

Appendix B for KSCR220100003202AT-FCC-5G-RTL8812CU

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	2.064	2.294	89.97	0.46	5.60
		5200	2.063	2.295	89.89	0.46	4.86
		5240	2.064	2.287	90.25	0.45	5.28
		5745	2.063	2.285	90.28	0.44	5.29
		5785	2.064	2.295	89.93	0.46	5.63
		5825	2.064	2.295	89.93	0.46	5.63
802.11n (HT20)	MIMO	5180	1.920	2.124	90.40	0.44	4.39
		5200	1.920	2.141	89.68	0.47	5.58
		5240	1.921	2.152	89.27	0.49	5.56
		5745	1.920	2.151	89.26	0.49	5.56
		5785	1.920	2.115	90.78	0.42	3.64
		5825	1.919	2.142	89.59	0.48	4.79
802.11n (HT40)	MIMO	5190	0.944	1.157	81.59	0.88	4.71
		5230	0.944	1.157	81.59	0.88	8.39
		5755	0.945	1.220	77.46	1.11	12.64
		5795	0.944	1.148	82.23	0.85	6.28
802.11ac (VHT20)	MIMO	5180	1.933	2.142	90.24	0.45	3.93
		5200	1.932	2.169	89.07	0.50	4.23
		5240	1.932	2.187	88.34	0.54	5.41
		5745	1.932	2.178	88.71	0.52	4.66
		5785	1.932	2.429	79.54	0.99	14.64
		5825	1.932	2.178	88.71	0.52	5.02
802.11ac (VHT40)	MIMO	5190	0.953	1.198	79.55	0.99	7.15
		5230	0.953	1.207	78.96	1.03	7.04
		5755	0.952	1.206	78.94	1.03	9.96
		5795	0.952	1.198	79.47	1.00	7.88
802.11ac (VHT80)	MIMO	5210	0.461	0.715	64.48	1.91	15.02
		5775	0.460	0.706	65.16	1.86	14.15

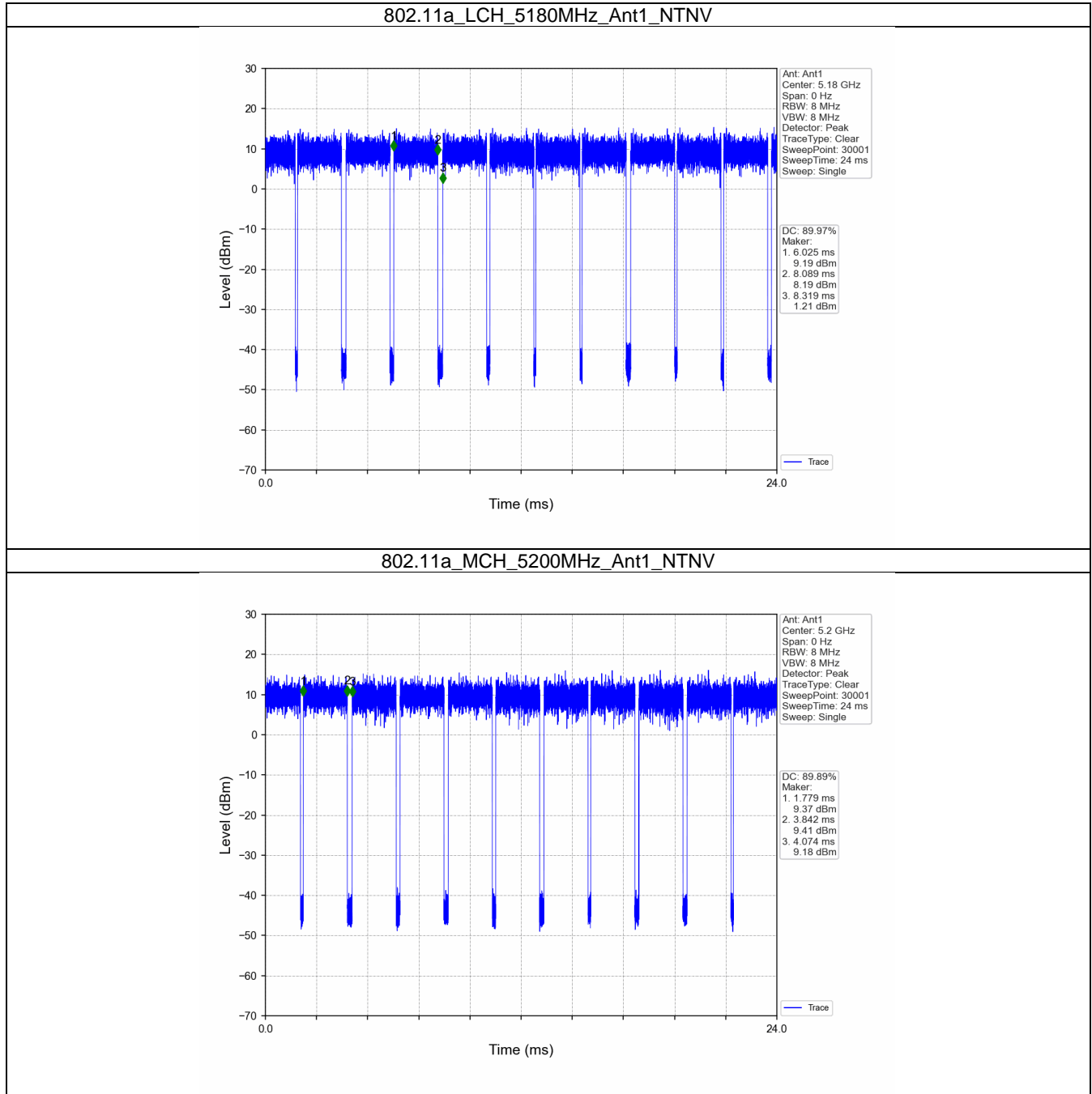


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1.1.2 Test Graph



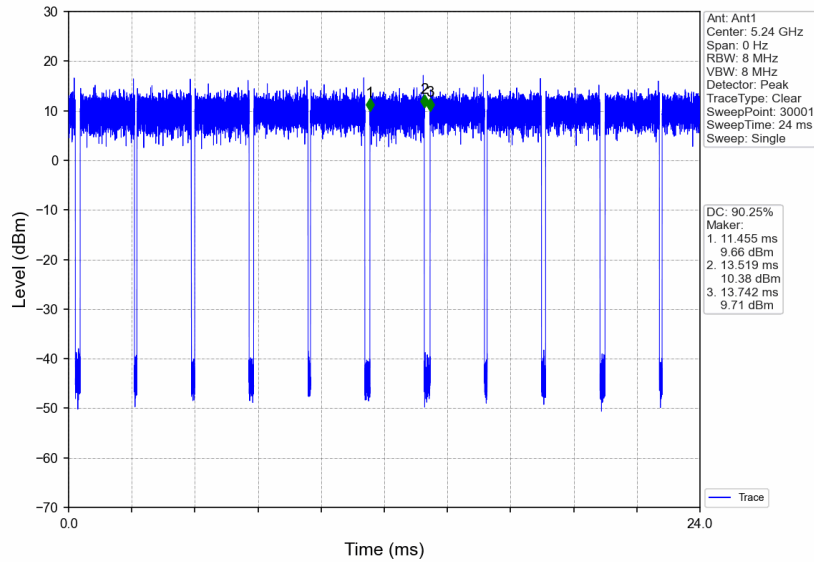
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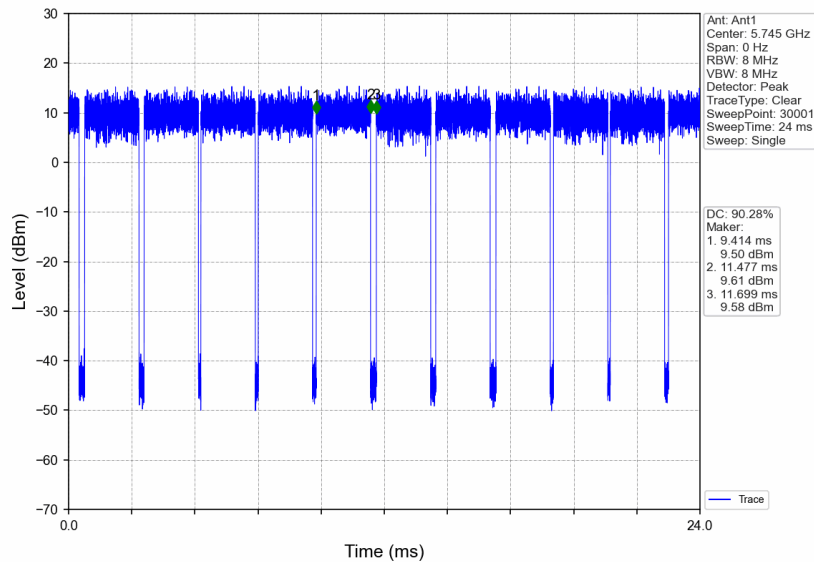
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



802.11a\_LCH\_5745MHz\_Ant1\_NTNV



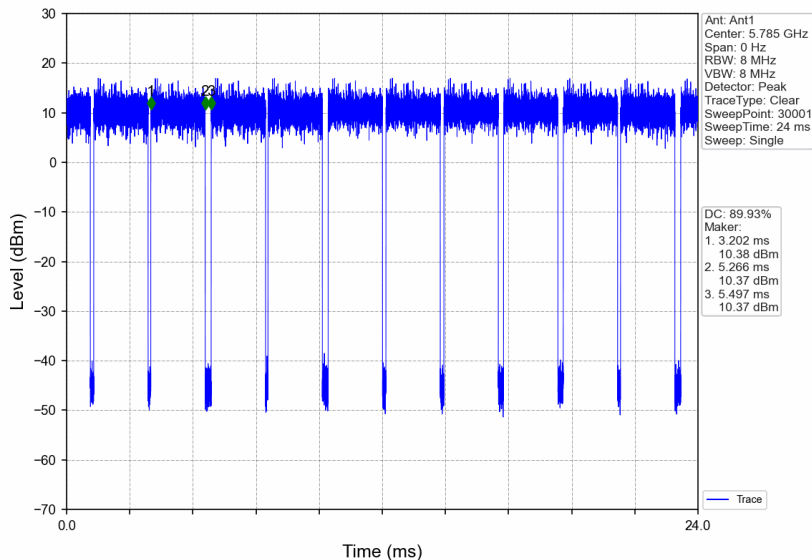
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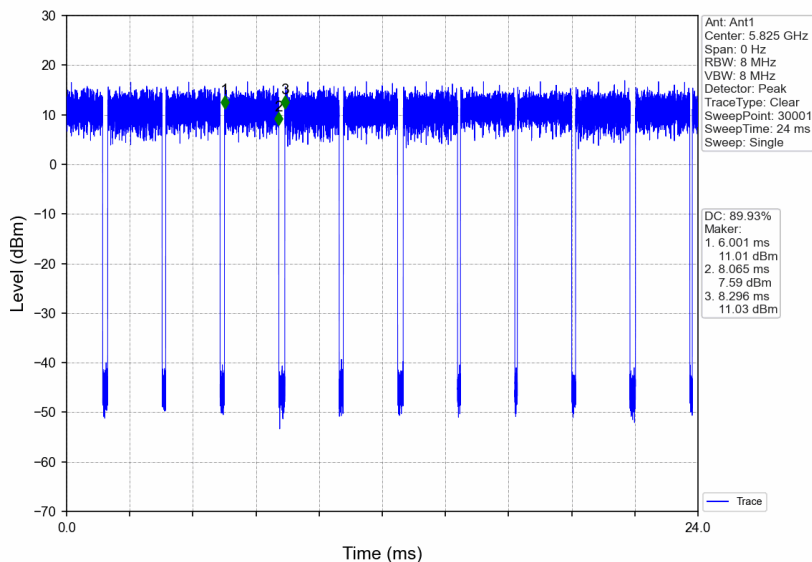
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802.11a\_MCH\_5785MHz\_Ant1\_NTNV



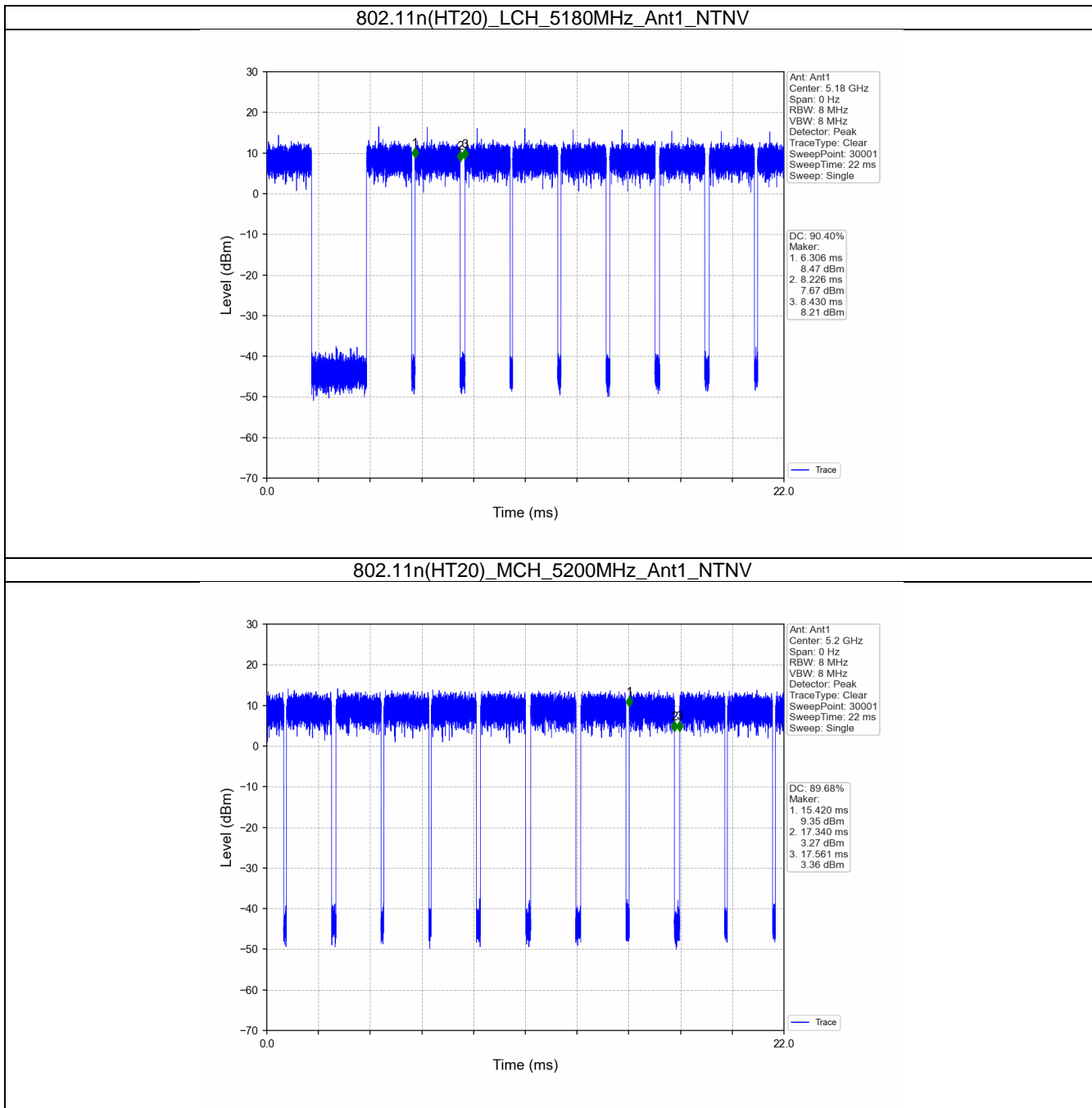
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



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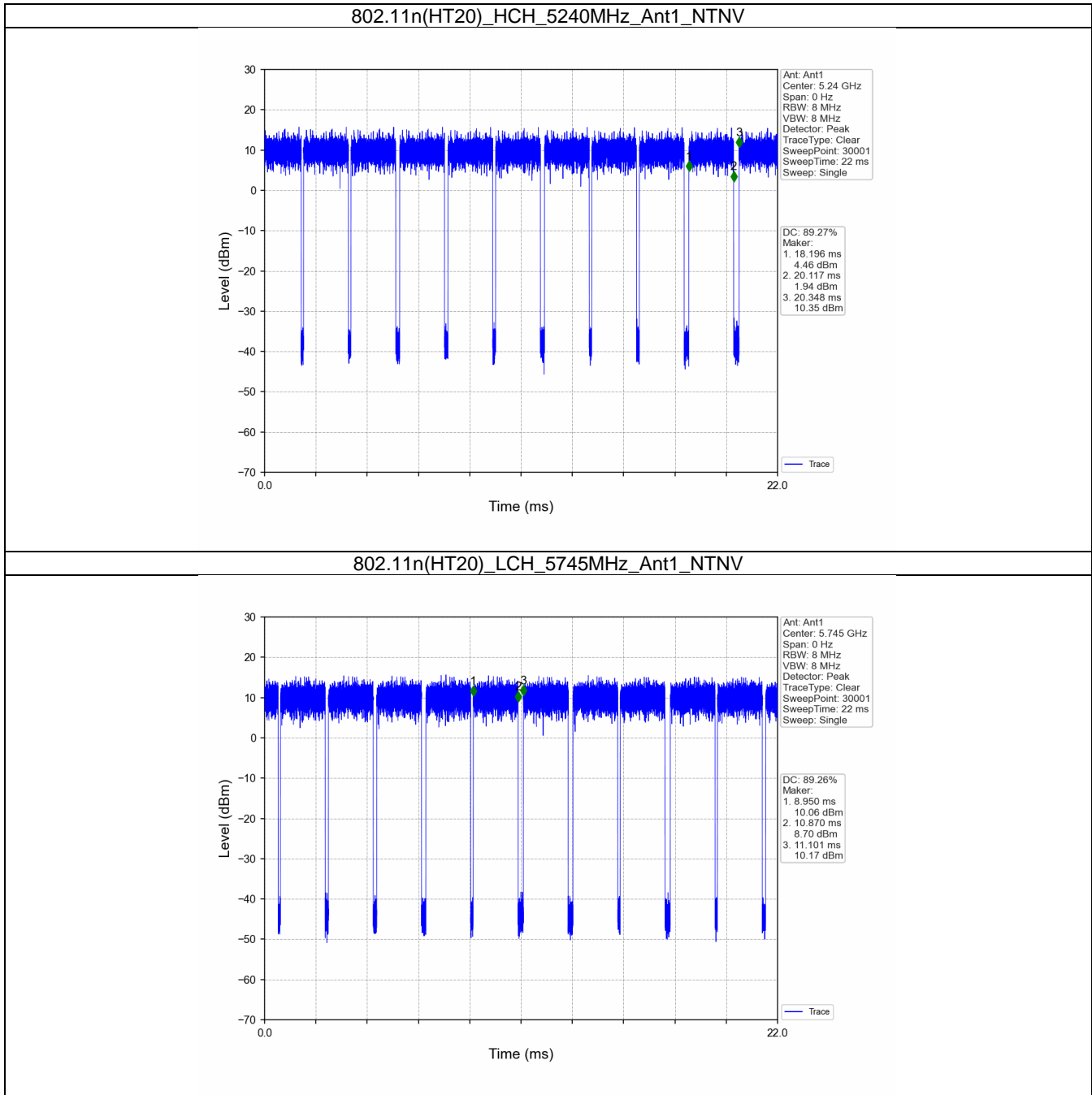
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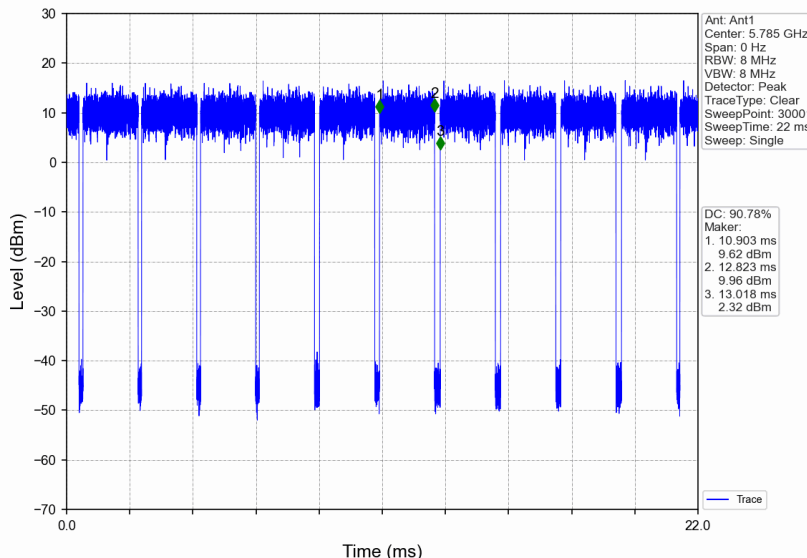


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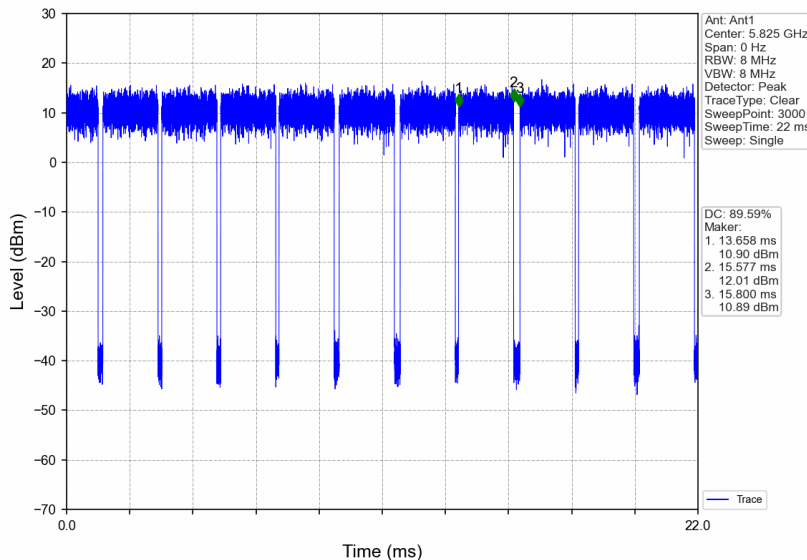
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802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV

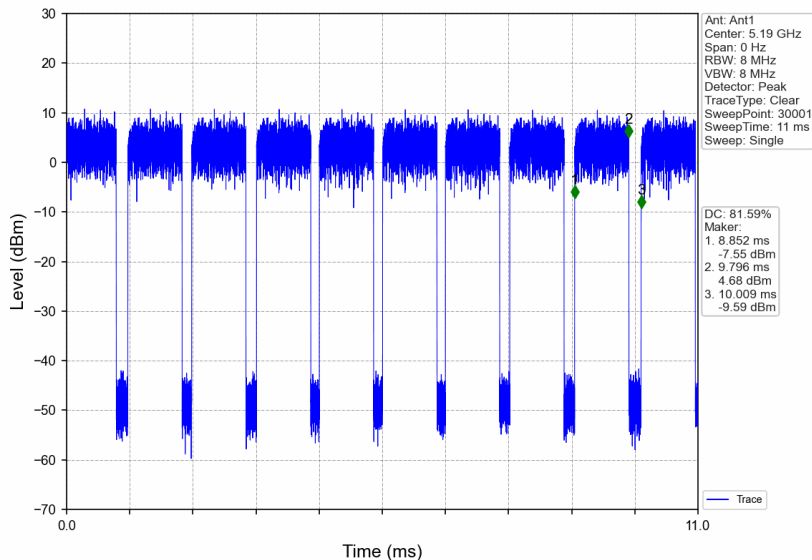


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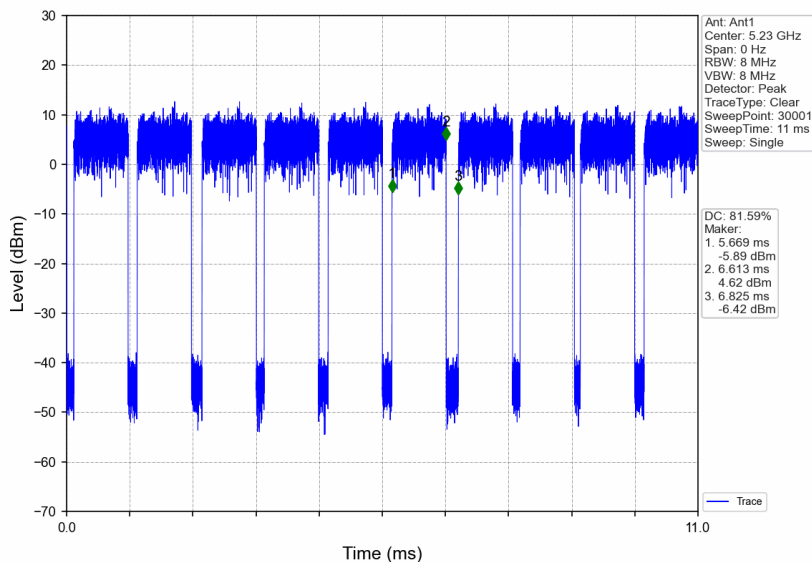
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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



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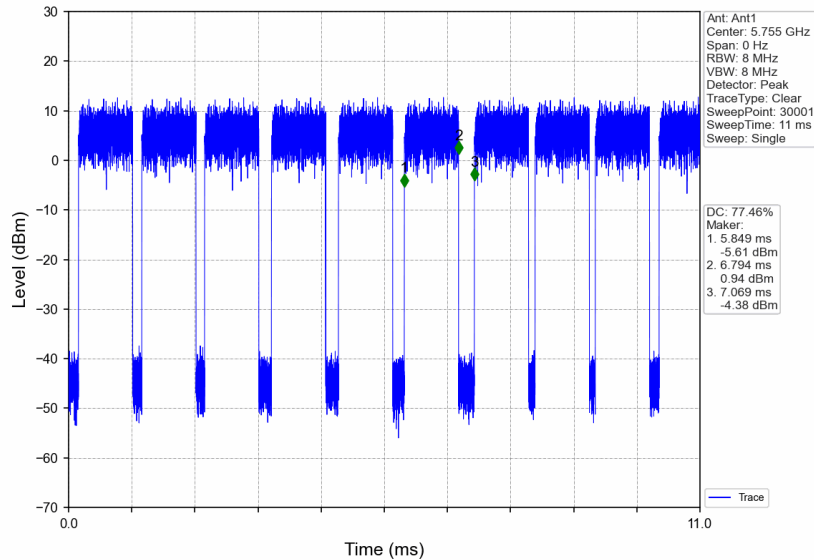
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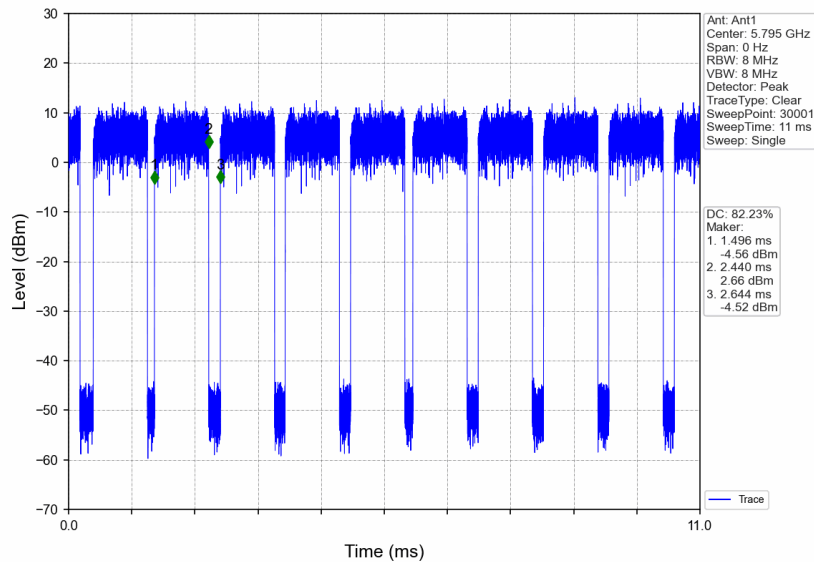
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802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



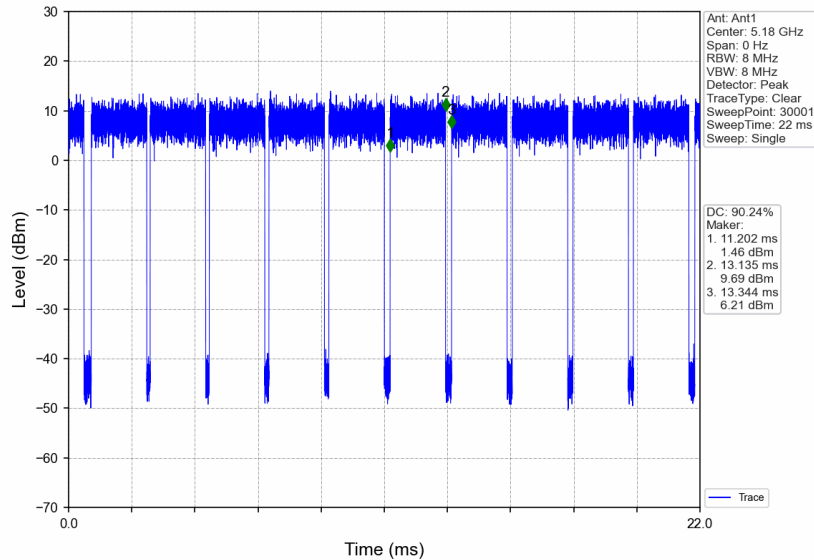
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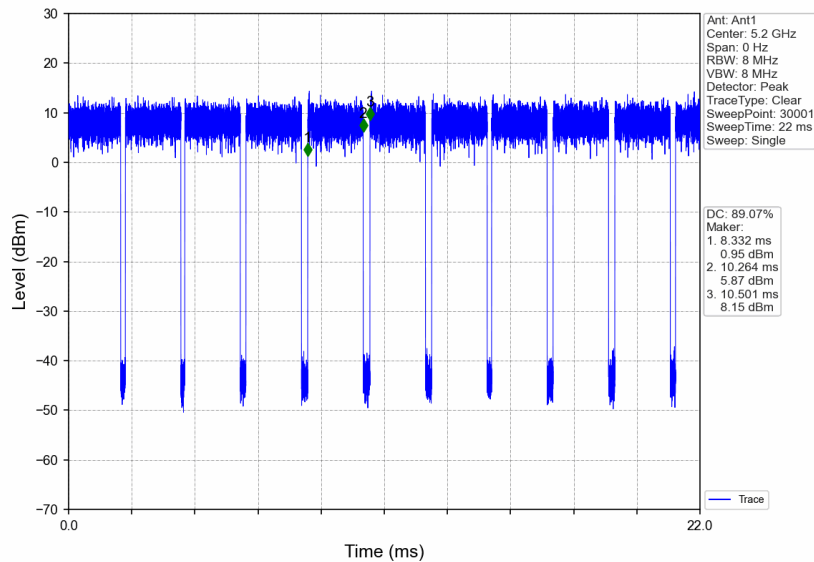
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802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV

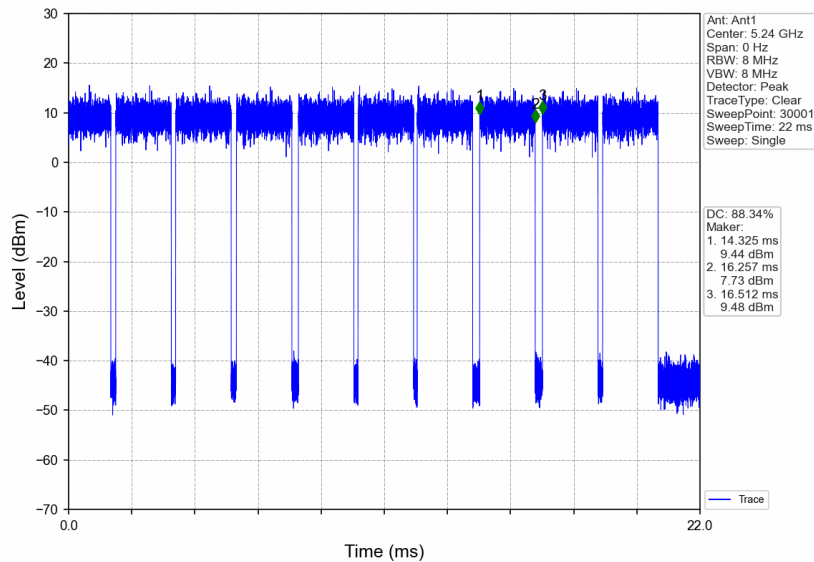


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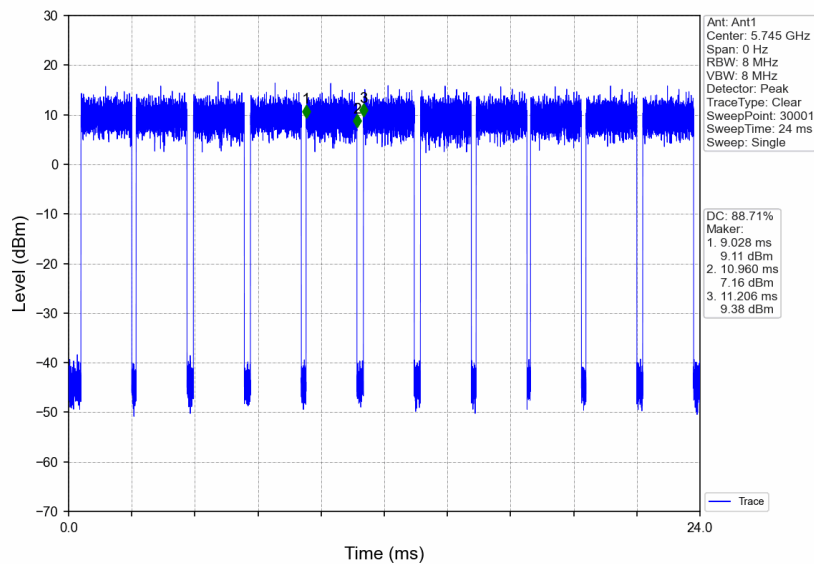
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802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



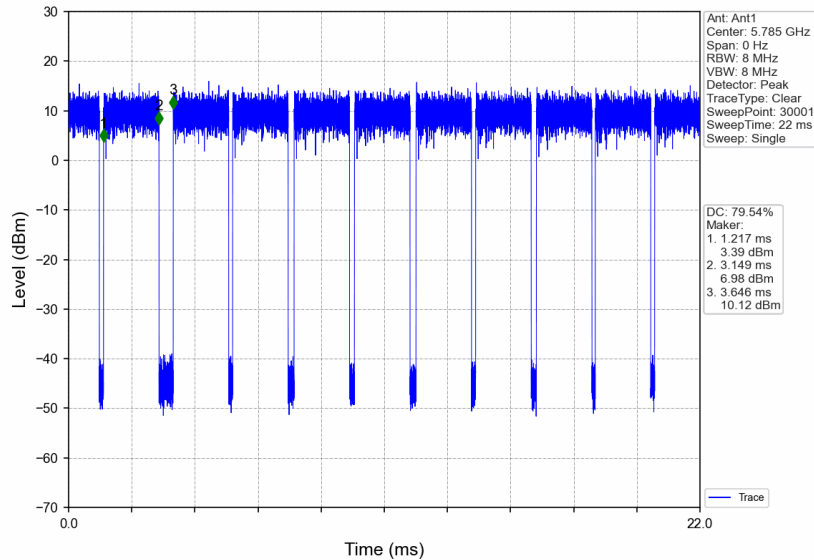
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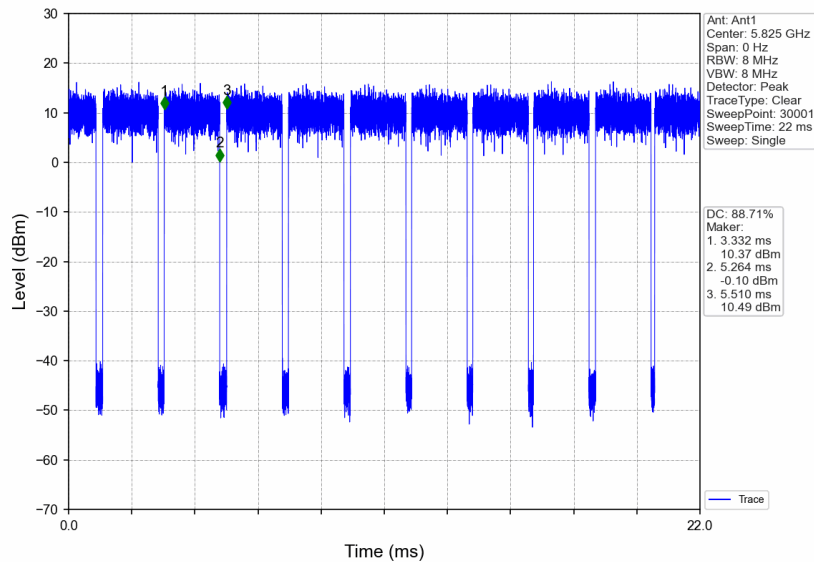
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802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV

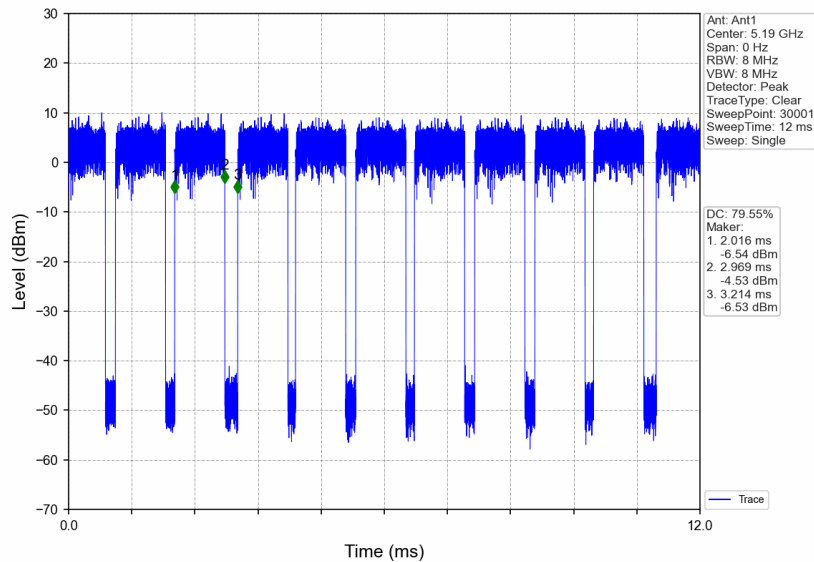


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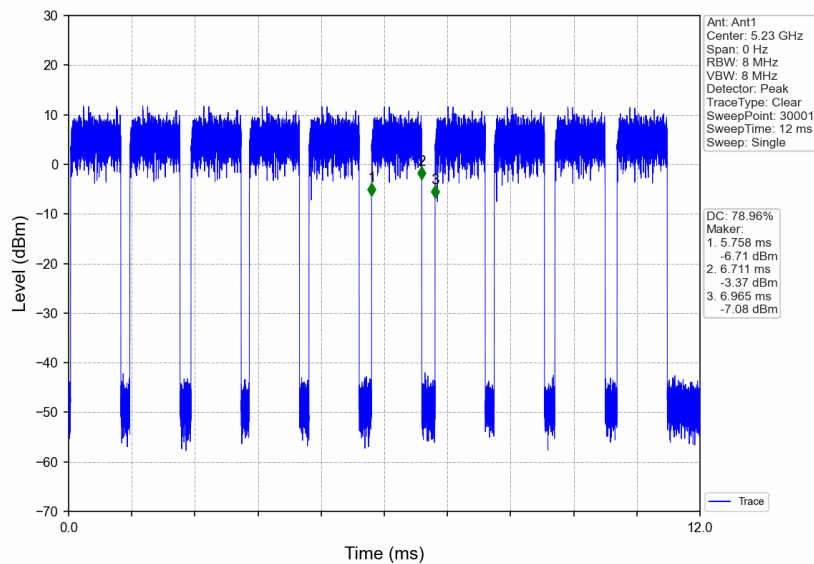
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802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



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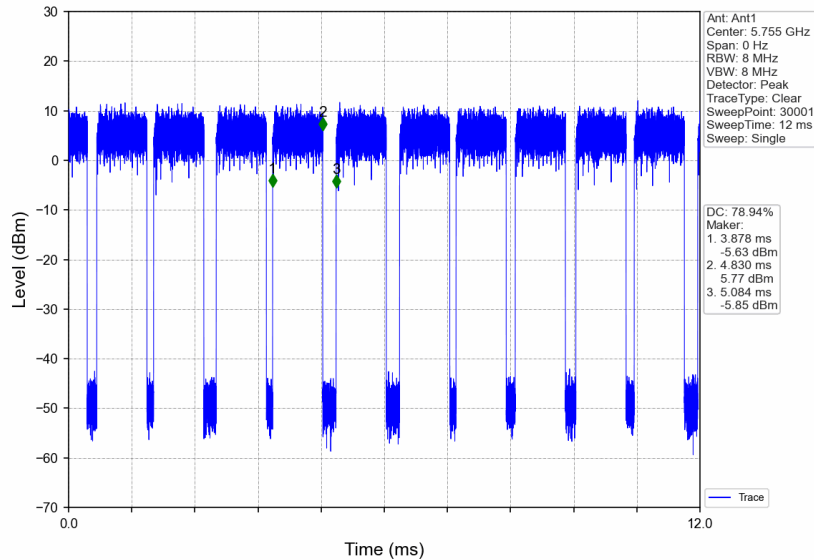
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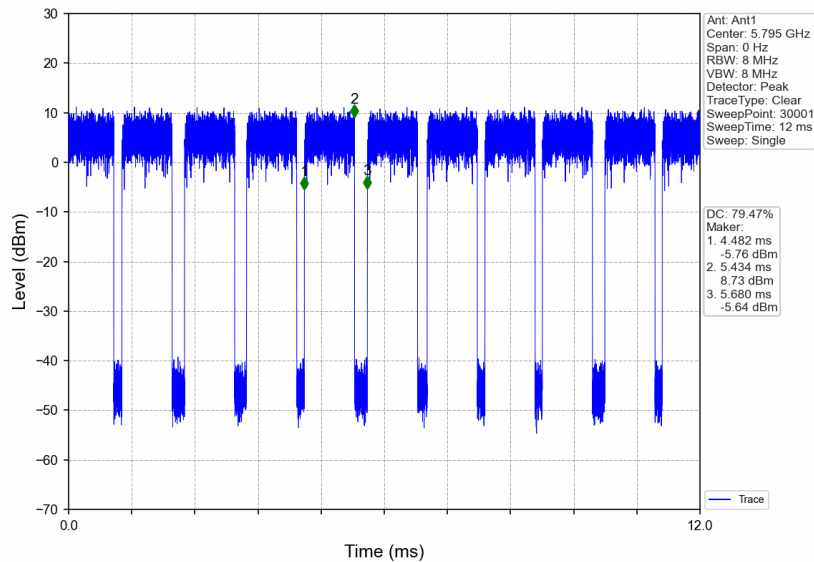
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



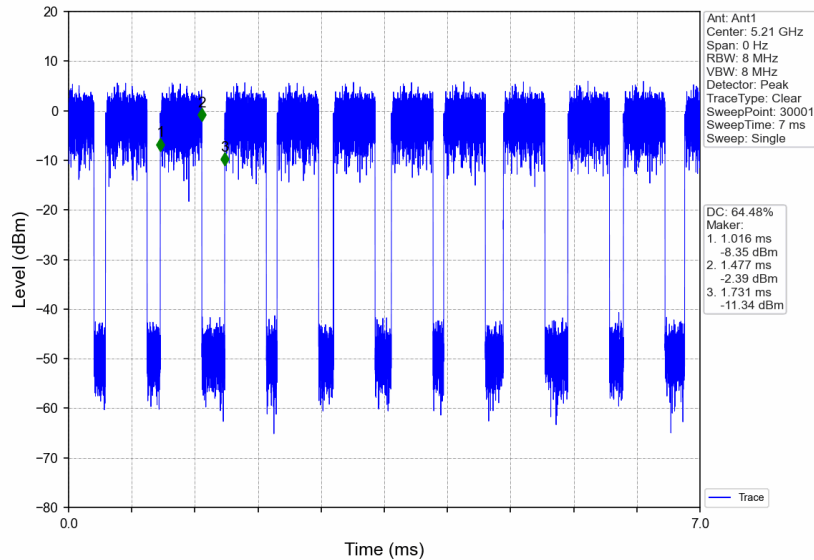
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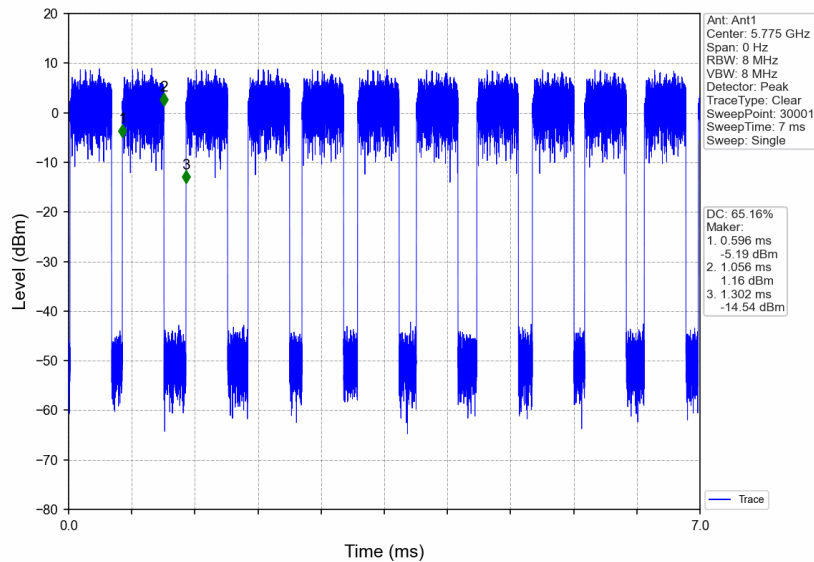
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



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	16.723	Pass
			2	16.717	Pass
		5200	1	16.662	Pass
			2	16.686	Pass
		5240	1	16.672	Pass
			2	16.650	Pass
		5745	1	16.633	Pass
			2	16.684	Pass
		5785	1	16.676	Pass
			2	16.645	Pass
		5825	1	16.653	Pass
			2	16.661	Pass
802.11n (HT20)	MIMO	5180	1	17.740	Pass
			2	17.785	Pass
		5200	1	17.727	Pass
			2	17.763	Pass
		5240	1	17.827	Pass
			2	17.761	Pass
		5745	1	17.777	Pass
			2	17.732	Pass
		5785	1	17.712	Pass
			2	17.740	Pass
		5825	1	17.767	Pass
			2	17.780	Pass
802.11n (HT40)	MIMO	5190	1	36.276	Pass
			2	36.327	Pass
		5230	1	36.410	Pass
			2	36.471	Pass
		5755	1	36.485	Pass
			2	36.433	Pass
		5795	1	36.467	Pass
			2	36.559	Pass
802.11ac (VHT20)	MIMO	5180	1	17.724	Pass
			2	17.736	Pass
		5200	1	17.775	Pass
			2	17.736	Pass
		5240	1	17.758	Pass
			2	17.776	Pass
		5745	1	17.752	Pass
			2	17.765	Pass



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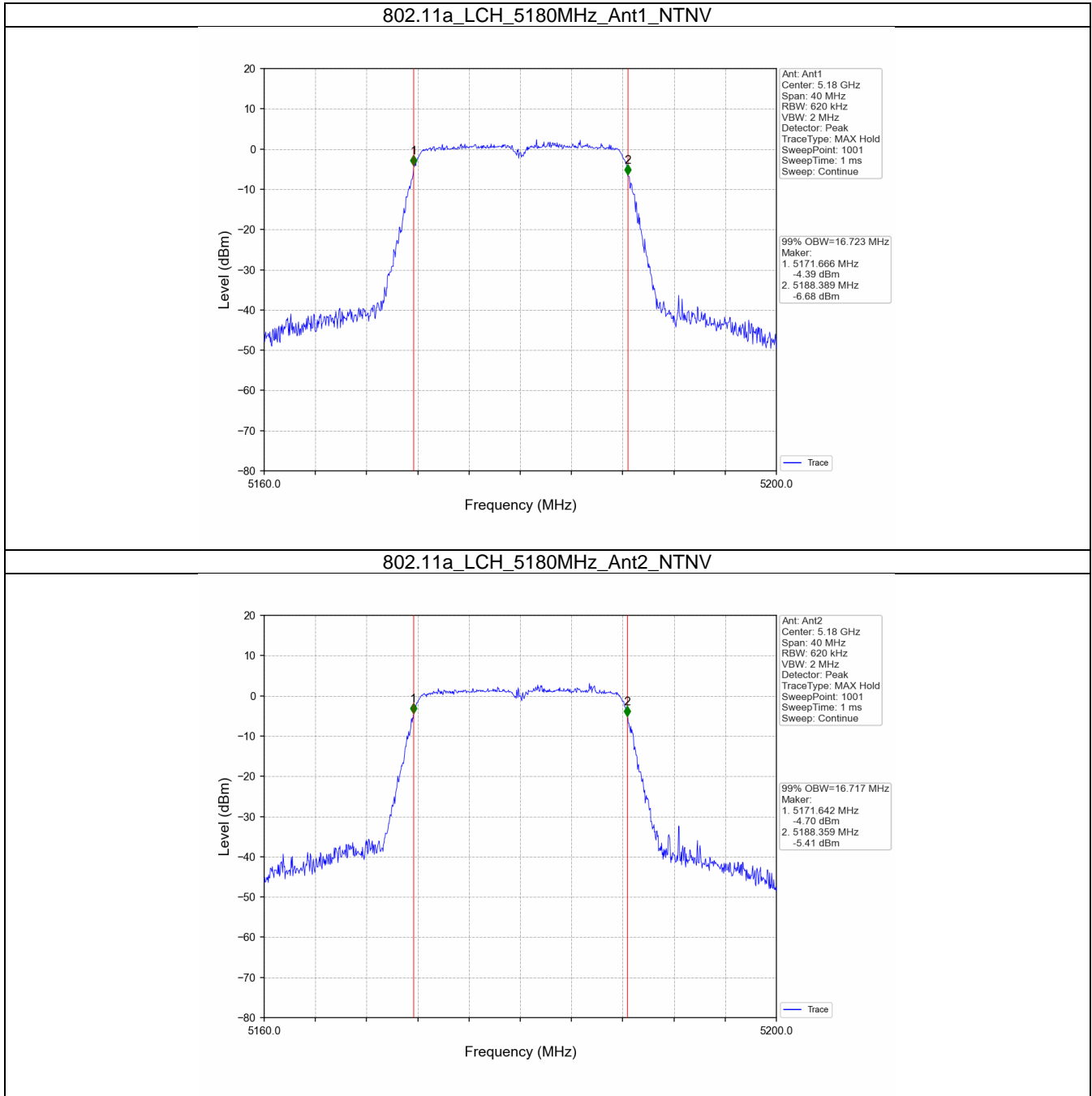
		5785	1	17.735	Pass
			2	17.767	Pass
		5825	1	17.765	Pass
			2	17.781	Pass
802.11ac (VHT40)	MIMO	5190	1	36.358	Pass
			2	36.264	Pass
		5230	1	36.327	Pass
			2	36.380	Pass
		5755	1	36.436	Pass
			2	36.291	Pass
		5795	1	36.465	Pass
			2	36.385	Pass
802.11ac (VHT80)	MIMO	5210	1	74.485	Pass
			2	74.817	Pass
		5775	1	74.923	Pass
			2	75.154	Pass



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2.1.2 Test Graph



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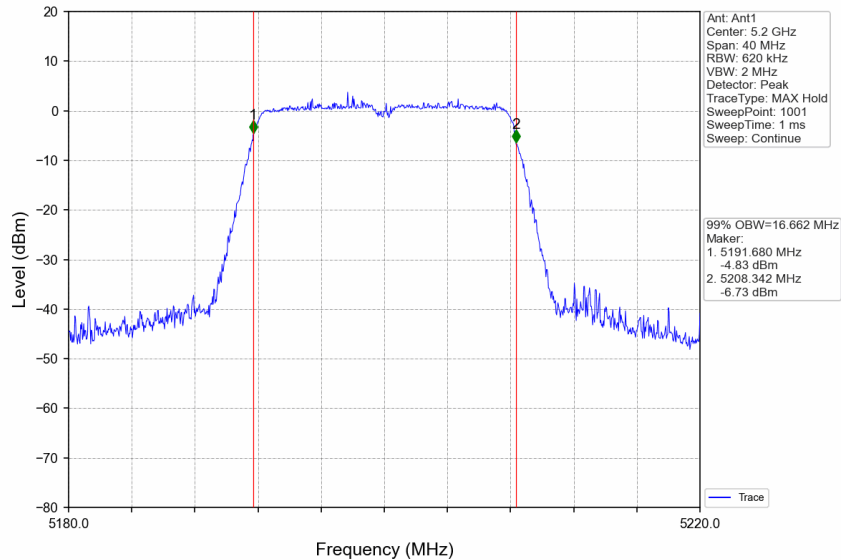
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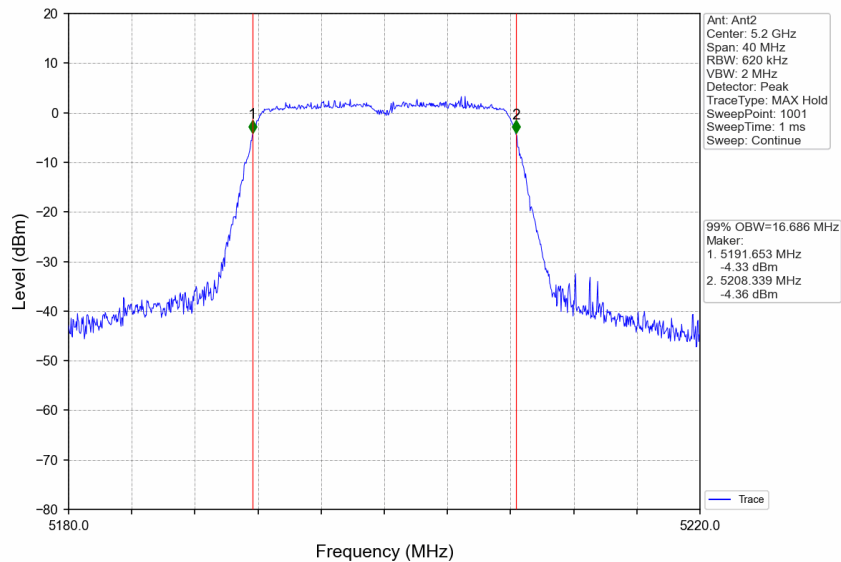
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802.11a\_MCH\_5200MHz\_Ant1\_NTNV



802.11a\_MCH\_5200MHz\_Ant2\_NTNV

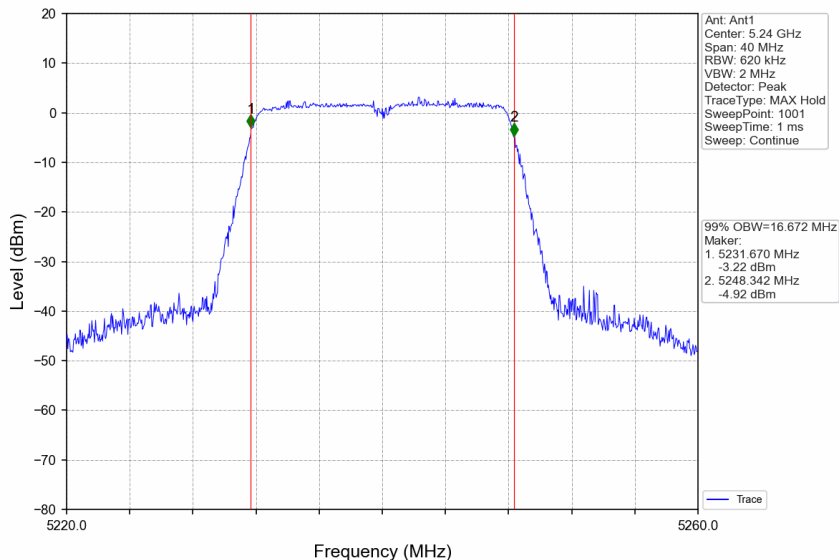


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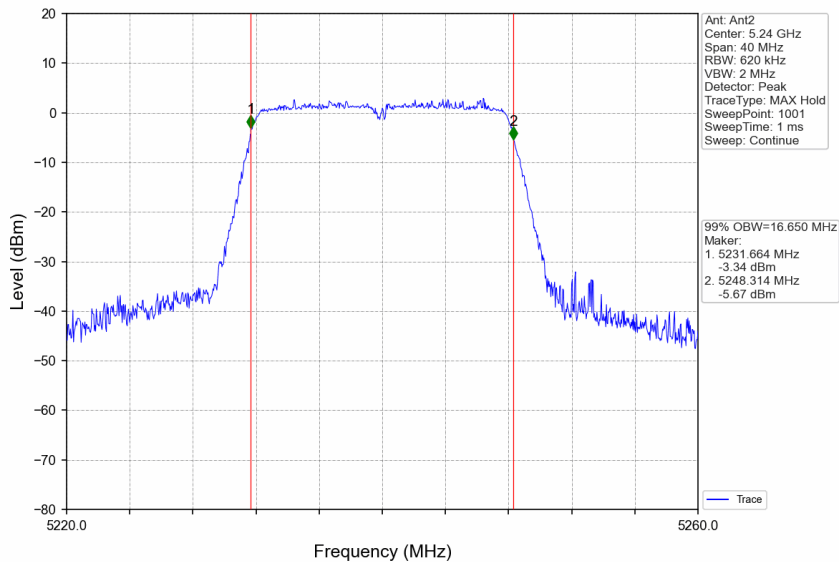
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802.11a\_HCH\_5240MHz\_Ant2\_NTNV



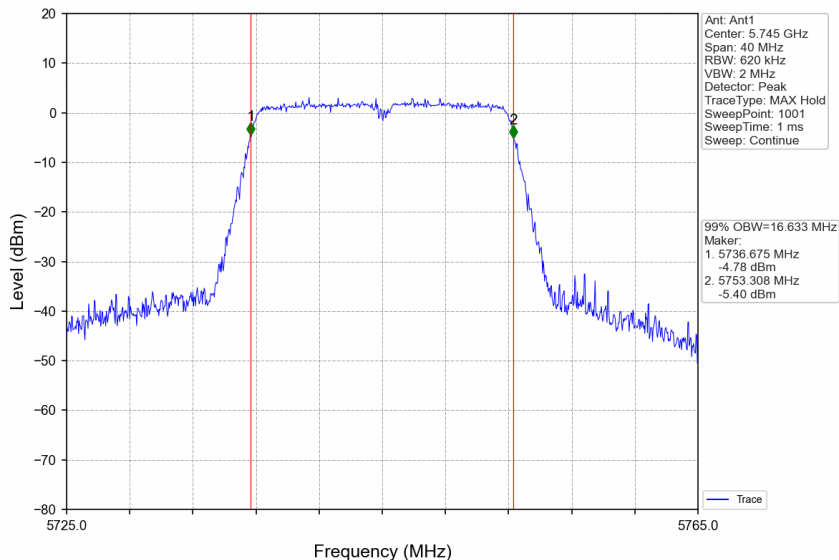
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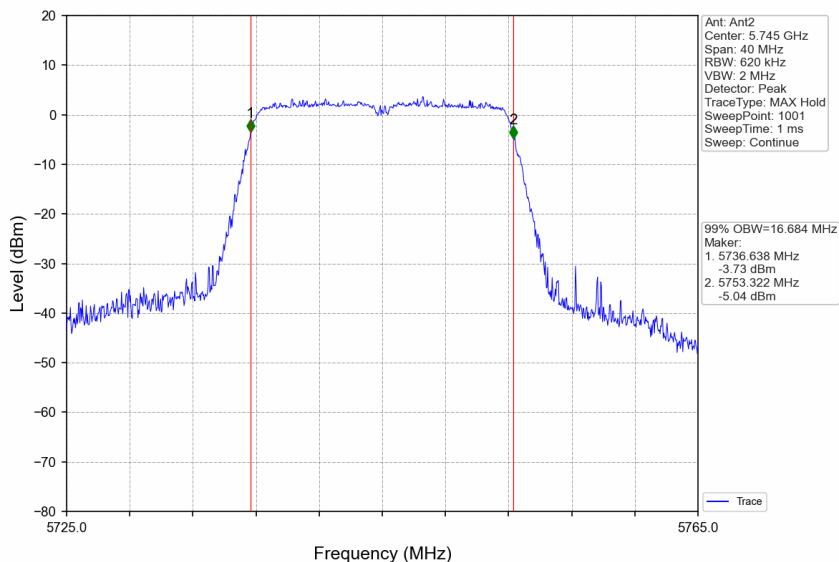
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802.11a\_LCH\_5745MHz\_Ant1\_NTNV



802.11a\_LCH\_5745MHz\_Ant2\_NTNV



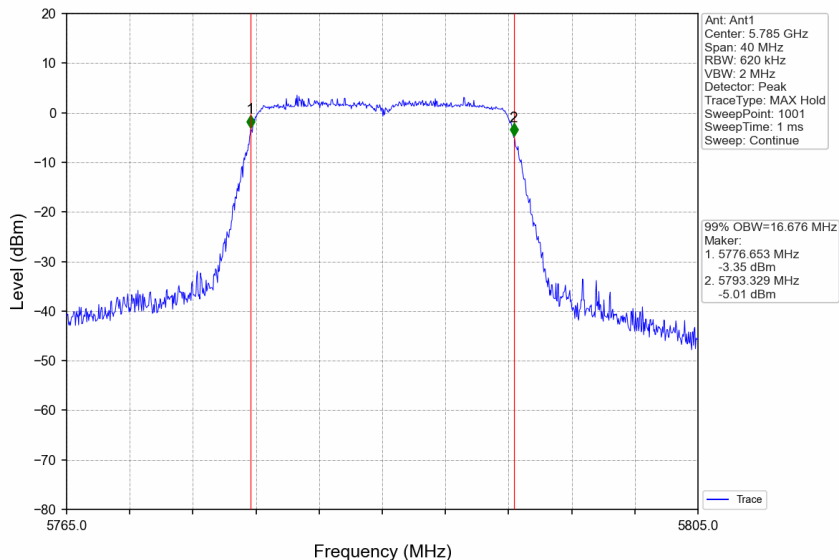
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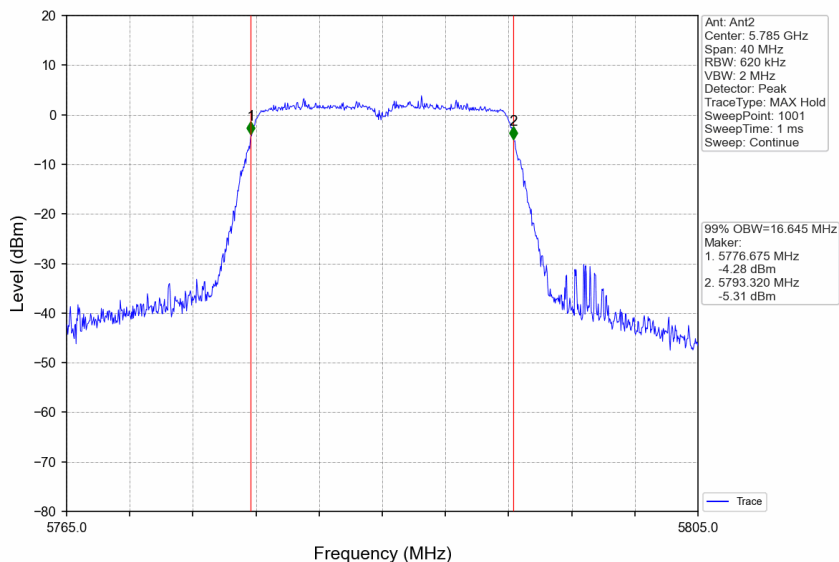
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802.11a\_MCH\_5785MHz\_Ant2\_NTNV



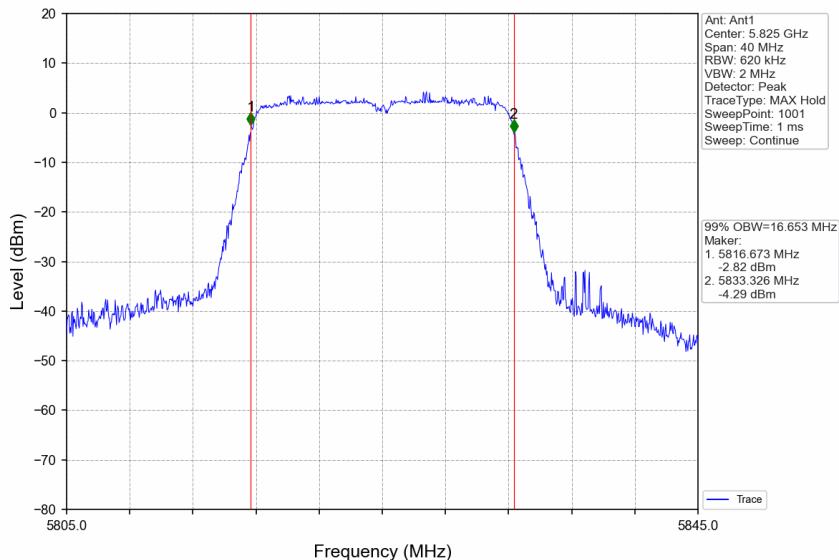
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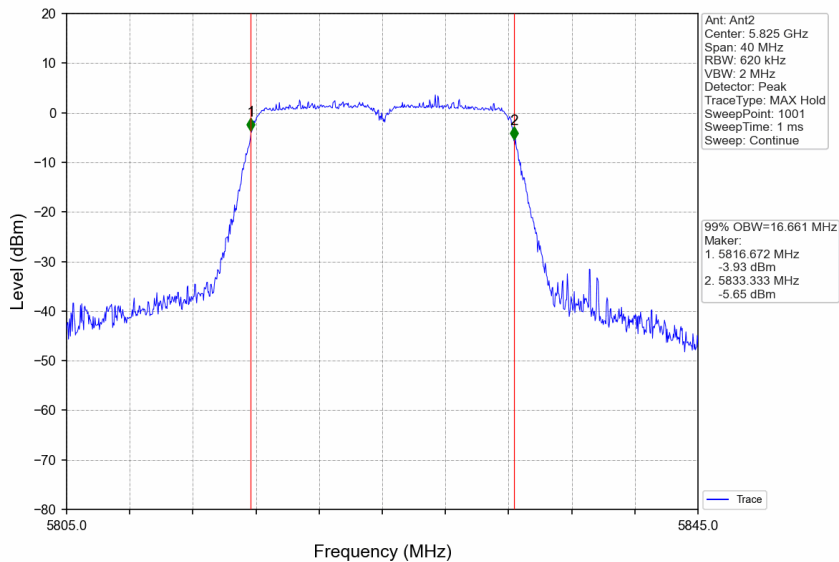
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802.11a\_HCH\_5825MHz\_Ant1\_NTNV



802.11a\_HCH\_5825MHz\_Ant2\_NTNV



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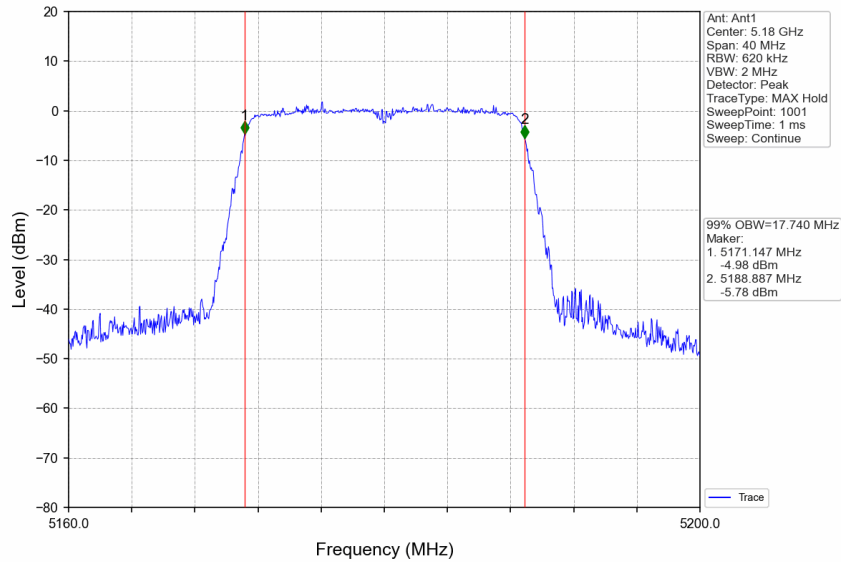
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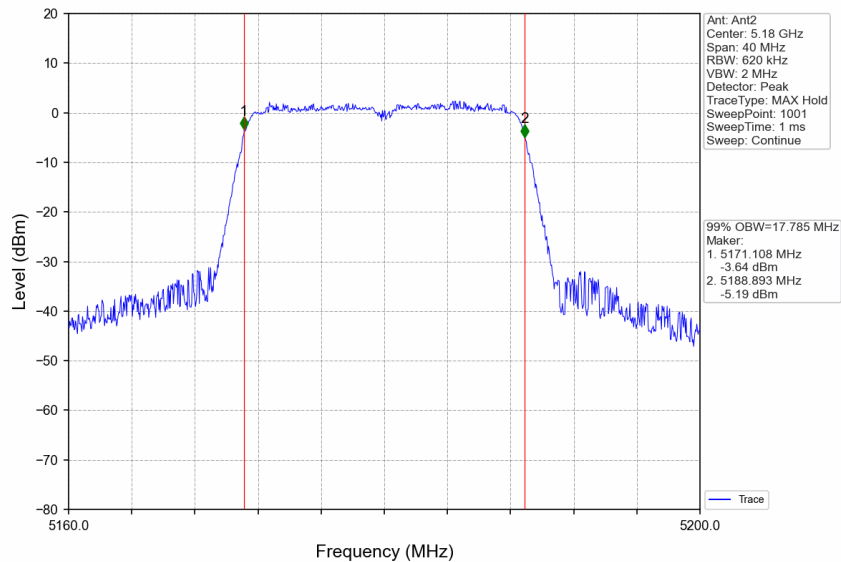
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



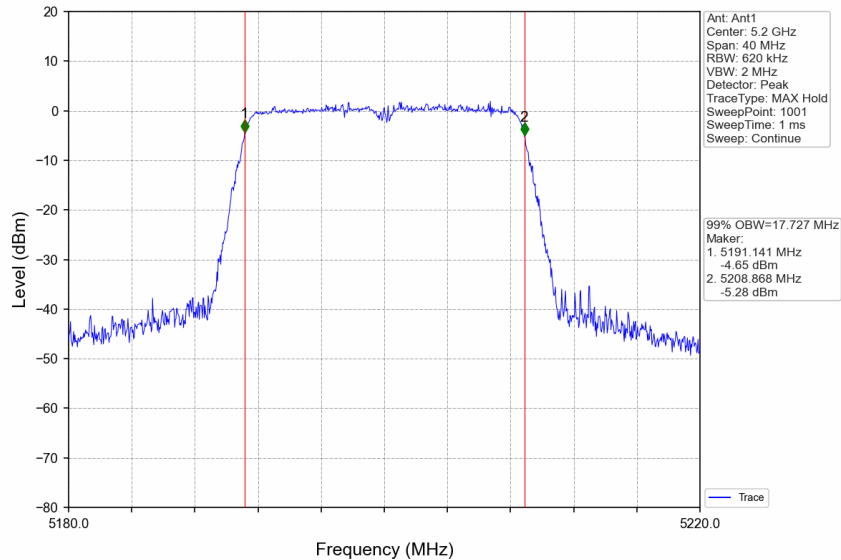
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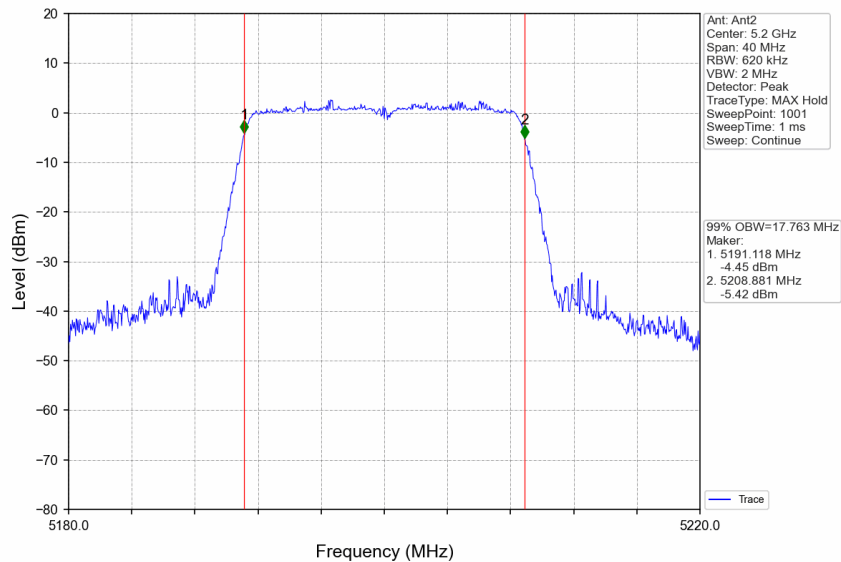
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802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV

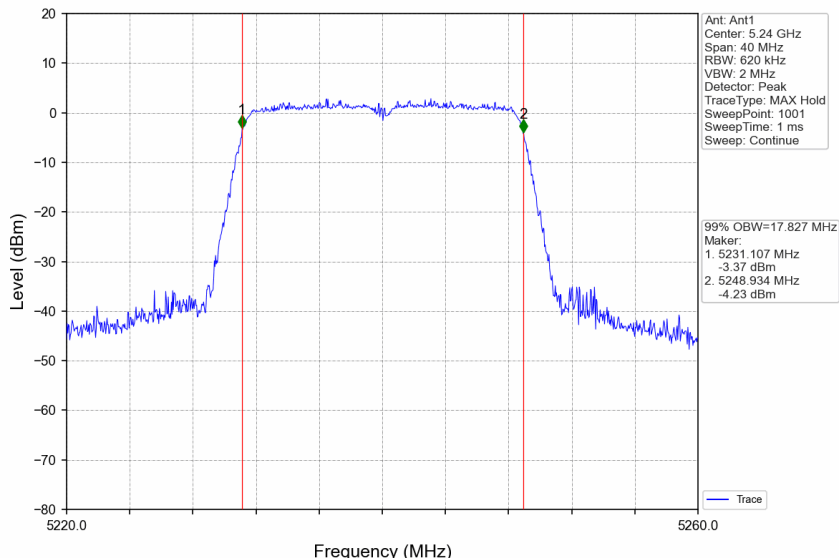


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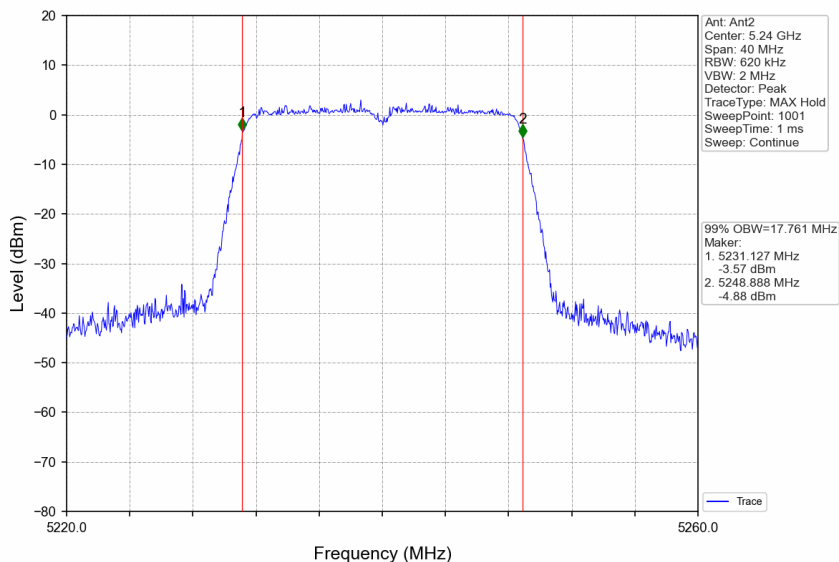
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802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV



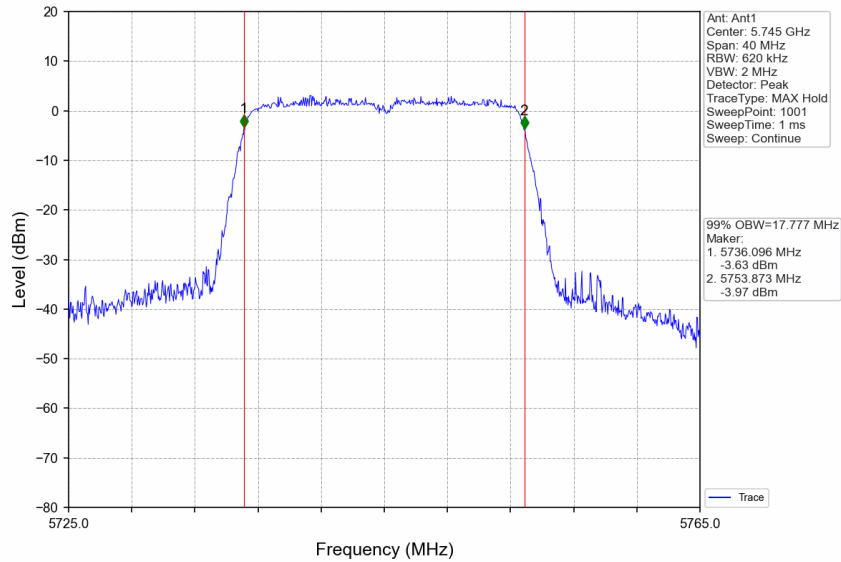
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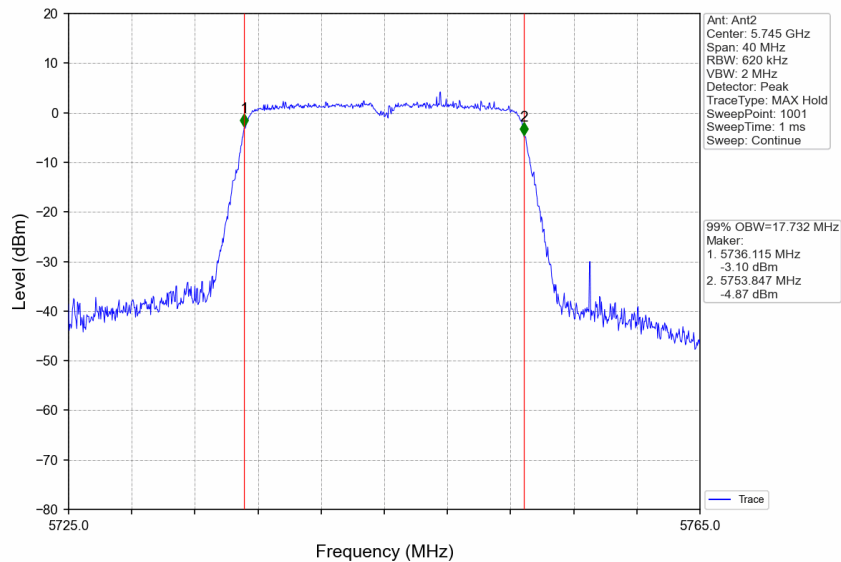
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802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5745MHz\_Ant2\_NTNV



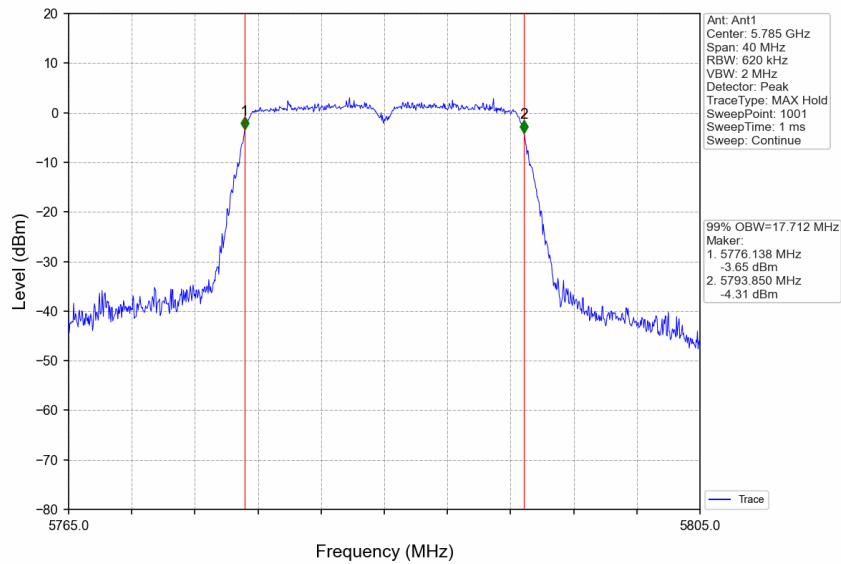
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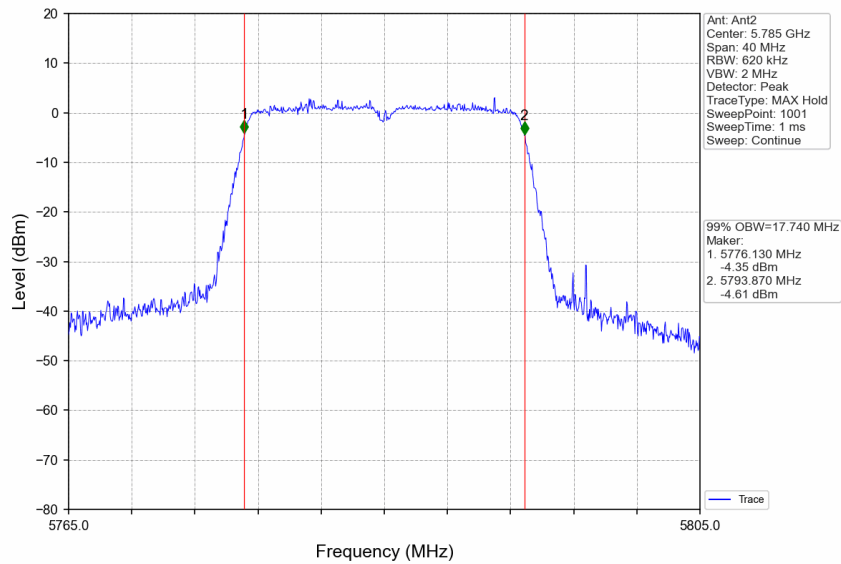
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802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5785MHz\_Ant2\_NTNV



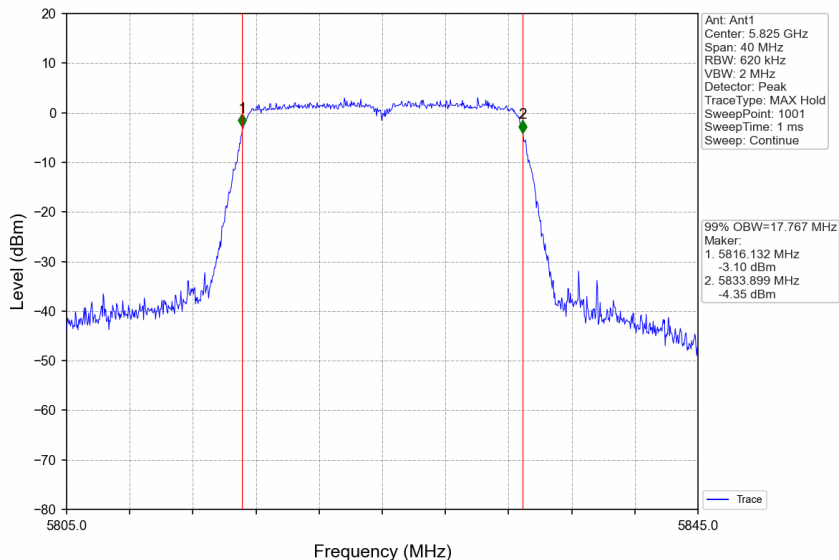
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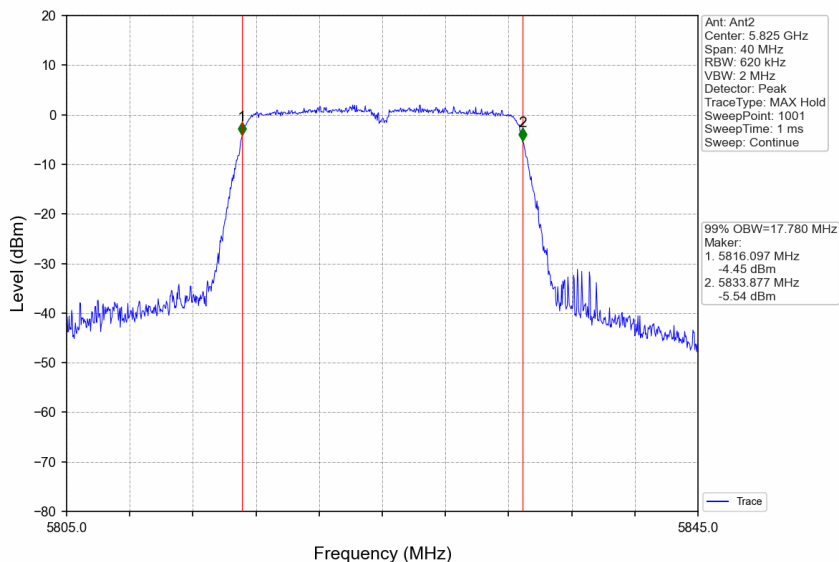
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802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5825MHz\_Ant2\_NTNV



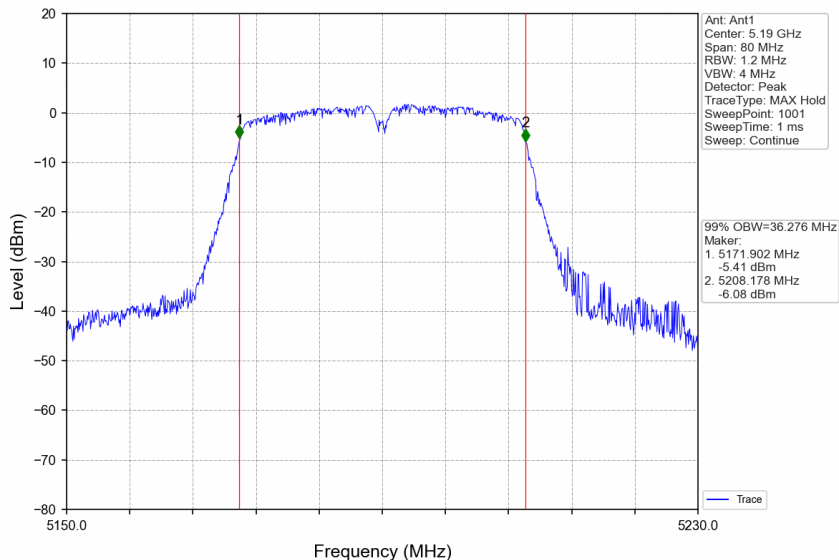
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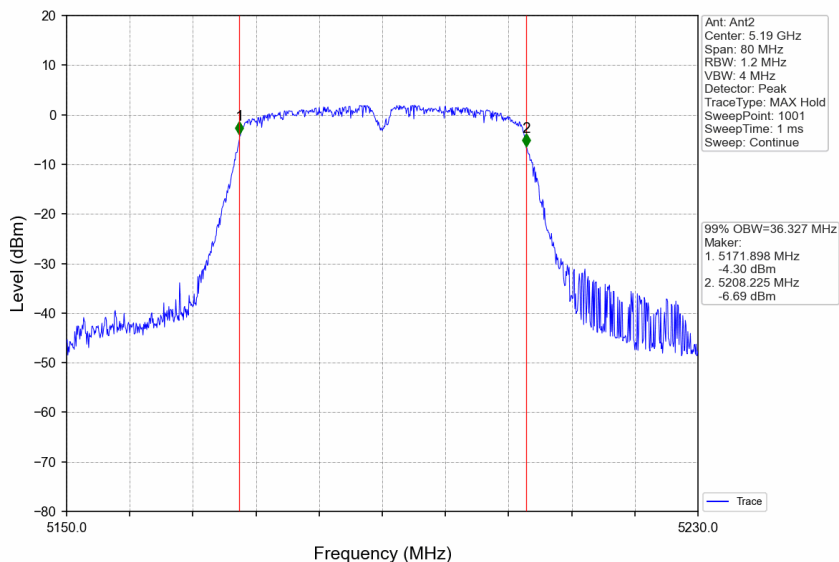
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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV



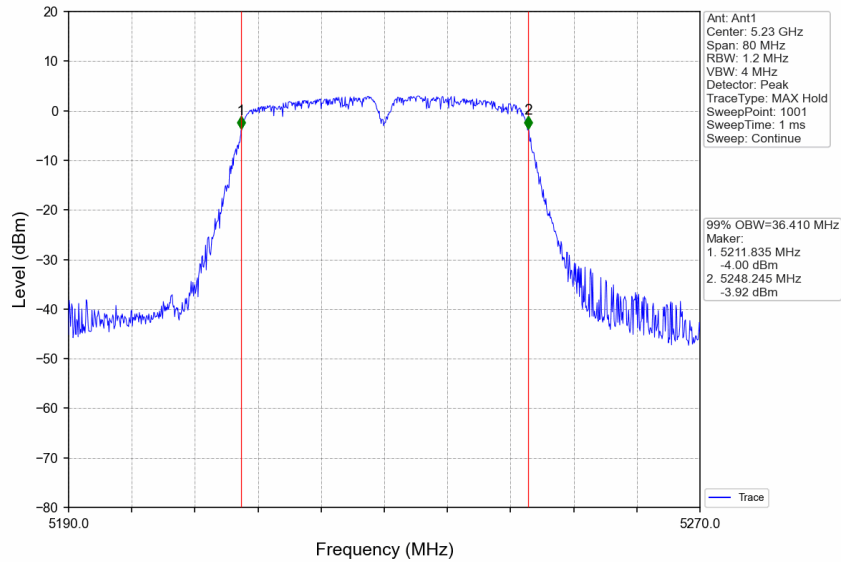
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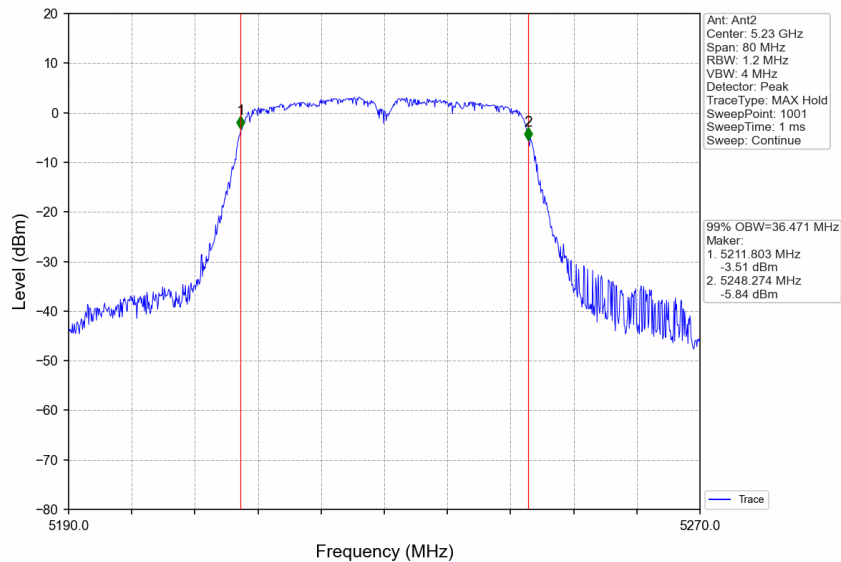
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802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



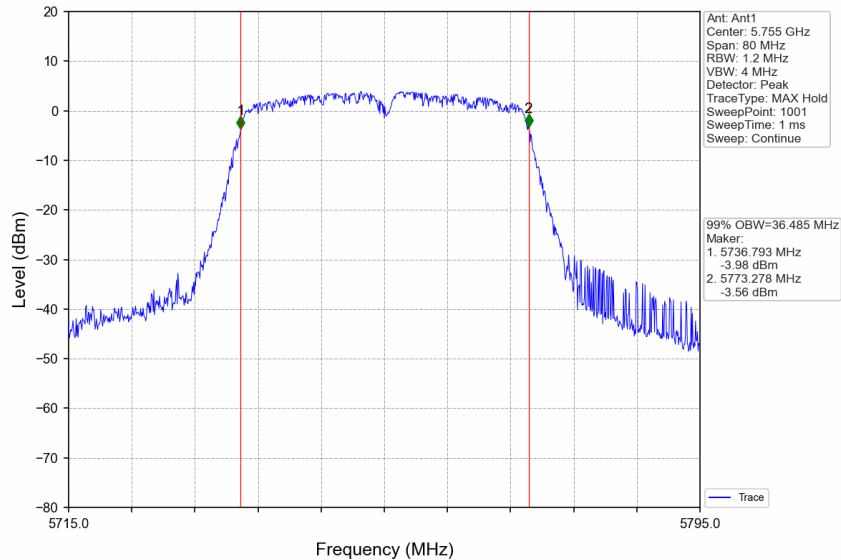
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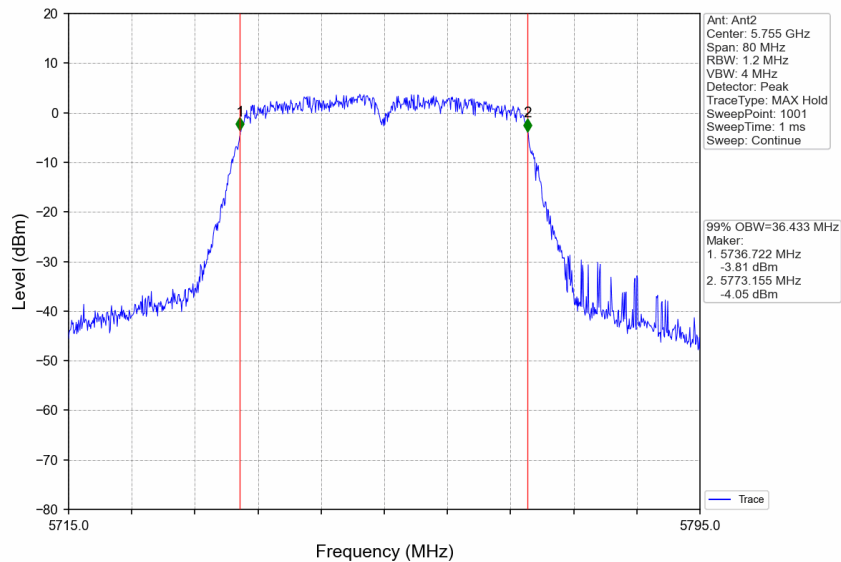
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802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5755MHz\_Ant2\_NTNV



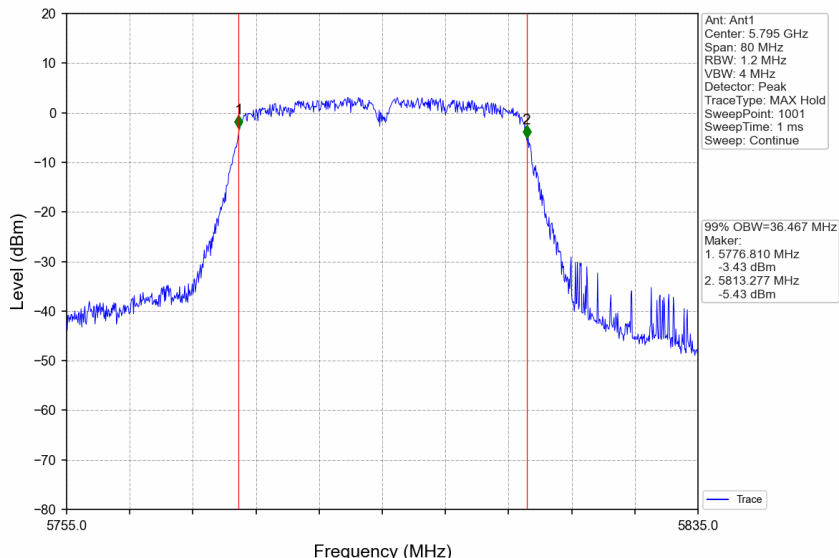
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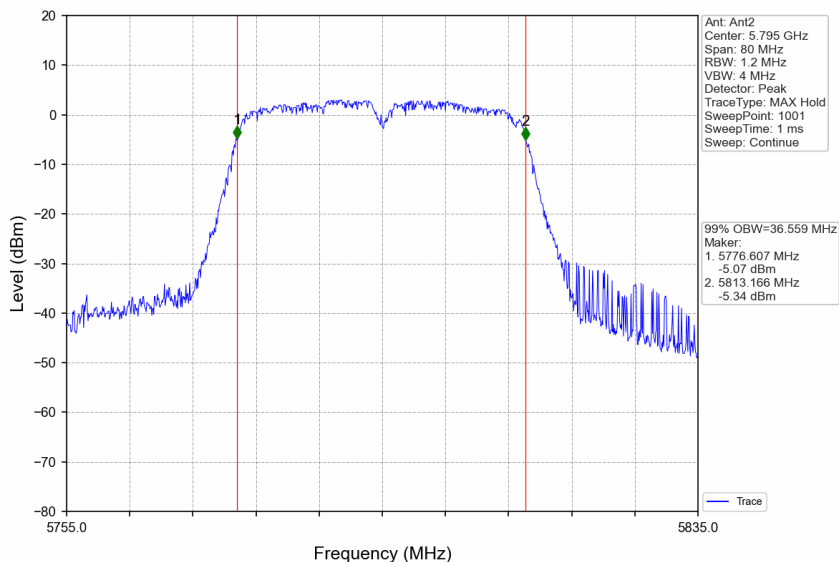
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802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5795MHz\_Ant2\_NTNV



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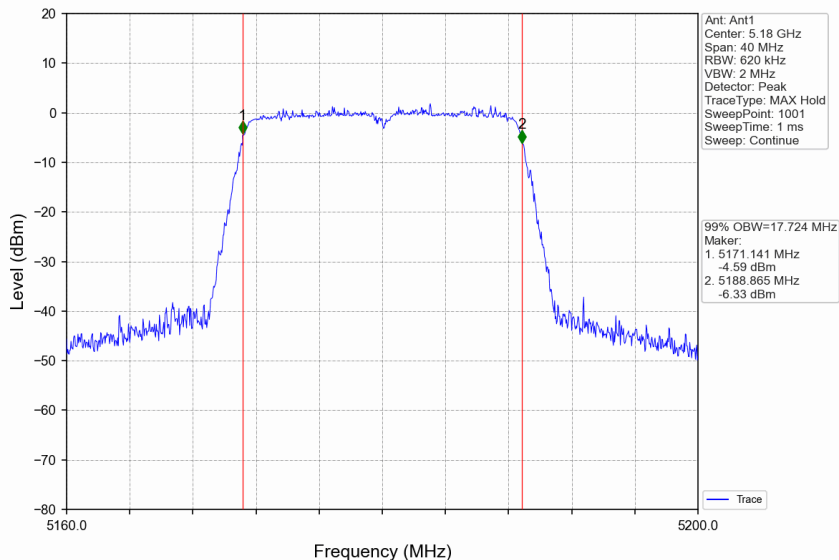
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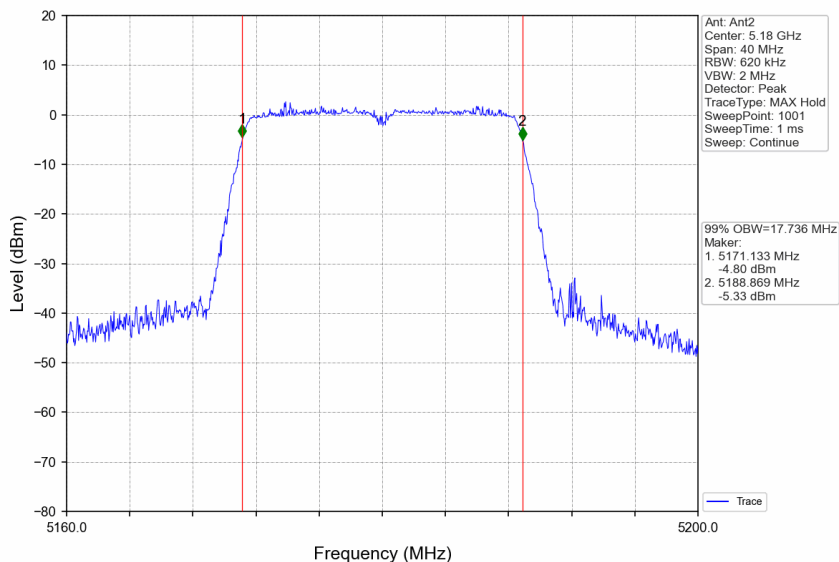
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802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



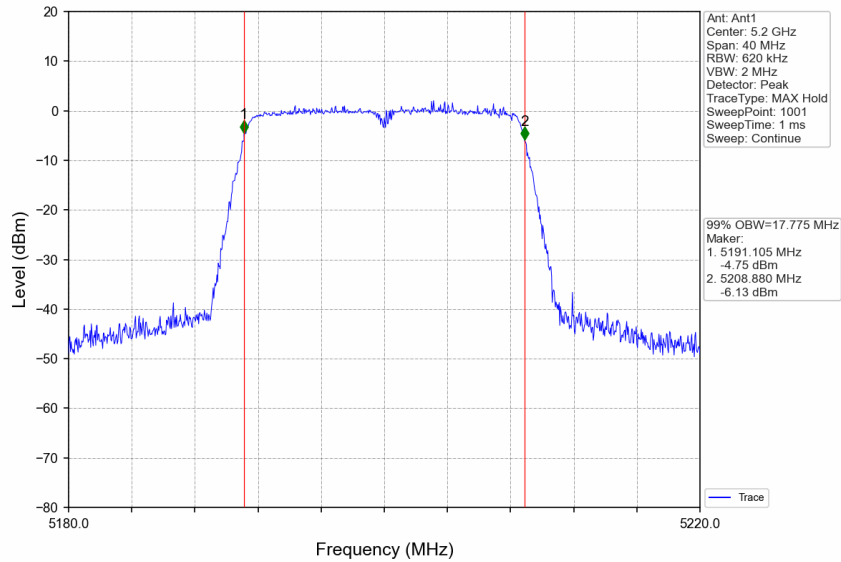
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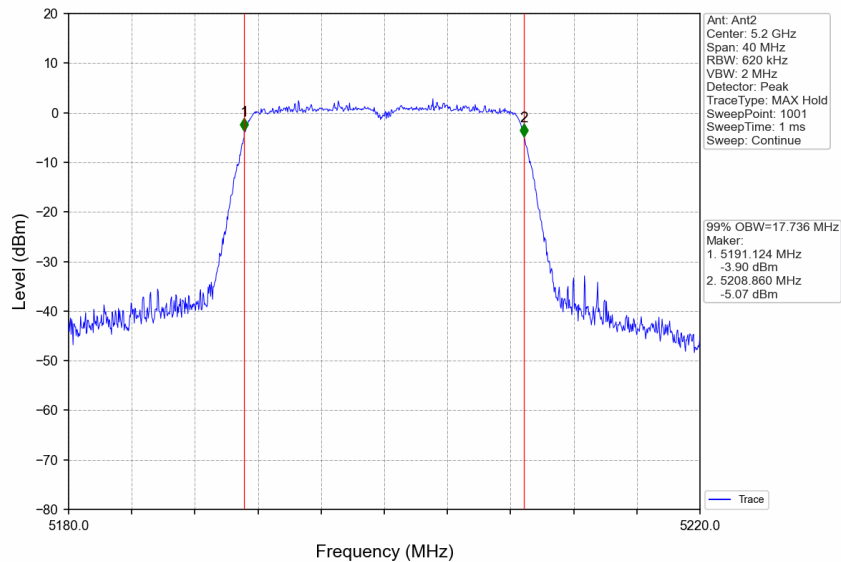
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802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



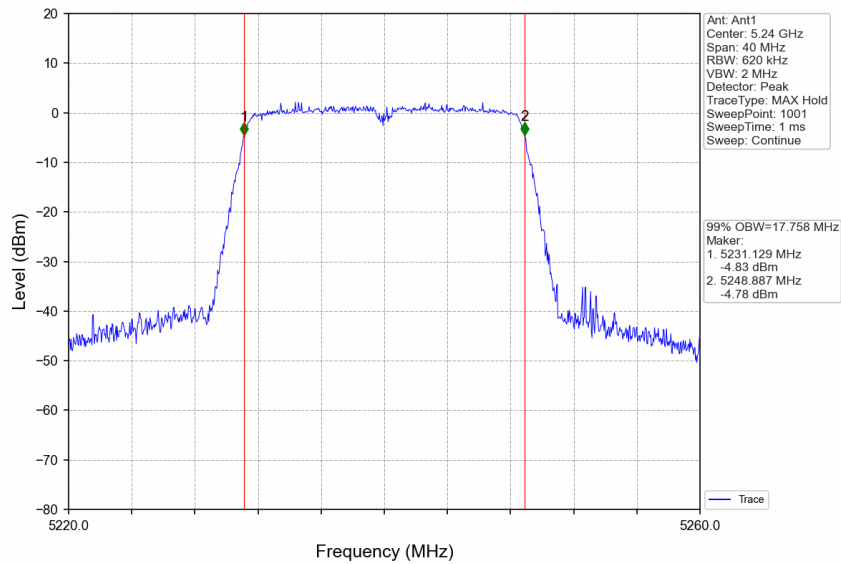
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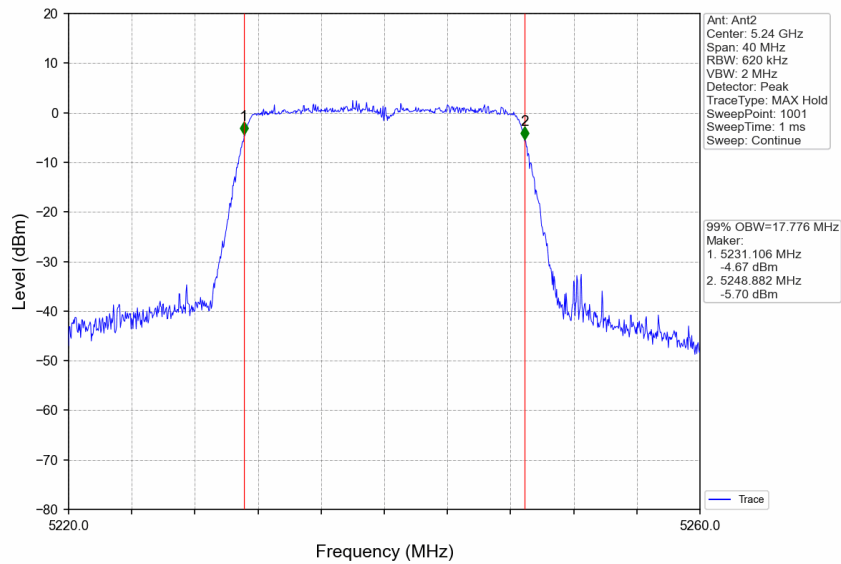
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802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



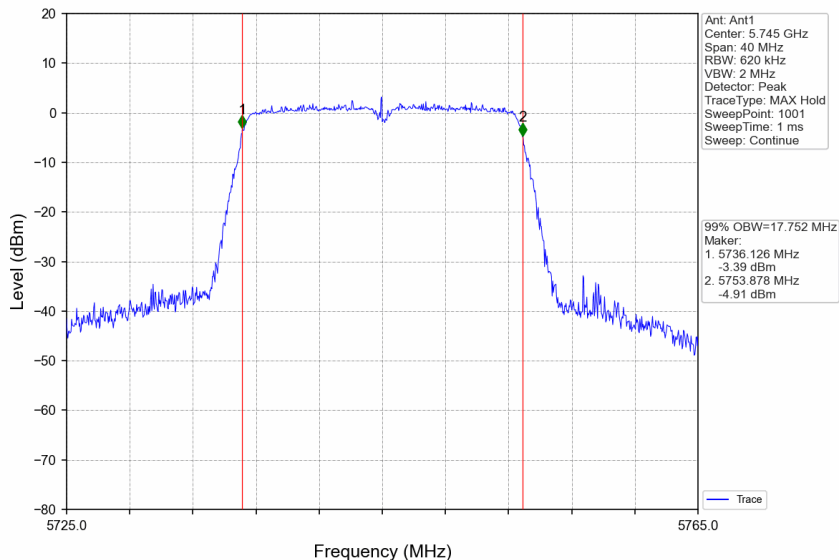
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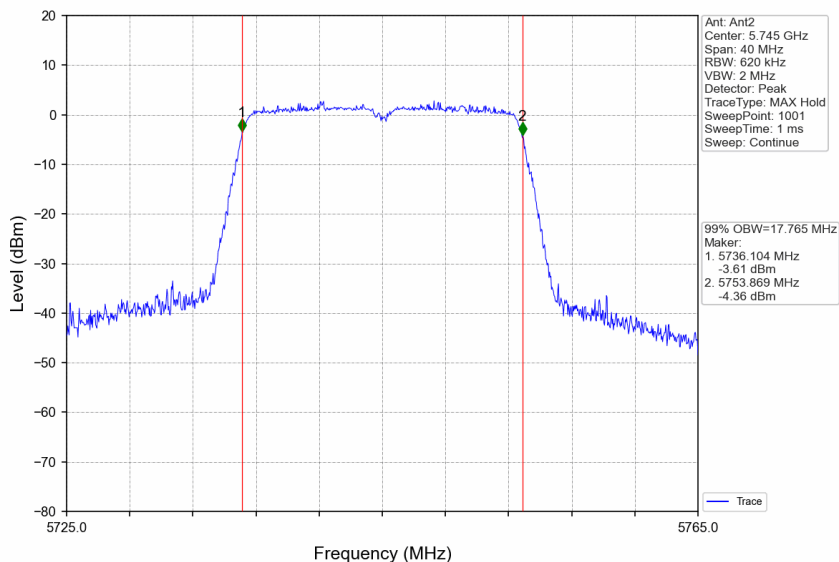
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802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5745MHz\_Ant2\_NTNV



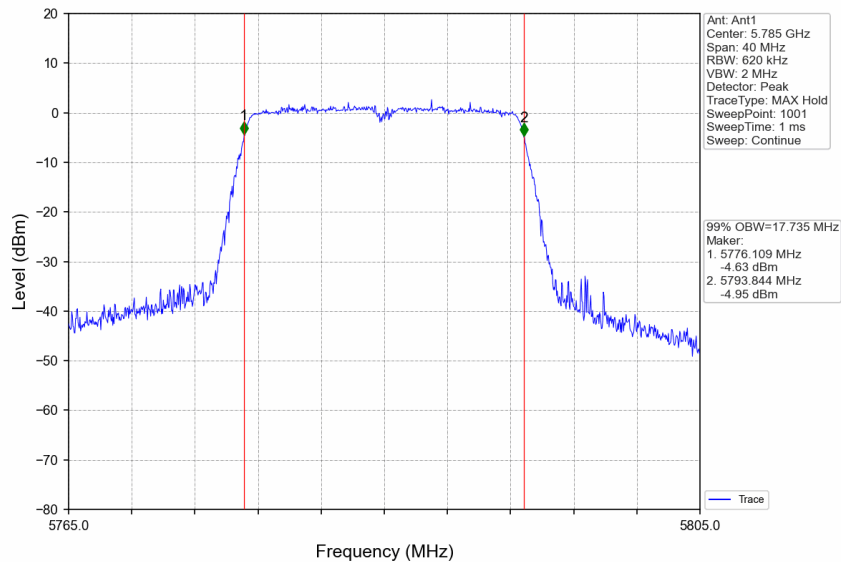
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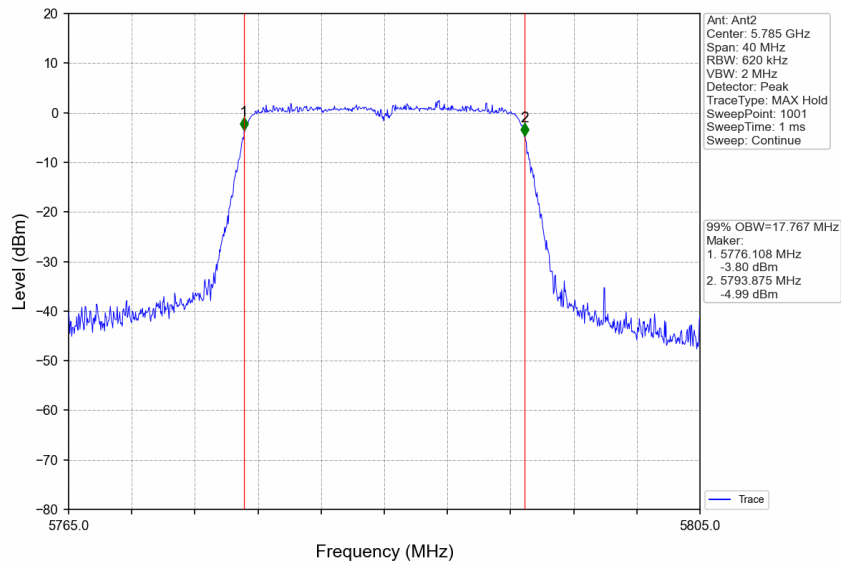
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802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5785MHz\_Ant2\_NTNV



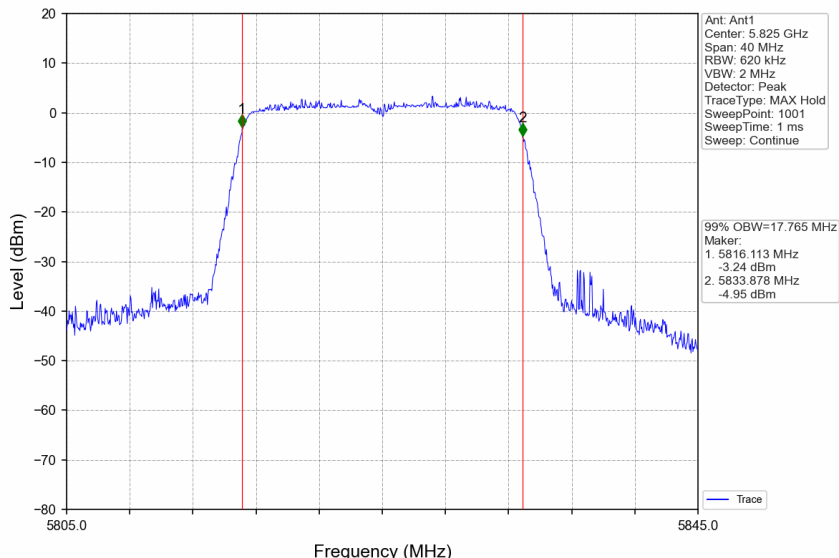
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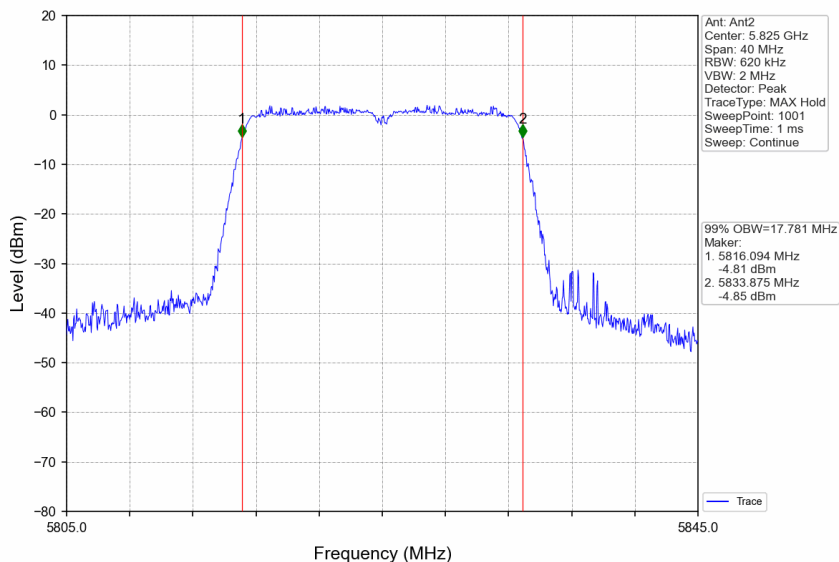
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



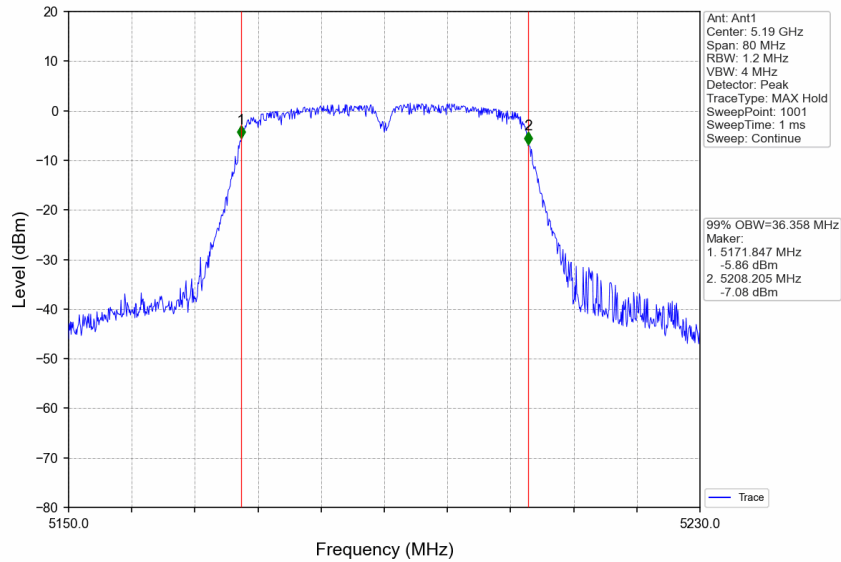
802.11ac(VHT20)\_HCH\_5825MHz\_Ant2\_NTNV



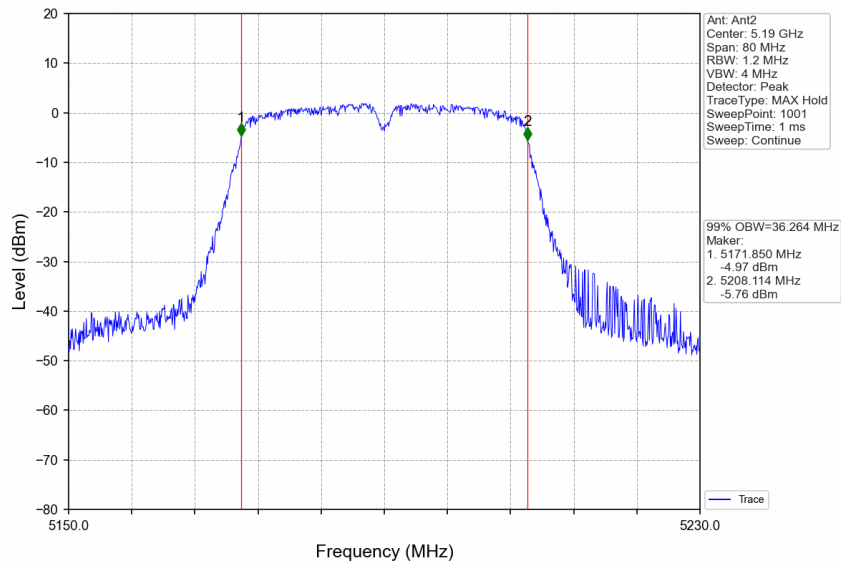
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802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV

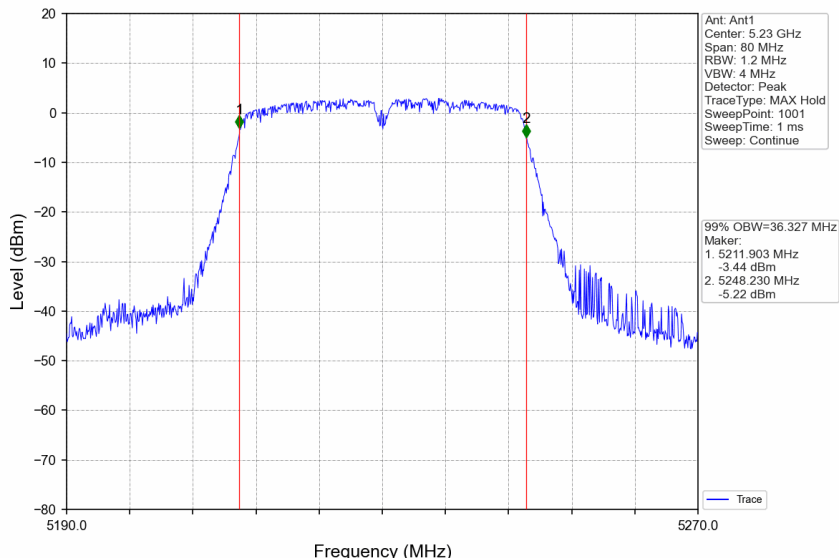


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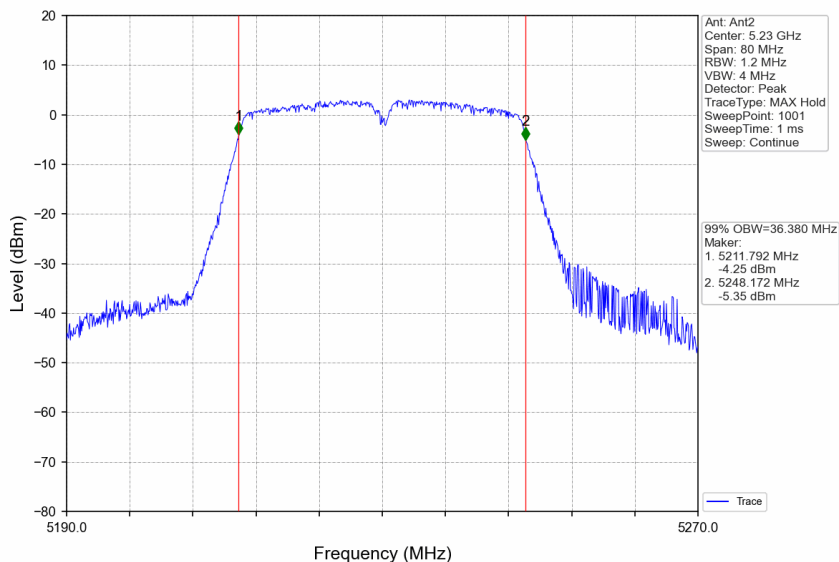
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



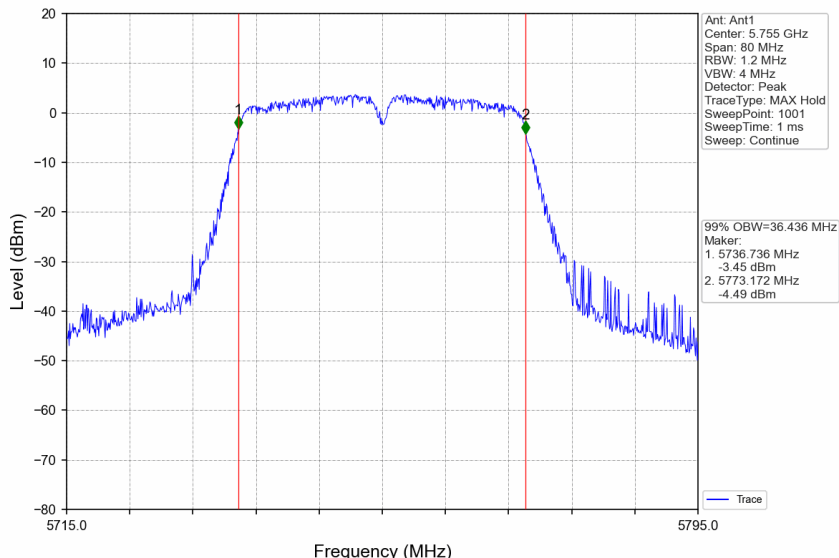
802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV



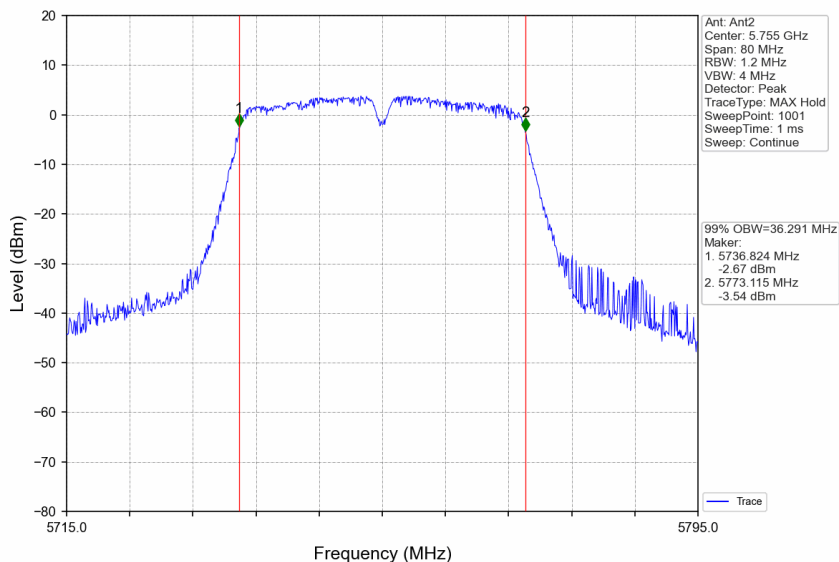
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5755MHz\_Ant2\_NTNV

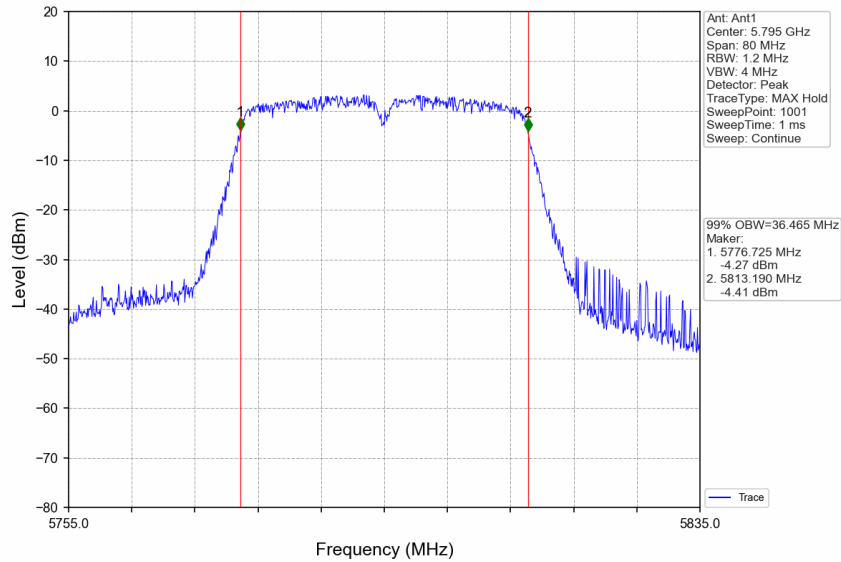


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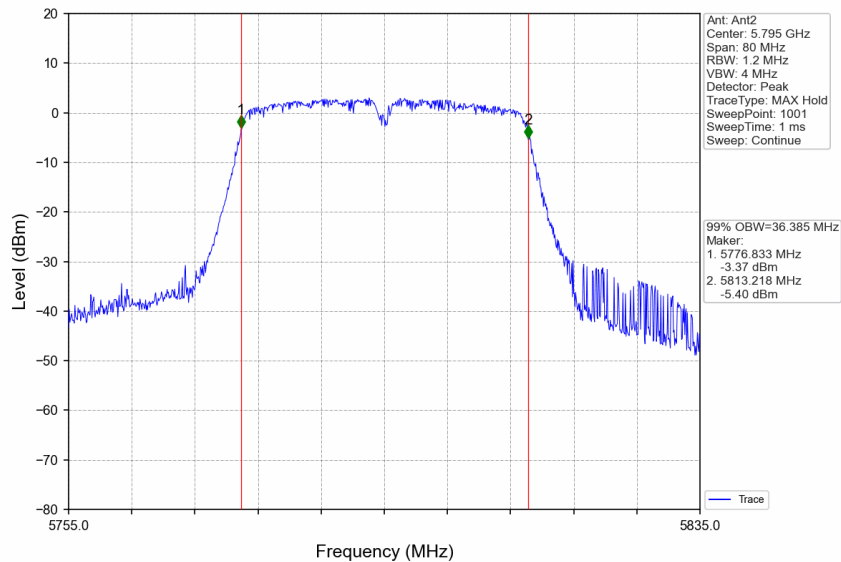
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_Ant2\_NTNV

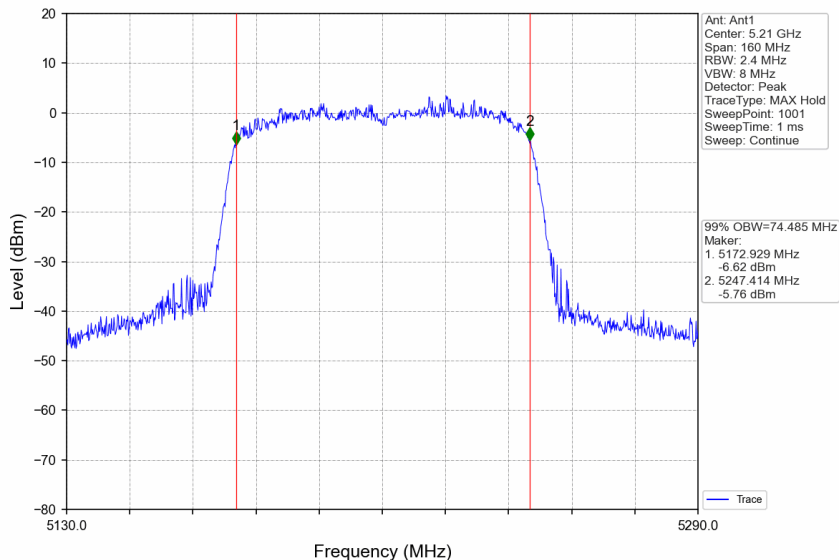


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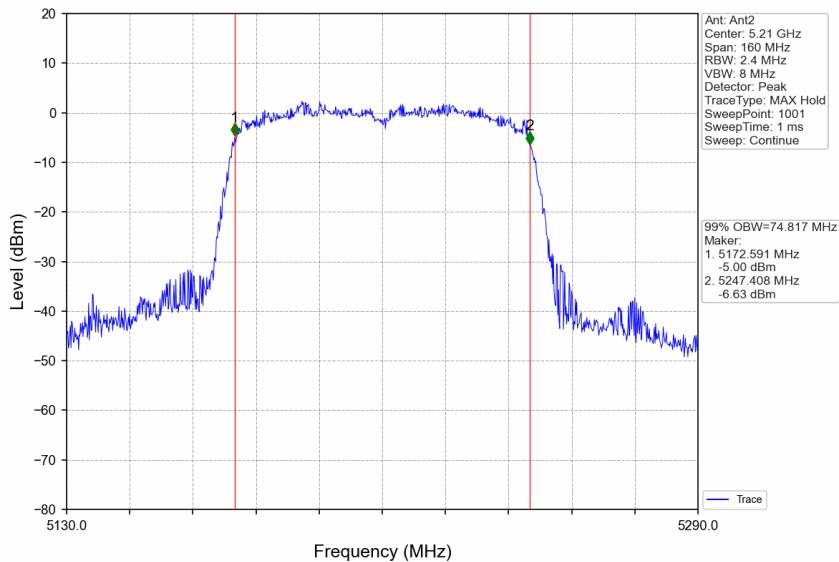
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant2\_NTNV



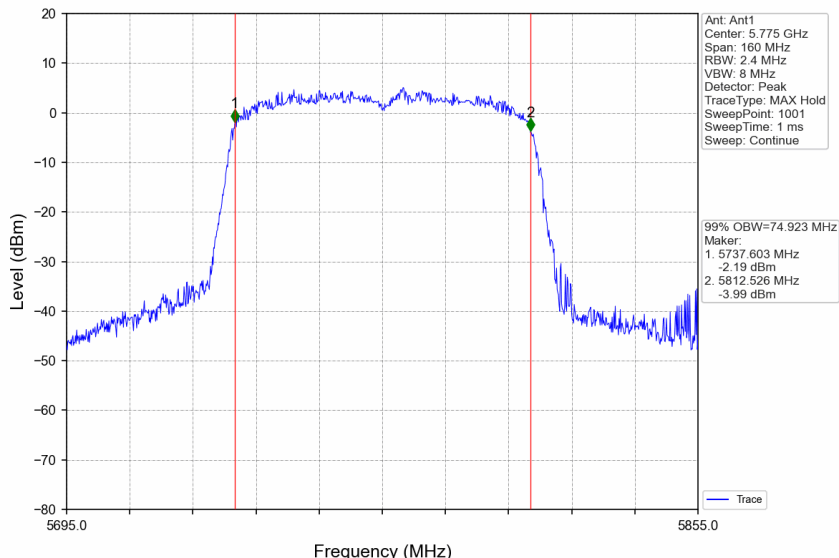
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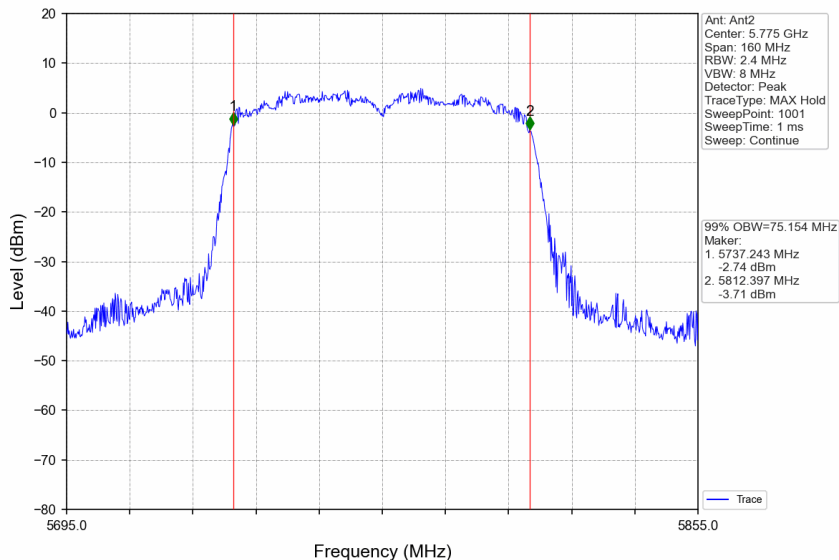
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802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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	16.350	>=0.5	Pass
			2	16.345	>=0.5	Pass
		5785	1	16.353	>=0.5	Pass
			2	16.347	>=0.5	Pass
		5825	1	16.346	>=0.5	Pass
			2	16.346	>=0.5	Pass
802.11n (HT20)	MIMO	5745	1	17.291	>=0.5	Pass
			2	17.543	>=0.5	Pass
		5785	1	17.554	>=0.5	Pass
			2	17.594	>=0.5	Pass
		5825	1	17.646	>=0.5	Pass
			2	17.591	>=0.5	Pass
802.11n (HT40)	MIMO	5755	1	33.932	>=0.5	Pass
			2	34.773	>=0.5	Pass
		5795	1	35.116	>=0.5	Pass
			2	35.173	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	17.571	>=0.5	Pass
			2	17.332	>=0.5	Pass
		5785	1	17.595	>=0.5	Pass
			2	17.581	>=0.5	Pass
		5825	1	17.362	>=0.5	Pass
			2	17.598	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	35.176	>=0.5	Pass
			2	33.937	>=0.5	Pass
		5795	1	34.148	>=0.5	Pass
			2	35.175	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	75.111	>=0.5	Pass
			2	75.089	>=0.5	Pass

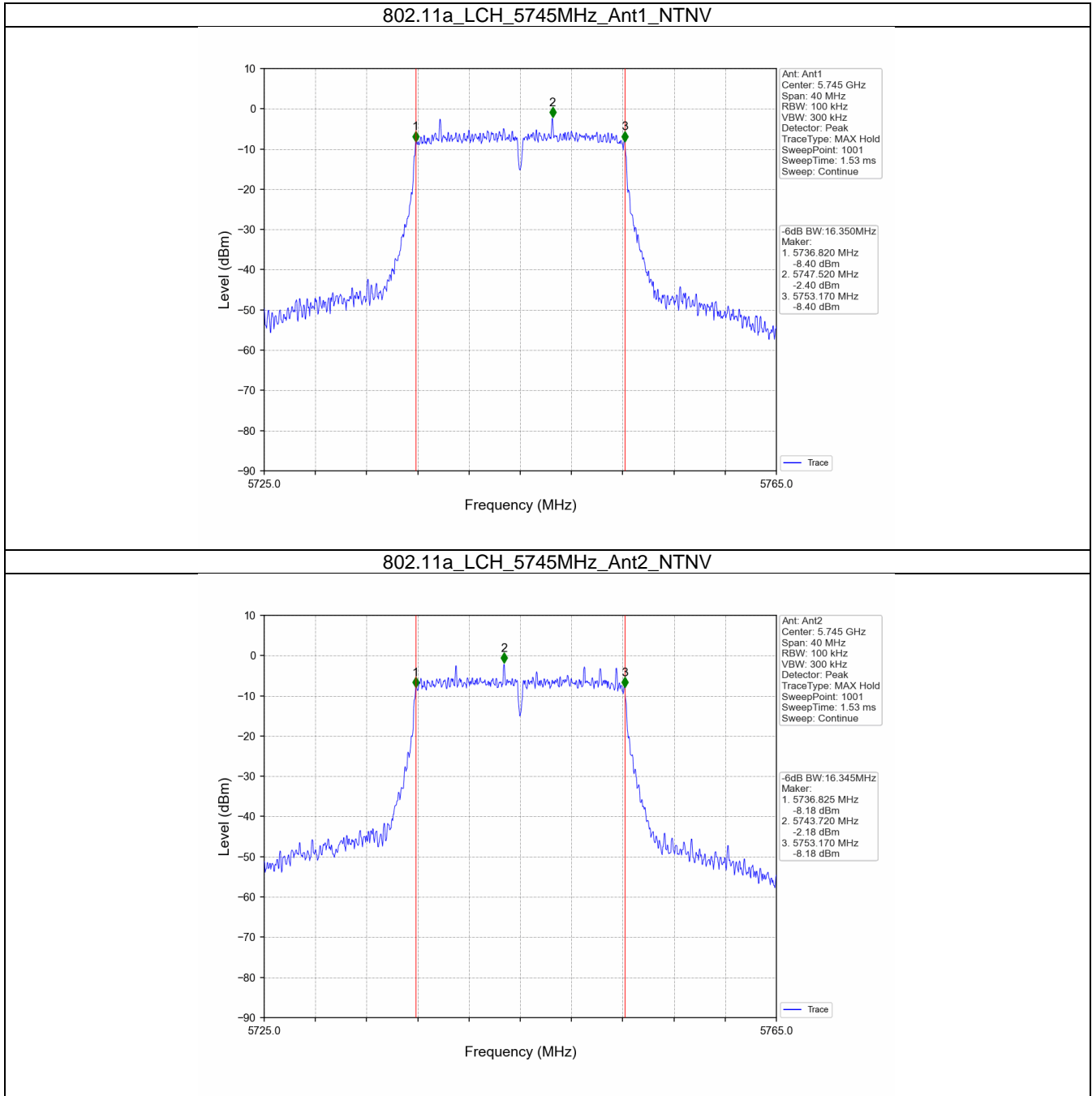


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2.2.2 Test Graph

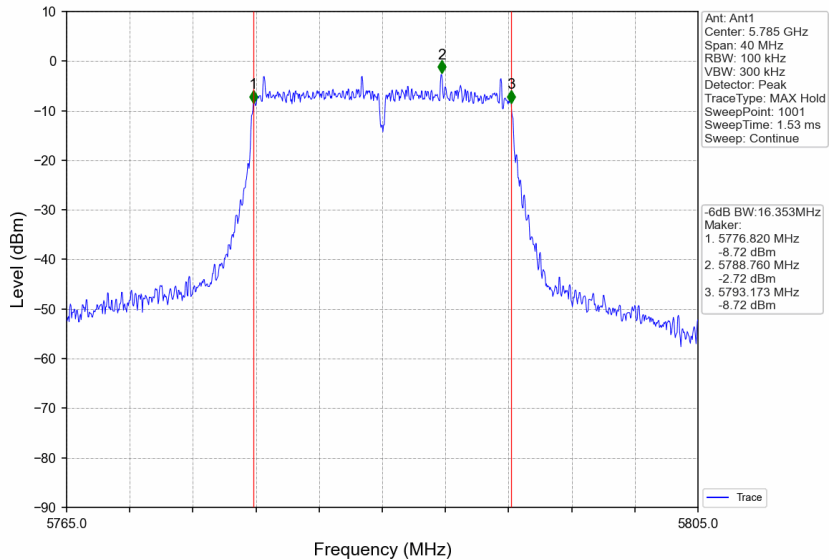


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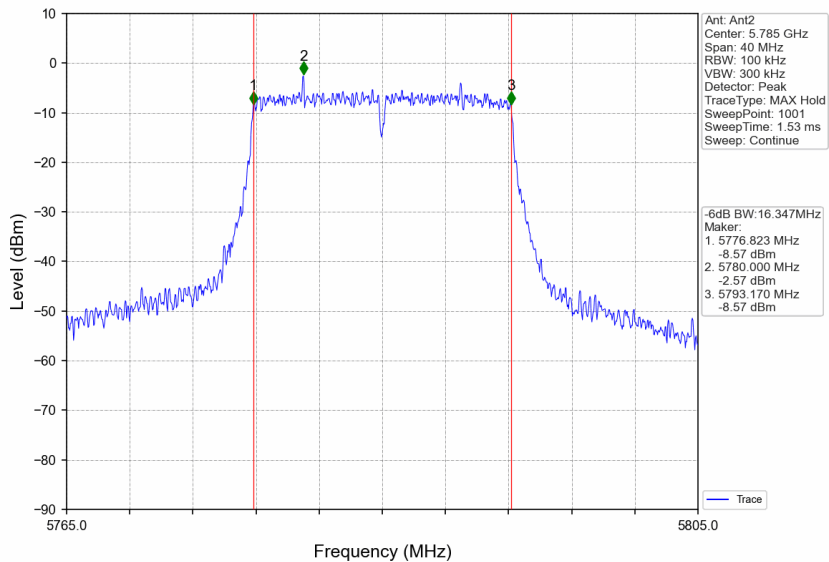
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802.11a\_MCH\_5785MHz\_Ant1\_NTNV



802.11a\_MCH\_5785MHz\_Ant2\_NTNV



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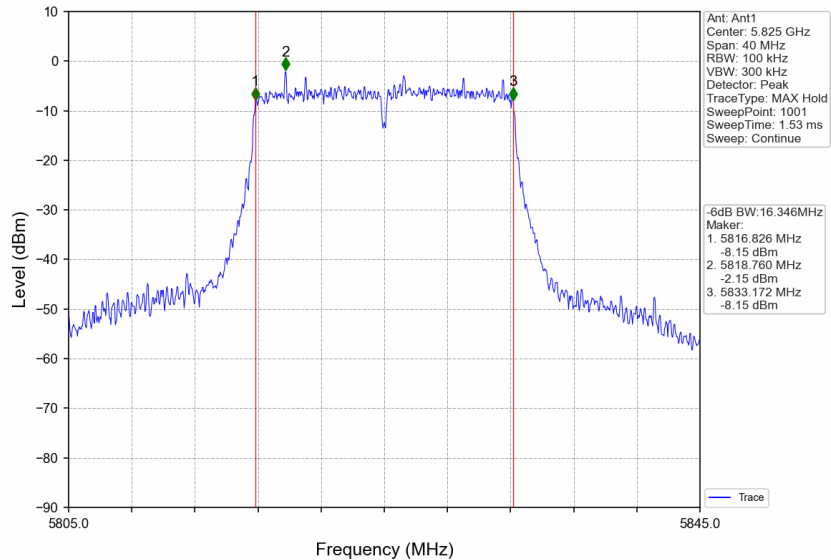
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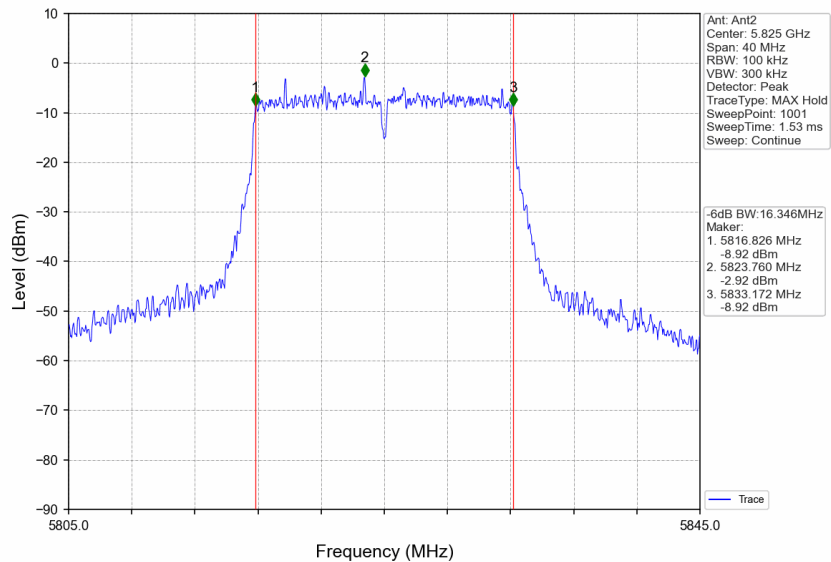
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802.11a\_HCH\_5825MHz\_Ant1\_NTNV



802.11a\_HCH\_5825MHz\_Ant2\_NTNV



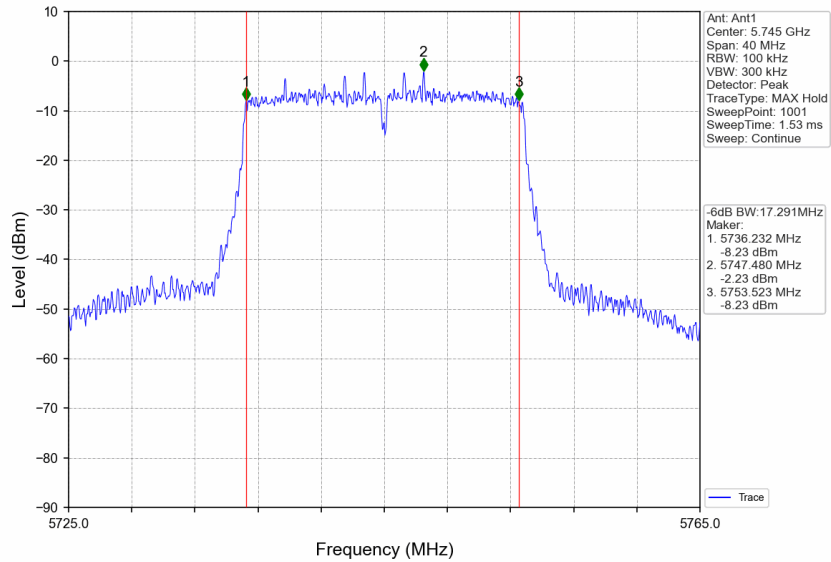
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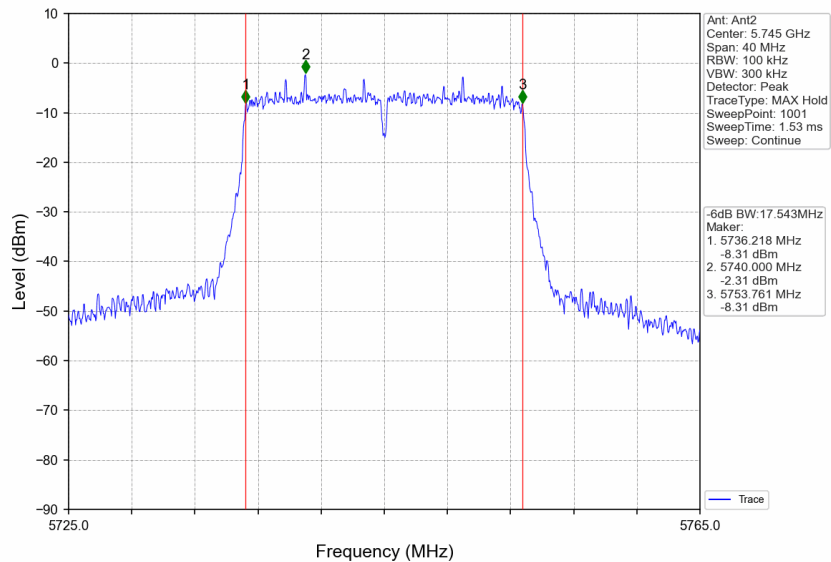
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802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5745MHz\_Ant2\_NTNV



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