

Appendix - 5G WIFI

1. Duty Cycle

1.1 Test Result

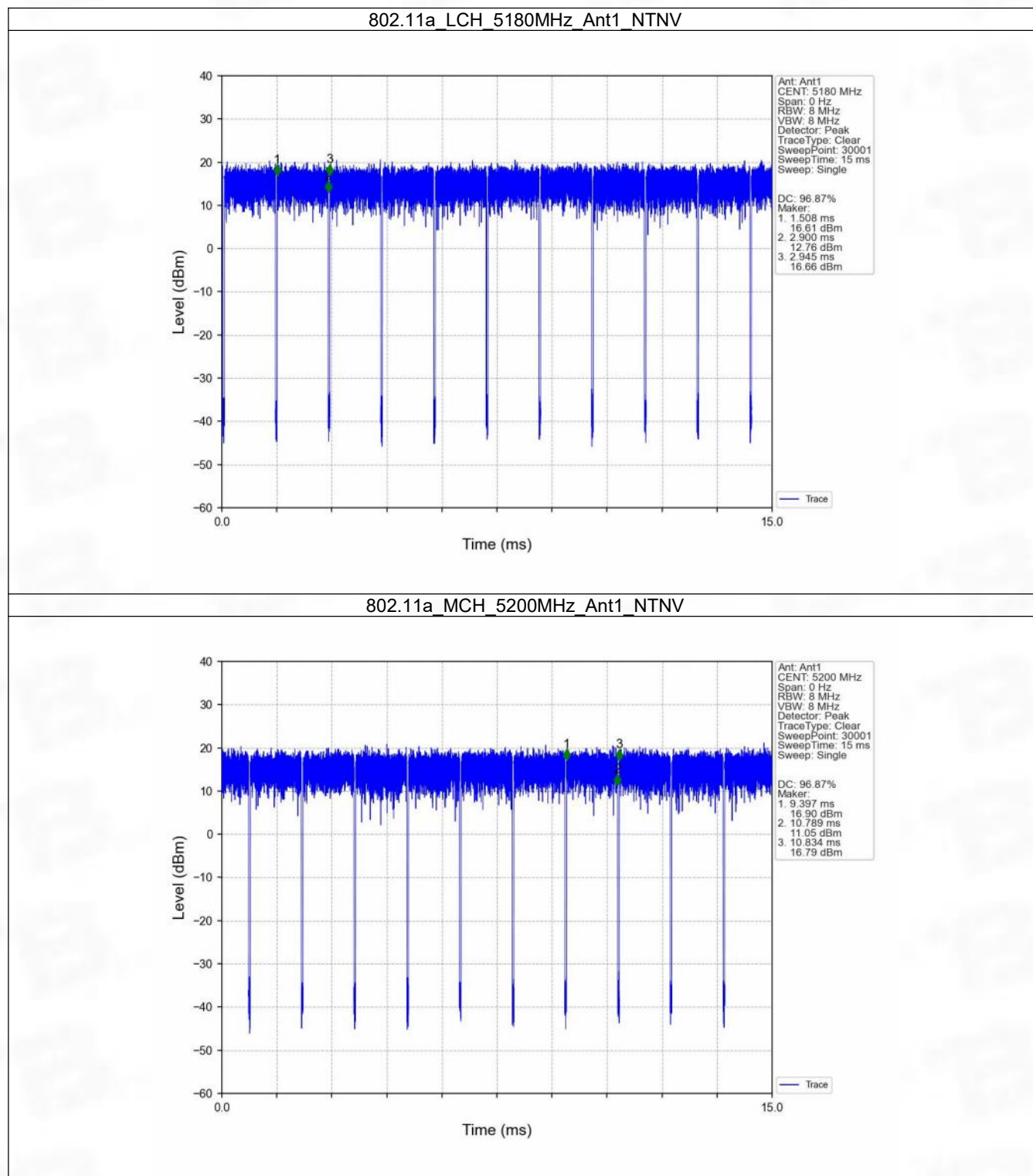
1.1.1 Ant1

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	1.392	1.437	96.87	0.14	0.03
		5200	1.392	1.437	96.87	0.14	0.03
		5240	1.393	1.437	96.94	0.14	0.10
		5260	1.393	1.437	96.94	0.14	0.06
		5300	1.392	1.436	96.94	0.14	0.03
		5320	1.393	1.437	96.94	0.14	0.07
		5500	1.392	1.437	96.87	0.14	0.03
		5580	1.393	1.437	96.94	0.14	0.10
		5700	1.393	1.437	96.94	0.14	0.03
		5745	1.392	1.436	96.94	0.14	0.03
		5785	1.393	1.437	96.94	0.14	0.07
		5825	1.392	1.436	96.94	0.14	0.03
802.11n (HT20)	SISO	5180	1.302	1.345	96.80	0.14	0.04
		5200	1.301	1.345	96.73	0.14	0.07
		5240	1.300	1.344	96.73	0.14	0.14
		5260	1.300	1.344	96.73	0.14	0.04
		5300	1.301	1.345	96.73	0.14	0.07
		5320	1.301	1.345	96.73	0.14	0.07
		5500	1.301	1.345	96.73	0.14	0.10
		5580	1.302	1.346	96.73	0.14	0.10
		5700	1.301	1.345	96.73	0.14	0.07
		5745	1.301	1.345	96.73	0.14	0.03
		5785	1.300	1.345	96.65	0.15	0.10
		5825	1.300	1.345	96.65	0.15	0.03
802.11n (HT40)	SISO	5190	0.648	0.692	93.64	0.29	0.04
		5230	0.648	0.692	93.64	0.29	0.04
		5270	0.649	0.692	93.79	0.28	0.03
		5310	0.648	0.692	93.64	0.29	0.04
		5510	0.648	0.692	93.64	0.29	0.07
		5550	0.650	0.692	93.93	0.27	0.04
		5670	0.648	0.692	93.64	0.29	0.03
		5755	0.648	0.692	93.64	0.29	0.03
		5795	0.649	0.692	93.79	0.28	0.03
		5825	0.649	0.692	93.79	0.28	0.03
802.11ac (VHT20)	SISO	5180	1.313	1.357	96.76	0.14	0.10
		5200	1.313	1.357	96.76	0.14	0.07
		5240	1.313	1.357	96.76	0.14	0.07
		5260	1.314	1.356	96.90	0.14	0.00
		5300	1.312	1.356	96.76	0.14	0.07
		5320	1.314	1.357	96.83	0.14	0.03
		5500	1.313	1.357	96.76	0.14	0.07
		5580	1.314	1.357	96.83	0.14	0.07
		5700	1.312	1.356	96.76	0.14	0.04
		5745	1.314	1.356	96.90	0.14	0.03
		5785	1.312	1.356	96.76	0.14	0.03
		5825	1.313	1.356	96.83	0.14	0.07
802.11ac (VHT40)	SISO	5190	0.653	0.697	93.69	0.28	0.13
		5230	0.652	0.696	93.68	0.28	0.06
		5270	0.653	0.697	93.69	0.28	0.06

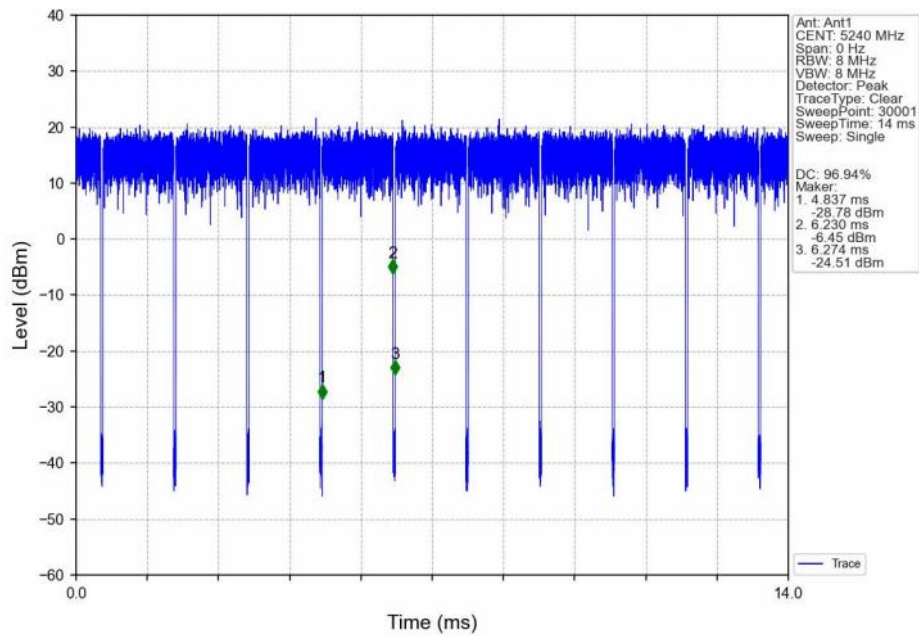
		5310	0.653	0.697	93.69	0.28	0.06
		5510	0.652	0.696	93.68	0.28	0.04
		5550	0.652	0.696	93.68	0.28	0.03
		5670	0.653	0.697	93.69	0.28	0.03
		5755	0.652	0.696	93.68	0.28	0.04
		5795	0.652	0.696	93.68	0.28	0.03
802.11ac (VHT80)	SISO	5210	0.324	0.368	88.04	0.55	0.07
		5290	0.324	0.368	88.04	0.55	0.04
		5530	0.324	0.368	88.04	0.55	0.07
		5610	0.324	0.368	88.04	0.55	0.07
		5775	0.324	0.368	88.04	0.55	0.07

1.2 Test Graph

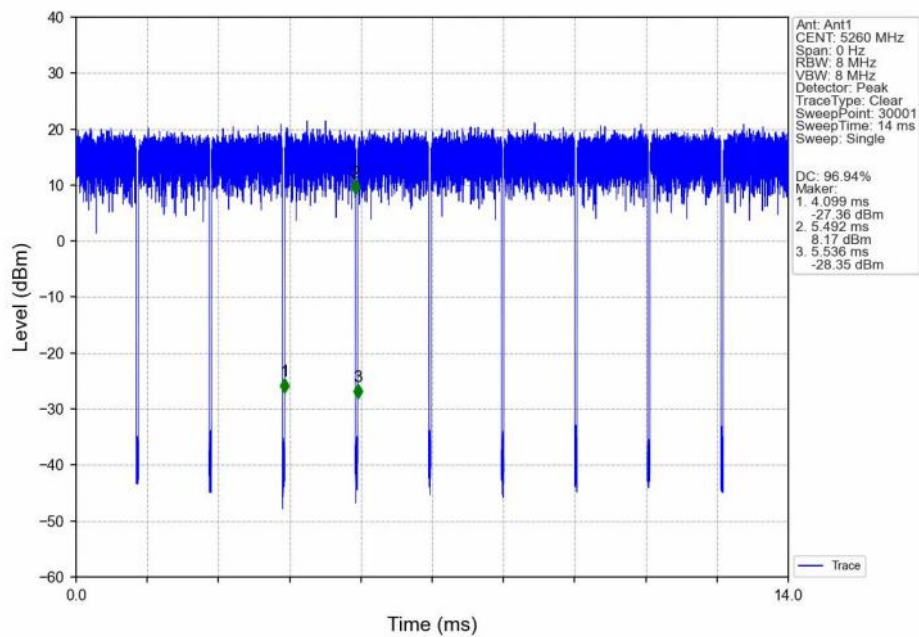
1.2.1 Ant1



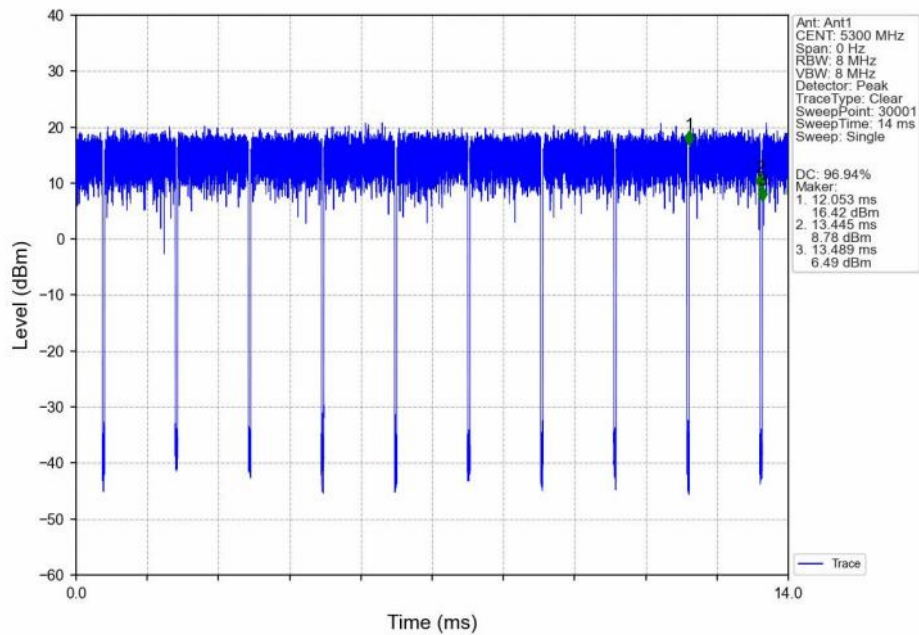
802.11a_HCH_5240MHz_Ant1_NTNV



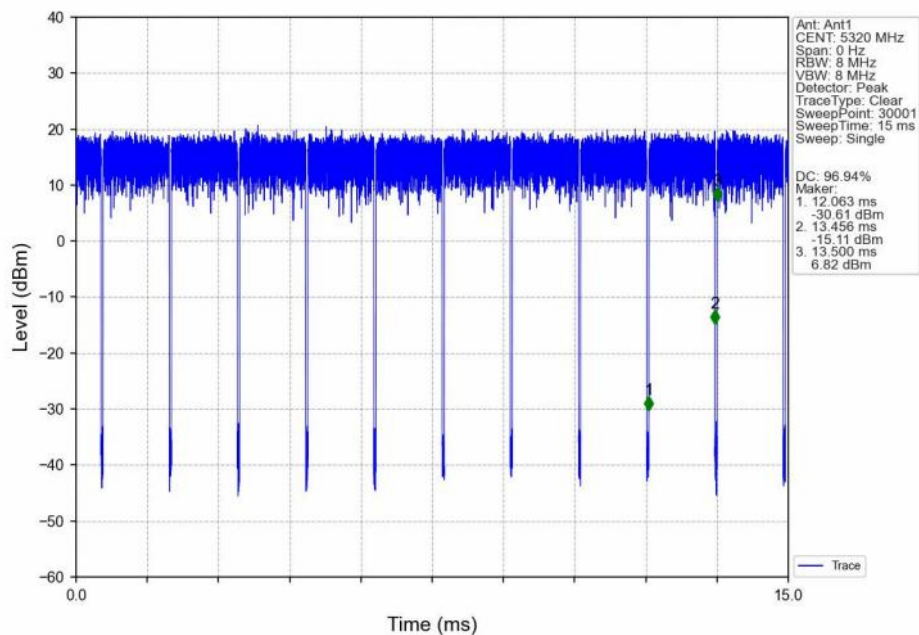
802.11a_LCH_5260MHz_Ant1_NTNV



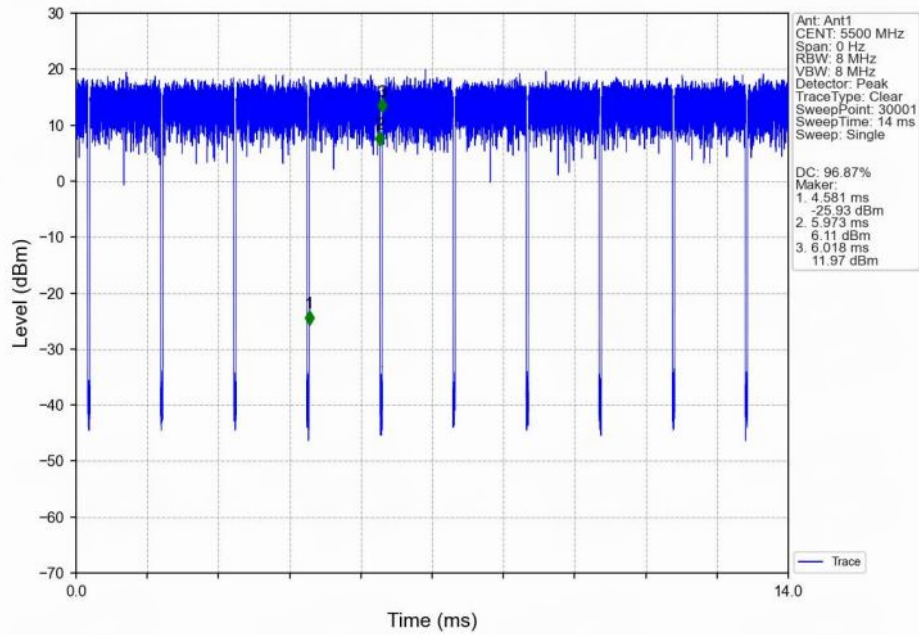
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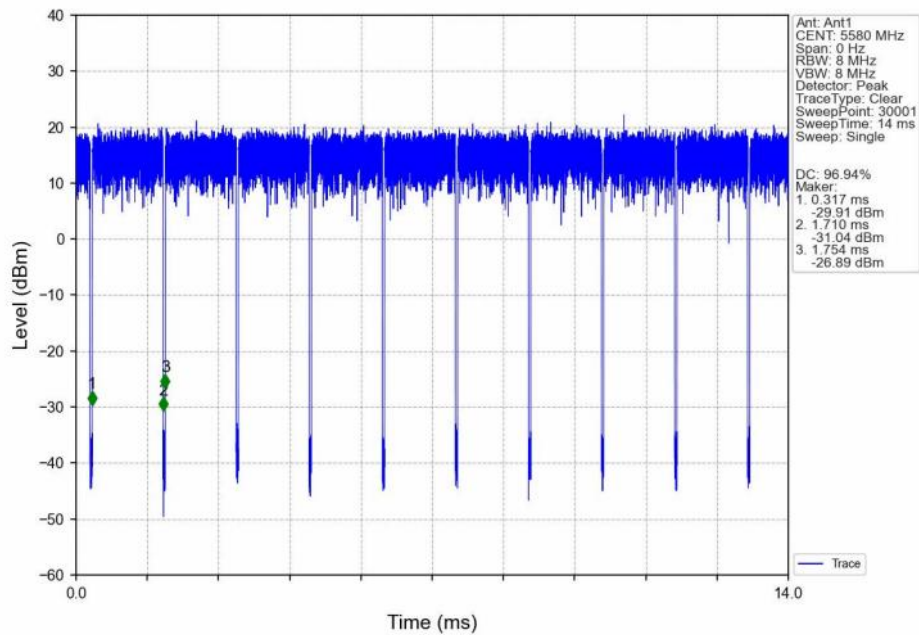
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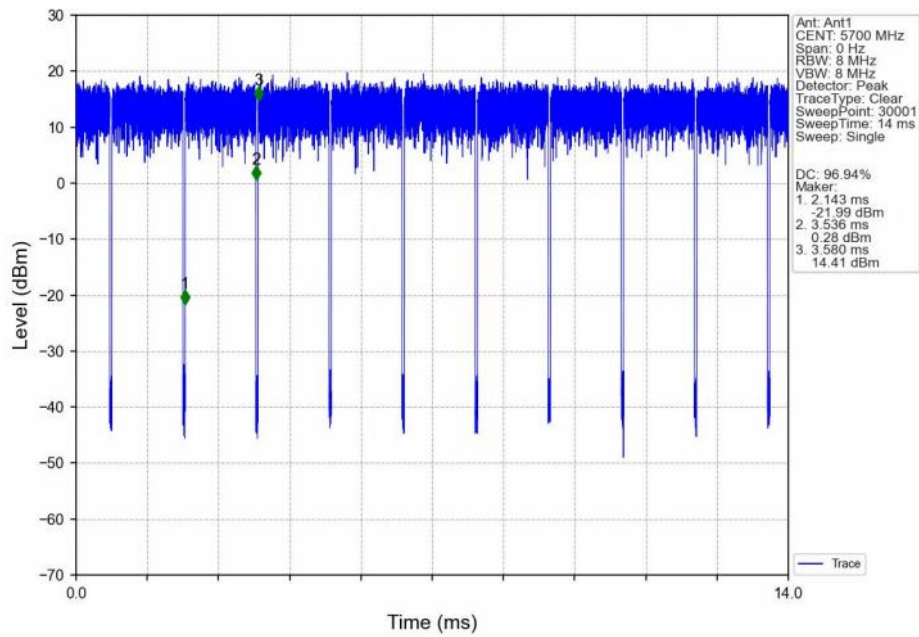
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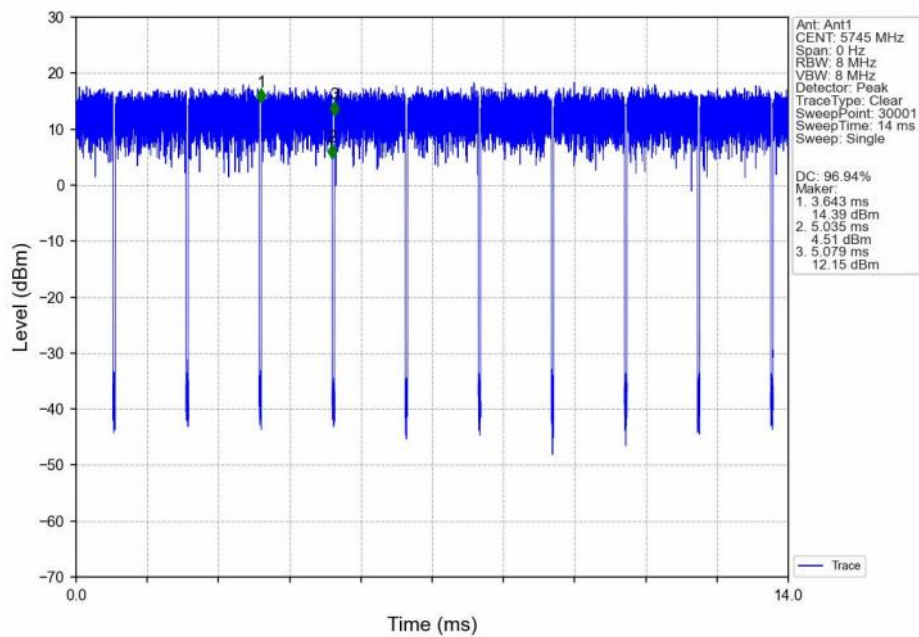
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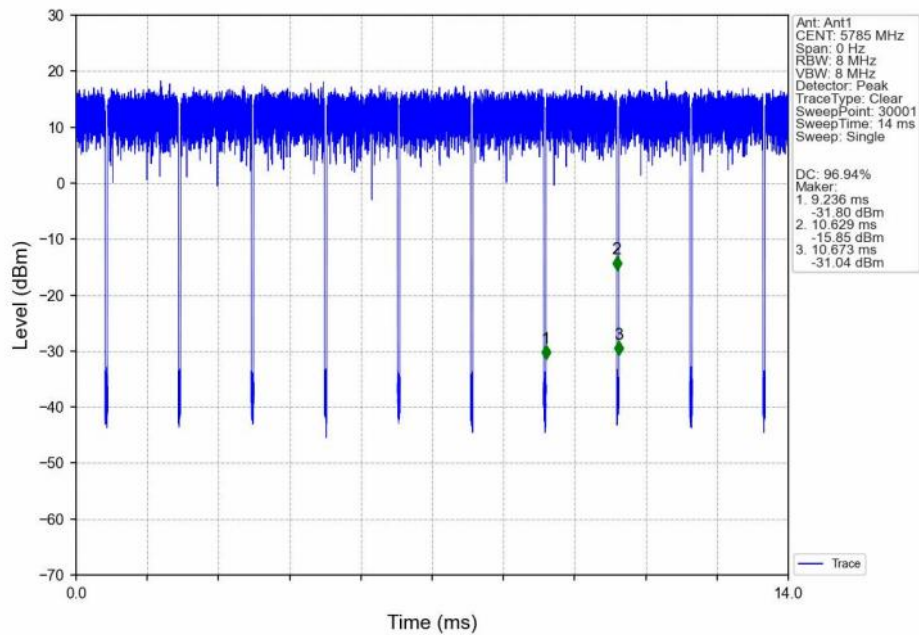
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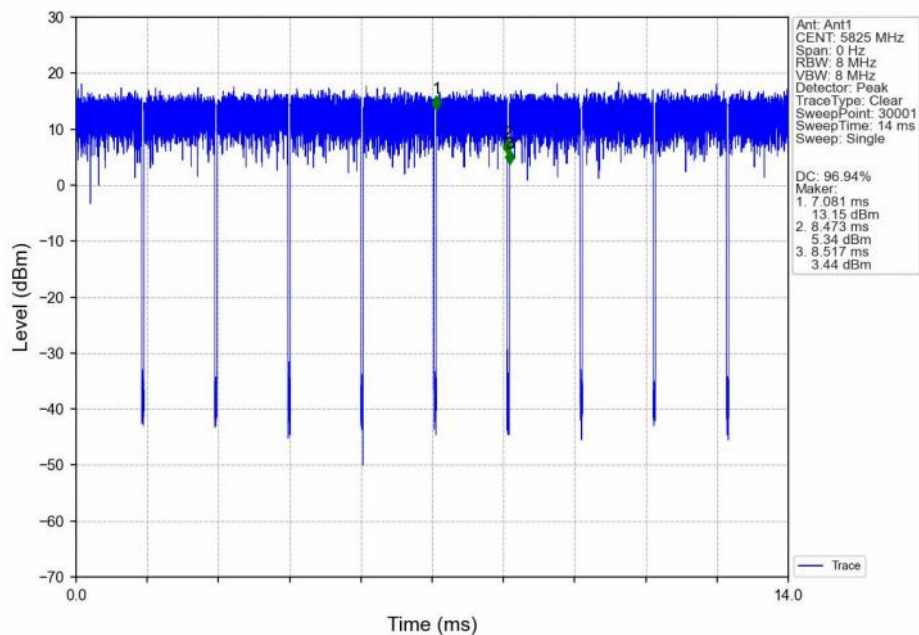
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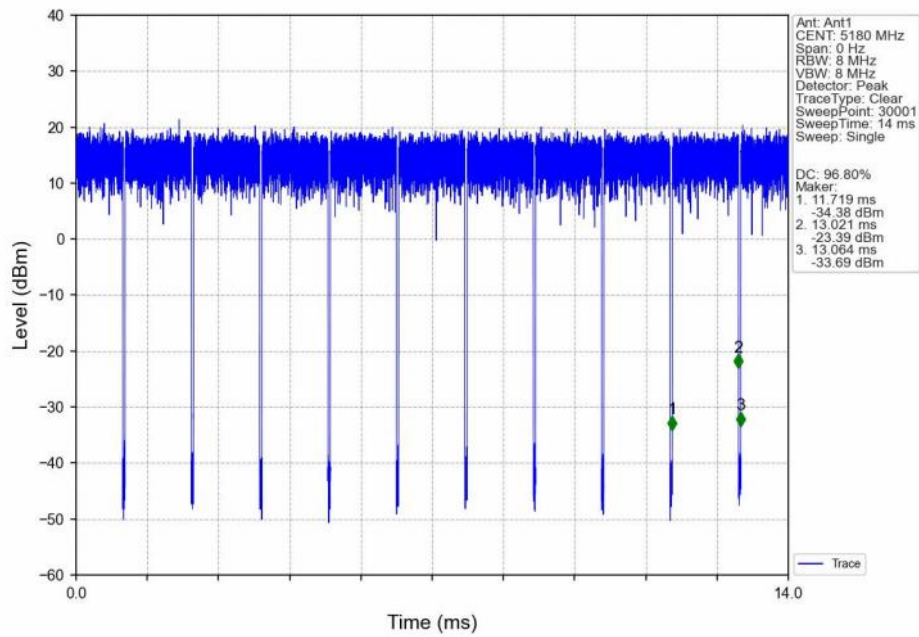
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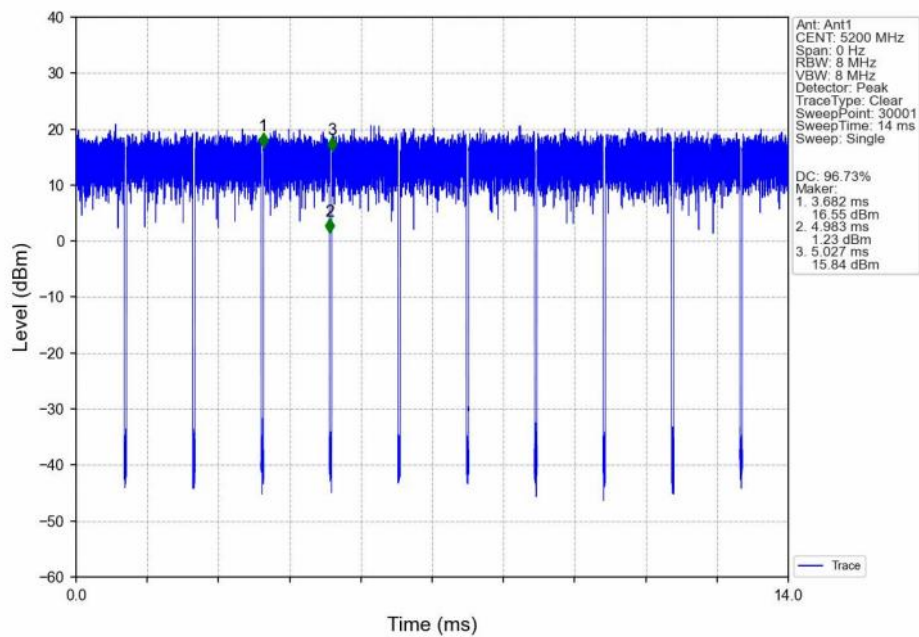
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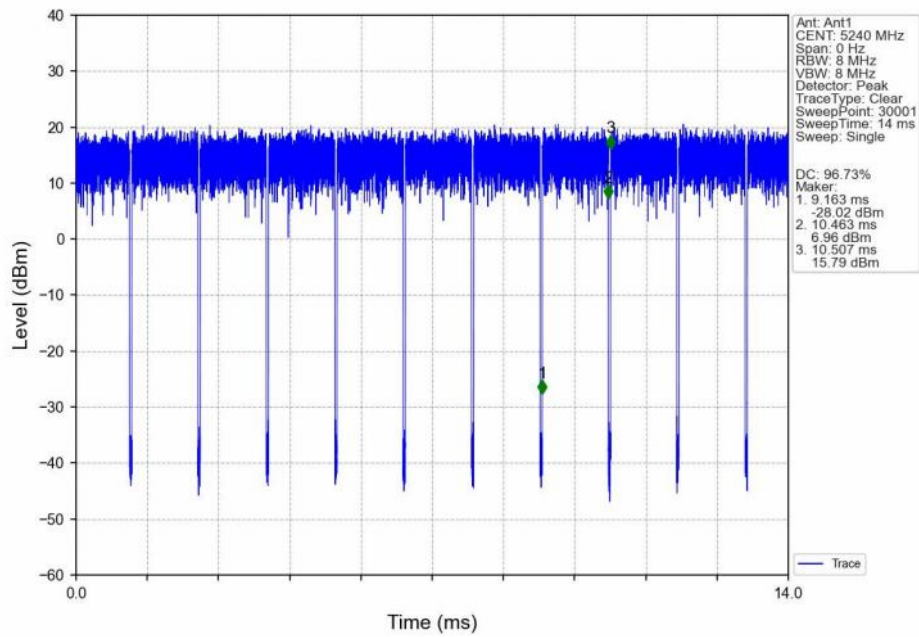
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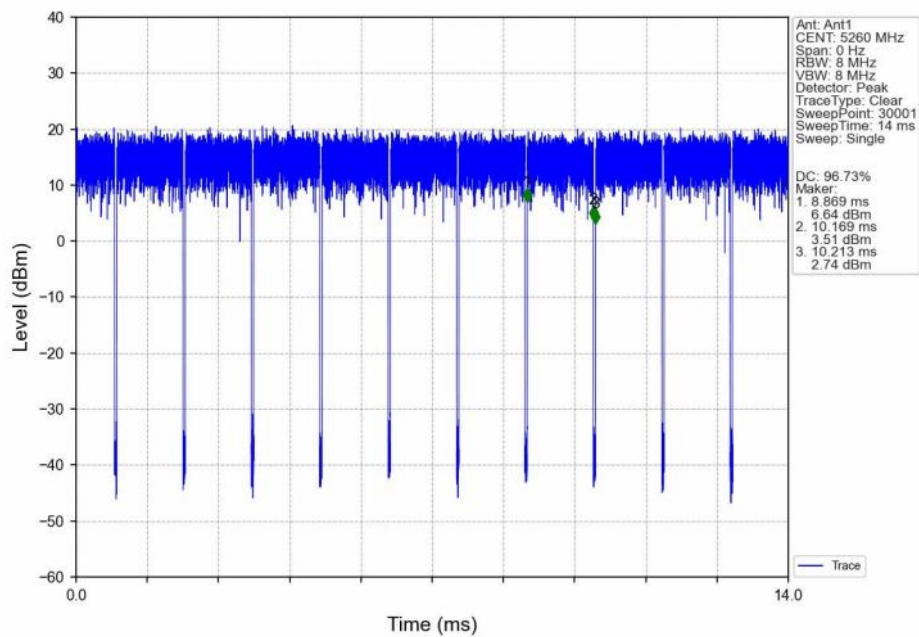
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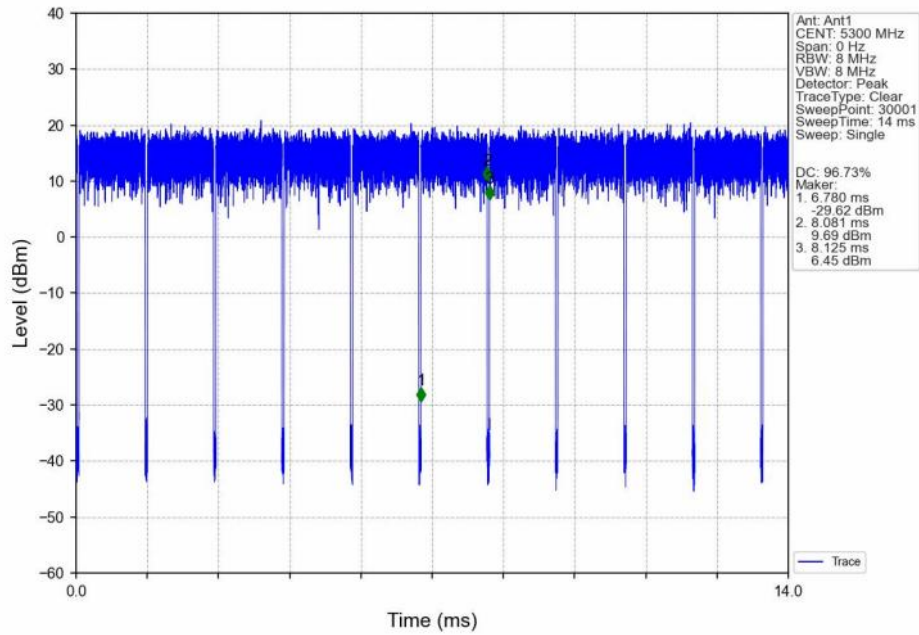
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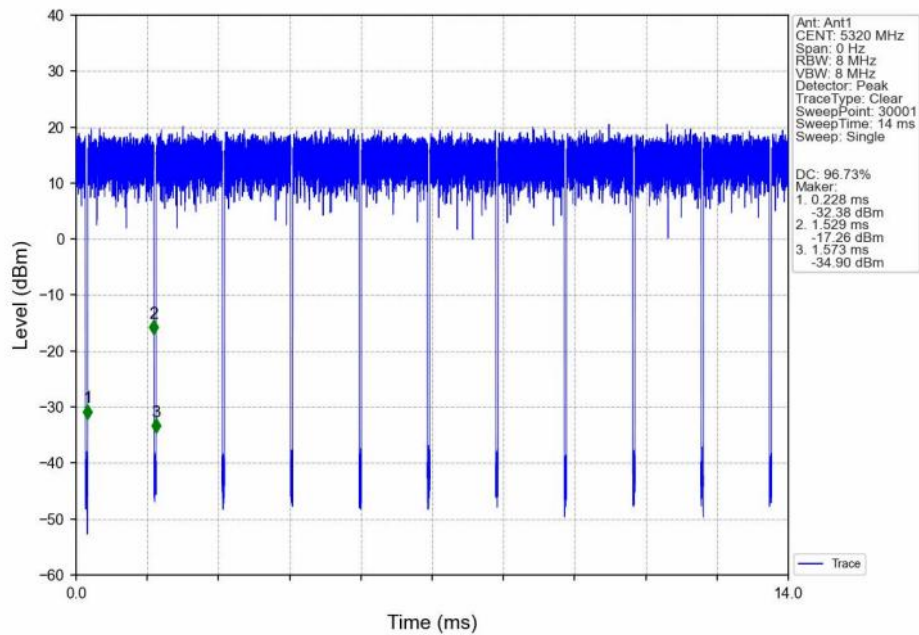
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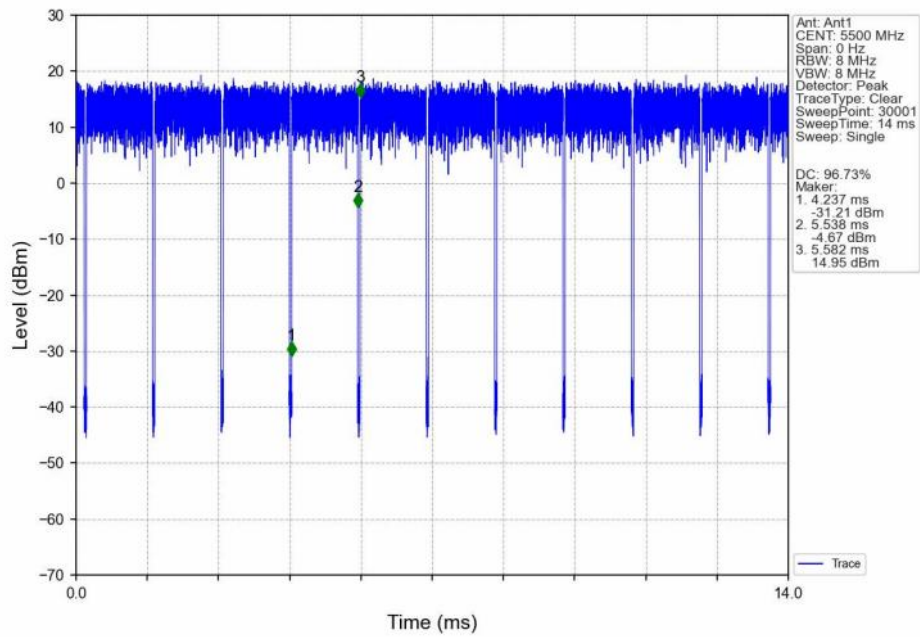
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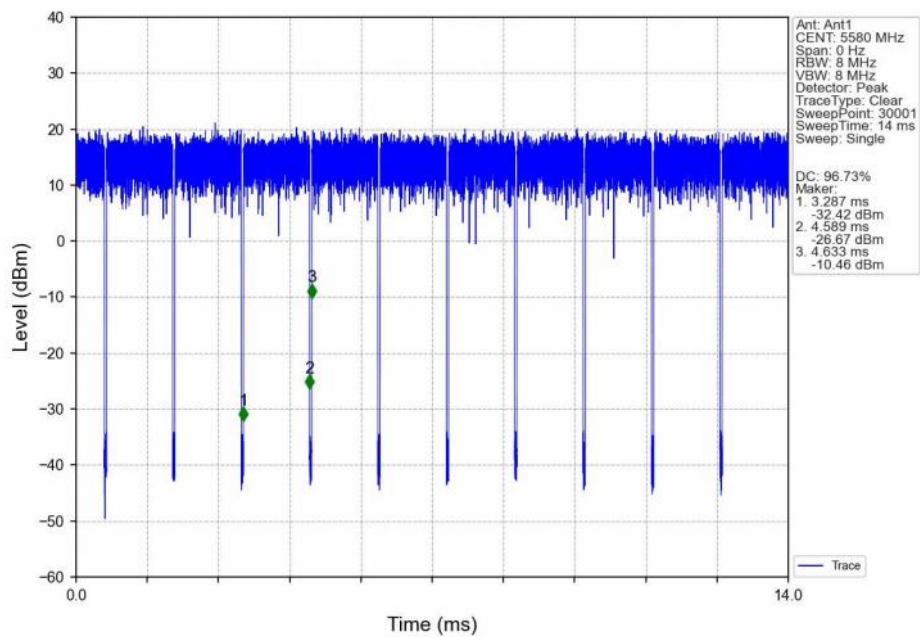
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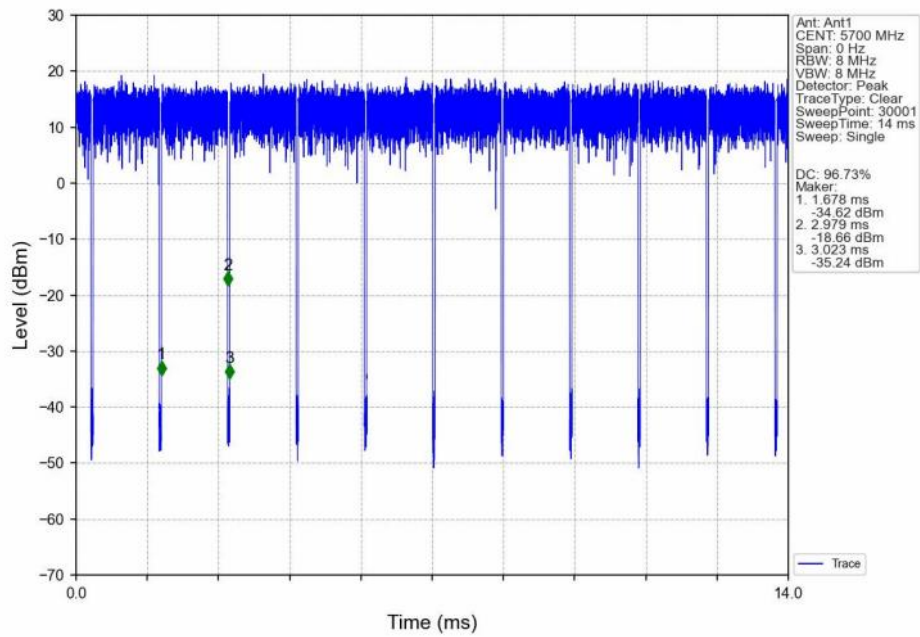
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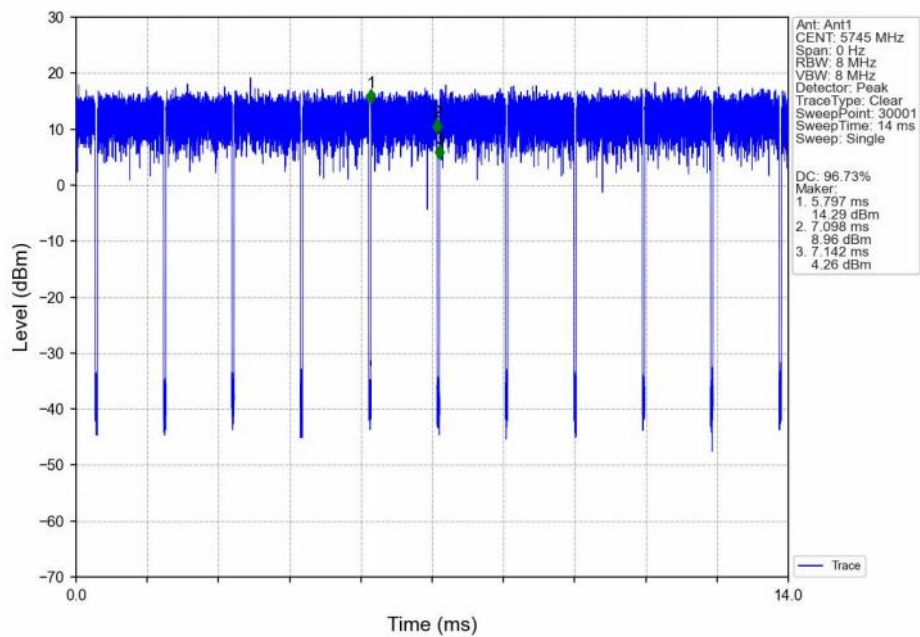
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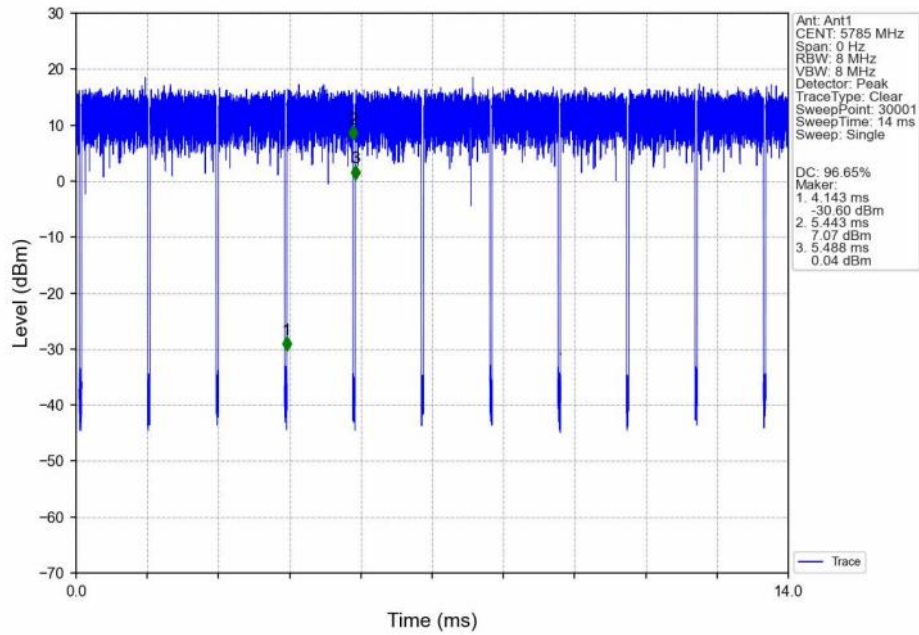
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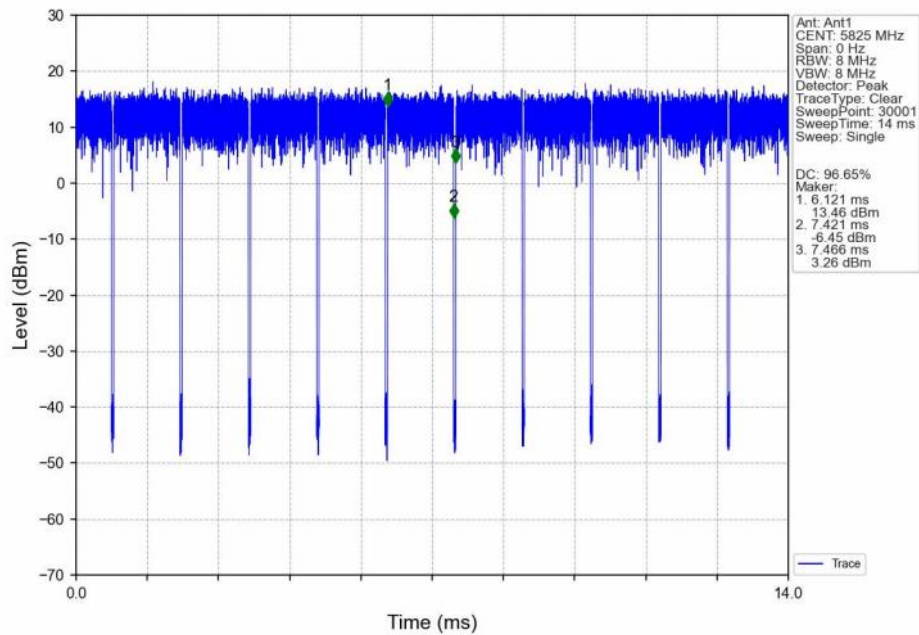
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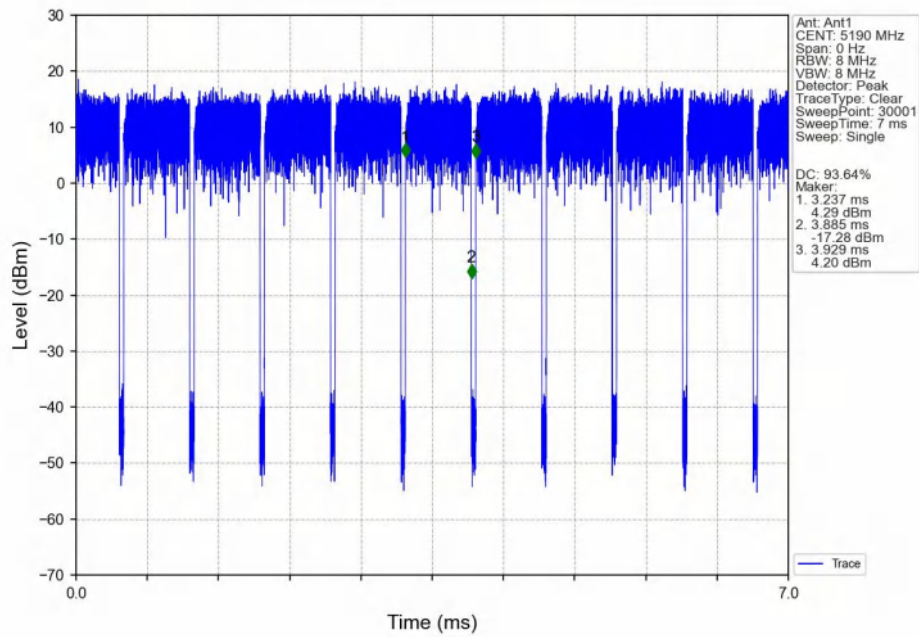
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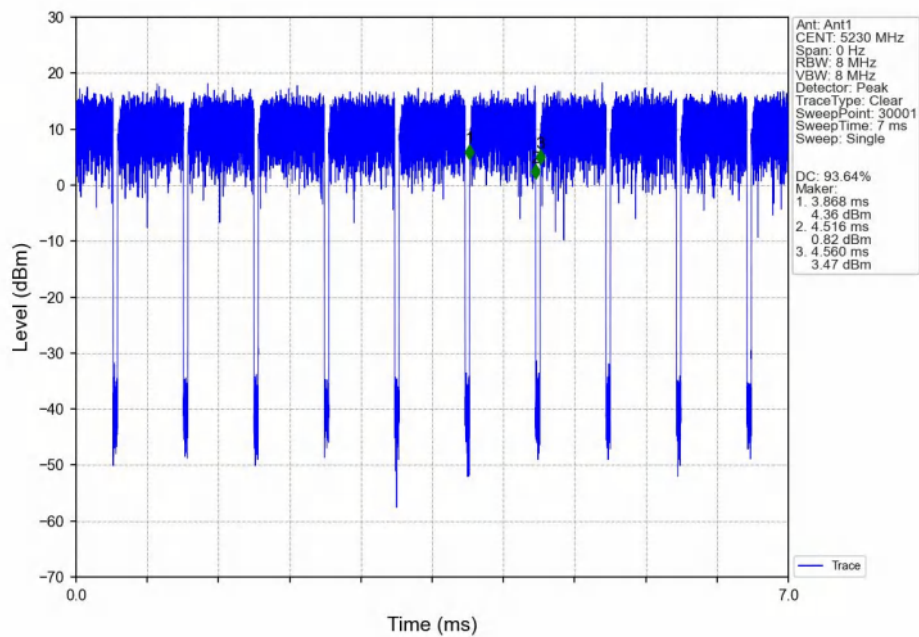
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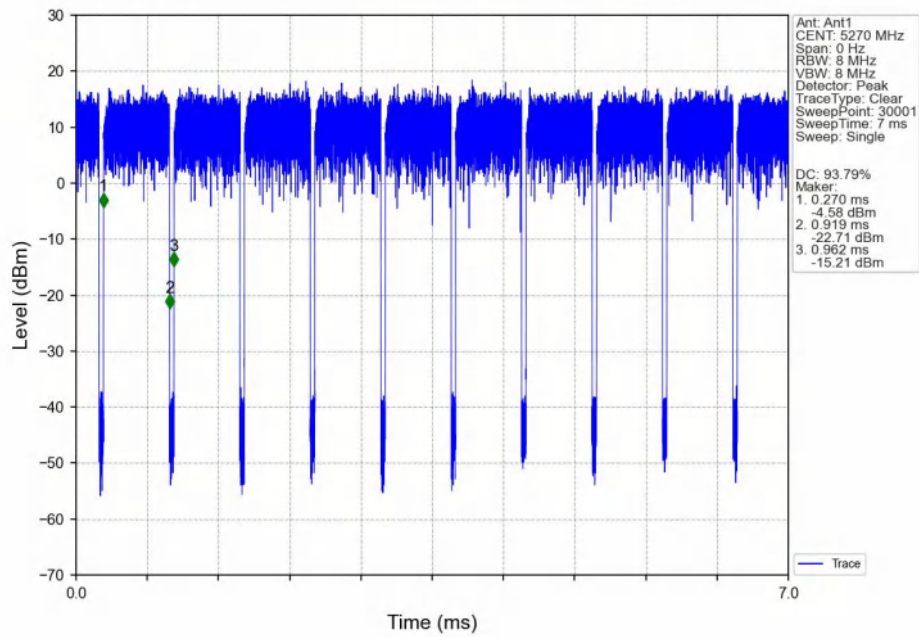
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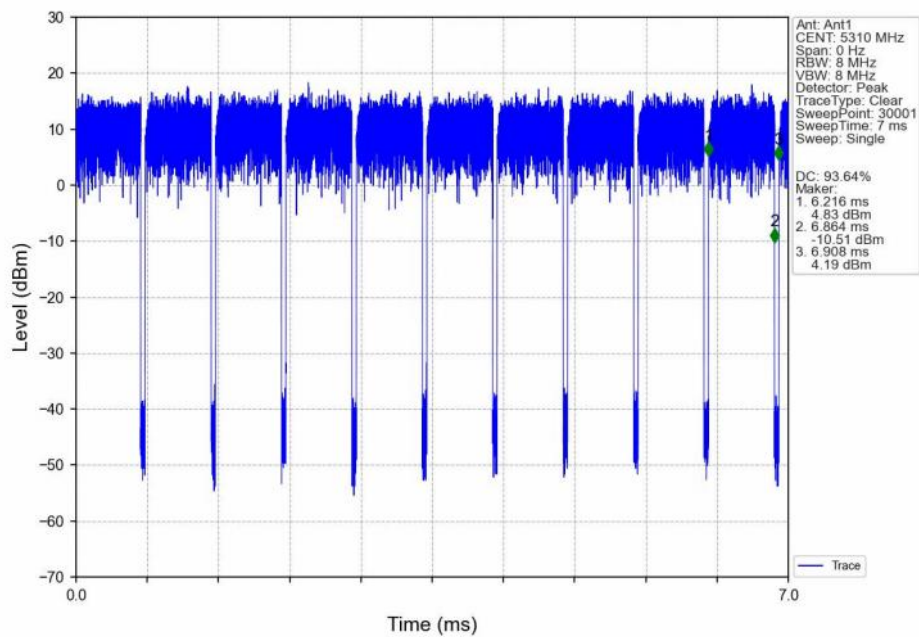
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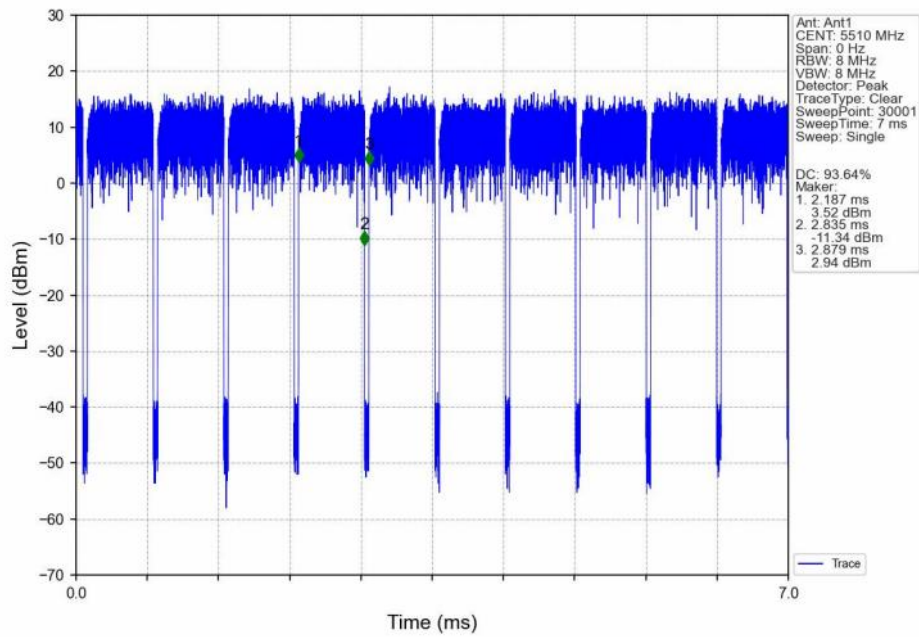
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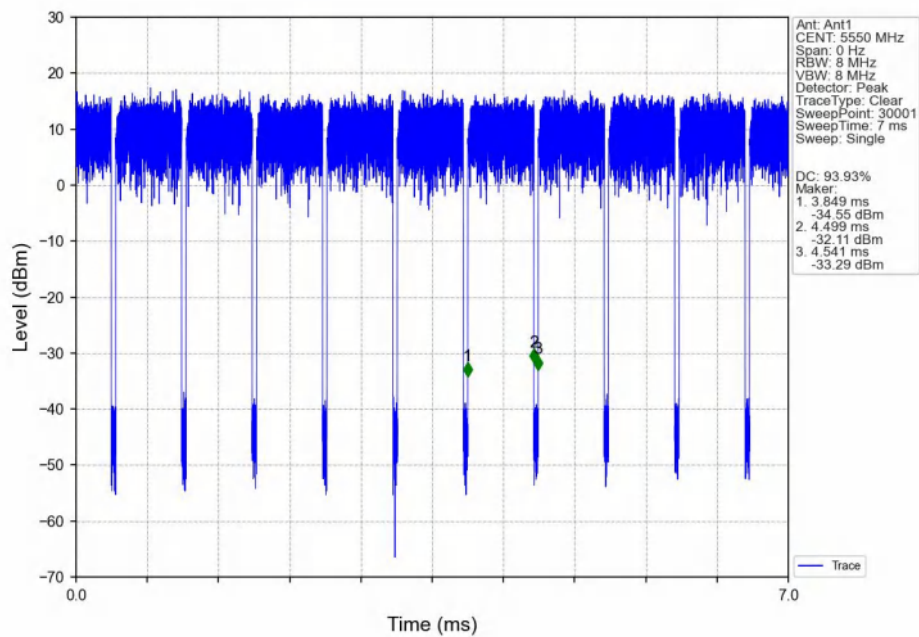
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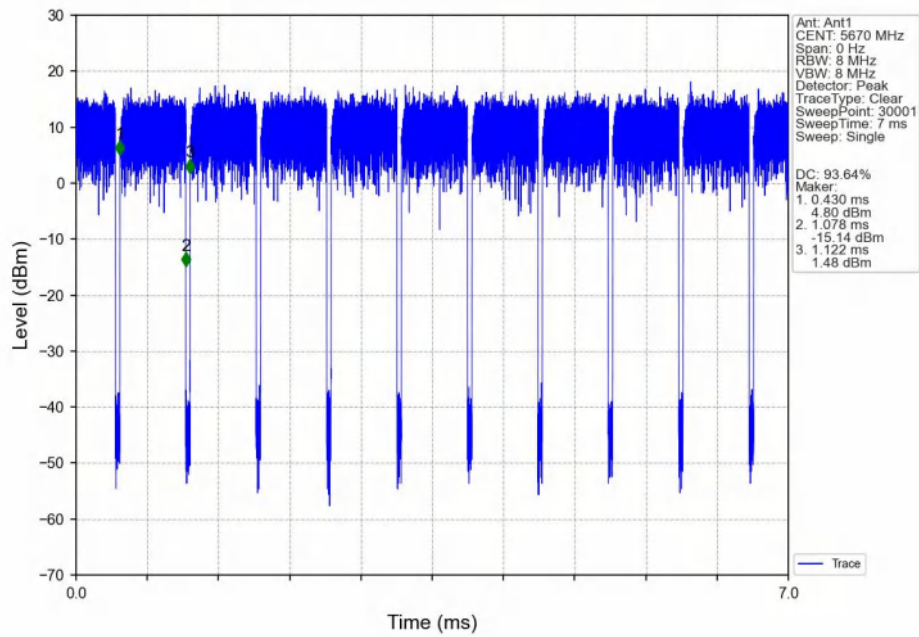
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



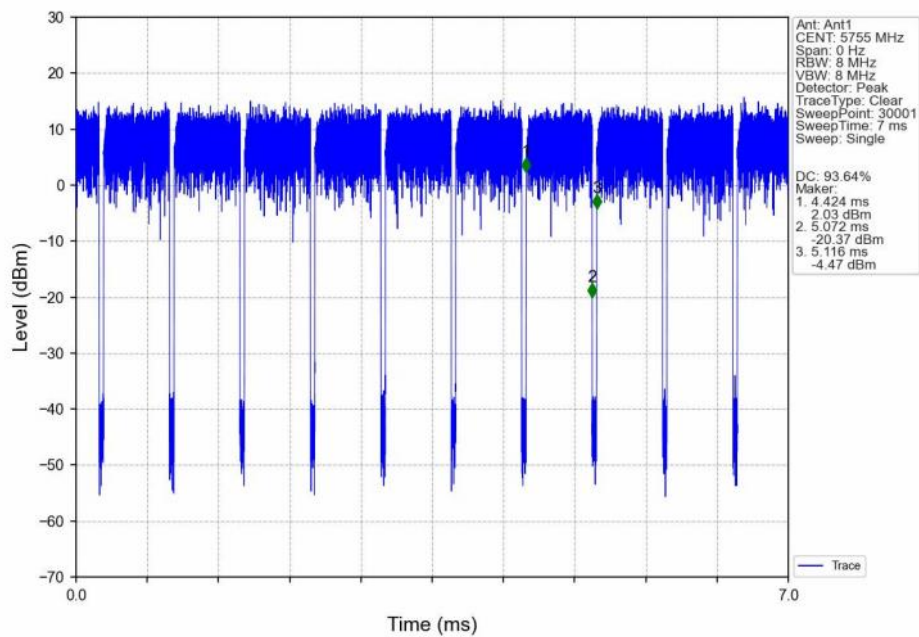
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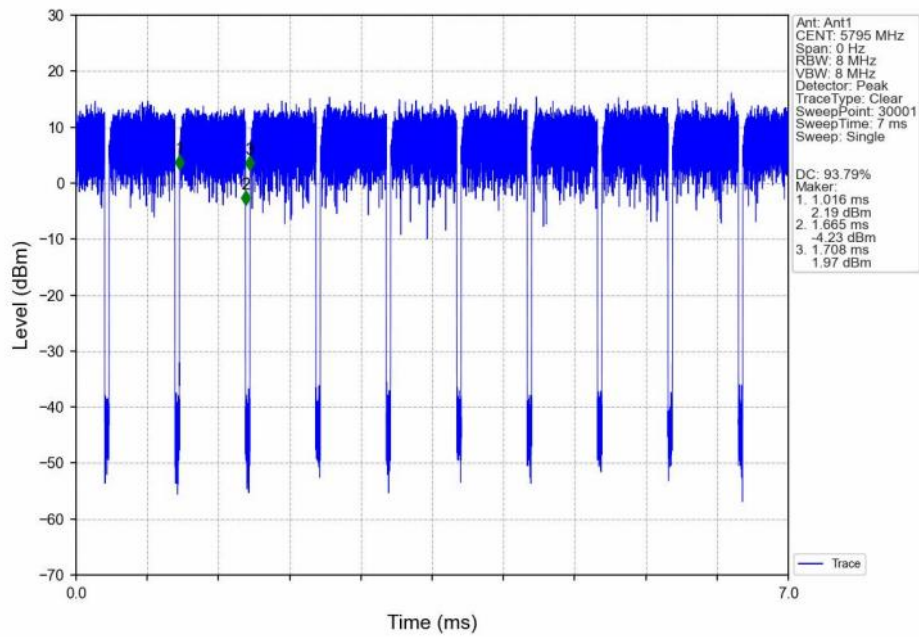
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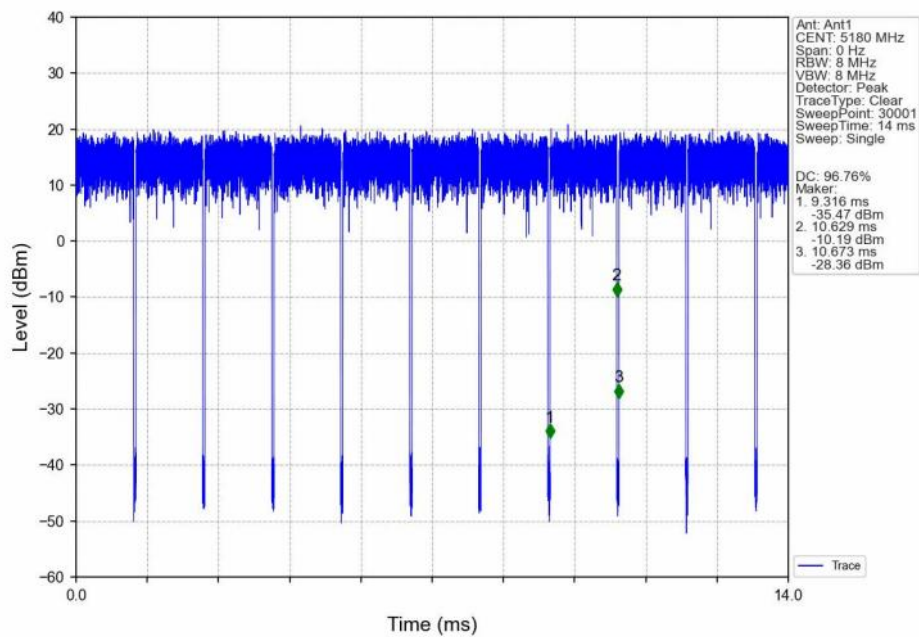
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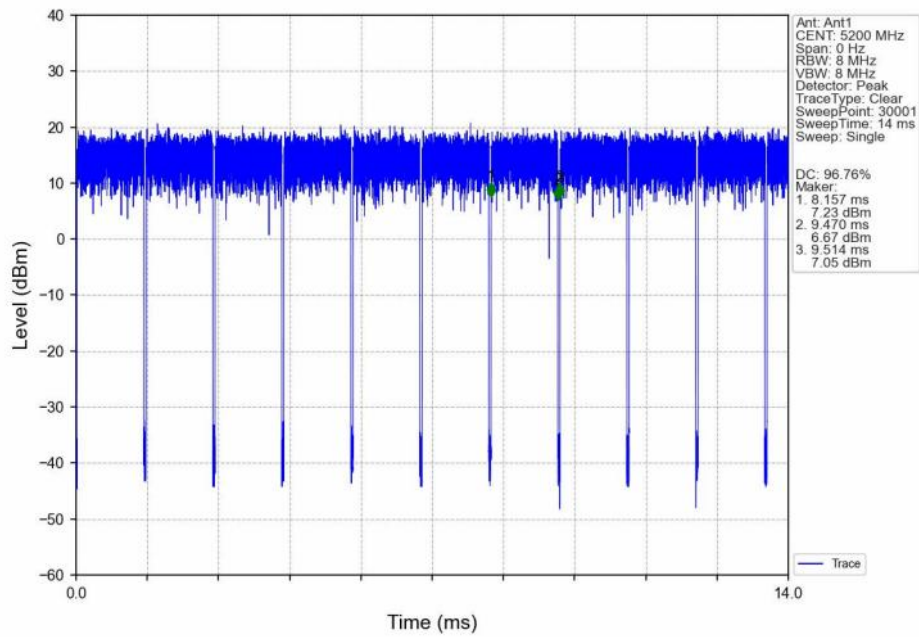
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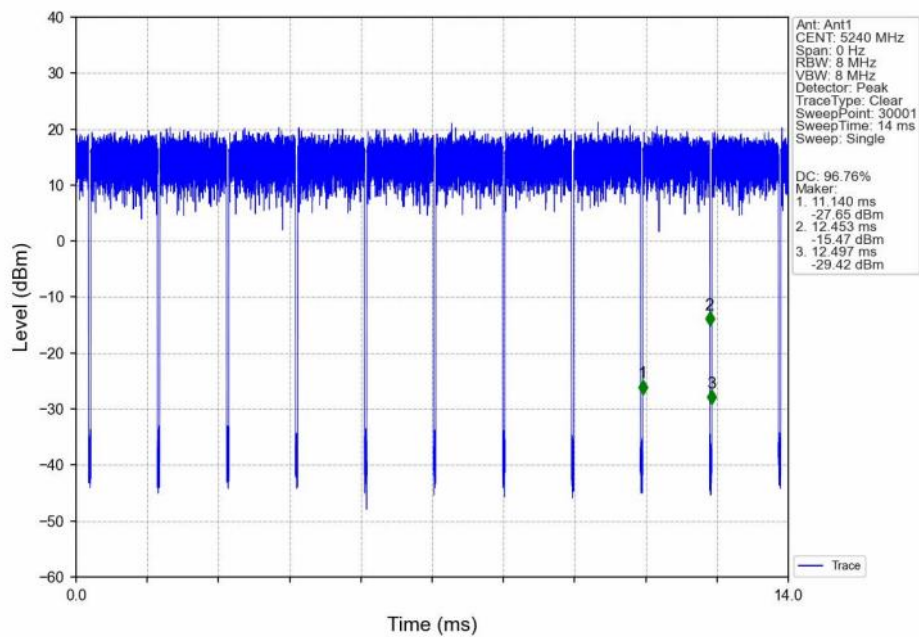
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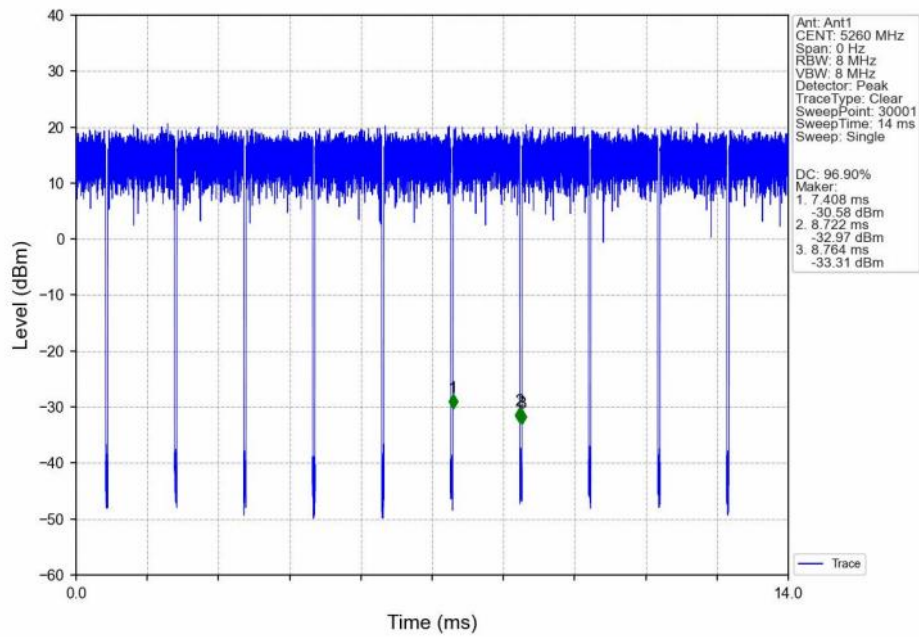
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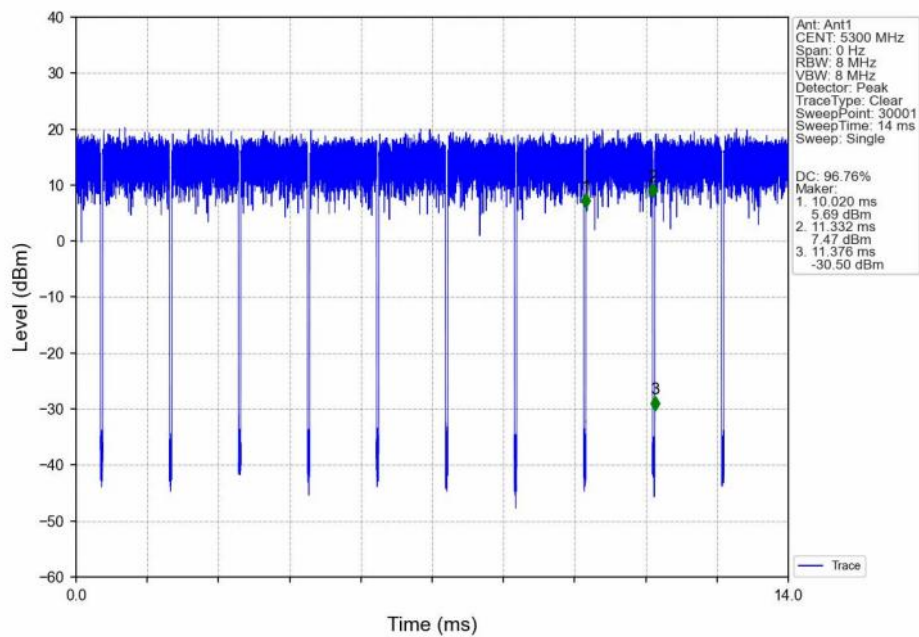
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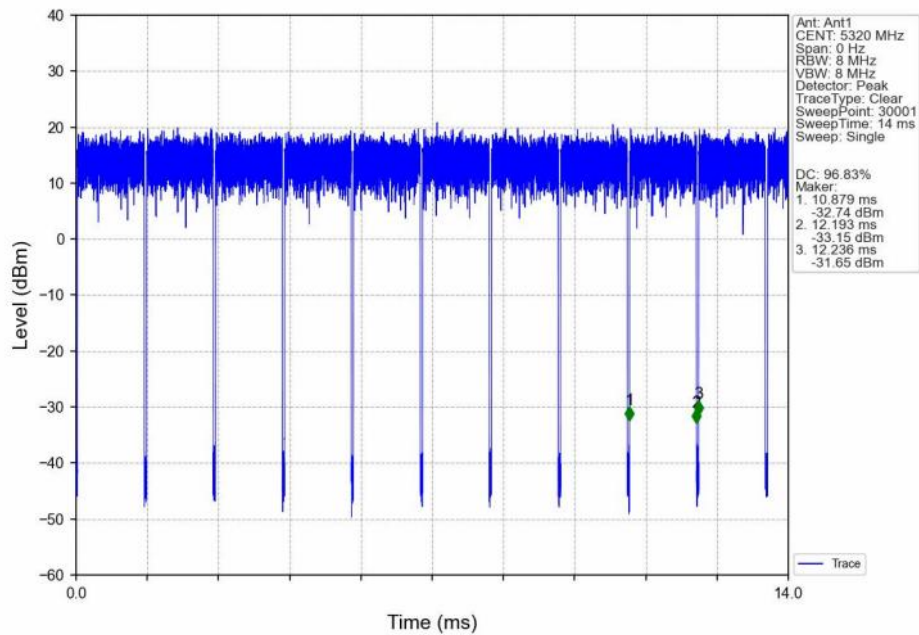
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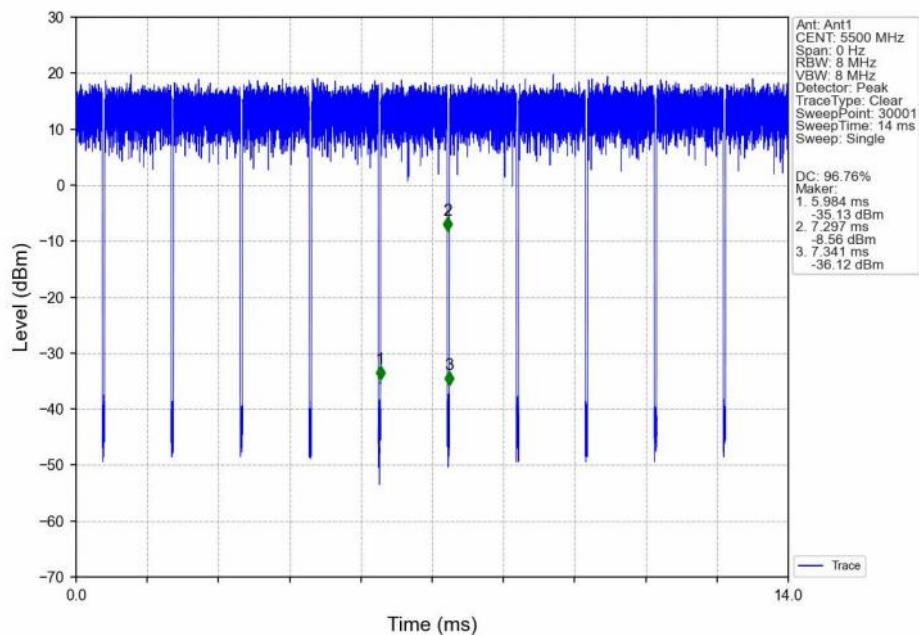
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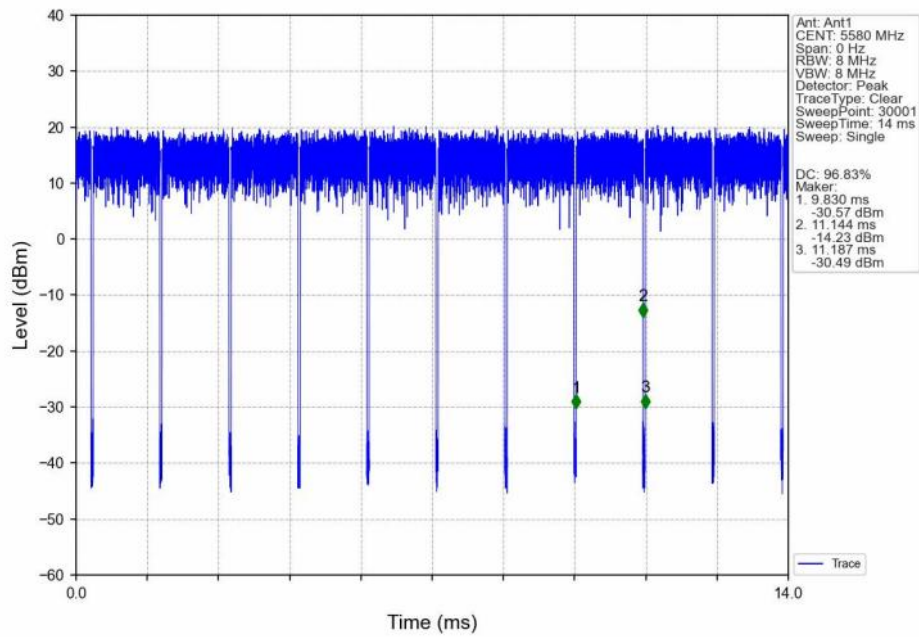
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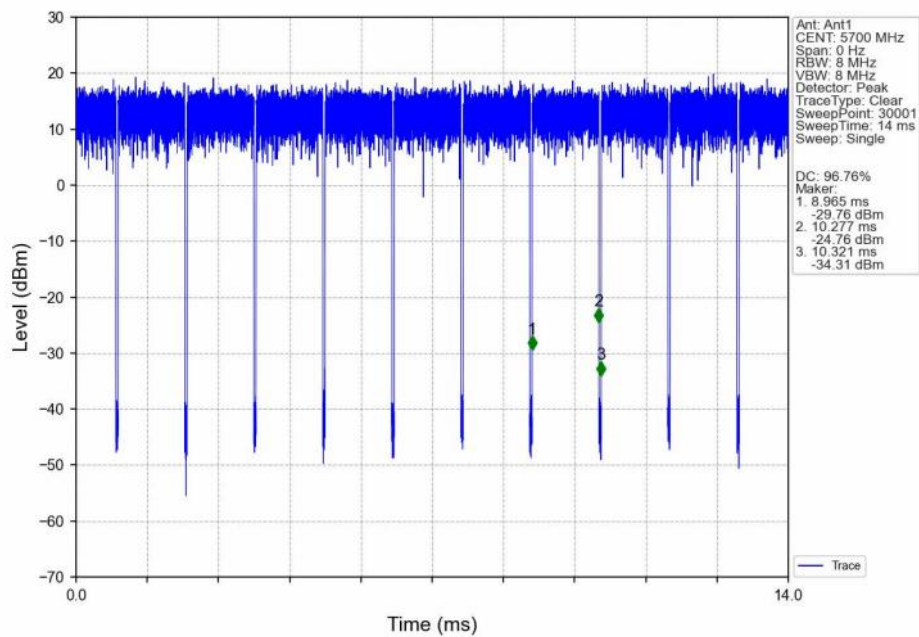
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



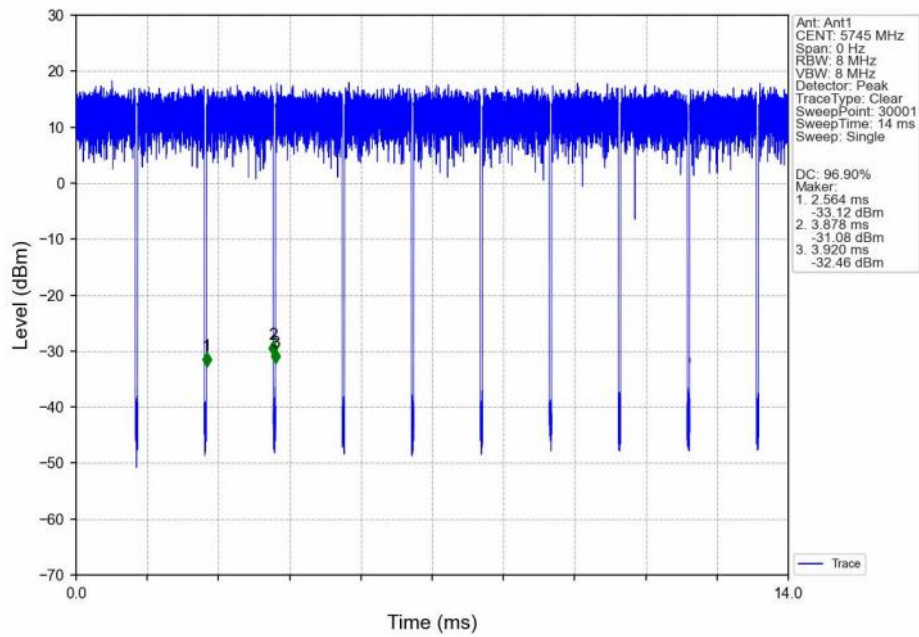
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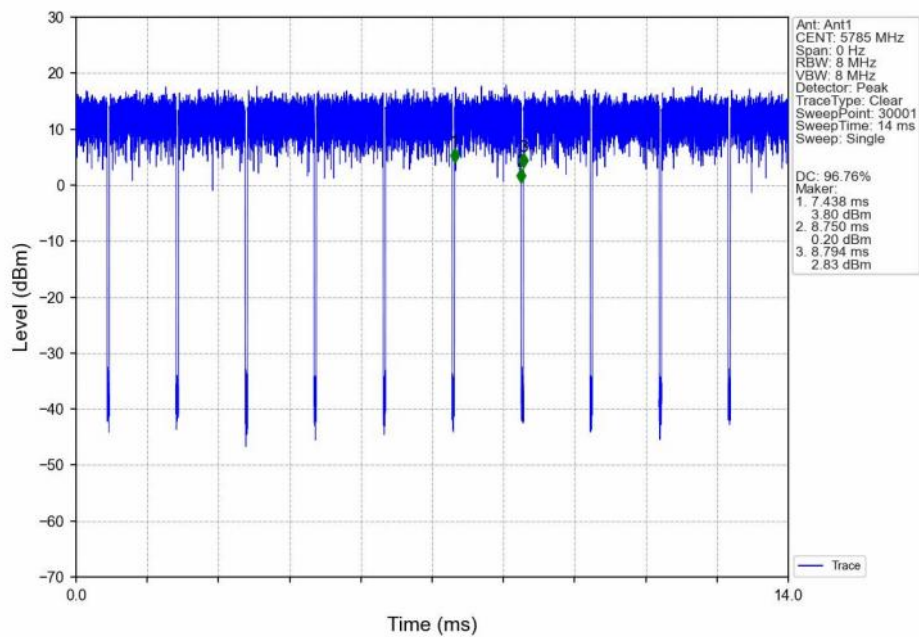
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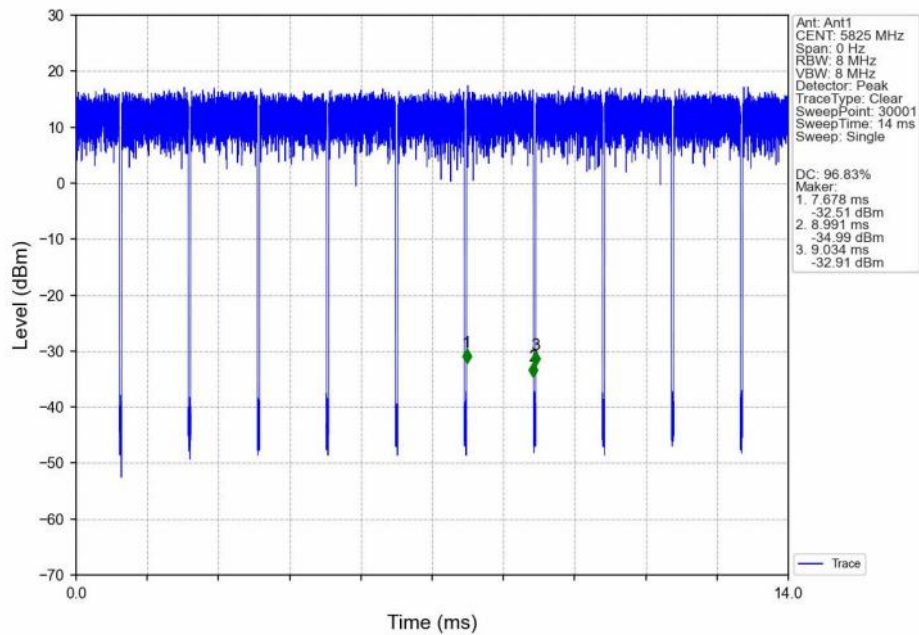
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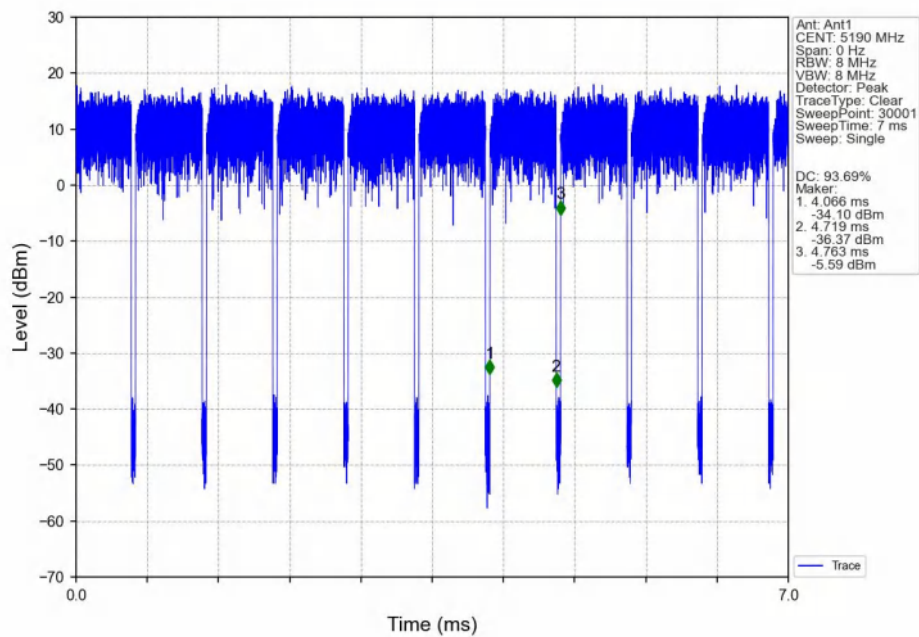
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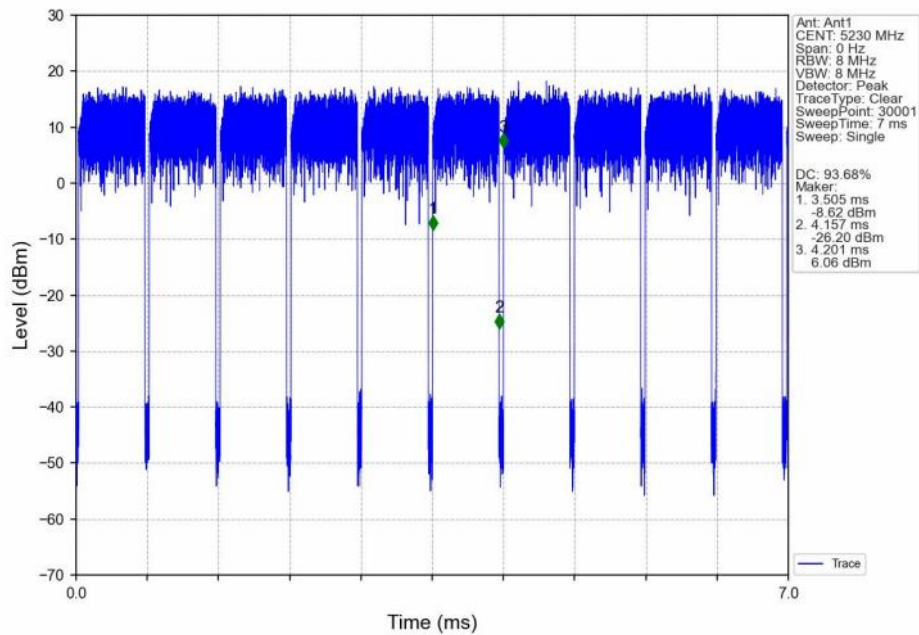
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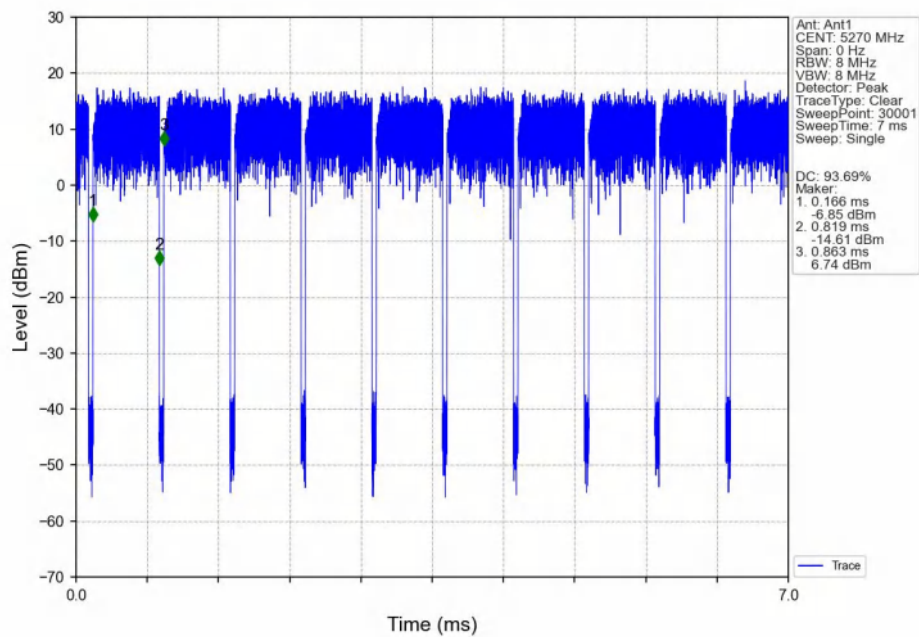
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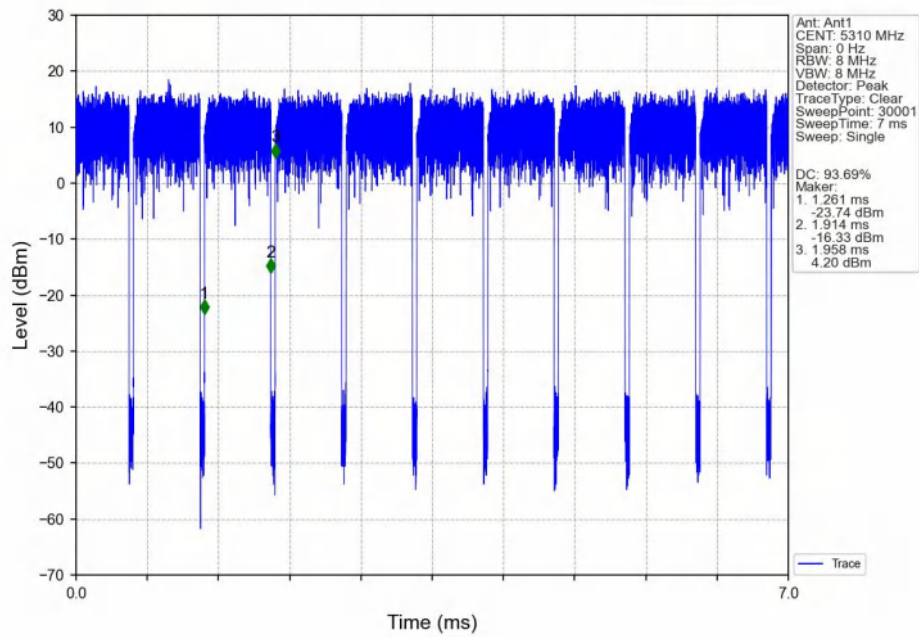
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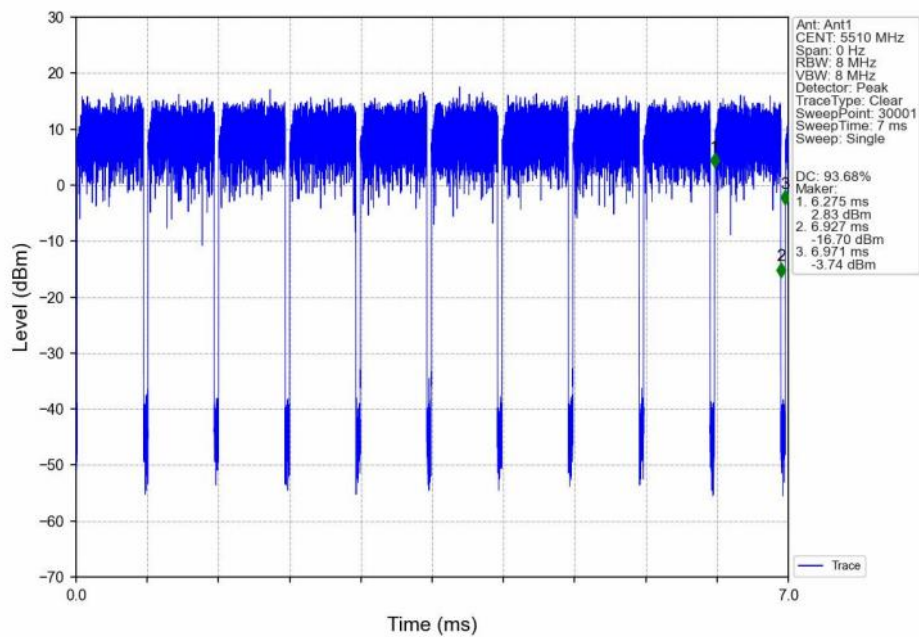
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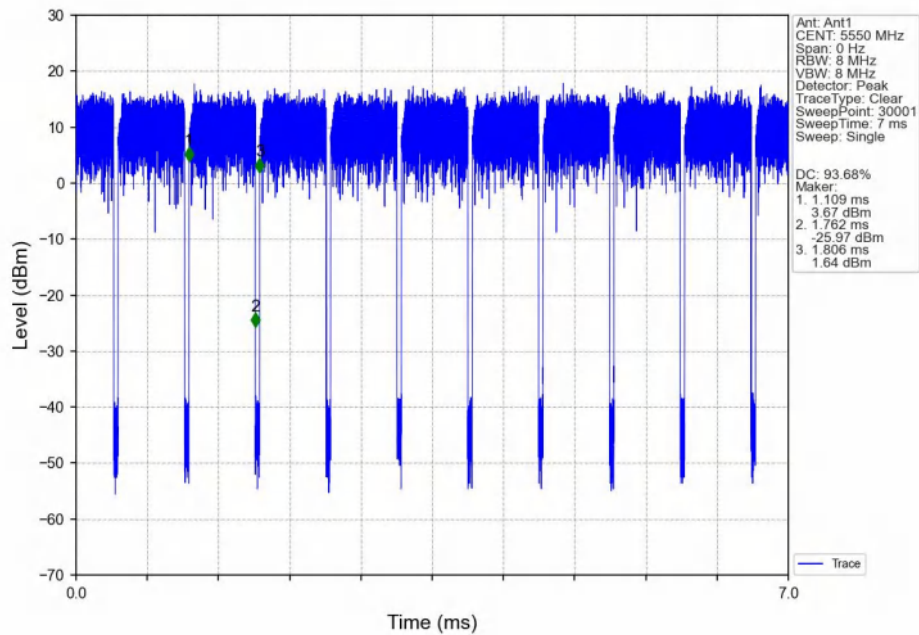
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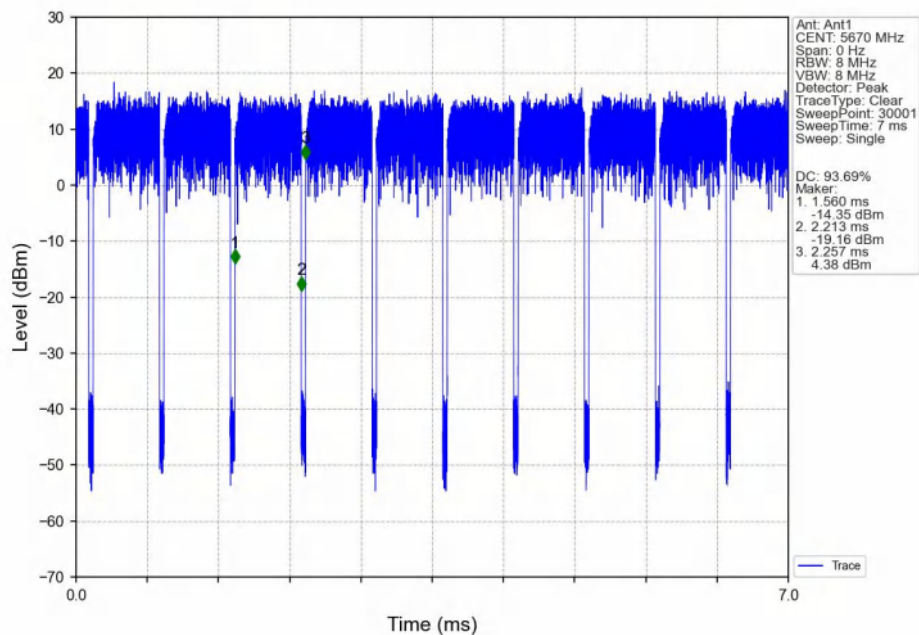
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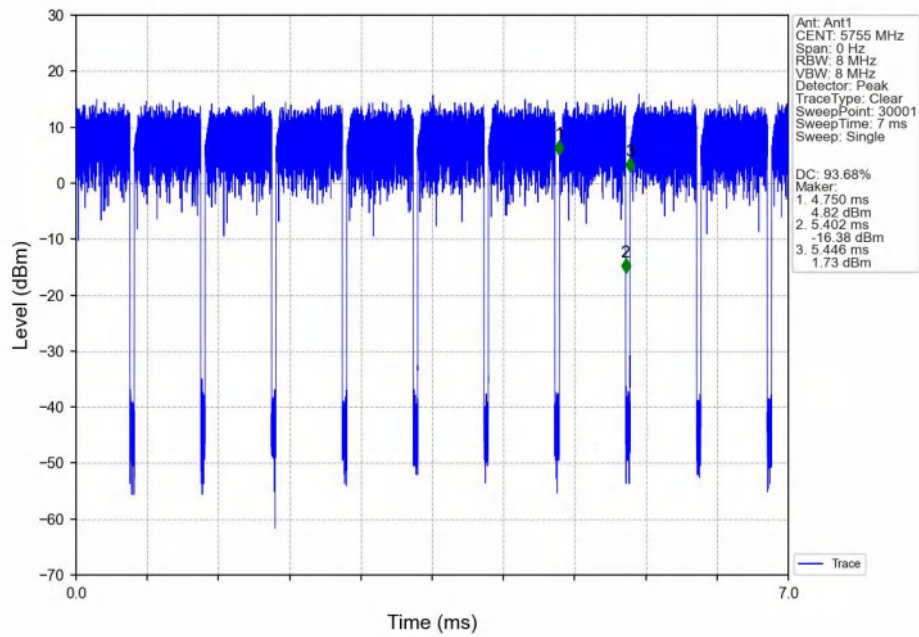
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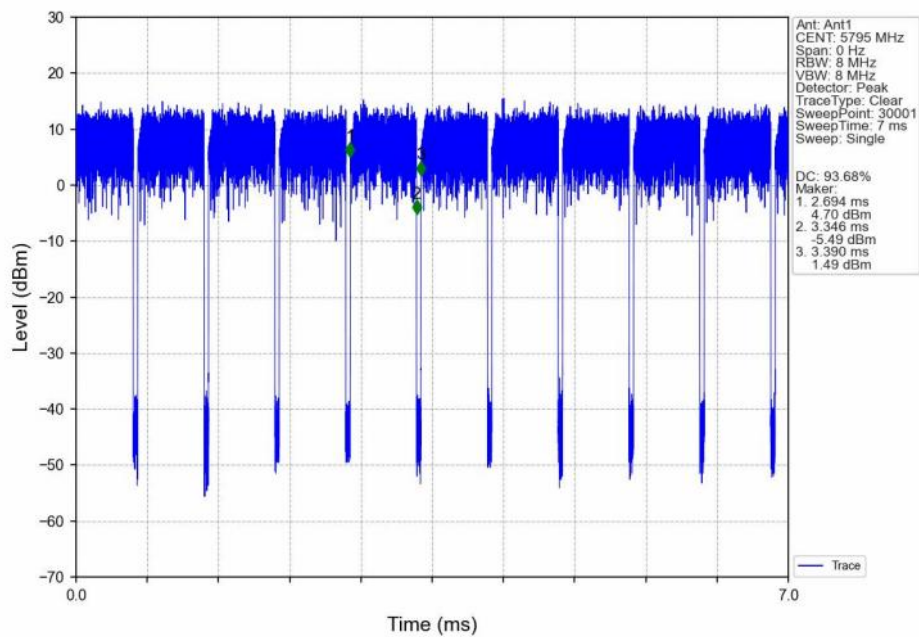
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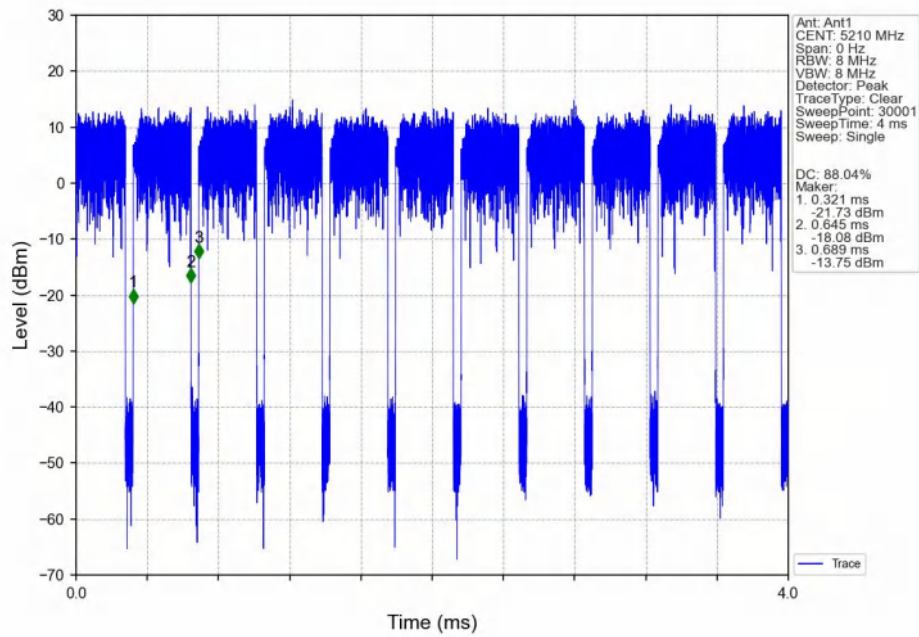
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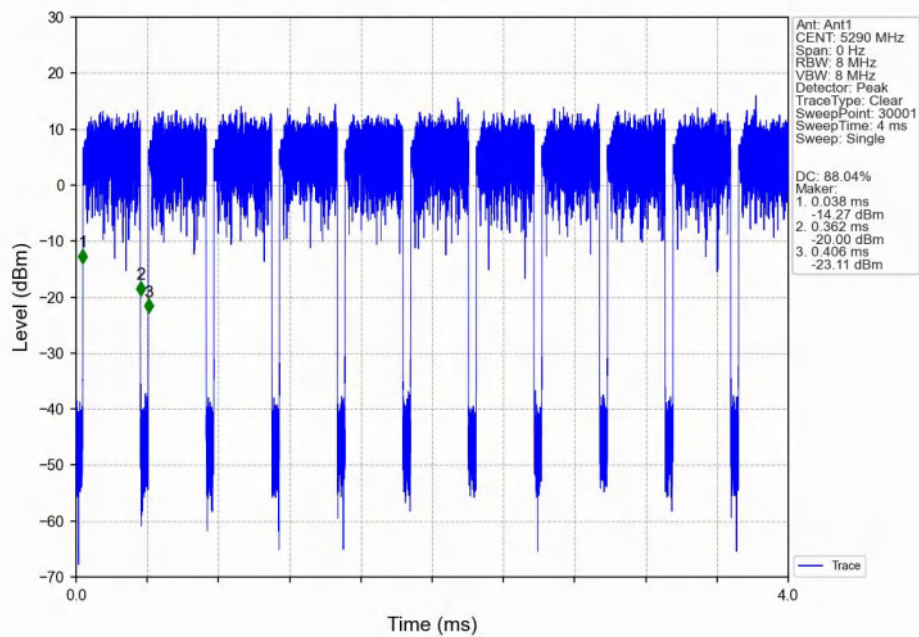
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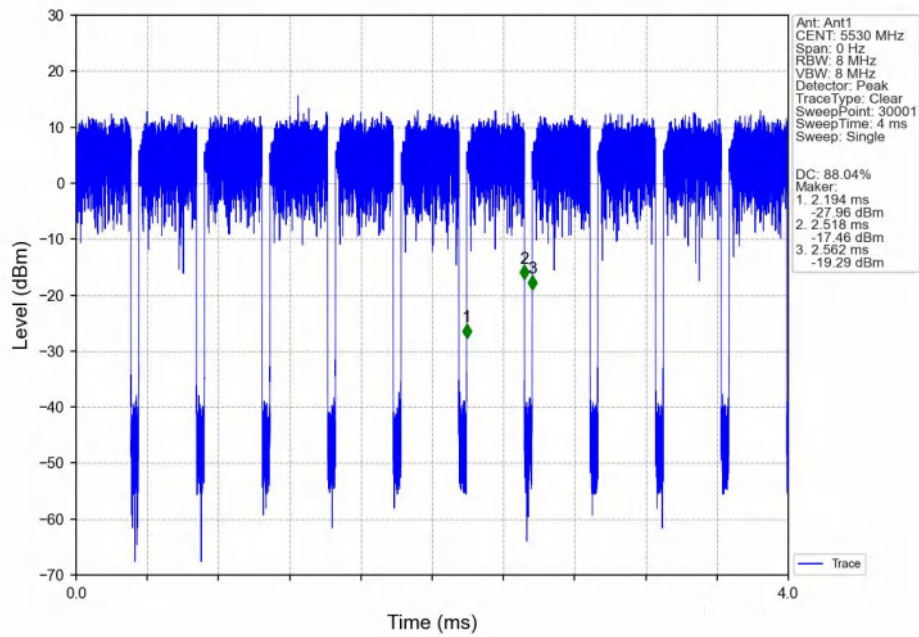
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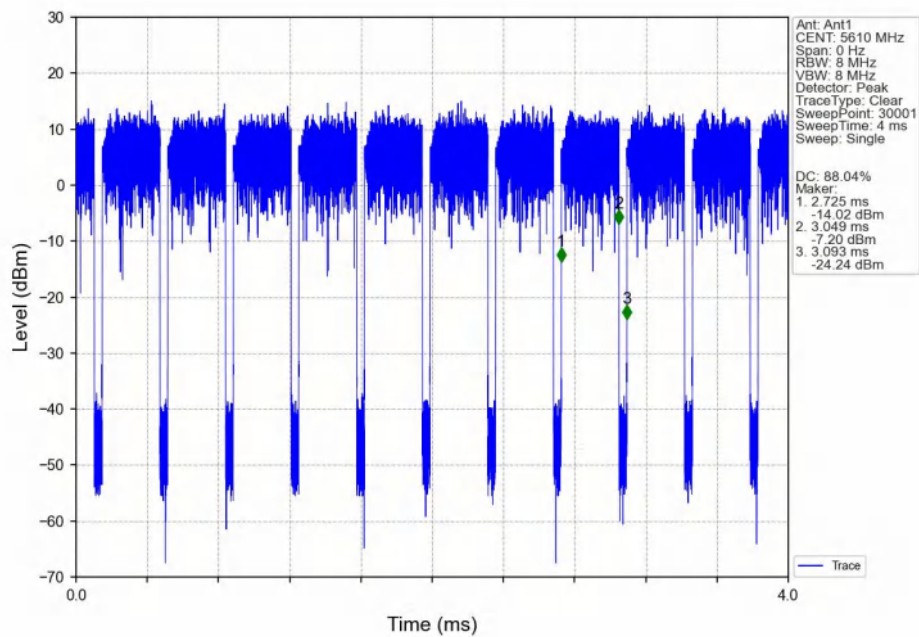
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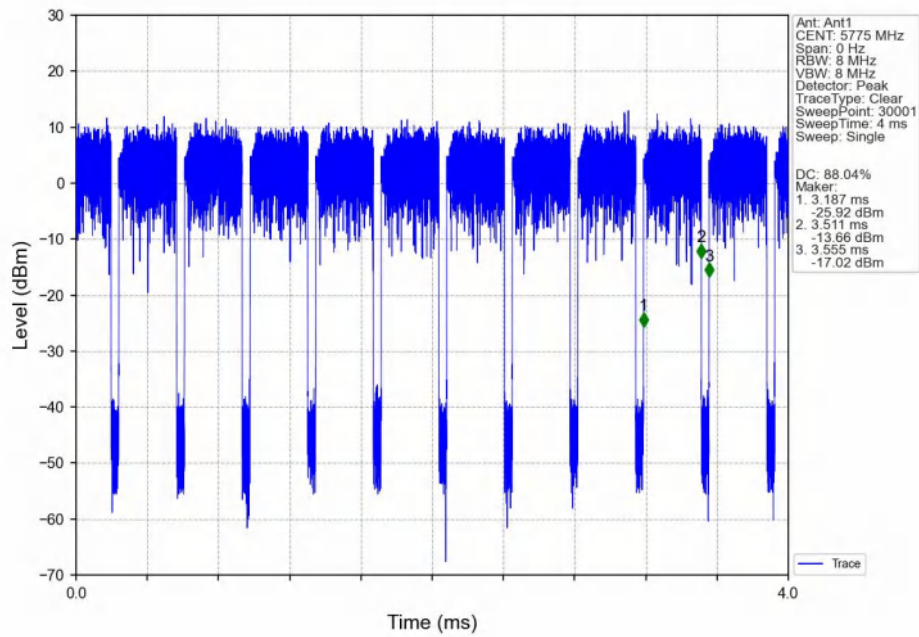
802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



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	17.490	/	Pass
		5200	1	17.551	/	Pass
		5240	1	17.402	/	Pass
		5260	1	17.447	/	Pass
		5300	1	17.539	/	Pass
		5320	1	17.567	/	Pass
		5500	1	17.709	/	Pass
		5580	1	17.520	/	Pass
		5700	1	17.405	/	Pass
		5745	1	17.547	/	Pass
		5785	1	17.587	/	Pass
802.11n (HT20)	SISO	5180	1	18.342	/	Pass
		5200	1	18.559	/	Pass
		5240	1	18.321	/	Pass
		5260	1	18.378	/	Pass
		5300	1	18.432	/	Pass
		5320	1	18.404	/	Pass
		5500	1	18.486	/	Pass
		5580	1	18.426	/	Pass
		5700	1	18.377	/	Pass
		5745	1	18.468	/	Pass
		5785	1	18.442	/	Pass
802.11n (HT40)	SISO	5190	1	36.811	/	Pass
		5230	1	36.716	/	Pass
		5270	1	36.746	/	Pass
		5310	1	36.793	/	Pass
		5510	1	37.038	/	Pass
		5550	1	36.815	/	Pass
		5670	1	36.803	/	Pass
		5755	1	36.803	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.294	/	Pass
		5200	1	18.341	/	Pass
		5240	1	18.258	/	Pass
		5260	1	18.242	/	Pass
		5300	1	18.232	/	Pass
		5320	1	18.235	/	Pass
		5500	1	18.427	/	Pass
		5580	1	18.284	/	Pass
		5700	1	18.207	/	Pass
		5745	1	18.356	/	Pass
		5785	1	18.448	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.643	/	Pass
		5230	1	36.517	/	Pass
		5270	1	36.482	/	Pass

		5310	1	36.562	/	Pass
		5510	1	36.723	/	Pass
		5550	1	36.605	/	Pass
		5670	1	36.544	/	Pass
		5755	1	36.692	/	Pass
		5795	1	36.762	/	Pass
802.11ac (VHT80)	SISO	5210	1	76.447	/	Pass
		5290	1	76.033	/	Pass
		5530	1	76.636	/	Pass
		5610	1	76.187	/	Pass
		5775	1	76.896	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	28.287	/	Pass
		5200	1	26.265	/	Pass
		5240	1	27.286	/	Pass
		5260	1	27.347	/	Pass
		5300	1	26.971	/	Pass
		5320	1	24.677	/	Pass
		5500	1	32.357	/	Pass
		5580	1	24.034	/	Pass
802.11n (HT20)	SISO	5700	1	28.361	/	Pass
		5180	1	33.070	/	Pass
		5200	1	33.399	/	Pass
		5240	1	27.866	/	Pass
		5260	1	32.593	/	Pass
		5300	1	29.078	/	Pass
		5320	1	29.728	/	Pass
		5500	1	32.133	/	Pass
802.11n (HT40)	SISO	5580	1	27.758	/	Pass
		5700	1	30.867	/	Pass
		5190	1	67.165	/	Pass
		5230	1	67.363	/	Pass
		5270	1	66.466	/	Pass
		5310	1	64.594	/	Pass
802.11ac (VHT20)	SISO	5510	1	72.898	/	Pass
		5550	1	67.107	/	Pass
		5670	1	68.119	/	Pass
		5180	1	28.256	/	Pass
		5200	1	31.825	/	Pass
		5240	1	29.326	/	Pass
		5260	1	28.997	/	Pass
		5300	1	33.092	/	Pass
802.11ac (VHT40)	SISO	5320	1	29.693	/	Pass
		5500	1	30.393	/	Pass
		5580	1	30.693	/	Pass
		5700	1	32.379	/	Pass
		5190	1	63.148	/	Pass
		5230	1	50.674	/	Pass
		5270	1	47.792	/	Pass
802.11ac	SISO	5310	1	54.368	/	Pass
		5510	1	63.931	/	Pass
		5550	1	58.393	/	Pass
		5670	1	54.620	/	Pass
		5210	1	121.220	/	Pass

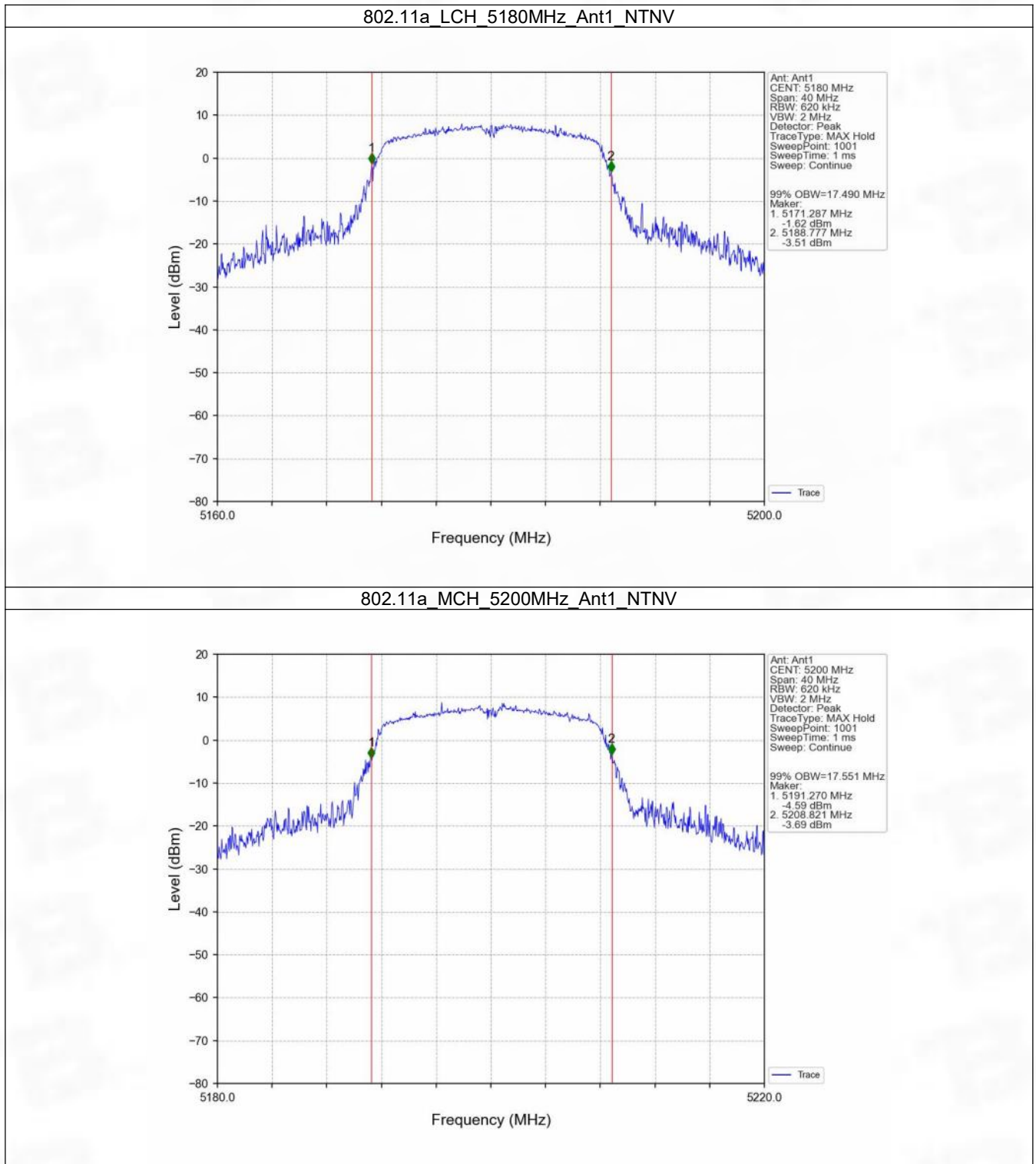
(VHT80)		5290	1	102.657	/	Pass
		5530	1	118.172	/	Pass
		5610	1	107.838	/	Pass

2.1.3 6dB BW

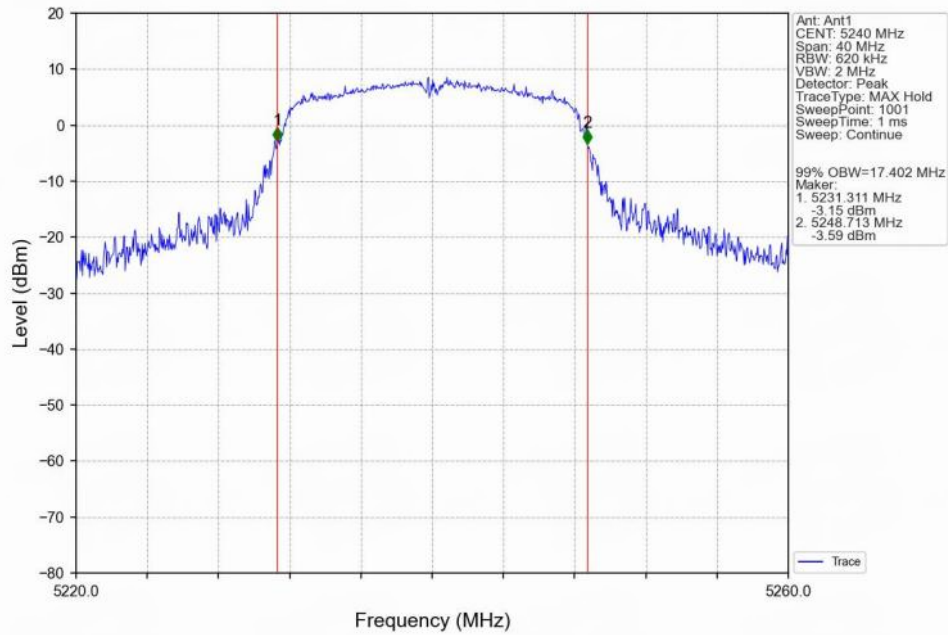
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.130	>=0.5	Pass
		5785	1	14.115	>=0.5	Pass
		5825	1	15.070	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	13.932	>=0.5	Pass
		5785	1	15.129	>=0.5	Pass
		5825	1	15.103	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	35.074	>=0.5	Pass
		5795	1	35.135	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.123	>=0.5	Pass
		5785	1	16.957	>=0.5	Pass
		5825	1	15.081	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	33.916	>=0.5	Pass
		5795	1	35.084	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	73.897	>=0.5	Pass

2.2 Test Graph

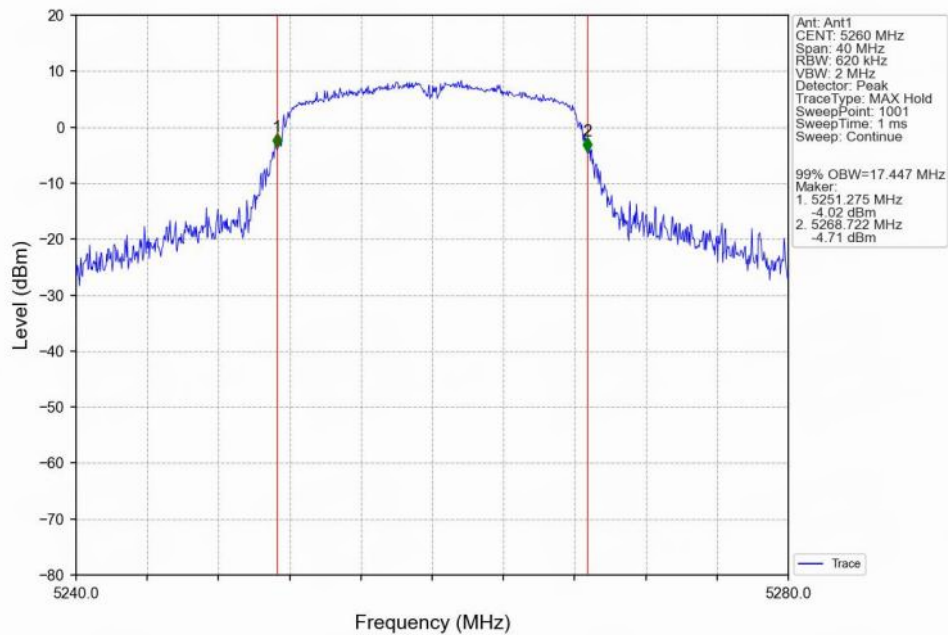
2.2.1 OBW



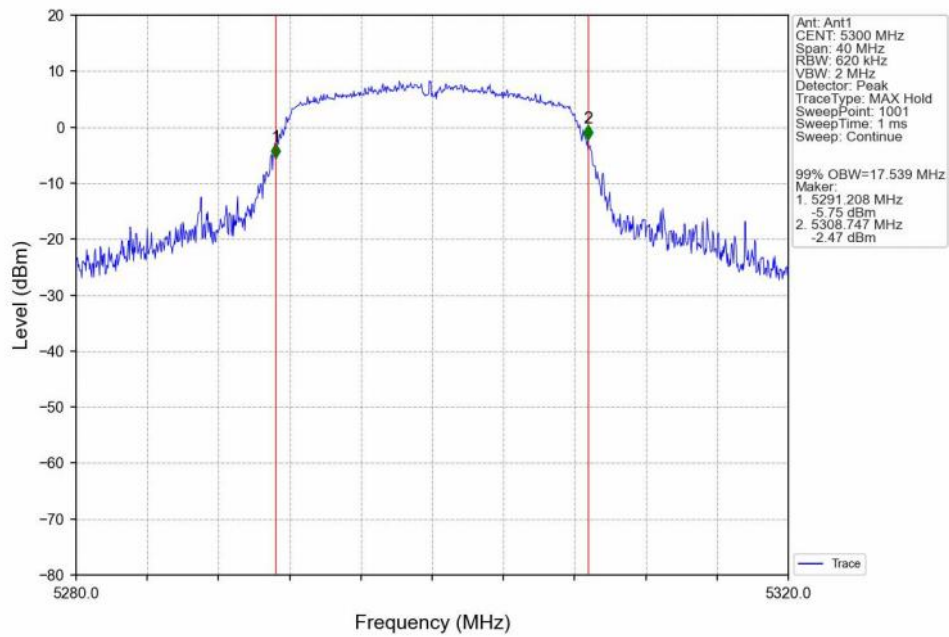
802.11a_HCH_5240MHz_Ant1_NTNV



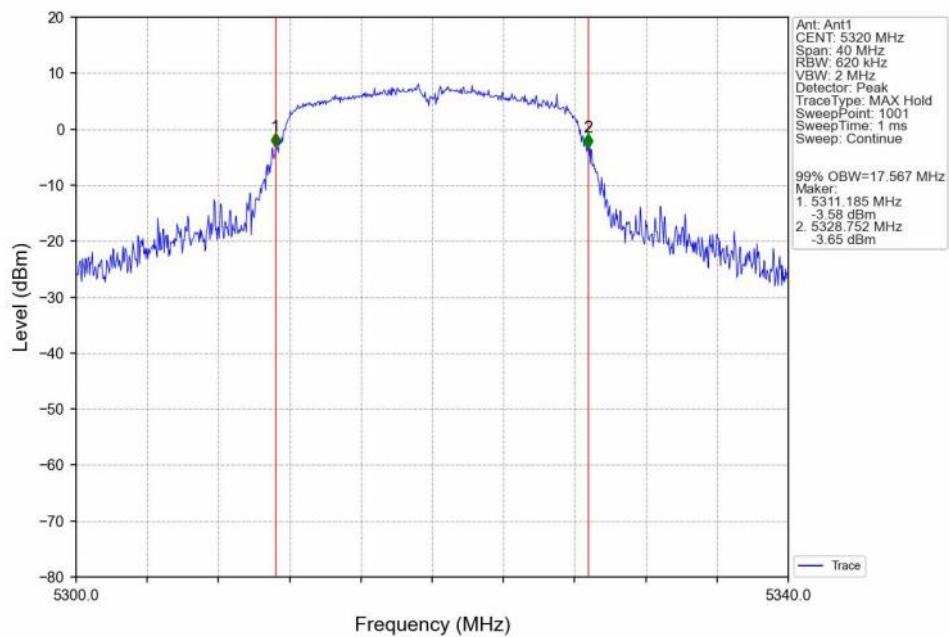
802.11a_LCH_5260MHz_Ant1_NTNV



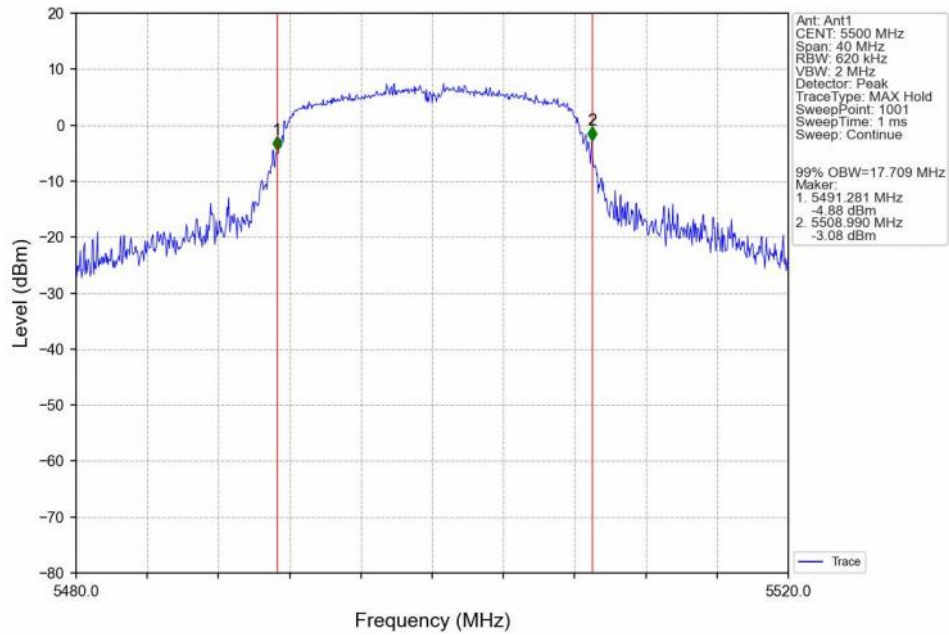
802.11a_MCH_5300MHz_Ant1_NTNV



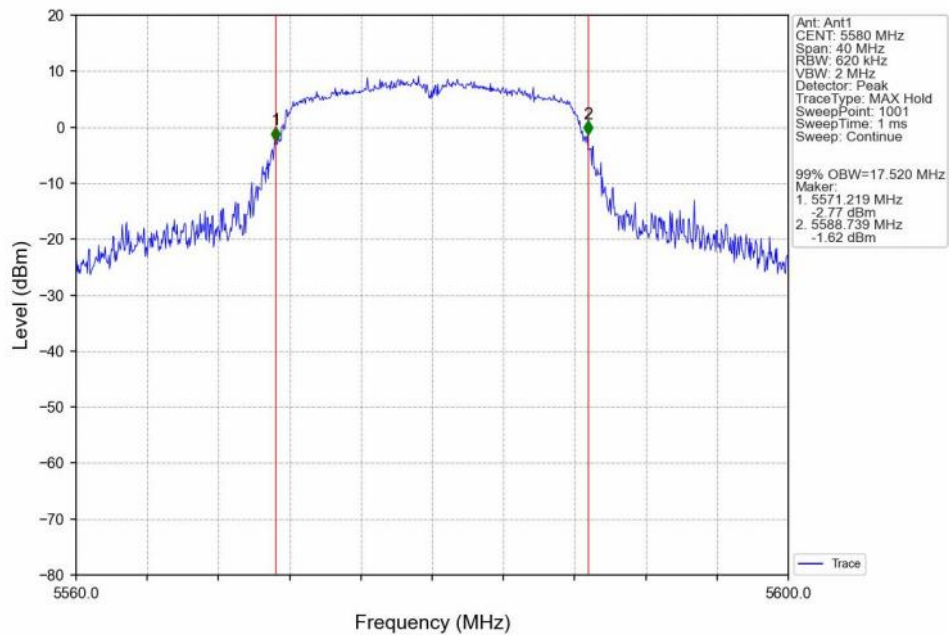
802.11a_HCH_5320MHz_Ant1_NTNV



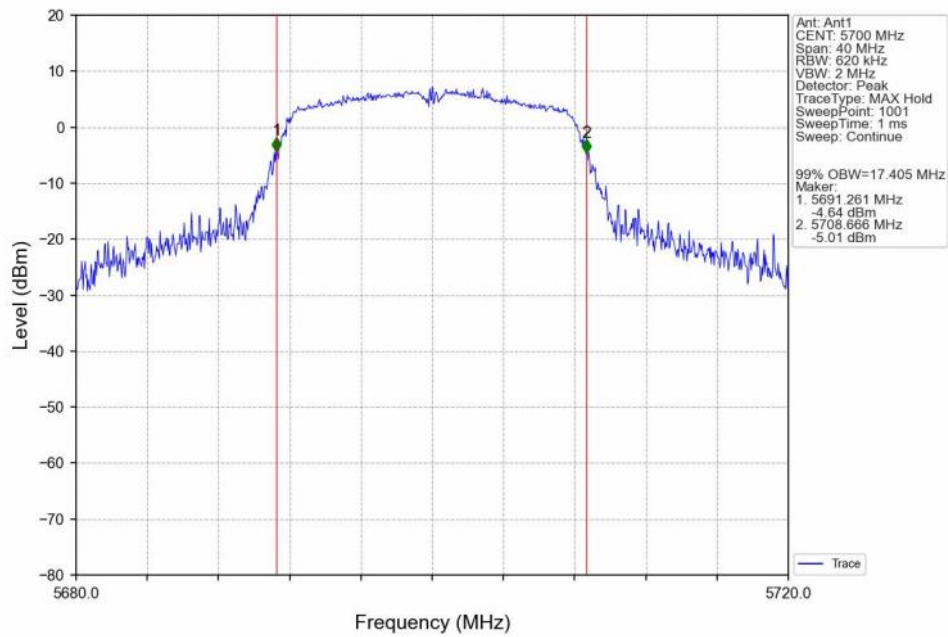
802.11a_LCH_5500MHz_Ant1_NTNV



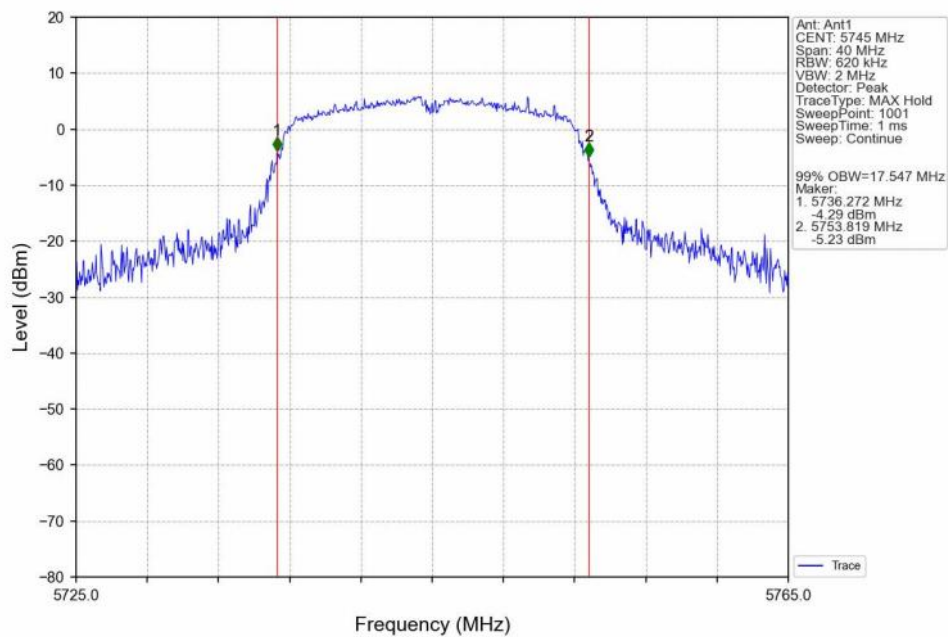
802.11a_MCH_5580MHz_Ant1_NTNV



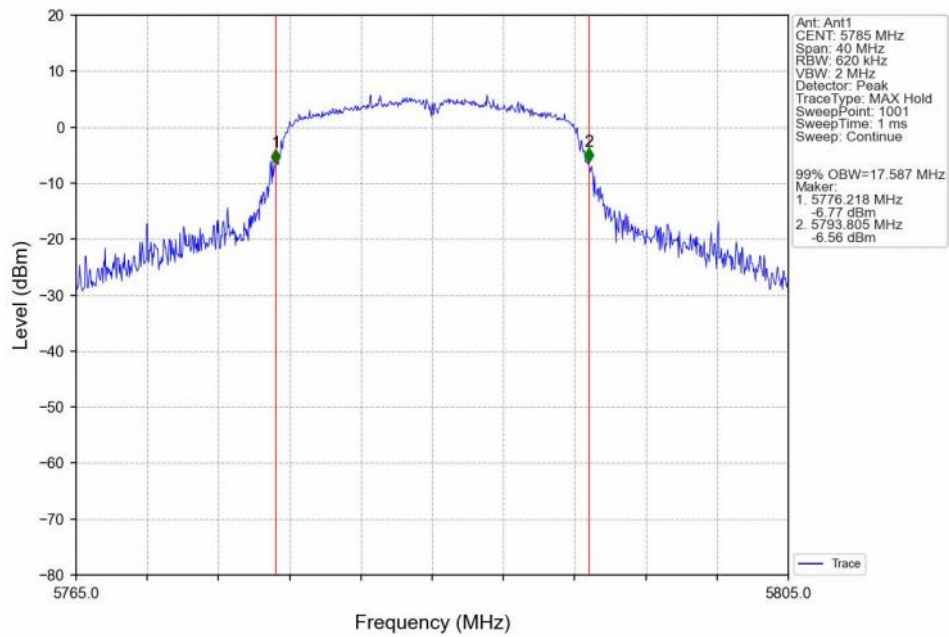
802.11a_HCH_5700MHz_Ant1_NTNV



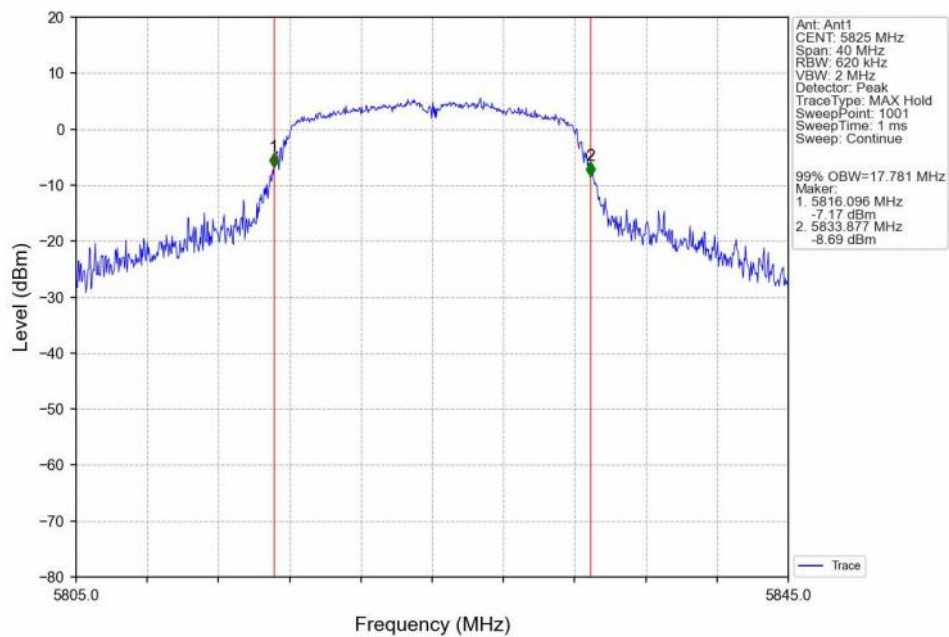
802.11a_LCH_5745MHz_Ant1_NTNV



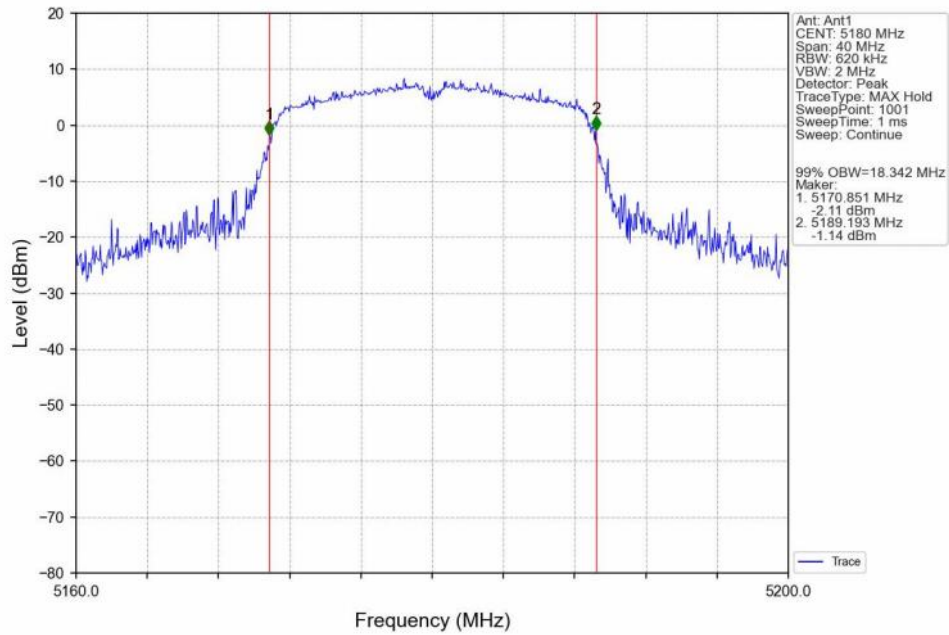
802.11a_MCH_5785MHz_Ant1_NTNV



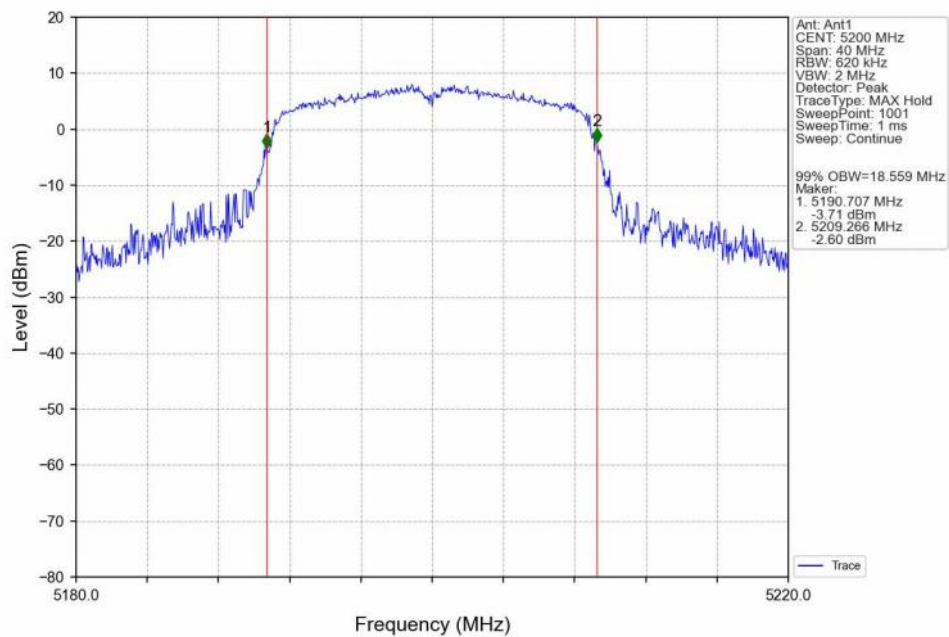
802.11a_HCH_5825MHz_Ant1_NTNV



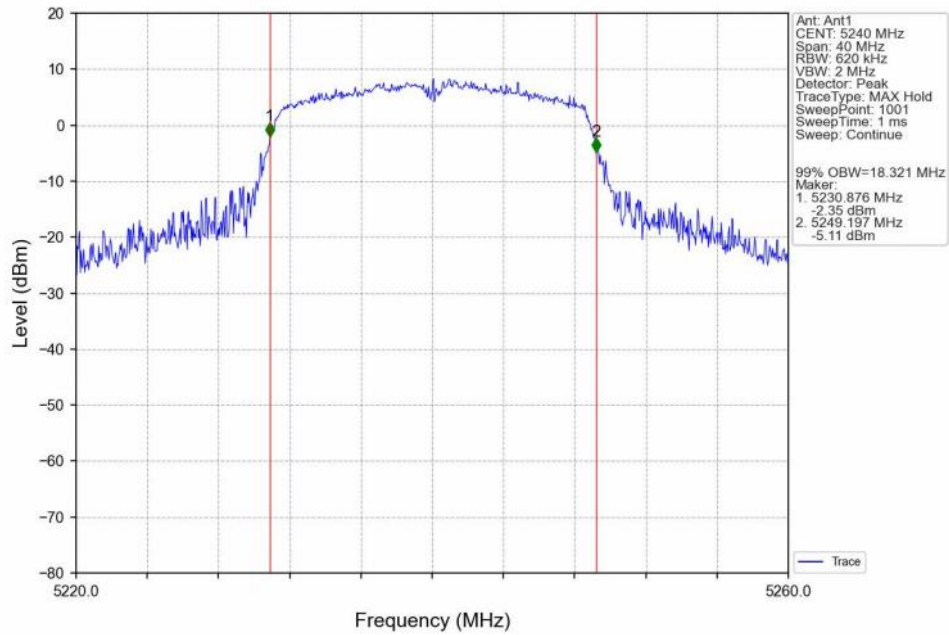
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



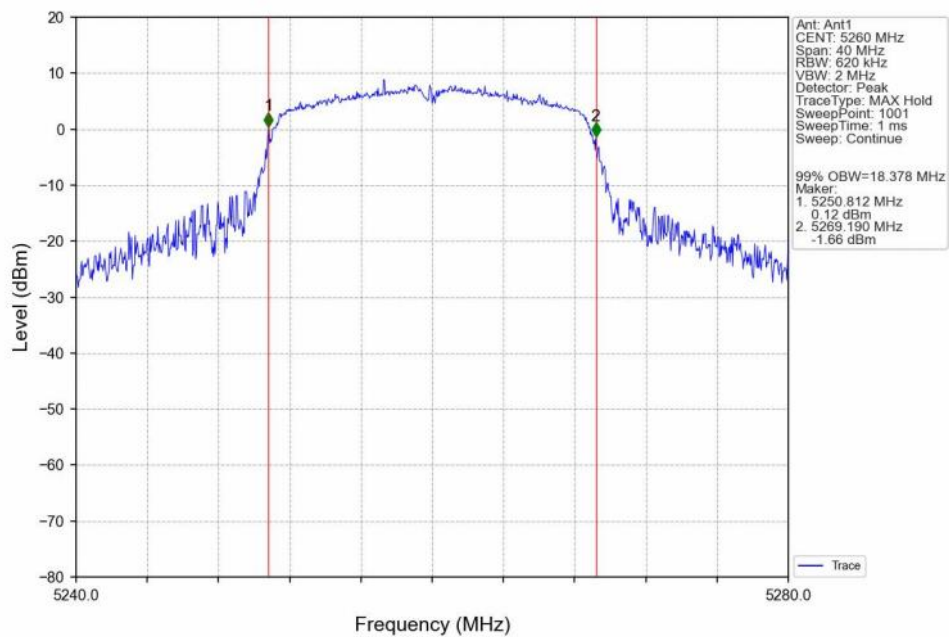
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



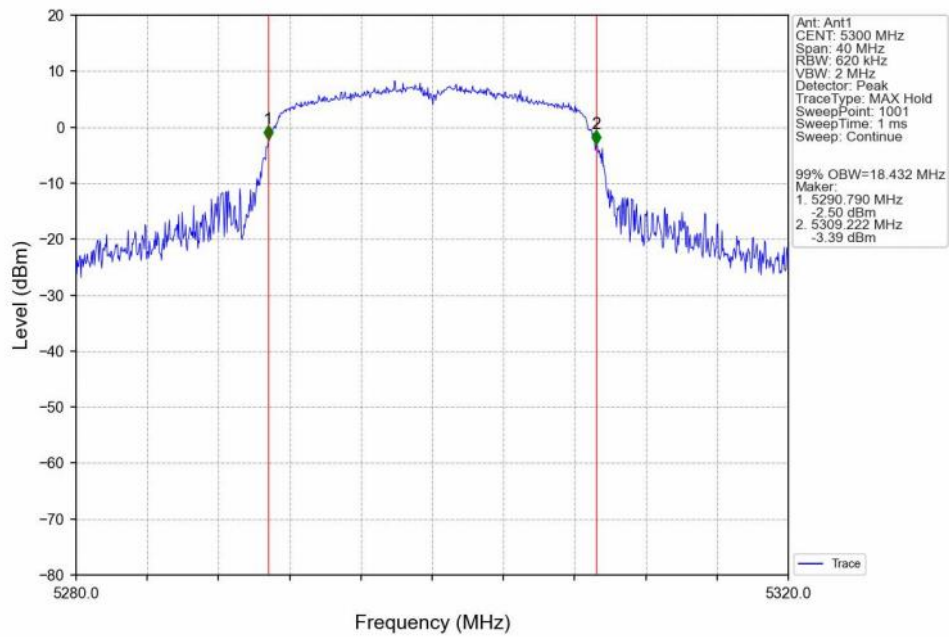
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



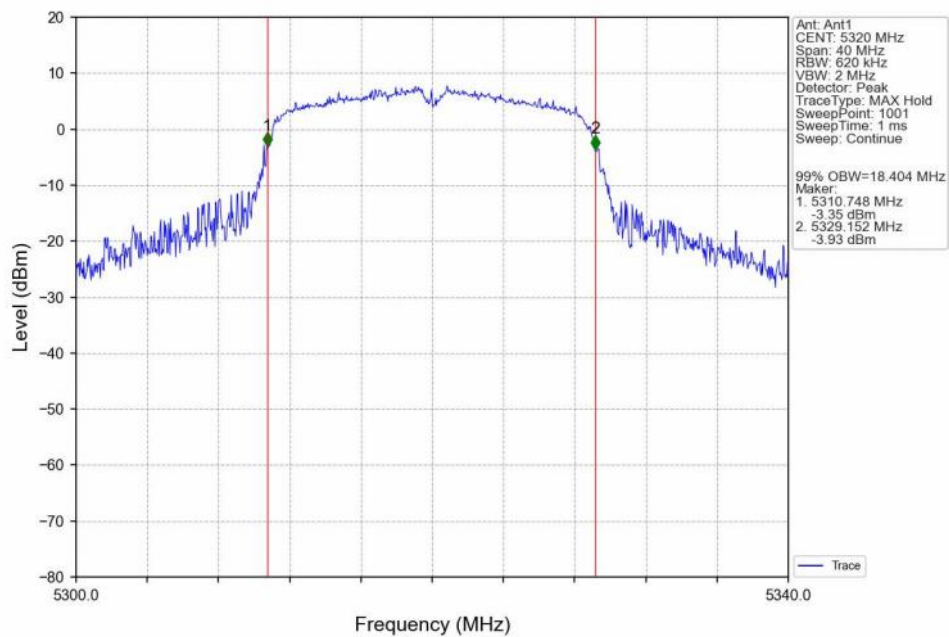
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



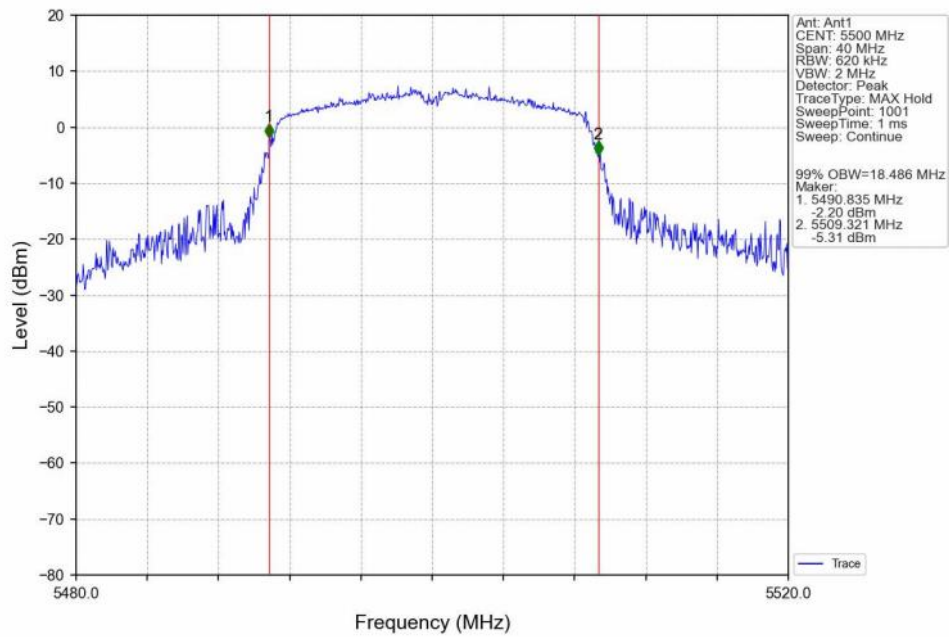
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



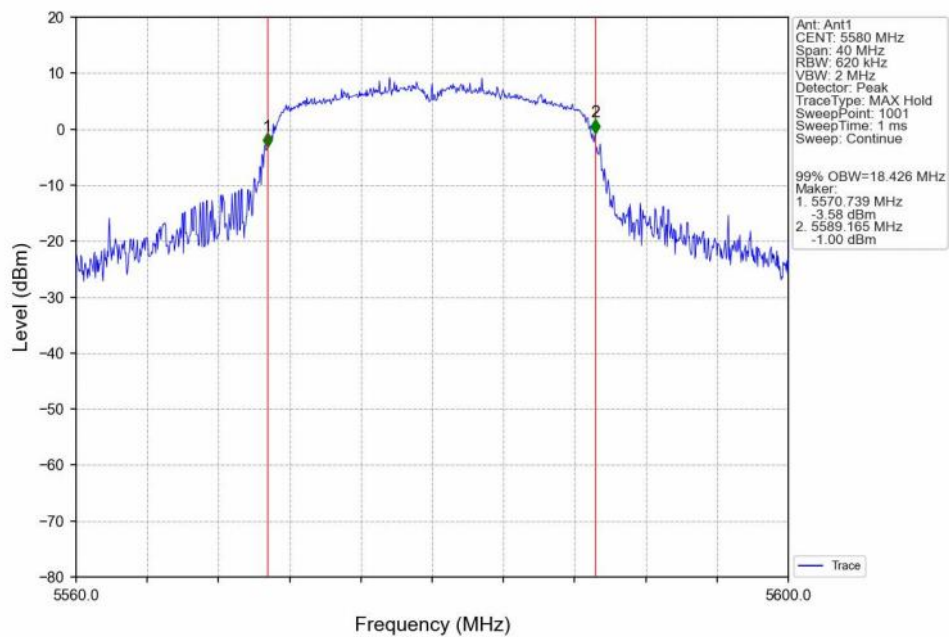
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



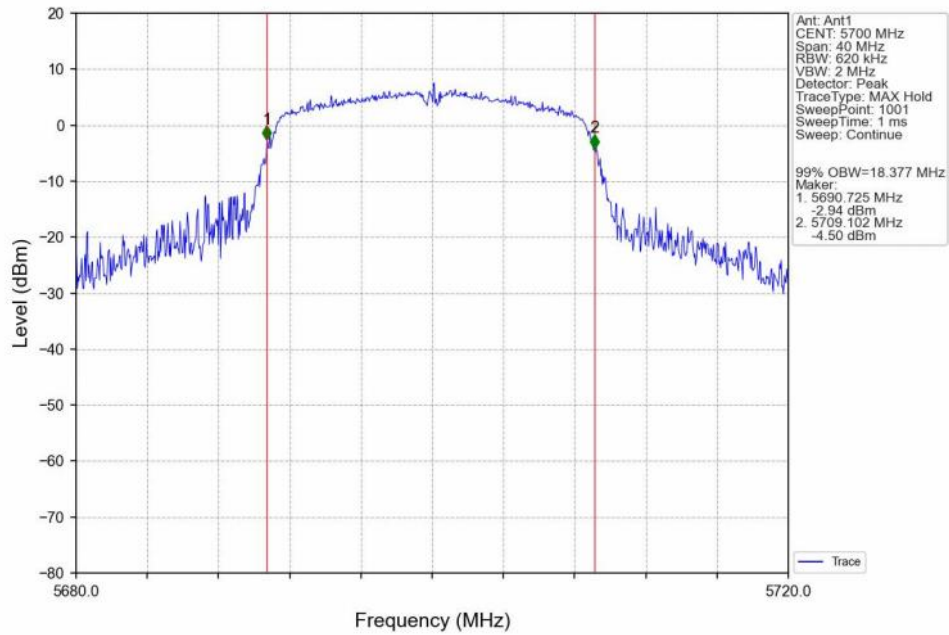
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



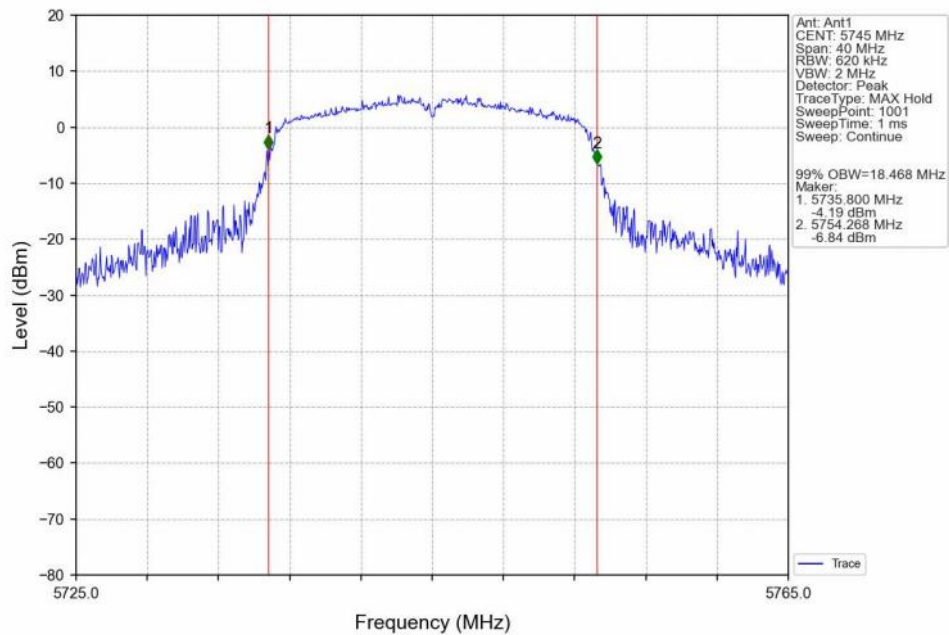
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



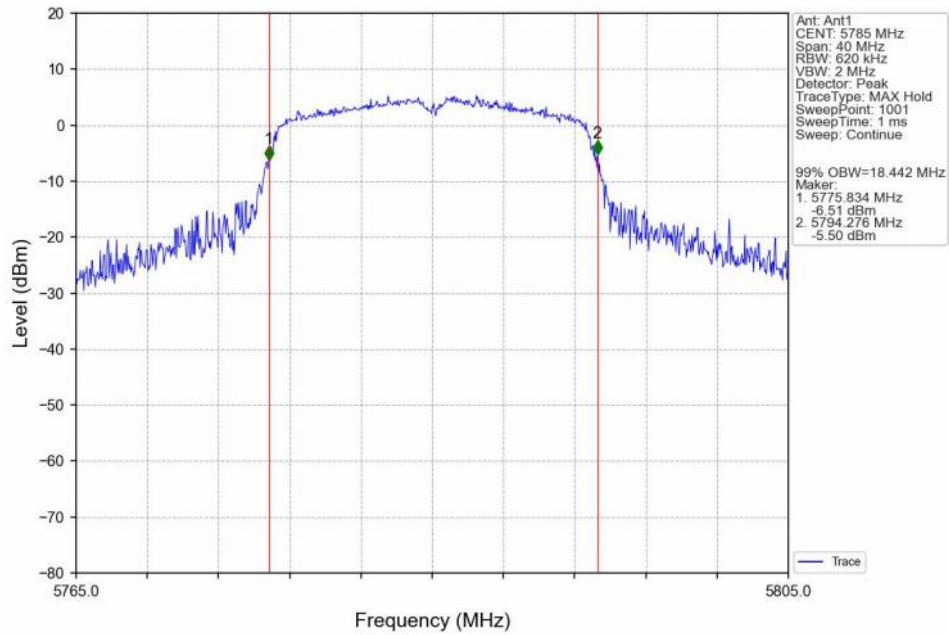
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



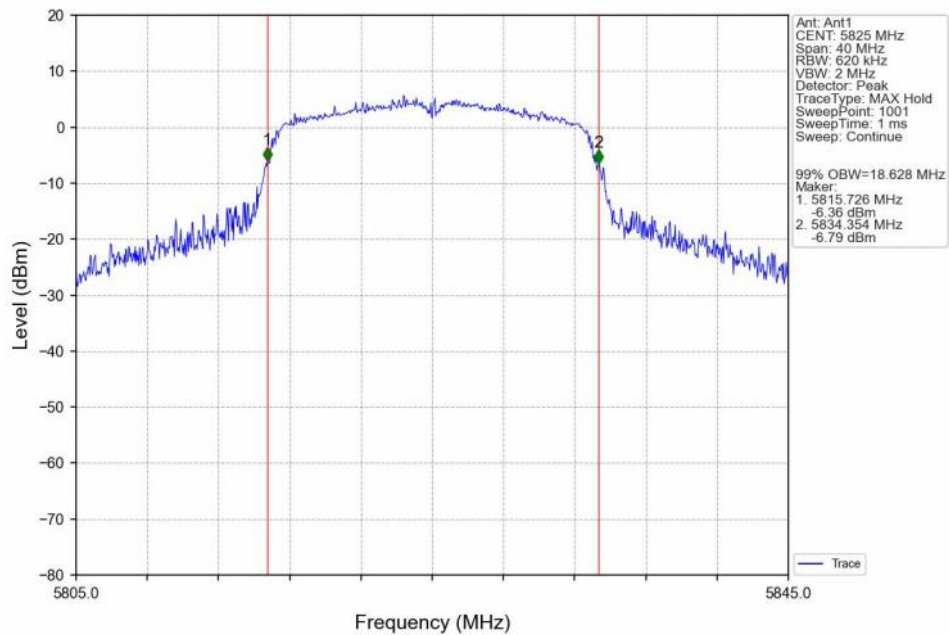
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



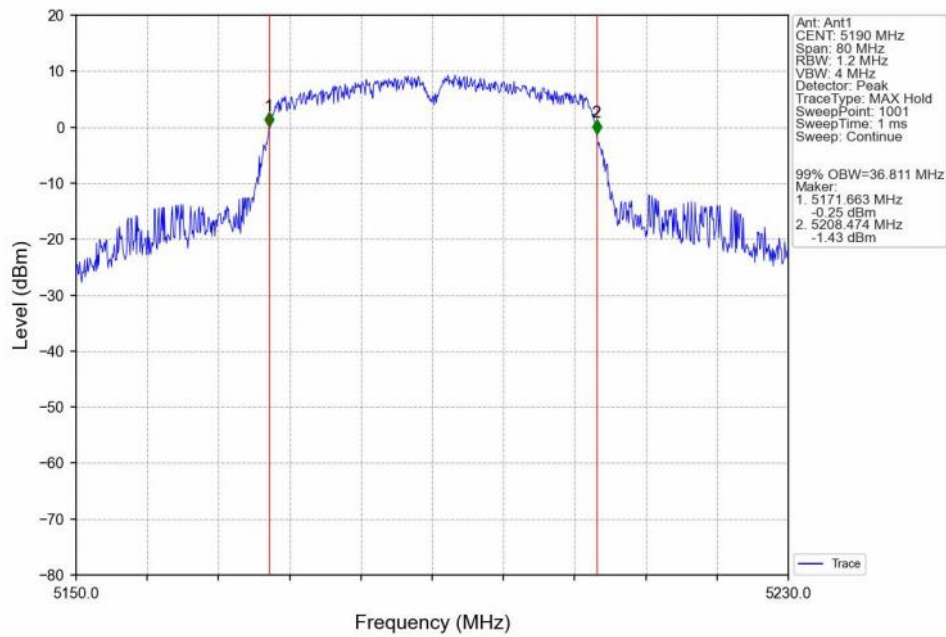
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



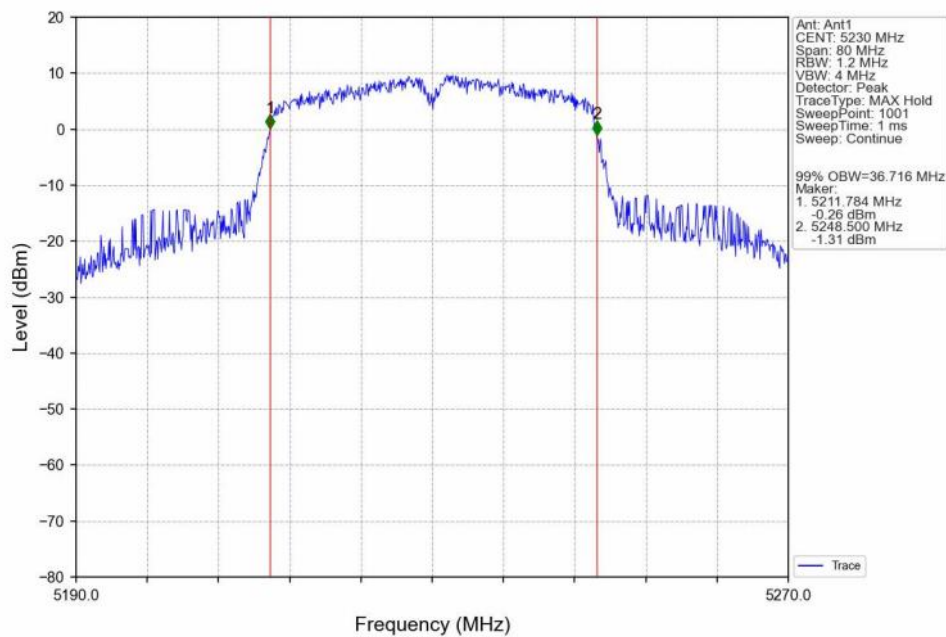
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



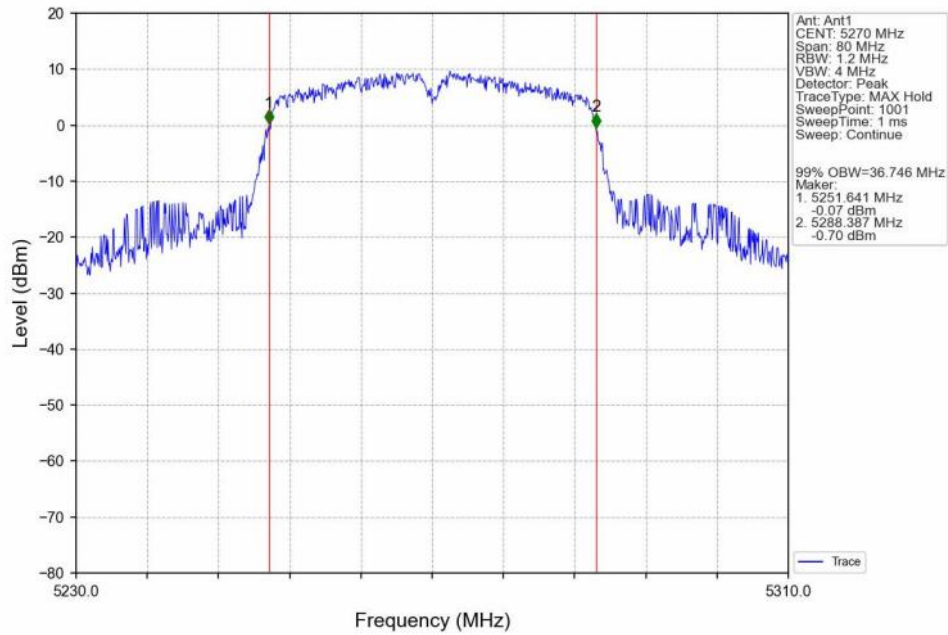
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



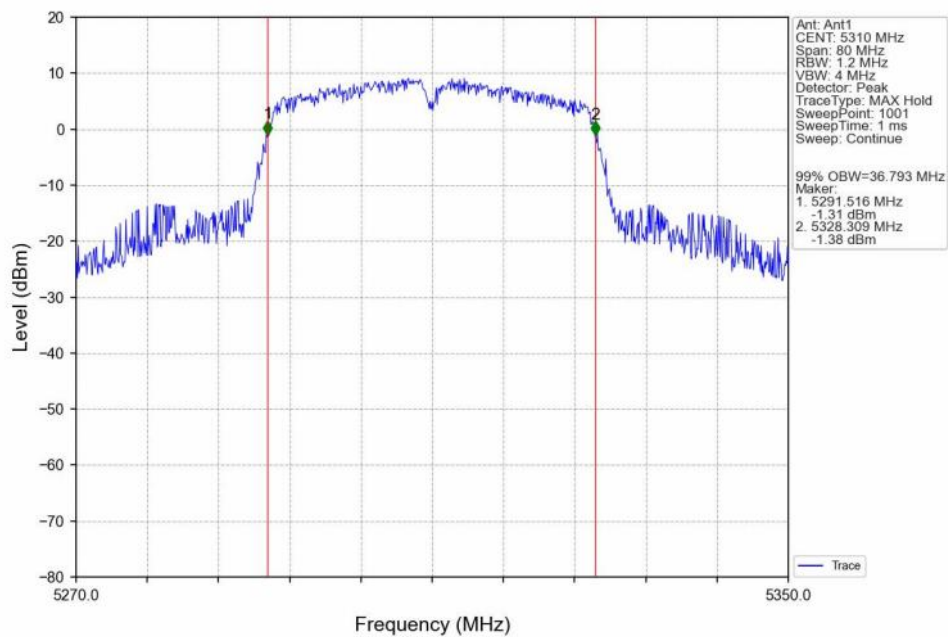
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



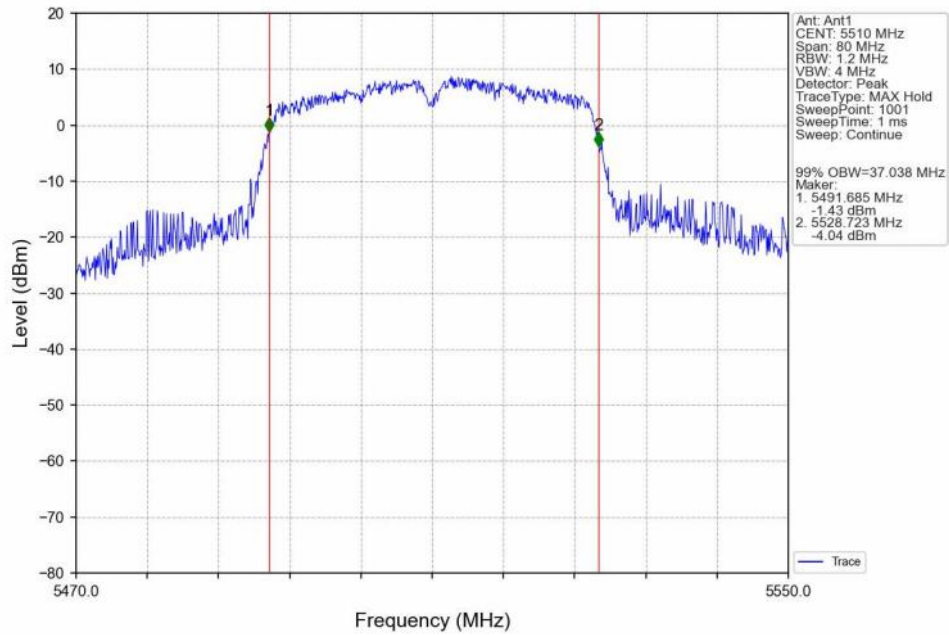
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



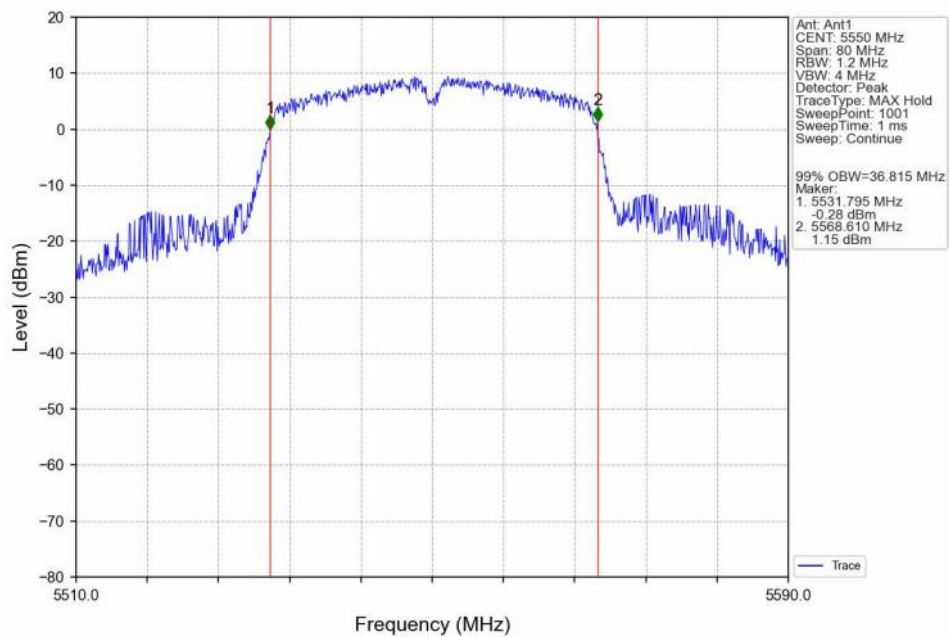
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



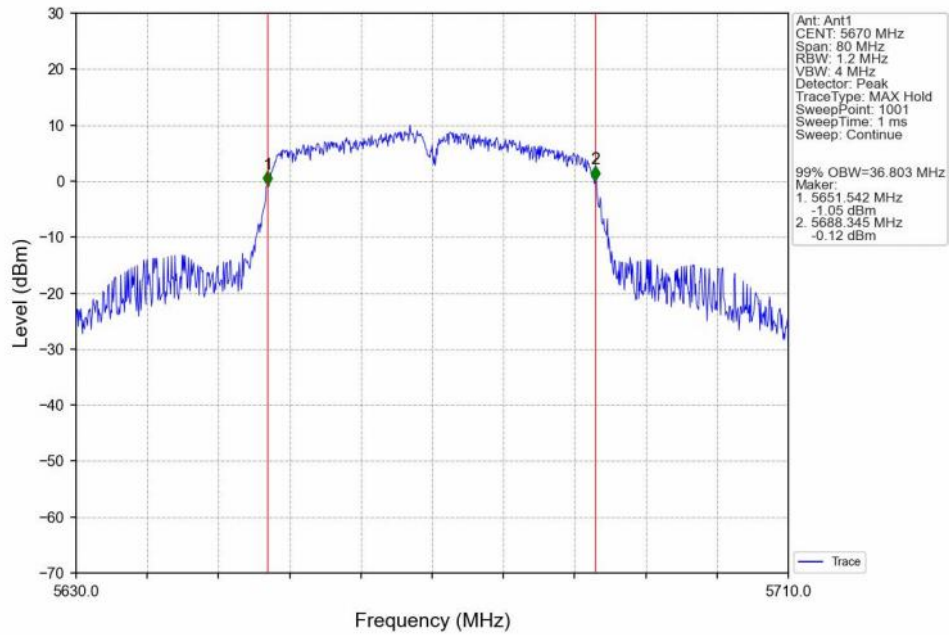
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



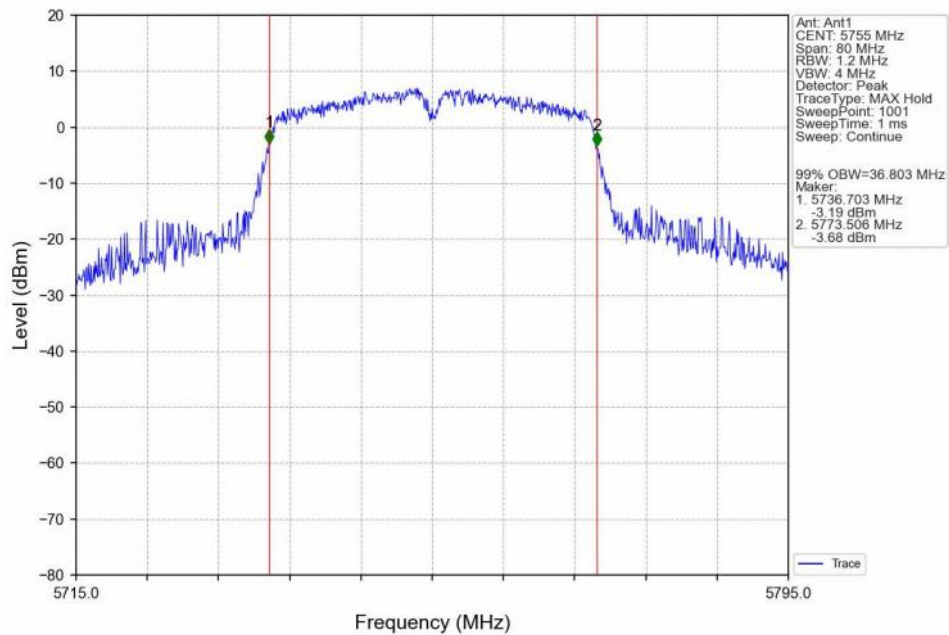
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



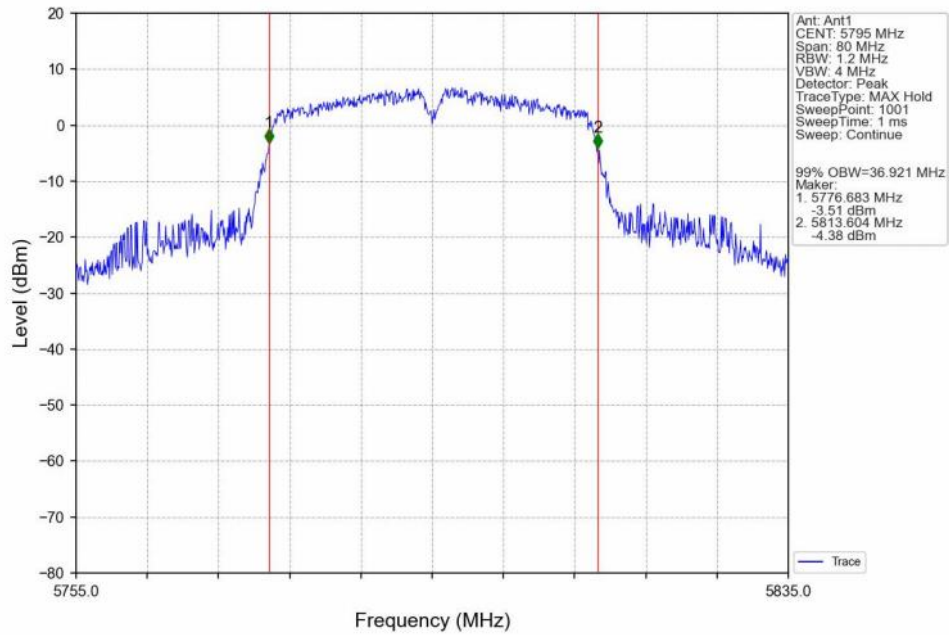
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



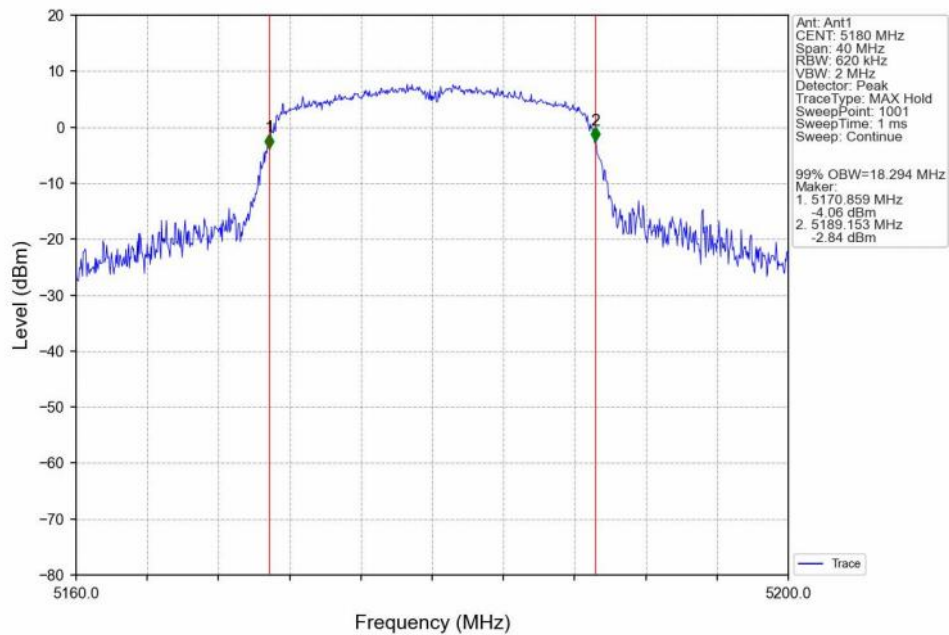
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



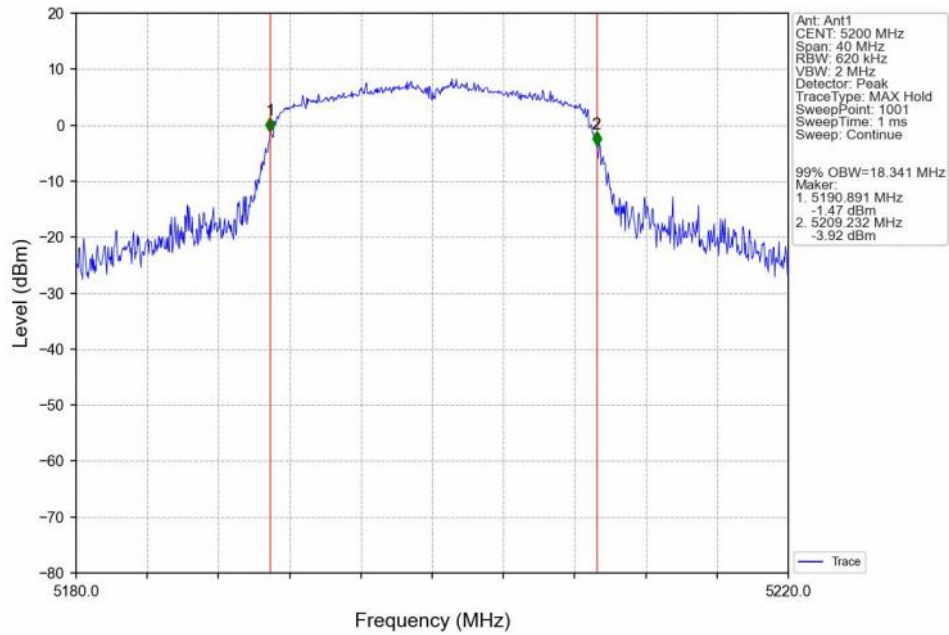
802.11n(HT40) HCH_5795MHz_Ant1_NTNV



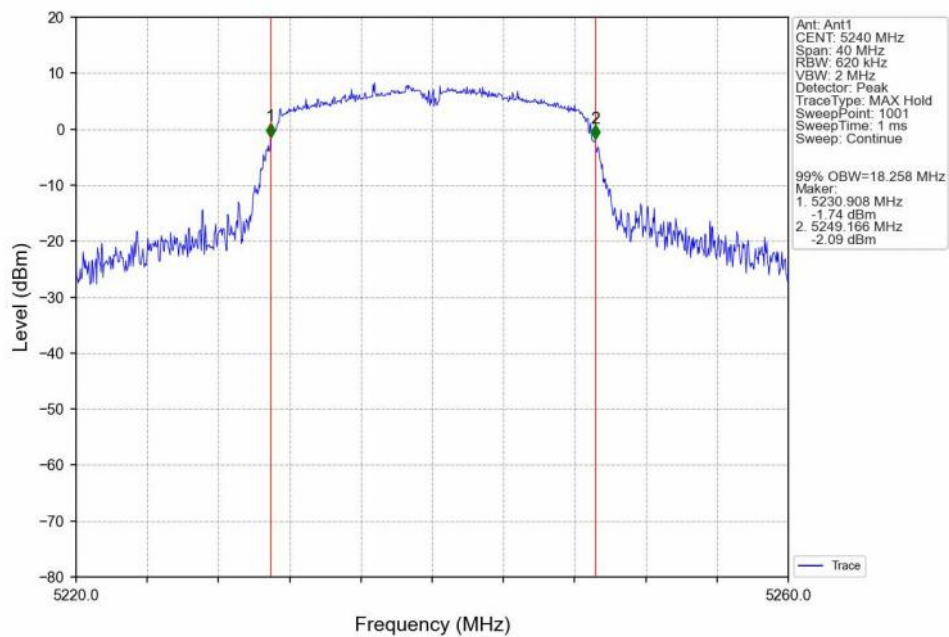
802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV



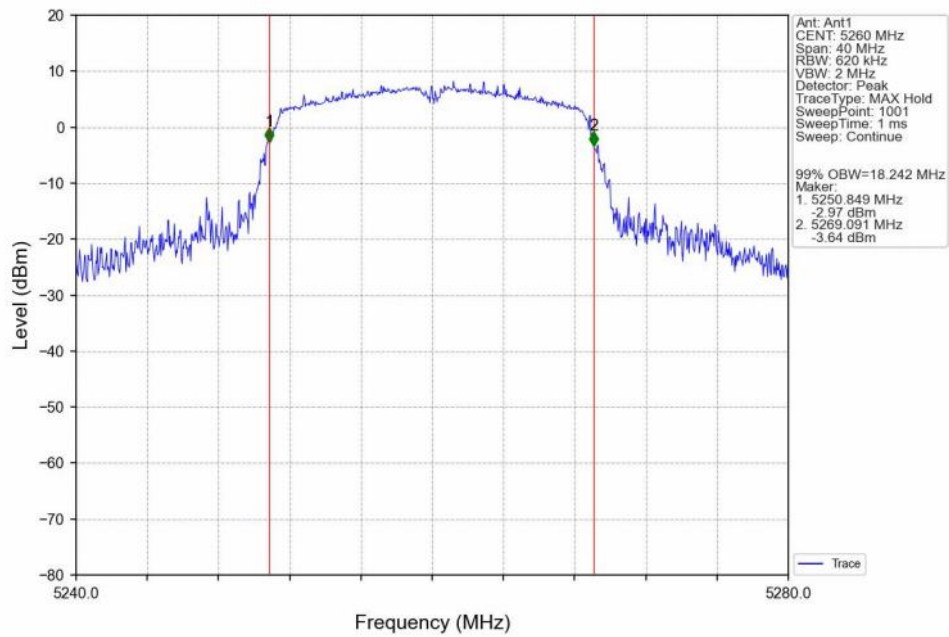
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



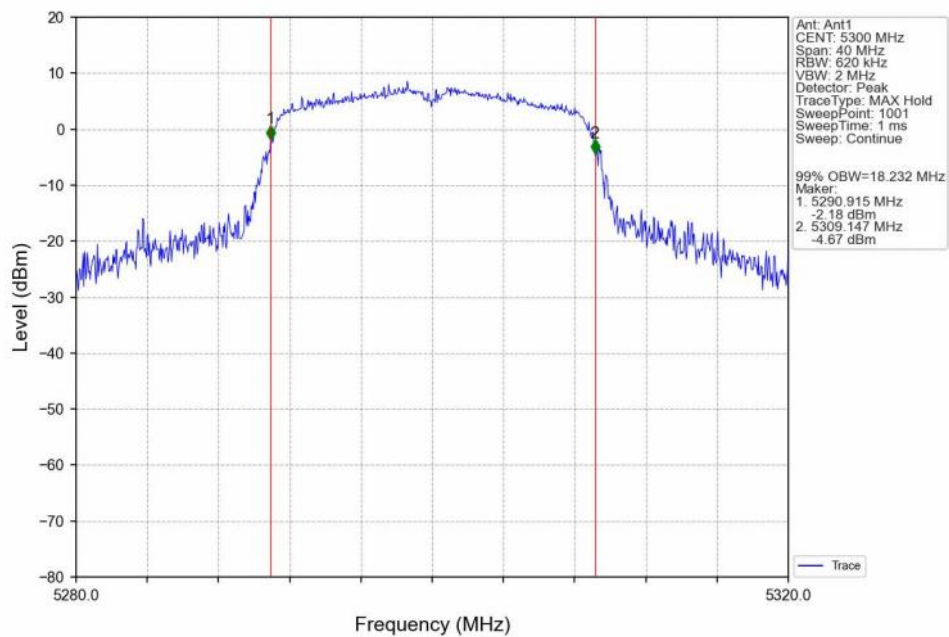
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



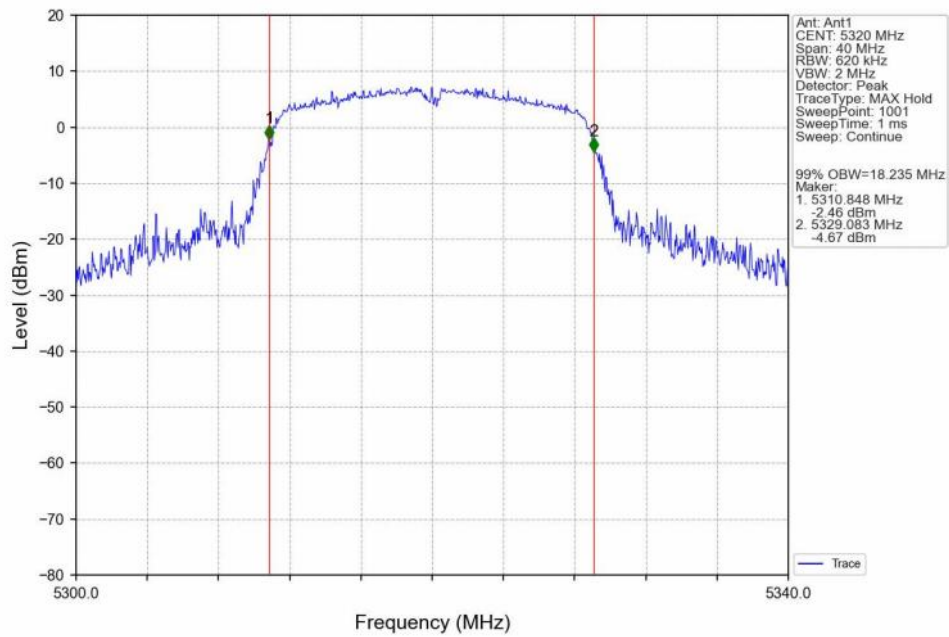
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



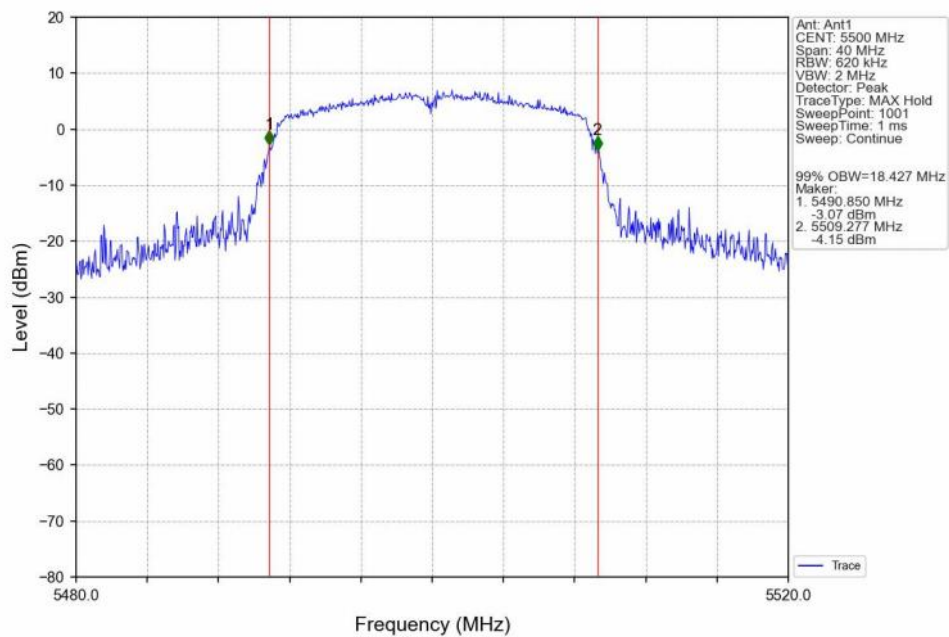
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



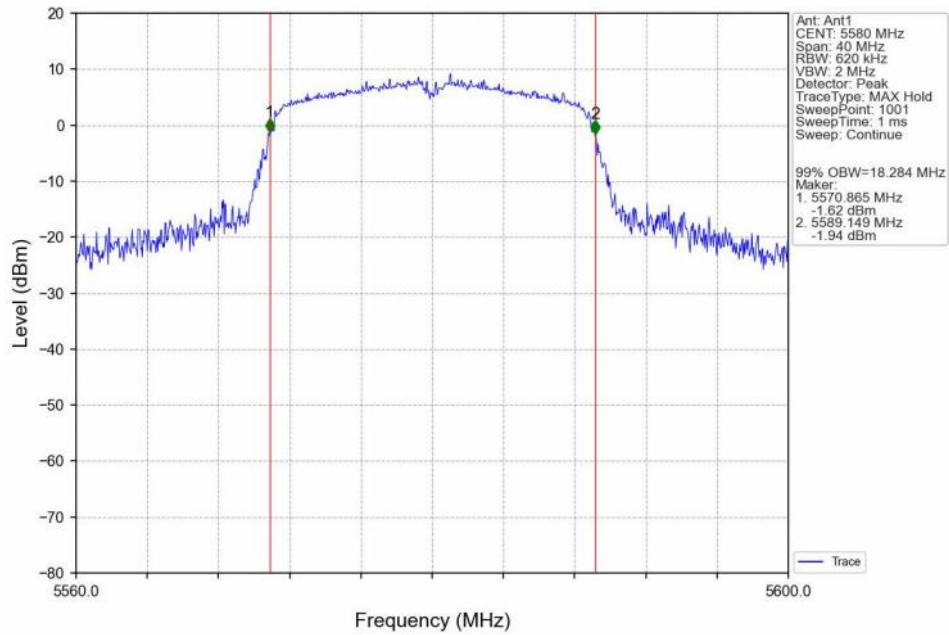
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



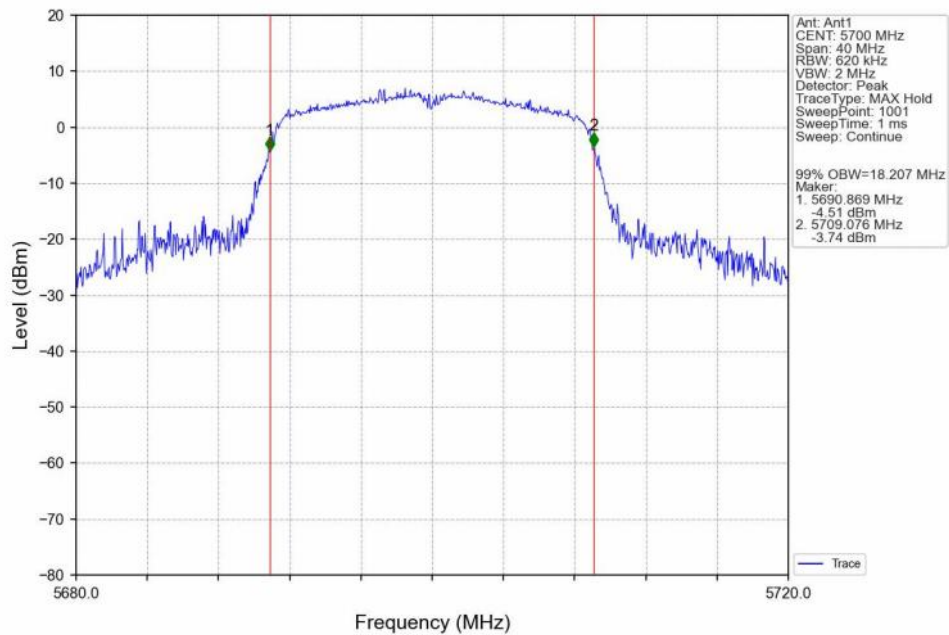
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



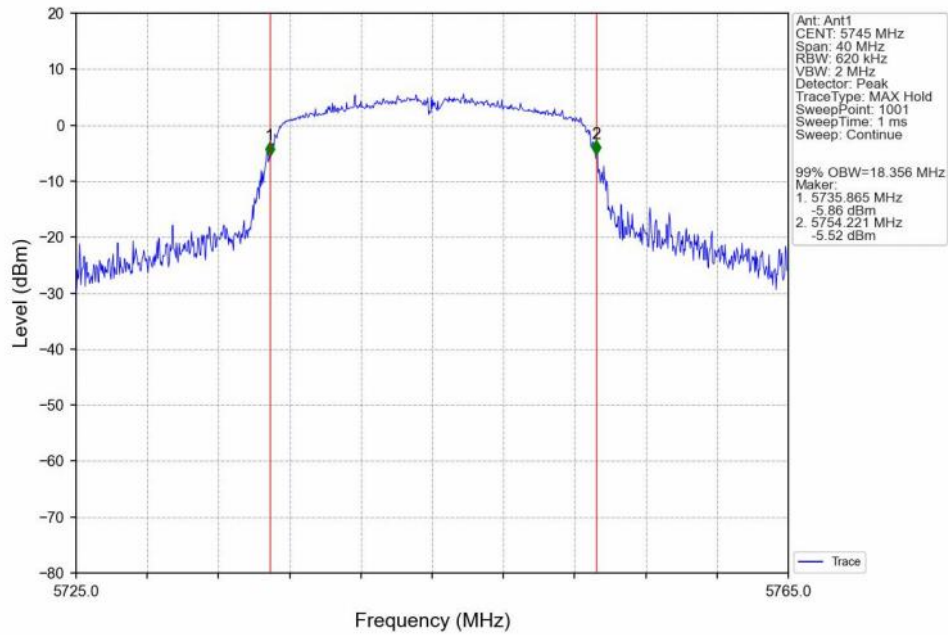
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

