

# Appendix –

## Test Data and Result for report

### GZCR241000116302

### (Maximum Power Spectral Density)



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## 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	ANT3	ANT4	MIMO	Limit	
802.11a	SISO	5180	/	/	-0.18	-1.73	-0.68	-3.97	/	<=17	Pass
		5200	/	/	-0.70	-2.31	-1.19	-4.25	/	<=17	Pass
		5240	/	/	-0.70	-2.90	-1.11	-3.32	/	<=17	Pass
		5260	/	/	-0.80	-3.10	-0.68	-3.05	/	<=11	Pass
		5300	/	/	-0.68	-2.61	-1.70	-2.48	/	<=11	Pass
		5320	/	/	-0.62	-2.20	-2.08	-2.19	/	<=11	Pass
		5500	/	/	0.13	0.03	-1.58	-1.90	/	<=11	Pass
		5580	/	/	-0.59	3.41	-0.29	-1.74	/	<=11	Pass
		5700	/	/	-1.43	-0.31	-1.26	-1.73	/	<=11	Pass
802.11n (HT40)	MIMO	5190	/	/	-3.39	-2.57	-4.22	-7.19	1.88	<=13.25	Pass
		5230	/	/	-4.31	-2.78	-4.21	-6.01	1.67	<=13.25	Pass
		5270	/	/	-4.39	-2.36	-3.79	-5.78	1.94	<=7.25	Pass
		5310	/	/	-4.11	-2.94	-3.61	-5.04	1.96	<=7.25	Pass
		5510	/	/	-4.56	-2.46	-3.41	-5.70	1.96	<=7.25	Pass
		5550	/	/	-4.51	-2.35	-4.08	-6.01	1.77	<=7.25	Pass
		5670	/	/	-5.14	-2.36	-5.21	-5.43	1.51	<=7.25	Pass
802.11ac (VHT80)	MIMO	5210	/	/	-8.18	-6.33	-7.79	-10.06	-2.20	<=13.25	Pass
		5290	/	/	-7.91	-6.48	-7.06	-9.18	-1.67	<=7.25	Pass
		5530	/	/	-6.96	-5.11	-6.82	-8.37	-0.86	<=7.25	Pass
		5610	/	/	-7.53	-4.42	-7.34	-8.31	-0.81	<=7.25	Pass
802.11ac (VHT160)	MIMO	5570	/	/	-10.26	-7.55	-10.40	-11.14	-3.68	<=7.25	Pass
		5250	/	/	-7.88	-4.71	-3.86	-5.69	0.58	<=16.98	Pass
802.11ax (HEW20)	MIMO	5180	RU26	Left	-0.88	1.14	-1.37	-4.13	4.87	<=13.25	Pass
				Mid	-0.94	0.96	-1.34	-4.34	4.91	<=13.25	Pass
				Right	-0.95	1.09	-1.52	-4.14	4.87	<=13.25	Pass
		5200	RU242	Left	-0.86	1.07	-1.76	-4.01	4.87	<=13.25	Pass
				Left	-4.34	-2.18	-4.21	-6.90	1.60	<=13.25	Pass
				Mid	-4.30	-2.25	-4.18	-7.13	1.65	<=13.25	Pass
				Right	-4.21	-2.07	-4.19	-7.15	1.65	<=13.25	Pass
			RU242	Left	-4.21	-2.40	-4.23	-6.99	1.53	<=13.25	Pass
				Left	-1.19	0.29	-1.40	-3.02	4.69	<=13.25	Pass
				Mid	-1.23	0.42	-1.31	-2.80	4.70	<=13.25	Pass

802.11ax (HEW40)	MIMO		RU242	Right	-0.88	0.55	-1.19	-2.89	4.81	<=13.25	Pass
				Left	-1.33	0.42	-1.44	-2.77	4.74	<=13.25	Pass
		5260	RU26	Left	0.33	1.39	-0.59	-2.45	5.74	<=7.25	Pass
				Mid	0.16	1.43	-0.68	-2.32	5.76	<=7.25	Pass
				Right	0.17	1.20	-0.86	-2.31	5.70	<=7.25	Pass
				Left	0.30	1.43	-0.78	-2.09	5.67	<=7.25	Pass
		5300	RU26	Left	0.86	0.39	-0.36	-1.66	5.72	<=7.25	Pass
				Mid	-0.34	0.59	-0.36	-1.68	5.52	<=7.25	Pass
				Right	-0.19	0.54	-0.49	-1.86	5.42	<=7.25	Pass
				Left	0.79	0.63	-0.32	-1.78	5.73	<=7.25	Pass
		5320	RU26	Left	-0.29	1.08	-0.63	-1.51	5.57	<=7.25	Pass
				Mid	-0.43	1.04	-0.76	-1.39	5.61	<=7.25	Pass
				Right	-0.28	1.07	-0.72	-1.31	5.59	<=7.25	Pass
				Left	-0.30	0.91	-0.69	-1.57	5.52	<=7.25	Pass
		5500	RU26	Left	-1.46	-0.11	-1.68	-3.01	4.41	<=7.25	Pass
				Mid	-1.47	-0.34	-1.32	-3.01	4.48	<=7.25	Pass
				Right	-1.61	-0.36	-1.62	-3.04	4.32	<=7.25	Pass
				Left	-1.26	-0.21	-1.44	-2.94	4.40	<=7.25	Pass
		5580	RU26	Left	-2.21	-0.34	-3.23	-3.34	3.83	<=7.25	Pass
				Mid	-2.20	-0.31	-3.05	-3.31	3.93	<=7.25	Pass
				Right	-2.20	-0.24	-2.94	-3.27	3.84	<=7.25	Pass
				Left	-2.26	-0.30	-2.97	-3.31	3.86	<=7.25	Pass
		5700	RU26	Left	-2.72	-0.85	-3.18	-2.22	3.61	<=7.25	Pass
				Mid	-2.55	-0.87	-3.04	-2.27	3.71	<=7.25	Pass
				Right	-2.52	-0.92	-3.04	-2.35	3.64	<=7.25	Pass
				Left	-2.68	-0.93	-3.07	-2.10	3.71	<=7.25	Pass
		5190	RU26	Left	-3.13	-2.51	-4.24	-7.15	1.78	<=13.25	Pass
				Mid	-3.35	-2.45	-4.35	-6.99	1.81	<=13.25	Pass
				Right	-3.45	-2.50	-4.19	-7.13	1.80	<=13.25	Pass
				Left	-3.44	-2.40	-4.12	-7.10	1.79	<=13.25	Pass
		5230	RU26	Left	-3.40	-2.72	-4.01	-5.57	1.91	<=13.25	Pass
				Mid	-3.43	-2.57	-4.15	-5.78	1.92	<=13.25	Pass
				Right	-3.37	-2.71	-4.09	-5.72	1.95	<=13.25	Pass
				Left	-3.49	-2.88	-3.70	-5.50	1.88	<=13.25	Pass
		5270	RU26	Left	-4.30	-2.50	-3.75	-5.92	1.87	<=7.25	Pass
				Mid	-4.17	-2.23	-3.53	-5.91	2.06	<=7.25	Pass
				Right	-4.24	-2.34	-3.63	-5.69	1.99	<=7.25	Pass
				Left	-4.17	-2.48	-3.48	-5.73	1.88	<=7.25	Pass
		5310	RU26	Left	-3.79	-3.01	-3.39	-5.11	2.06	<=7.25	Pass
				Mid	-3.82	-2.96	-3.41	-4.99	2.02	<=7.25	Pass
				Right	-3.92	-3.03	-3.34	-5.11	2.07	<=7.25	Pass
				Left	-3.76	-2.88	-3.45	-5.05	2.09	<=7.25	Pass



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		5510	RU26	Left	-4.64	-3.35	-3.56	-5.61	1.61	<=7.25	Pass
				Mid	-4.50	-3.12	-3.56	-5.58	1.63	<=7.25	Pass
				Right	-4.91	-3.38	-3.65	-5.57	1.53	<=7.25	Pass
		5550	RU26	Left	-4.74	-3.37	-3.51	-5.58	1.56	<=7.25	Pass
				Mid	-4.88	-3.29	-4.53	-6.00	1.23	<=7.25	Pass
				Right	-5.13	-3.23	-4.32	-5.94	1.24	<=7.25	Pass
		5670	RU26	Left	-5.00	-3.26	-4.37	-6.05	1.24	<=7.25	Pass
				Mid	-4.85	-3.30	-4.29	-6.09	1.29	<=7.25	Pass
				Right	-4.74	-4.73	-6.56	-6.17	-0.23	<=7.25	Pass
		5530	RU26	Left	-6.60	-4.68	-6.68	-6.35	-0.25	<=7.25	Pass
				Mid	-6.59	-4.77	-6.65	-6.35	-0.24	<=7.25	Pass
				Right	-6.67	-4.83	-6.39	-6.28	-0.17	<=7.25	Pass
802.11ax (HEW80)	MIMO	5210	RU26	Left	-6.67	-4.83	-6.39	-6.28	-0.17	<=7.25	Pass
				Mid	-6.46	-5.75	-7.59	-9.81	-1.45	<=13.25	Pass
				Right	-6.72	-5.62	-7.39	-9.78	-1.44	<=13.25	Pass
		5290	RU26	Left	-6.58	-5.77	-7.57	-9.62	-1.39	<=13.25	Pass
				Mid	-6.62	-5.70	-7.41	-9.76	-1.40	<=13.25	Pass
				Right	-7.52	-6.29	-7.15	-9.15	-1.59	<=7.25	Pass
		5530	RU26	Left	-7.45	-6.33	-7.14	-9.17	-1.60	<=7.25	Pass
				Mid	-7.47	-6.35	-7.04	-9.25	-1.58	<=7.25	Pass
				Right	-7.56	-6.47	-7.29	-9.04	-1.65	<=7.25	Pass
		5610	RU26	Left	-7.12	-4.94	-6.17	-8.20	-0.65	<=7.25	Pass
				Mid	-7.14	-5.00	-6.29	-8.23	-0.66	<=7.25	Pass
				Right	-5.84	-4.97	-6.33	-8.12	-0.44	<=7.25	Pass
802.11ax (HEW160)	MIMO	5570	RU26	Left	-6.99	-4.99	-6.20	-8.21	-0.67	<=7.25	Pass
				Mid	-6.87	-4.58	-6.81	-8.19	-0.60	<=7.25	Pass
				Right	-6.83	-4.73	-6.92	-8.06	-0.75	<=7.25	Pass
		5250	RU26	Left	-6.94	-4.67	-7.01	-8.31	-0.74	<=7.25	Pass
				Mid	-10.06	-8.53	-10.61	-11.52	-4.23	<=7.25	Pass
				Right	-10.22	-8.55	-10.54	-11.58	-4.30	<=7.25	Pass
		5570	RU26	Left	-10.00	-8.37	-10.60	-11.55	-4.23	<=7.25	Pass
				Mid	-10.15	-8.60	-10.69	-11.71	-4.28	<=7.25	Pass
				Right	-7.16	-10.13	-5.77	-7.69	-1.50	<=16.98	Pass
		5250	RU26	Left	-7.19	-10.25	-5.76	-7.65	-1.53	<=16.98	Pass
				Mid	-7.14	-10.21	-5.82	-7.64	-1.55	<=16.98	Pass
				Right	-7.19	-10.20	-5.83	-7.58	-1.58	<=16.98	Pass

Note1: Antenna Gain: Ant1: 3.73dBi; Ant2: 3.73dBi; Ant3: 3.73dBi; Ant4: 3.73dBi;

Note2: Directional Gain: Band1: 9.75dBi, Band2A: 9.75dBi, Band2C: 9.75dBi, Band3: 9.75dBi



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### 4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)						Verdict
					ANT1	ANT2	ANT3	ANT4	MIMO	Limit	
802.11a	SISO	5745	/	/	-4.14	-4.62	-4.54	-3.78	/	<=30	Pass
		5785	/	/	-4.52	-5.48	-5.27	-3.84	/	<=30	Pass
		5825	/	/	-4.51	-5.75	-5.91	-3.71	/	<=30	Pass
802.11n (HT40)	MIMO	5755	/	/	-8.36	-6.34	-8.73	-6.83	-1.68	<=26.25	Pass
		5795	/	/	-8.31	-6.86	-9.38	-6.69	-1.90	<=26.25	Pass
802.11ac (VHT80)	MIMO	5775	/	/	-11.84	-10.27	-12.48	-10.34	-5.41	<=26.25	Pass
802.11ax (HEW20)	MIMO	5745	RU26	Left	-3.65	-3.25	-5.89	-3.86	1.70	<=26.25	Pass
				Mid	-3.74	-3.32	-6.13	-3.87	1.68	<=26.25	Pass
				Right	-3.73	-3.42	-5.95	-3.80	1.71	<=26.25	Pass
		5785	RU242	Left	-3.90	-3.52	-6.19	-3.76	1.62	<=26.25	Pass
				Left	-4.29	-3.56	-6.61	-3.75	1.36	<=26.25	Pass
				Mid	-4.35	-3.45	-6.72	-3.66	1.41	<=26.25	Pass
			RU26	Right	-4.42	-3.43	-6.68	-3.68	1.39	<=26.25	Pass
				Left	-4.33	-3.54	-6.53	-3.77	1.53	<=26.25	Pass
				Left	-4.37	-3.54	-7.16	-3.42	1.47	<=26.25	Pass
		5825	RU26	Mid	-4.21	-3.70	-6.94	-3.72	1.31	<=26.25	Pass
				Right	-4.21	-3.69	-7.00	-3.70	1.37	<=26.25	Pass
			RU242	Left	-4.45	-3.36	-7.27	-3.77	1.24	<=26.25	Pass
				Left	-7.12	-6.16	-9.05	-6.64	-1.44	<=26.25	Pass
802.11ax (HEW40)	MIMO	5755	RU26	Mid	-7.22	-6.32	-8.90	-6.64	-1.47	<=26.25	Pass
				Right	-7.31	-6.38	-8.95	-6.68	-1.43	<=26.25	Pass
			RU484	Left	-7.24	-6.27	-9.06	-6.72	-1.46	<=26.25	Pass
		5795	RU26	Left	-8.16	-6.97	-9.71	-7.14	-1.94	<=26.25	Pass
				Mid	-8.13	-6.93	-9.81	-7.18	-1.95	<=26.25	Pass
				Right	-8.11	-6.91	-9.98	-7.14	-1.98	<=26.25	Pass
			RU484	Left	-8.14	-6.88	-9.86	-7.12	-2.01	<=26.25	Pass
				Left	-10.83	-9.69	-12.67	-10.05	-4.89	<=26.25	Pass
802.11ax (HEW80)	MIMO	5775	RU26	Mid	-10.98	-9.63	-12.65	-10.09	-4.93	<=26.25	Pass
				Right	-10.97	-9.61	-12.55	-9.96	-4.82	<=26.25	Pass
			RU996	Left	-11.05	-9.61	-12.73	-10.04	-4.91	<=26.25	Pass
				Left	-11.05	-9.61	-12.73	-10.04	-4.91	<=26.25	Pass

Note1: Antenna Gain: Ant1: 3.73dBi; Ant2: 3.73dBi; Ant3: 3.73dBi; Ant4: 3.73dBi;

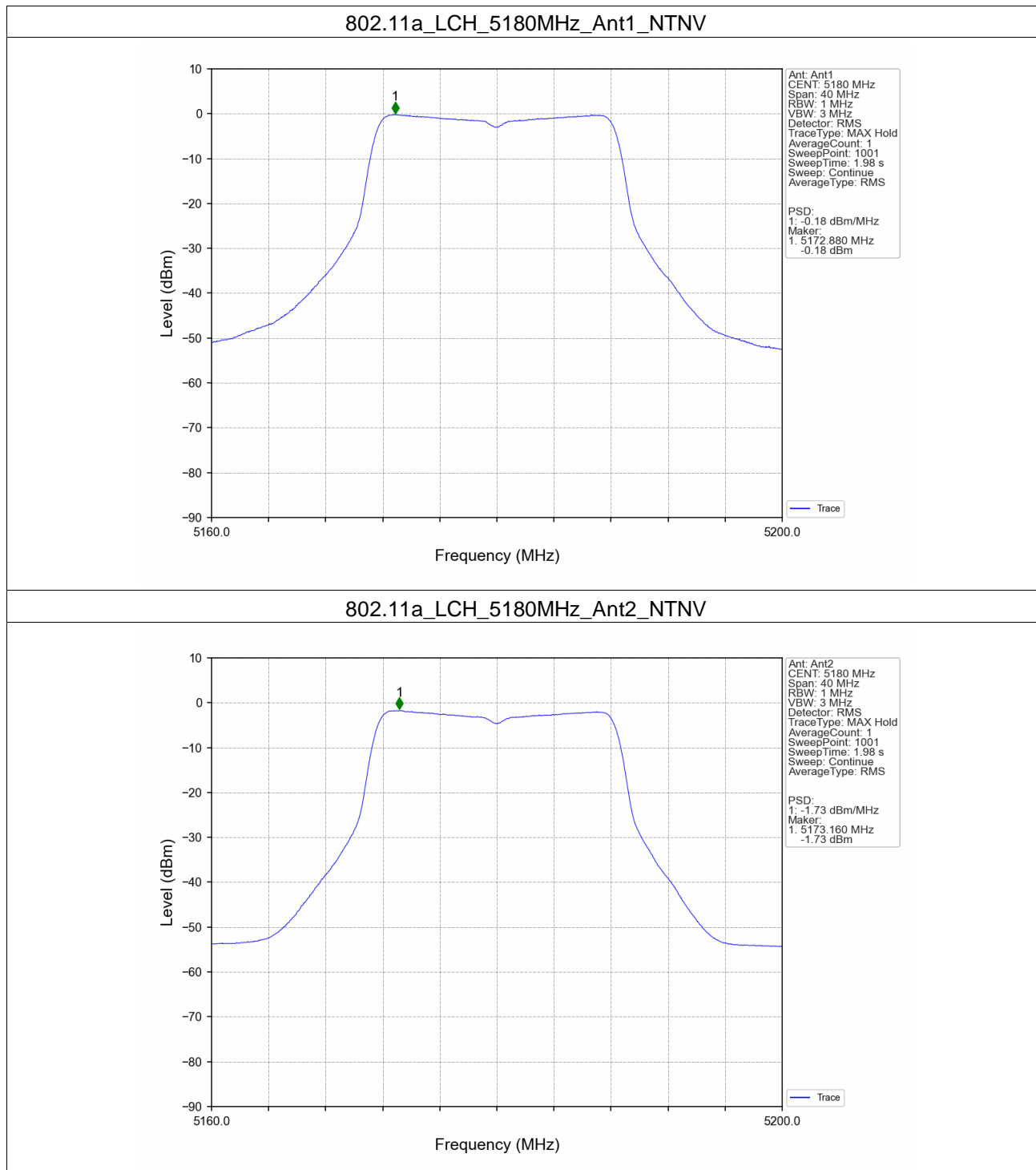


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### 4.2 Test Graph

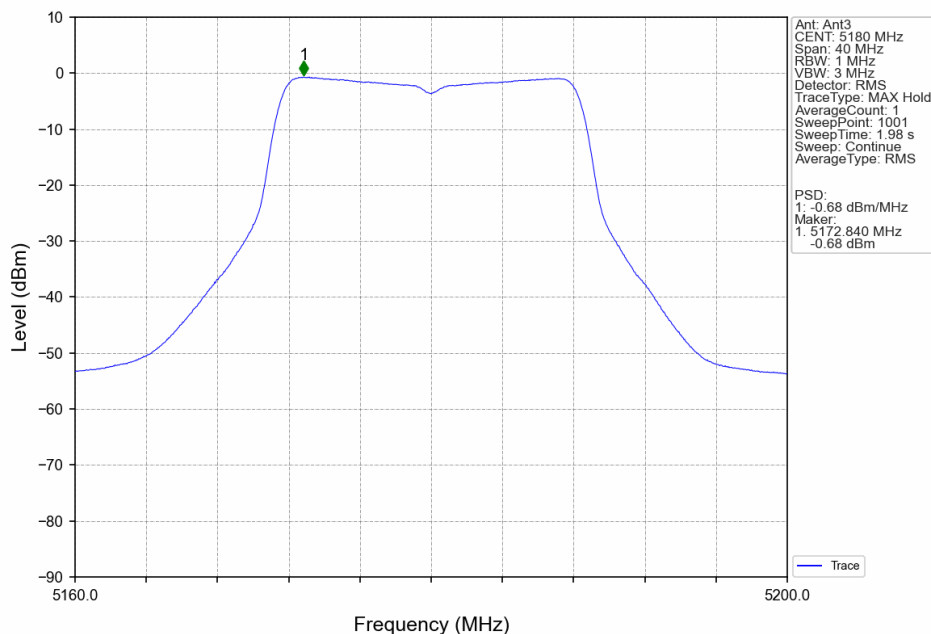
#### 4.2.1 PSD



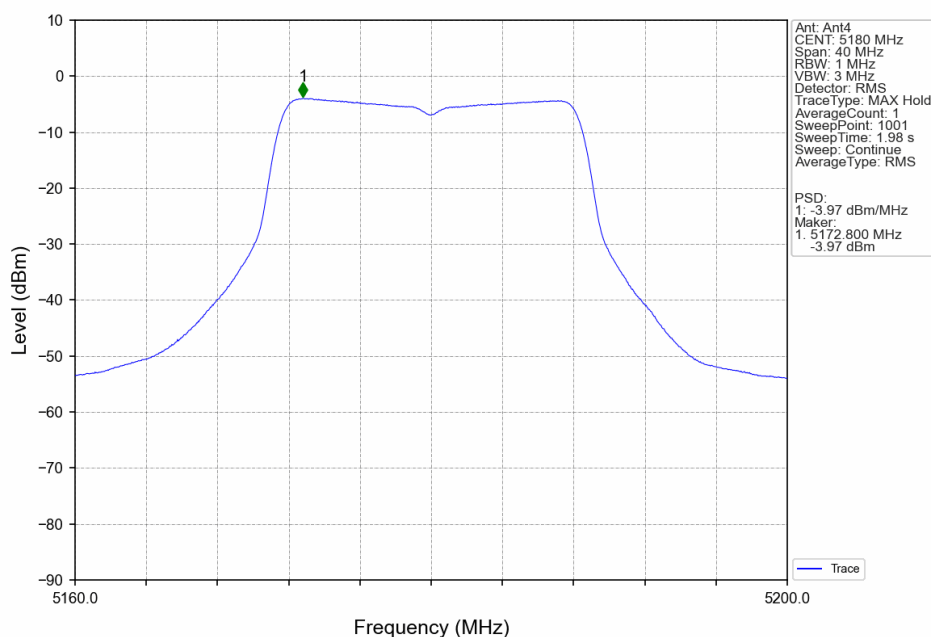
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802.11a\_LCH\_5180MHz\_Ant3\_NTNV



802.11a\_LCH\_5180MHz\_Ant4\_NTNV



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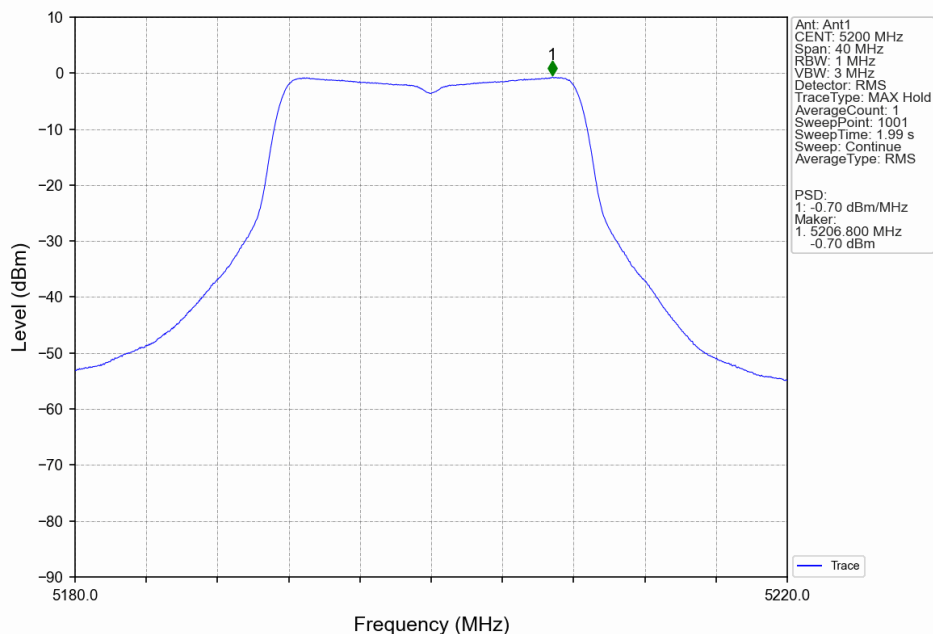
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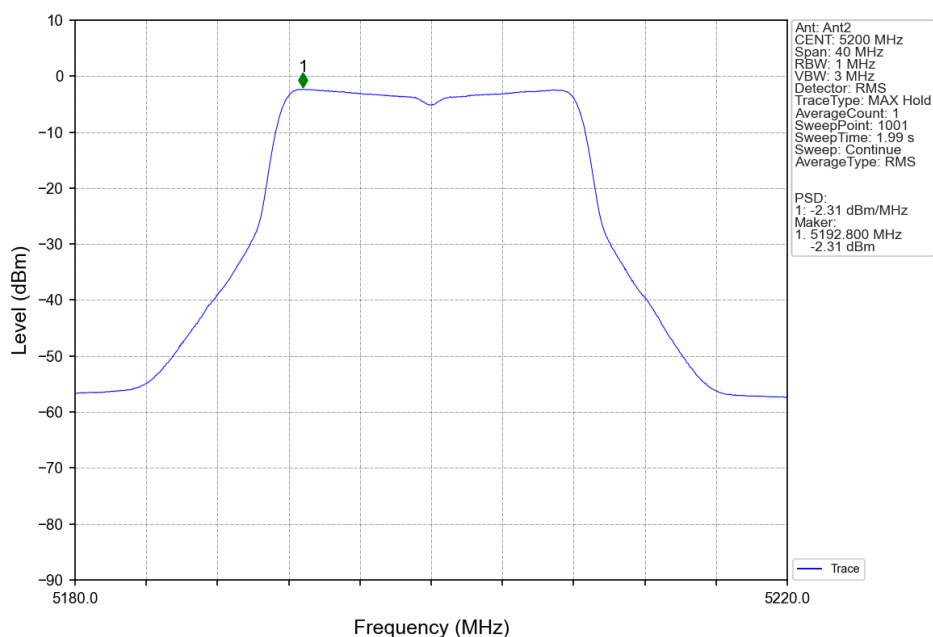
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802.11a\_MCH\_5200MHz\_Ant1\_NTNV



802.11a\_MCH\_5200MHz\_Ant2\_NTNV



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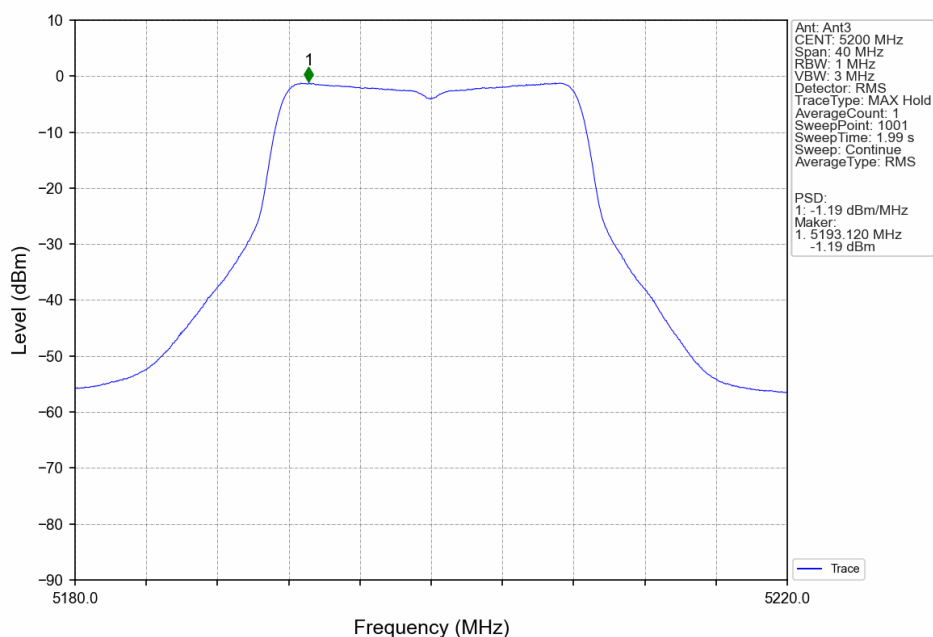
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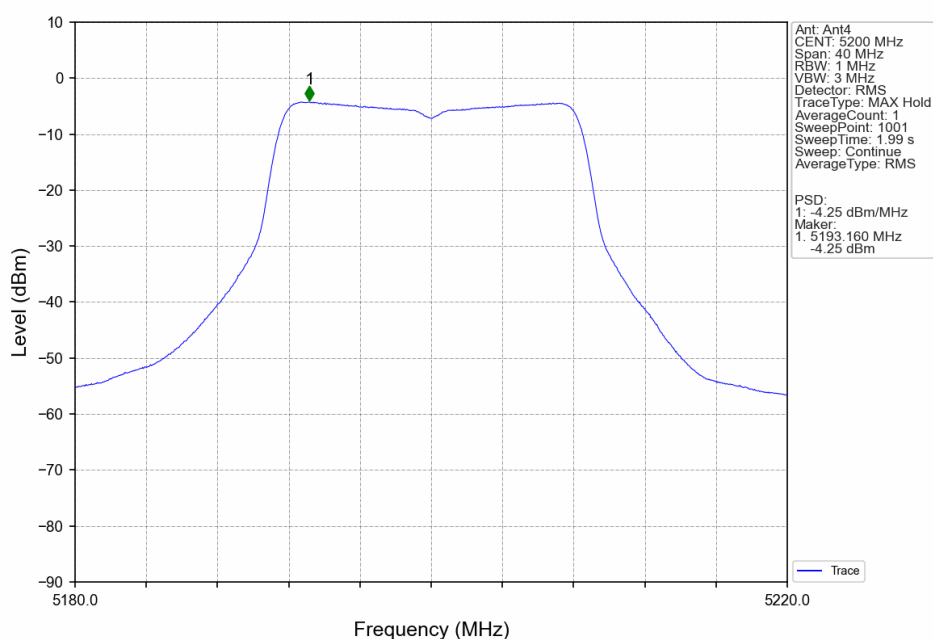
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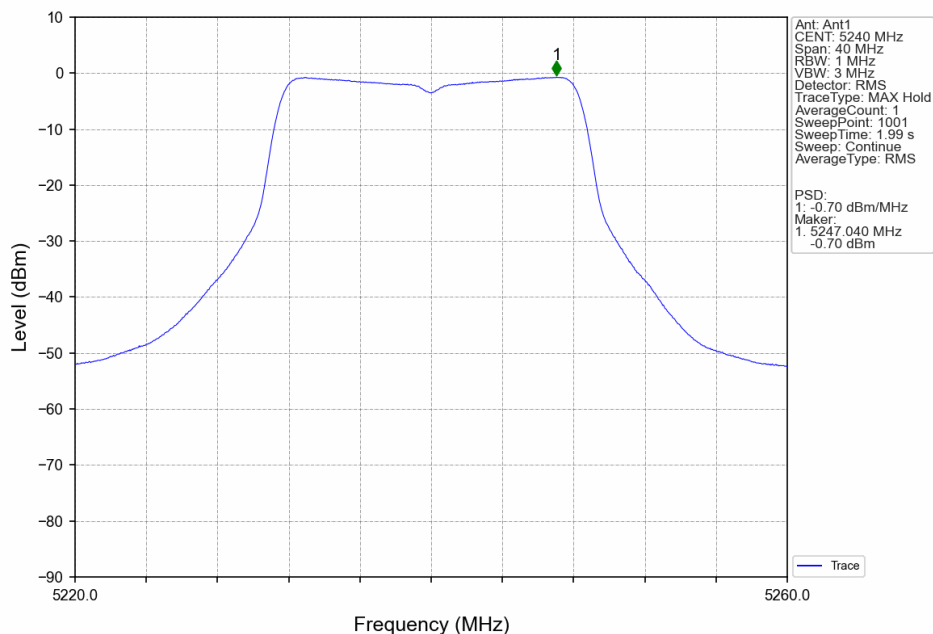
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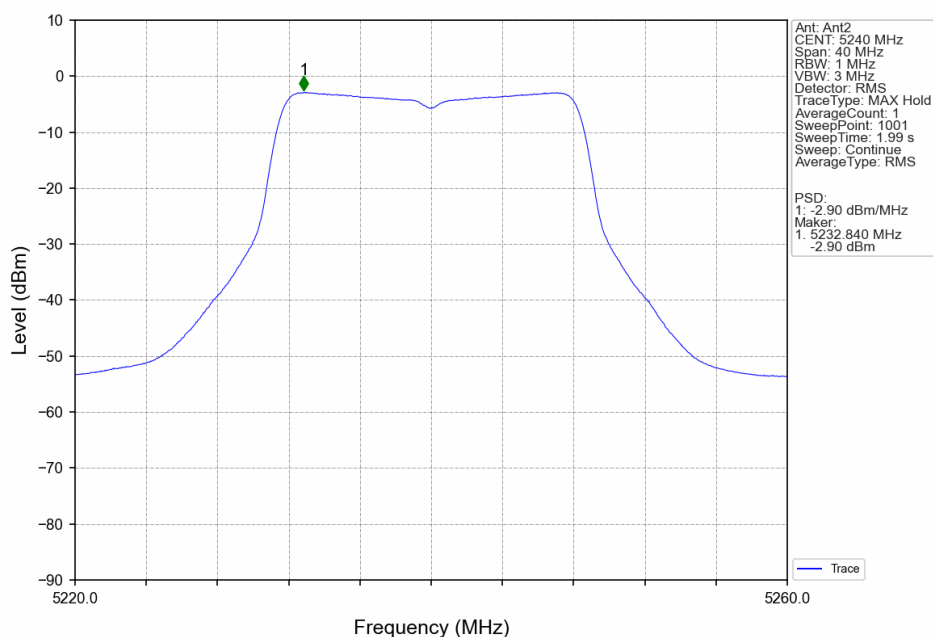
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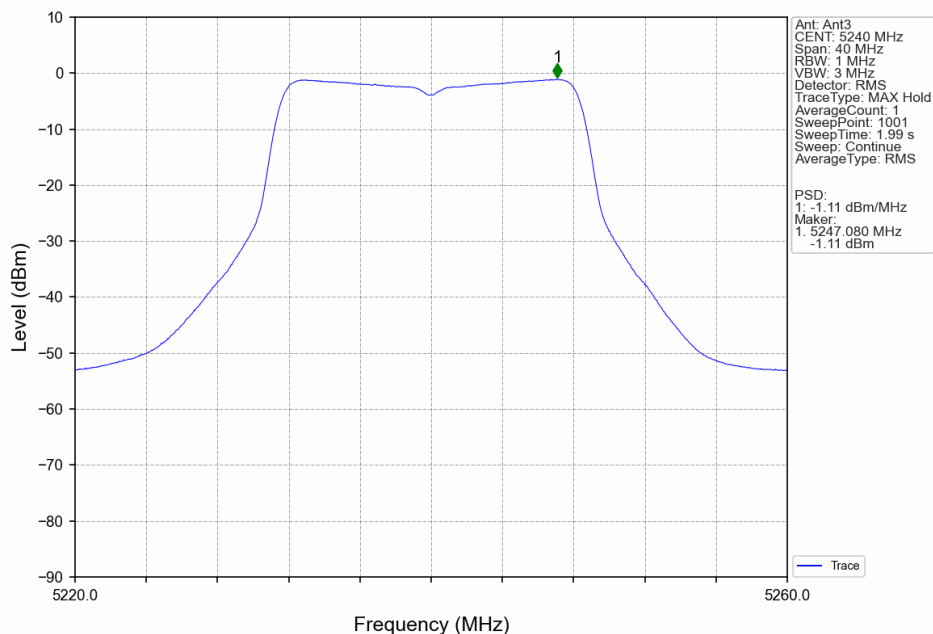
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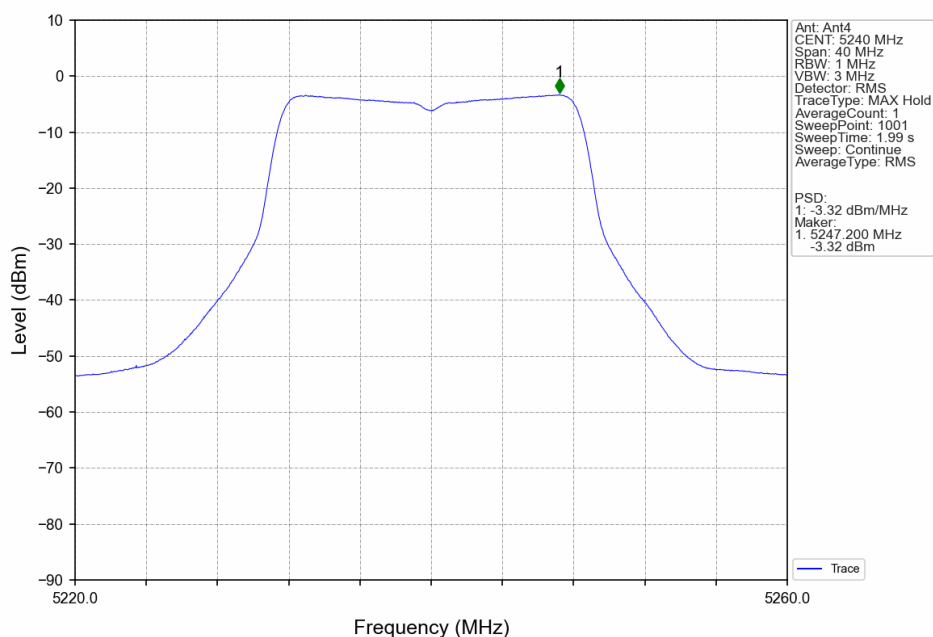
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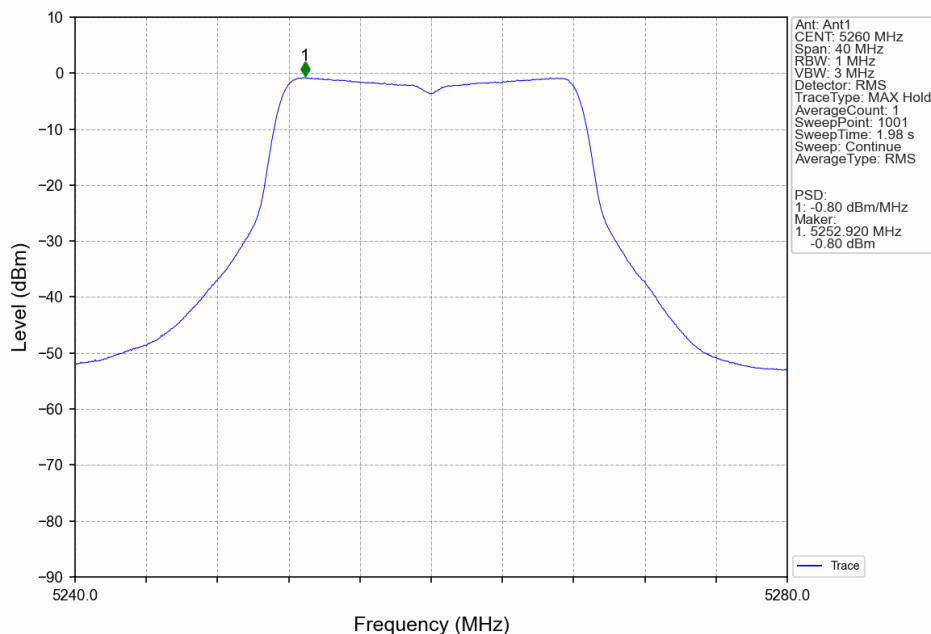
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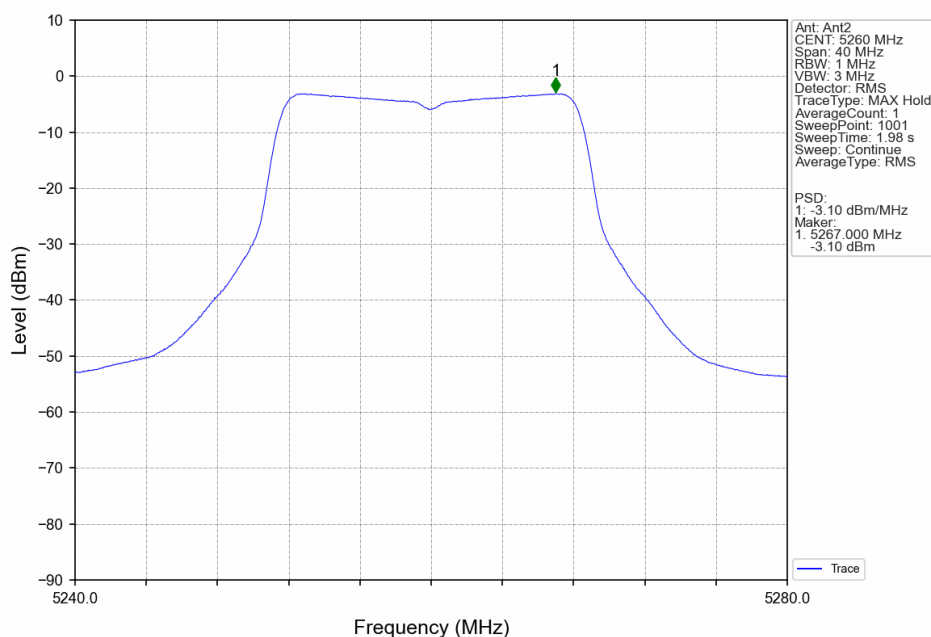
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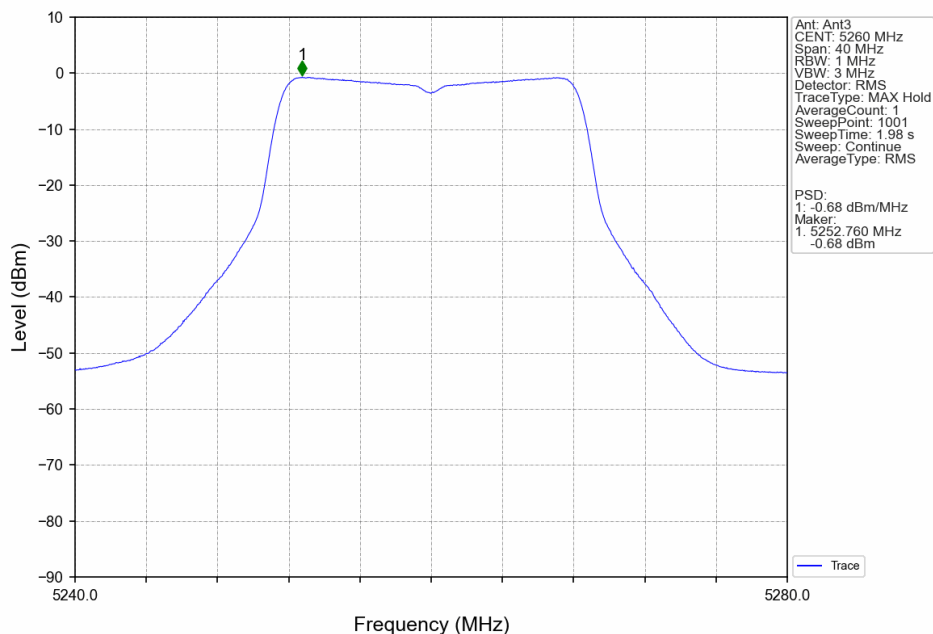
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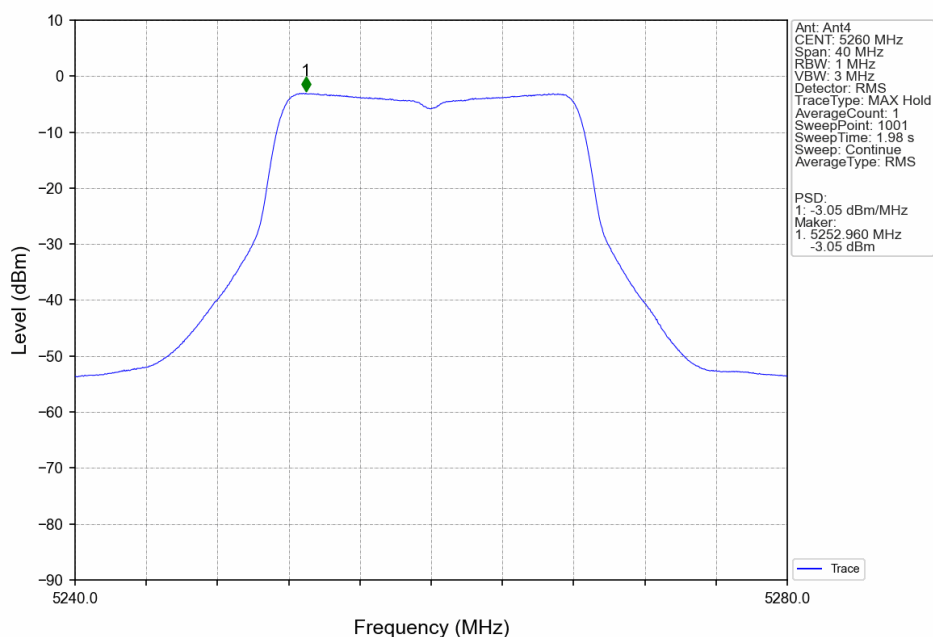
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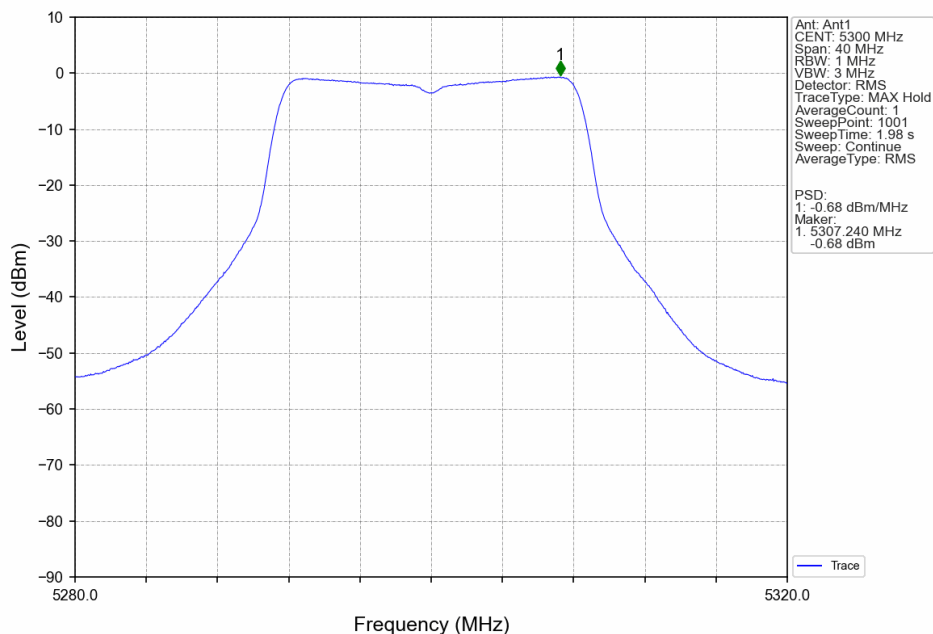
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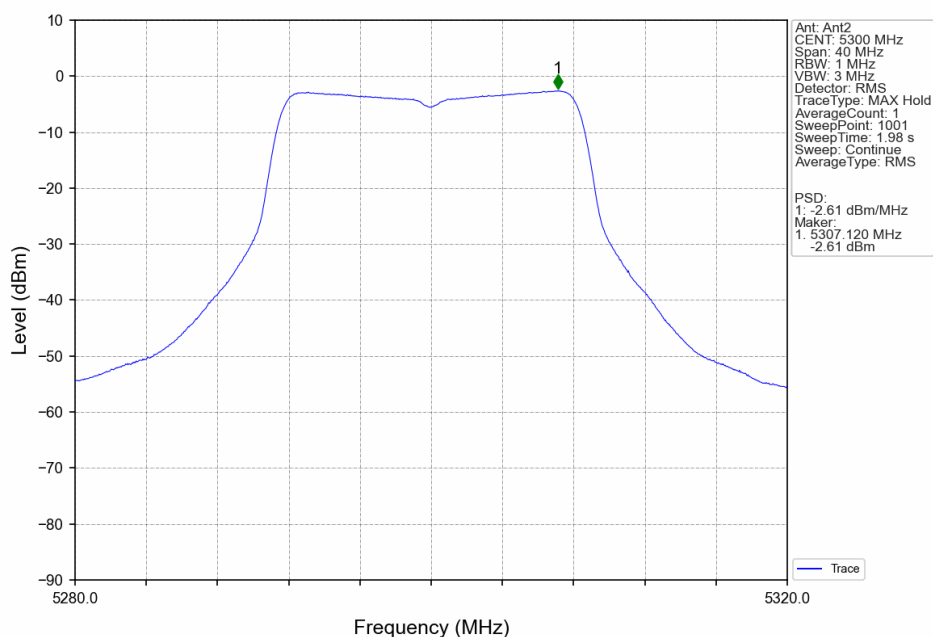
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802.11a\_MCH\_5300MHz\_Ant1\_NTNV



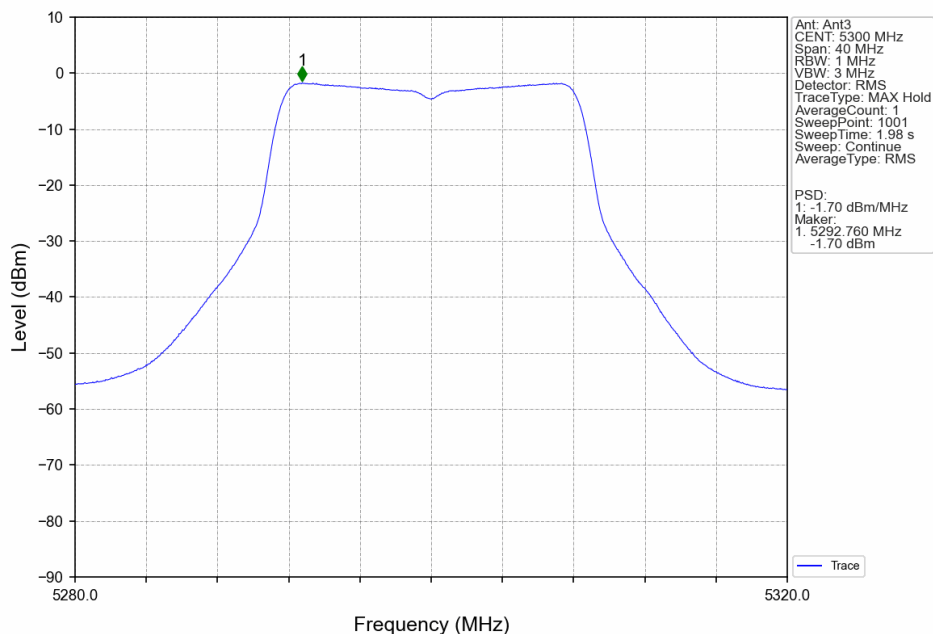
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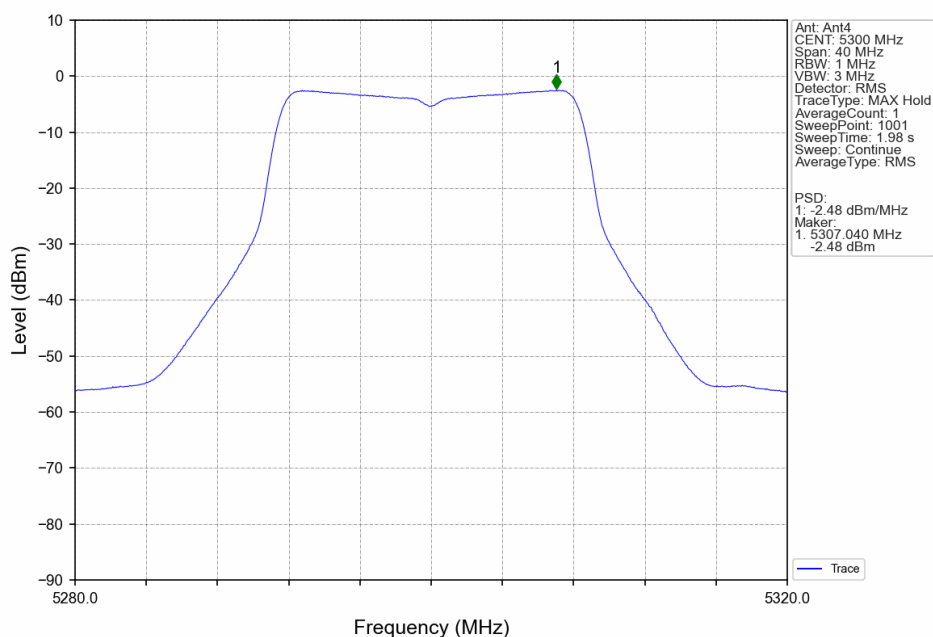
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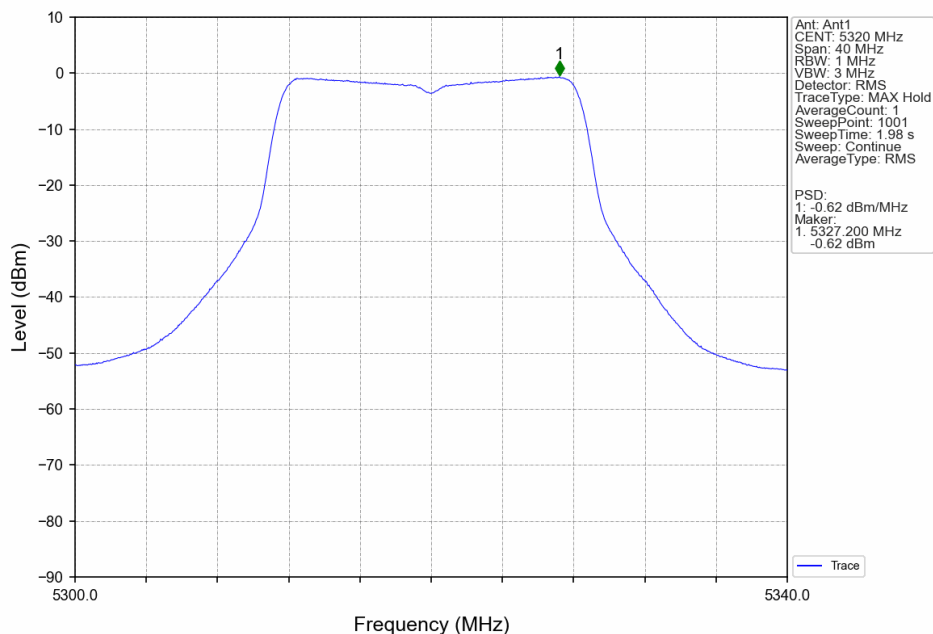
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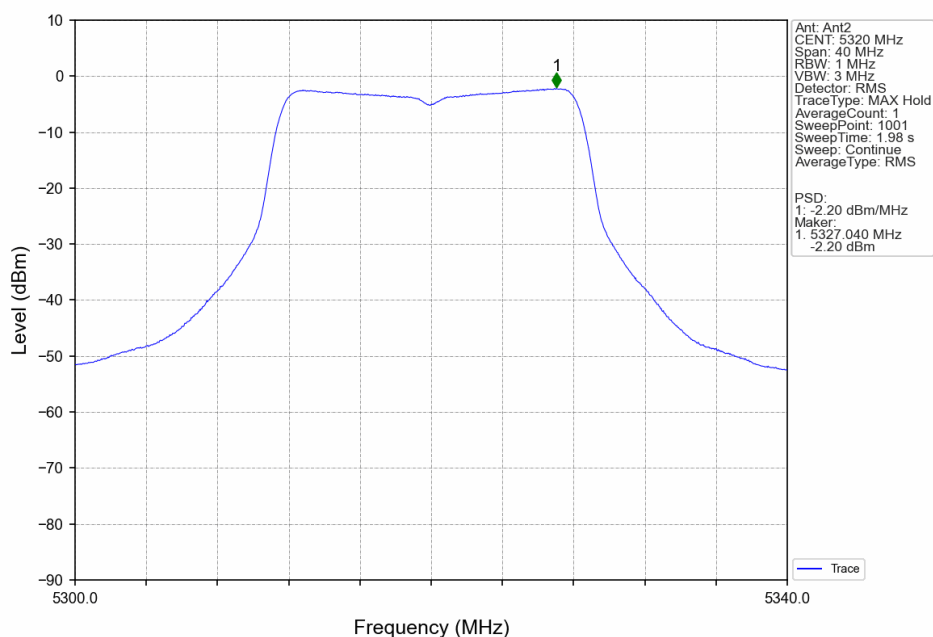
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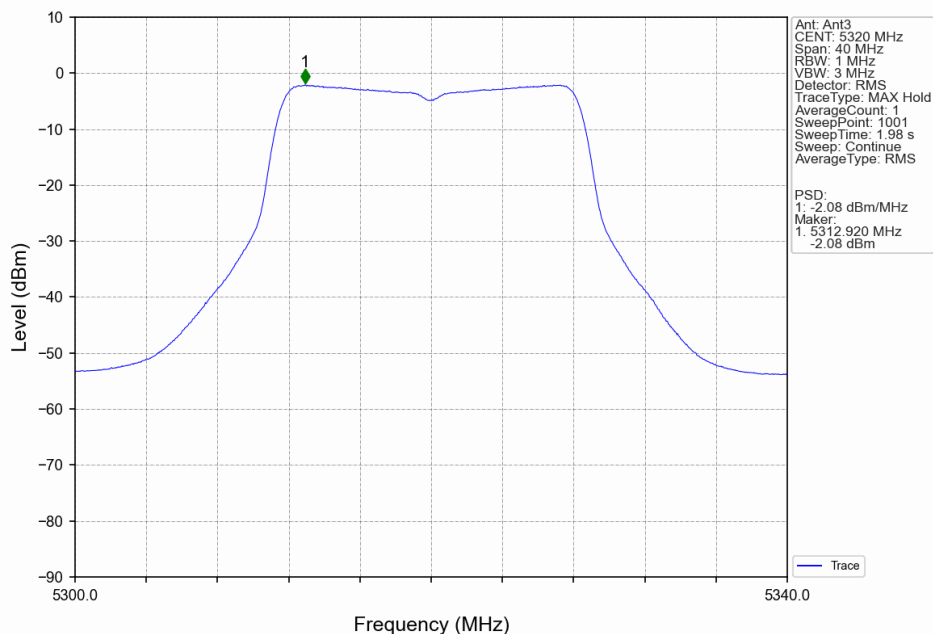


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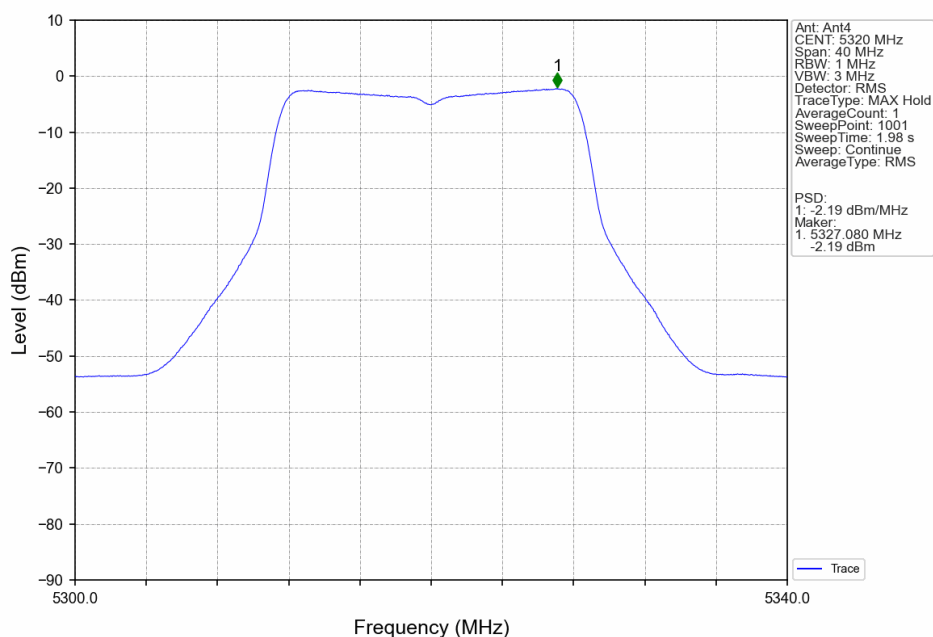




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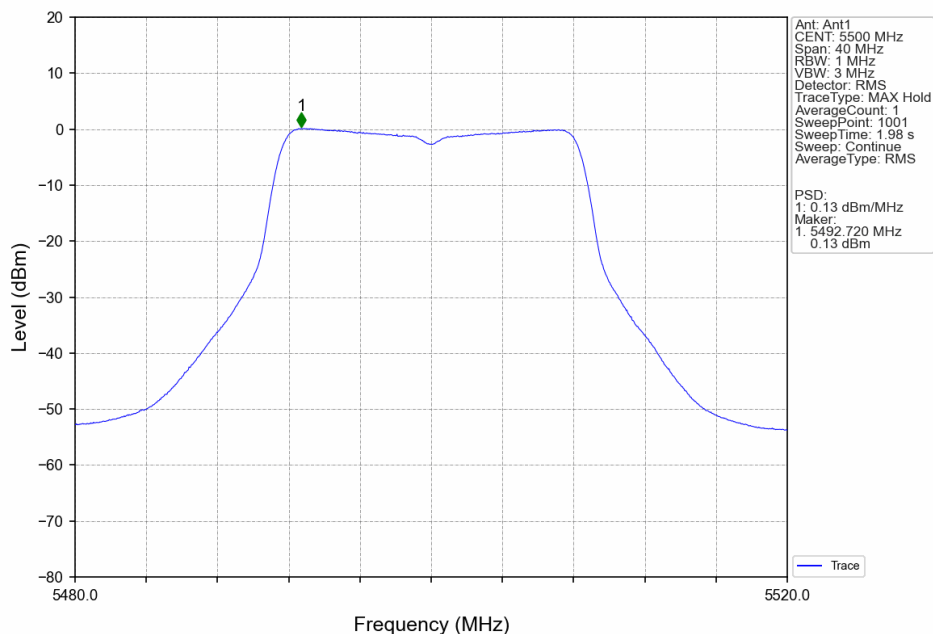
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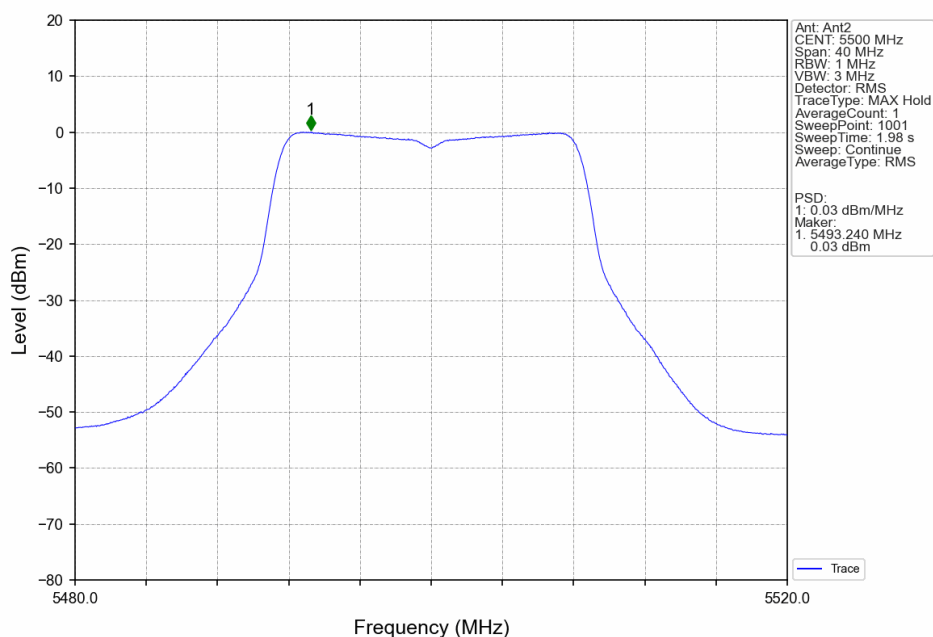
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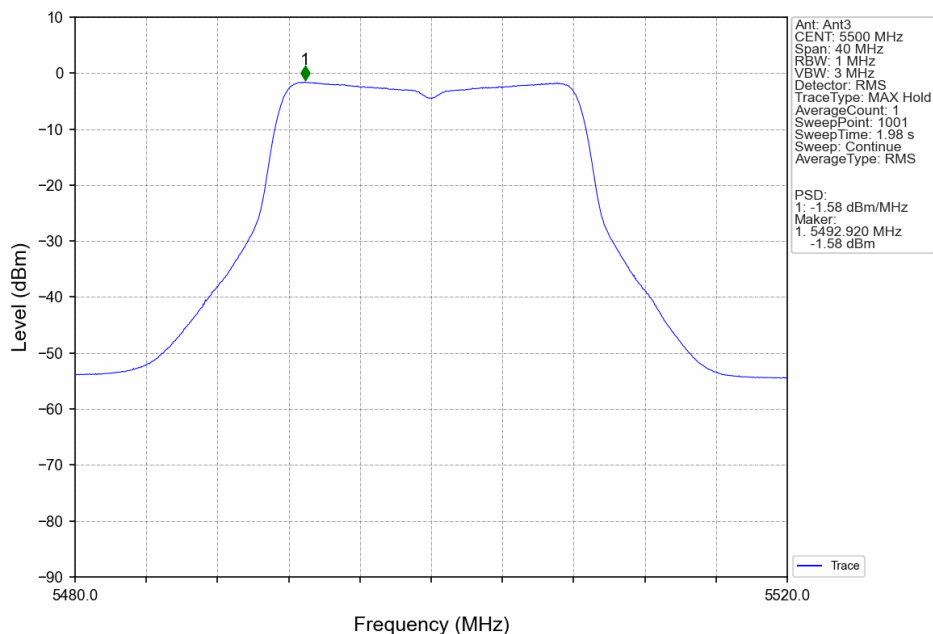
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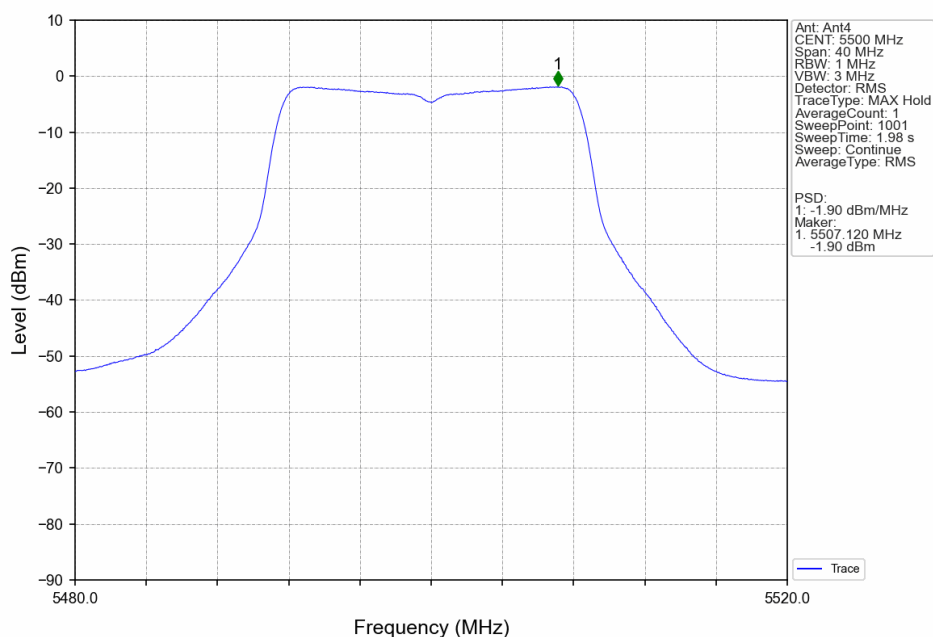
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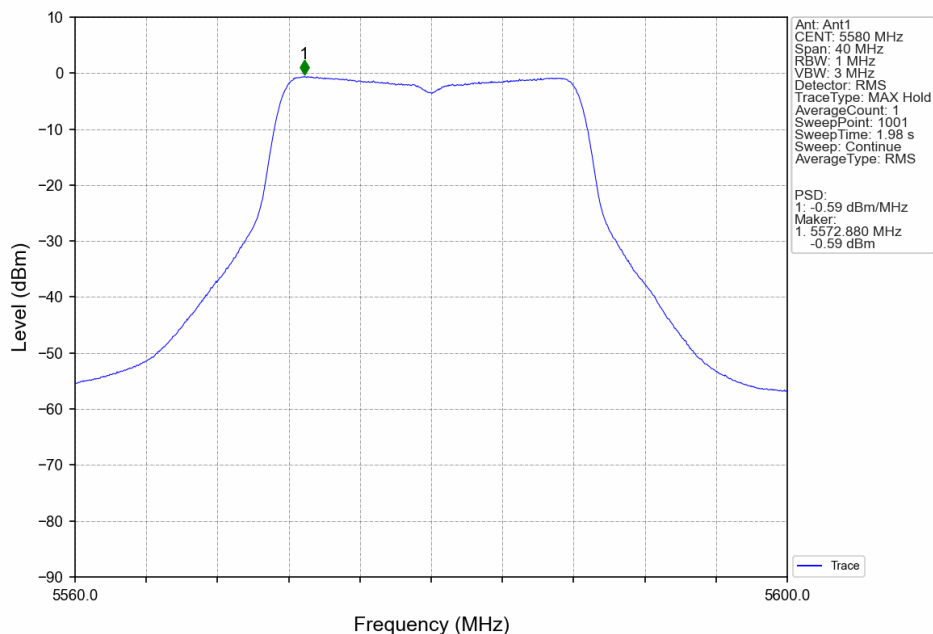
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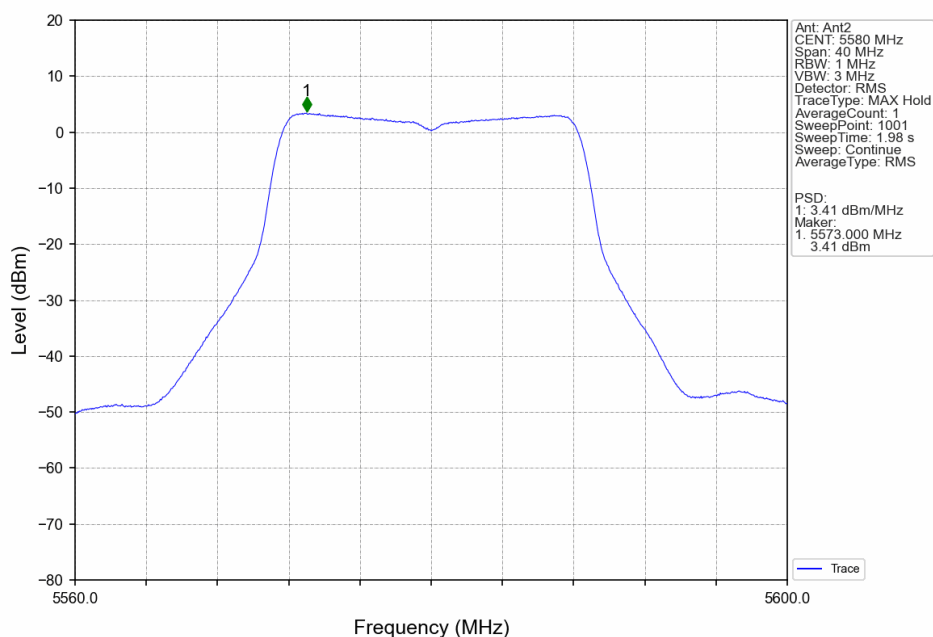
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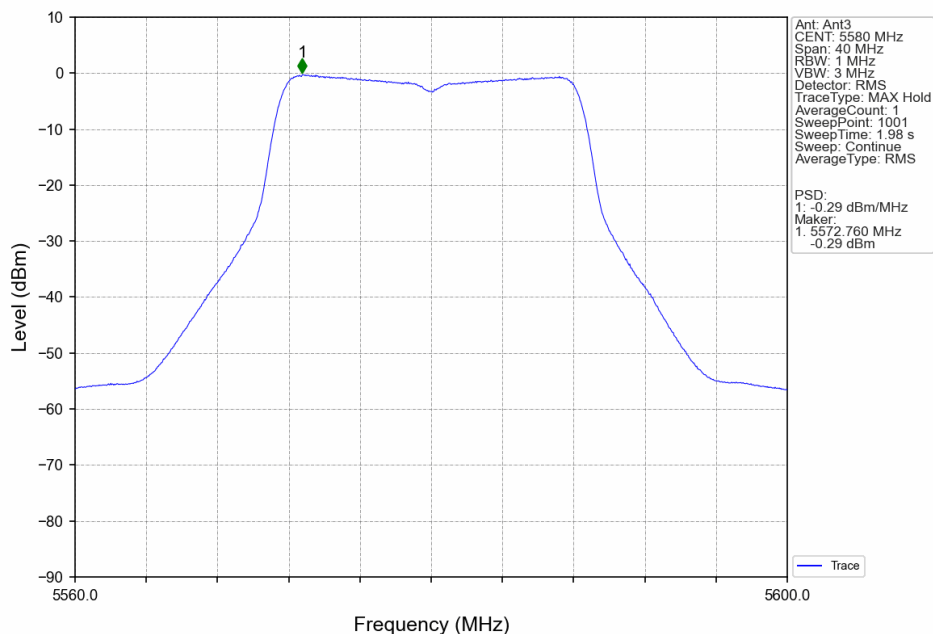


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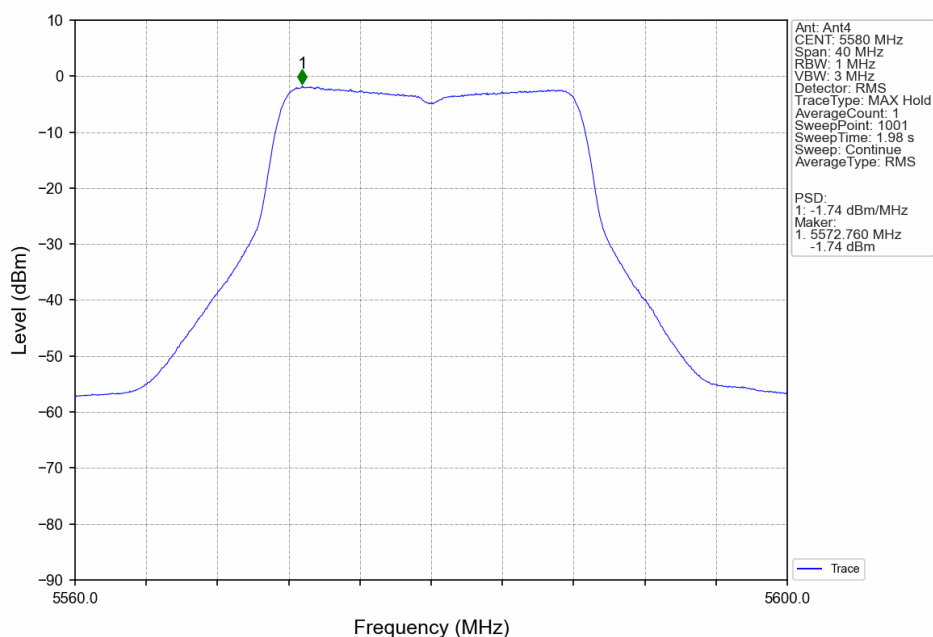




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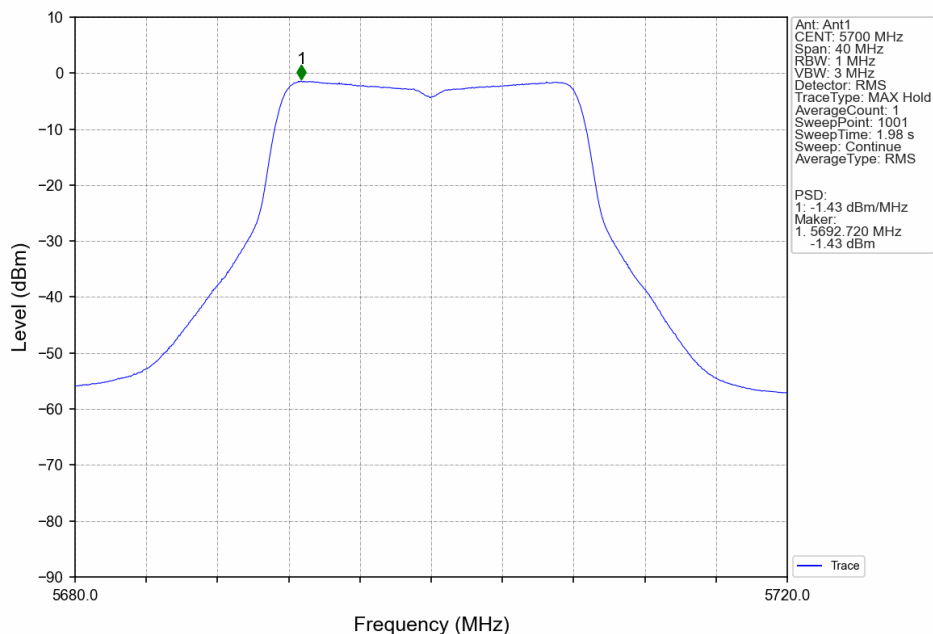
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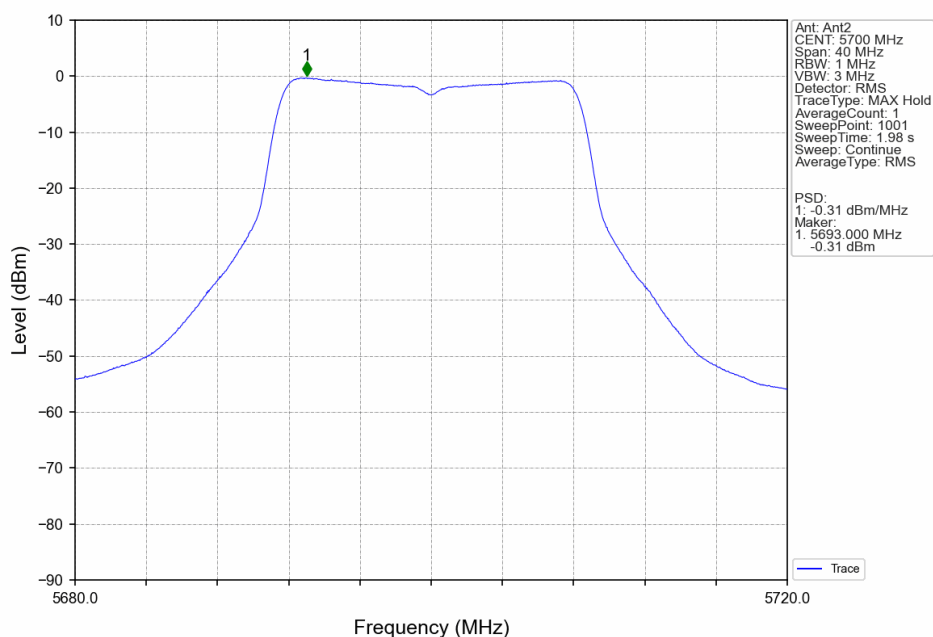
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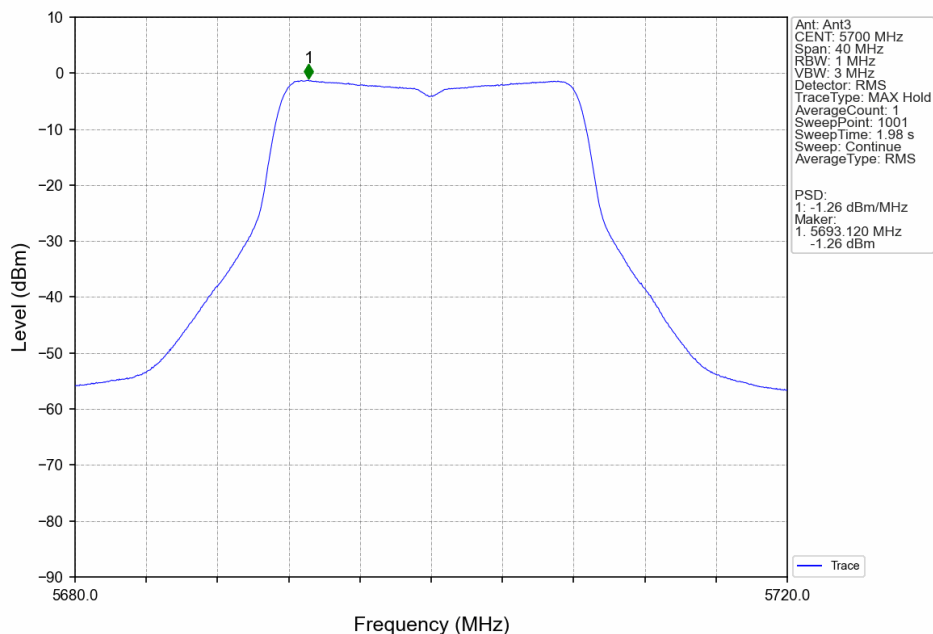
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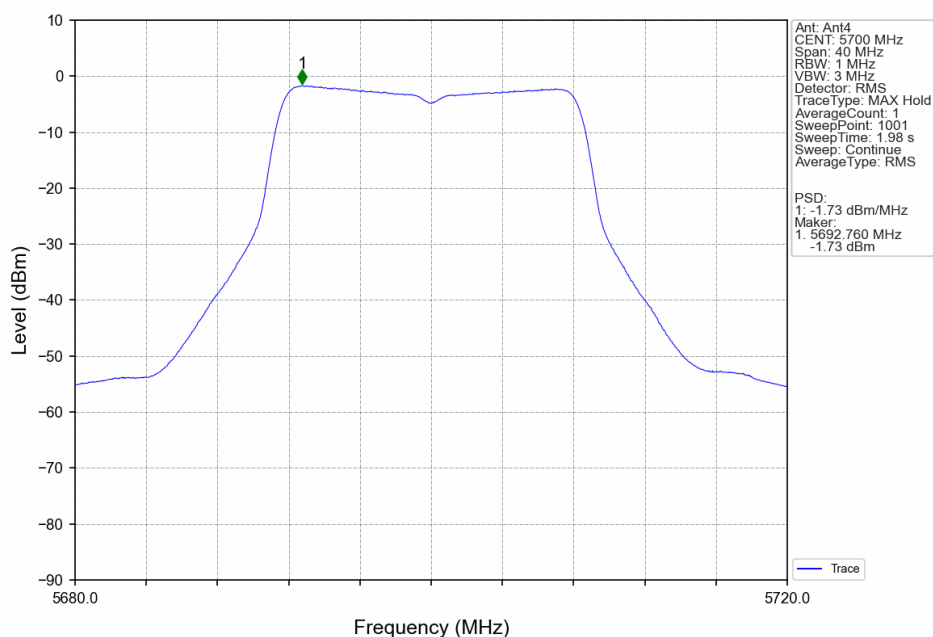
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802.11a\_HCH\_5700MHz\_Ant3\_NTNV



802.11a\_HCH\_5700MHz\_Ant4\_NTNV



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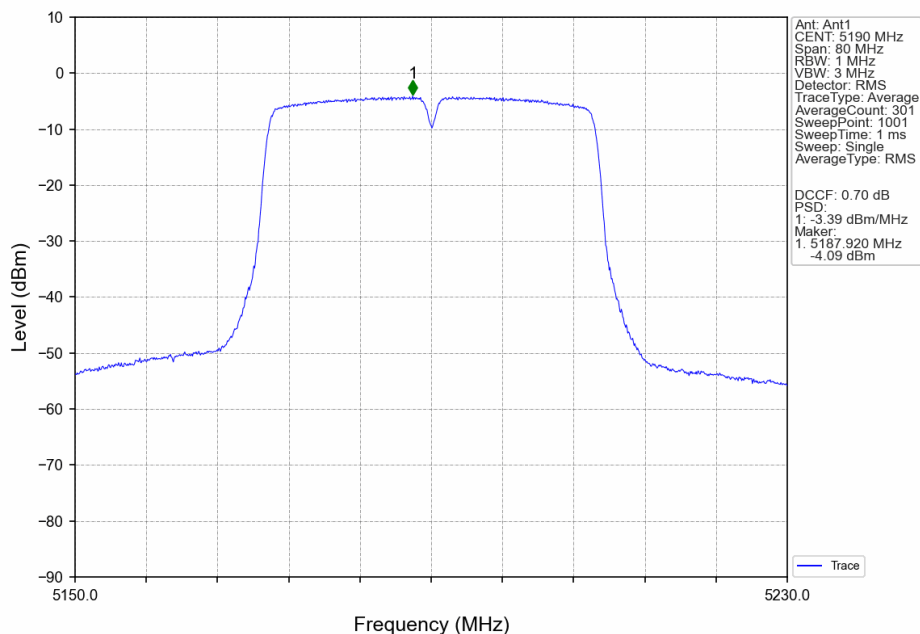
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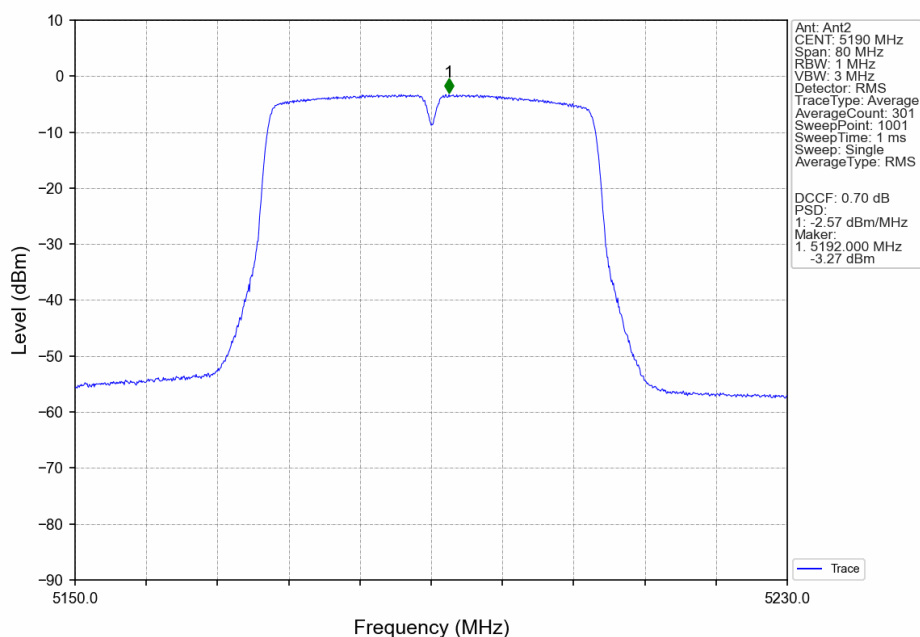
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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV



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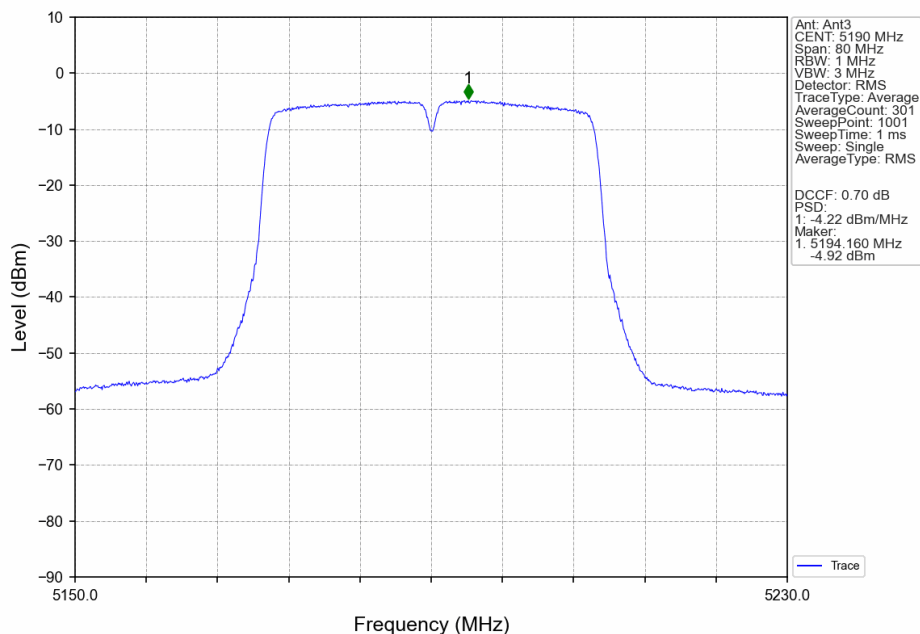
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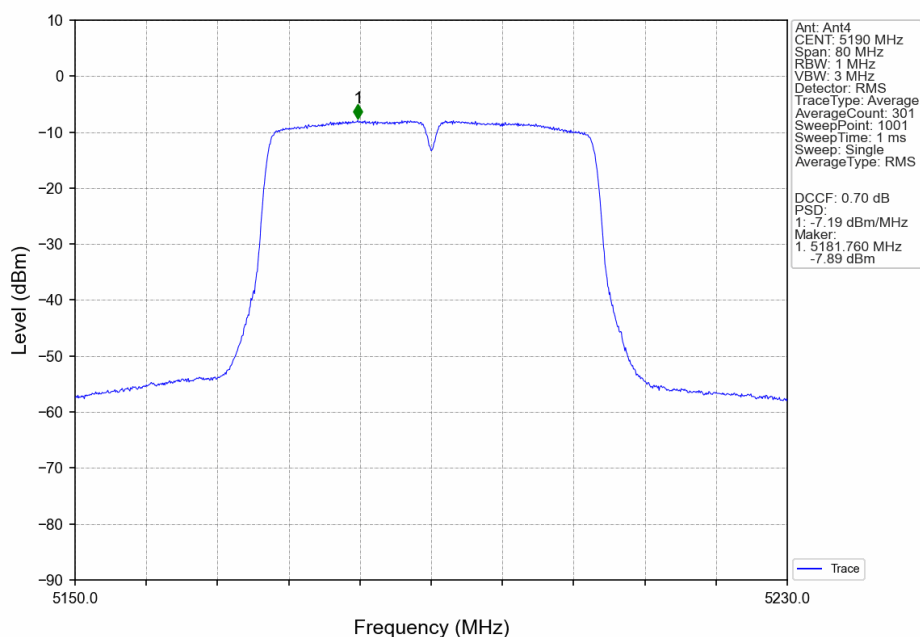
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### 802.11n(HT40)\_LCH\_5190MHz\_Ant3\_NTNV



### 802.11n(HT40)\_LCH\_5190MHz\_Ant4\_NTNV



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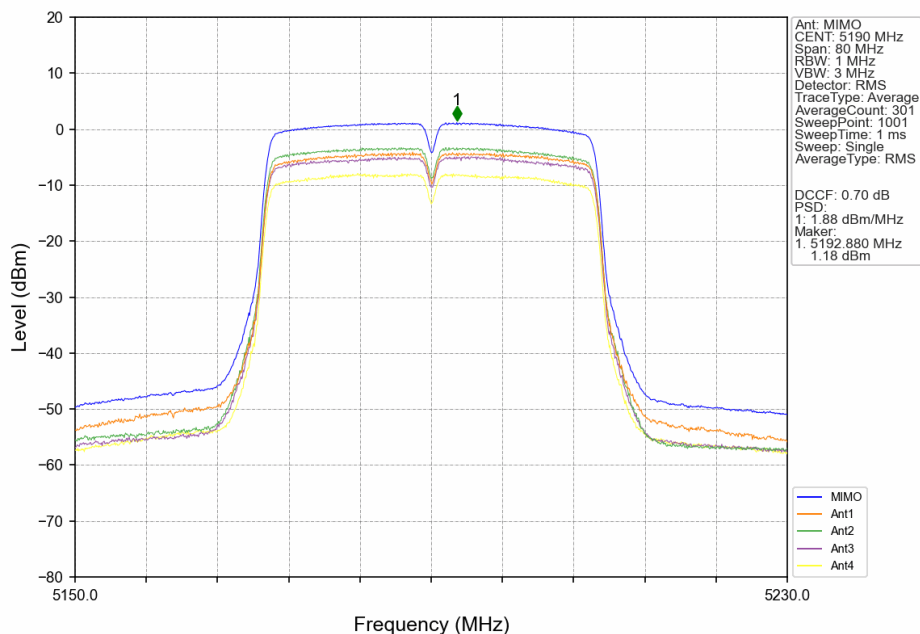
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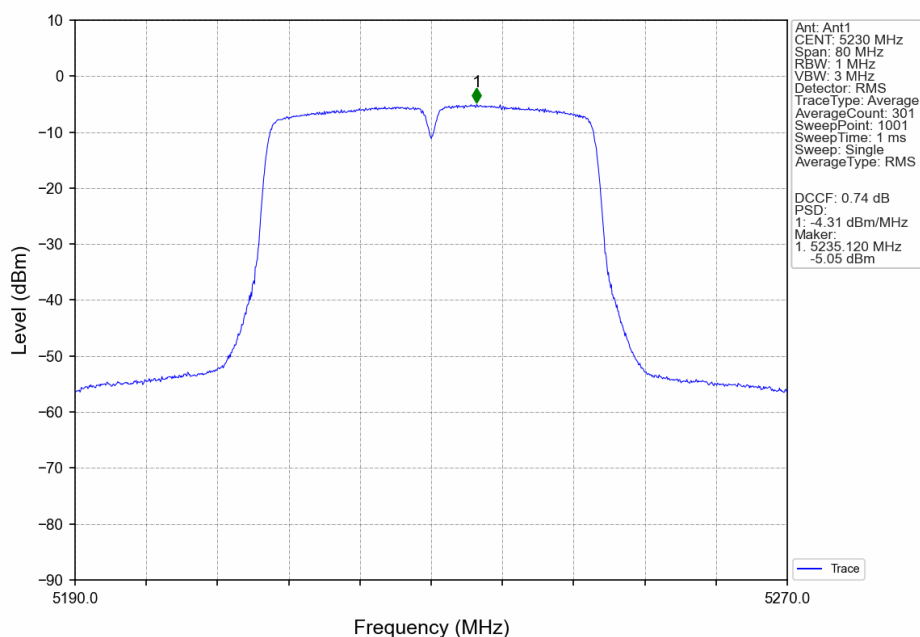
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### 802.11n(HT40)\_LCH\_5190MHz\_MIMO\_NTNV



### 802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



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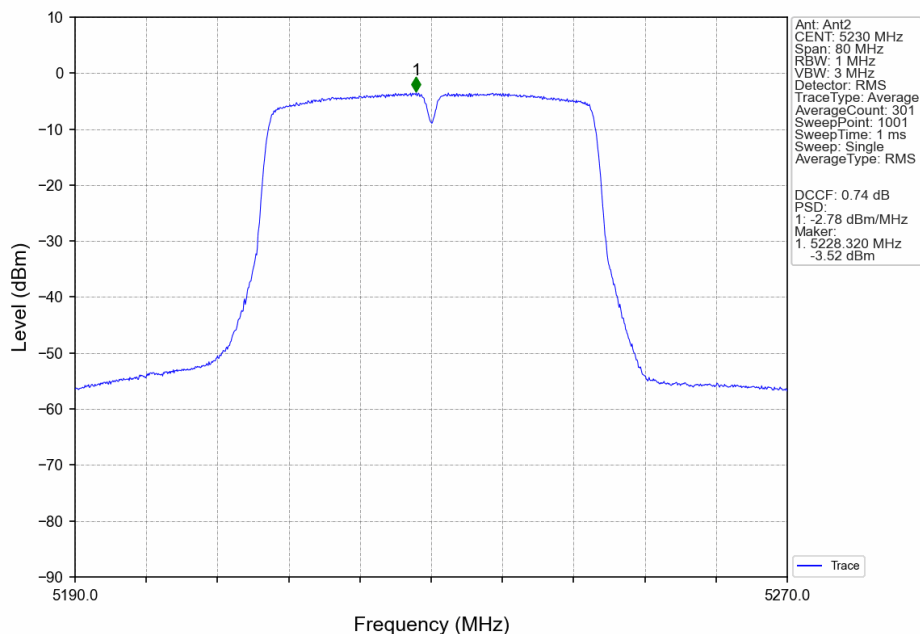
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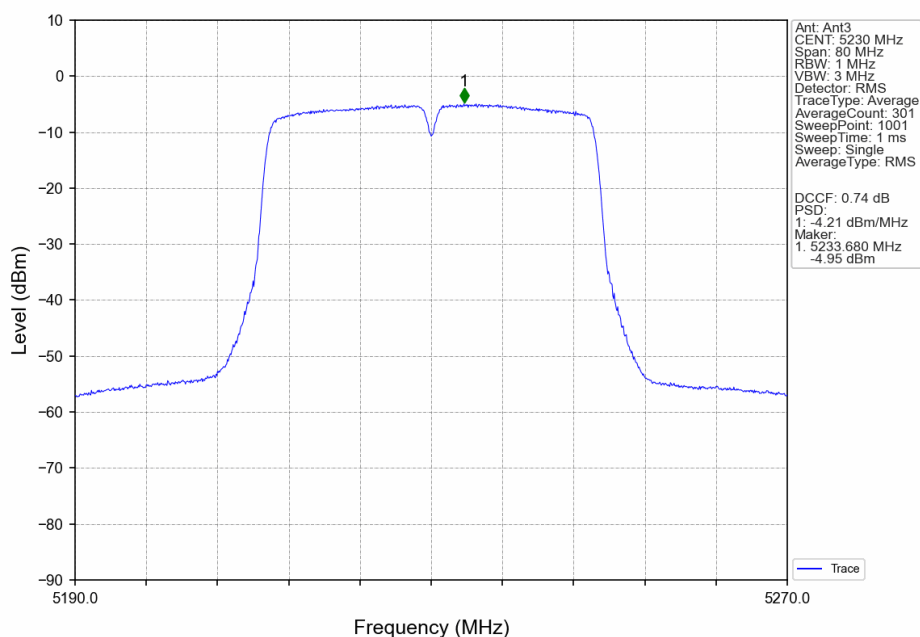
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802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV



802.11n(HT40)\_HCH\_5230MHz\_Ant3\_NTNV



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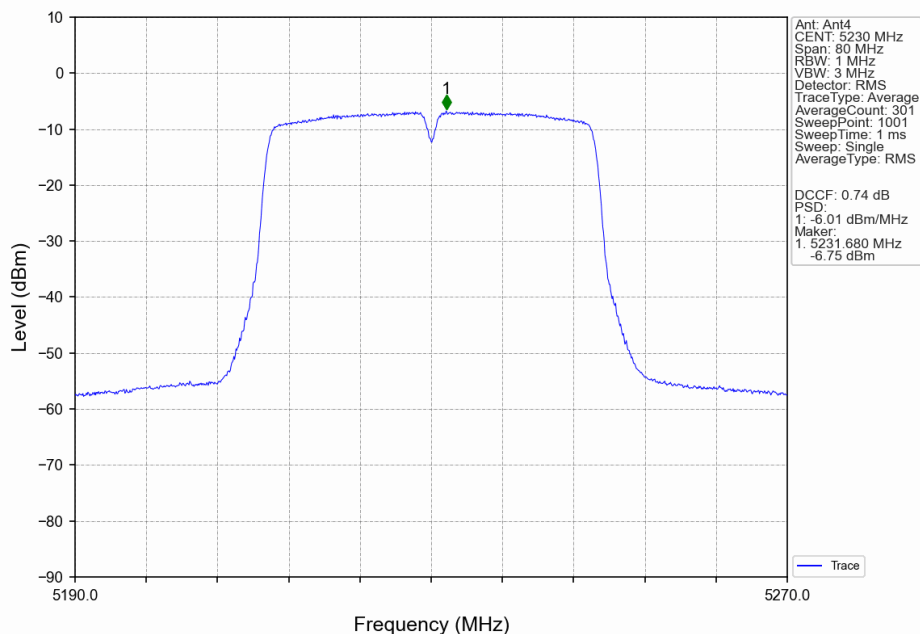
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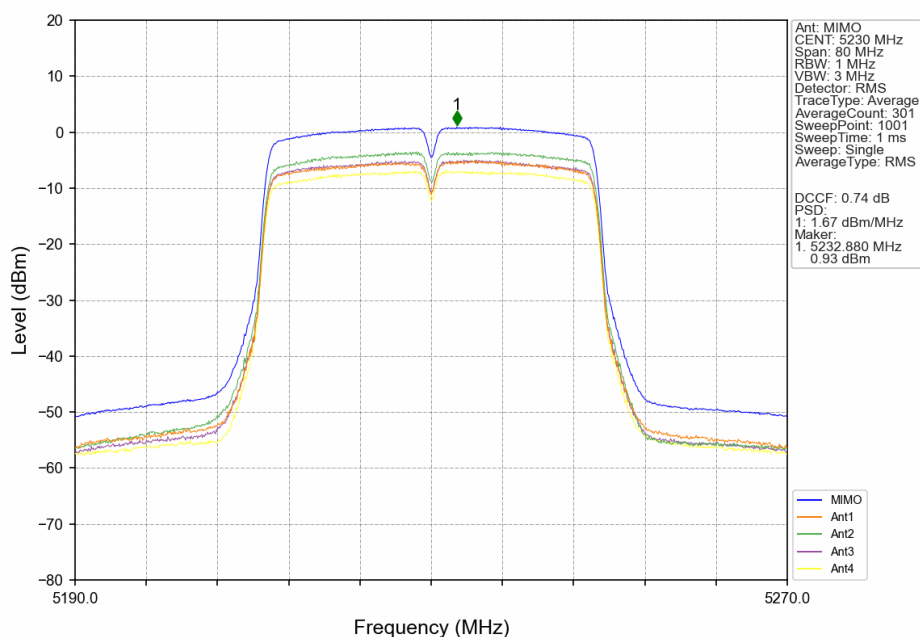
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### 802.11n(HT40)\_HCH\_5230MHz\_Ant4\_NTNV



### 802.11n(HT40)\_HCH\_5230MHz\_MIMO\_NTNV



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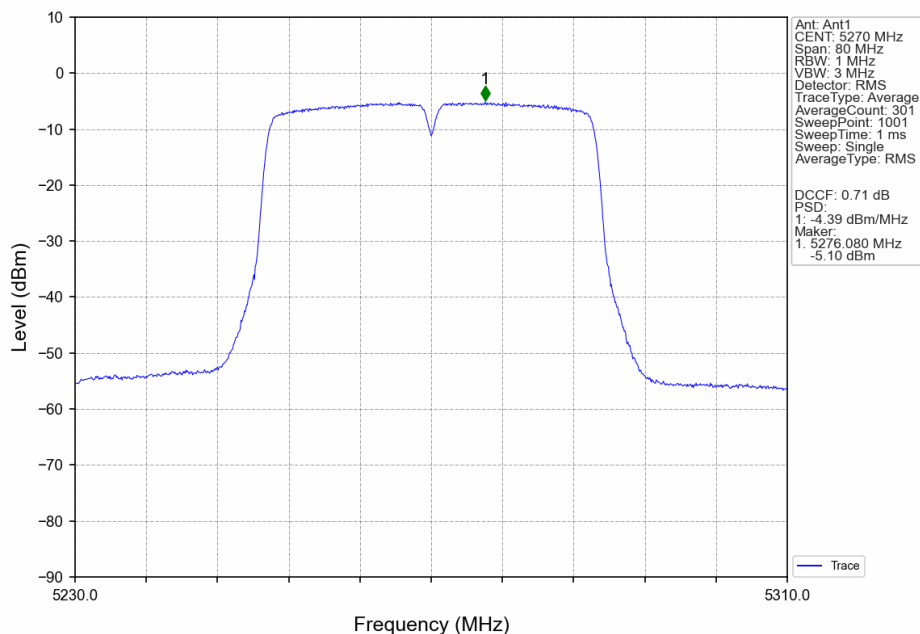
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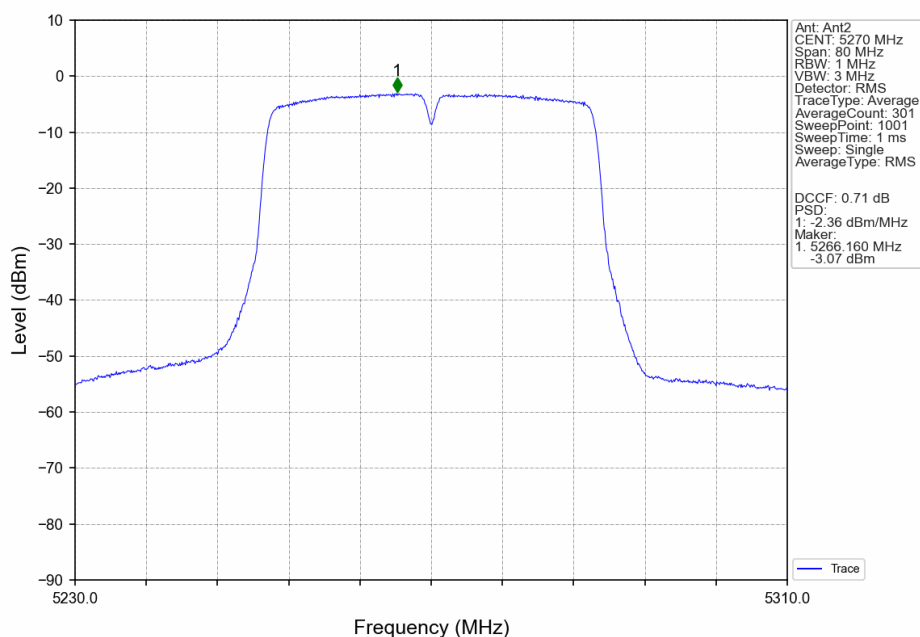
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802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5270MHz\_Ant2\_NTNV



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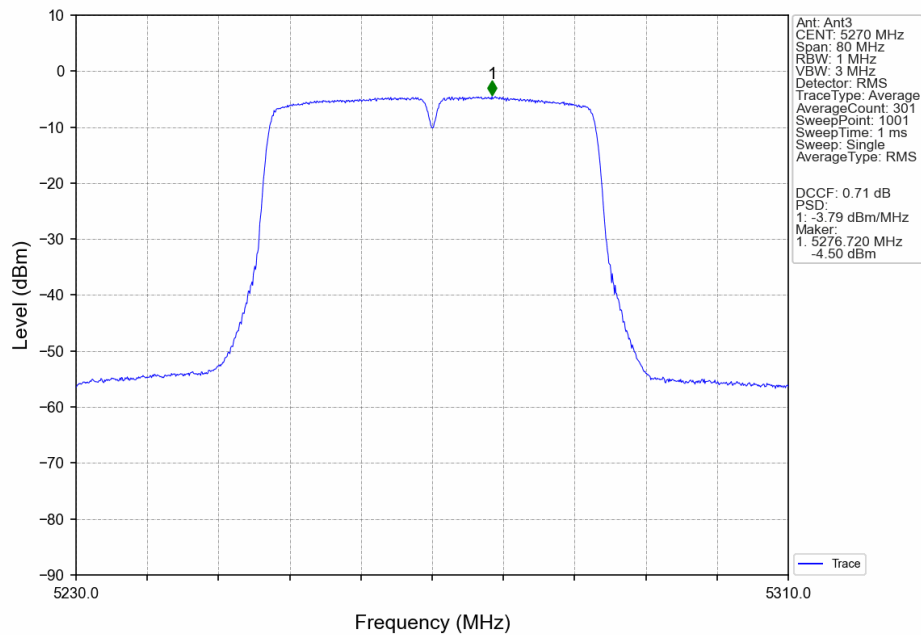
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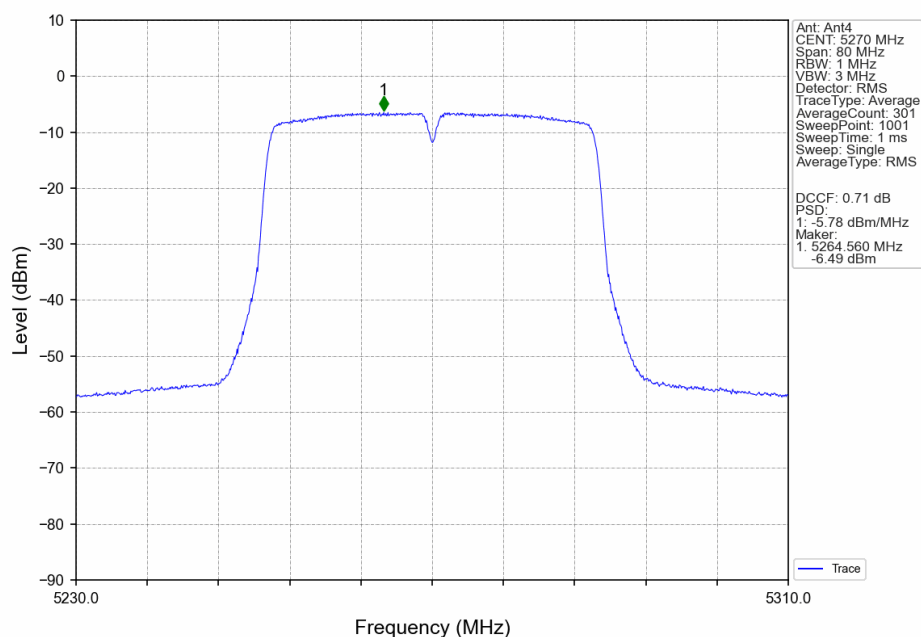
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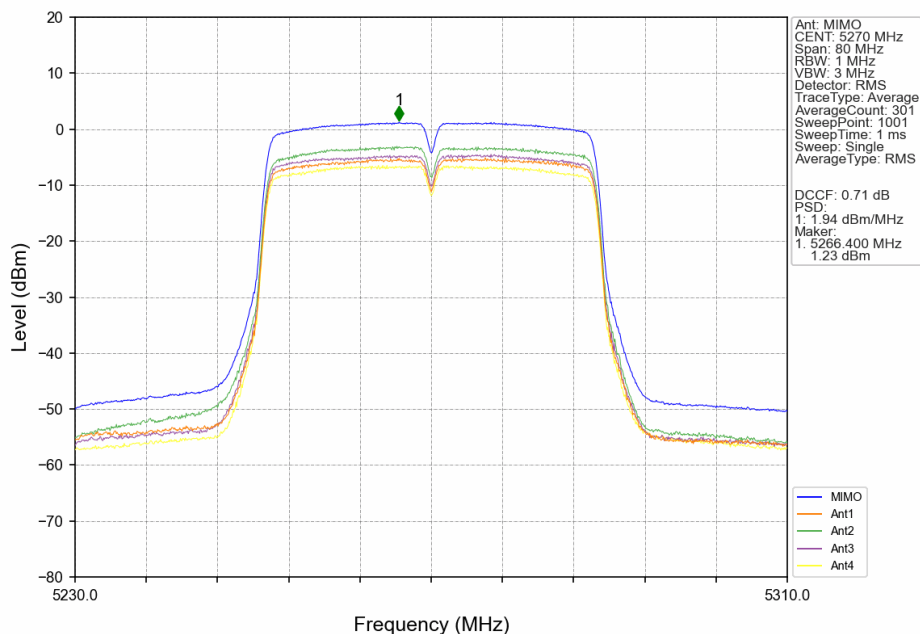
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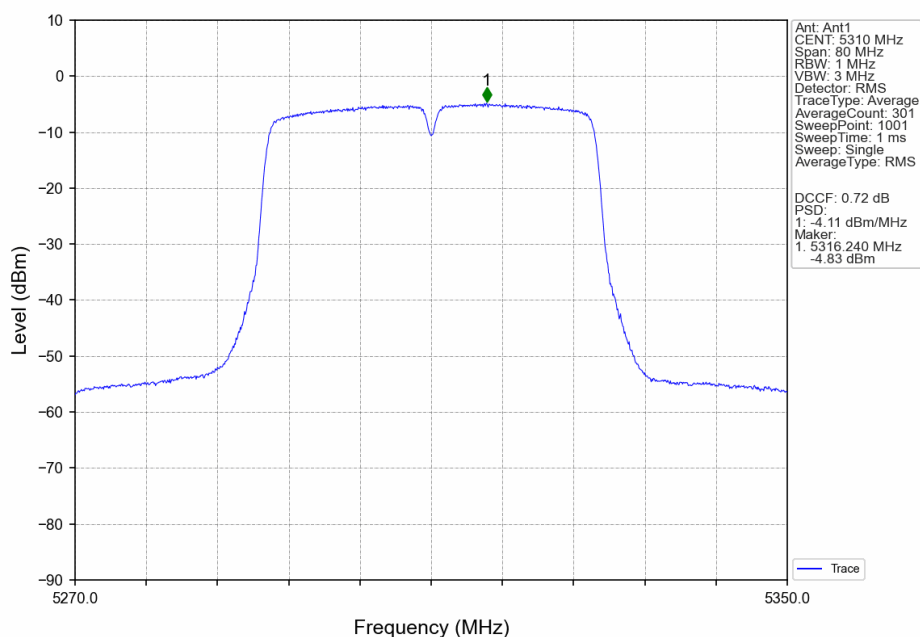
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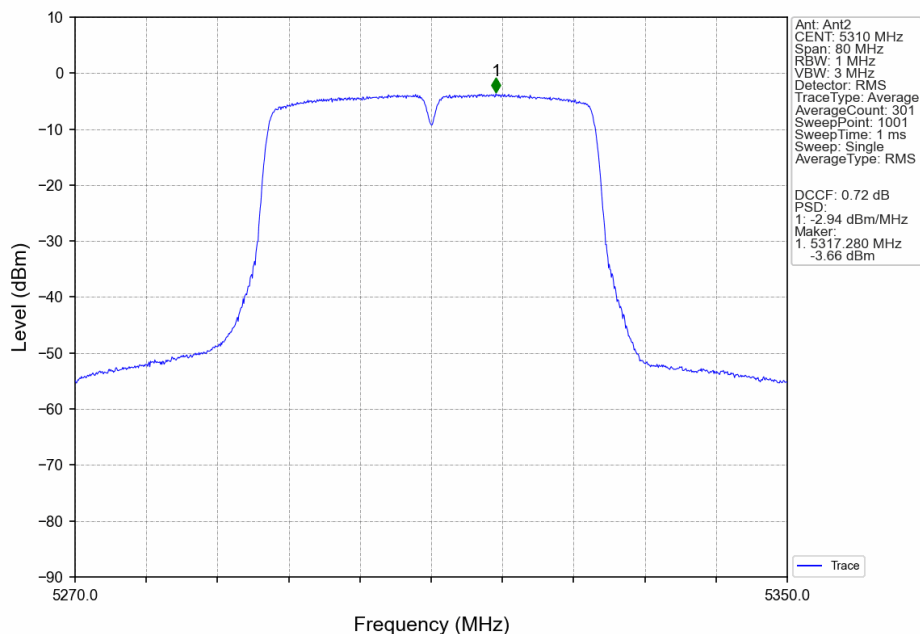
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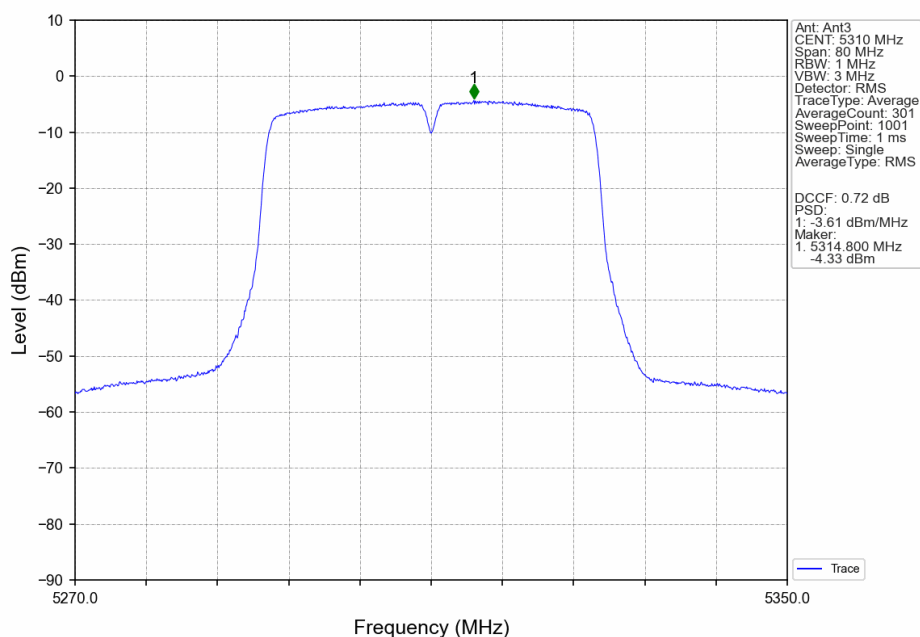
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802.11n(HT40)\_HCH\_5310MHz\_Ant2\_NTNV



802.11n(HT40)\_HCH\_5310MHz\_Ant3\_NTNV



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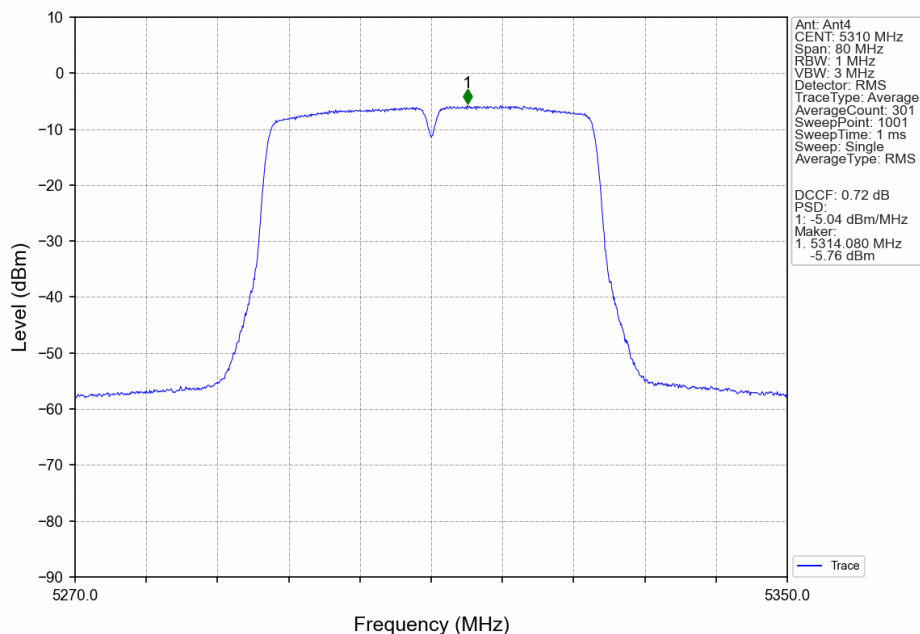
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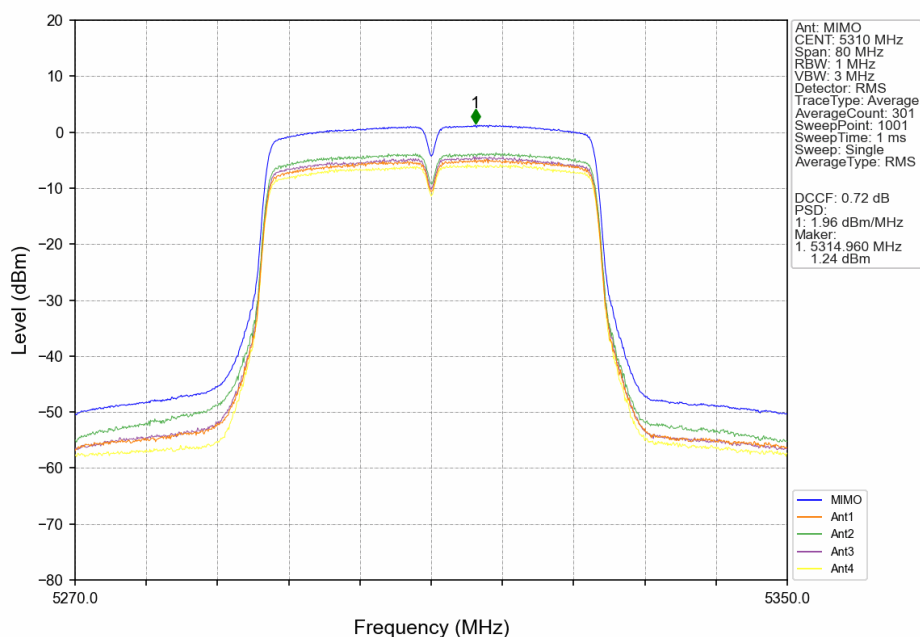
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### 802.11n(HT40)\_HCH\_5310MHz\_MIMO\_NTNV



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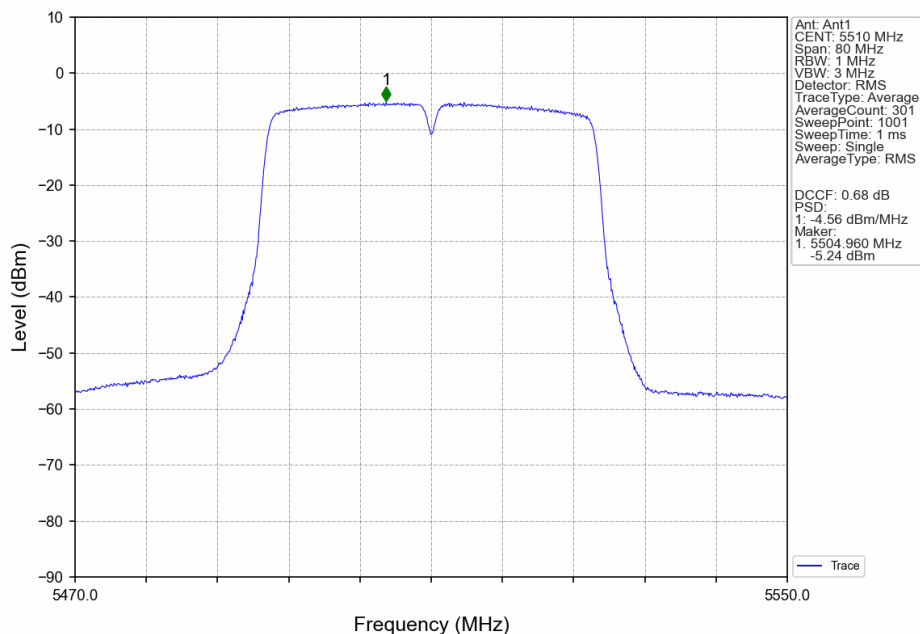
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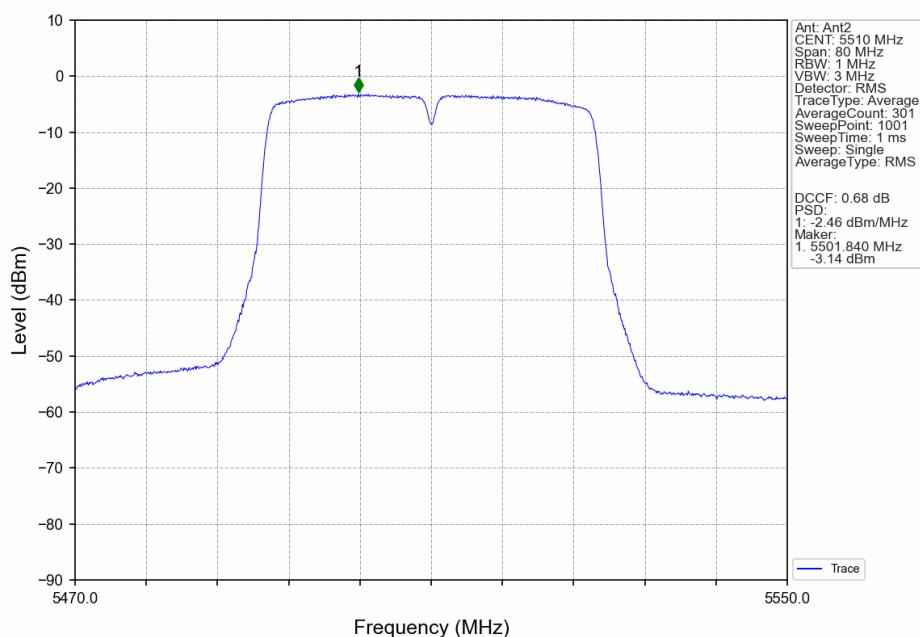
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### 802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV



### 802.11n(HT40)\_LCH\_5510MHz\_Ant2\_NTNV



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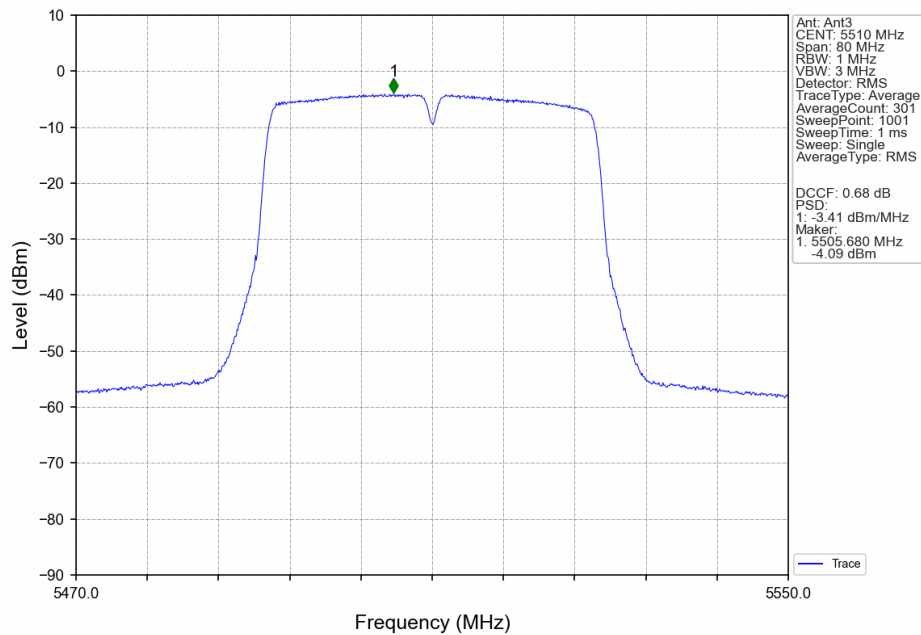
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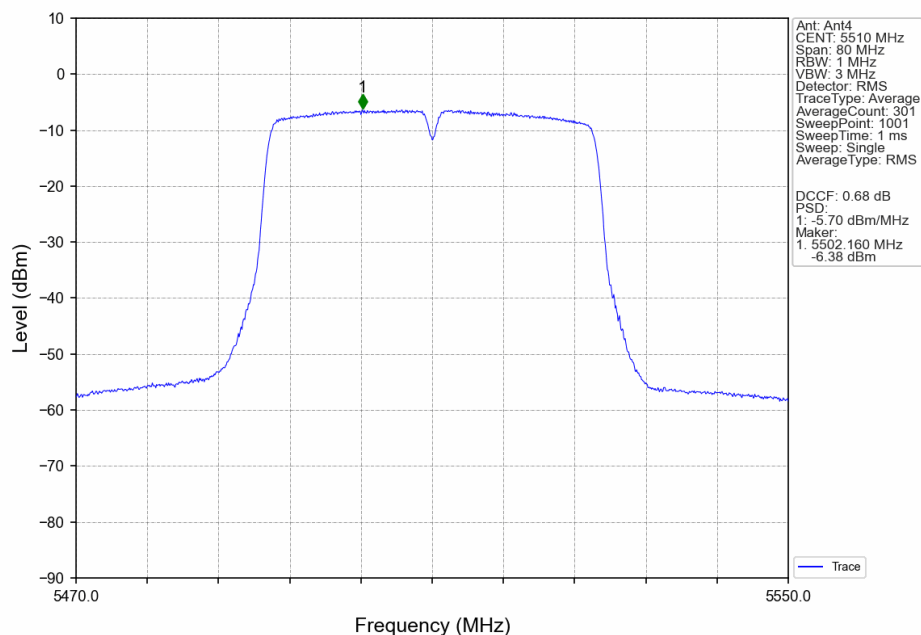
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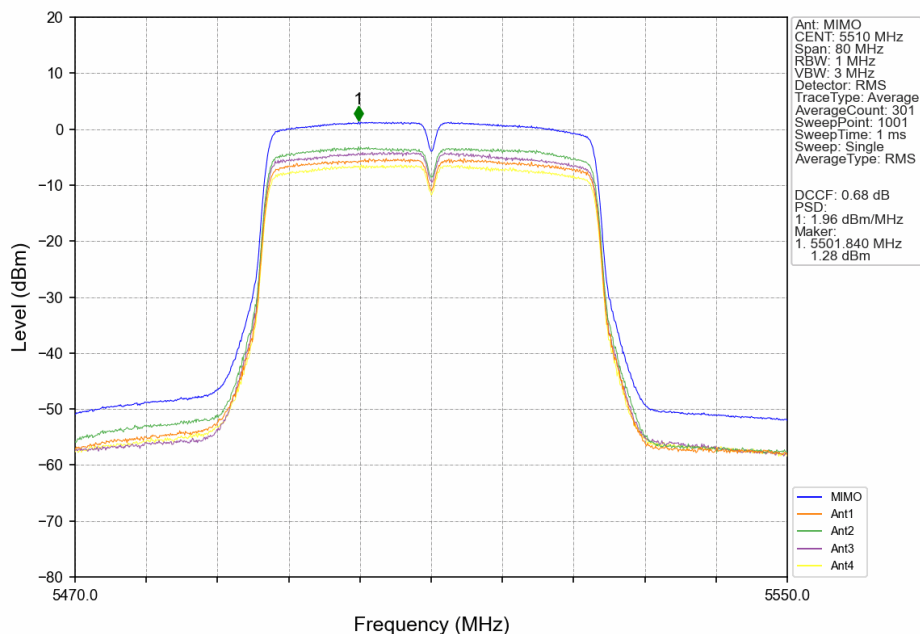
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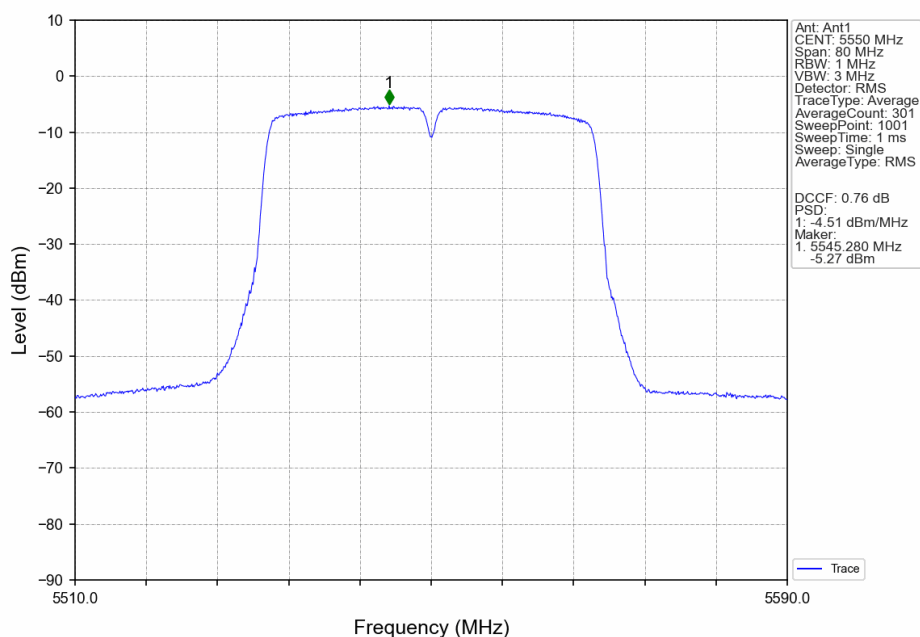
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### 802.11n(HT40)\_LCH\_5510MHz\_MIMO\_NTNV



### 802.11n(HT40)\_MCH\_5550MHz\_Ant1\_NTNV



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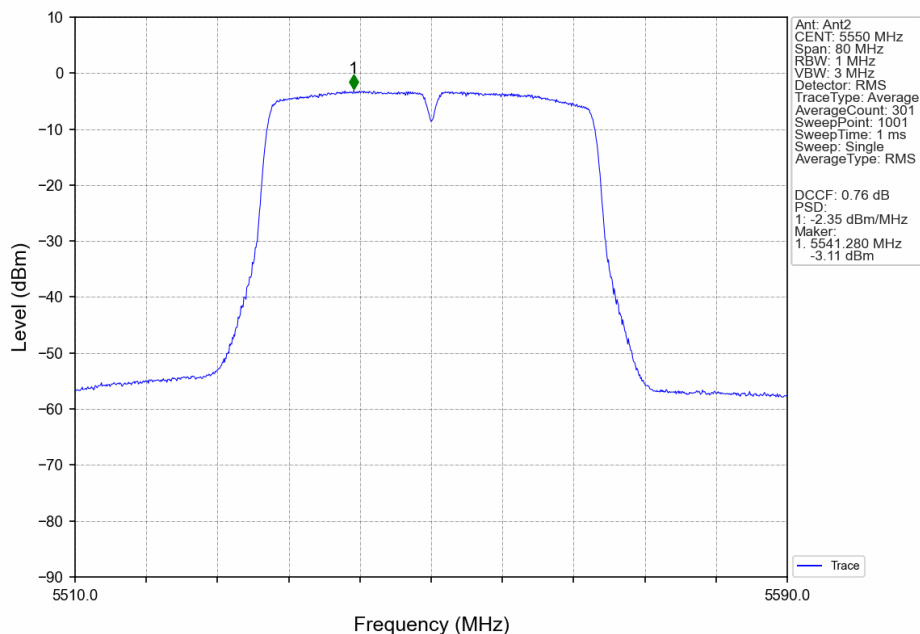
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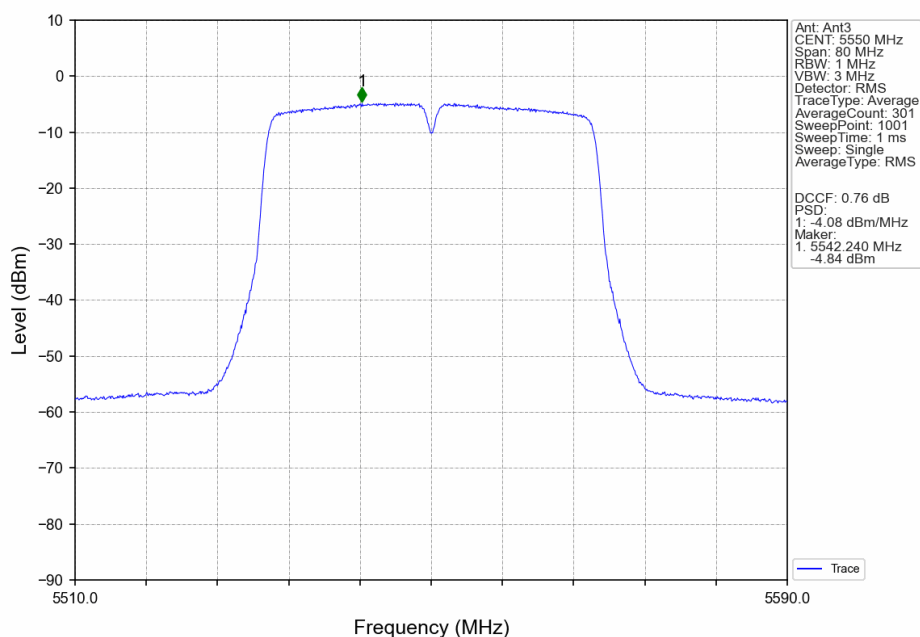
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802.11n(HT40)\_MCH\_5550MHz\_Ant2\_NTNV



802.11n(HT40)\_MCH\_5550MHz\_Ant3\_NTNV



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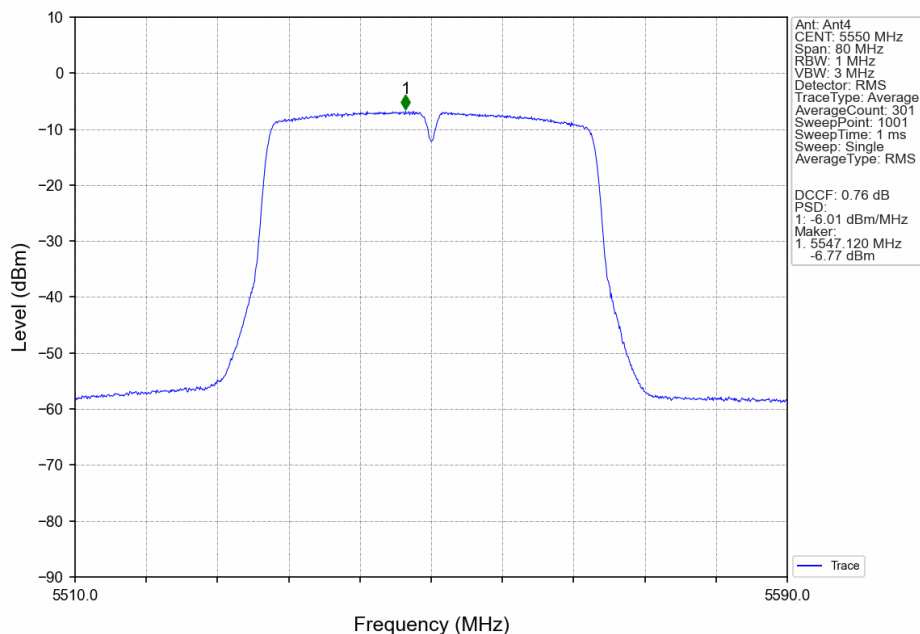
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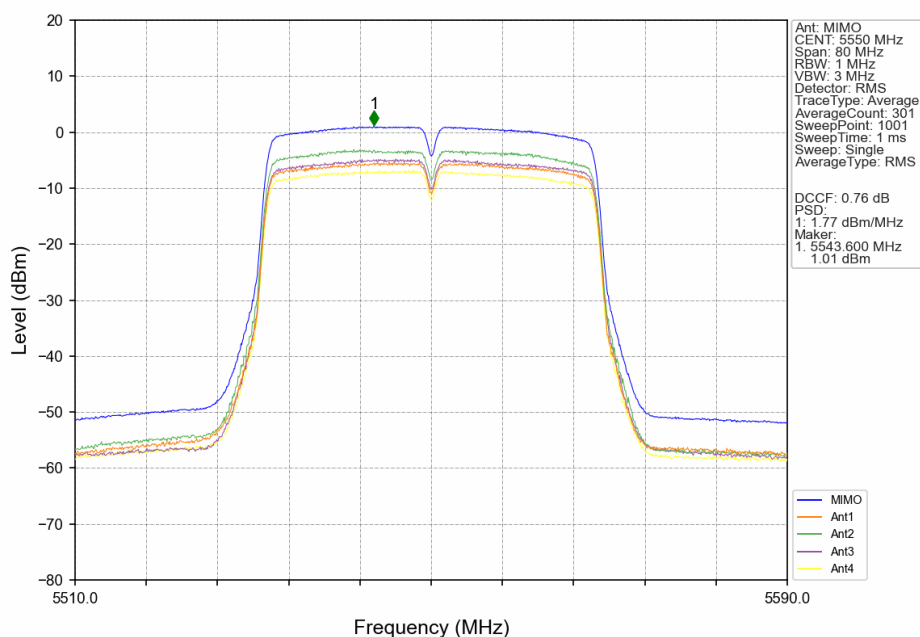
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### 802.11n(HT40)\_MCH\_5550MHz\_Ant4\_NTNV



### 802.11n(HT40)\_MCH\_5550MHz\_MIMO\_NTNV



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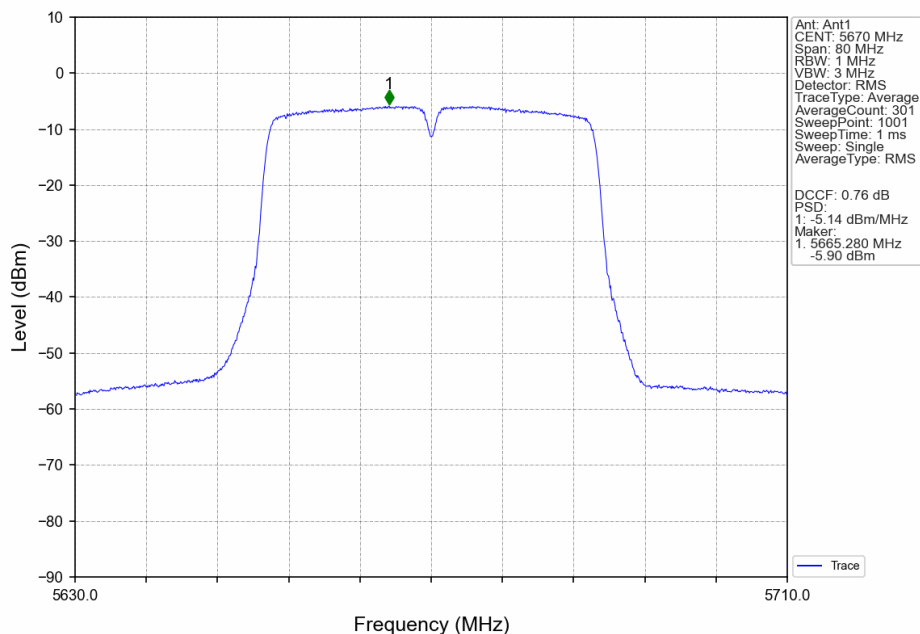
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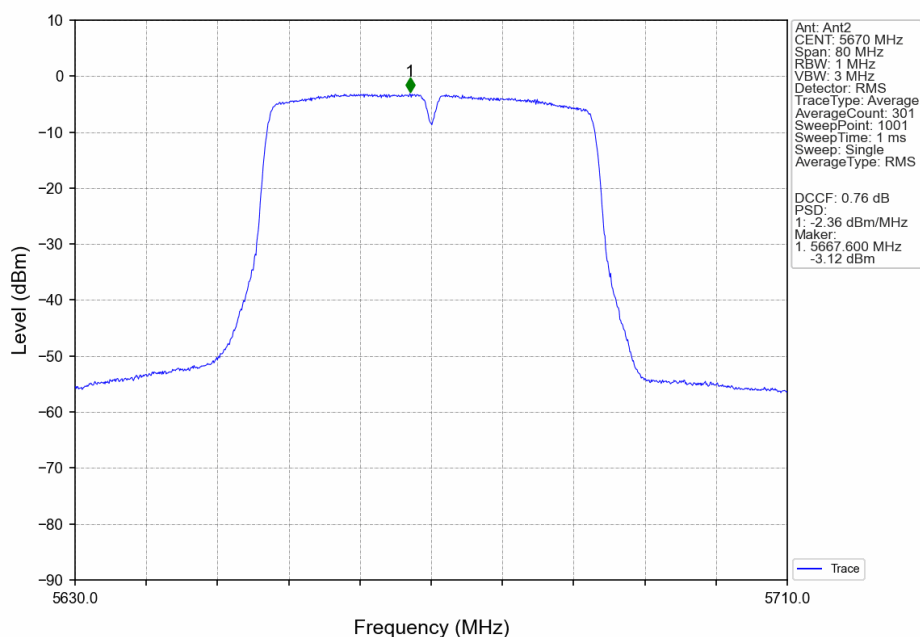
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802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5670MHz\_Ant2\_NTNV



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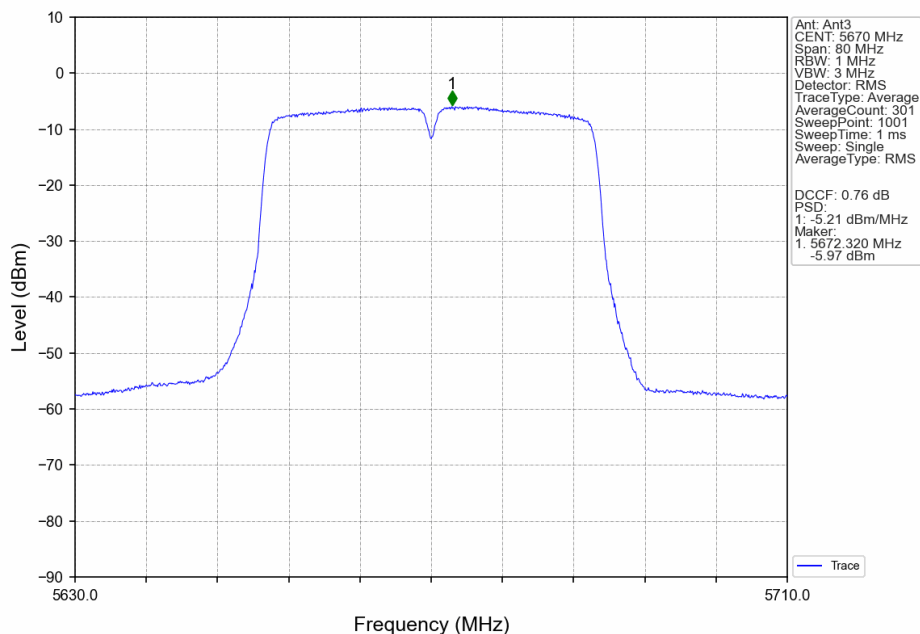
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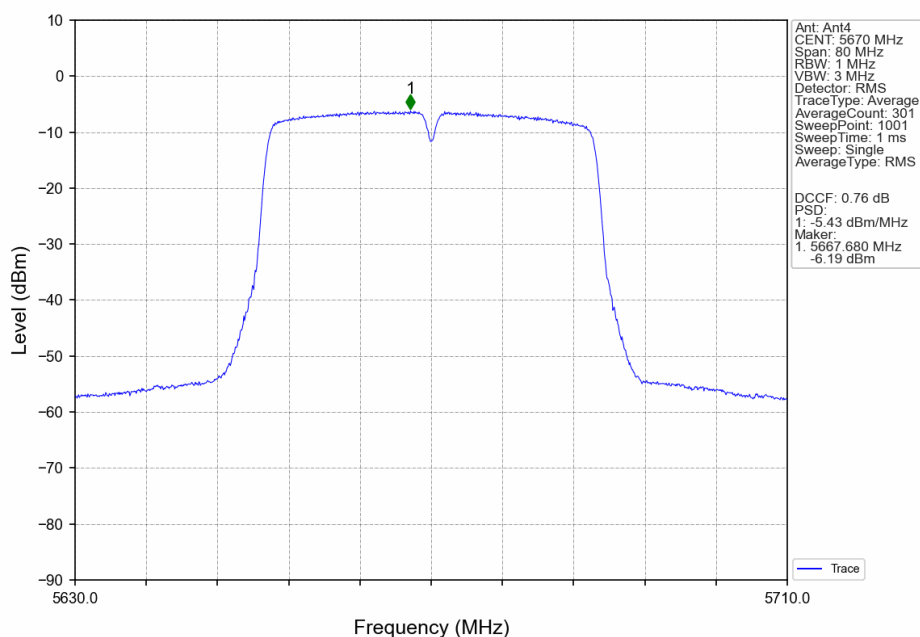
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802.11n(HT40)\_HCH\_5670MHz\_Ant3\_NTNV



802.11n(HT40)\_HCH\_5670MHz\_Ant4\_NTNV



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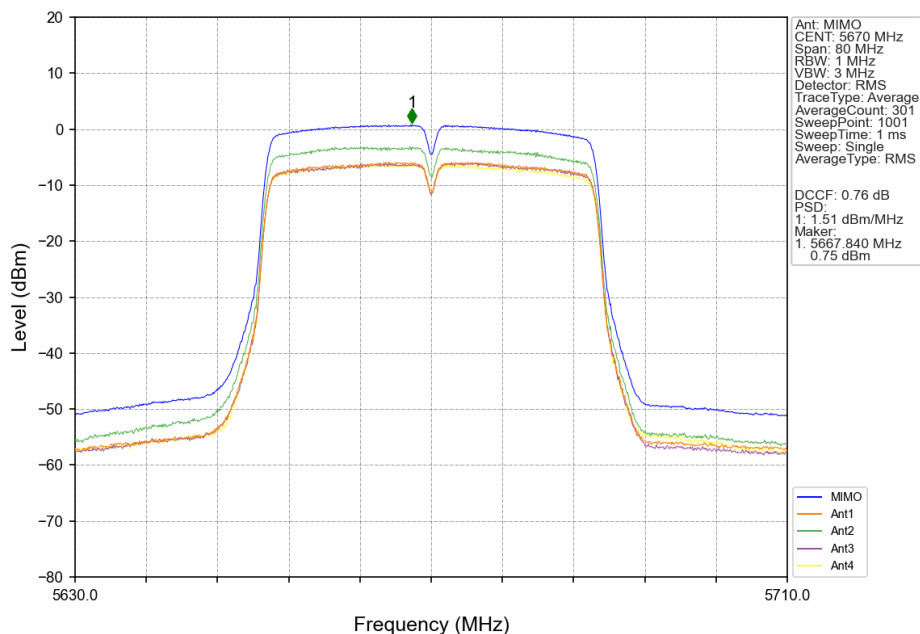
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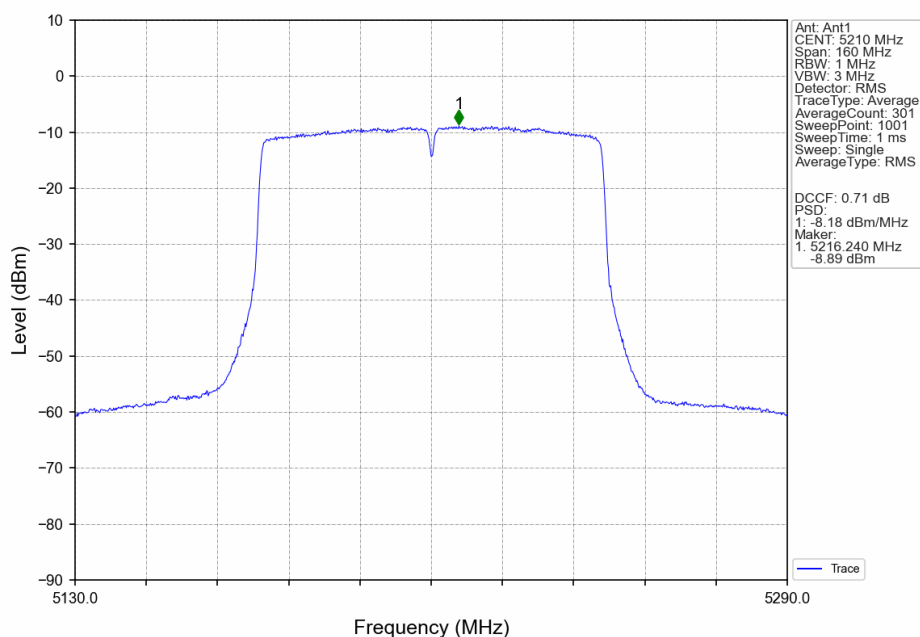
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### 802.11n(HT40)\_HCH\_5670MHz\_MIMO\_NTNV



### 802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



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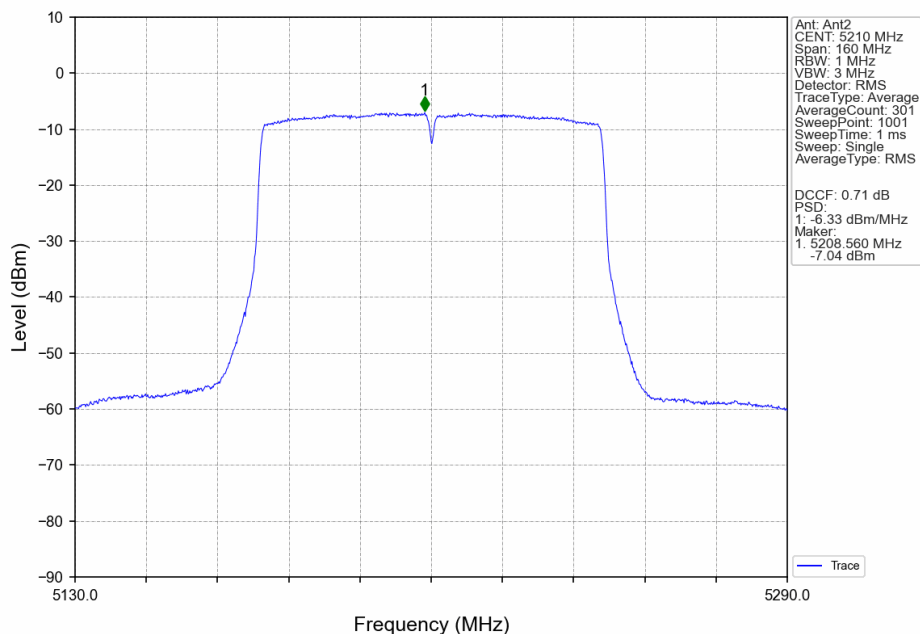
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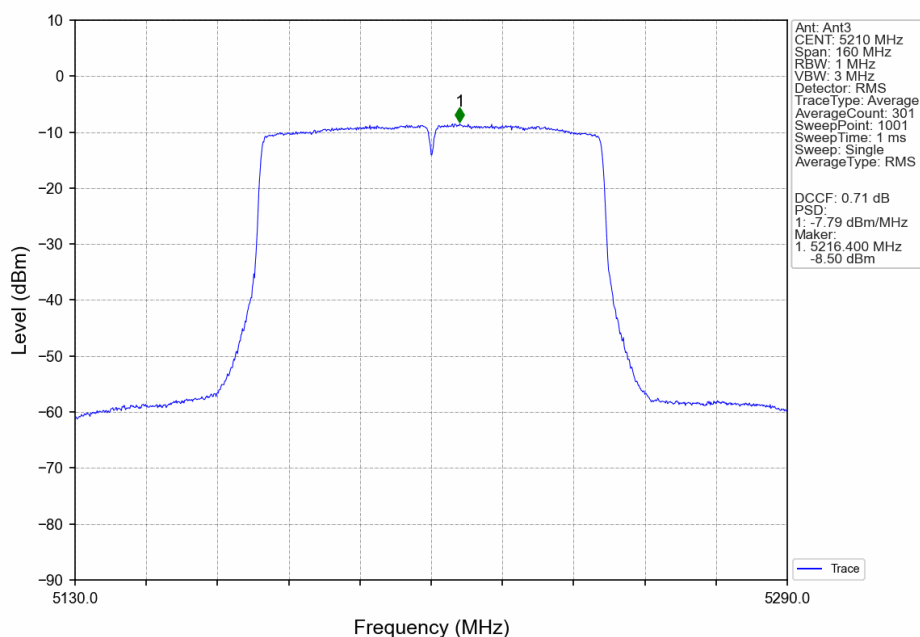
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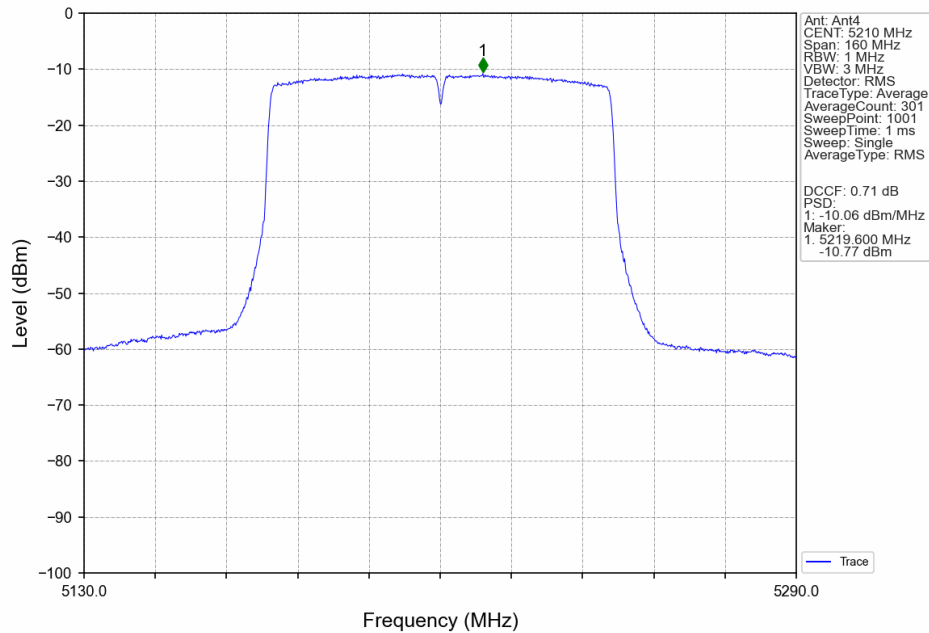
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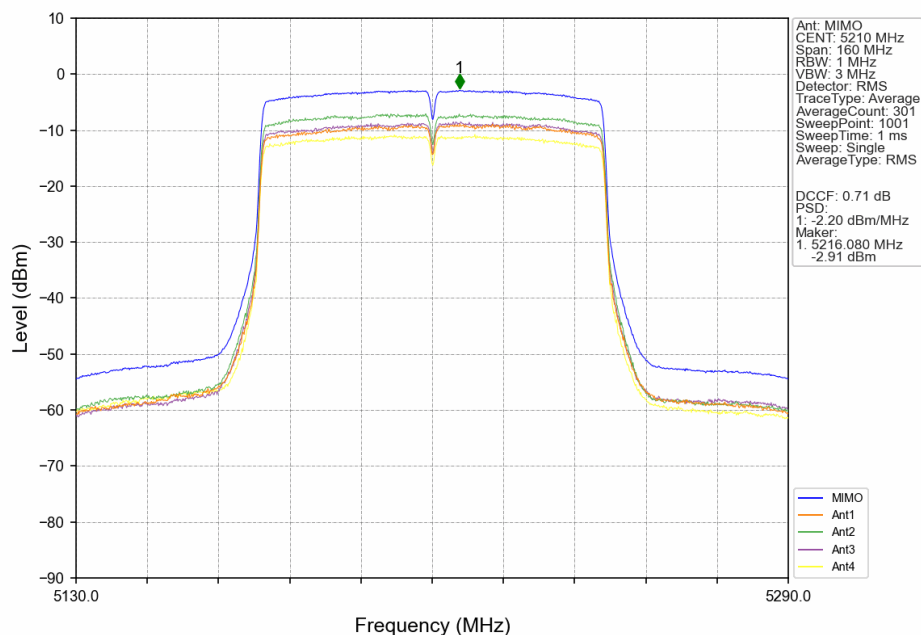
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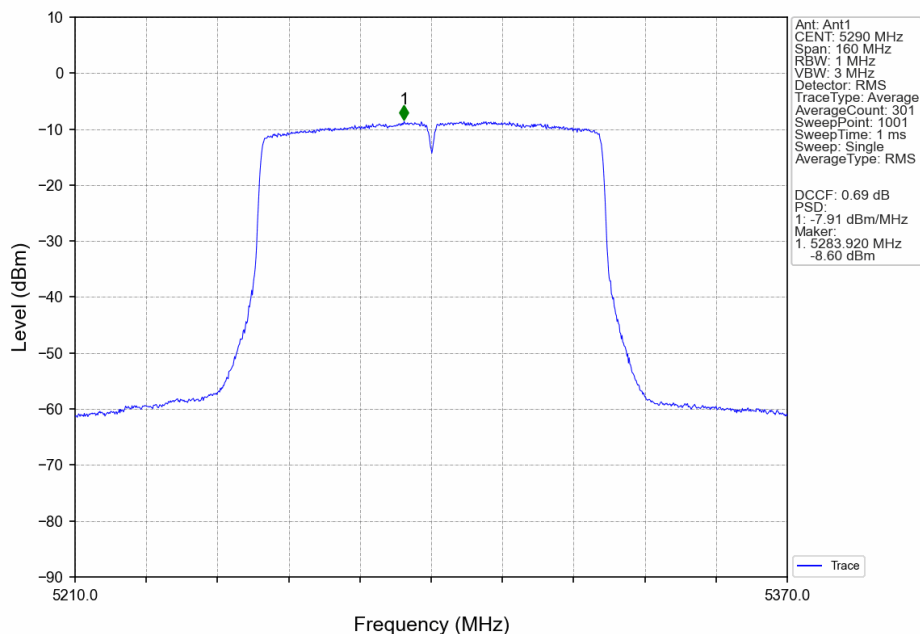
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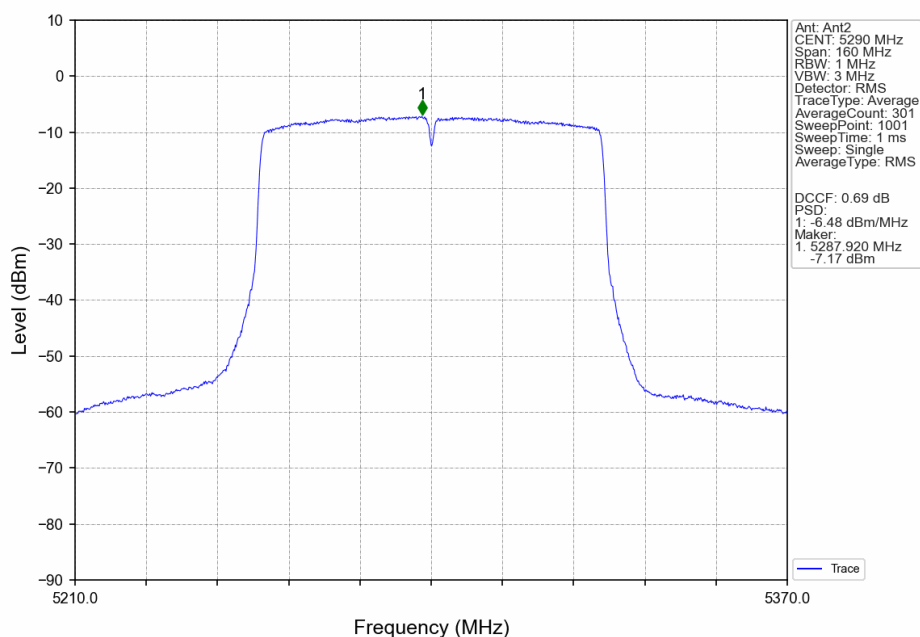
802.11ac(VHT80)\_MCH\_5210MHz\_MIMO\_NTNV



### 802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



### 802.11ac(VHT80)\_MCH\_5290MHz\_Ant2\_NTNV



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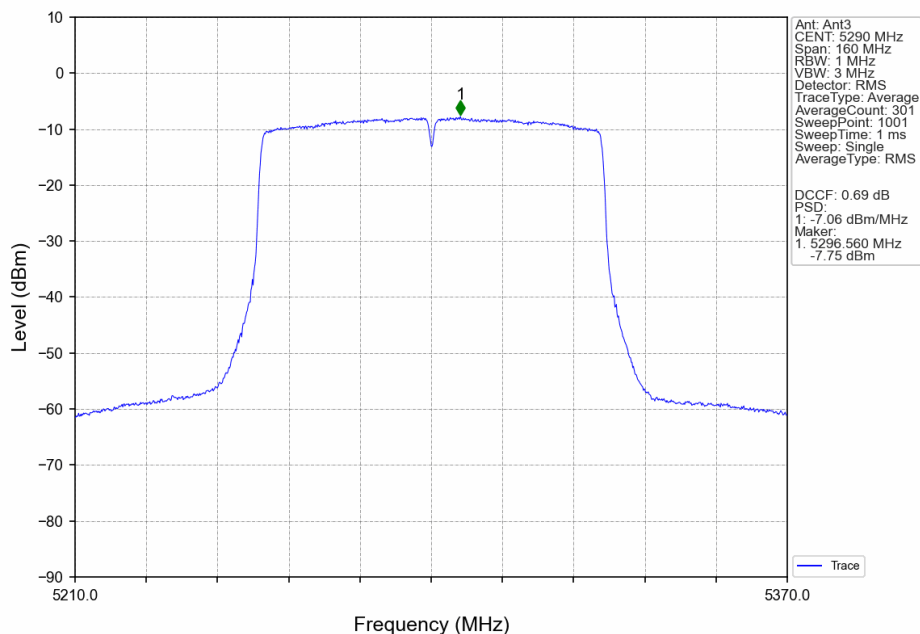
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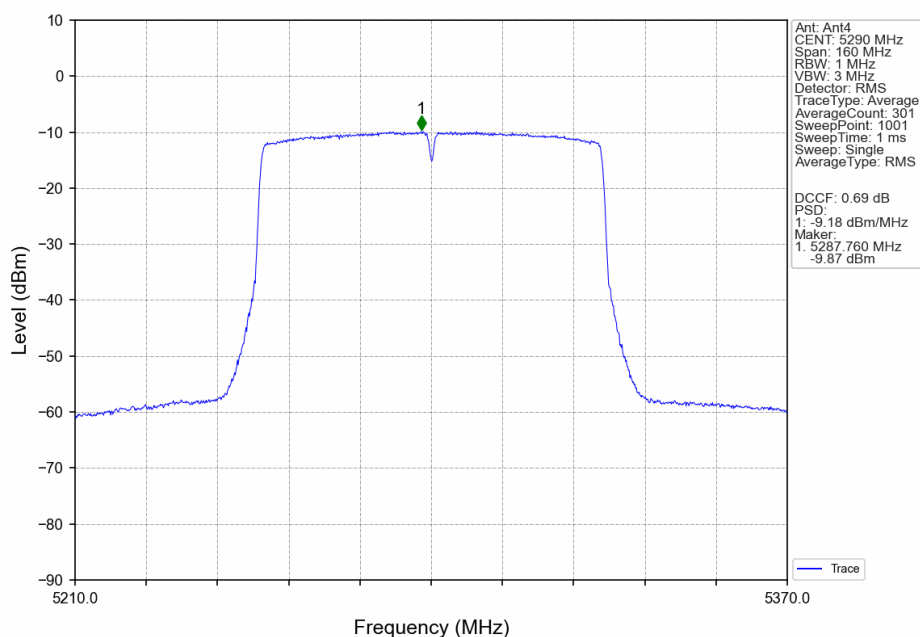
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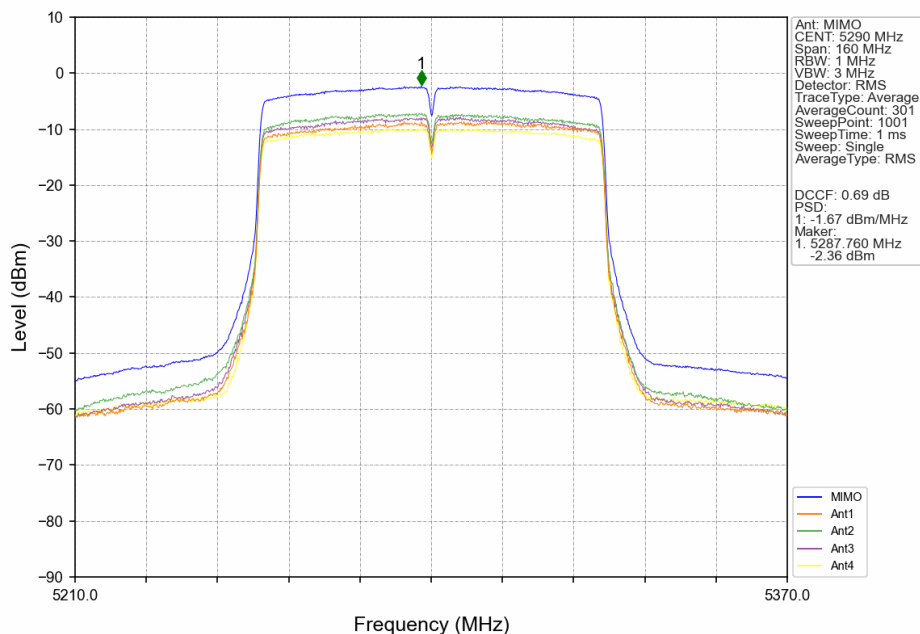
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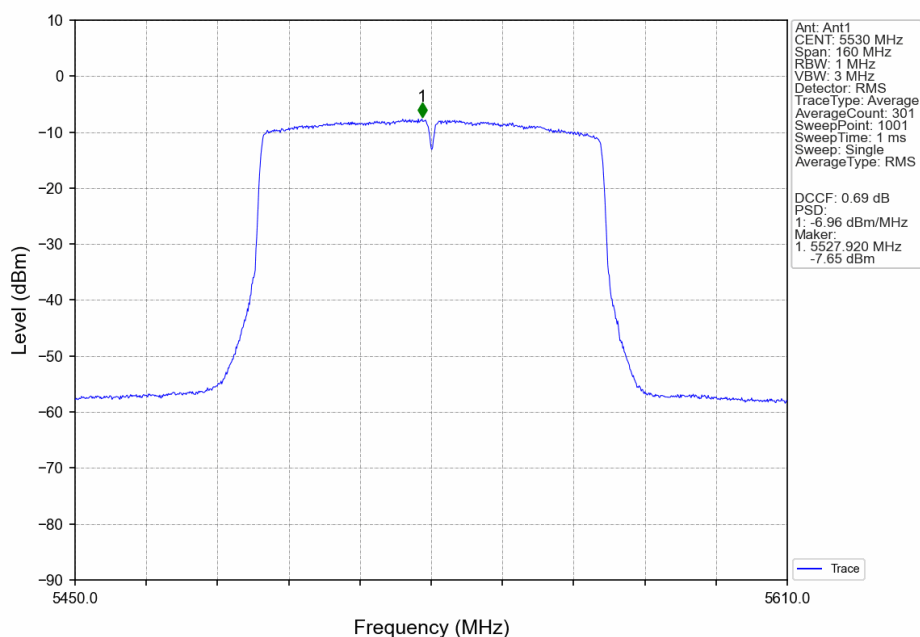
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### 802.11ac(VHT80)\_MCH\_5290MHz\_MIMO\_NTNV



### 802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



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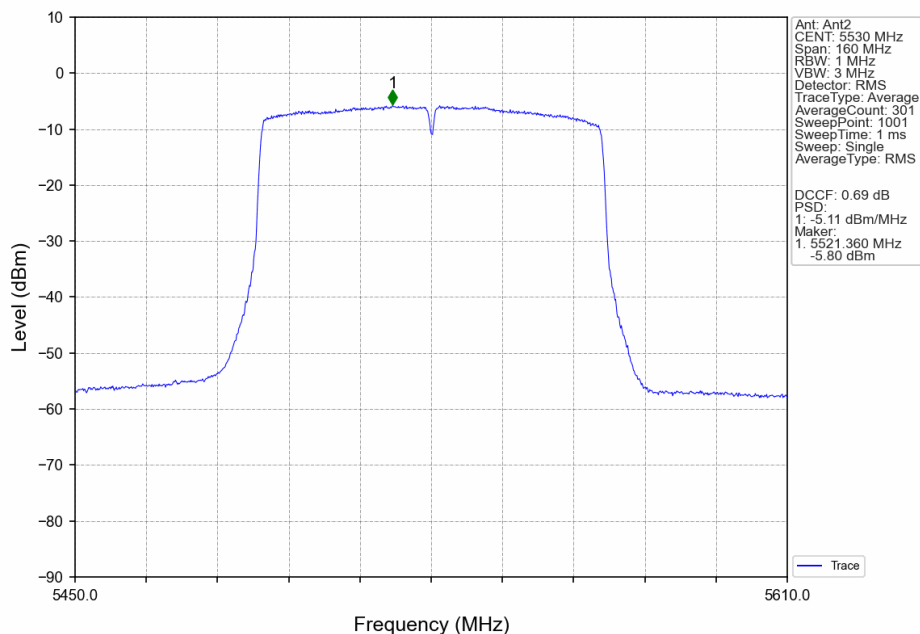
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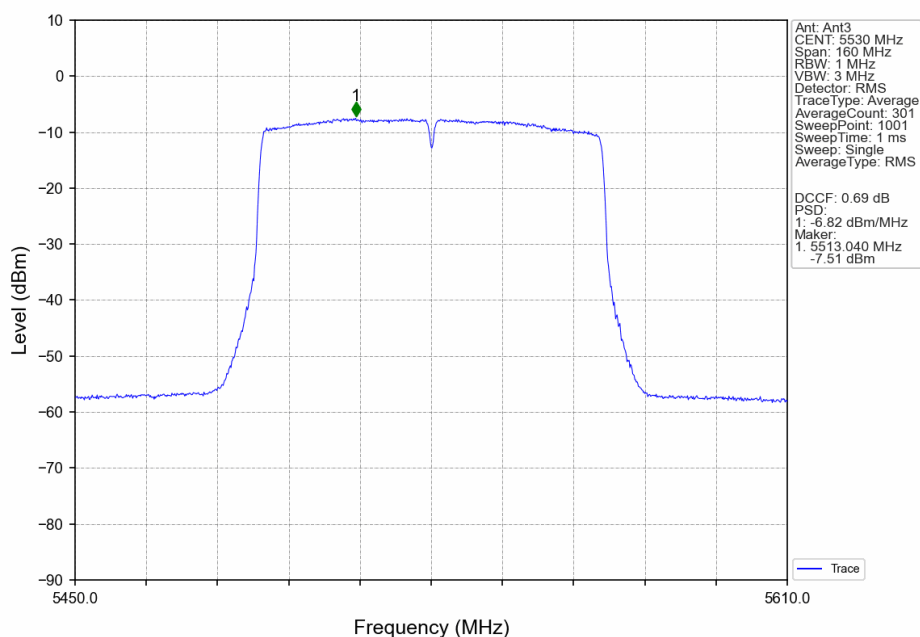
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802.11ac(VHT80)\_LCH\_5530MHz\_Ant2\_NTNV



802.11ac(VHT80)\_LCH\_5530MHz\_Ant3\_NTNV



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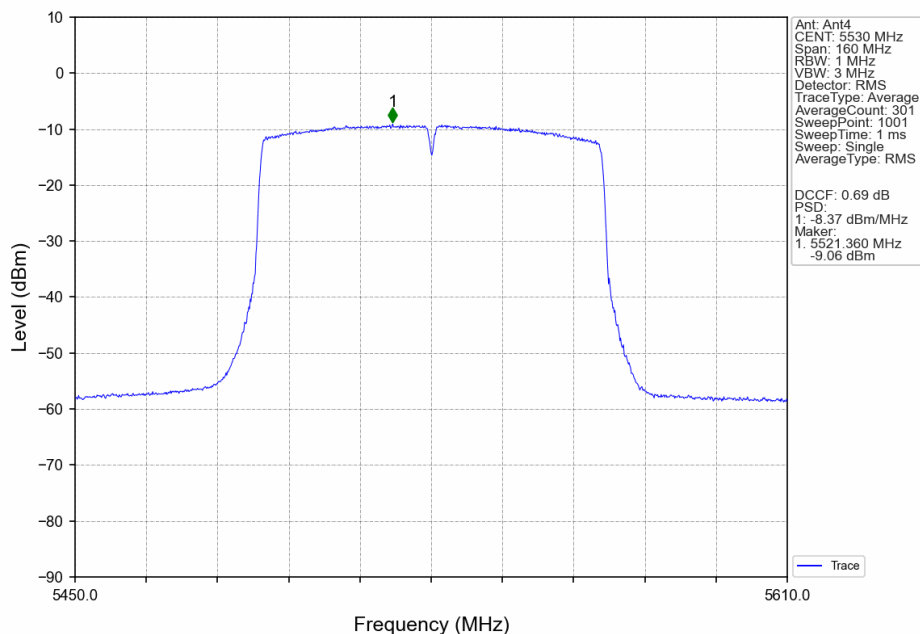
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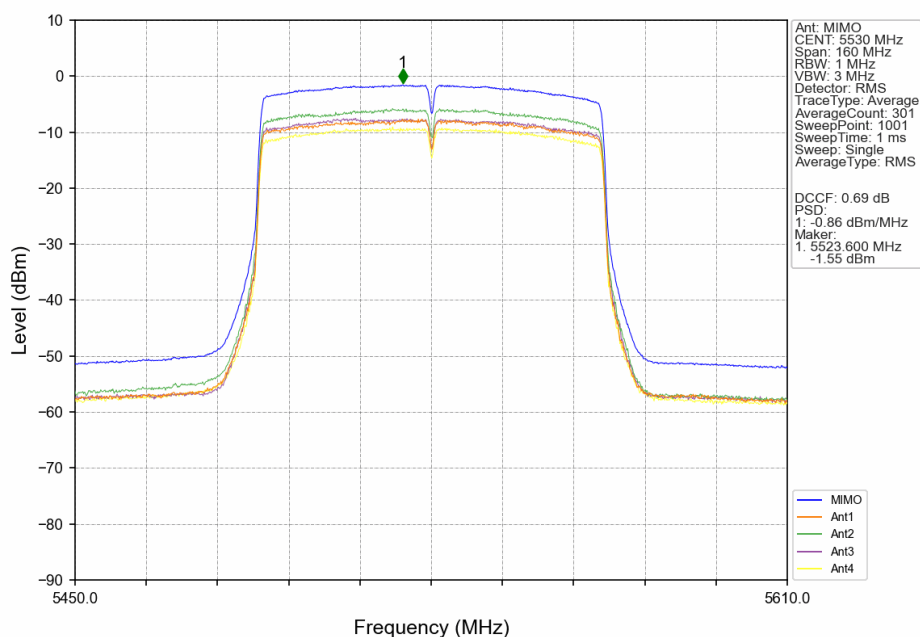
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### 802.11ac(VHT80)\_LCH\_5530MHz\_Ant4\_NTNV



### 802.11ac(VHT80)\_LCH\_5530MHz\_MIMO\_NTNV



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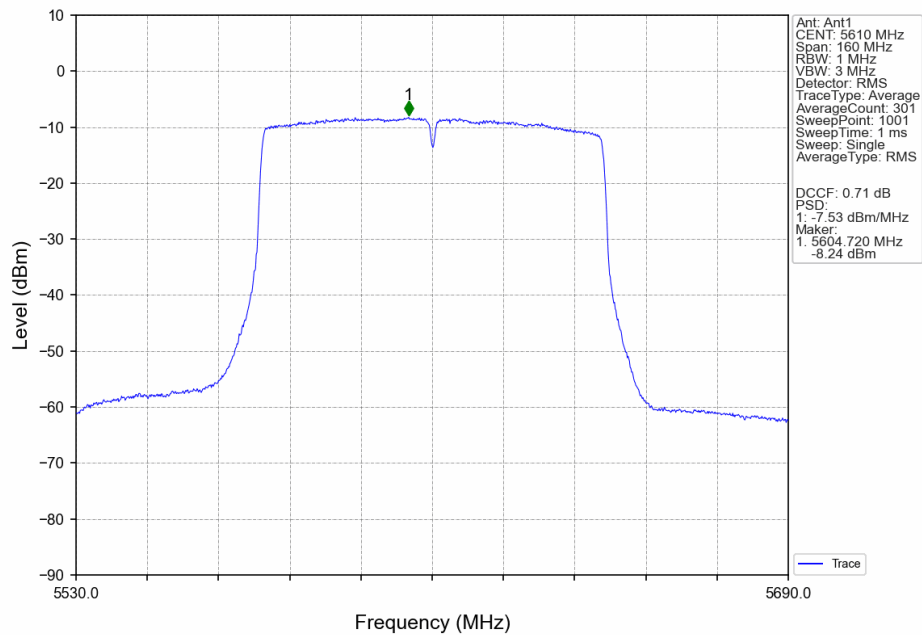
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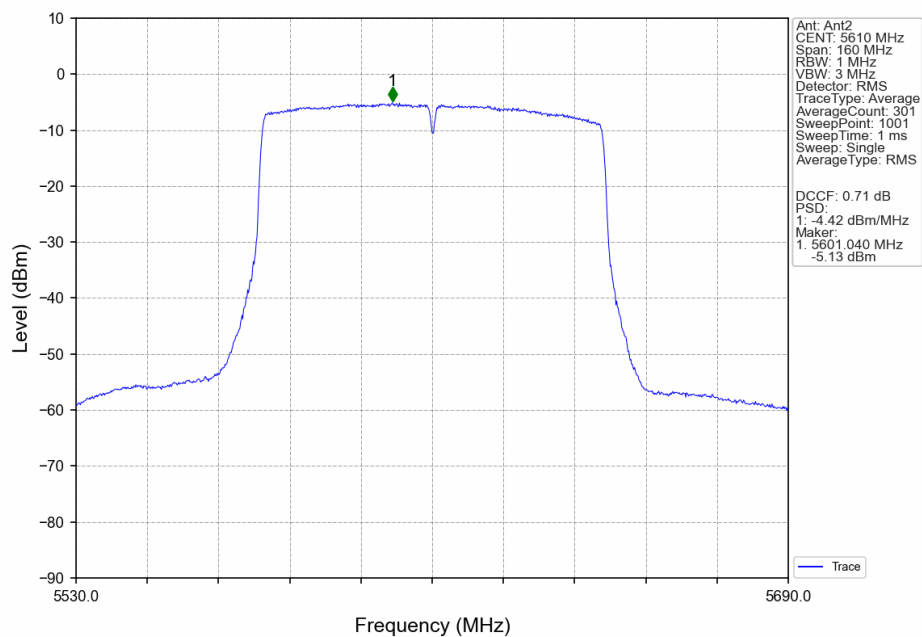
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### 802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



### 802.11ac(VHT80)\_HCH\_5610MHz\_Ant2\_NTNV

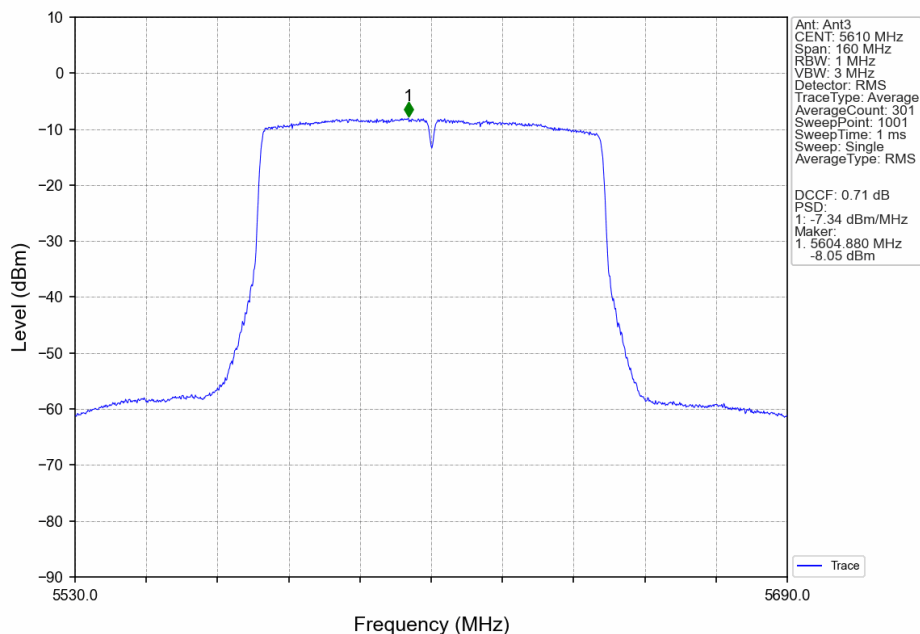


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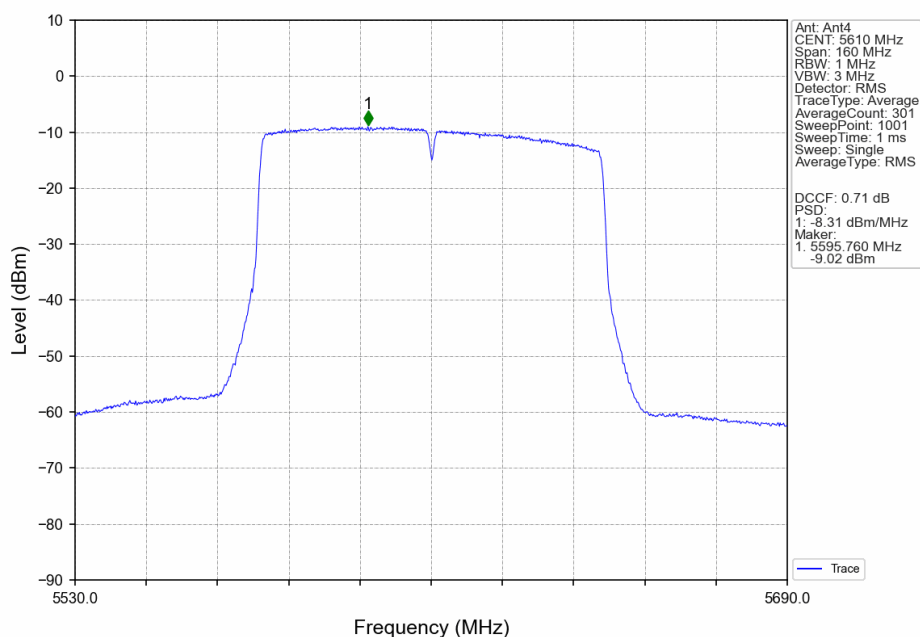
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### 802.11ac(VHT80)\_HCH\_5610MHz\_Ant3\_NTNV



### 802.11ac(VHT80)\_HCH\_5610MHz\_Ant4\_NTNV



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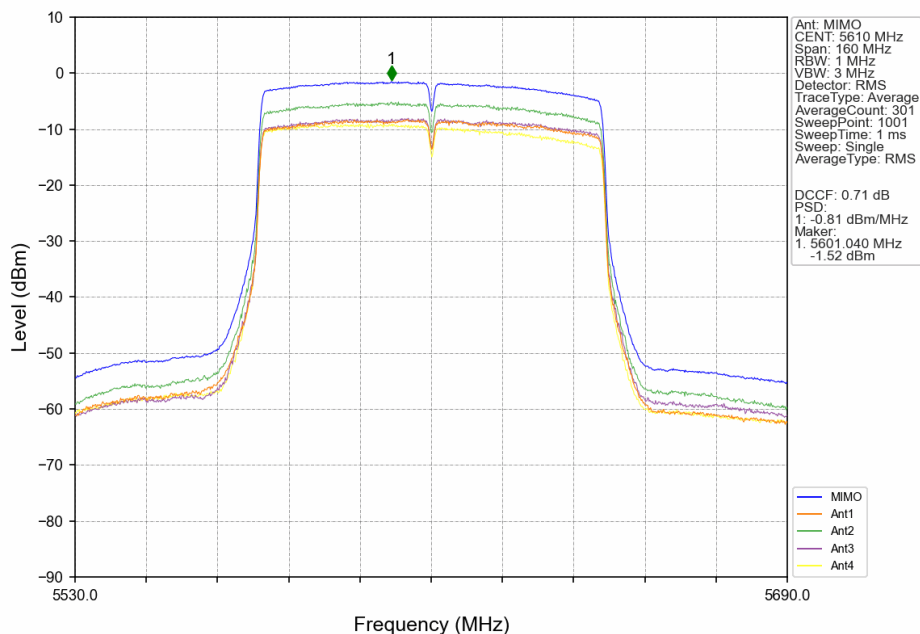
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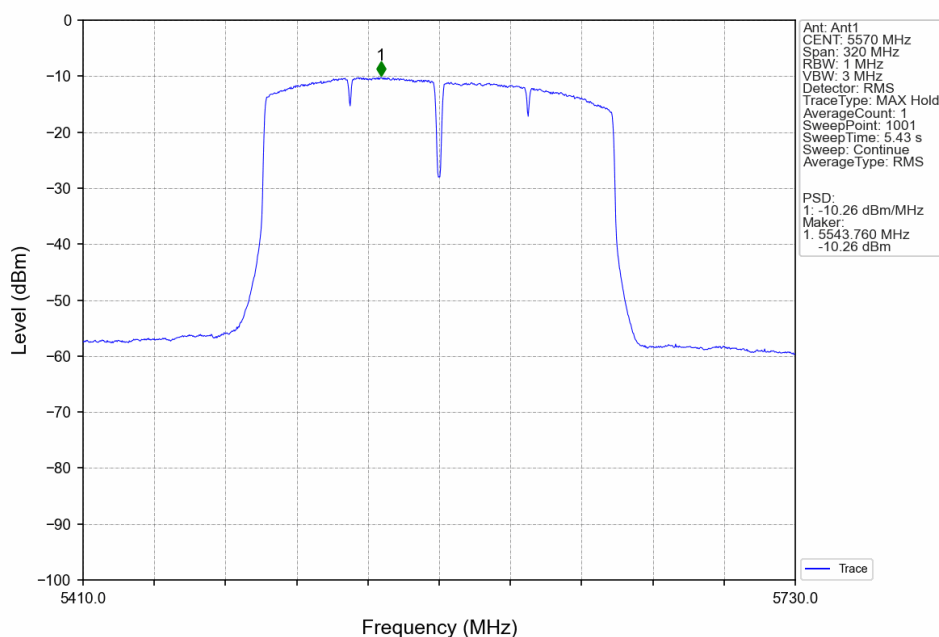
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### 802.11ac(VHT80)\_HCH\_5610MHz\_MIMO\_NTNV



### 802.11ac(VHT160)\_MCH\_5570MHz\_Ant1\_NTNV



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