

Appendix for SHEM2108009897CR-FCC-5G

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	1.044	1.143	91.34	0.39	0.03
		5200	0.708	0.806	87.84	0.56	0.03
		5240	0.708	0.807	87.73	0.57	0.06
		5260	0.708	0.807	87.73	0.57	0.03
		5300	0.708	0.807	87.73	0.57	0.03
		5320	0.708	0.807	87.73	0.57	0.03
		5500	0.708	0.807	87.73	0.57	0.03
		5580	0.708	0.807	87.73	0.57	0.03
		5700	0.708	1.318	53.72	2.70	34.09
		5745	0.708	0.807	87.73	0.57	0.03
		5785	0.708	0.806	87.84	0.56	0.03
		5825	0.708	0.806	87.84	0.56	0.03
802.11n (HT20)	MIMO	5180	1.308	1.407	92.96	0.32	0.03
		5200	1.308	1.407	92.96	0.32	0.03
		5240	1.307	1.406	92.96	0.32	0.03
		5260	1.308	1.407	92.96	0.32	0.03
		5300	1.308	1.407	92.96	0.32	0.03
		5320	1.308	1.407	92.96	0.32	0.03
		5500	1.308	1.407	92.96	0.32	0.03
		5580	1.308	1.407	92.96	0.32	0.03
		5700	1.308	1.406	93.03	0.31	0.03
		5745	1.307	1.406	92.96	0.32	0.03
		5785	1.308	1.407	92.96	0.32	0.03
		5825	1.308	1.406	93.03	0.31	0.03
802.11n (HT40)	MIMO	5190	0.648	1.265	51.23	2.91	35.54
		5230	0.648	0.747	86.75	0.62	0.00
		5270	0.648	0.747	86.75	0.62	0.07
		5310	0.650	0.747	87.01	0.60	0.04
		5510	0.648	0.747	86.75	0.62	0.04
		5550	0.650	0.747	87.01	0.60	0.04
		5670	0.650	0.748	86.90	0.61	0.07
		5755	0.648	0.747	86.75	0.62	0.07
802.11ac (VHT20)	MIMO	5795	0.648	0.746	86.86	0.61	0.00
		5180	1.931	1.951	98.97	0.04	0.03
		5200	1.932	1.951	99.03	0.04	0.03
		5240	1.931	1.951	98.97	0.04	0.03



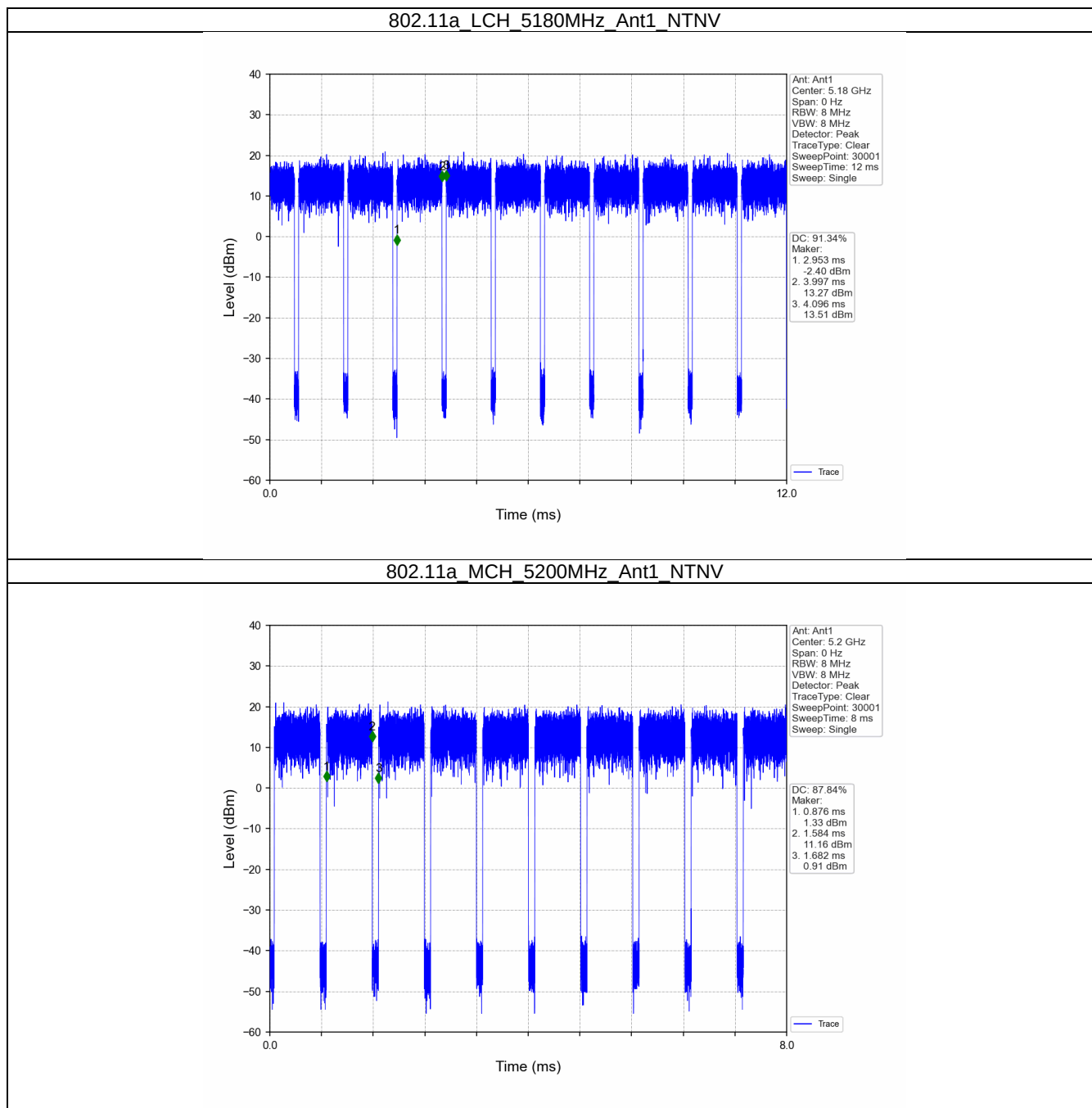
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		5260	1.931	1.951	98.97	0.04	0.03
		5300	1.932	1.951	99.03	0.04	0.03
		5320	1.931	1.951	98.97	0.04	0.03
		5500	1.933	1.951	99.08	0.04	0.03
		5580	1.931	1.951	98.97	0.04	0.03
		5700	1.931	1.951	98.97	0.04	0.03
		5745	1.931	1.950	99.03	0.04	0.03
		5785	1.932	1.951	99.03	0.04	0.03
		5825	1.931	1.951	98.97	0.04	0.03
802.11ac (VHT40)	MIMO	5190	1.544	1.563	98.78	0.05	0.03
		5230	1.544	1.563	98.78	0.05	0.00
		5270	1.543	1.563	98.72	0.06	0.03
		5310	1.544	1.563	98.78	0.05	0.03
		5510	1.543	1.563	98.72	0.06	0.03
		5550	1.544	1.564	98.72	0.06	0.03
		5670	1.544	1.563	98.78	0.05	0.03
		5755	1.544	1.563	98.78	0.05	0.03
802.11ac (VHT80)	MIMO	5795	1.543	1.562	98.78	0.05	0.03
		5210	0.906	1.053	86.04	0.65	0.06
		5290	0.906	1.054	85.96	0.66	0.06
		5530	0.904	1.053	85.85	0.66	0.03
		5610	0.906	1.054	85.96	0.66	0.03
		5775	0.906	1.319	68.69	1.63	17.33



1.1.2 Test Graph



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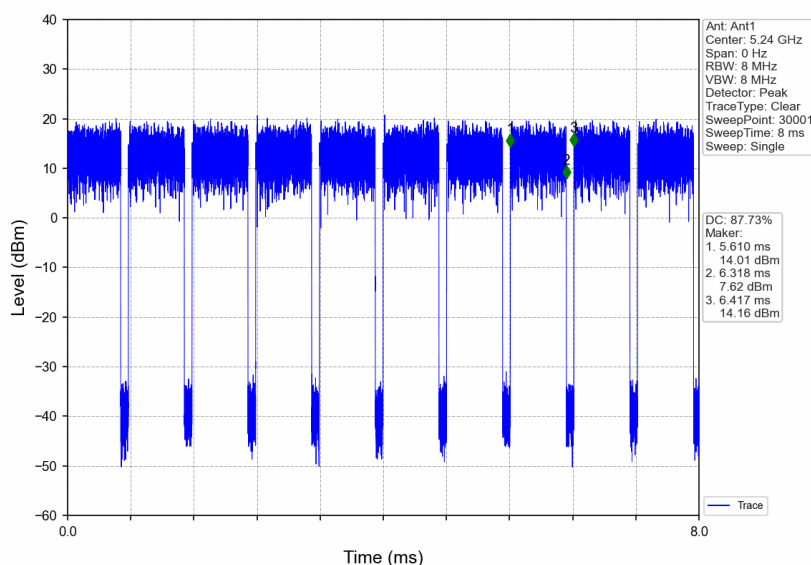
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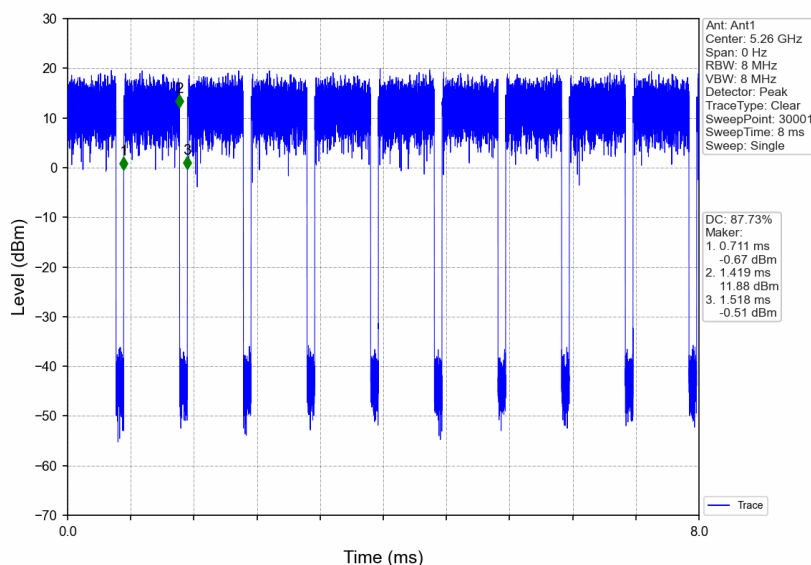
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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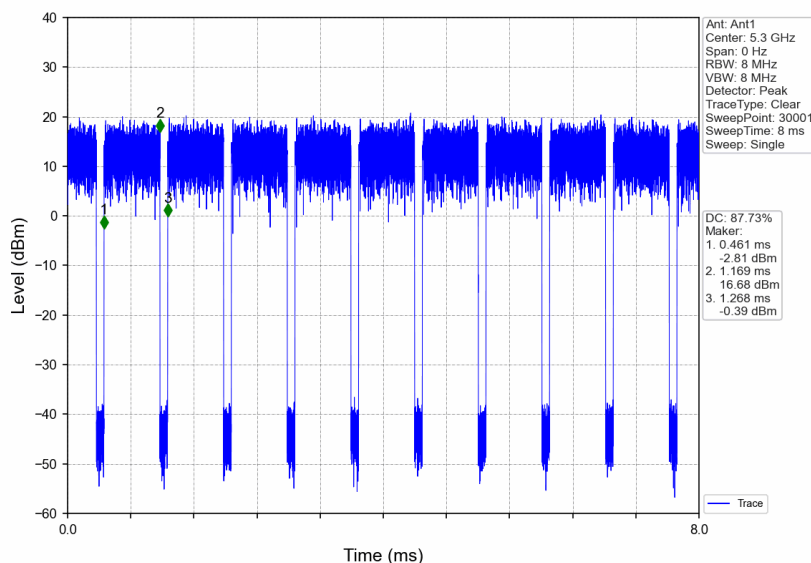
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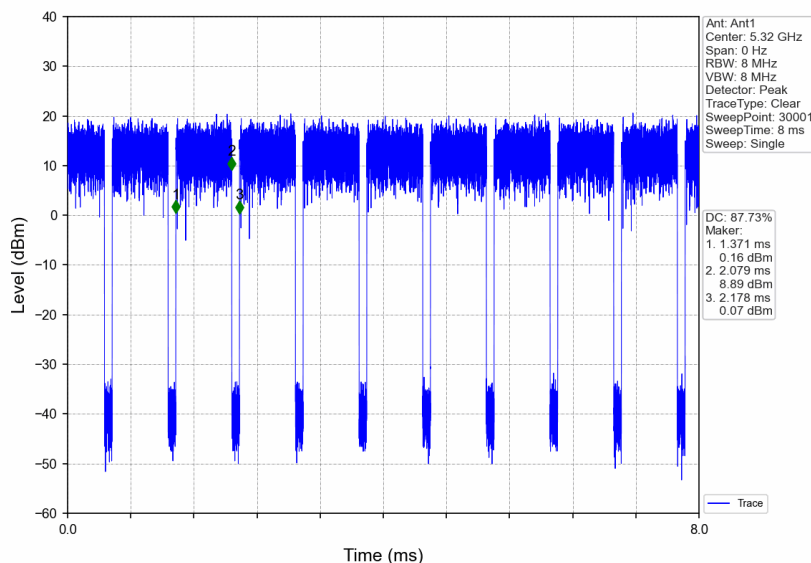
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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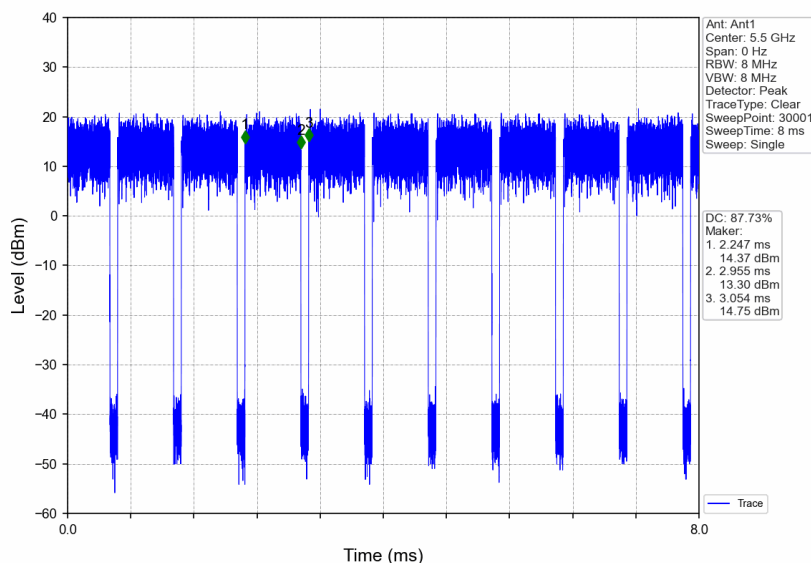
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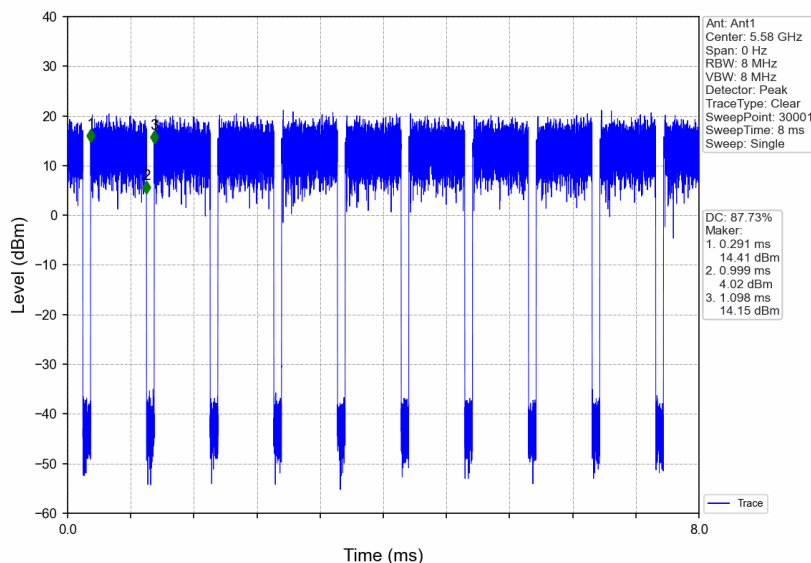
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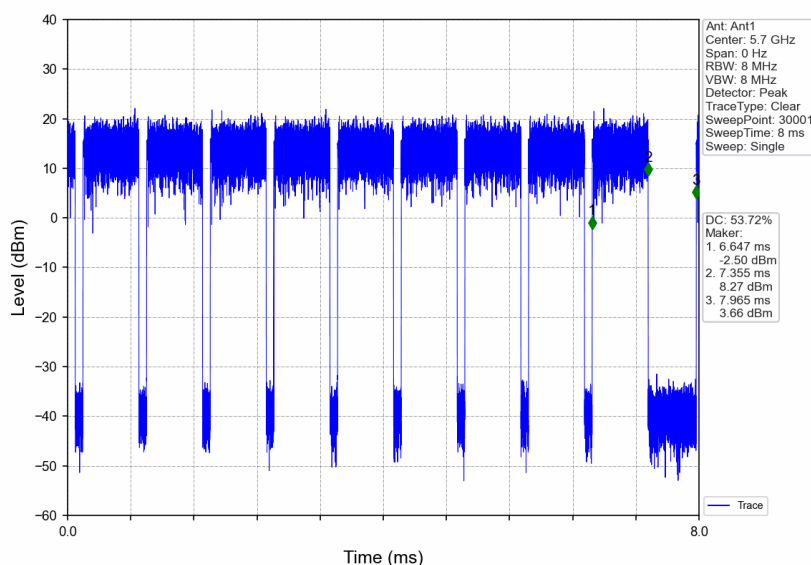
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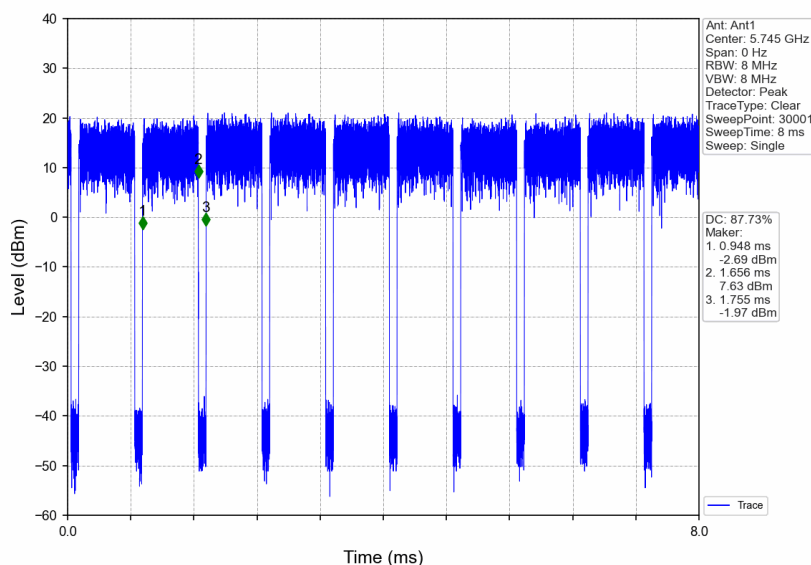
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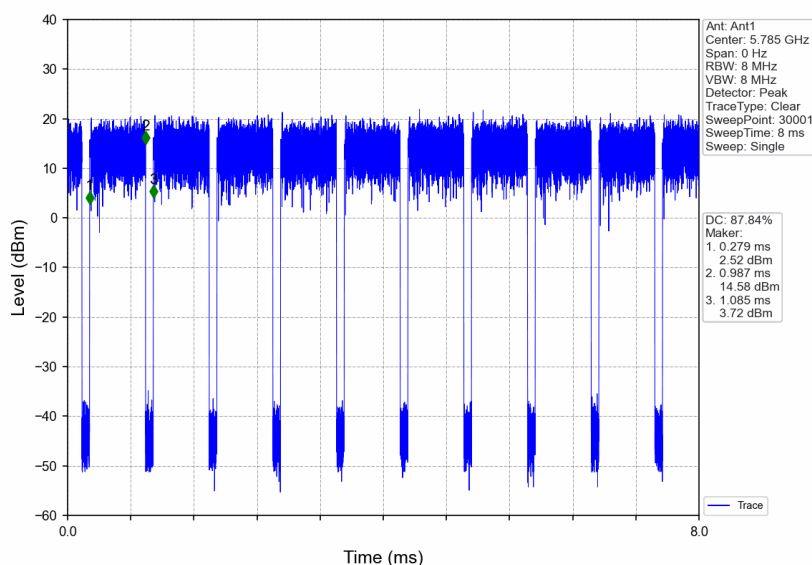
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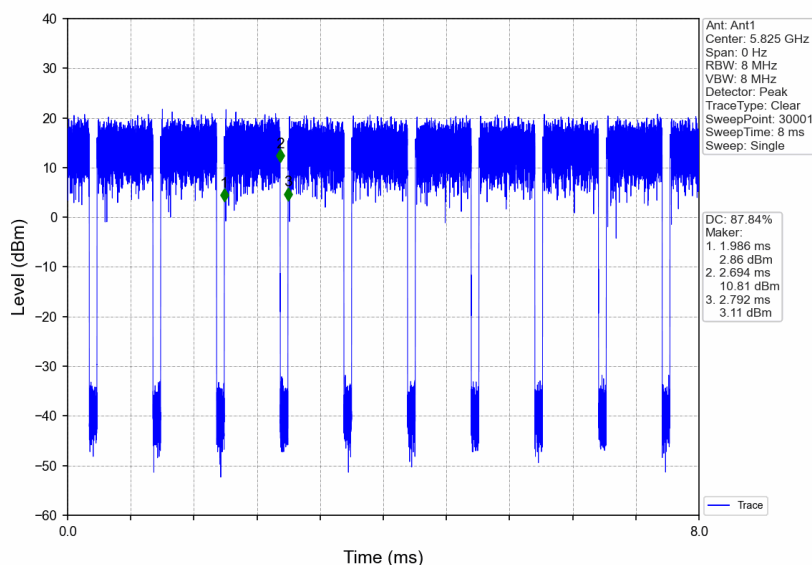
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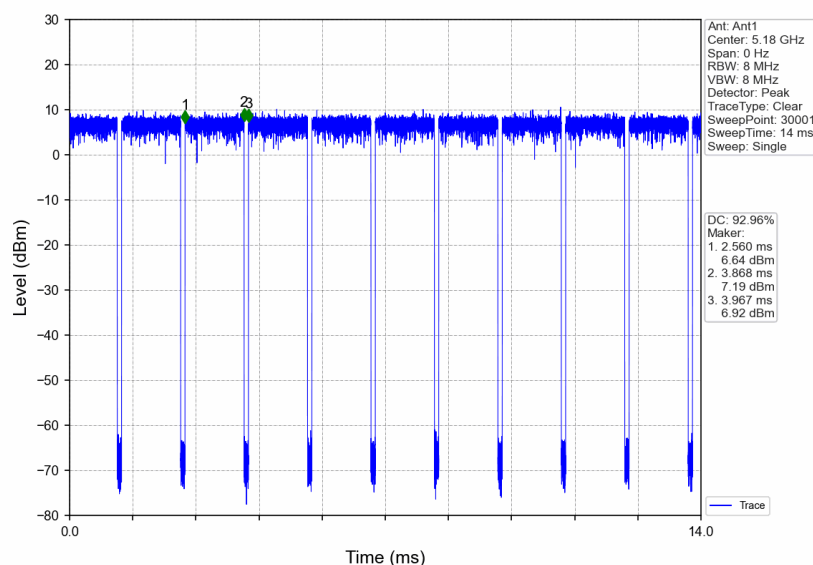
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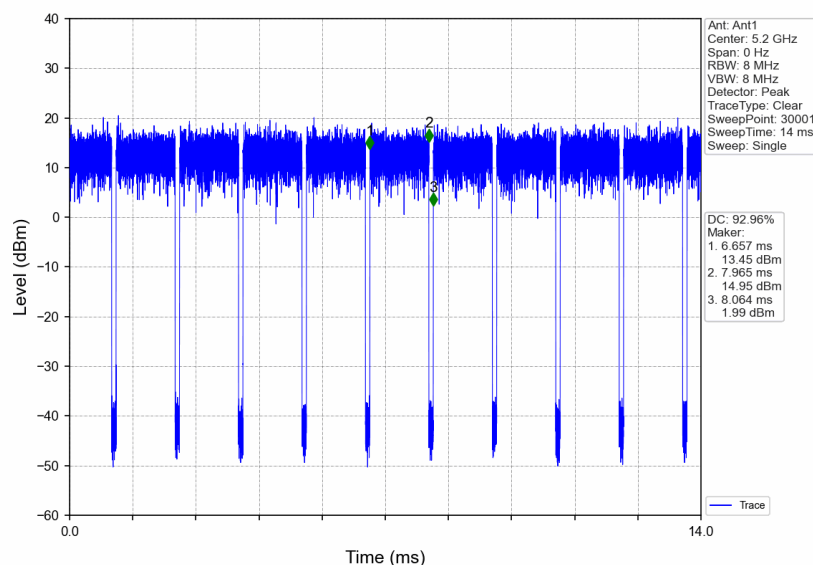
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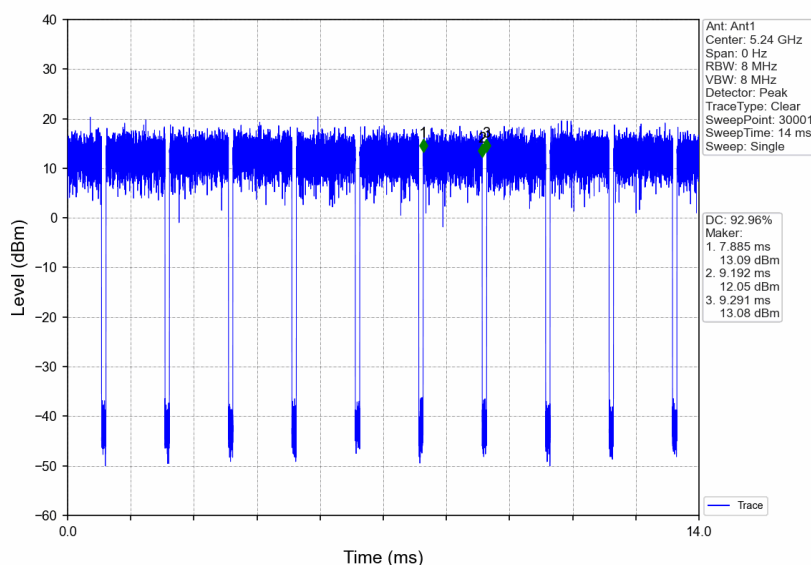
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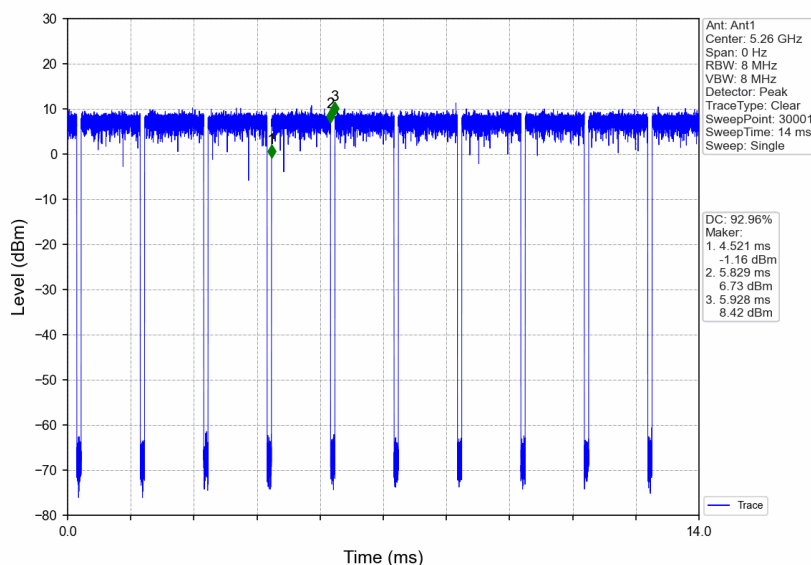
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



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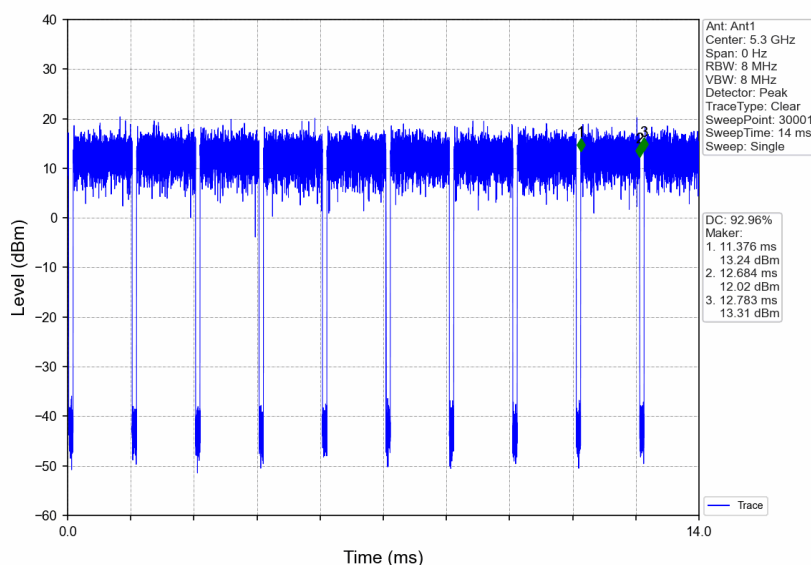
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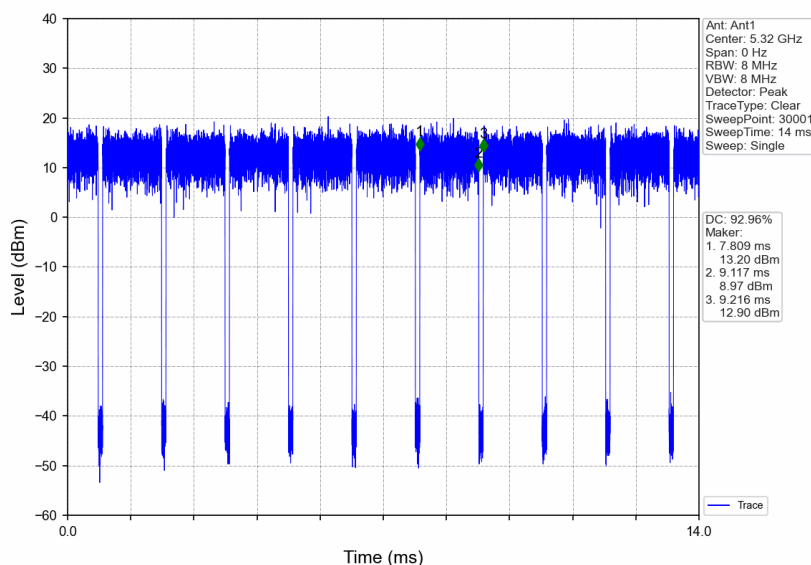
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



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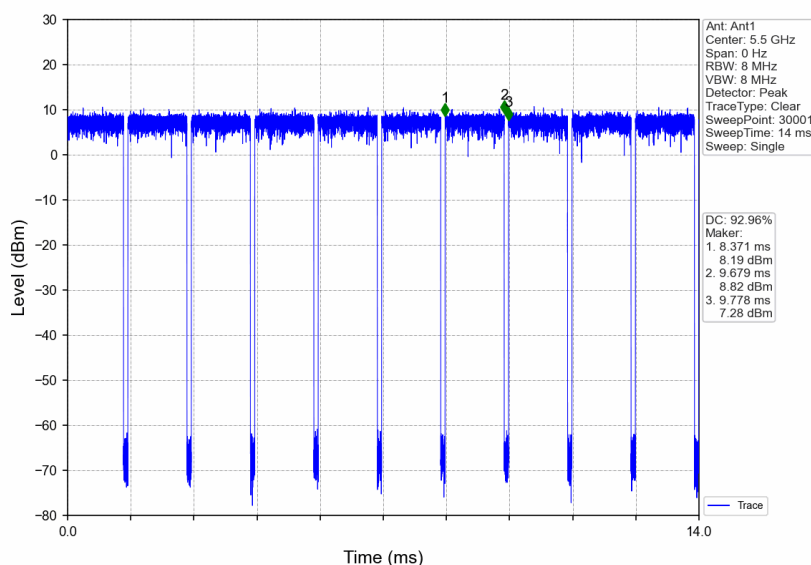
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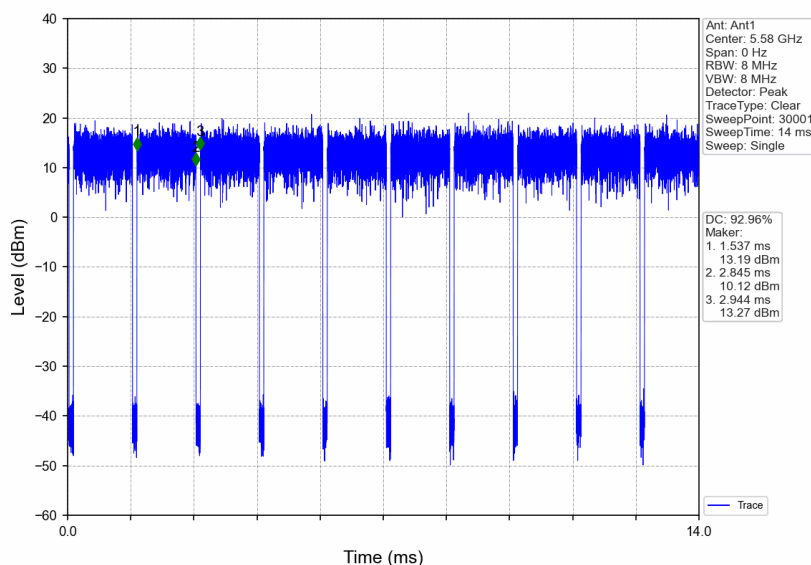
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



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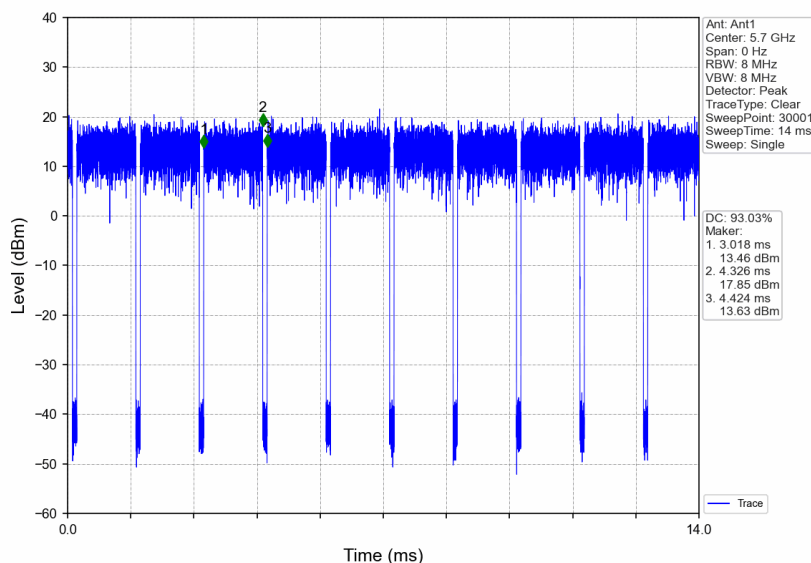
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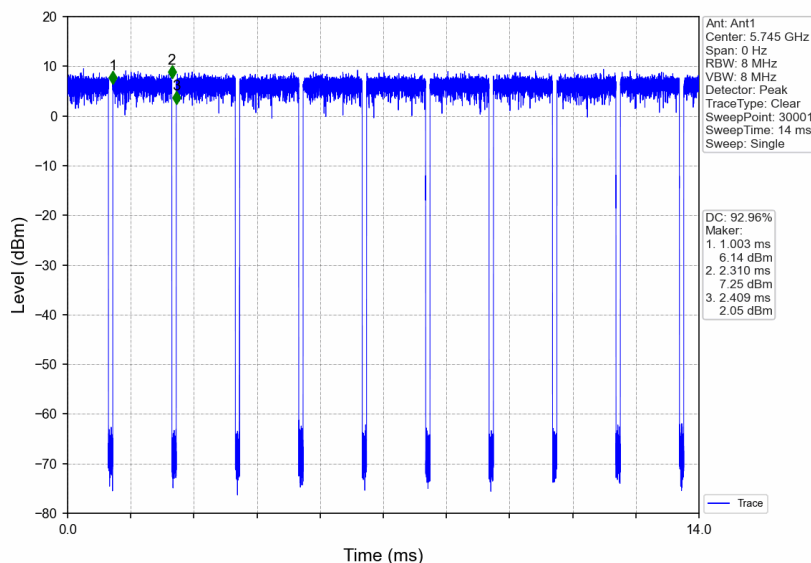
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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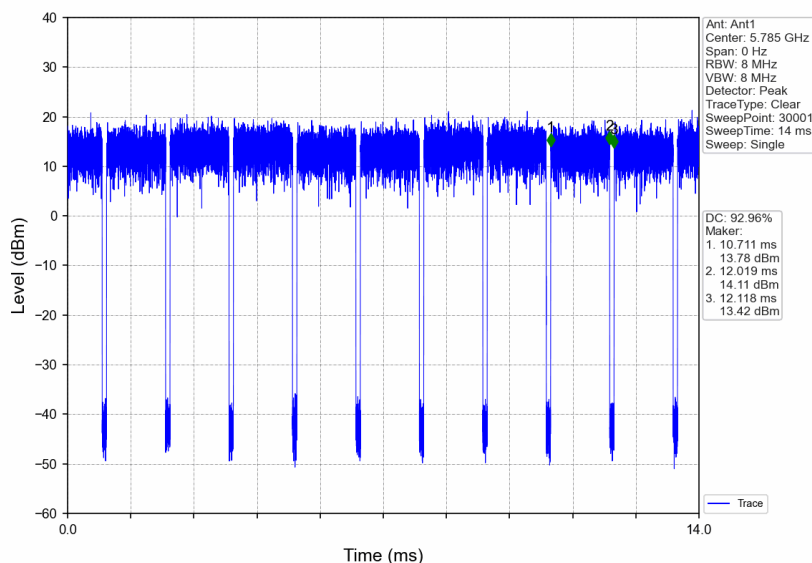
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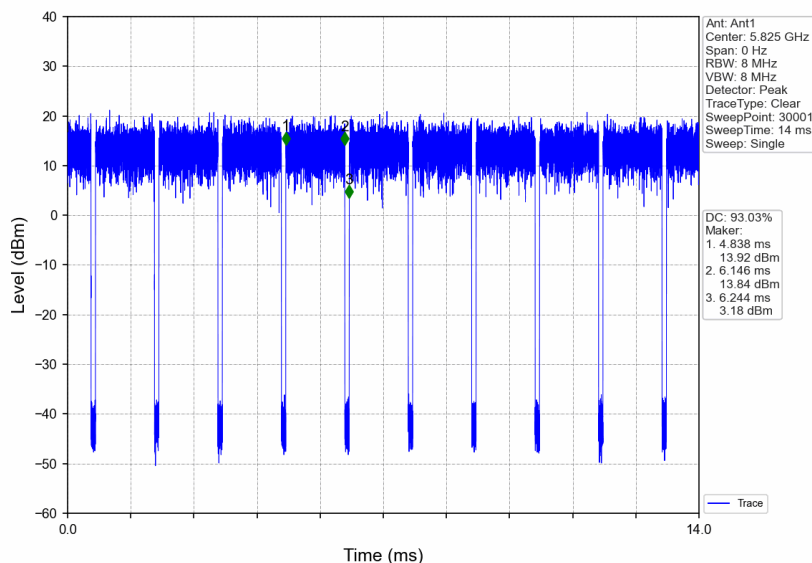
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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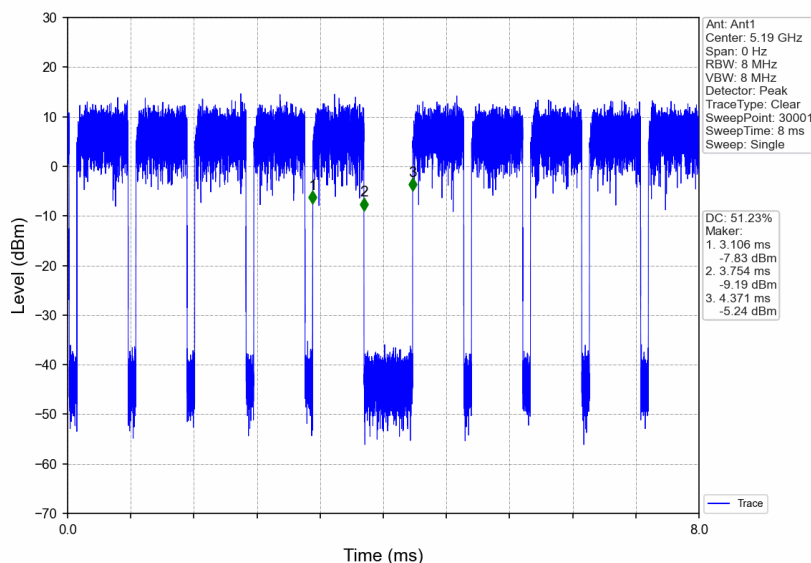
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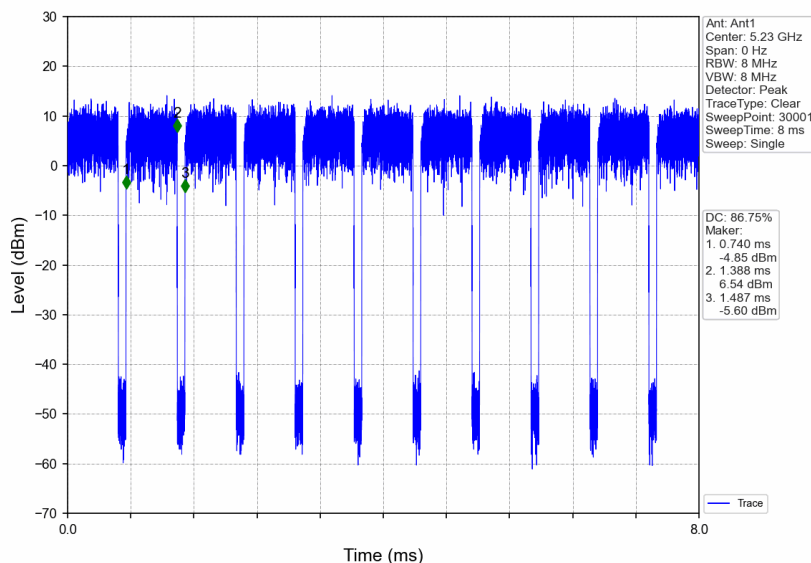
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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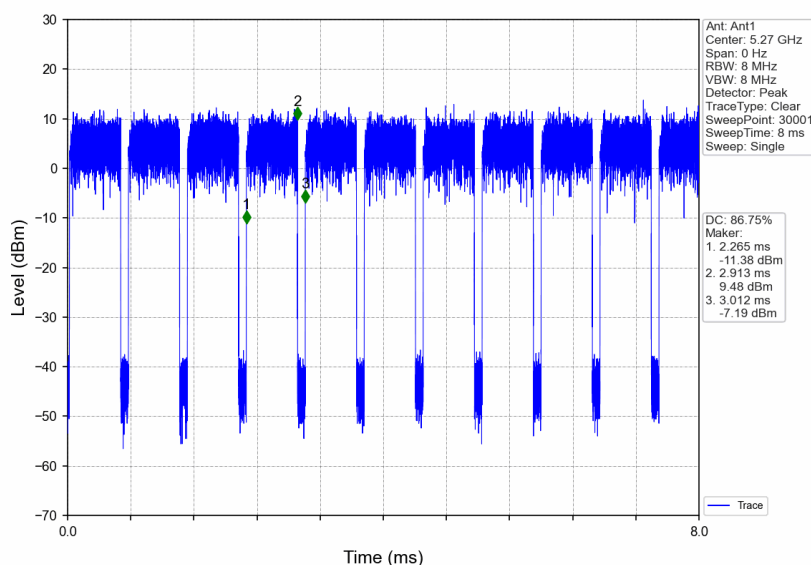
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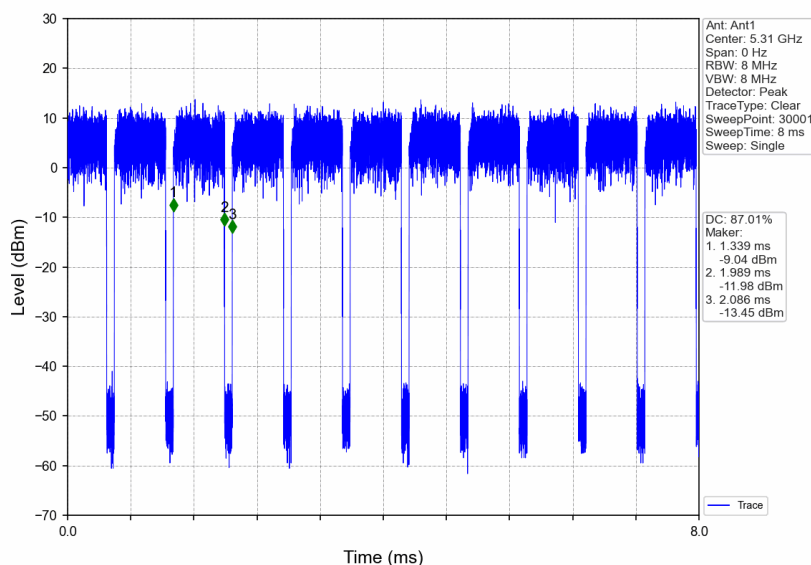
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



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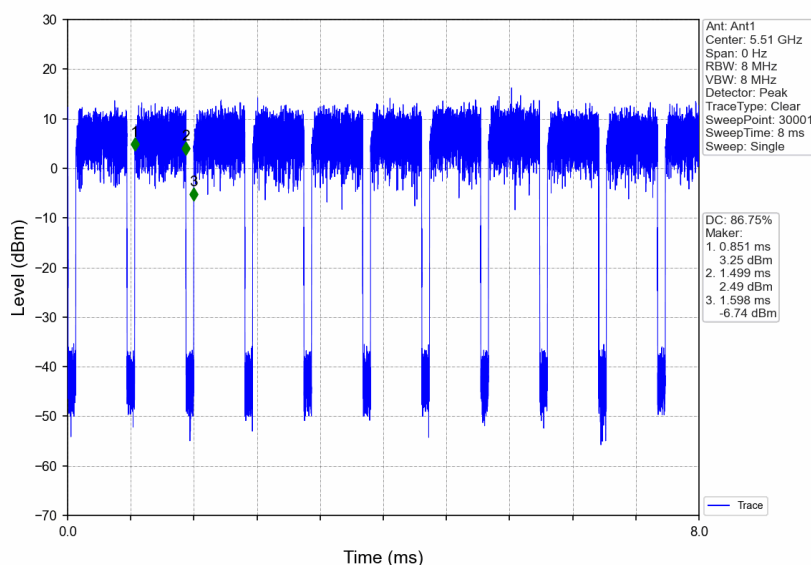
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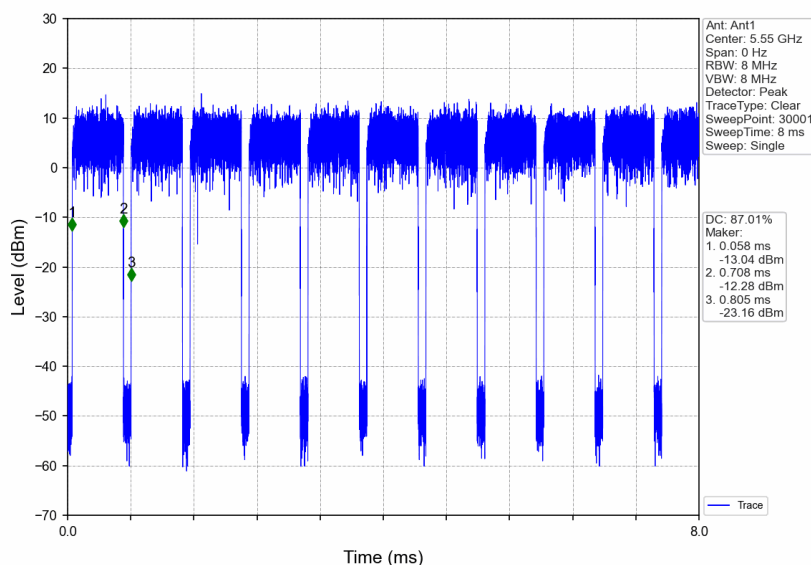
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802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



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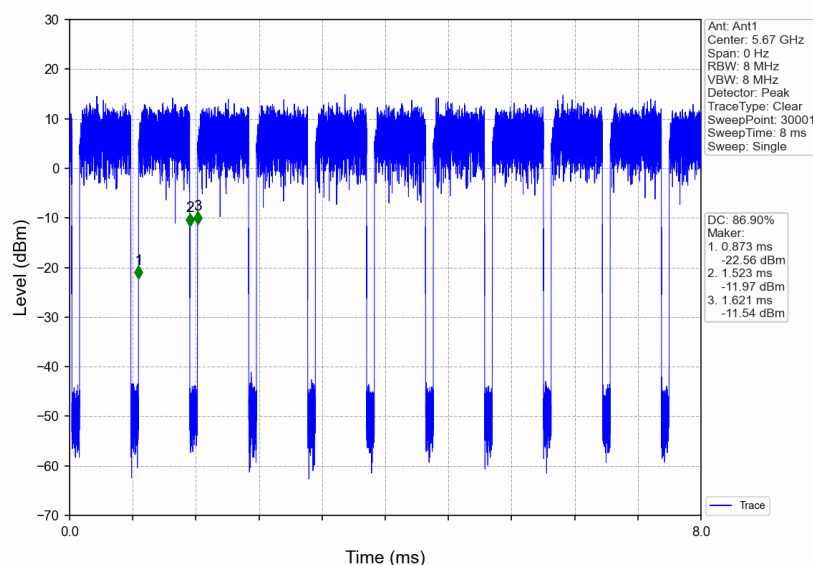
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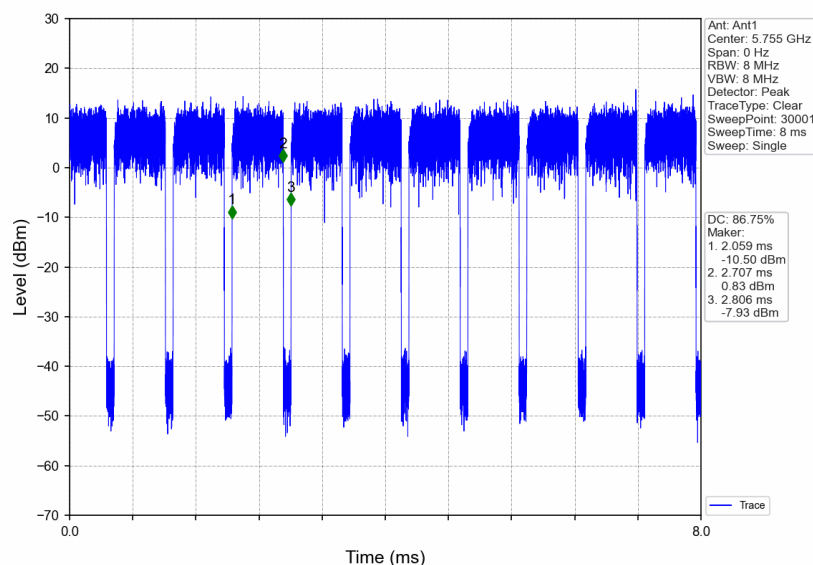
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



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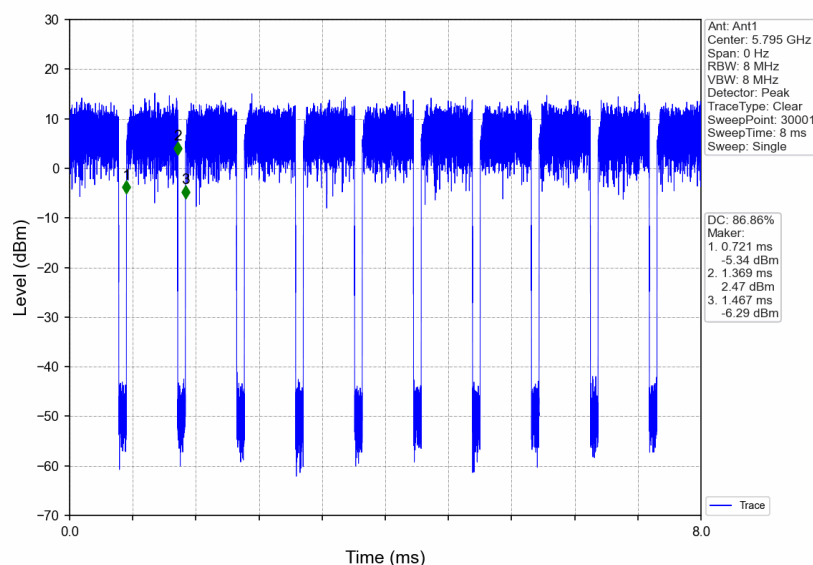
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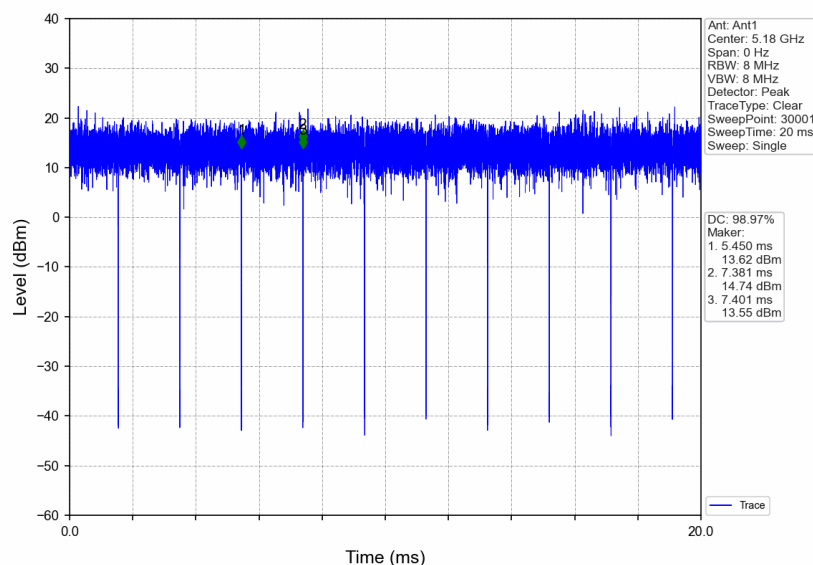
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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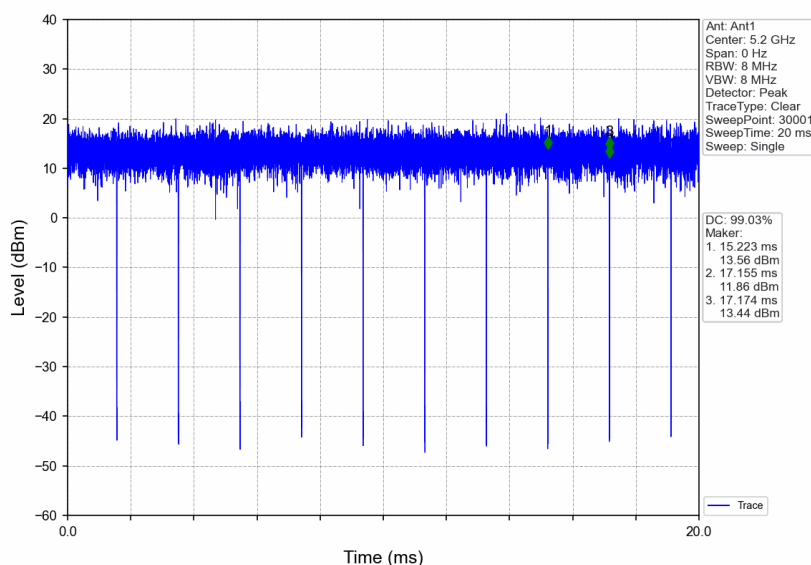
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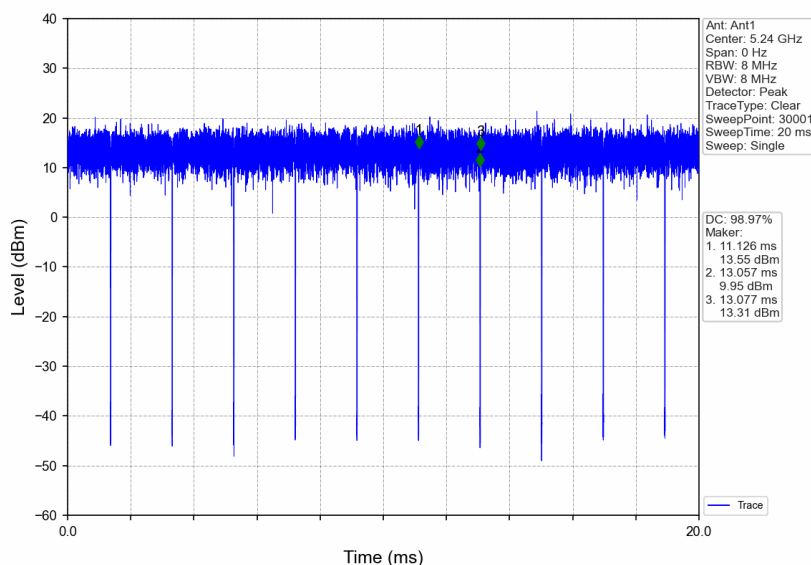
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802.11ac(VHT20) HCH 5240MHz Ant1 NTNV



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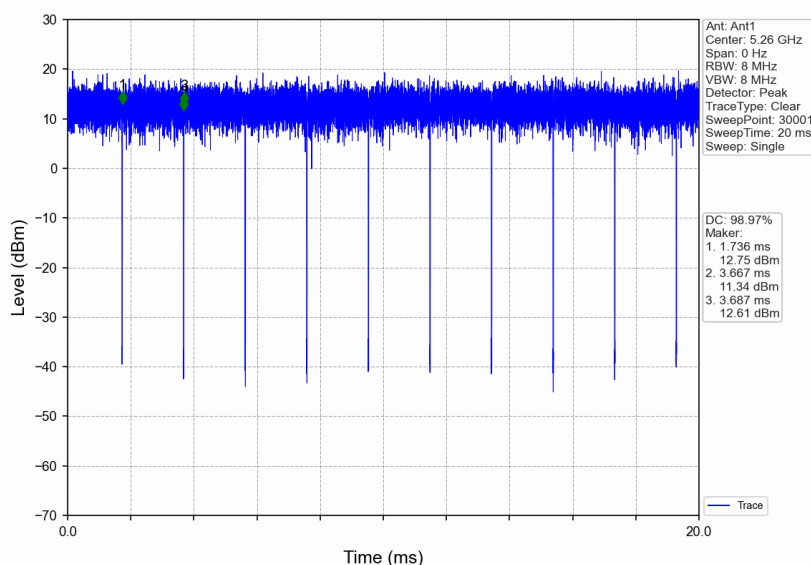
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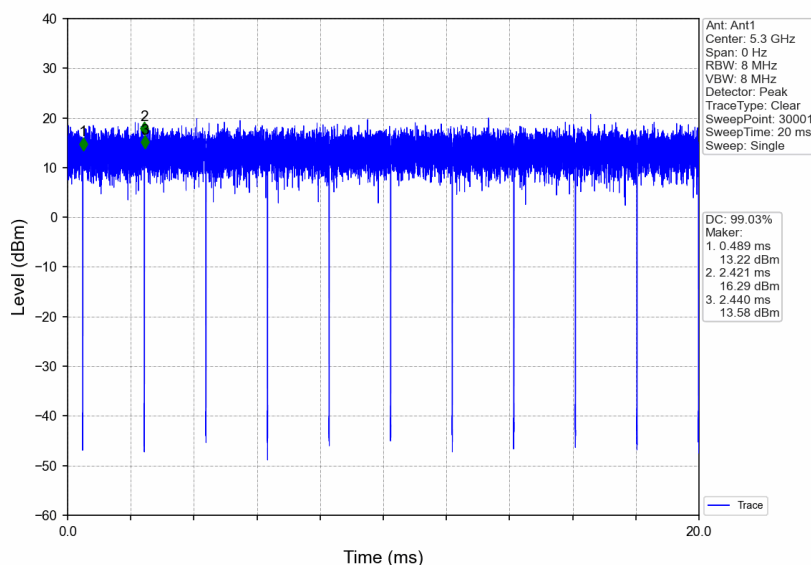
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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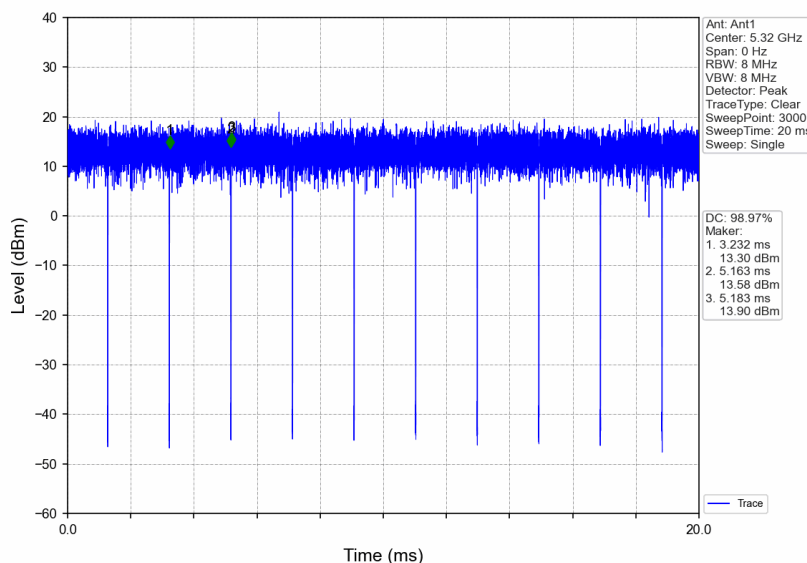
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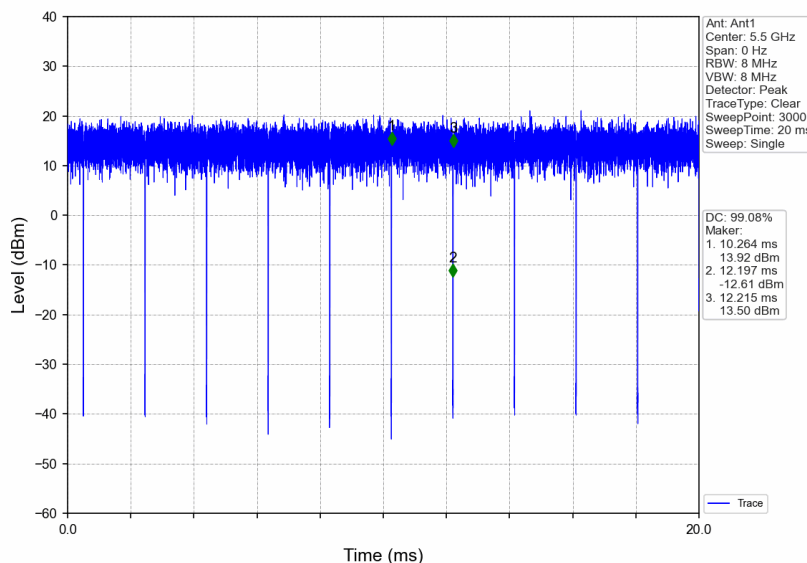
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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



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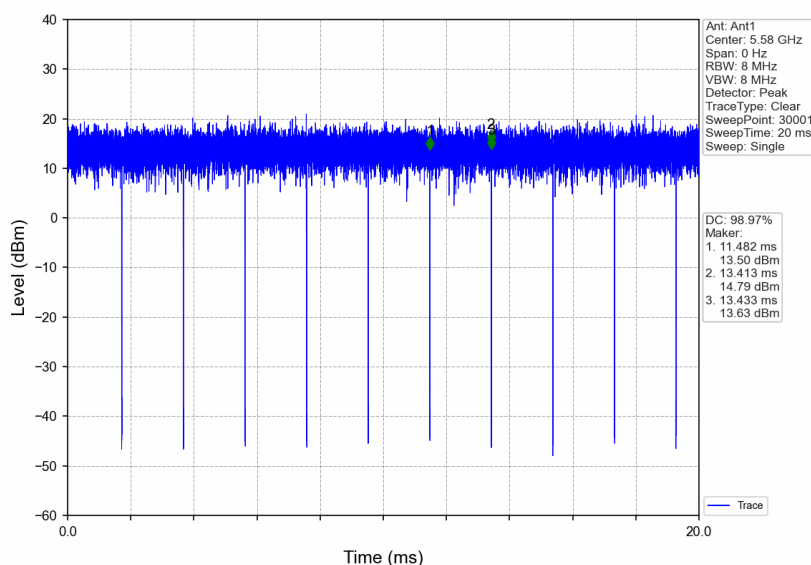
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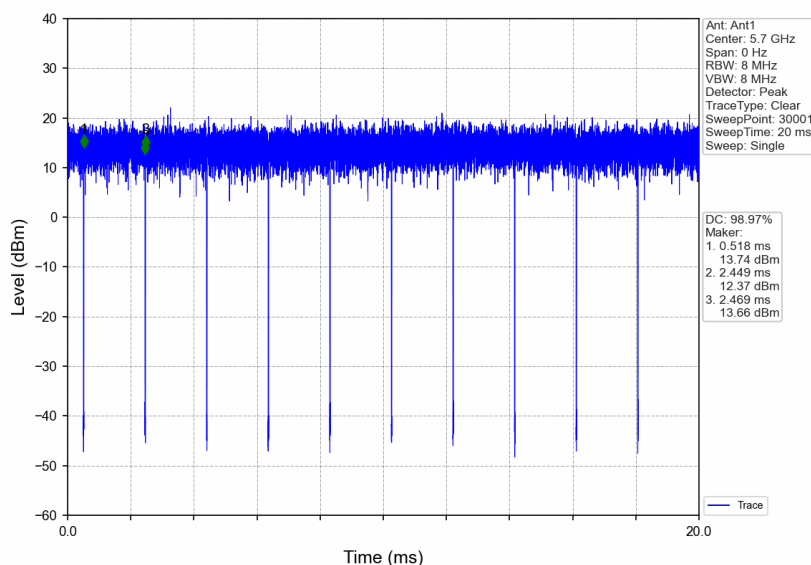
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802.11ac(VHT20) MCH 5580MHz Ant1 NTNV



802.11ac(VHT20) HCH 5700MHz Ant1 NTNV



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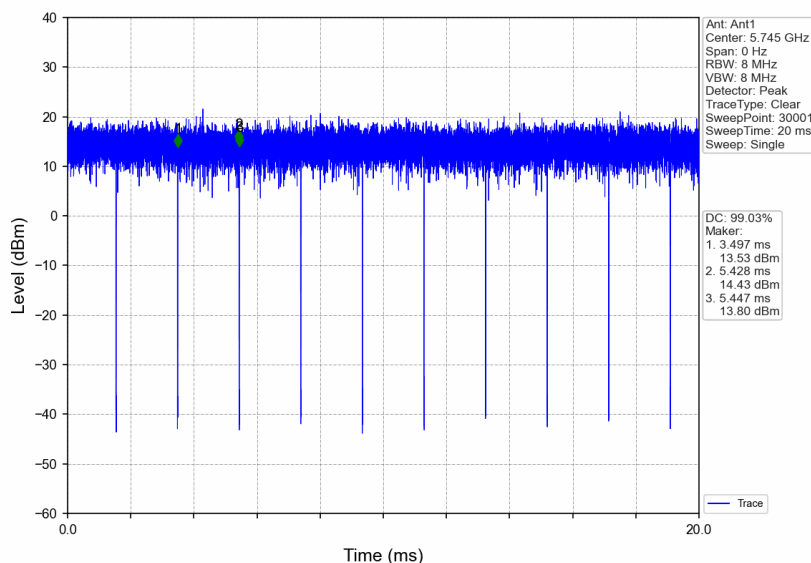
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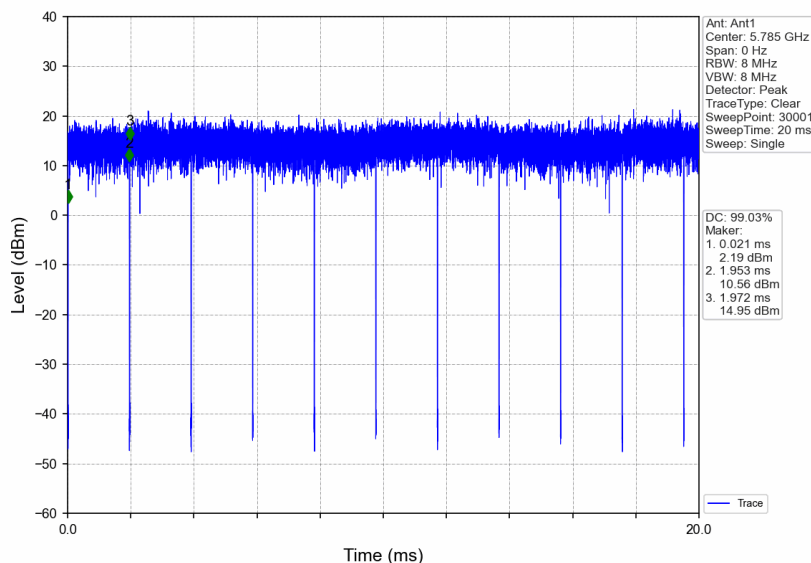
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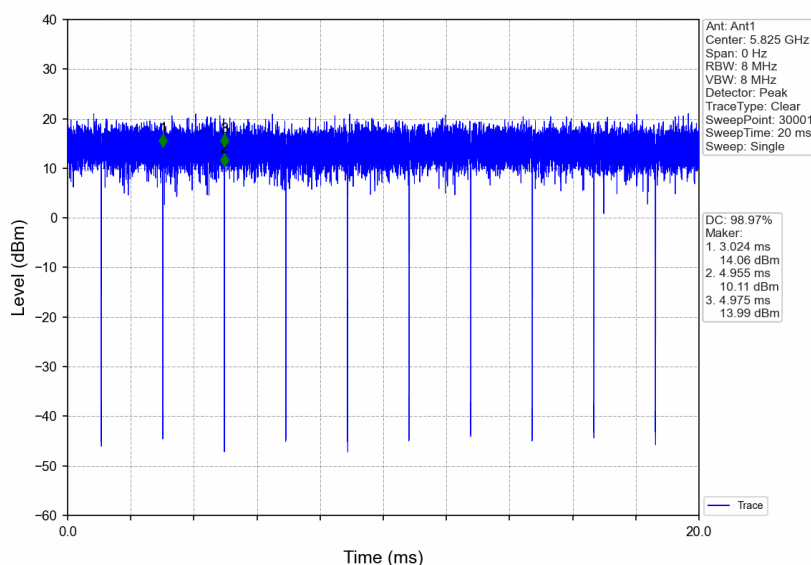
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



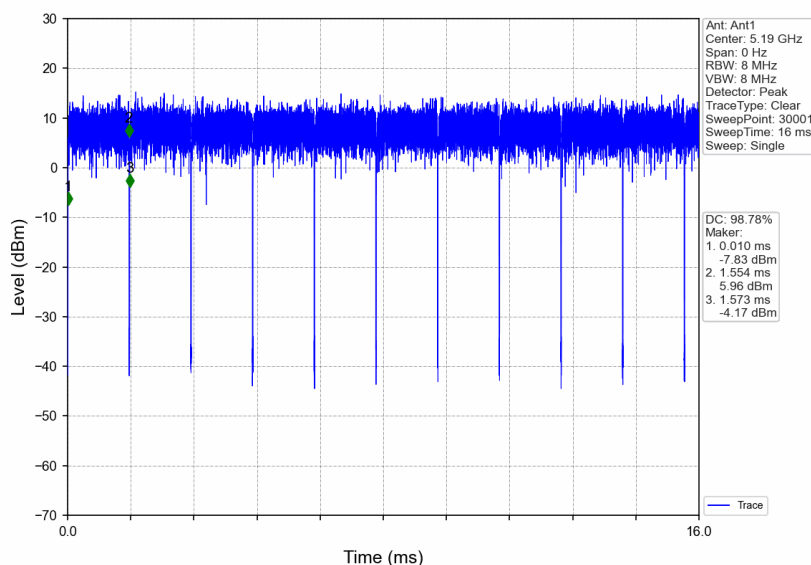
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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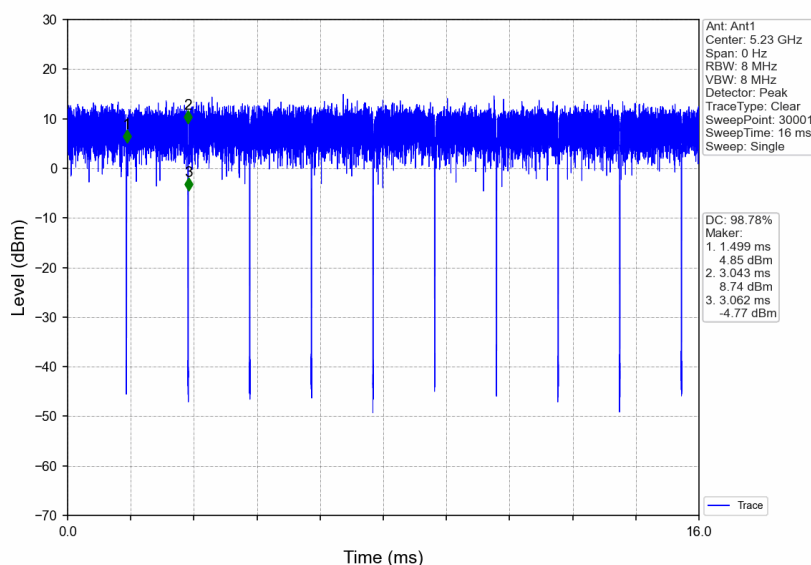
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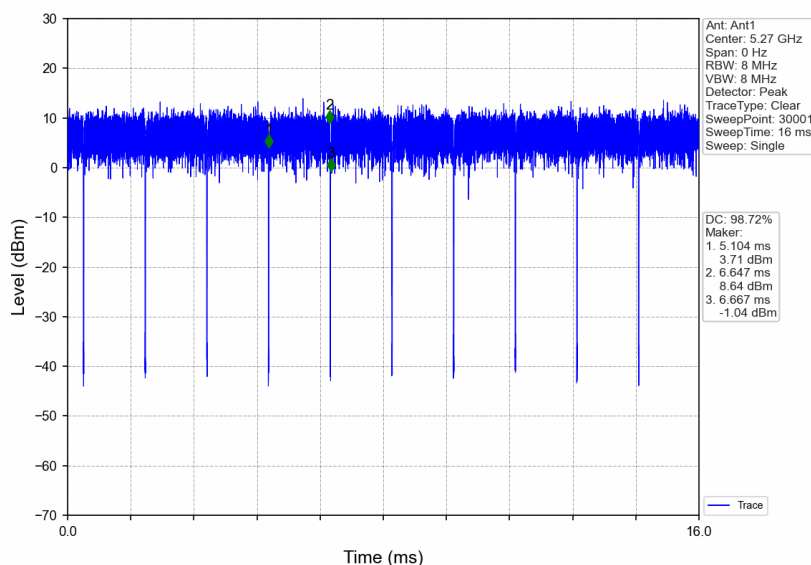
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



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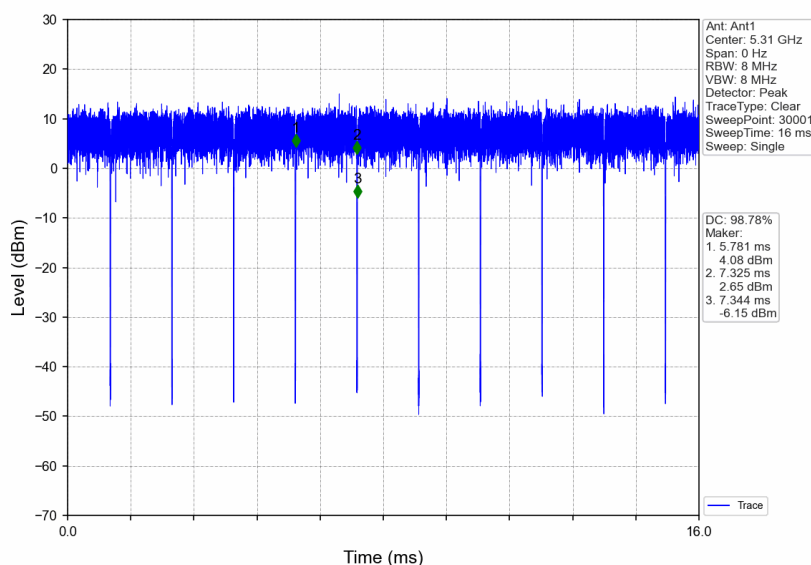
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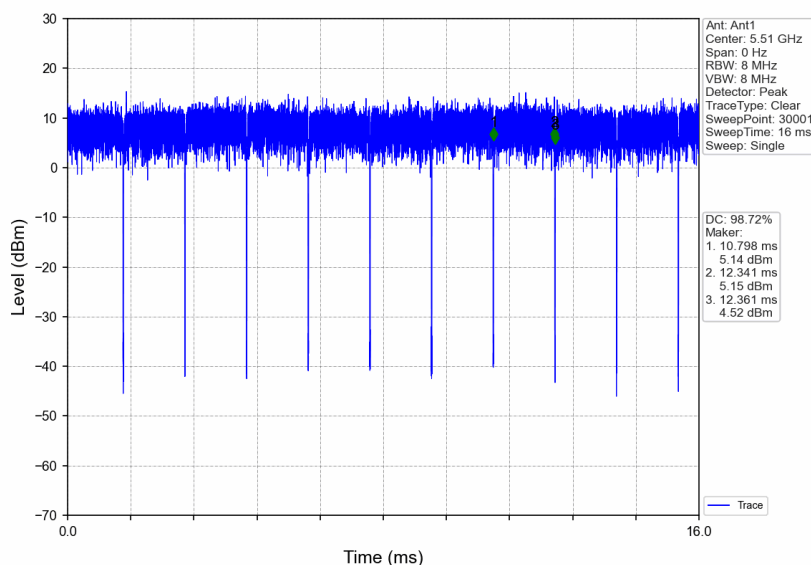
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



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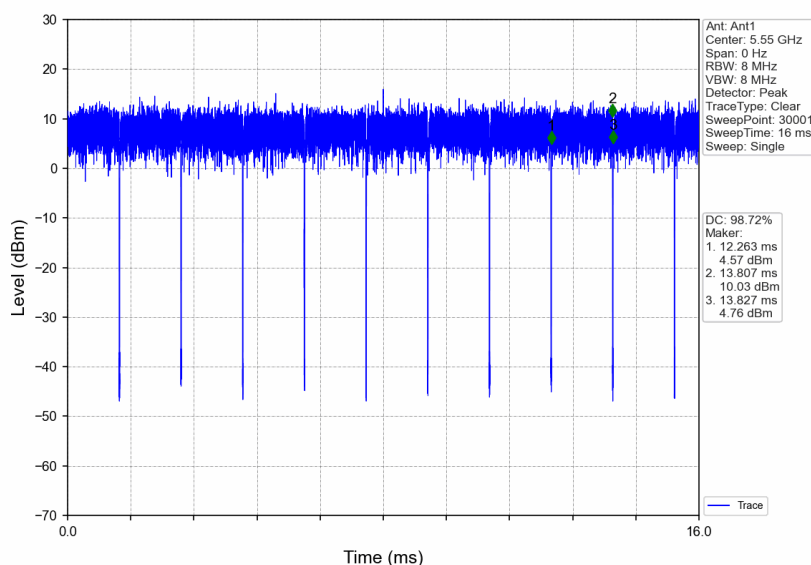
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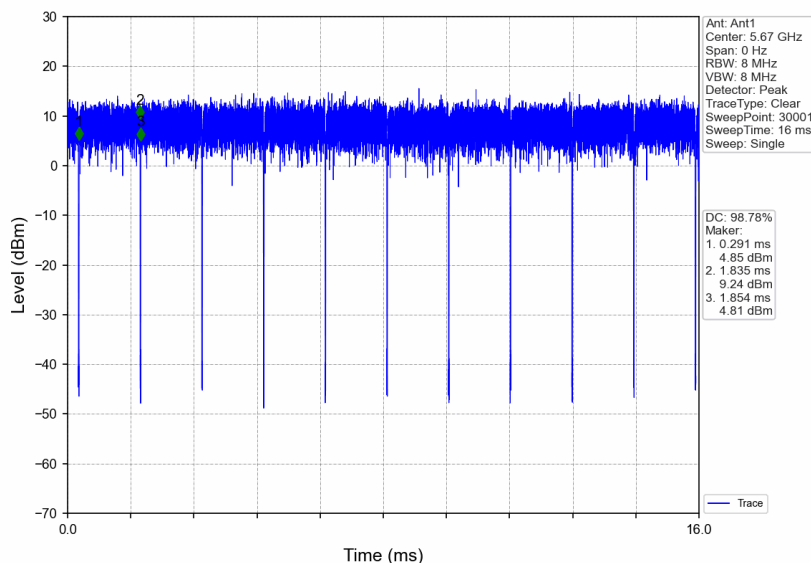
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802.11ac(VHT40) MCH 5550MHz Ant1 NTV



802.11ac(VHT40) HCH 5670MHz Ant1 NTV



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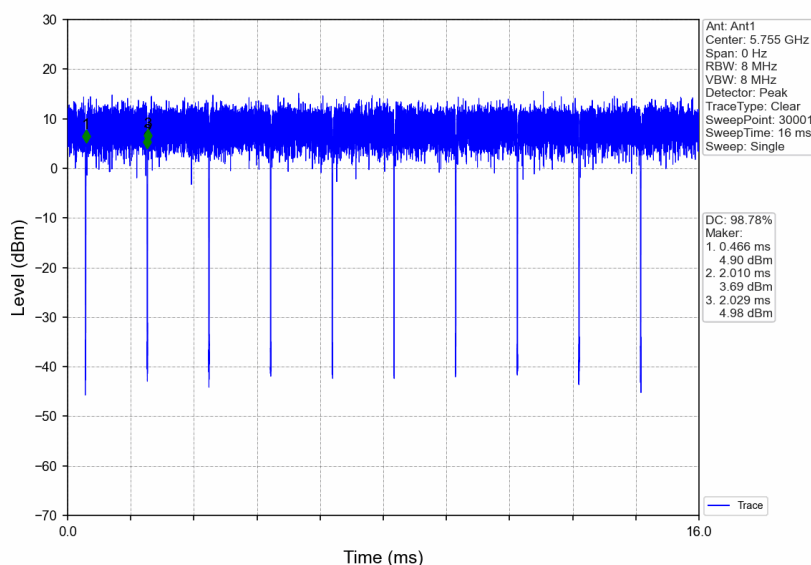
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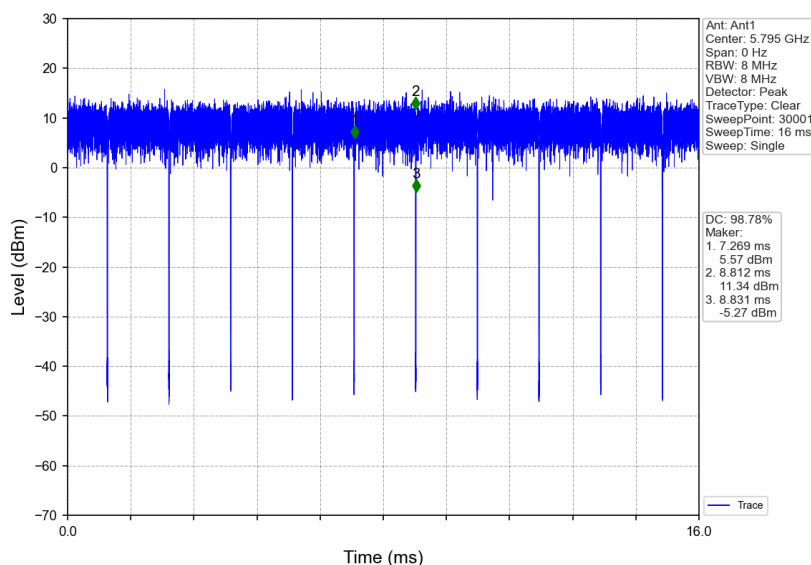
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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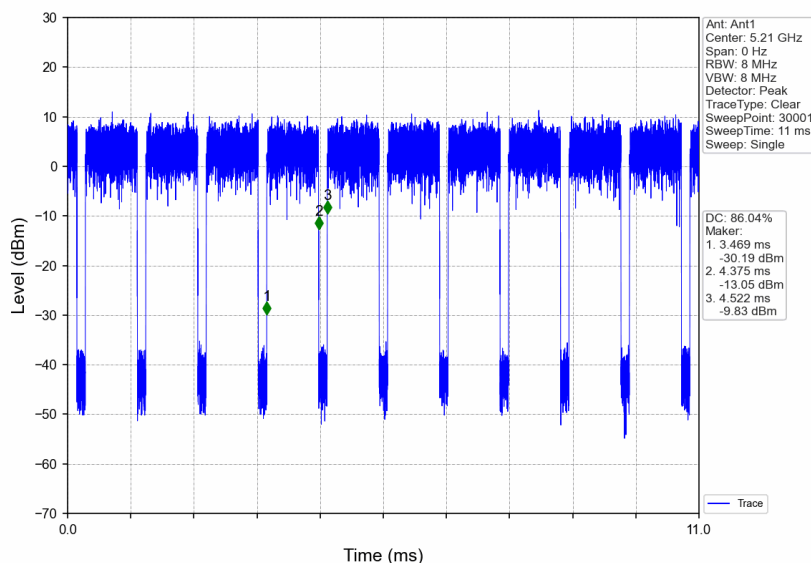
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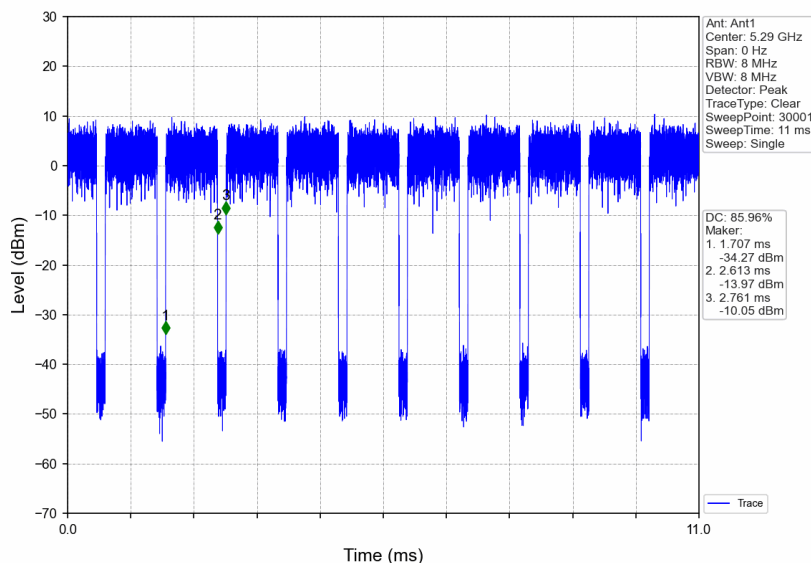
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802.11ac(VHT80) MCH 5210MHz Ant1 NTNV



802.11ac(VHT80) MCH 5290MHz Ant1 NTNV



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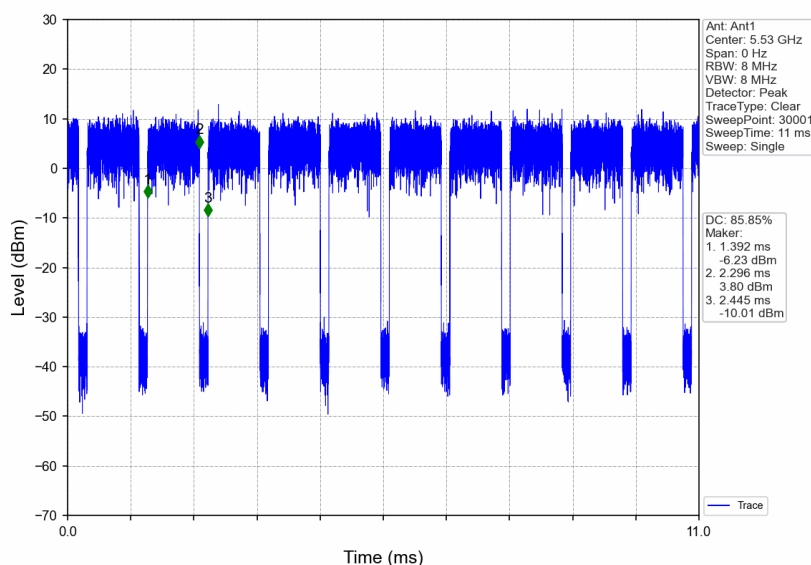
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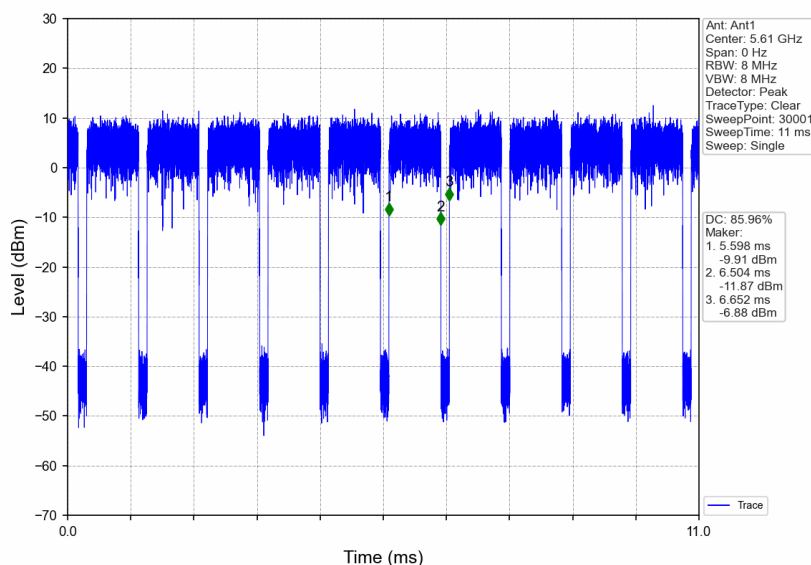
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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



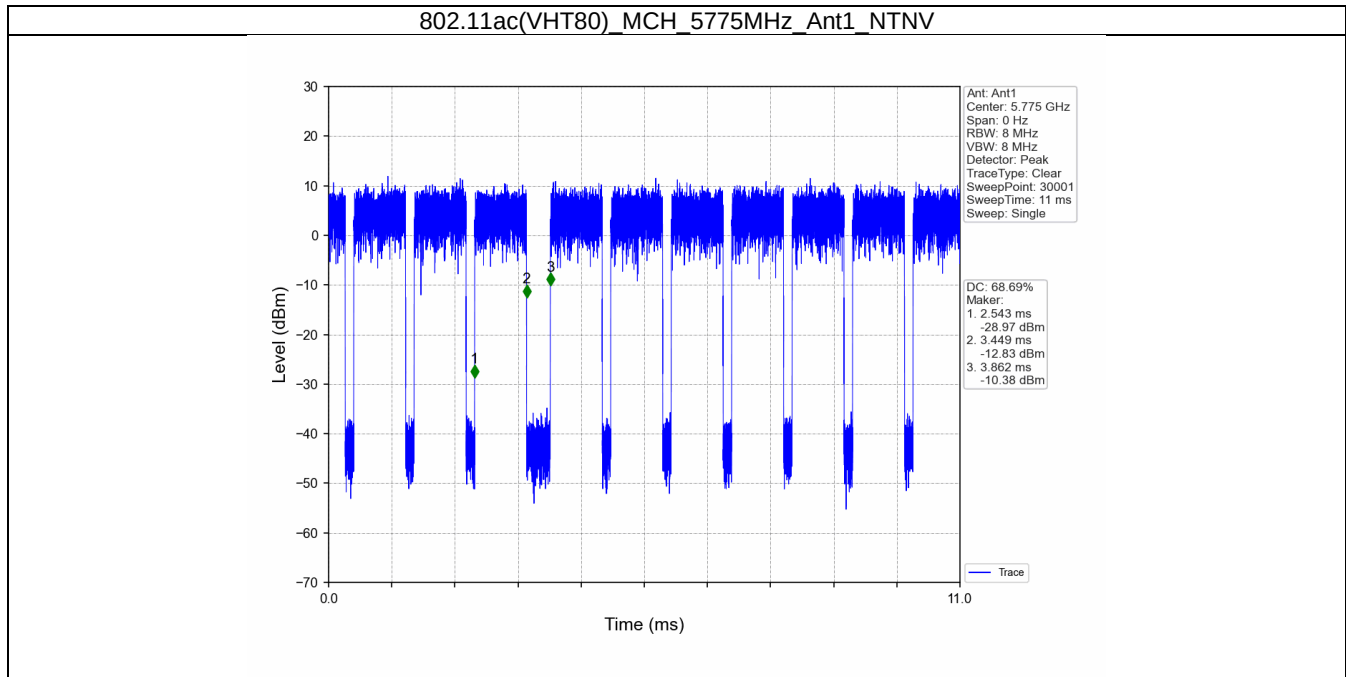
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2. Bandwidth

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	17.850	Pass
			2	17.957	Pass
		5200	1	17.714	Pass
			2	17.833	Pass
		5240	1	17.689	Pass
			2	18.062	Pass
		5260	1	17.663	Pass
			2	17.919	Pass
		5300	1	17.680	Pass
			2	17.938	Pass
		5320	1	17.638	Pass
			2	17.918	Pass
		5500	1	17.860	Pass
			2	17.867	Pass
		5580	1	17.654	Pass
			2	17.854	Pass
		5700	1	17.719	Pass
			2	17.971	Pass
		5745	1	17.704	Pass
			2	17.683	Pass
		5785	1	17.726	Pass
			2	17.628	Pass
		5825	1	17.665	Pass
			2	17.563	Pass
802.11n (HT20)	MIMO	5180	1	18.938	Pass
			2	18.918	Pass
		5200	1	18.842	Pass
			2	18.935	Pass
		5240	1	18.851	Pass
			2	18.979	Pass
		5260	1	18.948	Pass
			2	18.911	Pass
		5300	1	18.849	Pass
			2	18.982	Pass
		5320	1	18.887	Pass
			2	18.954	Pass
		5500	1	18.927	Pass
			2	18.862	Pass
		5580	1	18.939	Pass
			2	18.933	Pass
		5700	1	18.928	Pass
			2	18.941	Pass



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		5745	1	18.814	Pass
			2	18.923	Pass
		5785	1	18.752	Pass
			2	18.830	Pass
		5825	1	18.899	Pass
			2	18.805	Pass
802.11n (HT40)	MIMO	5190	1	36.895	Pass
			2	37.015	Pass
		5230	1	36.925	Pass
			2	36.940	Pass
		5270	1	36.960	Pass
			2	36.901	Pass
		5310	1	36.830	Pass
			2	36.904	Pass
		5510	1	36.963	Pass
			2	36.979	Pass
		5550	1	36.941	Pass
			2	36.960	Pass
		5670	1	36.886	Pass
			2	37.044	Pass
		5755	1	36.921	Pass
			2	36.988	Pass
		5795	1	36.872	Pass
			2	36.951	Pass
802.11ac (VHT20)	MIMO	5180	1	19.236	Pass
			2	19.005	Pass
		5200	1	18.912	Pass
			2	18.917	Pass
		5240	1	18.887	Pass
			2	19.017	Pass
		5260	1	18.862	Pass
			2	18.943	Pass
		5300	1	18.871	Pass
			2	19.013	Pass
		5320	1	18.829	Pass
			2	18.933	Pass
		5500	1	18.939	Pass
			2	18.864	Pass
		5580	1	18.833	Pass
			2	18.924	Pass
		5700	1	18.906	Pass
			2	19.011	Pass
		5745	1	18.883	Pass
			2	18.959	Pass
802.11ac (VHT40)	MIMO	5190	1	37.016	Pass
			2	36.891	Pass
		5230	1	36.971	Pass
			2	36.955	Pass



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		5270	1	36.915	Pass
			2	36.900	Pass
		5310	1	36.813	Pass
			2	37.027	Pass
		5510	1	37.053	Pass
			2	37.092	Pass
		5550	1	36.953	Pass
			2	37.083	Pass
		5670	1	37.004	Pass
			2	37.089	Pass
		5755	1	36.860	Pass
			2	37.081	Pass
		5795	1	36.877	Pass
			2	36.868	Pass
802.11ac (VHT80)	MIMO	5210	1	76.518	Pass
			2	76.602	Pass
		5290	1	76.442	Pass
			2	76.590	Pass
		5530	1	76.719	Pass
			2	76.478	Pass
		5610	1	76.503	Pass
			2	76.752	Pass
		5775	1	76.696	Pass
			2	77.016	Pass



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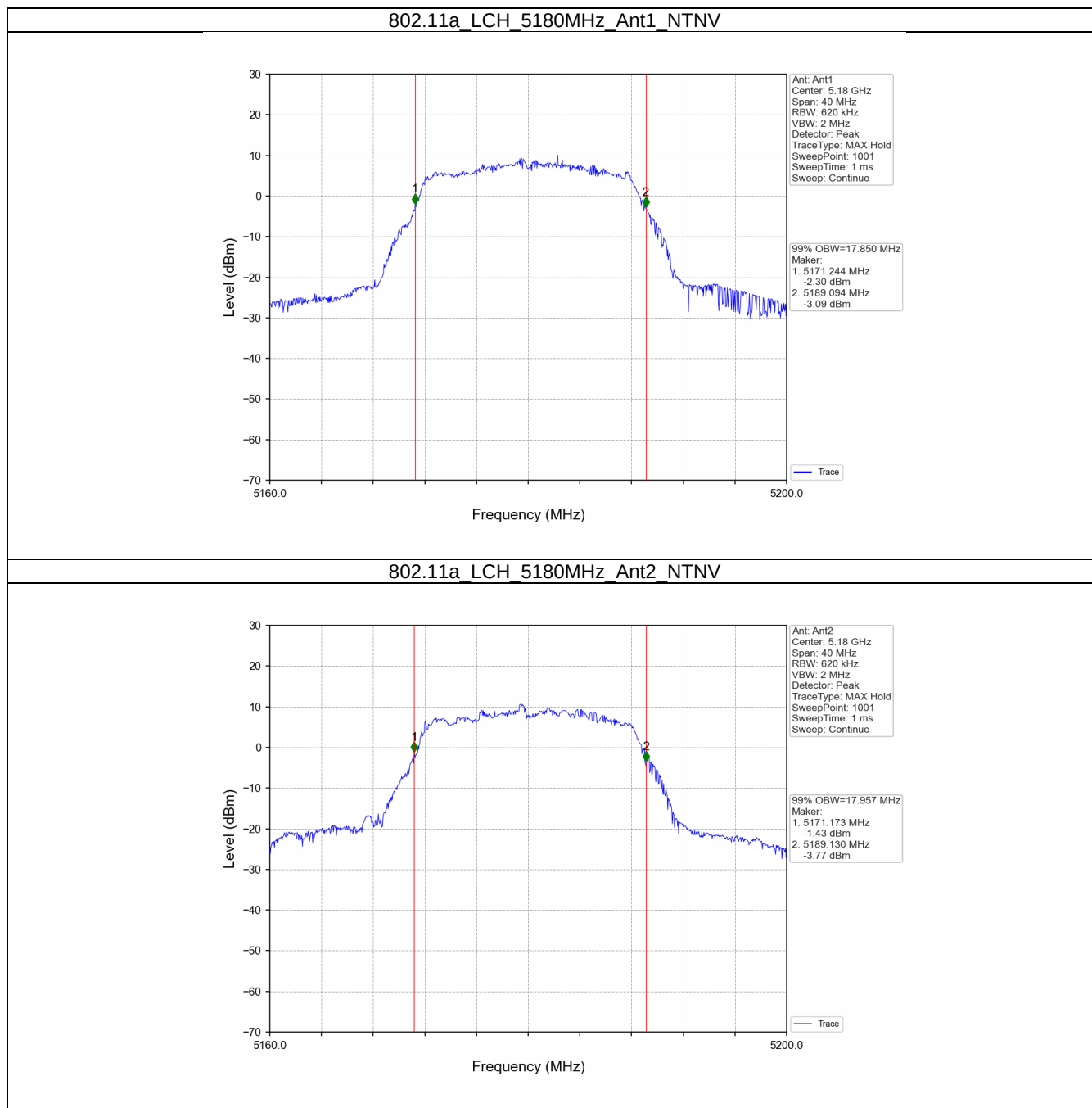
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2.1.2 Test Graph



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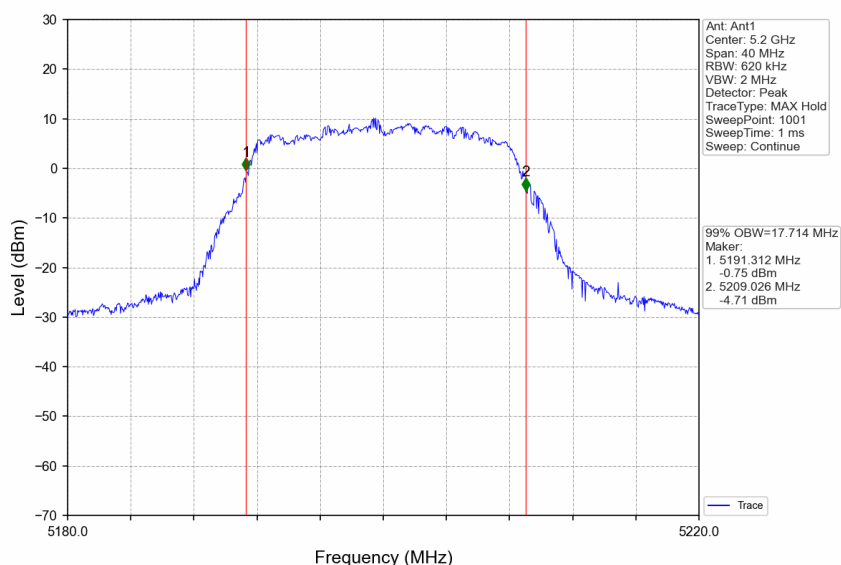
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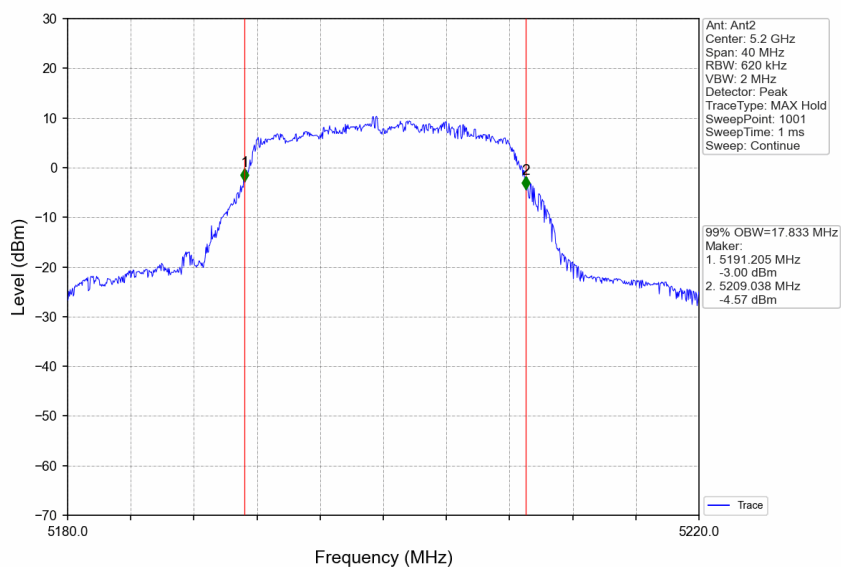
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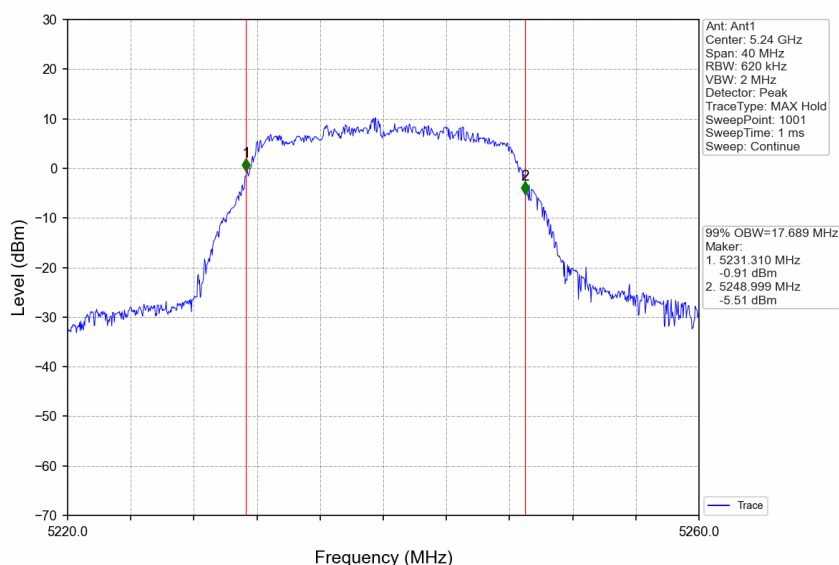
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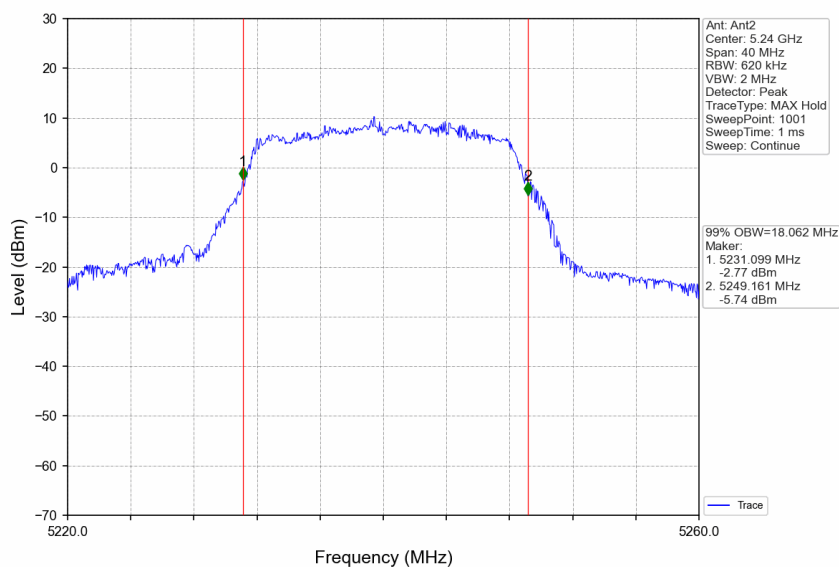
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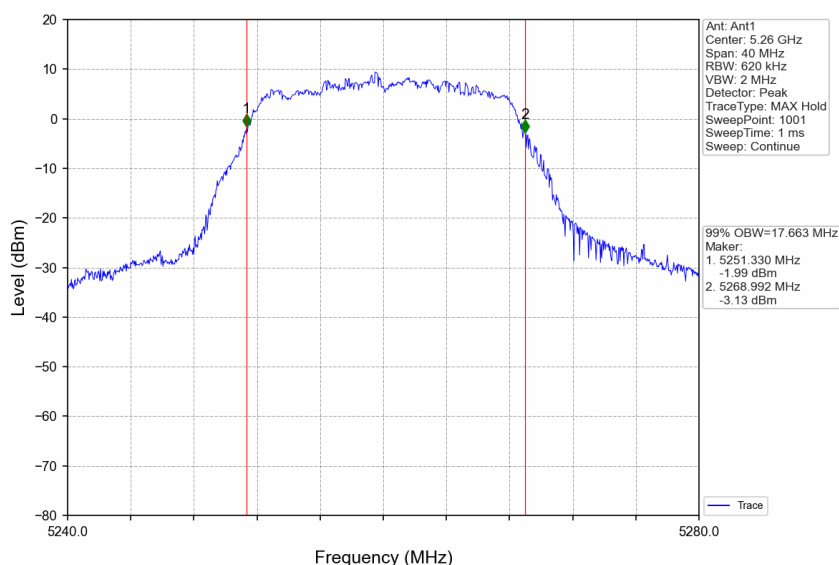
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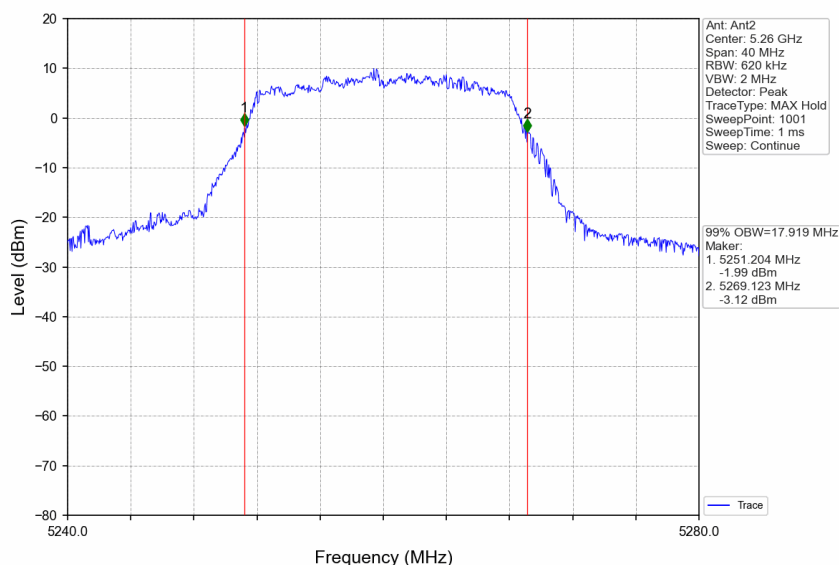
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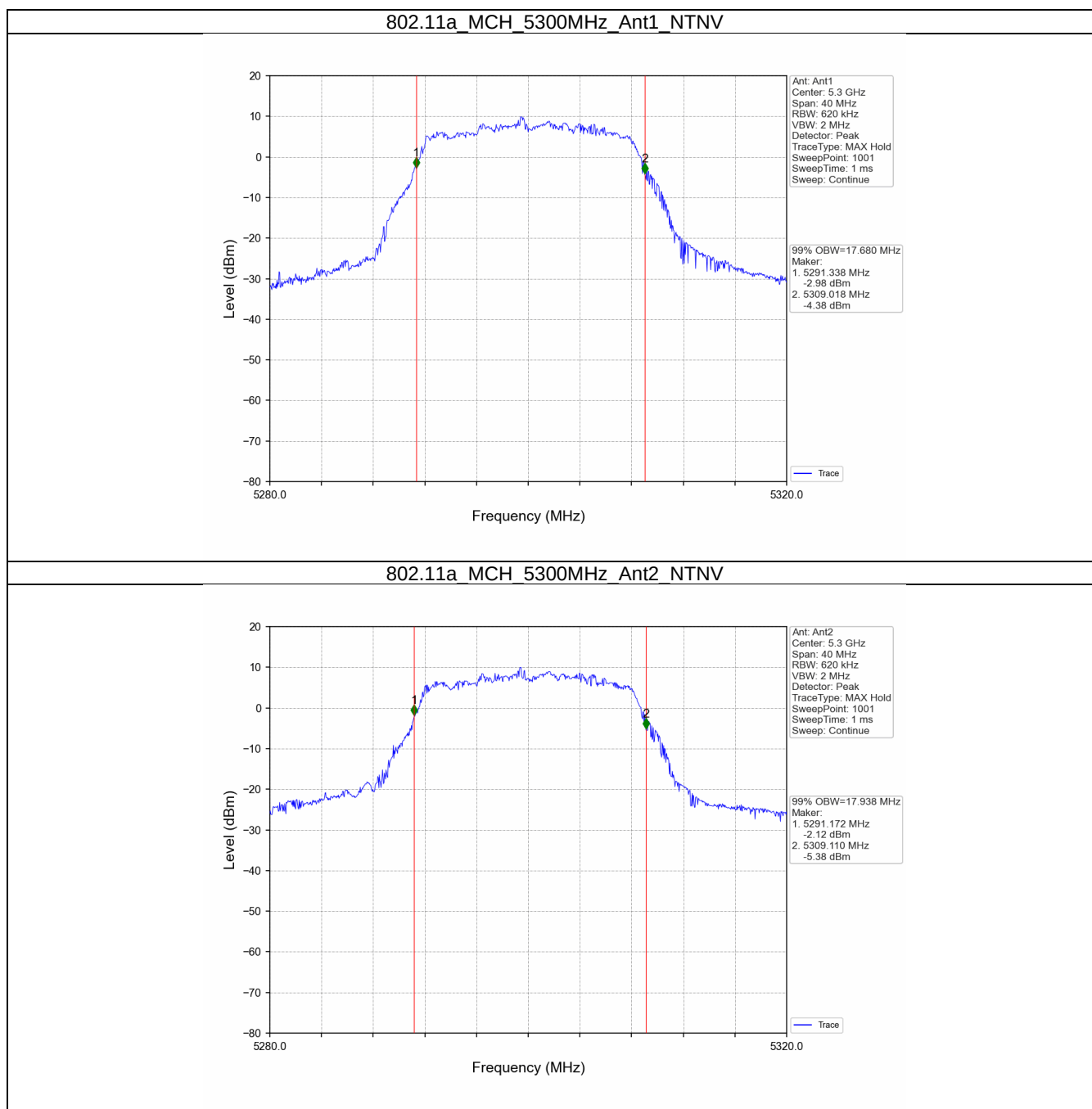
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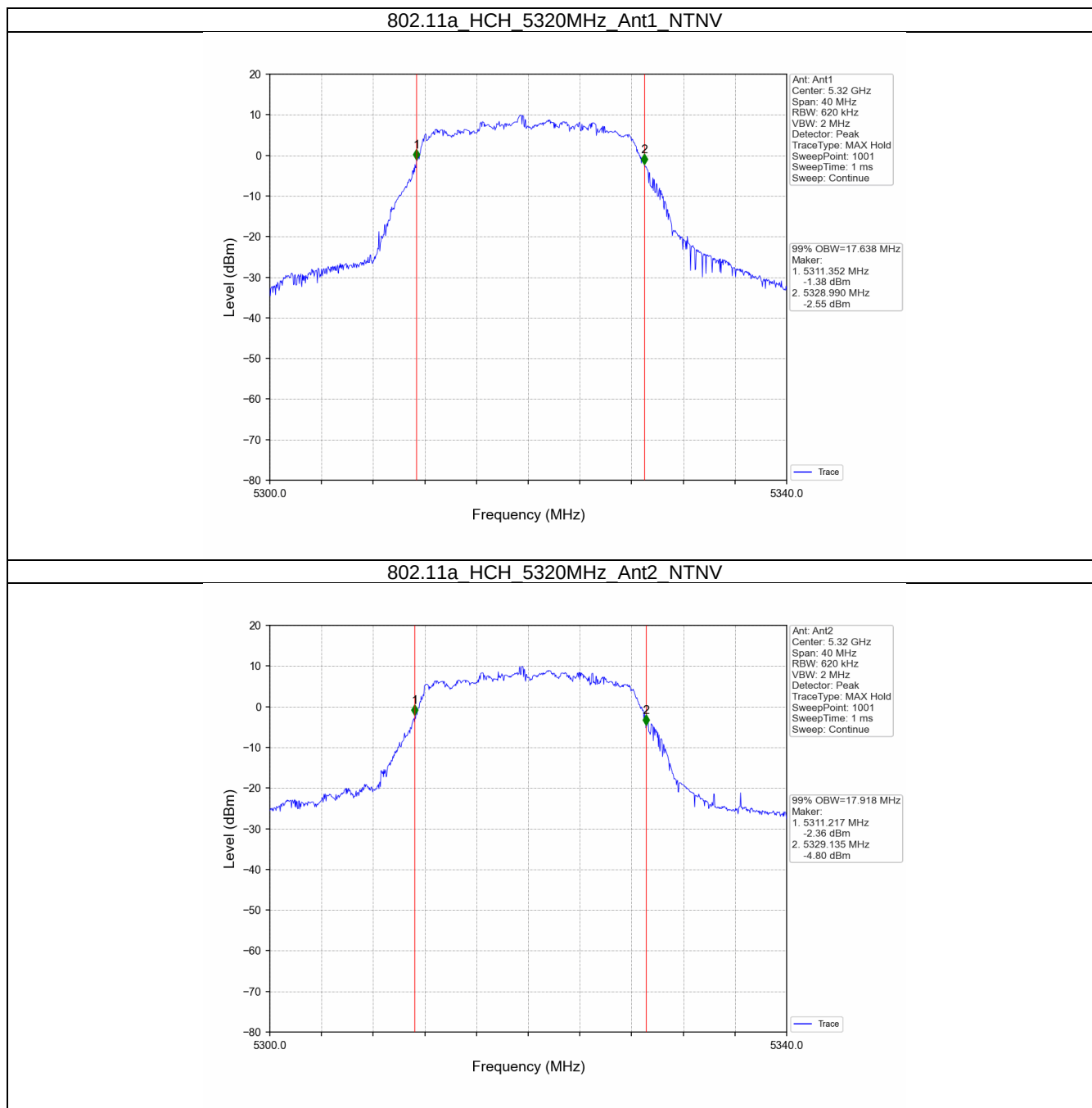
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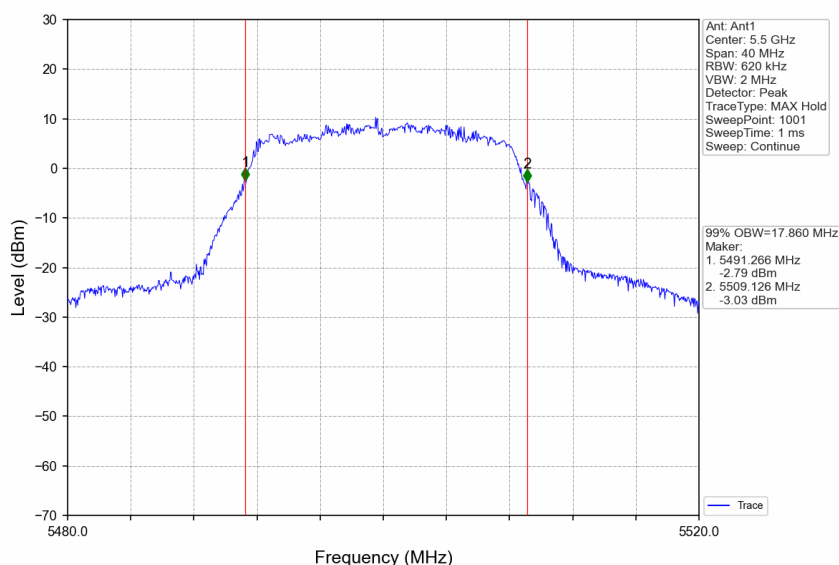
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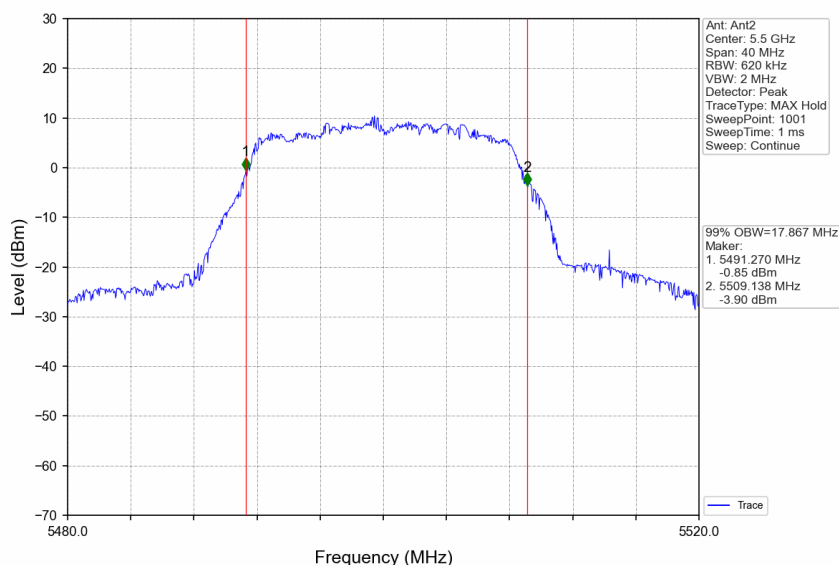
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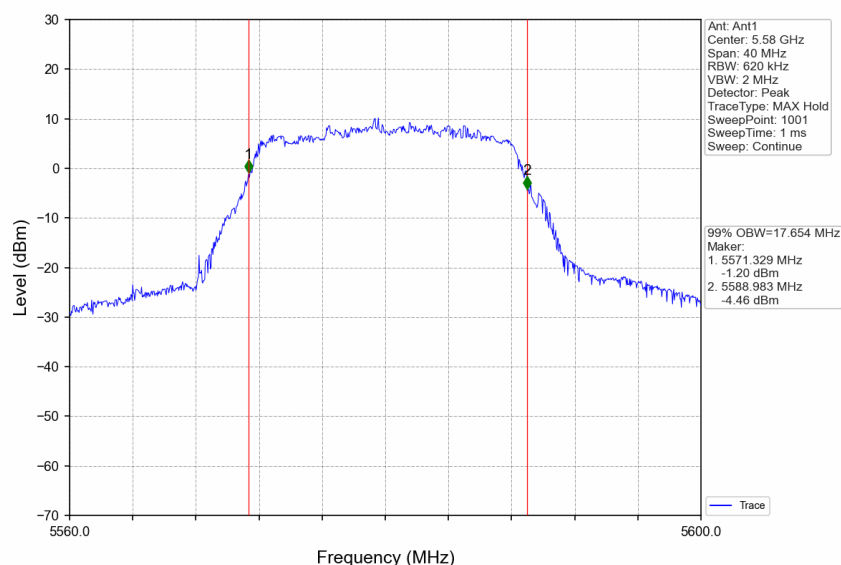
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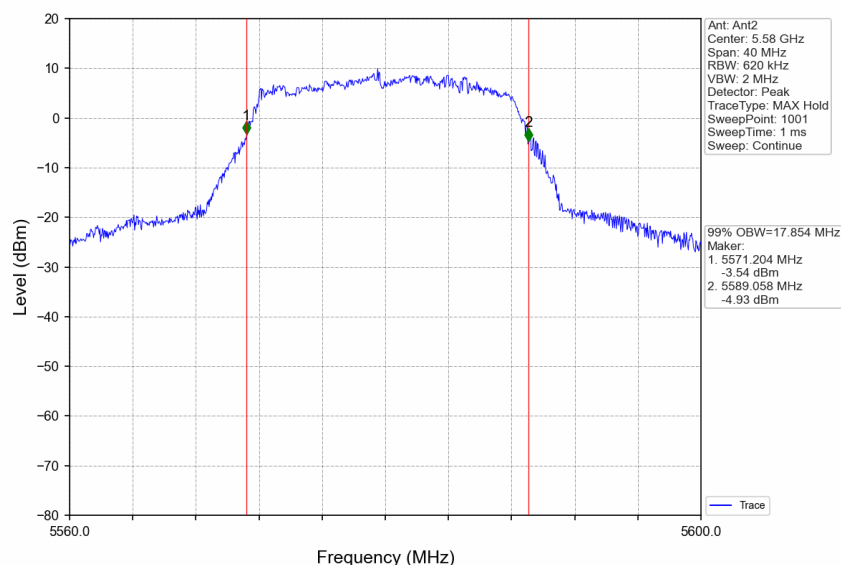
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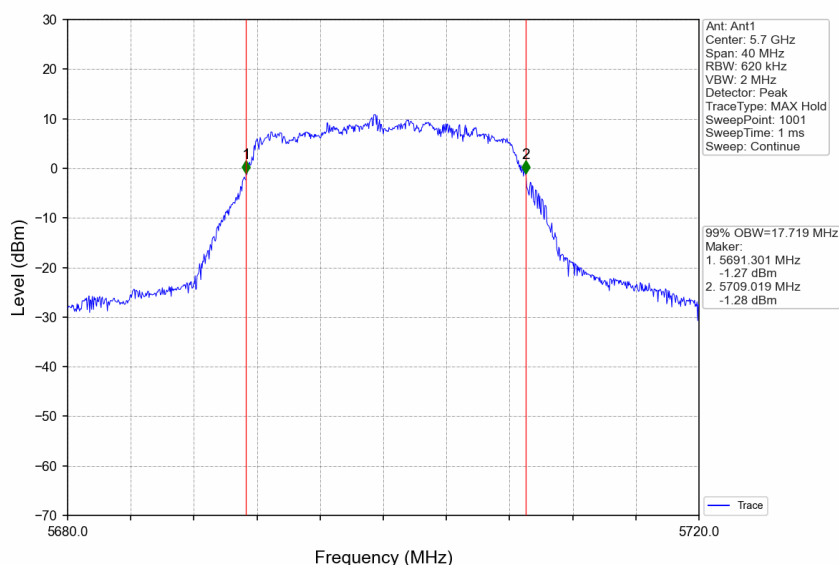
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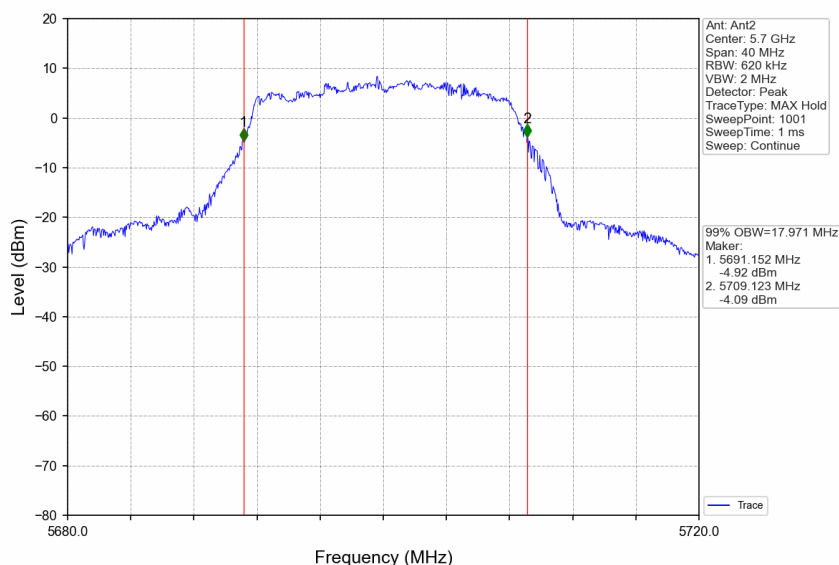
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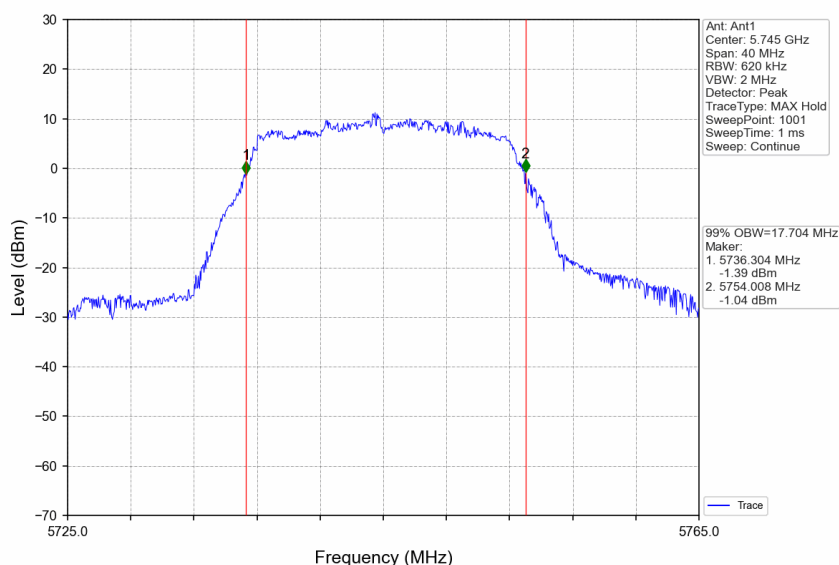
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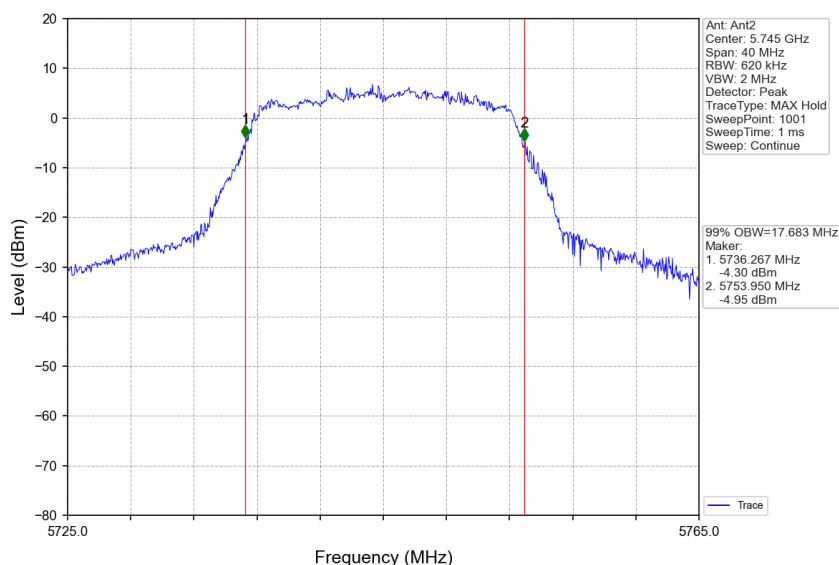
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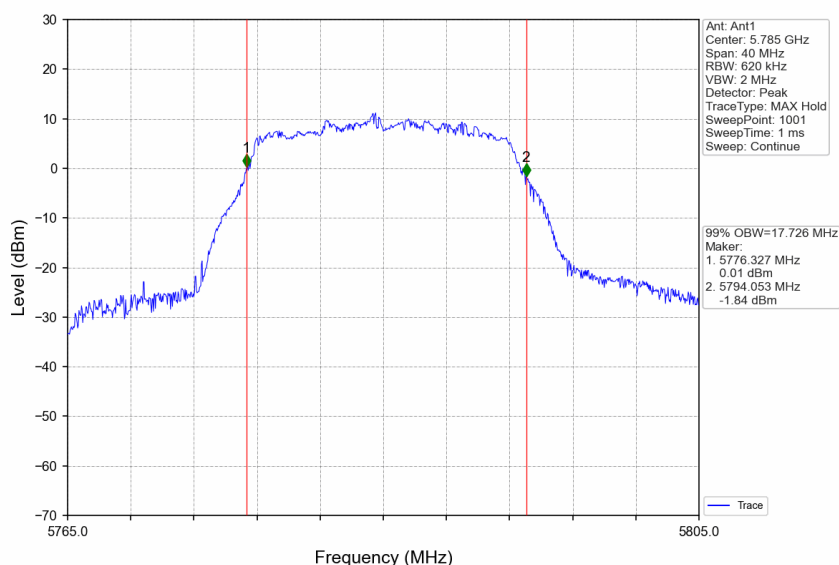
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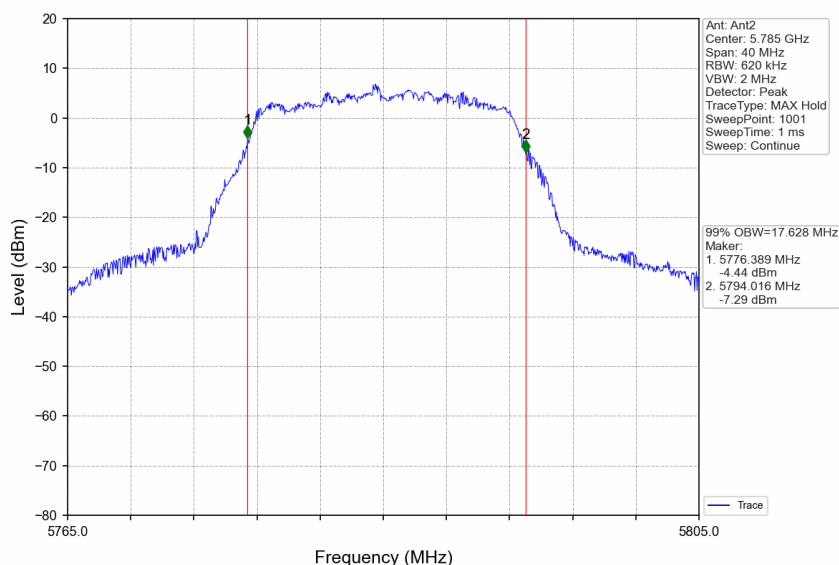
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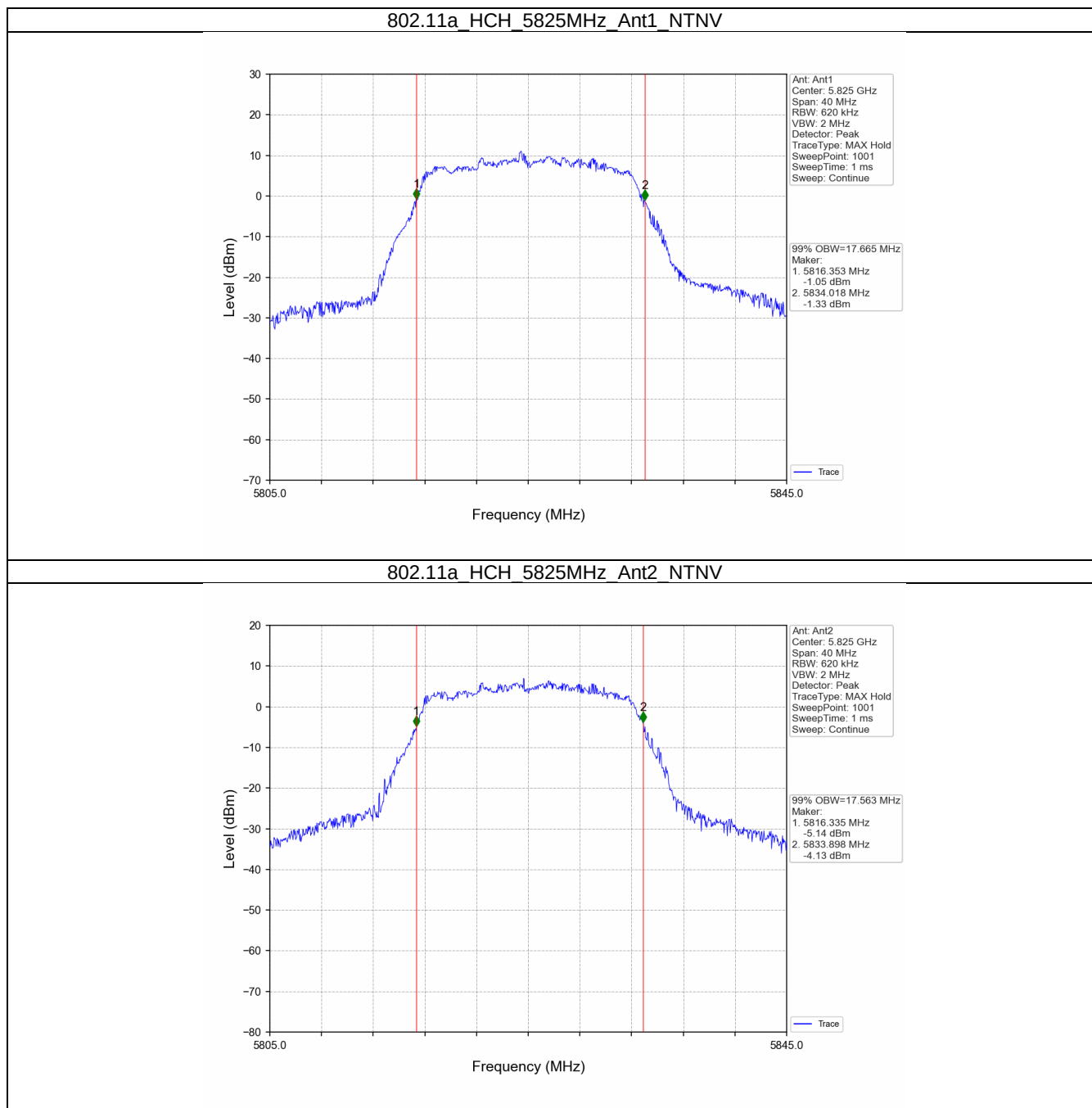
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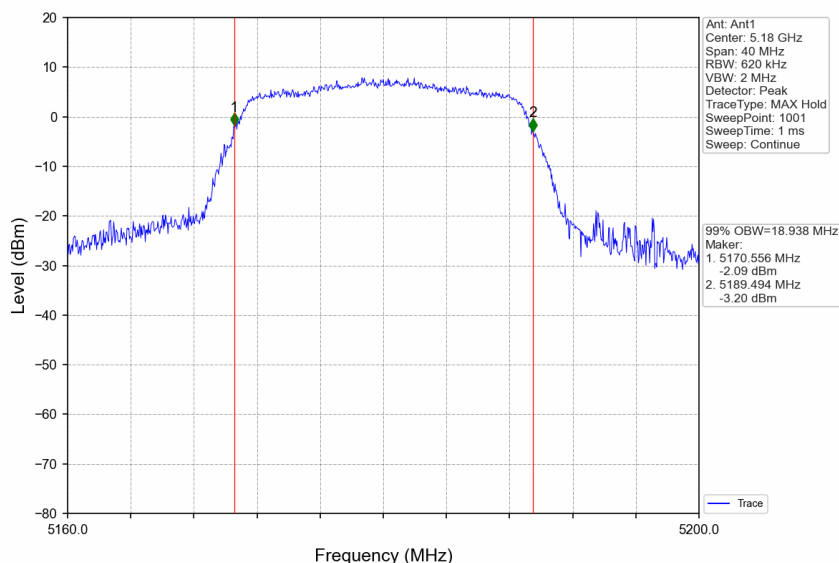
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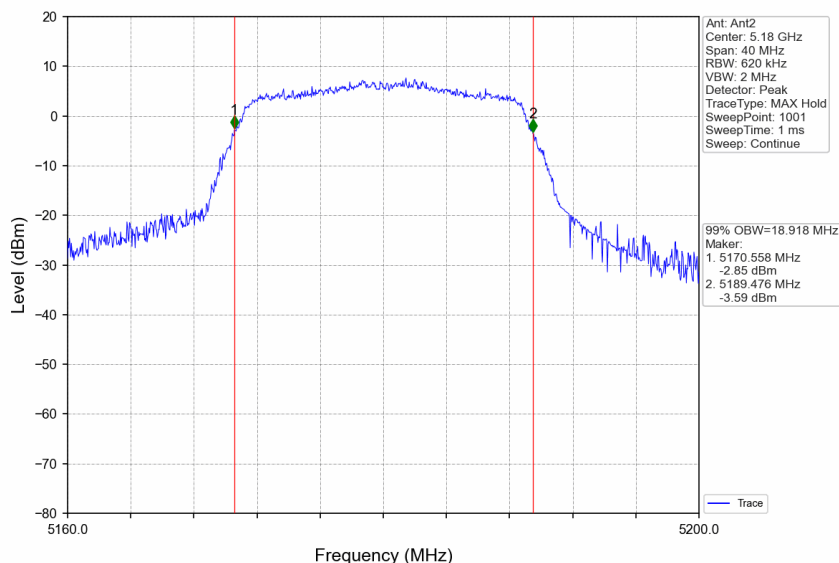
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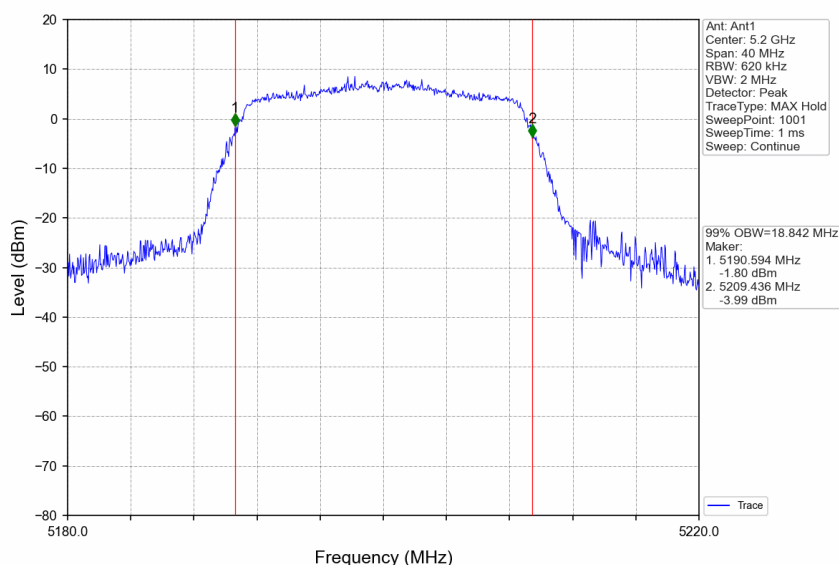
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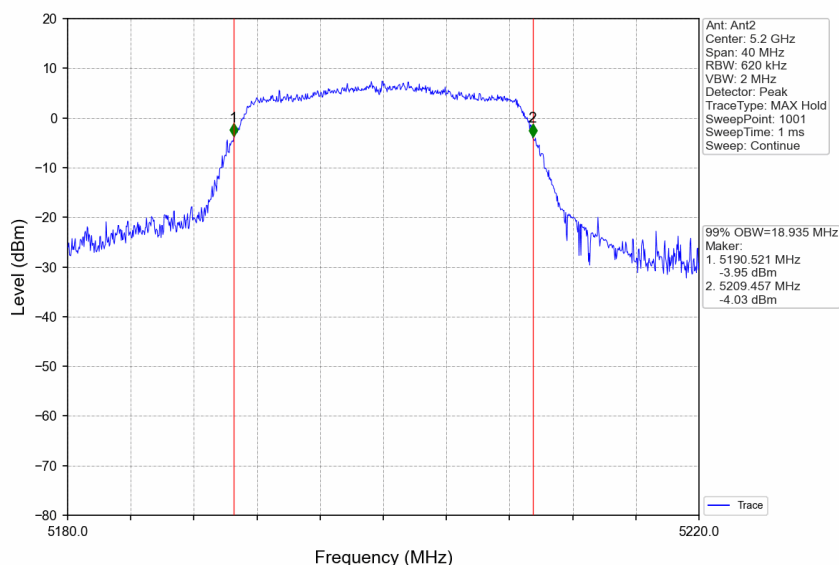
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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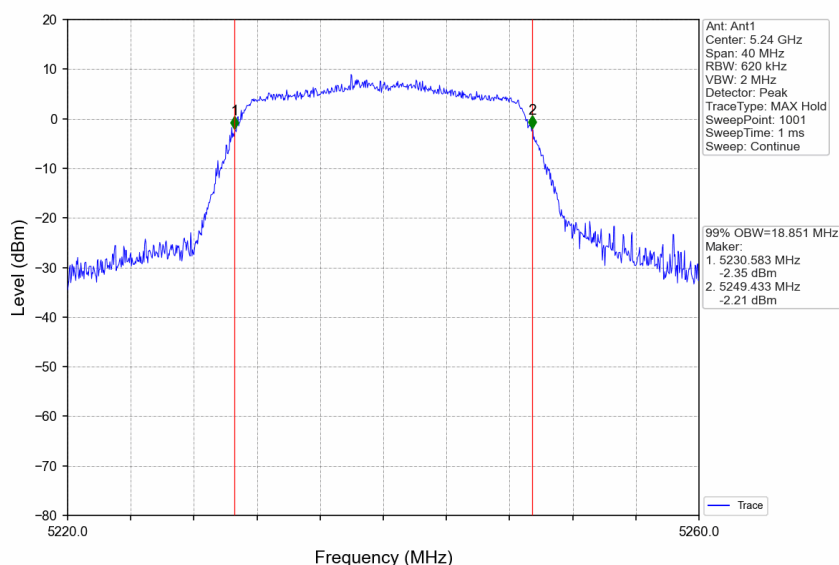
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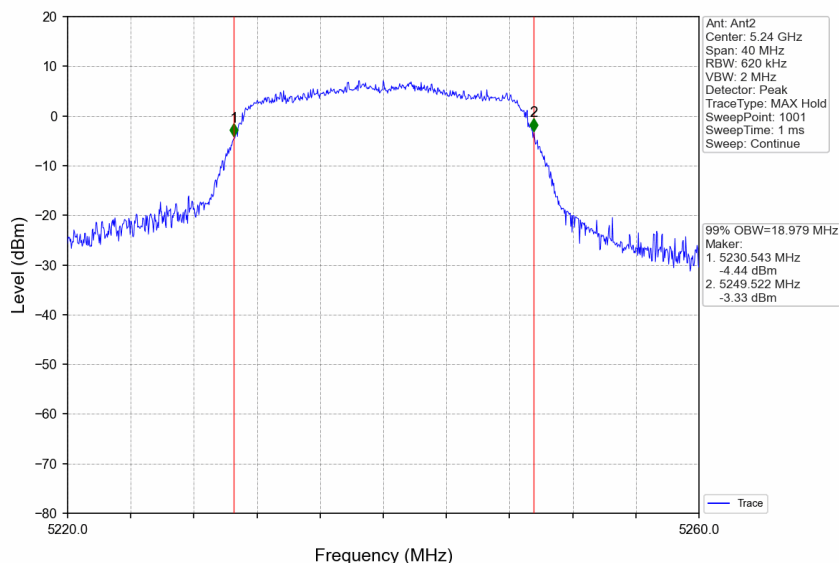
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802.11n(HT20) HCH 5240MHz Ant1 NTV



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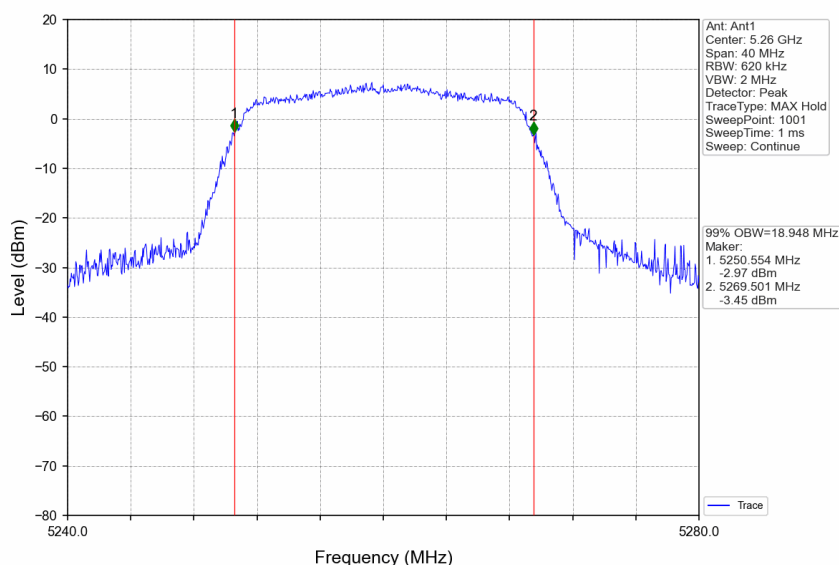
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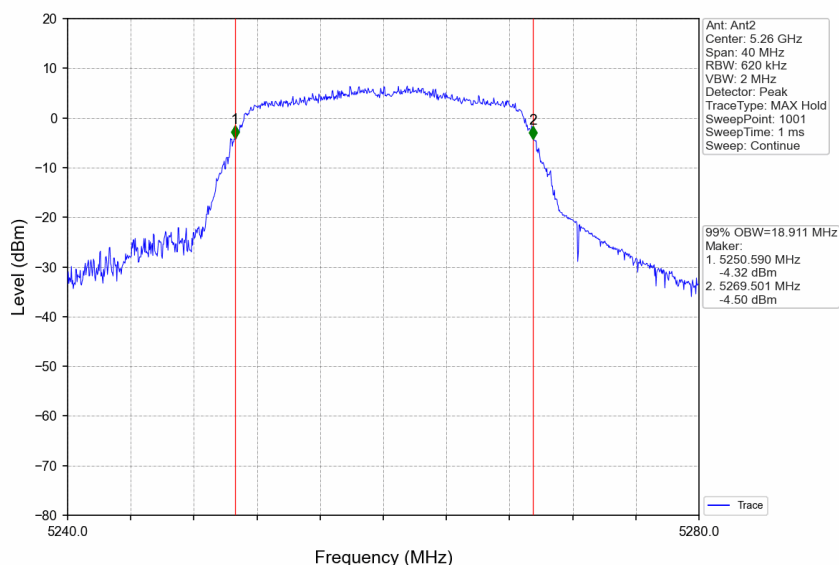
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



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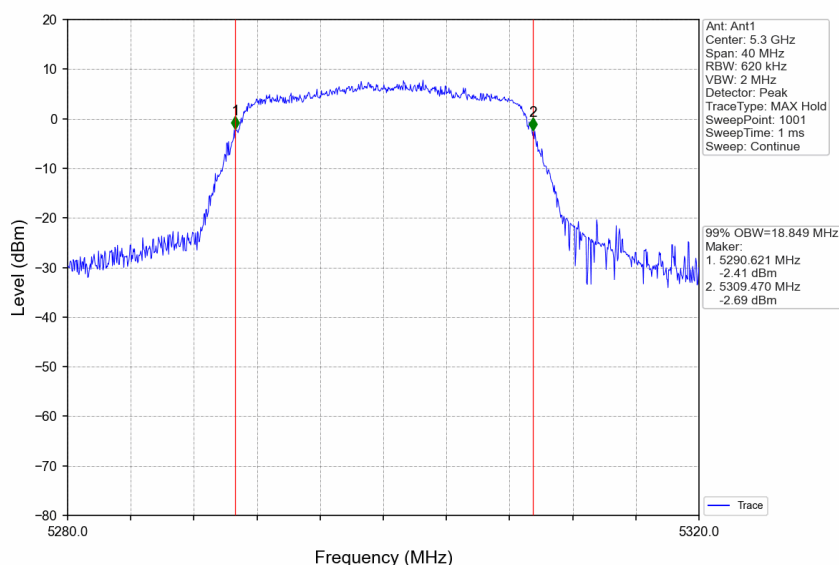
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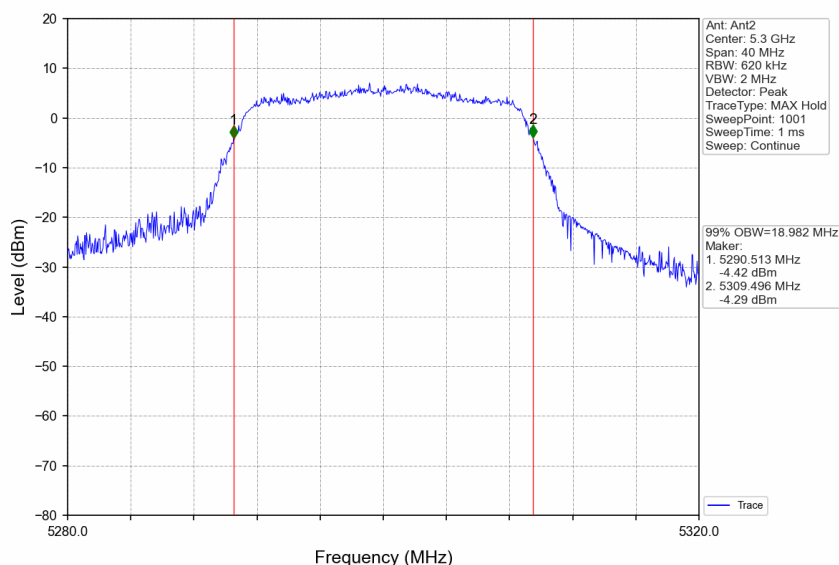
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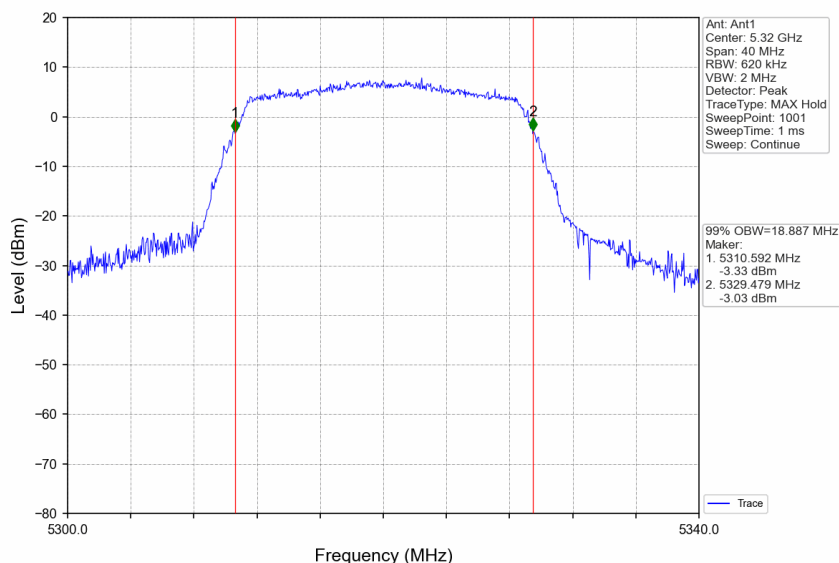
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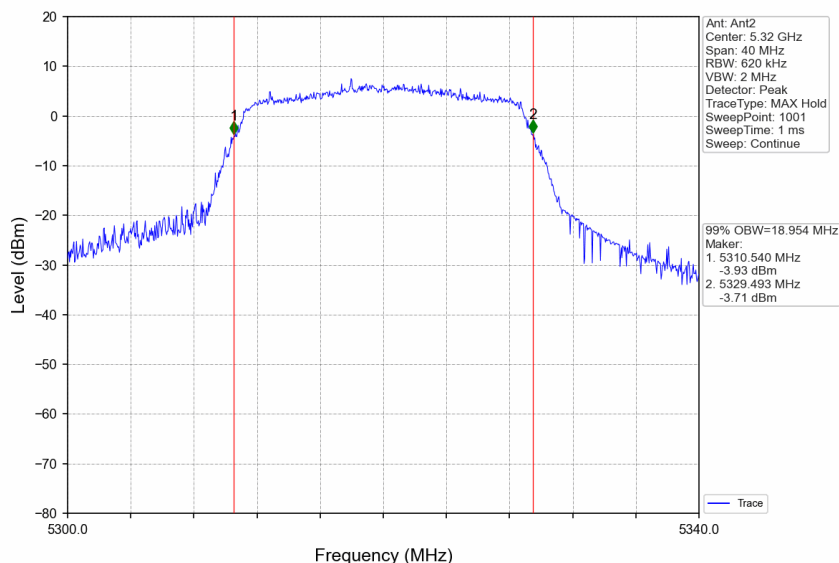
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