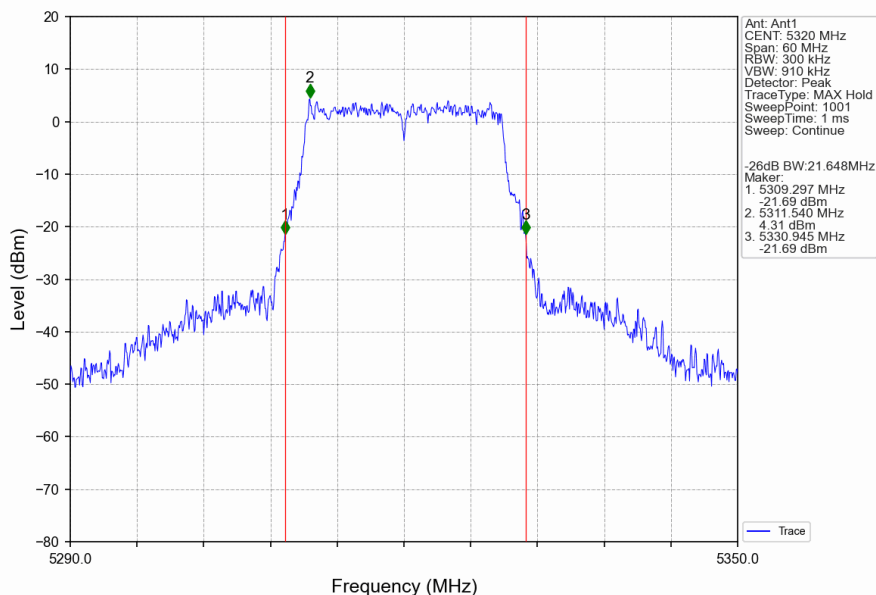
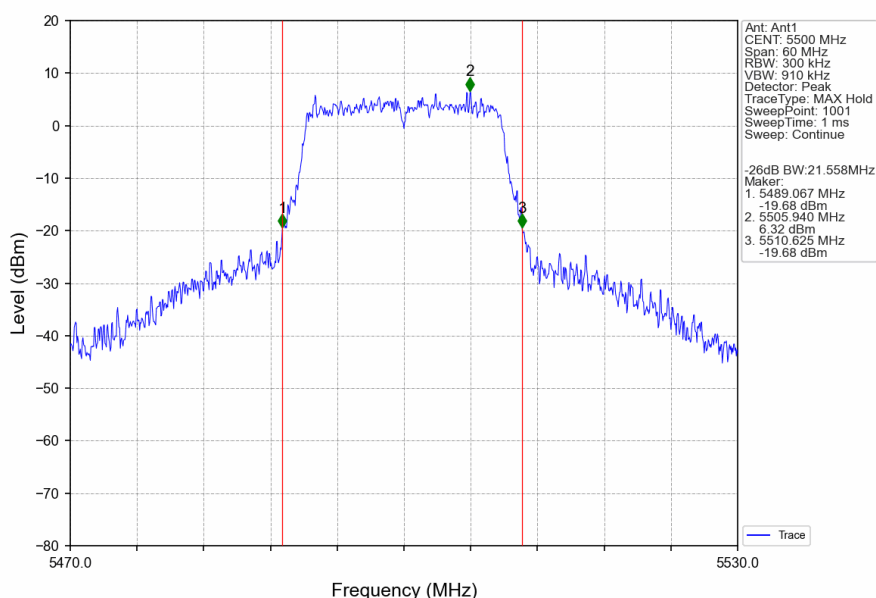


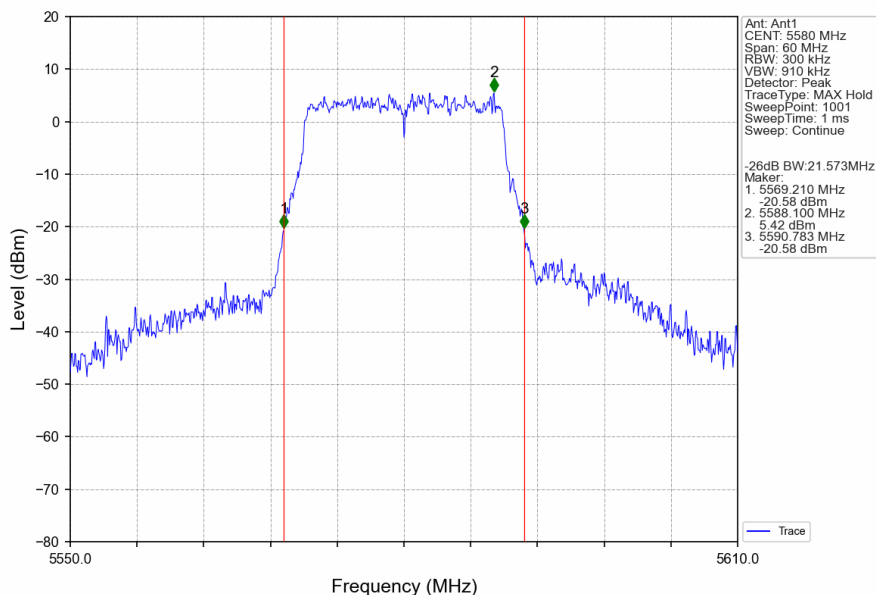
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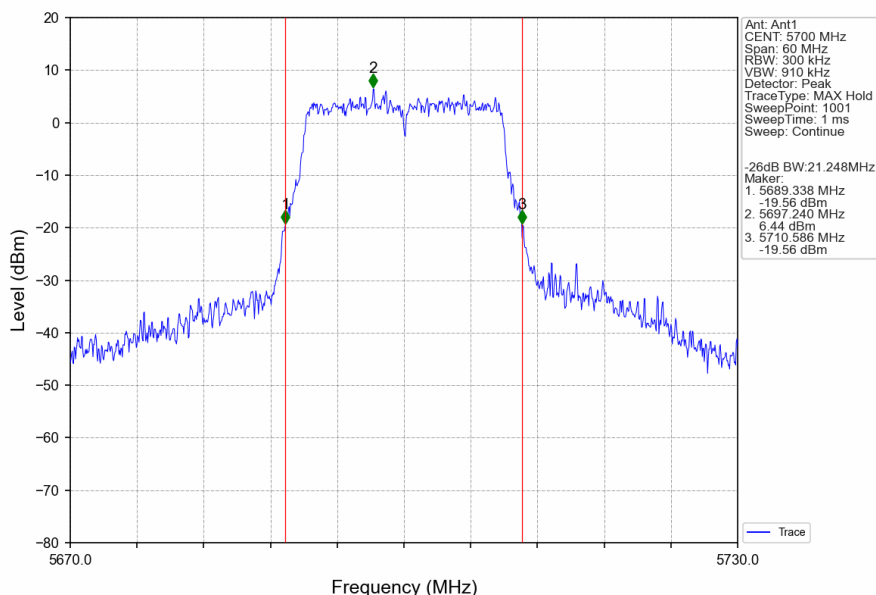
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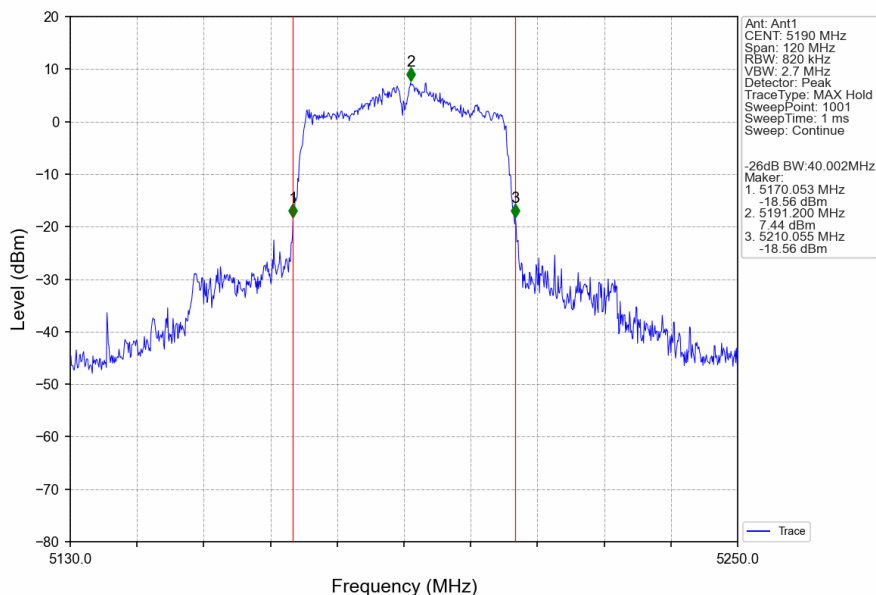
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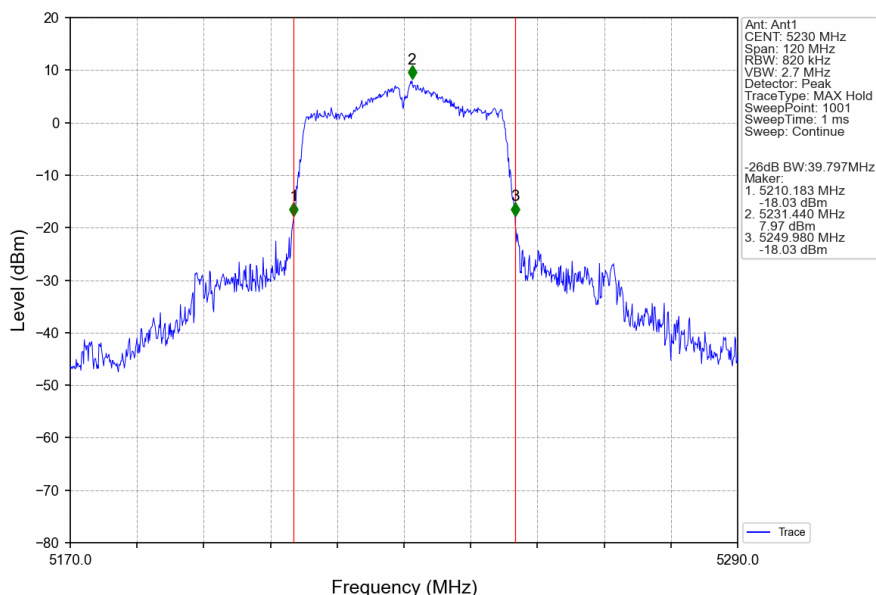
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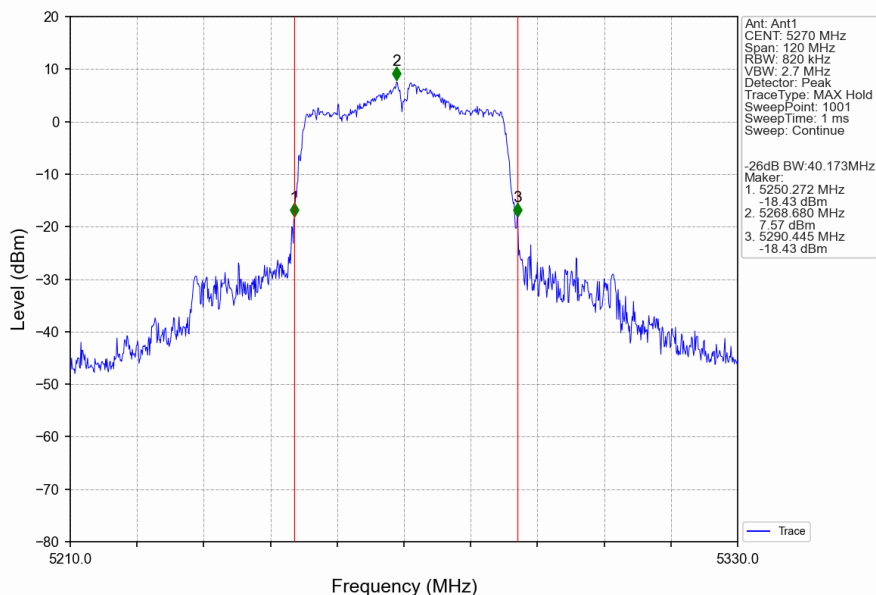
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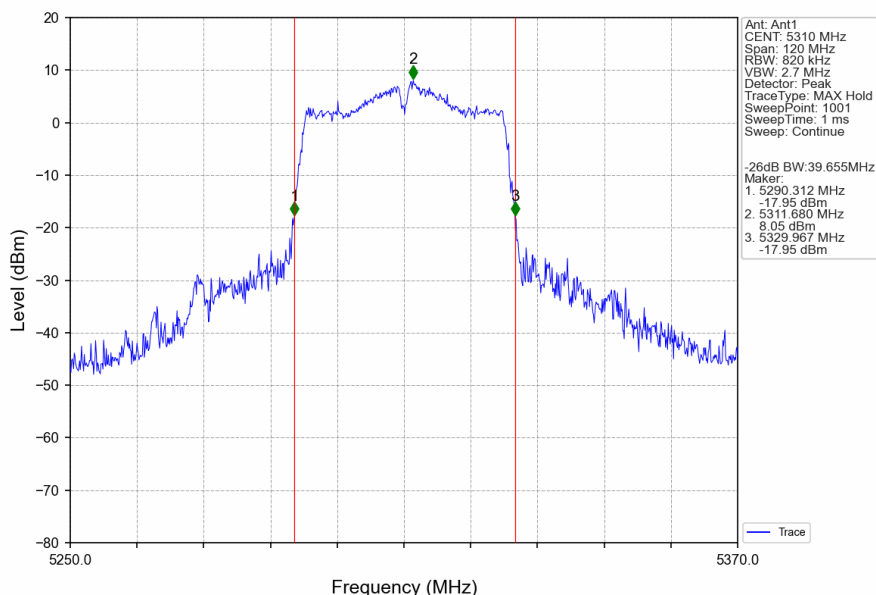
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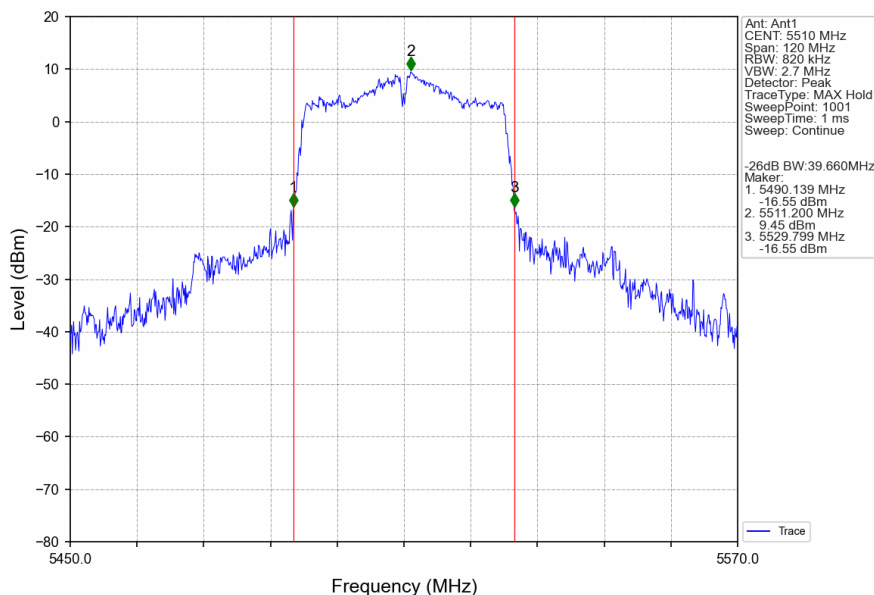
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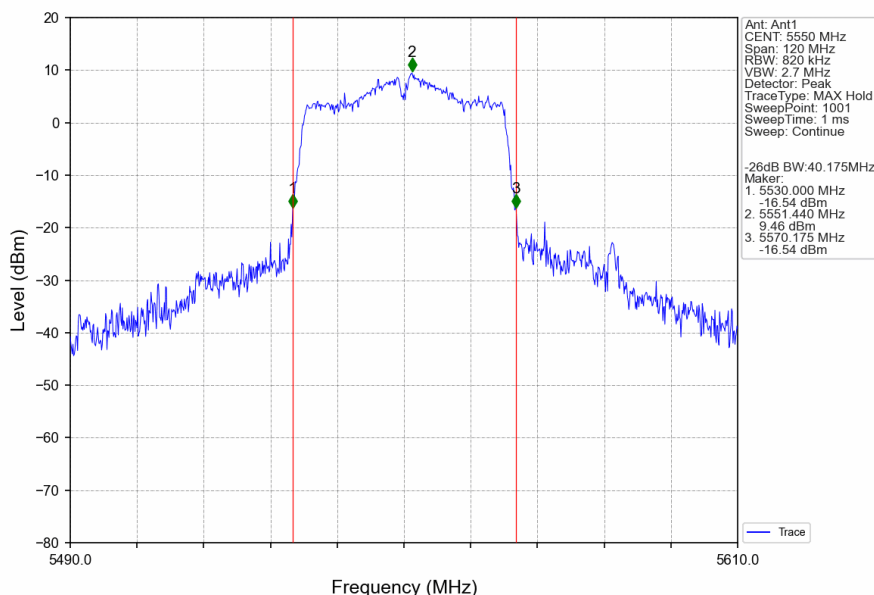
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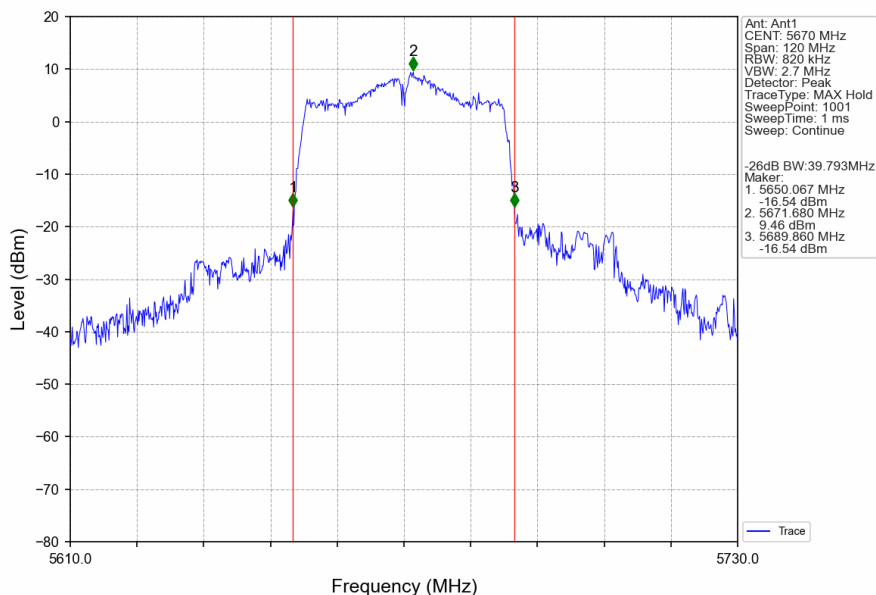
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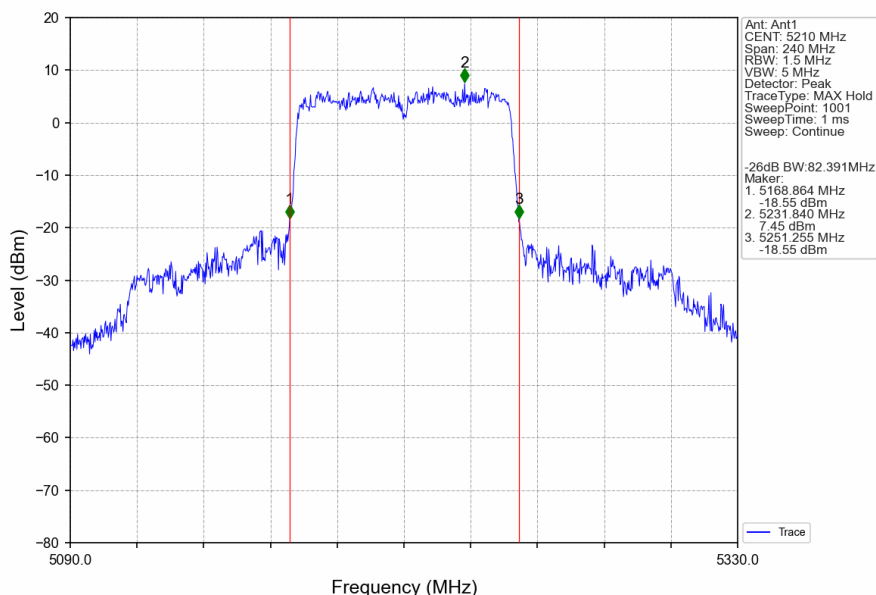
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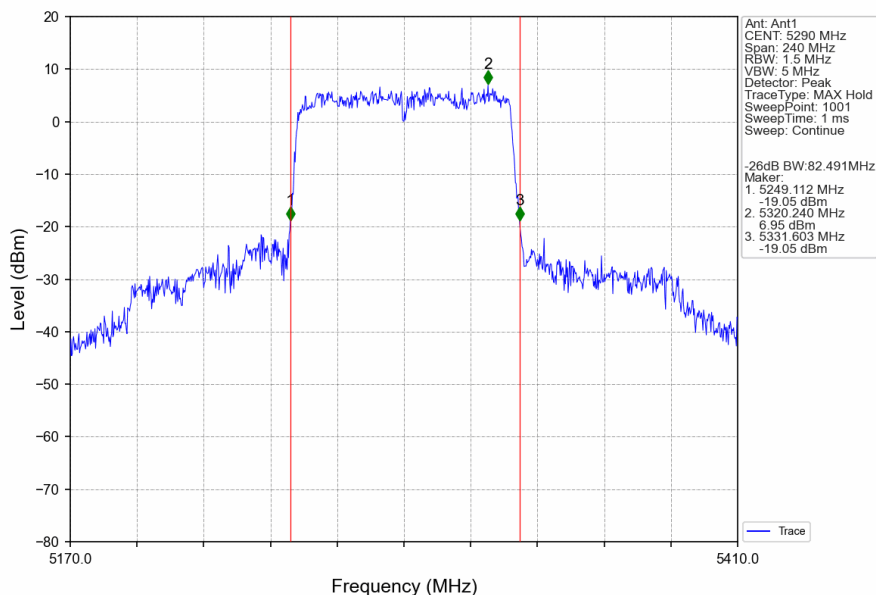
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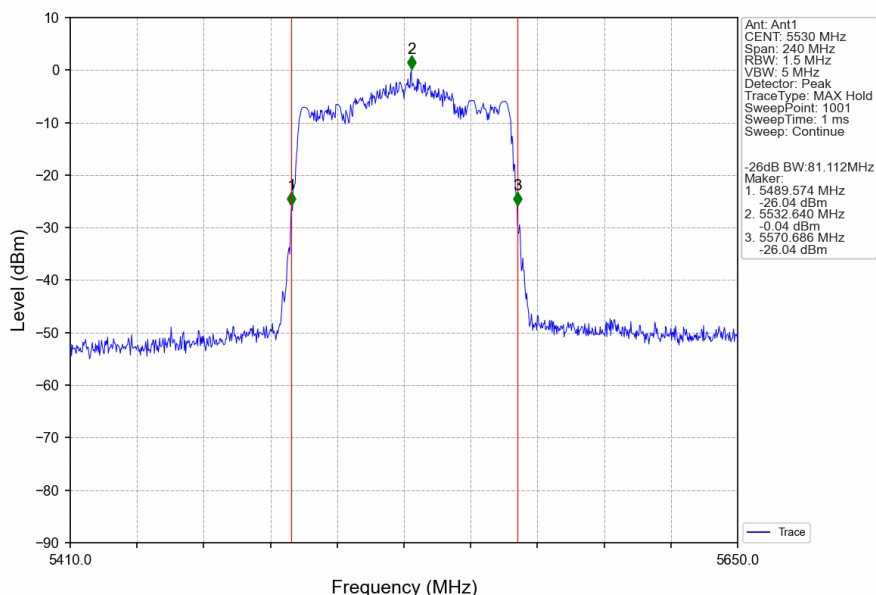
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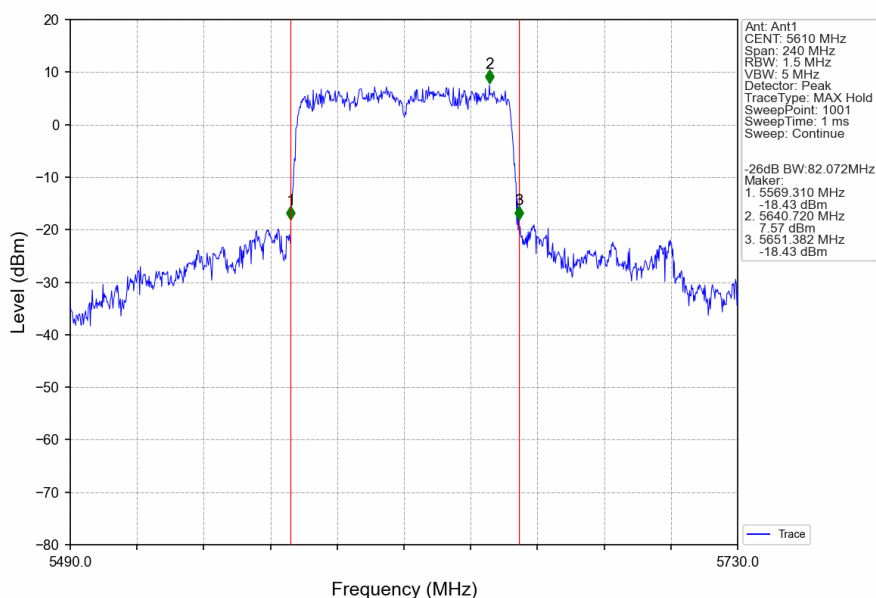
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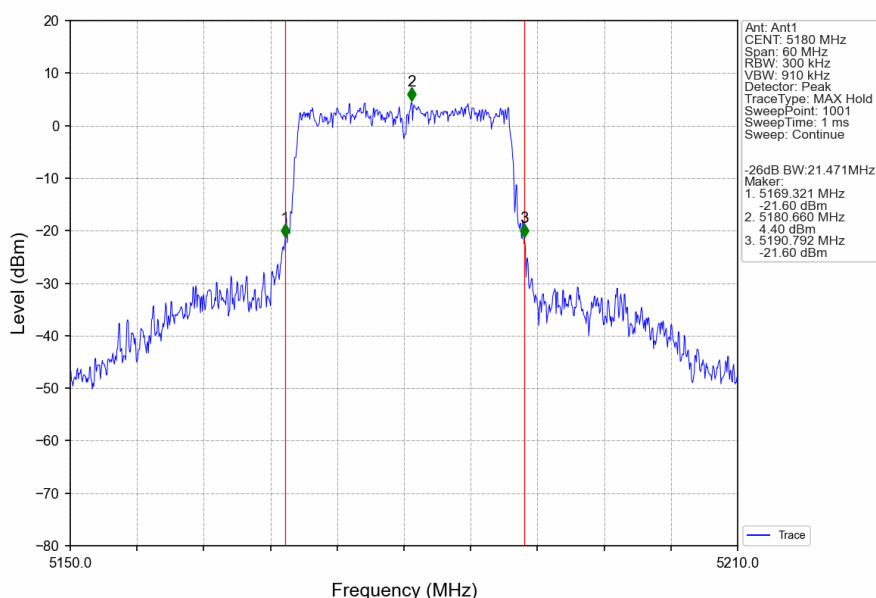
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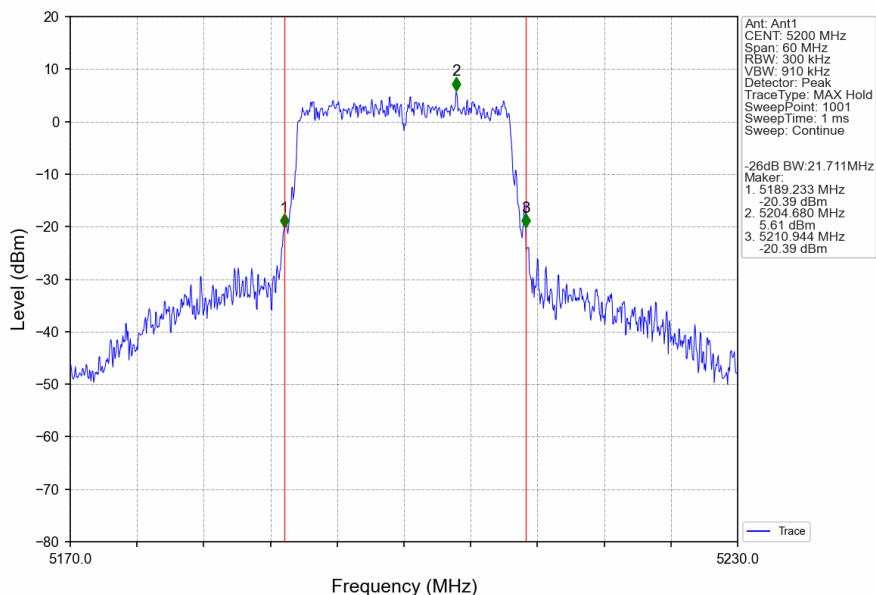
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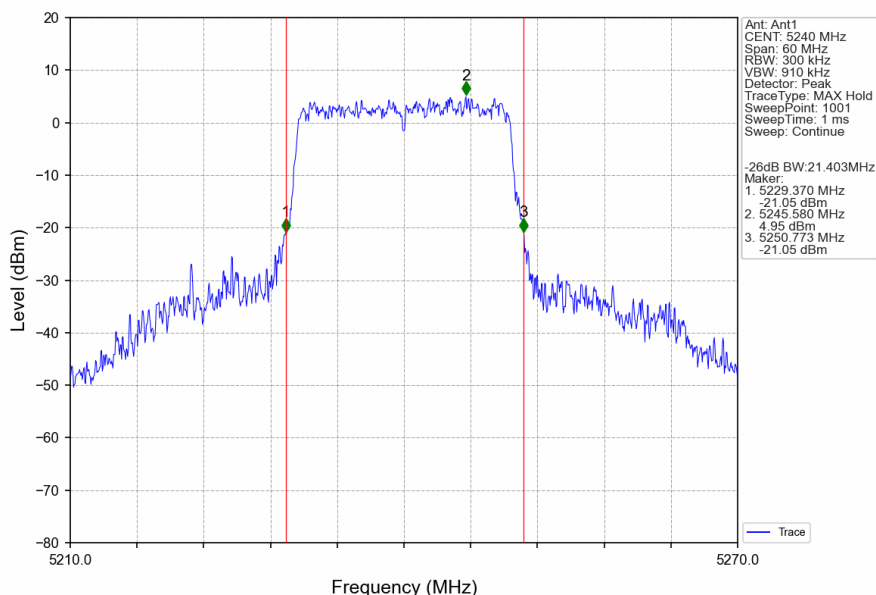
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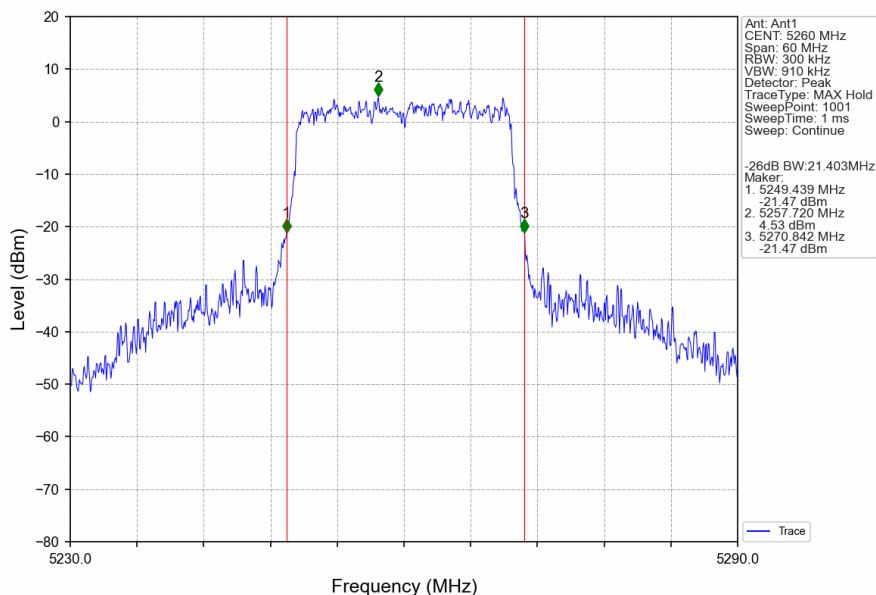
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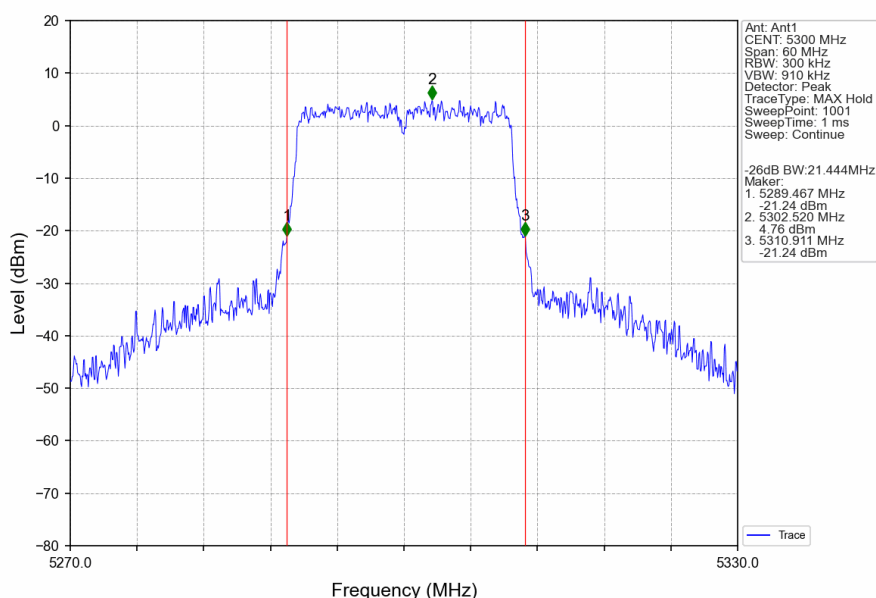
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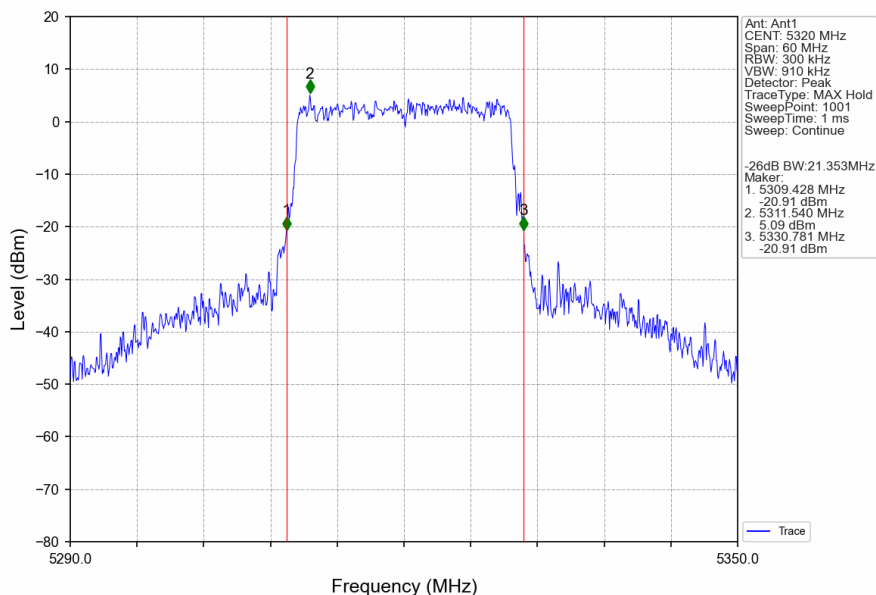
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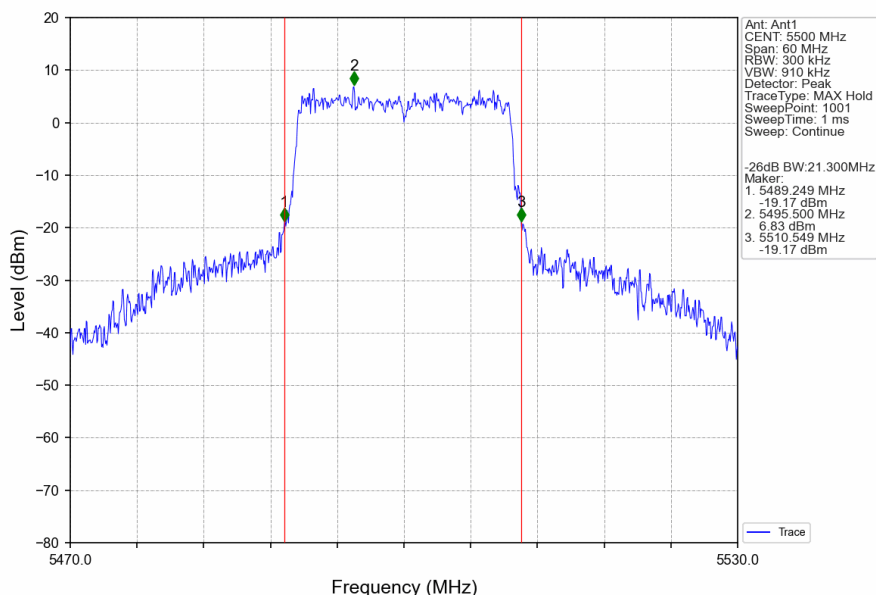
802.11ax(HEW20)_MCH_5300MHz_SU_ / _Ant1_NTNV



802.11ax(HEW20)_HCH_5320MHz_SU_/_Ant1_NTNV



802.11ax(HEW20)_LCH_5500MHz_SU_/_Ant1_NTNV



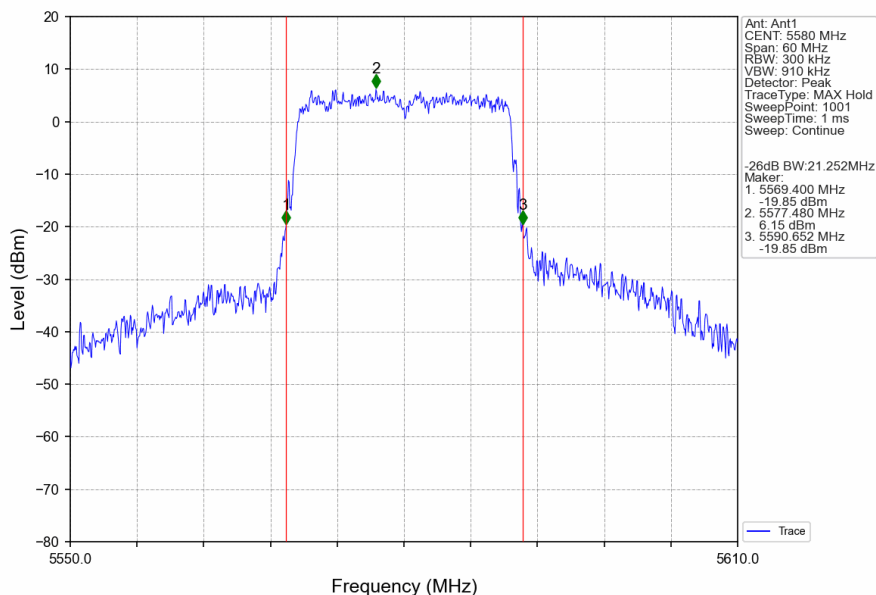
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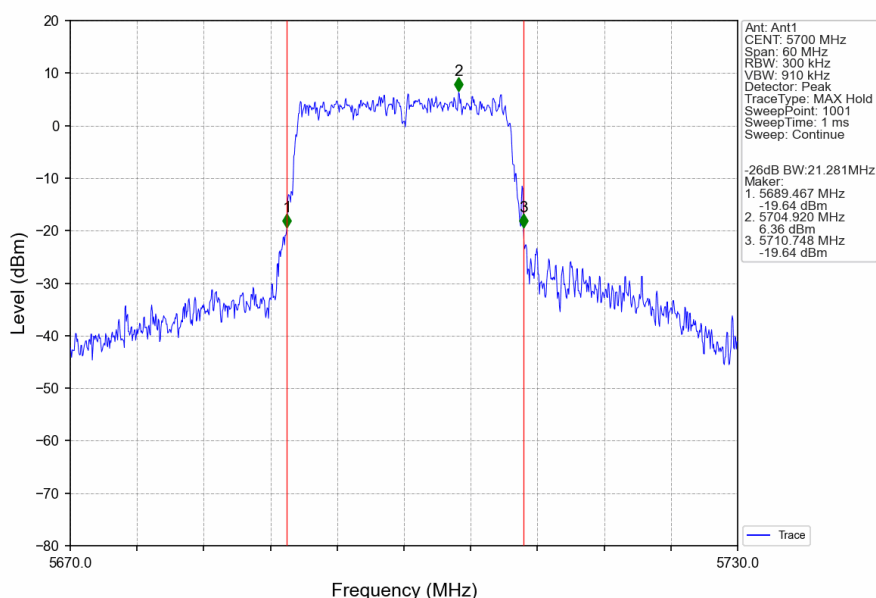
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Shenzhen Branch (Testing & Calibration Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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802.11ax(HEW20)_MCH_5580MHz_SU_/_Ant1_NTNV



802.11ax(HEW20)_HCH_5700MHz_SU_/_Ant1_NTNV



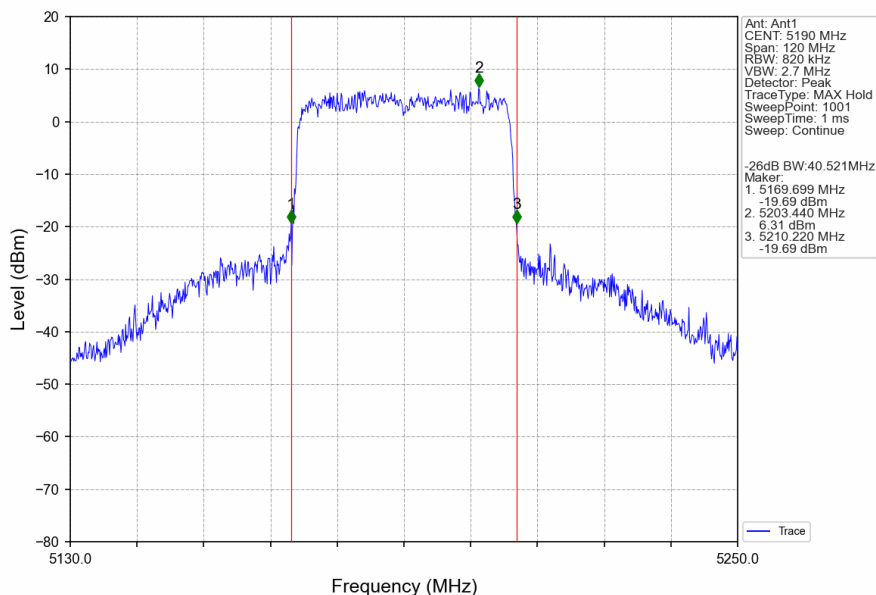
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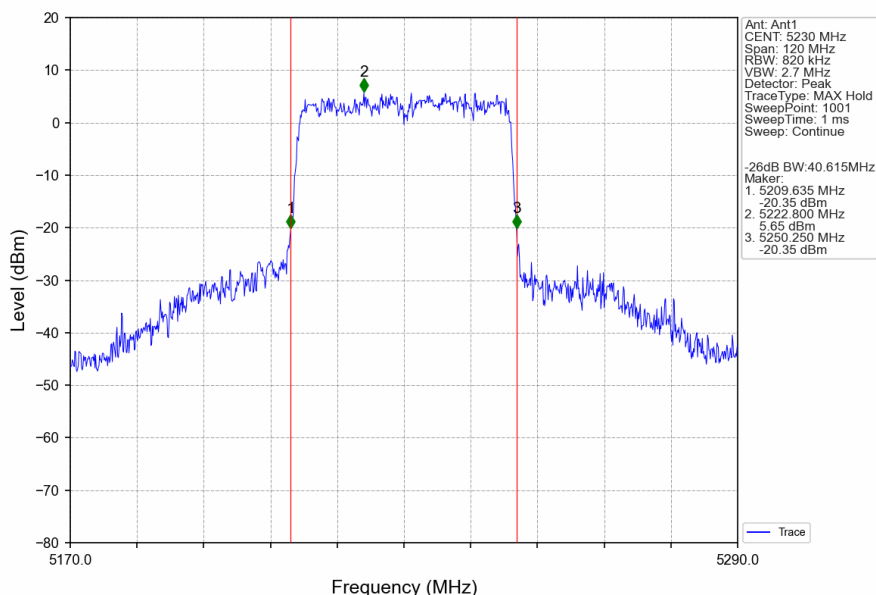
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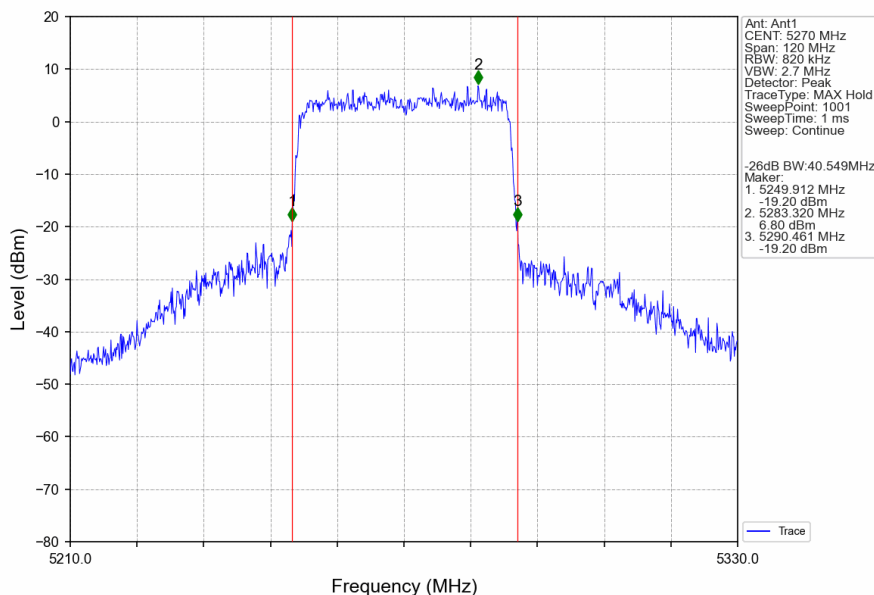
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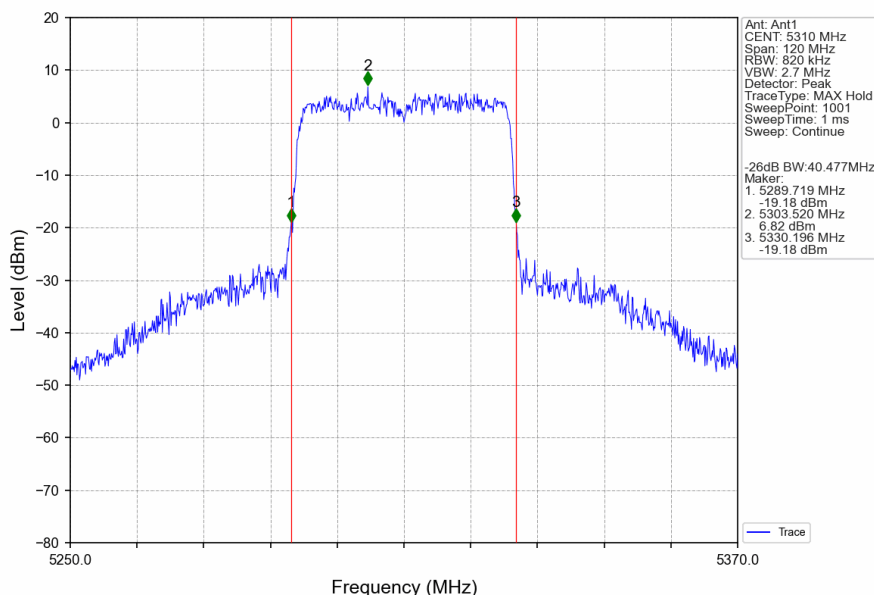
802.11ax(HEW40)_HCH_5230MHz_SU_ / _Ant1_NTNV



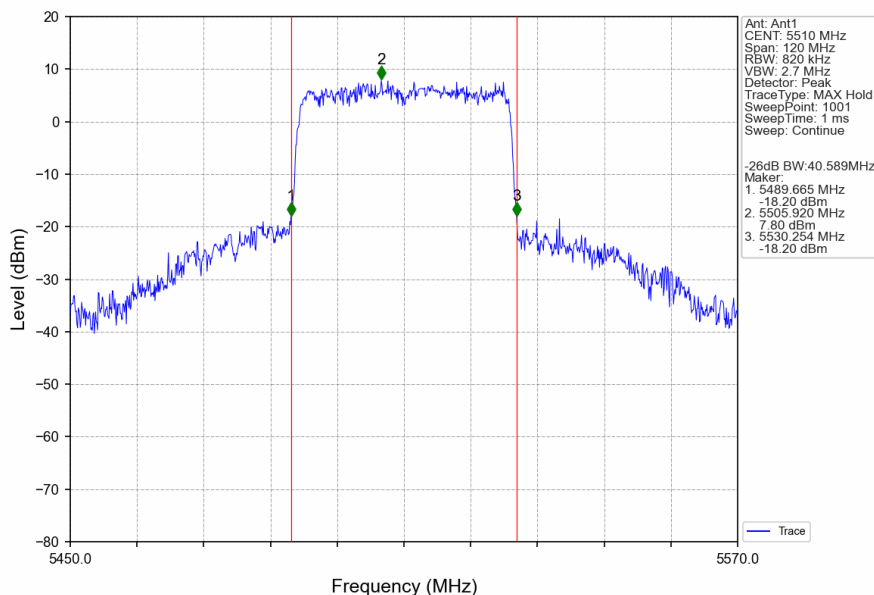
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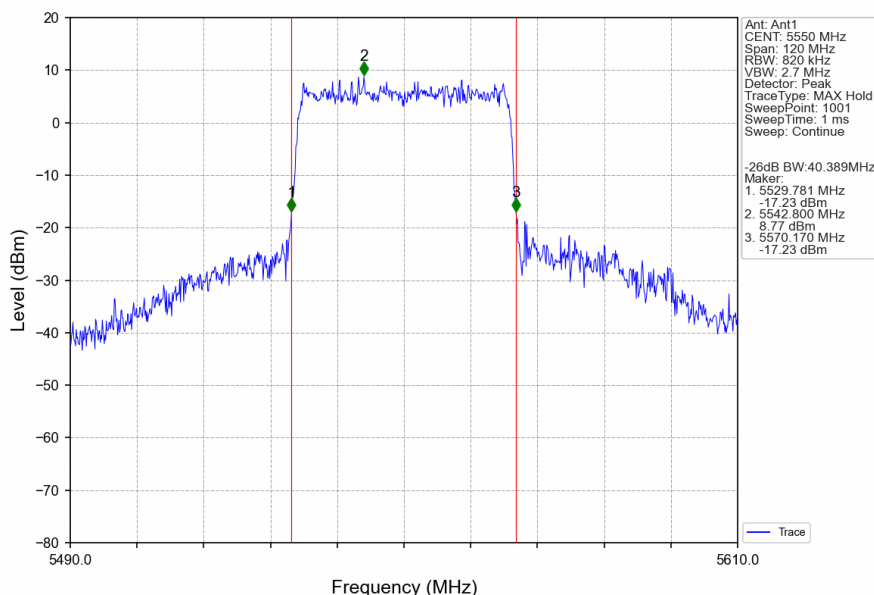
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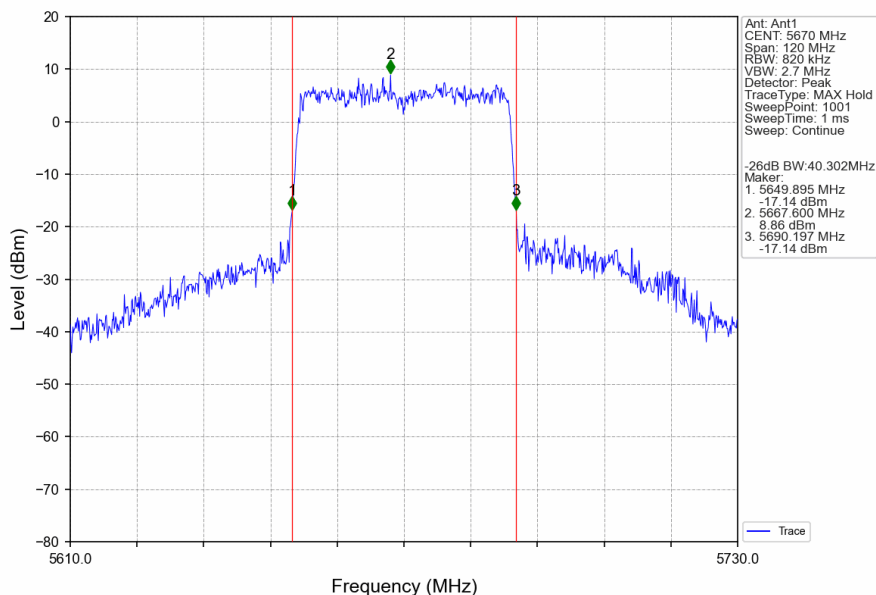
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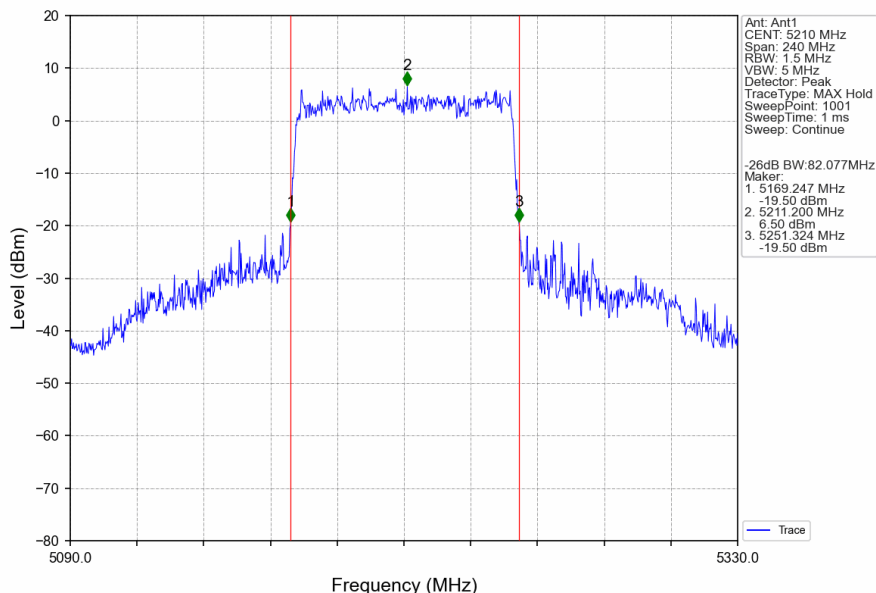
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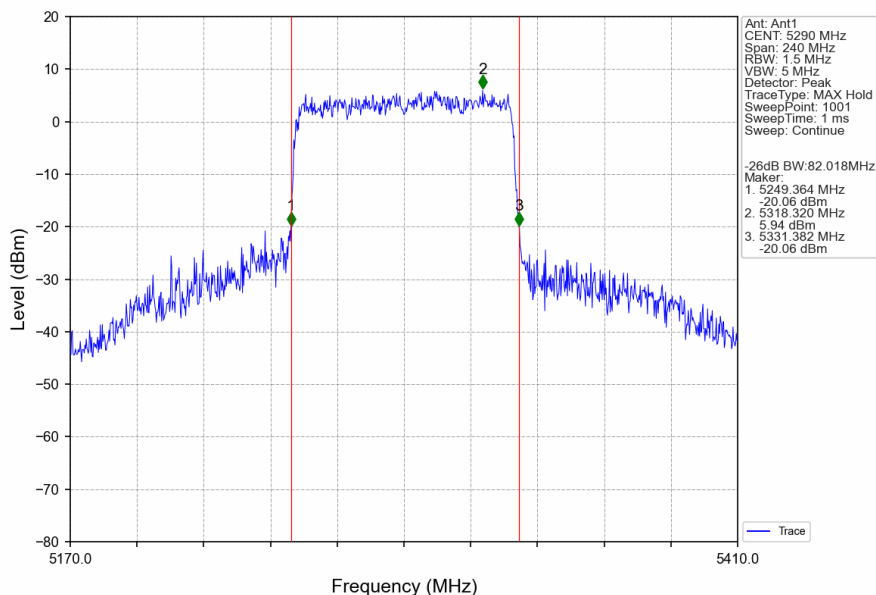
802.11ax(HEW40)_HCH_5670MHz_SU_/_Ant1_NTNV



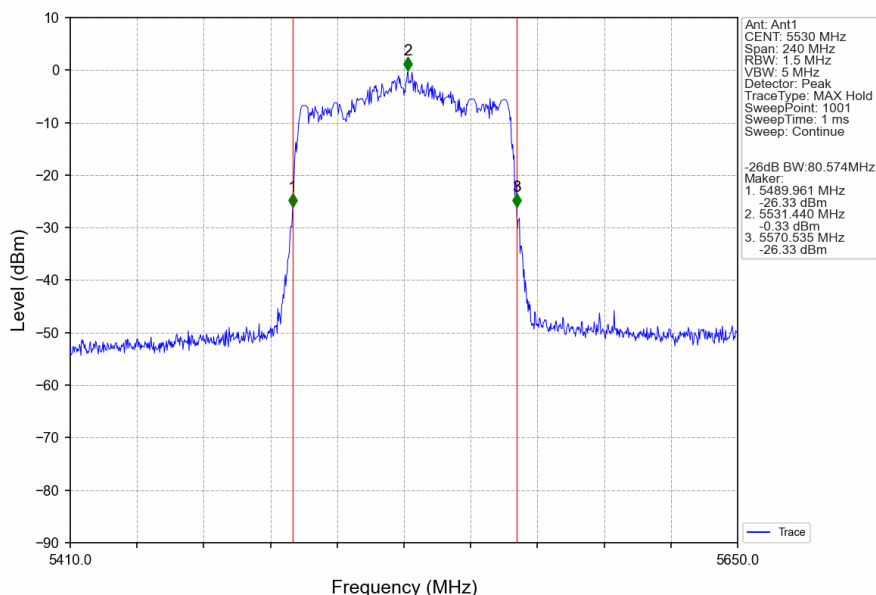
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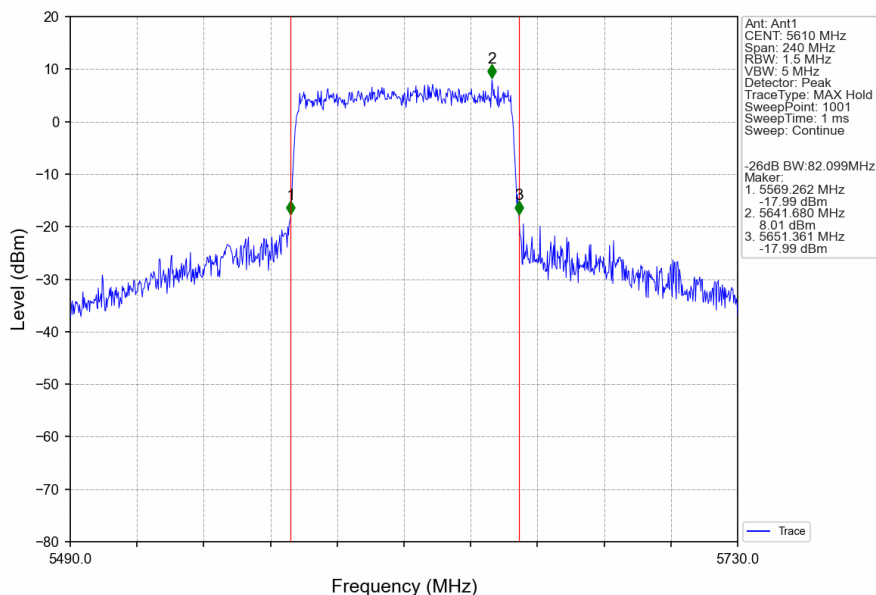
802.11ax(HEW80)_MCH_5290MHz_SU_/_Ant1_NTNV



802.11ax(HEW80)_LCH_5530MHz_SU_/_Ant1_NTNV



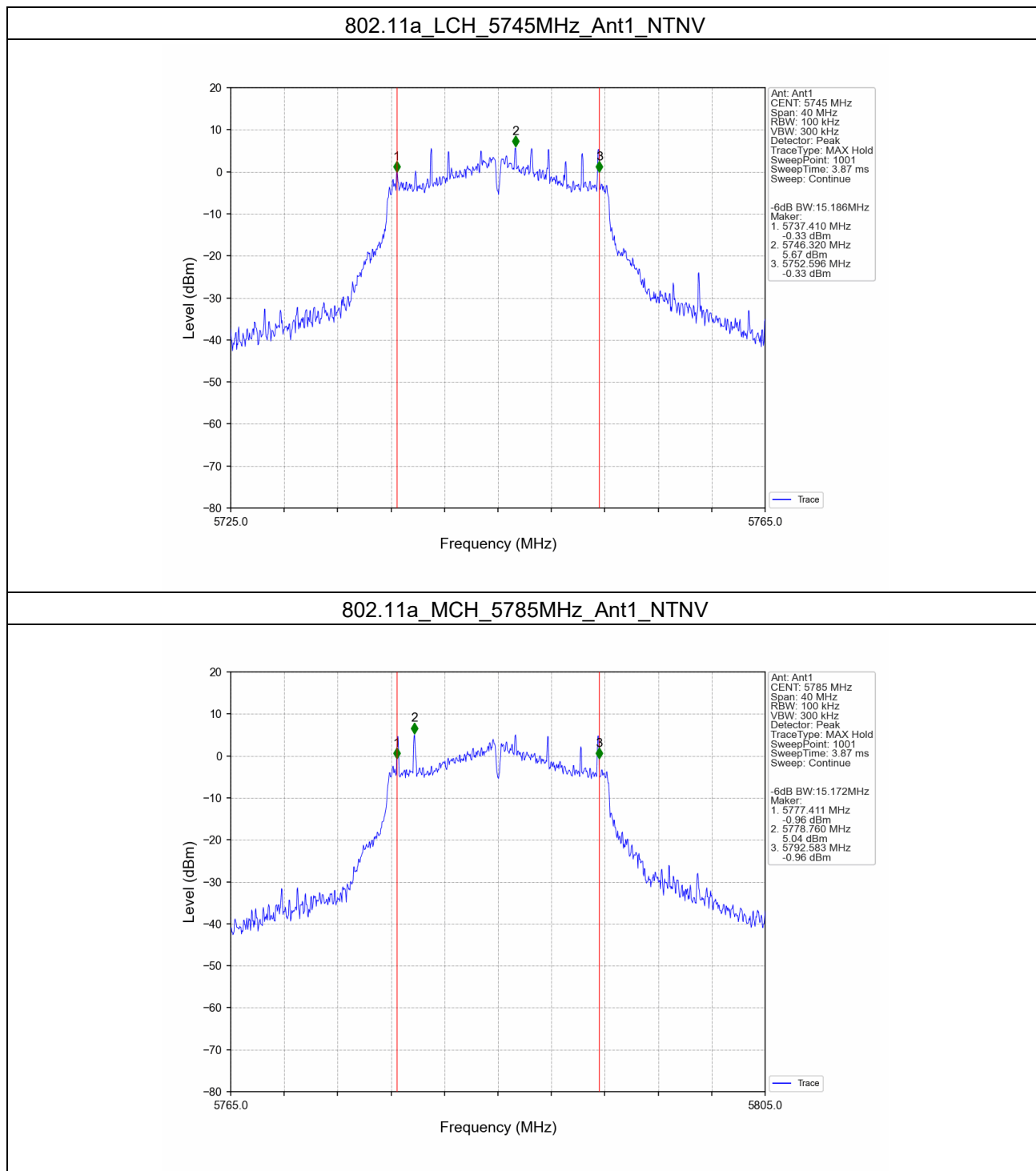
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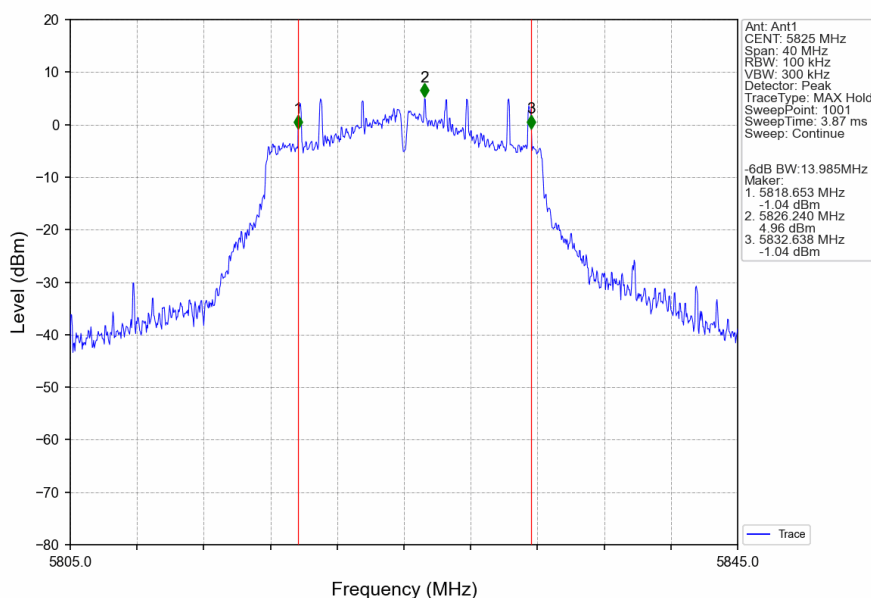
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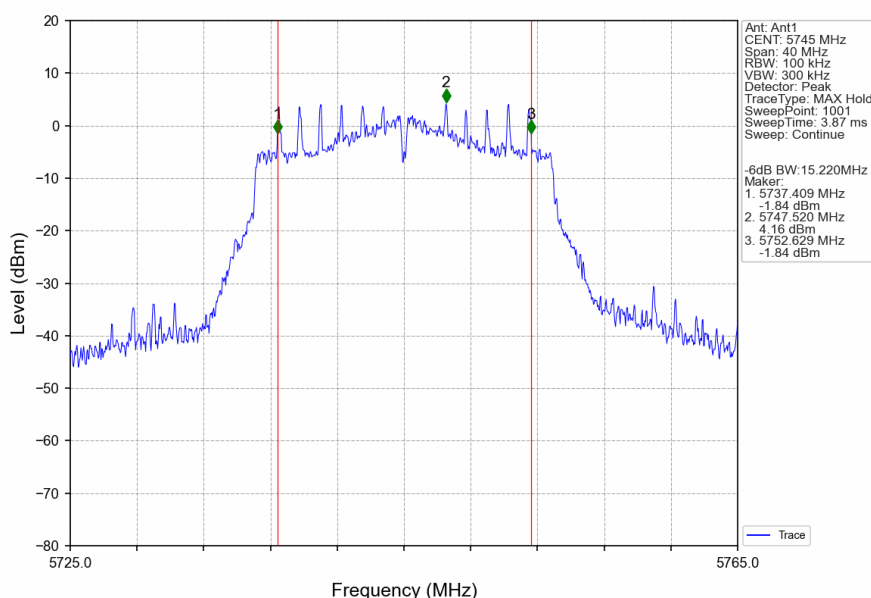
2.2.3 6dB BW



802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



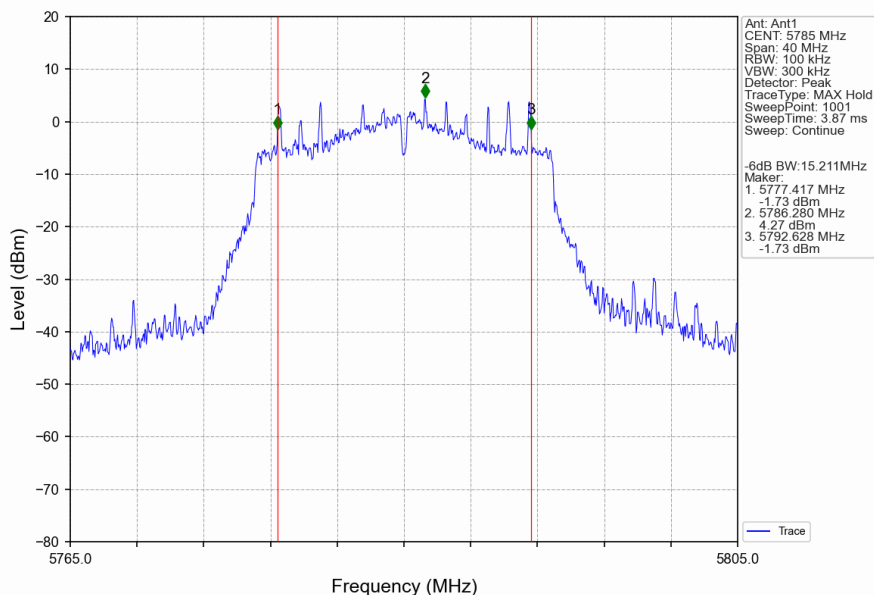
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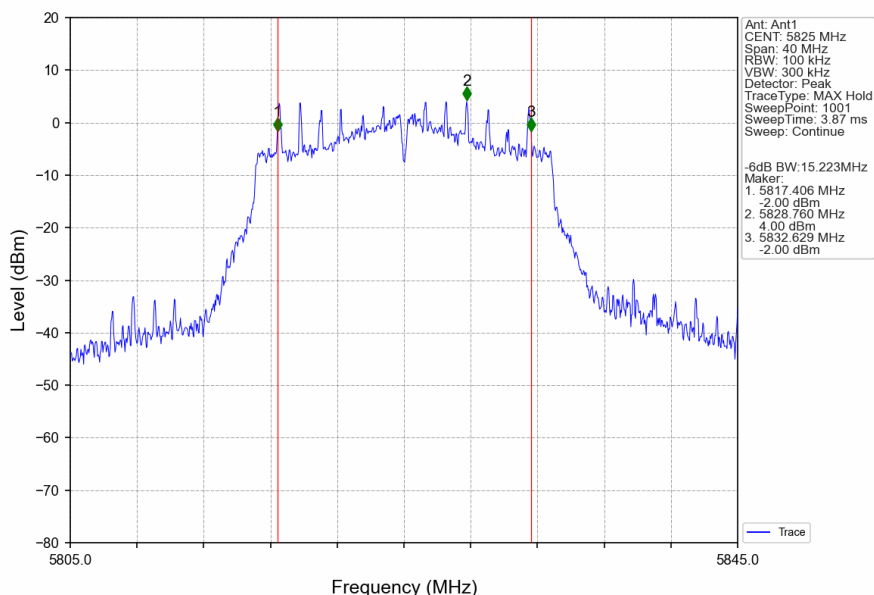
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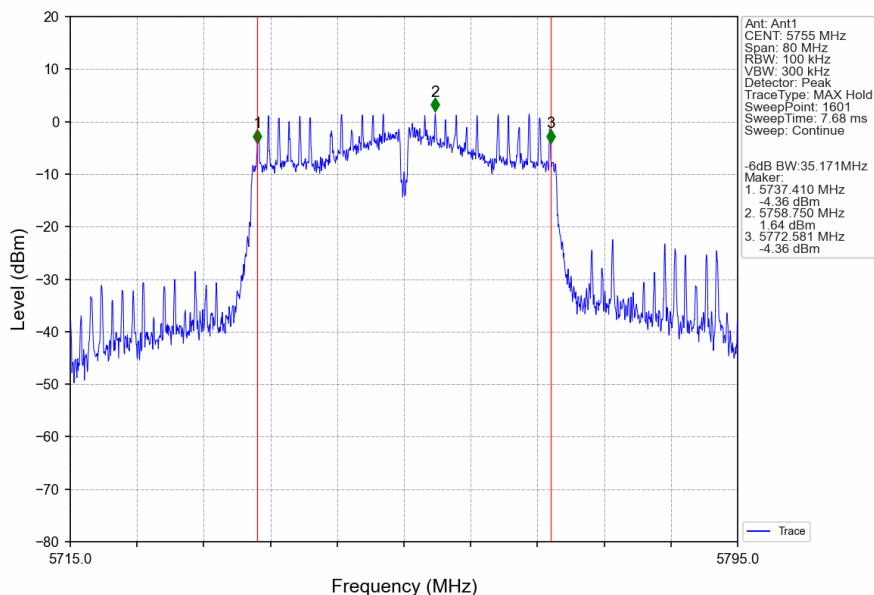
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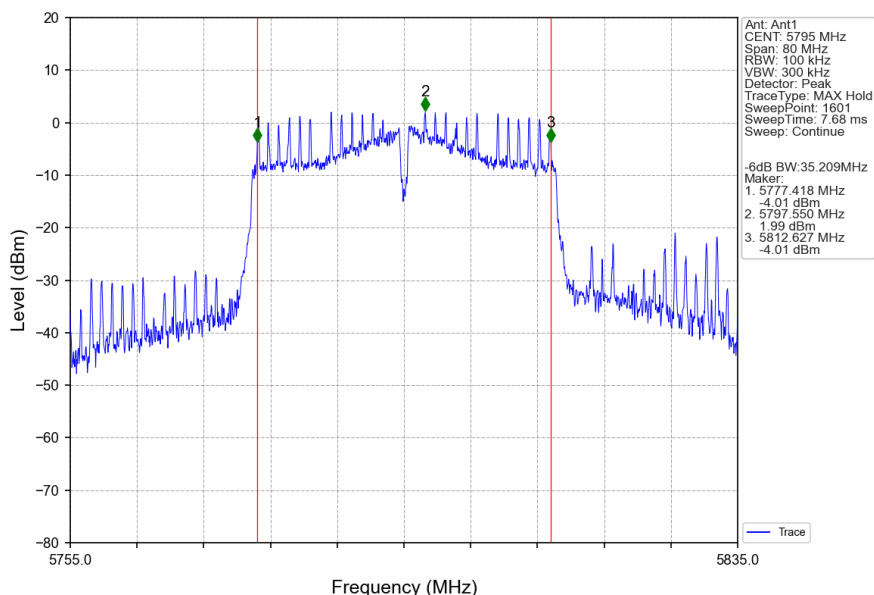
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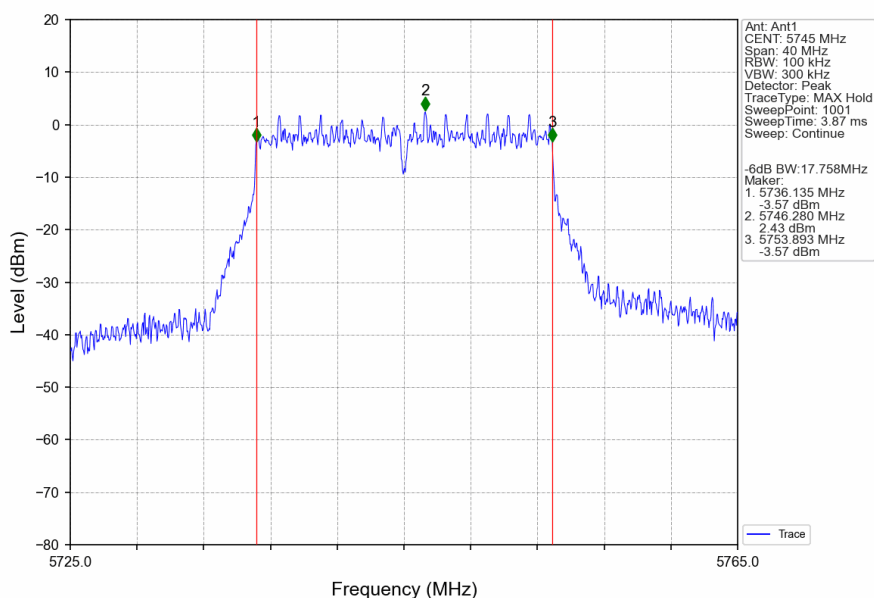
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



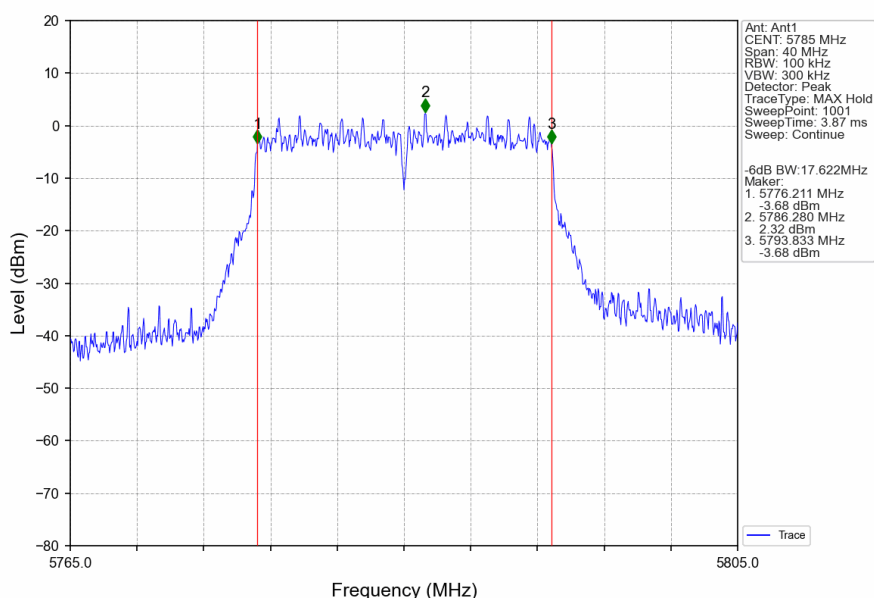
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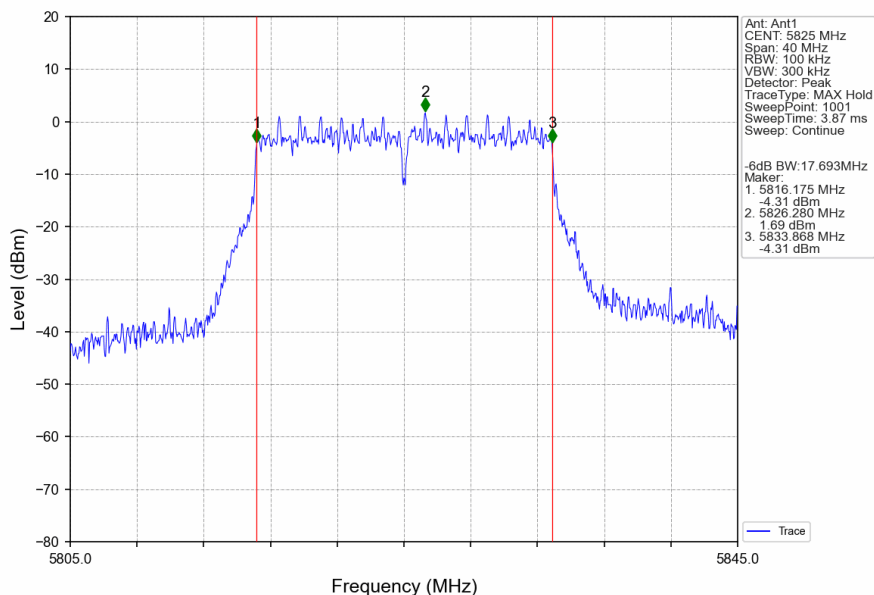
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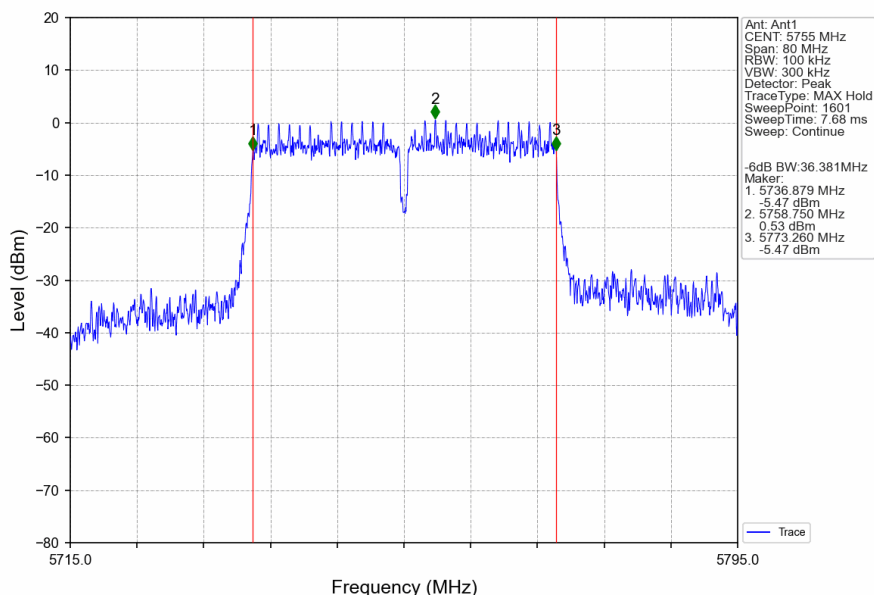
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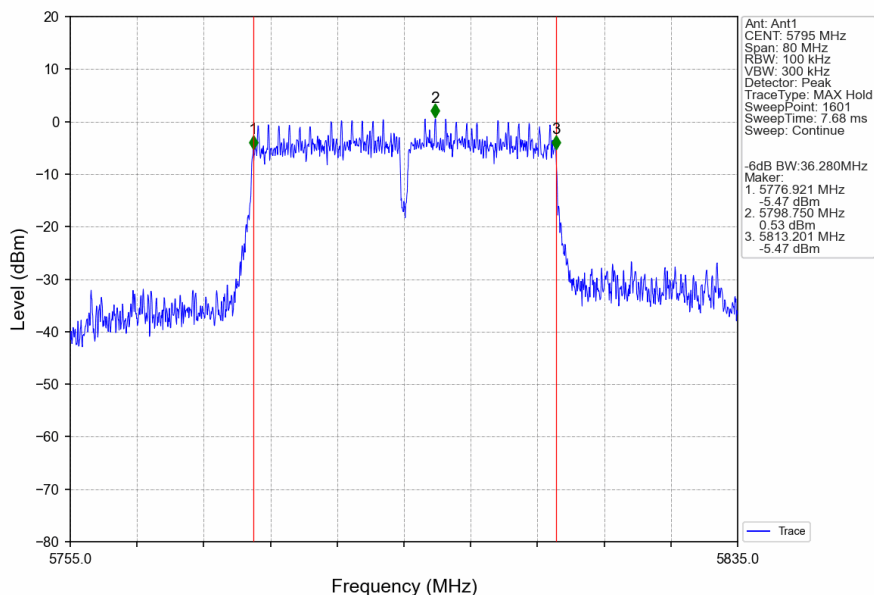
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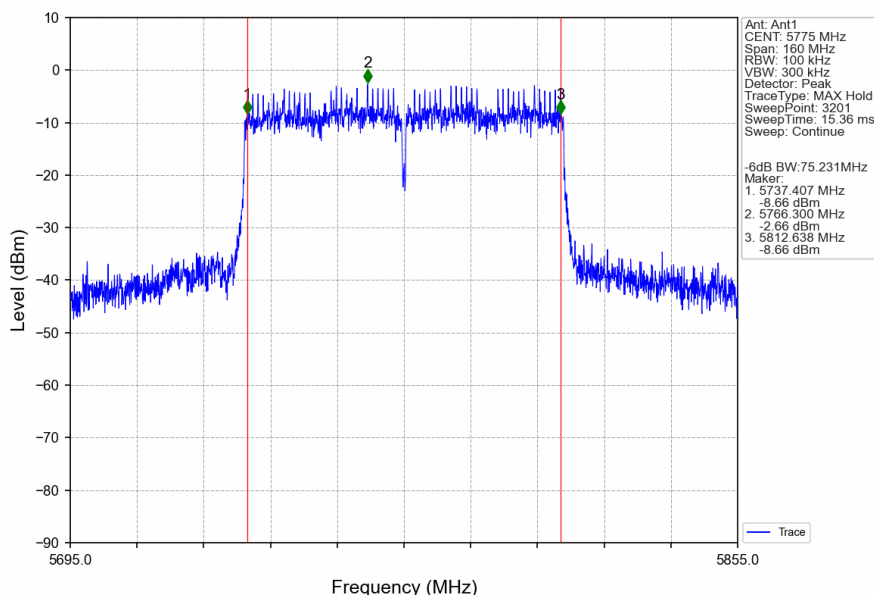
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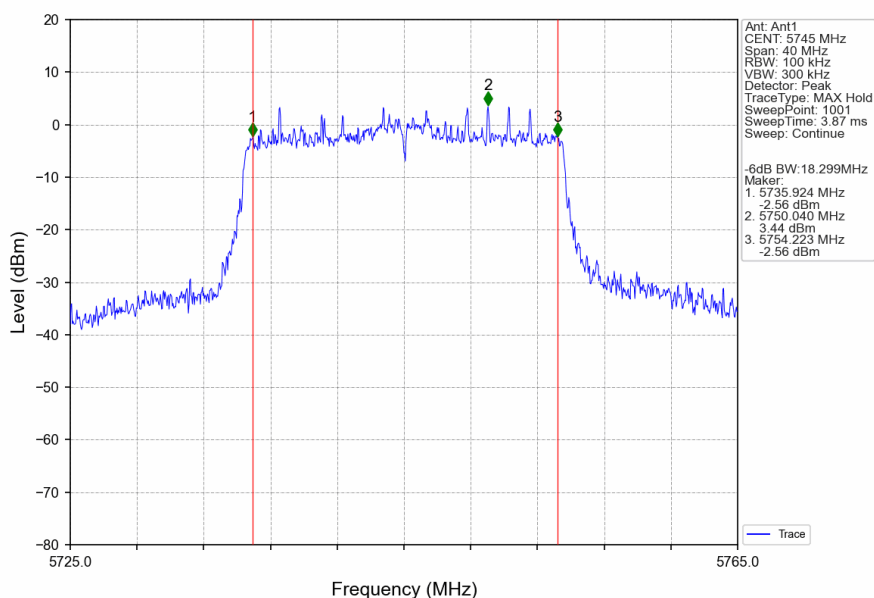
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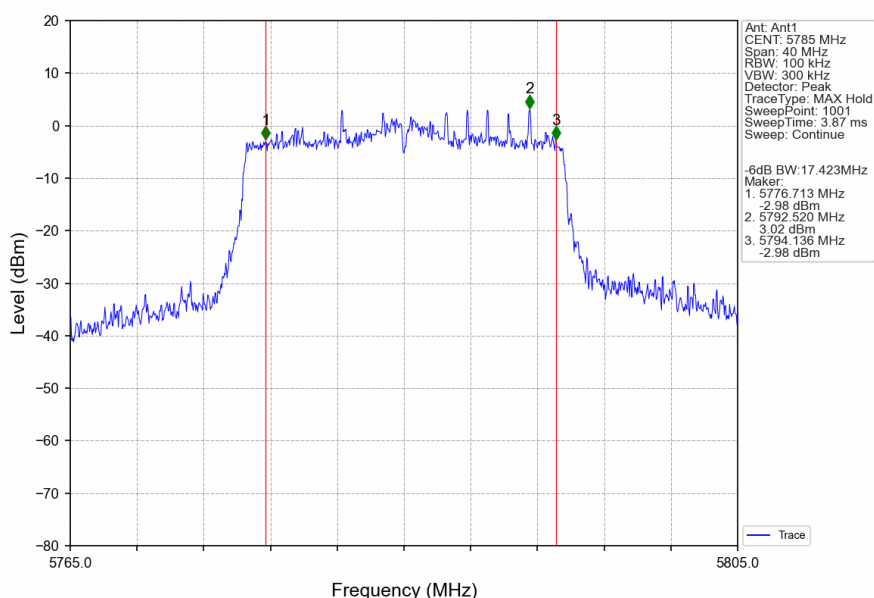
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



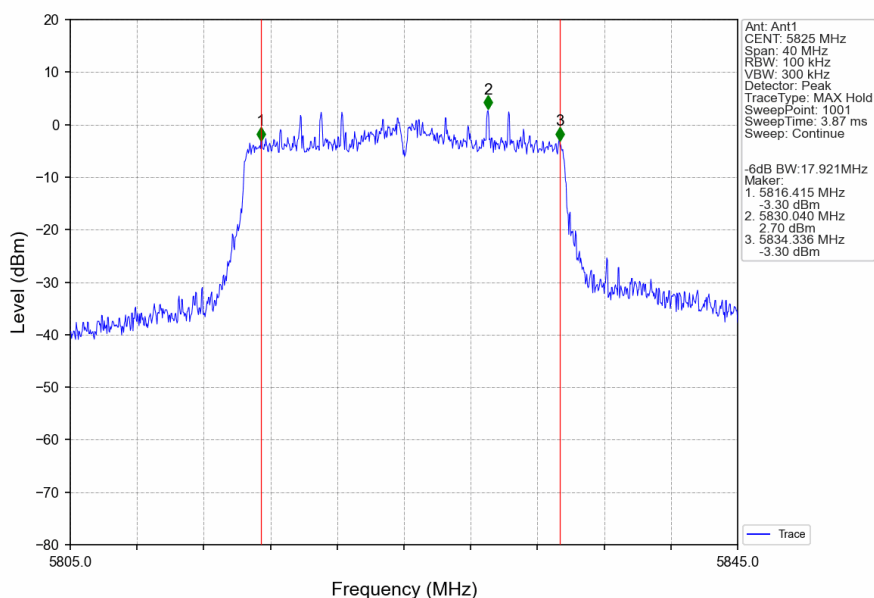
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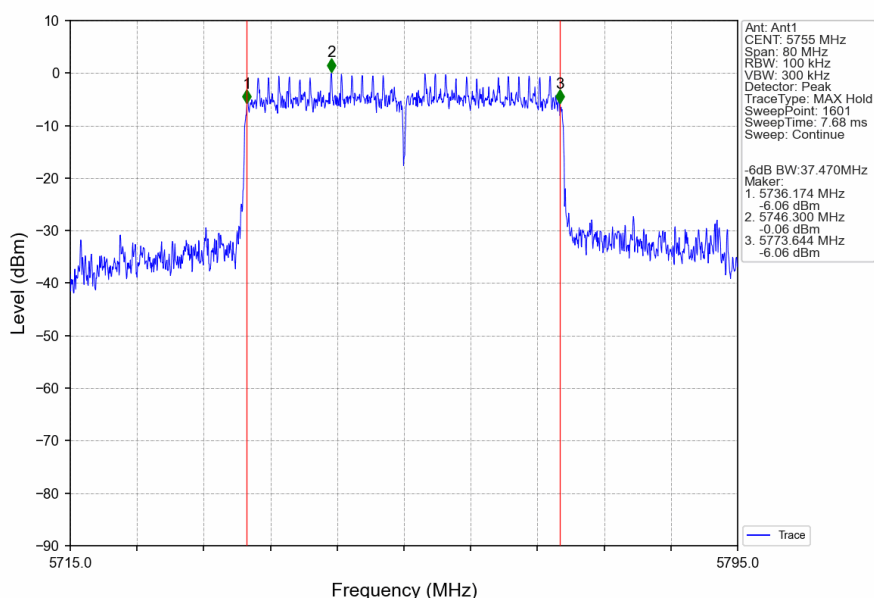
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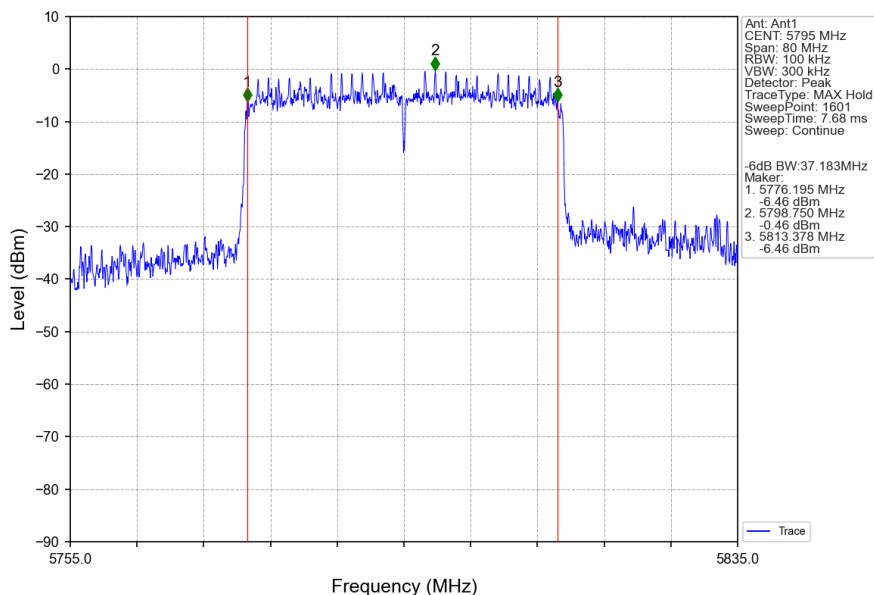
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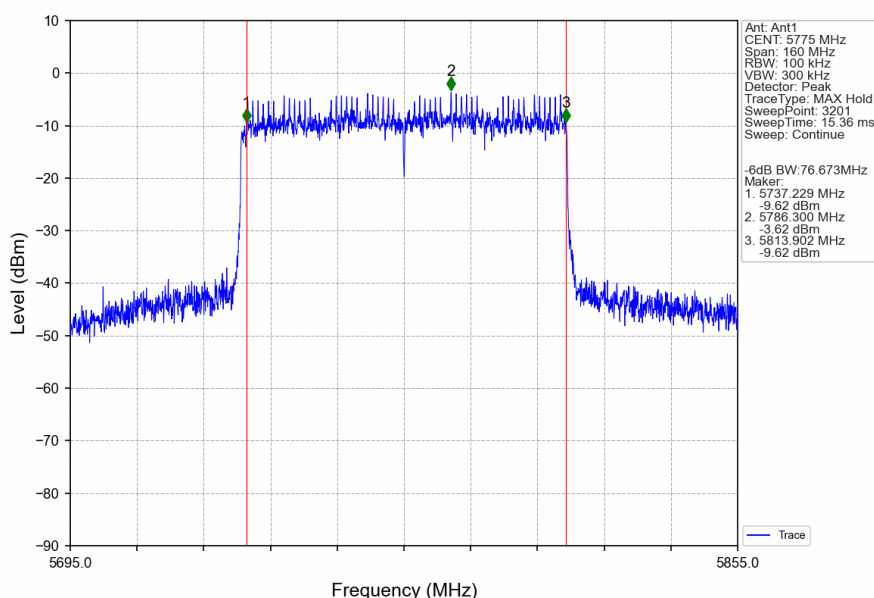
802.11ax(HEW40)_LCH_5755MHz_SU_/_Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_/_Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_SU_/_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11a	MIMO	5180	/	/	11.42	12.68	15.11	<=23.98	Pass
		5200	/	/	11.35	12.15	14.78	<=23.98	Pass
		5240	/	/	11.62	11.77	14.71	<=23.98	Pass
		5260	/	/	13.39	13.03	16.22	<=23.98	Pass
		5300	/	/	13.23	13.14	16.20	<=23.98	Pass
		5320	/	/	13.11	13.36	16.25	<=23.98	Pass
		5500	/	/	13.71	13.85	16.79	<=23.98	Pass
		5580	/	/	13.47	14.21	16.87	<=23.98	Pass
		5700	/	/	13.61	14.35	17.01	<=23.98	Pass
		5745	/	/	12.69	12.88	15.80	<=30	Pass
		5785	/	/	12.99	13.34	16.18	<=30	Pass
		5825	/	/	11.28	12.20	14.77	<=30	Pass
802.11n (HT20)	MIMO	5180	/	/	10.52	11.98	14.32	<=23.98	Pass
		5200	/	/	11.17	12.35	14.81	<=23.98	Pass
		5240	/	/	9.68	10.91	13.35	<=23.98	Pass
		5260	/	/	9.98	11.10	13.59	<=23.98	Pass
		5300	/	/	12.83	13.43	16.15	<=23.98	Pass
		5320	/	/	10.08	11.33	13.76	<=23.98	Pass
		5500	/	/	10.48	12.08	14.36	<=23.98	Pass
		5580	/	/	12.25	13.74	16.07	<=23.98	Pass
		5700	/	/	11.79	12.60	15.22	<=23.98	Pass
		5745	/	/	12.57	12.83	15.71	<=30	Pass
		5785	/	/	13.22	14.19	16.74	<=30	Pass
		5825	/	/	11.16	12.11	14.67	<=30	Pass
802.11n (HT40)	MIMO	5190	/	/	9.29	10.37	12.87	<=23.98	Pass
		5230	/	/	10.20	11.22	13.75	<=23.98	Pass
		5270	/	/	9.79	10.91	13.40	<=23.98	Pass
		5310	/	/	9.62	10.92	13.33	<=23.98	Pass
		5510	/	/	10.38	11.92	14.23	<=23.98	Pass
		5550	/	/	10.64	12.05	14.41	<=23.98	Pass



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		5670	/	/	11.79	12.44	15.14	<=23.98	Pass
		5755	/	/	6.13	5.70	8.93	<=30	Pass
		5795	/	/	7.91	7.28	10.62	<=30	Pass
802.11ac (VHT20)	MIMO	5180	/	/	12.73	13.67	16.24	<=23.98	Pass
		5200	/	/	12.71	13.28	16.01	<=23.98	Pass
		5240	/	/	12.72	13.38	16.07	<=23.98	Pass
		5260	/	/	12.39	13.22	15.84	<=23.98	Pass
		5300	/	/	12.84	13.09	15.98	<=23.98	Pass
		5320	/	/	12.52	13.11	15.84	<=23.98	Pass
		5500	/	/	11.74	13.59	15.77	<=23.98	Pass
		5580	/	/	12.25	13.81	16.11	<=23.98	Pass
		5700	/	/	13.34	13.82	16.60	<=23.98	Pass
		5745	/	/	13.06	13.48	16.29	<=30	Pass
		5785	/	/	13.23	14.37	16.85	<=30	Pass
		5825	/	/	11.71	12.70	15.24	<=30	Pass
802.11ac (VHT40)	MIMO	5190	/	/	12.35	13.23	15.82	<=23.98	Pass
		5230	/	/	12.49	13.20	15.87	<=23.98	Pass
		5270	/	/	11.82	12.76	15.33	<=23.98	Pass
		5310	/	/	11.64	12.67	15.20	<=23.98	Pass
		5510	/	/	12.01	13.56	15.86	<=23.98	Pass
		5550	/	/	12.99	14.45	16.79	<=23.98	Pass
		5670	/	/	13.00	13.60	16.32	<=23.98	Pass
		5755	/	/	9.44	9.40	12.43	<=30	Pass
		5795	/	/	13.51	14.04	16.79	<=30	Pass
802.11ac (VHT80)	MIMO	5210	/	/	12.34	13.25	15.83	<=23.98	Pass
		5290	/	/	12.74	13.65	16.23	<=23.98	Pass
		5530	/	/	12.94	14.42	16.75	<=23.98	Pass
		5610	/	/	9.69	10.13	12.93	<=23.98	Pass
		5775	/	/	13.24	14.36	16.85	<=30	Pass
802.11ax (HEW20)	MIMO	5180	SU	/	12.92	13.85	16.42	<=23.98	Pass
		5200	SU	/	12.92	13.68	16.33	<=23.98	Pass
		5240	SU	/	12.95	13.51	16.25	<=23.98	Pass
		5260	SU	/	12.69	13.46	16.10	<=23.98	Pass
		5300	SU	/	13.14	13.26	16.21	<=23.98	Pass
		5320	SU	/	12.87	13.50	16.21	<=23.98	Pass
		5500	SU	/	11.89	13.93	16.04	<=23.98	Pass
		5580	SU	/	12.42	13.98	16.28	<=23.98	Pass
		5700	SU	/	13.02	13.43	16.24	<=23.98	Pass
		5745	SU	/	6.77	6.37	9.58	<=30	Pass
		5785	SU	/	12.89	13.73	16.34	<=30	Pass



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		5825	SU	/	8.20	9.00	11.63	<=30	Pass
802.11ax (HEW40)	MIMO	5190	SU	/	12.39	13.34	15.90	<=23.98	Pass
		5230	SU	/	12.22	13.25	15.78	<=23.98	Pass
		5270	SU	/	12.22	13.00	15.64	<=23.98	Pass
		5310	SU	/	12.19	13.21	15.74	<=23.98	Pass
		5510	SU	/	12.09	13.65	15.95	<=23.98	Pass
		5550	SU	/	12.17	13.20	15.73	<=23.98	Pass
		5670	SU	/	13.17	13.69	16.45	<=23.98	Pass
		5755	SU	/	9.54	9.51	12.54	<=30	Pass
		5795	SU	/	13.80	14.35	17.09	<=30	Pass
802.11ax (HEW80)	MIMO	5210	SU	/	12.22	12.90	15.58	<=23.98	Pass
		5290	SU	/	10.70	11.86	14.33	<=23.98	Pass
		5530	SU	/	13.23	14.18	16.74	<=23.98	Pass
		5610	SU	/	13.58	14.50	17.07	<=23.98	Pass
		5775	SU	/	12.67	13.22	15.96	<=30	Pass

Note1: Antenna Gain:

- Band: 1 Ant1: 3.60dBi;
- Band: 3 Ant1: 3.80dBi;
- Band: 2A Ant1: 3.50dBi;
- Band: 2C Ant1: 3.50dBi;
- Band: 1 Ant2: 3.30dBi;
- Band: 3 Ant2: 3.80dBi;
- Band: 2A Ant2: 3.50dBi;
- Band: 2C Ant2: 3.50dBi;

Note2: Directional Gain: 3.6dBi, 3.5dBi, 3.8dBi

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11a	MIMO	5180	/	/	2.76	3.84	6.23	<=10.39	Pass
		5200	/	/	2.61	3.54	5.99	<=10.39	Pass
		5240	/	/	2.87	3.06	5.82	<=10.39	Pass
		5260	/	/	4.48	4.31	7.39	<=10.49	Pass
		5300	/	/	4.66	4.62	7.45	<=10.49	Pass
		5320	/	/	4.40	4.69	7.43	<=10.49	Pass
		5500	/	/	4.99	5.31	8.10	<=10.49	Pass
		5580	/	/	4.66	5.61	8.11	<=10.49	Pass
		5700	/	/	4.92	5.54	8.21	<=10.49	Pass



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802.11n (HT20)	MIMO	5180	/	/	1.55	3.03	5.32	<=10.39	Pass
		5200	/	/	2.52	3.49	5.92	<=10.39	Pass
		5240	/	/	0.66	1.97	4.32	<=10.39	Pass
		5260	/	/	1.15	2.13	4.67	<=10.49	Pass
		5300	/	/	3.87	4.75	7.18	<=10.49	Pass
		5320	/	/	1.14	2.02	4.55	<=10.49	Pass
		5500	/	/	1.59	2.97	5.20	<=10.49	Pass
		5580	/	/	3.28	4.73	7.07	<=10.49	Pass
		5700	/	/	2.98	3.77	6.26	<=10.49	Pass
802.11n (HT40)	MIMO	5190	/	/	-2.22	-1.45	1.08	<=10.39	Pass
		5230	/	/	-1.64	-0.54	1.95	<=10.39	Pass
		5270	/	/	-1.79	-0.89	1.70	<=10.49	Pass
		5310	/	/	-1.98	-1.10	1.49	<=10.49	Pass
		5510	/	/	-1.63	-0.04	2.22	<=10.49	Pass
		5550	/	/	-0.98	0.36	2.67	<=10.49	Pass
		5670	/	/	0.15	0.67	3.32	<=10.49	Pass
802.11ac (VHT20)	MIMO	5180	/	/	1.49	2.69	4.82	<=10.39	Pass
		5200	/	/	1.62	2.22	4.74	<=10.39	Pass
		5240	/	/	1.77	2.56	4.81	<=10.39	Pass
		5260	/	/	1.15	1.98	4.37	<=10.49	Pass
		5300	/	/	1.60	2.18	4.75	<=10.49	Pass
		5320	/	/	1.33	2.25	4.67	<=10.49	Pass
		5500	/	/	0.54	2.26	4.39	<=10.49	Pass
		5580	/	/	1.31	2.38	4.82	<=10.49	Pass
802.11ac (VHT40)	MIMO	5700	/	/	1.99	2.68	5.20	<=10.49	Pass
		5190	/	/	-1.75	-0.79	1.64	<=10.39	Pass
		5230	/	/	-1.60	-0.51	1.63	<=10.39	Pass
		5270	/	/	-2.16	-1.04	1.09	<=10.49	Pass
		5310	/	/	-2.29	-1.31	1.01	<=10.49	Pass
		5510	/	/	-2.02	-0.43	1.65	<=10.49	Pass
		5550	/	/	-1.19	0.54	2.57	<=10.49	Pass
		5670	/	/	-0.85	-0.14	2.07	<=10.49	Pass
802.11ac (VHT80)	MIMO	5210	/	/	-4.54	-3.51	-1.18	<=10.39	Pass
		5290	/	/	-4.15	-3.25	-0.76	<=10.49	Pass
		5530	/	/	-3.49	-2.15	-0.21	<=10.49	Pass
		5610	/	/	-7.18	-6.45	-3.96	<=10.49	Pass
802.11ax (HEW20)	MIMO	5180	SU	/	2.62	3.50	6.04	<=10.39	Pass
		5200	SU	/	2.49	3.32	5.90	<=10.39	Pass
		5240	SU	/	2.68	3.17	5.94	<=10.39	Pass
		5260	SU	/	2.32	3.13	5.70	<=10.49	Pass



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		5300	SU	/	3.11	3.14	5.96	<=10.49	Pass
		5320	SU	/	2.63	3.27	5.86	<=10.49	Pass
		5500	SU	/	1.47	3.47	5.49	<=10.49	Pass
		5580	SU	/	2.12	3.55	5.79	<=10.49	Pass
		5700	SU	/	2.90	3.22	5.94	<=10.49	Pass
802.11ax (HEW40)	MIMO	5190	SU	/	-1.63	-0.74	1.69	<=10.39	Pass
		5230	SU	/	-1.83	-0.88	1.48	<=10.39	Pass
		5270	SU	/	-2.12	-0.87	1.33	<=10.49	Pass
		5310	SU	/	-1.82	-0.44	1.65	<=10.49	Pass
		5510	SU	/	-1.75	-0.22	1.68	<=10.49	Pass
		5550	SU	/	-1.79	-0.24	2.07	<=10.49	Pass
		5670	SU	/	-0.85	-0.53	2.23	<=10.49	Pass
802.11ax (HEW80)	MIMO	5210	SU	/	-4.85	-3.66	-1.45	<=10.39	Pass
		5290	SU	/	-5.81	-4.78	-2.63	<=10.49	Pass
		5530	SU	/	-3.83	-2.23	-0.22	<=10.49	Pass
		5610	SU	/	-2.92	-2.63	0.04	<=10.49	Pass

Note1: Antenna Gain:

- Band: 1 Ant1: 3.60dBi;
- Band: 3 Ant1: 3.80dBi;
- Band: 2A Ant1: 3.50dBi;
- Band: 2C Ant1: 3.50dBi;
- Band: 2A Ant2: 3.50dBi;
- Band: 2C Ant2: 3.50dBi;
- Band: 1 Ant2: 3.30dBi;
- Band: 3 Ant2: 3.80dBi;

4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11a	MIMO	5745	/	/	2.21	2.48	5.30	<=29.19	Pass
		5785	/	/	2.35	2.76	5.45	<=29.19	Pass
		5825	/	/	0.92	1.86	4.43	<=29.19	Pass
802.11n (HT20)	MIMO	5745	/	/	1.90	2.07	4.96	<=29.19	Pass
		5785	/	/	2.33	3.19	5.61	<=29.19	Pass
		5825	/	/	0.41	1.43	3.90	<=29.19	Pass
802.11n (HT40)	MIMO	5755	/	/	-7.61	-7.92	-4.75	<=29.19	Pass
		5795	/	/	-5.97	-6.66	-3.31	<=29.19	Pass
802.11ac (VHT20)	MIMO	5745	/	/	0.37	0.85	3.29	<=29.19	Pass
		5785	/	/	-0.46	1.44	3.16	<=29.19	Pass
		5825	/	/	-1.37	-0.10	2.27	<=29.19	Pass
802.11ac	MIMO	5755	/	/	-5.91	-5.95	-3.29	<=29.19	Pass



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(VHT40)		5795	/	/	-1.53	-1.03	1.50	<=29.19	Pass
802.11ac (VHT80)	MIMO	5775	/	/	-5.44	-4.34	-2.29	<=29.19	Pass
802.11ax (HEW20)	MIMO	5745	SU	/	-6.07	-6.39	-3.55	<=29.19	Pass
		5785	SU	/	-0.06	1.01	3.42	<=29.19	Pass
		5825	SU	/	-4.43	-4.07	-1.27	<=29.19	Pass
802.11ax (HEW40)	MIMO	5755	SU	/	-6.10	-6.00	-3.39	<=29.19	Pass
		5795	SU	/	-1.44	-0.56	1.87	<=29.19	Pass
802.11ax (HEW80)	MIMO	5775	SU	/	-5.87	-5.17	-2.79	<=29.19	Pass

Note1: Antenna Gain:

- Band: 1 Ant1: 3.60dBi;
- Band: 3 Ant1: 3.80dBi;
- Band: 2A Ant1: 3.50dBi;
- Band: 2C Ant1: 3.50dBi;
- Band: 3 Ant2: 3.80dBi;
- Band: 2A Ant2: 3.50dBi;
- Band: 2C Ant2: 3.50dBi;
- Band: 1 Ant2: 3.30dBi;

Note2: Directional Gain: Band1: 6.61dBi, Band2A: 6.51dBi, Band2C: 6.51dBi, Band3: 6.81dBi



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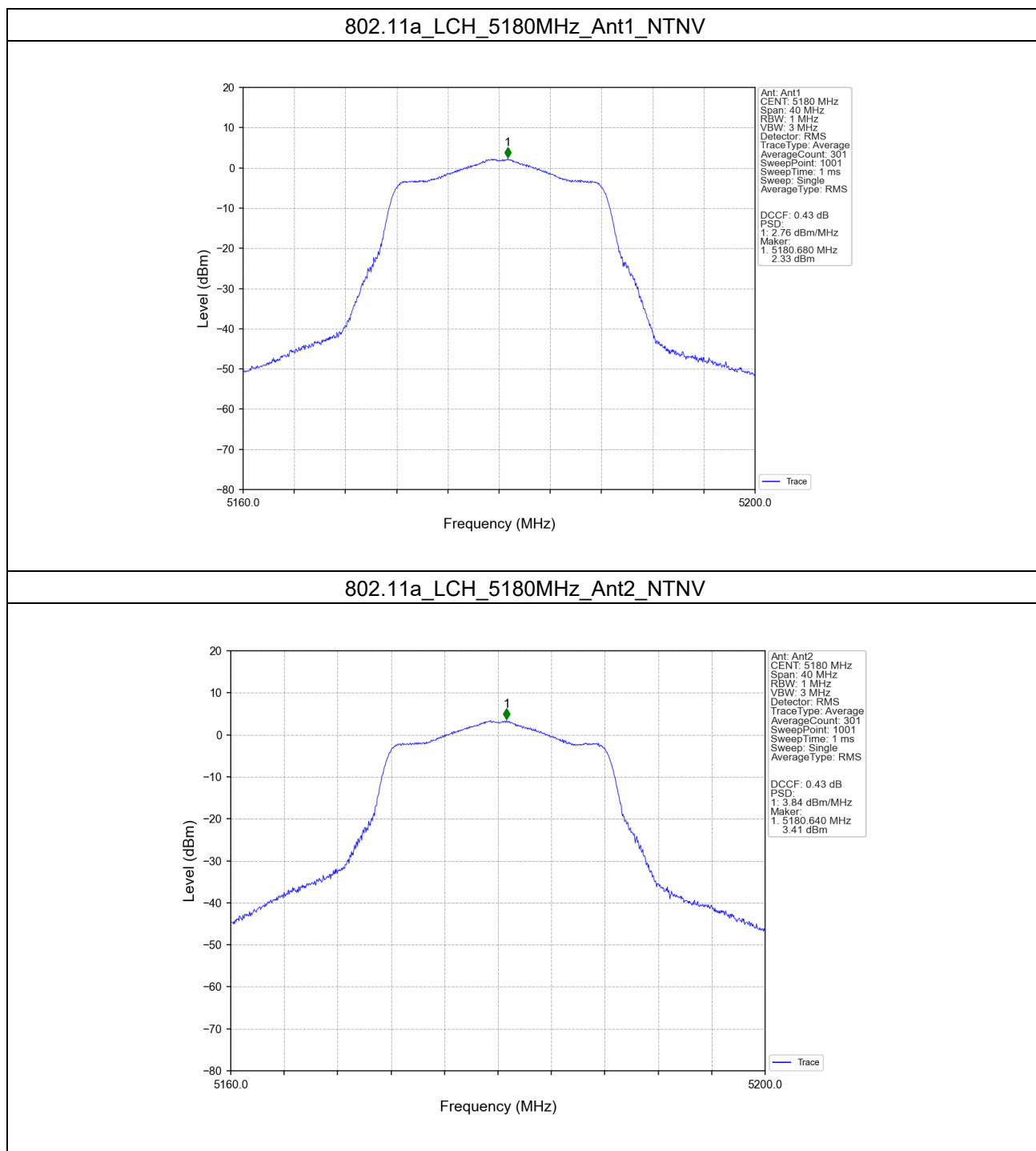
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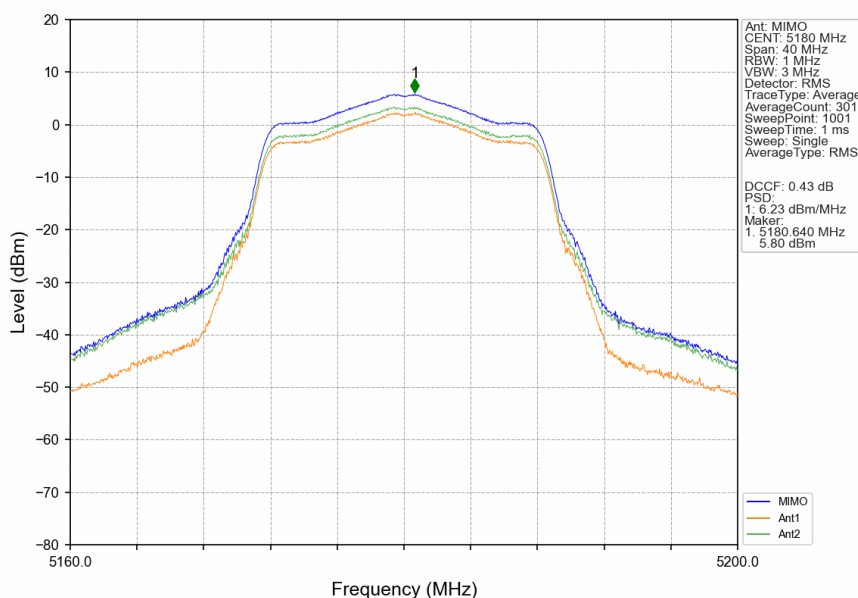
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4.2 Test Graph

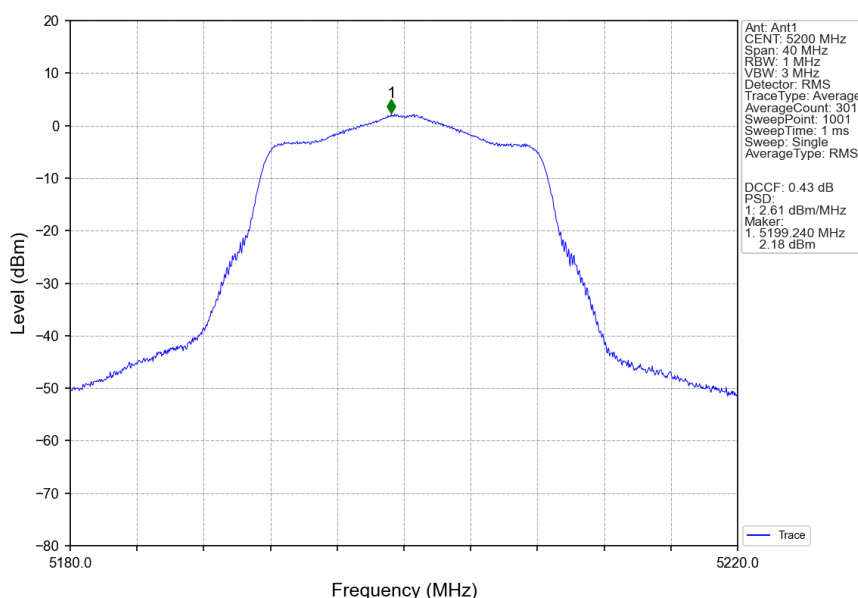
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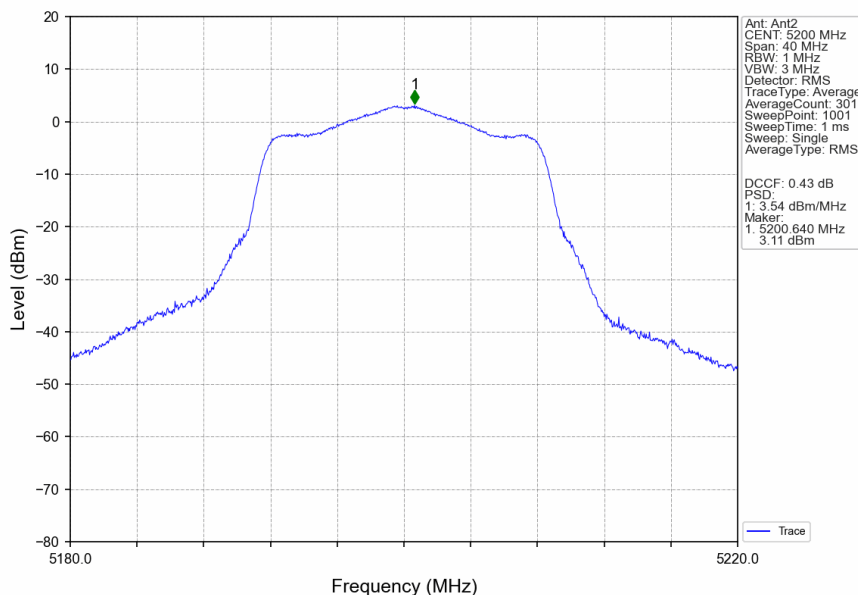
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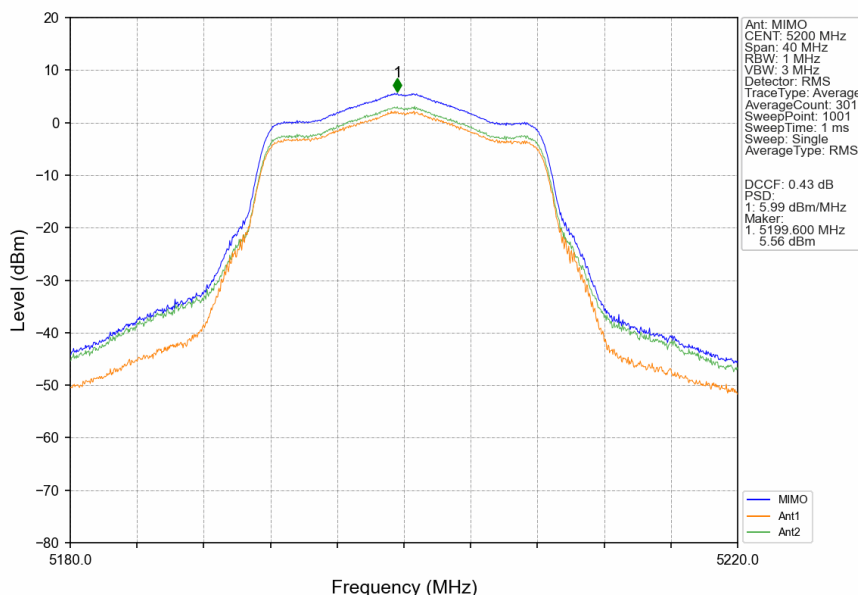
802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV



802.11a_MCH_5200MHz_MIMO_NTNV



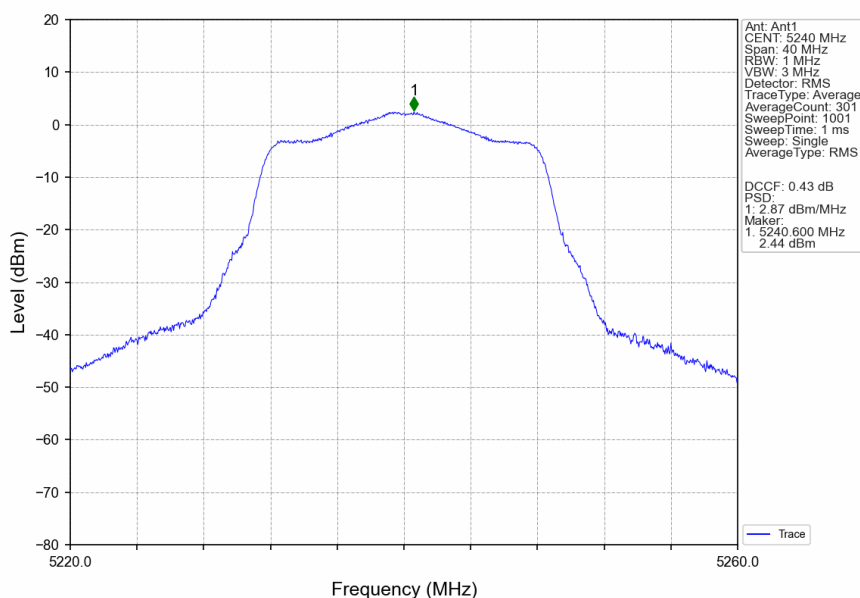
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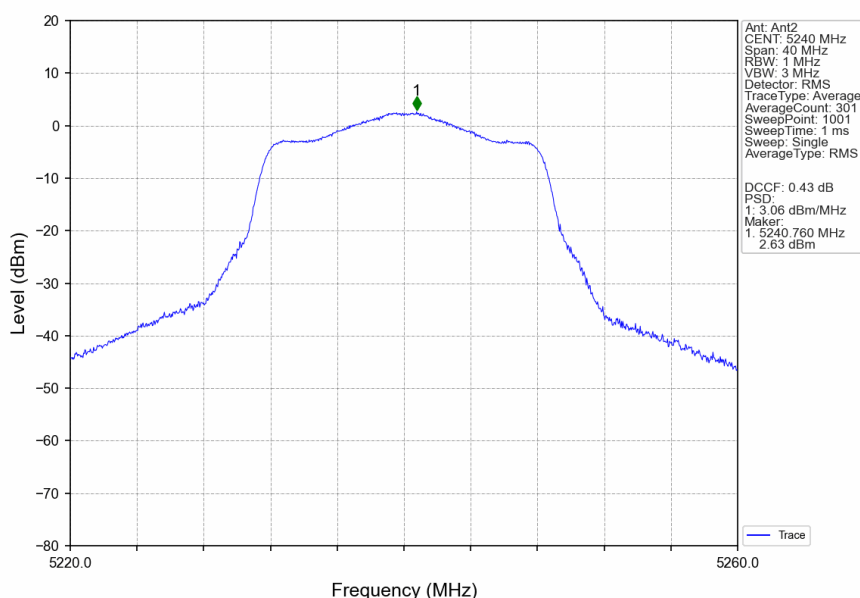
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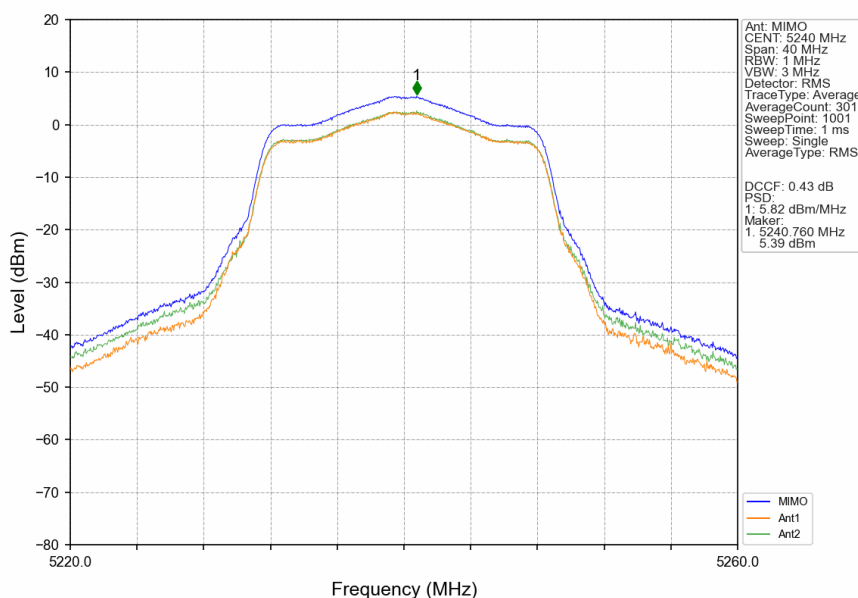
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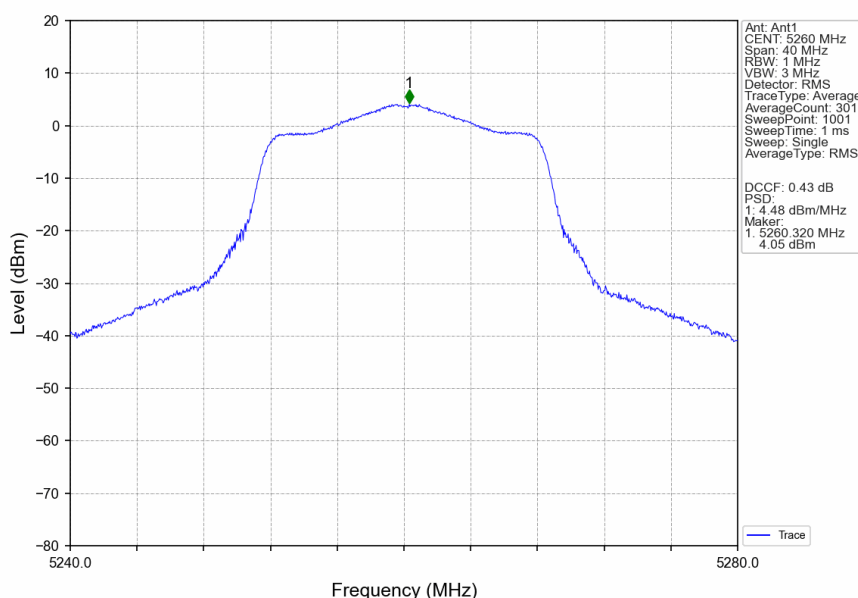
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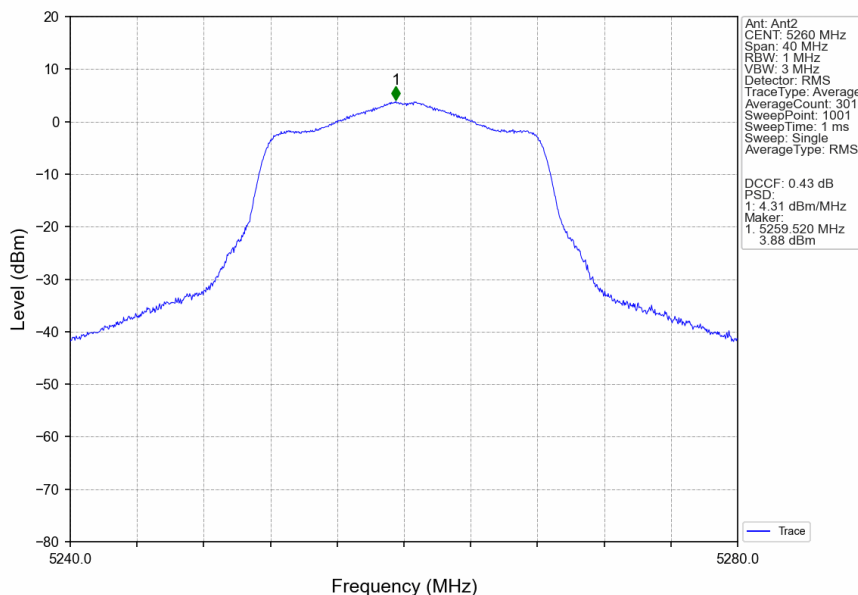
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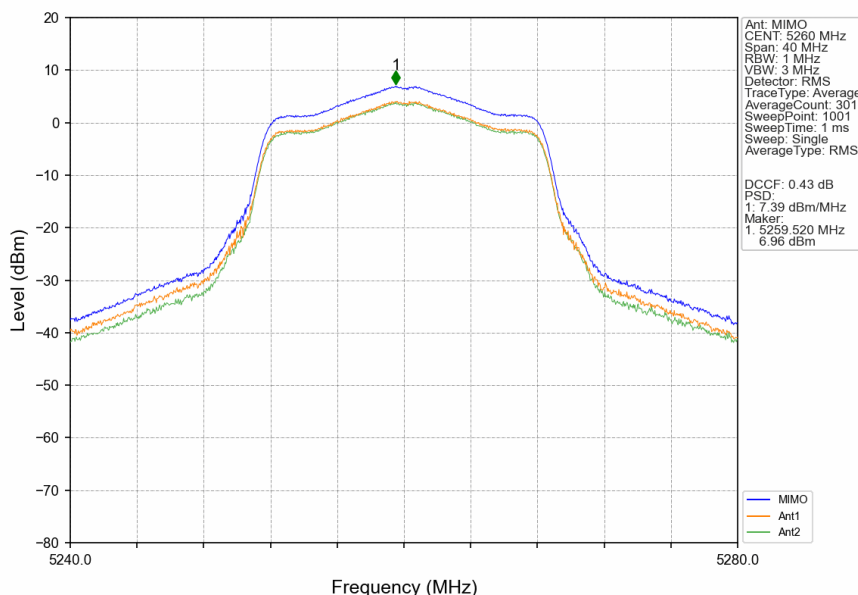
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802.11a_LCH_5260MHz_Ant2_NTNV



802.11a_LCH_5260MHz_MIMO_NTNV



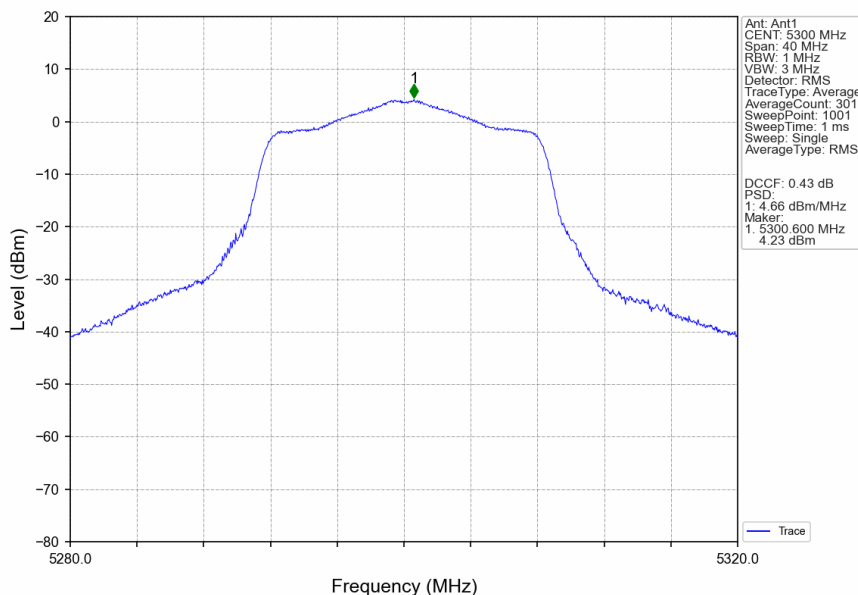
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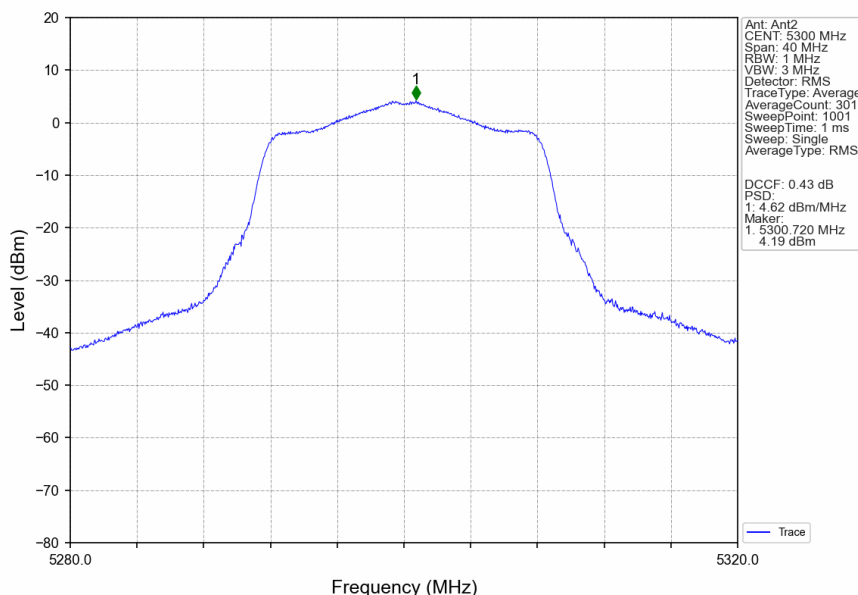
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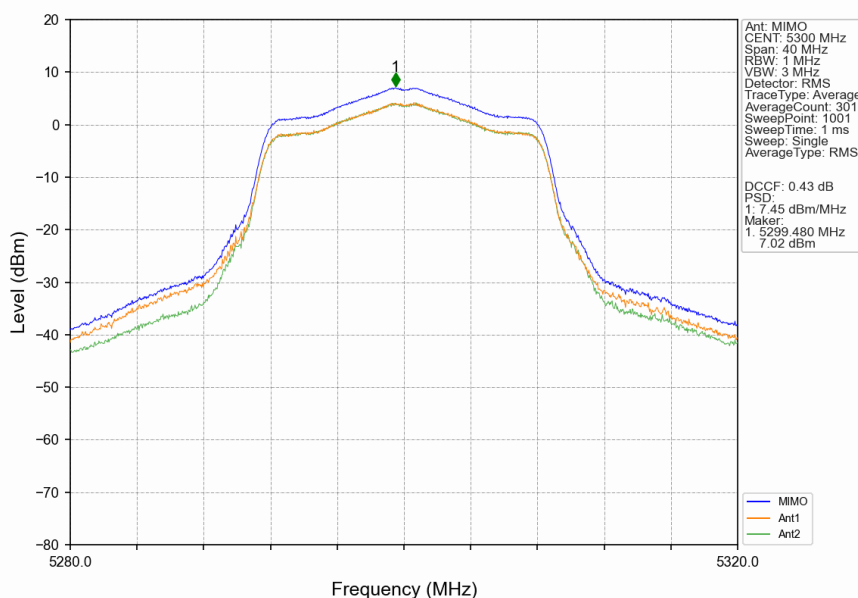
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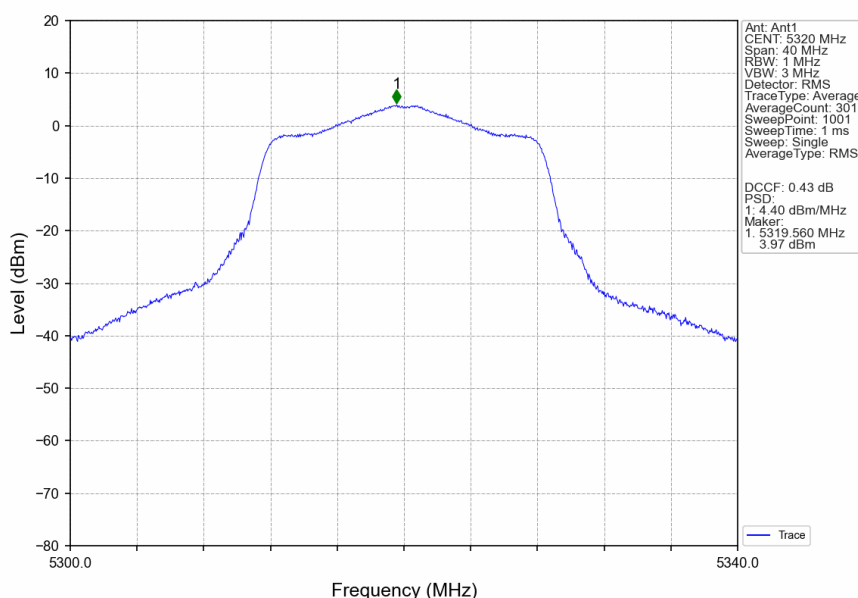
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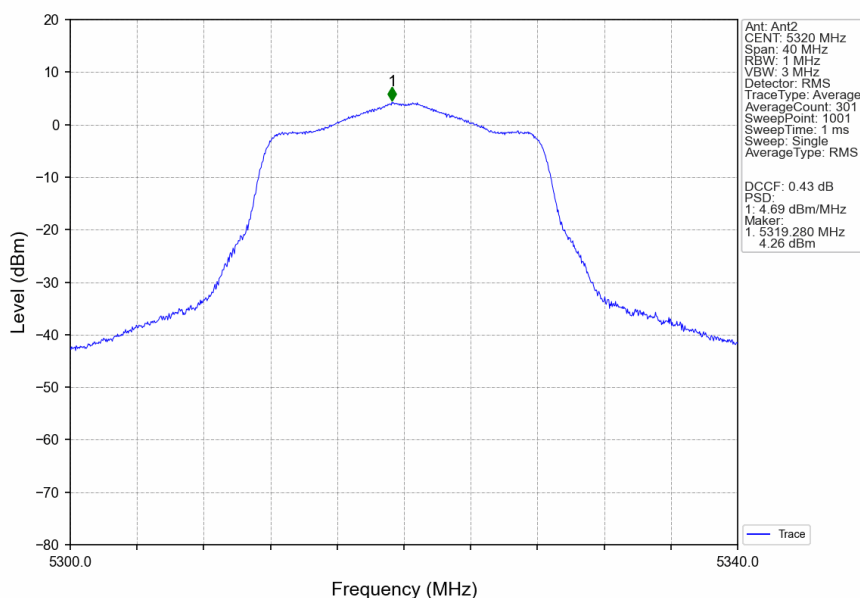
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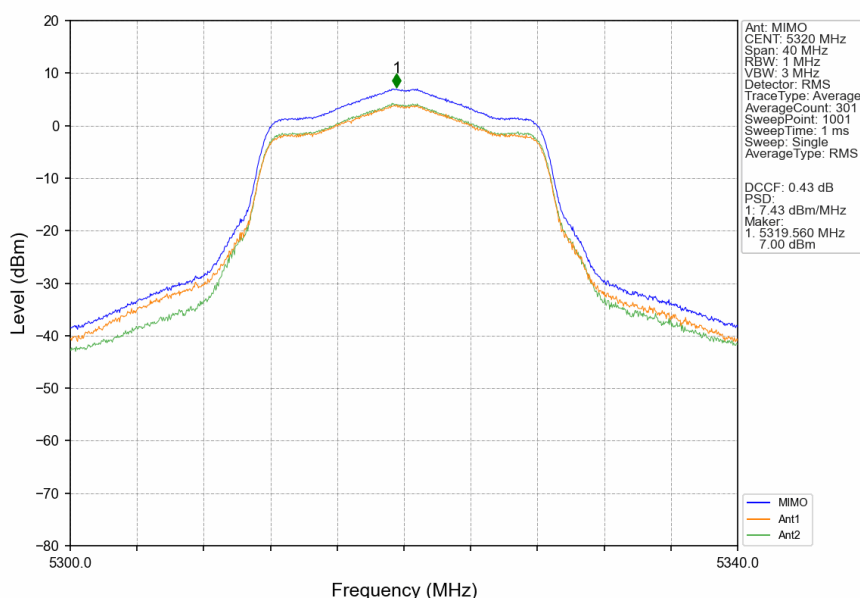
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802.11a_HCH_5320MHz_Ant2_NTNV



802.11a_HCH_5320MHz_MIMO_NTNV



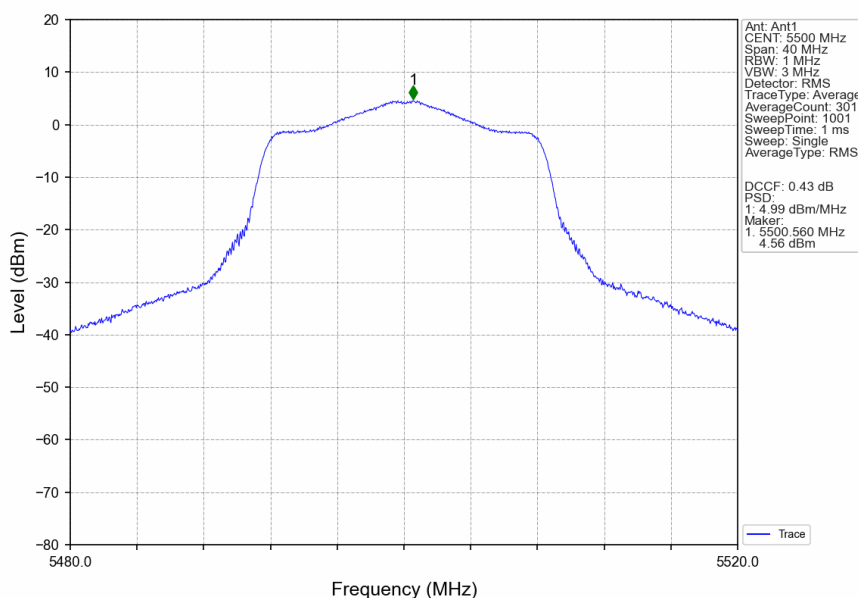
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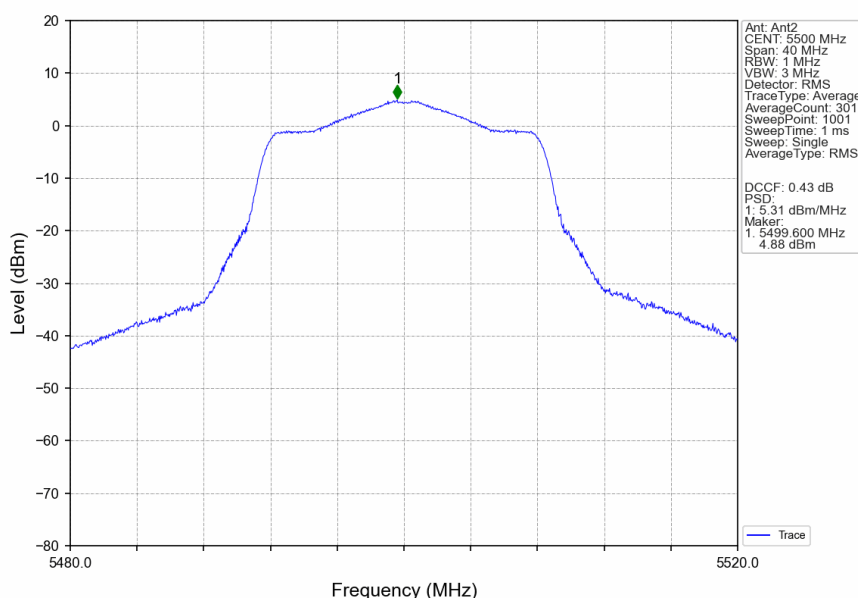
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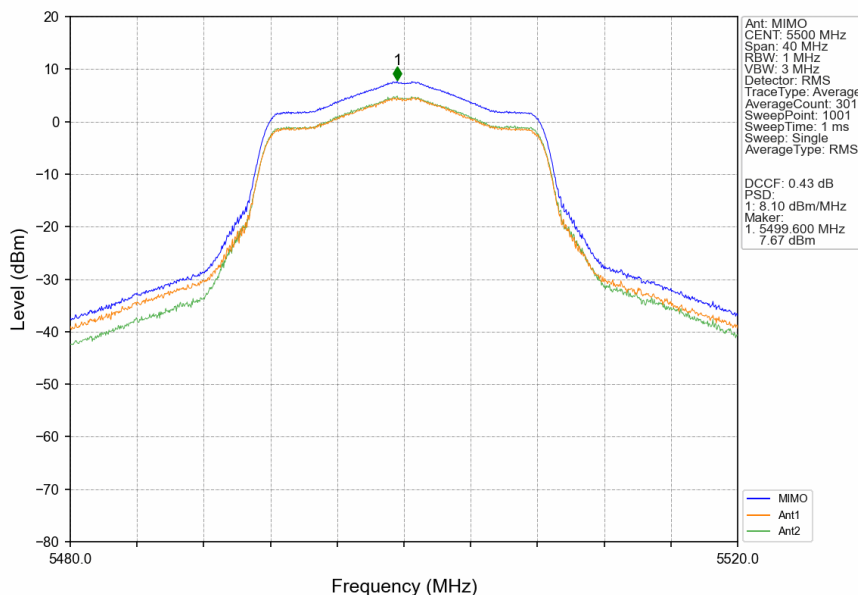
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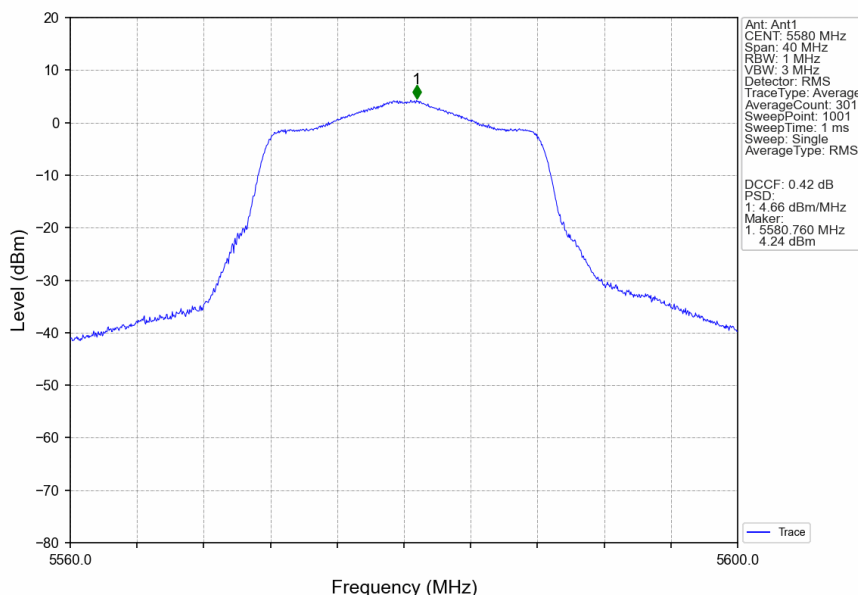
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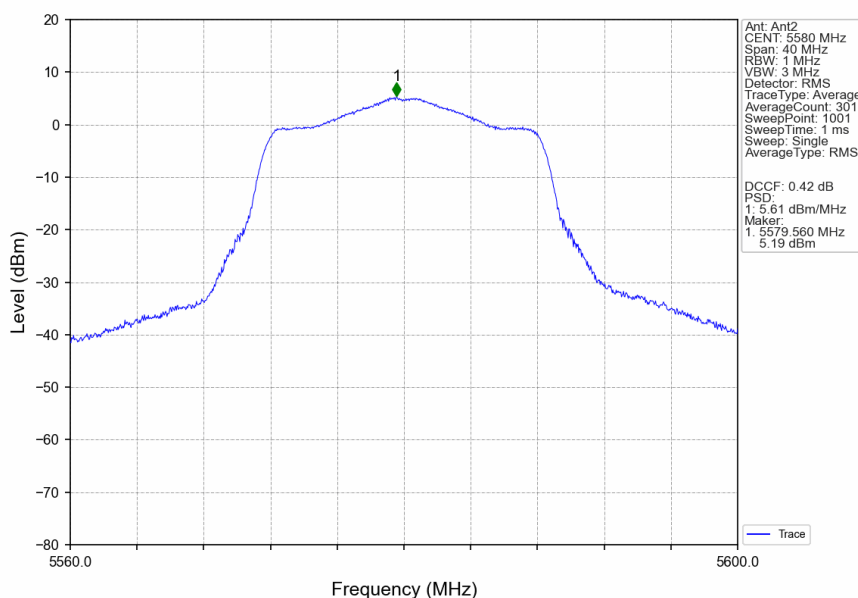
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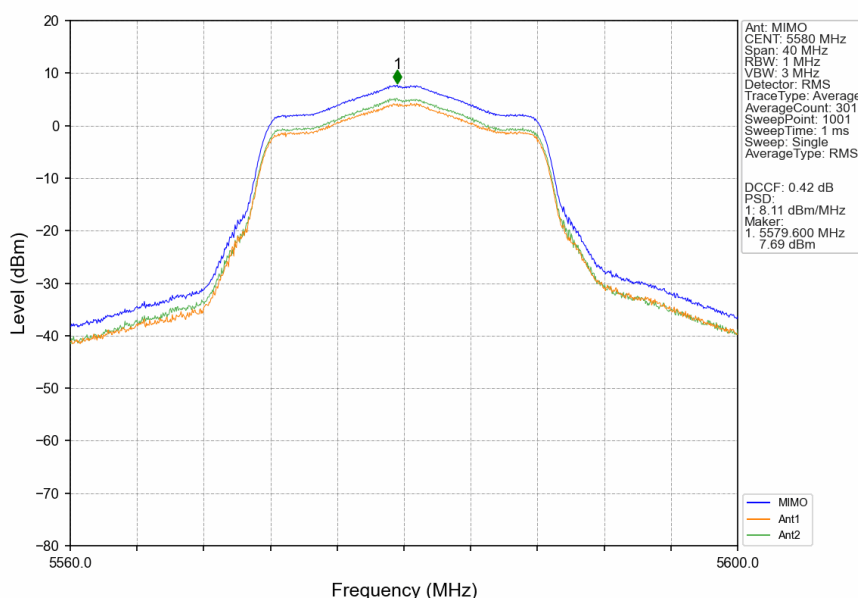
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802.11a_MCH_5580MHz_Ant2_NTNV



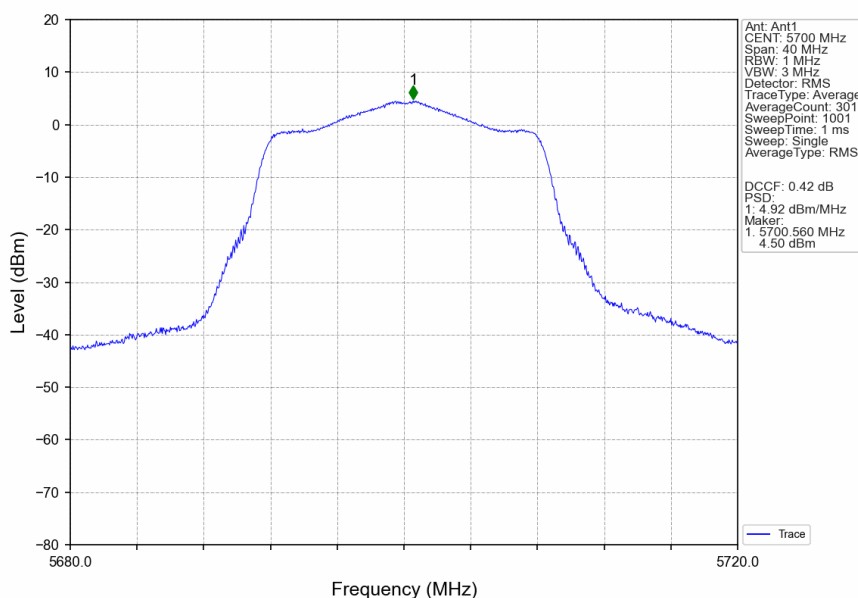
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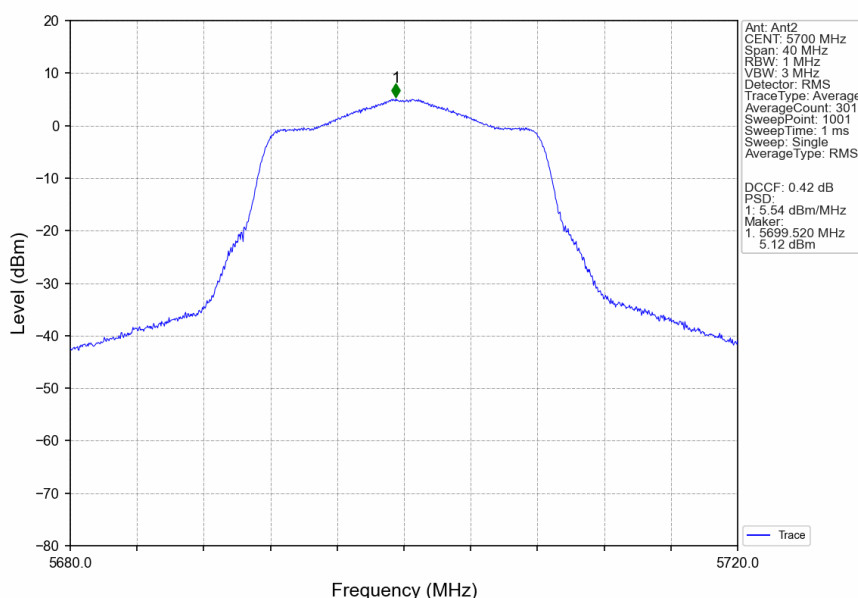
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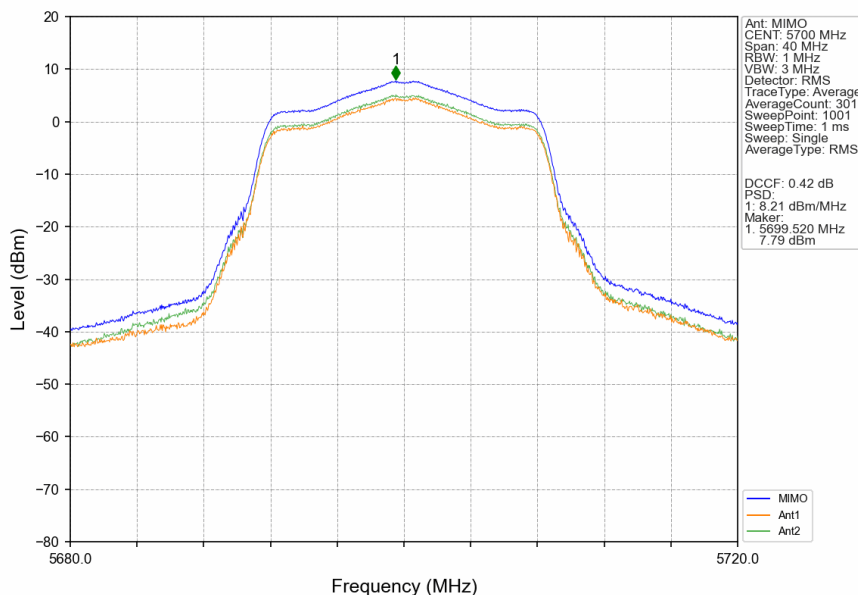
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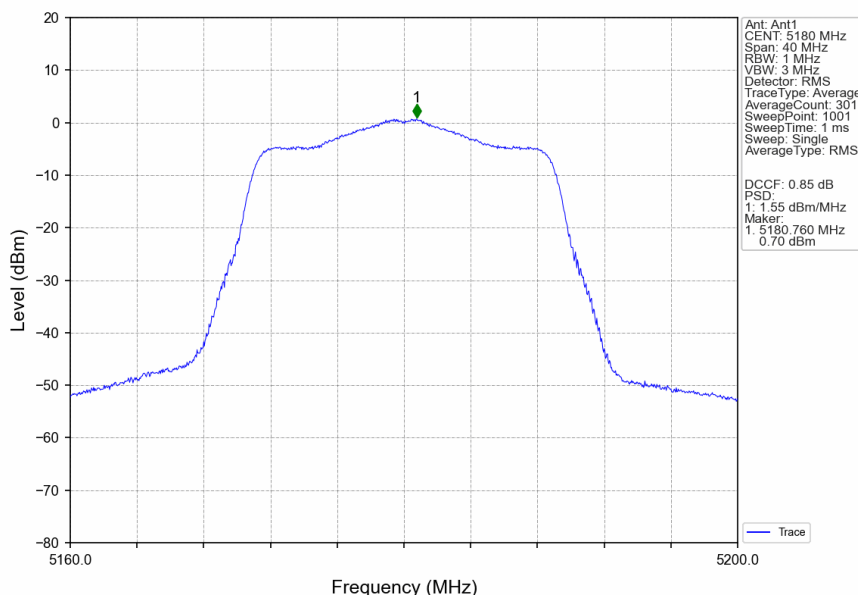
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802.11a_HCH_5700MHz_MIMO_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



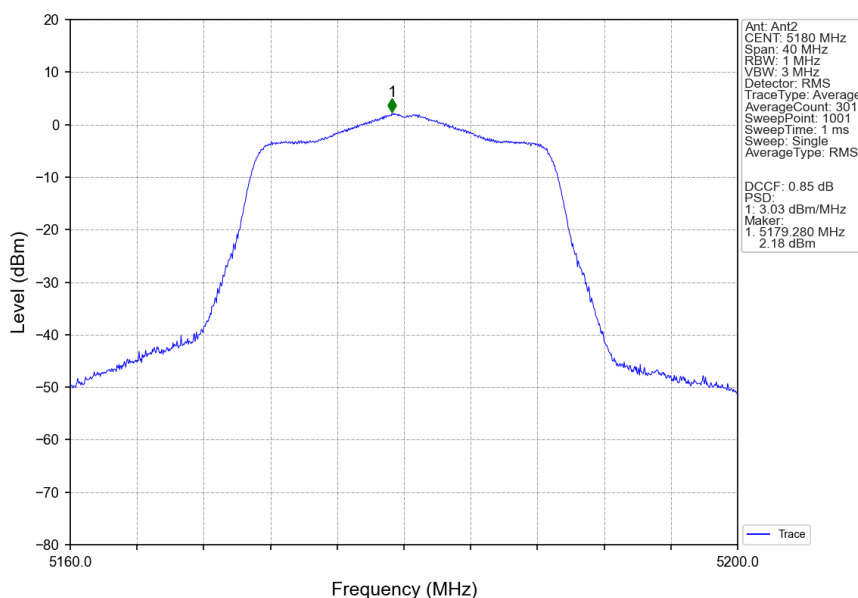
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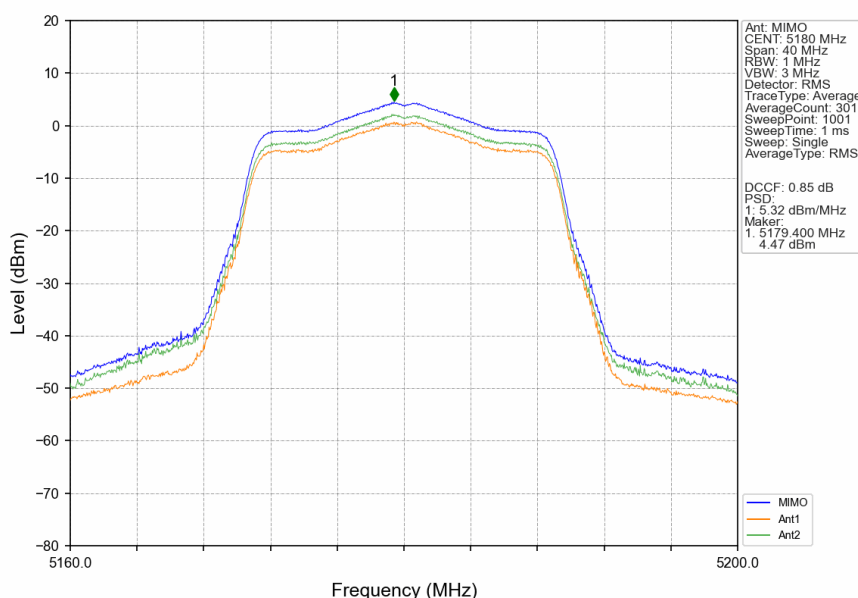
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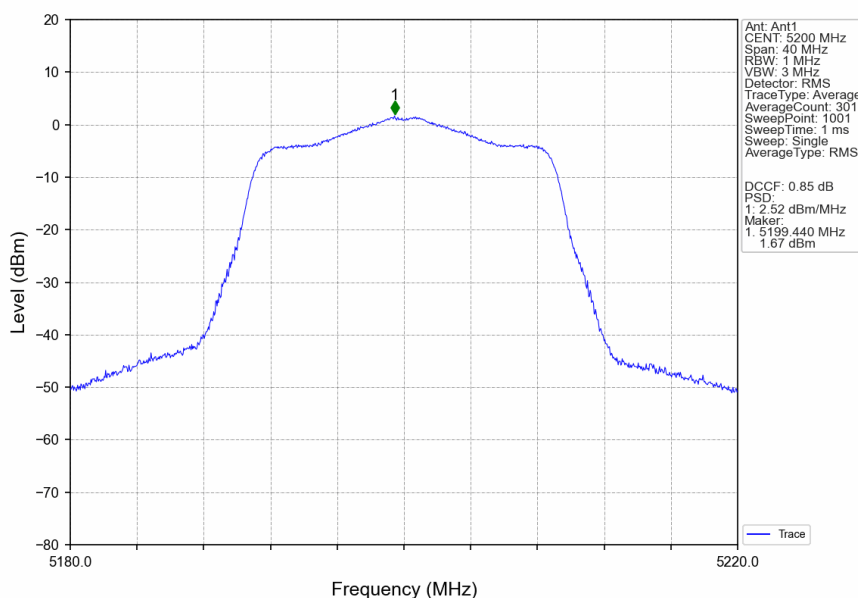
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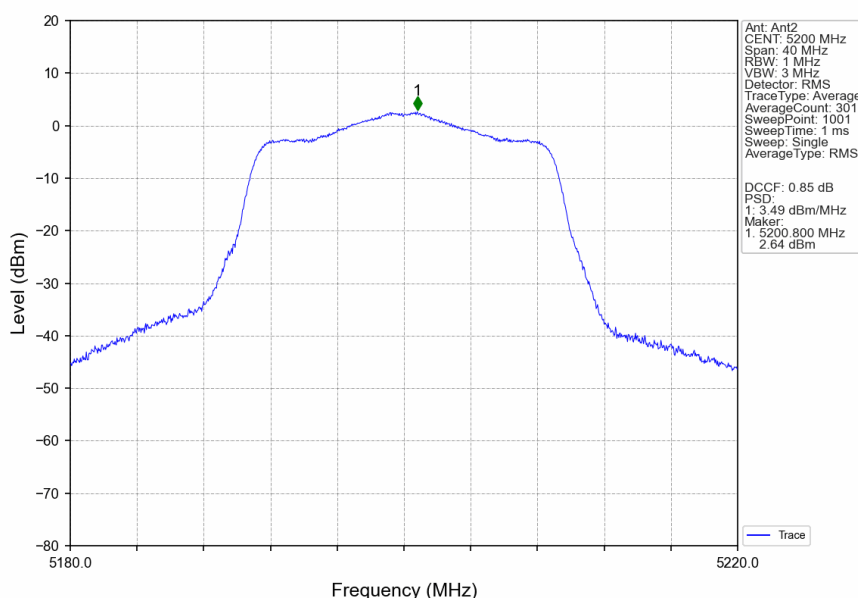
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



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