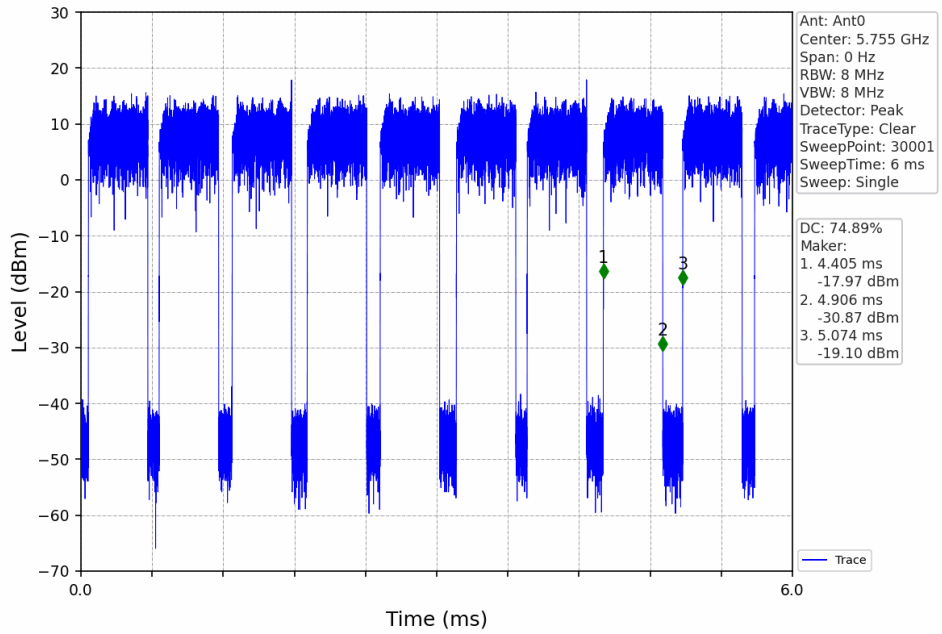
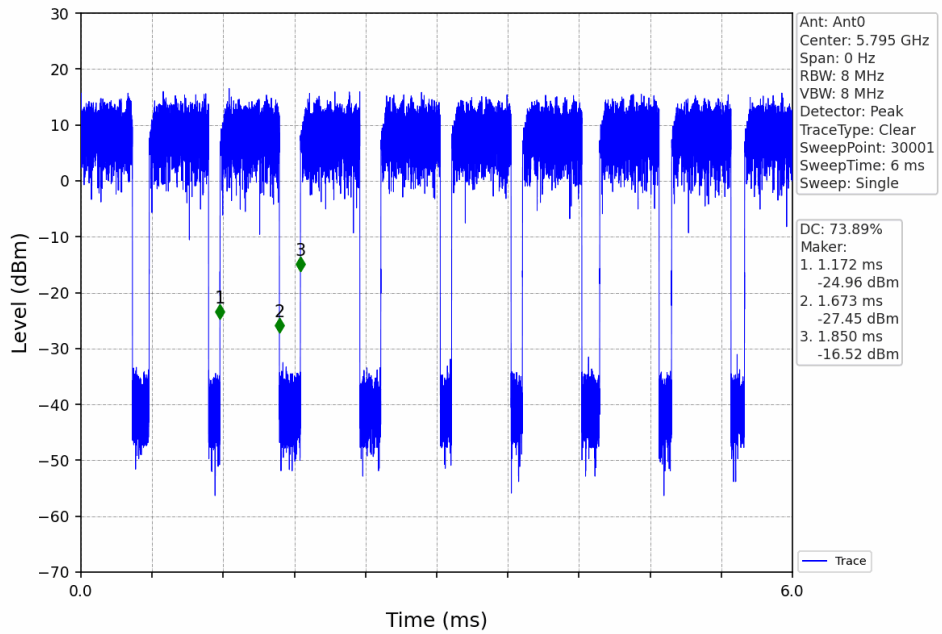
802.11ac(VHT40)_LCH_5755MHz_Ant0_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant0_NTNV



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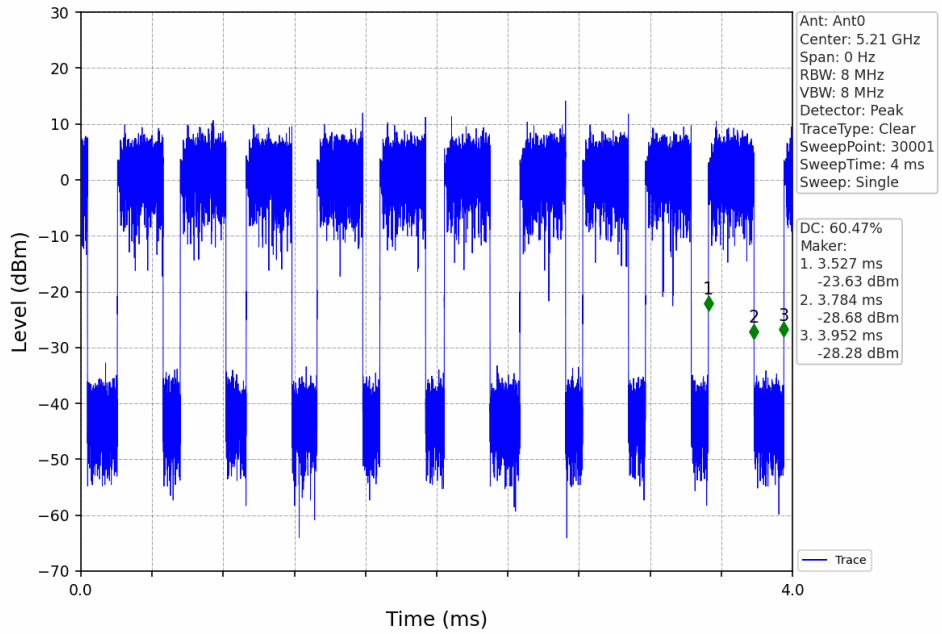
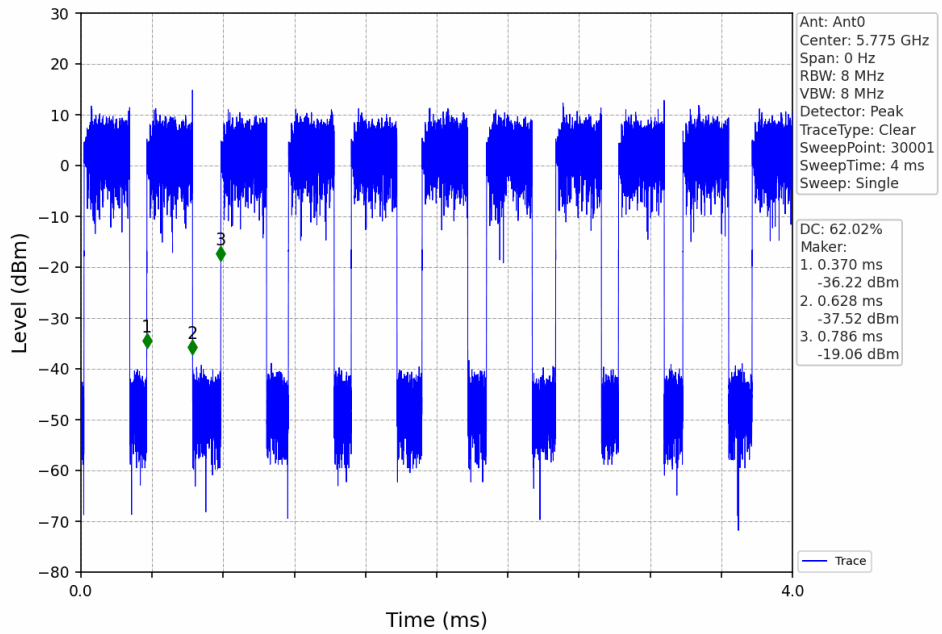
802.11ac(VHT80)_MCH_5210MHz_Ant0_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant0_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
802.11a	SISO	5180	0	16.576	Pass
		5200	0	16.576	Pass
		5240	0	16.546	Pass
		5745	0	17.919	Pass
		5785	0	17.310	Pass
		5825	0	17.398	Pass
802.11n (HT20)	MIMO	5180	0	17.596	Pass
		5200	0	17.592	Pass
		5240	0	17.591	Pass
		5745	0	17.584	Pass
		5785	0	17.586	Pass
		5825	0	17.574	Pass
802.11n (HT40)	MIMO	5190	0	36.188	Pass
		5230	0	36.204	Pass
		5755	0	36.107	Pass
		5795	0	36.157	Pass
802.11ac (VHT20)	MIMO	5180	0	17.567	Pass
		5200	0	17.632	Pass
		5240	0	17.594	Pass
		5745	0	17.646	Pass
		5785	0	17.595	Pass
		5825	0	17.579	Pass
802.11ac (VHT40)	MIMO	5190	0	35.995	Pass
		5230	0	36.011	Pass
		5755	0	36.050	Pass
		5795	0	35.957	Pass
802.11ac (VHT80)	MIMO	5210	0	75.481	Pass
		5775	0	75.242	Pass

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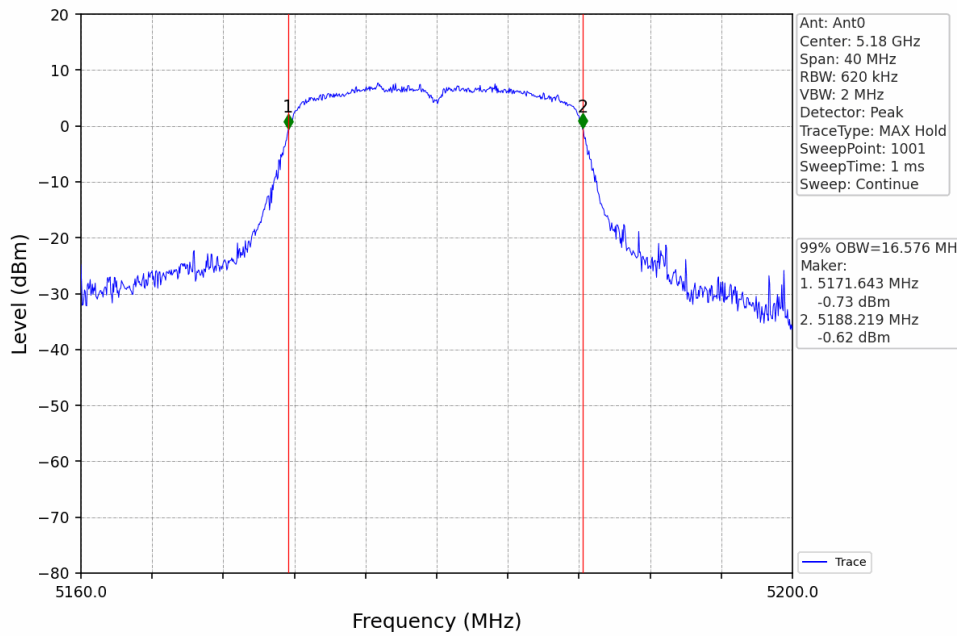
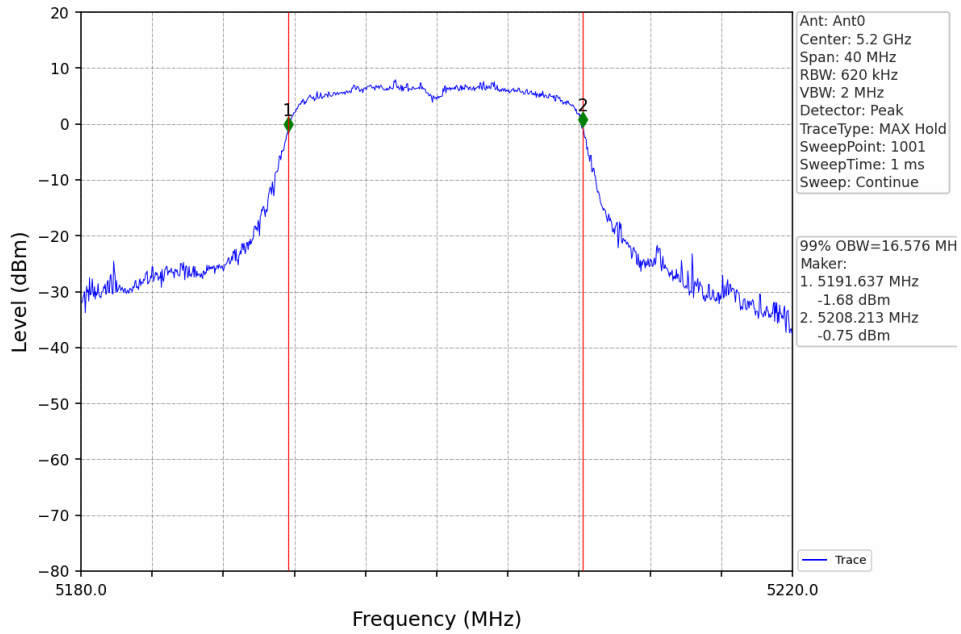
2.1.2 Test Graph

802.11a_LCH_5180MHz_Ant0_NTNV



802.11a_MCH_5200MHz_Ant0_NTNV



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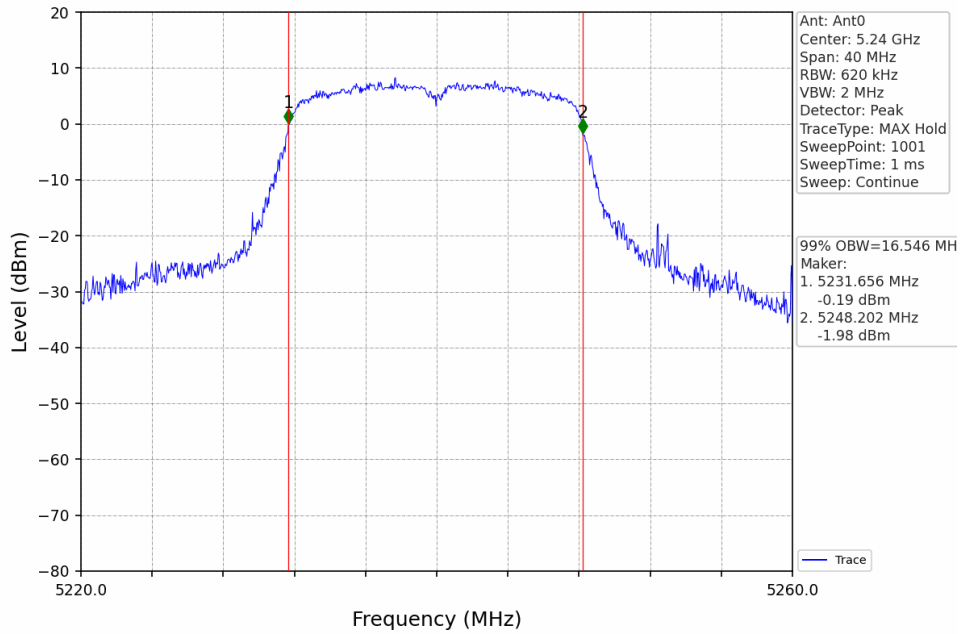
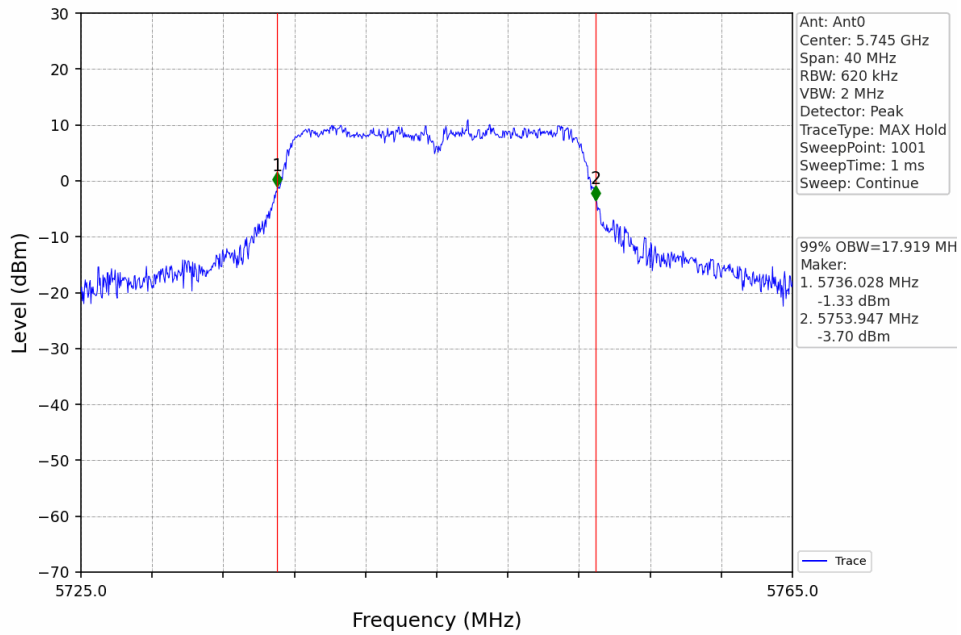
802.11a_HCH_5240MHz_Ant0_NTNV



802.11a_LCH_5745MHz_Ant0_NTNV



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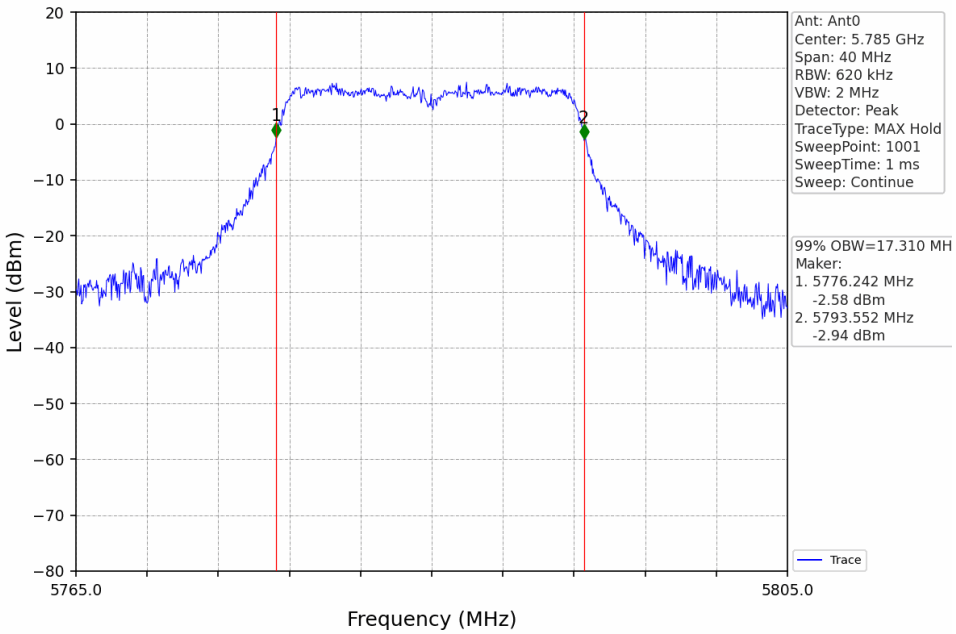
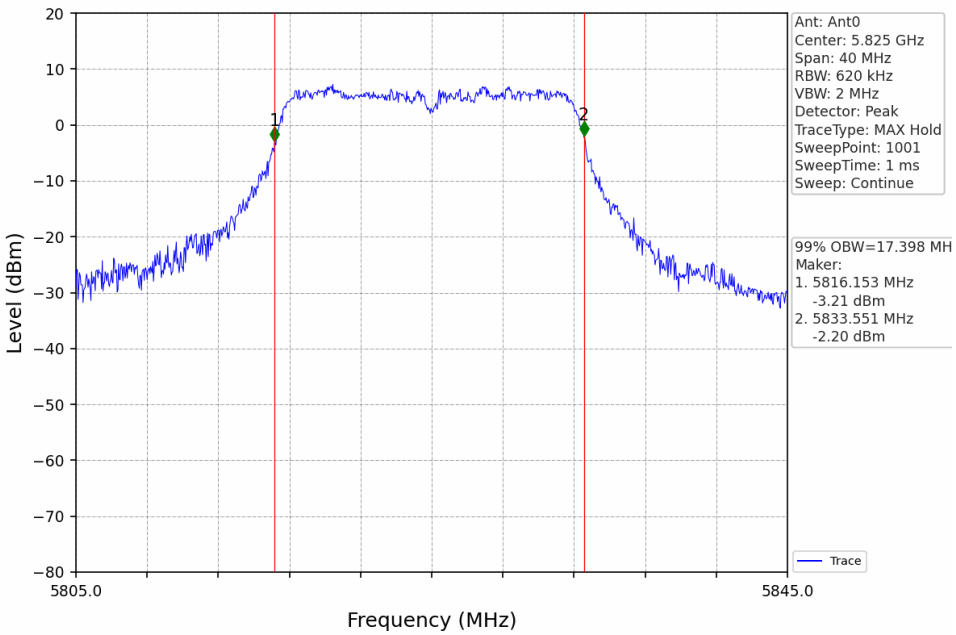
802.11a_MCH_5785MHz_Ant0_NTNV



802.11a_HCH_5825MHz_Ant0_NTNV



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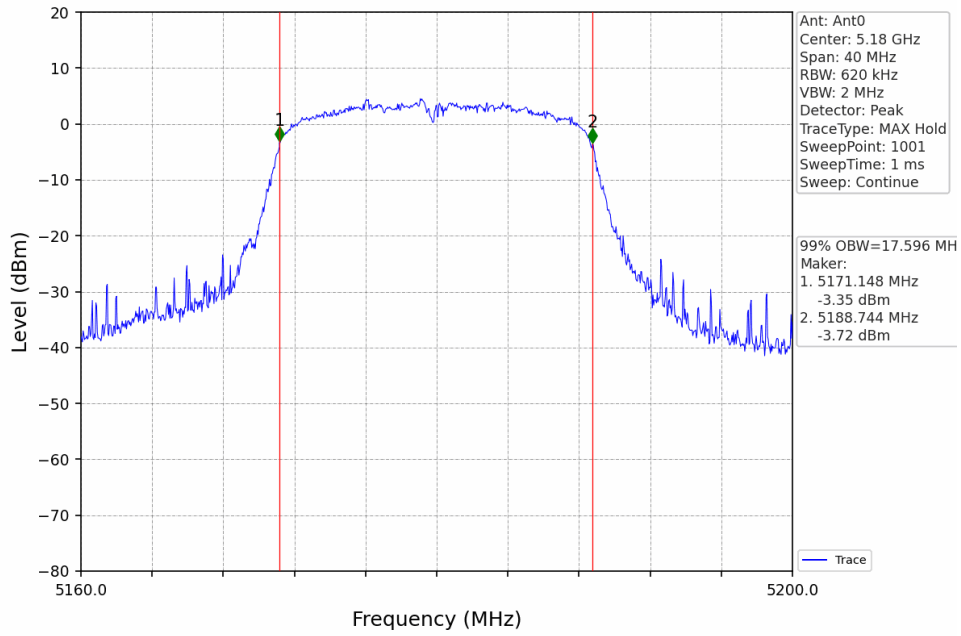
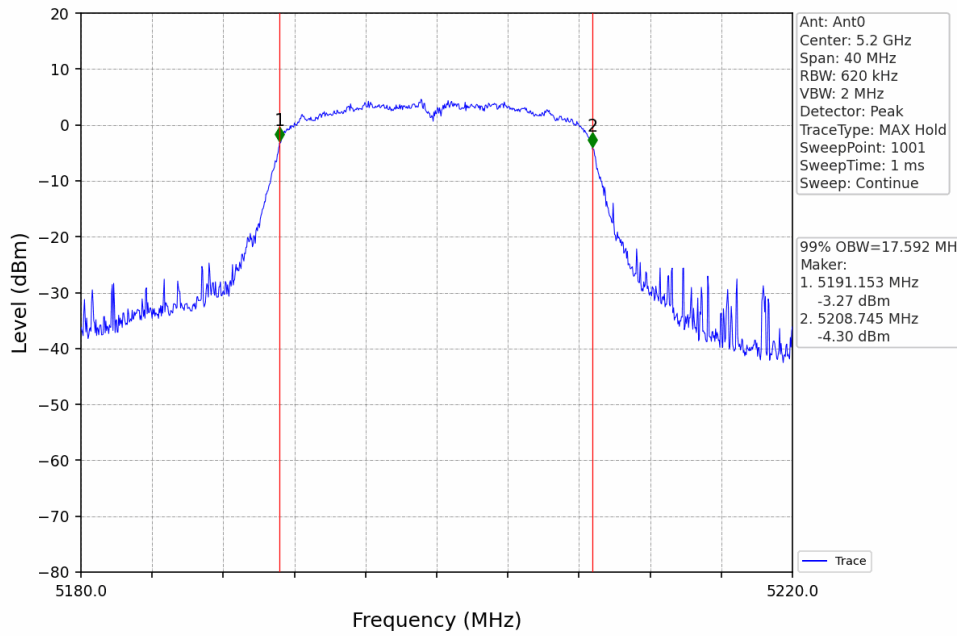
802.11n(HT20)_LCH_5180MHz_Ant0_NTNV



802.11n(HT20)_MCH_5200MHz_Ant0_NTNV



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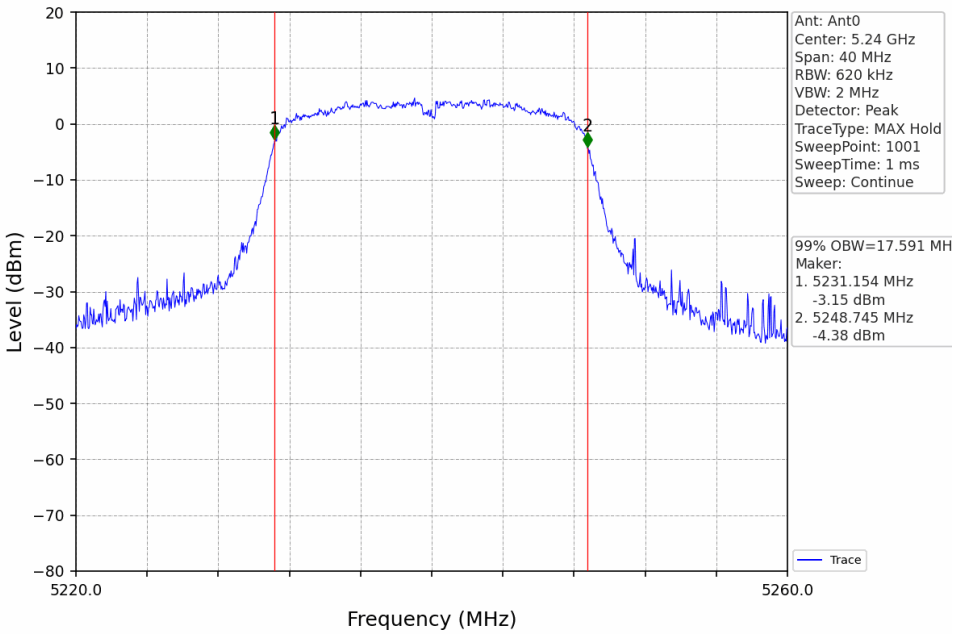
802.11n(HT20)_HCH_5240MHz_Ant0_NTNV



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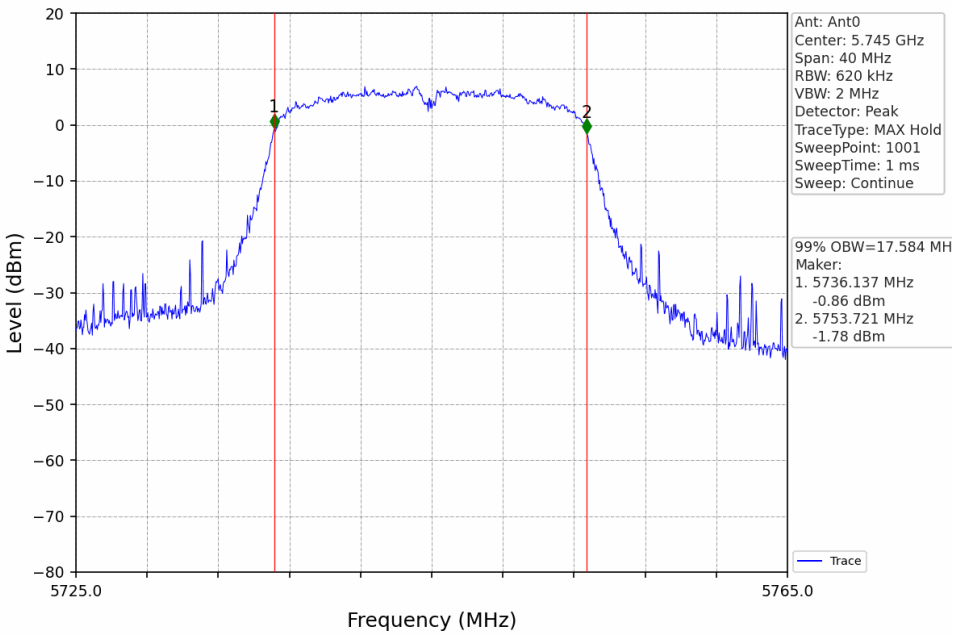

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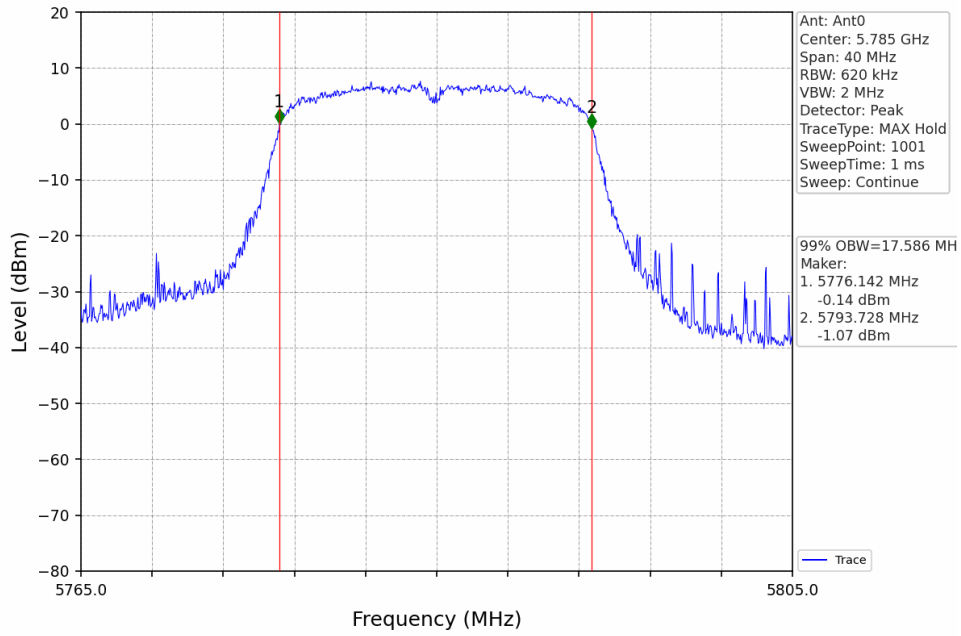
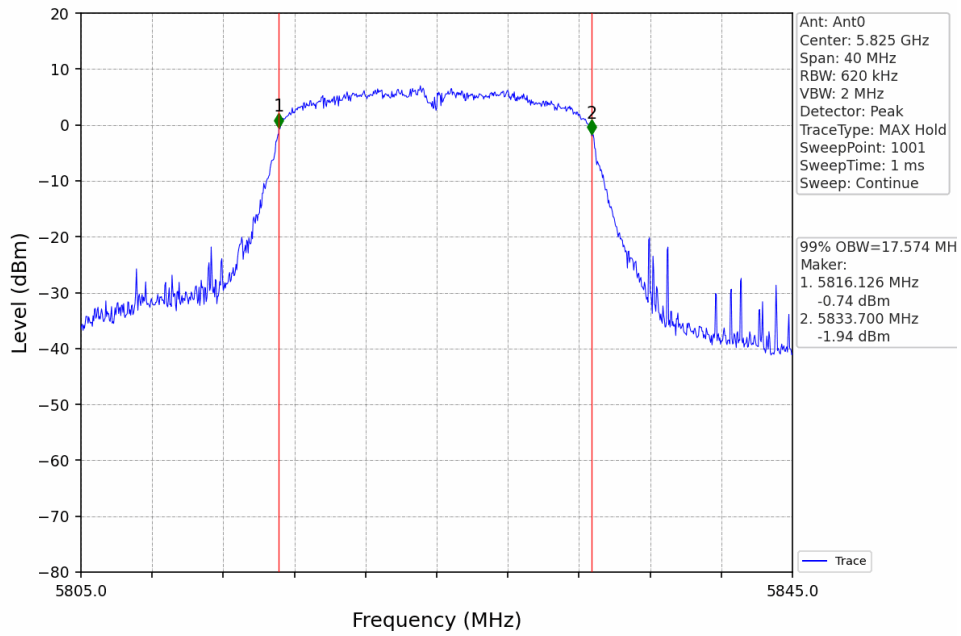
802.11n(HT20)_MCH_5785MHz_Ant0_NTNV



802.11n(HT20)_HCH_5825MHz_Ant0_NTNV



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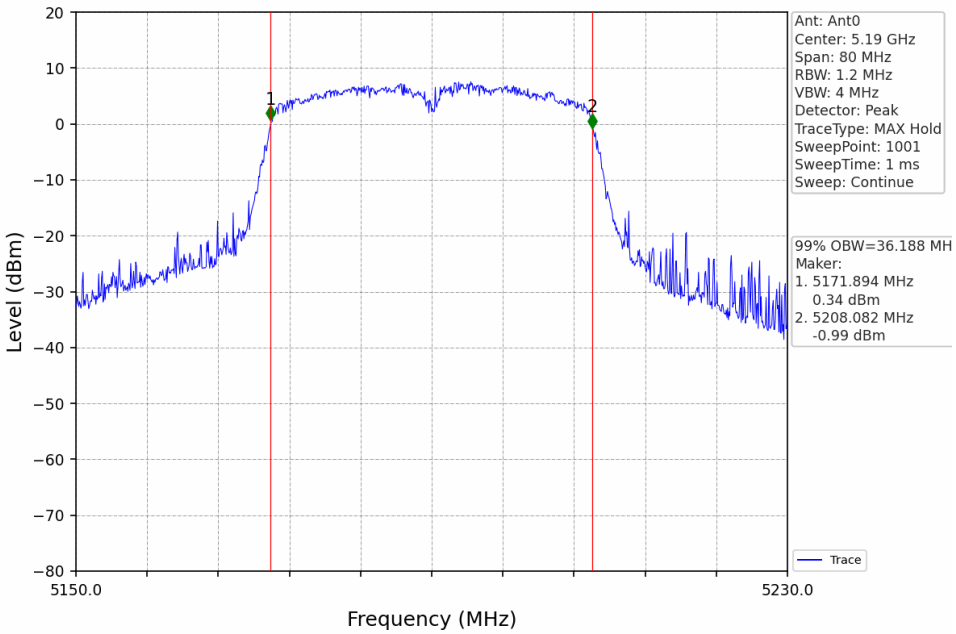
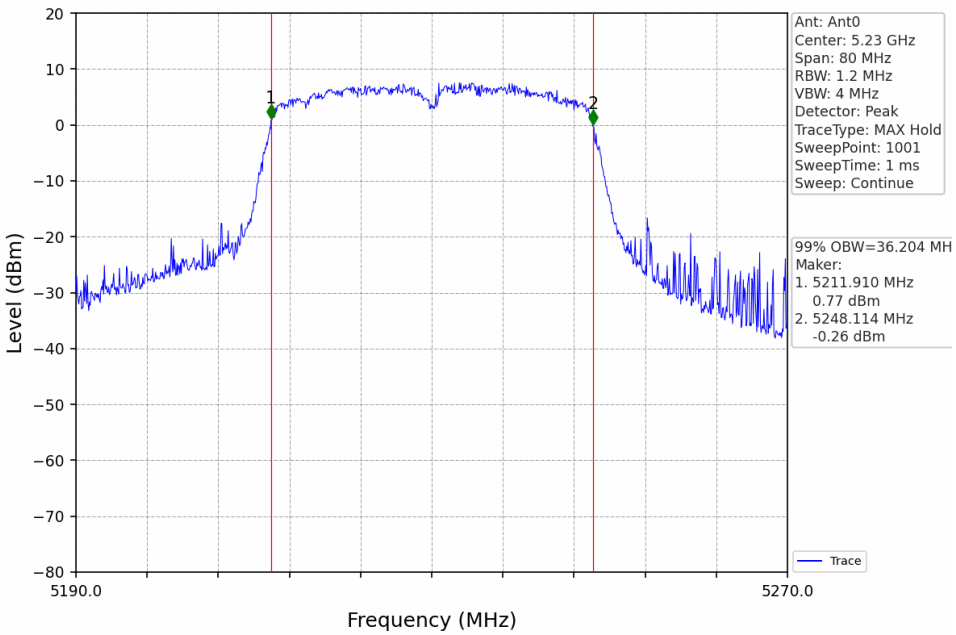
802.11n(HT40)_LCH_5190MHz_Ant0_NTNV



802.11n(HT40)_HCH_5230MHz_Ant0_NTNV



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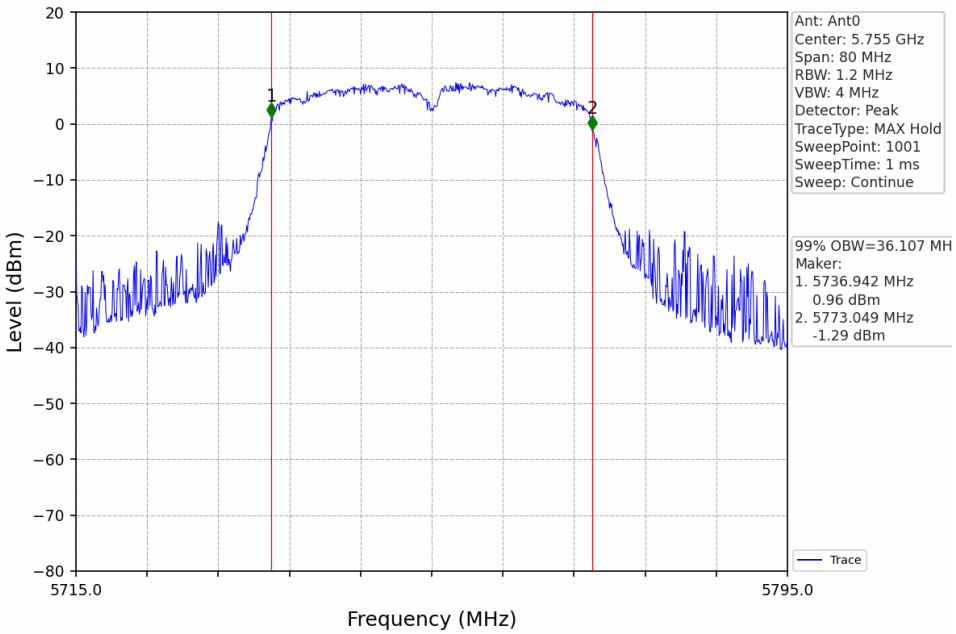
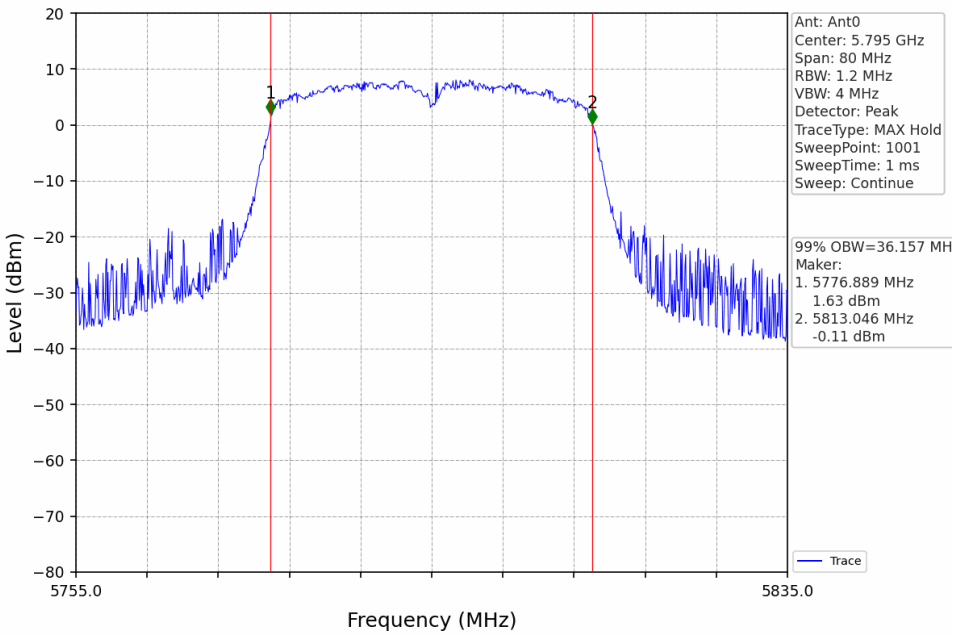
802.11n(HT40)_LCH_5755MHz_Ant0_NTNV



802.11n(HT40)_HCH_5795MHz_Ant0_NTNV



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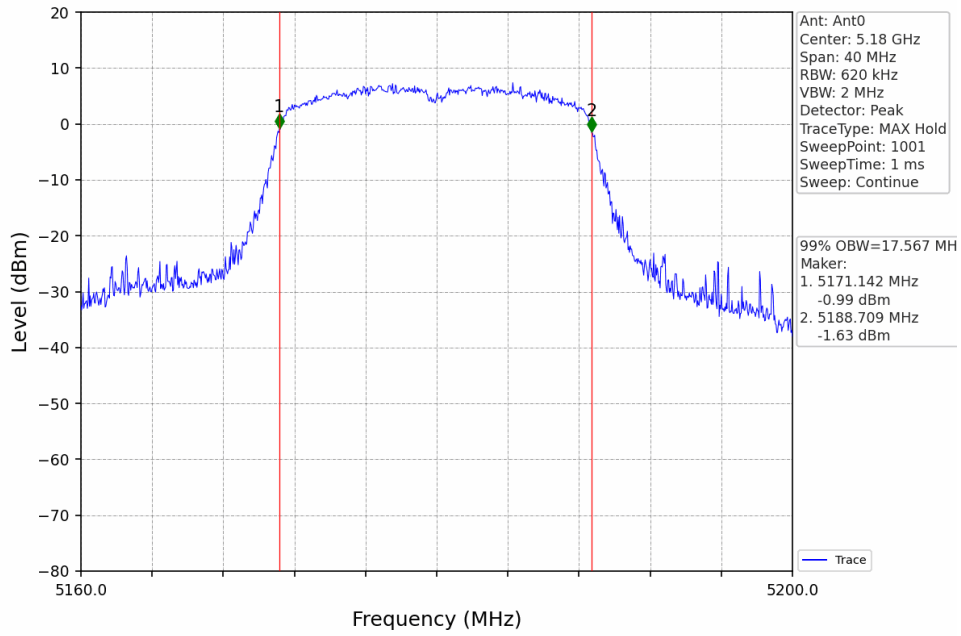
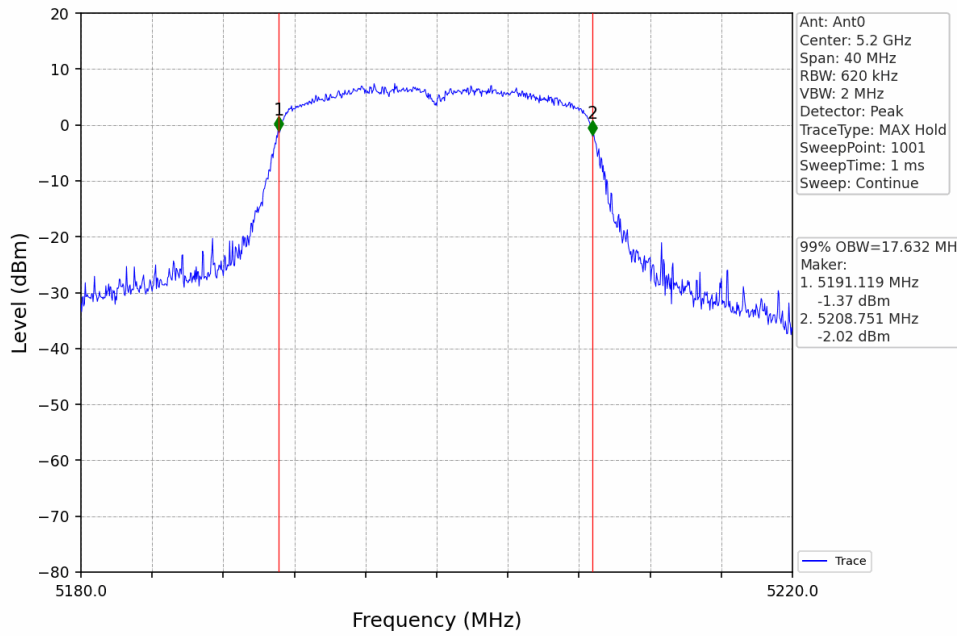
802.11ac(VHT20)_LCH_5180MHz_Ant0_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant0_NTNV



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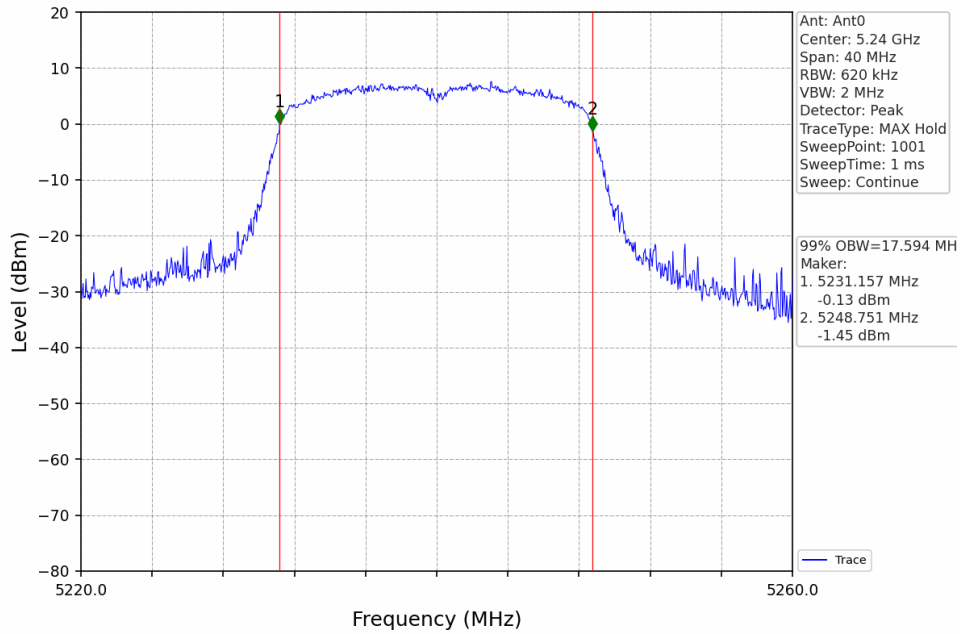
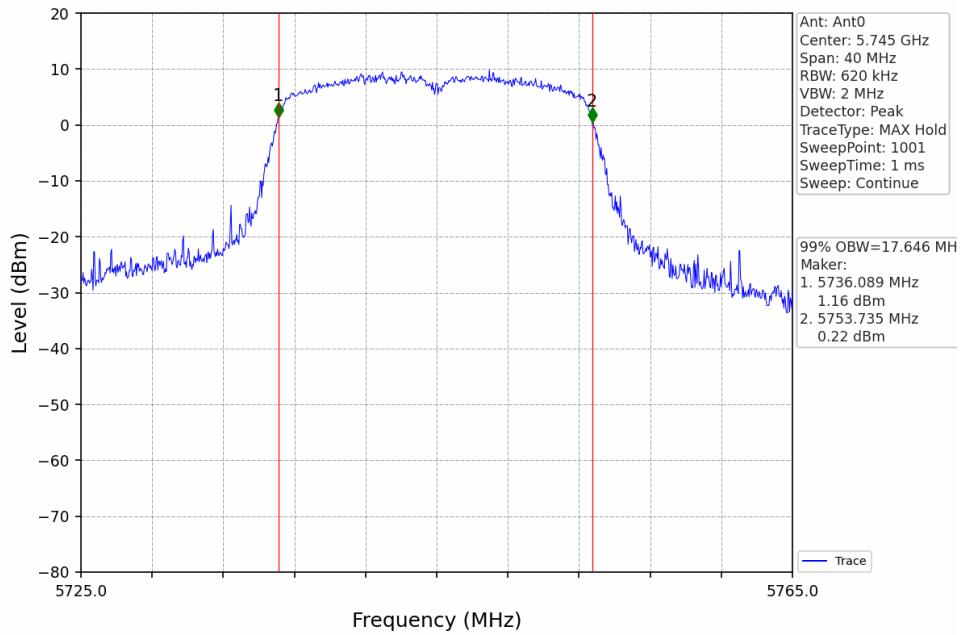
802.11ac(VHT20)_HCH_5240MHz_Ant0_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant0_NTNV



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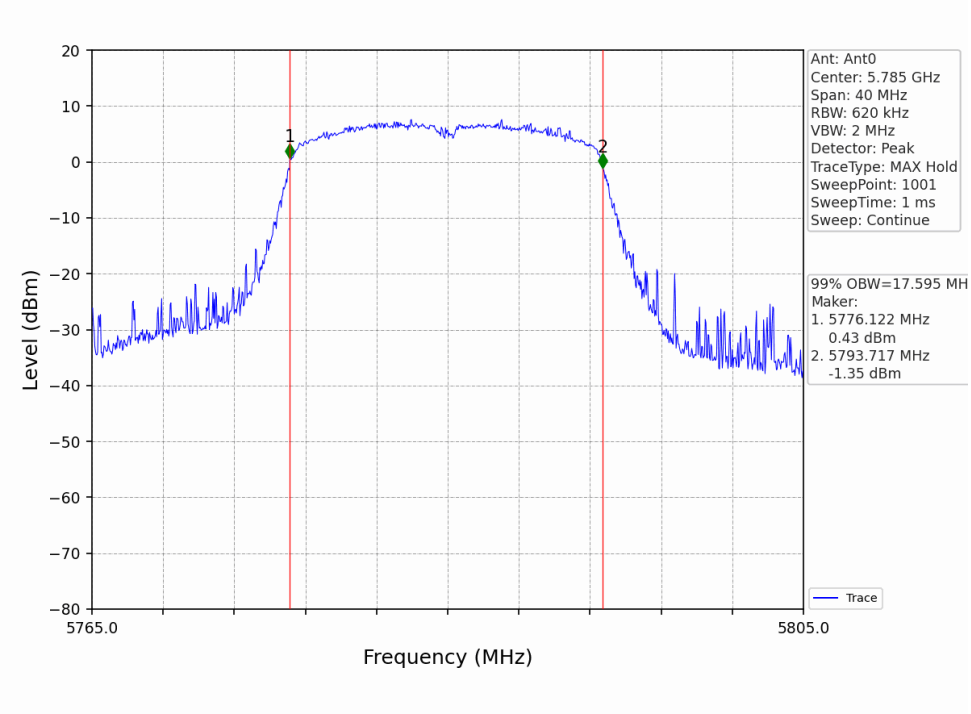
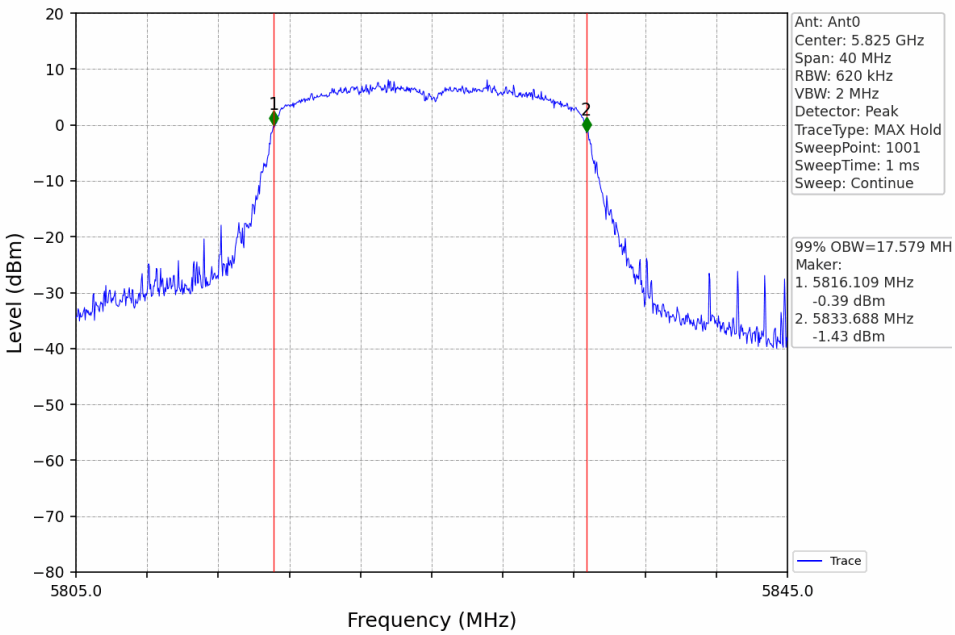
802.11ac(VHT20)_MCH_5785MHz_Ant0_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant0_NTNV



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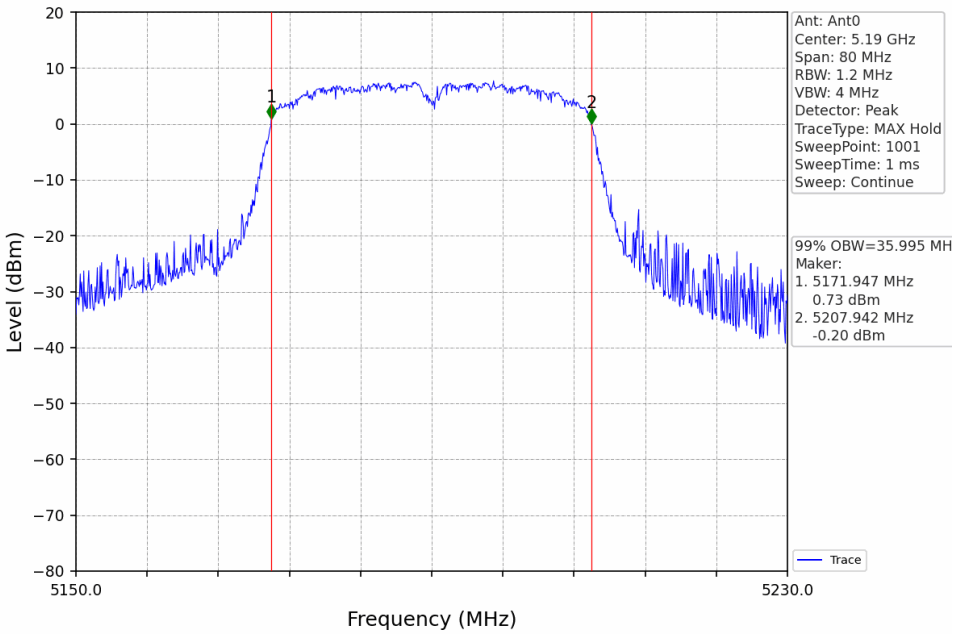
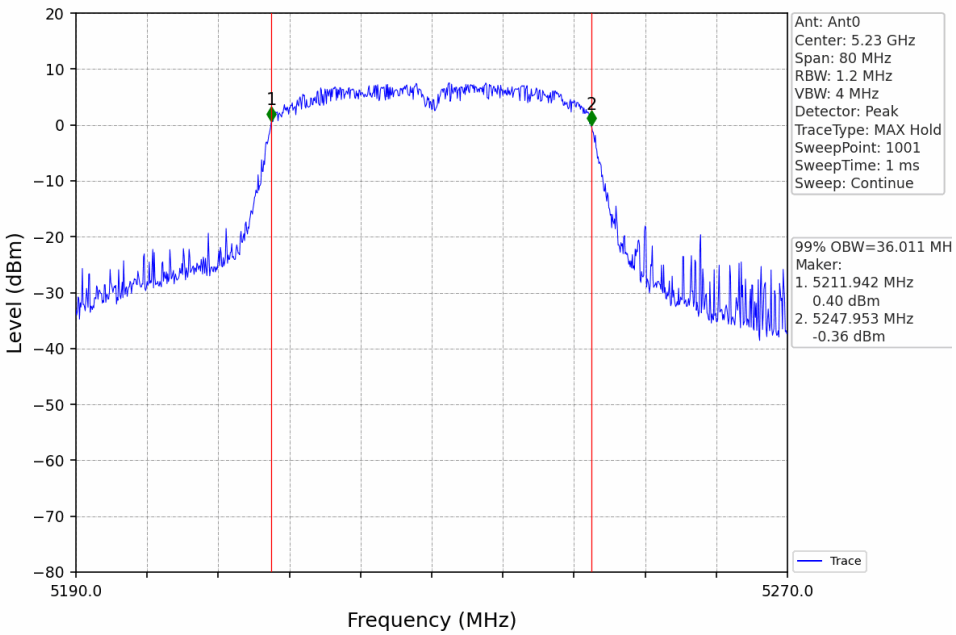
802.11ac(VHT40)_LCH_5190MHz_Ant0_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant0_NTNV



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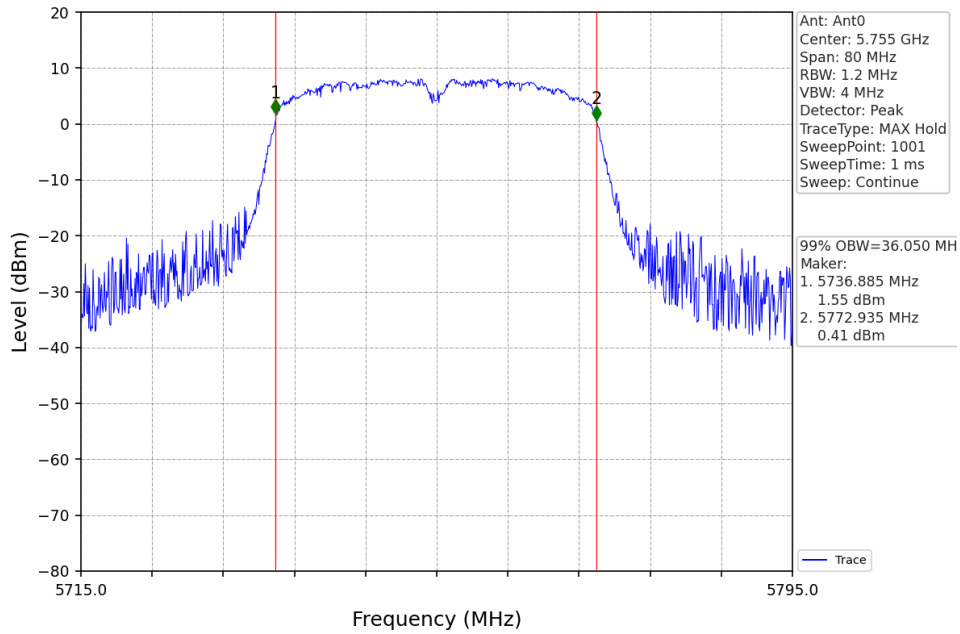
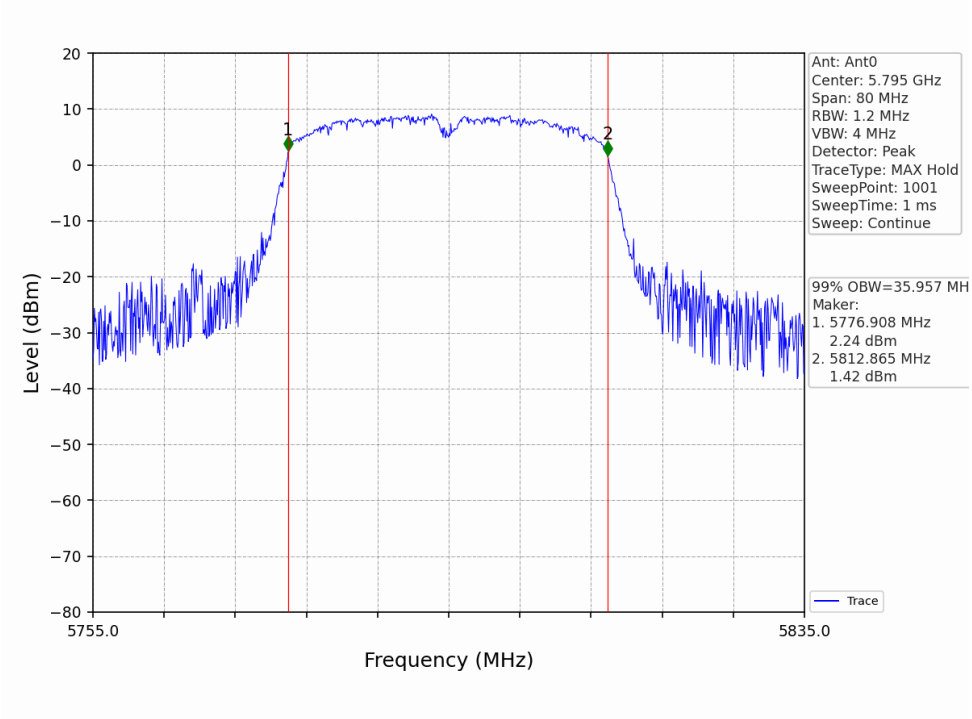
802.11ac(VHT40)_LCH_5755MHz_Ant0_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant0_NTNV



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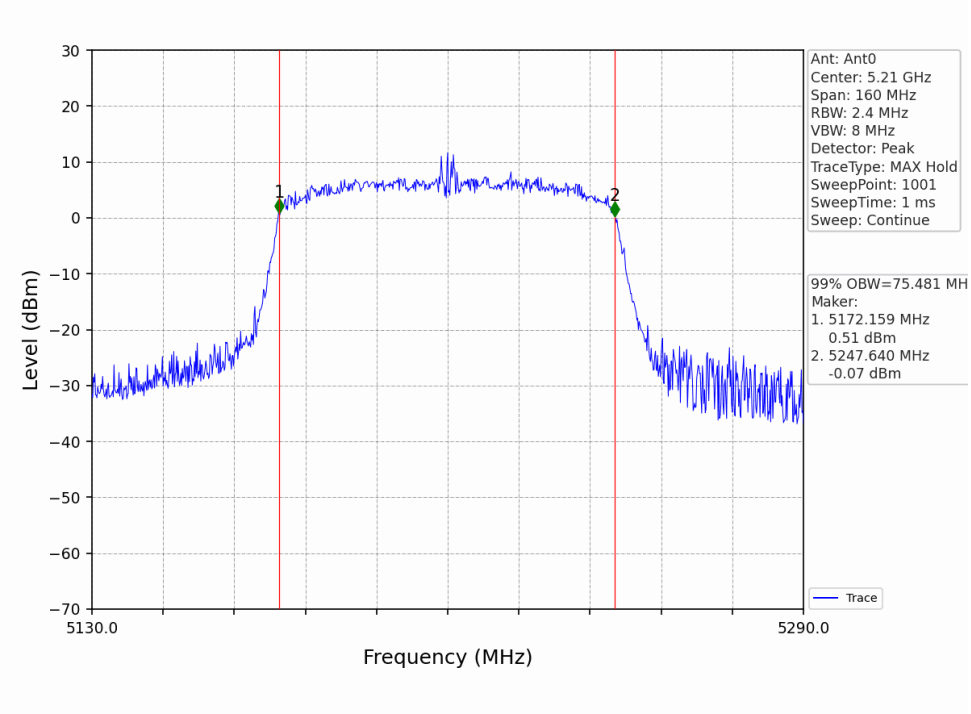
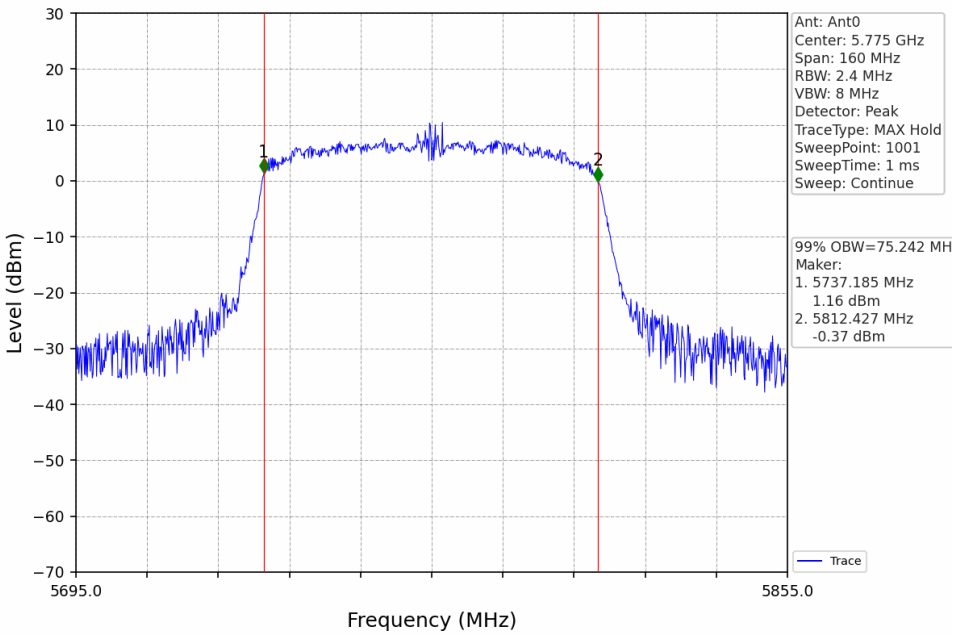
802.11ac(VHT80)_MCH_5210MHz_Ant0_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant0_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	0	16.469	>=0.5	Pass
		5785	0	16.474	>=0.5	Pass
		5825	0	16.510	>=0.5	Pass
802.11n (HT20)	MIMO	5745	0	15.430	>=0.5	Pass
		5785	0	14.992	>=0.5	Pass
		5825	0	14.234	>=0.5	Pass
802.11n (HT40)	MIMO	5755	0	35.112	>=0.5	Pass
		5795	0	35.030	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	0	15.185	>=0.5	Pass
		5785	0	15.149	>=0.5	Pass
		5825	0	15.071	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	0	35.141	>=0.5	Pass
		5795	0	35.154	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	0	75.114	>=0.5	Pass

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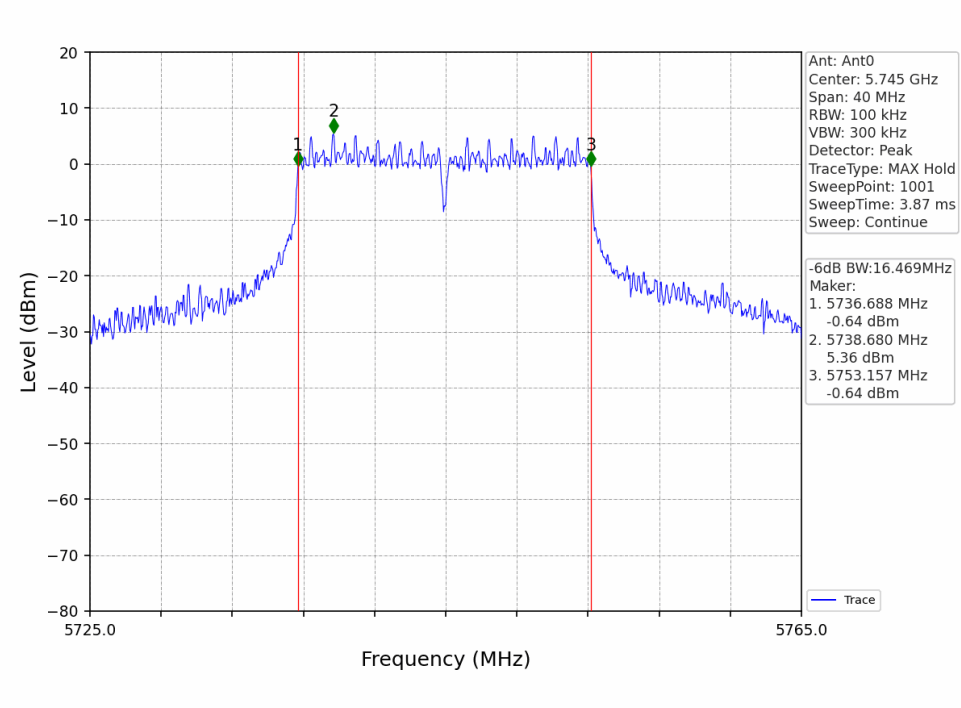
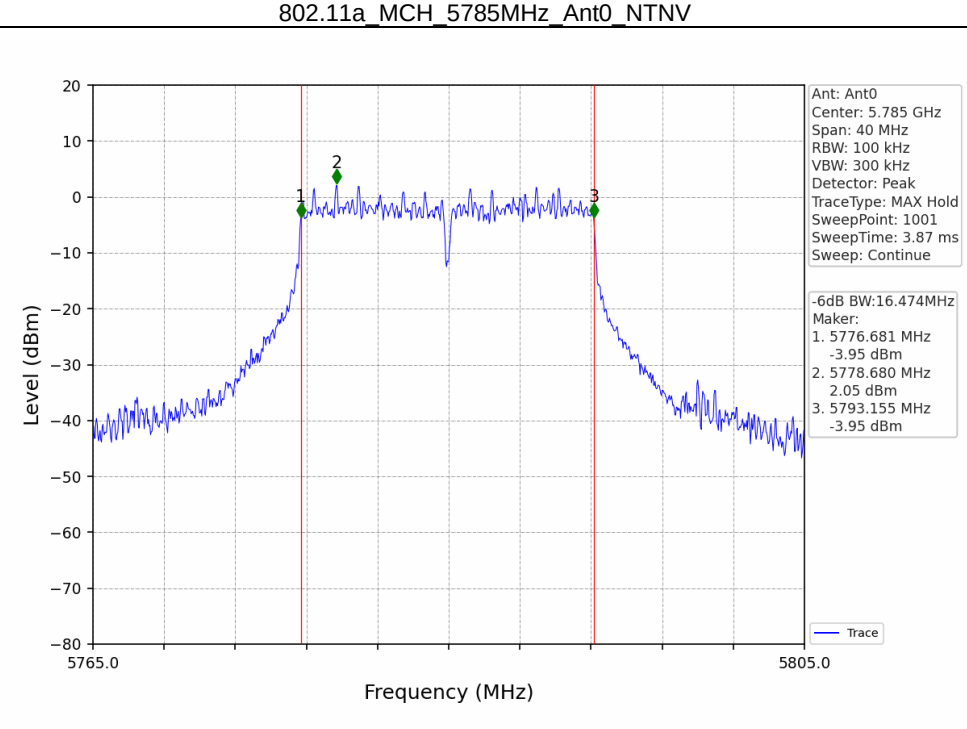
2.2.2 Test Graph

802.11a_LCH_5745MHz_Ant0_NTNV



802.11a_MCH_5785MHz_Ant0_NTNV



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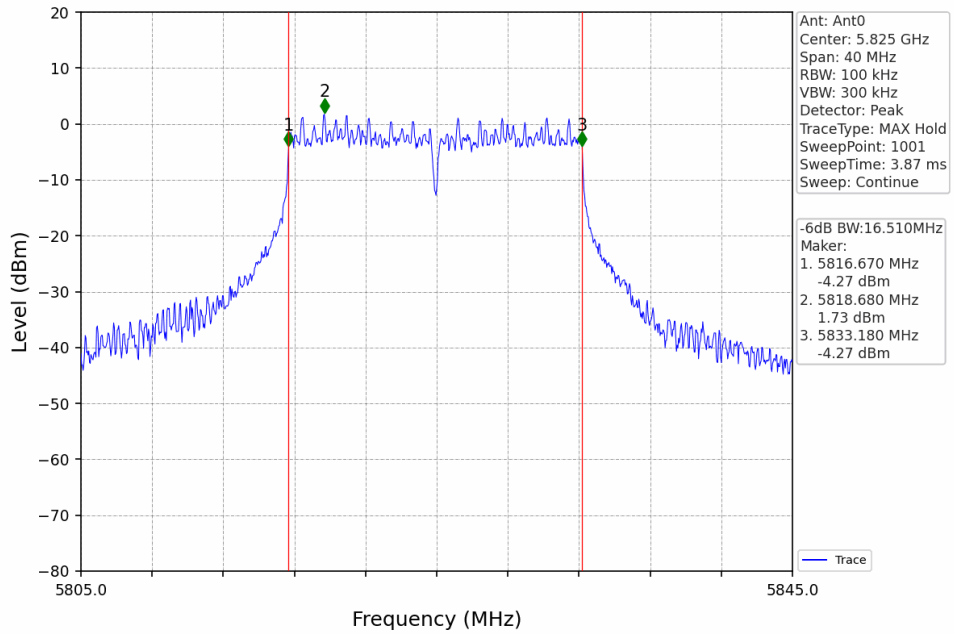

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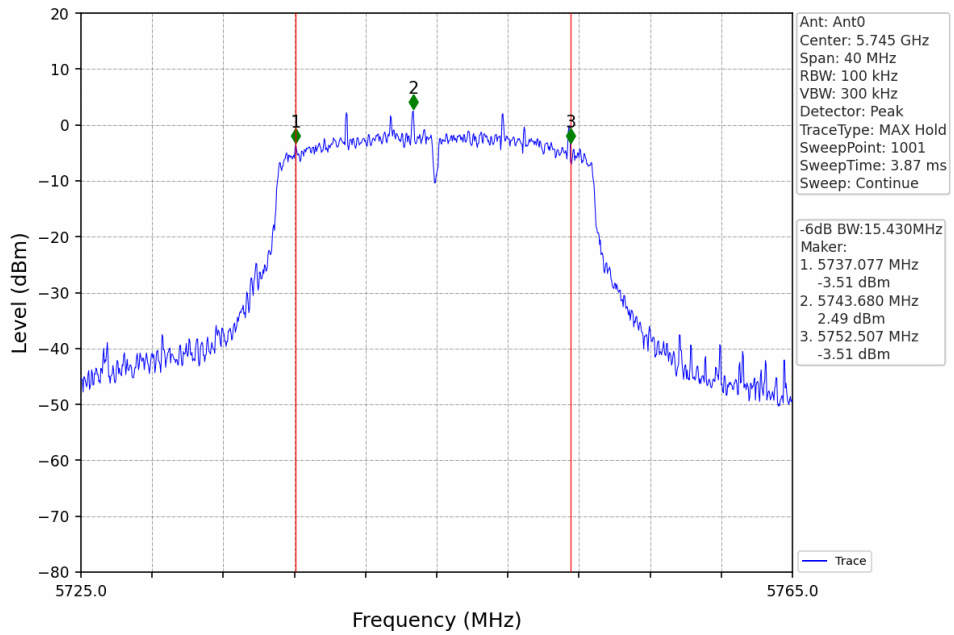

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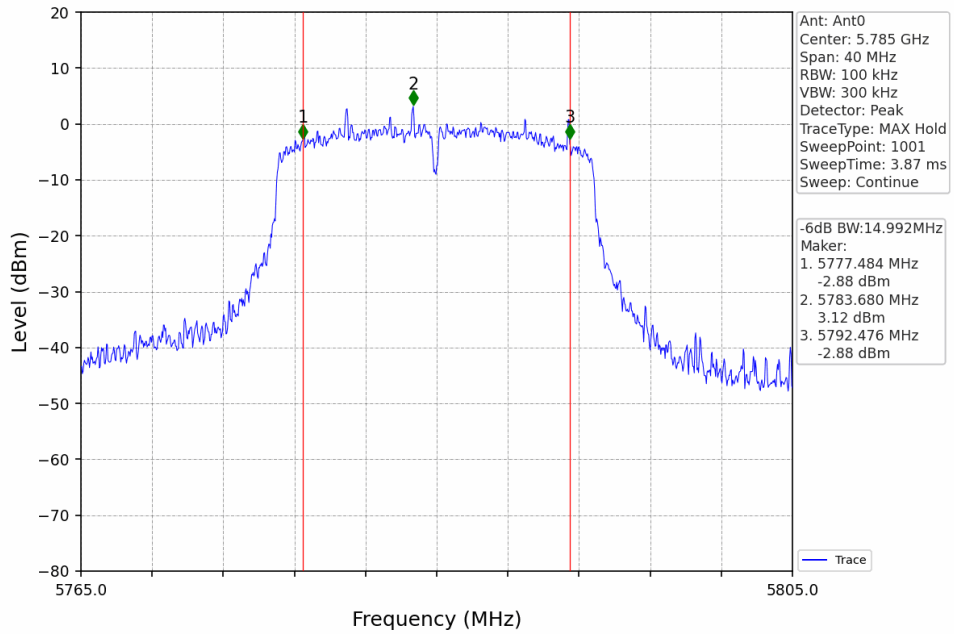
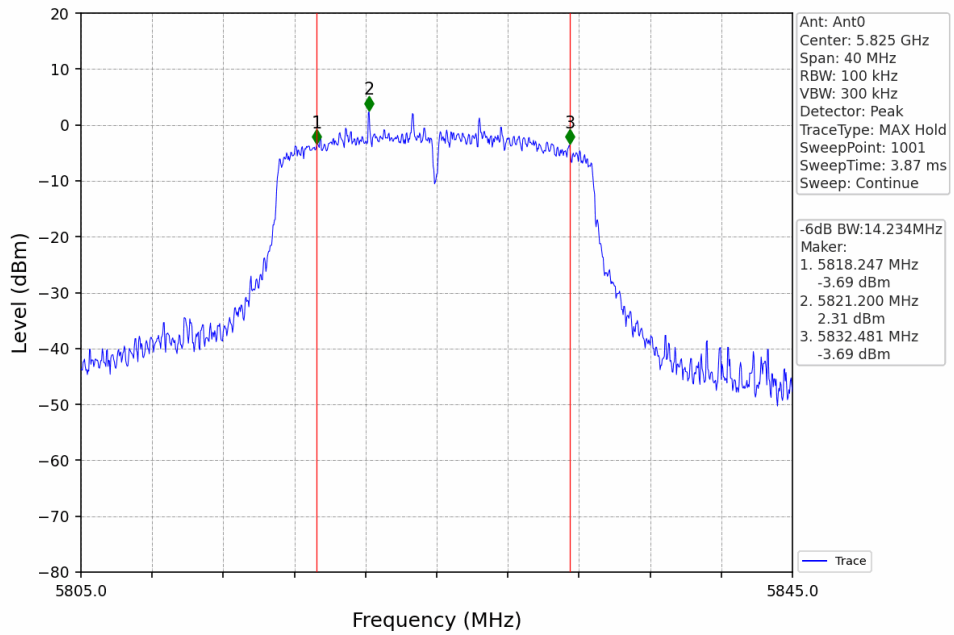
802.11n(HT20)_MCH_5785MHz_Ant0_NTNV



802.11n(HT20)_HCH_5825MHz_Ant0_NTNV



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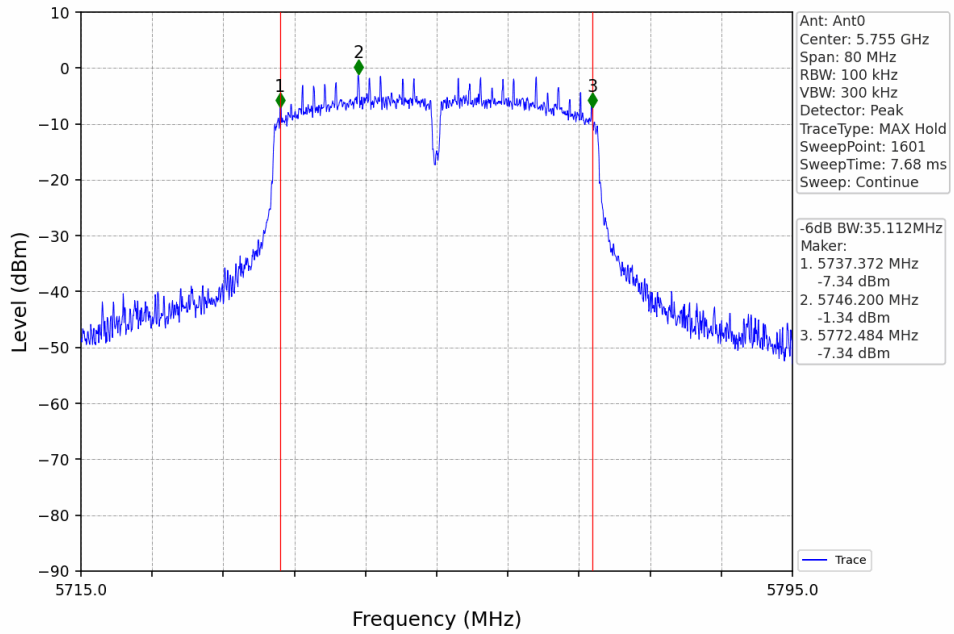
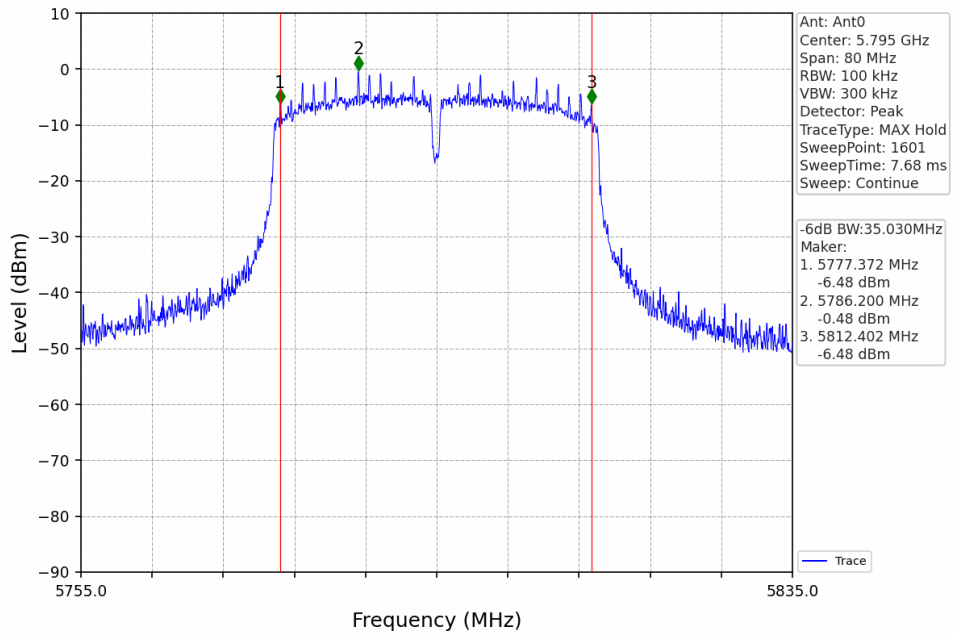
802.11n(HT40)_LCH_5755MHz_Ant0_NTNV



802.11n(HT40)_HCH_5795MHz_Ant0_NTNV



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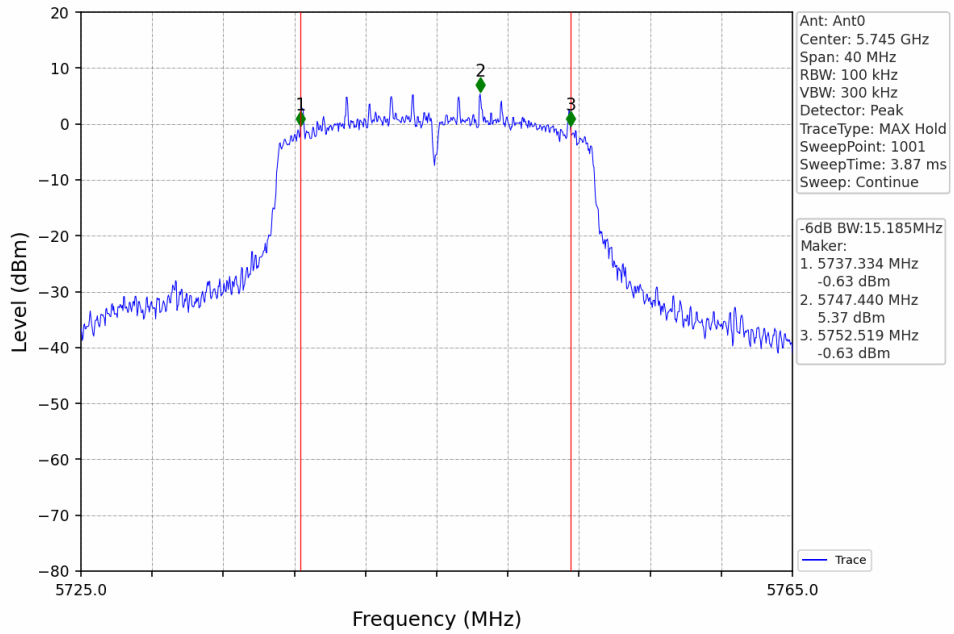
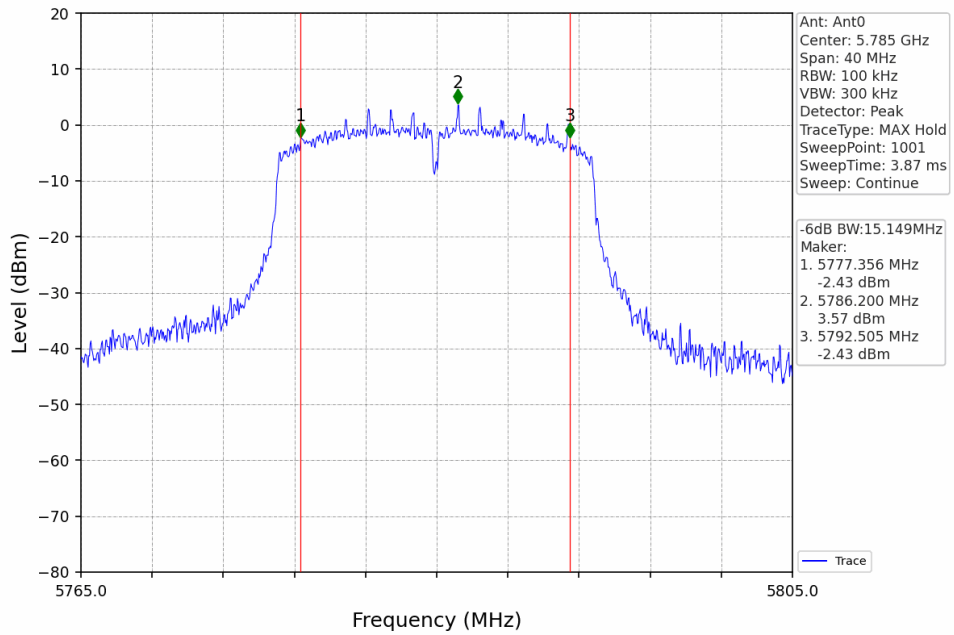
802.11ac(VHT20)_LCH_5745MHz_Ant0_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant0_NTNV



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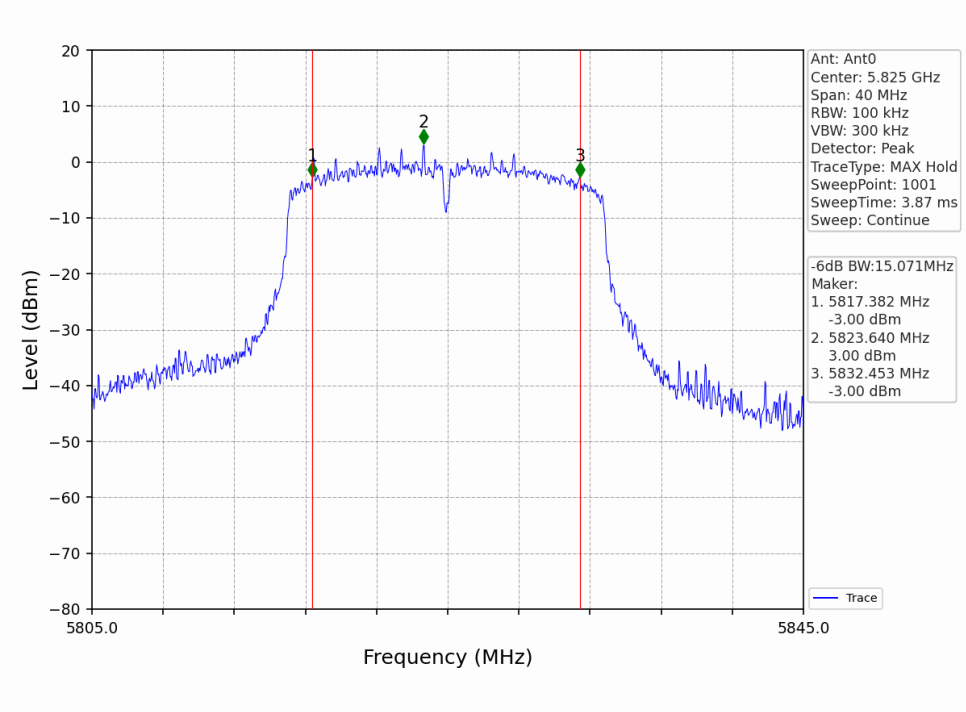
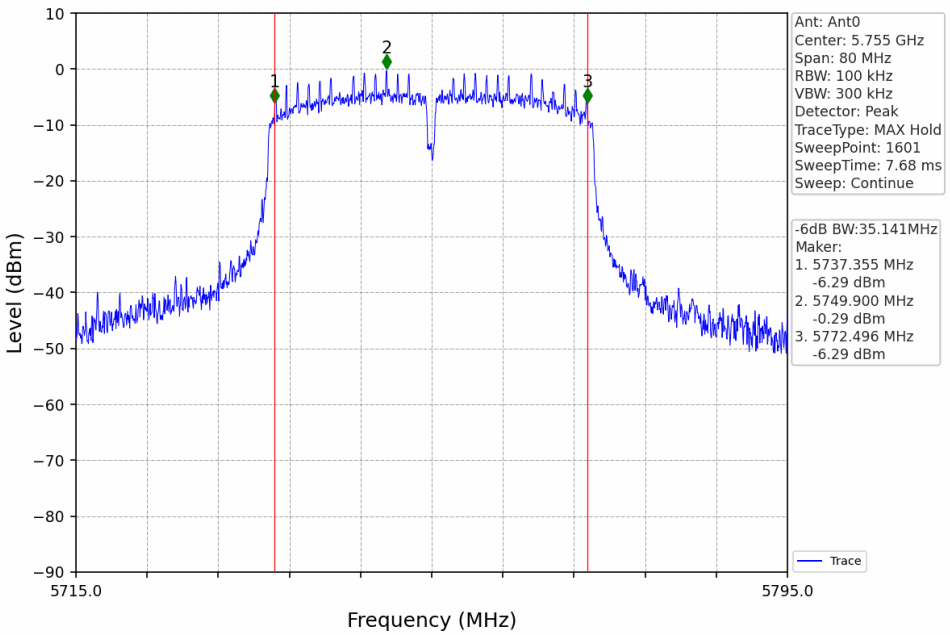
802.11ac(VHT20)_HCH_5825MHz_Ant0_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant0_NTNV



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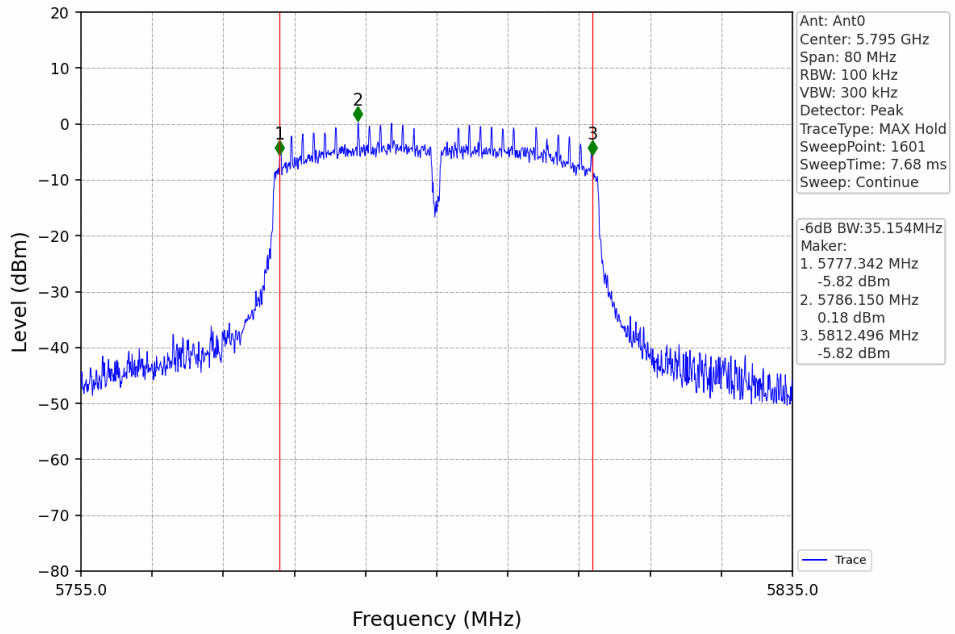
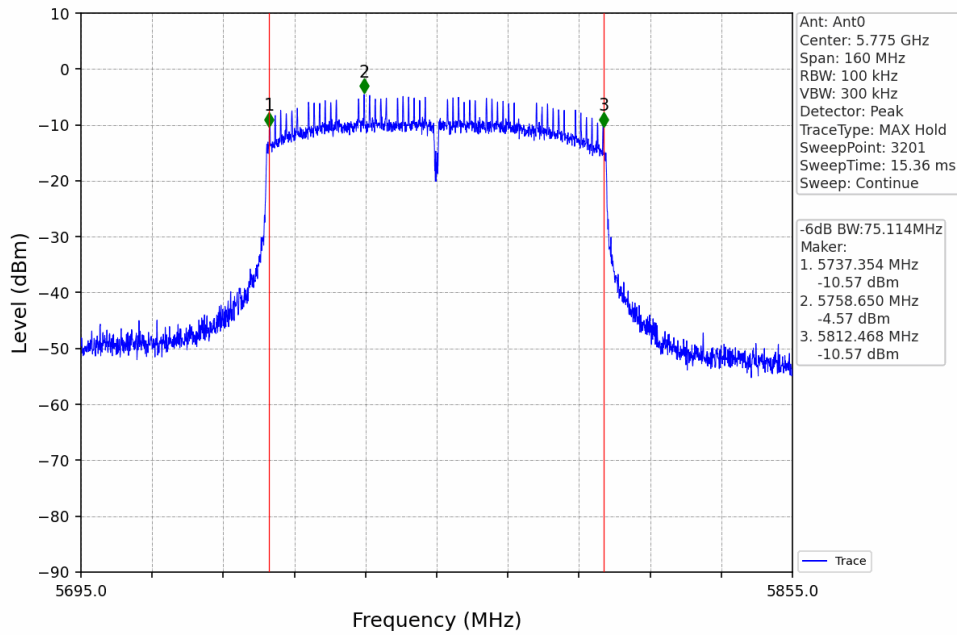
802.11ac(VHT40)_HCH_5795MHz_Ant0_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant0_NTNV



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2.3 26dB BW

2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz) Result	Verdict
802.11a	SISO	5180	0	20.325	Pass
		5200	0	21.953	Pass
		5240	0	20.664	Pass
802.11n (HT20)	MIMO	5180	0	20.829	Pass
		5200	0	20.829	Pass
		5240	0	20.871	Pass
802.11n (HT40)	MIMO	5190	0	52.696	Pass
		5230	0	44.494	Pass
802.11ac (VHT20)	MIMO	5180	0	21.005	Pass
		5200	0	21.058	Pass
		5240	0	20.820	Pass
802.11ac (VHT40)	MIMO	5190	0	47.472	Pass
		5230	0	47.227	Pass
802.11ac (VHT80)	MIMO	5210	0	83.122	Pass

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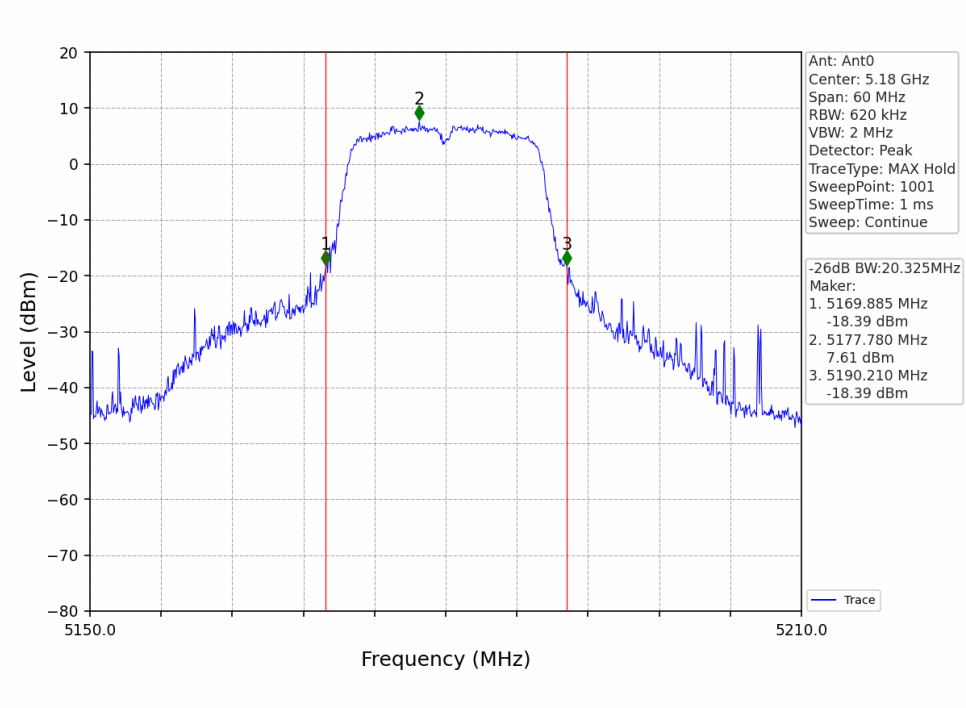
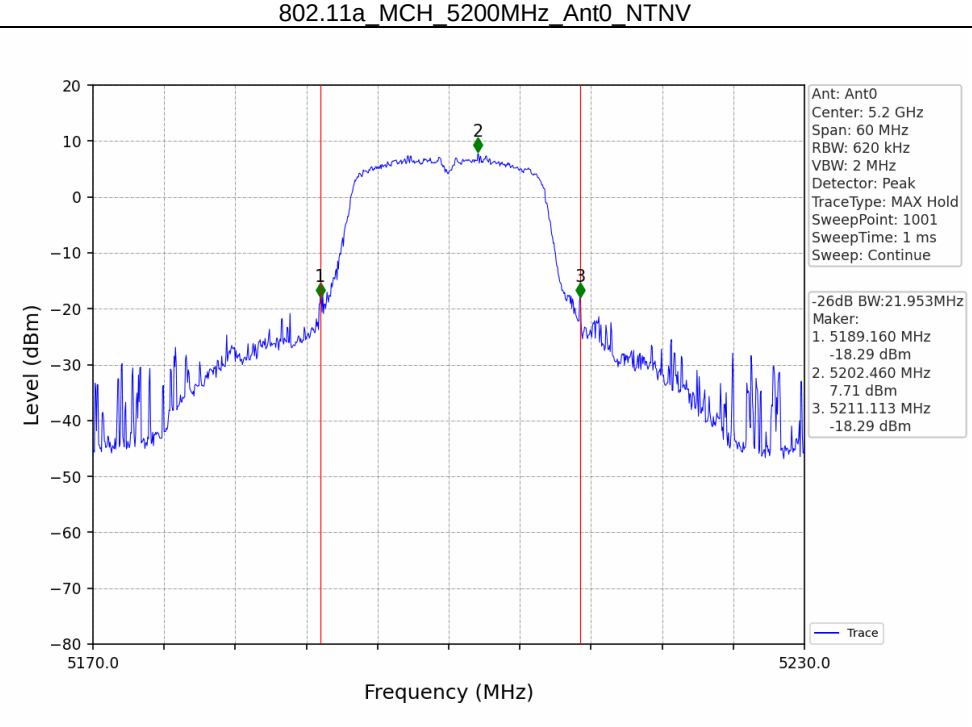
2.3.2 Test Graph

802.11a_LCH_5180MHz_Ant0_NTNV



802.11a_MCH_5200MHz_Ant0_NTNV



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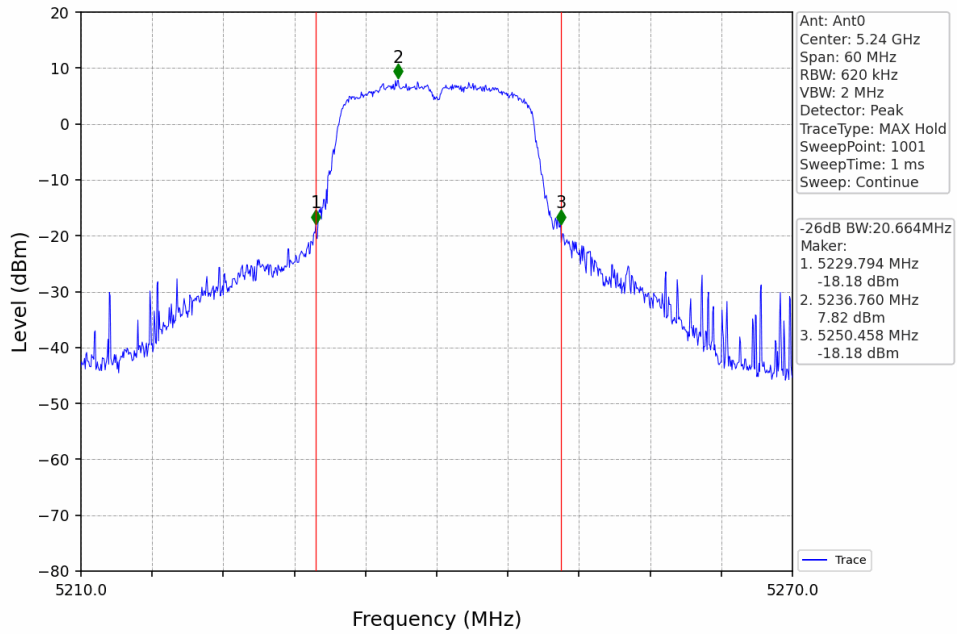
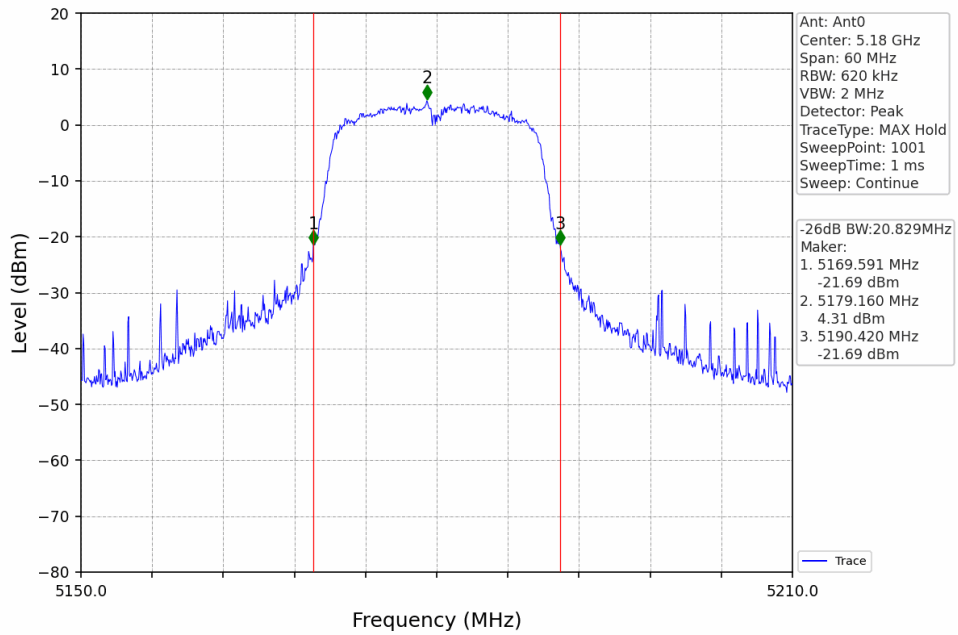


802.11n(HT20)_LCH_5180MHz_Ant0_NTNV



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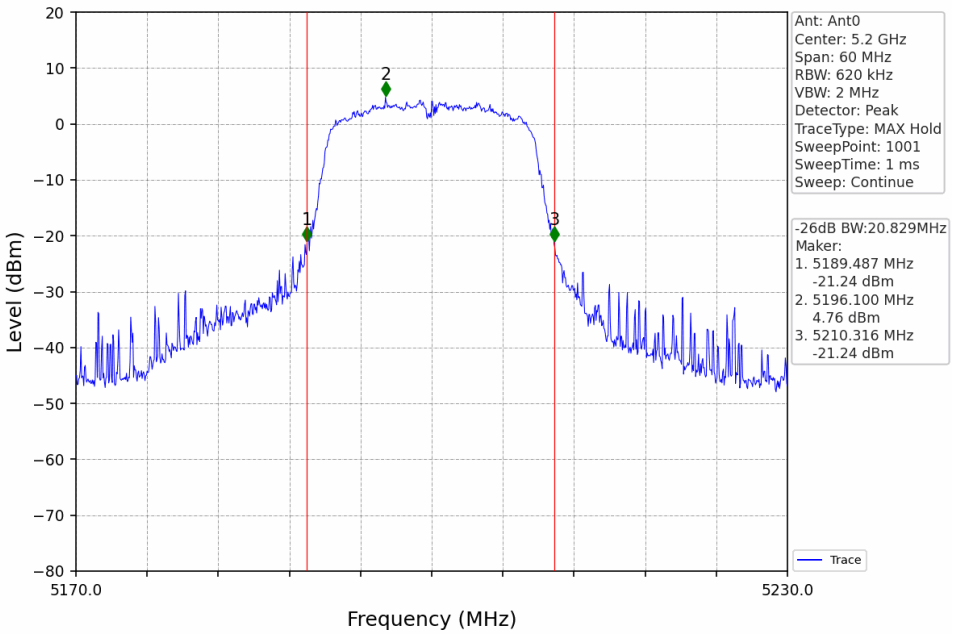
802.11n(HT20)_MCH_5200MHz_Ant0_NTNV



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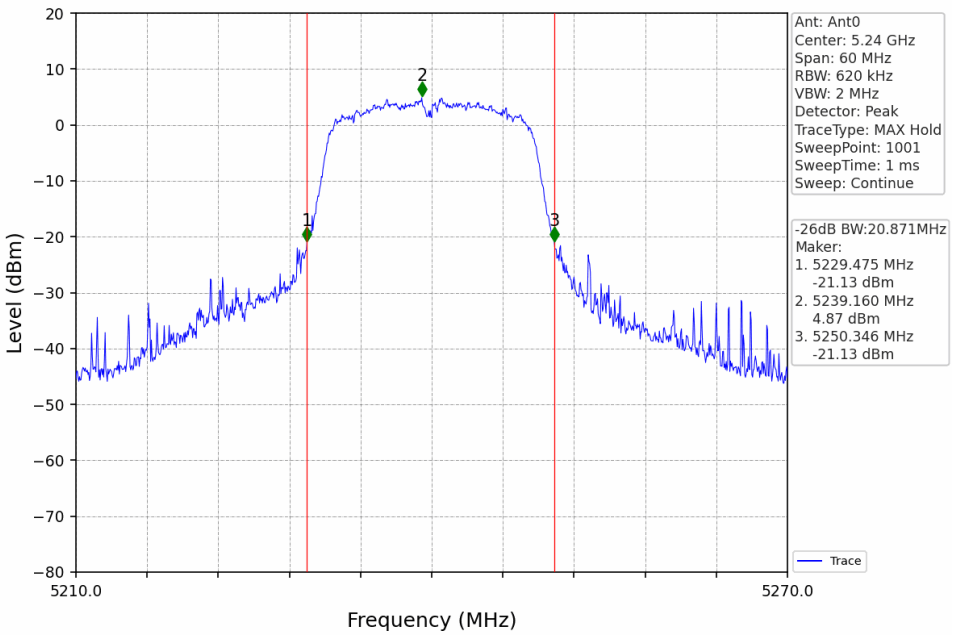

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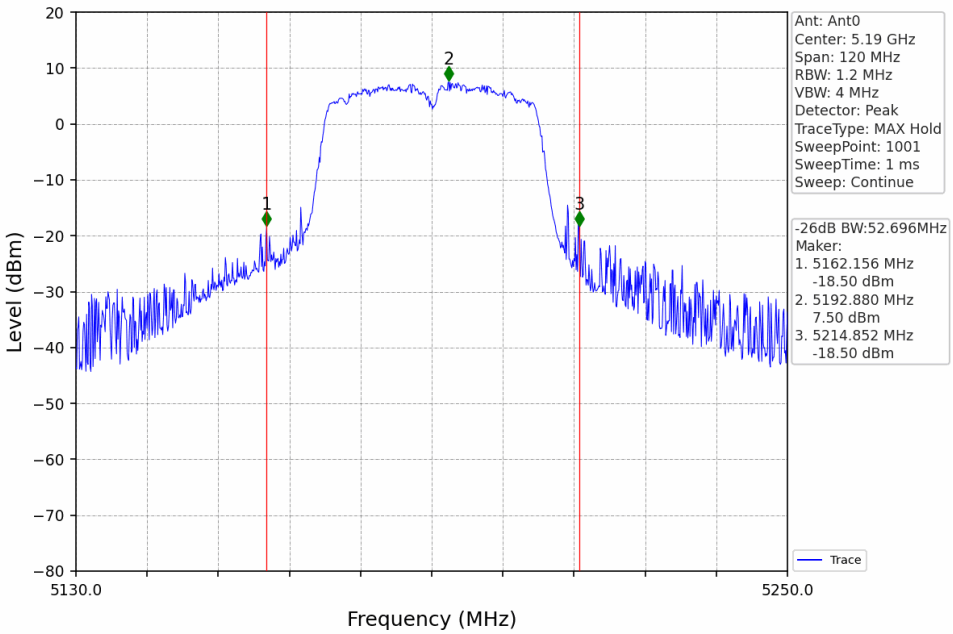

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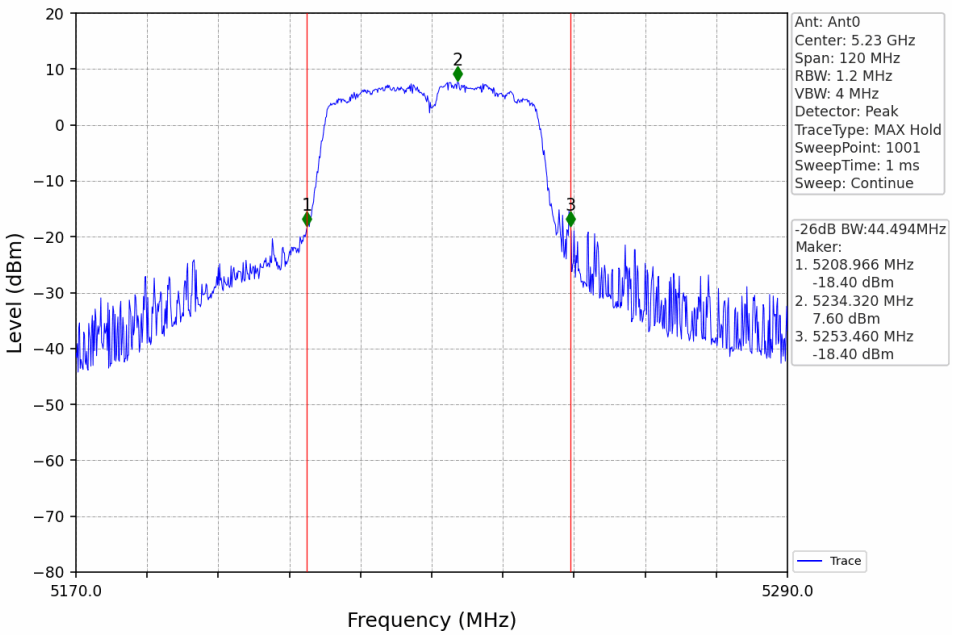

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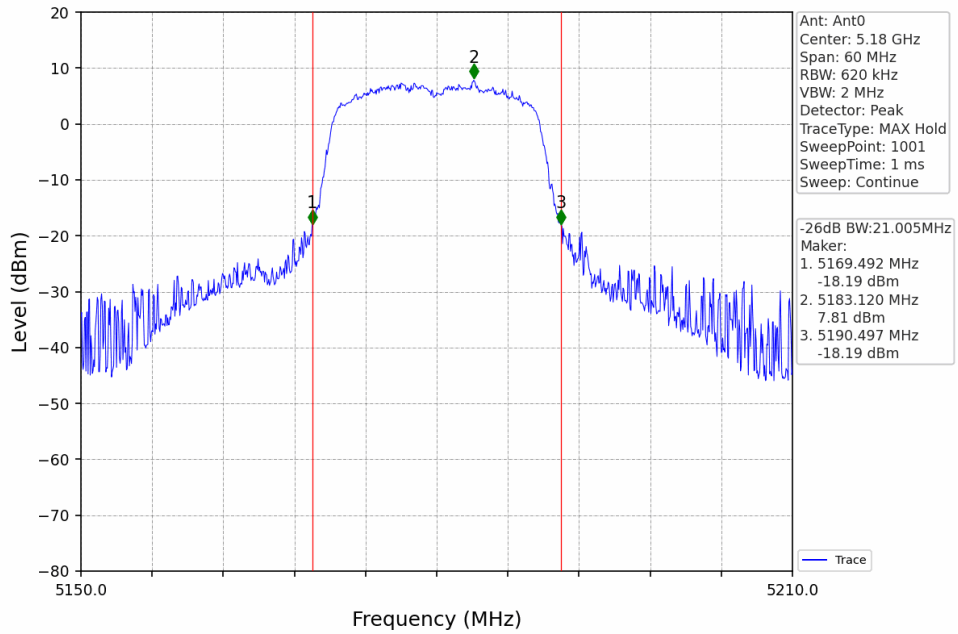
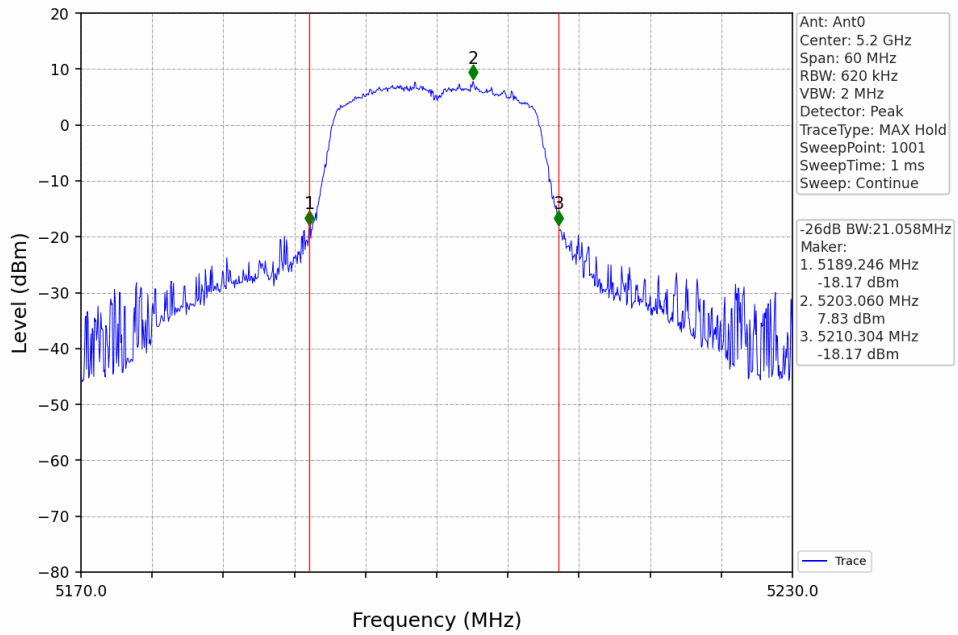
802.11ac(VHT20)_LCH_5180MHz_Ant0_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant0_NTNV



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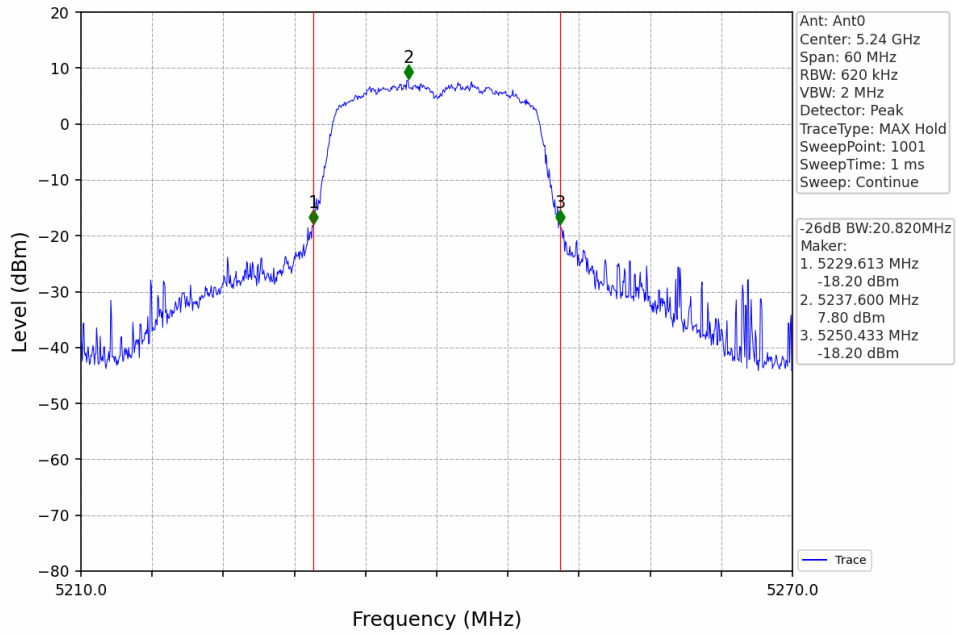
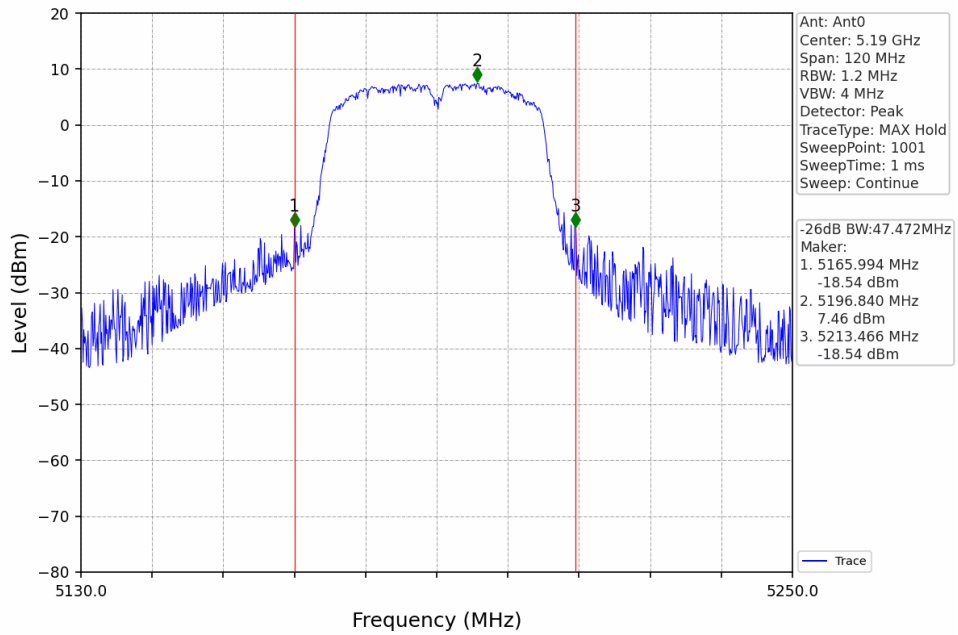
802.11ac(VHT20)_HCH_5240MHz_Ant0_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant0_NTNV



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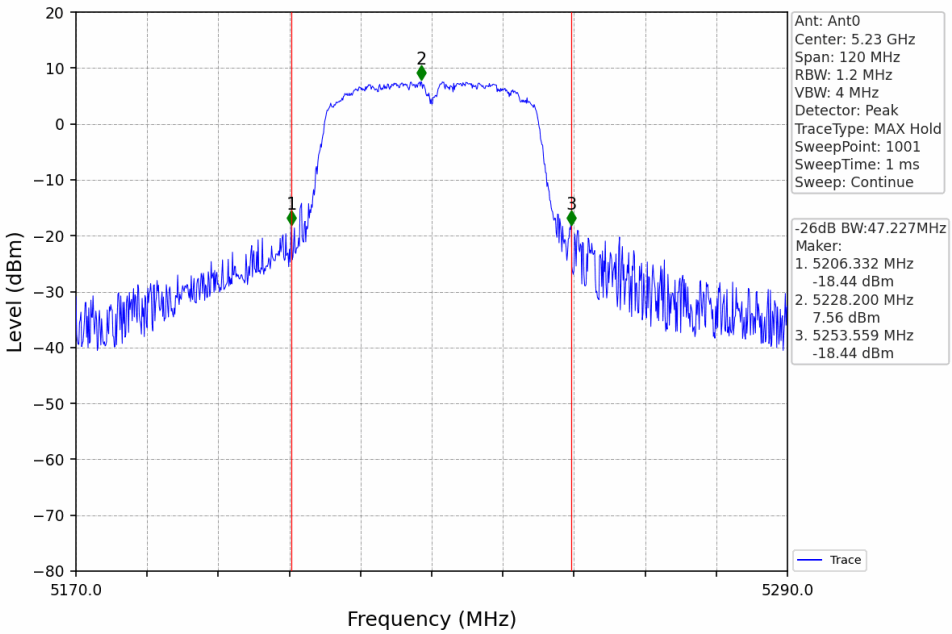
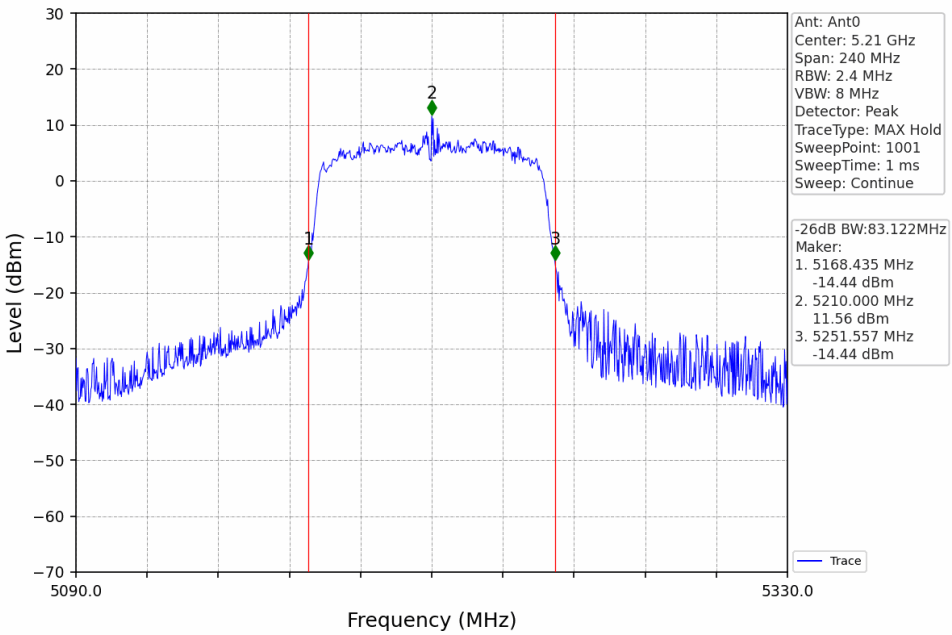
802.11ac(VHT40)_HCH_5230MHz_Ant0_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant0_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
			ANT0	ANT1	MIMO	Limit	
802.11a	SISO	5180	10.79	10.68	/	<=23.98	Pass
		5200	10.96	10.79	/	<=23.98	Pass
		5240	11.03	11.03	/	<=23.98	Pass
		5745	9.78	9.62	/	<=30	Pass
		5785	9.57	9.75	/	<=30	Pass
		5825	9.74	9.66	/	<=30	Pass
802.11n (HT20)	MIMO	5180	11.11	10.65	13.90	<=23.97	Pass
		5200	10.67	11.12	13.91	<=23.97	Pass
		5240	11.05	10.80	13.94	<=23.97	Pass
		5745	9.65	9.66	12.67	<=27.99	Pass
		5785	9.83	9.83	12.84	<=27.99	Pass
		5825	9.78	9.79	12.80	<=27.99	Pass
802.11n (HT40)	MIMO	5190	10.10	10.21	13.17	<=23.97	Pass
		5230	10.33	10.18	13.27	<=23.97	Pass
		5755	9.08	9.13	12.12	<=27.99	Pass
		5795	9.19	9.05	12.13	<=27.99	Pass
802.11ac (VHT20)	MIMO	5180	10.94	10.67	13.82	<=23.97	Pass
		5200	10.44	10.28	13.37	<=23.97	Pass
		5240	10.67	10.70	13.70	<=23.97	Pass
		5745	9.71	9.56	12.65	<=27.99	Pass
		5785	9.54	9.55	12.56	<=27.99	Pass
		5825	9.68	9.62	12.66	<=27.99	Pass
802.11ac (VHT40)	MIMO	5190	10.04	10.13	13.10	<=23.97	Pass
		5230	10.02	10.07	13.06	<=23.97	Pass
		5755	8.95	8.81	11.89	<=27.99	Pass
		5795	8.94	9.03	12.00	<=27.99	Pass
802.11ac (VHT80)	MIMO	5210	10.33	10.51	13.43	<=23.97	Pass
		5775	9.30	9.45	12.39	<=27.99	Pass

Note1:
U-NII-1 Antenna Gain: Antenna0&1: 3dBi, U-NII-3 Antenna Gain: Antenna0&1: 5dBi.
Note2:
U-NII-1 Directional Gain=G_{Ant}+10log (N_{Ant}) dBi = 3+10log (2) dBi = 6.01dBi.
U-NII-3 Directional Gain=G_{Ant}+10log (N_{Ant}) dBi = 5+10log (2) dBi = 8.01dBi.

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4. Maximum Power Spectral Density

4.1 PSD: U-NII-1

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT0	ANT1	MIMO	Limit	
802.11a	SISO	5180	-0.11	0.41	/	<=11	Pass
		5200	-0.04	0.05	/	<=11	Pass
		5240	0.41	0.55	/	<=11	Pass
802.11n (HT20)	MIMO	5180	-0.93	-1.00	2.03	<=10.99	Pass
		5200	-0.47	-0.70	2.41	<=10.99	Pass
		5240	-1.10	-0.83	2.02	<=10.99	Pass
802.11n (HT40)	MIMO	5190	-4.54	-4.84	-1.70	<=10.99	Pass
		5230	-4.75	-4.76	-1.75	<=10.99	Pass
802.11ac (VHT20)	MIMO	5180	-0.93	-1.61	1.71	<=10.99	Pass
		5200	0.07	-0.44	2.82	<=10.99	Pass
		5240	-1.26	-1.50	1.62	<=10.99	Pass
802.11ac (VHT40)	MIMO	5190	-4.46	-5.18	-1.83	<=10.99	Pass
		5230	-4.65	-5.09	-1.86	<=10.99	Pass
802.11ac (VHT80)	MIMO	5210	-8.38	-9.15	-5.75	<=10.99	Pass

Note1:
U-NII-1 Antenna Gain: Antenna0&1: 3dBi, U-NII-3 Antenna Gain: Antenna0&1: 5dBi.
Note2:
U-NII-1 Directional Gain=G_{Ant}+10log (N_{Ant}) dBi = 3+10log (2) dBi = 6.01dBi.
U-NII-3 Directional Gain=G_{Ant}+10log (N_{Ant}) dBi = 5+10log (2) dBi = 8.01dBi.

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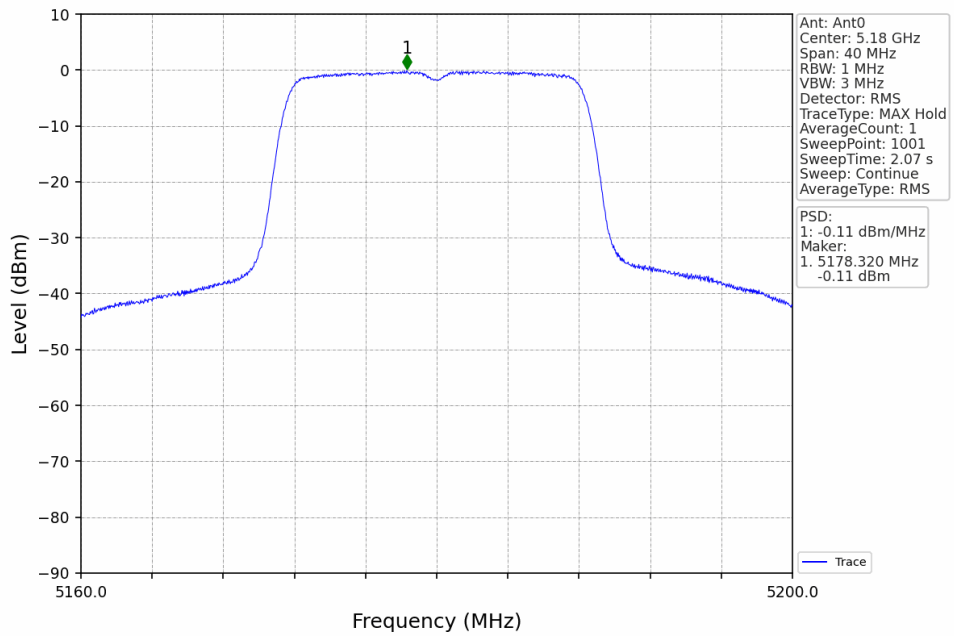
4.1.2 Test Graph

802.11a_LCH_5180MHz_Ant0_NTNV



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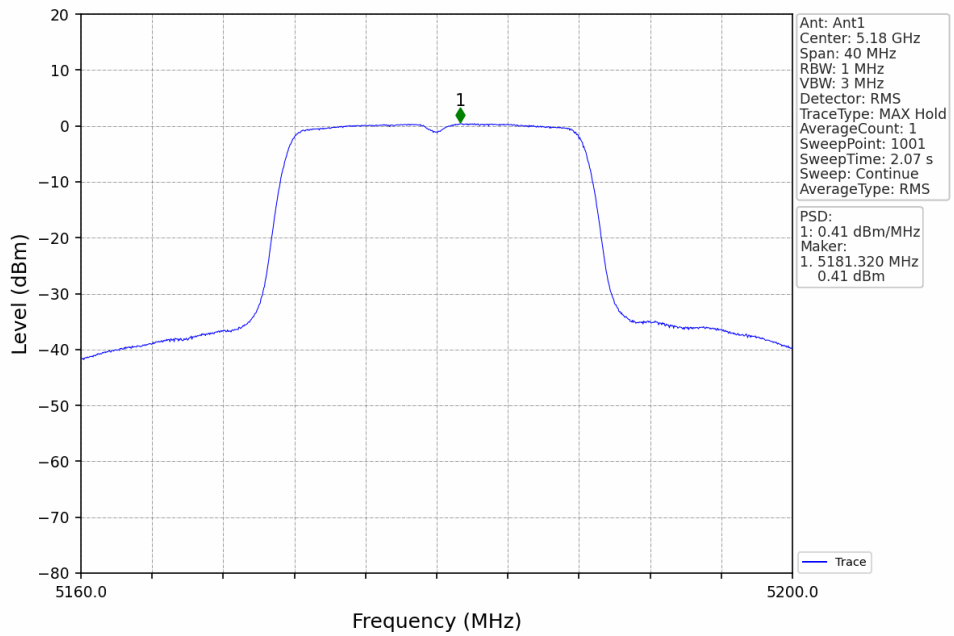

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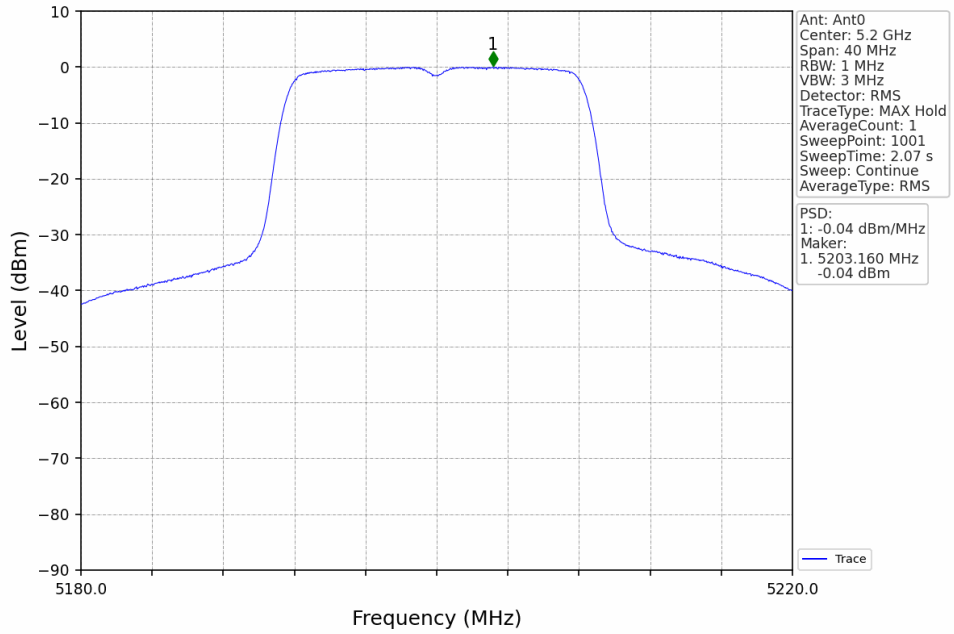

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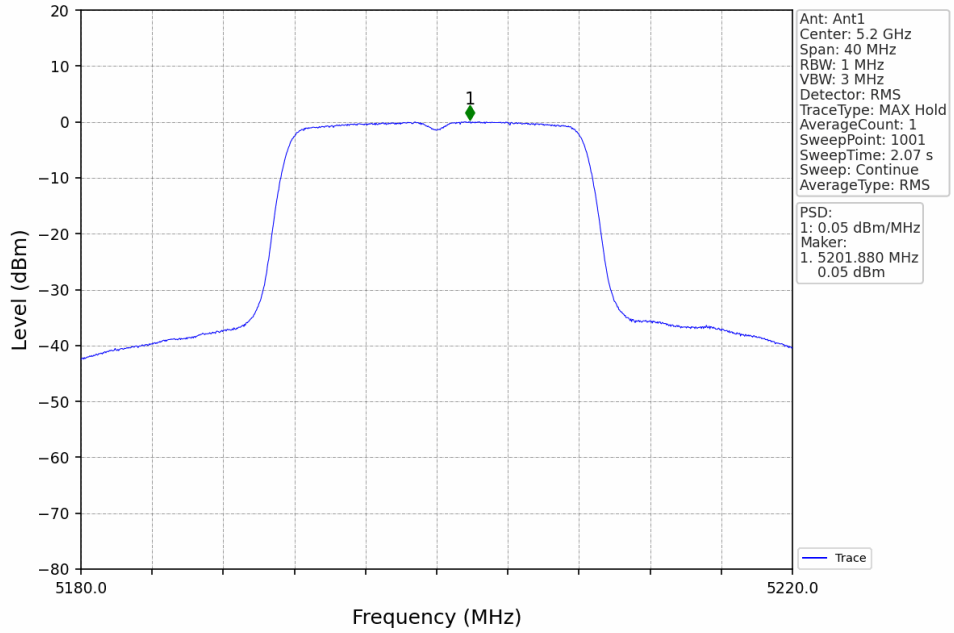

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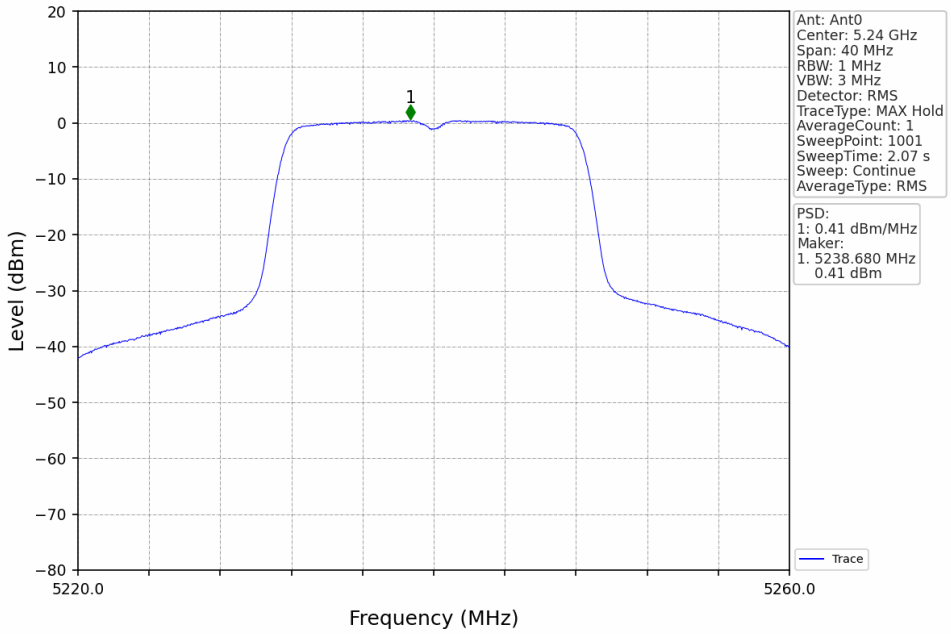
802.11a_HCH_5240MHz_Ant0_NTNV



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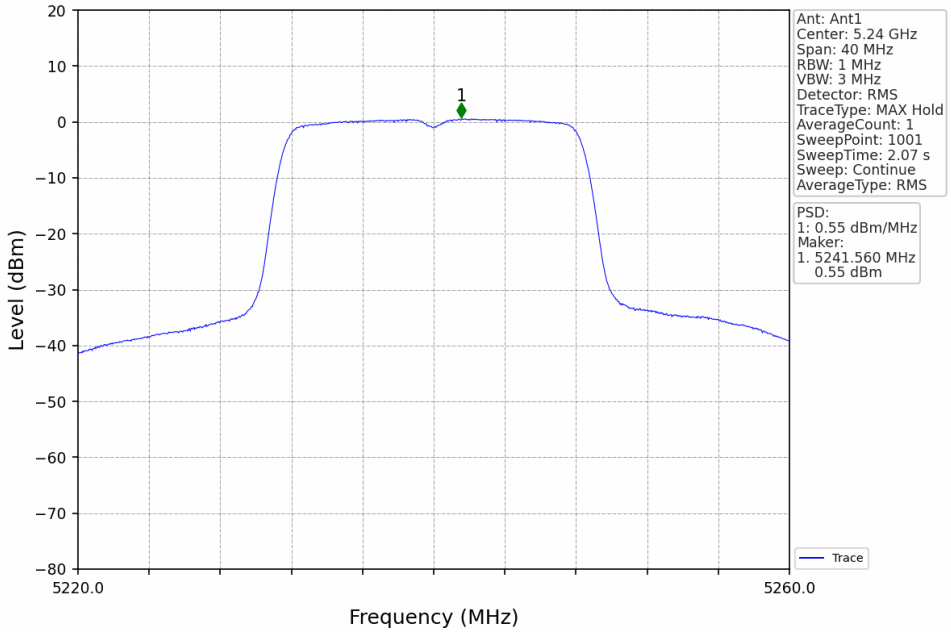

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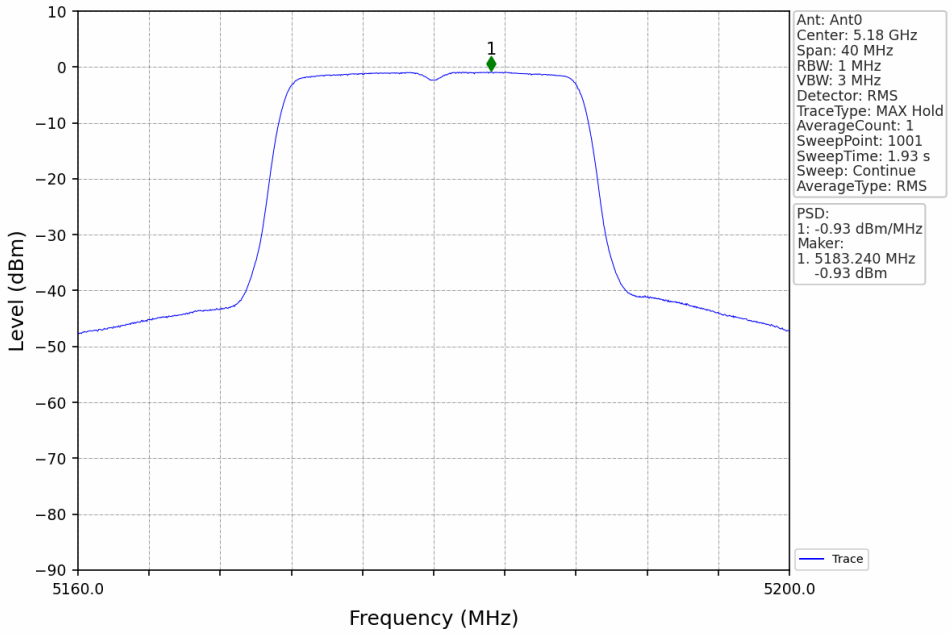

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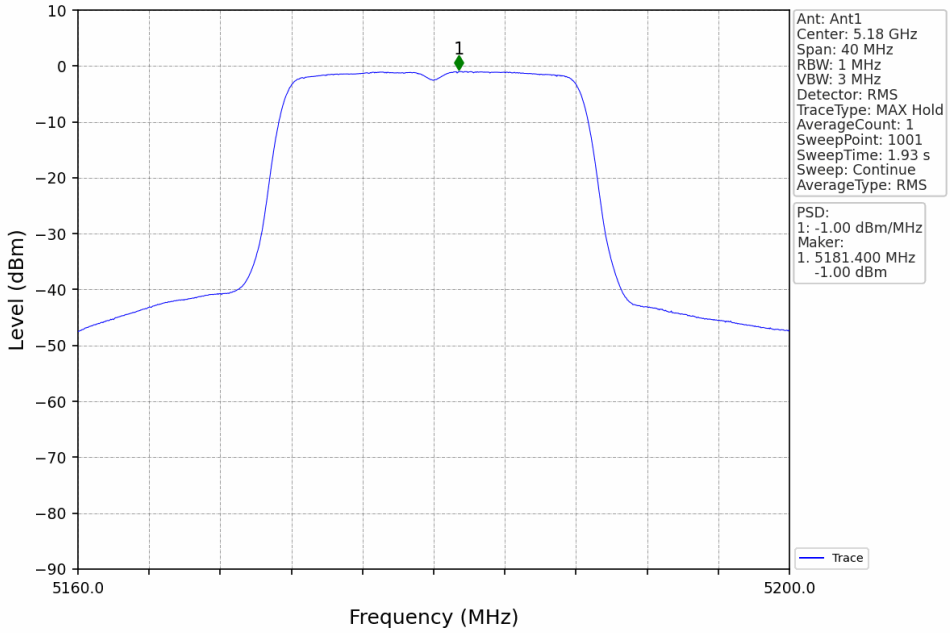

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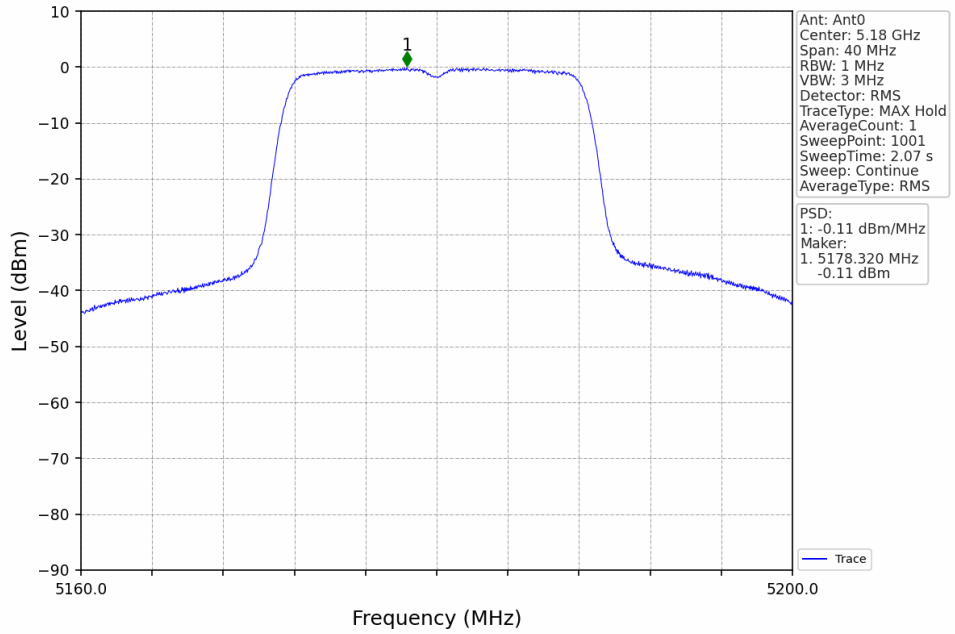
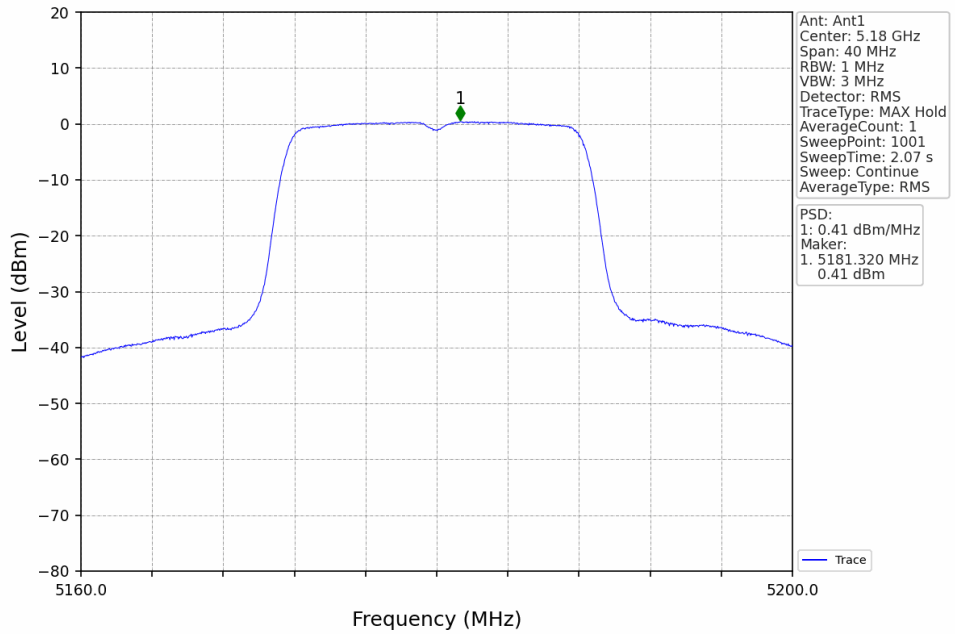


802.11a_LCH_5180MHz_Ant1_NTNV



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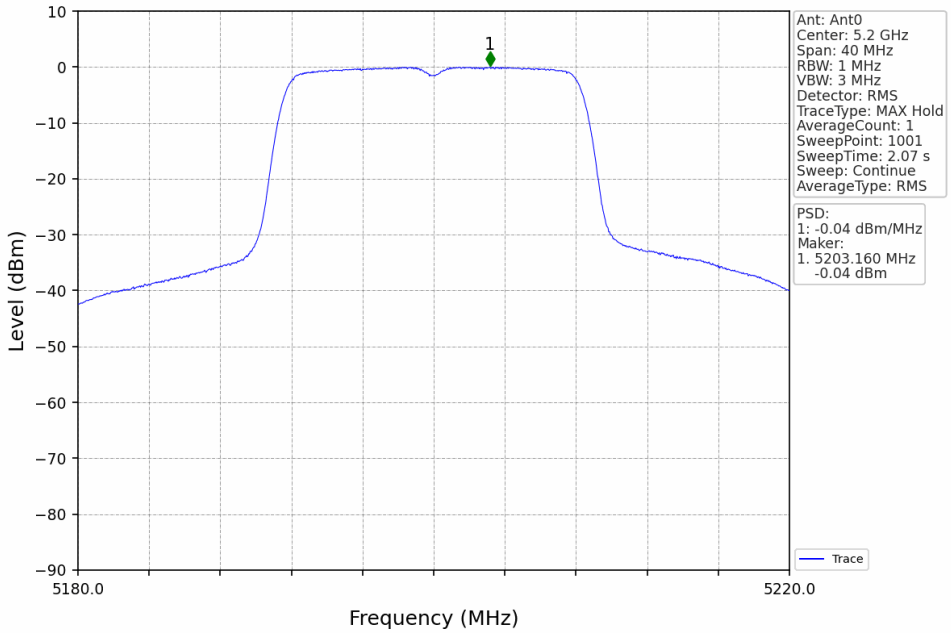
802.11a_MCH_5200MHz_Ant0_NTNV



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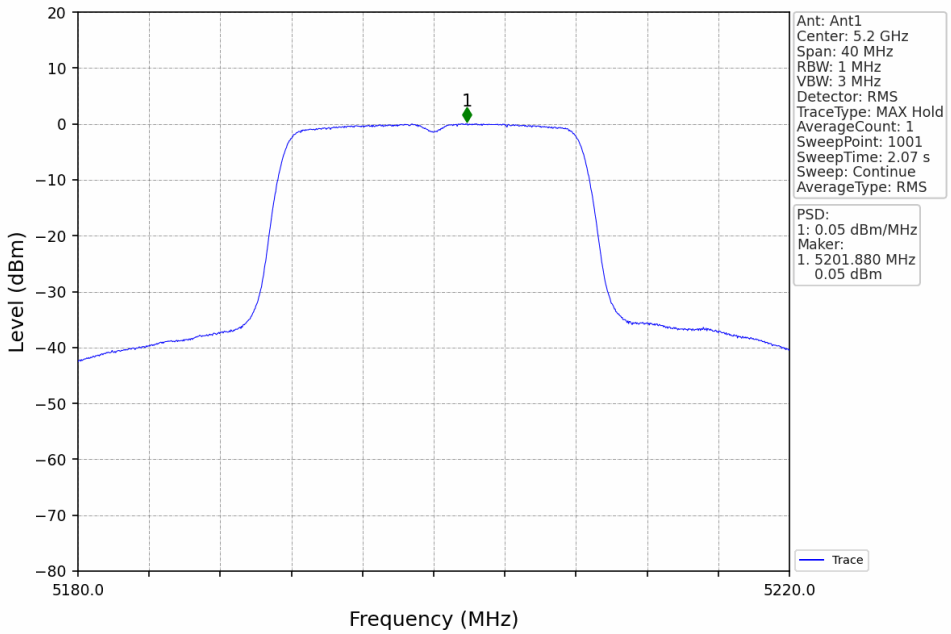

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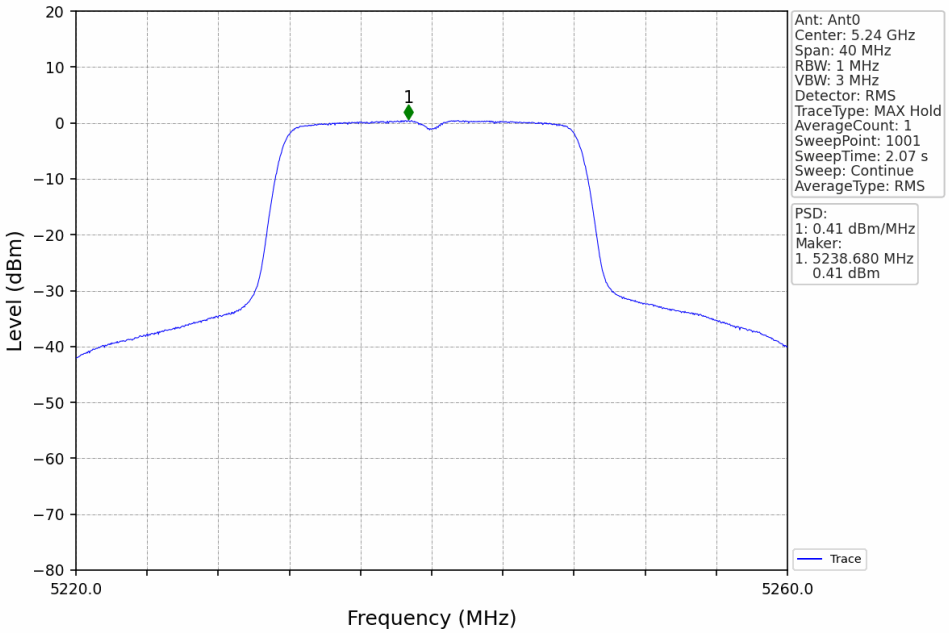
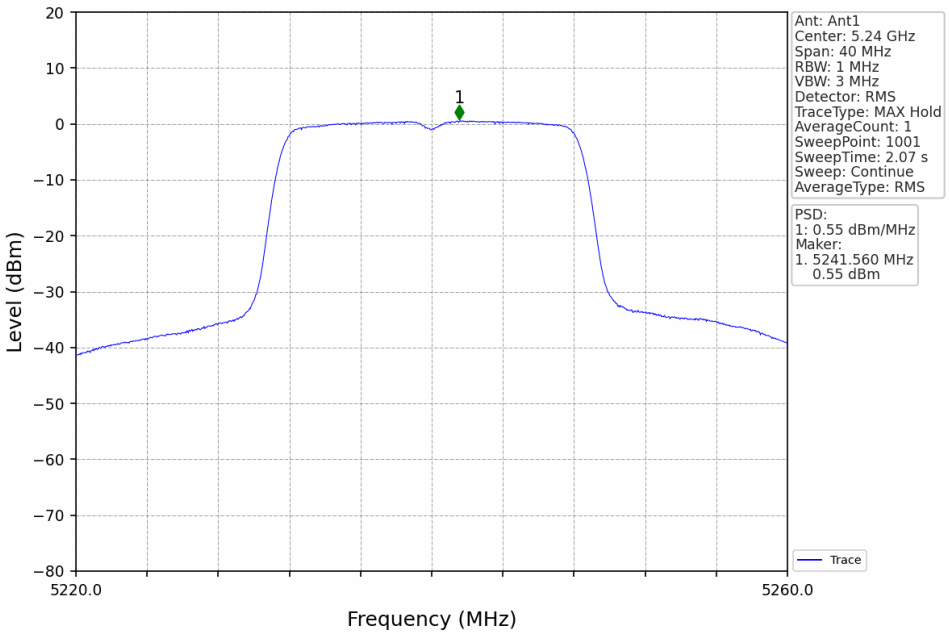
802.11a_HCH_5240MHz_Ant0_NTNV



802.11a_HCH_5240MHz_Ant1_NTNV



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