

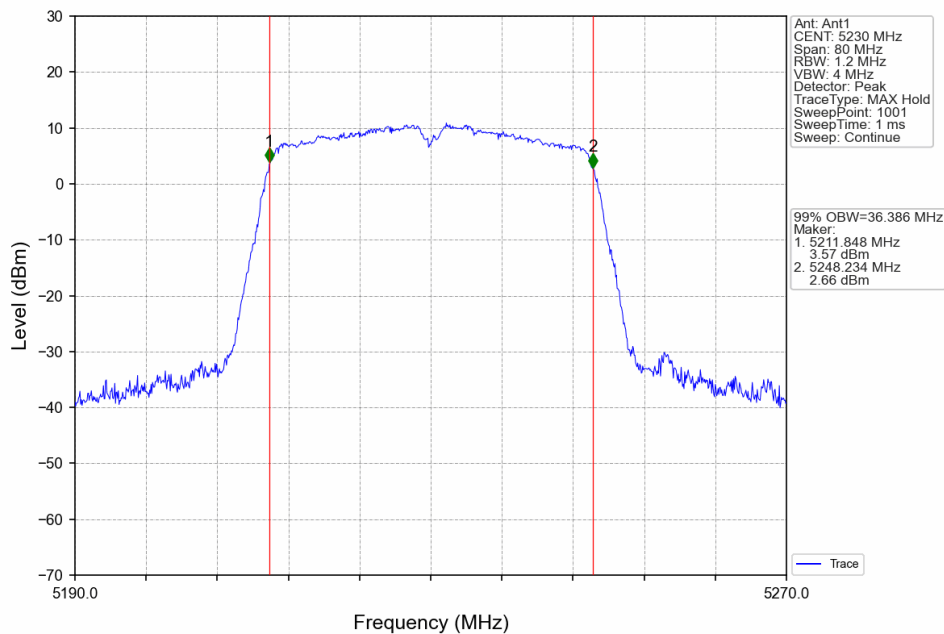
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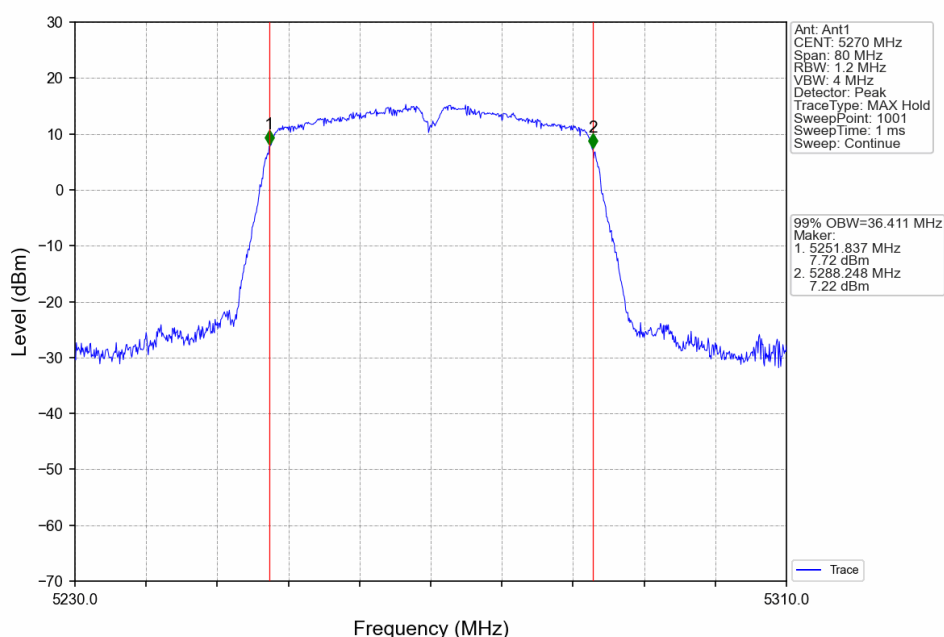
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



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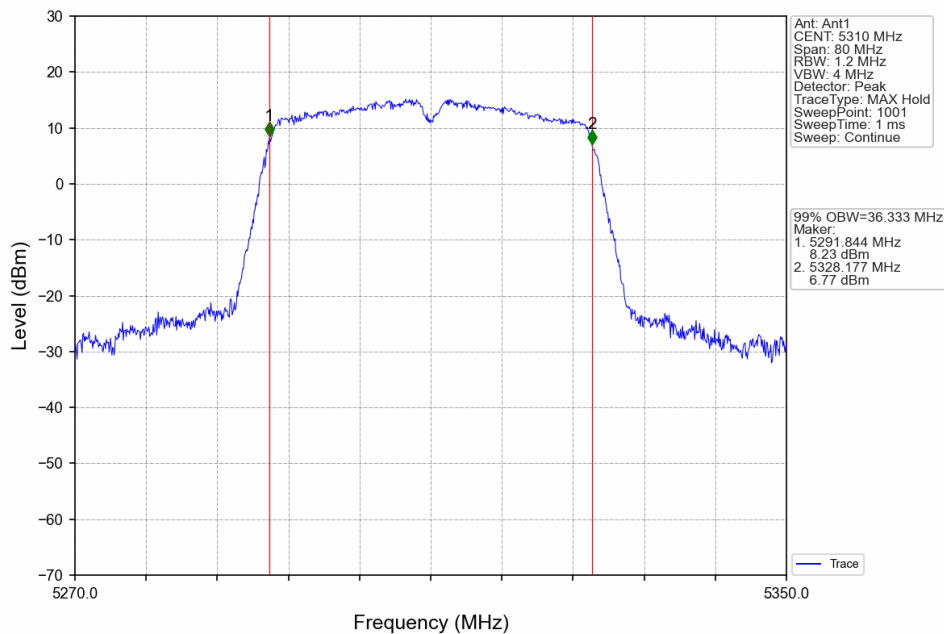
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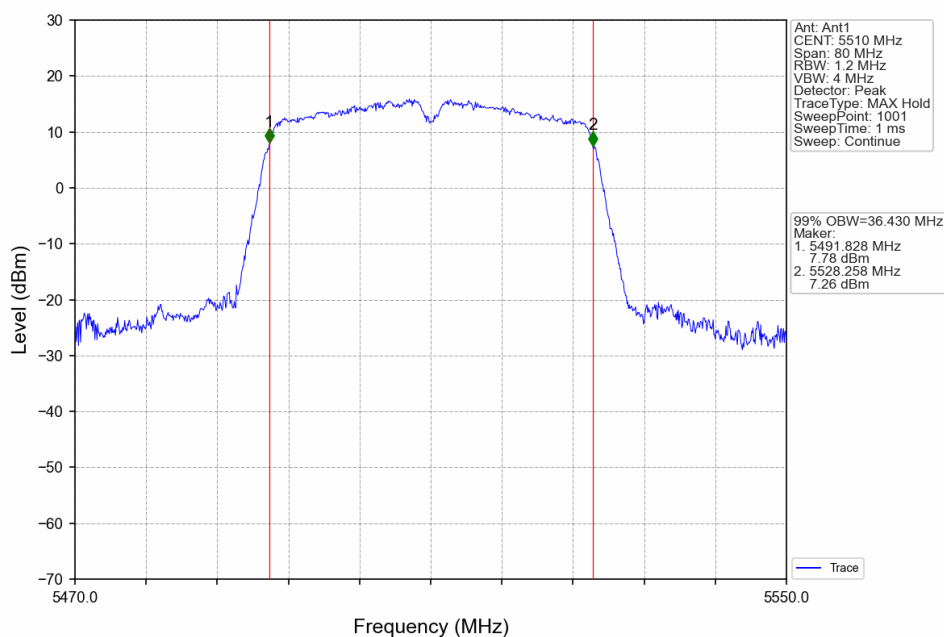
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



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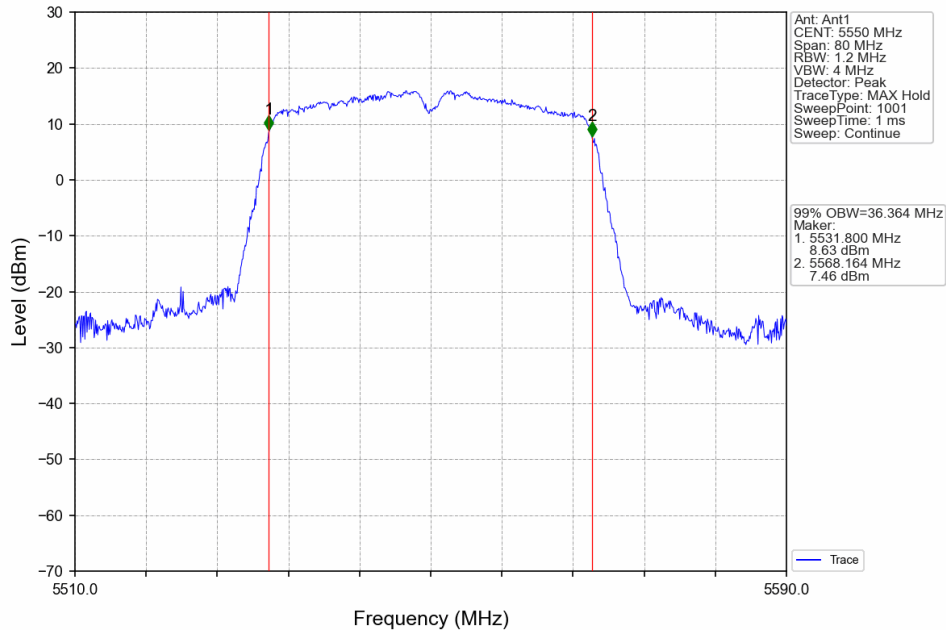
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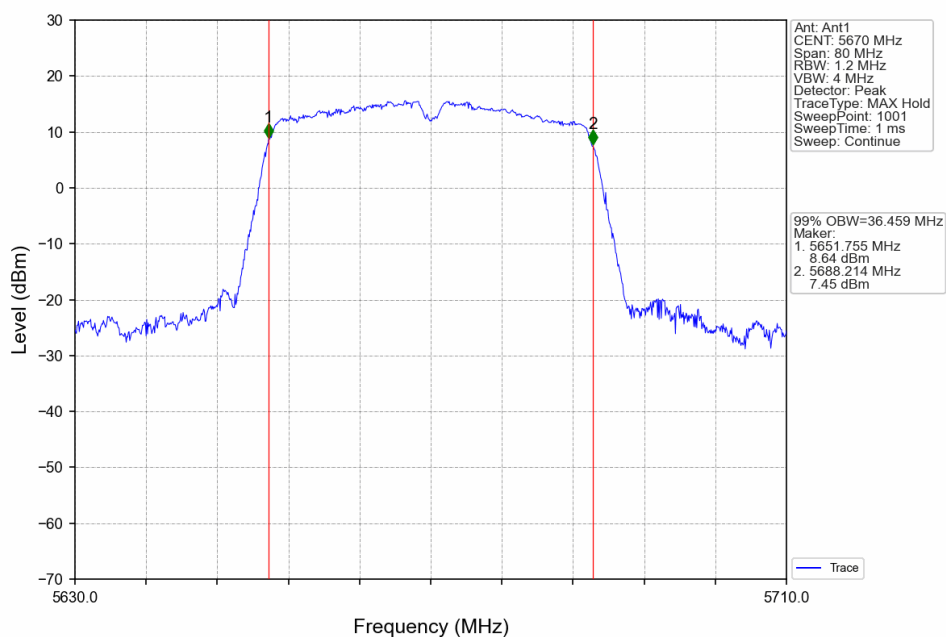
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802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



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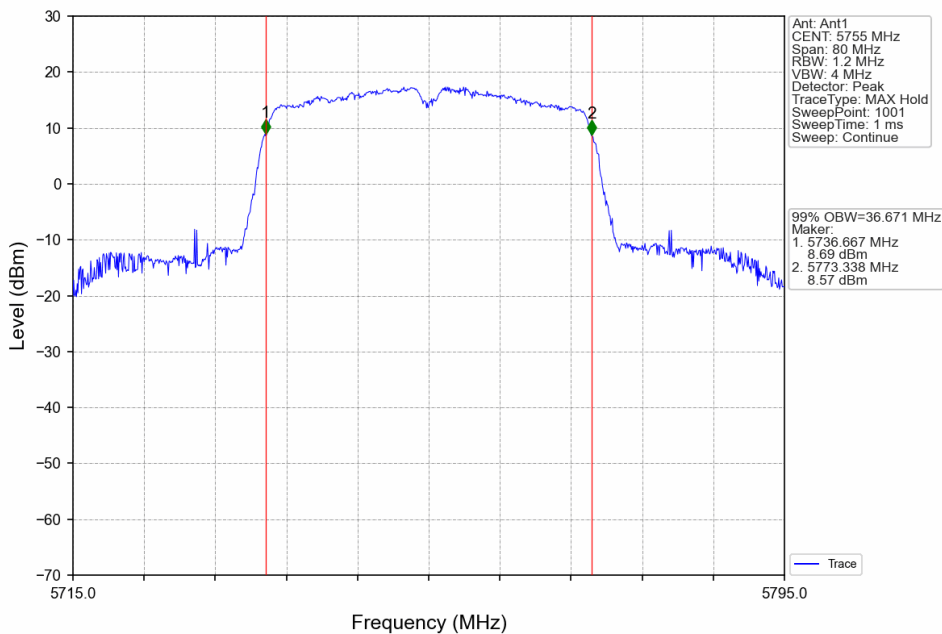
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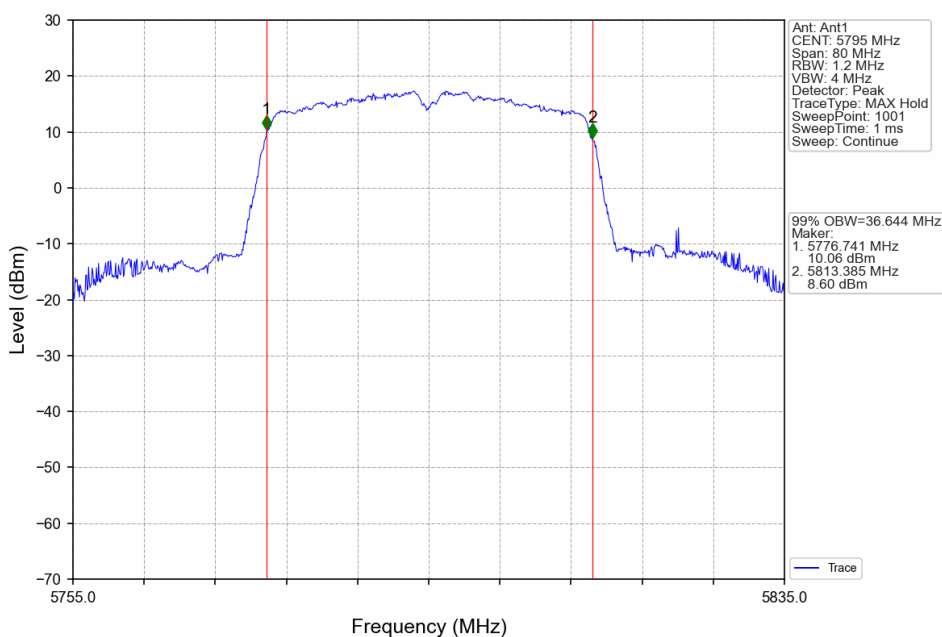
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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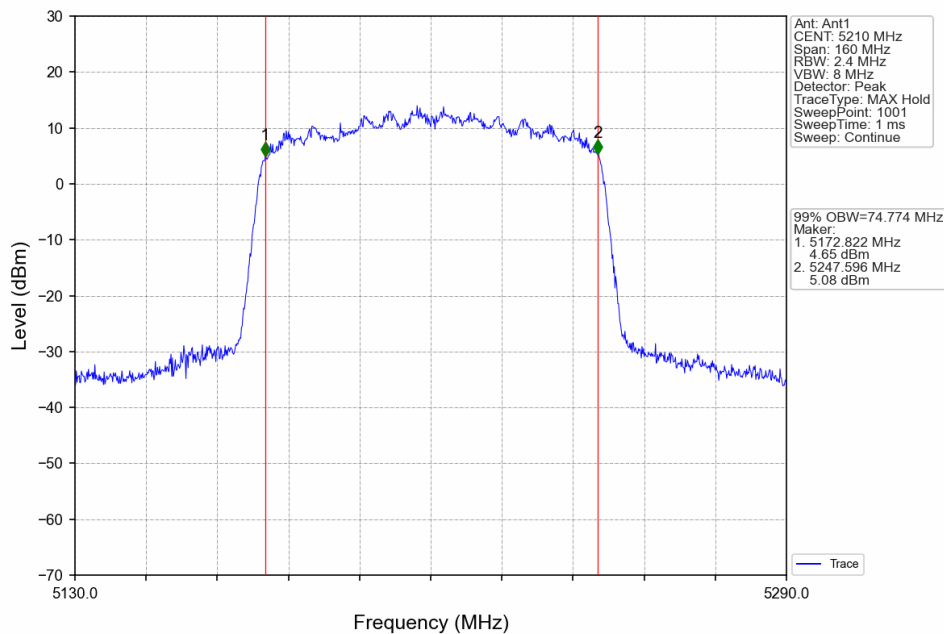
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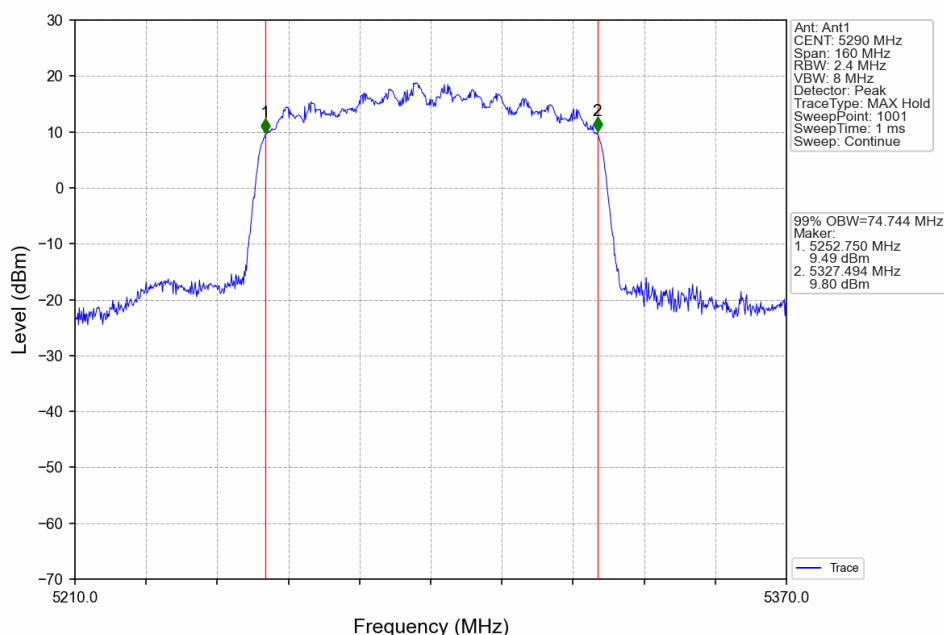
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



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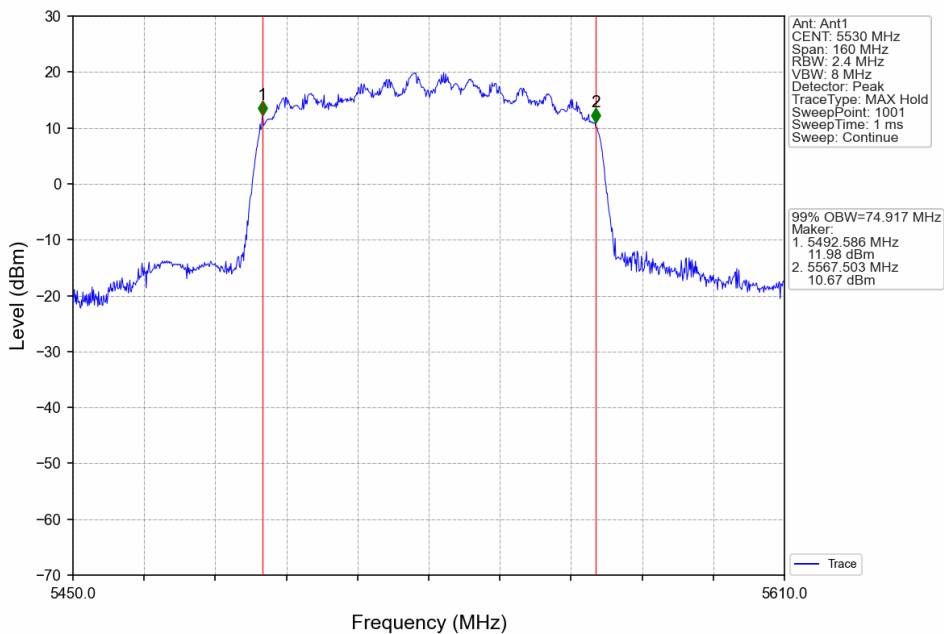
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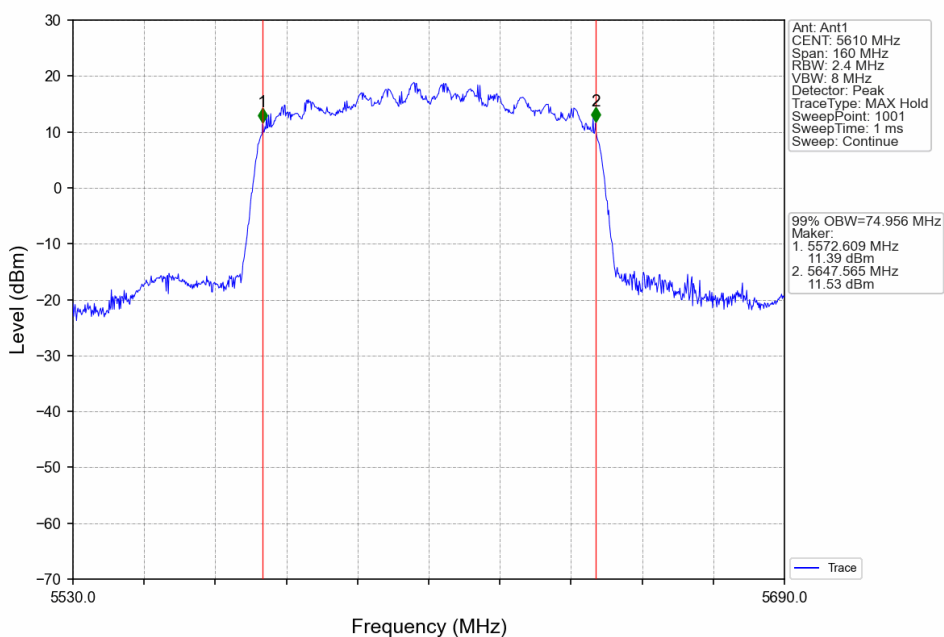
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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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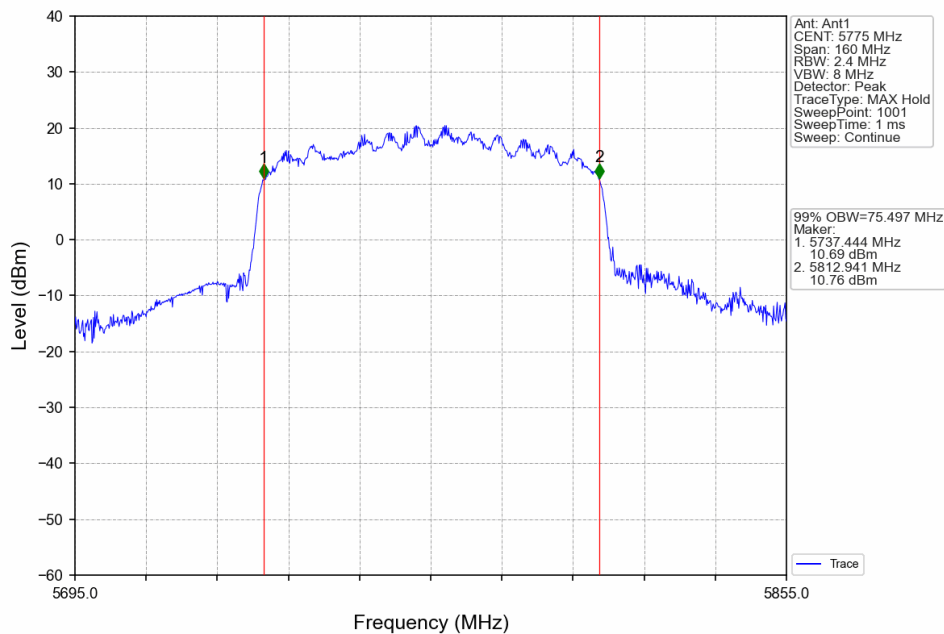
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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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	MIMO	5745	1	15.145	≥ 0.5	Pass
		5785	1	15.150	≥ 0.5	Pass
		5825	1	15.162	≥ 0.5	Pass
802.11n (HT20)	MIMO	5745	1	16.331	≥ 0.5	Pass
		5785	1	16.561	≥ 0.5	Pass
		5825	1	16.540	≥ 0.5	Pass
802.11n (HT40)	MIMO	5755	1	35.167	≥ 0.5	Pass
		5795	1	35.154	≥ 0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	16.539	≥ 0.5	Pass
		5785	1	16.305	≥ 0.5	Pass
		5825	1	16.546	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	35.153	≥ 0.5	Pass
		5795	1	35.159	≥ 0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	75.096	≥ 0.5	Pass

Note: For the tests were conducted in all transmitted mode (including ANT1, ANT2 and MIMO) and only the worst-case ANT1 is recorded in the test report.



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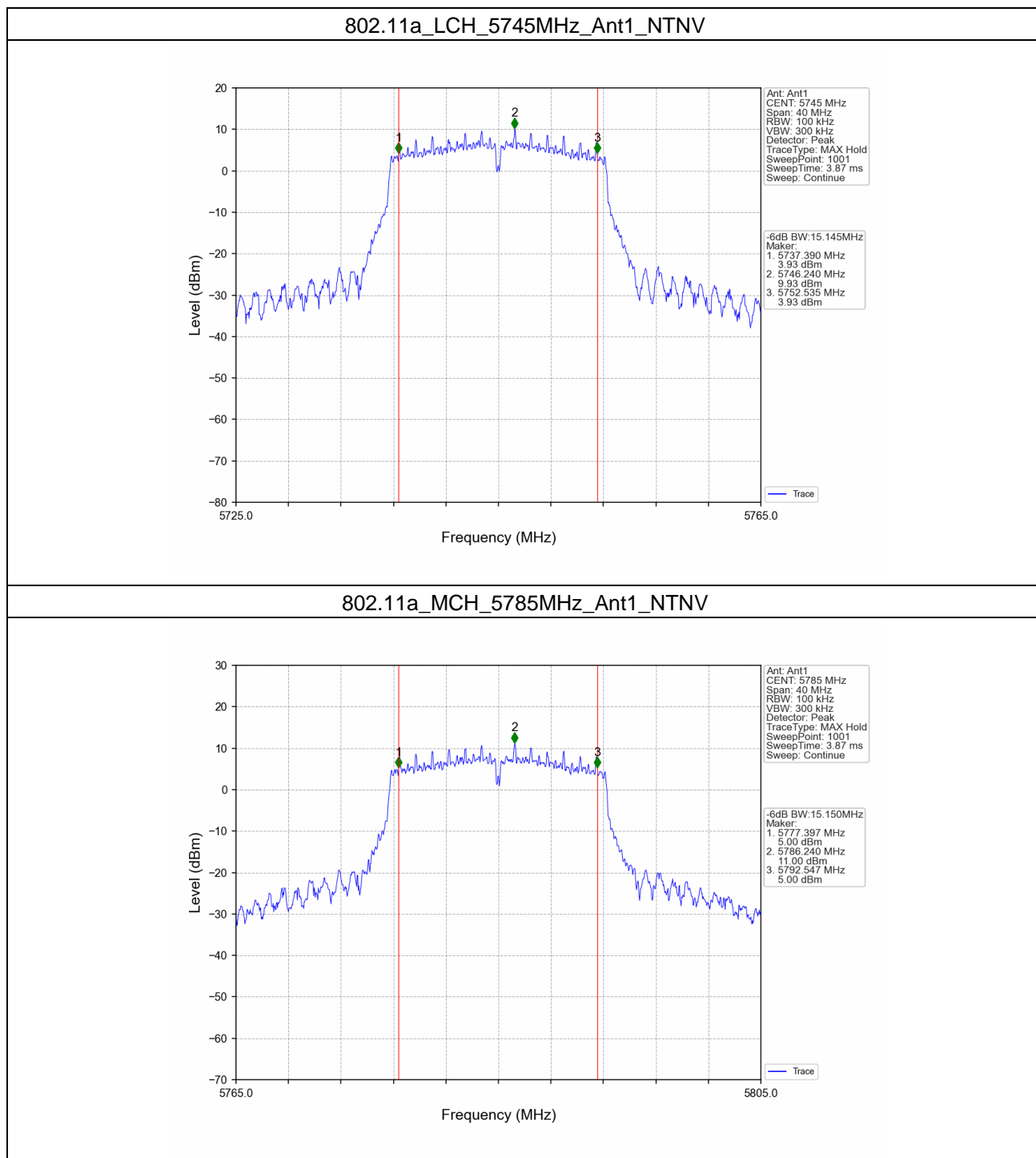
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2.2.2 Test Graph



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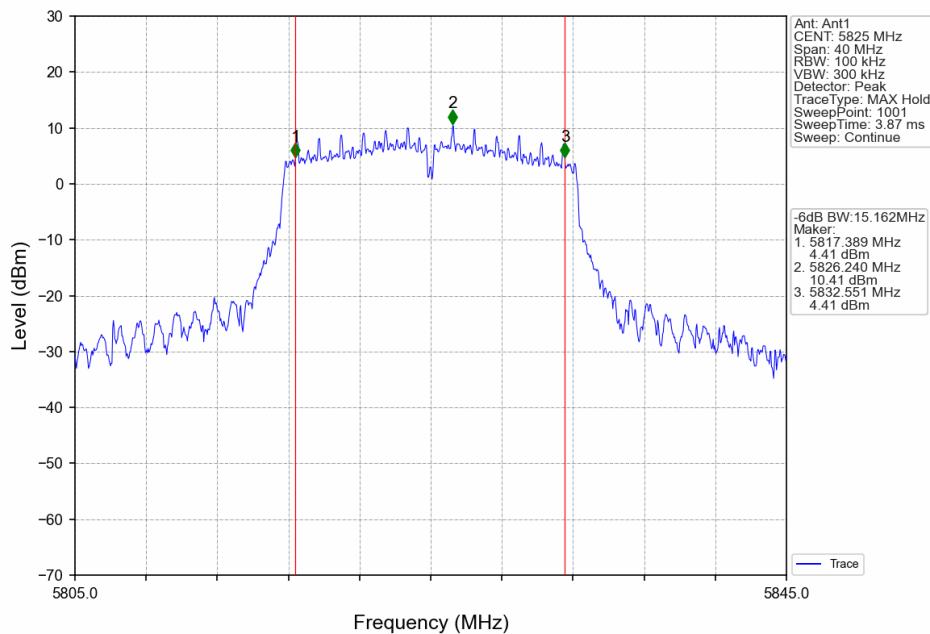
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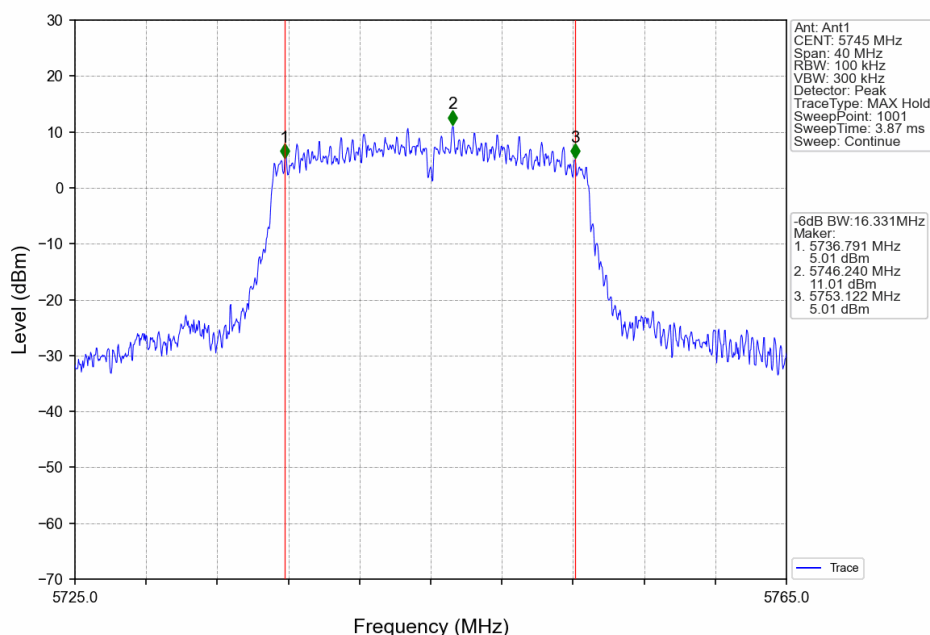
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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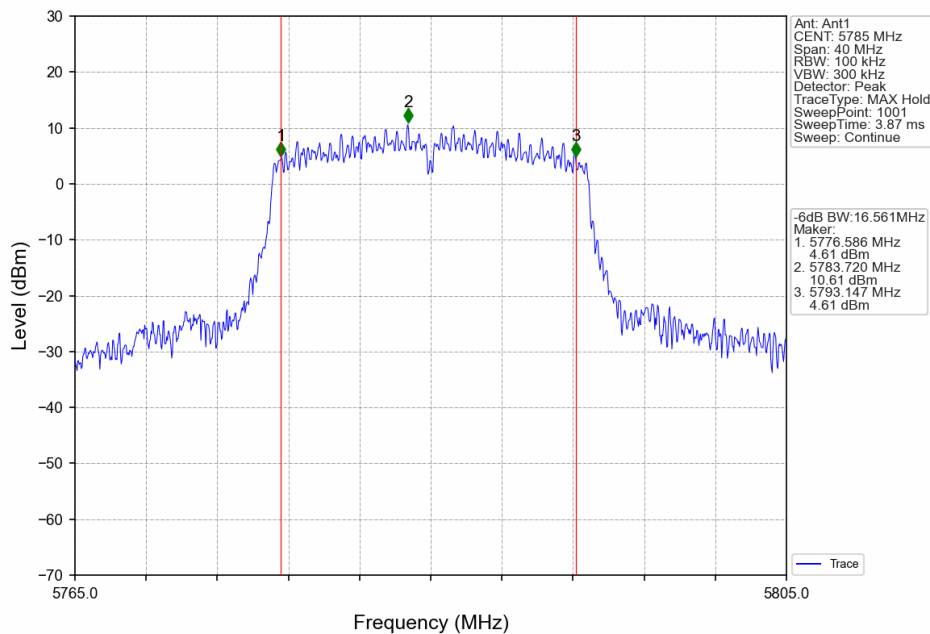
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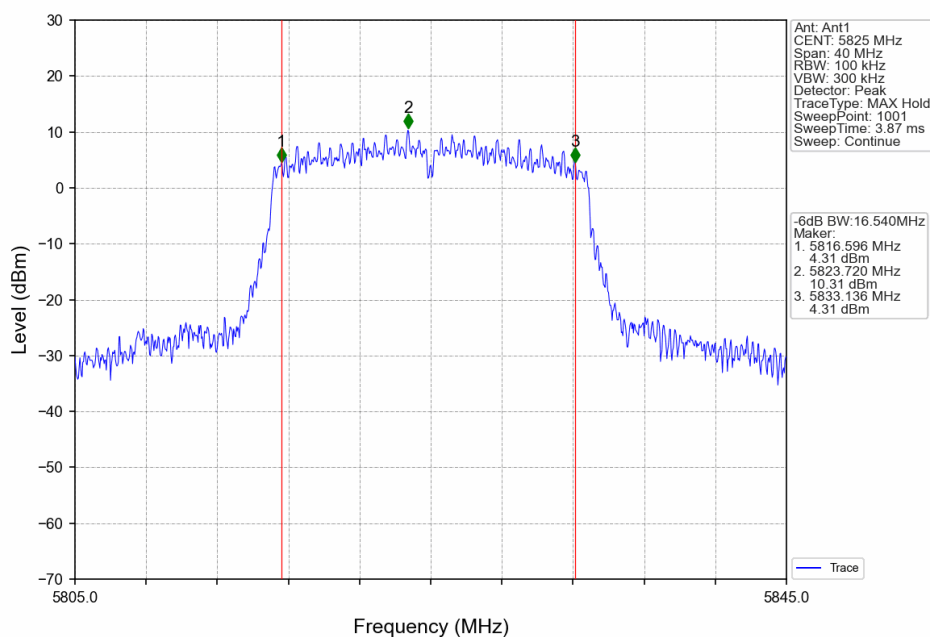
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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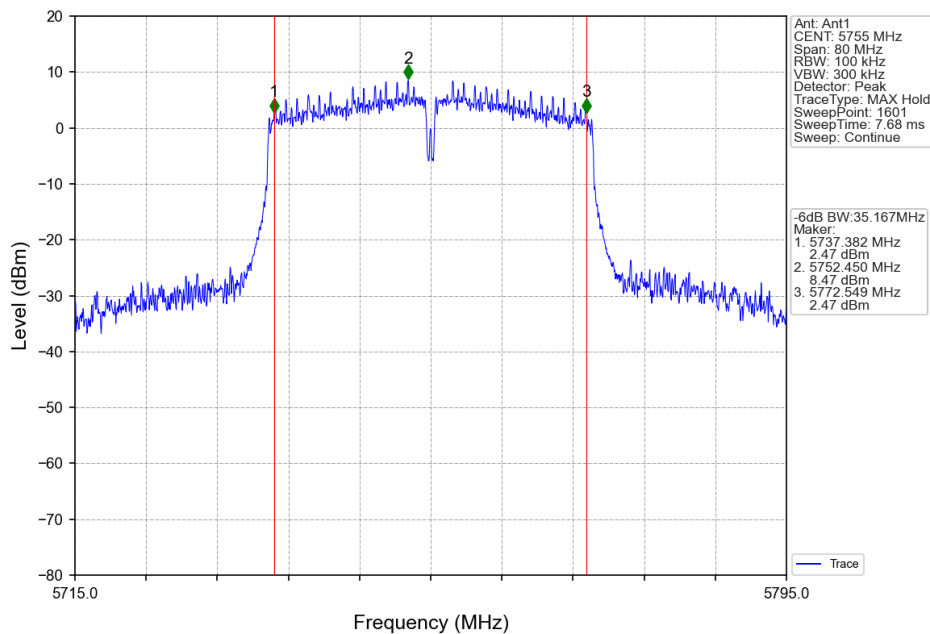
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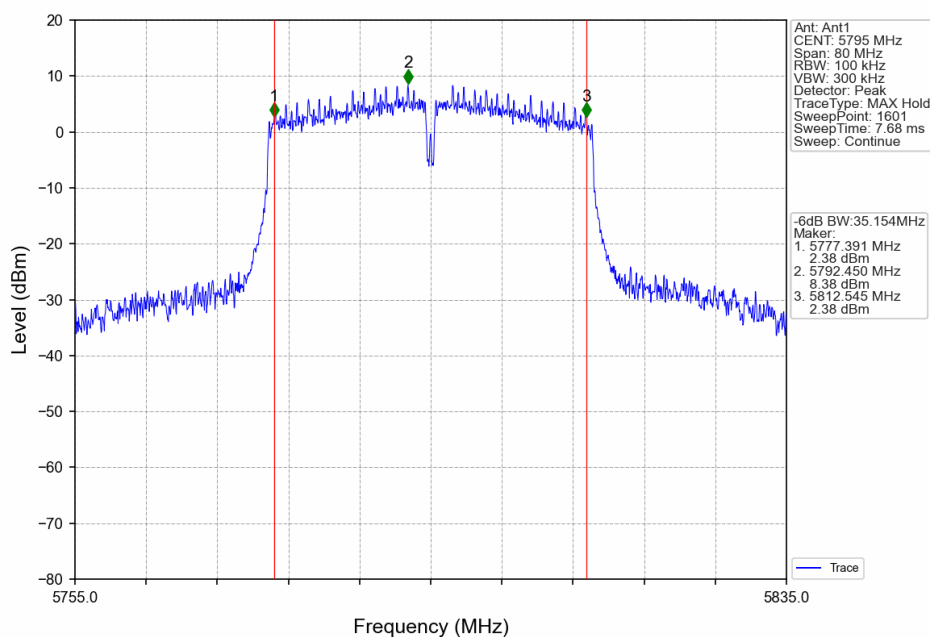
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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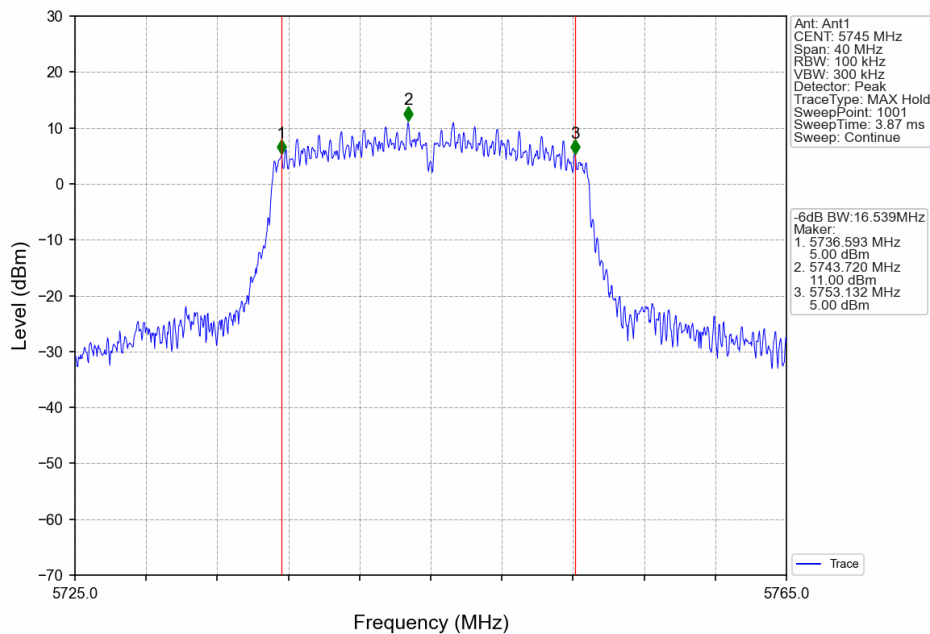
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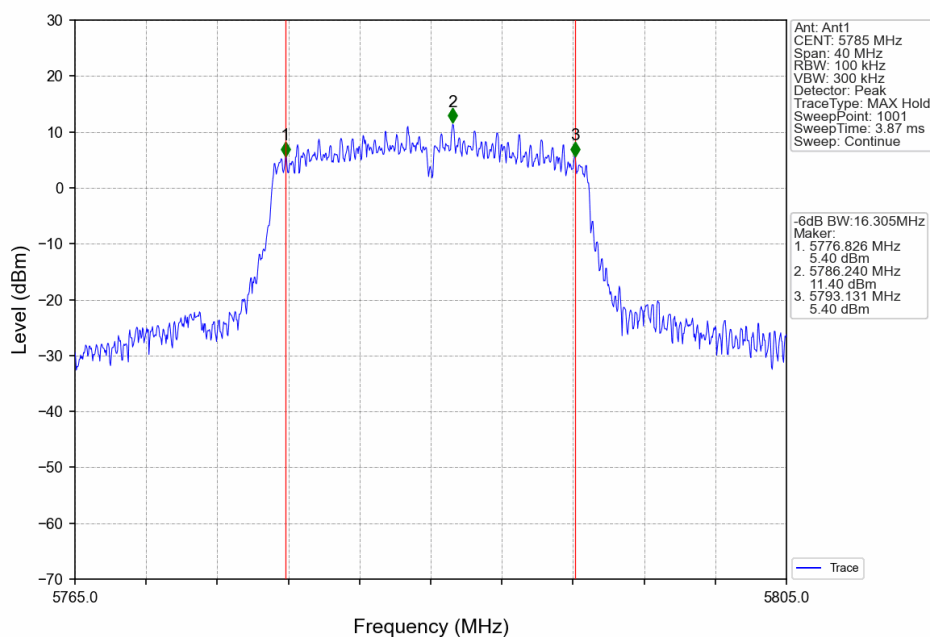
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



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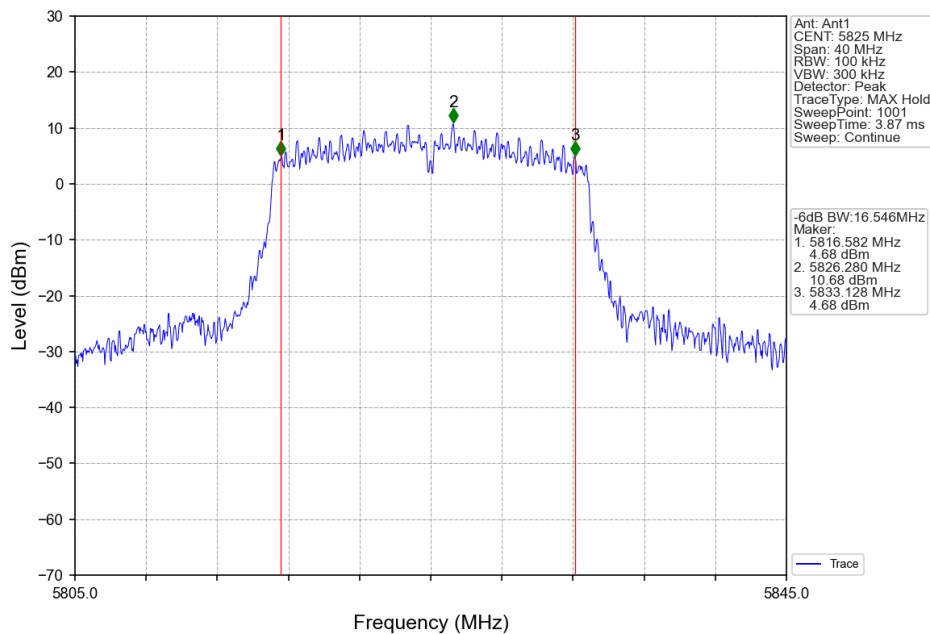
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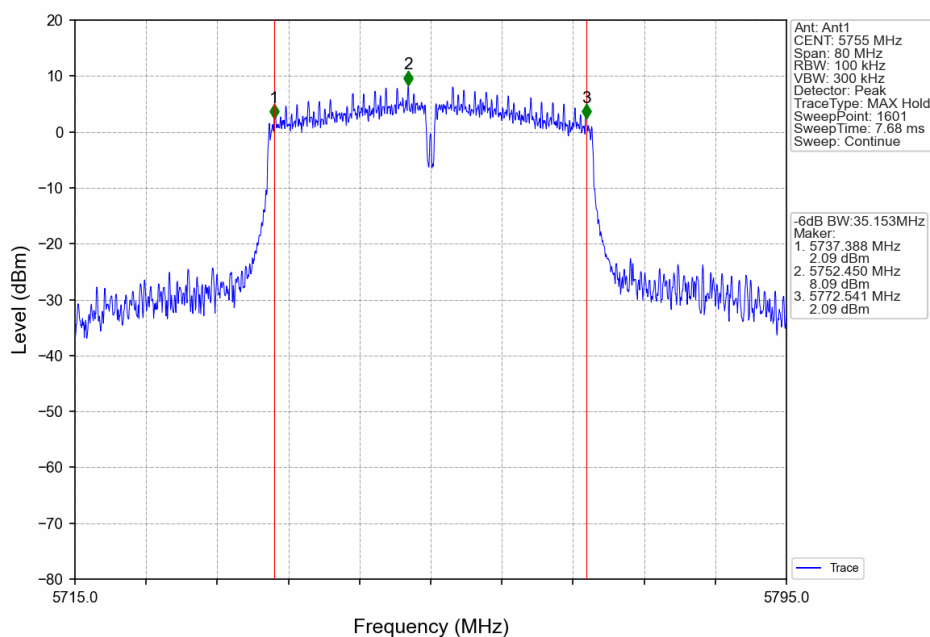
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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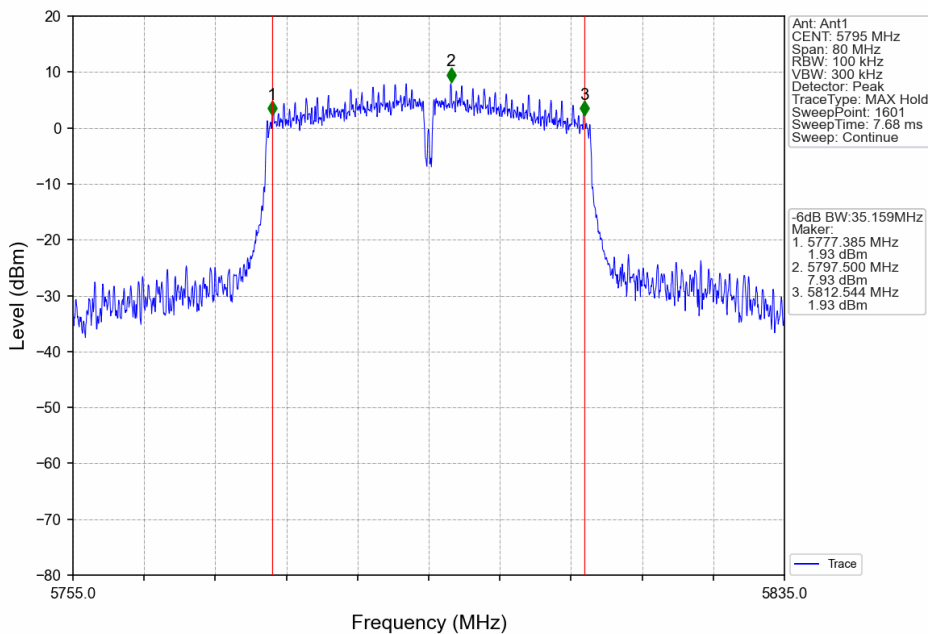
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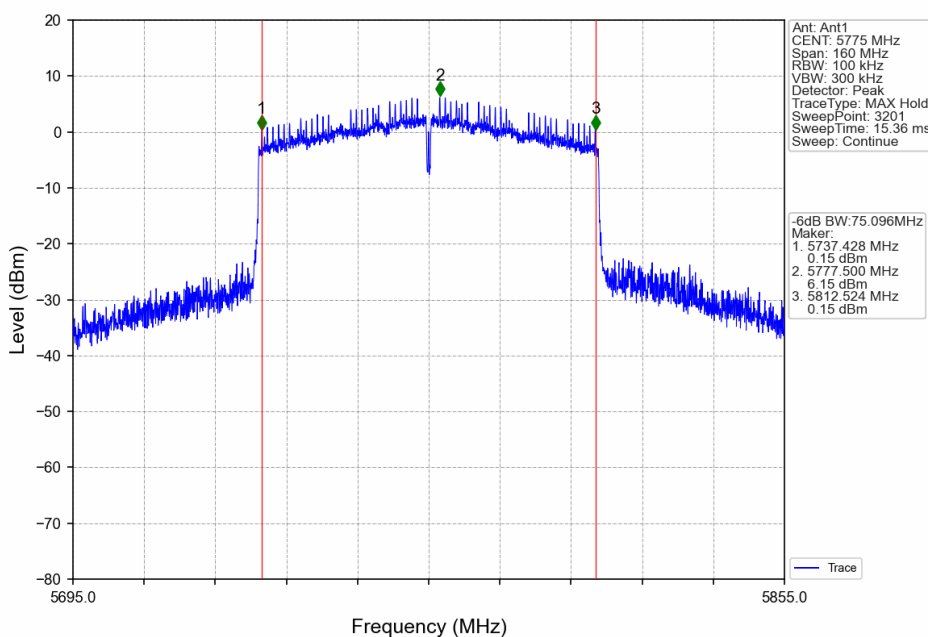
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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	
802.11a	MIMO	5180	1	19.475	Pass
		5200	1	19.491	Pass
		5240	1	19.373	Pass
		5260	1	19.539	Pass
		5300	1	19.517	Pass
		5320	1	19.430	Pass
		5500	1	19.521	Pass
		5580	1	19.507	Pass
		5700	1	19.426	Pass
802.11n (HT20)	MIMO	5180	1	19.904	Pass
		5200	1	19.892	Pass
		5240	1	20.097	Pass
		5260	1	20.026	Pass
		5300	1	20.007	Pass
		5320	1	19.943	Pass
		5500	1	19.864	Pass
		5580	1	19.987	Pass
		5700	1	19.975	Pass
802.11n (HT40)	MIMO	5190	1	39.302	Pass
		5230	1	39.411	Pass
		5270	1	39.774	Pass
		5310	1	39.369	Pass
		5510	1	39.650	Pass
		5550	1	39.586	Pass
		5670	1	39.633	Pass
802.11ac (VHT20)	MIMO	5180	1	19.919	Pass
		5200	1	19.942	Pass
		5240	1	20.050	Pass
		5260	1	19.989	Pass
		5300	1	19.845	Pass
		5320	1	19.924	Pass
		5500	1	19.956	Pass



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		5580	1	19.957	Pass
		5700	1	19.940	Pass
802.11ac (VHT40)	MIMO	5190	1	39.557	Pass
		5230	1	39.473	Pass
		5270	1	39.697	Pass
		5310	1	39.537	Pass
		5510	1	39.866	Pass
		5550	1	39.449	Pass
		5670	1	39.569	Pass
802.11ac (VHT80)	MIMO	5210	1	79.117	Pass
		5290	1	79.323	Pass
		5530	1	79.499	Pass
		5610	1	79.203	Pass

Note: For the tests were conducted in all transmitted mode (including ANT1, ANT2 and MIMO) and only the worst-case ANT1 is recorded in the test report.



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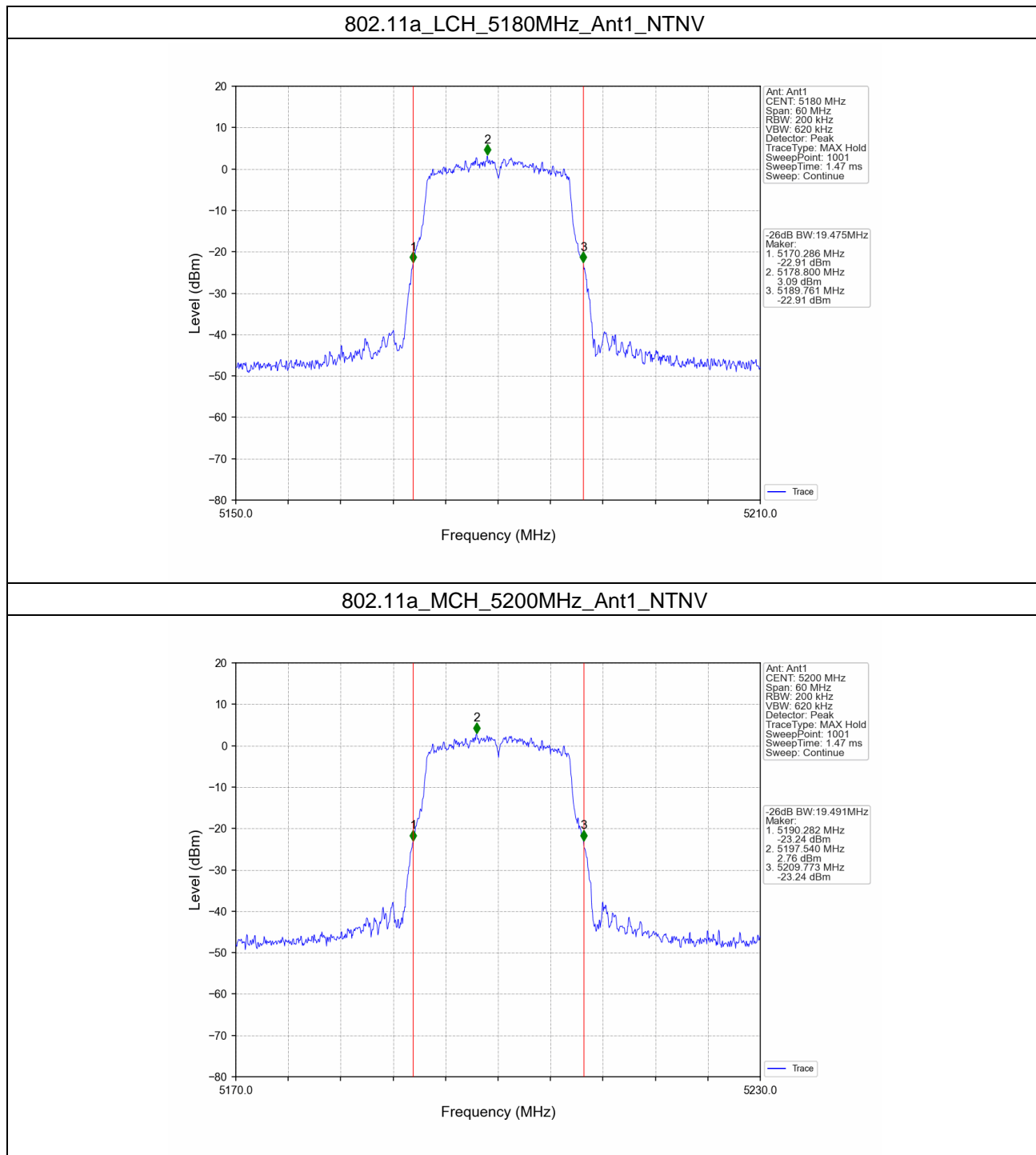
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2.3.2 Test Graph



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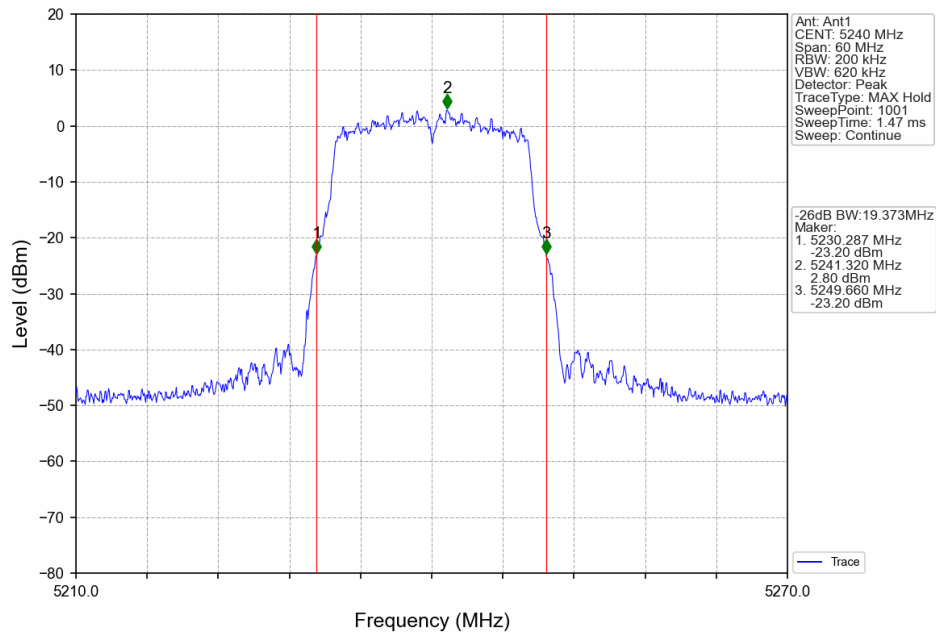
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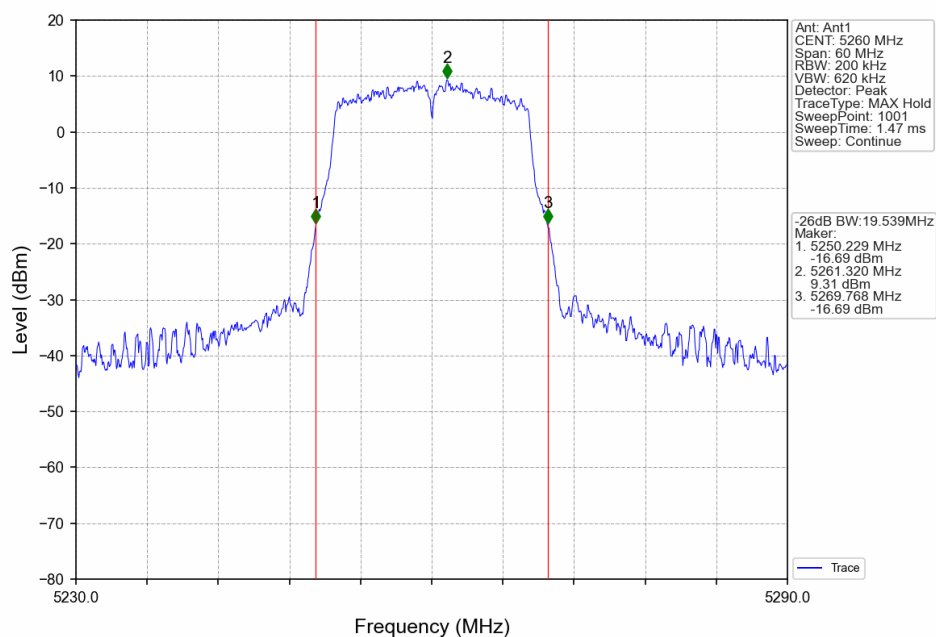
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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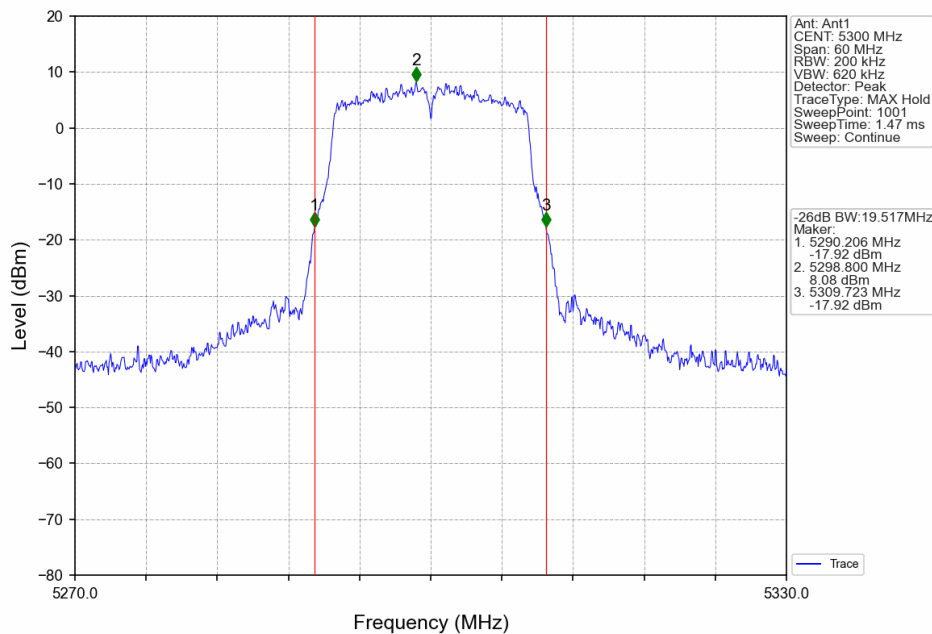
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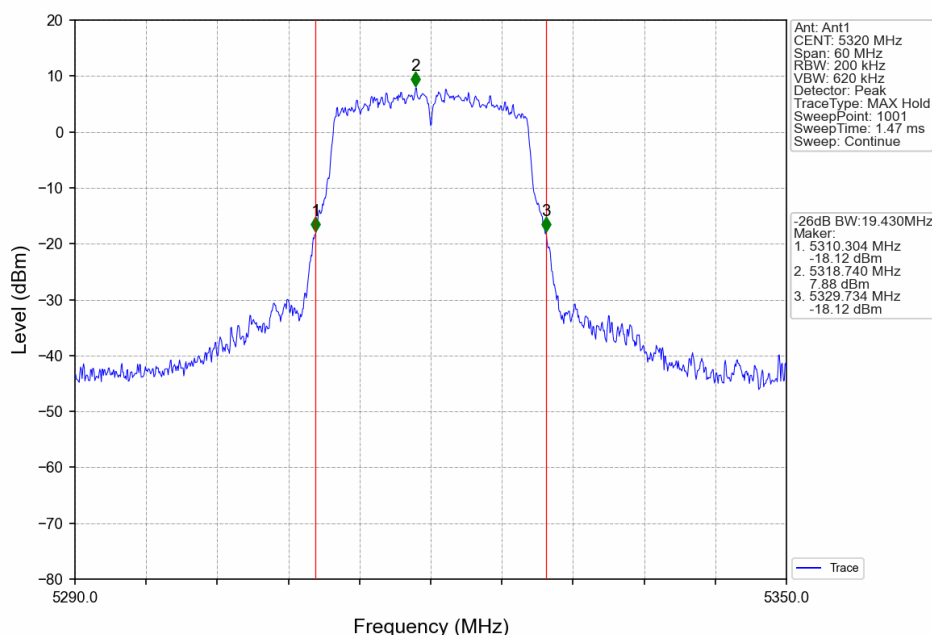
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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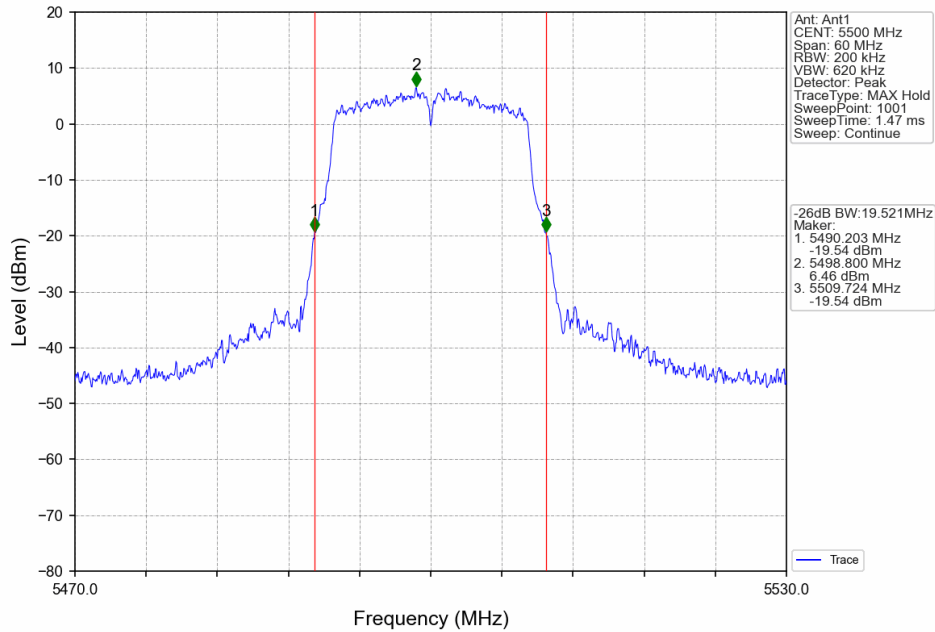
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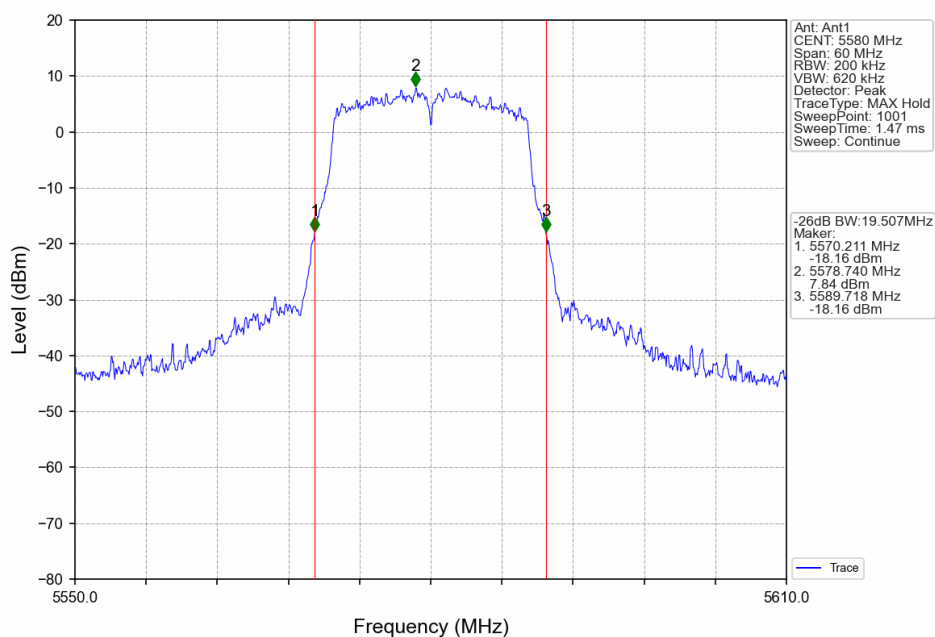
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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



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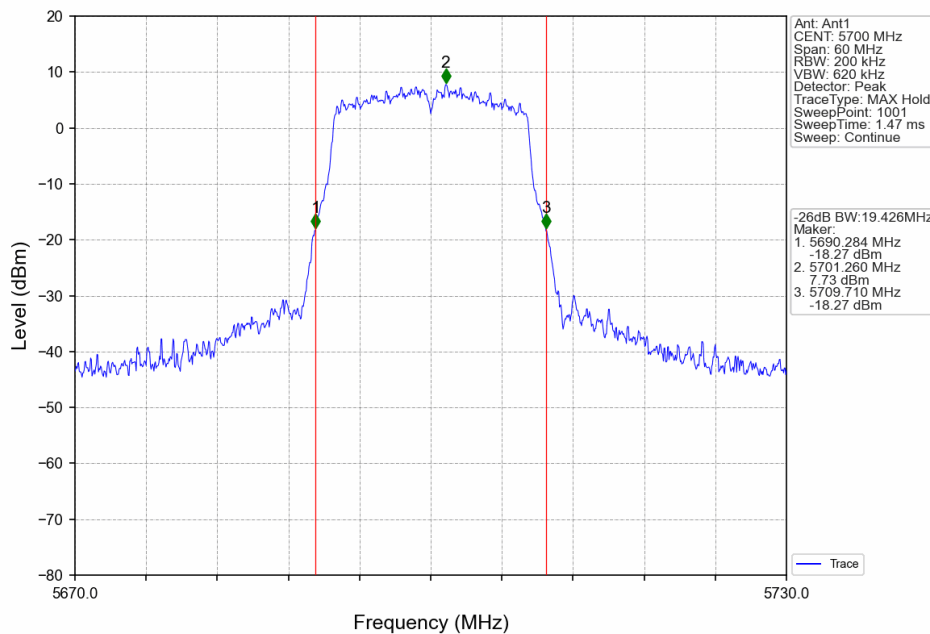
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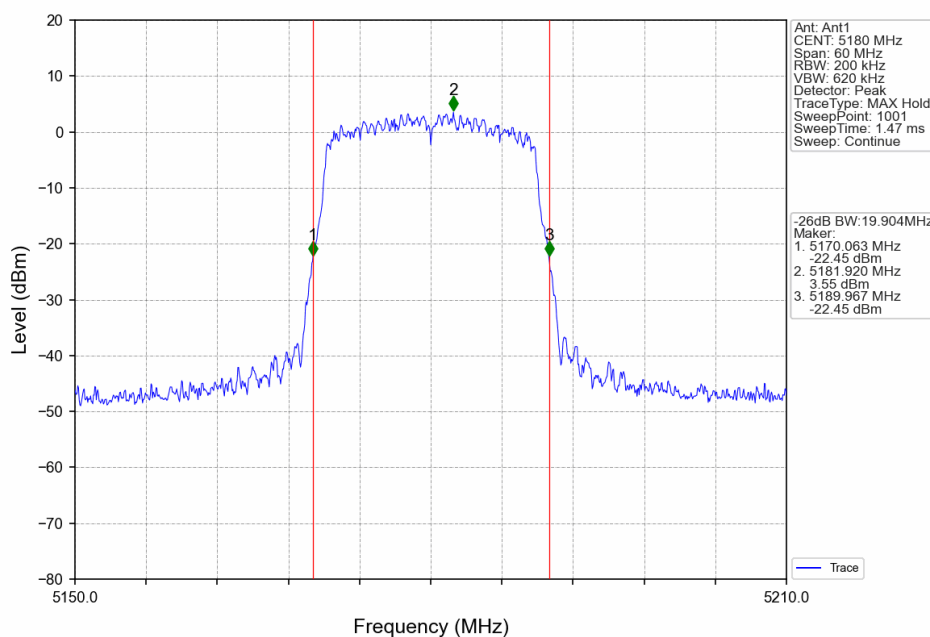
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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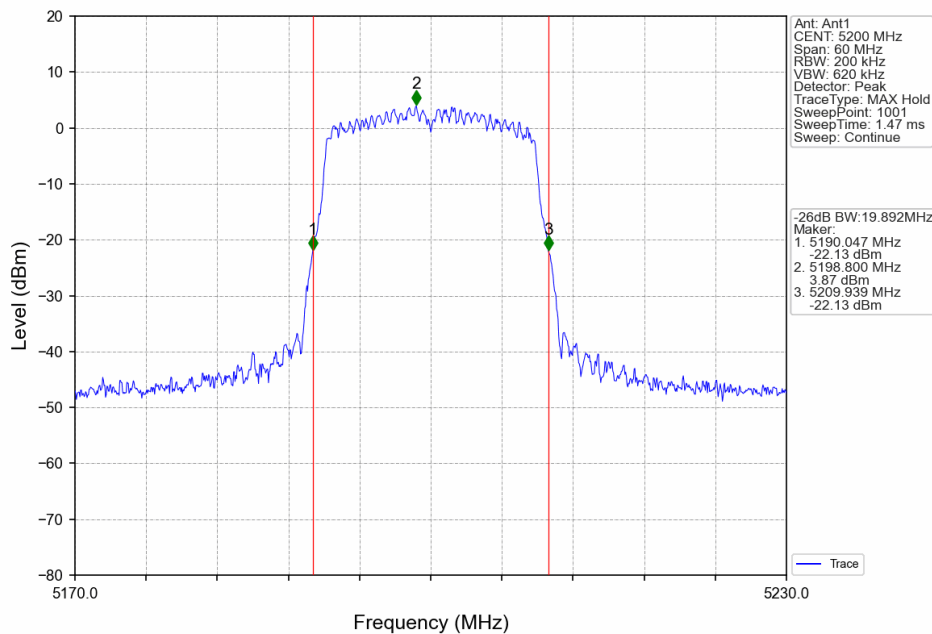
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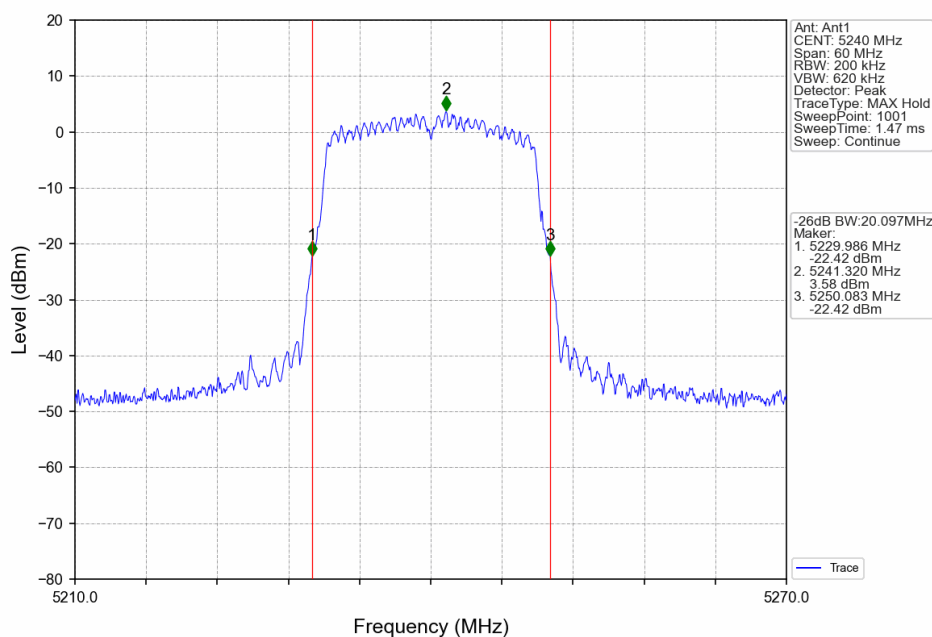
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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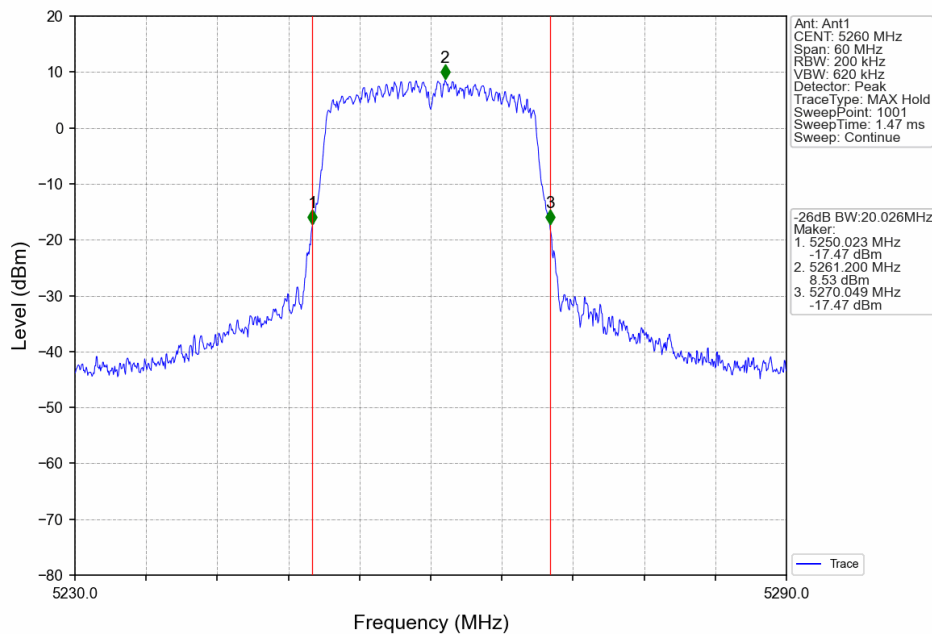
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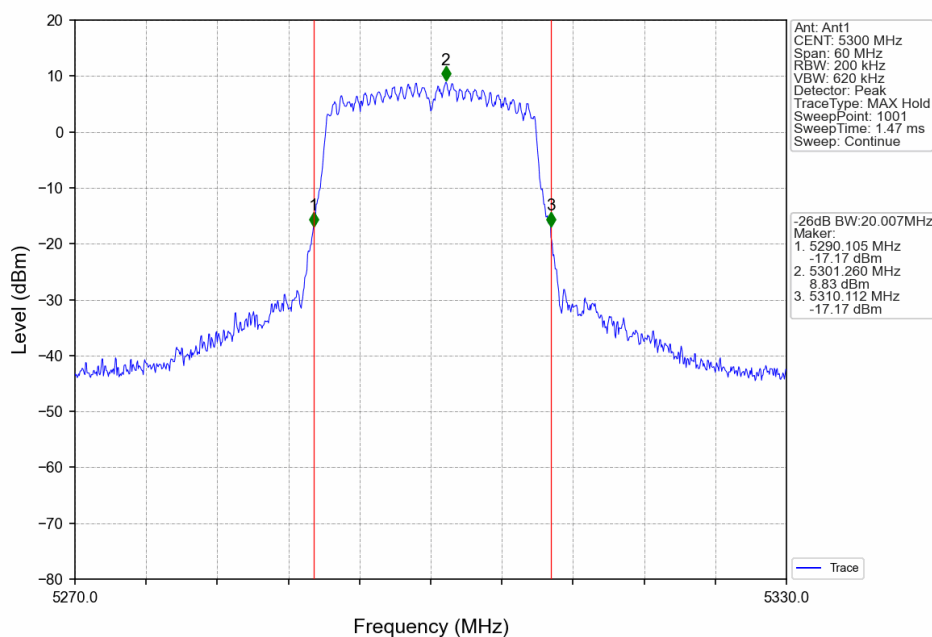
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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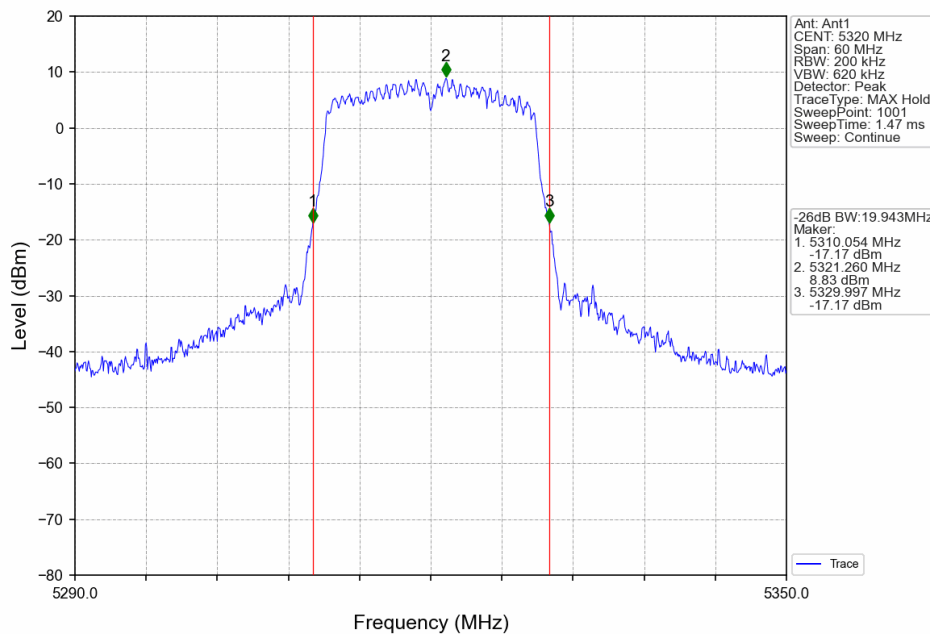
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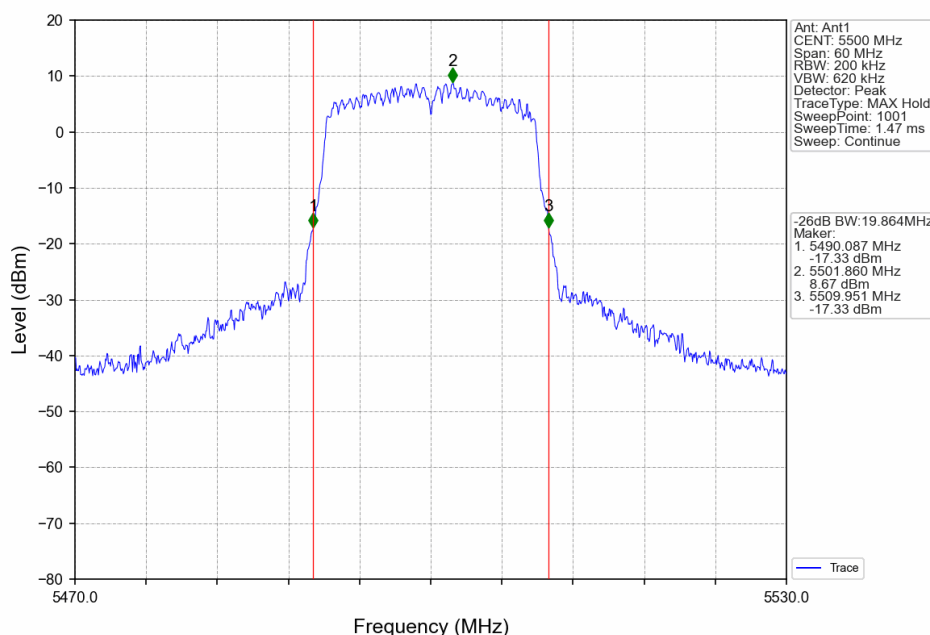
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



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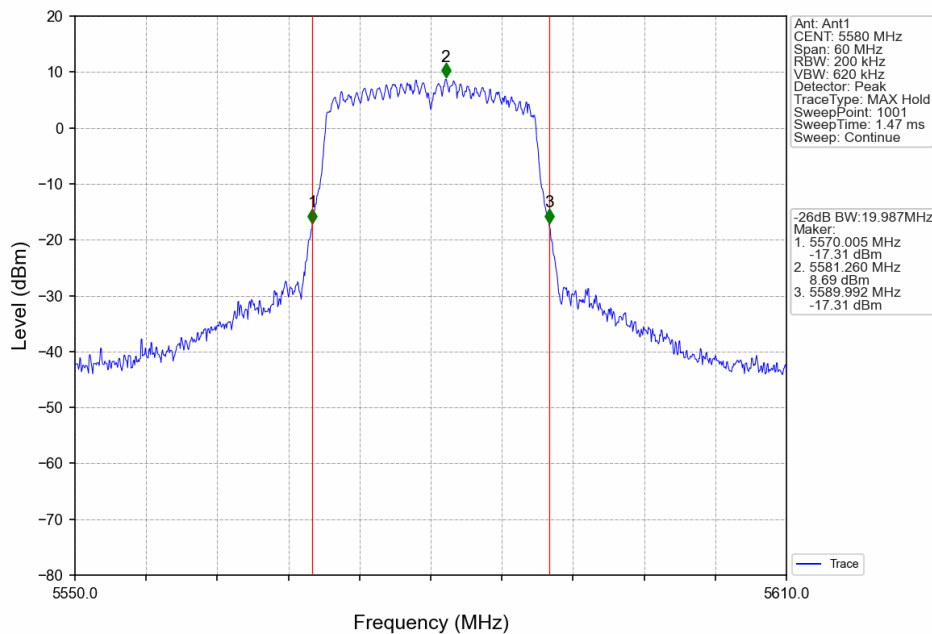
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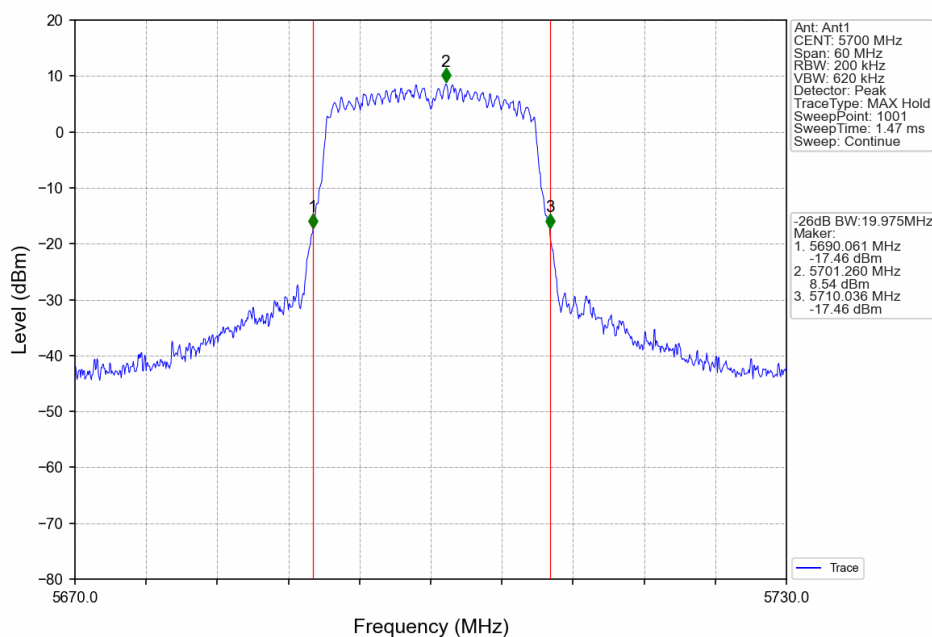
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802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



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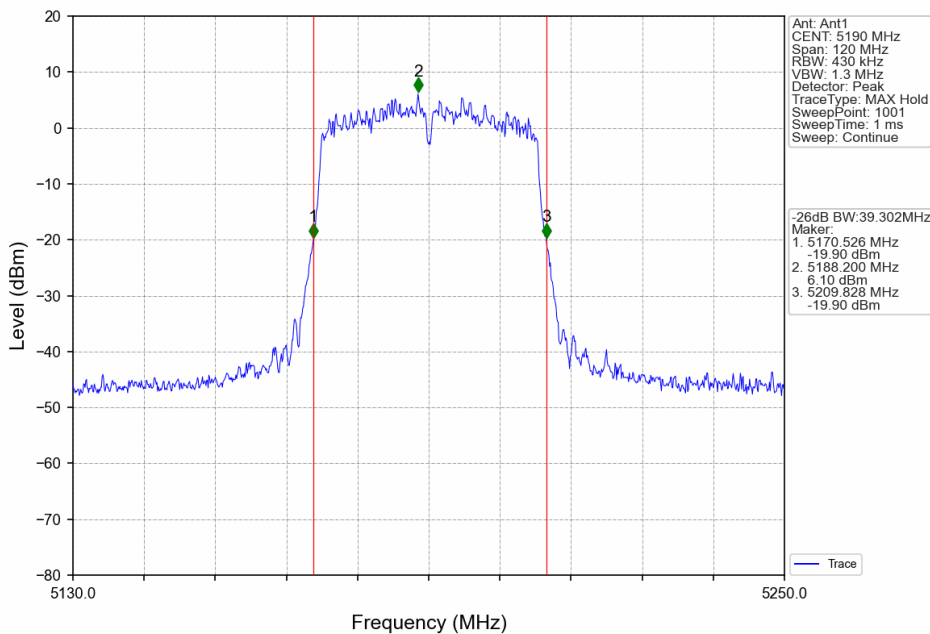
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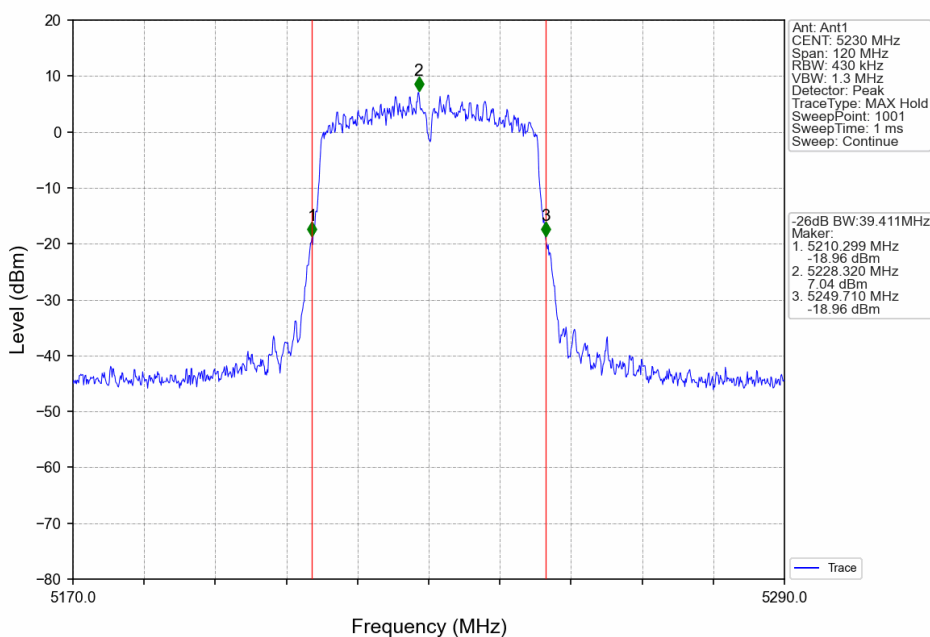
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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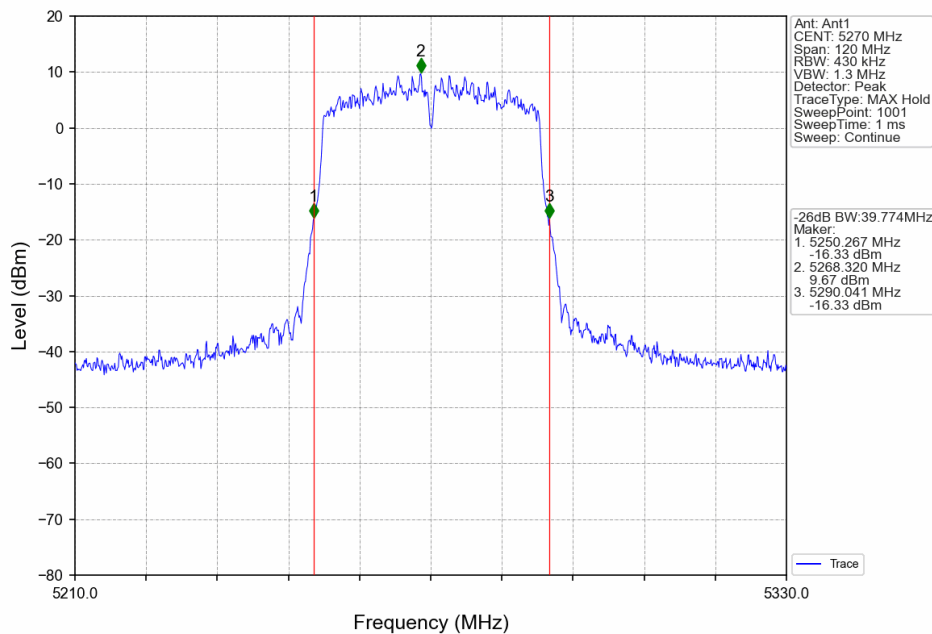
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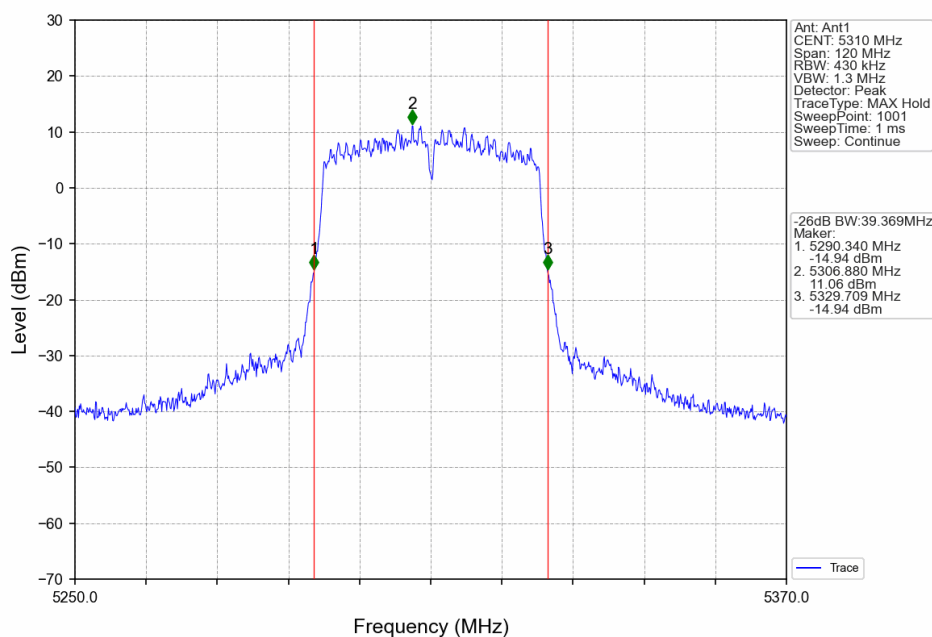
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



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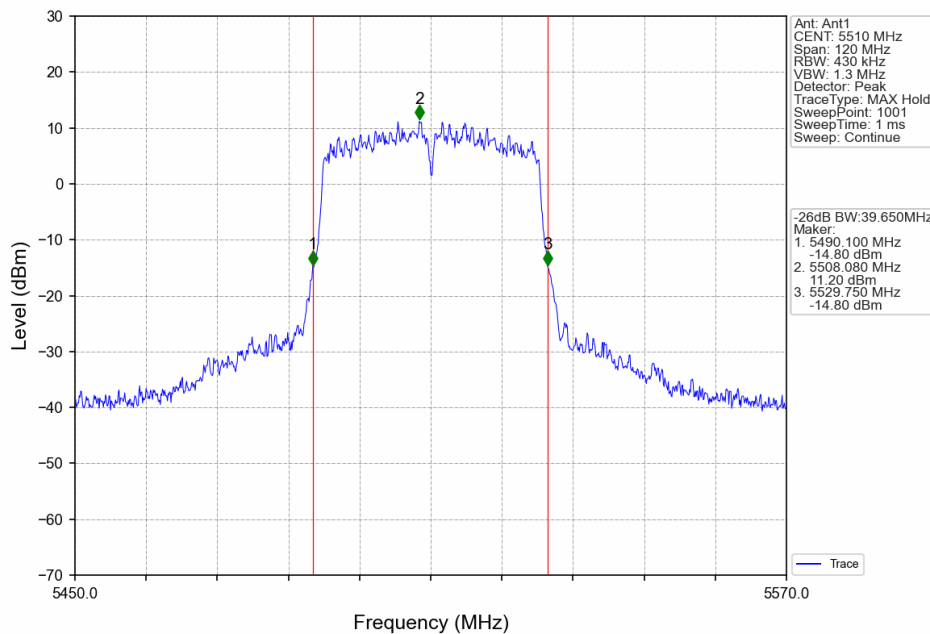
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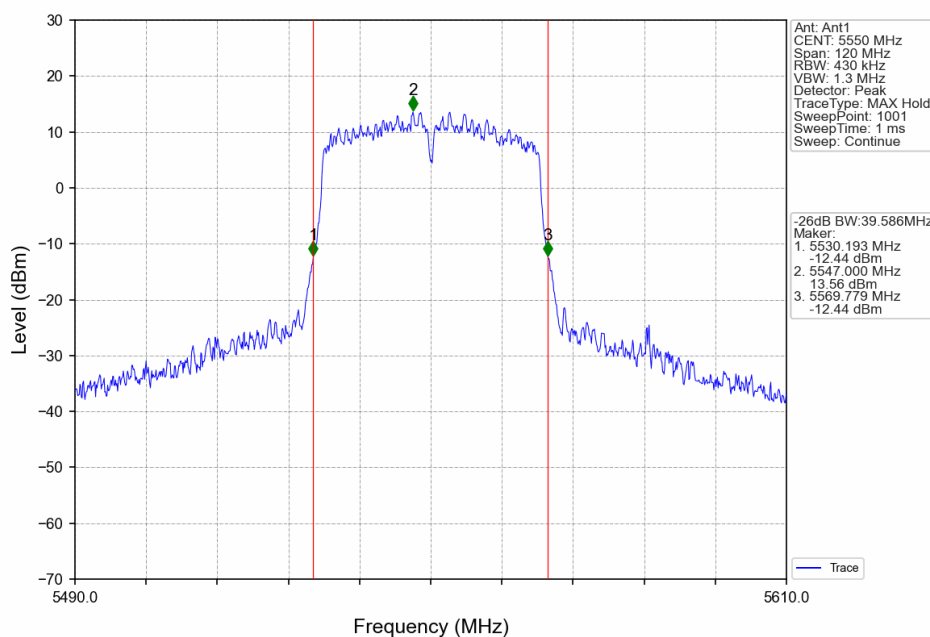
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802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



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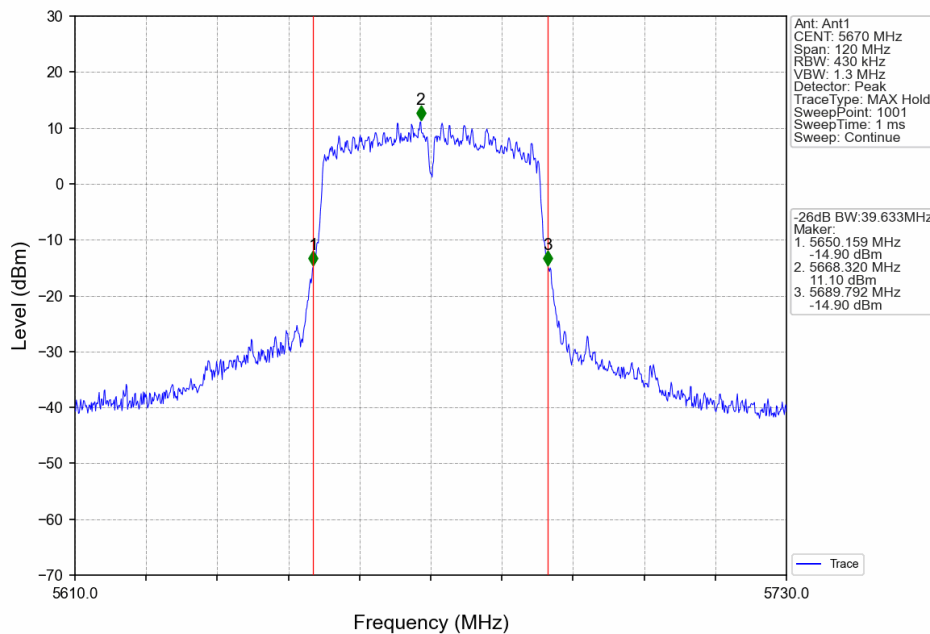
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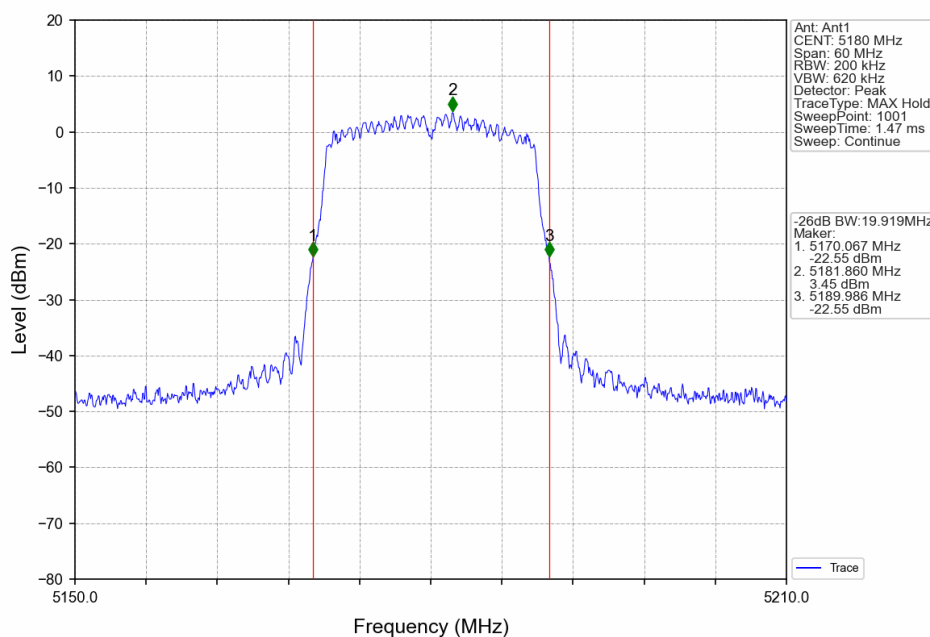
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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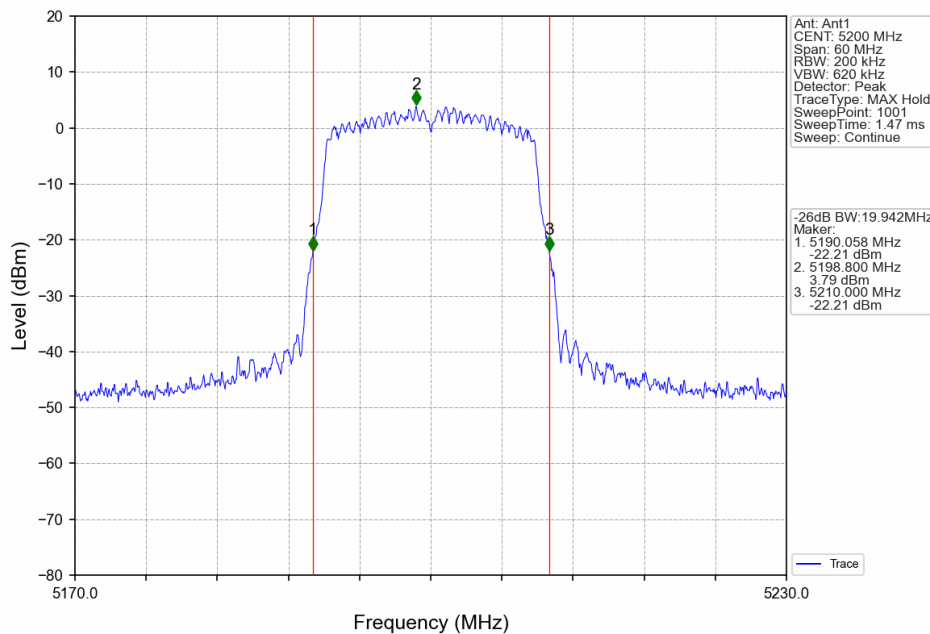
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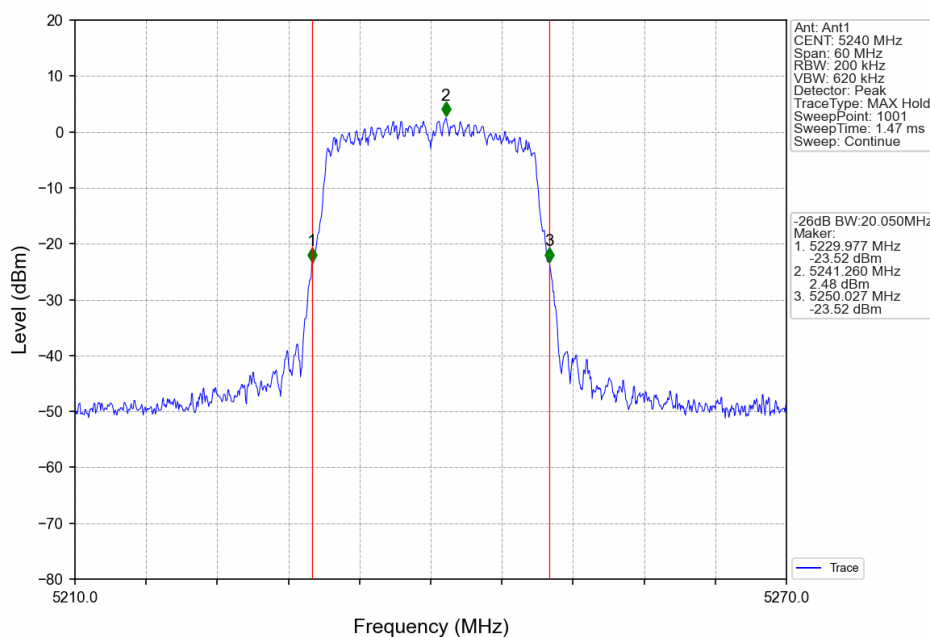
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



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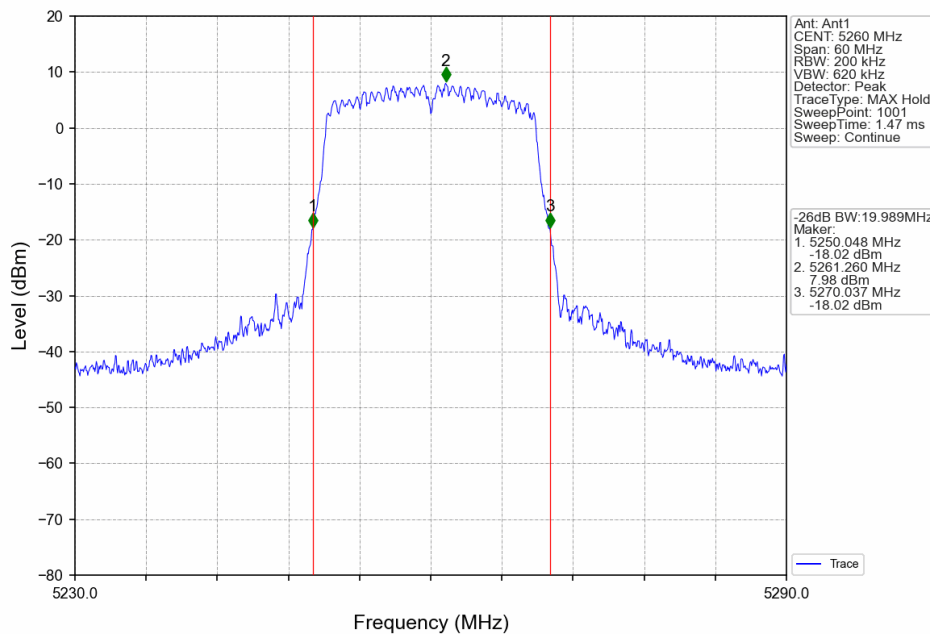
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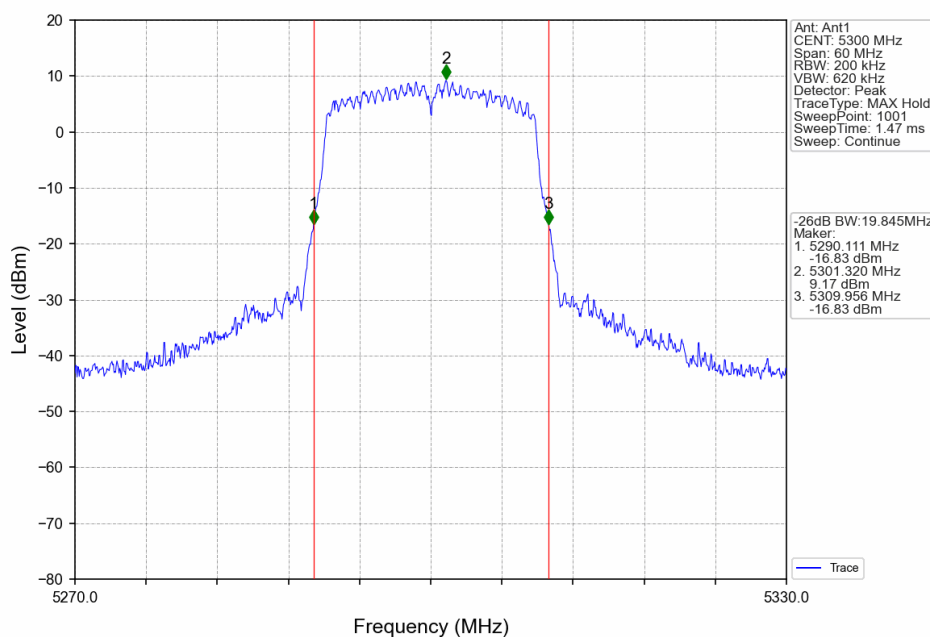
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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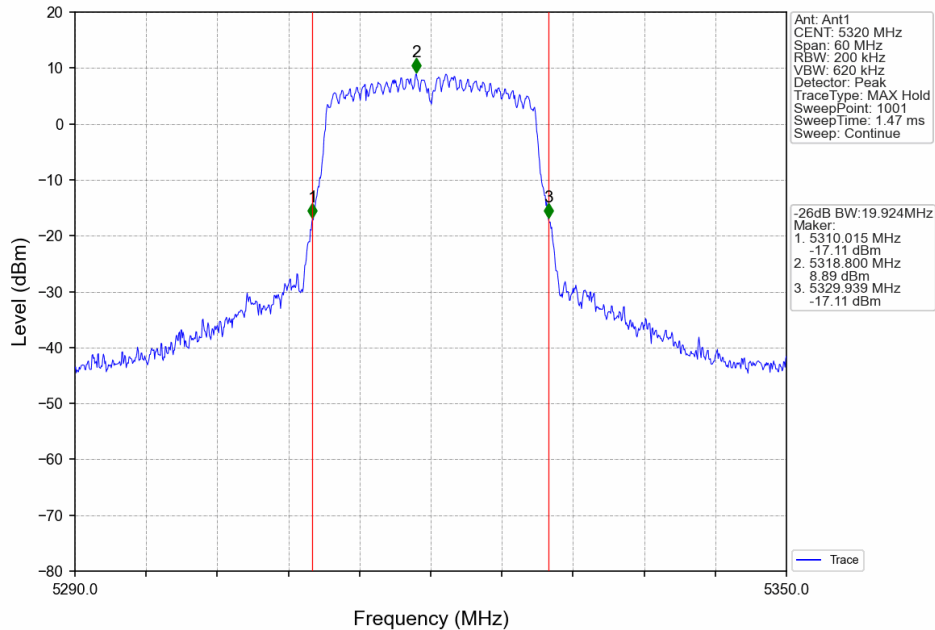
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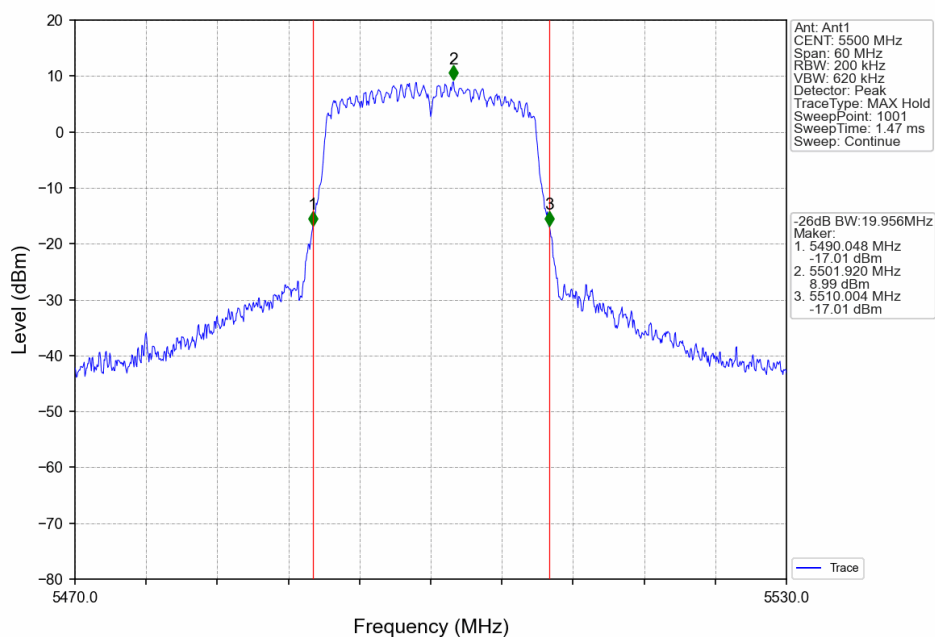
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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



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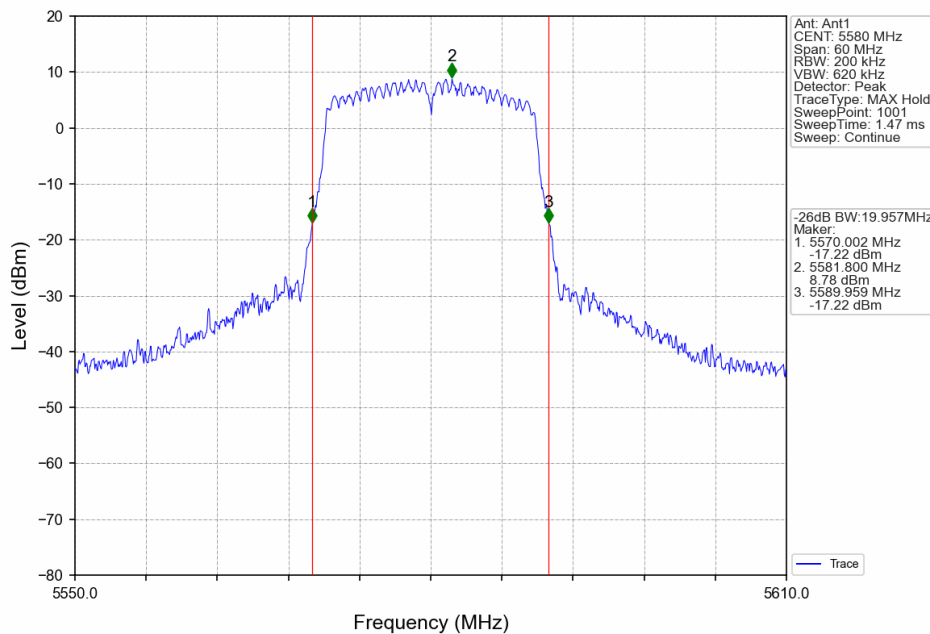
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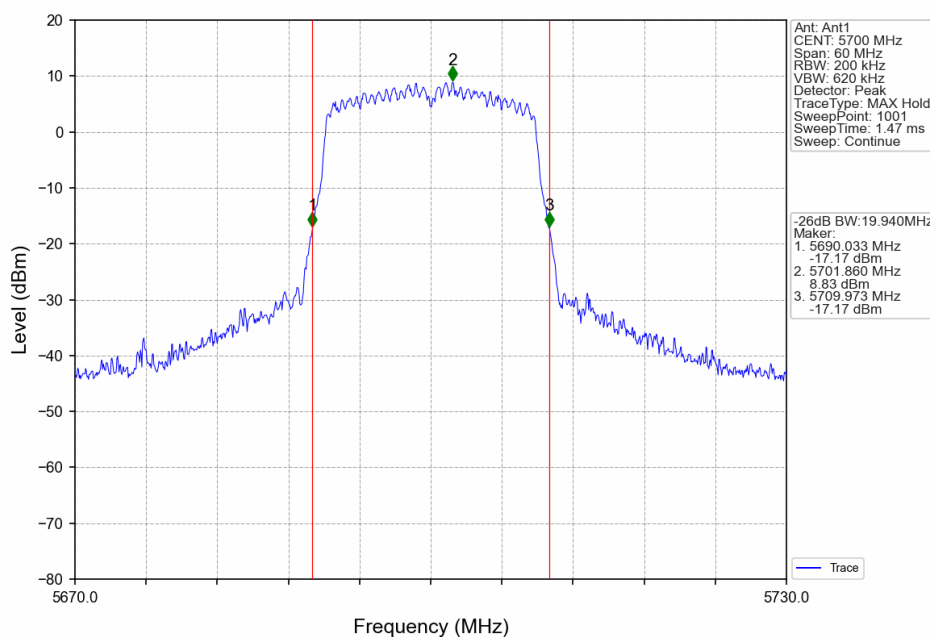
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



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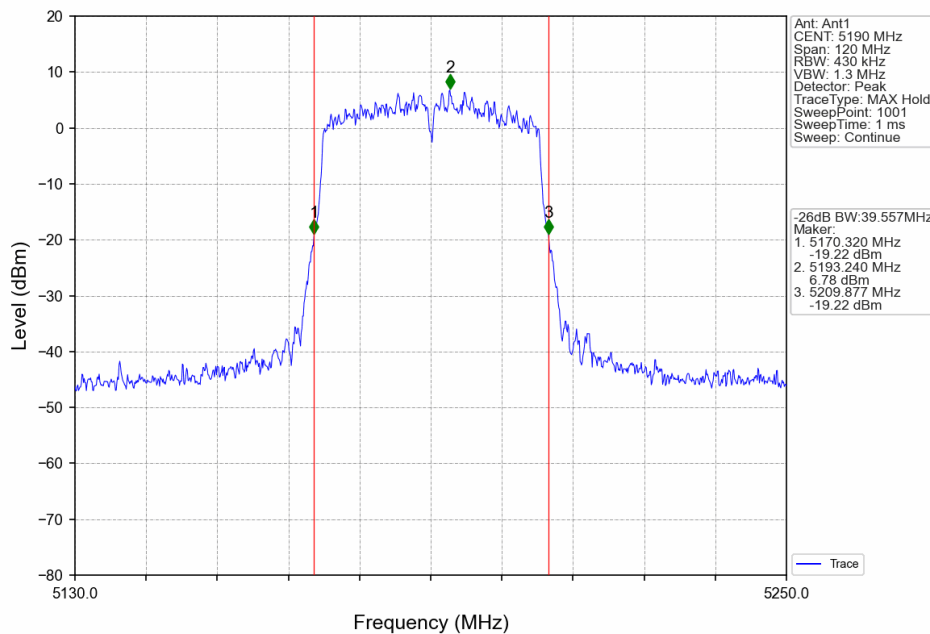
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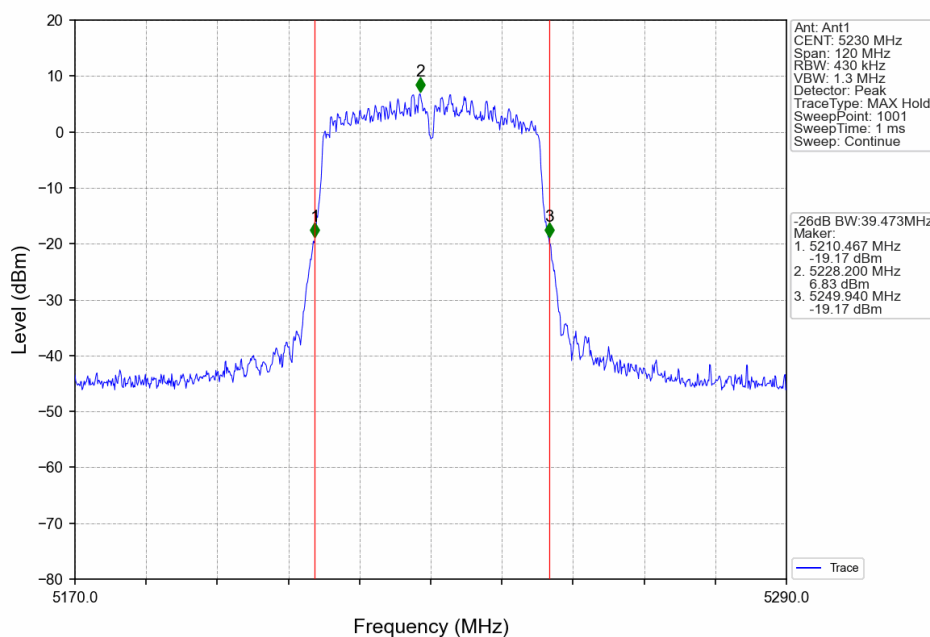
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



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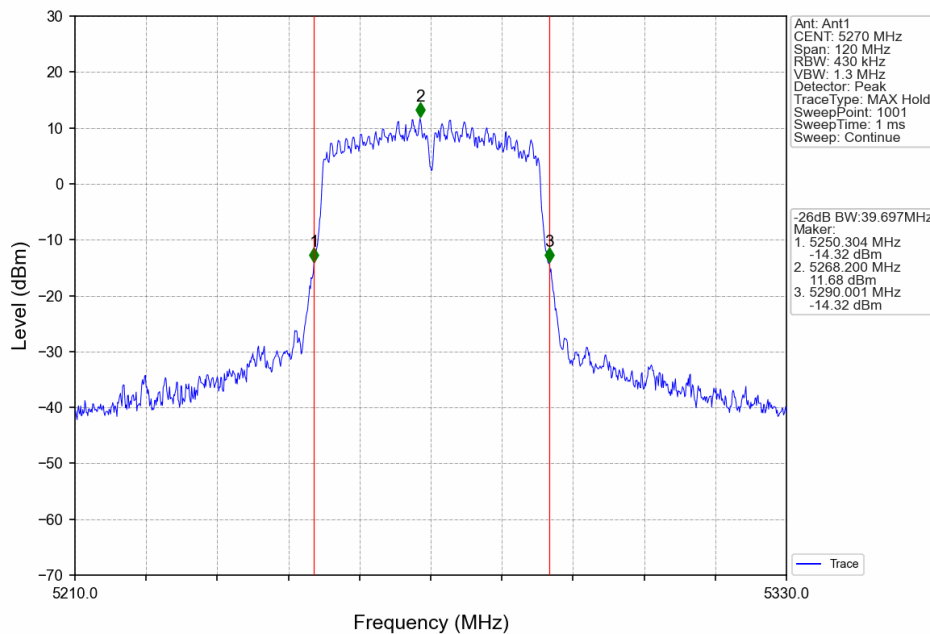
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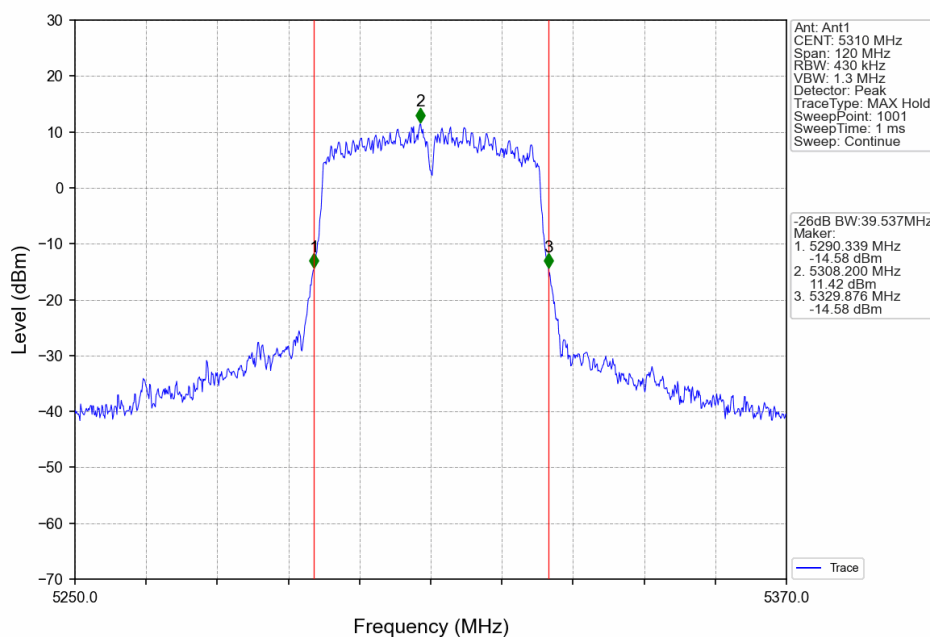
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802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



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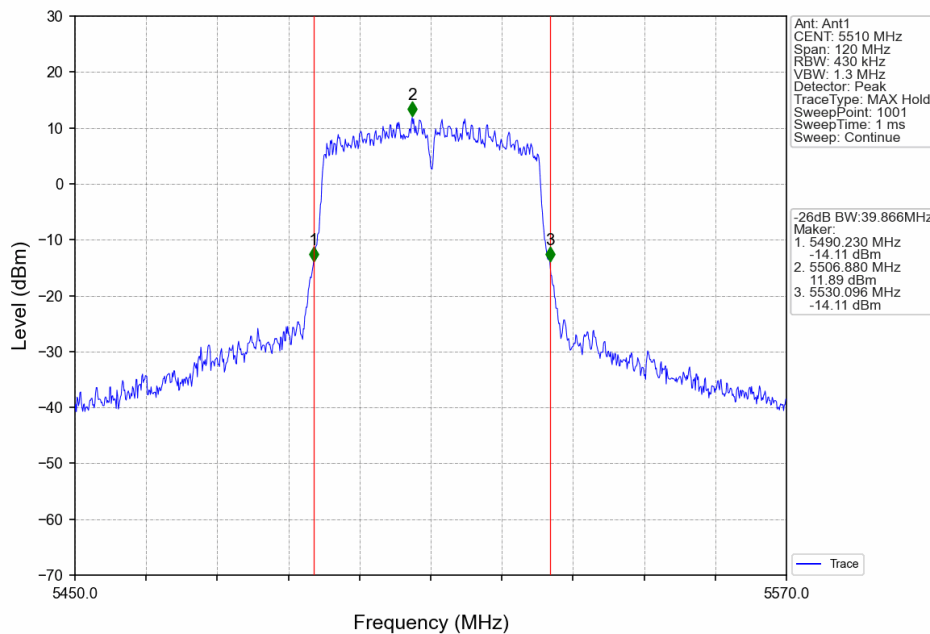
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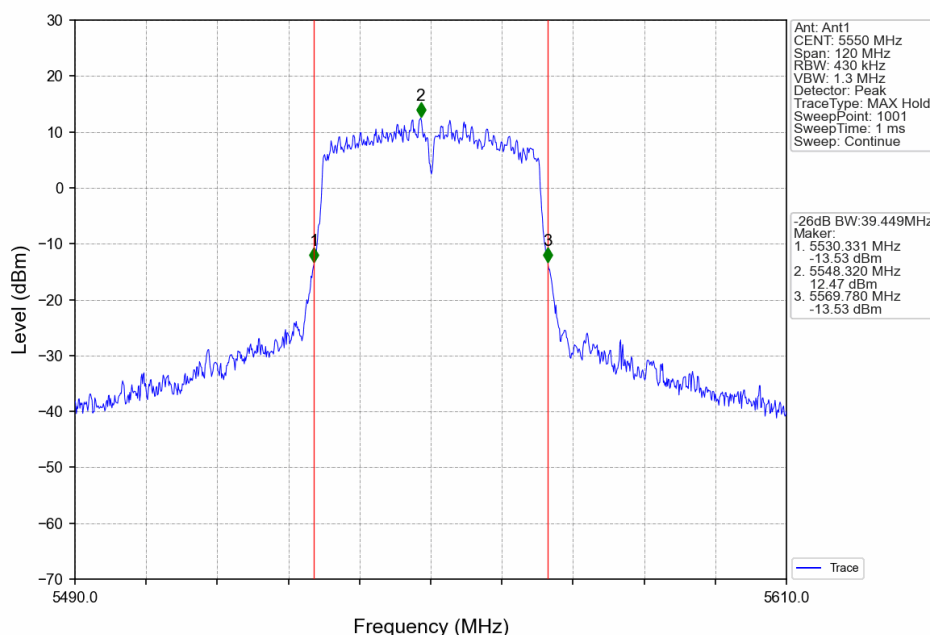
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802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



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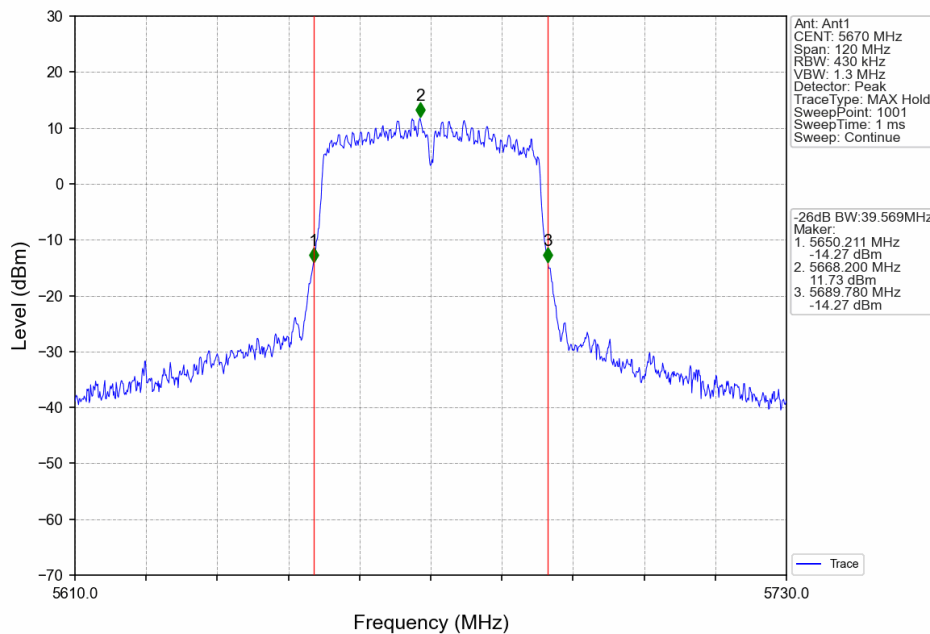
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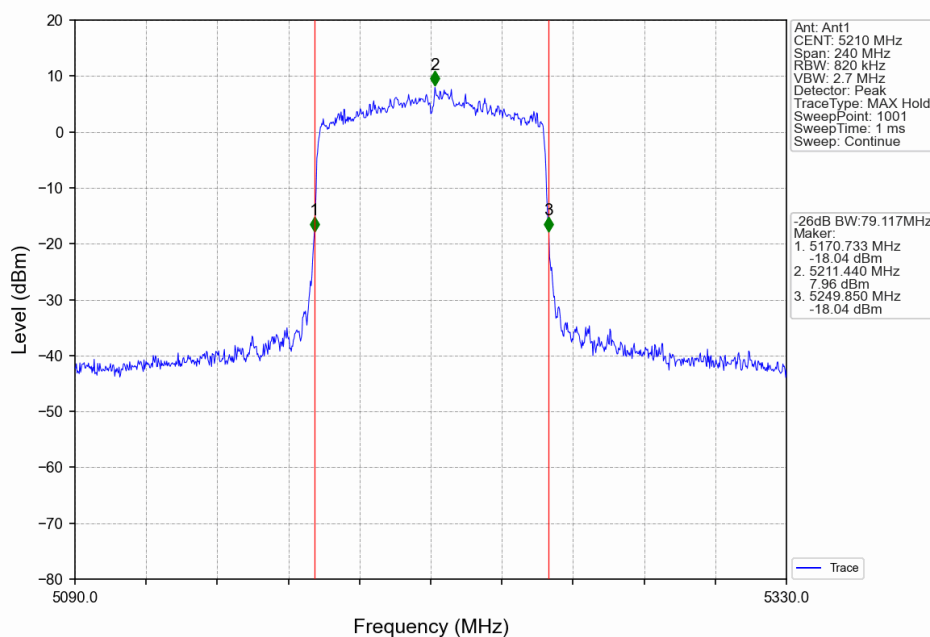
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802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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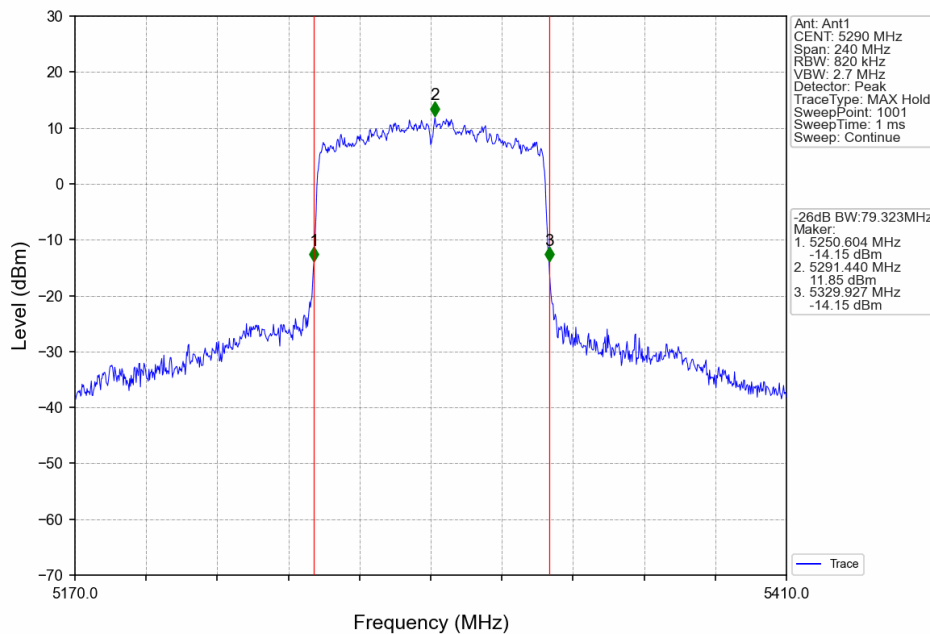
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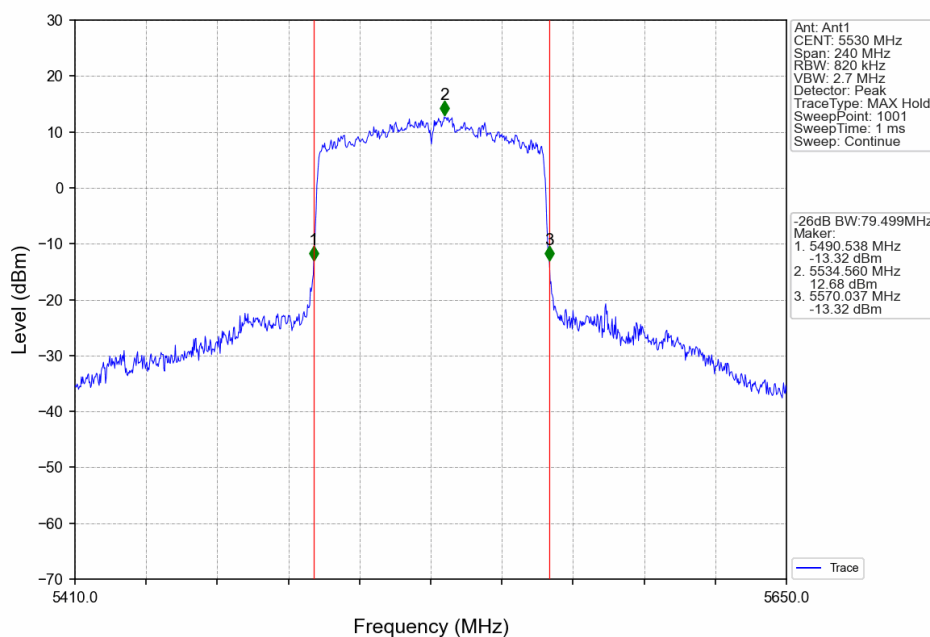
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802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



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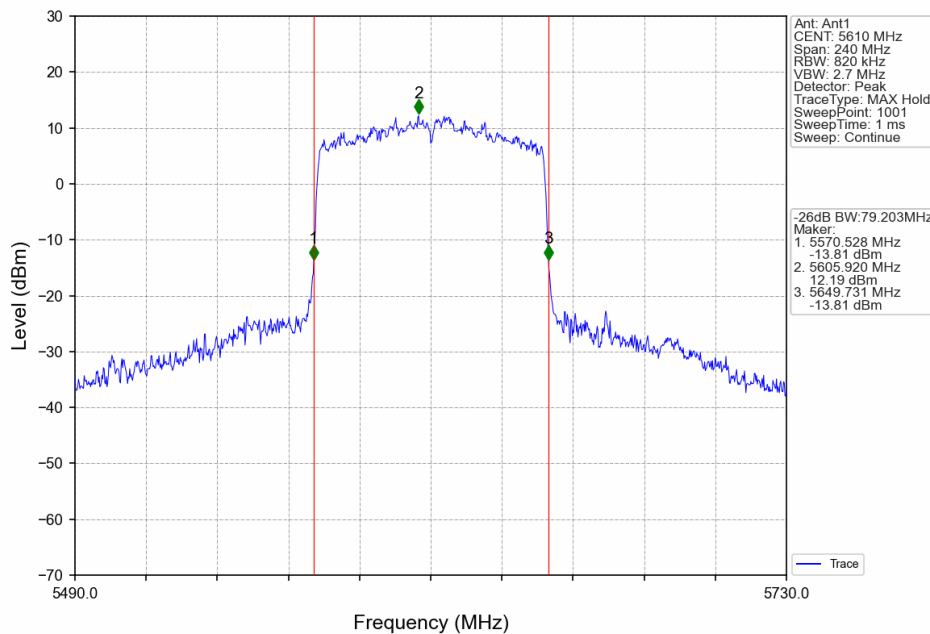
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802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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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	MIMO	5180	19.01	18.04	21.56	<=30	Pass
		5200	18.38	17.61	21.02	<=30	Pass
		5240	18.01	17.33	20.69	<=30	Pass
		5260	16.81	15.63	19.27	<=23.91	Pass
		5300	16.24	15.16	18.74	<=23.9	Pass
		5320	16.04	15.10	18.61	<=23.88	Pass
		5500	14.69	13.03	16.95	<=23.91	Pass
		5580	14.57	12.44	16.64	<=23.9	Pass
		5700	15.34	12.78	17.26	<=23.88	Pass
		5745	21.72	20.37	24.11	<=30	Pass
		5785	21.49	20.95	24.24	<=30	Pass
		5825	20.77	21.11	23.95	<=30	Pass
802.11n (HT20)	MIMO	5180	19.12	18.60	21.88	<=30	Pass
		5200	18.53	18.14	21.35	<=30	Pass
		5240	18.07	17.63	20.87	<=30	Pass
		5260	16.30	15.46	18.91	<=23.98	Pass
		5300	15.77	14.80	18.32	<=23.98	Pass
		5320	16.51	15.81	19.18	<=23.98	Pass
		5500	14.18	12.73	16.53	<=23.98	Pass
		5580	14.26	12.37	16.43	<=23.98	Pass
		5700	14.49	12.24	16.52	<=23.98	Pass
		5745	21.37	19.97	23.74	<=30	Pass
		5785	21.30	20.70	24.02	<=30	Pass
		5825	20.86	20.92	23.90	<=30	Pass
802.11n (HT40)	MIMO	5190	18.91	18.02	21.50	<=30	Pass
		5230	18.45	17.64	21.07	<=30	Pass
		5270	19.18	18.51	21.87	<=23.98	Pass
		5310	19.90	19.28	22.61	<=23.98	Pass
		5510	18.30	16.53	20.51	<=23.98	Pass
		5550	18.59	16.74	20.77	<=23.98	Pass



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		5670	17.76	15.62	19.83	<=23.98	Pass
		5755	21.55	20.49	24.06	<=30	Pass
		5795	21.64	21.30	24.48	<=30	Pass
802.11ac (VHT20)	MIMO	5180	18.17	17.58	20.90	<=30	Pass
		5200	19.00	18.45	21.74	<=30	Pass
		5240	18.42	18.06	21.25	<=30	Pass
		5260	15.88	14.98	18.46	<=23.98	Pass
		5300	16.47	15.63	19.08	<=23.98	Pass
		5320	16.27	15.61	18.96	<=23.98	Pass
		5500	14.99	13.56	17.34	<=23.98	Pass
		5580	15.02	13.09	17.17	<=23.98	Pass
		5700	15.19	12.96	17.23	<=23.98	Pass
		5745	21.64	20.12	23.96	<=30	Pass
		5785	21.70	20.86	24.31	<=30	Pass
		5825	21.09	21.01	24.06	<=30	Pass
802.11ac (VHT40)	MIMO	5190	18.32	18.55	21.45	<=30	Pass
		5230	18.94	18.14	21.57	<=30	Pass
		5270	18.85	18.32	21.60	<=23.98	Pass
		5310	18.90	18.15	21.55	<=23.98	Pass
		5510	18.19	16.48	20.43	<=23.98	Pass
		5550	18.50	16.65	20.68	<=23.98	Pass
		5670	18.53	16.45	20.62	<=23.98	Pass
		5755	21.18	20.04	23.66	<=30	Pass
		5795	21.14	20.72	23.95	<=30	Pass
802.11ac (VHT80)	MIMO	5210	19.47	18.82	22.17	<=30	Pass
		5290	19.95	19.22	22.61	<=23.98	Pass
		5530	21.03	20.25	23.67	<=23.98	Pass
		5610	20.16	19.07	22.66	<=23.98	Pass
		5775	21.70	20.82	24.29	<=30	Pass

Note:

Band	Ant1 gain (dBi)	Ant2 gain (dBi)	Directional gain for power
U-NII Band 1	3.86	4.02	4.02
U-NII Band 2A	3.86	4.02	4.02
U-NII Band 2C	4.08	4.88	4.88
U-NII Band 3	4.12	4.73	4.73



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3.2 TPC Power

3.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	MIMO	5260	14.97	14.52	17.76	<=23.91	Pass
		5300	14.84	14.11	17.50	<=23.9	Pass
		5320	14.77	13.91	17.37	<=23.88	Pass
		5500	13.57	12.90	16.26	<=23.91	Pass
		5580	13.60	12.62	16.15	<=23.9	Pass
		5700	13.39	13.17	16.29	<=23.88	Pass
802.11n (HT20)	MIMO	5260	14.38	13.86	17.14	<=23.98	Pass
		5300	14.49	13.51	17.04	<=23.98	Pass
		5320	14.41	13.32	16.91	<=23.98	Pass
		5500	13.24	11.21	15.35	<=23.98	Pass
		5580	12.72	10.46	14.75	<=23.98	Pass
		5700	13.38	11.29	15.47	<=23.98	Pass
802.11n (HT40)	MIMO	5270	15.19	14.71	17.97	<=23.98	Pass
		5310	15.33	14.48	17.94	<=23.98	Pass
		5510	14.01	13.27	16.67	<=23.98	Pass
		5550	14.46	13.52	17.03	<=23.98	Pass
		5670	13.37	12.86	16.13	<=23.98	Pass
802.11ac (VHT20)	MIMO	5260	14.34	13.73	17.06	<=23.98	Pass
		5300	15.36	14.37	17.90	<=23.98	Pass
		5320	14.24	13.20	16.76	<=23.98	Pass
		5500	13.11	12.27	15.72	<=23.98	Pass
		5580	13.06	11.88	15.52	<=23.98	Pass
		5700	12.91	12.52	15.73	<=23.98	Pass
802.11ac (VHT40)	MIMO	5270	14.93	14.47	17.72	<=23.98	Pass
		5310	16.15	15.35	18.78	<=23.98	Pass
		5510	13.79	13.15	16.49	<=23.98	Pass
		5550	14.32	13.20	16.81	<=23.98	Pass
		5670	13.16	12.65	15.92	<=23.98	Pass
802.11ac (VHT80)	MIMO	5290	15.41	14.76	18.11	<=23.98	Pass
		5530	14.76	13.94	17.38	<=23.98	Pass
		5610	13.87	12.68	16.33	<=23.98	Pass



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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	MIMO	5180	8.69	7.62	11.00	<=15.97	Pass
		5200	8.03	7.23	10.62	<=15.97	Pass
		5240	7.89	7.95	10.76	<=15.97	Pass
		5260	6.52	5.33	8.86	<=9.97	Pass
		5300	6.08	4.76	8.34	<=9.97	Pass
		5320	5.74	4.88	8.26	<=9.97	Pass
		5500	4.25	2.69	6.42	<=9.11	Pass
		5580	4.23	2.08	6.23	<=9.11	Pass
		5700	4.95	2.51	6.82	<=9.11	Pass
802.11n (HT20)	MIMO	5180	8.75	8.04	11.28	<=15.97	Pass
		5200	7.94	7.77	10.71	<=15.97	Pass
		5240	7.55	7.29	10.23	<=15.97	Pass
		5260	5.83	4.94	8.31	<=9.97	Pass
		5300	5.17	4.44	7.78	<=9.97	Pass
		5320	5.89	5.33	8.59	<=9.97	Pass
		5500	3.77	2.31	5.95	<=9.11	Pass
		5580	3.93	1.91	5.93	<=9.11	Pass
		5700	4.06	2.79	6.33	<=9.11	Pass
802.11n (HT40)	MIMO	5190	5.34	4.60	7.87	<=15.97	Pass
		5230	5.20	4.22	7.59	<=15.97	Pass
		5270	5.59	5.28	8.37	<=9.97	Pass
		5310	6.73	5.80	9.17	<=9.97	Pass
		5510	4.76	2.99	6.89	<=9.11	Pass
		5550	5.02	3.56	7.24	<=9.11	Pass
		5670	4.25	2.08	6.16	<=9.11	Pass
802.11ac (VHT20)	MIMO	5180	7.63	7.30	10.27	<=15.97	Pass
		5200	8.37	8.11	11.09	<=15.97	Pass
		5240	7.85	7.63	10.63	<=15.97	Pass
		5260	5.22	4.84	7.83	<=9.97	Pass
		5300	6.01	5.35	8.52	<=9.97	Pass
		5320	5.62	5.19	8.32	<=9.97	Pass
		5500	4.56	3.15	6.80	<=9.11	Pass



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		5580	4.52	2.74	6.59	<=9.11	Pass
		5700	4.67	2.51	6.65	<=9.11	Pass
802.11ac (VHT40)	MIMO	5190	6.09	5.27	8.44	<=15.97	Pass
		5230	5.54	4.66	8.03	<=15.97	Pass
		5270	5.34	5.02	8.11	<=9.97	Pass
		5310	5.73	4.86	8.22	<=9.97	Pass
		5510	4.58	3.21	6.80	<=9.11	Pass
		5550	5.03	3.30	7.24	<=9.11	Pass
		5670	4.97	3.09	7.01	<=9.11	Pass
802.11ac (VHT80)	MIMO	5210	3.67	2.75	6.23	<=15.97	Pass
		5290	3.85	3.58	6.63	<=9.97	Pass
		5530	5.26	4.32	7.66	<=9.11	Pass
		5610	4.11	2.91	6.52	<=9.11	Pass

Note:

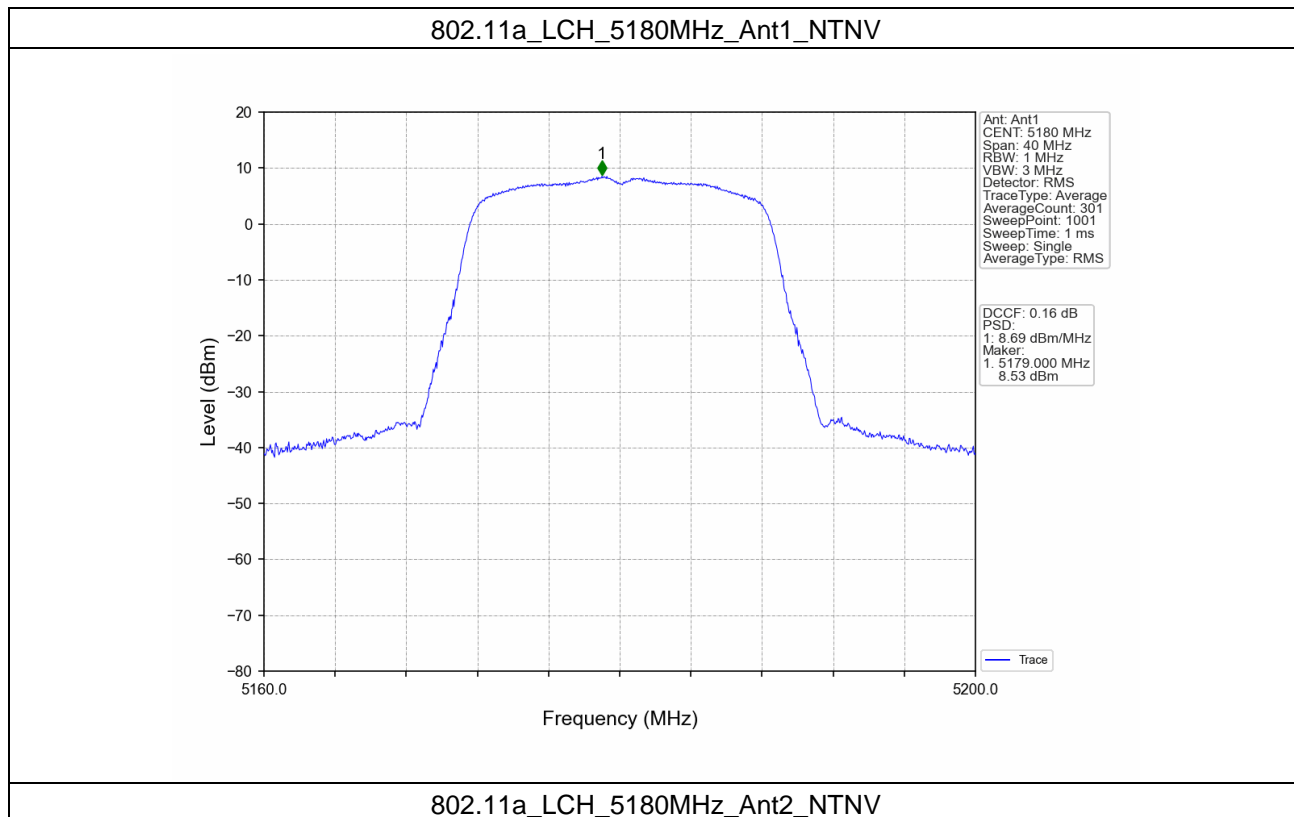
Band	Ant1 gain (dBi)	Ant2 gain (dBi)	Directional gain for PSD
U-NII Band 1	3.86	4.02	7.03
U-NII Band 2A	3.86	4.02	7.03
U-NII Band 2C	4.08	4.88	7.89
U-NII Band 3	4.12	4.73	7.74



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4.1.2 Test Graph



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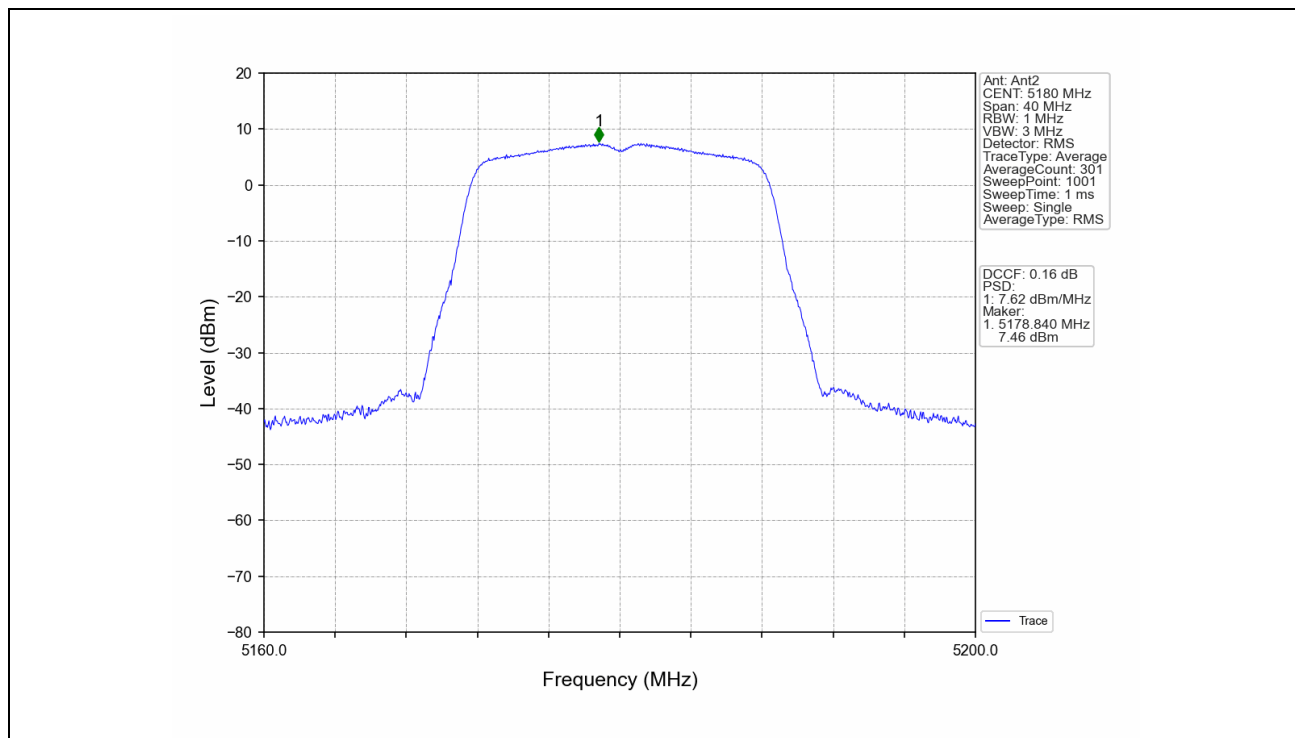
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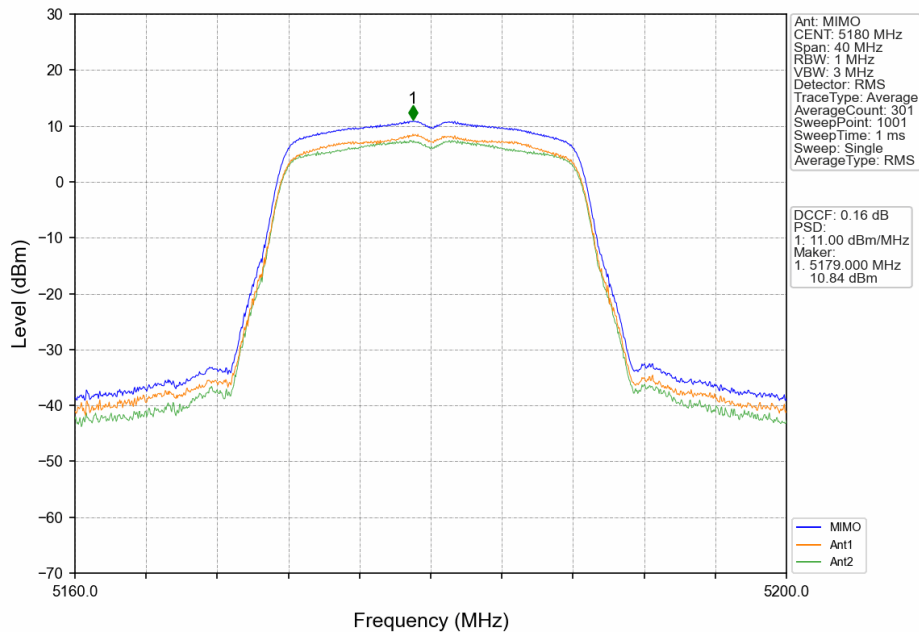
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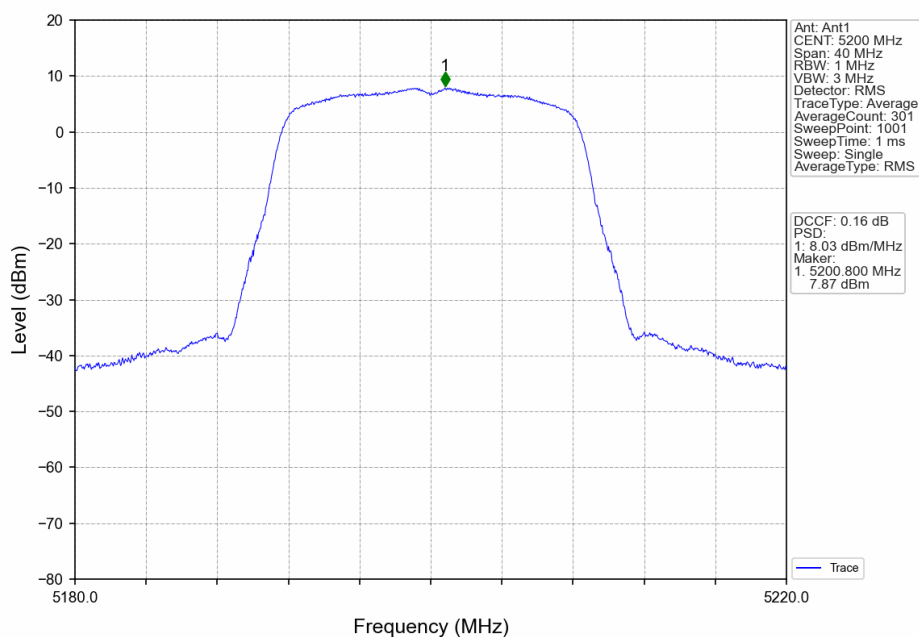
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802.11a_LCH_5180MHz_MIMO_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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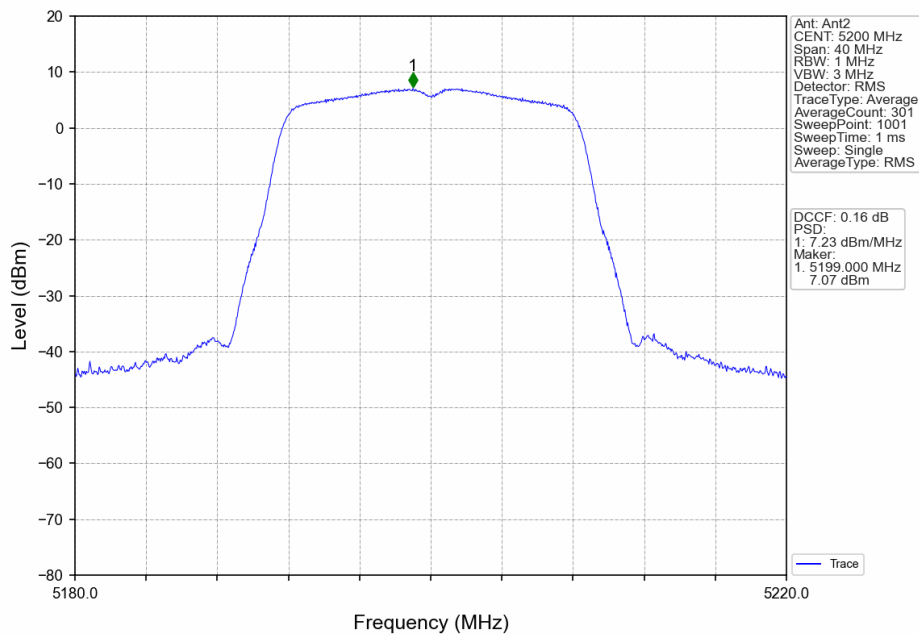
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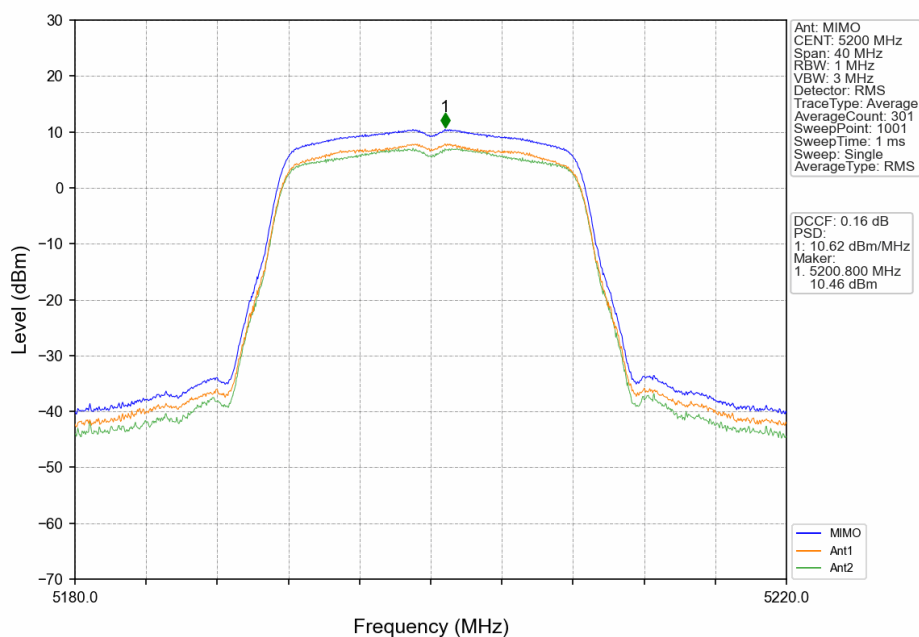
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802.11a_MCH_5200MHz_Ant2_NTNV



802.11a_MCH_5200MHz_MIMO_NTNV



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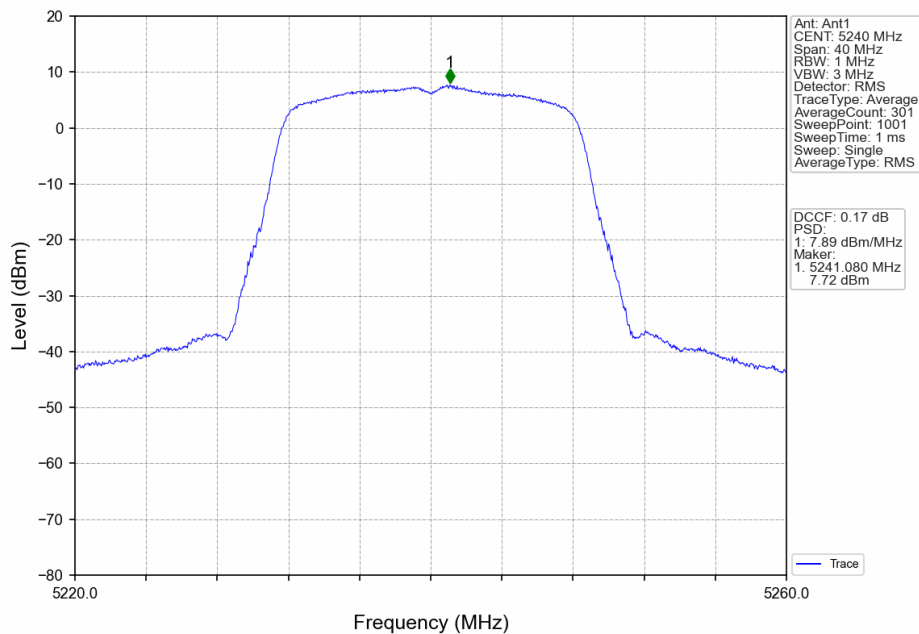
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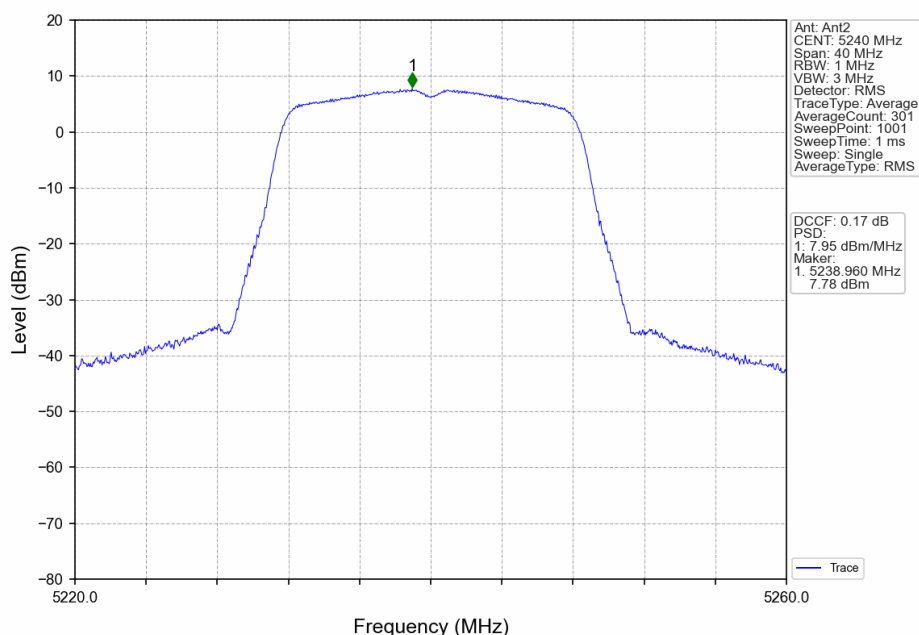
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV



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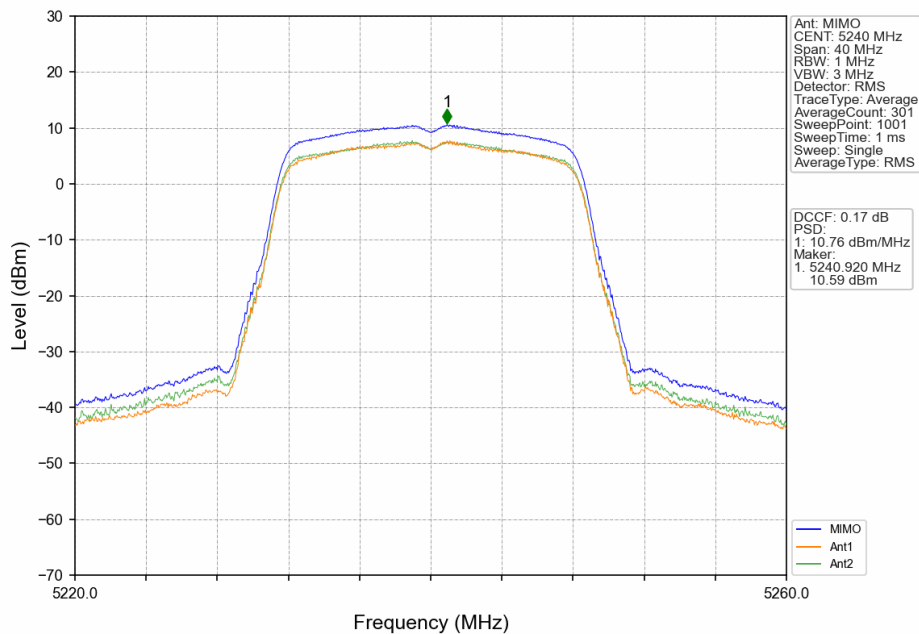
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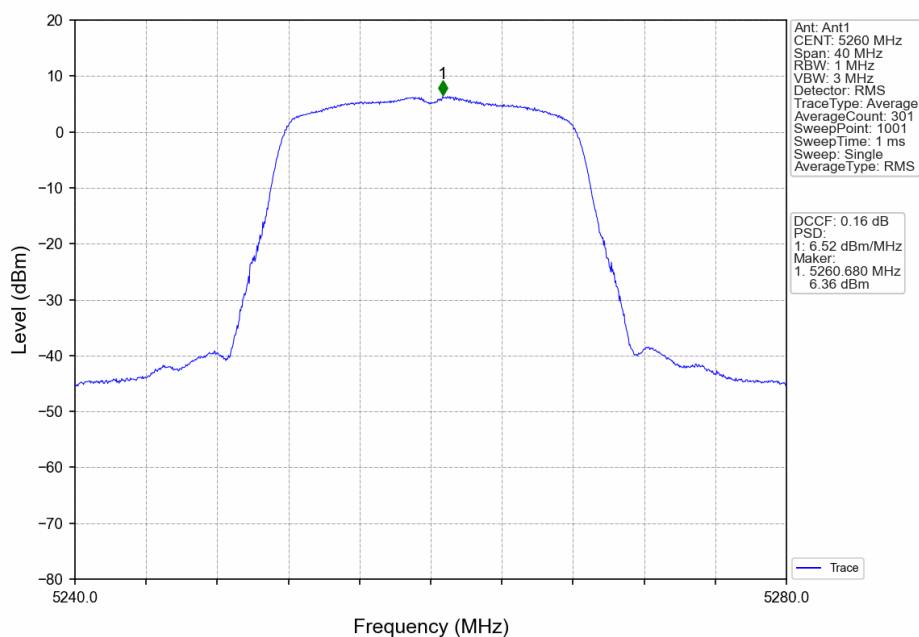
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802.11a_HCH_5240MHz_MIMO_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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