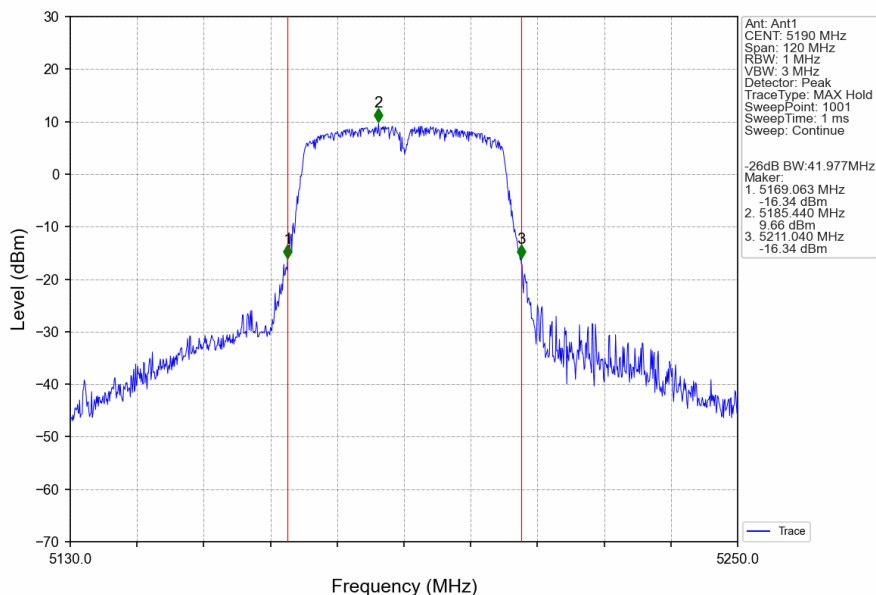
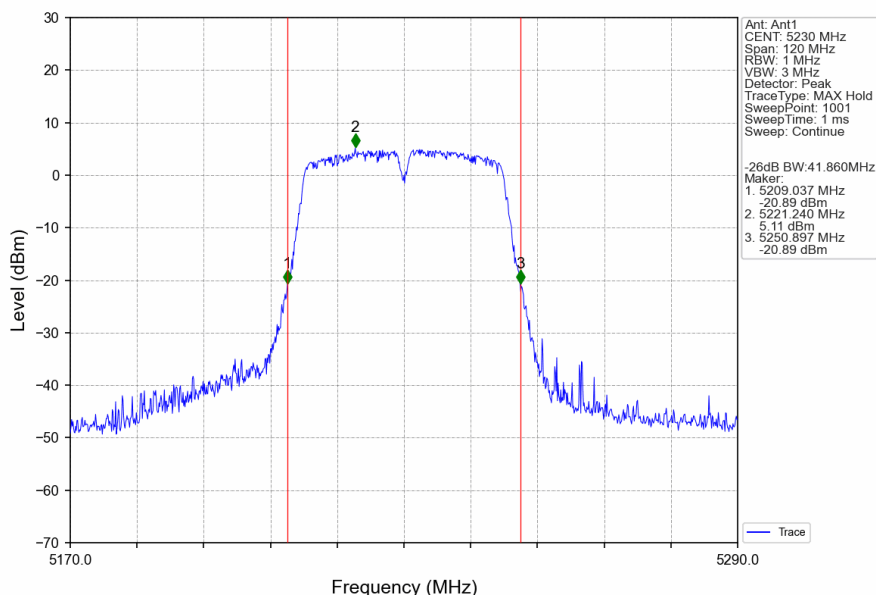


802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

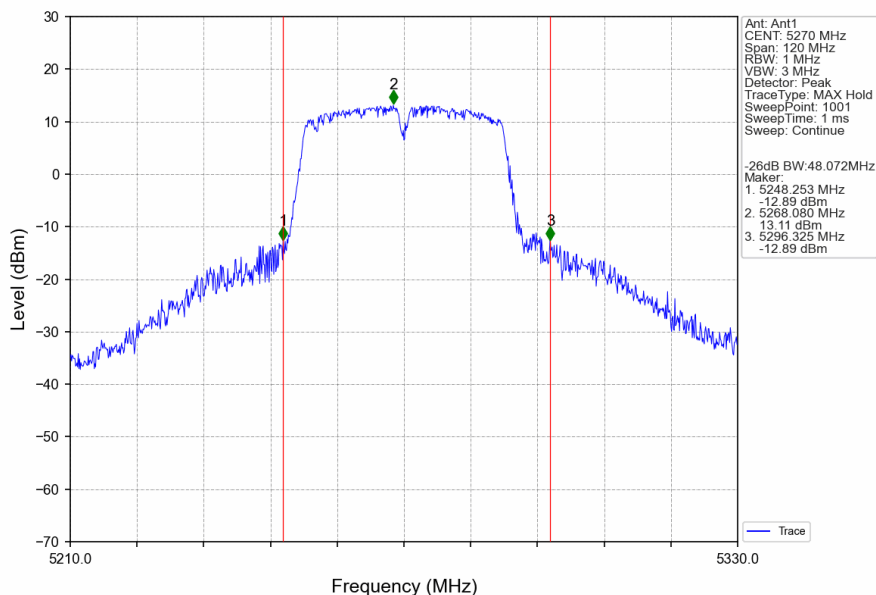


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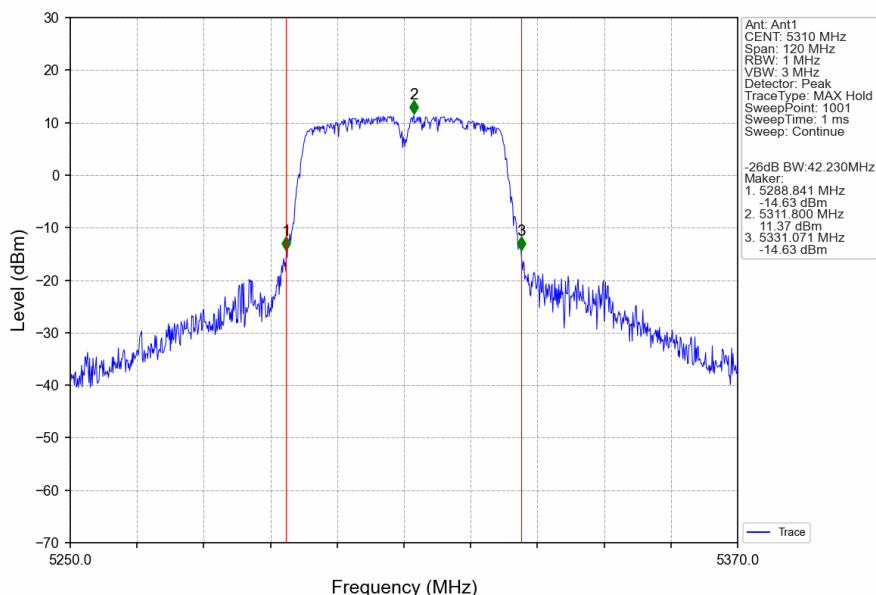
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



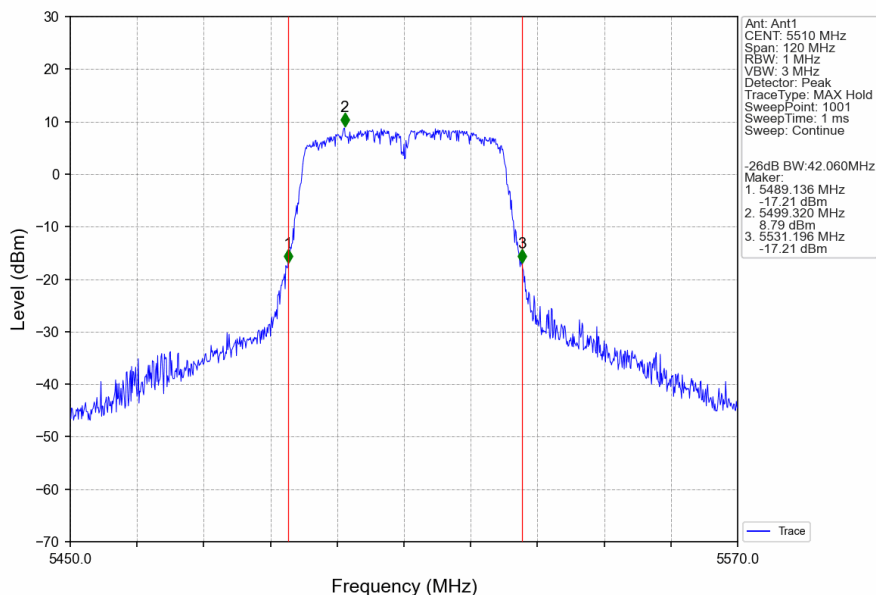
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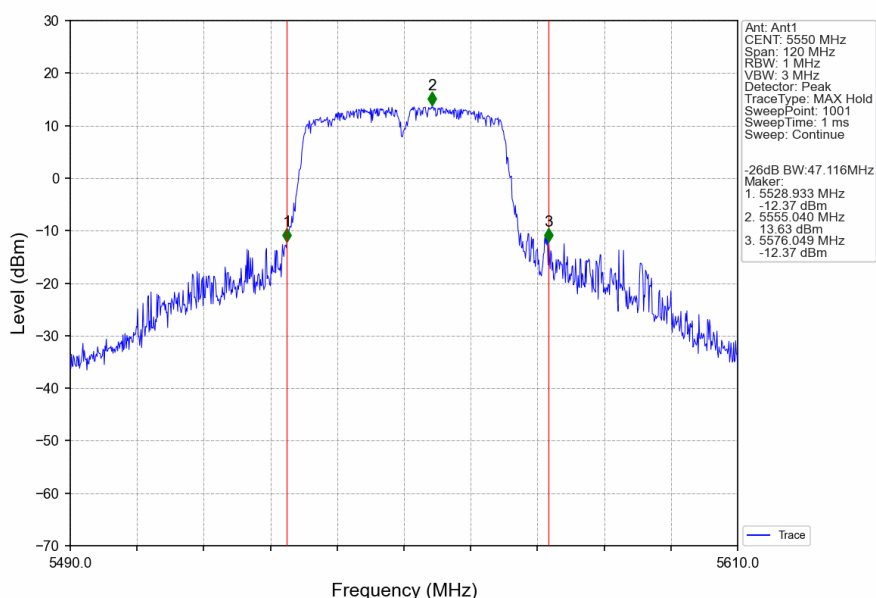
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802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV

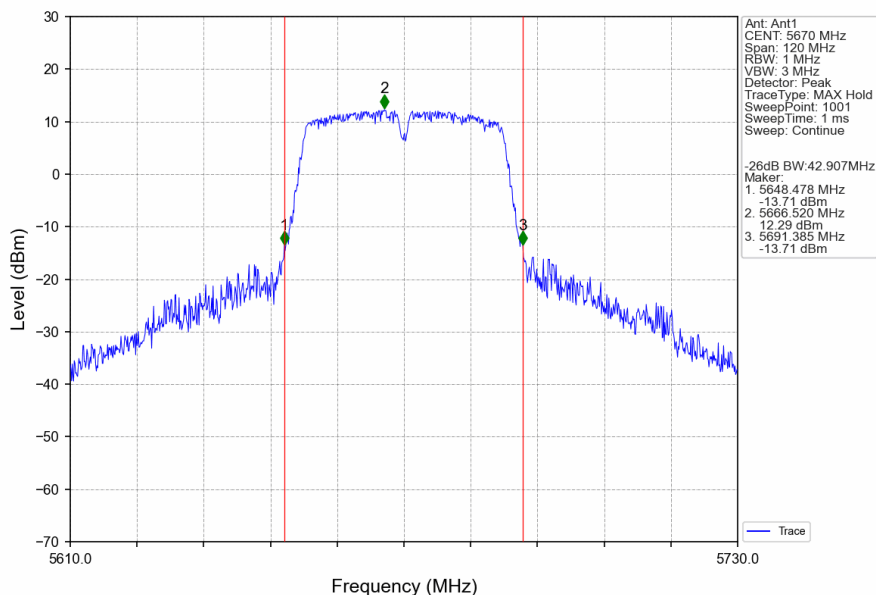


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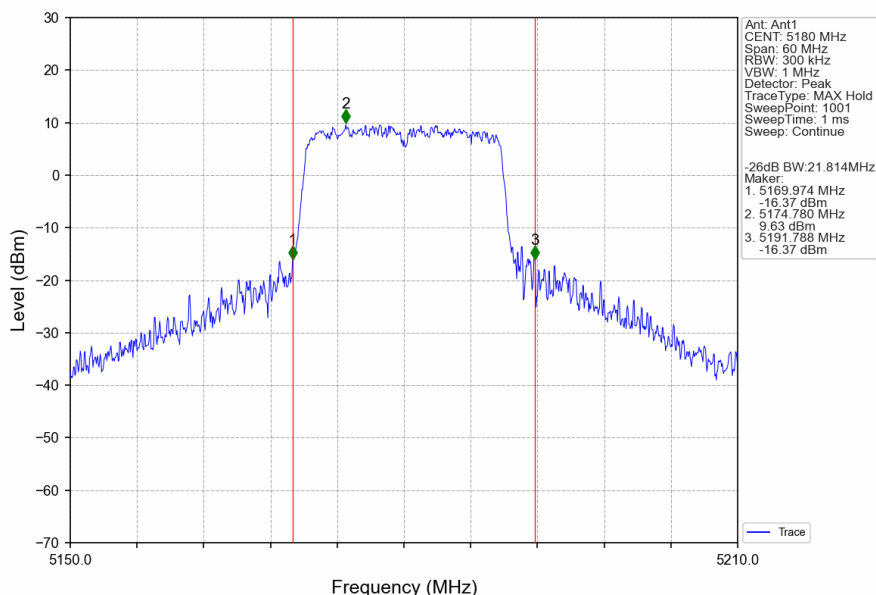
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



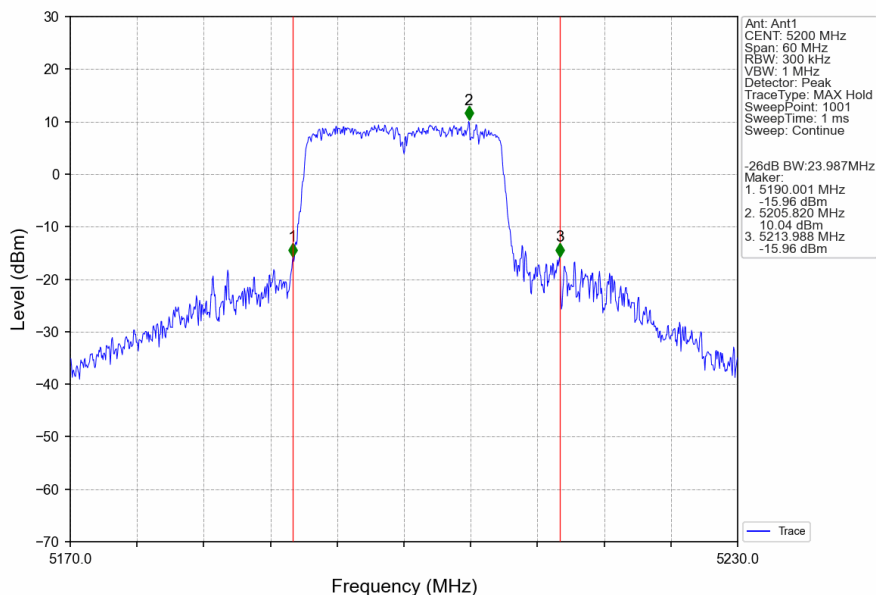
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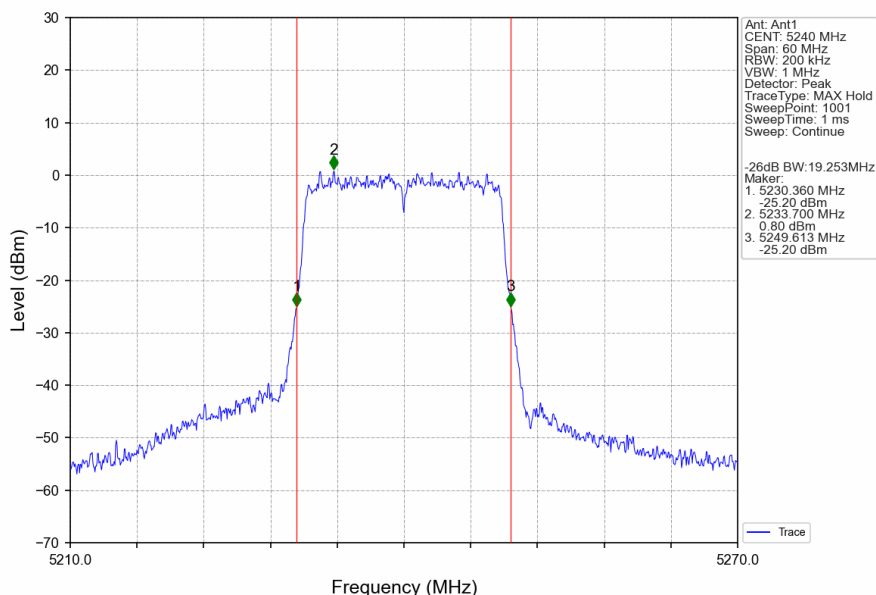
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

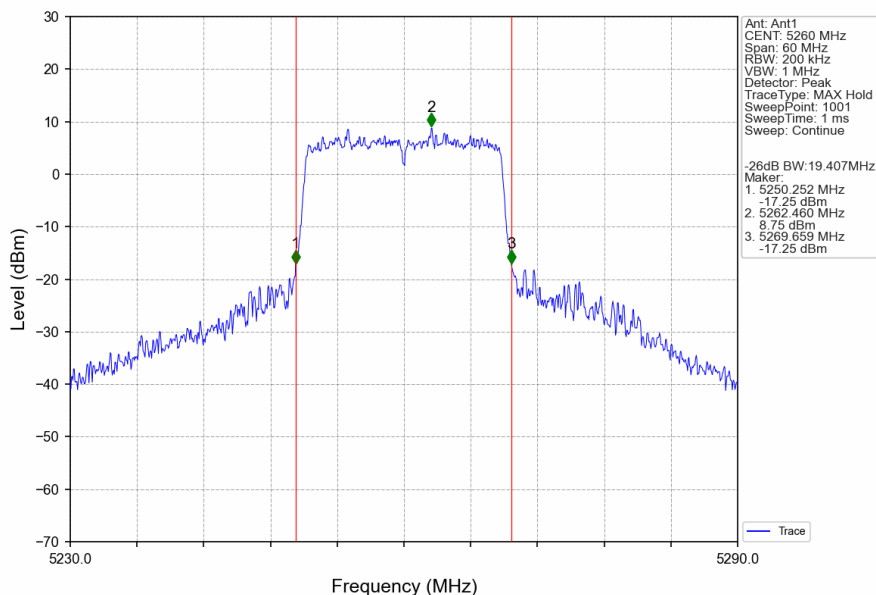


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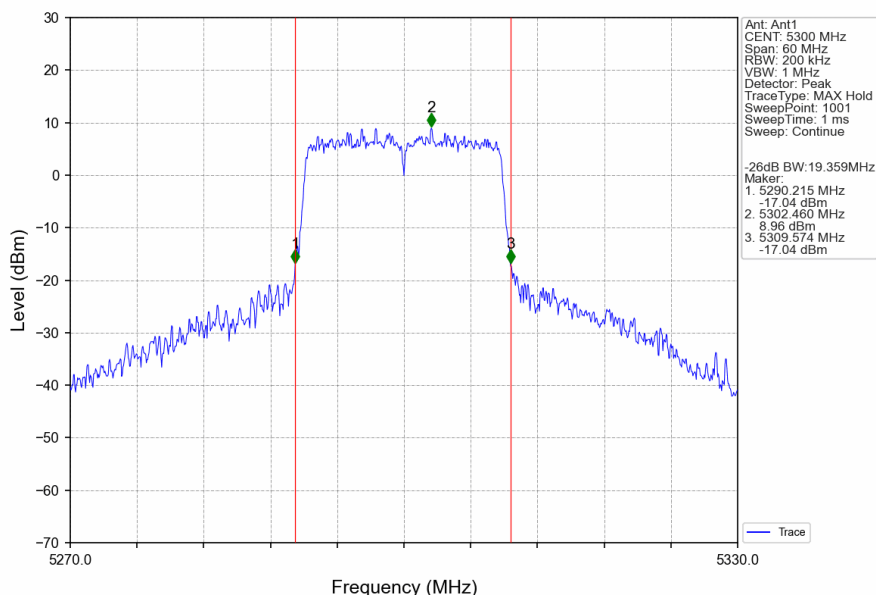
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



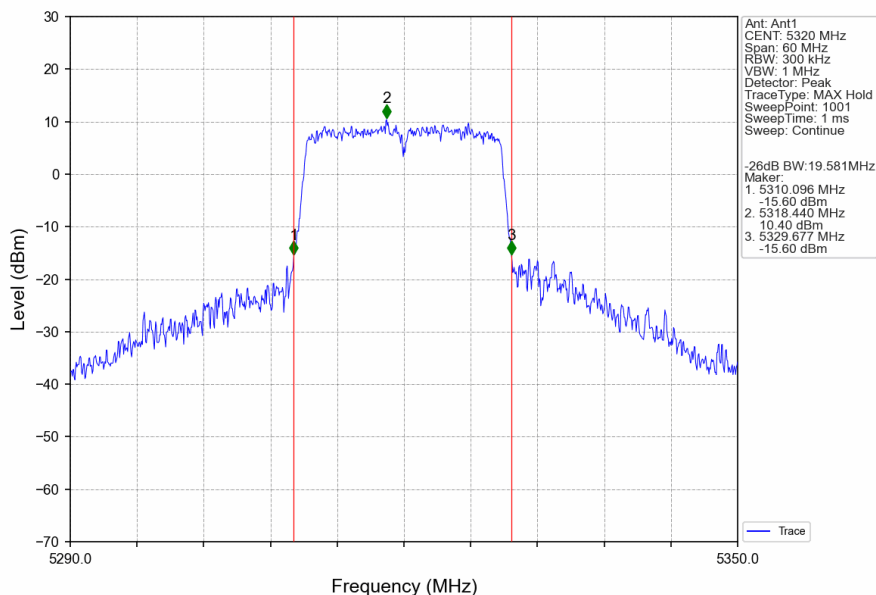
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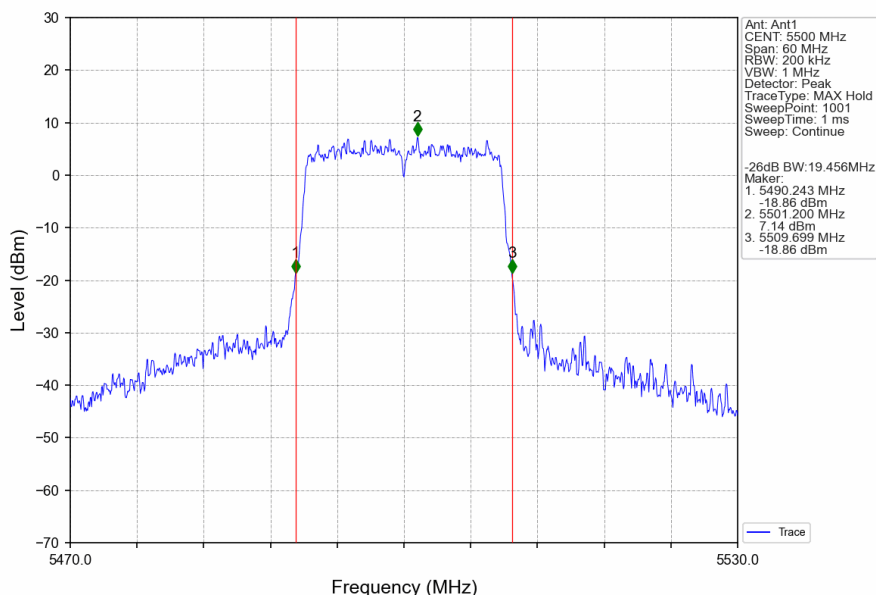
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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



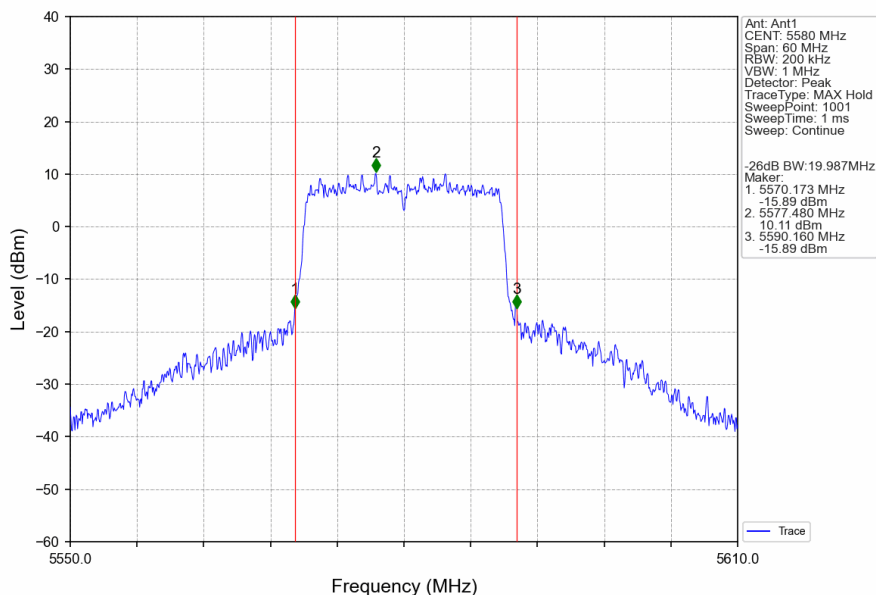
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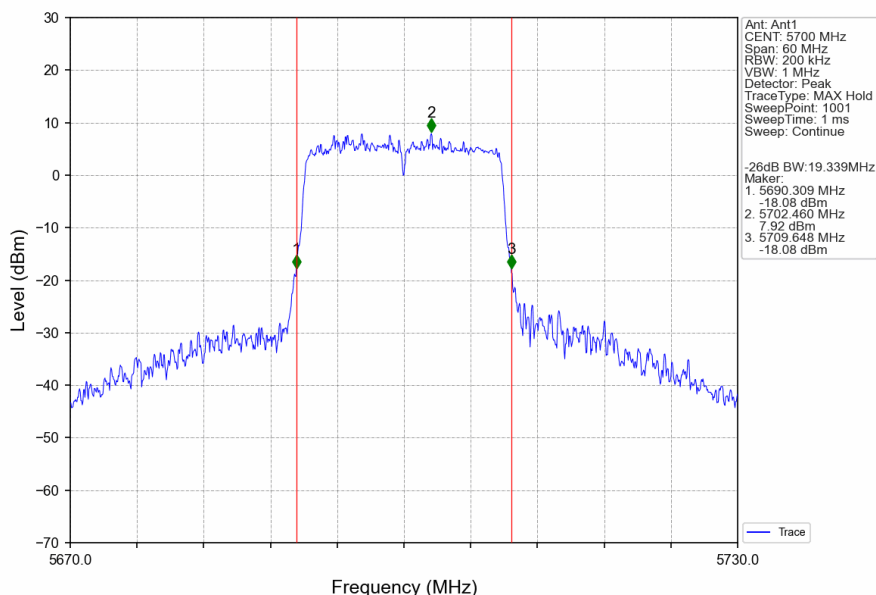
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



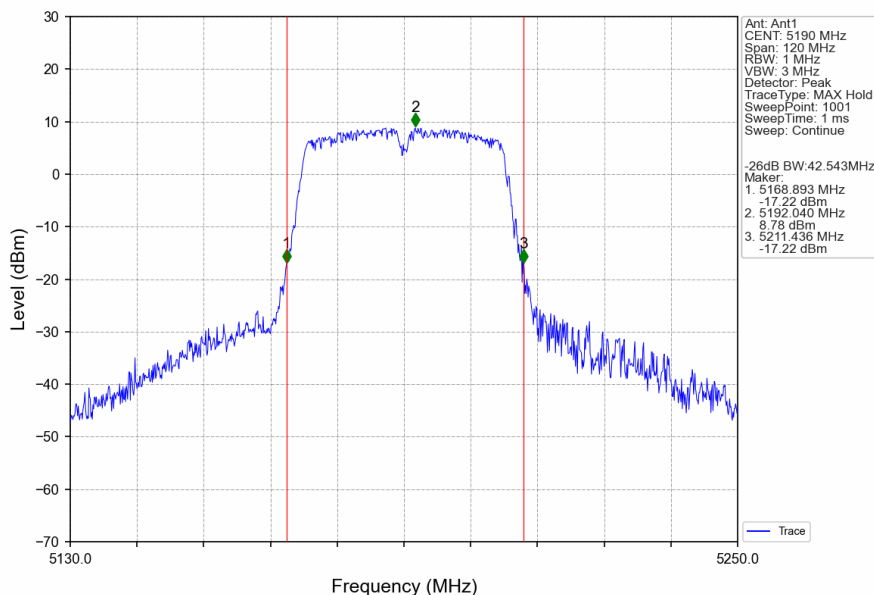
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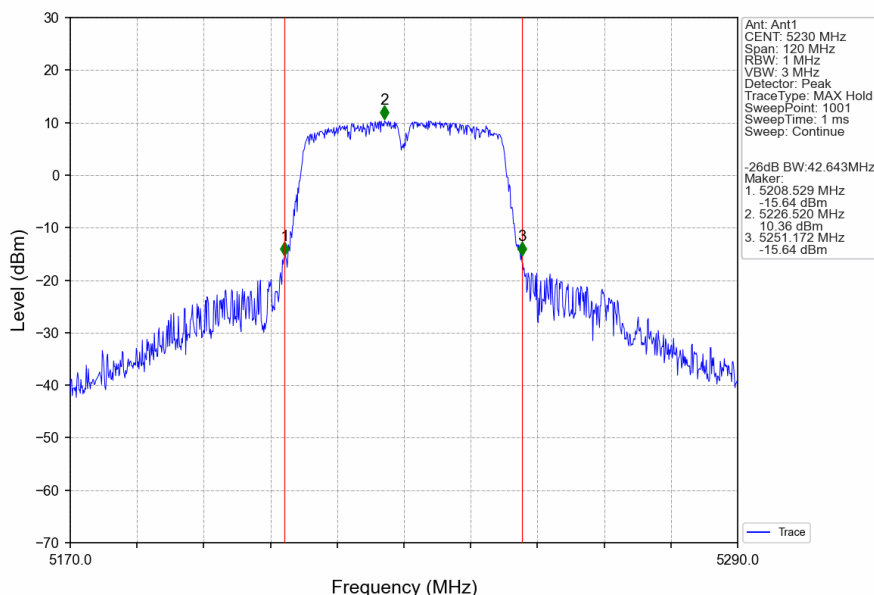
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

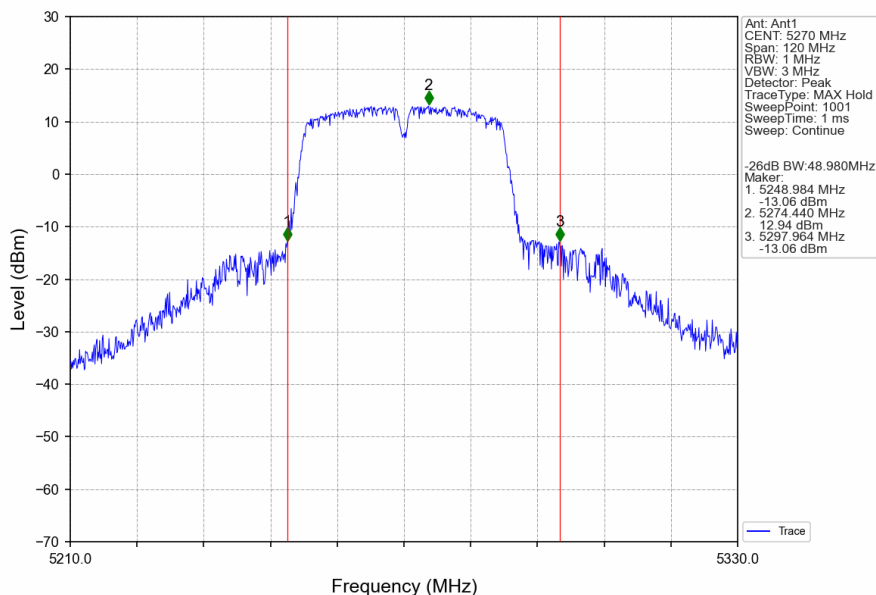


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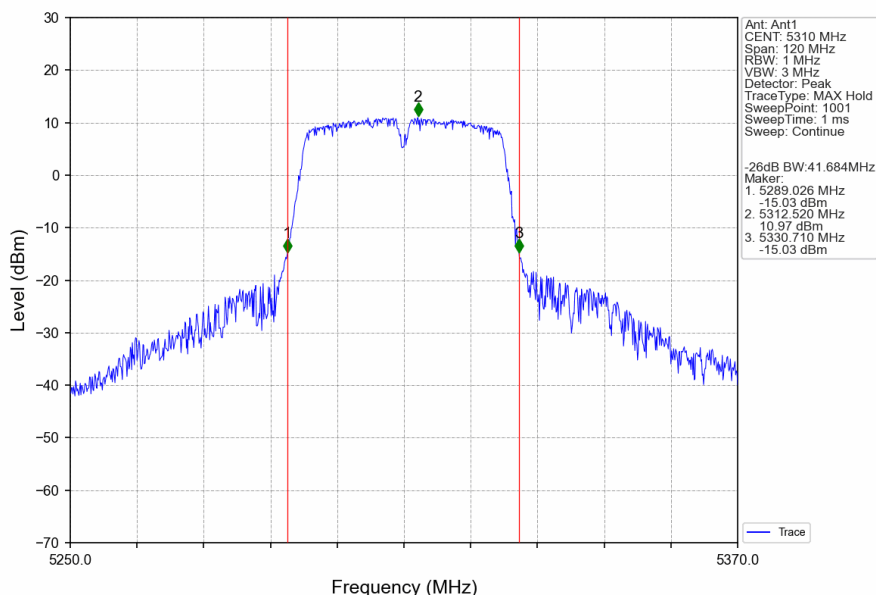
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802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV

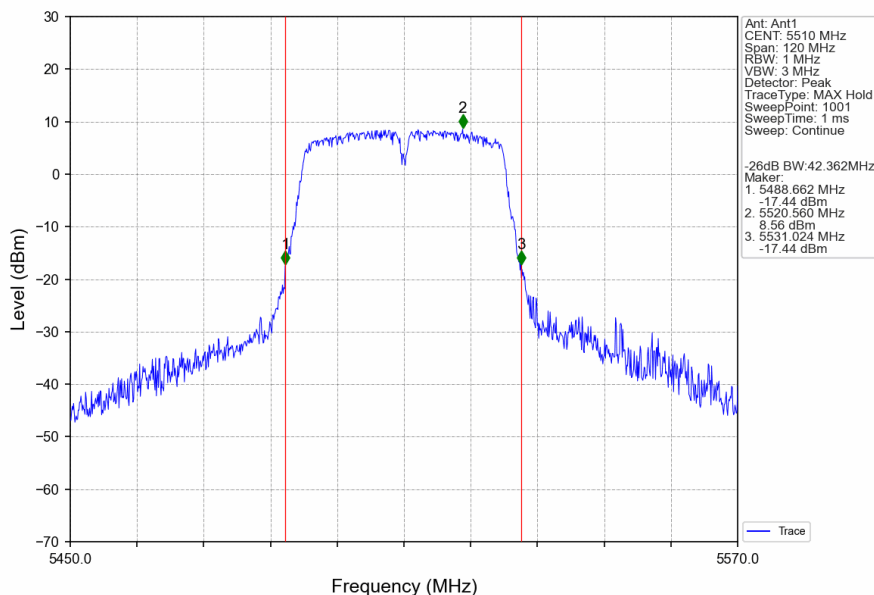


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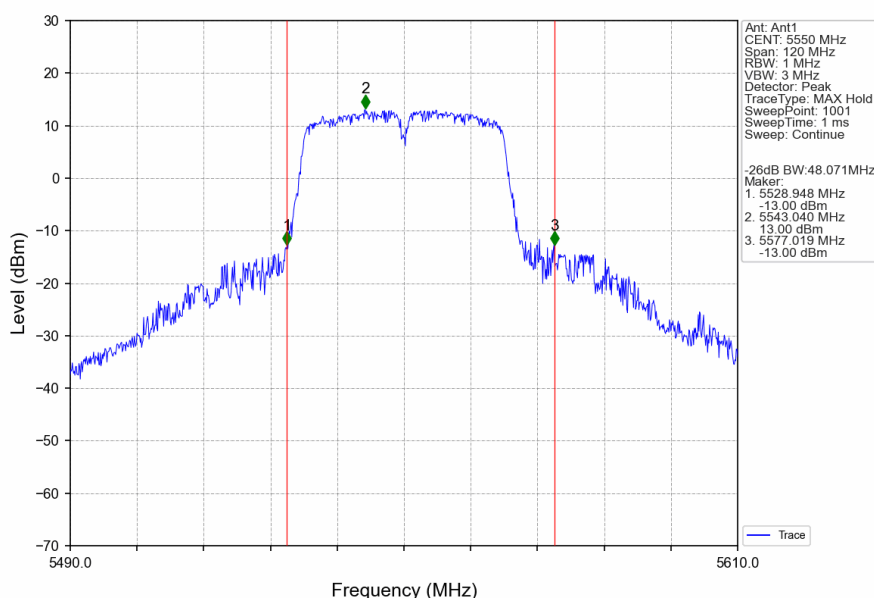
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802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV

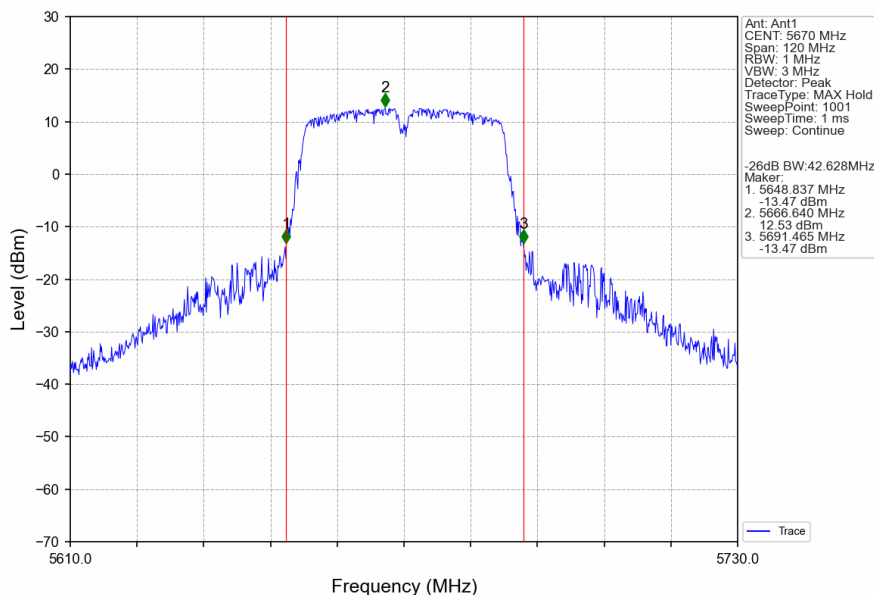


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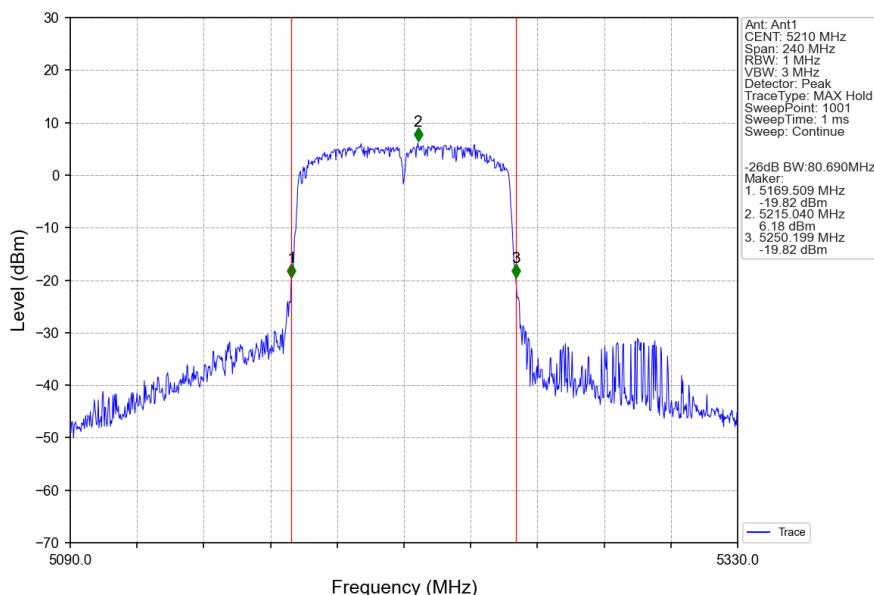
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802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



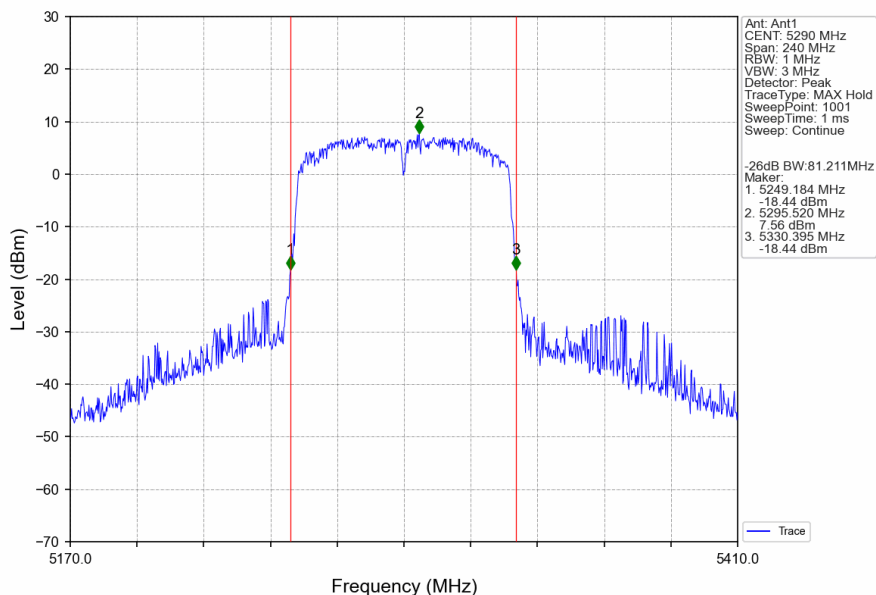
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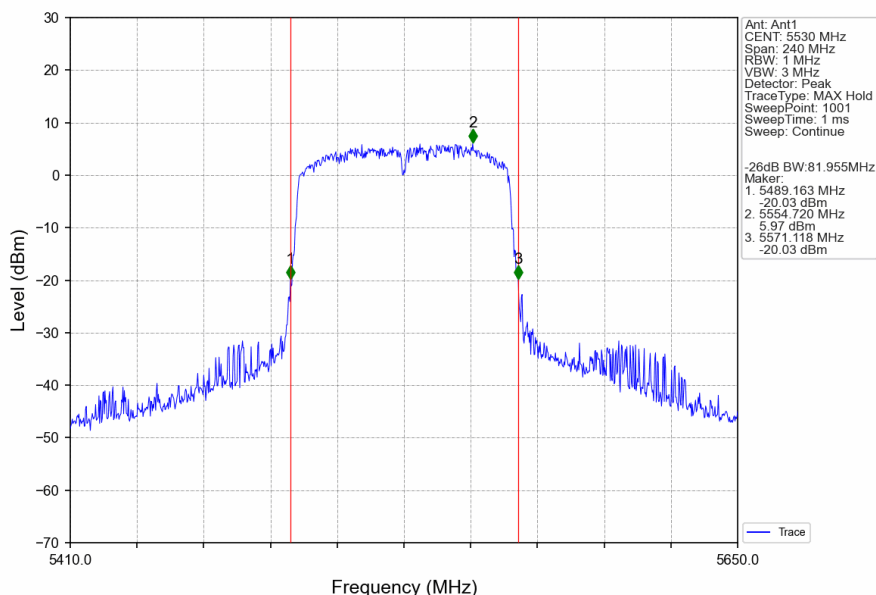
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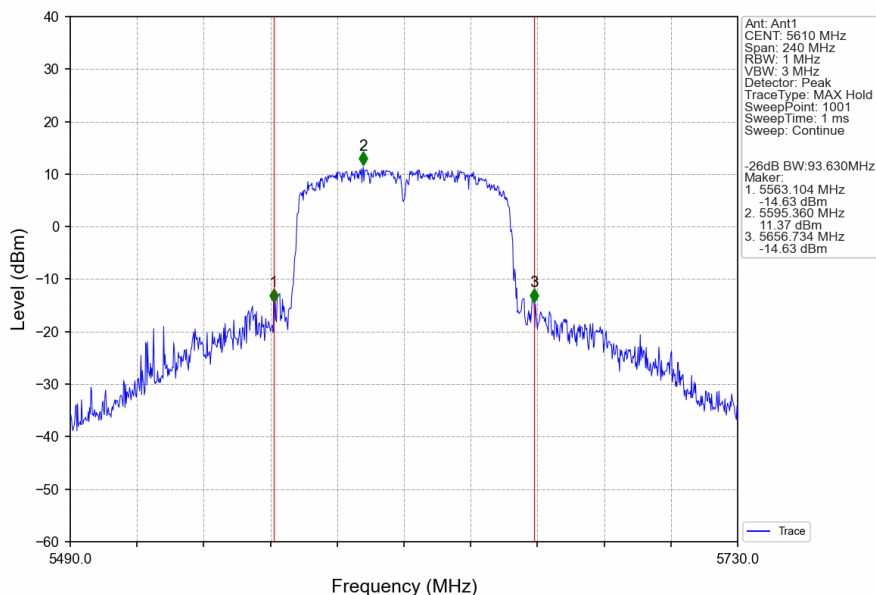
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



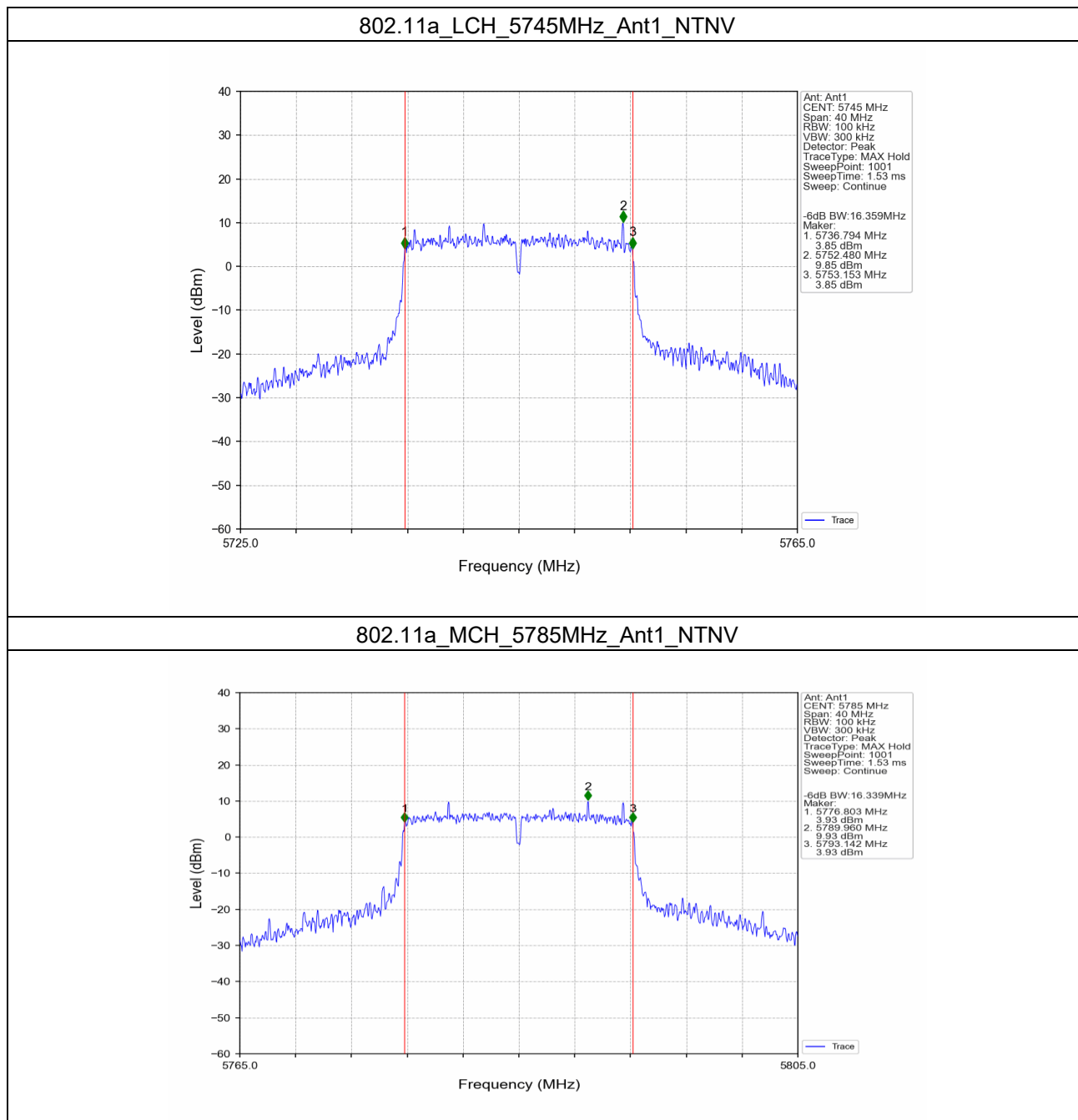
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2.2.3 6dB BW



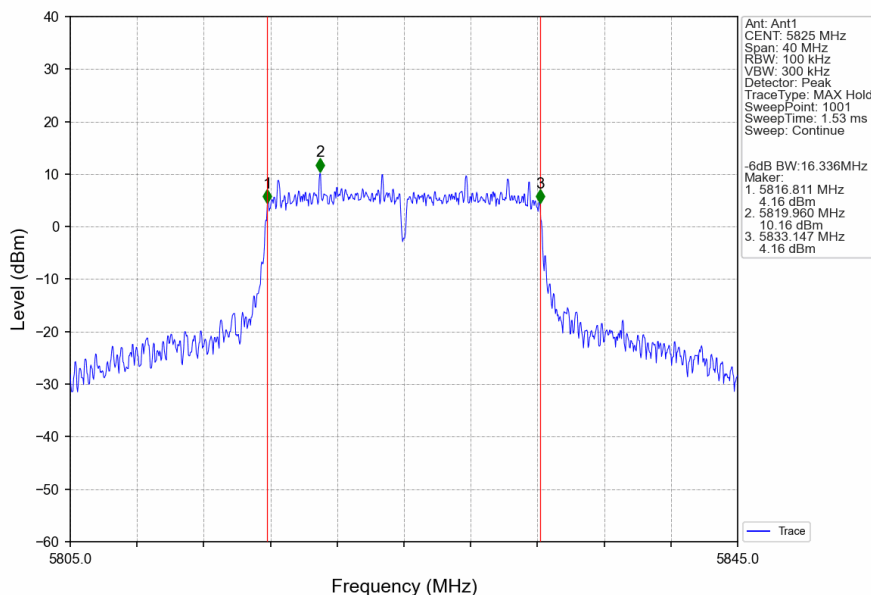
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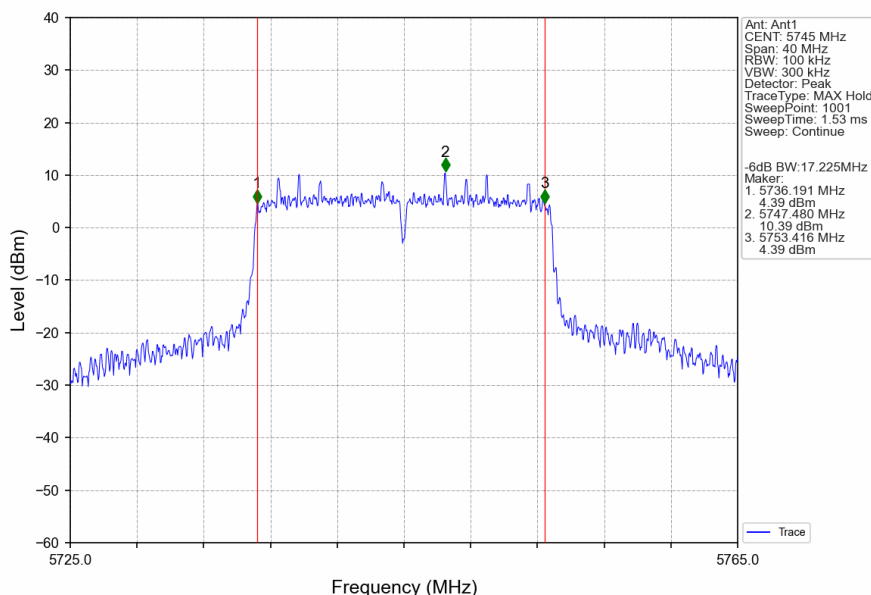
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

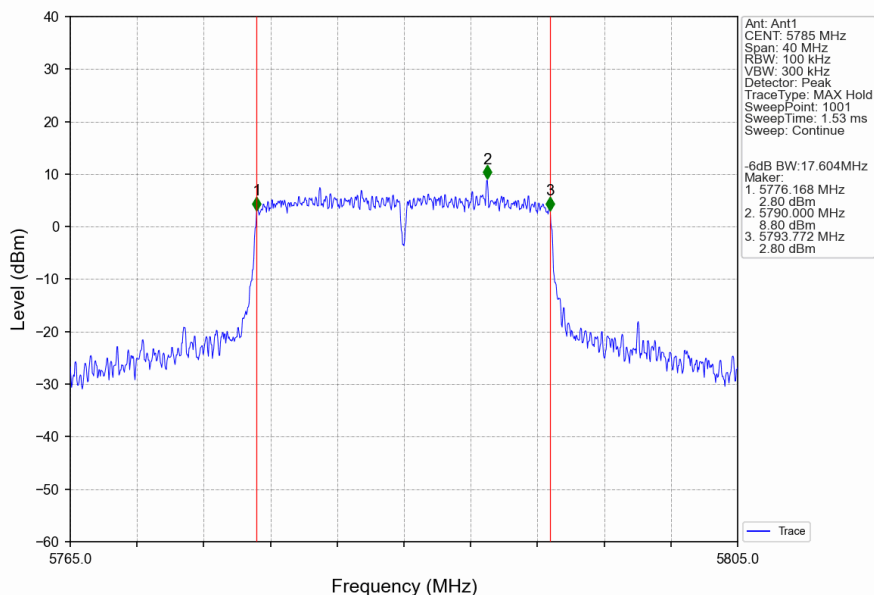


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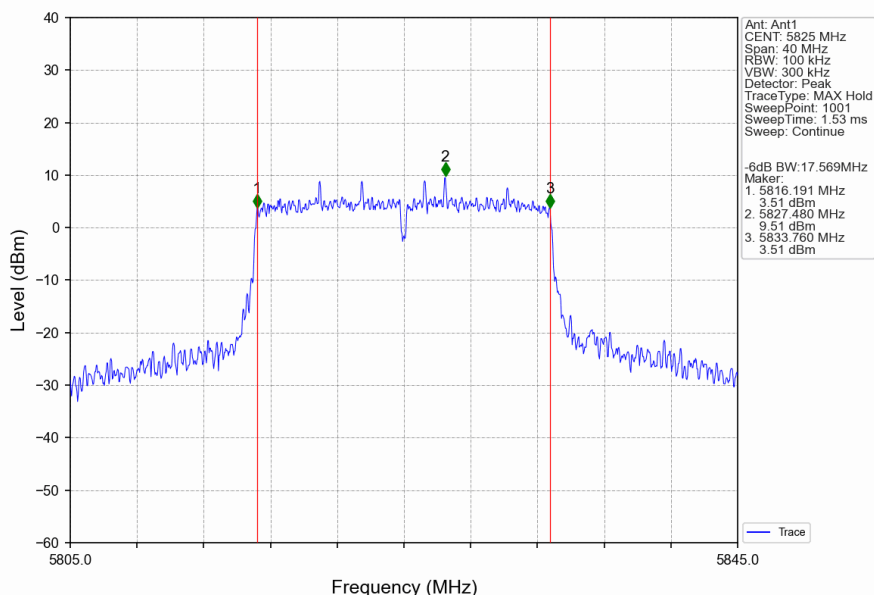
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

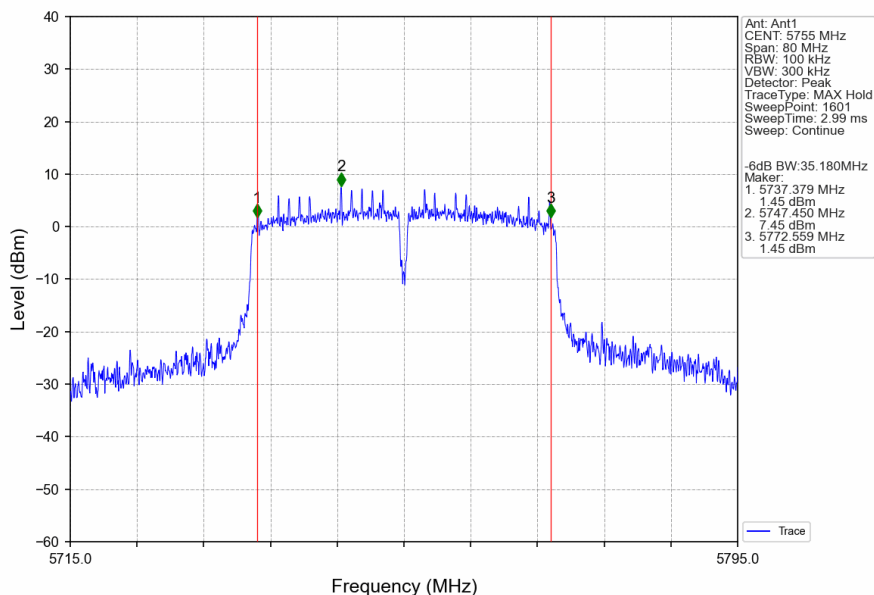


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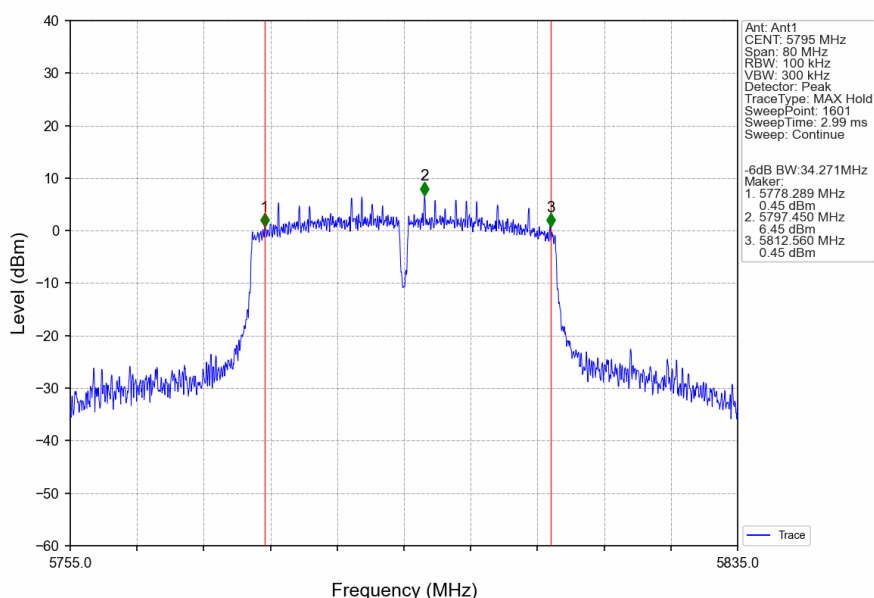
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



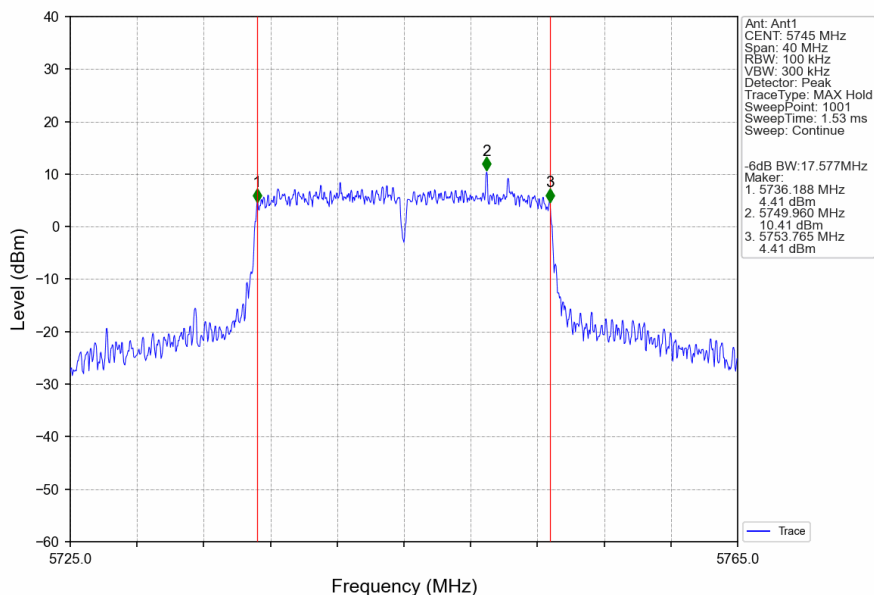
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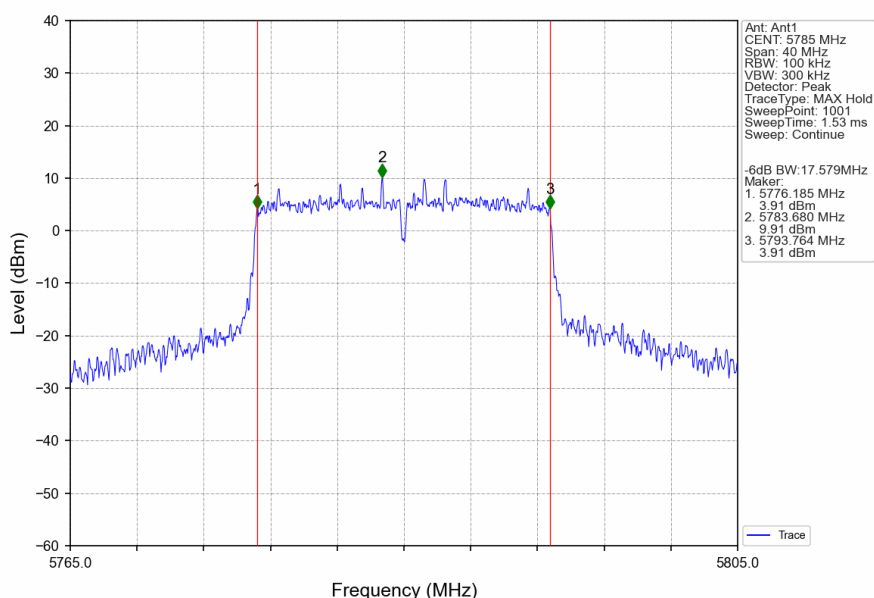
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



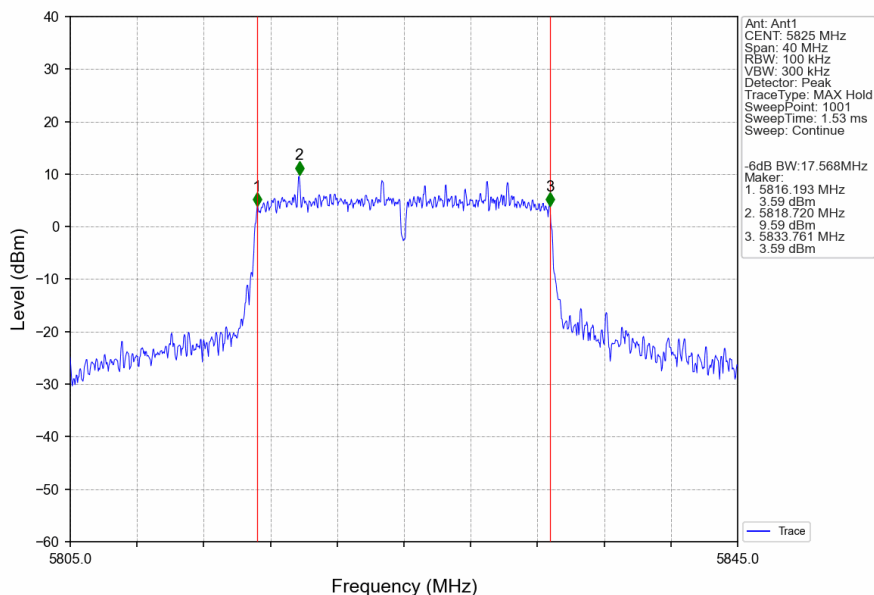
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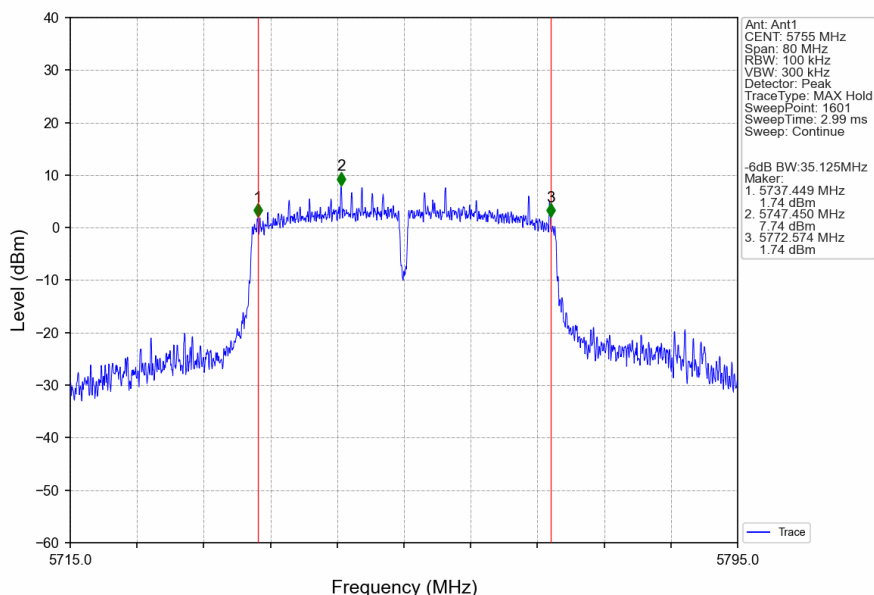
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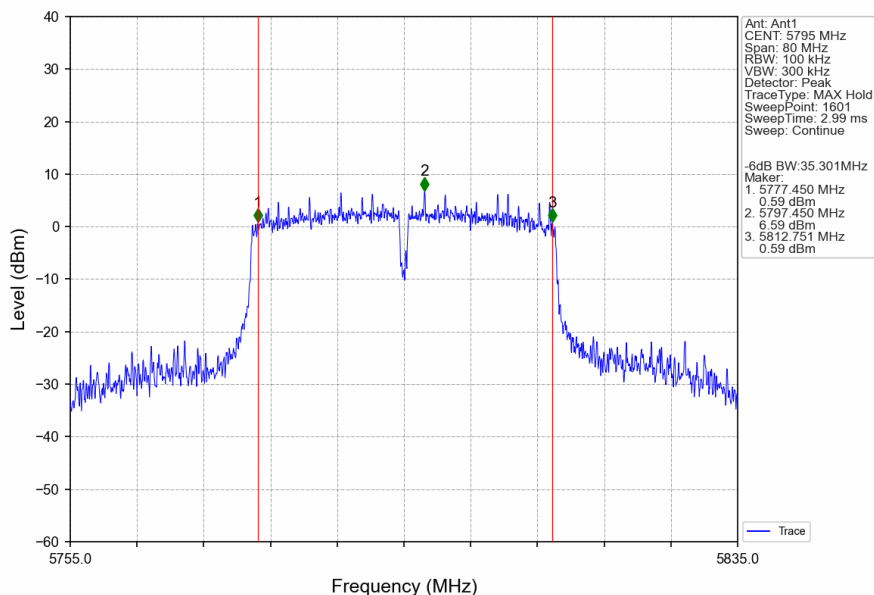
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



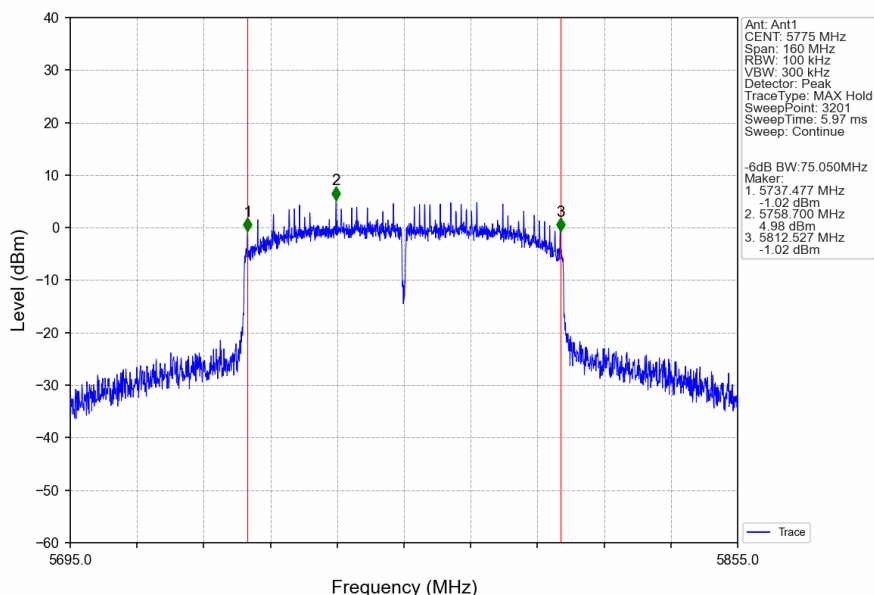
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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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	14.52	14.04	/	<=23.98	Pass
		5200	14.22	14.16	/	<=23.98	Pass
		5240	14.53	14.38	/	<=23.98	Pass
		5260	18.68	18.89	/	<=23.69	Pass
		5300	18.32	18.54	/	<=23.91	Pass
		5320	18.27	18.68	/	<=23.84	Pass
		5500	17.76	17.99	/	<=23.63	Pass
		5580	18.52	18.73	/	<=23.78	Pass
		5700	17.33	17.75	/	<=23.72	Pass
		5745	21.47	21.73	/	<=30	Pass
		5785	21.32	21.90	/	<=30	Pass
		5825	21.33	21.91	/	<=30	Pass
802.11n (HT20)	MIMO	5180	12.06	11.09	14.61	<=23.98	Pass
		5200	11.93	11.08	14.54	<=23.98	Pass
		5240	11.91	11.04	14.51	<=23.98	Pass
		5260	15.41	15.35	18.39	<=23.97	Pass
		5300	15.62	15.42	18.53	<=23.98	Pass
		5320	15.46	15.30	18.39	<=23.98	Pass
		5500	15.52	15.48	18.51	<=23.85	Pass
		5580	15.57	15.84	18.72	<=23.89	Pass
		5700	14.77	15.56	18.19	<=23.87	Pass
		5745	21.27	20.43	23.88	<=30	Pass
		5785	20.83	20.15	23.51	<=30	Pass
		5825	20.53	20.04	23.30	<=30	Pass
802.11n (HT40)	MIMO	5190	13.51	12.52	16.05	<=23.98	Pass
		5230	13.74	12.54	16.19	<=23.98	Pass
		5270	15.58	14.83	18.23	<=23.98	Pass
		5310	15.80	15.29	18.56	<=23.98	Pass
		5510	14.97	14.25	17.64	<=23.98	Pass
		5550	17.87	17.24	20.58	<=23.98	Pass
		5670	17.87	17.21	20.56	<=23.98	Pass
		5755	21.12	20.32	23.75	<=30	Pass
		5795	20.56	20.03	23.31	<=30	Pass



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802.11ac (VHT20)	MIMO	5180	11.68	10.81	14.28	<=23.98	Pass
		5200	11.83	11.08	14.48	<=23.98	Pass
		5240	11.70	11.29	14.51	<=23.98	Pass
		5260	15.83	14.49	18.22	<=23.88	Pass
		5300	15.46	14.29	17.92	<=23.87	Pass
		5320	15.20	14.10	17.70	<=23.92	Pass
		5500	15.72	15.60	18.67	<=23.89	Pass
		5580	15.19	15.52	18.37	<=23.98	Pass
		5700	14.99	15.55	18.29	<=23.86	Pass
		5745	21.59	20.57	24.12	<=30	Pass
		5785	21.23	20.32	23.81	<=30	Pass
		5825	20.79	20.09	23.46	<=30	Pass
802.11ac (VHT40)	MIMO	5190	13.51	12.48	16.04	<=23.98	Pass
		5230	13.64	12.52	16.13	<=23.98	Pass
		5270	16.43	14.98	18.78	<=23.98	Pass
		5310	15.90	15.34	18.64	<=23.98	Pass
		5510	14.74	14.08	17.43	<=23.98	Pass
		5550	17.56	17.82	20.70	<=23.98	Pass
		5670	17.53	17.95	20.76	<=23.98	Pass
		5755	21.47	20.72	24.12	<=30	Pass
802.11ac (VHT80)	MIMO	5795	20.96	20.27	23.64	<=30	Pass
		5210	13.43	12.27	15.90	<=23.98	Pass
		5290	16.46	15.30	18.93	<=23.98	Pass
		5530	14.88	14.18	17.55	<=23.98	Pass
		5610	18.08	17.35	20.74	<=23.98	Pass
	MIMO	5775	21.60	20.85	24.25	<=30	Pass

Note1: Antenna Gain:

- Band: 2C+3x Ant1: 3.93dBi;
- Band: 1 Ant1: 3.93dBi;
- Band: 3 Ant1: 3.93dBi;
- Band: 2A Ant1: 3.93dBi;
- Band: 2C Ant1: 3.93dBi;
- Band: 1+2A Ant1: 3.93dBi;
- Band: 2C+3 Ant1: 3.93dBi;
- Band: 1+2A Ant2: 3.93dBi;
- Band: 2C+3 Ant2: 3.93dBi;
- Band: 2C+3x Ant2: 3.93dBi;
- Band: 1 Ant2: 3.93dBi;
- Band: 3 Ant2: 3.93dBi;
- Band: 2A Ant2: 3.93dBi;
- Band: 2C Ant2: 3.93dBi;

Note2: Directional Gain: 3.93dBi



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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	3.10	2.72	/	<=11.00	Pass
		5200	2.84	2.78	/	<=11.00	Pass
		5240	3.07	3.00	/	<=11.00	Pass
		5260	7.29	7.56	/	<=11.00	Pass
		5300	6.93	7.17	/	<=11.00	Pass
		5320	6.93	7.29	/	<=11.00	Pass
		5500	6.42	6.64	/	<=11.00	Pass
		5580	7.13	7.35	/	<=11.00	Pass
		5700	5.98	6.41	/	<=11.00	Pass
802.11n (HT20)	MIMO	5180	0.32	-0.59	2.87	<=10.06	Pass
		5200	0.22	-0.56	2.85	<=10.06	Pass
		5240	0.23	-0.60	2.84	<=10.06	Pass
		5260	3.65	3.79	6.72	<=10.06	Pass
		5300	3.89	3.76	6.83	<=10.06	Pass
		5320	3.71	3.66	6.68	<=10.06	Pass
		5500	3.81	3.87	6.84	<=10.06	Pass
		5580	3.78	4.18	6.99	<=10.06	Pass
		5700	3.15	3.98	6.57	<=10.06	Pass
802.11n (HT40)	MIMO	5190	-0.89	-1.84	1.64	<=10.06	Pass
		5230	-0.71	-1.84	1.73	<=10.06	Pass
		5270	1.21	0.46	3.85	<=10.06	Pass
		5310	1.42	0.98	4.20	<=10.06	Pass
		5510	0.57	-0.17	3.21	<=10.06	Pass
		5550	3.55	2.96	6.27	<=10.06	Pass
		5670	3.46	2.88	6.17	<=10.06	Pass
802.11ac (VHT20)	MIMO	5180	0.00	-0.82	2.59	<=10.06	Pass
		5200	0.10	-0.60	2.74	<=10.06	Pass
		5240	0.06	-0.35	2.86	<=10.06	Pass
		5260	3.99	2.81	6.41	<=10.06	Pass
		5300	3.76	2.66	6.24	<=10.06	Pass
		5320	3.57	2.48	6.03	<=10.06	Pass
		5500	3.98	3.94	6.94	<=10.06	Pass



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		5580	3.51	3.96	6.73	<=10.06	Pass
		5700	3.30	3.98	6.64	<=10.06	Pass
802.11ac (VHT40)	MIMO	5190	-0.97	-1.87	1.59	<=10.06	Pass
		5230	-0.82	-1.83	1.70	<=10.06	Pass
		5270	2.03	0.59	4.35	<=10.06	Pass
		5310	1.48	1.01	4.26	<=10.06	Pass
		5510	0.41	-0.28	3.06	<=10.06	Pass
		5550	3.16	3.48	6.32	<=10.06	Pass
		5670	3.08	3.51	6.30	<=10.06	Pass
802.11ac (VHT80)	MIMO	5210	-4.00	-5.13	-1.52	<=10.06	Pass
		5290	-0.95	-2.12	1.51	<=10.06	Pass
		5530	-2.33	-3.03	0.34	<=10.06	Pass
		5610	0.72	0.06	3.41	<=10.06	Pass

Note1: Antenna Gain:

- Band: 2C+3 Ant1: 3.93dBi;
- Band: 2C+3x Ant1: 3.93dBi;
- Band: 1 Ant1: 3.93dBi;
- Band: 3 Ant1: 3.93dBi;
- Band: 2A Ant1: 3.93dBi;
- Band: 2C Ant1: 3.93dBi;
- Band: 1+2A Ant1: 3.93dBi;
- Band: 2C+3x Ant2: 3.93dBi;
- Band: 1 Ant2: 3.93dBi;
- Band: 3 Ant2: 3.93dBi;
- Band: 2A Ant2: 3.93dBi;
- Band: 2C Ant2: 3.93dBi;
- Band: 1+2A Ant2: 3.93dBi;
- Band: 2C+3 Ant2: 3.93dBi;

Note2: Directional Gain: Band1: 6.94dBi, Band2A: 6.94dBi, Band2C: 6.94dBi, Band3: 6.94dBi



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SZEMC-TRF-01 Rev. A/2

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4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5745	7.29	7.56	/	<=30	Pass
		5785	7.25	7.82	/	<=30	Pass
		5825	7.15	7.72	/	<=30	Pass
802.11n (HT20)	MIMO	5745	6.69	5.92	9.31	<=29.06	Pass
		5785	6.32	5.72	9.04	<=29.06	Pass
		5825	6.00	5.56	8.77	<=29.06	Pass
802.11n (HT40)	MIMO	5755	3.85	3.15	6.52	<=29.06	Pass
		5795	3.42	2.93	6.17	<=29.06	Pass
802.11ac (VHT20)	MIMO	5745	7.03	6.00	9.51	<=29.06	Pass
		5785	6.80	5.92	9.38	<=29.06	Pass
		5825	6.27	5.52	8.90	<=29.06	Pass
802.11ac (VHT40)	MIMO	5755	4.27	3.57	6.94	<=29.06	Pass
		5795	3.86	3.11	6.48	<=29.06	Pass
802.11ac (VHT80)	MIMO	5775	1.62	0.83	4.26	<=29.06	Pass

Note1:

		Antenna	Gain:
-	Band:	2C+3	Ant1: 3.93dBi;
-	Band:	2C+3x	Ant1: 3.93dBi;
-	Band:	1	Ant1: 3.93dBi;
-	Band:	3	Ant1: 3.93dBi;
-	Band:	2A	Ant1: 3.93dBi;
-	Band:	2C	Ant1: 3.93dBi;
-	Band:	1+2A	Ant1: 3.93dBi;
-	Band:	3	Ant2: 3.93dBi;
-	Band:	2A	Ant2: 3.93dBi;
-	Band:	2C	Ant2: 3.93dBi;
-	Band:	1+2A	Ant2: 3.93dBi;
-	Band:	2C+3	Ant2: 3.93dBi;
-	Band:	2C+3x	Ant2: 3.93dBi;

- Band: 1 Ant2: 3.93dBi;

Note2: Directional Gain: Band1: 6.94dBi, Band2A: 6.94dBi, Band2C: 6.94dBi, Band3: 6.94dBi



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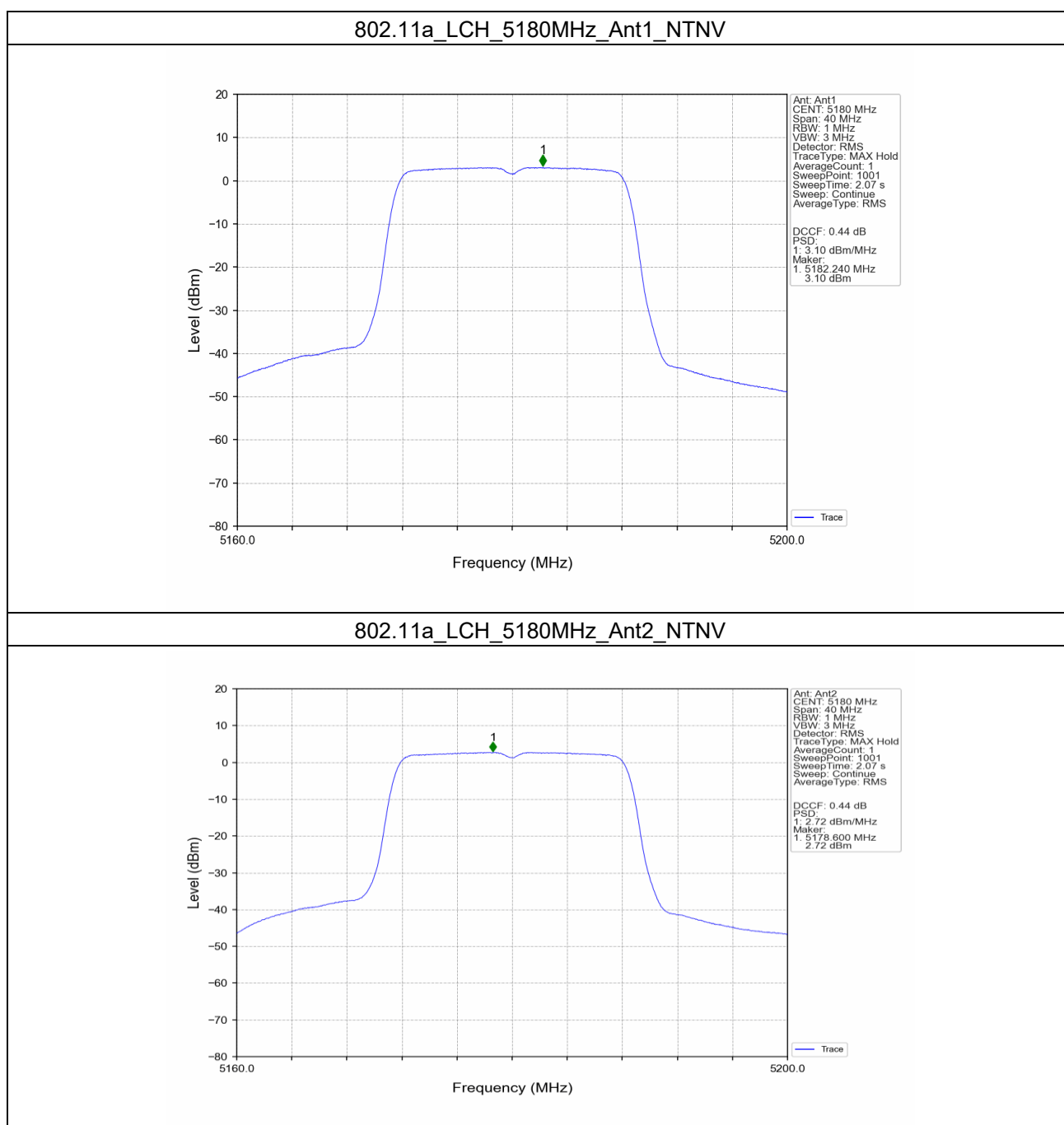
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4.2 Test Graph

4.2.1 PSD

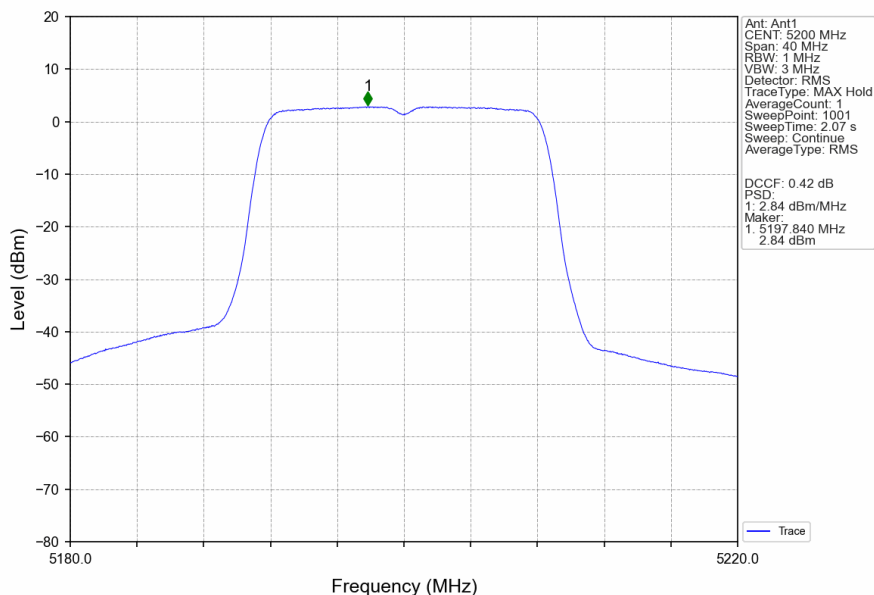


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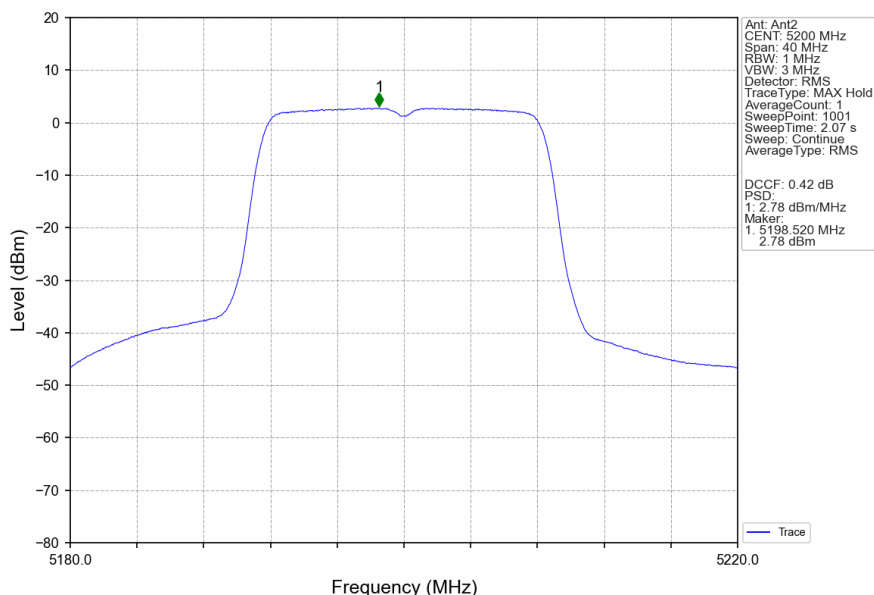
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802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV

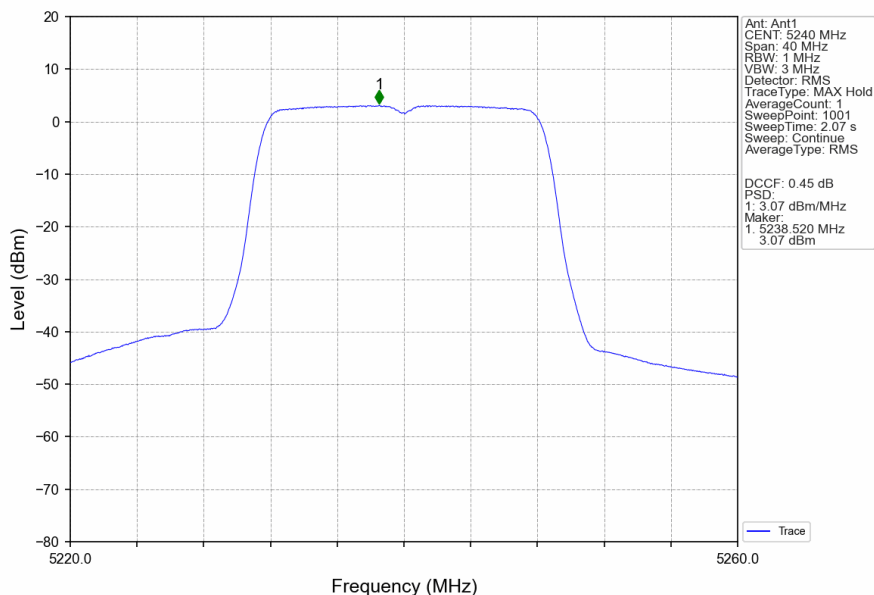


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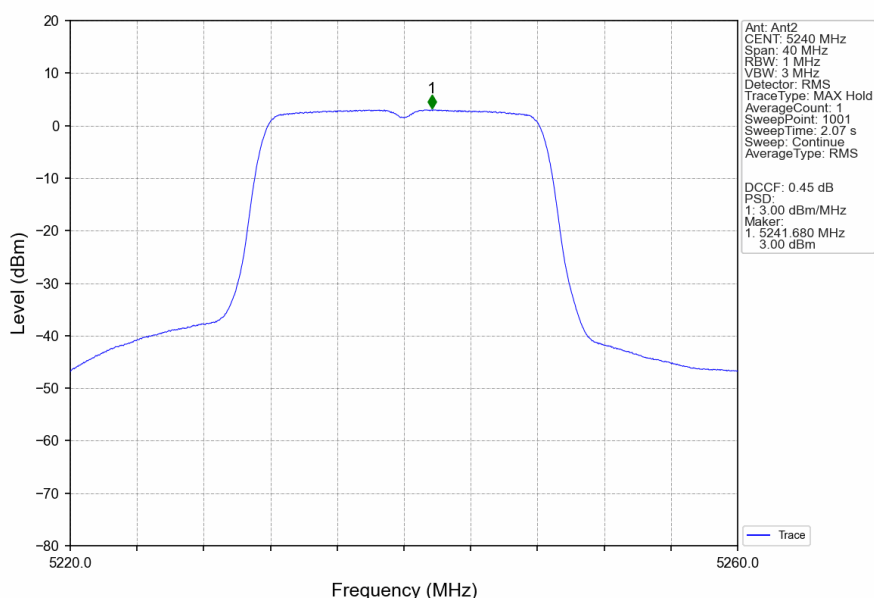
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV



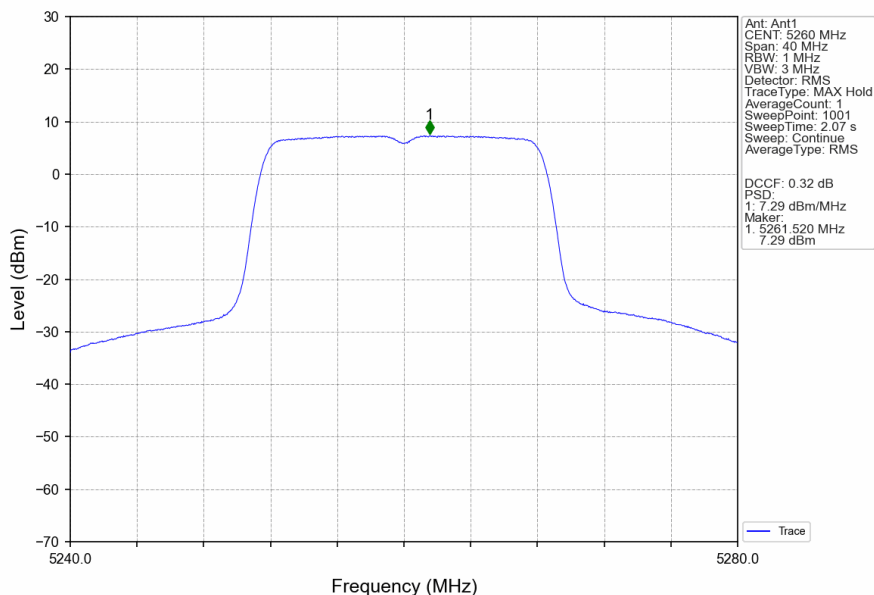
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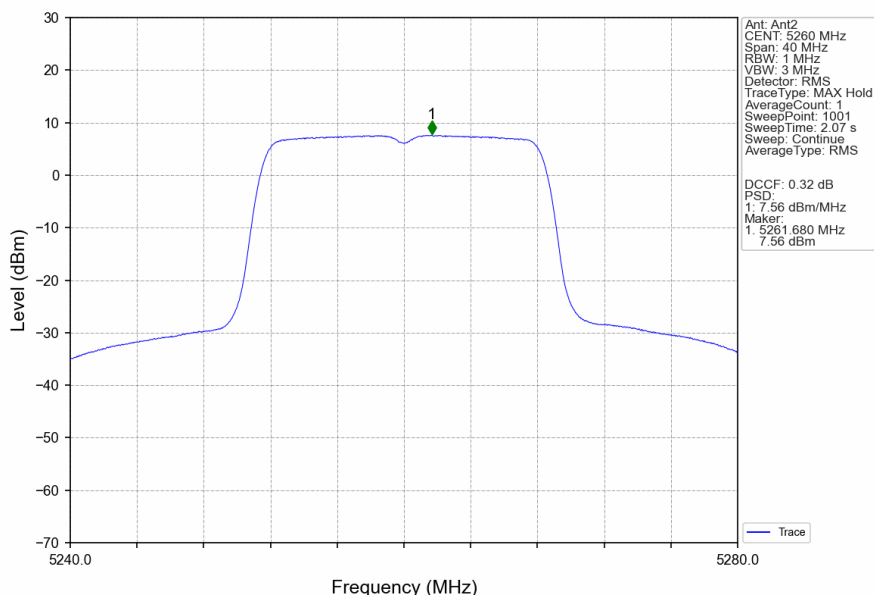
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802.11a_LCH_5260MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant2_NTNV



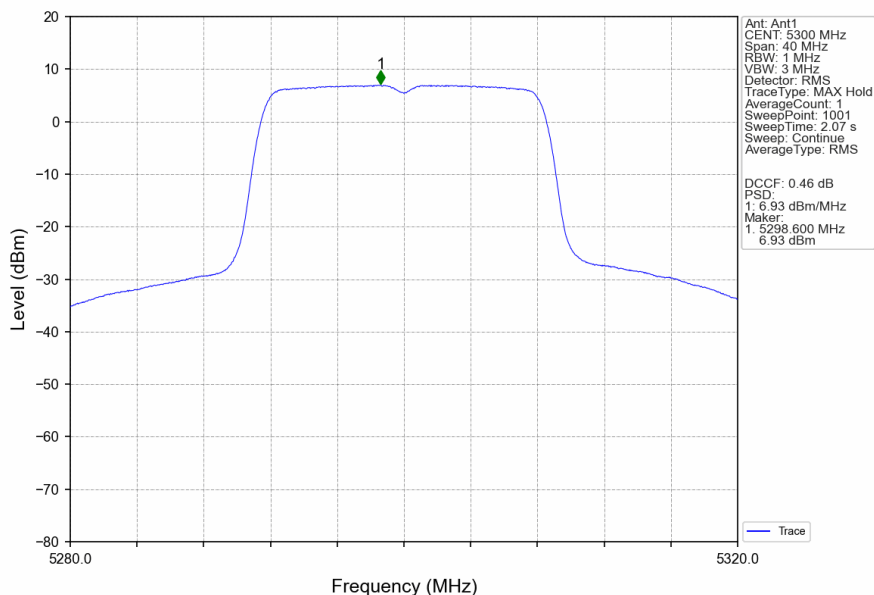
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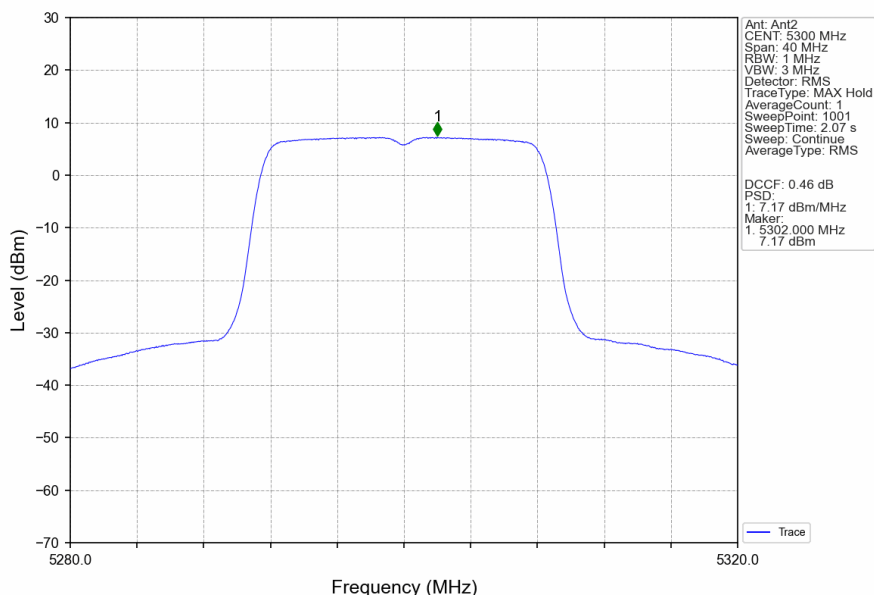
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_MCH_5300MHz_Ant2_NTNV



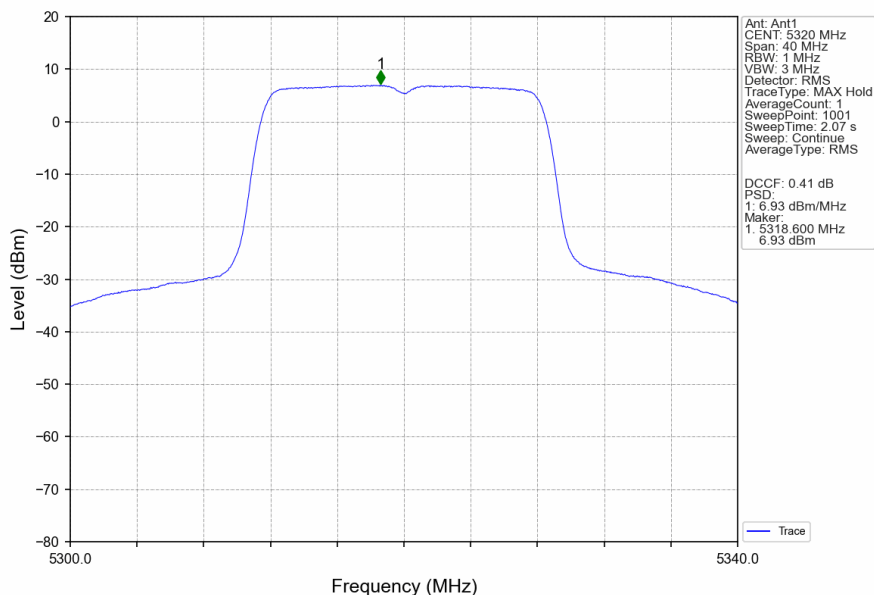
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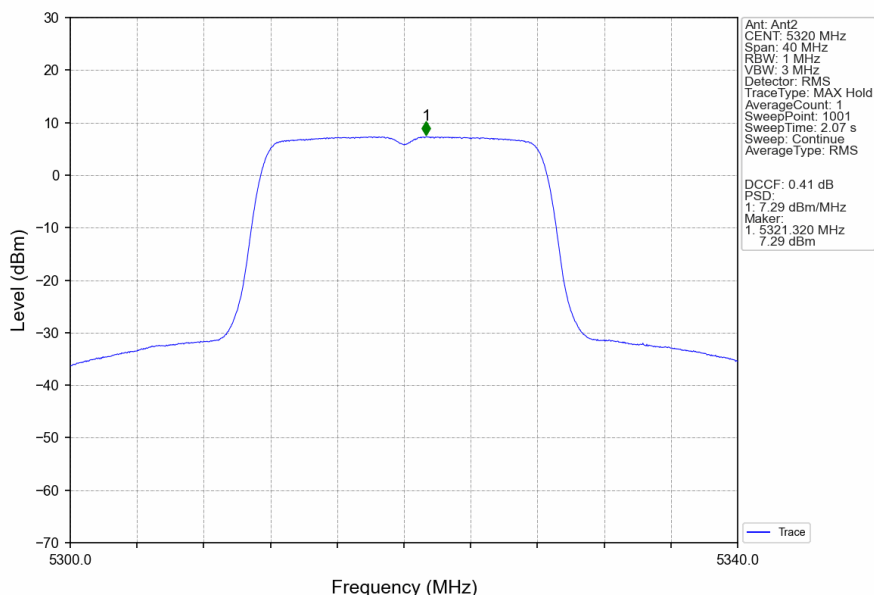
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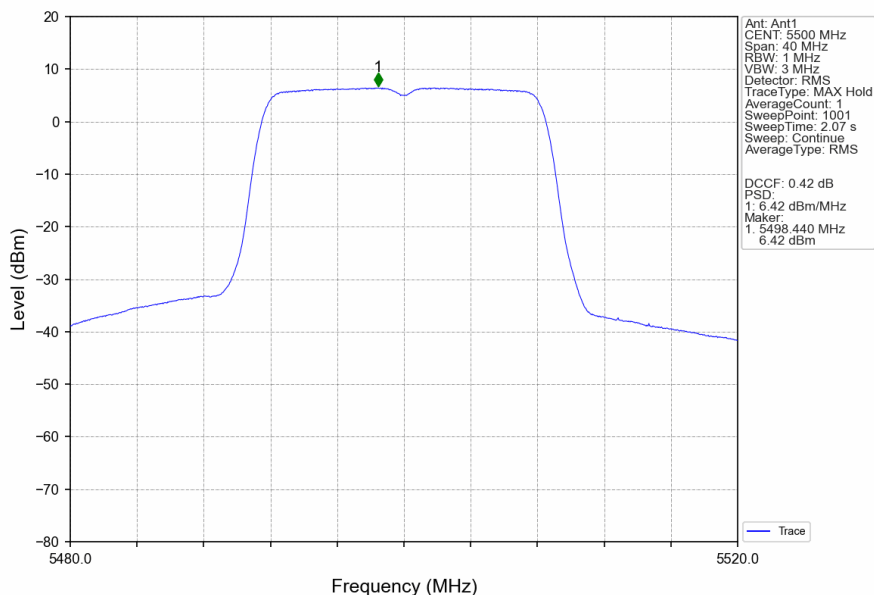
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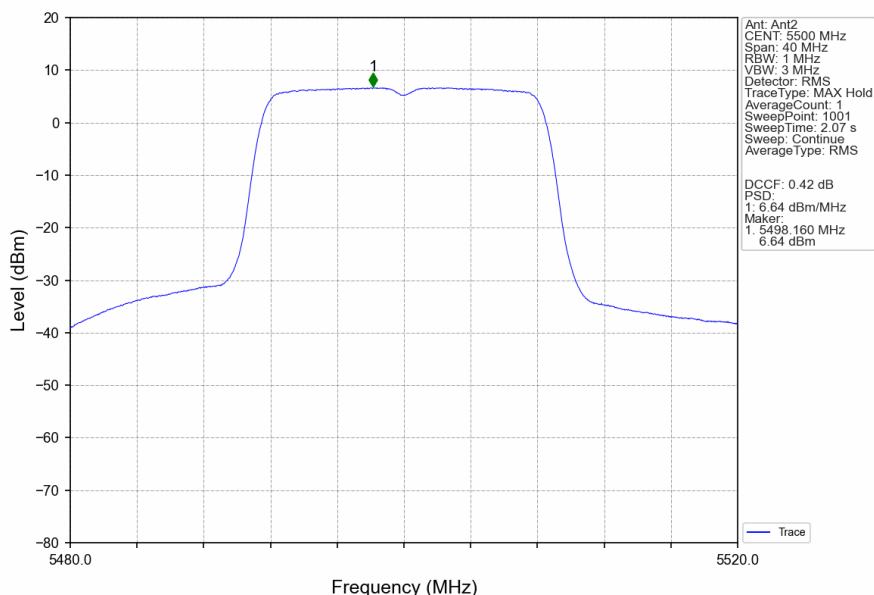
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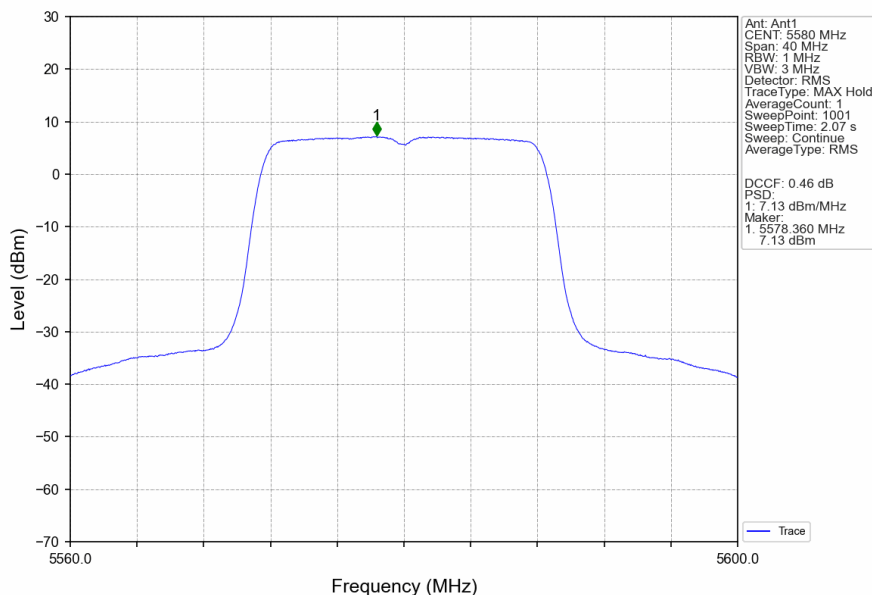


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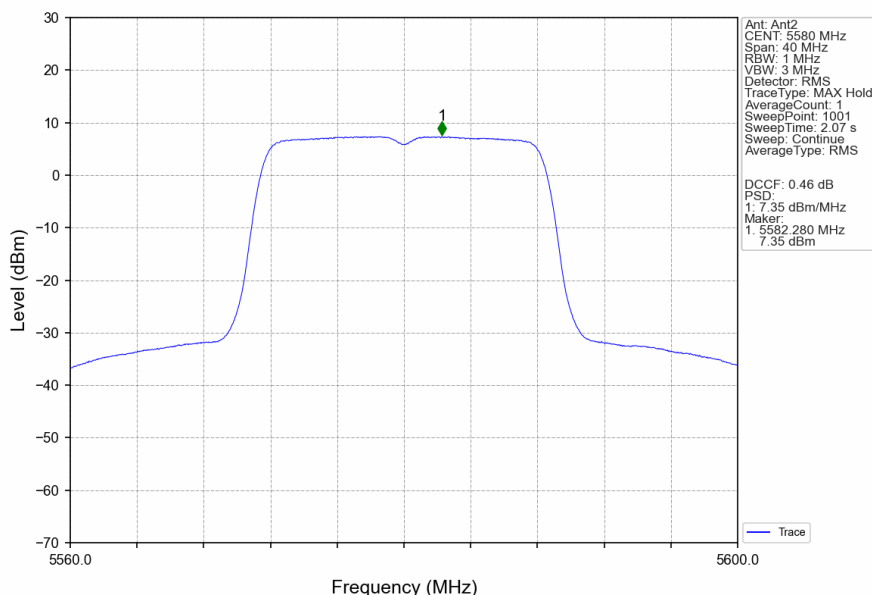
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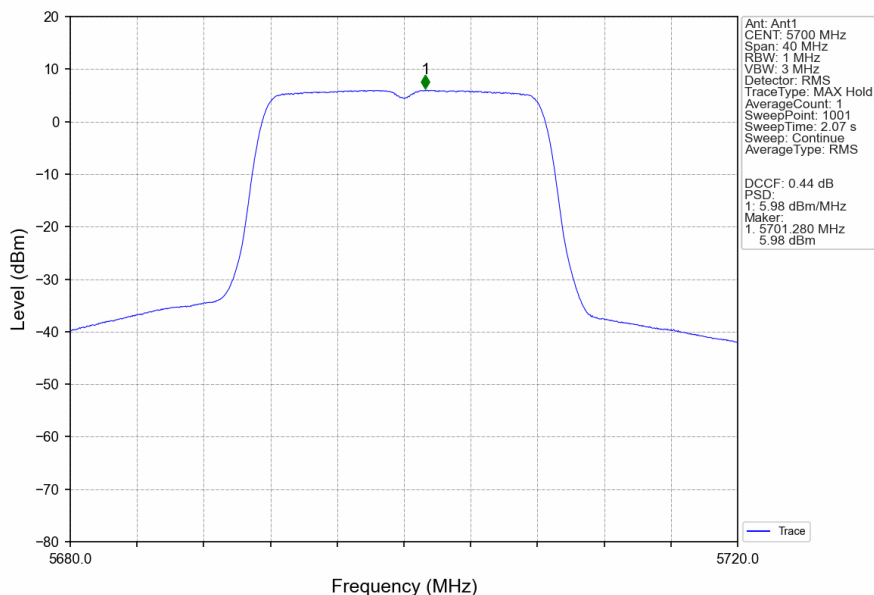
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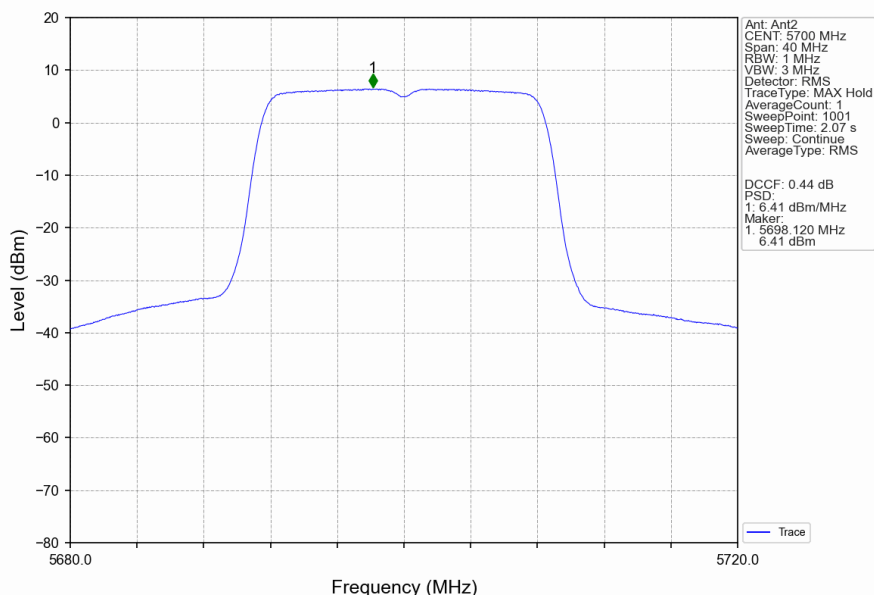
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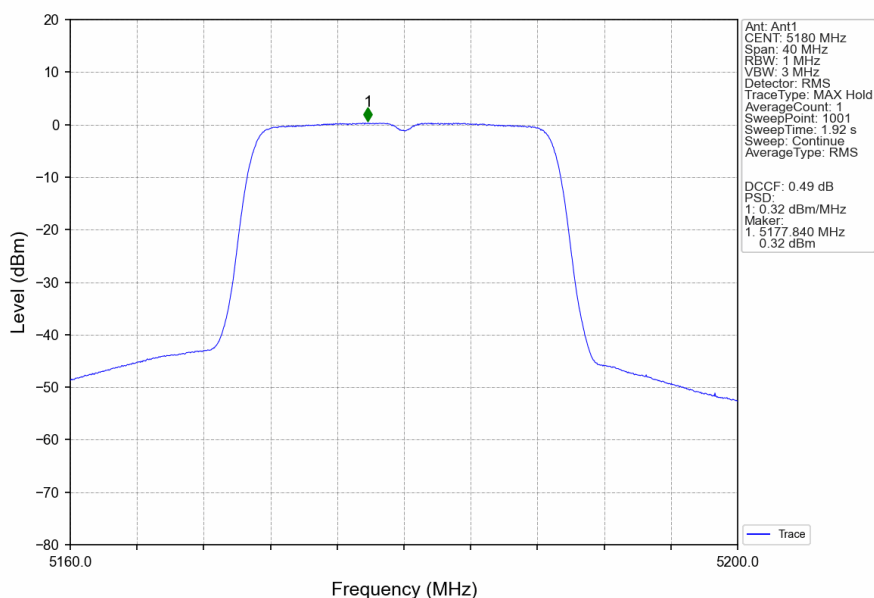
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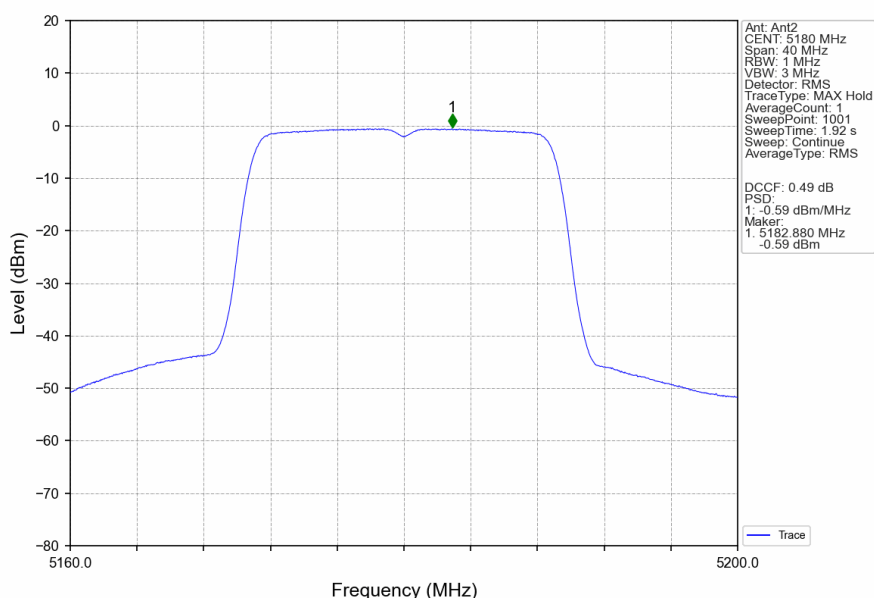
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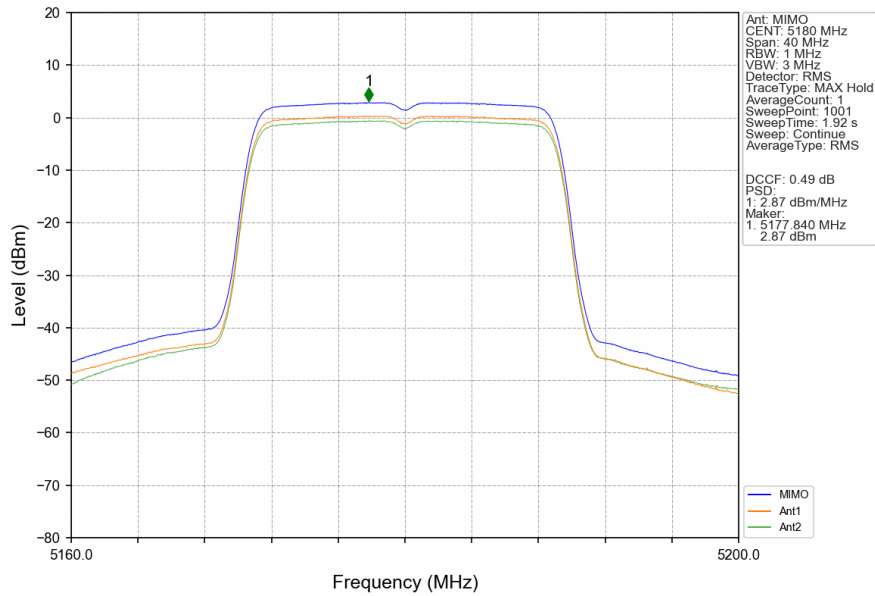
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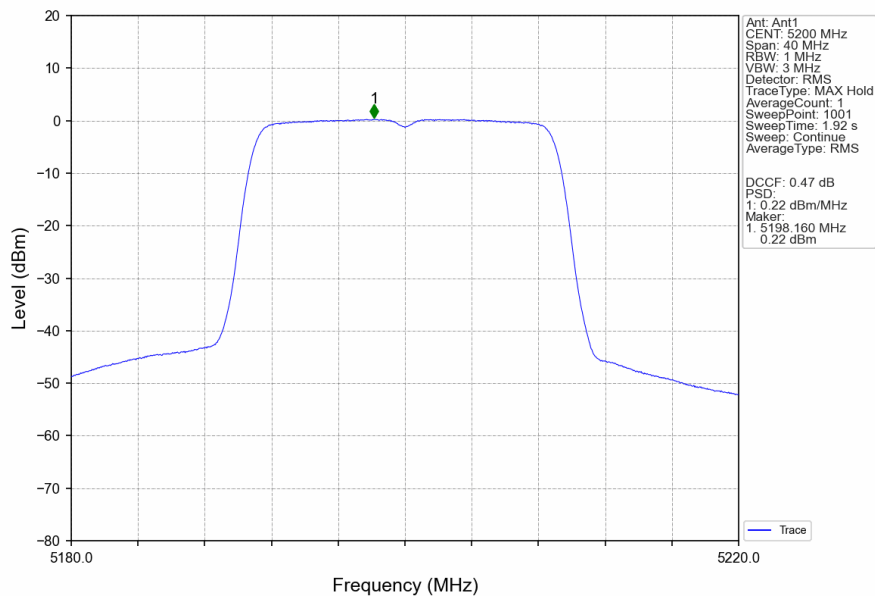
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802.11n(HT20)_LCH_5180MHz_MIMO_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

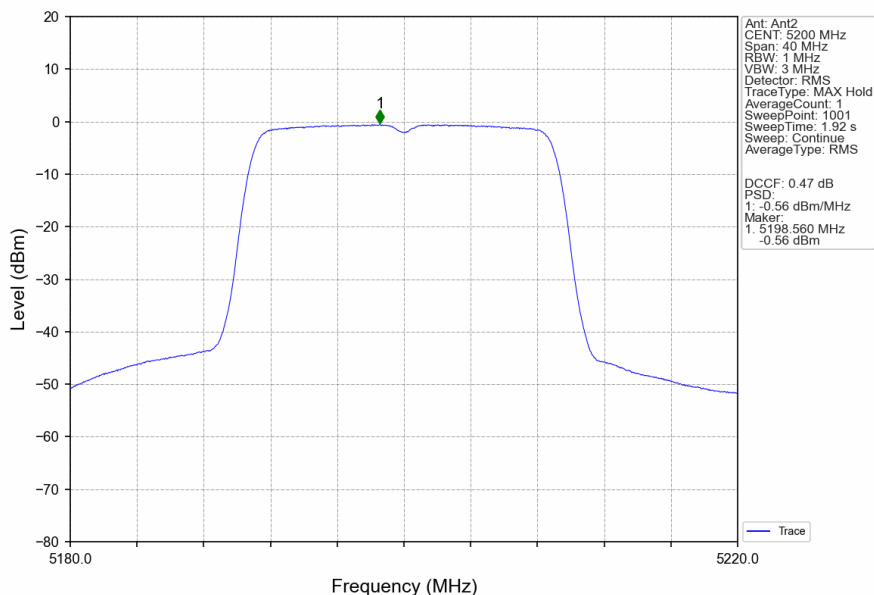


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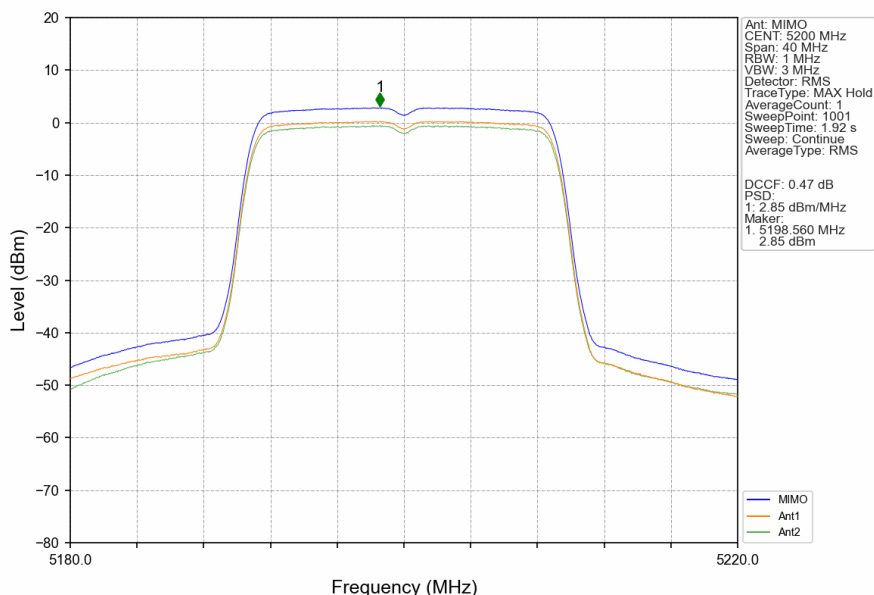
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802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



802.11n(HT20)_MCH_5200MHz_MIMO_NTNV



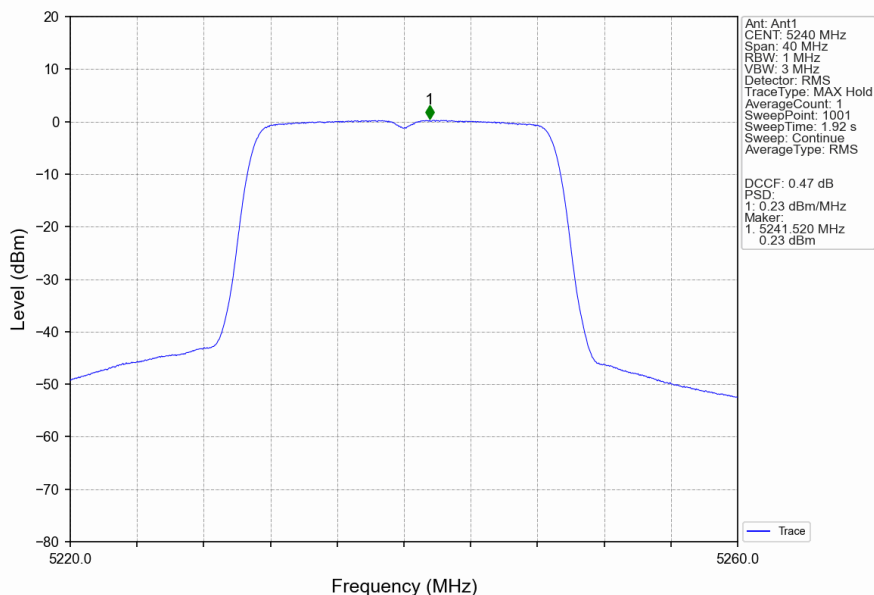
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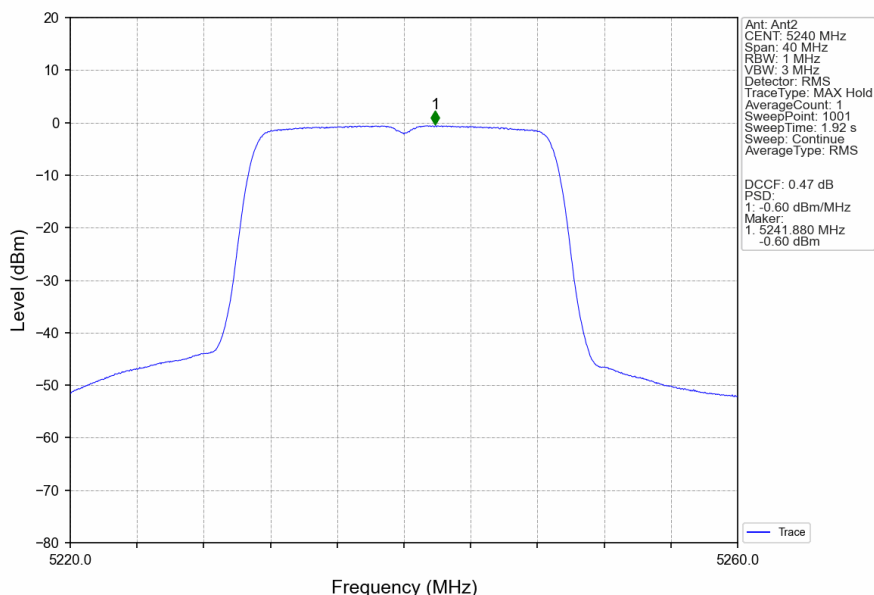
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



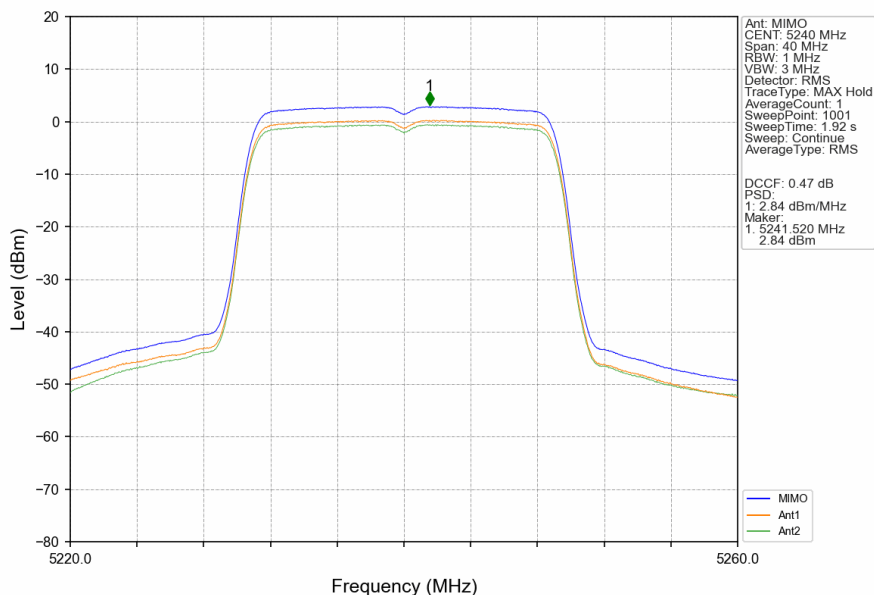
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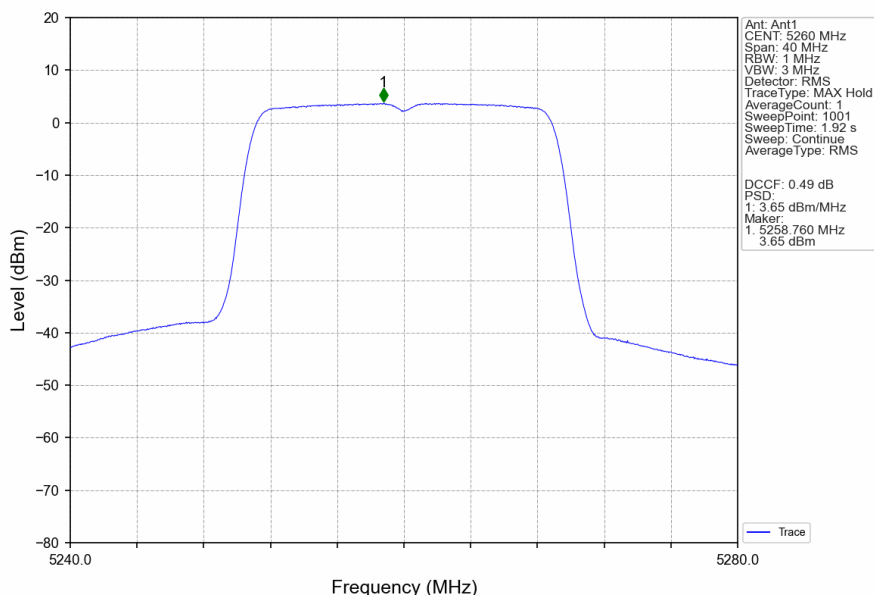
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802.11n(HT20)_HCH_5240MHz_MIMO_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV

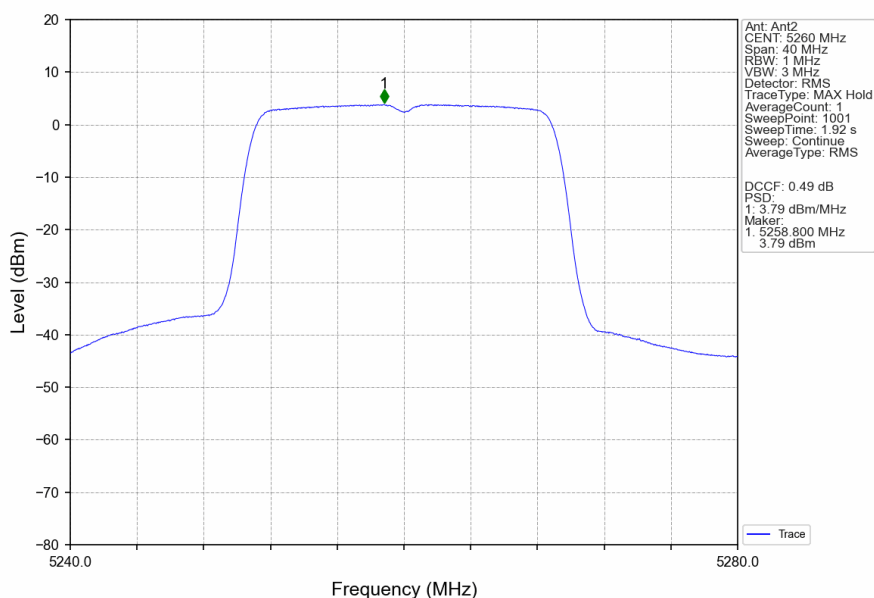


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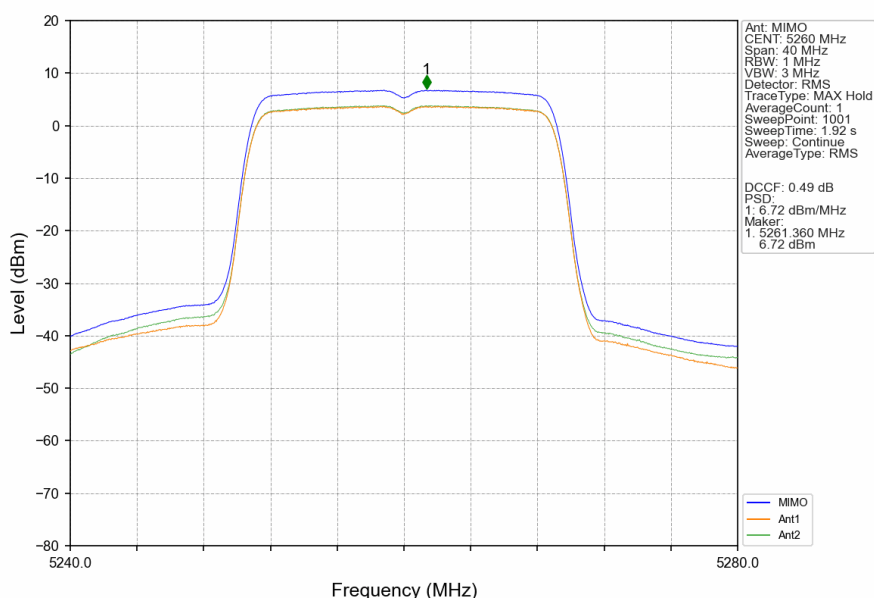
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802.11n(HT20)_LCH_5260MHz_Ant2_NTNV



802.11n(HT20)_LCH_5260MHz_MIMO_NTNV



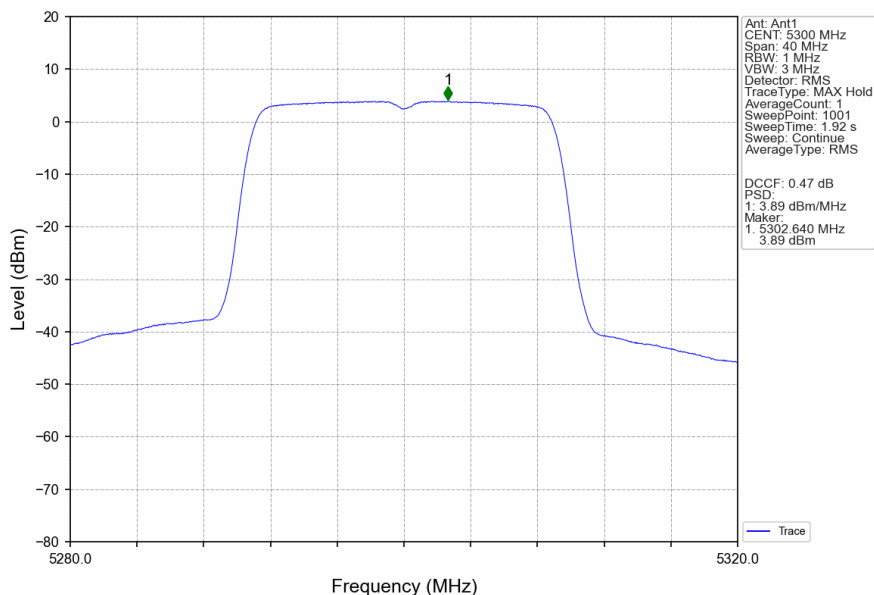
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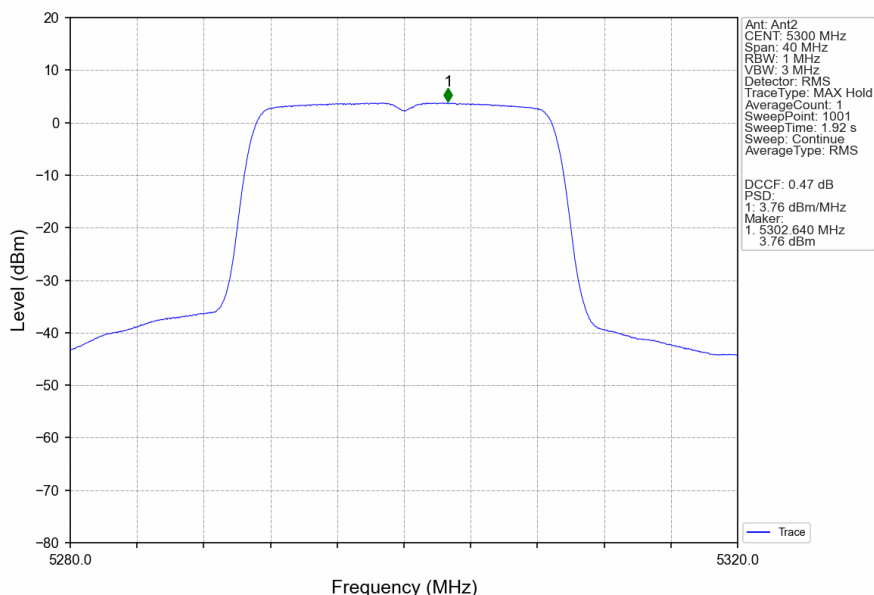
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802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant2_NTNV

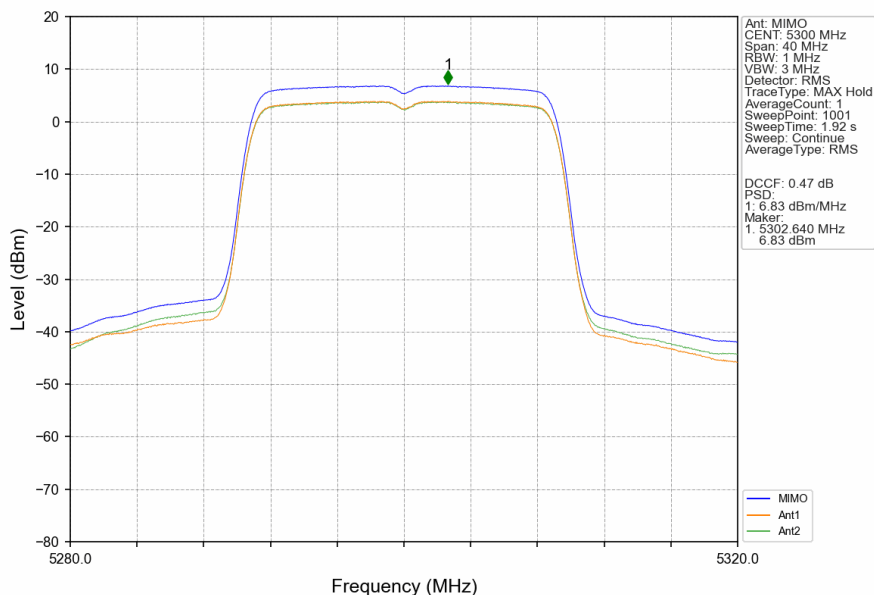


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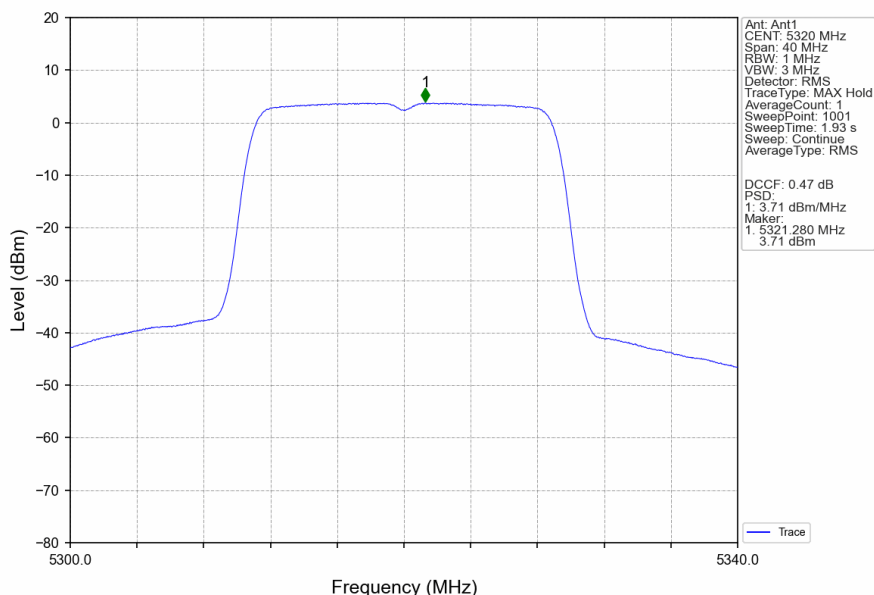
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802.11n(HT20)_MCH_5300MHz_MIMO_NTNV



802.11n(HT20)_HCH_5320MHz_Ant1_NTNV

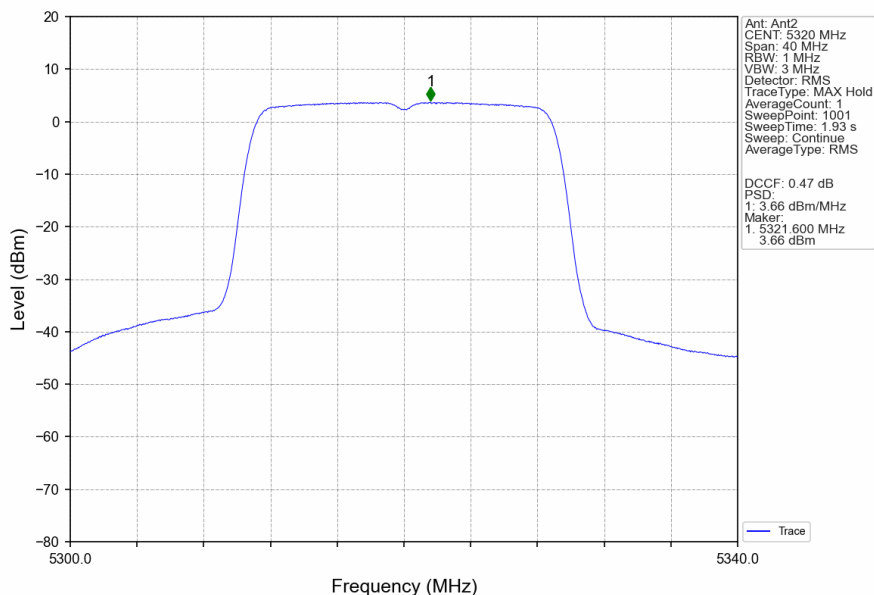


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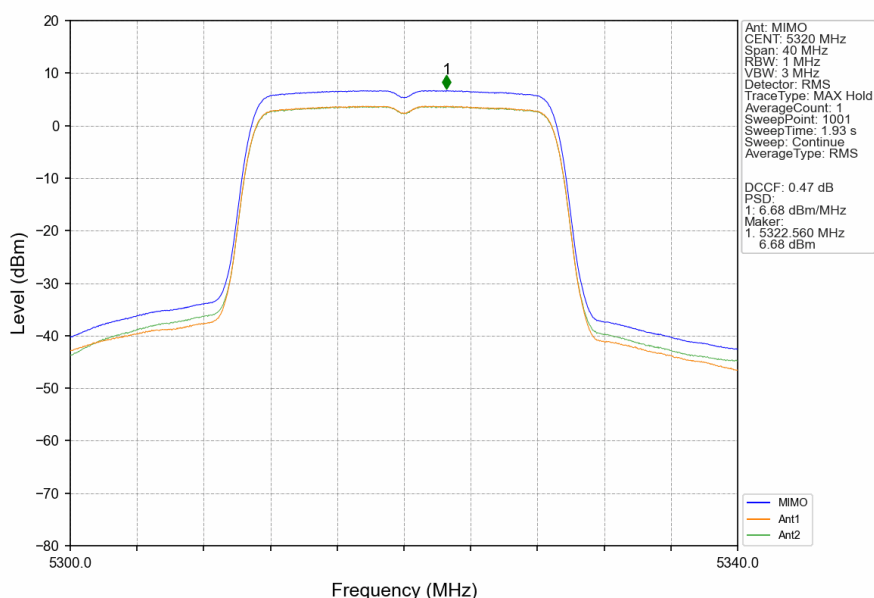
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802.11n(HT20)_HCH_5320MHz_Ant2_NTNV



802.11n(HT20)_HCH_5320MHz_MIMO_NTNV



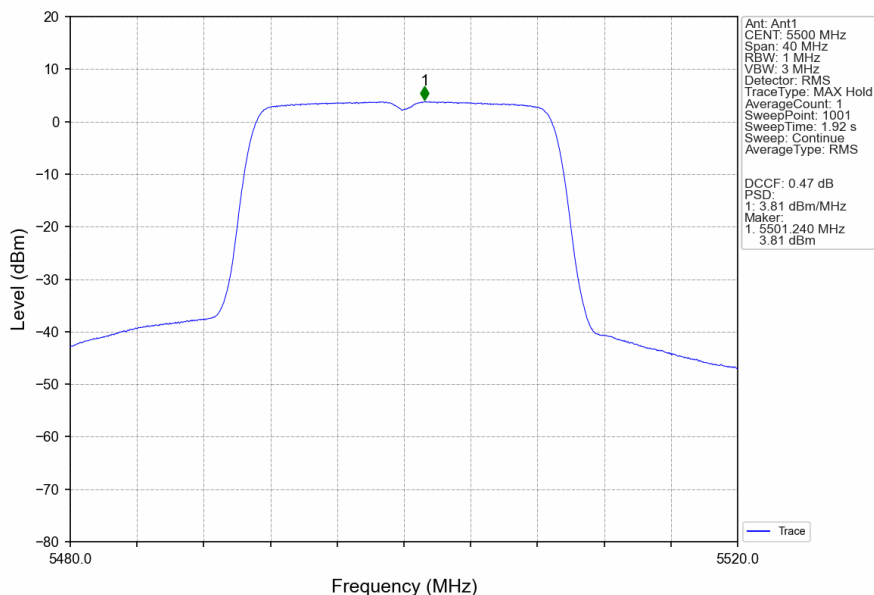
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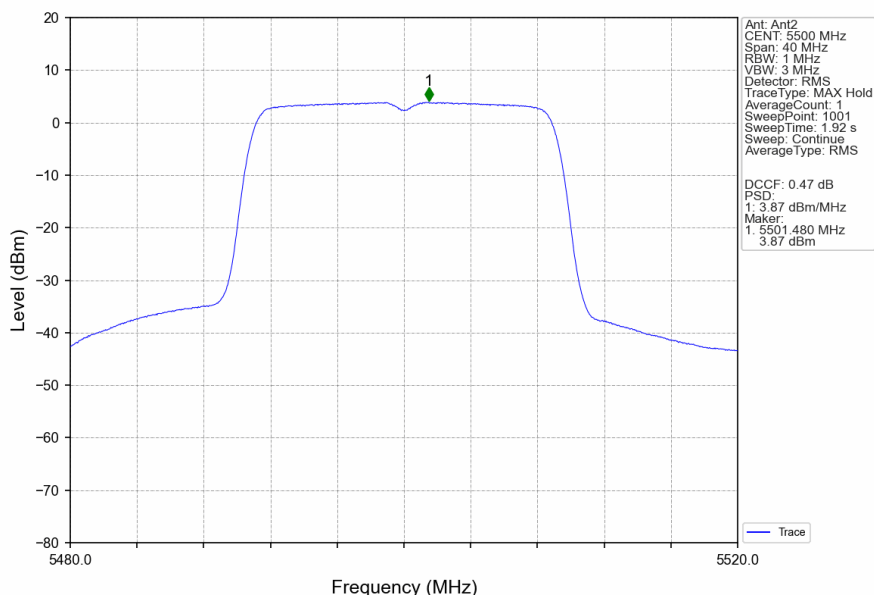
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



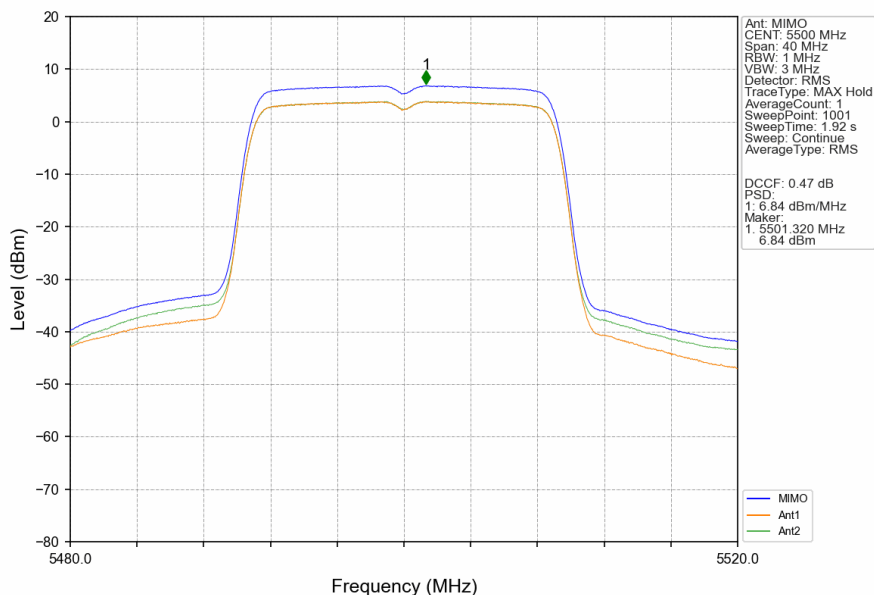
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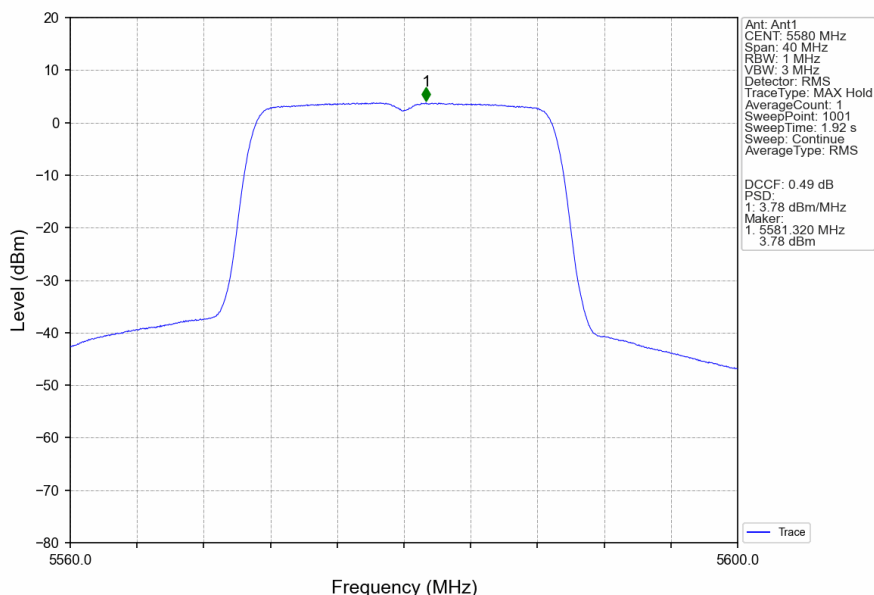
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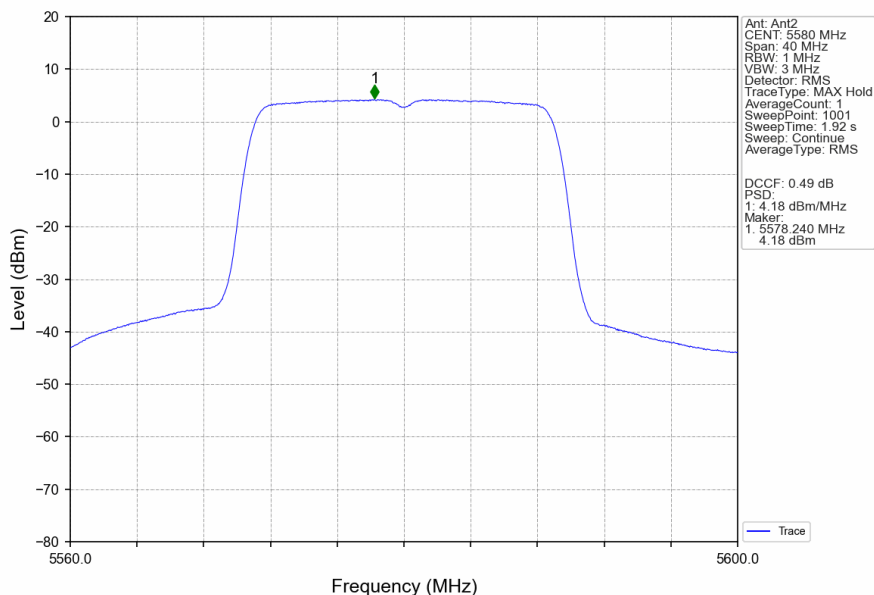
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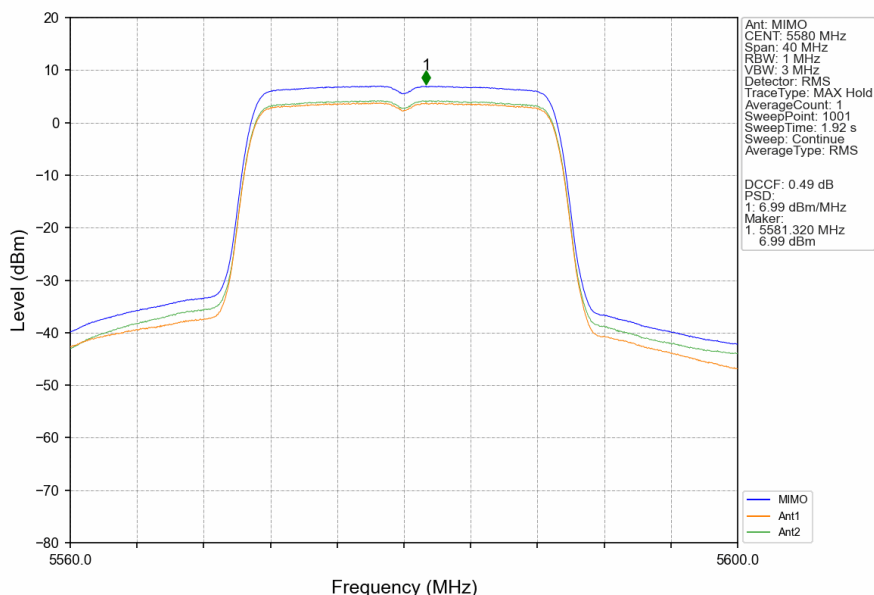
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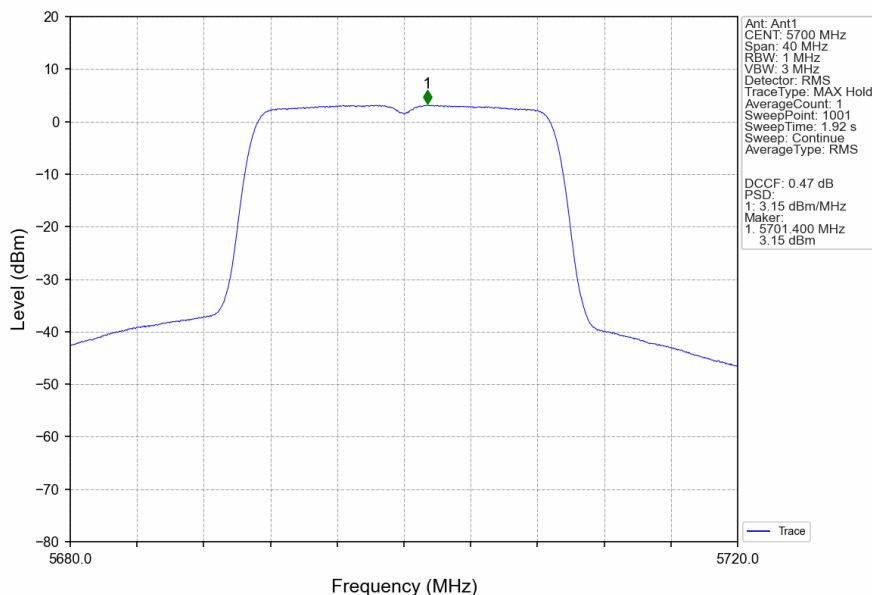
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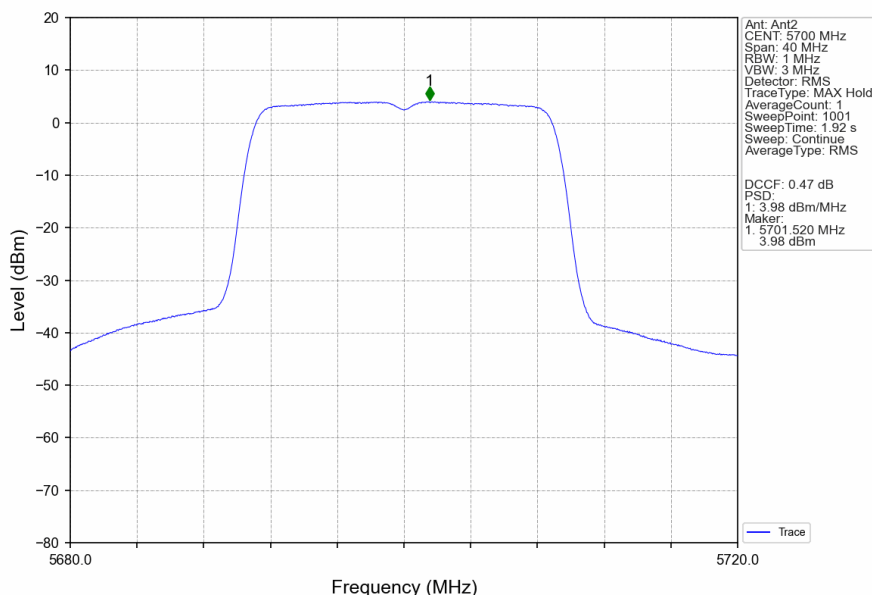
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_Ant2_NTNV



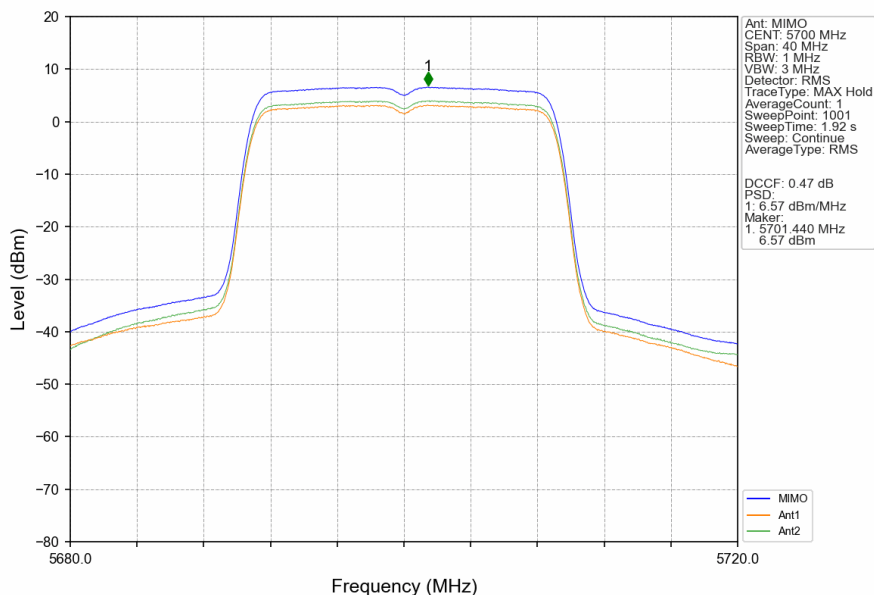
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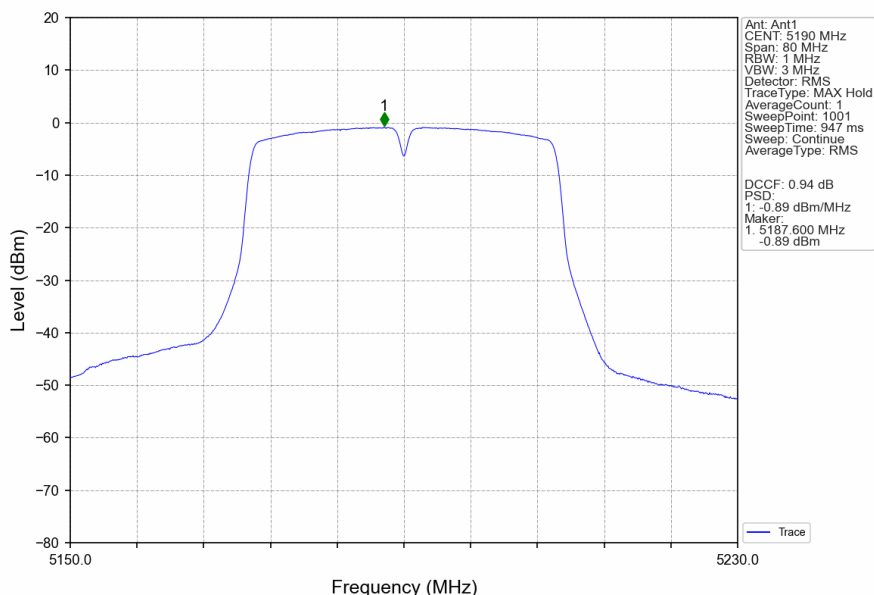
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802.11n(HT20)_HCH_5700MHz_MIMO_NTNV



802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

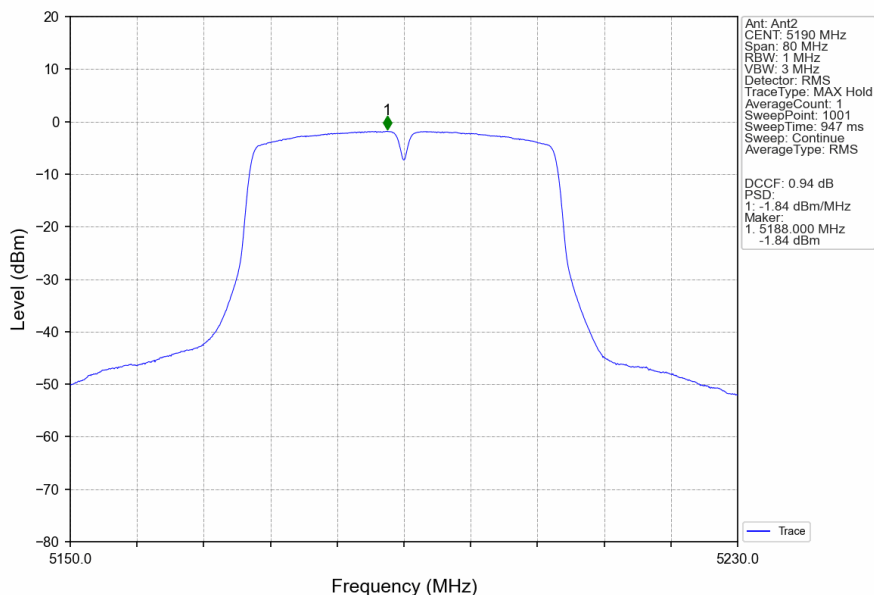


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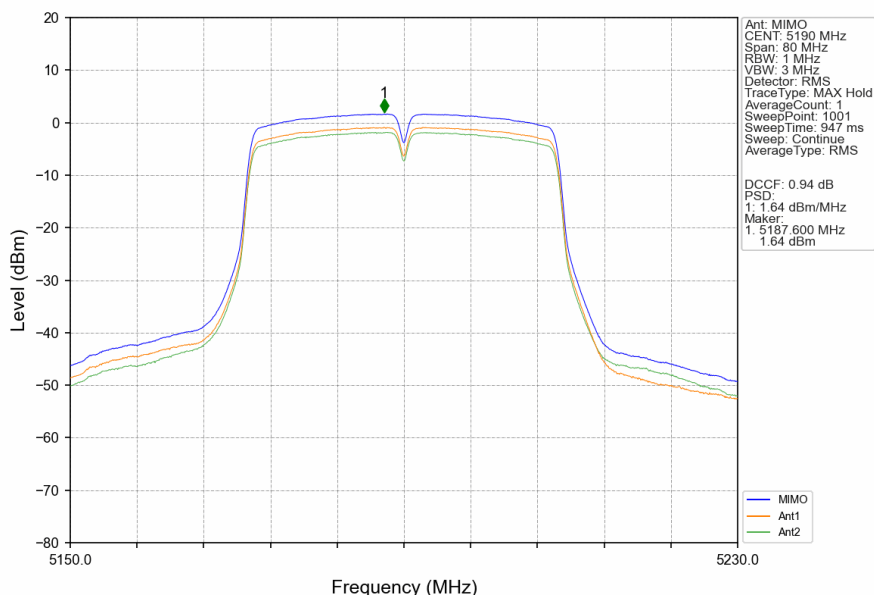
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802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



802.11n(HT40)_LCH_5190MHz_MIMO_NTNV

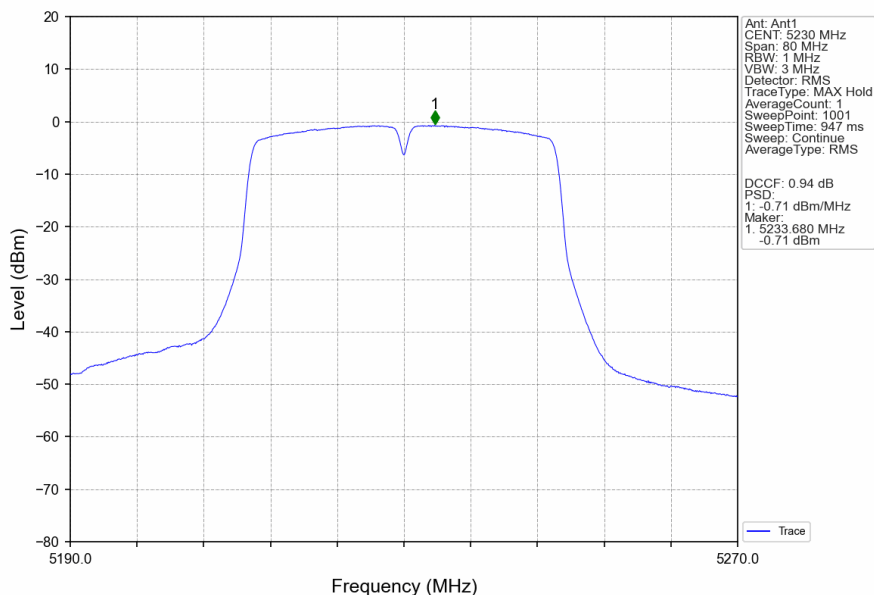


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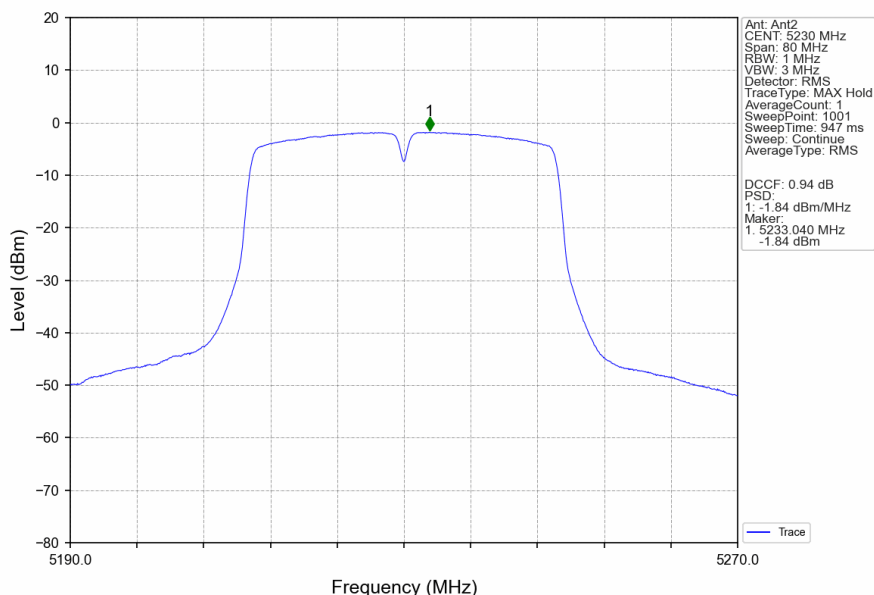
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



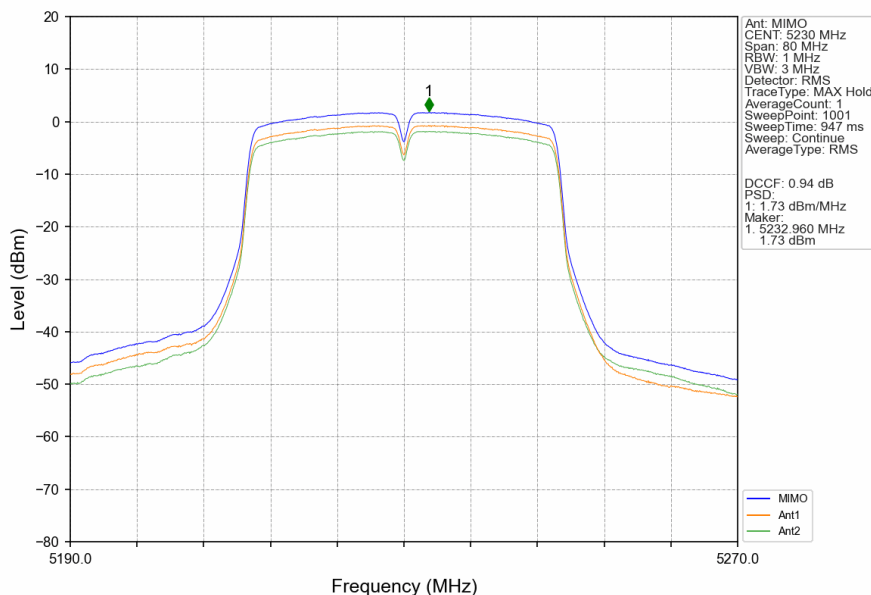
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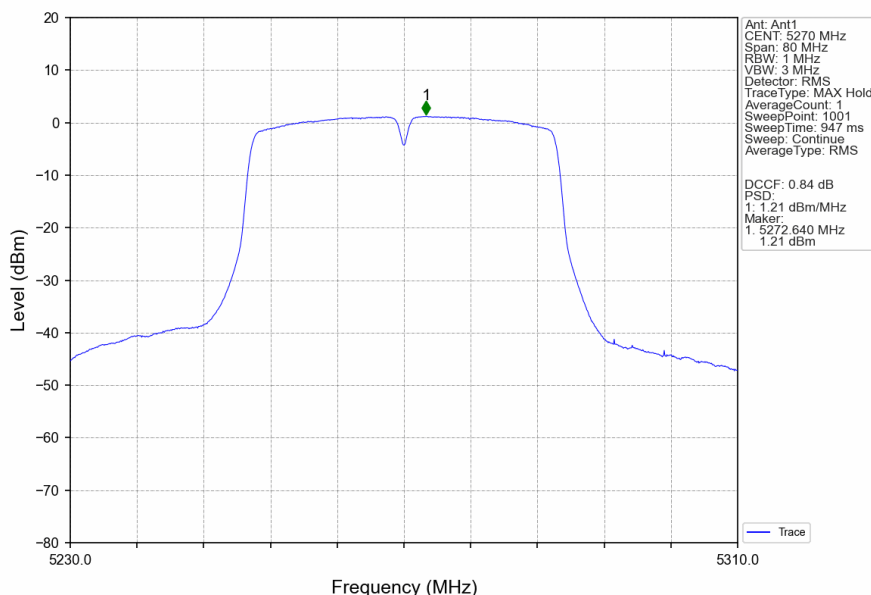
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802.11n(HT40)_HCH_5230MHz_MIMO_NTNV



802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



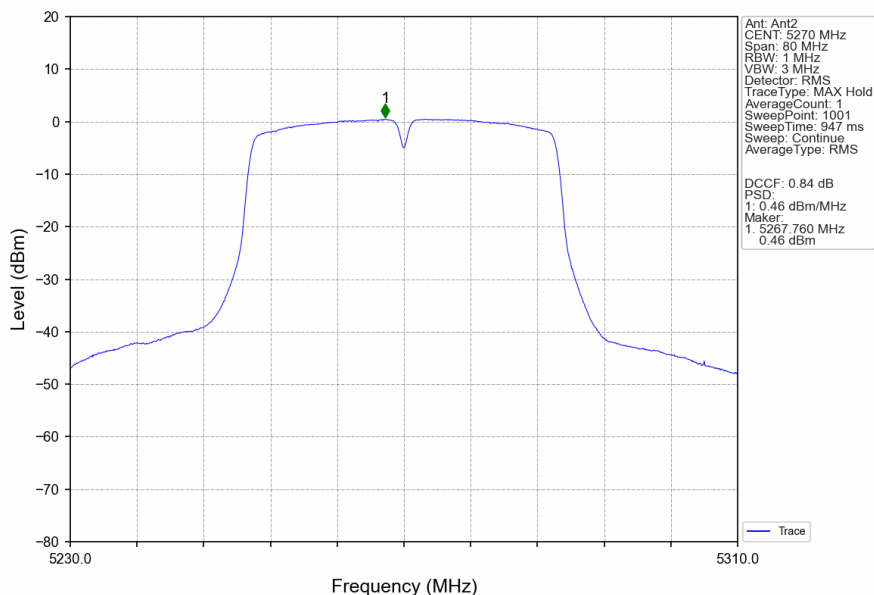
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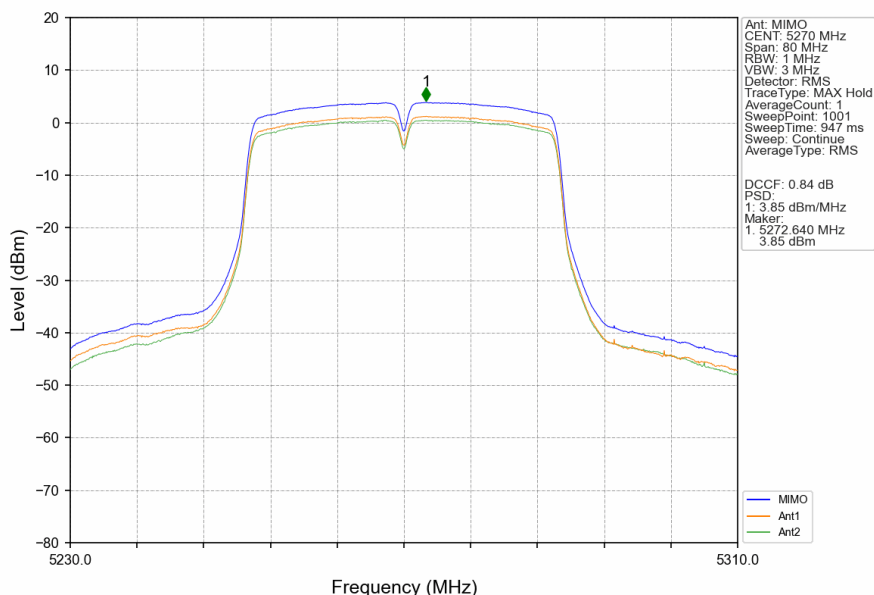
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802.11n(HT40)_LCH_5270MHz_MIMO_NTNV



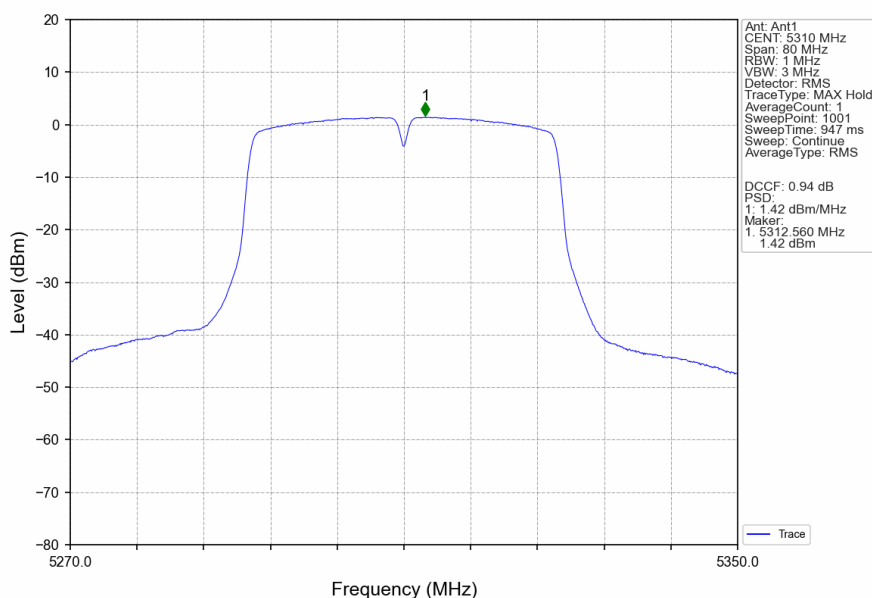
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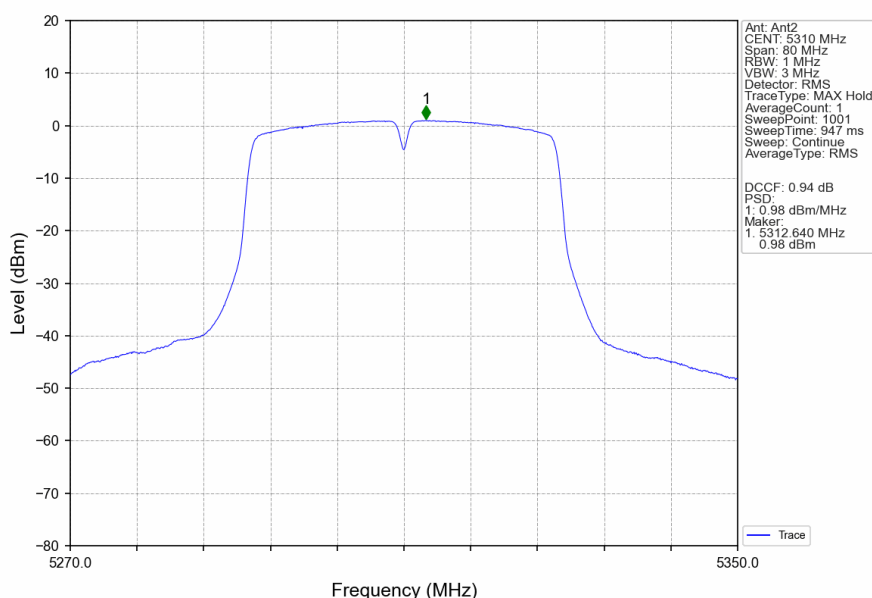
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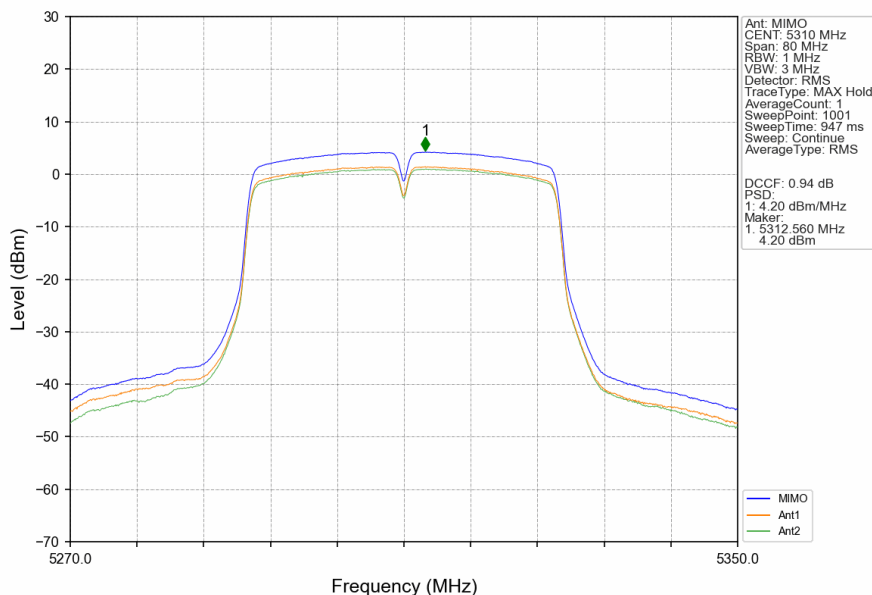
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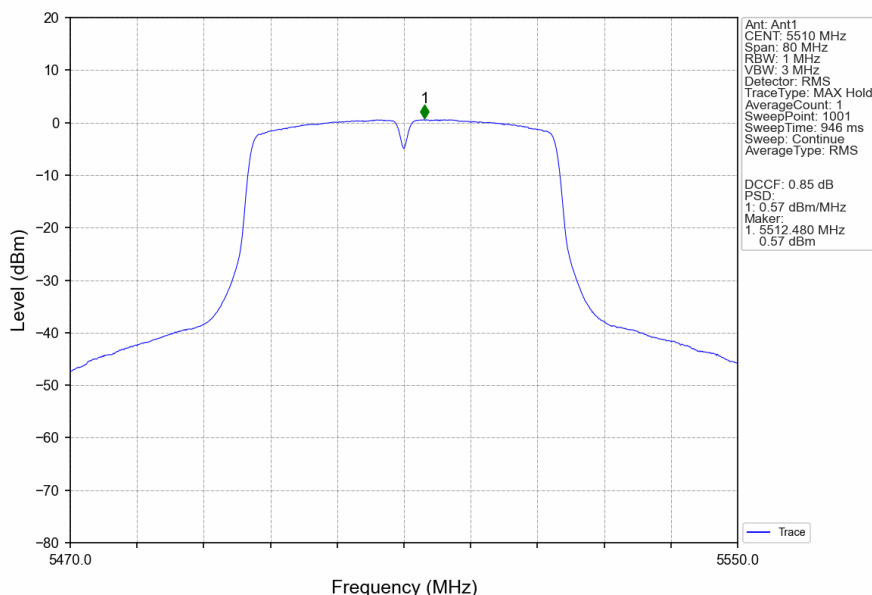
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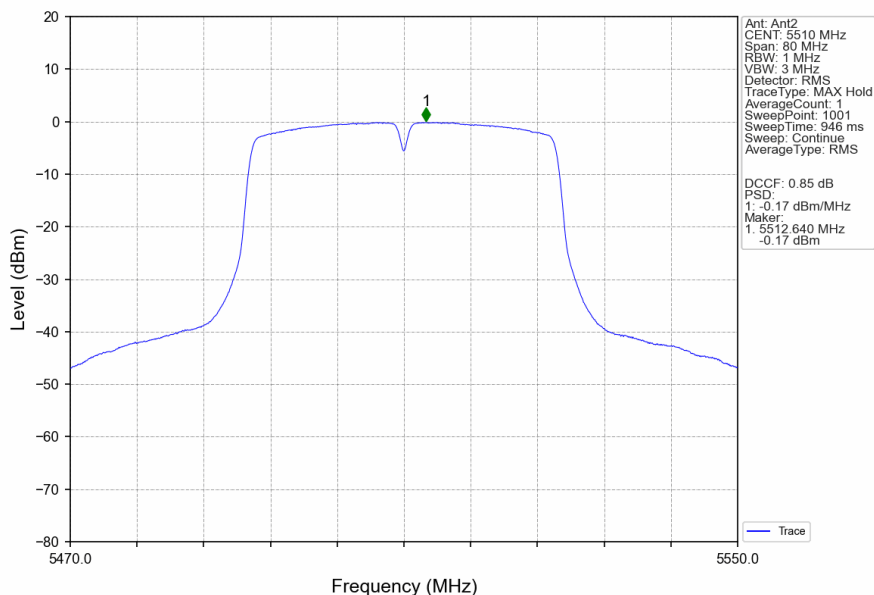
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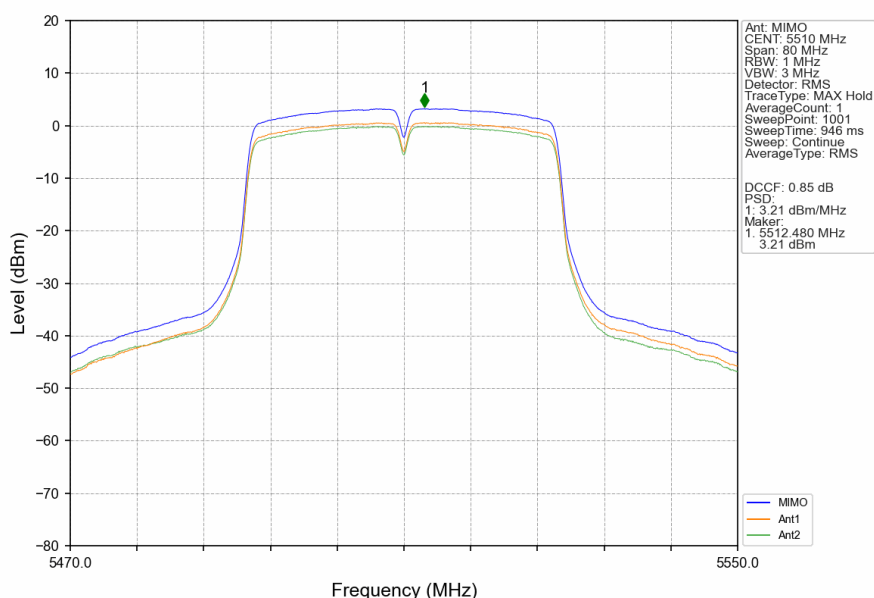
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