

10 Appendix

1. Duty Cycle

1.1 Ant3

1.1.1 Test Result

Ant3							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.394	1.446	96.40	0.16	0.03
		5200	1.394	1.446	96.40	0.16	0.03
		5240	1.395	1.446	96.47	0.16	0.03
		5745	1.395	1.446	96.47	0.16	0.03
		5785	1.394	1.446	96.40	0.16	0.03
		5825	1.394	1.446	96.40	0.16	0.03
802.11n (HT20)	MIMO	5180	1.302	1.354	96.16	0.17	0.03
		5200	1.303	1.354	96.23	0.17	0.03
		5240	1.302	1.354	96.16	0.17	0.03
		5745	1.303	1.354	96.23	0.17	0.03
		5785	1.302	1.354	96.16	0.17	0.03
		5825	1.303	1.354	96.23	0.17	0.03
802.11n (HT40)	MIMO	5190	0.650	0.701	92.72	0.33	0.04
		5230	0.650	0.701	92.72	0.33	0.03
		5755	0.650	0.702	92.59	0.33	0.03
		5795	0.649	0.701	92.58	0.33	0.03
802.11ac (VHT20)	MIMO	5180	1.314	1.366	96.19	0.17	0.03
		5200	1.314	1.366	96.19	0.17	0.03
		5240	1.314	1.366	96.19	0.17	0.03
		5745	1.315	1.366	96.27	0.17	0.03
		5785	1.315	1.366	96.27	0.17	0.03
		5825	1.315	1.366	96.27	0.17	0.03
802.11ac (VHT40)	MIMO	5190	0.654	0.705	92.77	0.33	0.03
		5230	0.654	0.705	92.77	0.33	0.03
		5755	0.654	0.705	92.77	0.33	0.00
		5795	0.654	0.705	92.77	0.33	0.03
802.11ac	MIMO	5210	0.325	0.377	86.21	0.64	0.07



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(VHT80)		5775	0.325	0.377	86.21	0.64	0.04
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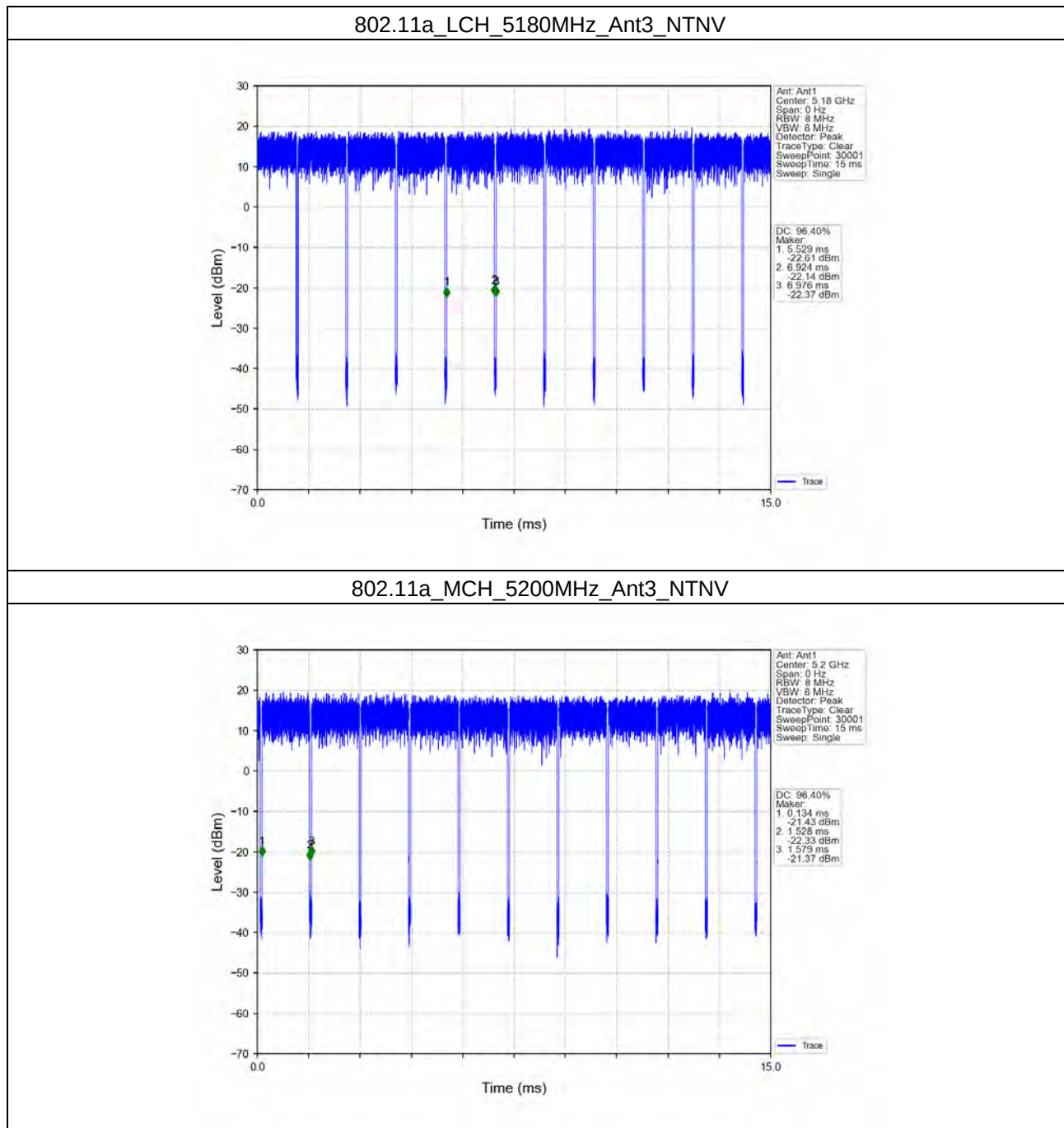
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1.1.2 Test Graph



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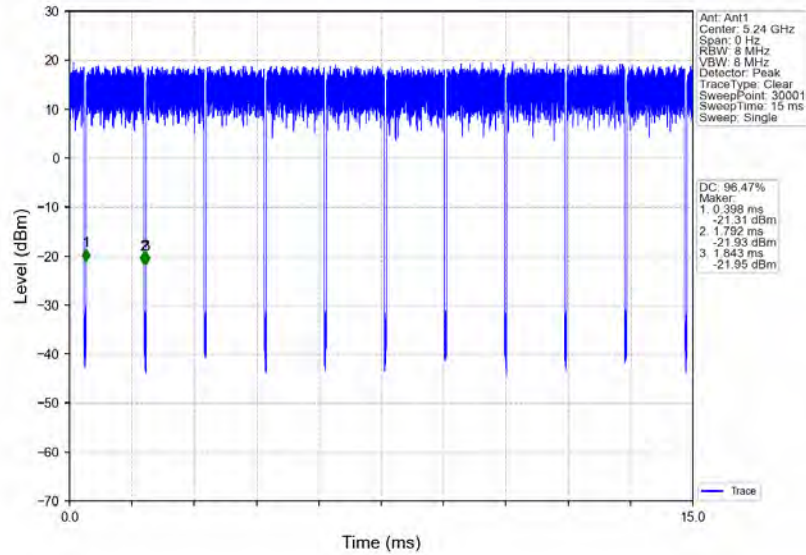
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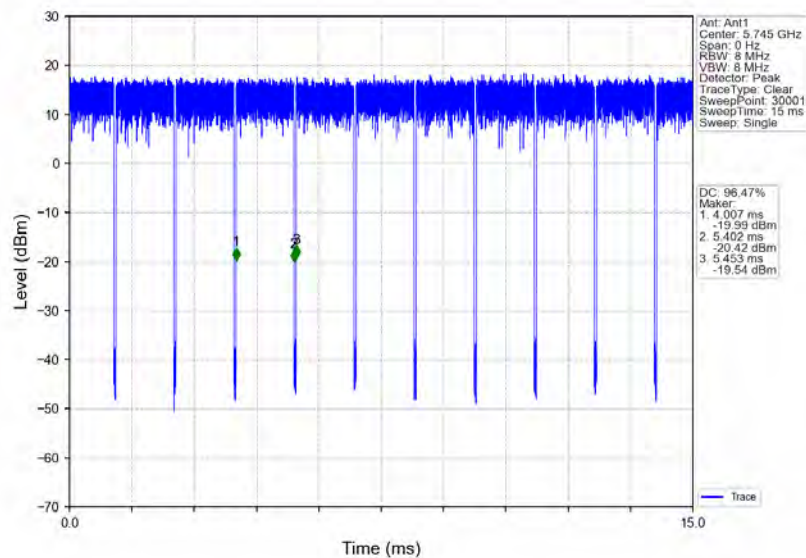
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802.11a_LCH_5745MHz_Ant3_NTNV



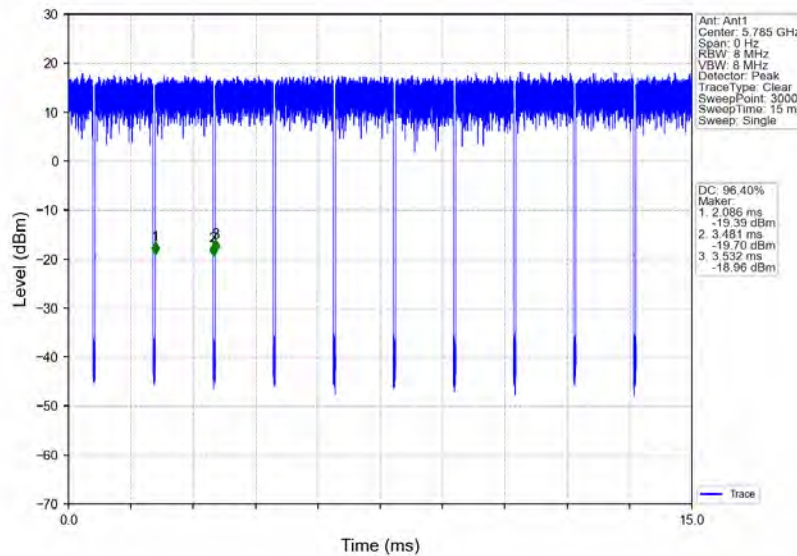
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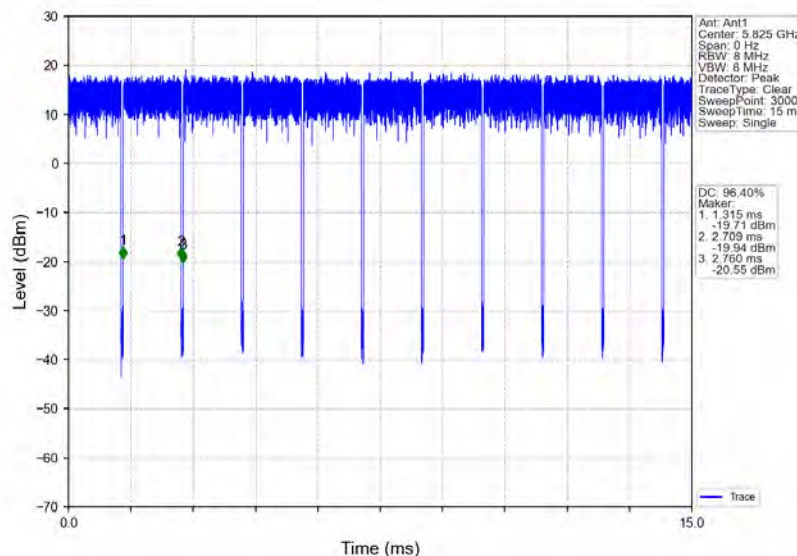
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802.11a_HCH_5825MHz_Ant3_NTNV



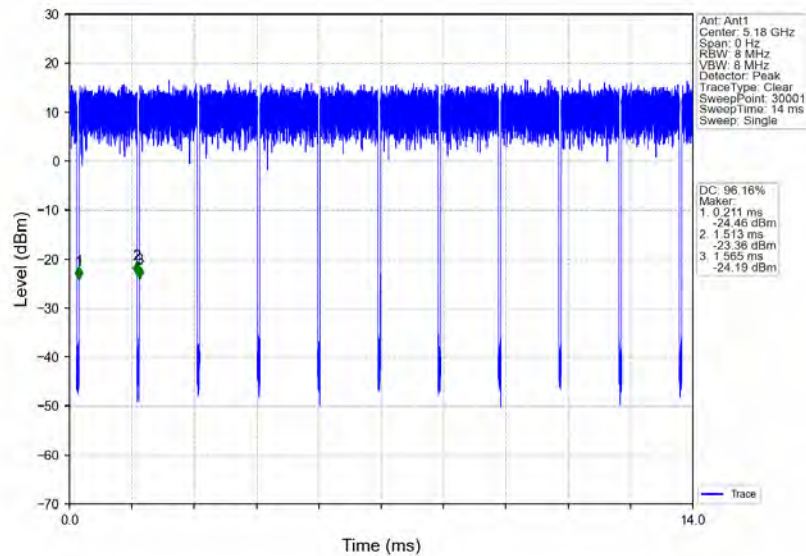
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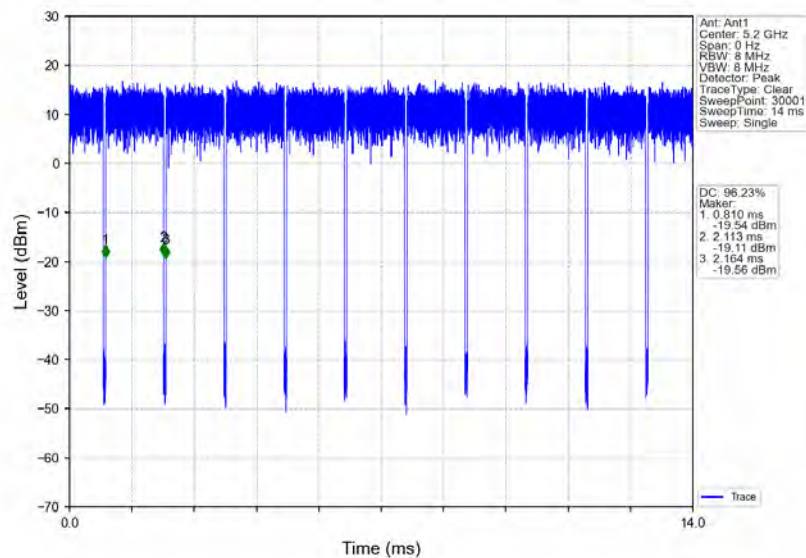
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802.11n(HT20)_MCH_5200MHz_Ant3_NTNV



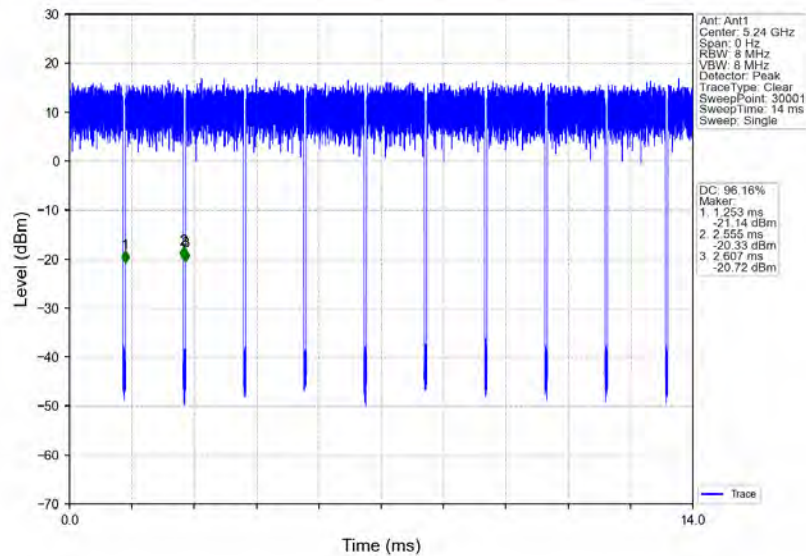
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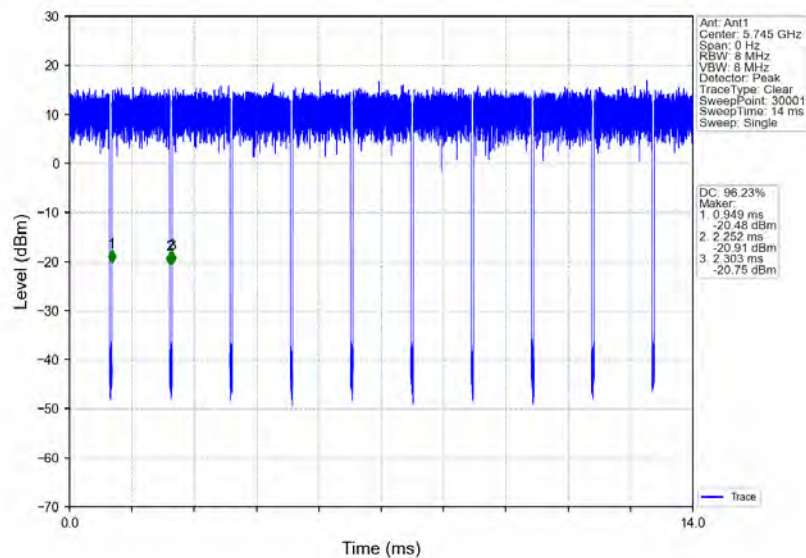
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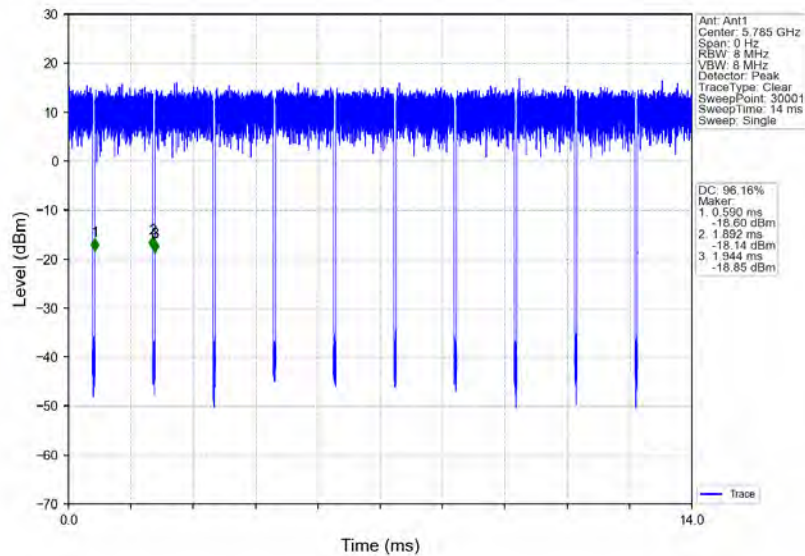
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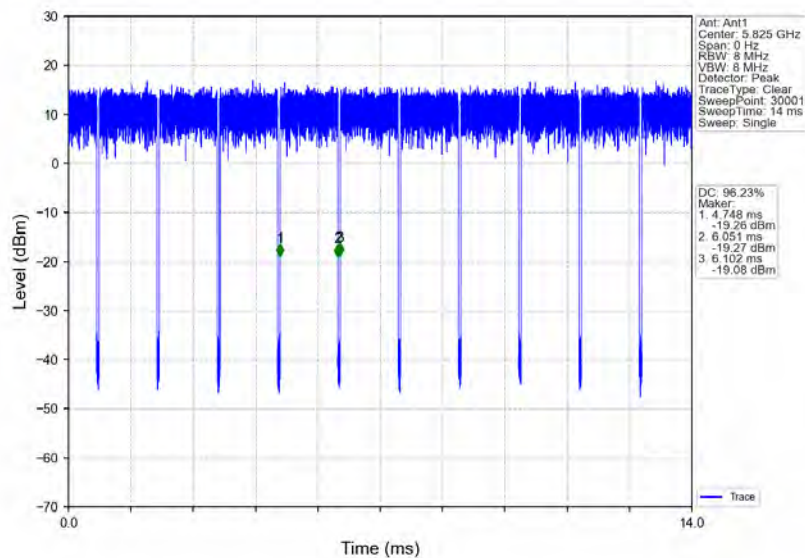
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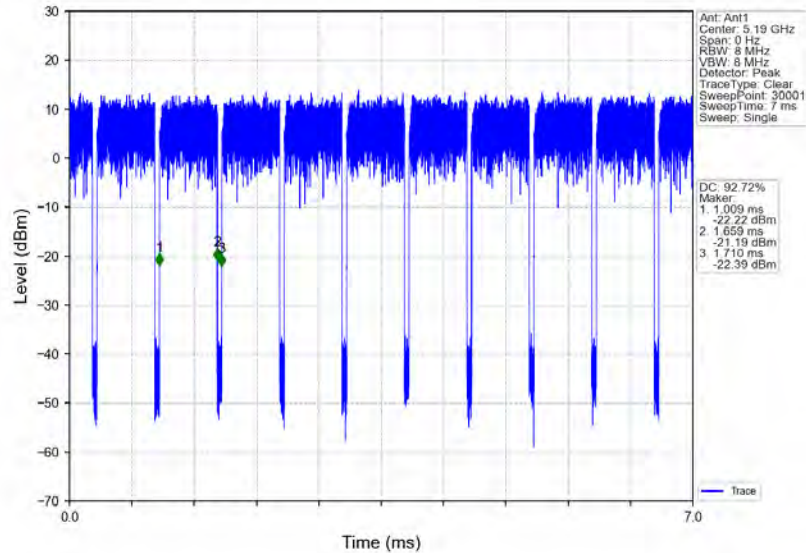
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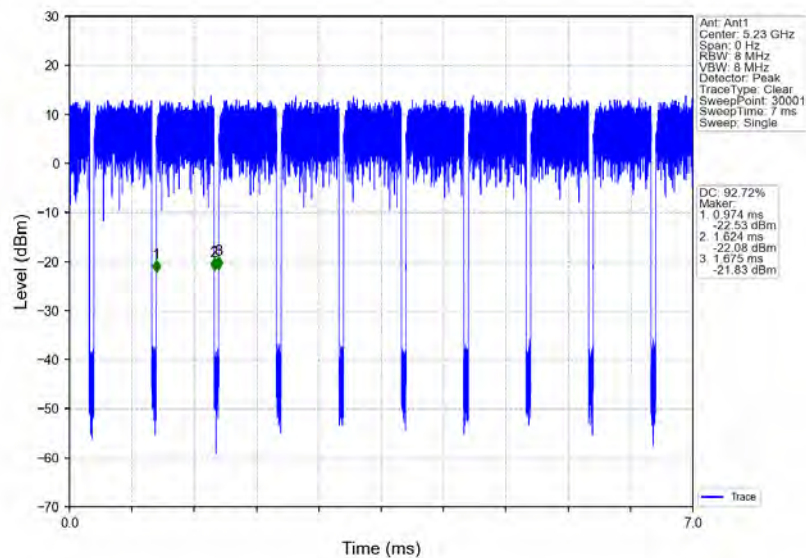
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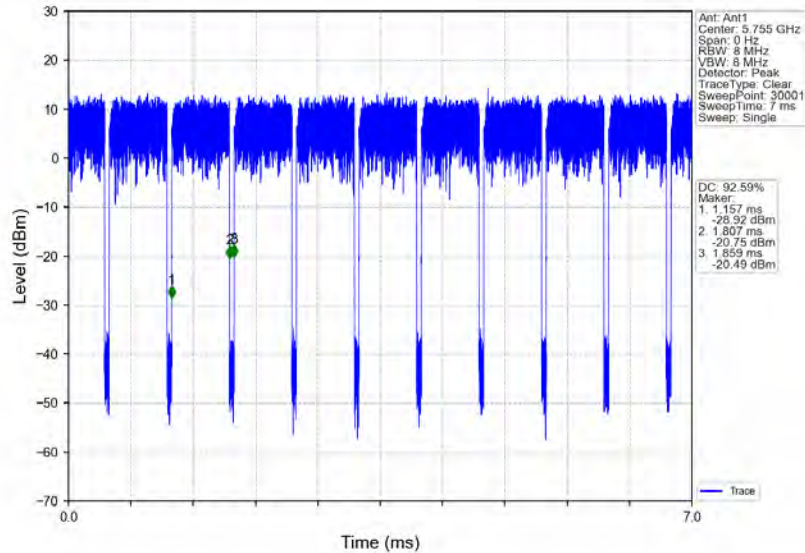
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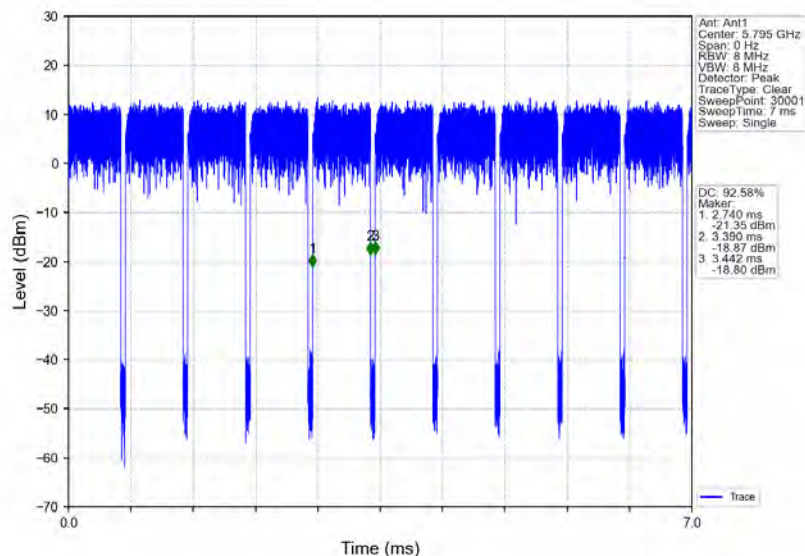
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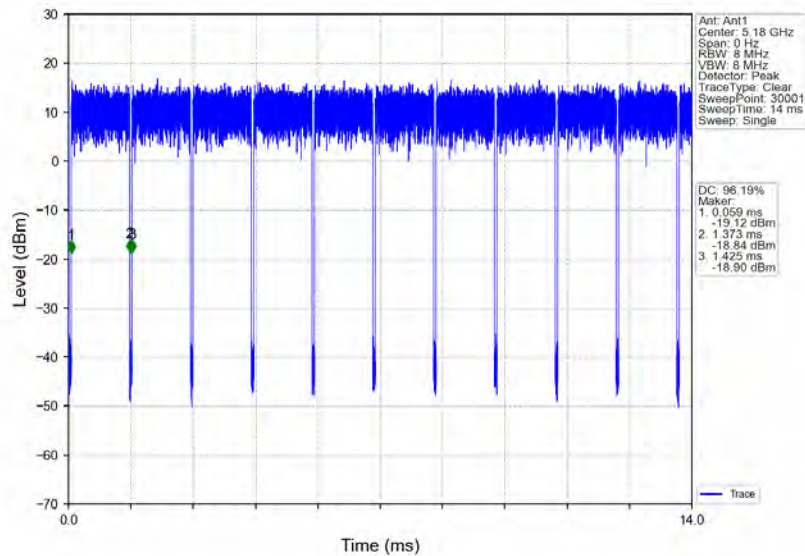
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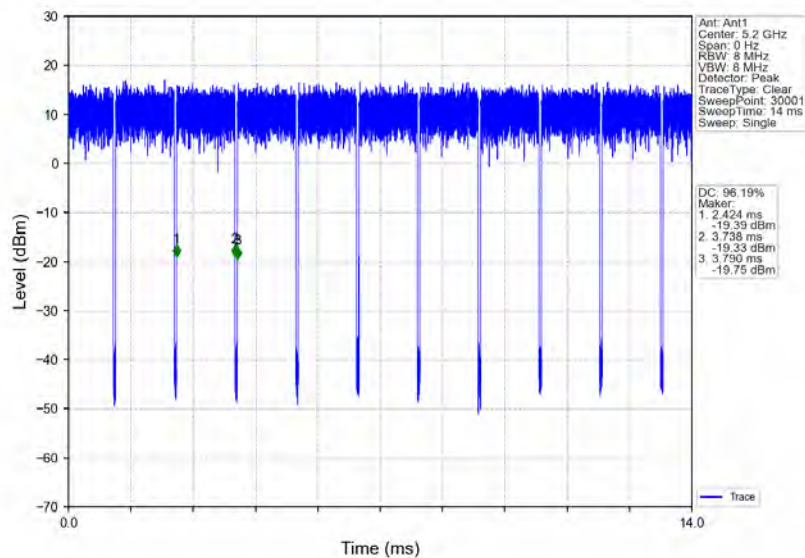
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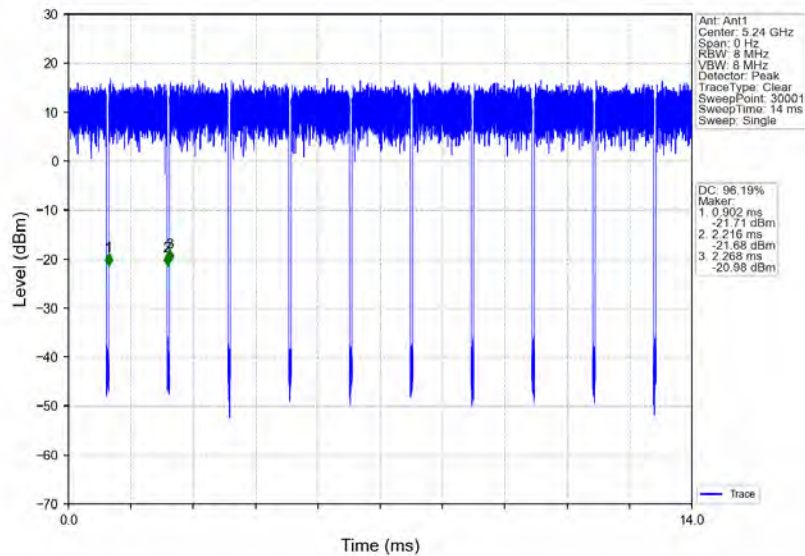
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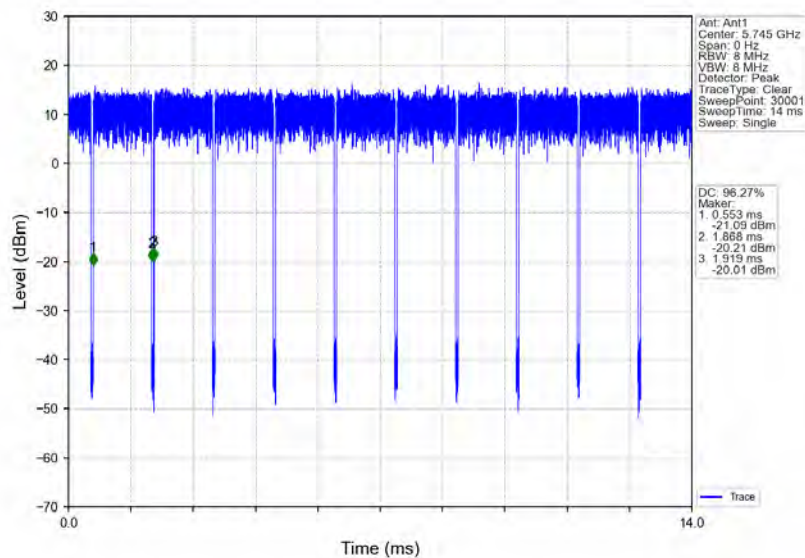
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802.11ac(VHT20)_HCH_5240MHz_Ant3_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant3_NTNV



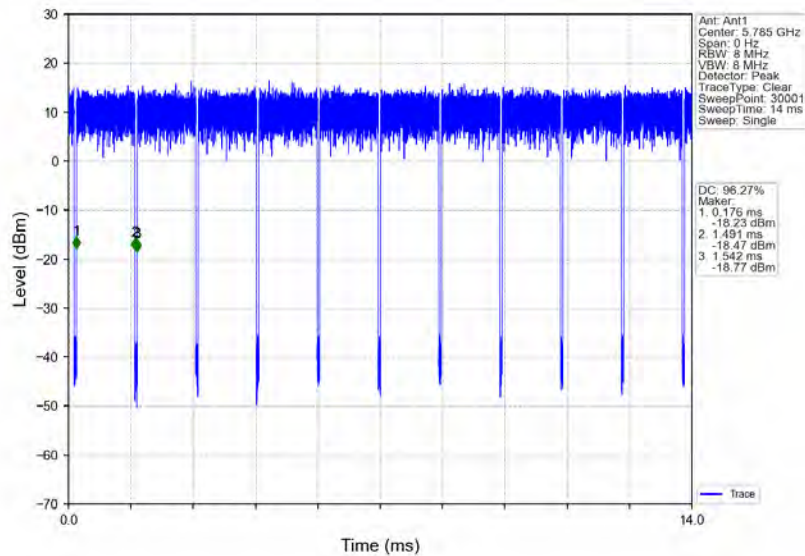
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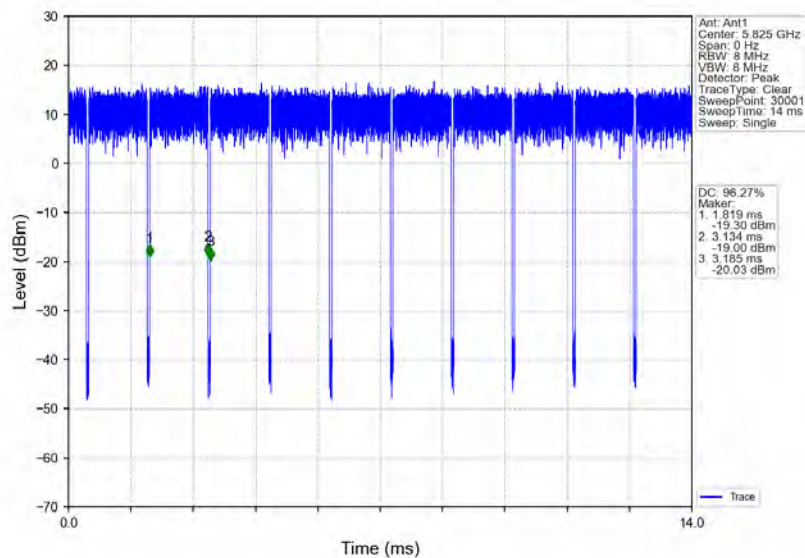
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802.11ac(VHT20)_MCH_5785MHz_Ant3_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant3_NTNV



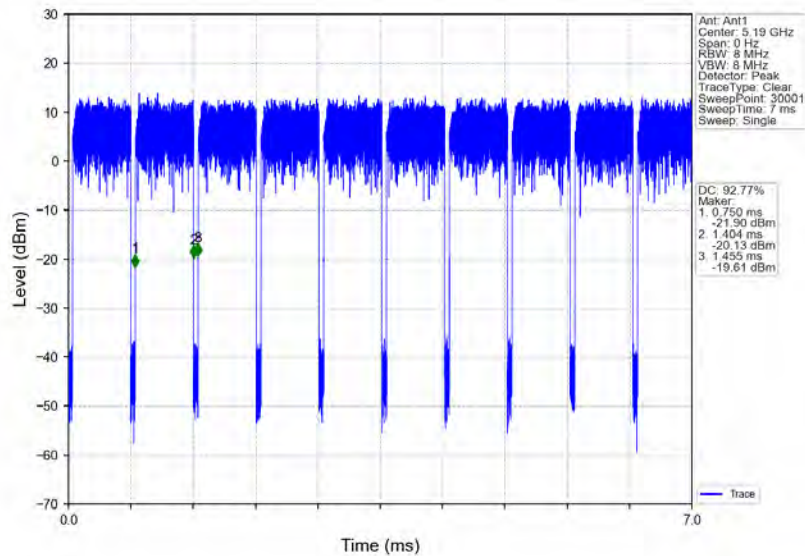
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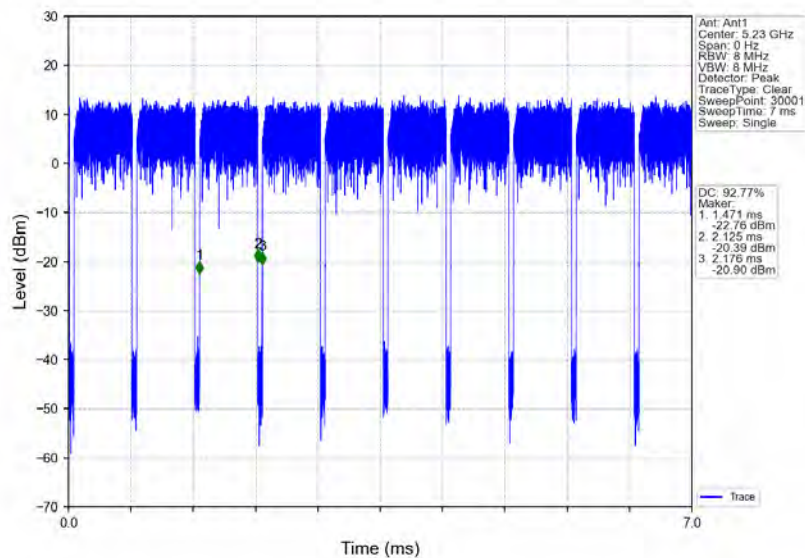
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802.11ac(VHT40)_LCH_5190MHz_Ant3_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant3_NTNV



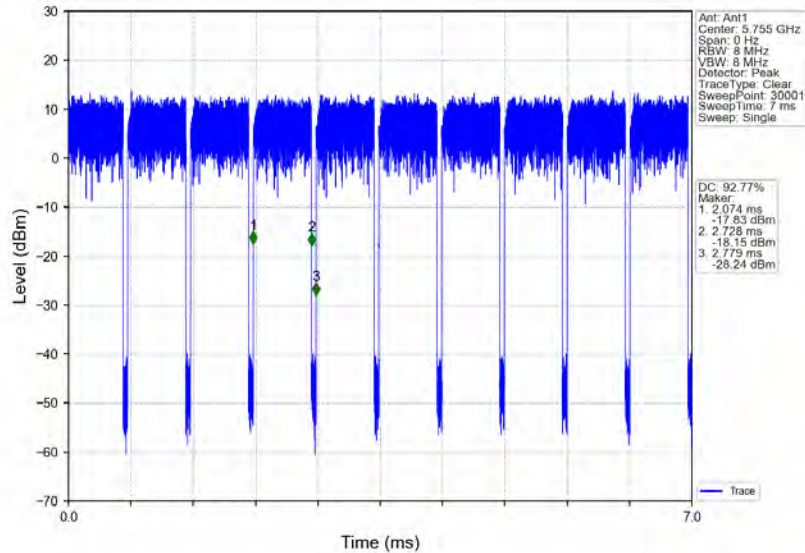
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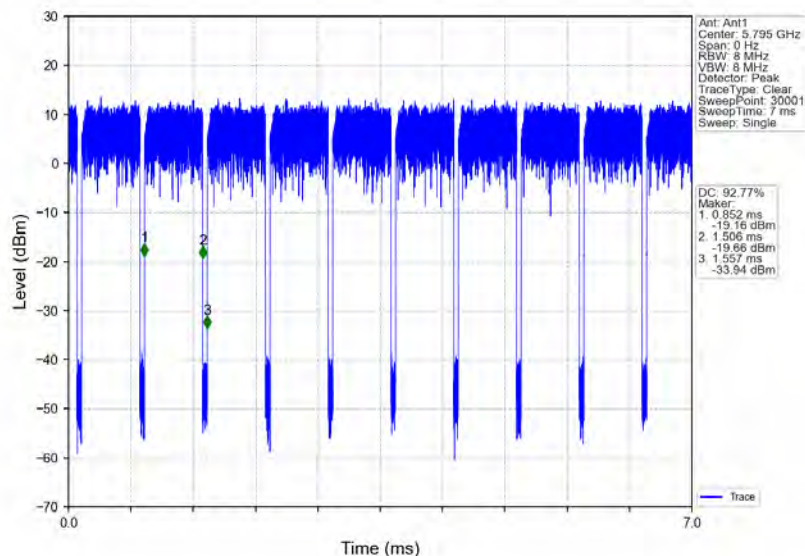
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802.11ac(VHT40)_LCH_5755MHz_Ant3_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant3_NTNV



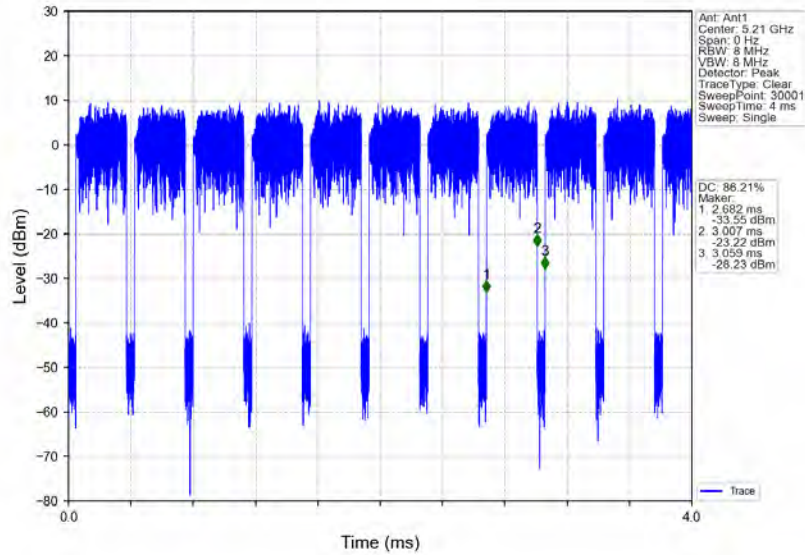
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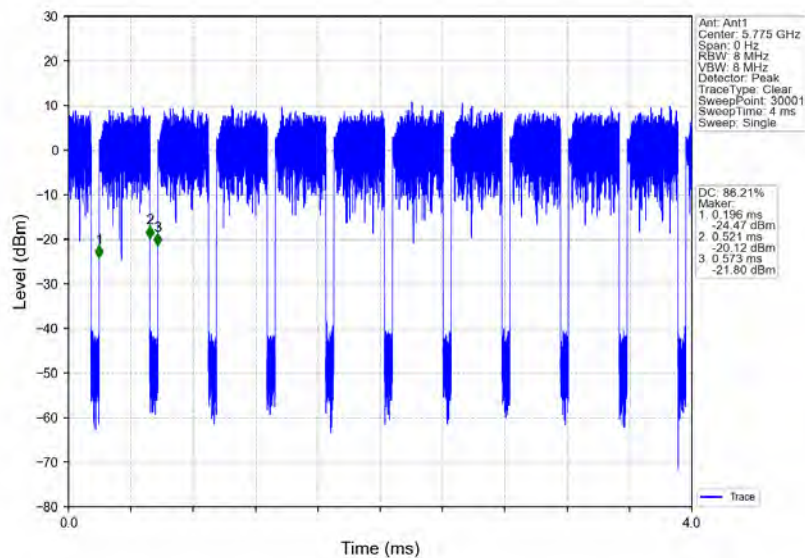
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802.11ac(VHT80)_MCH_5210MHz_Ant3_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant3_NTNV



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220800157006

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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	17.338	Pass
			2	17.208	Pass
		5200	1	17.345	Pass
			2	17.880	Pass
		5240	1	17.302	Pass
			2	17.941	Pass
		5745	1	19.156	Pass
			2	19.744	Pass
		5785	1	18.444	Pass
			2	18.858	Pass
		5825	1	17.974	Pass
			2	18.346	Pass
802.11n (HT20)	MIMO	5180	1	17.774	Pass
			2	18.104	Pass
		5200	1	17.763	Pass
			2	18.386	Pass
		5240	1	17.773	Pass
			2	18.458	Pass
		5745	1	18.272	Pass
			2	18.823	Pass
		5785	1	18.103	Pass
			2	18.568	Pass
		5825	1	17.973	Pass
			2	18.495	Pass
802.11n (HT40)	MIMO	5190	1	36.546	Pass
			2	36.224	Pass
		5230	1	36.471	Pass
			2	36.417	Pass
		5755	1	37.009	Pass
			2	36.922	Pass
		5795	1	36.845	Pass
			2	36.845	Pass



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220800157006

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			2	36.879	Pass
802.11ac (VHT20)	MIMO	5180	1	17.740	Pass
			2	18.107	Pass
		5200	1	17.766	Pass
			2	18.371	Pass
		5240	1	17.756	Pass
			2	18.428	Pass
		5745	1	18.200	Pass
			2	18.868	Pass
		5785	1	18.099	Pass
			2	18.613	Pass
		5825	1	17.975	Pass
			2	18.457	Pass
802.11ac (VHT40)	MIMO	5190	1	36.566	Pass
			2	36.284	Pass
		5230	1	36.431	Pass
			2	36.390	Pass
		5755	1	37.127	Pass
			2	37.032	Pass
		5795	1	36.889	Pass
			2	36.920	Pass
802.11ac (VHT80)	MIMO	5210	1	75.367	Pass
			2	75.958	Pass
		5775	1	75.930	Pass
			2	75.904	Pass



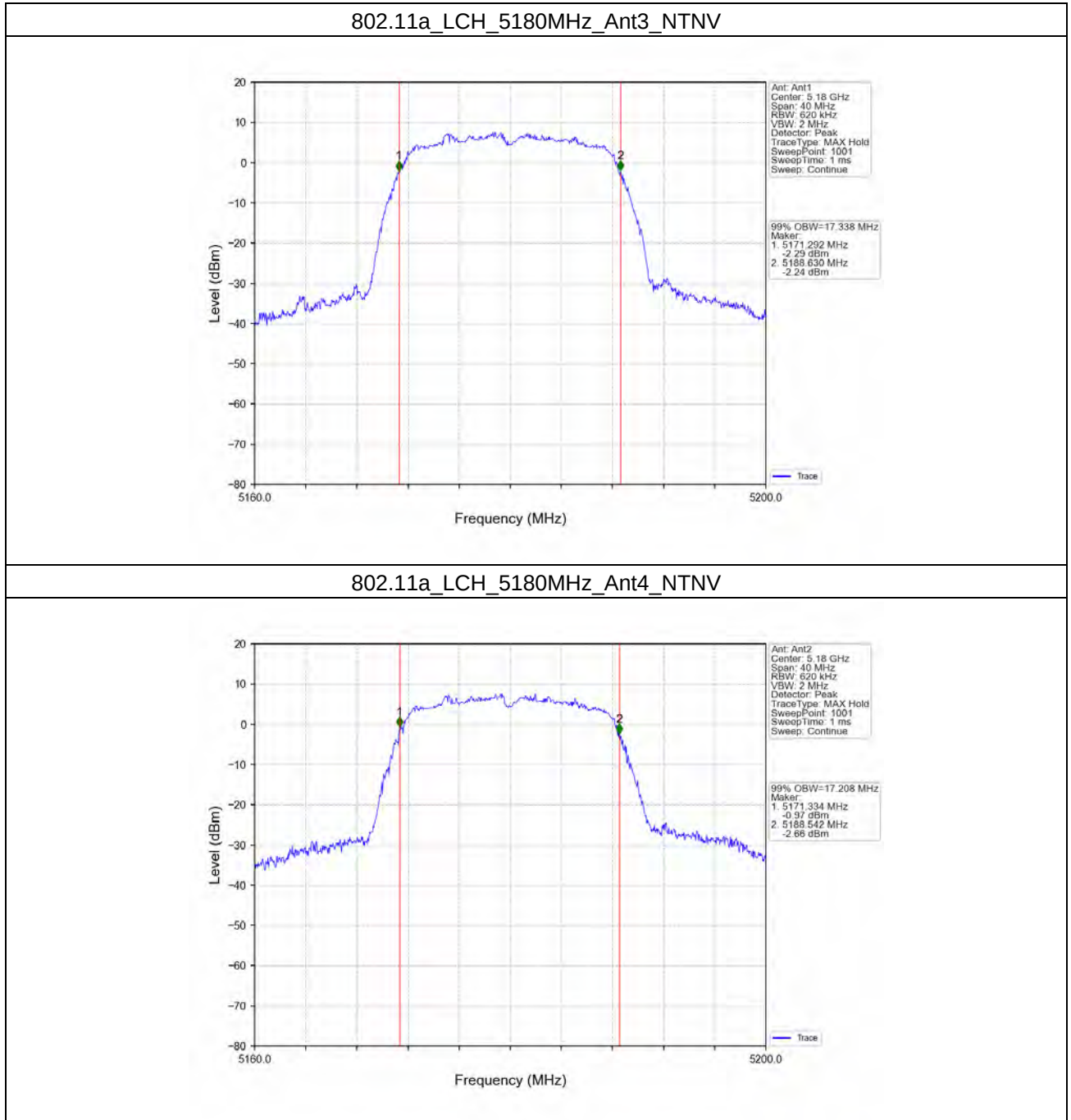
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2.1.2 Test Graph



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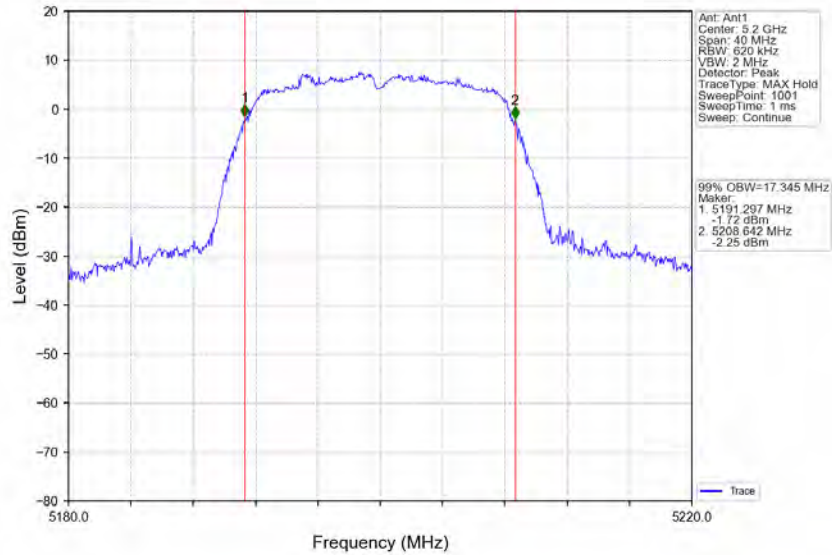
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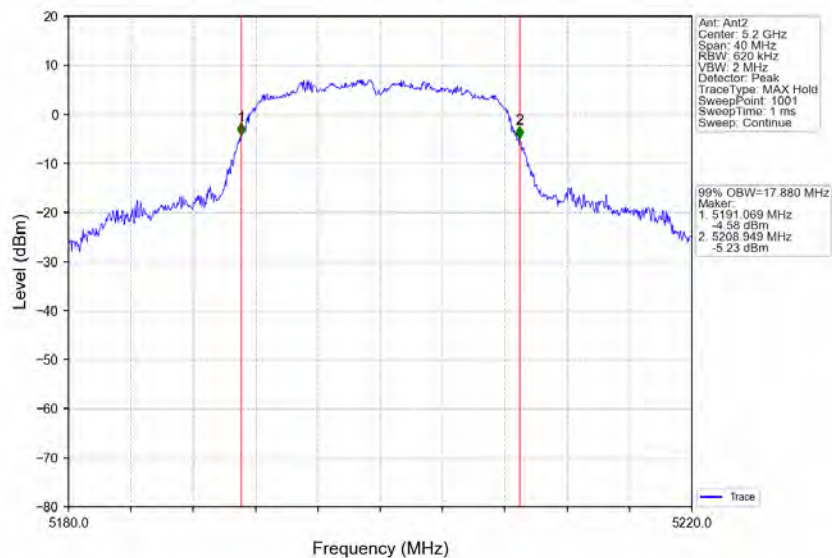
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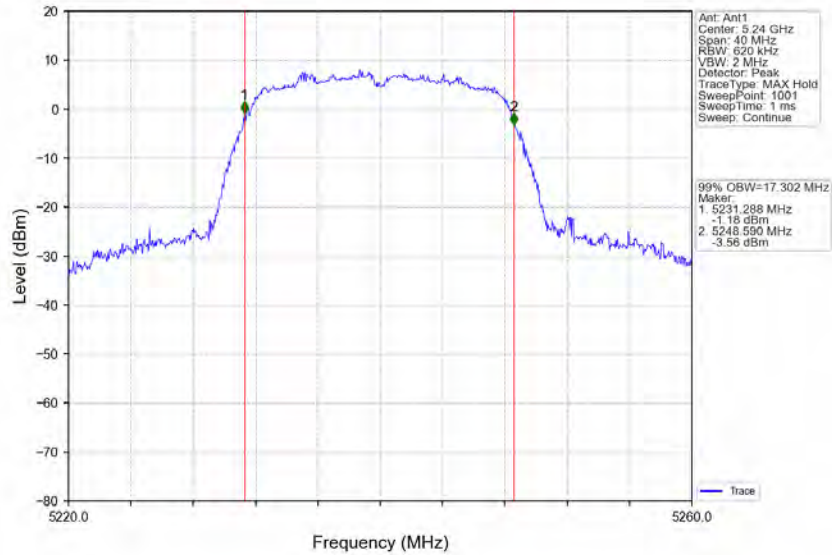
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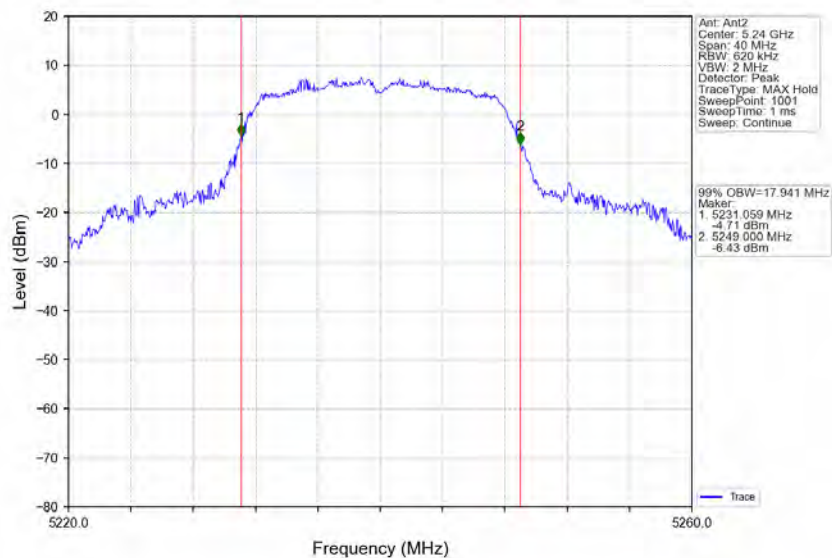
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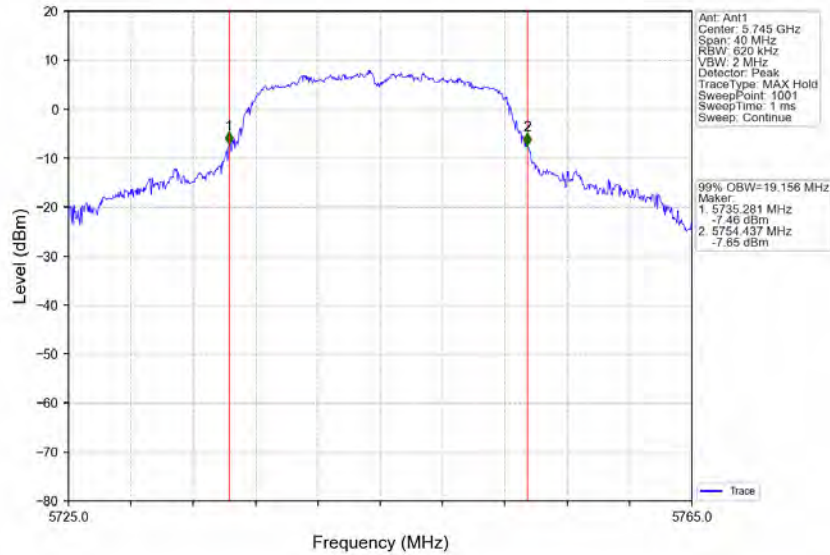
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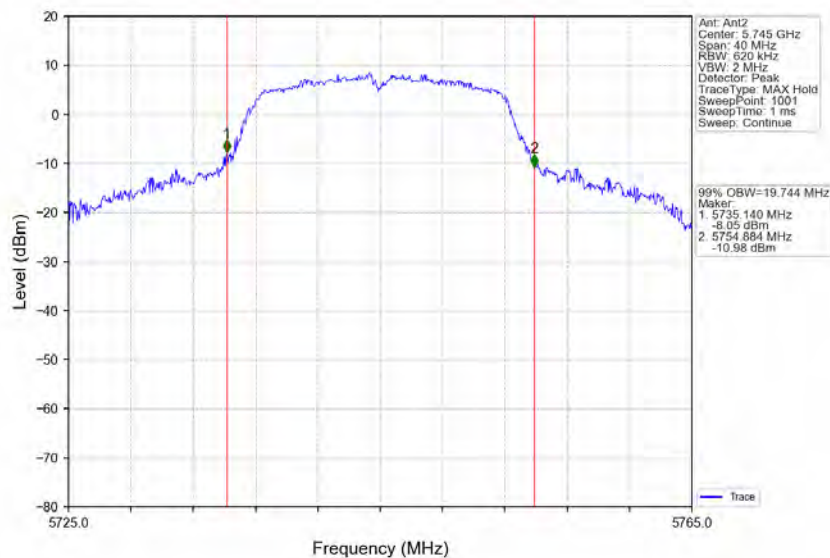
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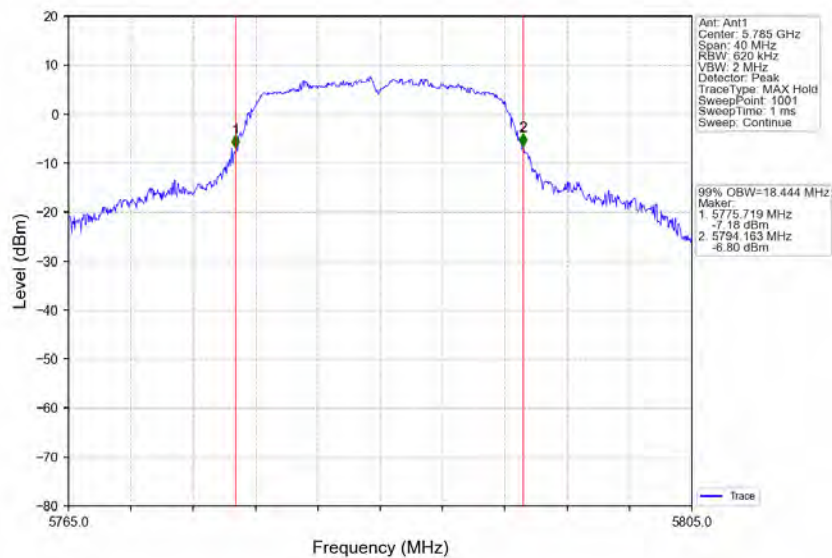
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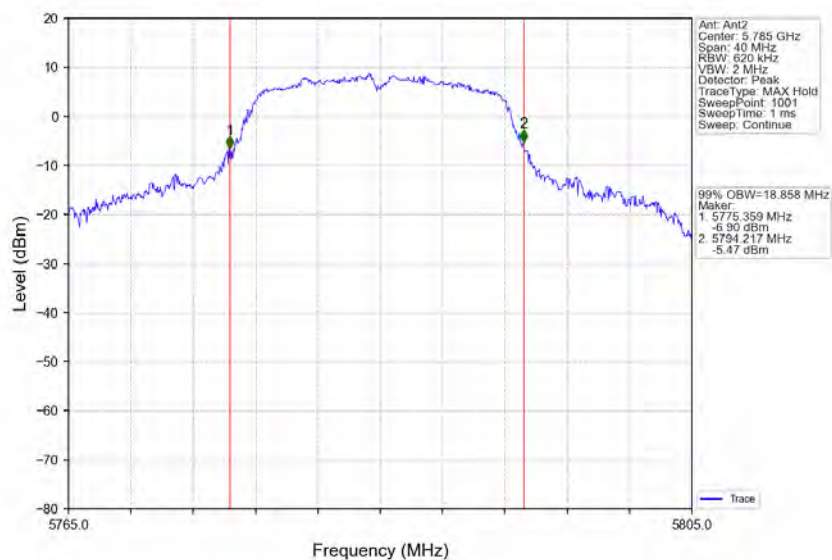
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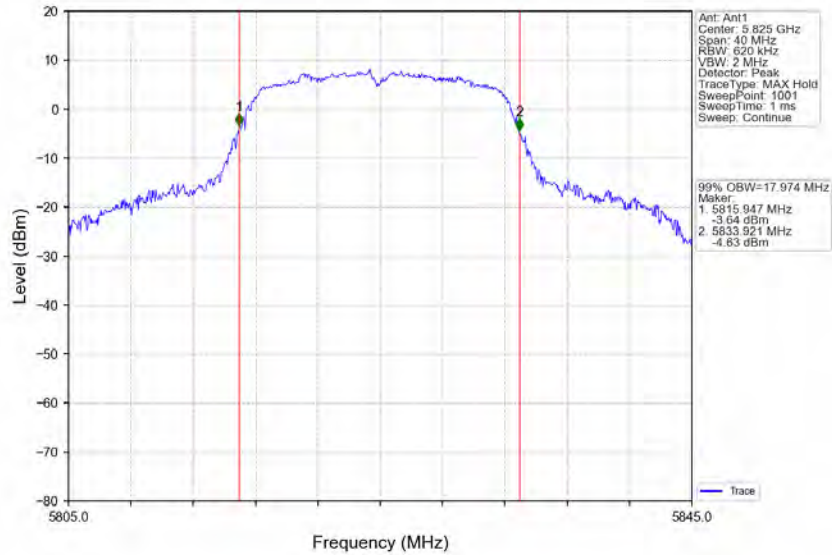
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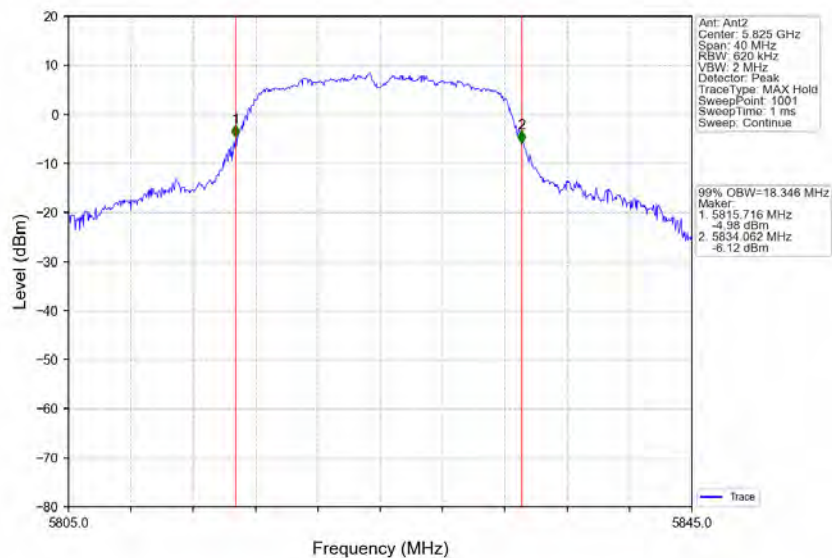
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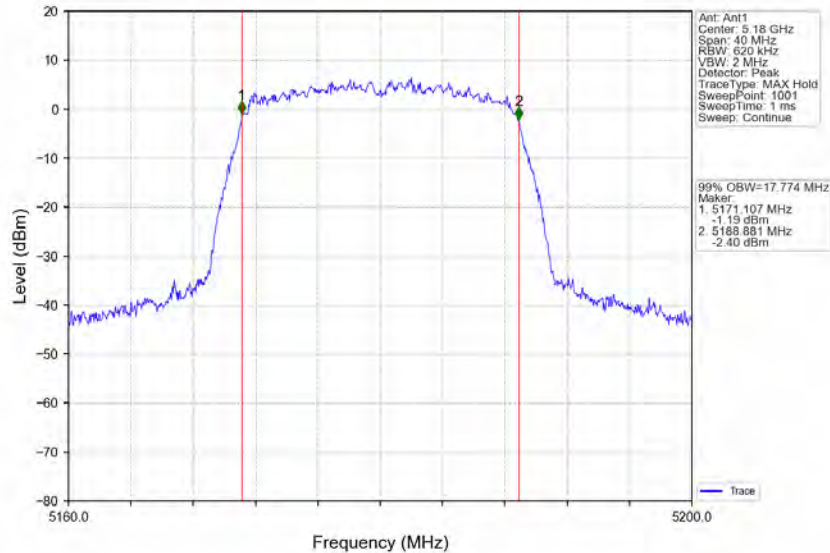
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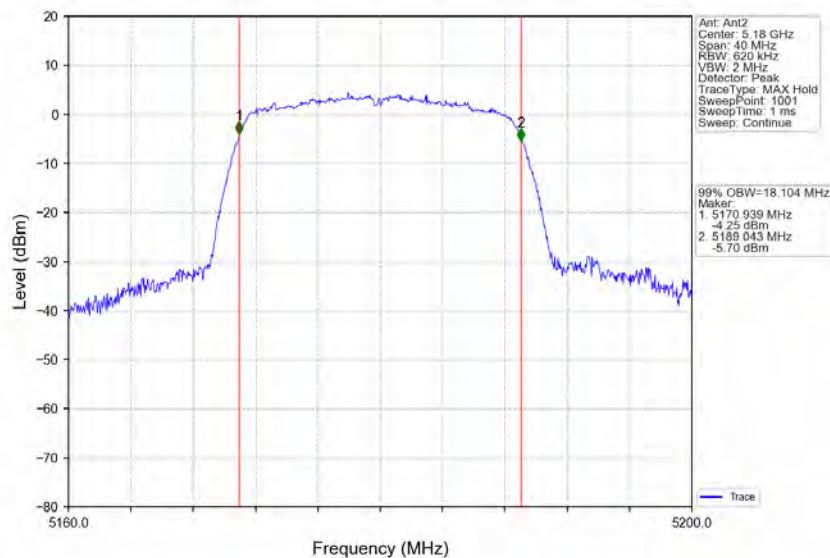
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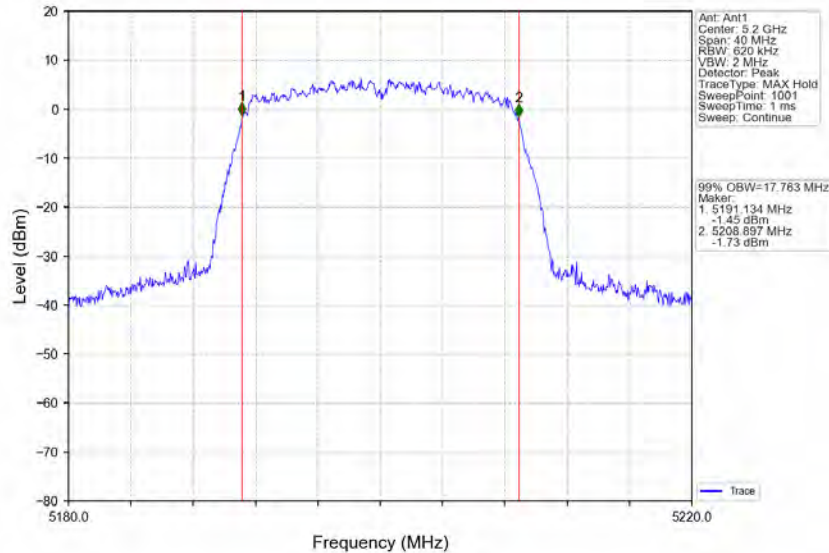
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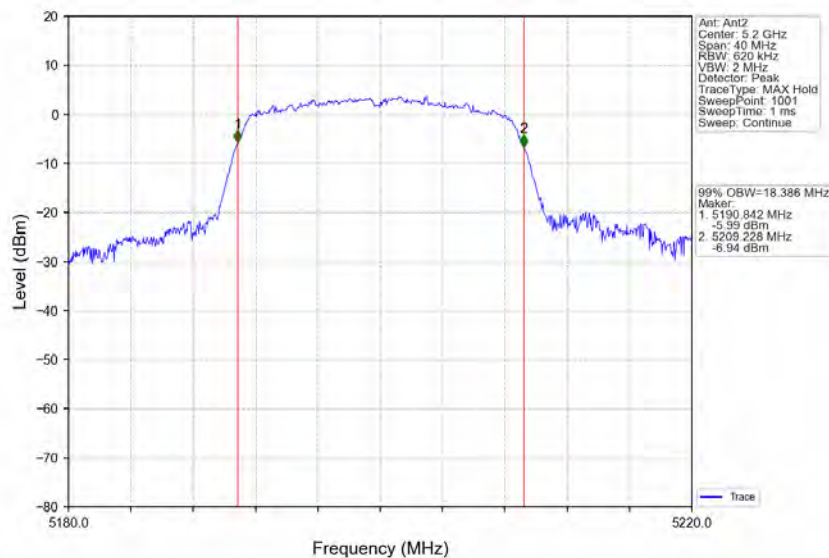
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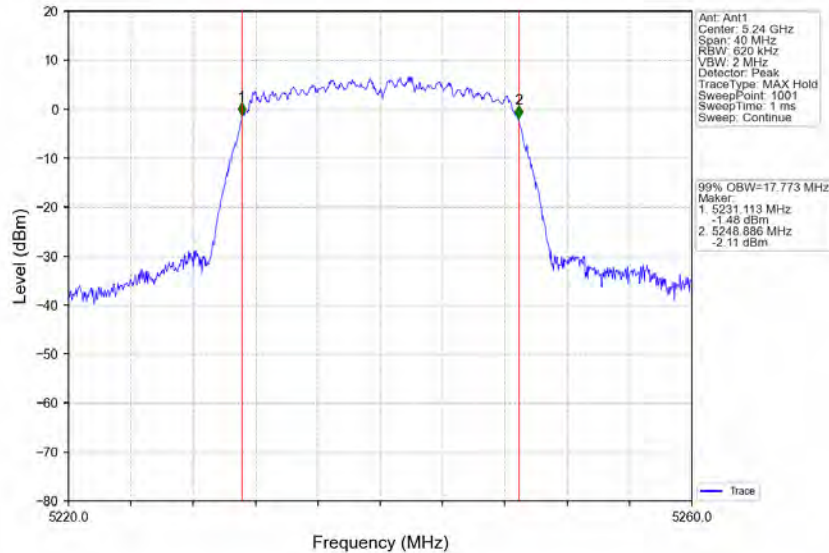
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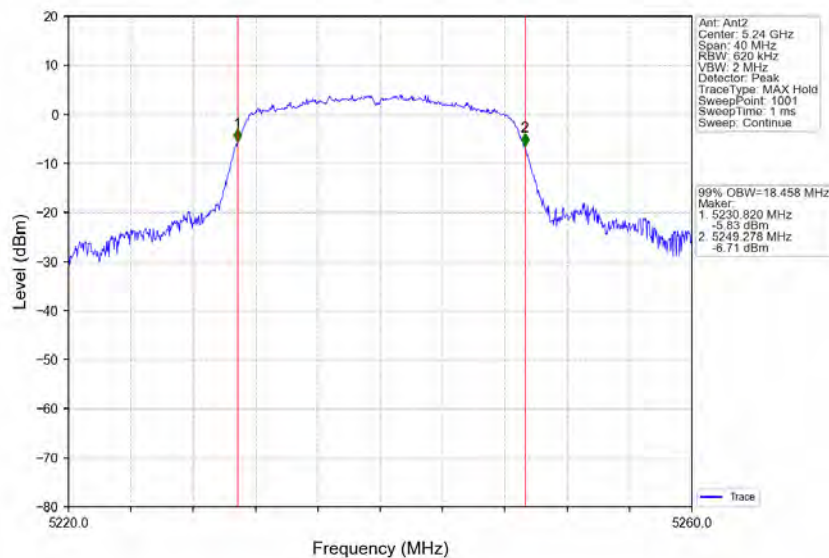
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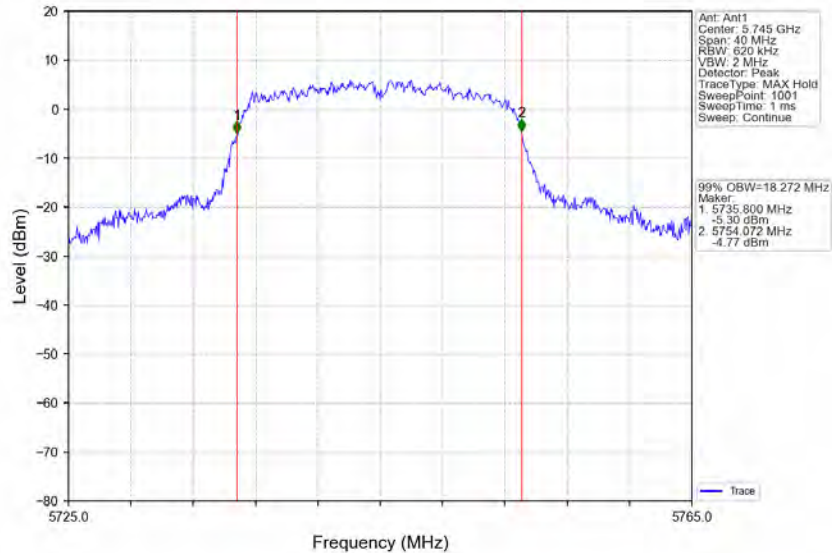
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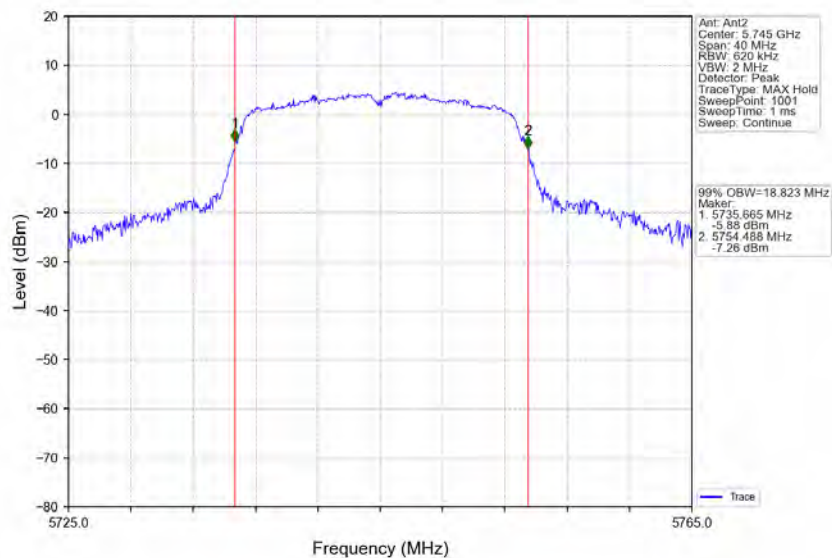
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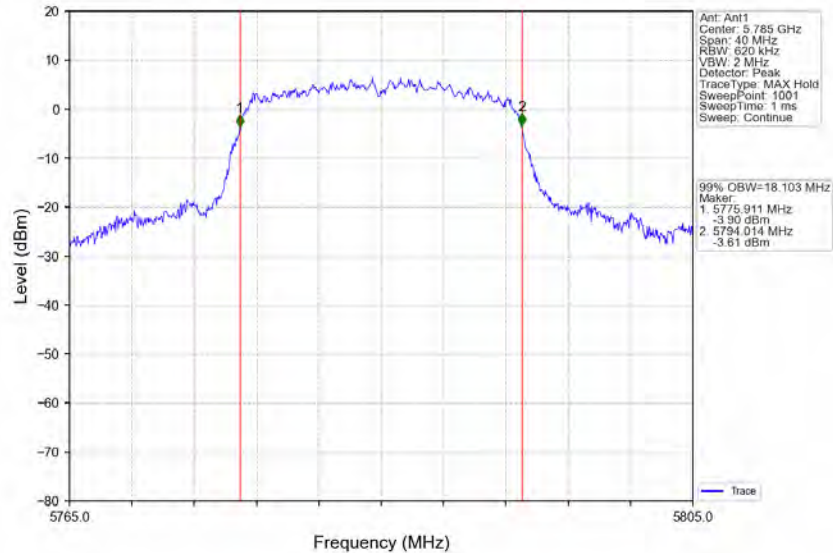
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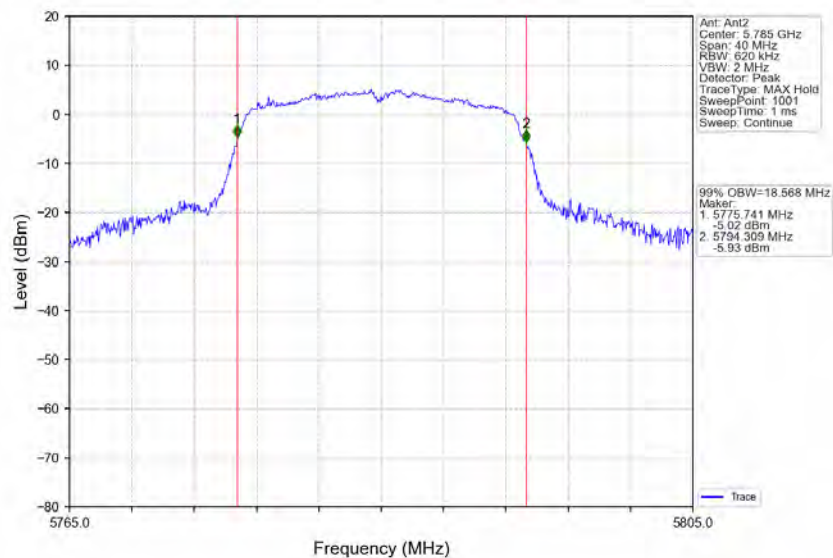
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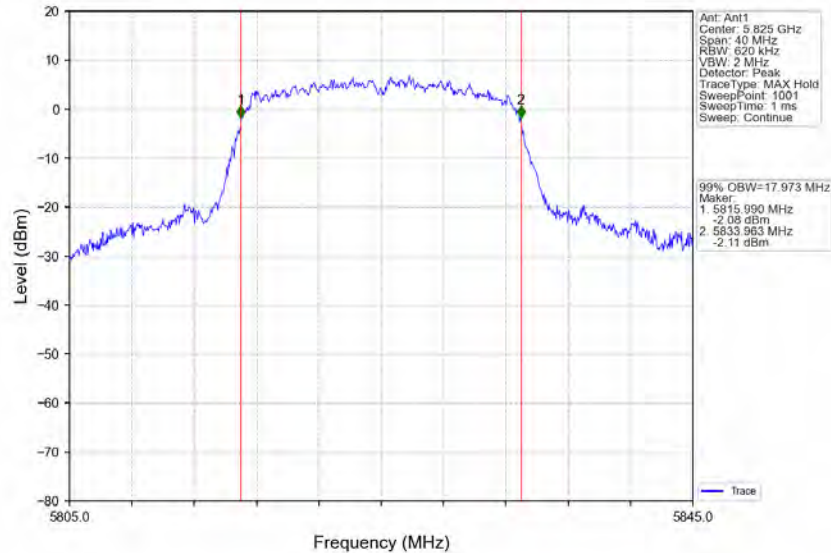
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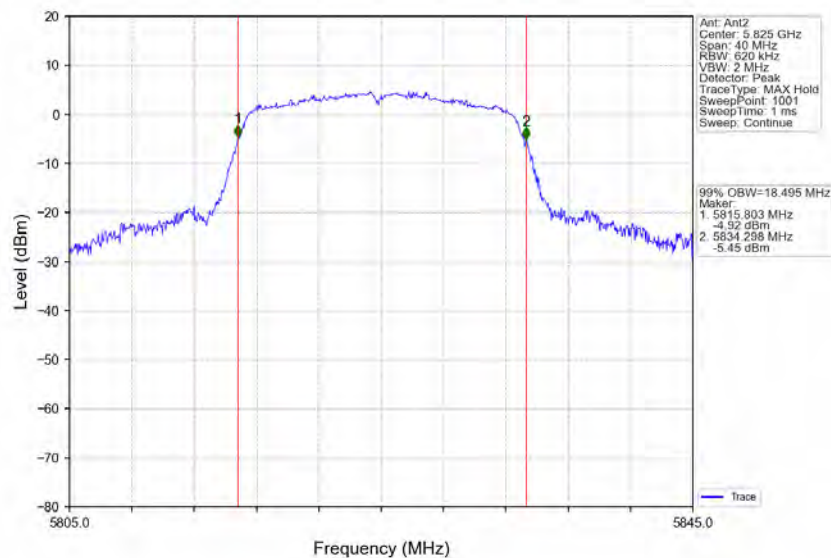
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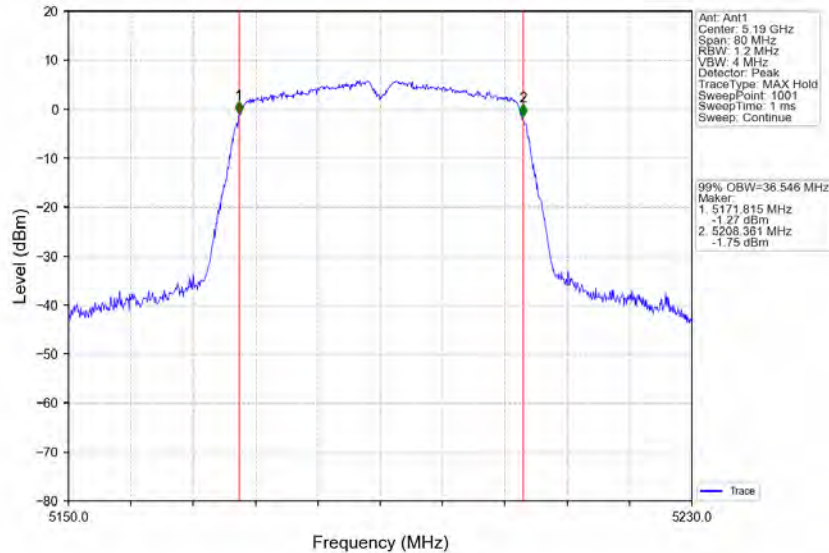
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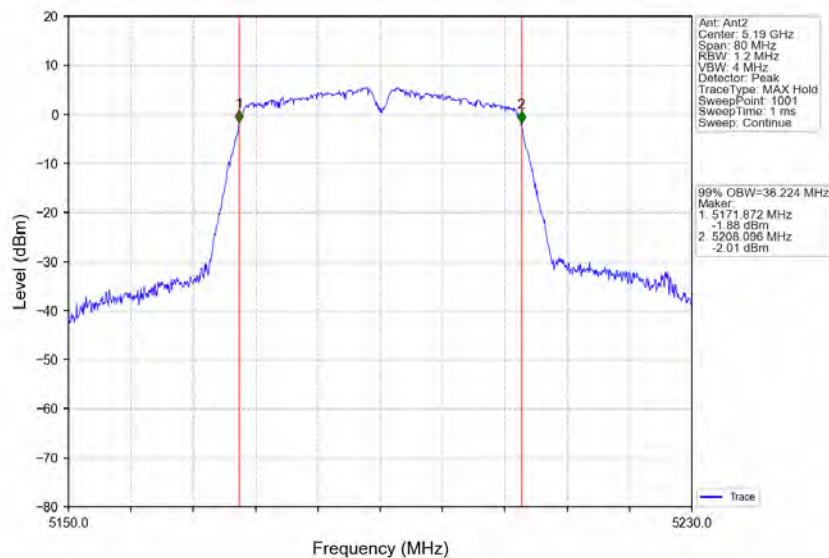
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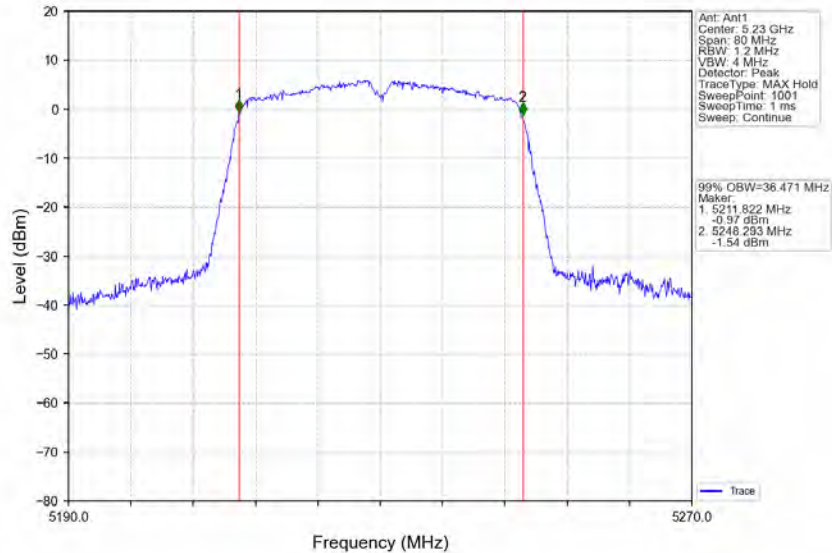
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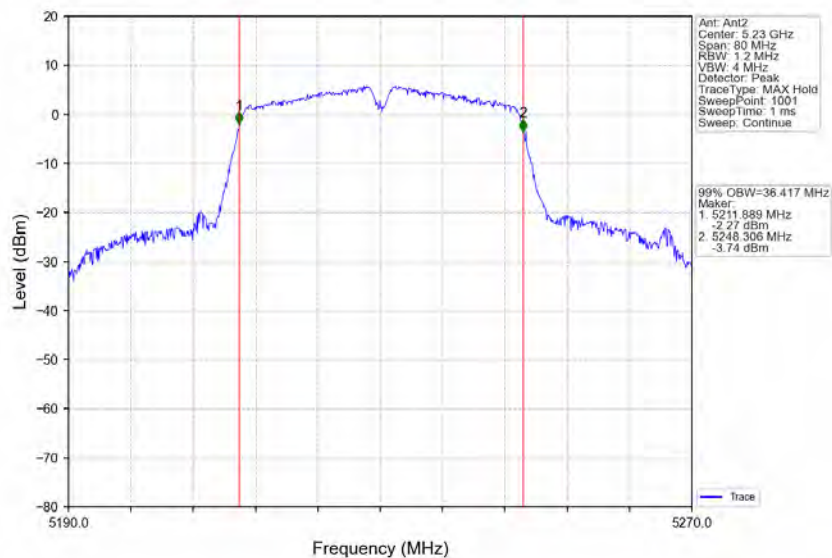
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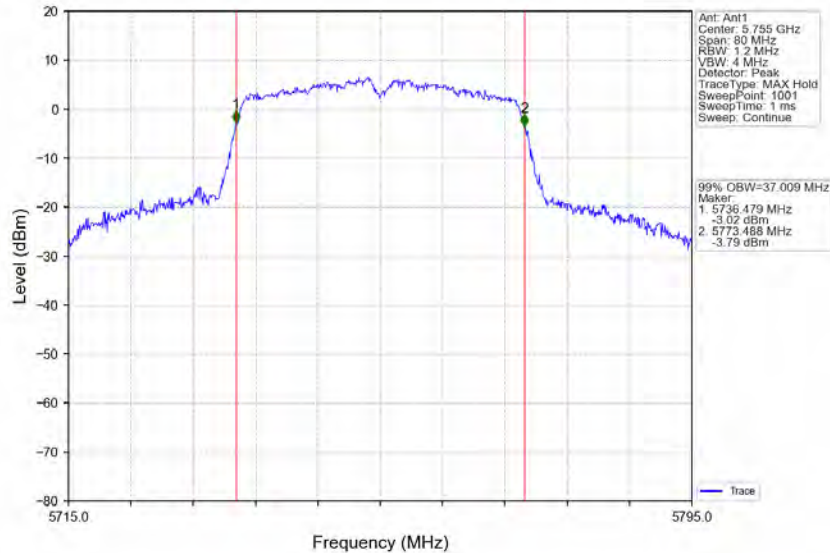
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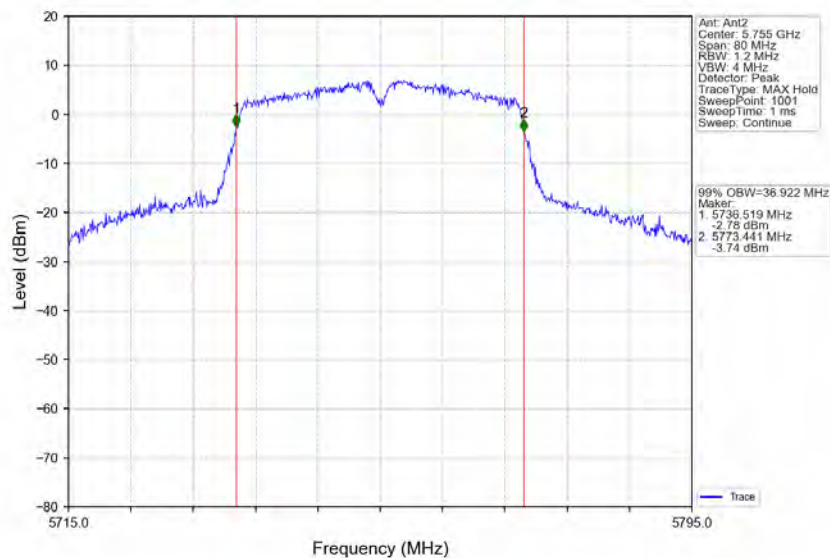
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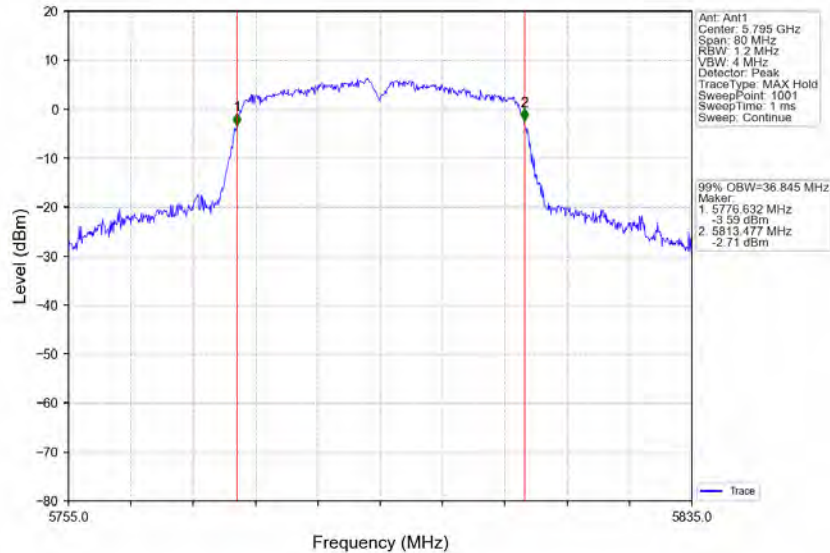
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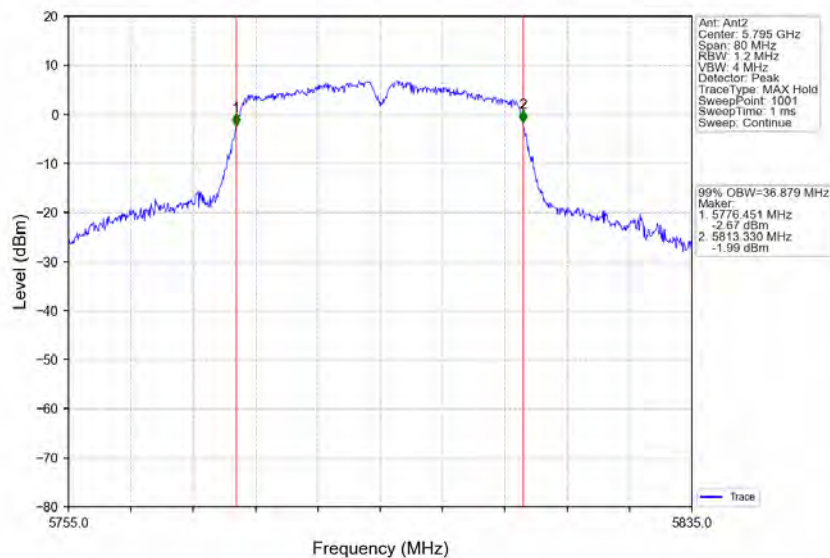
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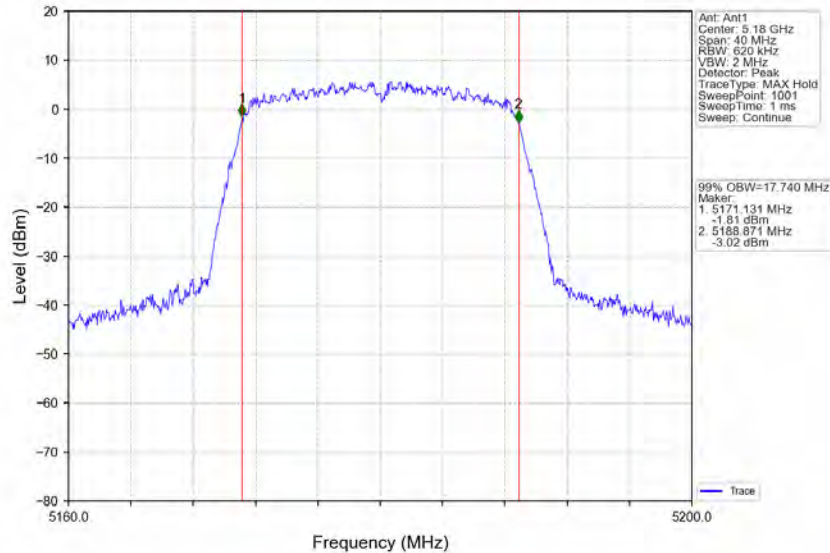
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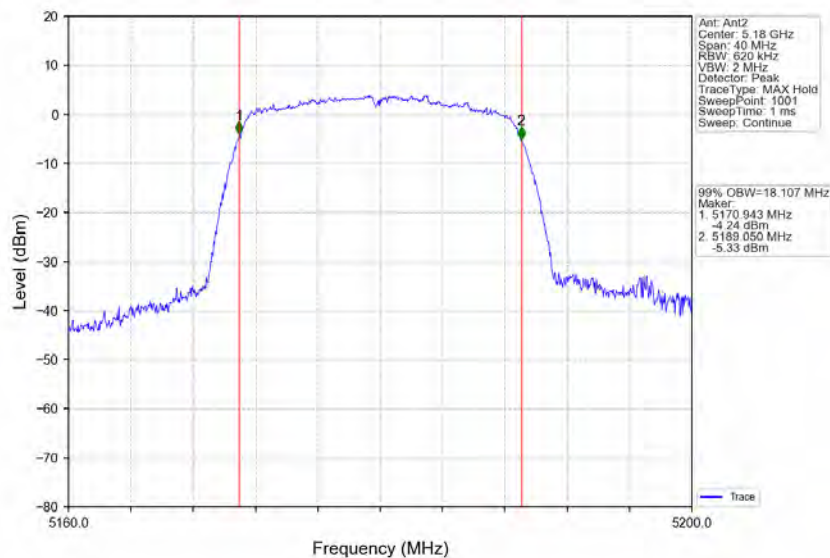
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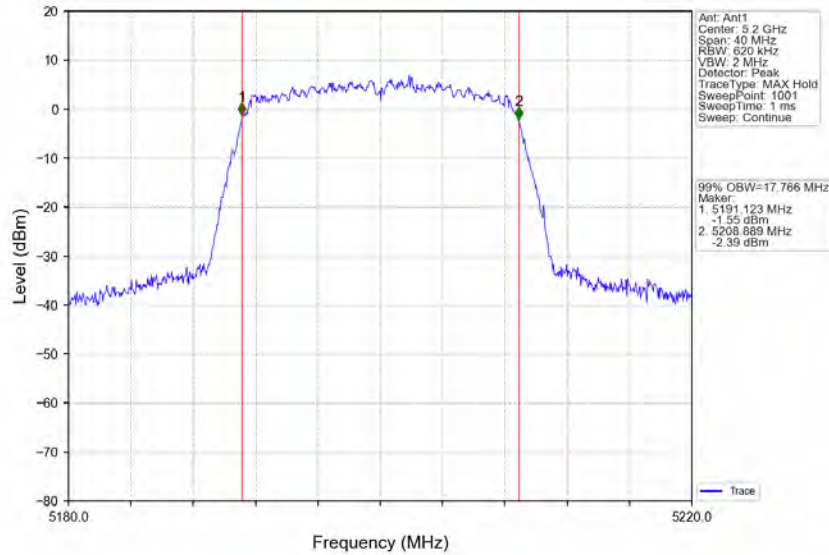
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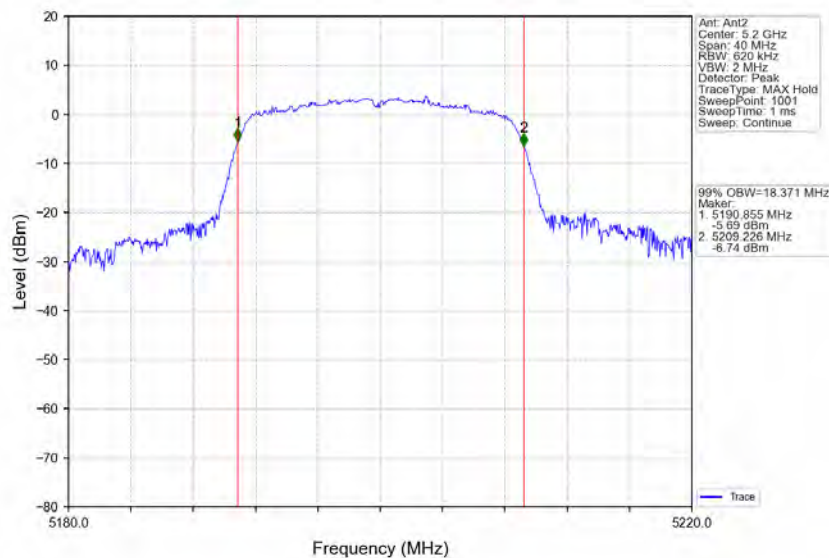
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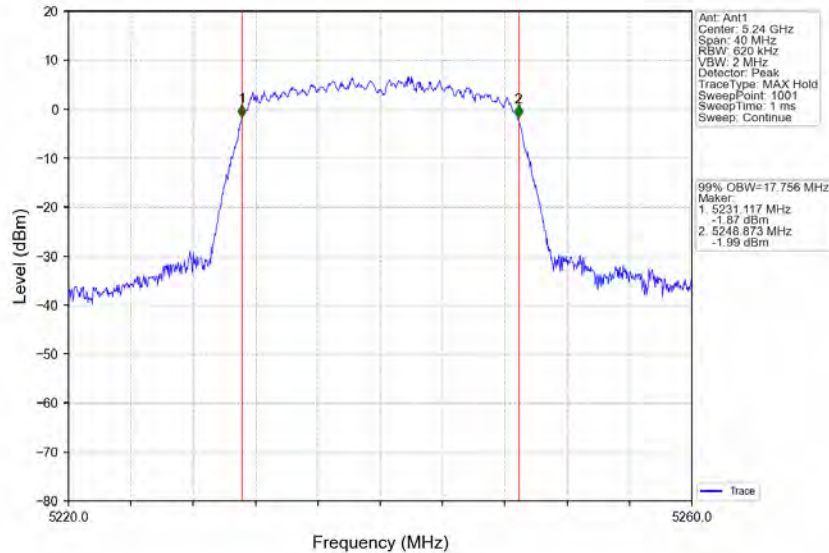
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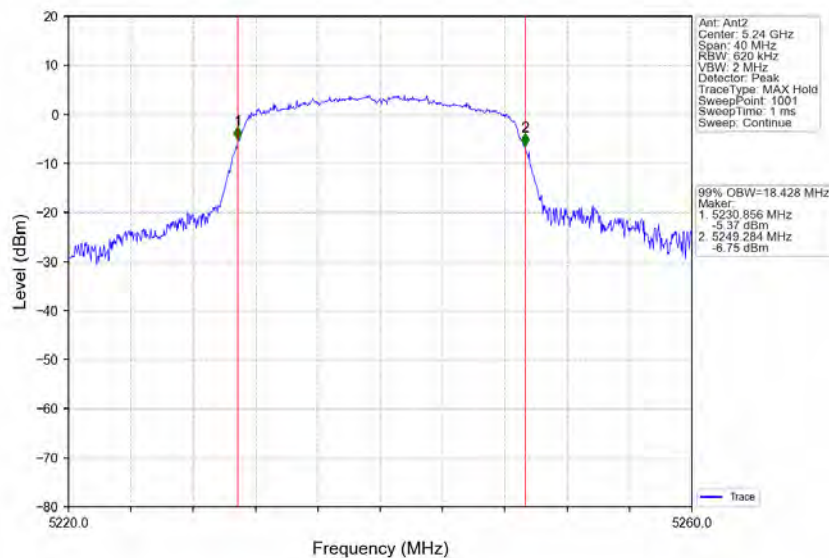
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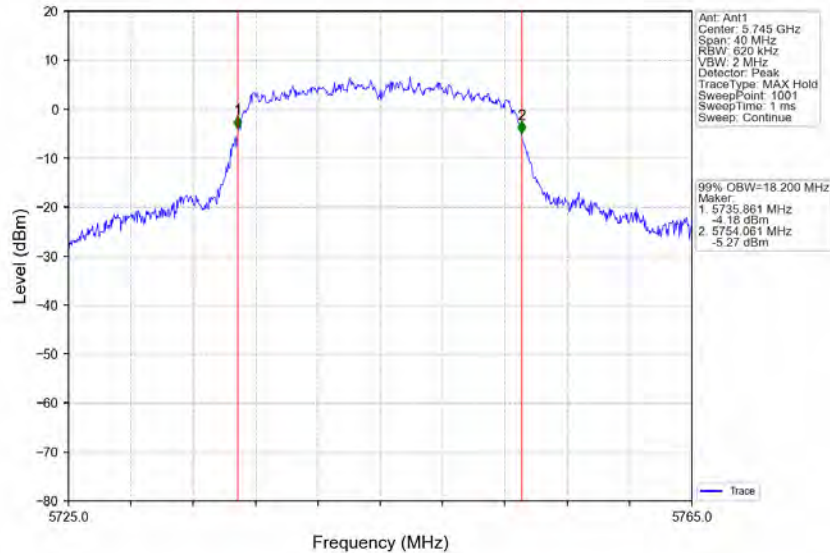
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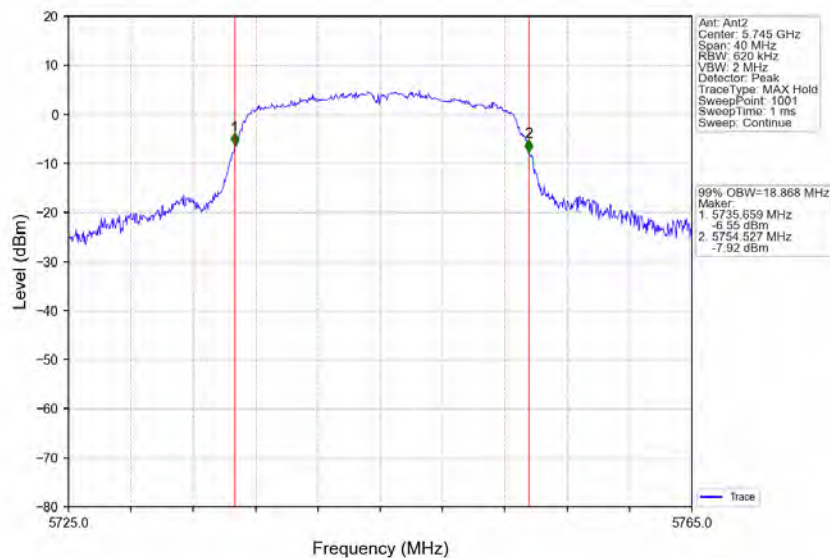
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802.11ac(VHT20)_LCH_5745MHz_Ant3_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant4_NTNV



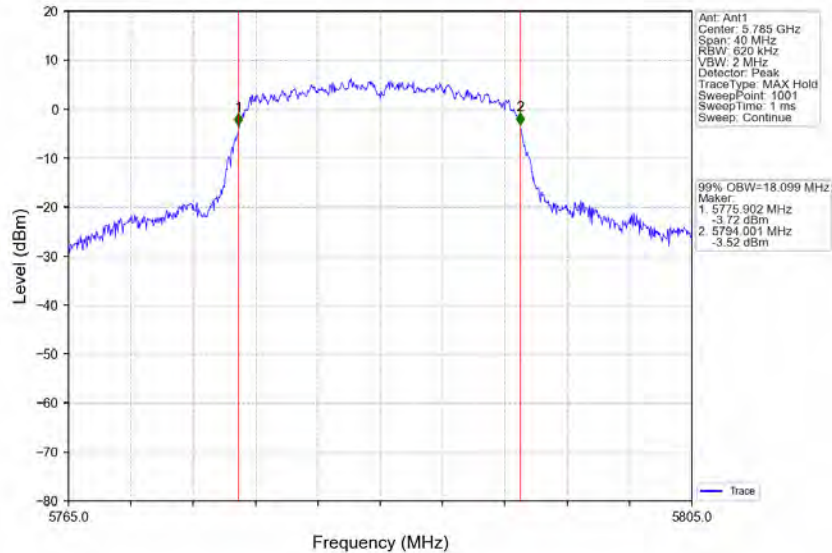
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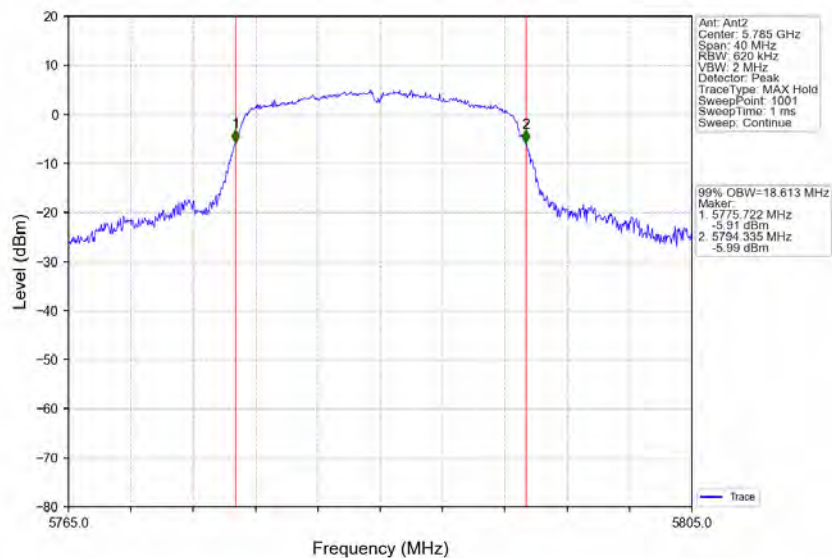
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802.11ac(VHT20)_MCH_5785MHz_Ant3_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant4_NTNV



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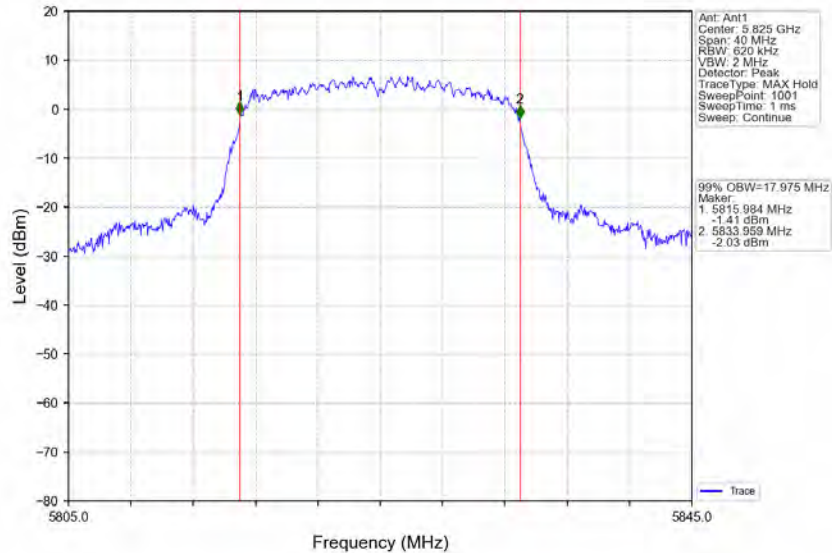
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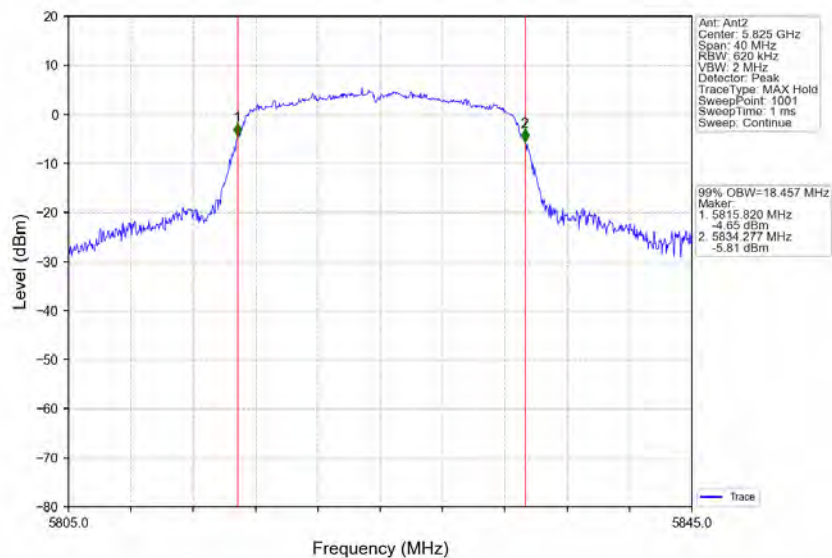
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802.11ac(VHT20)_HCH_5825MHz_Ant3_NTNV



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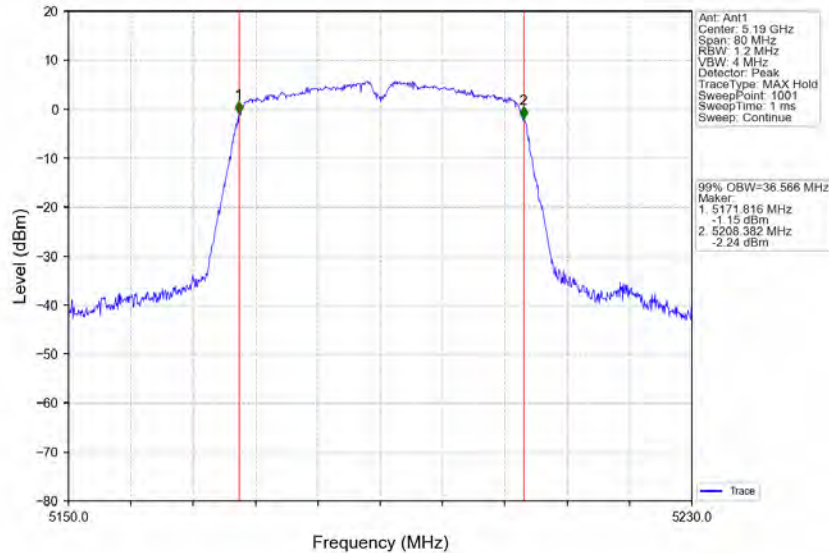
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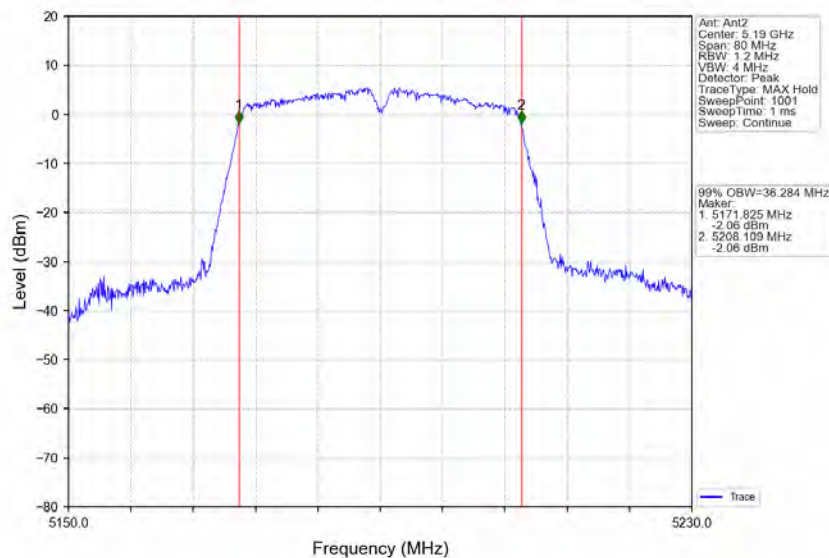
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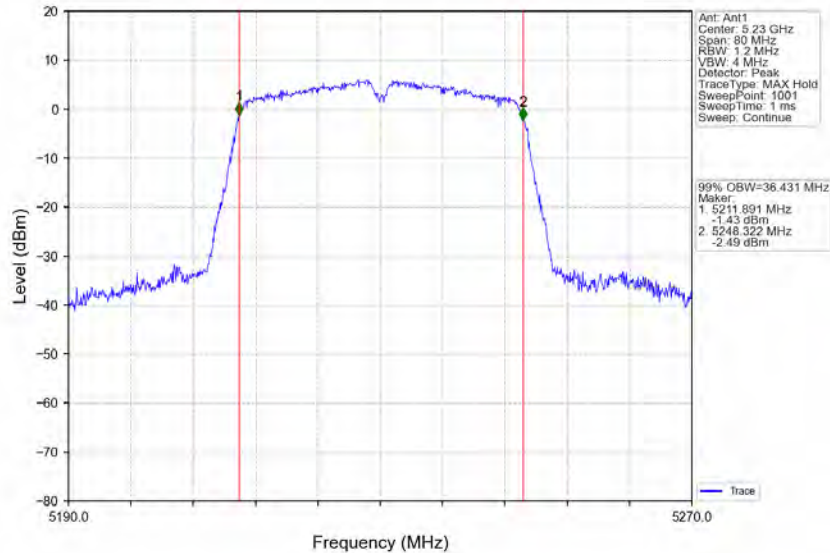
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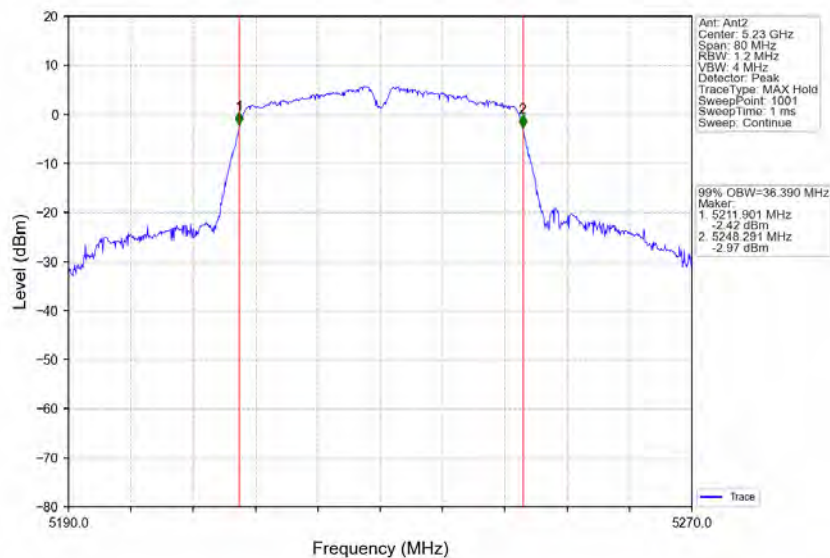
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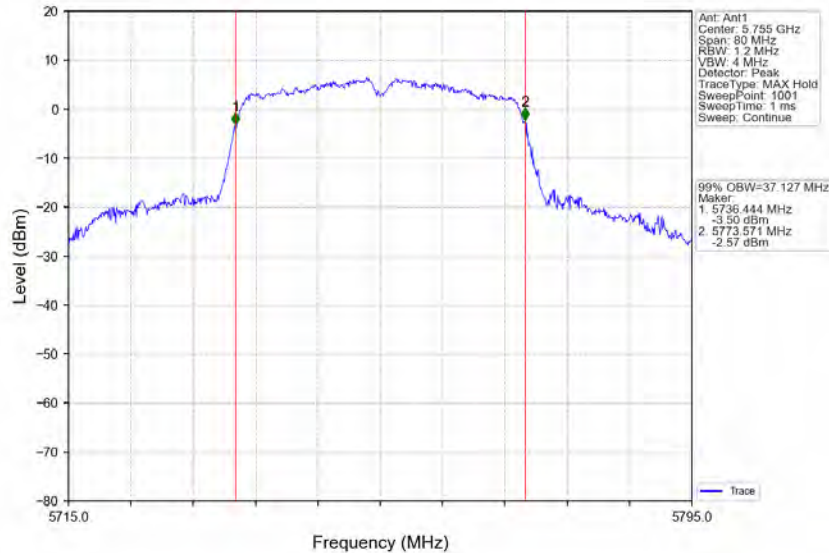
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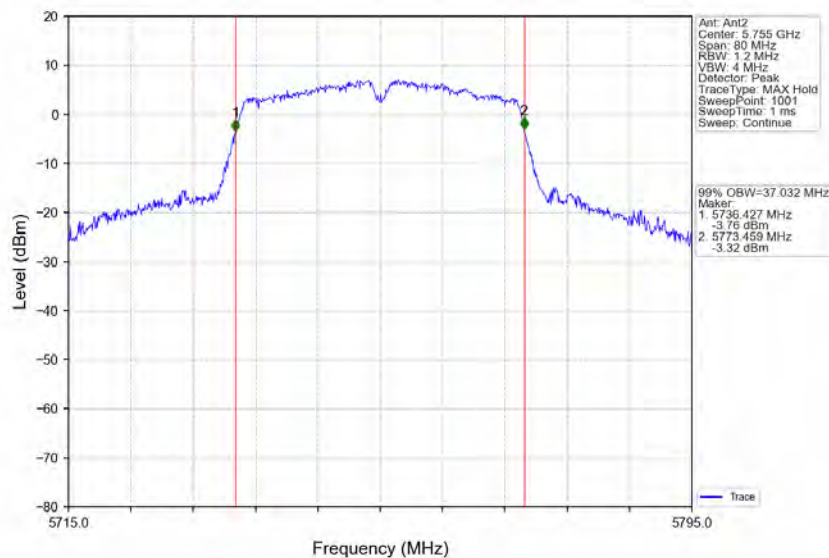
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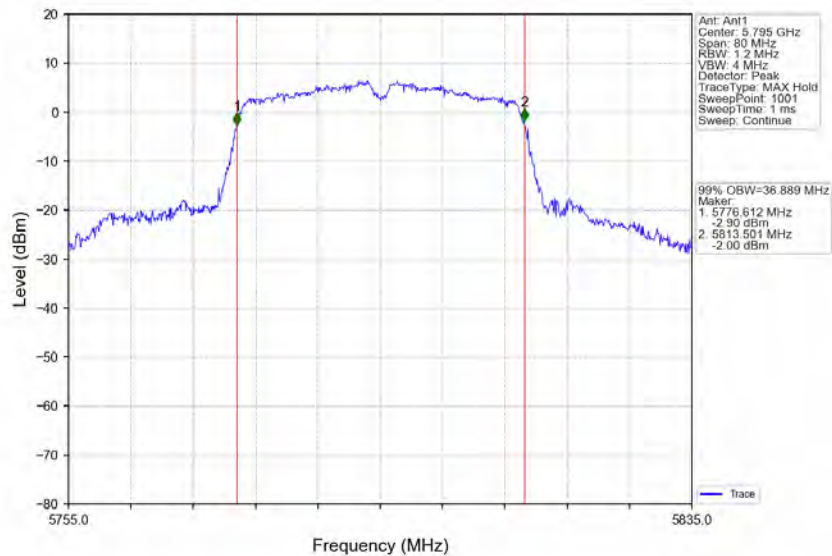
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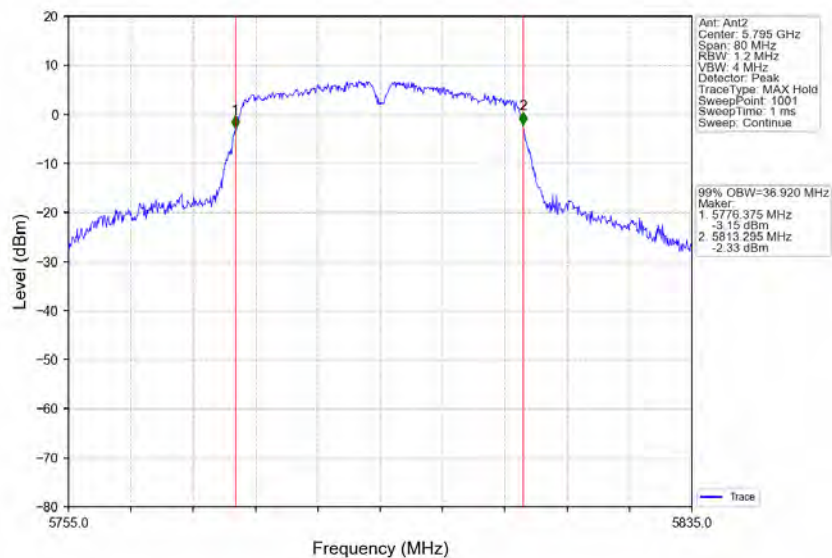
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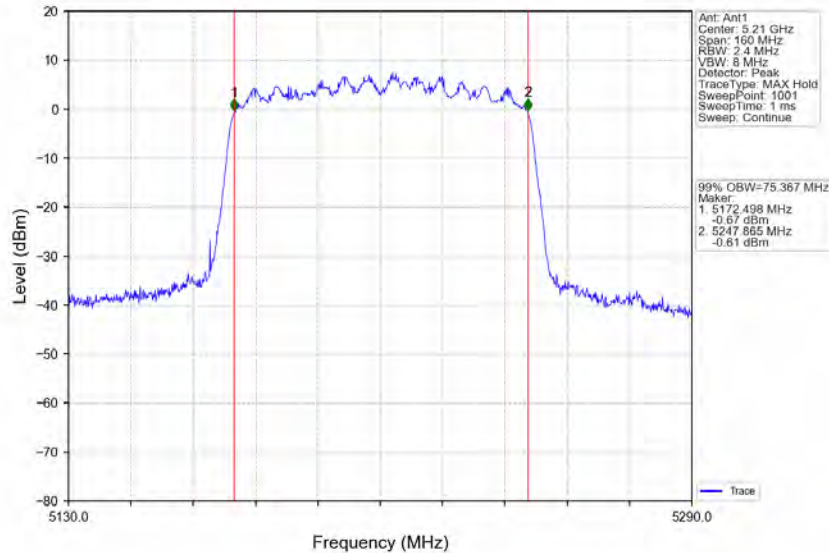
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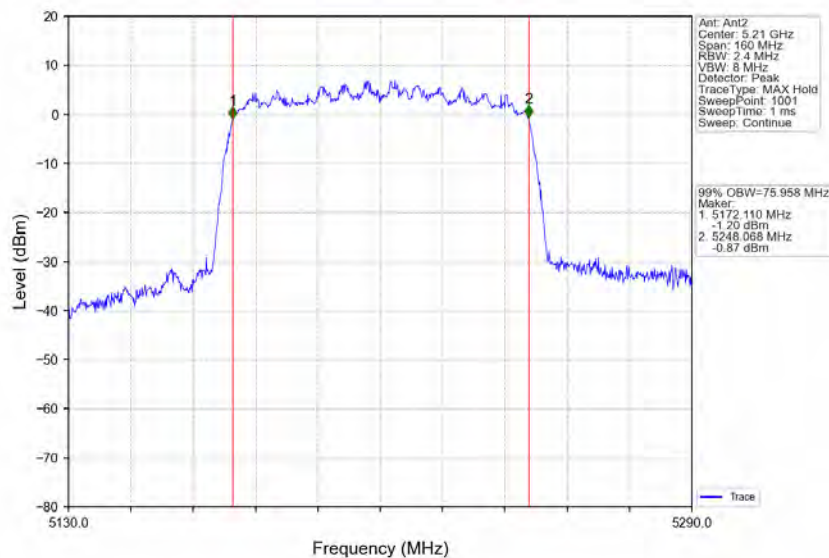
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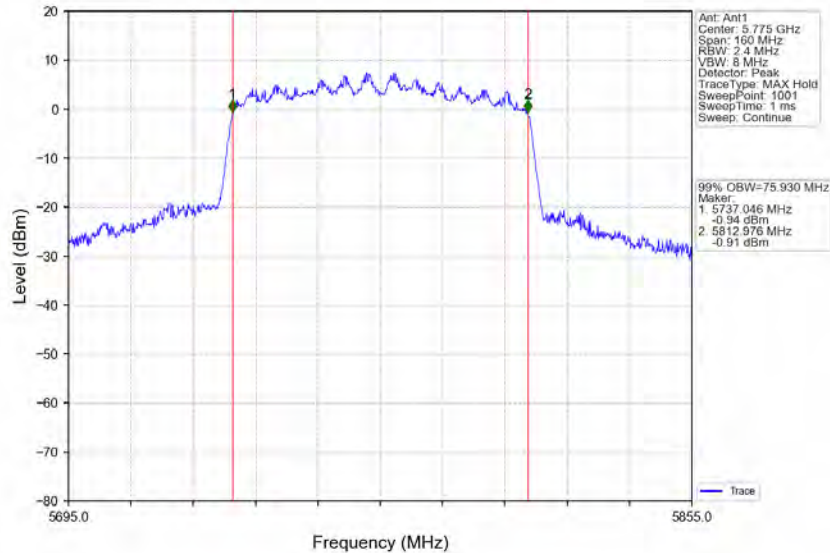
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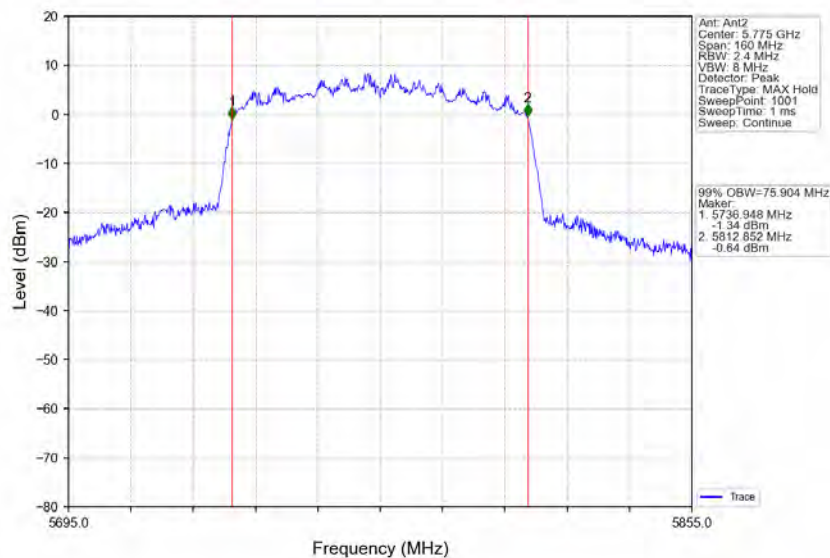
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Report No.: KSCR220800157006

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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.163	≥ 0.5	Pass
			2	15.164	≥ 0.5	Pass
		5785	1	15.124	≥ 0.5	Pass
			2	15.163	≥ 0.5	Pass
		5825	1	15.111	≥ 0.5	Pass
			2	15.146	≥ 0.5	Pass
802.11n (HT20)	MIMO	5745	1	15.735	≥ 0.5	Pass
			2	15.119	≥ 0.5	Pass
		5785	1	15.717	≥ 0.5	Pass
			2	15.127	≥ 0.5	Pass
		5825	1	15.960	≥ 0.5	Pass
			2	15.126	≥ 0.5	Pass
802.11n (HT40)	MIMO	5755	1	35.129	≥ 0.5	Pass
			2	35.129	≥ 0.5	Pass
		5795	1	35.133	≥ 0.5	Pass
			2	35.142	≥ 0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	15.139	≥ 0.5	Pass
			2	15.141	≥ 0.5	Pass
		5785	1	15.122	≥ 0.5	Pass
			2	15.150	≥ 0.5	Pass
		5825	1	15.130	≥ 0.5	Pass
			2	15.144	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	35.123	≥ 0.5	Pass
			2	35.129	≥ 0.5	Pass
		5795	1	35.053	≥ 0.5	Pass
			2	35.120	≥ 0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	75.111	≥ 0.5	Pass
			2	75.126	≥ 0.5	Pass



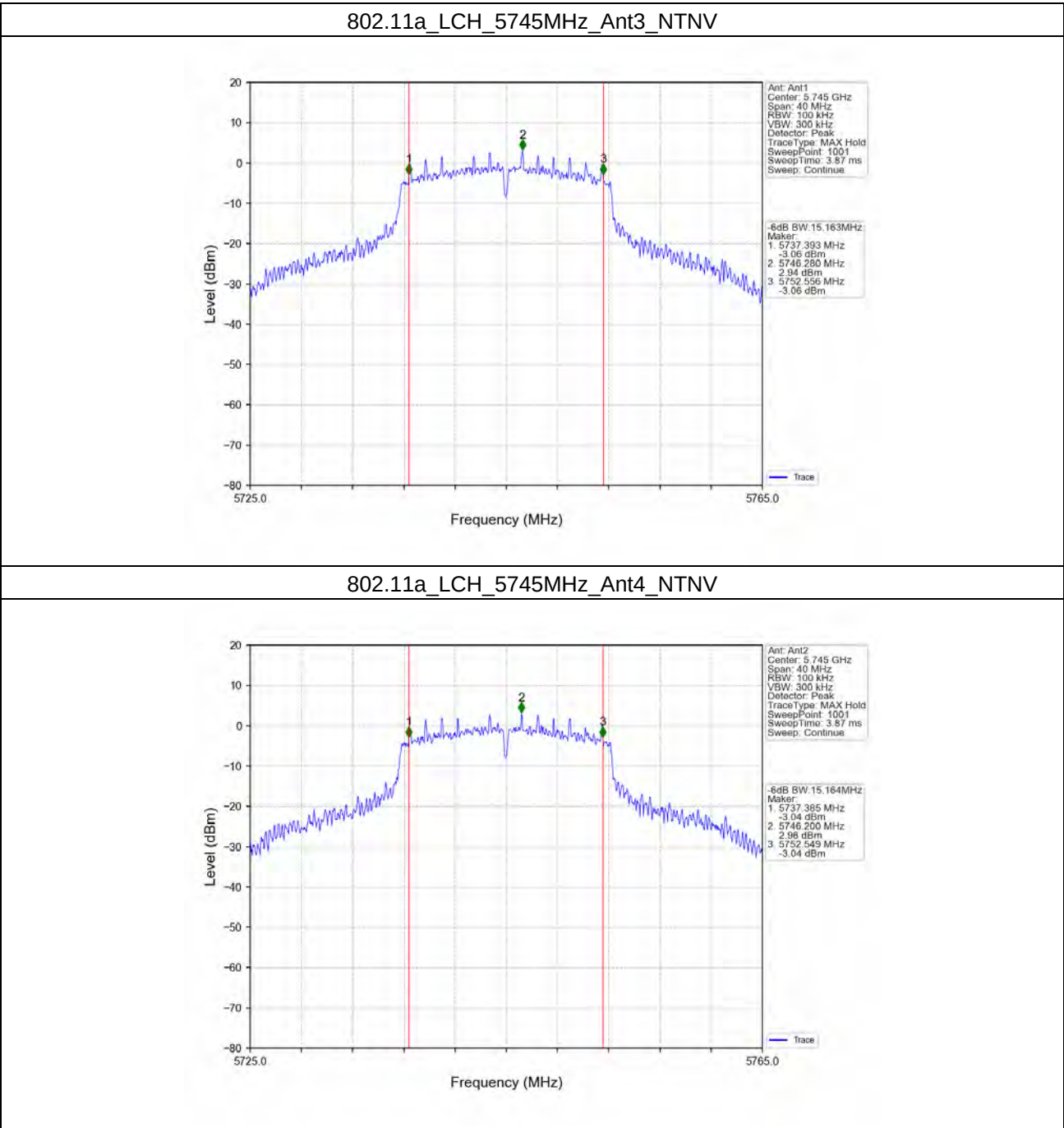
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2.2.2 Test Graph



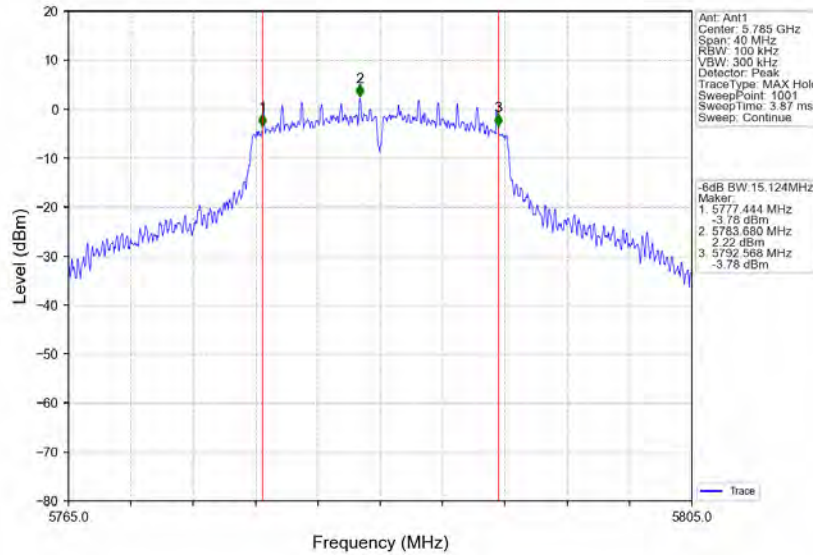
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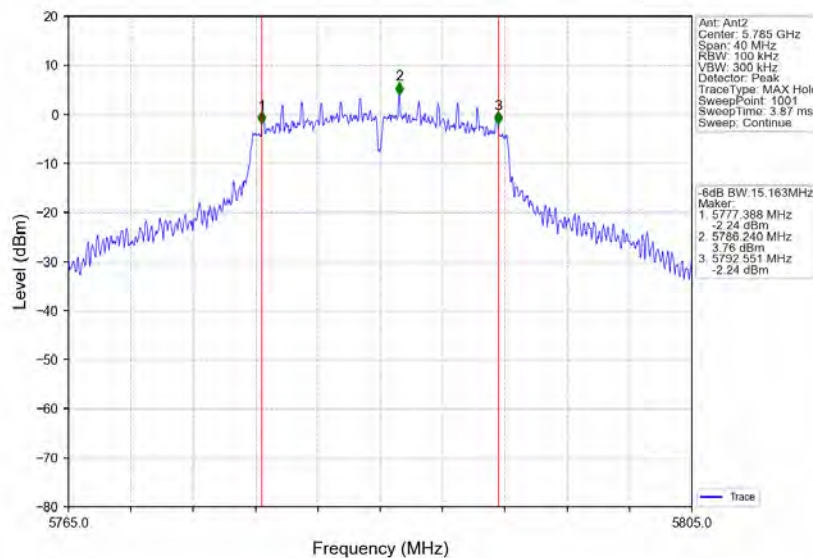
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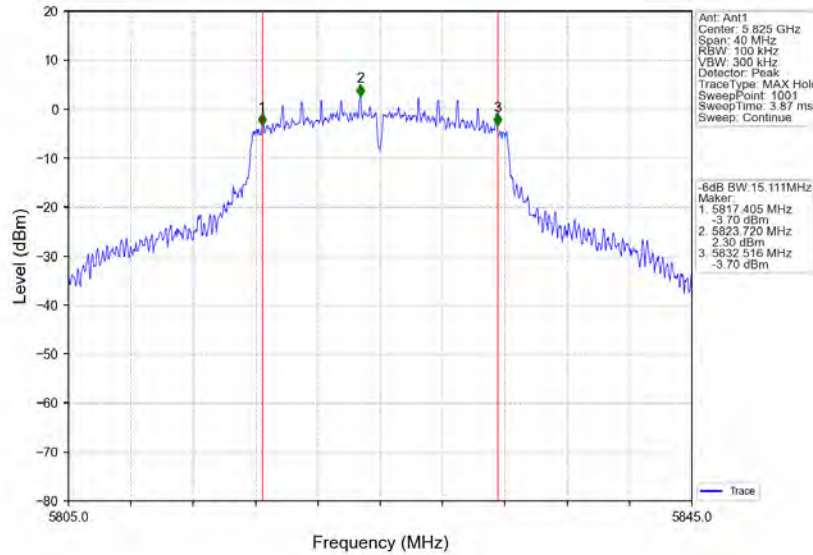
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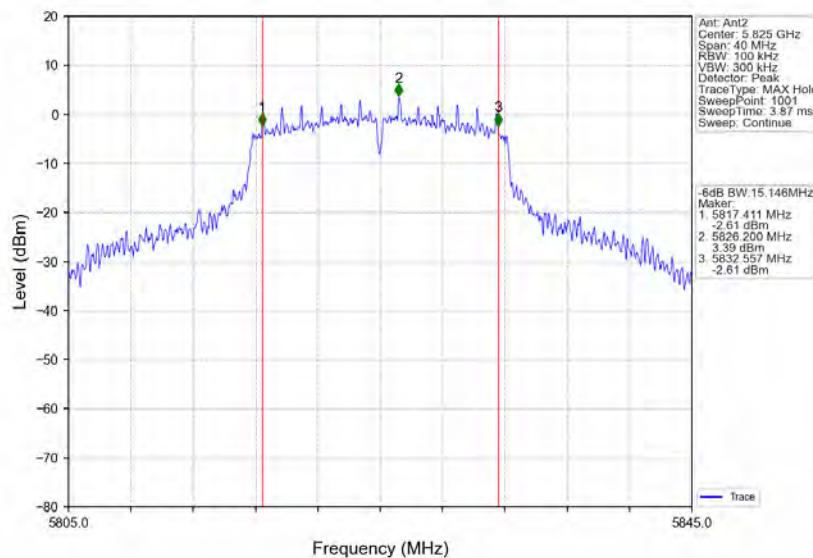
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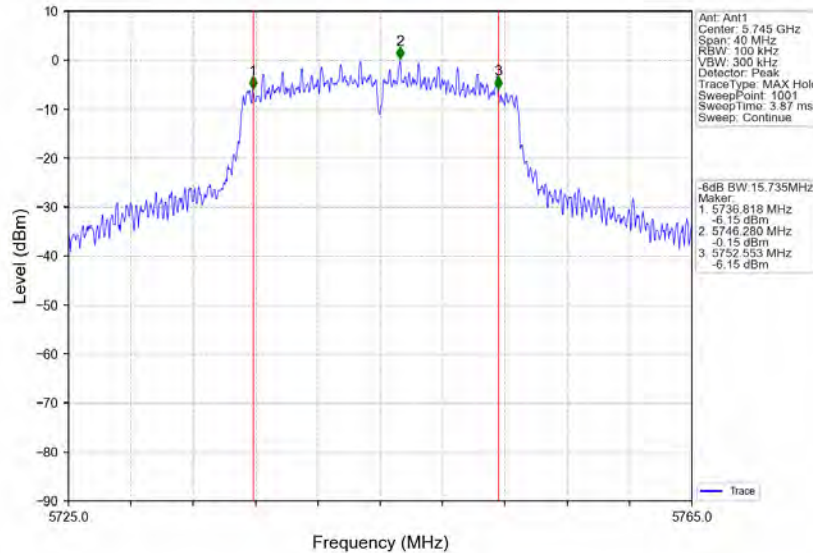
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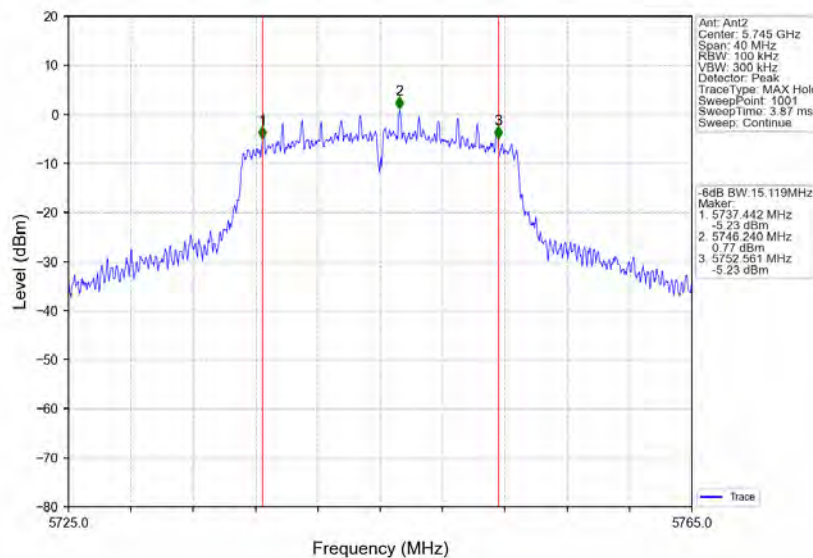
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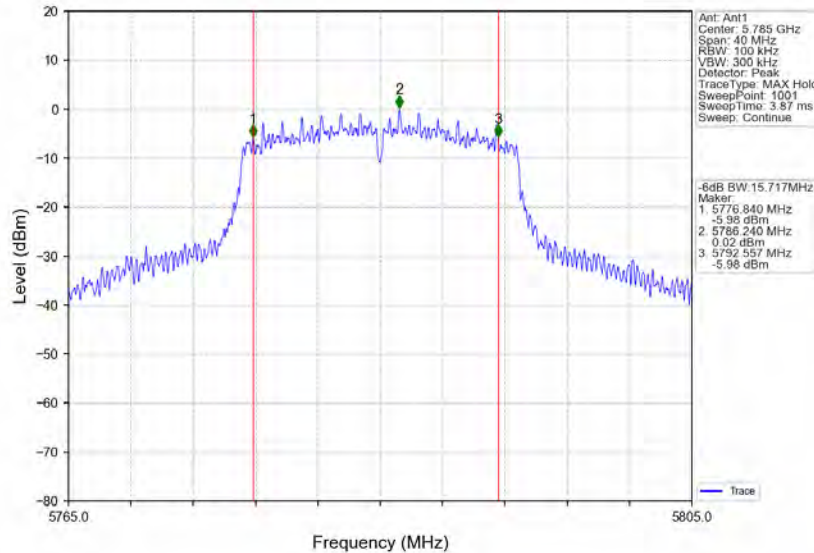
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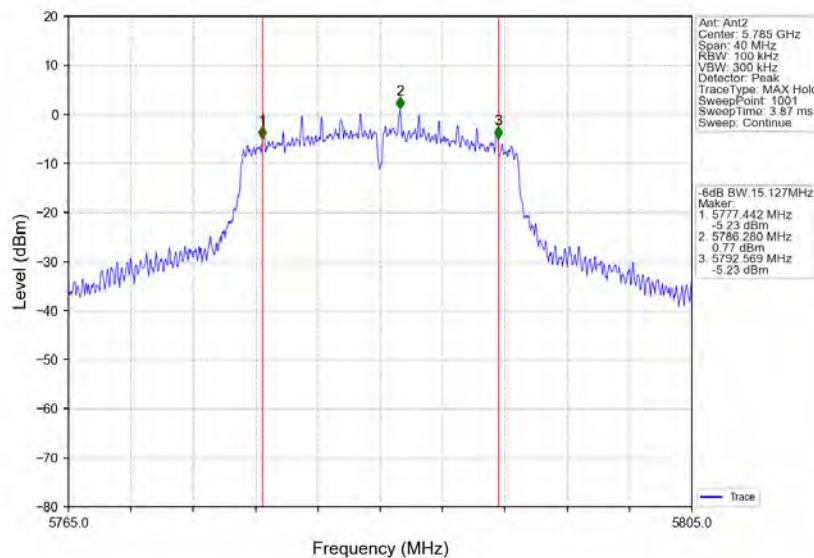
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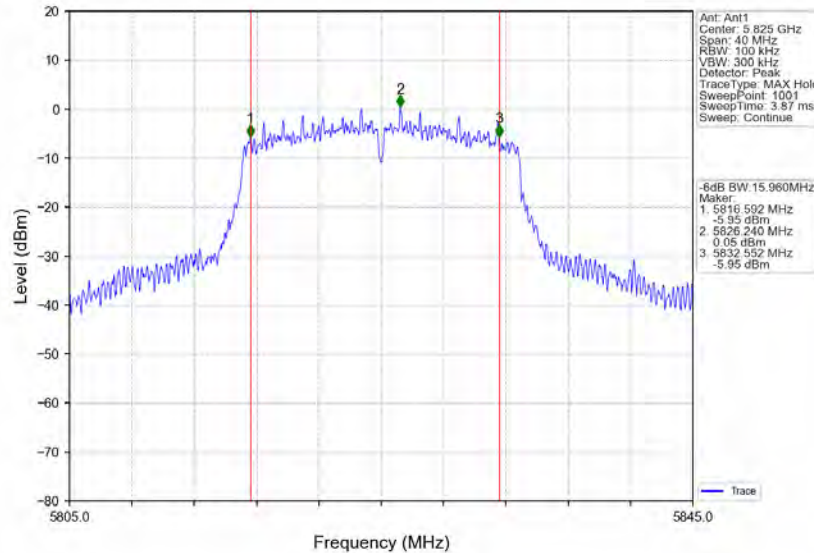
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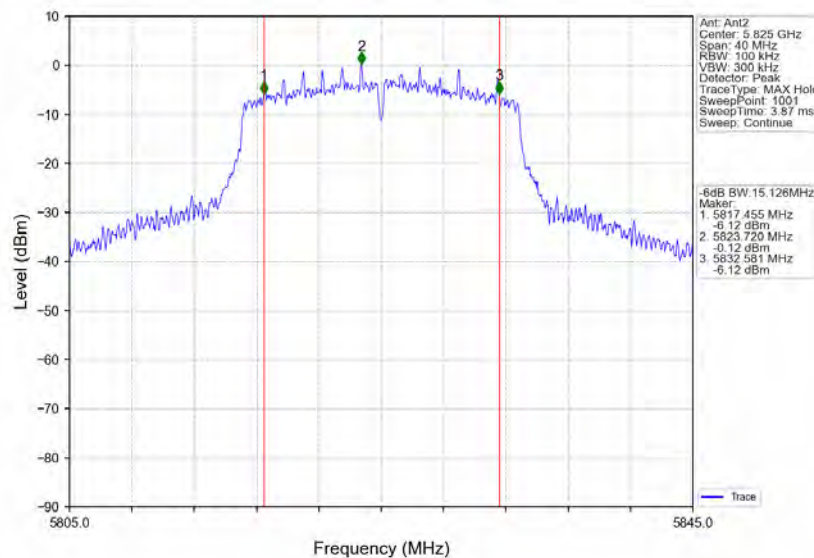
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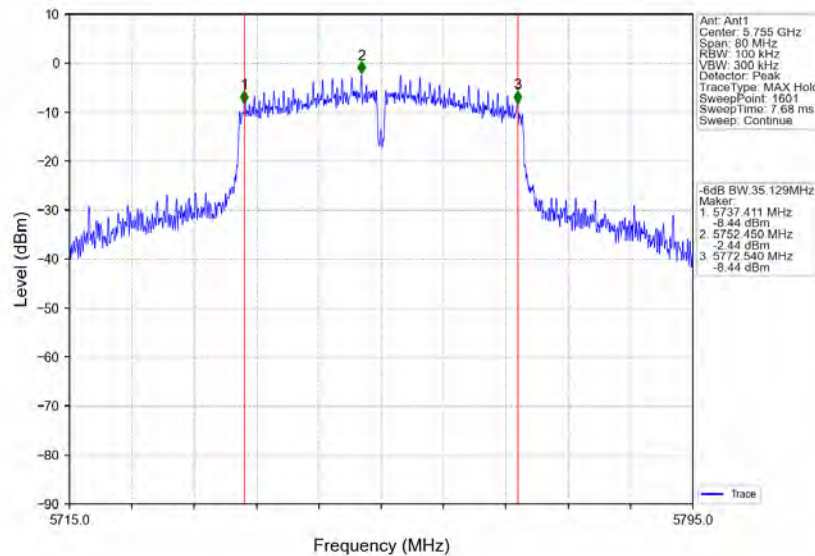
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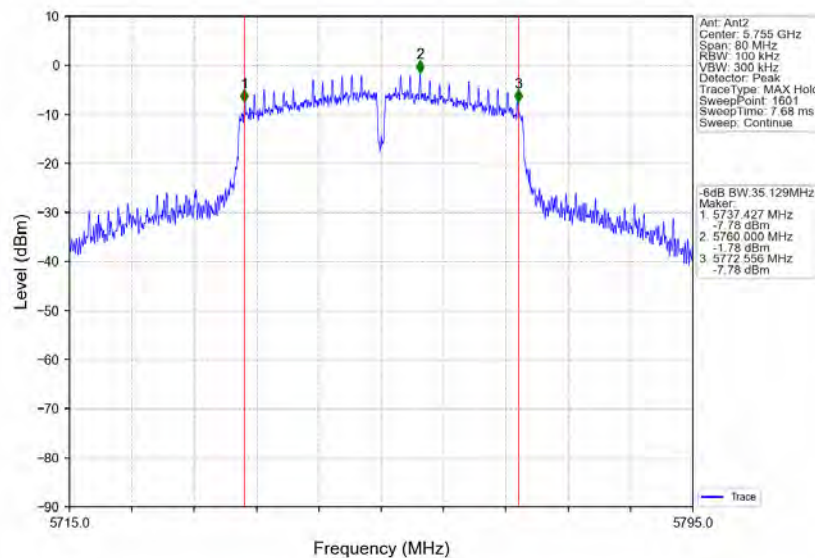
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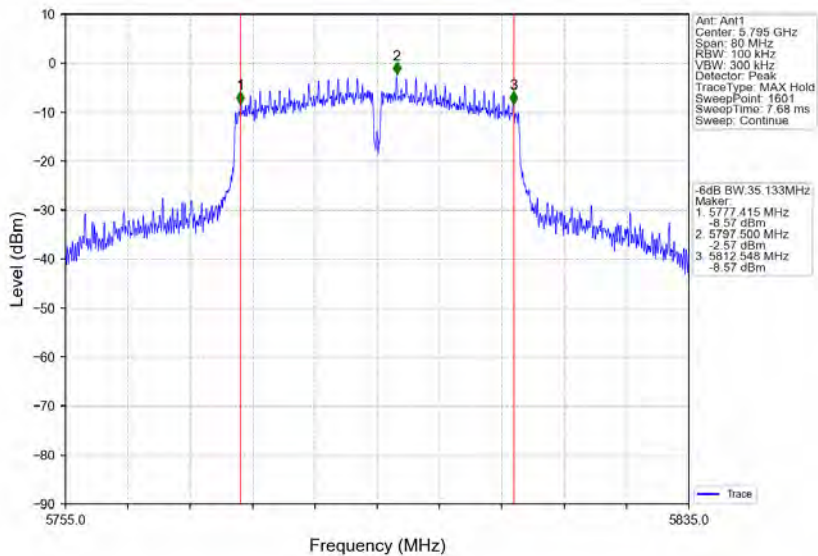
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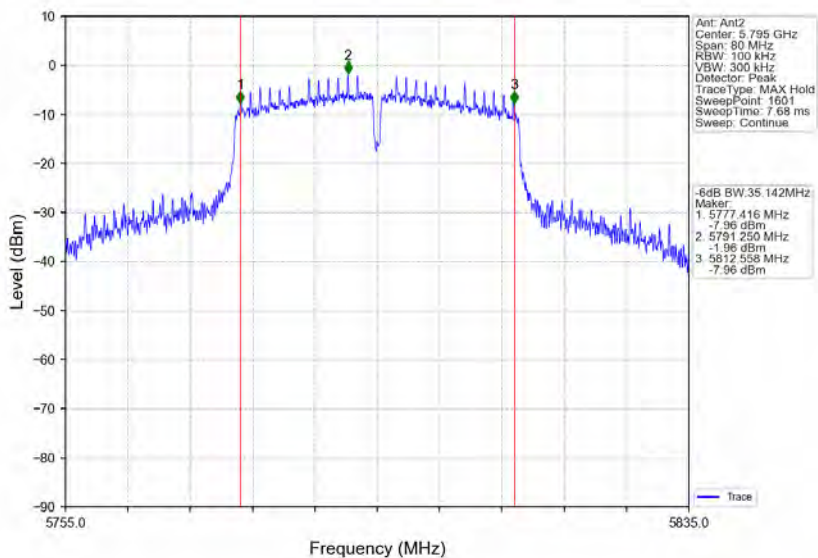
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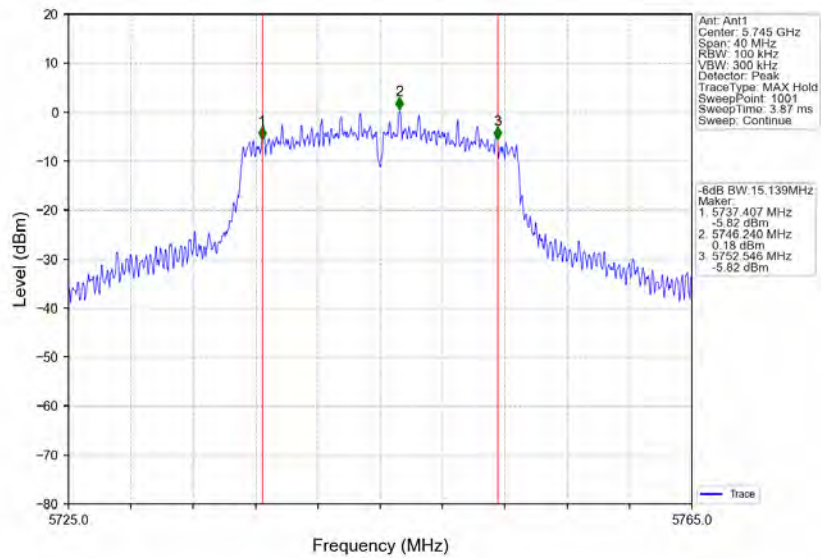
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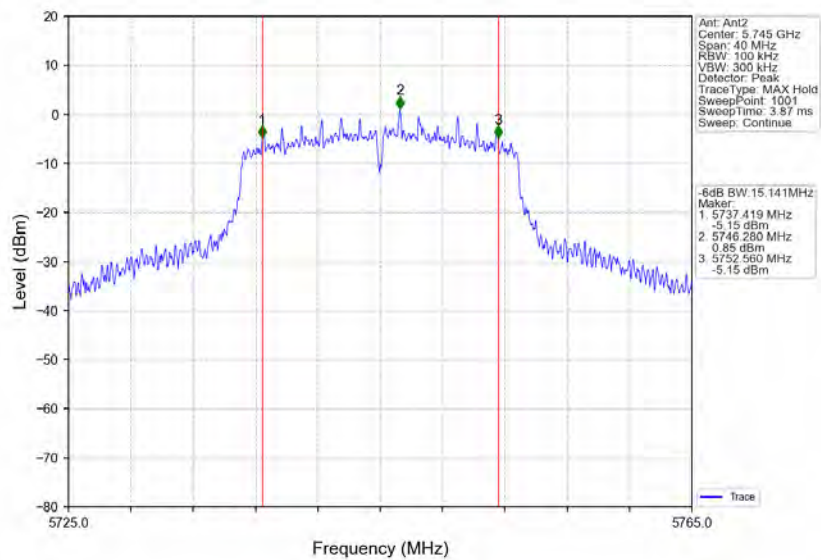
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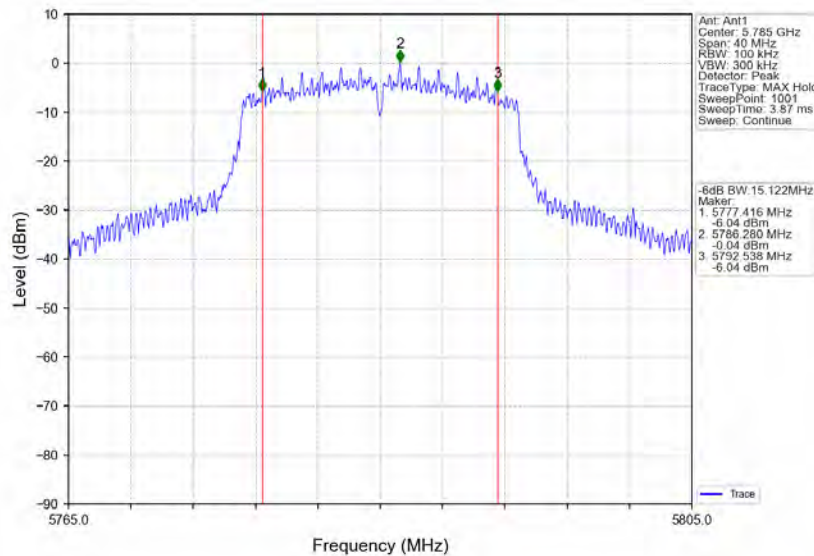
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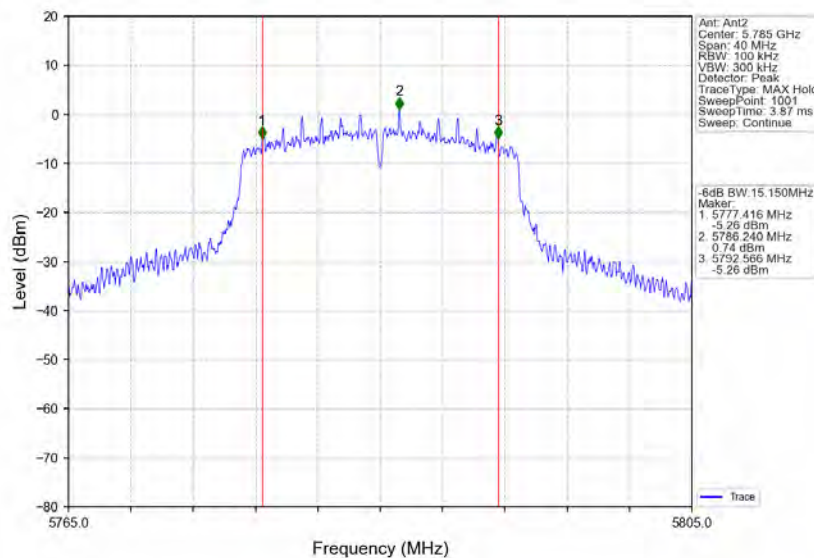
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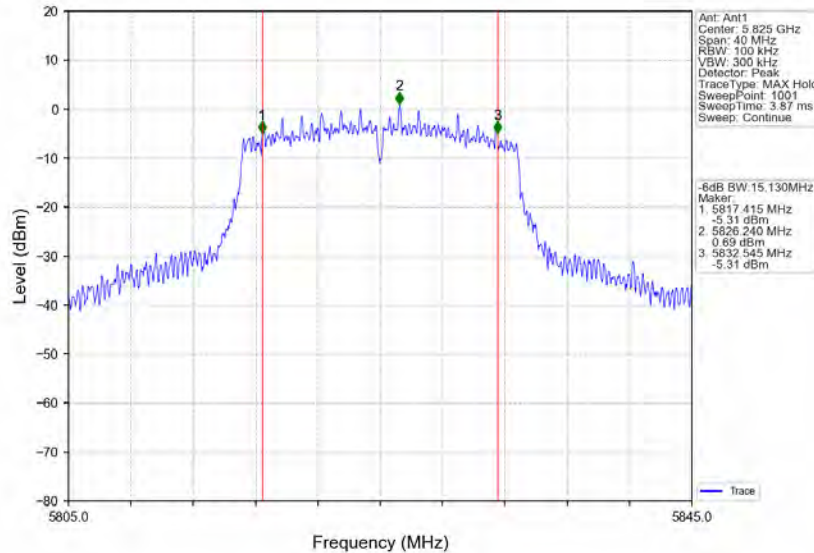
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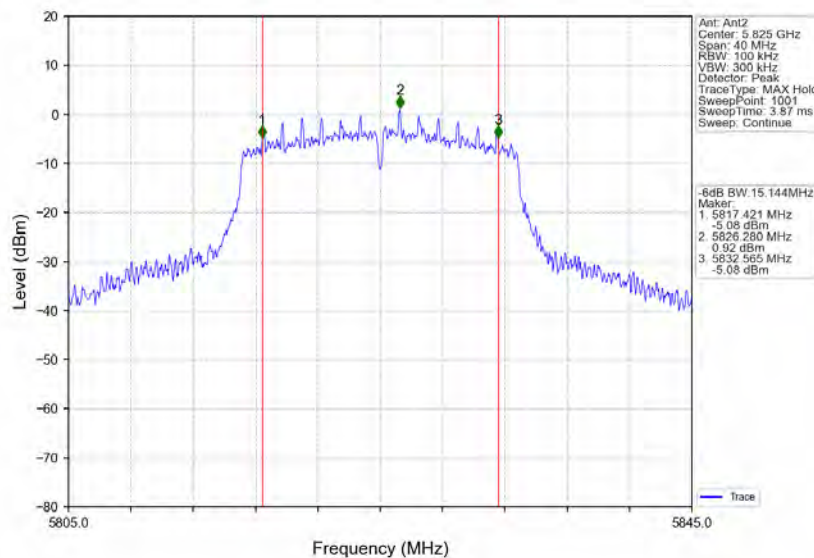
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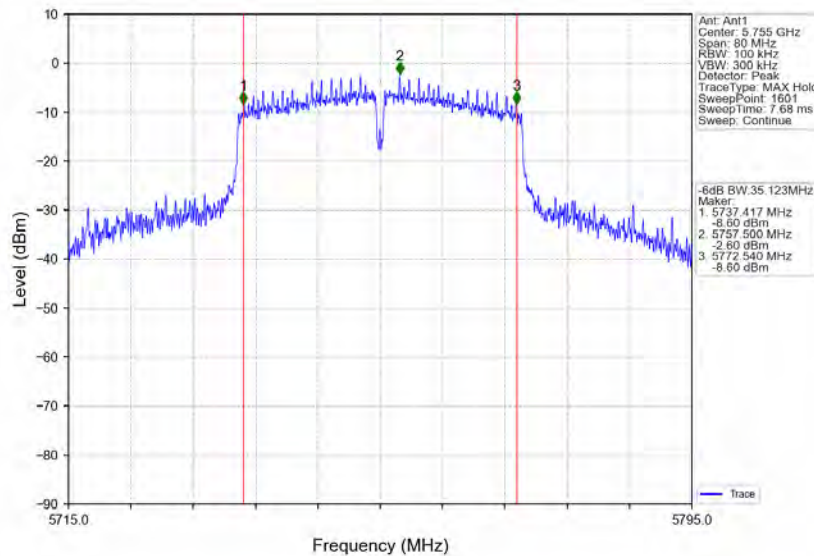
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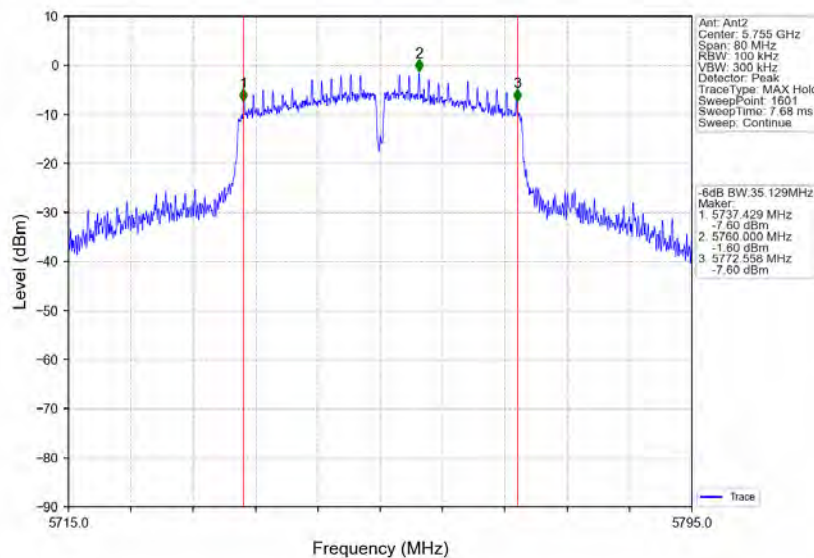
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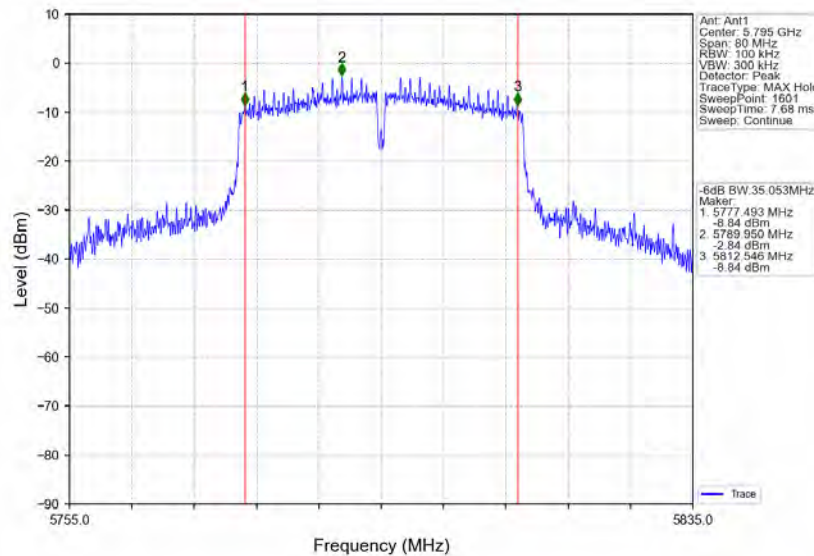
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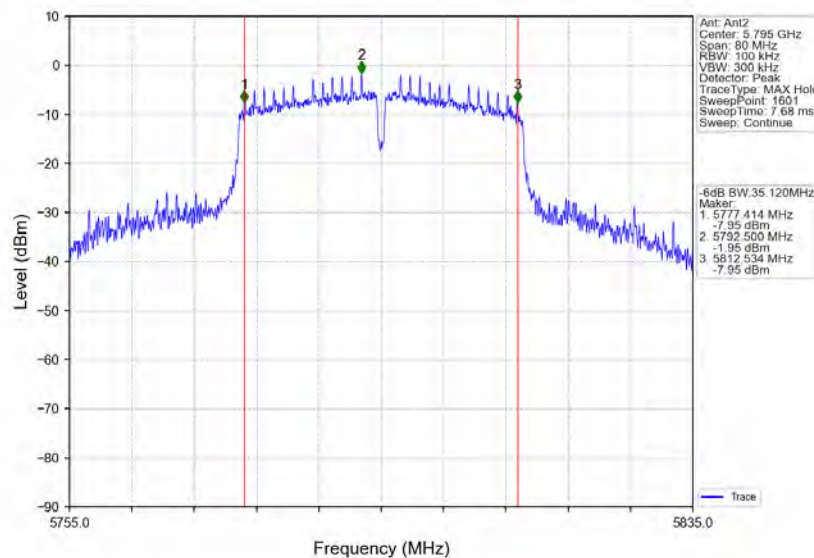
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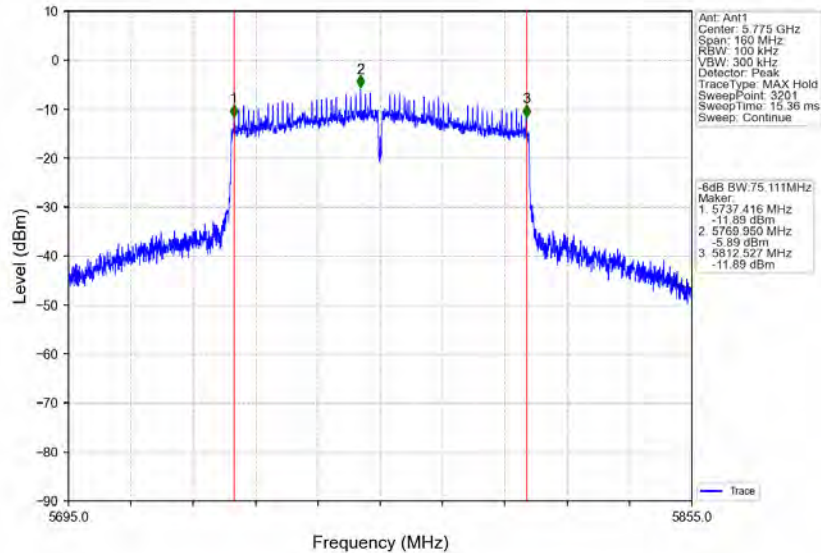
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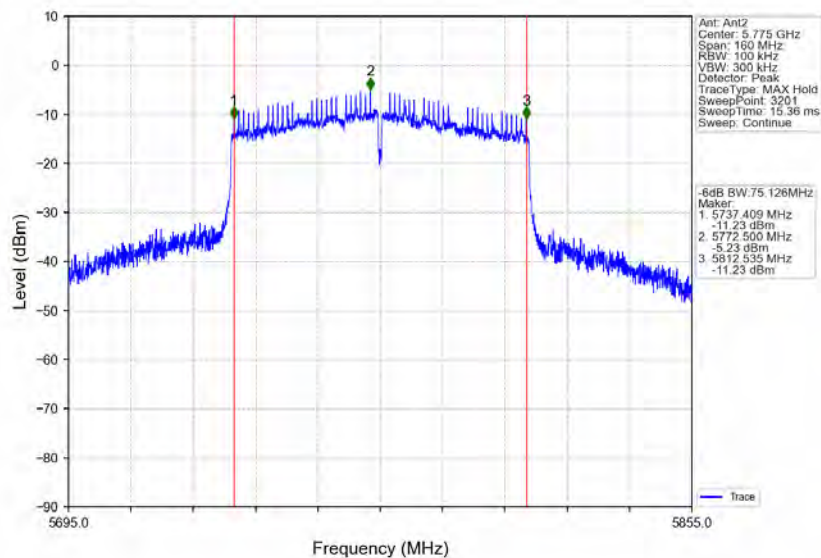
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220800157006

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2.3 26dB BW

2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	20.626	Pass
			2	20.462	Pass
		5200	1	20.541	Pass
			2	32.549	Pass
		5240	1	20.474	Pass
			2	34.276	Pass
802.11n (HT20)	MIMO	5180	1	20.571	Pass
			2	21.015	Pass
		5200	1	20.539	Pass
			2	26.179	Pass
		5240	1	20.561	Pass
			2	33.853	Pass
802.11n (HT40)	MIMO	5190	1	41.202	Pass
			2	41.505	Pass
		5230	1	41.624	Pass
			2	44.557	Pass
802.11ac (VHT20)	MIMO	5180	1	20.410	Pass
			2	21.003	Pass
		5200	1	20.428	Pass
			2	29.248	Pass
		5240	1	20.412	Pass
			2	30.706	Pass
802.11ac (VHT40)	MIMO	5190	1	41.336	Pass
			2	41.688	Pass
		5230	1	41.247	Pass
			2	43.453	Pass
802.11ac (VHT80)	MIMO	5210	1	81.716	Pass
			2	83.063	Pass



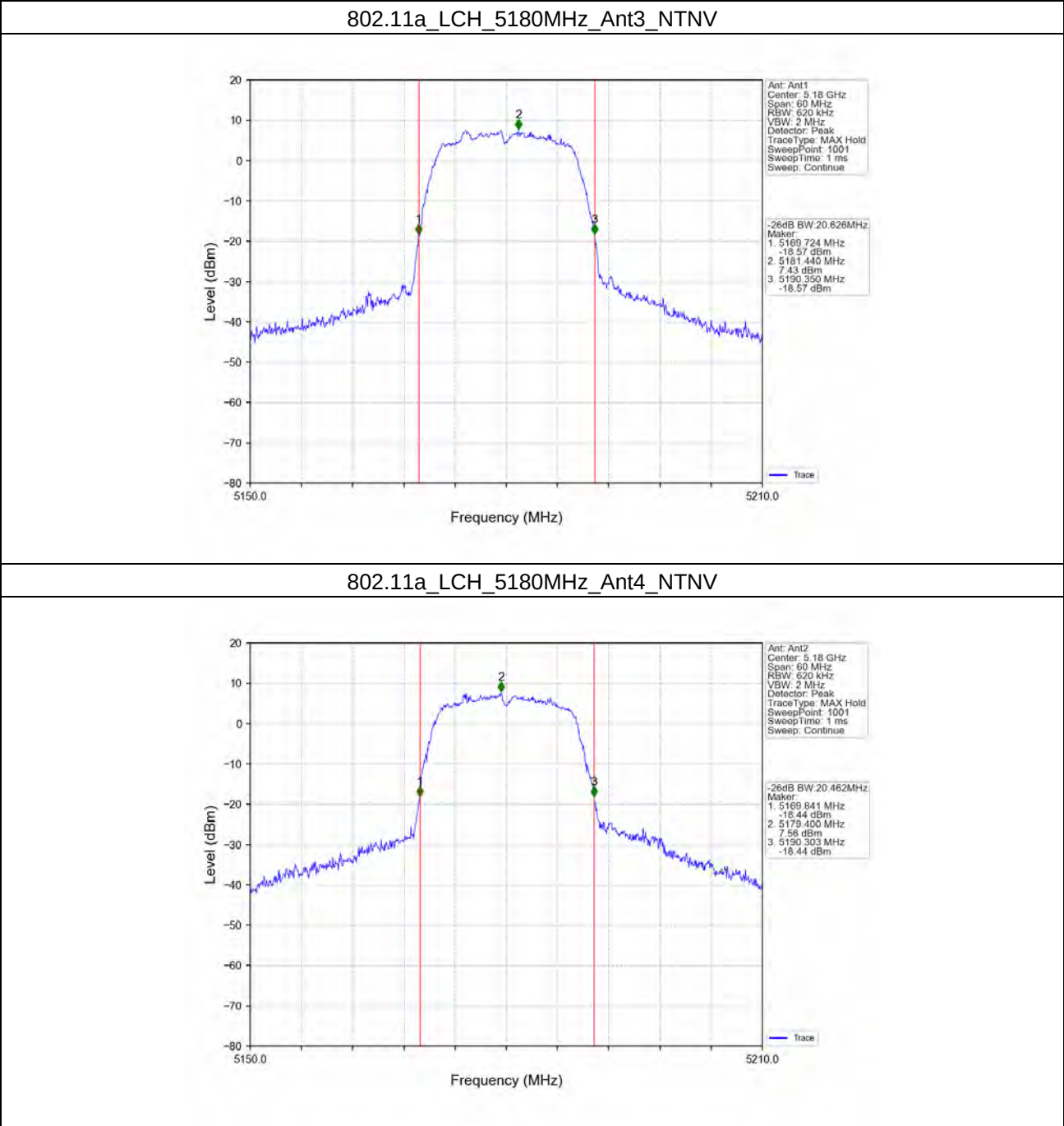
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2.3.2 Test Graph



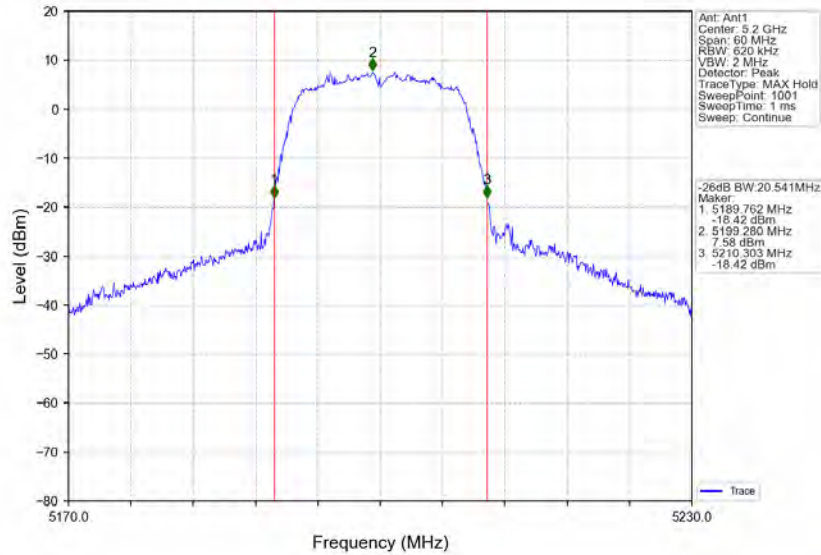
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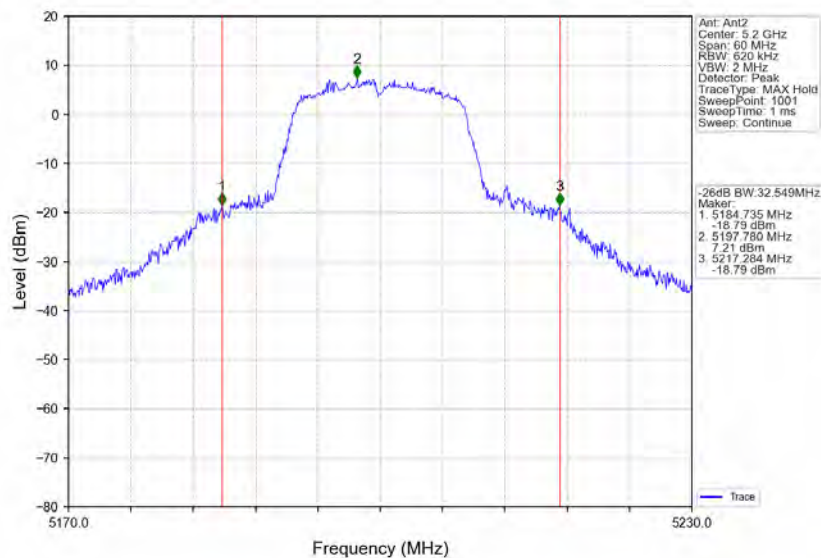
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802.11a_MCH_5200MHz_Ant4_NTNV



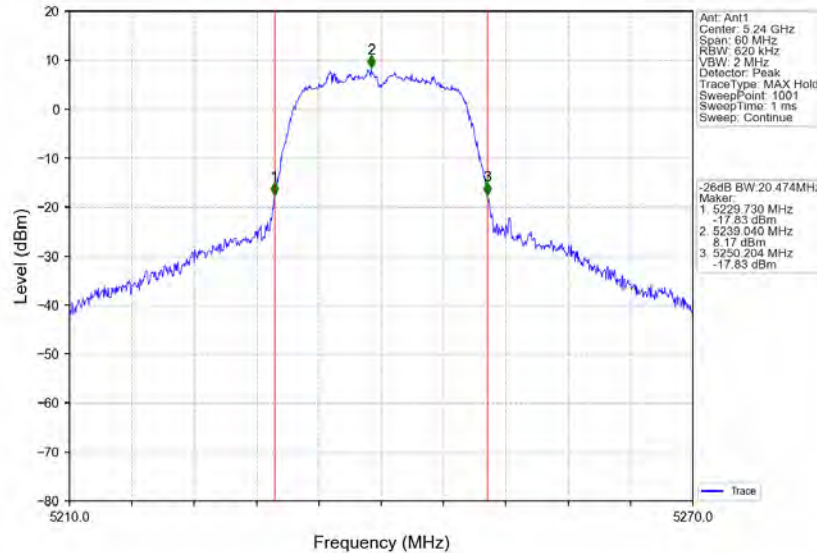
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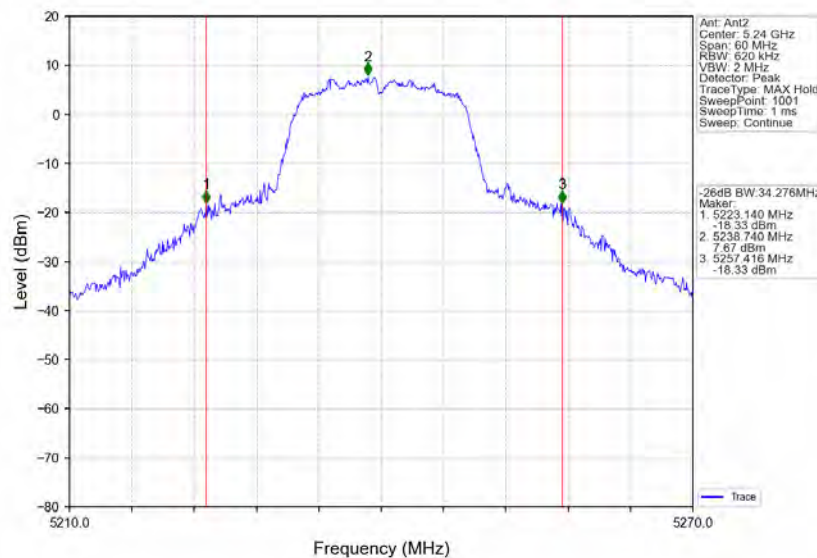
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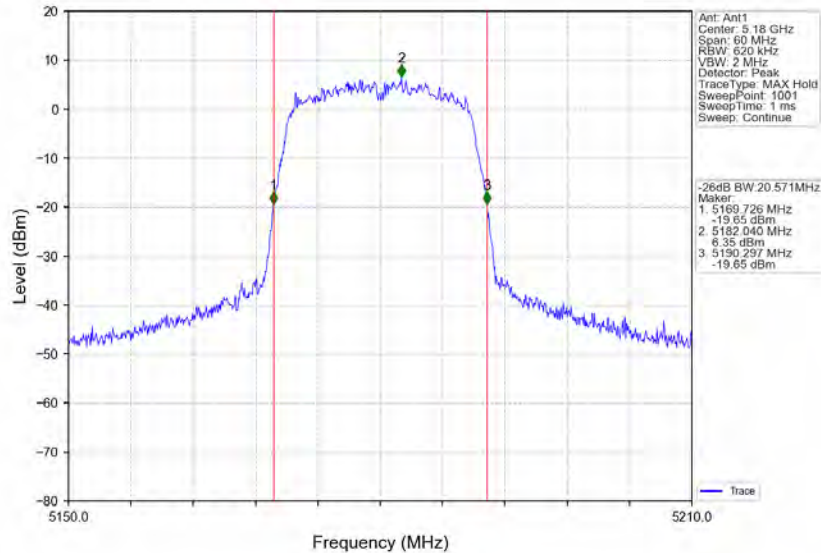
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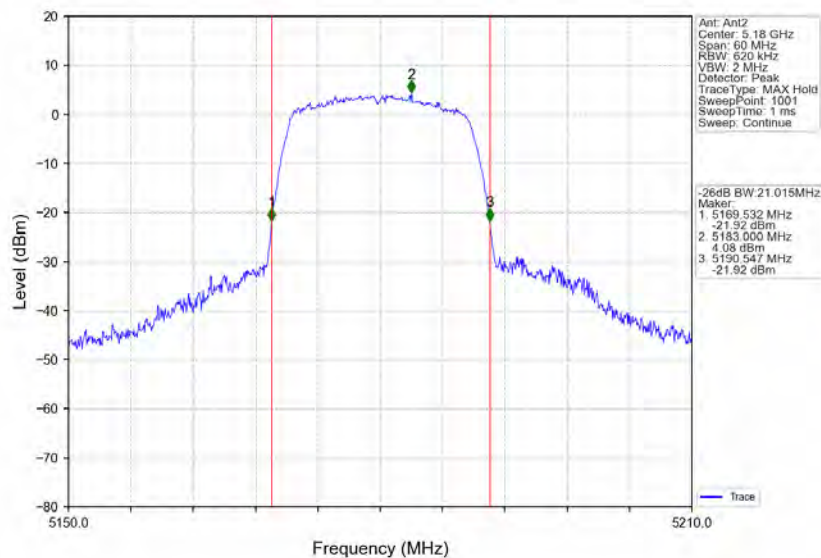
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802.11n(HT20)_LCH_5180MHz_Ant4_NTNV



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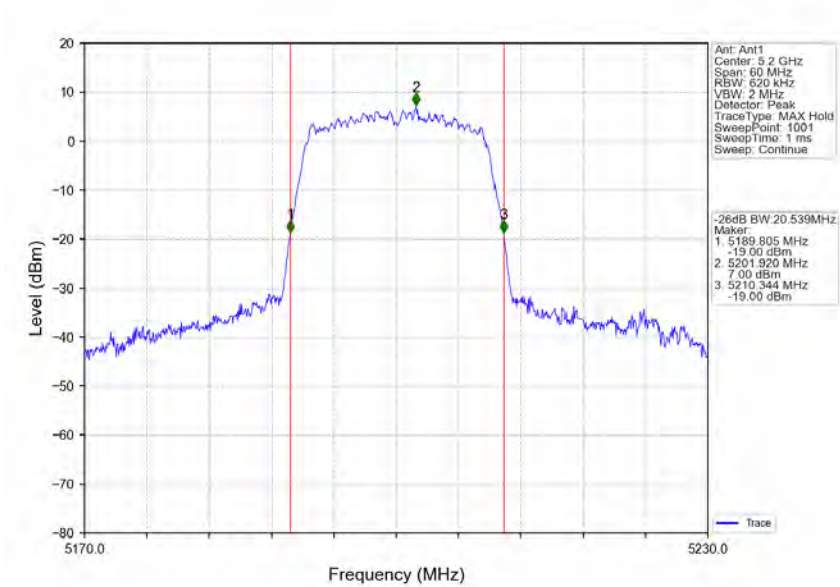
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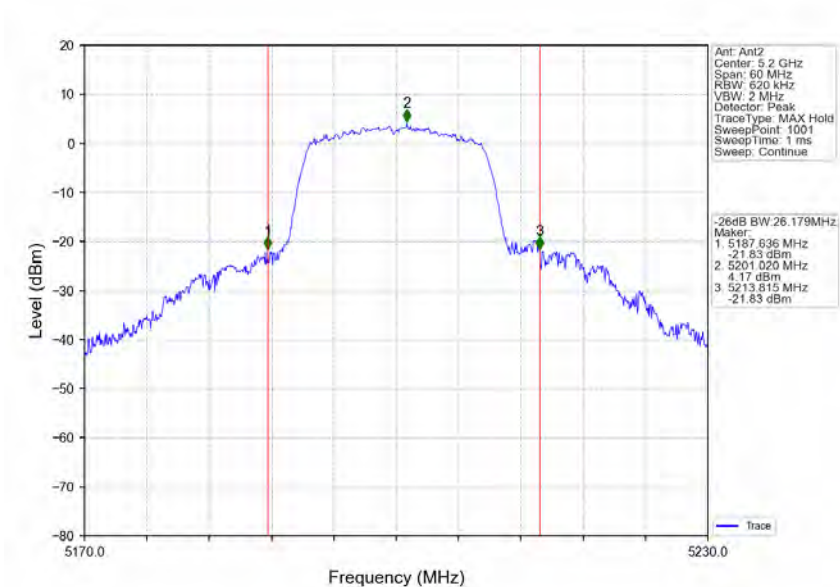
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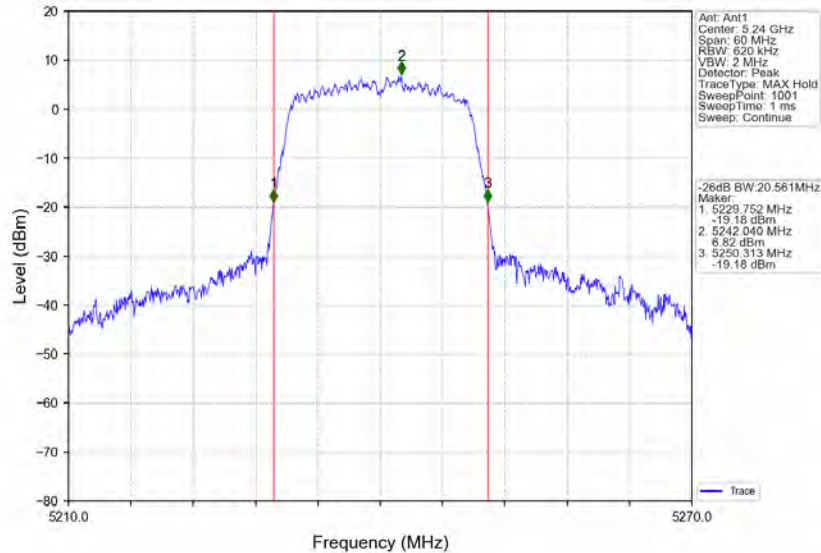
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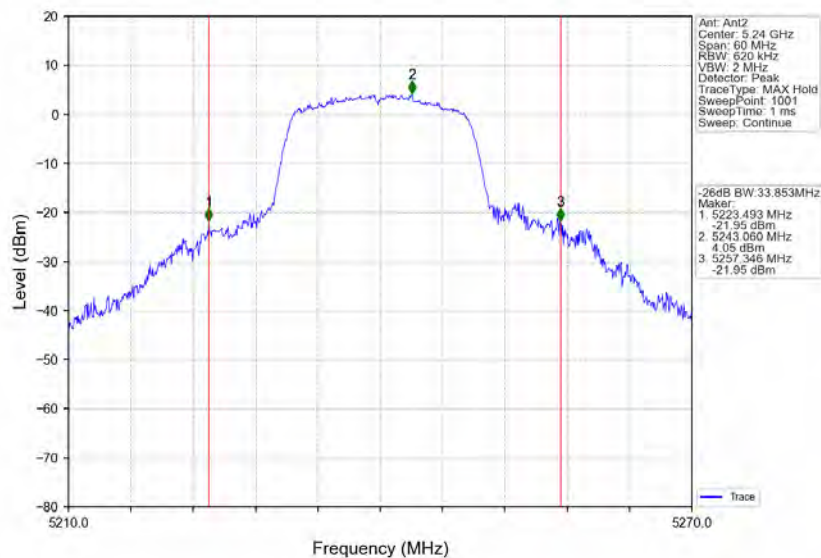
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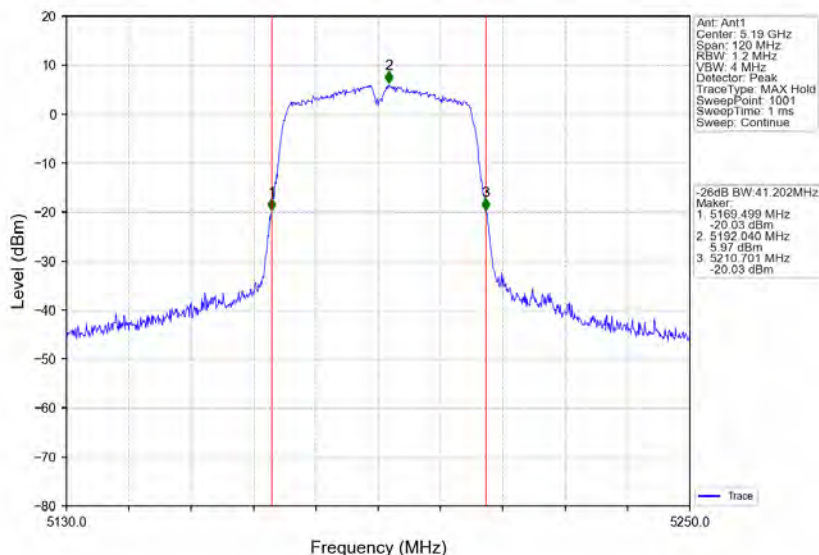
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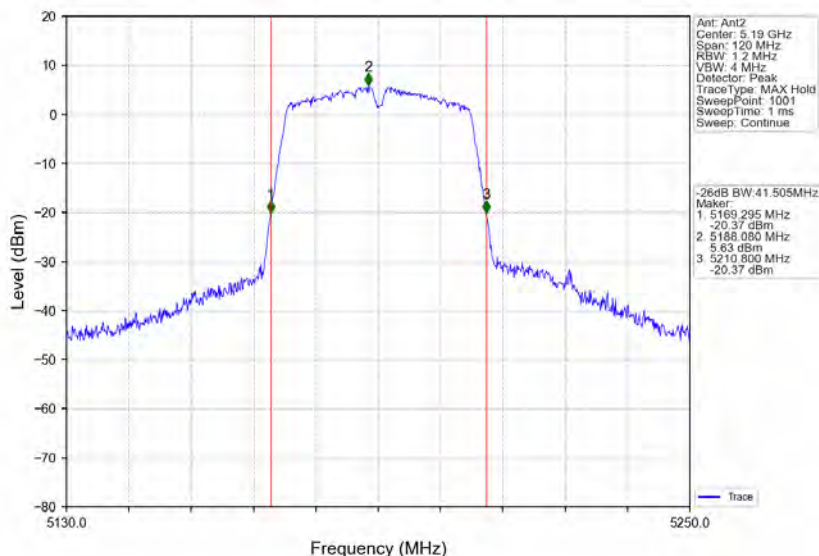
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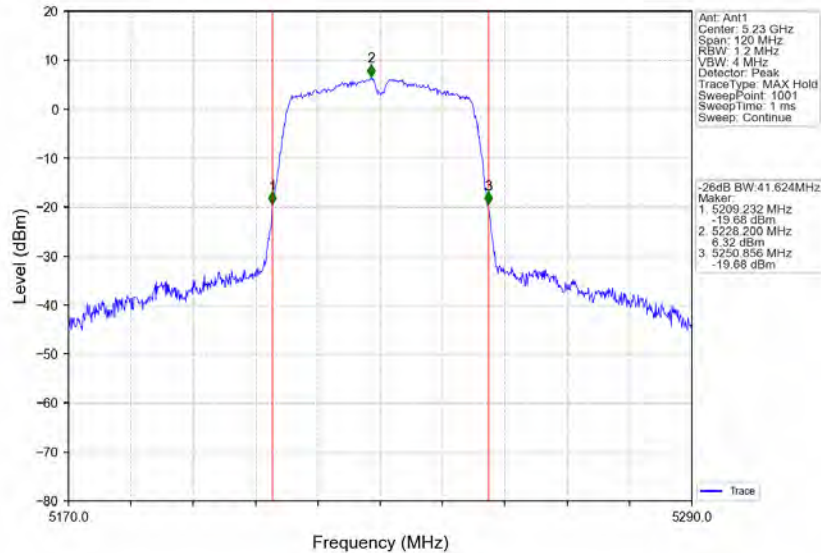
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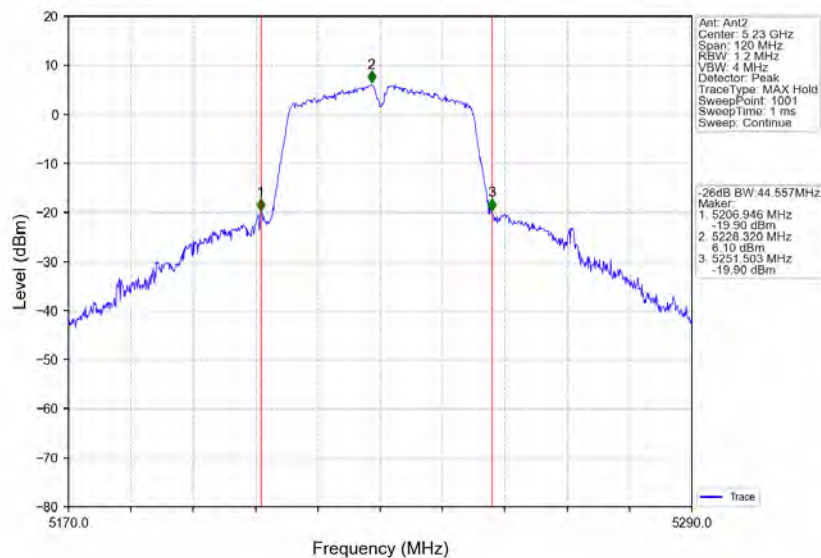
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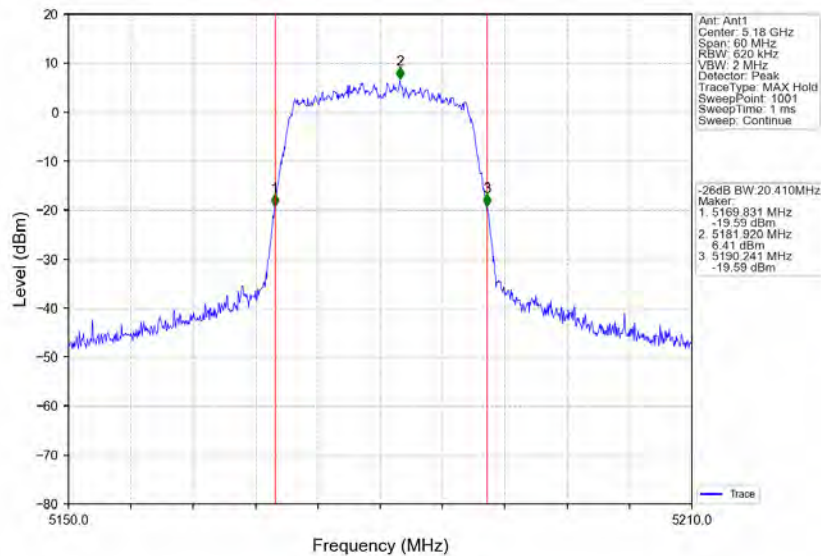
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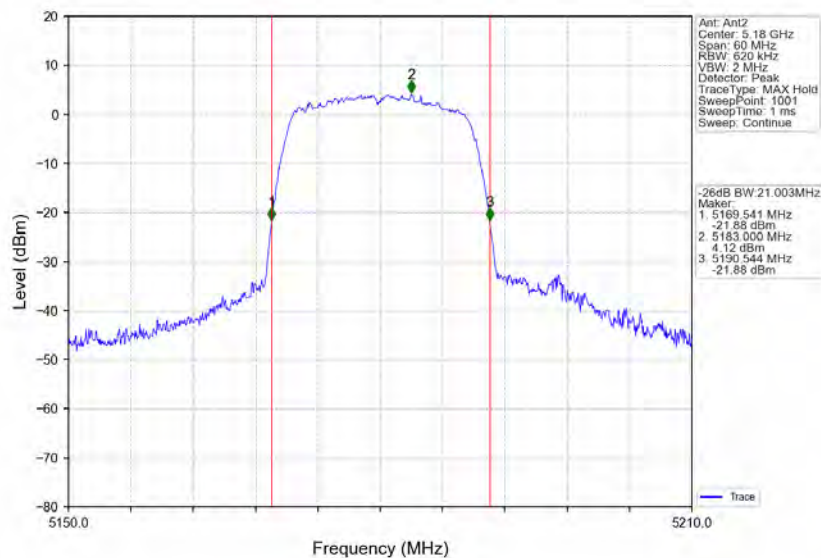
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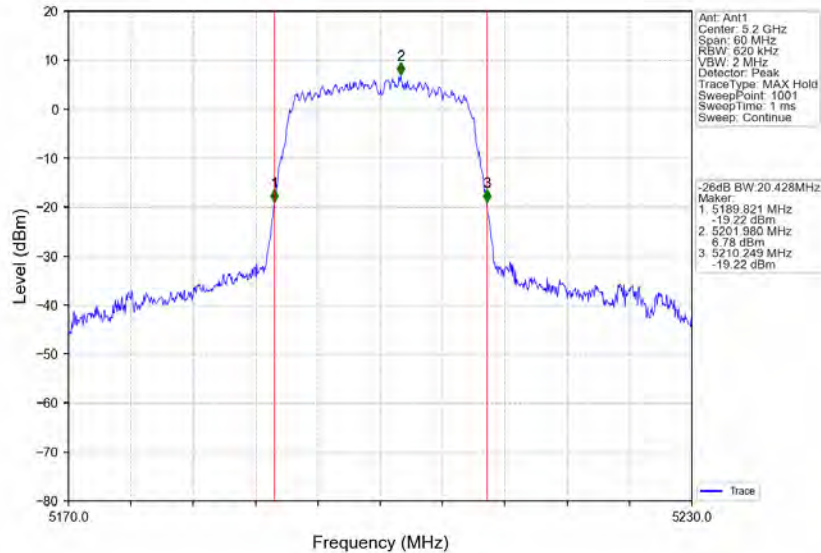
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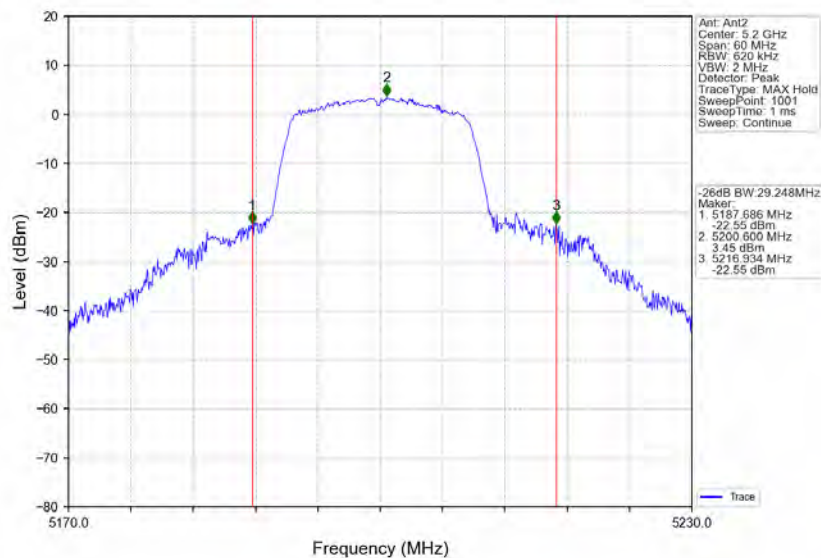
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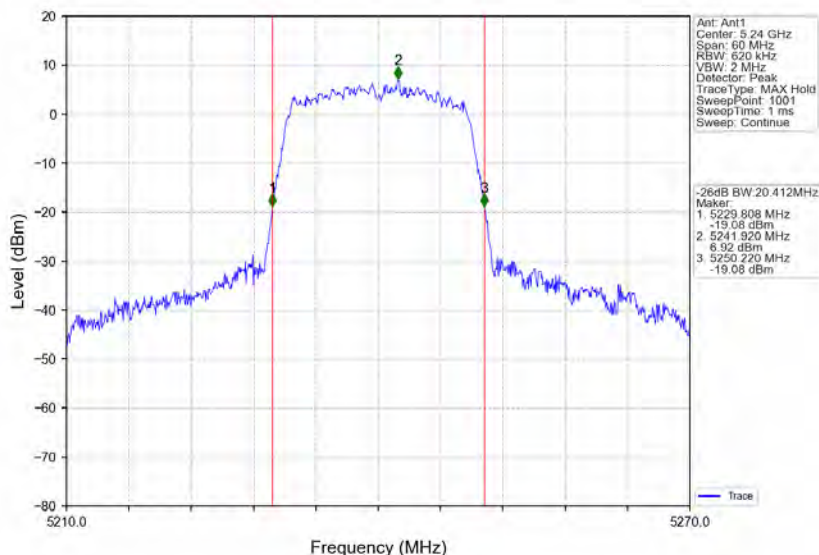
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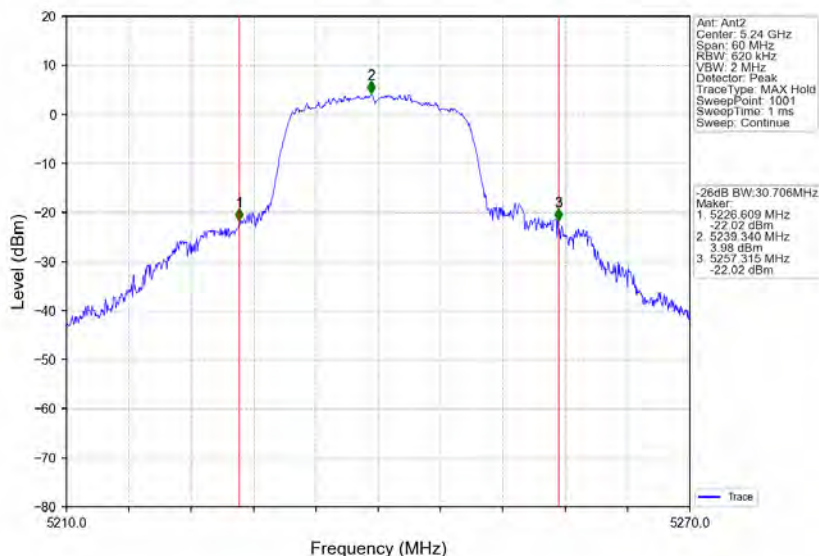
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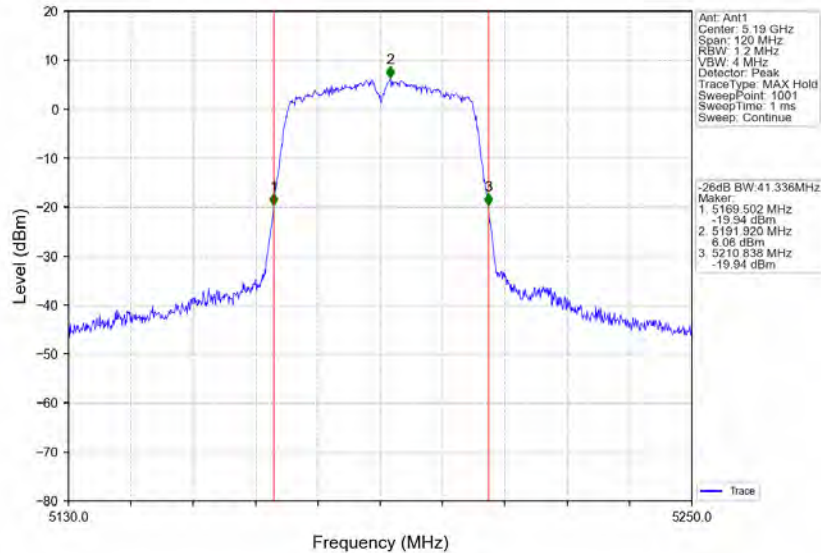
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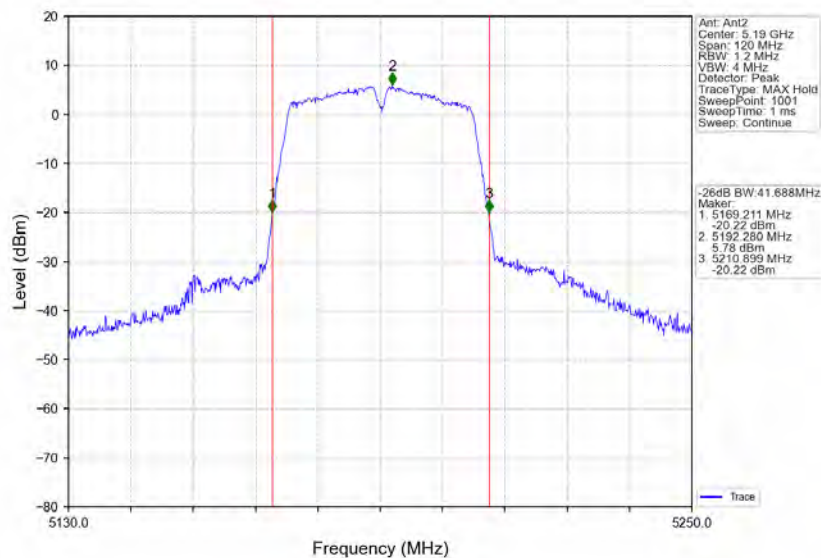
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802.11ac(VHT40)_LCH_5190MHz_Ant3_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant4_NTNV



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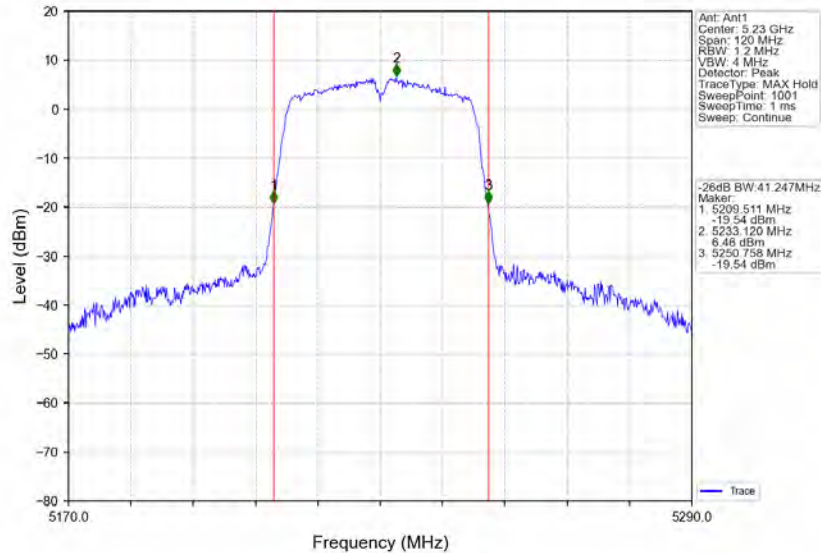
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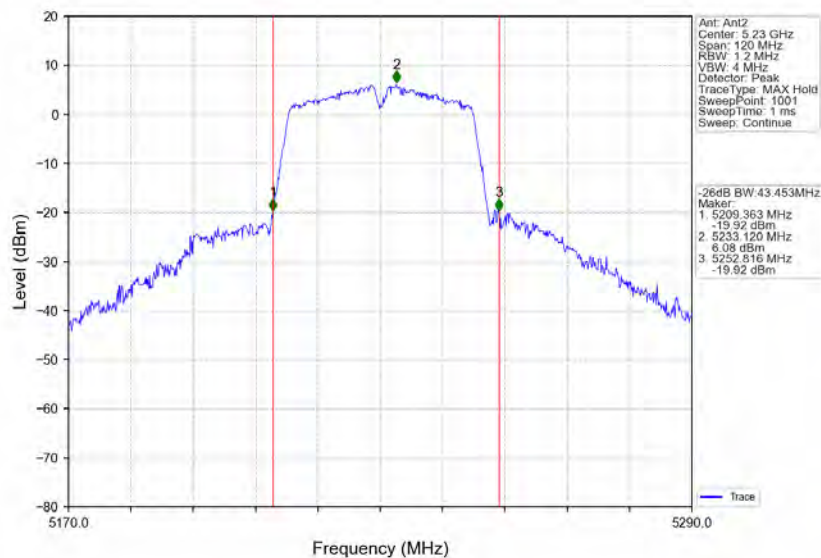
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802.11ac(VHT40)_HCH_5230MHz_Ant3_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant4_NTNV



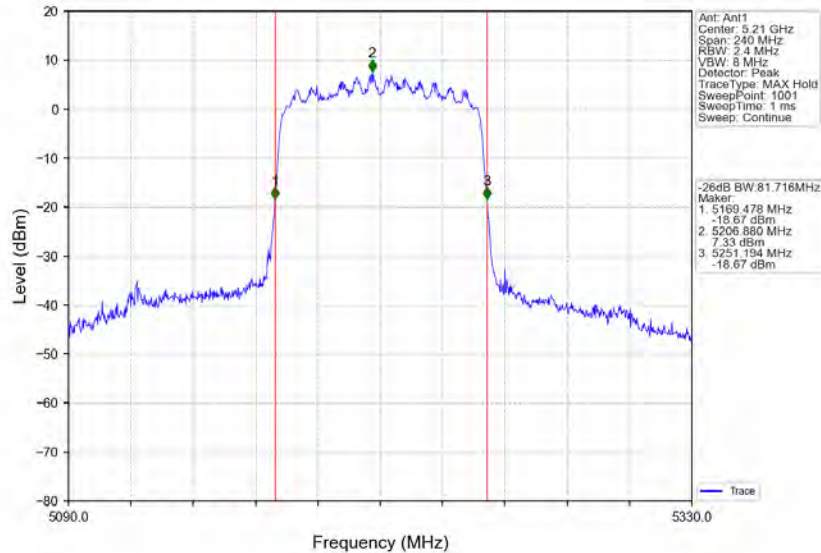
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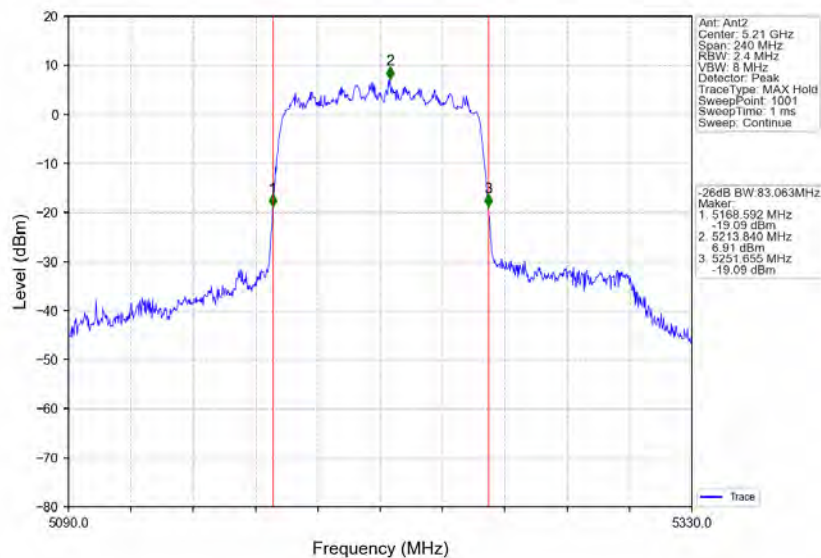
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802.11ac(VHT80)_MCH_5210MHz_Ant3_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant4_NTNV



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3. Maximum Conducted Output Power

3.1 Power for FCC

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT3	ANT4	MIMO	Limit	
802.11a	SISO	5180	12.49	12.56	/	<=23.98	Pass
		5200	12.58	12.03	/	<=23.98	Pass
		5240	12.75	12.42	/	<=23.98	Pass
		5745	12.69	13.34	/	<=30	Pass
		5785	12.54	13.55	/	<=30	Pass
		5825	13.00	13.32	/	<=30	Pass
802.11n (HT20)	MIMO	5180	9.51	9.52	12.53	<=23.98	Pass
		5200	9.70	9.10	12.42	<=23.98	Pass
		5240	9.81	9.58	12.71	<=23.98	Pass
		5745	9.96	10.14	13.06	<=30	Pass
		5785	9.89	10.48	13.21	<=30	Pass
		5825	10.39	10.22	13.32	<=30	Pass
802.11n (HT40)	MIMO	5190	9.76	9.61	12.70	<=23.98	Pass
		5230	10.03	9.78	12.92	<=23.98	Pass
		5755	10.33	11.11	13.75	<=30	Pass
		5795	10.27	11.05	13.69	<=30	Pass
802.11ac (VHT20)	MIMO	5180	9.48	9.55	12.53	<=23.98	Pass
		5200	9.68	9.13	12.42	<=23.98	Pass
		5240	9.78	9.58	12.69	<=23.98	Pass
		5745	9.95	10.33	13.15	<=30	Pass
		5785	9.90	10.48	13.21	<=30	Pass
		5825	10.35	10.32	13.35	<=30	Pass
802.11ac (VHT40)	MIMO	5190	9.79	9.65	12.73	<=23.98	Pass
		5230	10.05	9.73	12.90	<=23.98	Pass
		5755	10.29	11.18	13.77	<=30	Pass
		5795	10.26	11.06	13.69	<=30	Pass
802.11ac (VHT80)	MIMO	5210	9.23	9.04	12.15	<=23.98	Pass
		5775	9.01	9.86	12.47	<=30	Pass

Note1: For U-NII-1 Antenna Gain: Ant3: 2.5dBi; Ant4: 1.62dBi; Directional gain:5.09dBi.

For U-NII-3 Antenna Gain: Ant3: 2.46dBi; Ant4: 2.55dBi. Directional gain:5.51dBi.



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EIRP for IC

Test Result

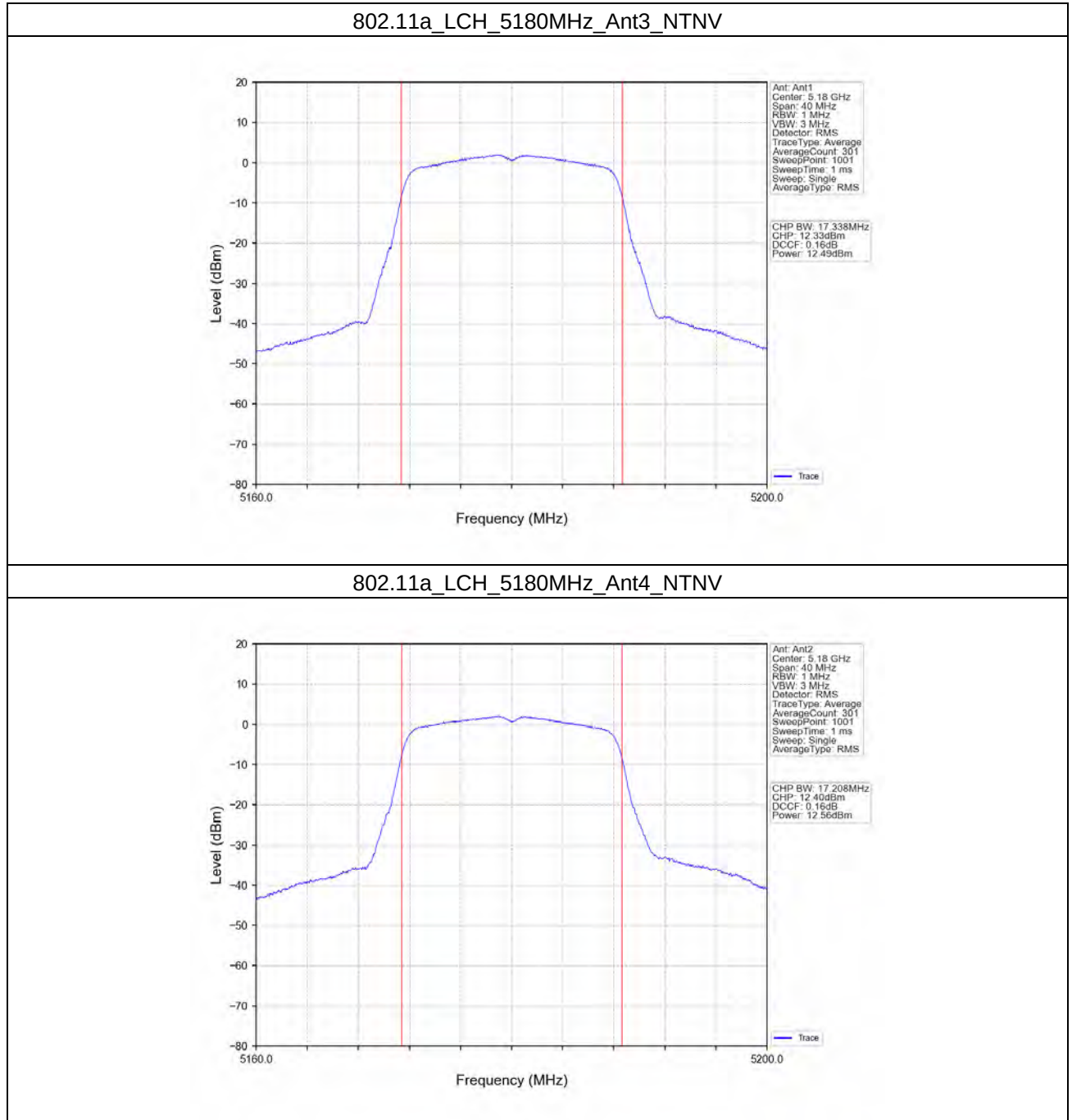
Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)				Verdict
			Ant3	Ant4	MIMO	Limit	
802.11a	SISO	5180	14.99	14.18	/	<=23.01	Pass
		5200	15.08	13.65	/	<=23.01	Pass
		5240	15.25	14.04	/	<=23.01	Pass
		5745	15.15	15.89	/	/	Pass
		5785	15.00	16.10	/	/	Pass
		5825	15.46	15.87	/	/	Pass
802.11n (HT20)	MIMO	5180	12.01	11.14	14.61	<=23.01	Pass
		5200	12.20	10.72	14.53	<=23.01	Pass
		5240	12.31	11.20	14.80	<=23.01	Pass
		5745	12.42	12.69	15.57	/	Pass
		5785	12.35	13.03	15.71	/	Pass
		5825	12.85	12.77	15.82	/	Pass
802.11n (HT40)	MIMO	5190	12.26	11.23	14.79	<=23.01	Pass
		5230	12.53	11.40	15.01	<=23.01	Pass
		5755	12.79	13.66	16.26	/	Pass
		5795	12.73	13.60	16.20	/	Pass
802.11ac (VHT20)	MIMO	5180	11.98	11.17	14.60	<=23.01	Pass
		5200	12.18	10.75	14.53	<=23.01	Pass
		5240	12.28	11.20	14.78	<=23.01	Pass
		5745	12.41	12.88	15.66	/	Pass
		5785	12.36	13.03	15.72	/	Pass
		5825	12.81	12.87	15.85	/	Pass
802.11ac (VHT40)	MIMO	5190	12.29	11.27	14.82	<=23.01	Pass
		5230	12.55	11.35	15.00	<=23.01	Pass
		5755	12.75	13.73	16.28	/	Pass
		5795	12.72	13.61	16.20	/	Pass
802.11ac (VHT80)	MIMO	5210	11.73	10.66	14.24	<=23.01	Pass
		5775	11.47	12.41	14.98	/	Pass

Note1: For U-NII-1 Antenna Gain: Ant3: 2.5dBi; Ant4: 1.62dBi; Directional gain:5.09dBi.
For U-NII-3 Antenna Gain: Ant3: 2.46dBi; Ant4: 2.55dBi. Directional gain:5.51dBi.
Note2: E.I.R.P = Measured Power + Antenna Gain



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3.1.2 Test Graph



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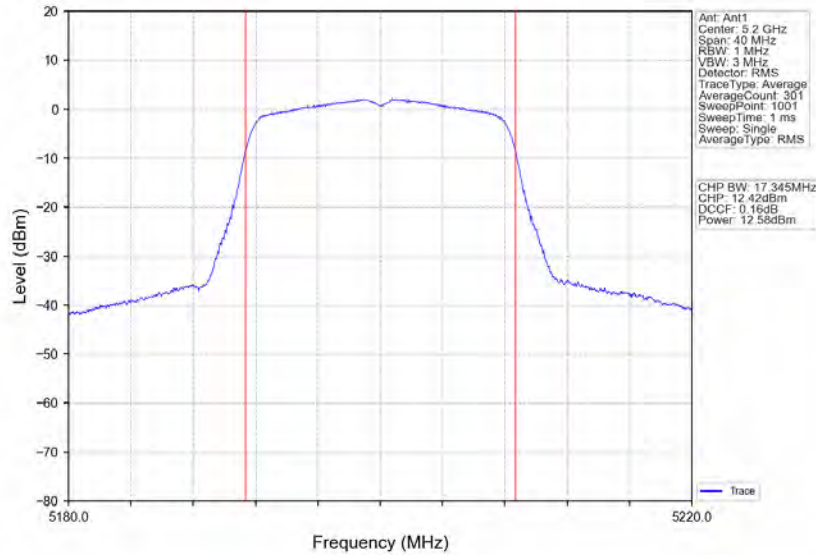
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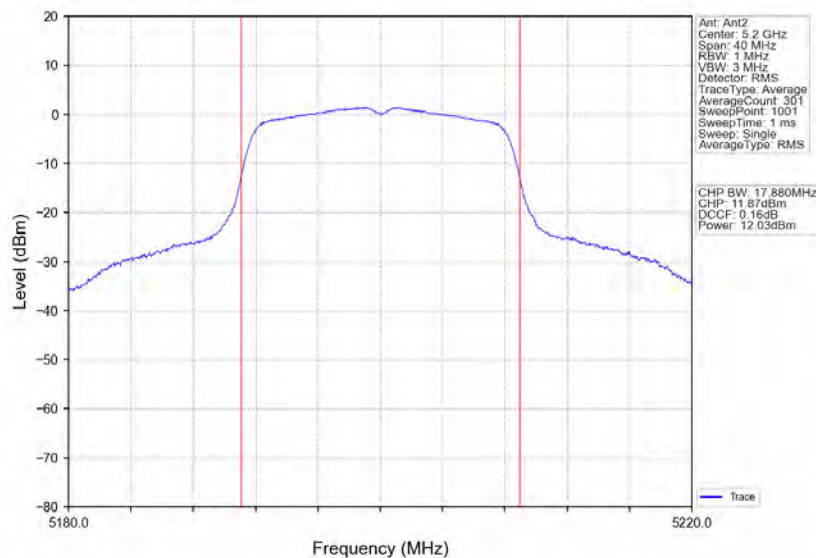
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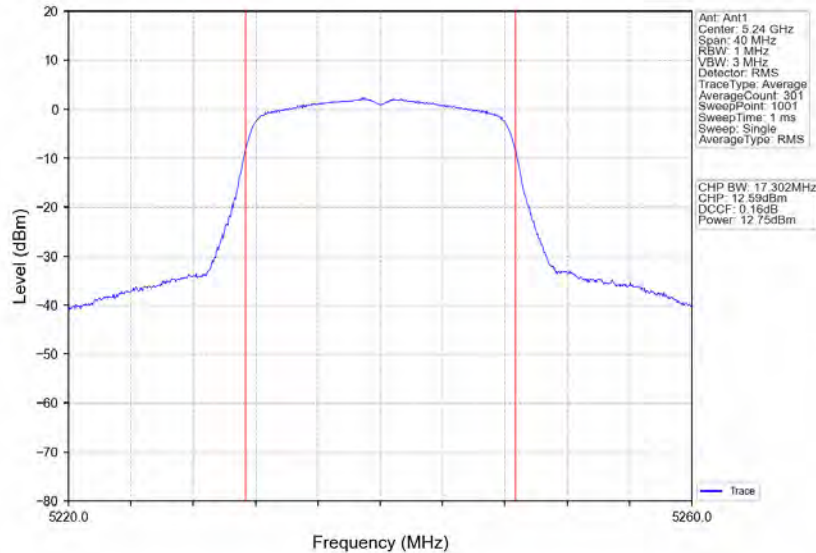
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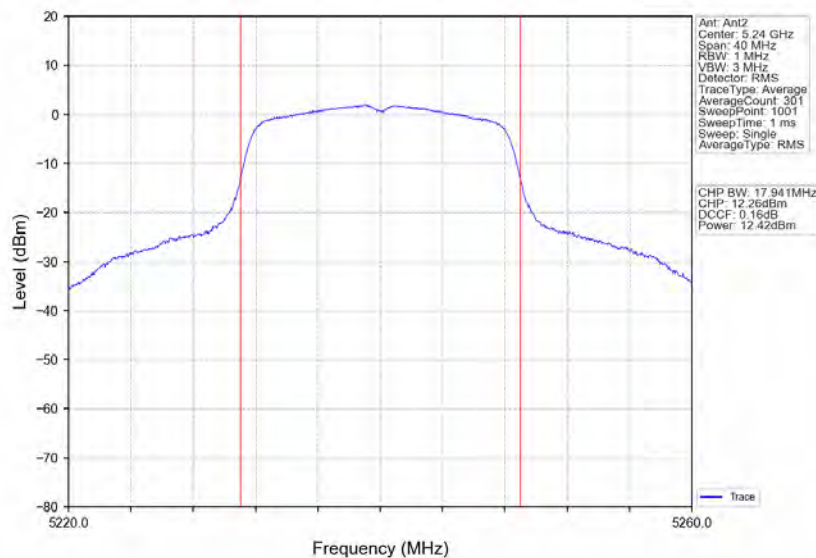
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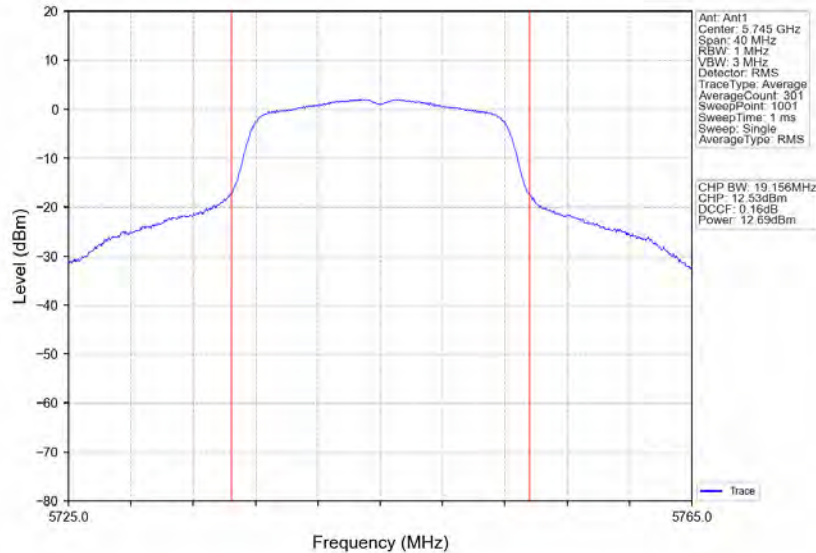
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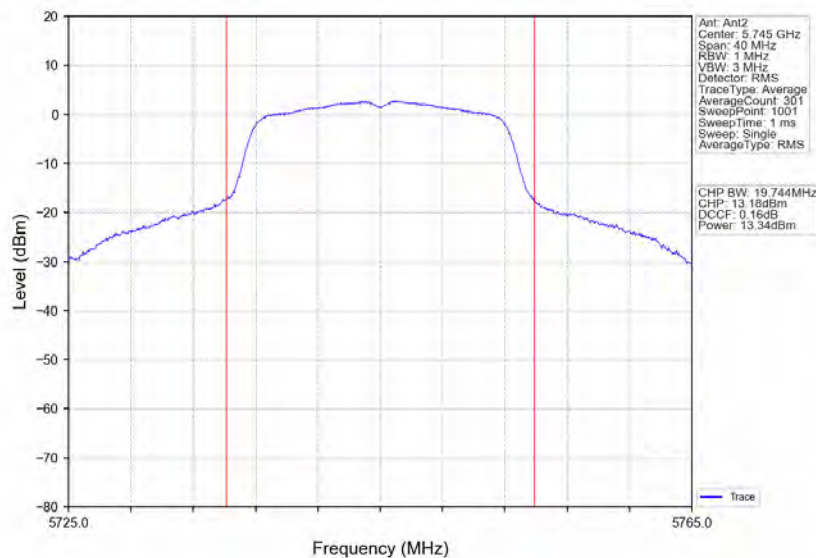
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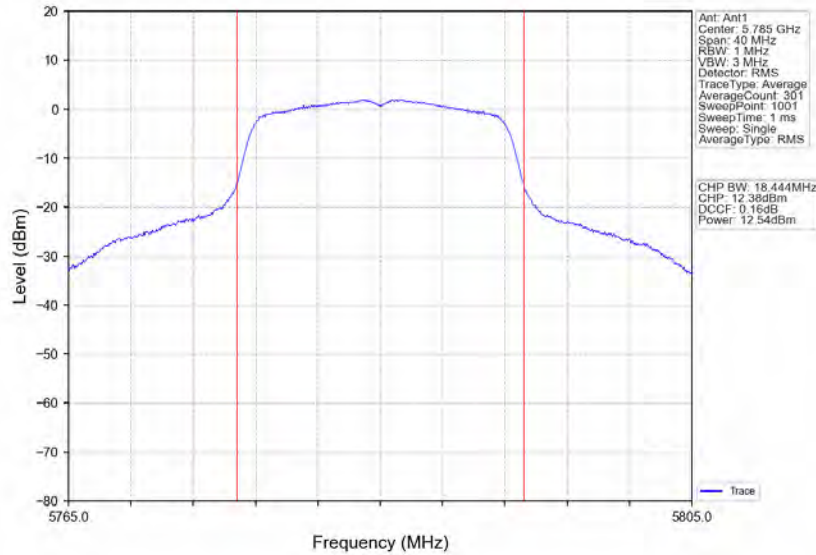
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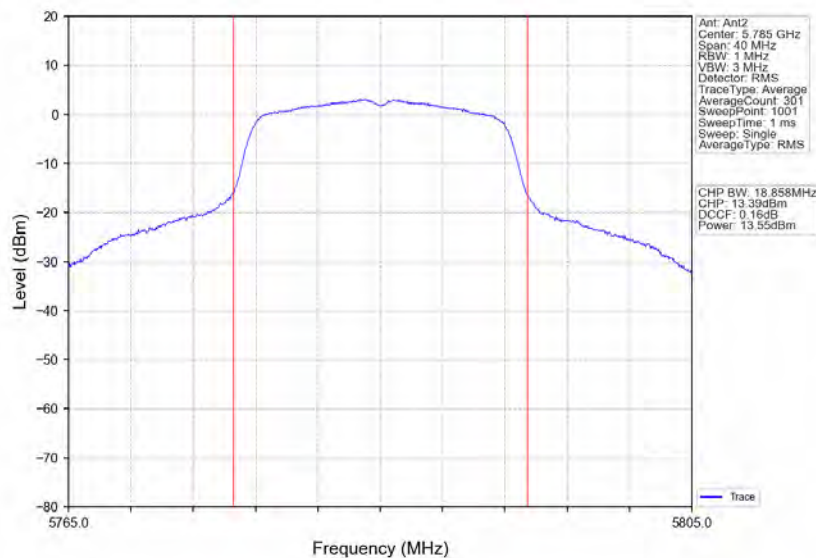
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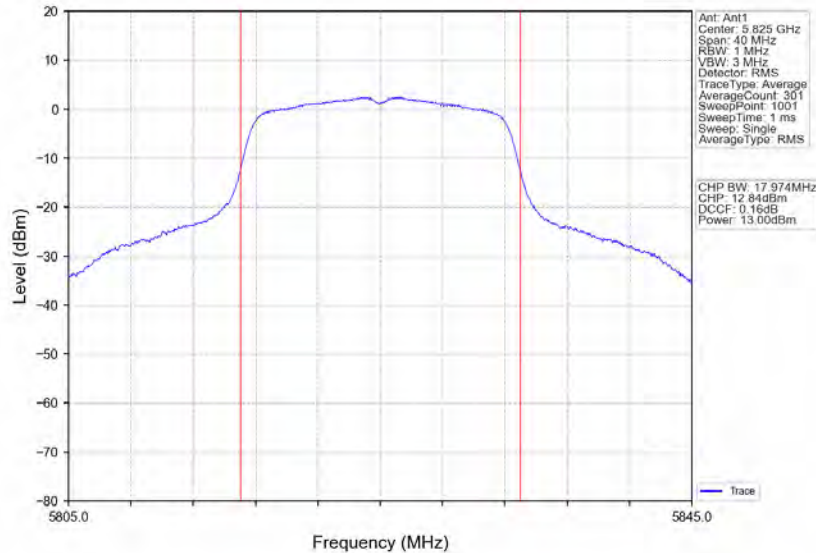
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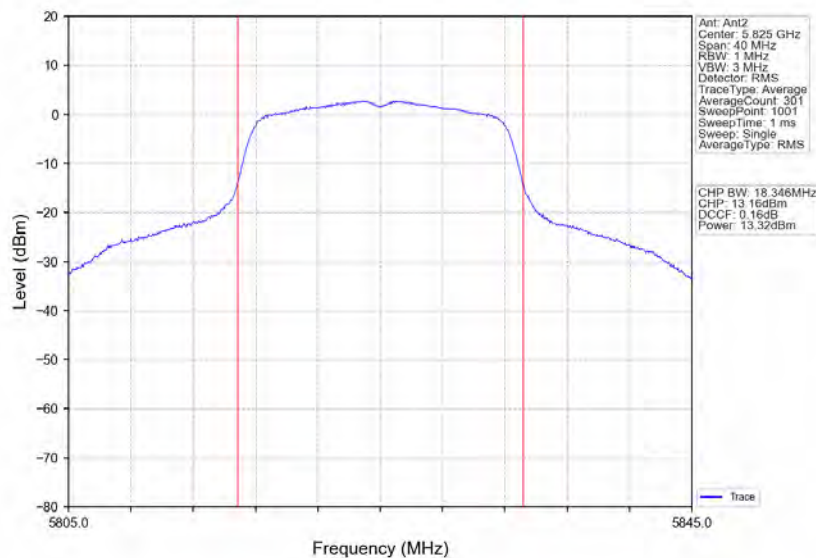
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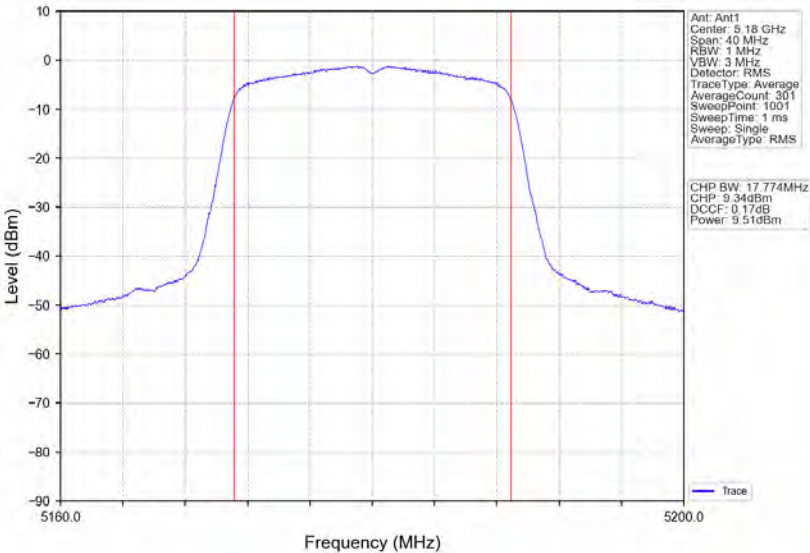
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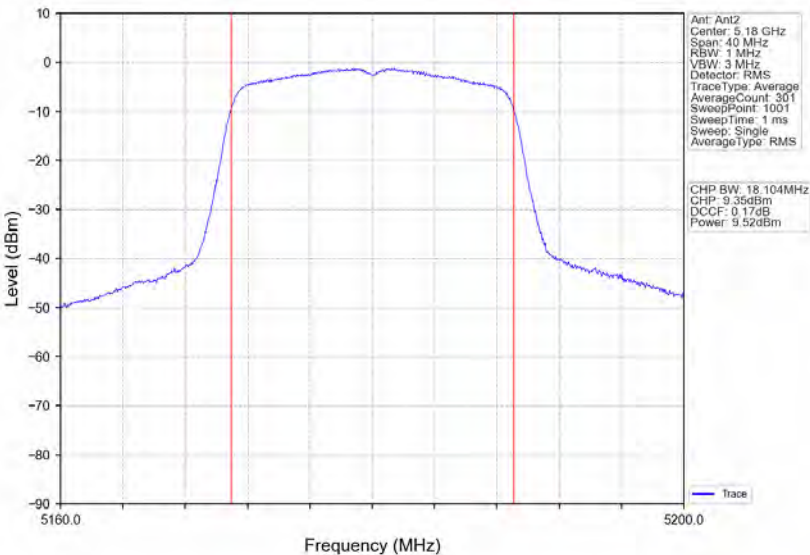
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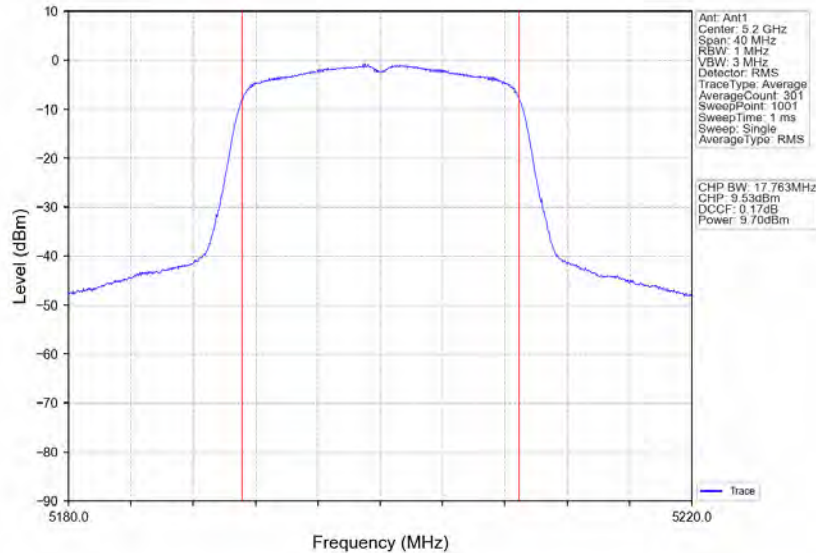
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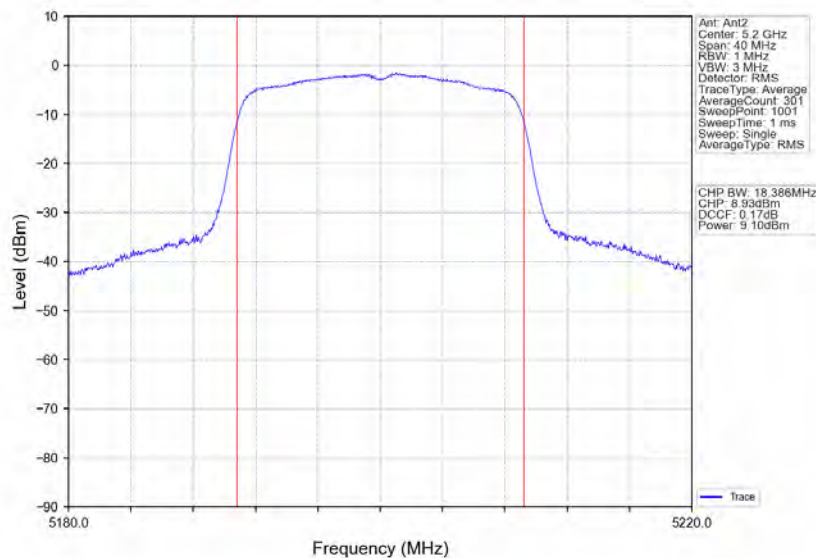
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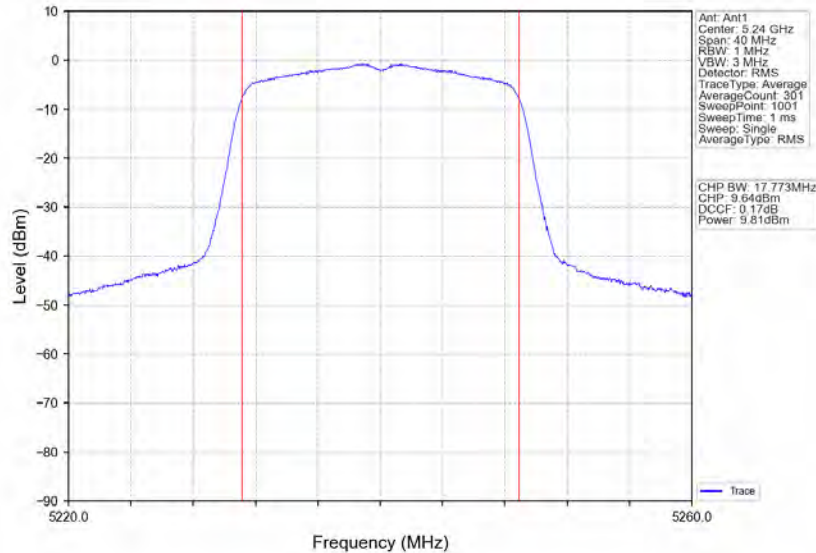
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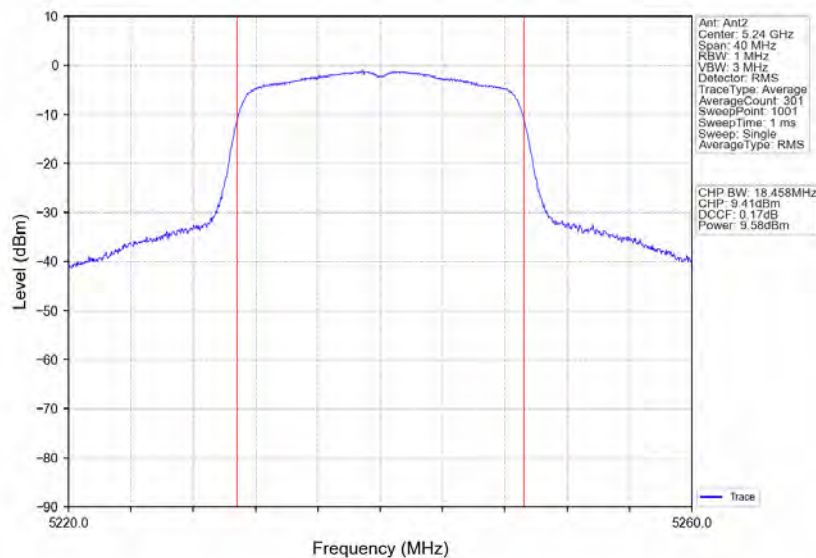
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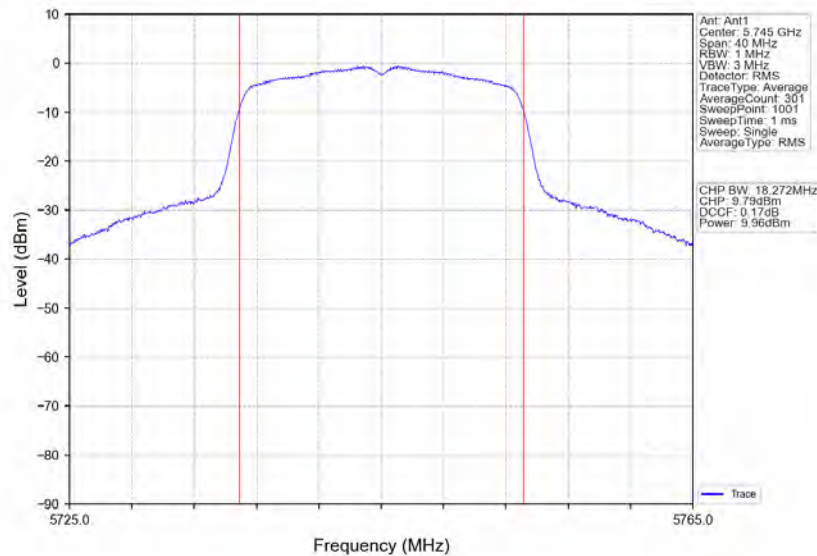
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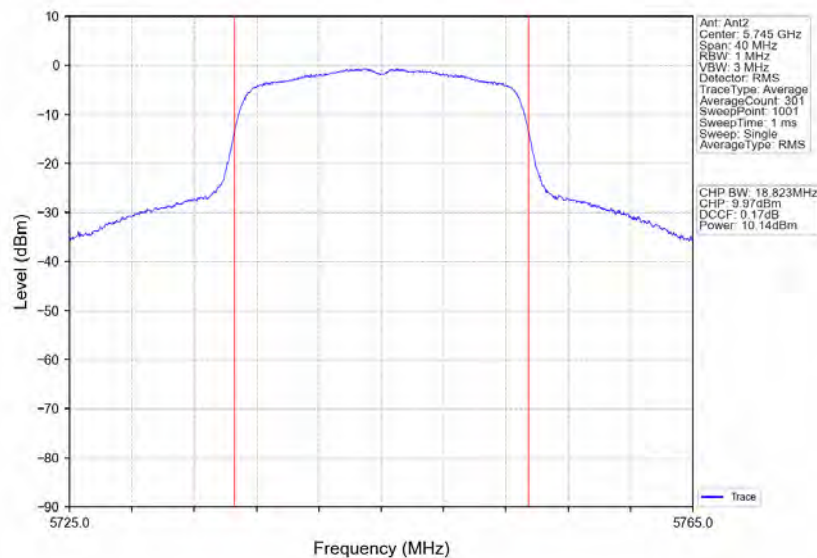
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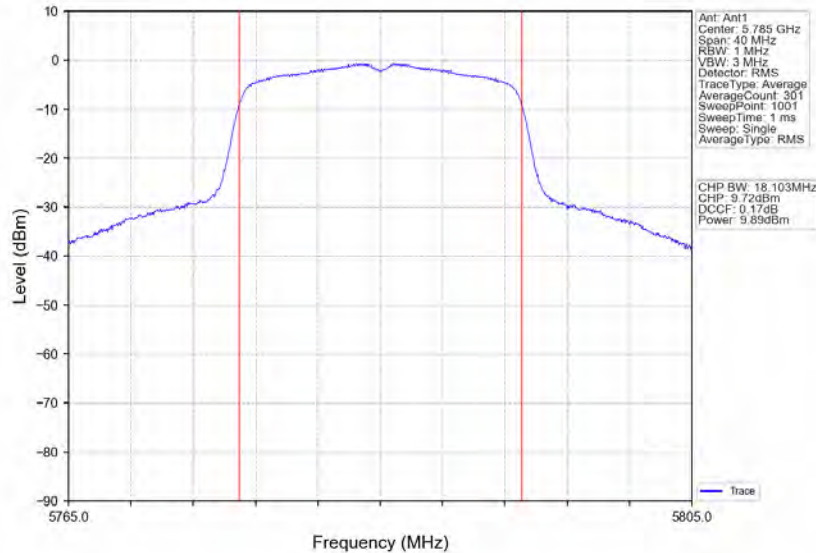
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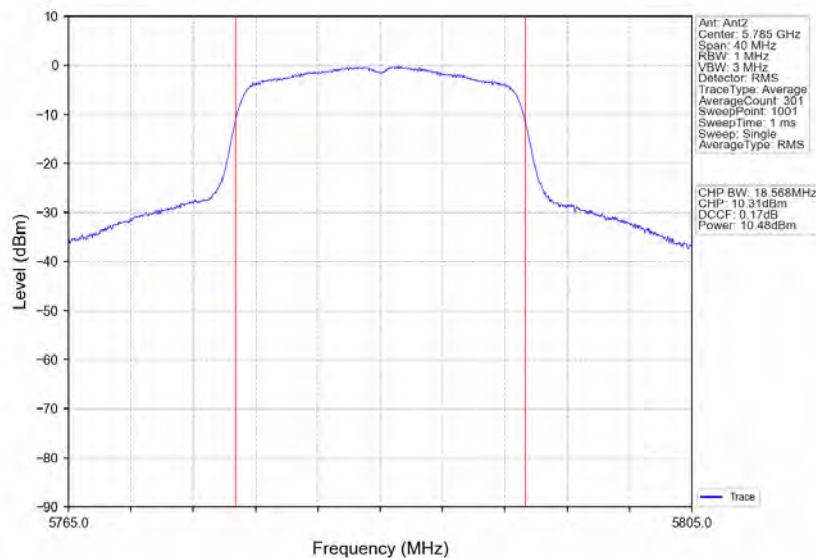
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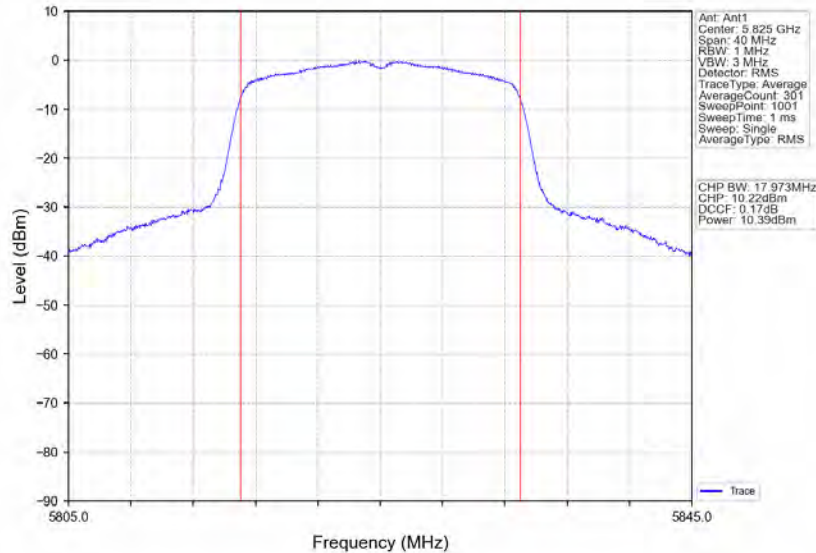
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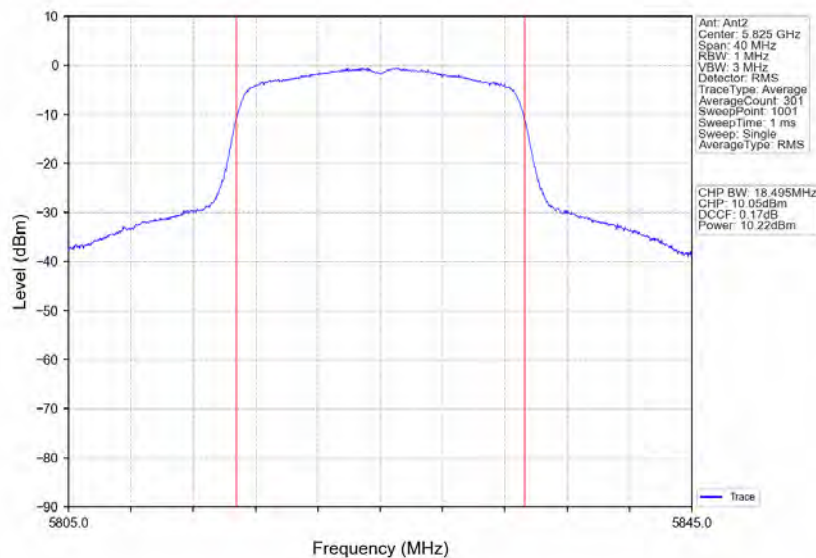
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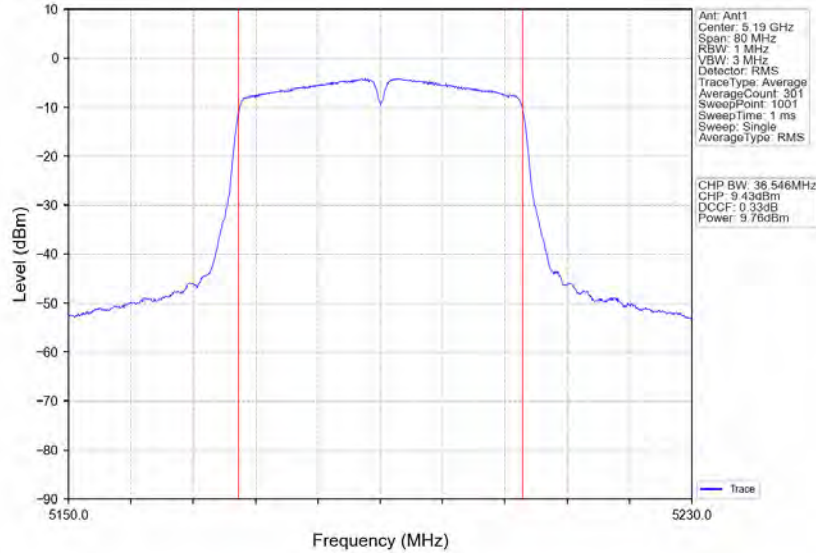
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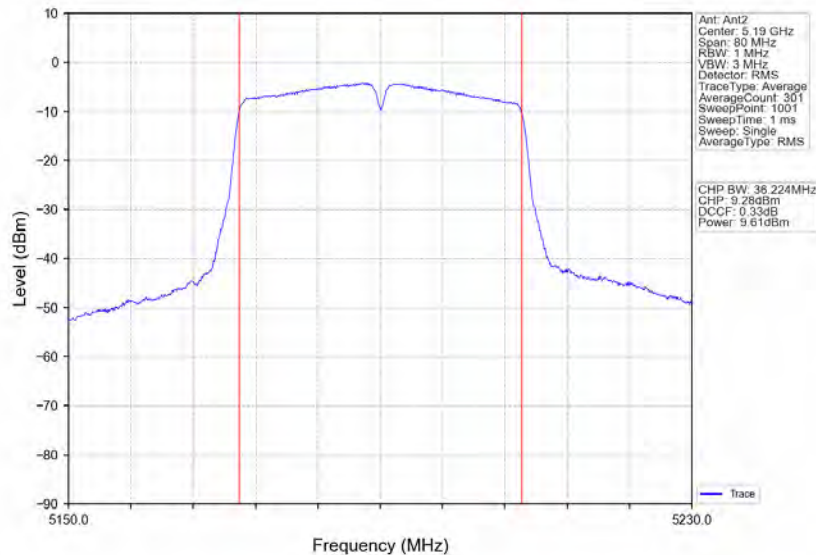
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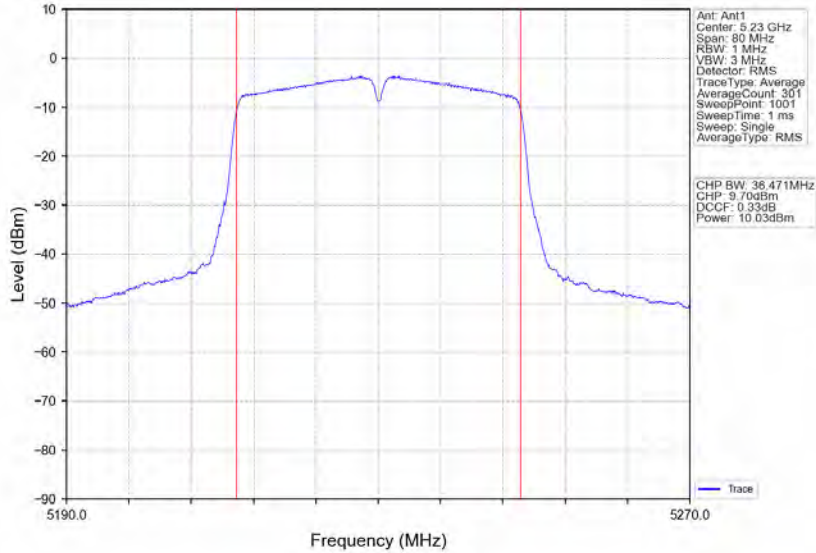
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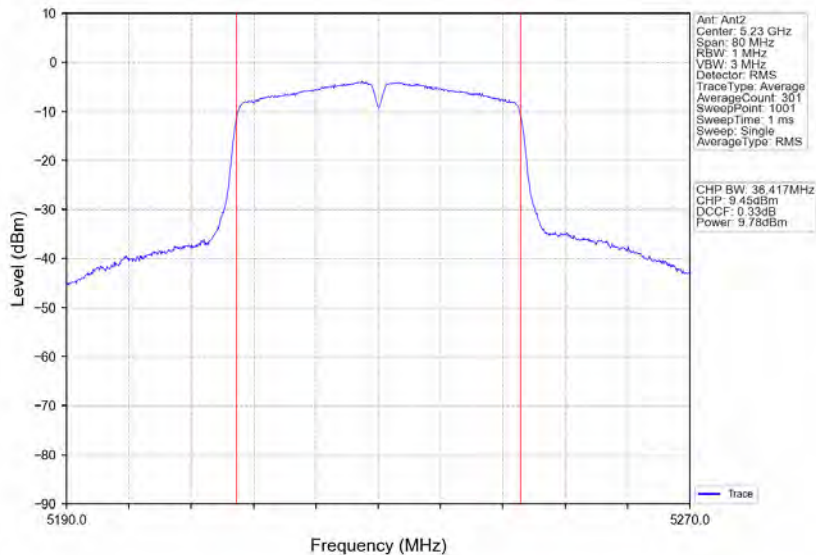
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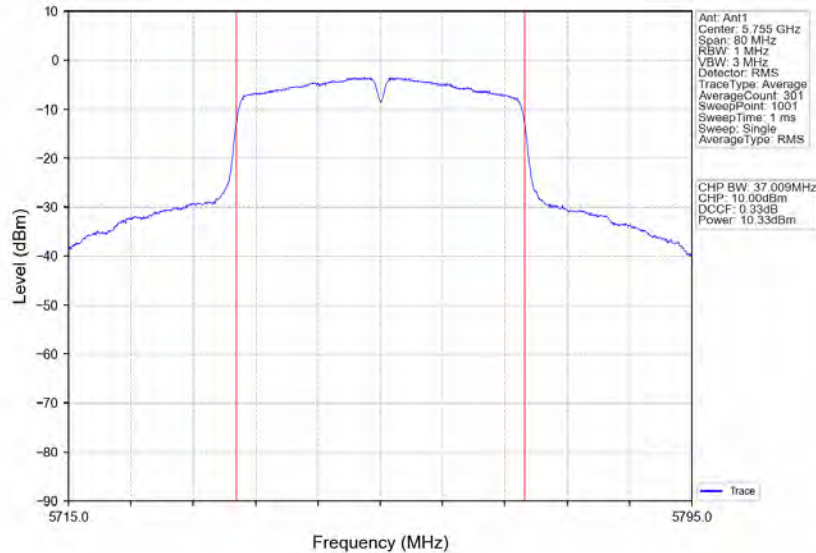
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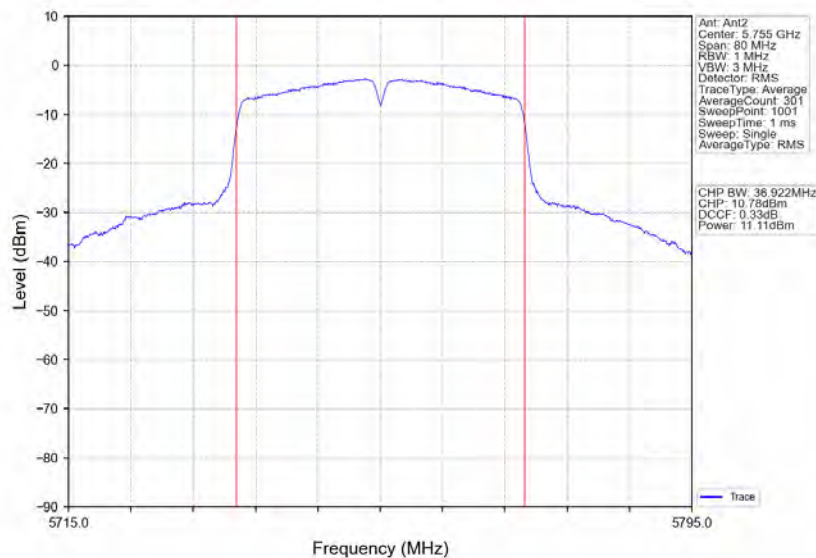
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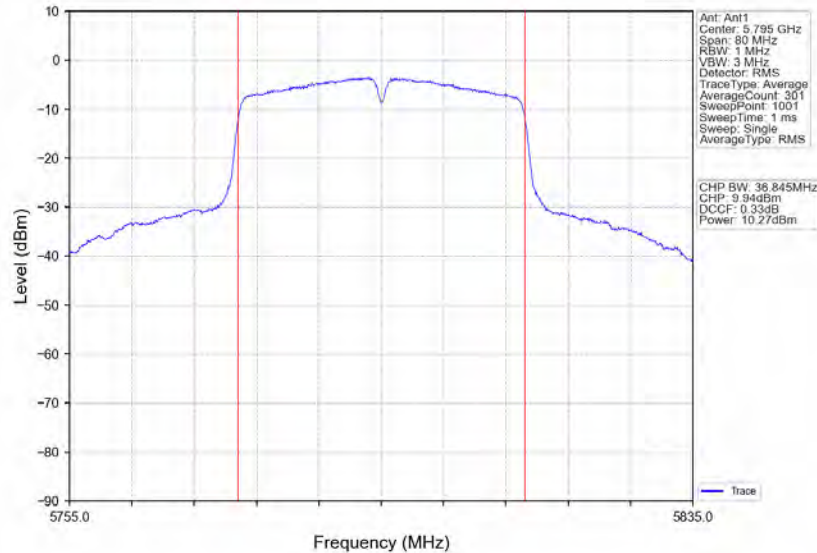
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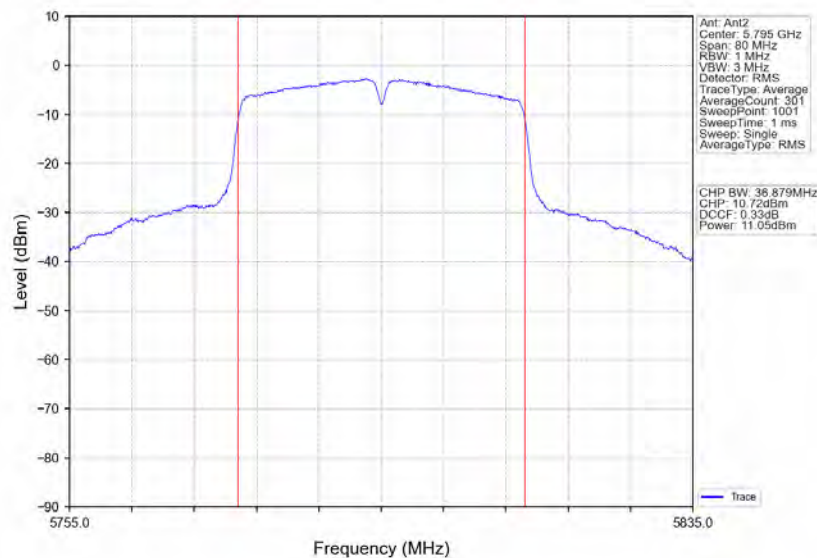
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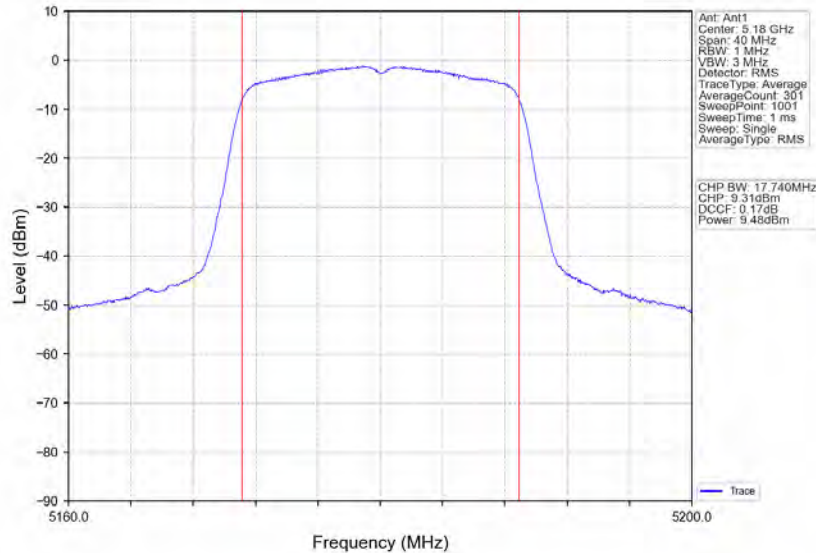
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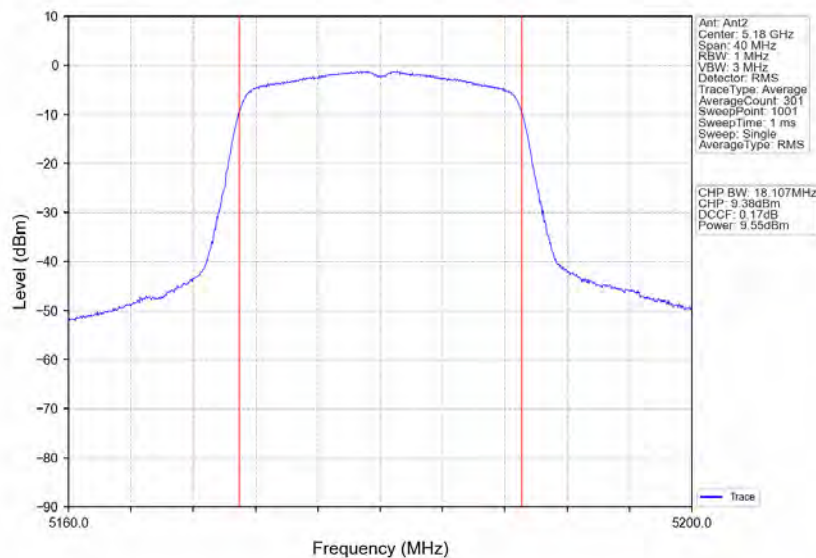
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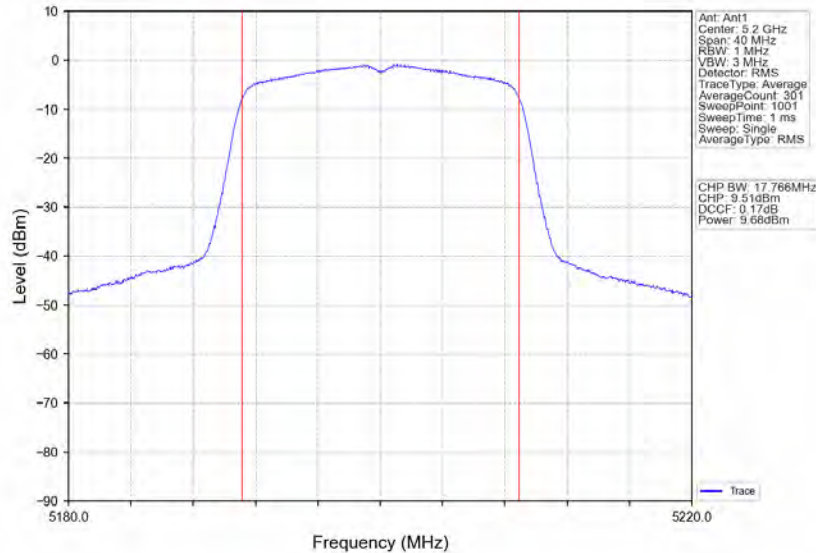
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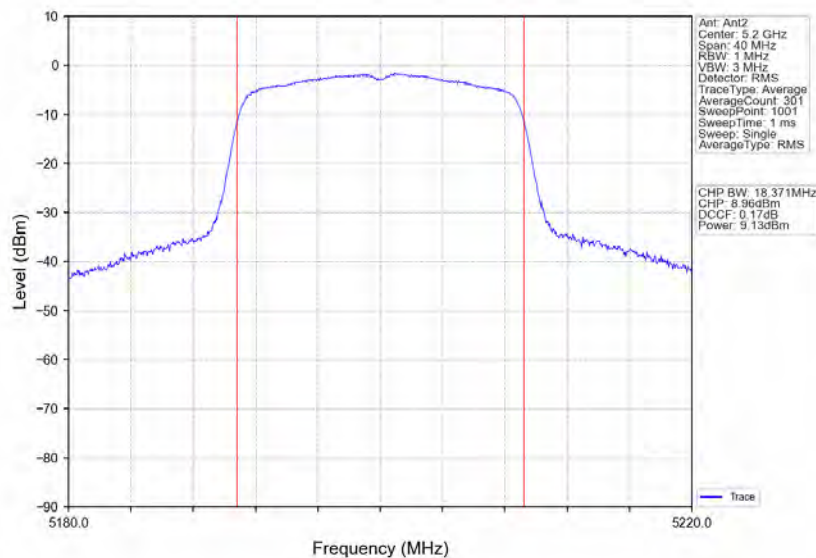
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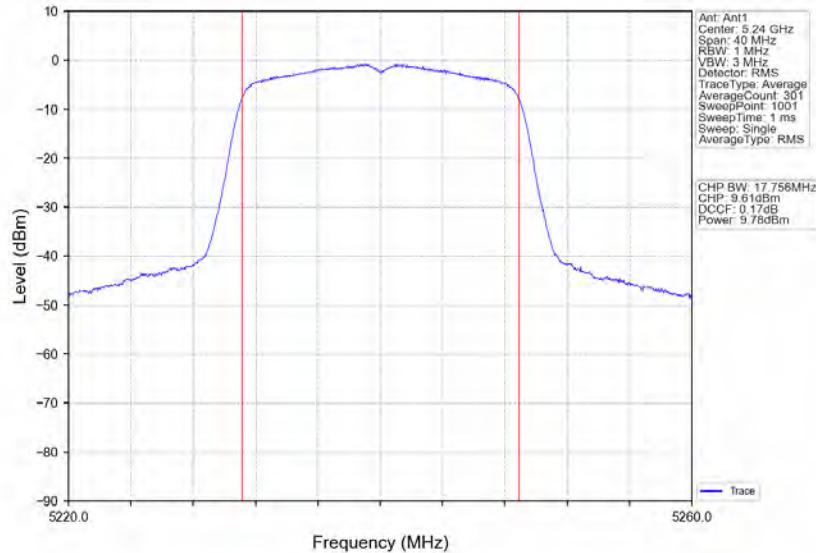
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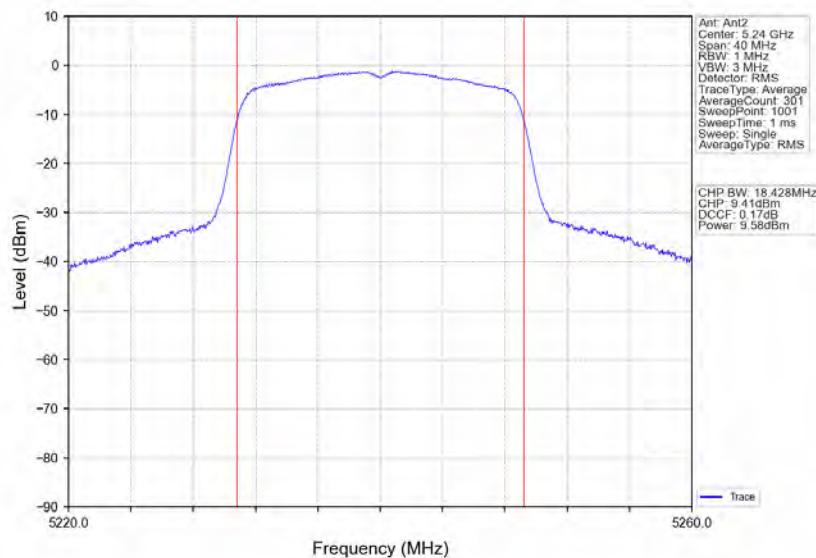
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802.11ac(VHT20)_HCH_5240MHz_Ant3_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant4_NTNV



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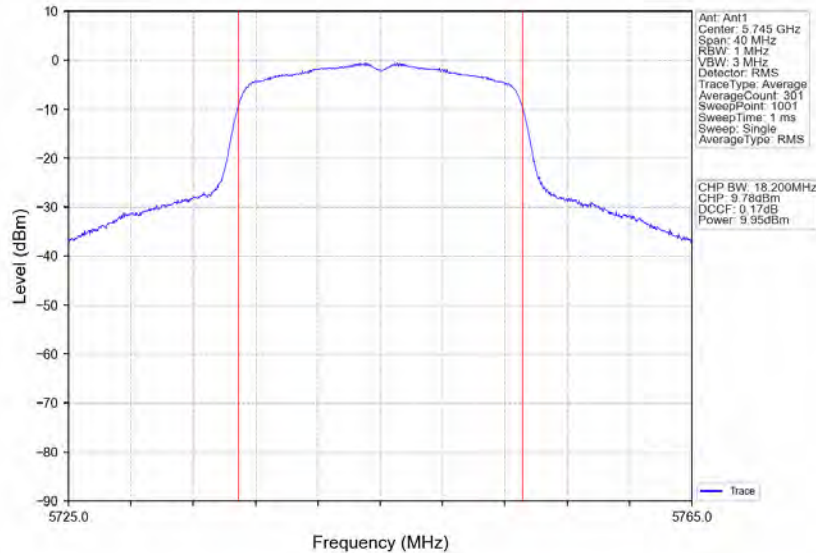
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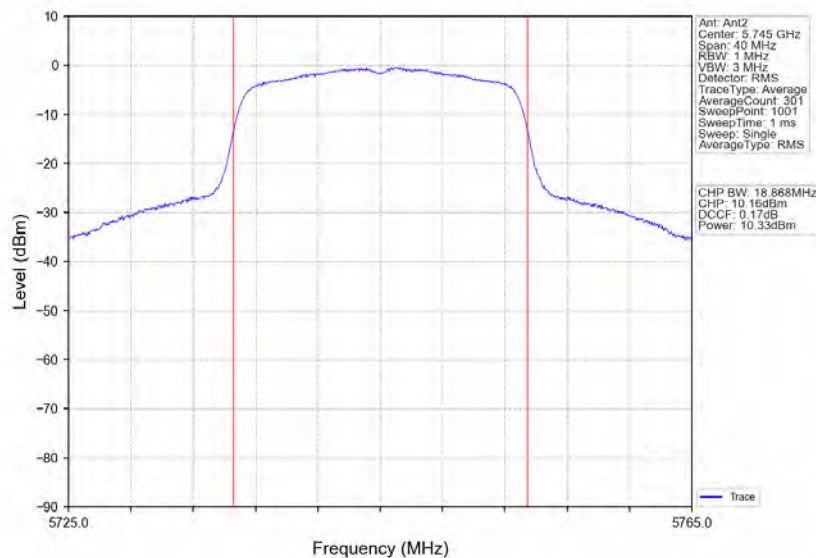
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802.11ac(VHT20)_LCH_5745MHz_Ant3_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant4_NTNV



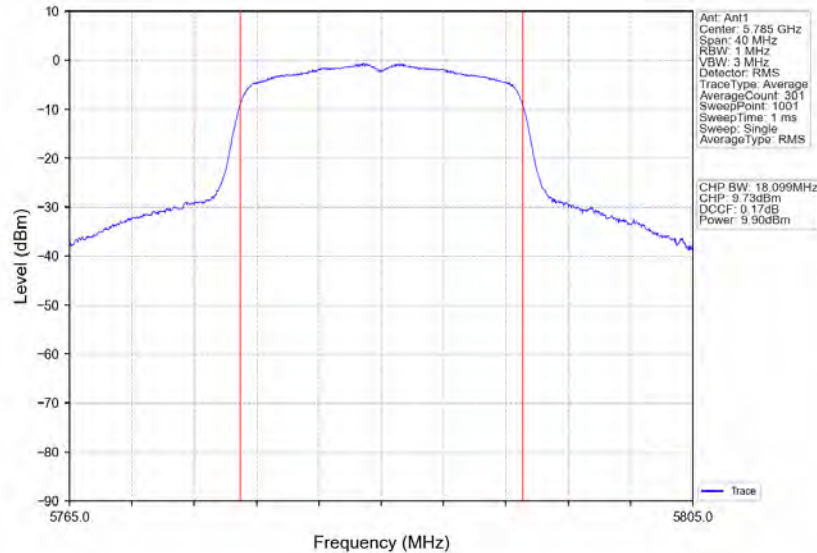
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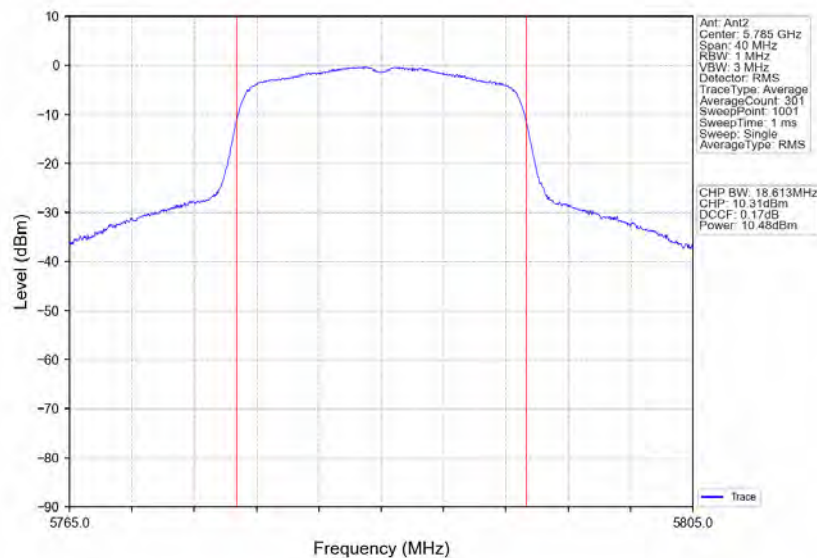
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802.11ac(VHT20)_MCH_5785MHz_Ant3_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant4_NTNV



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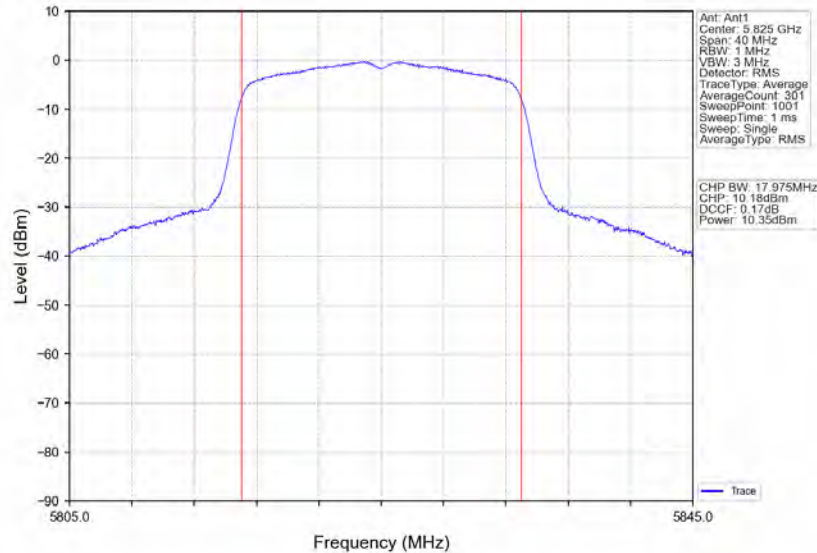
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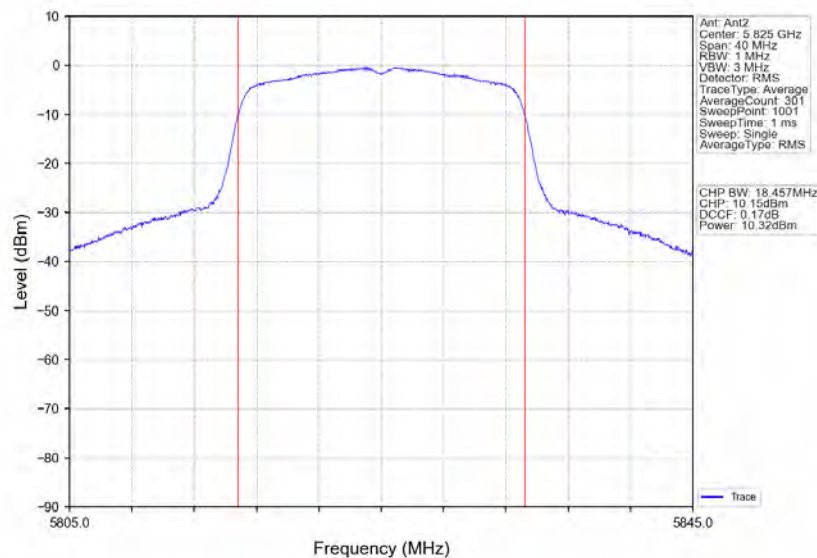
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802.11ac(VHT20)_HCH_5825MHz_Ant3_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant4_NTNV



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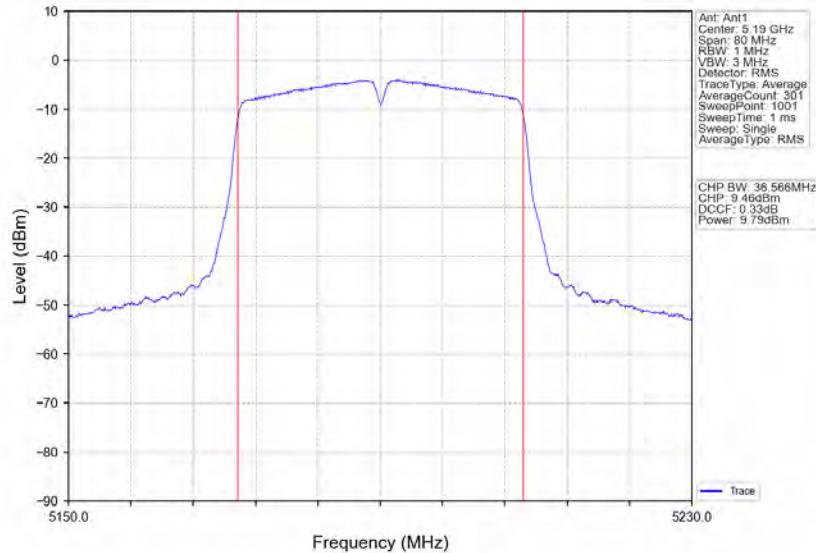
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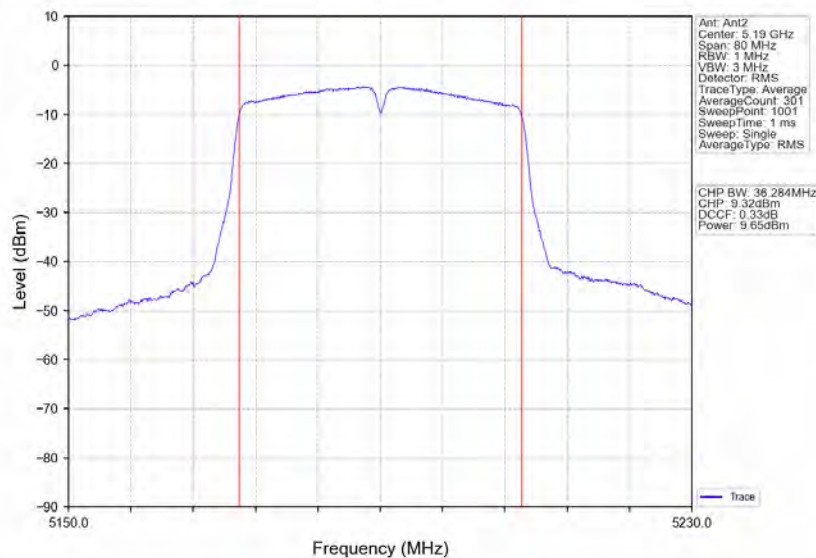
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802.11ac(VHT40)_LCH_5190MHz_Ant3_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant4_NTNV



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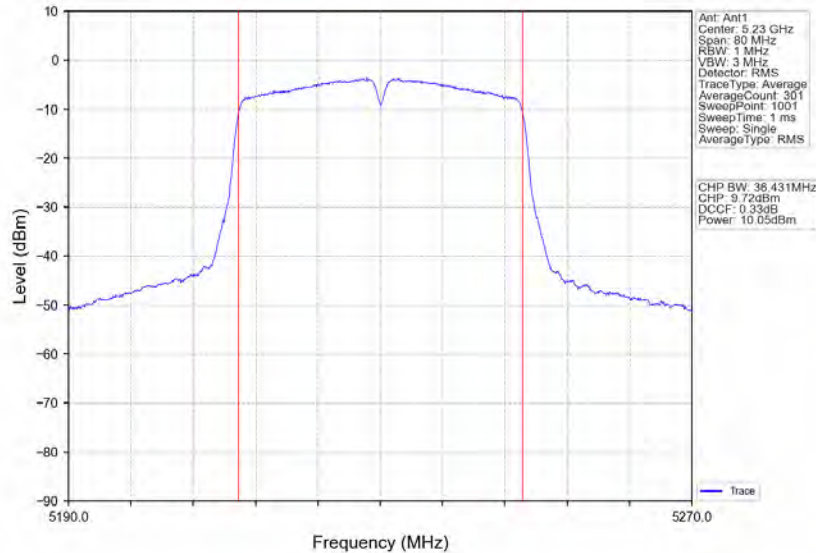
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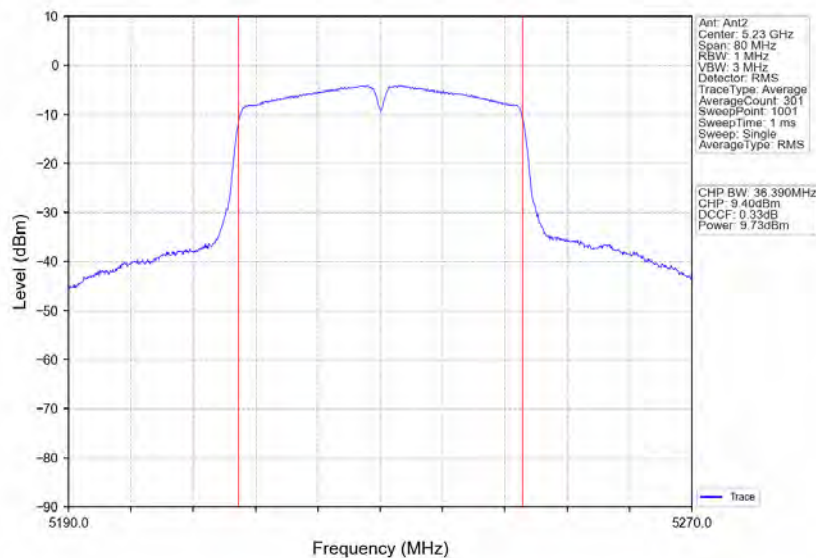
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802.11ac(VHT40)_HCH_5230MHz_Ant3_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant4_NTNV



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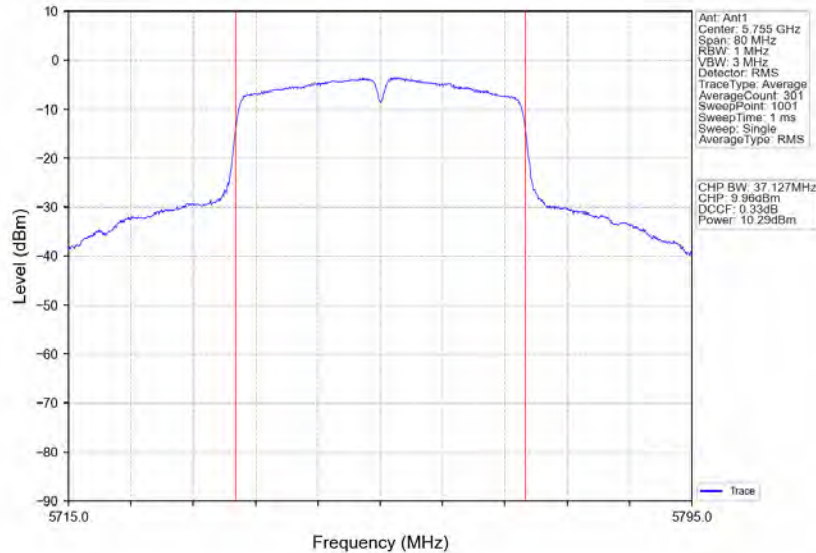
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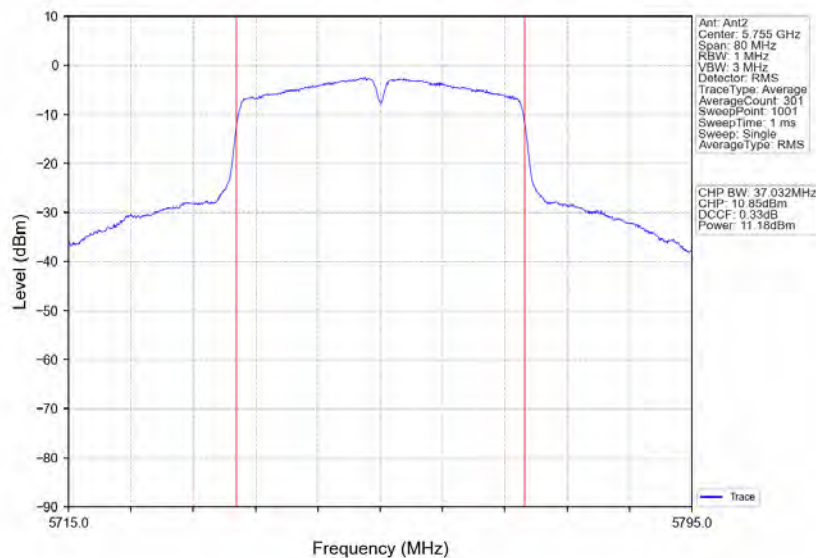
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802.11ac(VHT40)_LCH_5755MHz_Ant3_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant4_NTNV



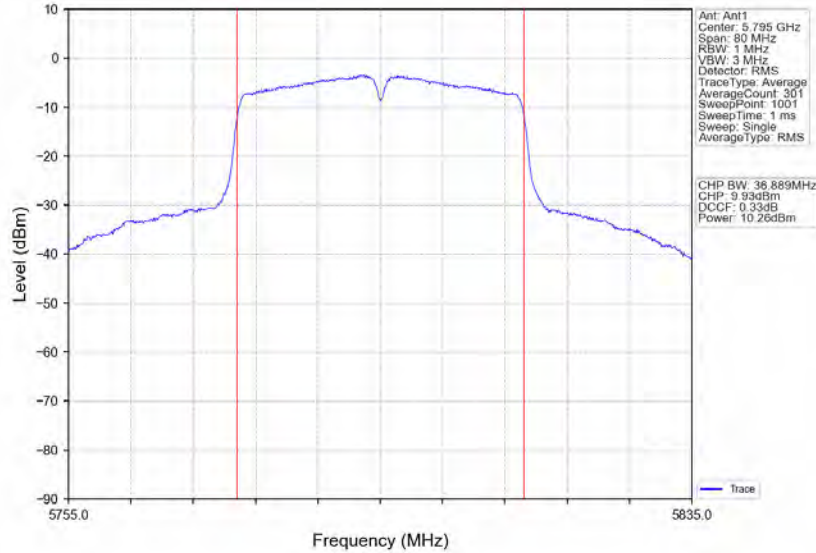
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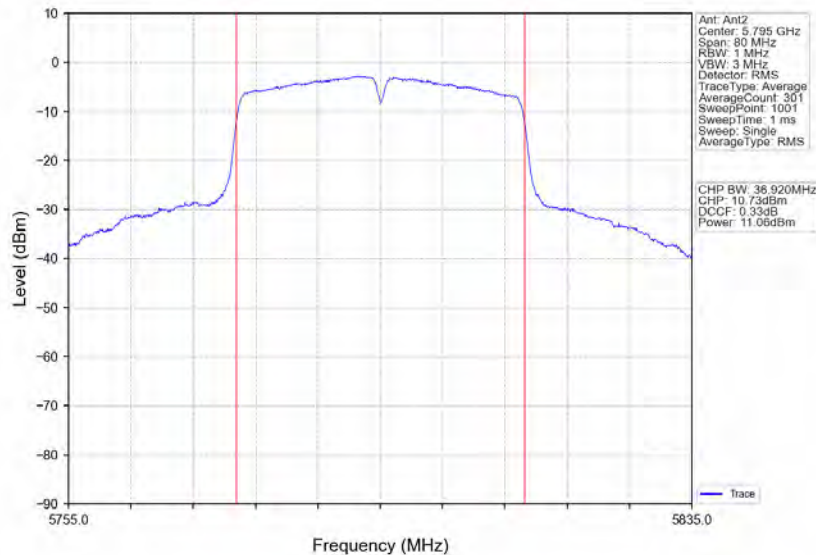
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802.11ac(VHT40)_HCH_5795MHz_Ant3_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant4_NTNV



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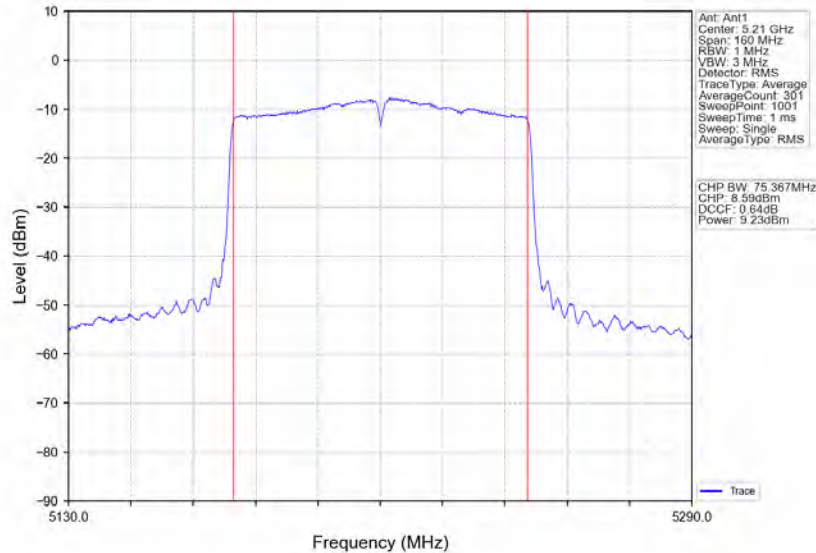
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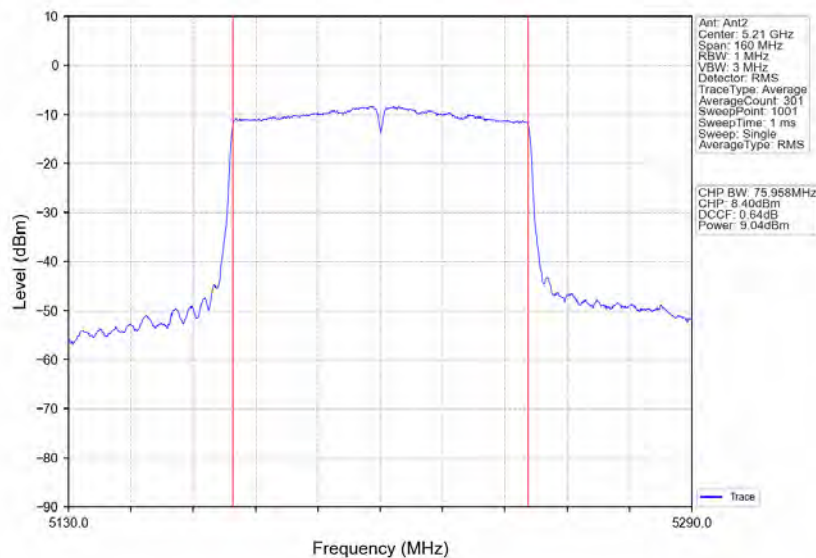
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802.11ac(VHT80)_MCH_5210MHz_Ant3_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant4_NTNV



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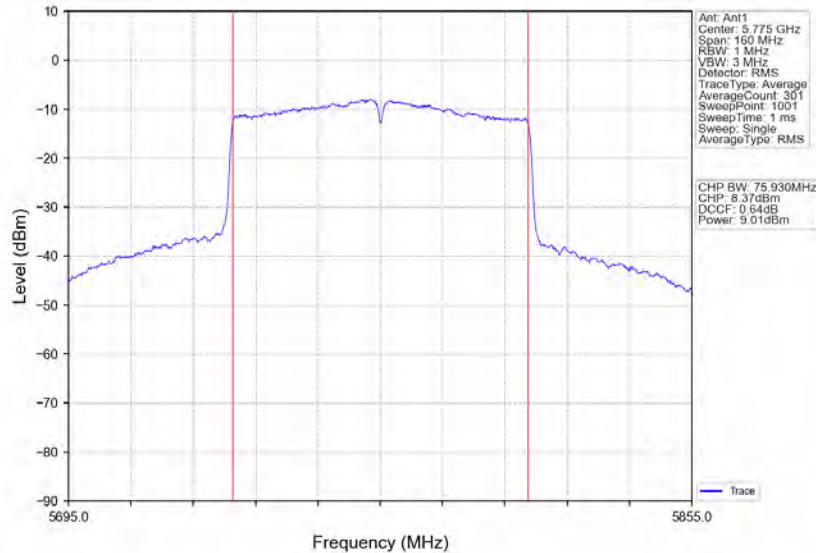
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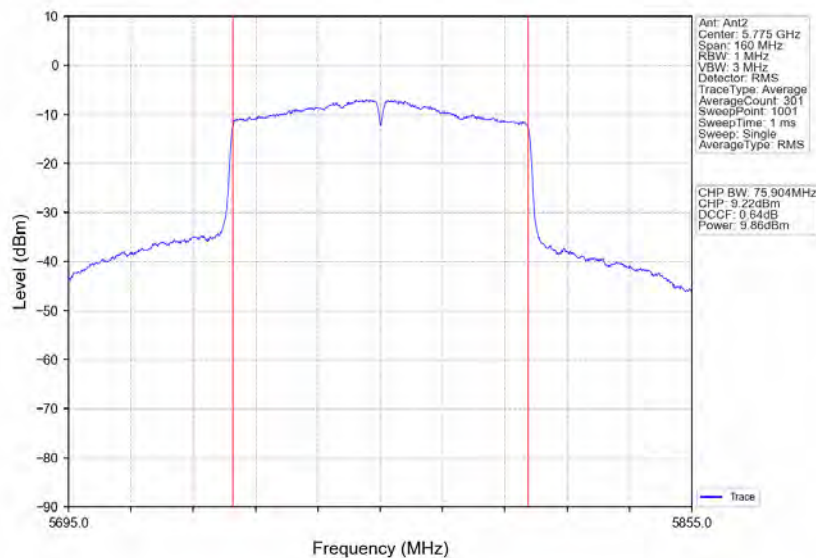
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802.11ac(VHT80)_MCH_5775MHz_Ant3_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant4_NTNV



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result for FCC

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT3	ANT4	MIMO	Limit	
802.11a	SISO	5180	2.22	2.27	/	<=11	Pass
		5200	2.44	1.92	/	<=11	Pass
		5240	2.51	2.16	/	<=11	Pass
802.11n (HT20)	MIMO	5180	-1.05	-0.95	1.89	<=11	Pass
		5200	-0.71	-1.43	1.82	<=11	Pass
		5240	-0.53	-0.96	2.22	<=11	Pass
802.11n (HT40)	MIMO	5190	-3.65	-3.80	-0.84	<=11	Pass
		5230	-3.20	-3.61	-0.43	<=11	Pass
802.11ac (VHT20)	MIMO	5180	-0.79	-0.84	2.02	<=11	Pass
		5200	-0.73	-1.35	1.87	<=11	Pass
		5240	-0.62	-0.76	2.20	<=11	Pass
802.11ac (VHT40)	MIMO	5190	-3.60	-3.72	-0.85	<=11	Pass
		5230	-3.40	-3.53	-0.48	<=11	Pass
802.11ac (VHT80)	MIMO	5210	-7.18	-7.61	-4.45	<=11	Pass

Note1: For U-NII-1 Antenna Gain: Ant3: 2.5dBi; Ant4: 1.62dBi; Directional gain:5.09dBi.

Test Result for IC

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)			EIRP PSD (dBm/MHz)			Limit	Verdict
			ANT3	ANT4	MIMO	ANT3	ANT4	MIMO		
802.11a	SISO	5180	2.22	2.27	/	4.72	3.89	/	<=10	Pass
		5200	2.44	1.92	/	4.94	3.54	/	<=10	Pass
		5240	2.51	2.16	/	5.01	3.78	/	<=10	Pass
802.11n (HT20)	MIMO	5180	-1.05	-0.95	1.89	1.45	0.67	4.09	<=10	Pass
		5200	-0.71	-1.43	1.82	1.79	0.19	4.07	<=10	Pass
		5240	-0.53	-0.96	2.22	1.97	0.66	4.37	<=10	Pass
802.11n (HT40)	MIMO	5190	-3.65	-3.80	-0.84	-1.15	-2.18	1.38	<=10	Pass
		5230	-3.20	-3.61	-0.43	-0.70	-1.99	1.71	<=10	Pass
802.11ac (VHT20)	MIMO	5180	-0.79	-0.84	2.02	1.71	0.78	4.28	<=10	Pass
		5200	-0.73	-1.35	1.87	1.77	0.27	4.09	<=10	Pass
		5240	-0.62	-0.76	2.20	1.88	0.86	4.41	<=10	Pass
802.11ac (VHT40)	MIMO	5190	-3.60	-3.72	-0.85	-1.10	-2.10	1.44	<=10	Pass
		5230	-3.40	-3.53	-0.48	-0.90	-1.91	1.63	<=10	Pass
802.11ac (VHT80)	MIMO	5210	-7.18	-7.61	-4.45	-4.68	-5.99	-2.28	<=10	Pass

Note1: For U-NII-1 Antenna Gain: Ant3: 2.5dBi; Ant4: 1.62dBi; Directional gain:5.09dBi.



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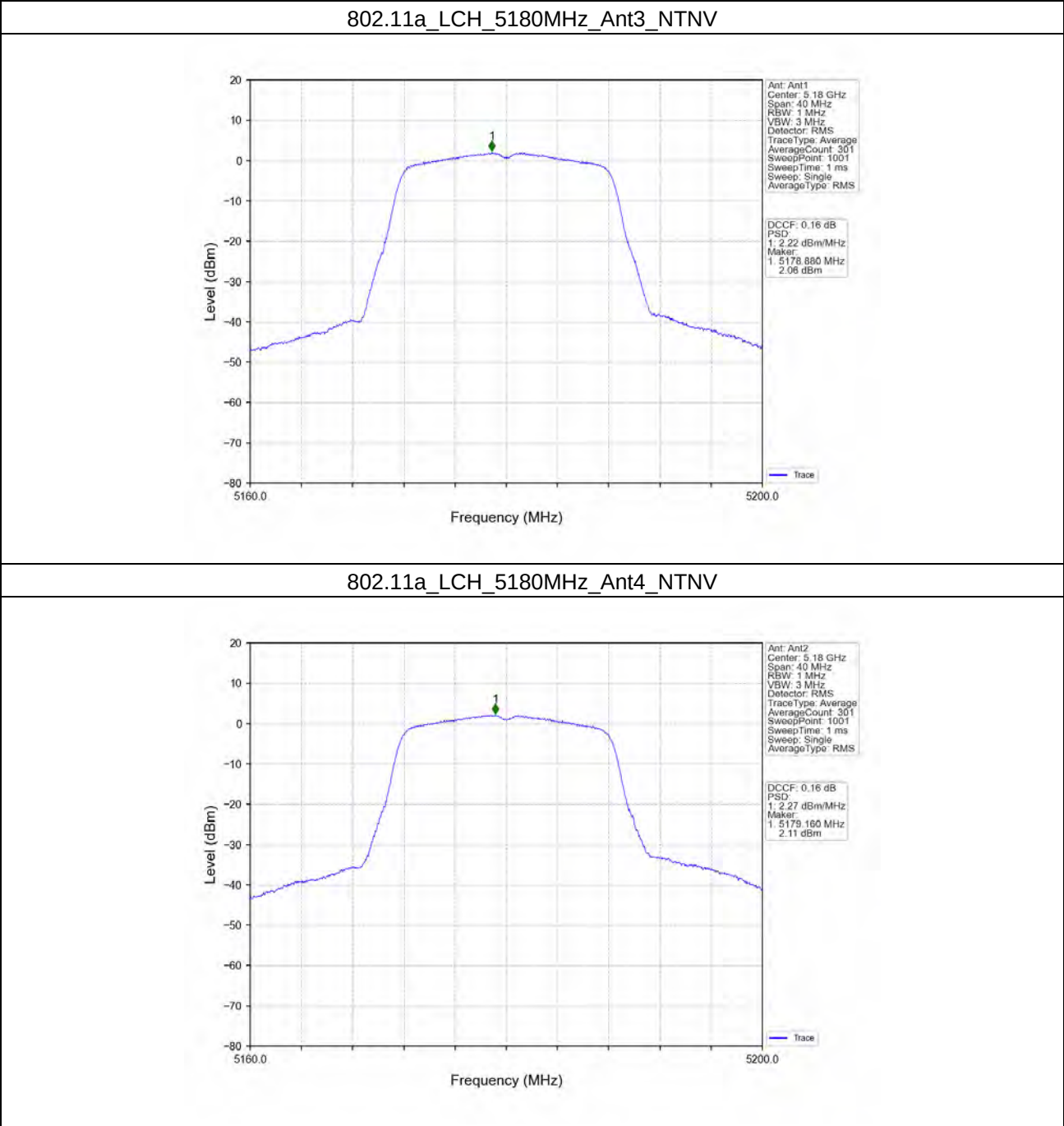
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4.1.2 Test Graph



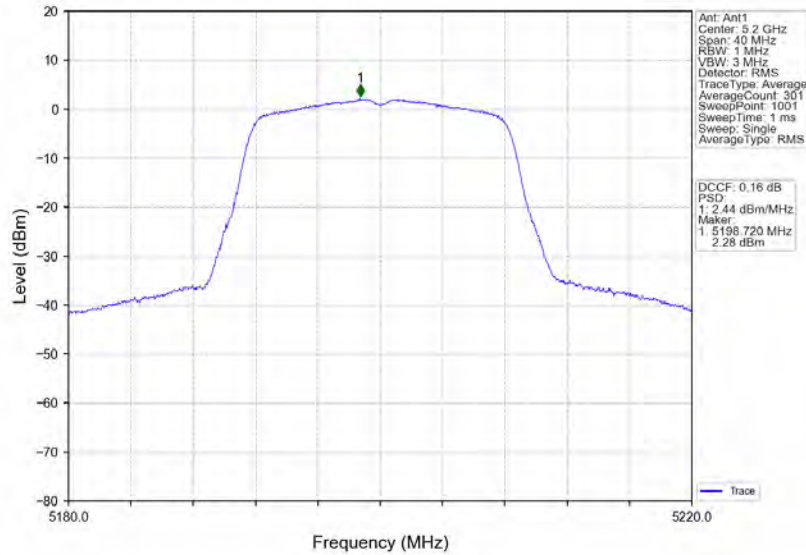
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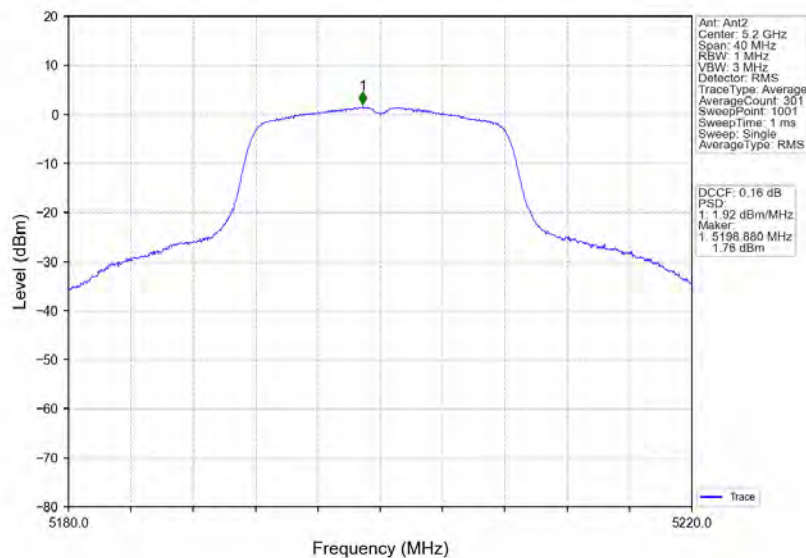
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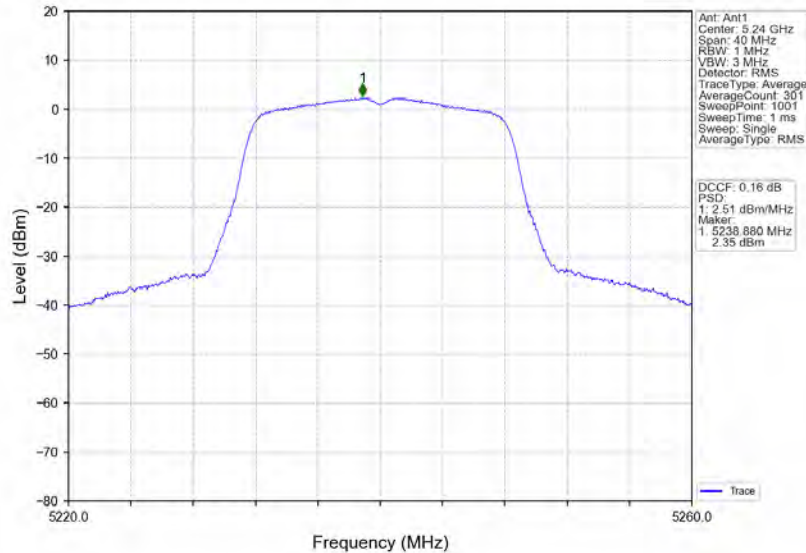
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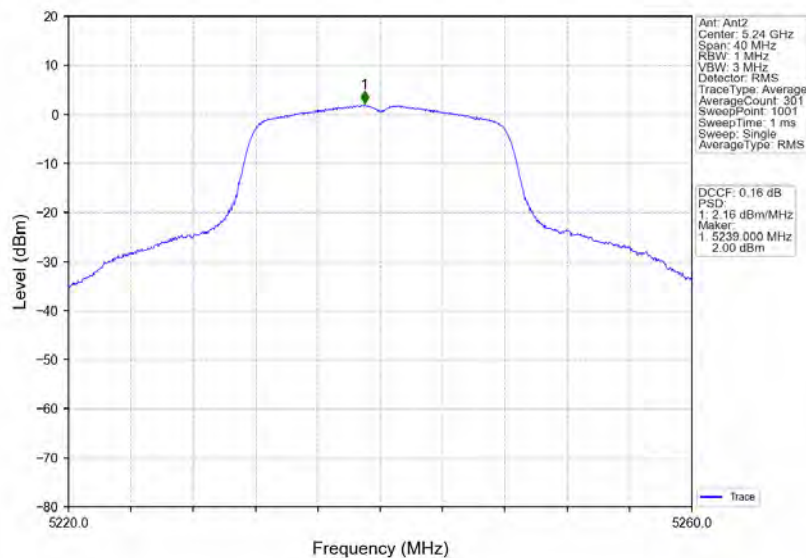
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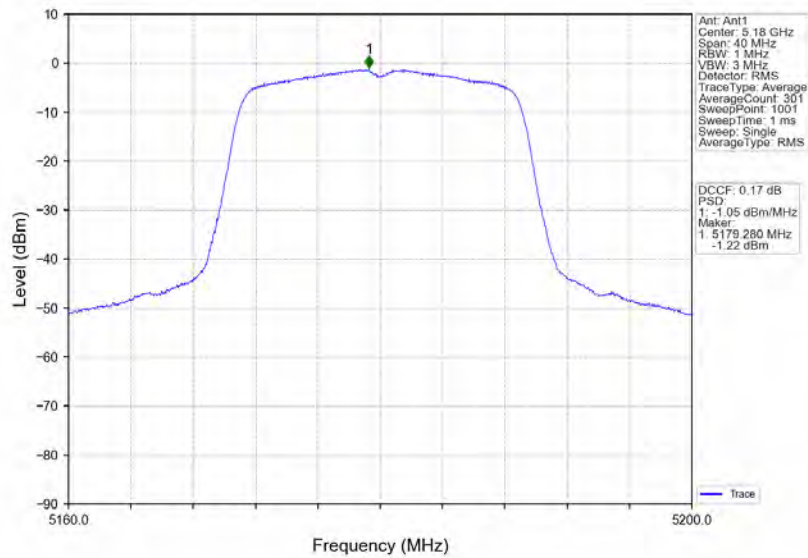
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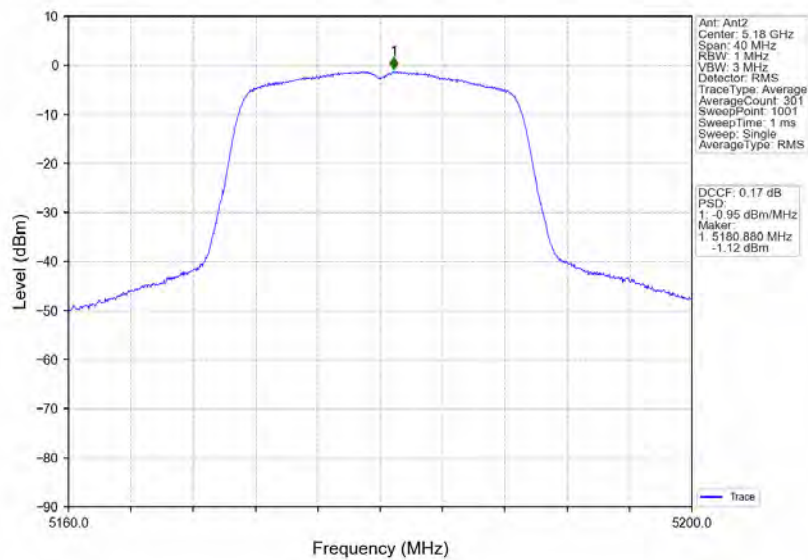
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802.11n(HT20)_LCH_5180MHz_Ant3_NTNV



802.11n(HT20)_LCH_5180MHz_Ant4_NTNV



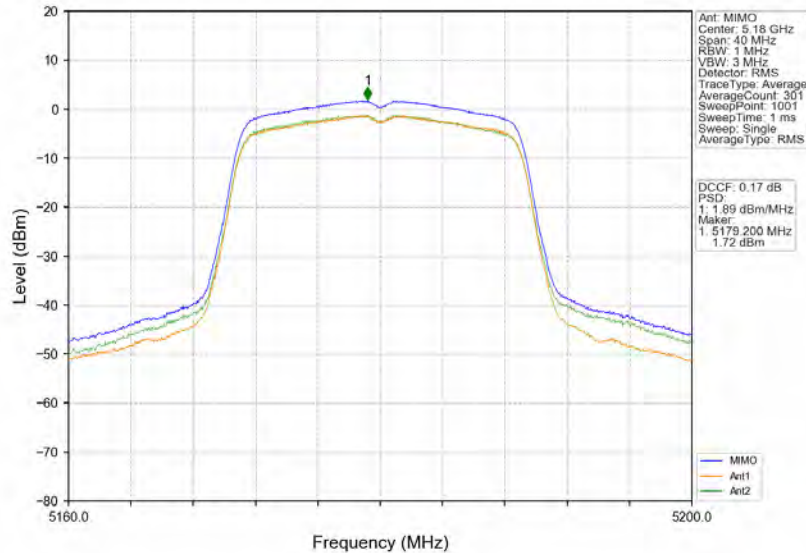
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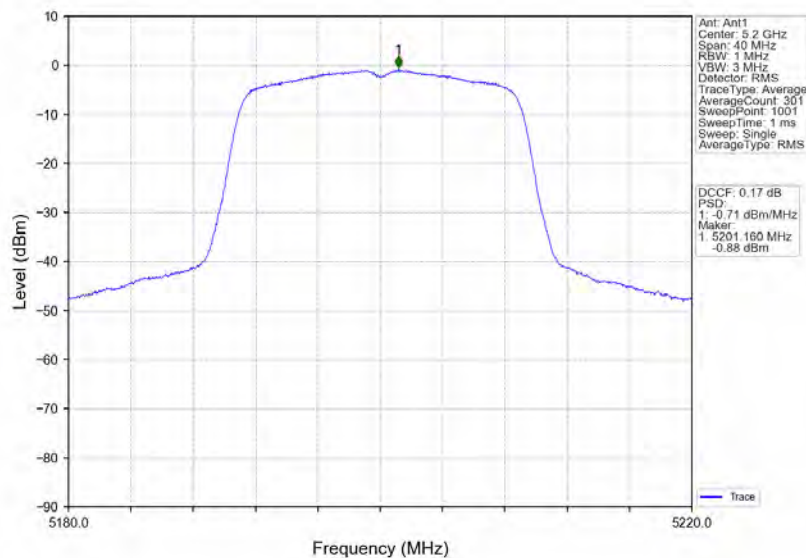
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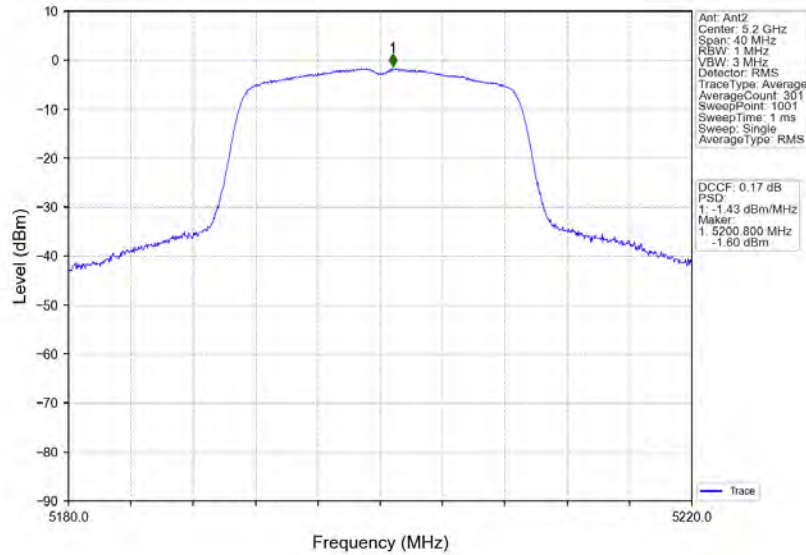
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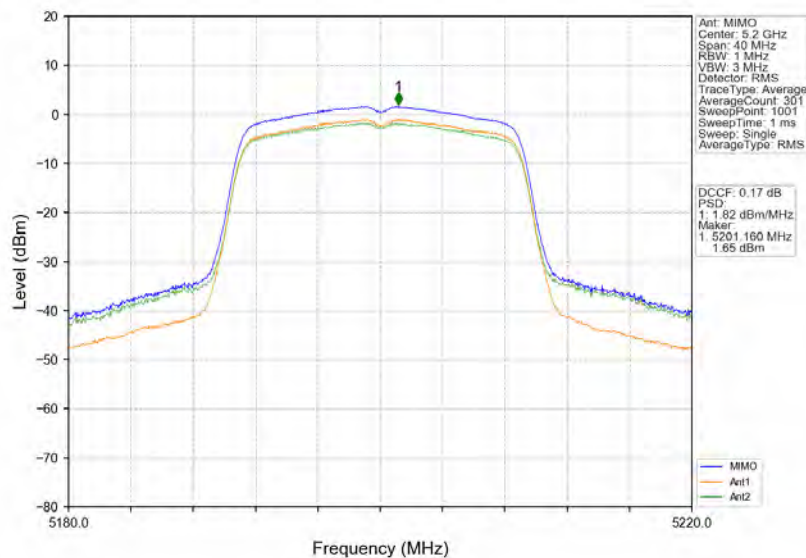
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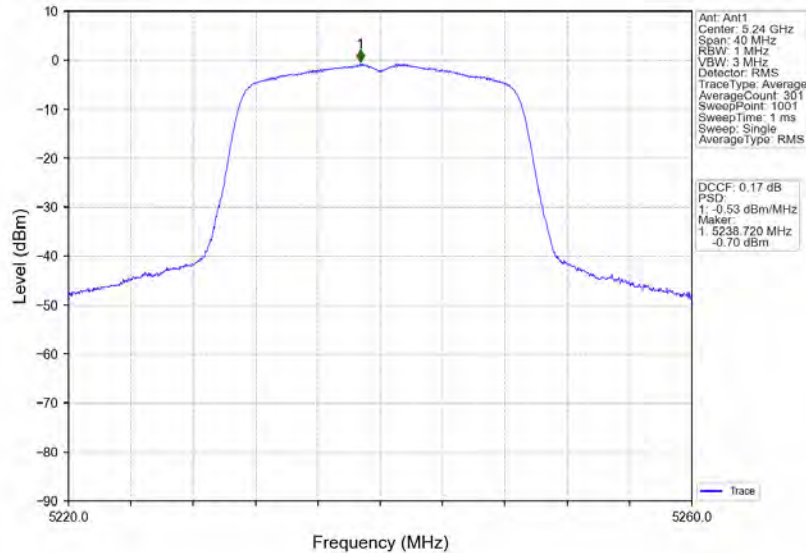
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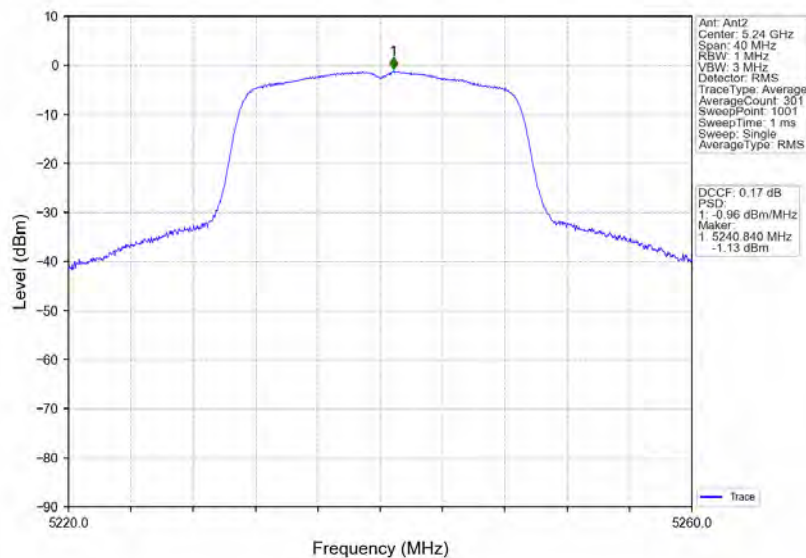
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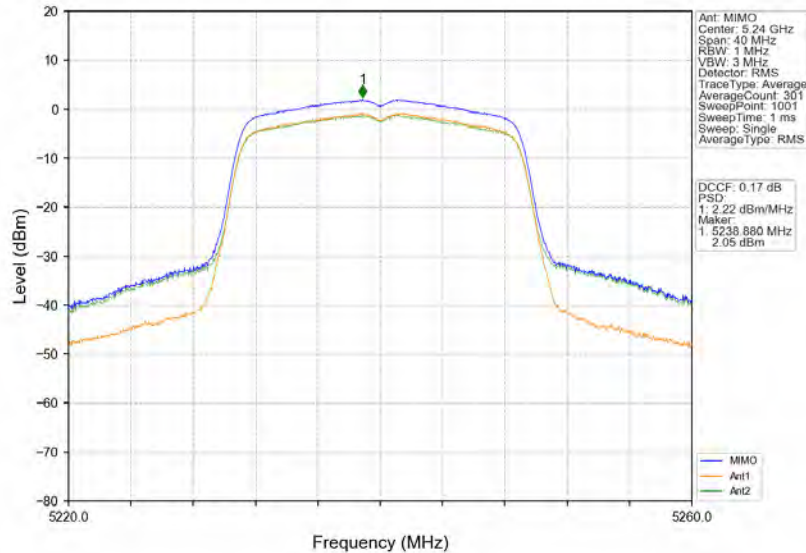
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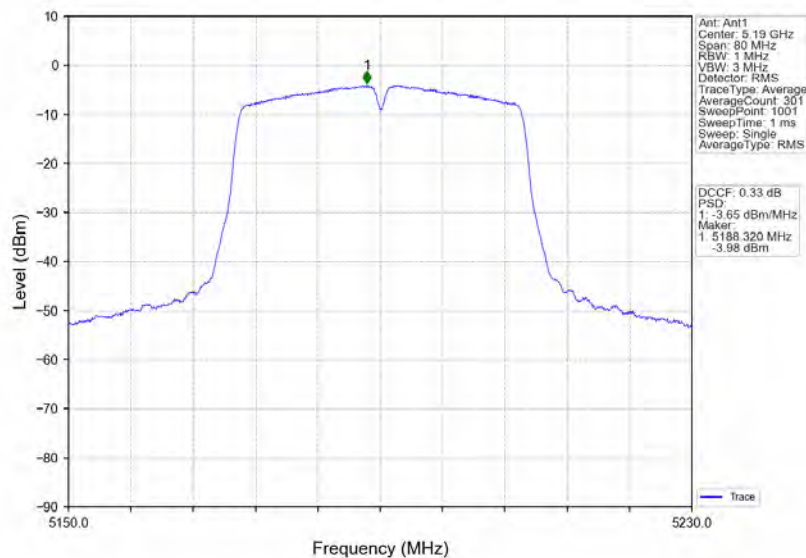
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802.11n(HT40)_LCH_5190MHz_Ant3_NTNV



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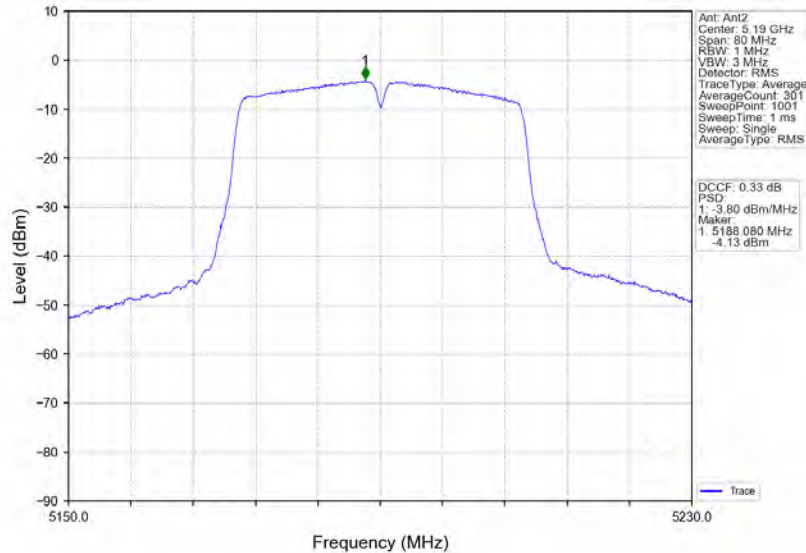
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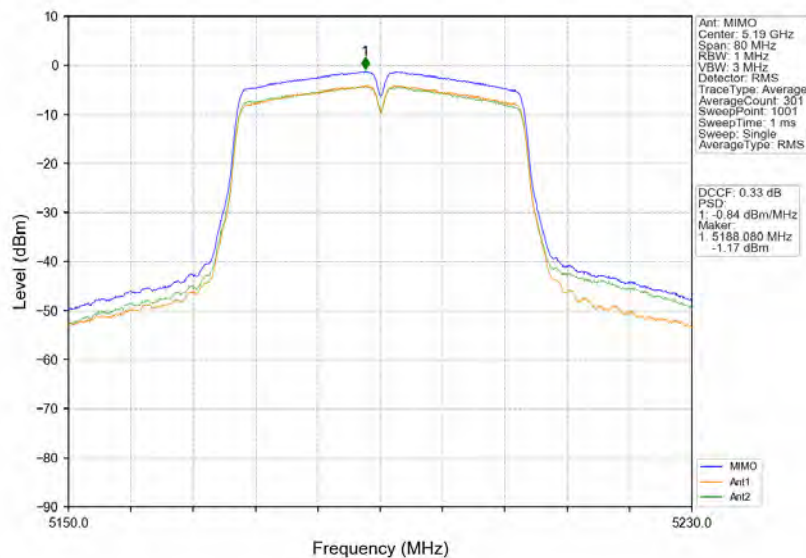
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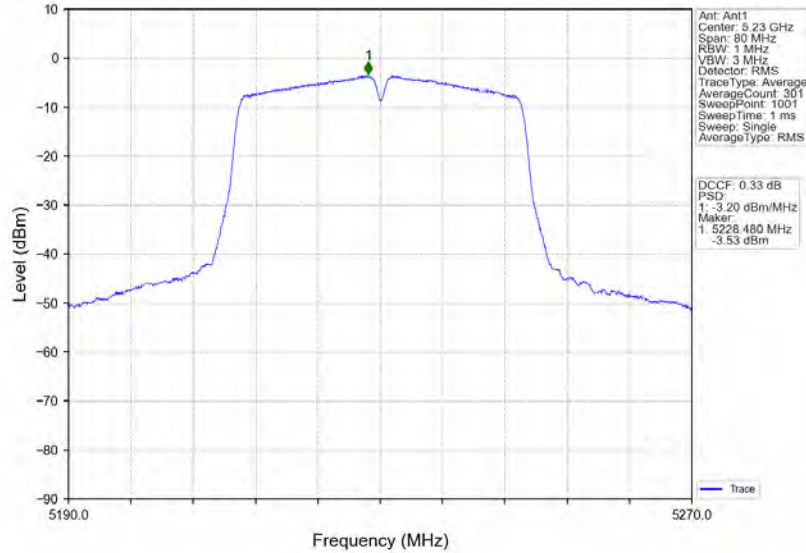
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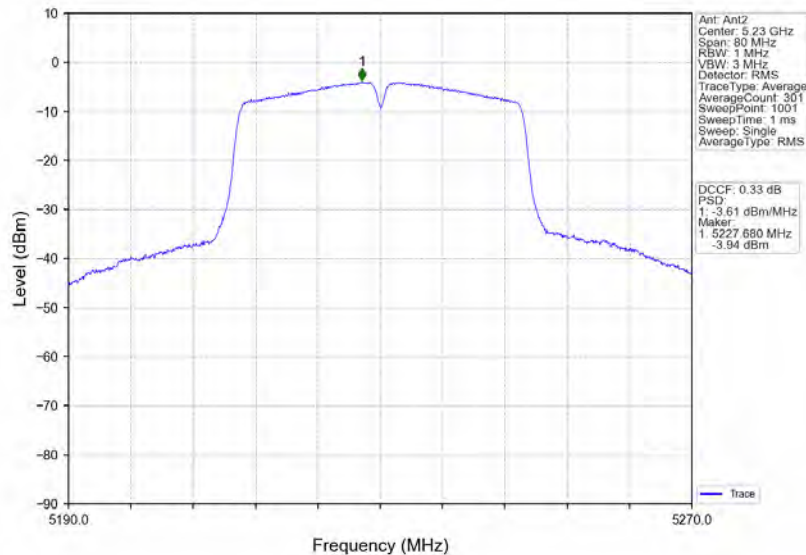
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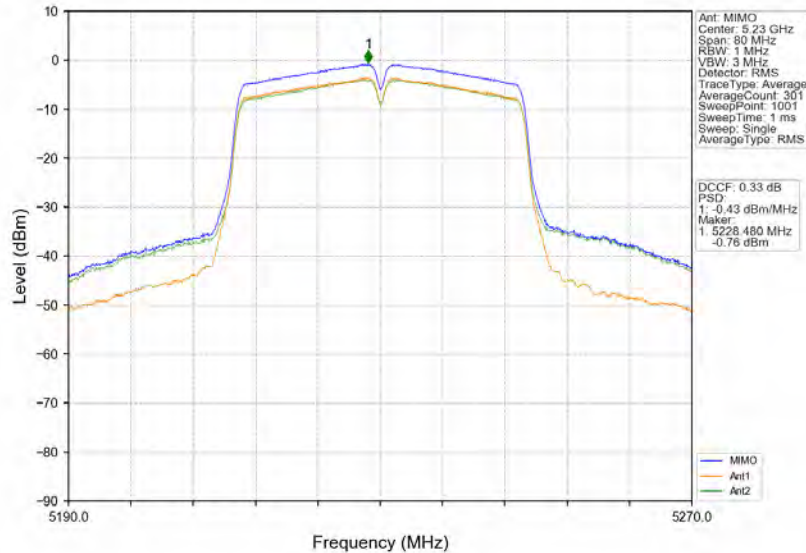
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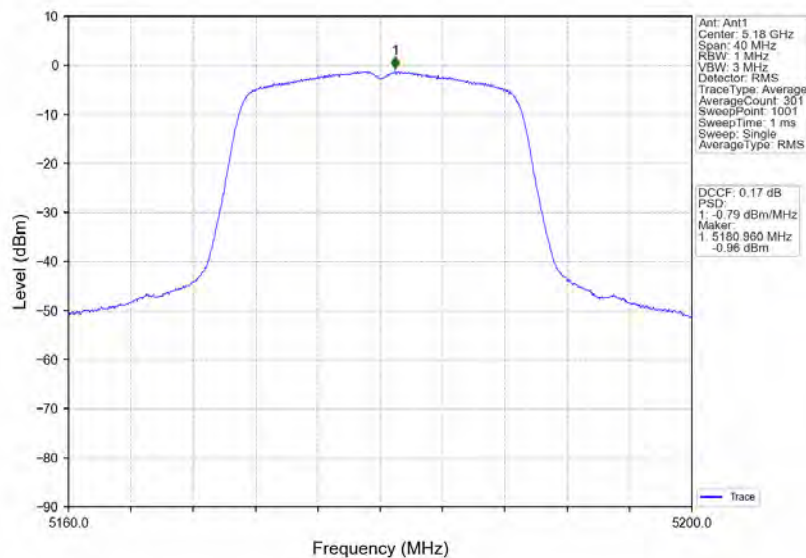
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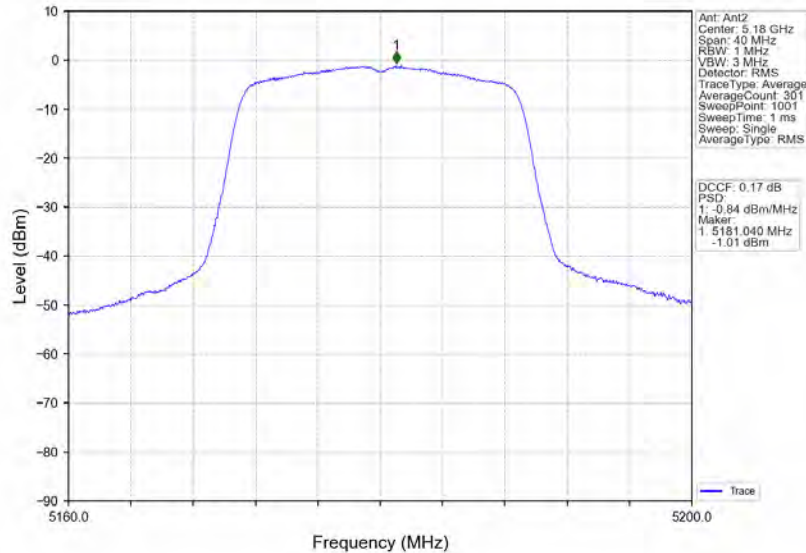
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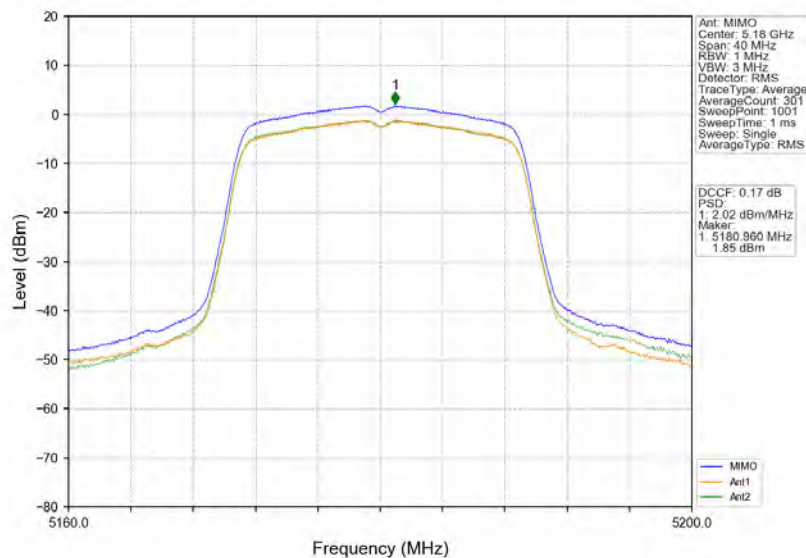
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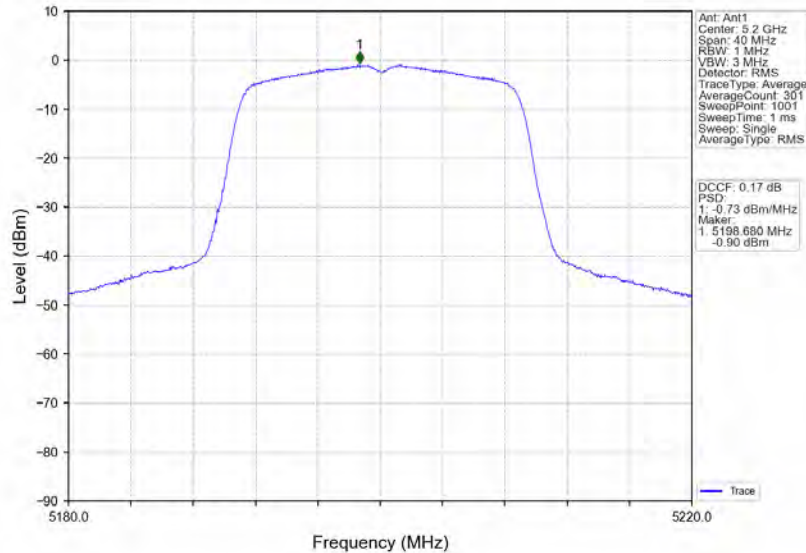
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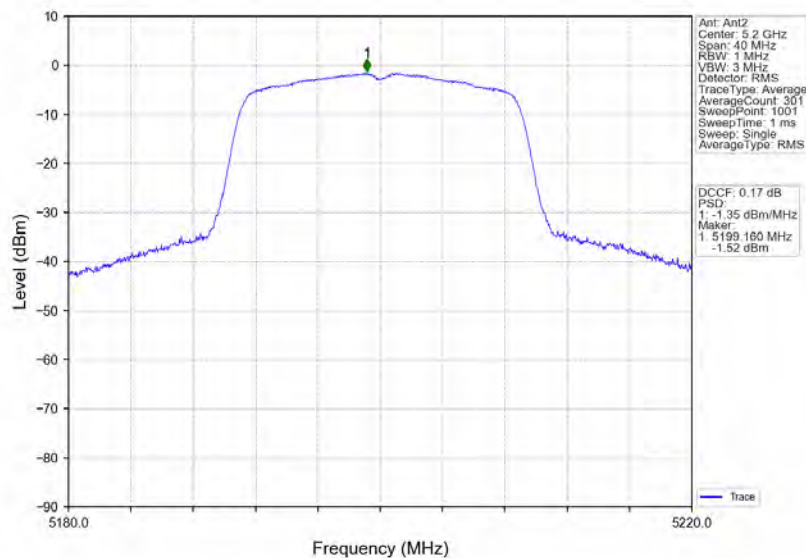
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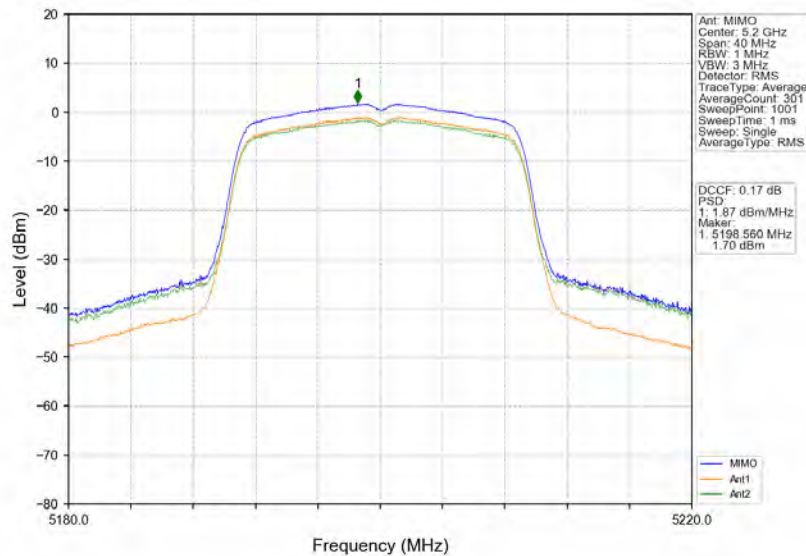
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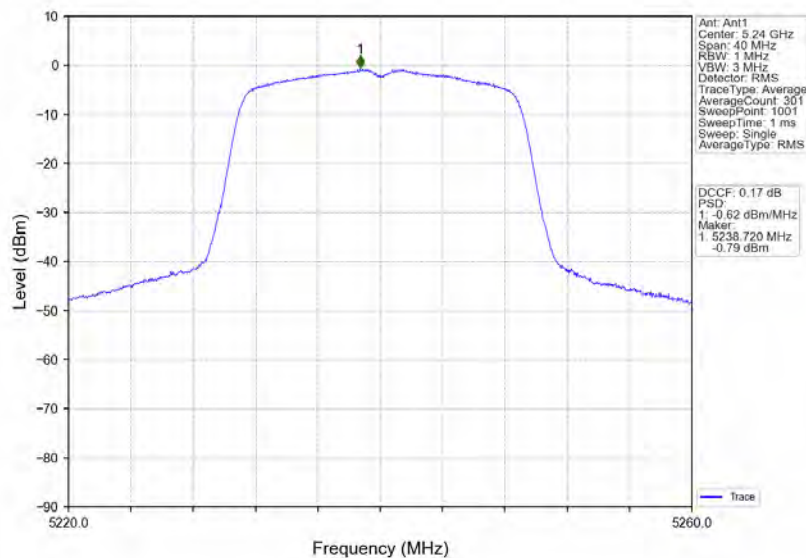
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802.11ac(VHT20)_MCH_5200MHz_MIMO_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant3_NTNV



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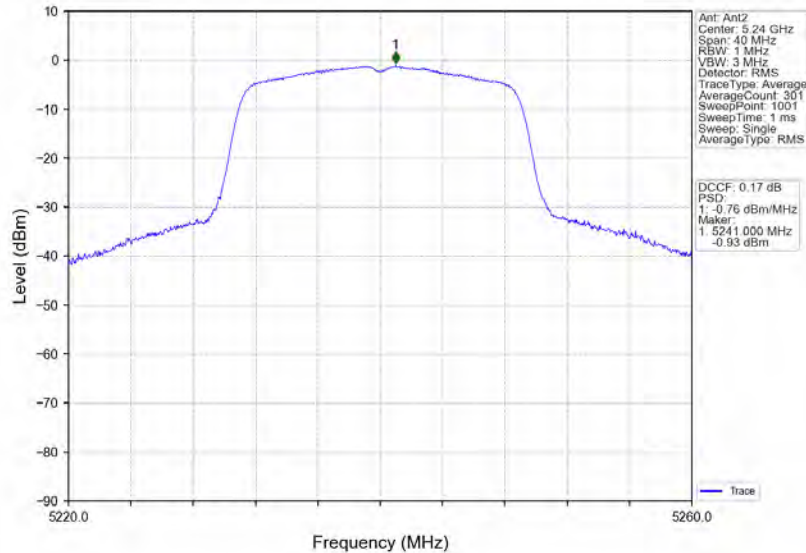
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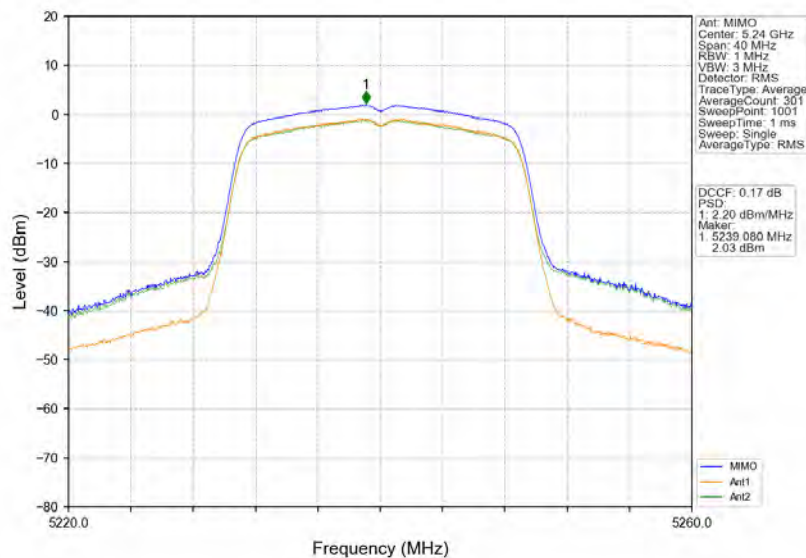
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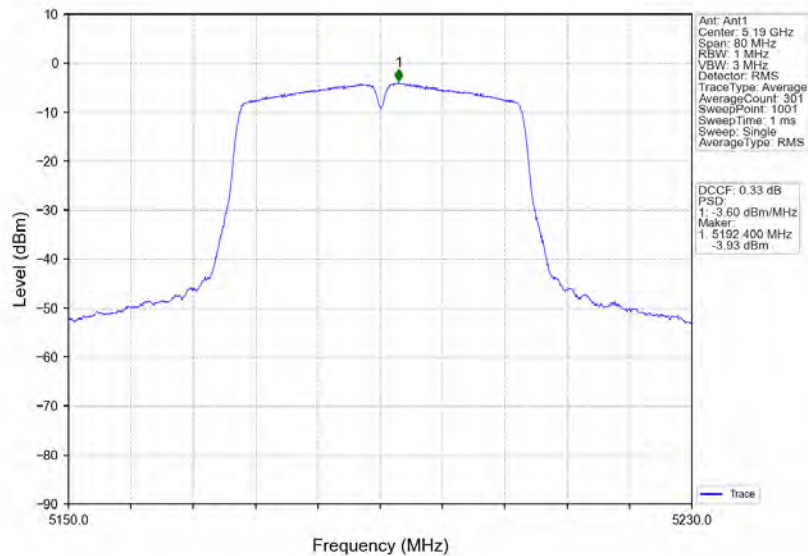
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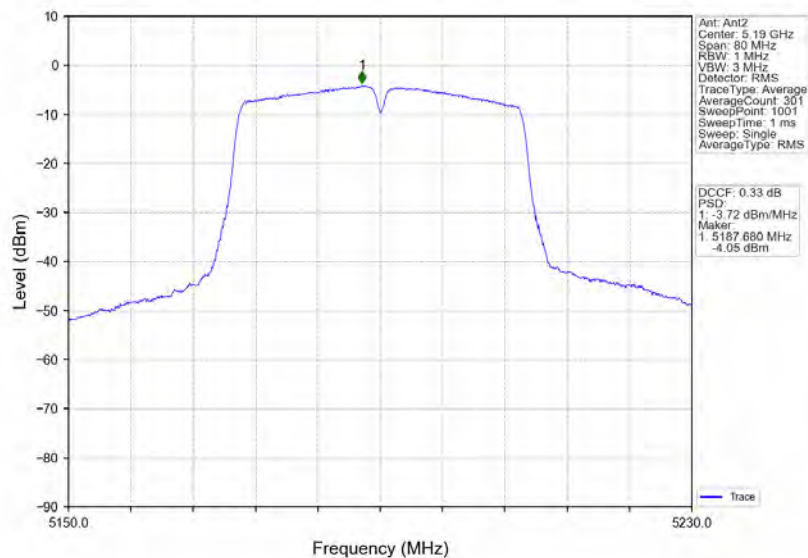
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802.11ac(VHT40)_LCH_5190MHz_Ant3_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant4_NTNV



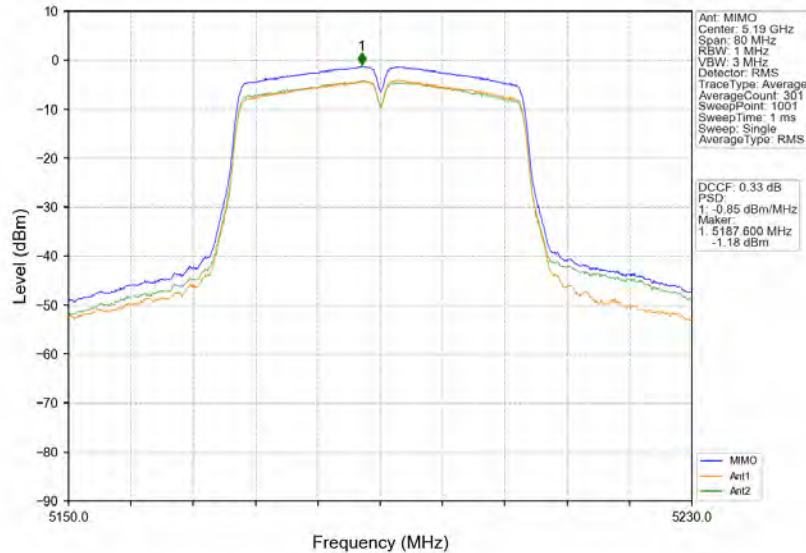
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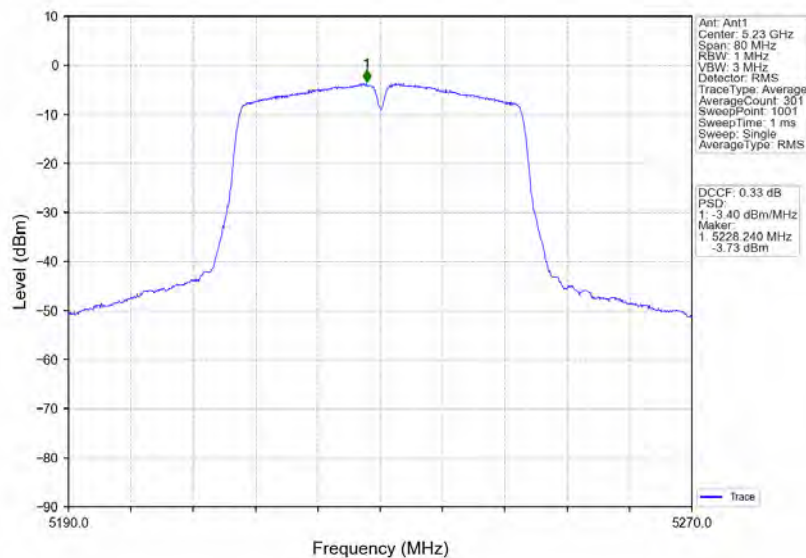
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802.11ac(VHT40)_LCH_5190MHz_MIMO_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant3_NTNV



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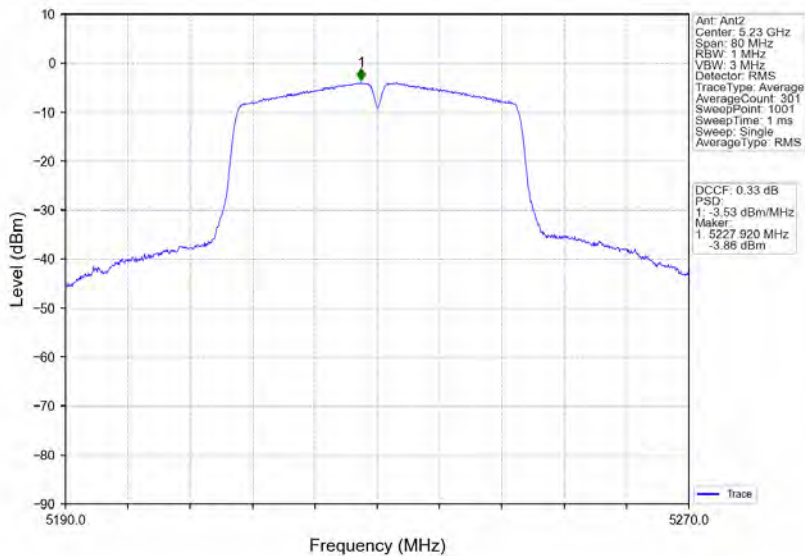
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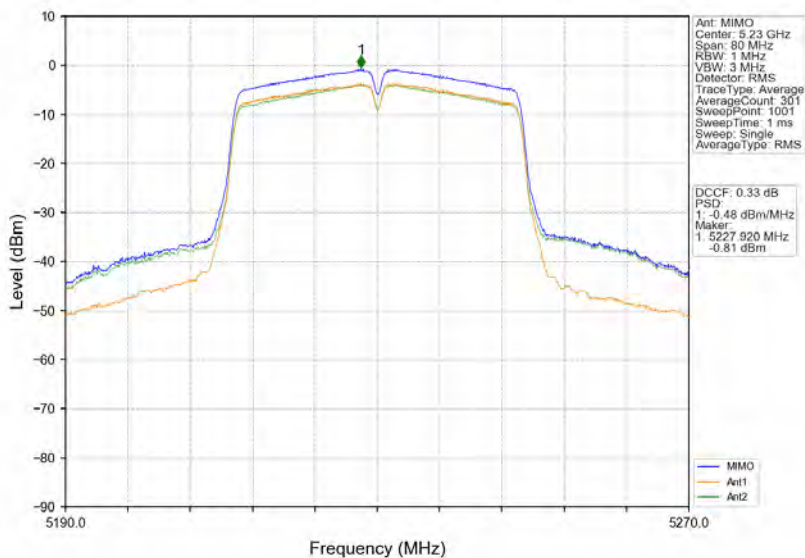
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802.11ac(VHT40)_HCH_5230MHz_Ant4_NTNV



802.11ac(VHT40)_HCH_5230MHz_MIMO_NTNV



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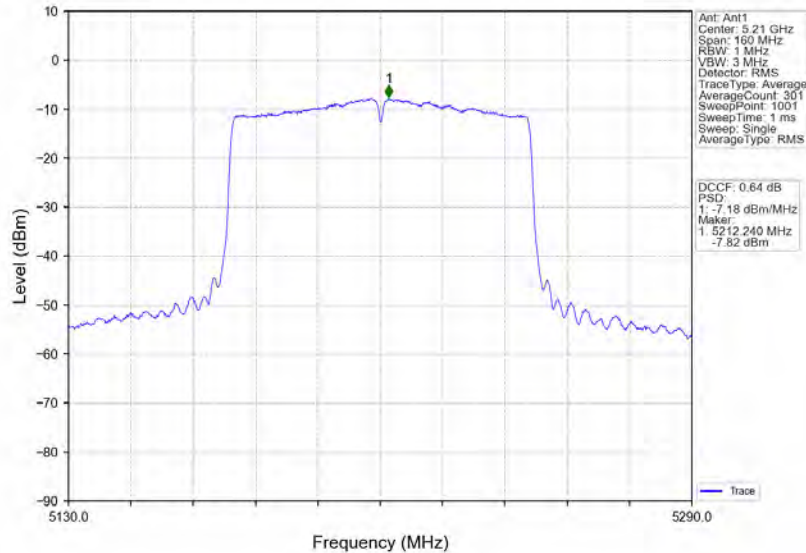
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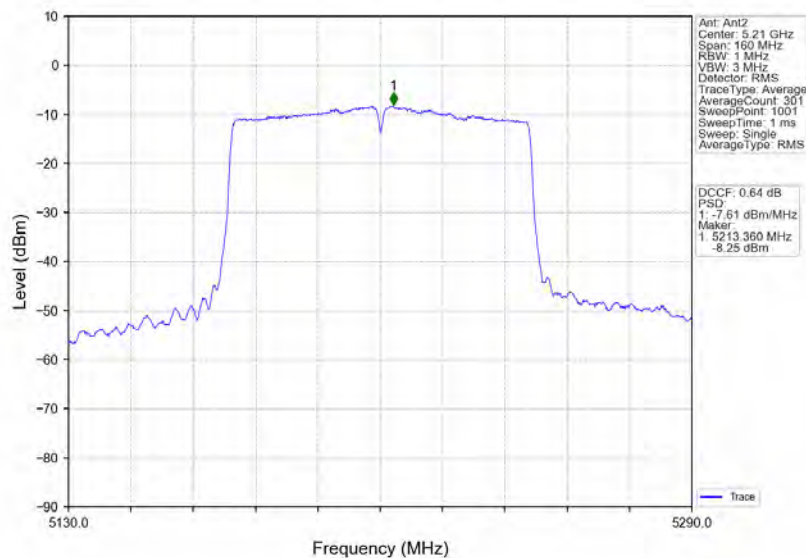
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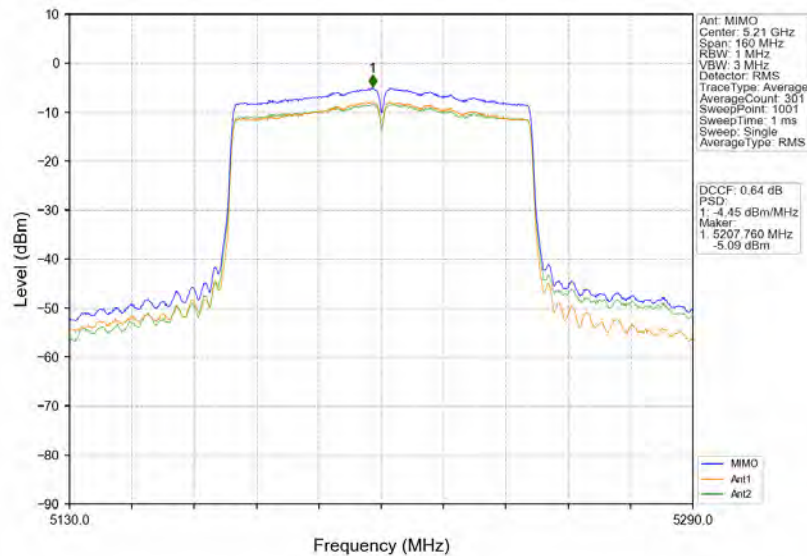
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4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT3	ANT4	MIMO	Limit	
802.11a	SISO	5745	-0.45	0.28	/	<=30	Pass
		5785	-0.58	0.57	/	<=30	Pass
		5825	-0.13	0.19	/	<=30	Pass
802.11n (HT20)	MIMO	5745	-3.09	-2.90	-0.22	<=30	Pass
		5785	-3.16	-2.95	-0.17	<=30	Pass
		5825	-2.73	-3.19	-0.03	<=30	Pass
802.11n (HT40)	MIMO	5755	-6.04	-4.98	-2.76	<=30	Pass
		5795	-6.16	-5.26	-2.83	<=30	Pass
802.11ac (VHT20)	MIMO	5745	-3.16	-2.72	-0.12	<=30	Pass
		5785	-3.03	-2.72	-0.06	<=30	Pass
		5825	-2.76	-3.06	0.04	<=30	Pass
802.11ac (VHT40)	MIMO	5755	-6.08	-5.08	-2.76	<=30	Pass
		5795	-6.09	-5.40	-2.79	<=30	Pass
802.11ac (VHT80)	MIMO	5775	-10.11	-9.33	-6.71	<=30	Pass

Note1: Antenna Gain: Ant3: 2.46dBi; Ant4: 2.55dBi;
Note2: Directional Gain: Band1: 5.09dBi, Band3: 5.52dBi



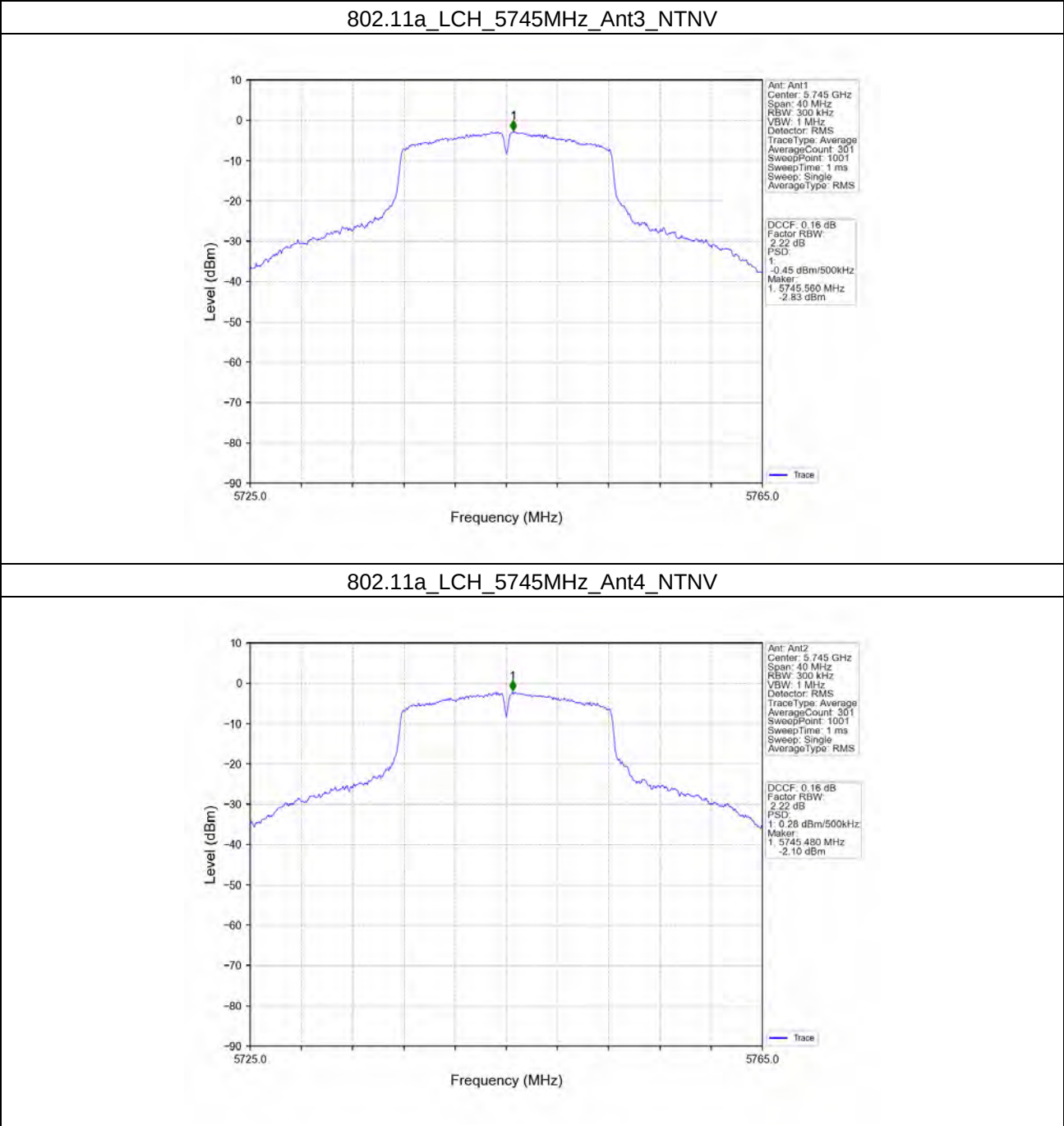
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4.2.2 Test Graph



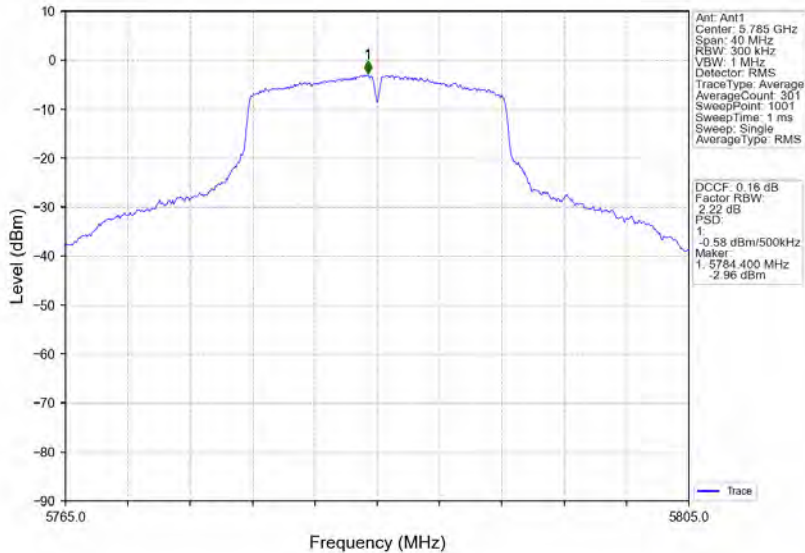
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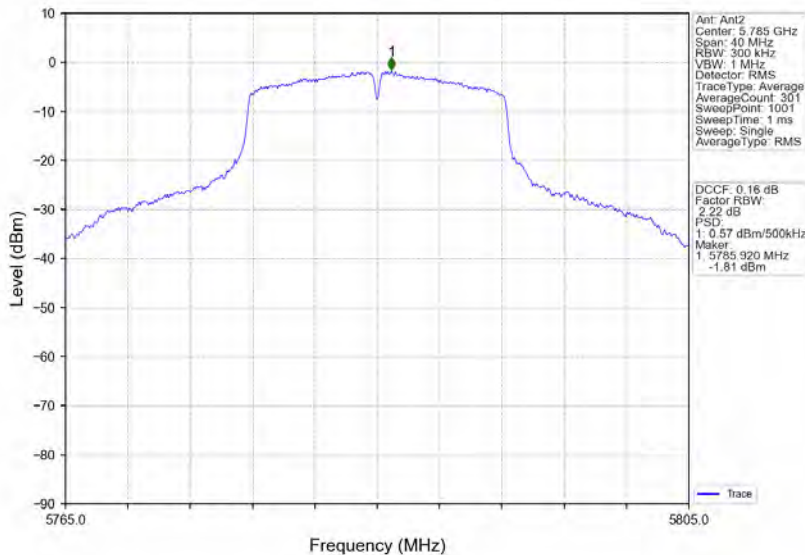
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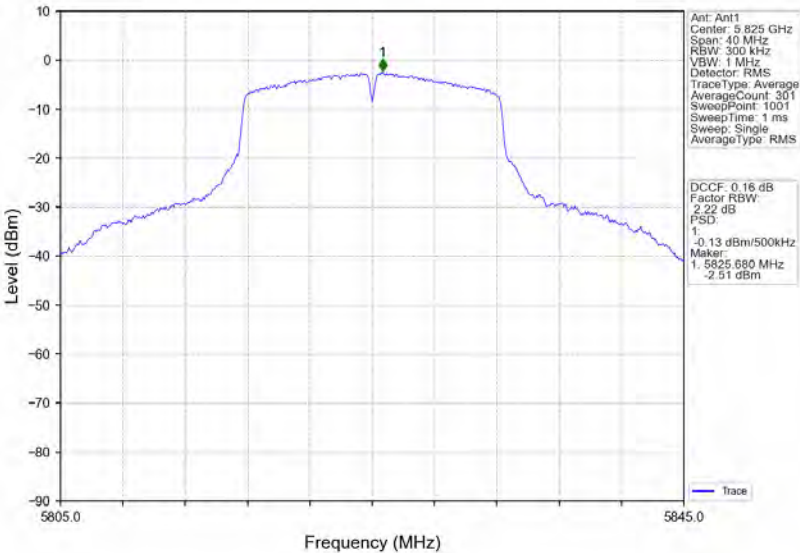
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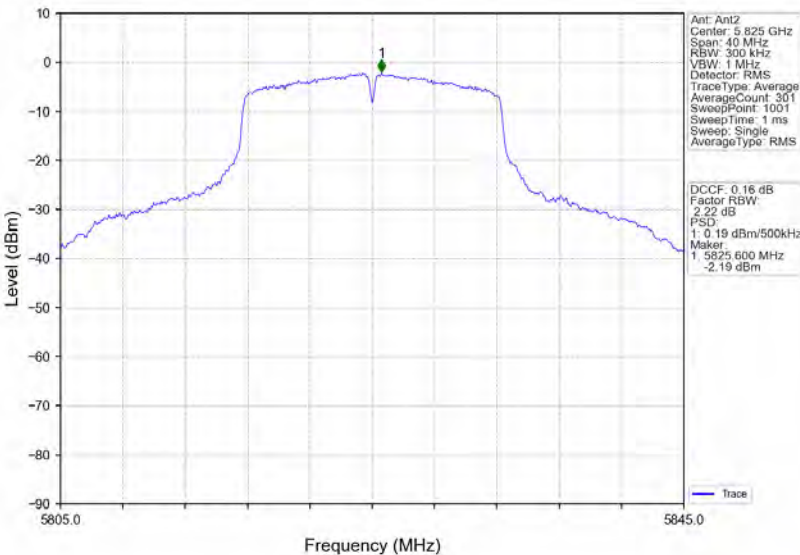
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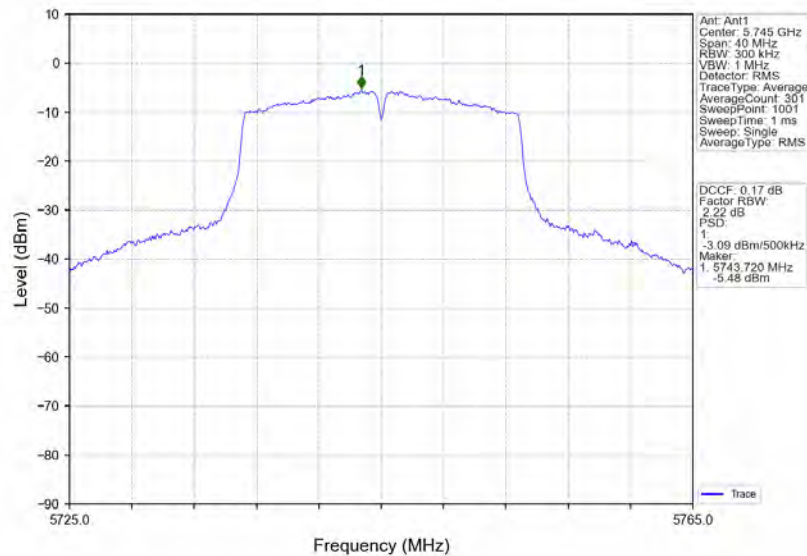
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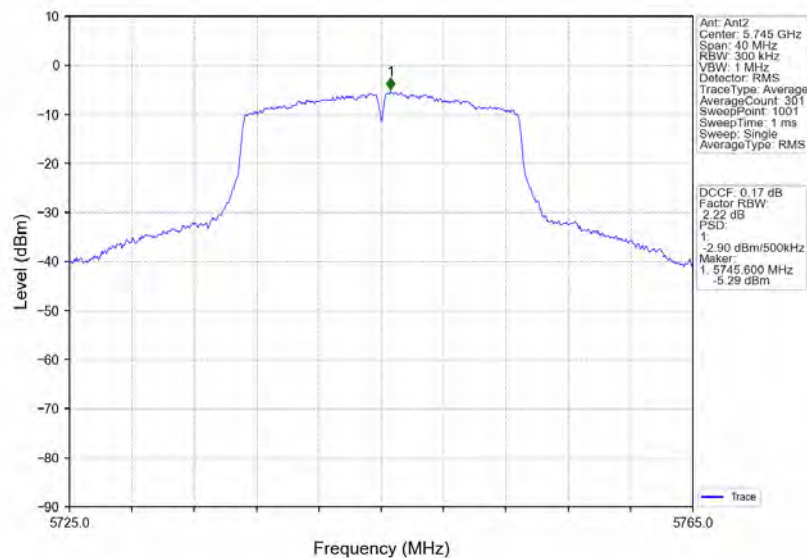
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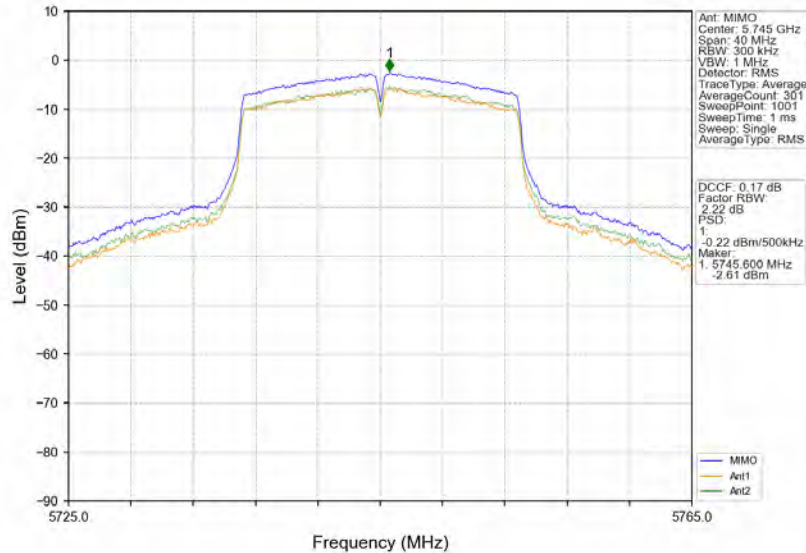
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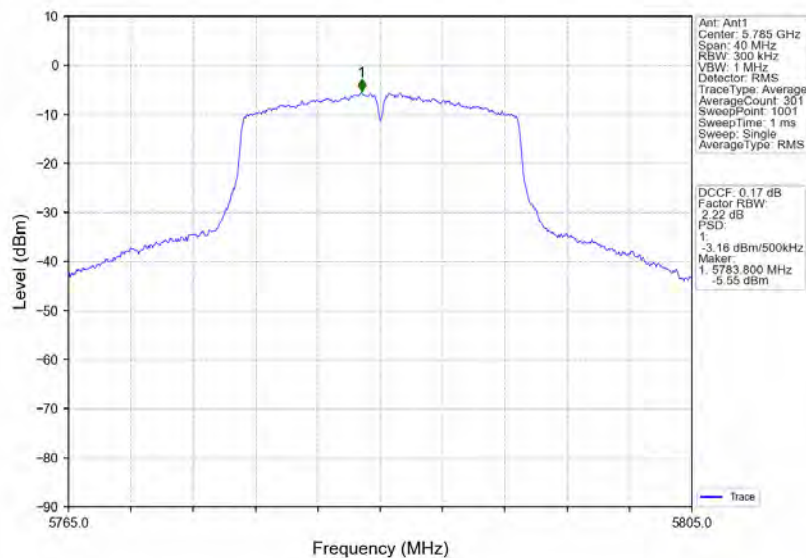
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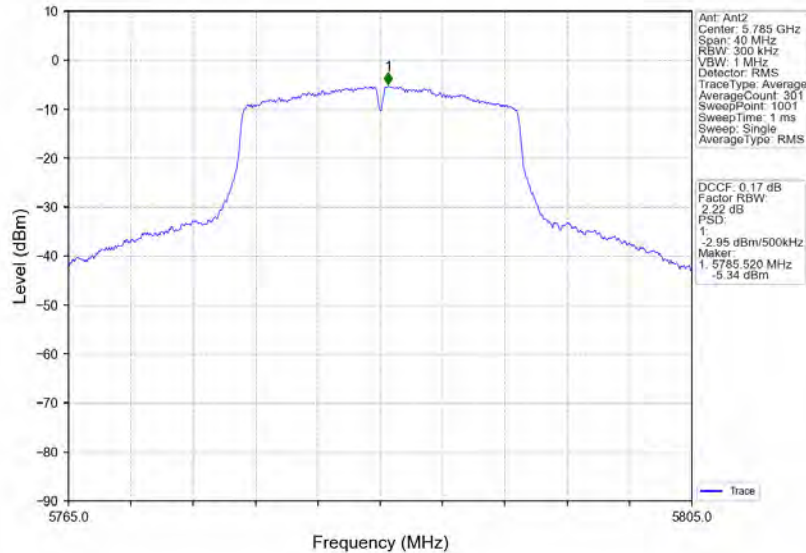
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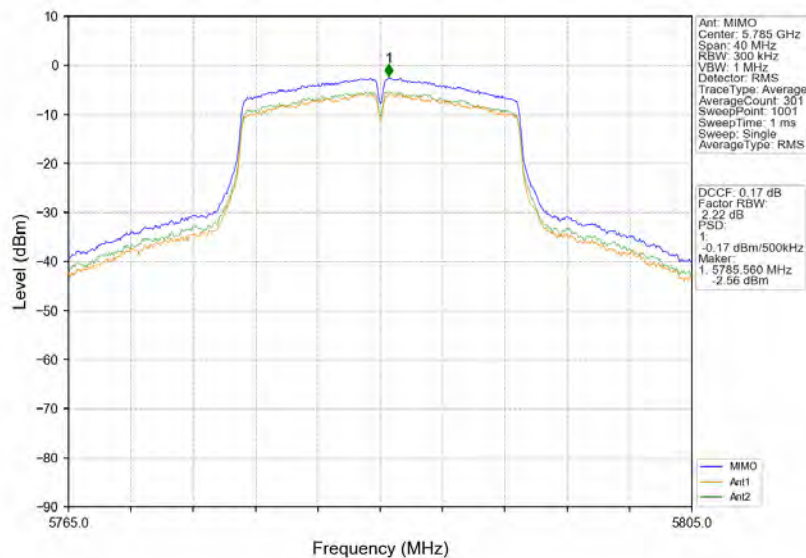
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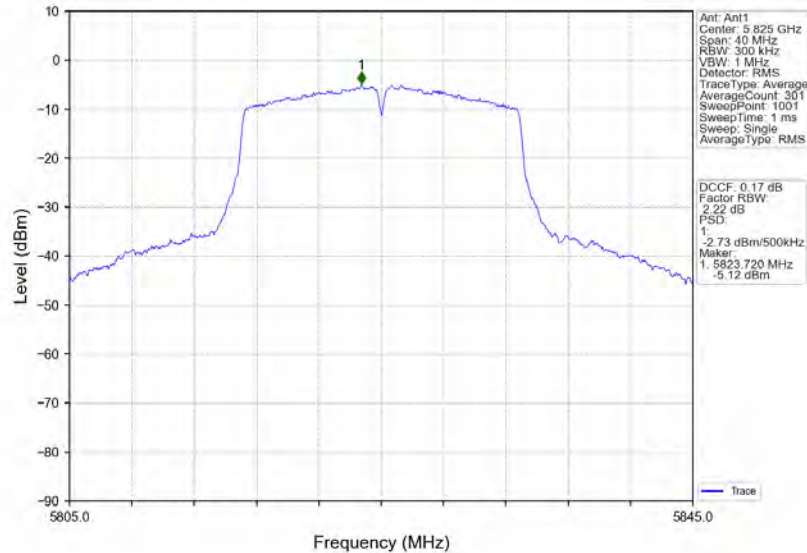
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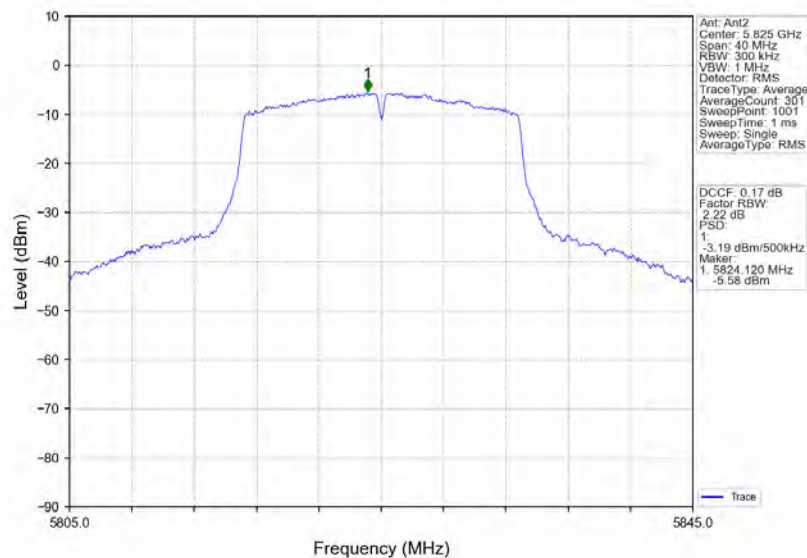
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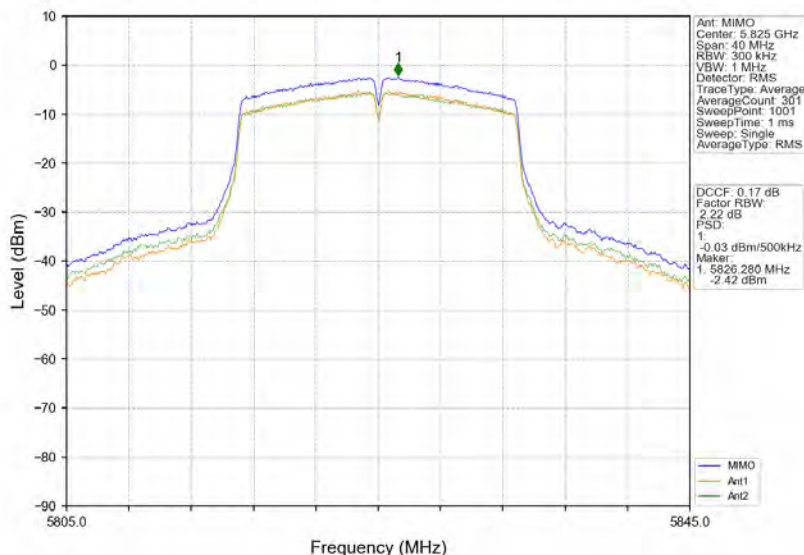
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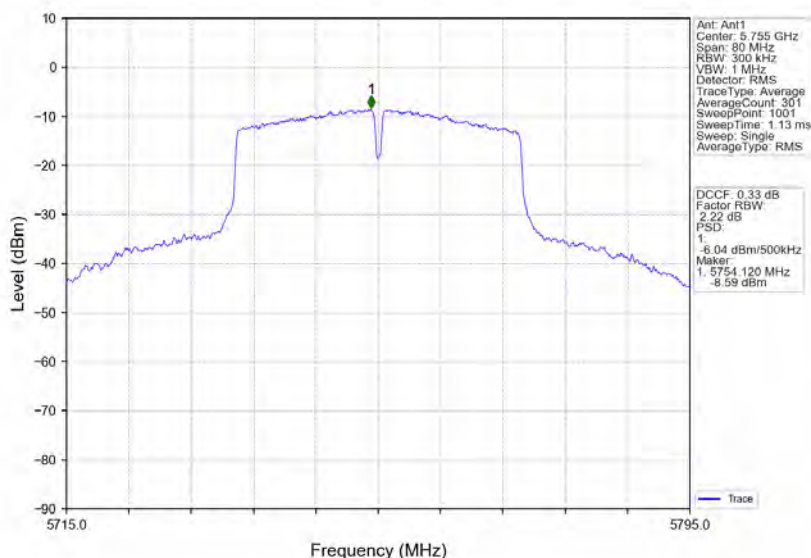
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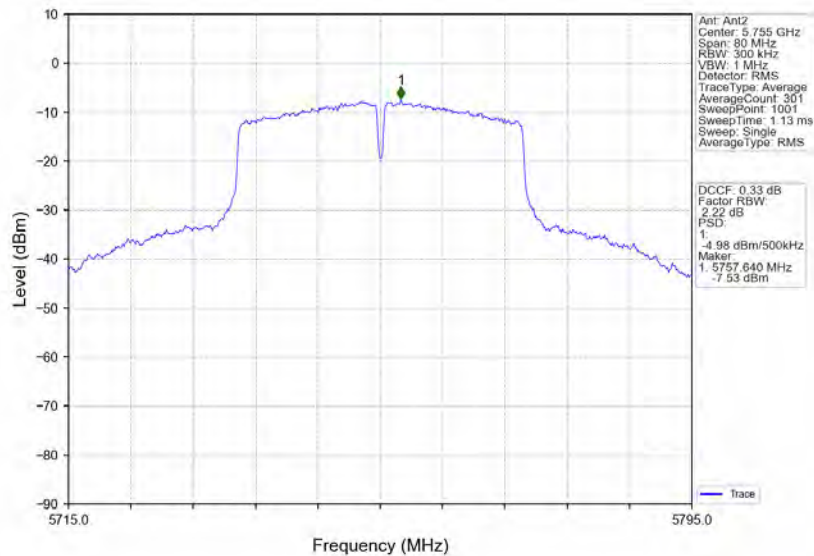
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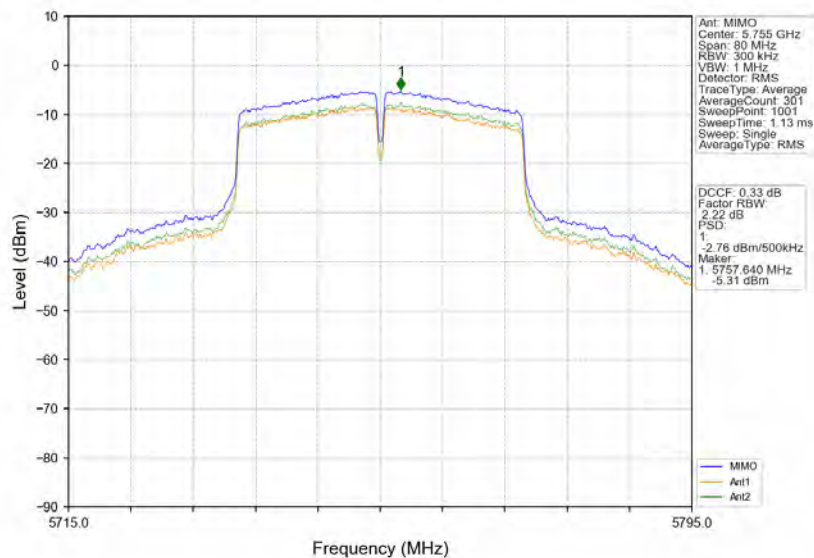
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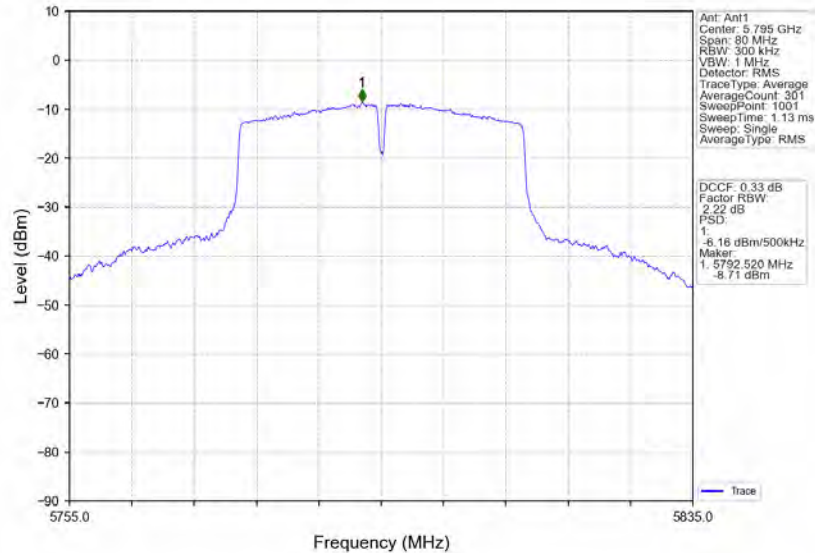
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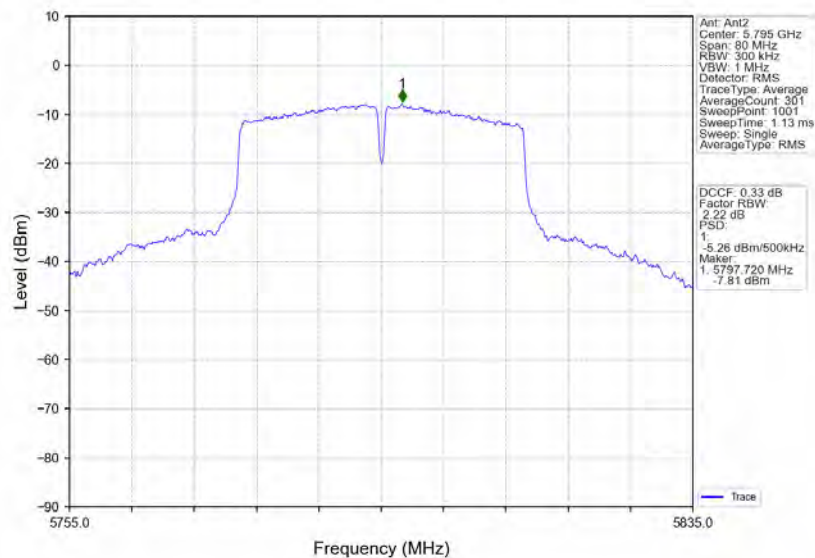
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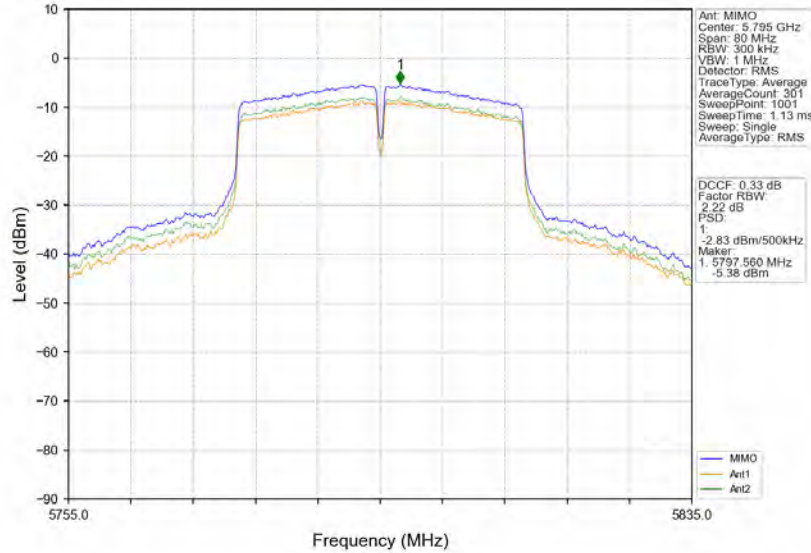
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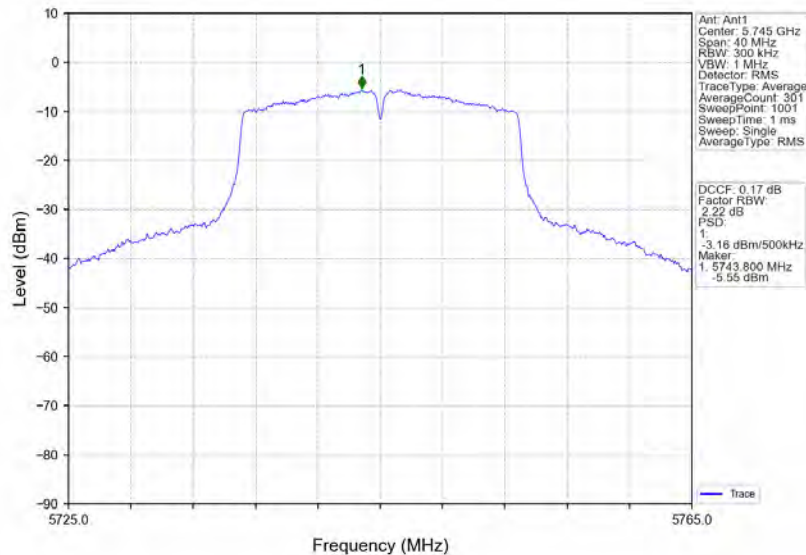
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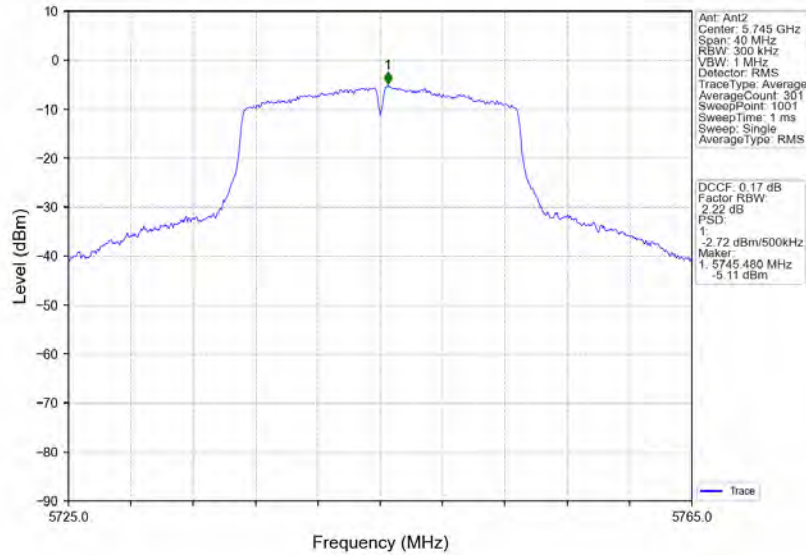
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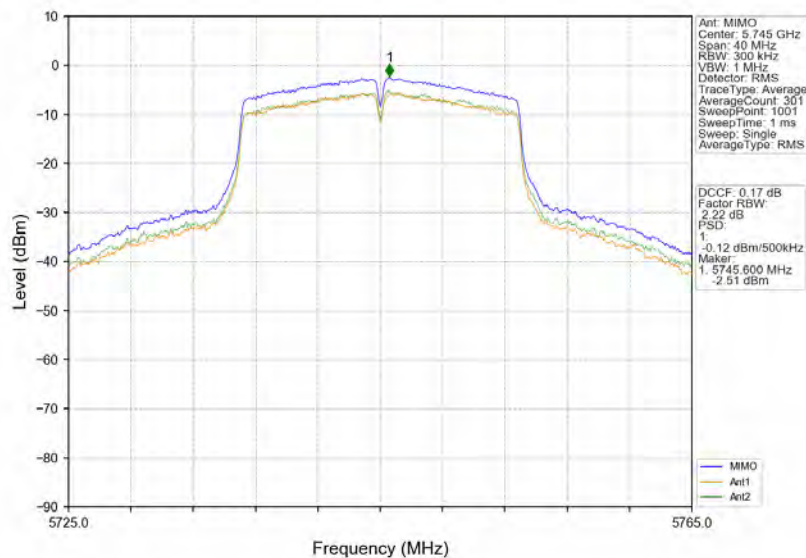
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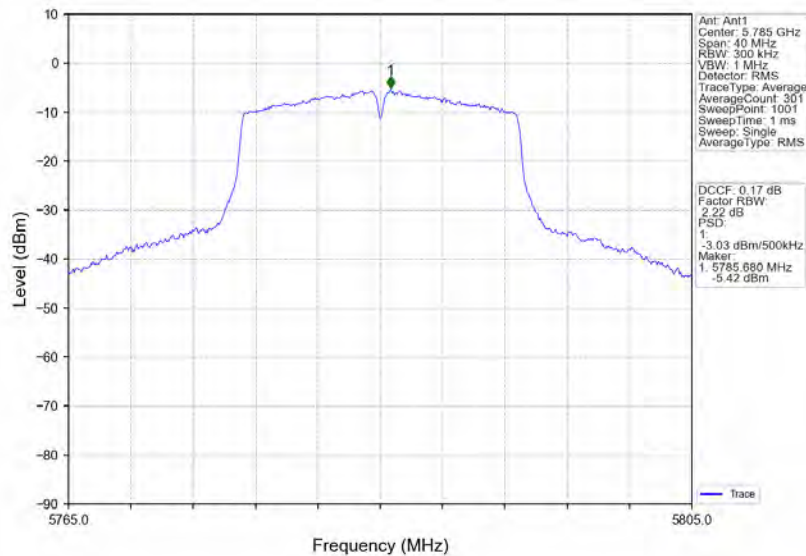
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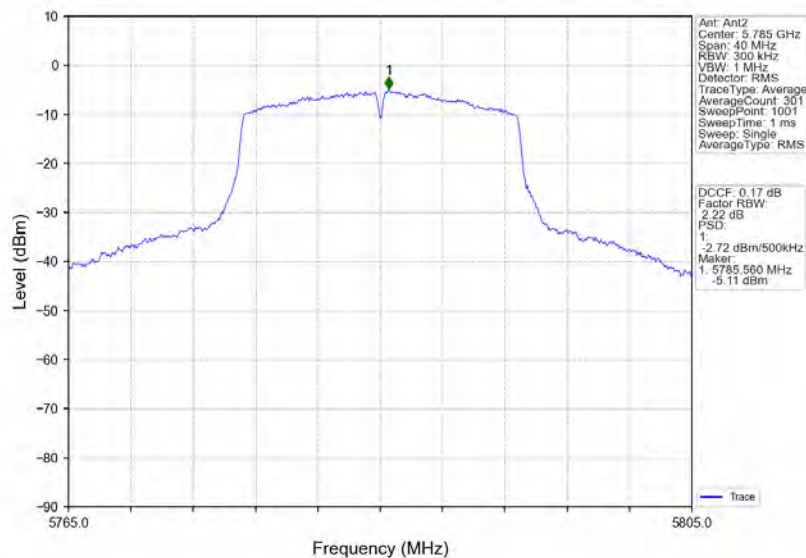
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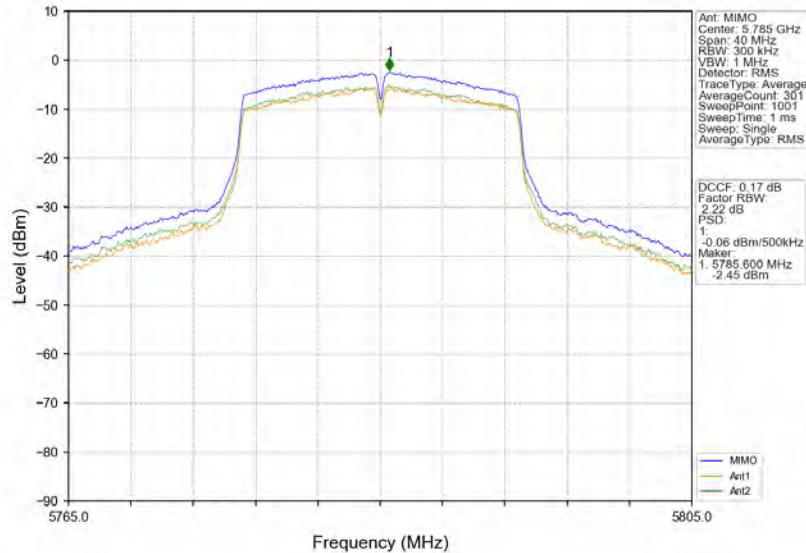
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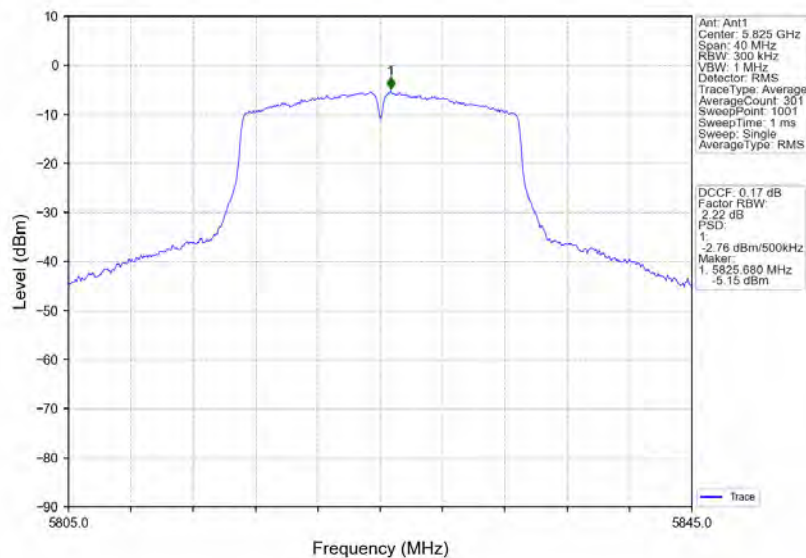
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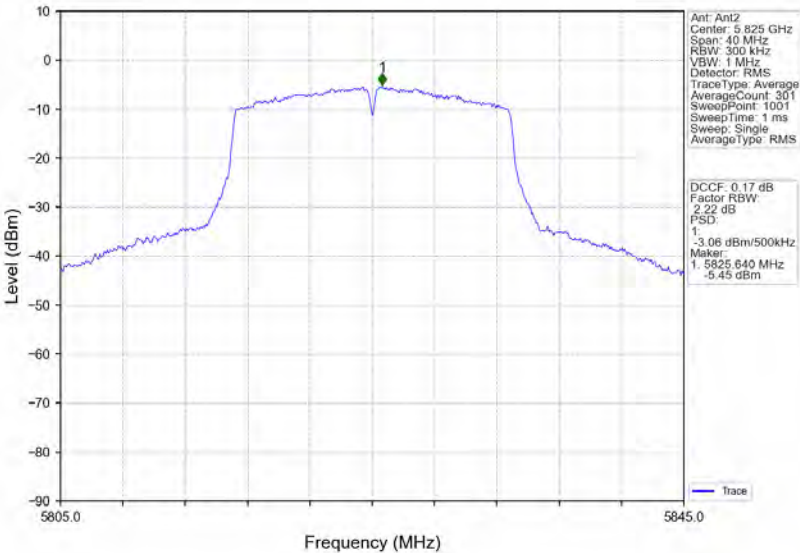
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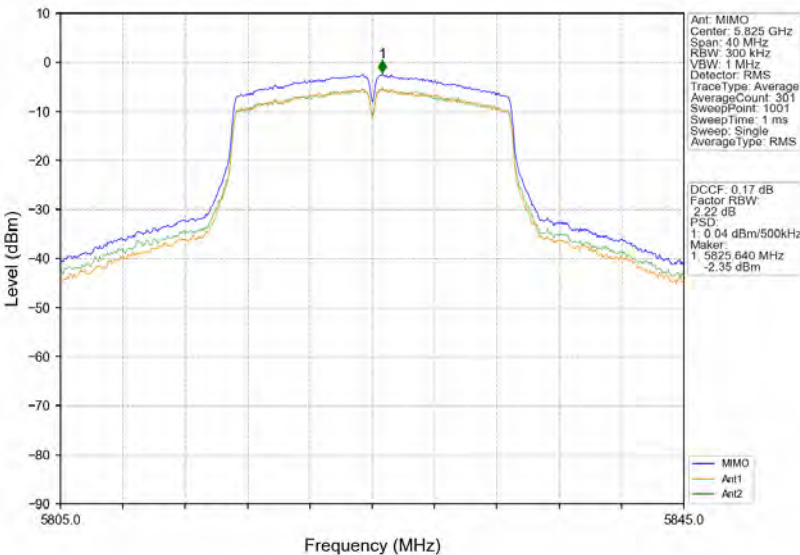
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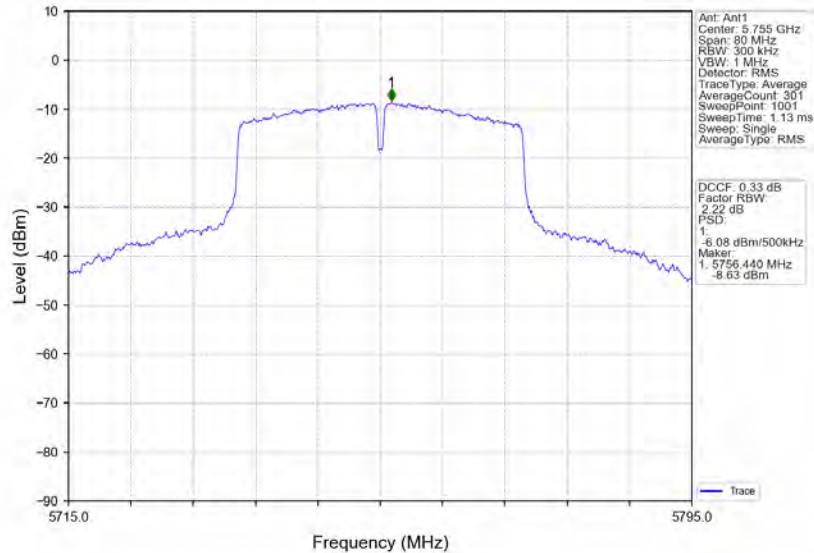
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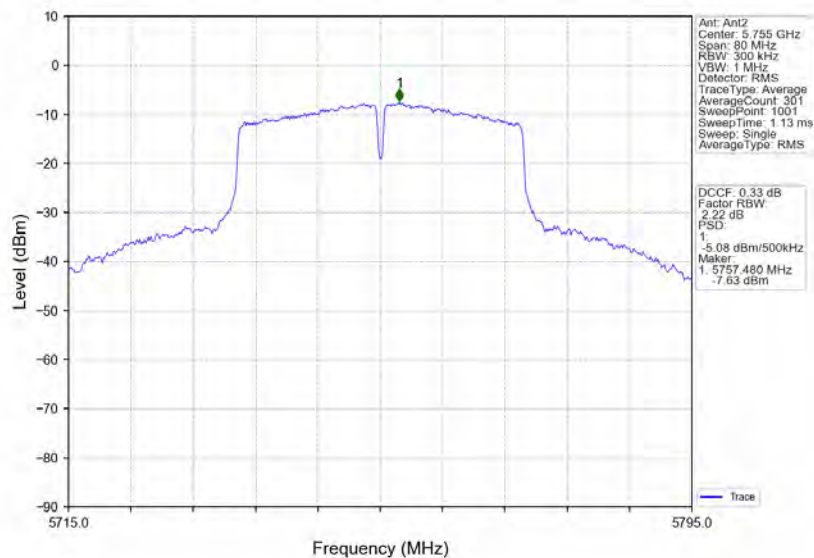
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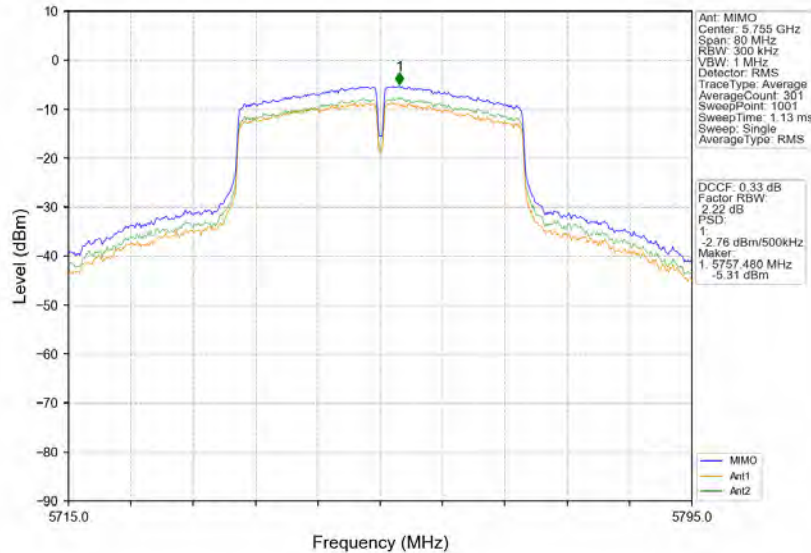
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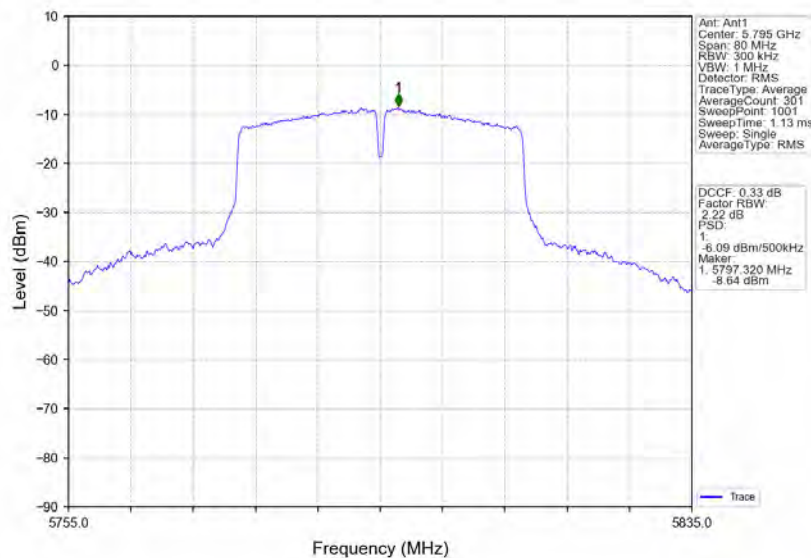
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802.11ac(VHT40)_HCH_5795MHz_Ant3_NTNV



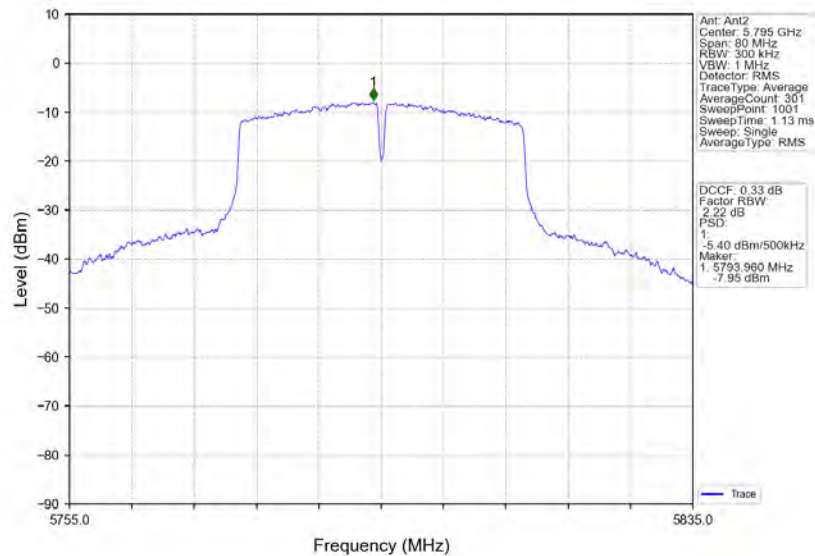
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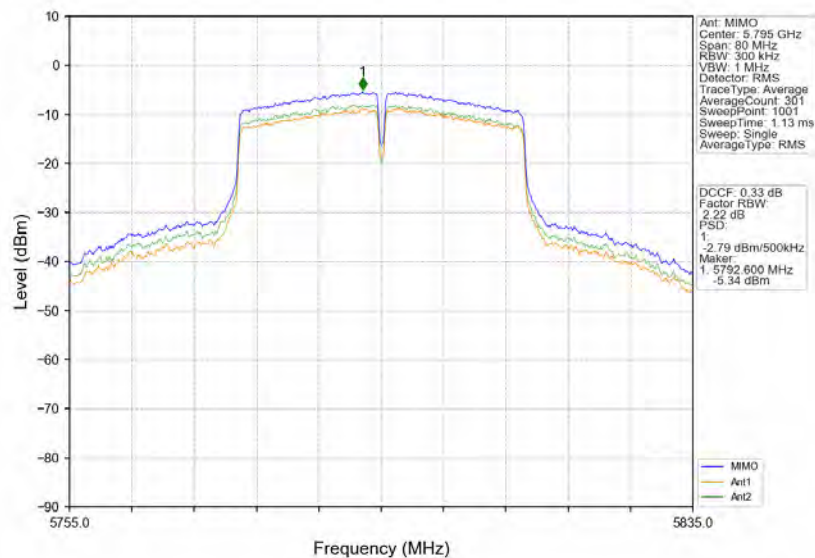
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802.11ac(VHT40)_HCH_5795MHz_Ant4_NTNV



802.11ac(VHT40)_HCH_5795MHz_MIMO_NTNV



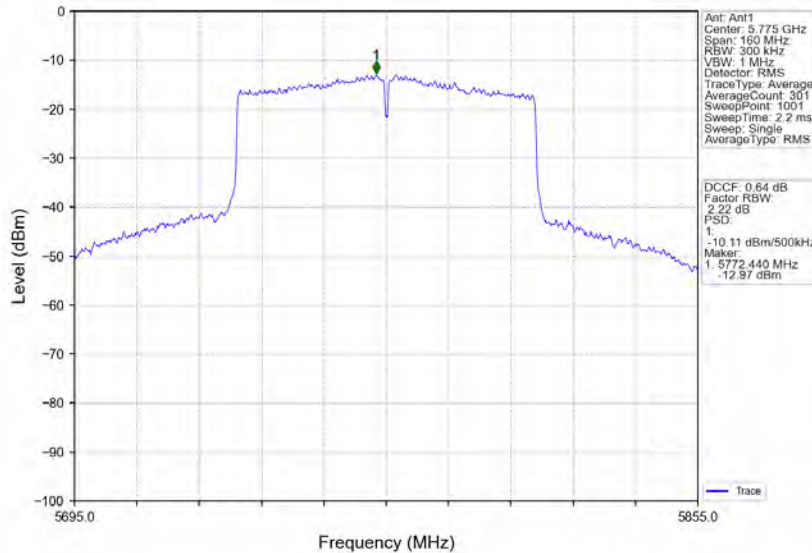
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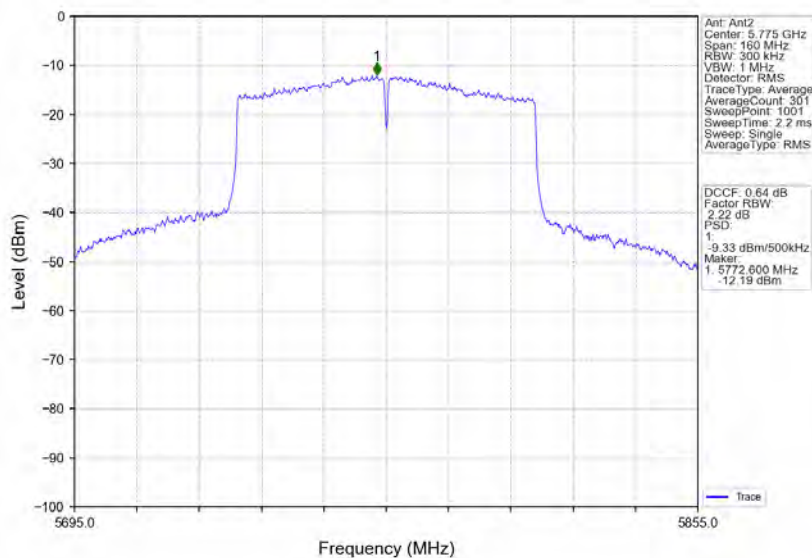
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802.11ac(VHT80)_MCH_5775MHz_Ant3_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant4_NTNV



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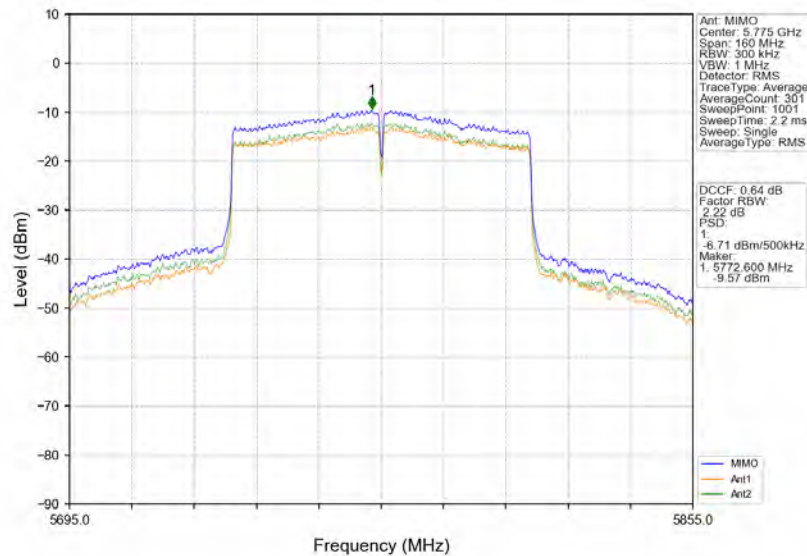
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802.11ac(VHT80)_MCH_5775MHz_MIMO_NTNV



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5. Frequency Stability

5.1 Ant3

5.1.1 Test Result

Ant3							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	102	5179.900	5150 to 5250	Pass
				120	5179.980	5150 to 5250	Pass
				138	5180.000	5150 to 5250	Pass
			-30	120	5179.960	5150 to 5250	Pass
				120	5179.920	5150 to 5250	Pass
				120	5180.060	5150 to 5250	Pass
			0	120	5180.000	5150 to 5250	Pass
				120	5179.880	5150 to 5250	Pass
				120	5179.940	5150 to 5250	Pass
			40	120	5179.940	5150 to 5250	Pass
				120	5179.940	5150 to 5250	Pass
				120	5179.940	5150 to 5250	Pass
		5200	20	102	5199.940	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
				138	5199.940	5150 to 5250	Pass
			-30	120	5200.060	5150 to 5250	Pass
				120	5199.940	5150 to 5250	Pass
				120	5200.000	5150 to 5250	Pass
			0	120	5200.000	5150 to 5250	Pass
				120	5199.980	5150 to 5250	Pass
				120	5200.060	5150 to 5250	Pass
			40	120	5200.020	5150 to 5250	Pass
				120	5199.960	5150 to 5250	Pass
				120	5199.960	5150 to 5250	Pass
		5240	20	102	5239.960	5150 to 5250	Pass
				120	5239.900	5150 to 5250	Pass
				138	5239.920	5150 to 5250	Pass
			-30	120	5240.040	5150 to 5250	Pass
				120	5239.940	5150 to 5250	Pass
				120	5239.940	5150 to 5250	Pass
			0	120	5239.940	5150 to 5250	Pass
				120	5239.960	5150 to 5250	Pass



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Report No.: KSCR220800157006

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			30	120	5239.980	5150 to 5250	Pass
			40	120	5239.920	5150 to 5250	Pass
			50	120	5240.000	5150 to 5250	Pass
		5745	20	102	5744.940	5725 to 5850	Pass
				120	5744.900	5725 to 5850	Pass
				138	5744.960	5725 to 5850	Pass
			-30	120	5744.960	5725 to 5850	Pass
			-20	120	5744.960	5725 to 5850	Pass
			-10	120	5744.940	5725 to 5850	Pass
			0	120	5744.960	5725 to 5850	Pass
			10	120	5744.880	5725 to 5850	Pass
			30	120	5744.880	5725 to 5850	Pass
			40	120	5744.920	5725 to 5850	Pass
			50	120	5744.940	5725 to 5850	Pass
		5785	20	102	5784.940	5725 to 5850	Pass
				120	5784.940	5725 to 5850	Pass
				138	5784.920	5725 to 5850	Pass
			-30	120	5784.900	5725 to 5850	Pass
			-20	120	5784.900	5725 to 5850	Pass
			-10	120	5784.960	5725 to 5850	Pass
			0	120	5784.940	5725 to 5850	Pass
			10	120	5784.960	5725 to 5850	Pass
			30	120	5784.880	5725 to 5850	Pass
			40	120	5784.940	5725 to 5850	Pass
			50	120	5784.900	5725 to 5850	Pass
		5825	20	102	5824.960	5725 to 5850	Pass
				120	5824.940	5725 to 5850	Pass
				138	5824.940	5725 to 5850	Pass
			-30	120	5824.920	5725 to 5850	Pass
			-20	120	5824.960	5725 to 5850	Pass
			-10	120	5824.920	5725 to 5850	Pass
			0	120	5824.880	5725 to 5850	Pass
			10	120	5824.980	5725 to 5850	Pass
			30	120	5824.920	5725 to 5850	Pass
			40	120	5824.980	5725 to 5850	Pass
			50	120	5824.900	5725 to 5850	Pass
802.11n (HT20)	MIMO	5180	20	102	5179.980	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
				138	5180.020	5150 to 5250	Pass



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			-30	120	5180.020	5150 to 5250	Pass
			-20	120	5179.980	5150 to 5250	Pass
			-10	120	5180.020	5150 to 5250	Pass
			0	120	5180.000	5150 to 5250	Pass
			10	120	5180.000	5150 to 5250	Pass
			30	120	5180.040	5150 to 5250	Pass
			40	120	5180.040	5150 to 5250	Pass
			50	120	5180.020	5150 to 5250	Pass
		5200	20	102	5200.040	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
				138	5200.020	5150 to 5250	Pass
			-30	120	5200.000	5150 to 5250	Pass
			-20	120	5200.020	5150 to 5250	Pass
			-10	120	5200.040	5150 to 5250	Pass
			0	120	5200.040	5150 to 5250	Pass
			10	120	5200.040	5150 to 5250	Pass
			30	120	5200.020	5150 to 5250	Pass
			40	120	5200.000	5150 to 5250	Pass
			50	120	5200.020	5150 to 5250	Pass
		5240	20	102	5240.040	5150 to 5250	Pass
				120	5240.000	5150 to 5250	Pass
				138	5240.040	5150 to 5250	Pass
			-30	120	5240.000	5150 to 5250	Pass
			-20	120	5240.040	5150 to 5250	Pass
			-10	120	5240.020	5150 to 5250	Pass
			0	120	5240.040	5150 to 5250	Pass
			10	120	5240.020	5150 to 5250	Pass
			30	120	5240.000	5150 to 5250	Pass
			40	120	5240.020	5150 to 5250	Pass
			50	120	5240.020	5150 to 5250	Pass
		5745	20	102	5744.980	5725 to 5850	Pass
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			30	120	5744.980	5725 to 5850	Pass



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			50	120	5745.000	5725 to 5850	Pass
		5785	20	102	5785.020	5725 to 5850	Pass
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			-20	120	5784.980	5725 to 5850	Pass
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			40	120	5785.020	5725 to 5850	Pass
			50	120	5785.000	5725 to 5850	Pass
		5825	20	102	5825.000	5725 to 5850	Pass
				120	5825.000	5725 to 5850	Pass
				138	5825.000	5725 to 5850	Pass
			-30	120	5825.000	5725 to 5850	Pass
			-20	120	5825.020	5725 to 5850	Pass
			-10	120	5825.020	5725 to 5850	Pass
			0	120	5825.020	5725 to 5850	Pass
			10	120	5825.000	5725 to 5850	Pass
			30	120	5825.040	5725 to 5850	Pass
			40	120	5825.040	5725 to 5850	Pass
			50	120	5825.020	5725 to 5850	Pass
802.11n (HT40)	MIMO	5190	20	102	5190.080	5150 to 5250	Pass
				120	5190.040	5150 to 5250	Pass
				138	5190.080	5150 to 5250	Pass
			-30	120	5190.120	5150 to 5250	Pass
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				120	5230.080	5150 to 5250	Pass
				138	5230.040	5150 to 5250	Pass
			-30	120	5230.080	5150 to 5250	Pass



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			-20	120	5230.080	5150 to 5250	Pass
			-10	120	5230.080	5150 to 5250	Pass
			0	120	5230.080	5150 to 5250	Pass
			10	120	5230.080	5150 to 5250	Pass
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			40	120	5230.040	5150 to 5250	Pass
			50	120	5230.080	5150 to 5250	Pass
		5755	20	102	5755.080	5725 to 5850	Pass
				120	5755.080	5725 to 5850	Pass
				138	5755.080	5725 to 5850	Pass
			-30	120	5755.040	5725 to 5850	Pass
			-20	120	5755.080	5725 to 5850	Pass
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		5795	20	102	5795.120	5725 to 5850	Pass
				120	5795.080	5725 to 5850	Pass
				138	5795.080	5725 to 5850	Pass
			-30	120	5795.080	5725 to 5850	Pass
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				120	5180.040	5150 to 5250	Pass
				138	5180.000	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass
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			-10	120	5180.040	5150 to 5250	Pass
			0	120	5180.020	5150 to 5250	Pass
			10	120	5180.020	5150 to 5250	Pass
			30	120	5180.060	5150 to 5250	Pass
			40	120	5180.020	5150 to 5250	Pass



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t:(86-512)57355888 f:(86-512)57370818 www.sgsgroup.com.cn
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Compliance Certification Services (Kunshan) Inc.

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		5200	50	120	5180.020	5150 to 5250	Pass
			20	102	5200.020	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
				138	5200.020	5150 to 5250	Pass
			-30	120	5200.040	5150 to 5250	Pass
			-20	120	5200.020	5150 to 5250	Pass
			-10	120	5200.060	5150 to 5250	Pass
			0	120	5200.040	5150 to 5250	Pass
			10	120	5200.020	5150 to 5250	Pass
			30	120	5200.040	5150 to 5250	Pass
			40	120	5200.020	5150 to 5250	Pass
			50	120	5200.040	5150 to 5250	Pass
		5240	20	102	5240.020	5150 to 5250	Pass
				120	5240.000	5150 to 5250	Pass
				138	5240.020	5150 to 5250	Pass
			-30	120	5240.020	5150 to 5250	Pass
			-20	120	5240.020	5150 to 5250	Pass
			-10	120	5240.000	5150 to 5250	Pass
			0	120	5240.020	5150 to 5250	Pass
			10	120	5240.020	5150 to 5250	Pass
			30	120	5240.020	5150 to 5250	Pass
			40	120	5240.020	5150 to 5250	Pass
			50	120	5240.020	5150 to 5250	Pass
		5745	20	102	5745.000	5725 to 5850	Pass
				120	5745.000	5725 to 5850	Pass
				138	5745.020	5725 to 5850	Pass
			-30	120	5745.000	5725 to 5850	Pass
			-20	120	5745.040	5725 to 5850	Pass
			-10	120	5745.000	5725 to 5850	Pass
			0	120	5745.020	5725 to 5850	Pass
			10	120	5745.000	5725 to 5850	Pass
			30	120	5744.980	5725 to 5850	Pass
			40	120	5745.000	5725 to 5850	Pass
			50	120	5745.000	5725 to 5850	Pass
		5785	20	102	5785.020	5725 to 5850	Pass
				120	5785.000	5725 to 5850	Pass
				138	5785.000	5725 to 5850	Pass
			-30	120	5785.020	5725 to 5850	Pass
			-20	120	5785.020	5725 to 5850	Pass



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			-10	120	5785.020	5725 to 5850	Pass
			0	120	5785.020	5725 to 5850	Pass
			10	120	5785.020	5725 to 5850	Pass
			30	120	5785.000	5725 to 5850	Pass
			40	120	5785.000	5725 to 5850	Pass
			50	120	5785.020	5725 to 5850	Pass
		5825	20	102	5825.000	5725 to 5850	Pass
				120	5825.000	5725 to 5850	Pass
				138	5825.020	5725 to 5850	Pass
			-30	120	5825.020	5725 to 5850	Pass
			-20	120	5825.020	5725 to 5850	Pass
			-10	120	5825.020	5725 to 5850	Pass
			0	120	5825.000	5725 to 5850	Pass
			10	120	5825.000	5725 to 5850	Pass
			30	120	5824.980	5725 to 5850	Pass
			40	120	5825.000	5725 to 5850	Pass
			50	120	5825.000	5725 to 5850	Pass
802.11ac (VHT40)	MIMO	5190	20	102	5190.080	5150 to 5250	Pass
				120	5190.120	5150 to 5250	Pass
				138	5190.040	5150 to 5250	Pass
			-30	120	5190.080	5150 to 5250	Pass
			-20	120	5190.040	5150 to 5250	Pass
			-10	120	5190.120	5150 to 5250	Pass
			0	120	5190.120	5150 to 5250	Pass
			10	120	5190.080	5150 to 5250	Pass
			30	120	5190.080	5150 to 5250	Pass
			40	120	5190.120	5150 to 5250	Pass
			50	120	5190.080	5150 to 5250	Pass
		5230	20	102	5230.040	5150 to 5250	Pass
				120	5230.080	5150 to 5250	Pass
				138	5230.040	5150 to 5250	Pass
			-30	120	5230.080	5150 to 5250	Pass
			-20	120	5230.040	5150 to 5250	Pass
			-10	120	5230.040	5150 to 5250	Pass
			0	120	5230.080	5150 to 5250	Pass
			10	120	5230.040	5150 to 5250	Pass
			30	120	5230.080	5150 to 5250	Pass
			40	120	5230.080	5150 to 5250	Pass
			50	120	5230.040	5150 to 5250	Pass



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		5755	20	102	5755.000	5725 to 5850	Pass
				120	5755.000	5725 to 5850	Pass
				138	5755.040	5725 to 5850	Pass
			-30	120	5755.040	5725 to 5850	Pass
			-20	120	5755.040	5725 to 5850	Pass
			-10	120	5755.040	5725 to 5850	Pass
			0	120	5755.000	5725 to 5850	Pass
			10	120	5755.080	5725 to 5850	Pass
			30	120	5755.040	5725 to 5850	Pass
			40	120	5755.040	5725 to 5850	Pass
			50	120	5755.040	5725 to 5850	Pass
		5795	20	102	5795.080	5725 to 5850	Pass
				120	5795.080	5725 to 5850	Pass
				138	5795.040	5725 to 5850	Pass
			-30	120	5795.080	5725 to 5850	Pass
			-20	120	5795.080	5725 to 5850	Pass
			-10	120	5795.000	5725 to 5850	Pass
			0	120	5795.080	5725 to 5850	Pass
			10	120	5795.120	5725 to 5850	Pass
			30	120	5795.080	5725 to 5850	Pass
			40	120	5795.120	5725 to 5850	Pass
			50	120	5795.040	5725 to 5850	Pass
802.11ac (VHT80)	MIMO	5210	20	102	5210.075	5150 to 5250	Pass
				120	5210.075	5150 to 5250	Pass
				138	5210.075	5150 to 5250	Pass
			-30	120	5210.075	5150 to 5250	Pass
			-20	120	5210.075	5150 to 5250	Pass
			-10	120	5210.075	5150 to 5250	Pass
			0	120	5210.075	5150 to 5250	Pass
			10	120	5210.075	5150 to 5250	Pass
			30	120	5210.075	5150 to 5250	Pass
			40	120	5210.075	5150 to 5250	Pass
			50	120	5210.150	5150 to 5250	Pass
		5775	20	102	5775.075	5725 to 5850	Pass
				120	5775.075	5725 to 5850	Pass
				138	5775.075	5725 to 5850	Pass
			-30	120	5775.075	5725 to 5850	Pass
			-20	120	5775.075	5725 to 5850	Pass
			-10	120	5775.000	5725 to 5850	Pass



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			0	120	5775.000	5725 to 5850	Pass
			10	120	5775.075	5725 to 5850	Pass
			30	120	5775.075	5725 to 5850	Pass
			40	120	5775.000	5725 to 5850	Pass
			50	120	5775.075	5725 to 5850	Pass

- End of the Report -



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