

Appendix - 5G WIFI

1. Duty Cycle

1.1 Test Result

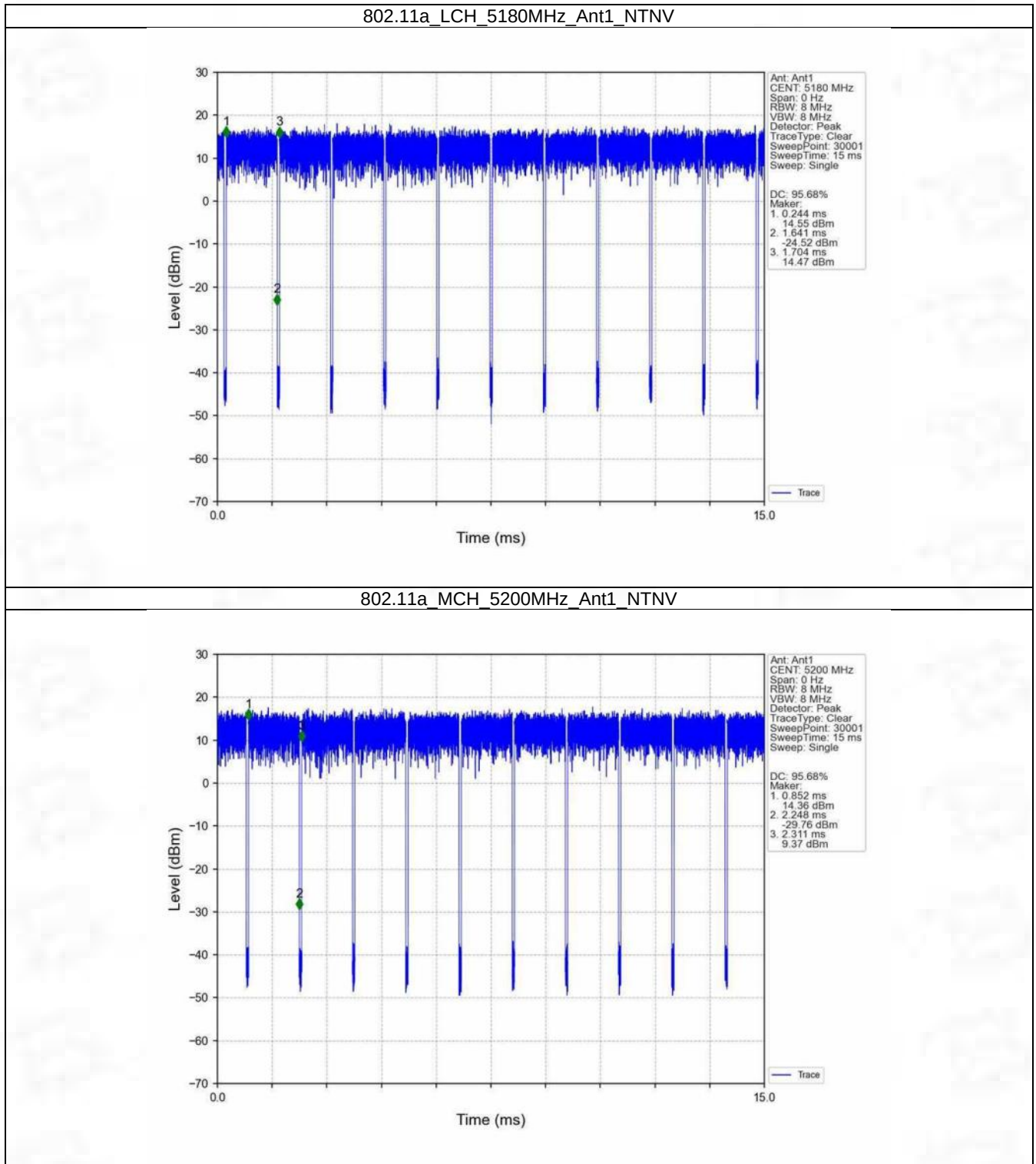
1.1.1 Ant1

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	1.397	1.460	95.68	0.19	0.00
		5200	1.397	1.460	95.68	0.19	0.03
		5240	1.397	1.459	95.75	0.19	0.03
		5260	1.397	1.459	95.75	0.19	0.00
		5300	1.396	1.459	95.68	0.19	0.07
		5320	1.397	1.460	95.68	0.19	0.07
		5500	1.396	1.459	95.68	0.19	0.03
		5580	1.397	1.459	95.75	0.19	0.03
		5700	1.396	1.459	95.68	0.19	0.00
		5745	1.397	1.460	95.68	0.19	0.03
		5785	1.396	1.459	95.68	0.19	0.03
		5825	1.396	1.458	95.75	0.19	0.03
802.11n (HT20)	SISO	5180	1.182	1.244	95.02	0.22	0.03
		5200	1.181	1.244	94.94	0.23	0.70
		5240	1.182	1.244	95.02	0.22	0.03
		5260	1.181	1.244	94.94	0.23	0.04
		5300	1.181	1.244	94.94	0.23	0.00
		5320	1.182	1.244	95.02	0.22	0.03
		5500	1.181	1.244	94.94	0.23	0.03
		5580	1.182	1.245	94.94	0.23	0.03
		5700	1.181	1.244	94.94	0.23	0.03
		5745	1.182	1.244	95.02	0.22	0.03
		5785	1.182	1.244	95.02	0.22	0.03
		5825	1.181	1.244	94.94	0.23	0.73
802.11n (HT40)	SISO	5190	0.587	0.649	90.45	0.44	0.04
		5230	0.587	0.649	90.45	0.44	0.07
		5270	0.587	0.649	90.45	0.44	0.04
		5310	0.587	0.649	90.45	0.44	0.04
		5510	0.587	0.649	90.45	0.44	0.07
		5550	0.588	0.649	90.60	0.43	0.04
		5670	0.588	0.649	90.60	0.43	0.04
		5755	0.588	0.649	90.60	0.43	0.04
		5795	0.587	0.649	90.45	0.44	0.04
		5825	0.587	0.649	90.45	0.44	0.04
802.11ac (VHT20)	SISO	5180	1.189	1.251	95.04	0.22	0.00
		5200	1.189	1.251	95.04	0.22	0.03
		5240	1.189	1.251	95.04	0.22	0.03
		5260	1.189	1.251	95.04	0.22	0.03
		5300	1.189	1.251	95.04	0.22	0.03
		5320	1.189	1.251	95.04	0.22	0.03
		5500	1.188	1.251	94.96	0.22	0.03
		5580	1.189	1.251	95.04	0.22	0.00
		5700	1.188	1.251	94.96	0.22	0.07
		5745	1.189	1.251	95.04	0.22	0.03
		5785	1.188	1.251	94.96	0.22	0.03
		5825	1.189	1.251	95.04	0.22	0.00
802.11ac (VHT40)	SISO	5190	0.594	0.656	90.55	0.43	0.04
		5230	0.595	0.657	90.56	0.43	1.31

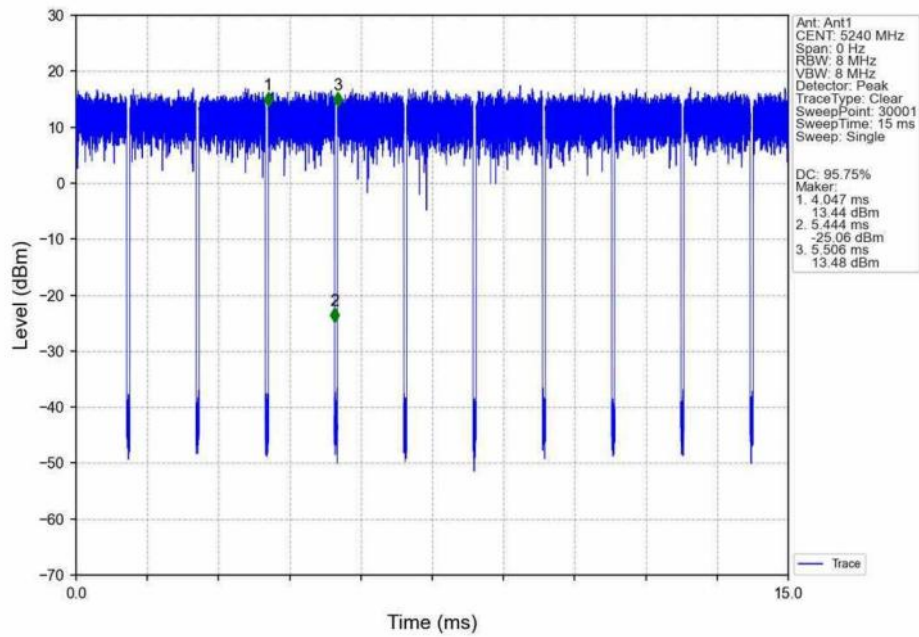
		5270	0.595	0.658	90.43	0.44	0.07
		5310	0.594	0.656	90.55	0.43	0.01
		5510	0.595	0.658	90.43	0.44	0.07
		5550	0.595	0.657	90.56	0.43	0.07
		5670	0.595	0.657	90.56	0.43	1.27
		5755	0.595	0.657	90.56	0.43	0.04
		5795	0.595	0.657	90.56	0.43	1.24
		5210	0.297	0.358	82.96	0.81	0.04
802.11ac (VHT80)	SISO	5290	0.296	0.358	82.68	0.83	0.04
		5530	0.296	0.358	82.68	0.83	0.04
		5610	0.296	0.358	82.68	0.83	0.04
		5775	0.296	0.358	82.68	0.83	0.04

1.2 Test Graph

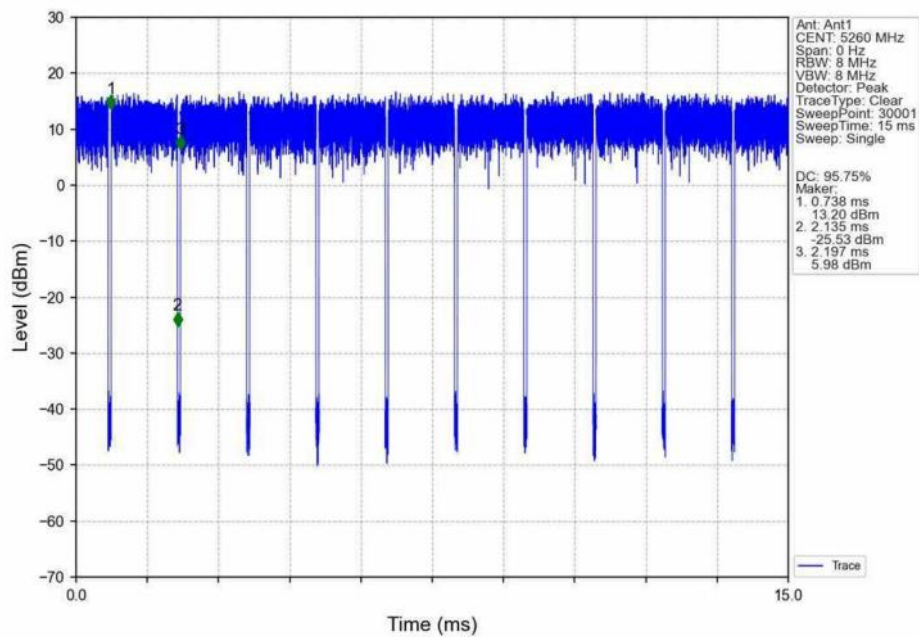
1.2.1 Ant1



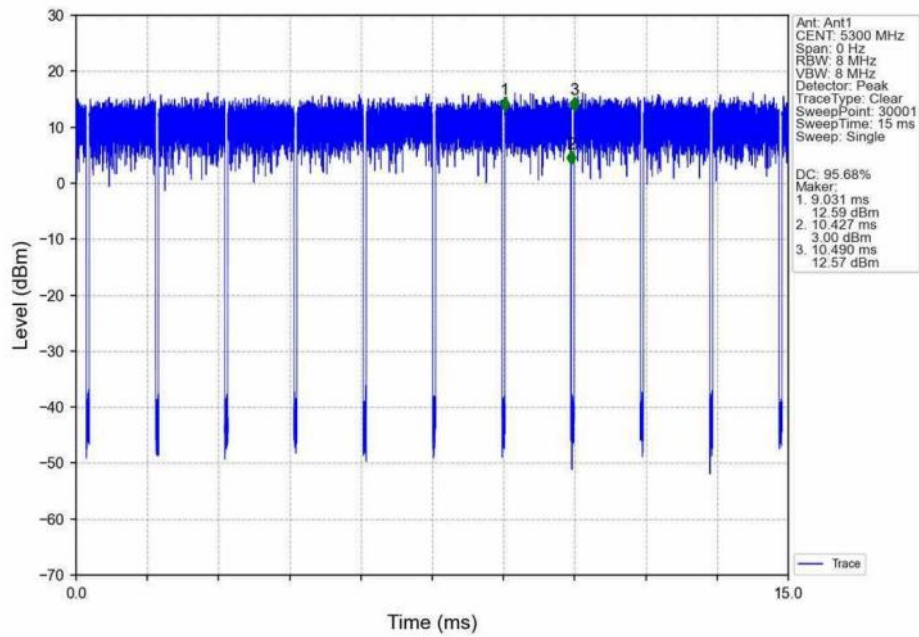
802.11a_HCH_5240MHz_Ant1_NTNV



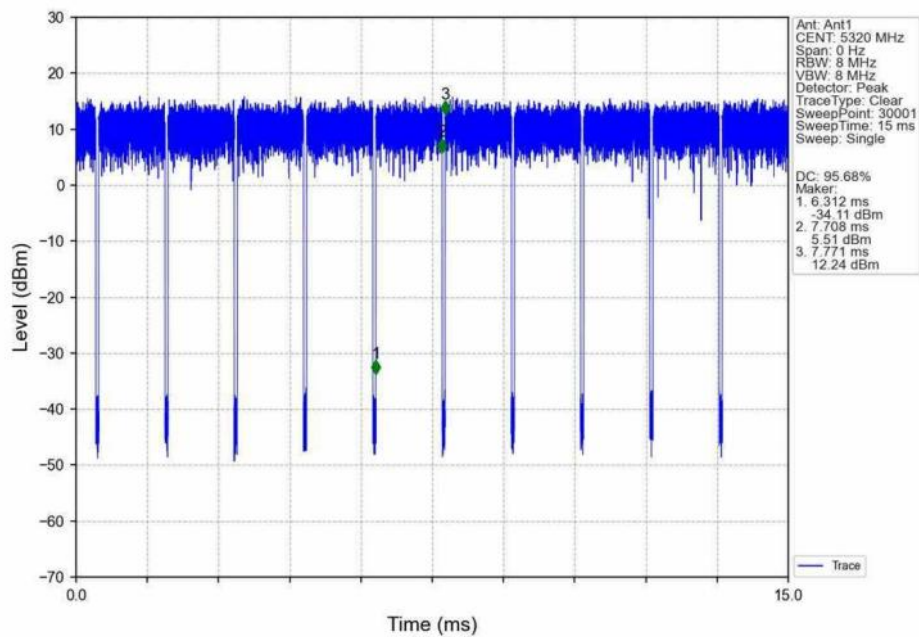
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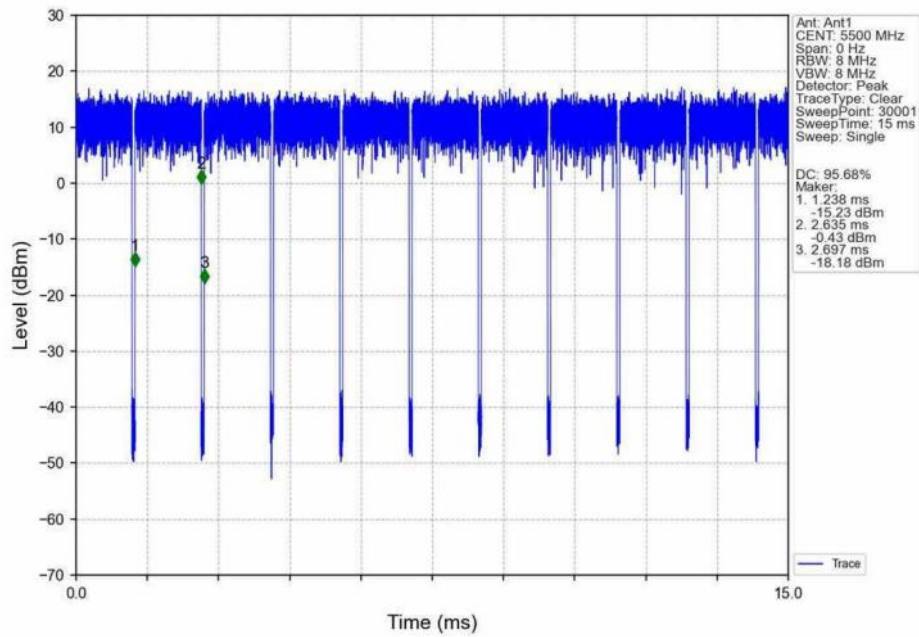
802.11a_MCH_5300MHz_Ant1_NTNV



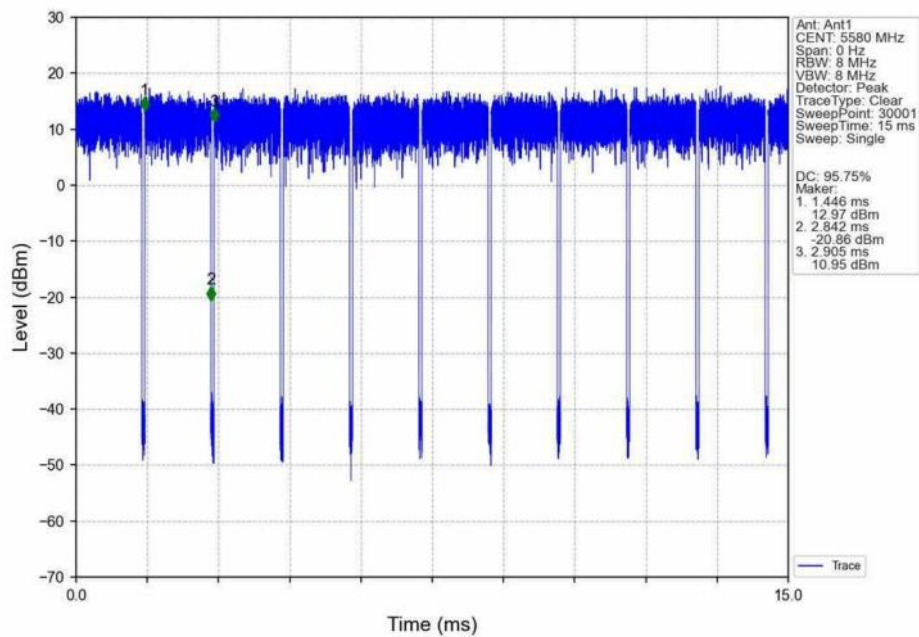
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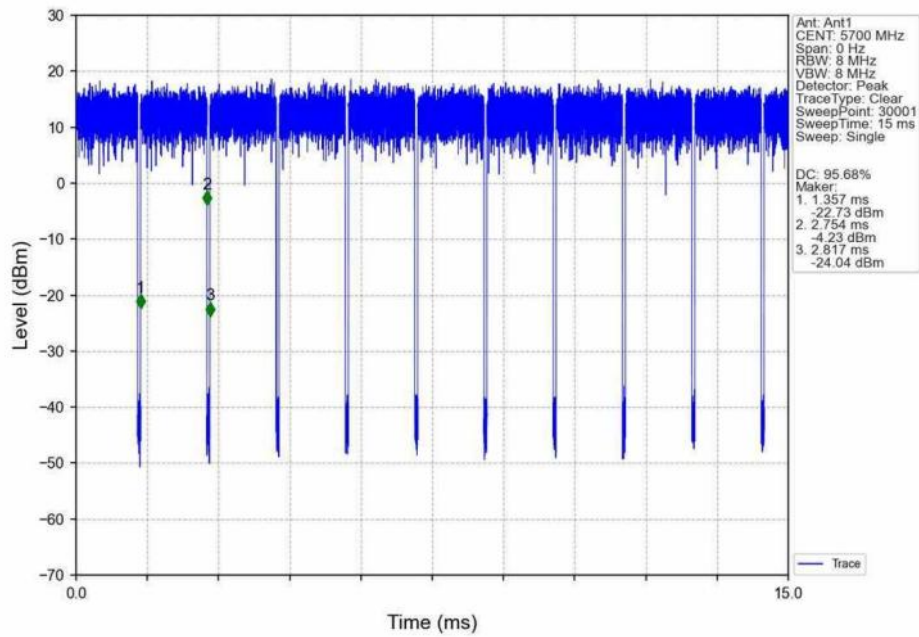
802.11a_LCH_5500MHz_Ant1_NTNV



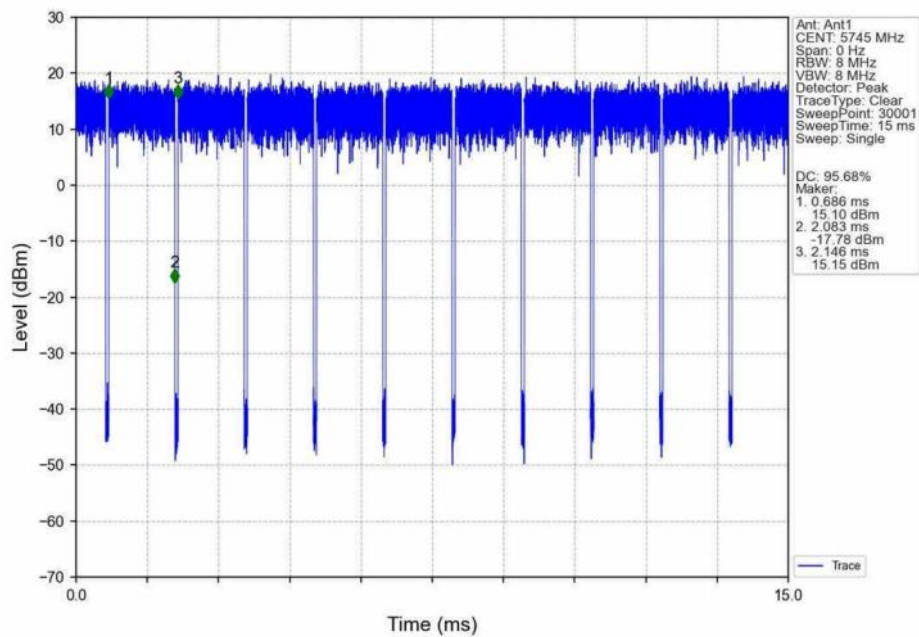
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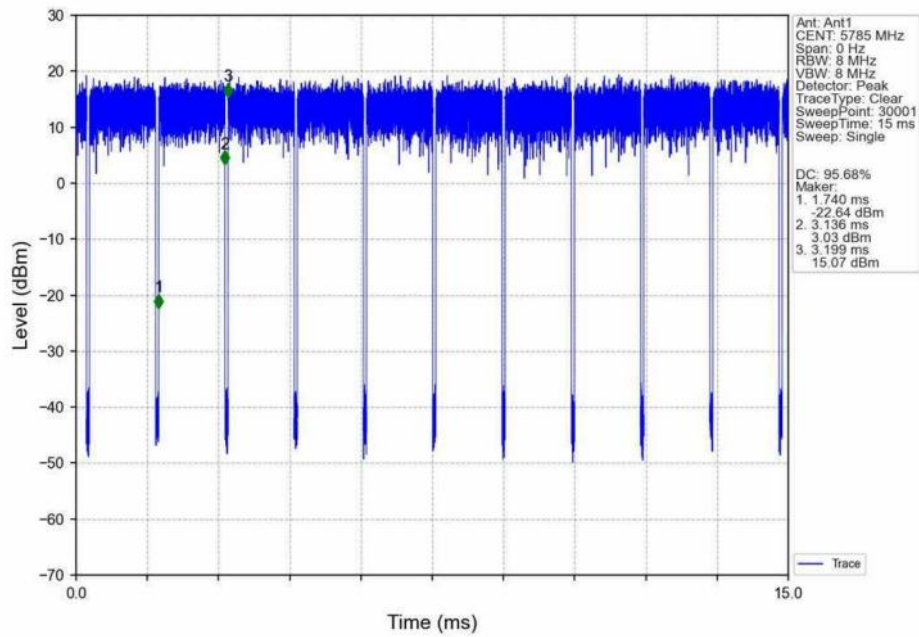
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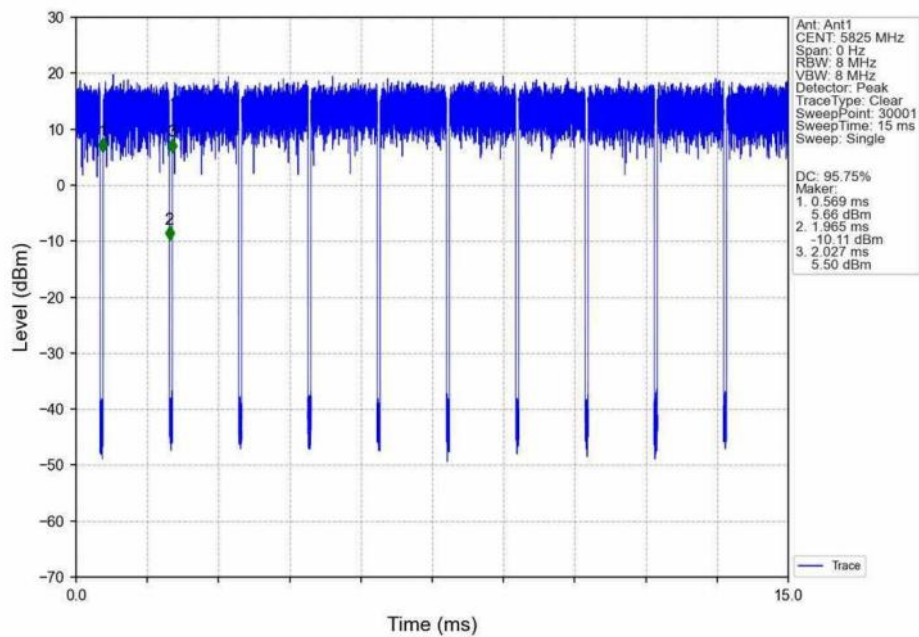
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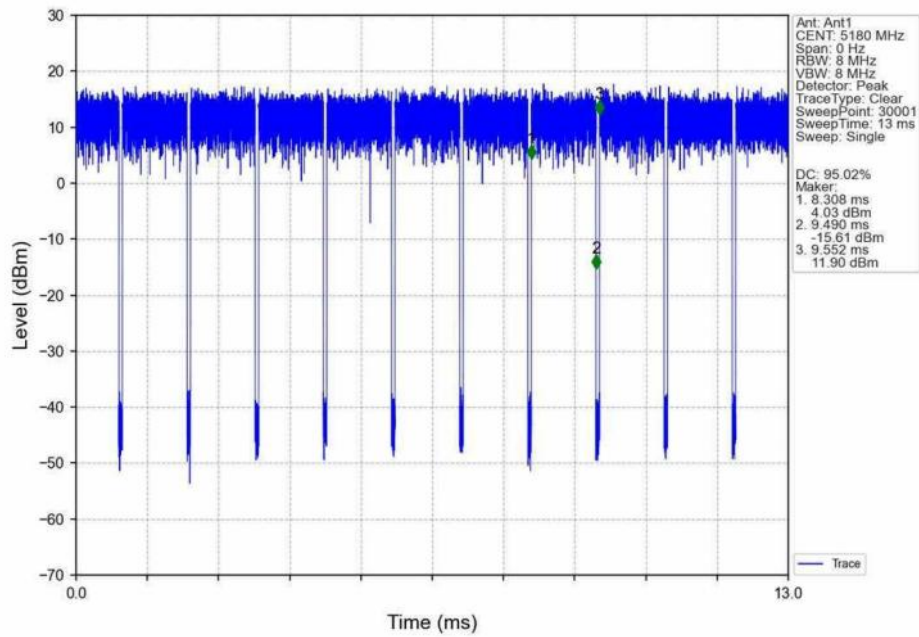
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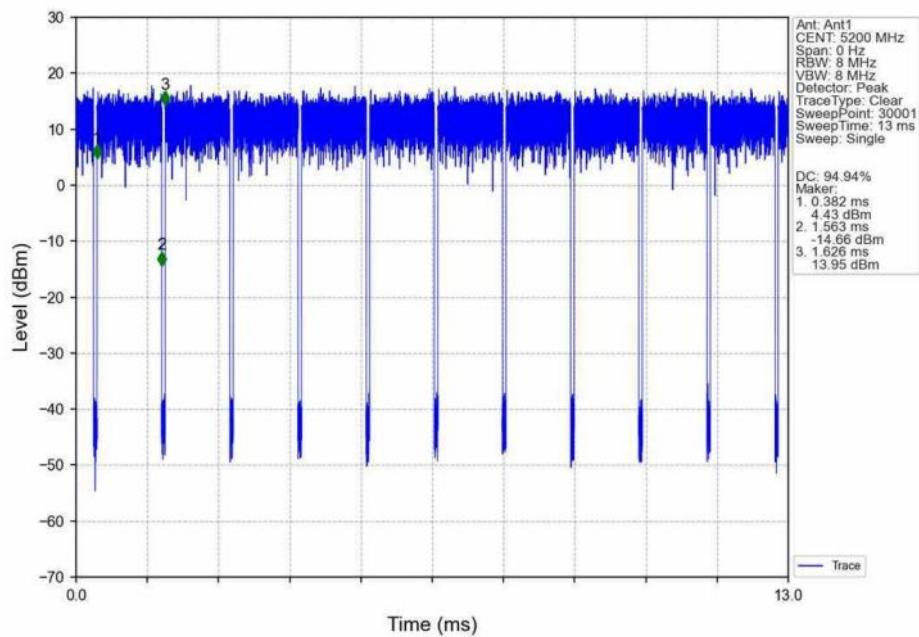
802.11a_HCH_5825MHz_Ant1_NTNV



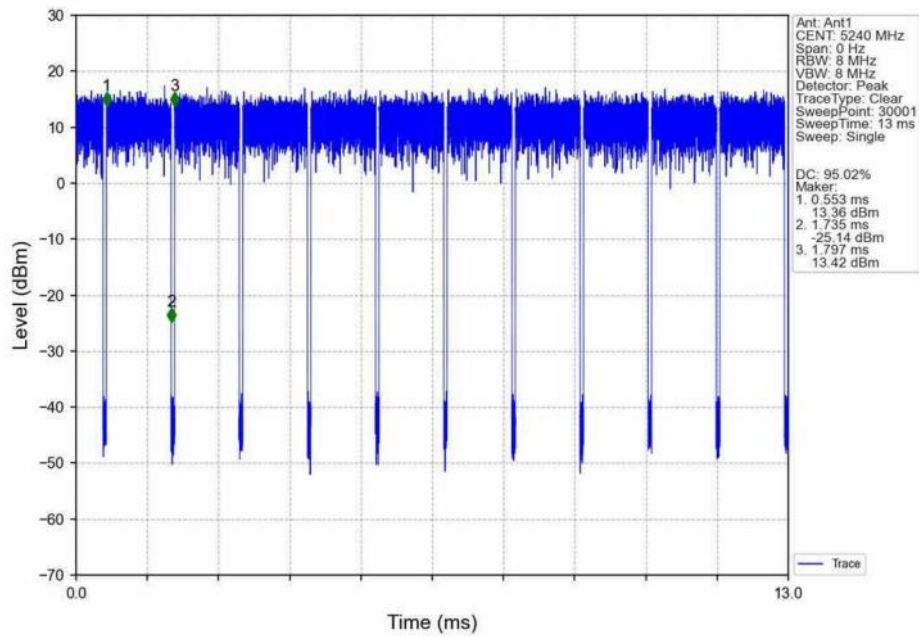
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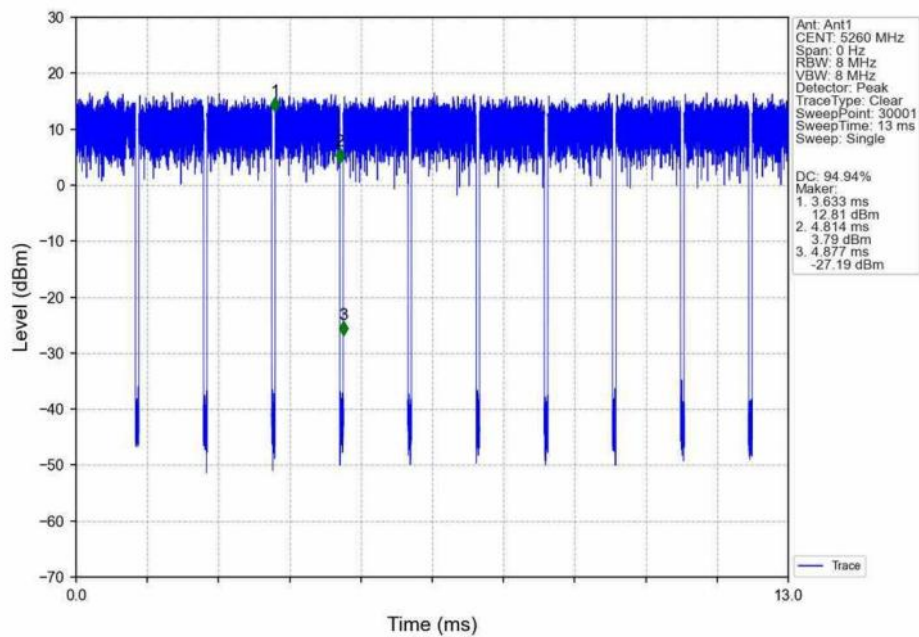
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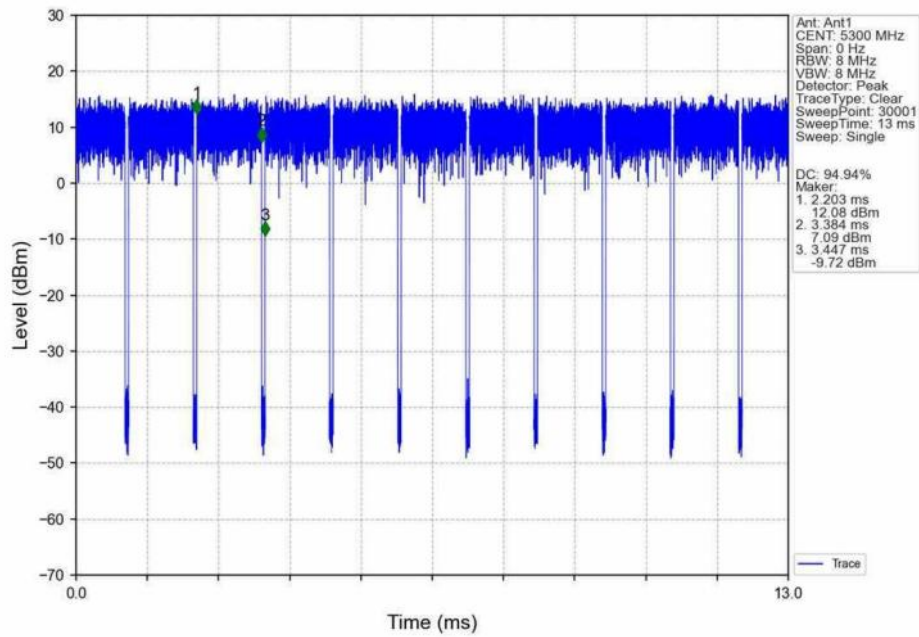
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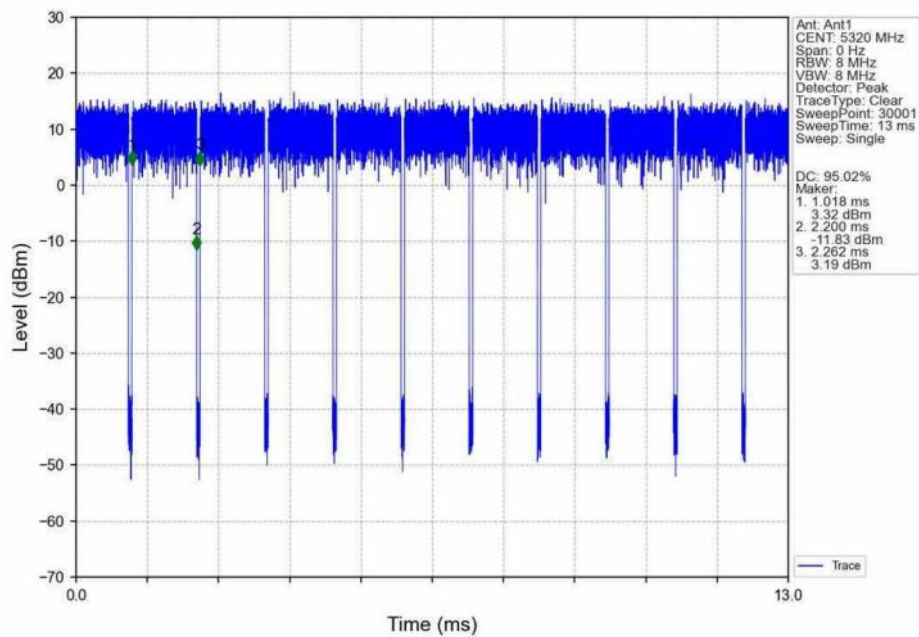
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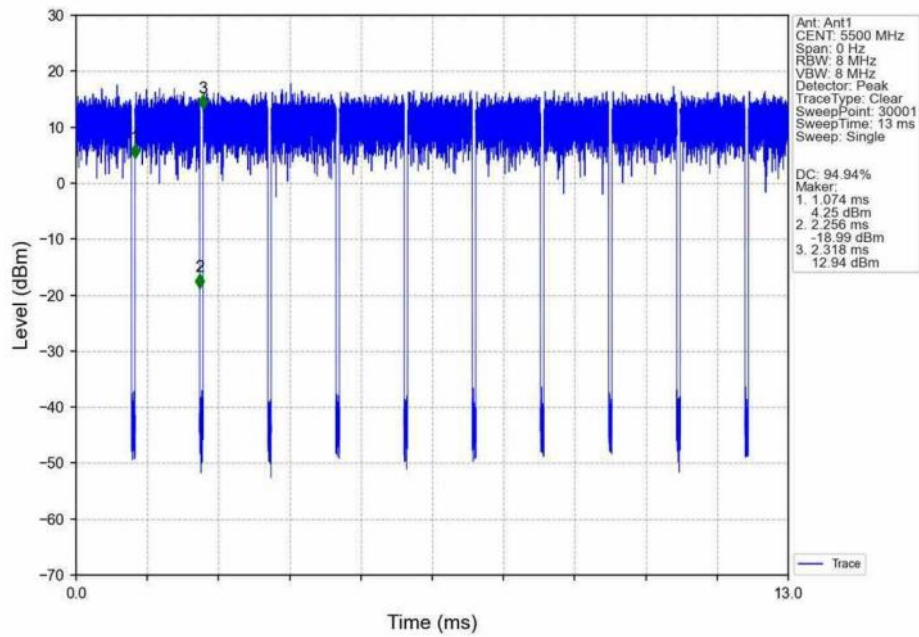
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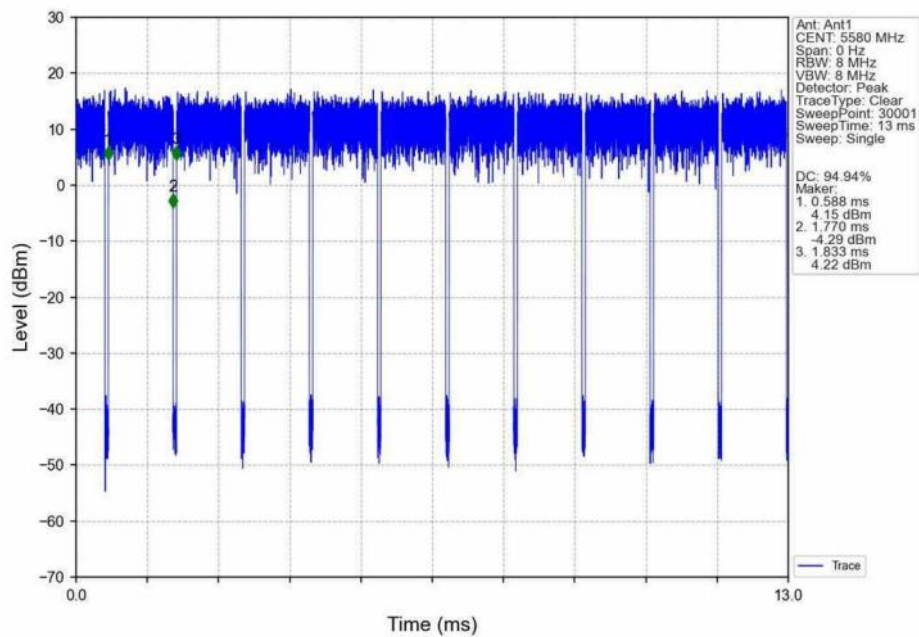
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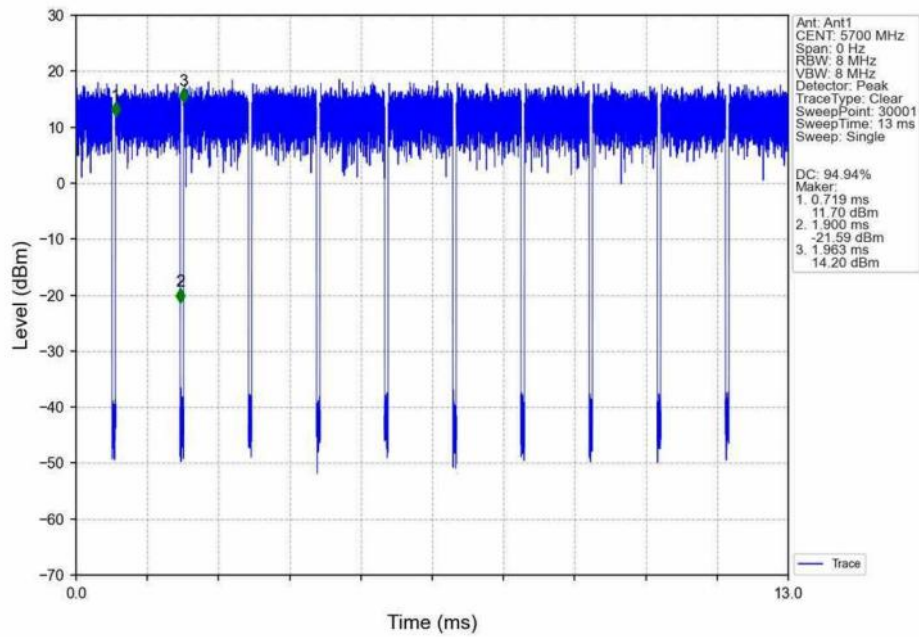
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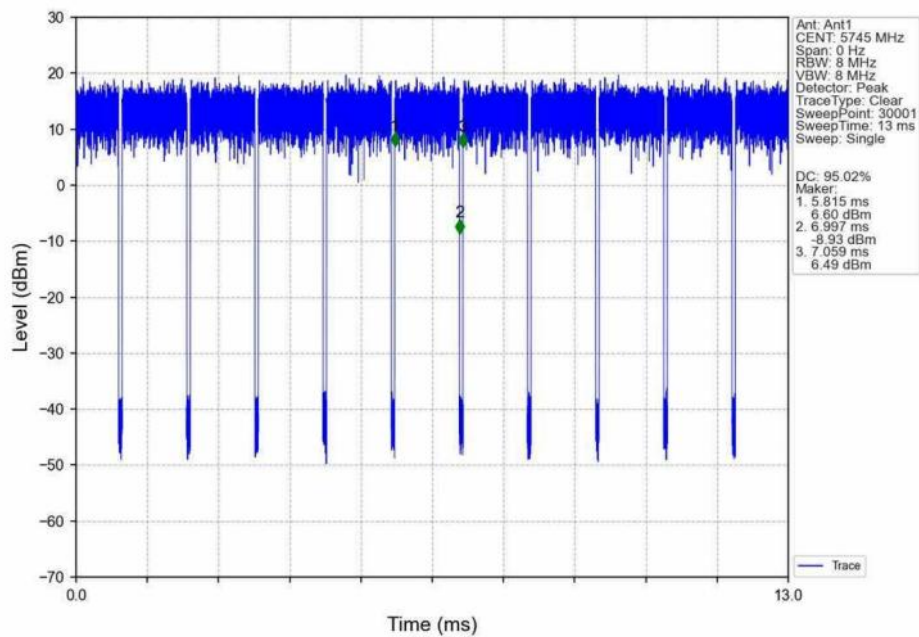
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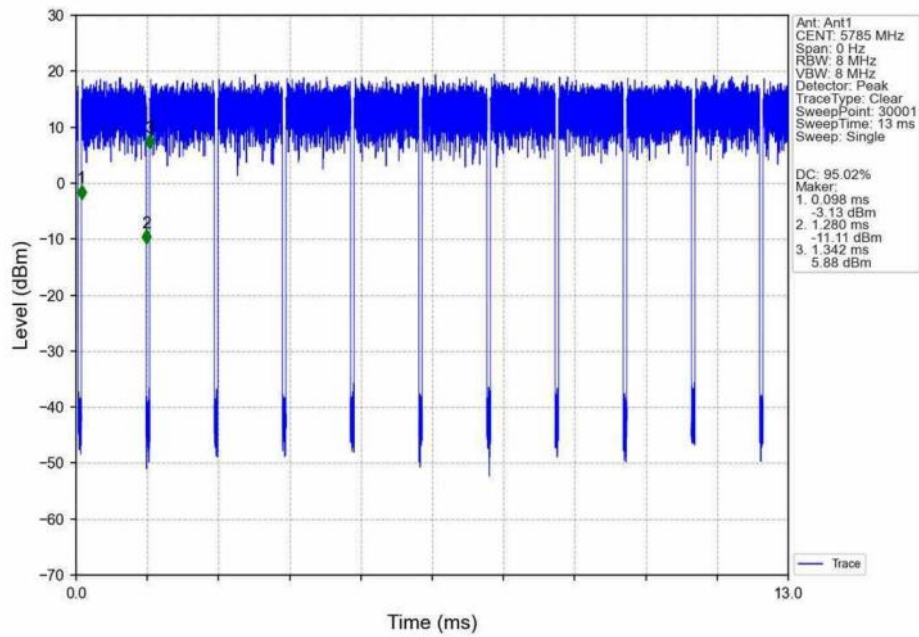
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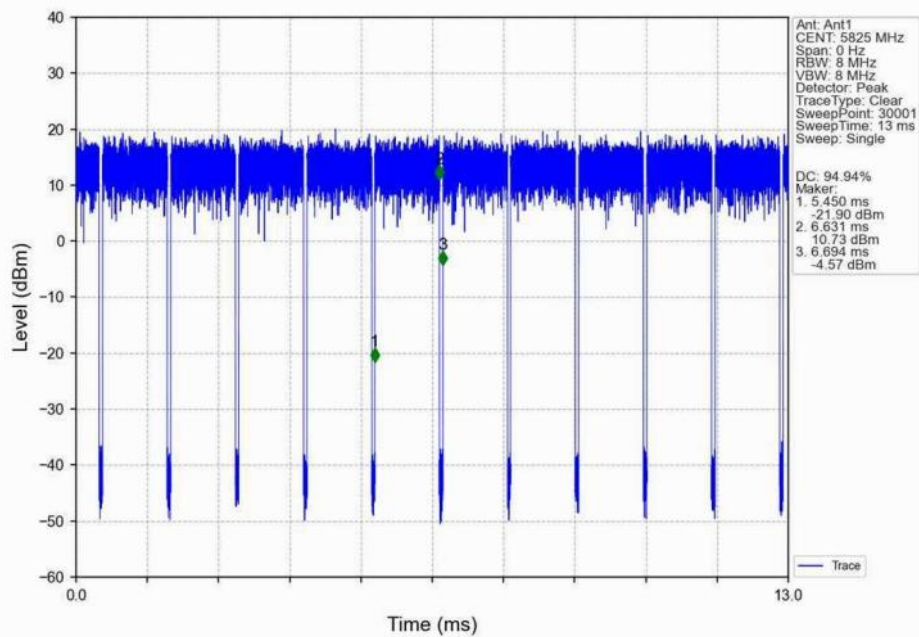
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



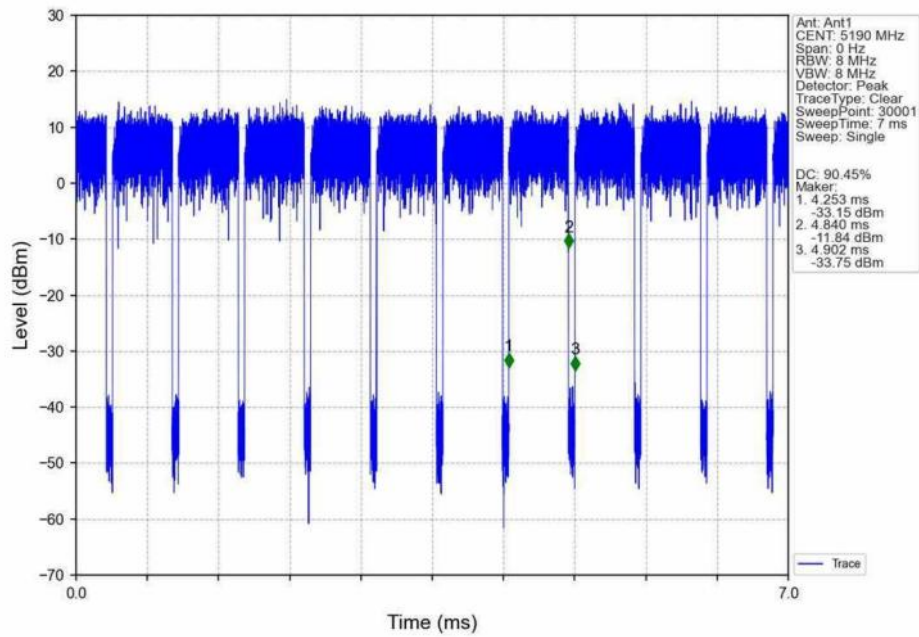
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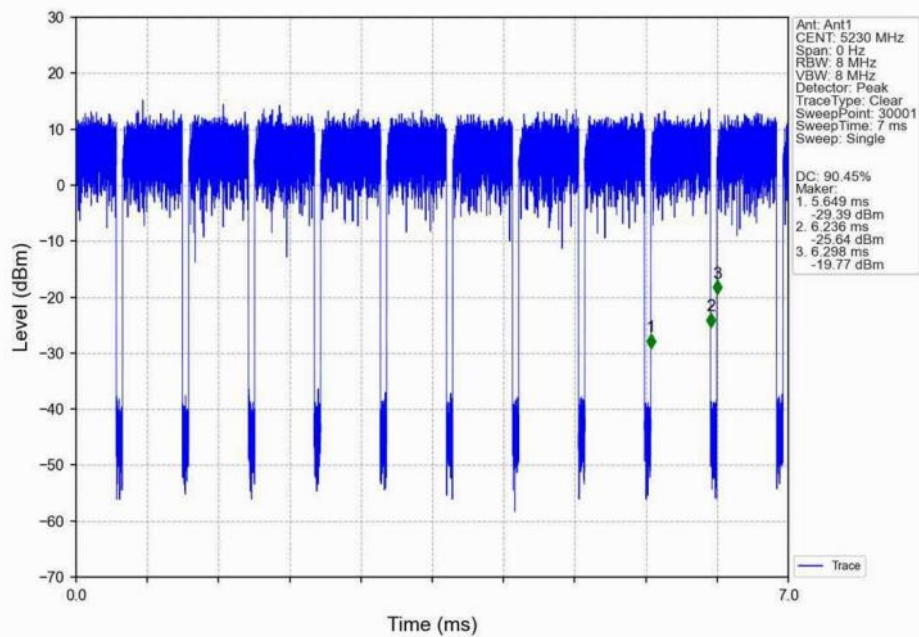
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



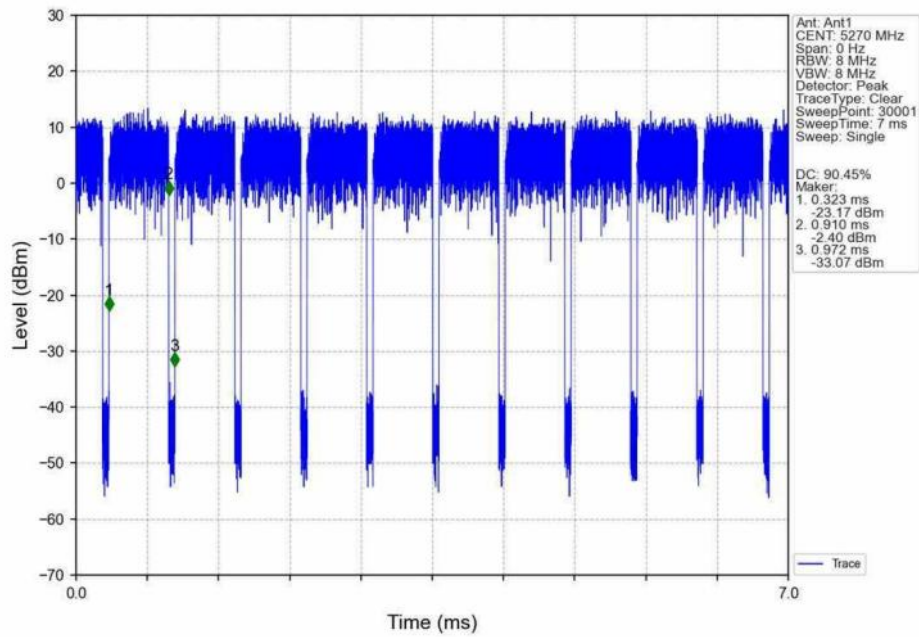
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



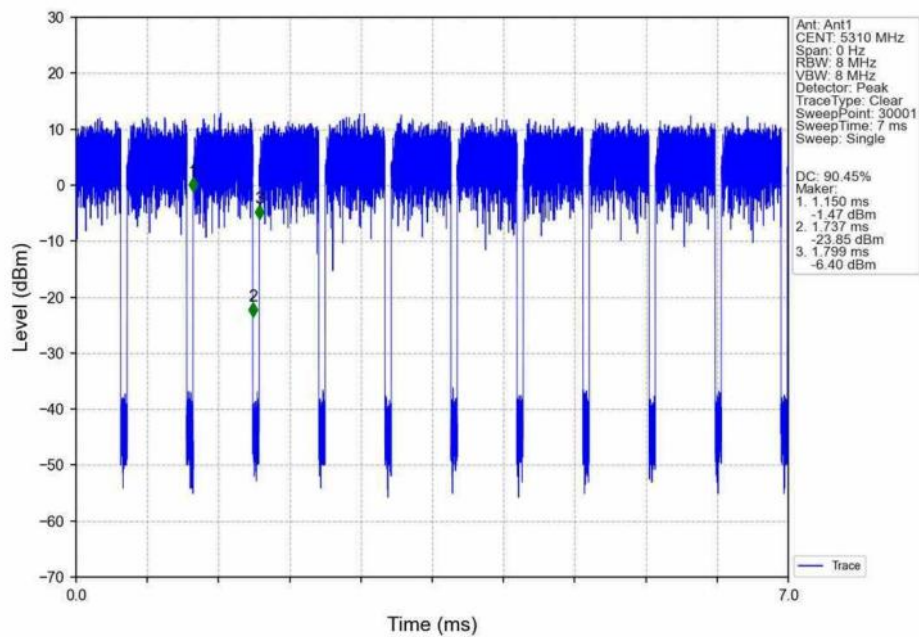
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



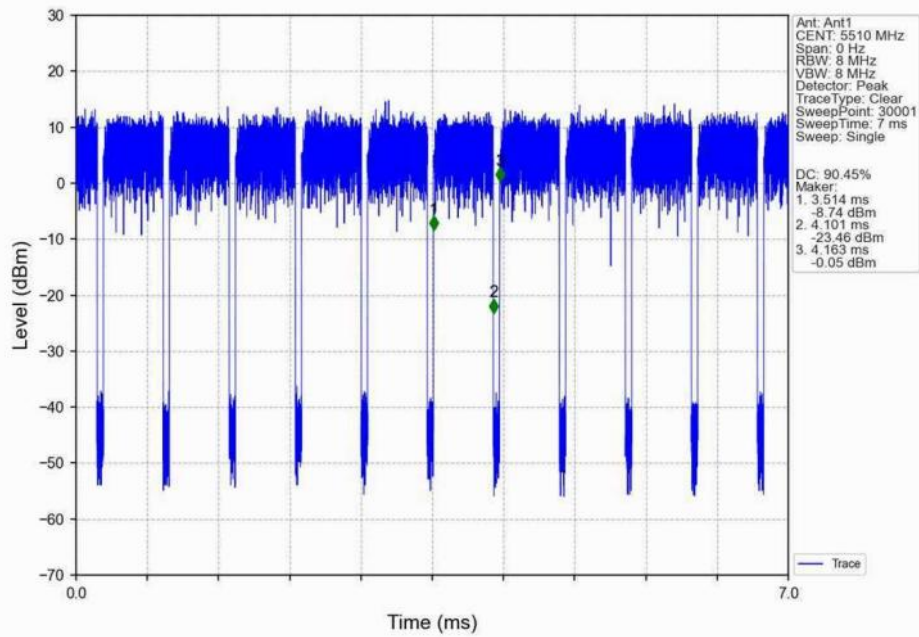
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



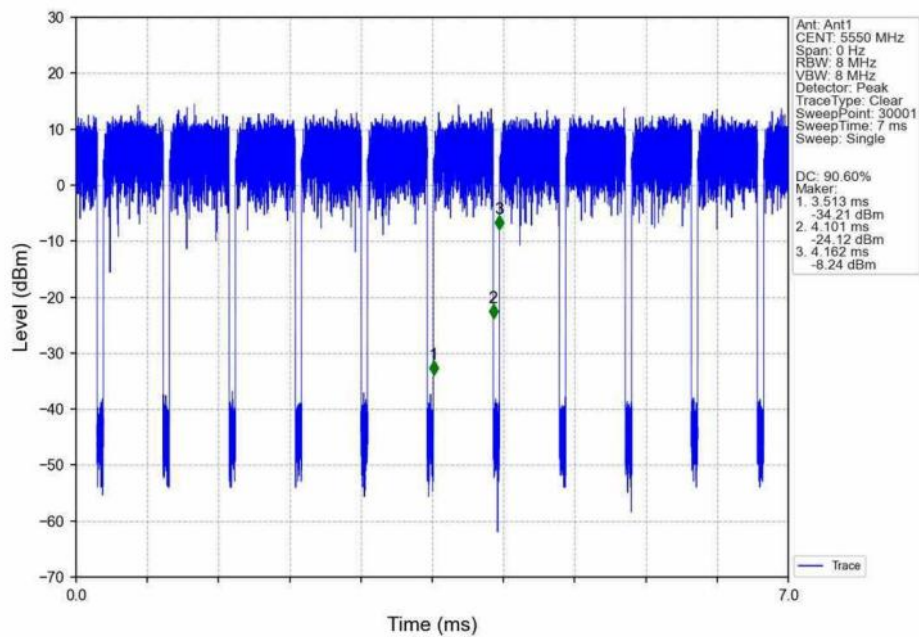
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



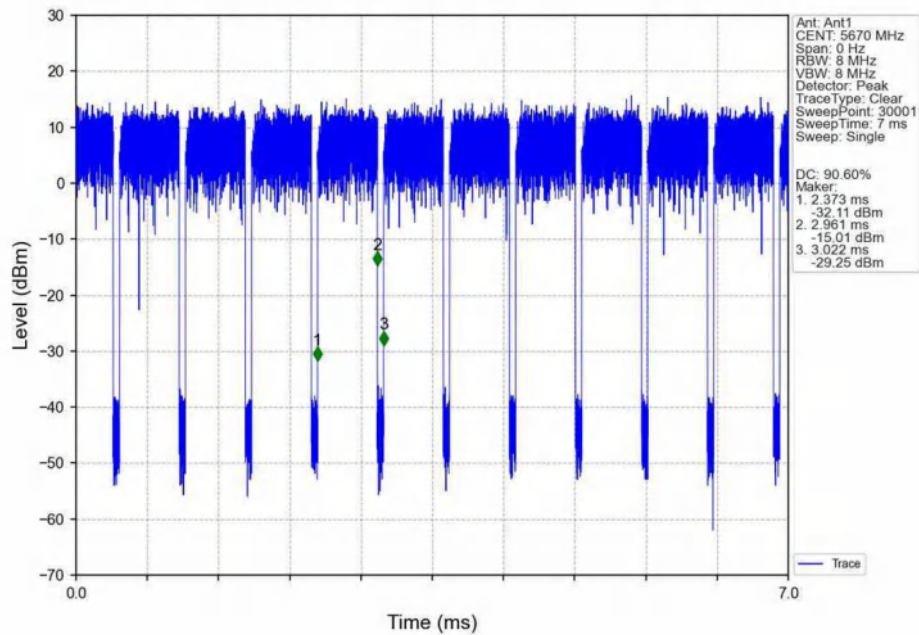
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



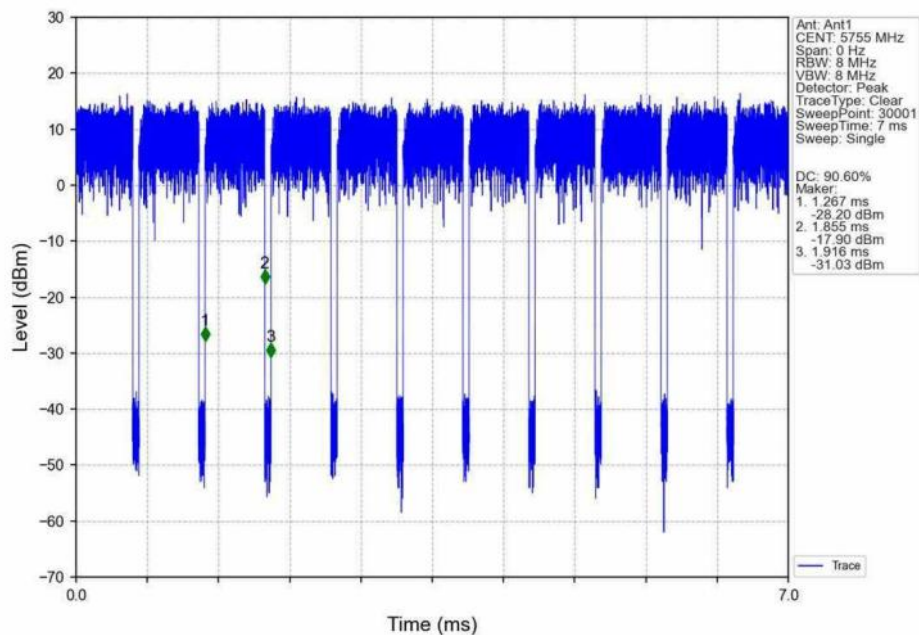
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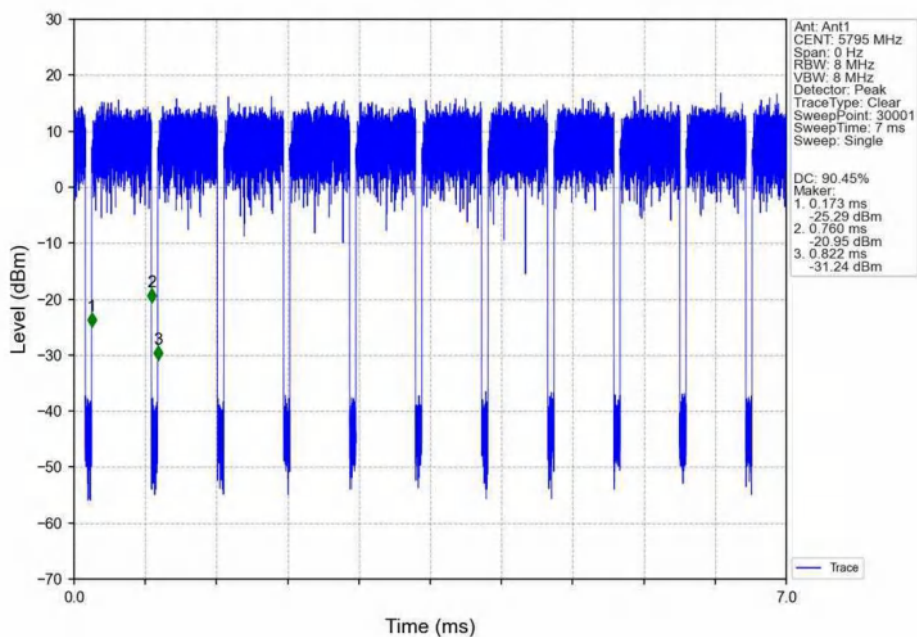
802.11n(HT40) HCH 5670MHz_Ant1_NTNV



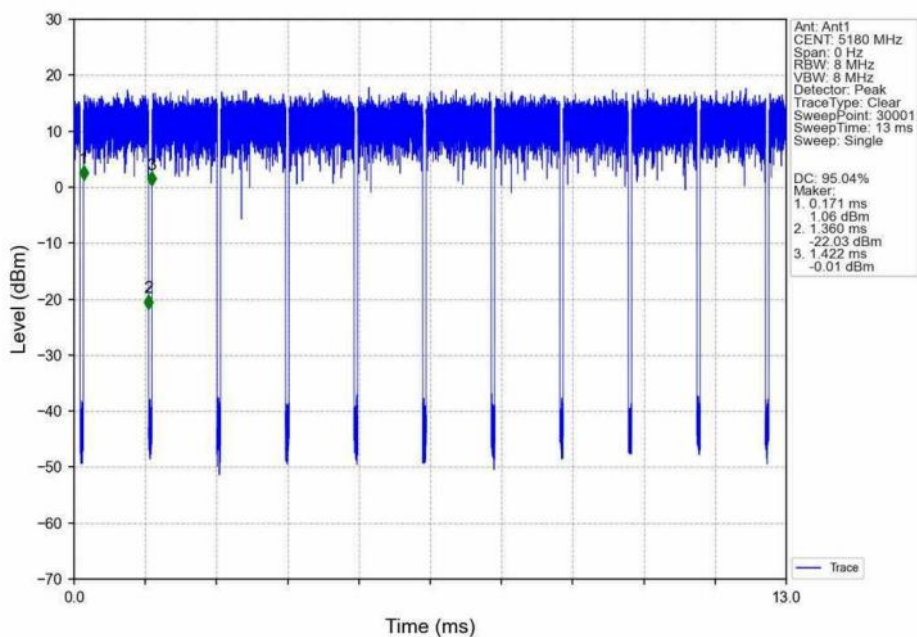
802.11n(HT40) LCH 5755MHz_Ant1_NTNV



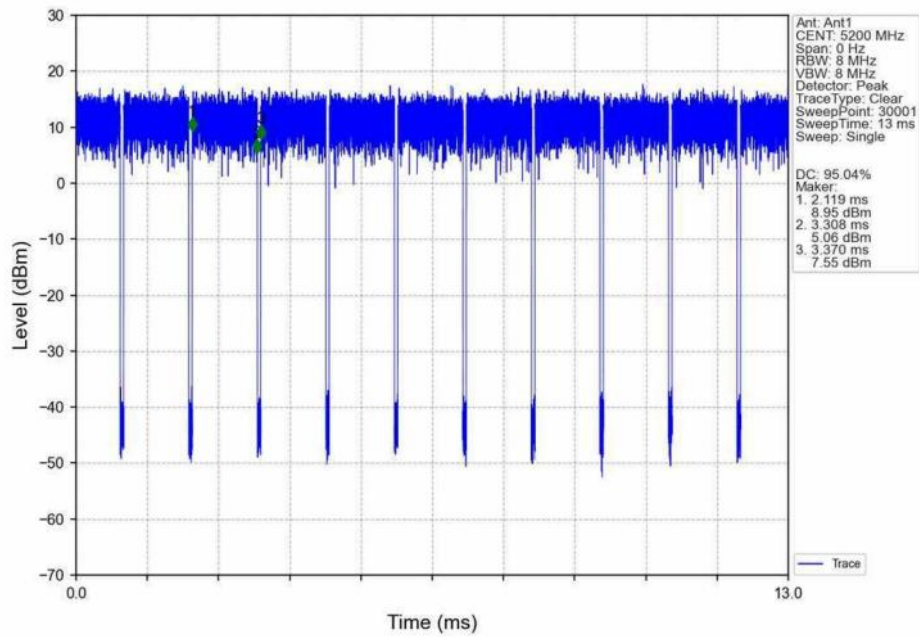
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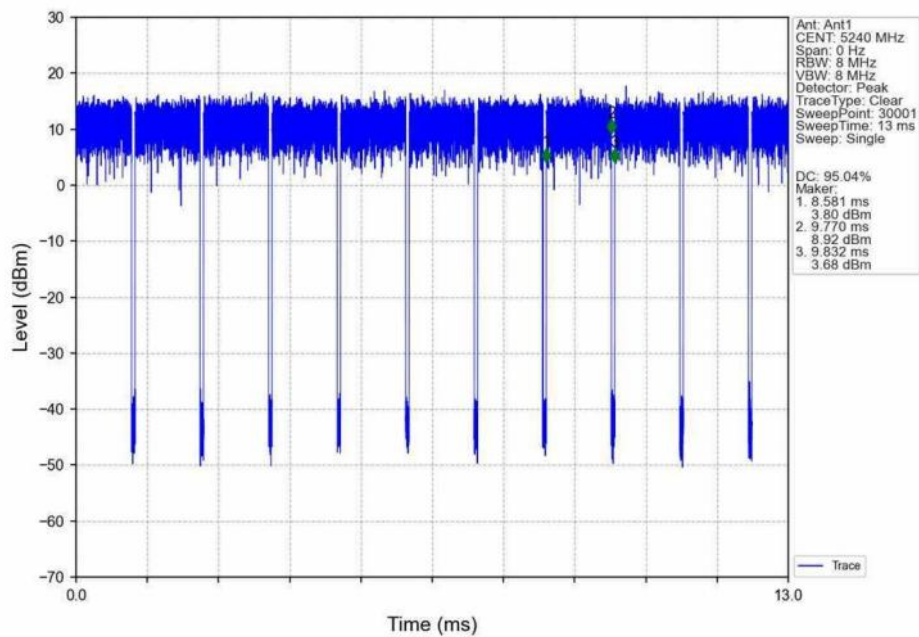
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



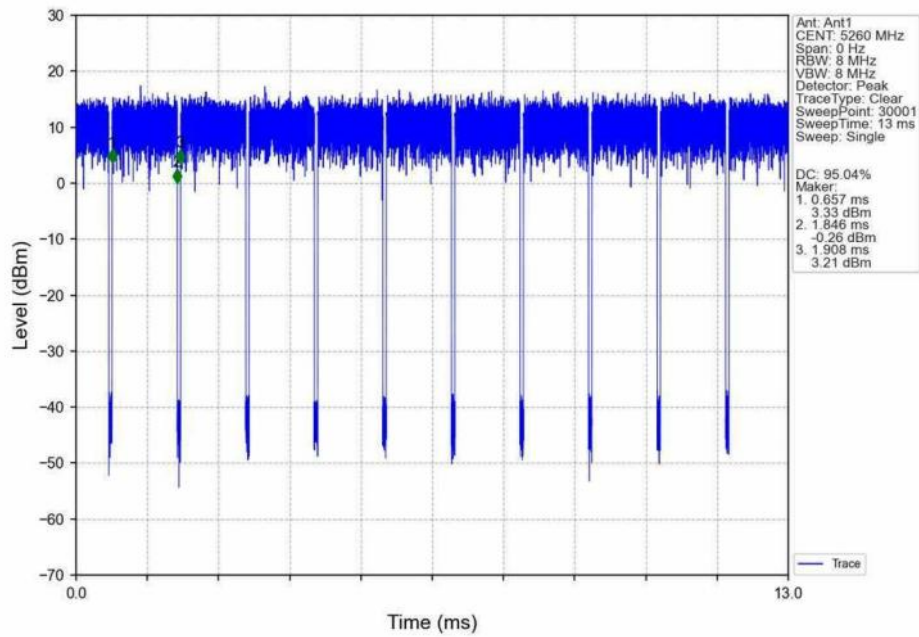
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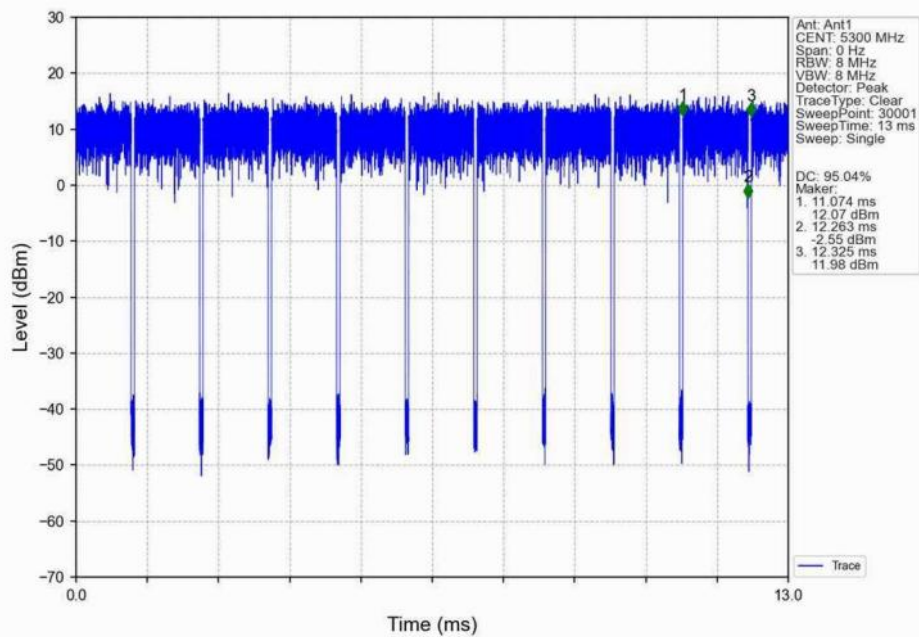
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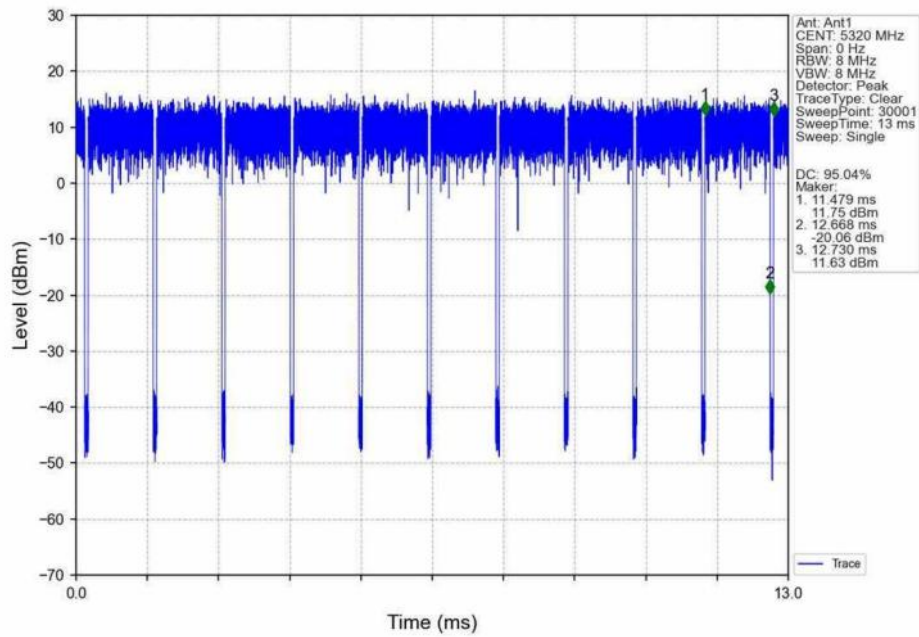
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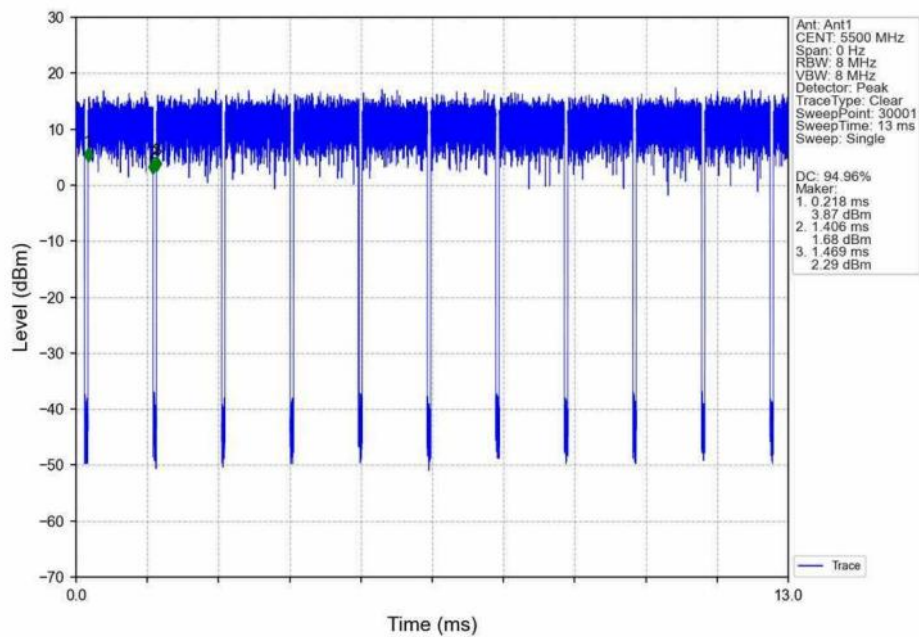
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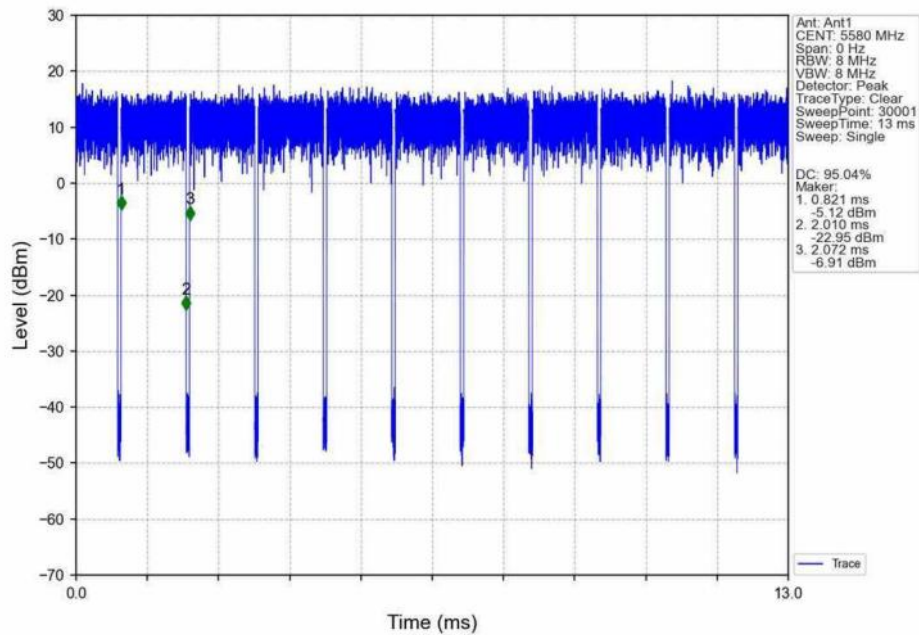
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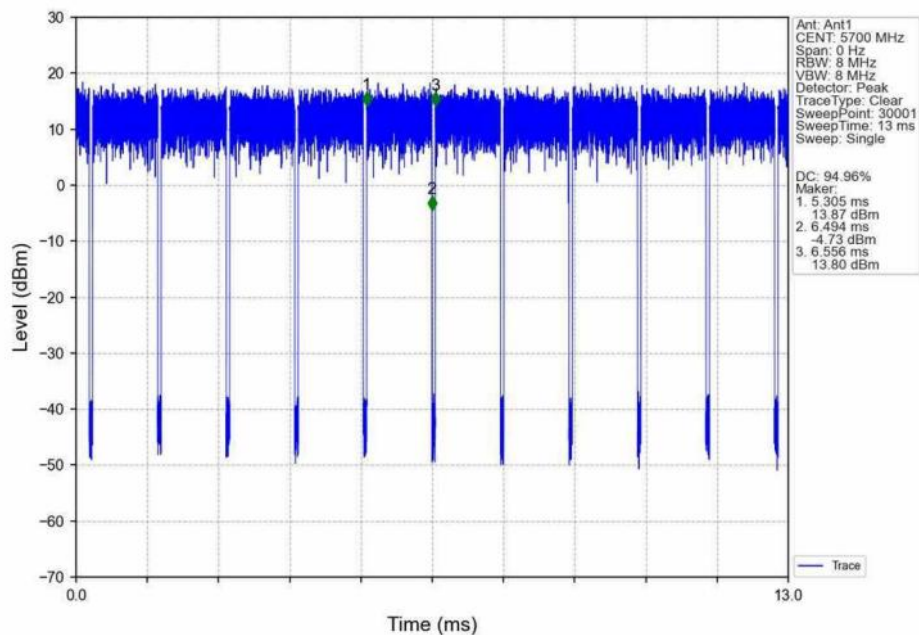
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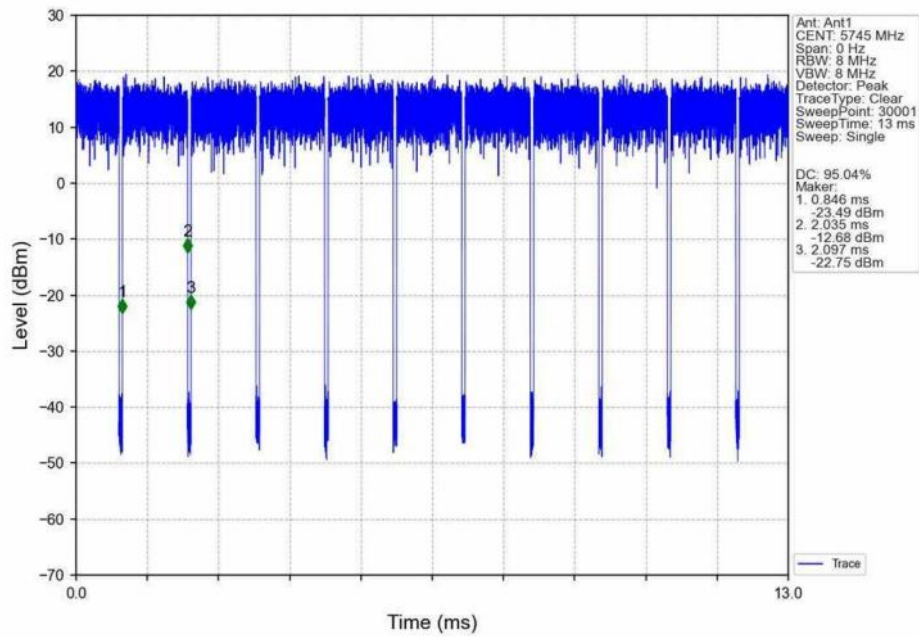
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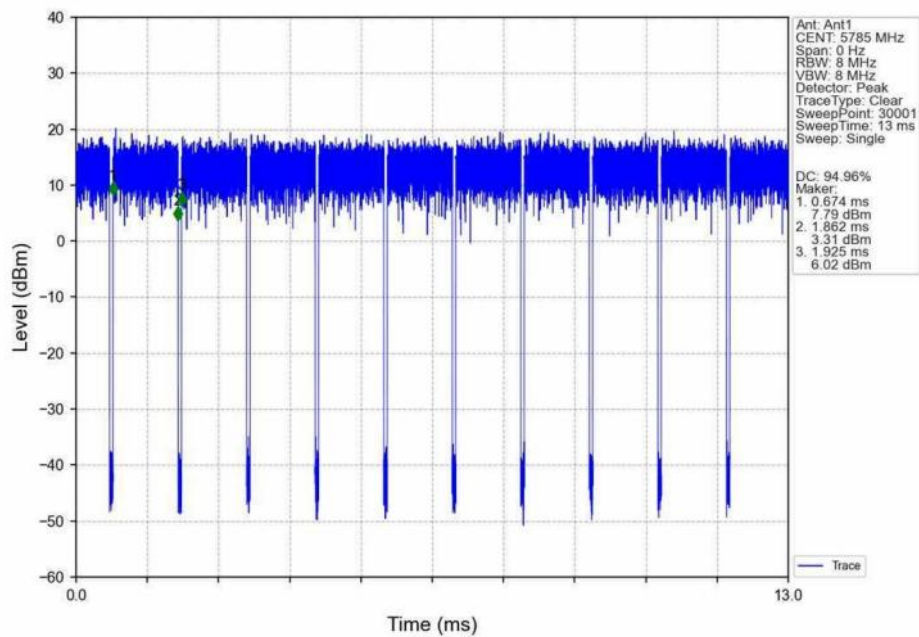
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



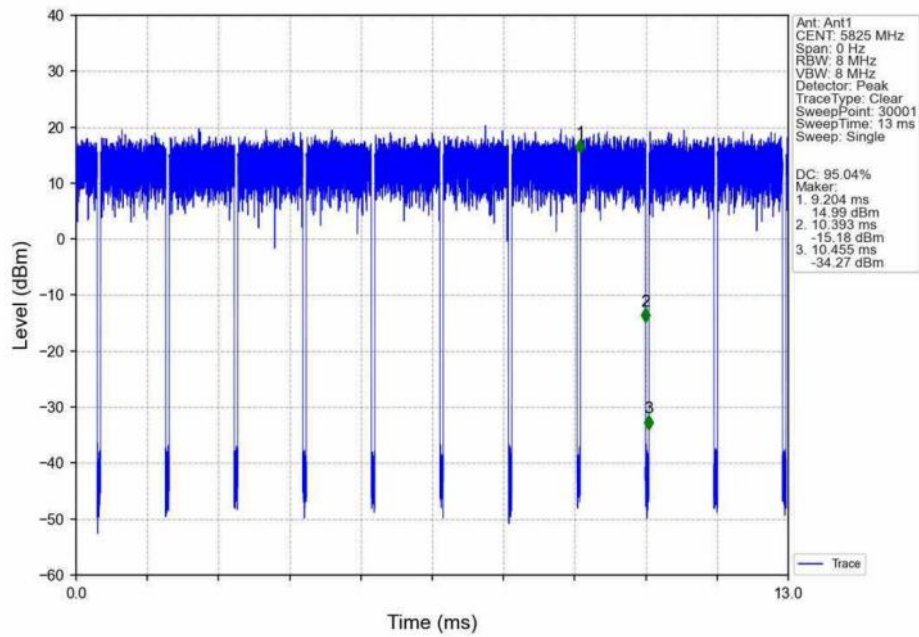
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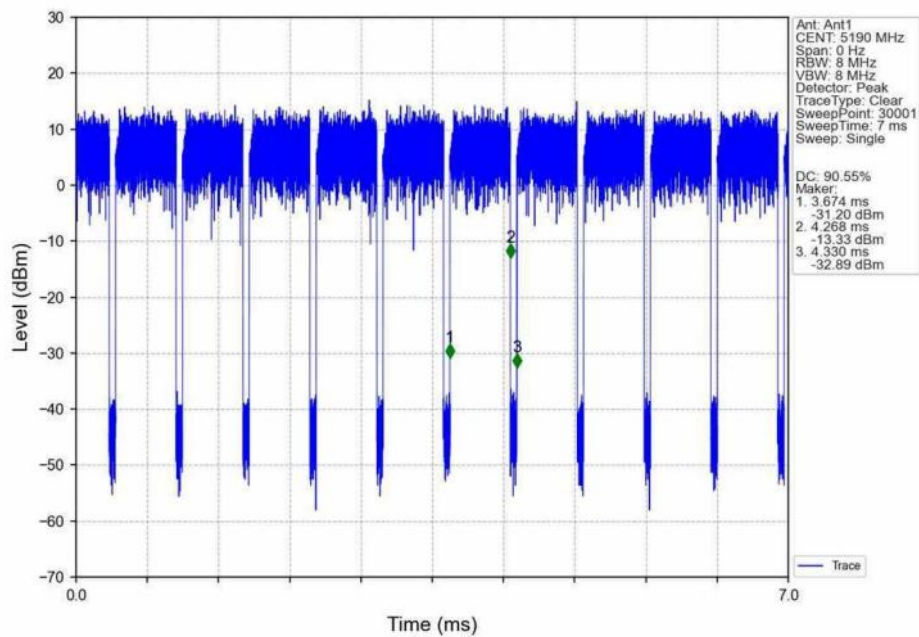
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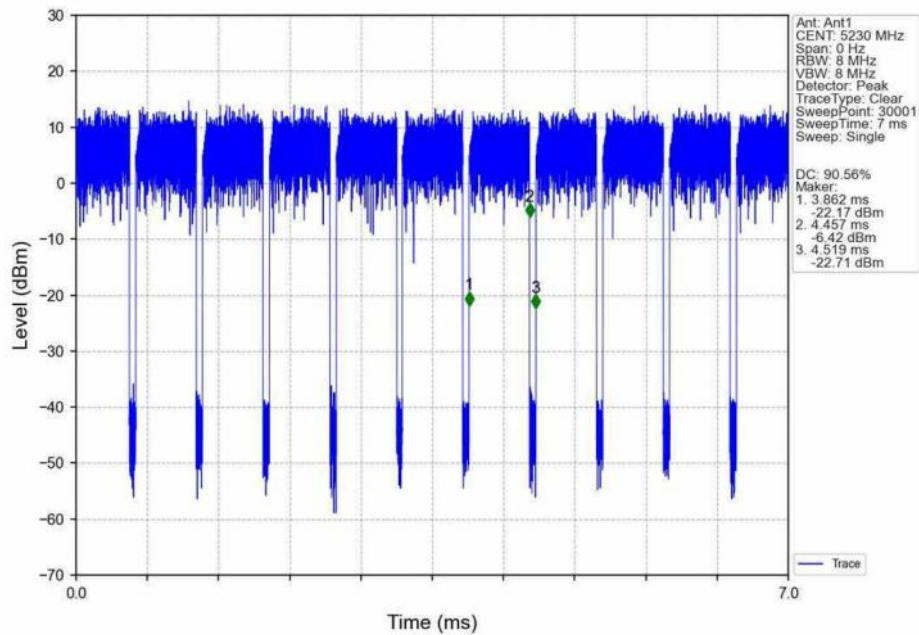
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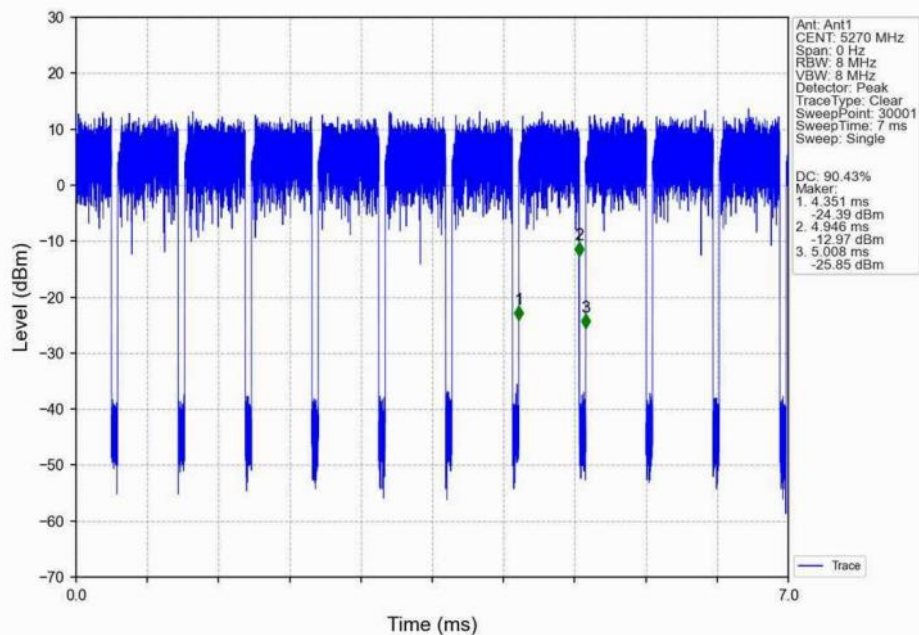
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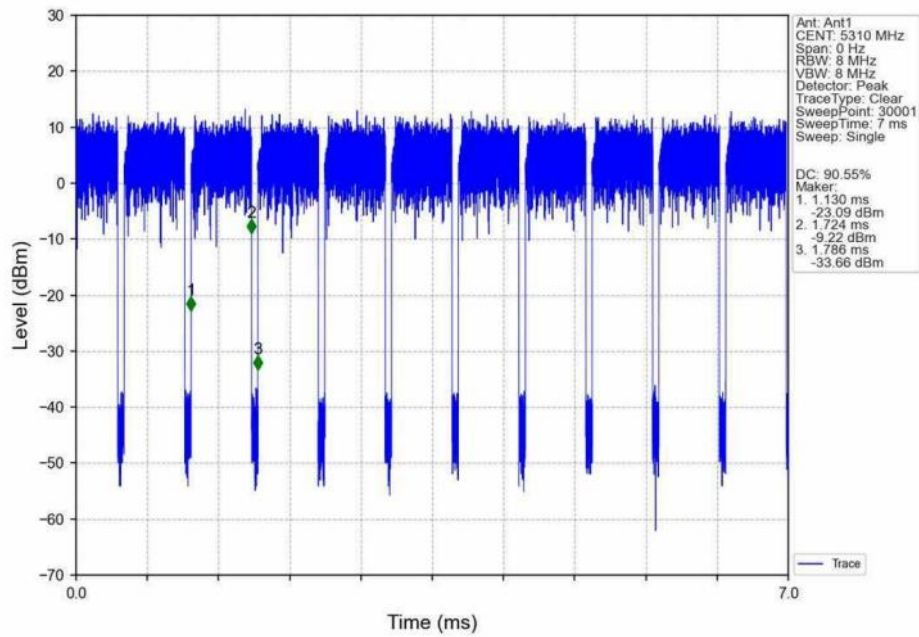
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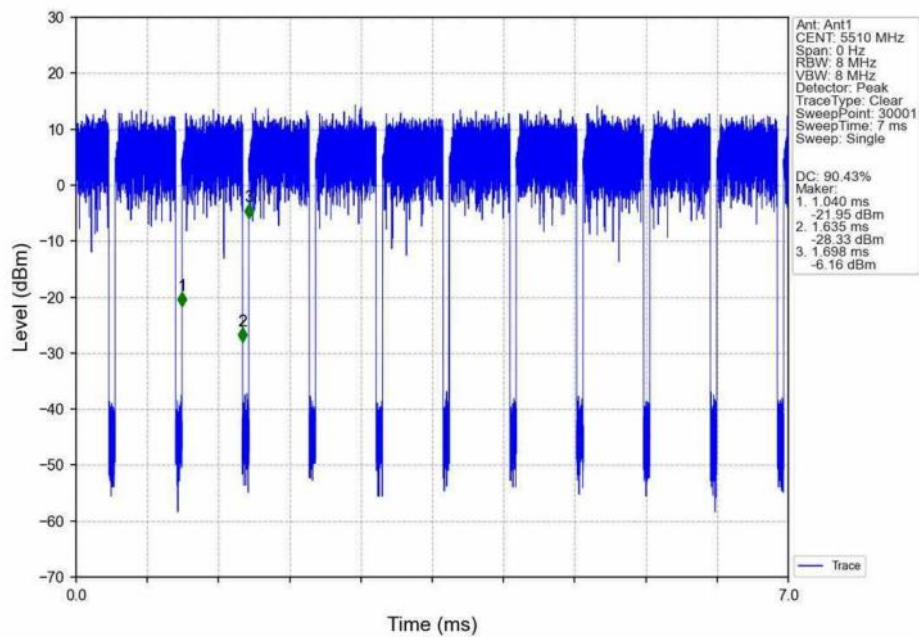
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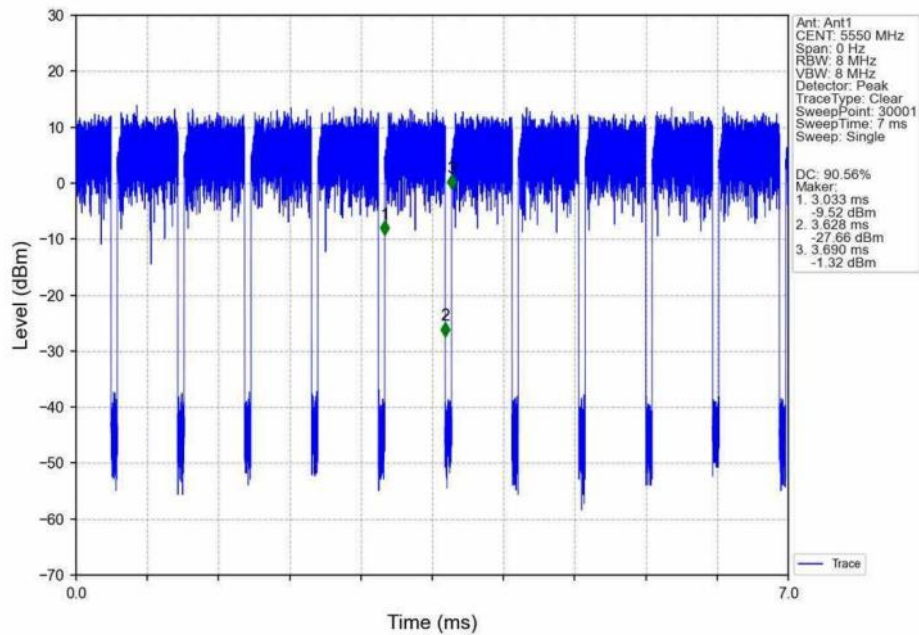
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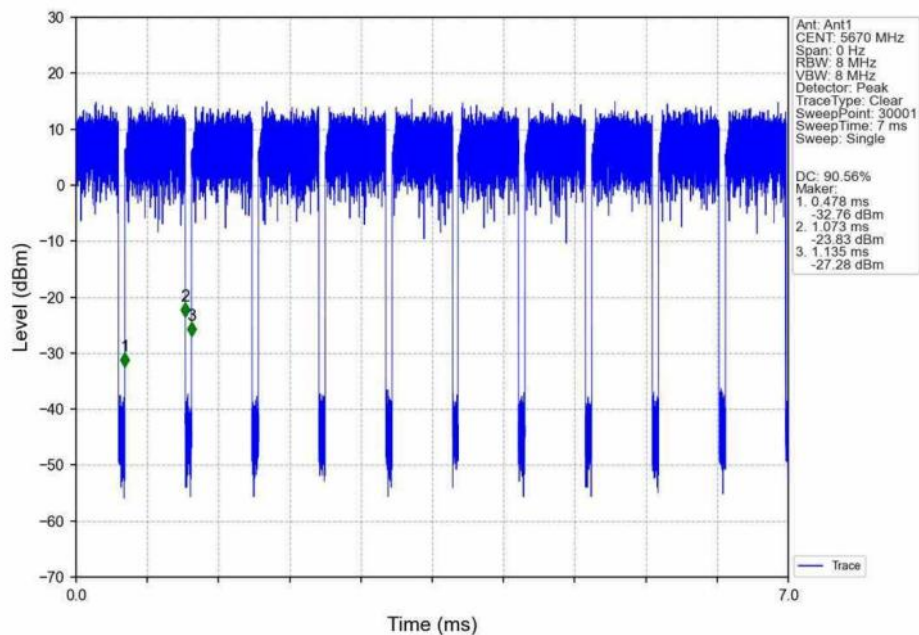
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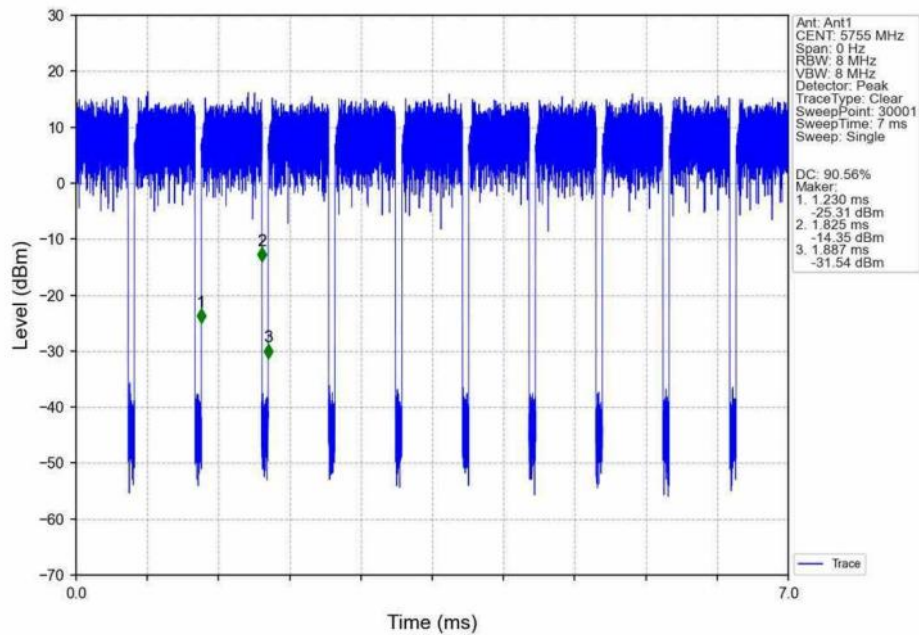
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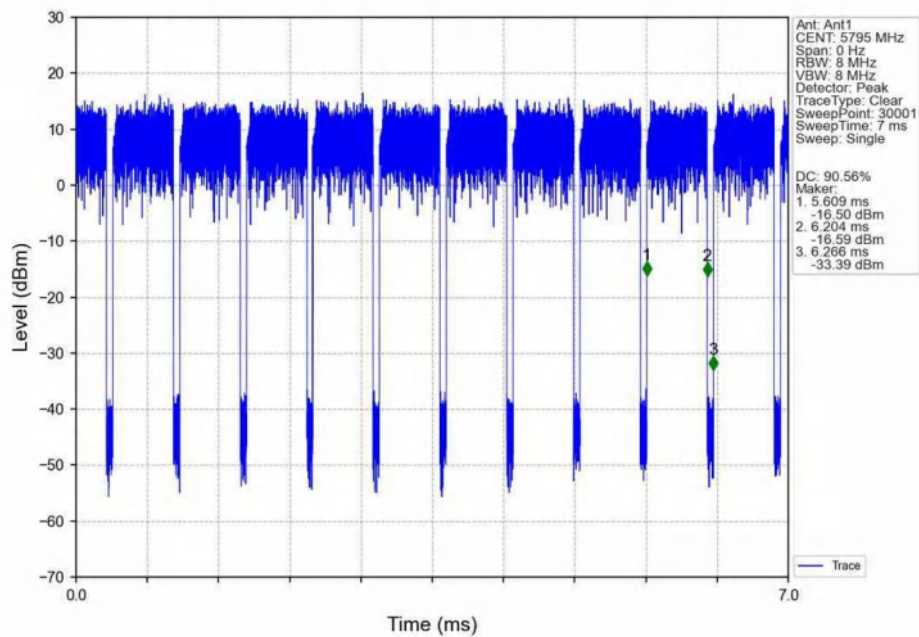
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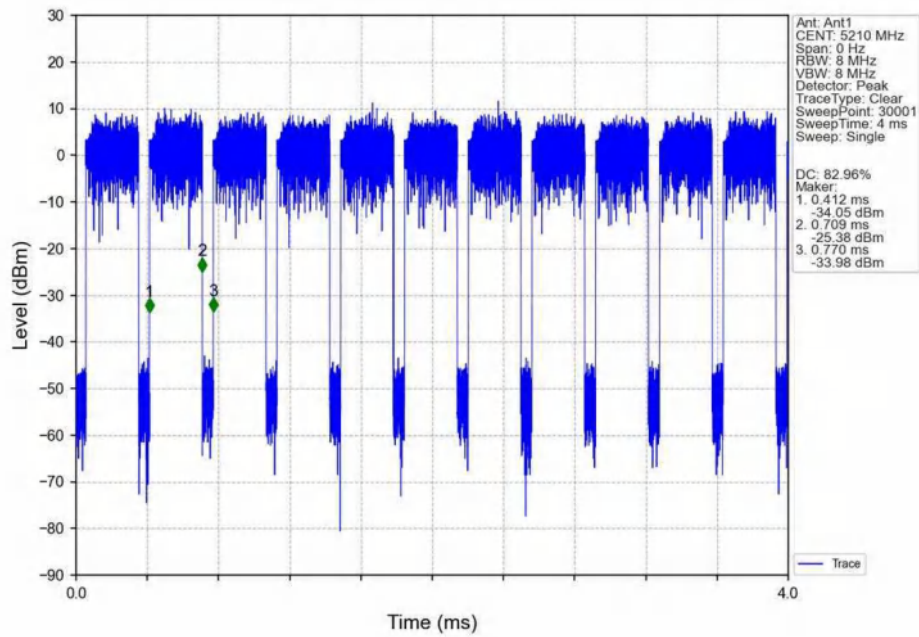
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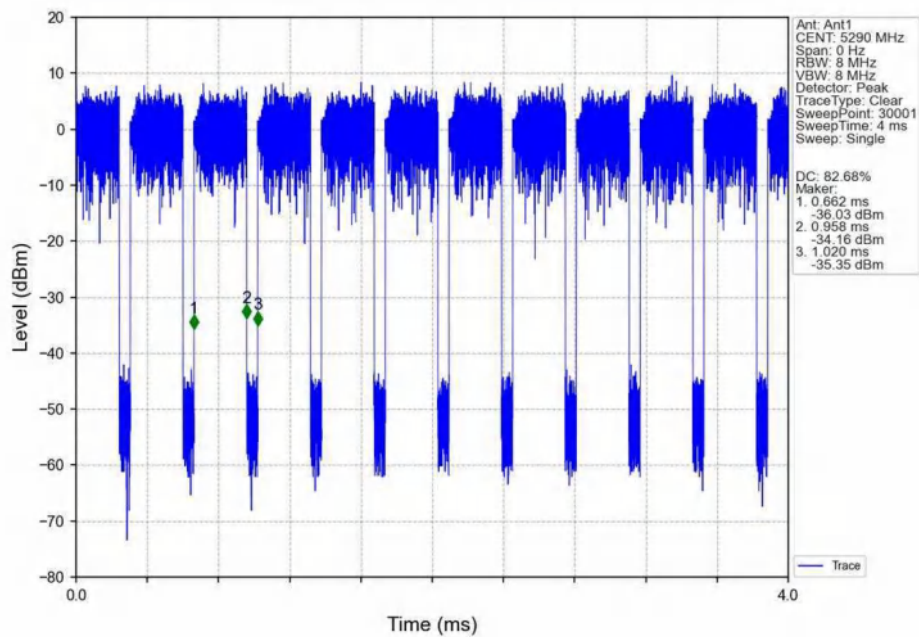
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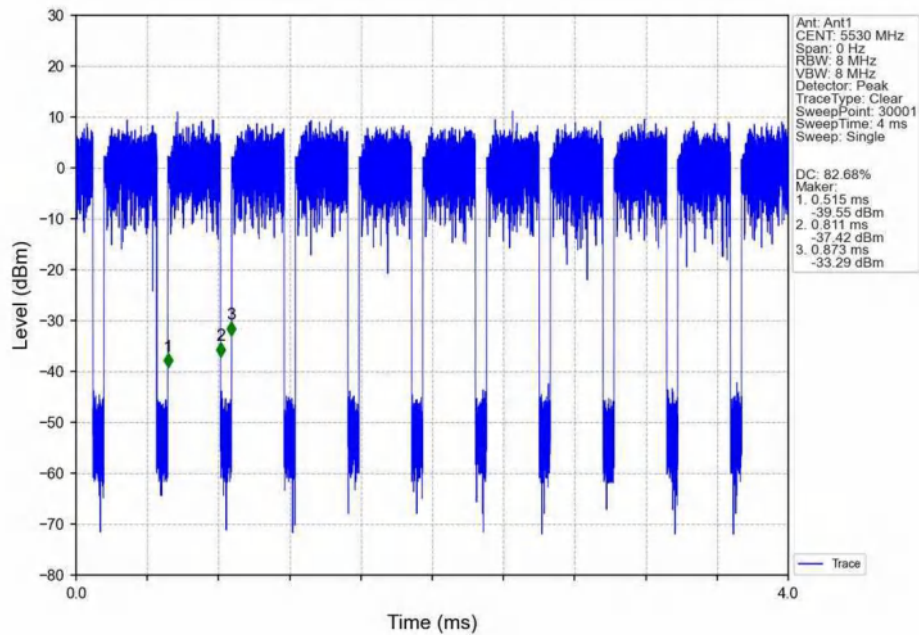
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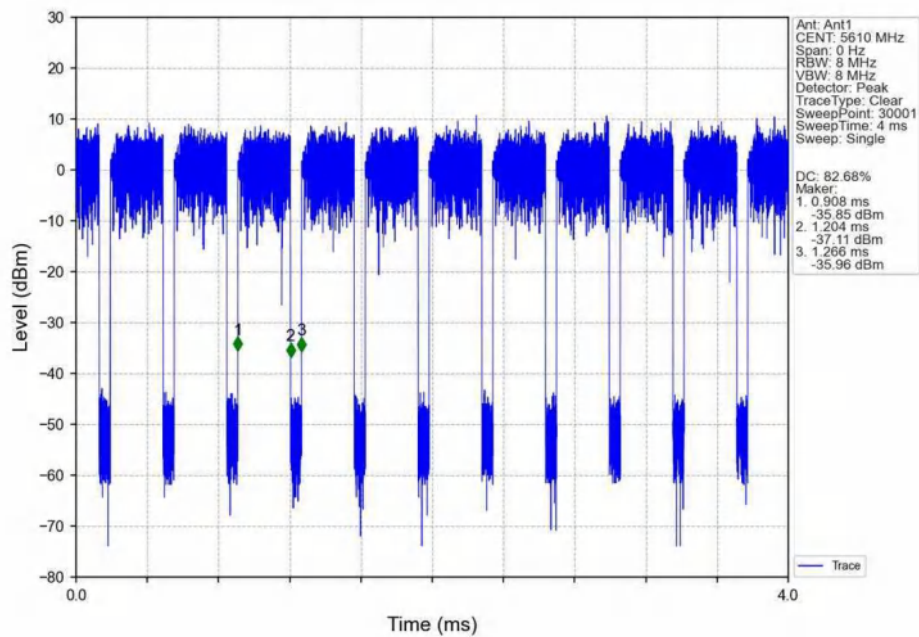
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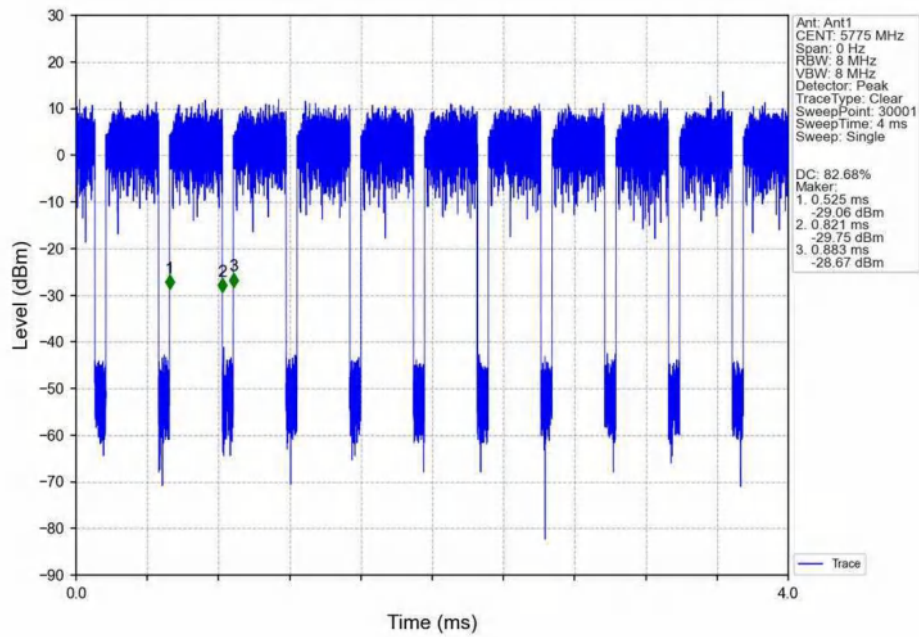
802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



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	17.699	/	Pass
		5200	1	17.797	/	Pass
		5240	1	17.629	/	Pass
		5260	1	17.543	/	Pass
		5300	1	17.561	/	Pass
		5320	1	17.546	/	Pass
		5500	1	17.502	/	Pass
		5580	1	17.453	/	Pass
		5700	1	17.340	/	Pass
		5745	1	17.384	/	Pass
		5785	1	17.385	/	Pass
		5825	1	17.403	/	Pass
802.11n (HT20)	SISO	5180	1	18.415	/	Pass
		5200	1	18.461	/	Pass
		5240	1	18.422	/	Pass
		5260	1	18.360	/	Pass
		5300	1	18.342	/	Pass
		5320	1	18.287	/	Pass
		5500	1	18.205	/	Pass
		5580	1	18.201	/	Pass
		5700	1	18.225	/	Pass
		5745	1	18.183	/	Pass
		5785	1	18.144	/	Pass
		5825	1	18.134	/	Pass
802.11n (HT40)	SISO	5190	1	37.115	/	Pass
		5230	1	36.997	/	Pass
		5270	1	36.970	/	Pass
		5310	1	36.847	/	Pass
		5510	1	36.942	/	Pass
		5550	1	36.844	/	Pass
		5670	1	36.775	/	Pass
		5755	1	36.717	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.410	/	Pass
		5200	1	18.585	/	Pass
		5240	1	18.286	/	Pass
		5260	1	18.348	/	Pass
		5300	1	18.353	/	Pass
		5320	1	18.384	/	Pass
		5500	1	18.276	/	Pass
		5580	1	18.215	/	Pass
		5700	1	18.128	/	Pass
		5745	1	18.213	/	Pass
		5785	1	18.131	/	Pass
		5825	1	18.264	/	Pass
802.11ac (VHT40)	SISO	5190	1	37.236	/	Pass
		5230	1	37.155	/	Pass

		5270	1	37.083	/	Pass
		5310	1	37.050	/	Pass
		5510	1	36.998	/	Pass
		5550	1	36.832	/	Pass
		5670	1	36.868	/	Pass
		5755	1	36.936	/	Pass
		5795	1	36.843	/	Pass
802.11ac (VHT80)	SISO	5210	1	78.169	/	Pass
		5290	1	77.529	/	Pass
		5530	1	77.184	/	Pass
		5610	1	76.879	/	Pass
		5775	1	76.607	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	32.352	/	Pass
		5200	1	32.537	/	Pass
		5240	1	32.122	/	Pass
		5260	1	33.217	/	Pass
		5300	1	32.424	/	Pass
		5320	1	32.151	/	Pass
		5500	1	30.931	/	Pass
		5580	1	28.675	/	Pass
802.11n (HT20)	SISO	5700	1	26.613	/	Pass
		5180	1	38.153	/	Pass
		5200	1	39.163	/	Pass
		5240	1	37.825	/	Pass
		5260	1	35.254	/	Pass
		5300	1	34.289	/	Pass
		5320	1	38.182	/	Pass
		5500	1	36.045	/	Pass
802.11n (HT40)	SISO	5580	1	34.165	/	Pass
		5700	1	28.701	/	Pass
		5190	1	73.278	/	Pass
		5230	1	70.317	/	Pass
		5270	1	62.130	/	Pass
		5310	1	66.291	/	Pass
		5510	1	63.154	/	Pass
		5550	1	60.038	/	Pass
802.11ac (VHT20)	SISO	5670	1	55.276	/	Pass
		5180	1	37.874	/	Pass
		5200	1	38.659	/	Pass
		5240	1	35.305	/	Pass
		5260	1	37.147	/	Pass
		5300	1	32.435	/	Pass
		5320	1	36.347	/	Pass
		5500	1	32.491	/	Pass
802.11ac (VHT40)	SISO	5580	1	35.138	/	Pass
		5700	1	34.189	/	Pass
		5190	1	83.590	/	Pass
		5230	1	77.451	/	Pass
		5270	1	62.615	/	Pass
		5310	1	67.563	/	Pass
		5510	1	71.906	/	Pass
		5550	1	58.464	/	Pass
		5670	1	52.763	/	Pass

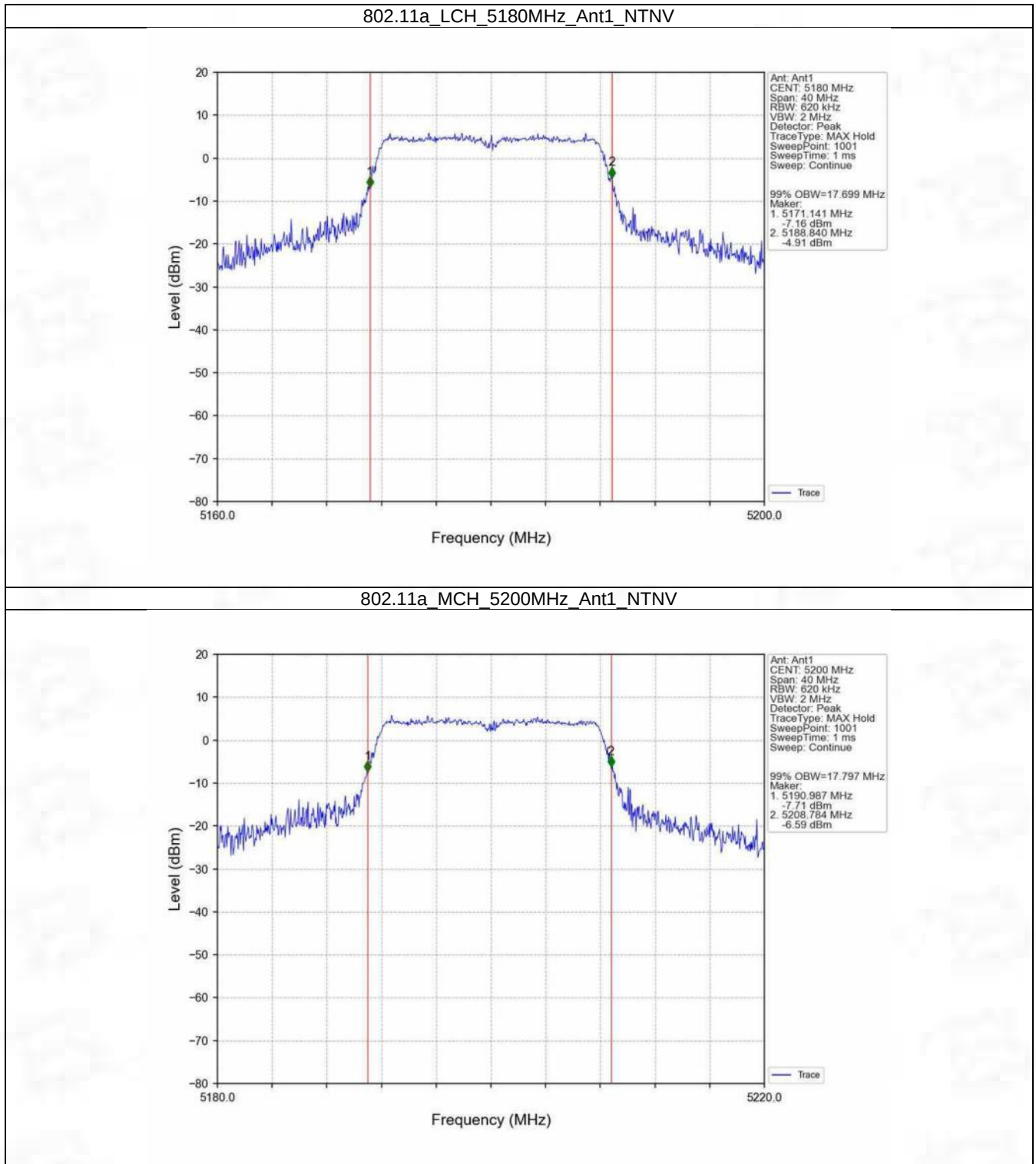
802.11ac (VHT80)	SISO	5210	1	188.674	/	Pass
		5290	1	181.703	/	Pass
		5530	1	182.507	/	Pass
		5610	1	128.753	/	Pass

2.1.3 6dB BW

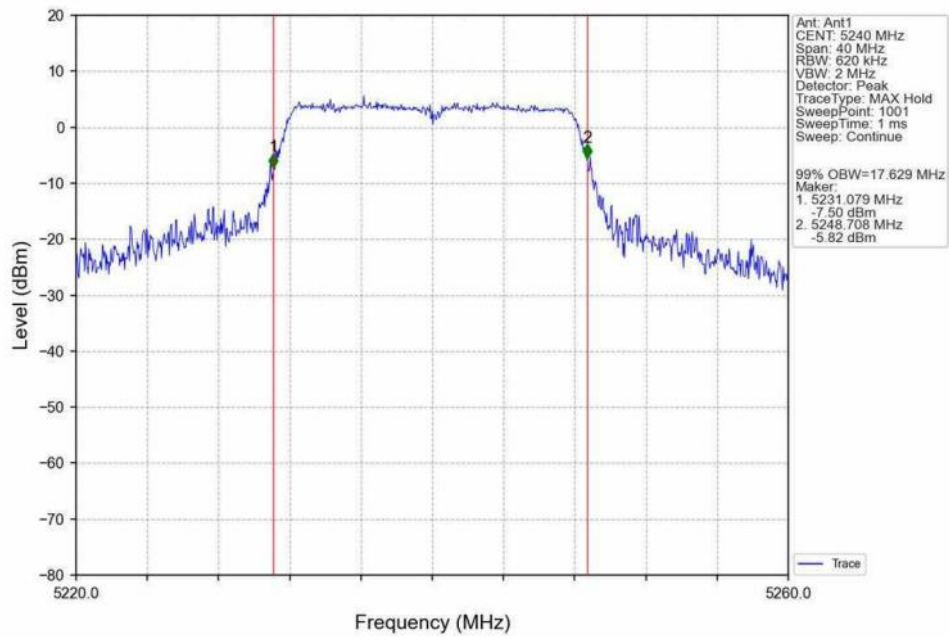
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.374	≥ 0.5	Pass
		5785	1	16.370	≥ 0.5	Pass
		5825	1	16.382	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.291	≥ 0.5	Pass
		5785	1	17.164	≥ 0.5	Pass
		5825	1	17.372	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.078	≥ 0.5	Pass
		5795	1	35.869	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.426	≥ 0.5	Pass
		5785	1	17.410	≥ 0.5	Pass
		5825	1	17.282	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.960	≥ 0.5	Pass
		5795	1	36.137	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.462	≥ 0.5	Pass

2.2 Test Graph

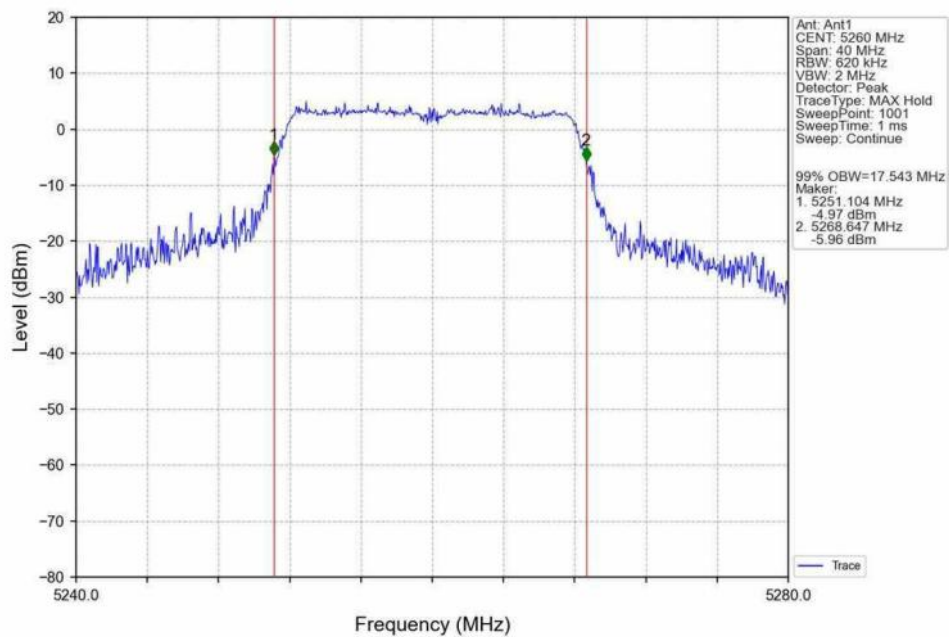
2.2.1 OBW



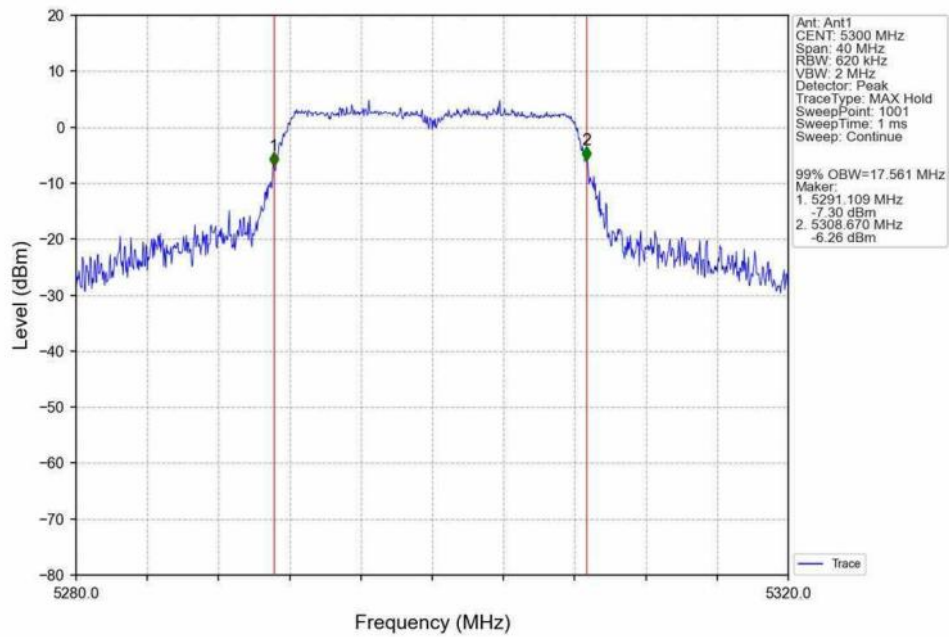
802.11a_HCH_5240MHz_Ant1_NTNV



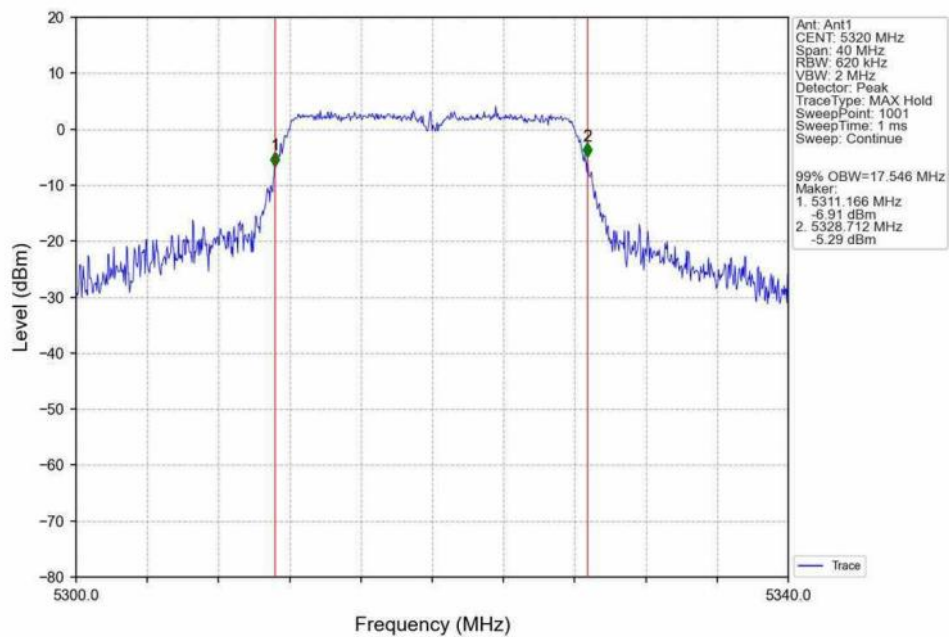
802.11a_LCH_5260MHz_Ant1_NTNV



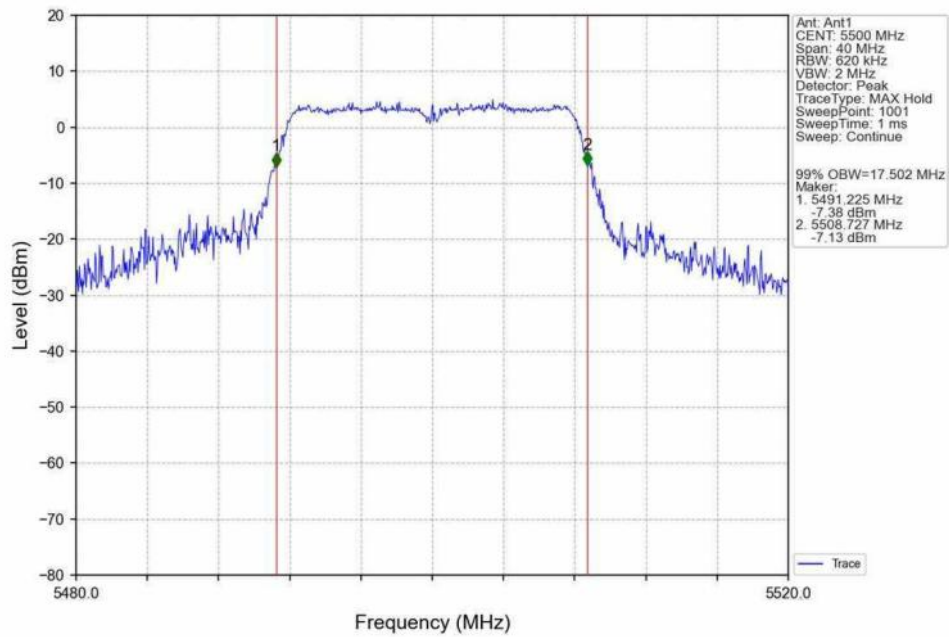
802.11a_MCH_5300MHz_Ant1_NTNV



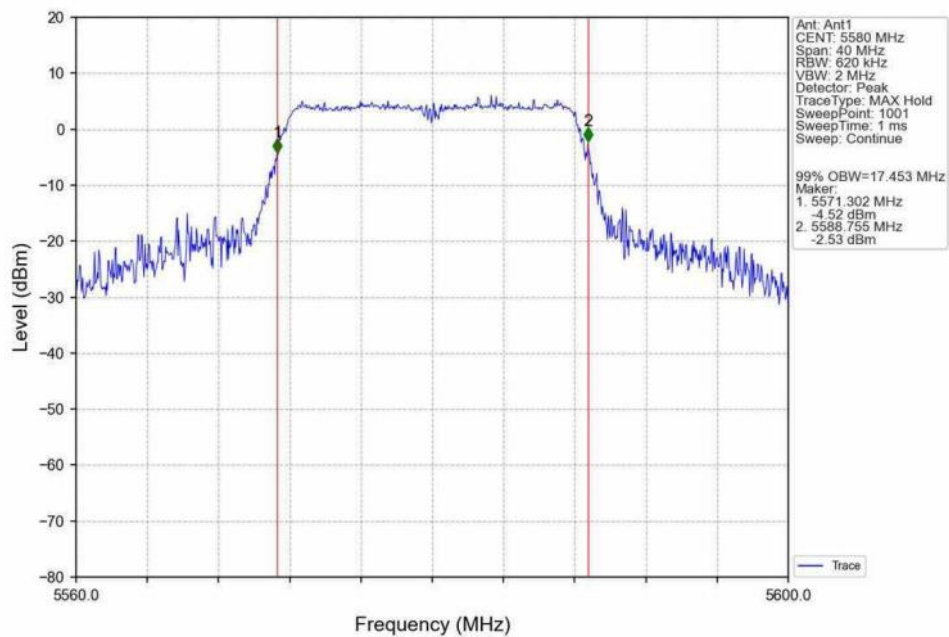
802.11a_HCH_5320MHz_Ant1_NTNV



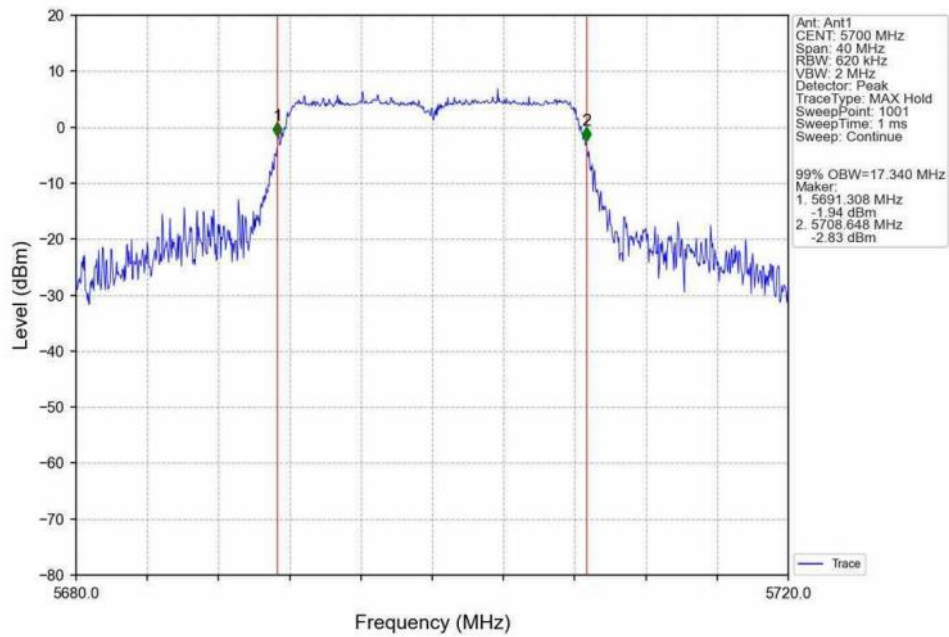
802.11a_LCH_5500MHz_Ant1_NTNV



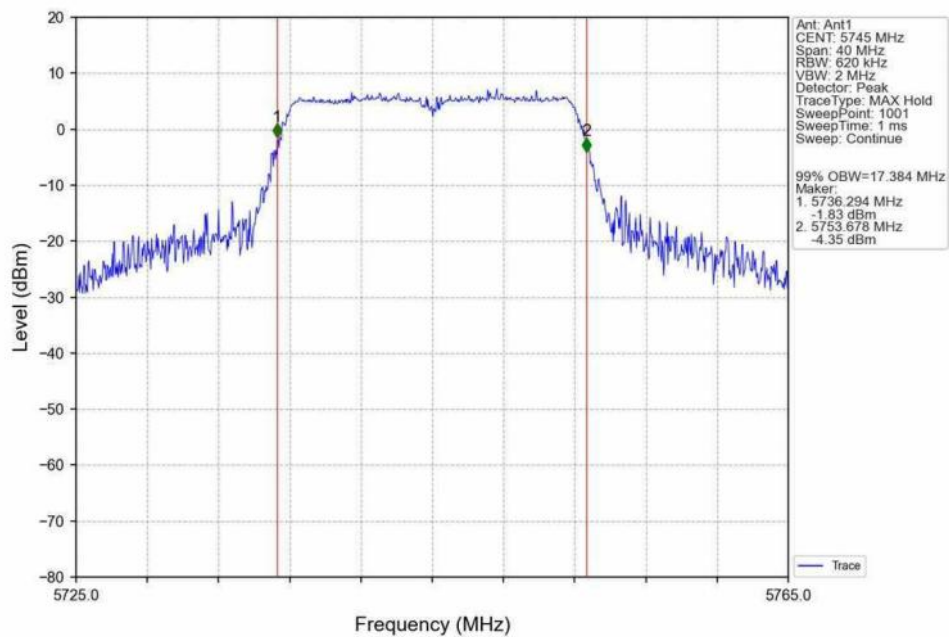
802.11a_MCH_5580MHz_Ant1_NTNV



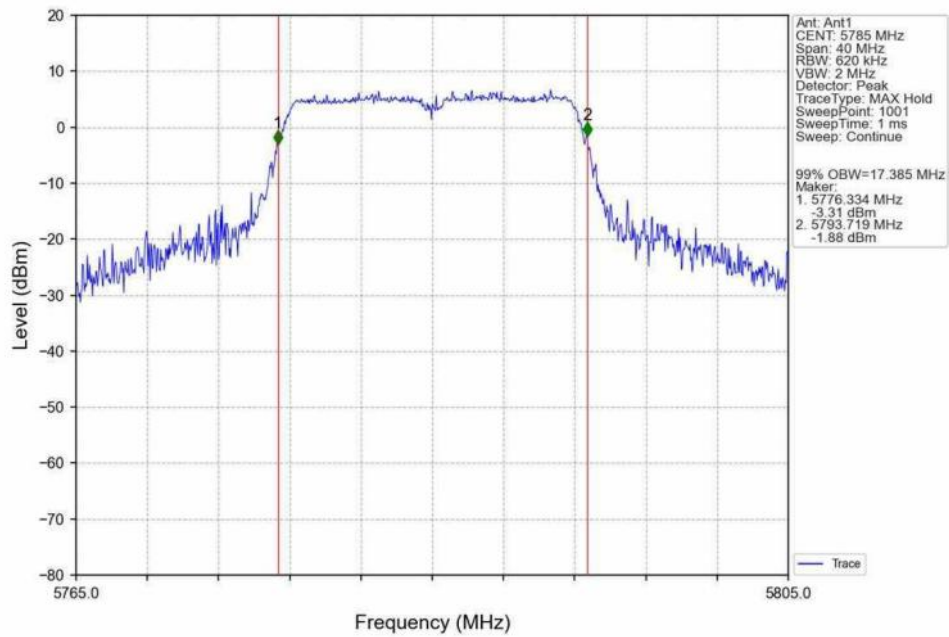
802.11a_HCH_5700MHz_Ant1_NTNV



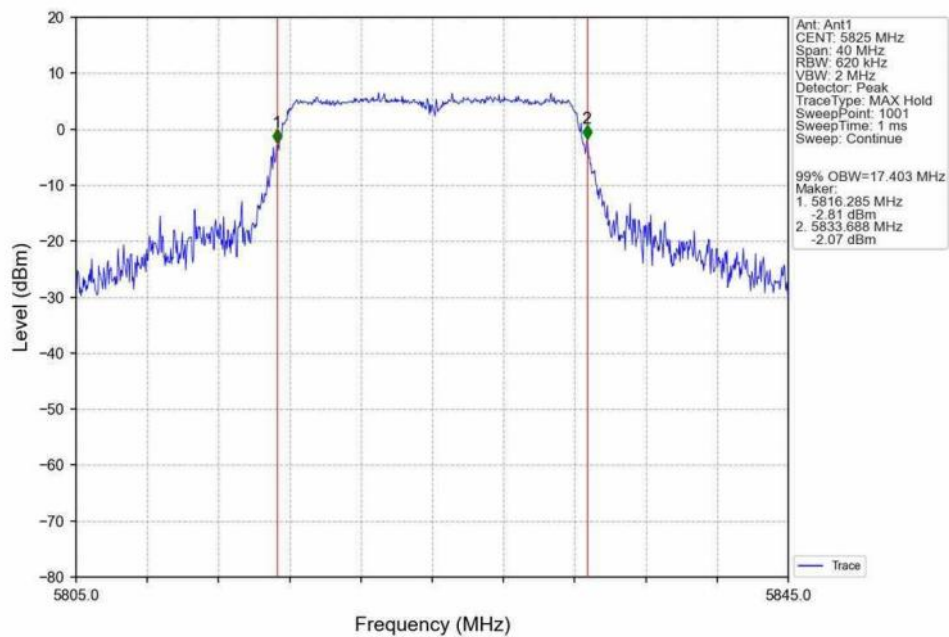
802.11a_LCH_5745MHz_Ant1_NTNV



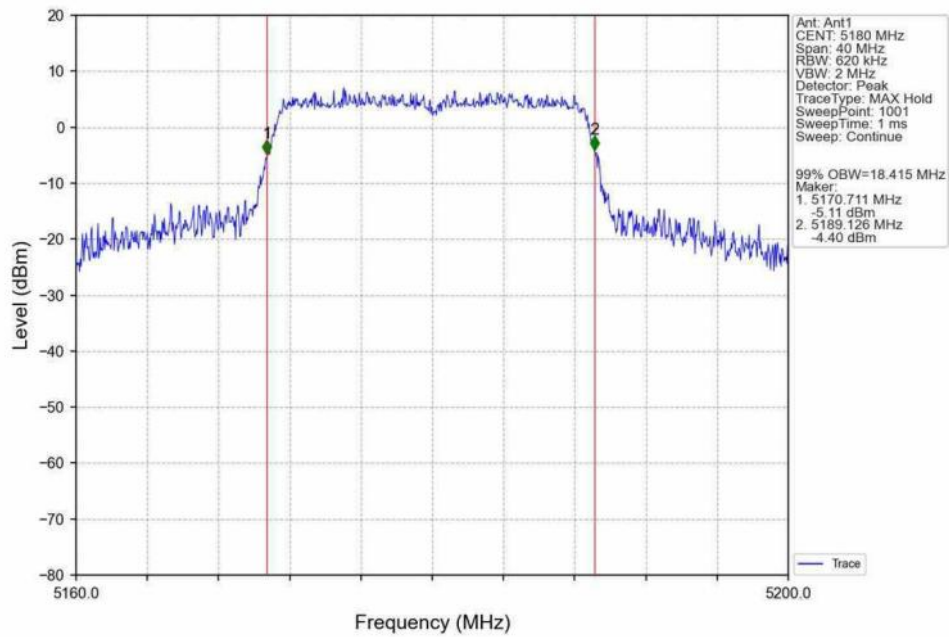
802.11a_MCH_5785MHz_Ant1_NTNV



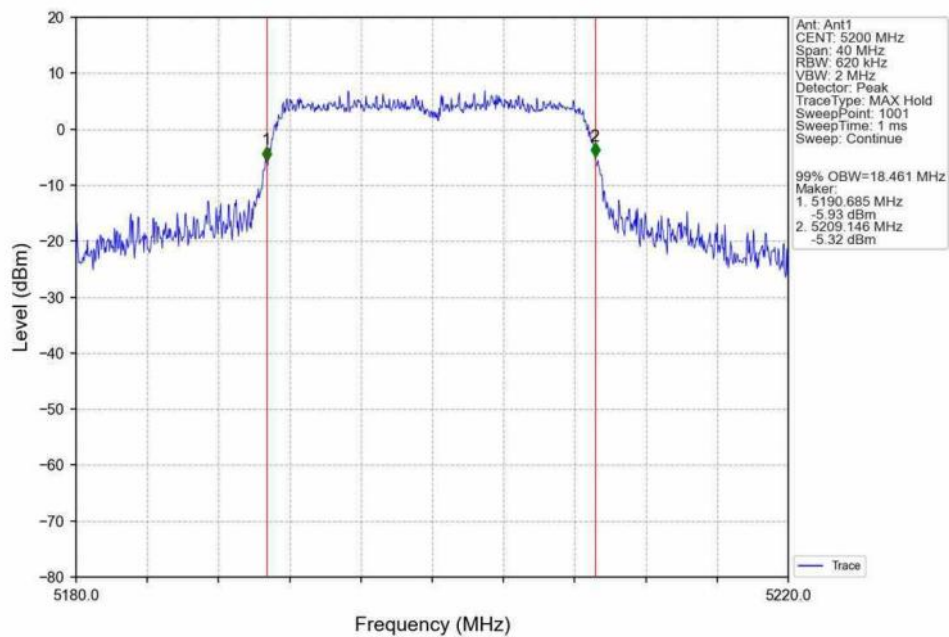
802.11a_HCH_5825MHz_Ant1_NTNV



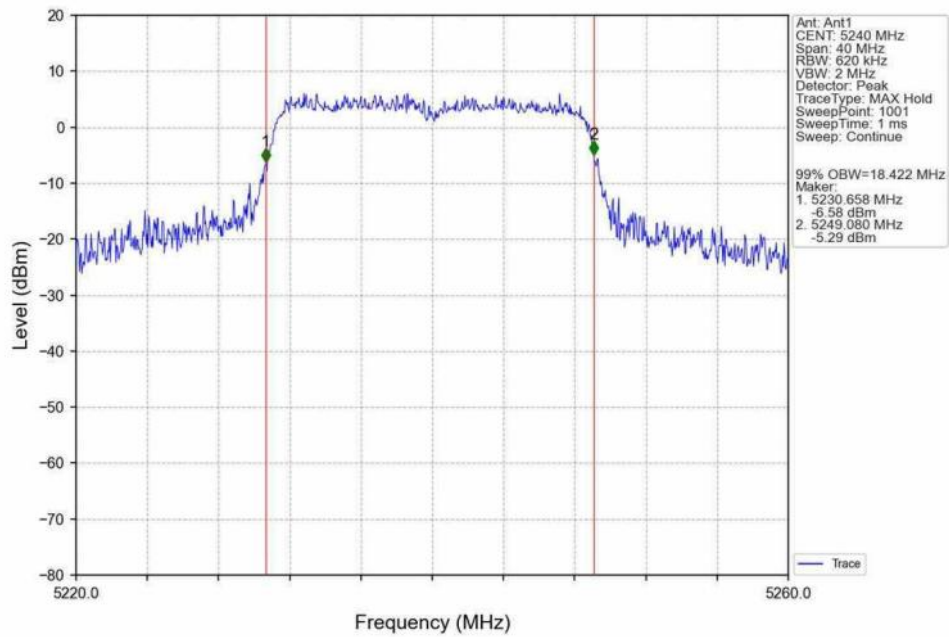
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



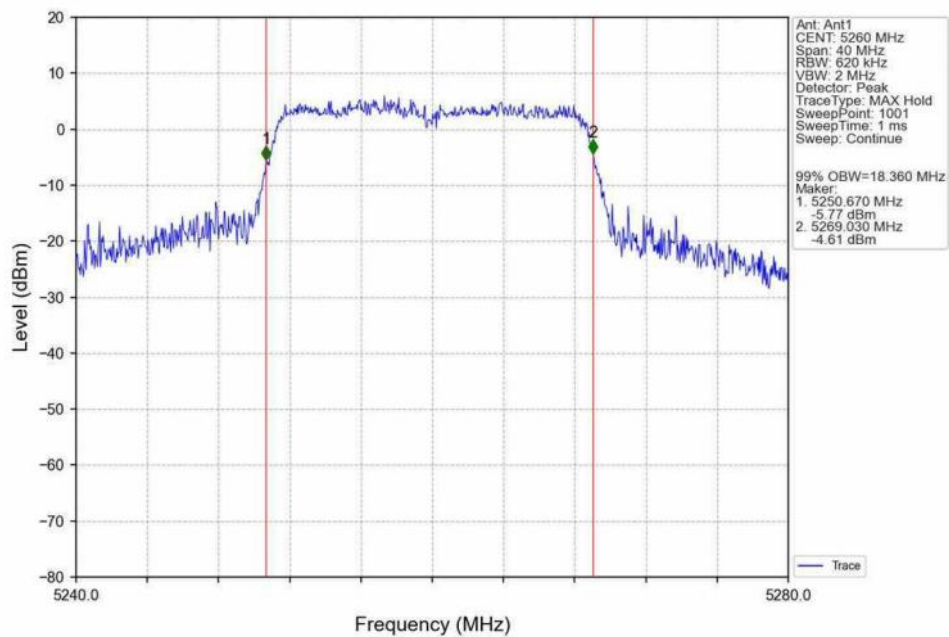
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



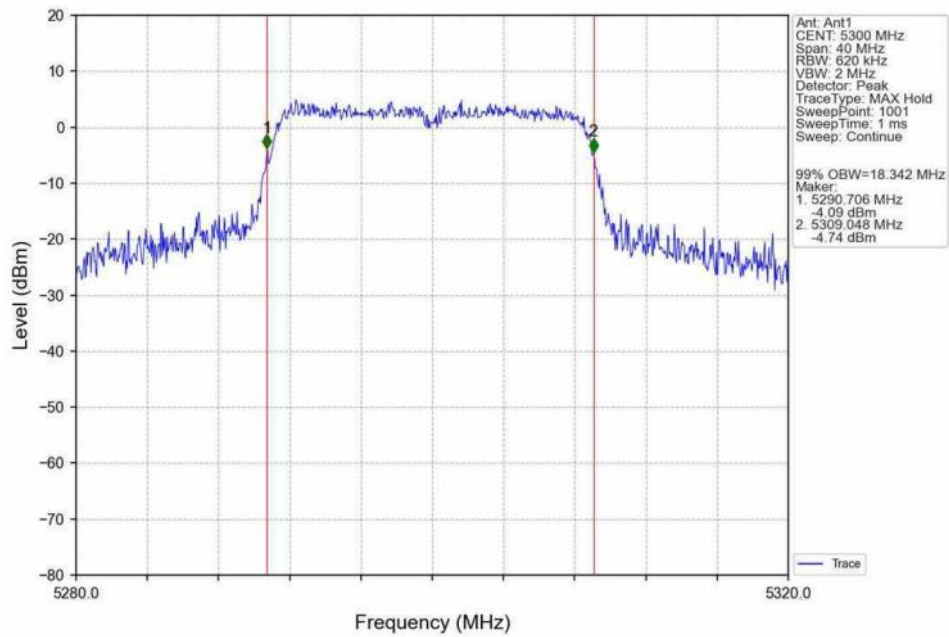
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



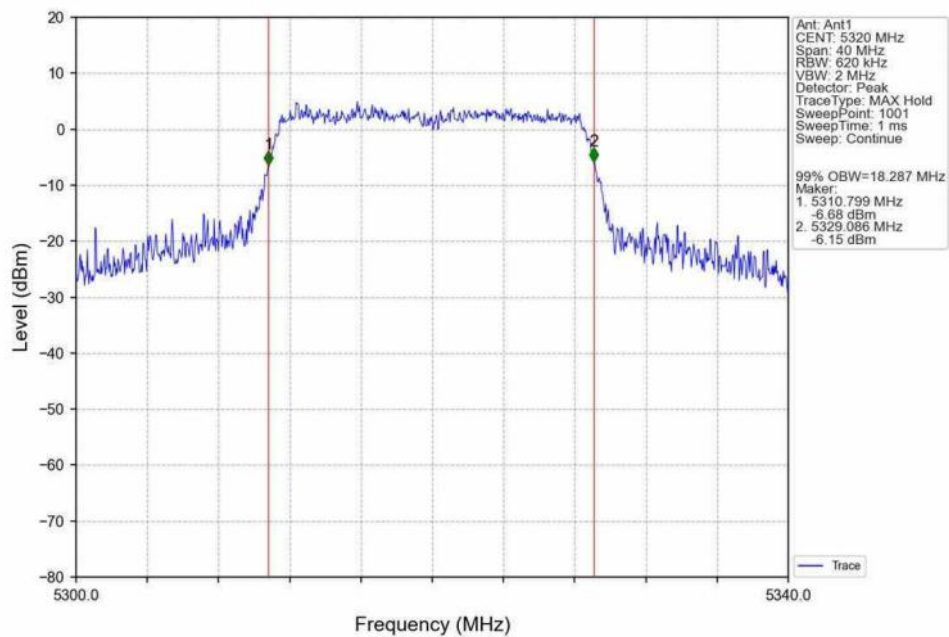
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



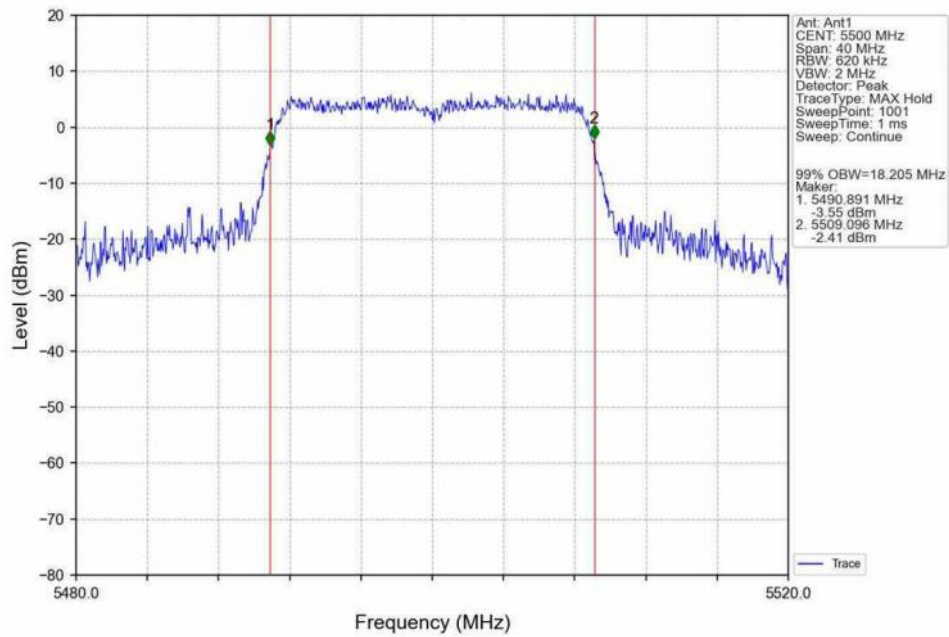
802.11n(HT20) MCH_5300MHz_Ant1_NTNV



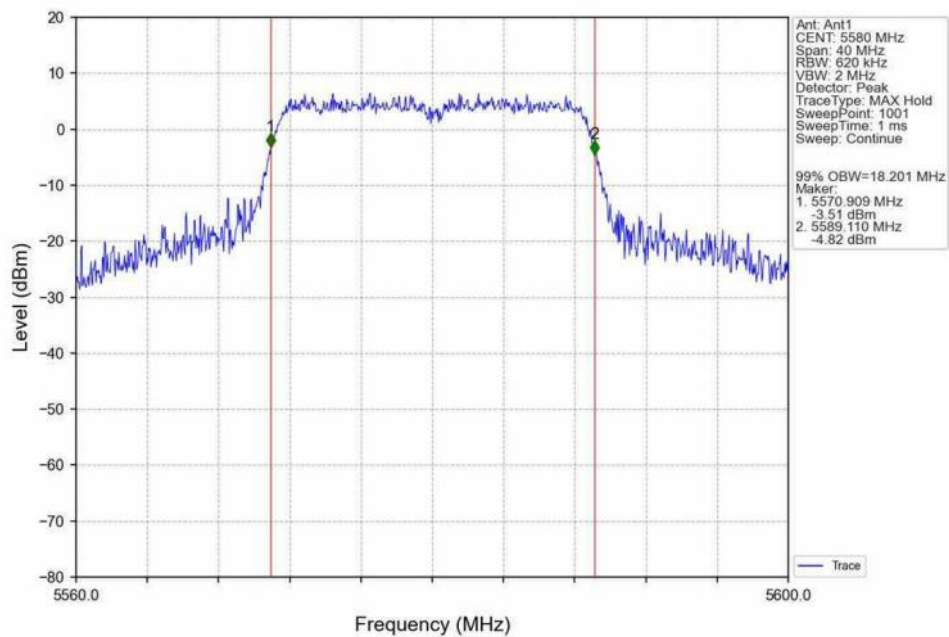
802.11n(HT20) HCH_5320MHz_Ant1_NTNV



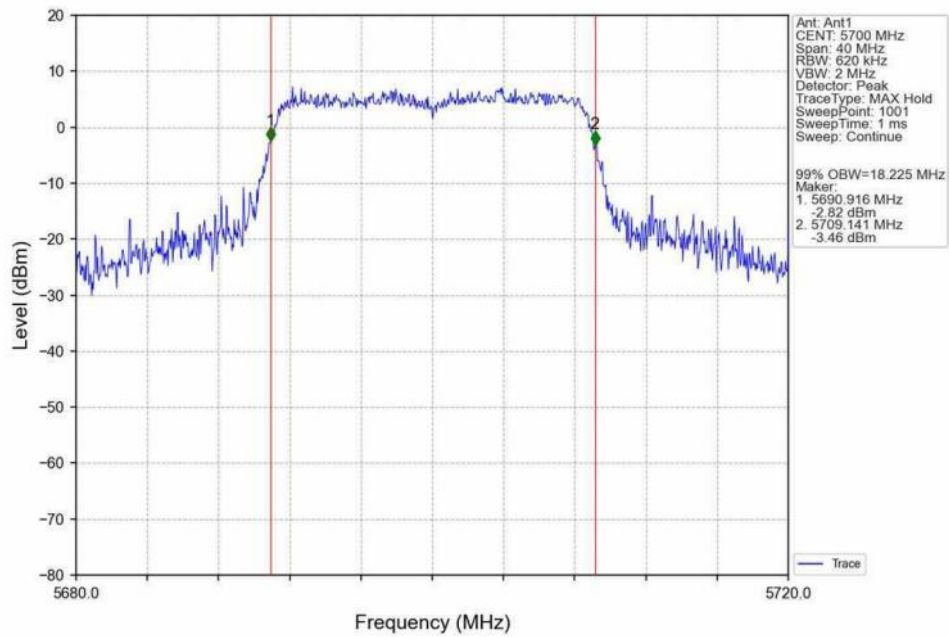
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



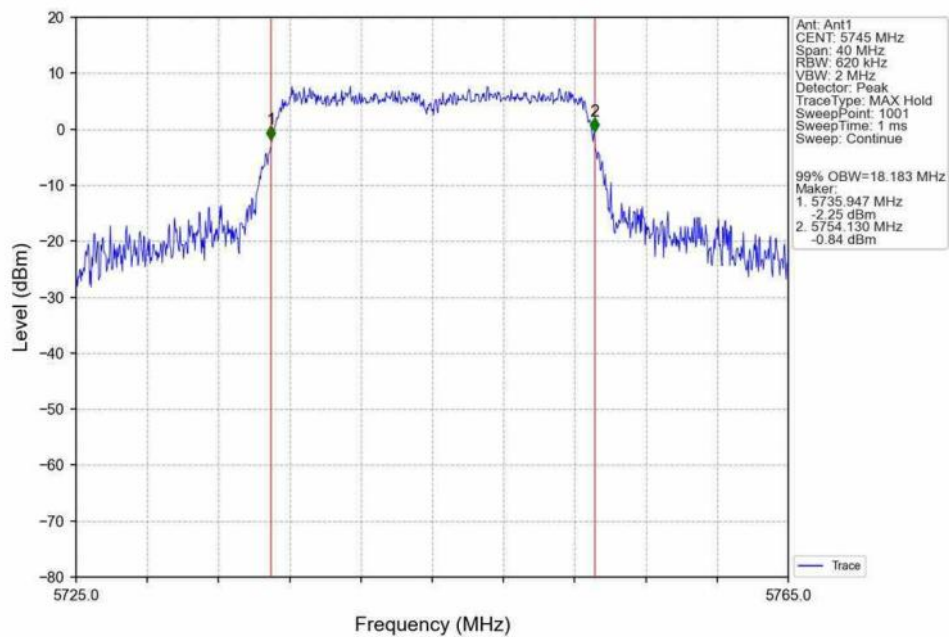
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



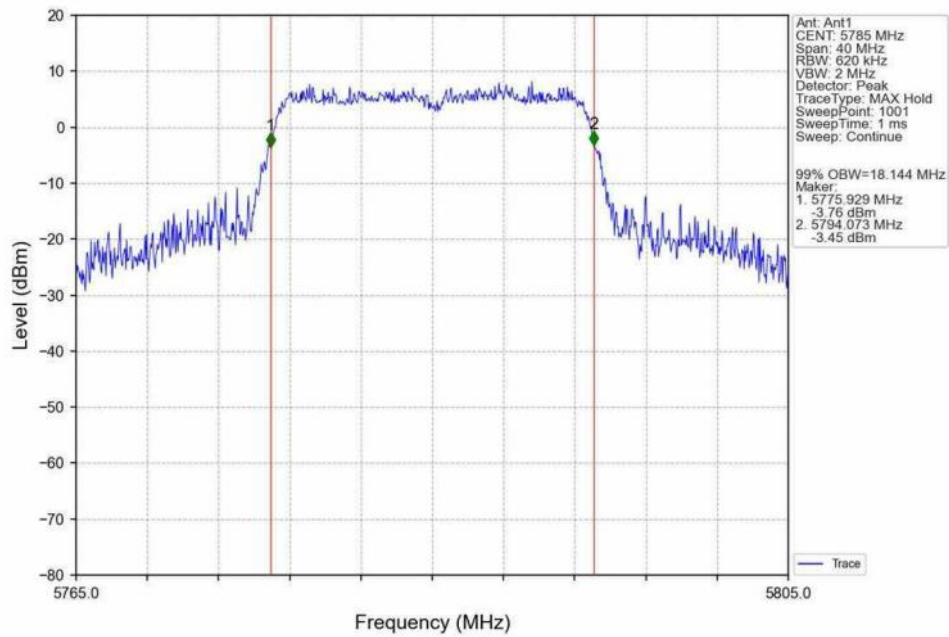
802.11n(HT20) HCH 5700MHz_Ant1_NTNV



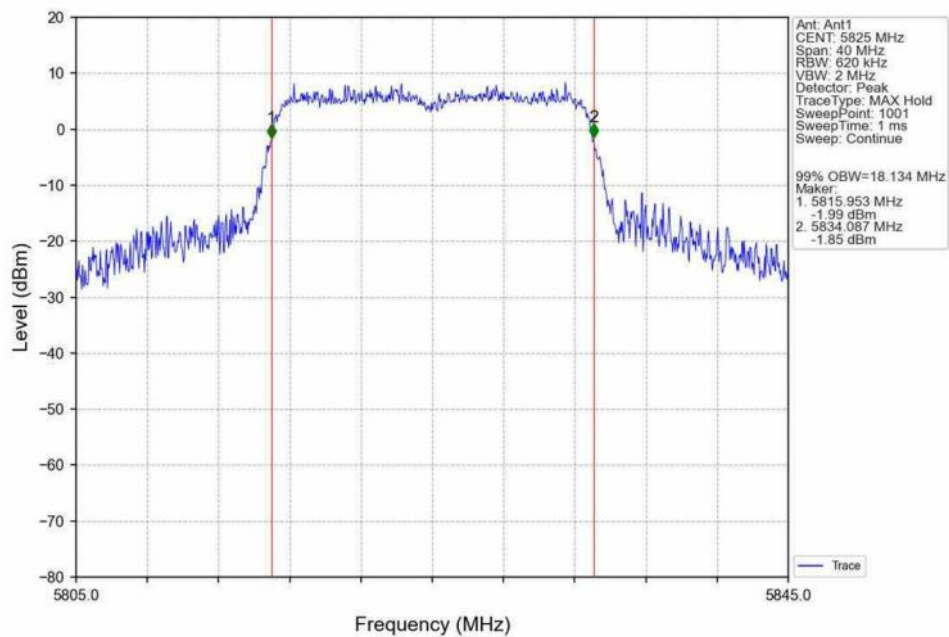
802.11n(HT20) LCH 5745MHz_Ant1_NTNV



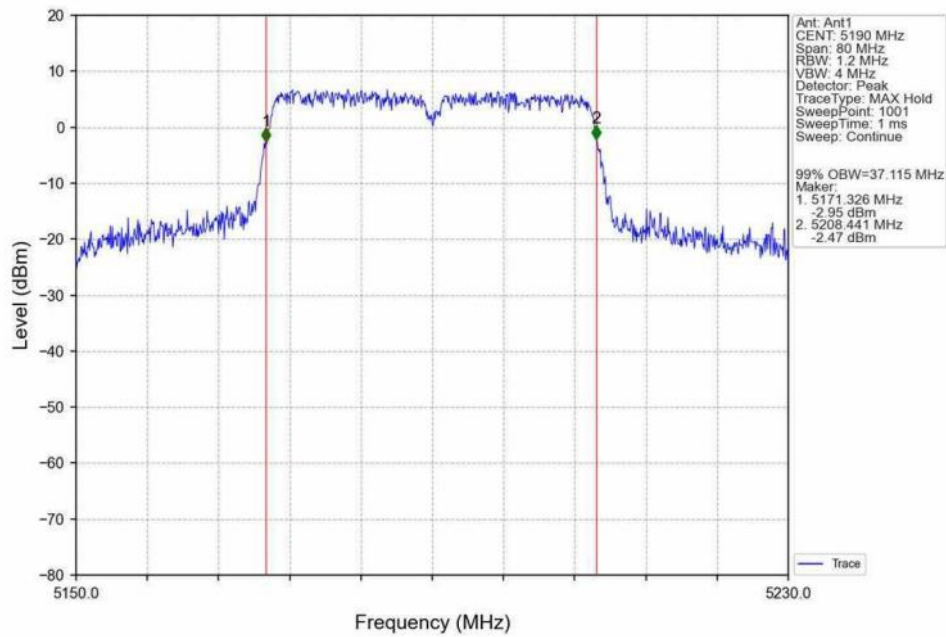
802.11n(HT20) MCH_5785MHz_Ant1_NTNV



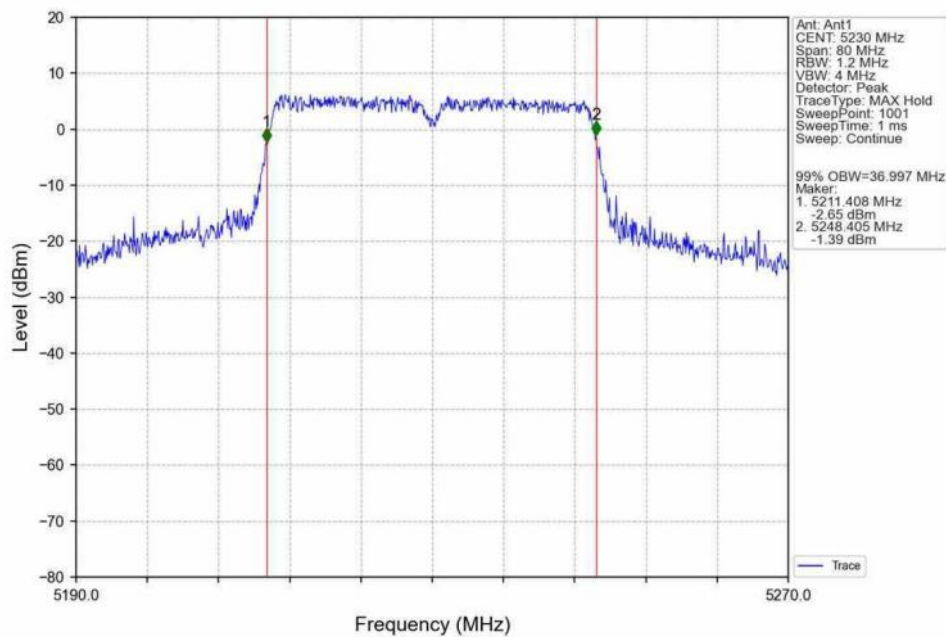
802.11n(HT20) HCH_5825MHz_Ant1_NTNV



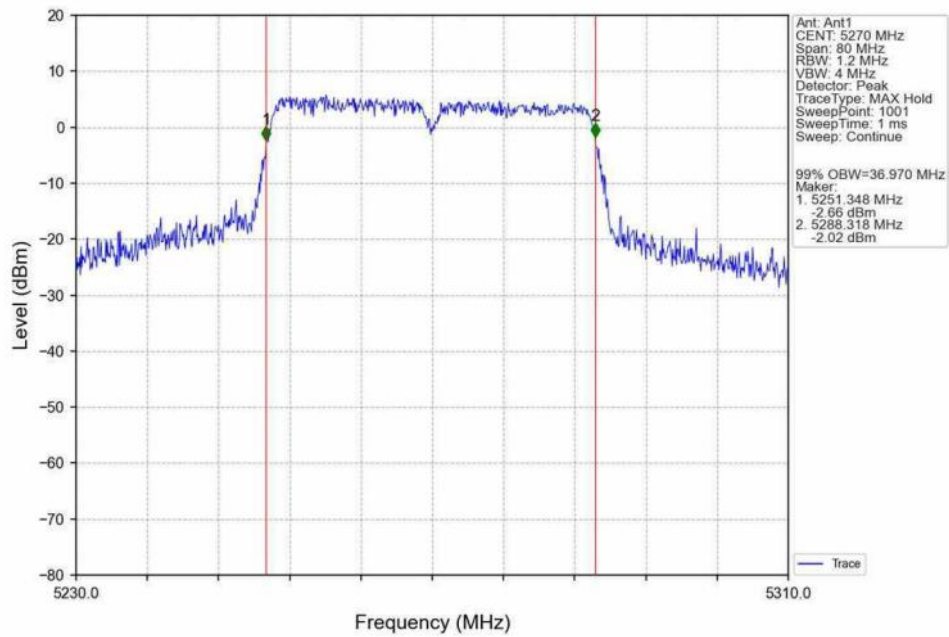
802.11n(HT40) LCH 5190MHz_Ant1_NTNV



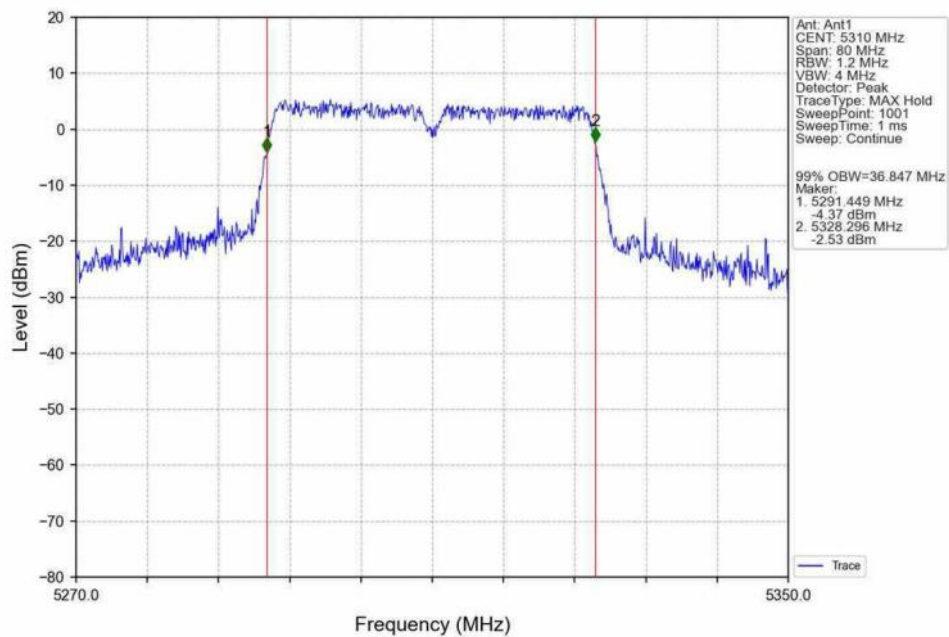
802.11n(HT40) HCH 5230MHz_Ant1_NTNV



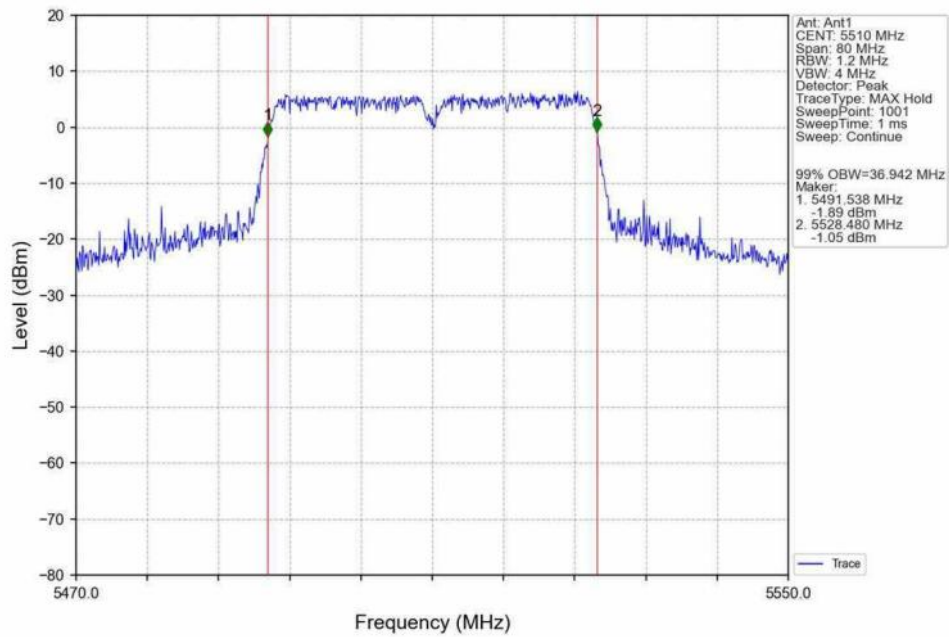
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



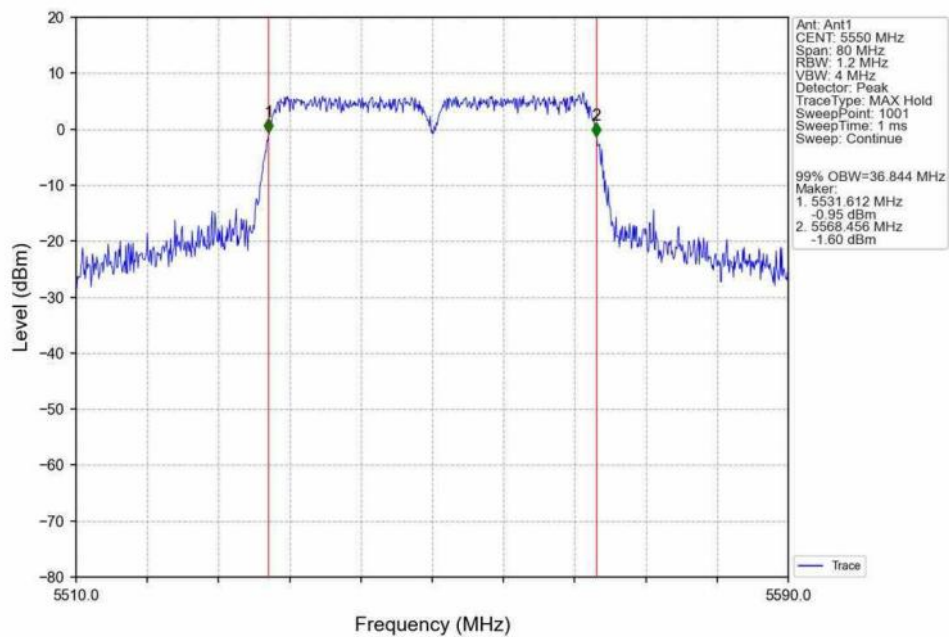
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



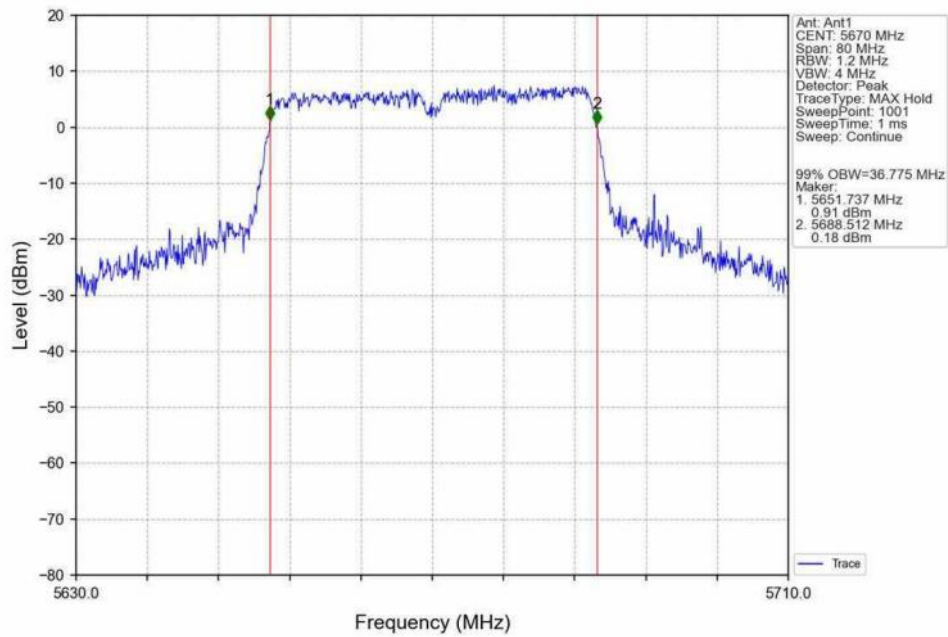
802.11n(HT40) LCH 5510MHz_Ant1_NTNV



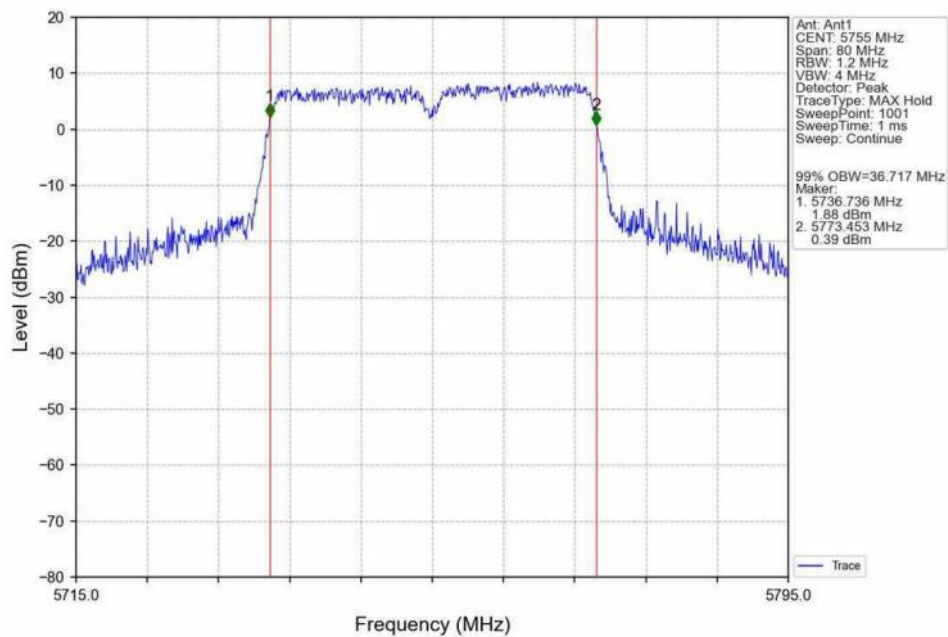
802.11n(HT40) MCH 5550MHz_Ant1_NTNV



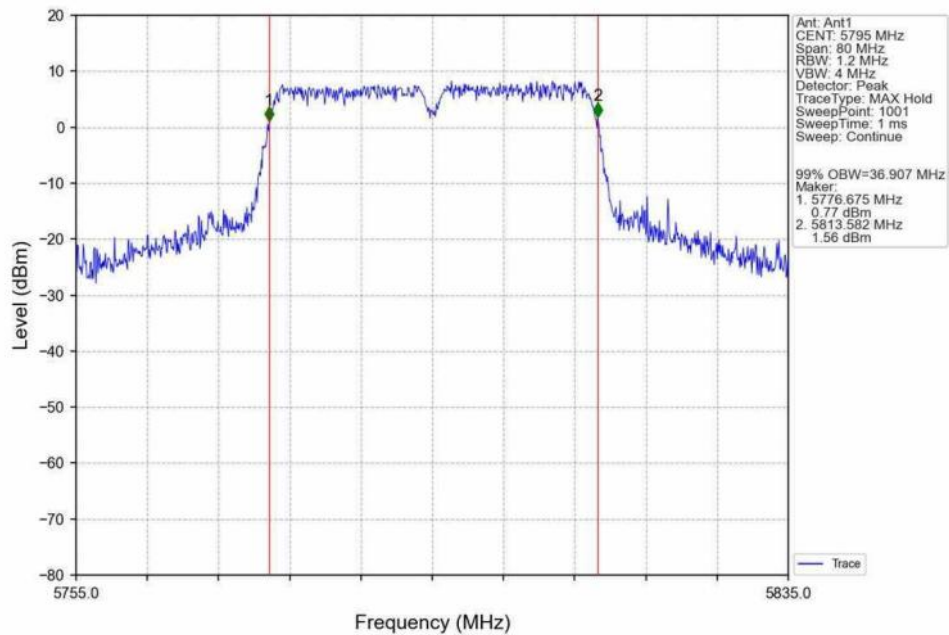
802.11n(HT40) _HCH_ 5670MHz _Ant1_ NTV



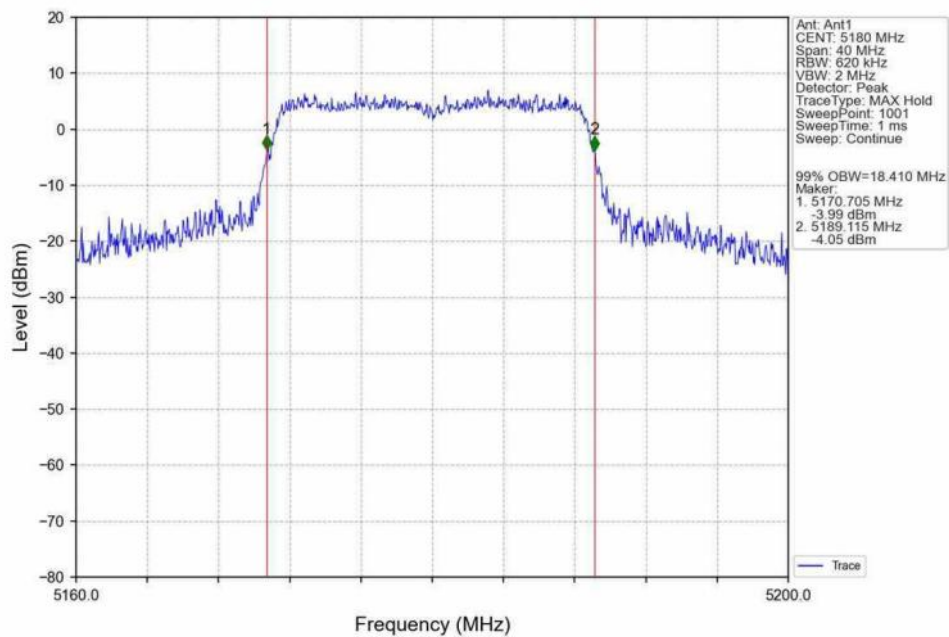
802.11n(HT40) _LCH_ 5755MHz _Ant1_ NTV



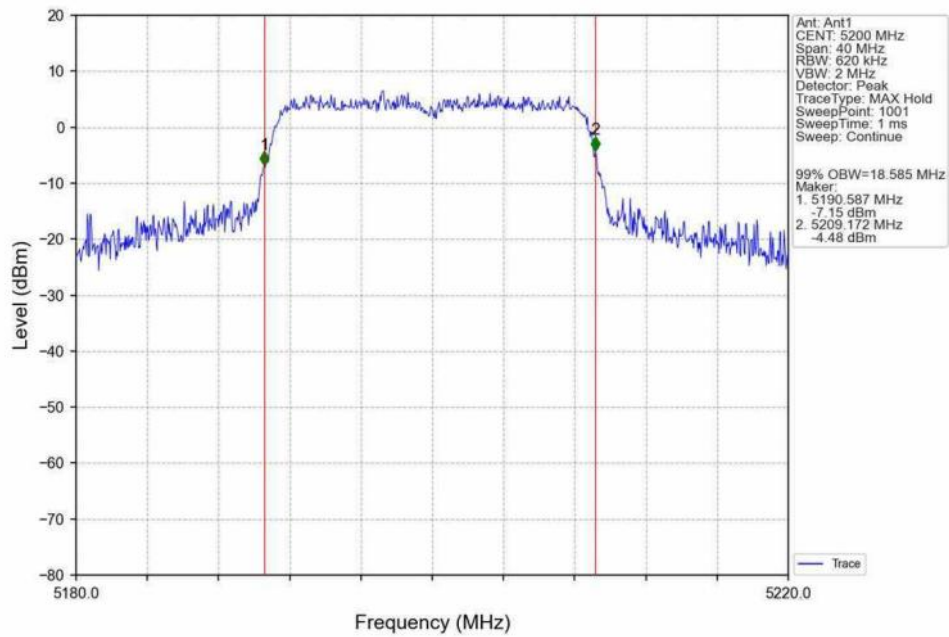
802.11n(HT40) _HCH_ 5795MHz _Ant1_ NTN



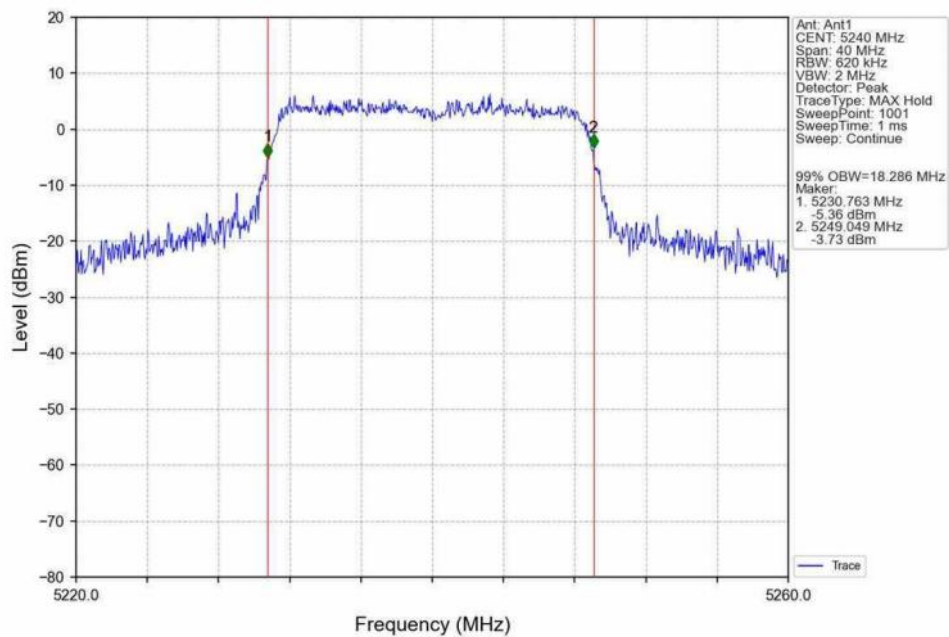
802.11ac(VHT20) _LCH_ 5180MHz _Ant1_ NTN



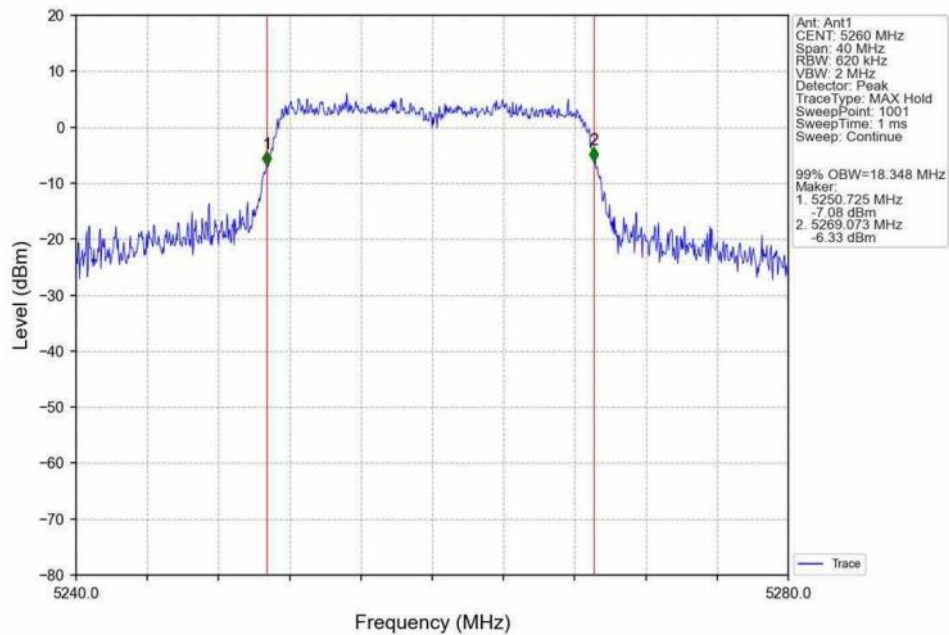
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



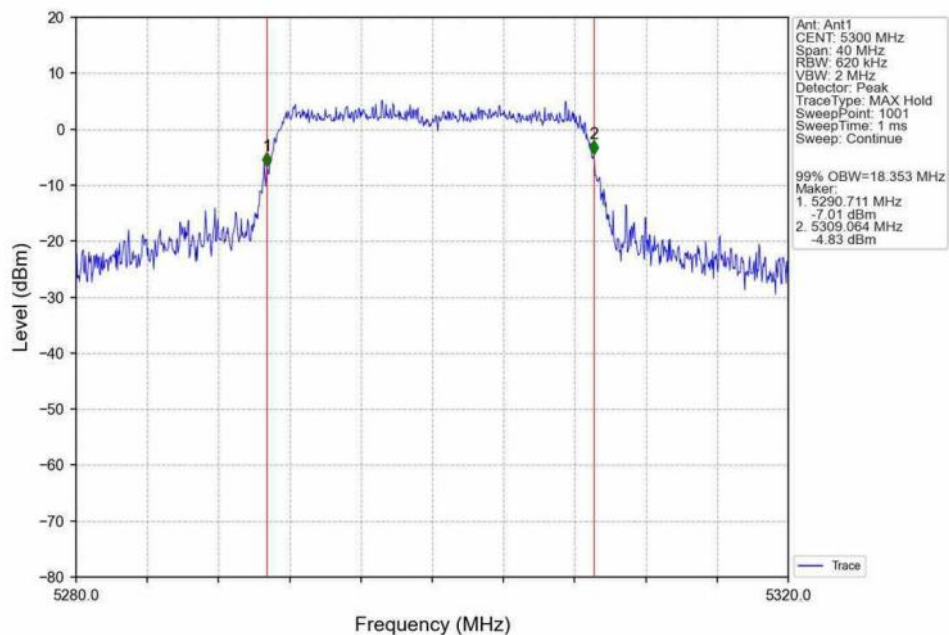
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



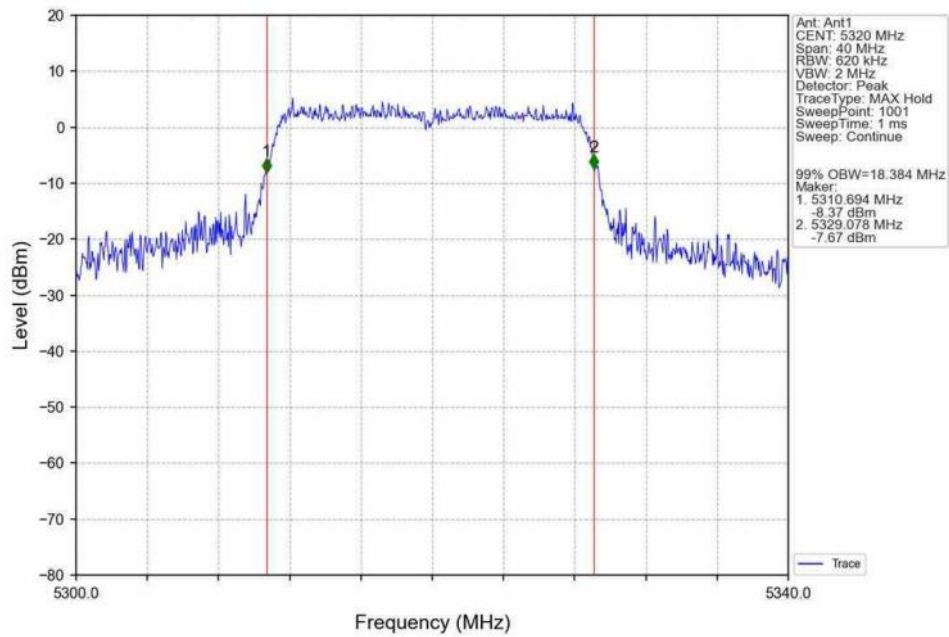
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



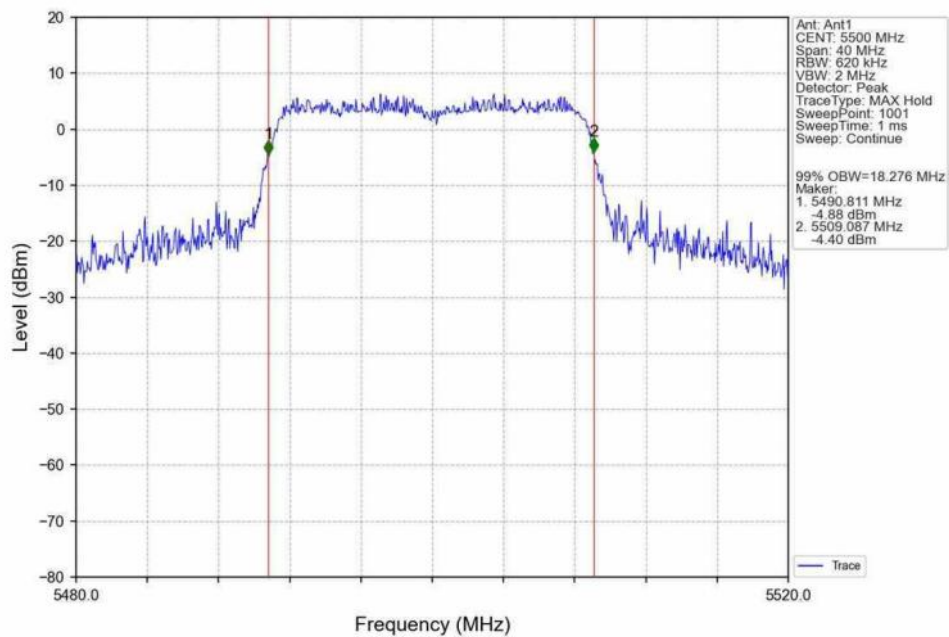
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



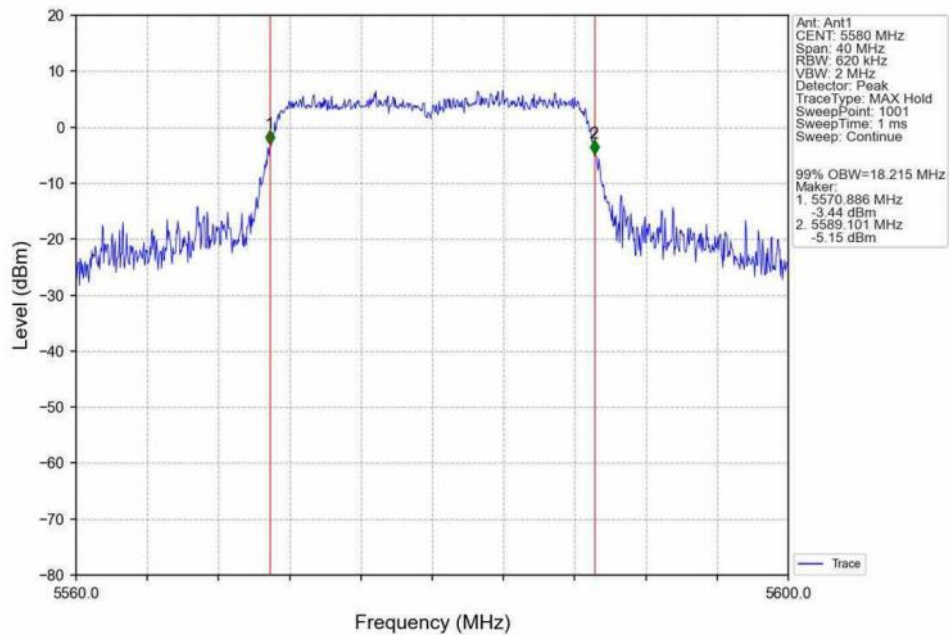
802.11ac(VHT20) HCH_5320MHz_Ant1_NTNV



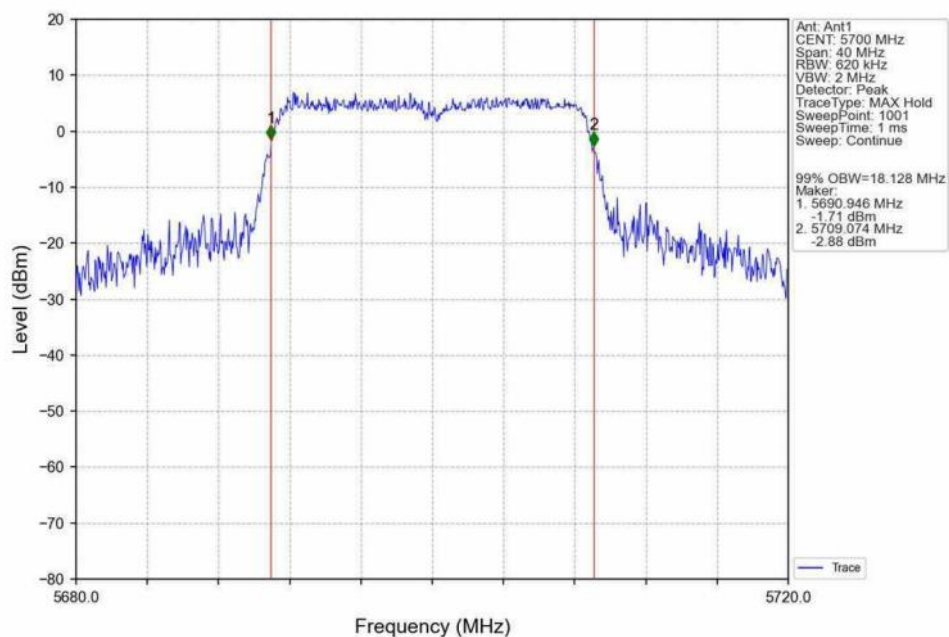
802.11ac(VHT20) LCH_5500MHz_Ant1_NTNV



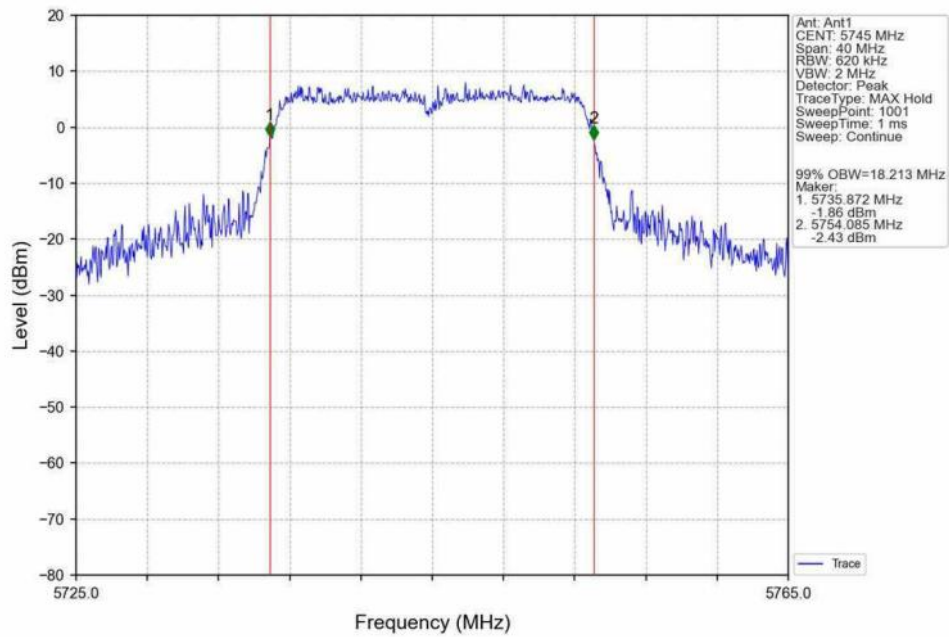
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



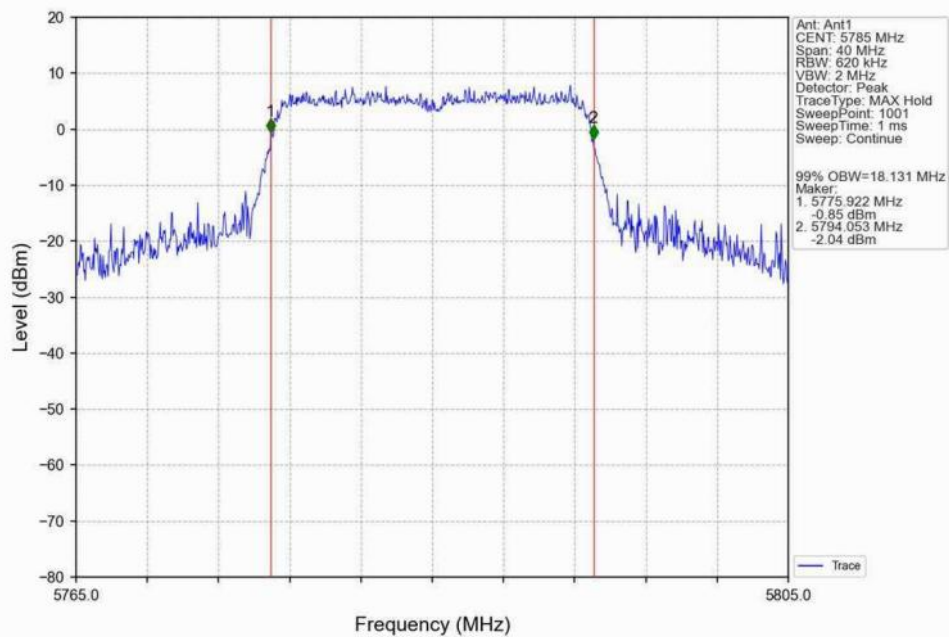
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



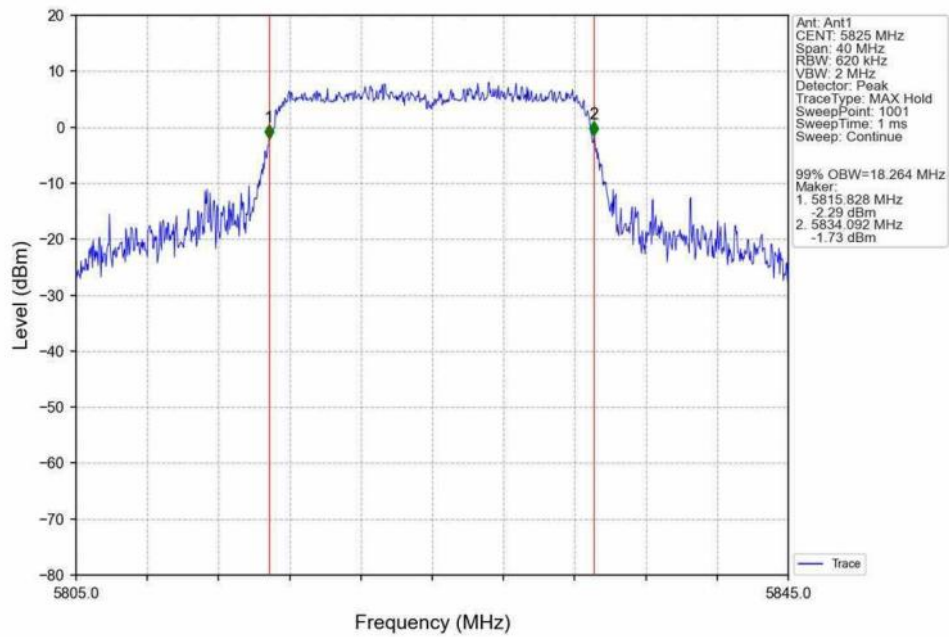
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



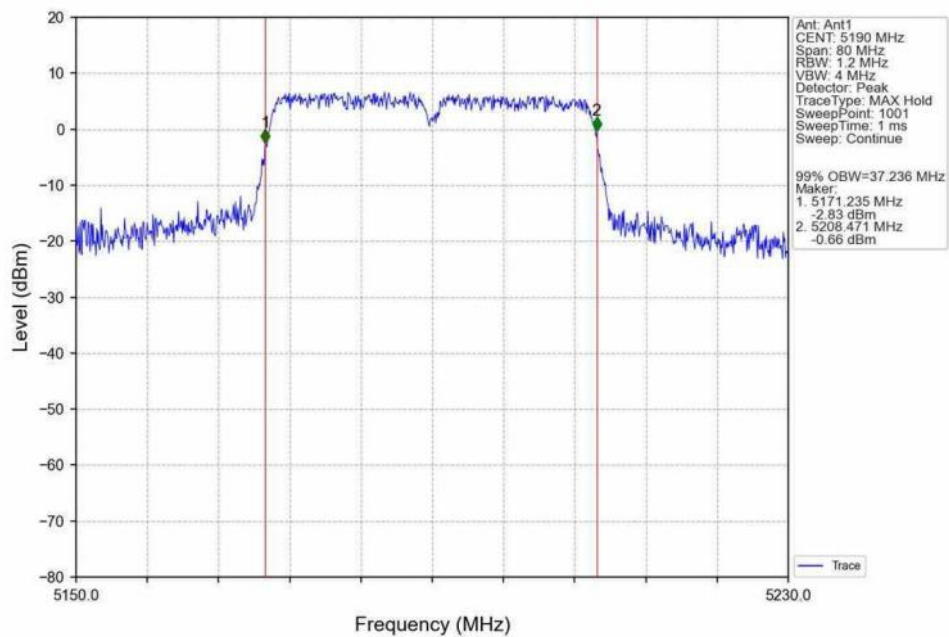
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



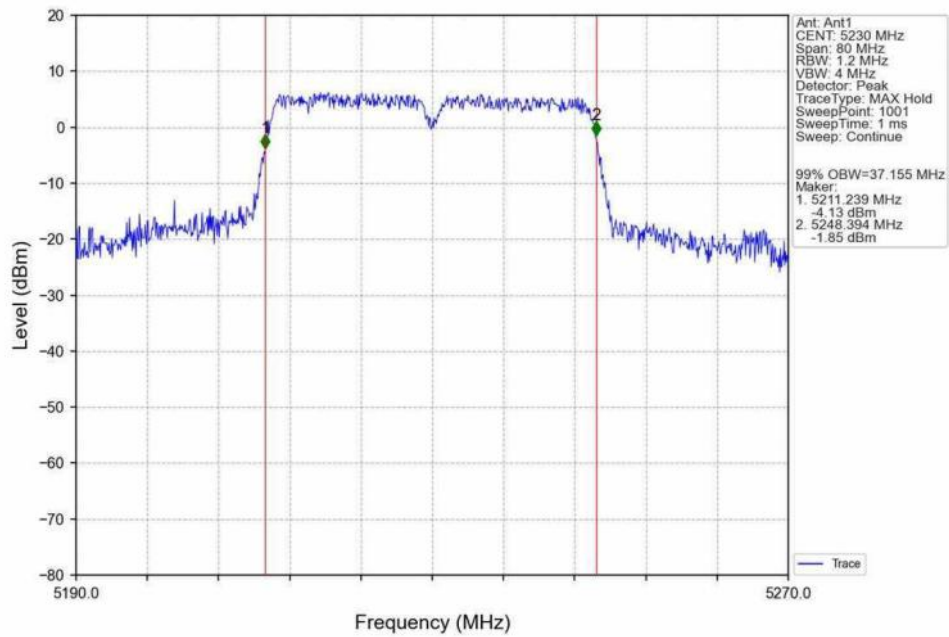
802.11ac(VHT20) HCH_5825MHz_Ant1_NTNV



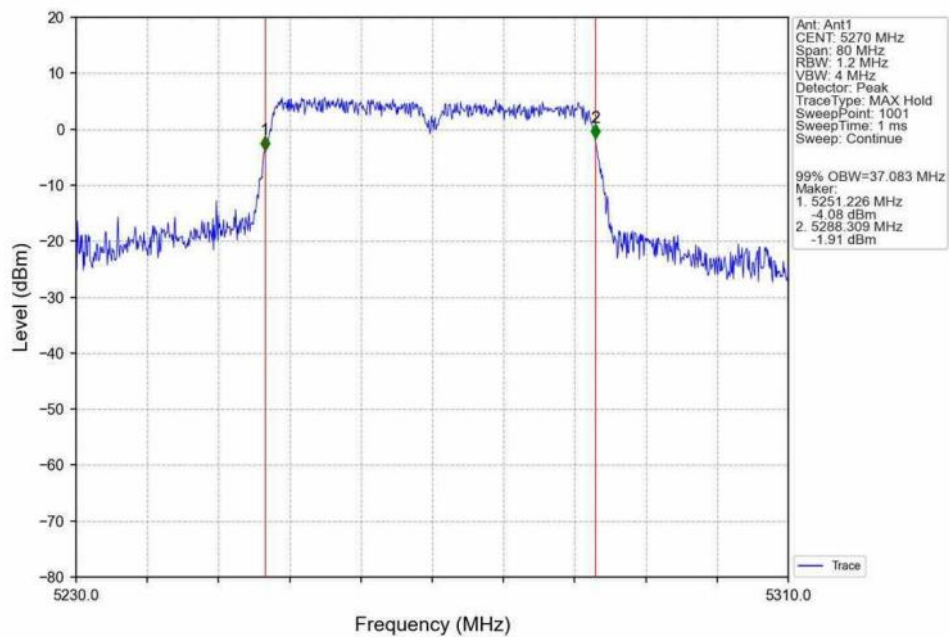
802.11ac(VHT40) LCH_5190MHz_Ant1_NTNV



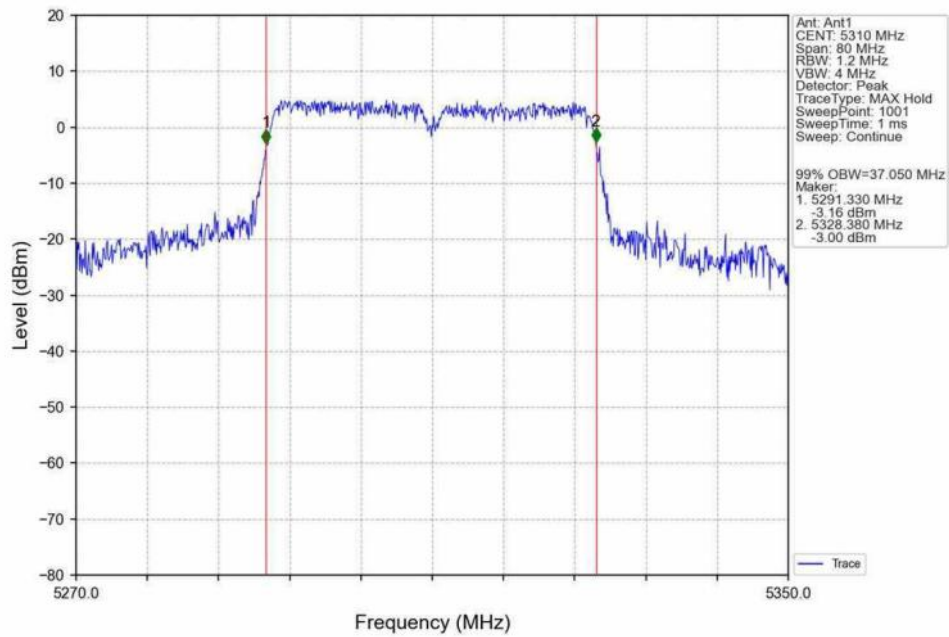
802.11ac(VHT40) HCH 5230MHz_Ant1_NTNV



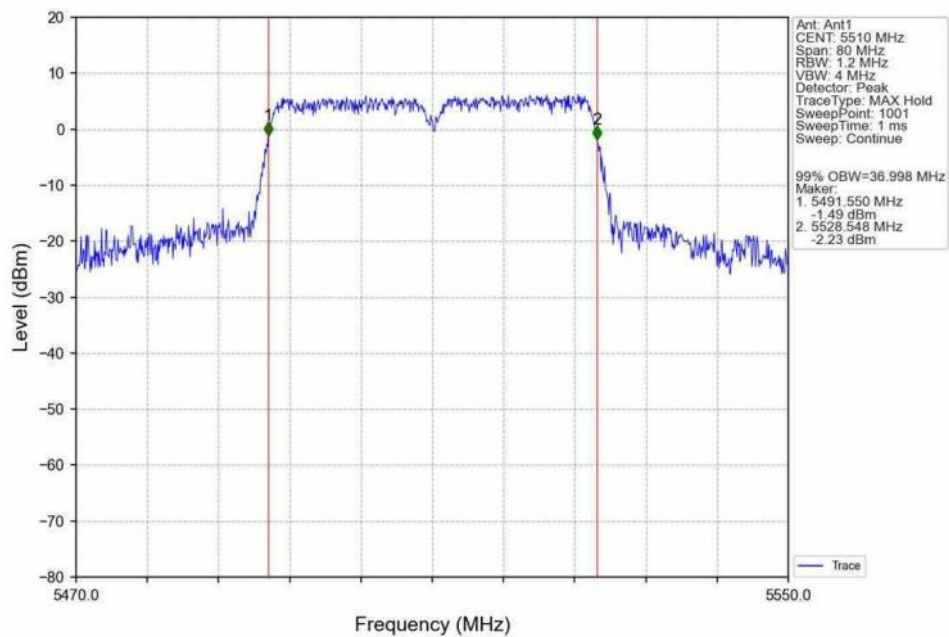
802.11ac(VHT40) LCH 5270MHz_Ant1_NTNV



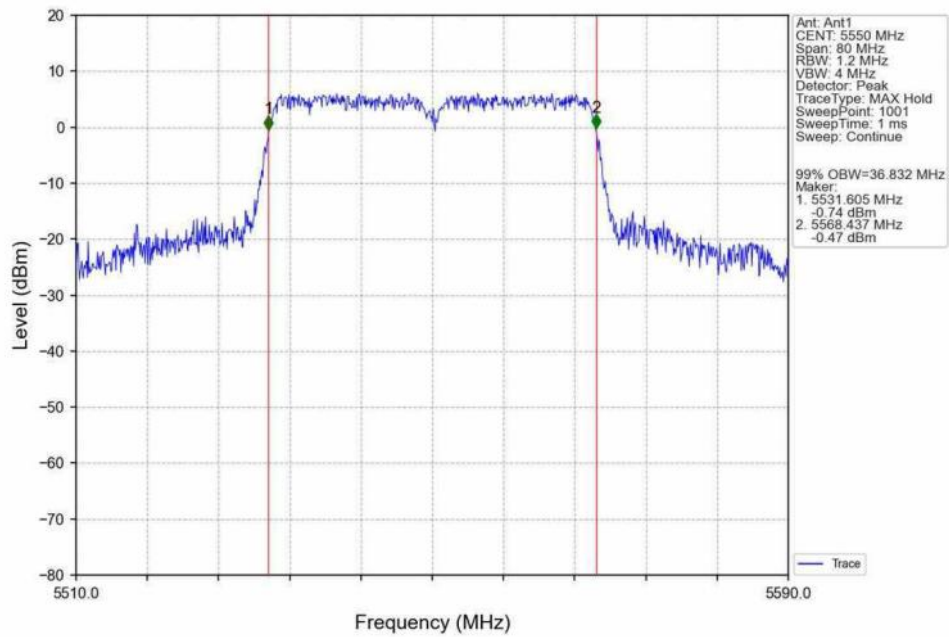
802.11ac(VHT40) HCH_5310MHz_Ant1_NTNV



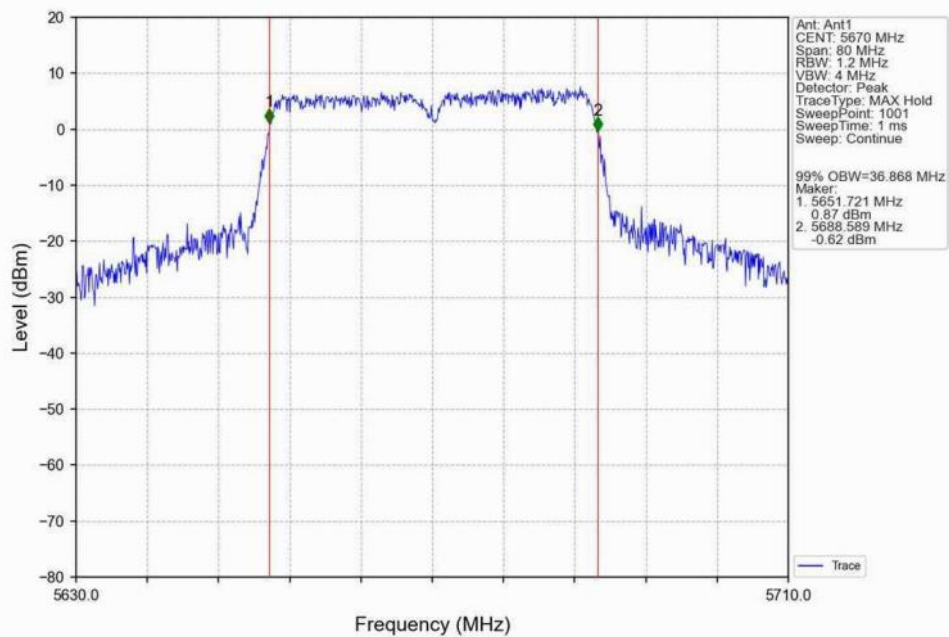
802.11ac(VHT40) LCH_5510MHz_Ant1_NTNV



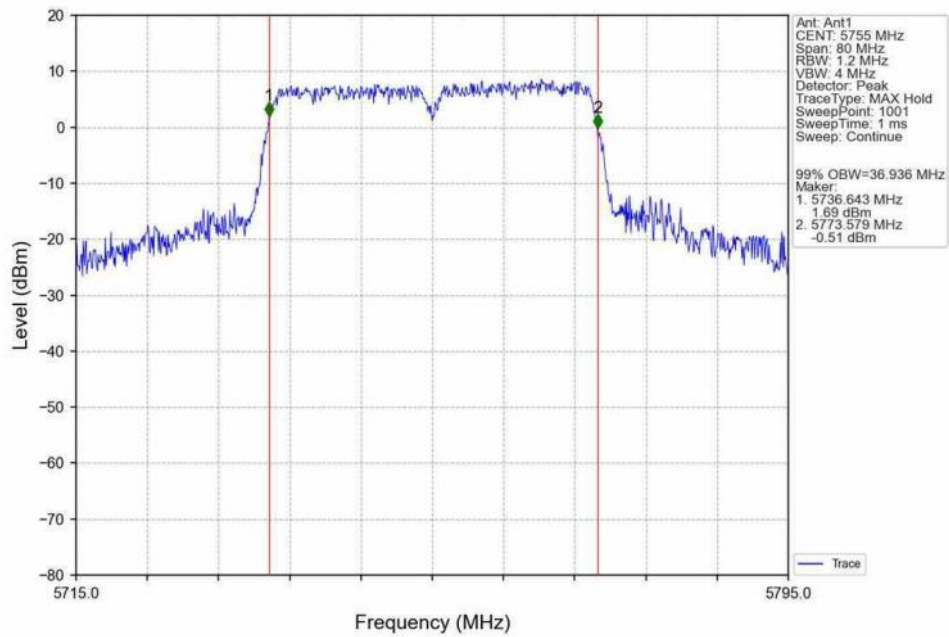
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



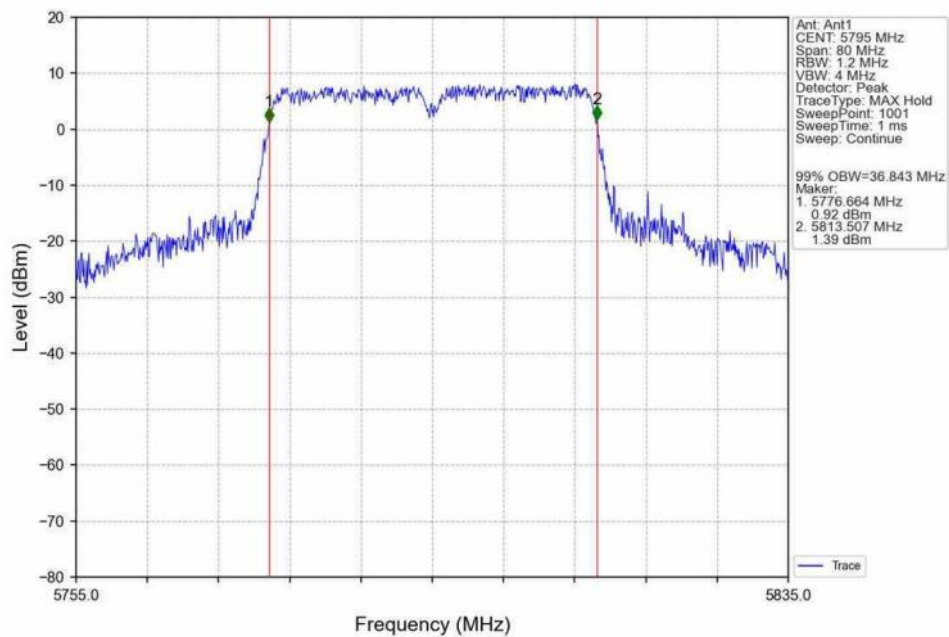
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



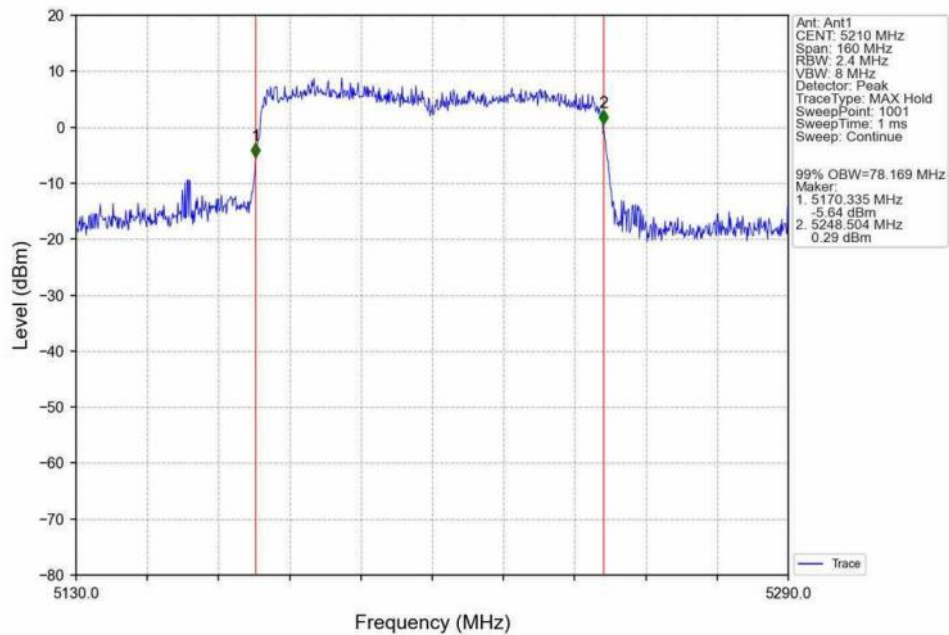
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



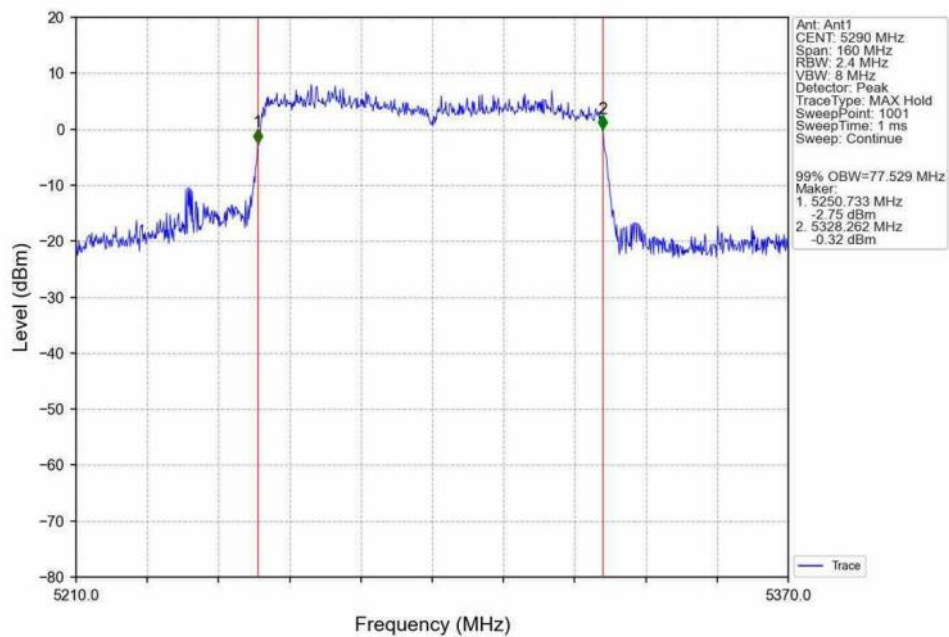
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



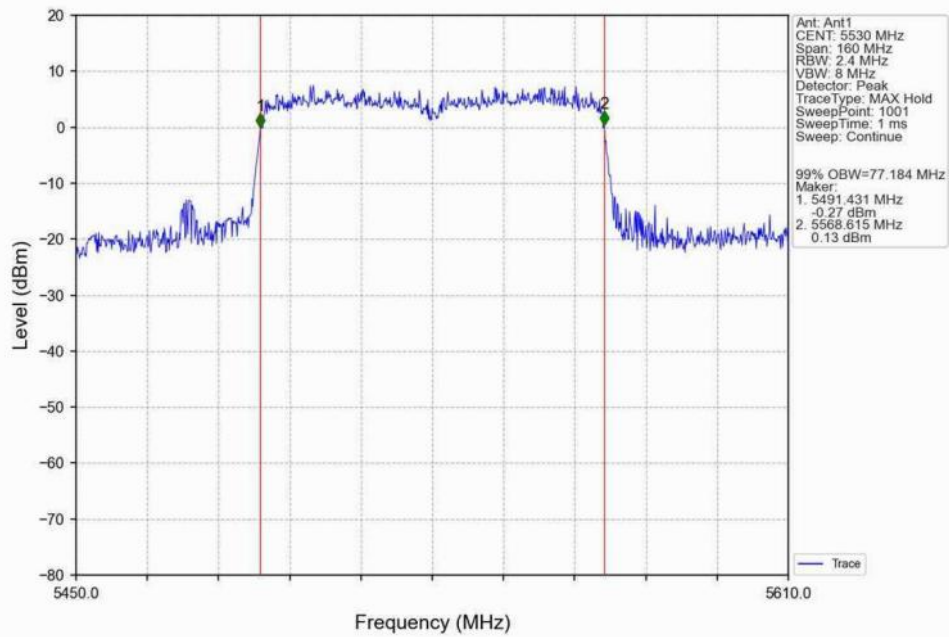
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



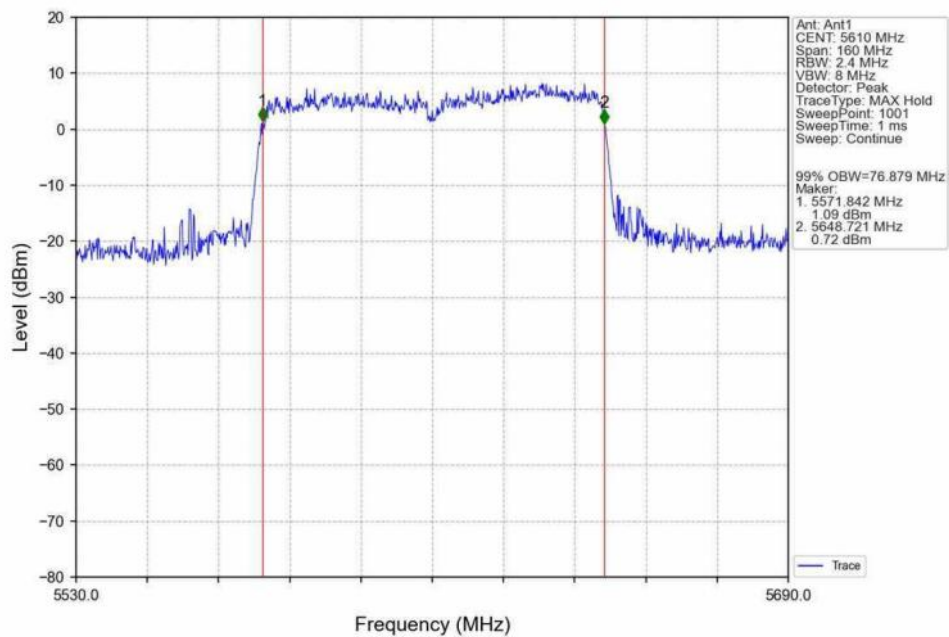
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV

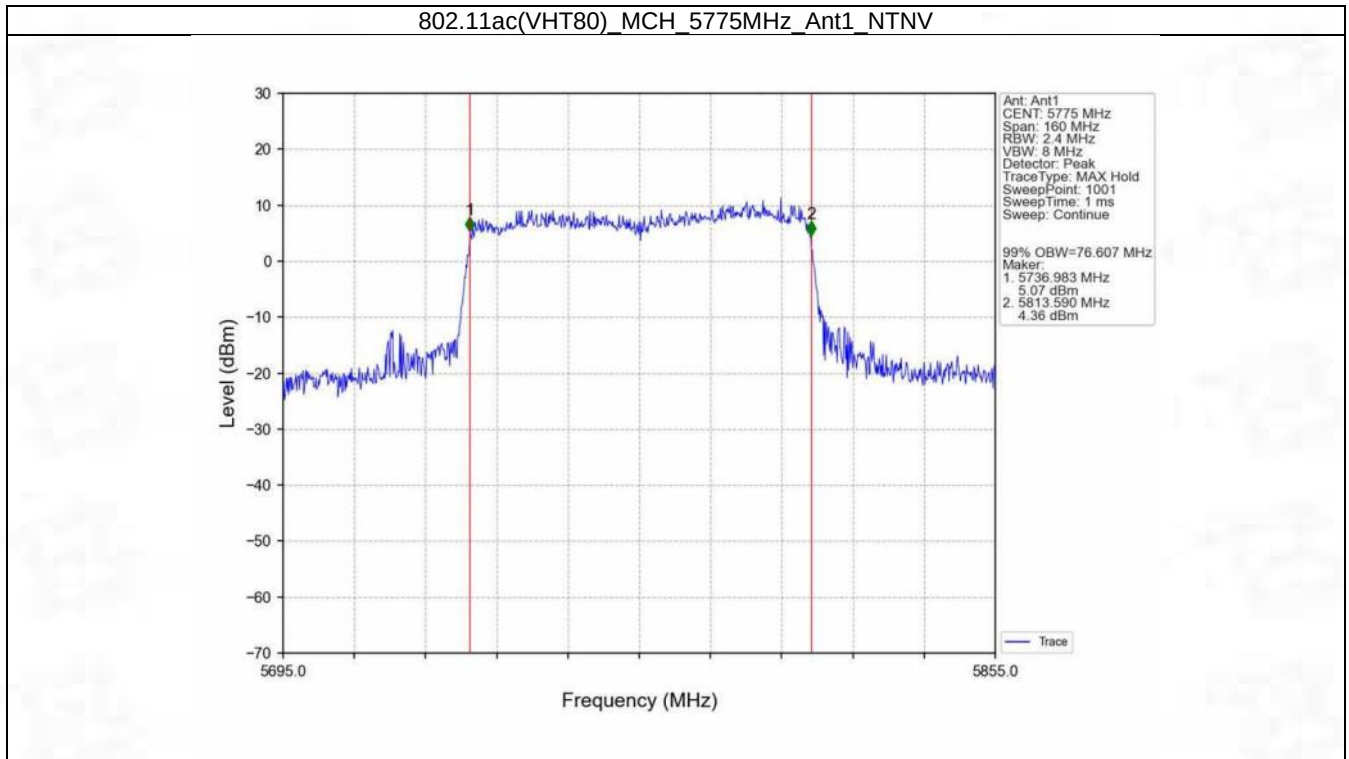


802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV

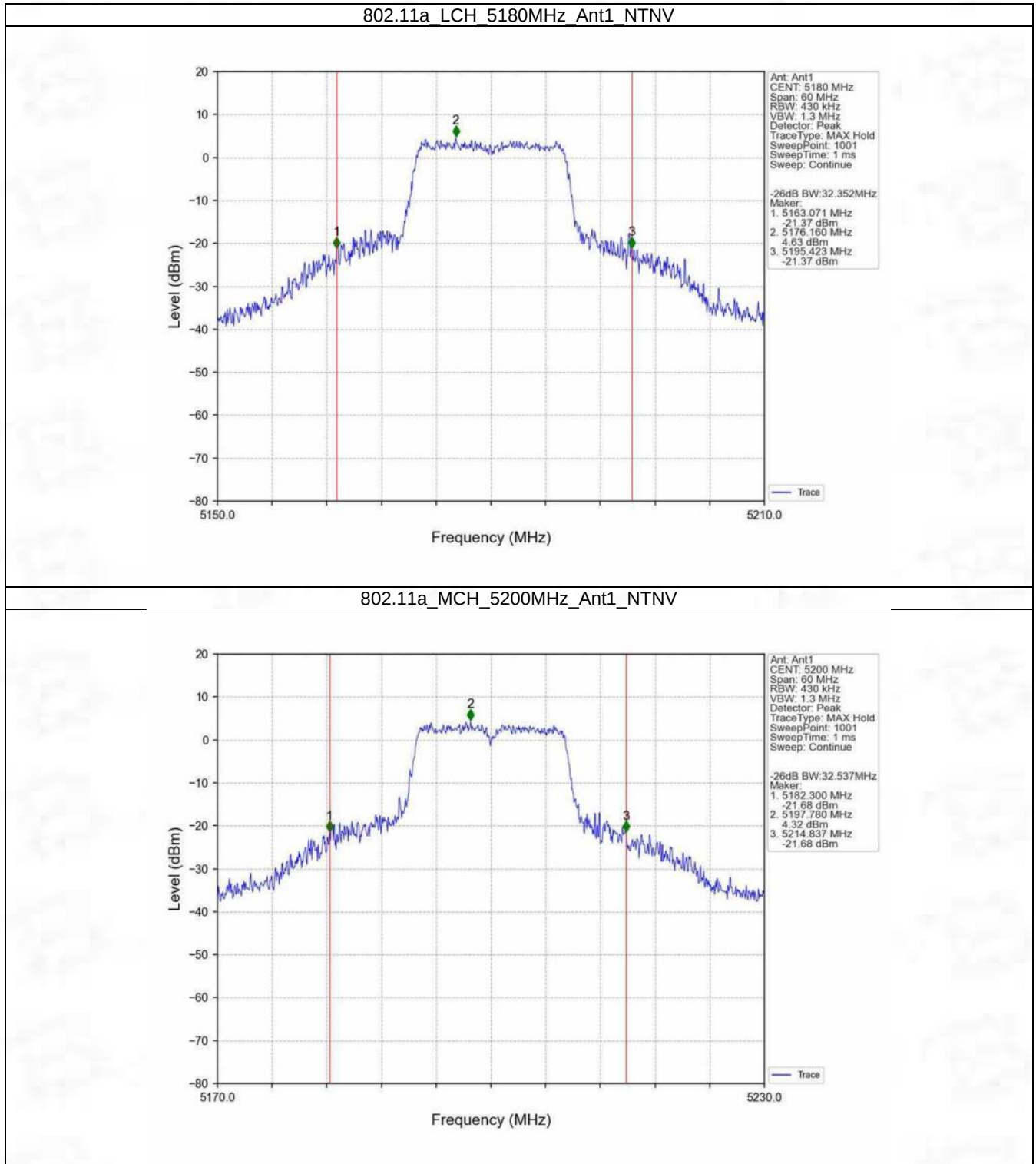


802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV

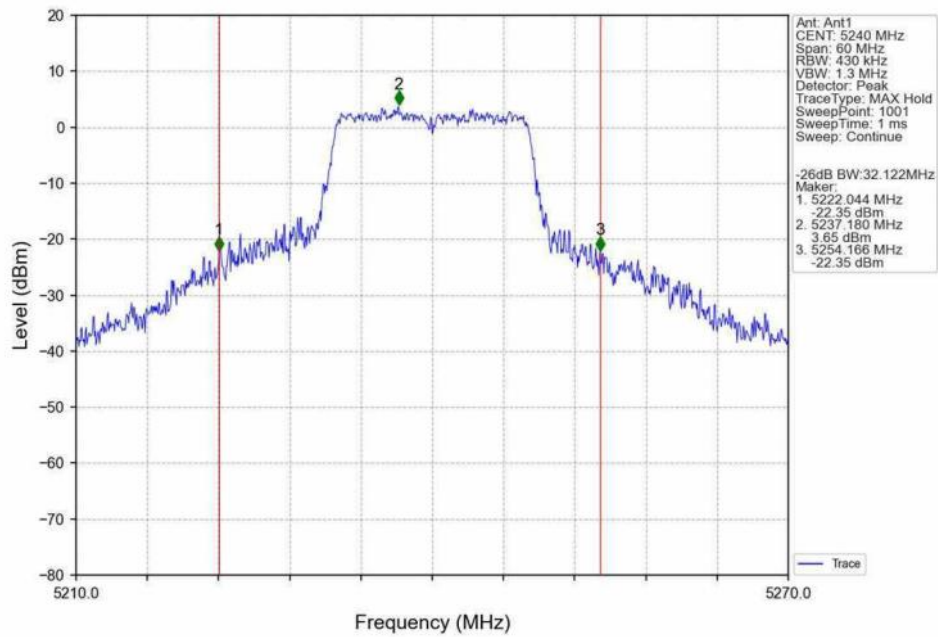




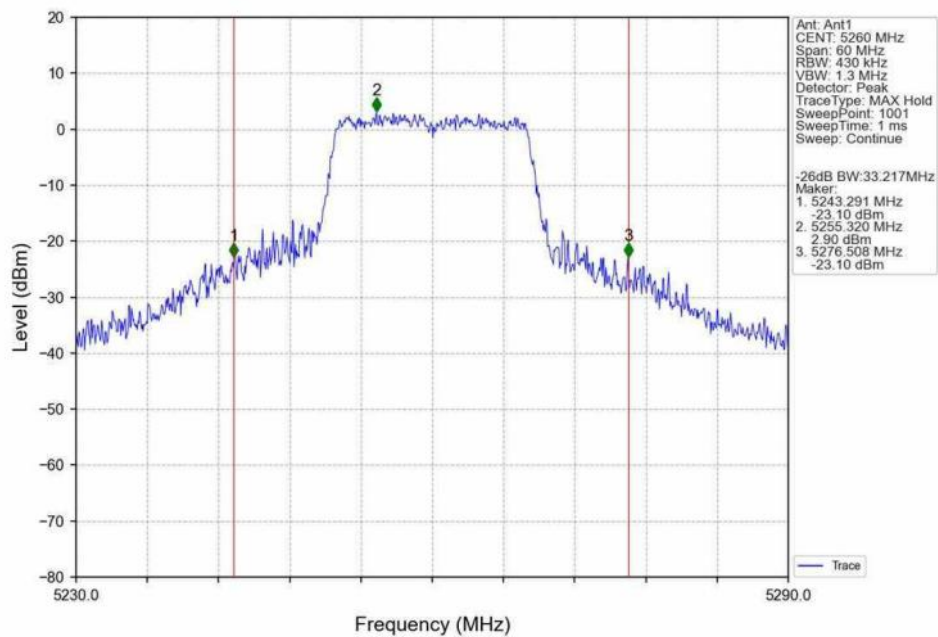
2.2.2 26dB BW



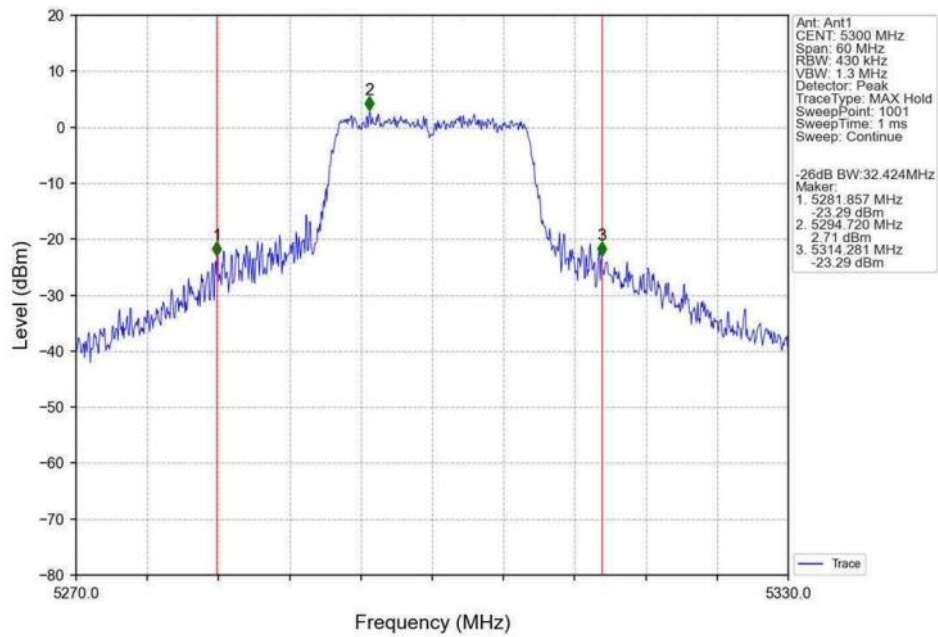
802.11a_HCH_5240MHz_Ant1_NTNV



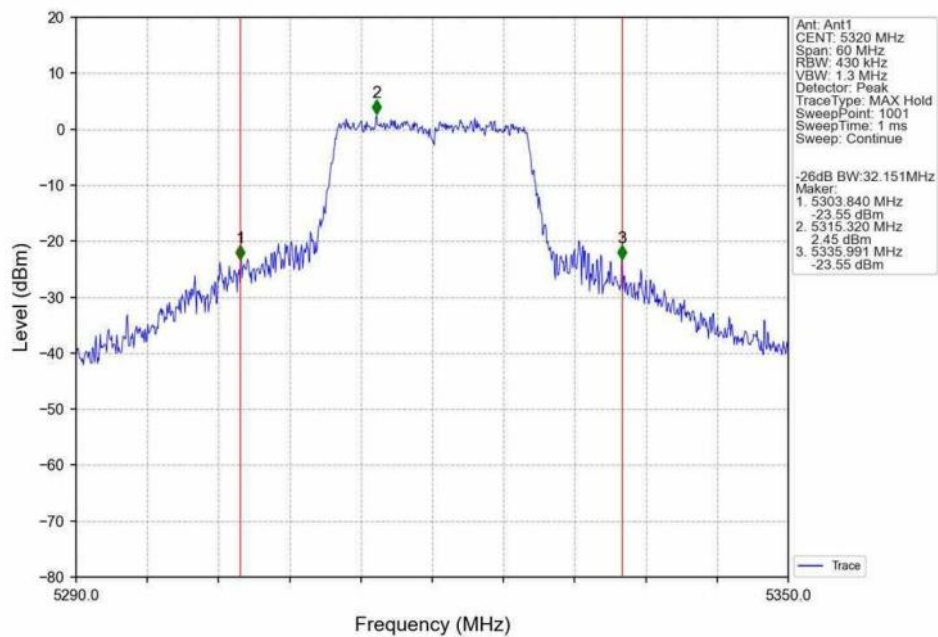
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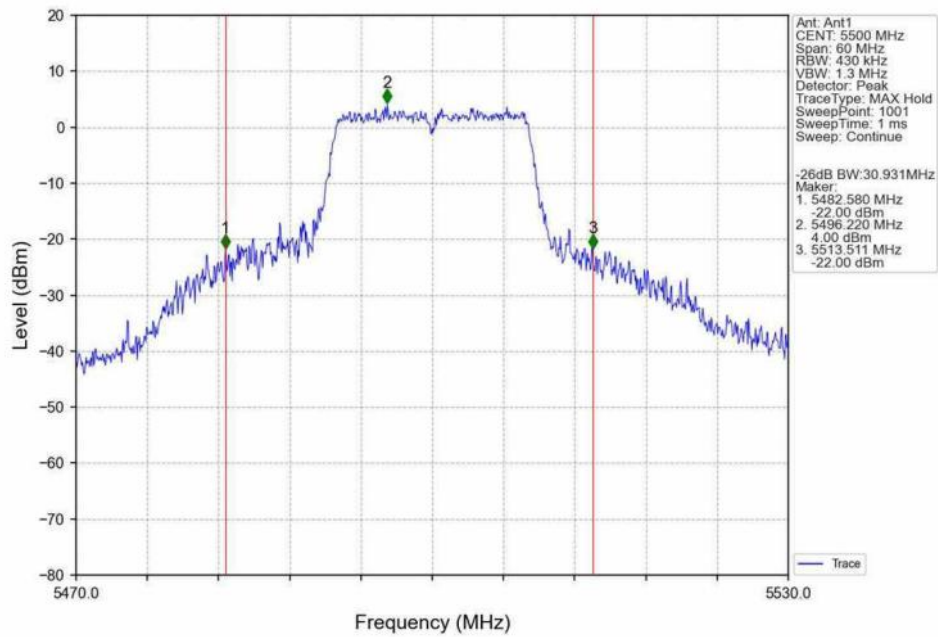
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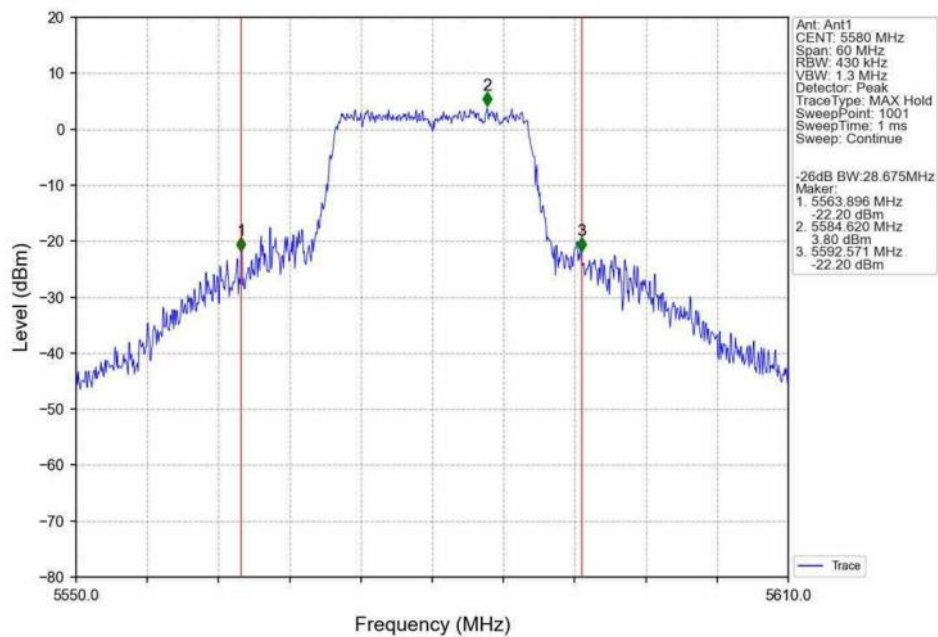
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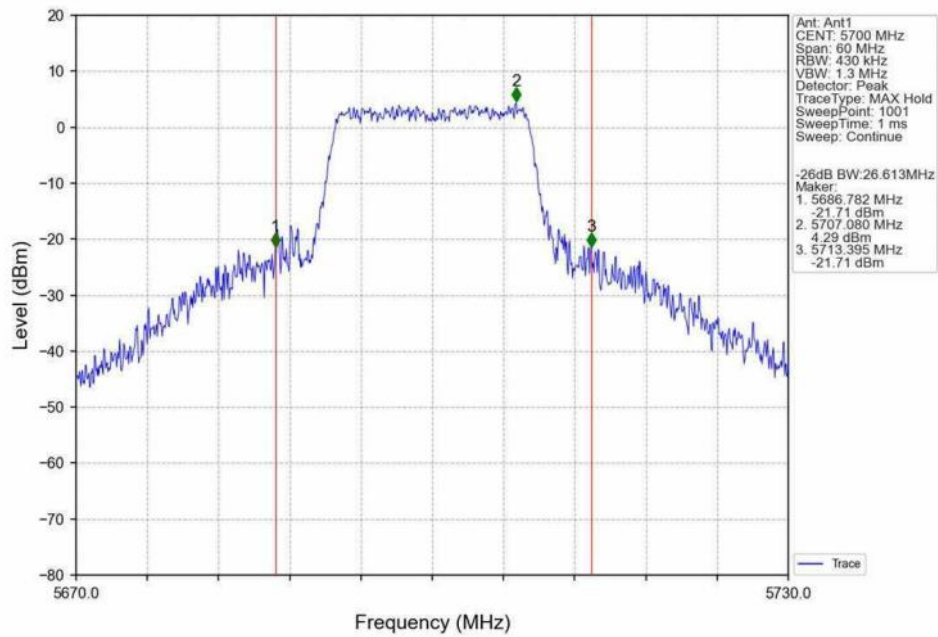
802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



802.11a_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

