Appendix RF test data for WIFI5G

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

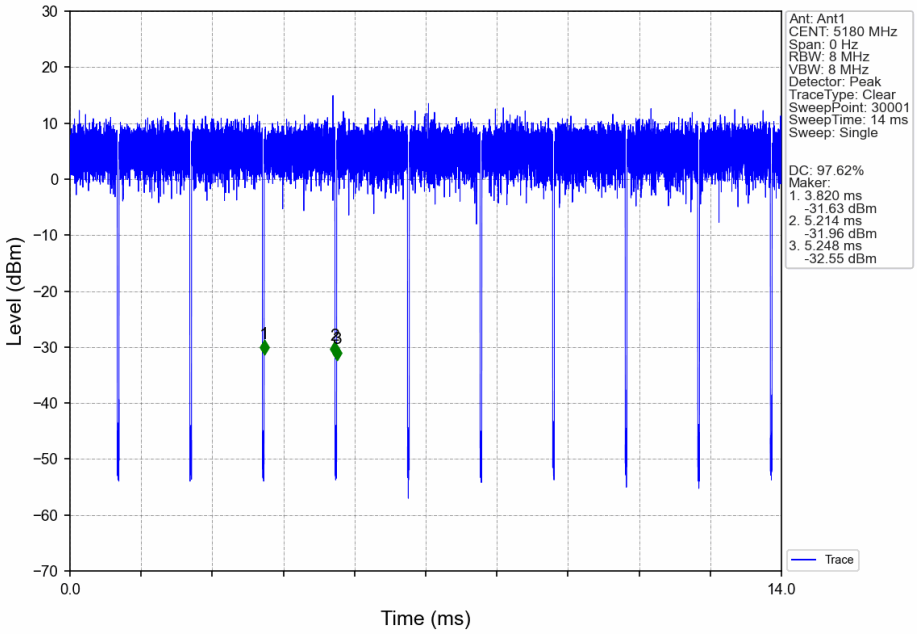
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.394	1.428	97.62	0.10	0.03
		5200	1.392	1.427	97.55	0.11	0.00
		5240	1.394	1.429	97.55	0.11	0.10
		5260	1.392	1.427	97.55	0.11	0.00
		5300	1.392	1.427	97.55	0.11	0.00
		5320	1.392	1.428	97.48	0.11	0.03
		5500	1.392	1.428	97.48	0.11	0.03
		5580	1.392	1.428	97.48	0.11	0.00
		5700	1.392	1.428	97.48	0.11	0.06
		5745	1.393	1.428	97.55	0.11	0.06
		5785	1.392	1.427	97.55	0.11	0.03
		5825	1.393	1.428	97.55	0.11	0.03
802.11n (HT20)	SISO	5180	1.302	1.336	97.46	0.11	0.03
		5200	1.302	1.336	97.46	0.11	0.03
		5240	1.302	1.336	97.46	0.11	0.03
		5260	1.300	1.336	97.31	0.12	0.03
		5300	1.300	1.336	97.31	0.12	0.04
		5320	1.301	1.336	97.38	0.12	0.07
		5500	1.300	1.336	97.31	0.12	0.03
		5580	1.300	1.335	97.38	0.12	0.03
		5700	1.301	1.336	97.38	0.12	0.07
		5745	1.300	1.336	97.31	0.12	0.10
		5785	1.300	1.336	97.31	0.12	0.03
		5825	1.300	1.336	97.31	0.12	0.03
802.11n (HT40)	SISO	5190	0.648	0.683	94.88	0.23	0.07
		5230	0.648	0.683	94.88	0.23	0.07
		5270	0.649	0.683	95.02	0.22	0.03
		5310	0.649	0.683	95.02	0.22	0.03
		5510	0.648	0.683	94.88	0.23	0.03
		5550	0.648	0.683	94.88	0.23	0.04
		5670	0.648	0.683	94.88	0.23	0.03
		5755	0.649	0.683	95.02	0.22	0.03
		5795	0.648	0.683	94.88	0.23	0.07
802.11ac (VHT20)	SISO	5180	1.315	1.349	97.48	0.11	0.07
		5200	1.315	1.349	97.48	0.11	0.07
		5240	1.312	1.348	97.33	0.12	0.03
		5260	1.312	1.348	97.33	0.12	0.07
		5300	1.312	1.348	97.33	0.12	0.03
		5320	1.312	1.348	97.33	0.12	0.00
		5500	1.312	1.348	97.33	0.12	0.03
		5580	1.313	1.348	97.40	0.11	0.03
		5700	1.312	1.348	97.33	0.12	0.03
		5745	1.312	1.348	97.33	0.12	0.03
		5785	1.313	1.349	97.33	0.12	0.07
		5825	1.312	1.348	97.33	0.12	0.00
802.11ac (VHT40)	SISO	5190	0.653	0.687	95.05	0.22	0.03
		5230	0.652	0.687	94.91	0.23	0.03
		5270	0.652	0.687	94.91	0.23	0.07
		5310	0.652	0.687	94.91	0.23	0.07

		5510	0.652	0.687	94.91	0.23	0.03
		5550	0.652	0.687	94.91	0.23	0.04
		5670	0.653	0.687	95.05	0.22	0.07
		5755	0.653	0.687	95.05	0.22	0.00
		5795	0.652	0.687	94.91	0.23	0.07
802.11ac (VHT80)	SISO	5210	0.324	0.358	90.50	0.43	0.07
		5290	0.324	0.358	90.50	0.43	0.07
		5530	0.324	0.359	90.25	0.45	0.07
		5610	0.324	0.359	90.25	0.45	0.07
		5775	0.324	0.359	90.25	0.45	0.07

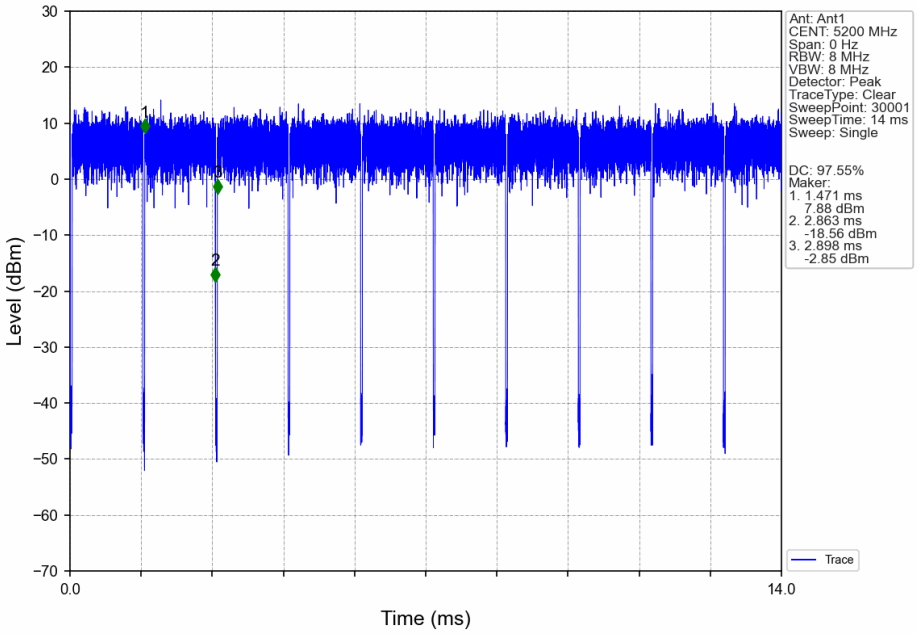
1.2 Test Graph

1.2.1 Ant1

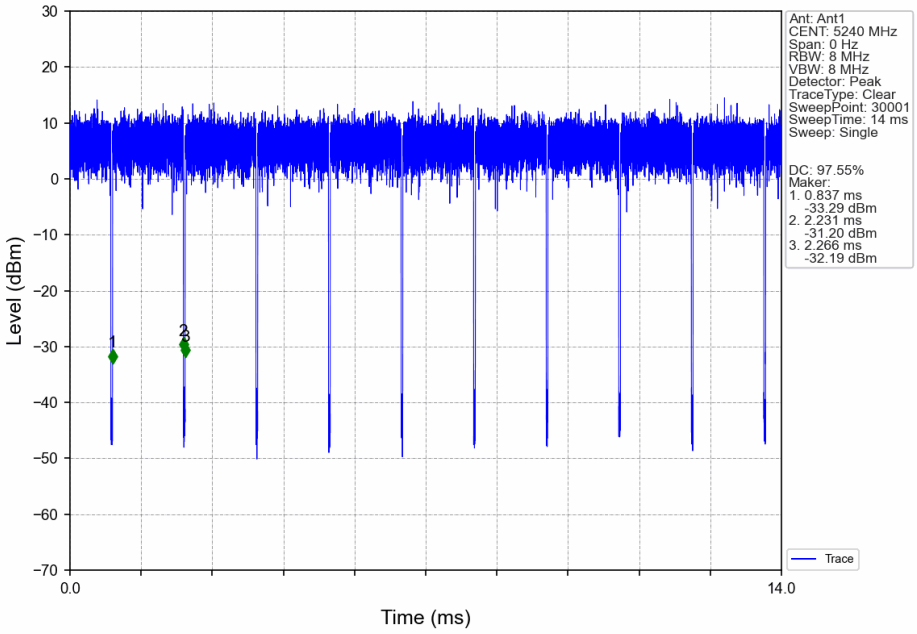
802.11a_LCH_5180MHz_Ant1_NTNV



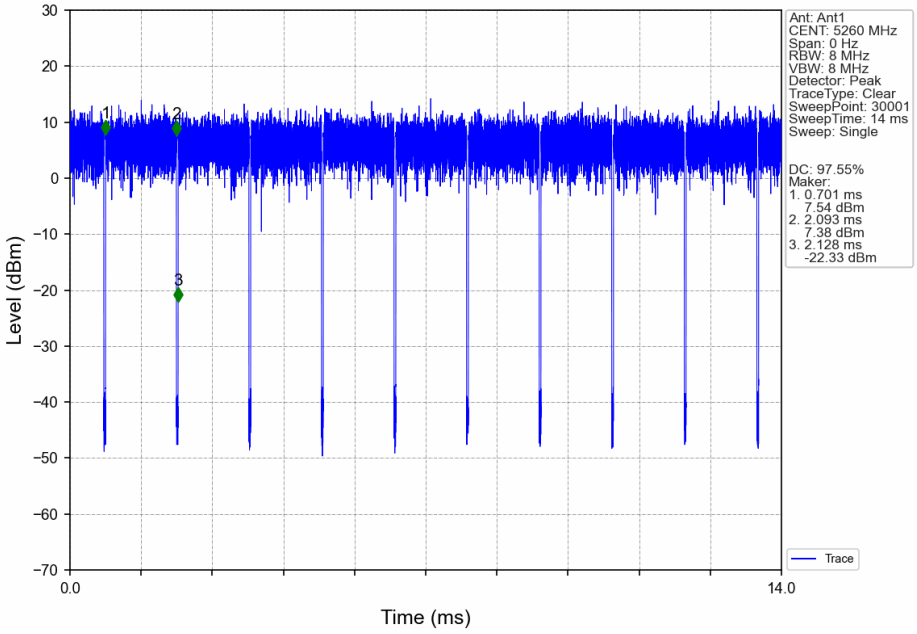
802.11a_MCH_5200MHz_Ant1_NTNV



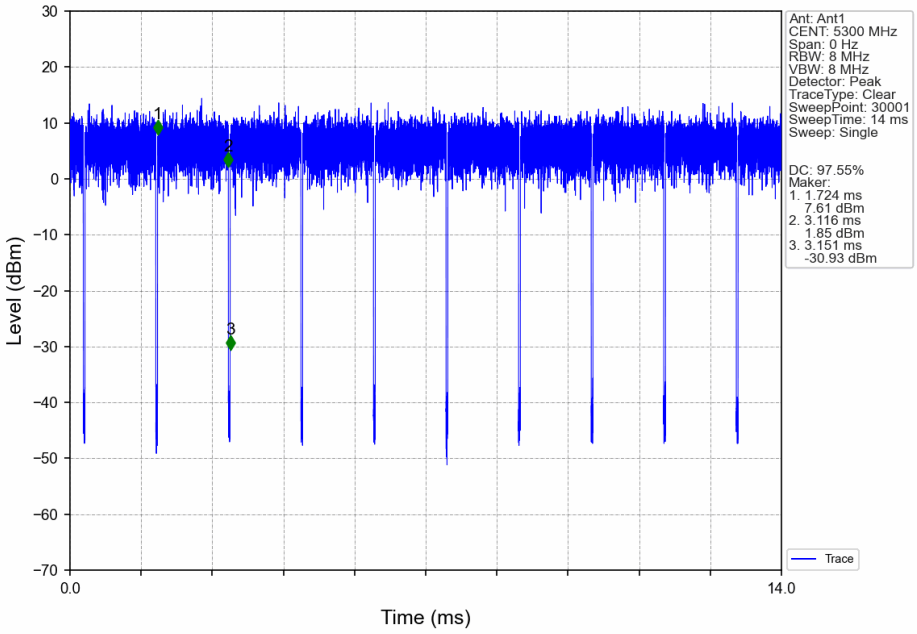
802.11a_HCH_5240MHz_Ant1_NTNV



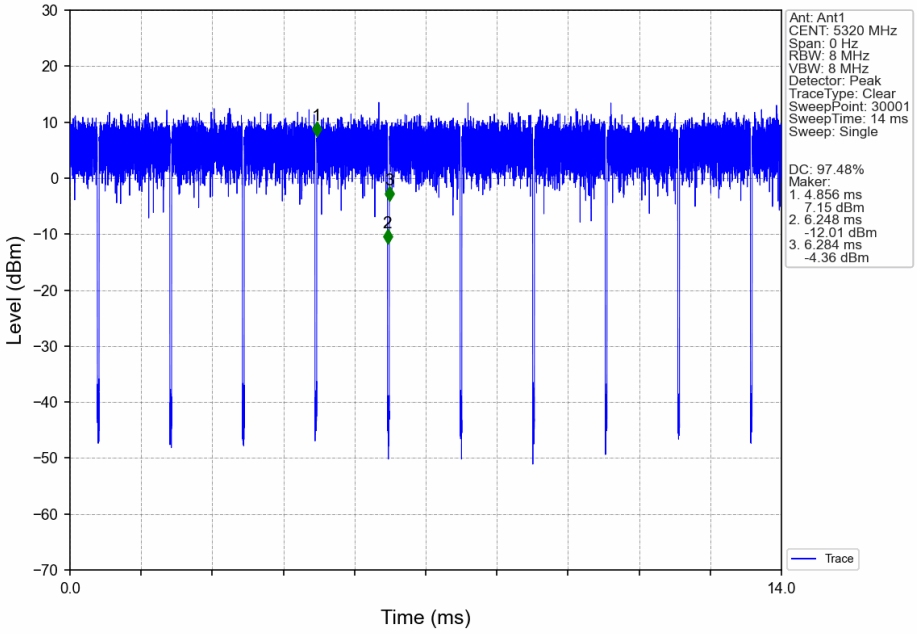
802.11a_LCH_5260MHz_Ant1_NTNV



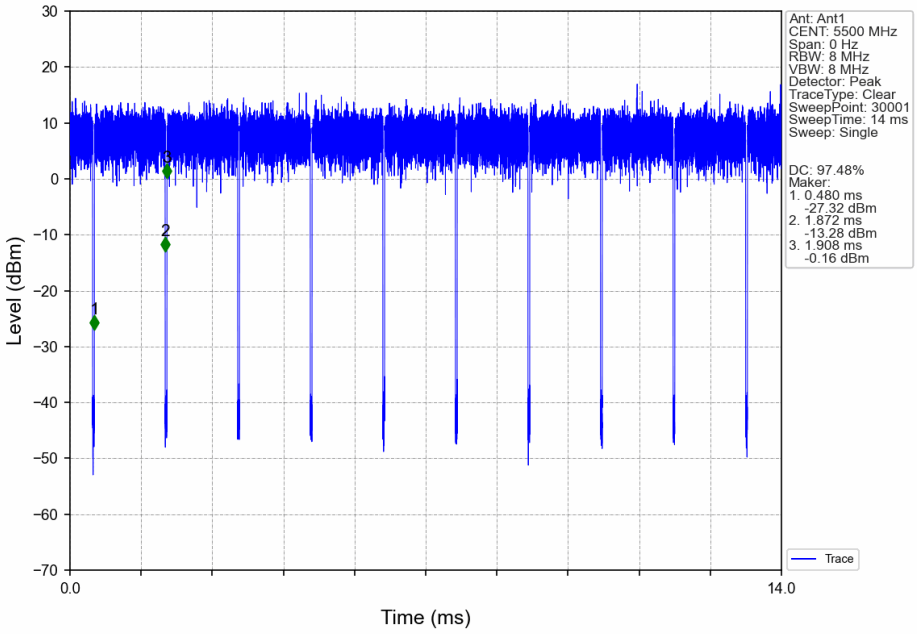
802.11a_MCH_5300MHz_Ant1_NTNV



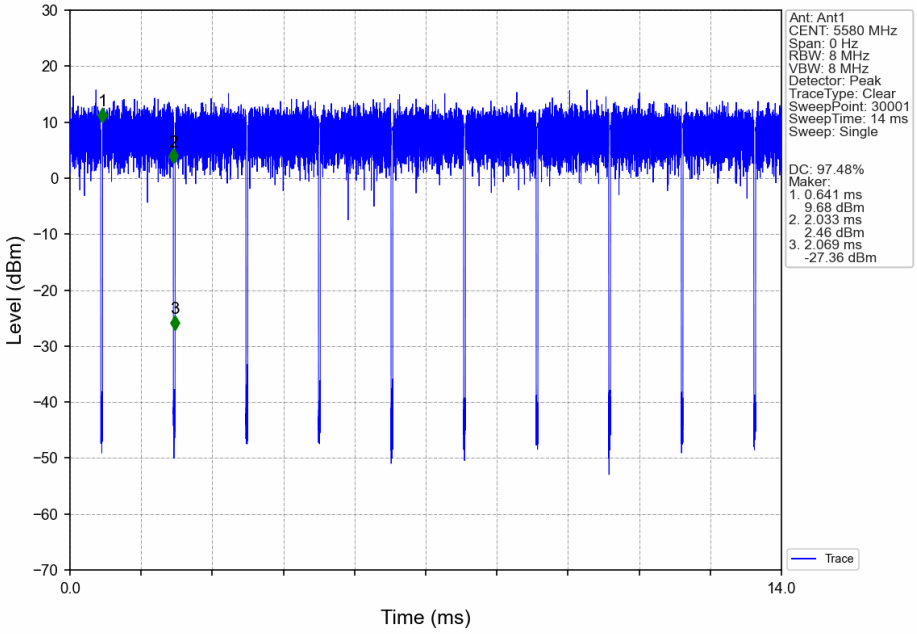
802.11a_HCH_5320MHz_Ant1_NTNV



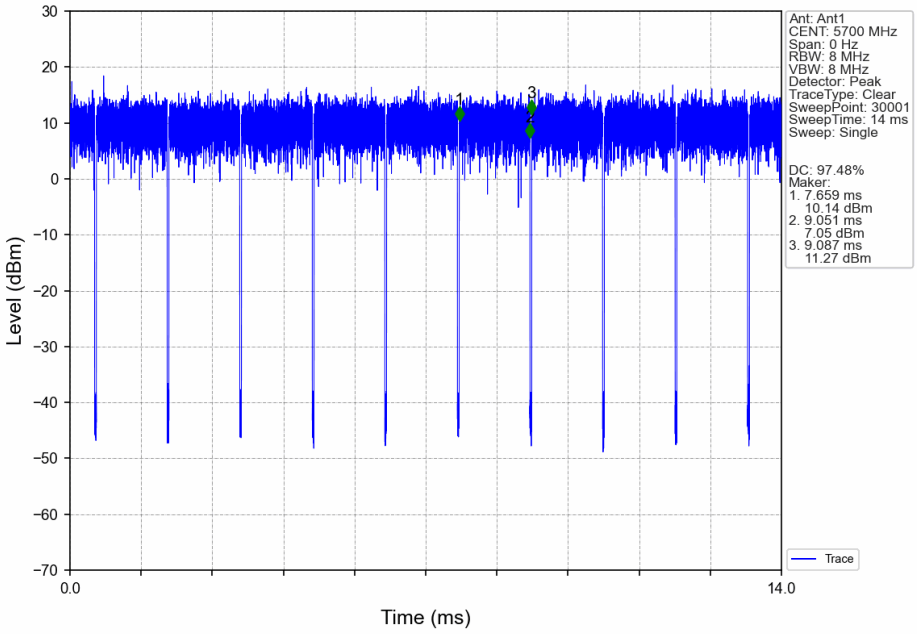
802.11a_LCH_5500MHz_Ant1_NTNV



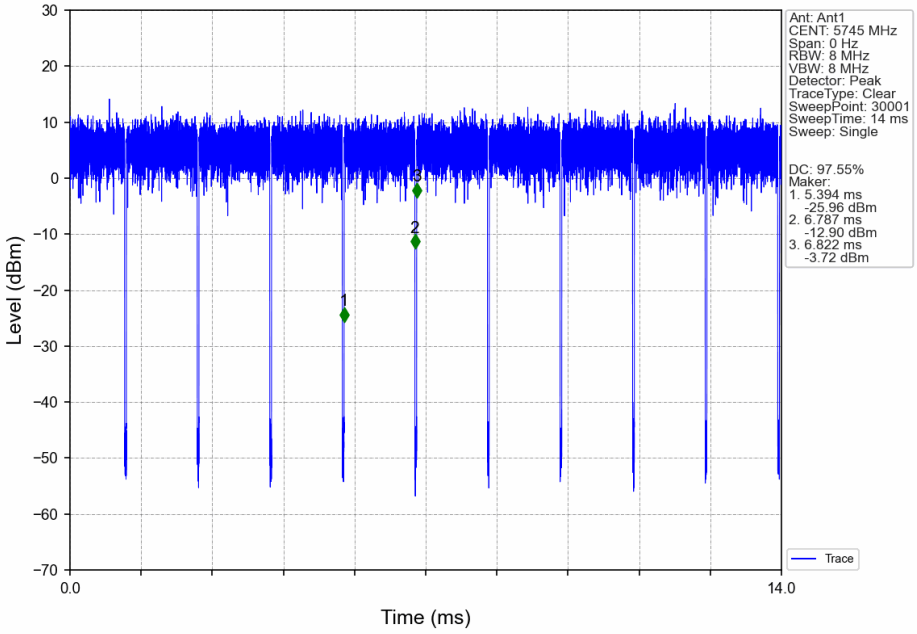
802.11a_MCH_5580MHz_Ant1_NTNV



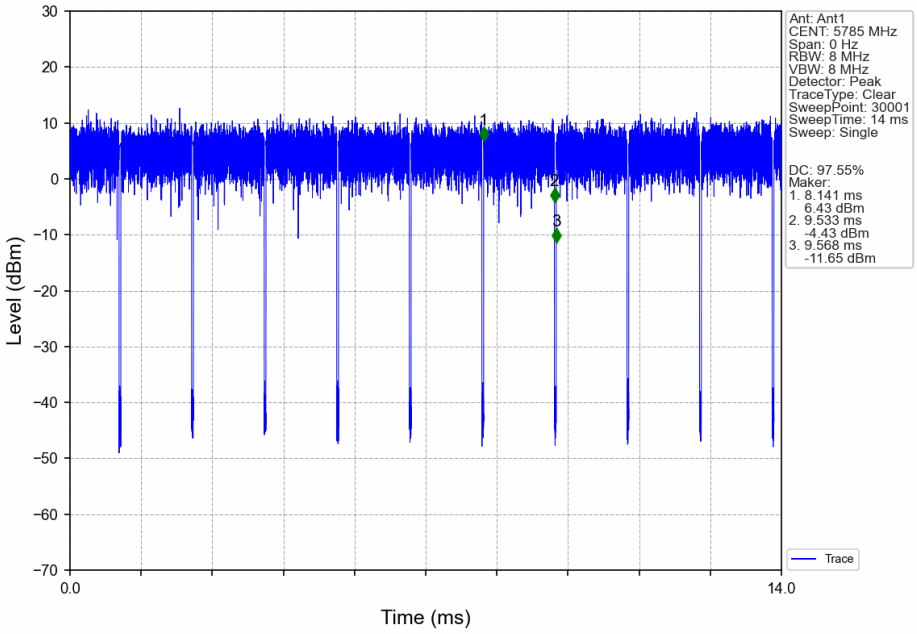
802.11a_HCH_5700MHz_Ant1_NTNV



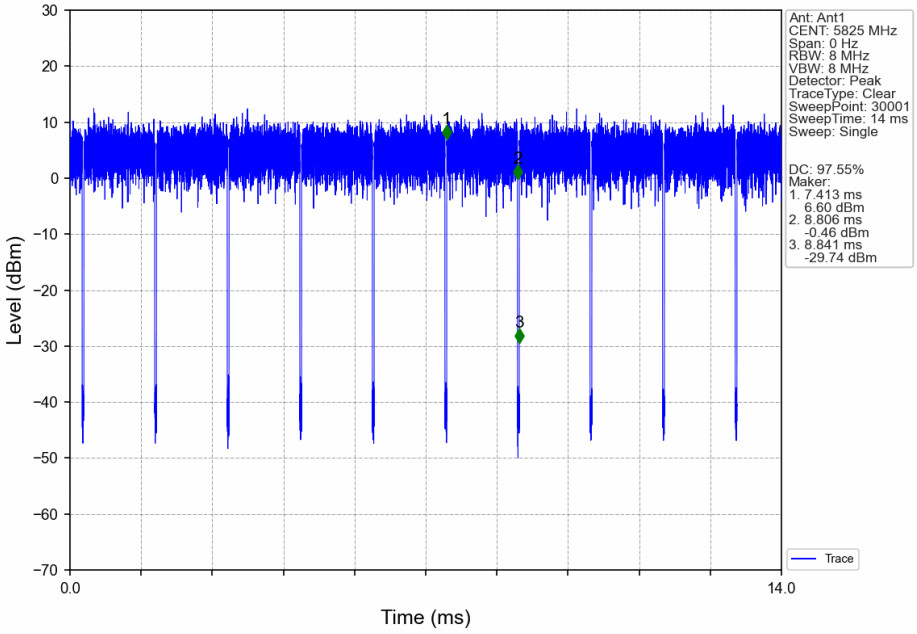
802.11a_LCH_5745MHz_Ant1_NTNV



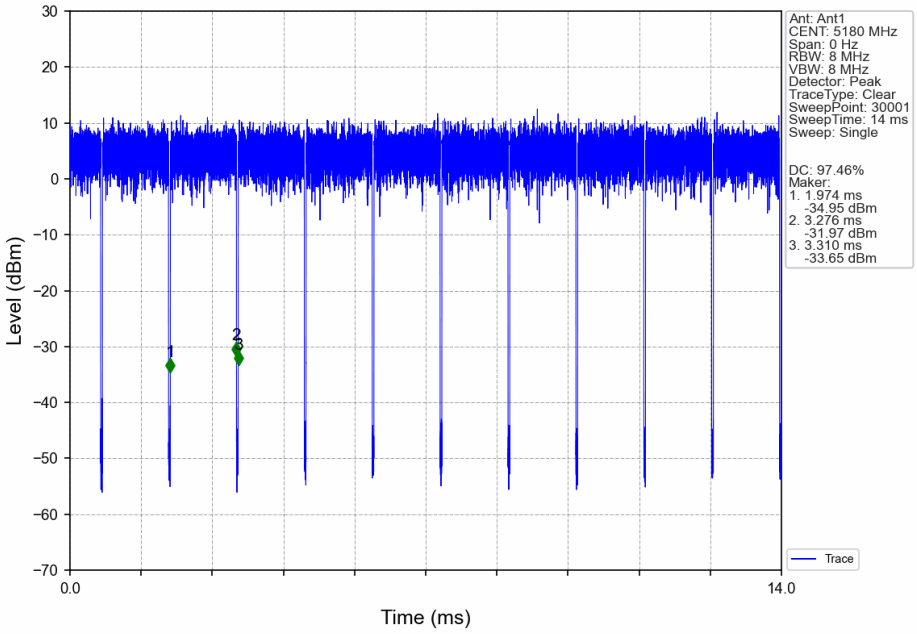
802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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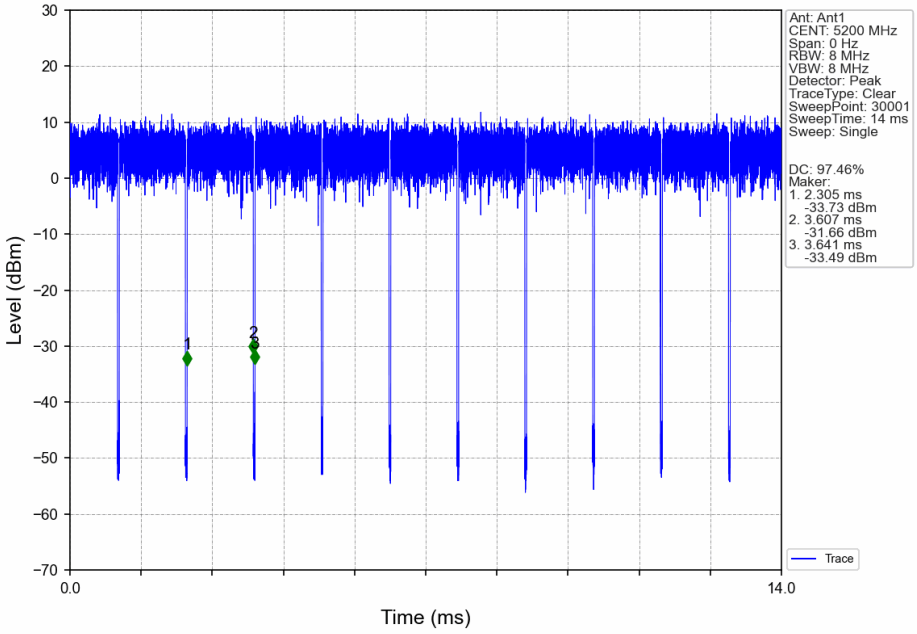

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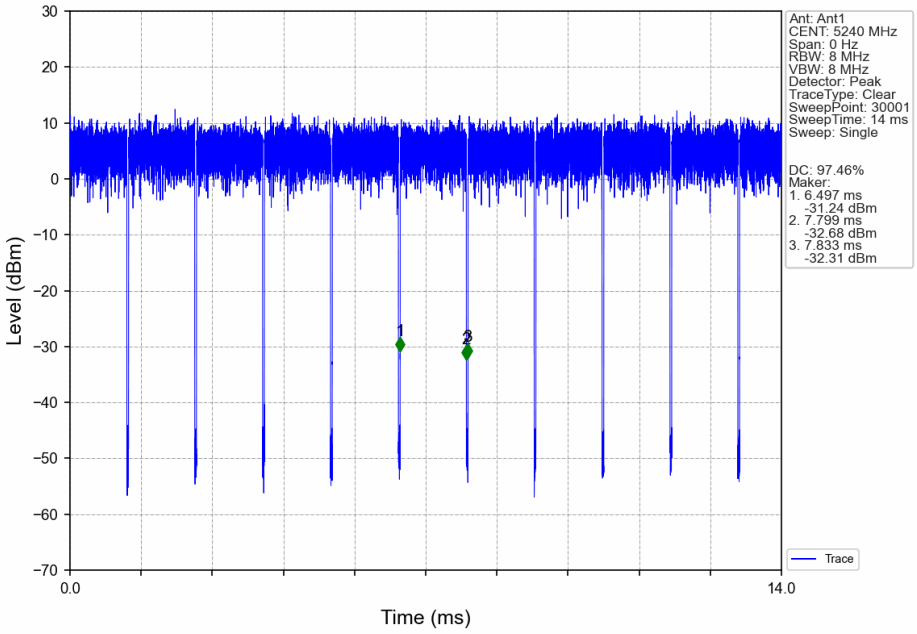

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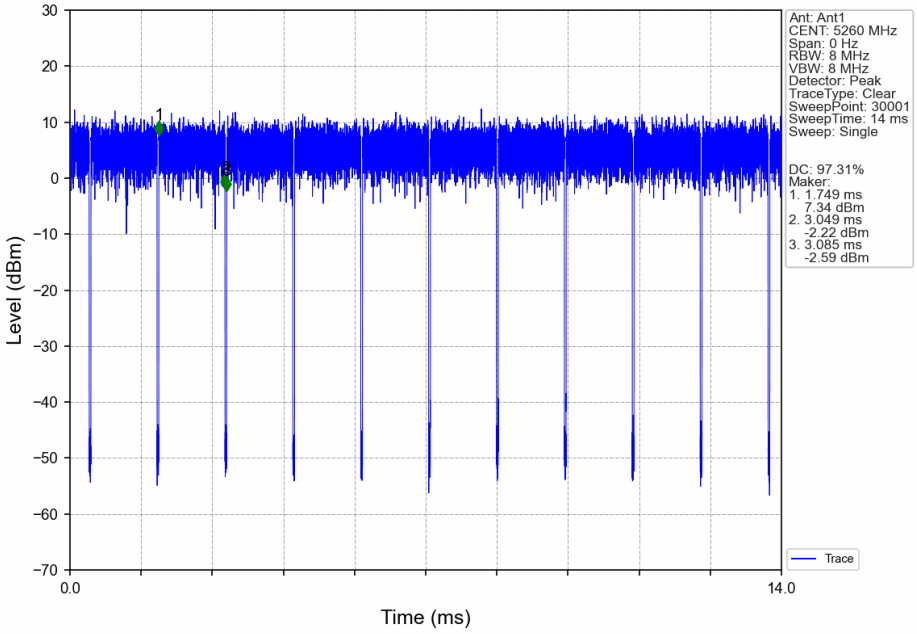

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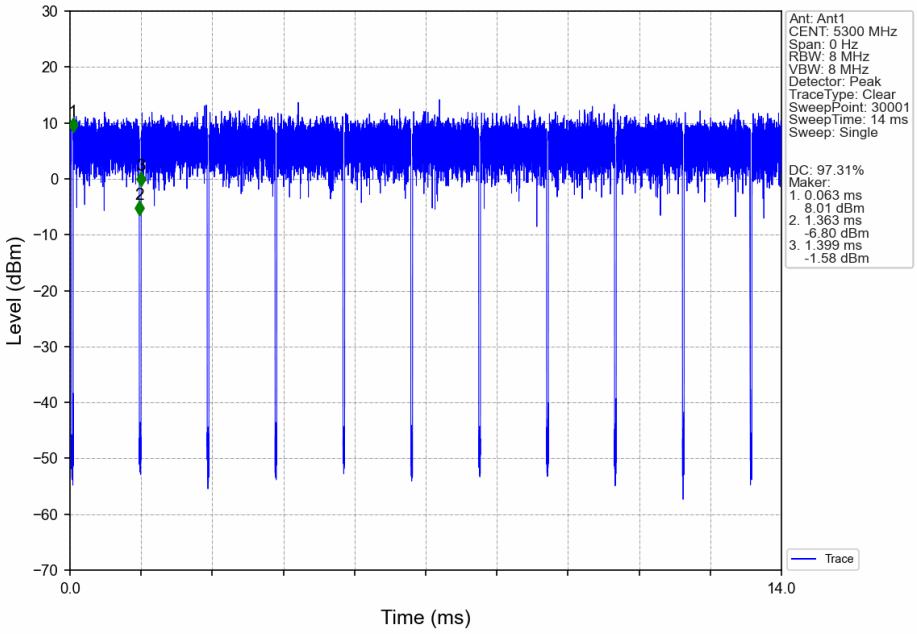

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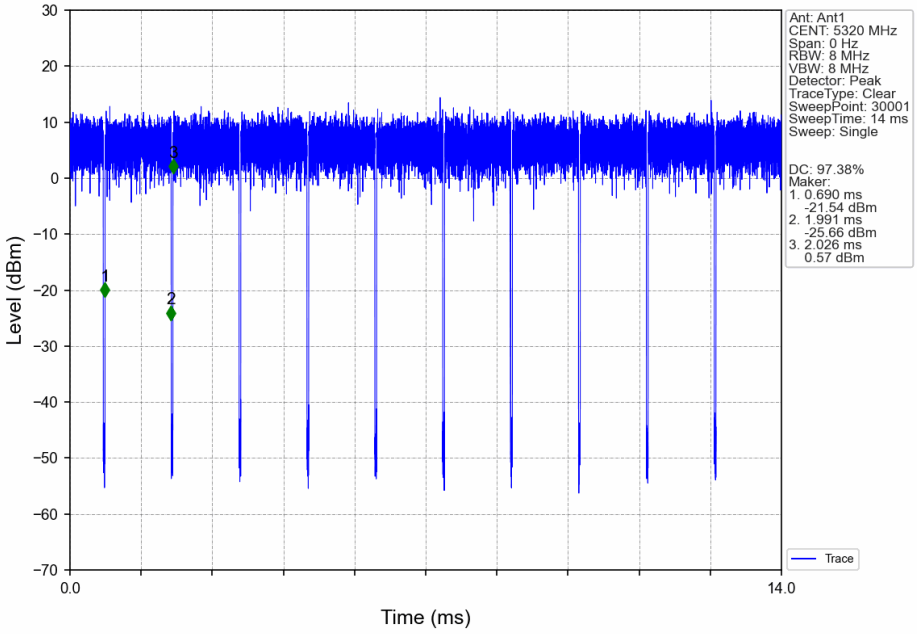
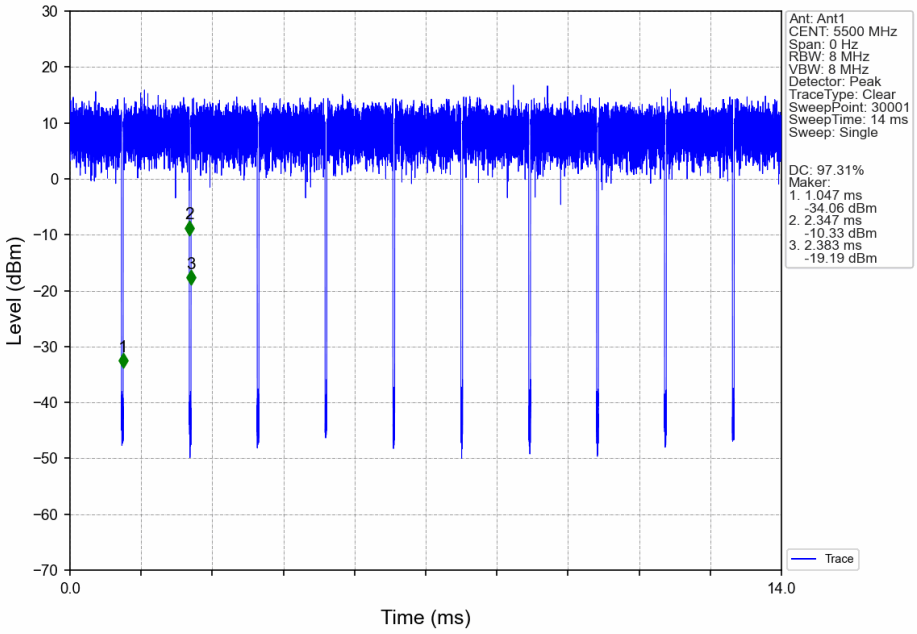


802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



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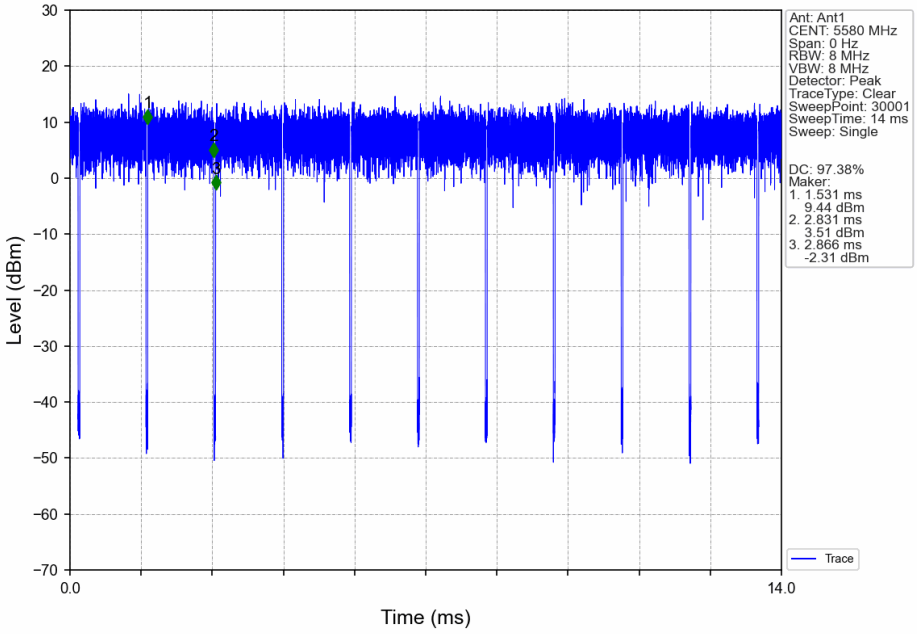
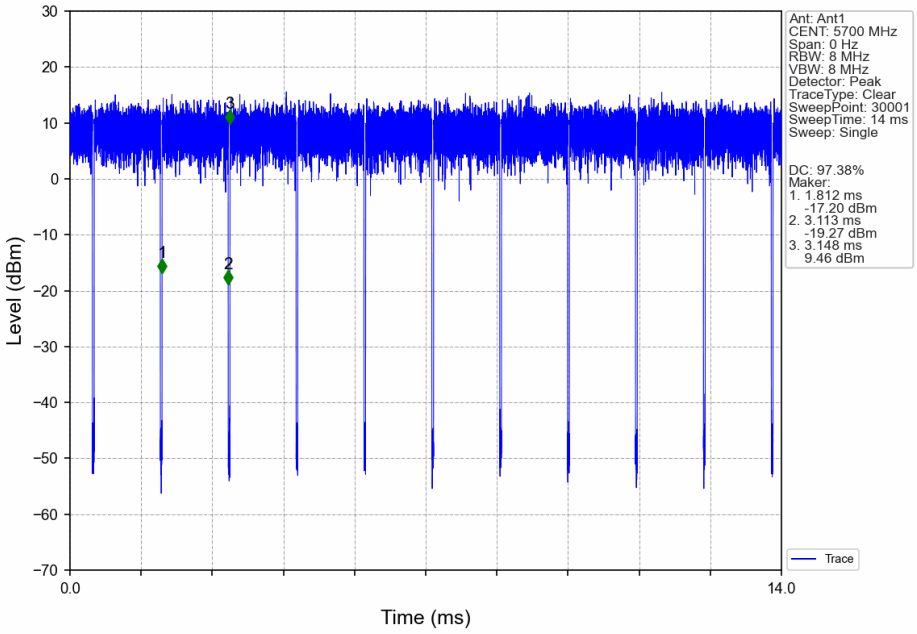


802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



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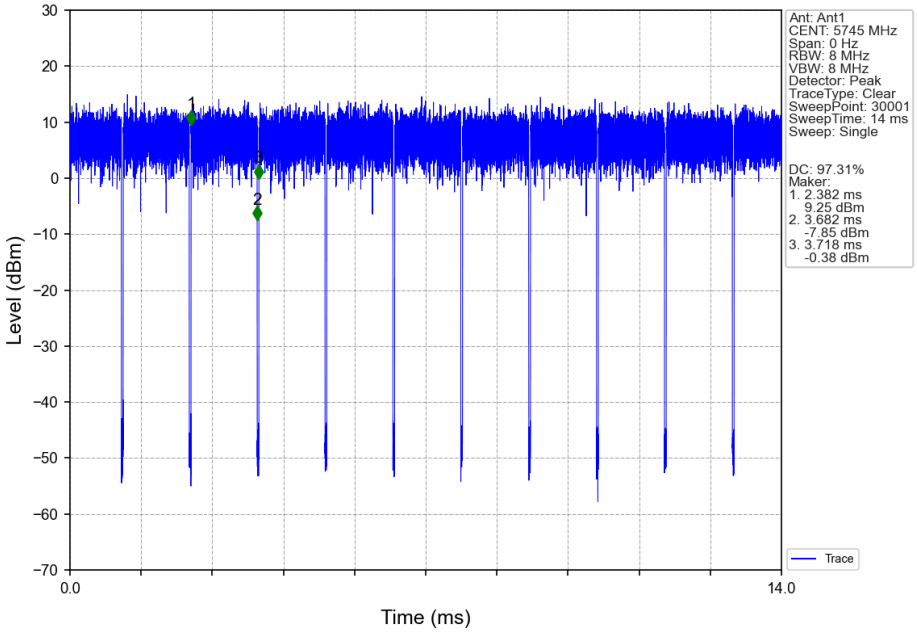

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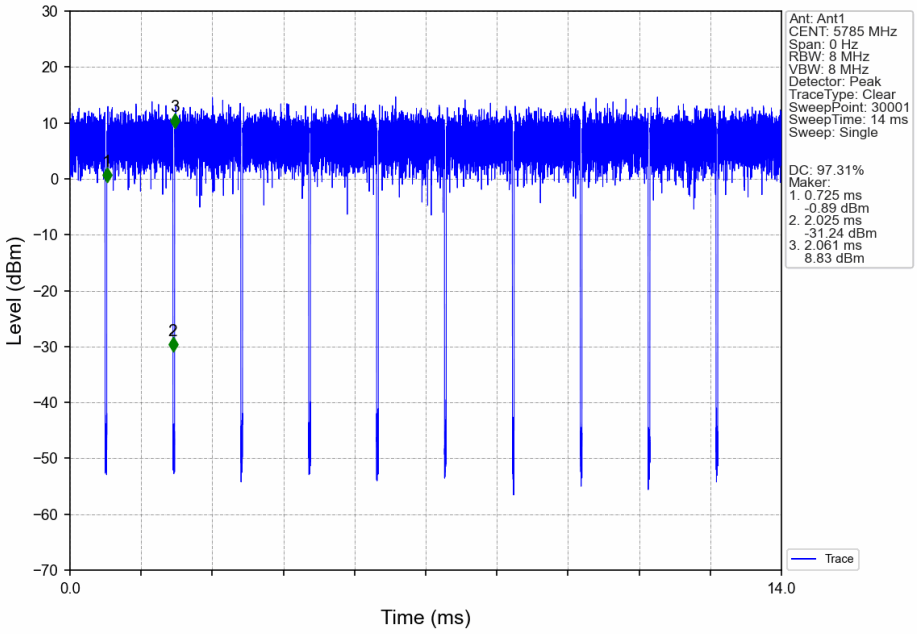

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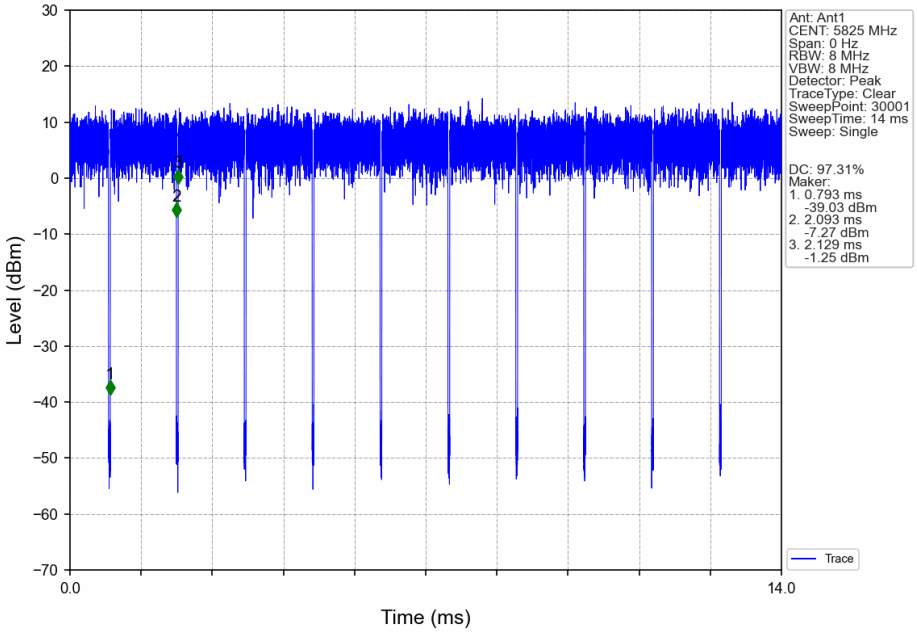

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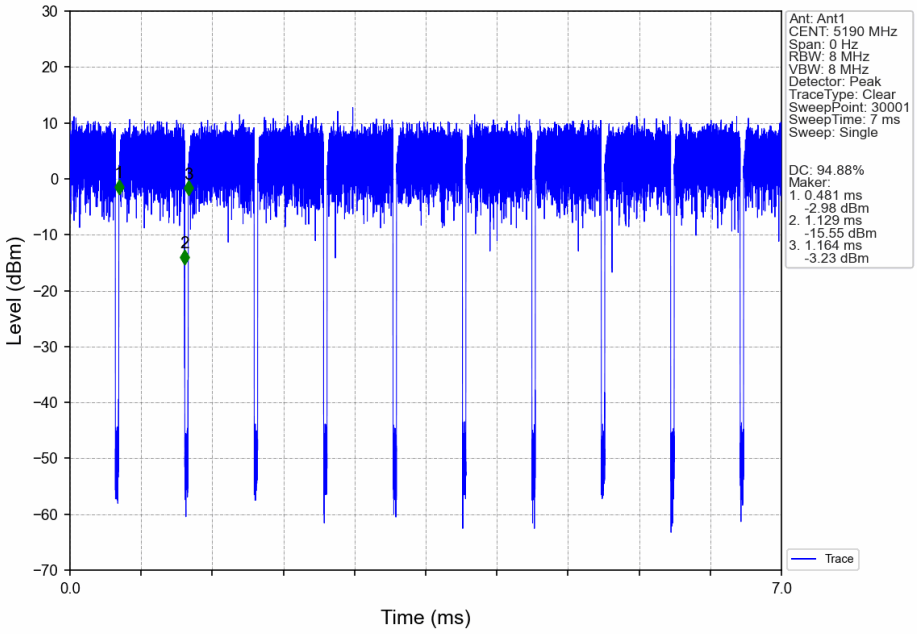
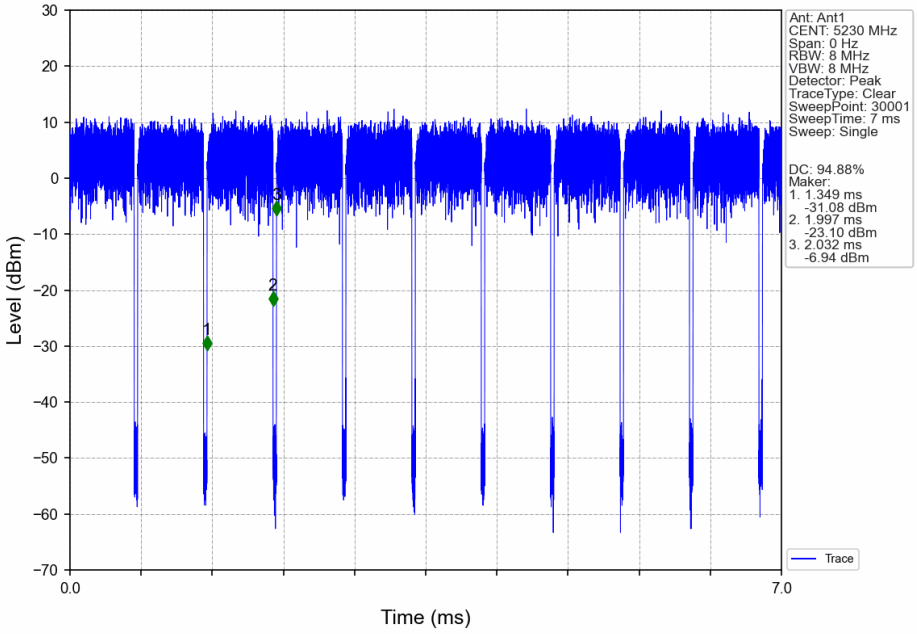


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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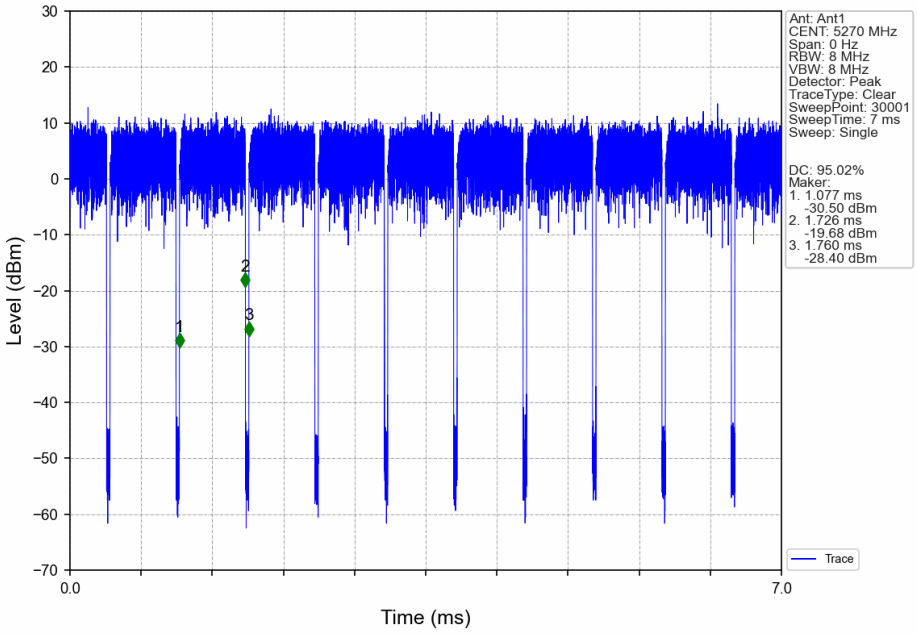

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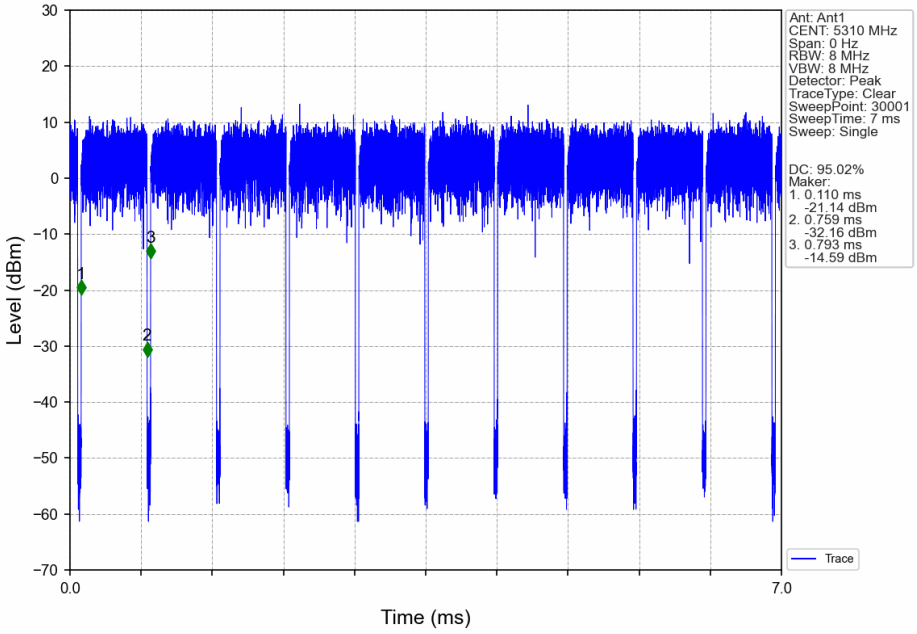

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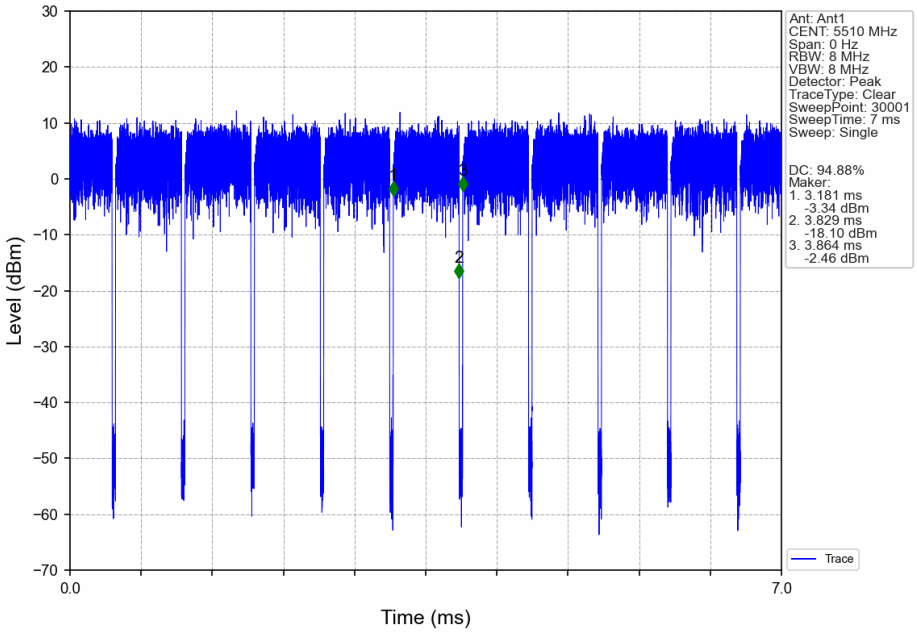

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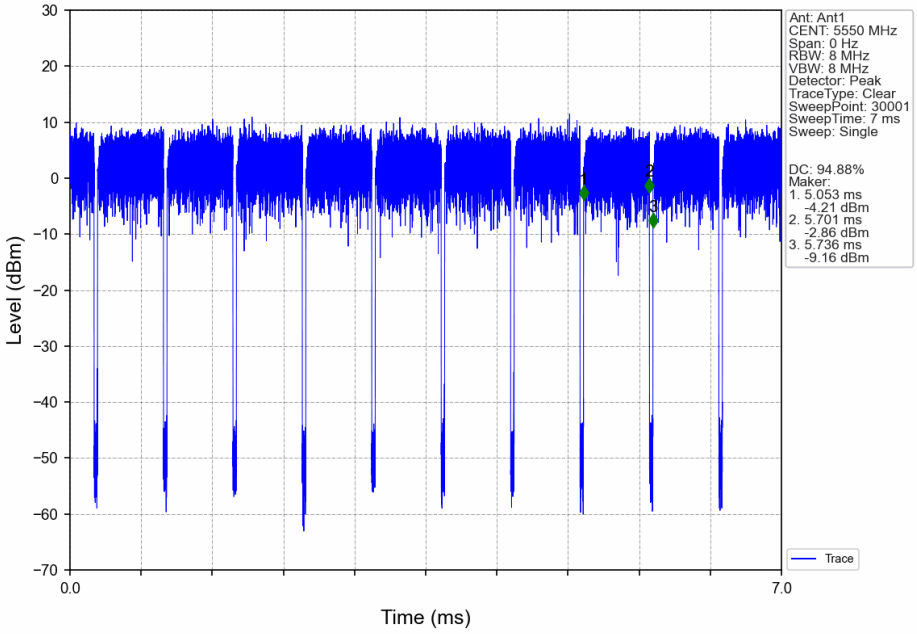

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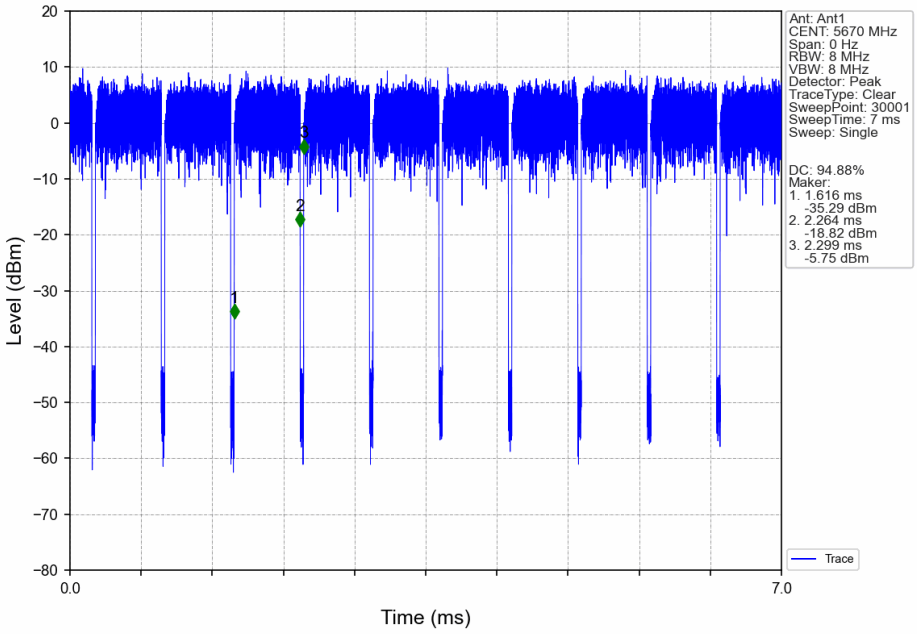

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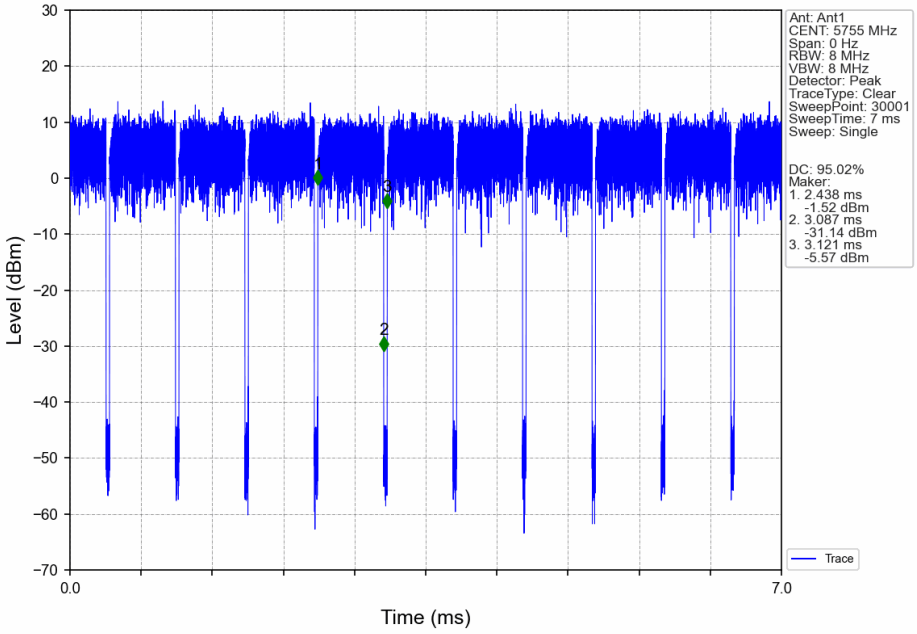

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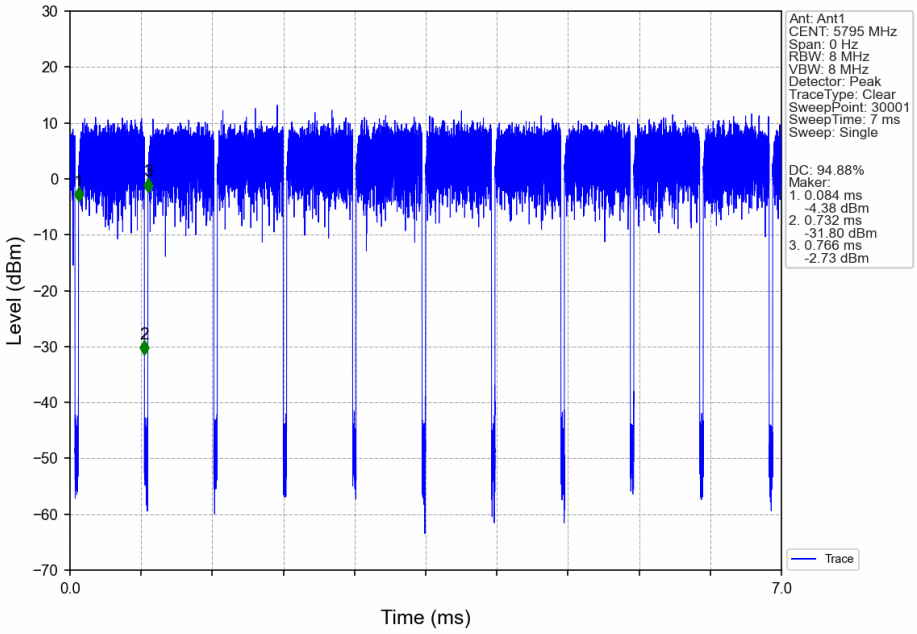
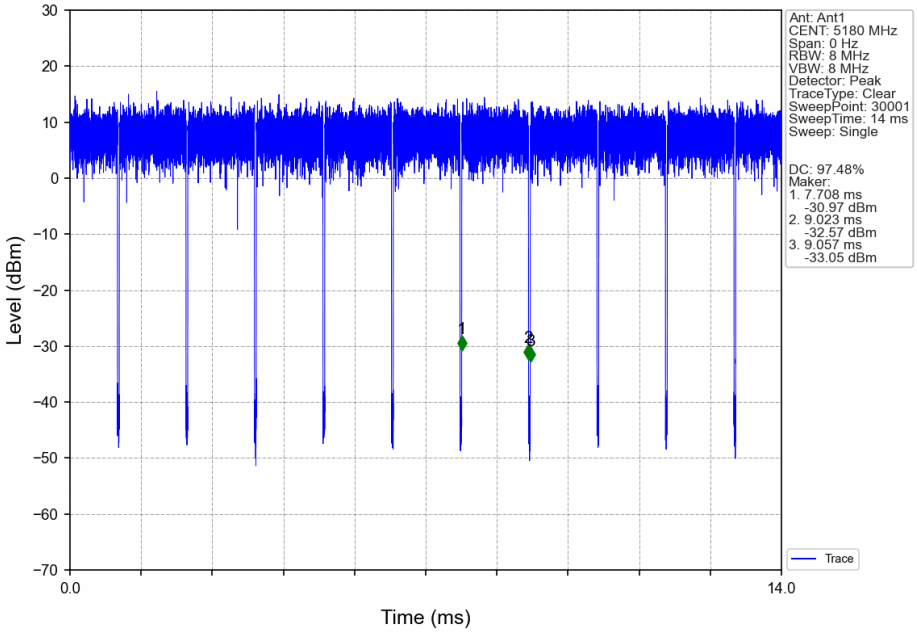


802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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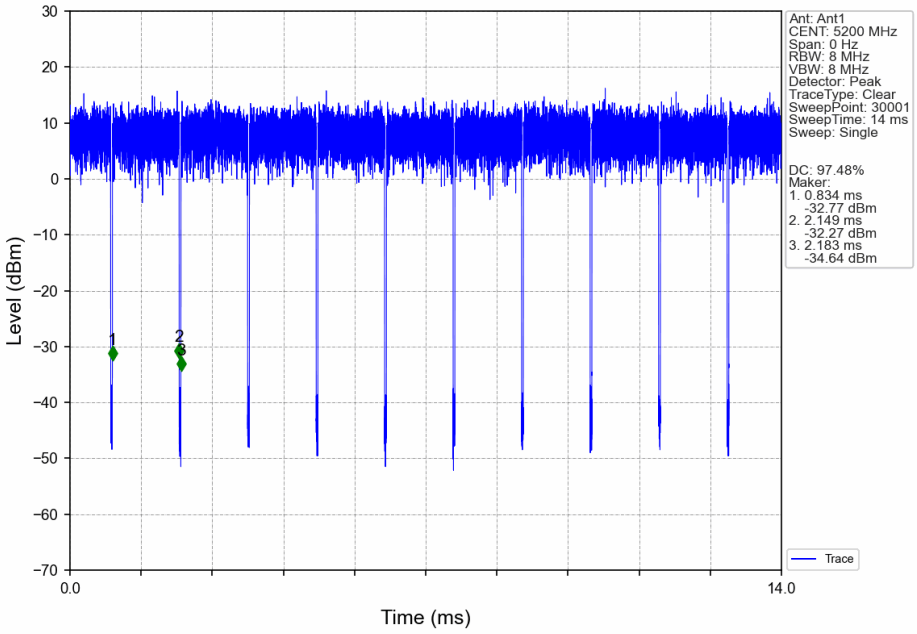

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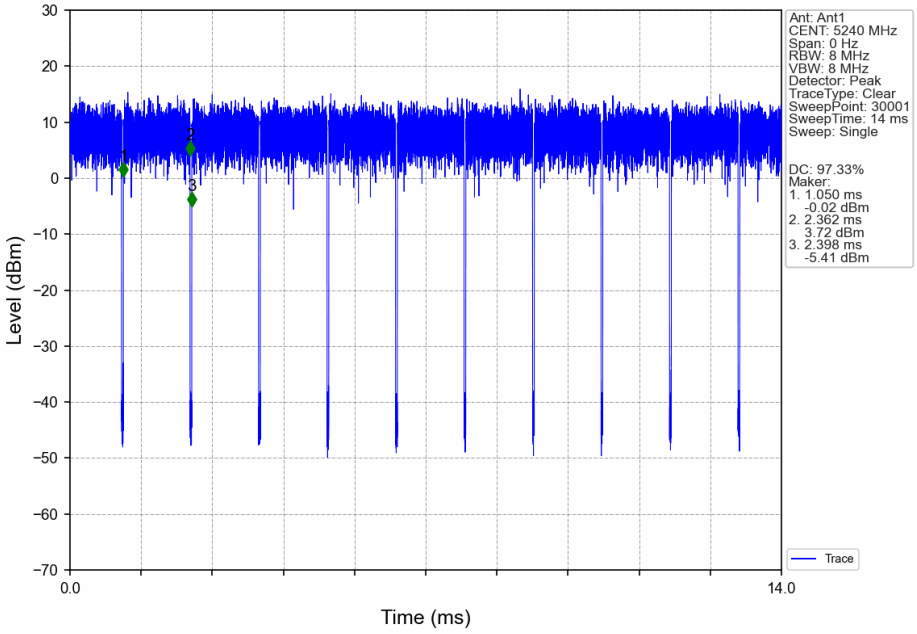

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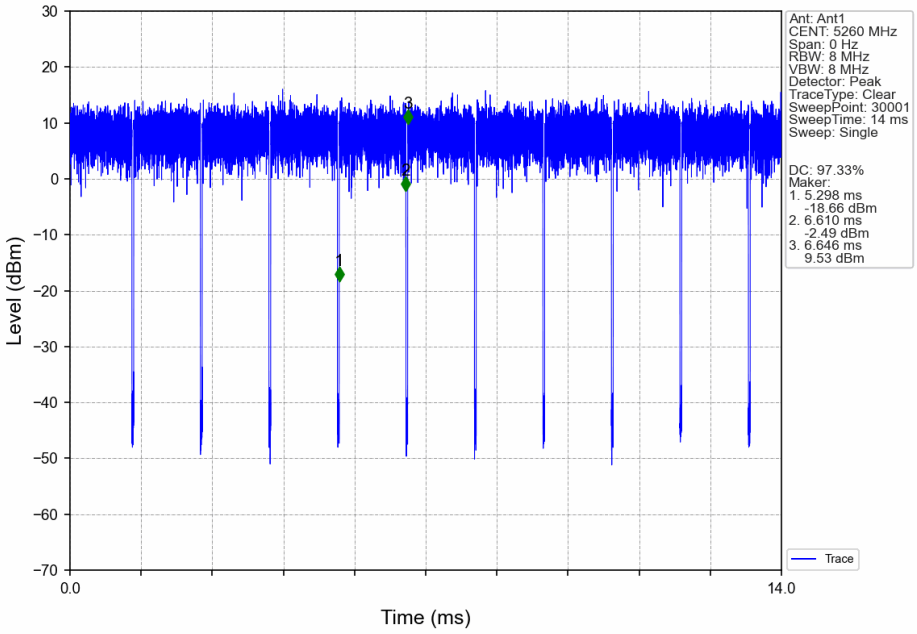

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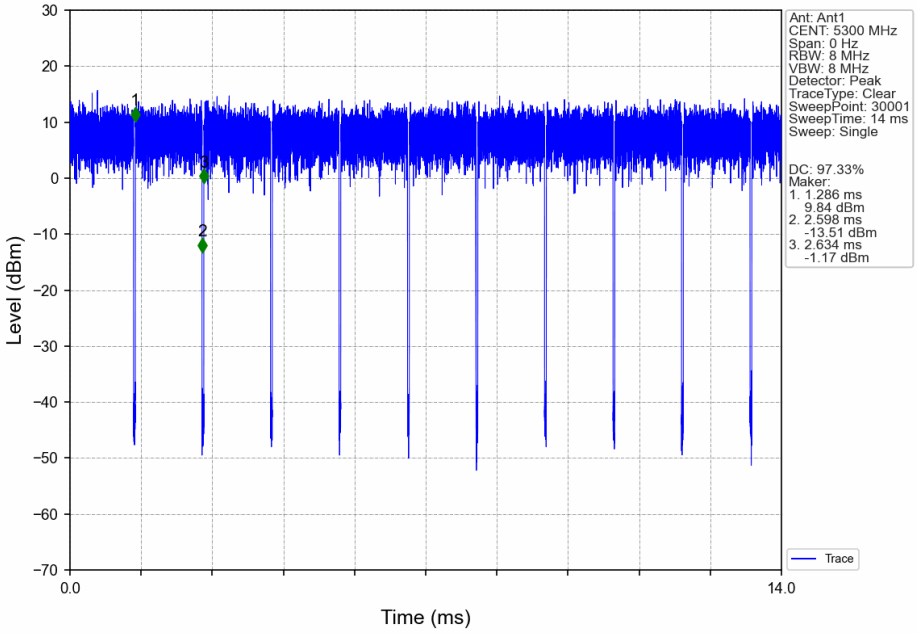

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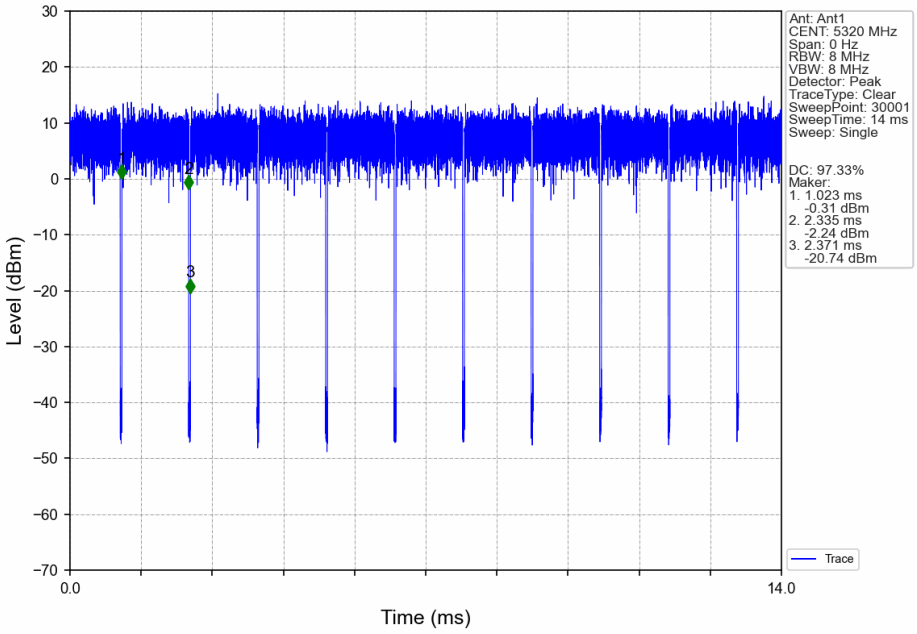
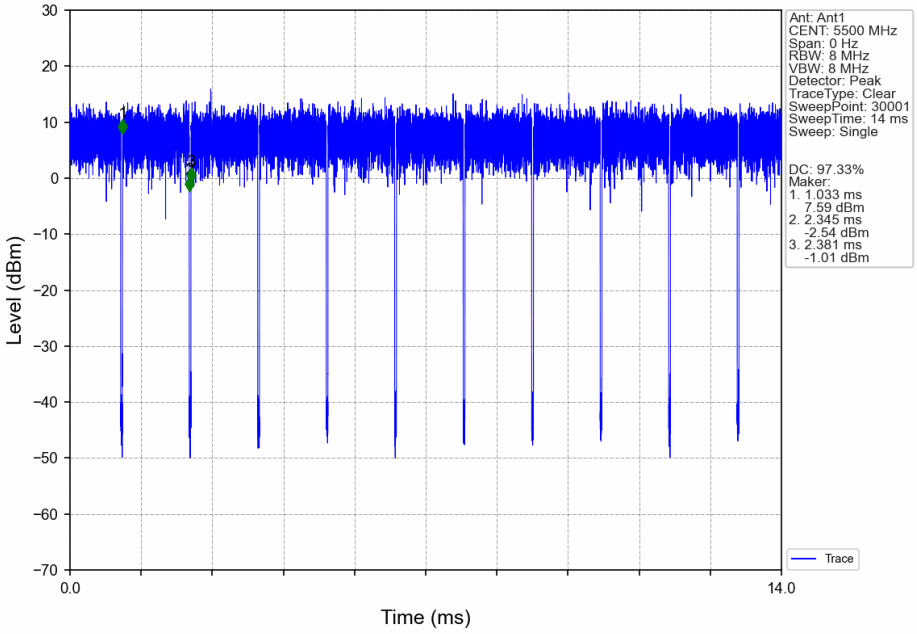
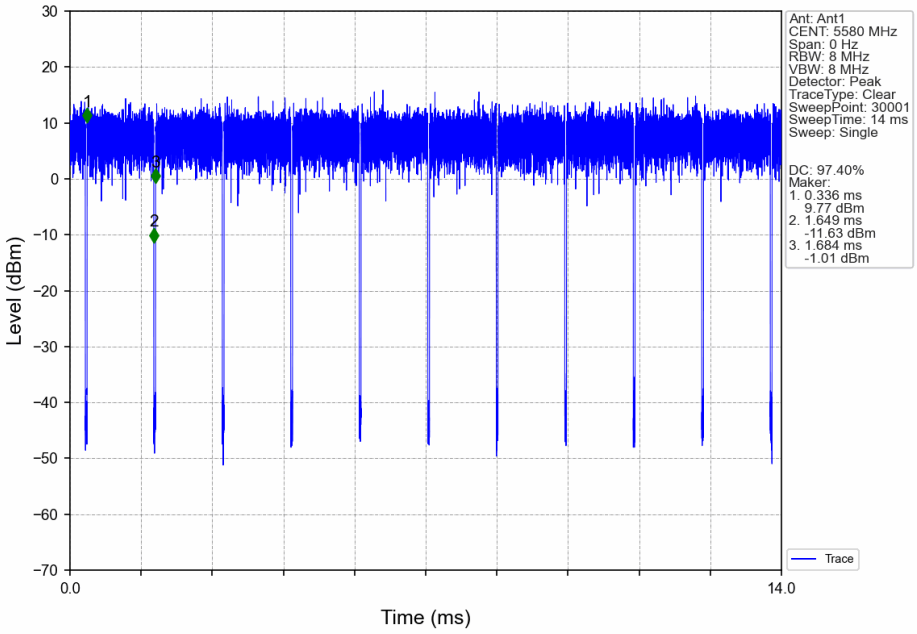


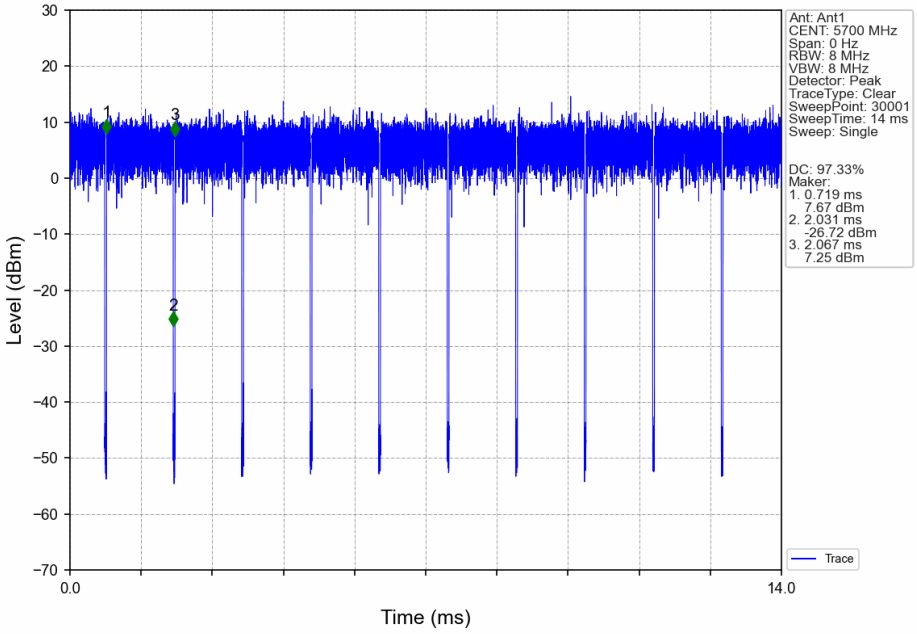
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



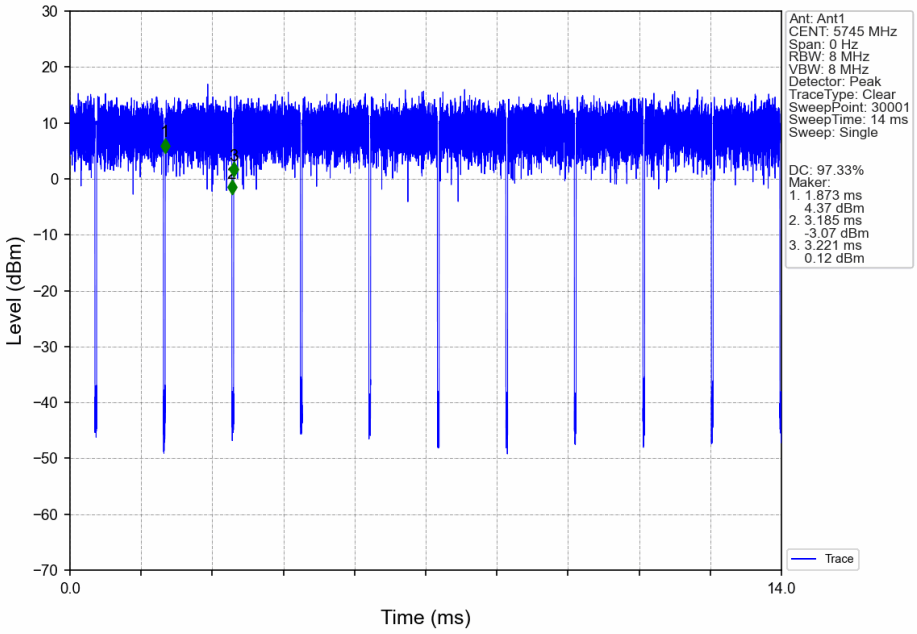
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



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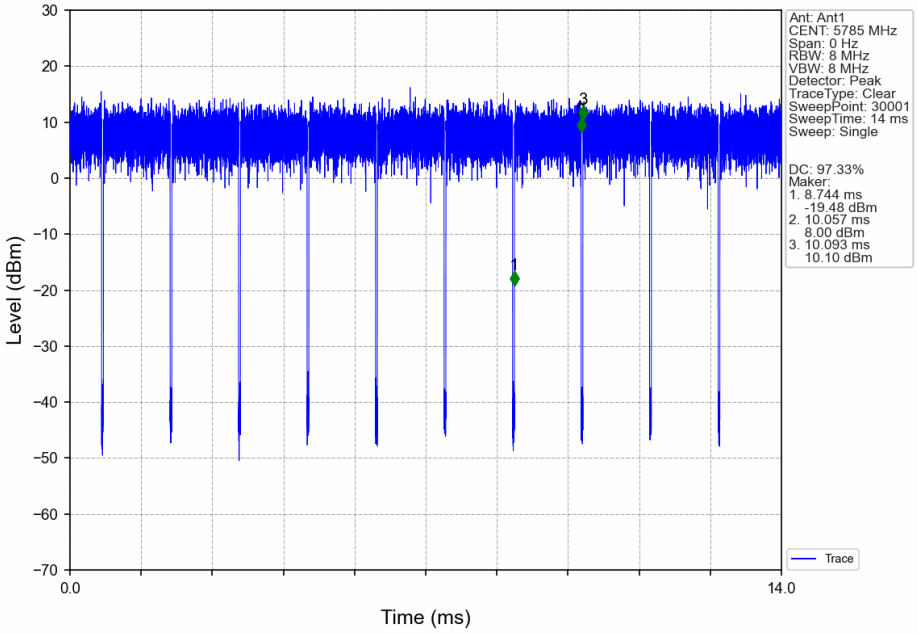
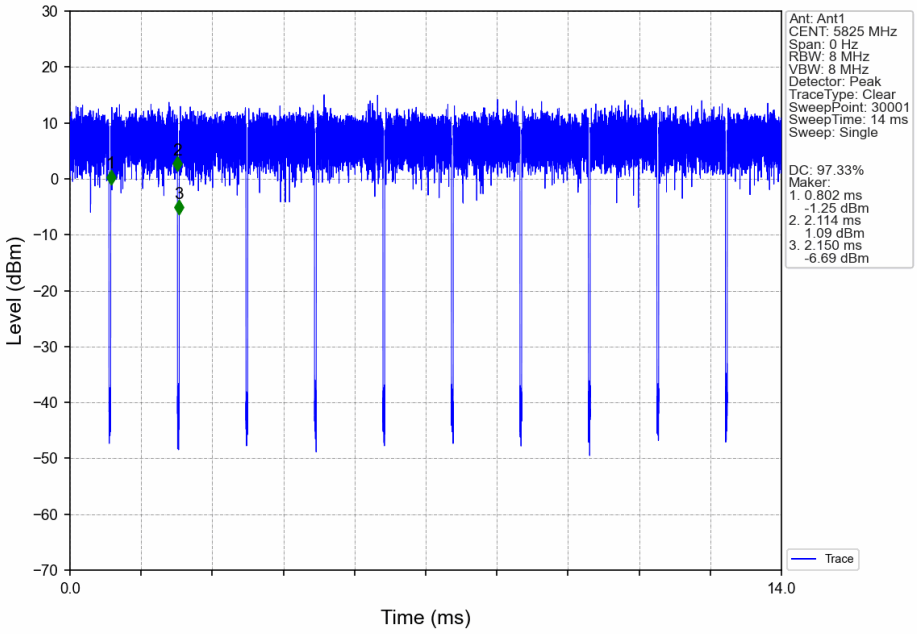
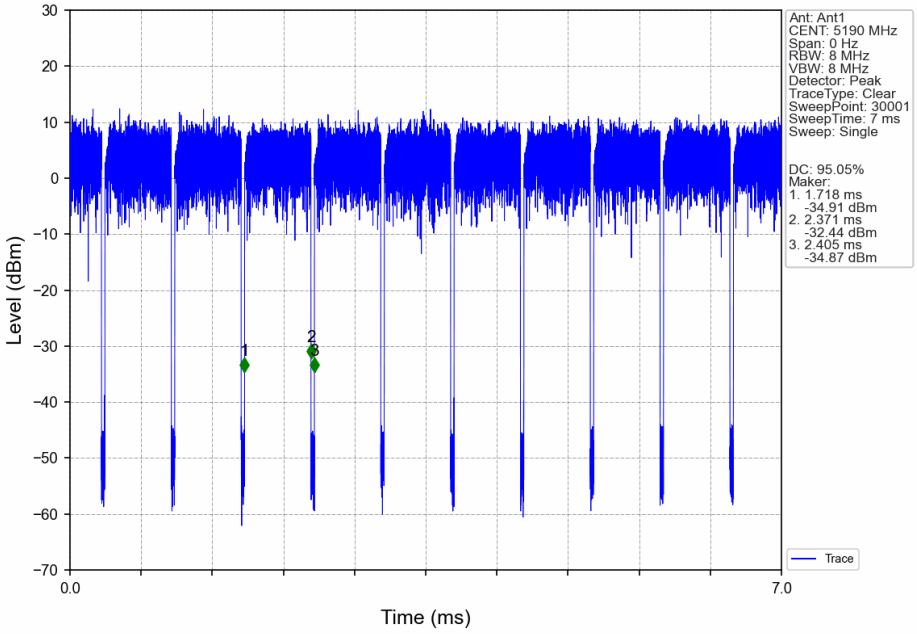


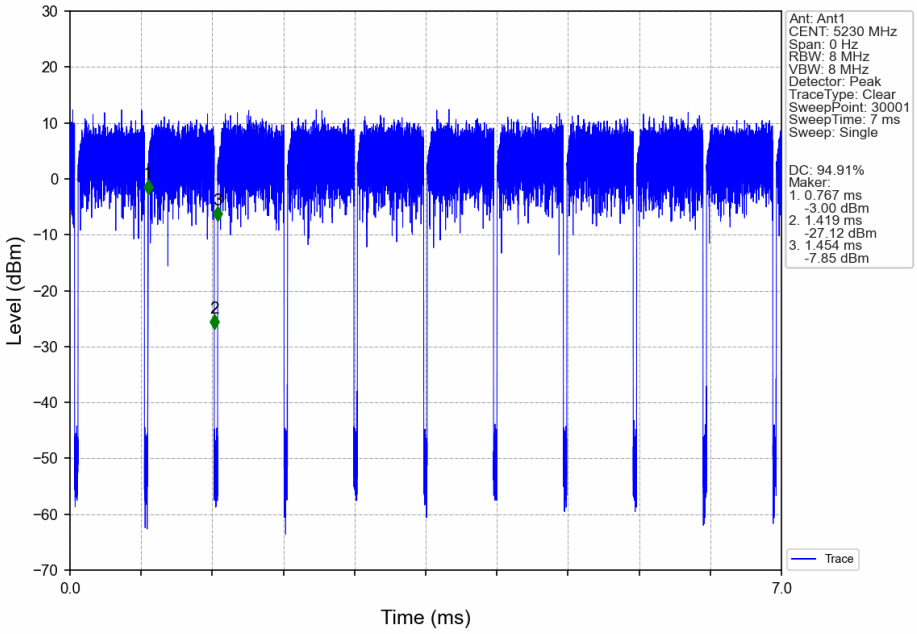
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



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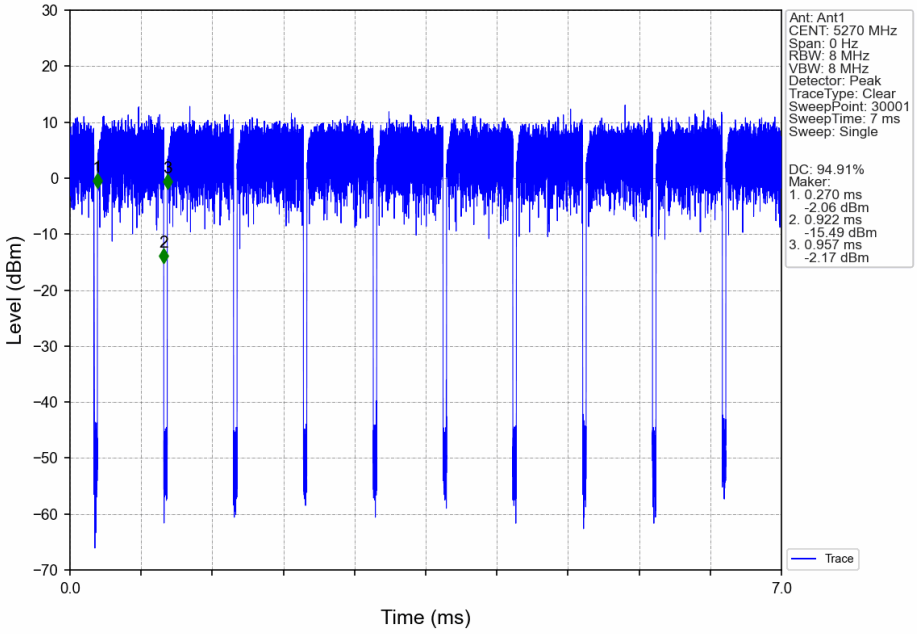
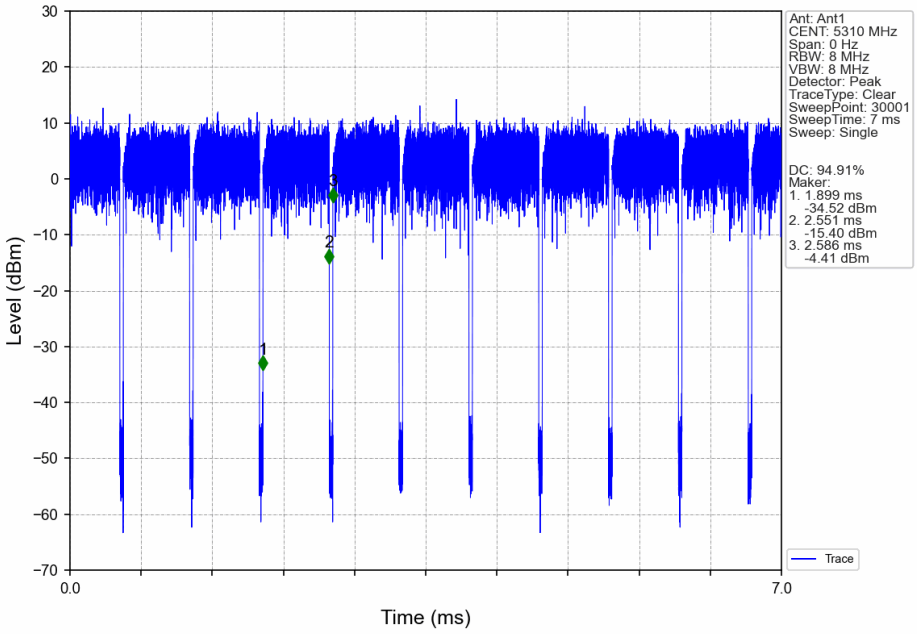
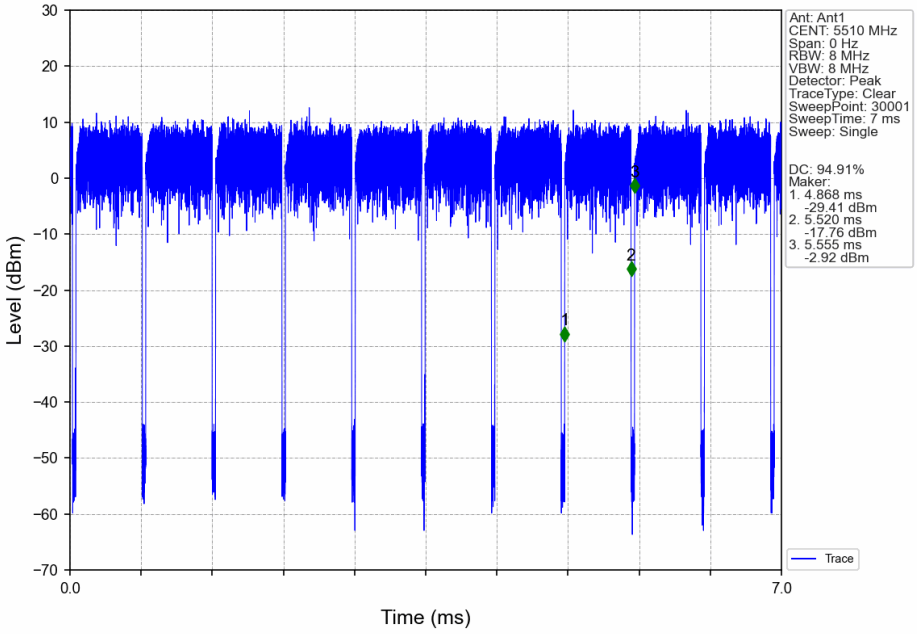


802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



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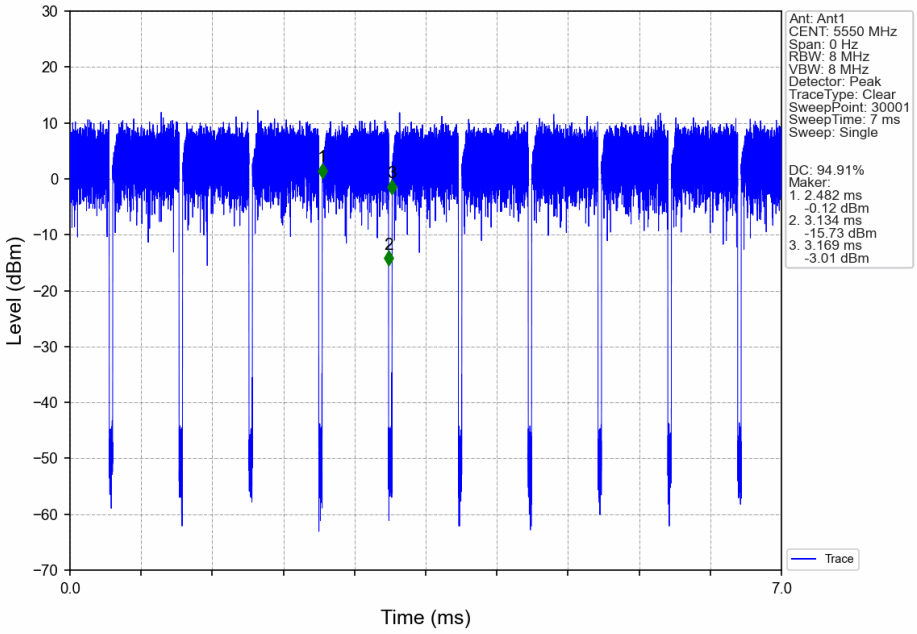
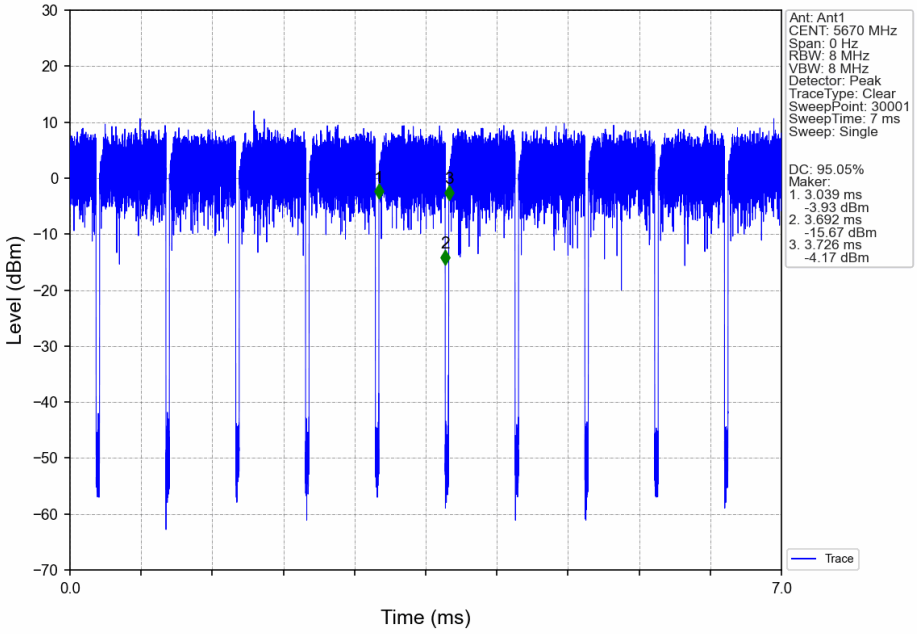
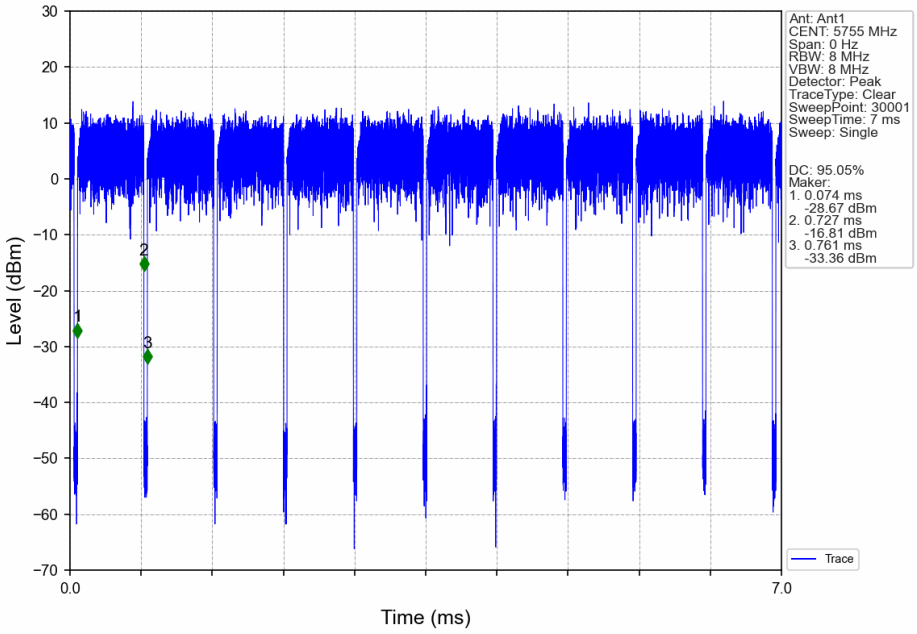


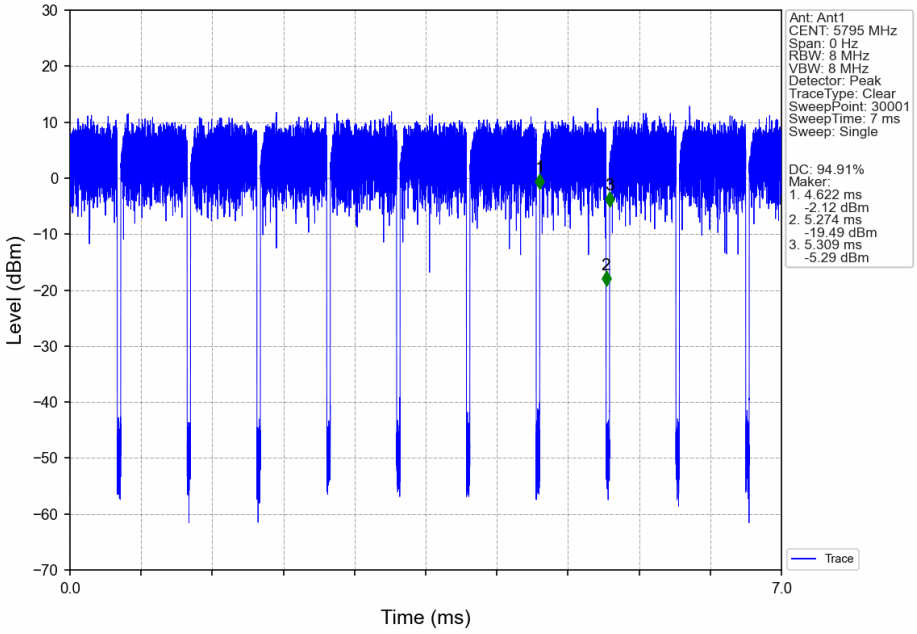
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



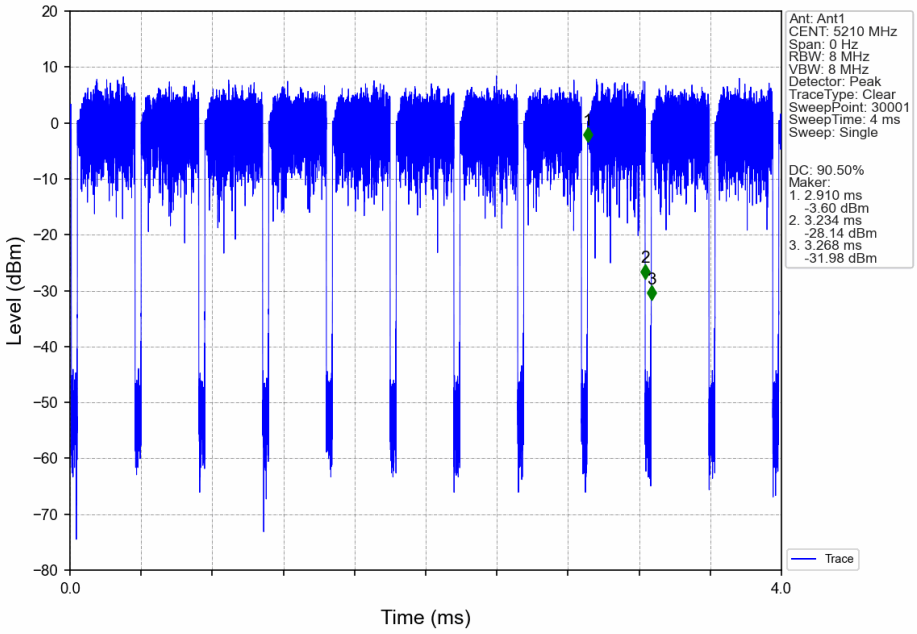
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



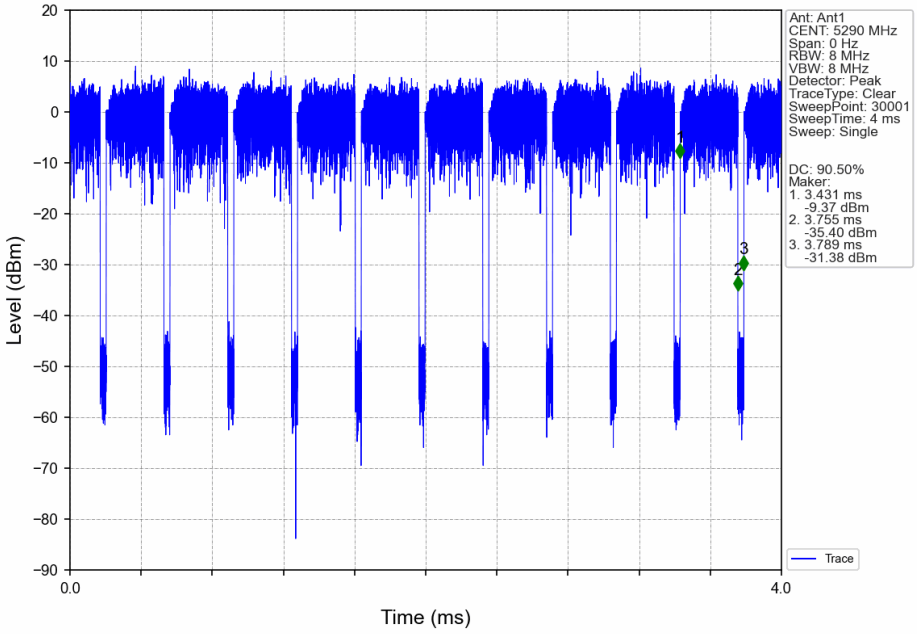
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



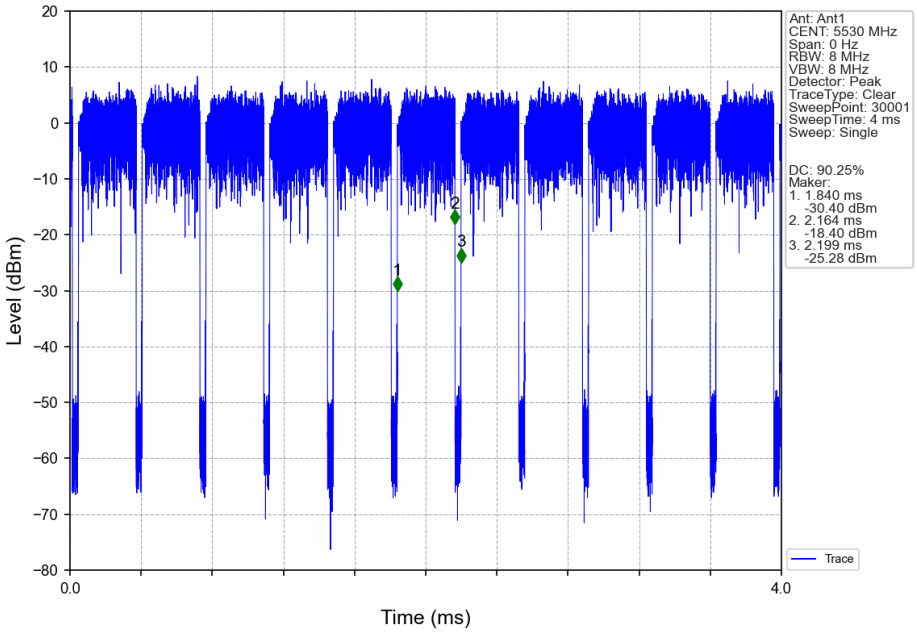
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



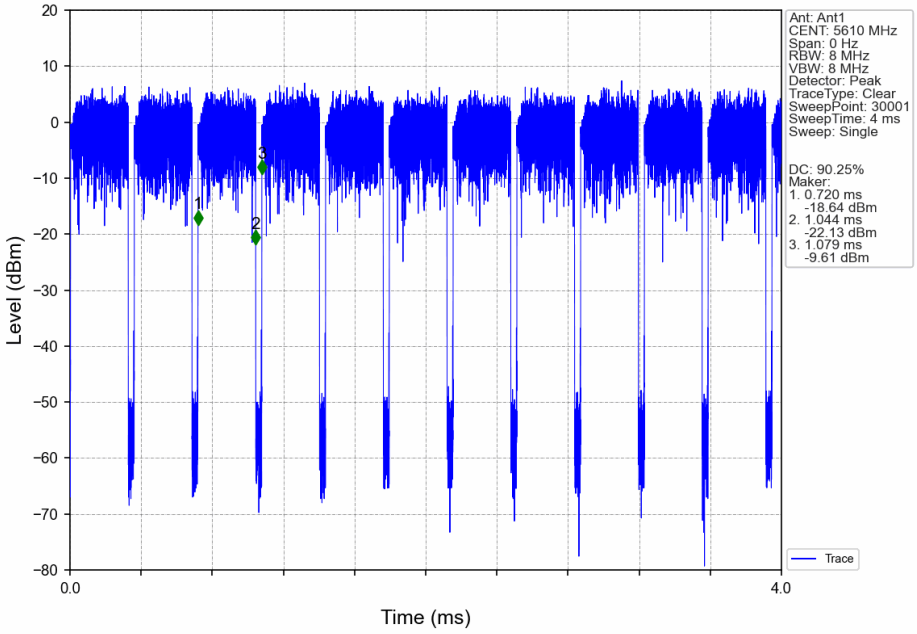
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



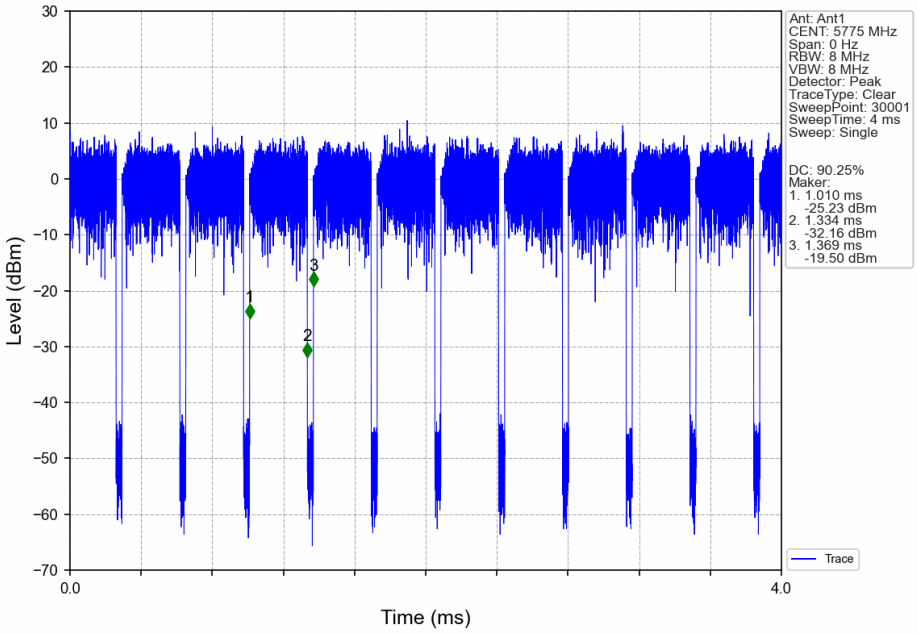
802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	16.435	/	Pass
		5200	1	16.374	/	Pass
		5240	1	16.415	/	Pass
		5260	1	16.418	/	Pass
		5300	1	16.395	/	Pass
		5320	1	16.415	/	Pass
		5500	1	16.405	/	Pass
		5580	1	16.413	/	Pass
		5700	1	16.475	/	Pass
		5745	1	16.439	/	Pass
		5785	1	16.439	/	Pass
		5825	1	16.446	/	Pass
802.11n (HT20)	SISO	5180	1	17.584	/	Pass
		5200	1	17.589	/	Pass
		5240	1	17.556	/	Pass
		5260	1	17.577	/	Pass
		5300	1	17.556	/	Pass
		5320	1	17.574	/	Pass
		5500	1	17.545	/	Pass
		5580	1	17.588	/	Pass
		5700	1	17.591	/	Pass
		5745	1	17.634	/	Pass
		5785	1	17.614	/	Pass
		5825	1	17.592	/	Pass
802.11n (HT40)	SISO	5190	1	36.307	/	Pass
		5230	1	36.322	/	Pass
		5270	1	36.339	/	Pass
		5310	1	36.358	/	Pass
		5510	1	36.060	/	Pass
		5550	1	36.161	/	Pass
		5670	1	36.197	/	Pass
		5755	1	36.315	/	Pass
		5795	1	36.331	/	Pass
802.11ac (VHT20)	SISO	5180	1	17.572	/	Pass
		5200	1	17.578	/	Pass
		5240	1	17.577	/	Pass
		5260	1	17.590	/	Pass
		5300	1	17.560	/	Pass
		5320	1	17.601	/	Pass
		5500	1	17.555	/	Pass
		5580	1	17.543	/	Pass
		5700	1	17.593	/	Pass
		5745	1	17.637	/	Pass
		5785	1	17.608	/	Pass
		5825	1	17.591	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.200	/	Pass
		5230	1	36.152	/	Pass

		5270	1	36.129	/	Pass
		5310	1	36.190	/	Pass
		5510	1	36.073	/	Pass
		5550	1	36.095	/	Pass
		5670	1	36.160	/	Pass
		5755	1	36.071	/	Pass
		5795	1	36.277	/	Pass
802.11ac (VHT80)	SISO	5210	1	75.288	/	Pass
		5290	1	75.186	/	Pass
		5530	1	75.111	/	Pass
		5610	1	75.197	/	Pass
		5775	1	75.151	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	19.527	/	Pass
		5200	1	19.741	/	Pass
		5240	1	19.859	/	Pass
		5260	1	19.743	/	Pass
		5300	1	19.806	/	Pass
		5320	1	19.696	/	Pass
		5500	1	19.765	/	Pass
		5580	1	19.640	/	Pass
		5700	1	19.825	/	Pass
802.11n (HT20)	SISO	5180	1	20.463	/	Pass
		5200	1	20.368	/	Pass
		5240	1	20.284	/	Pass
		5260	1	21.032	/	Pass
		5300	1	20.323	/	Pass
		5320	1	20.456	/	Pass
		5500	1	20.254	/	Pass
		5580	1	19.945	/	Pass
		5700	1	21.100	/	Pass
802.11n (HT40)	SISO	5190	1	67.329	/	Pass
		5230	1	66.009	/	Pass
		5270	1	65.416	/	Pass
		5310	1	52.502	/	Pass
		5510	1	41.055	/	Pass
		5550	1	41.324	/	Pass
		5670	1	41.229	/	Pass
802.11ac (VHT20)	SISO	5180	1	20.312	/	Pass
		5200	1	20.270	/	Pass
		5240	1	19.996	/	Pass
		5260	1	20.374	/	Pass
		5300	1	19.987	/	Pass
		5320	1	20.357	/	Pass
		5500	1	20.226	/	Pass
		5580	1	20.647	/	Pass
		5700	1	19.971	/	Pass
802.11ac (VHT40)	SISO	5190	1	41.254	/	Pass
		5230	1	45.128	/	Pass
		5270	1	41.048	/	Pass
		5310	1	41.047	/	Pass
		5510	1	41.016	/	Pass
		5550	1	41.278	/	Pass
		5670	1	40.847	/	Pass

802.11ac (VHT80)	SISO	5210	1	81.052	/	Pass
		5290	1	80.909	/	Pass
		5530	1	80.799	/	Pass
		5610	1	80.355	/	Pass

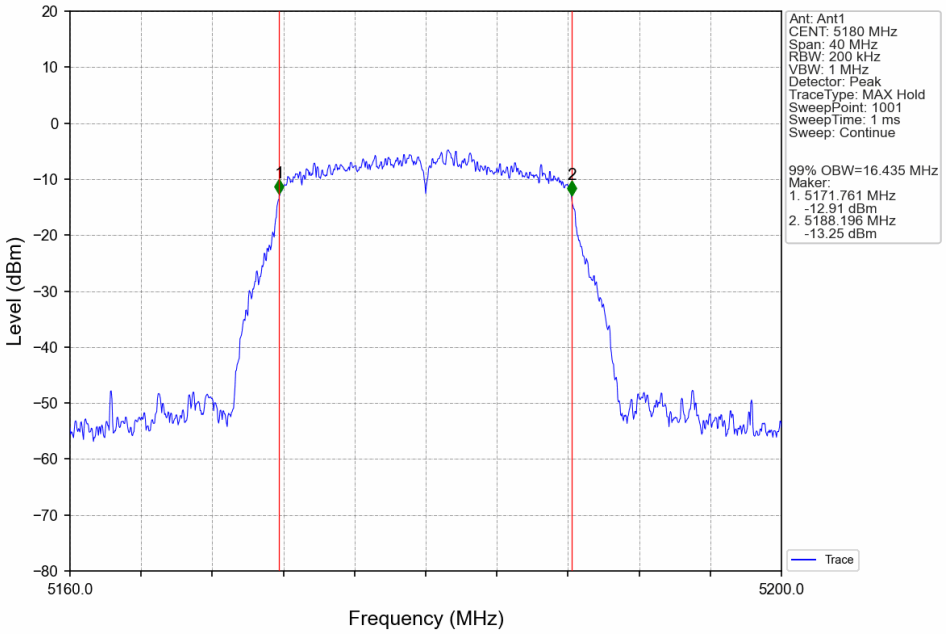
2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.162	>=0.5	Pass
		5785	1	15.703	>=0.5	Pass
		5825	1	13.928	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	15.102	>=0.5	Pass
		5785	1	14.464	>=0.5	Pass
		5825	1	15.025	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	33.878	>=0.5	Pass
		5795	1	35.026	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.170	>=0.5	Pass
		5785	1	15.952	>=0.5	Pass
		5825	1	14.229	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.137	>=0.5	Pass
		5795	1	35.102	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.153	>=0.5	Pass

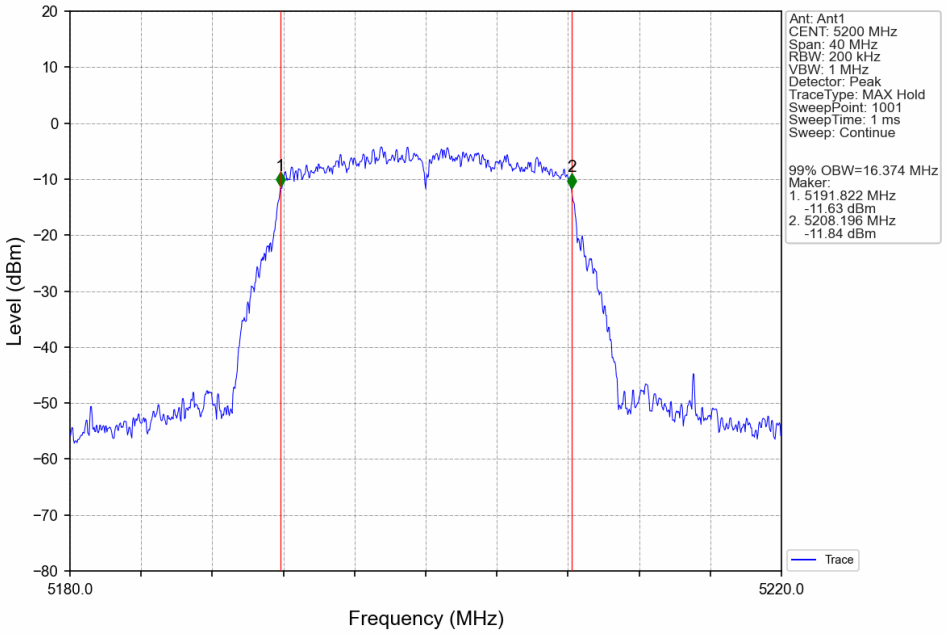
2.2 Test Graph

2.2.1 OBW

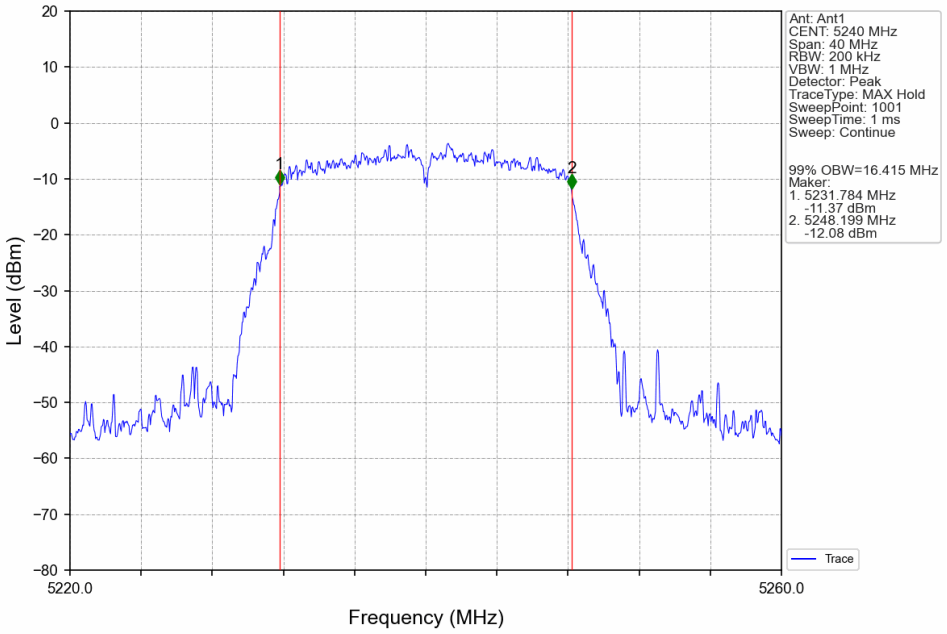
802.11a_LCH_5180MHz_Ant1_NTNV



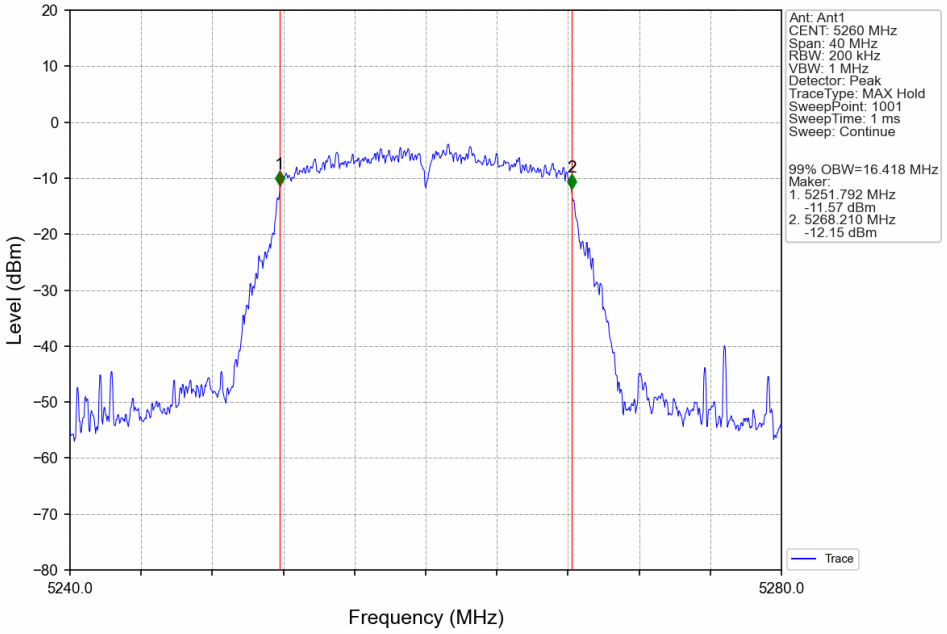
802.11a_MCH_5200MHz_Ant1_NTNV



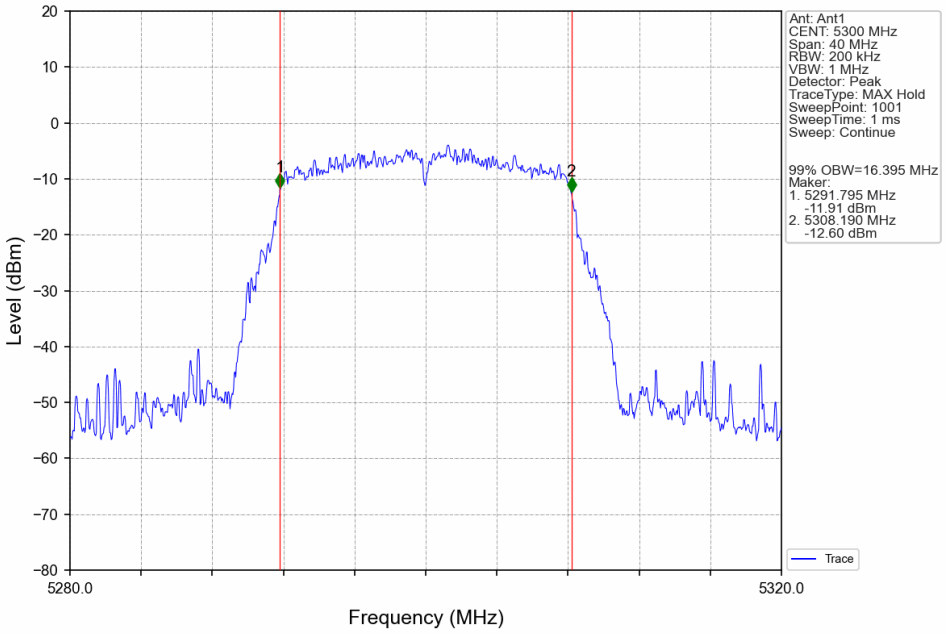
802.11a_HCH_5240MHz_Ant1_NTNV



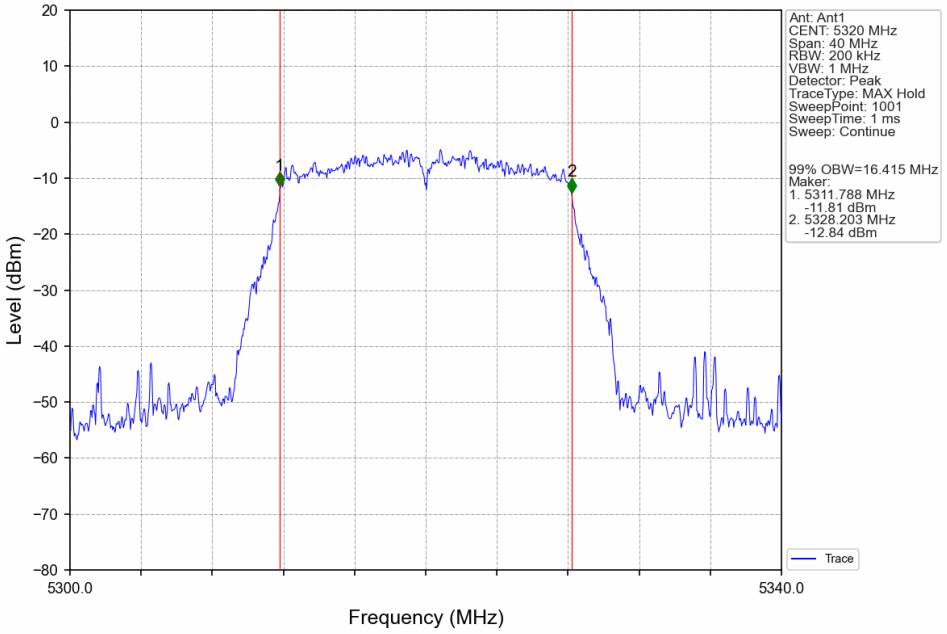
802.11a_LCH_5260MHz_Ant1_NTNV



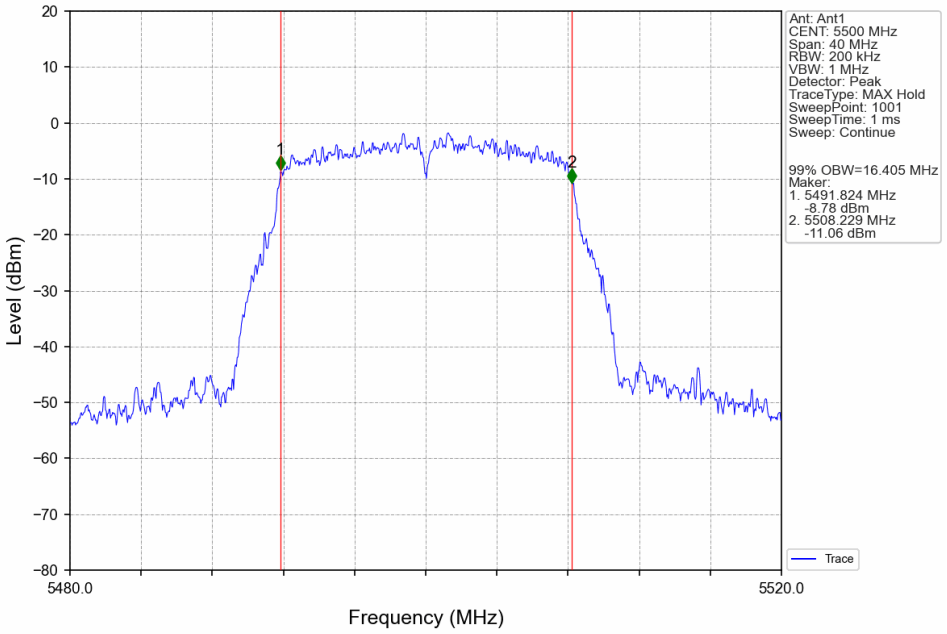
802.11a_MCH_5300MHz_Ant1_NTNV



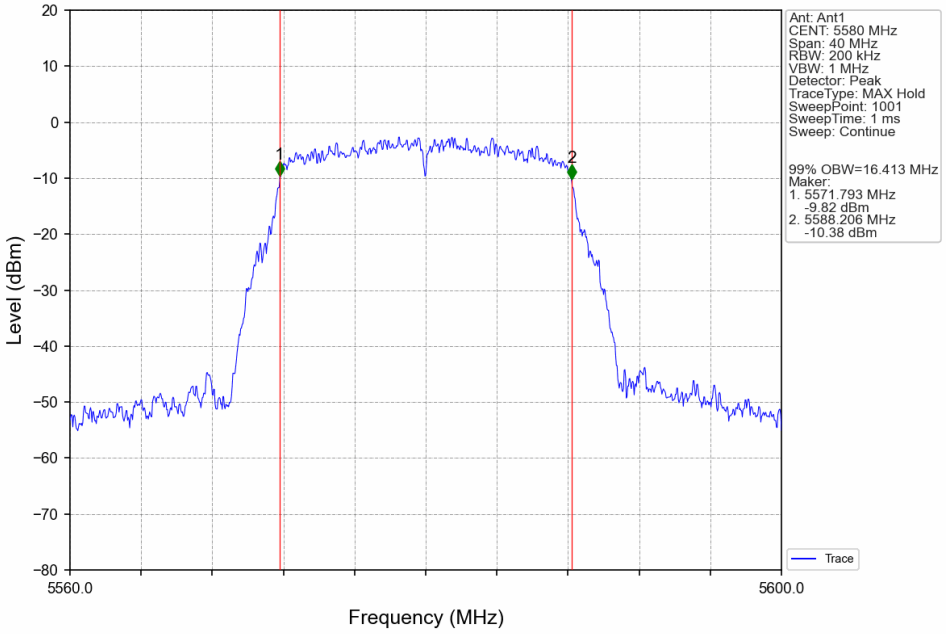
802.11a_HCH_5320MHz_Ant1_NTNV



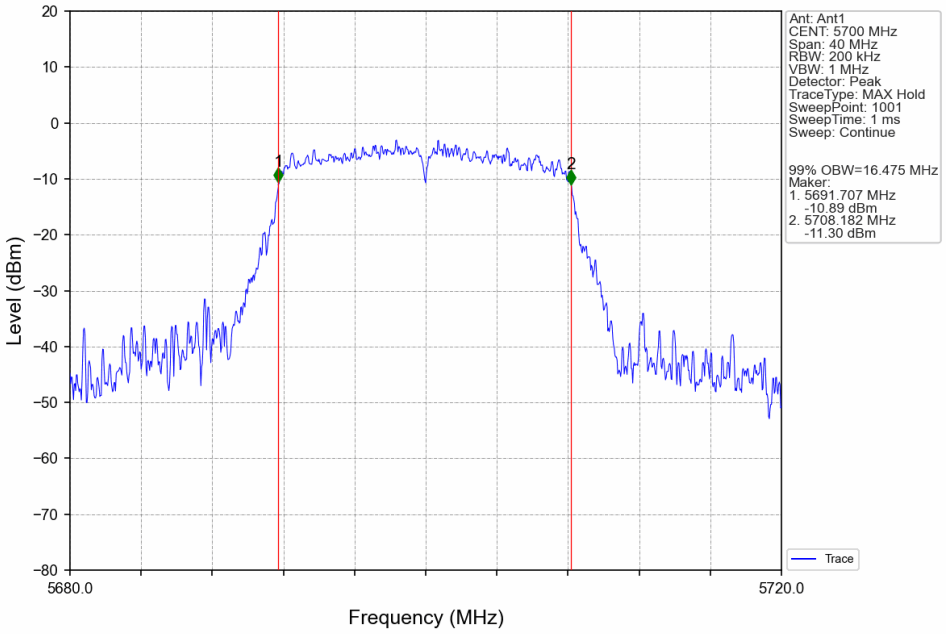
802.11a_LCH_5500MHz_Ant1_NTNV



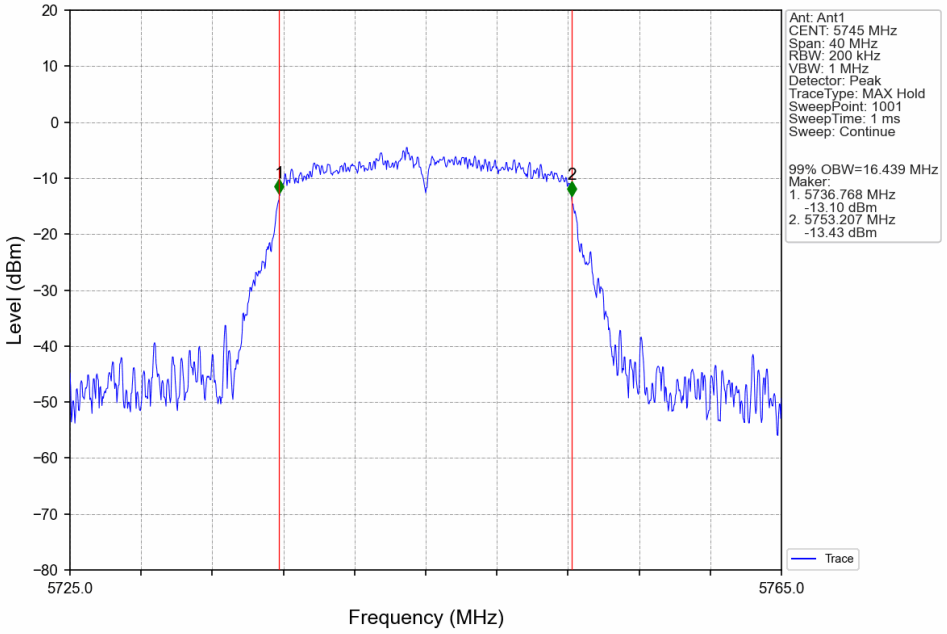
802.11a_MCH_5580MHz_Ant1_NTNV



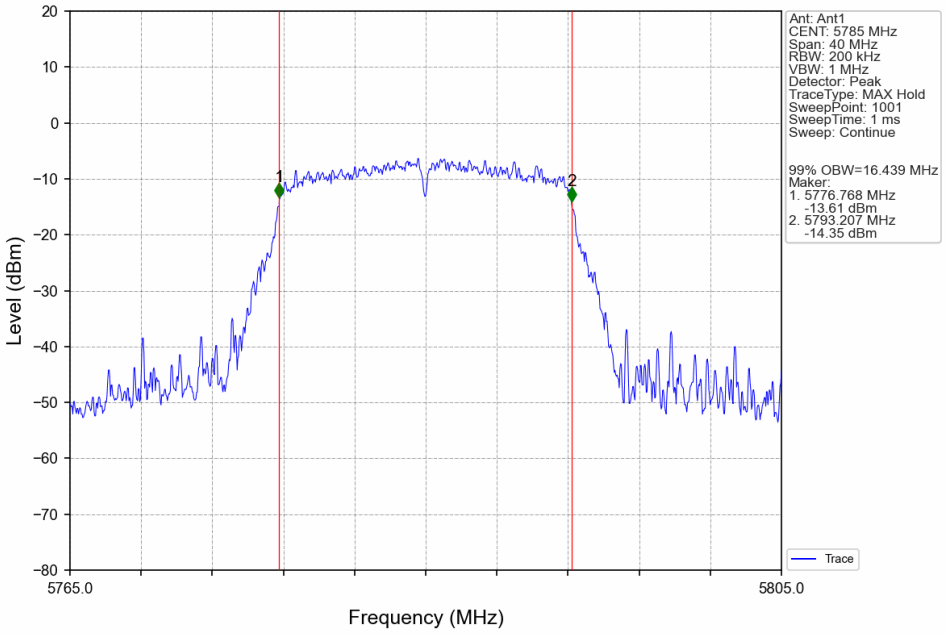
802.11a_HCH_5700MHz_Ant1_NTNV



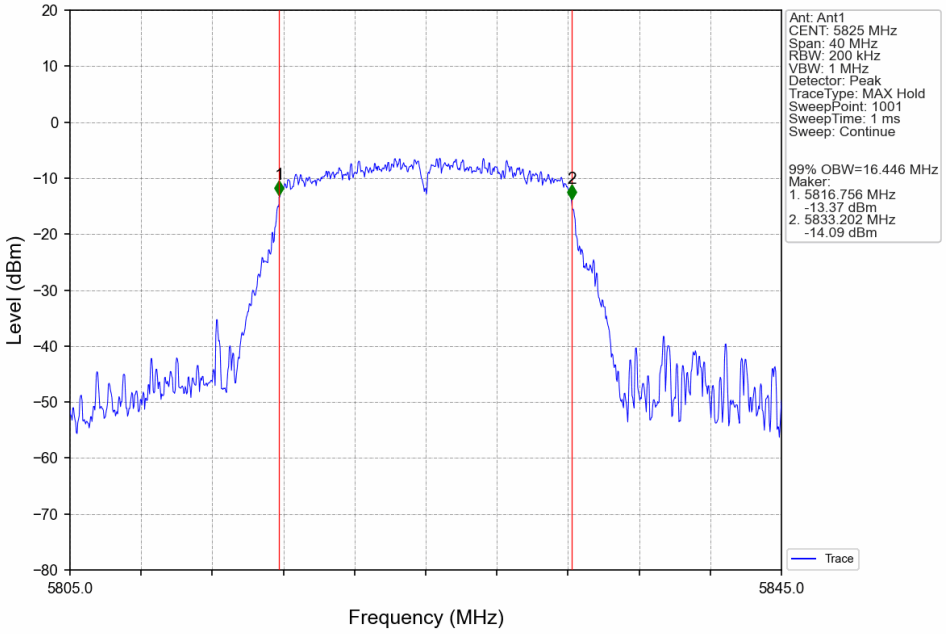
802.11a_LCH_5745MHz_Ant1_NTNV



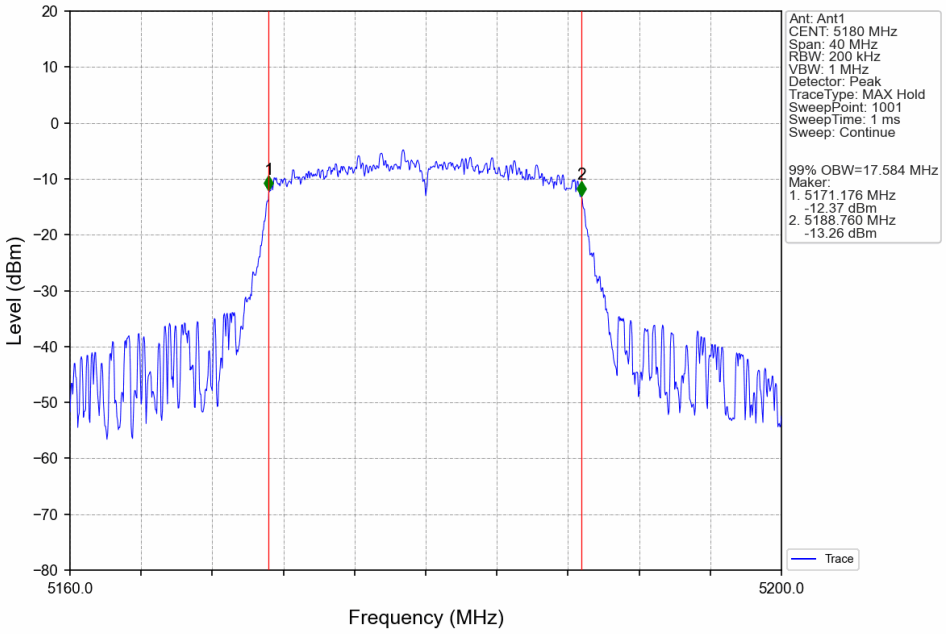
802.11a_MCH_5785MHz_Ant1_NTNV



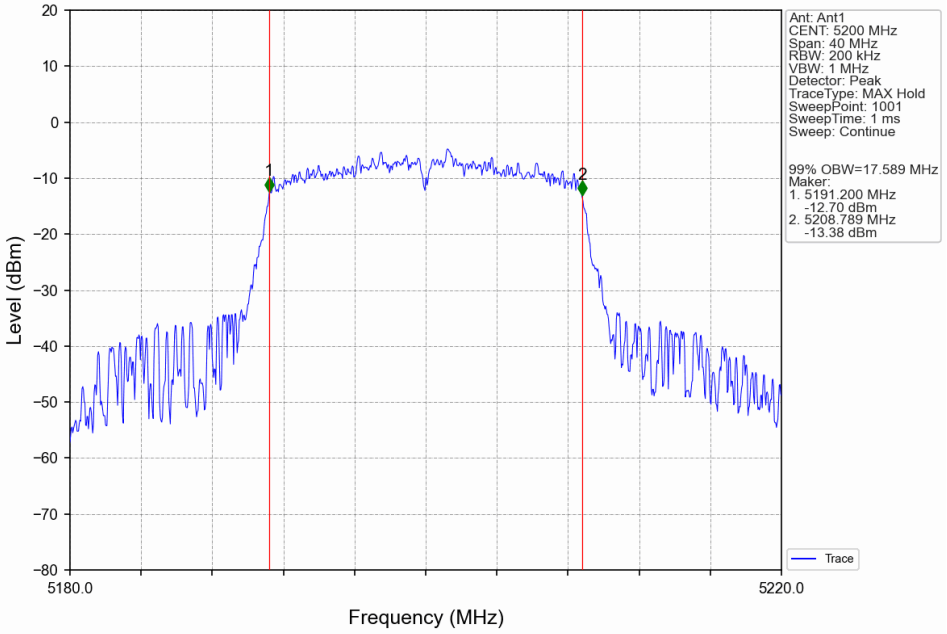
802.11a_HCH_5825MHz_Ant1_NTNV



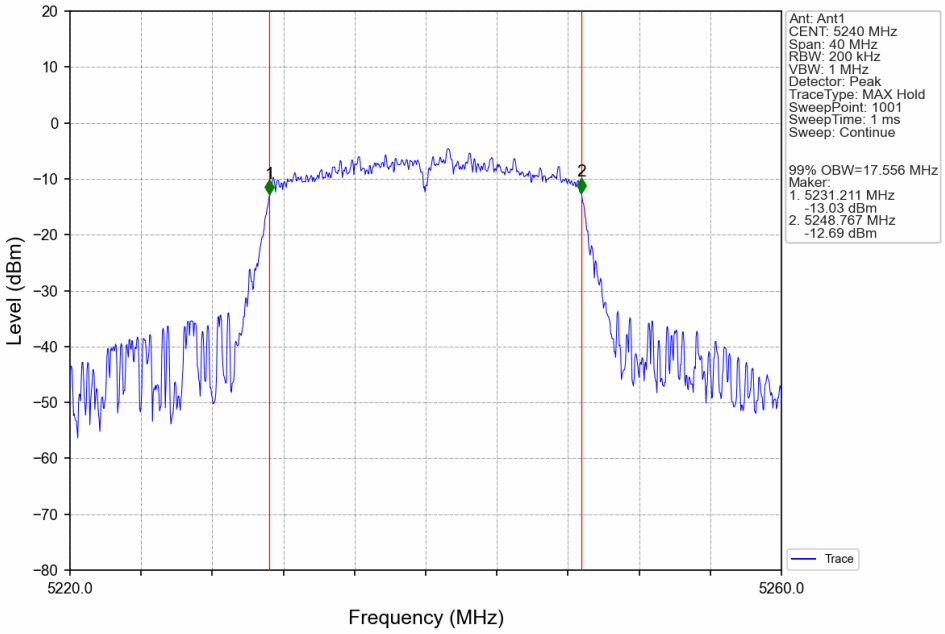
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



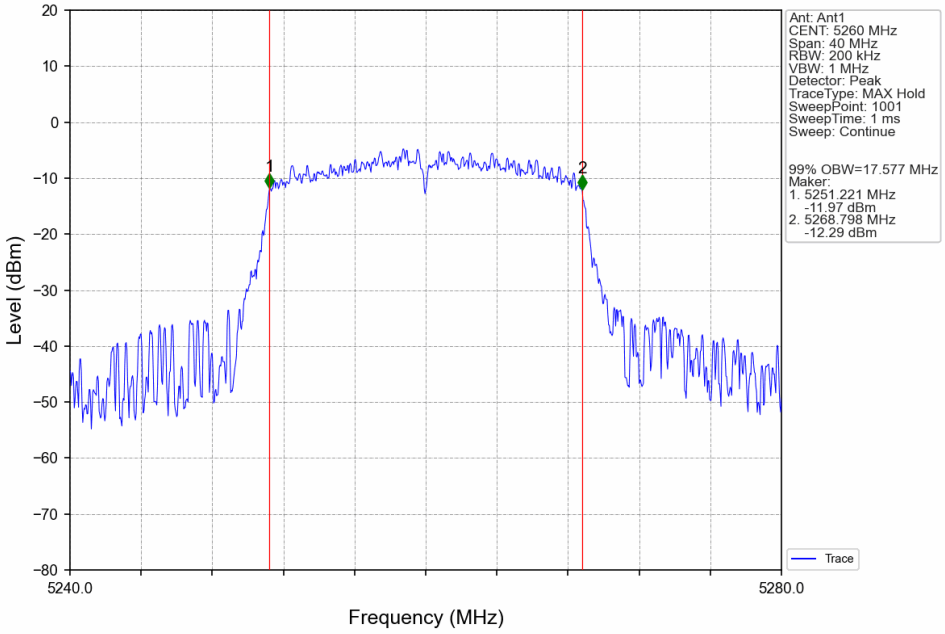
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



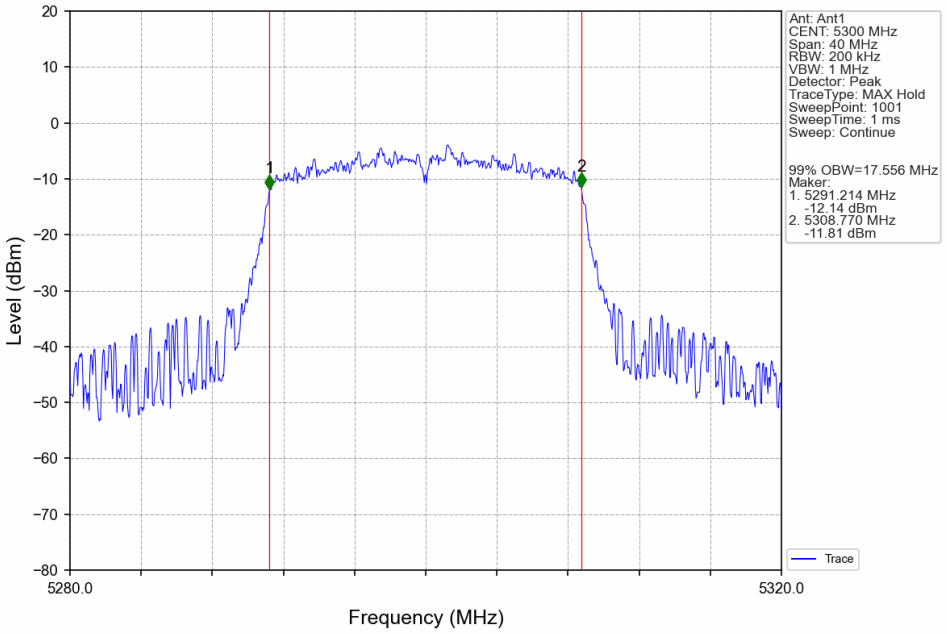
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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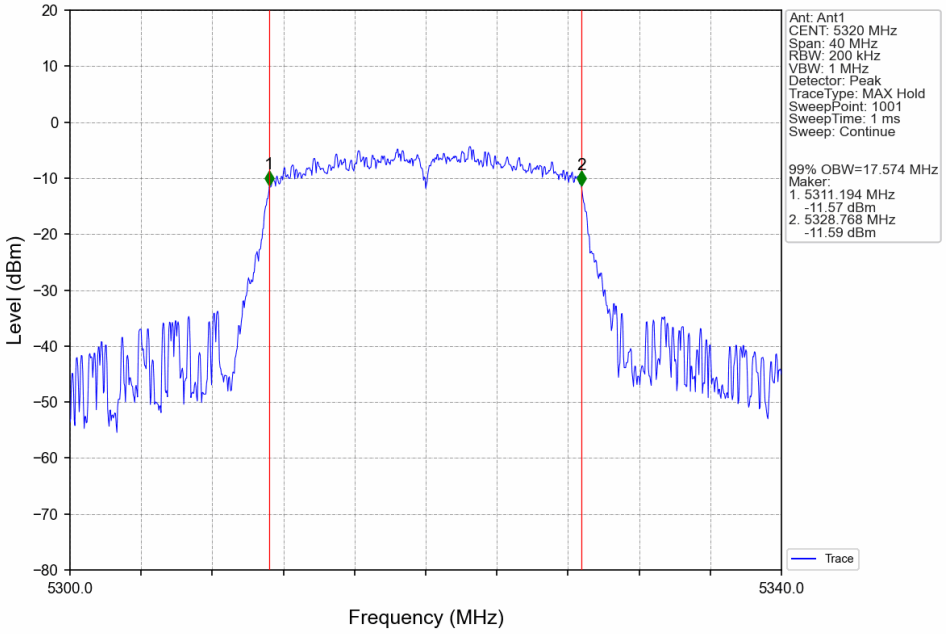

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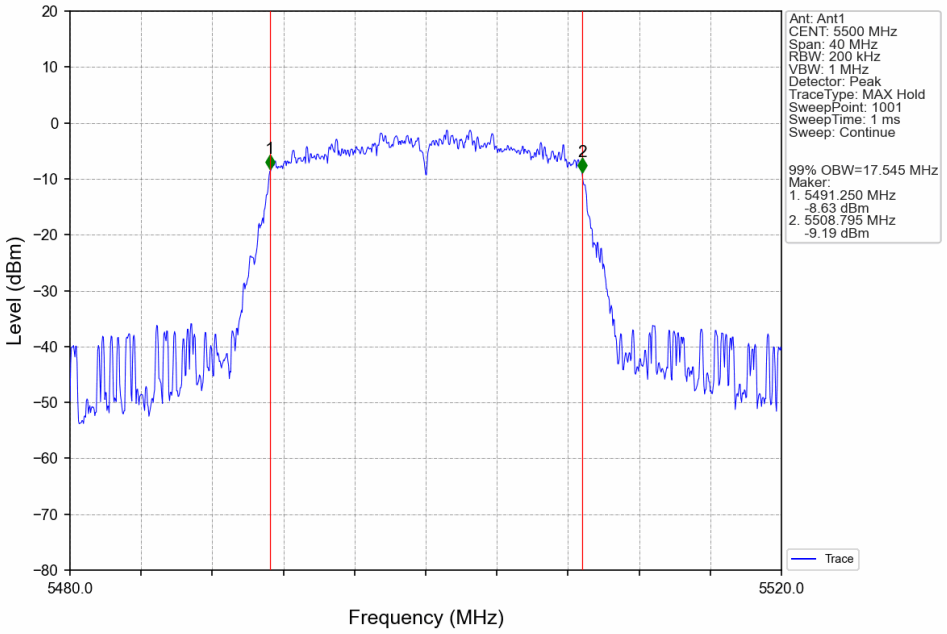

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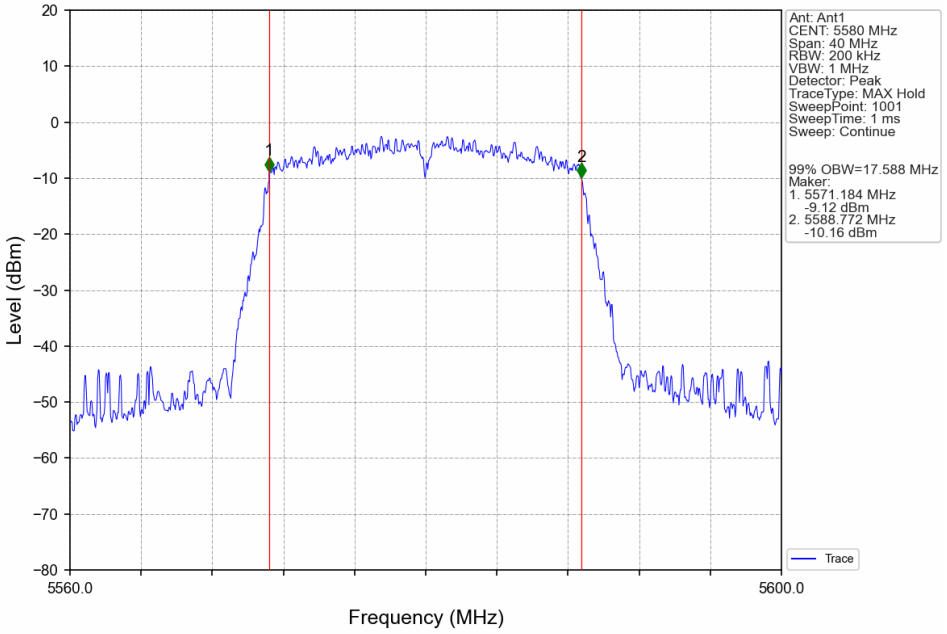
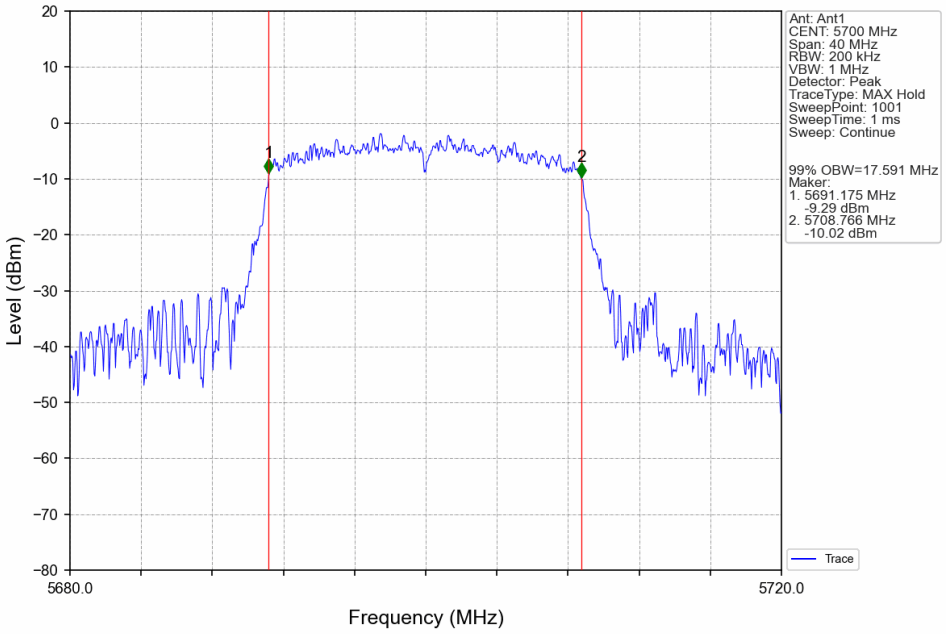


802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



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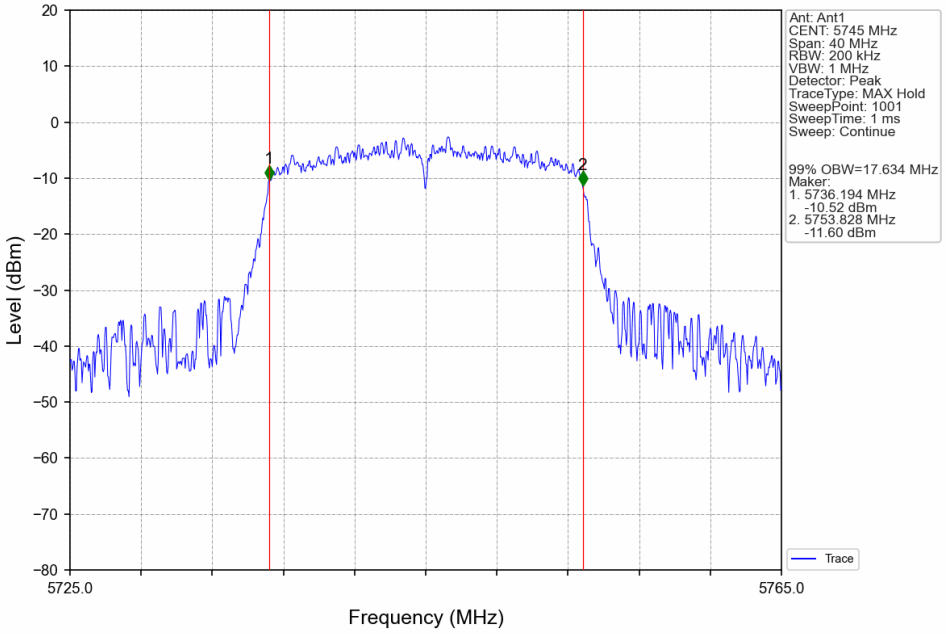

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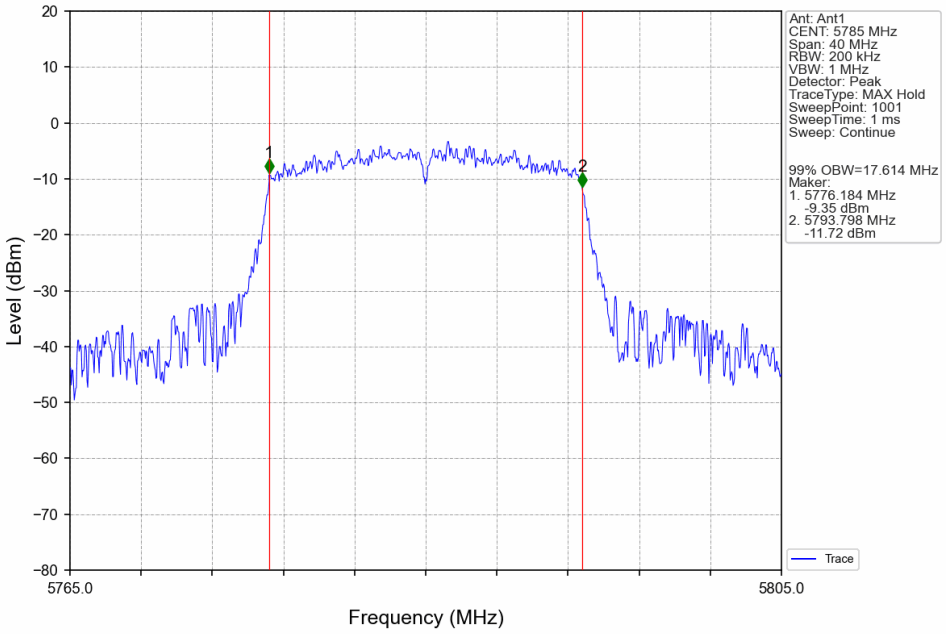

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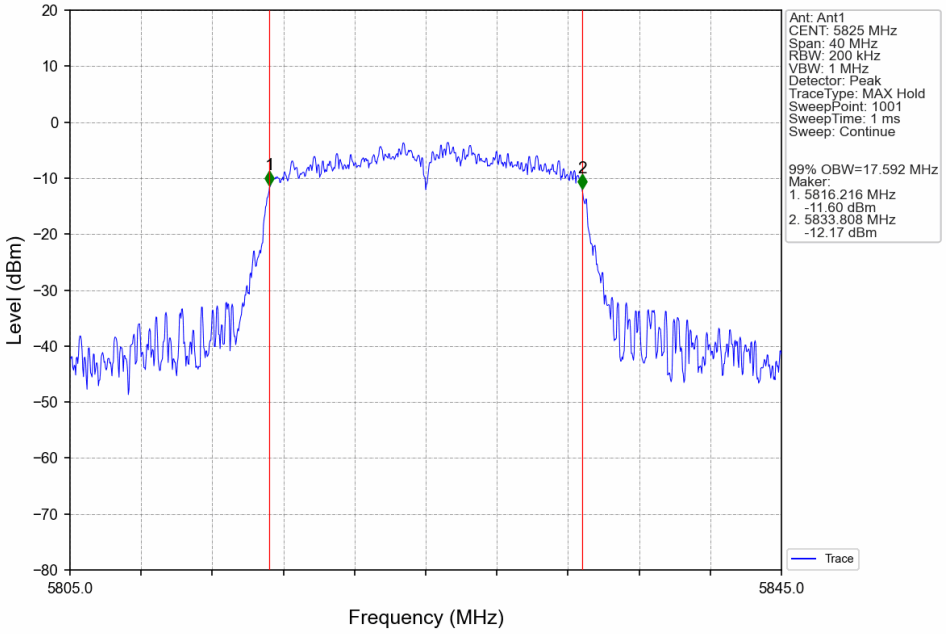
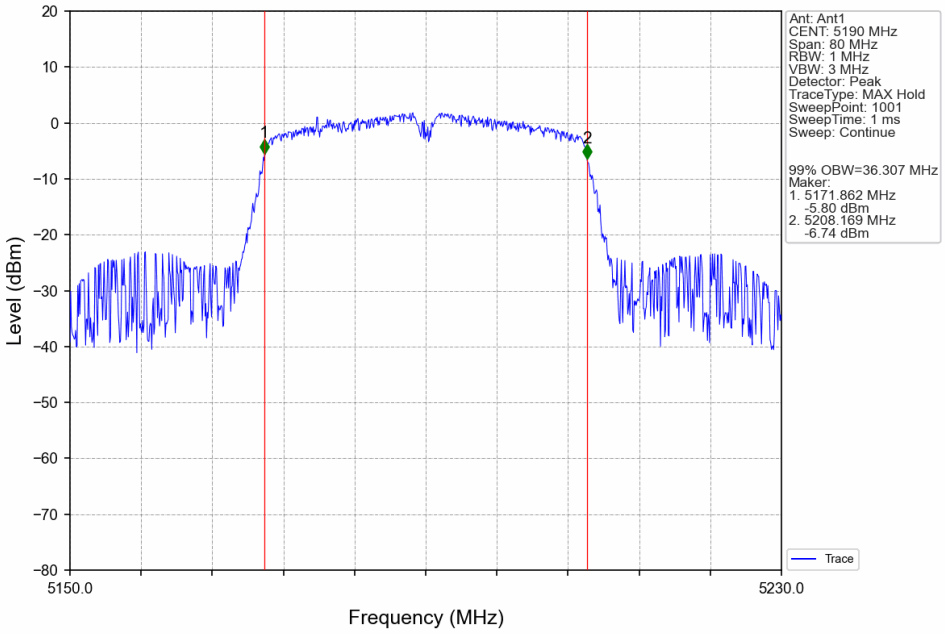


802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



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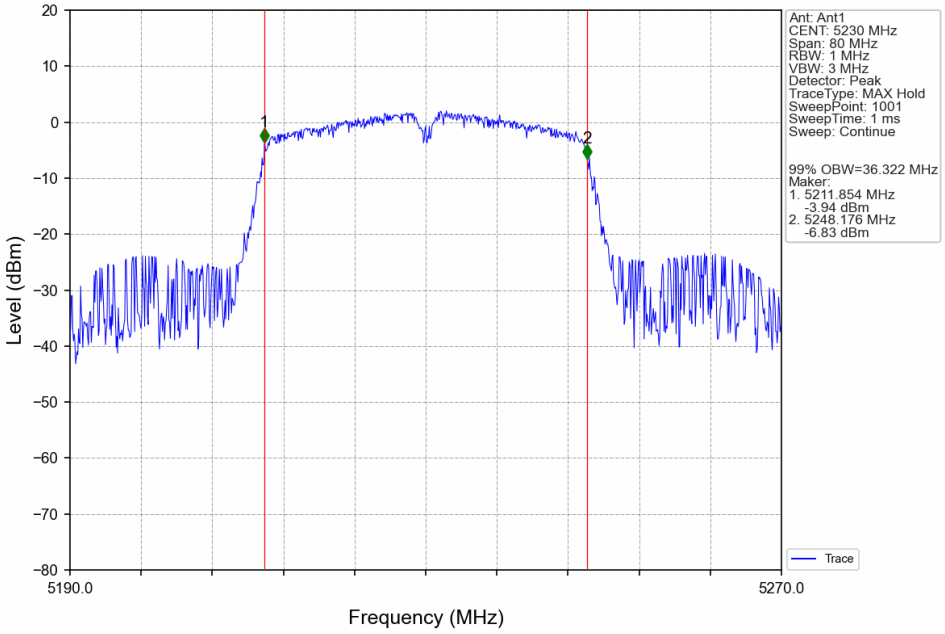

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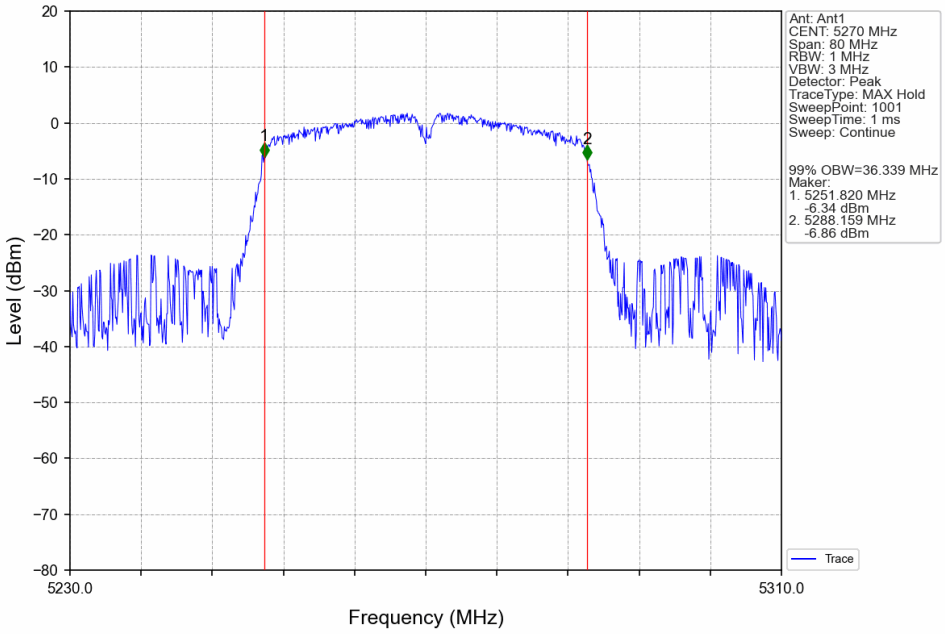

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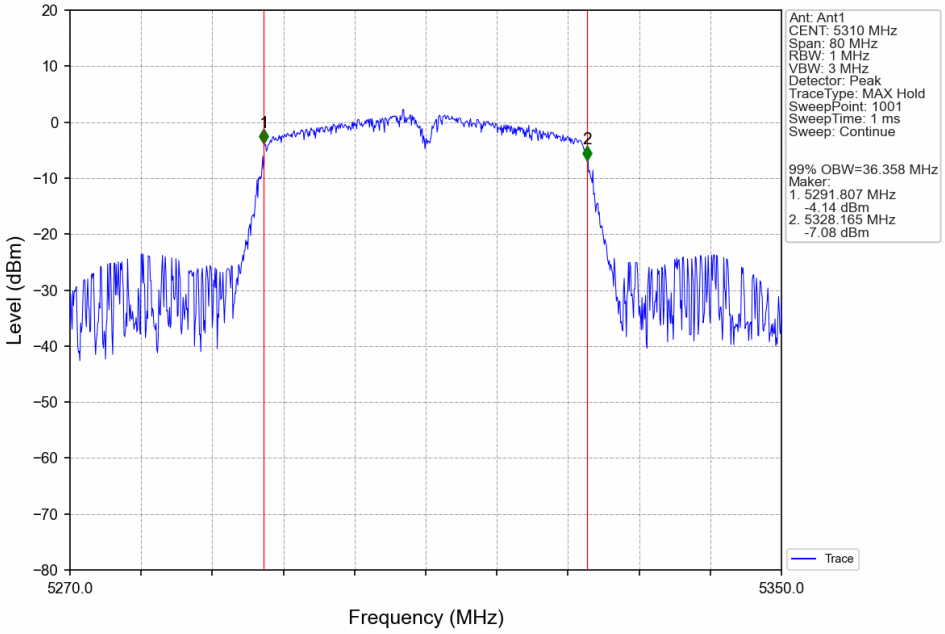
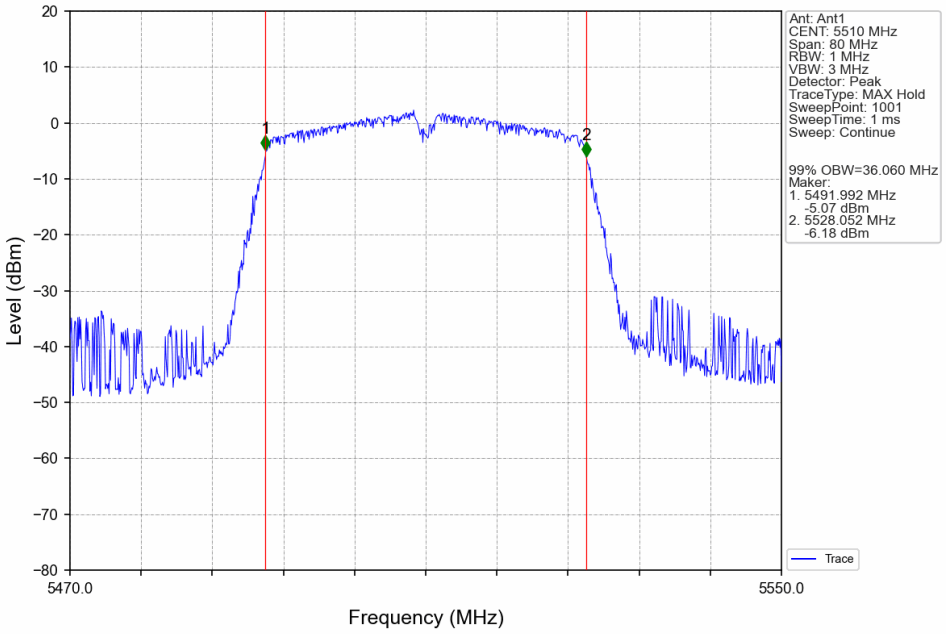


802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



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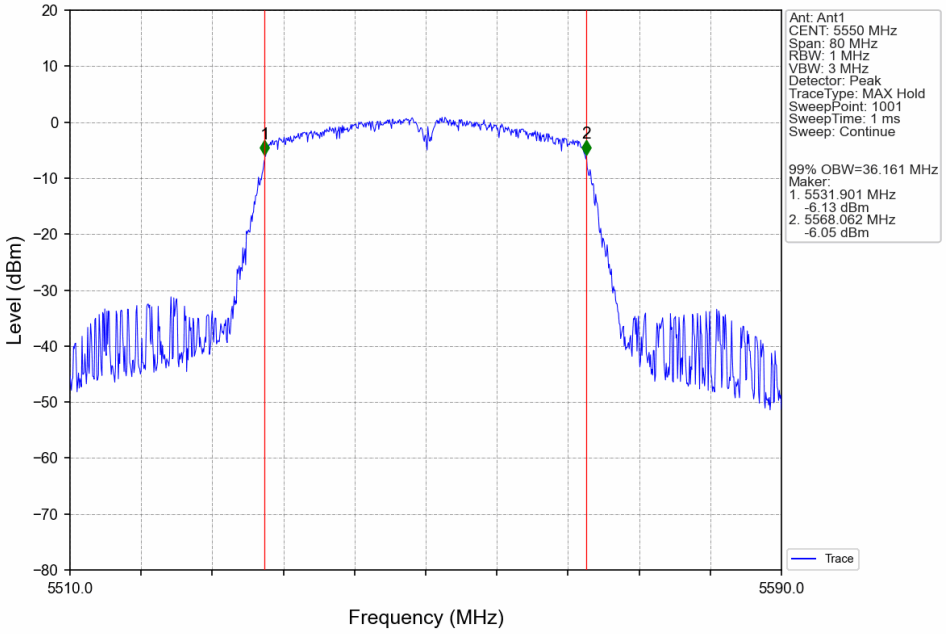

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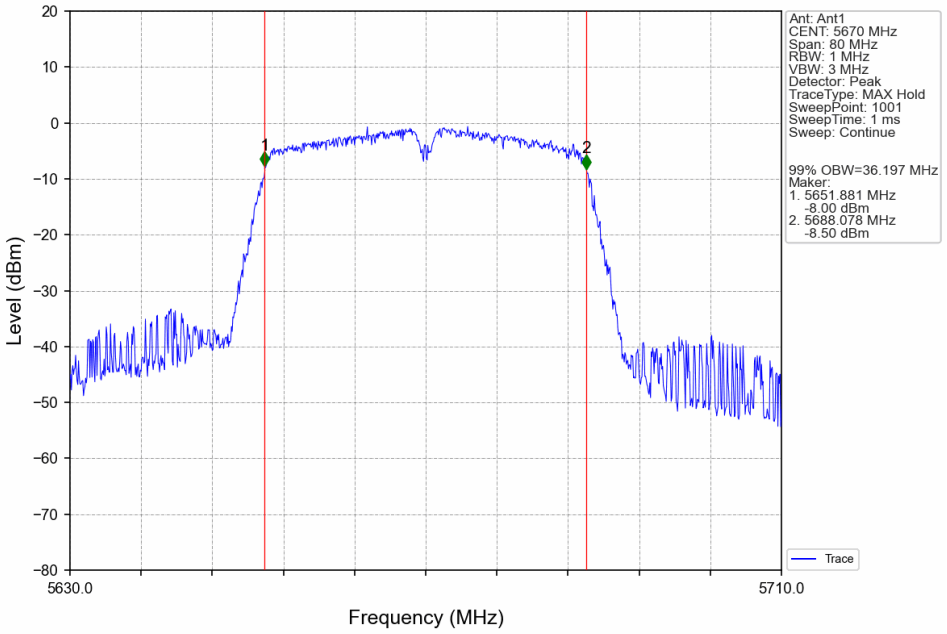

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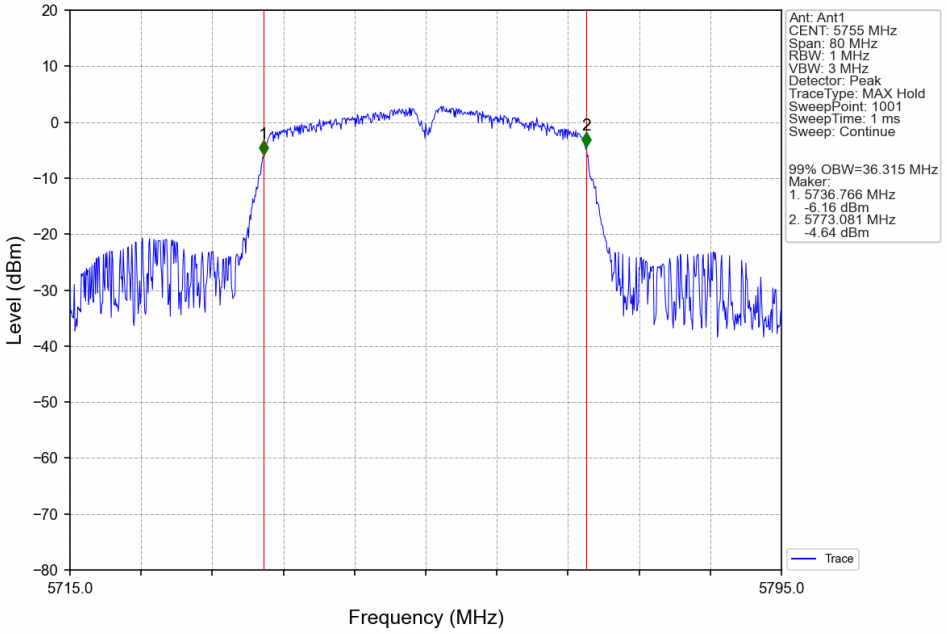

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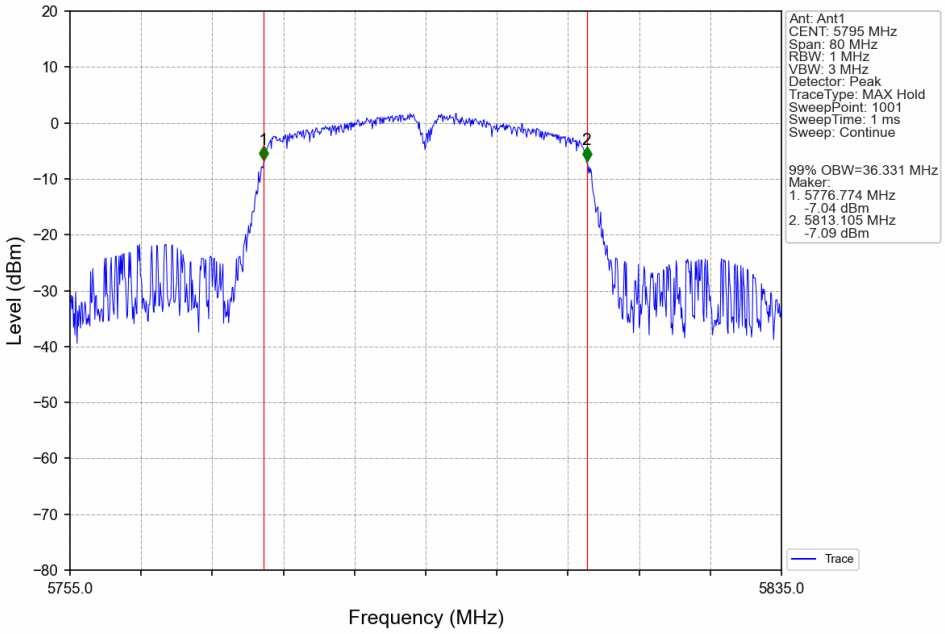
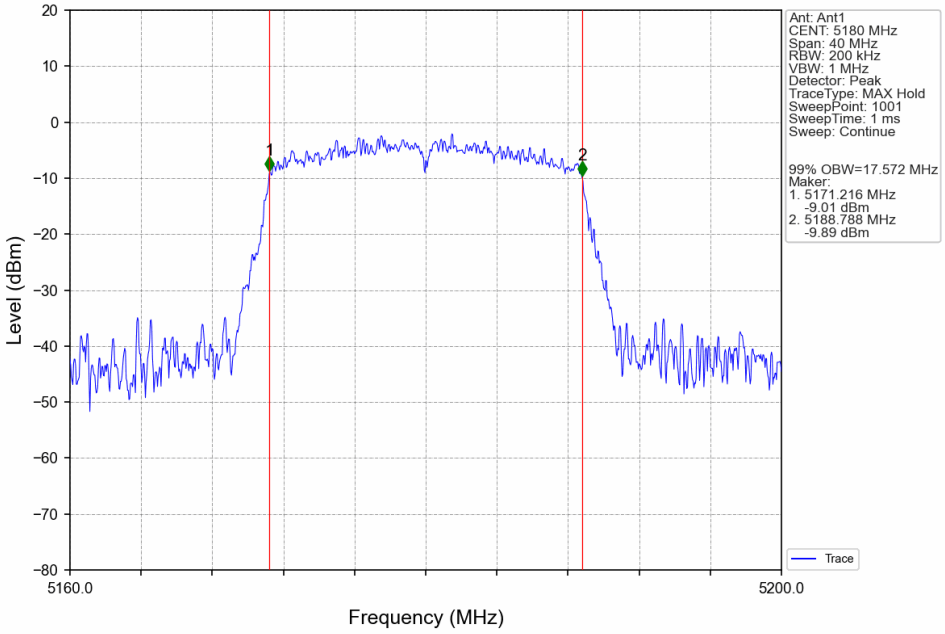
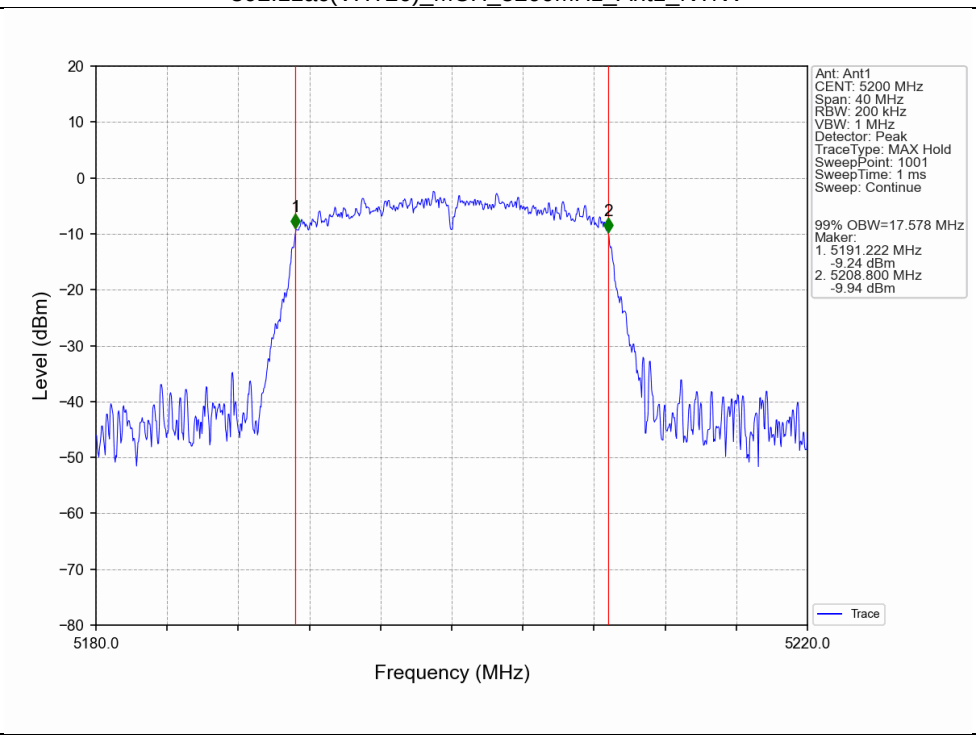


802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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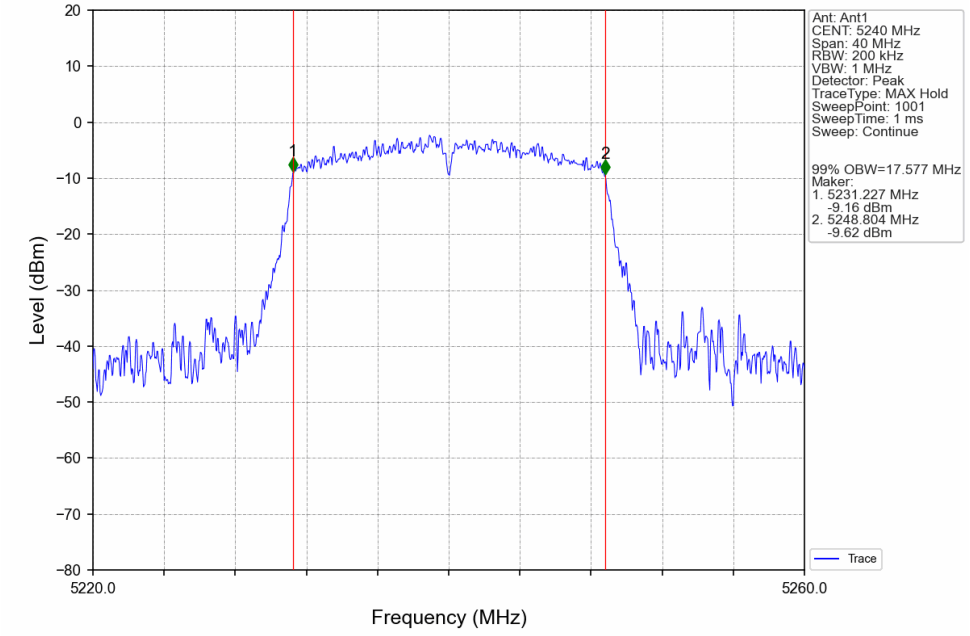
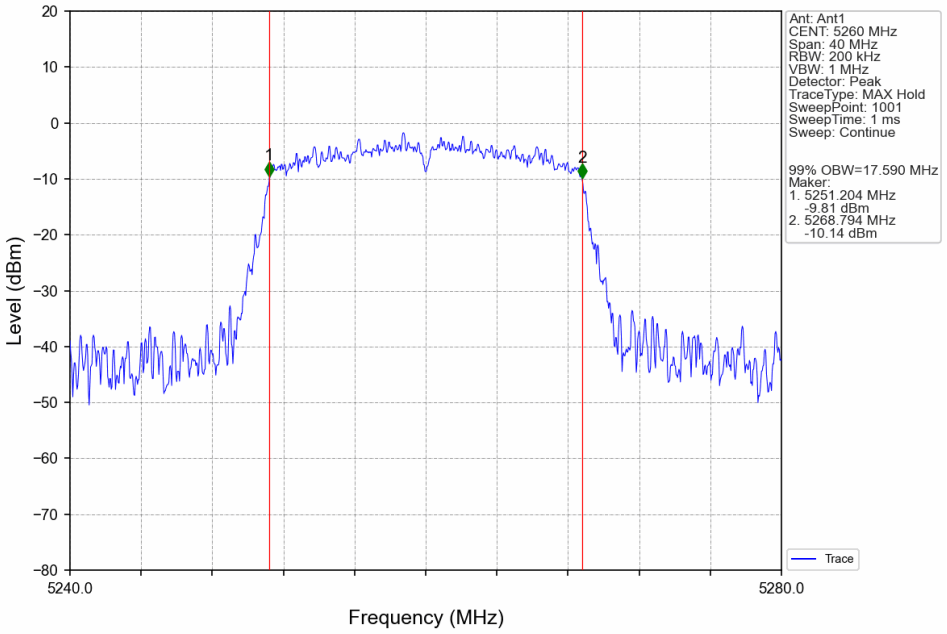
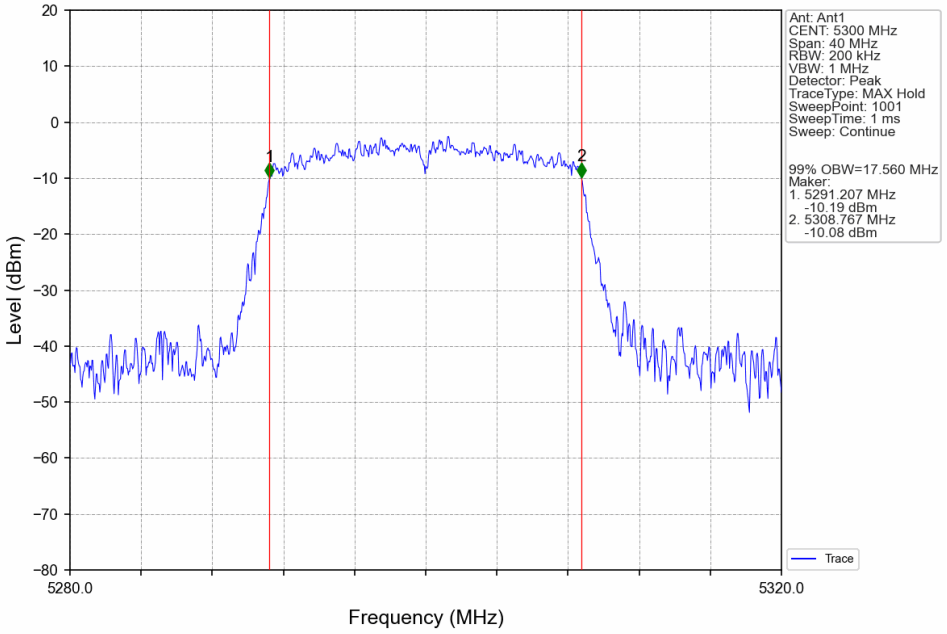


802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV