

Appendix B for SHCR220100002902

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	2.063	2.162	95.42	0.20	0.03
		5200	2.064	2.163	95.42	0.20	0.03
		5240	2.064	2.163	95.42	0.20	0.03
		5260	2.064	2.163	95.42	0.20	0.00
		5300	2.064	2.163	95.42	0.20	0.03
		5320	2.064	2.163	95.42	0.20	0.00
		5500	2.063	2.162	95.42	0.20	0.03
		5580	2.063	2.162	95.42	0.20	0.03
		5700	2.064	2.163	95.42	0.20	0.03
		5745	2.063	2.162	95.42	0.20	0.03
802.11n (HT20)	MIMO	5180	1.919	2.418	79.36	1.00	0.03
		5200	1.919	2.418	79.36	1.00	0.03
		5240	1.920	2.536	75.71	1.21	0.05
		5260	1.920	2.536	75.71	1.21	0.09
		5300	1.919	2.536	75.67	1.21	0.05
		5320	1.919	2.536	75.67	1.21	0.05
		5500	1.919	2.419	79.33	1.01	0.04
		5580	1.919	2.536	75.67	1.21	0.09
		5700	1.919	2.536	75.67	1.21	0.05
		5745	1.919	2.418	79.36	1.00	0.03
802.11n (HT40)	MIMO	5190	0.100	0.199	50.25	2.99	0.07
		5230	0.100	0.199	50.25	2.99	0.10
		5270	0.095	0.199	47.74	3.21	0.18
		5310	0.100	0.199	50.25	2.99	0.08
		5510	0.095	0.200	47.50	3.23	0.35
		5550	0.095	0.199	47.74	3.21	0.20
		5670	0.100	0.199	50.25	2.99	0.08
		5755	0.095	0.199	47.74	3.21	0.18
802.11ac (VHT20)	MIMO	5180	1.932	2.431	79.47	1.00	0.04
		5200	1.932	2.552	75.71	1.21	0.03
		5240	1.931	2.551	75.70	1.21	0.03
		5260	1.932	2.552	75.71	1.21	0.03
		5300	1.932	2.551	75.74	1.21	0.03
		5320	1.931	2.551	75.70	1.21	0.03
		5500	1.932	2.431	79.47	1.00	0.03
		5580	1.932	2.552	75.71	1.21	0.03
5700	1.932	2.552	75.71	1.21	0.03		



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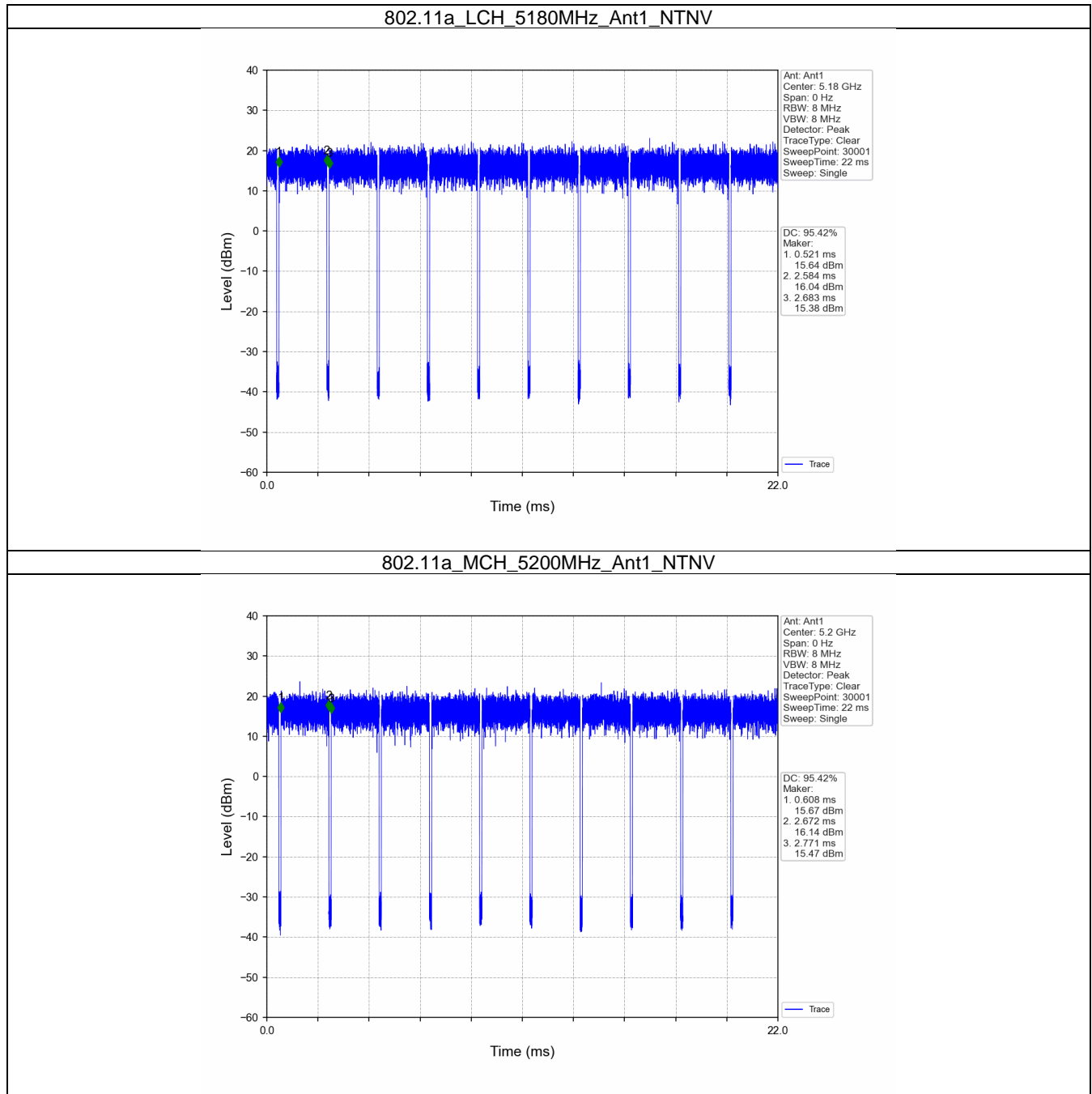
		5745	1.932	2.552	75.71	1.21	0.03
		5785	1.932	2.431	79.47	1.00	0.04
		5825	1.931	2.430	79.47	1.00	0.04
802.11ac (VHT40)	MIMO	5190	1.544	2.043	75.58	1.22	0.04
		5230	1.543	2.043	75.53	1.22	0.04
		5270	1.543	2.043	75.53	1.22	0.04
		5310	1.544	2.044	75.54	1.22	0.05
		5510	1.544	2.043	75.58	1.22	0.04
		5550	1.543	2.043	75.53	1.22	0.04
		5670	1.544	2.043	75.58	1.22	0.04
		5755	1.544	2.044	75.54	1.22	0.06
		5795	1.544	2.044	75.54	1.22	0.00
802.11ac (VHT80)	MIMO	5210	0.460	0.960	47.92	3.20	0.02
		5290	0.460	0.959	47.97	3.19	0.02
		5530	0.459	0.959	47.86	3.20	0.02
		5610	0.460	0.959	47.97	3.19	0.05
		5775	0.460	0.959	47.97	3.19	0.03



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1.1.2 Test Graph

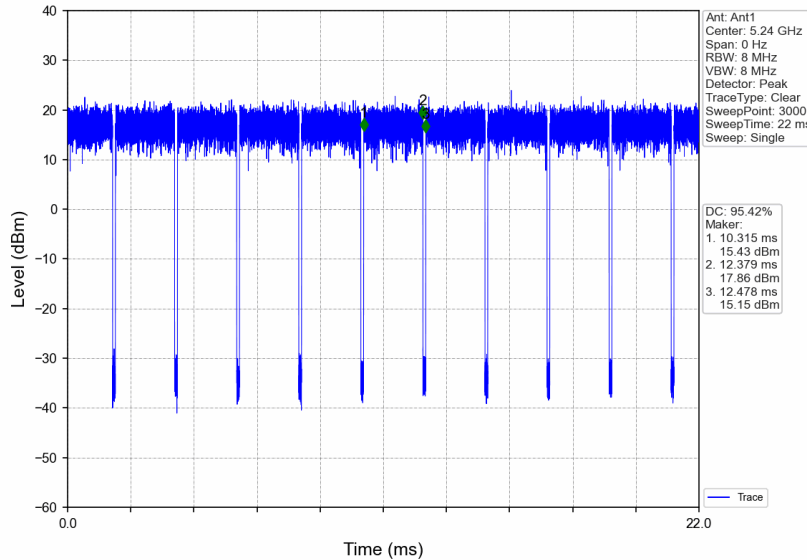


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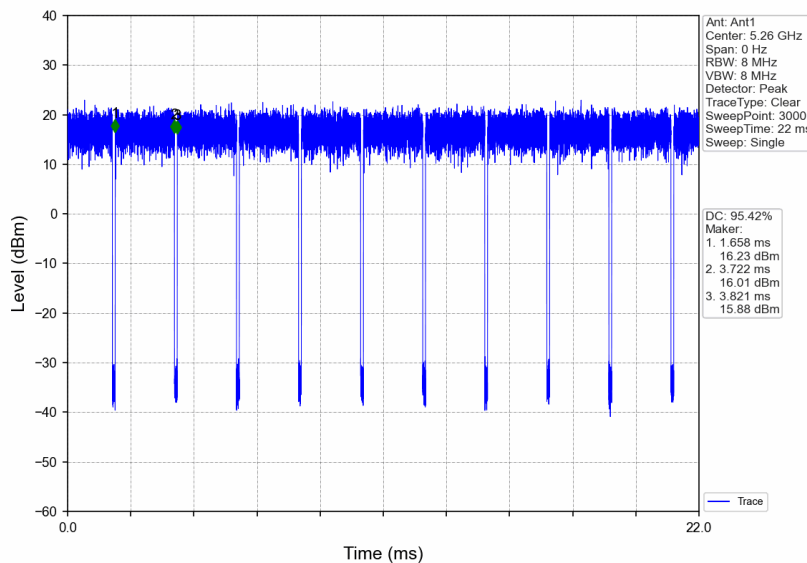
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802.11a_HCH_5240MHz_Ant1_NTNV



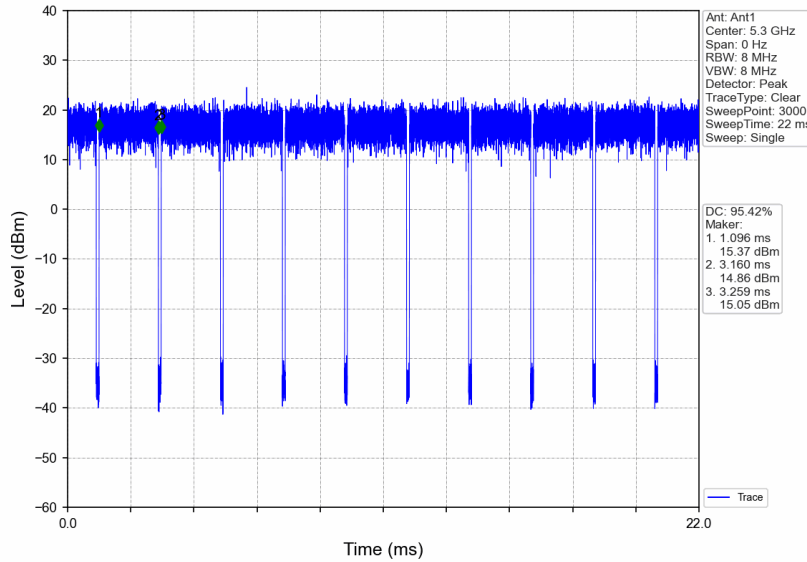
802.11a_LCH_5260MHz_Ant1_NTNV



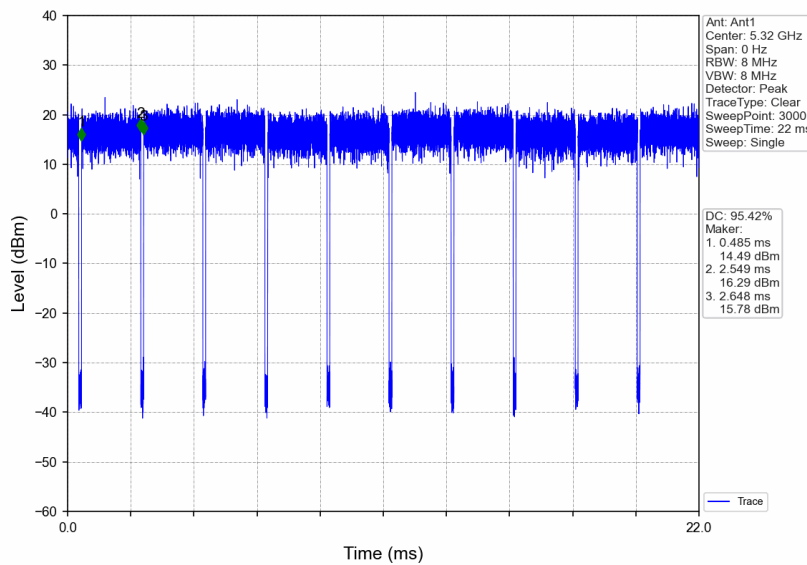
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802.11a_MCH_5300MHz_Ant1_NTNV



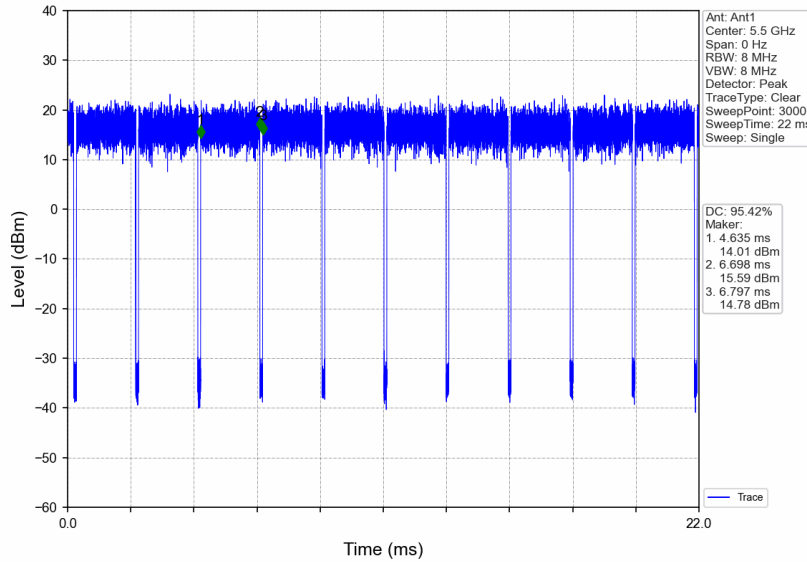
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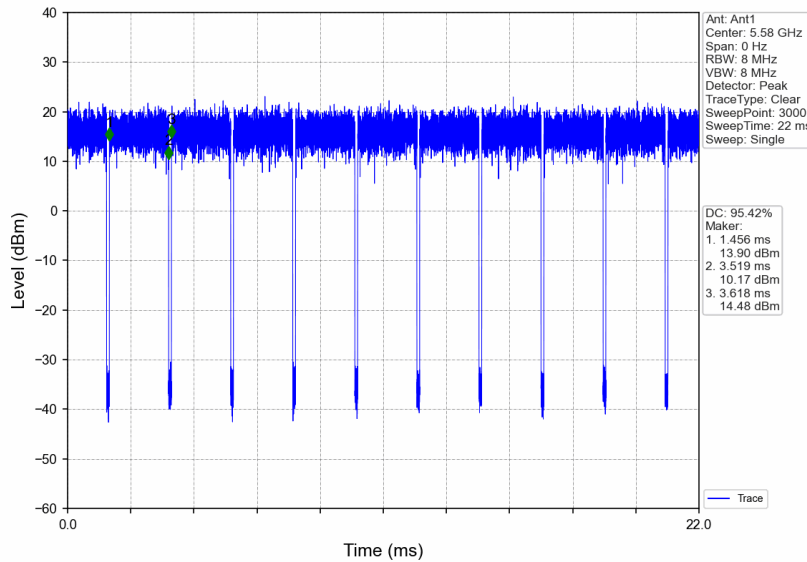
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802.11a_LCH_5500MHz_Ant1_NTNV



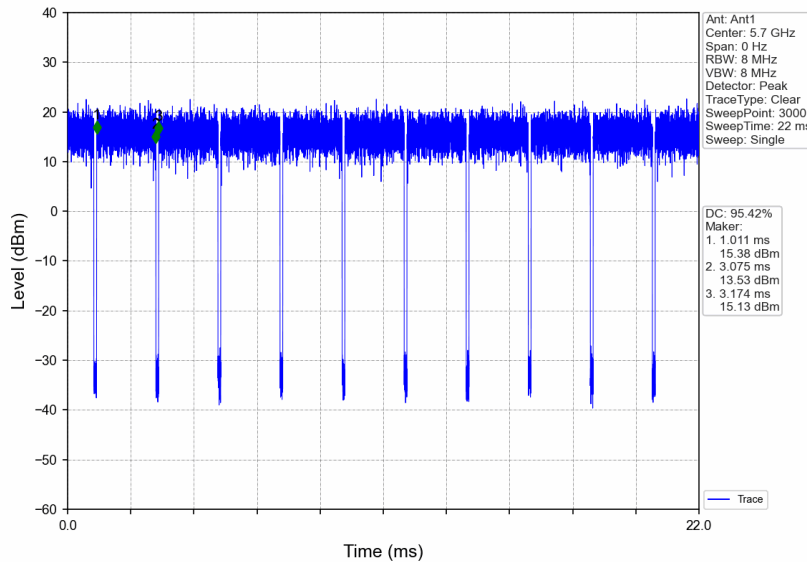
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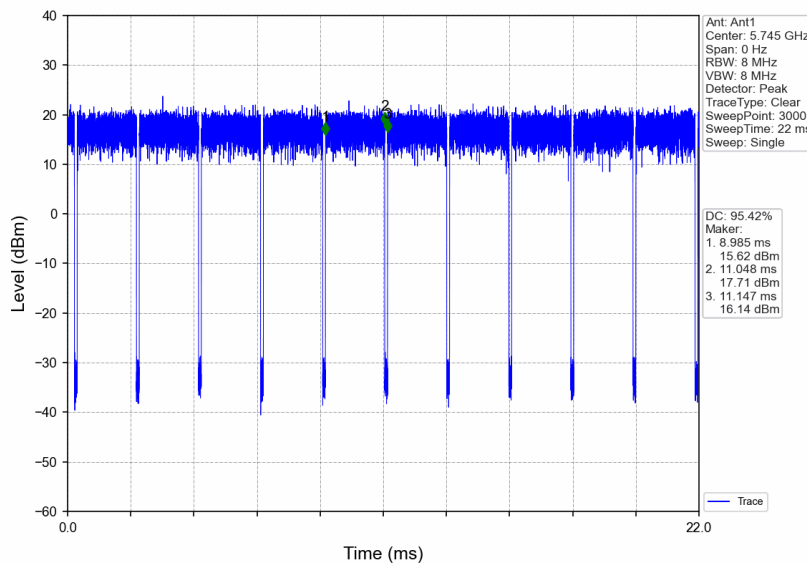
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802.11a_HCH_5700MHz_Ant1_NTNV



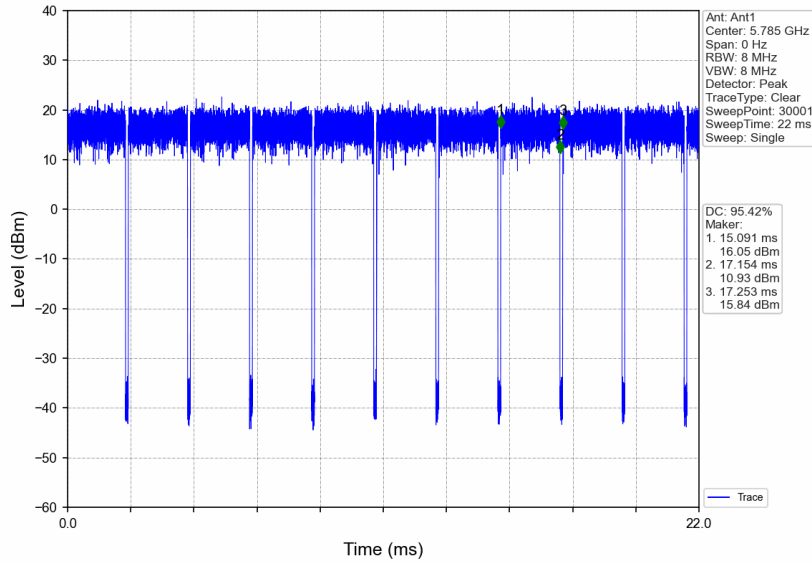
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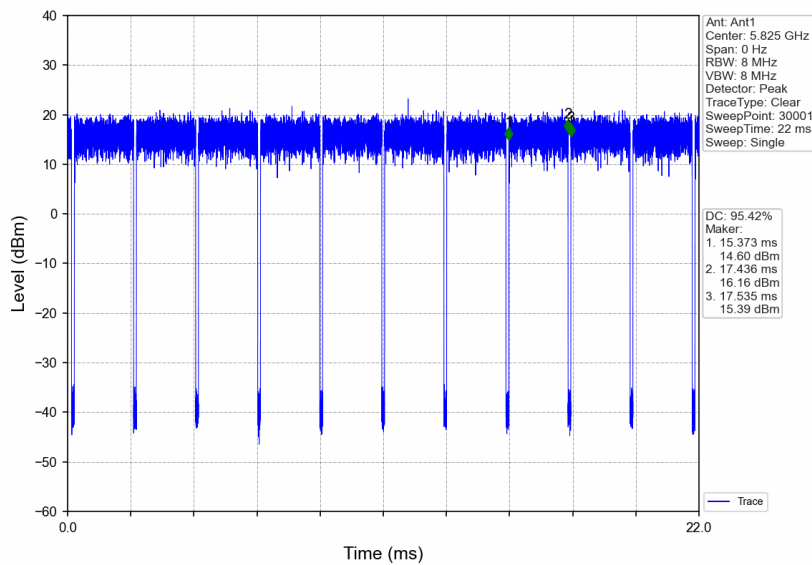
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802.11a_MCH_5785MHz_Ant1_NTNV



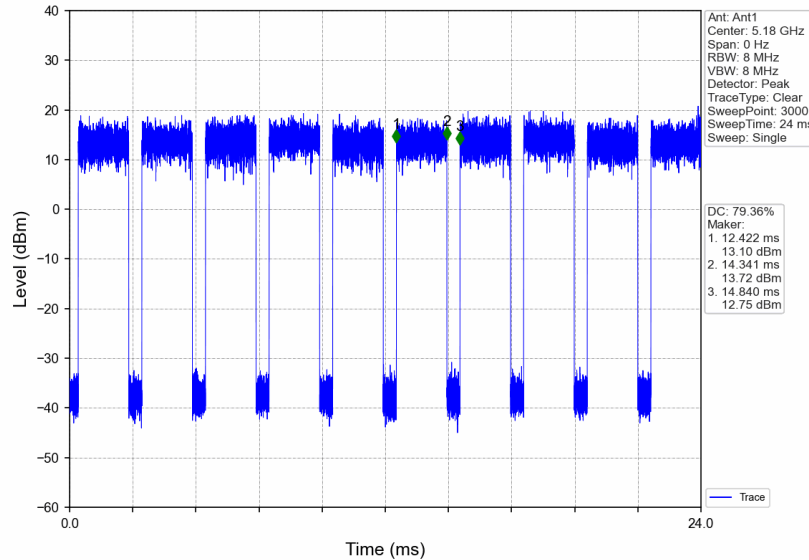
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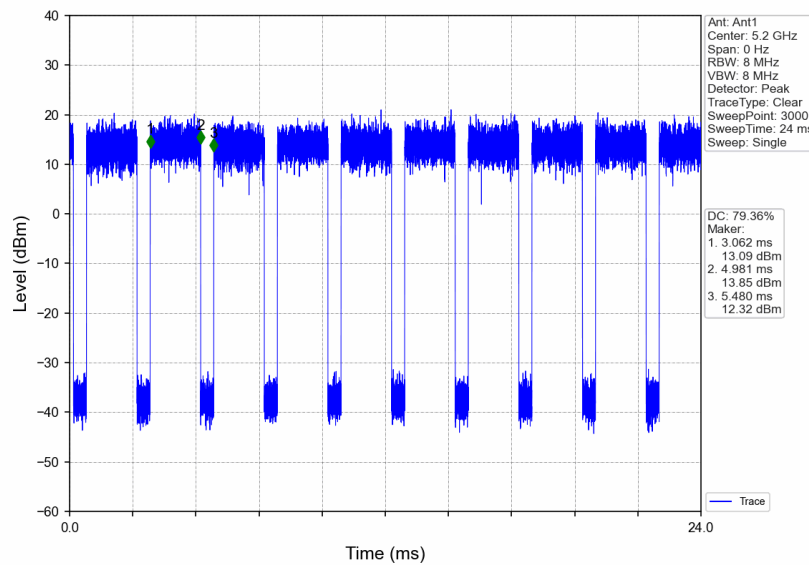
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



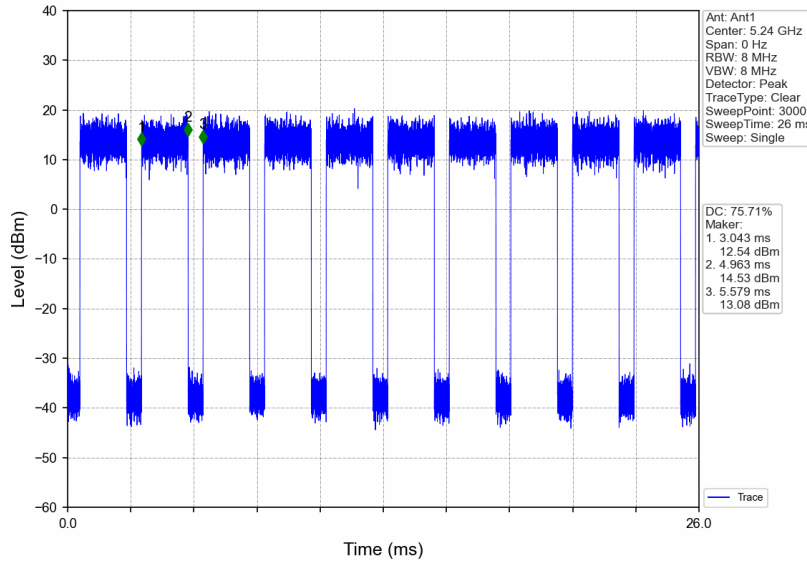
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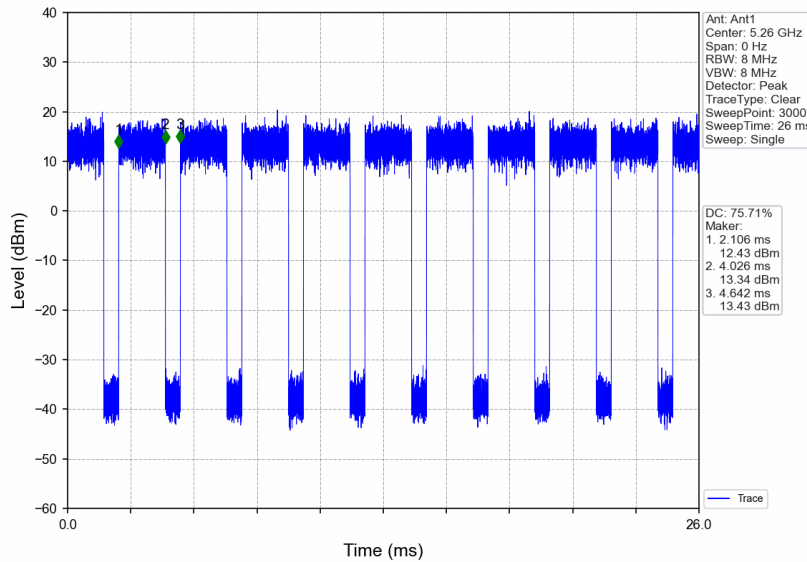
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



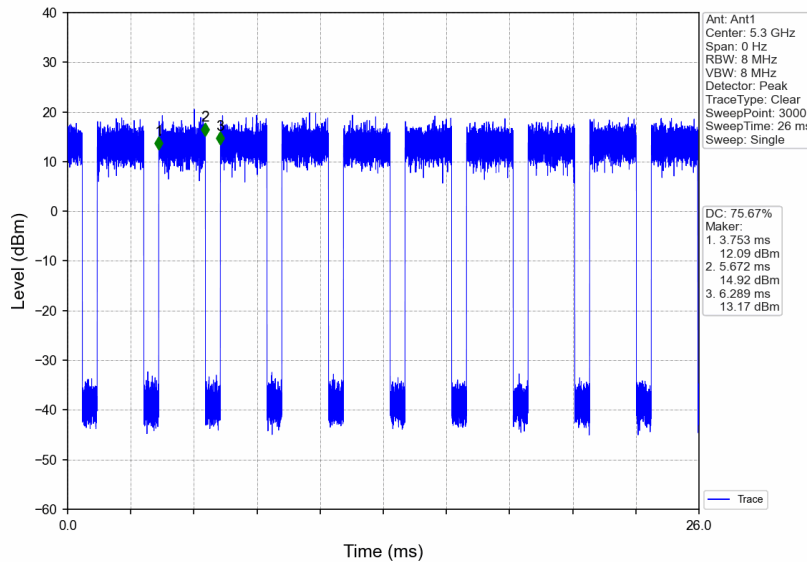
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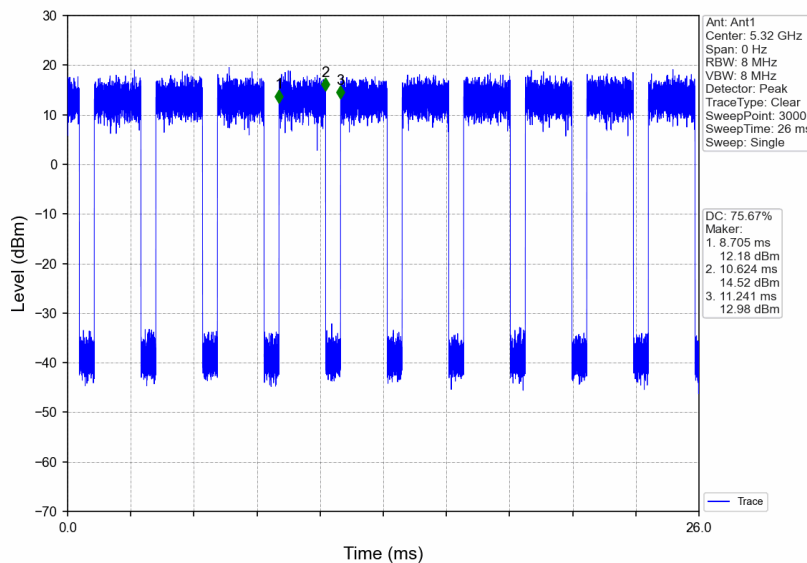
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802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



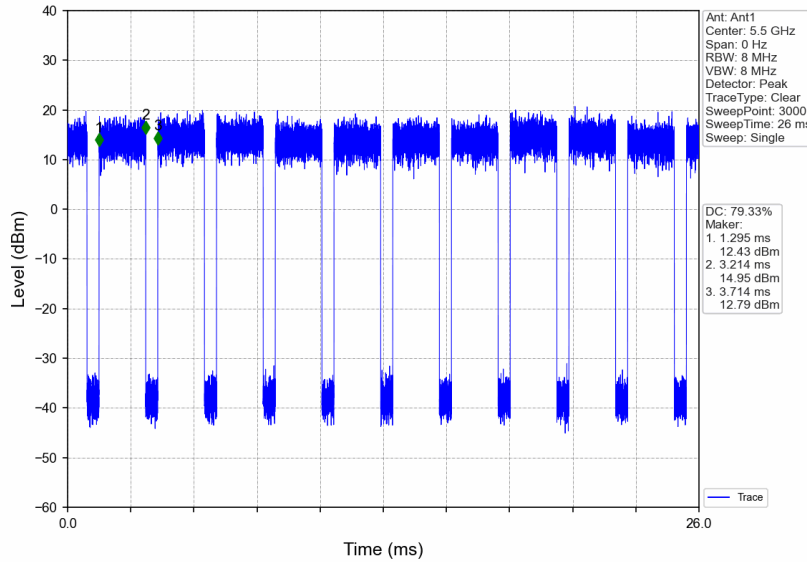
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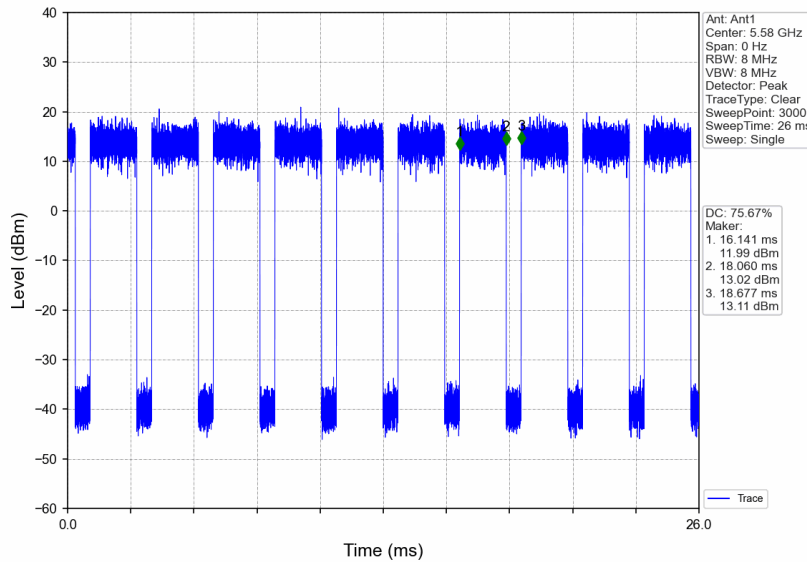
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



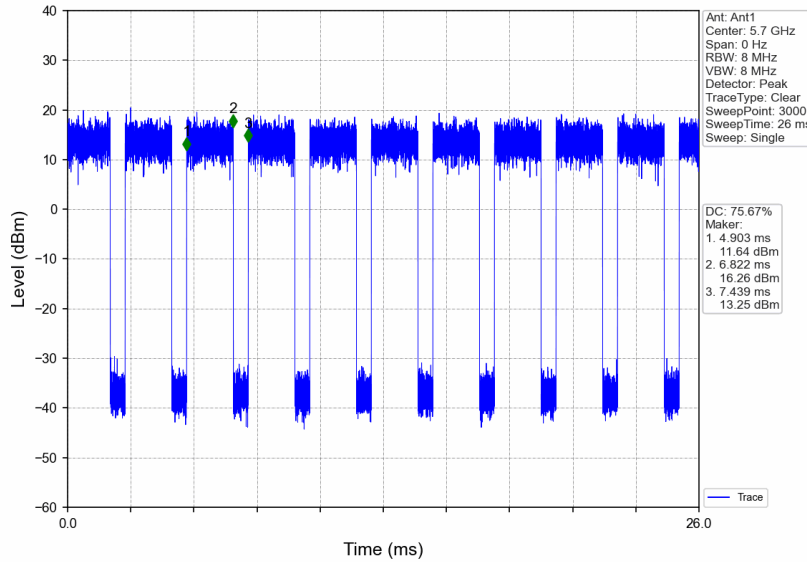
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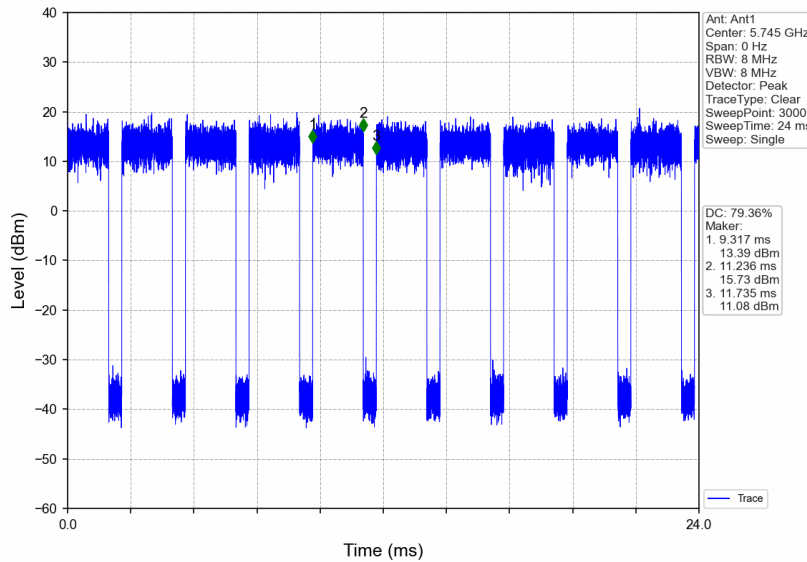
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV

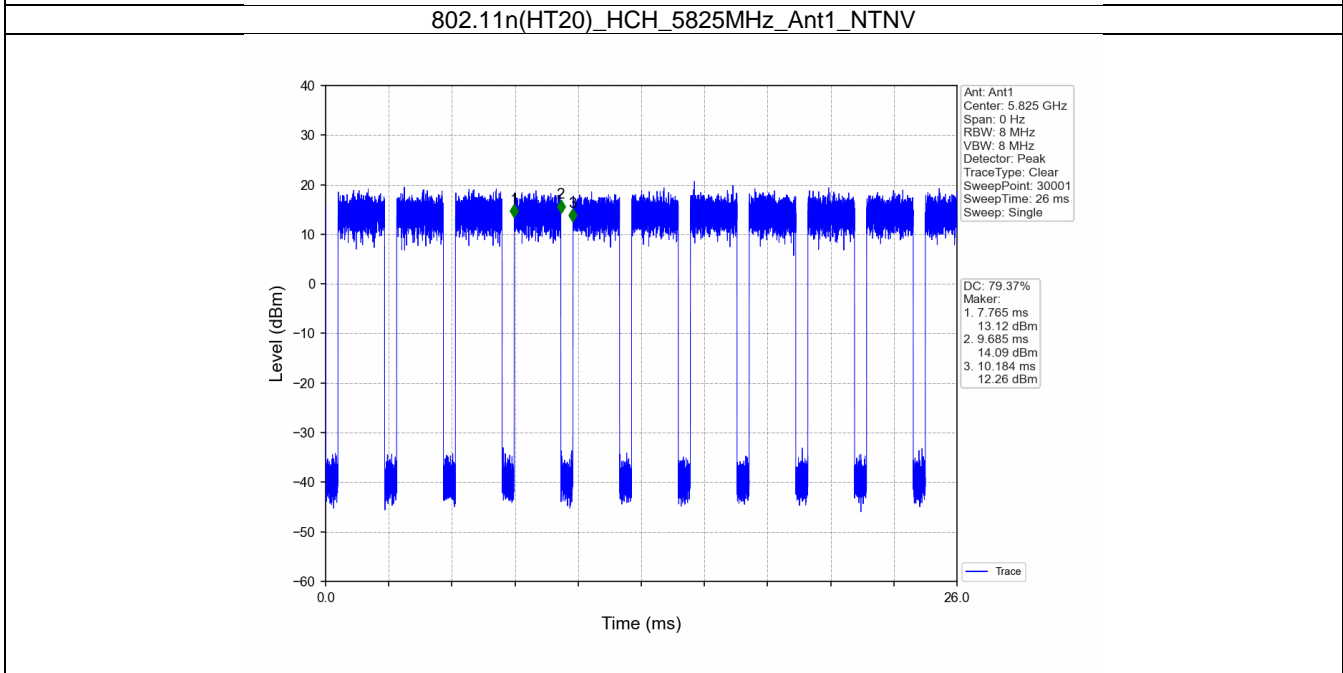
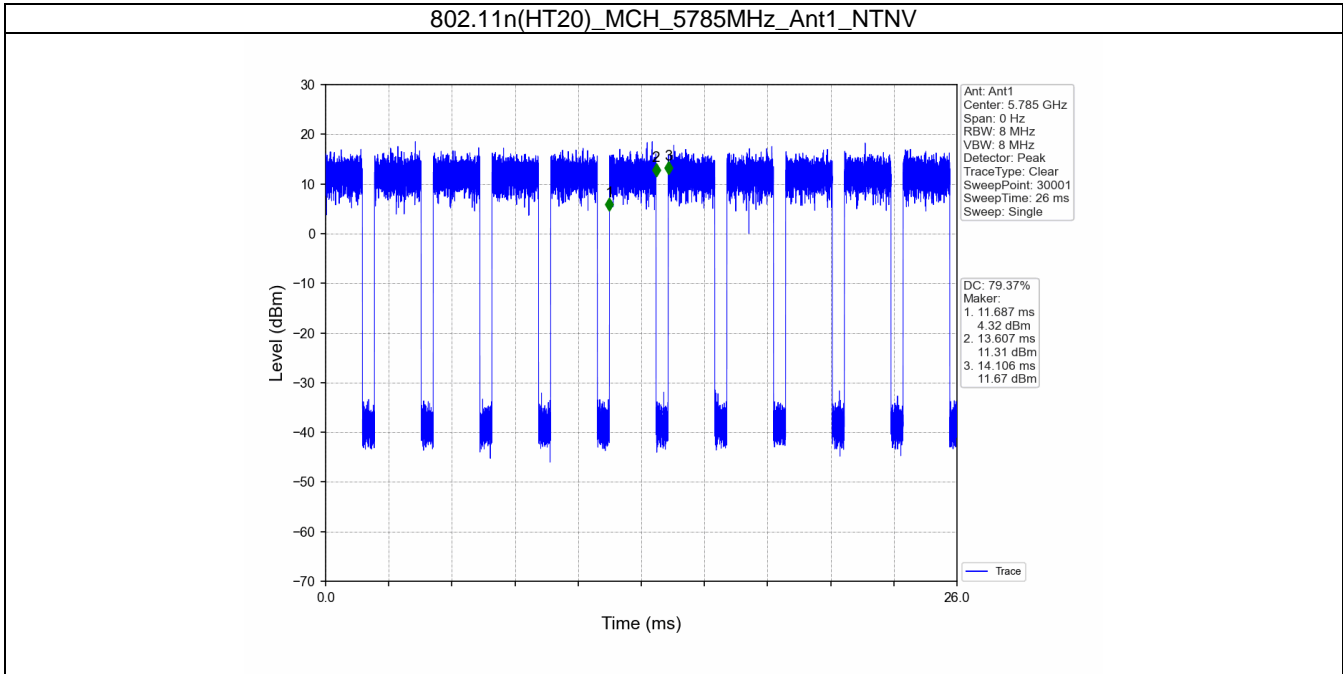


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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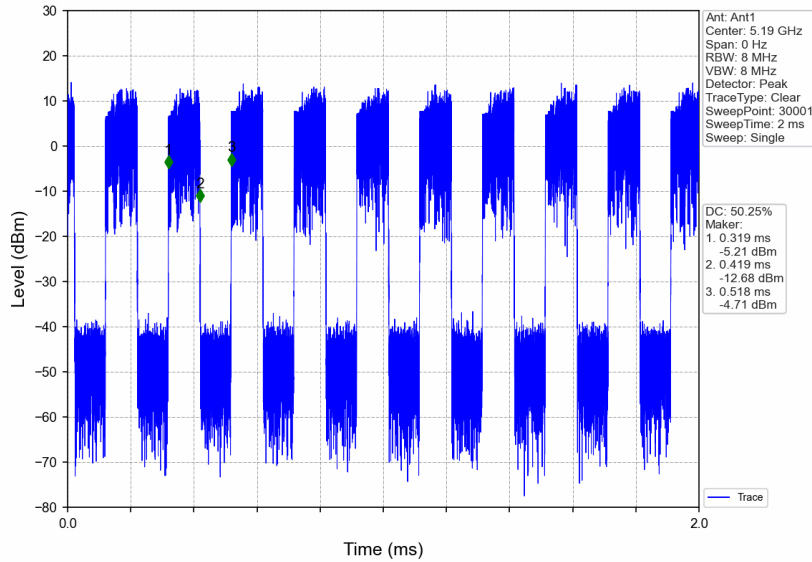
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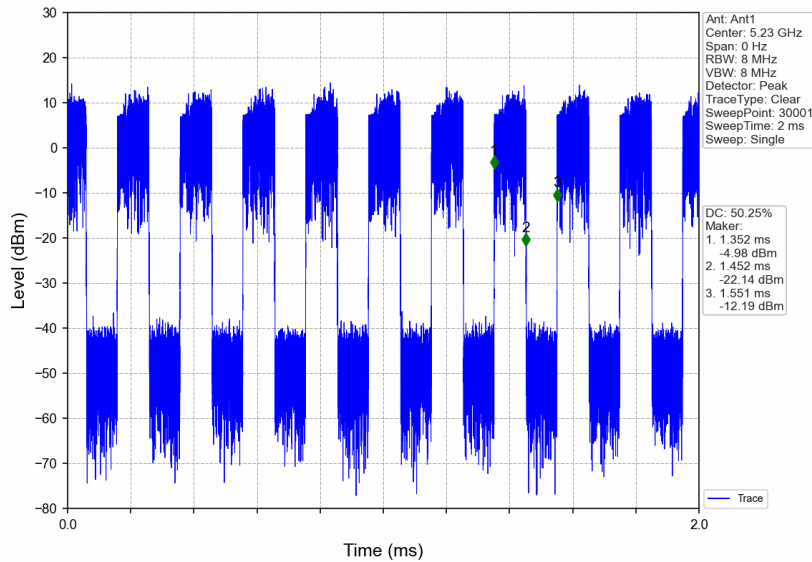
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

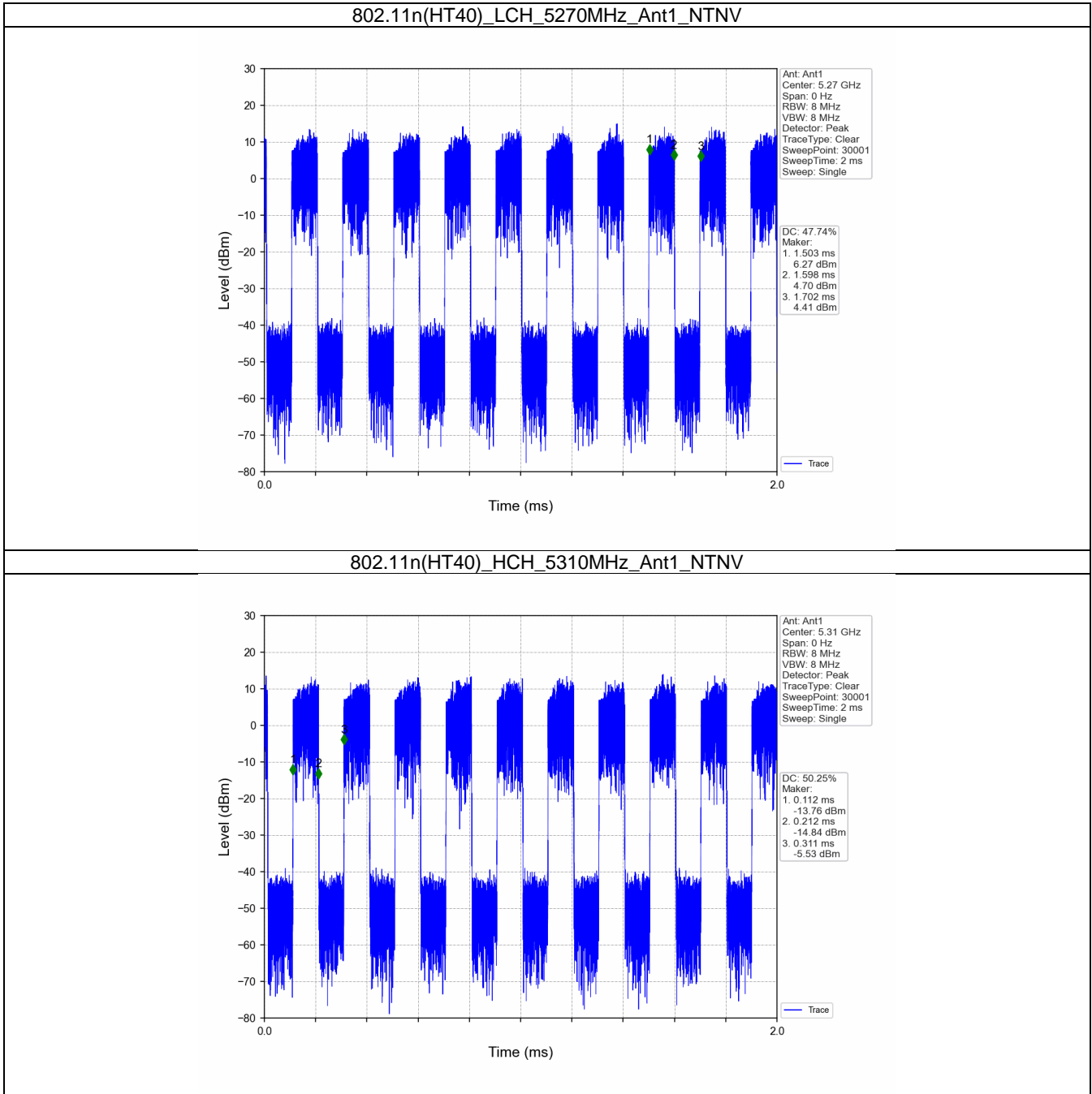


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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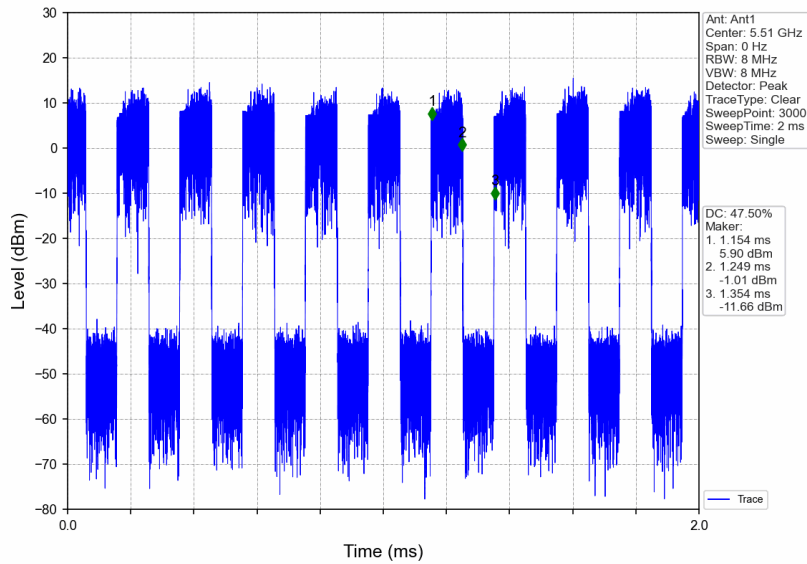
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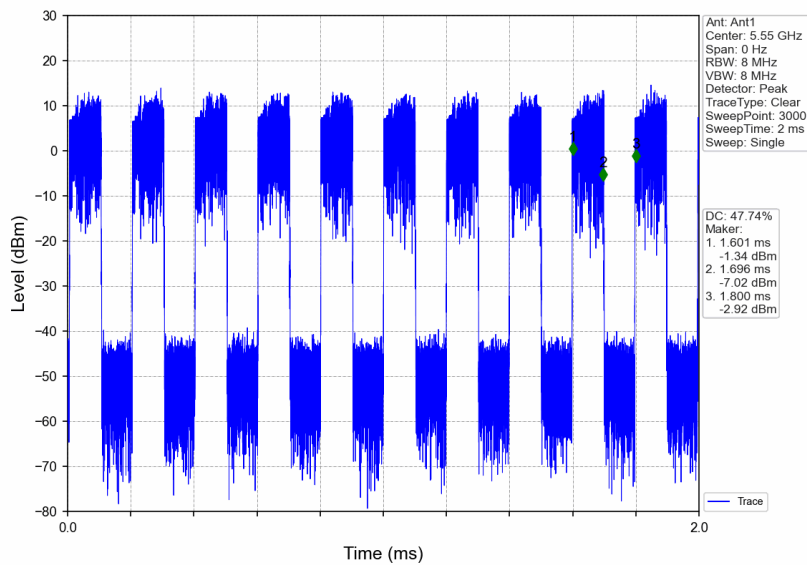
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802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



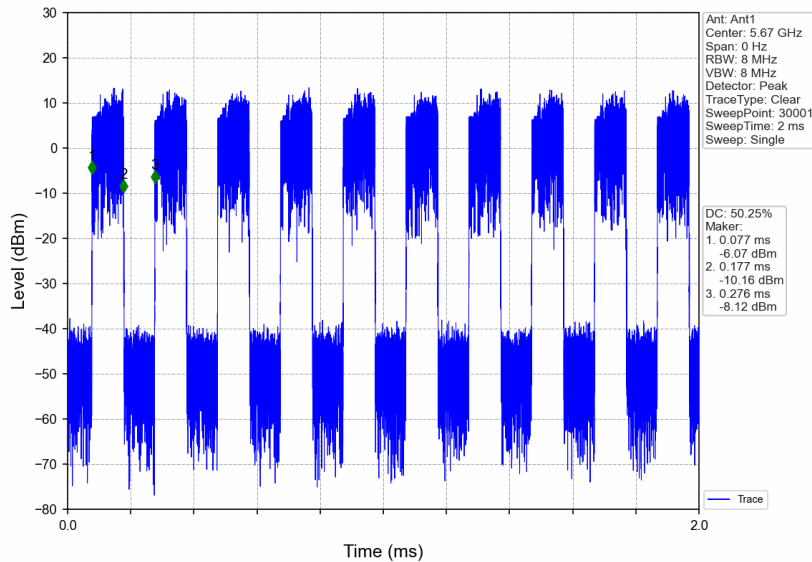
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



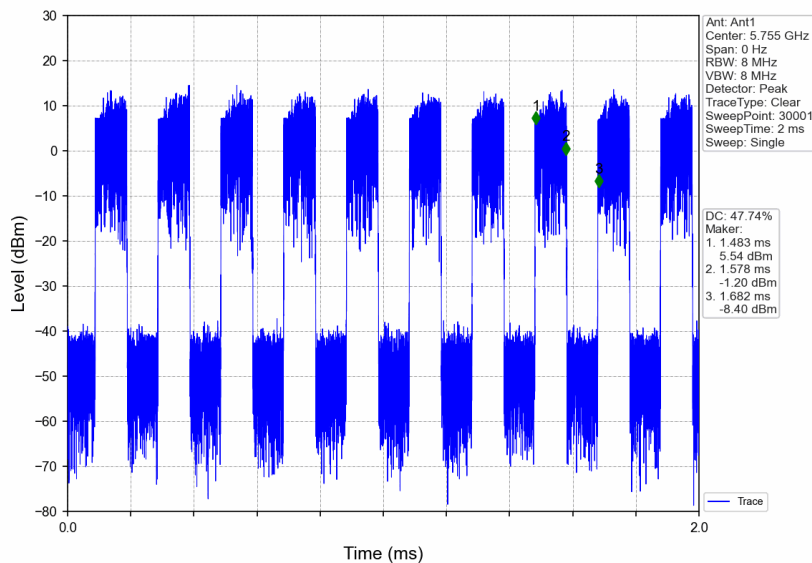
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



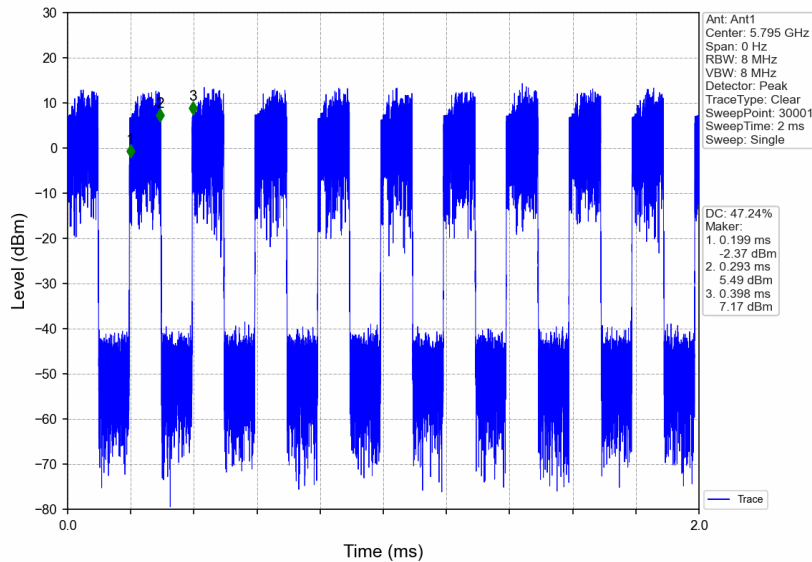
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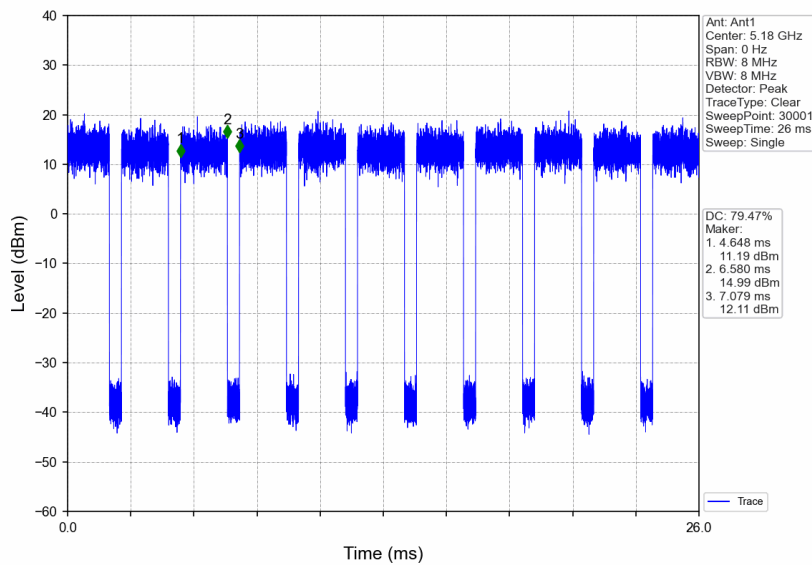
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

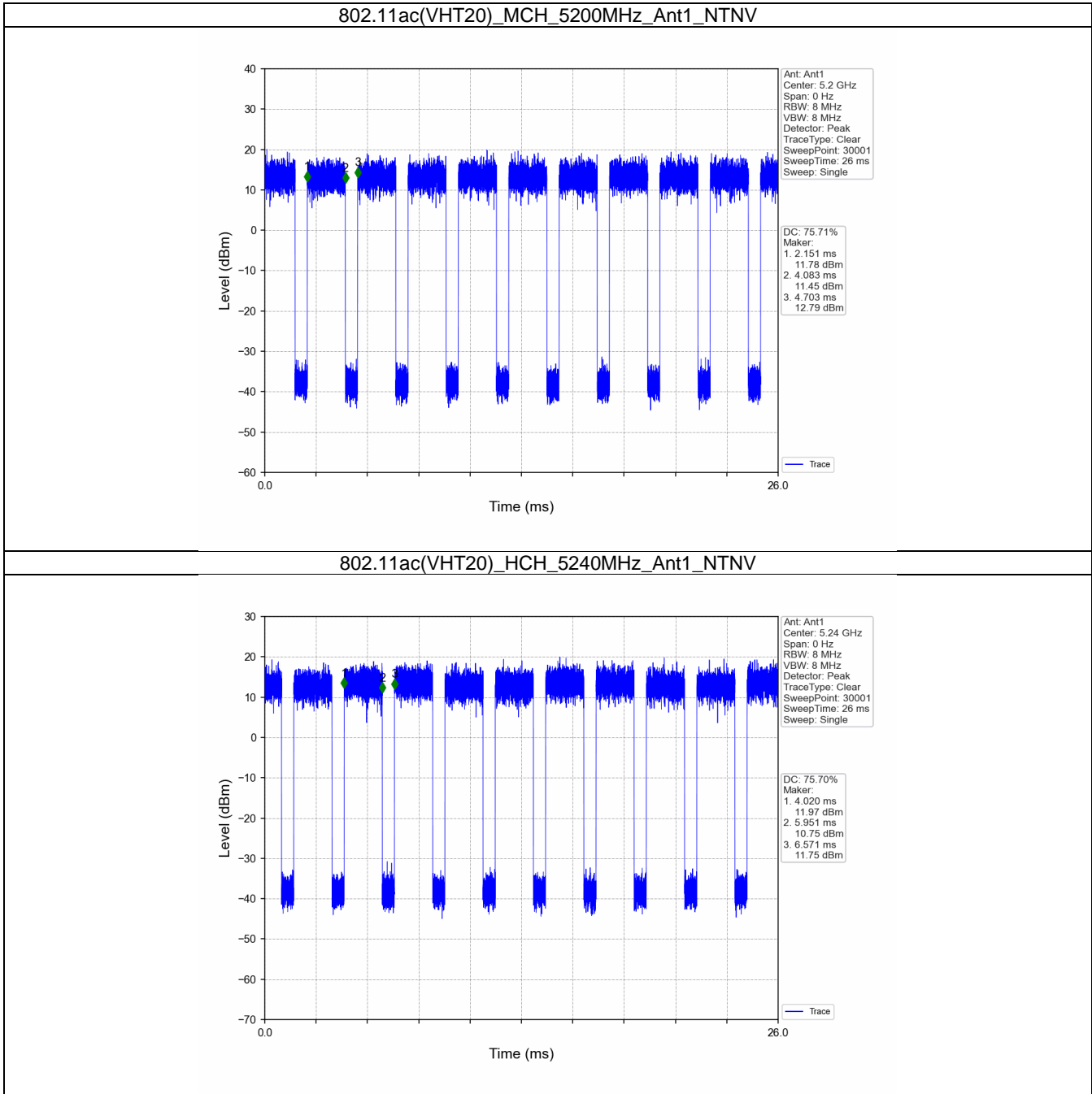


802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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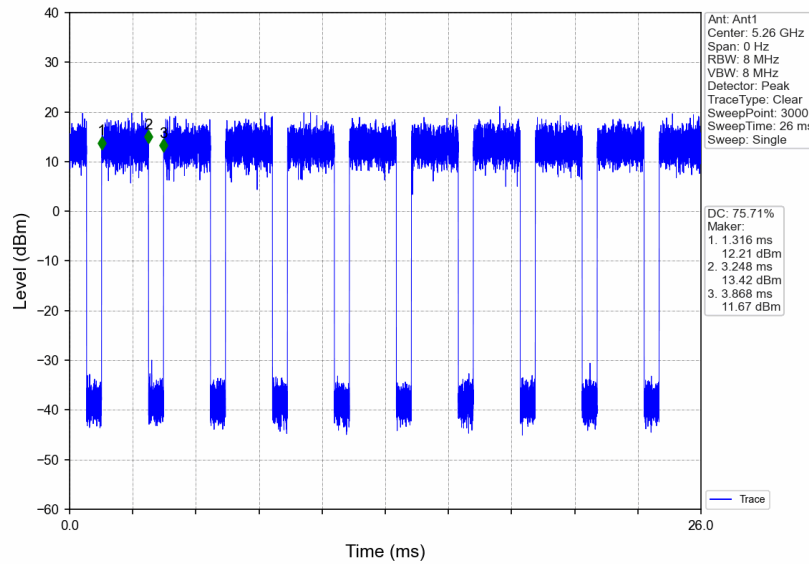
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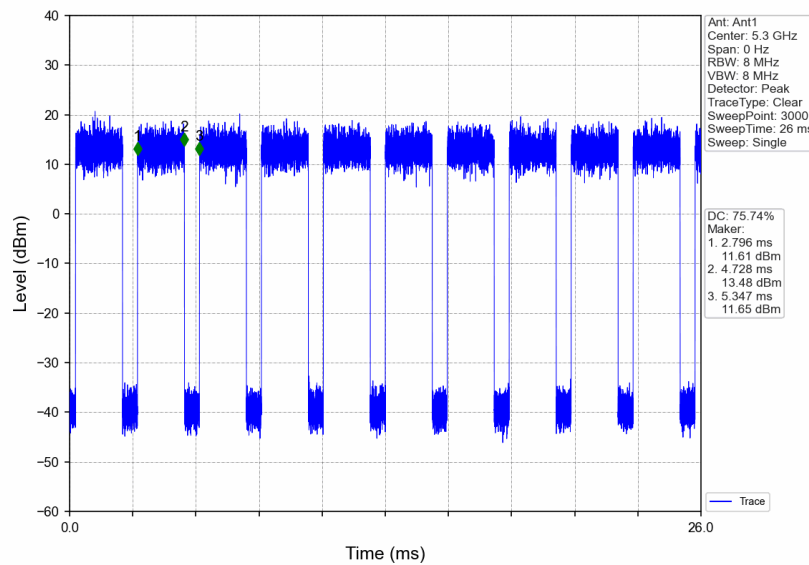
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV

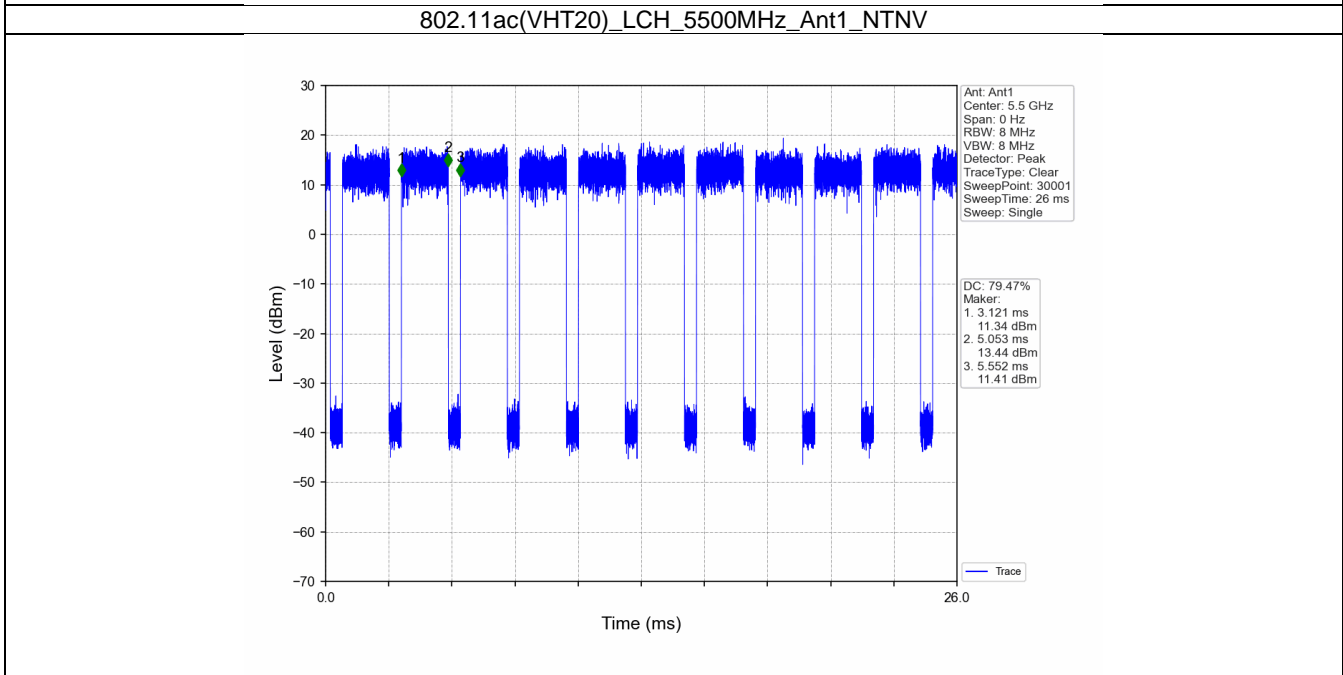
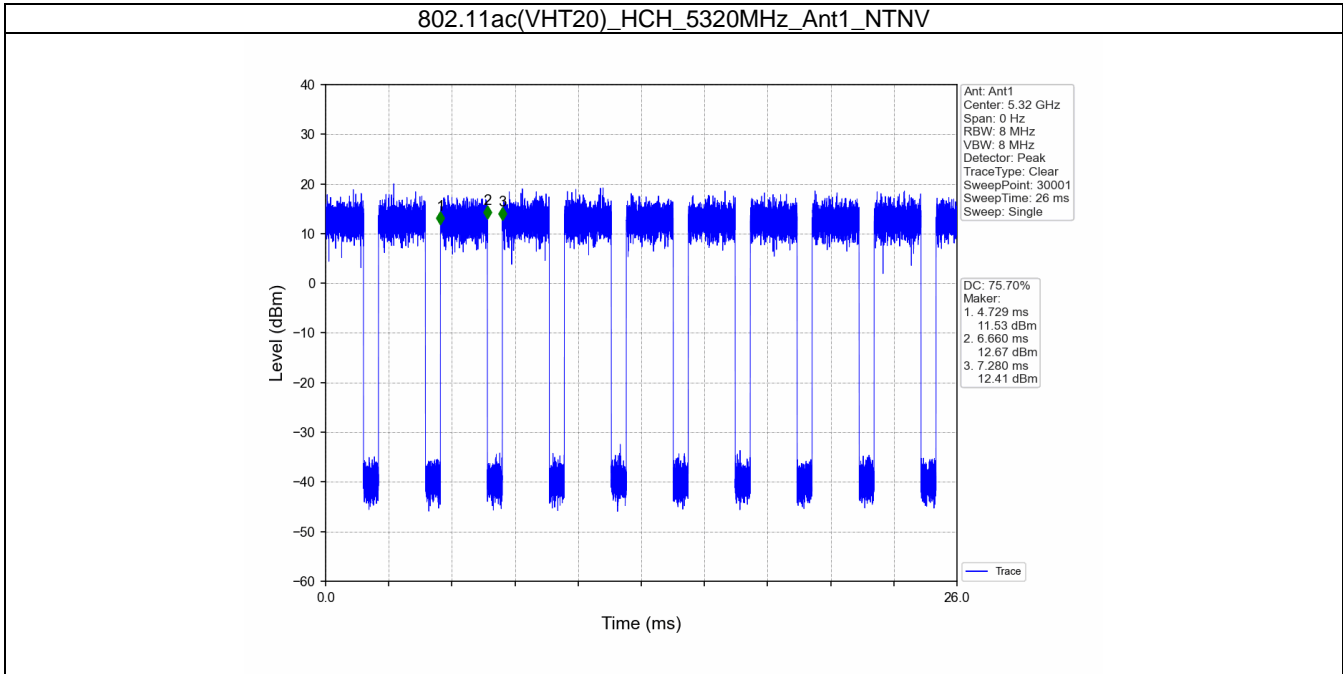


802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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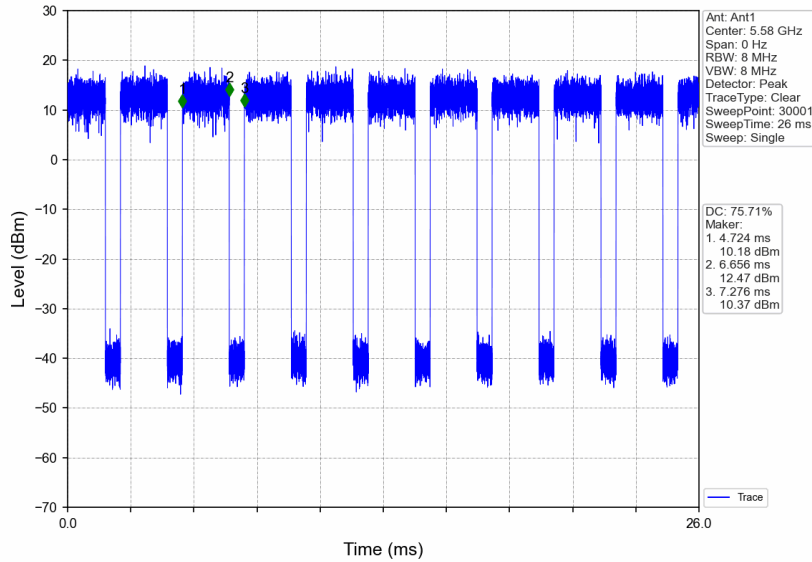
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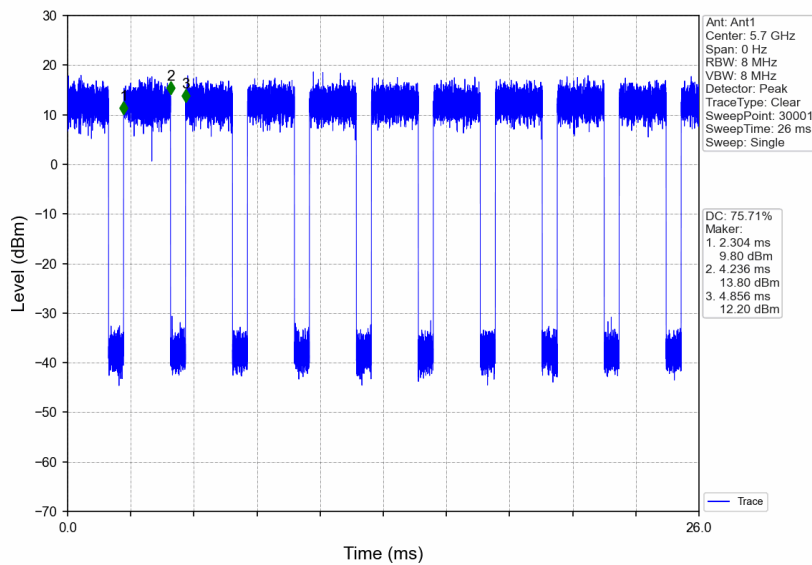
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



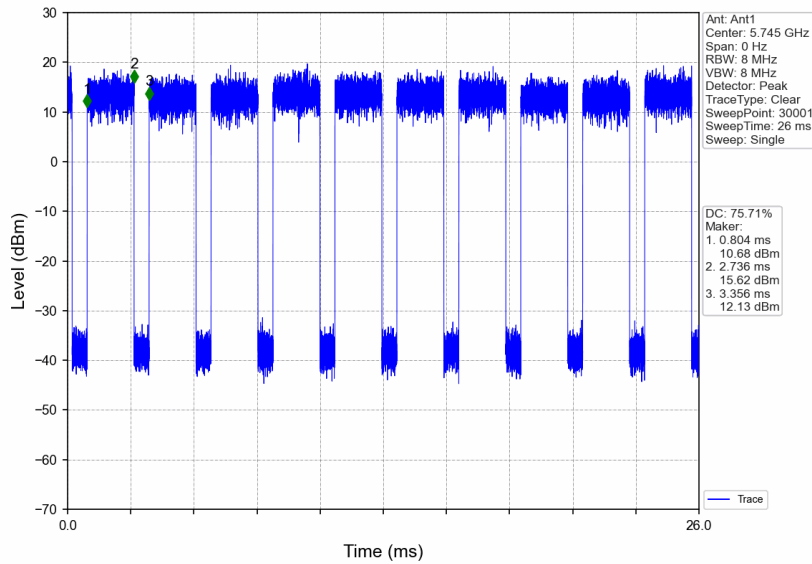
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



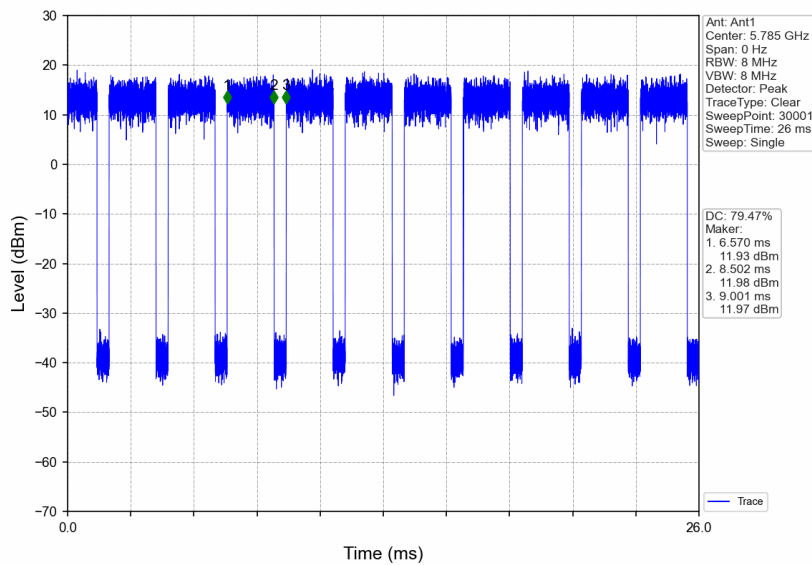
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

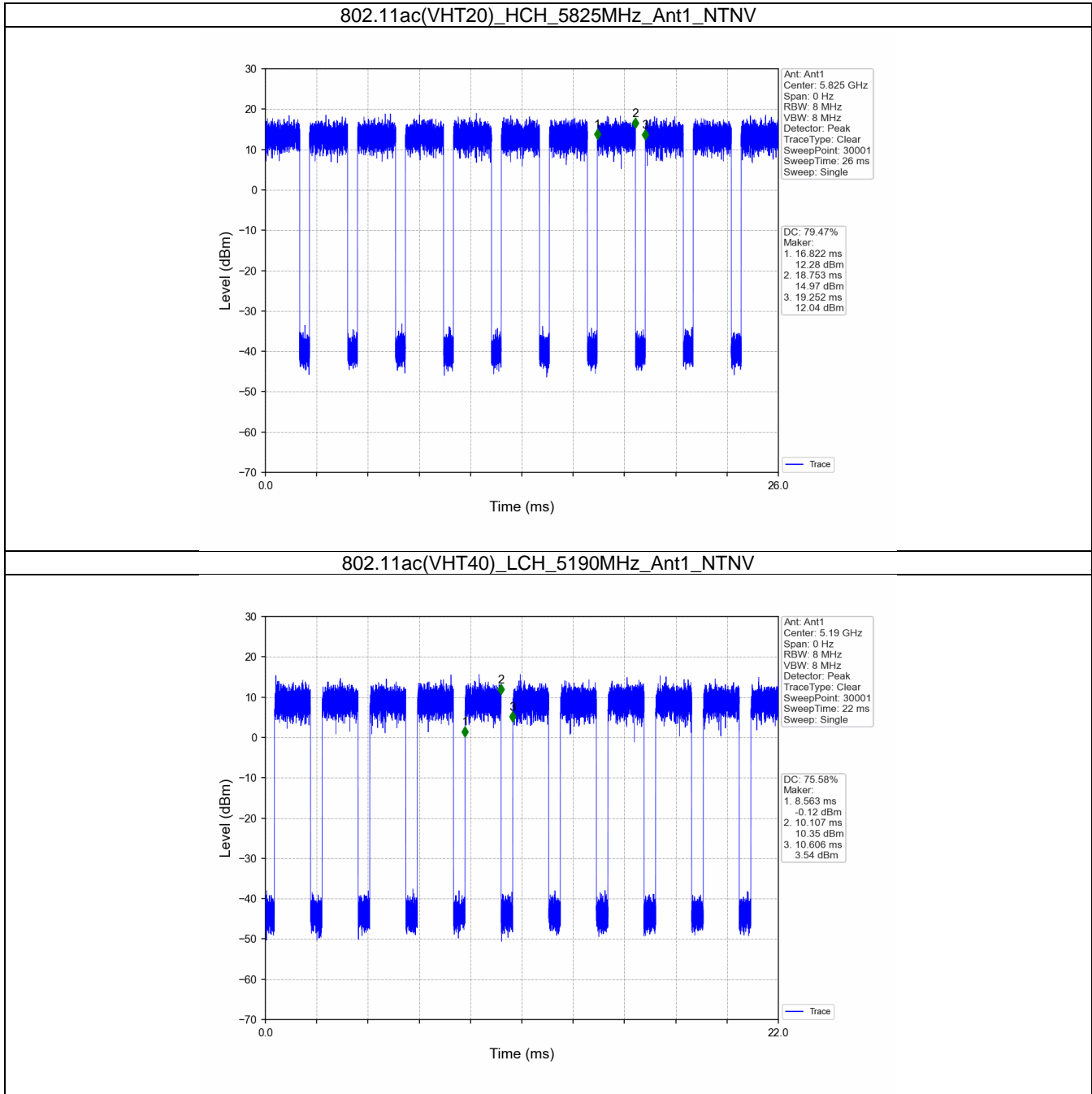


802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



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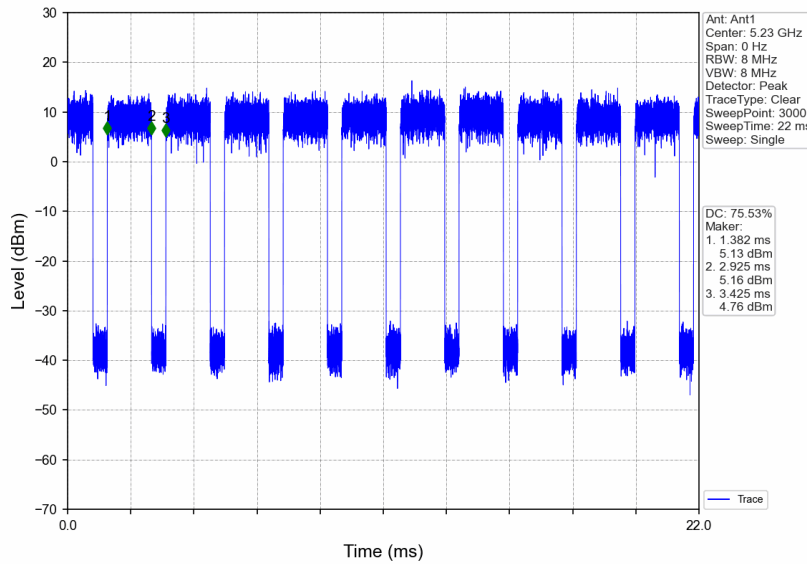
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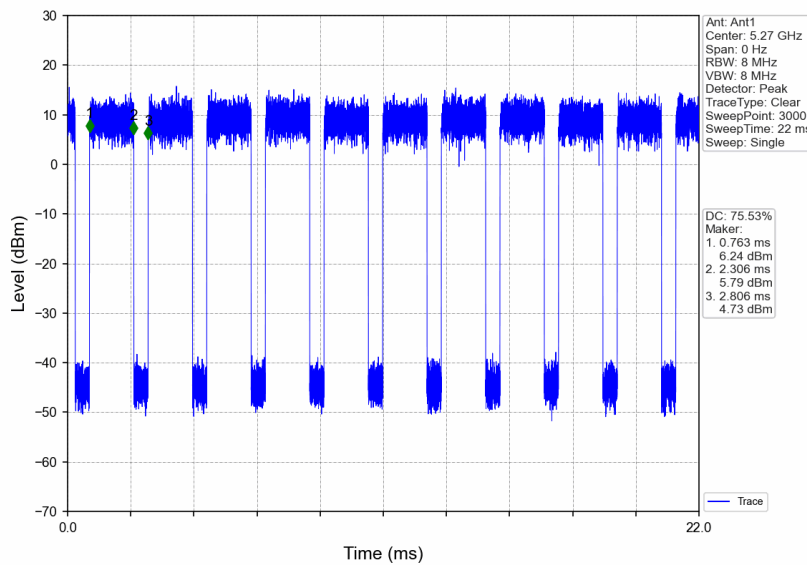
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



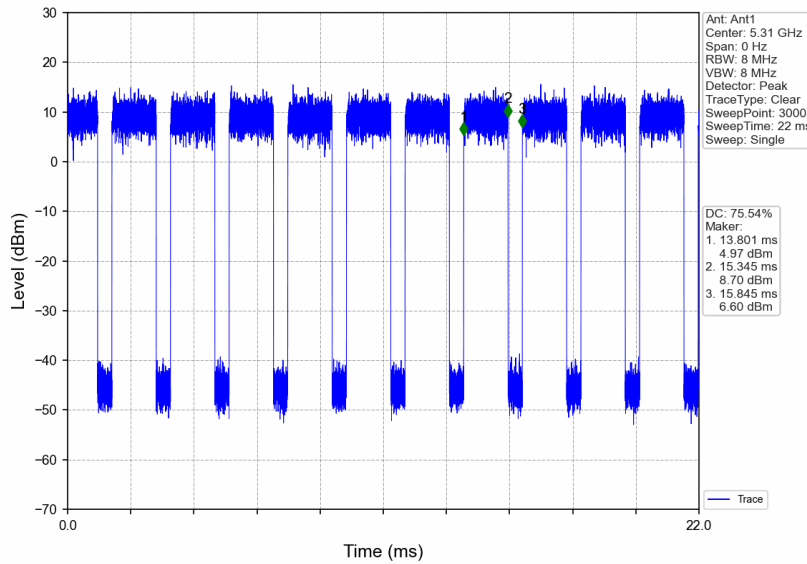
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



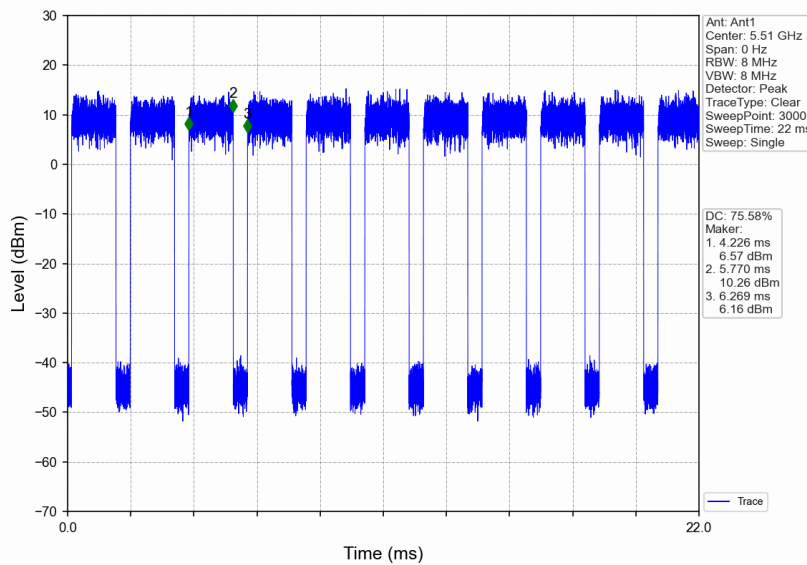
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV

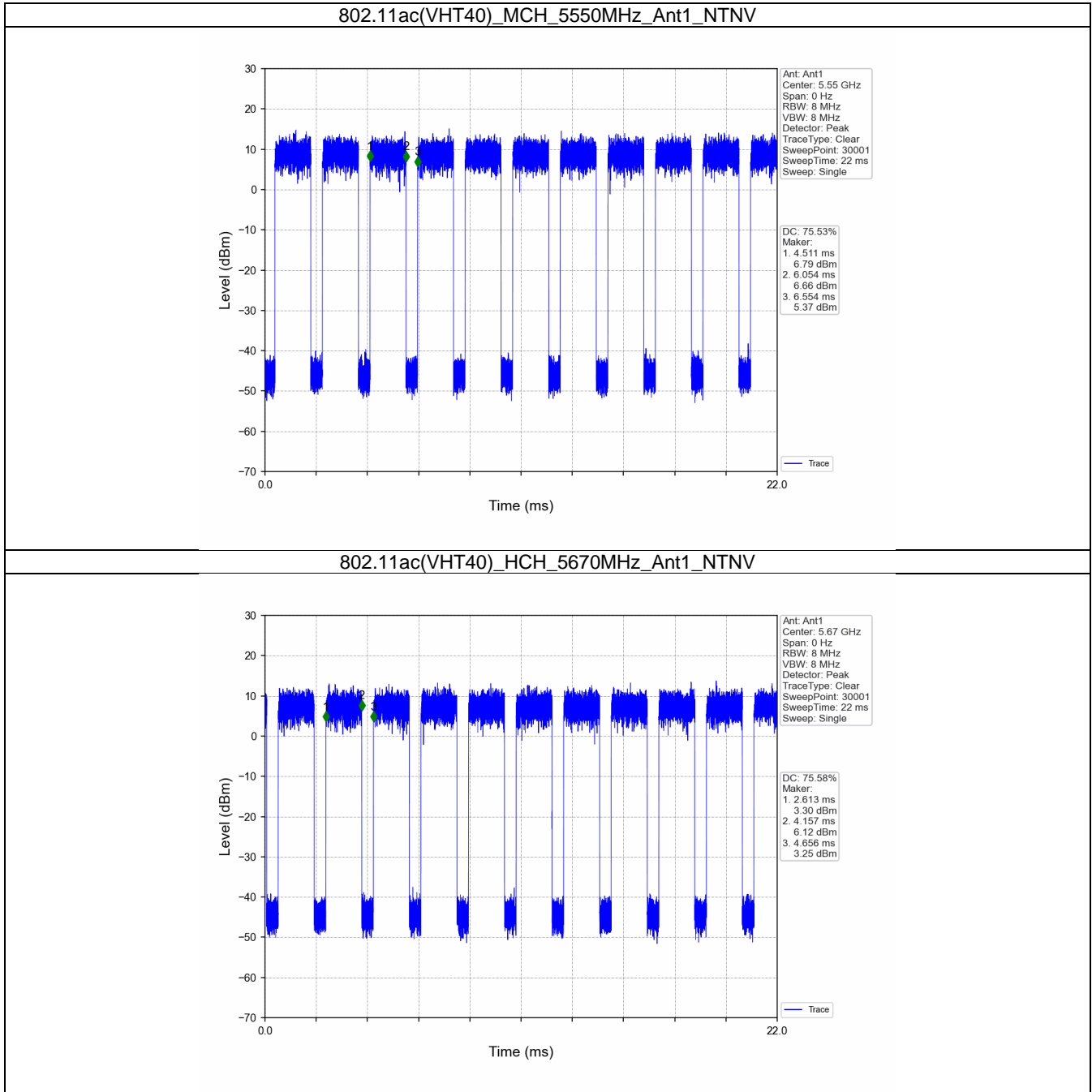


802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



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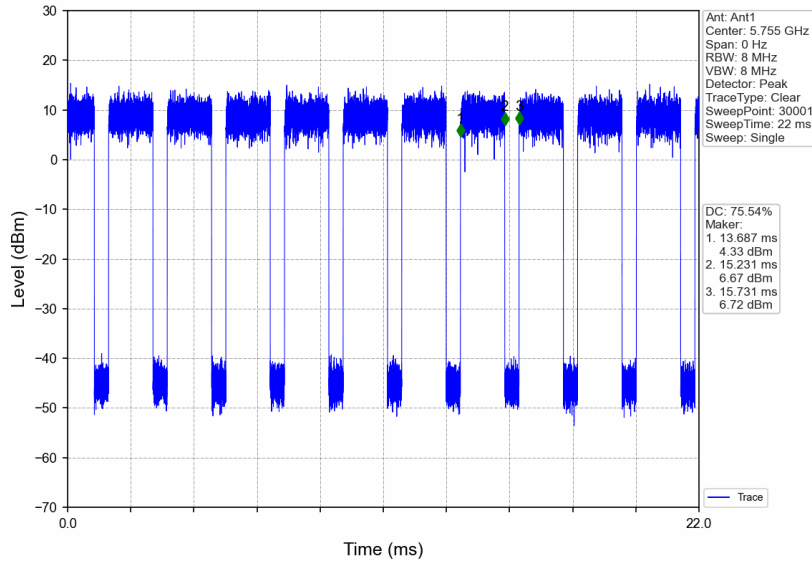
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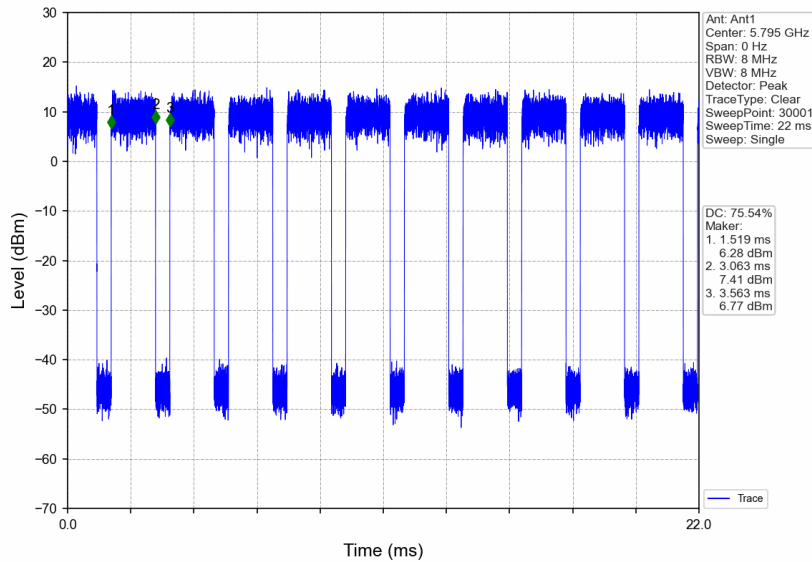
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



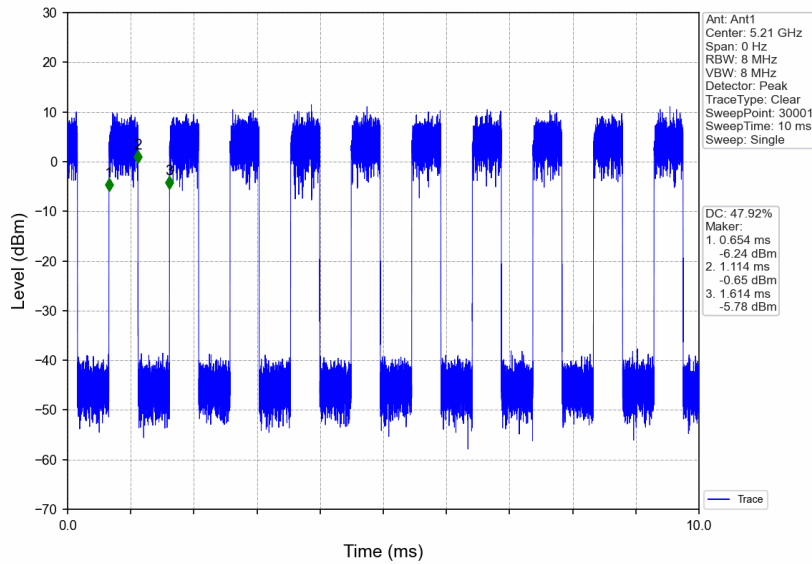
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



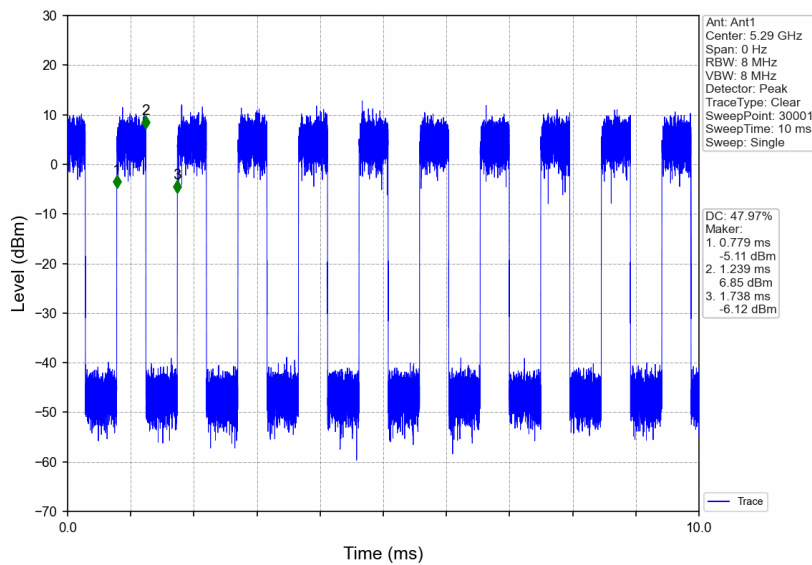
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



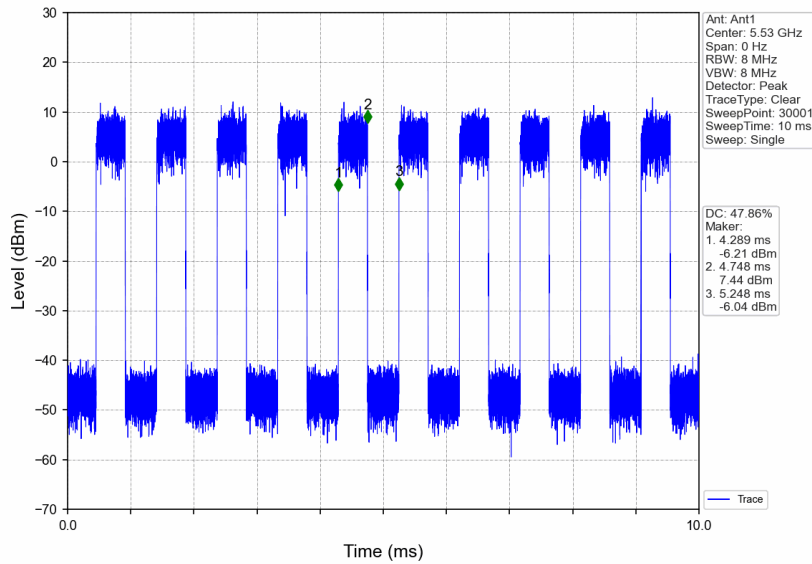
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



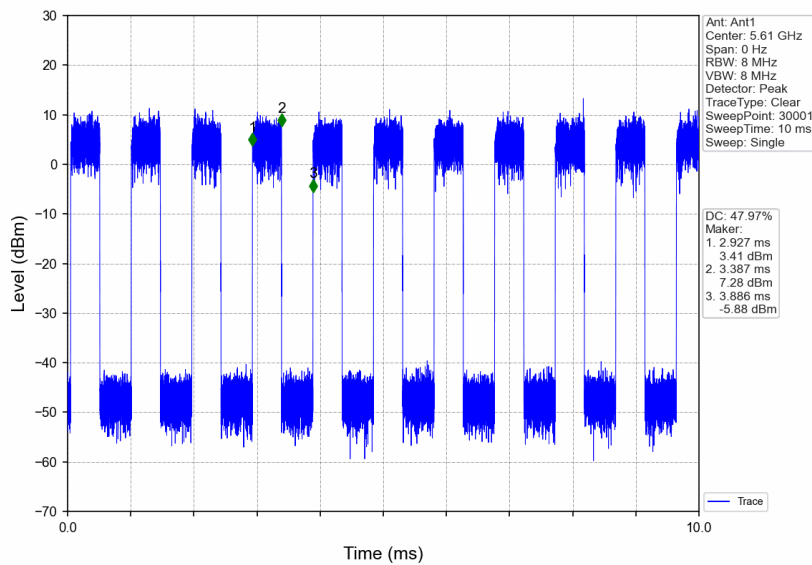
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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV

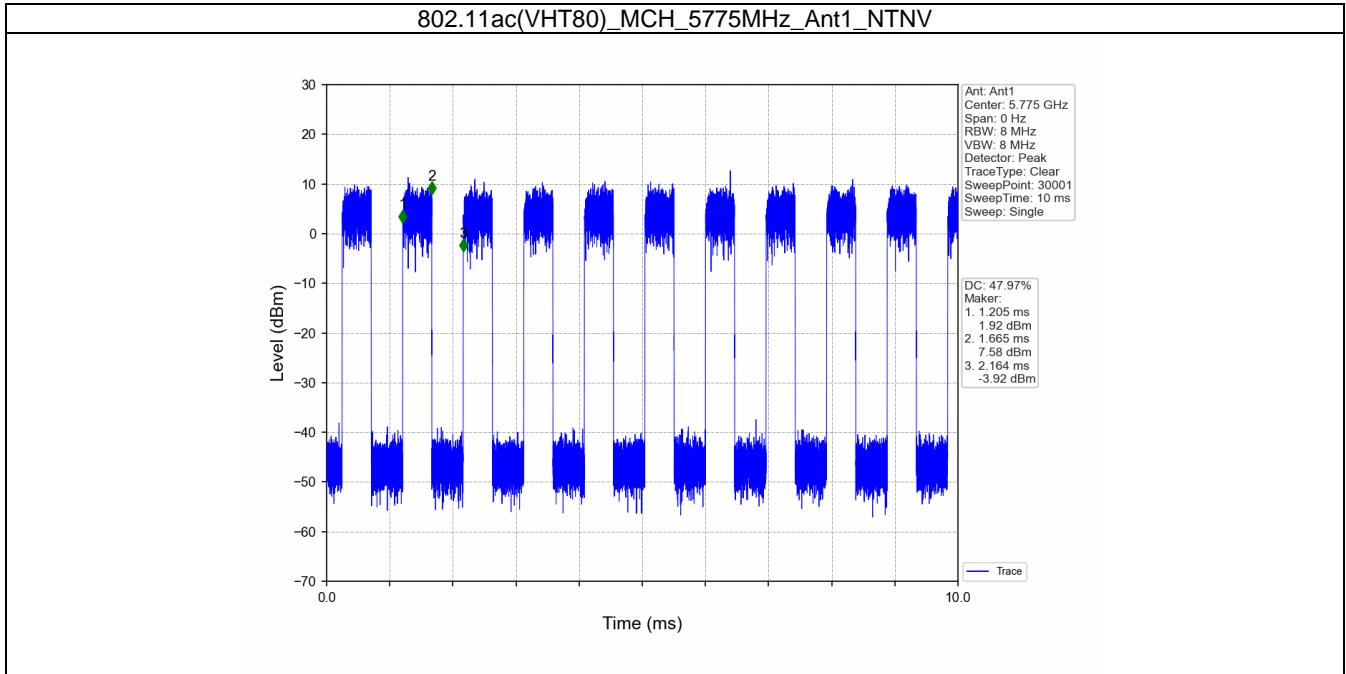


802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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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	17.947	Pass	
			2	17.739	Pass	
		5200	1	17.844	Pass	
			2	18.040	Pass	
		5240	1	18.051	Pass	
			2	17.988	Pass	
		5260	1	17.956	Pass	
			2	18.038	Pass	
		5300	1	18.034	Pass	
			2	18.047	Pass	
		5320	1	18.089	Pass	
			2	18.126	Pass	
		5500	1	17.876	Pass	
			2	19.164	Pass	
		5580	1	17.930	Pass	
			2	17.875	Pass	
		5700	1	17.865	Pass	
			2	18.047	Pass	
		5745	1	18.109	Pass	
			2	17.932	Pass	
5785	1	17.998	Pass			
	2	18.056	Pass			
5825	1	18.026	Pass			
	2	18.183	Pass			
802.11n (HT20)	MIMO	5180	1	18.595	Pass	
			2	18.701	Pass	
		5200	1	18.776	Pass	
			2	18.716	Pass	
		5240	1	18.798	Pass	
			2	18.678	Pass	
		5260	1	18.684	Pass	
			2	18.694	Pass	
		5300	1	18.608	Pass	
			2	18.661	Pass	
		5320	1	18.678	Pass	
			2	18.710	Pass	
		5500	1	18.673	Pass	
			2	18.631	Pass	
		5580	1	18.649	Pass	
			2	18.836	Pass	
		5700	1	18.744	Pass	
			2	18.682	Pass	
		5745	1	18.640	Pass	
			2	18.773	Pass	
5785	1	18.411	Pass			
	2	18.628	Pass			



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		5825	1	18.638	Pass
			2	18.659	Pass
802.11n (HT40)	MIMO	5190	1	36.828	Pass
			2	36.834	Pass
		5230	1	36.807	Pass
			2	36.866	Pass
		5270	1	36.861	Pass
			2	36.837	Pass
		5310	1	36.881	Pass
			2	36.838	Pass
		5510	1	36.730	Pass
			2	36.787	Pass
		5550	1	36.824	Pass
			2	36.807	Pass
		5670	1	36.741	Pass
			2	36.723	Pass
5755	1	36.859	Pass		
	2	36.845	Pass		
5795	1	36.832	Pass		
	2	37.181	Pass		
802.11ac (VHT20)	MIMO	5180	1	18.881	Pass
			2	18.839	Pass
		5200	1	18.779	Pass
			2	18.747	Pass
		5240	1	18.859	Pass
			2	18.753	Pass
		5260	1	18.778	Pass
			2	18.745	Pass
		5300	1	18.751	Pass
			2	18.639	Pass
		5320	1	18.757	Pass
			2	18.804	Pass
		5500	1	18.720	Pass
			2	18.711	Pass
		5580	1	18.691	Pass
			2	18.771	Pass
		5700	1	18.703	Pass
			2	18.667	Pass
5745	1	18.647	Pass		
	2	18.739	Pass		
5785	1	18.701	Pass		
	2	18.671	Pass		
5825	1	18.614	Pass		
	2	18.739	Pass		
802.11ac (VHT40)	MIMO	5190	1	36.812	Pass
			2	36.773	Pass
		5230	1	36.906	Pass
			2	36.954	Pass
		5270	1	36.713	Pass
			2	36.769	Pass
		5310	1	36.807	Pass
			2	36.720	Pass
5510	1	36.710	Pass		
	2	36.748	Pass		
5550	1	36.696	Pass		



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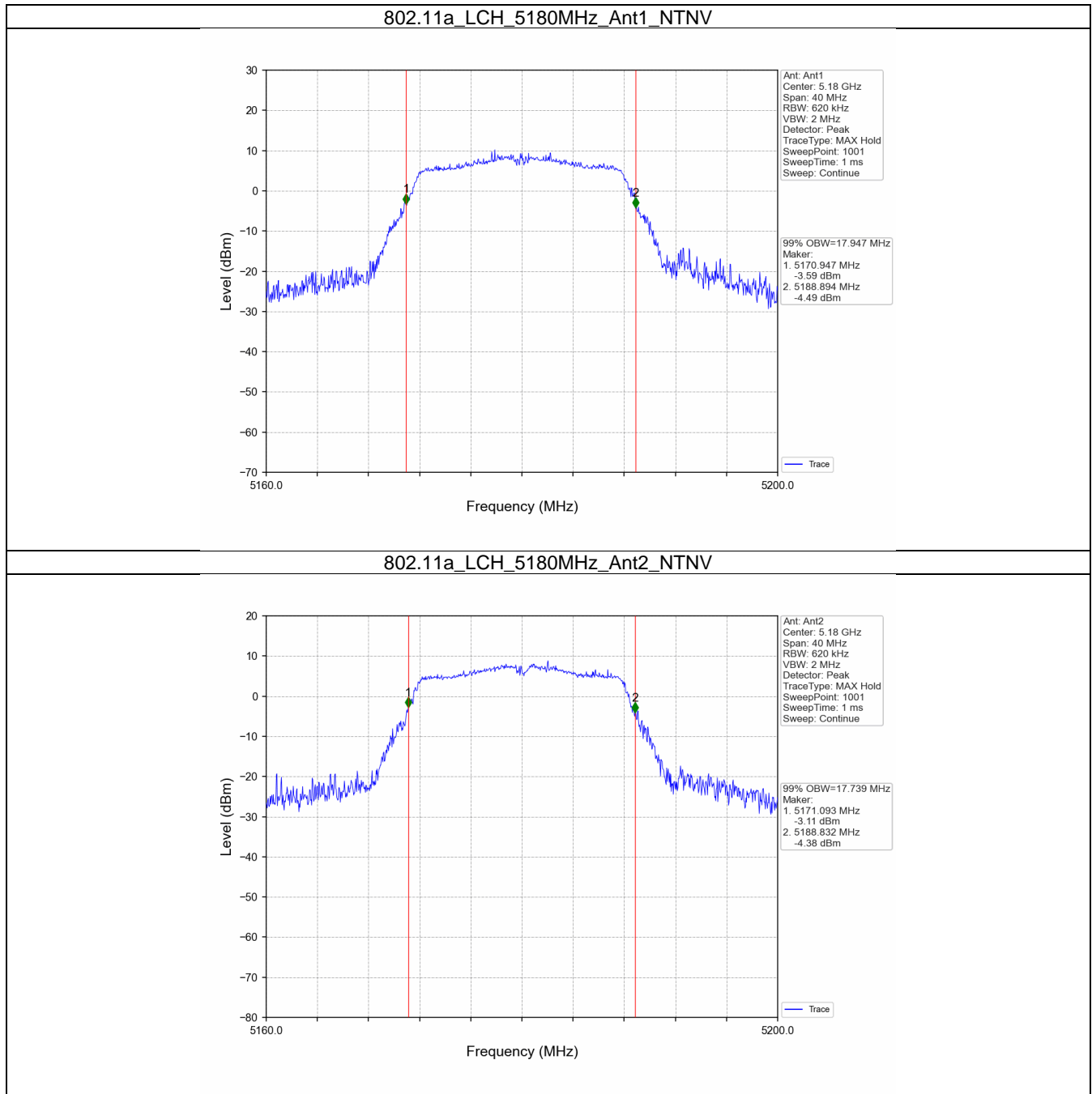
			2	36.742	Pass
		5670	1	36.782	Pass
			2	36.868	Pass
		5755	1	36.979	Pass
			2	36.874	Pass
		5795	1	36.807	Pass
			2	36.917	Pass
802.11ac (VHT80)	MIMO	5210	1	76.668	Pass
			2	76.681	Pass
		5290	1	76.535	Pass
			2	76.614	Pass
		5530	1	76.577	Pass
			2	76.495	Pass
		5610	1	76.719	Pass
			2	76.791	Pass
		5775	1	76.848	Pass
			2	76.765	Pass



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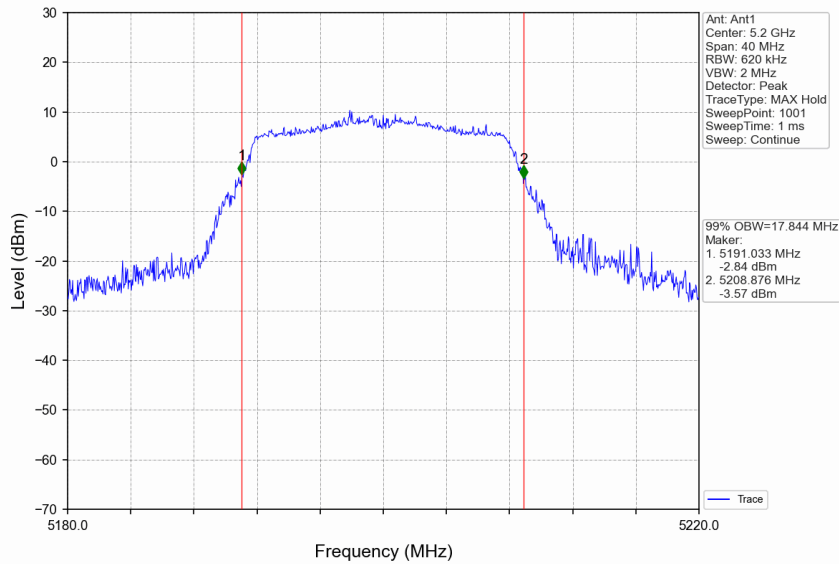
2.1.2 Test Graph



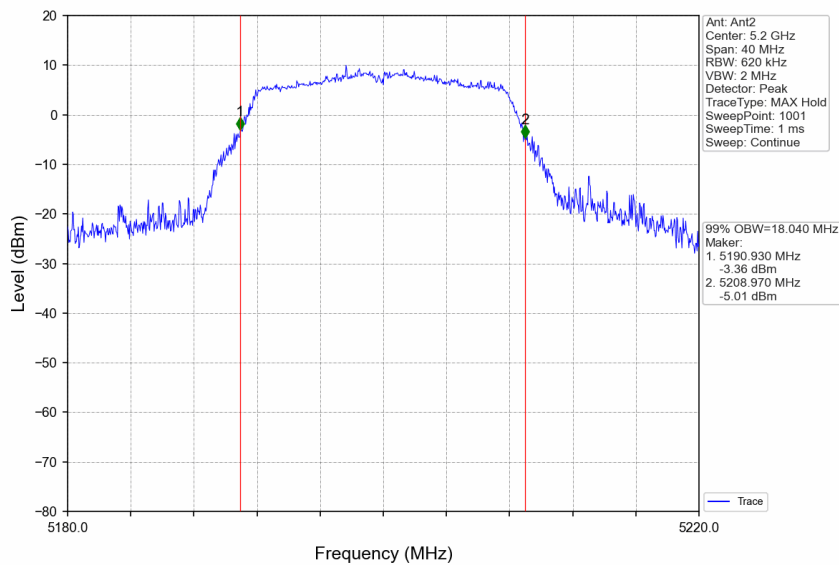
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802.11a_MCH_5200MHz_Ant1_NTNV



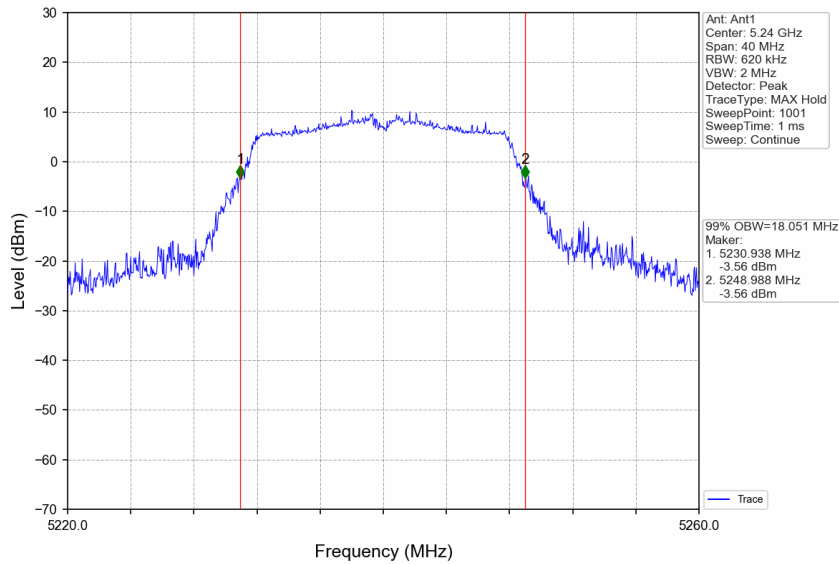
802.11a_MCH_5200MHz_Ant2_NTNV



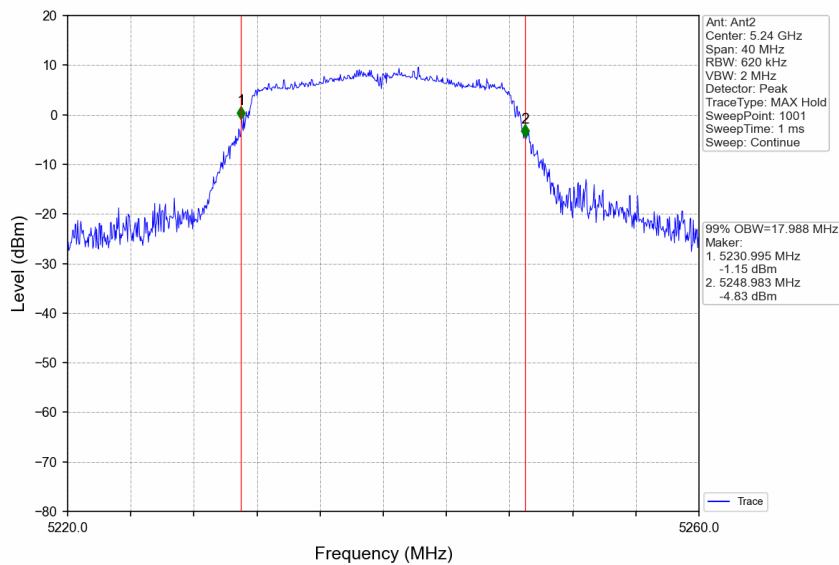
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802.11a_HCH_5240MHz_Ant1_NTNV



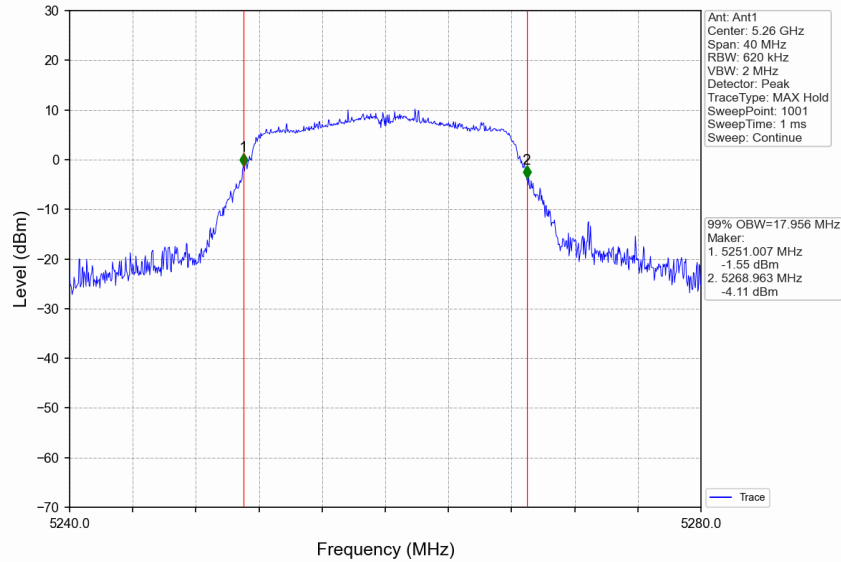
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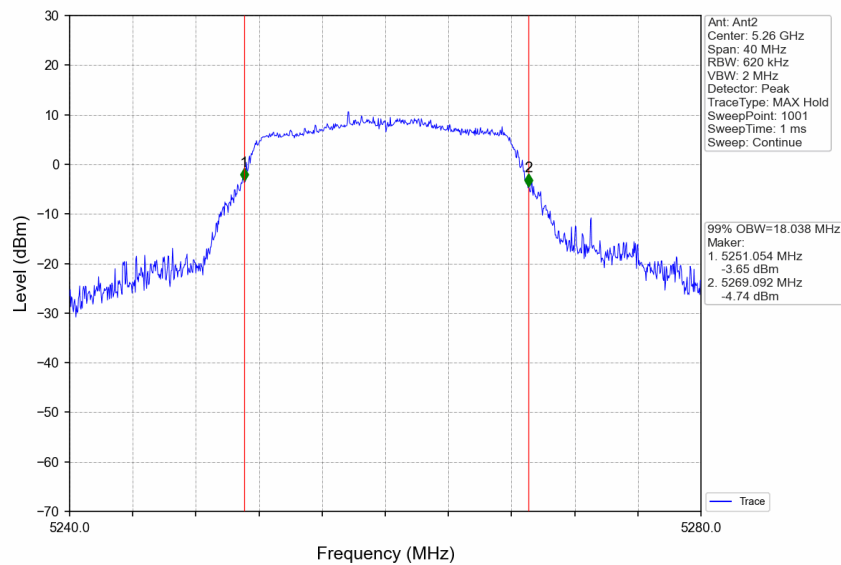
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802.11a_LCH_5260MHz_Ant1_NTNV

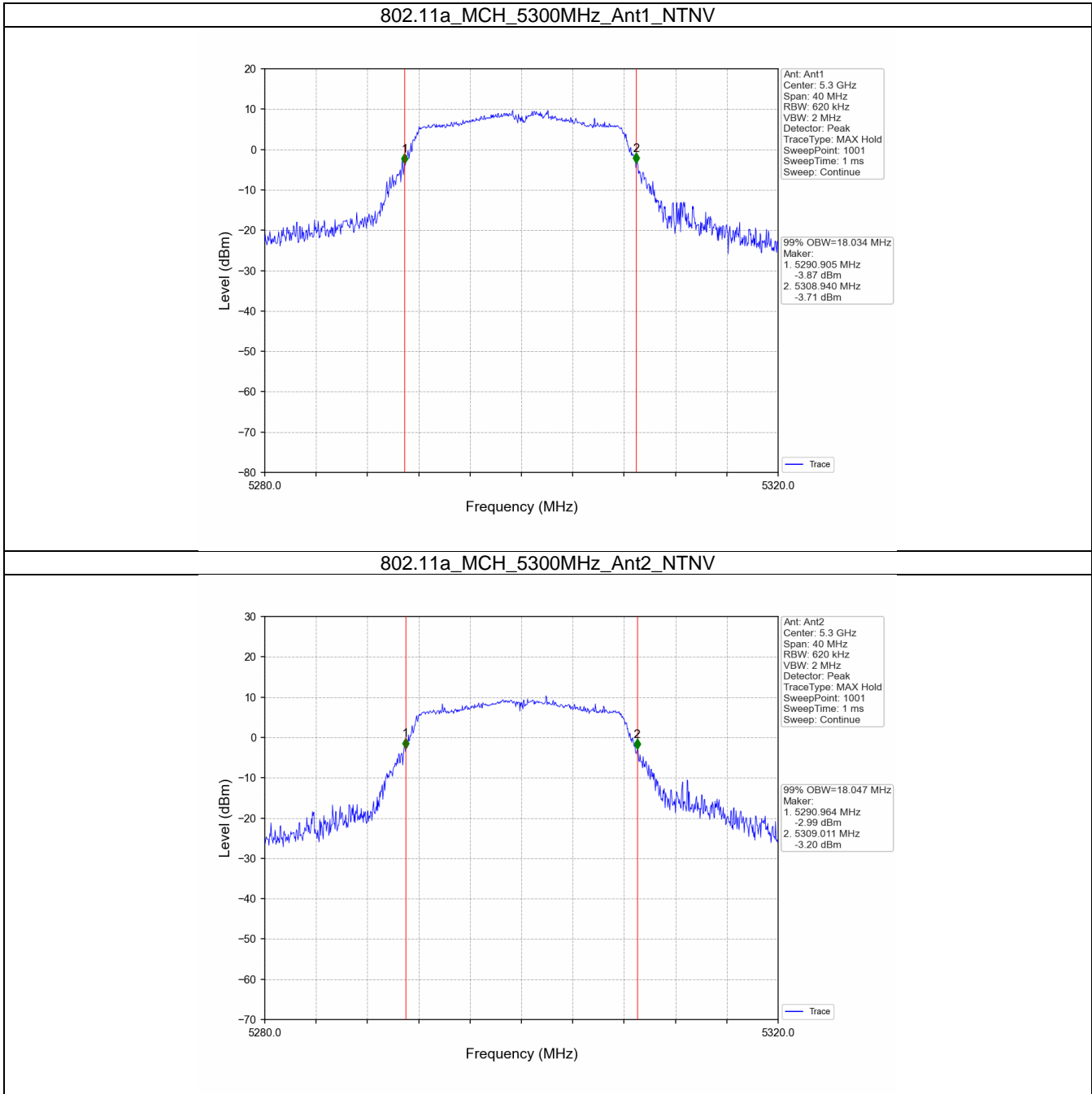


802.11a_LCH_5260MHz_Ant2_NTNV



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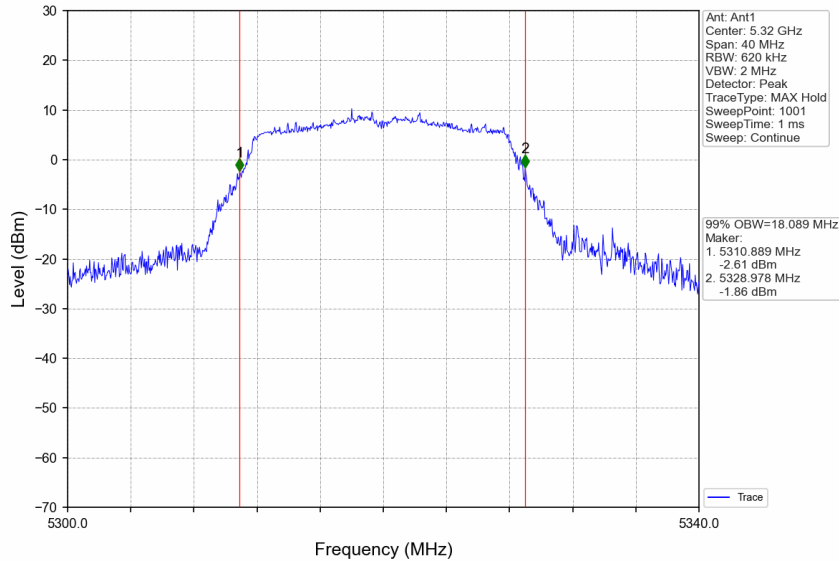
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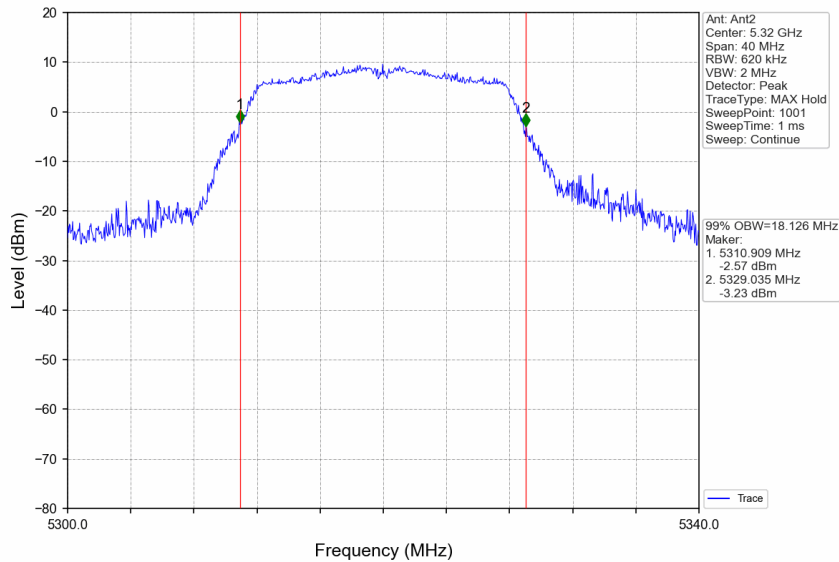
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802.11a_HCH_5320MHz_Ant1_NTNV



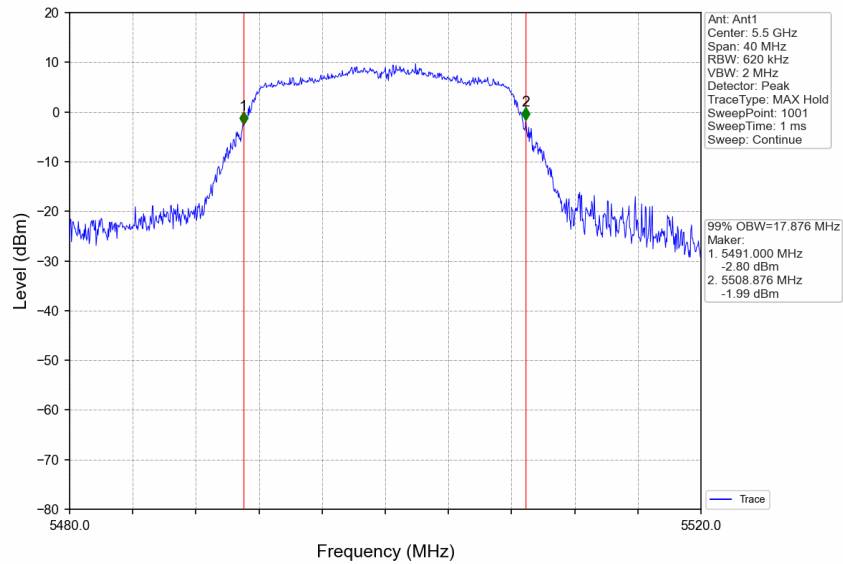
802.11a_HCH_5320MHz_Ant2_NTNV



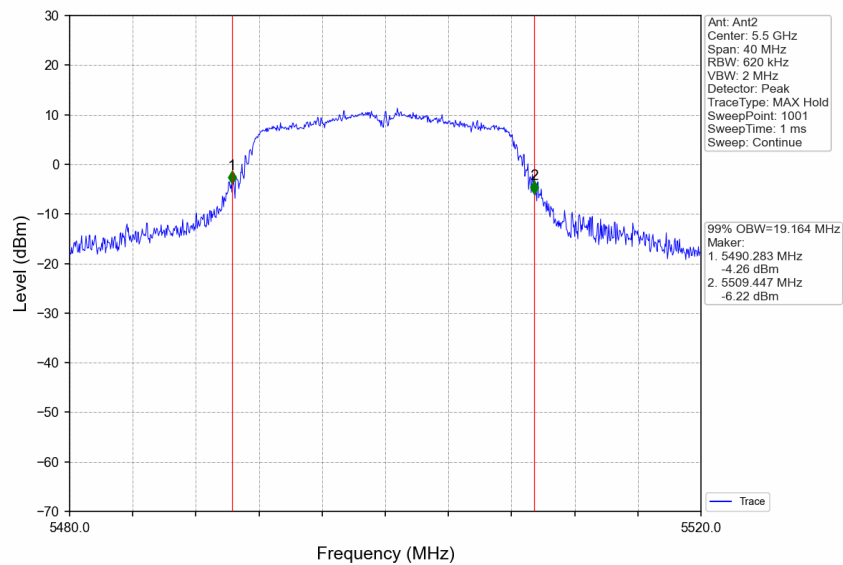
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802.11a_LCH_5500MHz_Ant1_NTNV



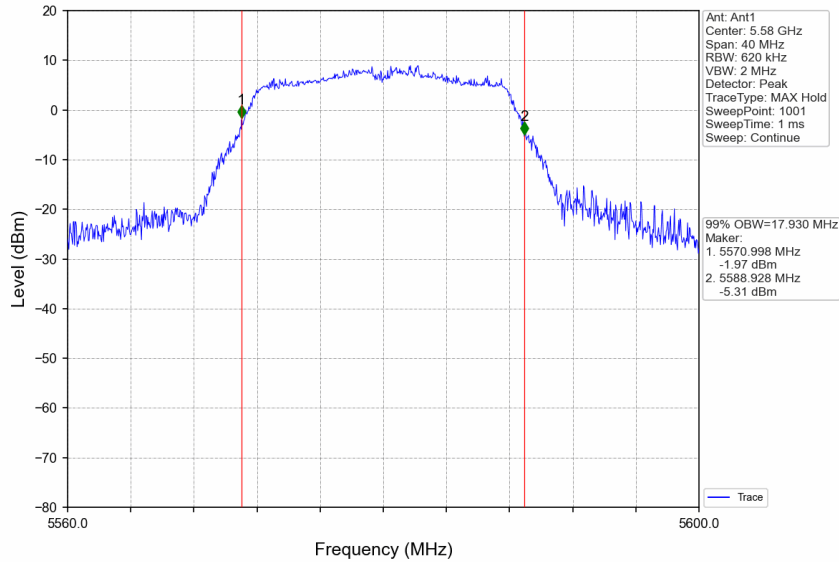
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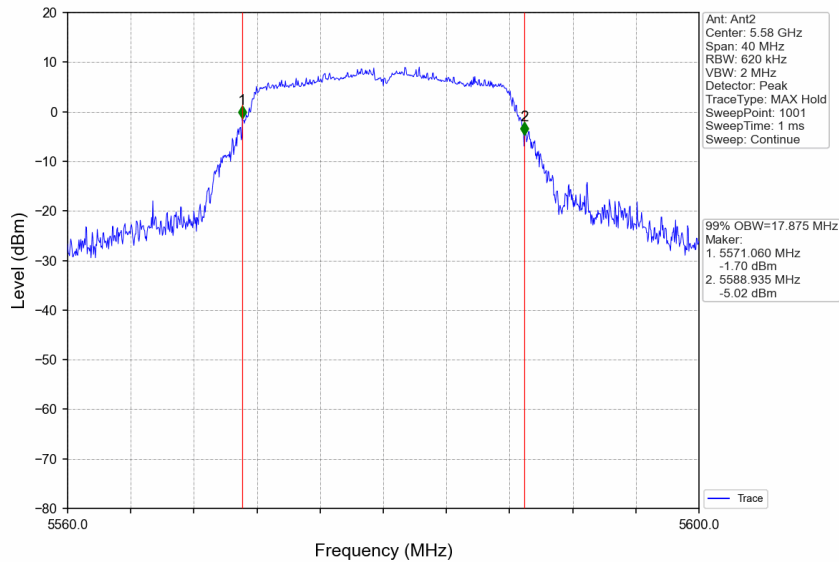
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802.11a_MCH_5580MHz_Ant1_NTNV



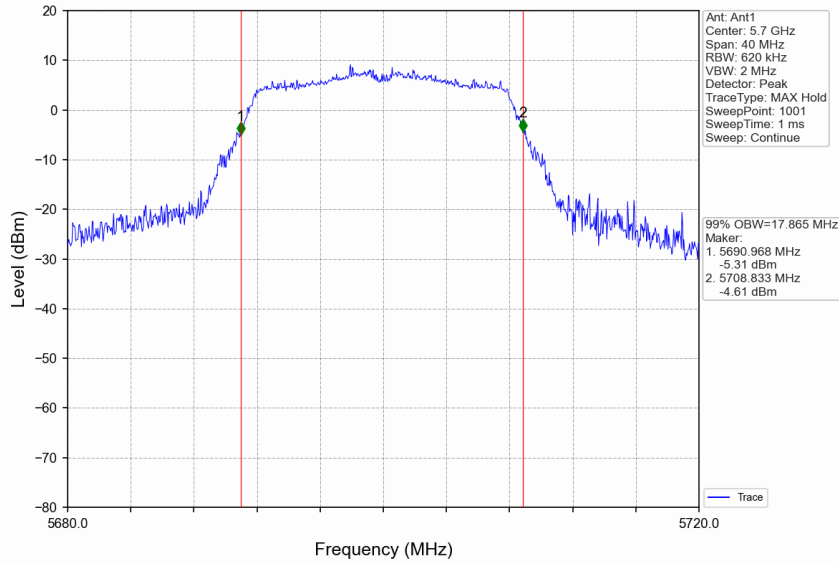
802.11a_MCH_5580MHz_Ant2_NTNV



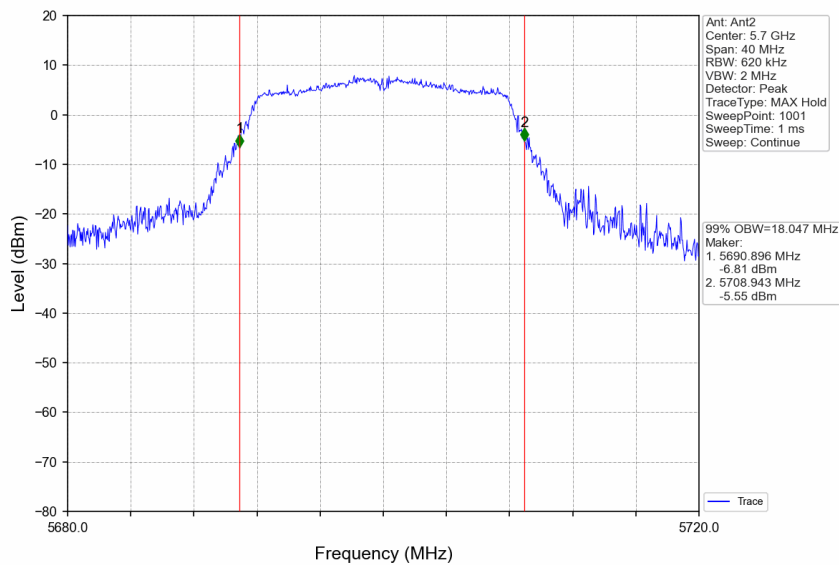
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802.11a_HCH_5700MHz_Ant1_NTNV



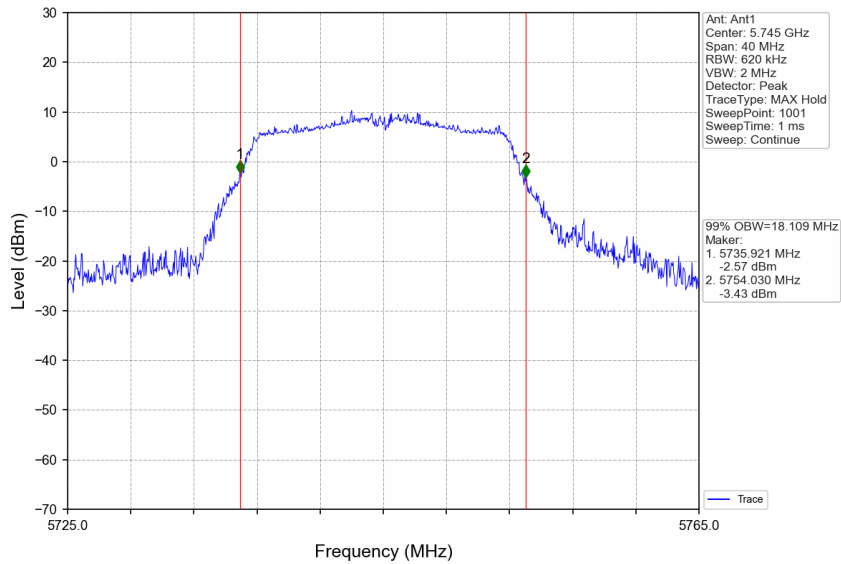
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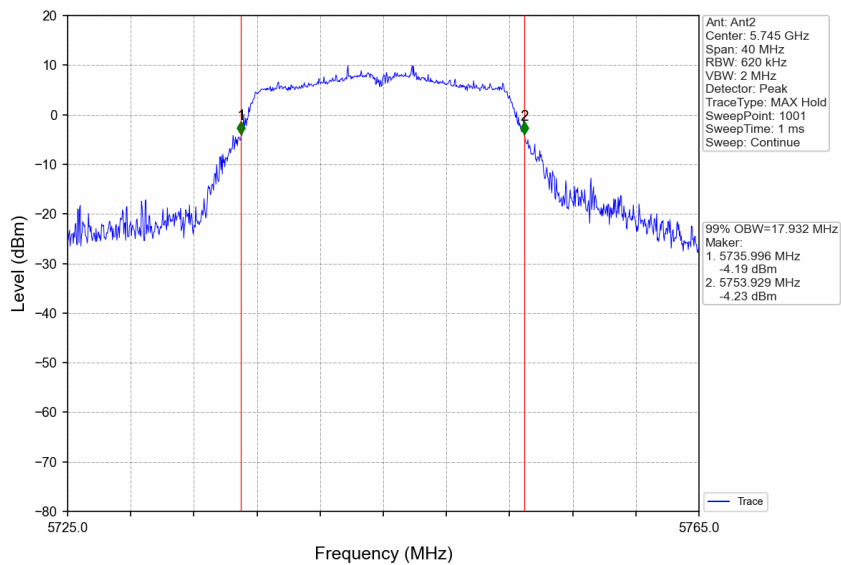
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802.11a_LCH_5745MHz_Ant1_NTNV



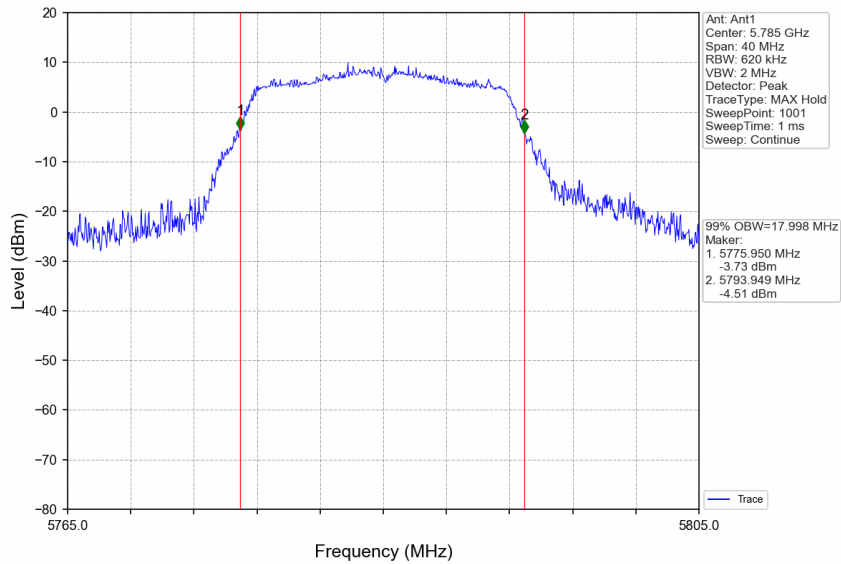
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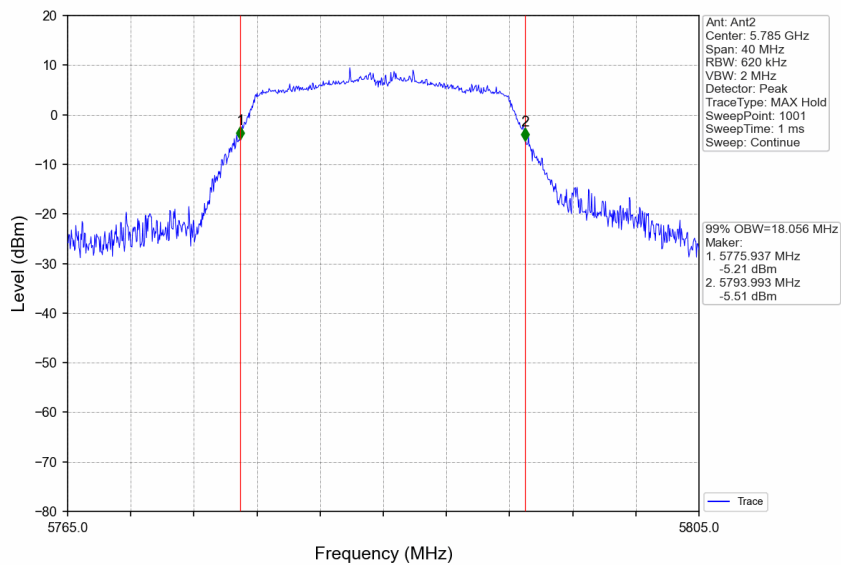
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802.11a_MCH_5785MHz_Ant1_NTNV



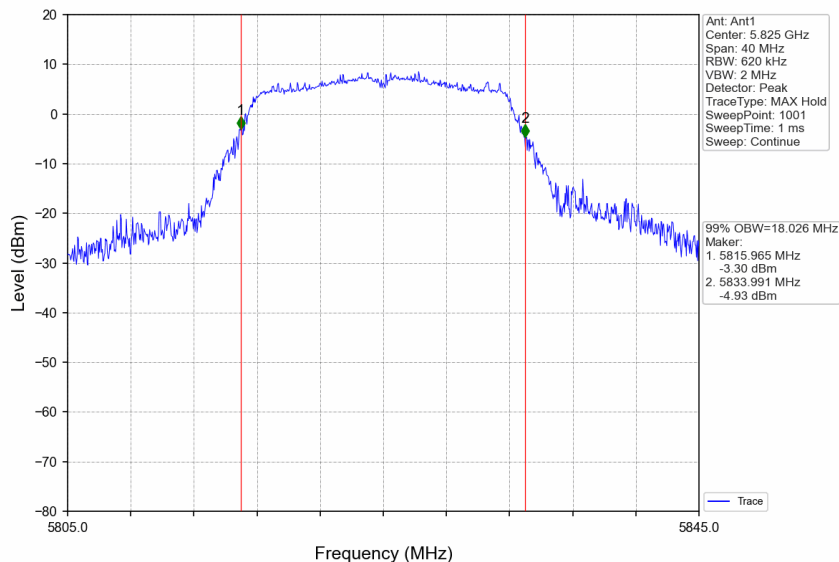
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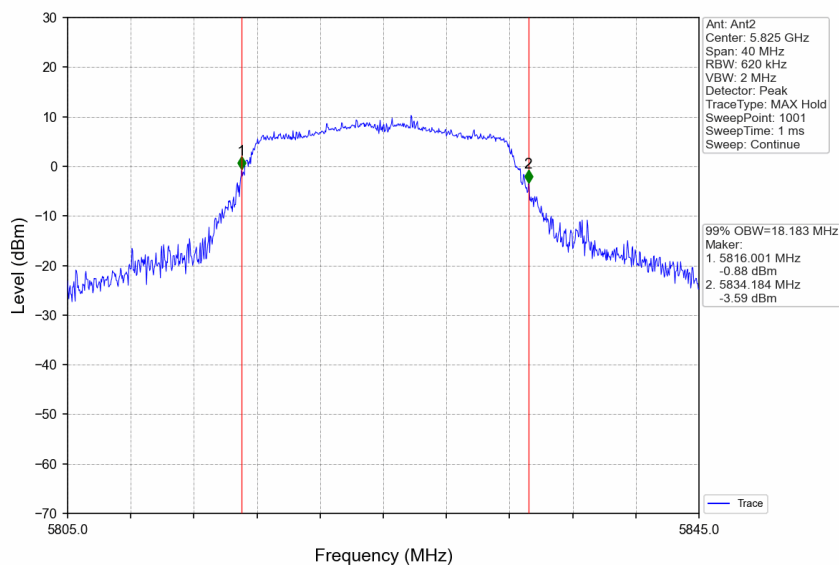
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802.11a_HCH_5825MHz_Ant1_NTNV



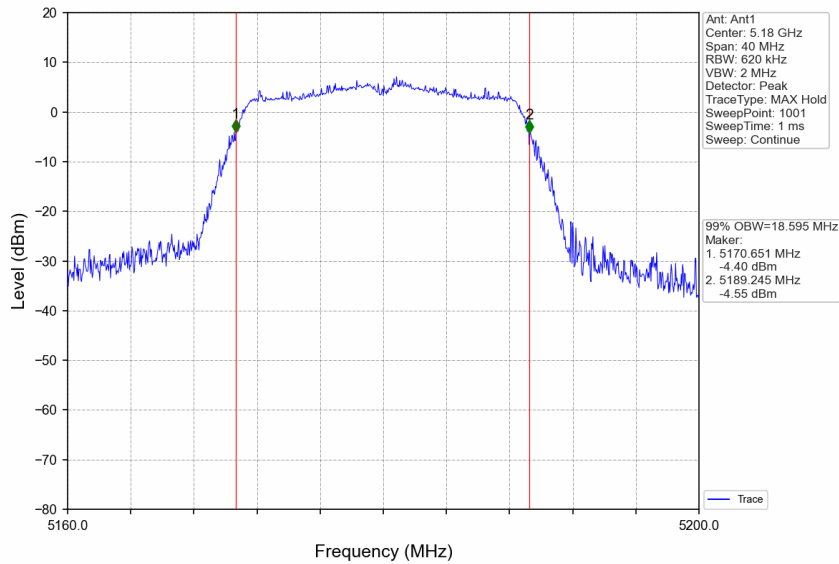
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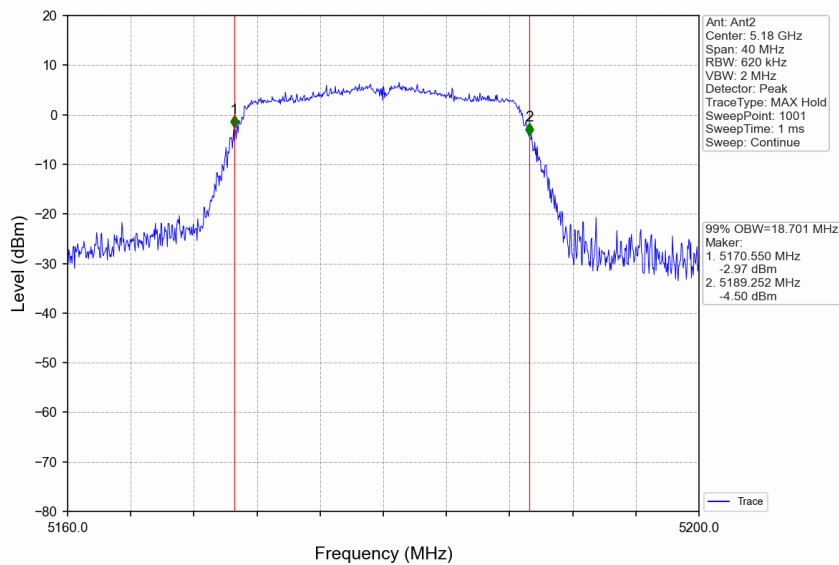
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



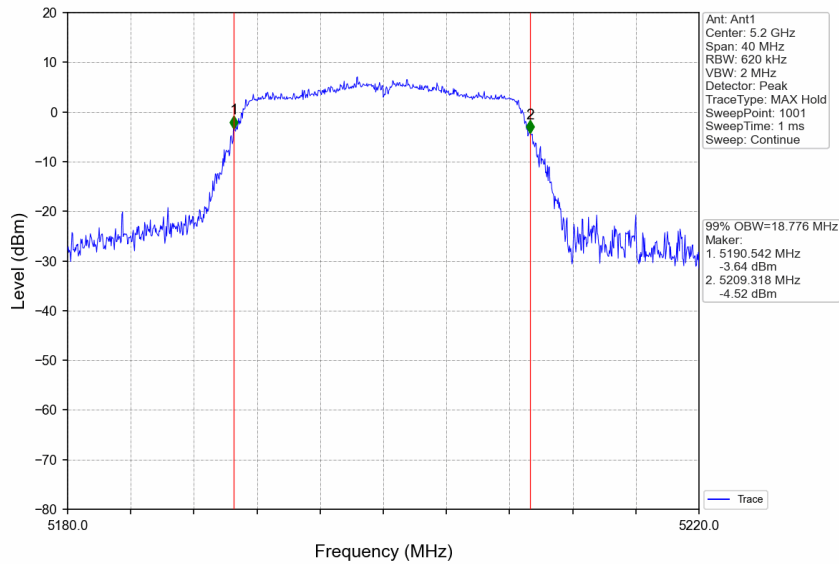
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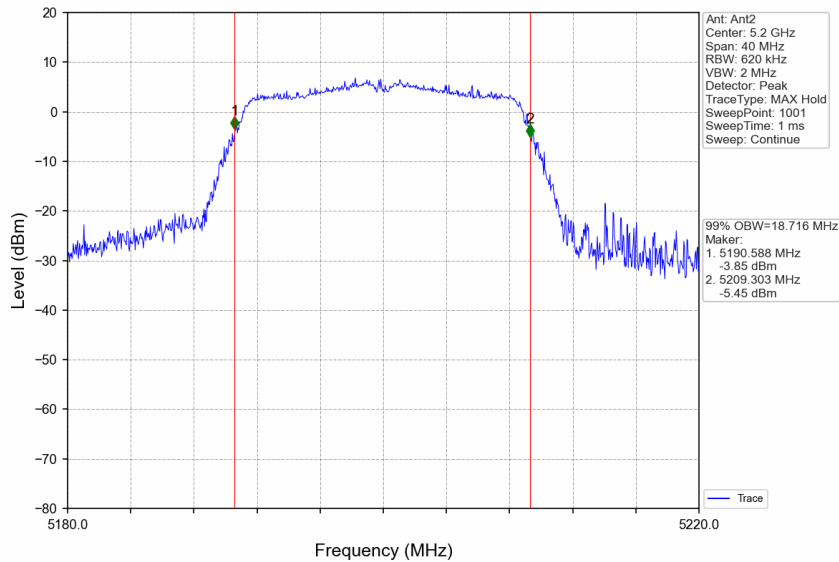
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



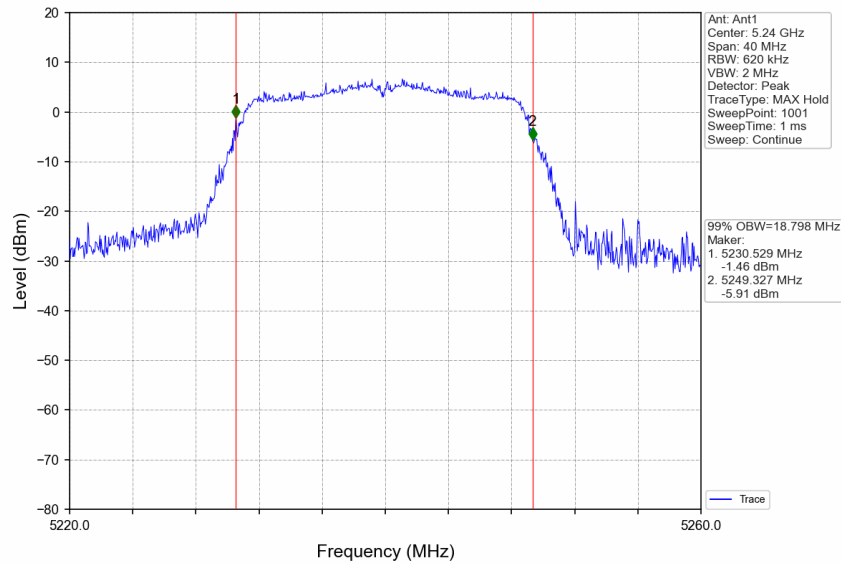
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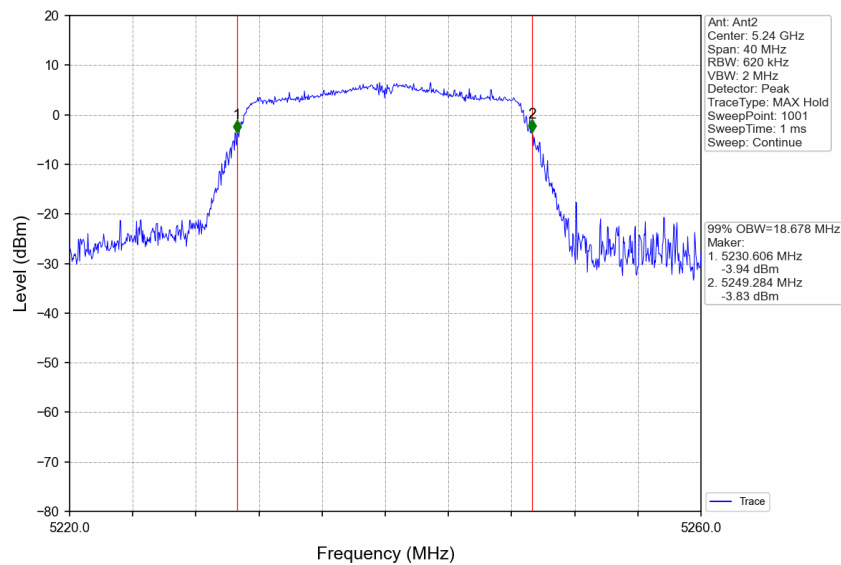
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



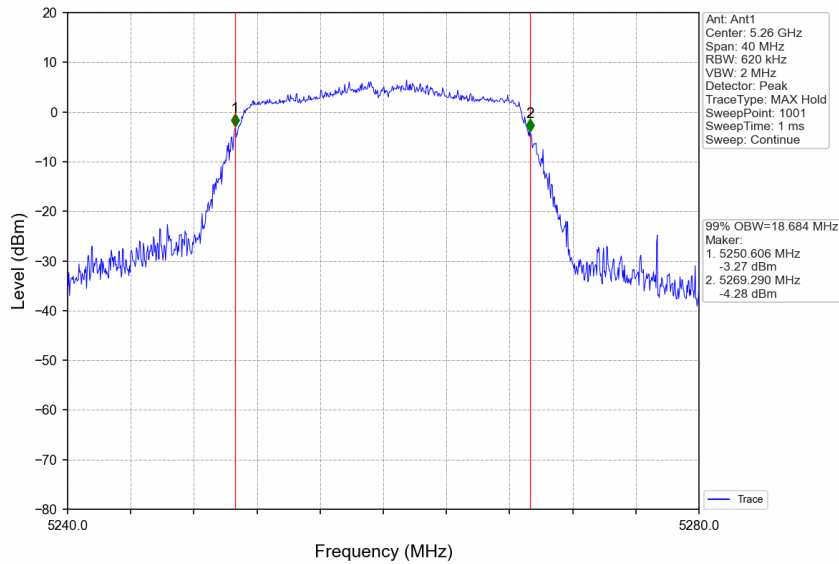
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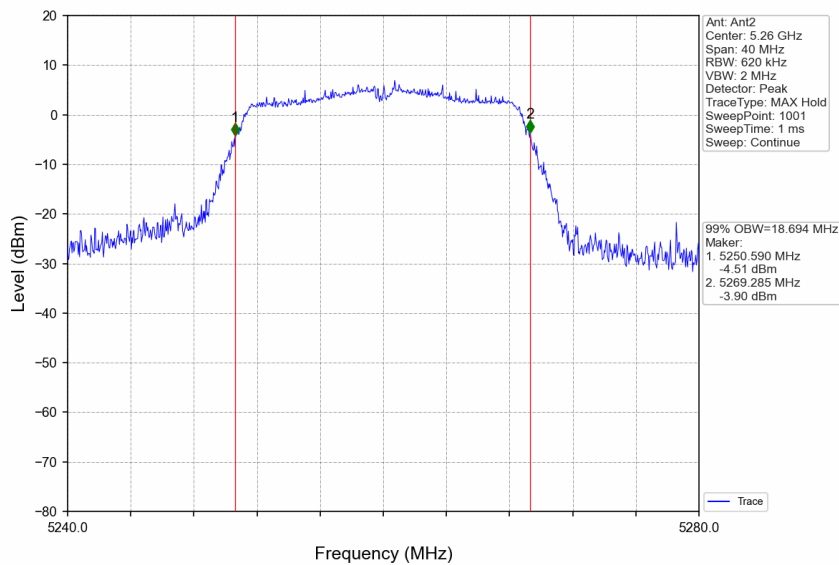
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



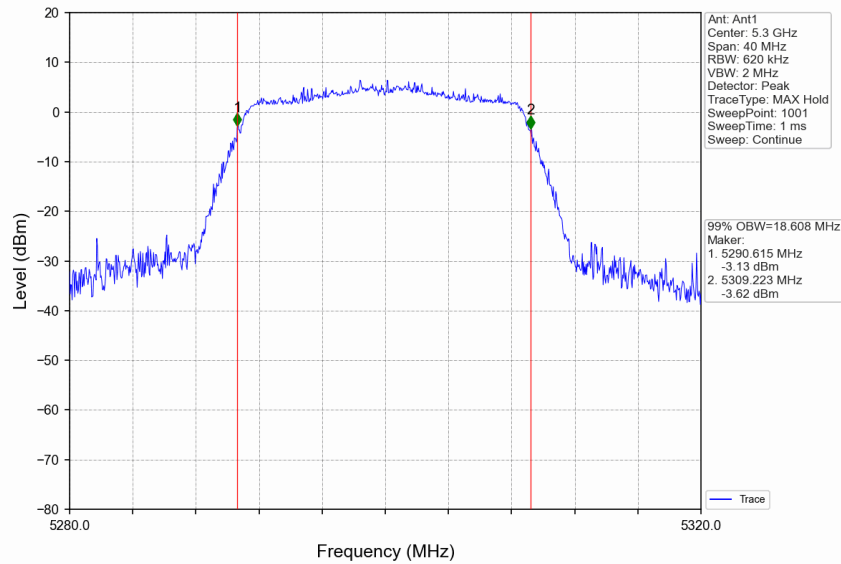
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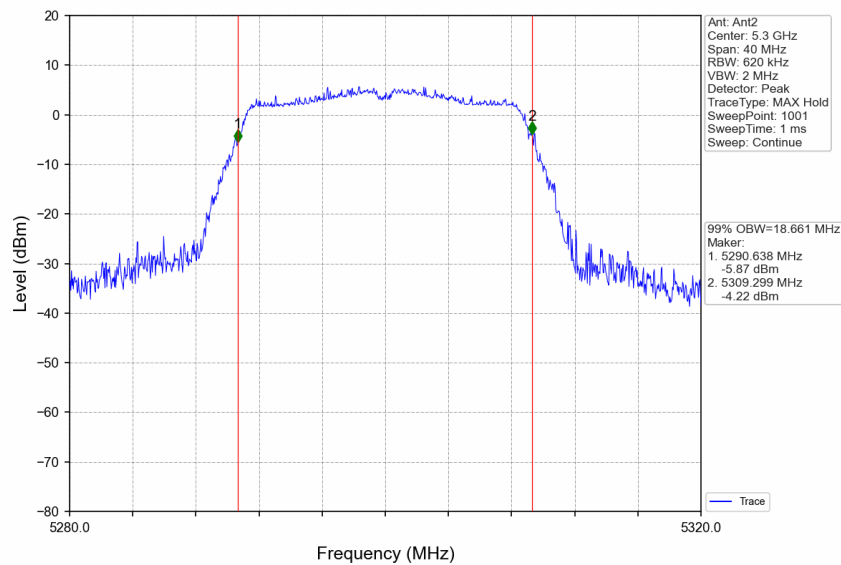
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802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



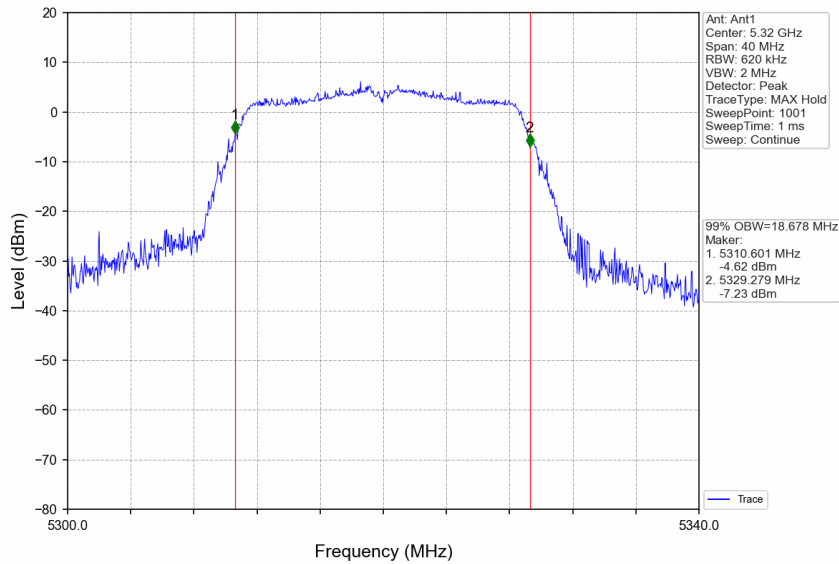
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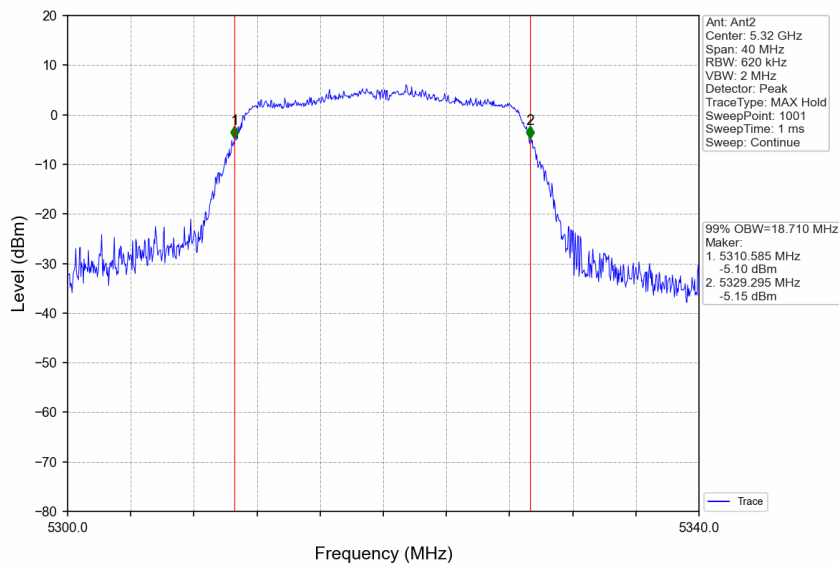
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_HCH_5320MHz_Ant2_NTNV



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