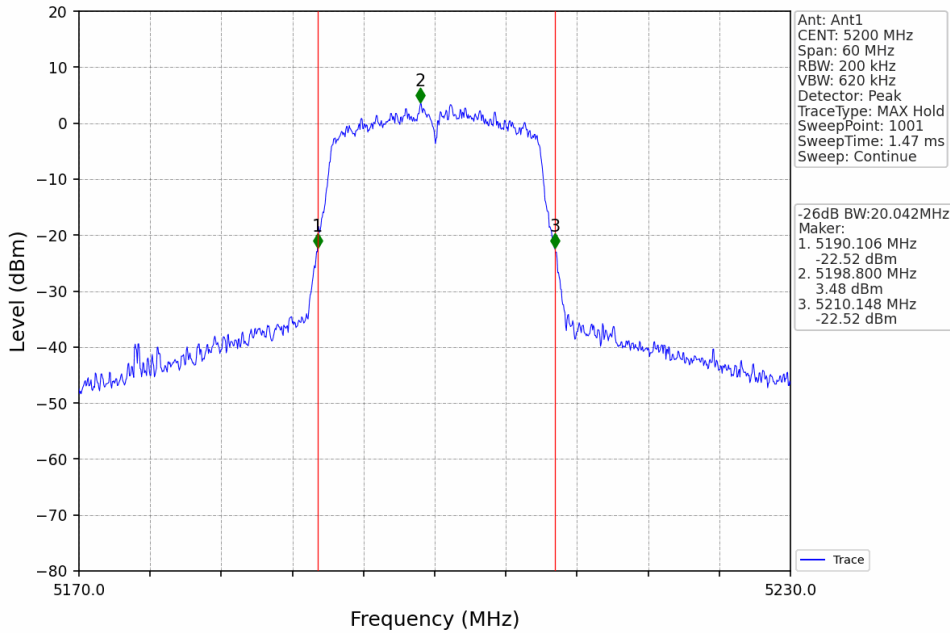


802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

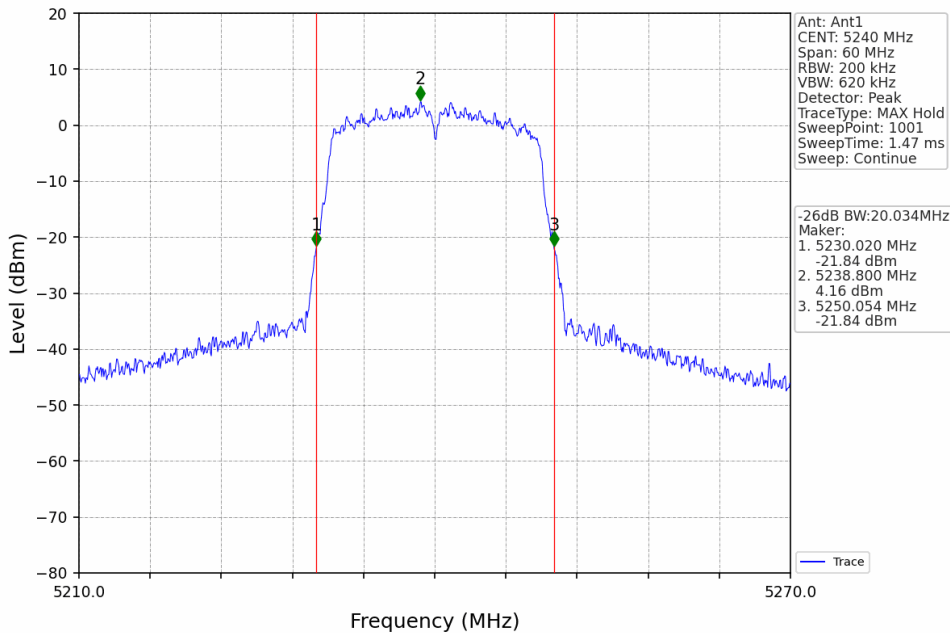


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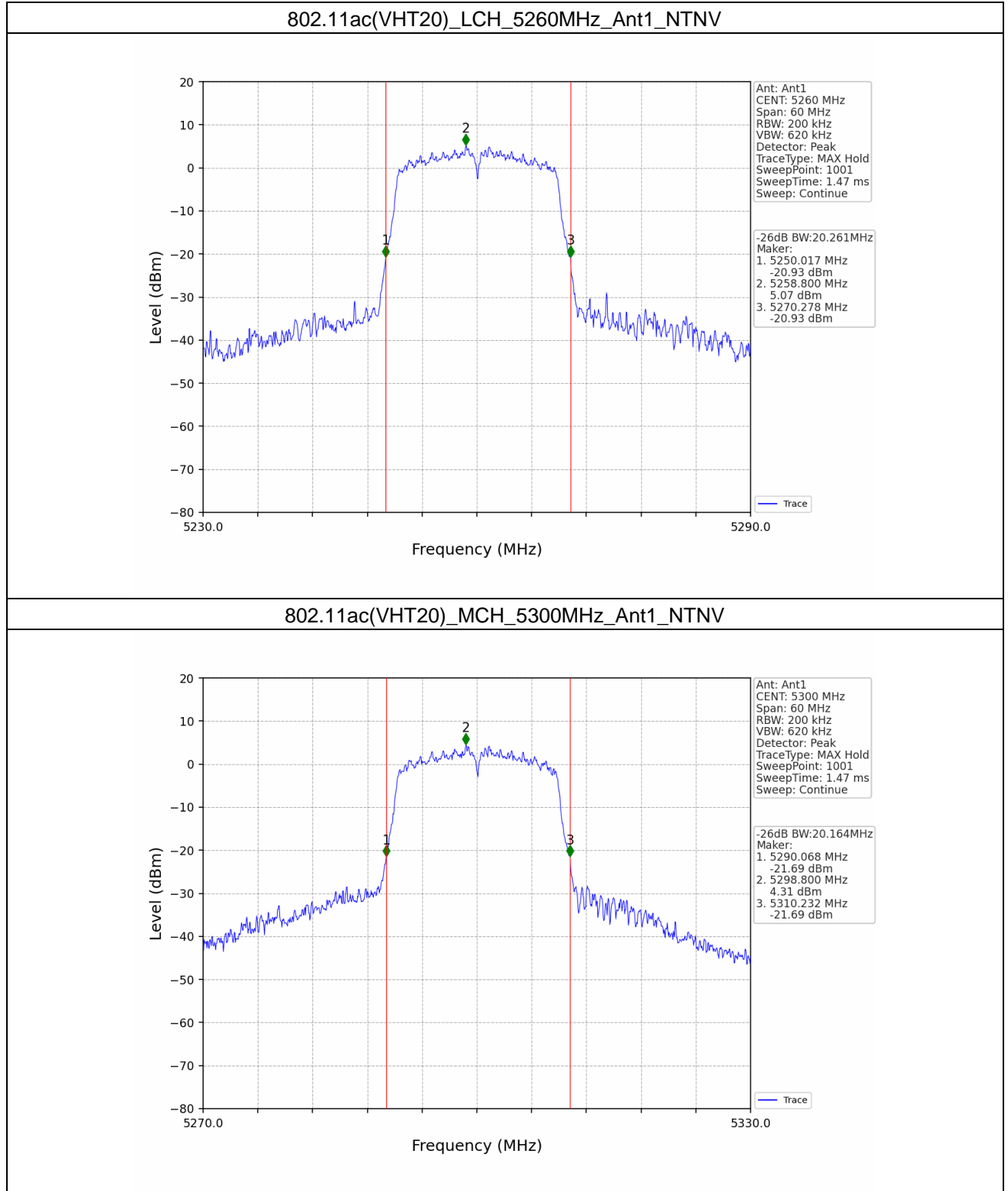
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

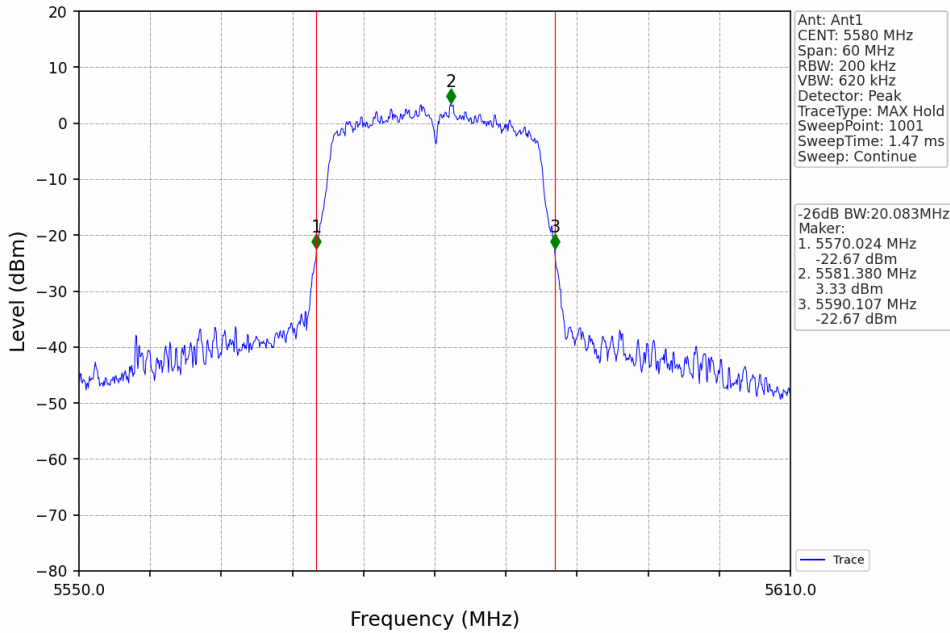


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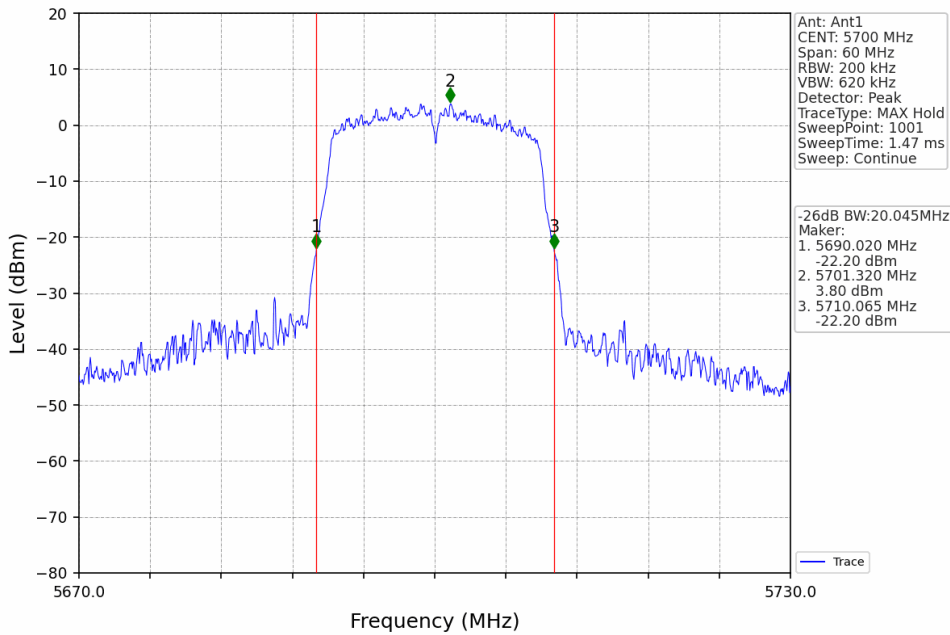


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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV

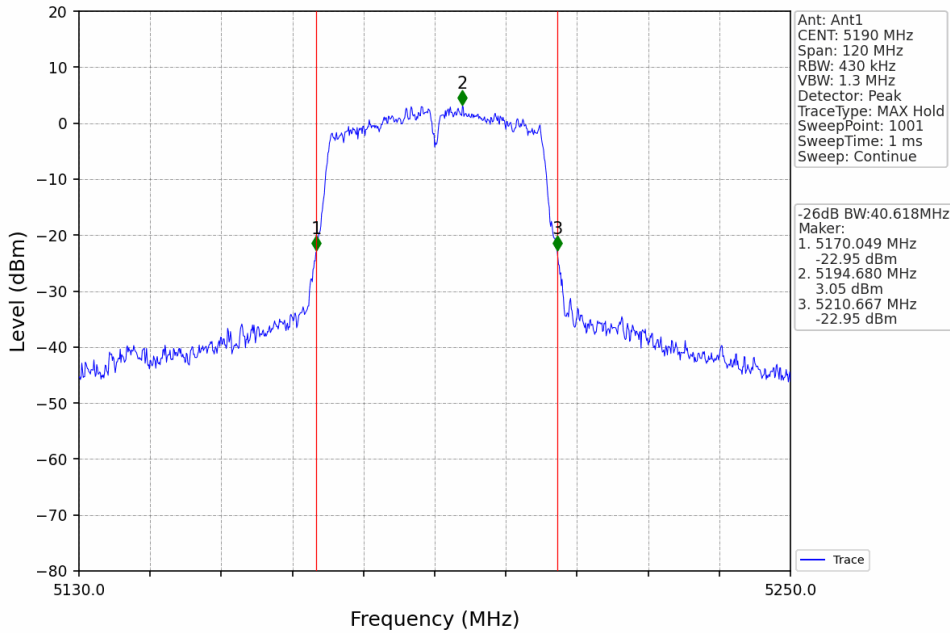


802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV

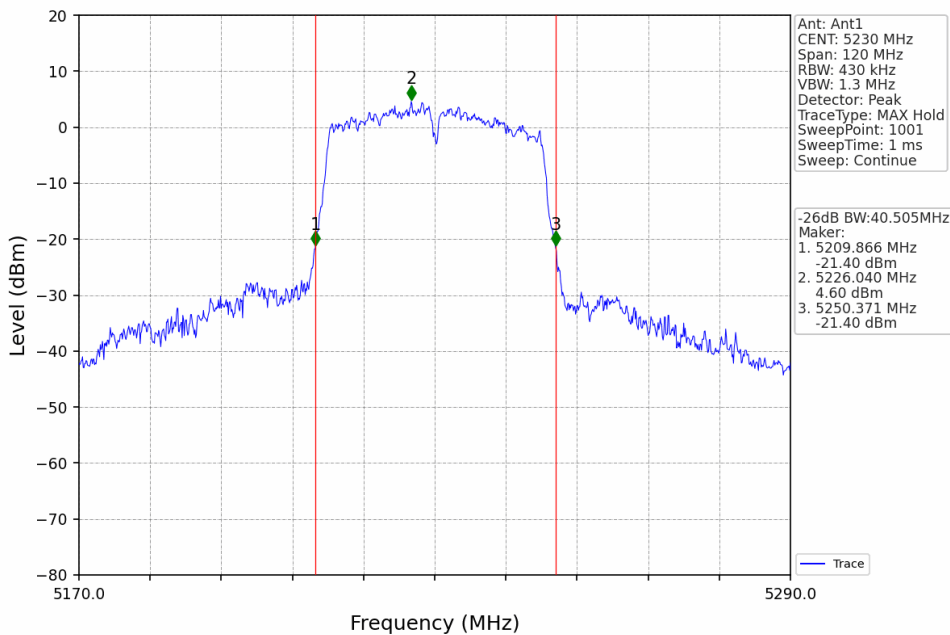


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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

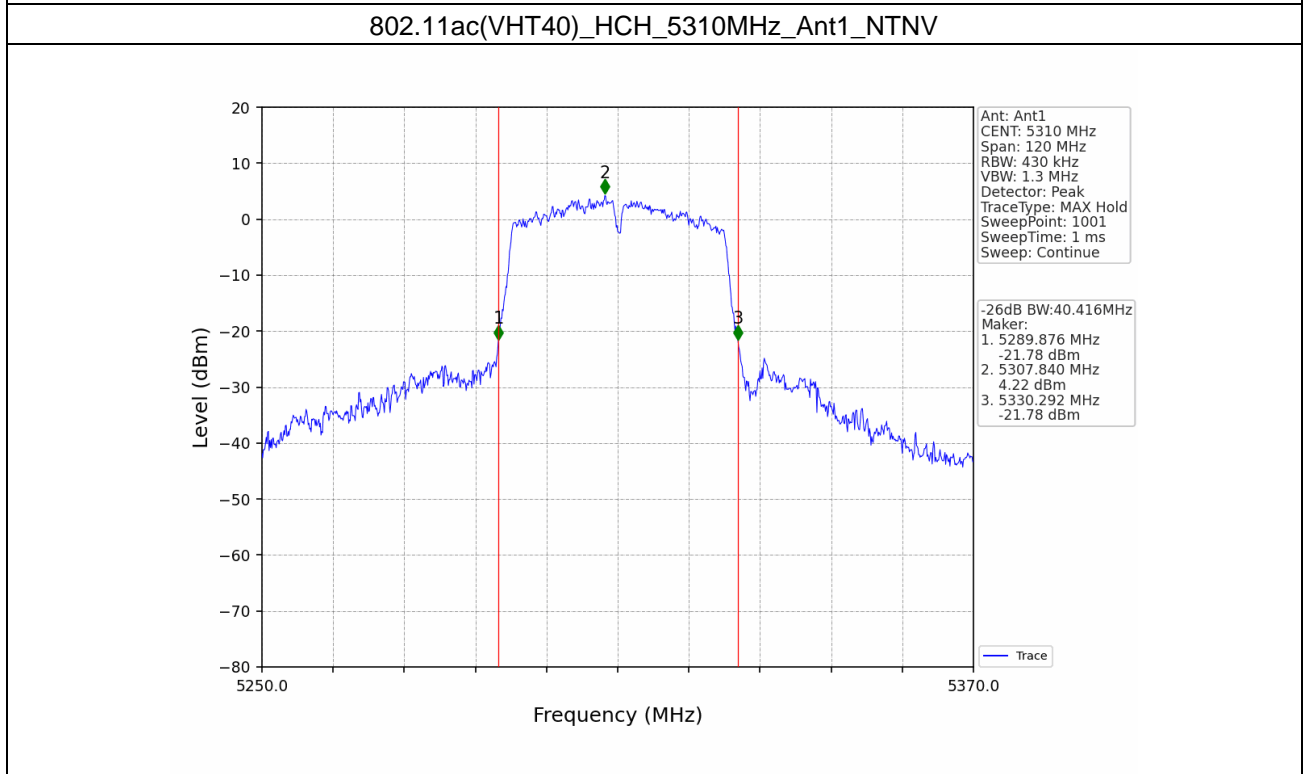
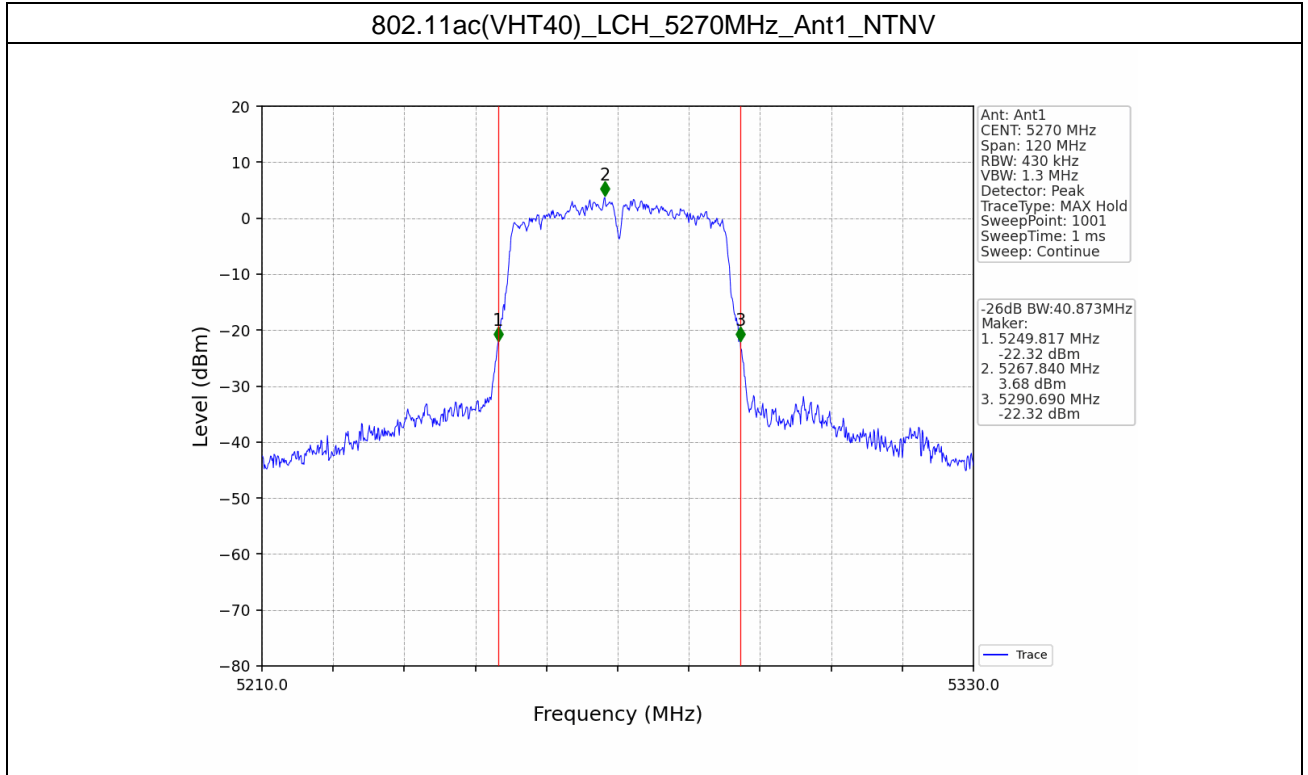


802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

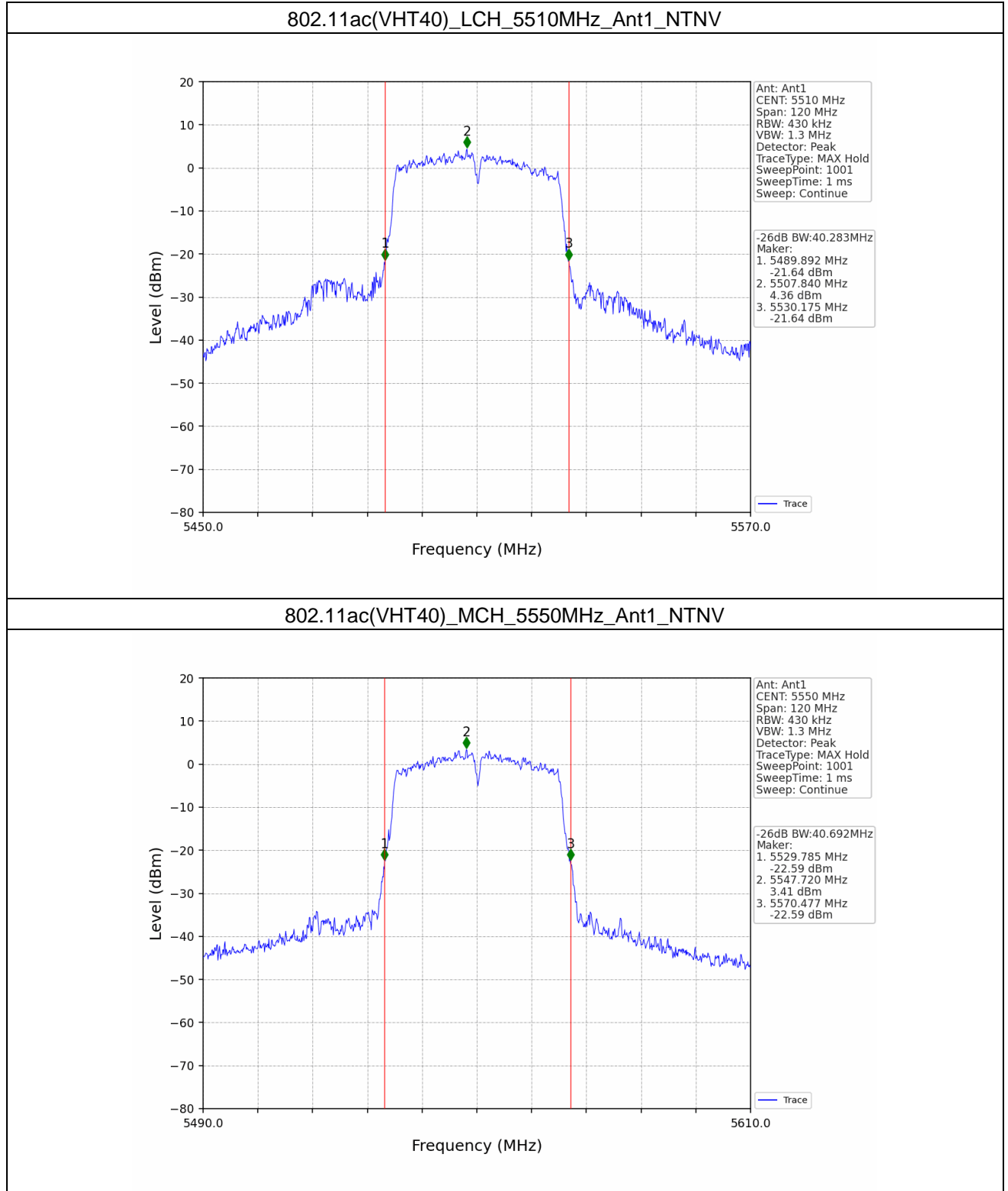


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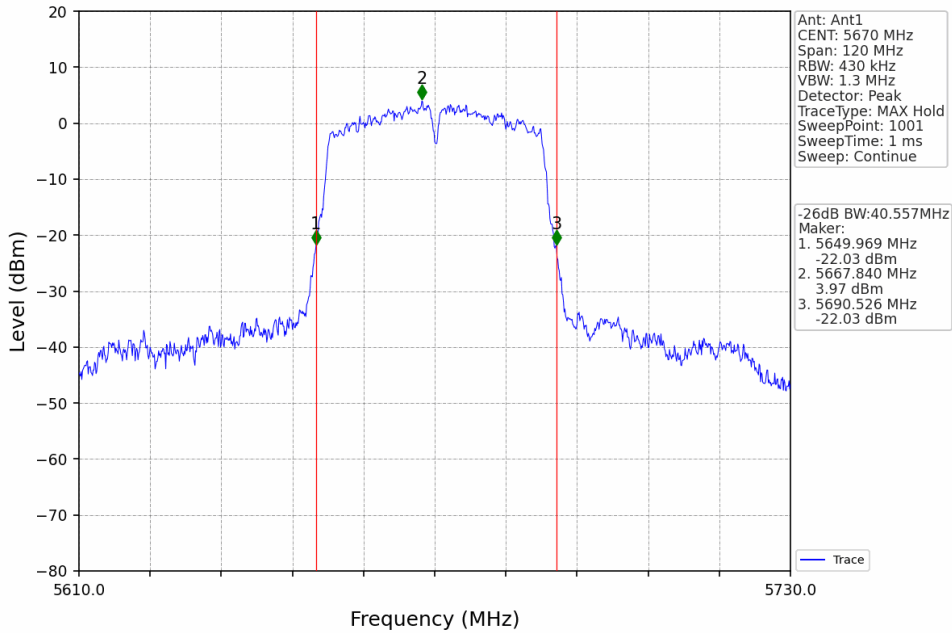


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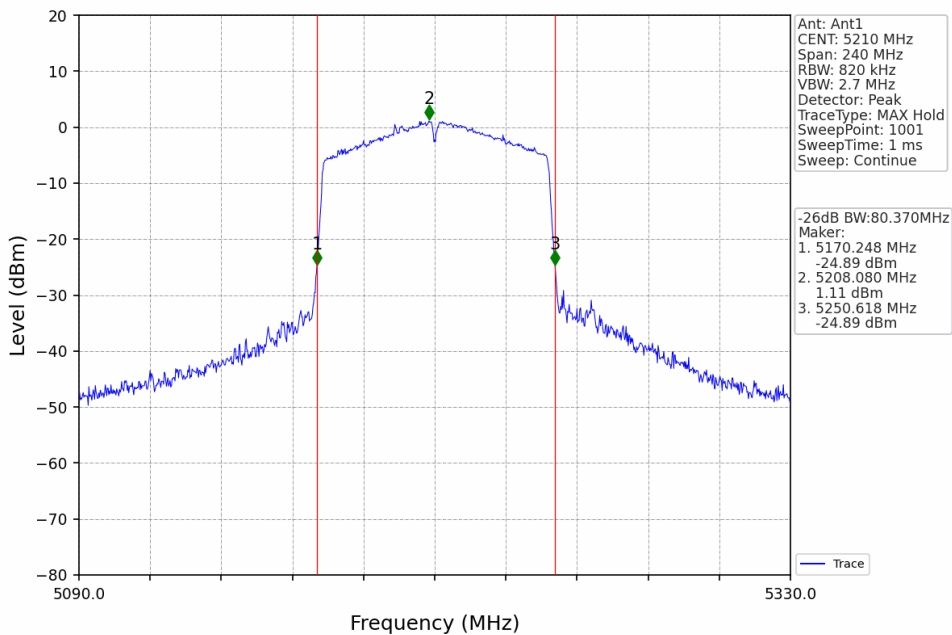


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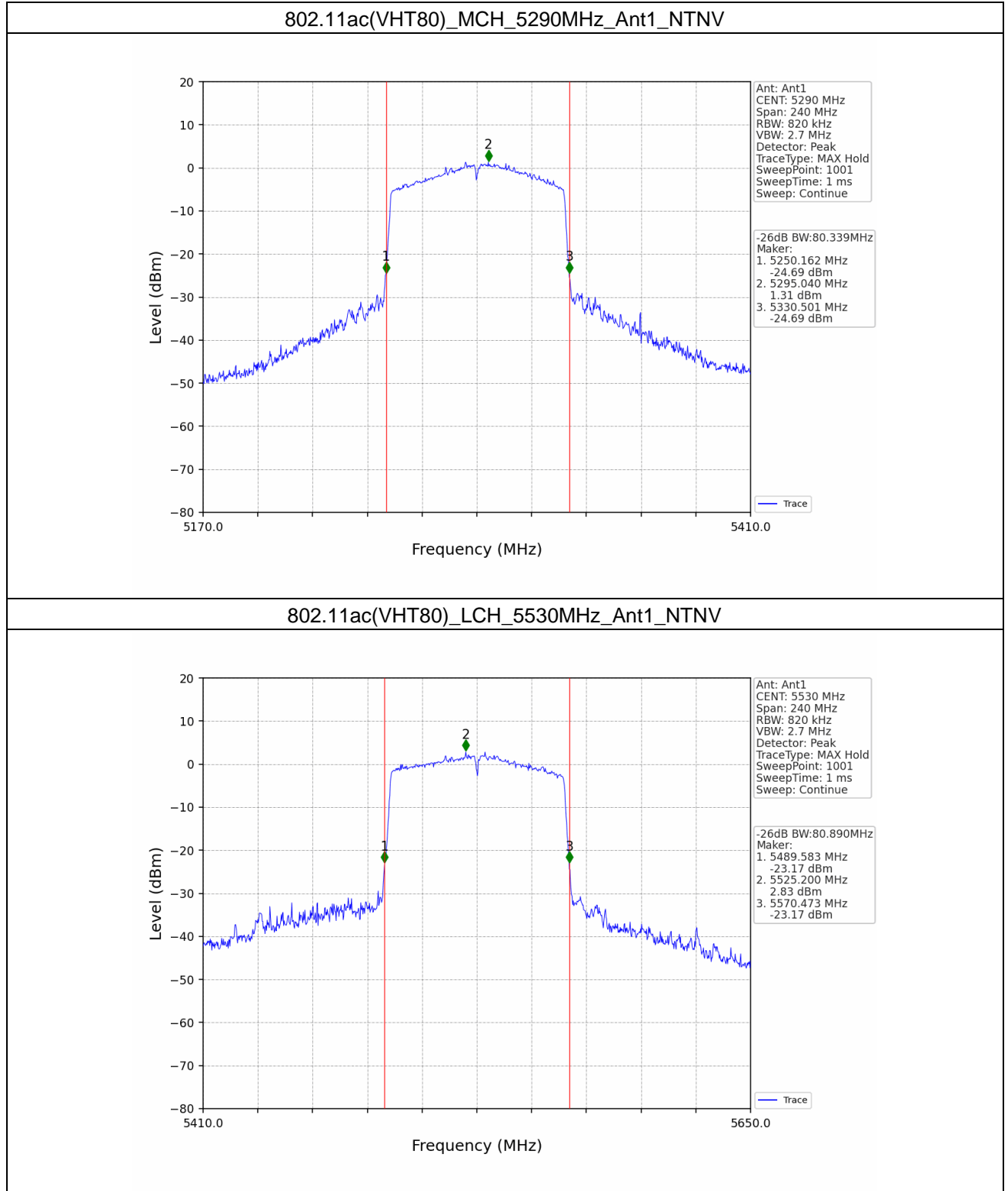
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



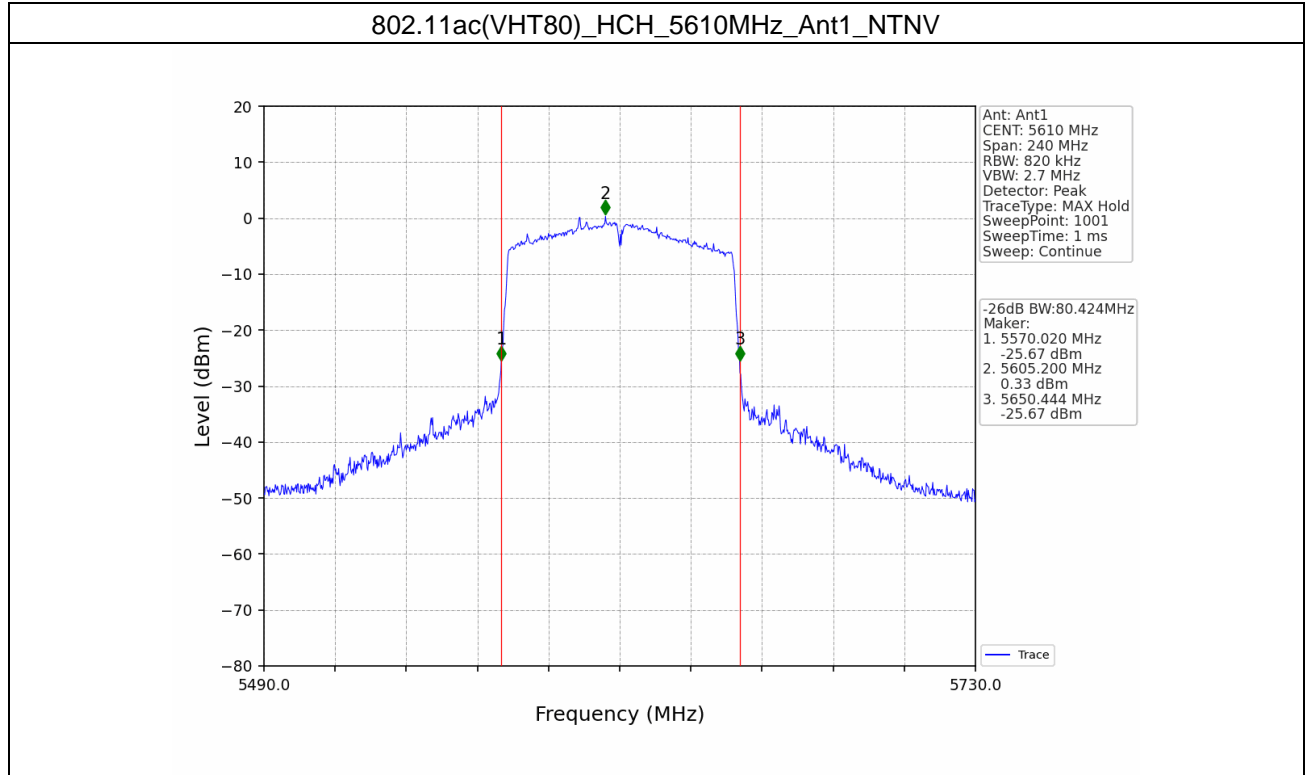
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	14.98	14.51	/	<=30	Pass
		5200	14.81	14.10	/	<=30	Pass
		5240	15.93	14.86	/	<=30	Pass
		5260	15.78	15.21	/	<=23.98	Pass
		5300	15.66	13.84	/	<=23.98	Pass
		5320	15.69	14.14	/	<=23.98	Pass
		5500	14.87	14.15	/	<=23.98	Pass
		5580	15.06	14.28	/	<=23.98	Pass
		5700	15.12	15.22	/	<=23.98	Pass
		5745	15.28	14.99	/	<=30	Pass
		5785	15.55	15.18	/	<=30	Pass
		5825	16.35	15.34	/	<=30	Pass
802.11n (HT20)	MIMO	5180	12.92	12.43	15.69	<=29.96	Pass
		5200	12.86	12.35	15.62	<=29.96	Pass
		5240	13.82	13.11	16.49	<=29.96	Pass
		5260	13.77	13.15	16.48	<=23.94	Pass
		5300	13.77	12.02	15.99	<=23.94	Pass
		5320	13.93	12.80	16.41	<=23.94	Pass
		5500	13.13	13.07	16.11	<=23.94	Pass
		5580	13.20	13.41	16.32	<=23.94	Pass
		5700	13.76	13.73	16.76	<=23.94	Pass
		5745	13.81	13.43	16.63	<=29.96	Pass
		5785	13.99	13.39	16.71	<=29.96	Pass
		5825	14.47	13.20	16.89	<=29.96	Pass
802.11n (HT40)	MIMO	5190	13.11	12.71	15.92	<=29.96	Pass
		5230	14.00	13.05	16.56	<=29.96	Pass
		5270	14.20	13.52	16.88	<=23.94	Pass
		5310	14.27	13.13	16.75	<=23.94	Pass
		5510	13.30	13.66	16.49	<=23.94	Pass
		5550	13.40	13.89	16.66	<=23.94	Pass
		5670	13.71	13.75	16.74	<=23.94	Pass



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		5755	13.58	13.29	16.45	<=29.96	Pass
		5795	13.82	13.44	16.64	<=29.96	Pass
802.11ac (VHT20)	MIMO	5180	13.34	12.56	15.98	<=29.96	Pass
		5200	12.38	11.56	15.00	<=29.96	Pass
		5240	13.13	12.03	15.63	<=29.96	Pass
		5260	13.96	13.19	16.60	<=23.94	Pass
		5300	13.25	11.30	15.39	<=23.94	Pass
		5320	13.24	11.46	15.45	<=23.94	Pass
		5500	12.19	12.06	15.14	<=23.94	Pass
		5580	12.25	12.48	15.38	<=23.94	Pass
		5700	12.82	12.79	15.82	<=23.94	Pass
		5745	13.06	12.40	15.75	<=29.96	Pass
		5785	13.09	12.50	15.82	<=29.96	Pass
		5825	13.44	12.13	15.84	<=29.96	Pass
802.11ac (VHT40)	MIMO	5190	12.54	12.15	15.36	<=29.96	Pass
		5230	13.37	12.32	15.89	<=29.96	Pass
		5270	13.19	12.36	15.81	<=23.94	Pass
		5310	13.44	11.95	15.77	<=23.94	Pass
		5510	12.78	12.88	15.84	<=23.94	Pass
		5550	12.60	13.00	15.81	<=23.94	Pass
		5670	13.02	12.95	16.00	<=23.94	Pass
		5755	12.95	12.70	15.84	<=29.96	Pass
5795	13.06	12.67	15.88	<=29.96	Pass		
802.11ac (VHT80)	MIMO	5210	12.99	11.78	15.44	<=29.96	Pass
		5290	12.96	11.63	15.36	<=23.94	Pass
		5530	11.98	12.57	15.30	<=23.94	Pass
		5610	9.10	9.74	12.44	<=23.94	Pass
		5775	12.66	12.28	15.48	<=29.96	Pass

Note1: Antenna Gain: Ant1: 3.03dBi; Ant2: 3.03dBi

Note2: Directional Gain: 6.04dBi

The directional gain calculation shall be followed KDB 662911 D01:

Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$ dBi, where N_{SS} = the number of independent spatial streams of data and G_{ANT} is the antenna gain in dBi. (This formula can also be applied when antennas have different gains if the highest antenna gain is substituted for G_{ANT} .)



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	4.79	4.23	/	<=17	Pass
		5200	4.60	3.86	/	<=17	Pass
		5240	5.62	4.51	/	<=17	Pass
		5260	5.64	4.86	/	<=11	Pass
		5300	5.49	3.73	/	<=11	Pass
		5320	5.40	3.83	/	<=11	Pass
		5500	4.60	3.84	/	<=11	Pass
		5580	4.68	4.00	/	<=11	Pass
802.11n (HT20)	MIMO	5180	2.29	2.23	5.04	<=16.49	Pass
		5200	2.50	2.18	5.24	<=16.49	Pass
		5240	3.45	2.78	6.07	<=16.49	Pass
		5260	3.42	2.85	6.05	<=10.49	Pass
		5300	3.24	1.80	5.50	<=10.49	Pass
		5320	3.46	2.55	5.94	<=10.49	Pass
		5500	2.67	2.74	5.67	<=10.49	Pass
		5580	2.68	2.94	5.76	<=10.49	Pass
802.11n (HT40)	MIMO	5190	0.01	-0.50	2.73	<=16.49	Pass
		5230	0.71	-0.41	3.14	<=16.49	Pass
		5270	0.79	0.03	3.38	<=10.49	Pass
		5310	0.95	-0.10	3.34	<=10.49	Pass
		5510	-0.13	0.26	3.07	<=10.49	Pass
		5550	0.09	0.76	3.35	<=10.49	Pass
		5670	0.81	0.61	3.53	<=10.49	Pass
802.11ac (VHT20)	MIMO	5180	3.01	2.15	5.47	<=16.49	Pass
		5200	1.95	1.25	4.54	<=16.49	Pass
		5240	2.75	1.67	5.21	<=16.49	Pass
		5260	3.44	2.62	5.99	<=10.49	Pass
		5300	2.95	0.91	4.89	<=10.49	Pass
		5320	2.83	0.96	4.86	<=10.49	Pass



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		5500	1.95	1.70	4.73	<=10.49	Pass
		5580	1.89	2.05	4.91	<=10.49	Pass
		5700	2.52	2.55	5.50	<=10.49	Pass
802.11ac (VHT40)	MIMO	5190	-0.61	-1.09	2.15	<=16.49	Pass
		5230	0.21	-1.01	2.57	<=16.49	Pass
		5270	-0.11	-1.10	2.42	<=10.49	Pass
		5310	0.21	-1.21	2.50	<=10.49	Pass
		5510	-0.43	-0.55	2.51	<=10.49	Pass
		5550	-0.78	-0.32	2.38	<=10.49	Pass
		5670	-0.12	-0.08	2.87	<=10.49	Pass
802.11ac (VHT80)	MIMO	5210	-2.53	-3.62	-0.07	<=16.49	Pass
		5290	-2.65	-3.84	-0.31	<=10.49	Pass
		5530	-4.27	-3.77	-1.11	<=10.49	Pass
		5610	-7.03	-6.17	-3.57	<=10.49	Pass

Note1: Antenna Gain: Ant1: 3.03dBi; Ant2: 3.03dBi

Note2: Directional Gain: 6.04dBi

The directional gain calculation shall be followed KDB 662911 D01:

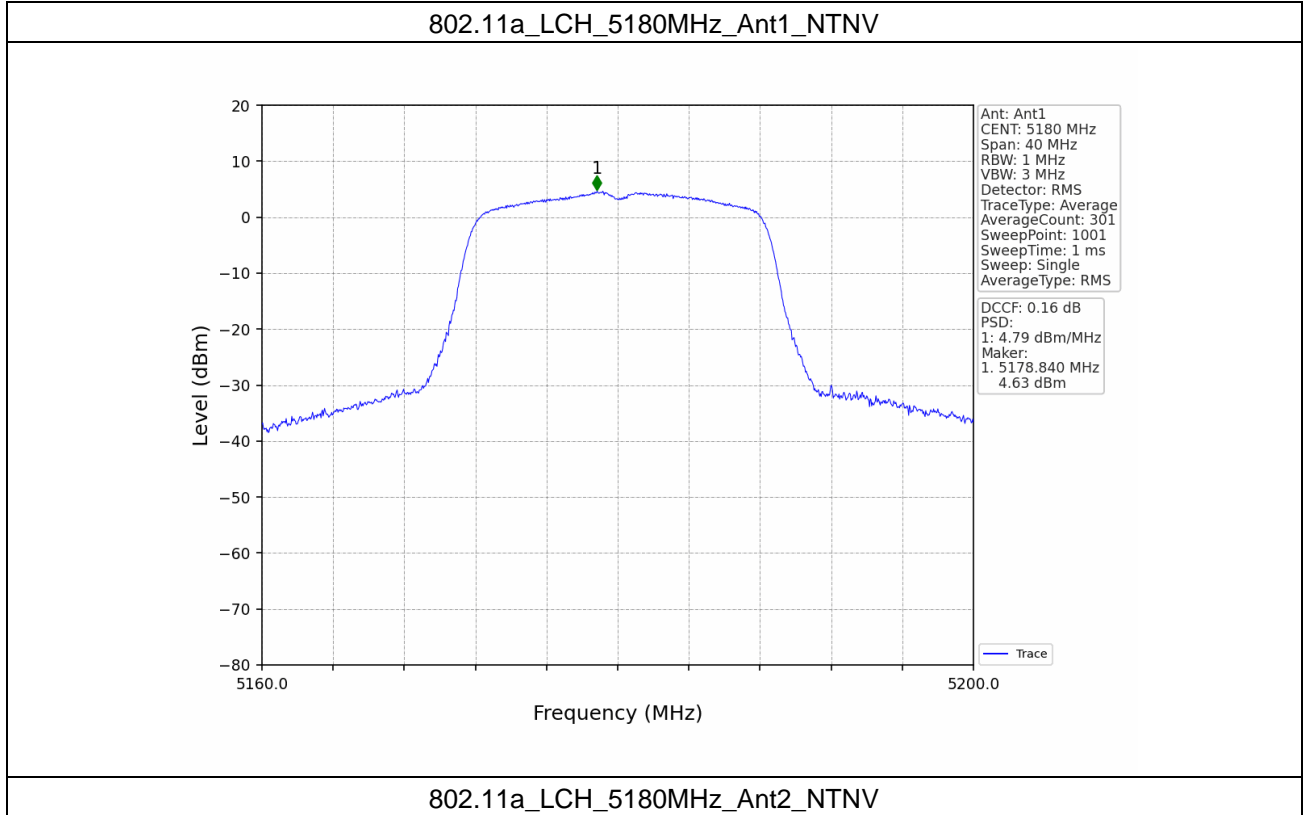
Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$ dBi, where N_{SS} = the number of independent spatial streams of data and G_{ANT} is the antenna gain in dBi. (This formula can also be applied when antennas have different gains if the highest antenna gain is substituted for G_{ANT} .)



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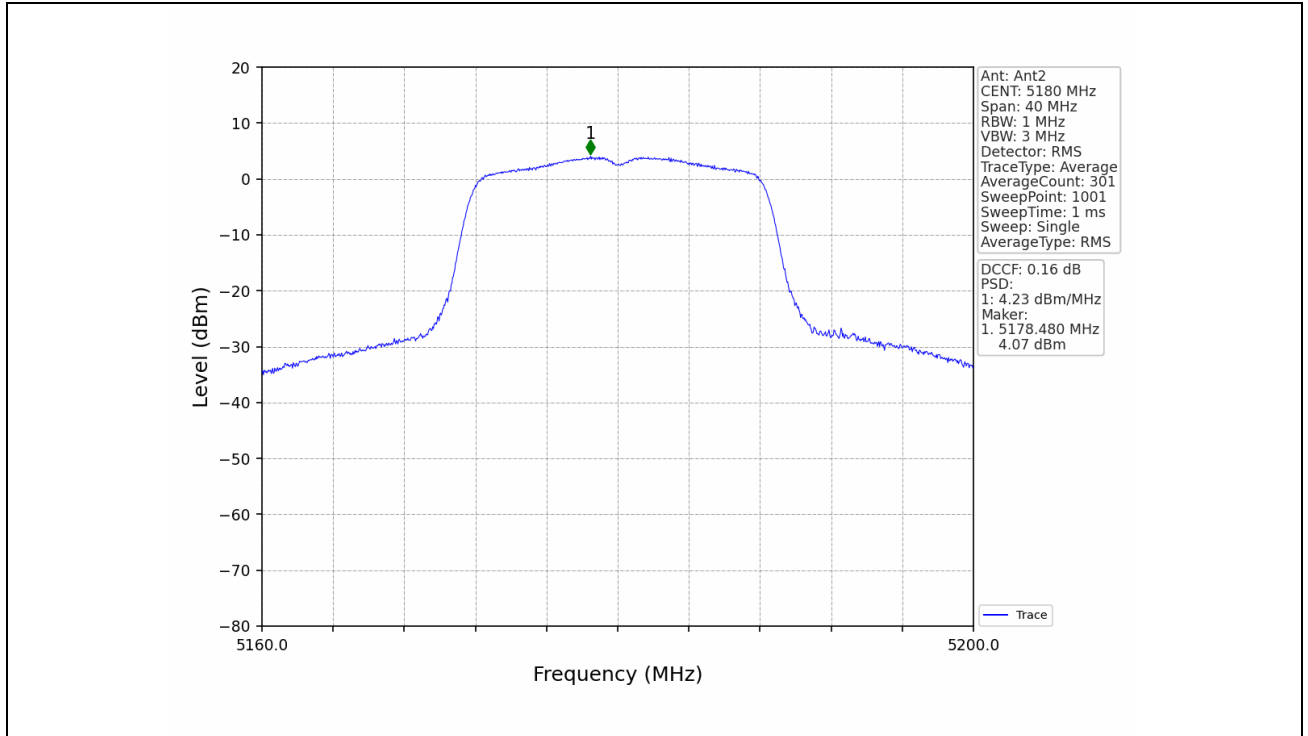
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4.1.2 Test Graph



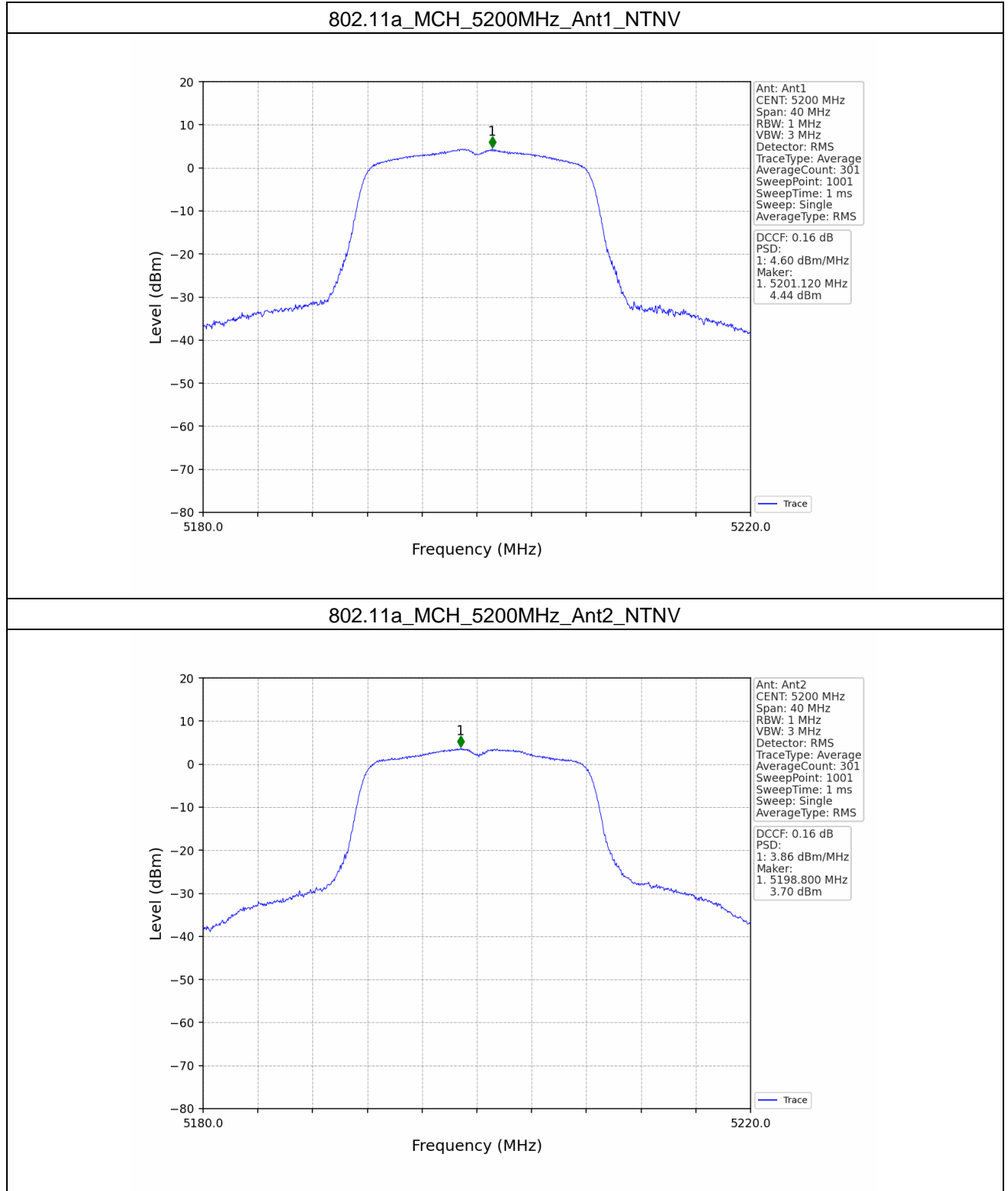
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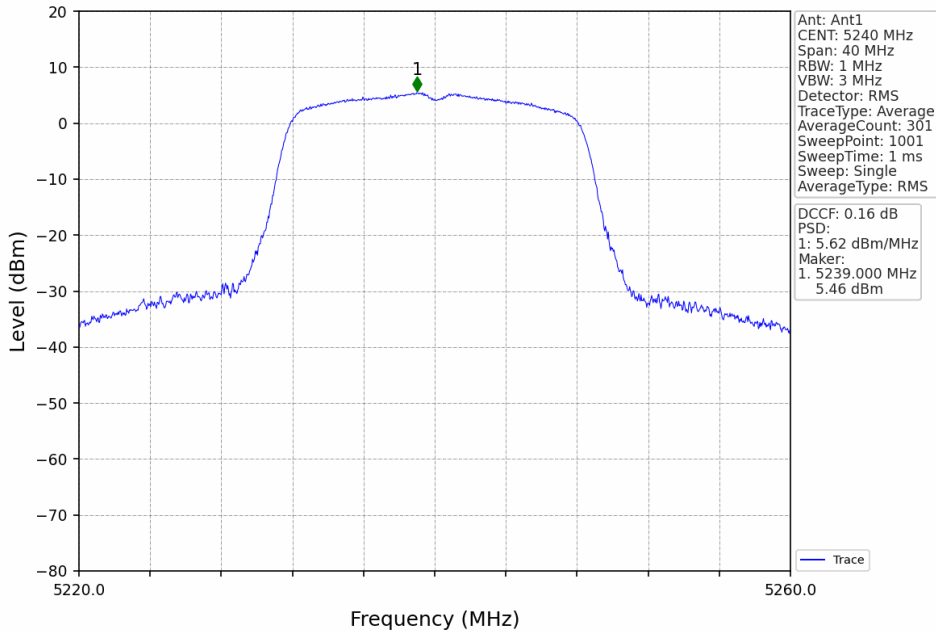
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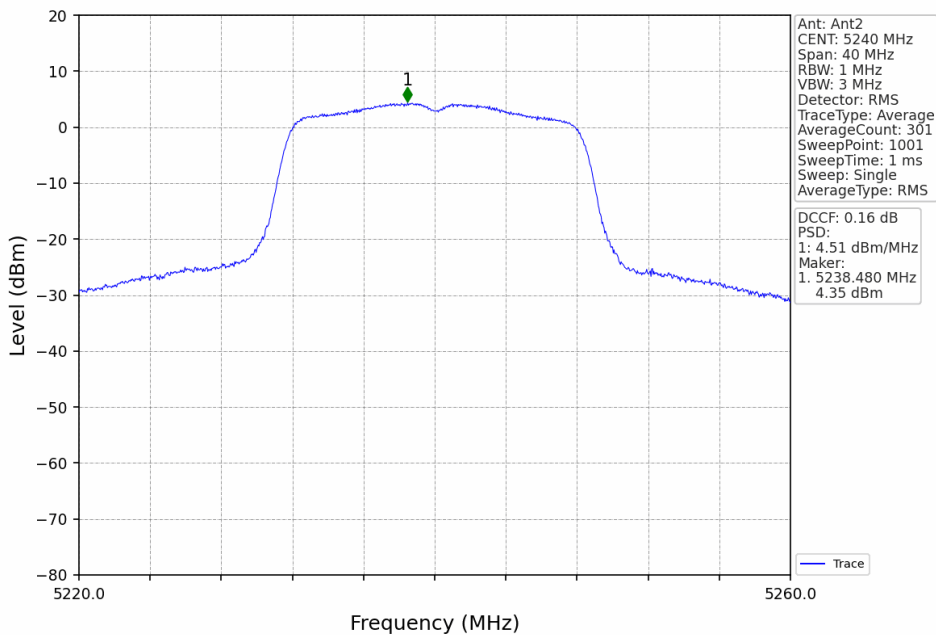


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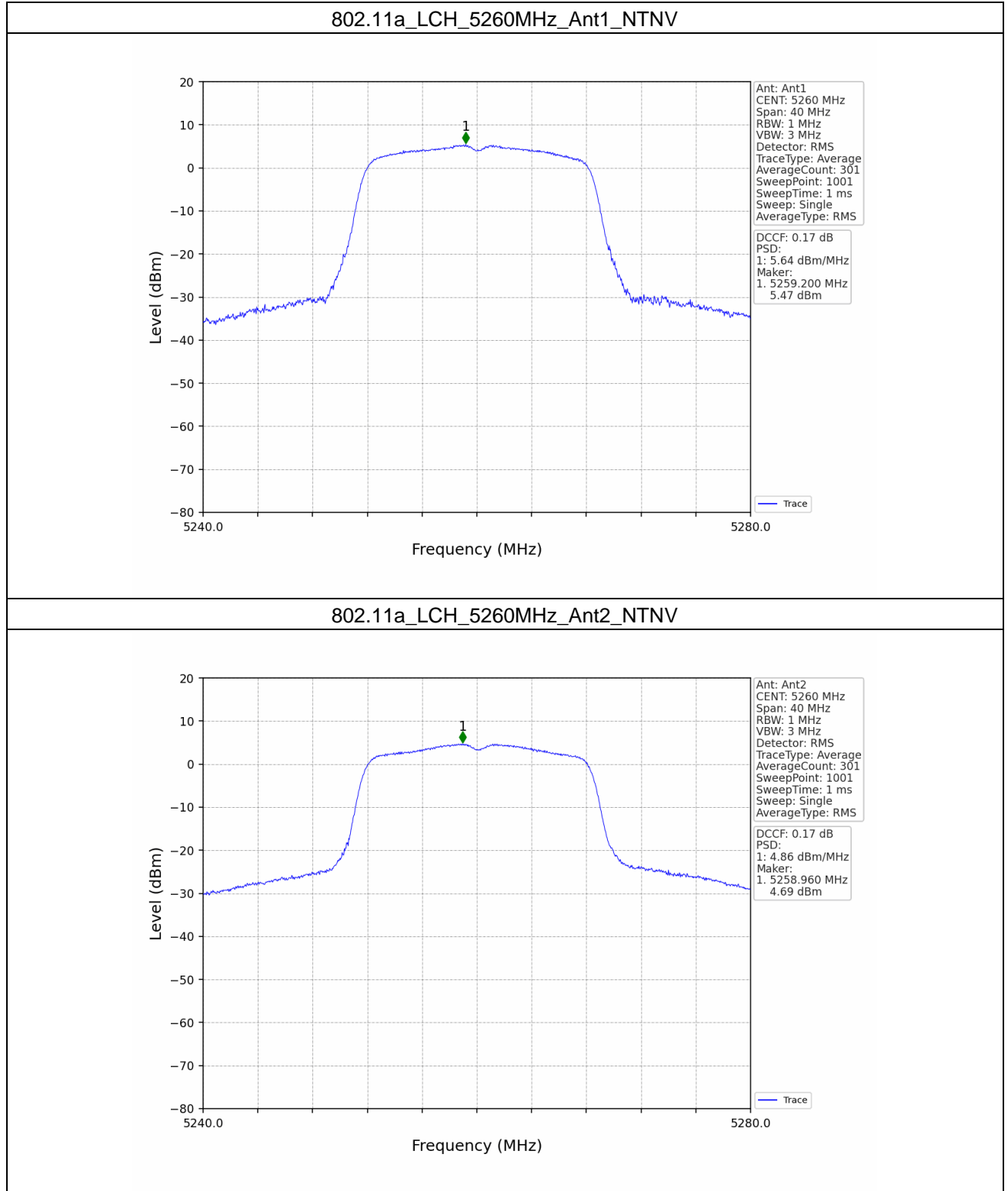
802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV



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