

Appendix - 5G WiFi

1. Duty Cycle

1.1 Test Result

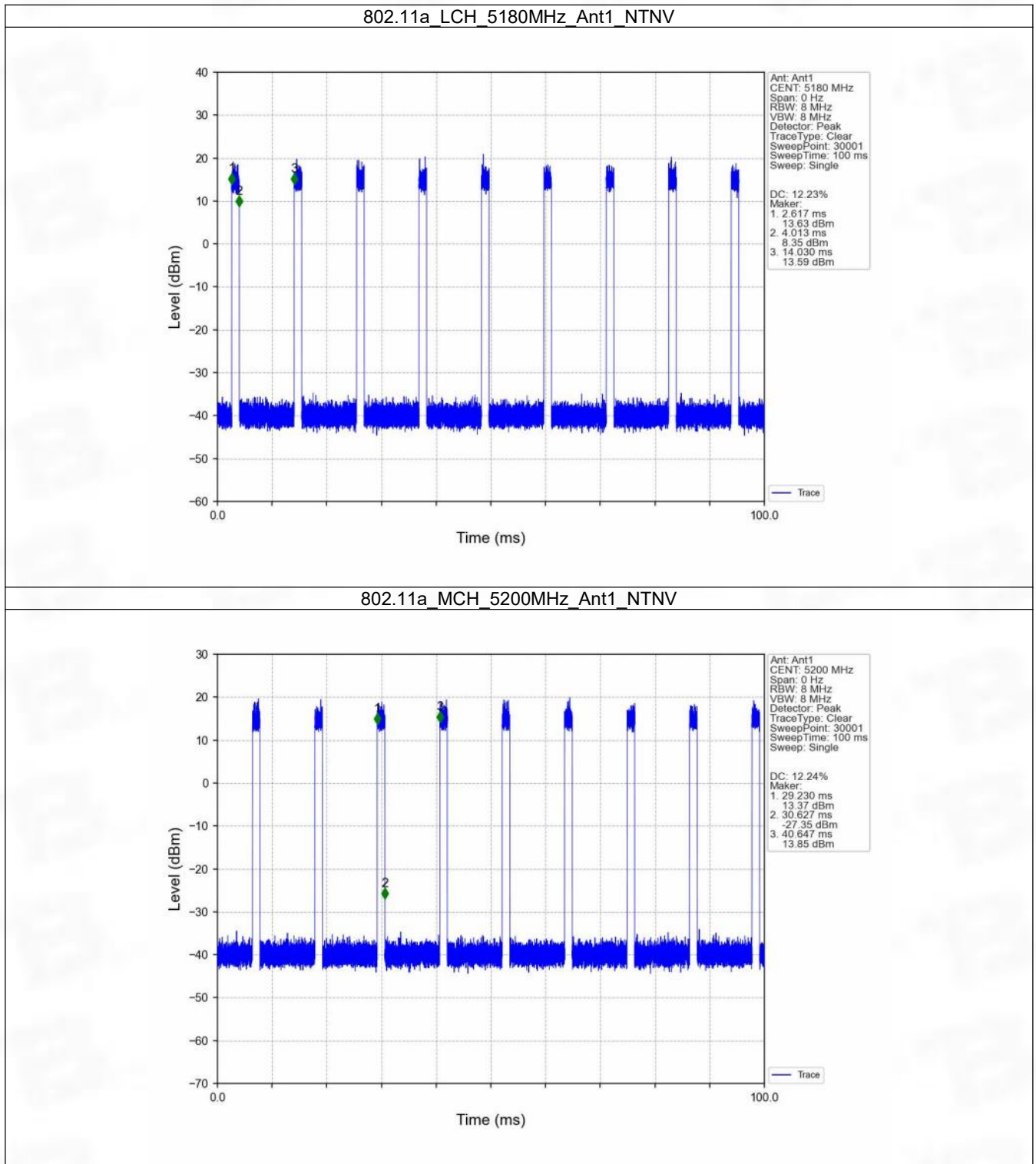
1.1.1 Ant1

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	1.396	11.413	12.23	9.13	0.03
		5200	1.397	11.417	12.24	9.12	0.03
		5240	1.397	11.420	12.23	9.12	0.03
		5260	1.396	11.416	12.23	9.13	0.03
		5300	1.396	11.416	12.23	9.13	0.03
		5320	1.397	11.417	12.24	9.12	0.03
		5500	1.397	11.417	12.24	9.12	0.03
		5580	1.396	11.420	12.22	9.13	0.03
		5700	1.400	12.510	11.19	9.51	0.14
		5745	1.397	11.414	12.24	9.12	0.03
		5785	1.396	11.416	12.23	9.13	0.03
		5825	1.397	11.417	12.24	9.12	0.03
802.11n (HT20)	SISO	5180	1.303	11.320	11.51	9.39	0.03
		5200	1.303	11.323	11.51	9.39	0.03
		5240	1.304	11.327	11.51	9.39	0.03
		5260	1.303	11.326	11.50	9.39	0.03
		5300	1.303	11.323	11.51	9.39	0.03
		5320	1.303	11.323	11.51	9.39	0.03
		5500	1.306	11.400	11.46	9.41	0.08
		5580	1.303	11.323	11.51	9.39	0.03
		5700	1.304	11.324	11.52	9.39	0.03
		5745	1.304	11.327	11.51	9.39	0.04
		5785	1.307	11.327	11.54	9.38	0.01
		5825	1.303	11.327	11.50	9.39	0.03
802.11n (HT40)	SISO	5190	0.647	10.663	6.07	12.17	0.03
		5230	0.650	10.670	6.09	12.15	0.00
		5270	0.647	10.670	6.06	12.17	0.03
		5310	0.646	10.666	6.06	12.18	0.03
		5510	0.647	10.667	6.07	12.17	0.03
		5550	0.647	10.670	6.06	12.17	0.03
		5670	0.647	10.670	6.06	12.17	0.03
		5755	0.646	10.666	6.06	12.18	0.03
		5795	0.650	11.706	5.55	12.55	0.54
802.11ac (VHT20)	SISO	5180	1.317	11.333	11.62	9.35	0.03
		5200	1.317	11.337	11.62	9.35	0.03
		5240	1.317	11.337	11.62	9.35	0.03
		5260	1.316	11.336	11.61	9.35	0.03
		5300	1.317	11.337	11.62	9.35	0.03
		5320	1.317	11.337	11.62	9.35	0.03
		5500	1.317	11.340	11.61	9.35	0.03
		5580	1.317	11.340	11.61	9.35	0.03
		5700	1.316	11.336	11.61	9.35	0.03
		5745	1.317	11.337	11.62	9.35	0.03
		5785	1.316	11.340	11.60	9.35	0.04
		5825	1.316	11.336	11.61	9.35	0.03
802.11ac (VHT40)	SISO	5190	0.657	10.673	6.16	12.11	0.03
		5230	0.657	10.680	6.15	12.11	0.00
		5270	0.657	10.677	6.15	12.11	0.03

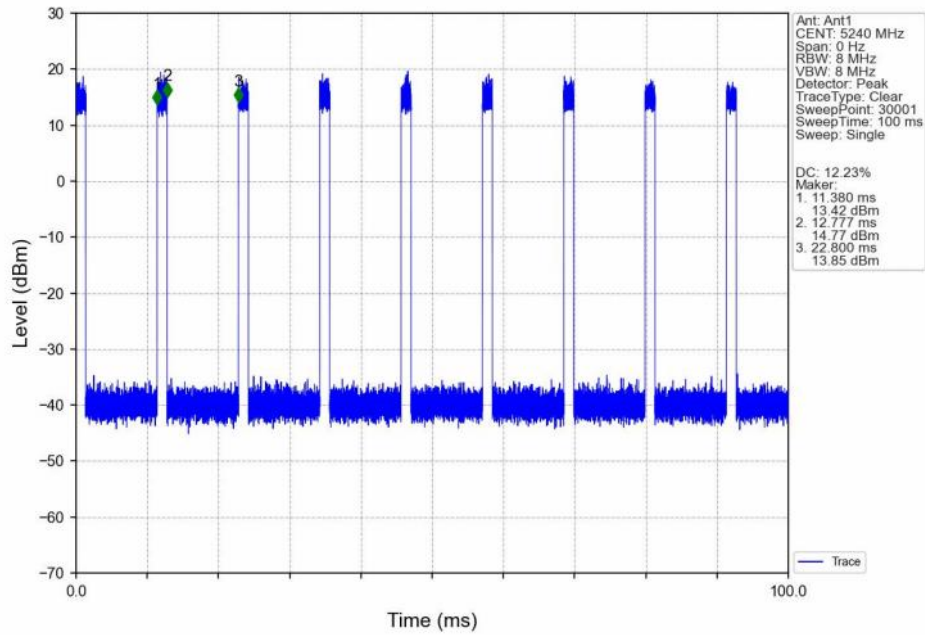
		5310	0.657	10.680	6.15	12.11	0.00
		5510	0.656	10.676	6.14	12.12	0.03
		5550	0.657	10.677	6.15	12.11	0.00
		5670	0.657	10.680	6.15	12.11	0.00
		5755	0.657	10.720	6.13	12.13	0.06
		5795	0.656	10.676	6.14	12.12	0.03

1.2 Test Graph

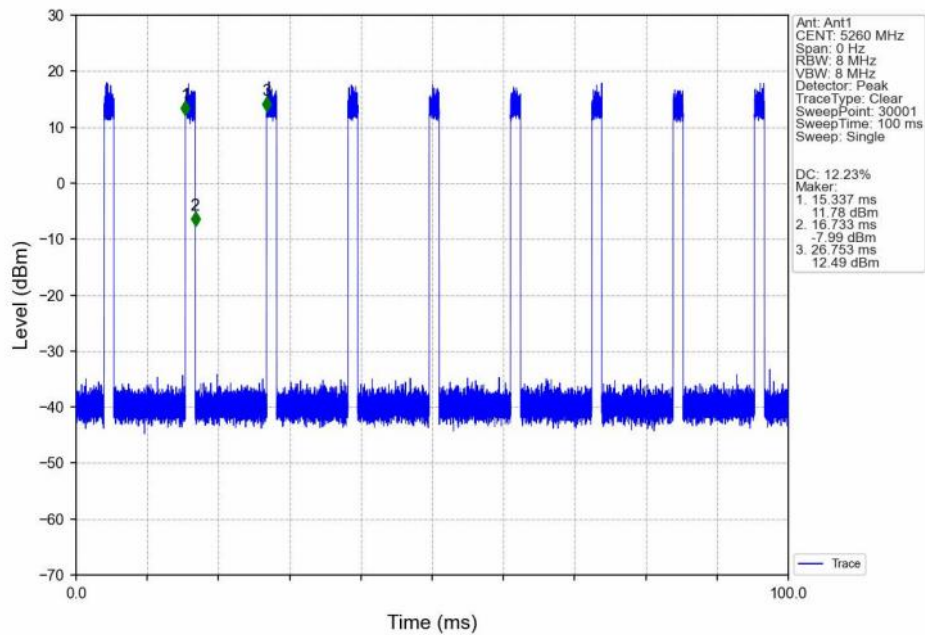
1.2.1 Ant1



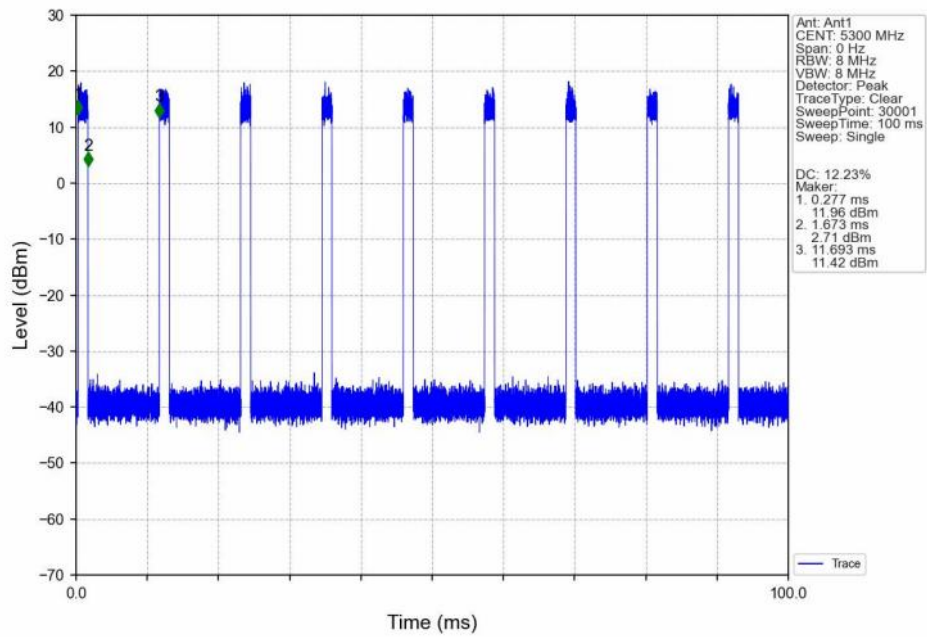
802.11a_HCH_5240MHz_Ant1_NTNV



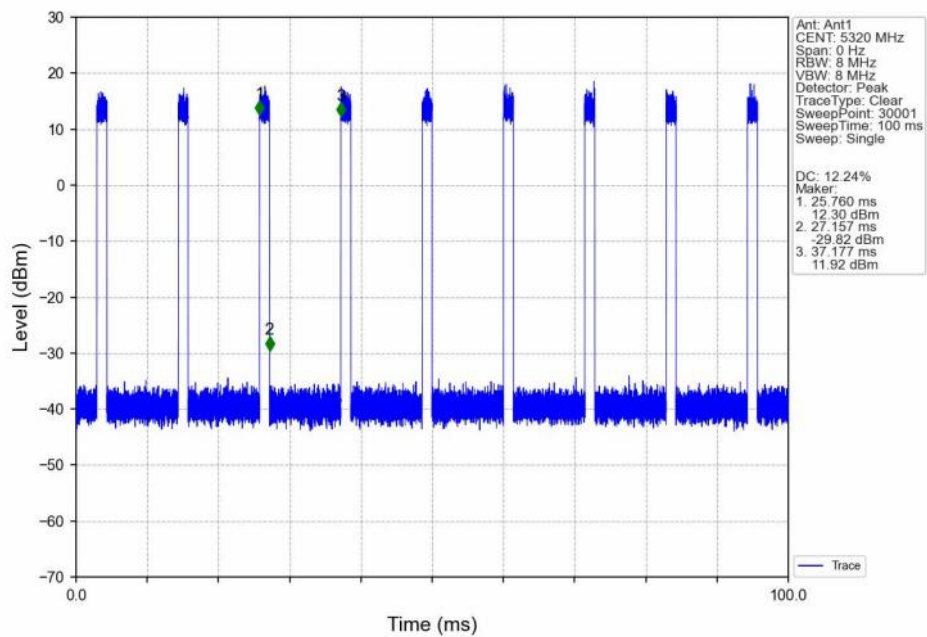
802.11a_LCH_5260MHz_Ant1_NTNV



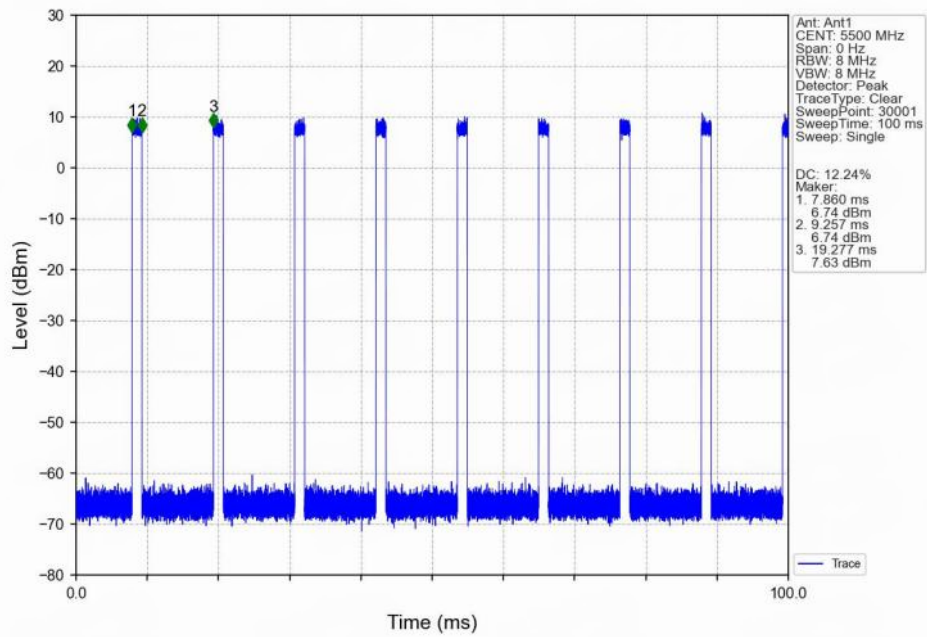
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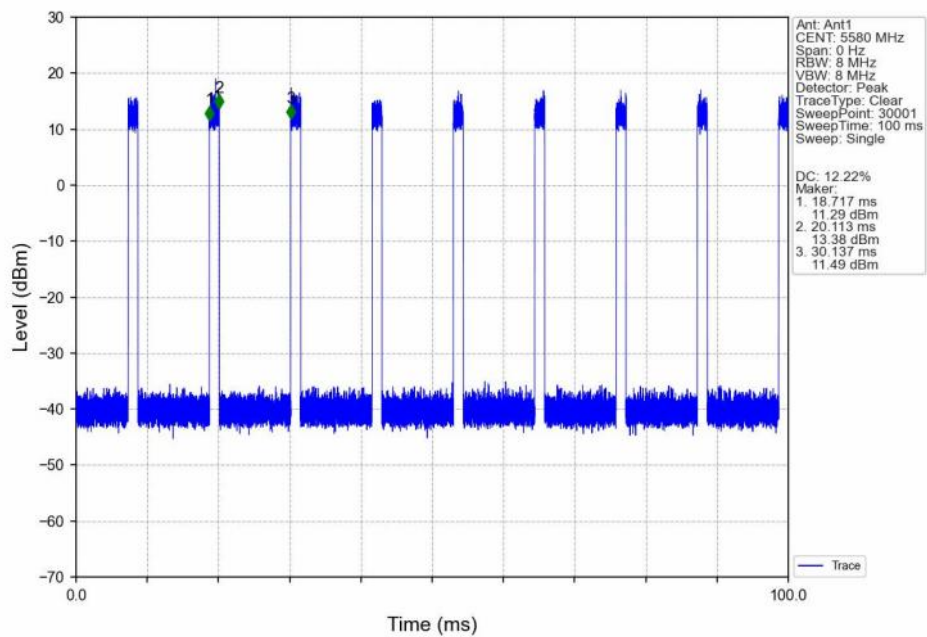
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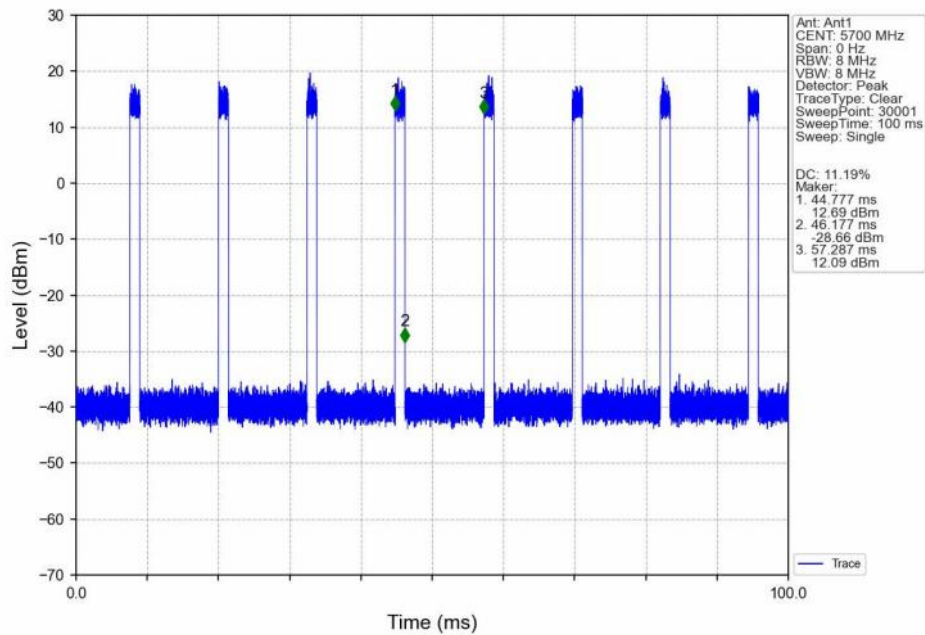
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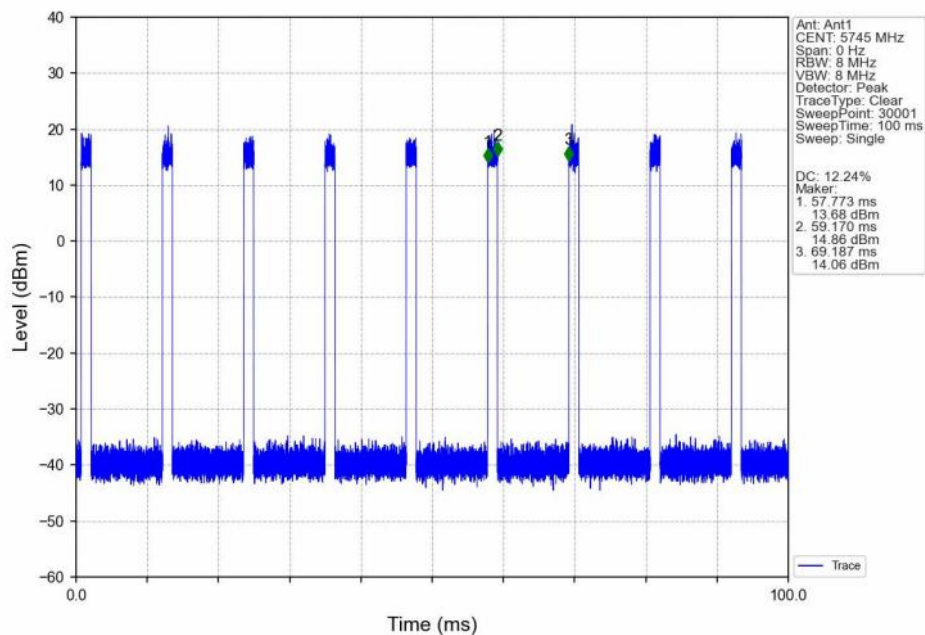
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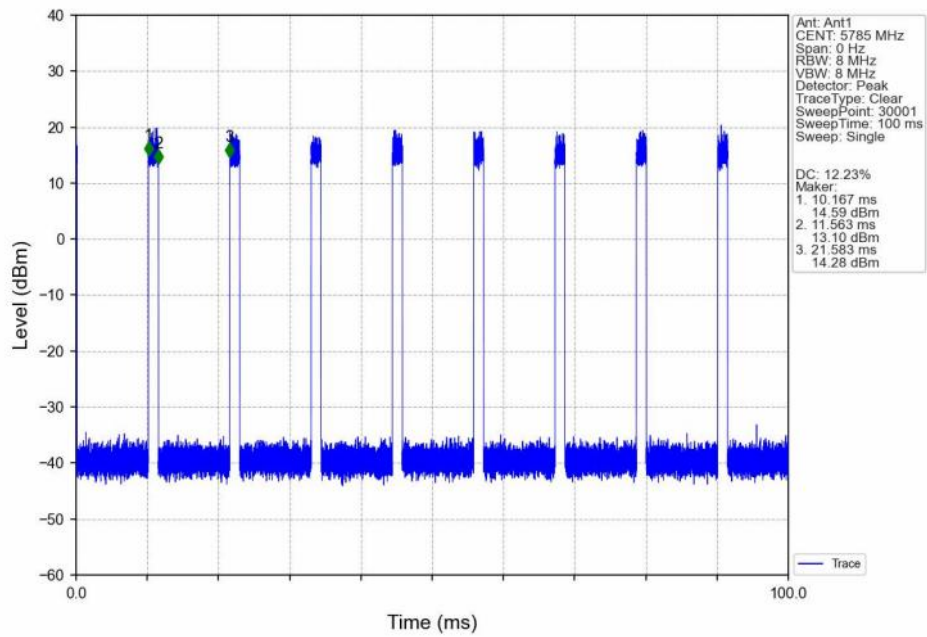
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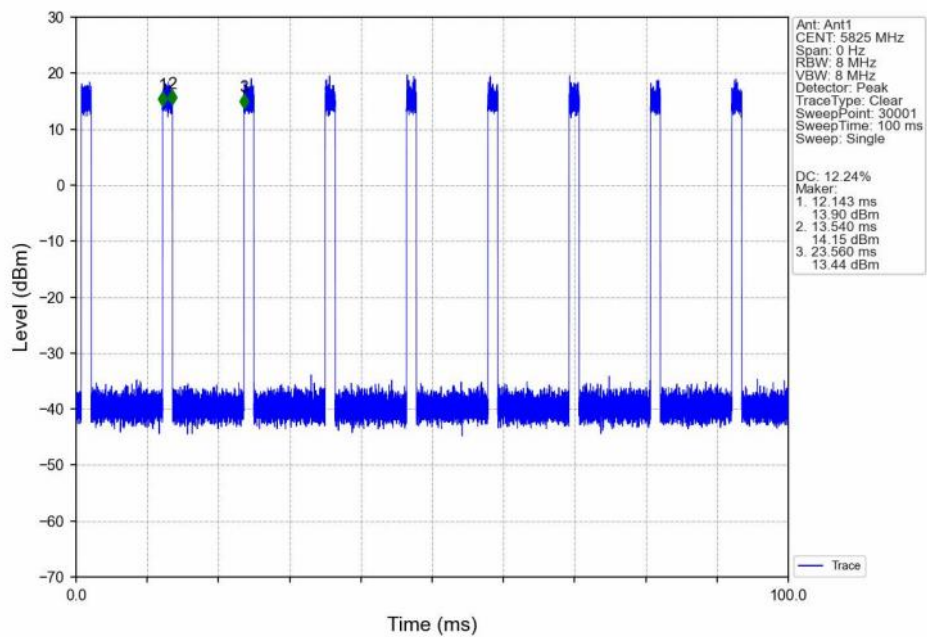
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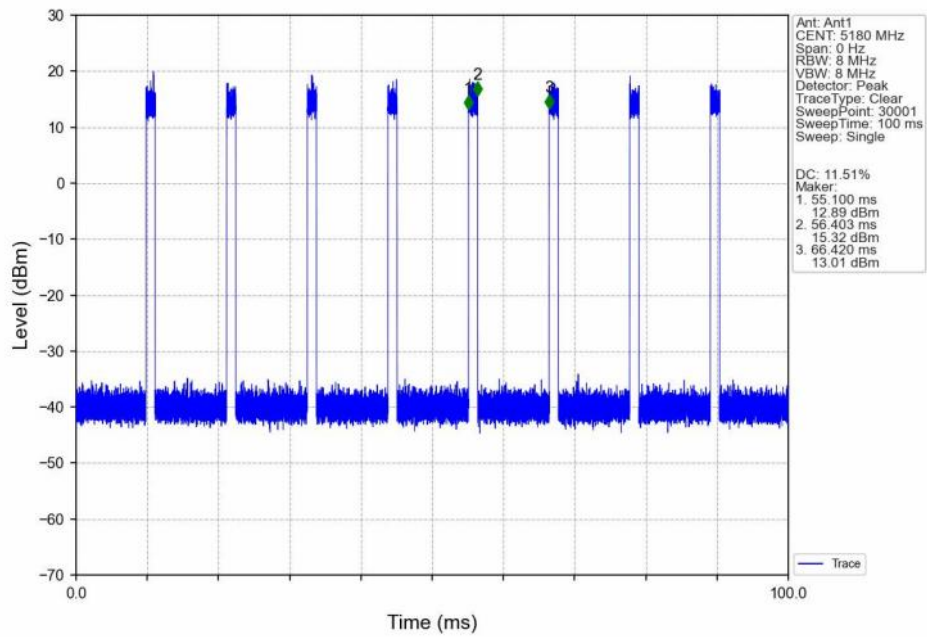
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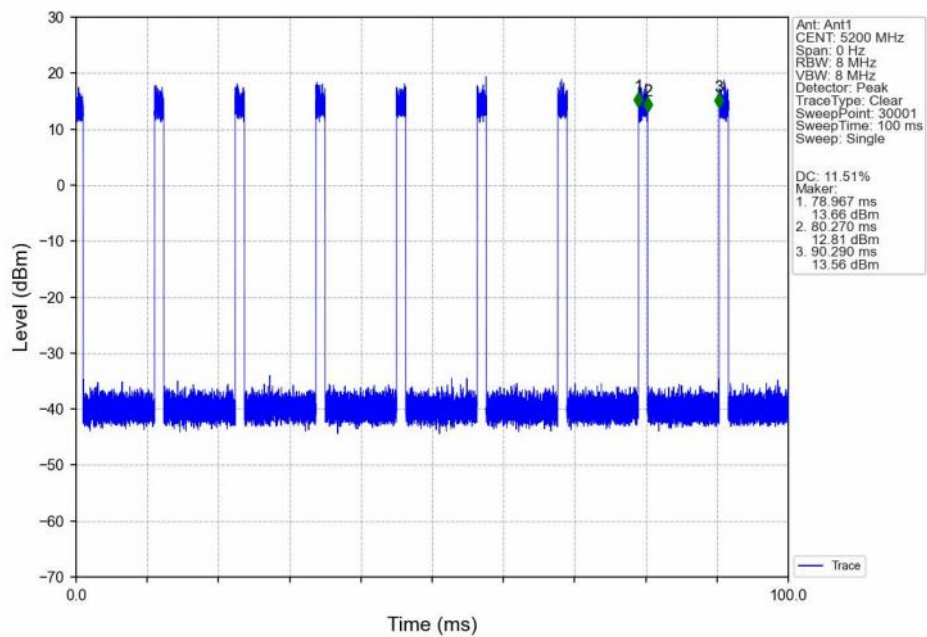
802.11a_HCH_5825MHz_Ant1_NTNV



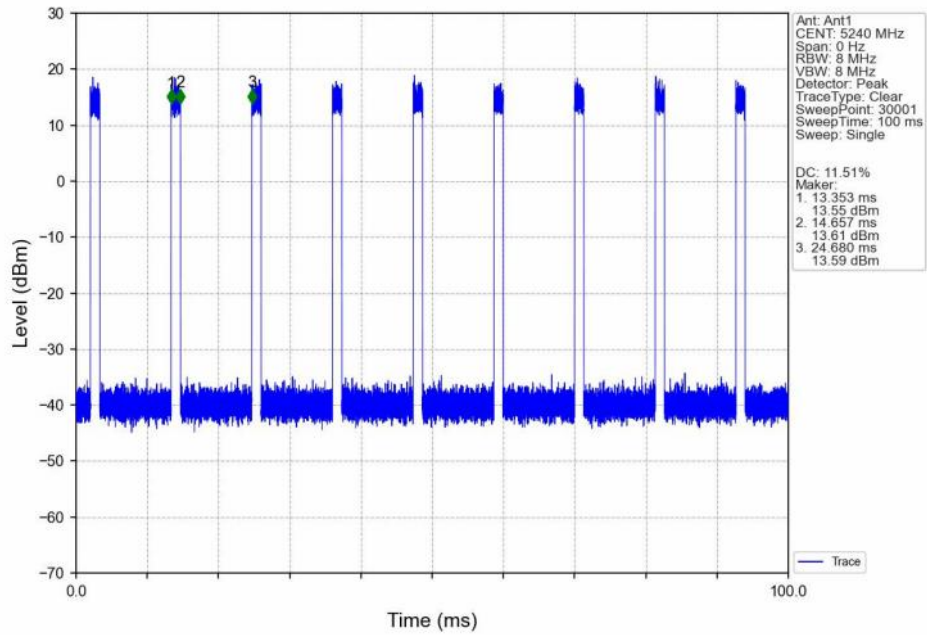
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



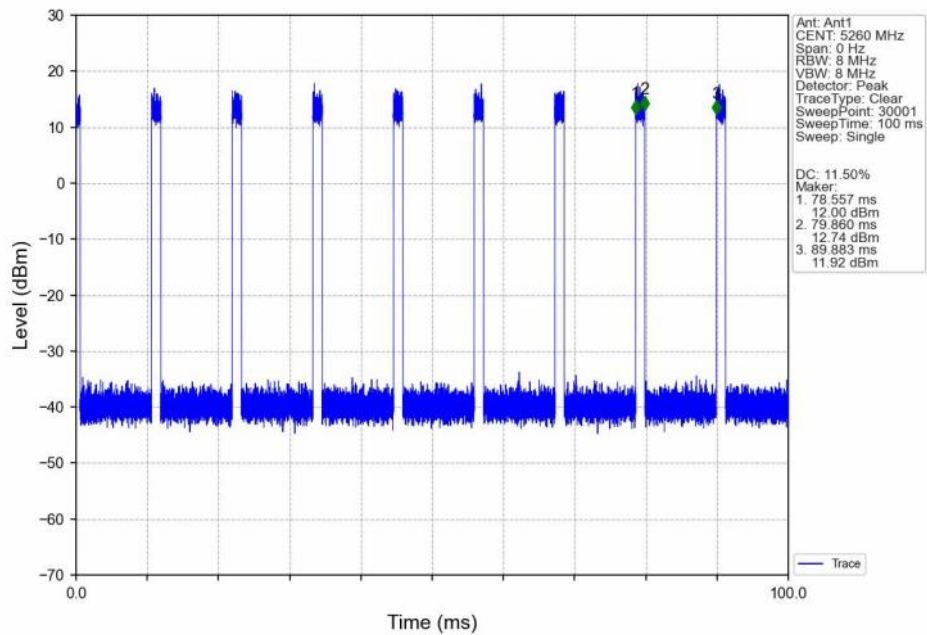
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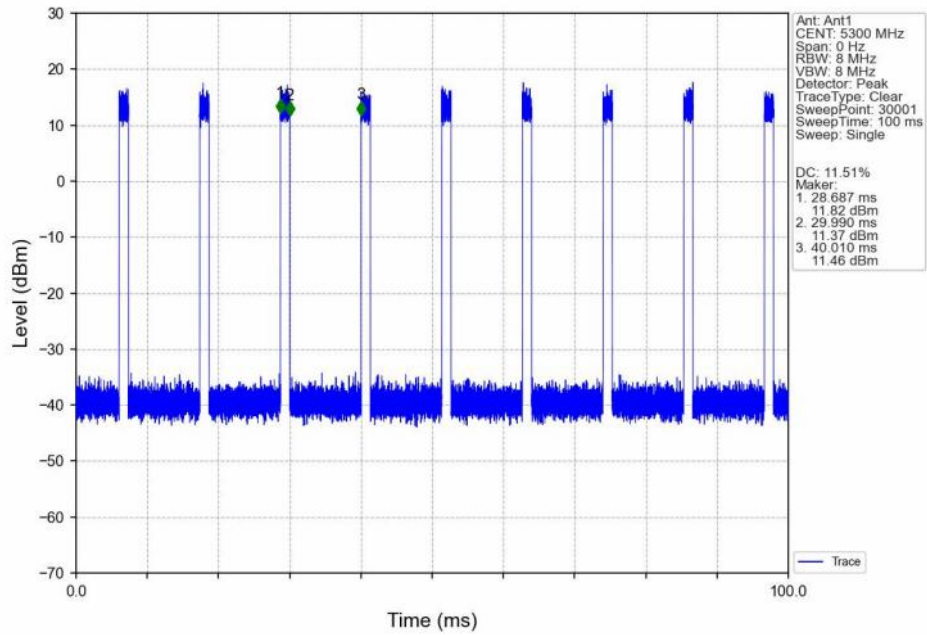
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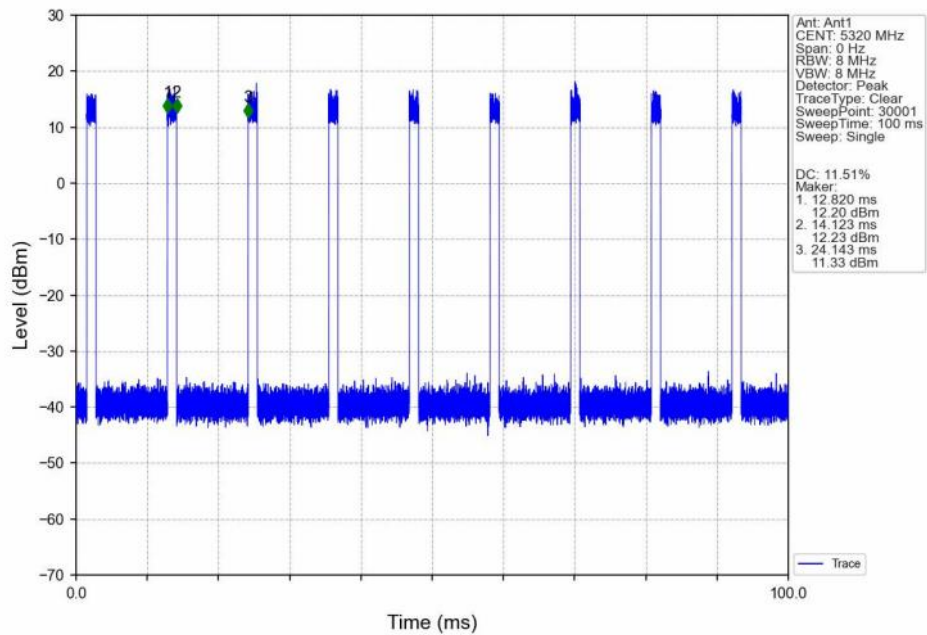
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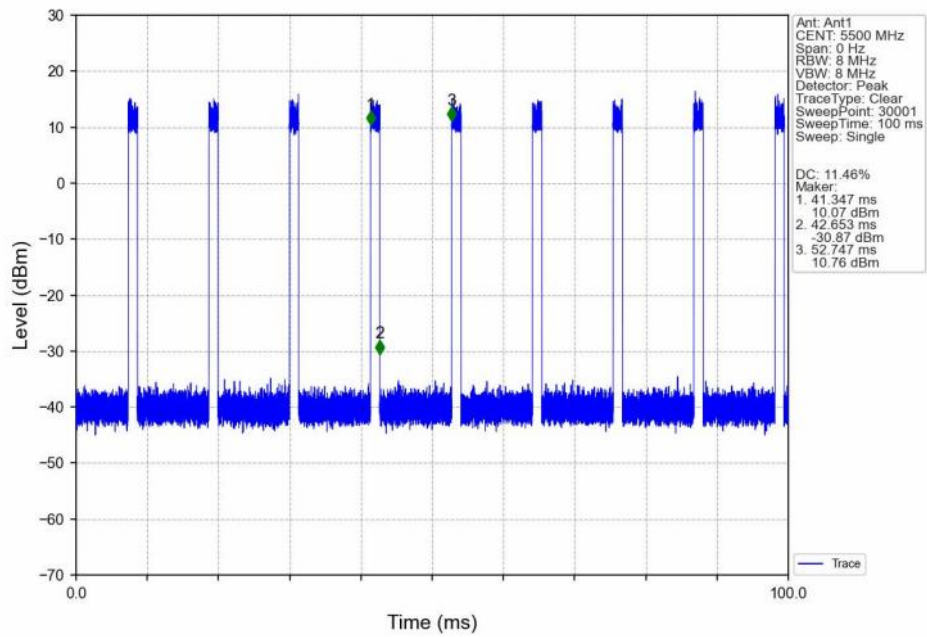
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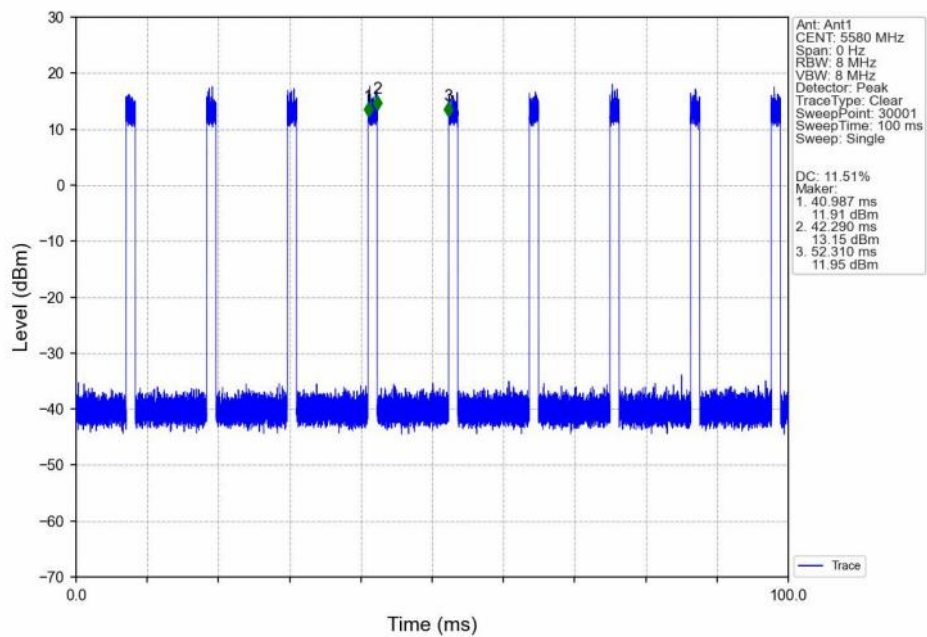
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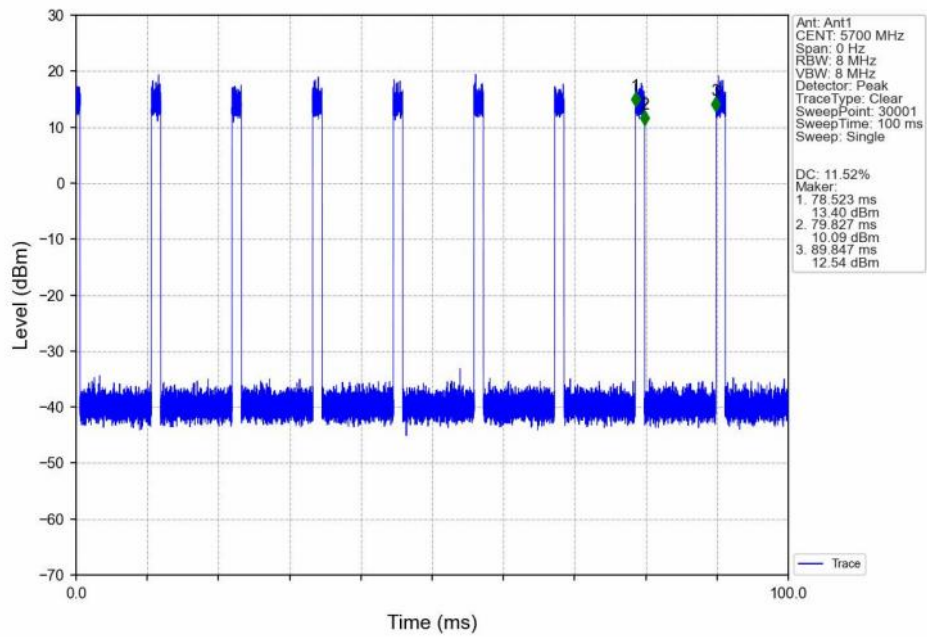
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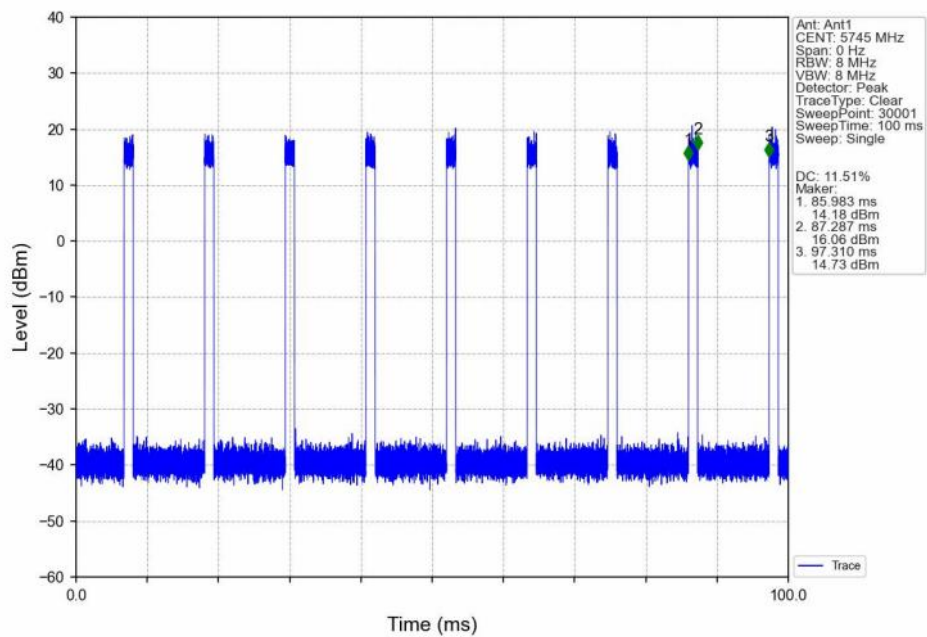
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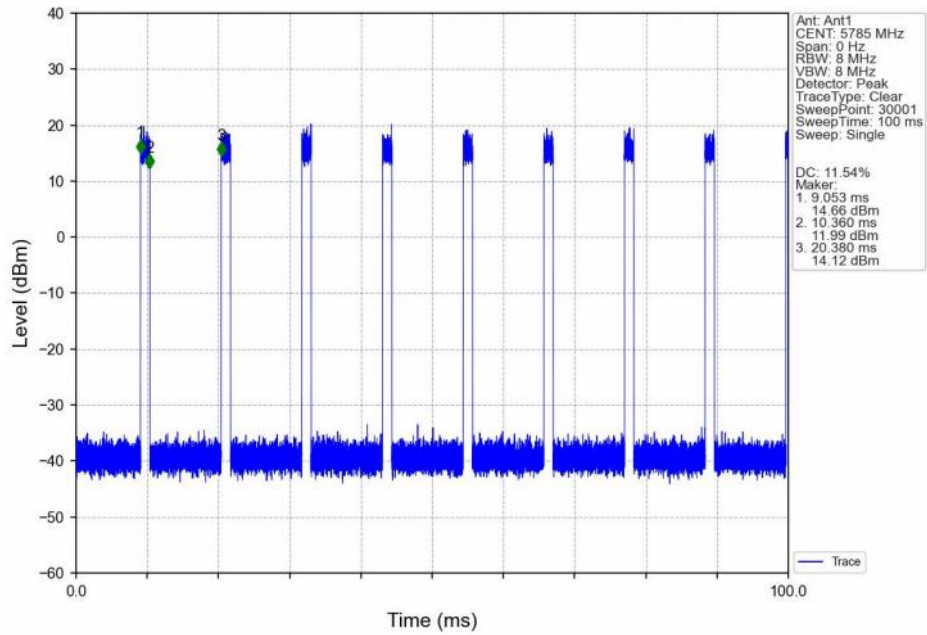
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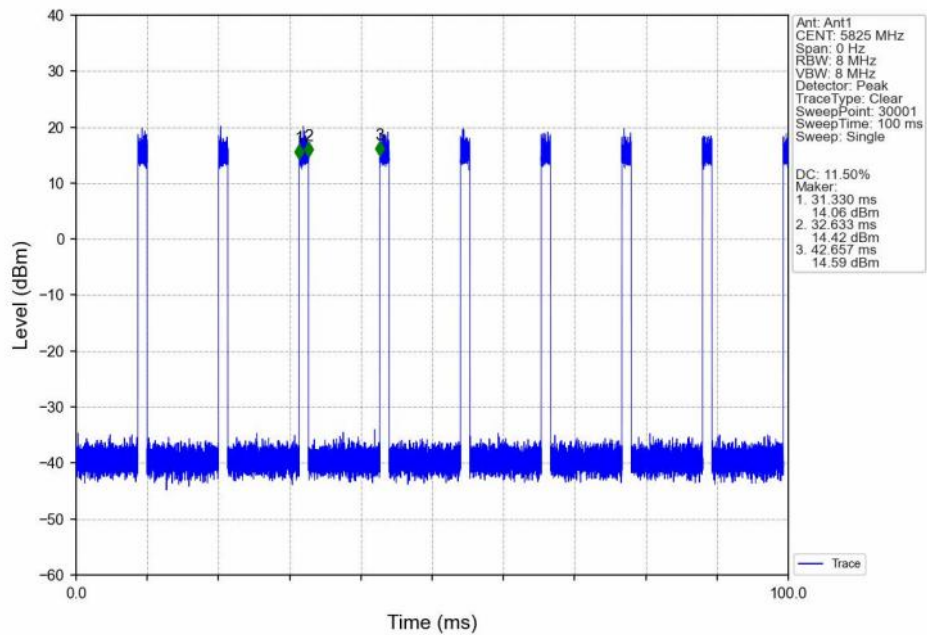
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



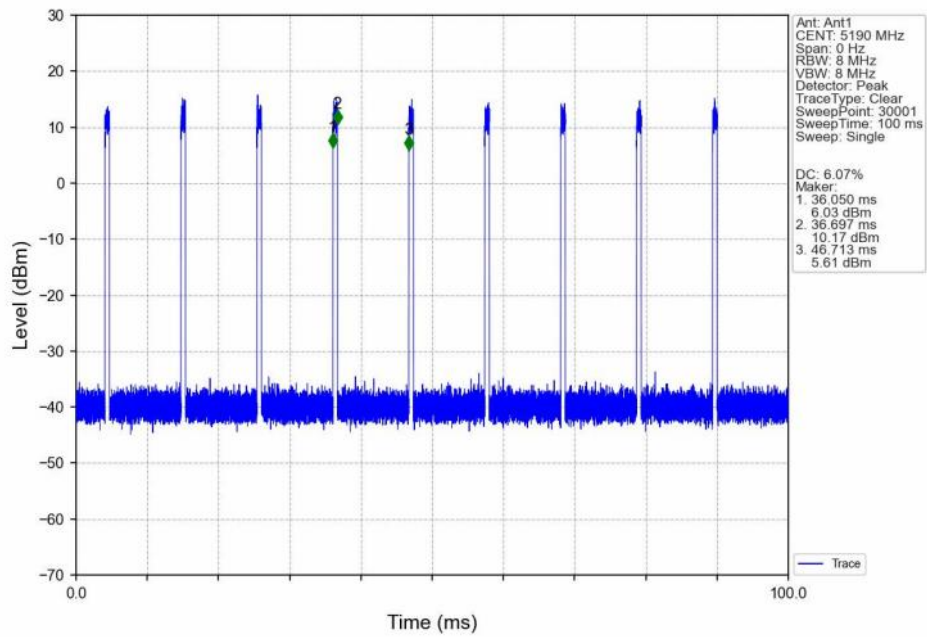
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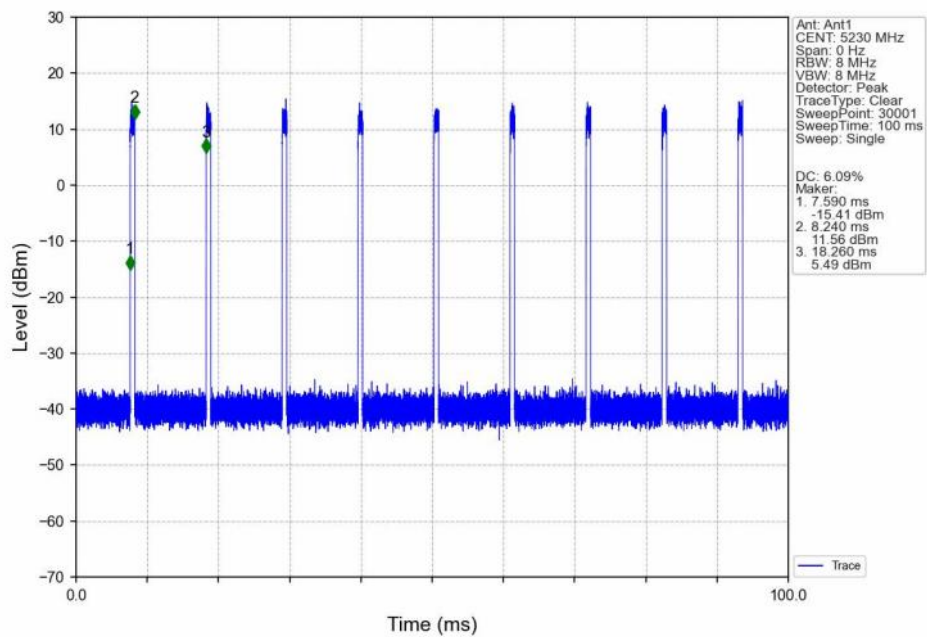
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



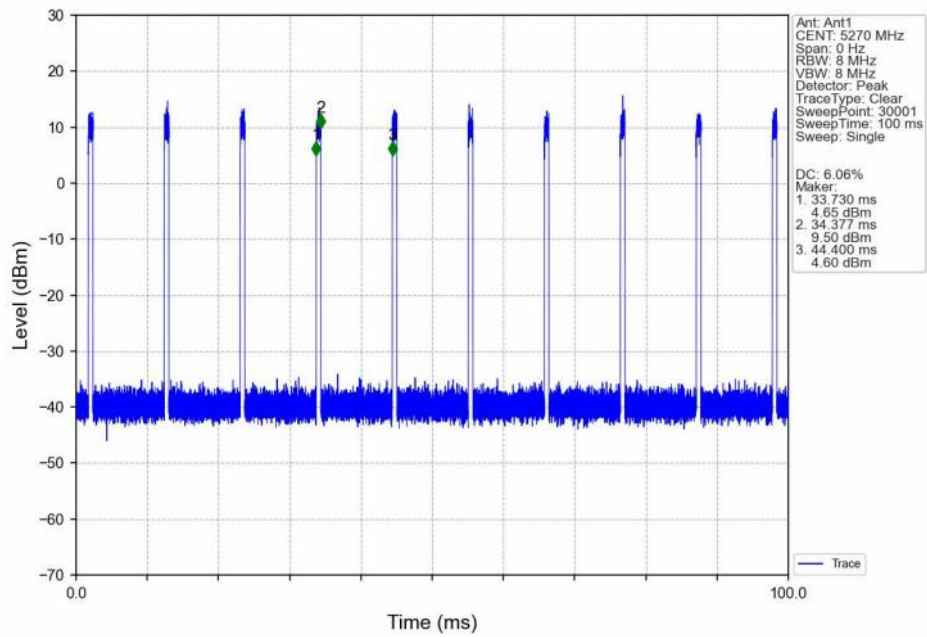
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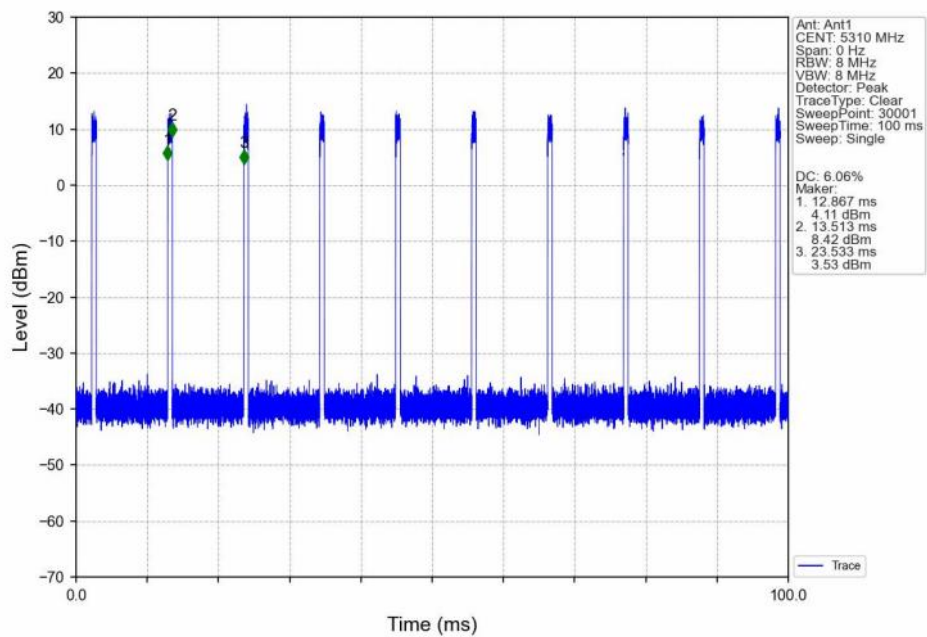
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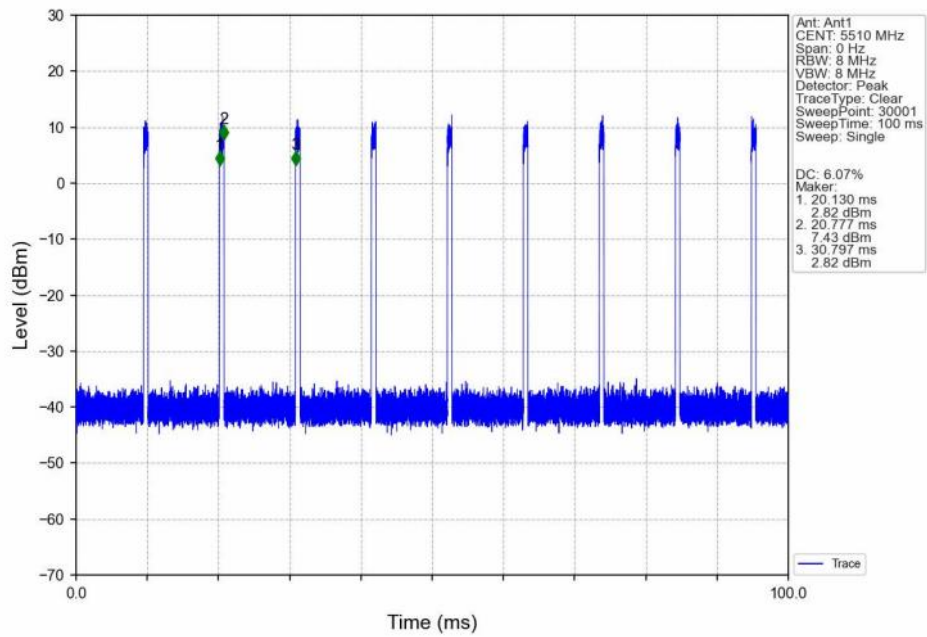
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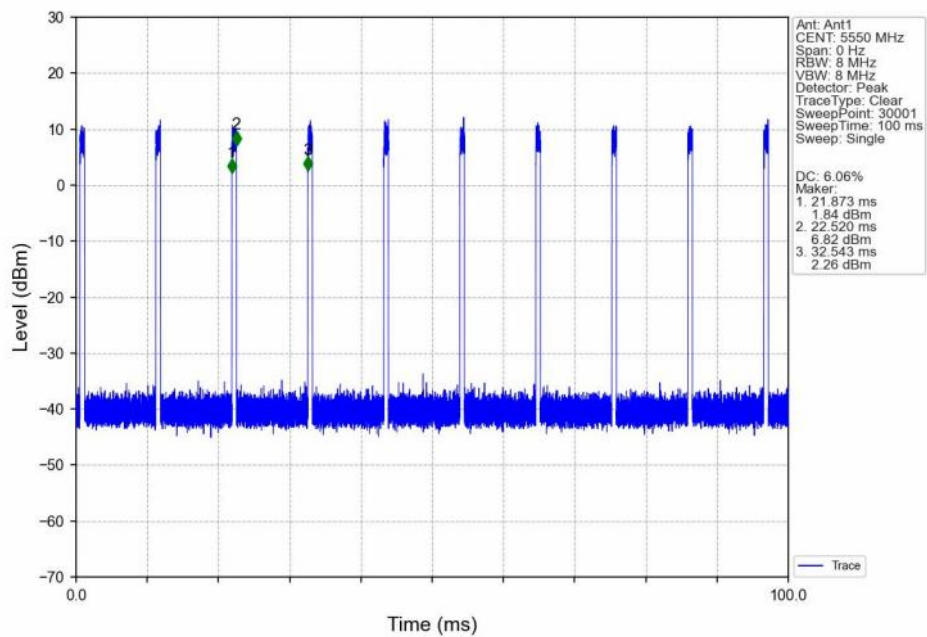
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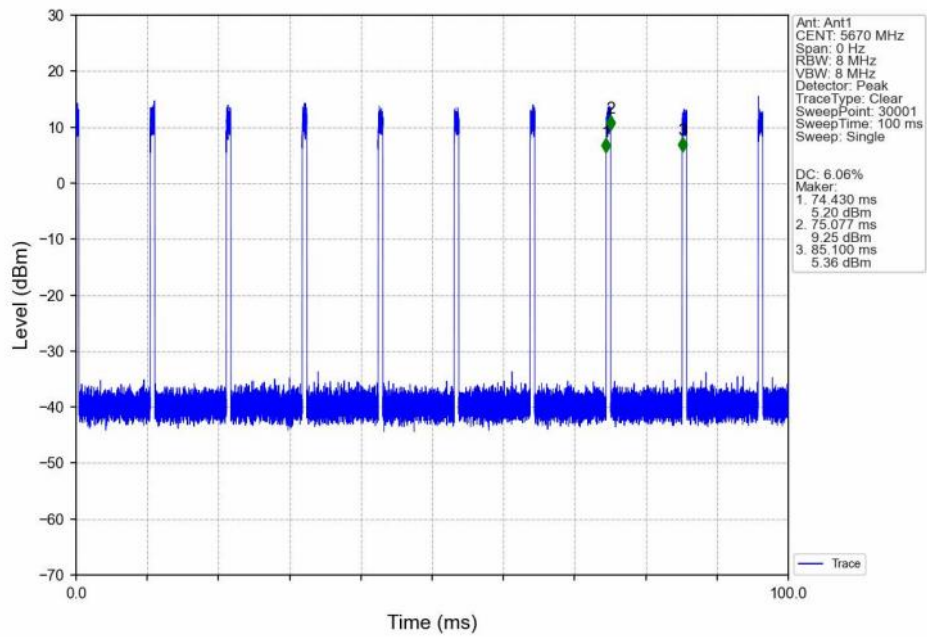
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



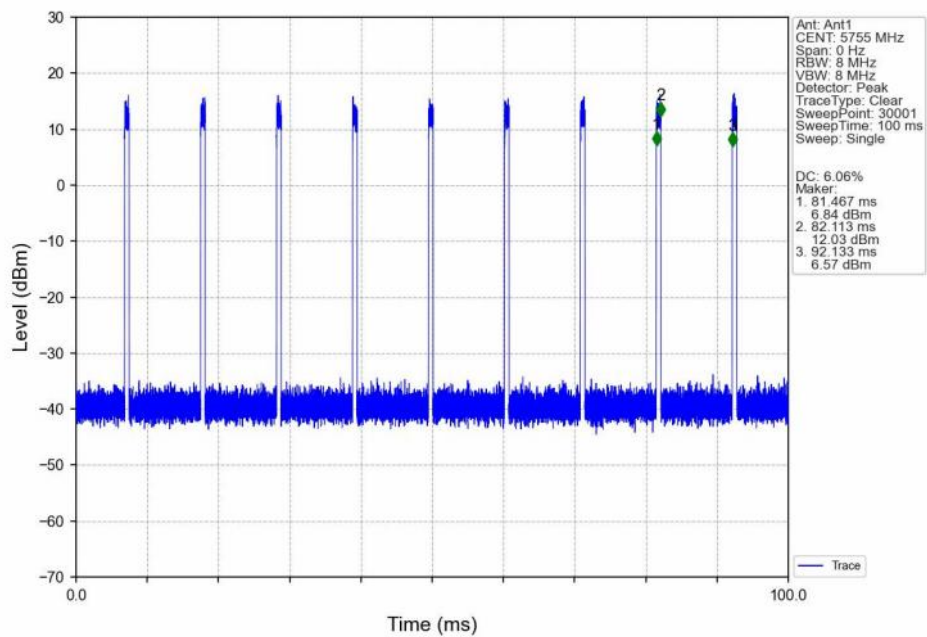
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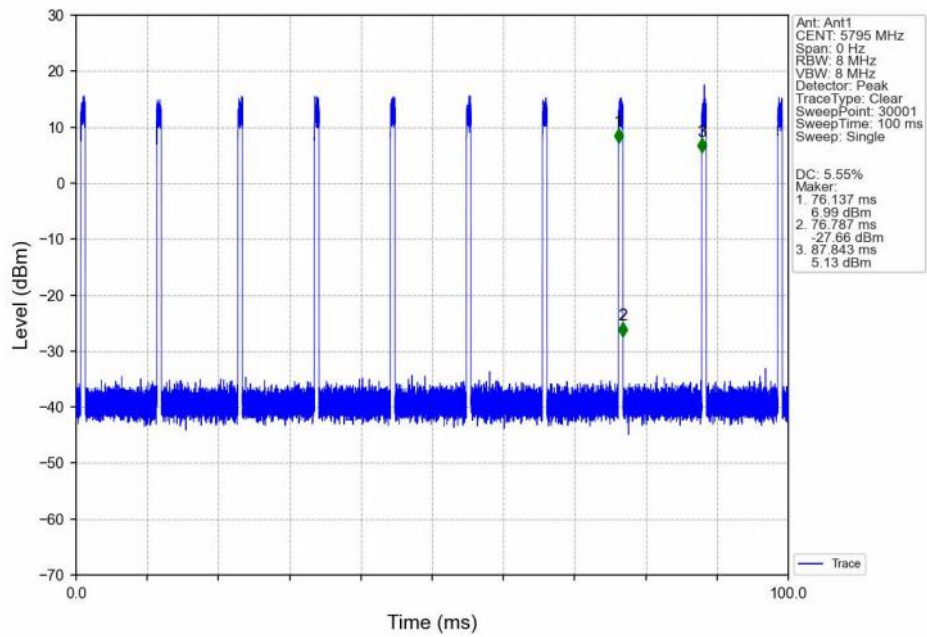
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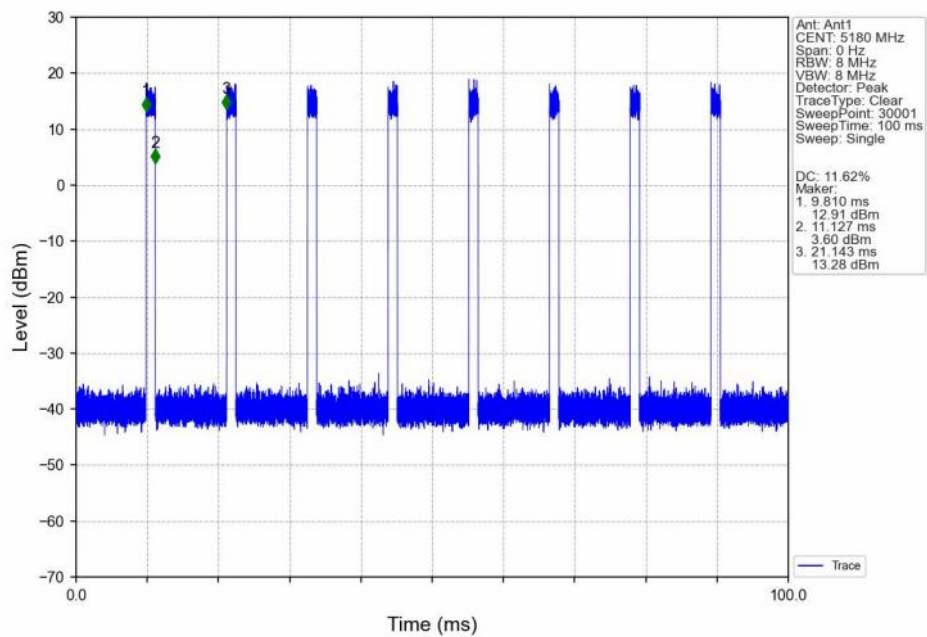
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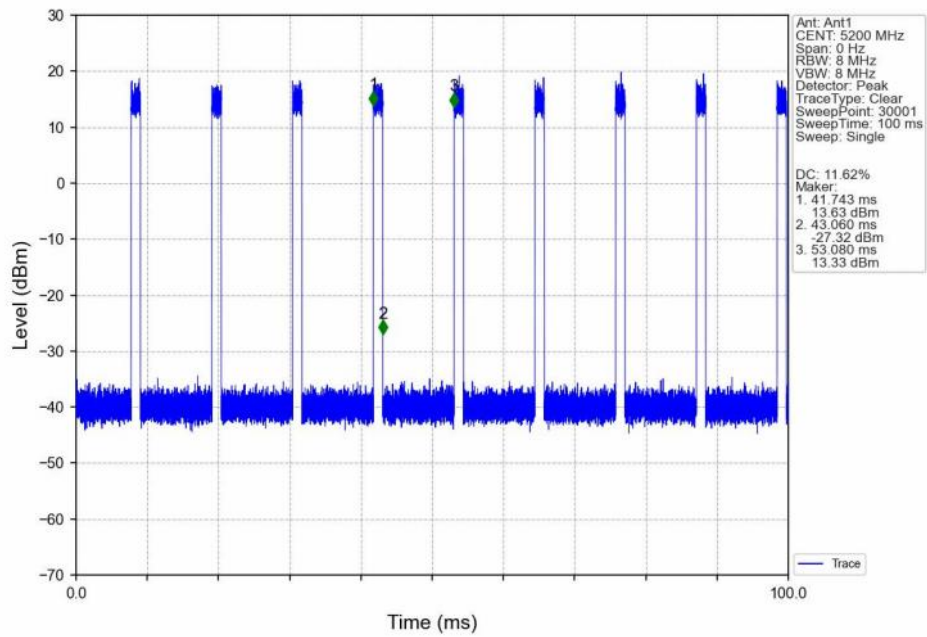
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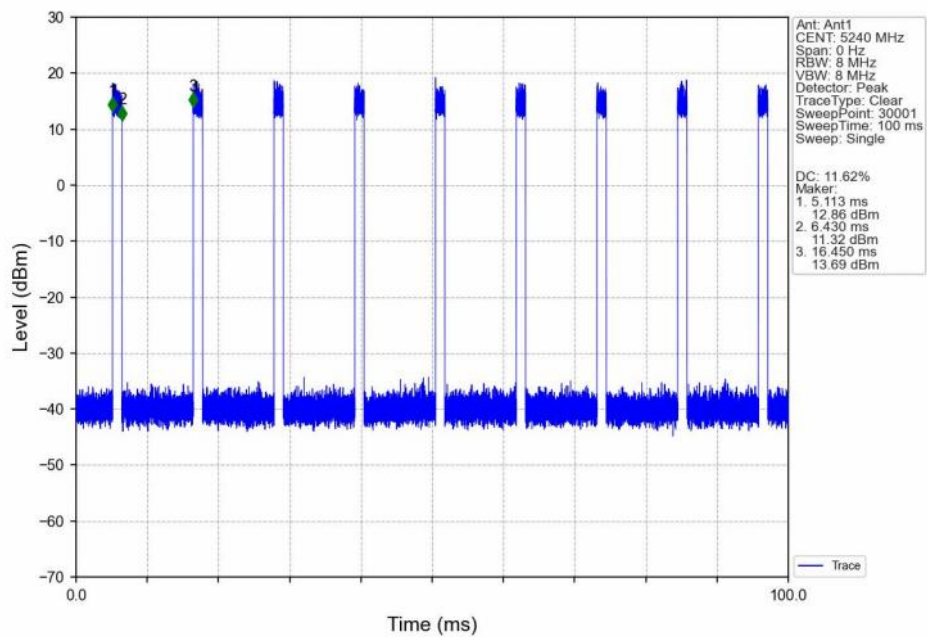
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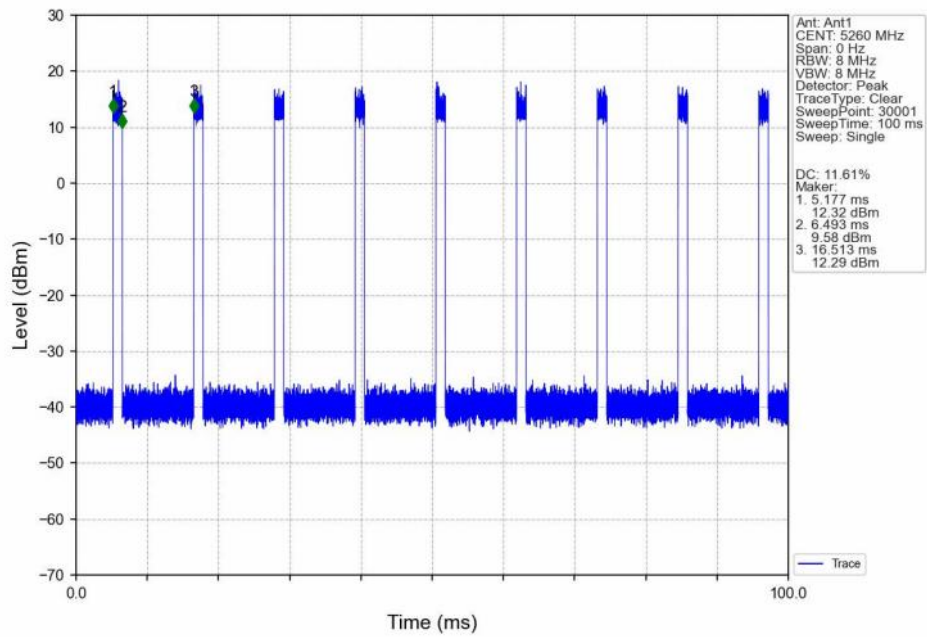
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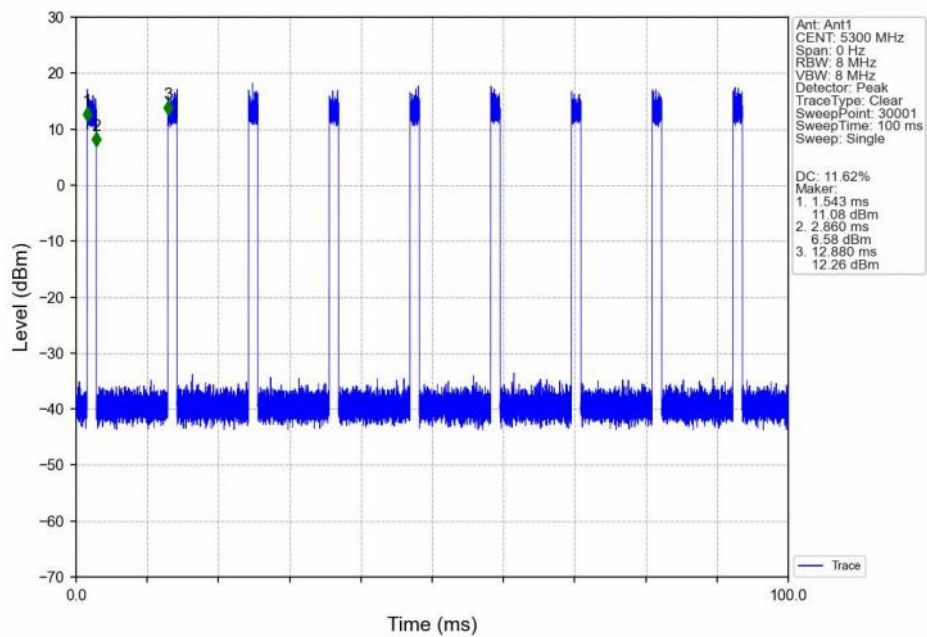
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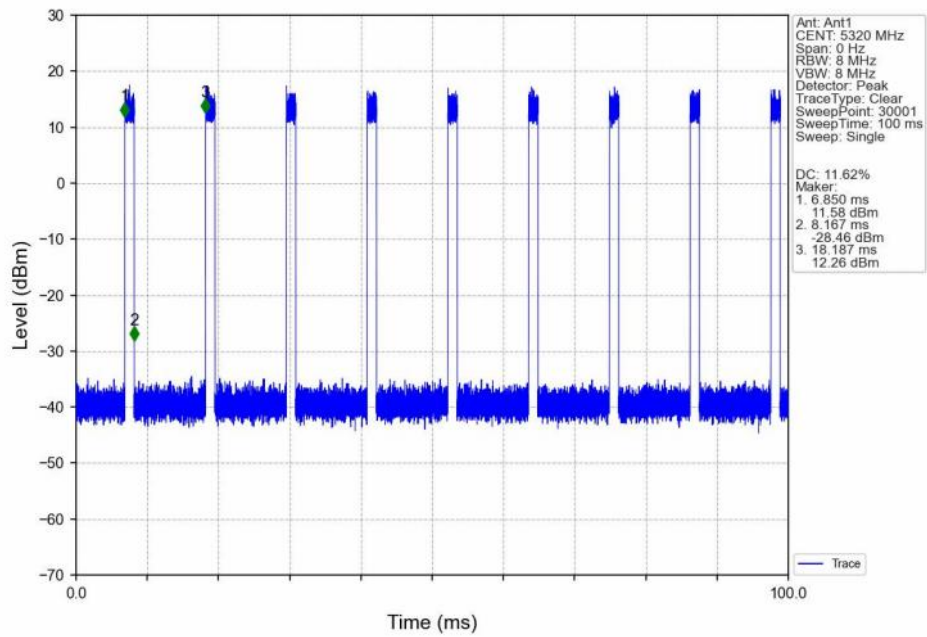
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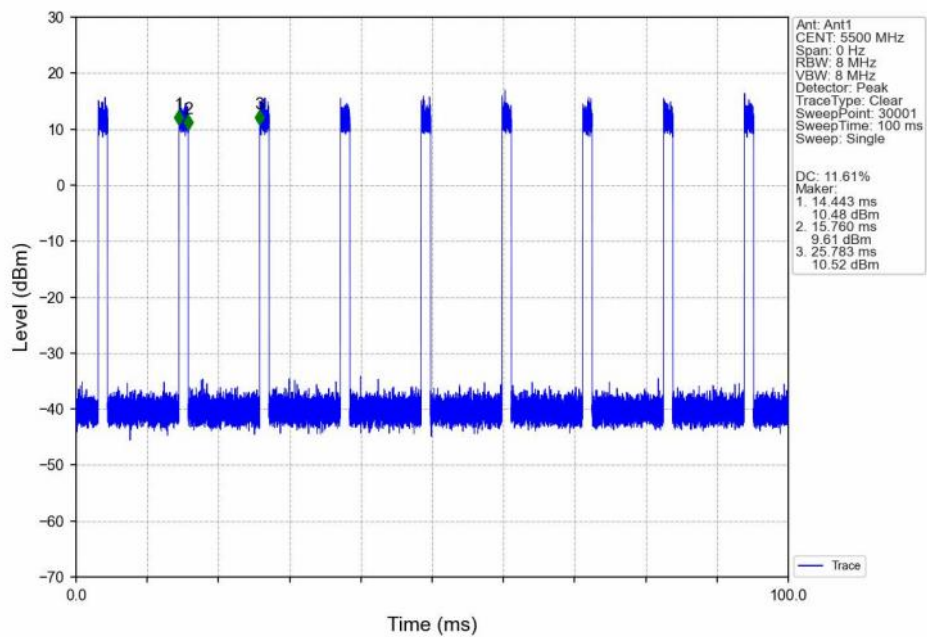
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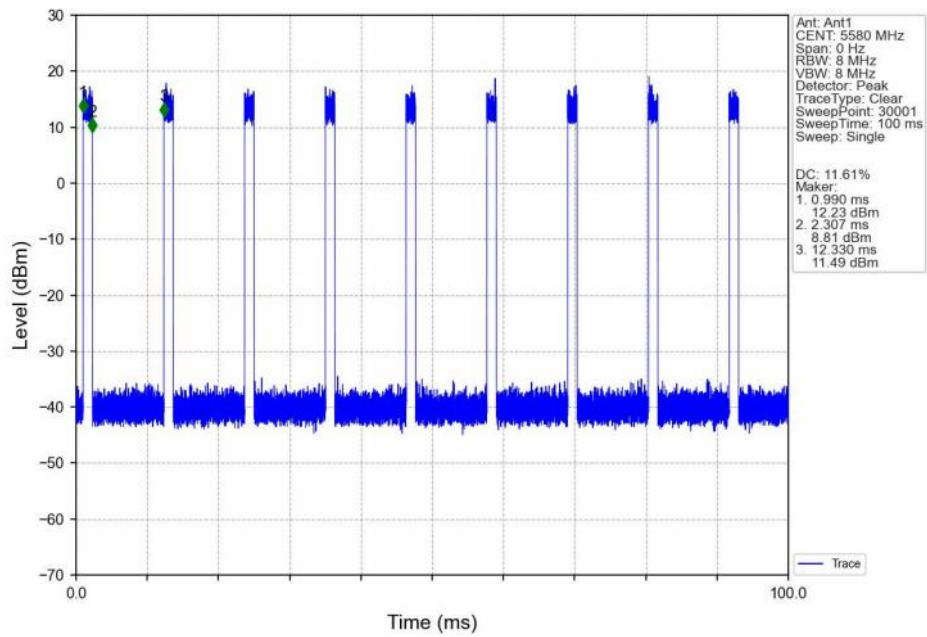
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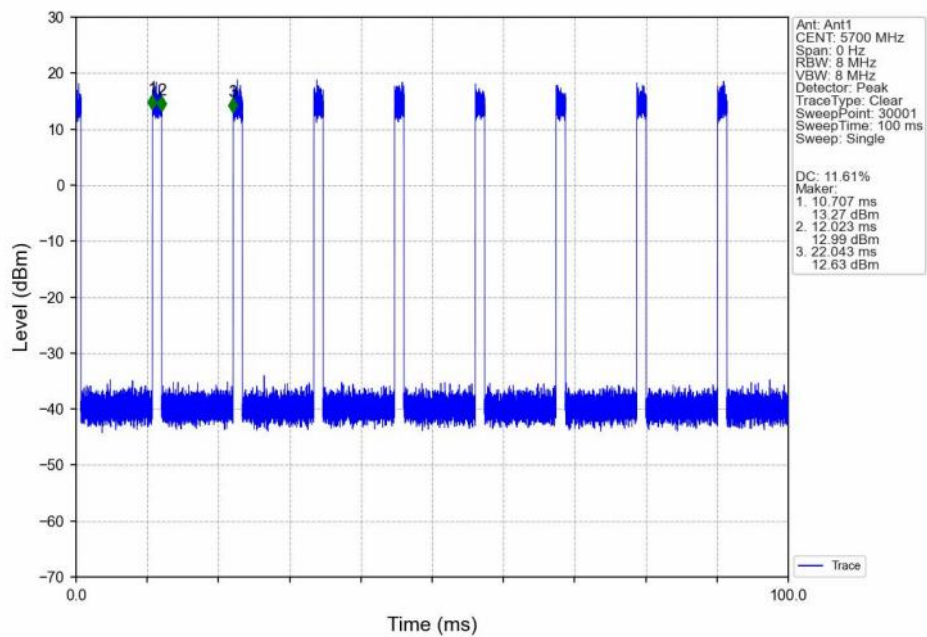
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



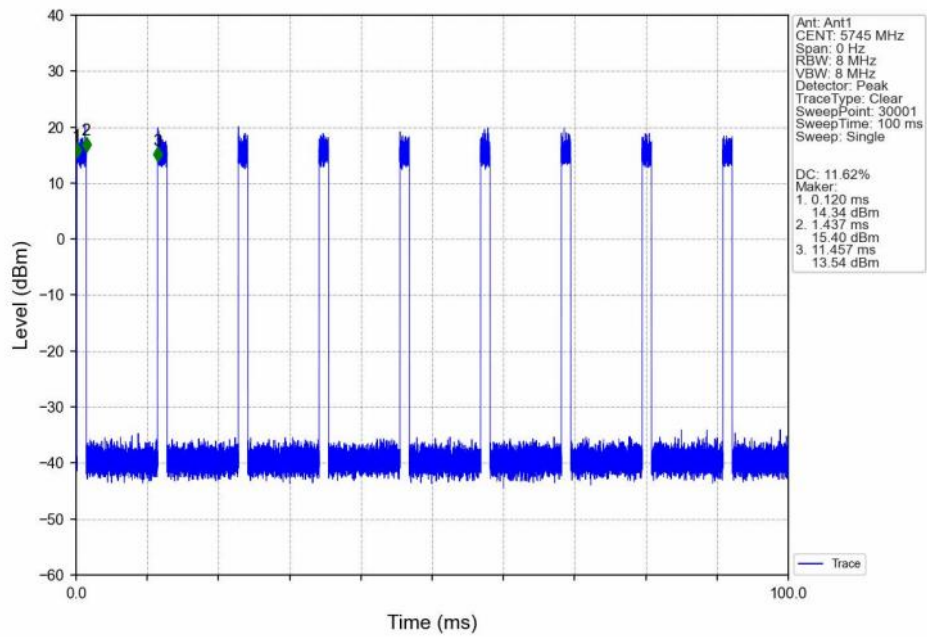
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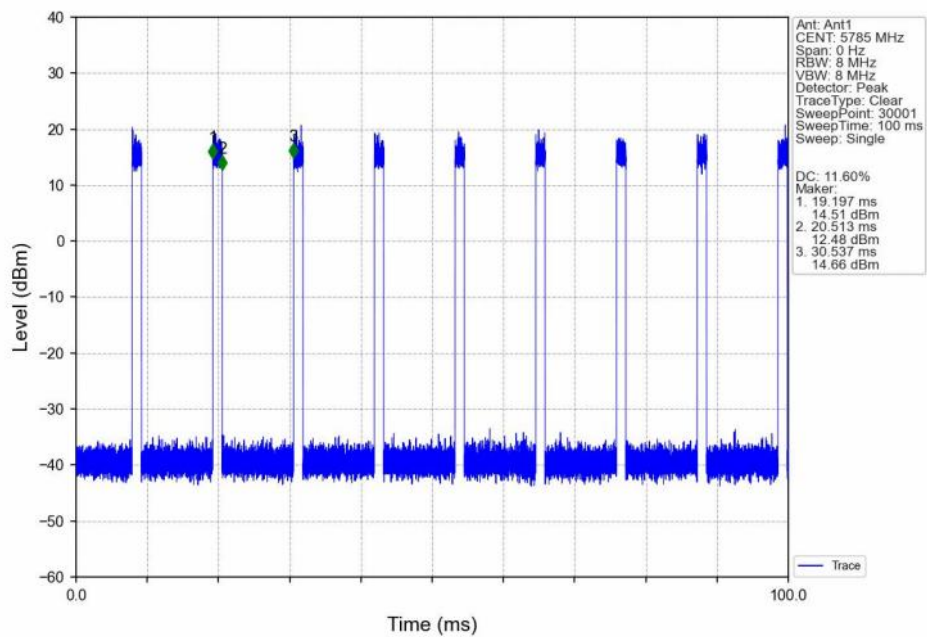
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



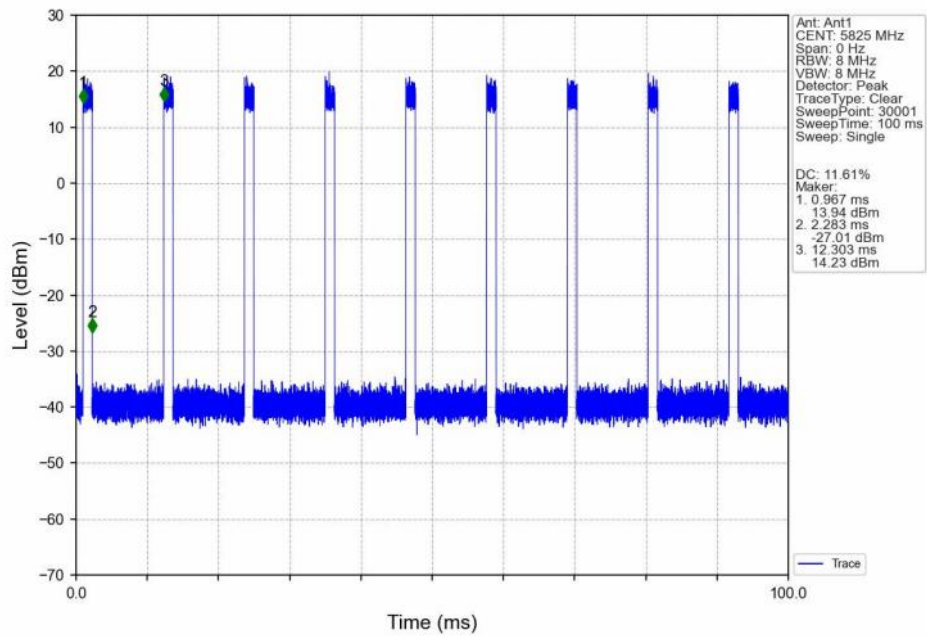
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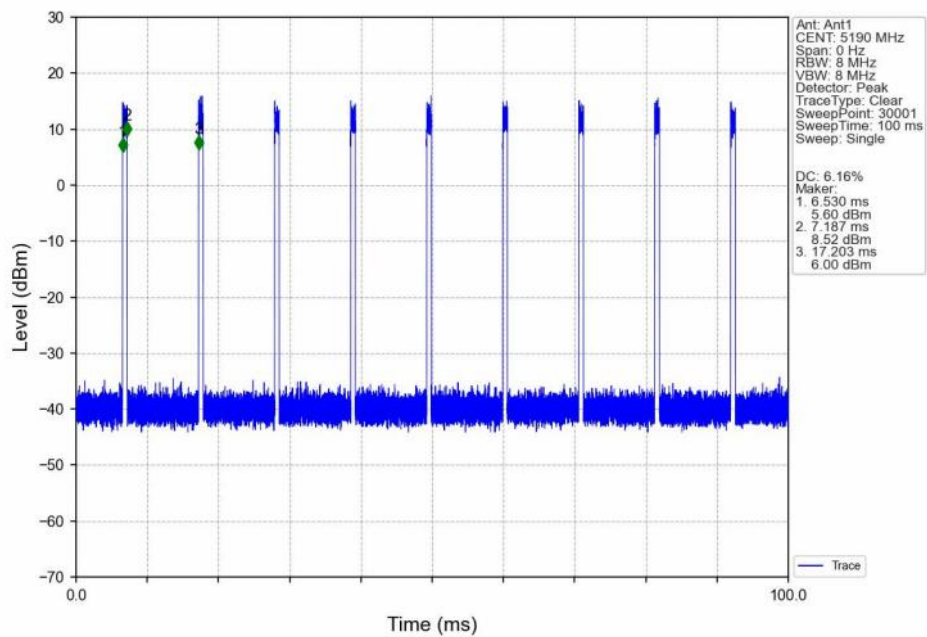
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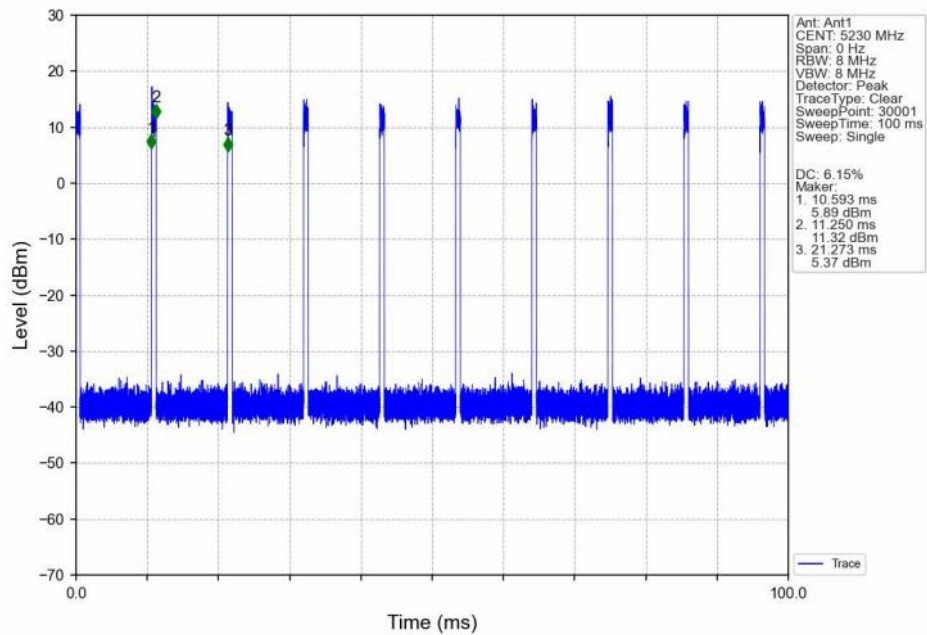
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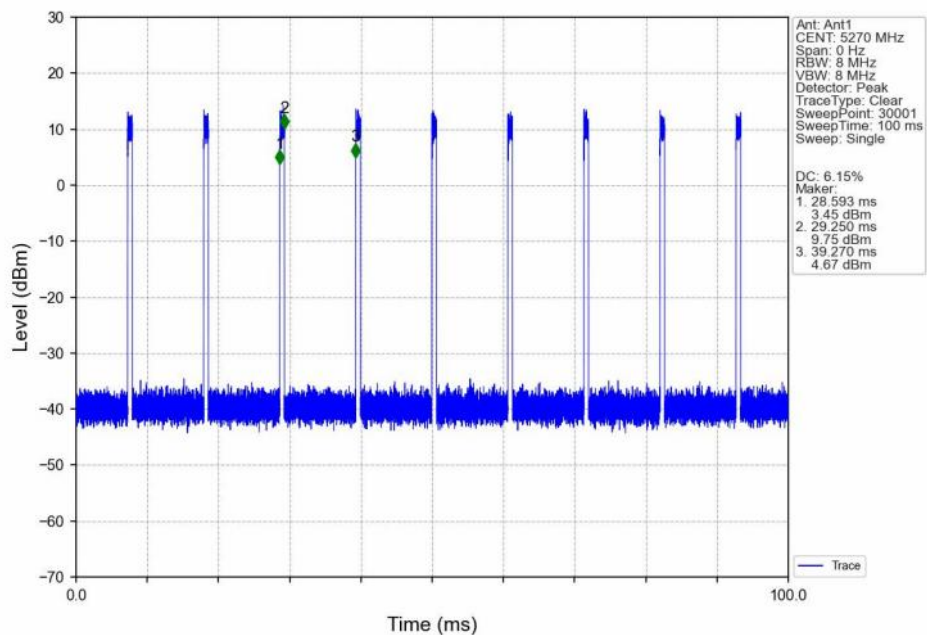
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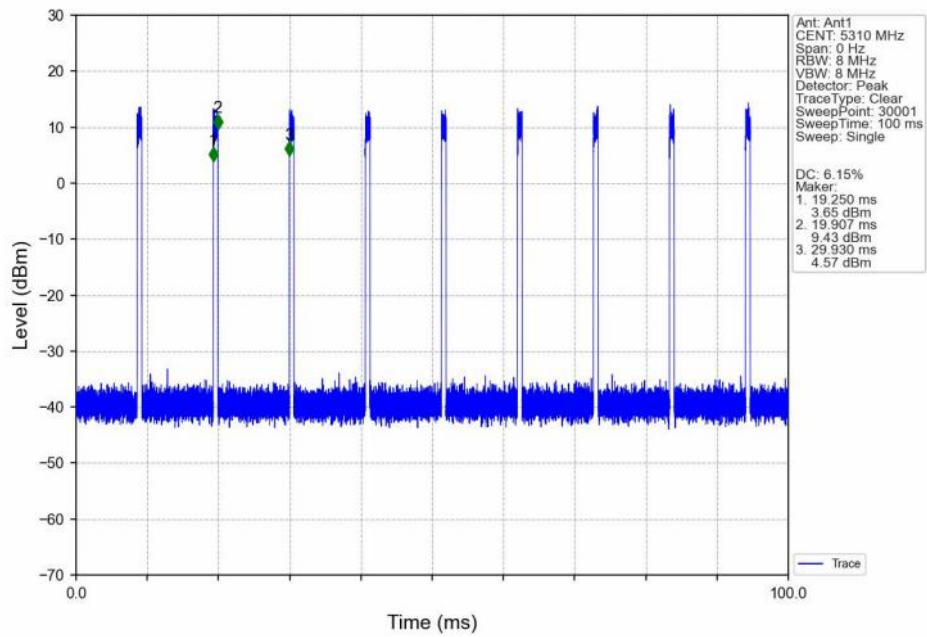
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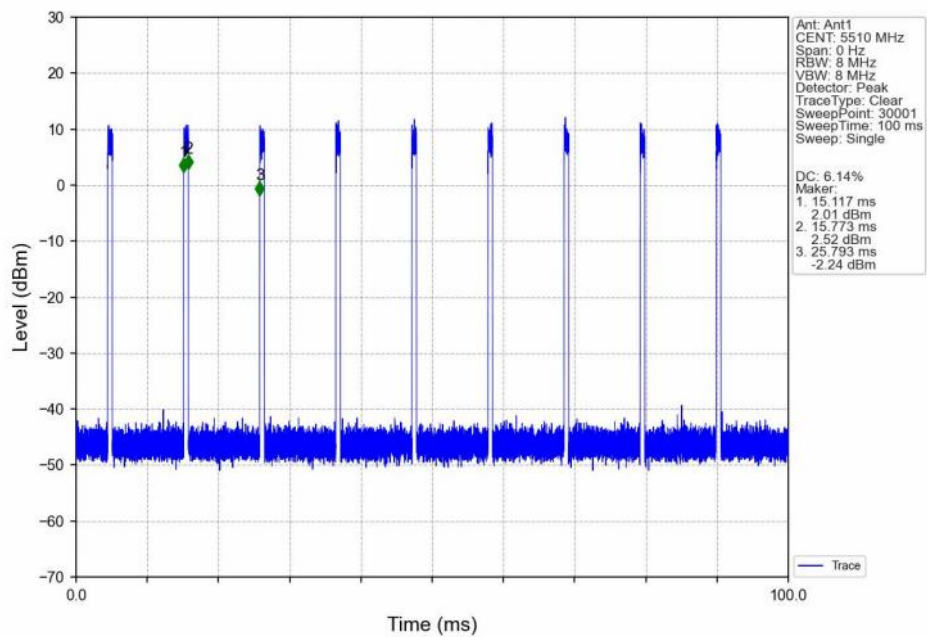
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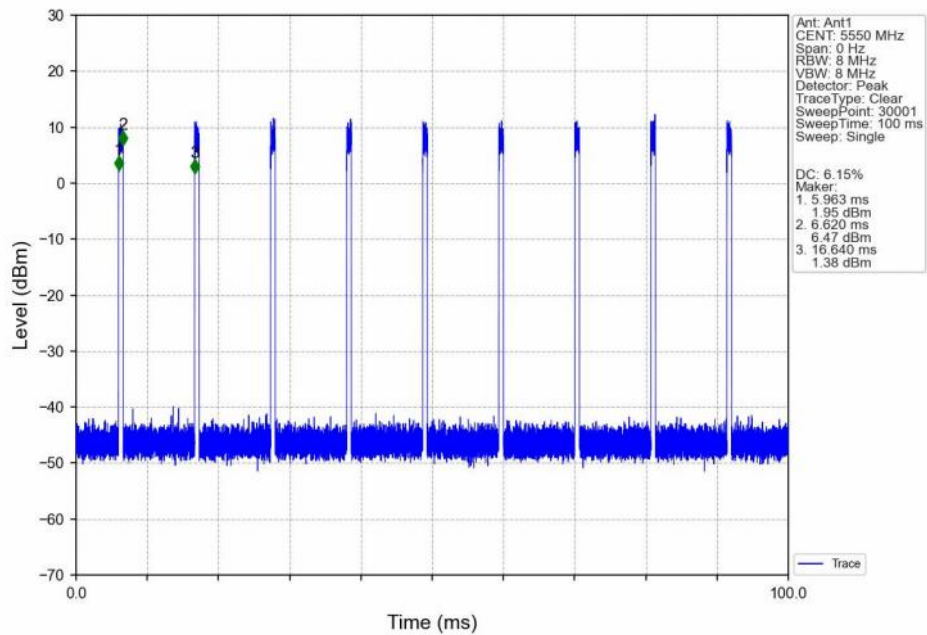
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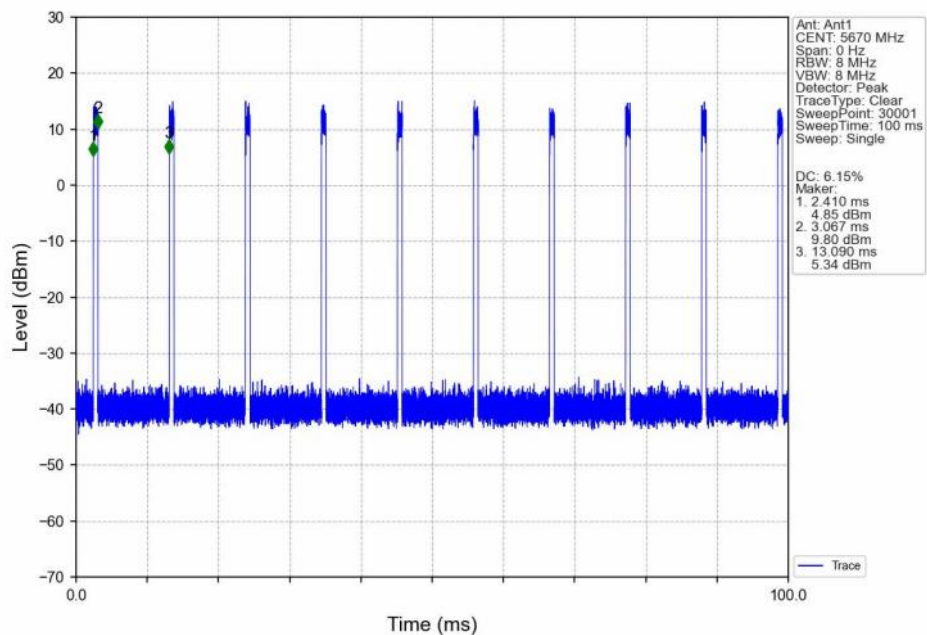
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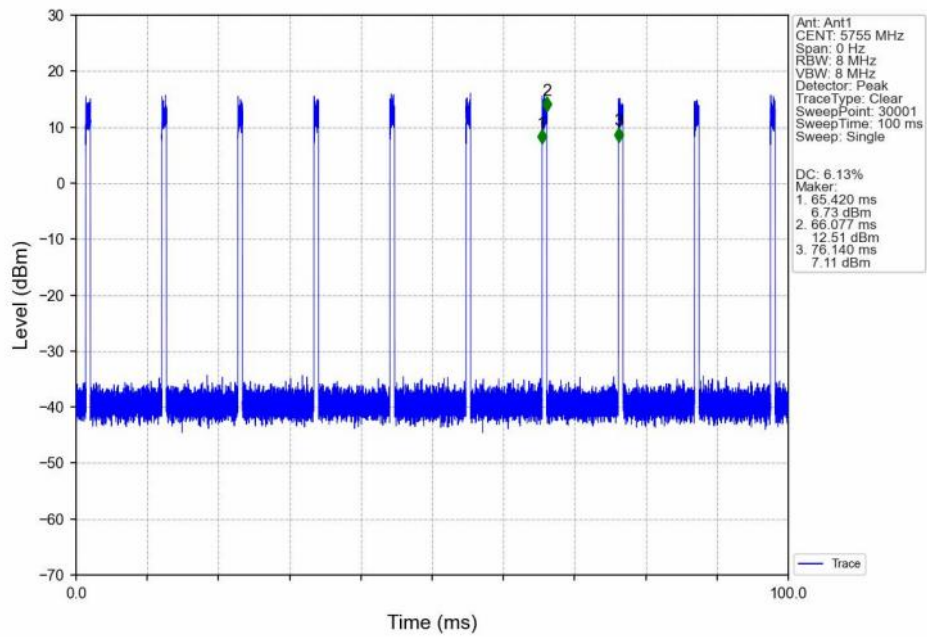
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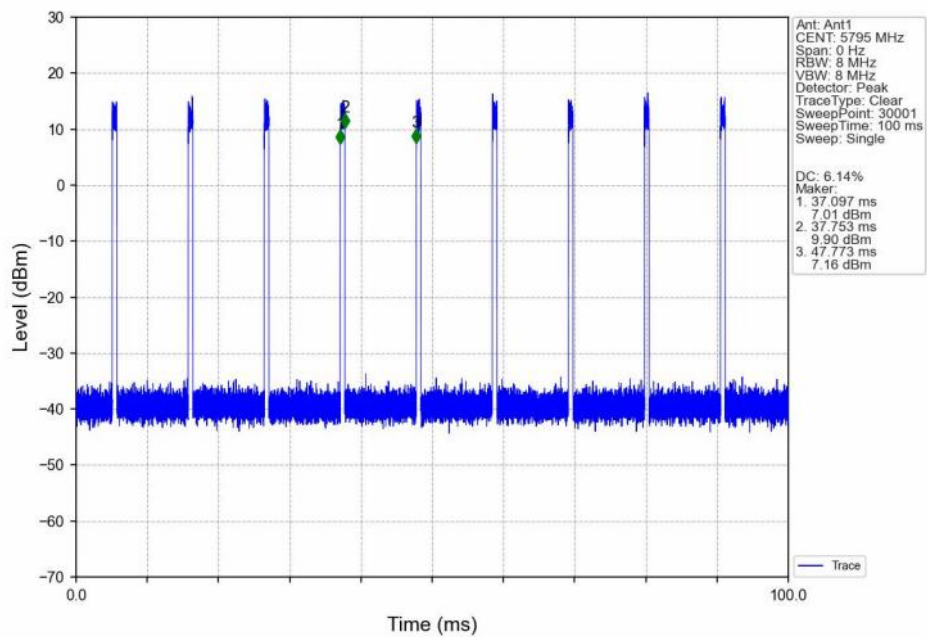
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_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	17.484	/	Pass
		5200	1	17.419	/	Pass
		5240	1	17.495	/	Pass
		5260	1	17.606	/	Pass
		5300	1	17.405	/	Pass
		5320	1	17.536	/	Pass
		5500	1	17.768	/	Pass
		5580	1	17.689	/	Pass
		5700	1	17.607	/	Pass
		5745	1	17.441	/	Pass
		5785	1	17.671	/	Pass
		5825	1	17.563	/	Pass
802.11n (HT20)	SISO	5180	1	18.573	/	Pass
		5200	1	18.617	/	Pass
		5240	1	18.443	/	Pass
		5260	1	18.513	/	Pass
		5300	1	18.498	/	Pass
		5320	1	18.664	/	Pass
		5500	1	18.595	/	Pass
		5580	1	18.627	/	Pass
		5700	1	18.636	/	Pass
		5745	1	18.708	/	Pass
		5785	1	18.693	/	Pass
		5825	1	18.871	/	Pass
802.11n (HT40)	SISO	5190	1	36.606	/	Pass
		5230	1	36.961	/	Pass
		5270	1	36.773	/	Pass
		5310	1	36.949	/	Pass
		5510	1	37.151	/	Pass
		5550	1	37.002	/	Pass
		5670	1	36.986	/	Pass
		5755	1	37.216	/	Pass
		5795	1	37.091	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.746	/	Pass
		5200	1	18.555	/	Pass
		5240	1	18.635	/	Pass
		5260	1	18.537	/	Pass
		5300	1	18.584	/	Pass
		5320	1	18.657	/	Pass
		5500	1	18.796	/	Pass
		5580	1	18.678	/	Pass
		5700	1	18.667	/	Pass
		5745	1	18.834	/	Pass
		5785	1	18.957	/	Pass
		5825	1	18.800	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.860	/	Pass
		5230	1	37.125	/	Pass
		5270	1	36.914	/	Pass
		5310	1	36.884	/	Pass
		5510	1	37.295	/	Pass

		5550	1	37.100	/	Pass
		5670	1	37.032	/	Pass
		5755	1	36.965	/	Pass
		5795	1	36.993	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	23.024	/	Pass
		5200	1	22.942	/	Pass
		5240	1	24.322	/	Pass
		5260	1	22.063	/	Pass
		5300	1	22.255	/	Pass
		5320	1	22.104	/	Pass
		5500	1	22.945	/	Pass
		5580	1	24.069	/	Pass
802.11n (HT20)	SISO	5700	1	24.511	/	Pass
		5180	1	24.002	/	Pass
		5200	1	22.174	/	Pass
		5240	1	23.922	/	Pass
		5260	1	22.703	/	Pass
		5300	1	23.342	/	Pass
		5320	1	24.260	/	Pass
		5500	1	24.556	/	Pass
802.11n (HT40)	SISO	5580	1	24.915	/	Pass
		5700	1	24.767	/	Pass
		5190	1	44.172	/	Pass
		5230	1	44.241	/	Pass
		5270	1	43.645	/	Pass
		5310	1	43.814	/	Pass
		5510	1	44.278	/	Pass
		5550	1	43.865	/	Pass
802.11ac (VHT20)	SISO	5670	1	43.810	/	Pass
		5180	1	23.718	/	Pass
		5200	1	23.526	/	Pass
		5240	1	23.736	/	Pass
		5260	1	23.971	/	Pass
		5300	1	22.842	/	Pass
		5320	1	23.515	/	Pass
		5500	1	25.477	/	Pass
802.11ac (VHT40)	SISO	5580	1	24.624	/	Pass
		5700	1	23.453	/	Pass
		5190	1	44.176	/	Pass
		5230	1	41.632	/	Pass
		5270	1	44.279	/	Pass
		5310	1	44.189	/	Pass
		5510	1	45.111	/	Pass
		5550	1	45.948	/	Pass
		5670	1	43.915	/	Pass

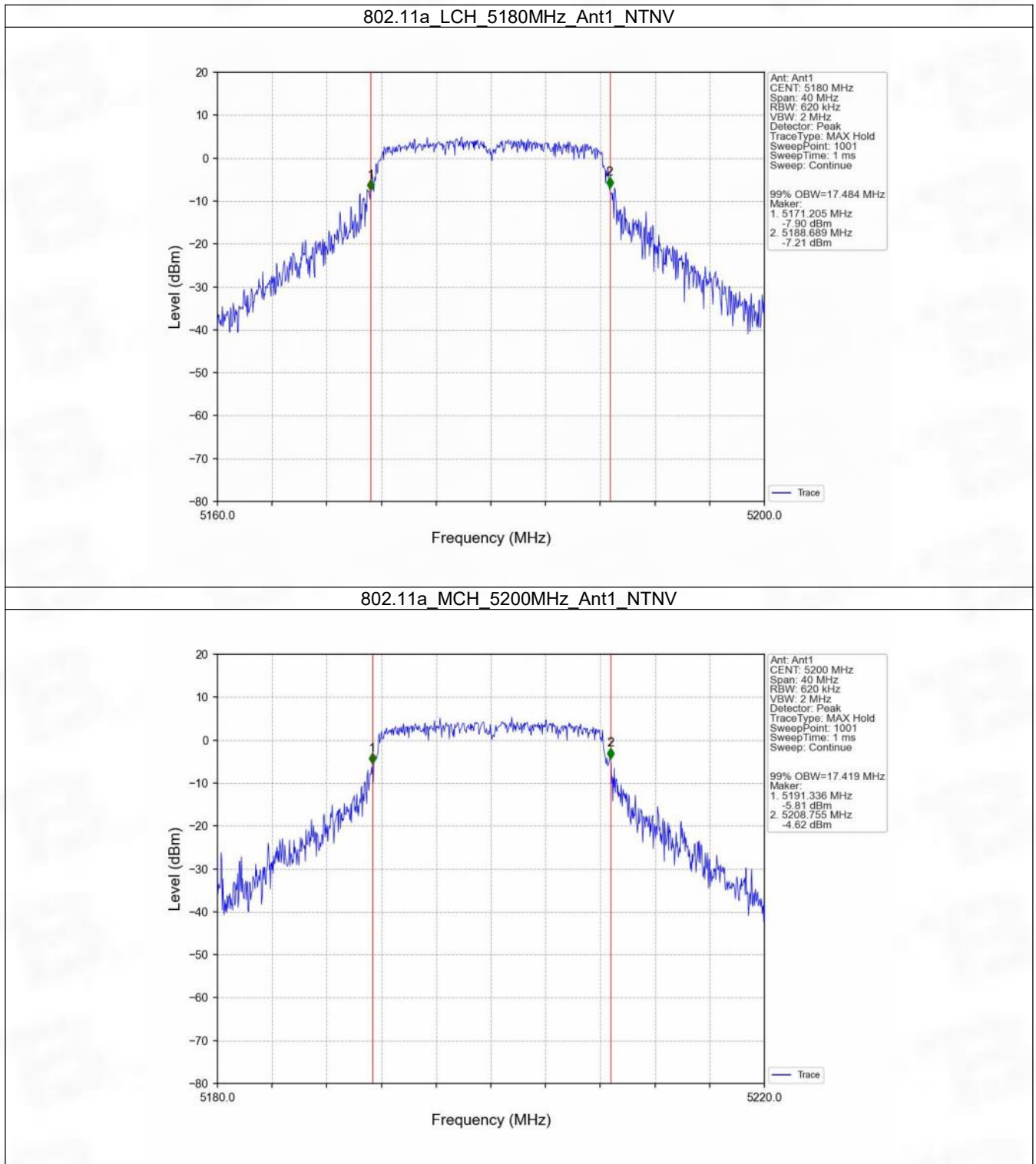
2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.591	>=0.5	Pass
		5785	1	16.549	>=0.5	Pass
		5825	1	16.448	>=0.5	Pass
802.11n	SISO	5745	1	17.852	>=0.5	Pass

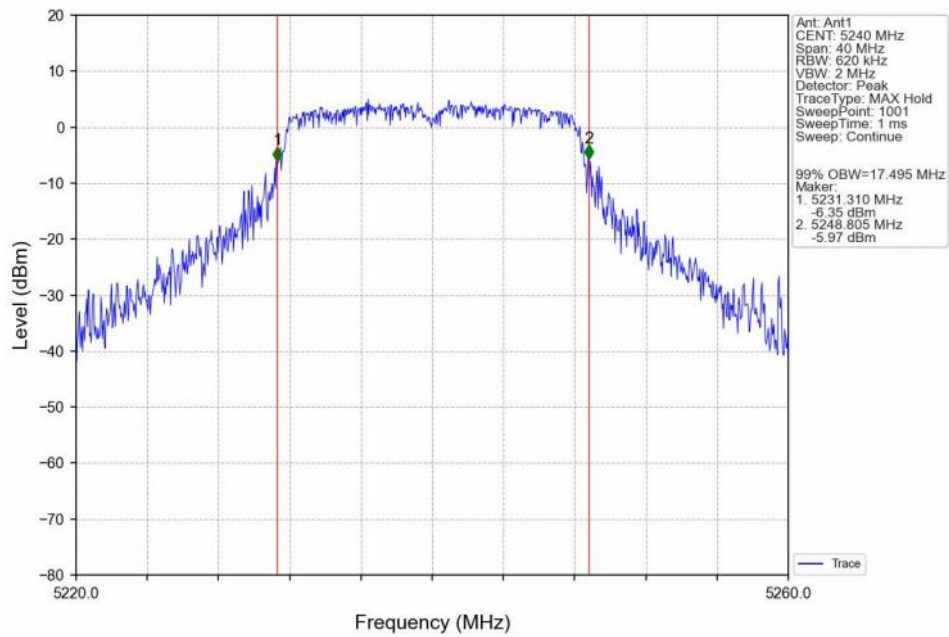
(HT20)		5785	1	17.735	≥ 0.5	Pass
		5825	1	17.660	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.219	≥ 0.5	Pass
		5795	1	36.325	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.781	≥ 0.5	Pass
		5785	1	17.650	≥ 0.5	Pass
		5825	1	17.636	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.368	≥ 0.5	Pass
		5795	1	36.088	≥ 0.5	Pass

2.2 Test Graph

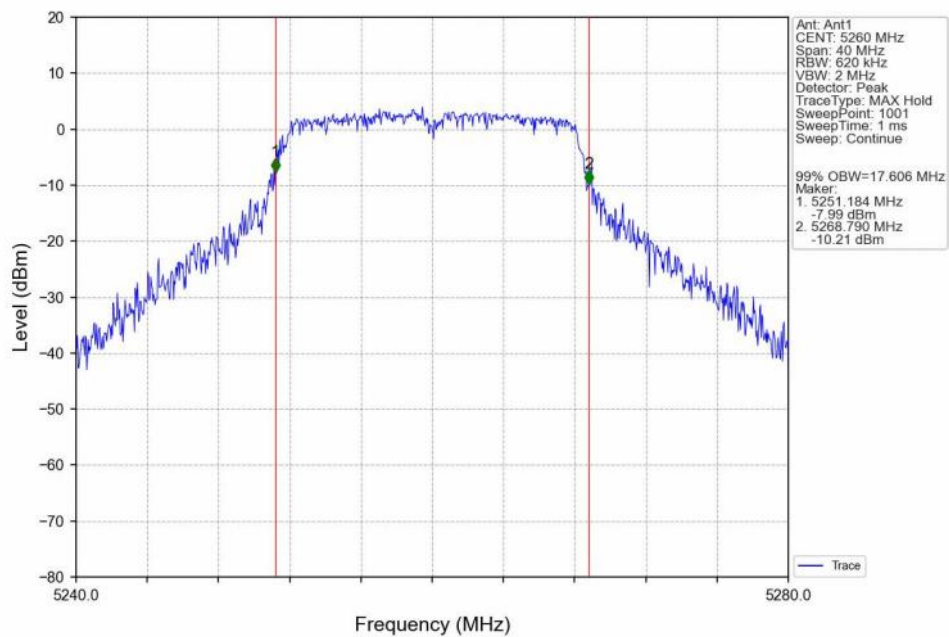
2.2.1 OBW



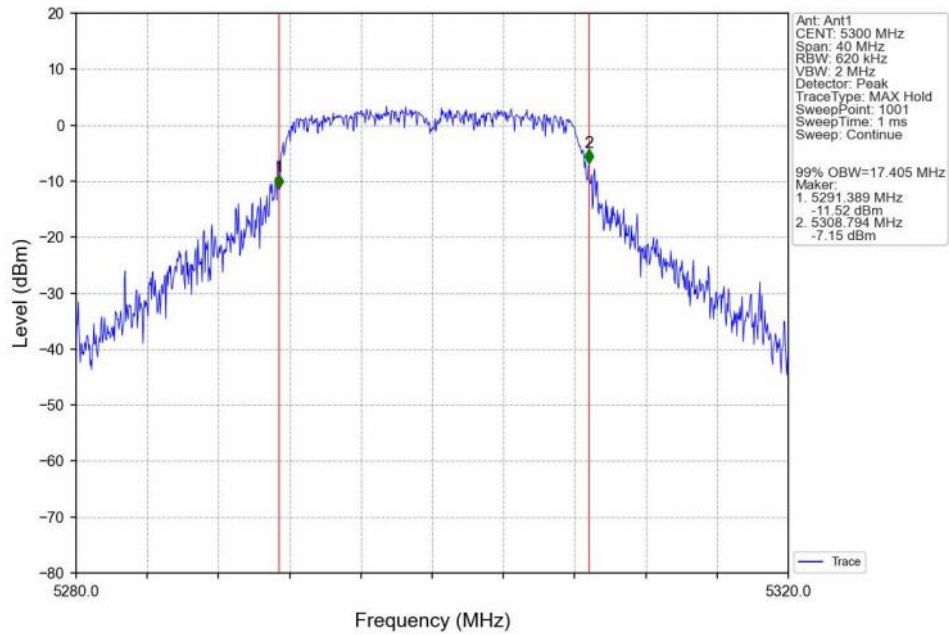
802.11a_HCH_5240MHz_Ant1_NTNV



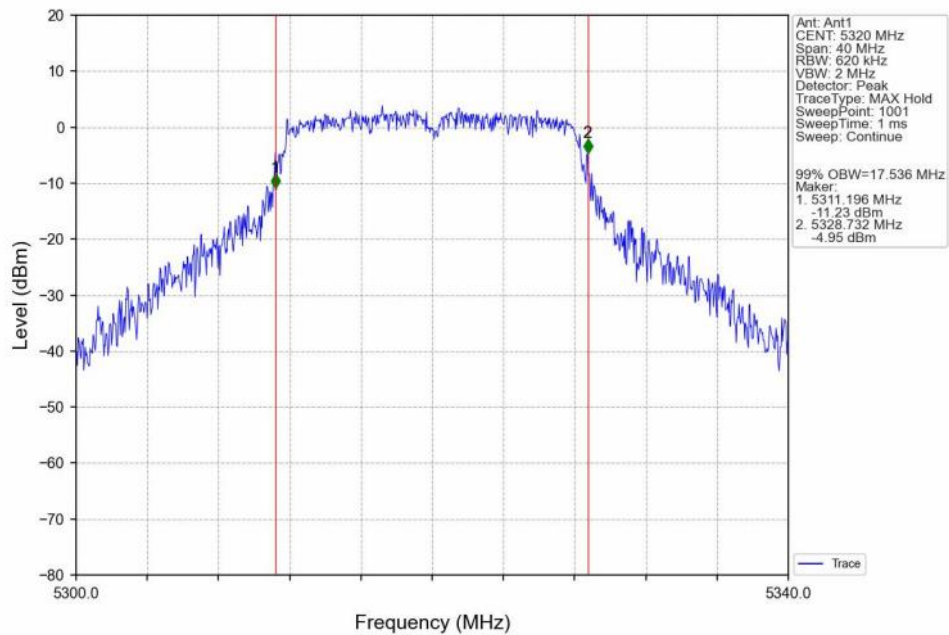
802.11a_LCH_5260MHz_Ant1_NTNV



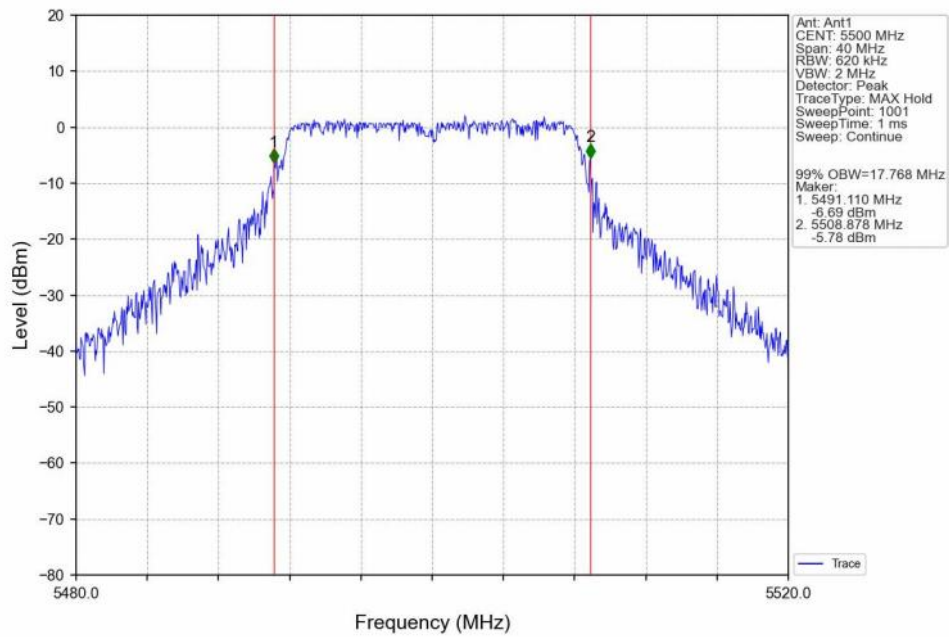
802.11a_MCH_5300MHz_Ant1_NTNV



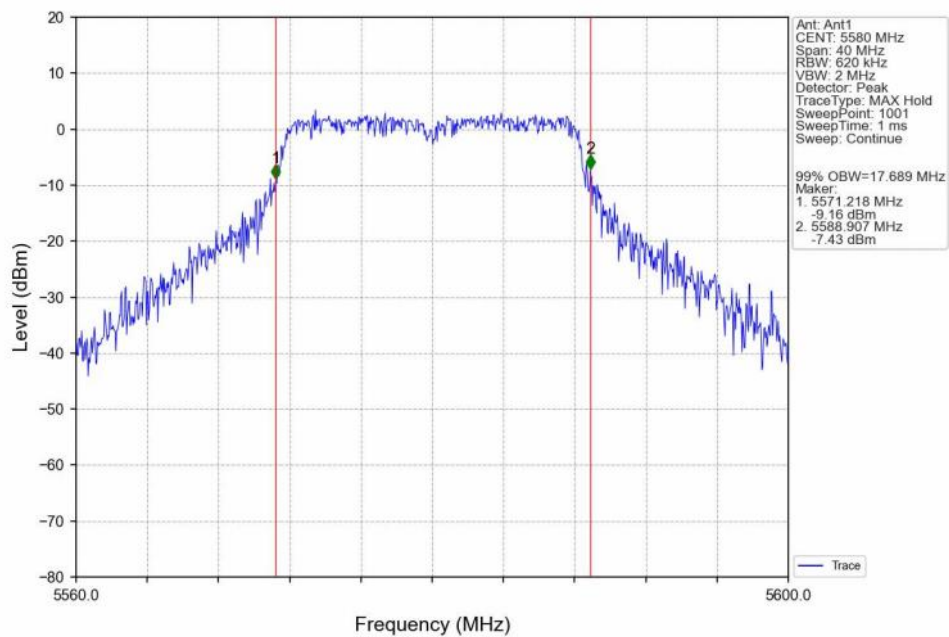
802.11a_HCH_5320MHz_Ant1_NTNV



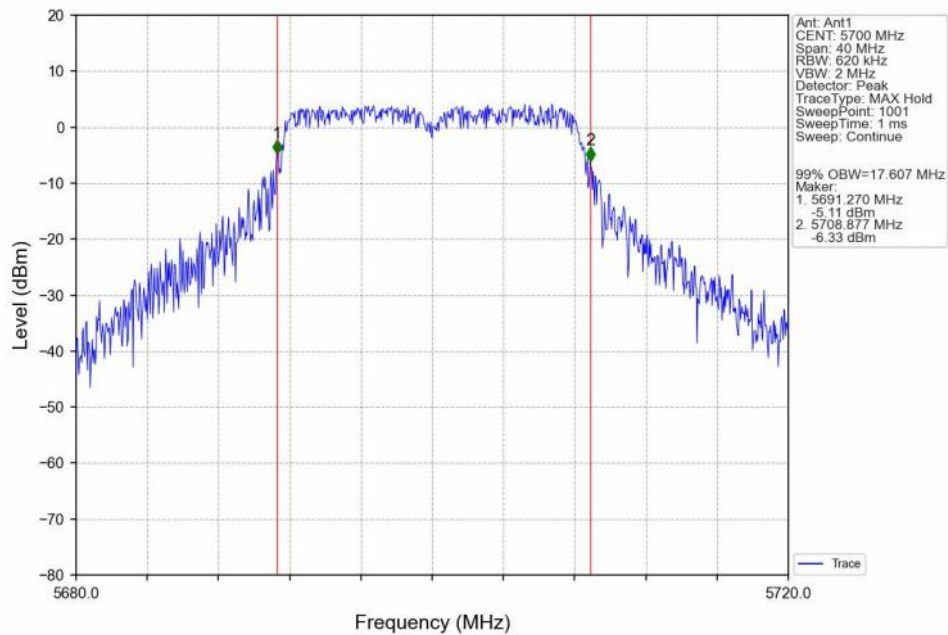
802.11a_LCH_5500MHz_Ant1_NTNV



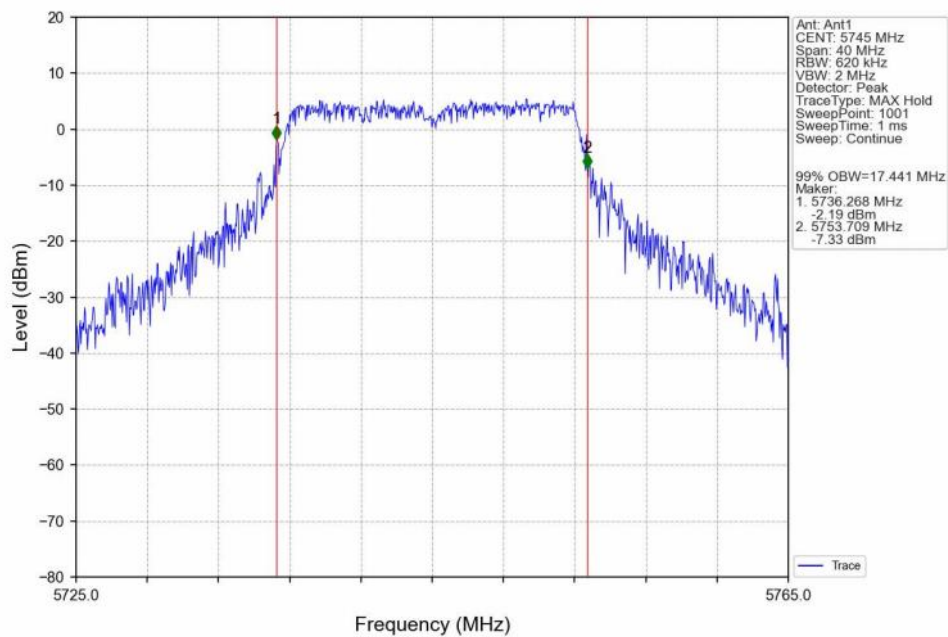
802.11a_MCH_5580MHz_Ant1_NTNV



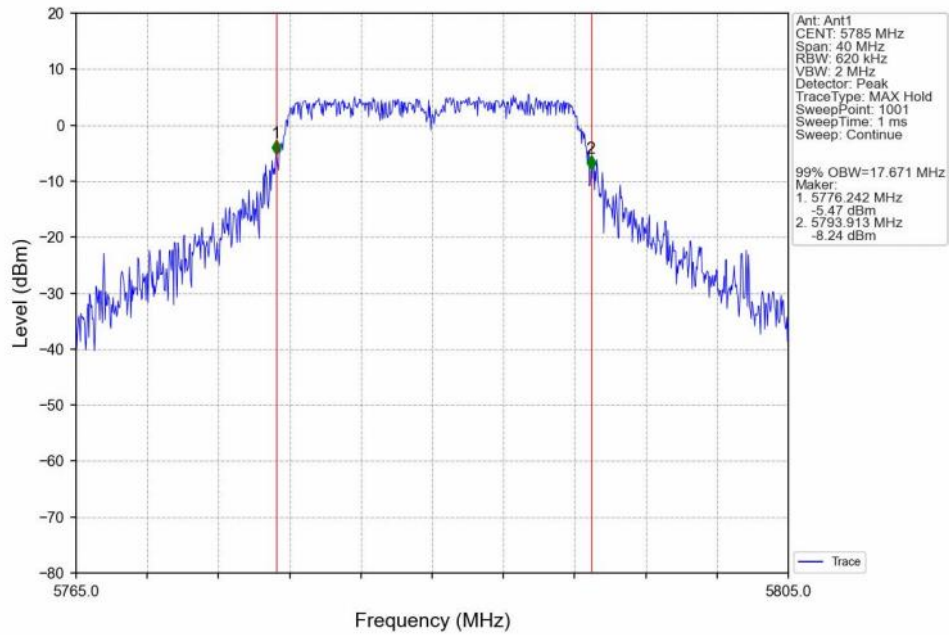
802.11a_HCH_5700MHz_Ant1_NTNV



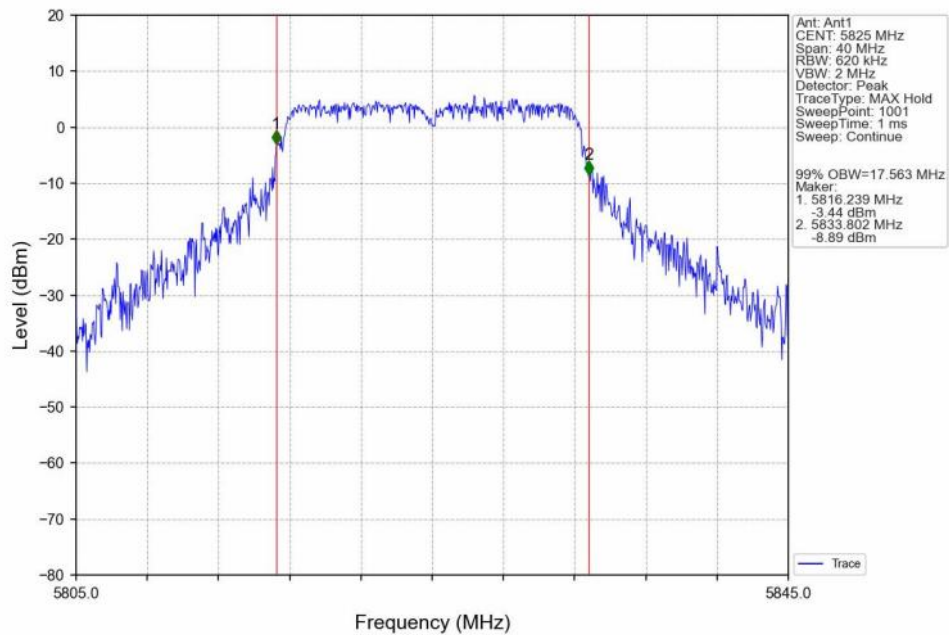
802.11a_LCH_5745MHz_Ant1_NTNV



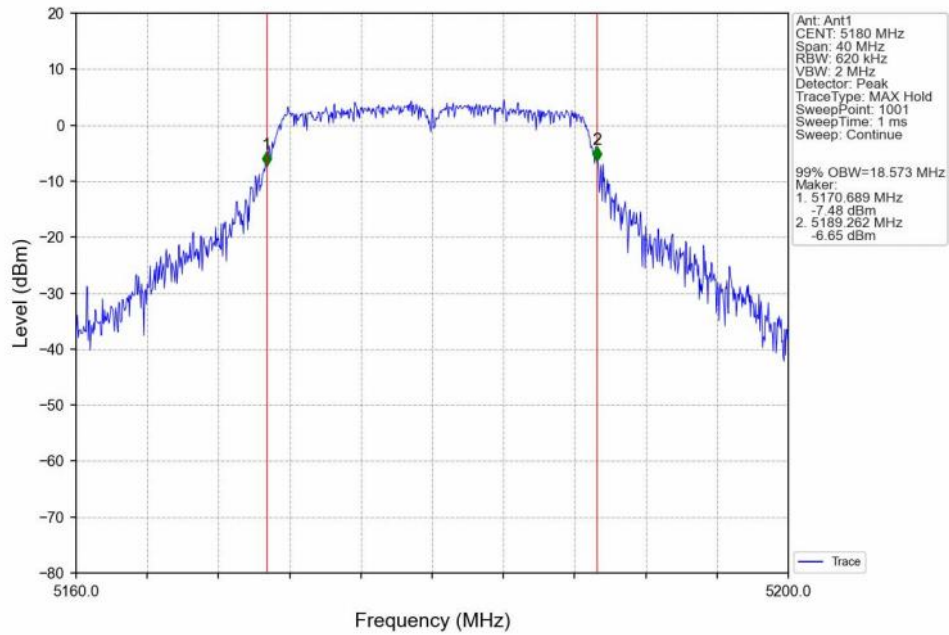
802.11a_MCH_5785MHz_Ant1_NTNV



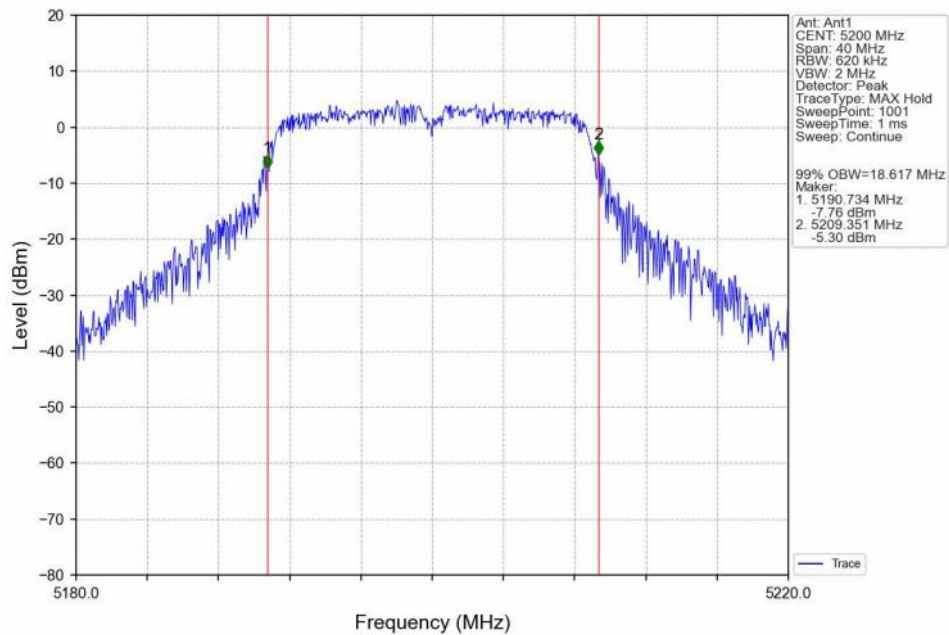
802.11a_HCH_5825MHz_Ant1_NTNV



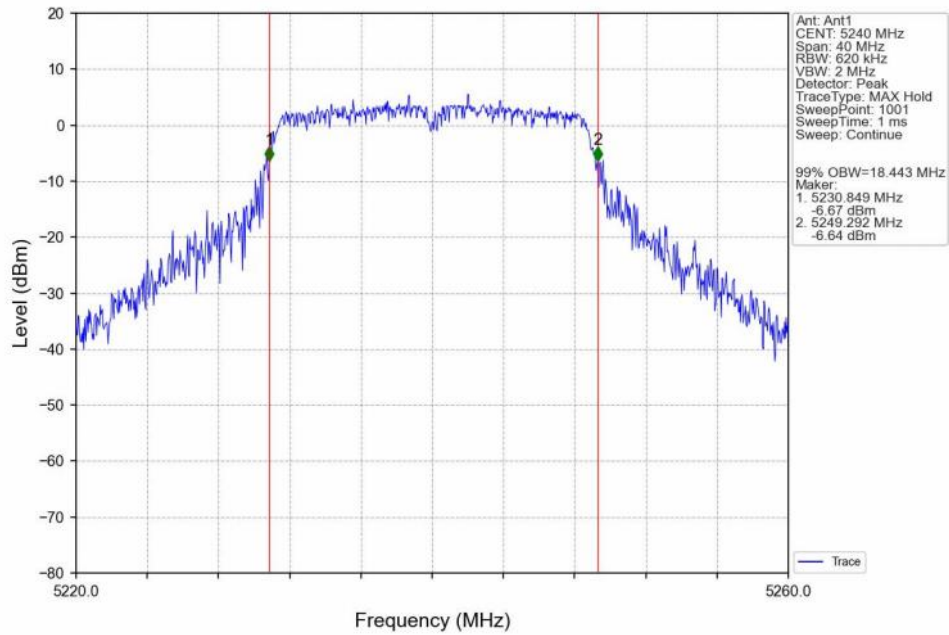
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



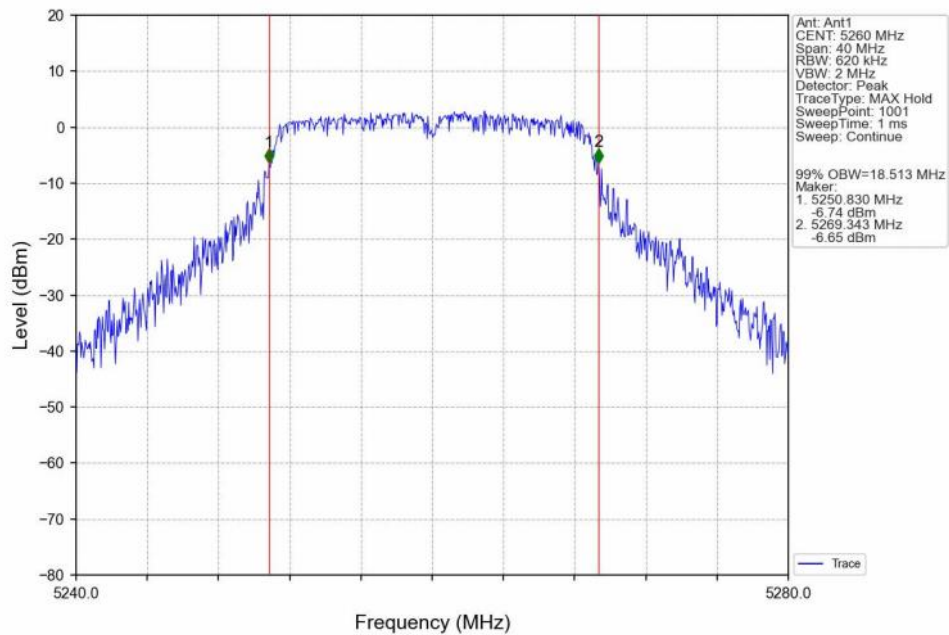
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



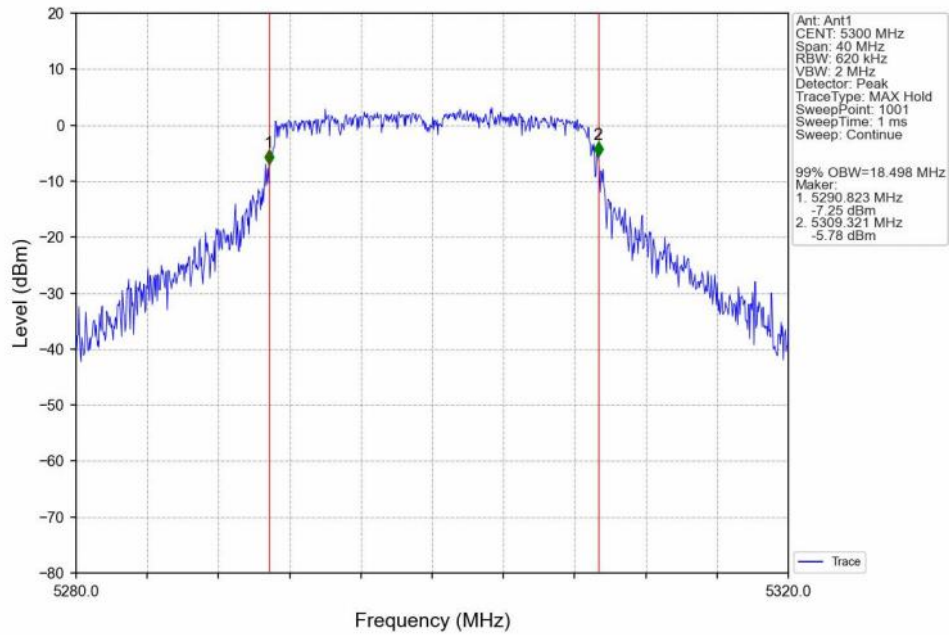
802.11n(HT20) HCH_5240MHz_Ant1_NTNV



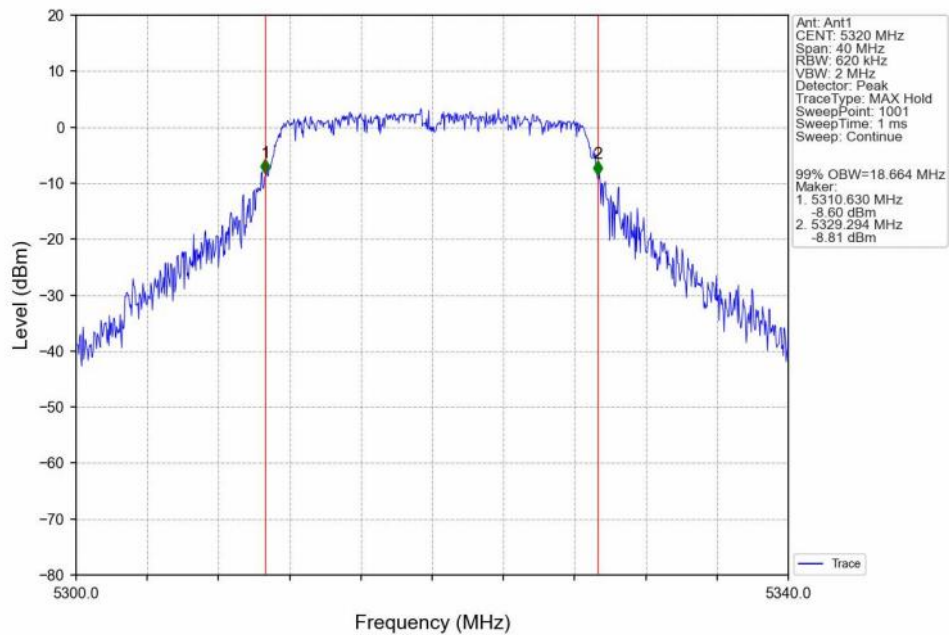
802.11n(HT20) LCH_5260MHz_Ant1_NTNV



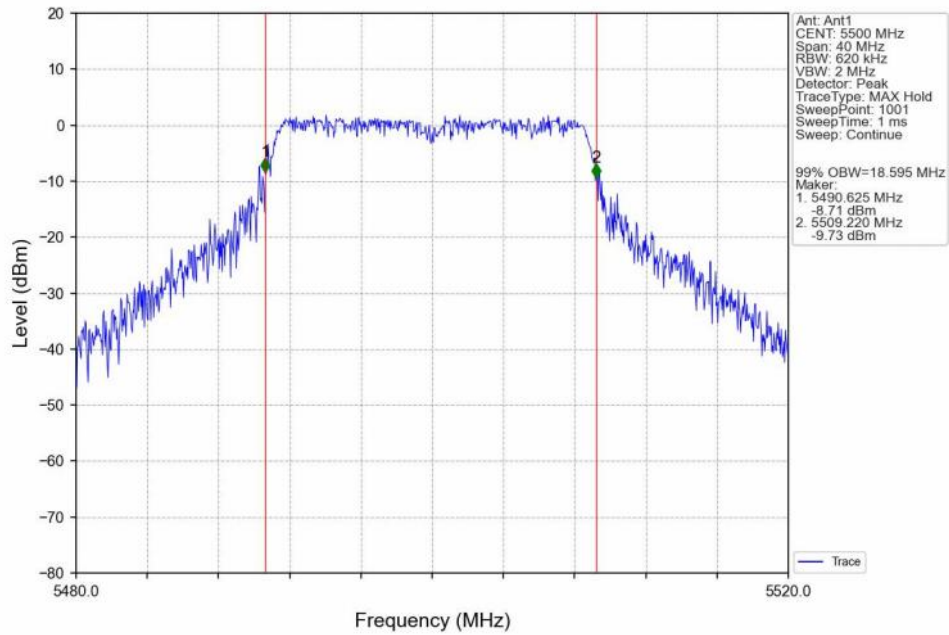
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



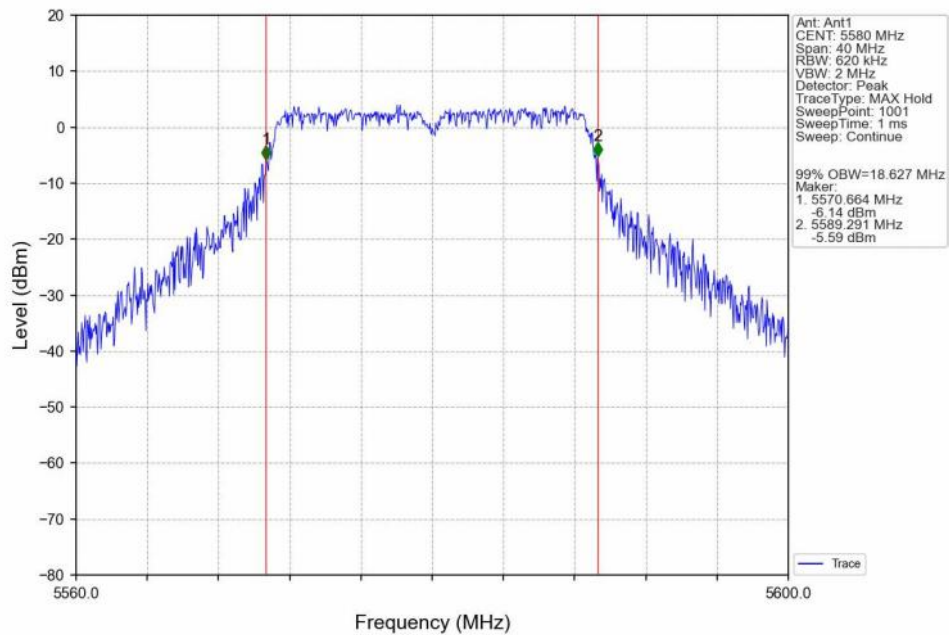
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



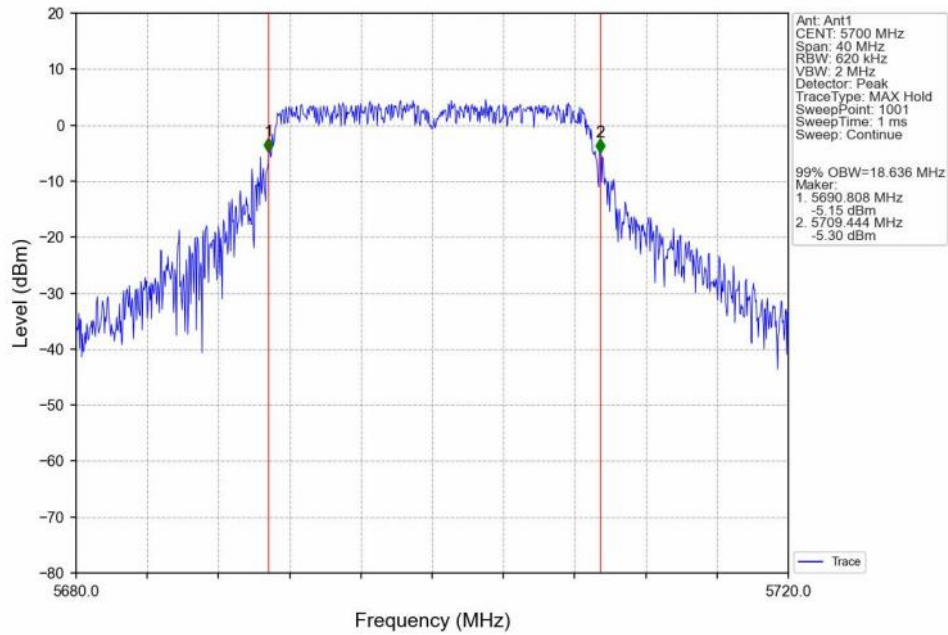
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



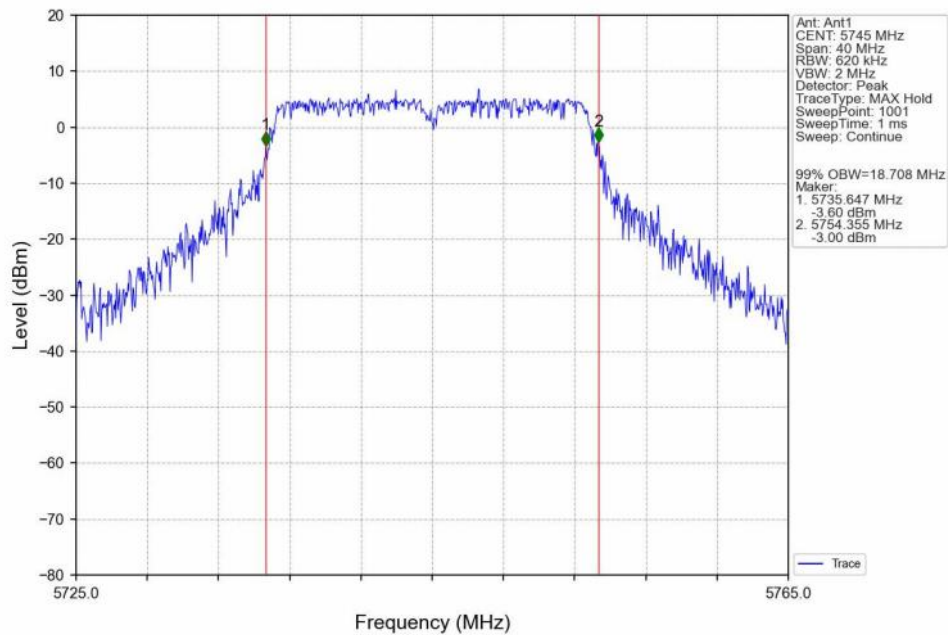
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



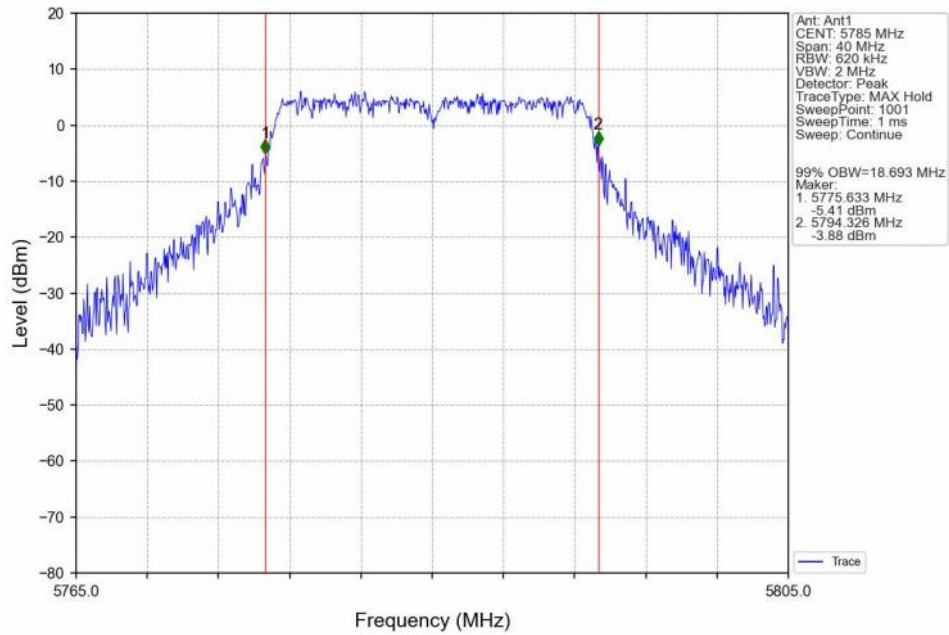
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



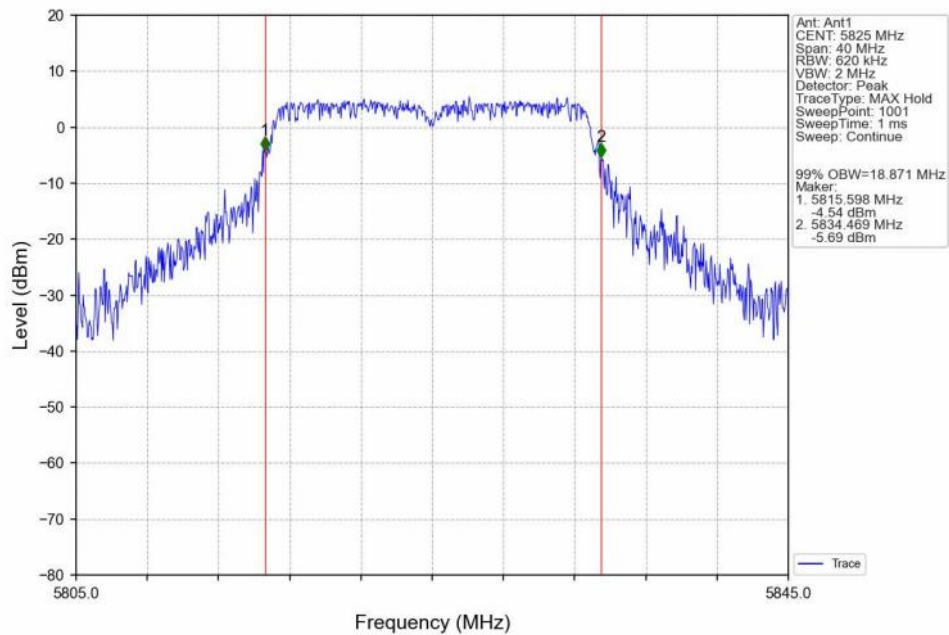
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



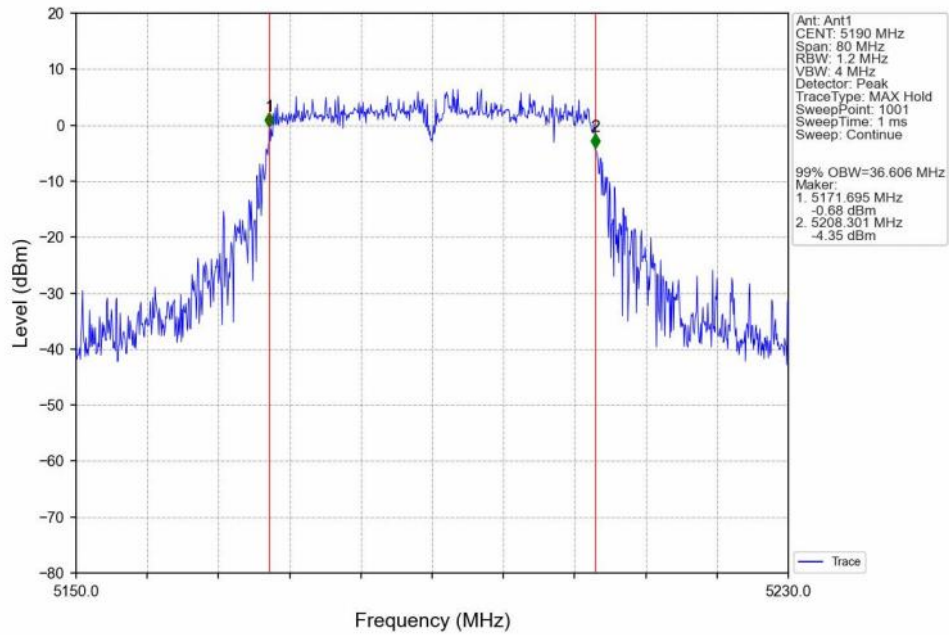
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



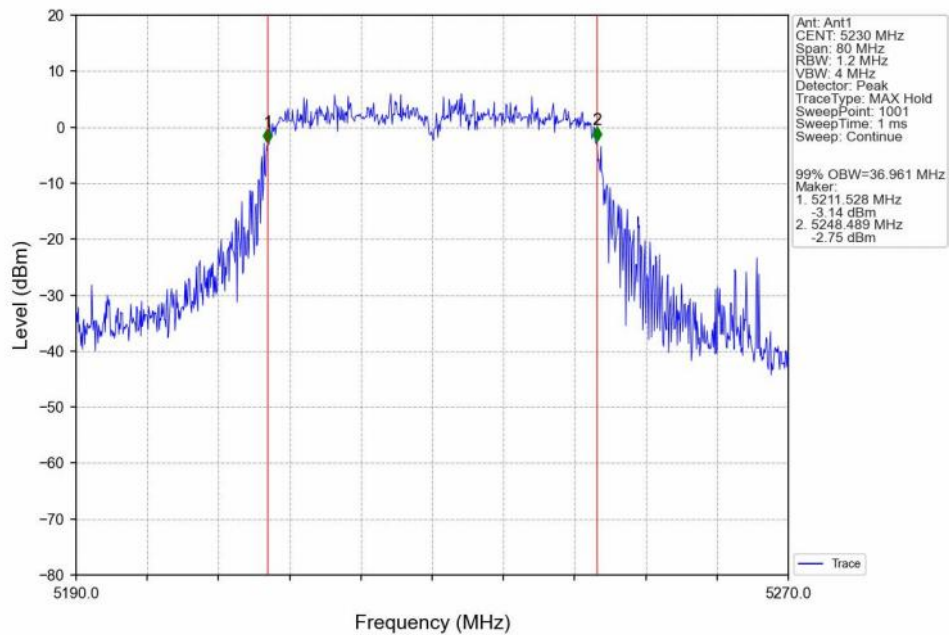
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



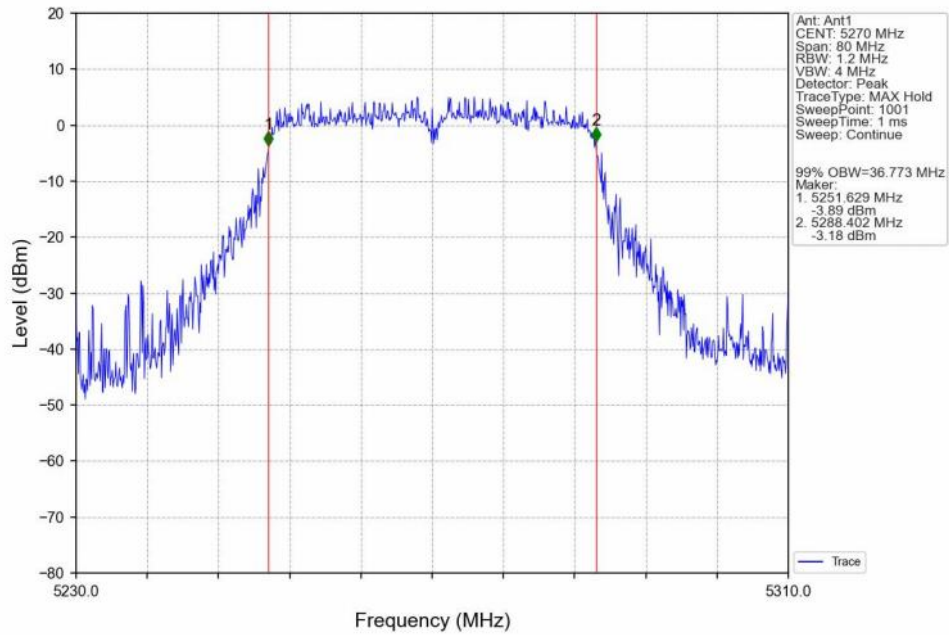
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



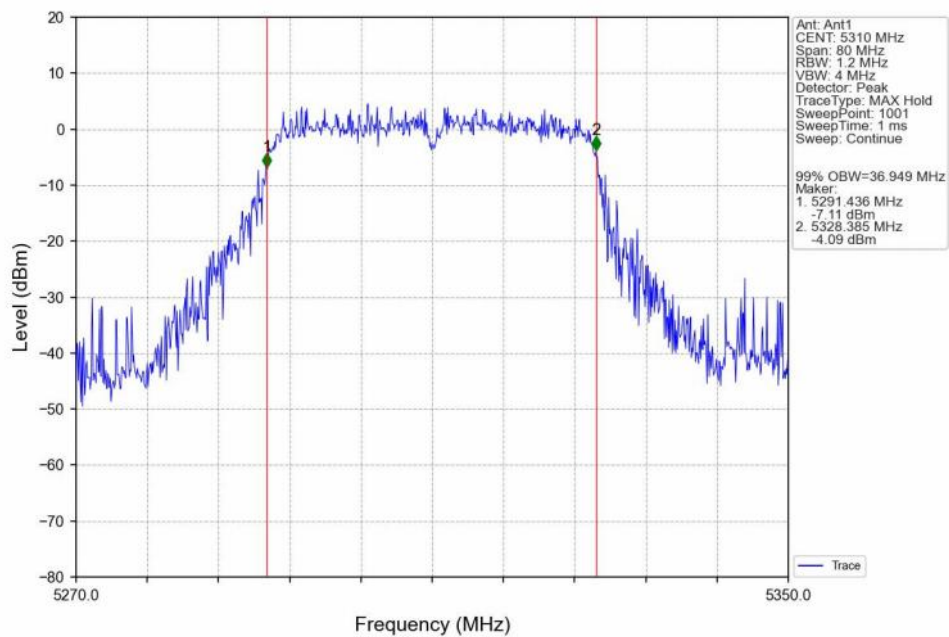
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



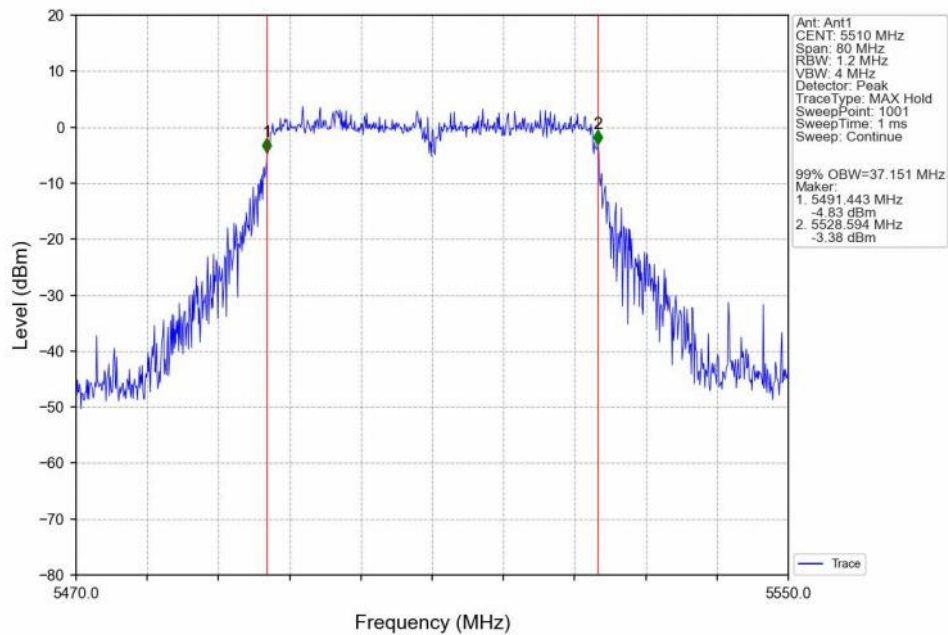
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



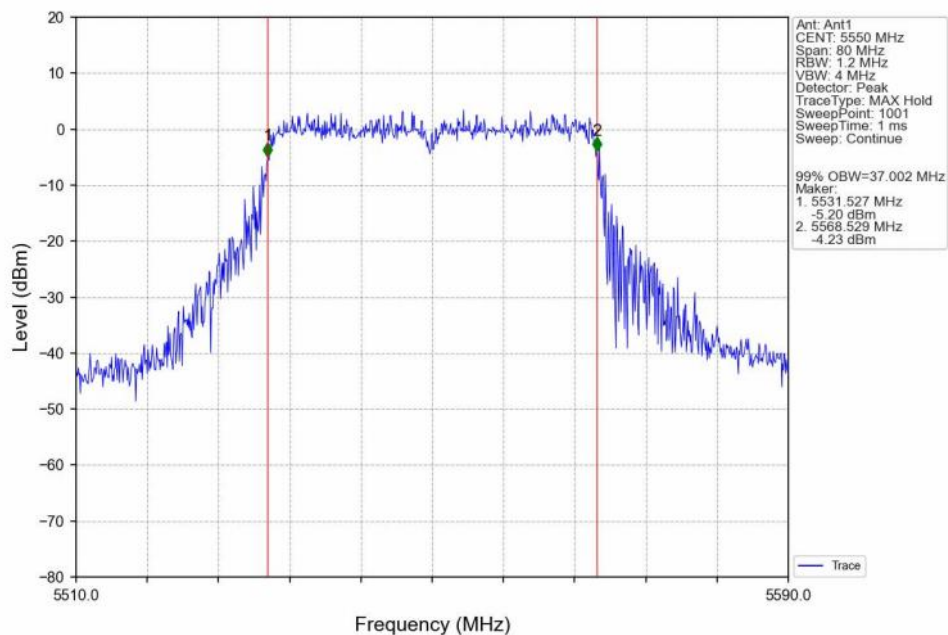
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



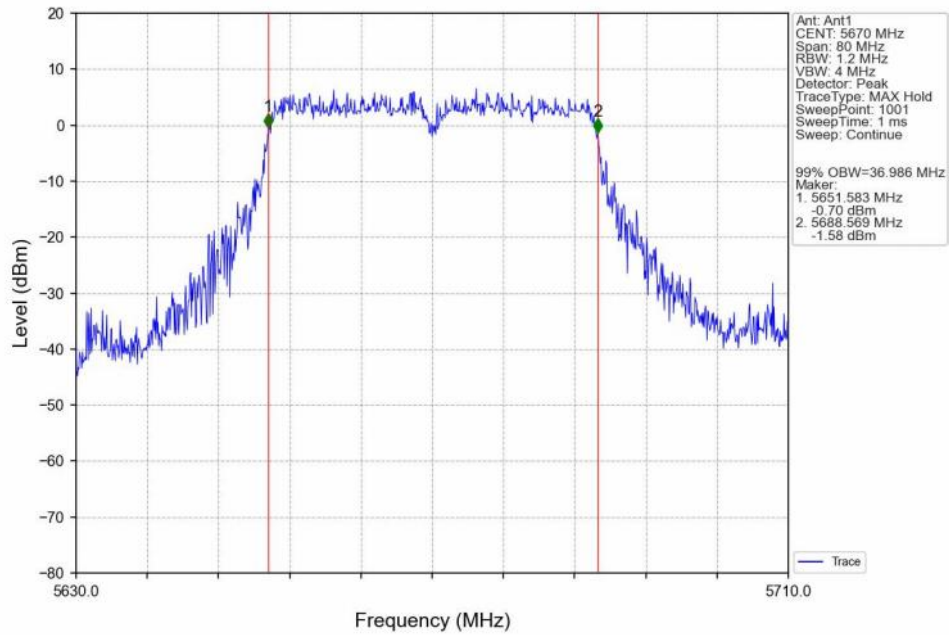
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



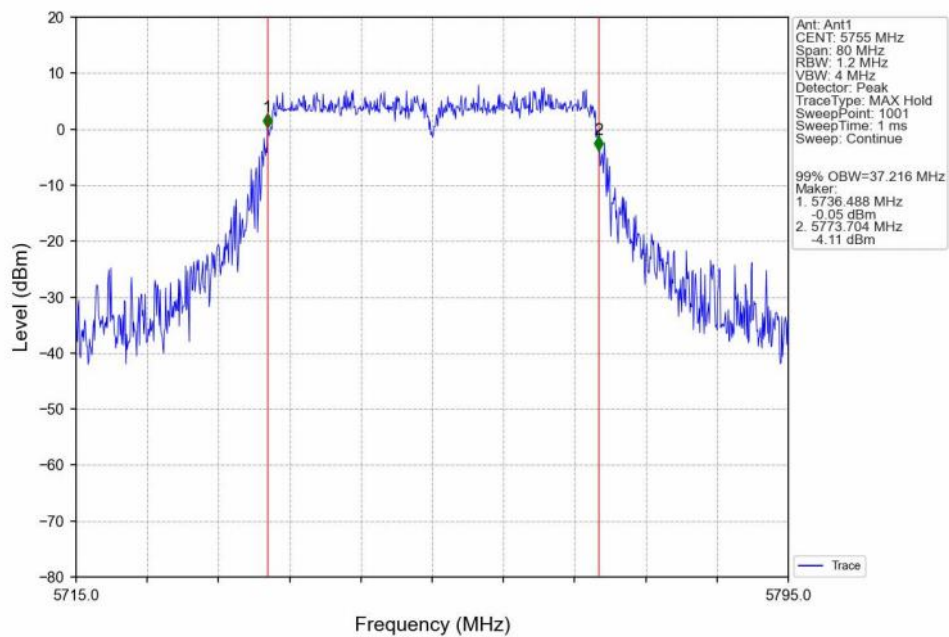
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



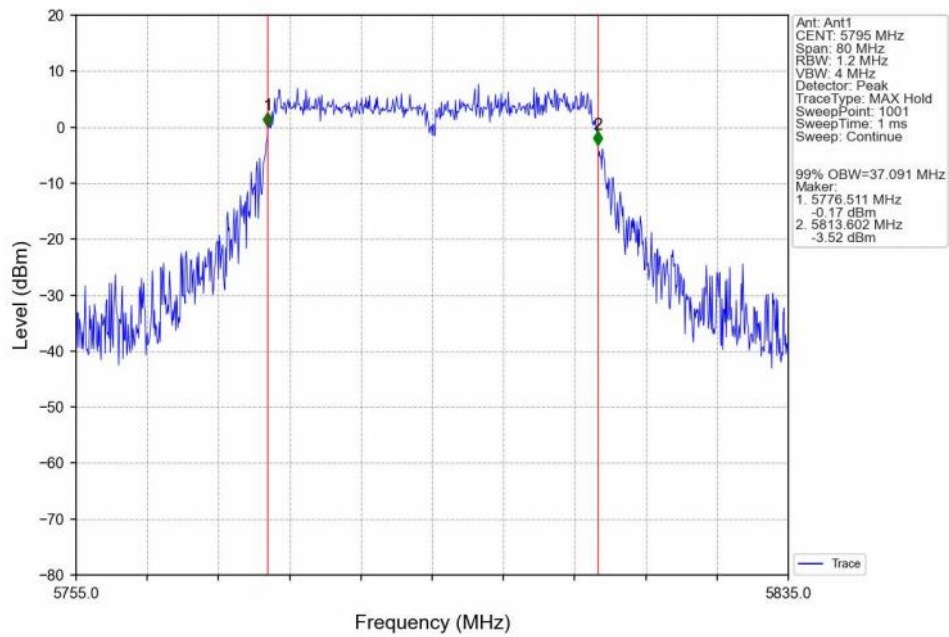
802.11n(HT40) HCH_5670MHz_Ant1_NTNV



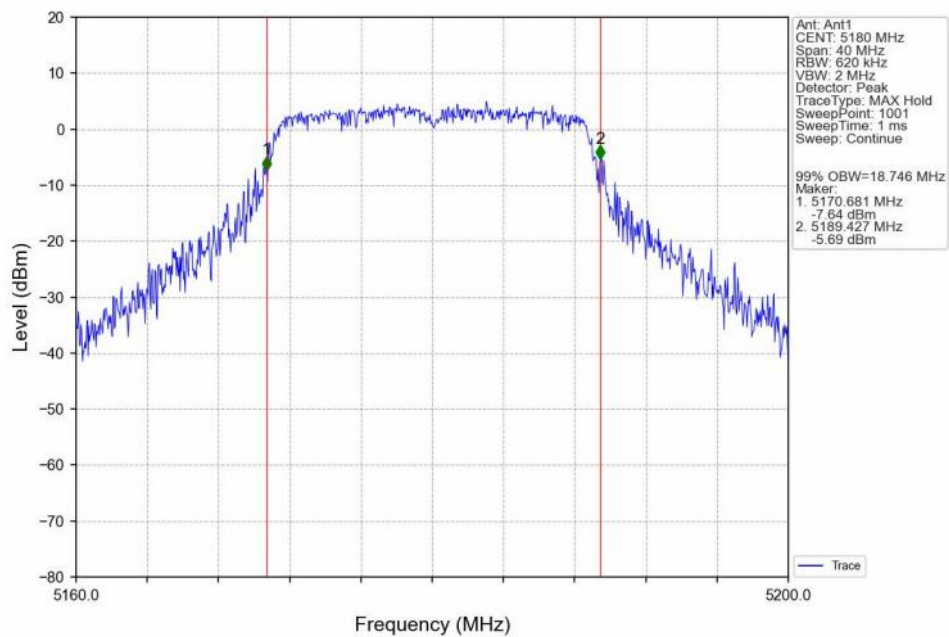
802.11n(HT40) LCH_5755MHz_Ant1_NTNV



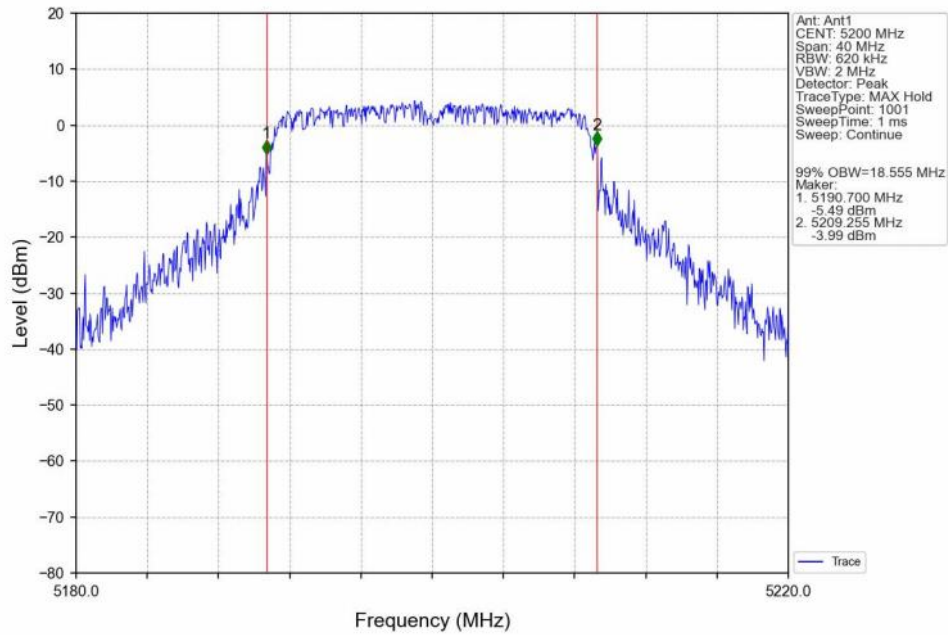
802.11n(HT40) _HCH_ 5795MHz _Ant1_ _NTNV



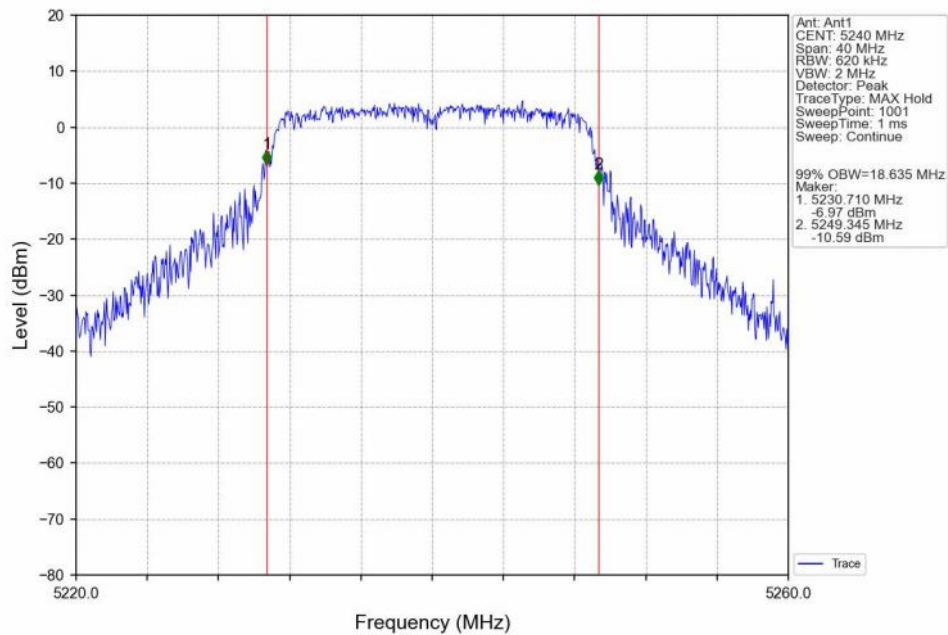
802.11ac(VHT20) _LCH_ 5180MHz _Ant1_ _NTNV



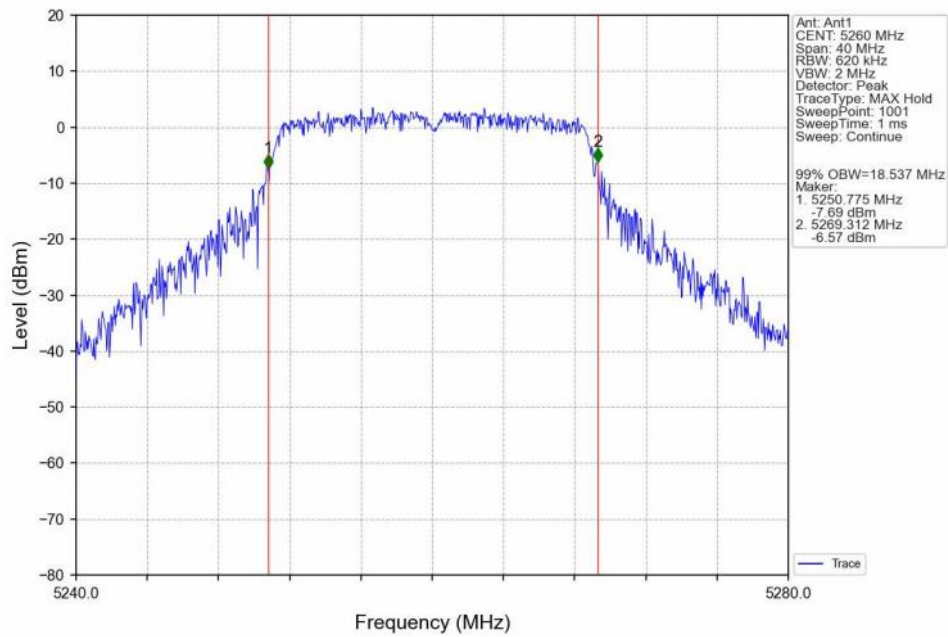
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



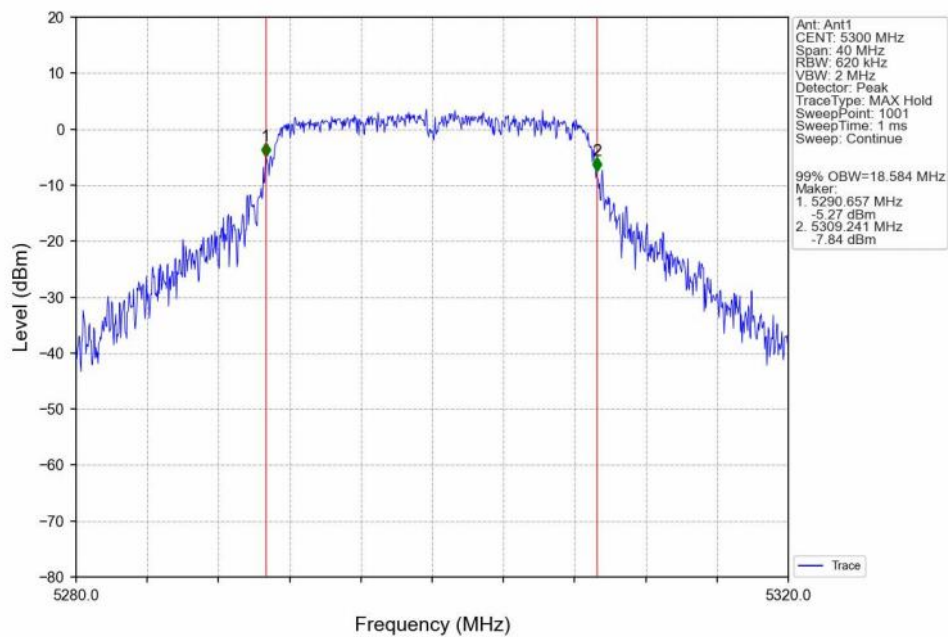
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



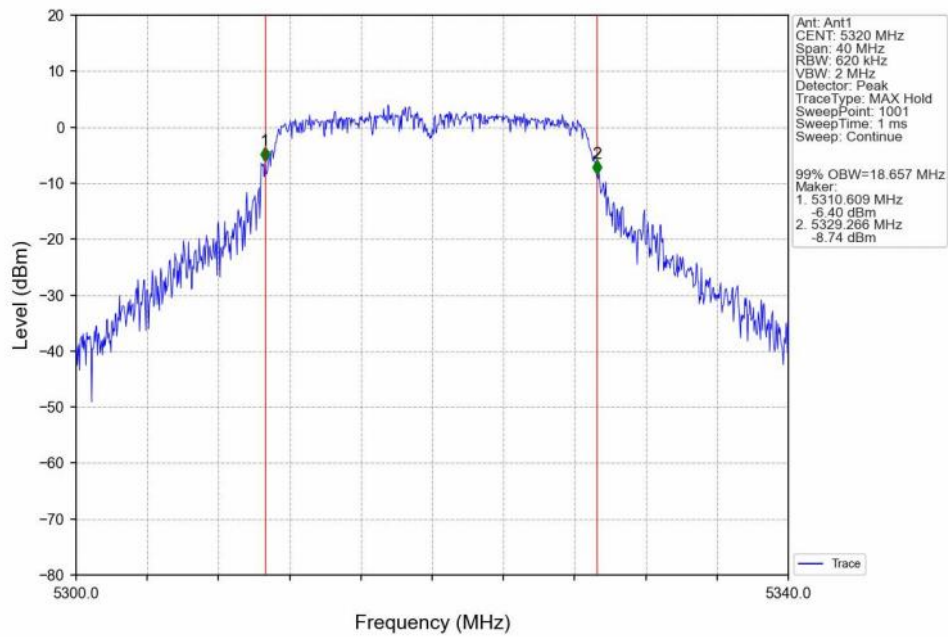
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



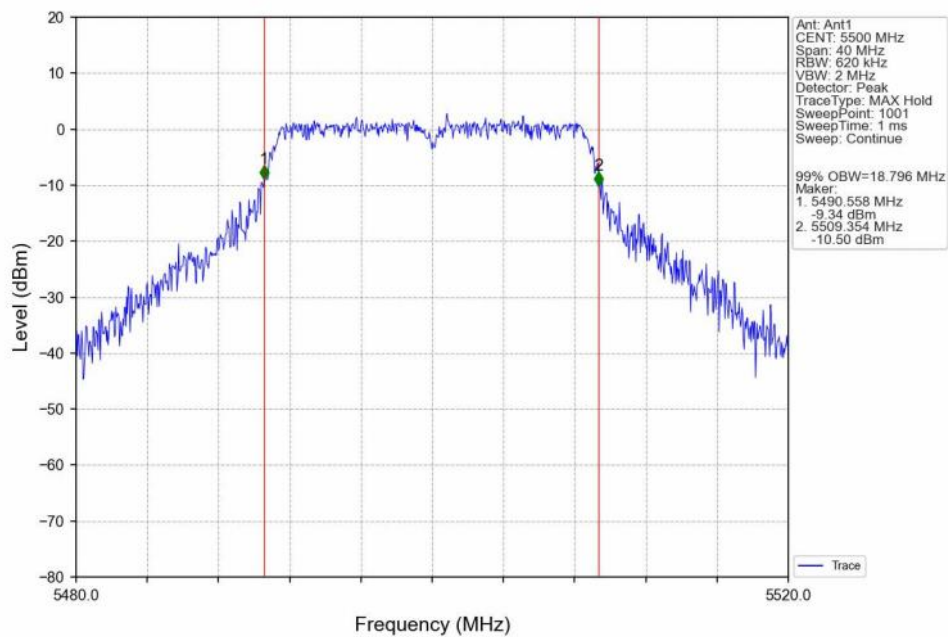
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



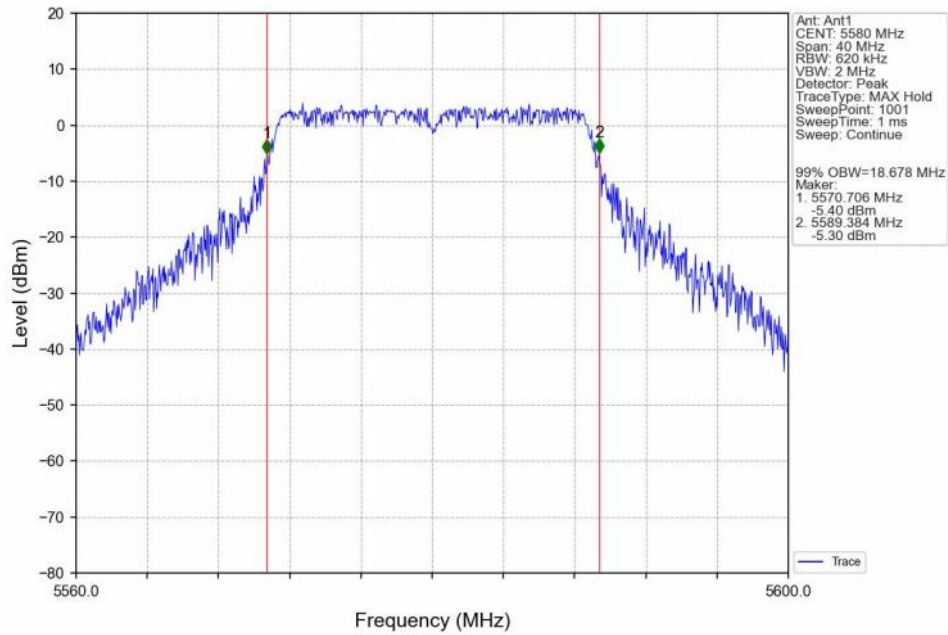
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



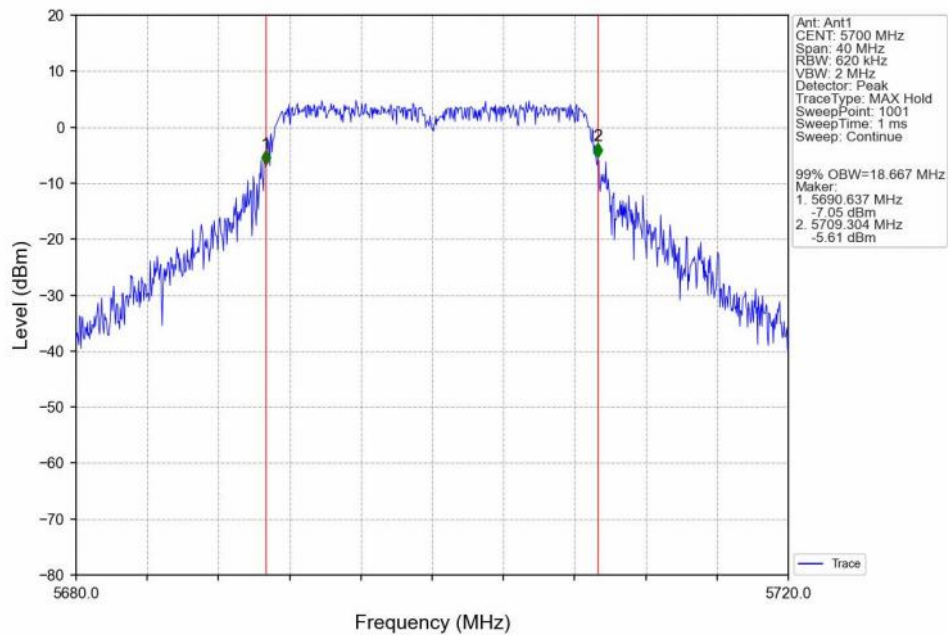
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



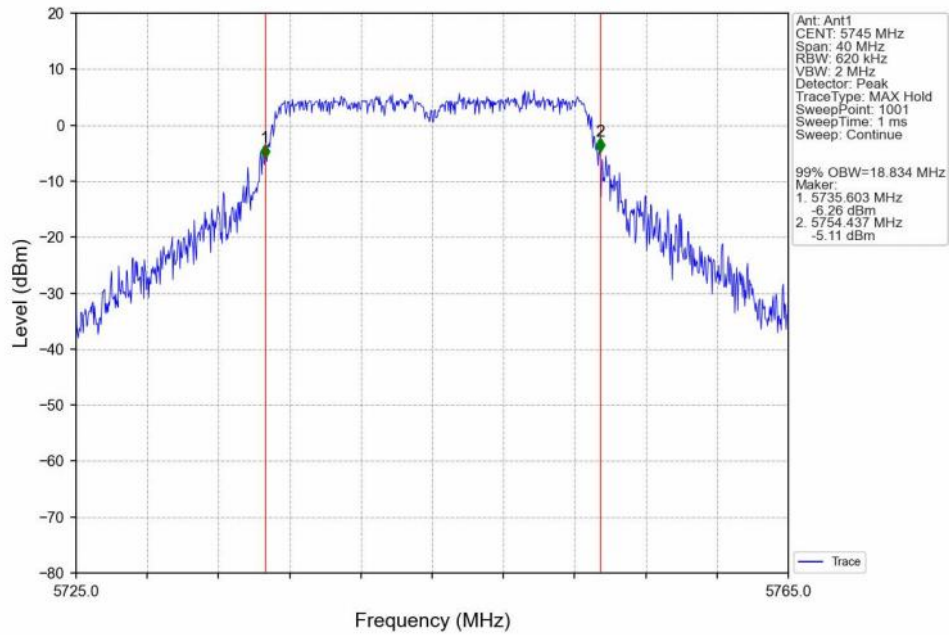
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



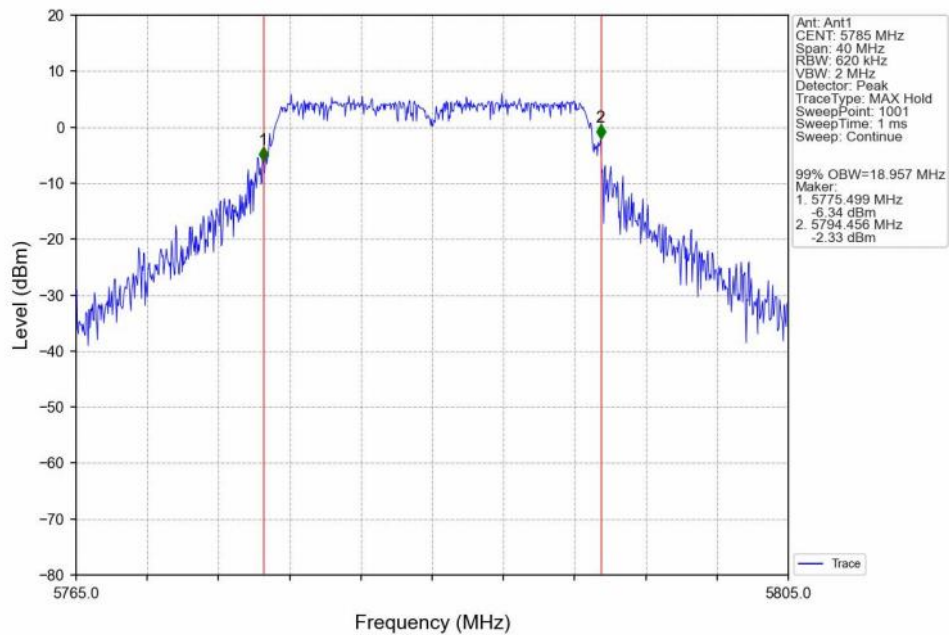
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



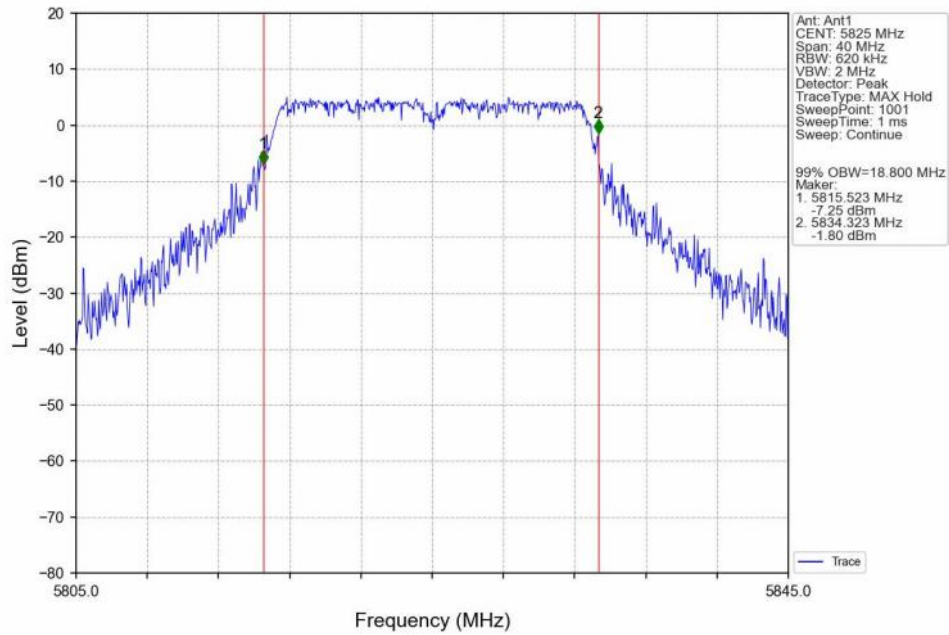
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



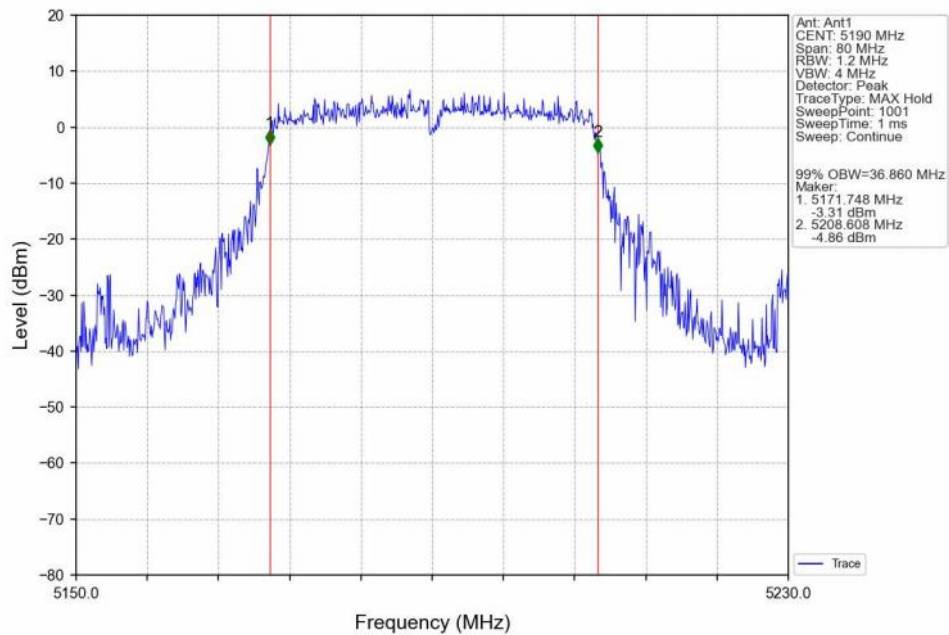
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



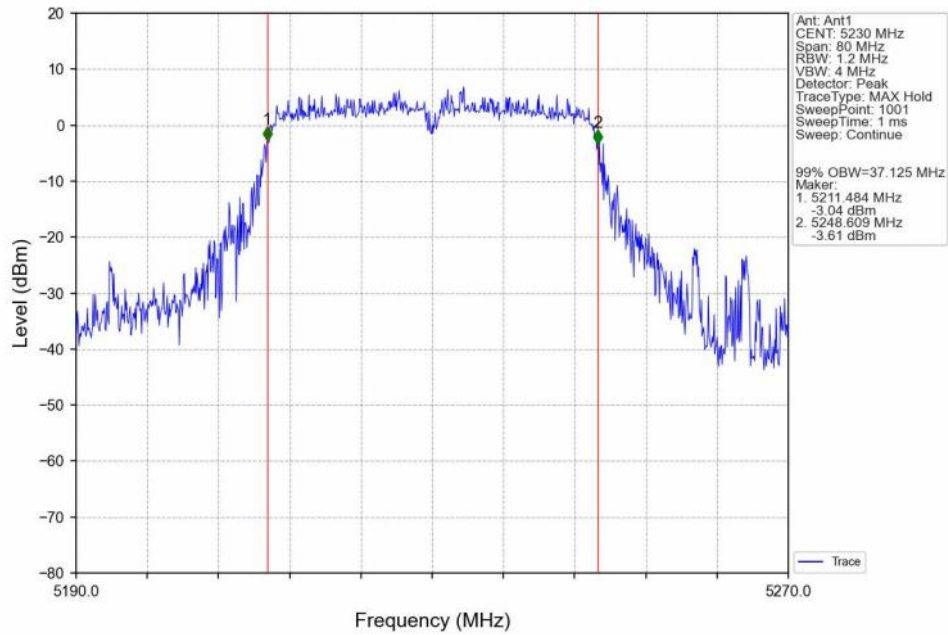
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



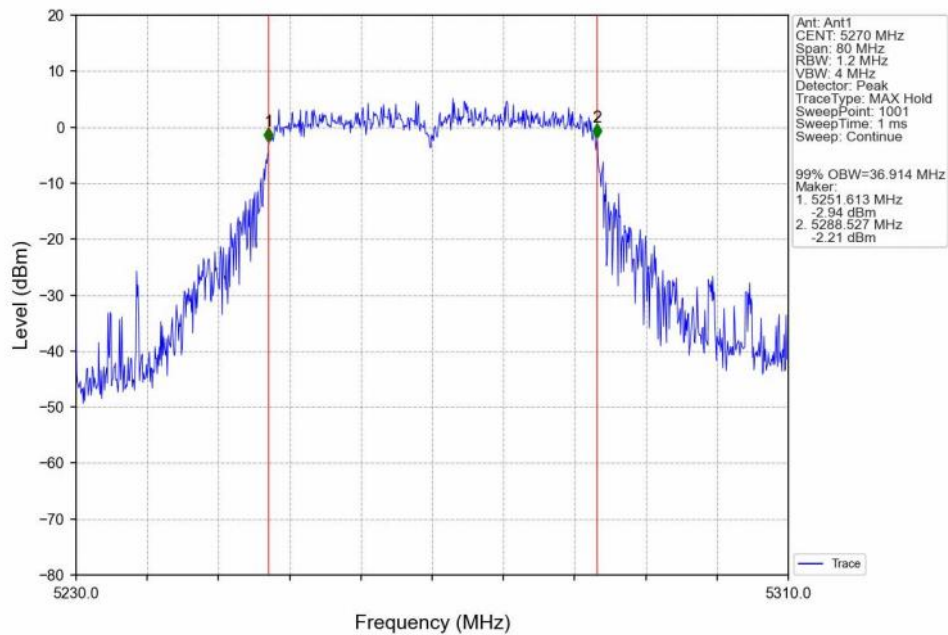
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



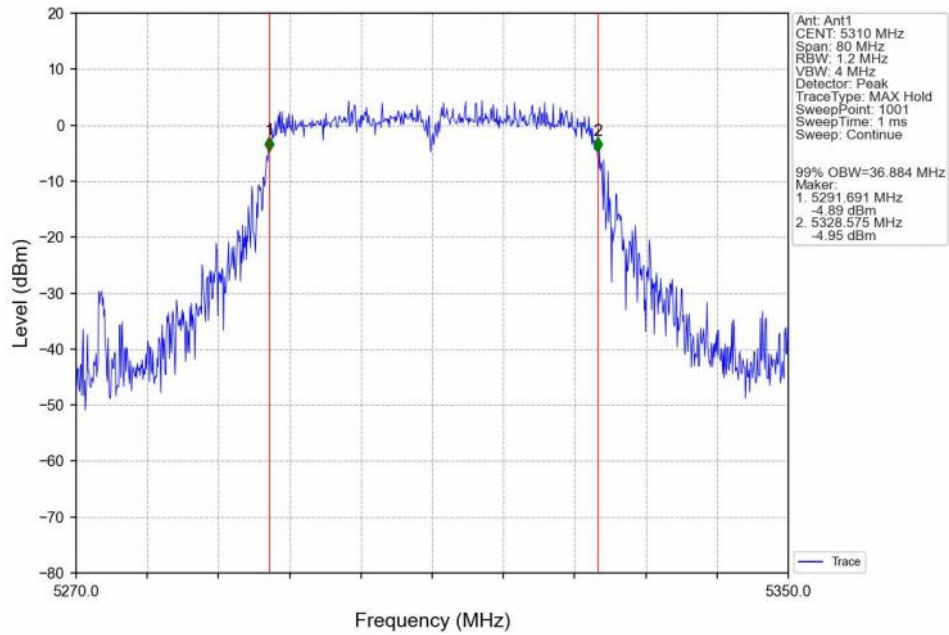
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



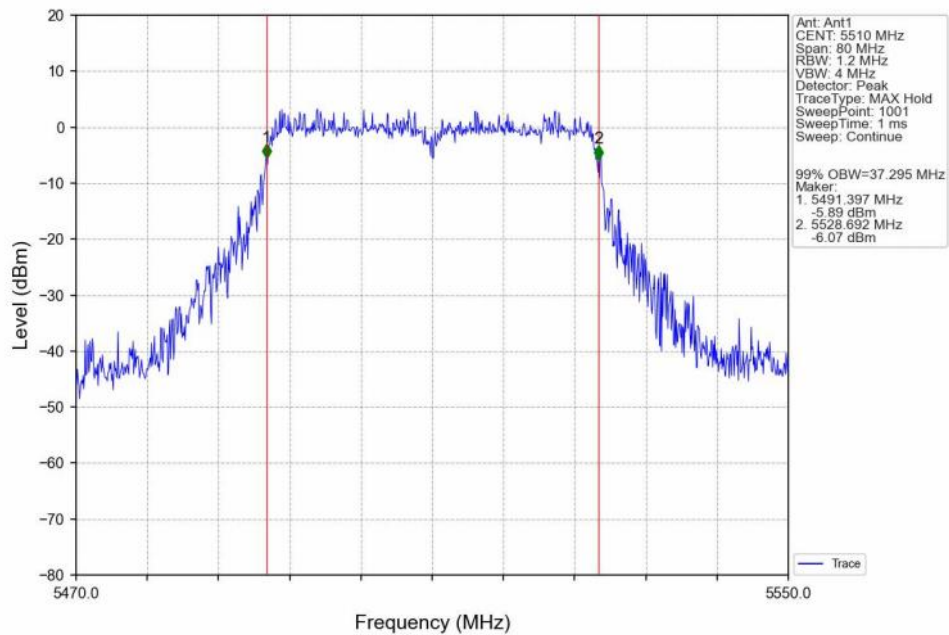
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



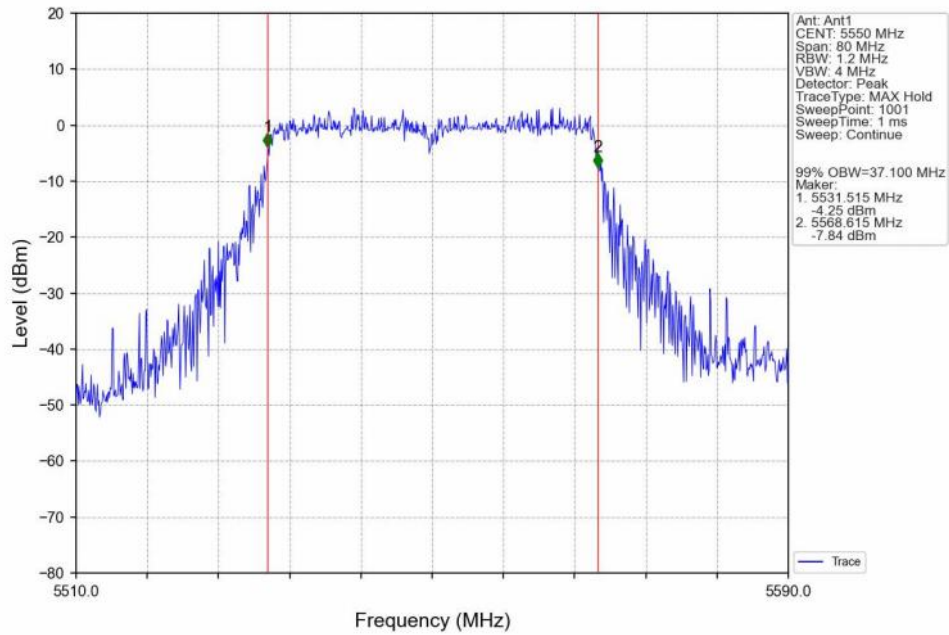
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



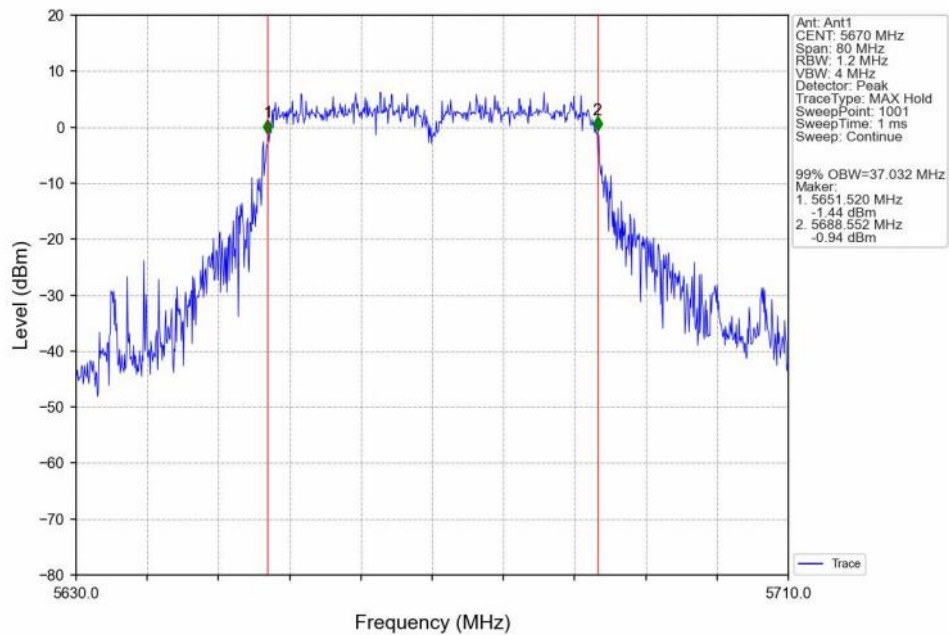
802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



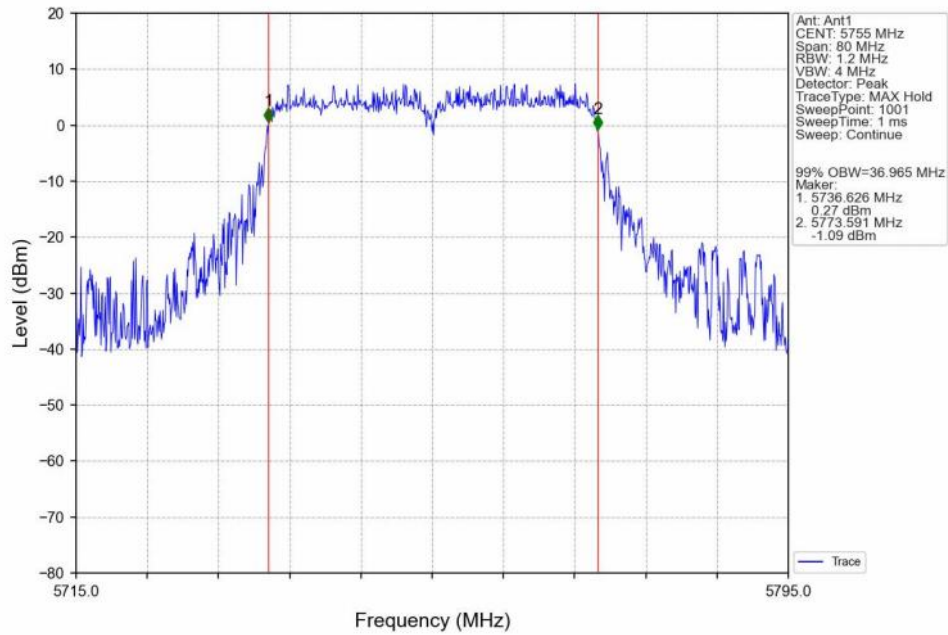
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



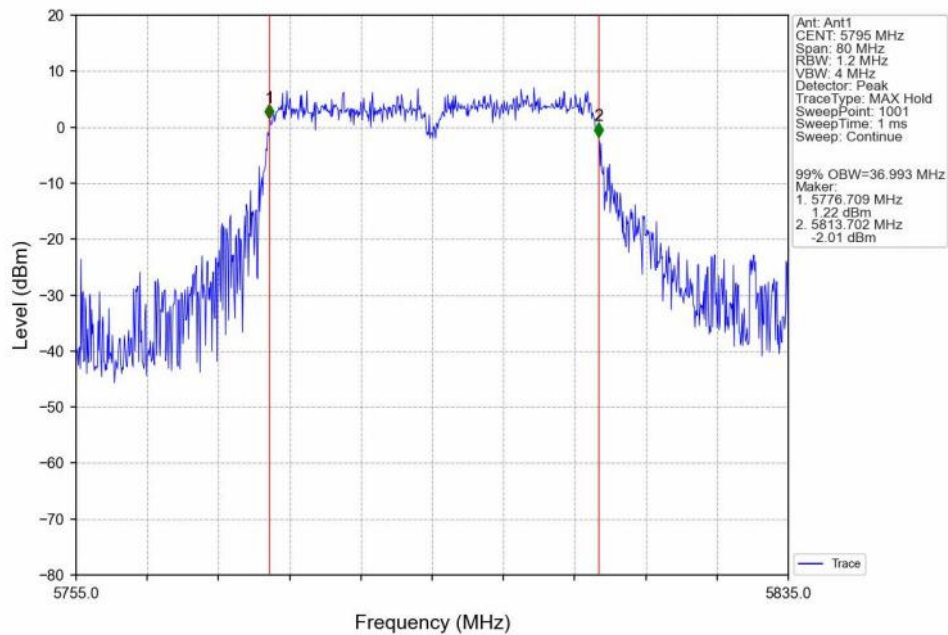
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



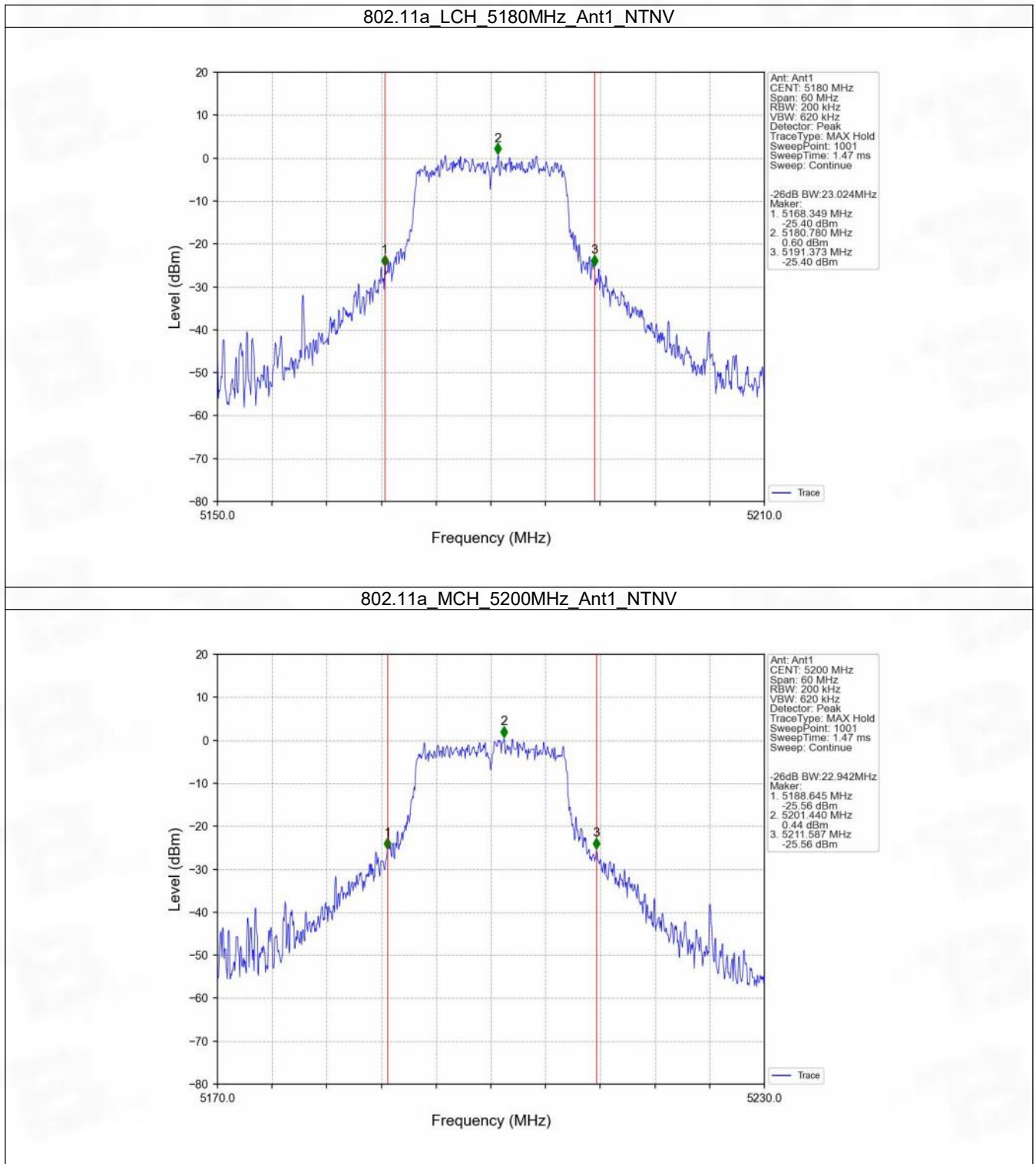
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



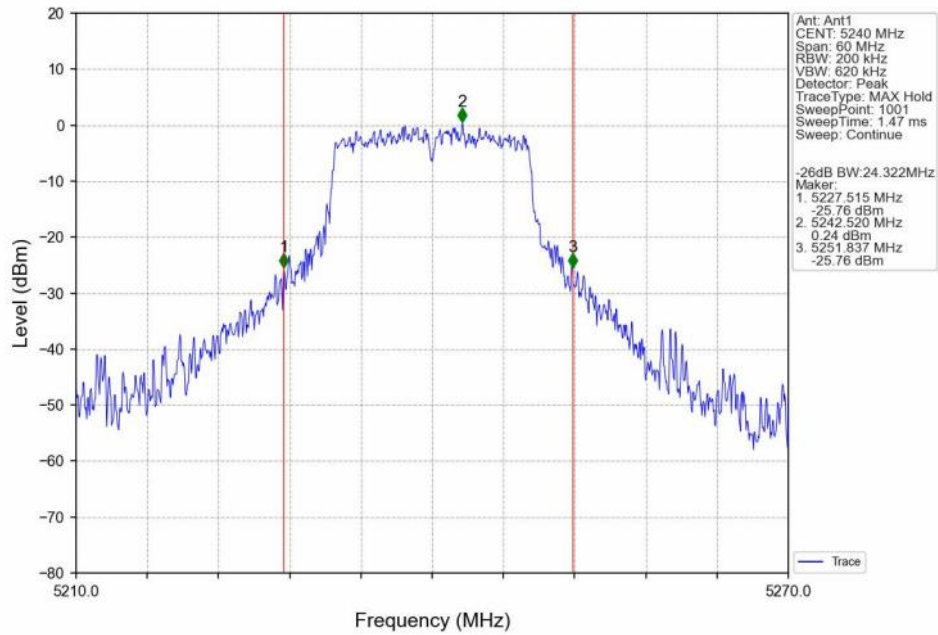
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



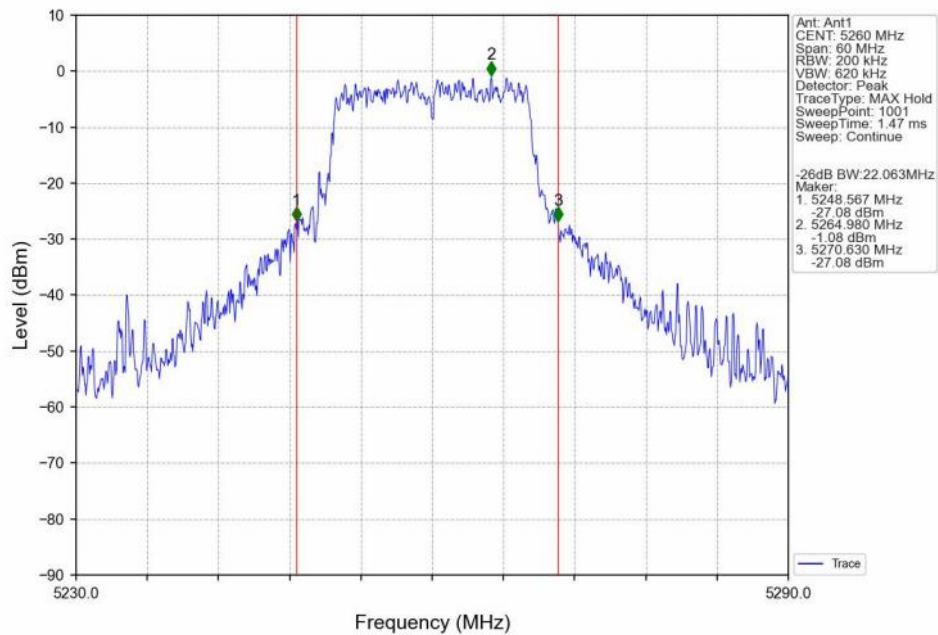
2.2.2 26dB BW



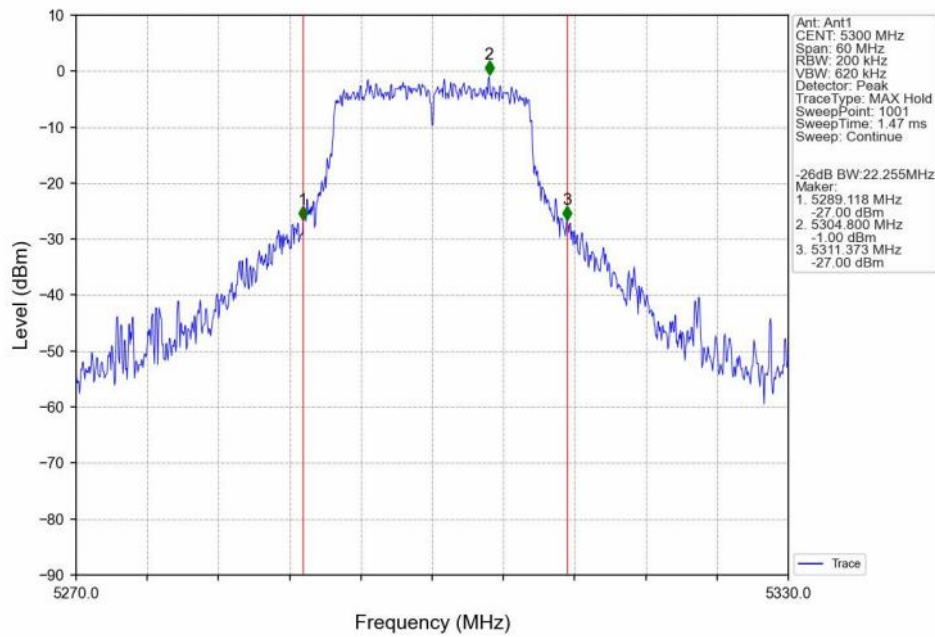
802.11a_HCH_5240MHz_Ant1_NTNV



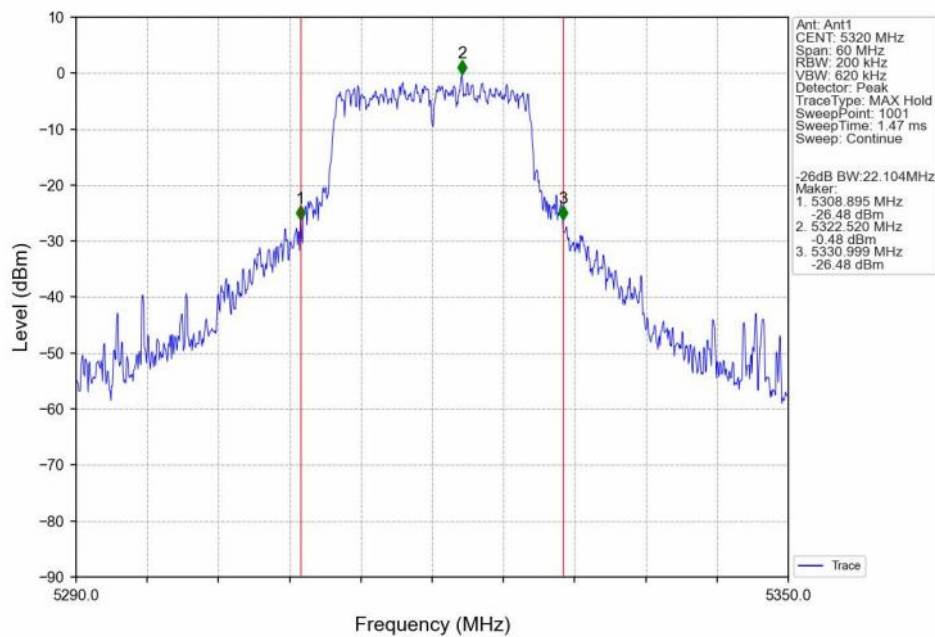
802.11a_LCH_5260MHz_Ant1_NTNV



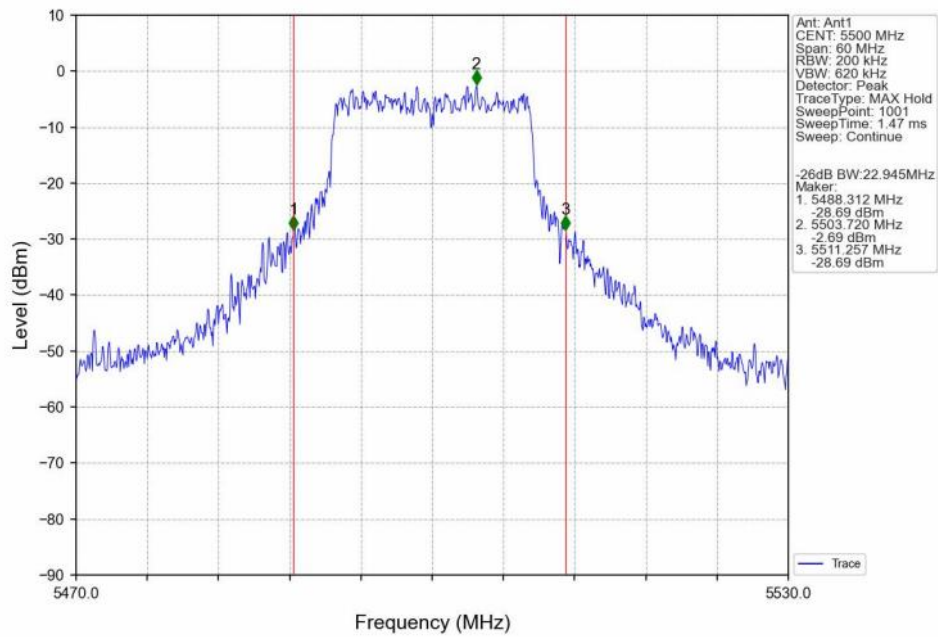
802.11a_MCH_5300MHz_Ant1_NTNV



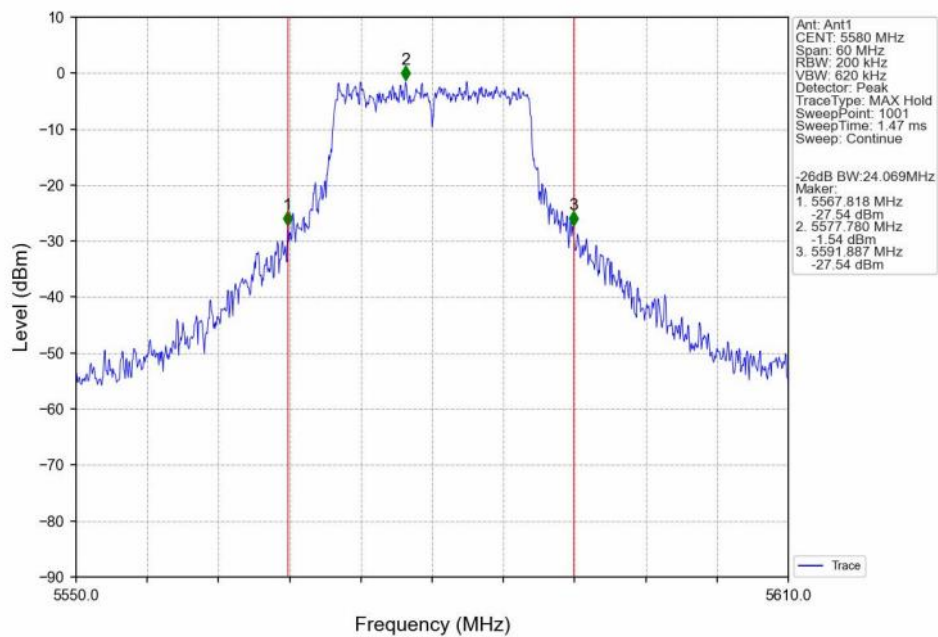
802.11a_HCH_5320MHz_Ant1_NTNV



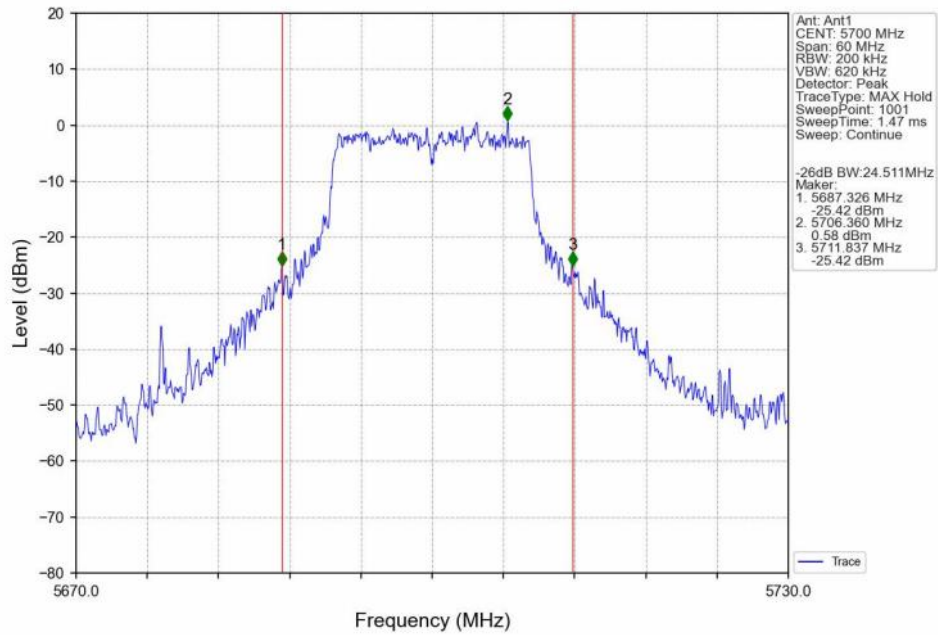
802.11a_LCH_5500MHz_Ant1_NTNV



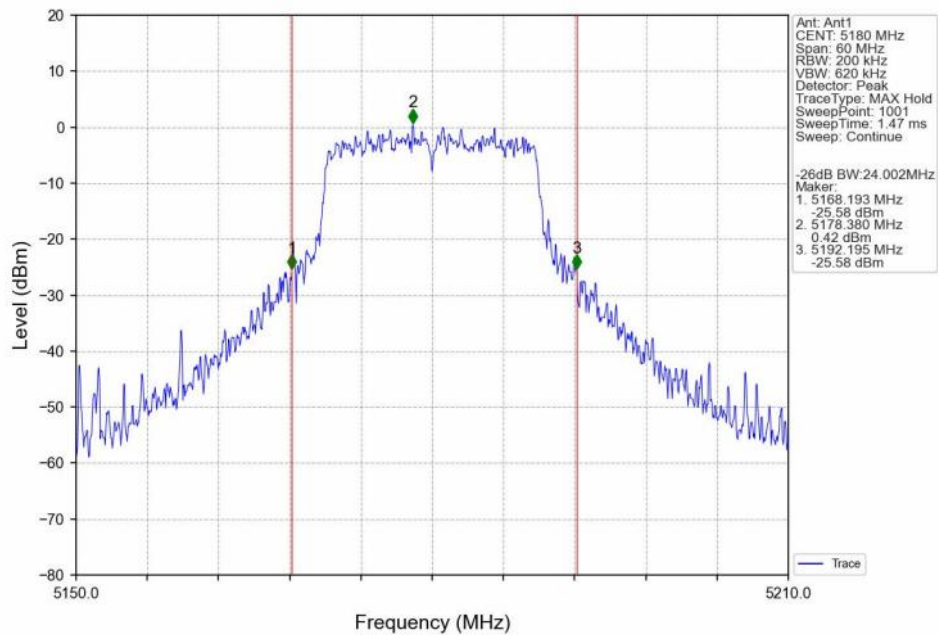
802.11a_MCH_5580MHz_Ant1_NTNV



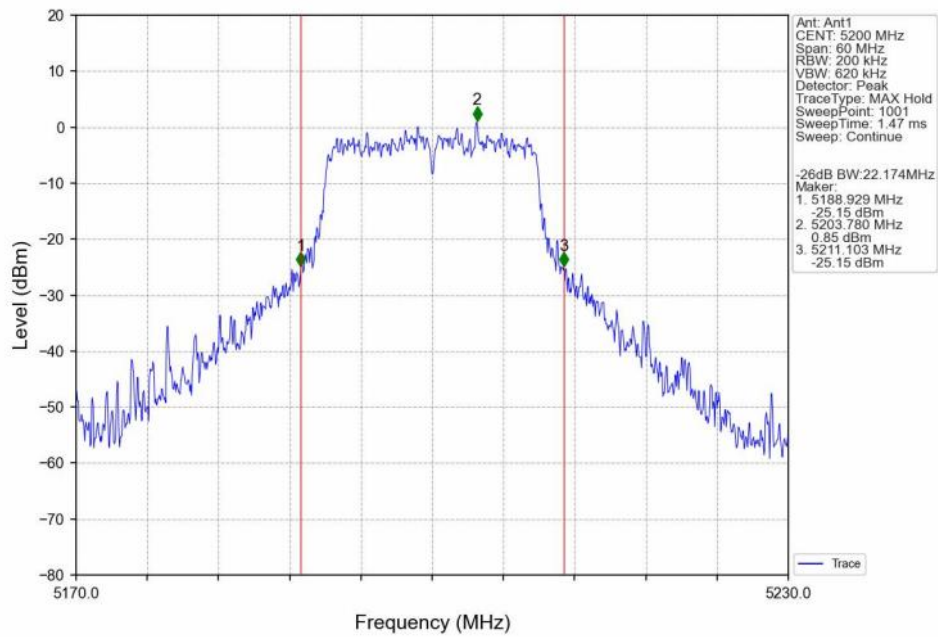
802.11a_HCH_5700MHz_Ant1_NTNV



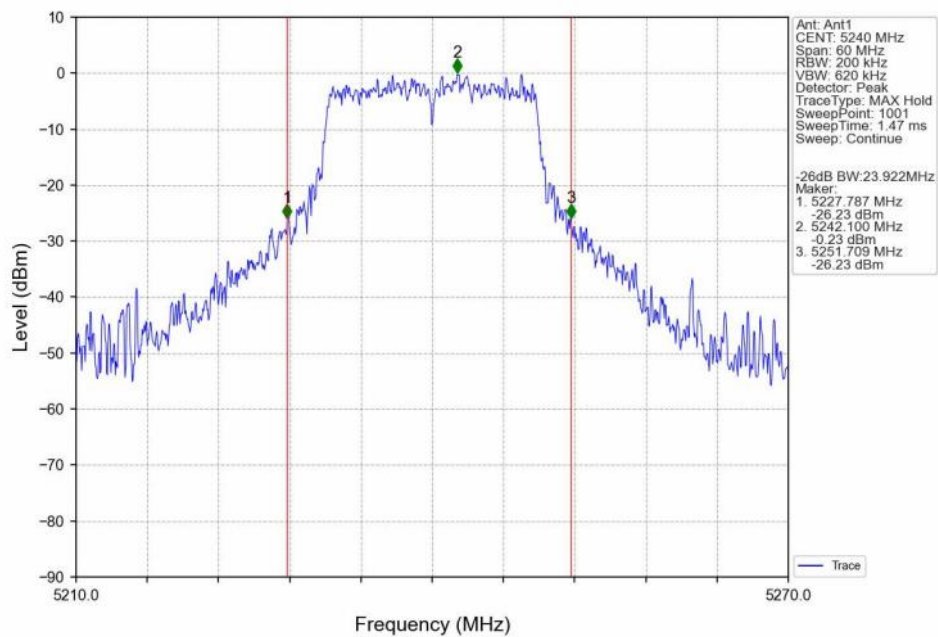
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



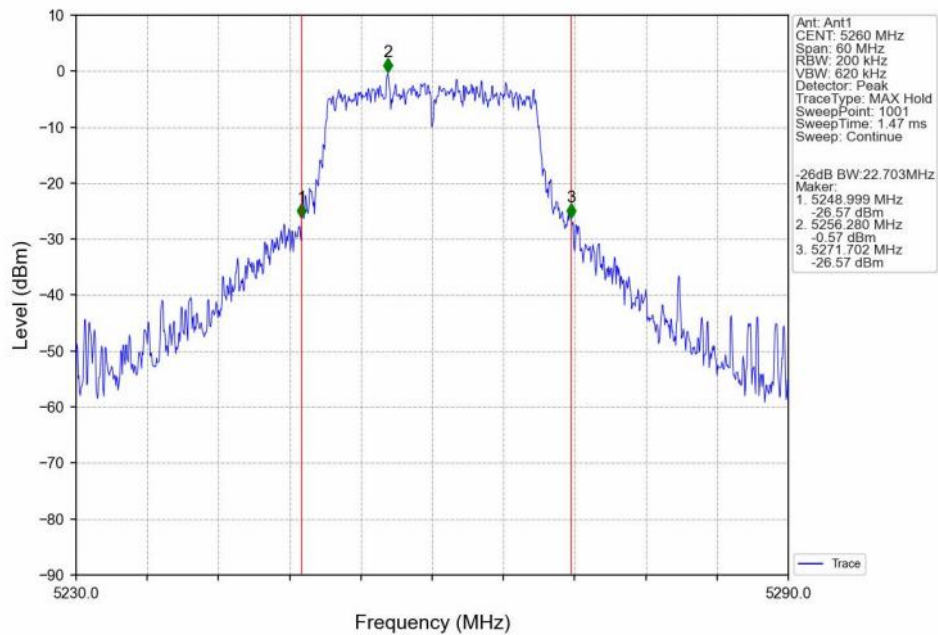
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



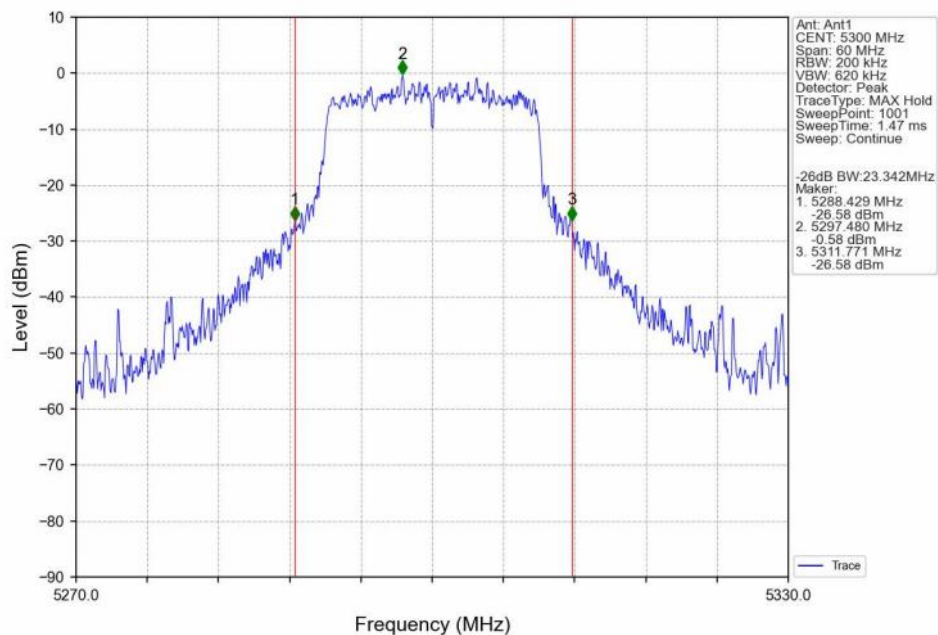
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



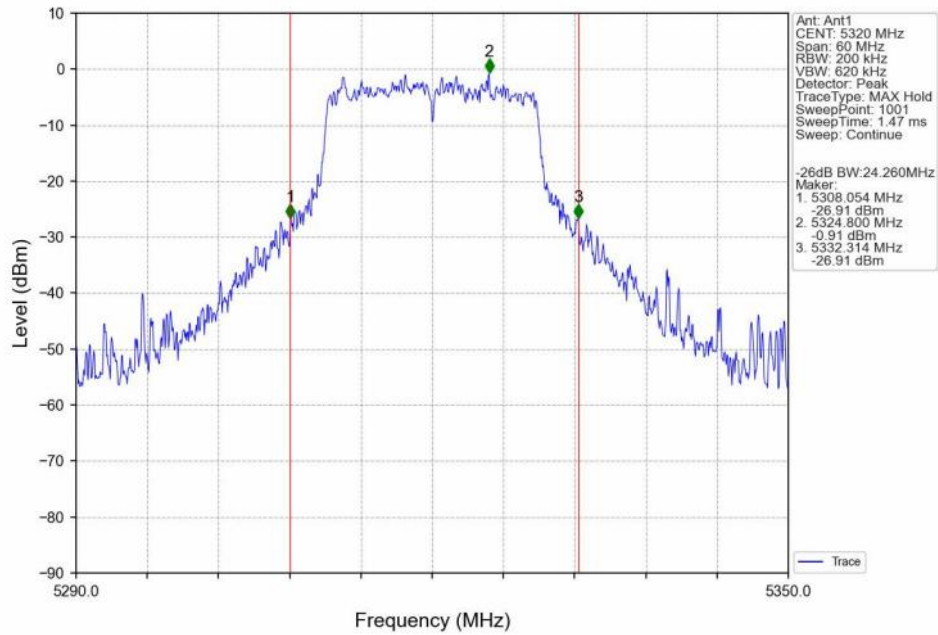
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



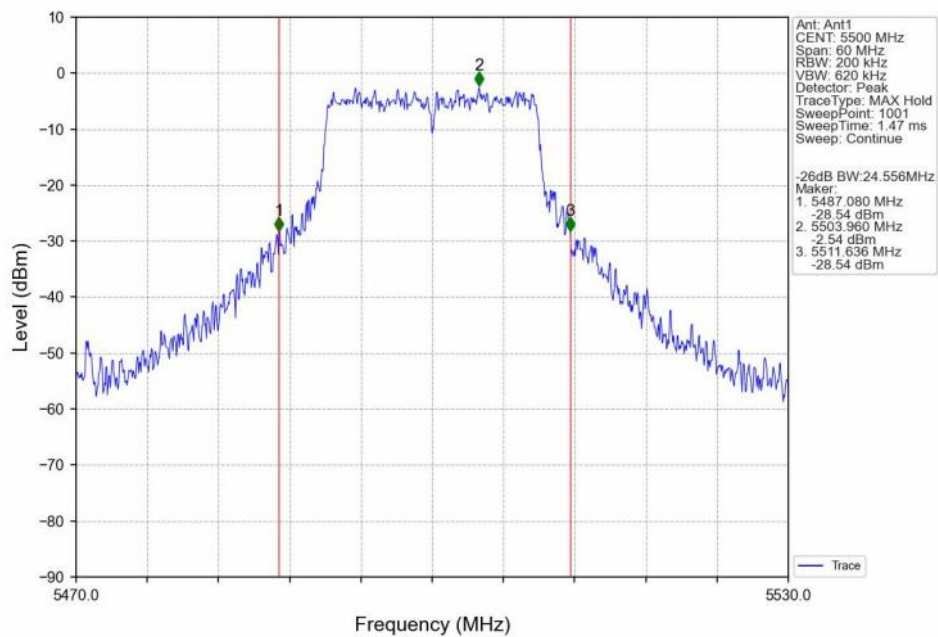
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



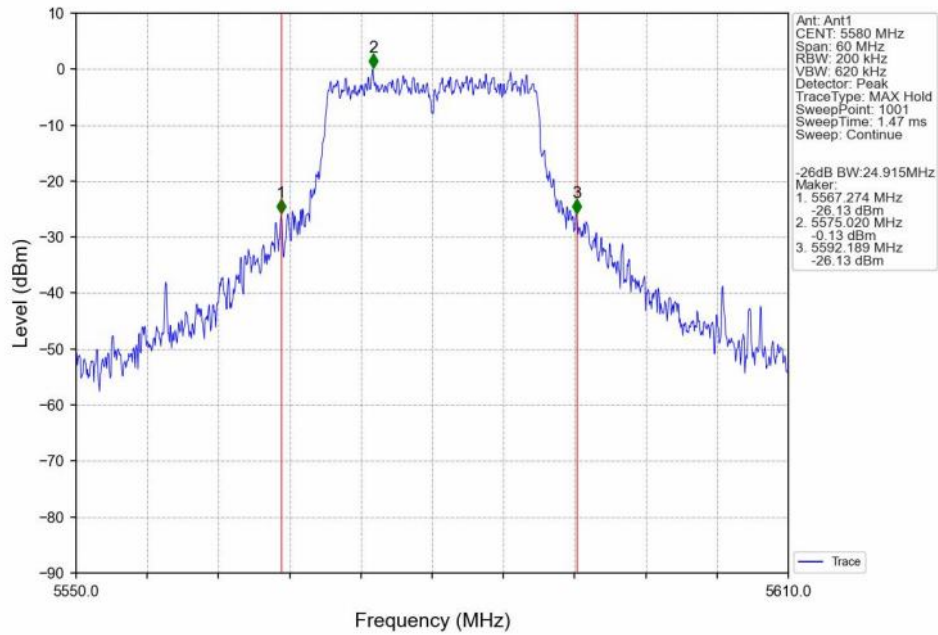
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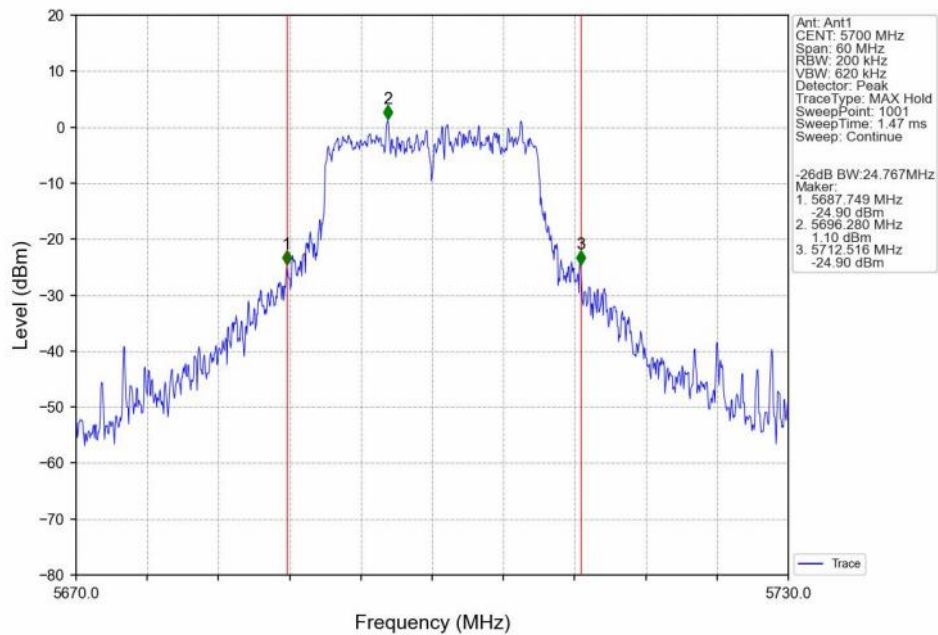
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



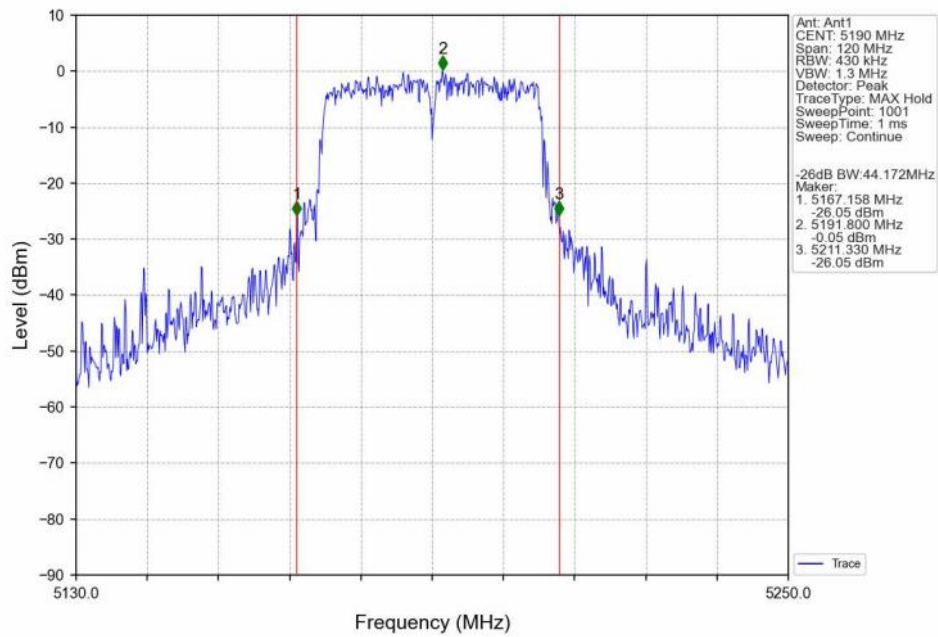
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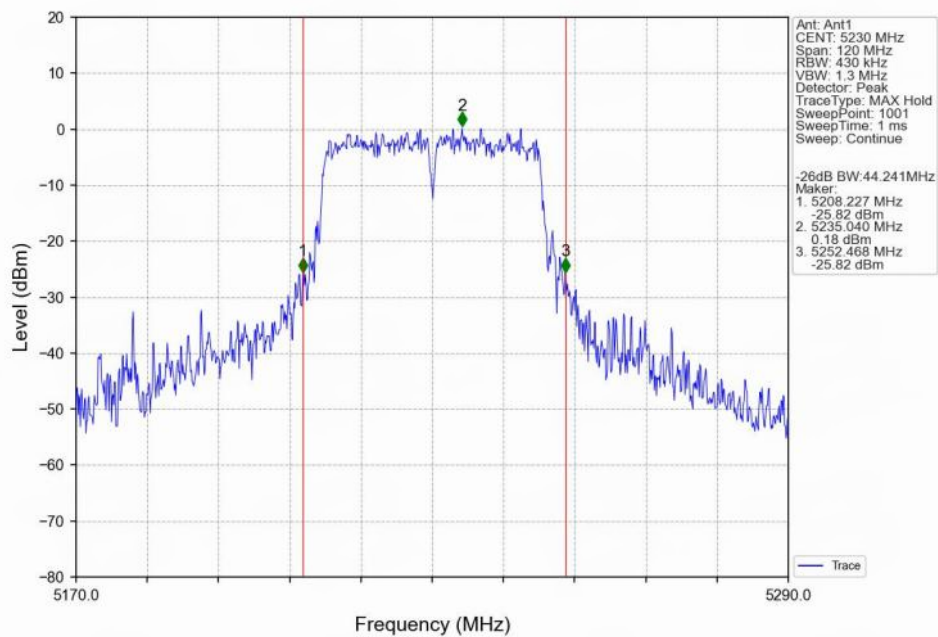
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



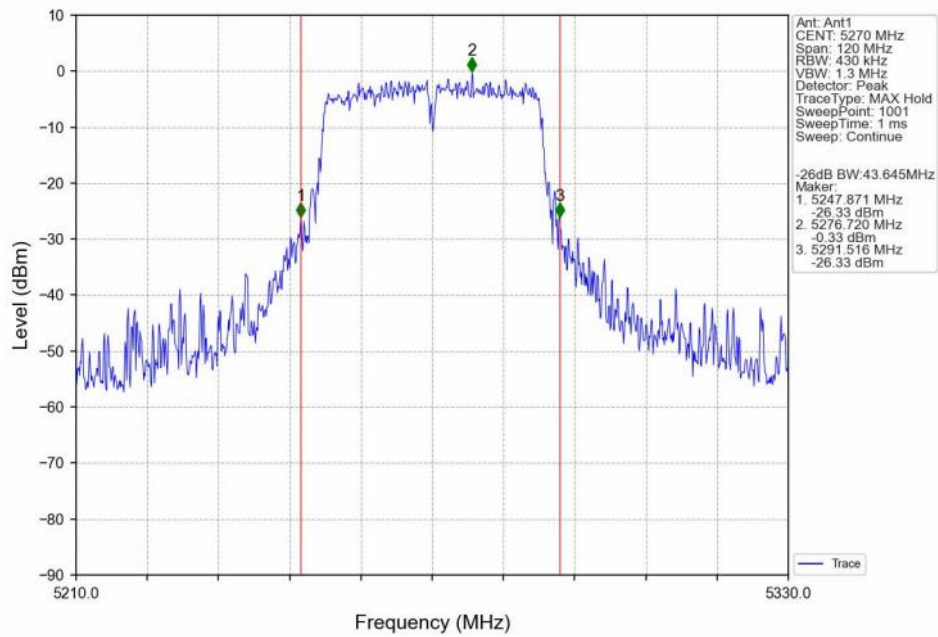
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV

