

Appendix B for SHCR220100001502

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	1.396	1.495	93.38	0.30	0.03
		5200	1.396	1.494	93.44	0.29	0.03
		5240	1.396	1.495	93.38	0.30	0.03
		5260	1.396	1.495	93.38	0.30	0.03
		5300	1.396	1.495	93.38	0.30	0.03
		5320	1.396	1.495	93.38	0.30	0.03
		5500	1.396	1.495	93.38	0.30	0.03
		5580	1.396	1.495	93.38	0.30	0.03
		5700	1.395	1.494	93.37	0.30	0.03
		5745	1.396	1.494	93.44	0.29	0.03
		5785	1.395	1.494	93.37	0.30	0.03
802.11n (HT20)	MIMO	5180	1.919	2.418	79.36	1.00	0.03
		5200	1.920	2.419	79.37	1.00	0.03
		5240	1.920	2.419	79.37	1.00	0.04
		5260	1.919	2.418	79.36	1.00	0.03
		5300	1.920	2.419	79.37	1.00	0.04
		5320	1.920	2.419	79.37	1.00	0.03
		5500	1.919	2.418	79.36	1.00	0.04
		5580	1.920	2.419	79.37	1.00	0.03
		5700	1.919	2.419	79.33	1.01	0.03
		5745	1.920	2.419	79.37	1.00	0.04
		5785	1.920	2.419	79.37	1.00	0.03
802.11n (HT40)	MIMO	5190	0.128	0.227	56.39	2.49	0.06
		5230	0.128	0.227	56.39	2.49	0.08
		5270	0.128	0.227	56.39	2.49	0.10
		5310	0.129	0.228	56.58	2.47	0.05
		5510	0.128	0.227	56.39	2.49	0.06
		5550	0.125	0.227	55.07	2.59	0.15
		5670	0.127	0.227	55.95	2.52	0.09
		5755	0.126	0.228	55.26	2.58	0.07
802.11ac (VHT20)	MIMO	5180	1.931	2.430	79.47	1.00	0.03
		5200	1.932	2.431	79.47	1.00	0.03
		5240	1.932	2.431	79.47	1.00	0.04
		5260	1.932	2.431	79.47	1.00	0.04
		5300	1.932	2.431	79.47	1.00	0.04
		5320	1.932	2.431	79.47	1.00	0.03
		5500	1.932	2.431	79.47	1.00	0.03
		5580	1.931	2.430	79.47	1.00	0.04
		5700	1.931	2.430	79.47	1.00	0.04

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		5745	1.931	2.431	79.43	1.00	0.03
		5785	1.932	2.431	79.47	1.00	0.04
		5825	1.931	2.430	79.47	1.00	0.03
802.11ac (VHT40)	MIMO	5190	1.543	2.043	75.53	1.22	0.04
		5230	1.544	2.043	75.58	1.22	0.00
		5270	1.543	2.043	75.53	1.22	0.00
		5310	1.543	2.043	75.53	1.22	0.00
		5510	1.543	2.043	75.53	1.22	0.00
		5550	1.544	2.044	75.54	1.22	0.00
		5670	1.544	2.043	75.58	1.22	0.04
		5755	1.544	2.044	75.54	1.22	0.05
802.11ac (VHT80)	MIMO	5795	1.543	2.044	75.49	1.22	0.06
		5210	0.460	0.959	47.97	3.19	0.03
		5290	0.460	0.960	47.92	3.20	0.03
		5530	0.460	0.959	47.97	3.19	0.05
		5610	0.460	0.959	47.97	3.19	0.03
		5775	0.459	0.959	47.86	3.20	0.02



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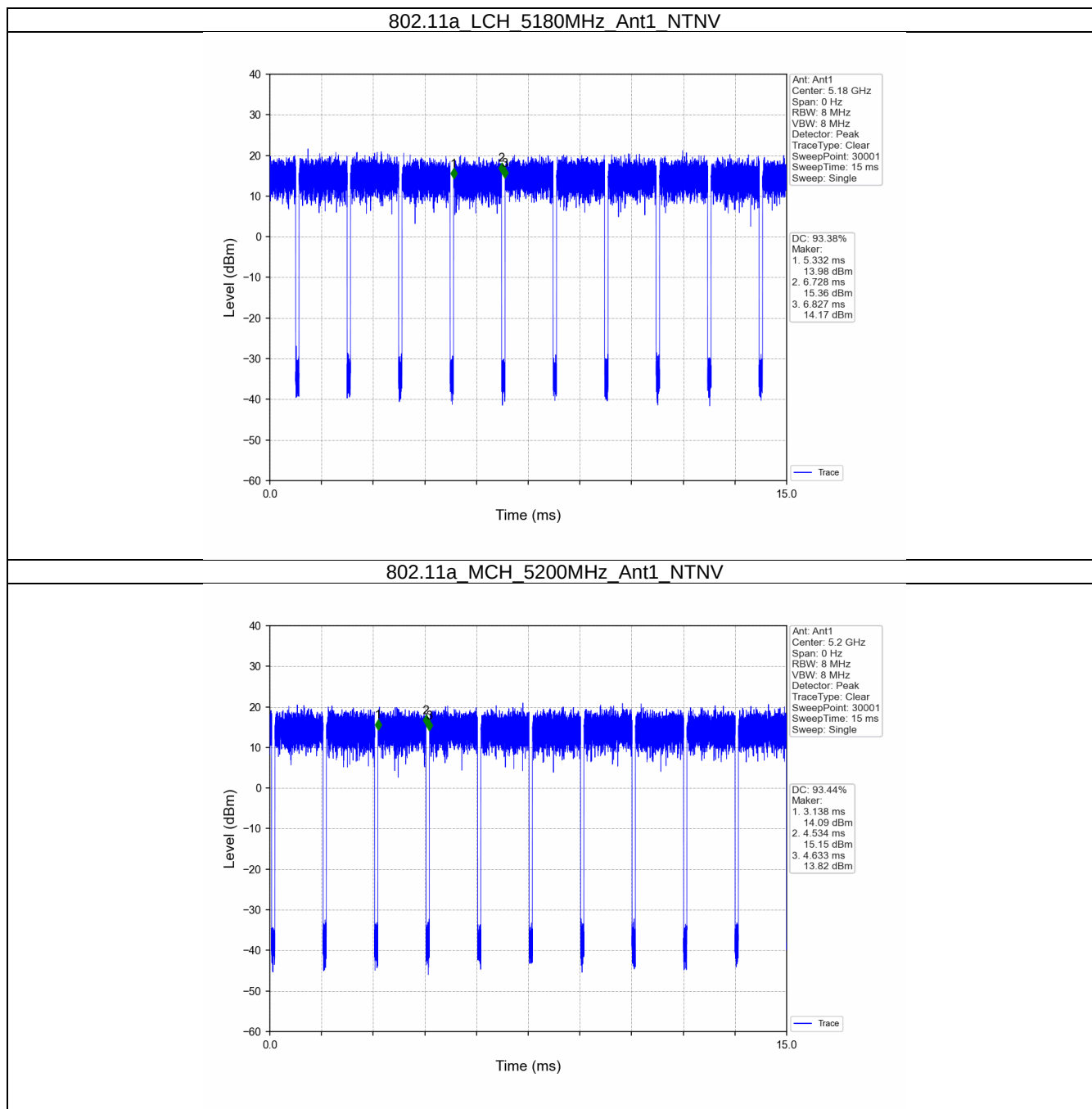
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1.1.2 Test Graph



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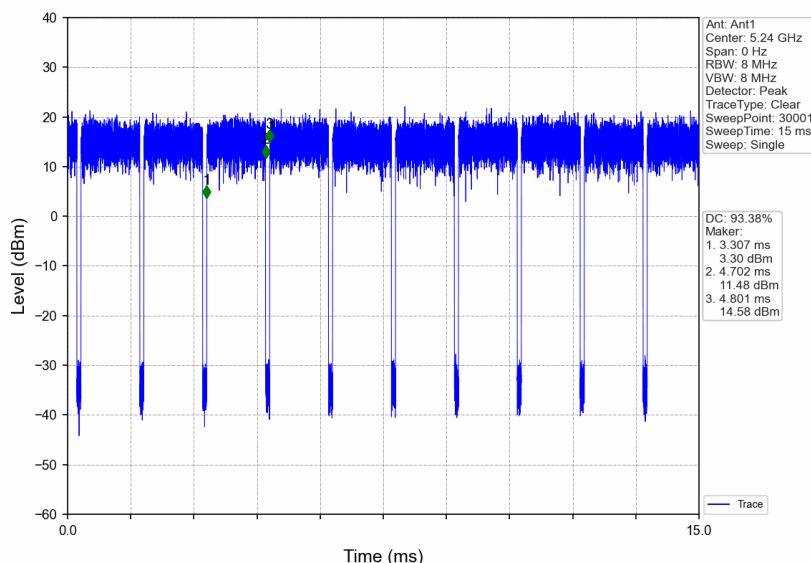
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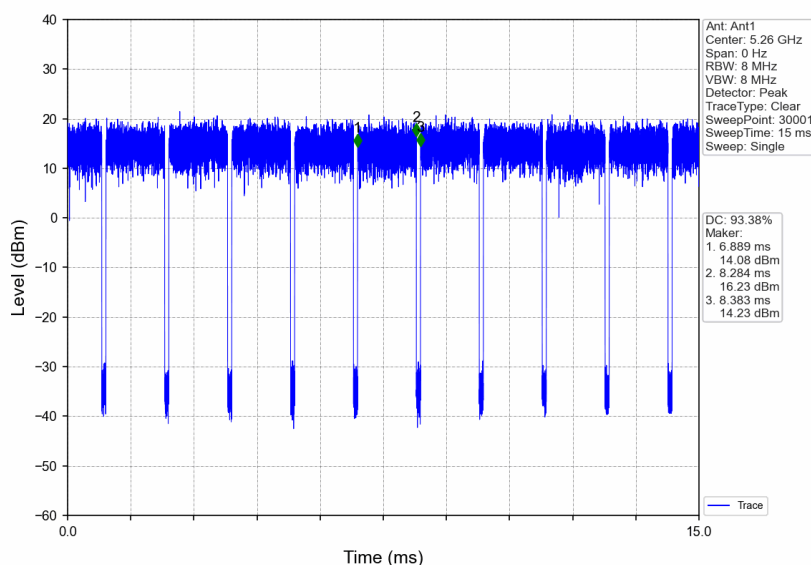
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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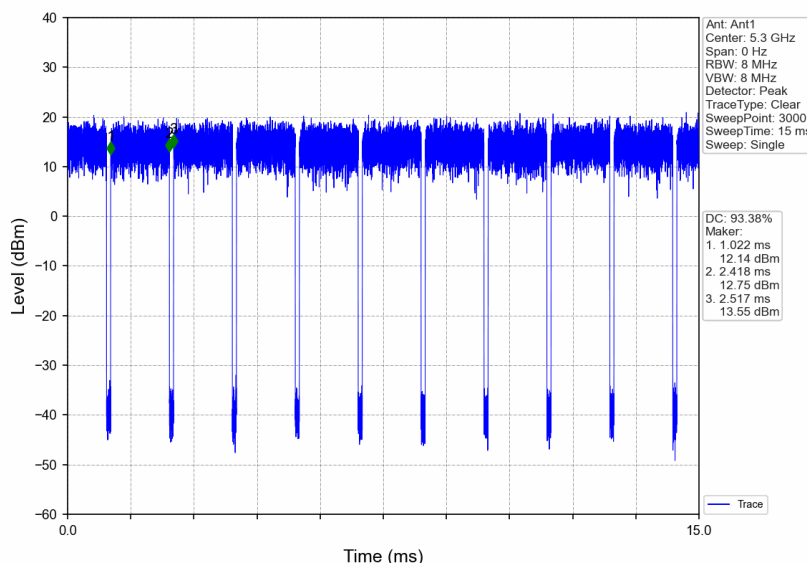
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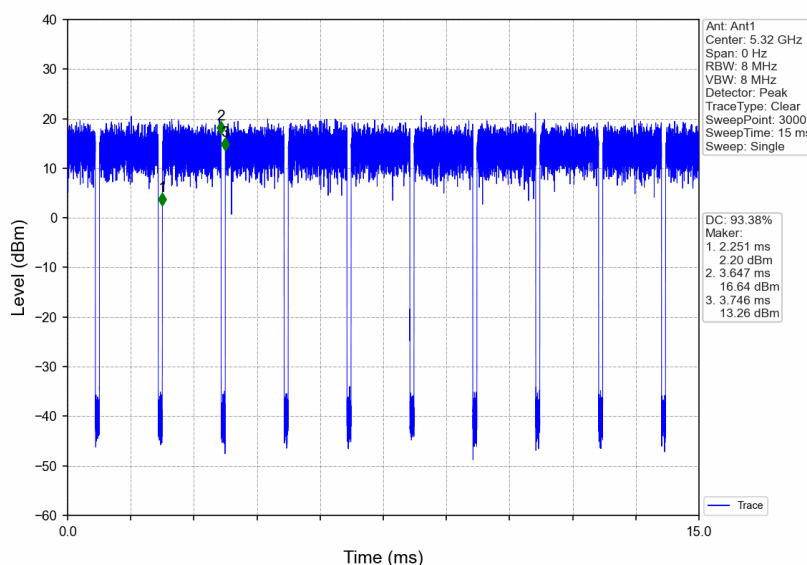
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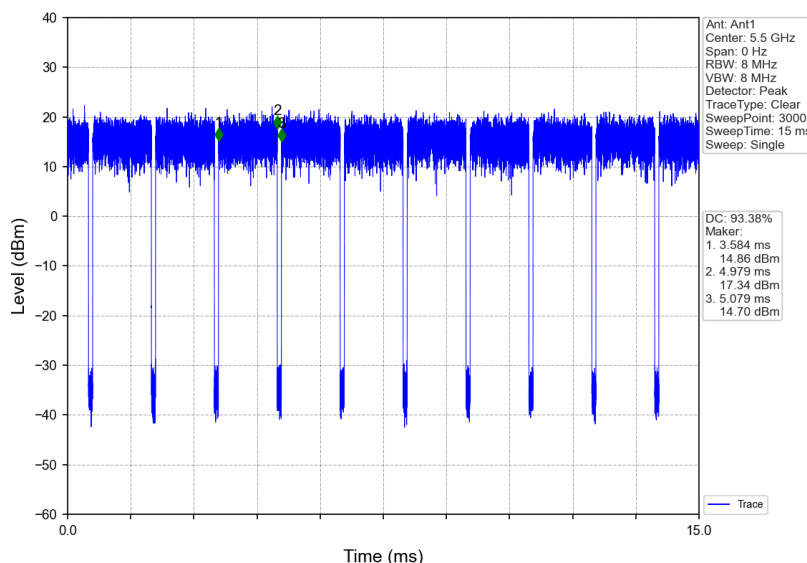
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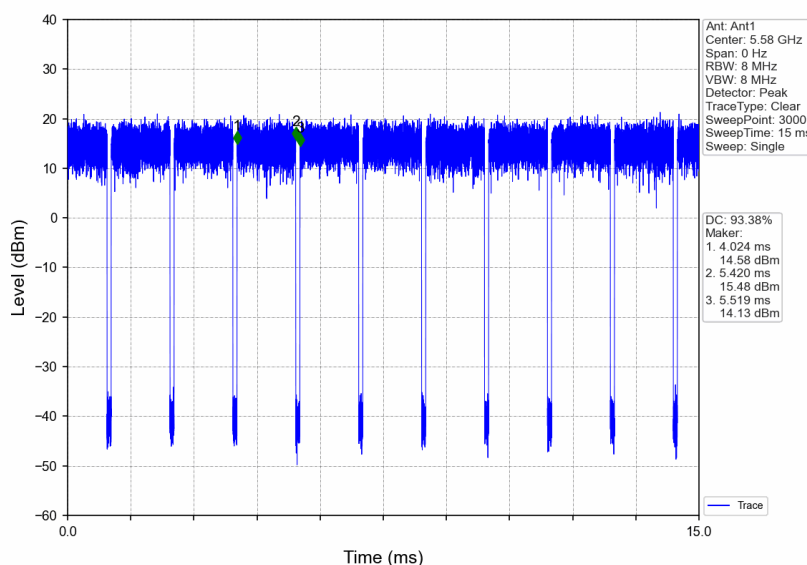
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802.11a_MCH_5580MHz_Ant1_NTNV



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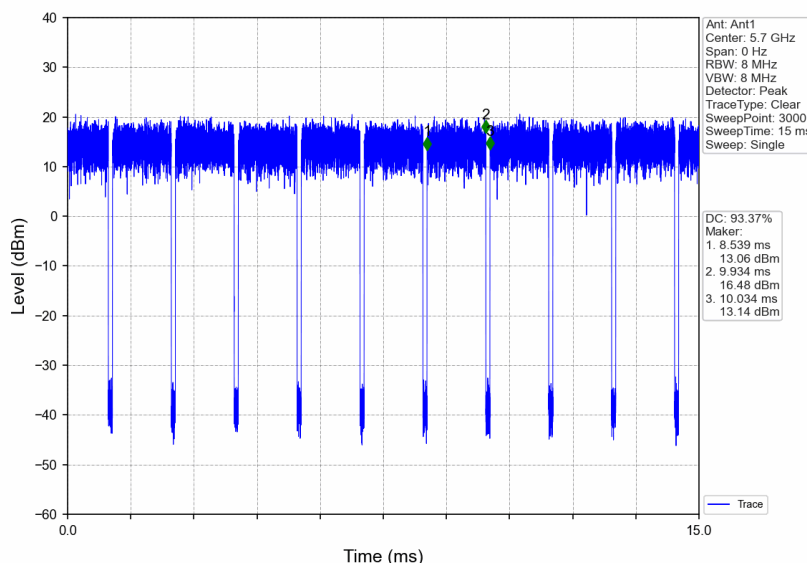
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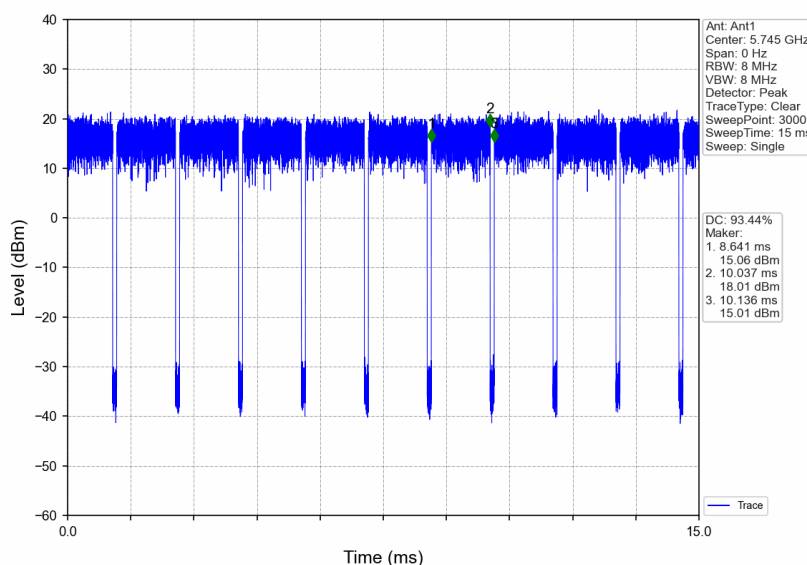
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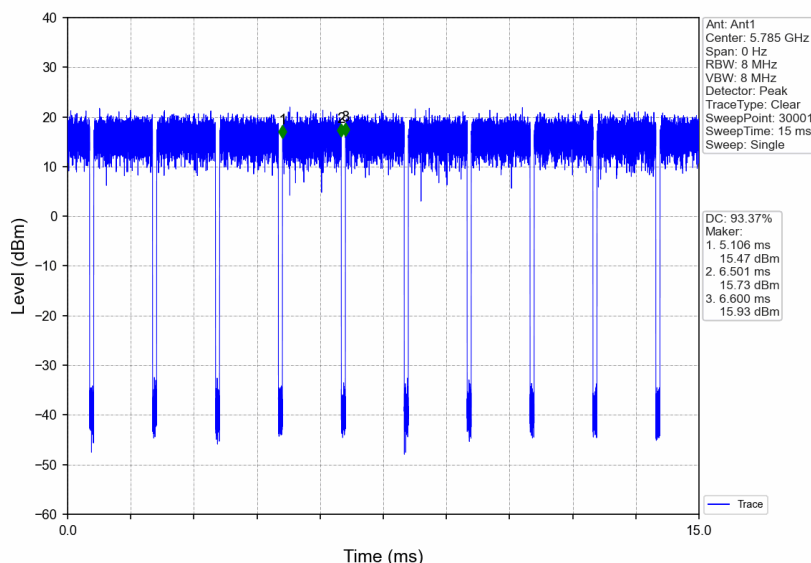
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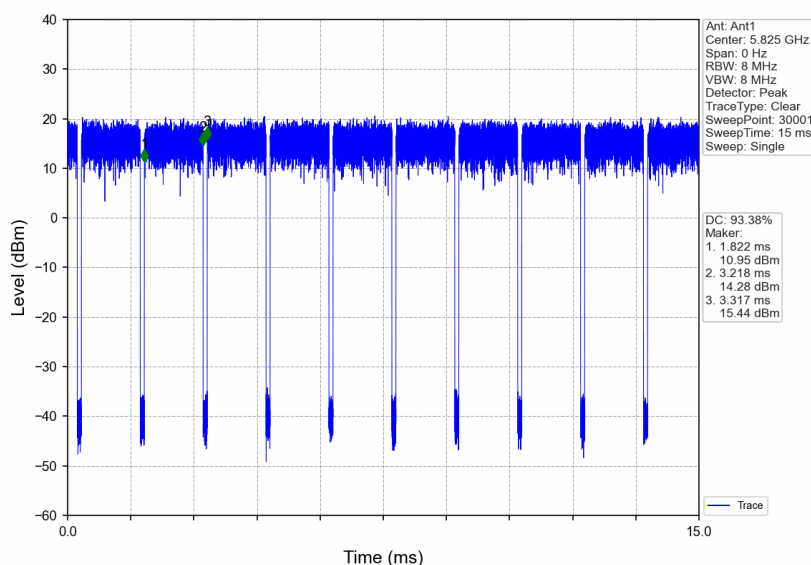
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802.11a_HCH_5825MHz_Ant1_NTNV



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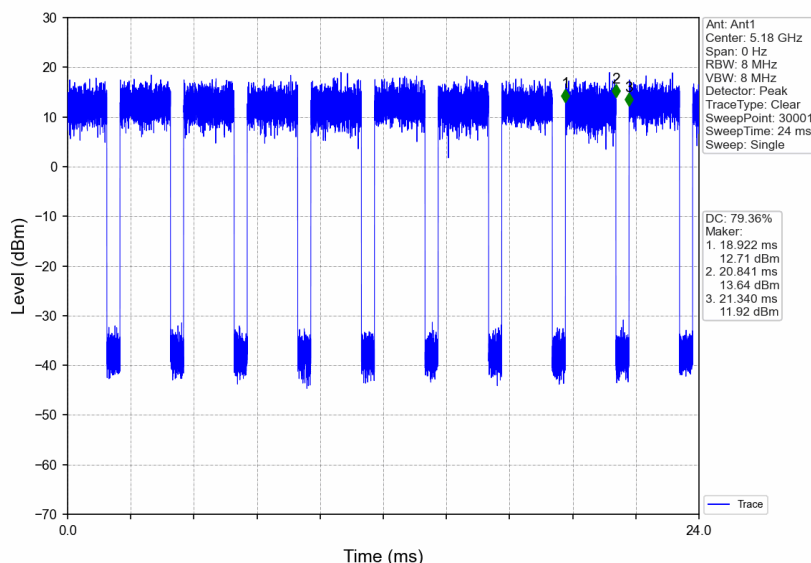
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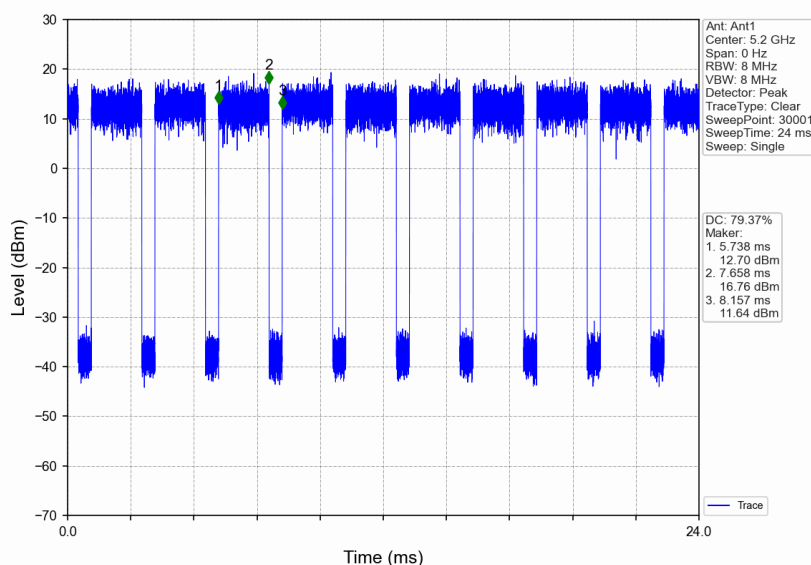
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802.11n(HT20) MCH_5200MHz_Ant1_NTNV



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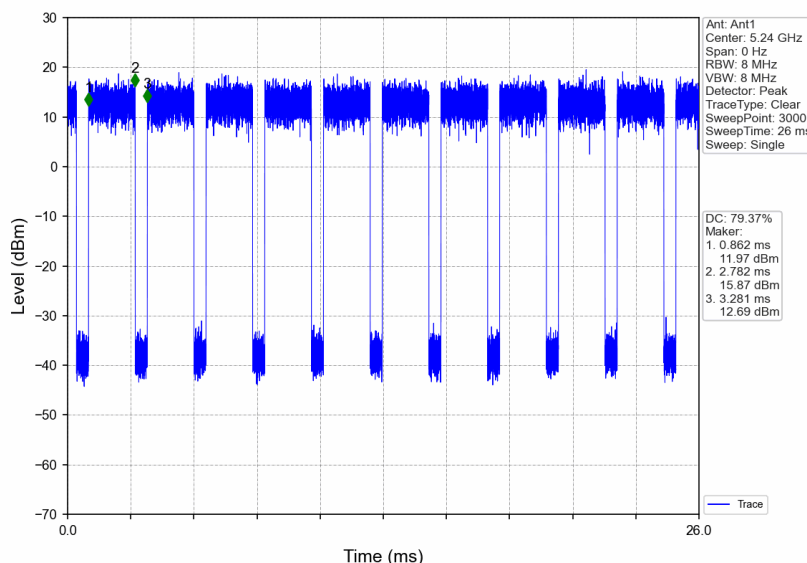
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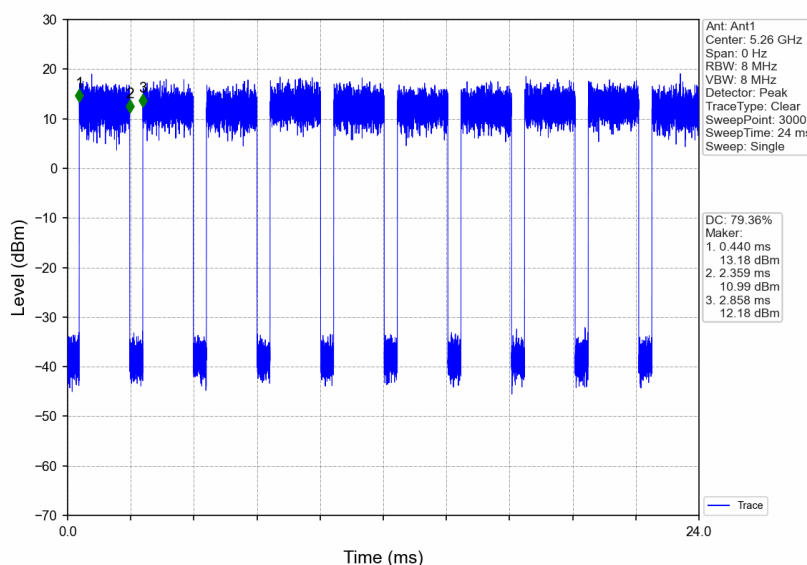
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



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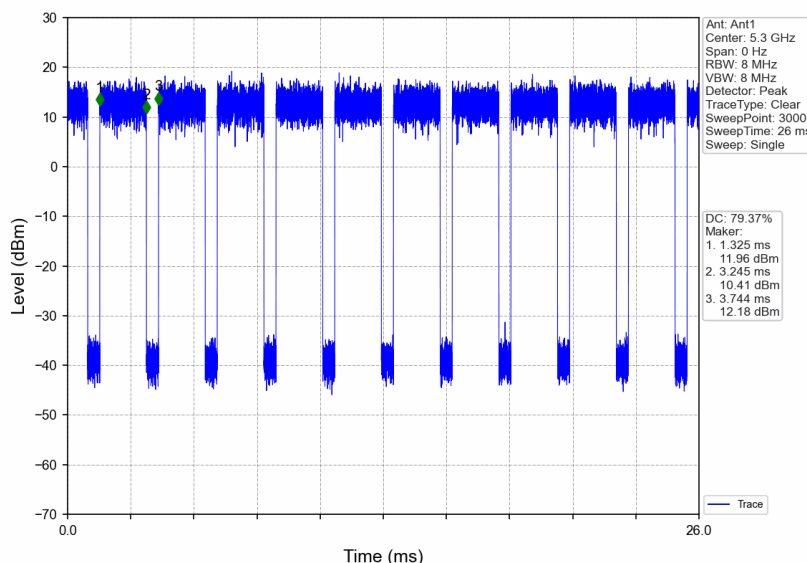
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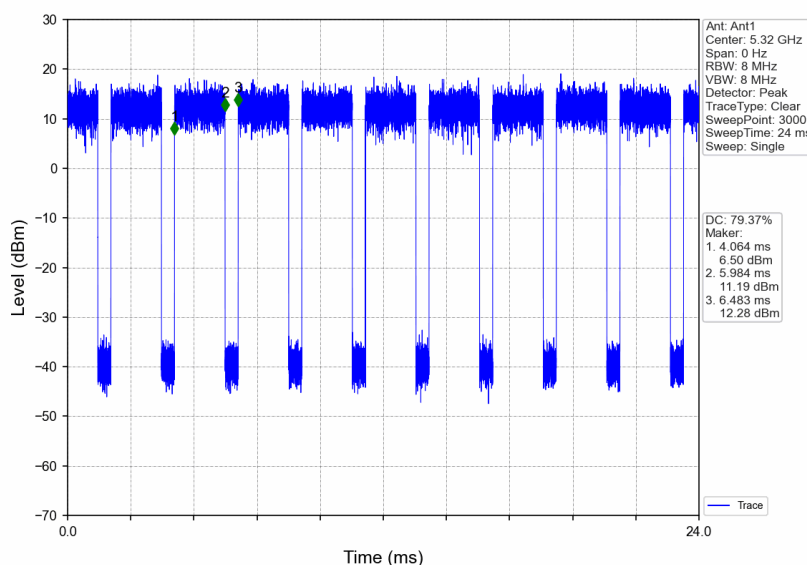
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802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



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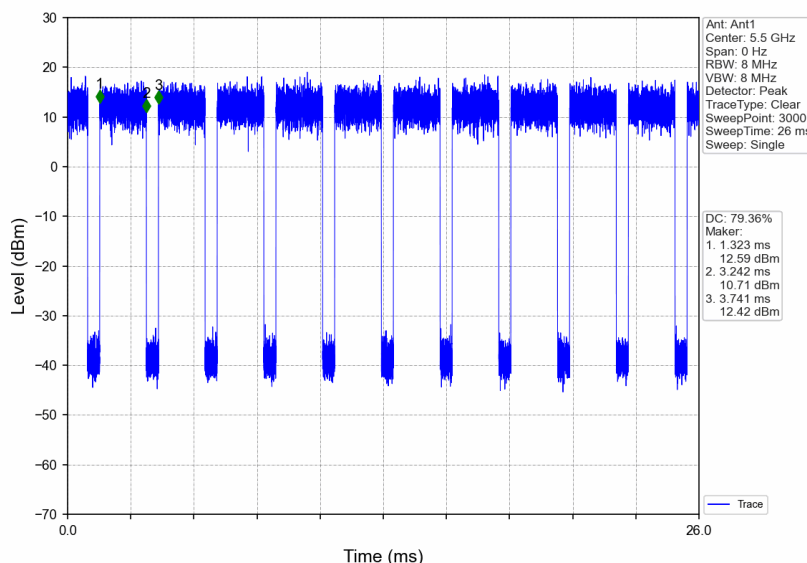
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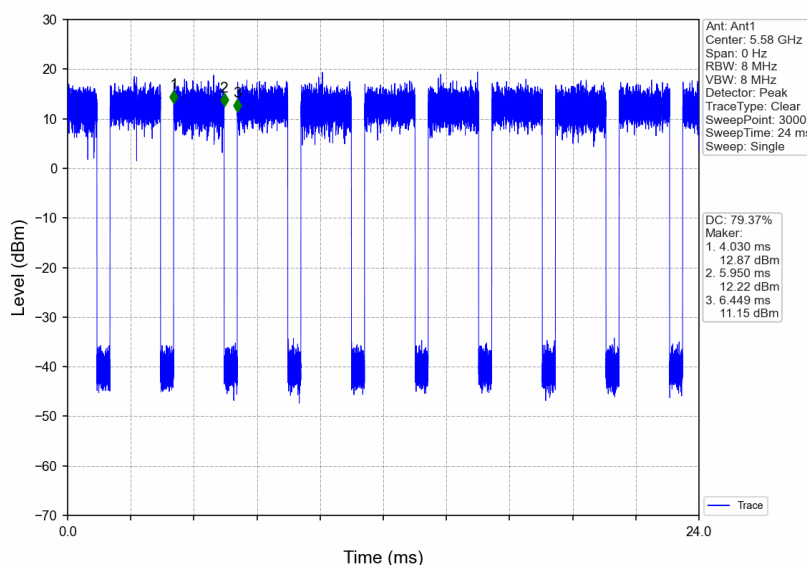
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802.11n(HT20) LCH_5500MHz_Ant1_NTNV



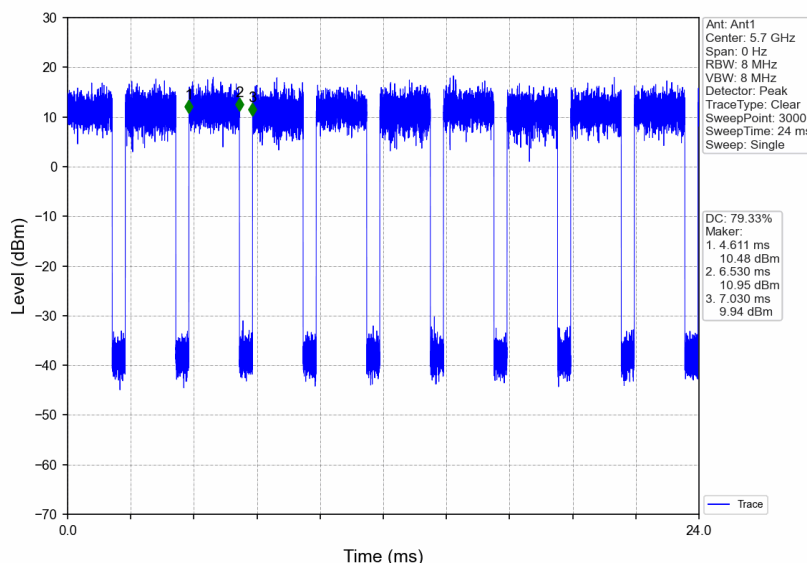
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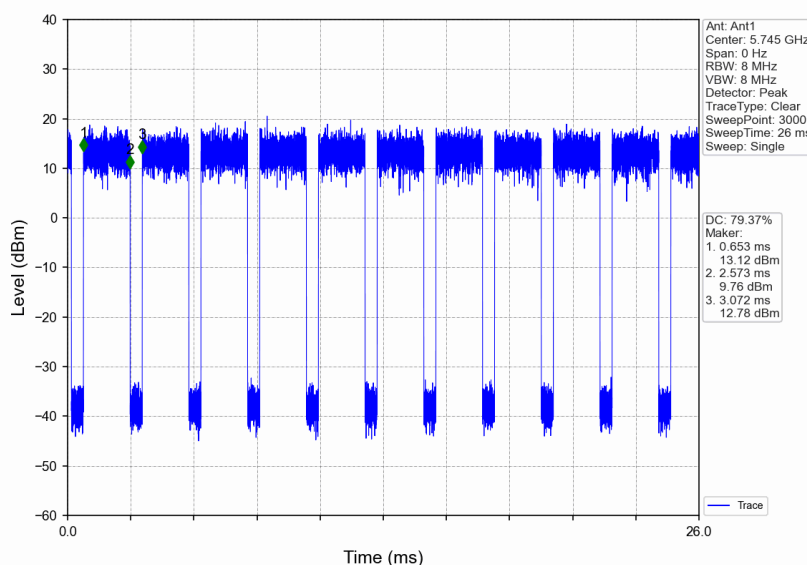
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



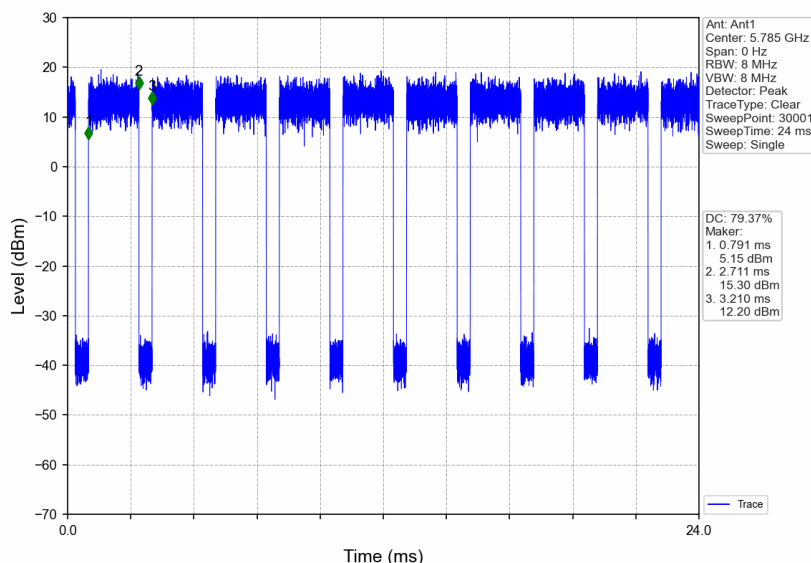
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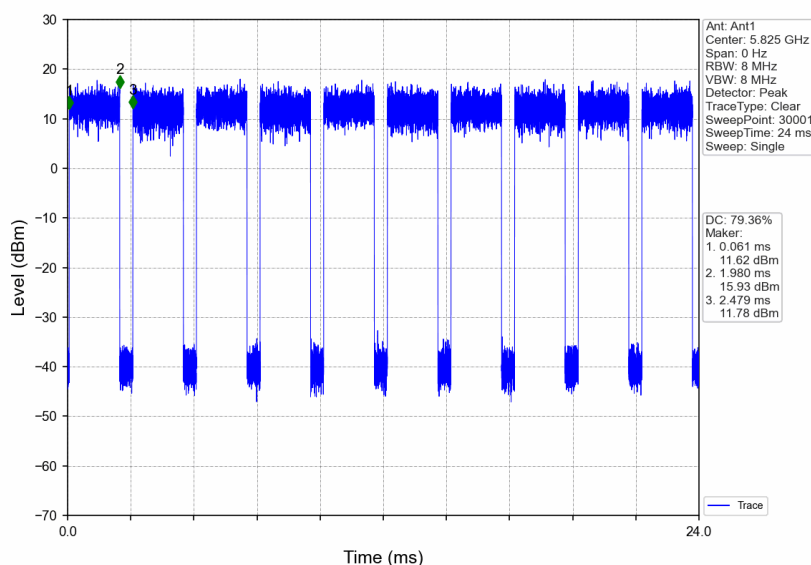
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



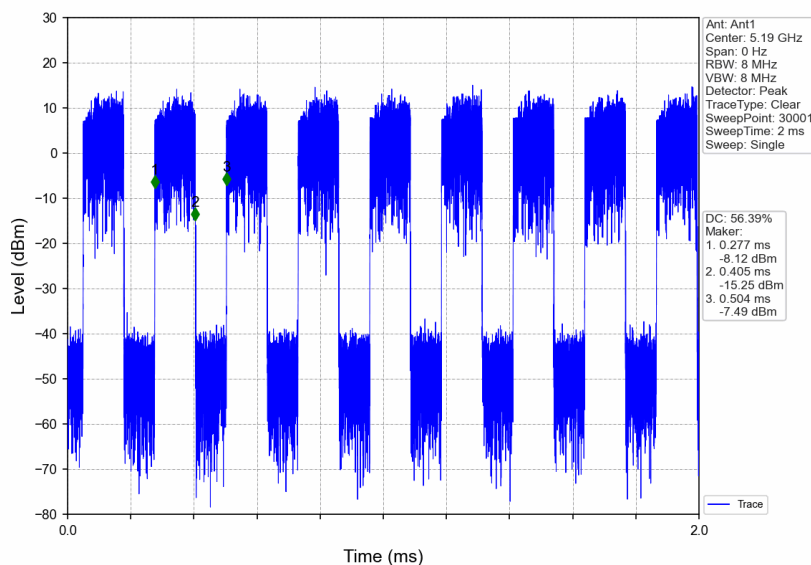
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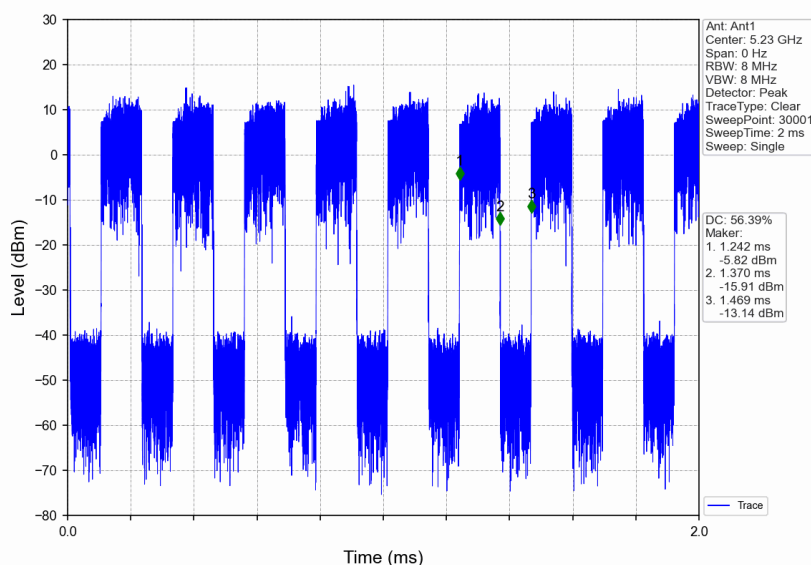
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802.11n(HT40) LCH 5190MHz_Ant1_NTNV



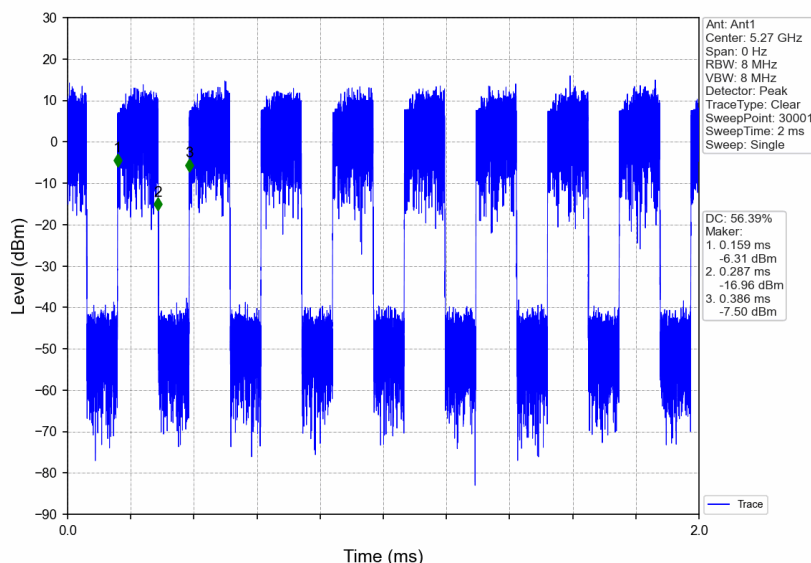
802.11n(HT40) HCH 5230MHz_Ant1_NTNV



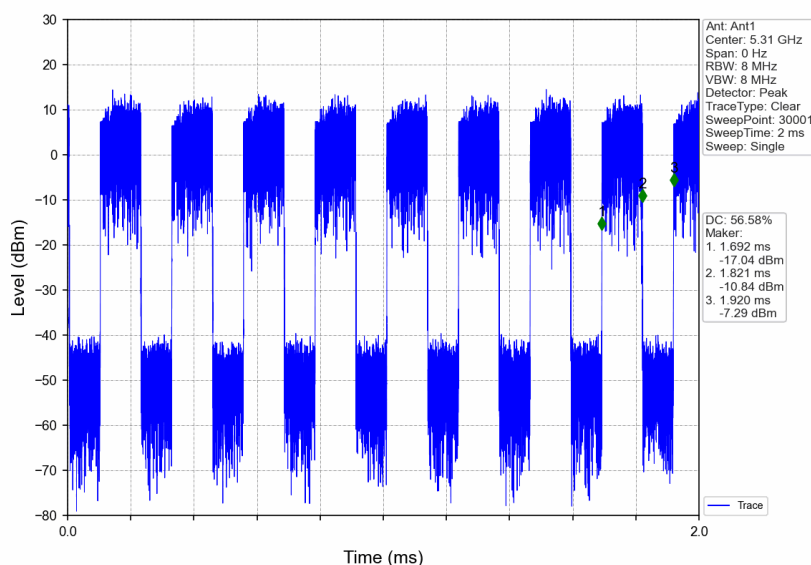
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802.11n(HT40) LCH 5270MHz Ant1 NTN



802.11n(HT40) HCH 5310MHz Ant1 NTN



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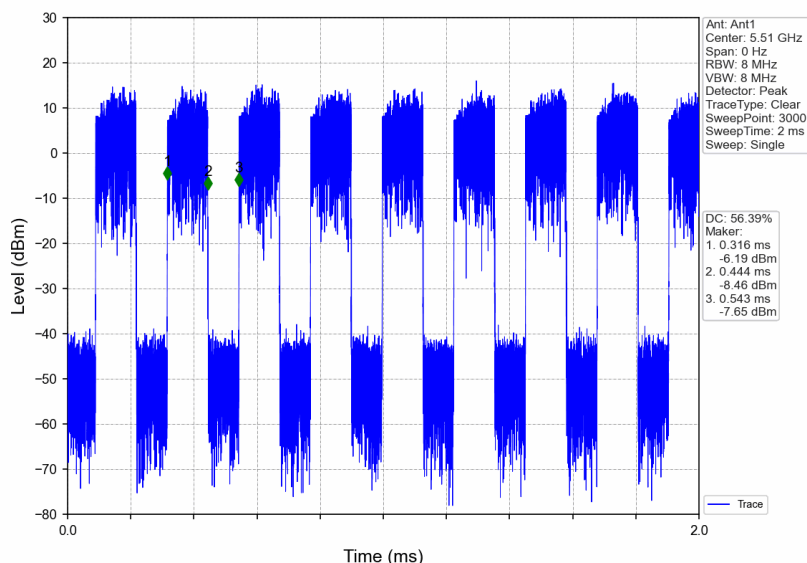
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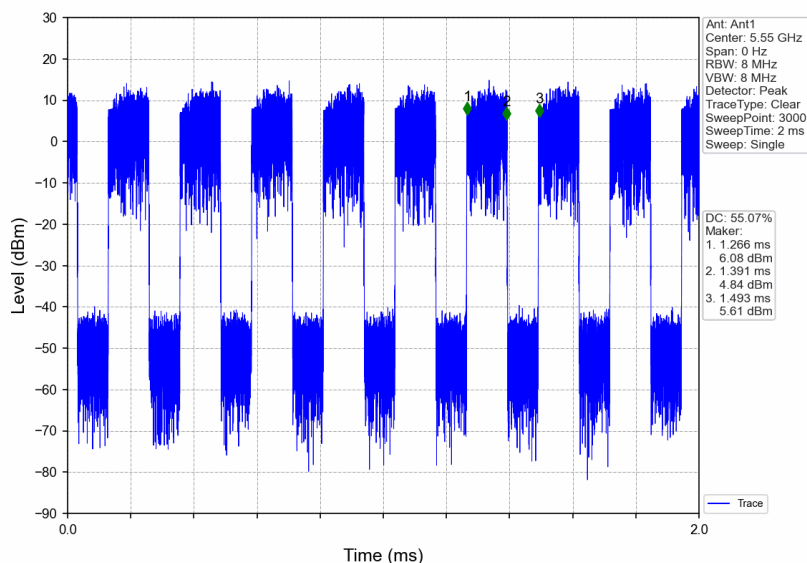
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802.11n(HT40) LCH 5510MHz Ant1 NTN



802.11n(HT40) MCH 5550MHz Ant1 NTN



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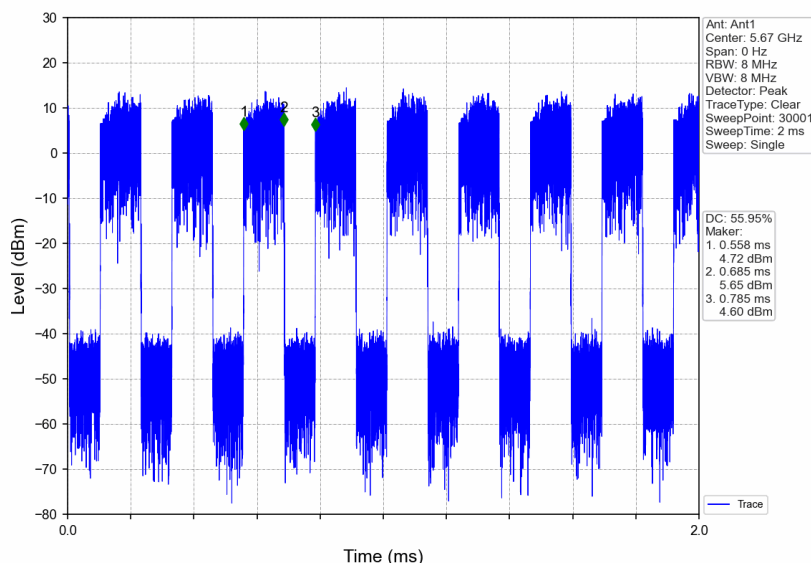
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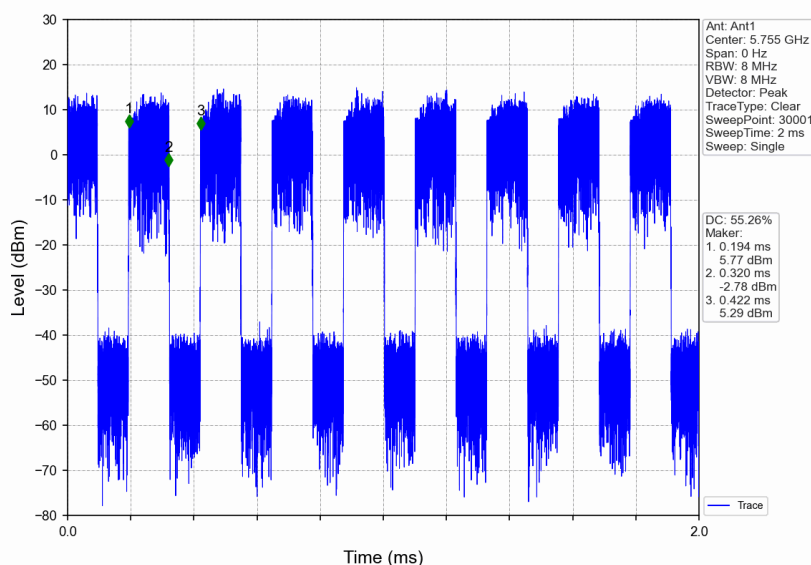
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802.11n(HT40) HCH 5670MHz Ant1 NTN



802.11n(HT40) LCH 5755MHz Ant1 NTN



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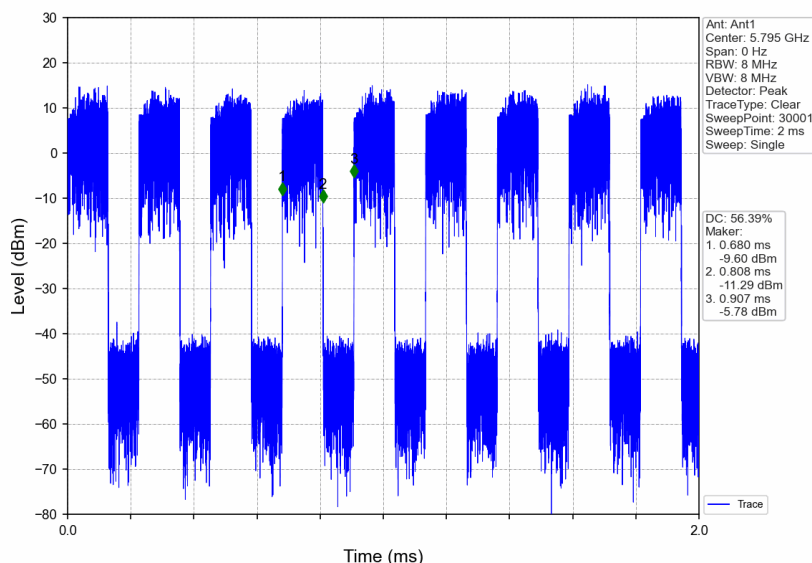
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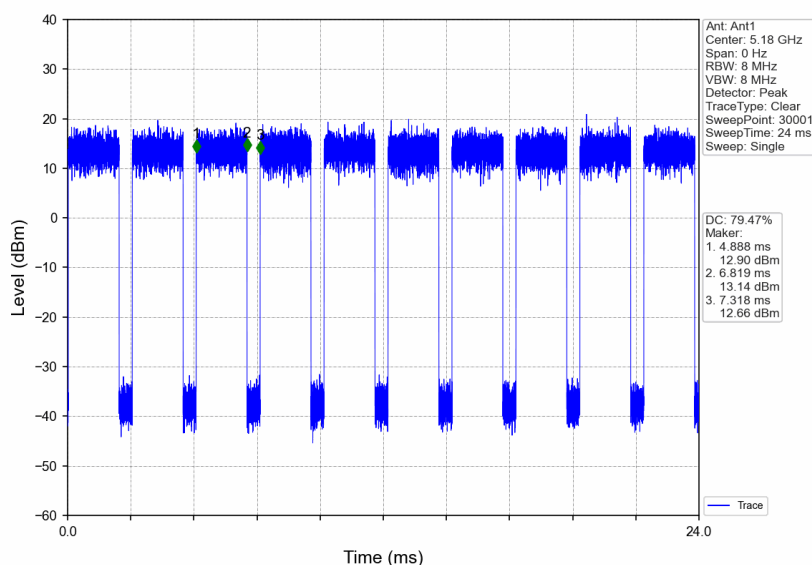
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802.11n(HT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT20) LCH 5180MHz Ant1 NTN



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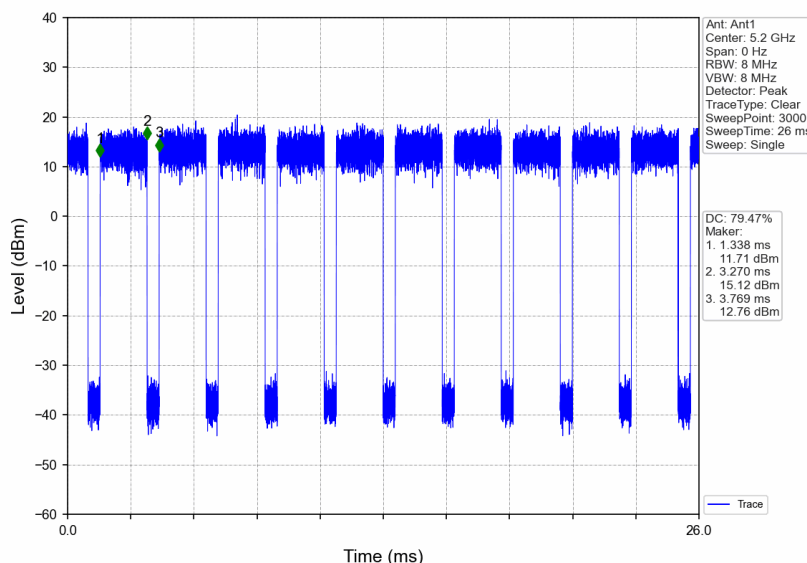
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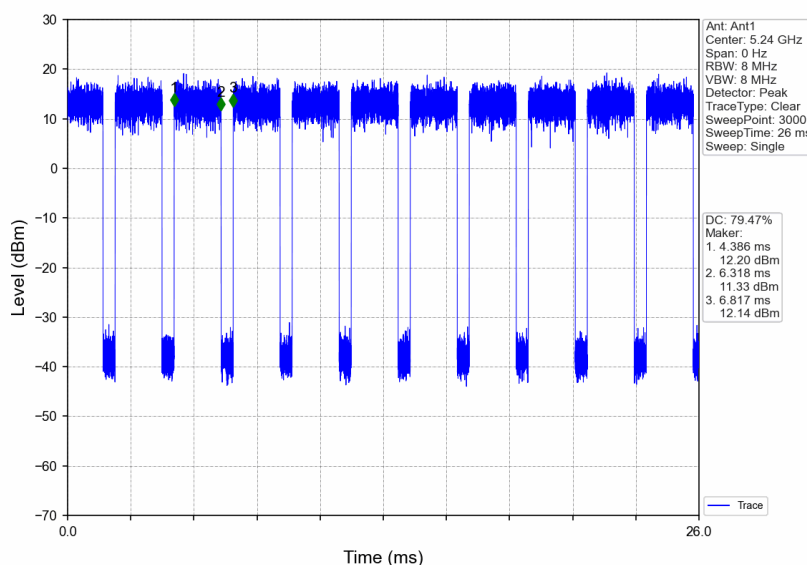
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802.11ac(VHT20) MCH 5200MHz_Ant1_NTNV



802.11ac(VHT20) HCH 5240MHz_Ant1_NTNV



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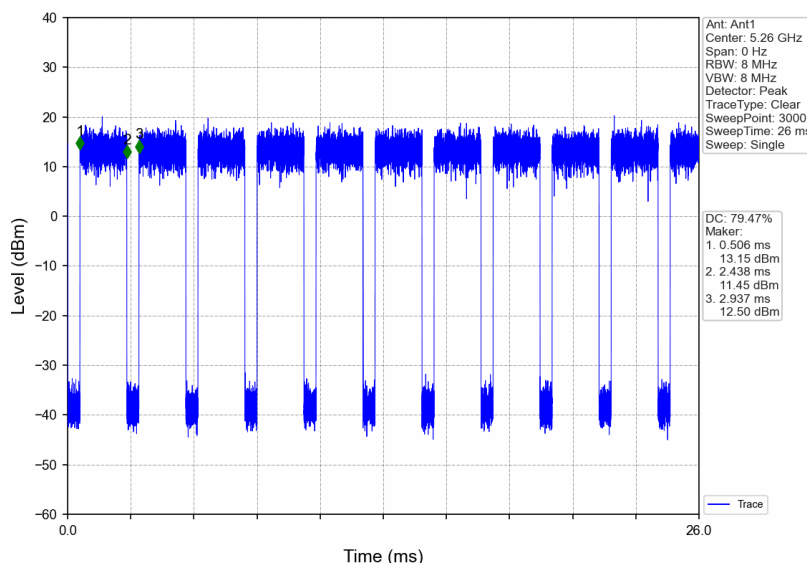
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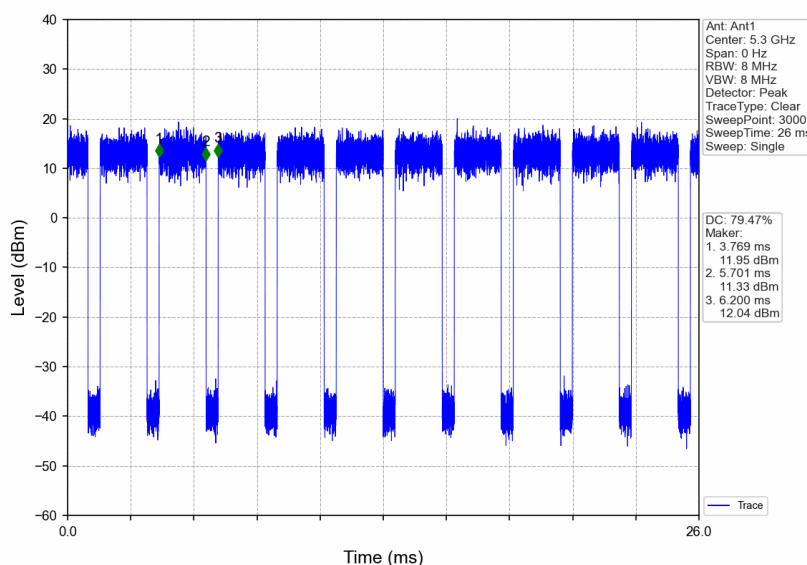
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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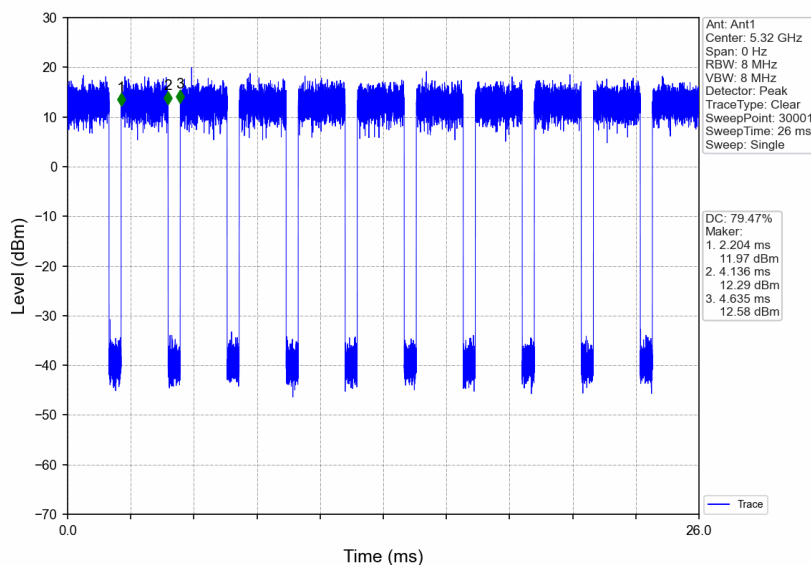
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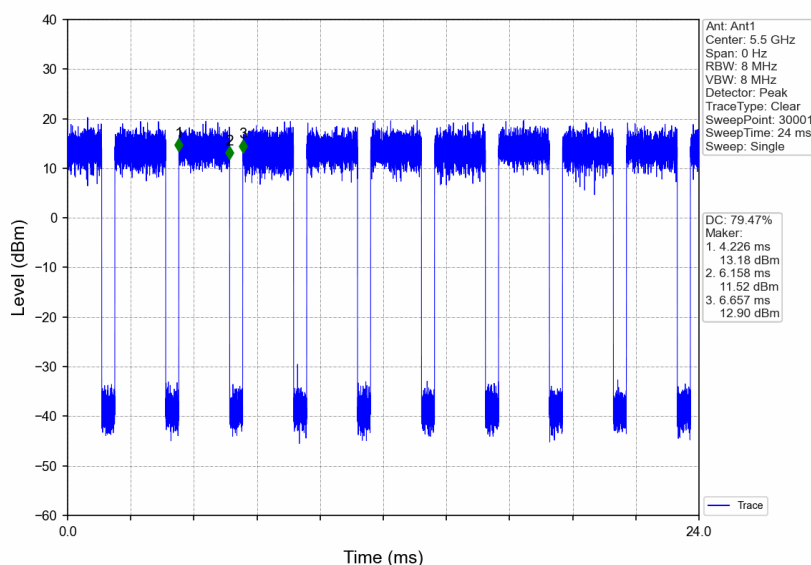
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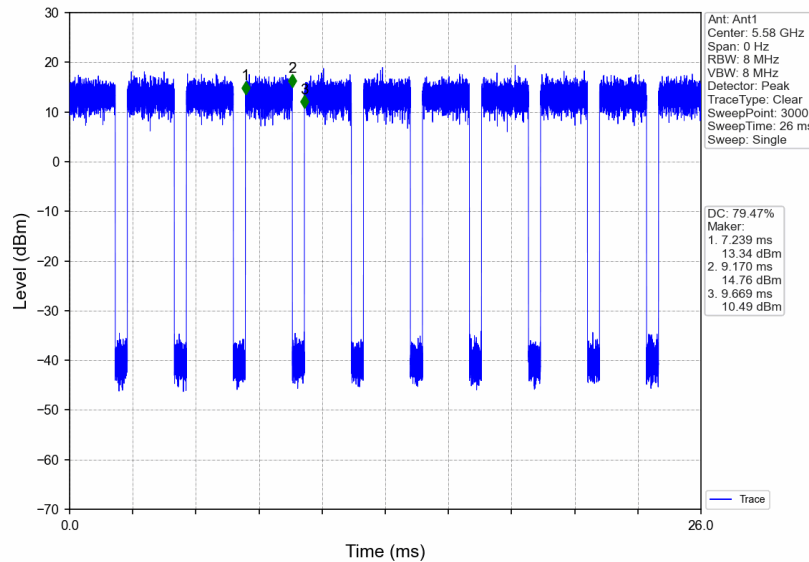
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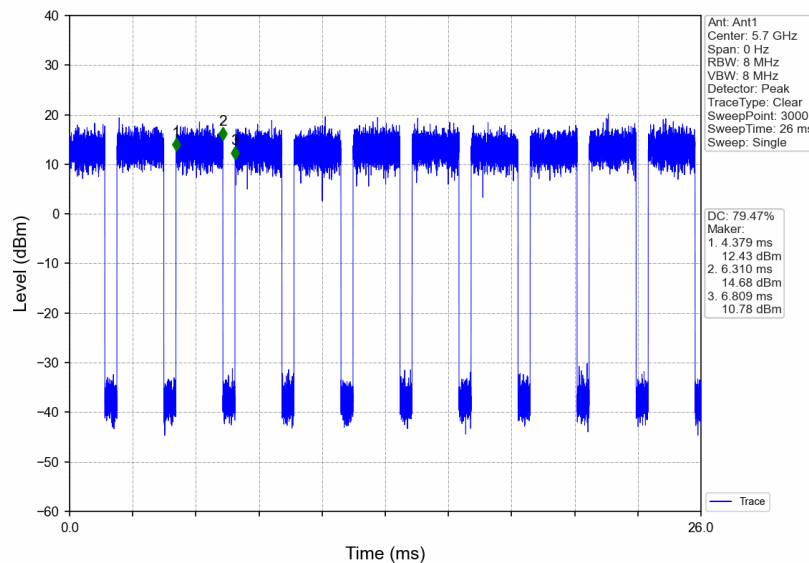
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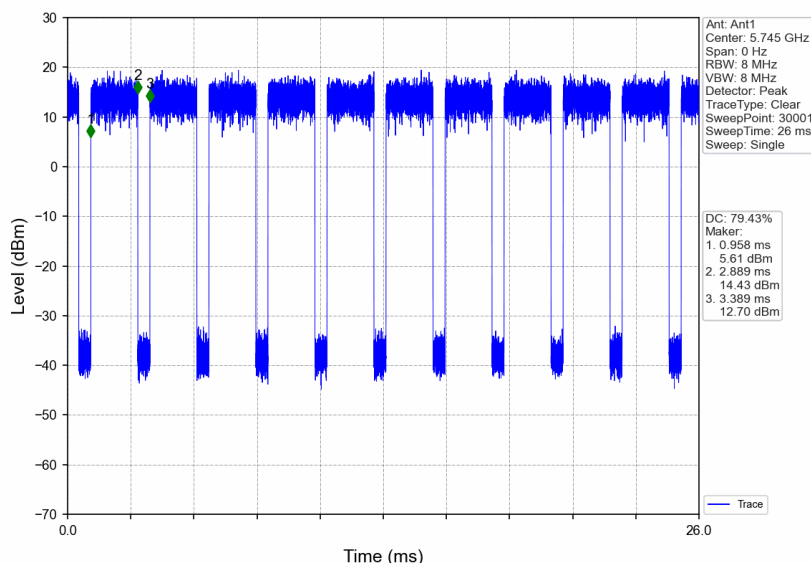
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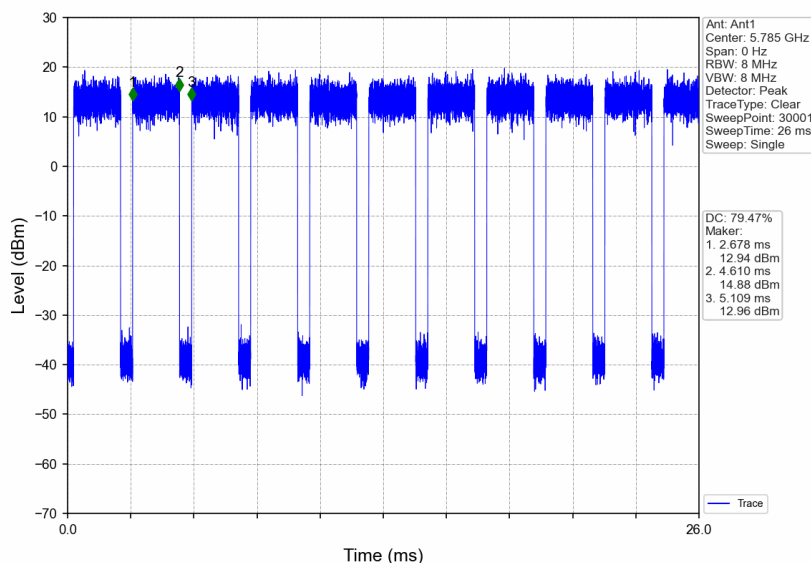
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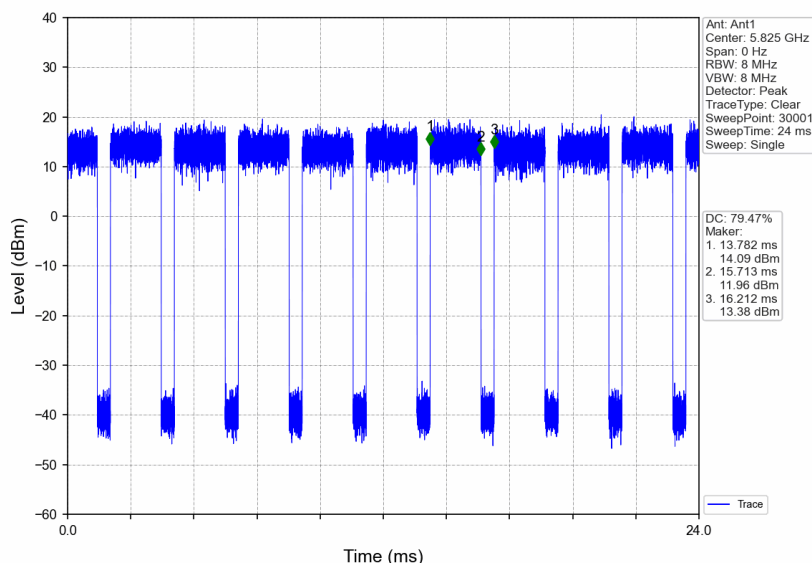
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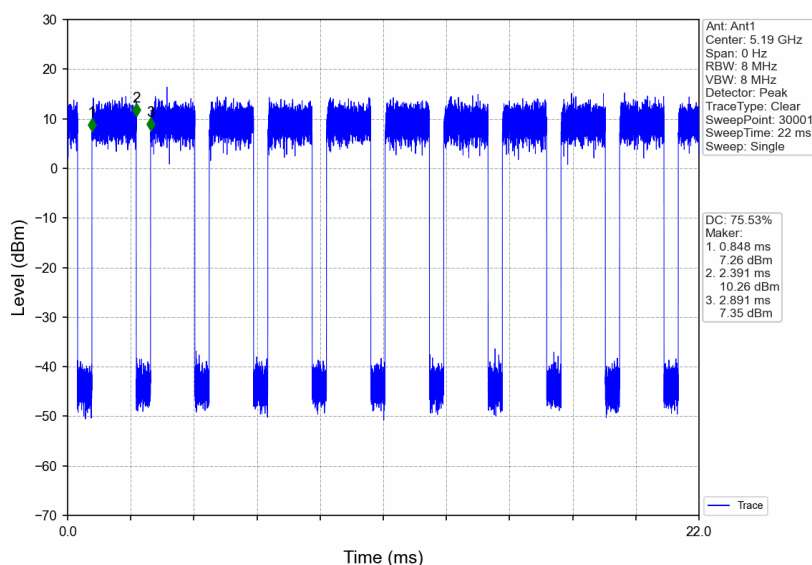
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802.11ac(VHT20) HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40) LCH_5190MHz_Ant1_NTNV



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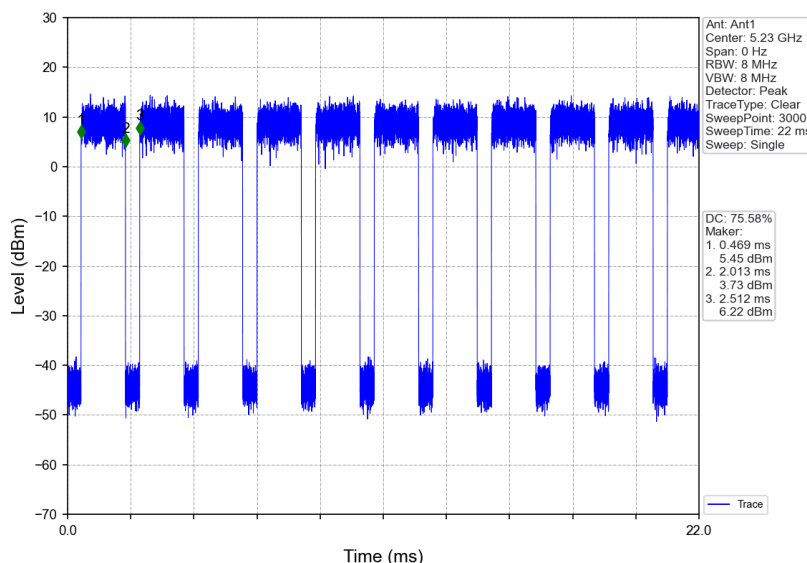
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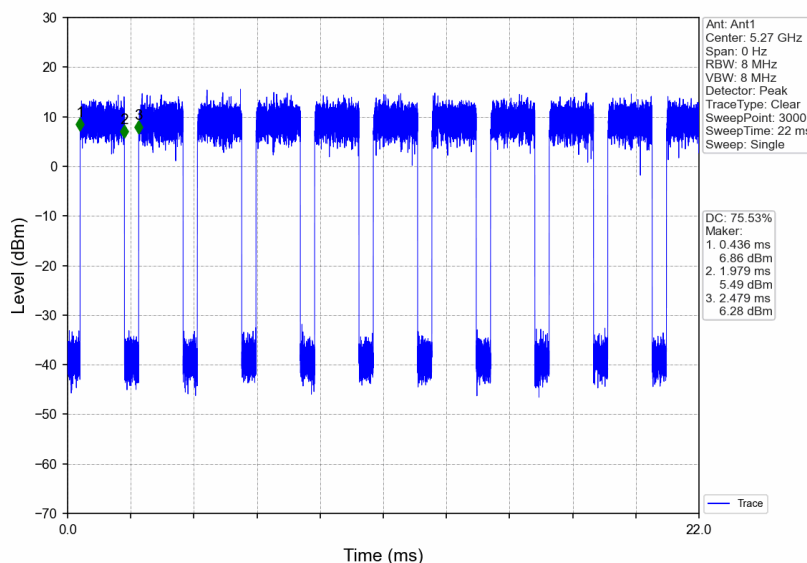
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802.11ac(VHT40) HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40) LCH_5270MHz_Ant1_NTNV



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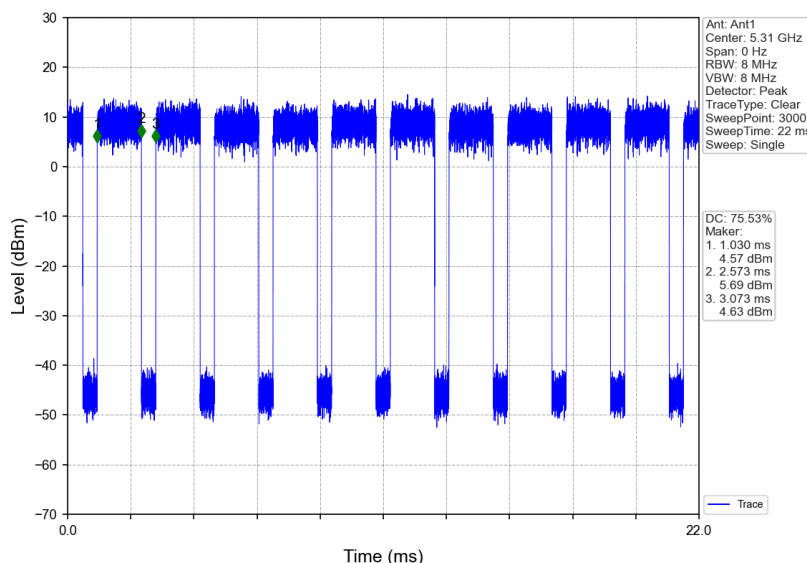
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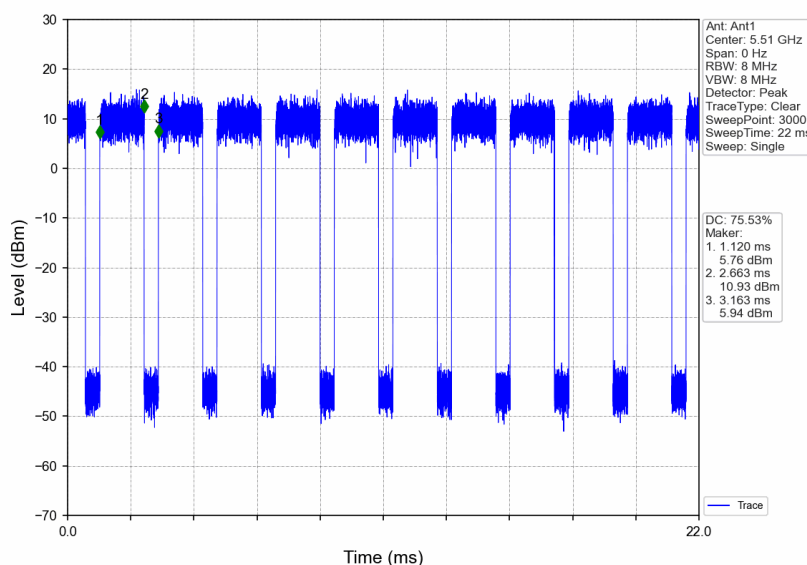
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802.11ac(VHT40) HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40) LCH_5510MHz_Ant1_NTNV



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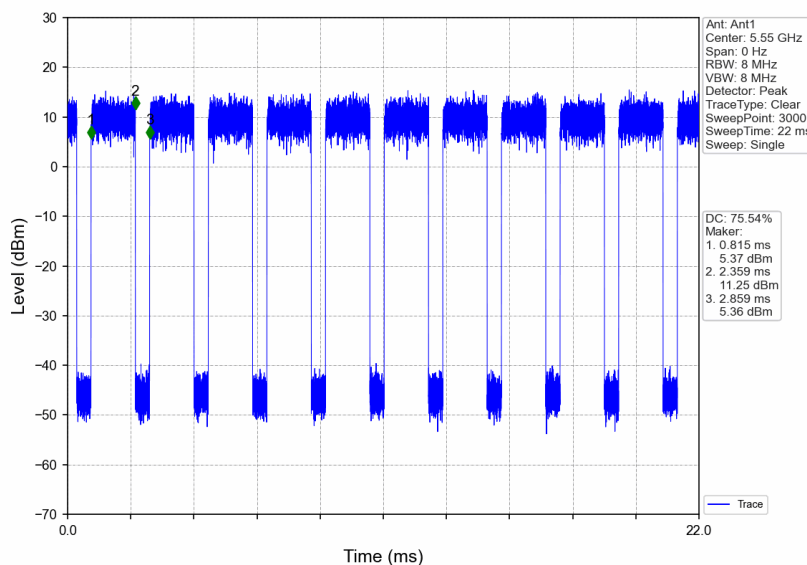
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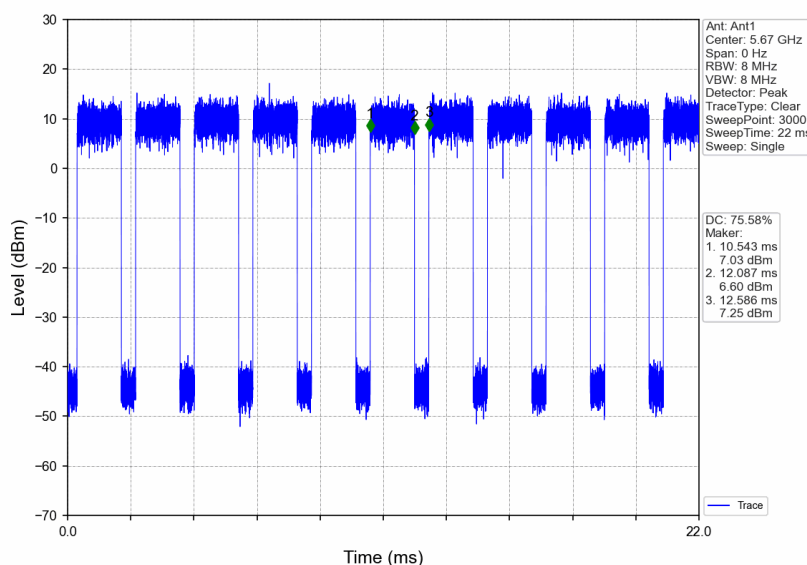
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802.11ac(VHT40) MCH 5550MHz_Ant1_NTNV



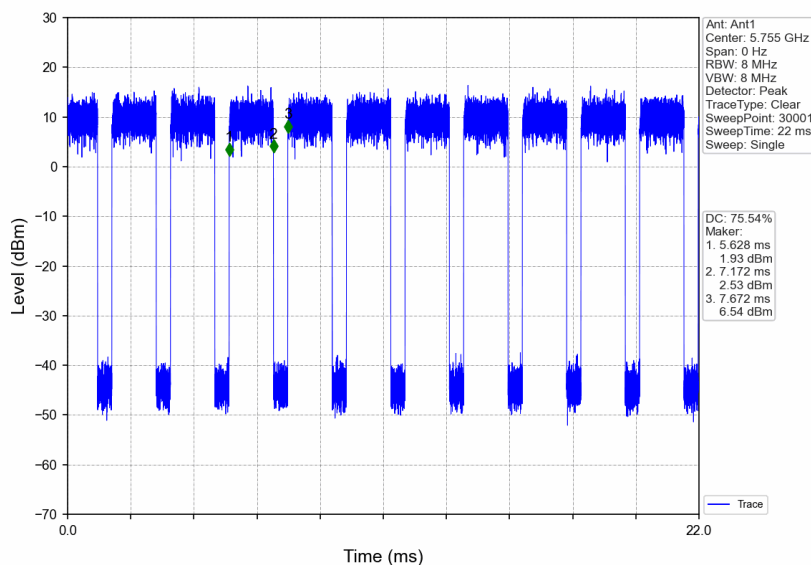
802.11ac(VHT40) HCH 5670MHz_Ant1_NTNV



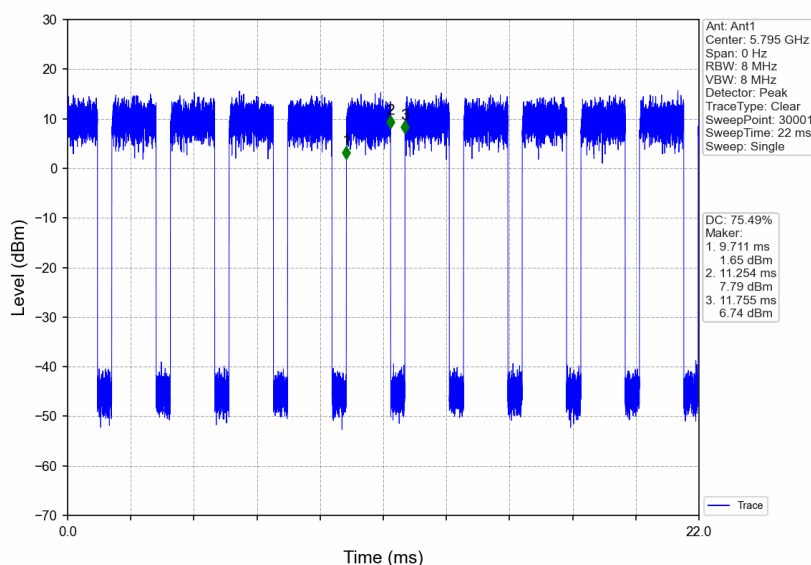
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802.11ac(VHT40) LCH 5755MHz_Ant1_NTNV



802.11ac(VHT40) HCH 5795MHz_Ant1_NTNV



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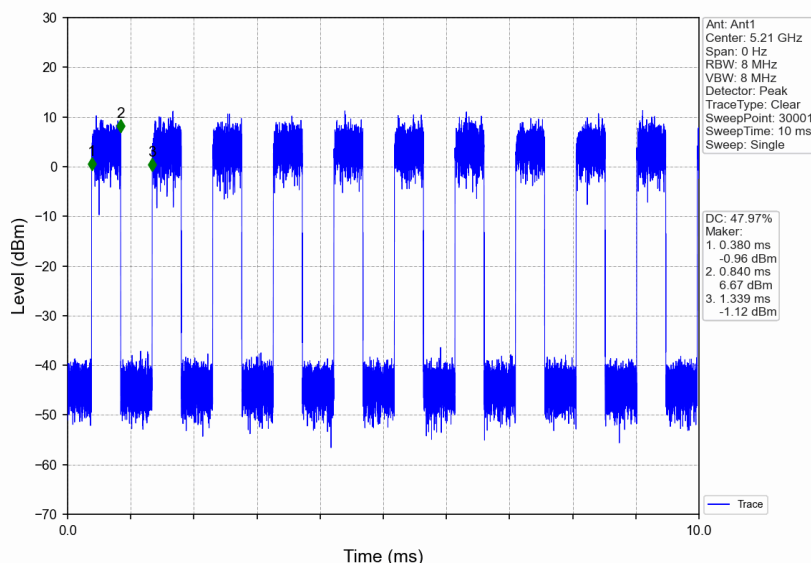
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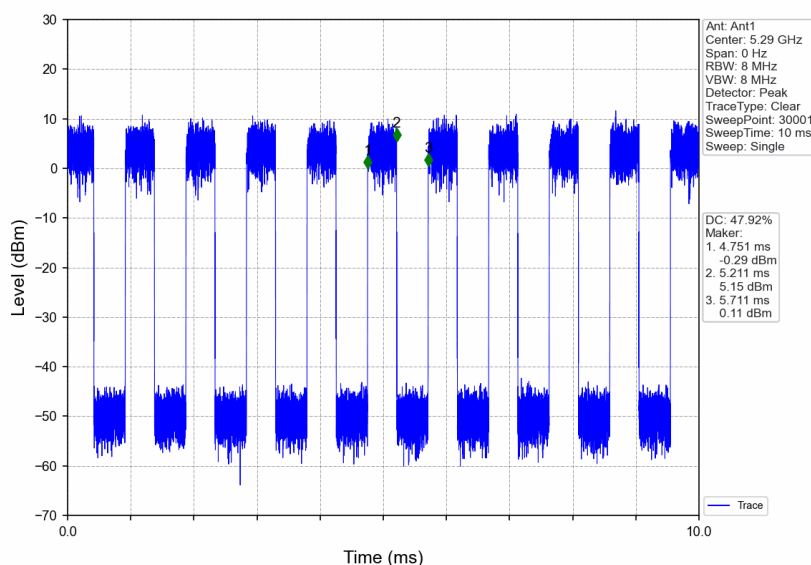
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802.11ac(VHT80) MCH 5210MHz_Ant1_NTNV



802.11ac(VHT80) MCH 5290MHz_Ant1_NTNV



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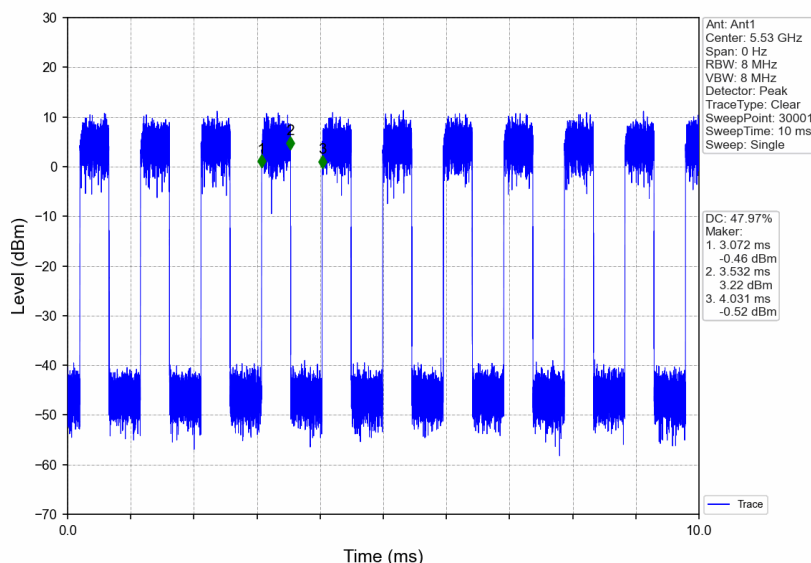
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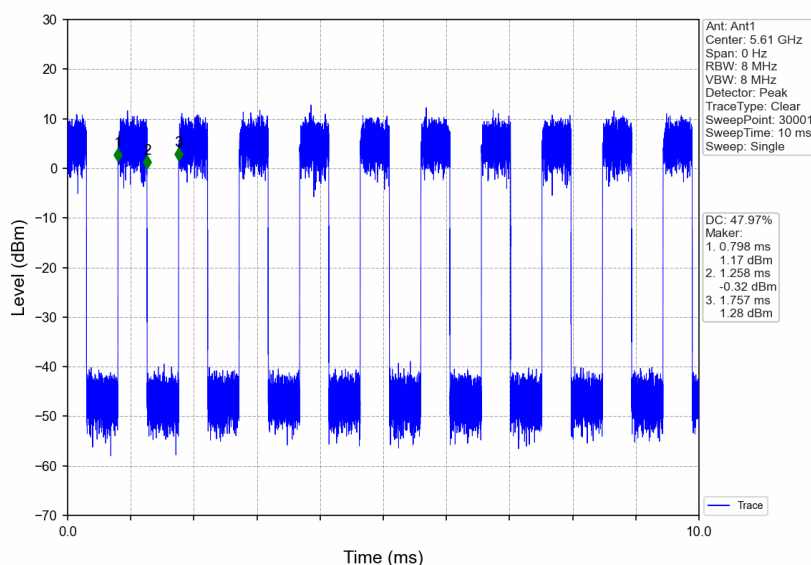
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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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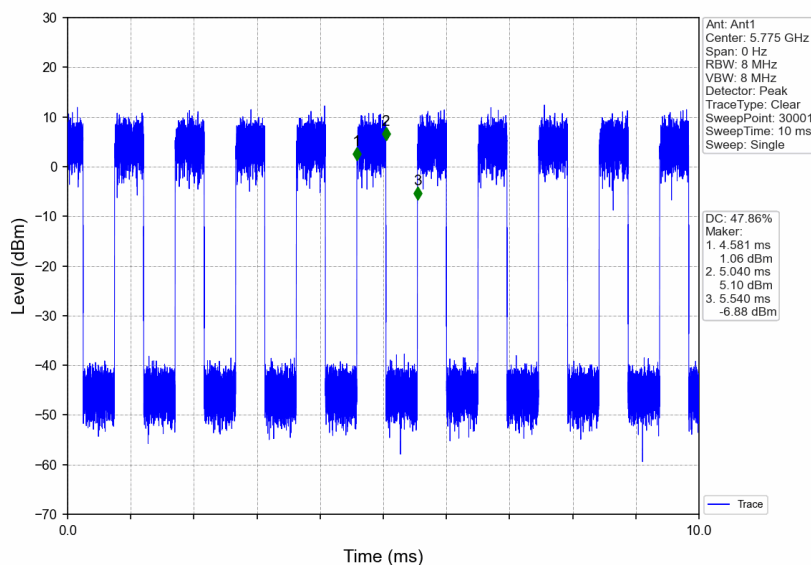
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802.11ac(VHT80) MCH 5775MHz Ant1_NTNV



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	17.848	Pass
			2	17.873	Pass
		5200	1	17.892	Pass
			2	17.836	Pass
		5240	1	17.941	Pass
			2	17.846	Pass
		5260	1	17.894	Pass
			2	17.835	Pass
		5300	1	17.854	Pass
			2	17.826	Pass
		5320	1	17.955	Pass
			2	17.935	Pass
		5500	1	17.793	Pass
			2	17.870	Pass
		5580	1	17.915	Pass
			2	17.975	Pass
		5700	1	18.000	Pass
			2	17.958	Pass
		5745	1	18.103	Pass
			2	18.141	Pass
802.11n (HT20)	MIMO	5180	1	18.233	Pass
			2	18.167	Pass
		5200	1	18.243	Pass
			2	18.269	Pass
		5240	1	18.264	Pass
			2	18.157	Pass
		5260	1	18.251	Pass
			2	18.210	Pass
		5300	1	18.225	Pass
			2	18.205	Pass
		5320	1	18.240	Pass
			2	18.162	Pass
		5500	1	18.232	Pass
			2	18.164	Pass
		5580	1	18.241	Pass
			2	18.271	Pass
		5700	1	19.442	Pass
			2	18.260	Pass
		5745	1	18.266	Pass
			2	18.262	Pass
		5785	1	18.166	Pass
			2	18.177	Pass



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		5825	1	18.514	Pass
			2	18.291	Pass
802.11n (HT40)	MIMO	5190	1	36.707	Pass
			2	36.801	Pass
		5230	1	36.884	Pass
			2	36.670	Pass
		5270	1	36.809	Pass
			2	36.731	Pass
		5310	1	36.804	Pass
			2	36.688	Pass
		5510	1	36.628	Pass
			2	36.677	Pass
		5550	1	36.711	Pass
			2	36.720	Pass
		5670	1	36.779	Pass
			2	36.688	Pass
		5755	1	36.774	Pass
			2	36.754	Pass
802.11ac (VHT20)	MIMO	5180	1	36.885	Pass
			2	36.828	Pass
		5200	1	18.680	Pass
			2	18.671	Pass
		5240	1	18.671	Pass
			2	18.649	Pass
		5260	1	18.592	Pass
			2	18.643	Pass
		5300	1	18.662	Pass
			2	18.650	Pass
		5320	1	18.745	Pass
			2	18.690	Pass
		5500	1	18.658	Pass
			2	18.671	Pass
		5580	1	18.579	Pass
			2	18.626	Pass
802.11ac (VHT40)	MIMO	5700	1	18.731	Pass
			2	18.661	Pass
		5745	1	18.705	Pass
			2	18.581	Pass
		5785	1	18.661	Pass
			2	18.576	Pass
		5825	1	18.669	Pass
			2	18.646	Pass
		5190	1	36.687	Pass
			2	36.724	Pass
		5230	1	36.806	Pass
			2	36.676	Pass
		5270	1	36.795	Pass
			2	36.770	Pass
		5310	1	36.834	Pass
			2	36.755	Pass
		5510	1	36.648	Pass
			2	36.679	Pass
		5550	1	36.651	Pass



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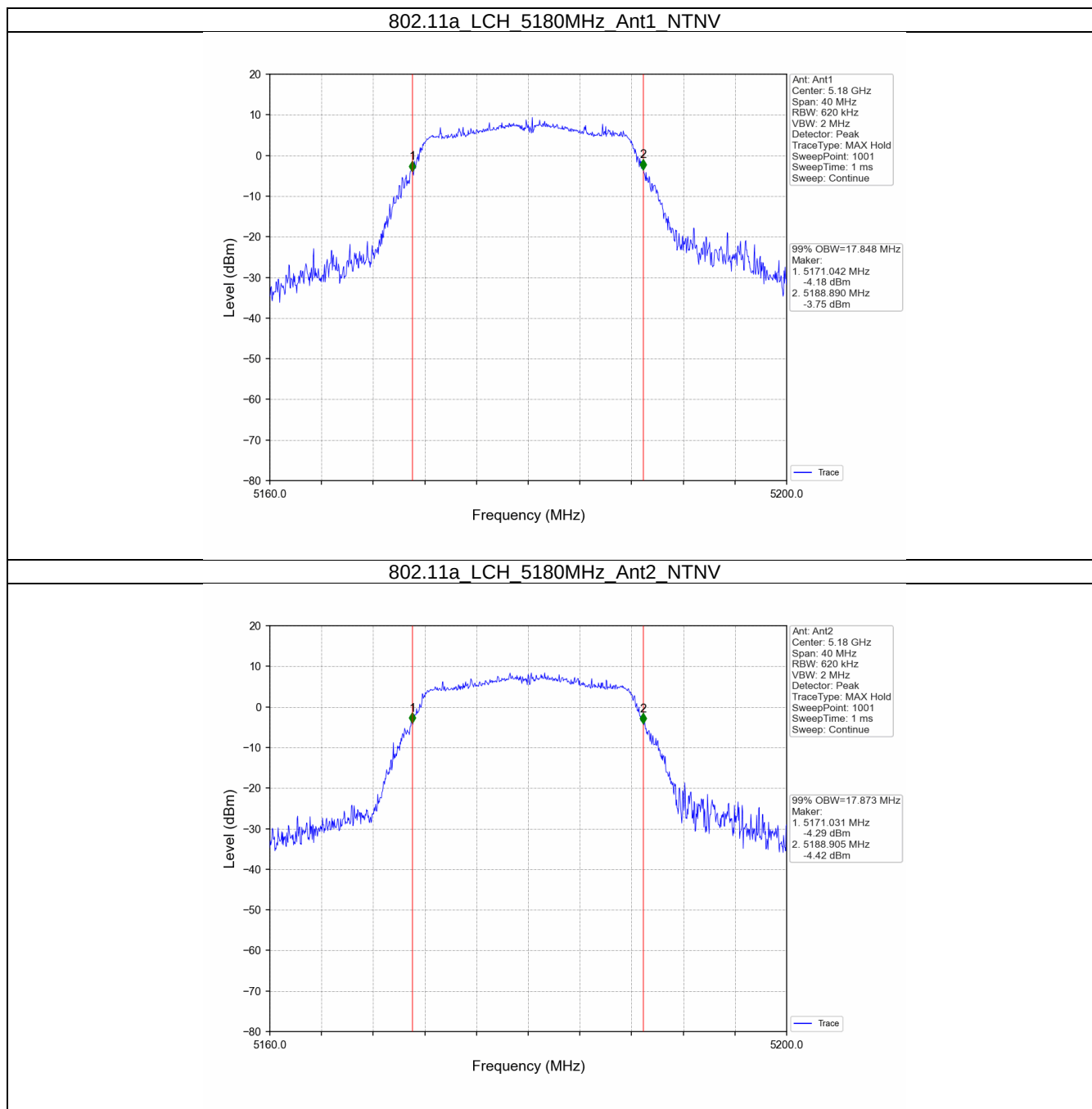
		5670	2	36.786	Pass
			1	36.613	Pass
			2	36.789	Pass
		5755	1	36.954	Pass
			2	36.750	Pass
		5795	1	36.698	Pass
			2	36.667	Pass
802.11ac (VHT80)	MIMO	5210	1	76.459	Pass
			2	76.411	Pass
		5290	1	76.392	Pass
			2	76.439	Pass
		5530	1	76.619	Pass
			2	76.425	Pass
		5610	1	76.528	Pass
			2	76.731	Pass
		5775	1	76.546	Pass
			2	76.620	Pass



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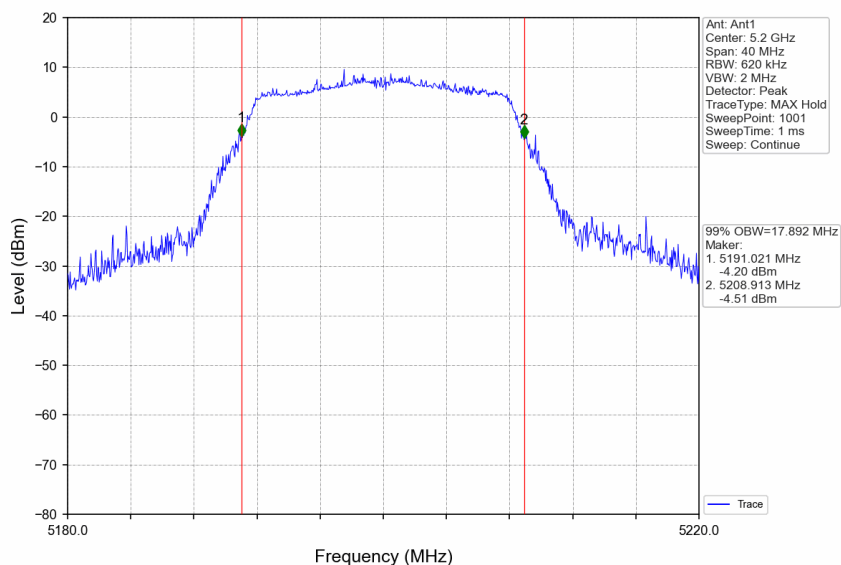
2.1.2 Test Graph



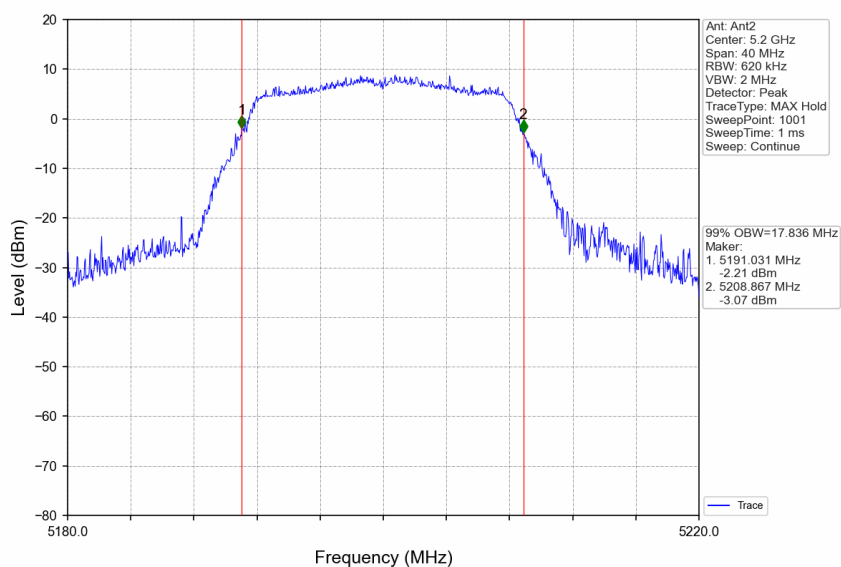
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802.11a_MCH_5200MHz_Ant1_NTNV



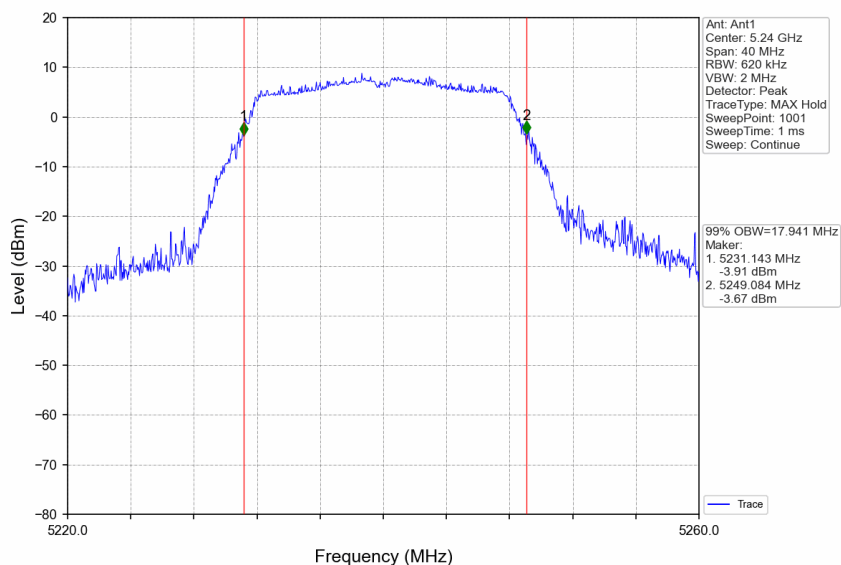
802.11a_MCH_5200MHz_Ant2_NTNV



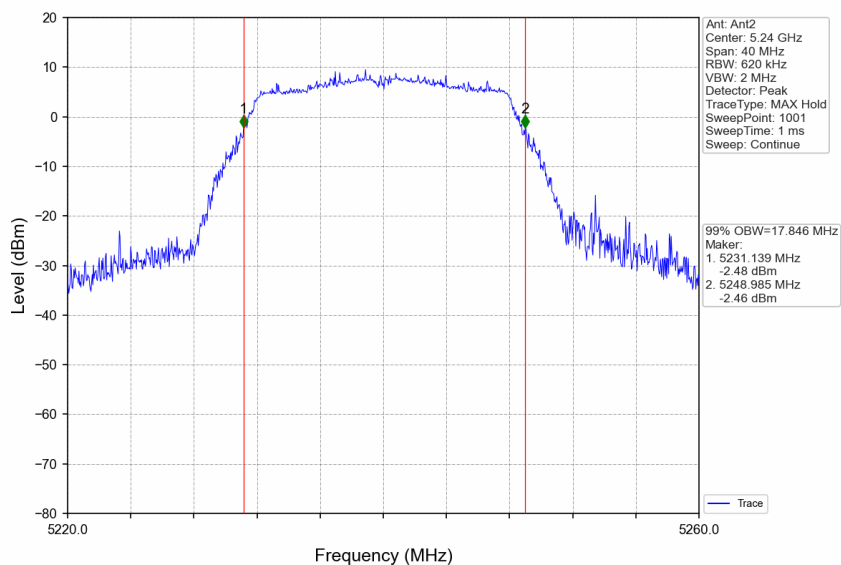
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802.11a_HCH_5240MHz_Ant1_NTNV



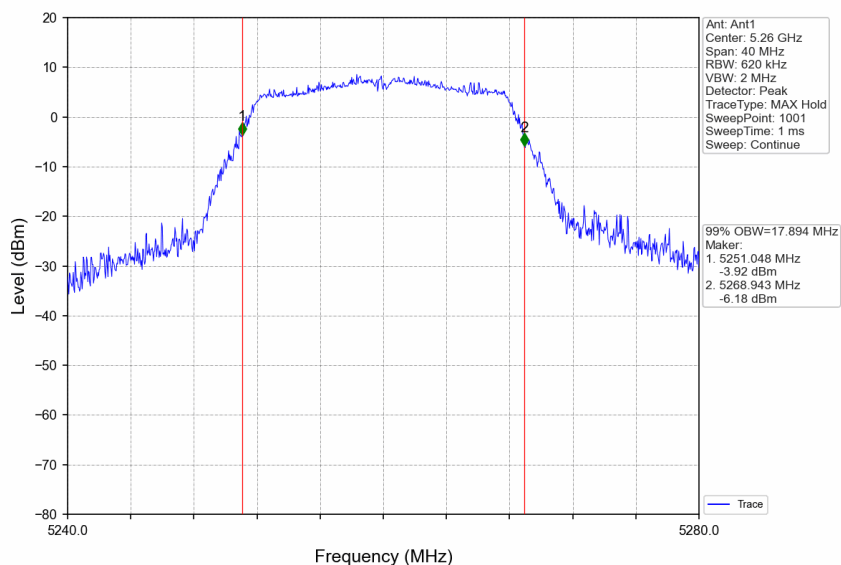
802.11a_HCH_5240MHz_Ant2_NTNV



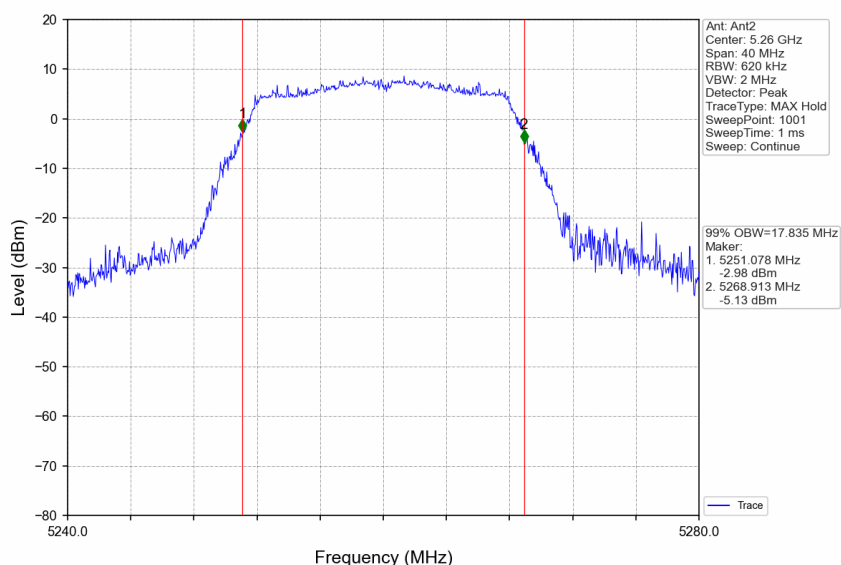
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802.11a LCH_5260MHz_Ant1_NTNV



802.11a LCH_5260MHz_Ant2_NTNV



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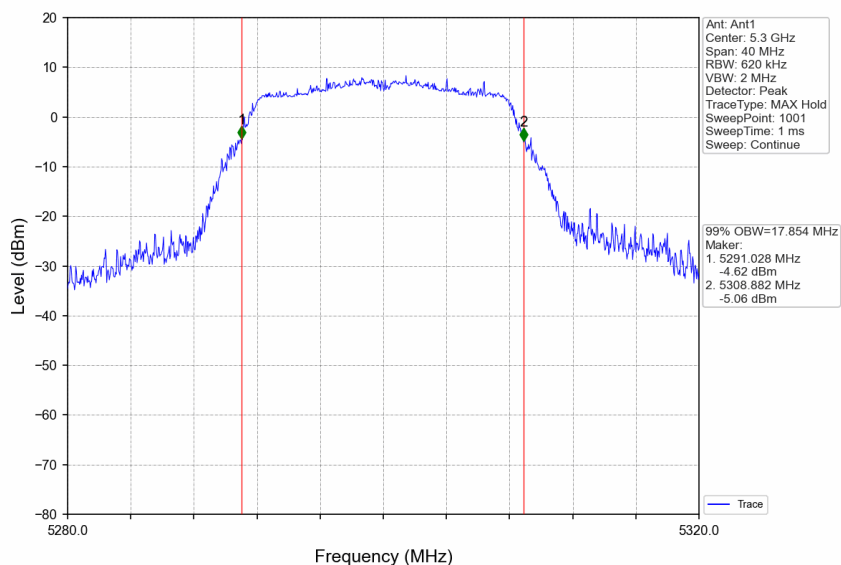
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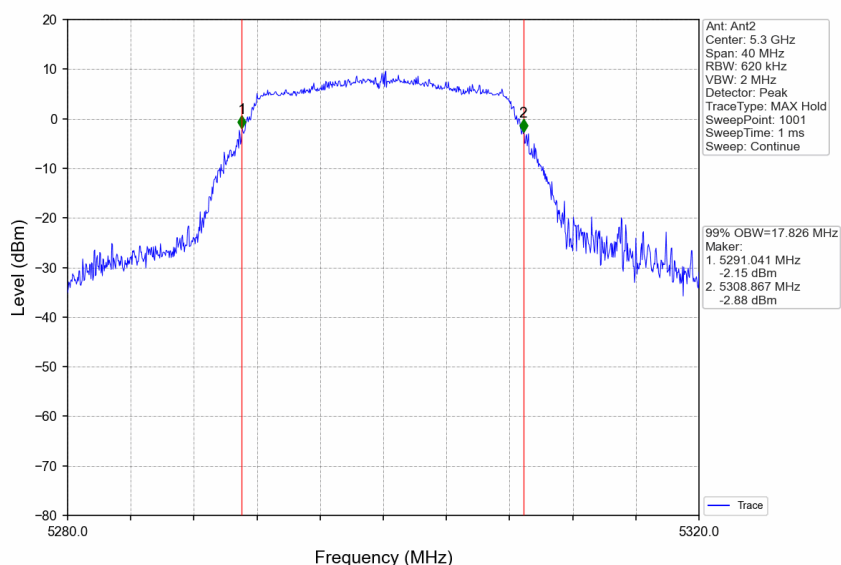
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_MCH_5300MHz_Ant2_NTNV



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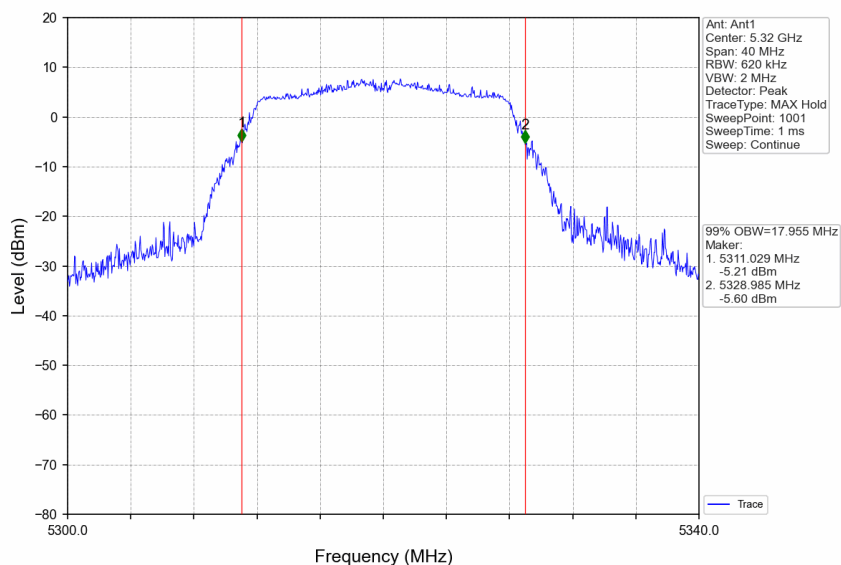
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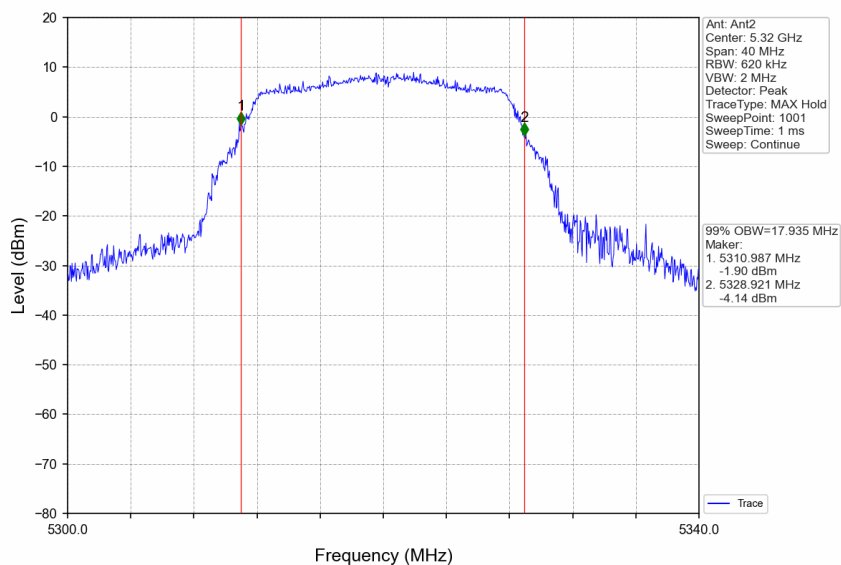
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802.11a_HCH_5320MHz_Ant1_NTNV



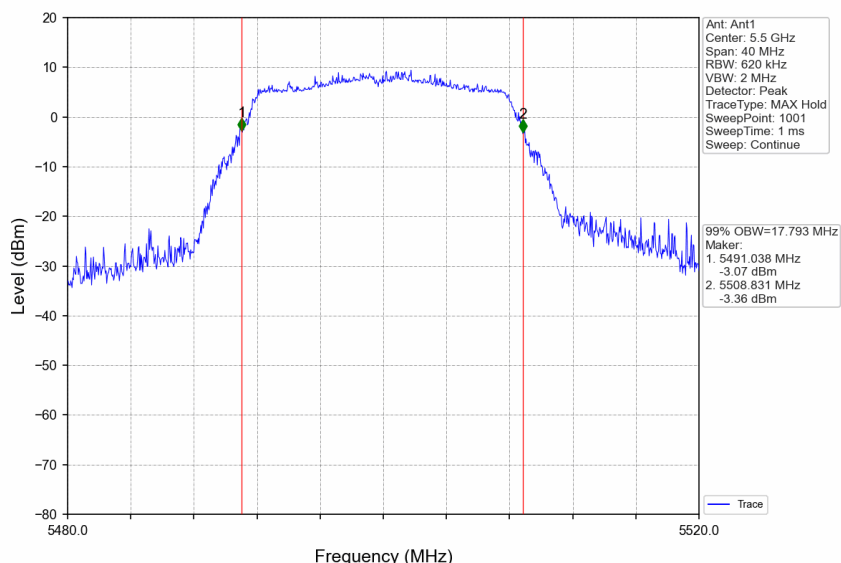
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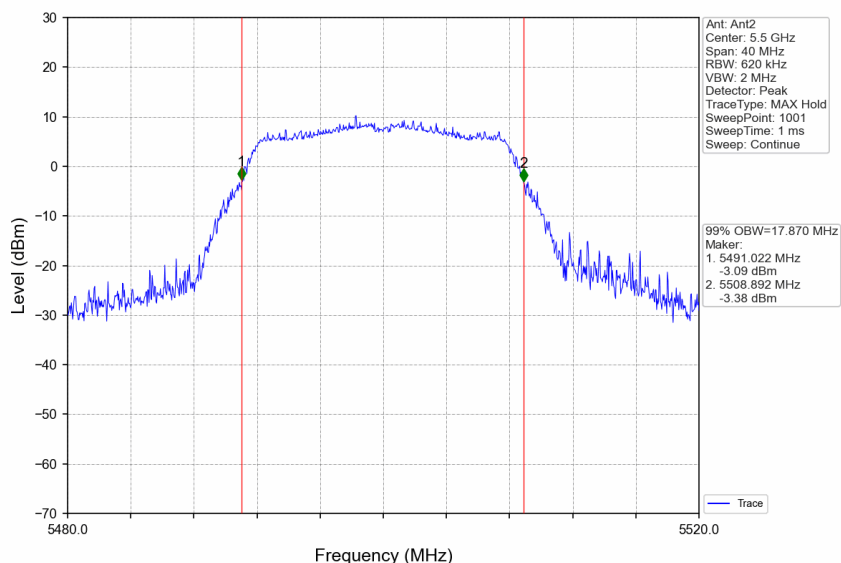
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802.11a LCH_5500MHz_Ant1_NTNV



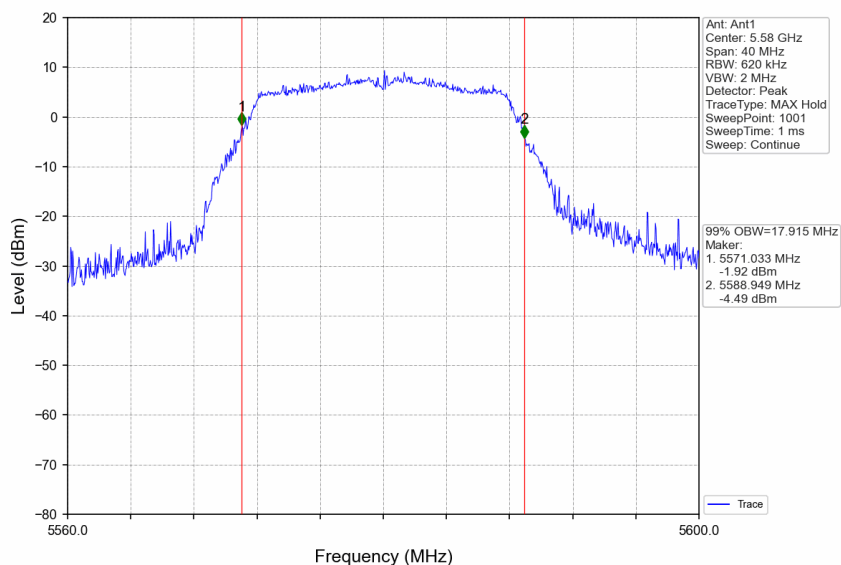
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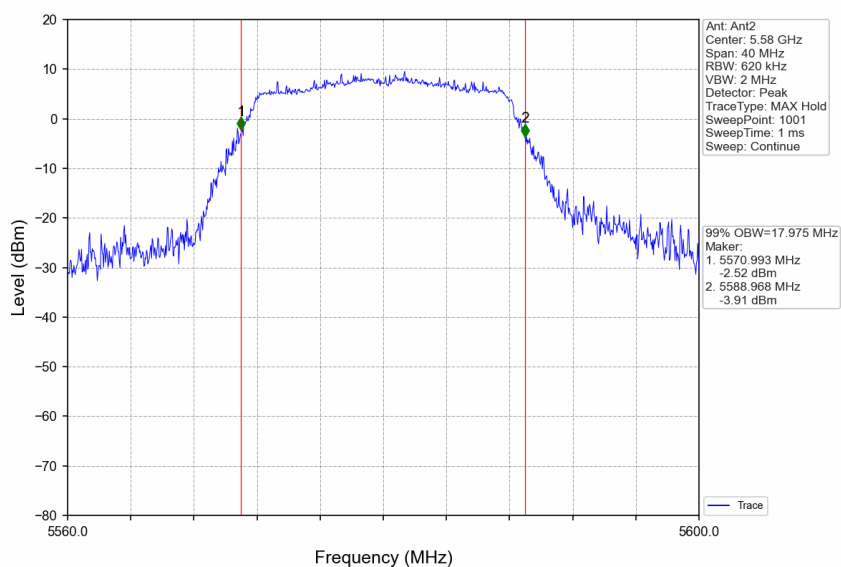
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802.11a_MCH_5580MHz_Ant1_NTNV



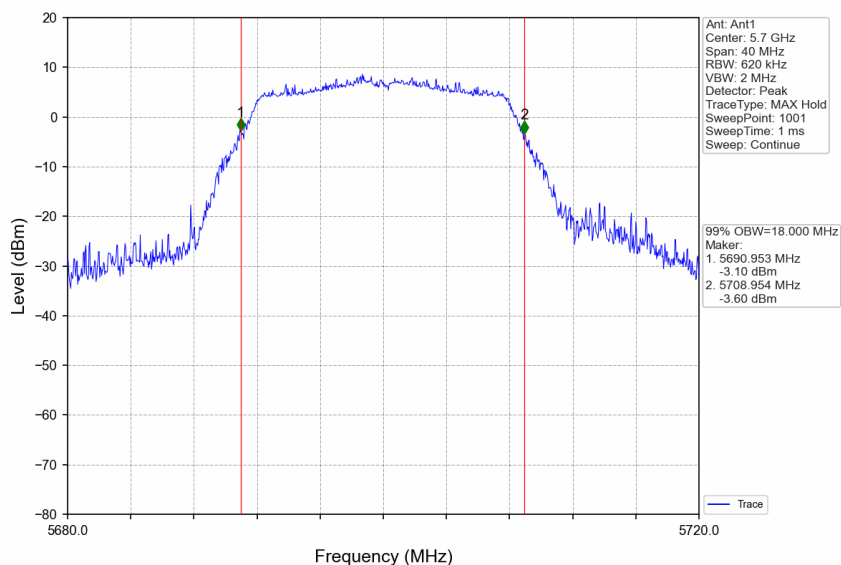
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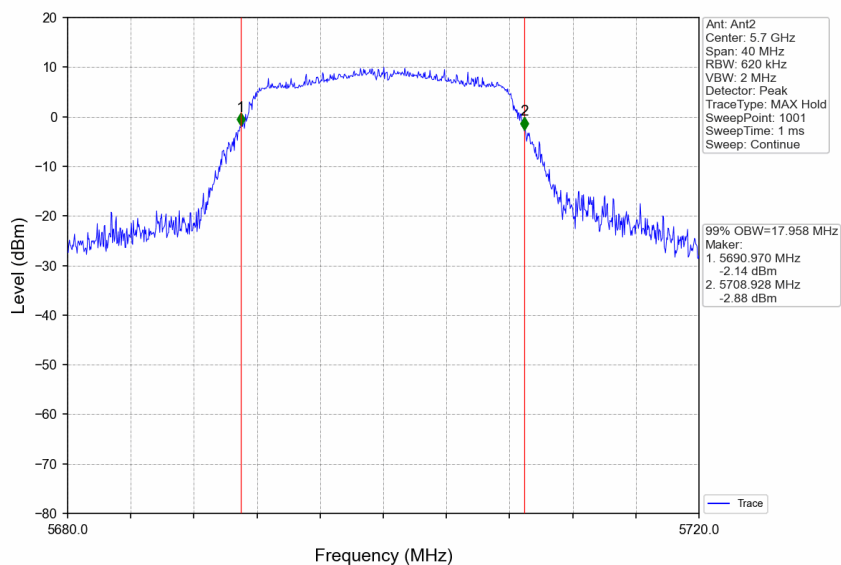
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_HCH_5700MHz_Ant2_NTNV



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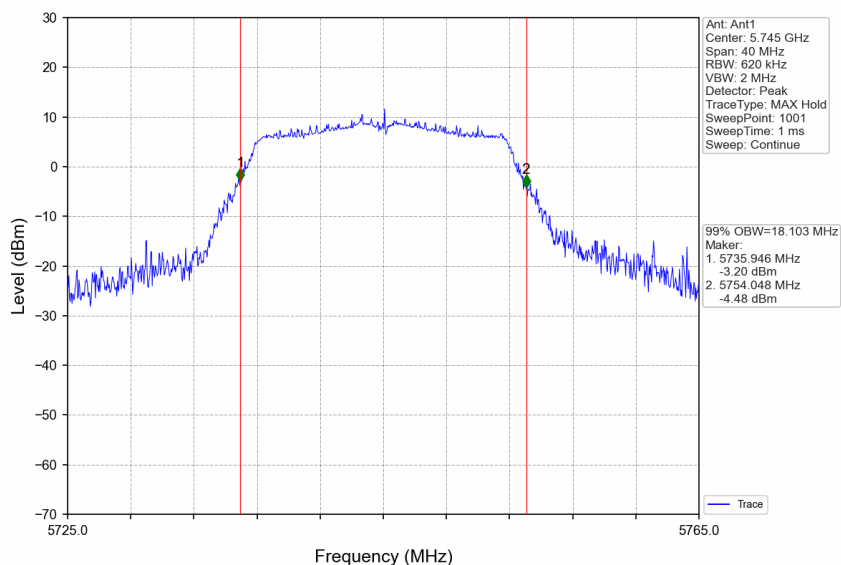
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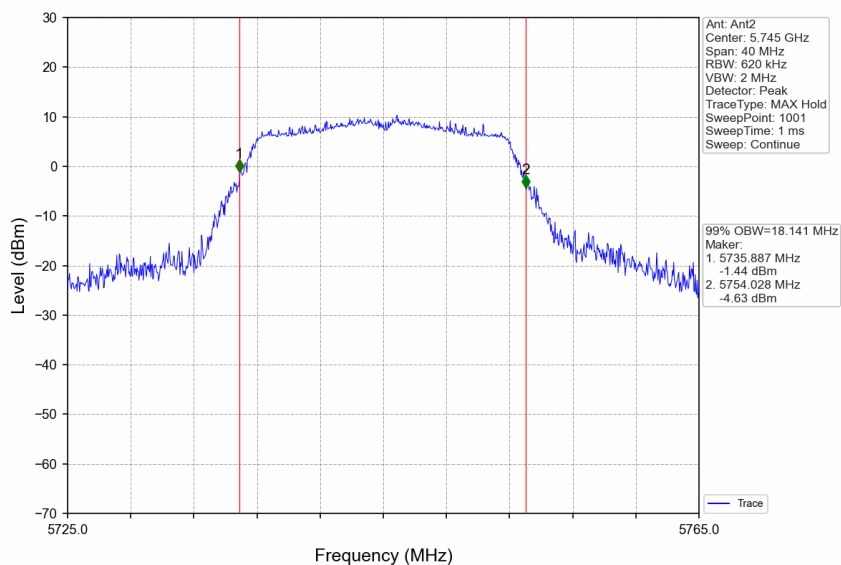
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802.11a LCH_5745MHz_Ant1_NTNV



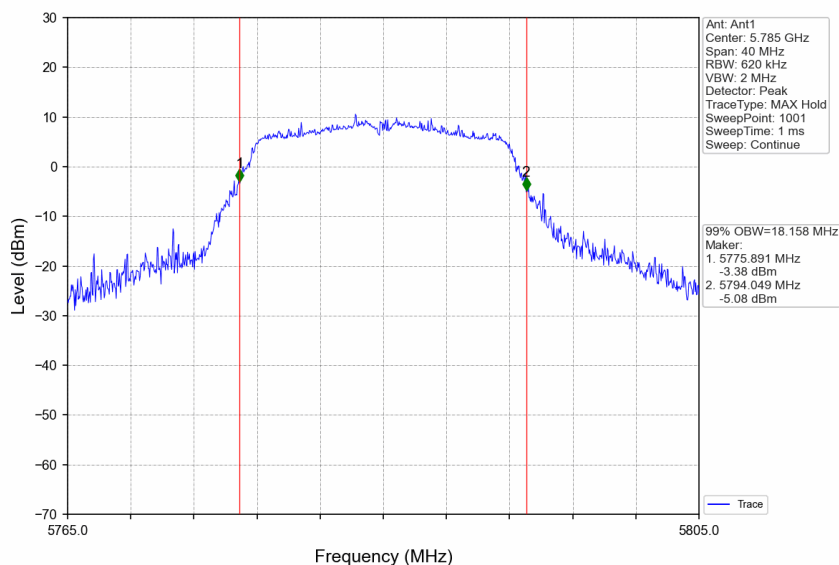
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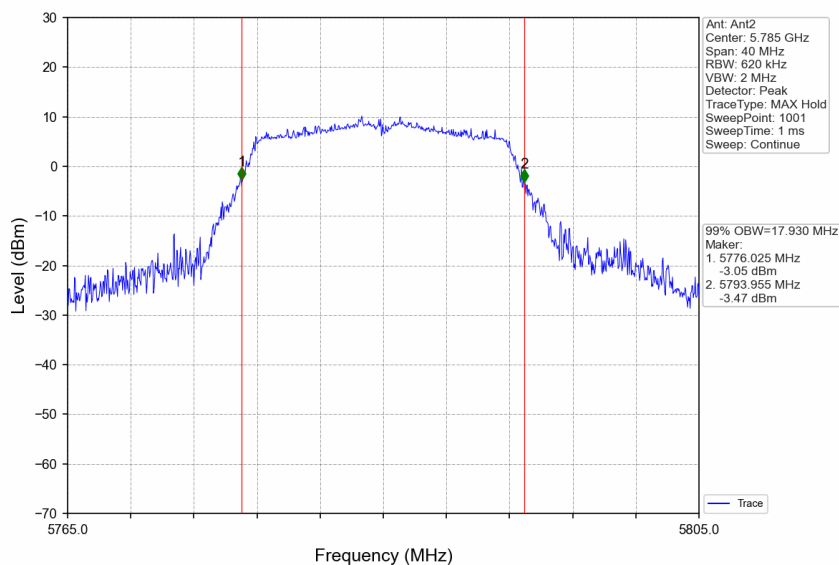
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802.11a_MCH_5785MHz_Ant1_NTNV



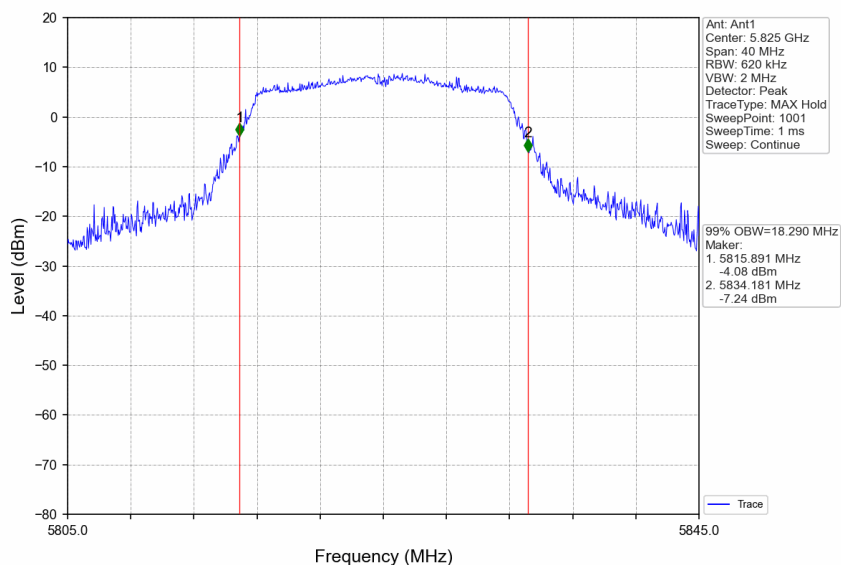
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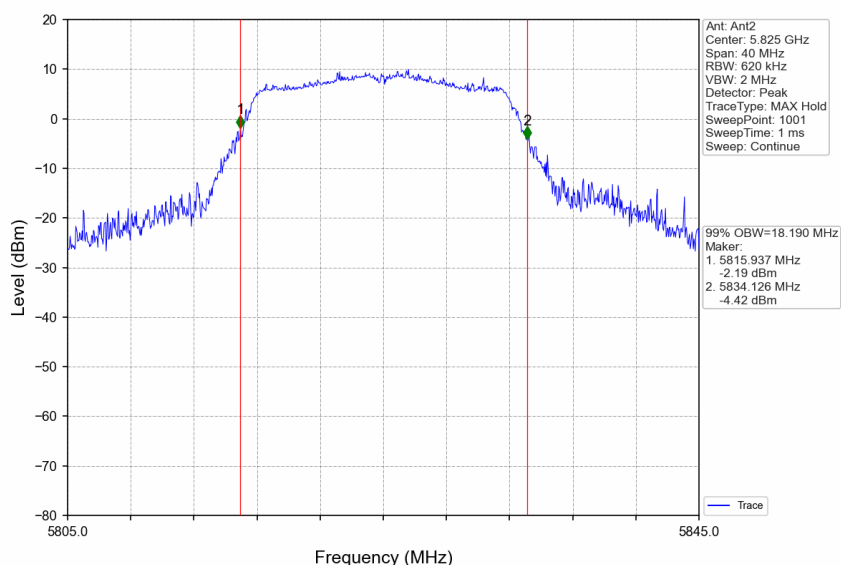
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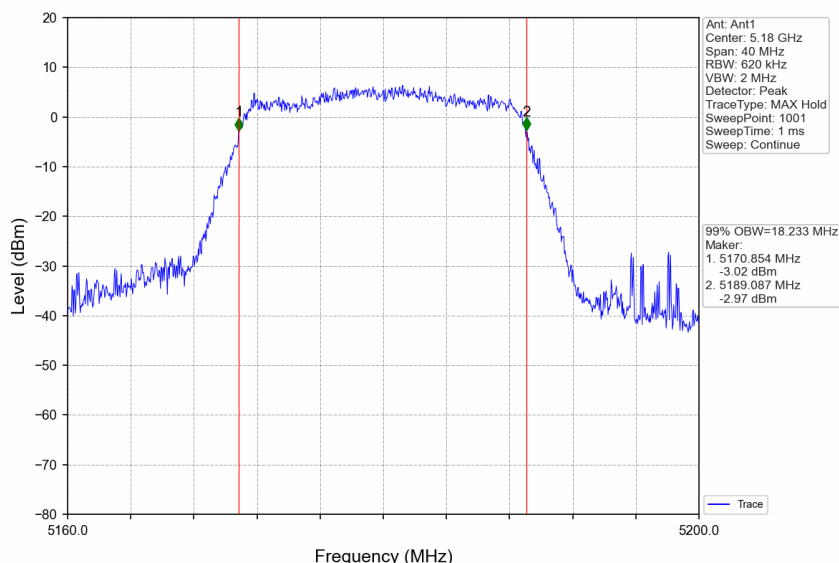
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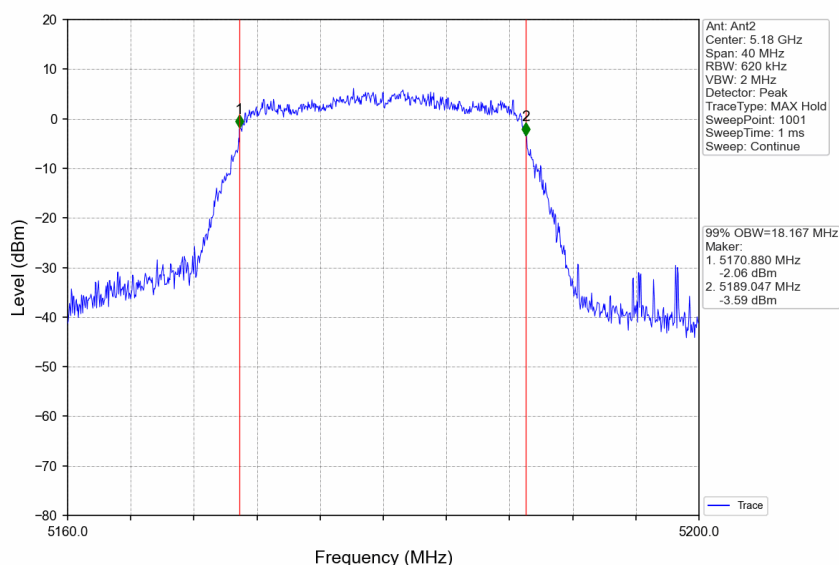
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802.11n(HT20) LCH 5180MHz Ant2 NTN



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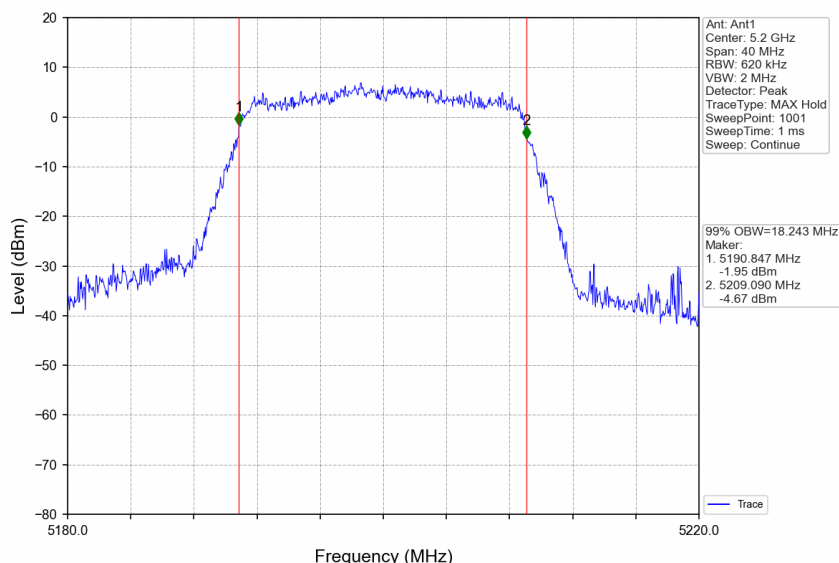
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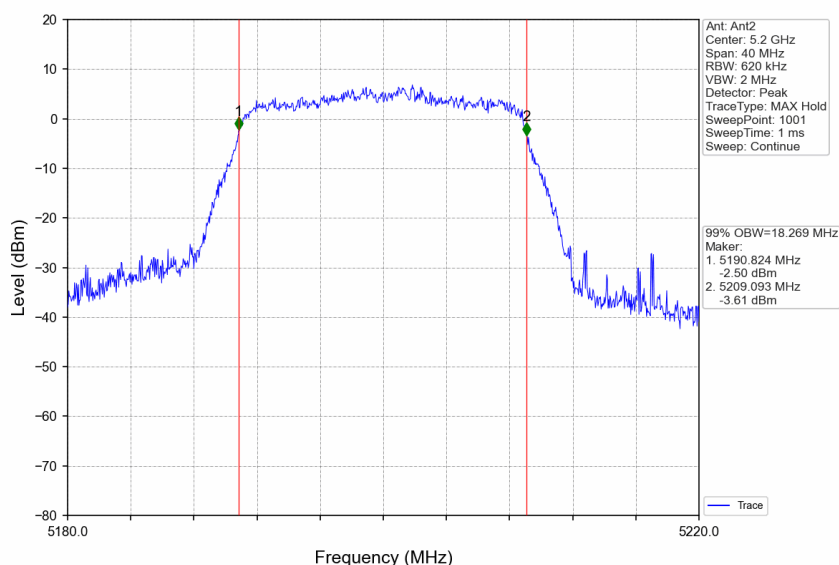
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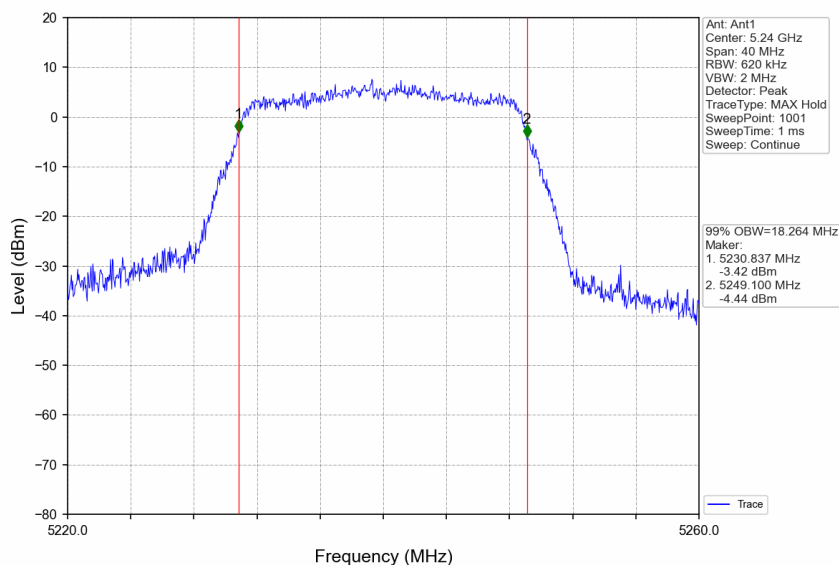
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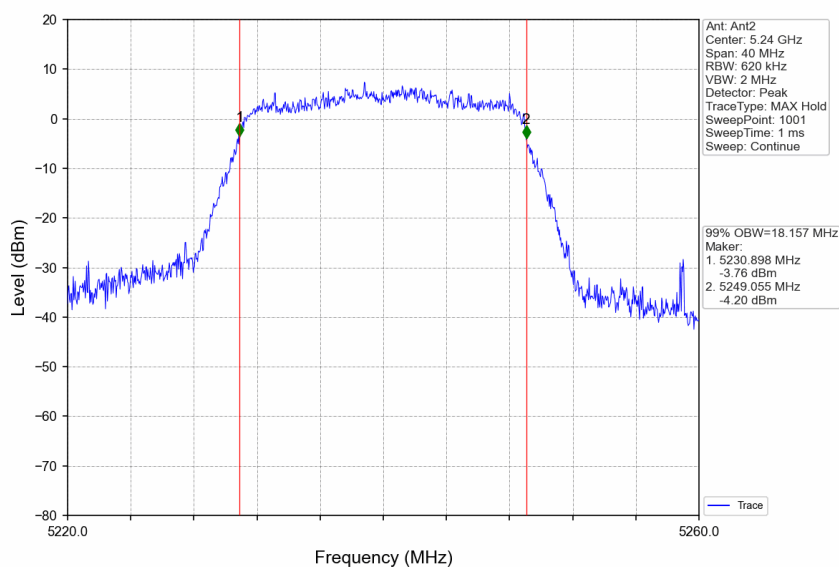
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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