

Appendix D for KSCR220600092404

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

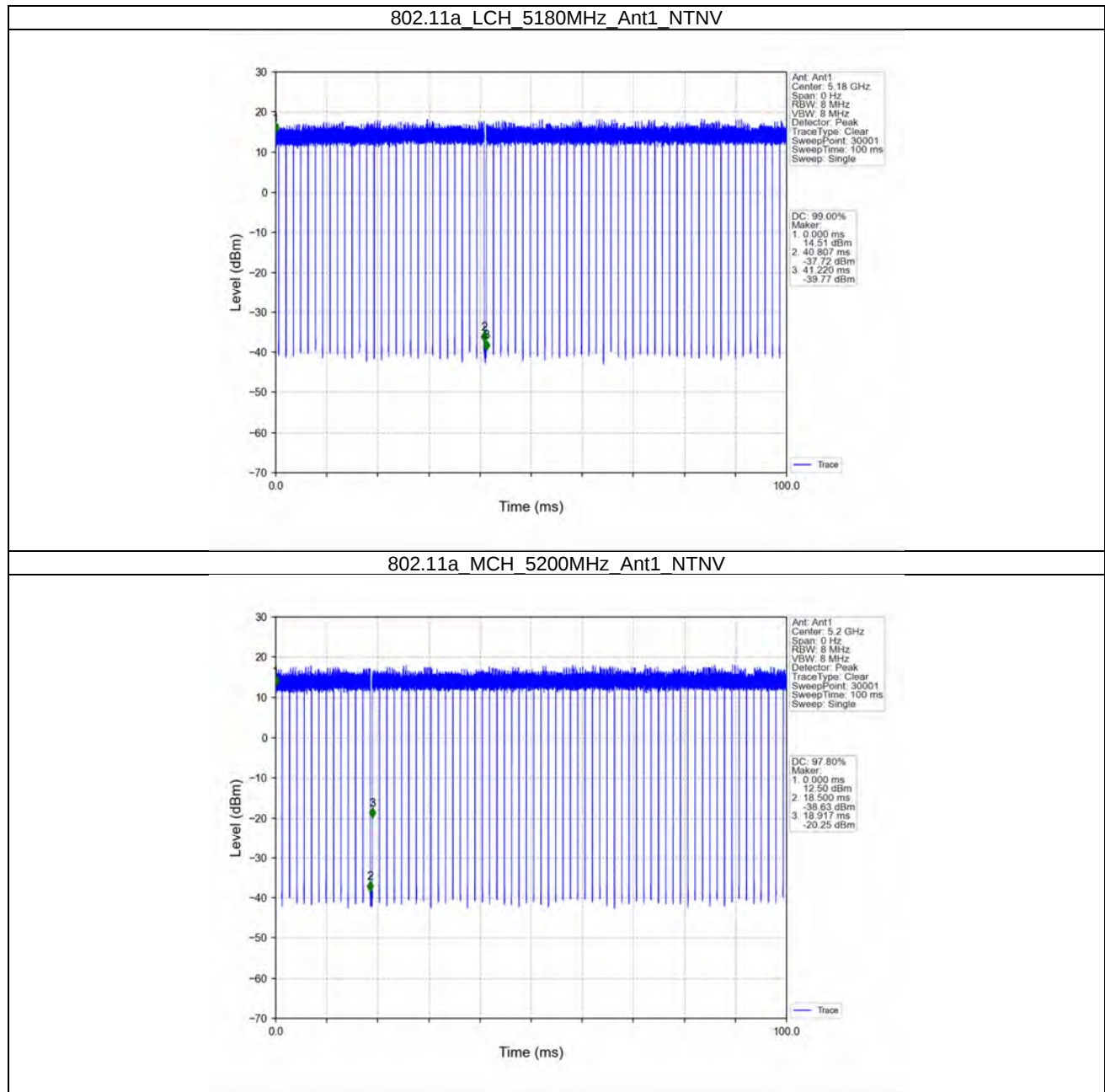
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	40.807	41.220	99.00	0.04	0.00
		5200	18.500	18.917	97.80	0.10	0.00
		5240	30.733	31.150	98.66	0.06	0.00
		5745	28.714	29.150	98.50	0.07	0.00
		5785	33.010	33.427	98.75	0.05	0.00
		5825	61.807	62.247	99.29	0.03	0.00
802.11n (HT20)	MIMO	5180	1.303	1.345	96.88	0.14	0.03
		5200	1.303	1.345	96.88	0.14	0.03
		5240	1.303	1.345	96.88	0.14	0.03
		5745	1.303	1.345	96.88	0.14	0.03
		5785	1.303	1.345	96.88	0.14	0.03
		5825	1.303	1.345	96.88	0.14	0.03
802.11n (HT40)	MIMO	5190	66.434	67.077	99.04	0.04	0.00
		5230	42.363	43.023	98.47	0.07	0.00
		5755	49.140	49.790	98.69	0.06	0.00
		5795	95.213	95.860	99.33	0.03	0.00
802.11ac (VHT20)	MIMO	5180	9.063	9.737	93.08	0.31	0.00
		5200	14.697	15.340	95.81	0.19	0.00
		5240	33.873	34.543	98.06	0.09	0.00
		5745	92.787	93.433	99.31	0.03	0.00
		5785	73.763	74.433	99.10	0.04	0.00
		5825	39.693	40.363	98.34	0.07	0.00
802.11ac (VHT40)	MIMO	5190	0.655	0.696	94.11	0.26	0.00
		5230	0.654	0.696	93.97	0.27	0.00
		5755	0.654	0.696	93.97	0.27	0.03
		5795	0.654	0.696	93.97	0.27	0.03
802.11ac (VHT80)	MIMO	5210	0.325	0.367	88.56	0.53	0.04
		5775	0.326	0.368	88.59	0.53	0.07



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1.1.2 Test Graph



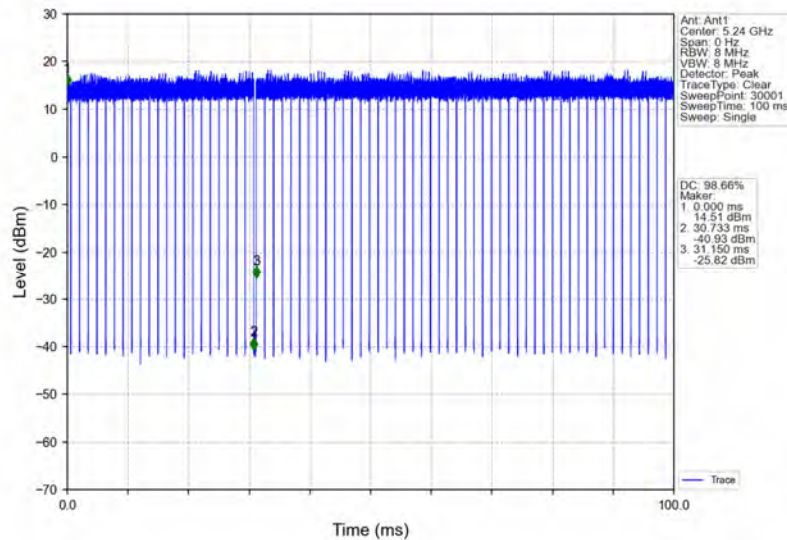
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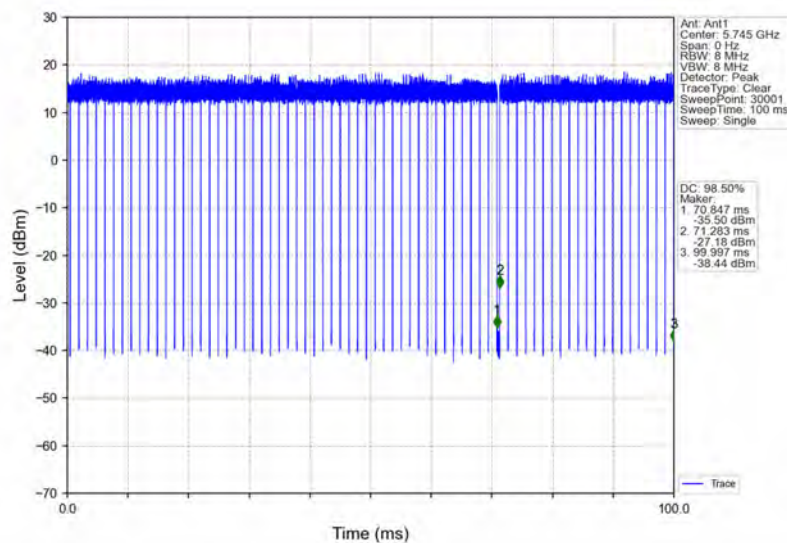
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



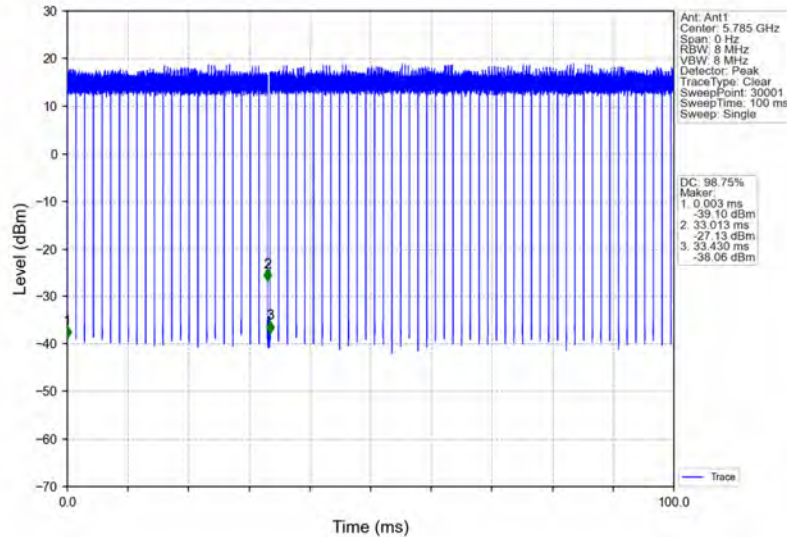
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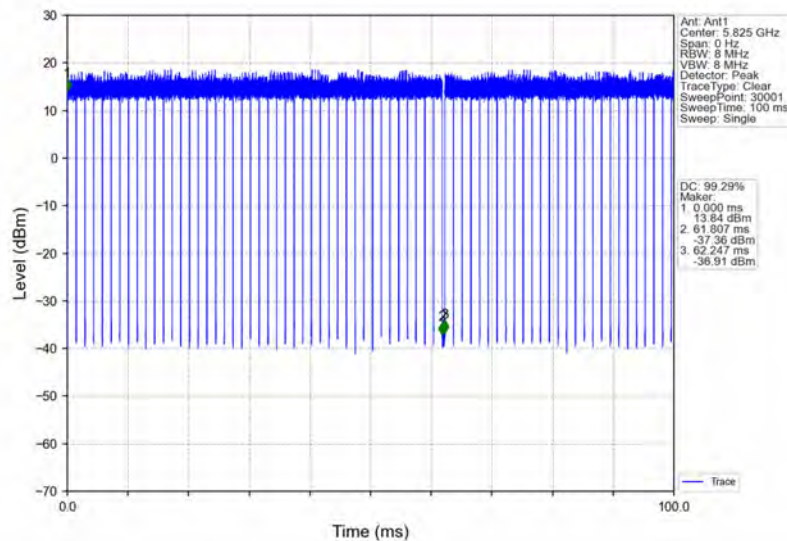
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



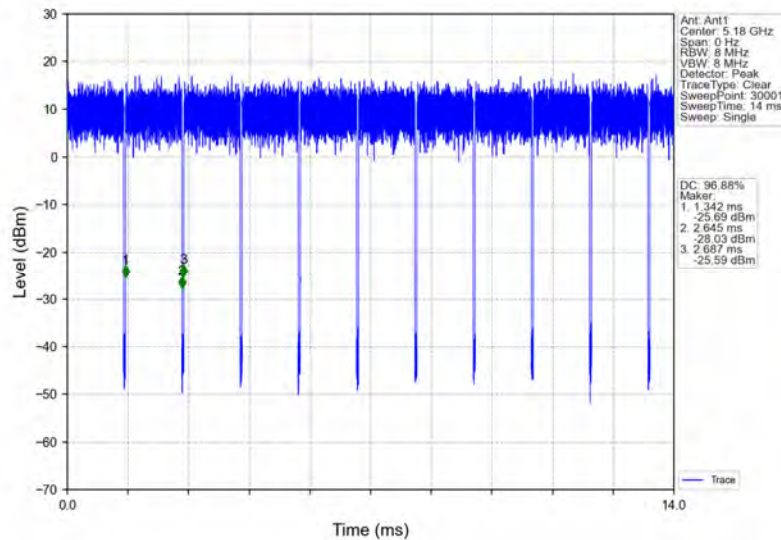
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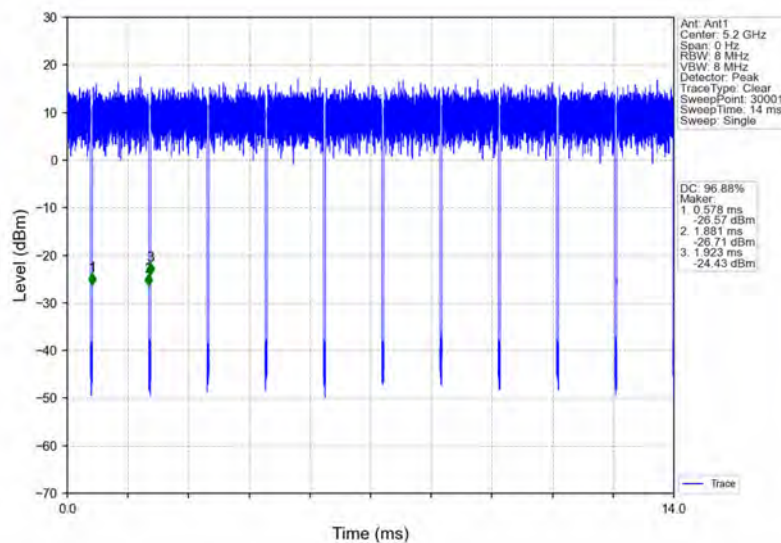
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



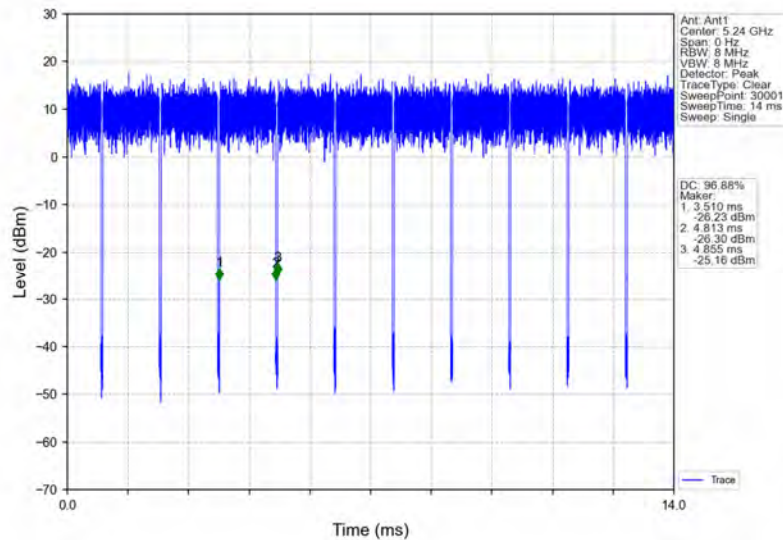
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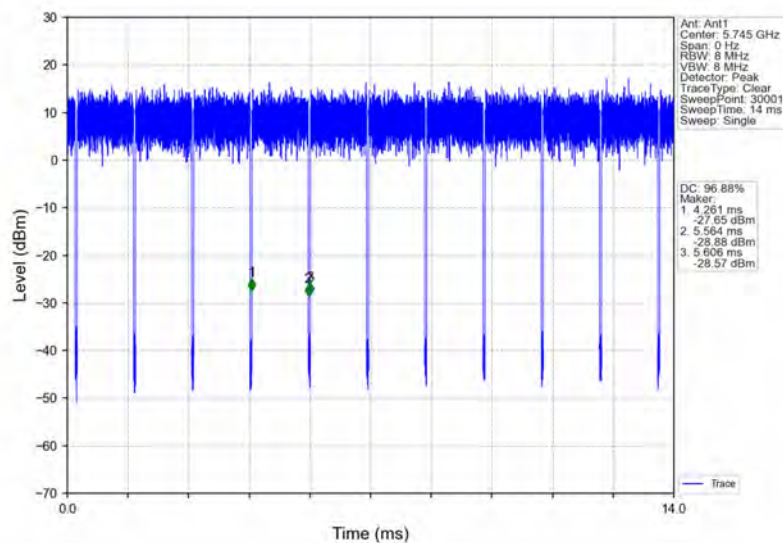
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



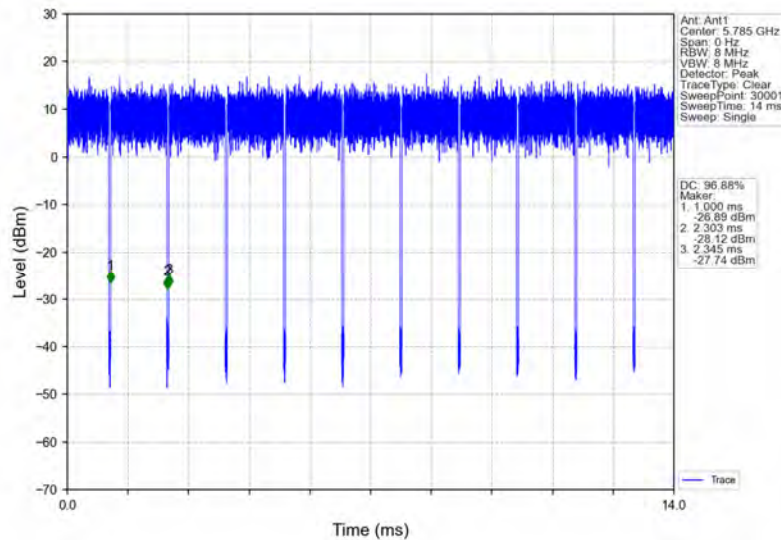
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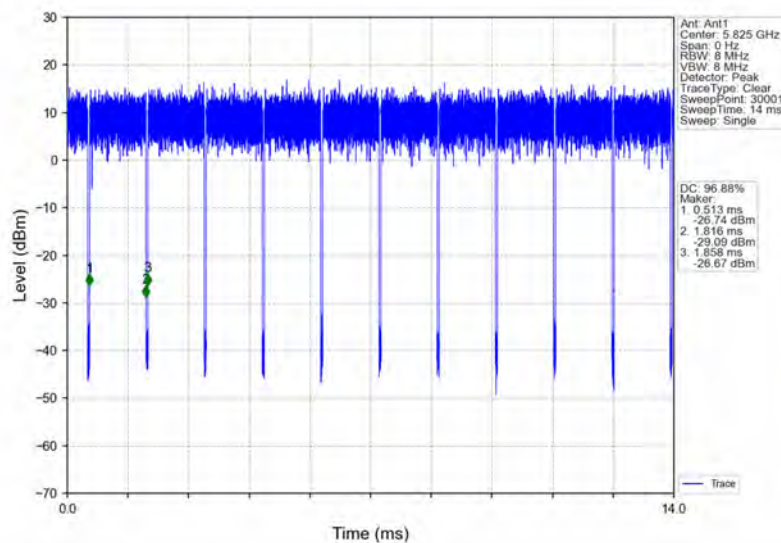
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



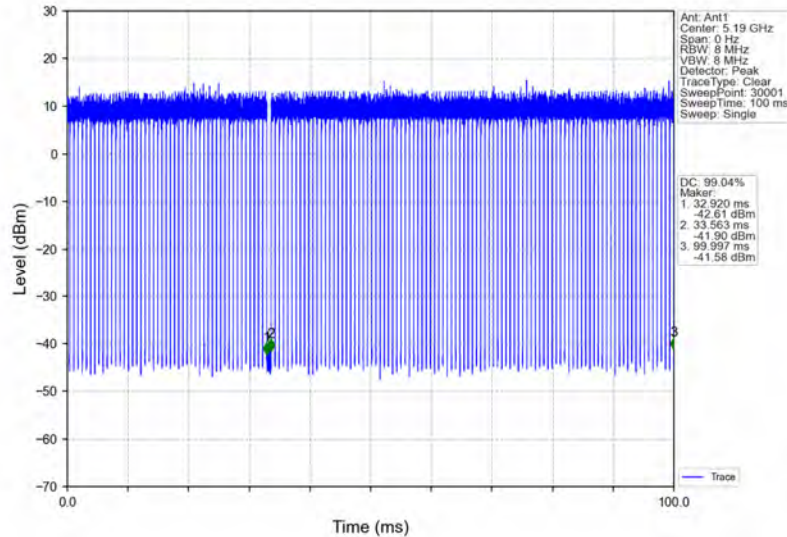
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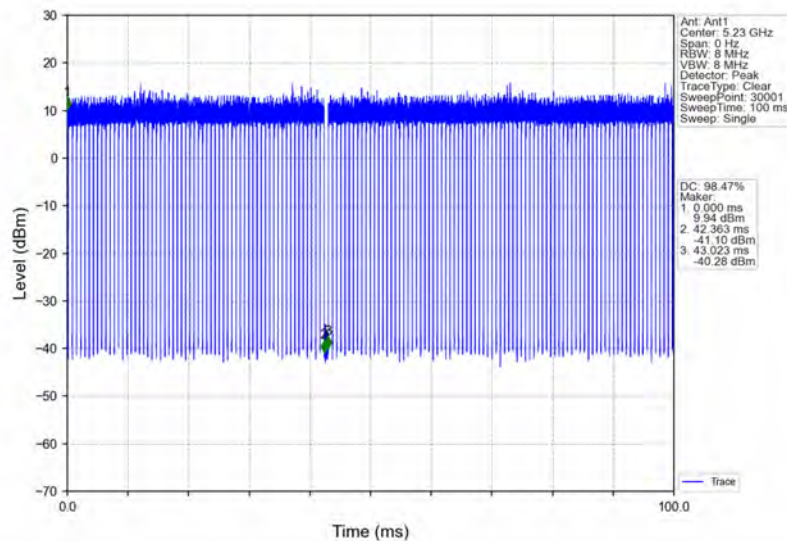
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



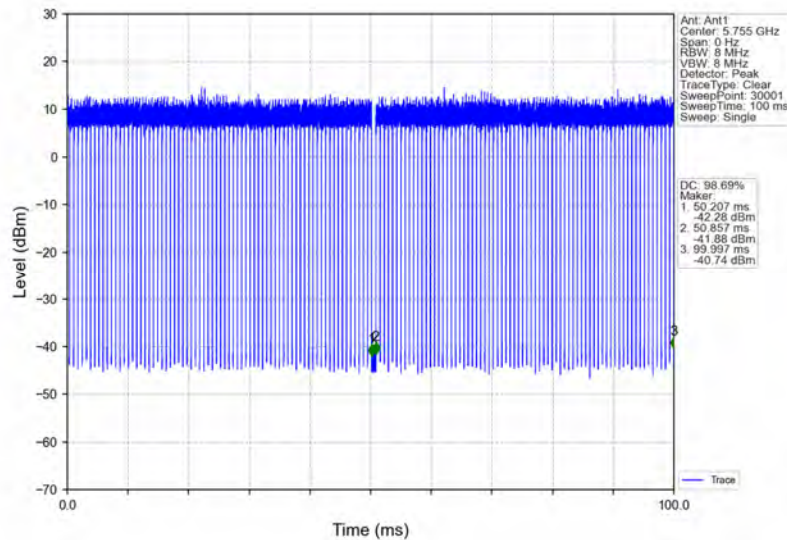
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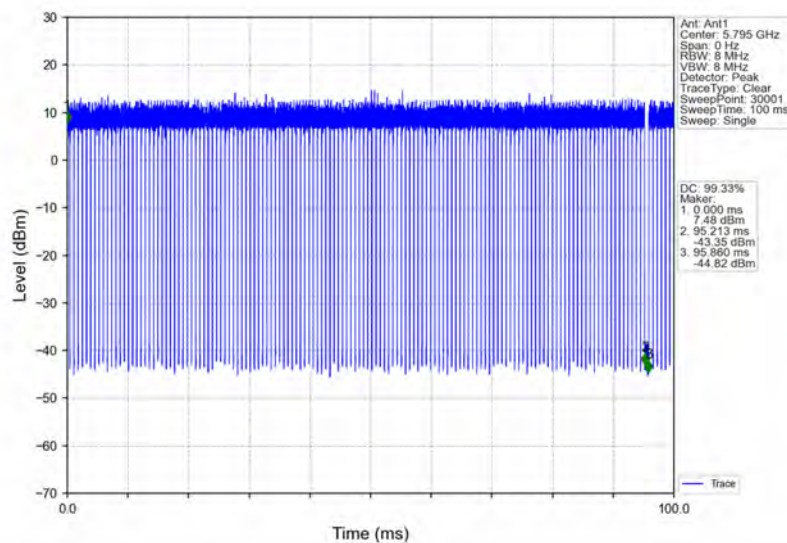
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



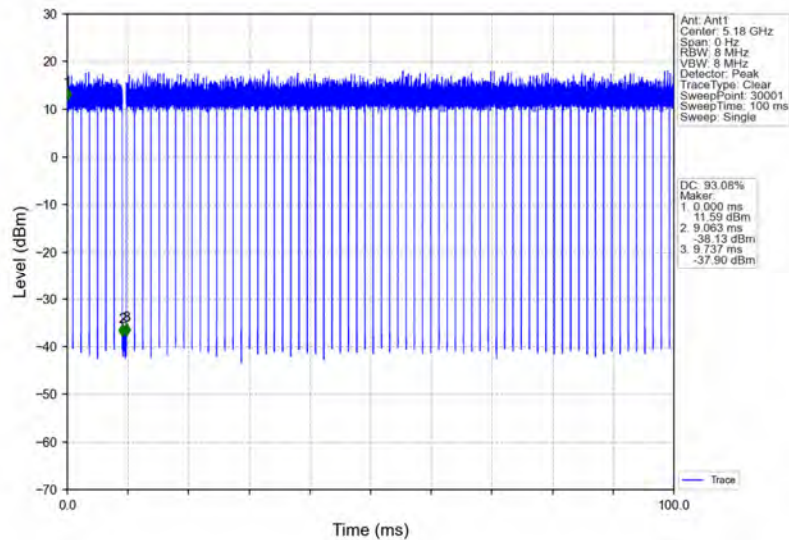
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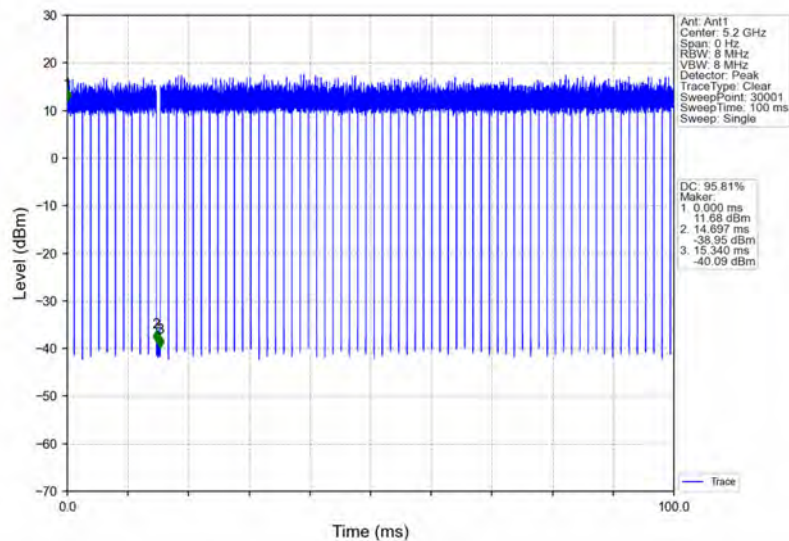
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



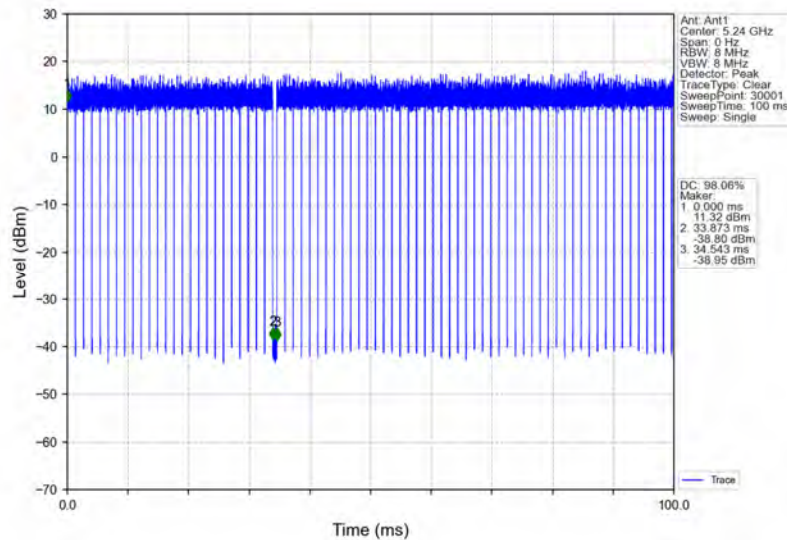
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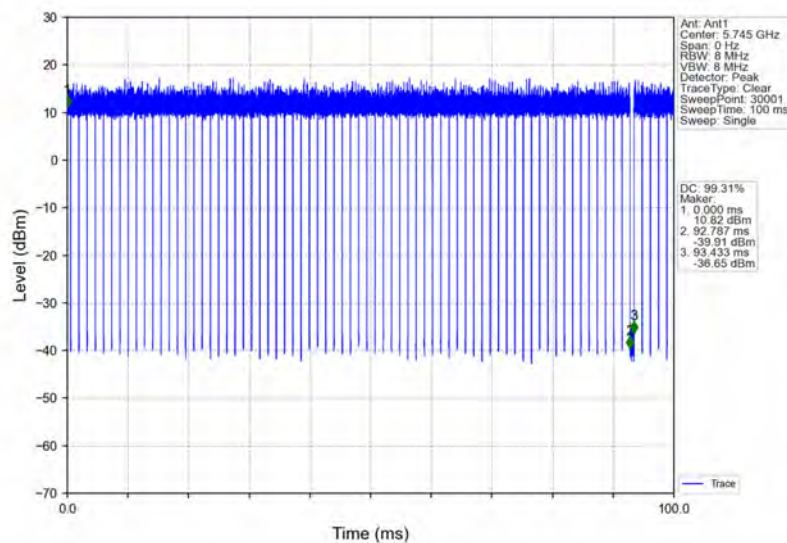
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



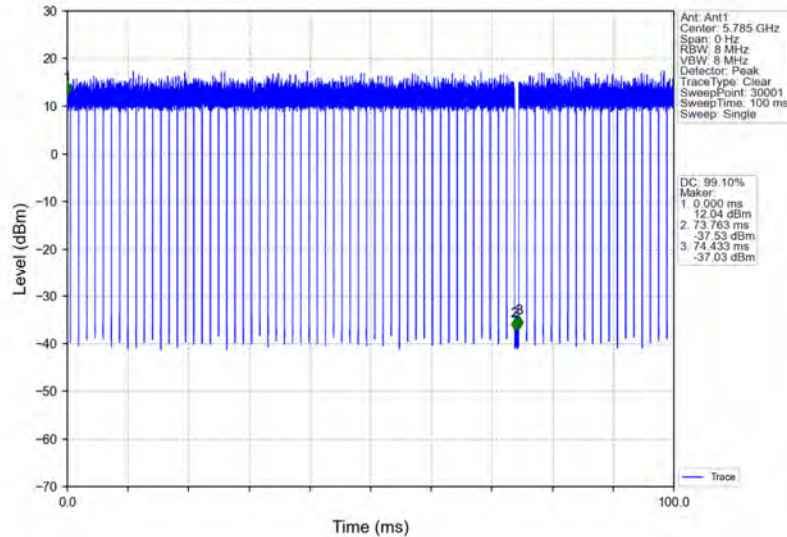
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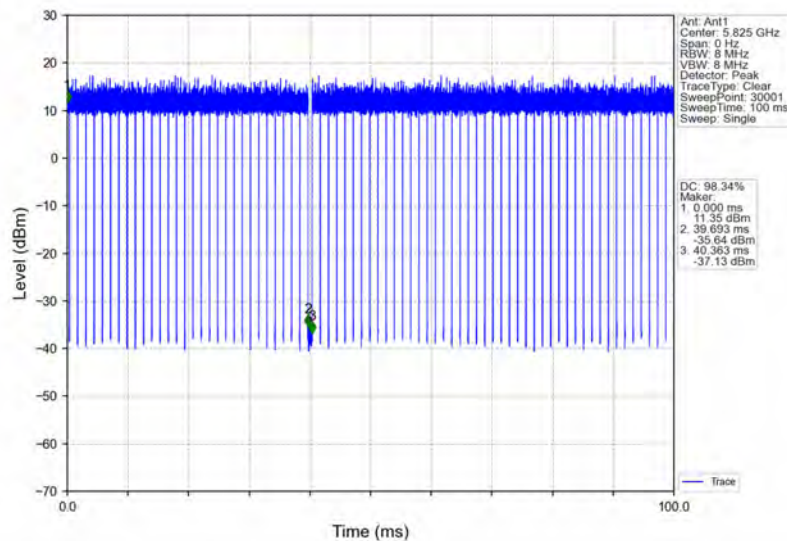
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



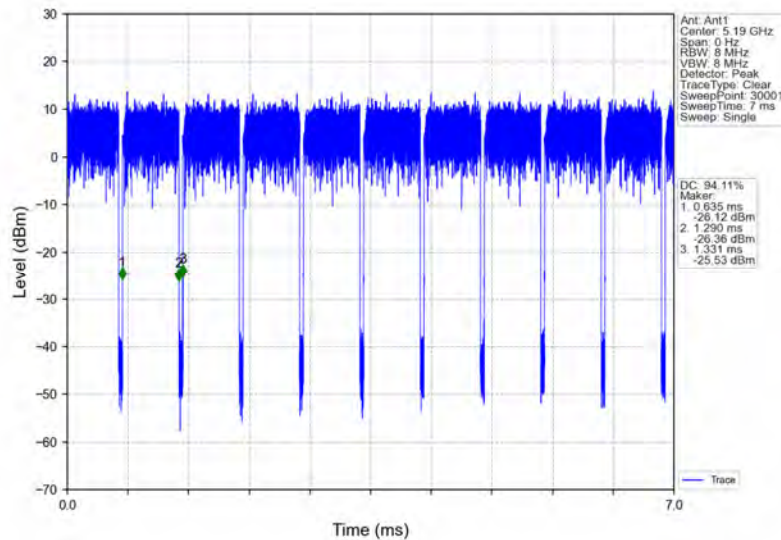
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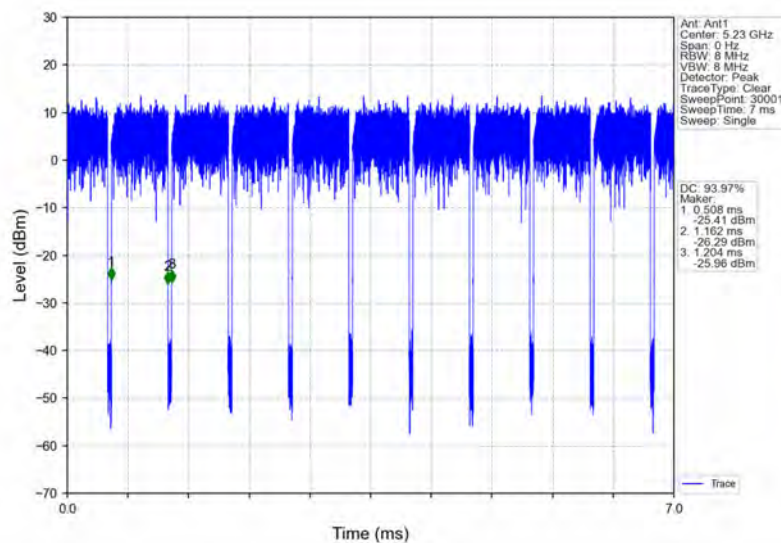
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



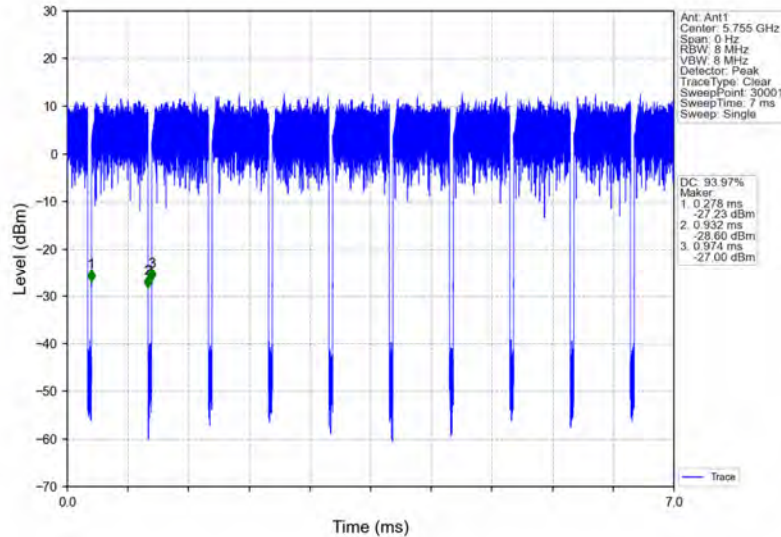
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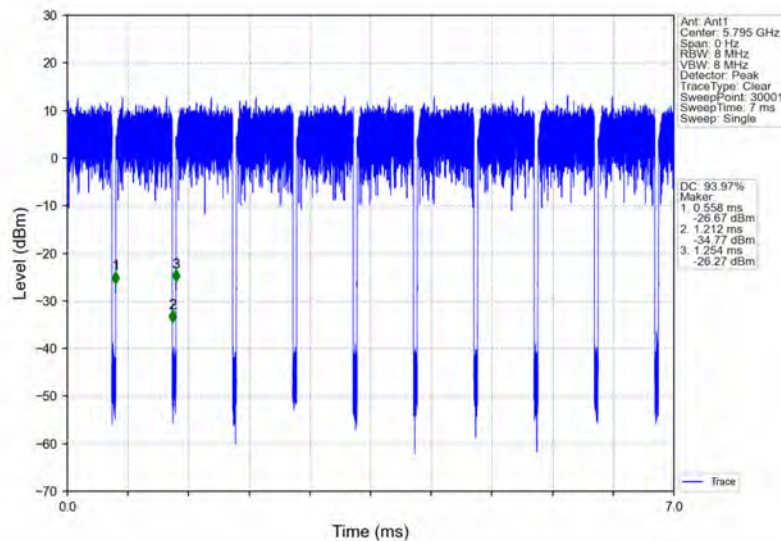
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



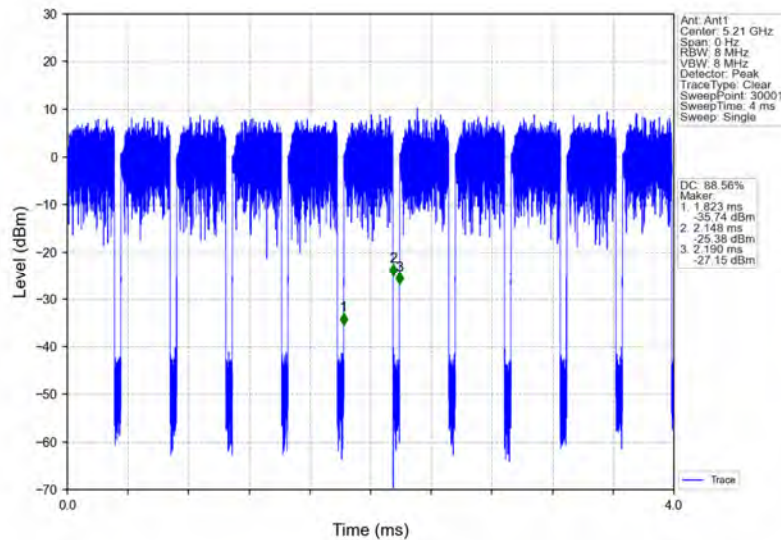
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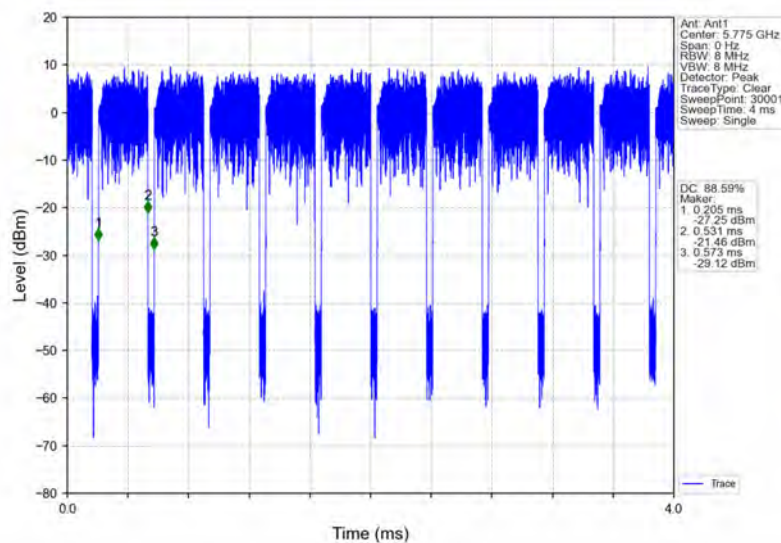
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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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	17.208	Pass
			2	17.320	Pass
		5200	1	17.242	Pass
			2	17.302	Pass
		5240	1	17.253	Pass
			2	17.327	Pass
		5745	1	17.308	Pass
			2	17.343	Pass
		5785	1	17.333	Pass
			2	17.339	Pass
		5825	1	17.240	Pass
			2	17.269	Pass
802.11n (HT20)	MIMO	5180	1	17.969	Pass
			2	17.678	Pass
		5200	1	18.089	Pass
			2	17.702	Pass
		5240	1	18.074	Pass
			2	17.700	Pass
		5745	1	18.083	Pass
			2	17.711	Pass
		5785	1	18.043	Pass
			2	17.720	Pass
		5825	1	18.057	Pass
			2	17.679	Pass
802.11n (HT40)	MIMO	5190	1	36.165	Pass
			2	36.354	Pass
		5230	1	36.103	Pass
			2	36.334	Pass
		5755	1	36.190	Pass
			2	36.578	Pass
		5795	1	36.167	Pass
			2	36.605	Pass
		5825	1	18.042	Pass
			2	17.688	Pass
802.11ac (VHT20)	MIMO	5180	1	18.031	Pass
			2	17.693	Pass
		5200	1	18.065	Pass
			2	17.689	Pass
		5240	1	18.105	Pass
			2	17.694	Pass
		5745	1	18.022	Pass
			2	17.673	Pass
		5785	1	18.051	Pass
			2	17.700	Pass
		5825	1	36.108	Pass
			2	36.108	Pass



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(VHT40)			2	36.392	Pass
		5230	1	36.055	Pass
			2	36.421	Pass
		5755	1	36.126	Pass
			2	36.463	Pass
		5795	1	36.170	Pass
			2	36.443	Pass
802.11ac (VHT80)	MIMO	5210	1	75.847	Pass
			2	75.487	Pass
		5775	1	75.616	Pass
			2	75.180	Pass



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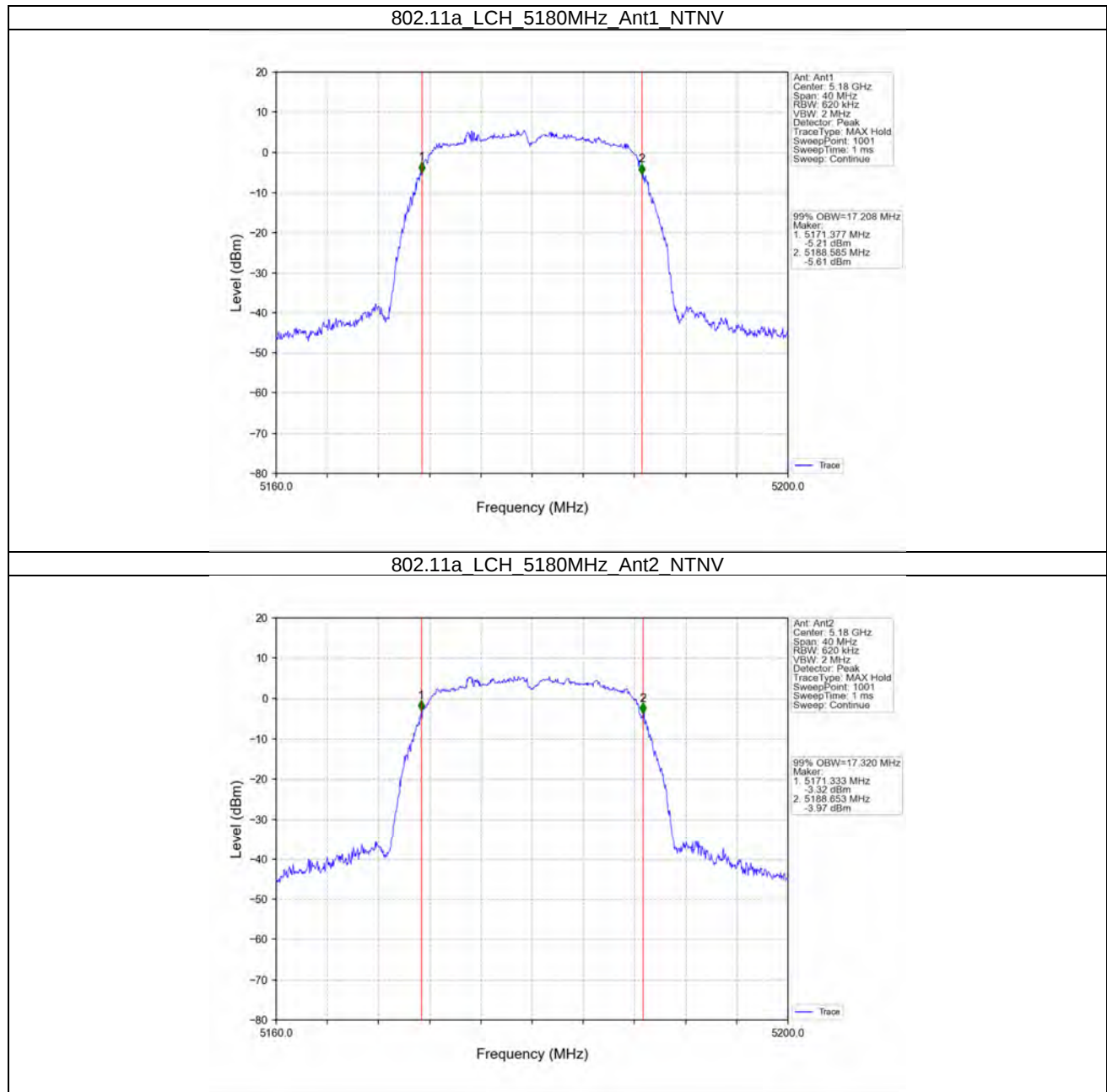
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2.1.2 Test Graph



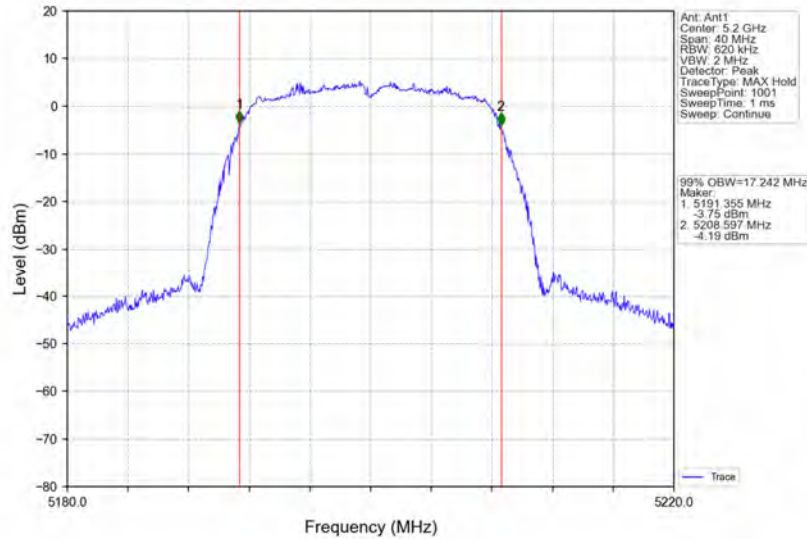
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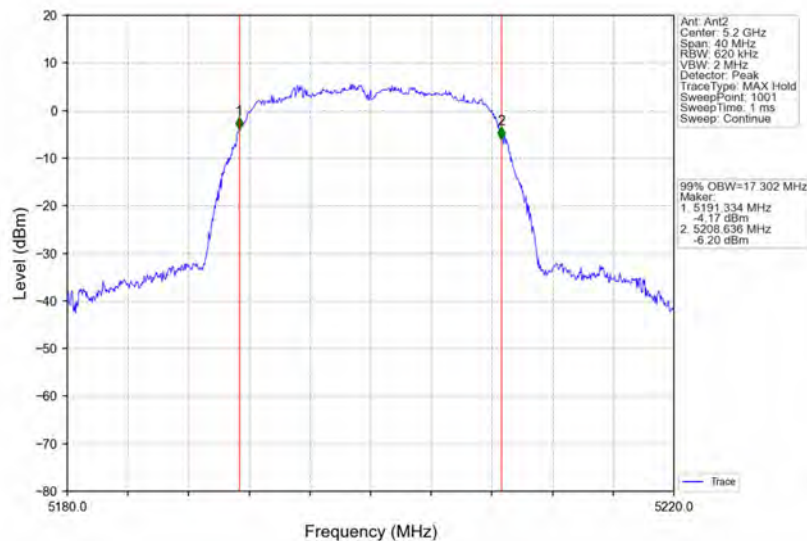
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802.11a_MCH_5200MHz_Ant2_NTNV



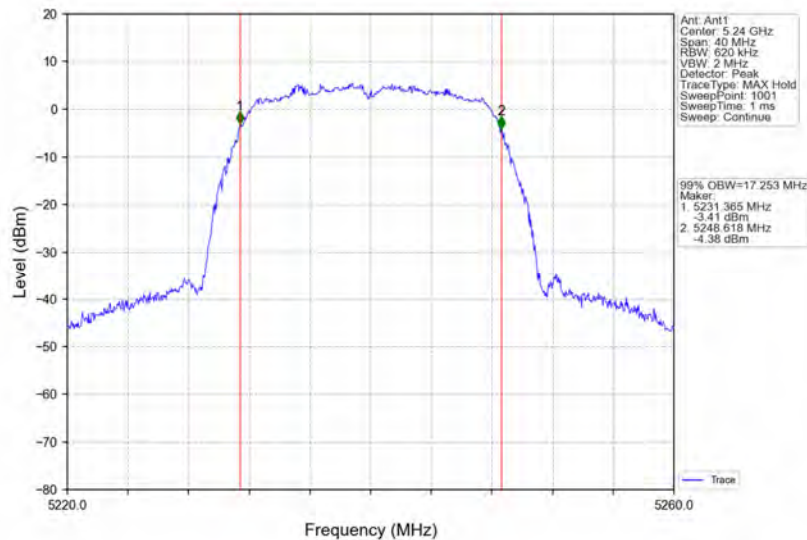
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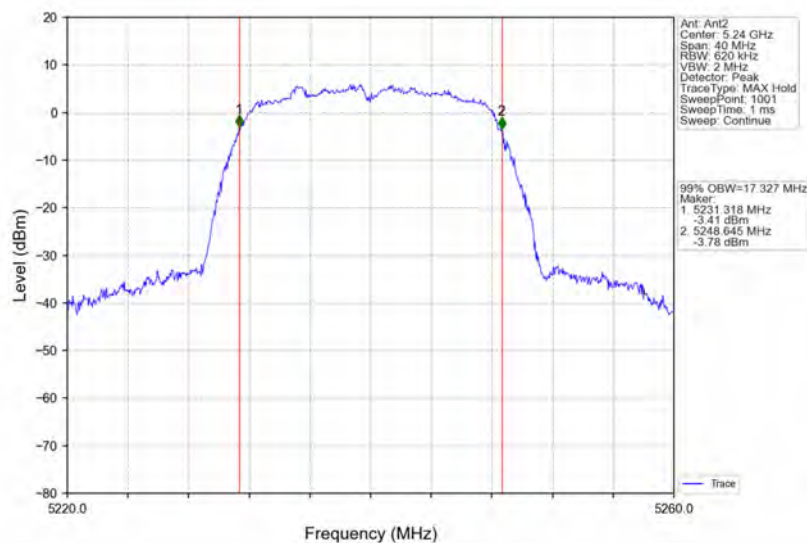
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802.11a_HCH_5240MHz_Ant2_NTNV



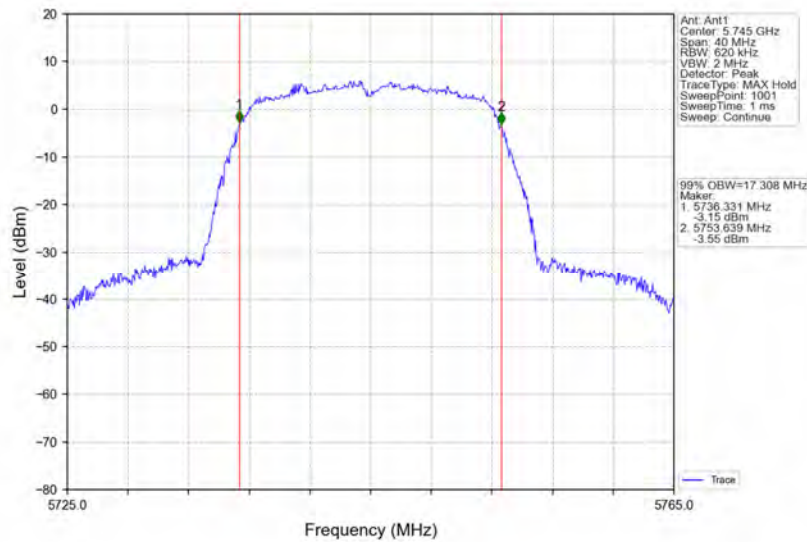
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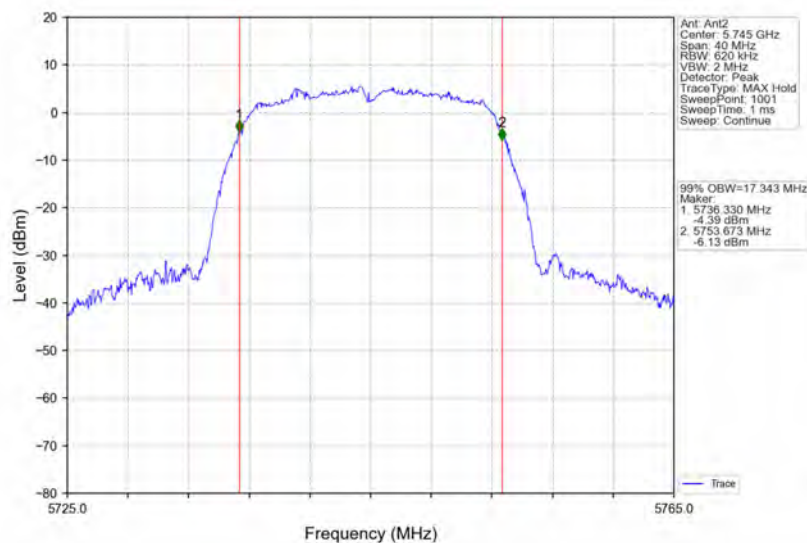
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802.11a_LCH_5745MHz_Ant2_NTNV



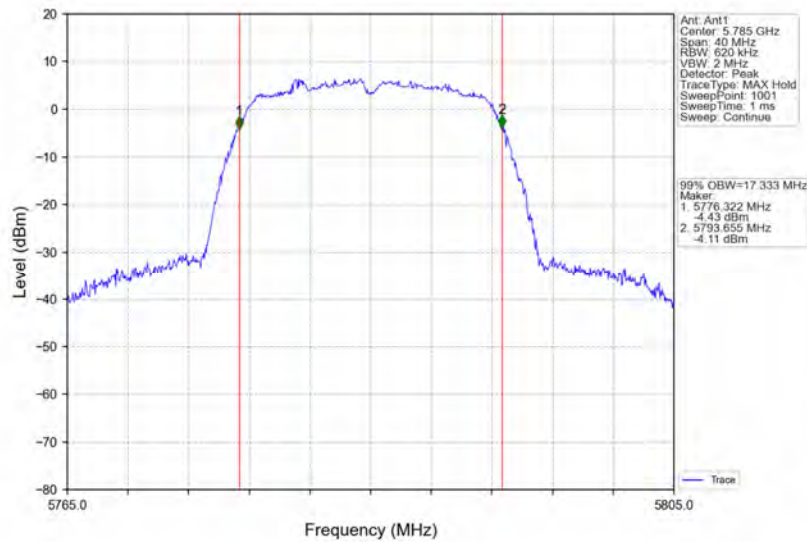
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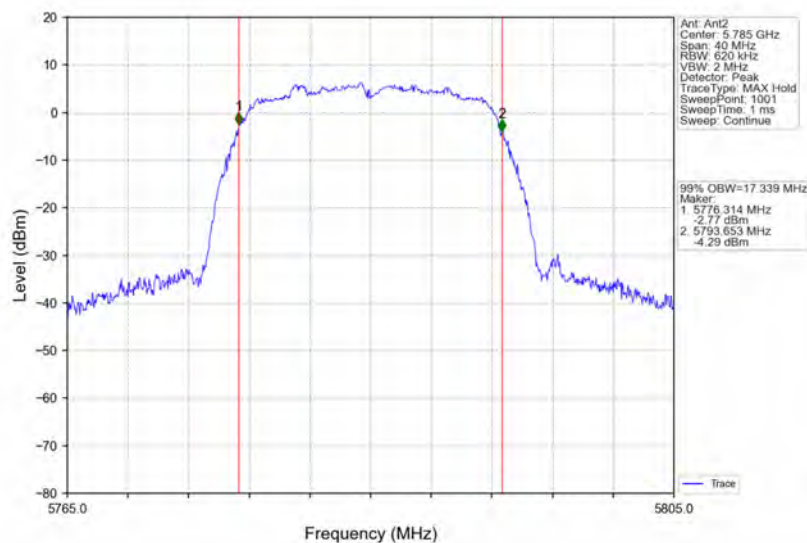
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802.11a_MCH_5785MHz_Ant2_NTNV



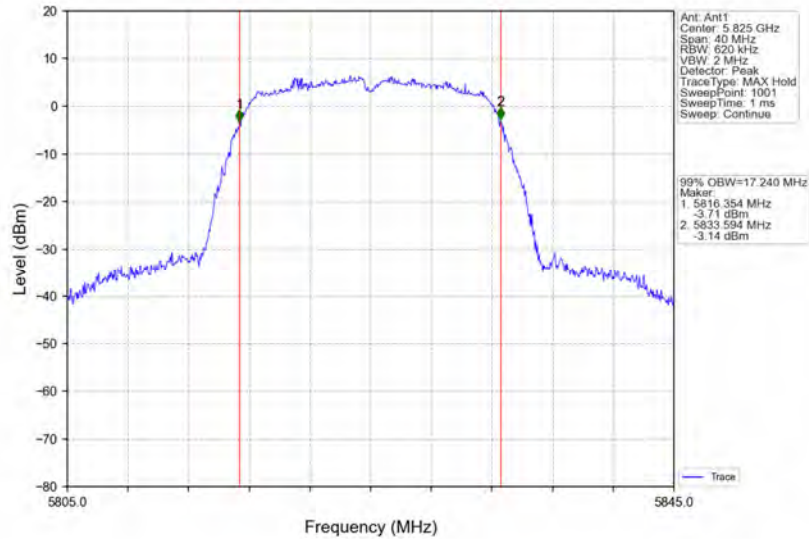
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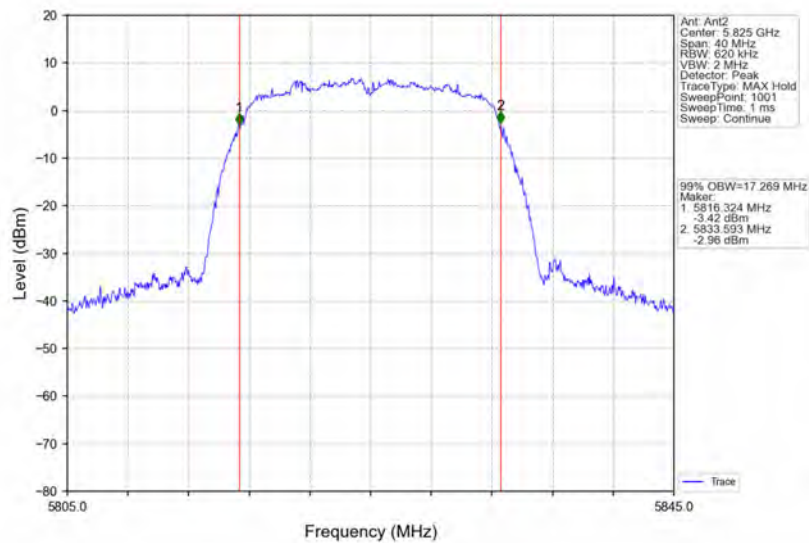
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802.11a_HCH_5825MHz_Ant2_NTNV



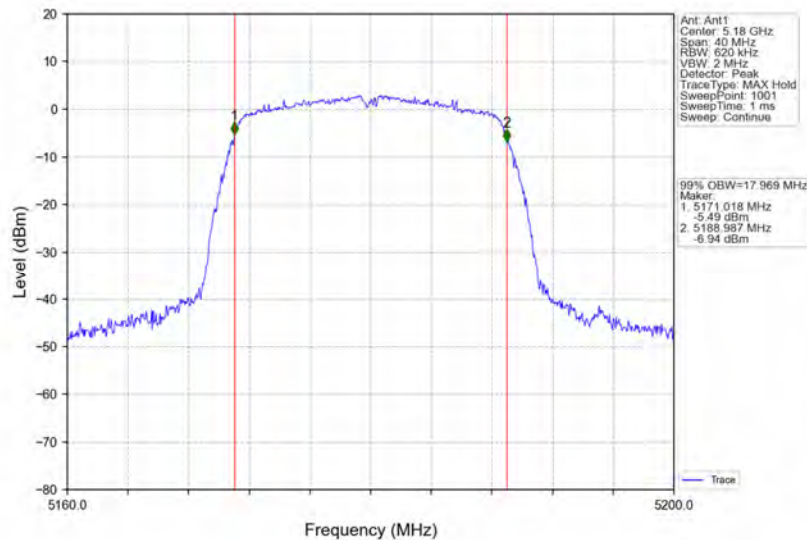
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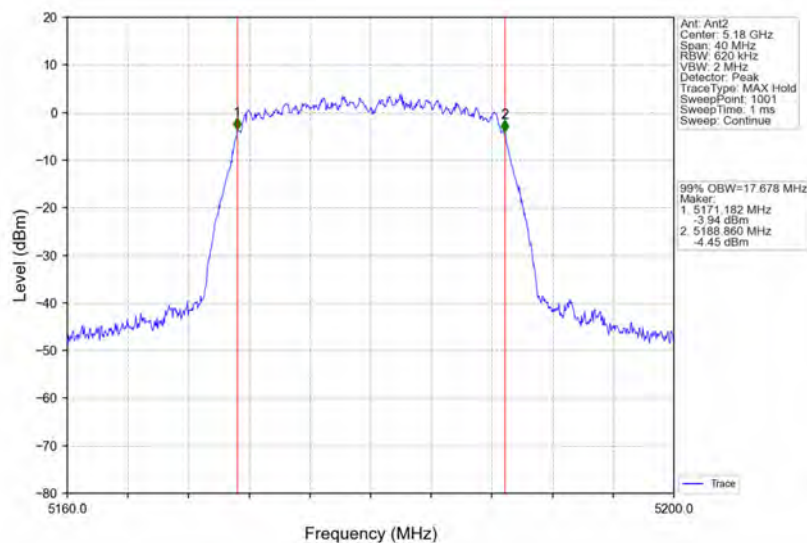
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802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



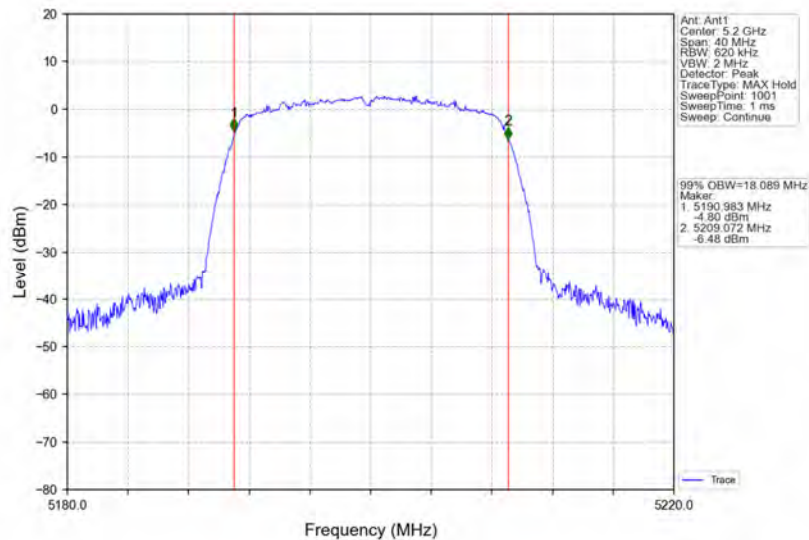
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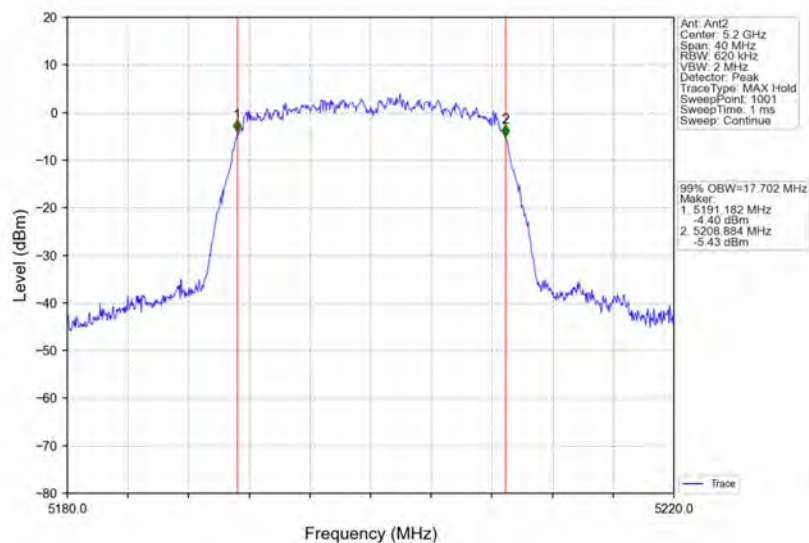
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



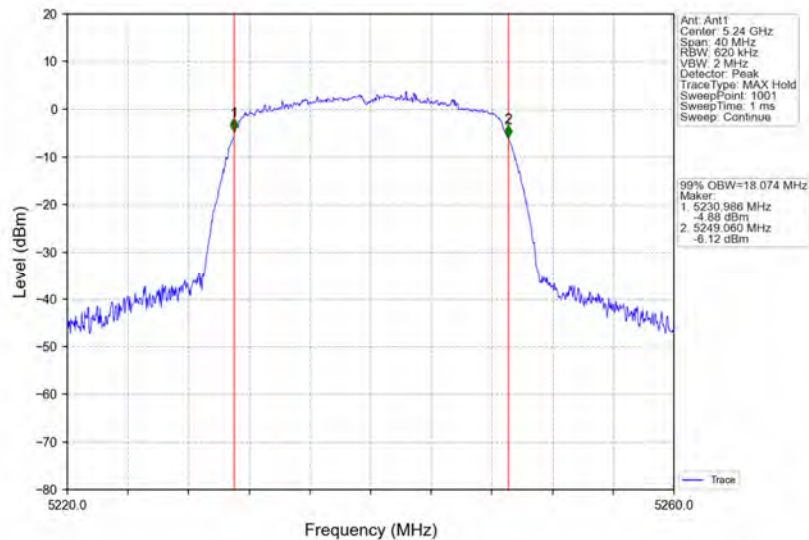
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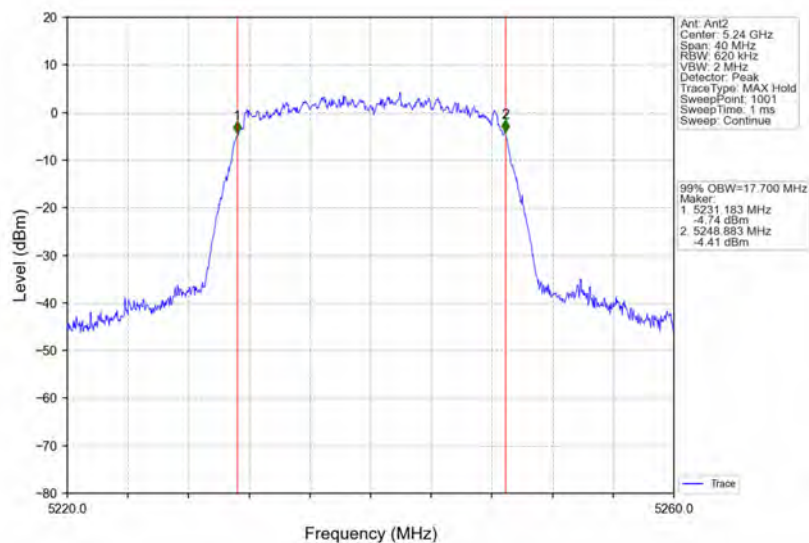
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



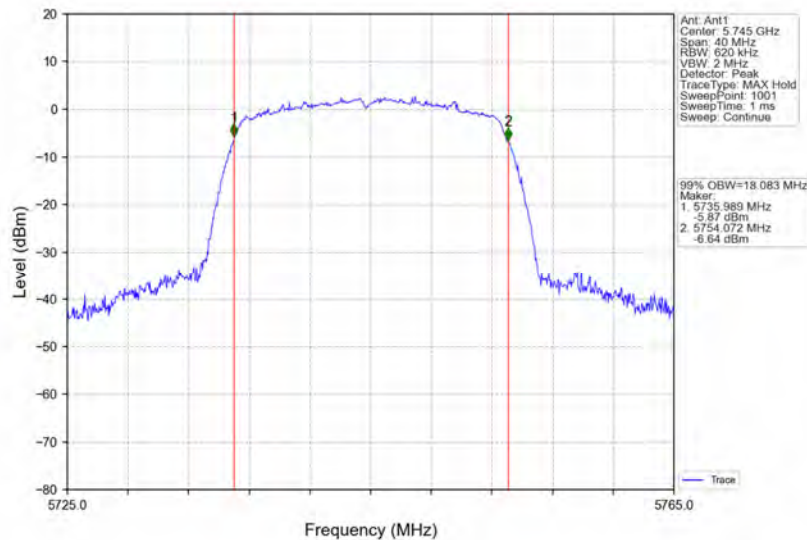
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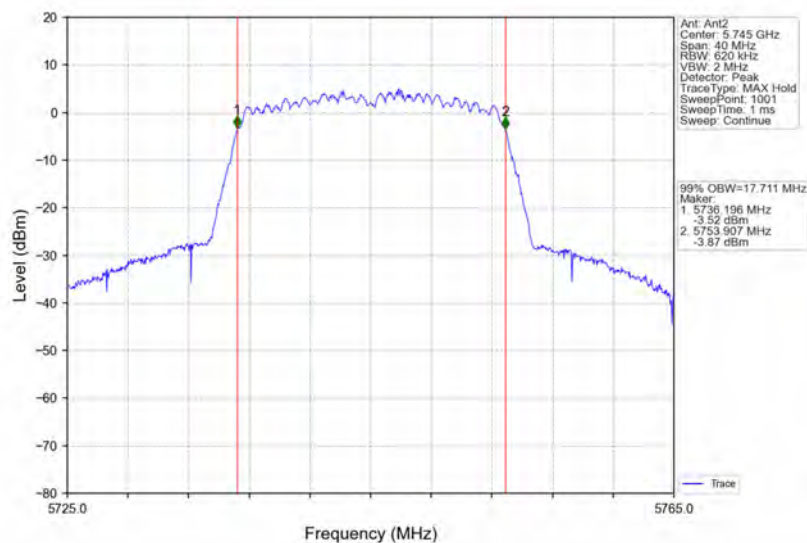
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



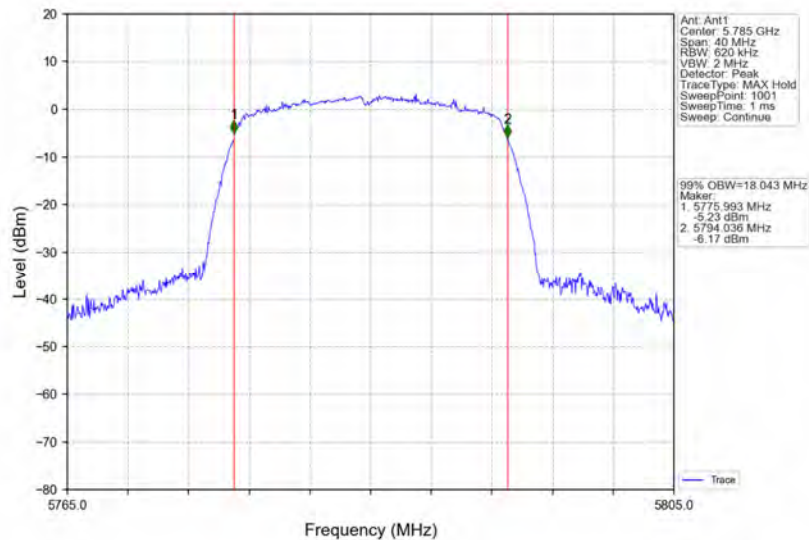
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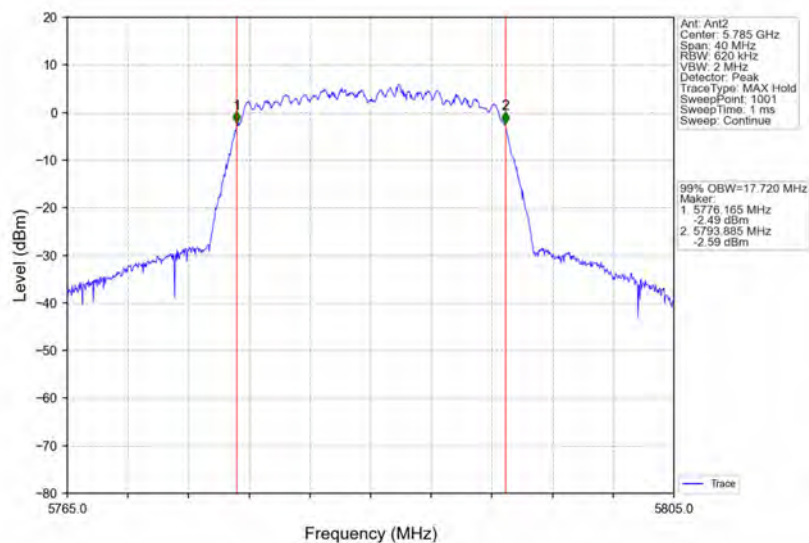
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



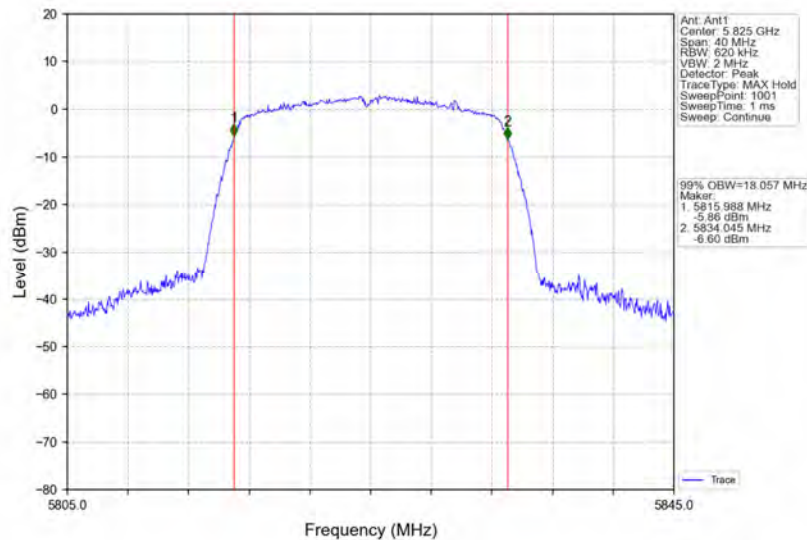
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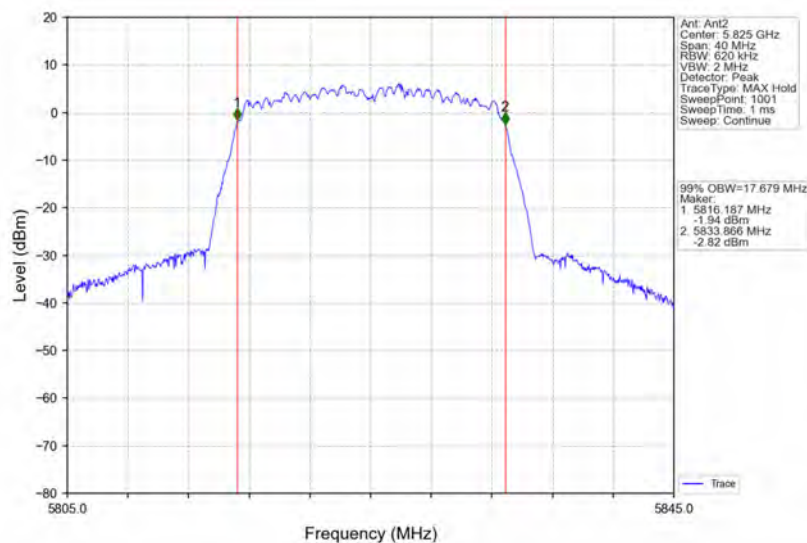
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



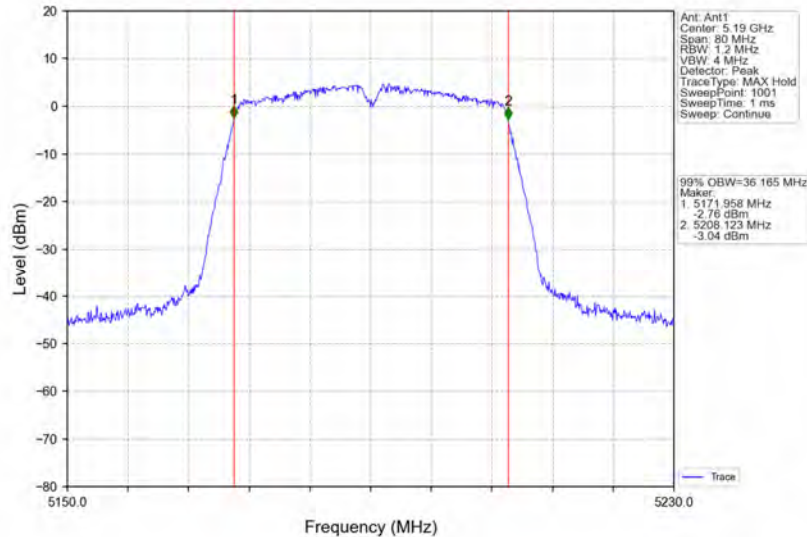
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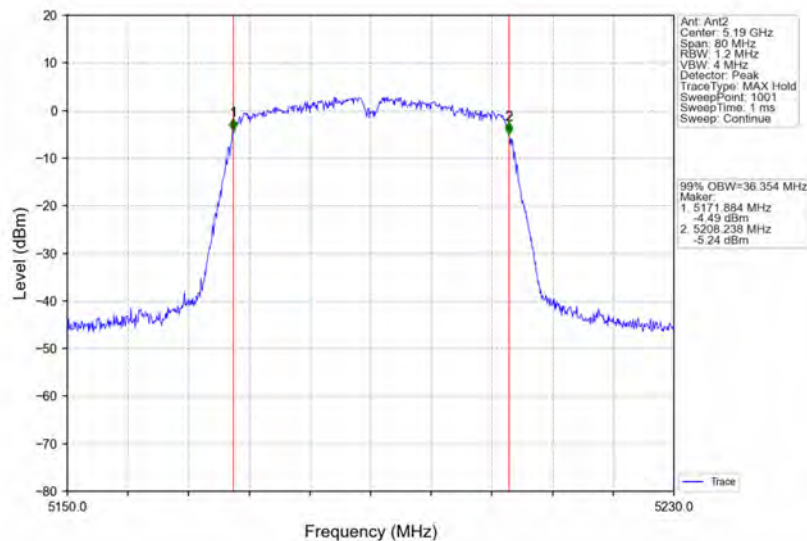
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802.11n(HT40) LCH_5190MHz_Ant1_NTNV



802.11n(HT40) LCH_5190MHz_Ant2_NTNV



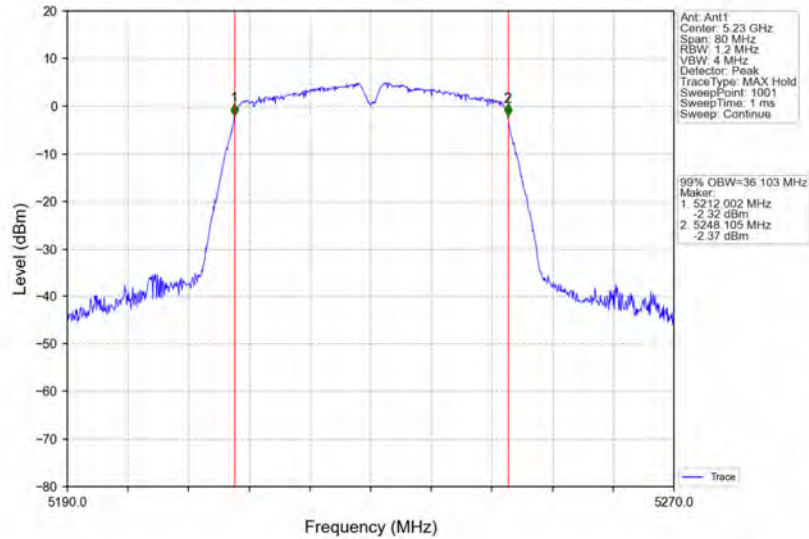
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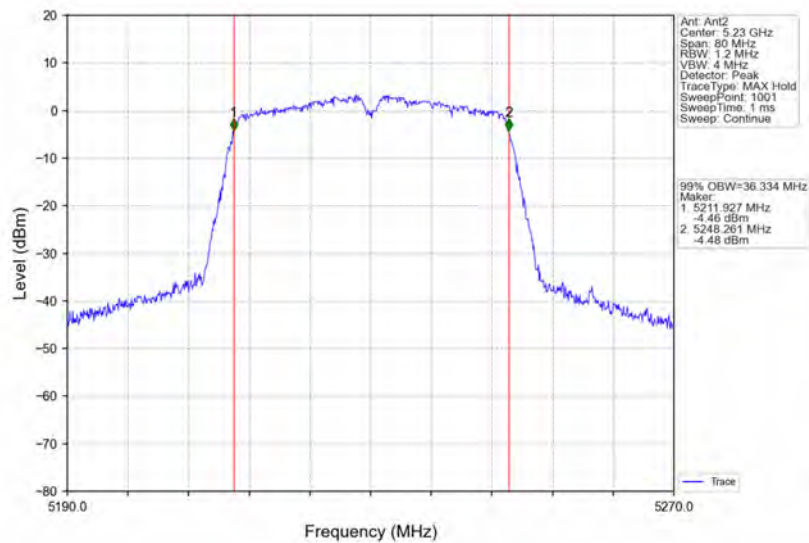
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



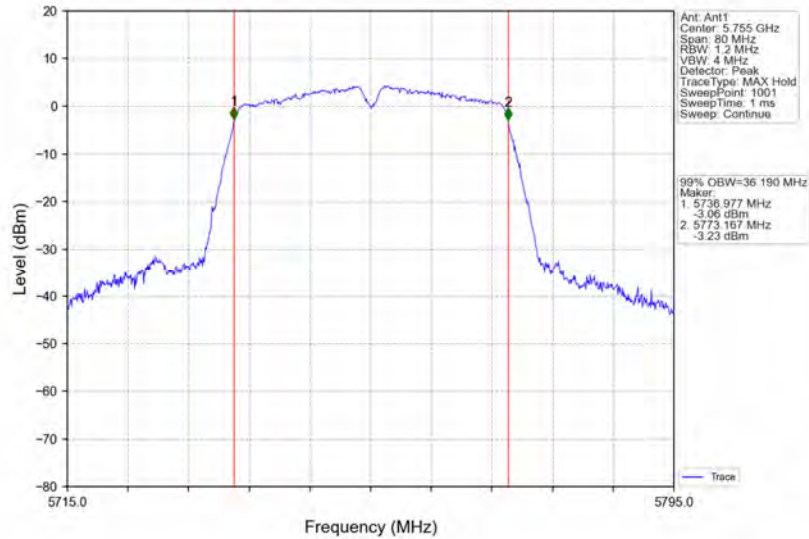
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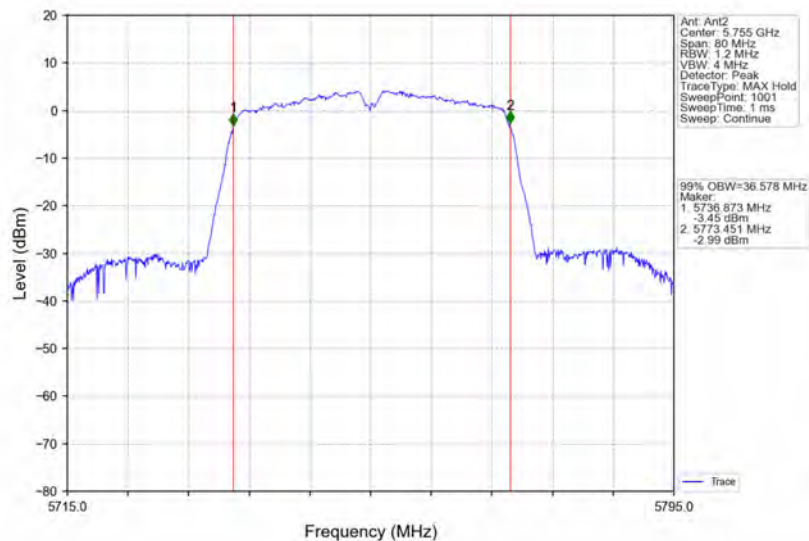
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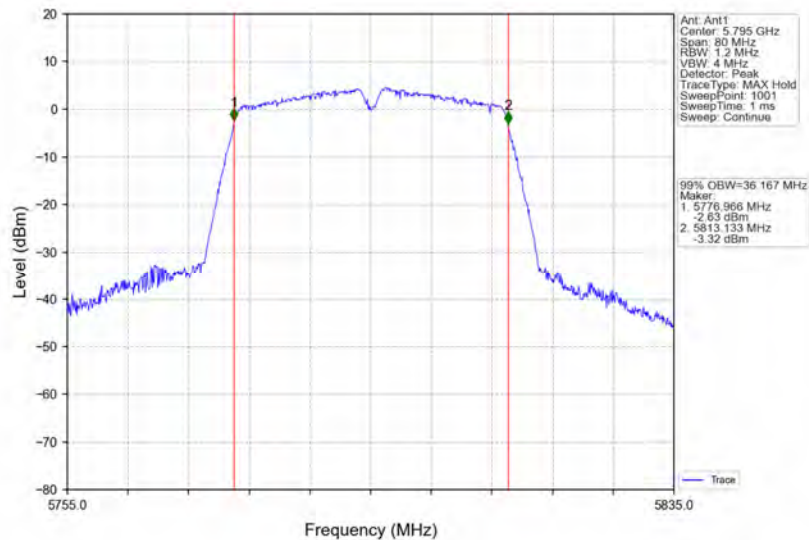
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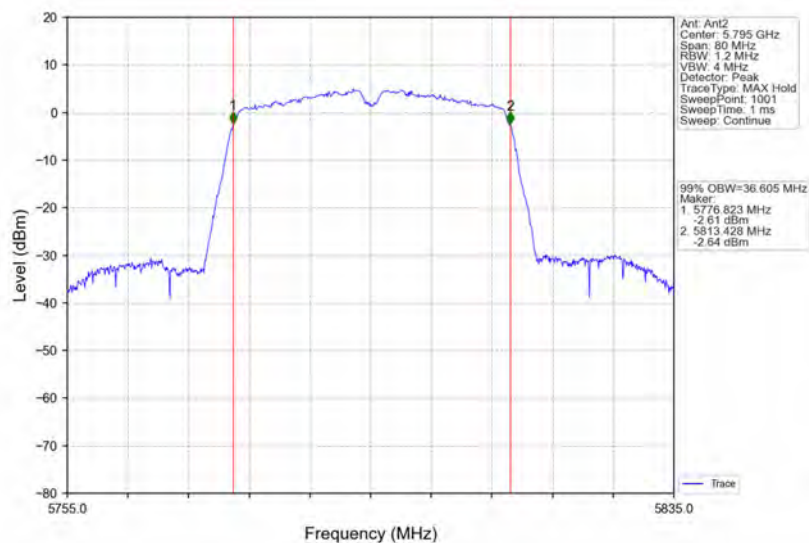
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



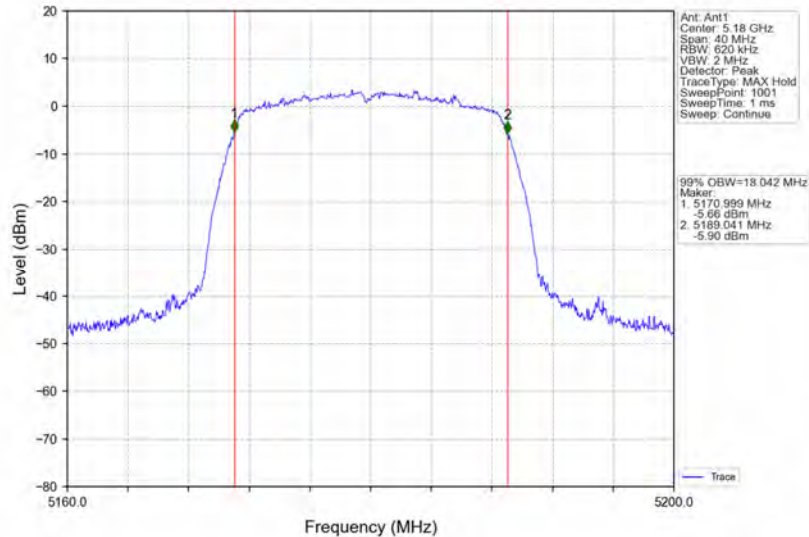
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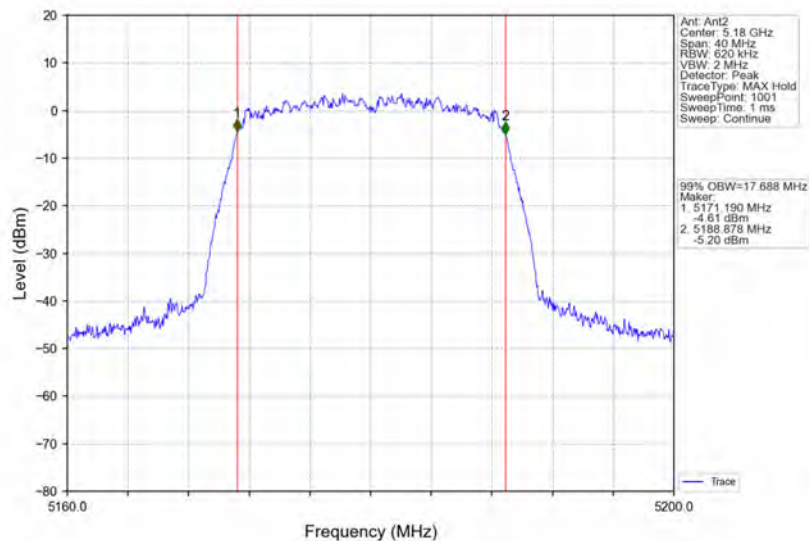
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



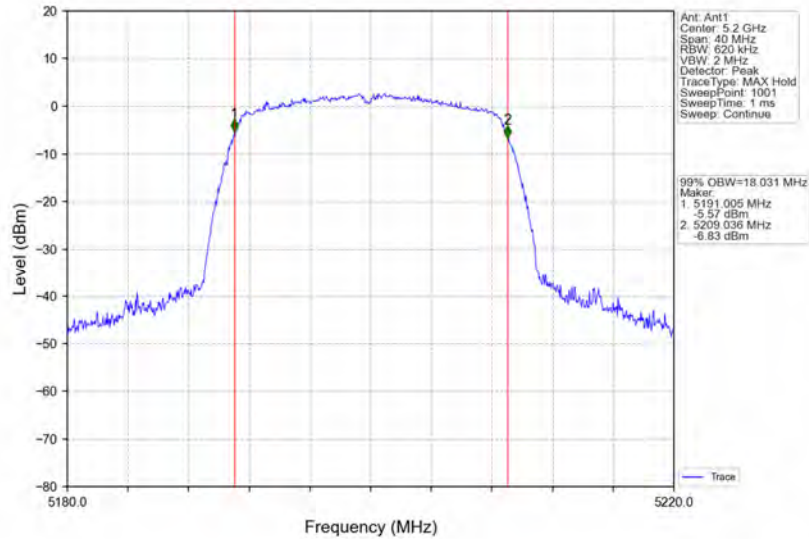
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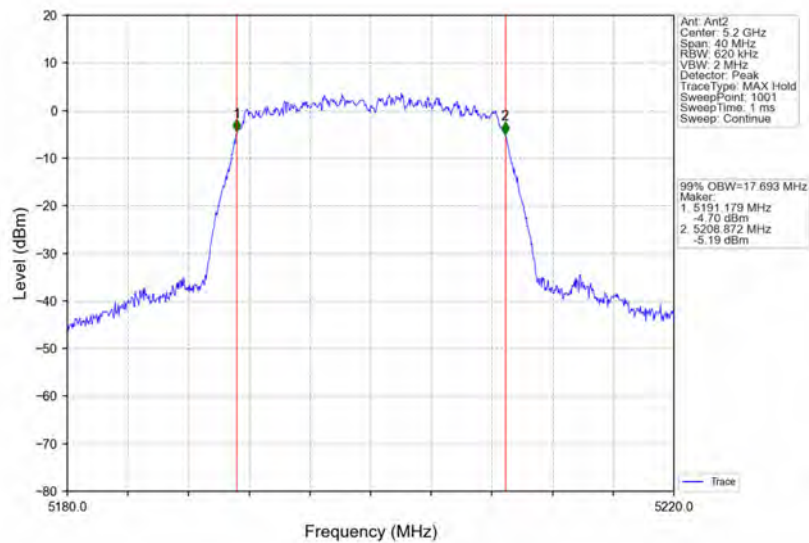
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



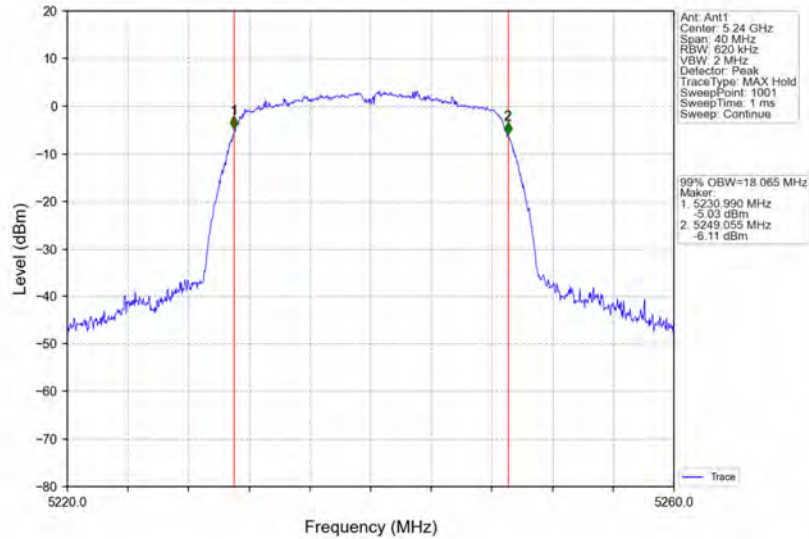
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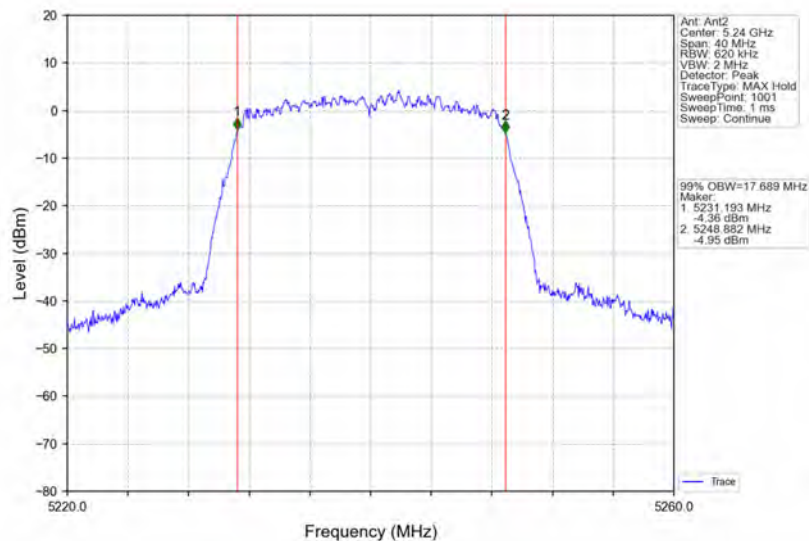
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



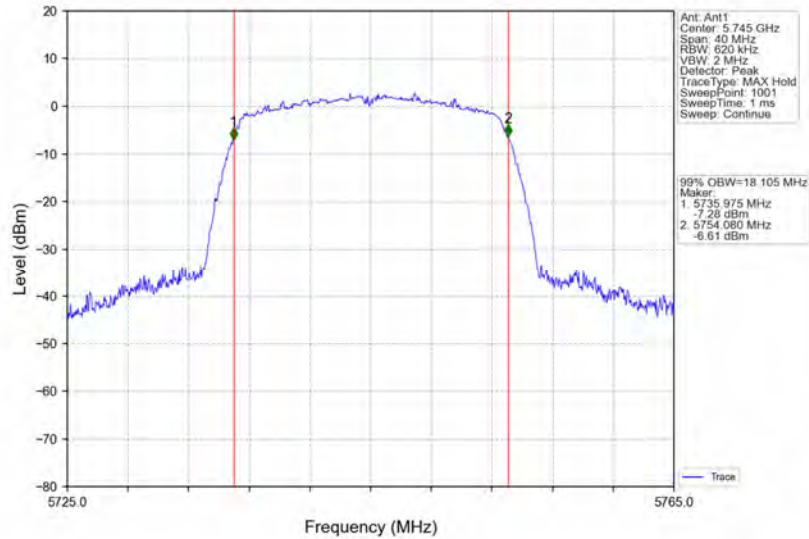
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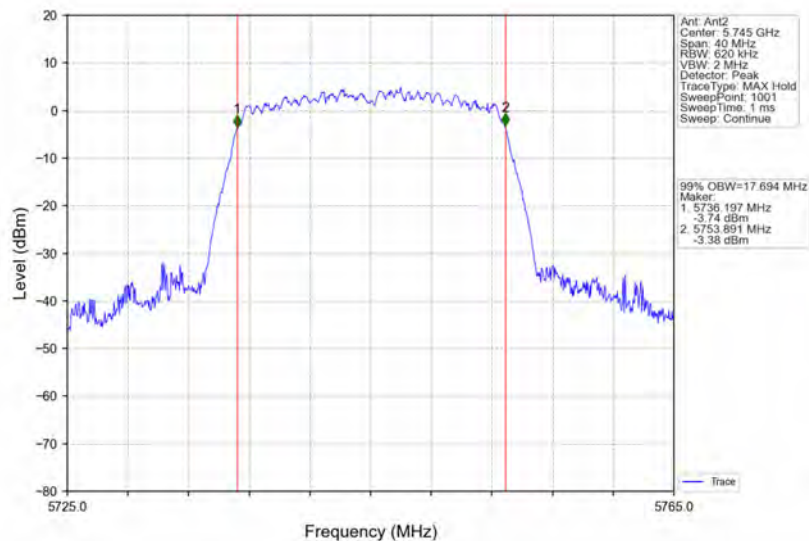
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



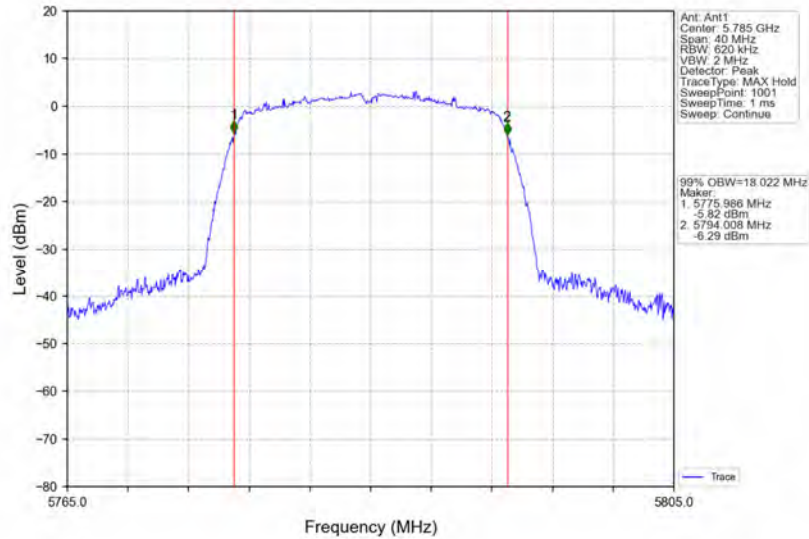
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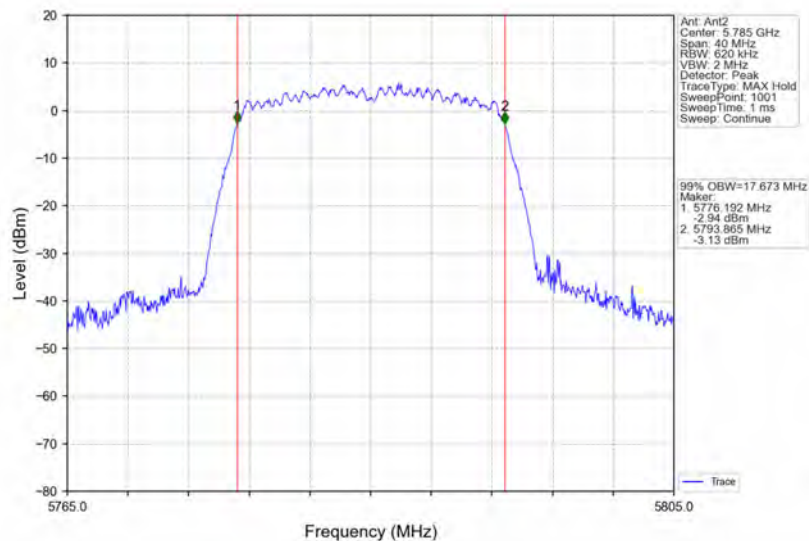
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



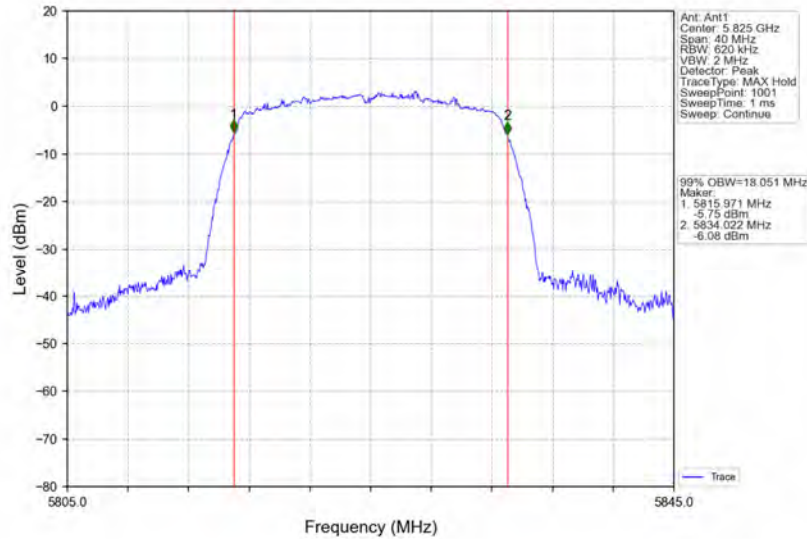
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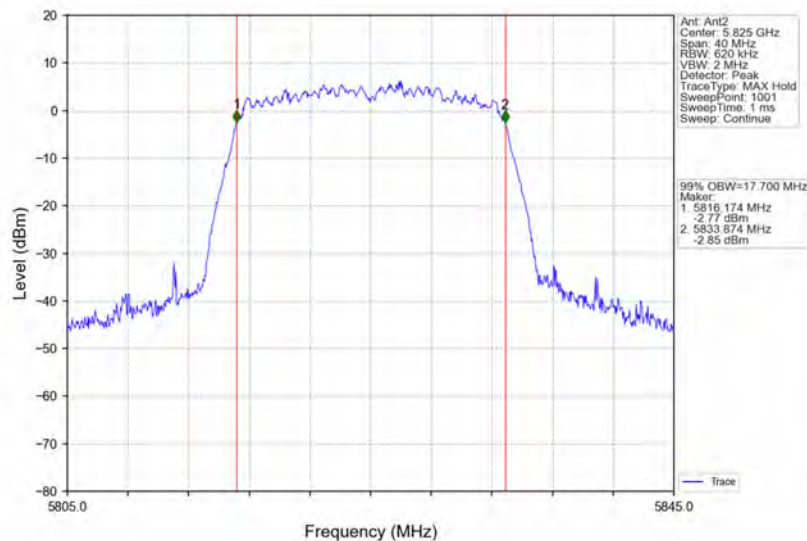
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



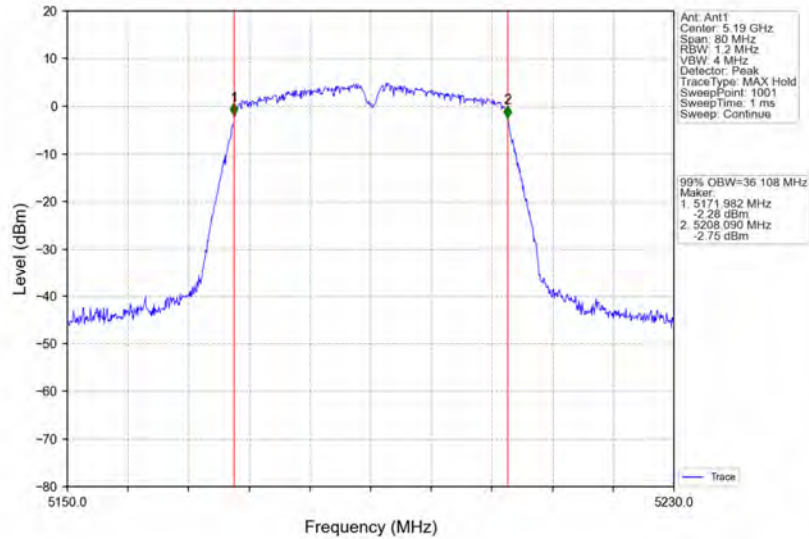
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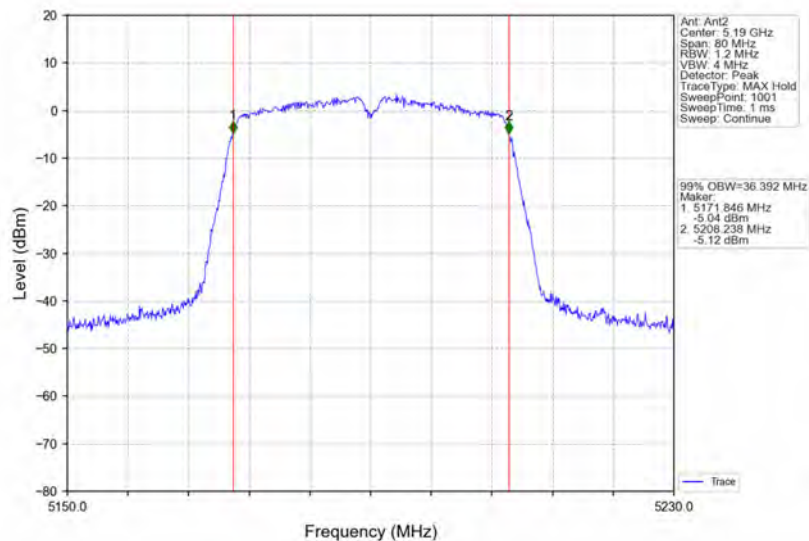
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



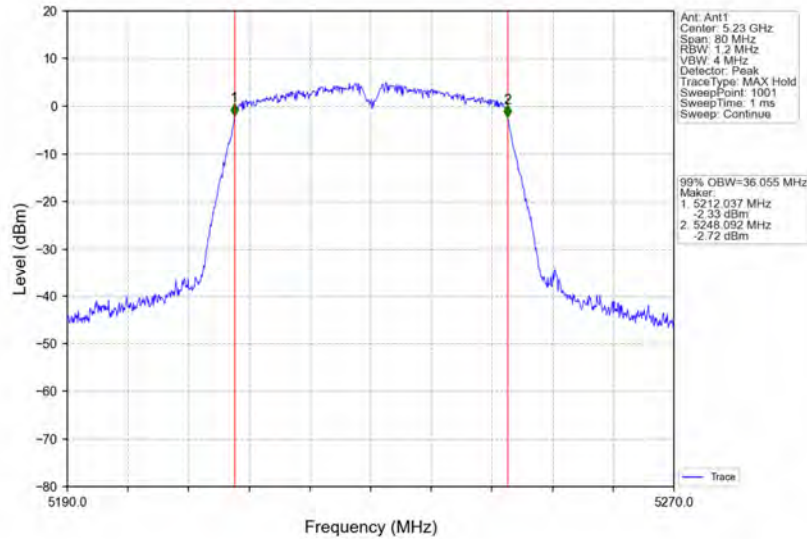
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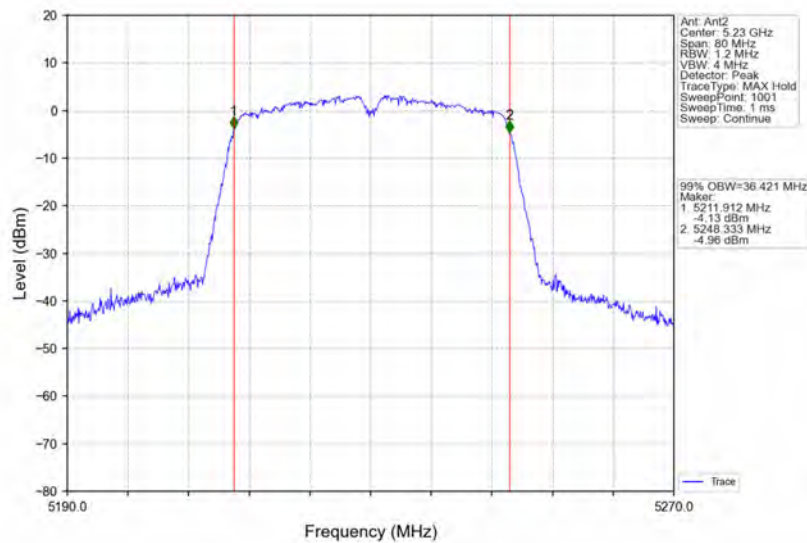
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



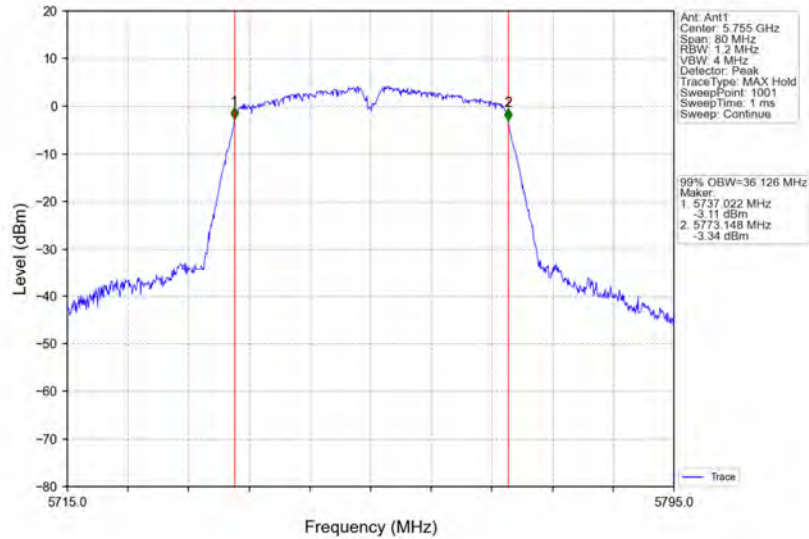
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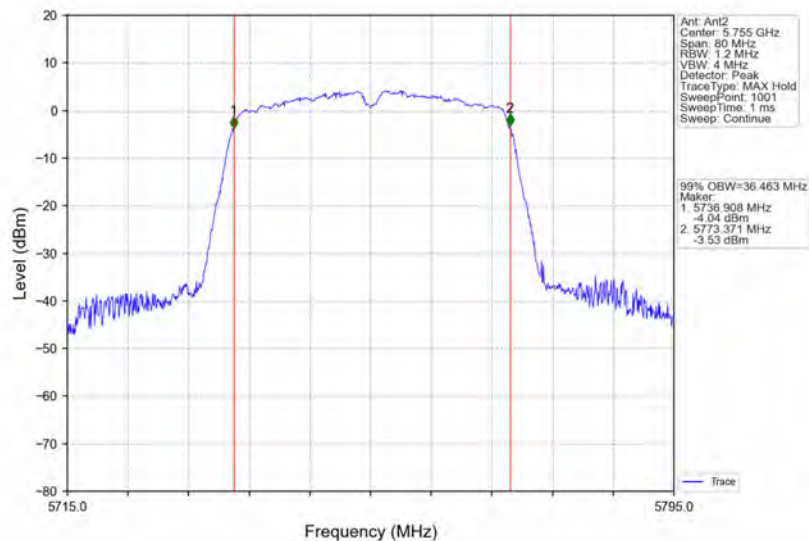
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



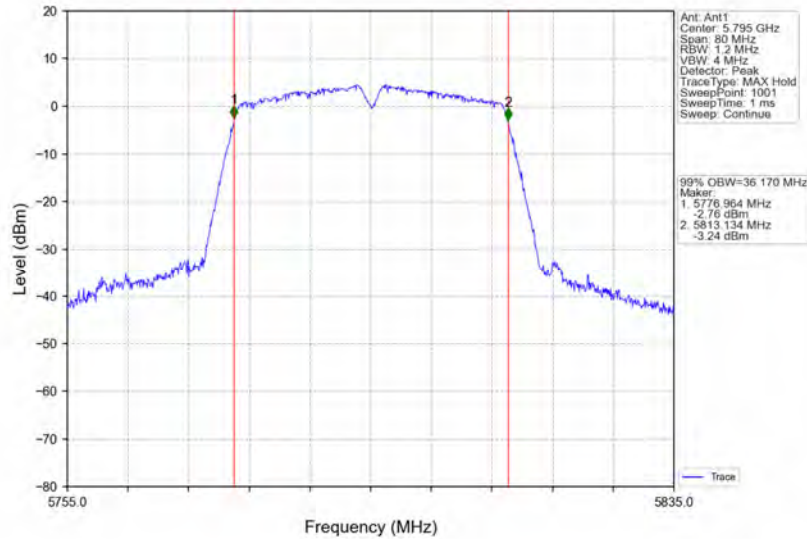
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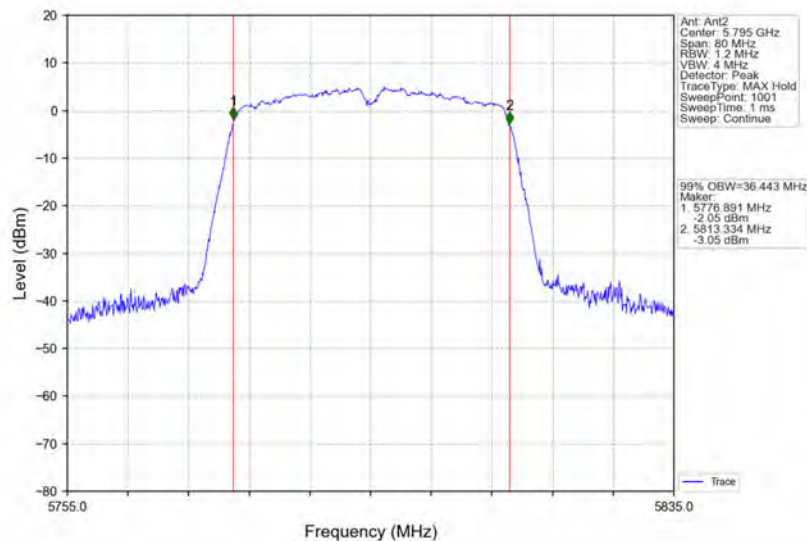
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802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



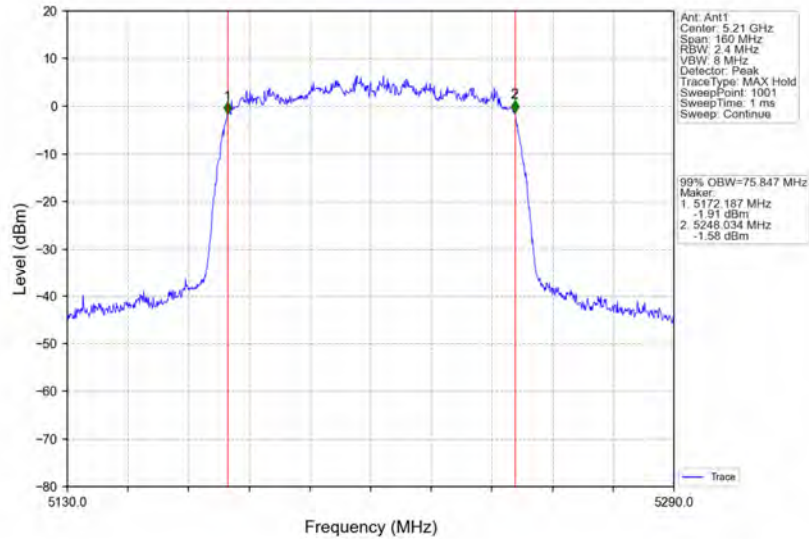
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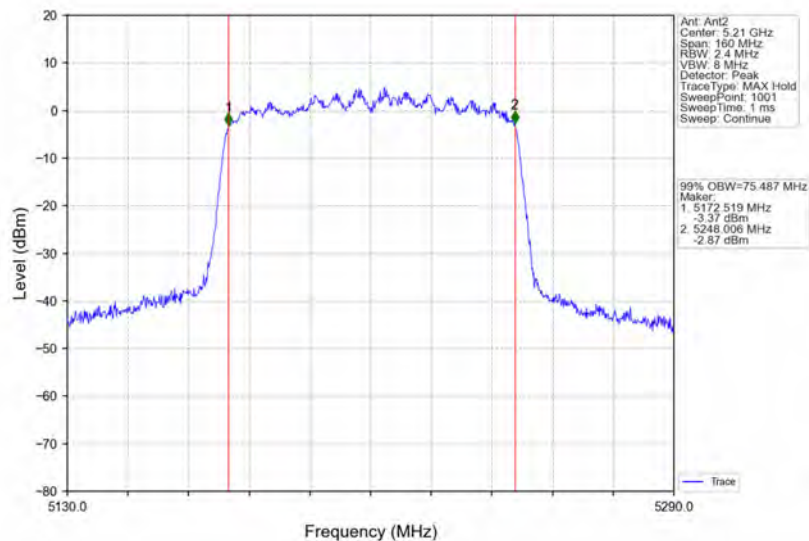
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



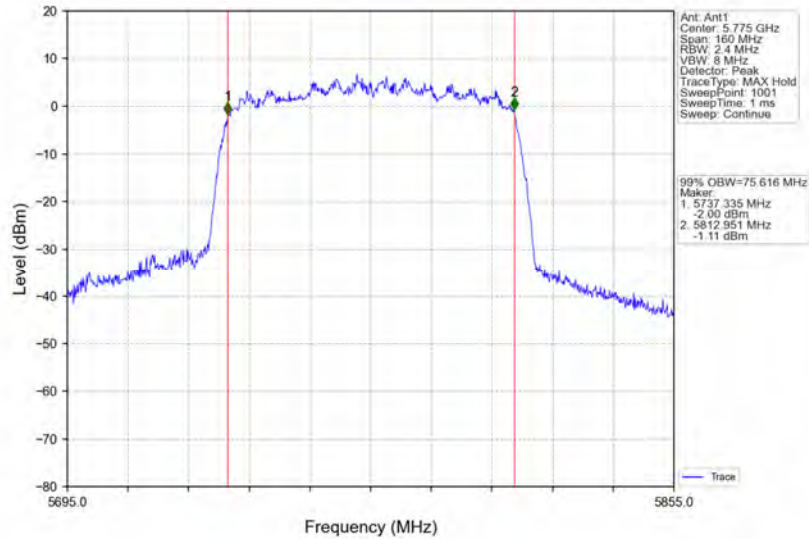
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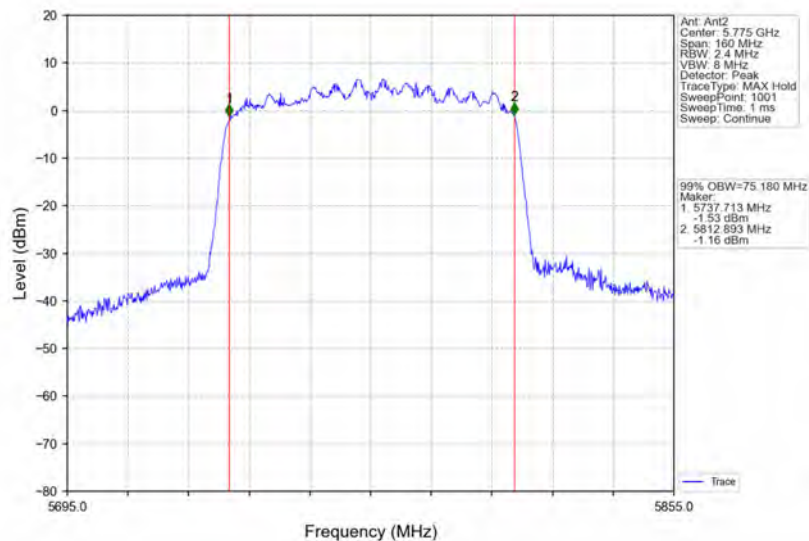
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



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2.2 6dB BW

2.2.1 Test Result

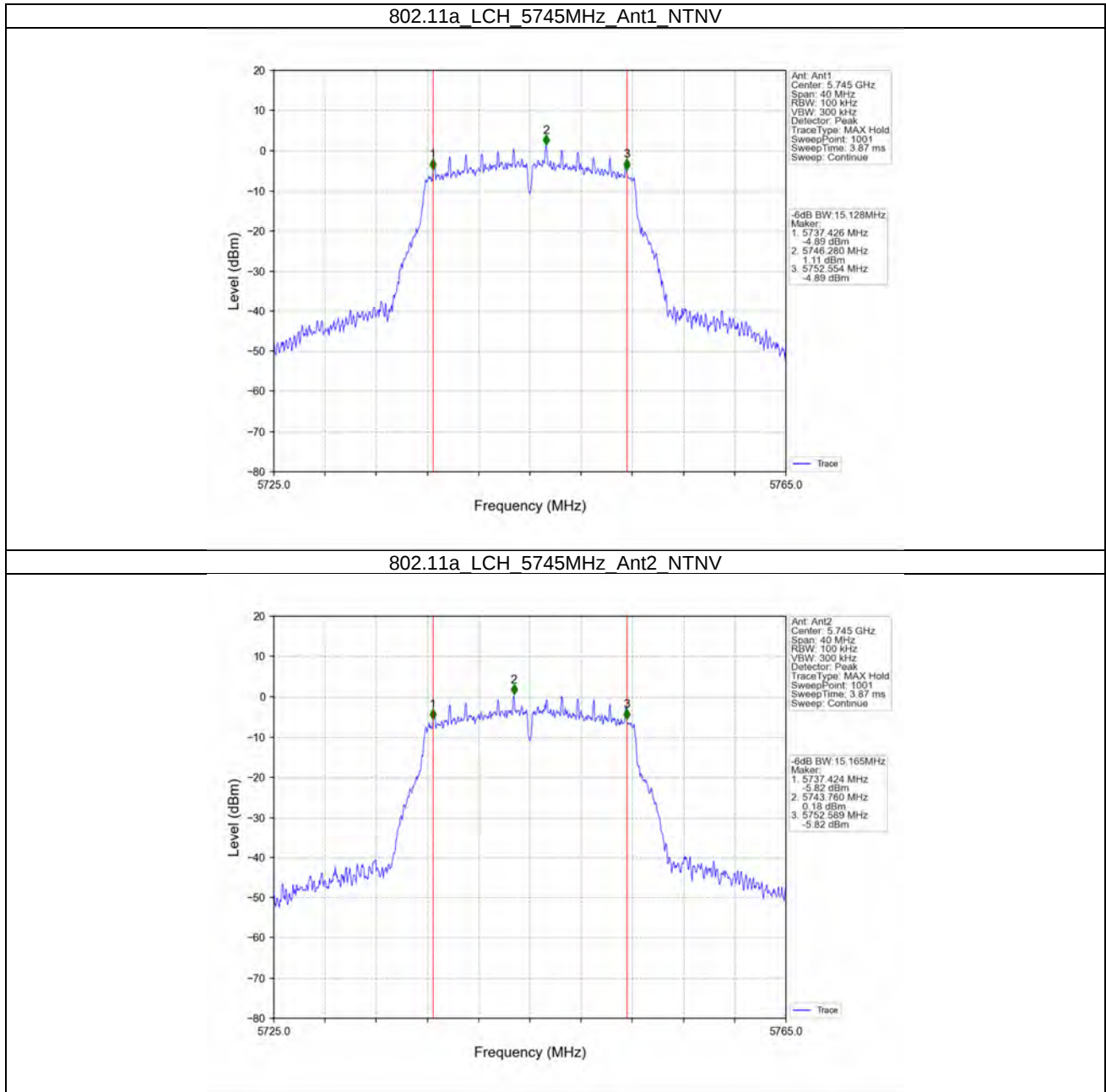
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.128	≥ 0.5	Pass
			2	15.165	≥ 0.5	Pass
		5785	1	15.155	≥ 0.5	Pass
			2	15.112	≥ 0.5	Pass
		5825	1	15.137	≥ 0.5	Pass
			2	15.126	≥ 0.5	Pass
802.11n (HT20)	MIMO	5745	1	15.155	≥ 0.5	Pass
			2	15.728	≥ 0.5	Pass
		5785	1	15.084	≥ 0.5	Pass
			2	16.336	≥ 0.5	Pass
		5825	1	15.161	≥ 0.5	Pass
			2	16.328	≥ 0.5	Pass
802.11n (HT40)	MIMO	5755	1	35.147	≥ 0.5	Pass
			2	35.143	≥ 0.5	Pass
		5795	1	35.163	≥ 0.5	Pass
			2	35.150	≥ 0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	15.163	≥ 0.5	Pass
			2	16.360	≥ 0.5	Pass
		5785	1	15.141	≥ 0.5	Pass
			2	15.722	≥ 0.5	Pass
		5825	1	15.160	≥ 0.5	Pass
			2	16.324	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	35.161	≥ 0.5	Pass
			2	35.140	≥ 0.5	Pass
		5795	1	35.162	≥ 0.5	Pass
			2	35.149	≥ 0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	75.147	≥ 0.5	Pass
			2	75.147	≥ 0.5	Pass



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2.2.2 Test Graph



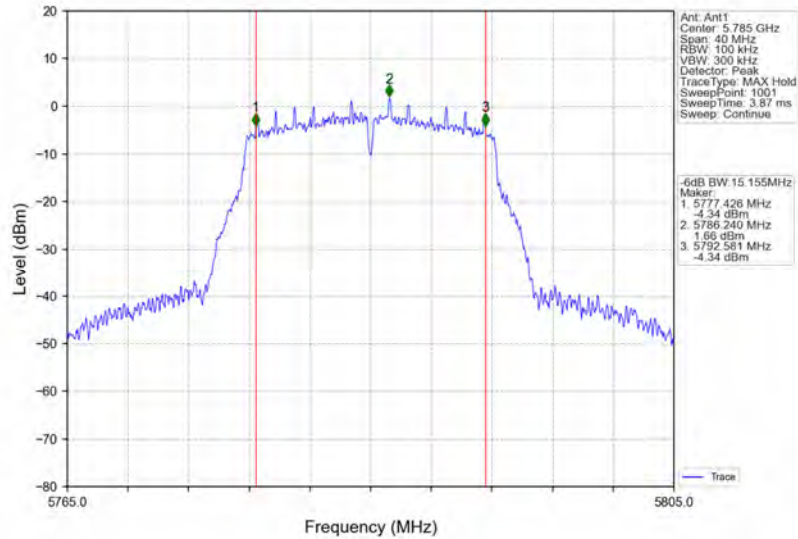
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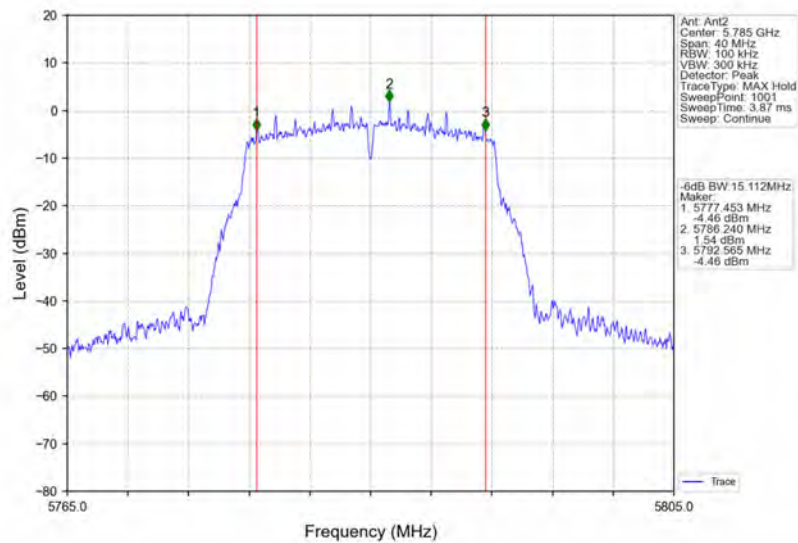
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant2_NTNV



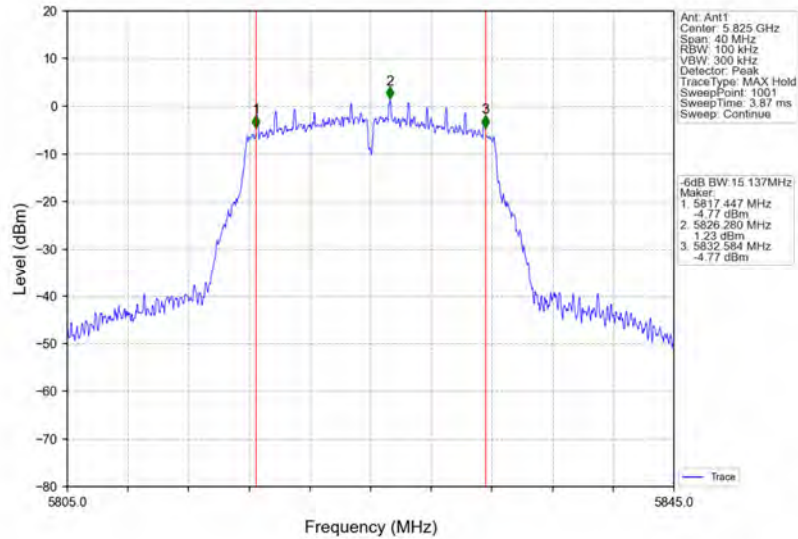
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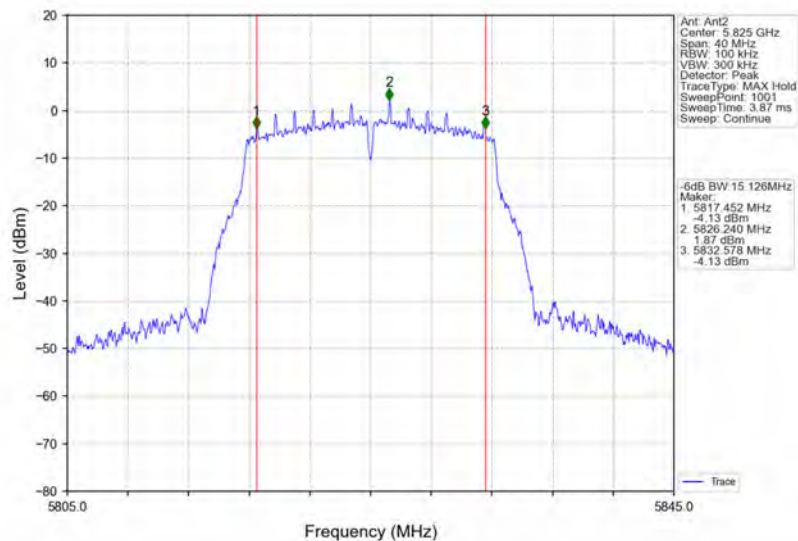
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant2_NTNV



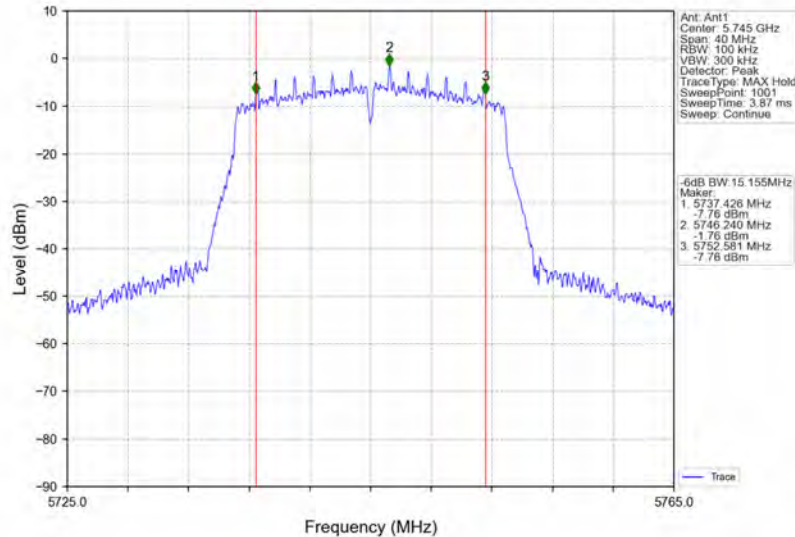
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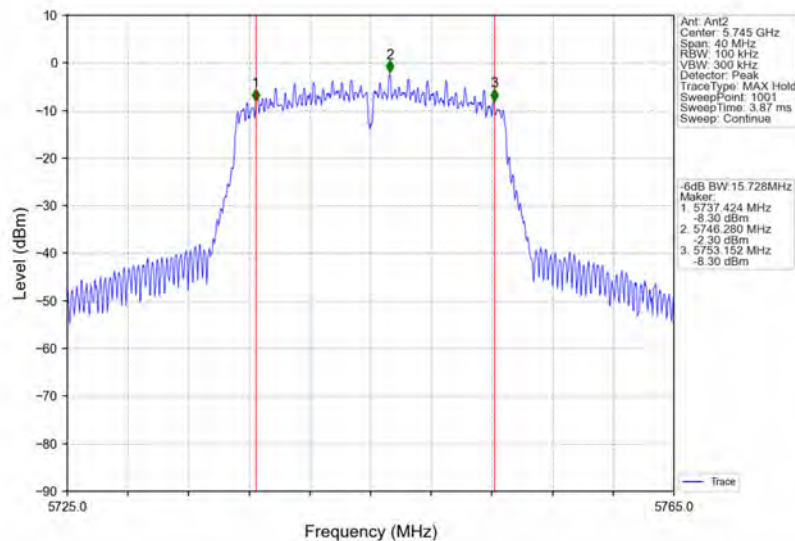
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802.11n(HT20) LCH_5745MHz_Ant1_NTNV



802.11n(HT20) LCH_5745MHz_Ant2_NTNV



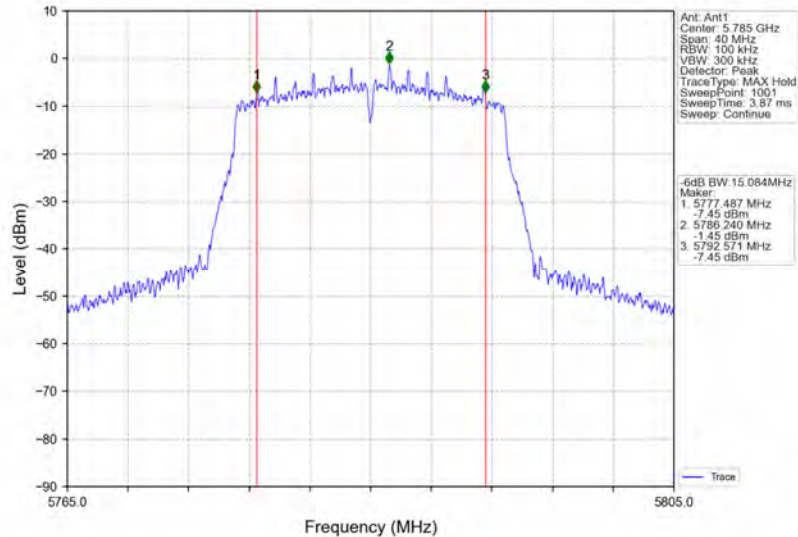
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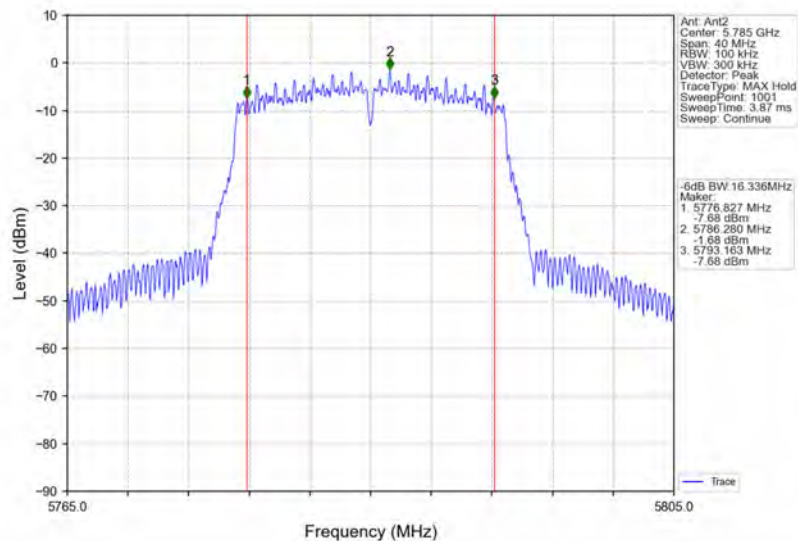
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



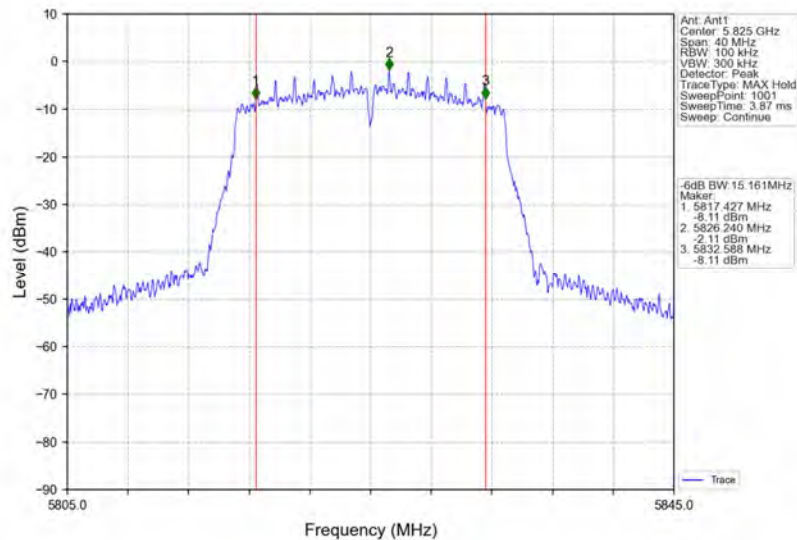
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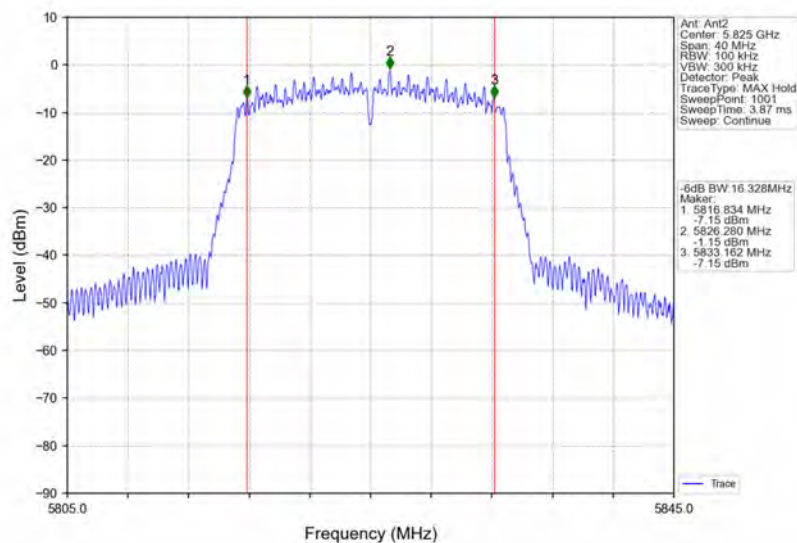
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802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



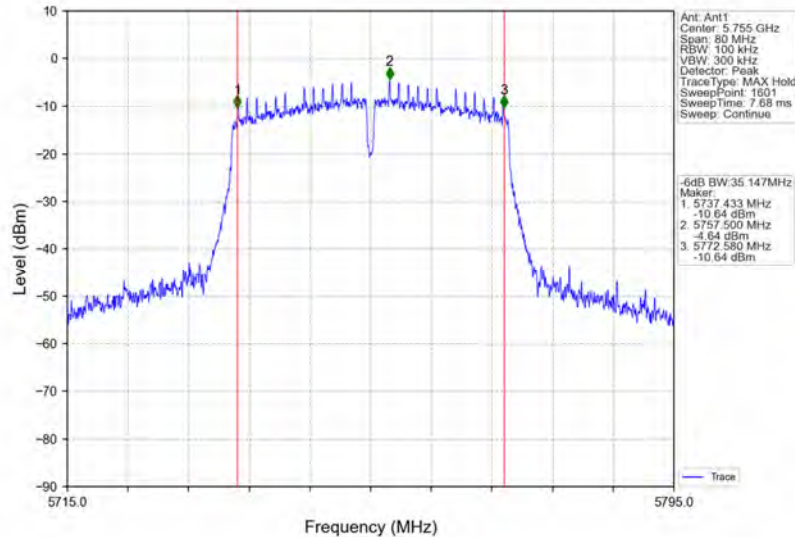
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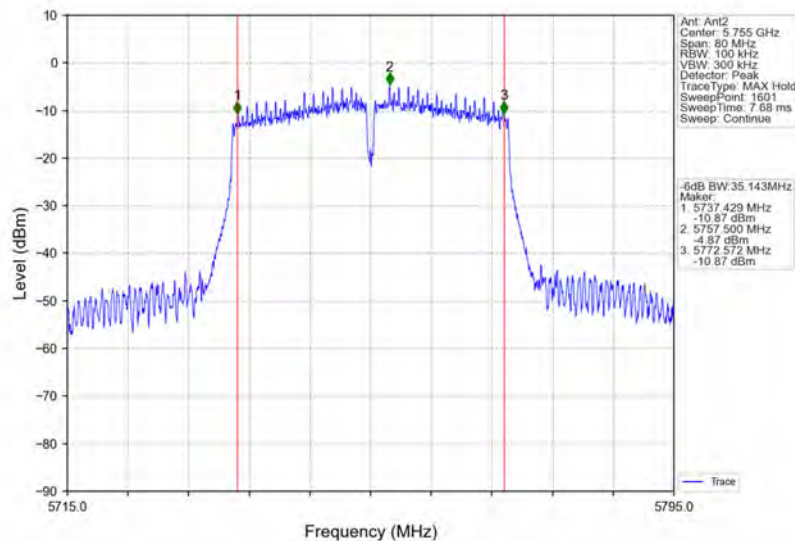
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802.11n(HT40) LCH_5755MHz_Ant1_NTNV



802.11n(HT40) LCH_5755MHz_Ant2_NTNV



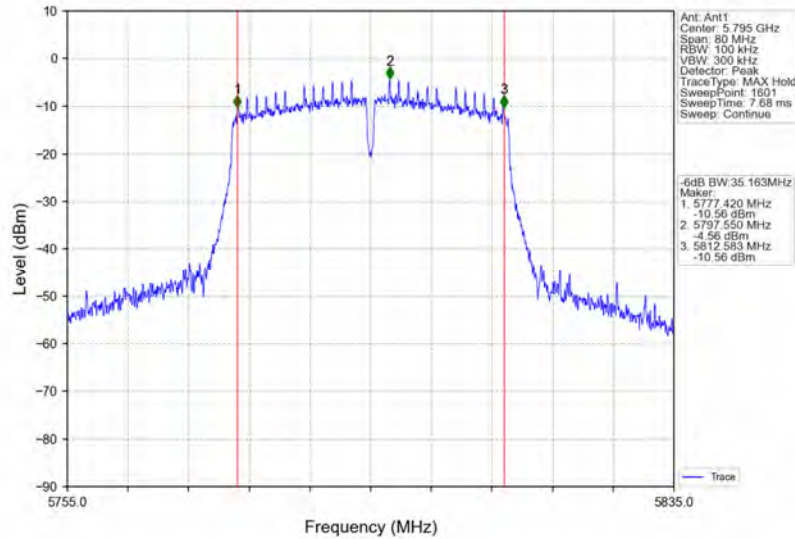
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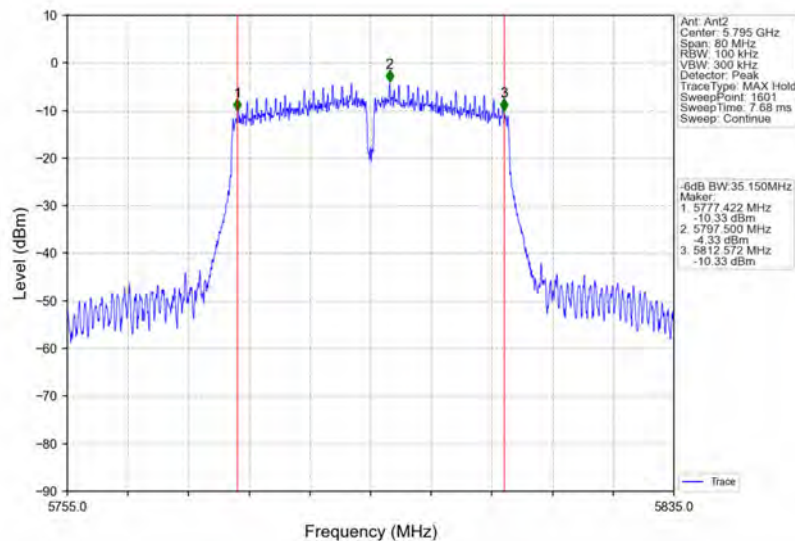
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802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



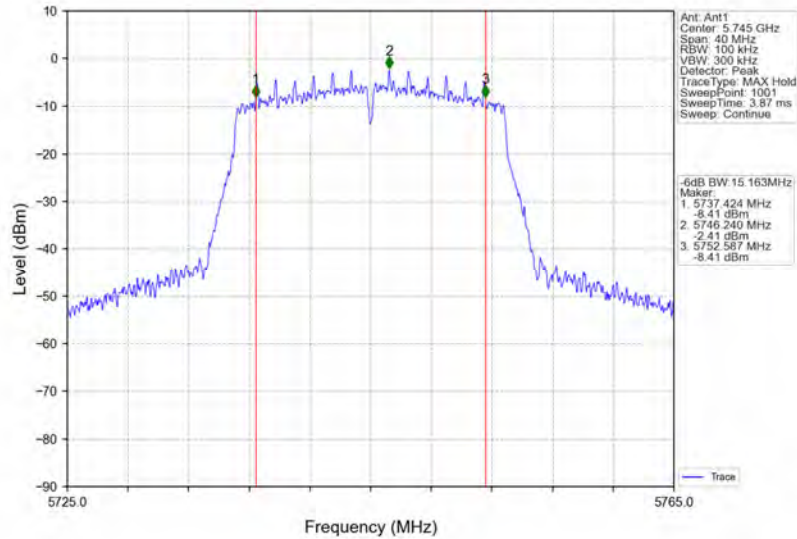
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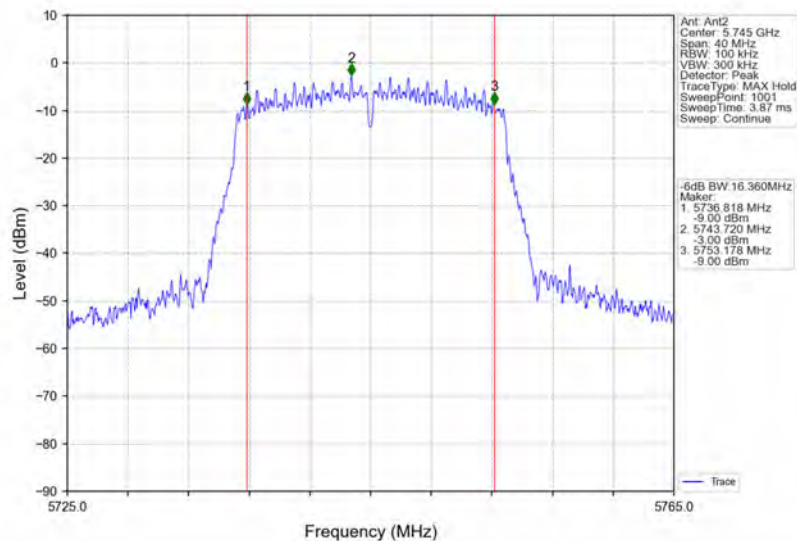
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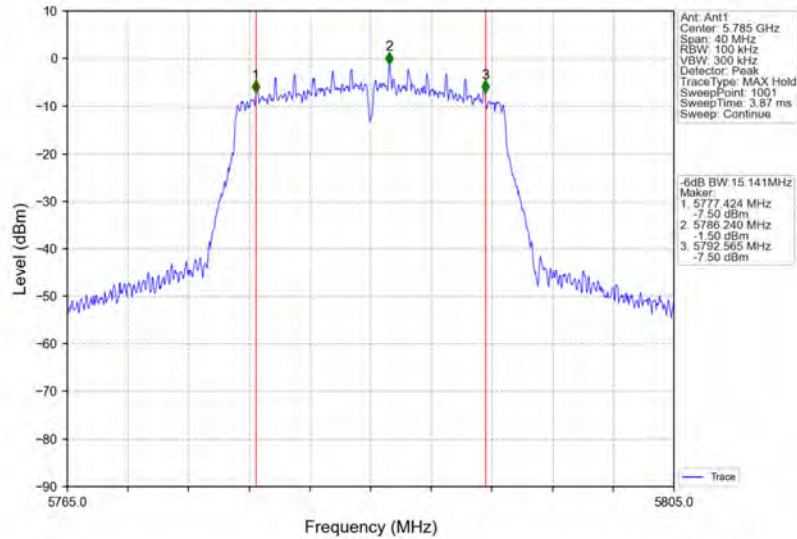
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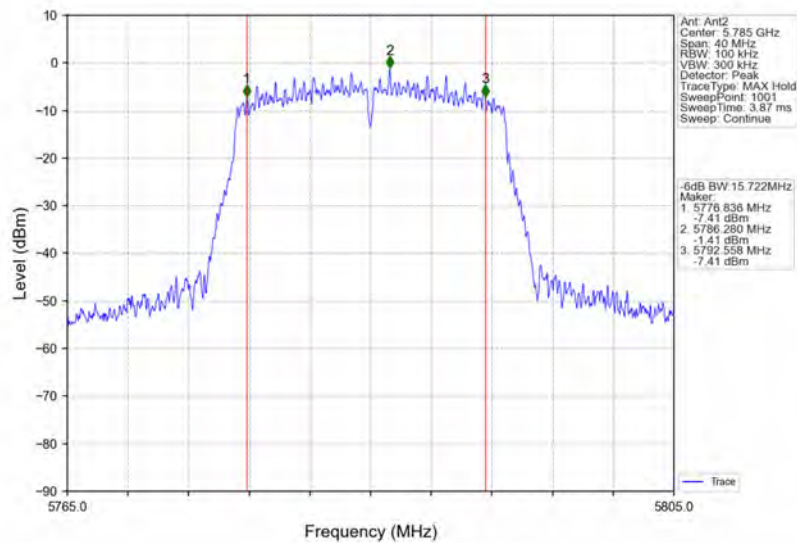
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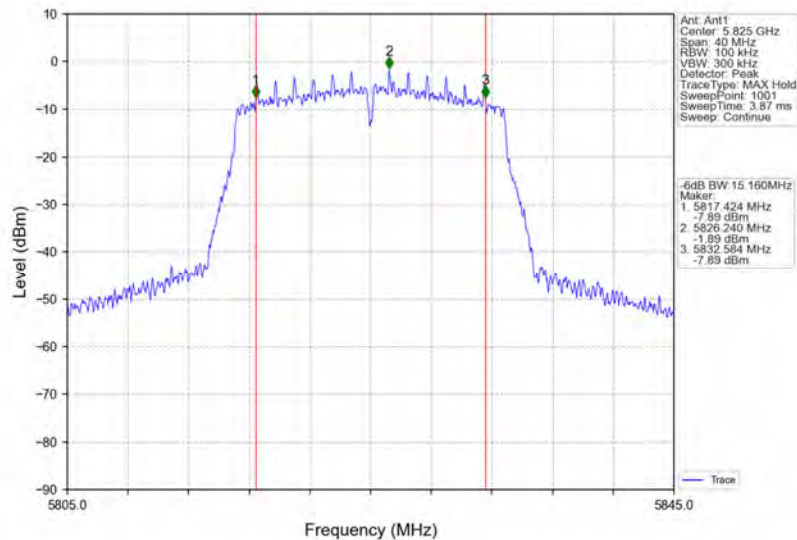
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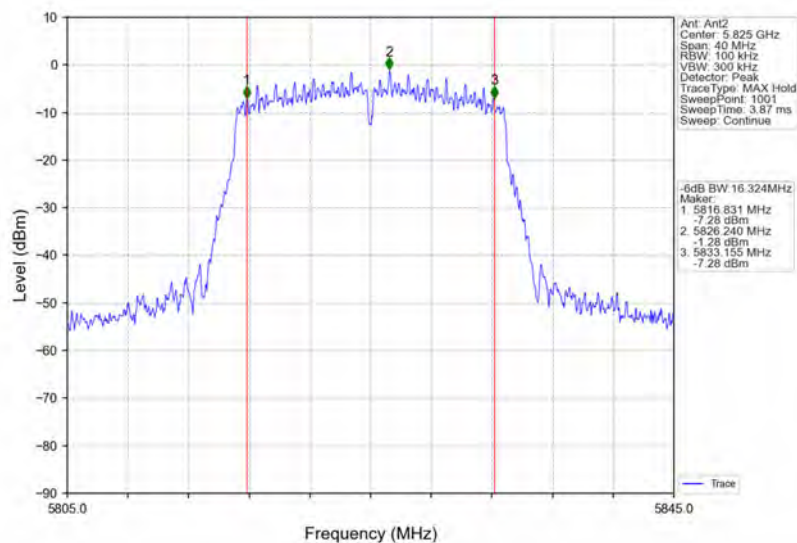
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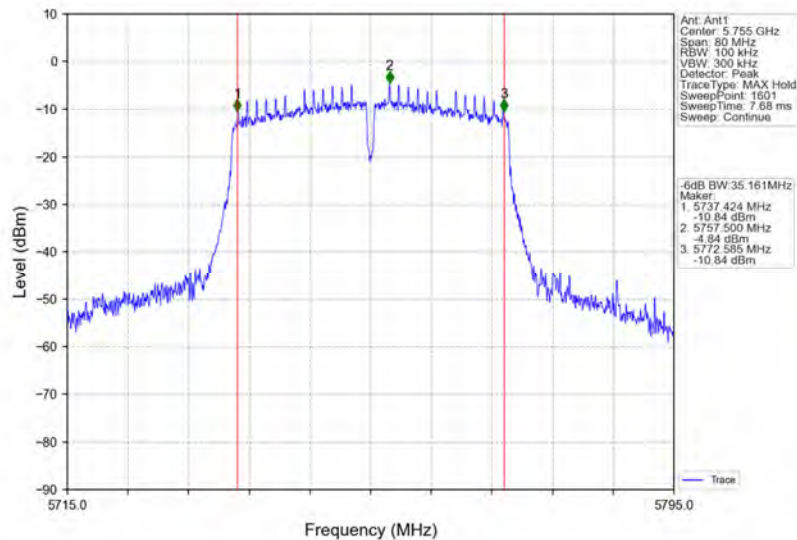
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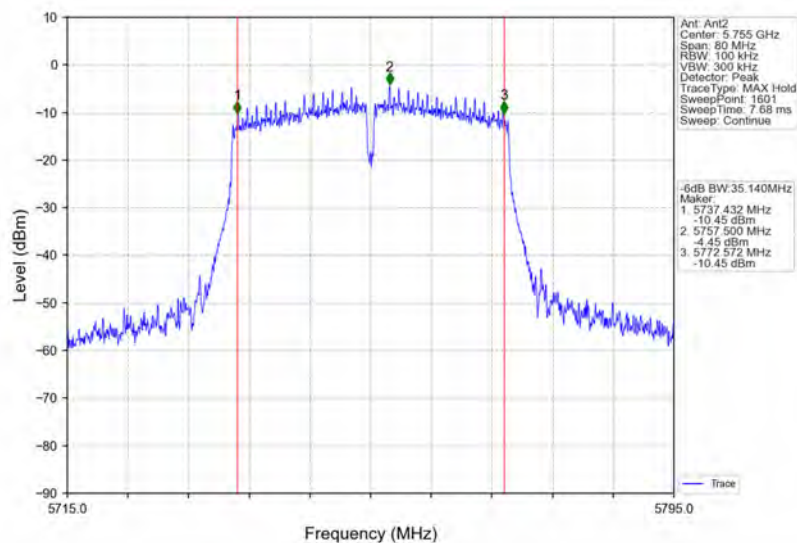
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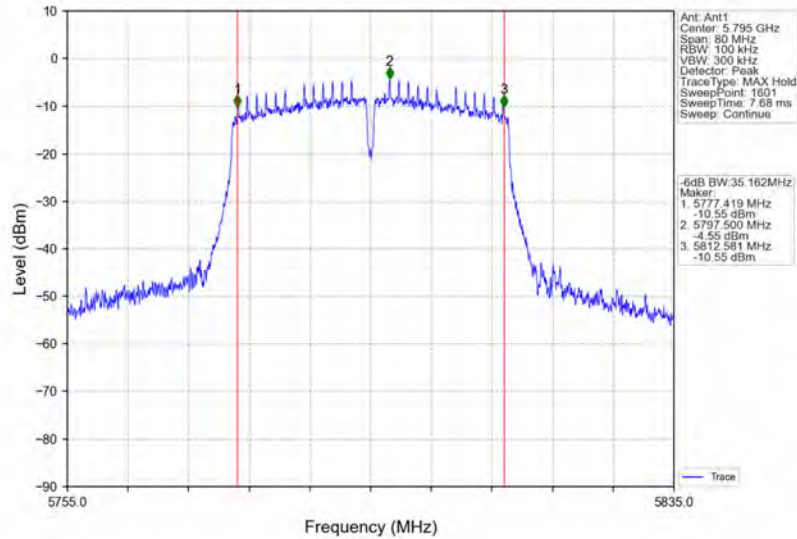
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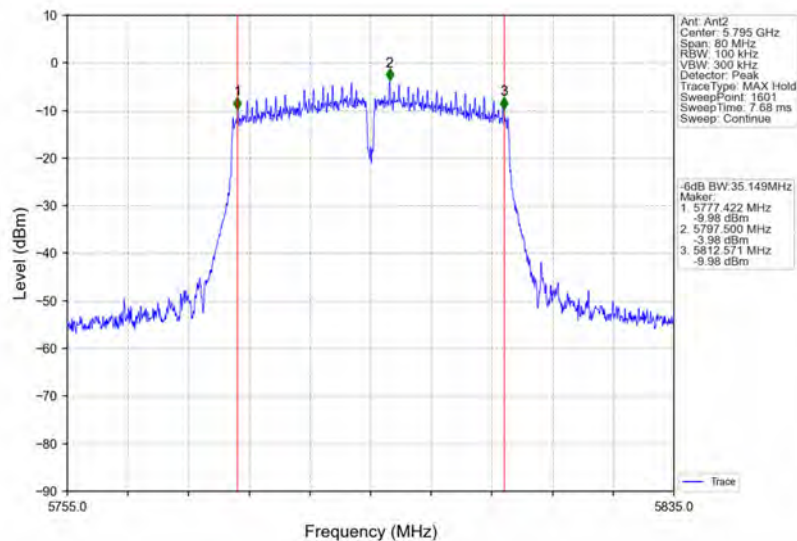
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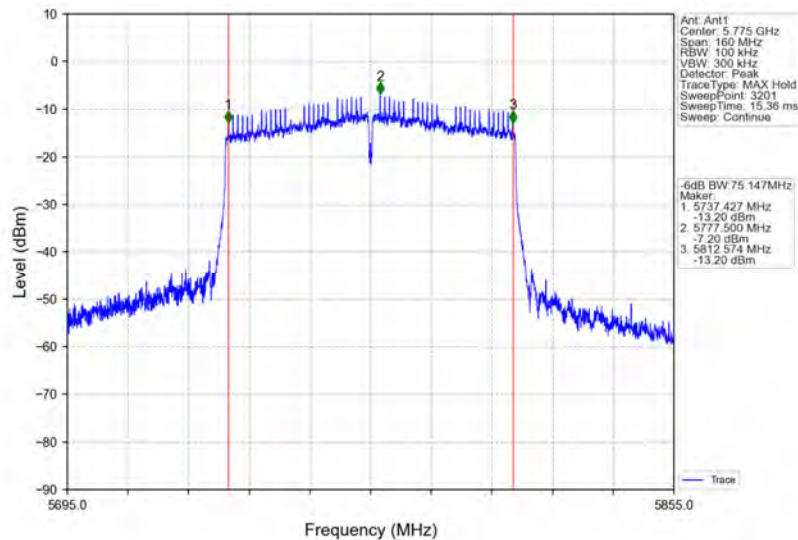
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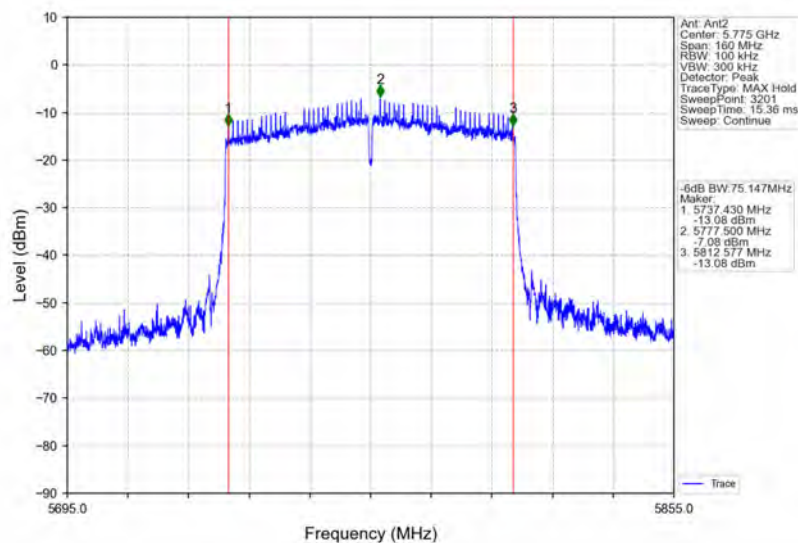
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2.3 26dB BW

2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	20.540	Pass
			2	20.535	Pass
		5200	1	20.455	Pass
			2	20.766	Pass
		5240	1	20.649	Pass
			2	20.658	Pass
802.11n (HT20)	MIMO	5180	1	20.889	Pass
			2	20.393	Pass
		5200	1	20.901	Pass
			2	20.531	Pass
		5240	1	20.922	Pass
			2	20.361	Pass
802.11n (HT40)	MIMO	5190	1	41.294	Pass
			2	41.494	Pass
		5230	1	41.234	Pass
			2	41.358	Pass
802.11ac (VHT20)	MIMO	5180	1	20.861	Pass
			2	20.386	Pass
		5200	1	20.842	Pass
			2	20.500	Pass
		5240	1	20.890	Pass
			2	20.390	Pass
802.11ac (VHT40)	MIMO	5190	1	41.438	Pass
			2	41.405	Pass
		5230	1	41.104	Pass
			2	41.306	Pass
802.11ac (VHT80)	MIMO	5210	1	83.096	Pass
			2	81.774	Pass



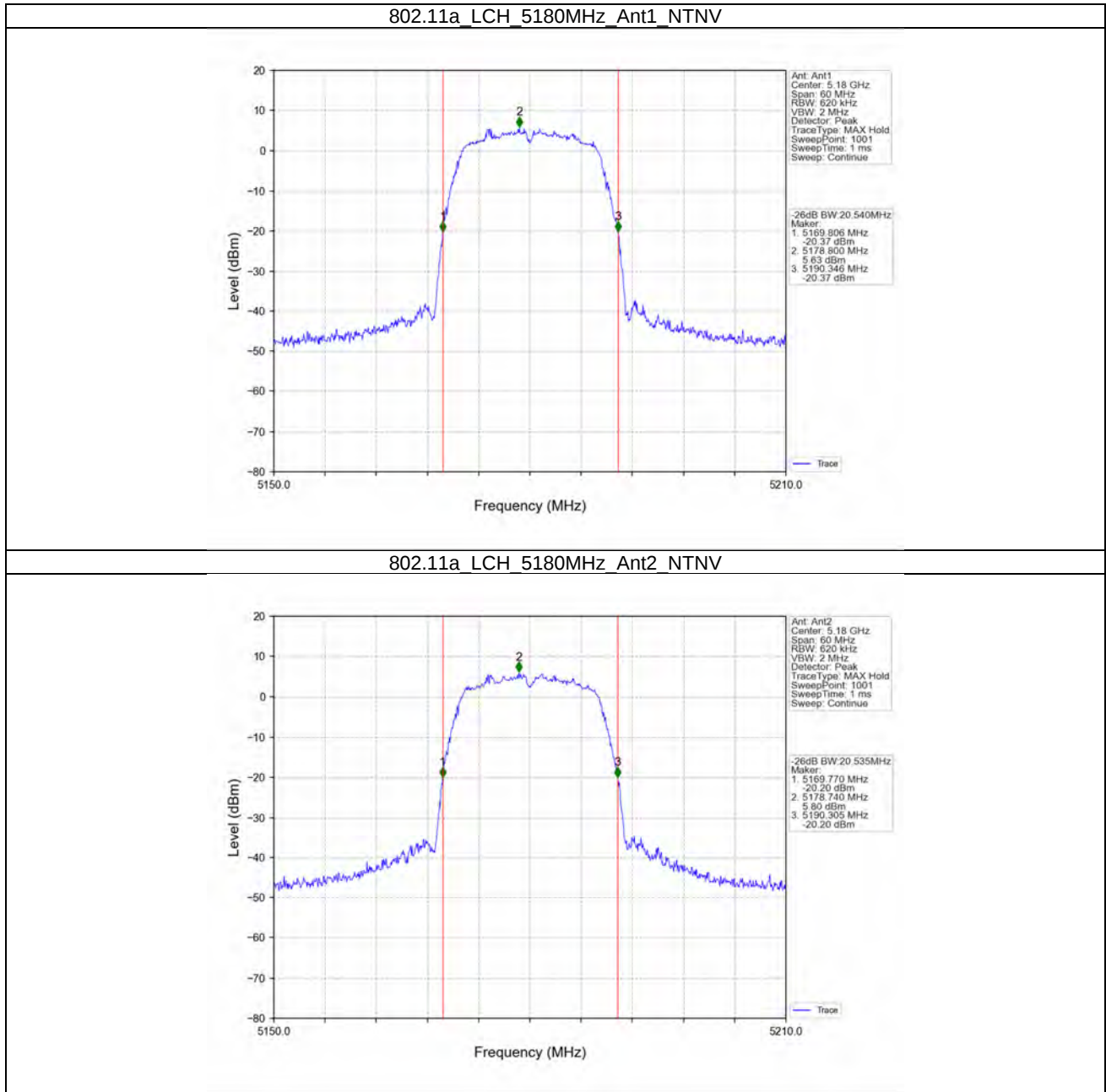
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2.3.2 Test Graph



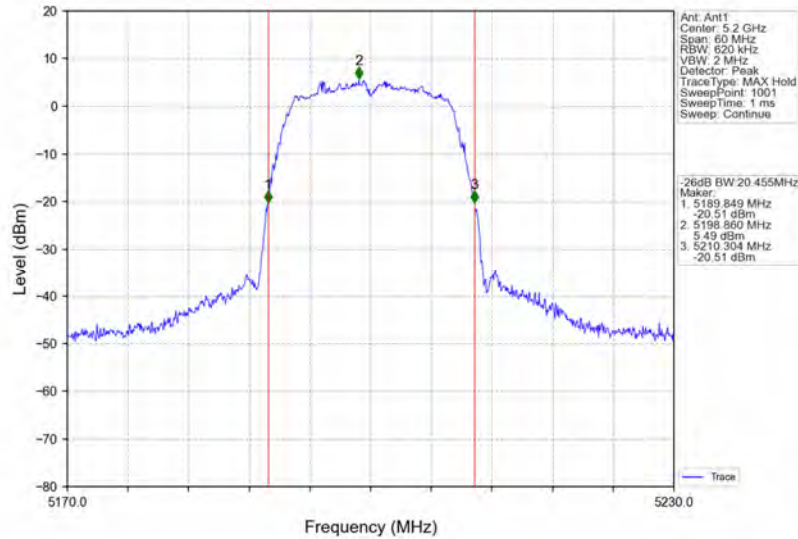
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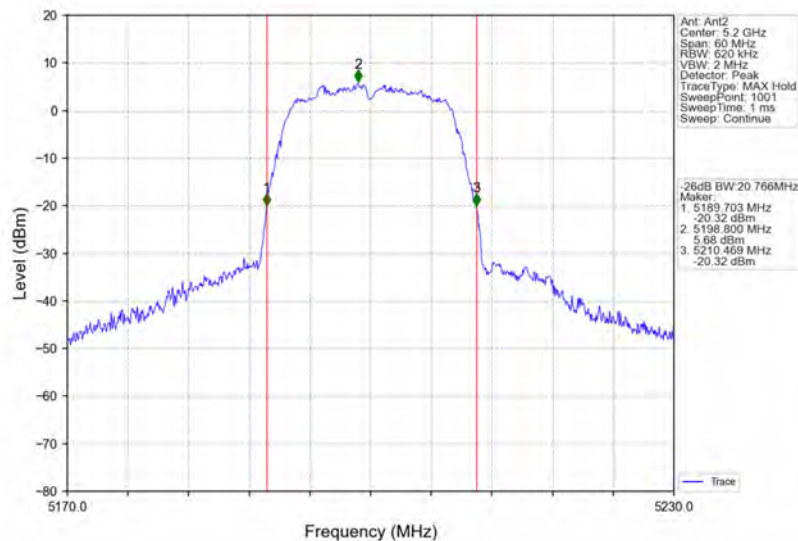
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802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV



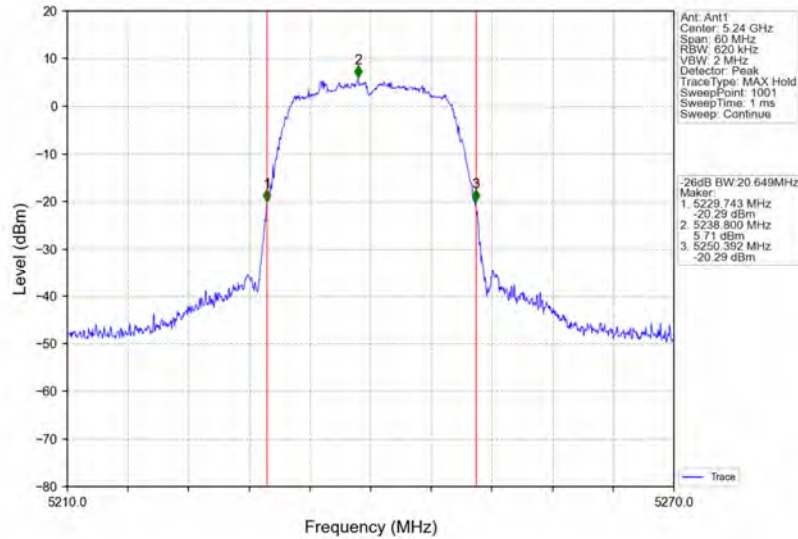
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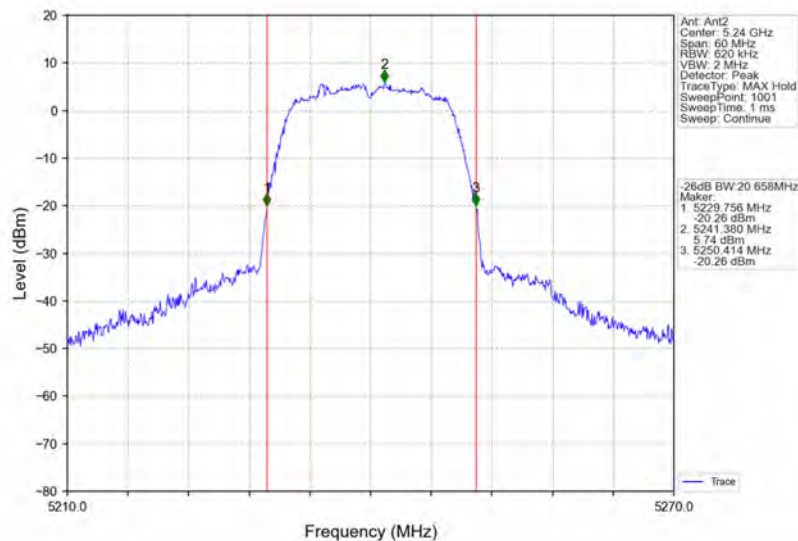
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802.11a_HCH_5240MHz_Ant2_NTNV



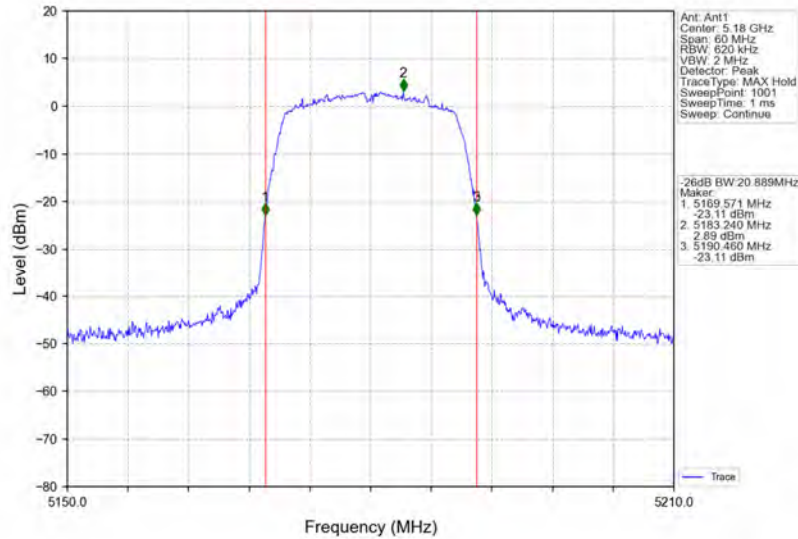
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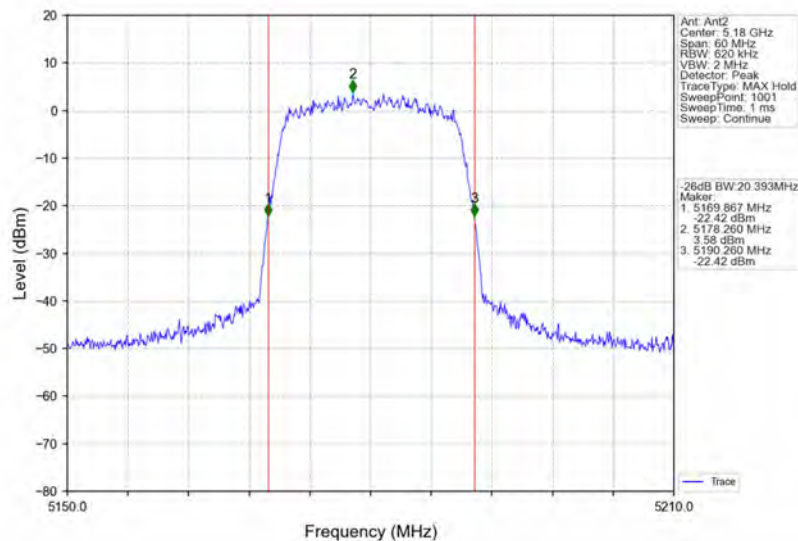
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



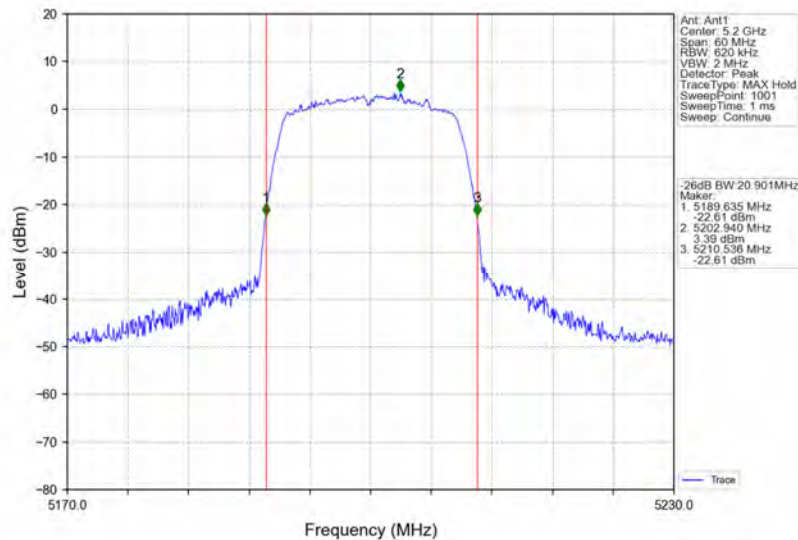
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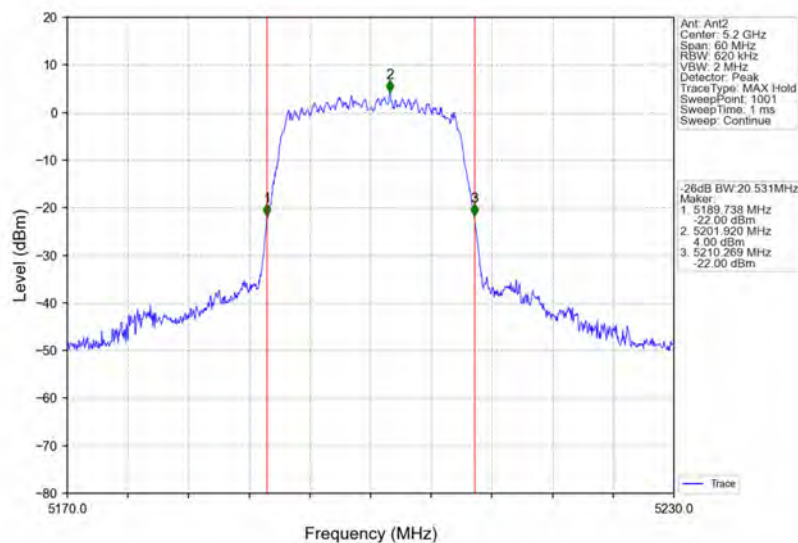
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802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



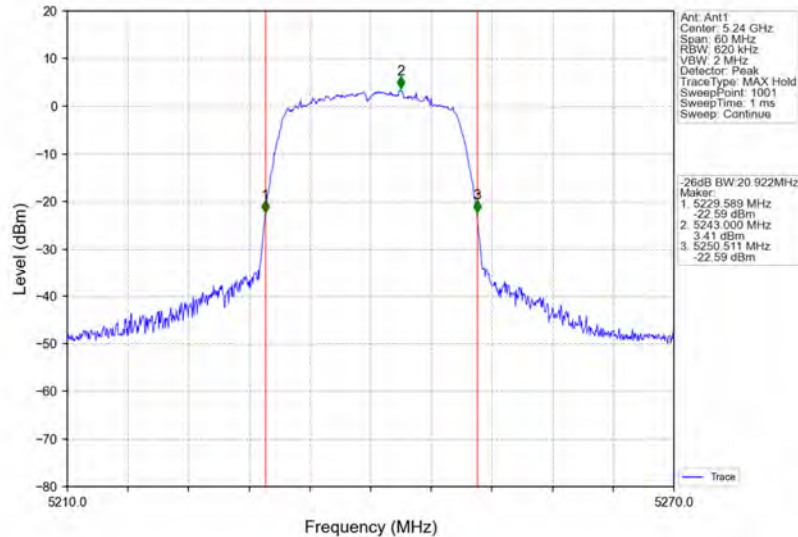
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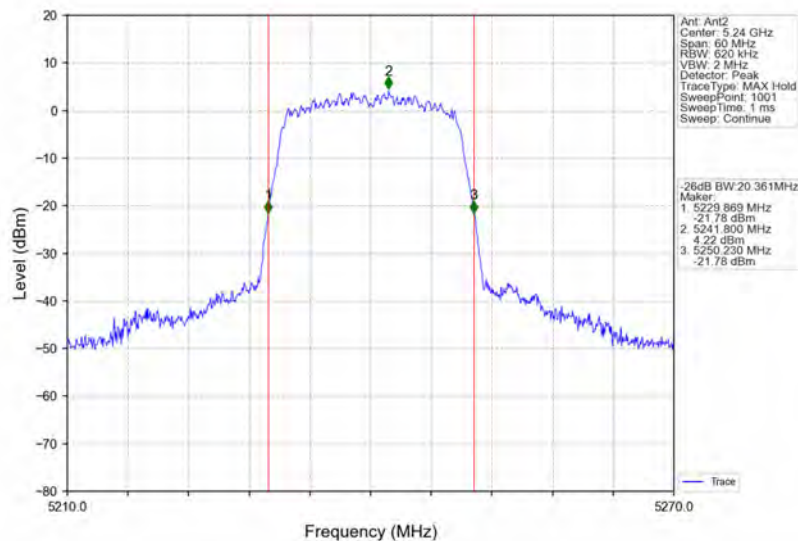
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802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



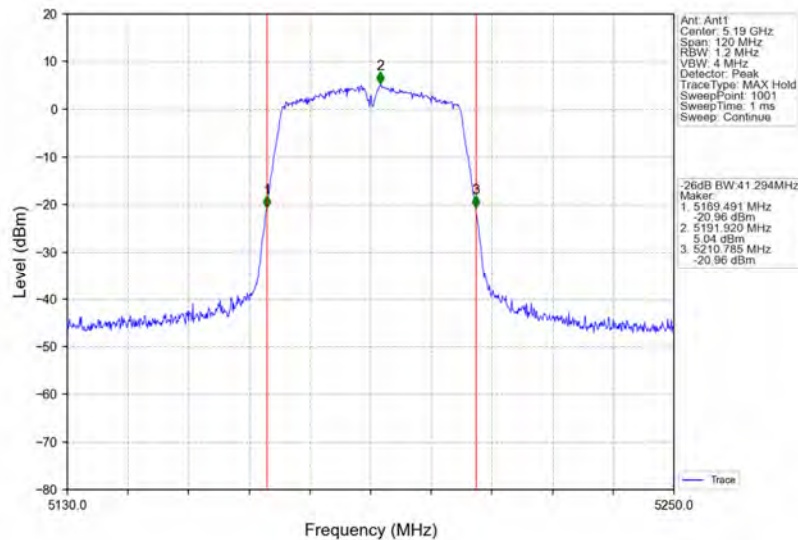
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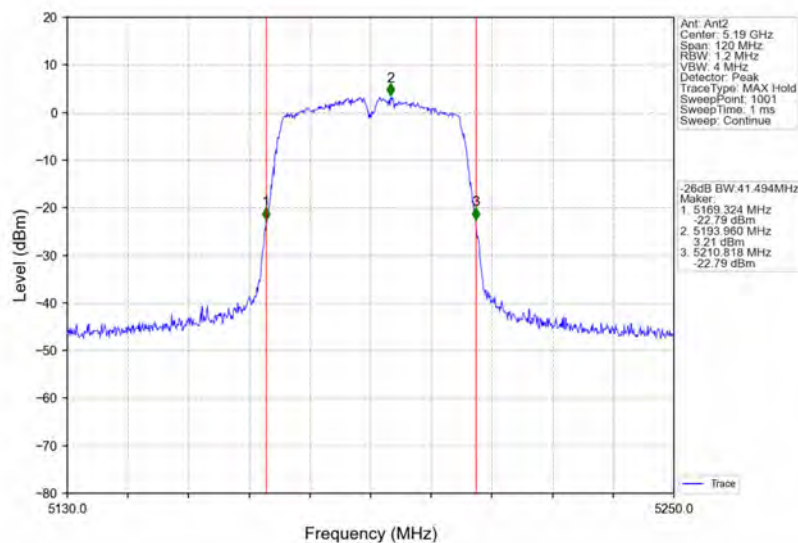
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



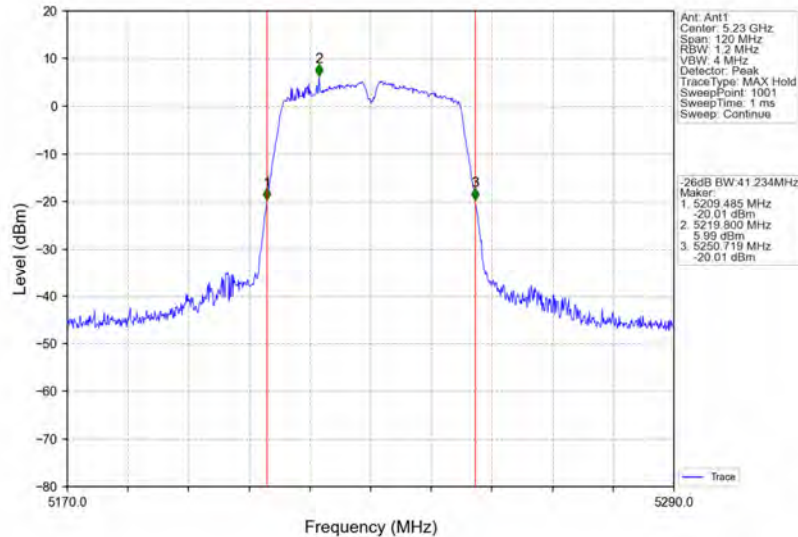
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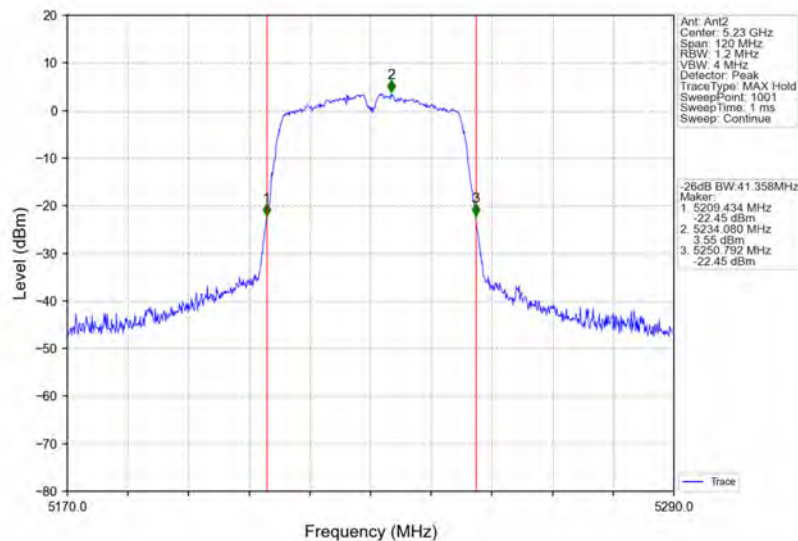
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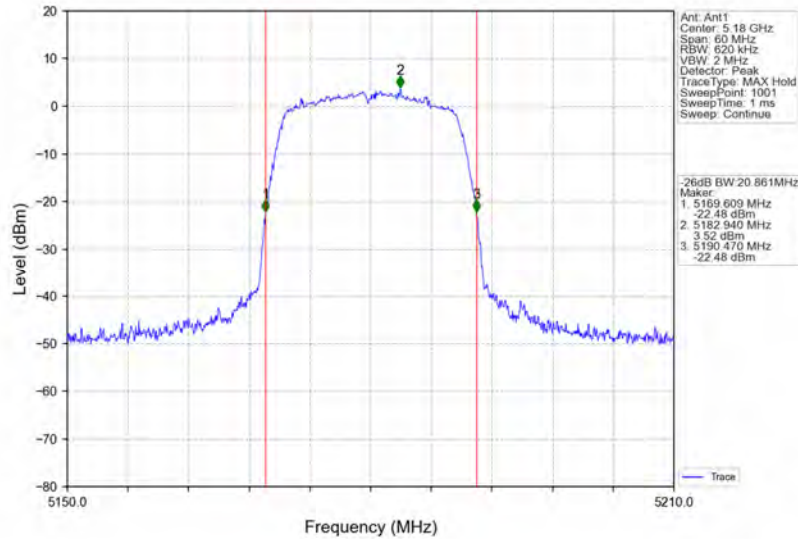
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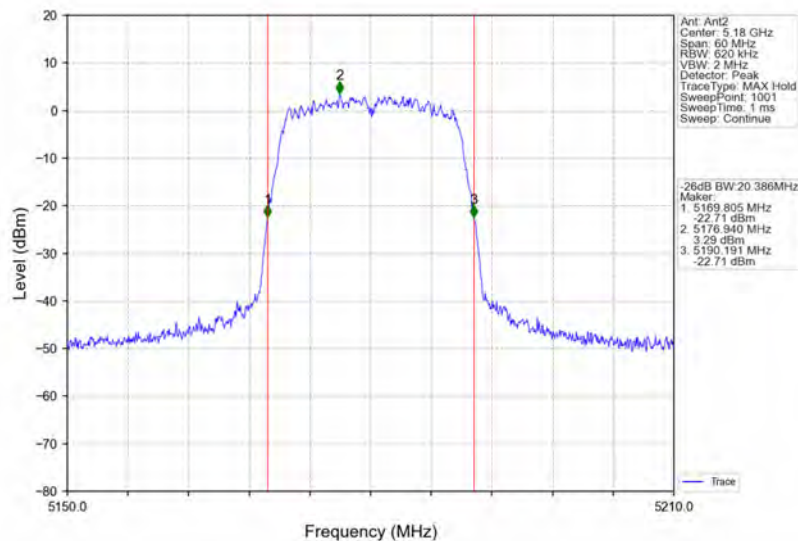
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802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



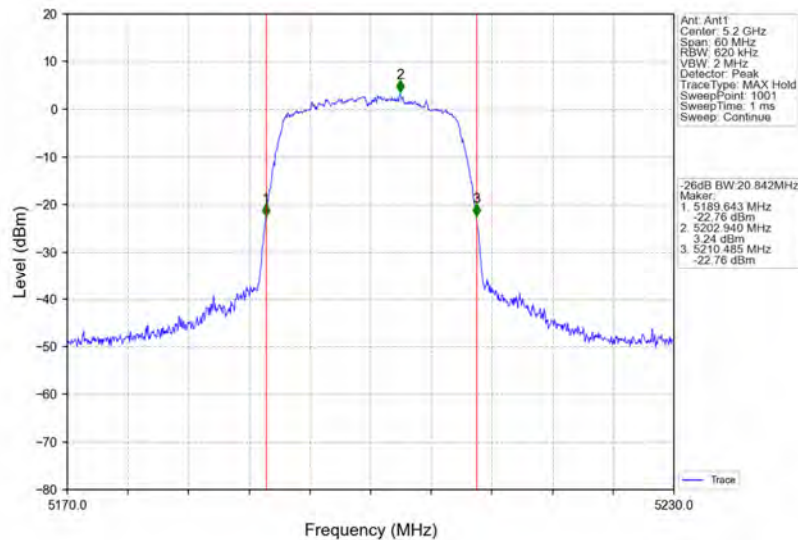
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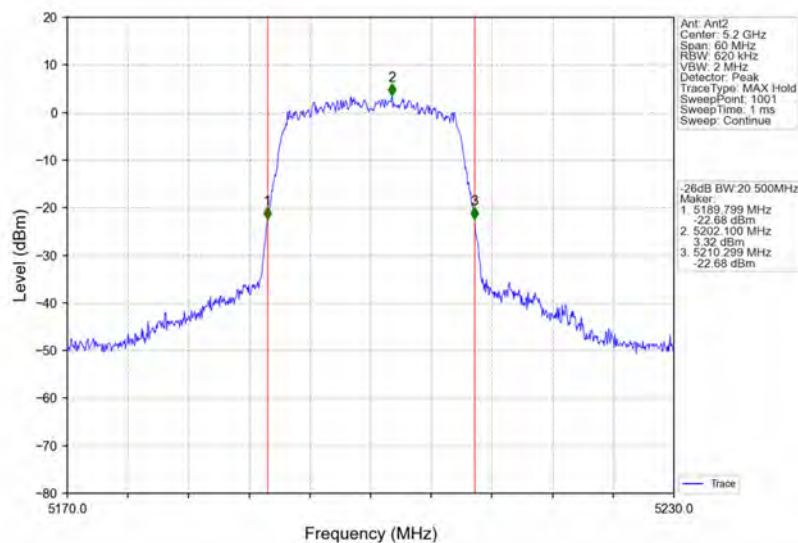
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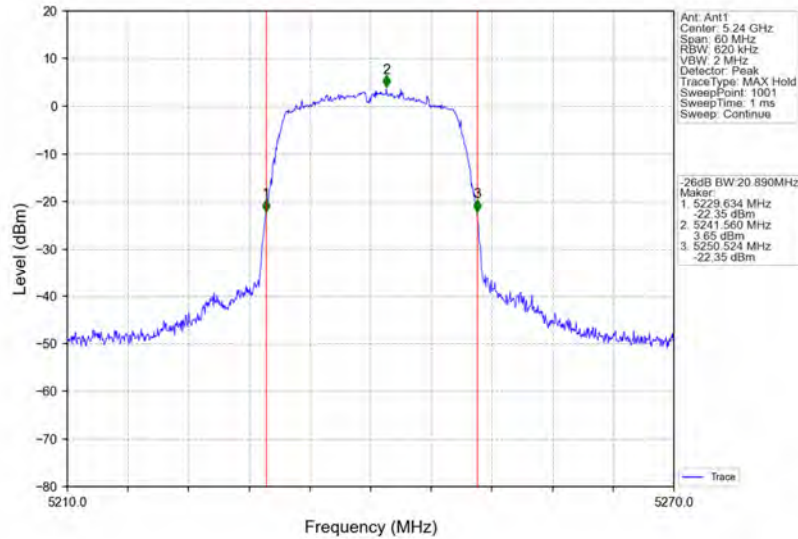
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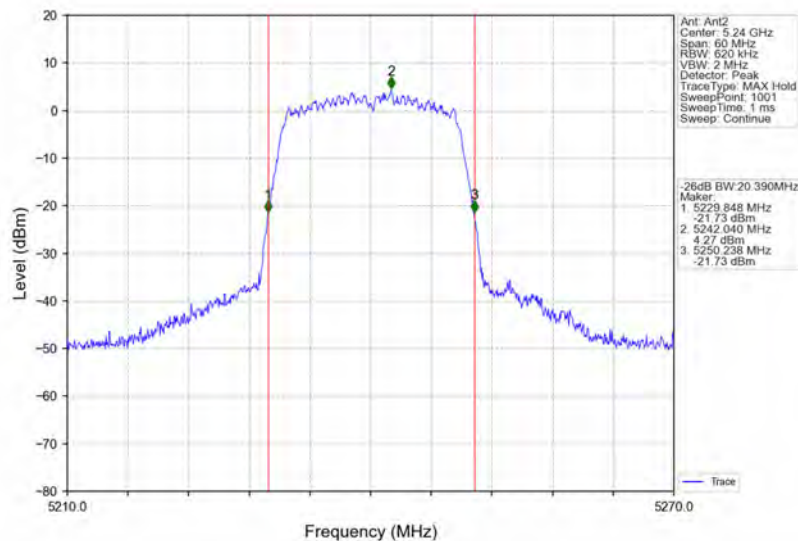
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



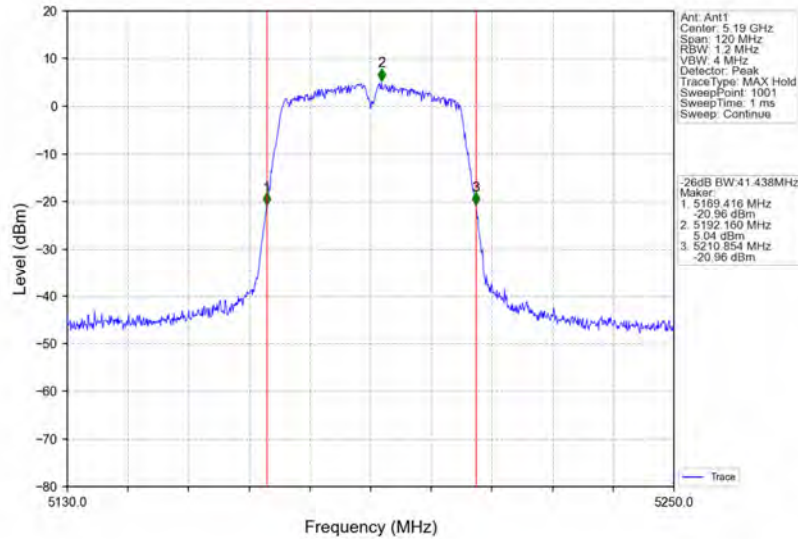
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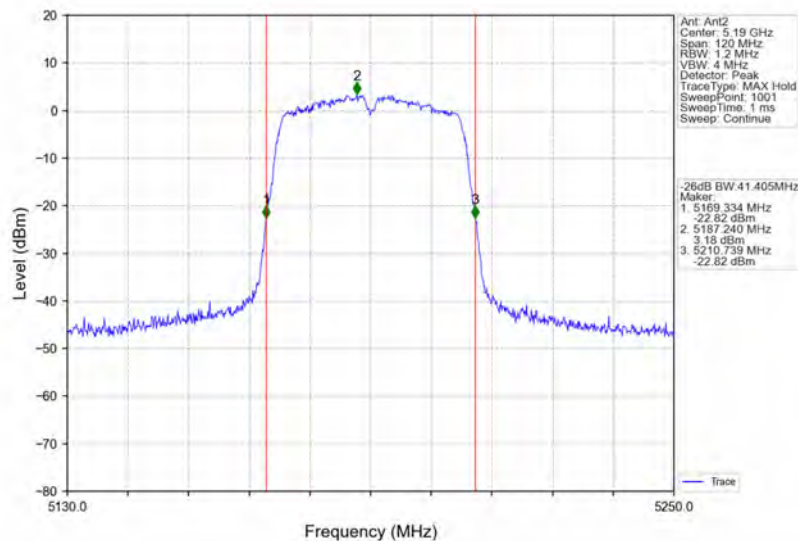
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



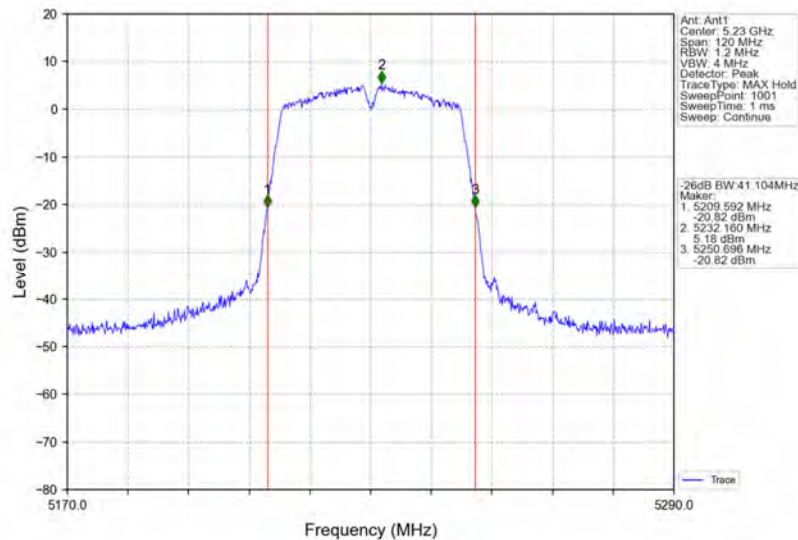
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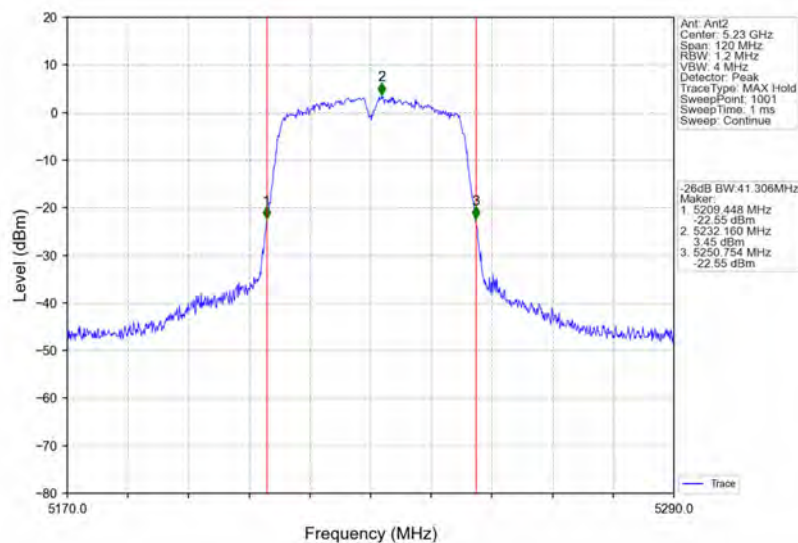
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



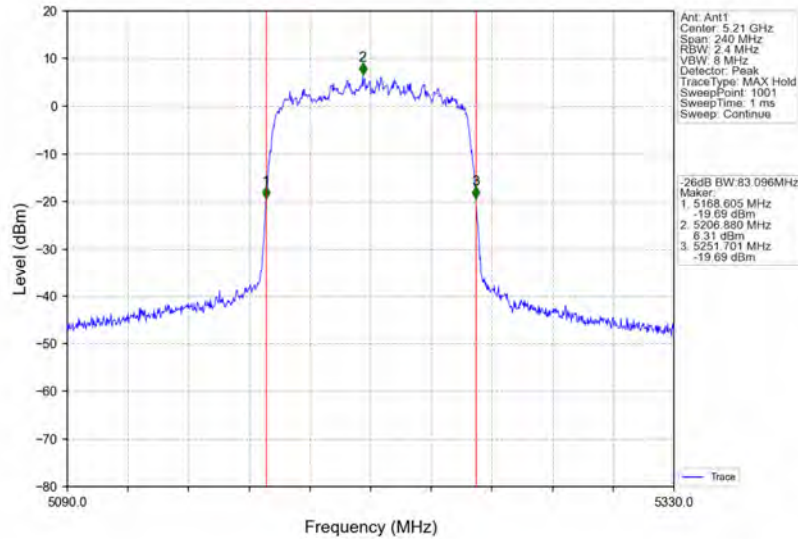
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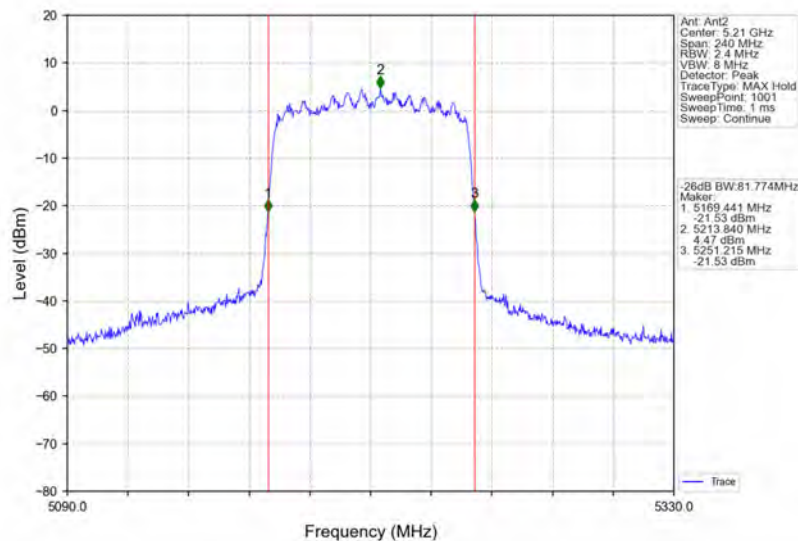
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



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3. Maximum Conducted Output Power

3.1 Power For FCC

3.1.1 Test Result

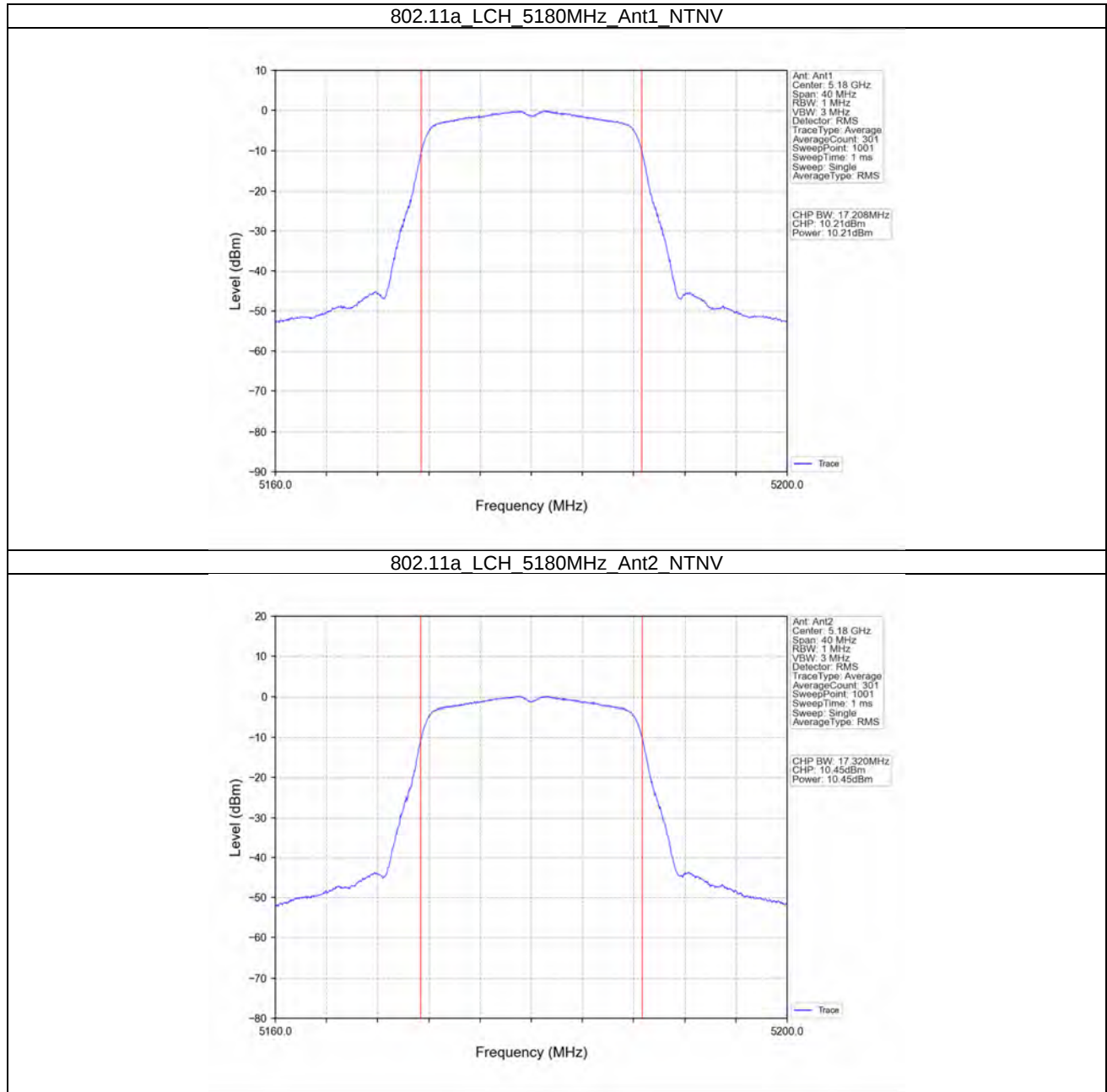
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	10.21	10.45	/	<=23.98	Pass
		5200	10.20	10.37	/	<=23.98	Pass
		5240	10.34	10.62	/	<=23.98	Pass
		5745	10.62	10.34	/	<=30	Pass
		5785	11.32	11.13	/	<=30	Pass
		5825	11.19	11.46	/	<=30	Pass
802.11n (HT20)	MIMO	5180	8.52	6.74	10.73	<=23.98	Pass
		5200	8.36	6.69	10.62	<=23.98	Pass
		5240	8.69	7.01	10.94	<=23.98	Pass
		5745	7.94	7.61	10.79	<=30	Pass
		5785	8.40	8.52	11.47	<=30	Pass
		5825	8.27	8.89	11.60	<=30	Pass
802.11n (HT40)	MIMO	5190	8.55	6.77	10.76	<=23.98	Pass
		5230	8.72	6.99	10.95	<=23.98	Pass
		5755	7.99	7.82	10.92	<=30	Pass
		5795	8.30	8.42	11.37	<=30	Pass
802.11ac (VHT20)	MIMO	5180	8.65	6.88	10.86	<=23.98	Pass
		5200	8.31	6.73	10.60	<=23.98	Pass
		5240	8.46	6.87	10.75	<=23.98	Pass
		5745	7.72	7.48	10.61	<=30	Pass
		5785	8.16	8.34	11.26	<=30	Pass
		5825	8.16	8.76	11.48	<=30	Pass
802.11ac (VHT40)	MIMO	5190	8.80	7.04	11.02	<=23.98	Pass
		5230	8.95	7.22	11.18	<=23.98	Pass
		5755	8.27	8.12	11.21	<=30	Pass
		5795	8.56	8.72	11.65	<=30	Pass
802.11ac (VHT80)	MIMO	5210	8.33	6.60	10.56	<=23.98	Pass
		5775	8.45	8.34	11.41	<=30	Pass

Note1: Antenna Gain: Ant1: U-NII-1 0.29dBi; U-NII-3: -1.16dBi; Ant2: U-NII-1 0.12dBi; U-NII-3: 0.99dBi;
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)



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3.2.2 Test Graph



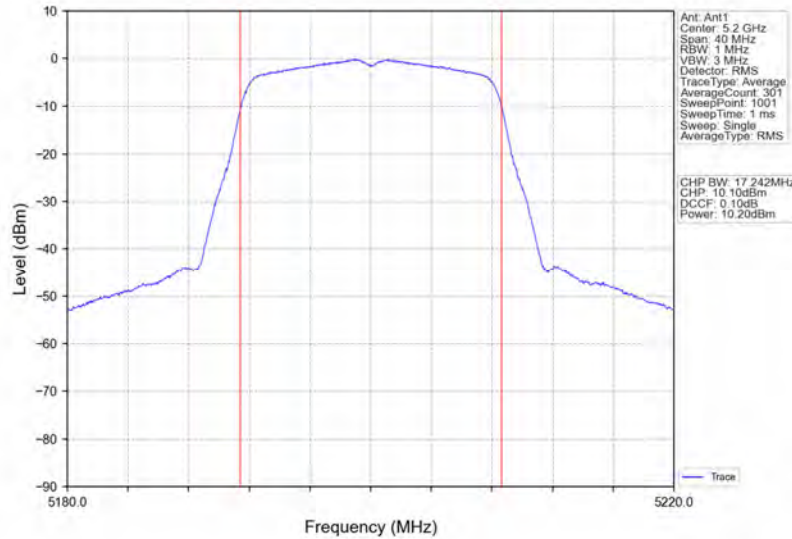
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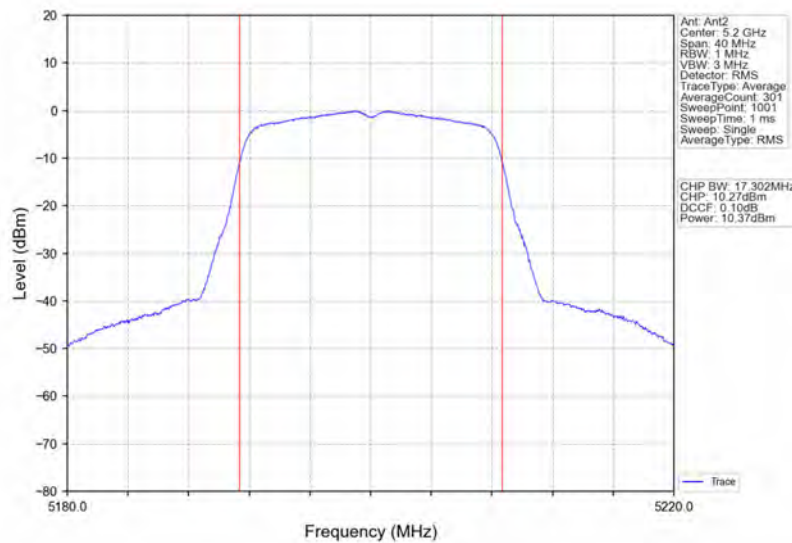
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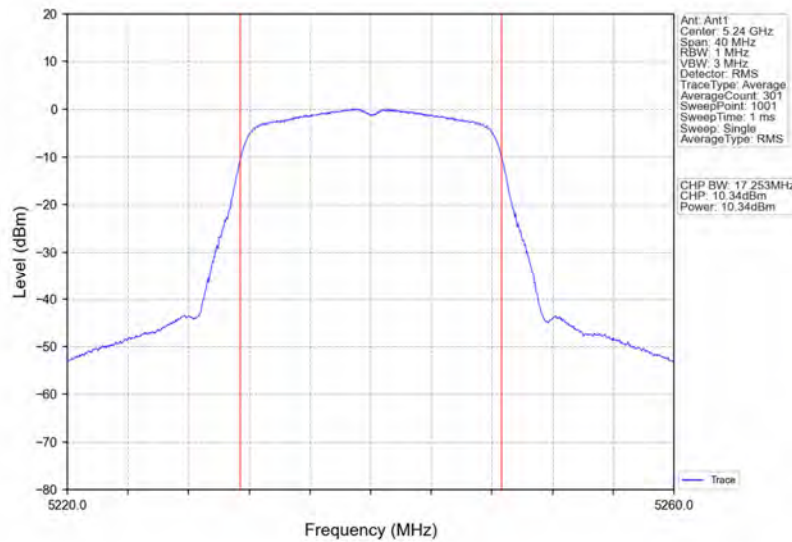
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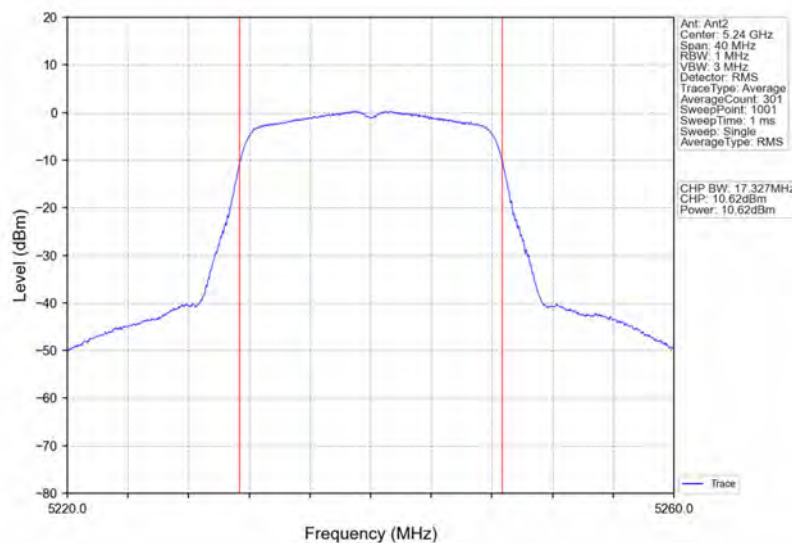
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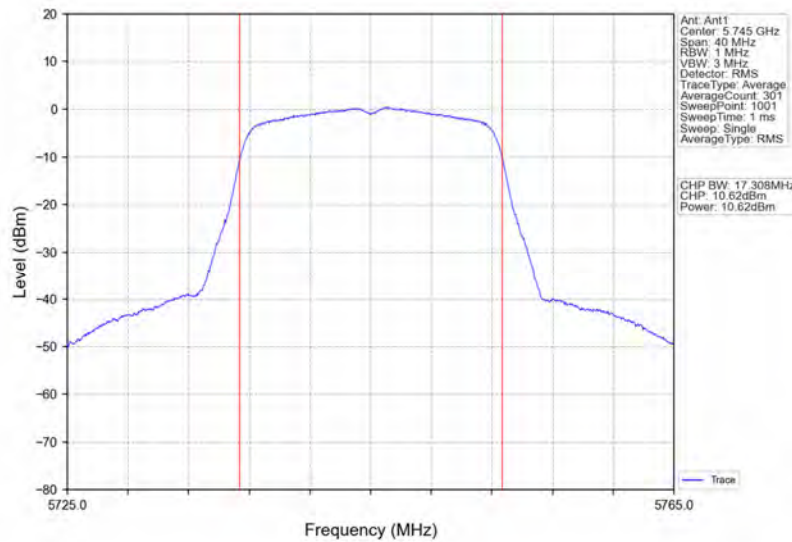
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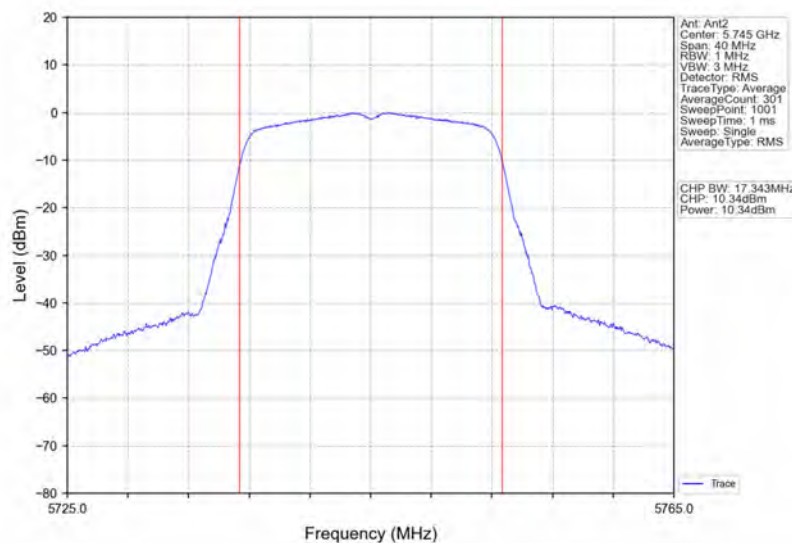
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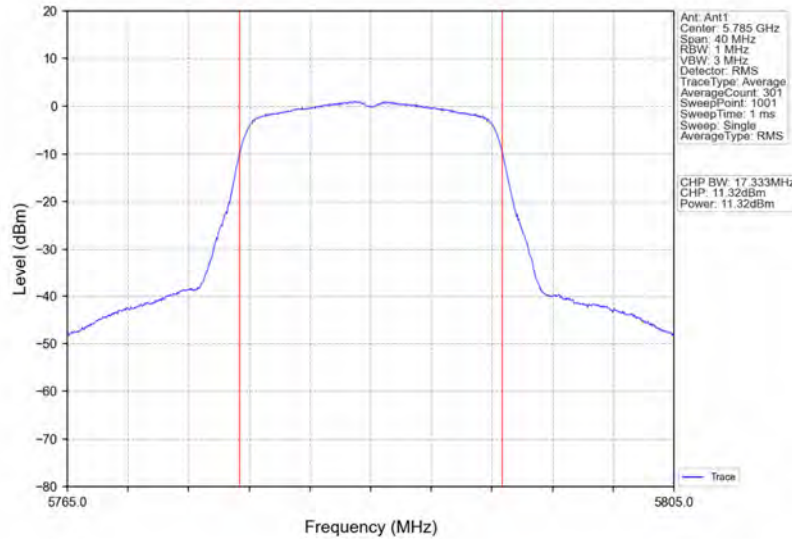
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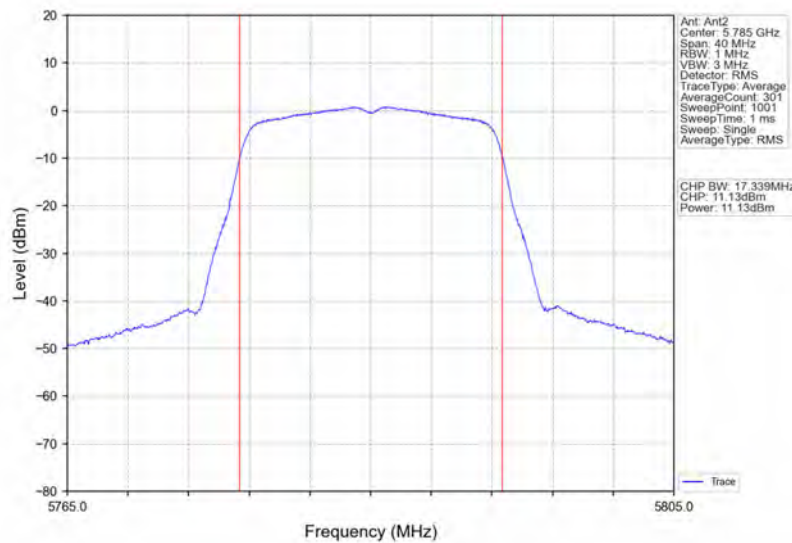
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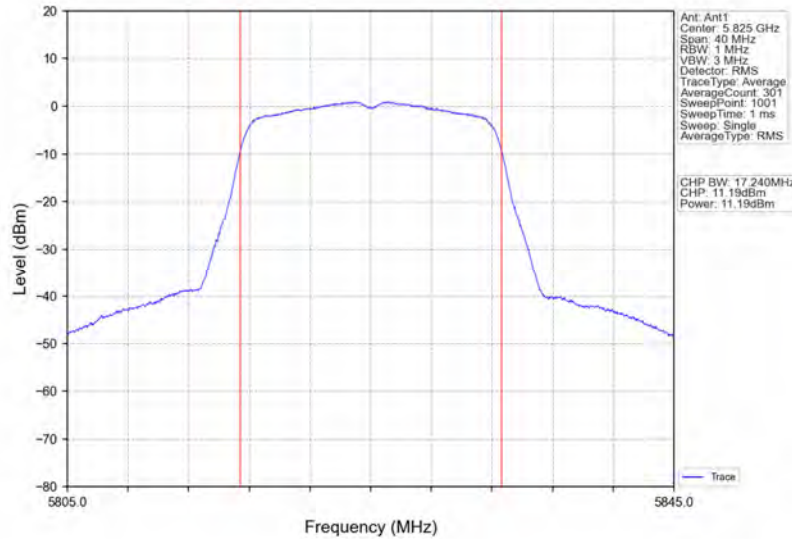
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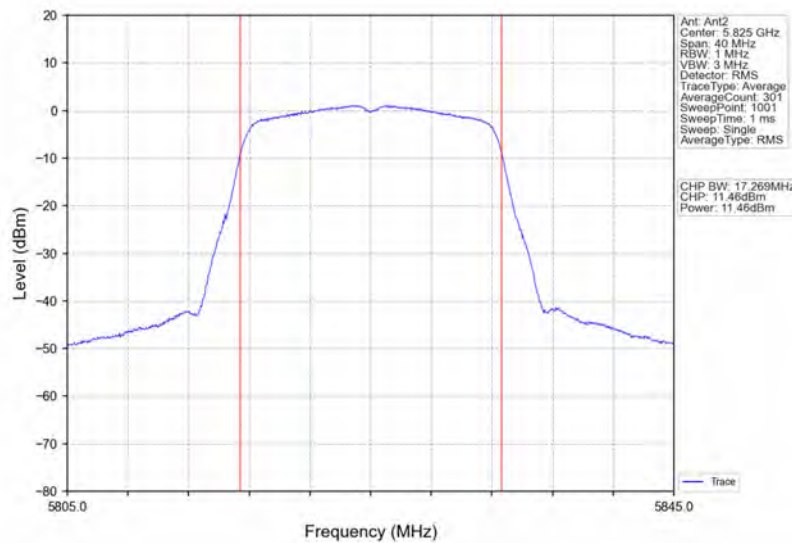
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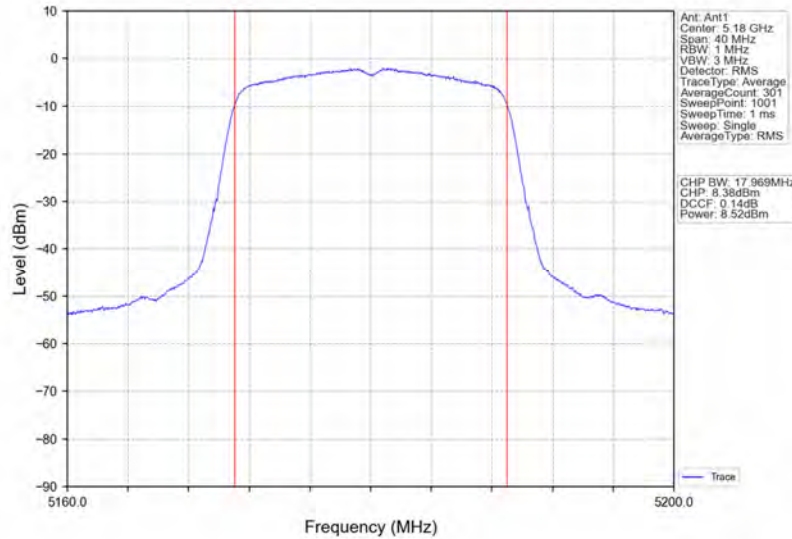
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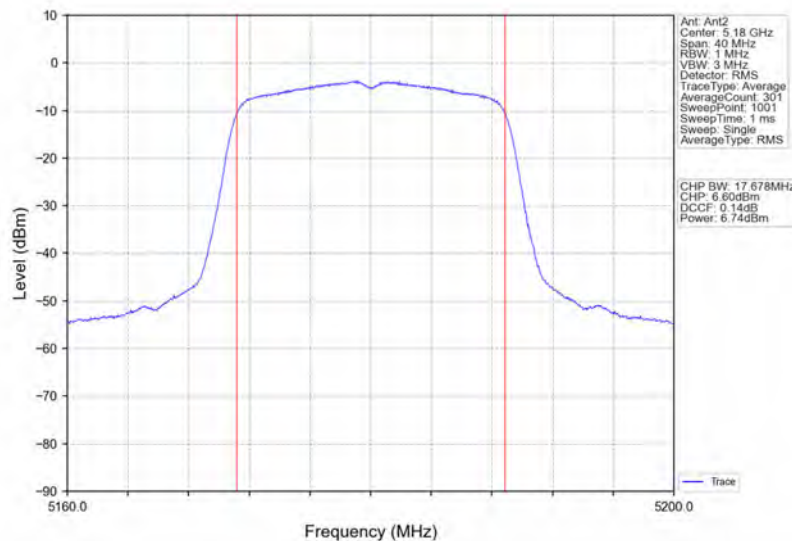
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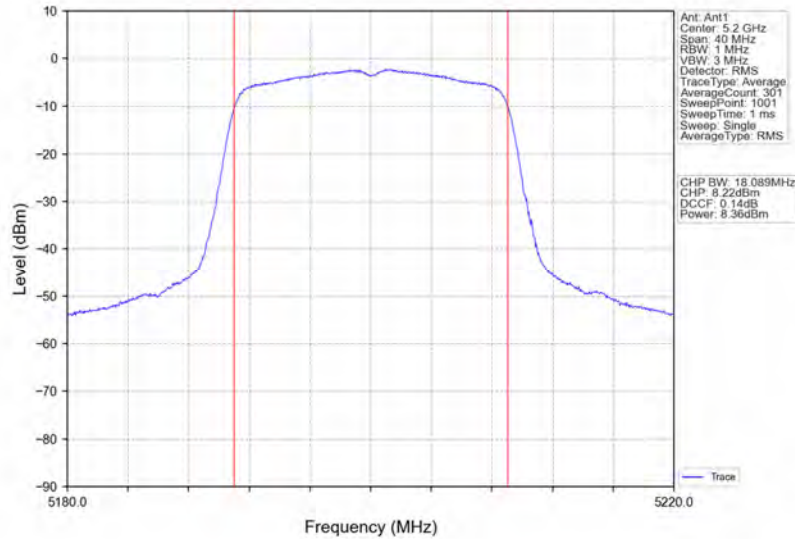
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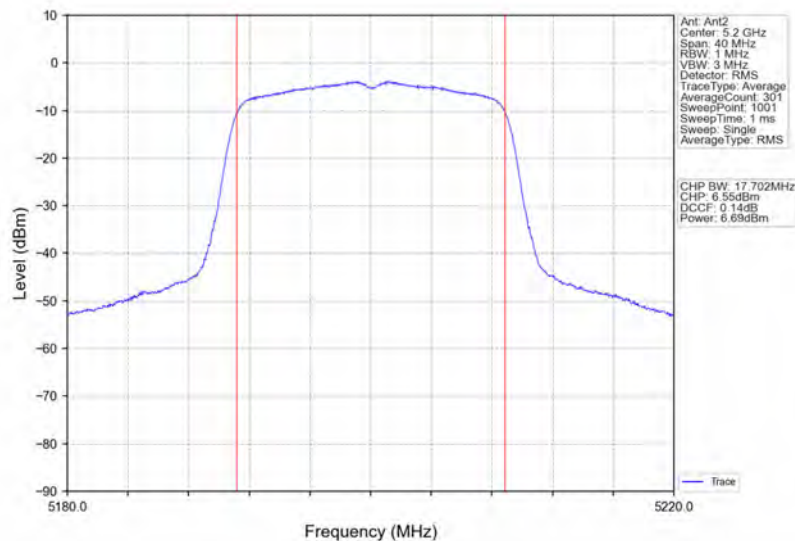
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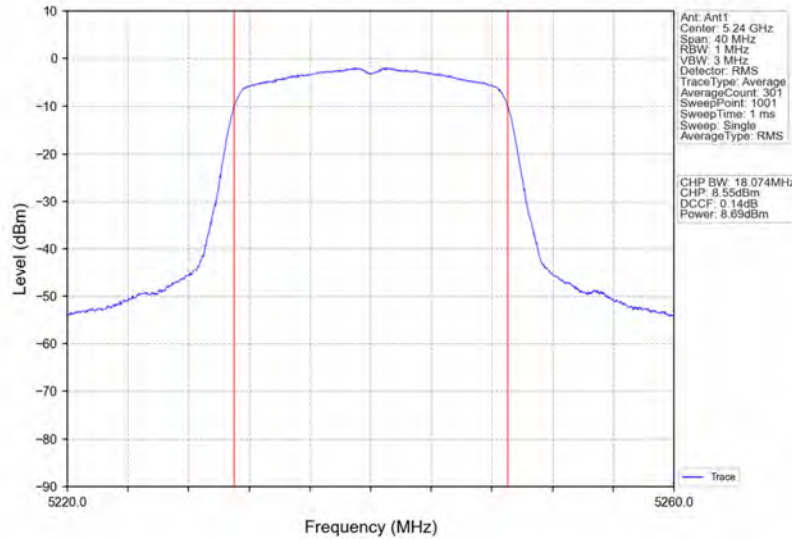
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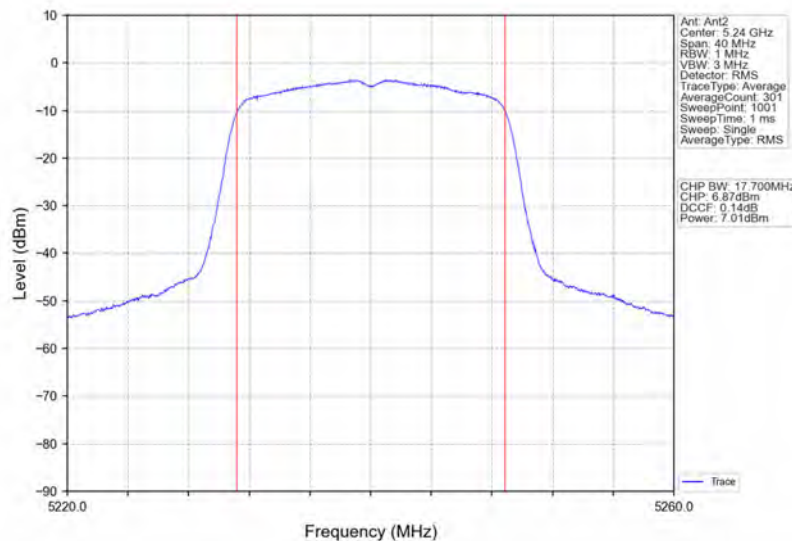
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



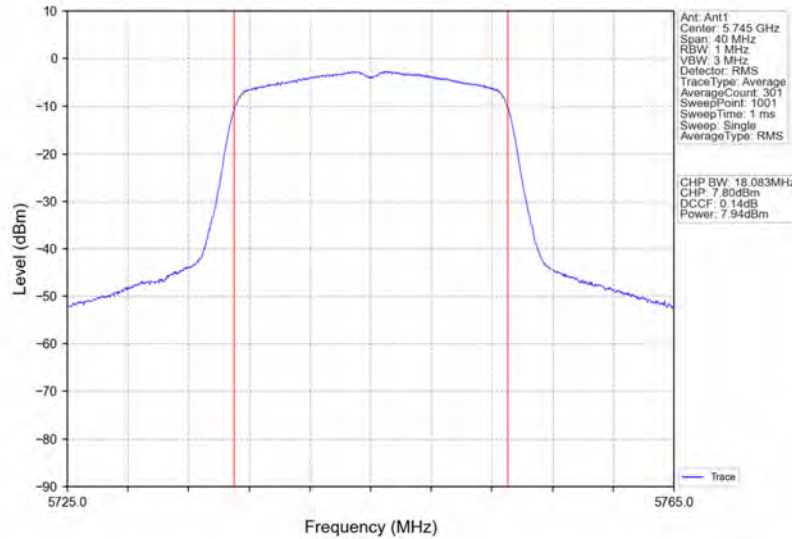
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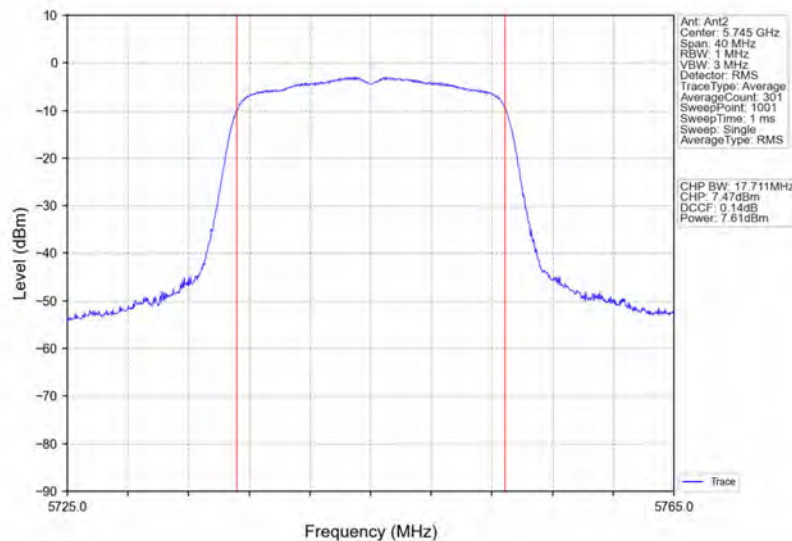
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802.11n(HT20) LCH_5745MHz_Ant1_NTNV



802.11n(HT20) LCH_5745MHz_Ant2_NTNV



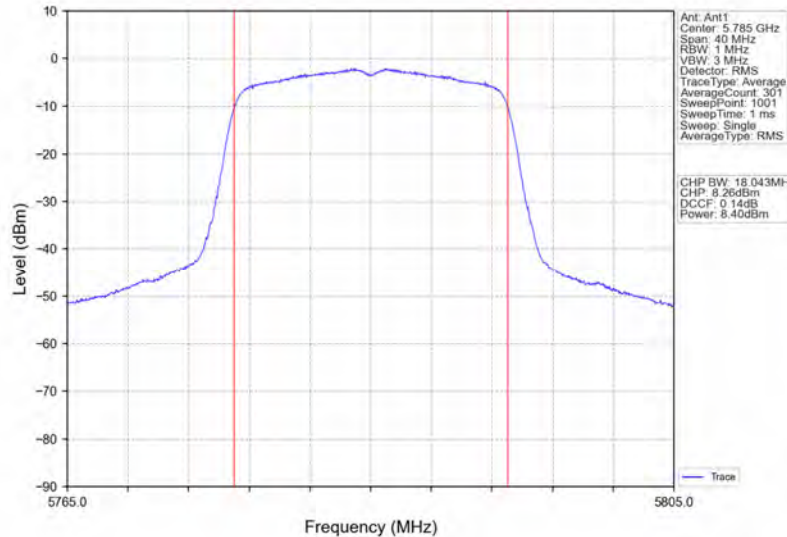
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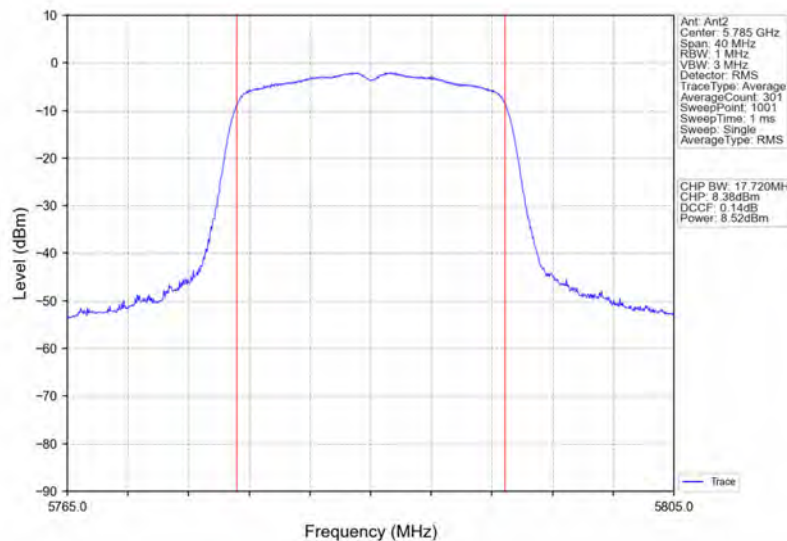
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



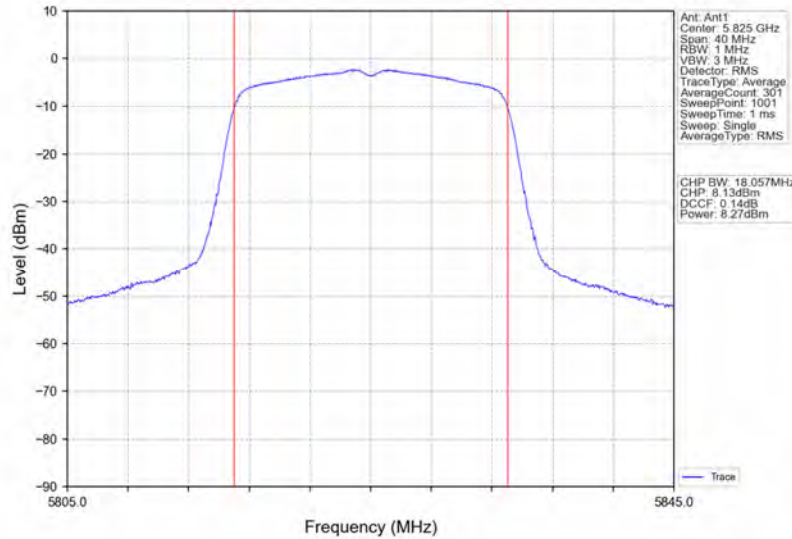
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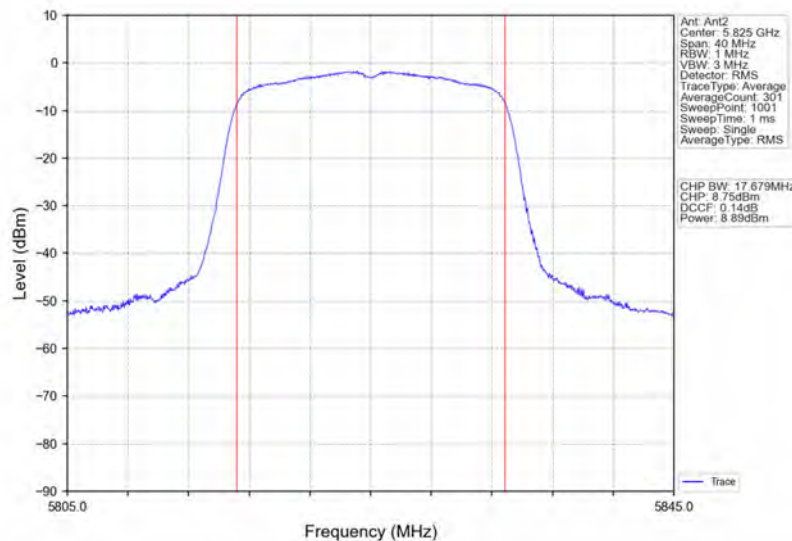
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



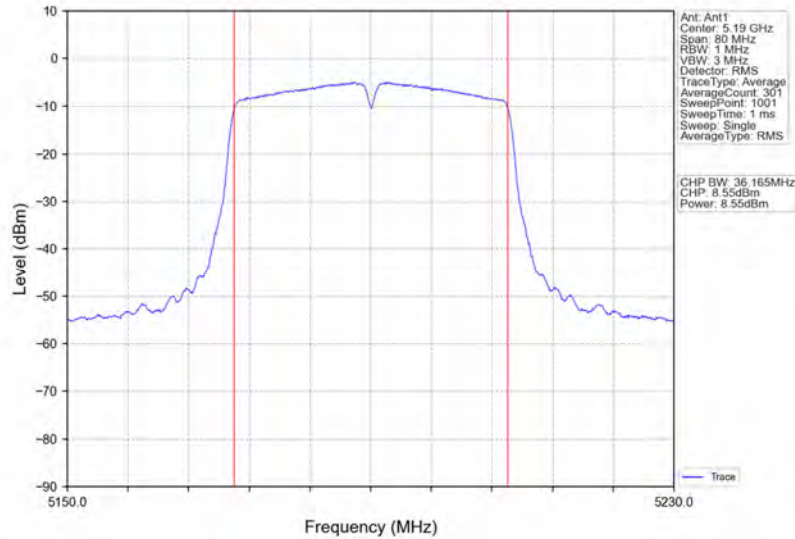
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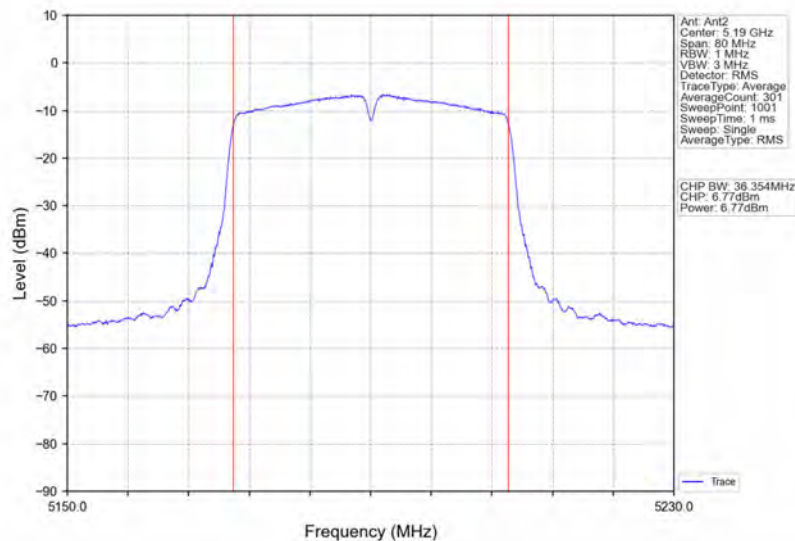
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



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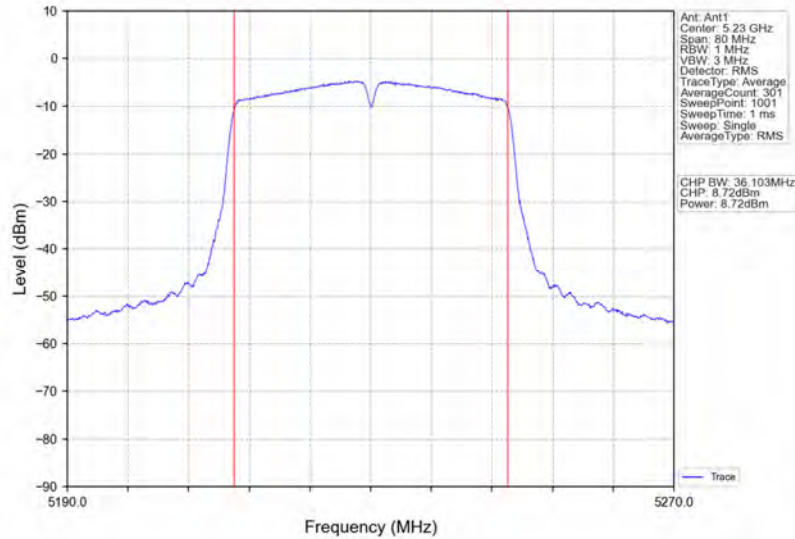
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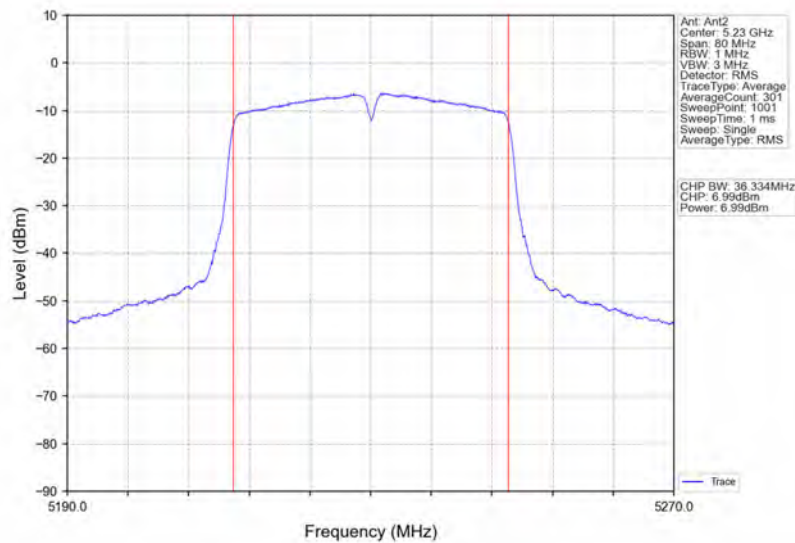
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



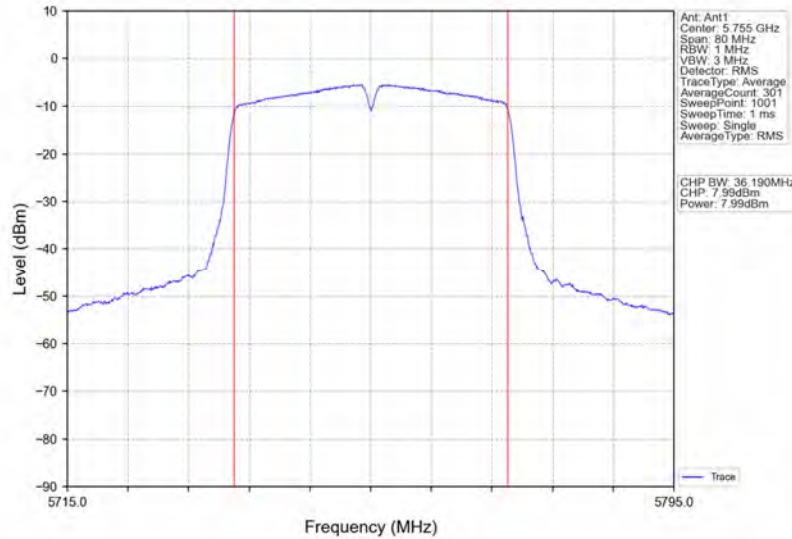
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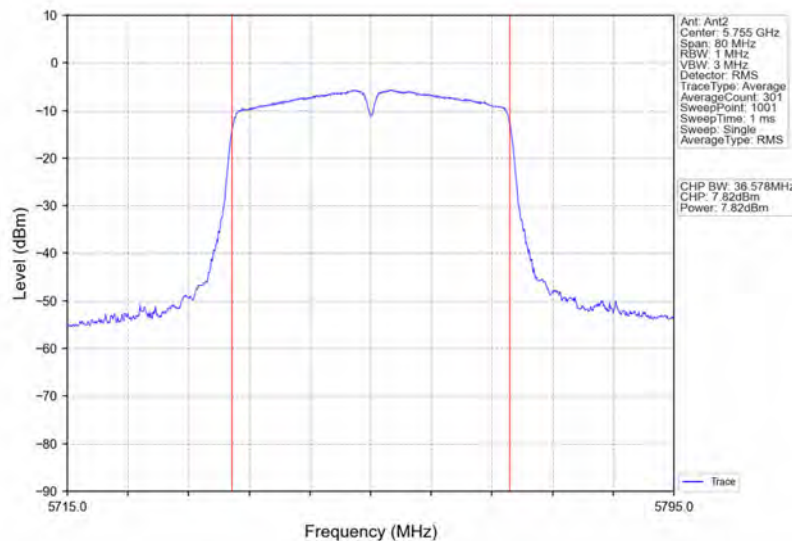
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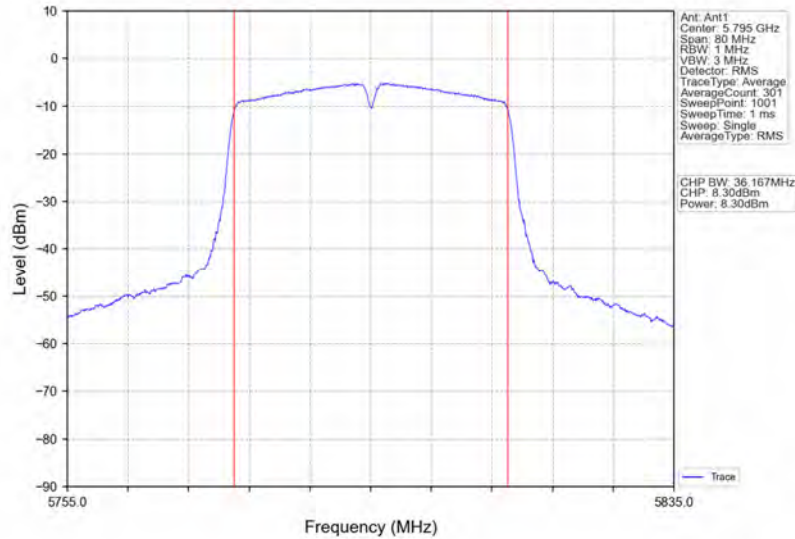
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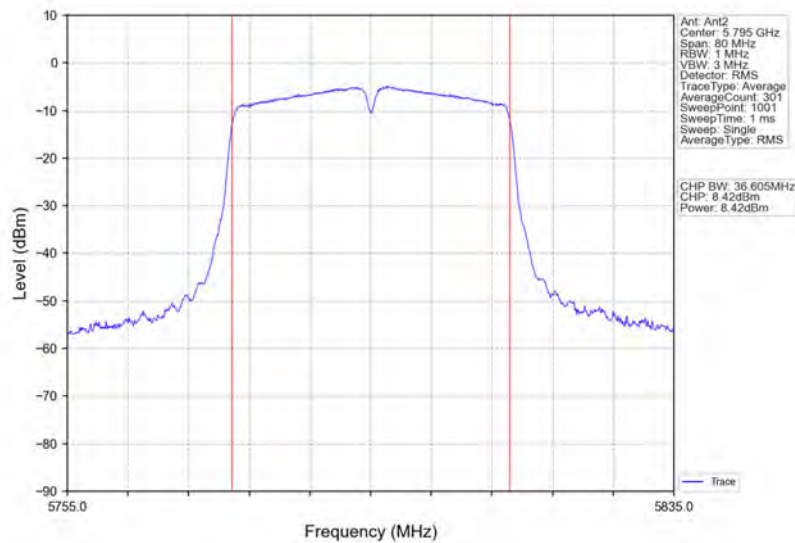
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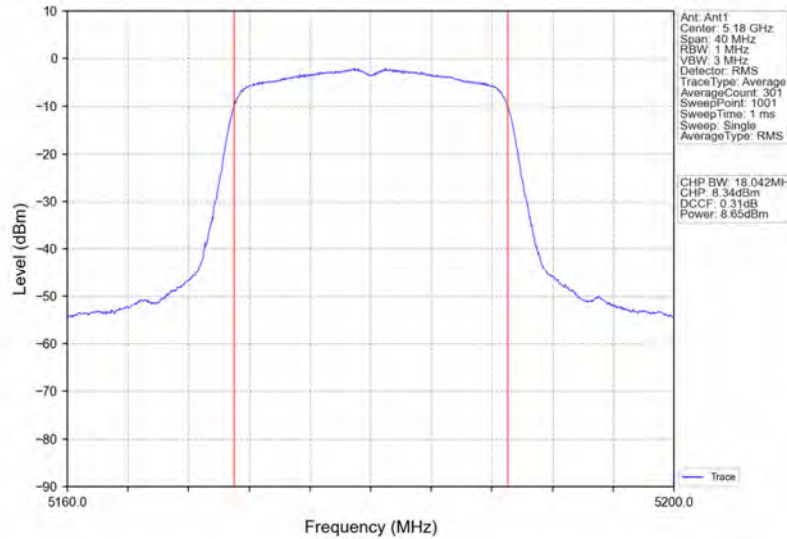
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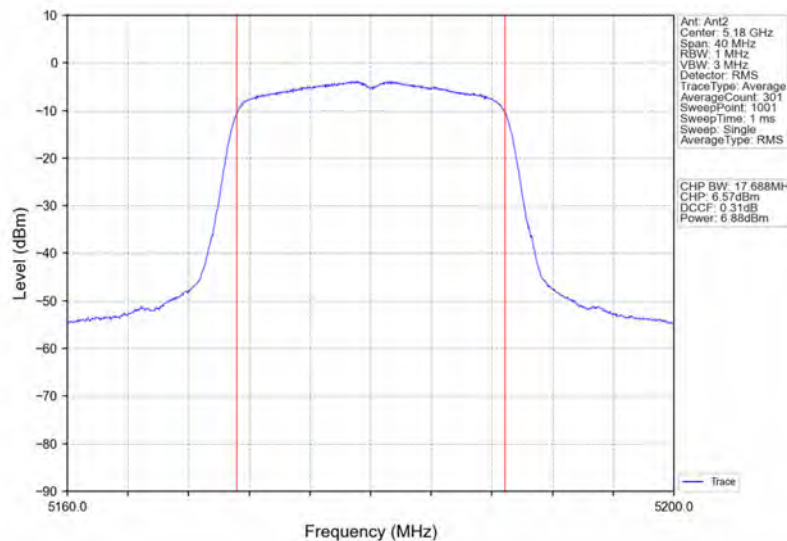
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802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



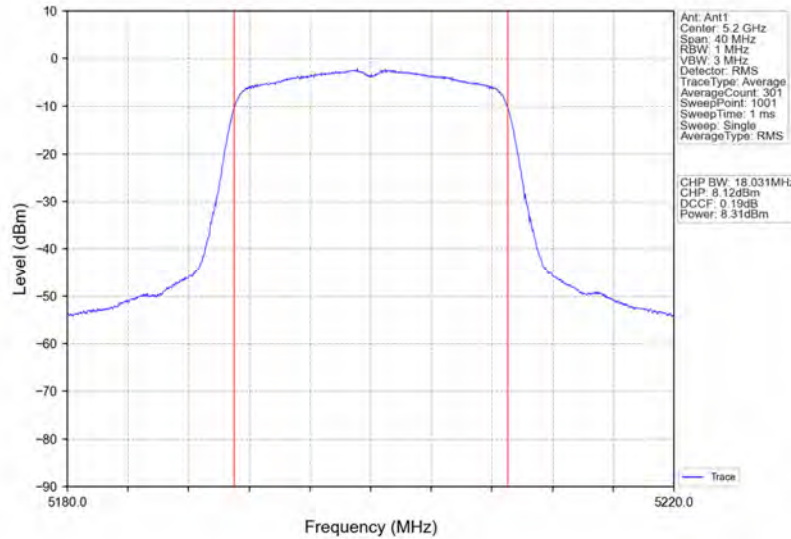
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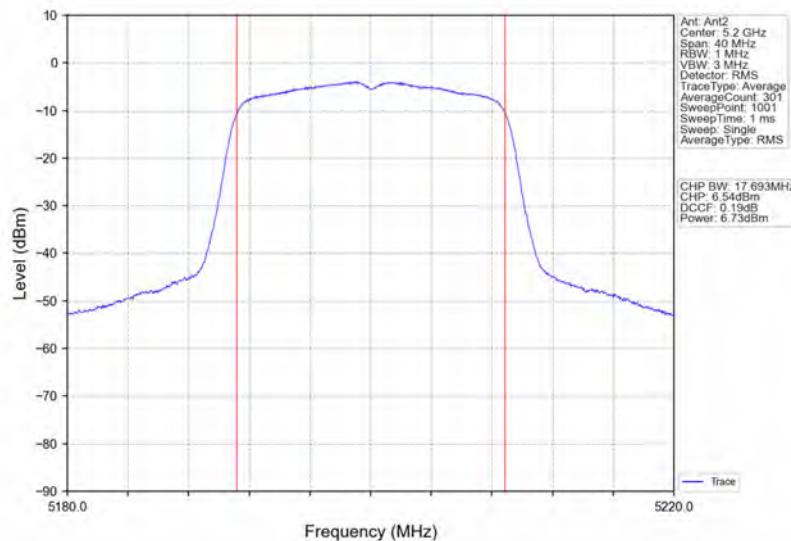
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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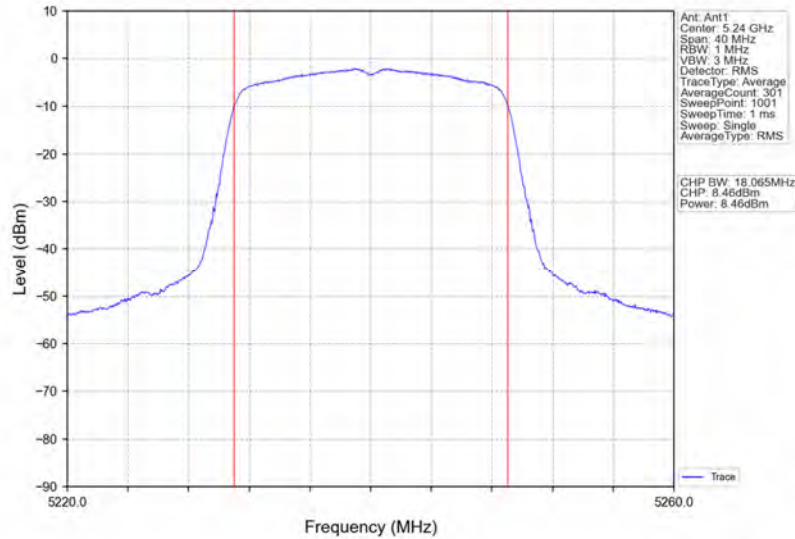
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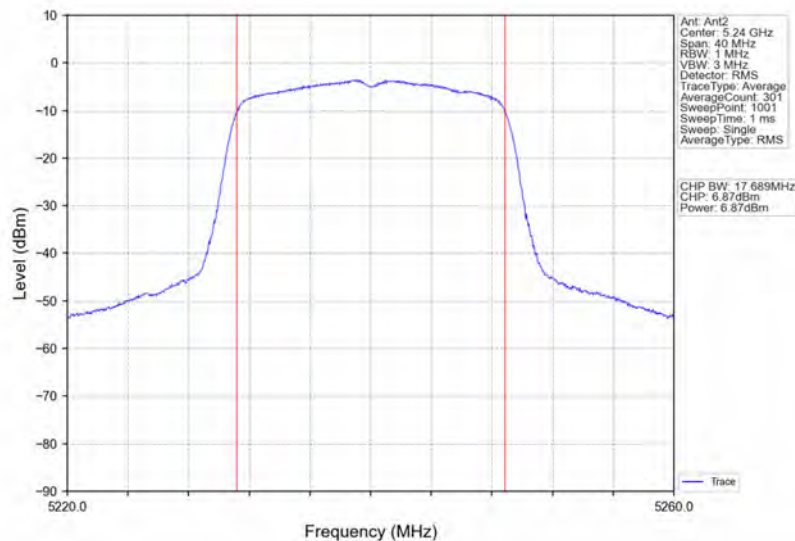
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



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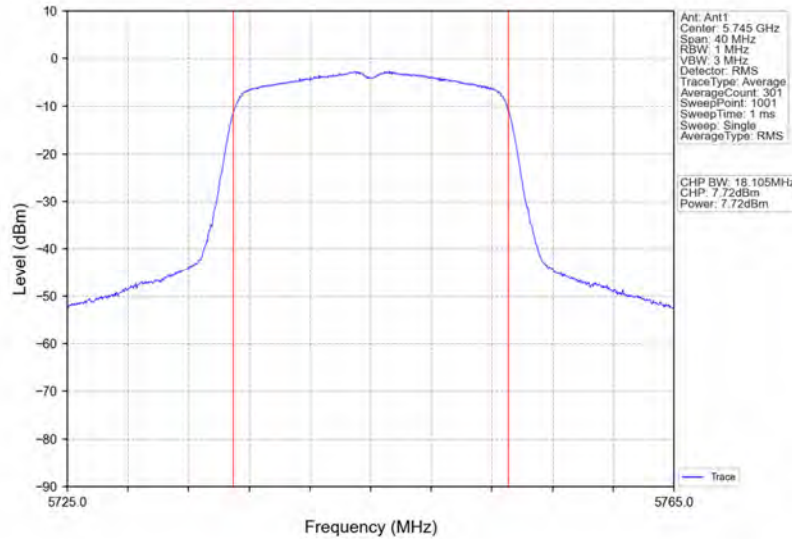
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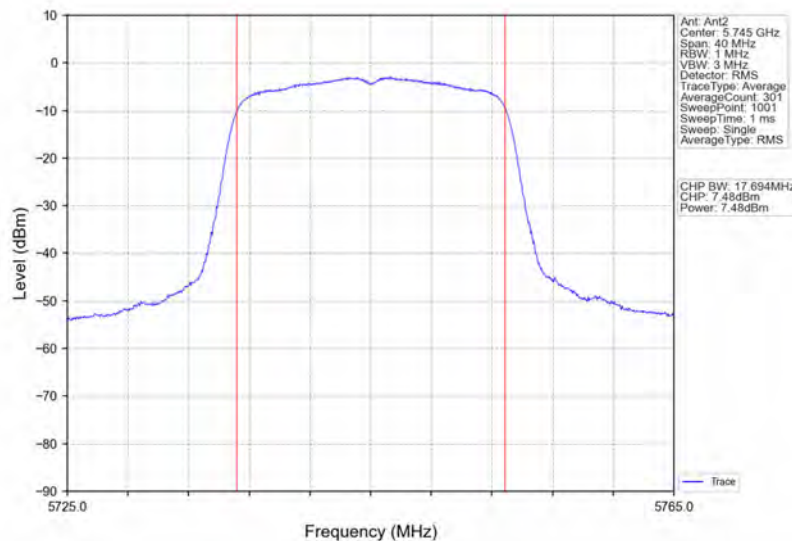
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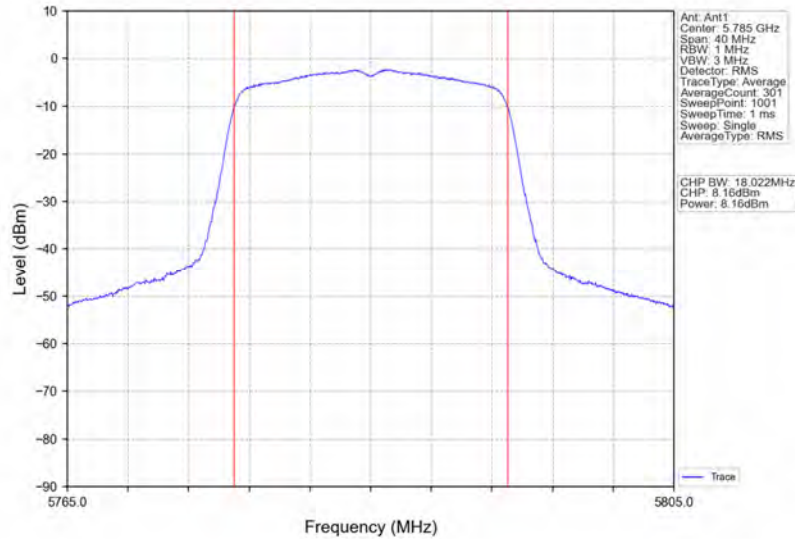
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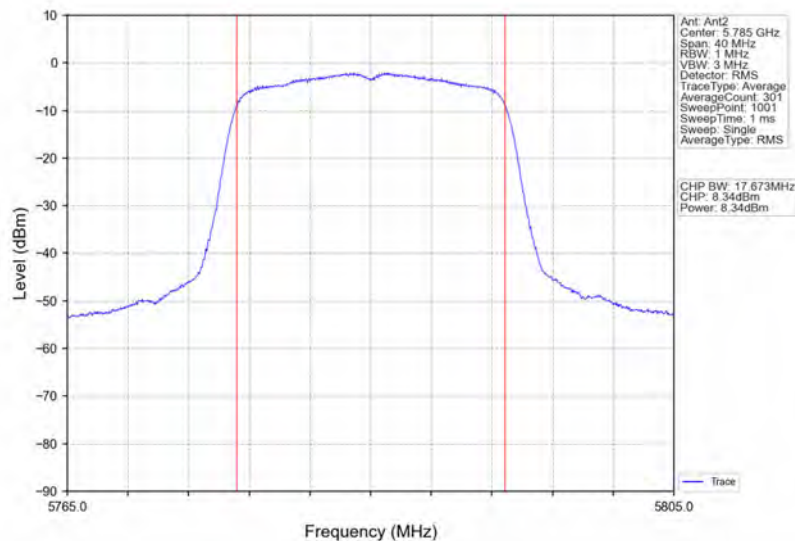
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



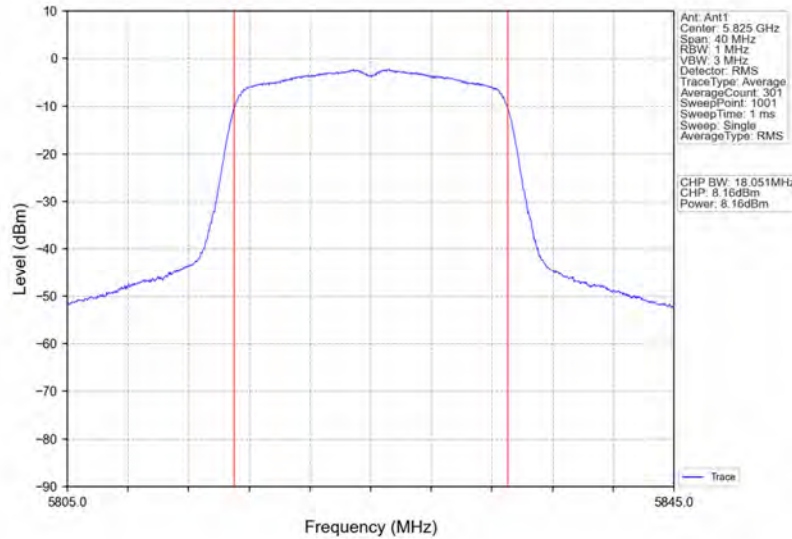
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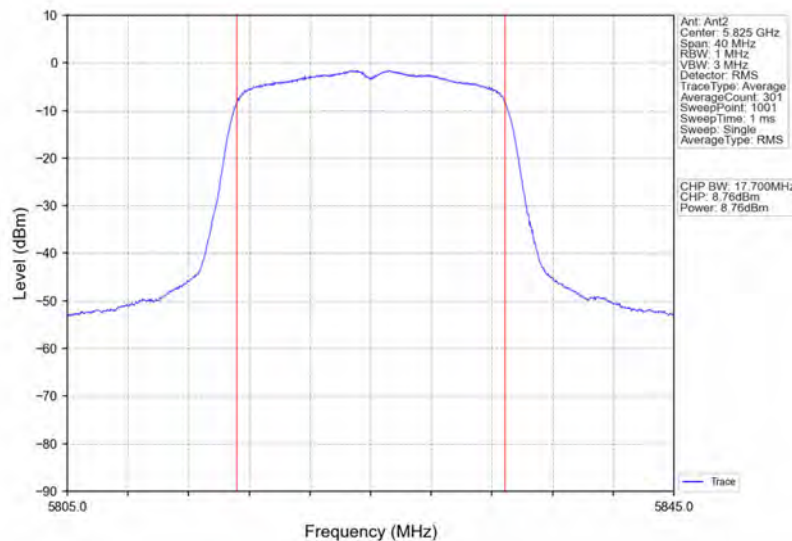
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



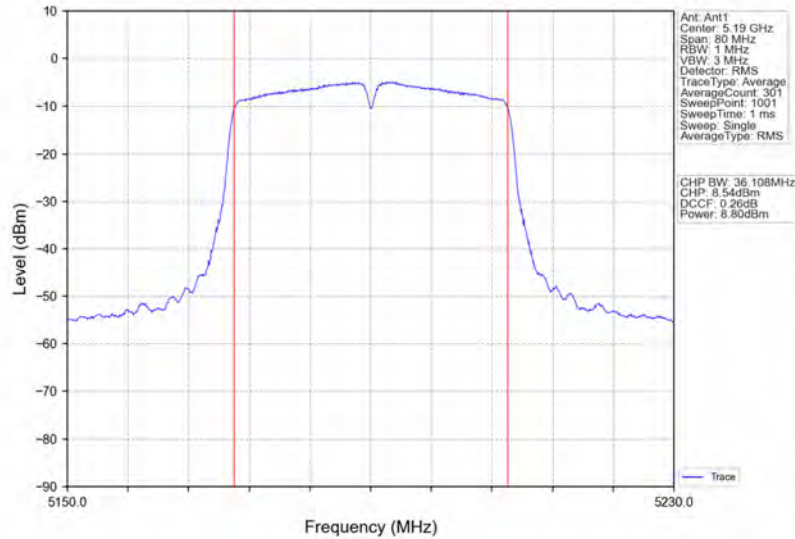
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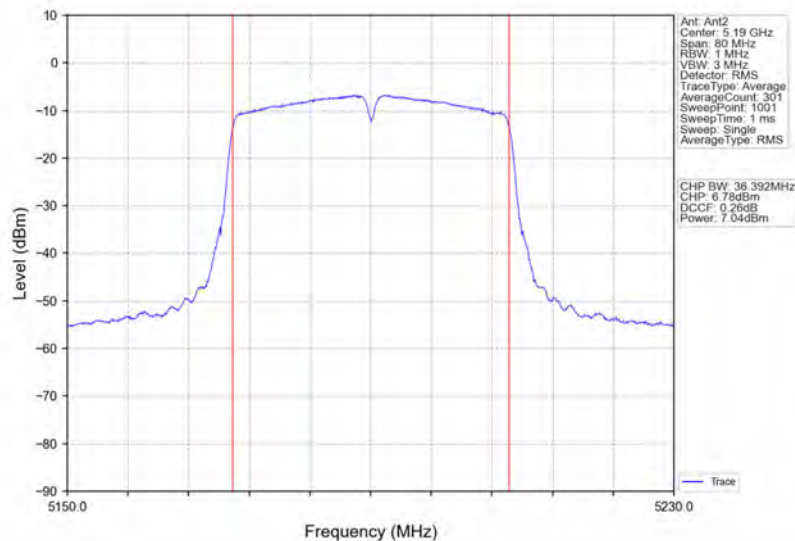
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



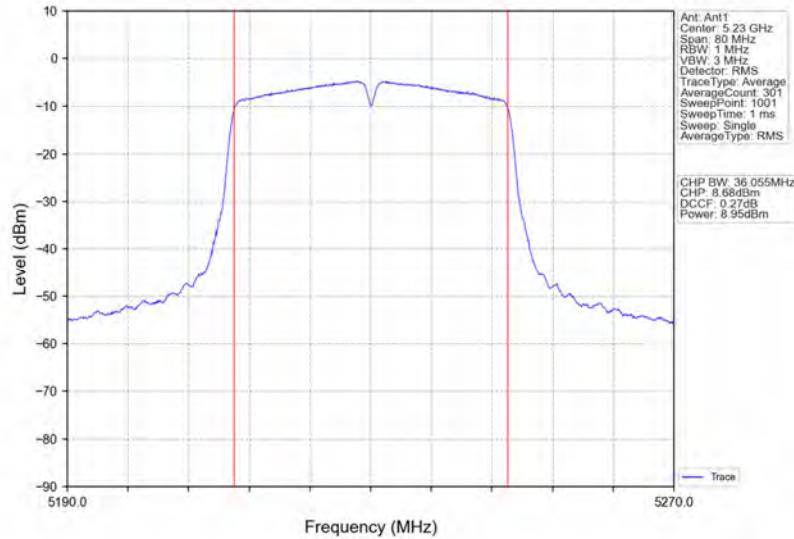
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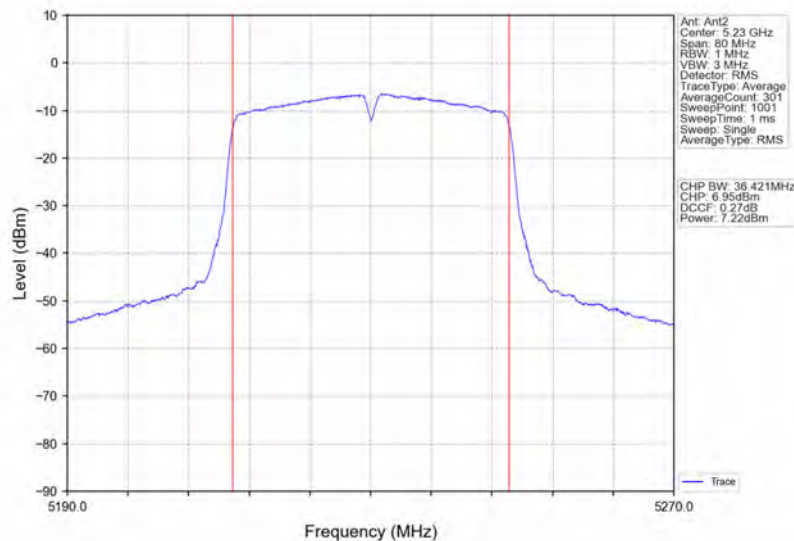
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



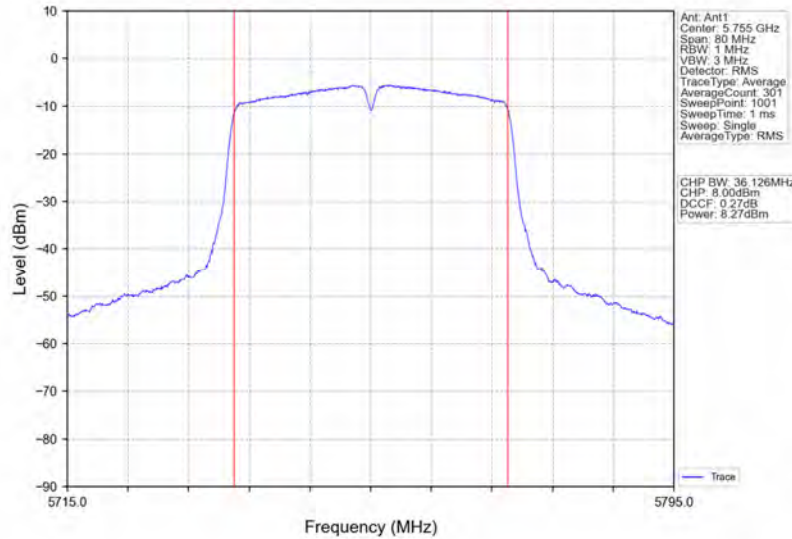
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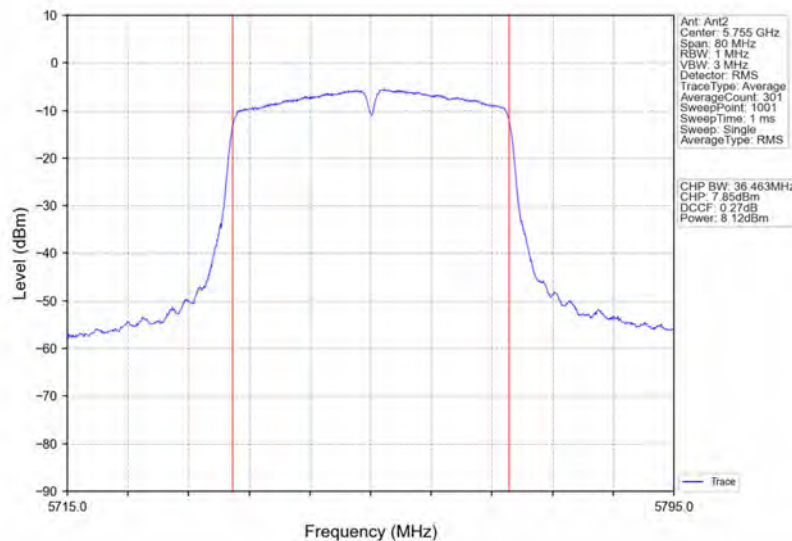
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



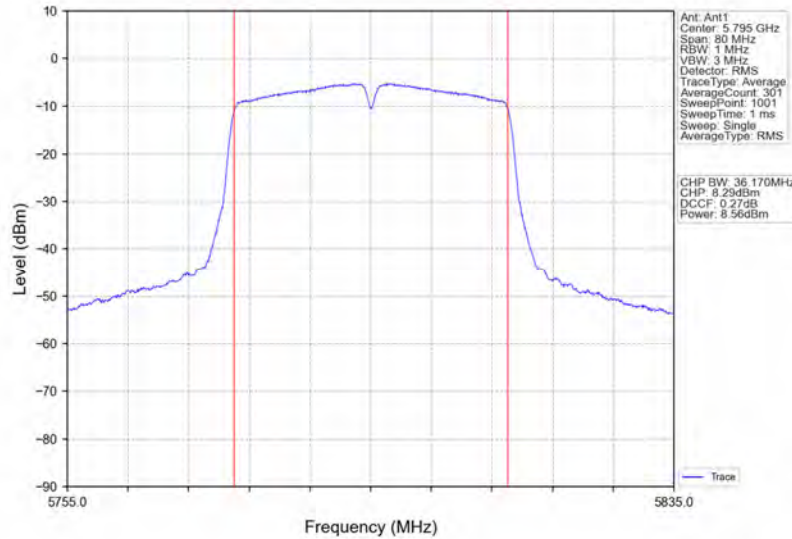
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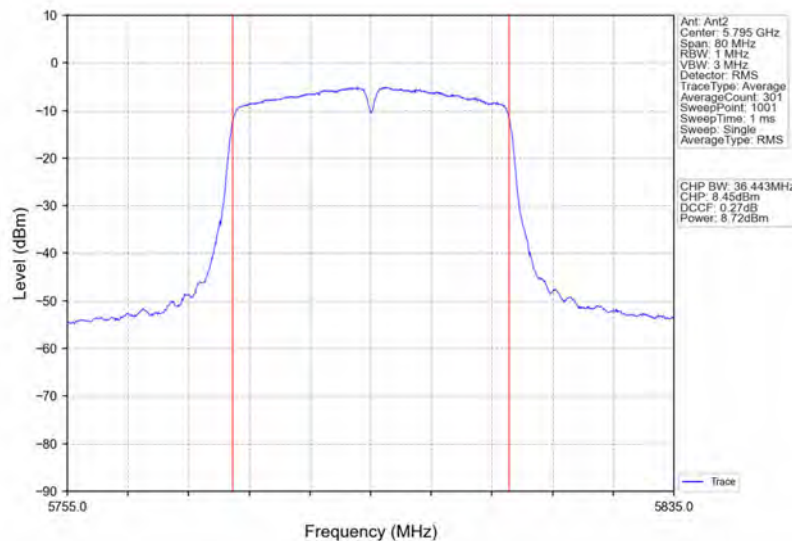
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



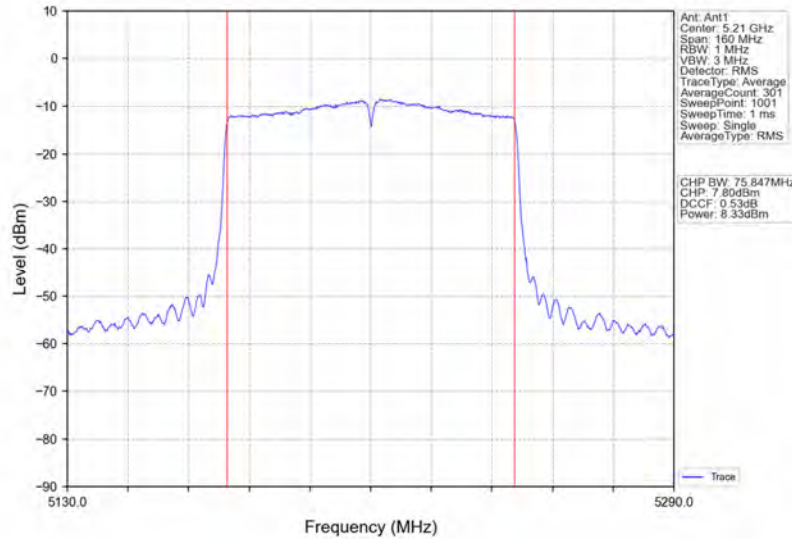
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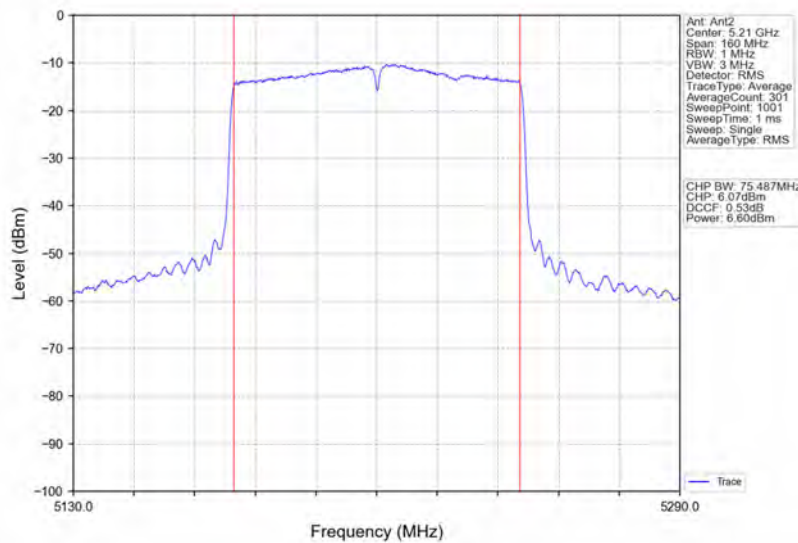
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



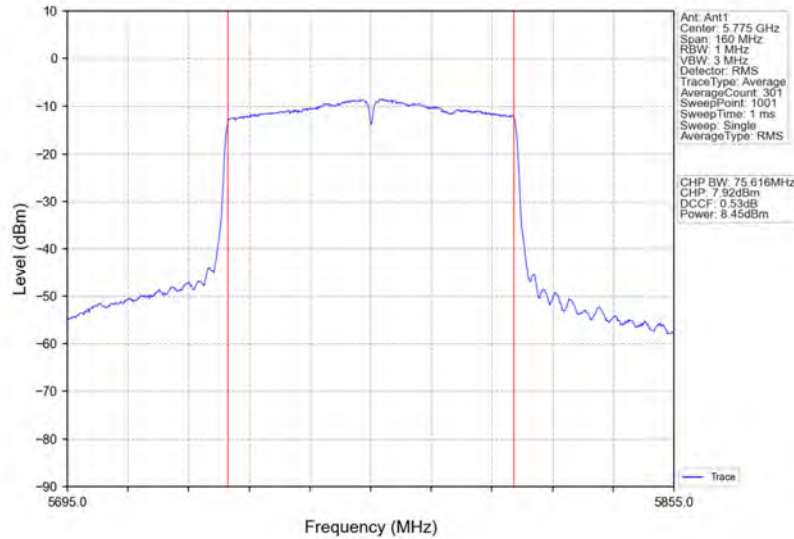
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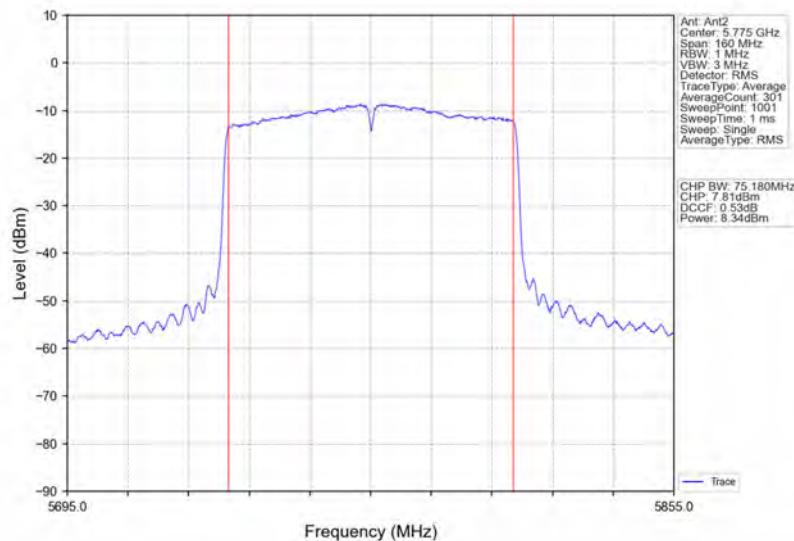
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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4. Maximum Power Spectral Density

4.1 PSD For FCC

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	0.13	0.09	/	<=11	Pass
		5200	-0.04	0.12	/	<=11	Pass
		5240	0.05	0.39	/	<=11	Pass
802.11n (HT20)	MIMO	5180	-1.73	-3.66	0.30	<=11	Pass
		5200	-2.14	-3.62	0.02	<=11	Pass
		5240	-1.74	-3.18	0.45	<=11	Pass
802.11n (HT40)	MIMO	5190	-4.93	-6.68	-2.80	<=11	Pass
		5230	-4.83	-6.25	-2.48	<=11	Pass
802.11ac (VHT20)	MIMO	5180	-1.64	-3.55	0.52	<=11	Pass
		5200	-2.09	-3.73	0.11	<=11	Pass
		5240	-1.95	-3.38	0.32	<=11	Pass
802.11ac (VHT40)	MIMO	5190	-4.52	-6.42	-2.39	<=11	Pass
		5230	-4.28	-6.07	-2.27	<=11	Pass
802.11ac (VHT80)	MIMO	5210	-8.08	-9.88	-5.93	<=11	Pass

Note1: Antenna Gain: Ant1: 0.29dBi; Ant2: 0.12dBi;

4.2 E.I.R.PSD For IC

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum E.I.R.PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	0.42	0.21	/	<=10	Pass
		5200	0.25	0.24	/	<=10	Pass
		5240	0.34	0.51	/	<=10	Pass
802.11n (HT20)	MIMO	5180	-1.44	-3.54	0.65	<=10	Pass
		5200	-1.85	-3.50	0.41	<=10	Pass
		5240	-1.45	-3.06	0.83	<=10	Pass
802.11n (HT40)	MIMO	5190	-4.64	-6.56	-2.48	<=10	Pass
		5230	-4.54	-6.13	-2.25	<=10	Pass
802.11ac (VHT20)	MIMO	5180	-1.35	-3.43	0.74	<=10	Pass
		5200	-1.80	-3.61	0.40	<=10	Pass
		5240	-1.66	-3.26	0.62	<=10	Pass
802.11ac (VHT40)	MIMO	5190	-4.23	-6.30	-2.13	<=10	Pass
		5230	-3.99	-5.95	-1.85	<=10	Pass
802.11ac (VHT80)	MIMO	5210	-7.79	-9.76	-5.65	<=10	Pass

Note1: Antenna Gain: Ant1: 0.29dBi; Ant2: 0.12dBi;

Note: E.I.R.PSD = Measured PSD + Antenna Gain



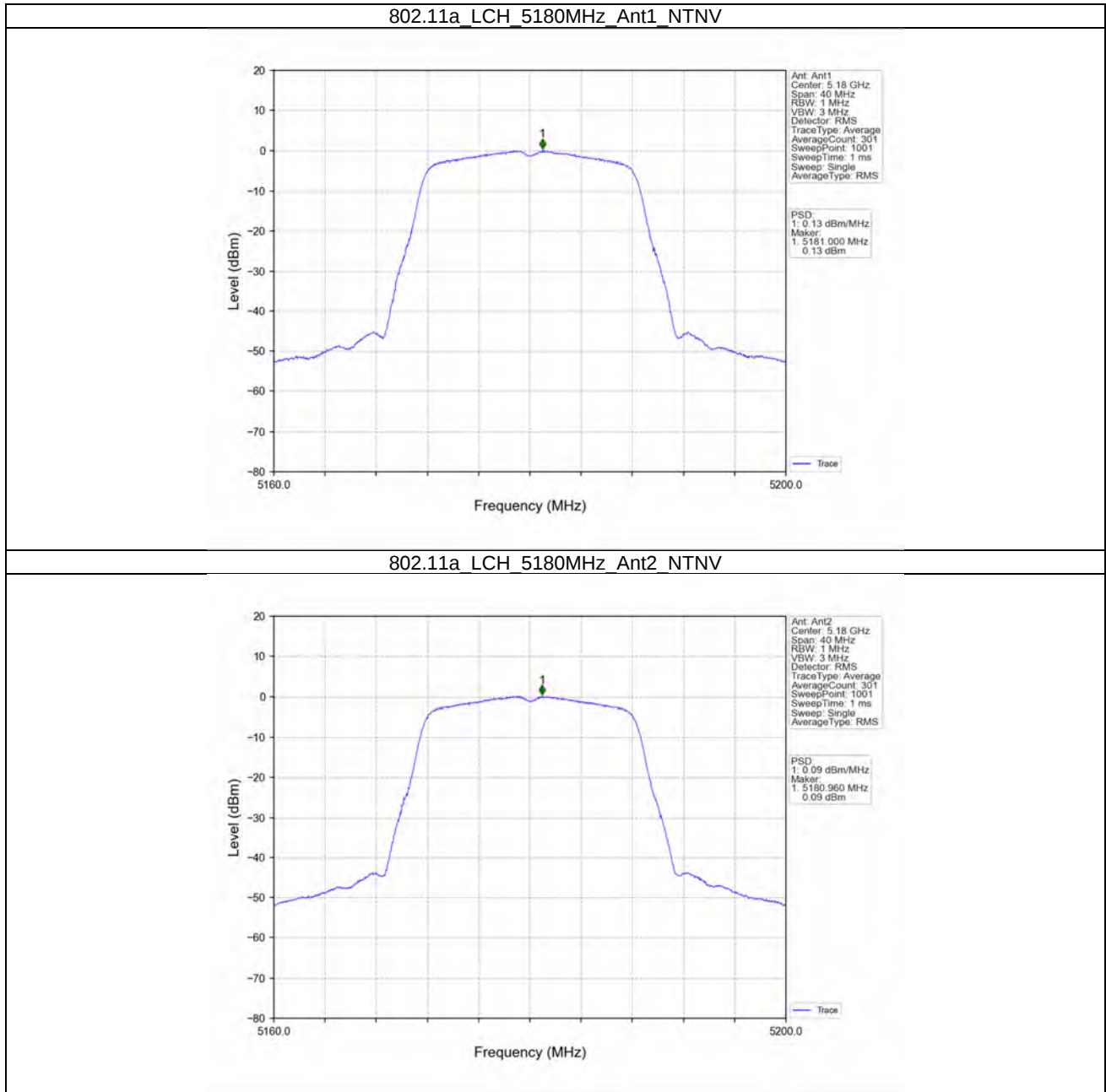
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4.2.2 Test Graph



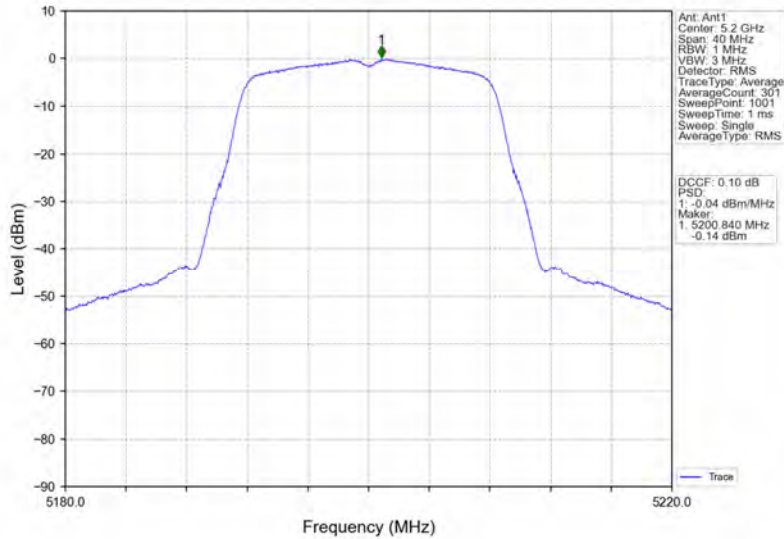
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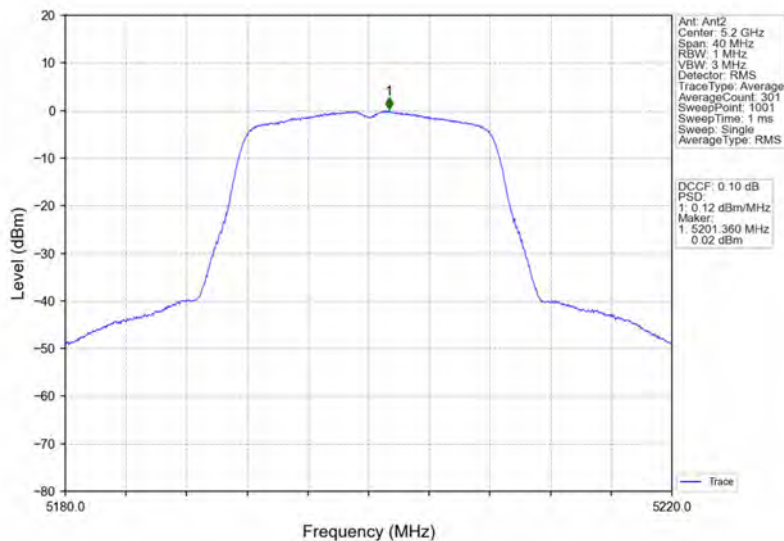
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802.11a_MCH_5200MHz_Ant2_NTNV



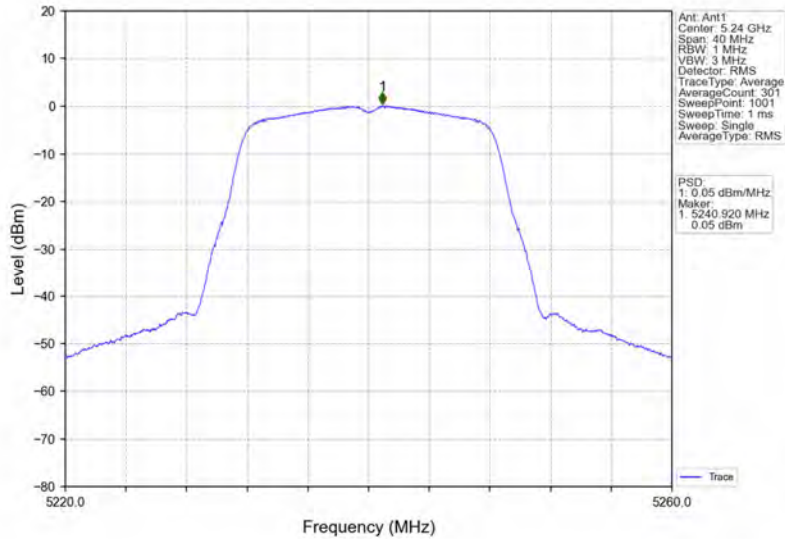
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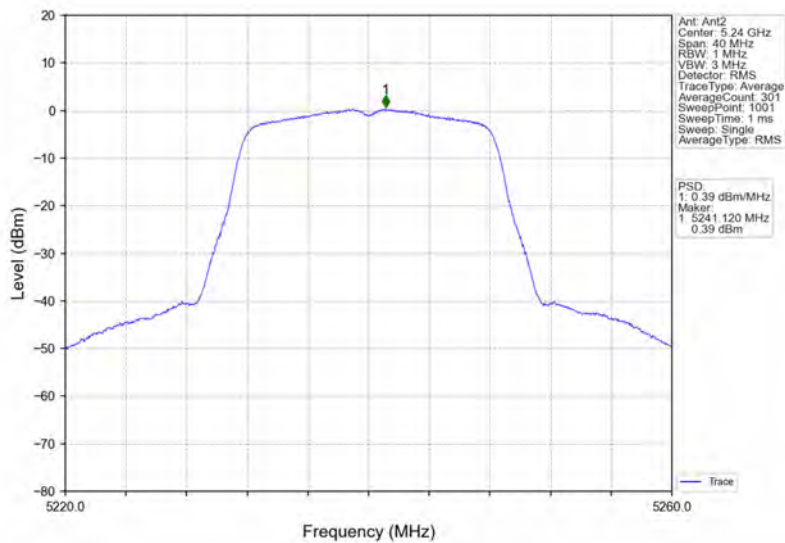
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV

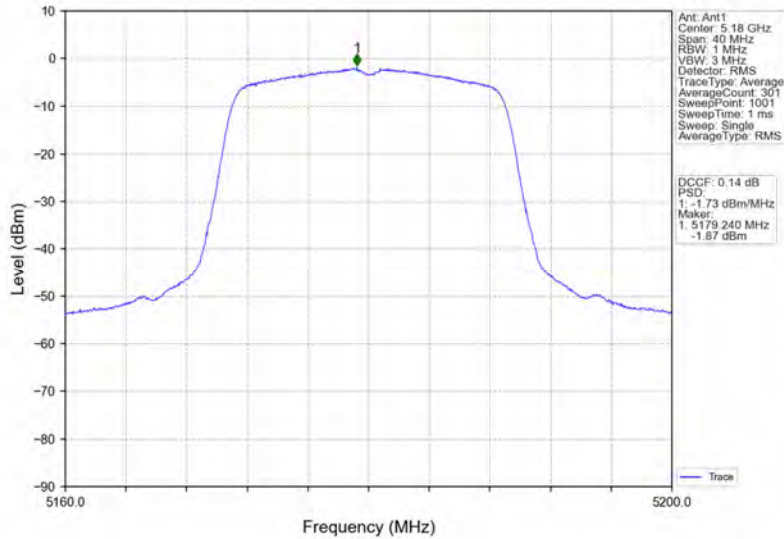


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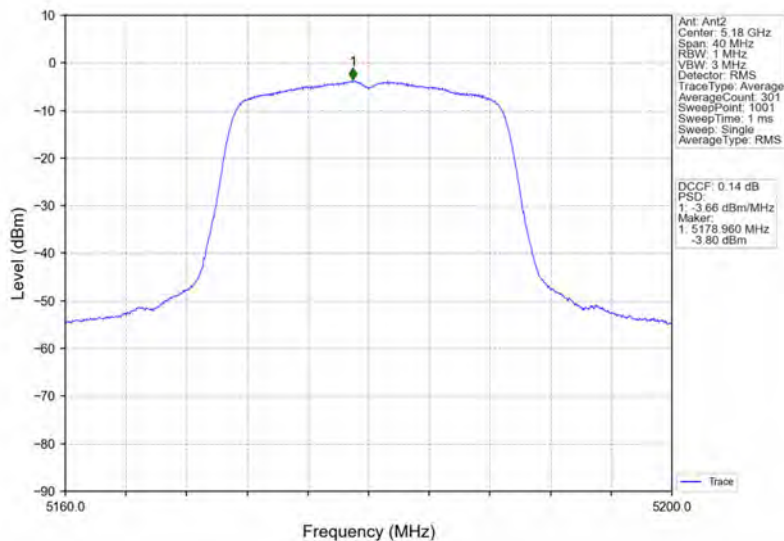
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



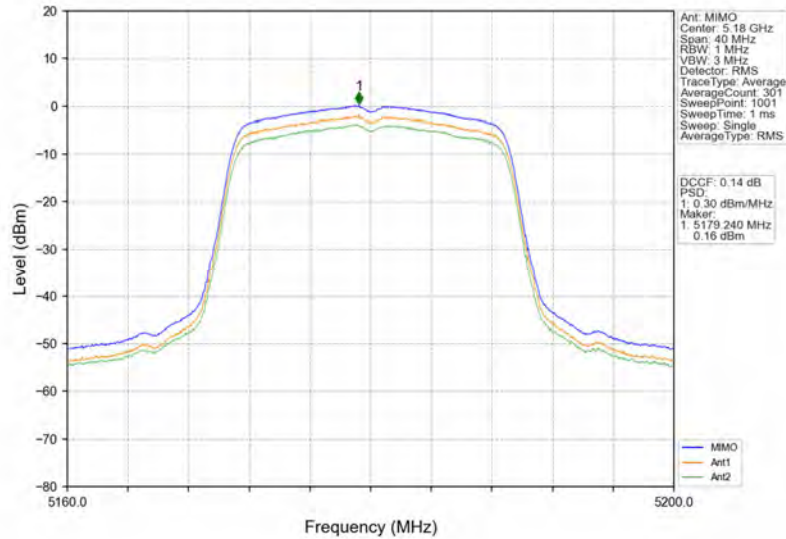
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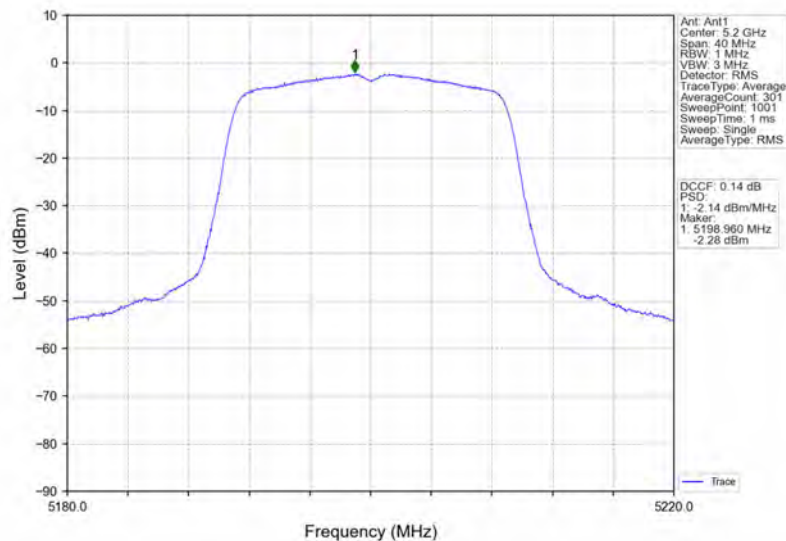
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802.11n(HT20)_LCH_5180MHz_MIMO_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



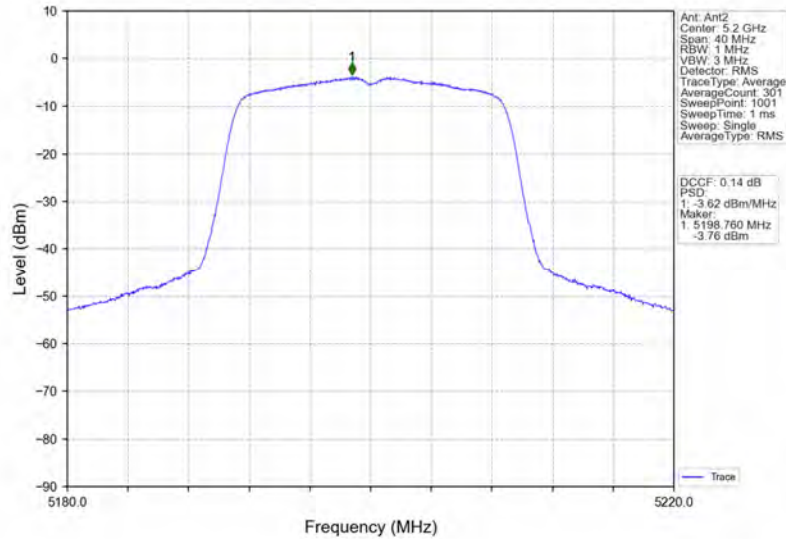
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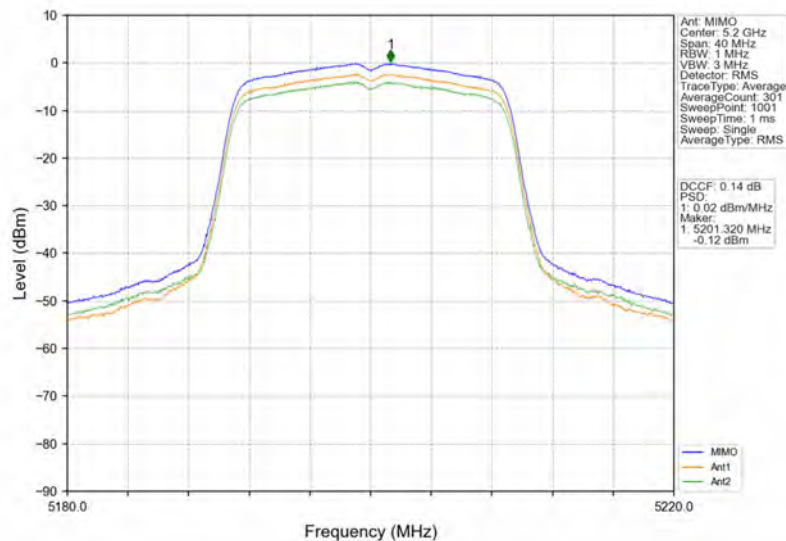
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802.11n(HT20)_MCH_5200MHz_MIMO_NTNV



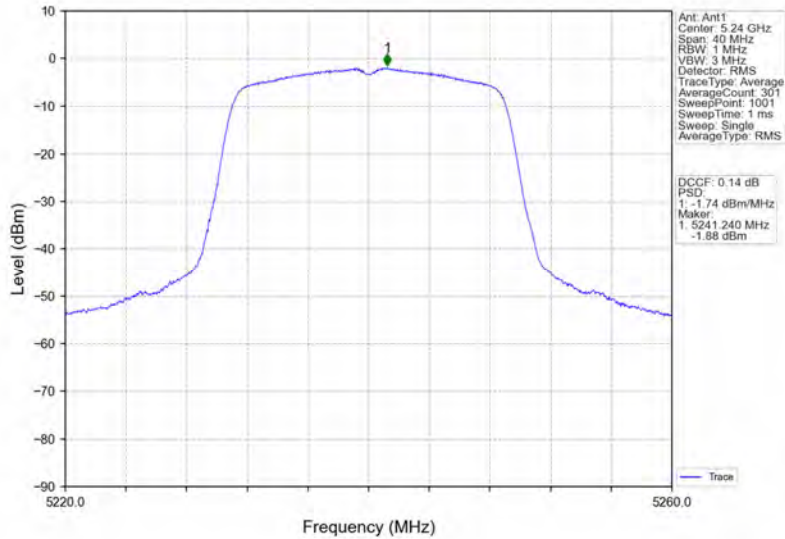
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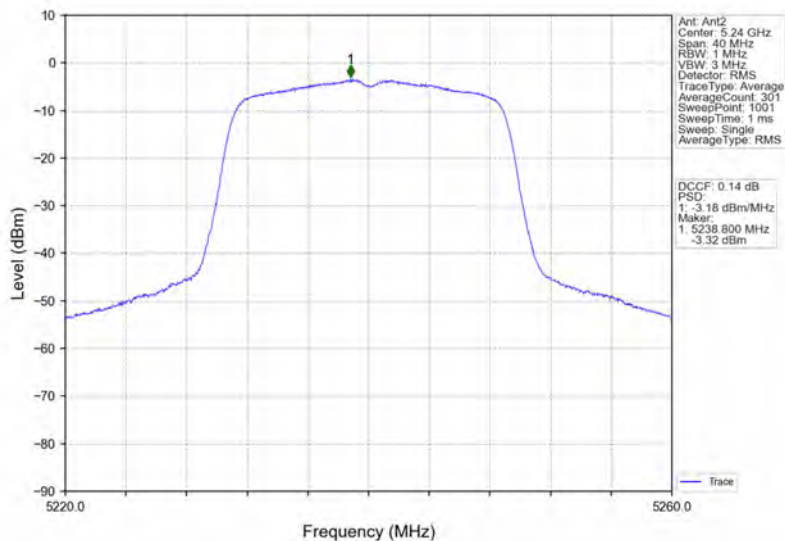
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



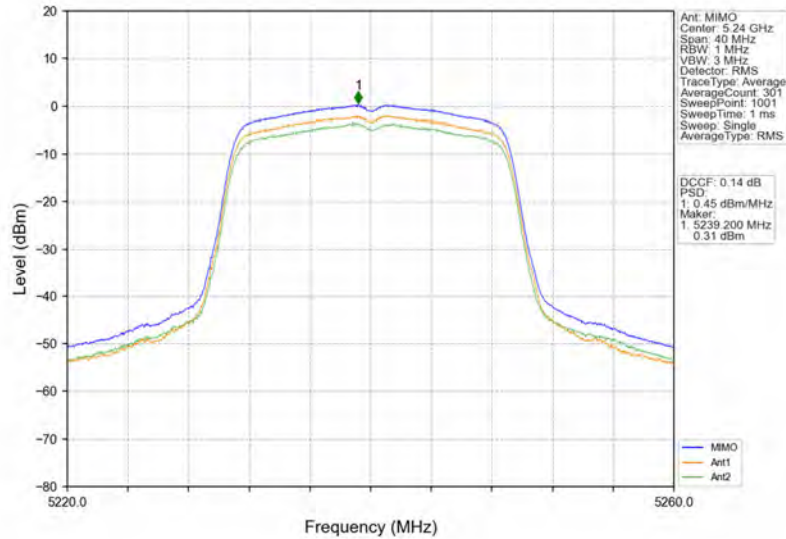
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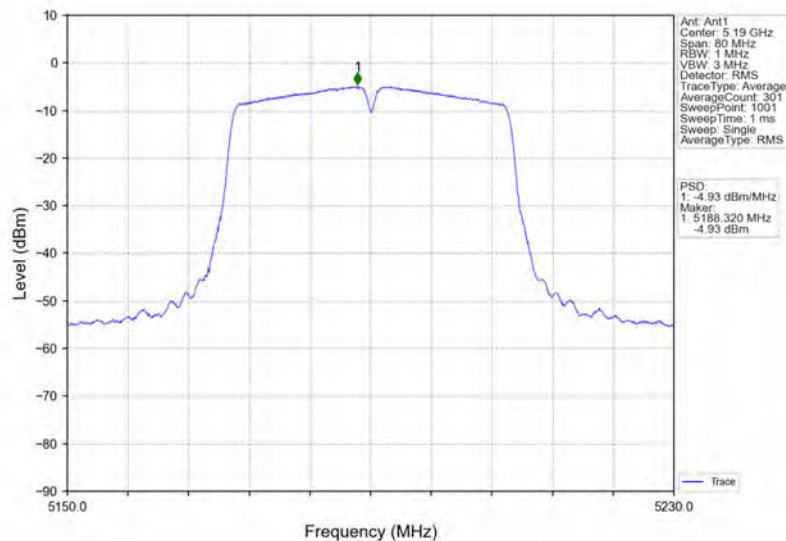
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802.11n(HT20)_HCH_5240MHz_MIMO_NTNV



802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

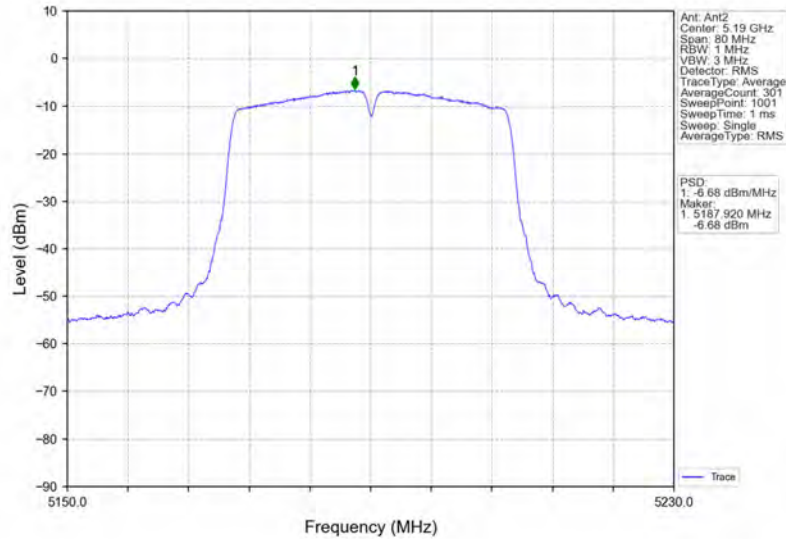


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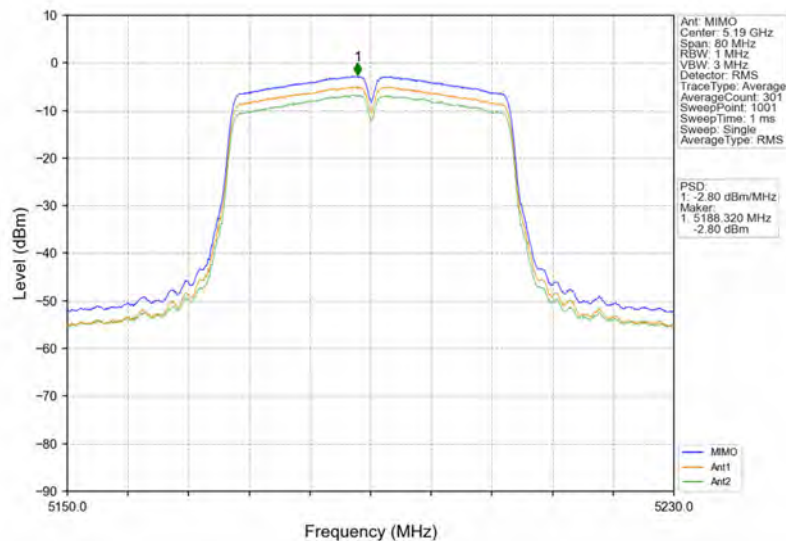
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802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



802.11n(HT40)_LCH_5190MHz_MIMO_NTNV



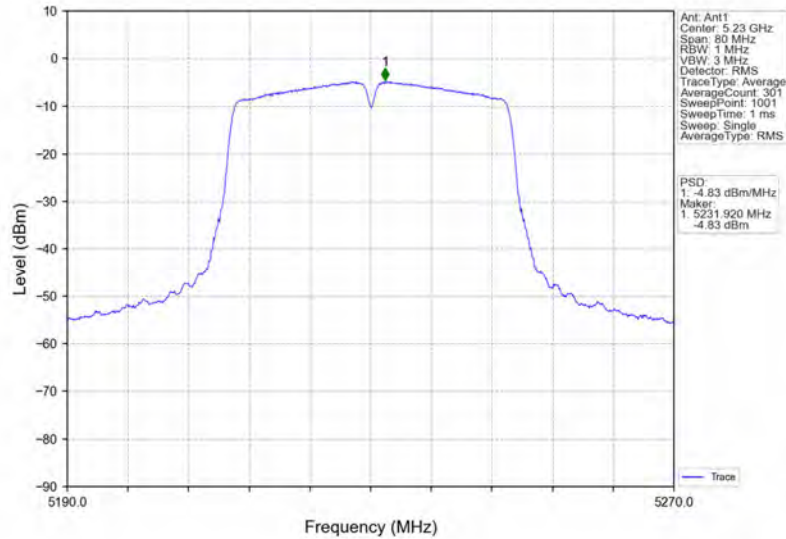
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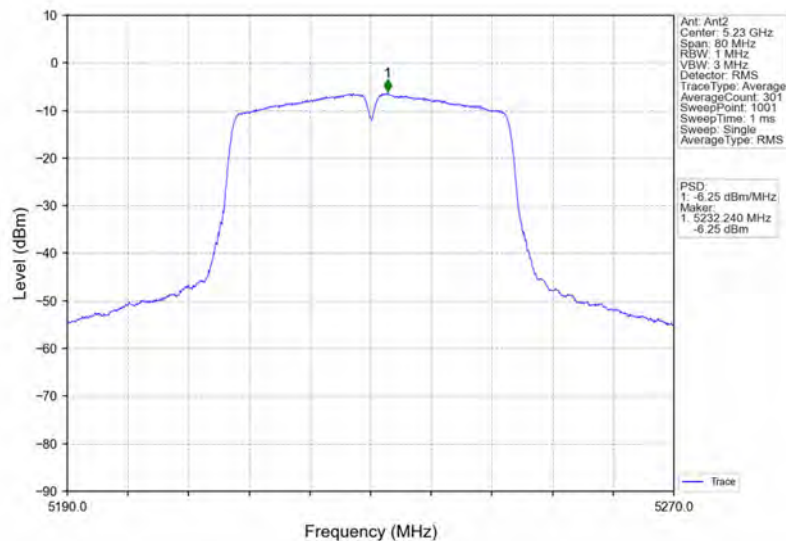
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802.11n(HT40)_HCH_5230MHz_Ant2_NTNV

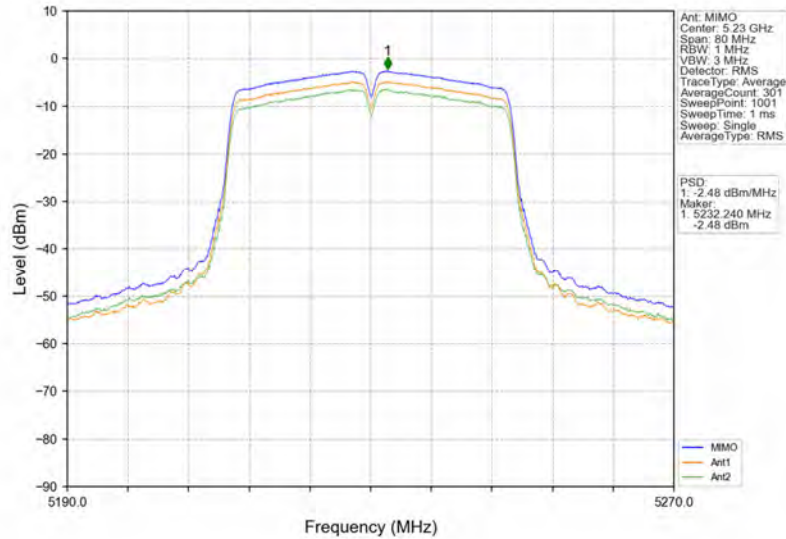


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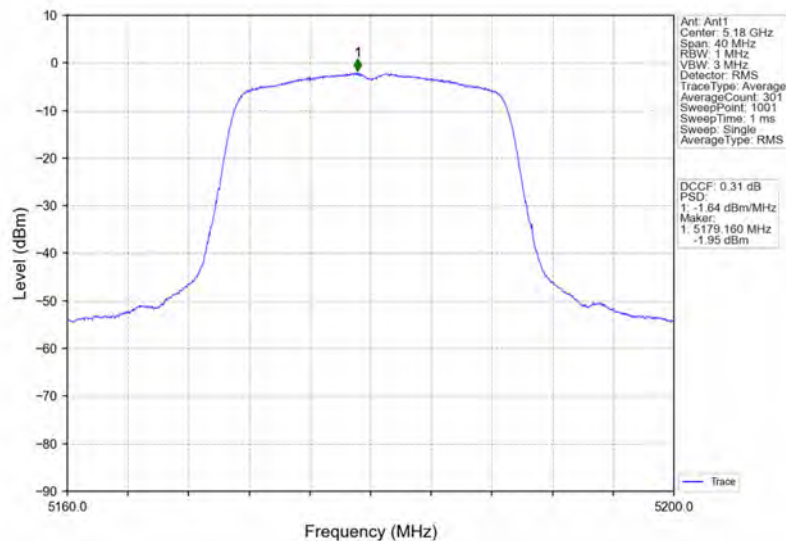
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

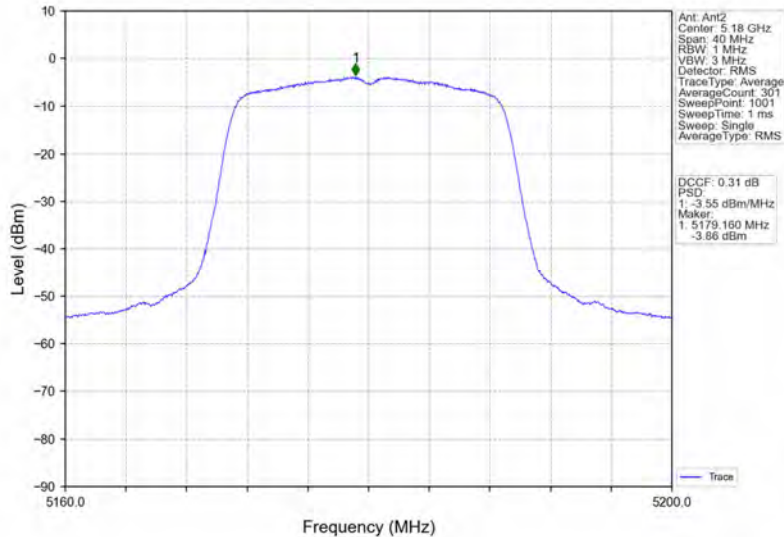


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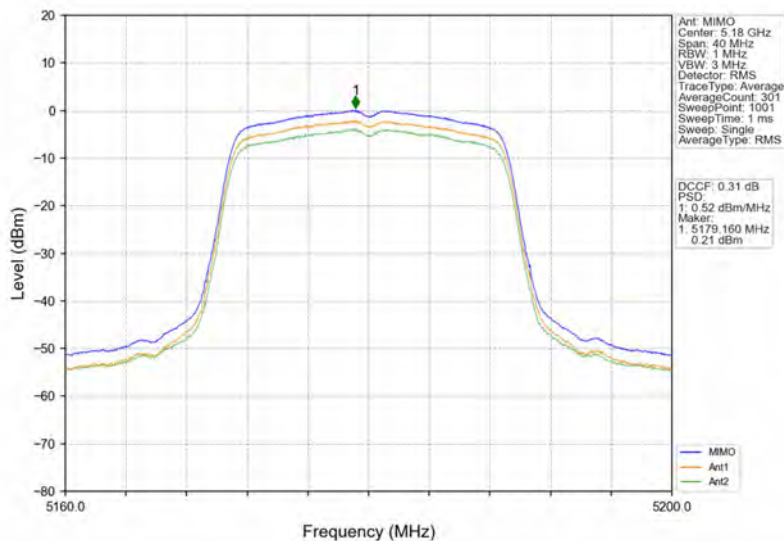
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802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



802.11ac(VHT20)_LCH_5180MHz_MIMO_NTNV



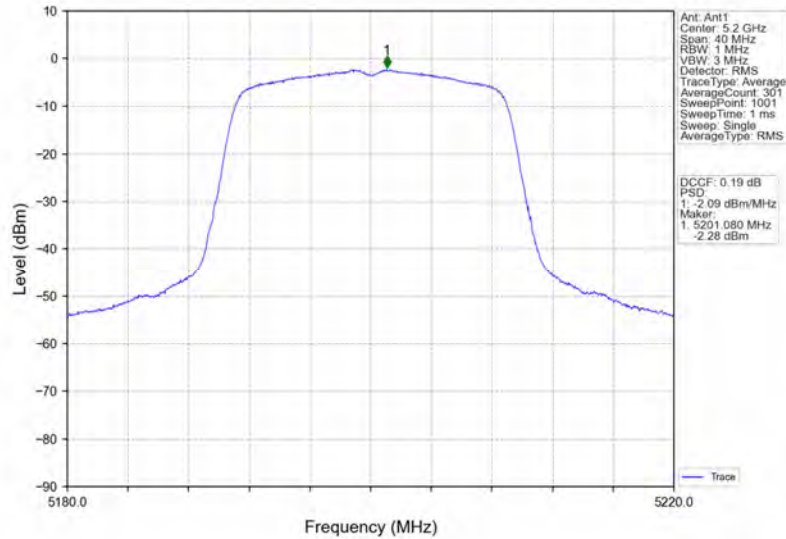
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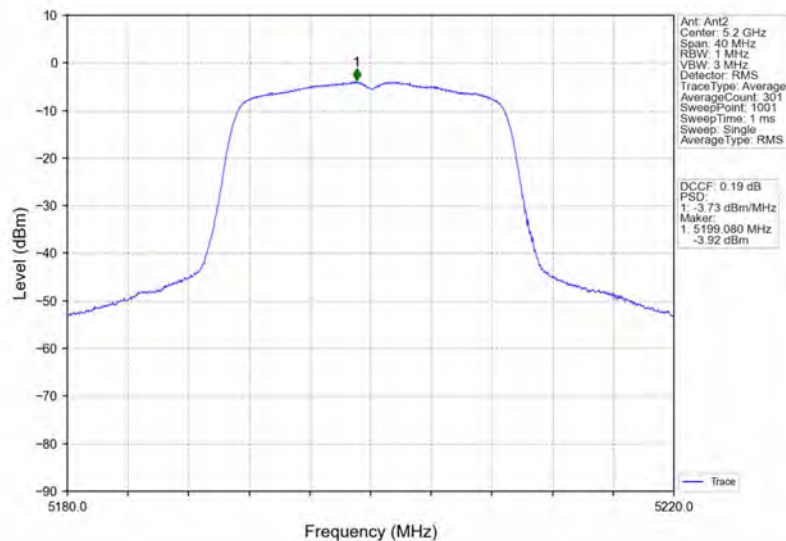
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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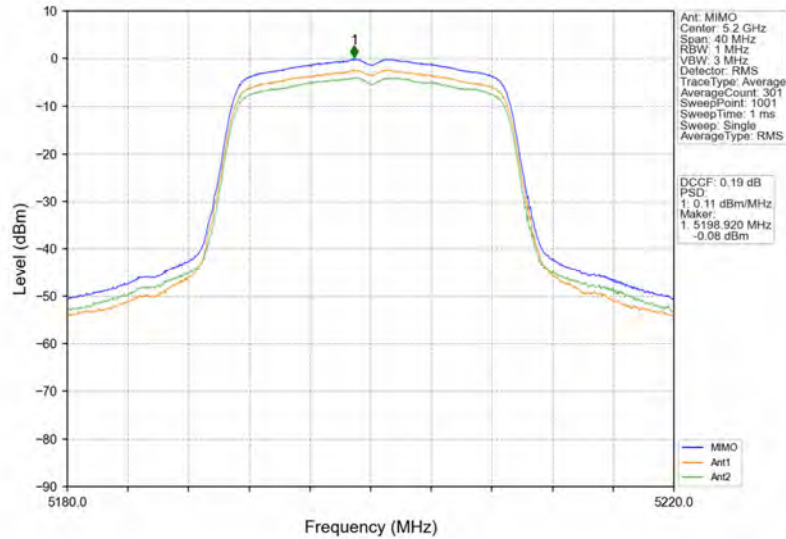
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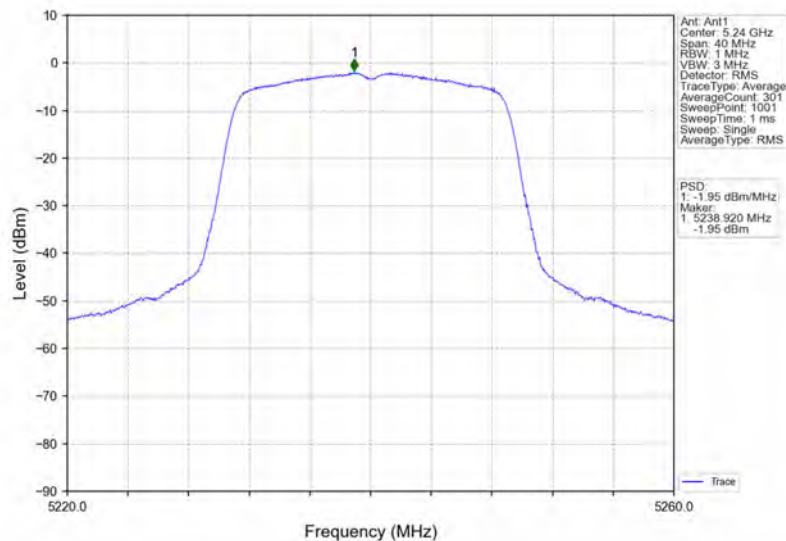
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



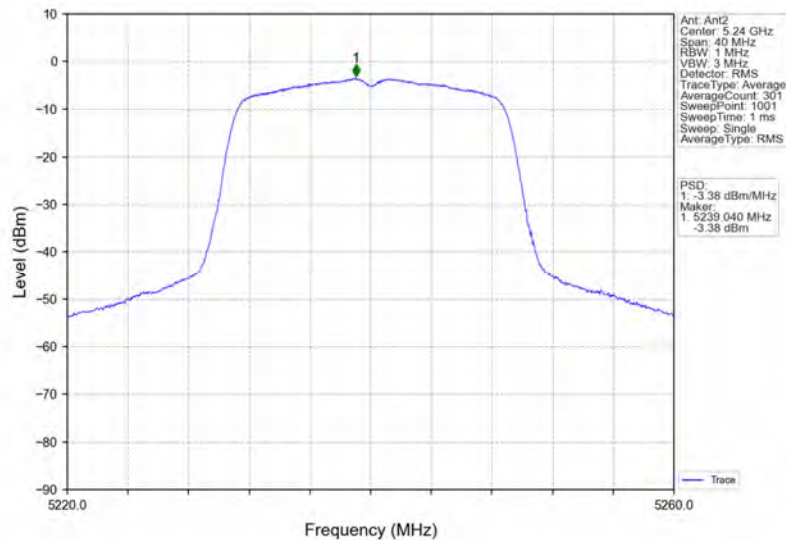
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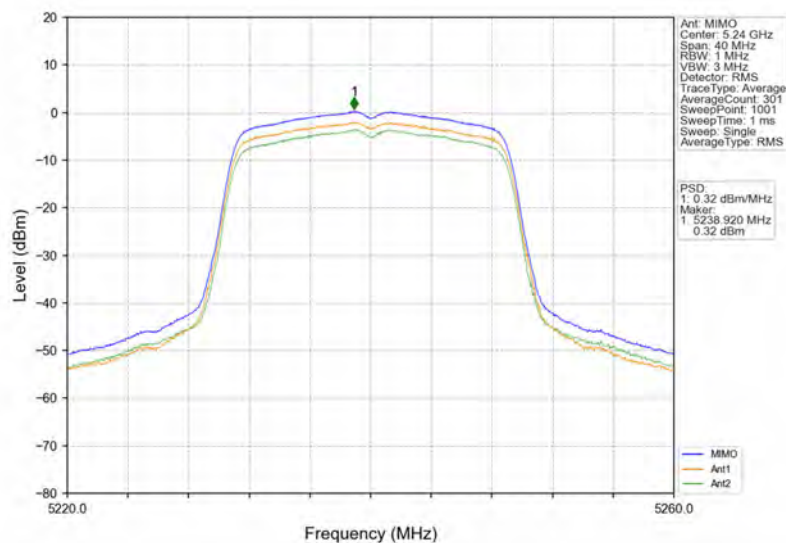
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802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



802.11ac(VHT20)_HCH_5240MHz_MIMO_NTNV

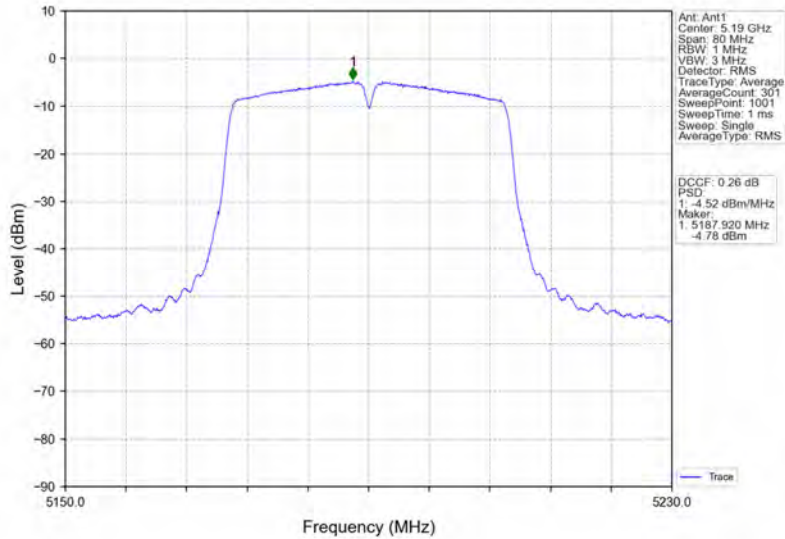


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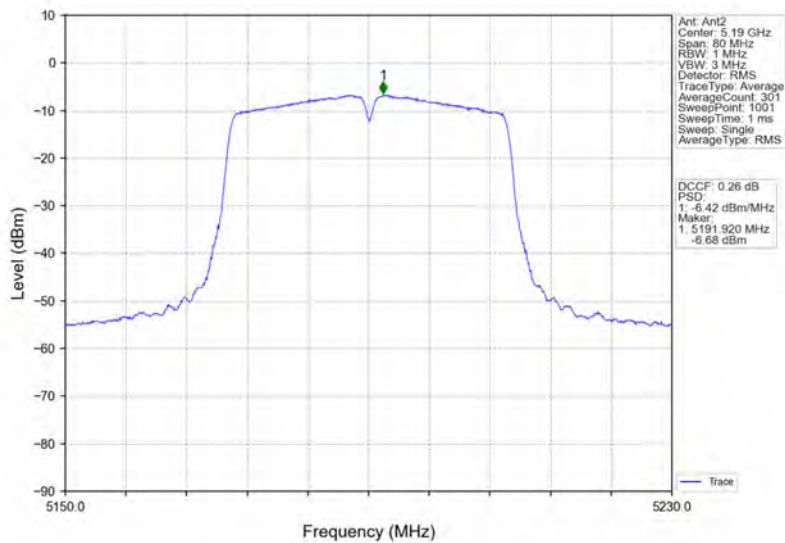
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



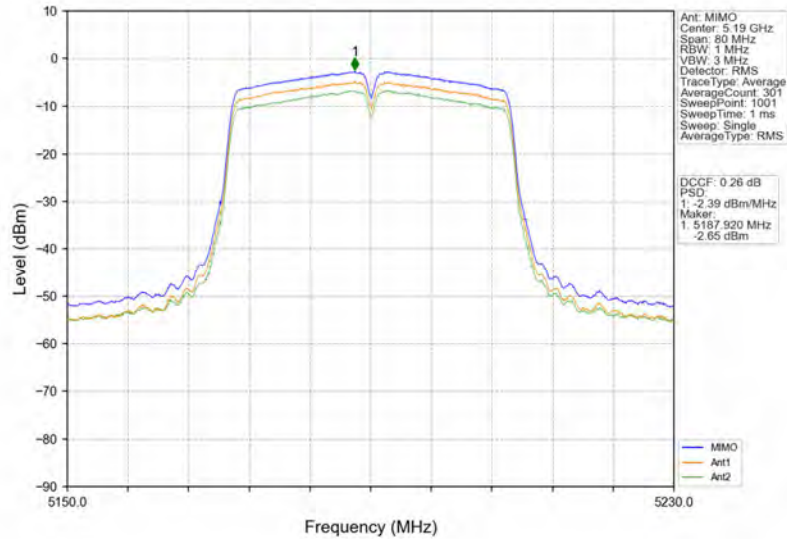
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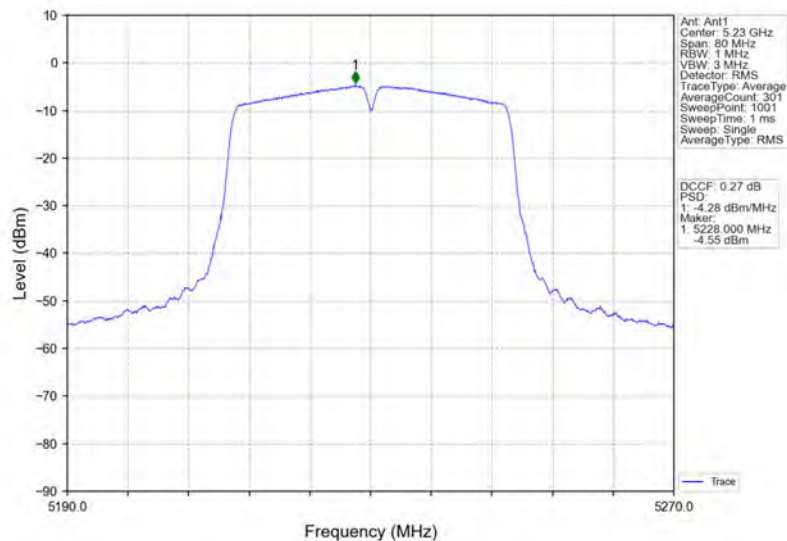
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



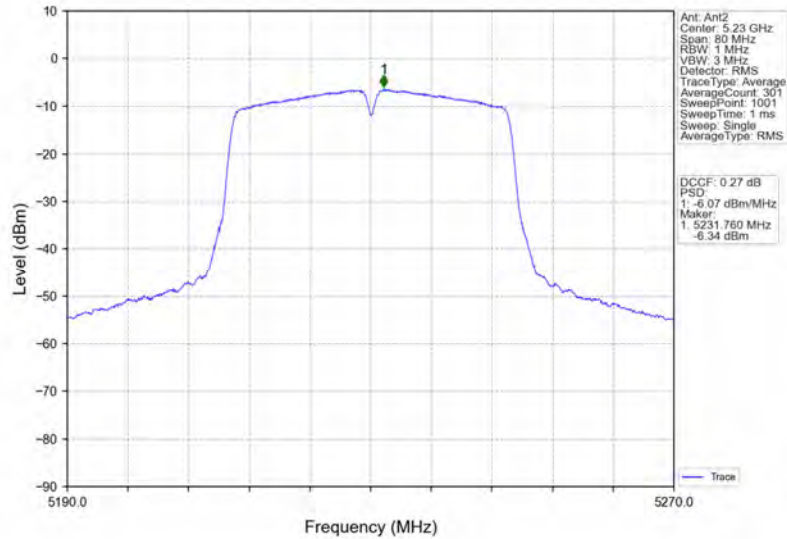
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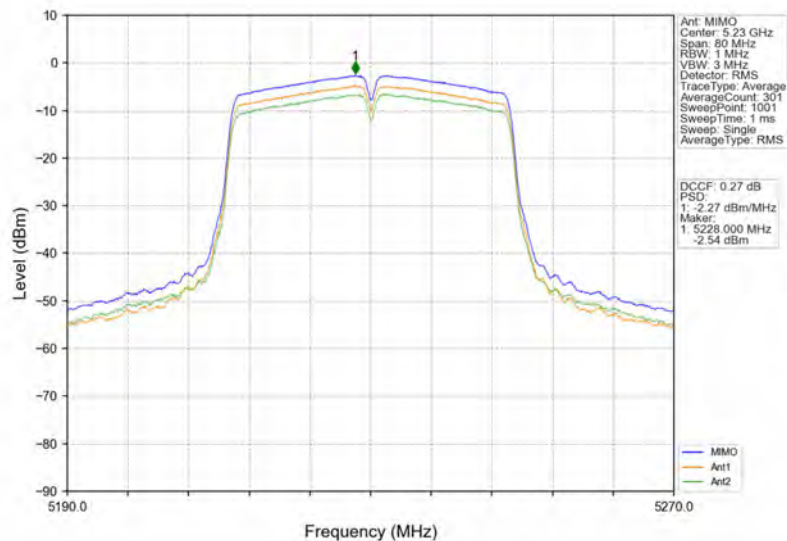
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802.11ac(VHT40)_HCH_5230MHz_MIMO_NTNV



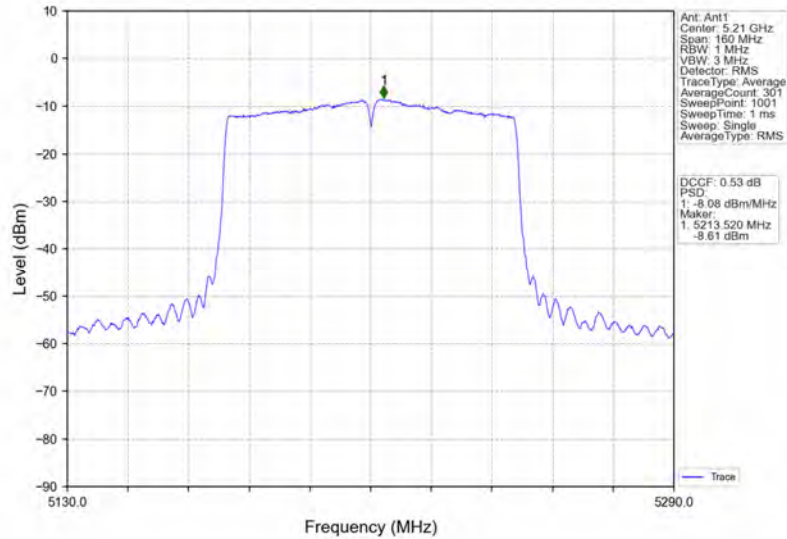
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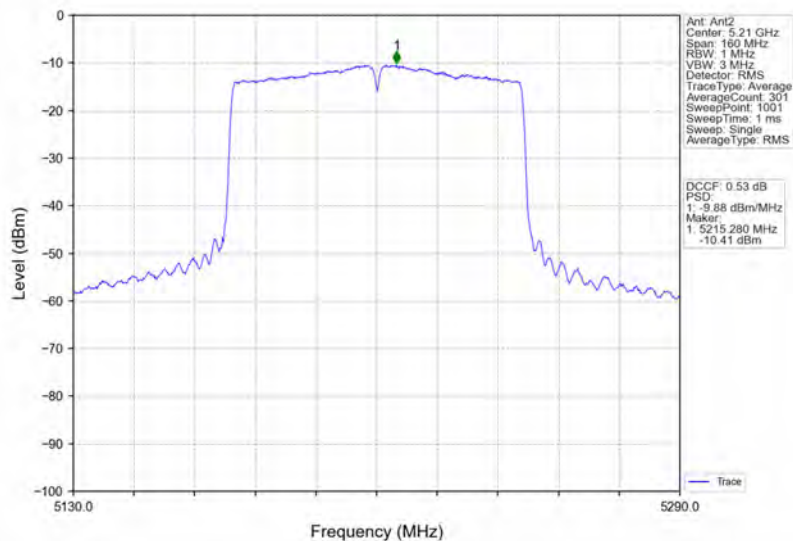
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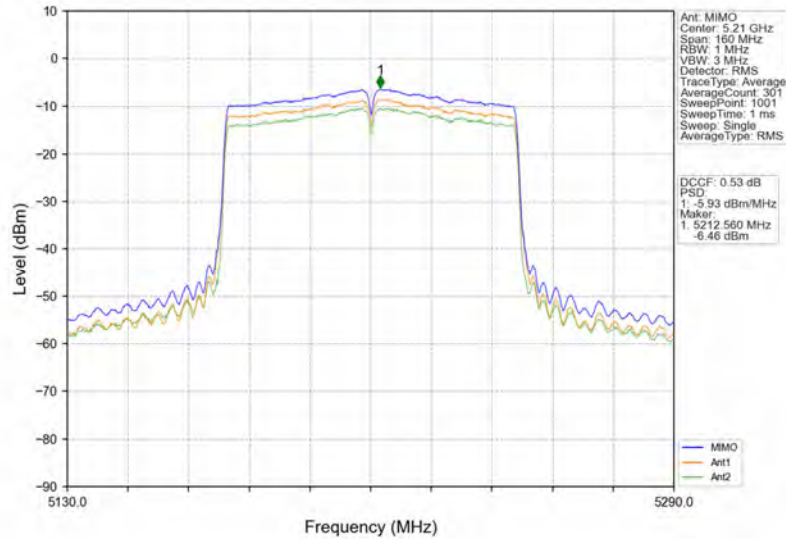
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802.11ac(VHT80)_MCH_5210MHz_MIMO_NTNV



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4.3 PSD-Band3

4.3.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5745	-2.49	-2.57	/	<=30	Pass
		5785	-1.66	-1.76	/	<=30	Pass
		5825	-1.82	-1.50	/	<=30	Pass
802.11n (HT20)	MIMO	5745	-5.02	-5.43	-2.35	<=30	Pass
		5785	-4.86	-4.22	-1.66	<=30	Pass
		5825	-4.86	-4.25	-1.69	<=30	Pass
802.11n (HT40)	MIMO	5755	-8.50	-8.61	-5.66	<=30	Pass
		5795	-8.23	-7.68	-4.94	<=30	Pass
802.11ac (VHT20)	MIMO	5745	-5.50	-5.46	-2.53	<=30	Pass
		5785	-5.01	-4.80	-1.90	<=30	Pass
		5825	-5.09	-4.31	-1.70	<=30	Pass
802.11ac (VHT40)	MIMO	5755	-7.98	-8.15	-5.23	<=30	Pass
		5795	-7.76	-7.71	-4.75	<=30	Pass
802.11ac (VHT80)	MIMO	5775	-10.63	-10.70	-7.74	<=30	Pass

Note1: Antenna Gain: Ant1: -1.16dBi; Ant2: 0.99dBi;
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)

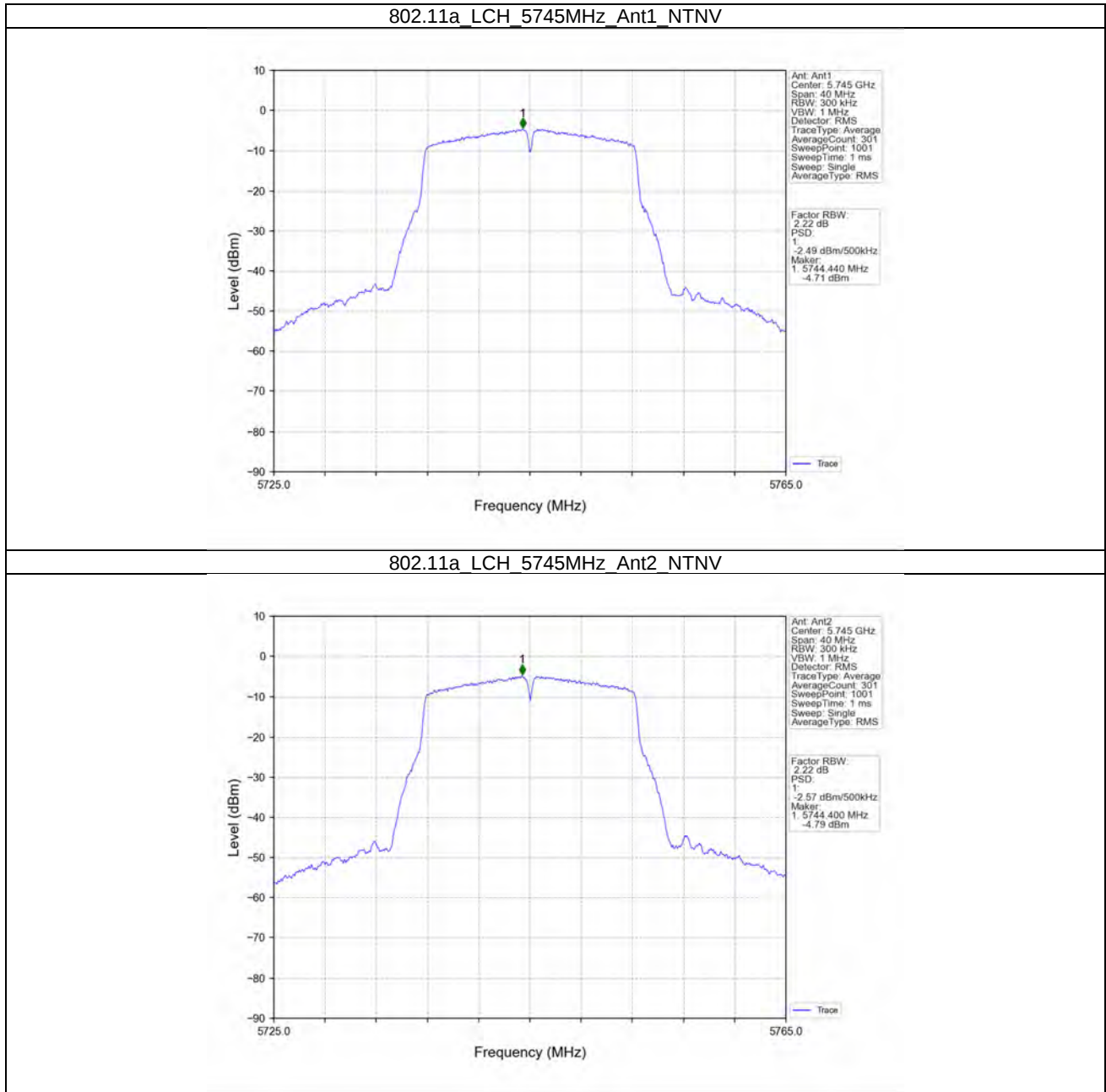


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4.3.2 Test Graph



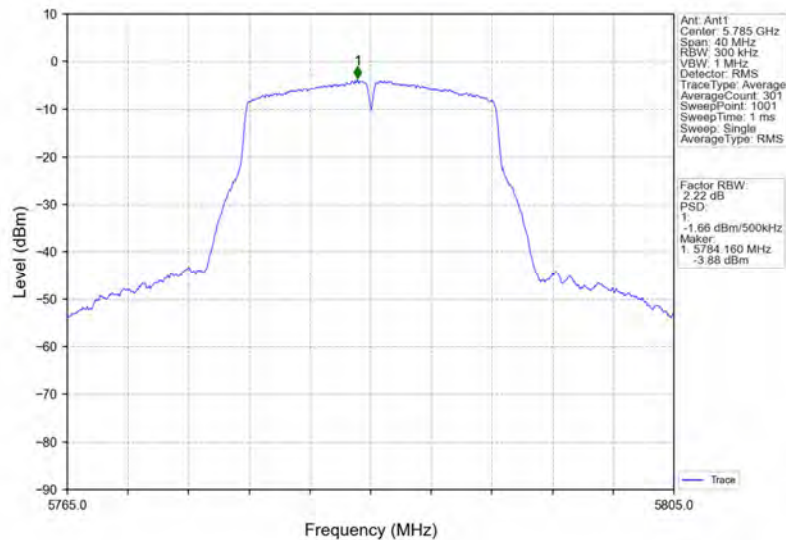
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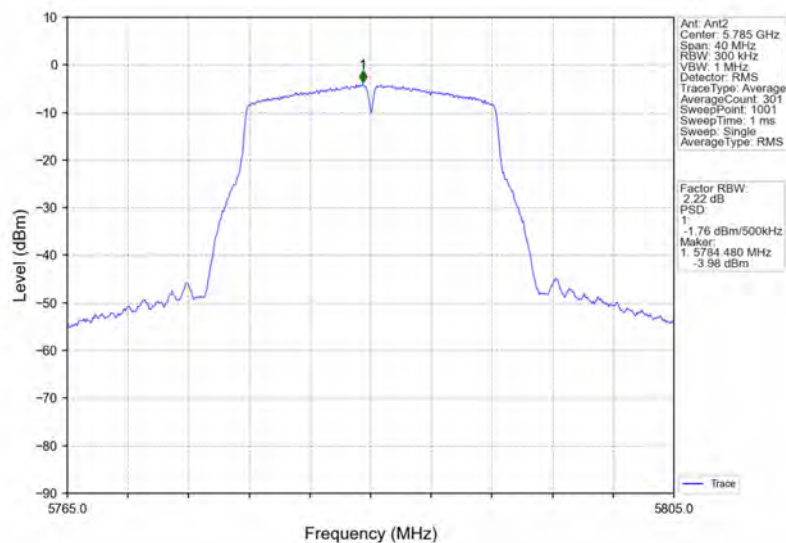
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802.11a_MCH_5785MHz_Ant2_NTNV



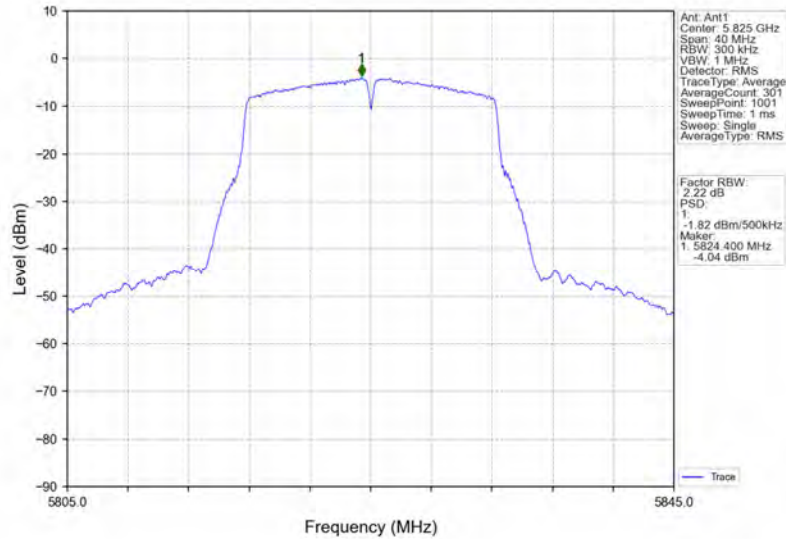
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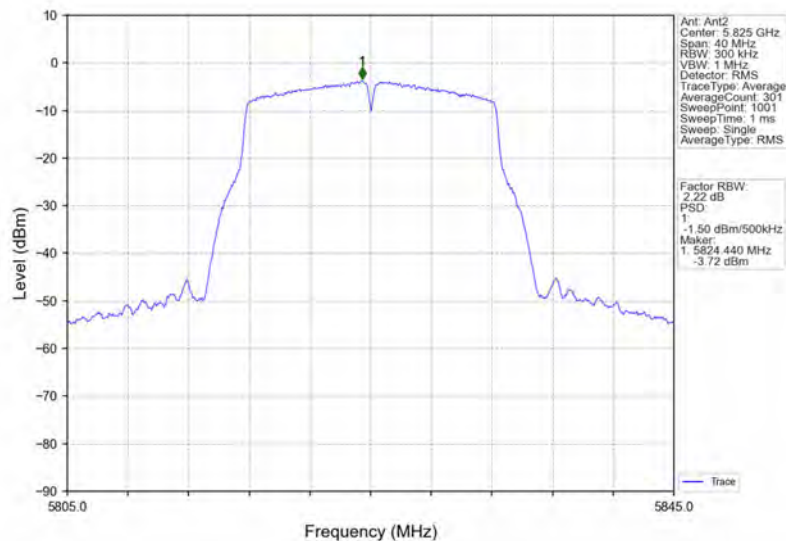
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802.11a_HCH_5825MHz_Ant2_NTNV



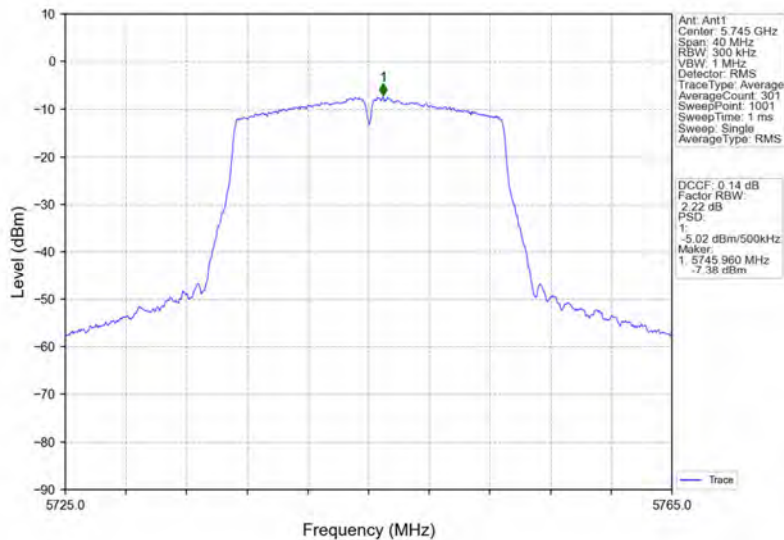
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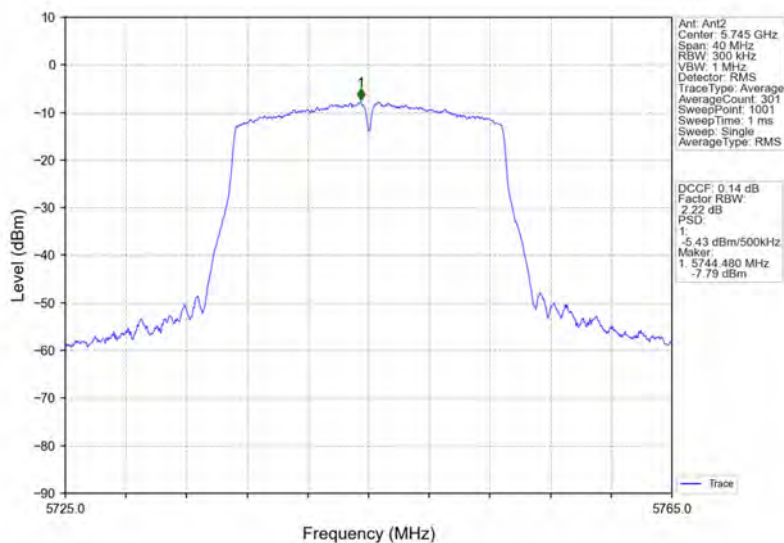
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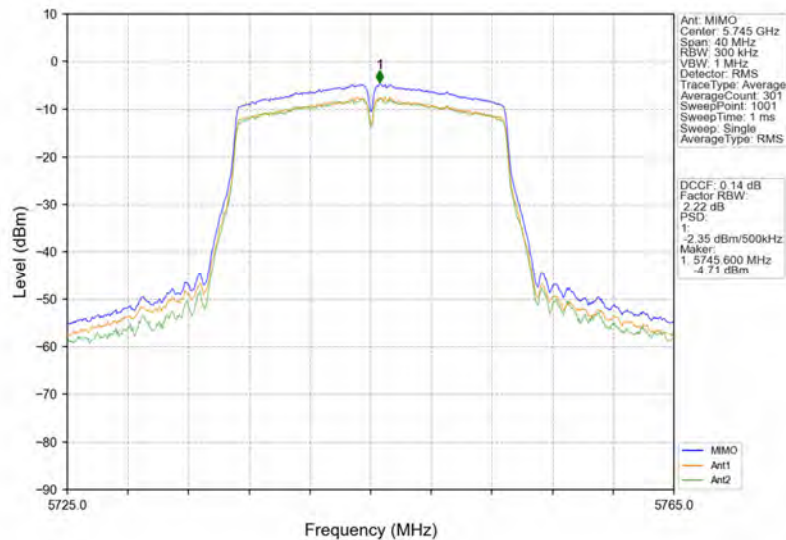
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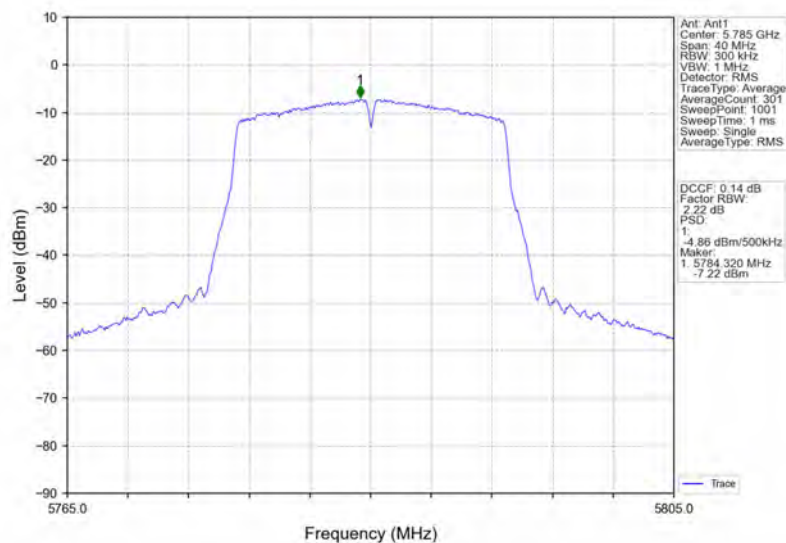
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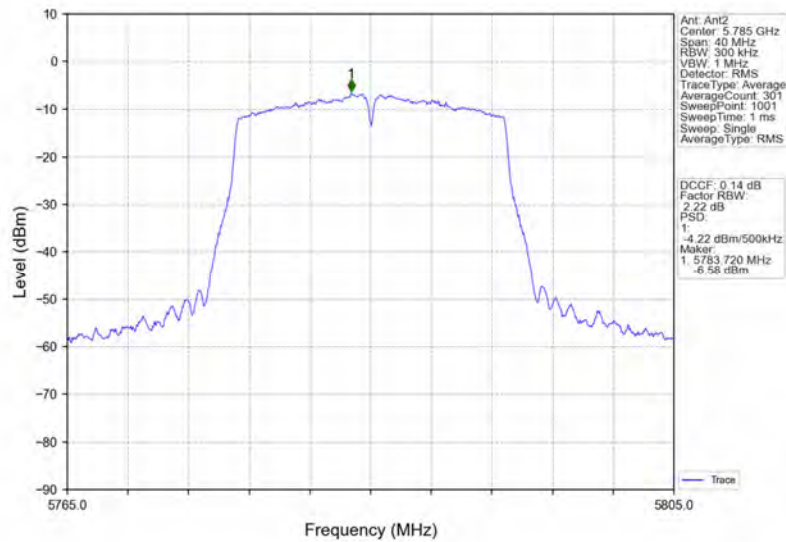


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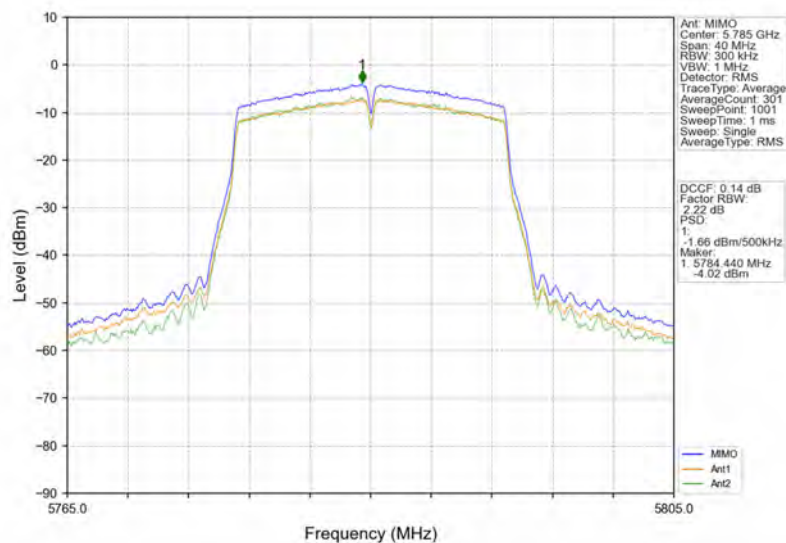
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802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



802.11n(HT20)_MCH_5785MHz_MIMO_NTNV



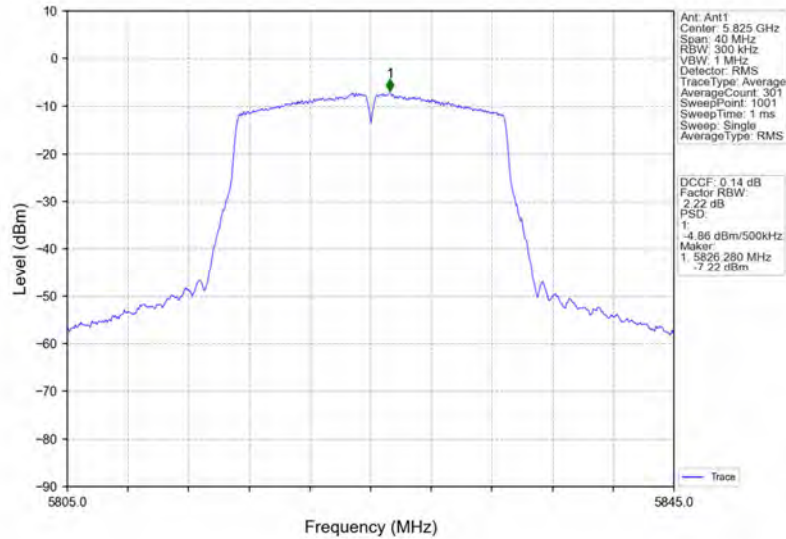
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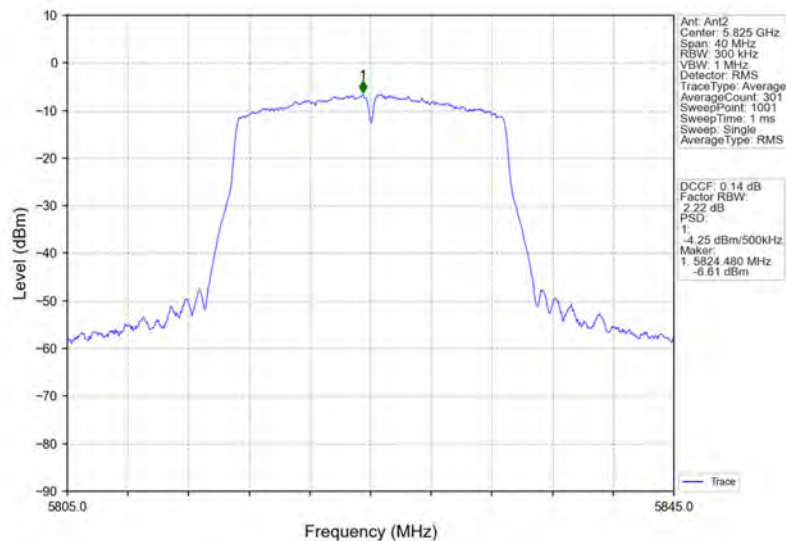
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802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



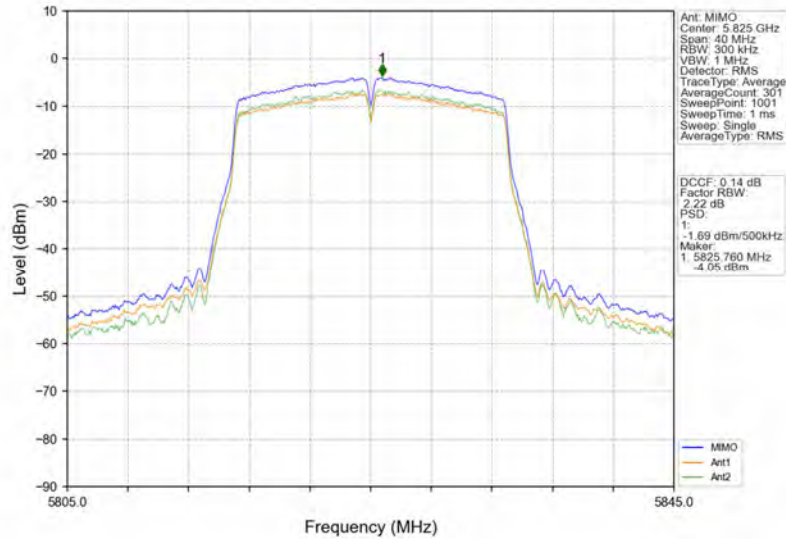
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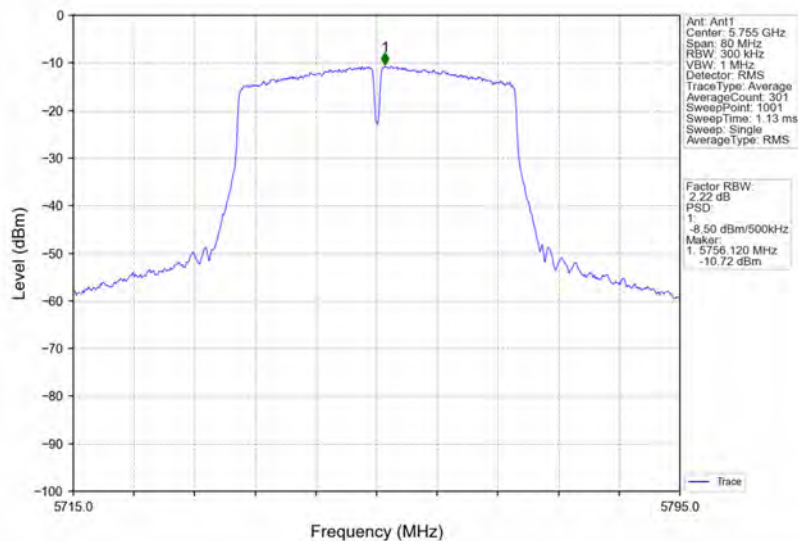
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



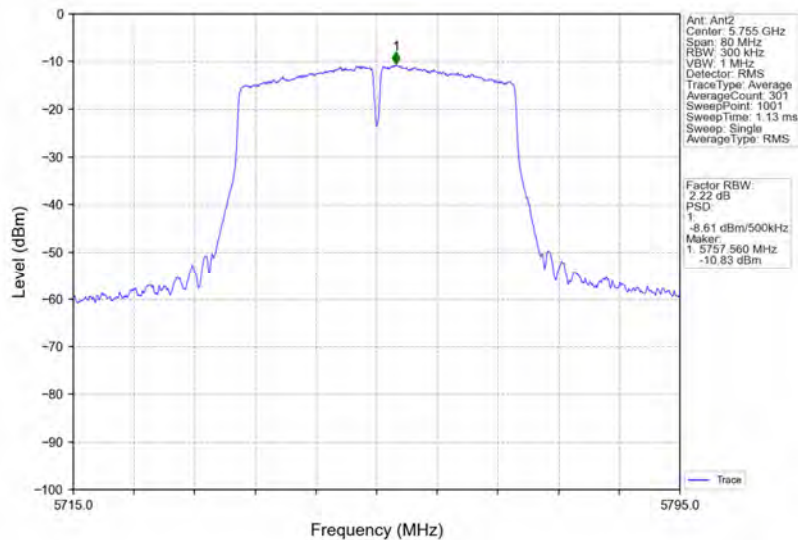
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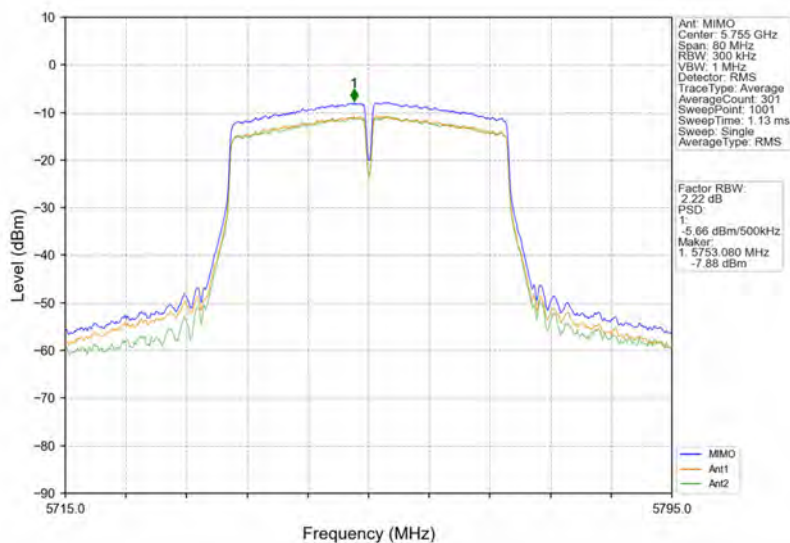
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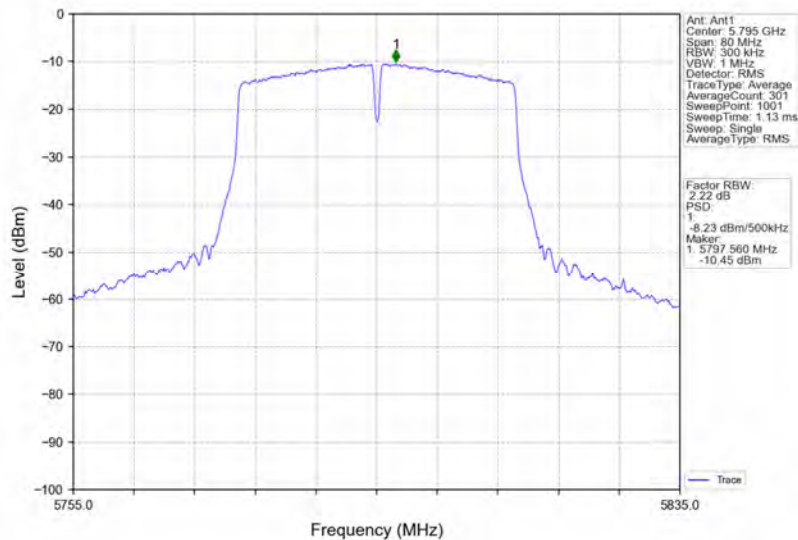
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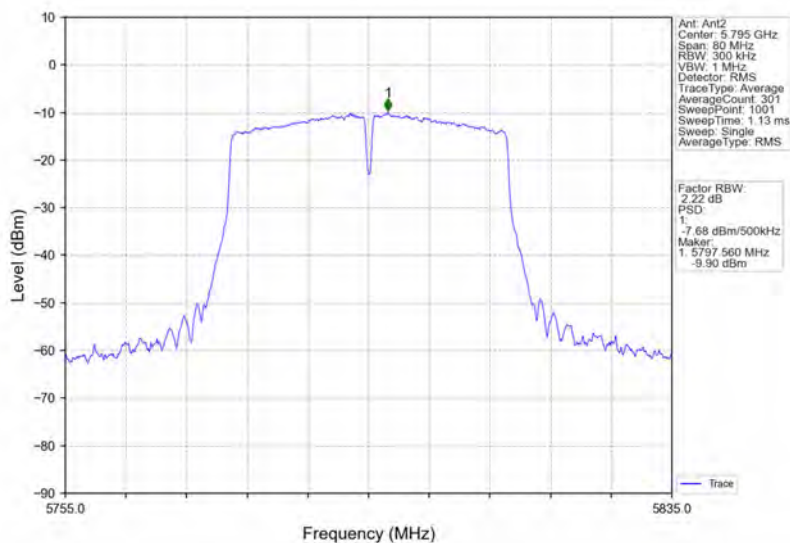
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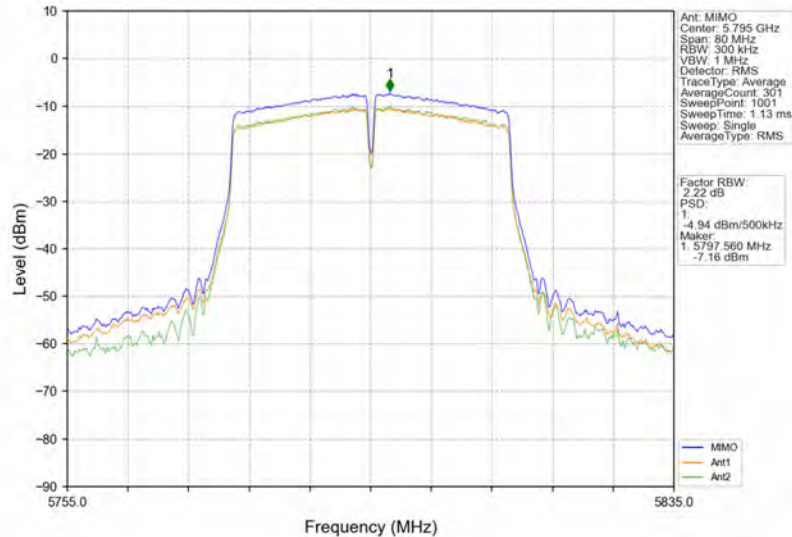
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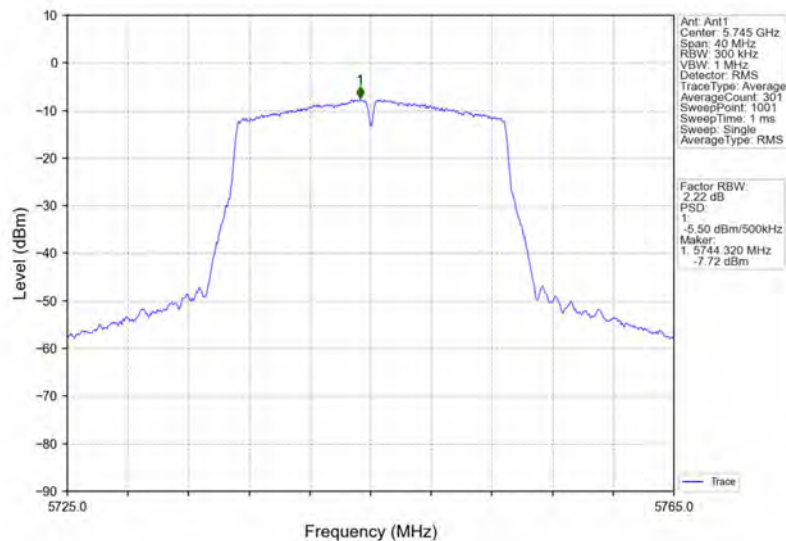
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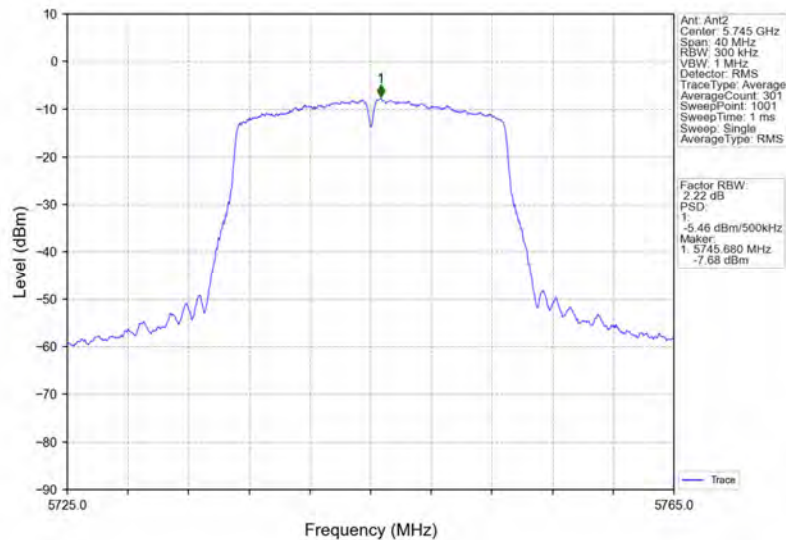


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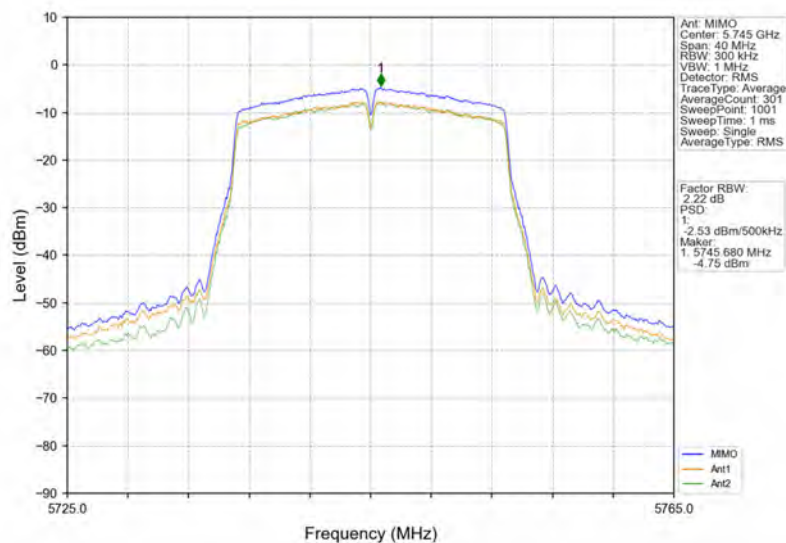
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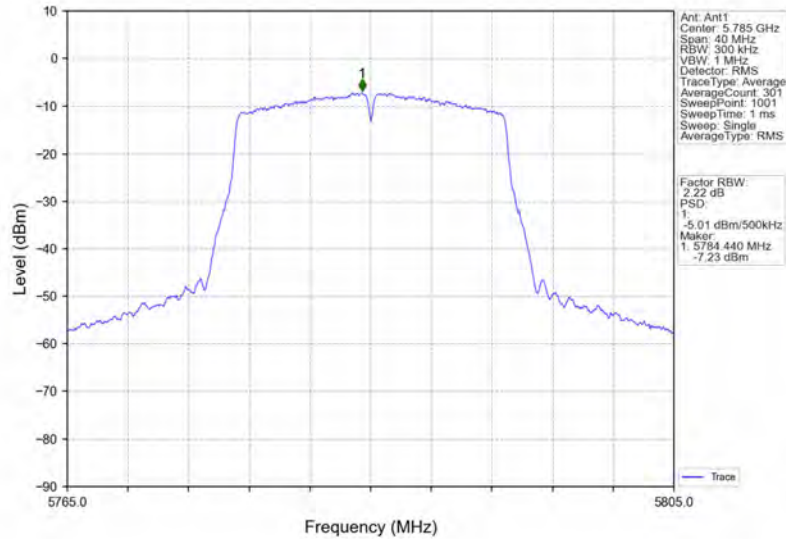
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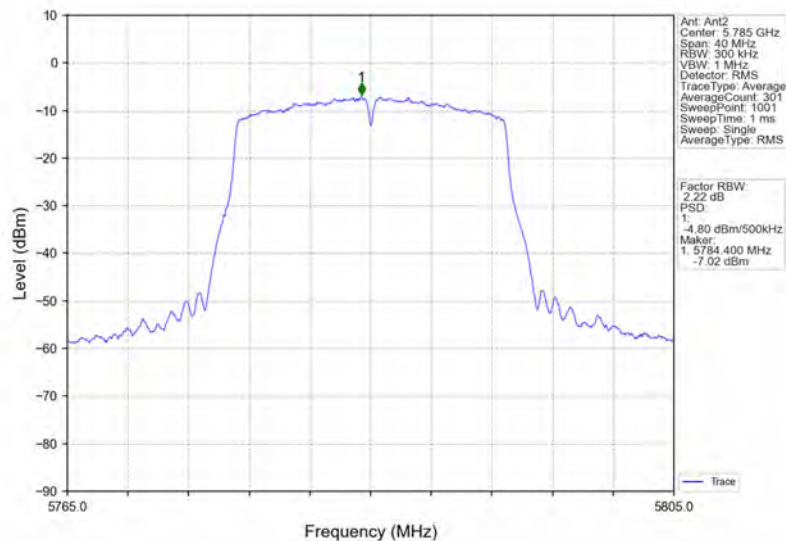
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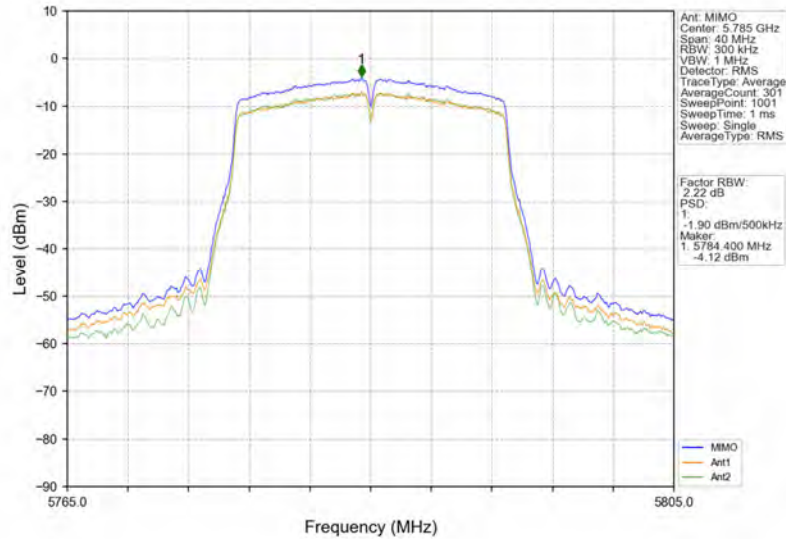
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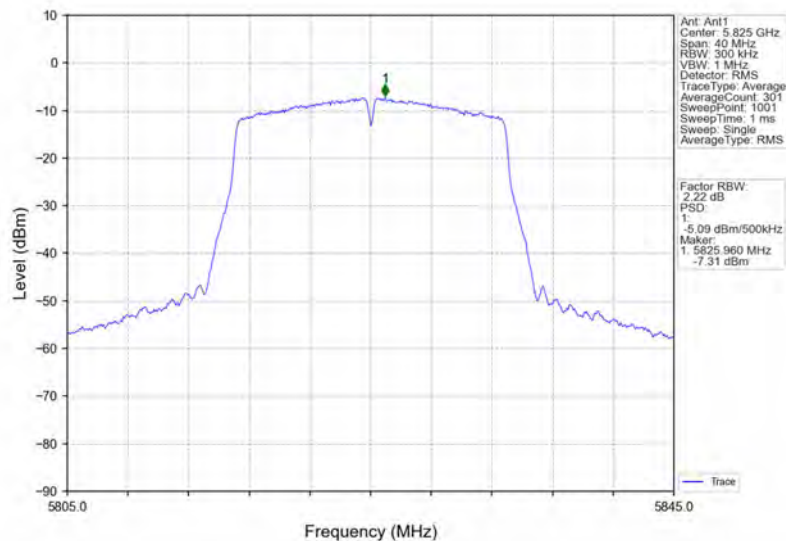
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



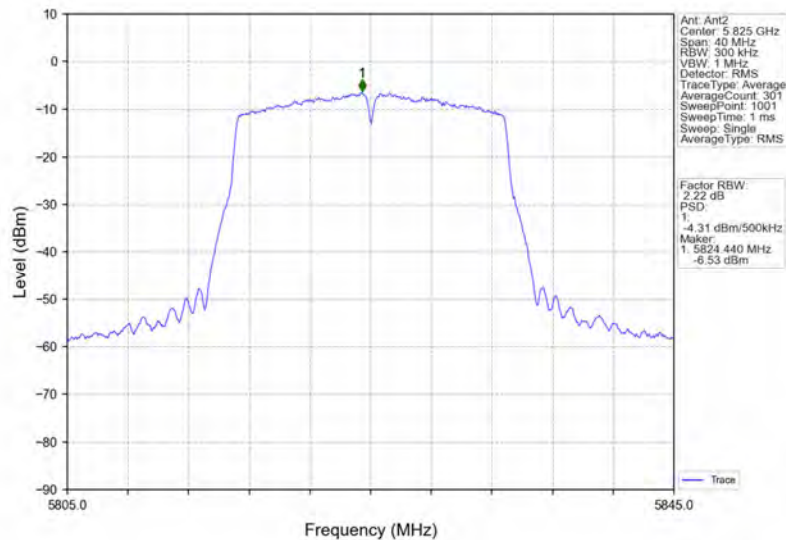
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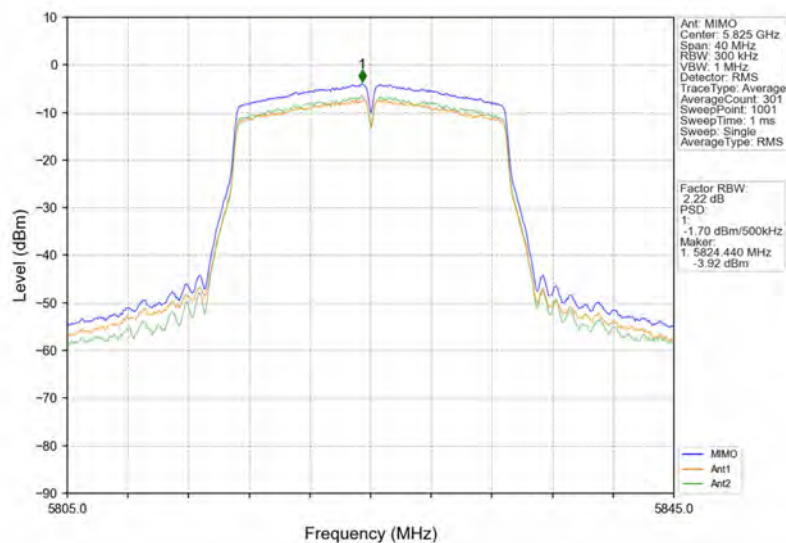
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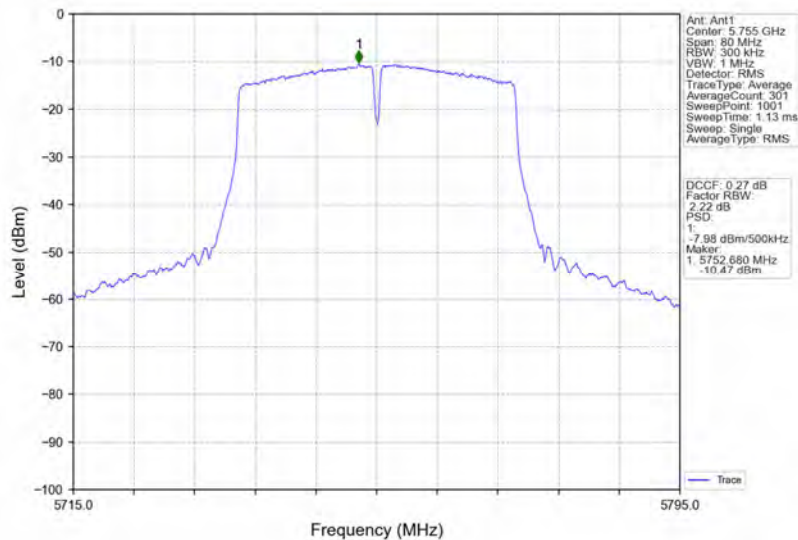
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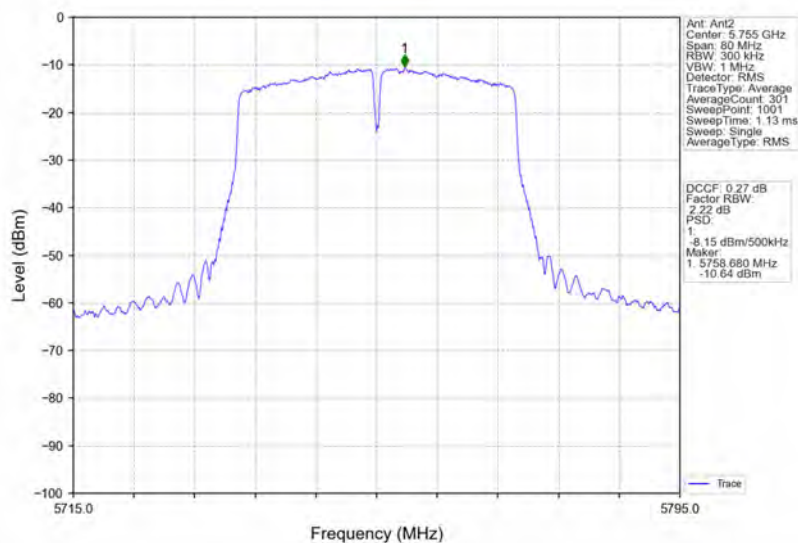
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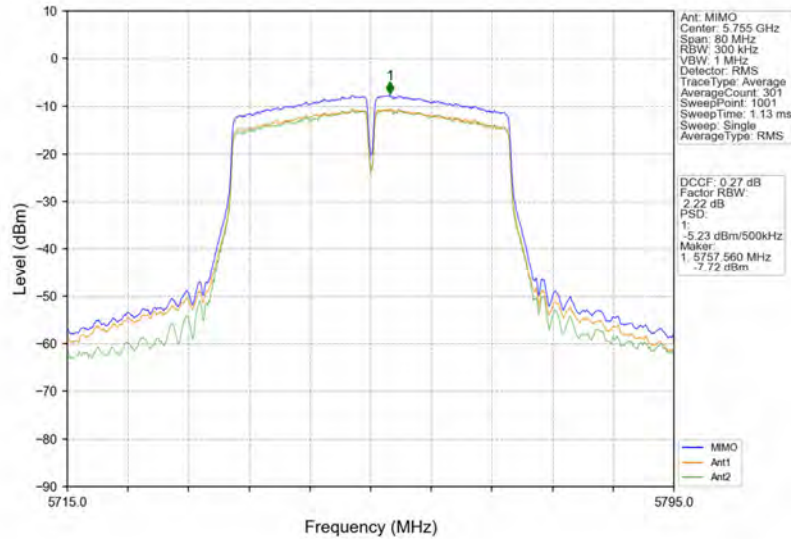
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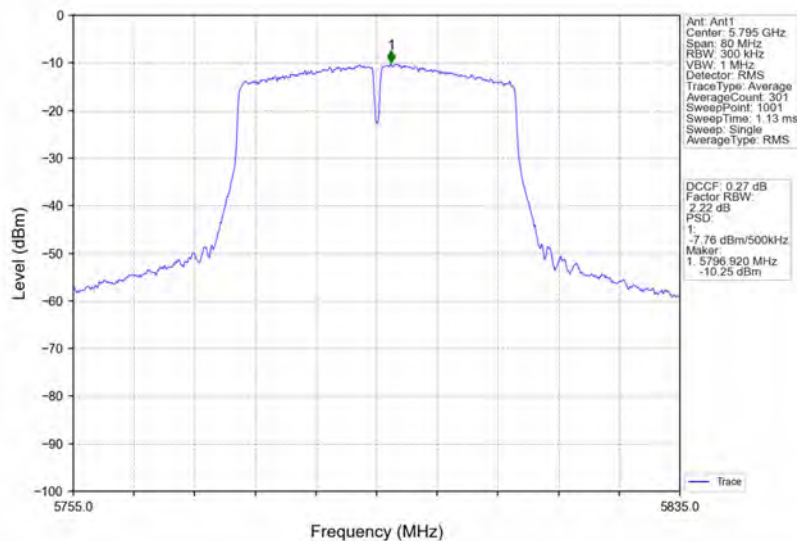
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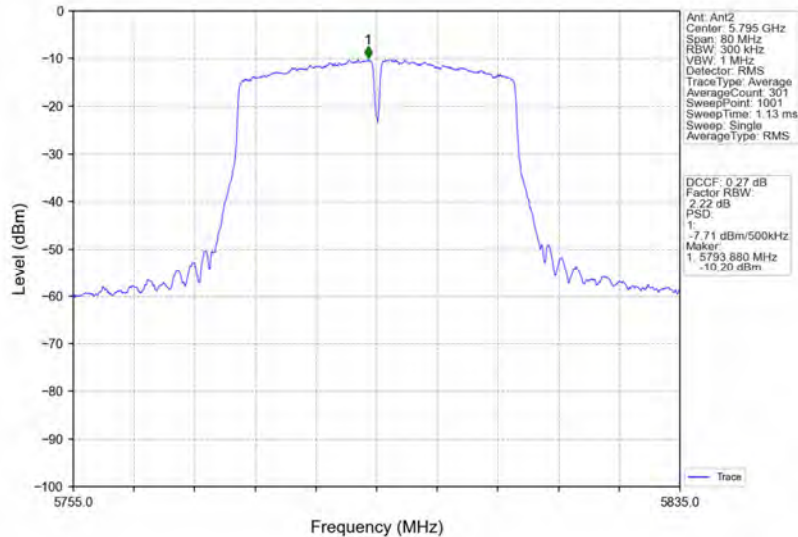
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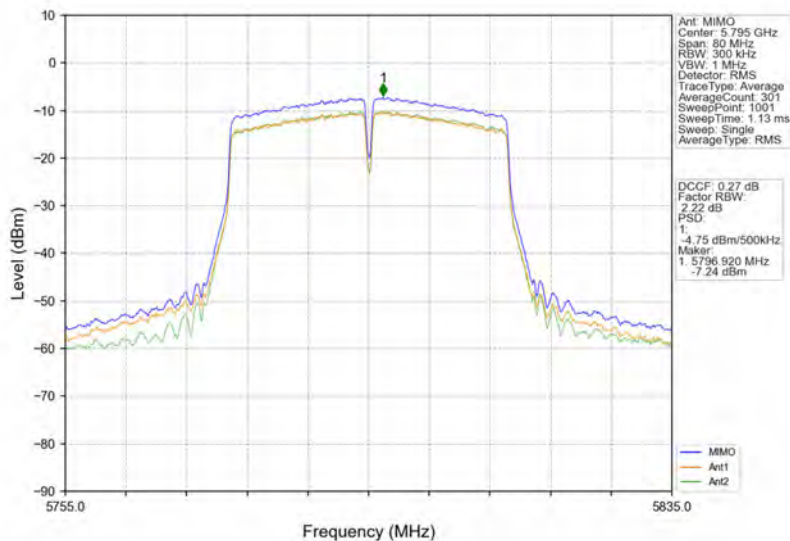
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802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5795MHz_MIMO_NTNV



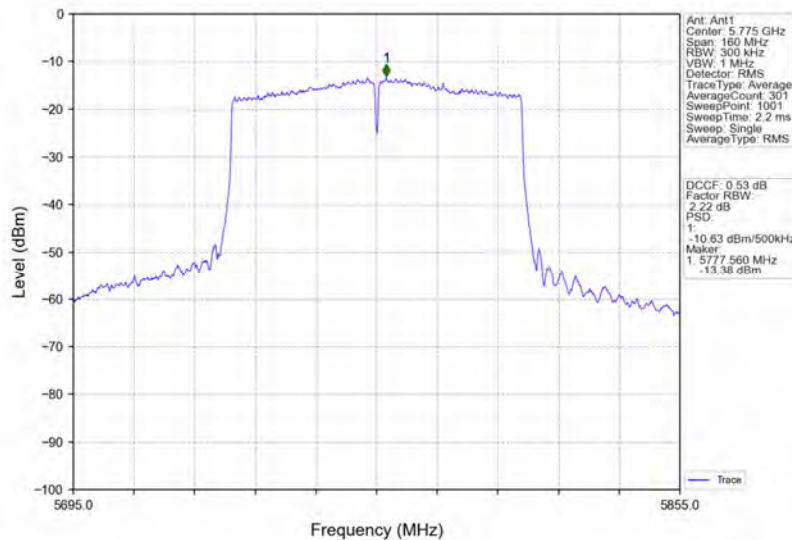
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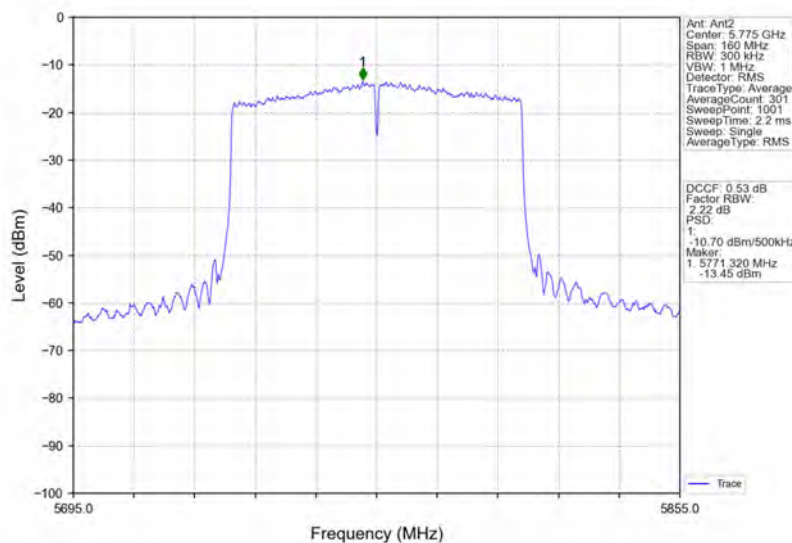
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



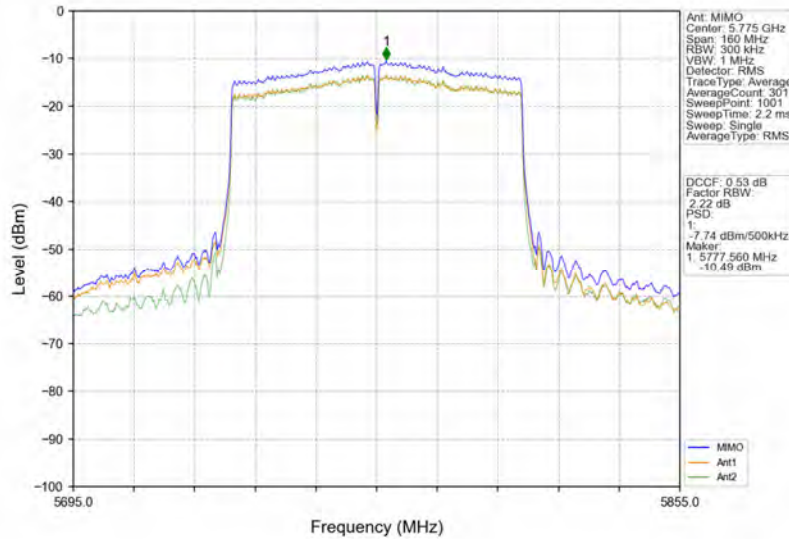
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802.11ac(VHT80)_MCH_5775MHz_MIMO_NTNV



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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (V DC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	2.97	5180.000	5150 to 5250	Pass
				3.3	5180.020	5150 to 5250	Pass
				3.63	5180.020	5150 to 5250	Pass
			-30	3.3	5180.000	5150 to 5250	Pass
			-20	3.3	5180.020	5150 to 5250	Pass
			-10	3.3	5180.020	5150 to 5250	Pass
			0	3.3	5180.080	5150 to 5250	Pass
			10	3.3	5179.960	5150 to 5250	Pass
			30	3.3	5179.980	5150 to 5250	Pass
			40	3.3	5180.000	5150 to 5250	Pass
			50	3.3	5179.940	5150 to 5250	Pass
		5200	20	2.97	5200.020	5150 to 5250	Pass
				3.3	5200.020	5150 to 5250	Pass
				3.63	5199.920	5150 to 5250	Pass
			-30	3.3	5199.920	5150 to 5250	Pass
			-20	3.3	5199.980	5150 to 5250	Pass
			-10	3.3	5199.980	5150 to 5250	Pass
			0	3.3	5200.000	5150 to 5250	Pass
			10	3.3	5199.960	5150 to 5250	Pass
			30	3.3	5200.080	5150 to 5250	Pass
			40	3.3	5199.960	5150 to 5250	Pass
			50	3.3	5199.960	5150 to 5250	Pass
		5240	20	2.97	5239.960	5150 to 5250	Pass
				3.3	5239.980	5150 to 5250	Pass
				3.63	5240.000	5150 to 5250	Pass
			-30	3.3	5240.020	5150 to 5250	Pass
			-20	3.3	5239.980	5150 to 5250	Pass
			-10	3.3	5239.940	5150 to 5250	Pass
			0	3.3	5239.980	5150 to 5250	Pass
			10	3.3	5239.980	5150 to 5250	Pass
			30	3.3	5239.960	5150 to 5250	Pass
			40	3.3	5239.960	5150 to 5250	Pass
			50	3.3	5240.000	5150 to 5250	Pass
		5745	20	2.97	5745.060	5725 to 5850	Pass
				3.3	5744.940	5725 to 5850	Pass
				3.63	5744.980	5725 to 5850	Pass
			-30	3.3	5745.000	5725 to 5850	Pass
			-20	3.3	5744.980	5725 to 5850	Pass
			-10	3.3	5744.960	5725 to 5850	Pass
			0	3.3	5745.000	5725 to 5850	Pass
			10	3.3	5745.020	5725 to 5850	Pass
			30	3.3	5745.040	5725 to 5850	Pass
			40	3.3	5745.040	5725 to 5850	Pass
			50	3.3	5745.000	5725 to 5850	Pass



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		5785	20	2.97	5784.980	5725 to 5850	Pass
				3.3	5785.000	5725 to 5850	Pass
				3.63	5784.940	5725 to 5850	Pass
			-30	3.3	5784.980	5725 to 5850	Pass
			-20	3.3	5784.960	5725 to 5850	Pass
			-10	3.3	5785.000	5725 to 5850	Pass
			0	3.3	5784.940	5725 to 5850	Pass
			10	3.3	5784.920	5725 to 5850	Pass
			30	3.3	5784.960	5725 to 5850	Pass
			40	3.3	5785.000	5725 to 5850	Pass
			50	3.3	5785.000	5725 to 5850	Pass
		5825	20	2.97	5825.020	5725 to 5850	Pass
				3.3	5825.020	5725 to 5850	Pass
				3.63	5824.960	5725 to 5850	Pass
			-30	3.3	5824.960	5725 to 5850	Pass
			-20	3.3	5824.920	5725 to 5850	Pass
			-10	3.3	5824.960	5725 to 5850	Pass
			0	3.3	5824.940	5725 to 5850	Pass
			10	3.3	5825.040	5725 to 5850	Pass
			30	3.3	5825.000	5725 to 5850	Pass
			40	3.3	5824.920	5725 to 5850	Pass
			50	3.3	5824.960	5725 to 5850	Pass
802.11n (HT20)	MIMO	5180	20	2.97	5180.060	5150 to 5250	Pass
				3.3	5180.020	5150 to 5250	Pass
				3.63	5180.080	5150 to 5250	Pass
			-30	3.3	5180.020	5150 to 5250	Pass
			-20	3.3	5180.000	5150 to 5250	Pass
			-10	3.3	5180.020	5150 to 5250	Pass
			0	3.3	5179.960	5150 to 5250	Pass
			10	3.3	5180.040	5150 to 5250	Pass
			30	3.3	5180.020	5150 to 5250	Pass
			40	3.3	5180.000	5150 to 5250	Pass
			50	3.3	5179.980	5150 to 5250	Pass
		5200	20	2.97	5200.060	5150 to 5250	Pass
				3.3	5200.000	5150 to 5250	Pass
				3.63	5200.040	5150 to 5250	Pass
			-30	3.3	5200.060	5150 to 5250	Pass
			-20	3.3	5200.020	5150 to 5250	Pass
			-10	3.3	5200.020	5150 to 5250	Pass
			0	3.3	5200.000	5150 to 5250	Pass
			10	3.3	5200.000	5150 to 5250	Pass
			30	3.3	5200.020	5150 to 5250	Pass
			40	3.3	5200.020	5150 to 5250	Pass
			50	3.3	5199.980	5150 to 5250	Pass
		5240	20	2.97	5240.040	5150 to 5250	Pass
				3.3	5240.000	5150 to 5250	Pass
				3.63	5240.000	5150 to 5250	Pass
			-30	3.3	5240.040	5150 to 5250	Pass
			-20	3.3	5240.020	5150 to 5250	Pass
			-10	3.3	5240.020	5150 to 5250	Pass
			0	3.3	5240.020	5150 to 5250	Pass
			10	3.3	5240.000	5150 to 5250	Pass
			30	3.3	5240.020	5150 to 5250	Pass
			40	3.3	5240.080	5150 to 5250	Pass



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		5745	50	3.3	5240.060	5150 to 5250	Pass
			20	2.97	5745.060	5725 to 5850	Pass
				3.3	5745.020	5725 to 5850	Pass
				3.63	5745.020	5725 to 5850	Pass
				3.3	5745.000	5725 to 5850	Pass
			-20	3.3	5745.020	5725 to 5850	Pass
			-10	3.3	5745.080	5725 to 5850	Pass
			0	3.3	5745.020	5725 to 5850	Pass
			10	3.3	5745.020	5725 to 5850	Pass
			30	3.3	5745.120	5725 to 5850	Pass
			40	3.3	5745.020	5725 to 5850	Pass
			50	3.3	5745.020	5725 to 5850	Pass
		5785	20	2.97	5785.000	5725 to 5850	Pass
				3.3	5785.020	5725 to 5850	Pass
				3.63	5785.020	5725 to 5850	Pass
			-30	3.3	5785.000	5725 to 5850	Pass
			-20	3.3	5785.020	5725 to 5850	Pass
			-10	3.3	5784.960	5725 to 5850	Pass
			0	3.3	5785.020	5725 to 5850	Pass
			10	3.3	5785.020	5725 to 5850	Pass
			30	3.3	5785.040	5725 to 5850	Pass
			40	3.3	5785.020	5725 to 5850	Pass
			50	3.3	5785.080	5725 to 5850	Pass
		5825	20	2.97	5824.980	5725 to 5850	Pass
				3.3	5825.000	5725 to 5850	Pass
				3.63	5825.000	5725 to 5850	Pass
			-30	3.3	5825.020	5725 to 5850	Pass
			-20	3.3	5825.020	5725 to 5850	Pass
			-10	3.3	5825.000	5725 to 5850	Pass
			0	3.3	5825.020	5725 to 5850	Pass
			10	3.3	5825.040	5725 to 5850	Pass
			30	3.3	5825.020	5725 to 5850	Pass
			40	3.3	5825.000	5725 to 5850	Pass
			50	3.3	5825.080	5725 to 5850	Pass
802.11n (HT40)	MIMO	5190	20	2.97	5190.040	5150 to 5250	Pass
				3.3	5190.080	5150 to 5250	Pass
				3.63	5190.040	5150 to 5250	Pass
			-30	3.3	5190.080	5150 to 5250	Pass
			-20	3.3	5190.040	5150 to 5250	Pass
			-10	3.3	5190.040	5150 to 5250	Pass
			0	3.3	5190.040	5150 to 5250	Pass
			10	3.3	5190.040	5150 to 5250	Pass
			30	3.3	5190.040	5150 to 5250	Pass
			40	3.3	5190.080	5150 to 5250	Pass
			50	3.3	5190.080	5150 to 5250	Pass
		5230	20	2.97	5230.080	5150 to 5250	Pass
				3.3	5230.080	5150 to 5250	Pass
				3.63	5230.080	5150 to 5250	Pass
			-30	3.3	5230.080	5150 to 5250	Pass
			-20	3.3	5230.080	5150 to 5250	Pass
			-10	3.3	5230.040	5150 to 5250	Pass
			0	3.3	5230.040	5150 to 5250	Pass
			10	3.3	5230.080	5150 to 5250	Pass
			30	3.3	5230.040	5150 to 5250	Pass



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			40	3.3	5230.080	5150 to 5250	Pass
			50	3.3	5230.080	5150 to 5250	Pass
		5755	20	2.97	5755.000	5725 to 5850	Pass
				3.3	5755.080	5725 to 5850	Pass
				3.63	5755.080	5725 to 5850	Pass
			-30	3.3	5755.080	5725 to 5850	Pass
			-20	3.3	5755.080	5725 to 5850	Pass
			-10	3.3	5755.080	5725 to 5850	Pass
			0	3.3	5755.080	5725 to 5850	Pass
			10	3.3	5755.040	5725 to 5850	Pass
			30	3.3	5755.040	5725 to 5850	Pass
			40	3.3	5755.040	5725 to 5850	Pass
			50	3.3	5755.080	5725 to 5850	Pass
		5795	20	2.97	5795.000	5725 to 5850	Pass
				3.3	5795.080	5725 to 5850	Pass
				3.63	5795.080	5725 to 5850	Pass
			-30	3.3	5795.040	5725 to 5850	Pass
			-20	3.3	5795.000	5725 to 5850	Pass
			-10	3.3	5795.080	5725 to 5850	Pass
			0	3.3	5795.080	5725 to 5850	Pass
			10	3.3	5795.080	5725 to 5850	Pass
			30	3.3	5795.080	5725 to 5850	Pass
			40	3.3	5795.080	5725 to 5850	Pass
			50	3.3	5795.080	5725 to 5850	Pass
802.11ac (VHT20)	MIMO	5180	20	2.97	5180.000	5150 to 5250	Pass
				3.3	5180.000	5150 to 5250	Pass
				3.63	5180.000	5150 to 5250	Pass
			-30	3.3	5180.080	5150 to 5250	Pass
			-20	3.3	5180.000	5150 to 5250	Pass
			-10	3.3	5180.040	5150 to 5250	Pass
			0	3.3	5179.980	5150 to 5250	Pass
			10	3.3	5180.000	5150 to 5250	Pass
			30	3.3	5180.000	5150 to 5250	Pass
			40	3.3	5179.980	5150 to 5250	Pass
			50	3.3	5179.980	5150 to 5250	Pass
		5200	20	2.97	5200.040	5150 to 5250	Pass
				3.3	5200.080	5150 to 5250	Pass
				3.63	5200.040	5150 to 5250	Pass
			-30	3.3	5200.060	5150 to 5250	Pass
			-20	3.3	5200.080	5150 to 5250	Pass
			-10	3.3	5200.040	5150 to 5250	Pass
			0	3.3	5199.980	5150 to 5250	Pass
			10	3.3	5200.060	5150 to 5250	Pass
			30	3.3	5200.020	5150 to 5250	Pass
			40	3.3	5200.040	5150 to 5250	Pass
			50	3.3	5199.980	5150 to 5250	Pass
		5240	20	2.97	5240.020	5150 to 5250	Pass
				3.3	5240.040	5150 to 5250	Pass
				3.63	5239.980	5150 to 5250	Pass
			-30	3.3	5240.060	5150 to 5250	Pass
			-20	3.3	5239.980	5150 to 5250	Pass
			-10	3.3	5240.040	5150 to 5250	Pass
			0	3.3	5240.040	5150 to 5250	Pass
			10	3.3	5240.040	5150 to 5250	Pass



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802.11ac (VHT40)	MIMO		30	3.3	5240.000	5150 to 5250	Pass
			40	3.3	5240.040	5150 to 5250	Pass
			50	3.3	5240.040	5150 to 5250	Pass
		5745	20	2.97	5744.980	5725 to 5850	Pass
				3.3	5745.020	5725 to 5850	Pass
				3.63	5745.020	5725 to 5850	Pass
			-30	3.3	5745.060	5725 to 5850	Pass
			-20	3.3	5745.020	5725 to 5850	Pass
			-10	3.3	5745.040	5725 to 5850	Pass
			0	3.3	5745.020	5725 to 5850	Pass
			10	3.3	5745.060	5725 to 5850	Pass
			30	3.3	5745.040	5725 to 5850	Pass
			40	3.3	5745.040	5725 to 5850	Pass
			50	3.3	5745.000	5725 to 5850	Pass
		5785	20	2.97	5785.040	5725 to 5850	Pass
				3.3	5785.040	5725 to 5850	Pass
				3.63	5785.020	5725 to 5850	Pass
			-30	3.3	5785.060	5725 to 5850	Pass
			-20	3.3	5785.000	5725 to 5850	Pass
			-10	3.3	5785.040	5725 to 5850	Pass
			0	3.3	5785.020	5725 to 5850	Pass
			10	3.3	5784.980	5725 to 5850	Pass
			30	3.3	5785.020	5725 to 5850	Pass
			40	3.3	5784.980	5725 to 5850	Pass
			50	3.3	5785.020	5725 to 5850	Pass
		5825	20	2.97	5824.980	5725 to 5850	Pass
				3.3	5825.000	5725 to 5850	Pass
				3.63	5825.000	5725 to 5850	Pass
			-30	3.3	5824.980	5725 to 5850	Pass
			-20	3.3	5825.000	5725 to 5850	Pass
			-10	3.3	5825.020	5725 to 5850	Pass
			0	3.3	5825.000	5725 to 5850	Pass
			10	3.3	5825.000	5725 to 5850	Pass
			30	3.3	5825.060	5725 to 5850	Pass
			40	3.3	5825.040	5725 to 5850	Pass
			50	3.3	5824.980	5725 to 5850	Pass
		5190	20	2.97	5190.080	5150 to 5250	Pass
				3.3	5190.080	5150 to 5250	Pass
				3.63	5190.000	5150 to 5250	Pass
			-30	3.3	5190.080	5150 to 5250	Pass
			-20	3.3	5190.040	5150 to 5250	Pass
			-10	3.3	5190.080	5150 to 5250	Pass
			0	3.3	5190.080	5150 to 5250	Pass
			10	3.3	5190.080	5150 to 5250	Pass
			30	3.3	5190.040	5150 to 5250	Pass
			40	3.3	5190.040	5150 to 5250	Pass
			50	3.3	5190.000	5150 to 5250	Pass
		5230	20	2.97	5230.040	5150 to 5250	Pass
				3.3	5230.040	5150 to 5250	Pass
				3.63	5230.080	5150 to 5250	Pass
			-30	3.3	5230.080	5150 to 5250	Pass
			-20	3.3	5230.040	5150 to 5250	Pass
			-10	3.3	5230.040	5150 to 5250	Pass
			0	3.3	5230.040	5150 to 5250	Pass



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			10	3.3	5230.080	5150 to 5250	Pass
			30	3.3	5230.080	5150 to 5250	Pass
			40	3.3	5230.040	5150 to 5250	Pass
			50	3.3	5230.080	5150 to 5250	Pass
		5755	20	2.97	5755.080	5725 to 5850	Pass
				3.3	5755.080	5725 to 5850	Pass
				3.63	5755.080	5725 to 5850	Pass
			-30	3.3	5755.080	5725 to 5850	Pass
			-20	3.3	5755.000	5725 to 5850	Pass
			-10	3.3	5755.080	5725 to 5850	Pass
			0	3.3	5755.080	5725 to 5850	Pass
			10	3.3	5755.080	5725 to 5850	Pass
			30	3.3	5755.080	5725 to 5850	Pass
			40	3.3	5755.080	5725 to 5850	Pass
			50	3.3	5755.080	5725 to 5850	Pass
		5795	20	2.97	5795.080	5725 to 5850	Pass
				3.3	5795.000	5725 to 5850	Pass
				3.63	5795.080	5725 to 5850	Pass
			-30	3.3	5795.040	5725 to 5850	Pass
			-20	3.3	5795.040	5725 to 5850	Pass
			-10	3.3	5795.080	5725 to 5850	Pass
			0	3.3	5795.080	5725 to 5850	Pass
			10	3.3	5795.040	5725 to 5850	Pass
			30	3.3	5795.080	5725 to 5850	Pass
			40	3.3	5795.080	5725 to 5850	Pass
			50	3.3	5795.040	5725 to 5850	Pass
802.11ac (VHT80)	MIMO	5210	20	2.97	5210.150	5150 to 5250	Pass
				3.3	5210.075	5150 to 5250	Pass
				3.63	5210.075	5150 to 5250	Pass
			-30	3.3	5210.075	5150 to 5250	Pass
			-20	3.3	5210.075	5150 to 5250	Pass
			-10	3.3	5210.075	5150 to 5250	Pass
			0	3.3	5210.075	5150 to 5250	Pass
			10	3.3	5210.075	5150 to 5250	Pass
			30	3.3	5210.075	5150 to 5250	Pass
			40	3.3	5210.150	5150 to 5250	Pass
			50	3.3	5210.150	5150 to 5250	Pass
		5775	20	2.97	5775.075	5725 to 5850	Pass
				3.3	5775.075	5725 to 5850	Pass
				3.63	5775.150	5725 to 5850	Pass
			-30	3.3	5775.150	5725 to 5850	Pass
			-20	3.3	5775.075	5725 to 5850	Pass
			-10	3.3	5775.150	5725 to 5850	Pass
			0	3.3	5775.150	5725 to 5850	Pass
			10	3.3	5775.150	5725 to 5850	Pass
			30	3.3	5775.150	5725 to 5850	Pass
			40	3.3	5775.150	5725 to 5850	Pass
			50	3.3	5775.150	5725 to 5850	Pass



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5.2 Ant2

5.2.1 Test Result

Ant2							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (V DC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	2.97	5179.980	5150 to 5250	Pass
				3.3	5179.940	5150 to 5250	Pass
				3.63	5179.960	5150 to 5250	Pass
			-30	3.3	5179.940	5150 to 5250	Pass
			-20	3.3	5179.980	5150 to 5250	Pass
			-10	3.3	5179.940	5150 to 5250	Pass
			0	3.3	5179.940	5150 to 5250	Pass
			10	3.3	5180.000	5150 to 5250	Pass
			30	3.3	5179.940	5150 to 5250	Pass
			40	3.3	5179.980	5150 to 5250	Pass
			50	3.3	5179.980	5150 to 5250	Pass
		5200	20	2.97	5200.020	5150 to 5250	Pass
				3.3	5200.000	5150 to 5250	Pass
				3.63	5199.960	5150 to 5250	Pass
			-30	3.3	5200.040	5150 to 5250	Pass
			-20	3.3	5200.000	5150 to 5250	Pass
			-10	3.3	5200.040	5150 to 5250	Pass
			0	3.3	5199.980	5150 to 5250	Pass
			10	3.3	5200.000	5150 to 5250	Pass
			30	3.3	5200.000	5150 to 5250	Pass
			40	3.3	5200.060	5150 to 5250	Pass
			50	3.3	5199.980	5150 to 5250	Pass
		5240	20	2.97	5239.980	5150 to 5250	Pass
				3.3	5240.000	5150 to 5250	Pass
				3.63	5240.060	5150 to 5250	Pass
			-30	3.3	5240.040	5150 to 5250	Pass
			-20	3.3	5239.960	5150 to 5250	Pass
			-10	3.3	5240.000	5150 to 5250	Pass
			0	3.3	5240.020	5150 to 5250	Pass
			10	3.3	5239.980	5150 to 5250	Pass
			30	3.3	5240.000	5150 to 5250	Pass
			40	3.3	5240.000	5150 to 5250	Pass
			50	3.3	5239.980	5150 to 5250	Pass
		5745	20	2.97	5745.080	5725 to 5850	Pass
				3.3	5745.020	5725 to 5850	Pass
				3.63	5744.960	5725 to 5850	Pass
			-30	3.3	5745.020	5725 to 5850	Pass
			-20	3.3	5745.040	5725 to 5850	Pass
			-10	3.3	5745.020	5725 to 5850	Pass
			0	3.3	5745.000	5725 to 5850	Pass
			10	3.3	5744.980	5725 to 5850	Pass
			30	3.3	5745.000	5725 to 5850	Pass
			40	3.3	5745.020	5725 to 5850	Pass
			50	3.3	5745.040	5725 to 5850	Pass
		5785	20	2.97	5784.980	5725 to 5850	Pass
				3.3	5784.980	5725 to 5850	Pass
				3.63	5785.020	5725 to 5850	Pass



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802.11n (HT20)	MIMO		-30	3.3	5785.020	5725 to 5850	Pass
			-20	3.3	5785.020	5725 to 5850	Pass
			-10	3.3	5785.020	5725 to 5850	Pass
			0	3.3	5784.980	5725 to 5850	Pass
			10	3.3	5785.020	5725 to 5850	Pass
			30	3.3	5785.000	5725 to 5850	Pass
			40	3.3	5784.960	5725 to 5850	Pass
			50	3.3	5785.000	5725 to 5850	Pass
		5825	20	2.97	5824.980	5725 to 5850	Pass
				3.3	5825.020	5725 to 5850	Pass
				3.63	5824.940	5725 to 5850	Pass
			-30	3.3	5825.000	5725 to 5850	Pass
			-20	3.3	5824.960	5725 to 5850	Pass
			-10	3.3	5825.000	5725 to 5850	Pass
			0	3.3	5824.980	5725 to 5850	Pass
			10	3.3	5825.040	5725 to 5850	Pass
			30	3.3	5824.960	5725 to 5850	Pass
			40	3.3	5825.040	5725 to 5850	Pass
			50	3.3	5824.960	5725 to 5850	Pass
		5180	20	2.97	5180.020	5150 to 5250	Pass
				3.3	5180.040	5150 to 5250	Pass
				3.63	5180.000	5150 to 5250	Pass
			-30	3.3	5180.040	5150 to 5250	Pass
			-20	3.3	5180.020	5150 to 5250	Pass
			-10	3.3	5180.020	5150 to 5250	Pass
			0	3.3	5180.020	5150 to 5250	Pass
			10	3.3	5180.060	5150 to 5250	Pass
			30	3.3	5180.020	5150 to 5250	Pass
			40	3.3	5180.040	5150 to 5250	Pass
			50	3.3	5180.020	5150 to 5250	Pass
		5200	20	2.97	5200.000	5150 to 5250	Pass
				3.3	5200.020	5150 to 5250	Pass
				3.63	5200.060	5150 to 5250	Pass
			-30	3.3	5200.040	5150 to 5250	Pass
			-20	3.3	5200.040	5150 to 5250	Pass
			-10	3.3	5200.020	5150 to 5250	Pass
			0	3.3	5200.020	5150 to 5250	Pass
			10	3.3	5200.020	5150 to 5250	Pass
			30	3.3	5200.020	5150 to 5250	Pass
			40	3.3	5200.020	5150 to 5250	Pass
			50	3.3	5200.020	5150 to 5250	Pass
		5240	20	2.97	5240.040	5150 to 5250	Pass
				3.3	5240.080	5150 to 5250	Pass
				3.63	5240.020	5150 to 5250	Pass
			-30	3.3	5240.000	5150 to 5250	Pass
			-20	3.3	5240.020	5150 to 5250	Pass
			-10	3.3	5240.040	5150 to 5250	Pass
			0	3.3	5240.020	5150 to 5250	Pass
			10	3.3	5240.040	5150 to 5250	Pass
			30	3.3	5240.020	5150 to 5250	Pass
			40	3.3	5240.040	5150 to 5250	Pass
			50	3.3	5240.040	5150 to 5250	Pass
		5745	20	2.97	5745.040	5725 to 5850	Pass
				3.3	5745.040	5725 to 5850	Pass



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		5785		3.63	5745.040	5725 to 5850	Pass
			-30	3.3	5745.040	5725 to 5850	Pass
			-20	3.3	5745.040	5725 to 5850	Pass
			-10	3.3	5745.040	5725 to 5850	Pass
			0	3.3	5745.040	5725 to 5850	Pass
			10	3.3	5745.040	5725 to 5850	Pass
			30	3.3	5745.040	5725 to 5850	Pass
			40	3.3	5745.020	5725 to 5850	Pass
			50	3.3	5745.040	5725 to 5850	Pass
			20	2.97	5785.020	5725 to 5850	Pass
				3.3	5785.040	5725 to 5850	Pass
				3.63	5785.040	5725 to 5850	Pass
			-30	3.3	5785.000	5725 to 5850	Pass
			-20	3.3	5785.000	5725 to 5850	Pass
			-10	3.3	5785.000	5725 to 5850	Pass
			0	3.3	5785.020	5725 to 5850	Pass
			10	3.3	5785.020	5725 to 5850	Pass
			30	3.3	5785.020	5725 to 5850	Pass
			40	3.3	5785.040	5725 to 5850	Pass
			50	3.3	5785.040	5725 to 5850	Pass
		5825	20	2.97	5825.040	5725 to 5850	Pass
				3.3	5825.040	5725 to 5850	Pass
				3.63	5825.020	5725 to 5850	Pass
			-30	3.3	5825.020	5725 to 5850	Pass
			-20	3.3	5825.020	5725 to 5850	Pass
			-10	3.3	5825.040	5725 to 5850	Pass
			0	3.3	5825.020	5725 to 5850	Pass
			10	3.3	5825.040	5725 to 5850	Pass
			30	3.3	5825.020	5725 to 5850	Pass
			40	3.3	5825.040	5725 to 5850	Pass
			50	3.3	5825.020	5725 to 5850	Pass
802.11n (HT40)	MIMO	5190	20	2.97	5190.080	5150 to 5250	Pass
				3.3	5190.120	5150 to 5250	Pass
				3.63	5190.080	5150 to 5250	Pass
			-30	3.3	5190.080	5150 to 5250	Pass
			-20	3.3	5190.080	5150 to 5250	Pass
			-10	3.3	5190.080	5150 to 5250	Pass
			0	3.3	5190.080	5150 to 5250	Pass
			10	3.3	5190.080	5150 to 5250	Pass
			30	3.3	5190.080	5150 to 5250	Pass
			40	3.3	5190.080	5150 to 5250	Pass
			50	3.3	5190.080	5150 to 5250	Pass
		5230	20	2.97	5230.080	5150 to 5250	Pass
				3.3	5230.080	5150 to 5250	Pass
				3.63	5230.080	5150 to 5250	Pass
			-30	3.3	5230.080	5150 to 5250	Pass
			-20	3.3	5230.040	5150 to 5250	Pass
			-10	3.3	5230.080	5150 to 5250	Pass
			0	3.3	5230.080	5150 to 5250	Pass
			10	3.3	5230.040	5150 to 5250	Pass
			30	3.3	5230.040	5150 to 5250	Pass
			40	3.3	5230.080	5150 to 5250	Pass
			50	3.3	5230.080	5150 to 5250	Pass
		5755	20	2.97	5755.080	5725 to 5850	Pass



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				3.3	5755.080	5725 to 5850	Pass
				3.63	5755.120	5725 to 5850	Pass
				-30	5755.080	5725 to 5850	Pass
				-20	5755.080	5725 to 5850	Pass
				-10	5755.080	5725 to 5850	Pass
				0	5755.080	5725 to 5850	Pass
				10	5755.080	5725 to 5850	Pass
				30	5755.080	5725 to 5850	Pass
				40	5755.120	5725 to 5850	Pass
				50	5755.120	5725 to 5850	Pass
		5795	20	2.97	5795.080	5725 to 5850	Pass
				3.3	5795.080	5725 to 5850	Pass
				3.63	5795.080	5725 to 5850	Pass
			-30	3.3	5795.120	5725 to 5850	Pass
				-20	5795.080	5725 to 5850	Pass
				-10	5795.080	5725 to 5850	Pass
			0	3.3	5795.080	5725 to 5850	Pass
				10	5795.080	5725 to 5850	Pass
				30	5795.040	5725 to 5850	Pass
			40	3.3	5795.080	5725 to 5850	Pass
				50	5795.120	5725 to 5850	Pass
802.11ac (VHT20)	MIMO	5180	20	2.97	5180.020	5150 to 5250	Pass
				3.3	5180.060	5150 to 5250	Pass
				3.63	5180.040	5150 to 5250	Pass
			-30	3.3	5180.040	5150 to 5250	Pass
				-20	5180.020	5150 to 5250	Pass
				-10	5180.040	5150 to 5250	Pass
			0	3.3	5180.020	5150 to 5250	Pass
				10	5180.020	5150 to 5250	Pass
				30	5180.020	5150 to 5250	Pass
			40	3.3	5180.020	5150 to 5250	Pass
				50	5180.040	5150 to 5250	Pass
		5200	20	2.97	5200.020	5150 to 5250	Pass
				3.3	5200.060	5150 to 5250	Pass
				3.63	5200.040	5150 to 5250	Pass
			-30	3.3	5200.000	5150 to 5250	Pass
				-20	5200.040	5150 to 5250	Pass
				-10	5200.040	5150 to 5250	Pass
			0	3.3	5200.060	5150 to 5250	Pass
				10	5200.020	5150 to 5250	Pass
				30	5200.020	5150 to 5250	Pass
			40	3.3	5200.040	5150 to 5250	Pass
				50	5200.040	5150 to 5250	Pass
		5240	20	2.97	5240.040	5150 to 5250	Pass
				3.3	5240.000	5150 to 5250	Pass
				3.63	5240.040	5150 to 5250	Pass
			-30	3.3	5240.020	5150 to 5250	Pass
				-20	5240.020	5150 to 5250	Pass
				-10	5240.040	5150 to 5250	Pass
			0	3.3	5240.040	5150 to 5250	Pass
				10	5240.040	5150 to 5250	Pass
				30	5240.020	5150 to 5250	Pass
			40	3.3	5240.020	5150 to 5250	Pass
				50	5240.040	5150 to 5250	Pass



Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

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		5745	20	2.97	5745.020	5725 to 5850	Pass
				3.3	5745.040	5725 to 5850	Pass
				3.63	5745.040	5725 to 5850	Pass
			-30	3.3	5745.040	5725 to 5850	Pass
			-20	3.3	5745.040	5725 to 5850	Pass
			-10	3.3	5745.060	5725 to 5850	Pass
			0	3.3	5745.060	5725 to 5850	Pass
			10	3.3	5745.060	5725 to 5850	Pass
			30	3.3	5745.060	5725 to 5850	Pass
			40	3.3	5745.040	5725 to 5850	Pass
			50	3.3	5745.040	5725 to 5850	Pass
		5785	20	2.97	5785.040	5725 to 5850	Pass
				3.3	5785.020	5725 to 5850	Pass
				3.63	5785.020	5725 to 5850	Pass
			-30	3.3	5785.040	5725 to 5850	Pass
			-20	3.3	5785.060	5725 to 5850	Pass
			-10	3.3	5785.040	5725 to 5850	Pass
			0	3.3	5785.040	5725 to 5850	Pass
			10	3.3	5785.040	5725 to 5850	Pass
			30	3.3	5785.020	5725 to 5850	Pass
			40	3.3	5785.060	5725 to 5850	Pass
			50	3.3	5785.020	5725 to 5850	Pass
		5825	20	2.97	5825.040	5725 to 5850	Pass
				3.3	5825.040	5725 to 5850	Pass
				3.63	5825.040	5725 to 5850	Pass
			-30	3.3	5825.040	5725 to 5850	Pass
			-20	3.3	5825.020	5725 to 5850	Pass
			-10	3.3	5825.060	5725 to 5850	Pass
			0	3.3	5825.020	5725 to 5850	Pass
			10	3.3	5825.040	5725 to 5850	Pass
			30	3.3	5825.060	5725 to 5850	Pass
			40	3.3	5825.020	5725 to 5850	Pass
			50	3.3	5825.000	5725 to 5850	Pass
802.11ac (VHT40)	MIMO	5190	20	2.97	5190.080	5150 to 5250	Pass
				3.3	5190.040	5150 to 5250	Pass
				3.63	5190.080	5150 to 5250	Pass
			-30	3.3	5190.080	5150 to 5250	Pass
			-20	3.3	5190.080	5150 to 5250	Pass
			-10	3.3	5190.040	5150 to 5250	Pass
			0	3.3	5190.080	5150 to 5250	Pass
			10	3.3	5190.080	5150 to 5250	Pass
			30	3.3	5190.040	5150 to 5250	Pass
			40	3.3	5190.000	5150 to 5250	Pass
			50	3.3	5190.080	5150 to 5250	Pass
		5230	20	2.97	5230.080	5150 to 5250	Pass
				3.3	5230.080	5150 to 5250	Pass
				3.63	5230.080	5150 to 5250	Pass
			-30	3.3	5230.040	5150 to 5250	Pass
			-20	3.3	5230.080	5150 to 5250	Pass
			-10	3.3	5230.080	5150 to 5250	Pass
			0	3.3	5230.080	5150 to 5250	Pass
			10	3.3	5230.080	5150 to 5250	Pass
			30	3.3	5230.120	5150 to 5250	Pass
			40	3.3	5230.080	5150 to 5250	Pass



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		5755	50	3.3	5230.080	5150 to 5250	Pass
			20	2.97	5755.080	5725 to 5850	Pass
				3.3	5755.080	5725 to 5850	Pass
				3.63	5755.080	5725 to 5850	Pass
				3.3	5755.040	5725 to 5850	Pass
			-30	3.3	5755.040	5725 to 5850	Pass
			-20	3.3	5755.080	5725 to 5850	Pass
			-10	3.3	5755.080	5725 to 5850	Pass
			0	3.3	5755.080	5725 to 5850	Pass
			10	3.3	5755.080	5725 to 5850	Pass
			30	3.3	5755.080	5725 to 5850	Pass
			40	3.3	5755.080	5725 to 5850	Pass
			50	3.3	5755.080	5725 to 5850	Pass
		5795	20	2.97	5795.080	5725 to 5850	Pass
				3.3	5795.080	5725 to 5850	Pass
				3.63	5795.040	5725 to 5850	Pass
			-30	3.3	5795.080	5725 to 5850	Pass
			-20	3.3	5795.000	5725 to 5850	Pass
			-10	3.3	5795.120	5725 to 5850	Pass
			0	3.3	5795.080	5725 to 5850	Pass
			10	3.3	5795.080	5725 to 5850	Pass
			30	3.3	5795.120	5725 to 5850	Pass
			40	3.3	5795.080	5725 to 5850	Pass
			50	3.3	5795.080	5725 to 5850	Pass
802.11ac (VHT80)	MIMO	5210	20	2.97	5210.075	5150 to 5250	Pass
				3.3	5210.075	5150 to 5250	Pass
				3.63	5210.075	5150 to 5250	Pass
			-30	3.3	5210.075	5150 to 5250	Pass
			-20	3.3	5210.150	5150 to 5250	Pass
			-10	3.3	5210.075	5150 to 5250	Pass
			0	3.3	5210.075	5150 to 5250	Pass
			10	3.3	5210.150	5150 to 5250	Pass
			30	3.3	5210.075	5150 to 5250	Pass
			40	3.3	5210.075	5150 to 5250	Pass
			50	3.3	5210.150	5150 to 5250	Pass
		5775	20	2.97	5775.075	5725 to 5850	Pass
				3.3	5775.075	5725 to 5850	Pass
				3.63	5775.075	5725 to 5850	Pass
			-30	3.3	5775.075	5725 to 5850	Pass
			-20	3.3	5775.075	5725 to 5850	Pass
			-10	3.3	5775.075	5725 to 5850	Pass
			0	3.3	5775.075	5725 to 5850	Pass
			10	3.3	5775.150	5725 to 5850	Pass
			30	3.3	5775.150	5725 to 5850	Pass
			40	3.3	5775.075	5725 to 5850	Pass
			50	3.3	5775.075	5725 to 5850	Pass



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