

APPENDIX A3

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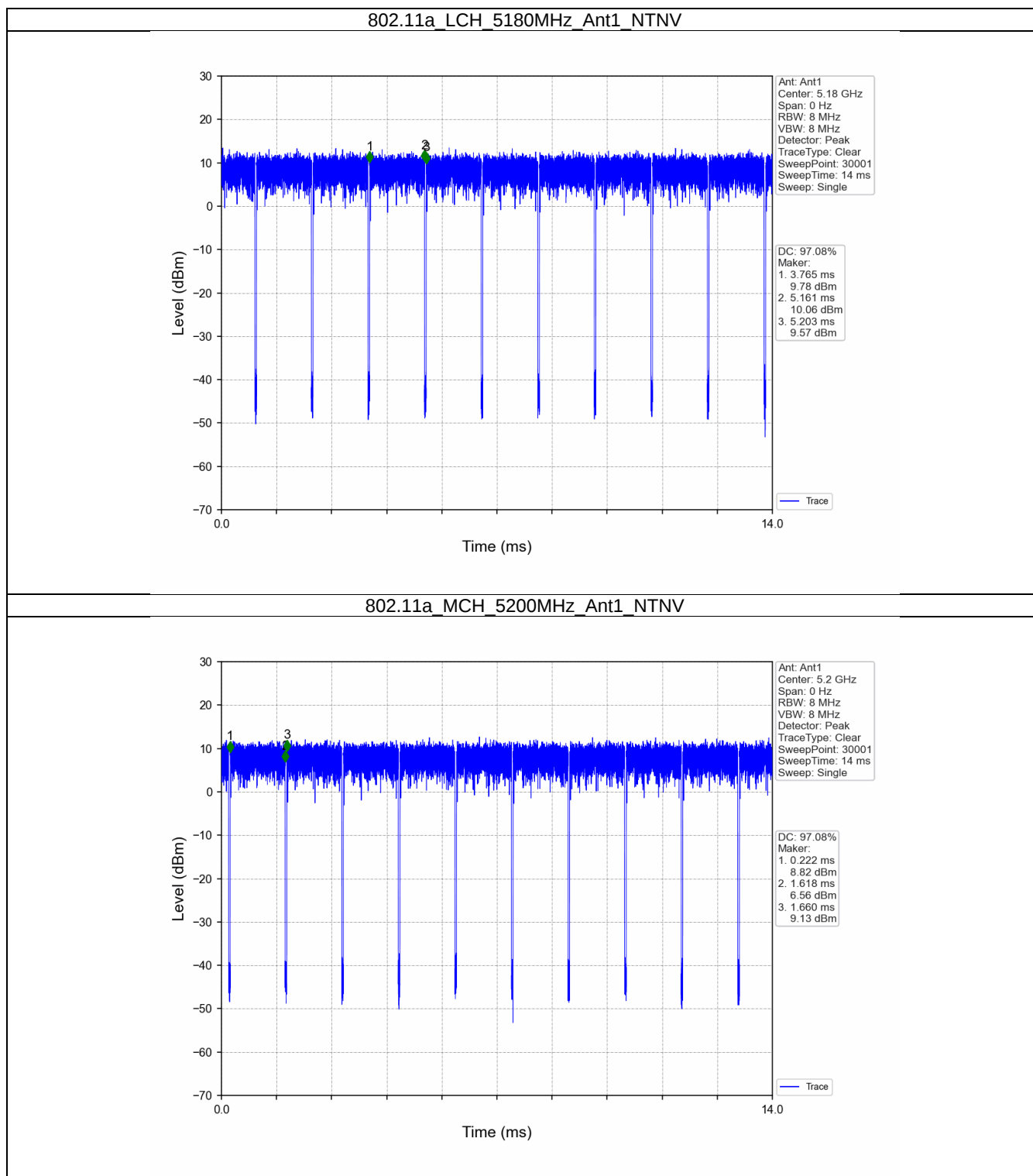
1. Duty Cycle

1.1 Ant1

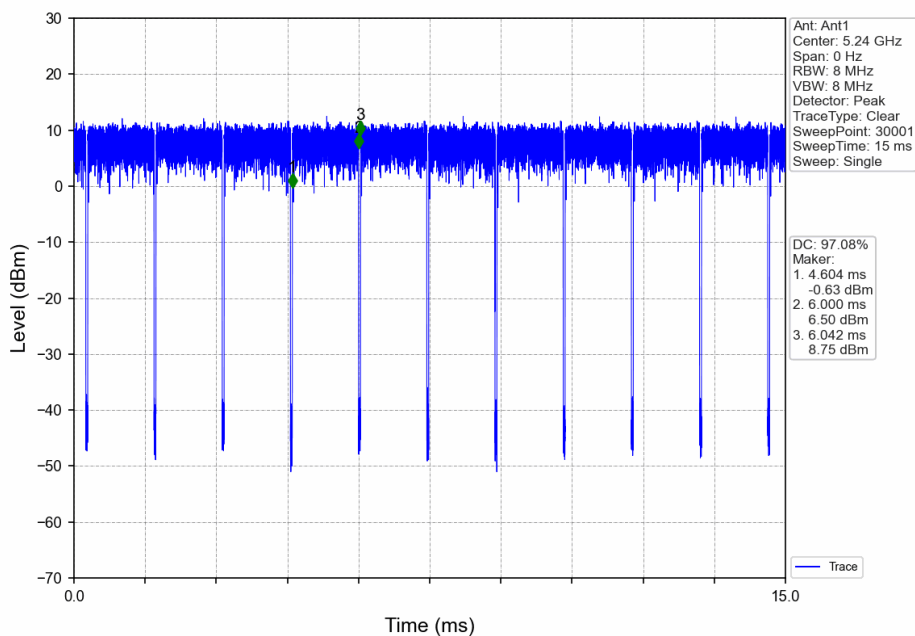
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.396	1.438	97.08	0.13	0.03
		5200	1.396	1.438	97.08	0.13	0.03
		5240	1.396	1.438	97.08	0.13	0.03
802.11n (HT20)	SISO	5180	1.307	1.349	96.89	0.14	0.03
		5200	1.308	1.349	96.96	0.13	0.07
		5240	1.307	1.349	96.89	0.14	0.03
802.11n (HT40)	SISO	5190	0.646	0.689	93.76	0.28	0.03
		5230	0.650	0.689	94.34	0.25	0.03
802.11ac (VHT20)	SISO	5180	1.316	1.357	96.98	0.13	0.03
		5200	1.316	1.358	96.91	0.14	0.03
		5240	1.316	1.357	96.98	0.13	0.03
802.11ac (VHT40)	SISO	5190	0.094	0.134	70.15	1.54	0.04
		5230	0.094	0.134	70.15	1.54	0.04
802.11ac (VHT80)	SISO	5210	0.066	0.105	62.86	2.02	0.04

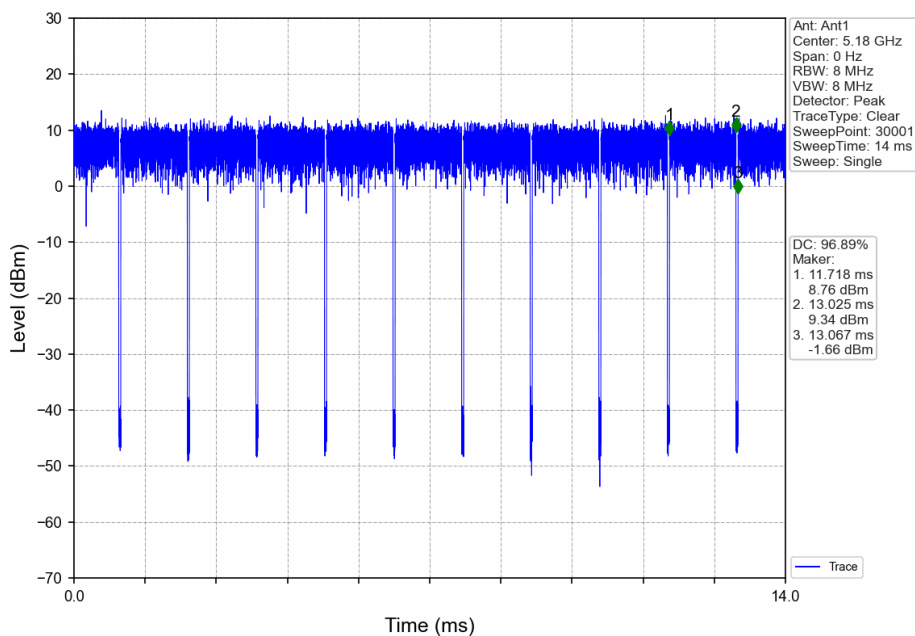
1.1.2 Test Graph



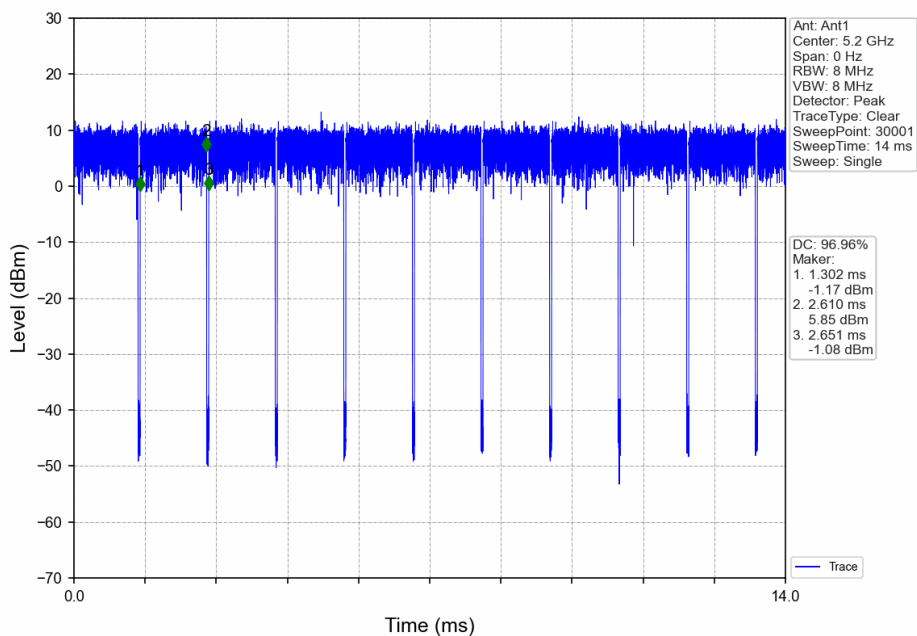
802.11a_HCH_5240MHz_Ant1_NTNV



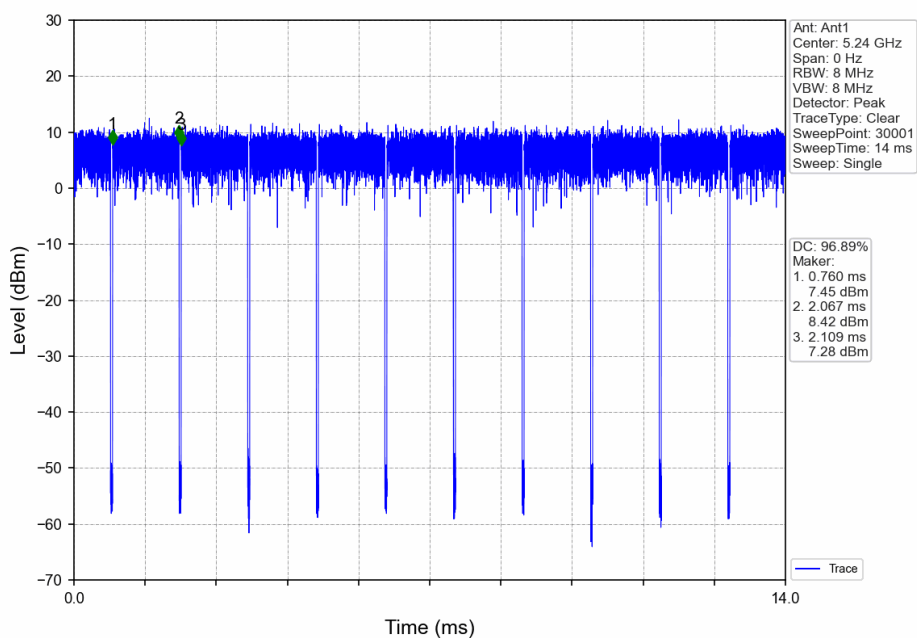
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



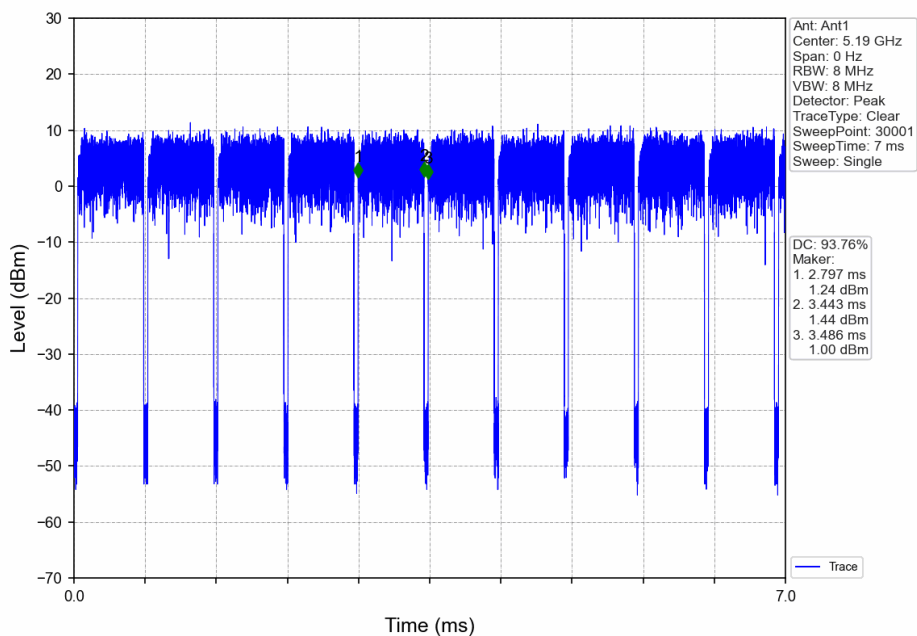
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



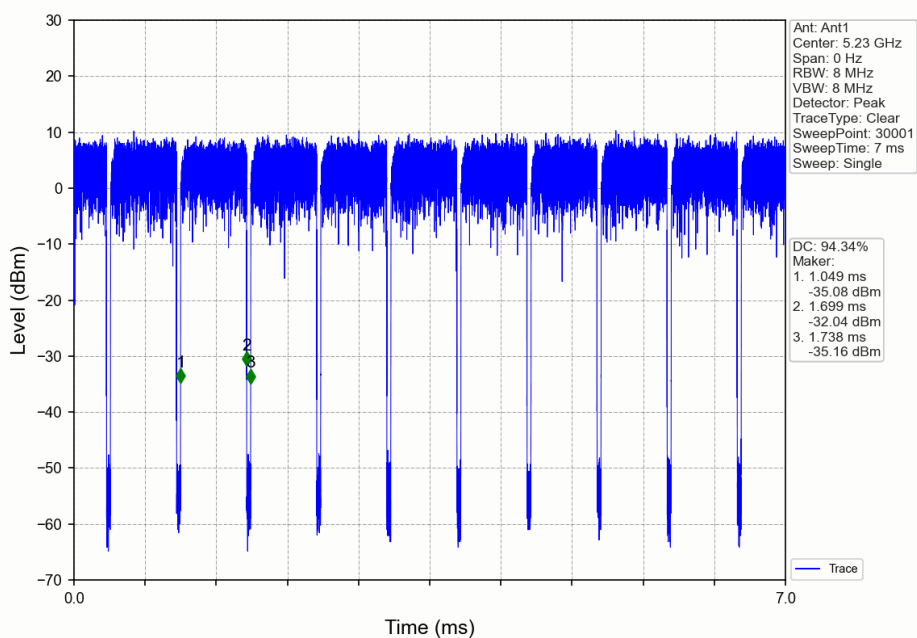
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



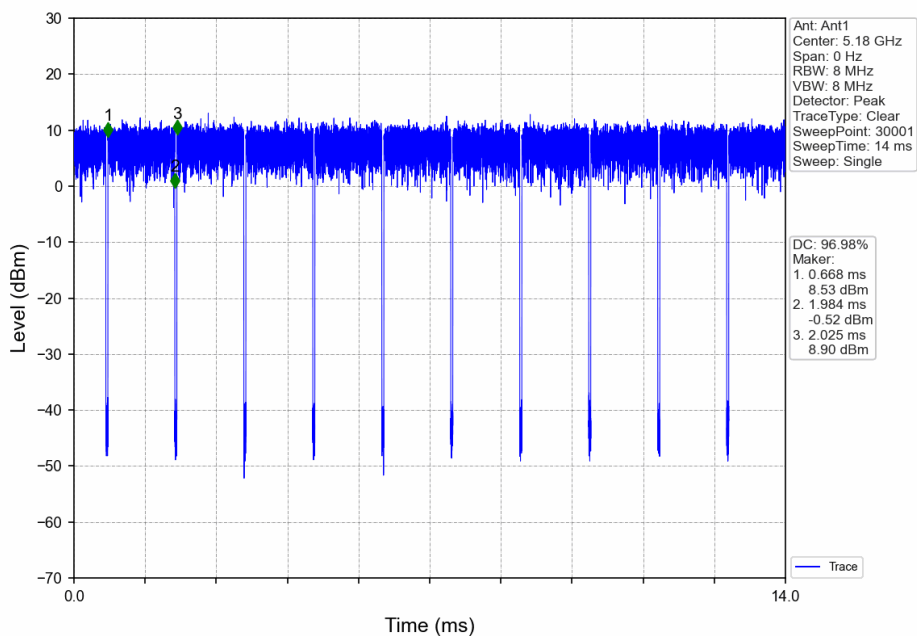
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



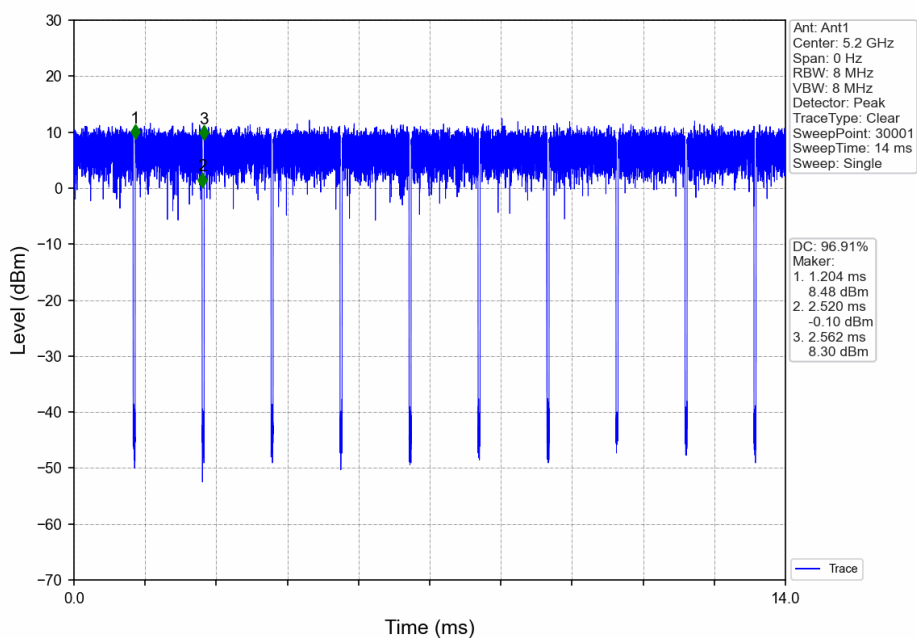
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



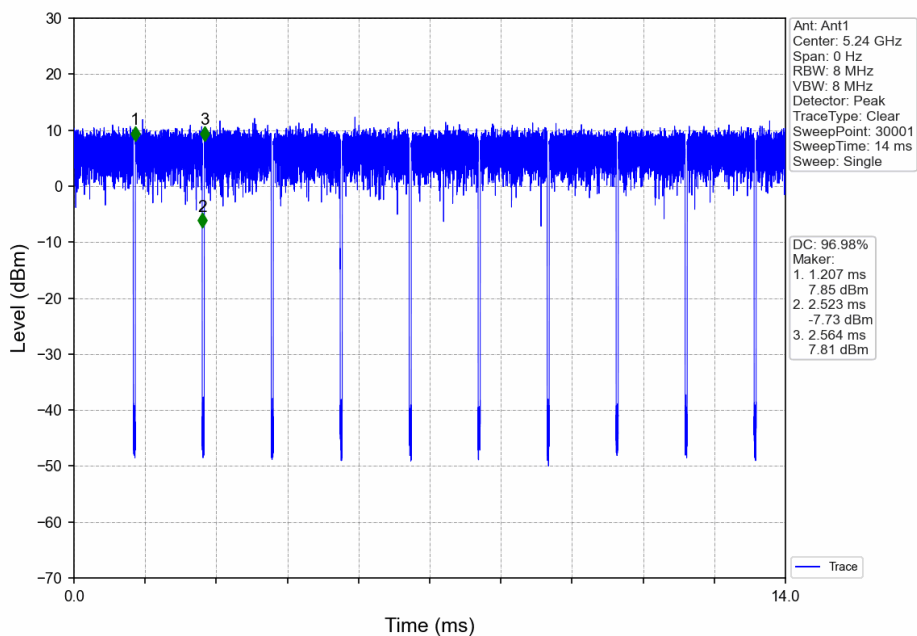
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



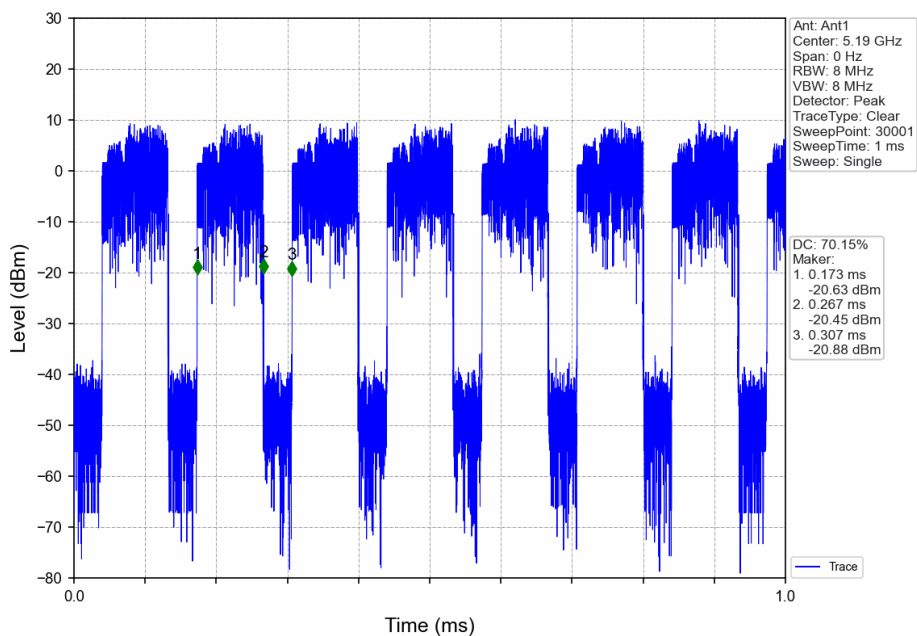
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



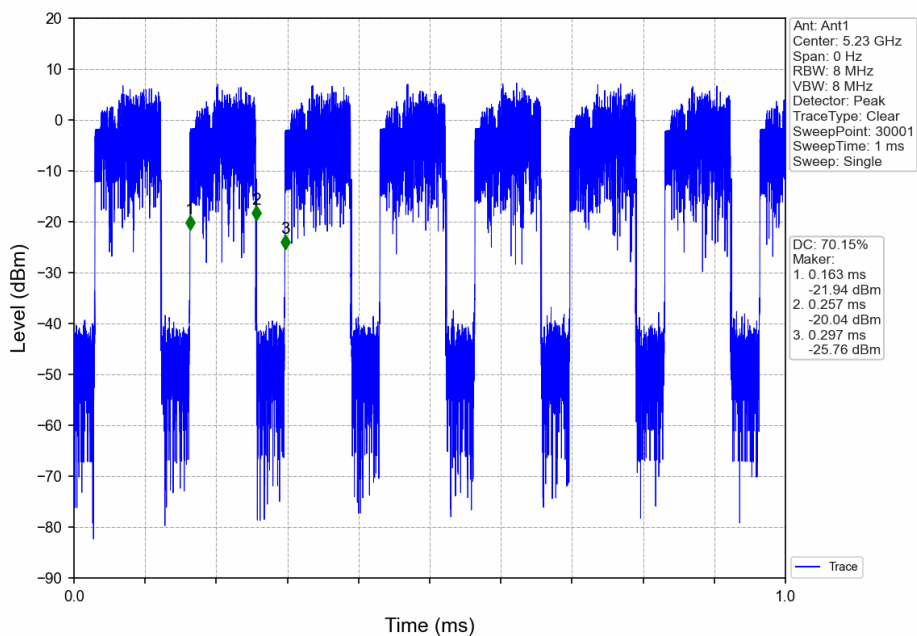
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



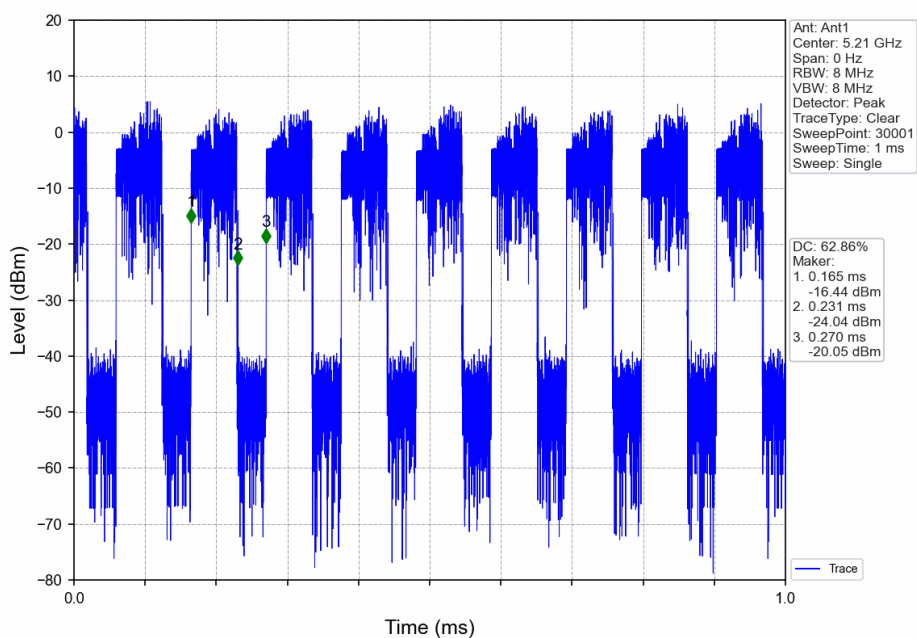
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



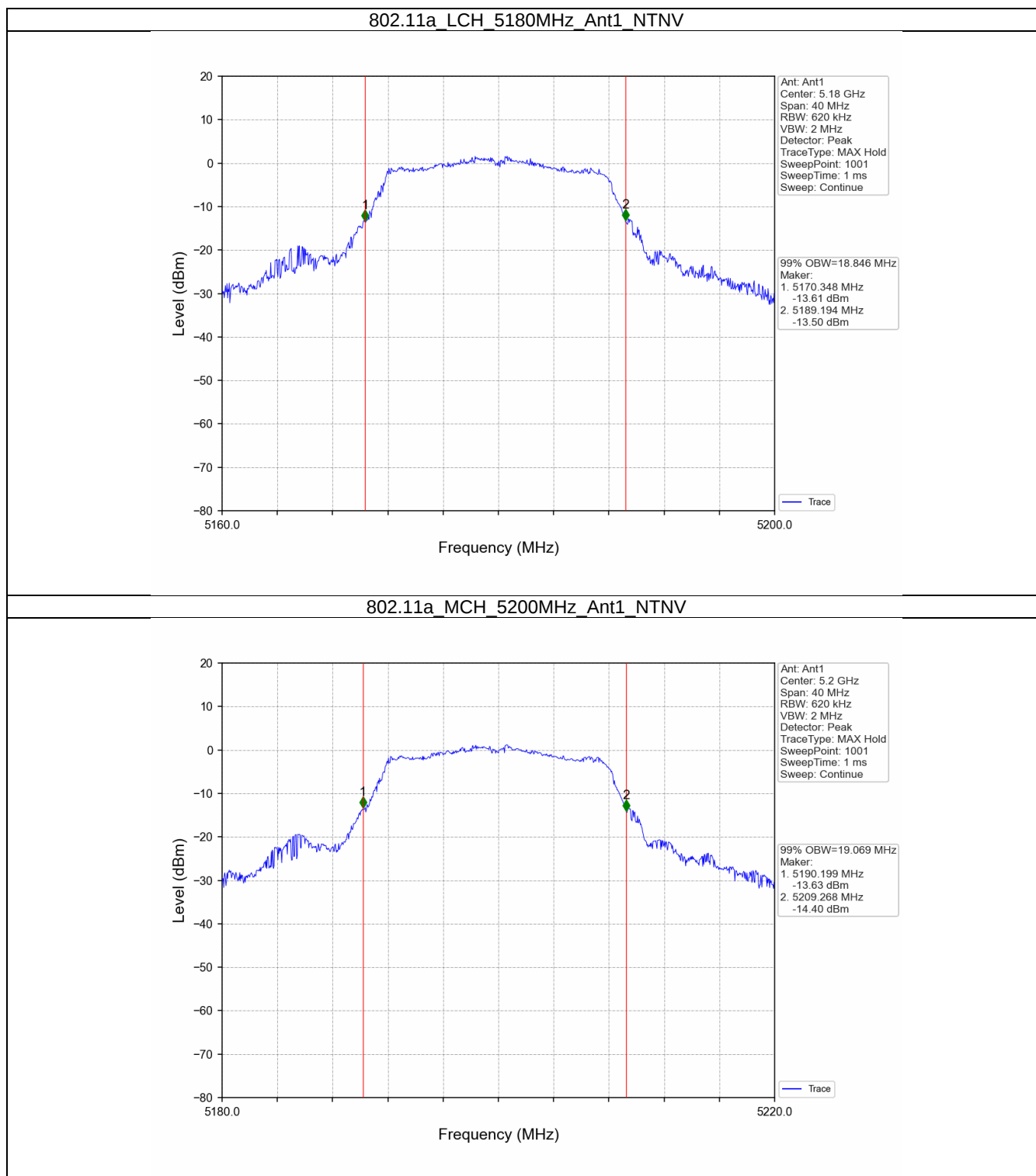
2. Bandwidth

2.1 OBW

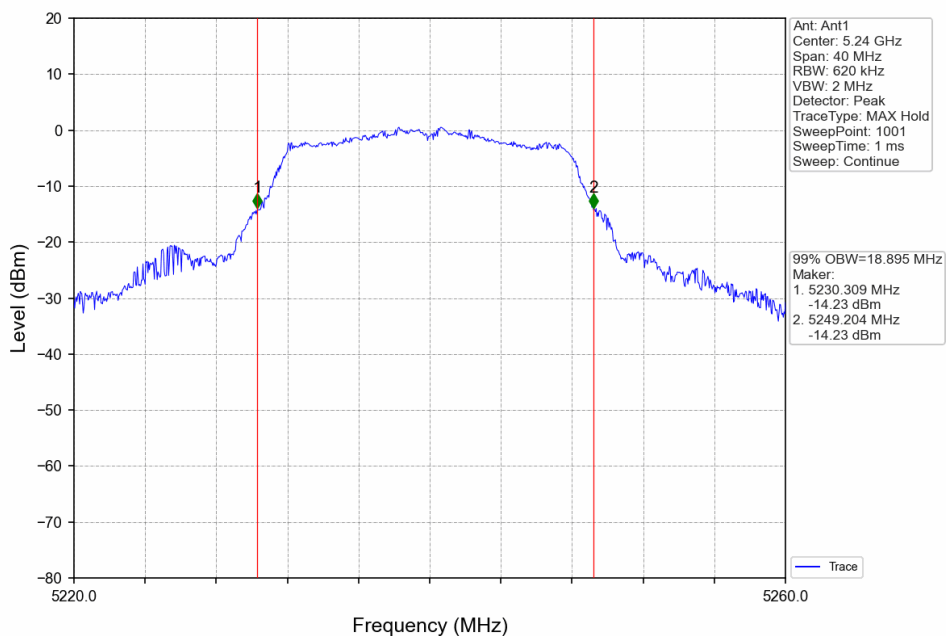
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	18.846	Pass
		5200	1	19.069	Pass
		5240	1	18.895	Pass
802.11n (HT20)	SISO	5180	1	19.226	Pass
		5200	1	19.448	Pass
		5240	1	19.322	Pass
802.11n (HT40)	SISO	5190	1	37.439	Pass
		5230	1	37.155	Pass
802.11ac (VHT20)	SISO	5180	1	19.137	Pass
		5200	1	19.124	Pass
		5240	1	18.993	Pass
802.11ac (VHT40)	SISO	5190	1	37.683	Pass
		5230	1	37.643	Pass
802.11ac (VHT80)	SISO	5210	1	76.319	Pass

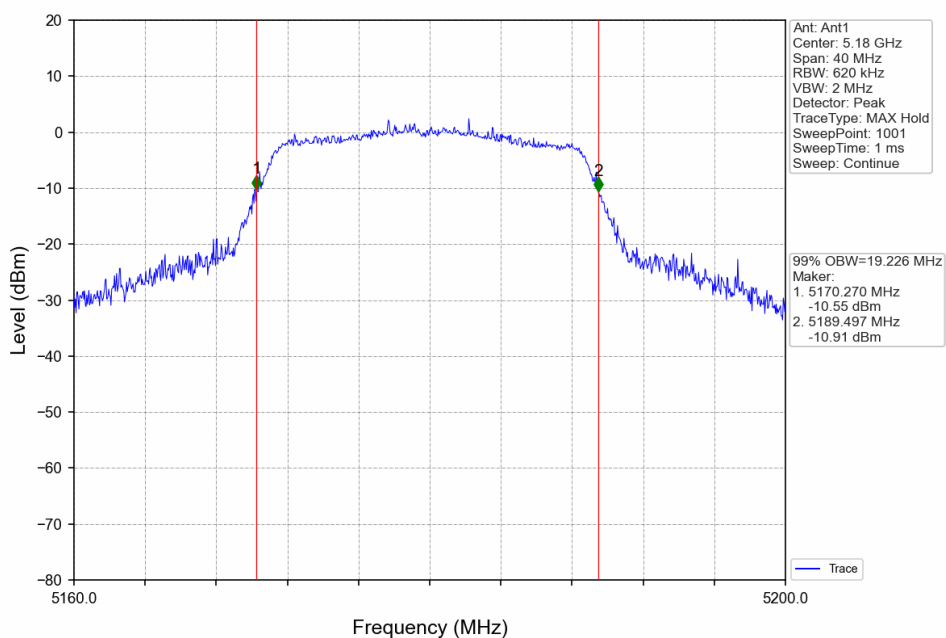
2.1.2 Test Graph



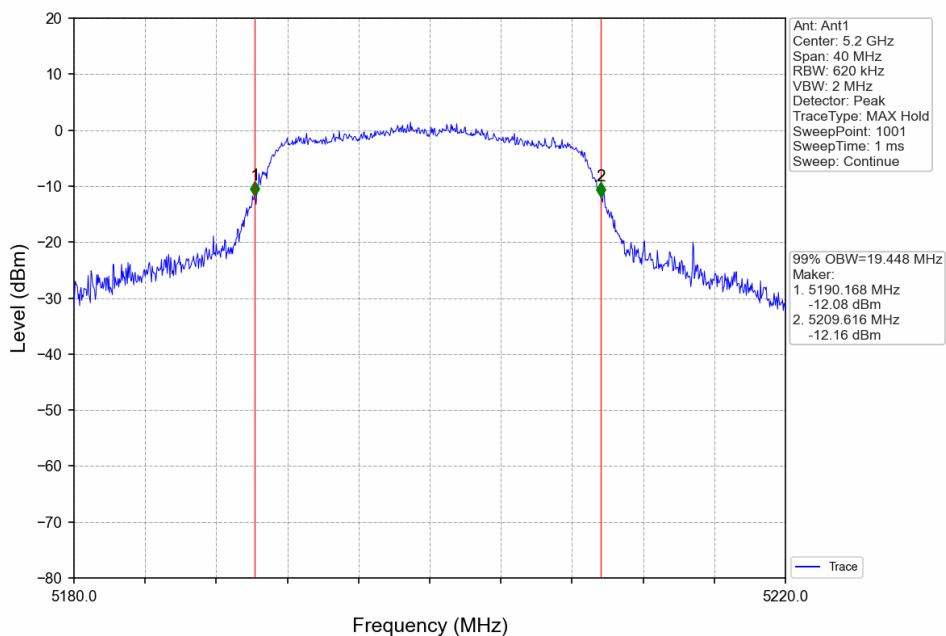
802.11a_HCH_5240MHz_Ant1_NTNV



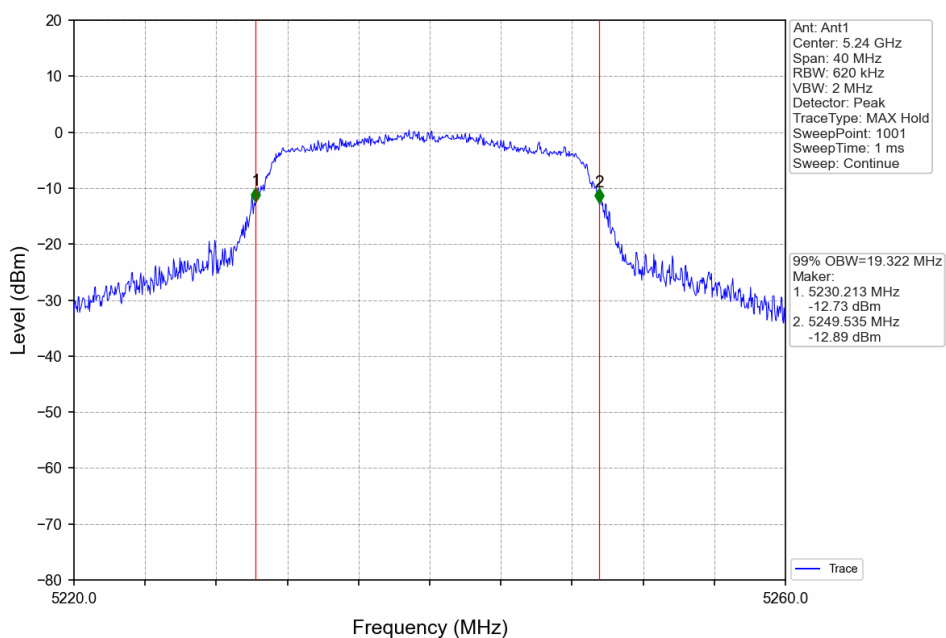
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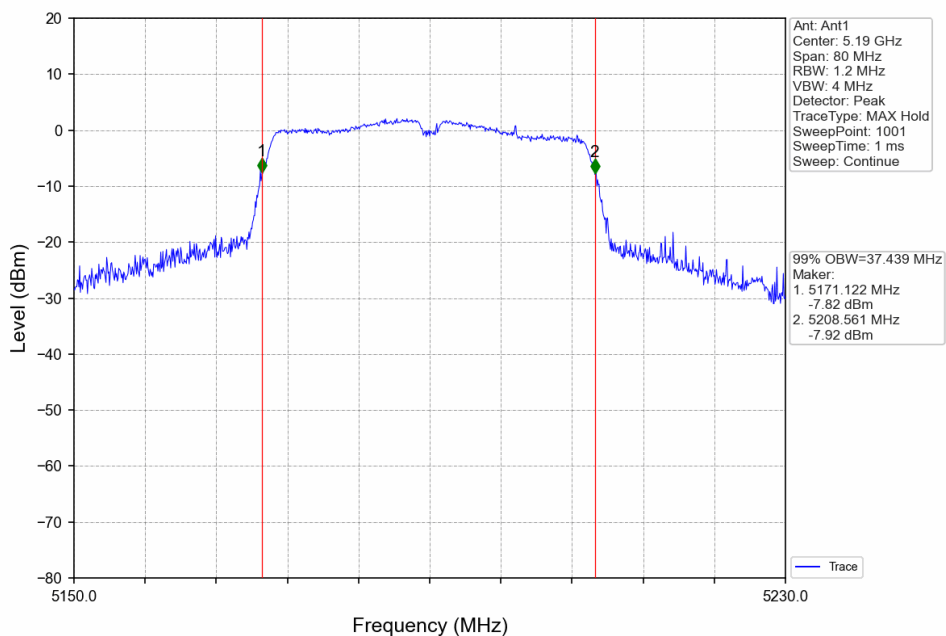
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



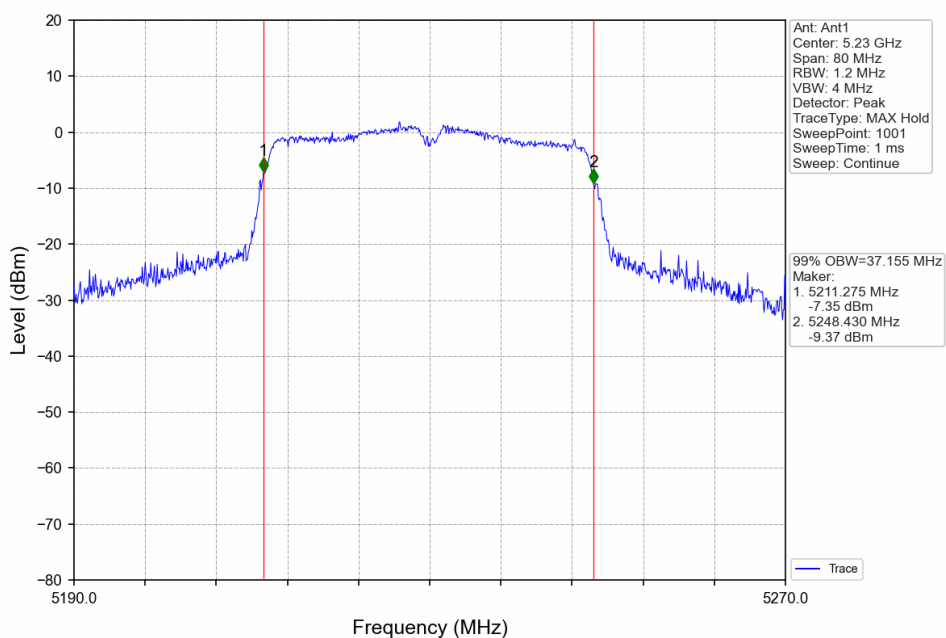
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



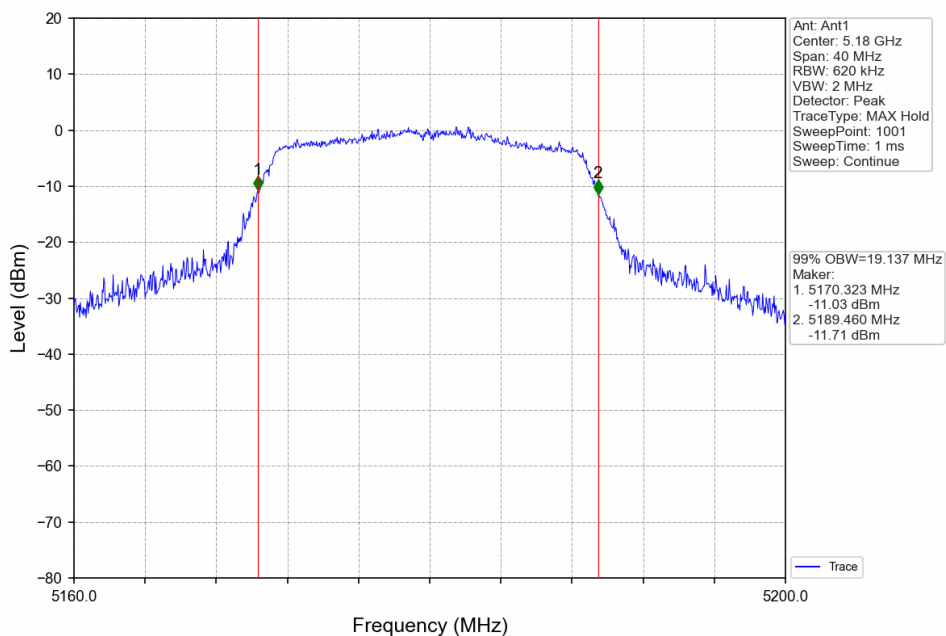
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



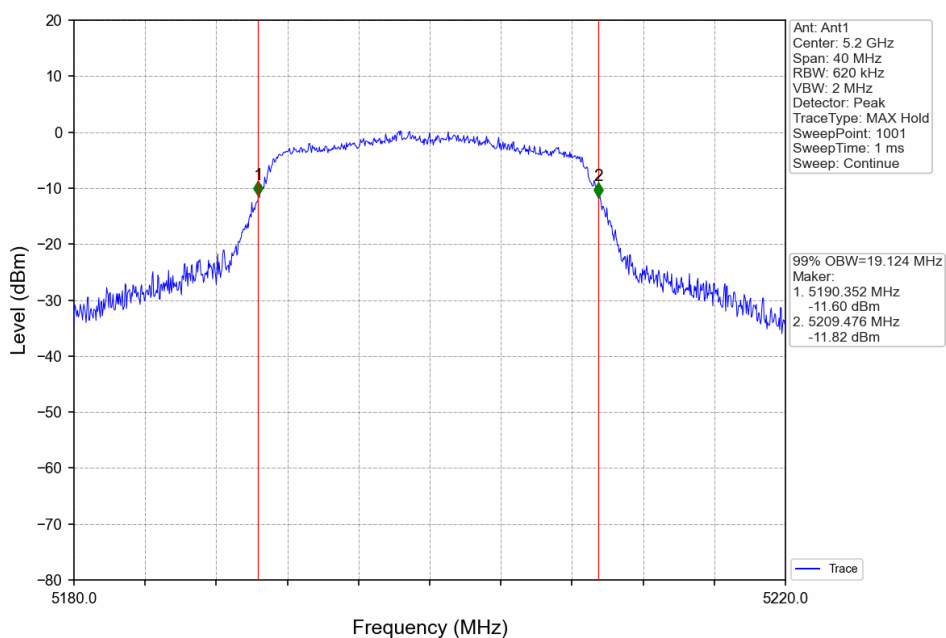
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



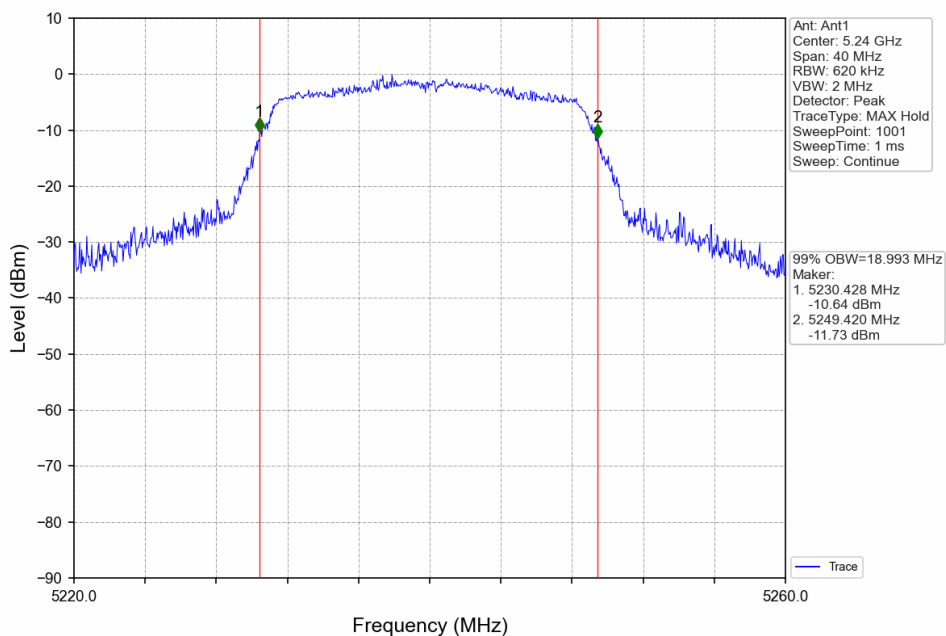
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



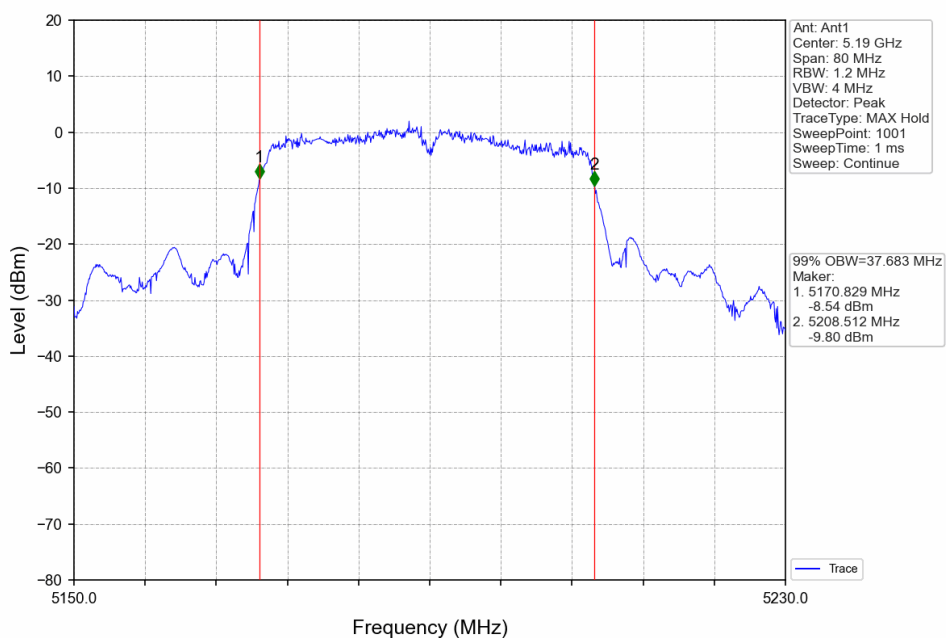
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



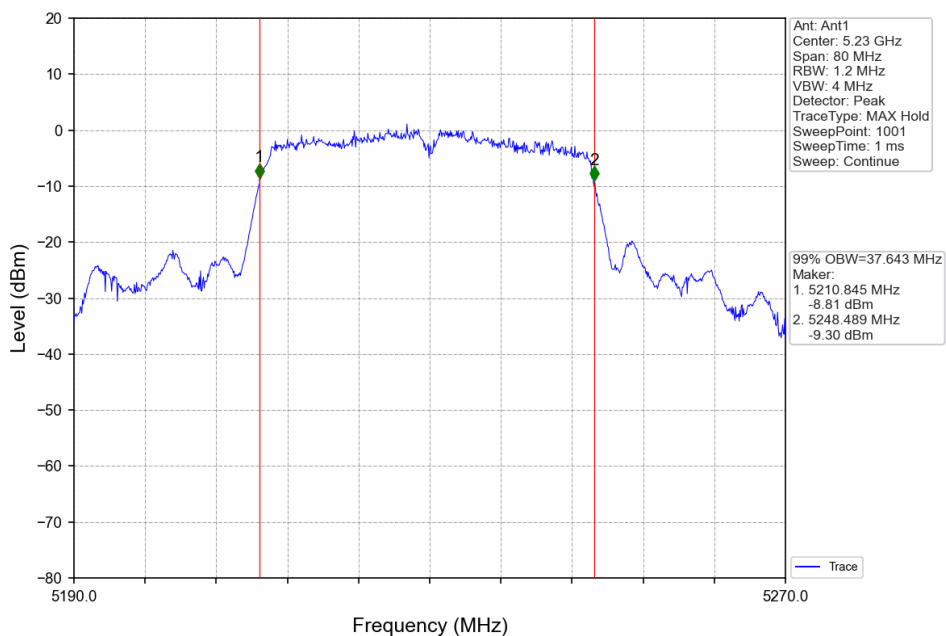
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



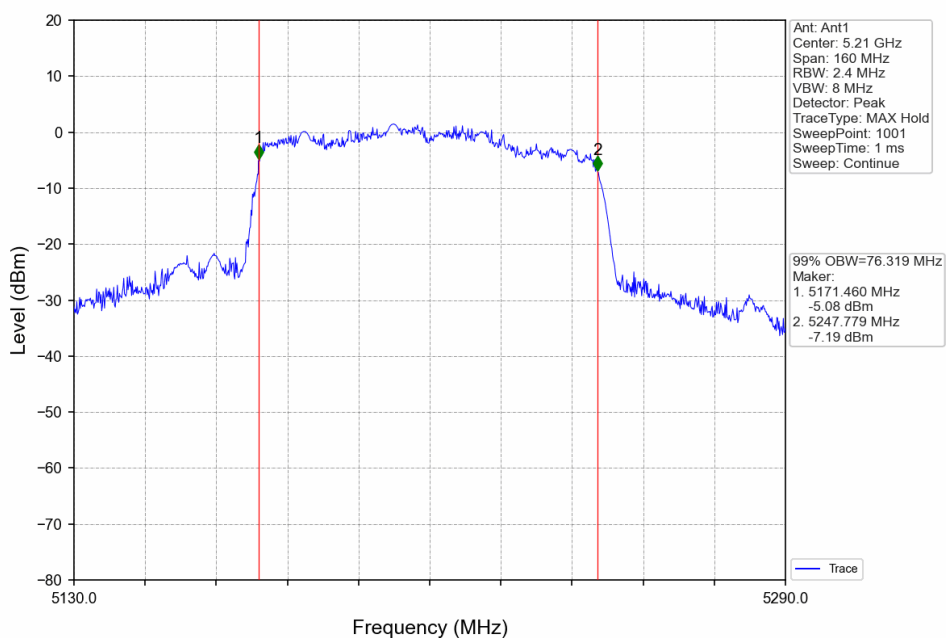
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

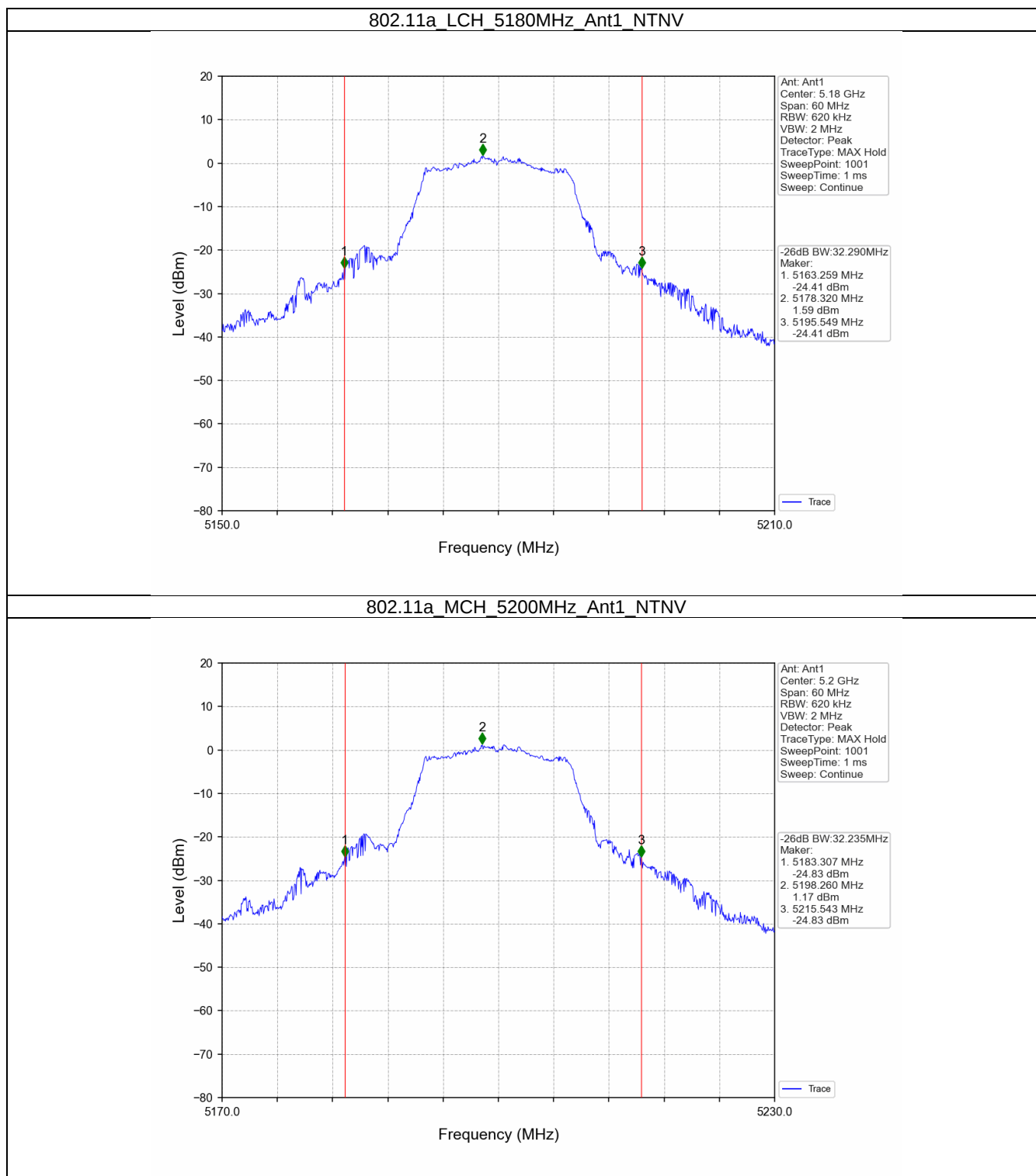


2.2 26dB BW

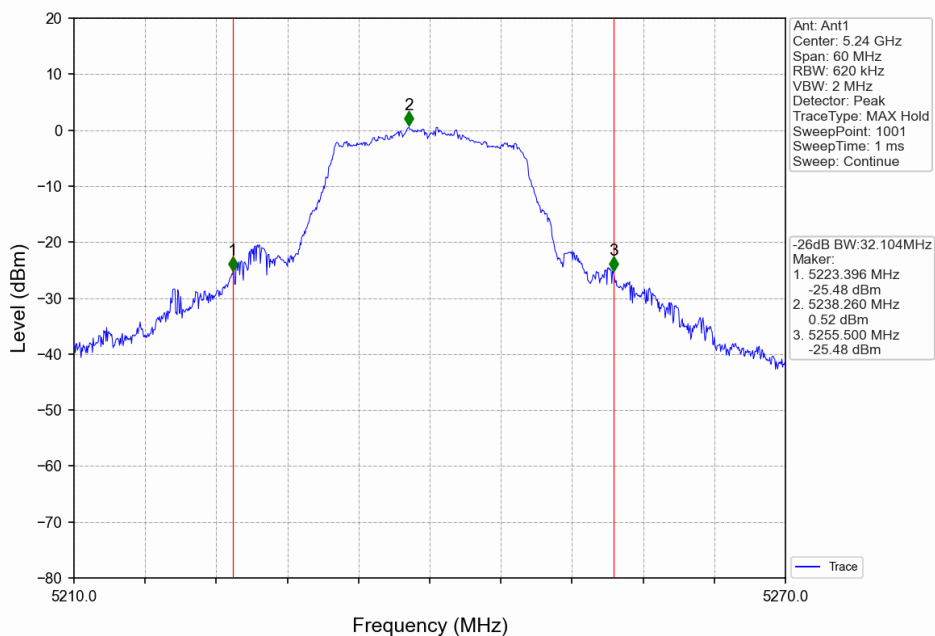
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	32.290	Pass
		5200	1	32.235	Pass
		5240	1	32.104	Pass
802.11n (HT20)	SISO	5180	1	33.218	Pass
		5200	1	34.081	Pass
		5240	1	32.599	Pass
802.11n (HT40)	SISO	5190	1	68.649	Pass
		5230	1	65.929	Pass
802.11ac (VHT20)	SISO	5180	1	31.582	Pass
		5200	1	32.431	Pass
		5240	1	29.761	Pass
802.11ac (VHT40)	SISO	5190	1	70.197	Pass
		5230	1	69.957	Pass
802.11ac (VHT80)	SISO	5210	1	99.227	Pass

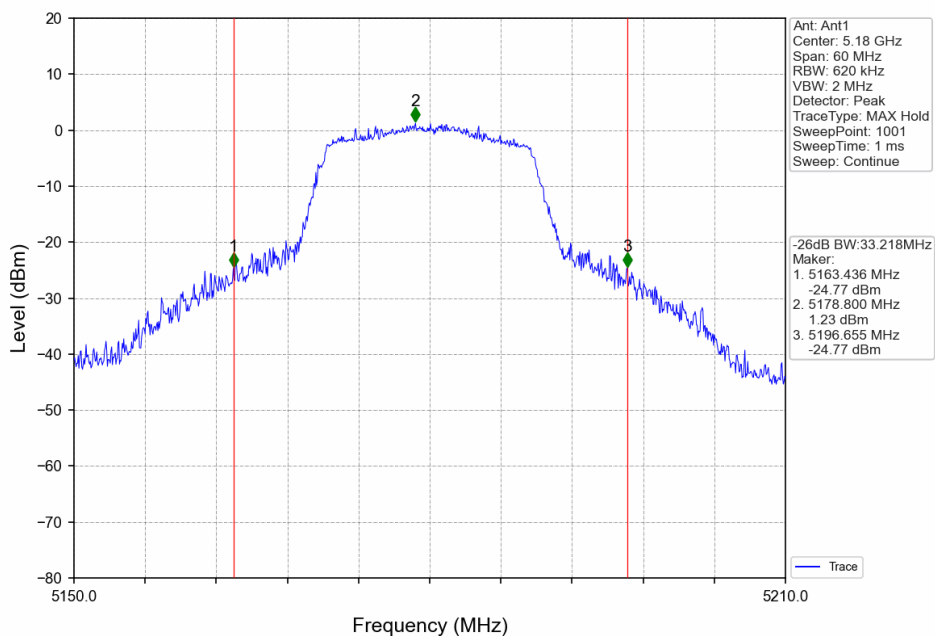
2.2.2 Test Graph



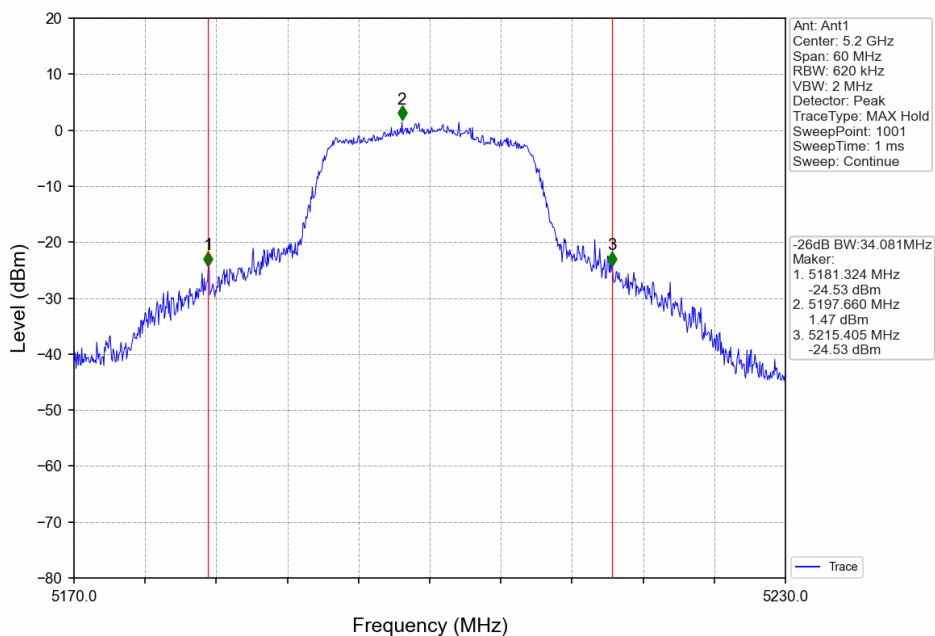
802.11a_HCH_5240MHz_Ant1_NTNV



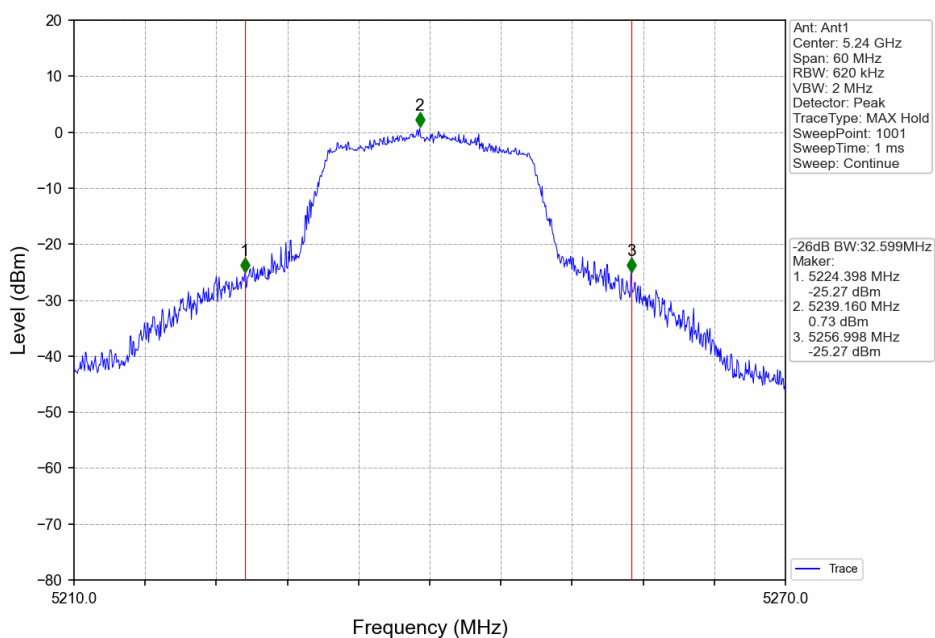
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



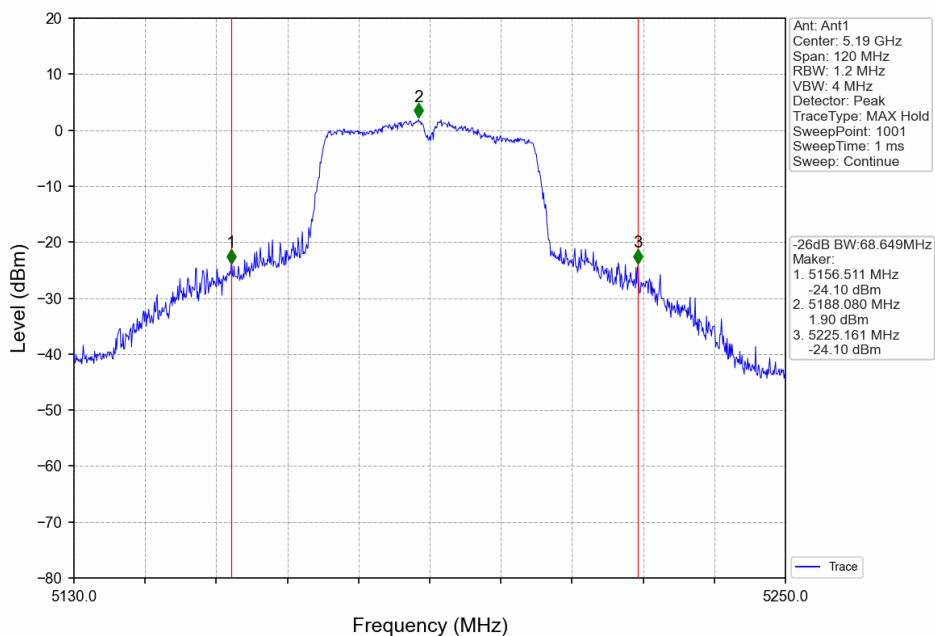
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



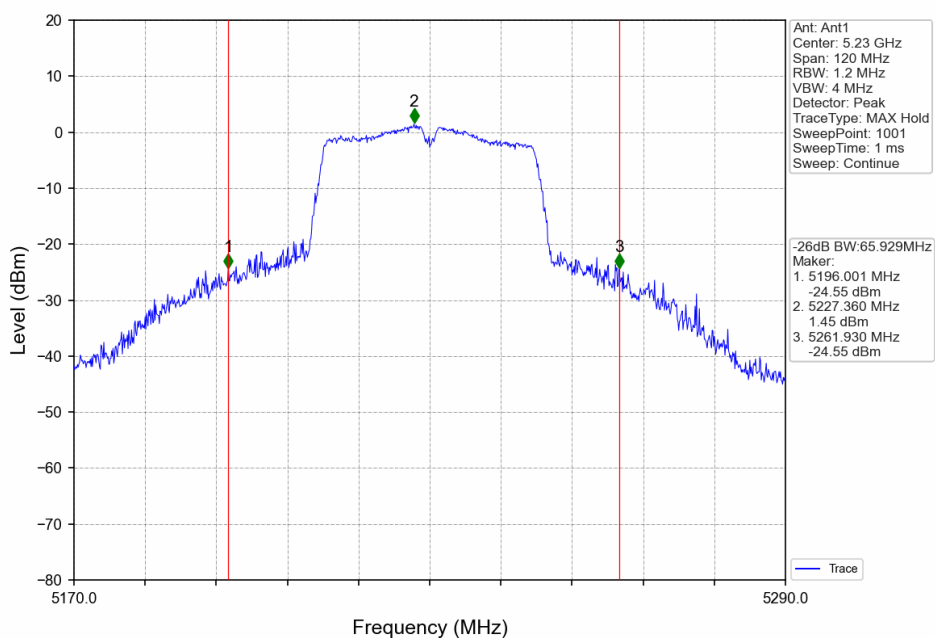
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



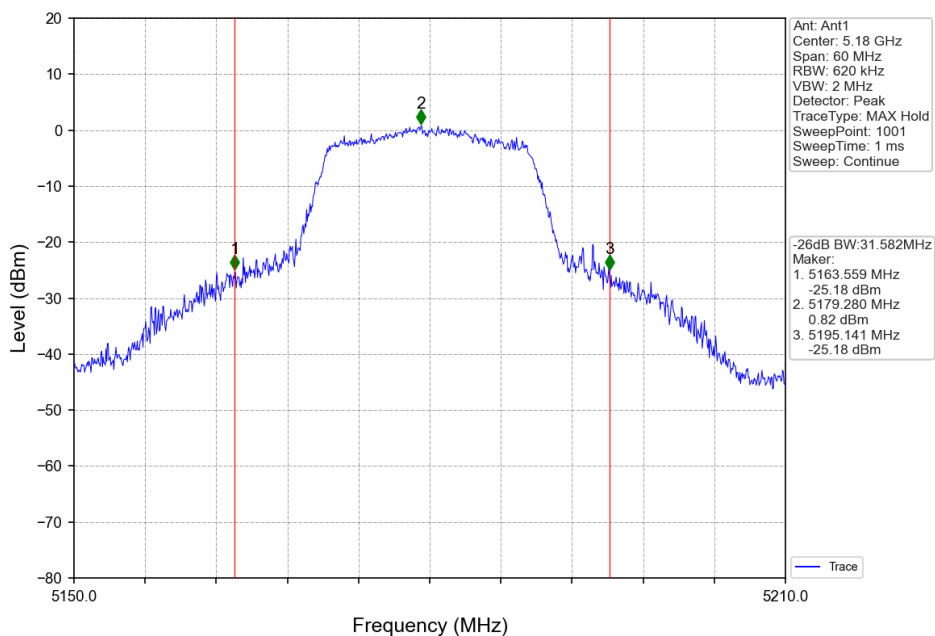
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



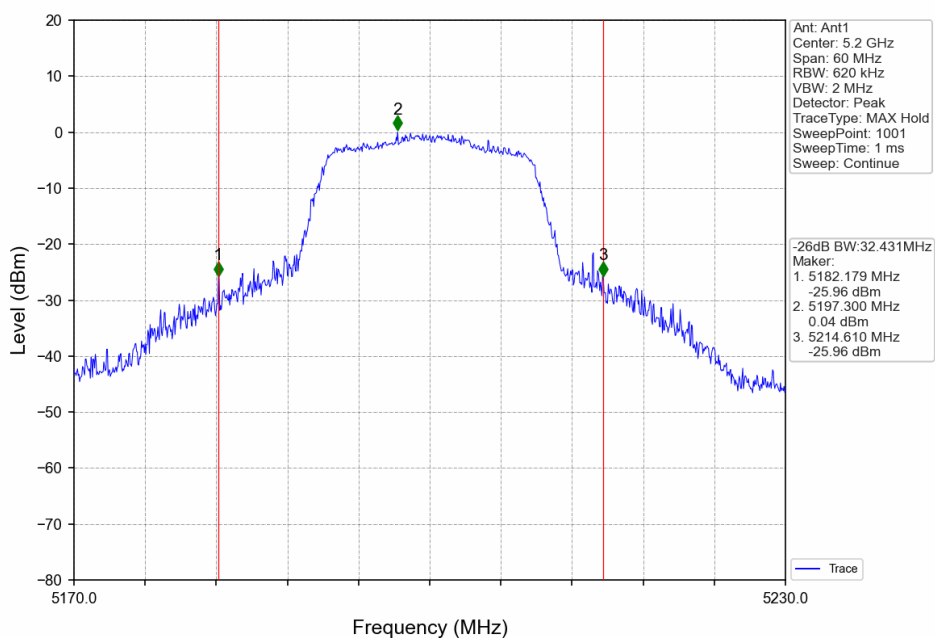
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



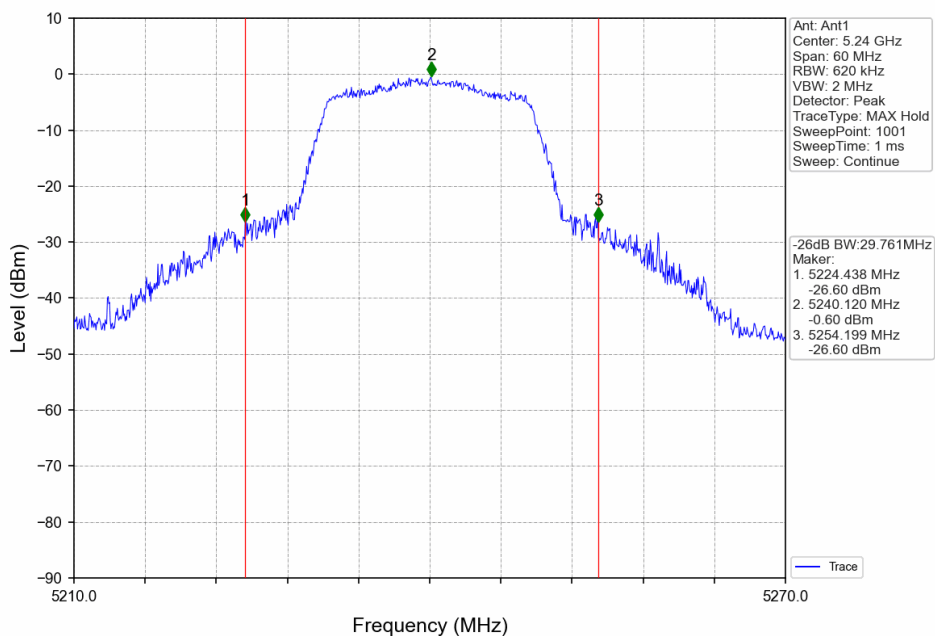
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



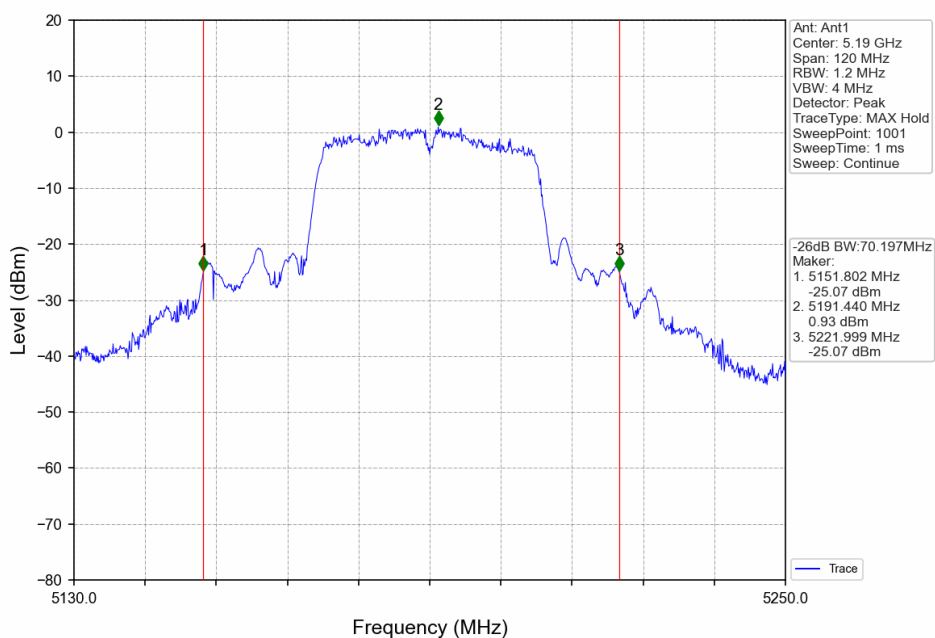
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



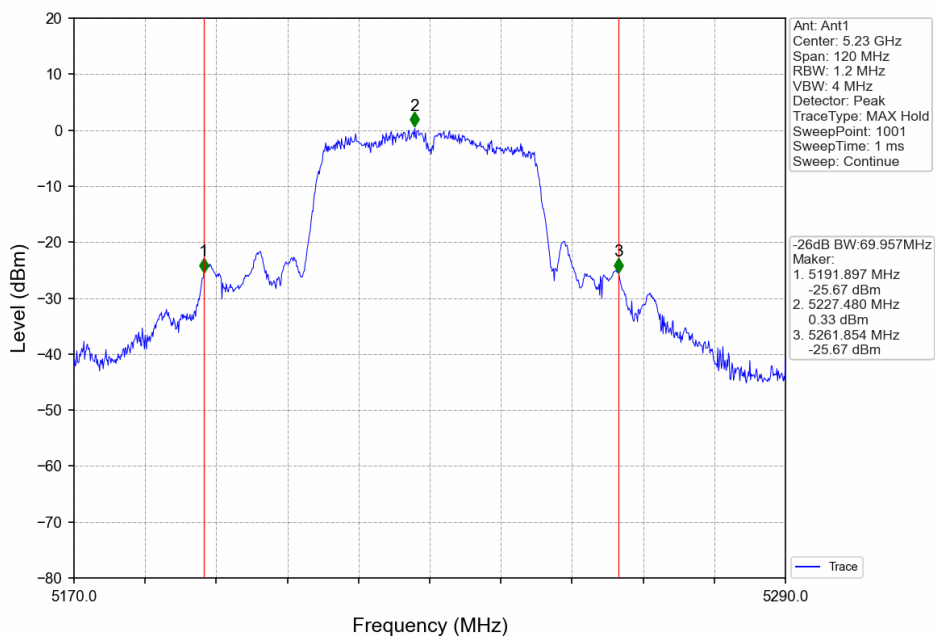
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



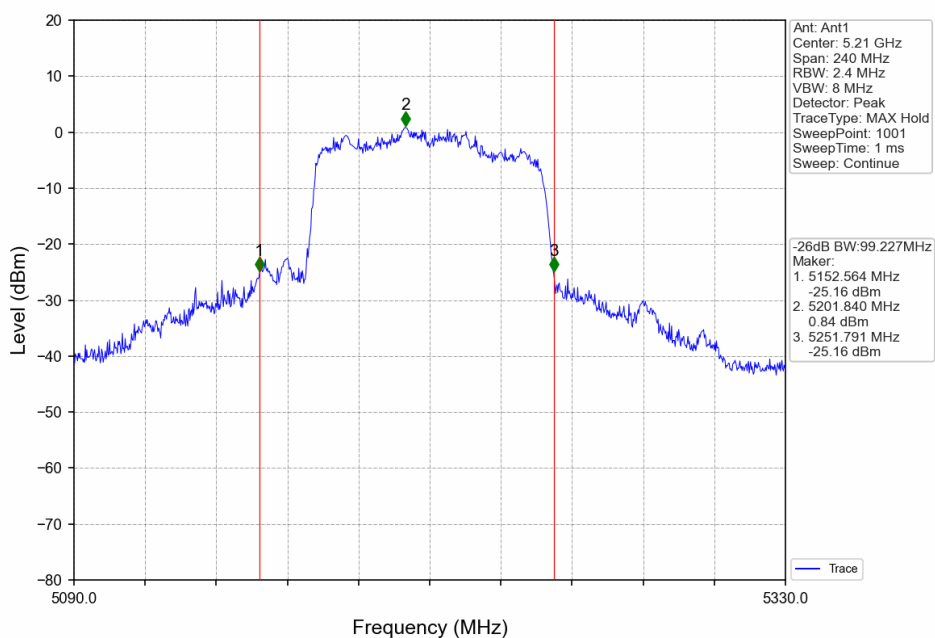
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11a	SISO	5180	11.58	<=23.98	Pass
		5200	14.22	<=23.98	Pass
		5240	13.18	<=23.98	Pass
802.11n (HT20)	SISO	5180	11.75	<=23.98	Pass
		5200	14.14	<=23.98	Pass
		5240	13.08	<=23.98	Pass
802.11n (HT40)	SISO	5190	9.24	<=23.98	Pass
		5230	13.01	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	9.76	<=23.98	Pass
		5200	10.10	<=23.98	Pass
		5240	10.35	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	7.51	<=23.98	Pass
		5230	9.21	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	6.94	<=23.98	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;

4. Maximum Power Spectral Density

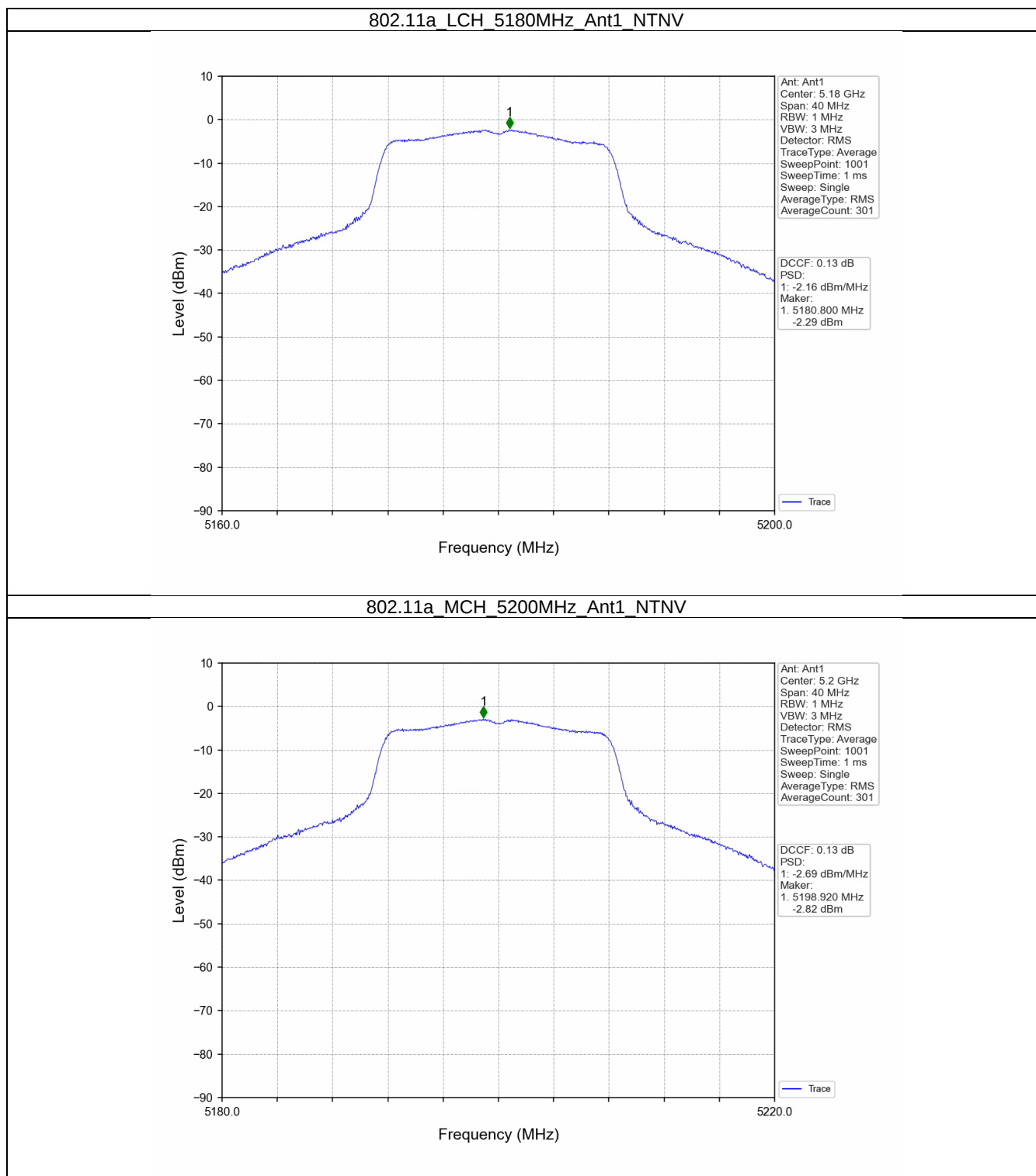
4.1 PSD

4.1.1 Test Result

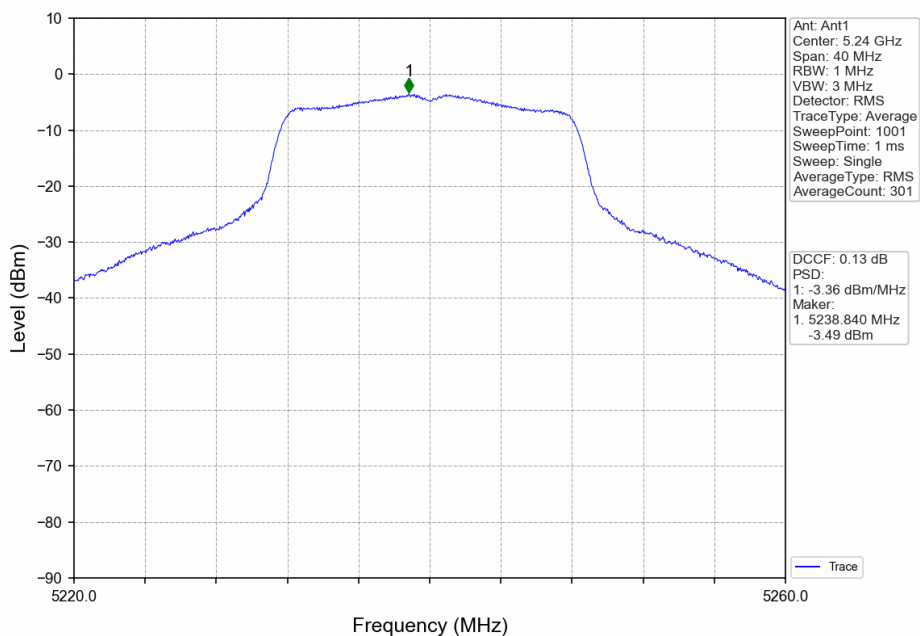
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			Ant1	Limit	
802.11a	SISO	5180	-2.16	<=11	Pass
		5200	-2.69	<=11	Pass
		5240	-3.36	<=11	Pass
802.11n (HT20)	SISO	5180	-3.35	<=11	Pass
		5200	-3.91	<=11	Pass
		5240	-4.37	<=11	Pass
802.11n (HT40)	SISO	5190	-5.69	<=11	Pass
		5230	-6.44	<=11	Pass
802.11ac (VHT20)	SISO	5180	-3.34	<=11	Pass
		5200	-3.92	<=11	Pass
		5240	-4.57	<=11	Pass
802.11ac (VHT40)	SISO	5190	-5.91	<=11	Pass
		5230	-8.10	<=11	Pass
802.11ac (VHT80)	SISO	5210	-11.32	<=11	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;

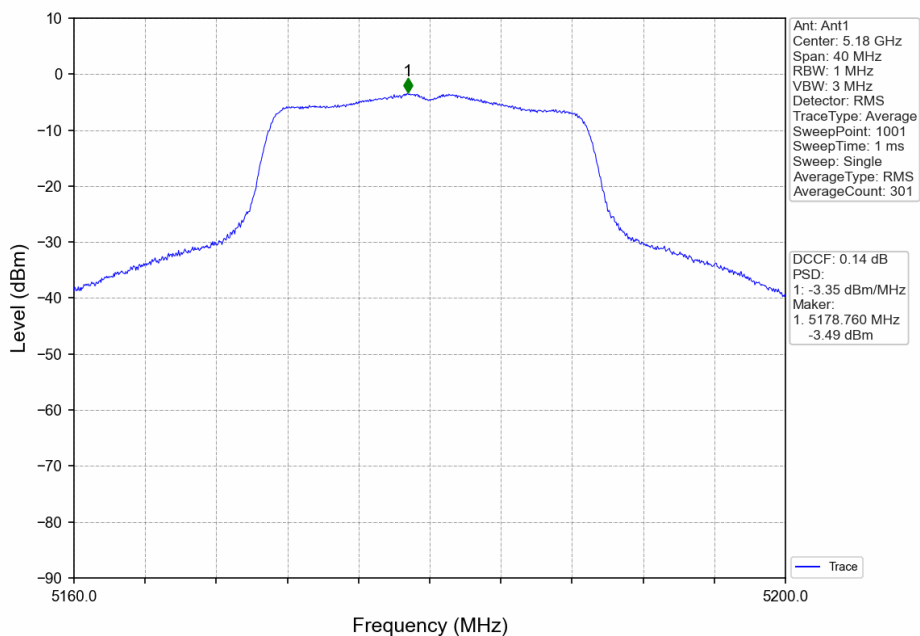
4.1.2 Test Graph



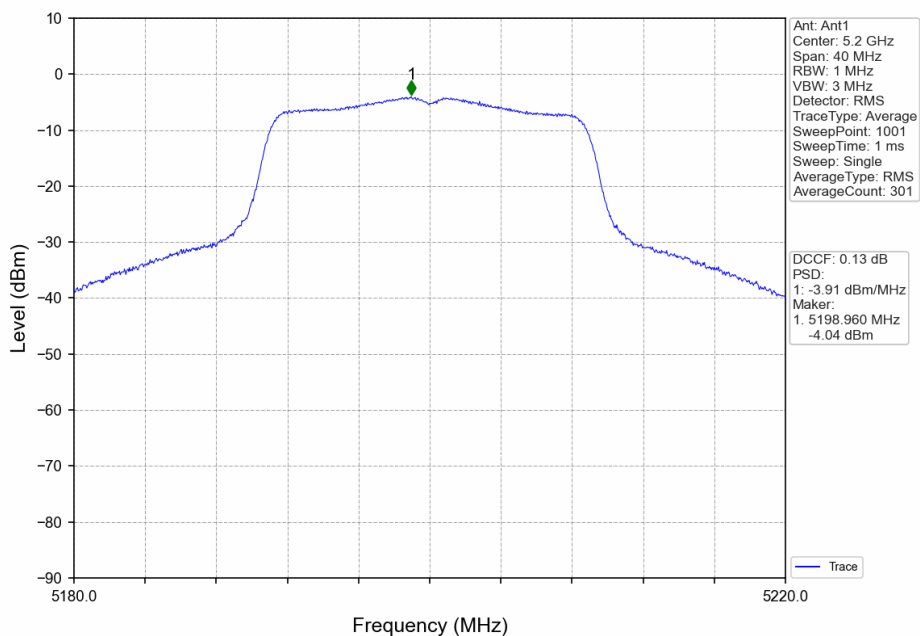
802.11a_HCH_5240MHz_Ant1_NTNV



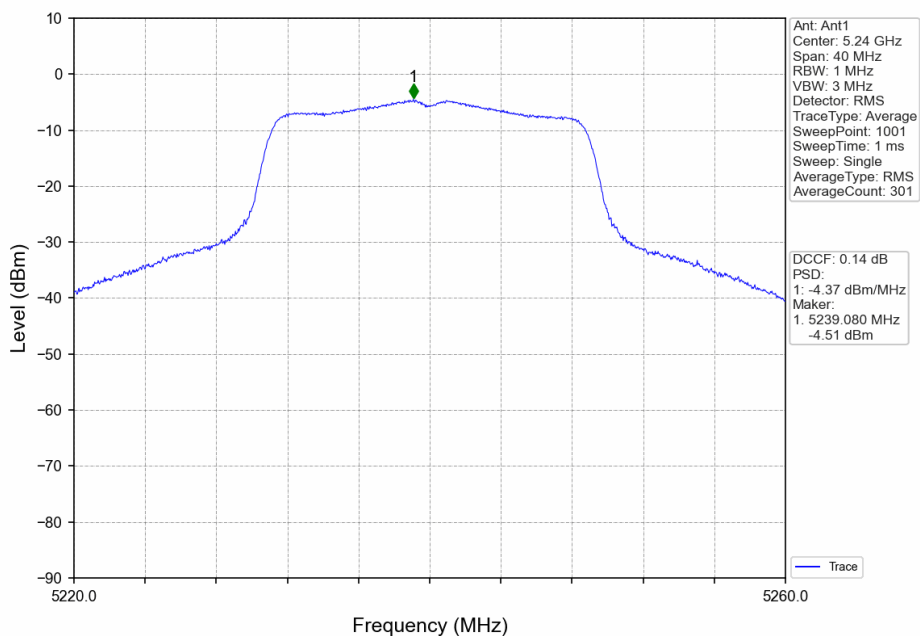
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



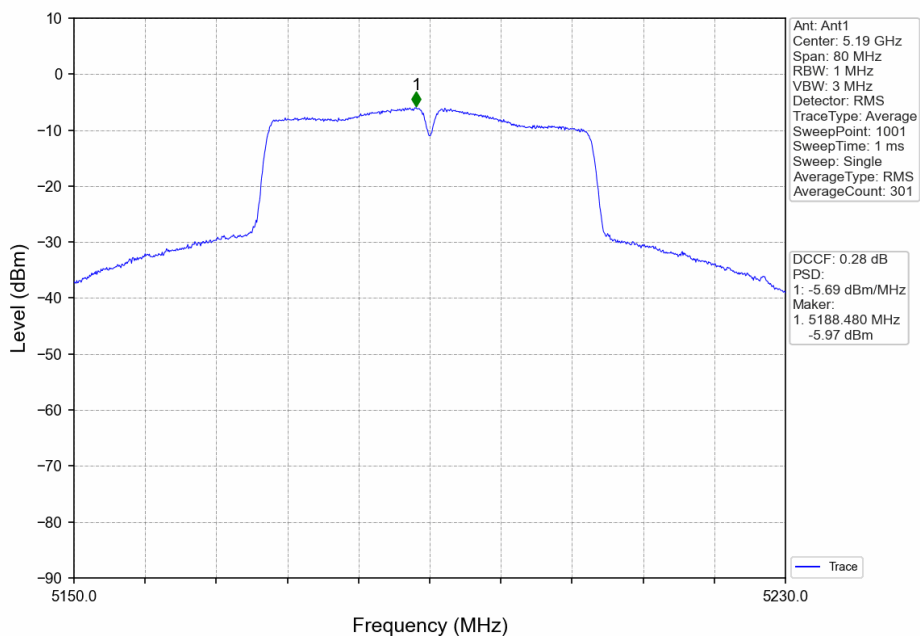
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



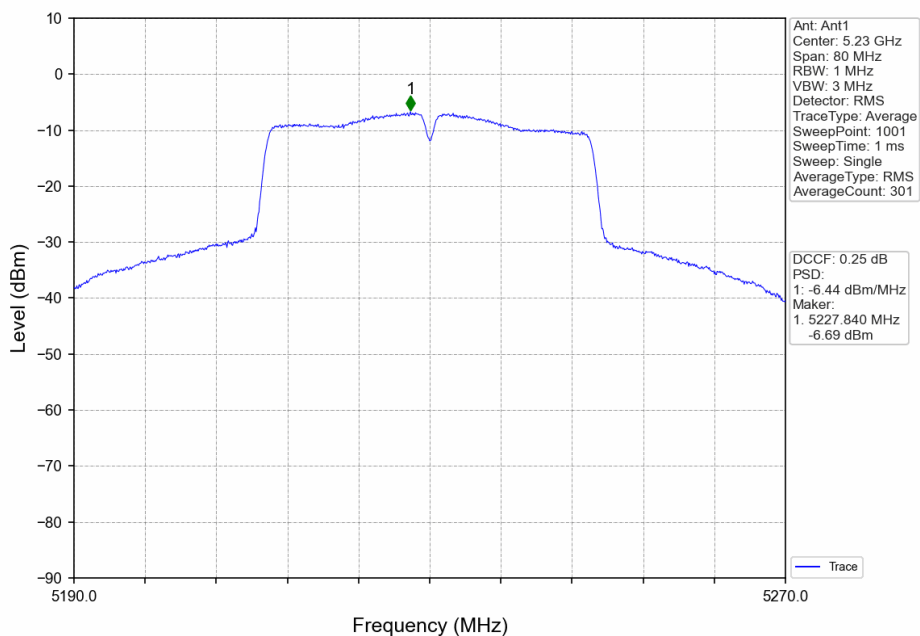
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



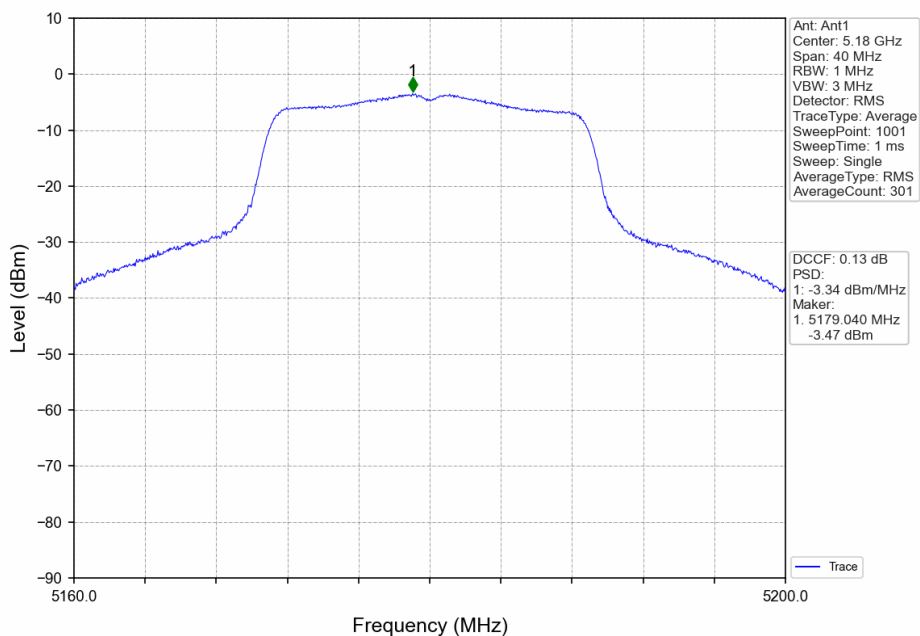
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



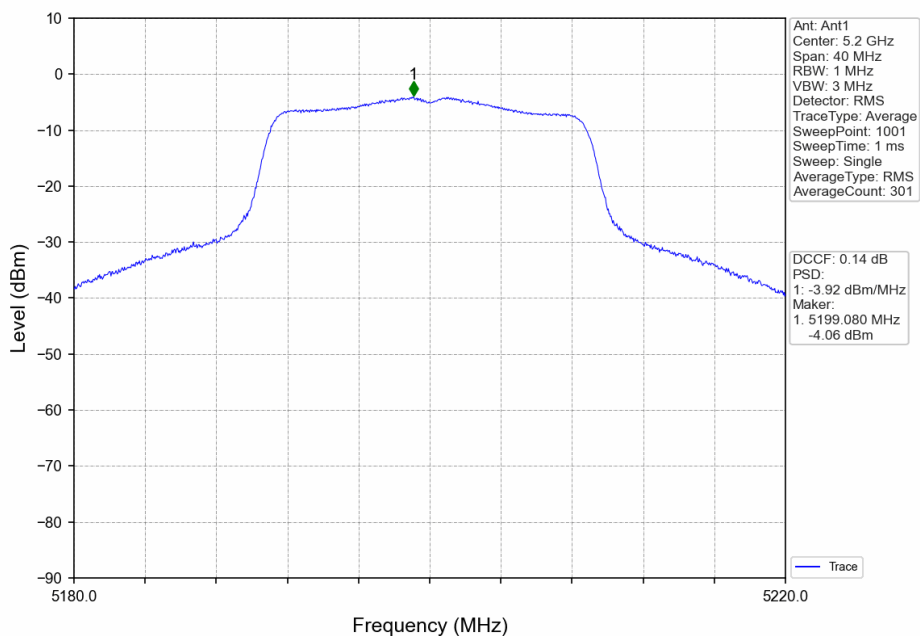
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



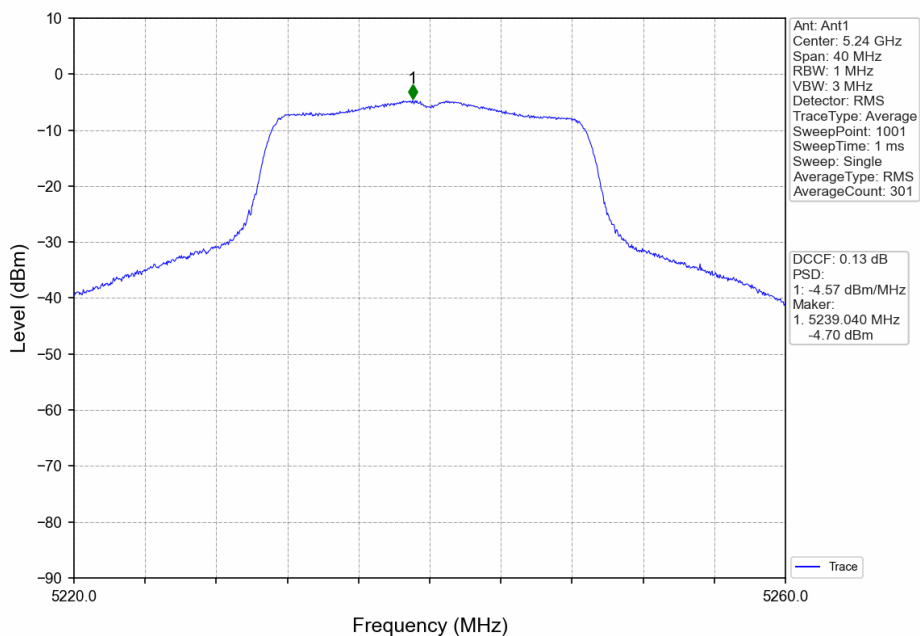
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



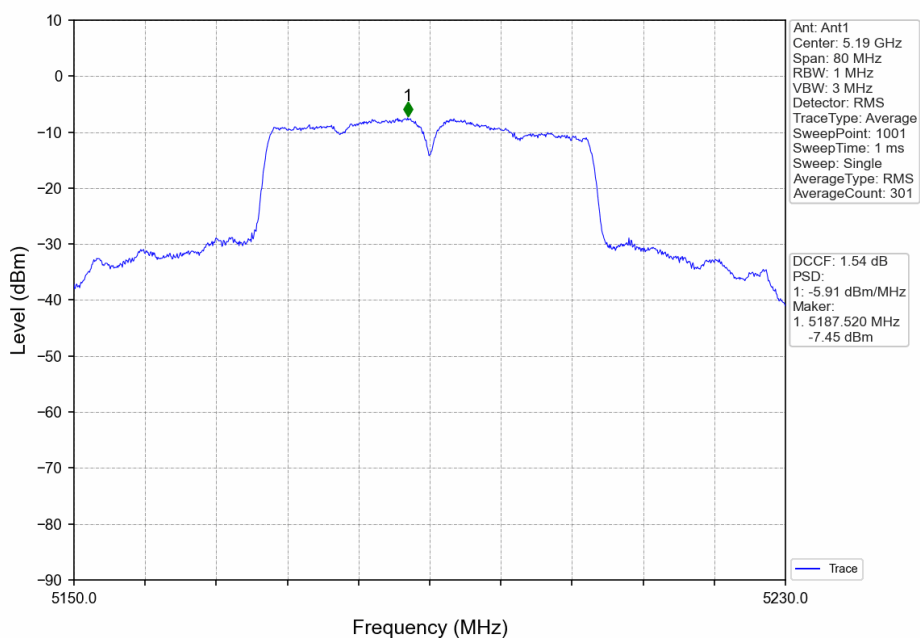
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



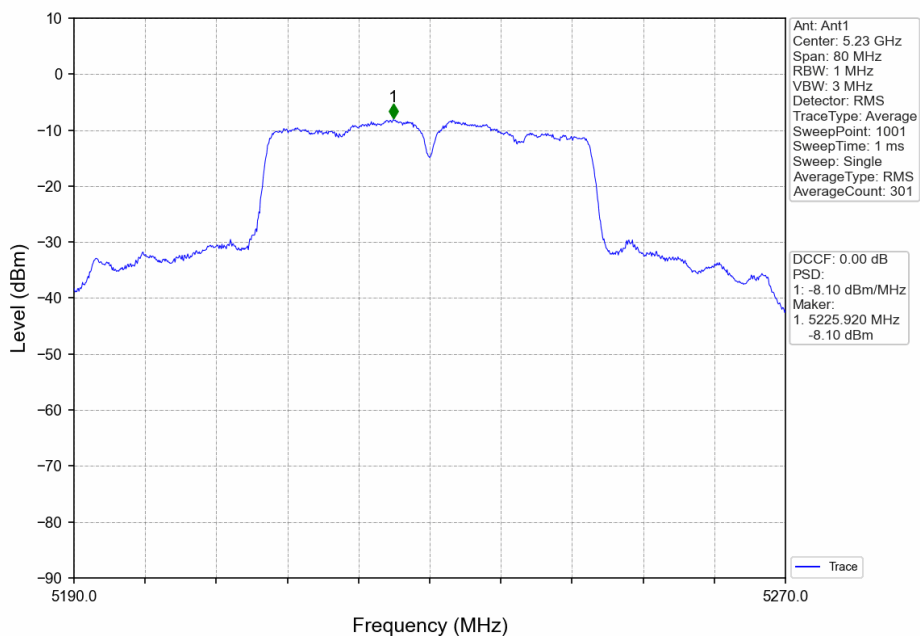
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

