

Appendix RF test data for WIFI5G

1. Duty Cycle

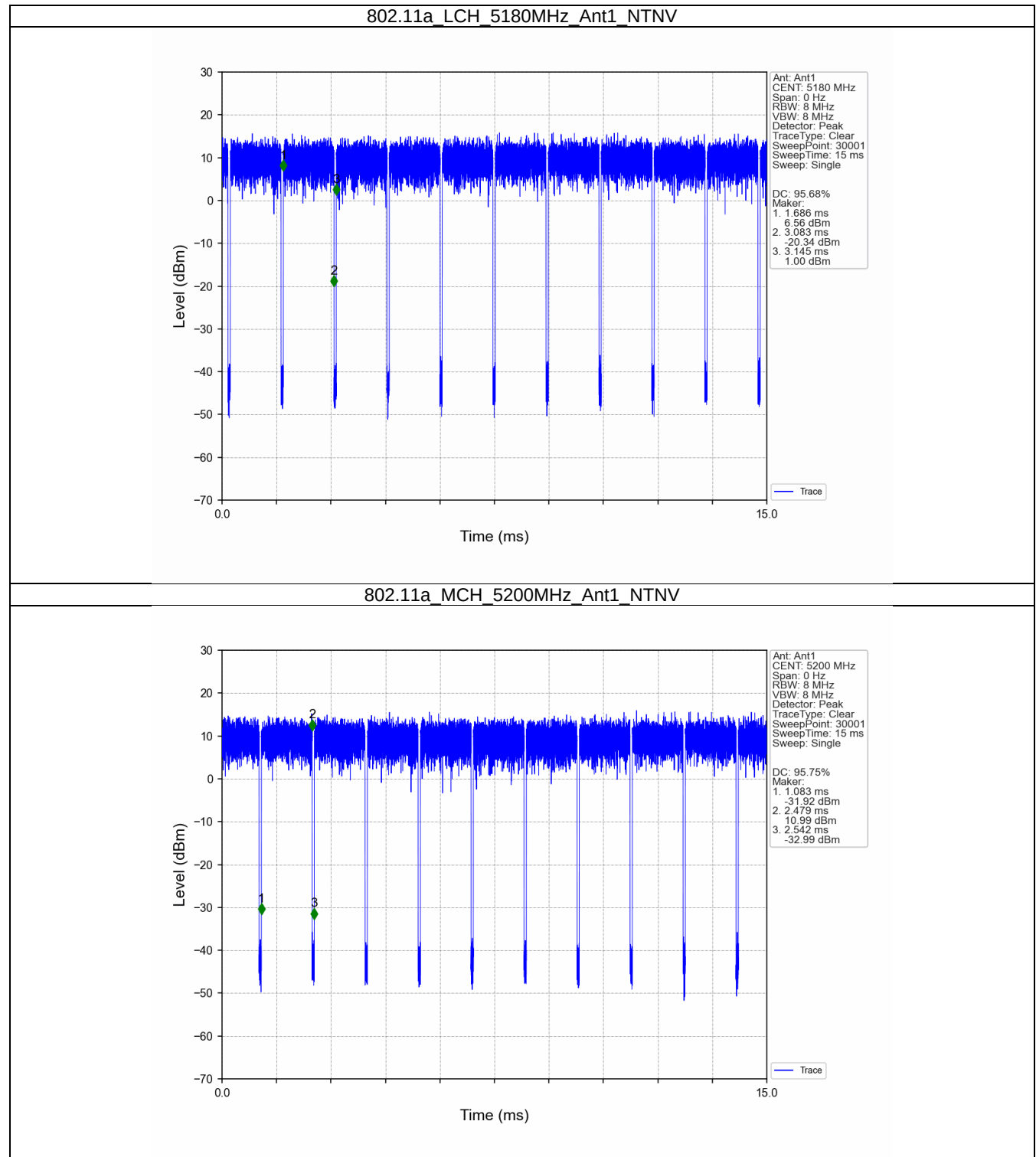
1.1 Test Result

1.1.1 Ant1

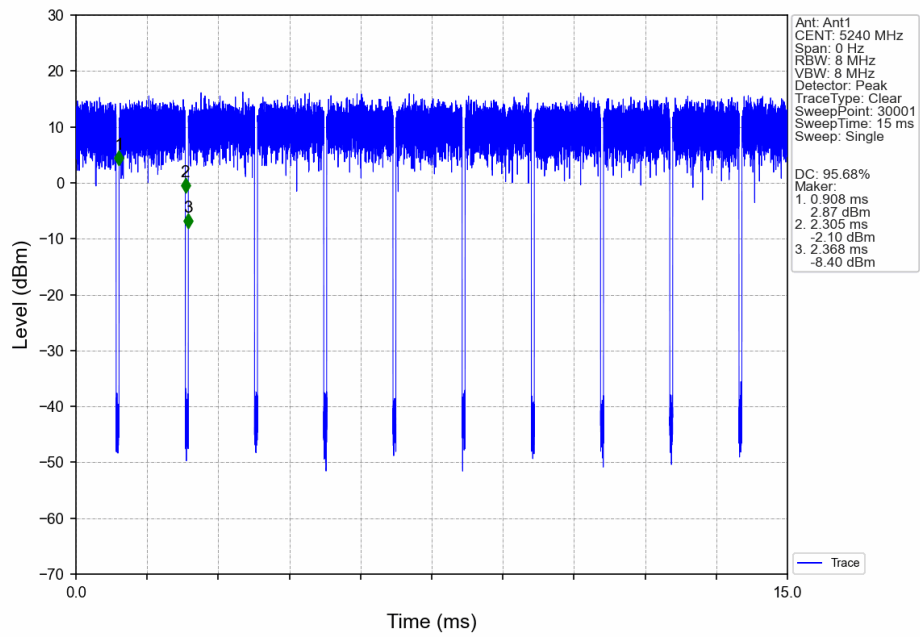
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.396	1.459	95.68	0.19	0.03
		5200	1.397	1.459	95.75	0.19	0.03
		5240	1.397	1.460	95.68	0.19	0.03
		5745	1.396	1.459	95.68	0.19	0.03
		5785	1.396	1.459	95.68	0.19	0.03
		5825	1.396	1.459	95.68	0.19	0.00
802.11n (HT20)	SISO	5180	1.181	1.244	94.94	0.23	0.73
		5200	1.181	1.244	94.94	0.23	0.70
		5240	1.181	1.244	94.94	0.23	0.03
		5745	1.181	1.244	94.94	0.23	0.70
		5785	1.181	1.244	94.94	0.23	0.03
		5825	1.181	1.244	94.94	0.23	0.03
802.11n (HT40)	SISO	5190	28.530	29.900	95.42	0.20	1.18
		5230	0.587	0.649	90.45	0.44	0.07
		5755	0.588	0.649	90.60	0.43	0.04
		5795	0.587	0.649	90.45	0.44	0.07
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
		5745	1.189	1.251	95.04	0.22	0.04
		5785	1.189	1.251	95.04	0.22	0.04
		5825	1.190	1.252	95.05	0.22	0.00
802.11ac (VHT40)	SISO	5190	0.653	0.777	84.04	0.76	0.03
		5230	0.595	0.657	90.56	0.43	1.31
		5755	0.595	0.657	90.56	0.43	0.04
		5795	0.595	0.675	88.15	0.55	3.68
802.11ac (VHT80)	SISO	5210	0.325	0.449	72.38	1.40	0.06
		5775	0.296	0.358	82.68	0.83	0.04

1.2 Test Graph

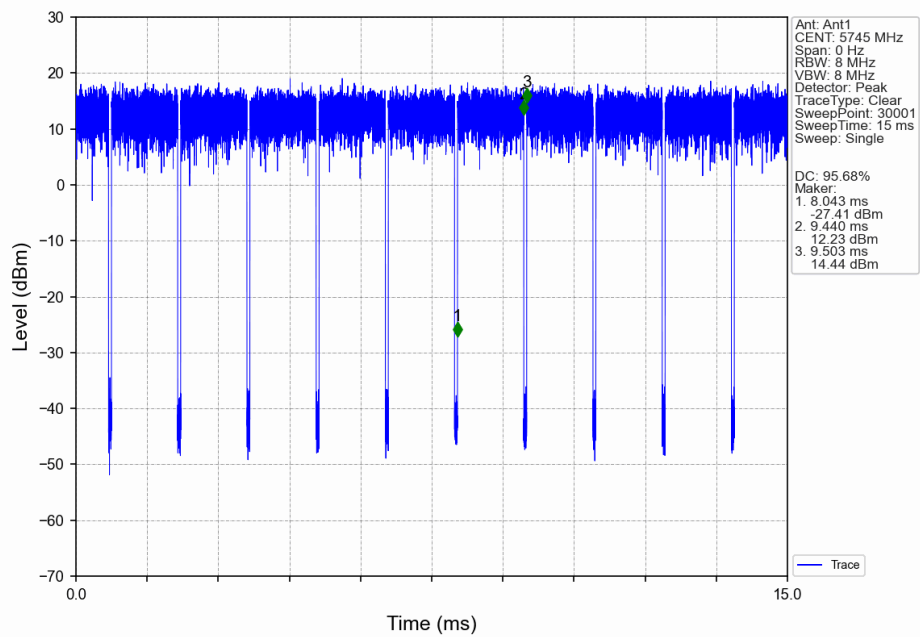
1.2.1 Ant1



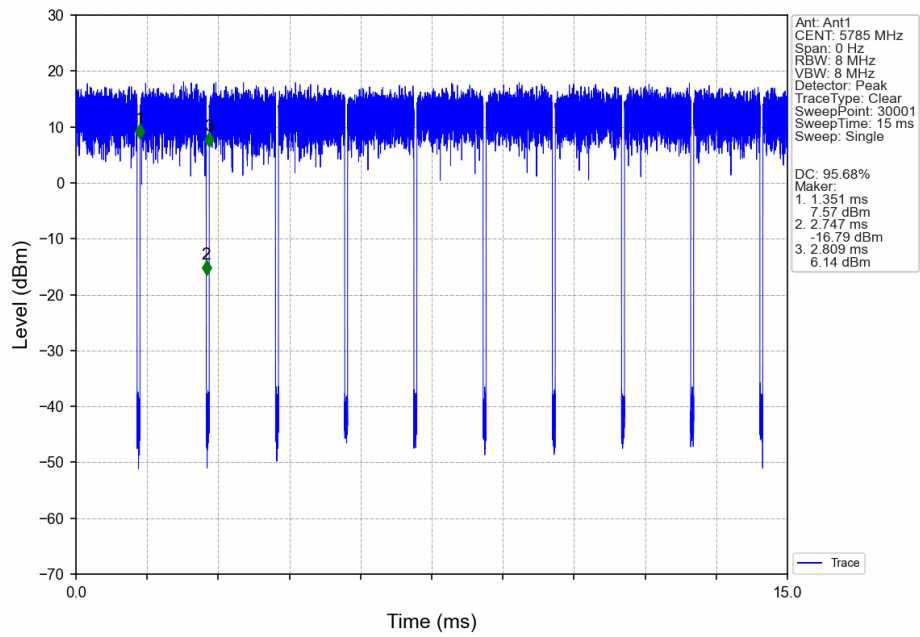
802.11a_HCH_5240MHz_Ant1_NTNV



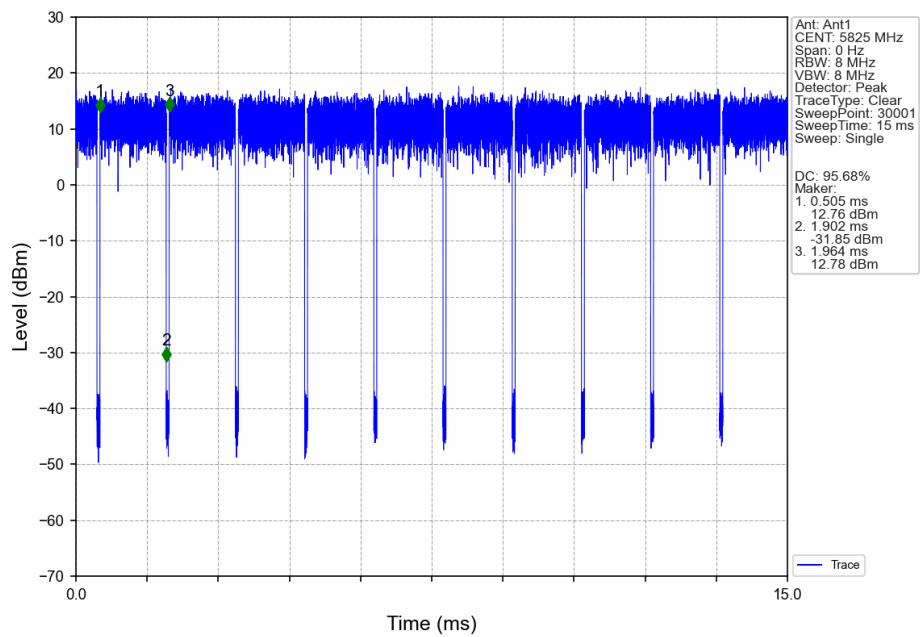
802.11a_LCH_5745MHz_Ant1_NTNV



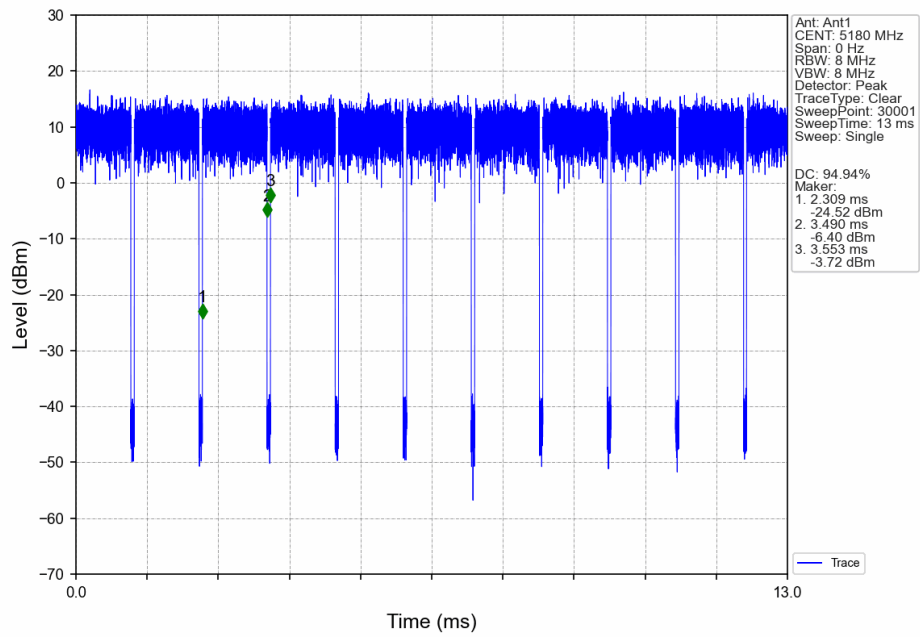
802.11a_MCH_5785MHz_Ant1_NTNV



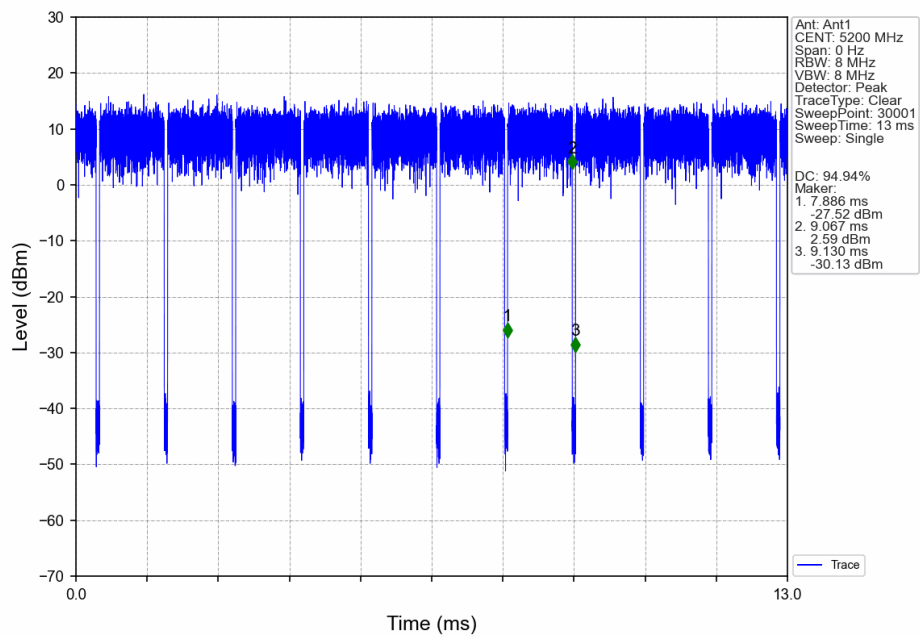
802.11a_HCH_5825MHz_Ant1_NTNV



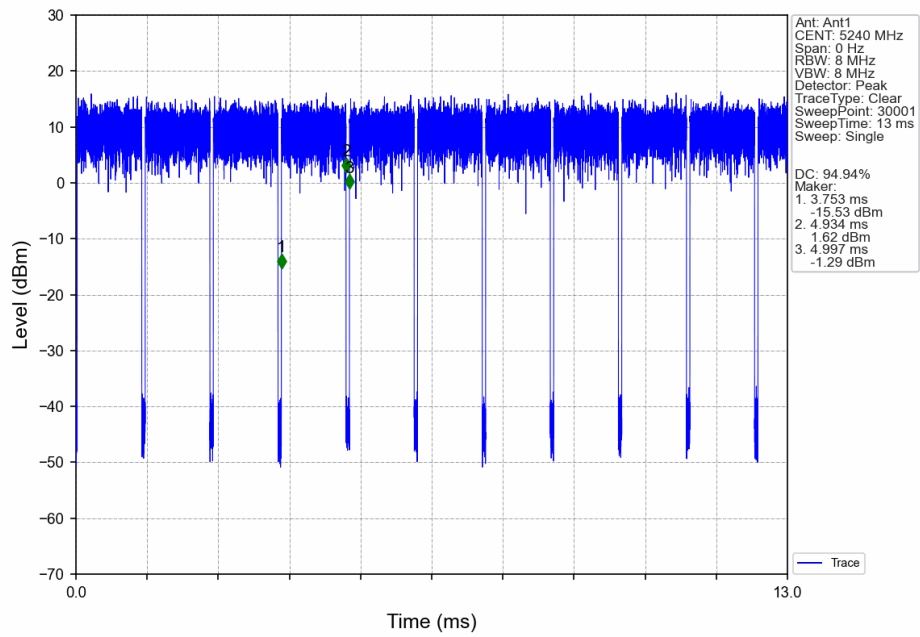
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



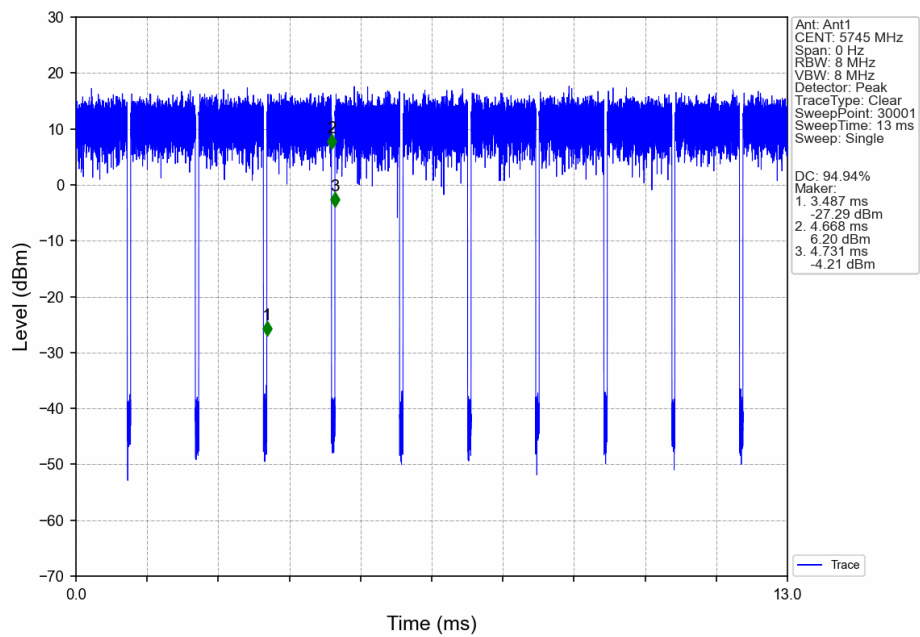
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



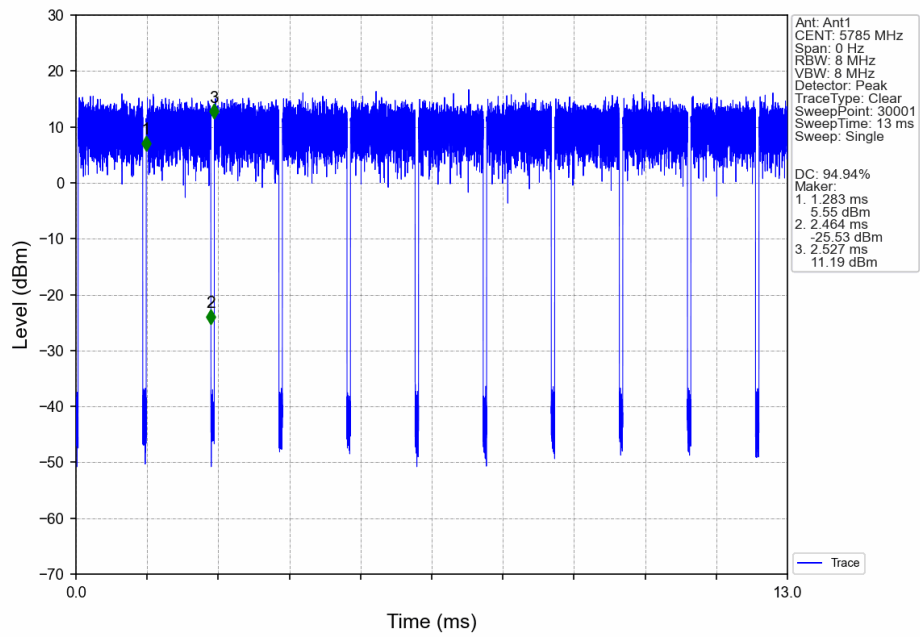
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



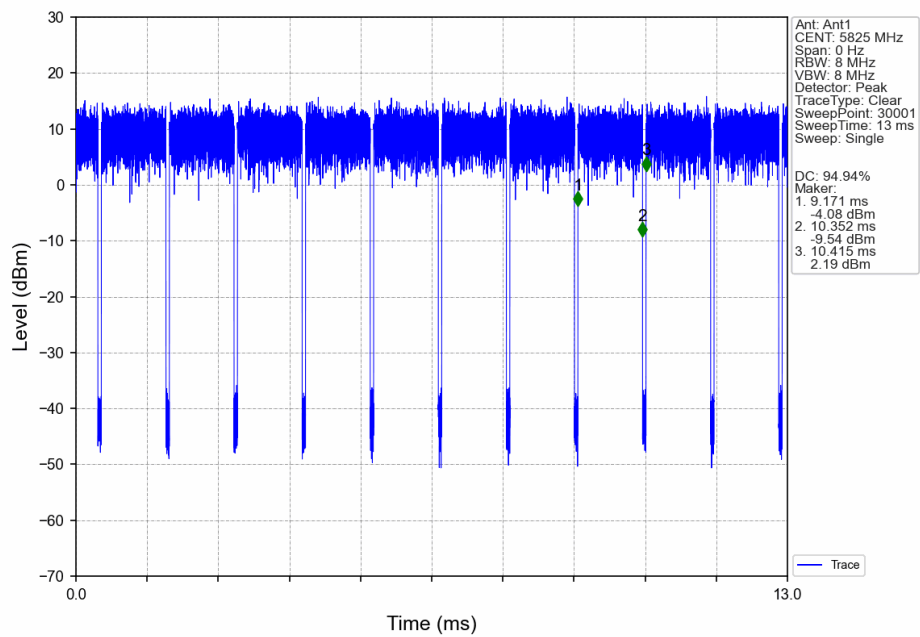
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



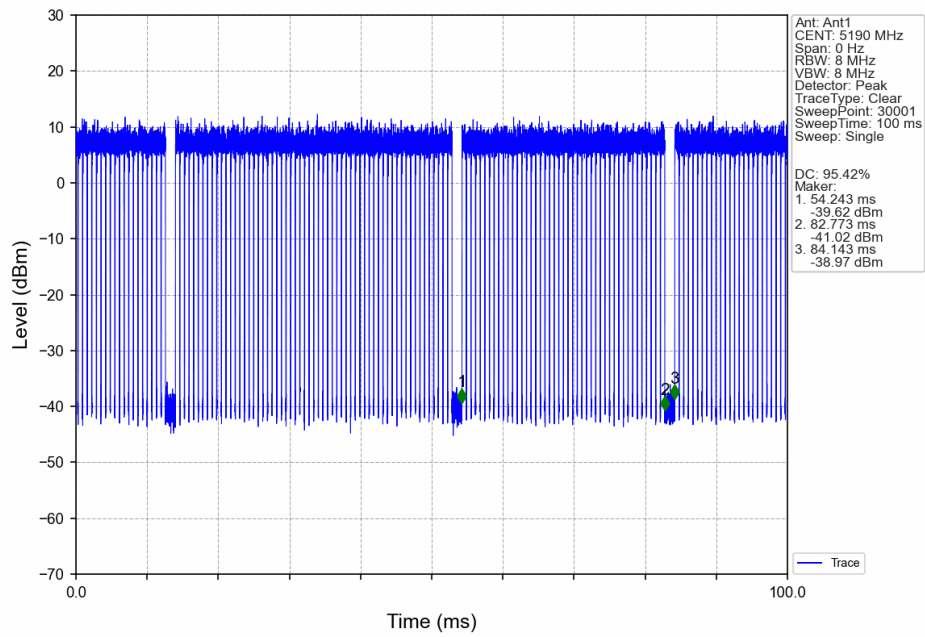
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



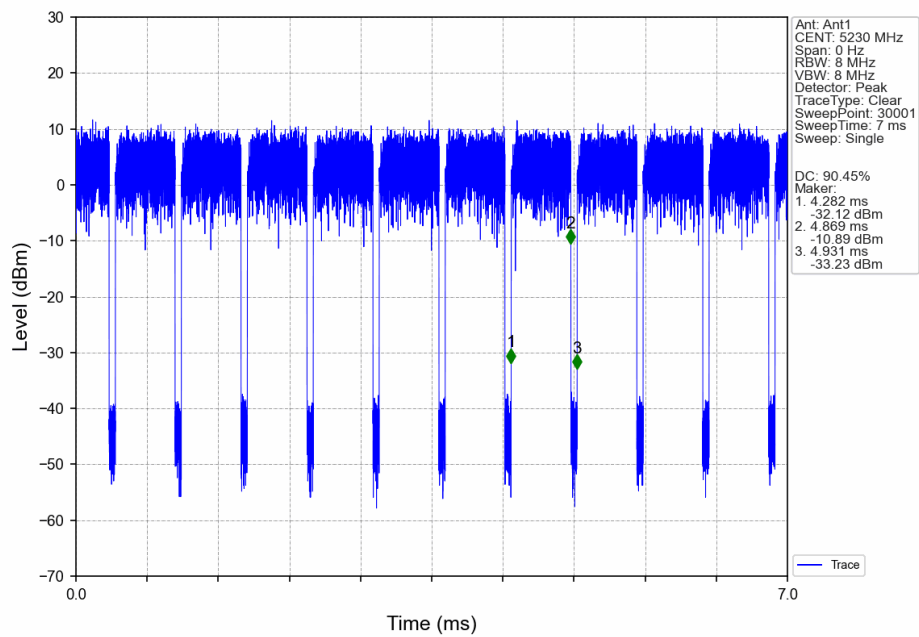
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



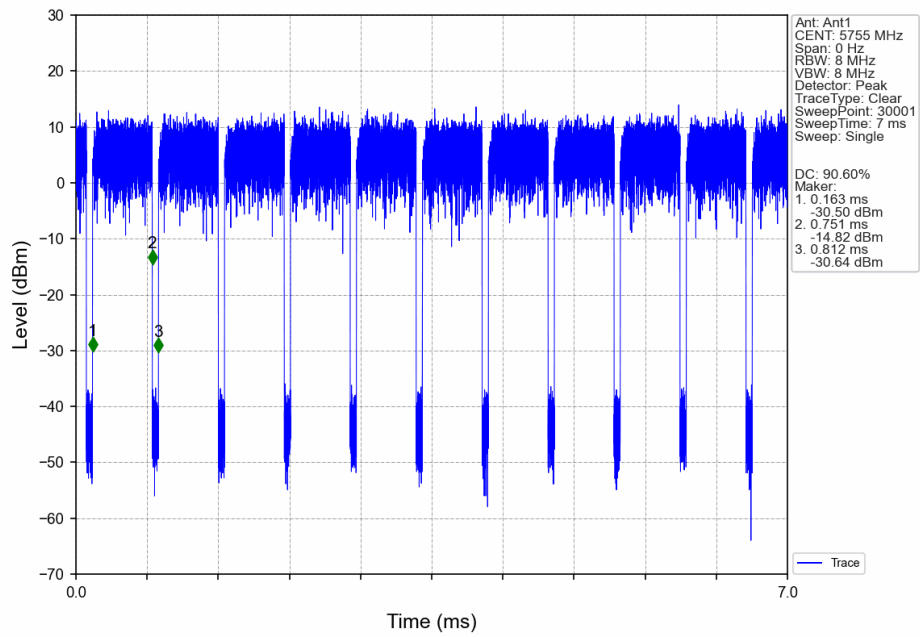
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



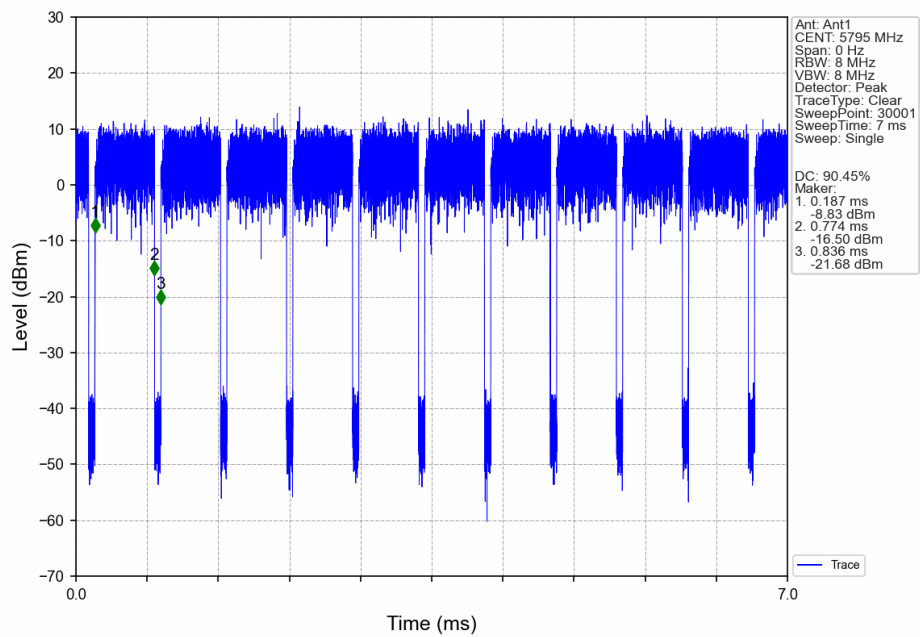
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



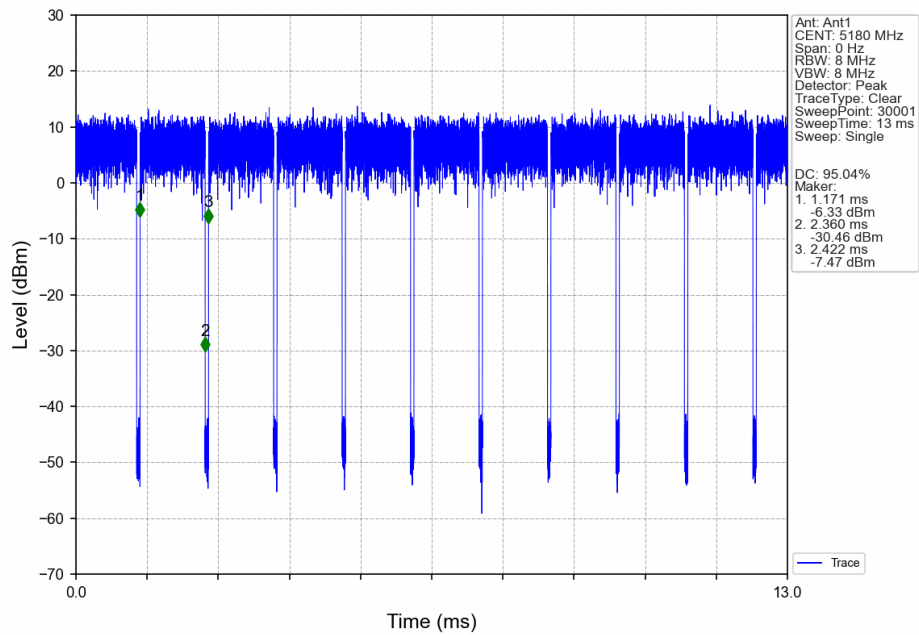
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



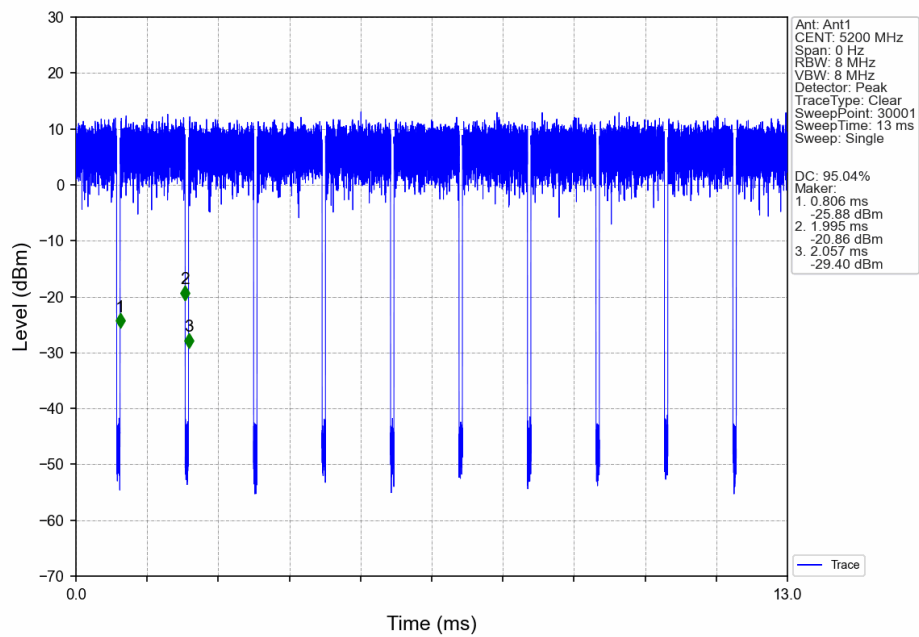
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



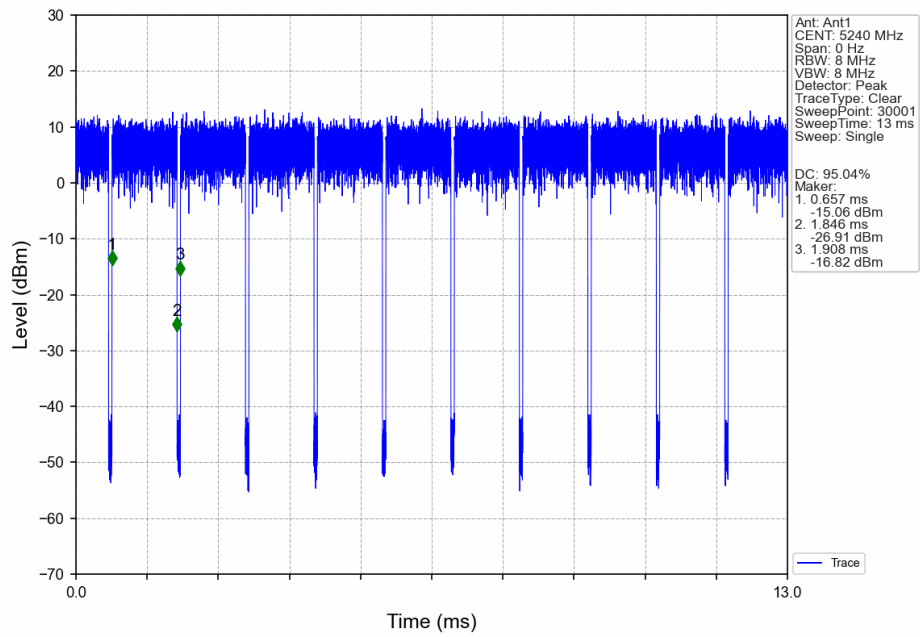
802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV



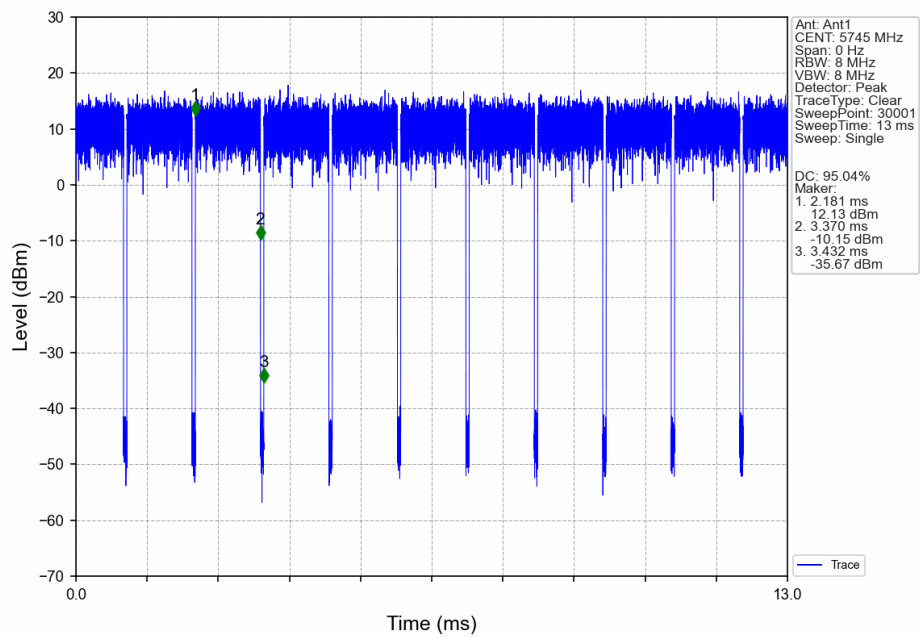
802.11ac(VHT20) MCH_5200MHz_Ant1_NTNV



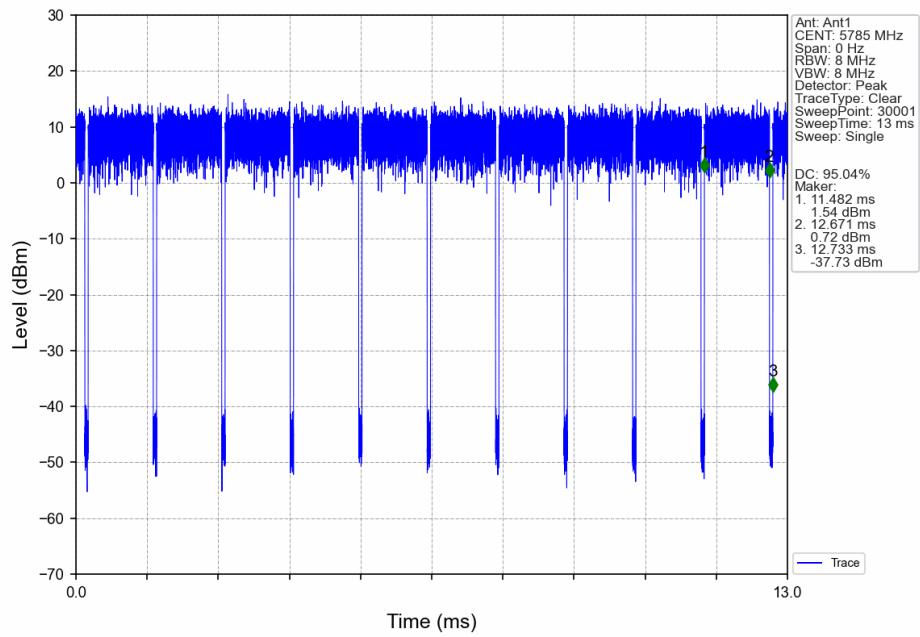
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



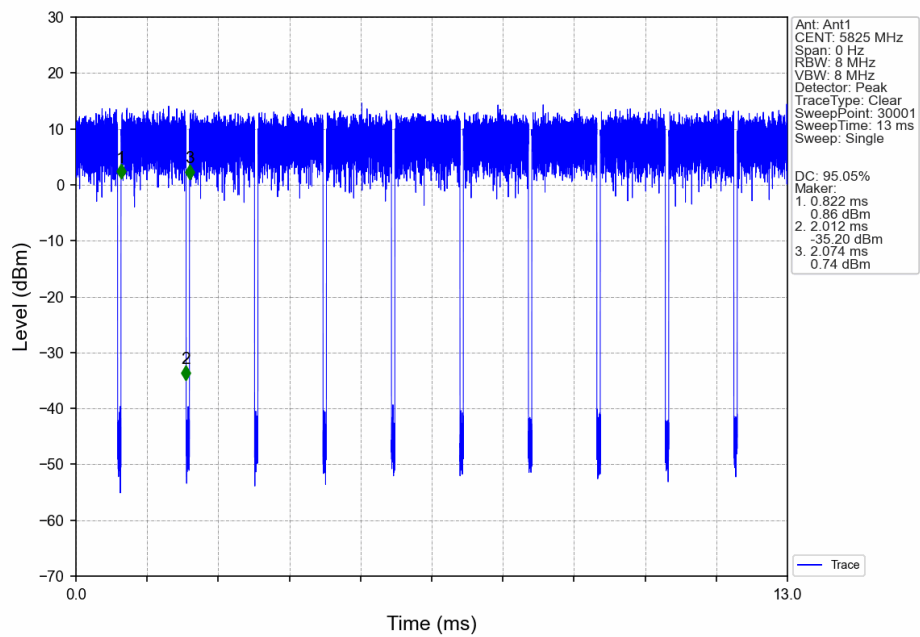
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



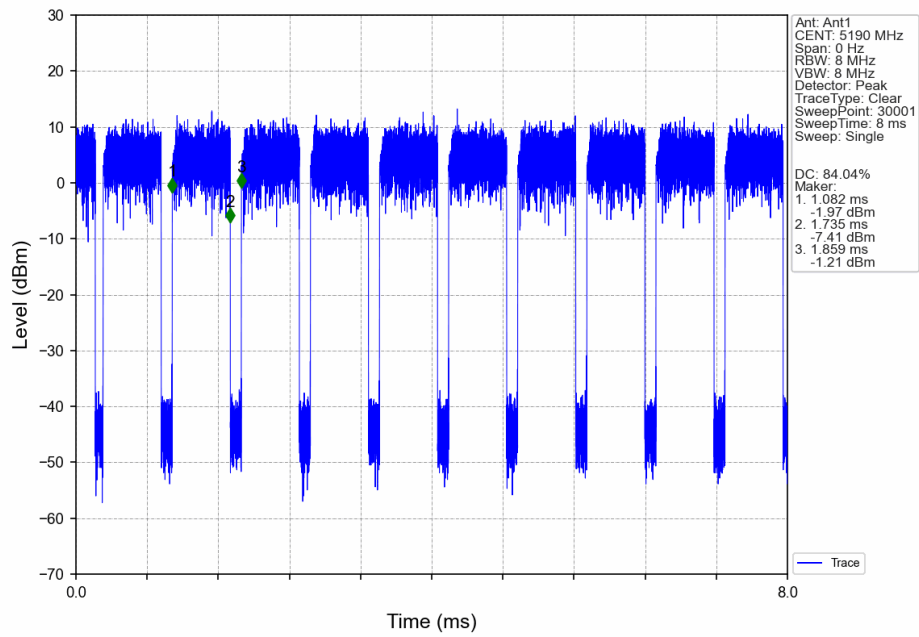
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



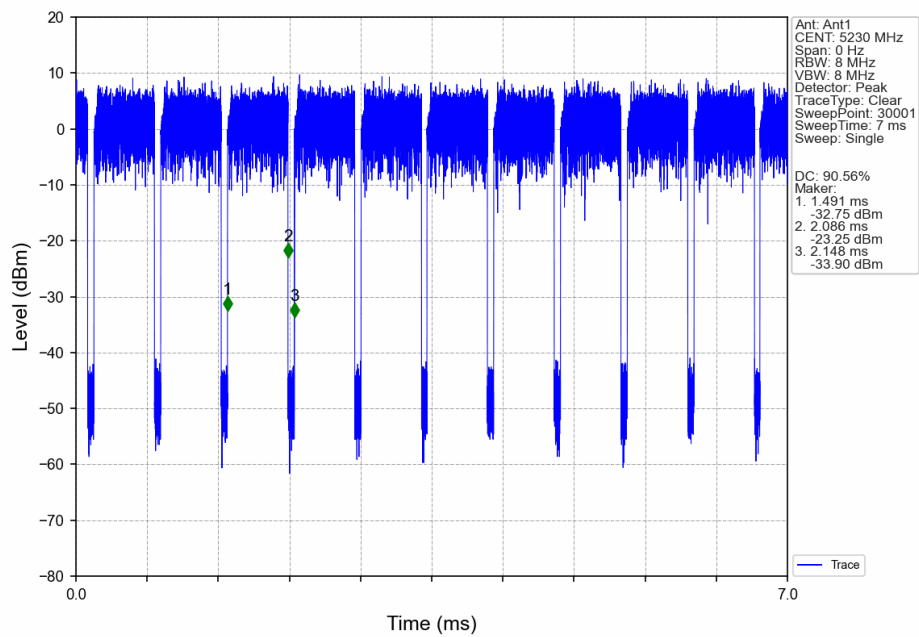
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



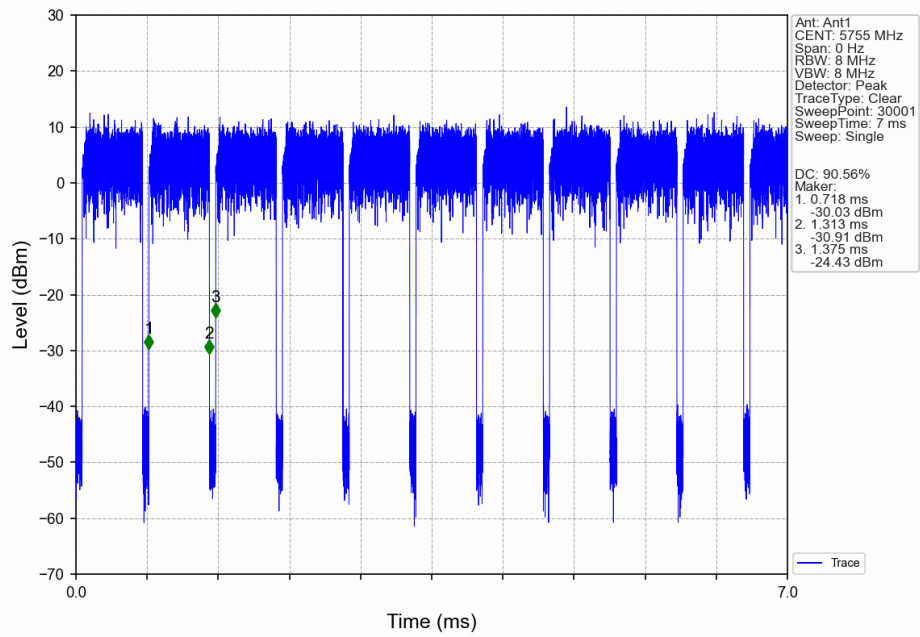
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



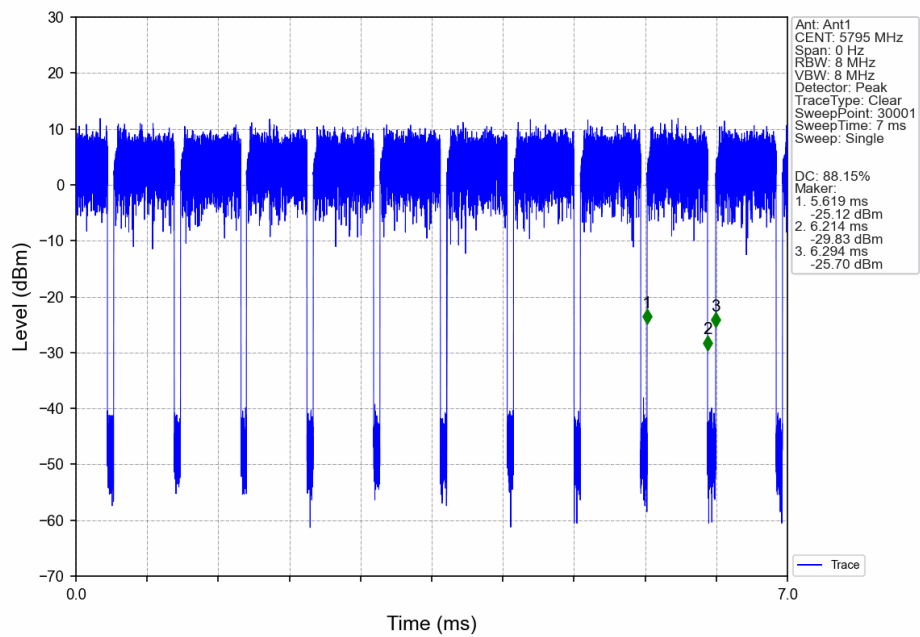
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



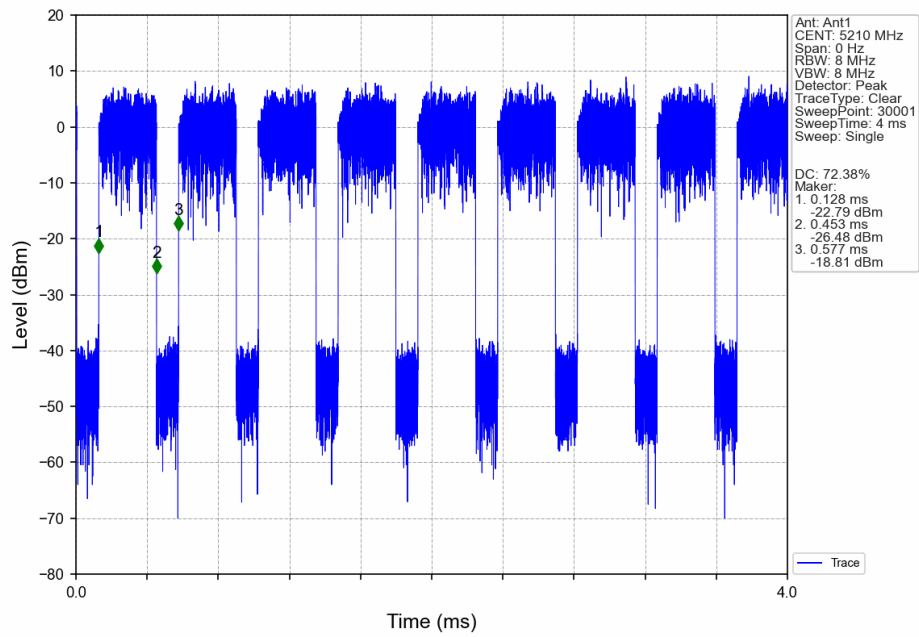
802.11ac(VHT40) LCH_5755MHz_Ant1_NTNV



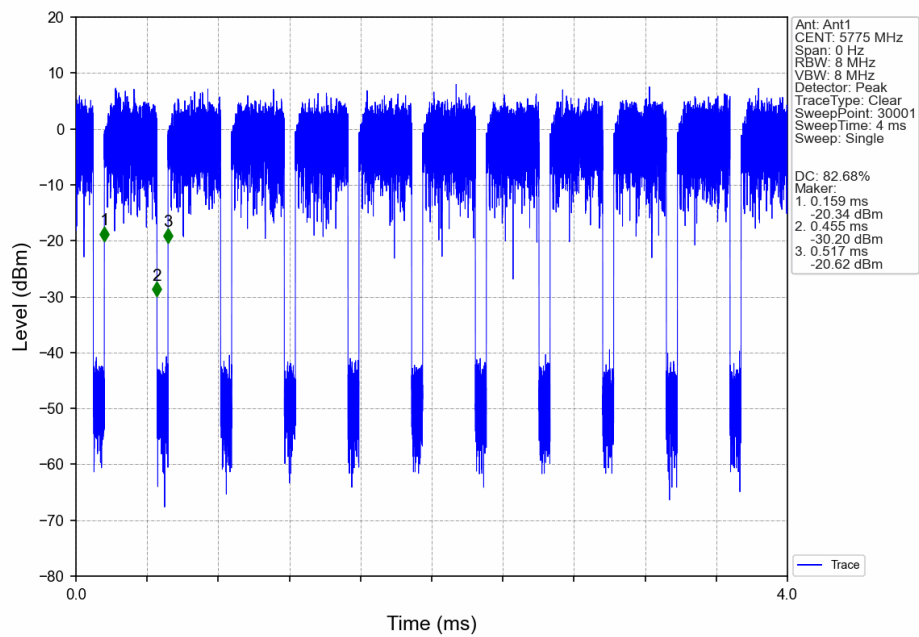
802.11ac(VHT40) HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_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	17.368	/	Pass
		5200	1	17.346	/	Pass
		5240	1	17.390	/	Pass
		5745	1	17.451	/	Pass
		5785	1	17.427	/	Pass
		5825	1	17.419	/	Pass
802.11n (HT20)	SISO	5180	1	18.075	/	Pass
		5200	1	18.063	/	Pass
		5240	1	18.060	/	Pass
		5745	1	18.167	/	Pass
		5785	1	18.105	/	Pass
		5825	1	18.080	/	Pass
802.11n (HT40)	SISO	5190	1	36.811	/	Pass
		5230	1	36.799	/	Pass
		5755	1	36.668	/	Pass
		5795	1	36.768	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.066	/	Pass
		5200	1	18.098	/	Pass
		5240	1	18.128	/	Pass
		5745	1	18.091	/	Pass
		5785	1	18.105	/	Pass
		5825	1	18.082	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.751	/	Pass
		5230	1	36.786	/	Pass
		5755	1	36.683	/	Pass
		5795	1	36.709	/	Pass
802.11ac (VHT80)	SISO	5210	1	76.425	/	Pass
		5775	1	76.463	/	Pass

2.1.2 26dB BW

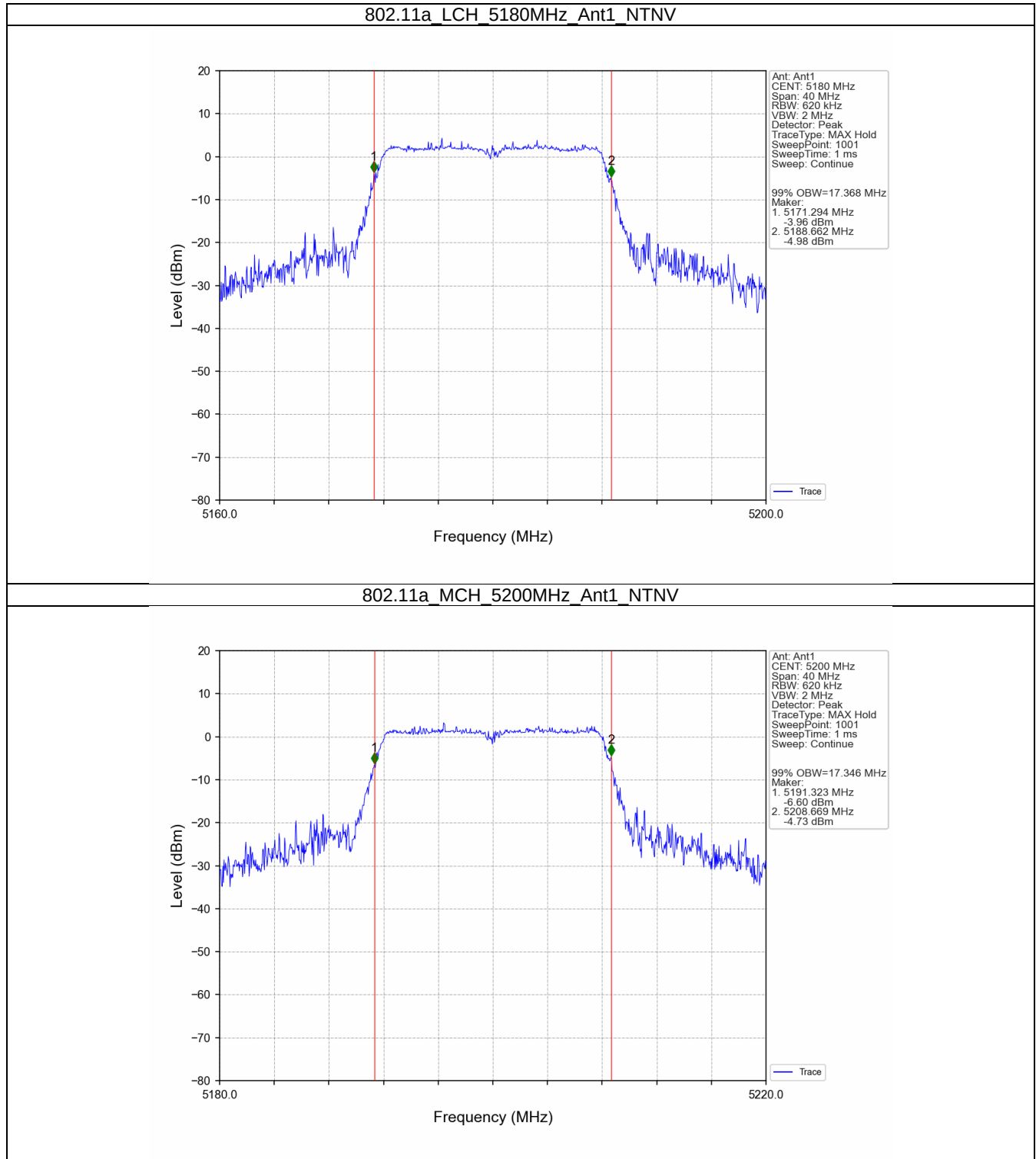
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	27.799	/	Pass
		5200	1	24.225	/	Pass
		5240	1	27.847	/	Pass
802.11n (HT20)	SISO	5180	1	30.710	/	Pass
		5200	1	30.999	/	Pass
		5240	1	34.559	/	Pass
802.11n (HT40)	SISO	5190	1	53.951	/	Pass
		5230	1	52.459	/	Pass
802.11ac (VHT20)	SISO	5180	1	26.925	/	Pass
		5200	1	30.118	/	Pass
		5240	1	24.940	/	Pass
802.11ac (VHT40)	SISO	5190	1	48.546	/	Pass
		5230	1	55.844	/	Pass
802.11ac (VHT80)	SISO	5210	1	88.657	/	Pass

2.1.3 6dB BW

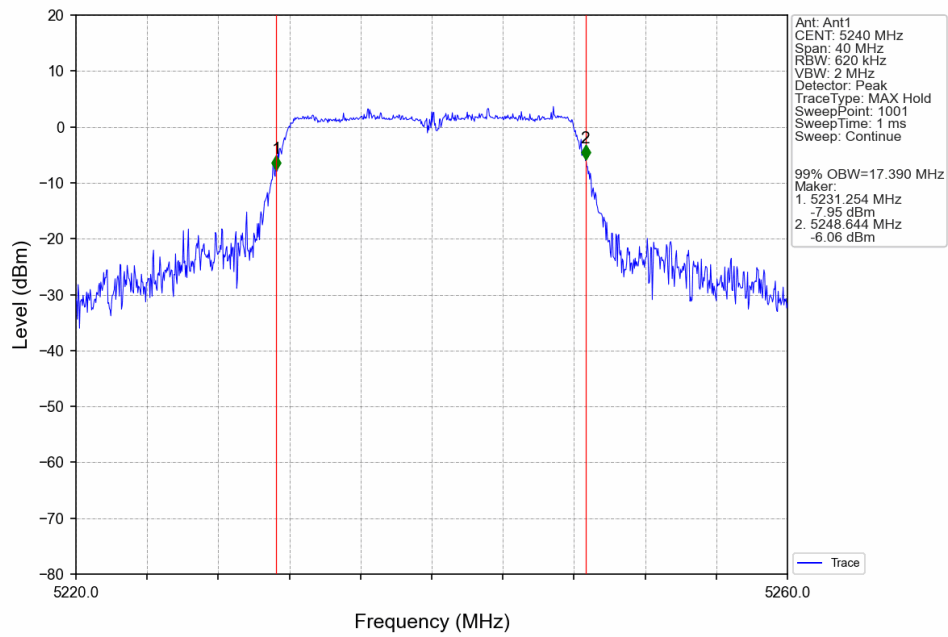
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.365	≥ 0.5	Pass
		5785	1	16.366	≥ 0.5	Pass
		5825	1	16.395	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.571	≥ 0.5	Pass
		5785	1	17.349	≥ 0.5	Pass
		5825	1	17.554	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.250	≥ 0.5	Pass
		5795	1	36.197	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.342	≥ 0.5	Pass
		5785	1	17.546	≥ 0.5	Pass
		5825	1	17.414	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.250	≥ 0.5	Pass
		5795	1	36.133	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.782	≥ 0.5	Pass

2.2 Test Graph

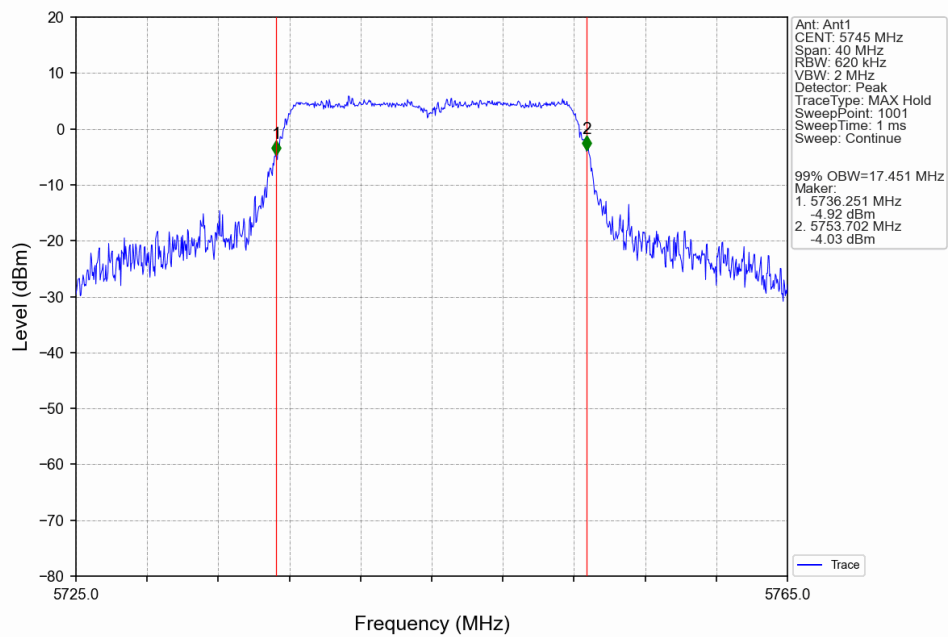
2.2.1 OBW



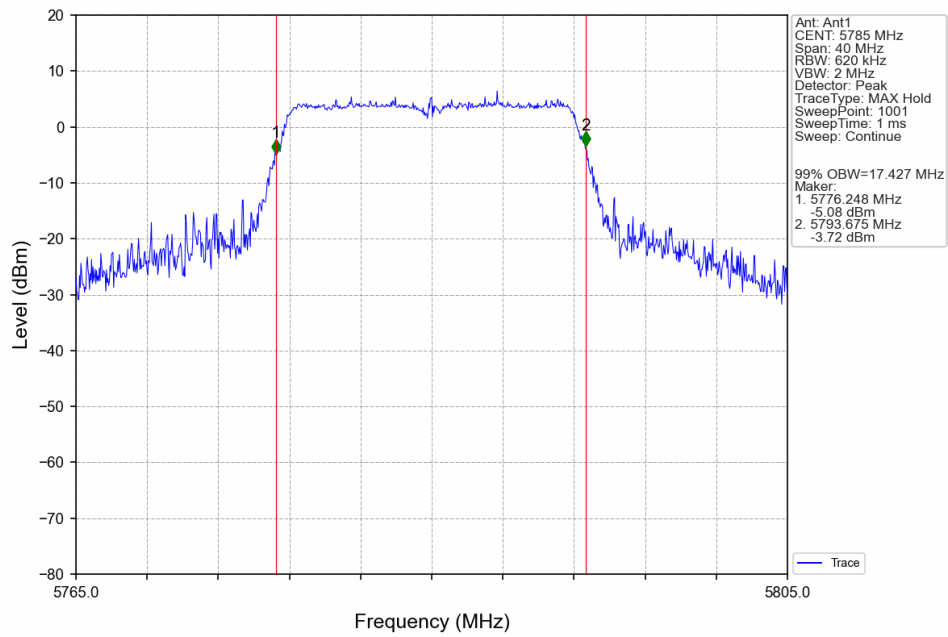
802.11a_HCH_5240MHz_Ant1_NTNV



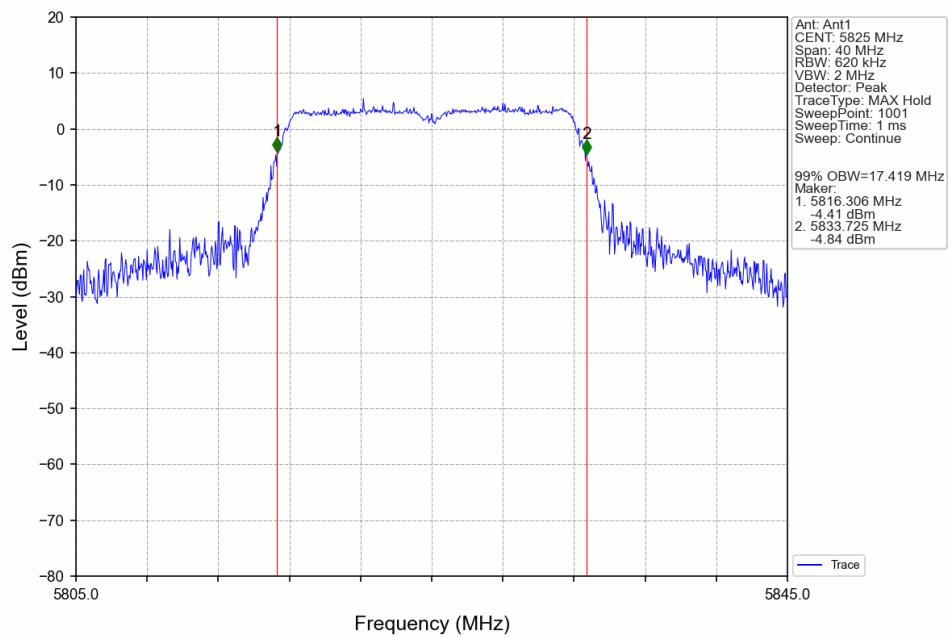
802.11a_LCH_5745MHz_Ant1_NTNV



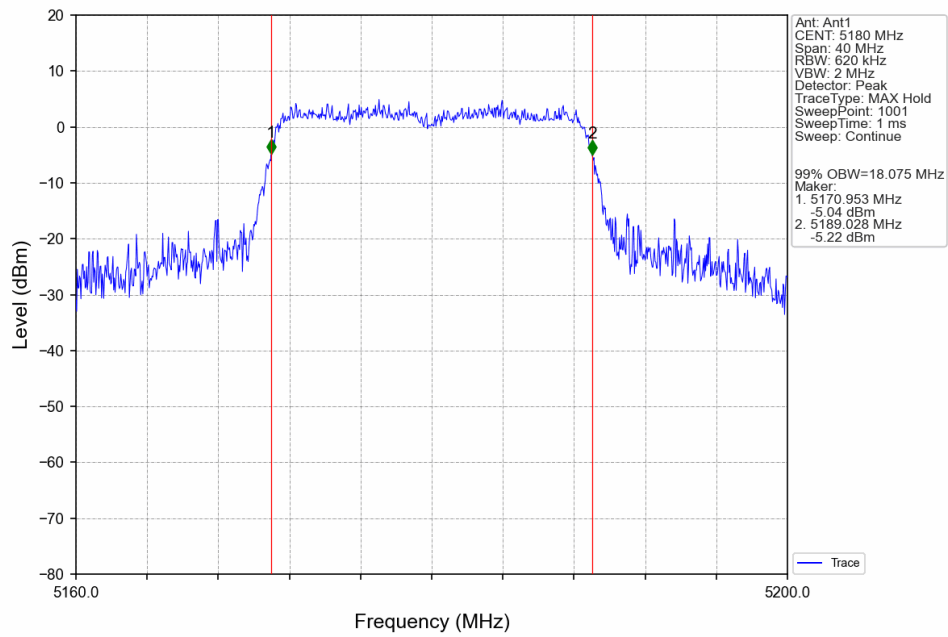
802.11a_MCH_5785MHz_Ant1_NTNV



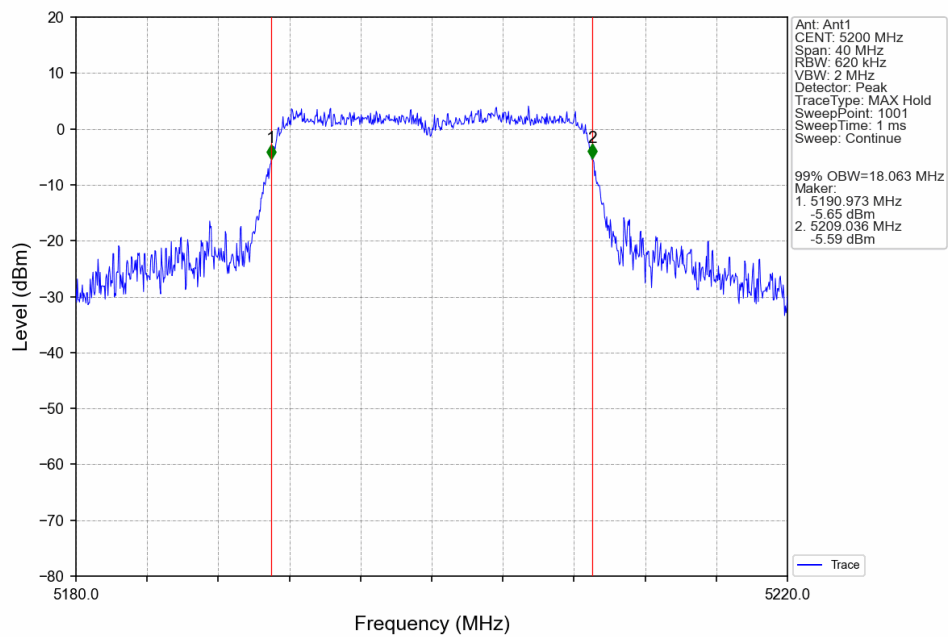
802.11a_HCH_5825MHz_Ant1_NTNV



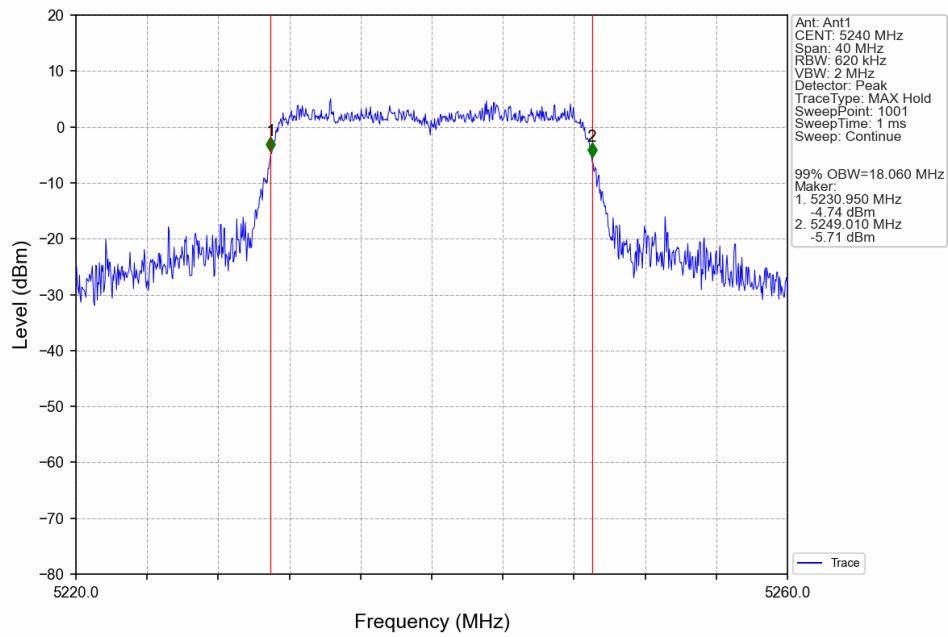
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



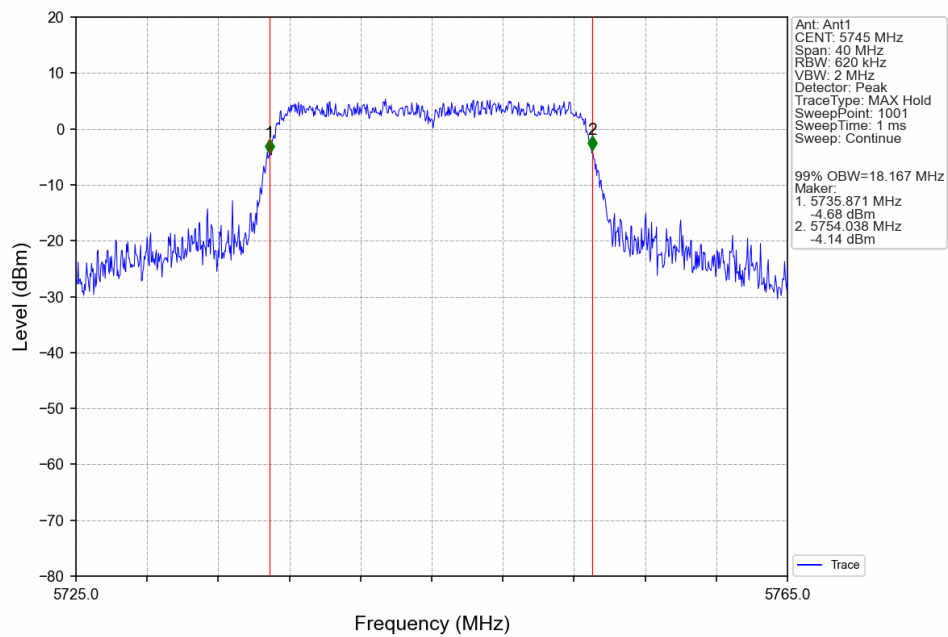
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



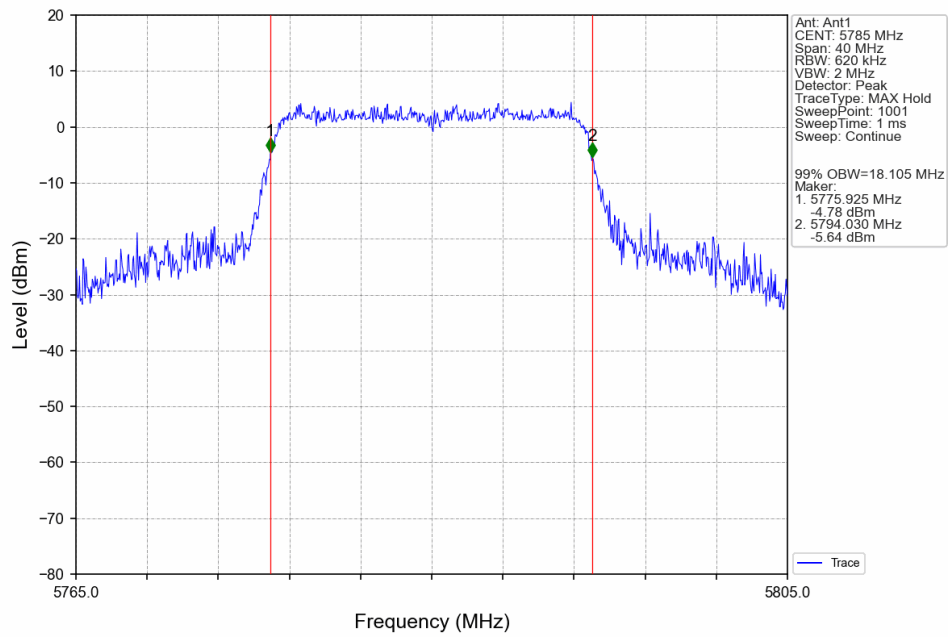
802.11n(HT20) HCH 5240MHz Ant1_NTNV



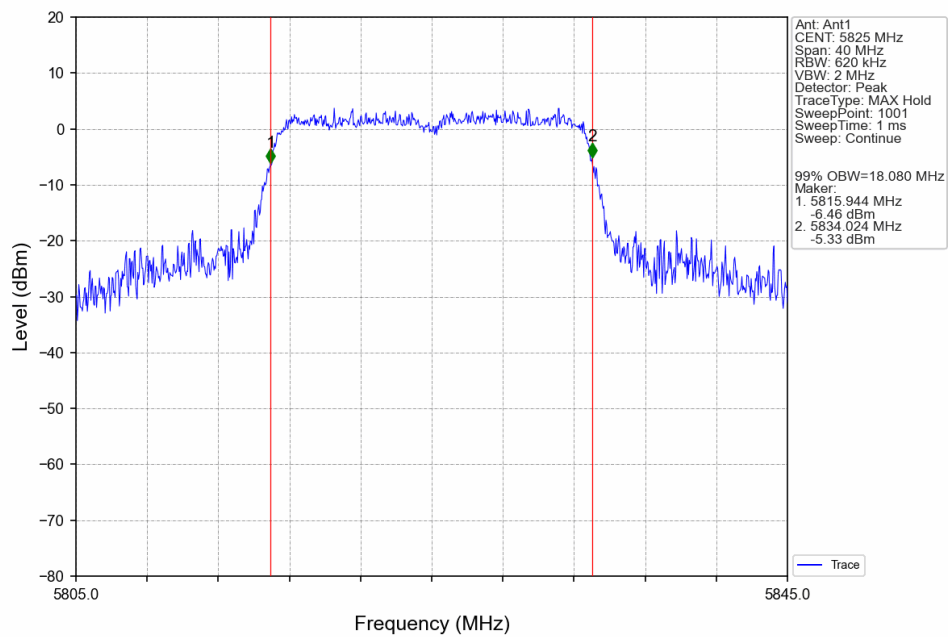
802.11n(HT20) LCH 5745MHz Ant1_NTNV



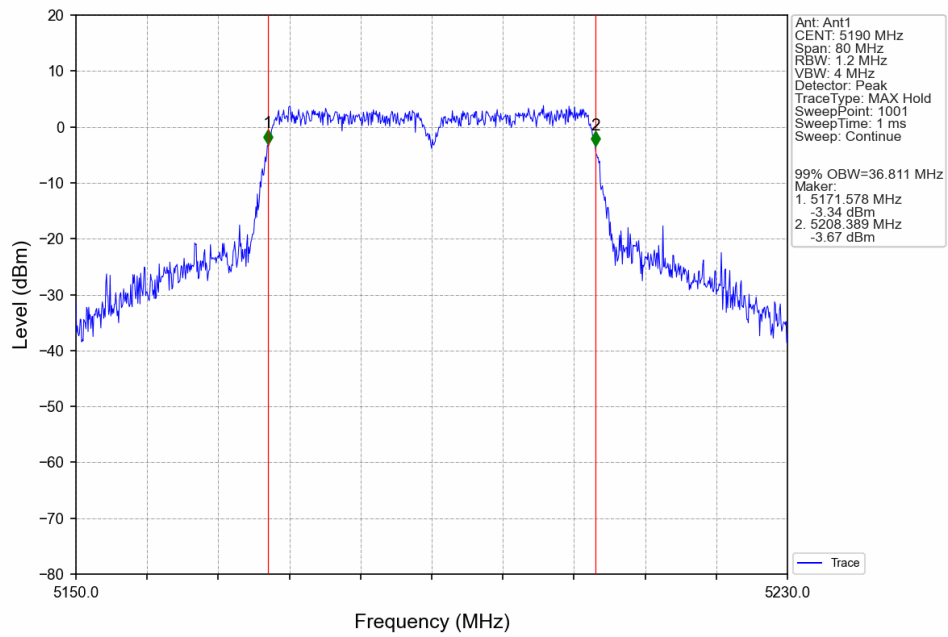
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



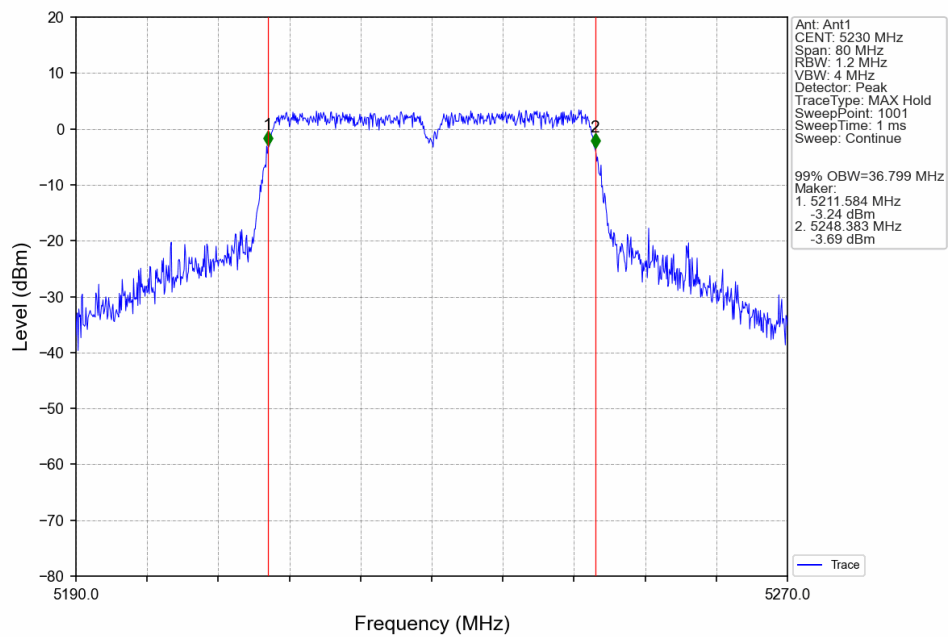
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



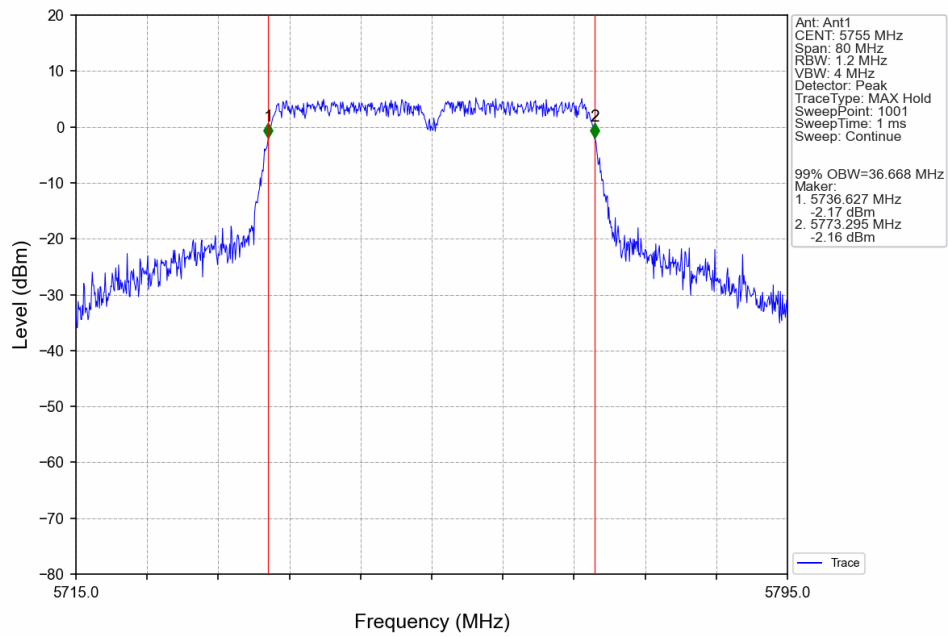
802.11n(HT40) LCH 5190MHz Ant1_NTNV



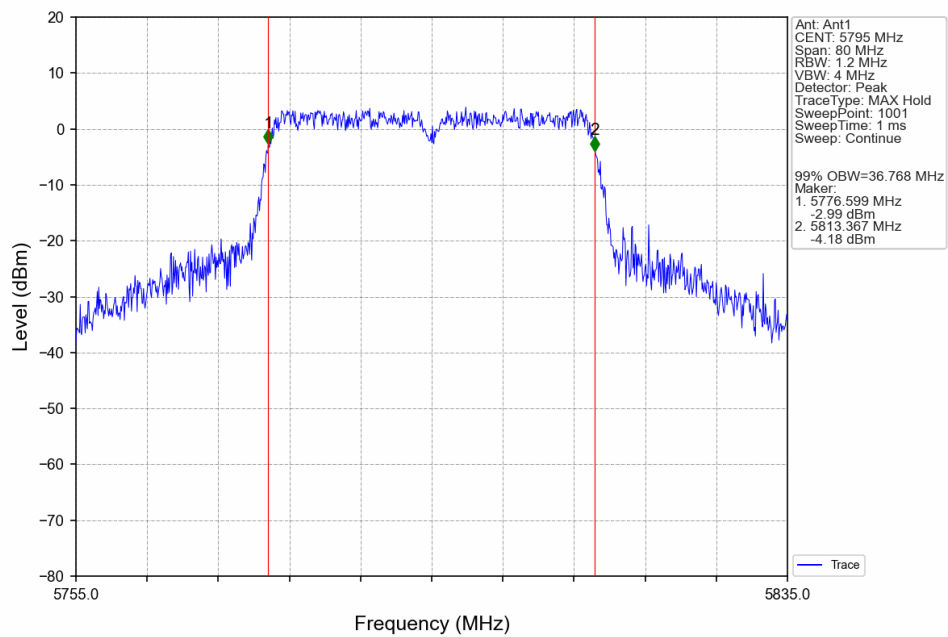
802.11n(HT40) HCH 5230MHz Ant1_NTNV



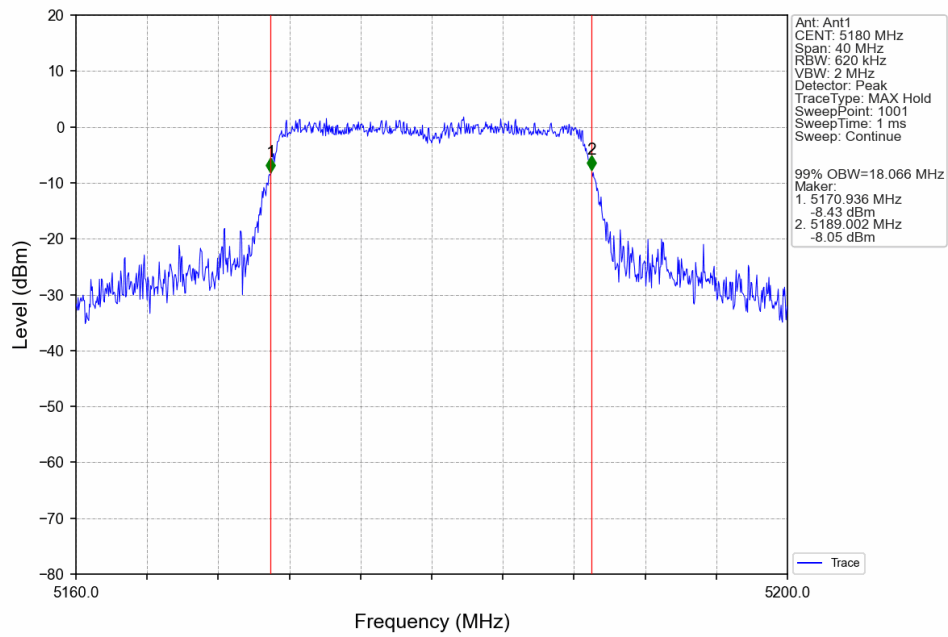
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



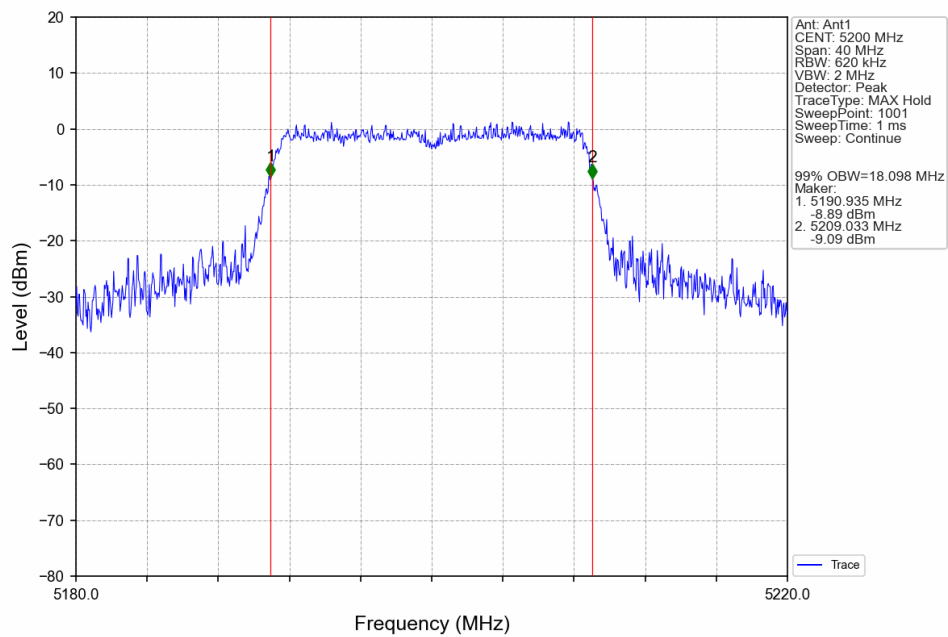
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



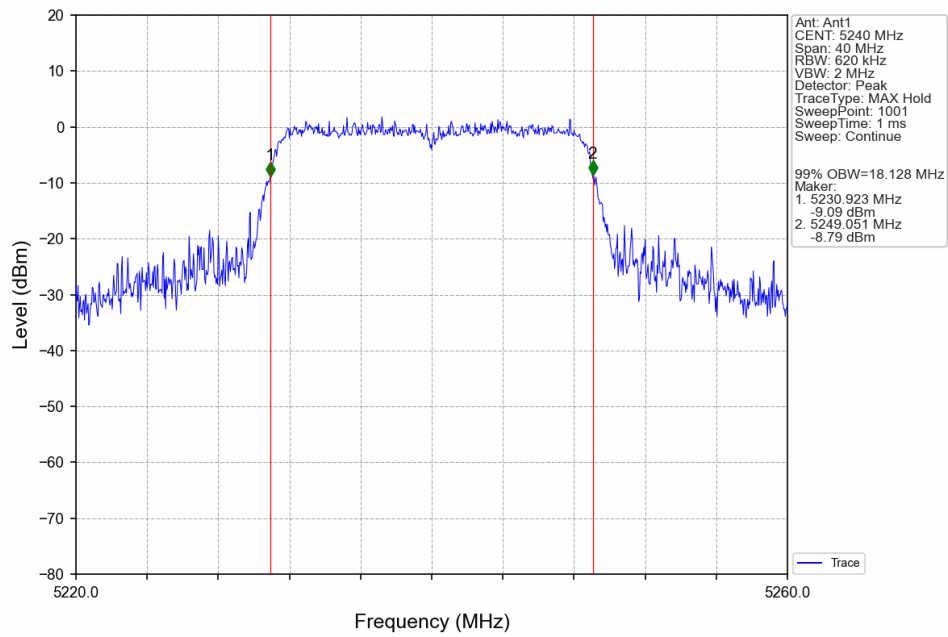
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



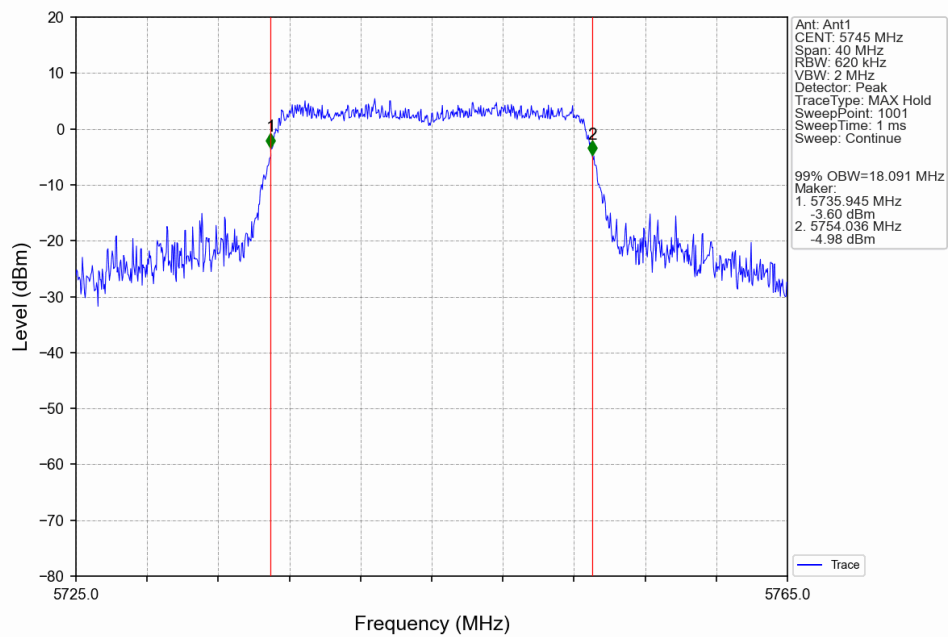
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



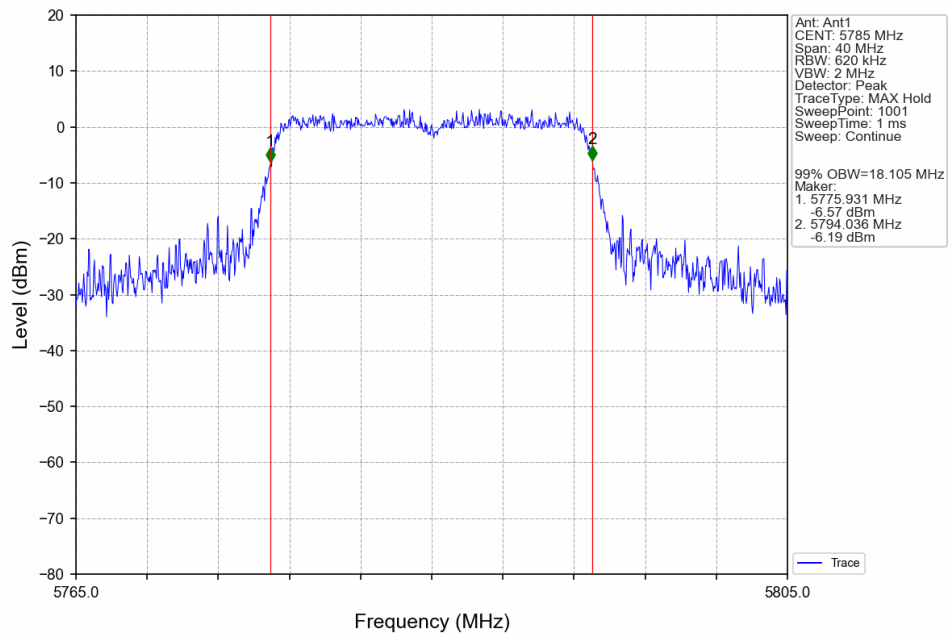
802.11ac(VHT20) HCH_5240MHz_Ant1_NTNV



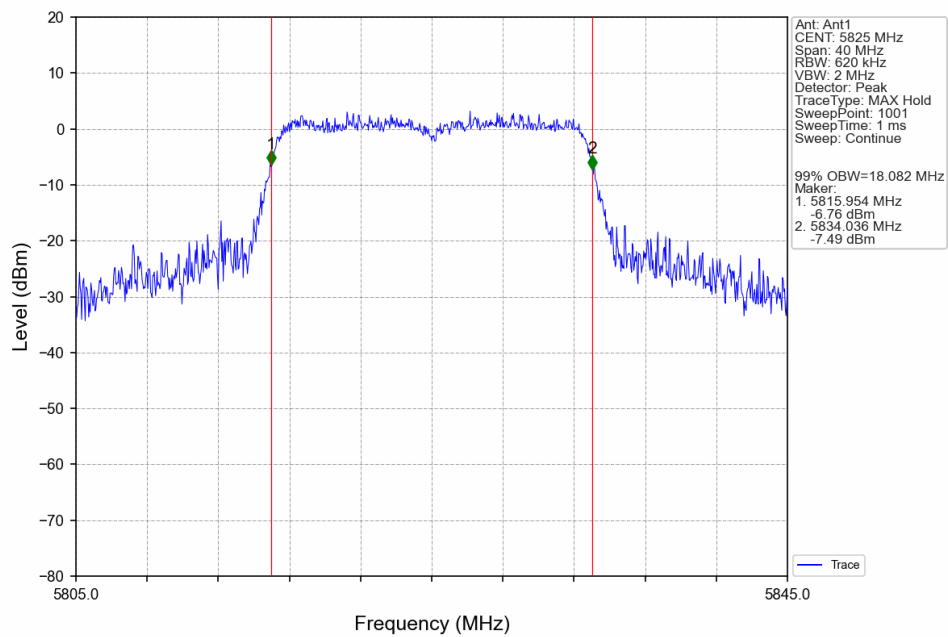
802.11ac(VHT20) LCH_5745MHz_Ant1_NTNV



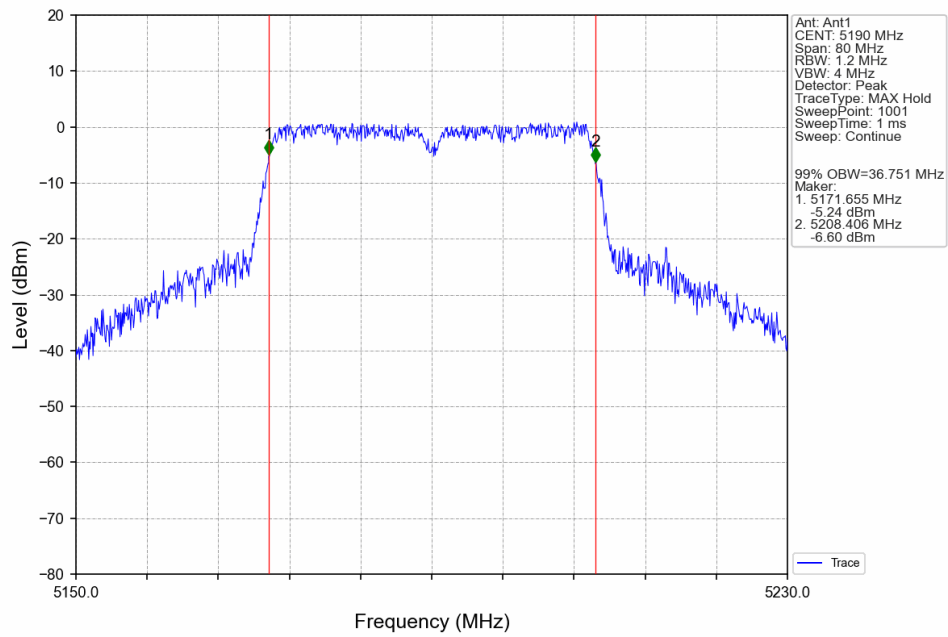
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



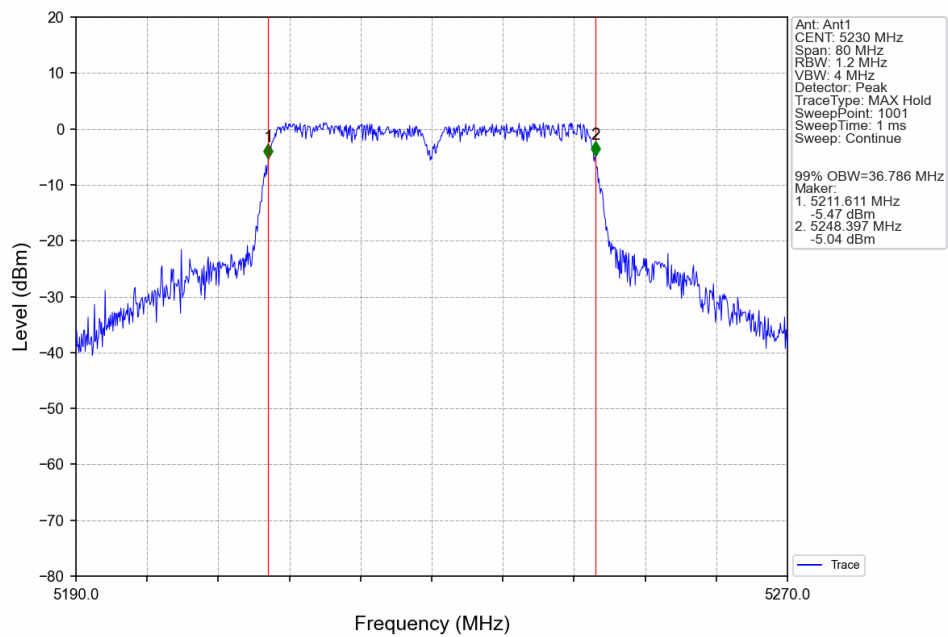
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



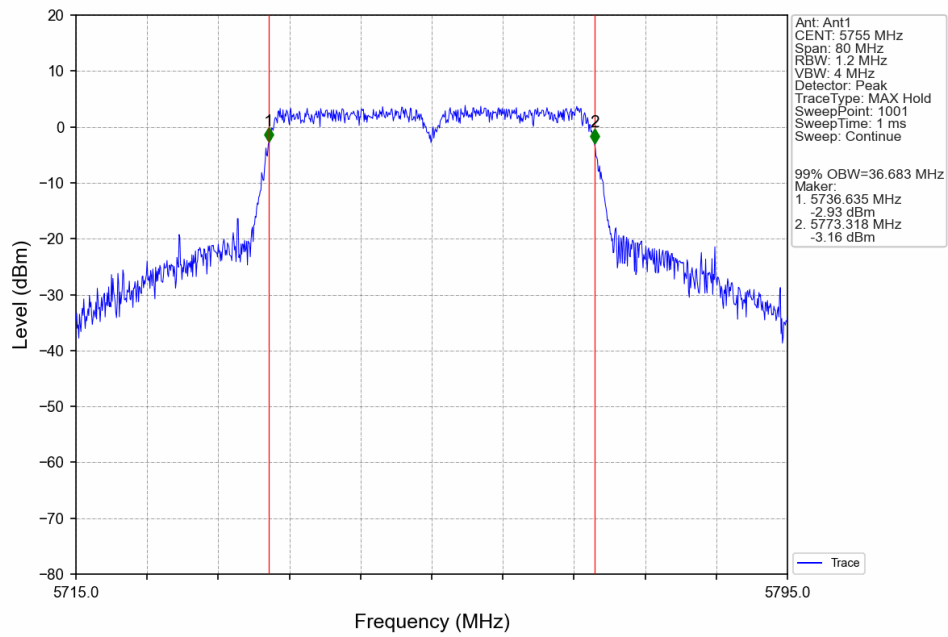
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



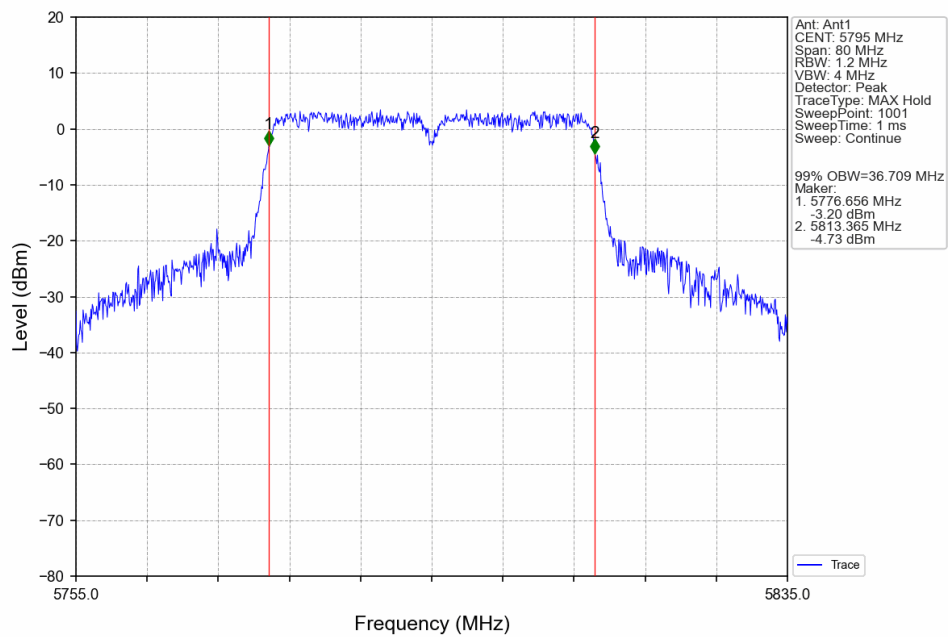
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



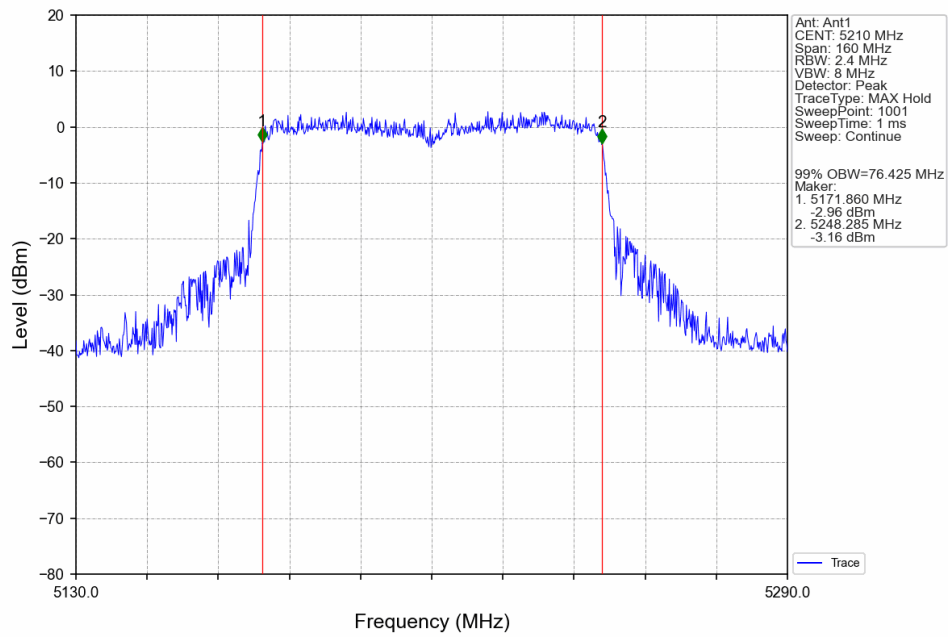
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



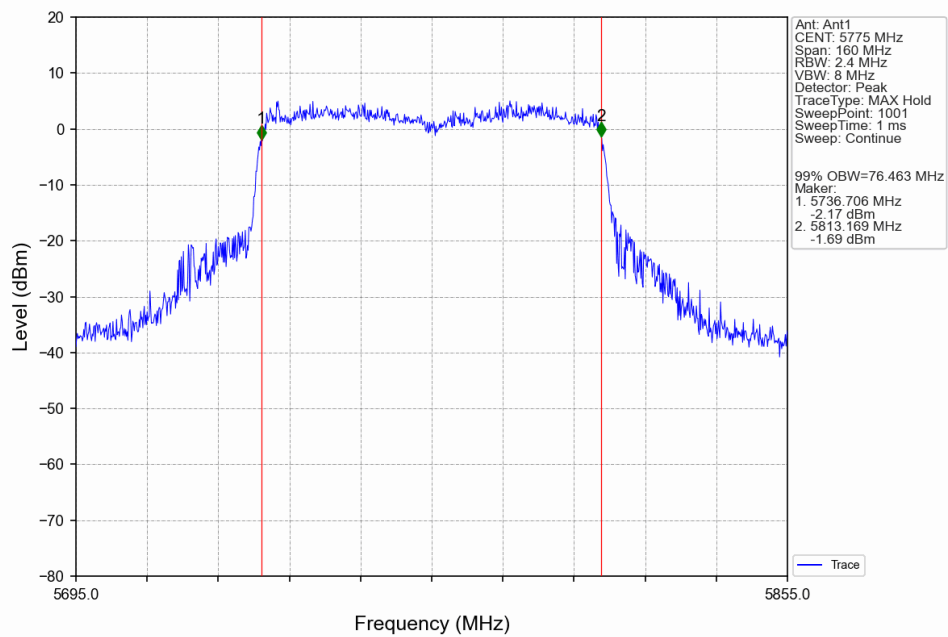
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

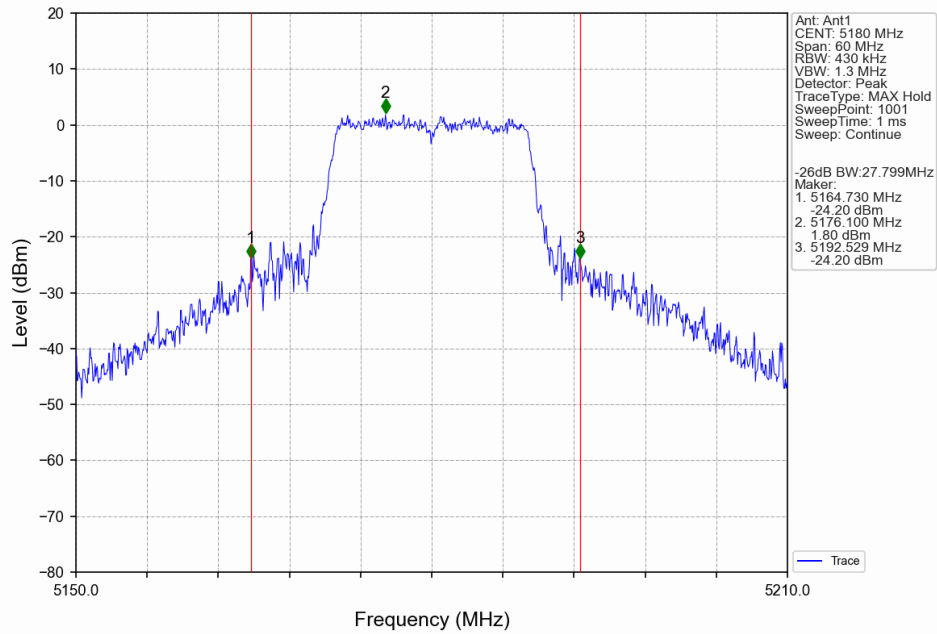


802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

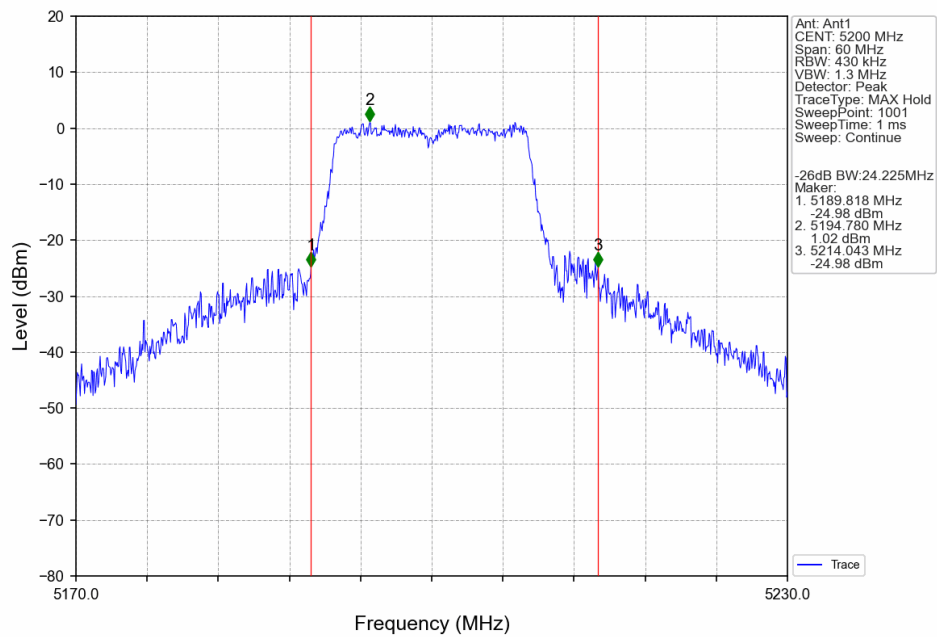


2.2.2 26dB BW

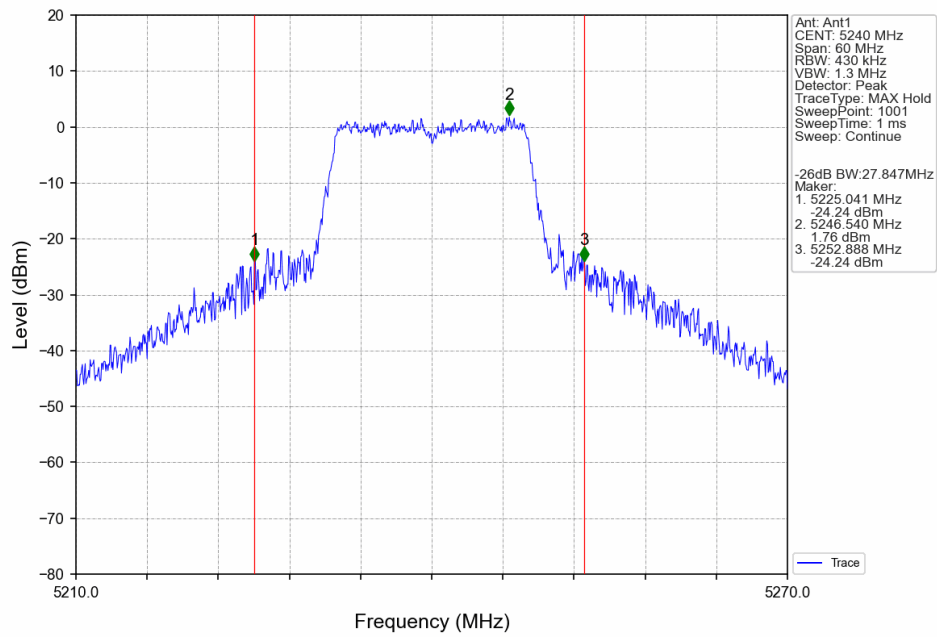
802.11a_LCH_5180MHz_Ant1_NTNV



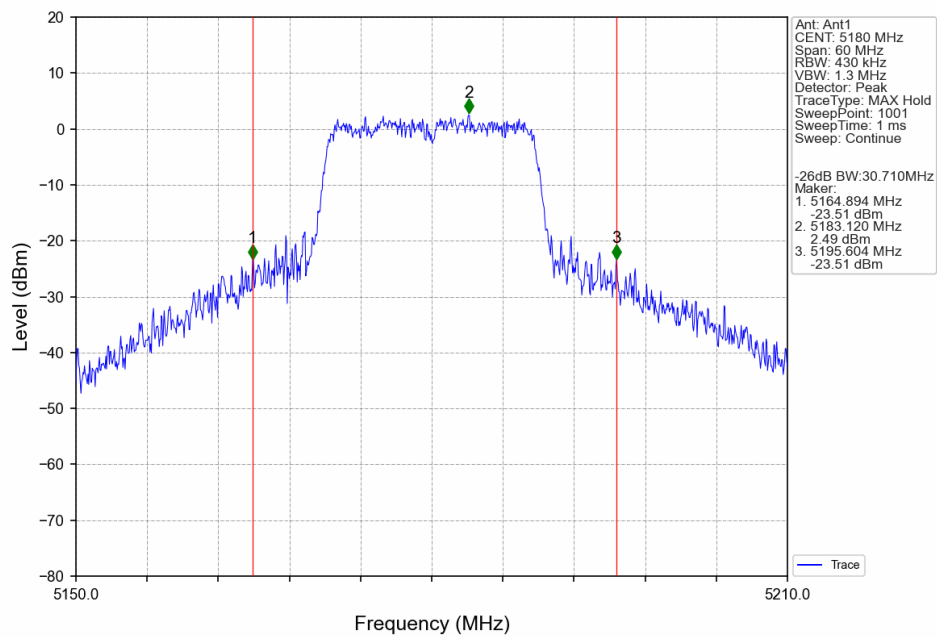
802.11a_MCH_5200MHz_Ant1_NTNV



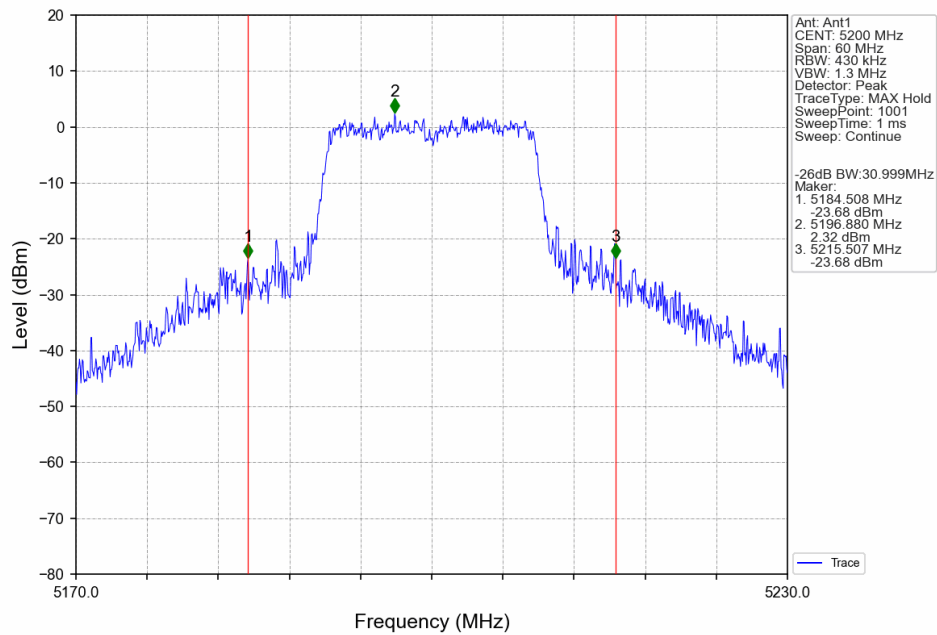
802.11a_HCH_5240MHz_Ant1_NTNV



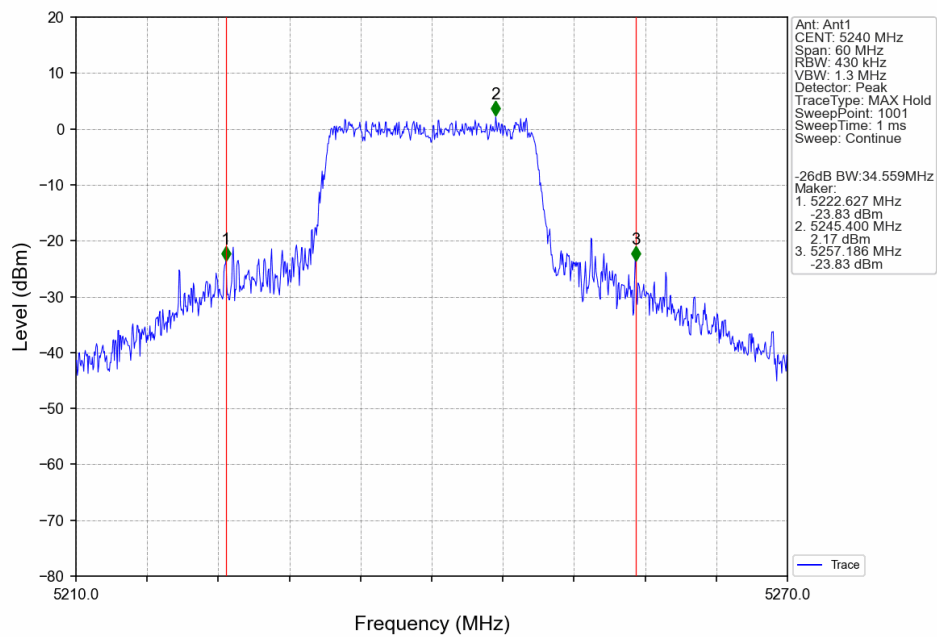
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



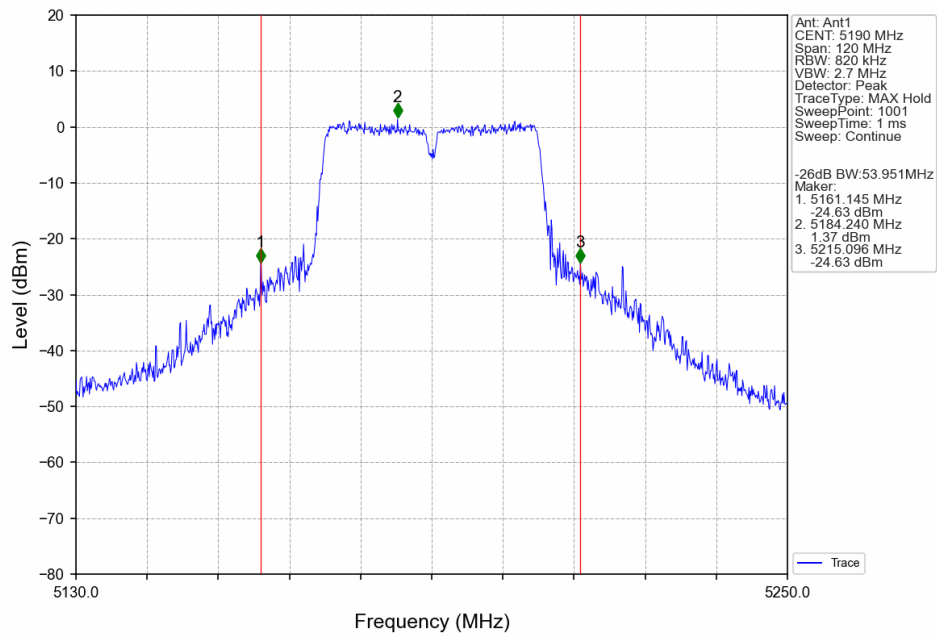
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



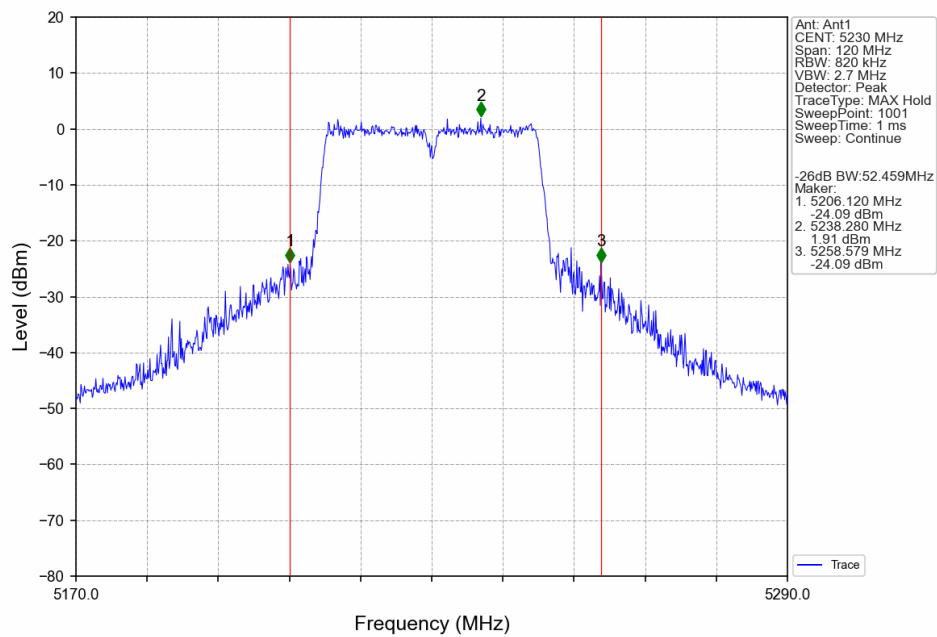
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



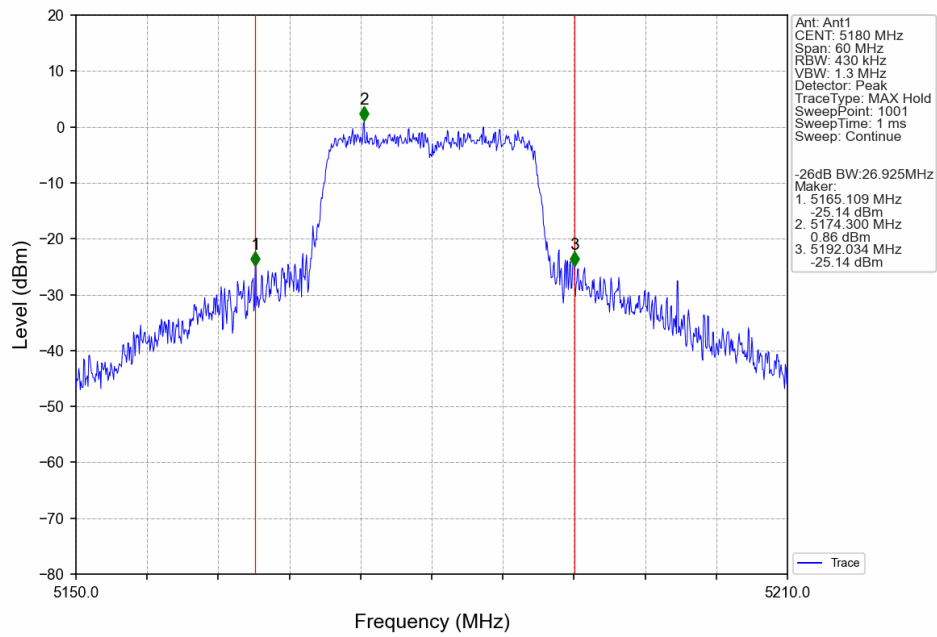
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



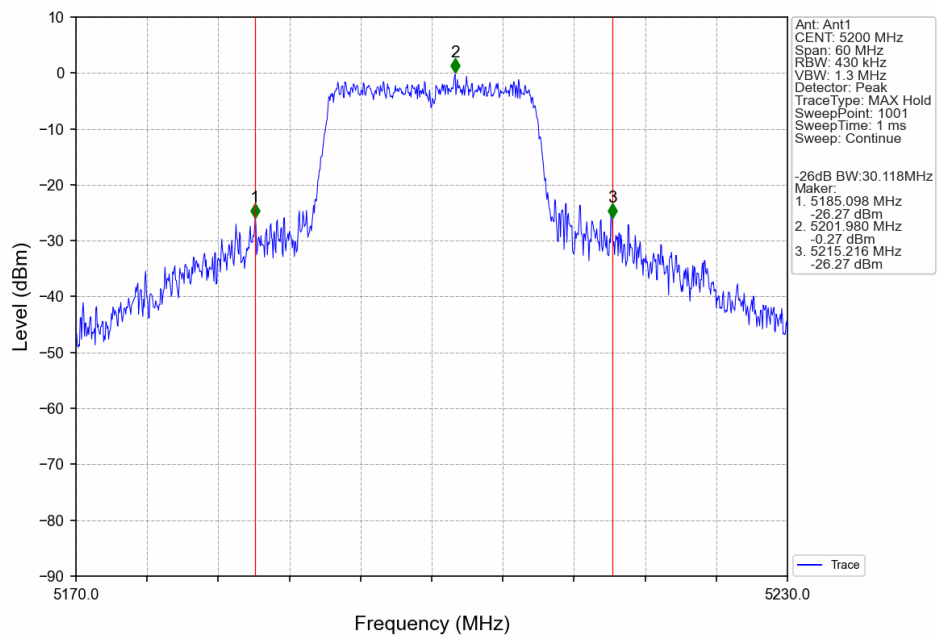
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



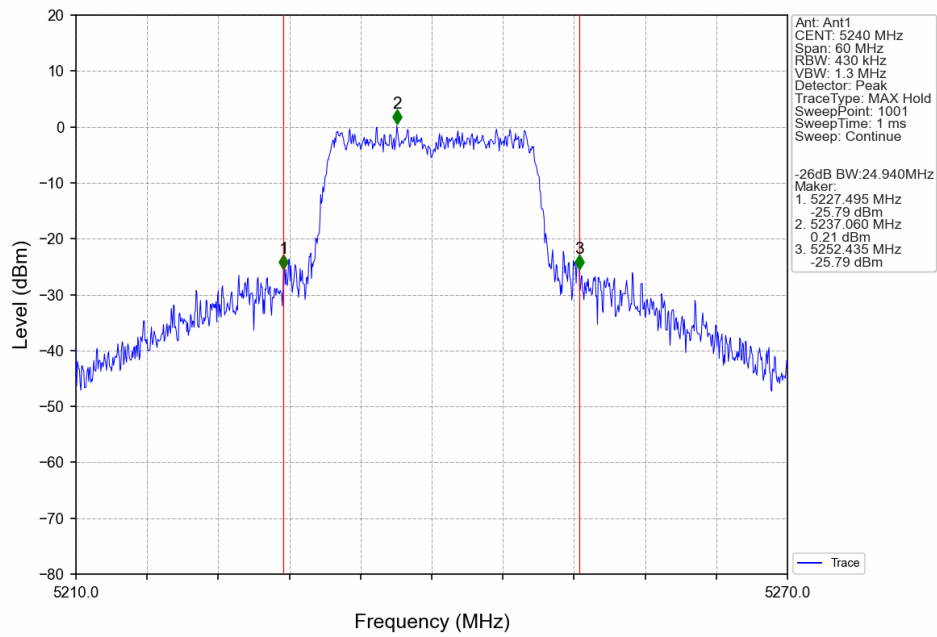
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



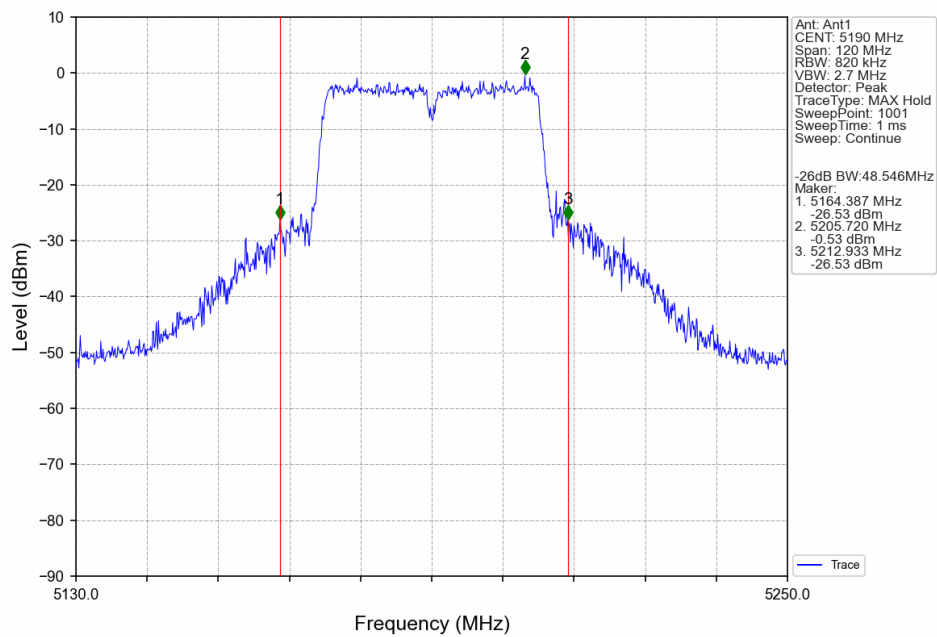
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



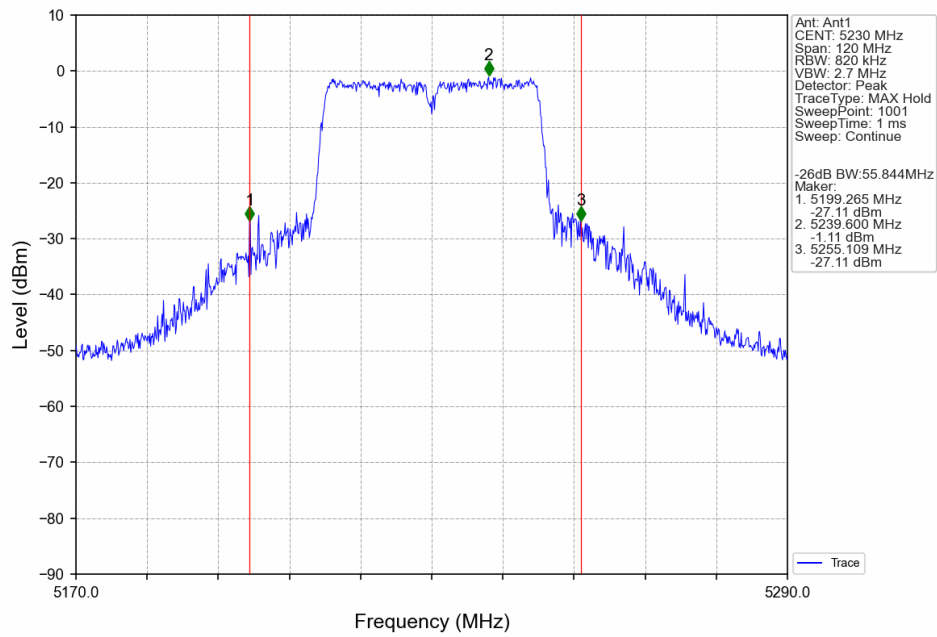
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



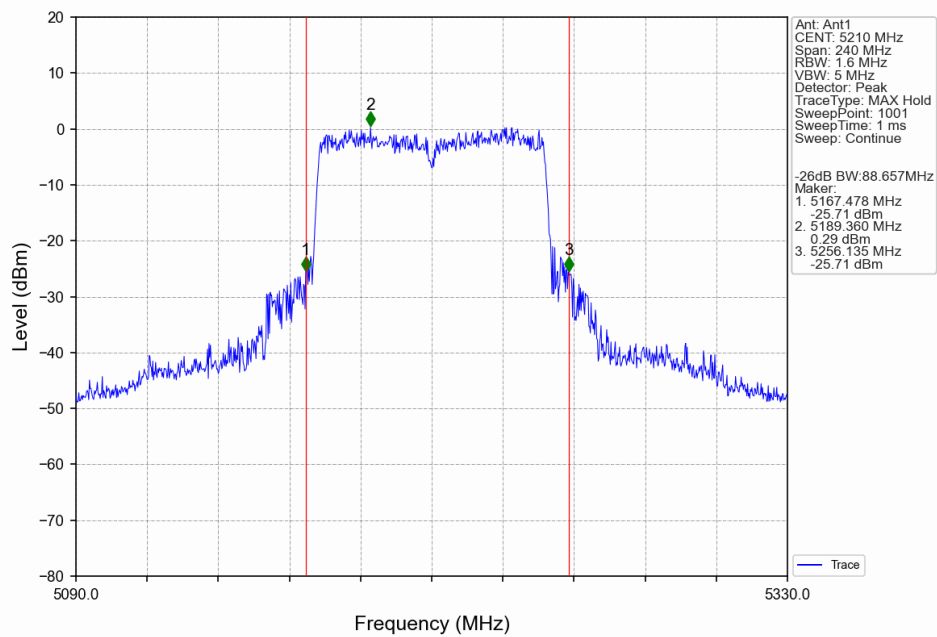
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



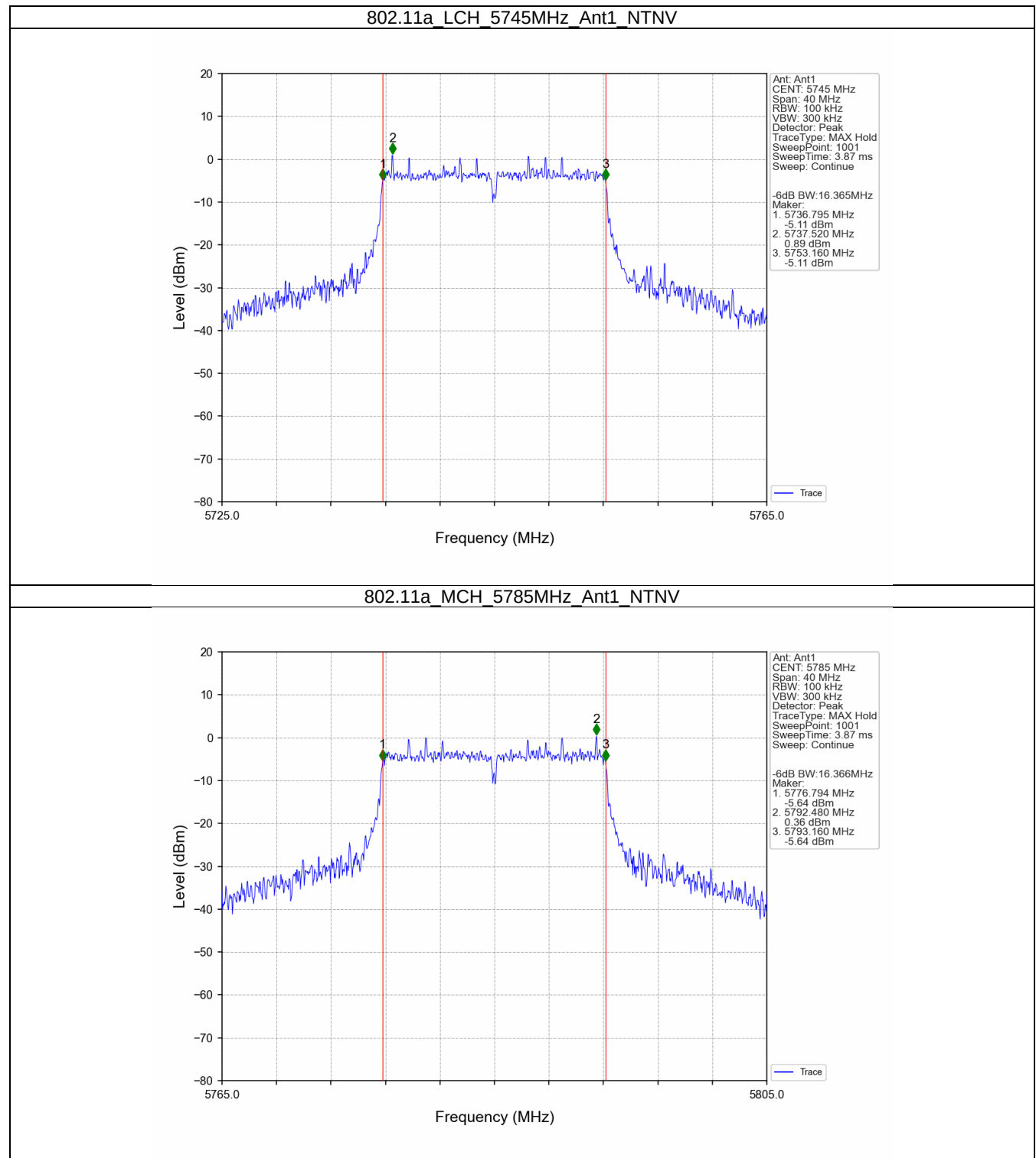
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



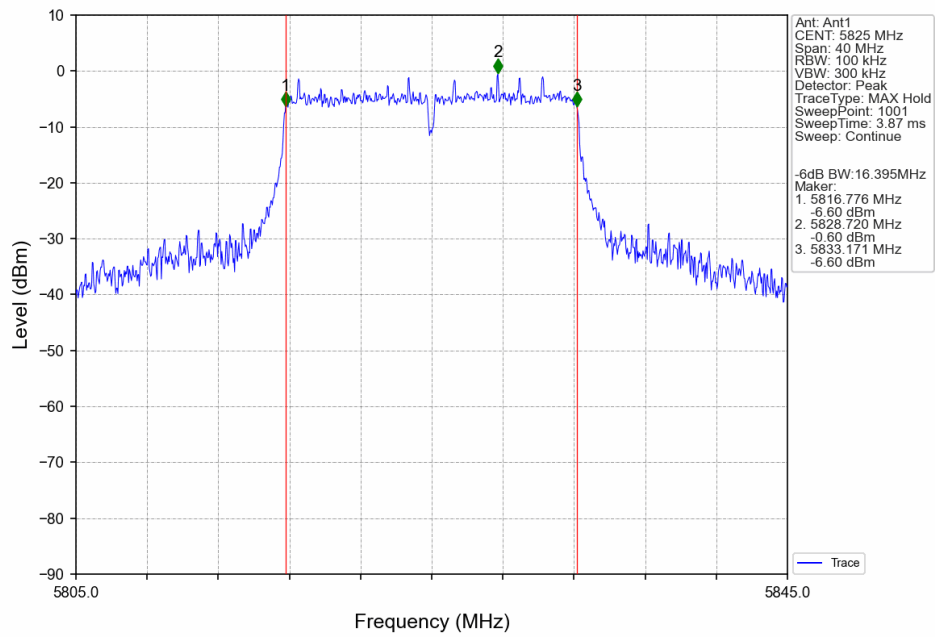
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



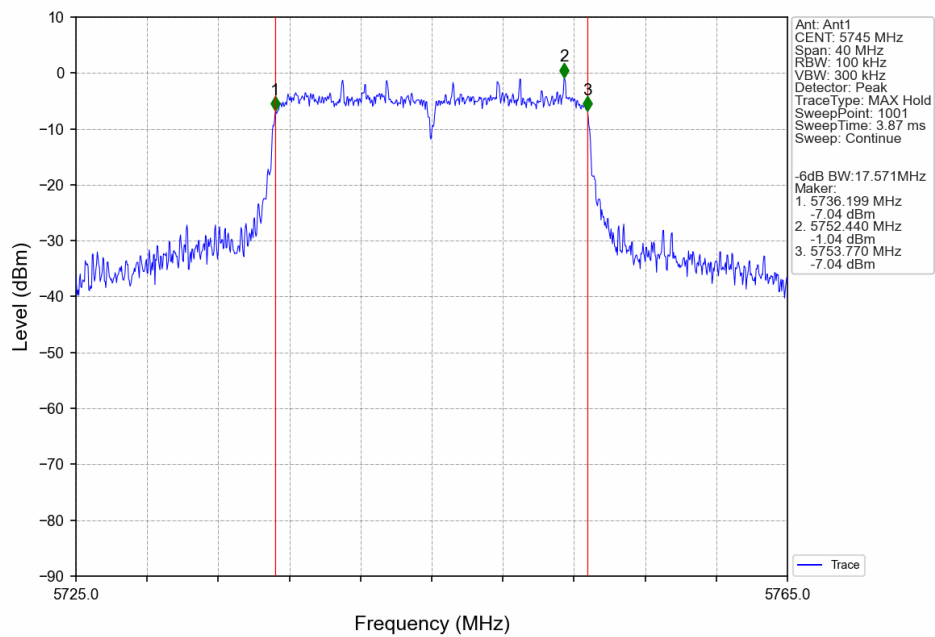
2.2.3 6dB BW



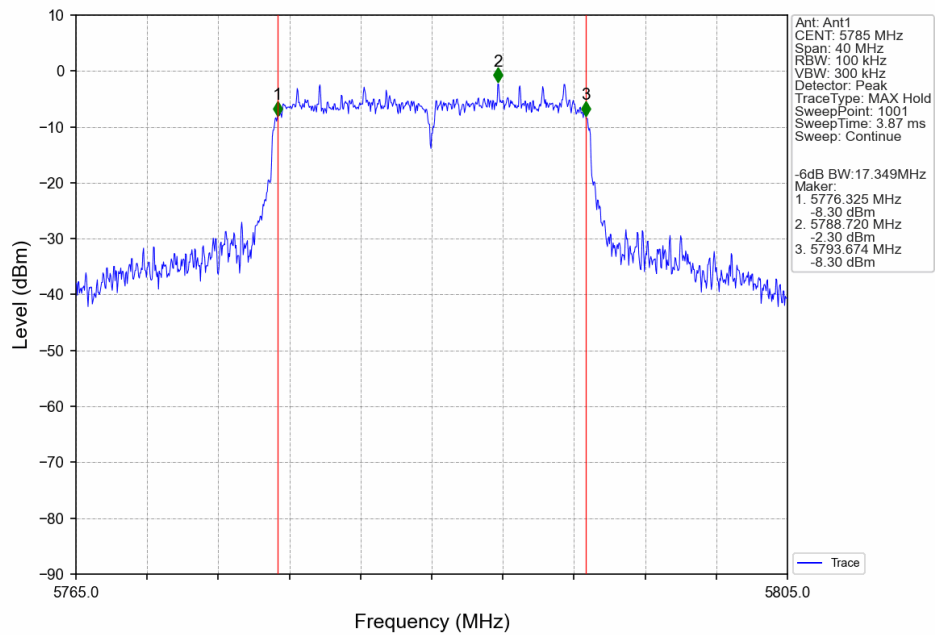
802.11a_HCH_5825MHz_Ant1_NTNV



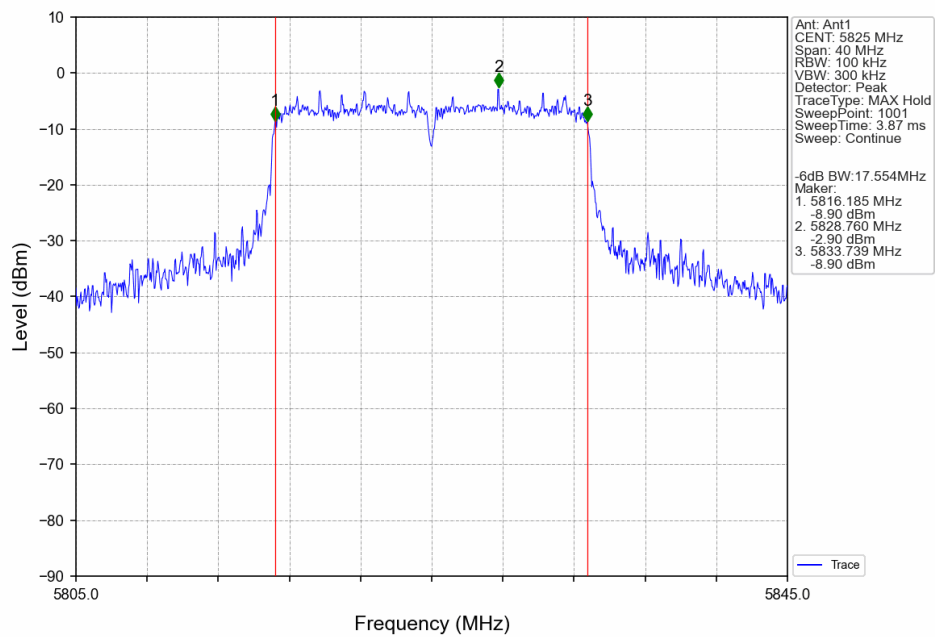
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



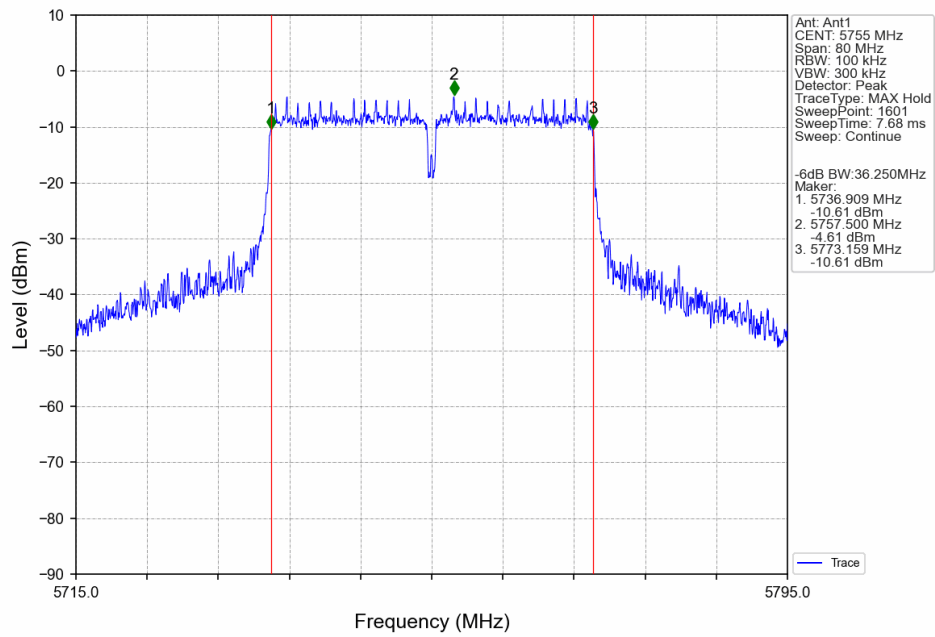
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



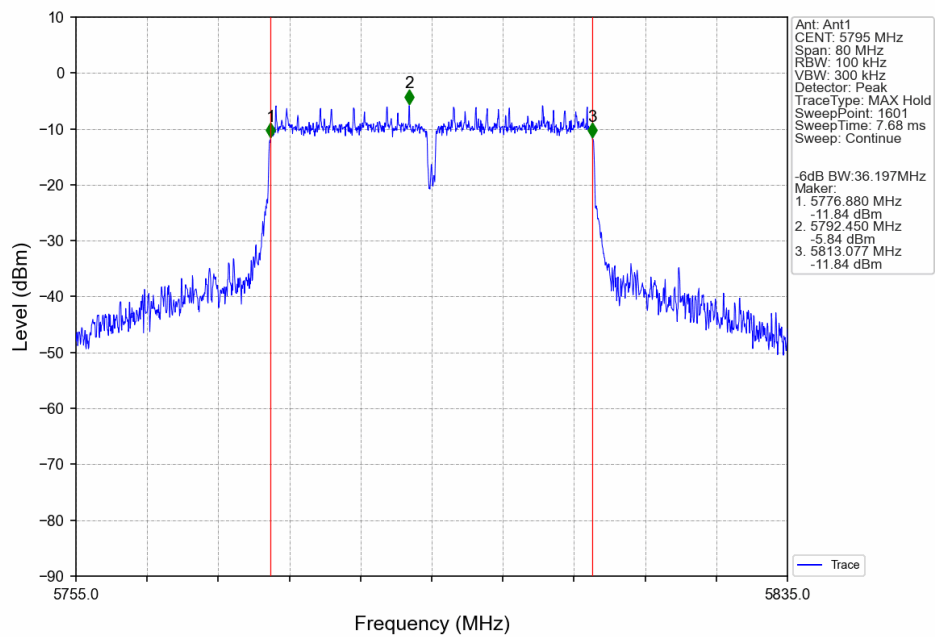
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



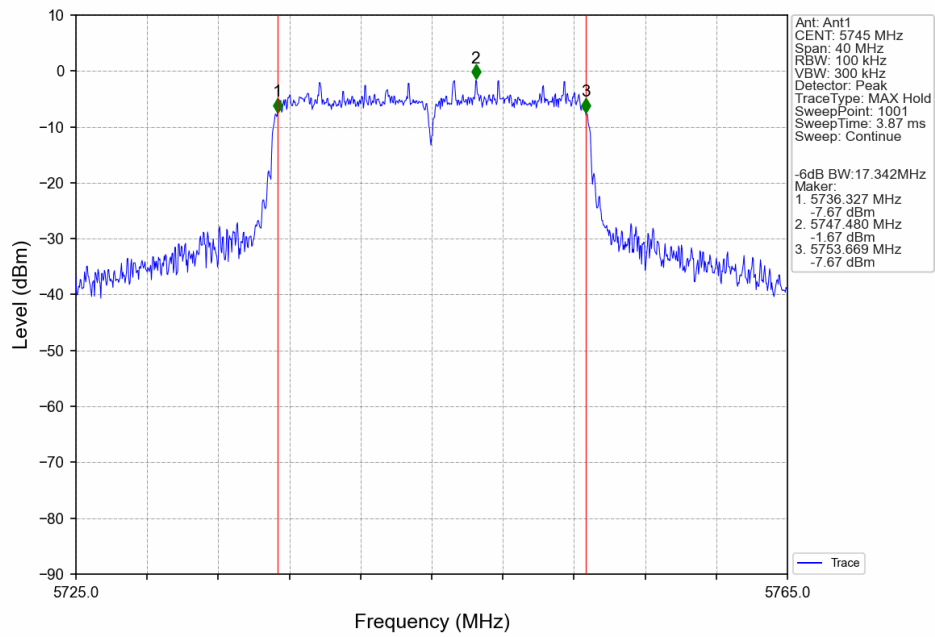
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



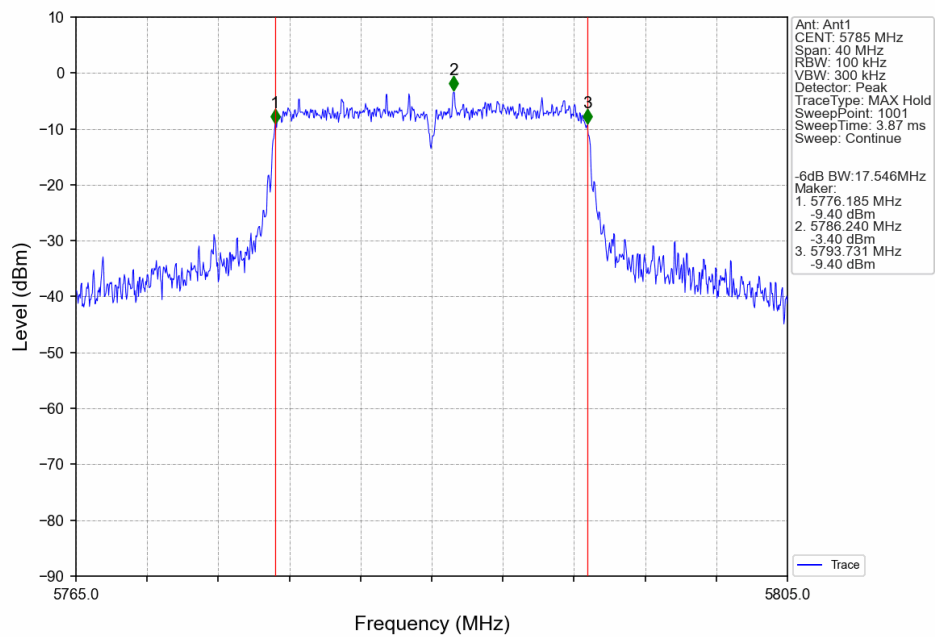
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



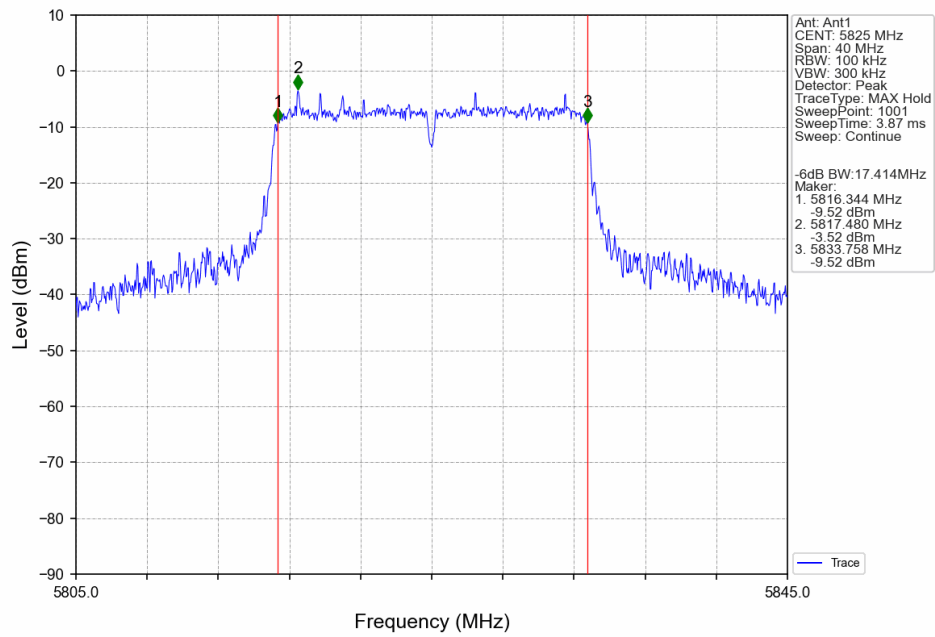
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



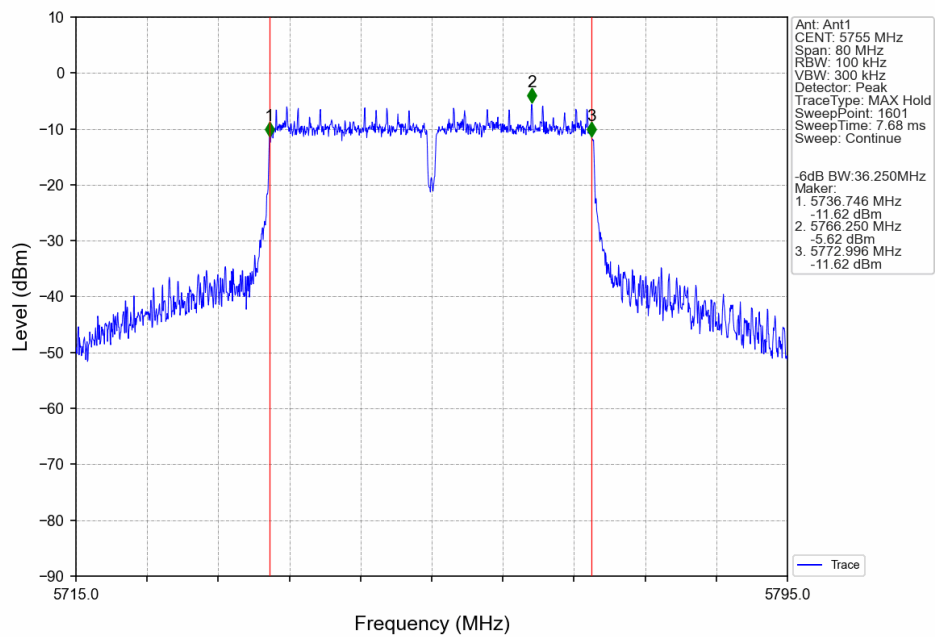
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



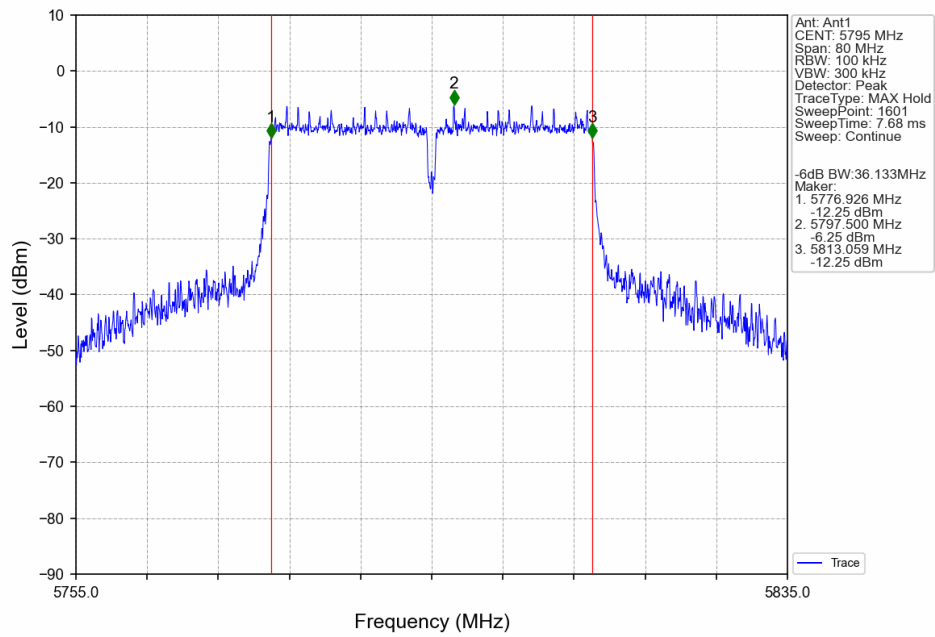
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



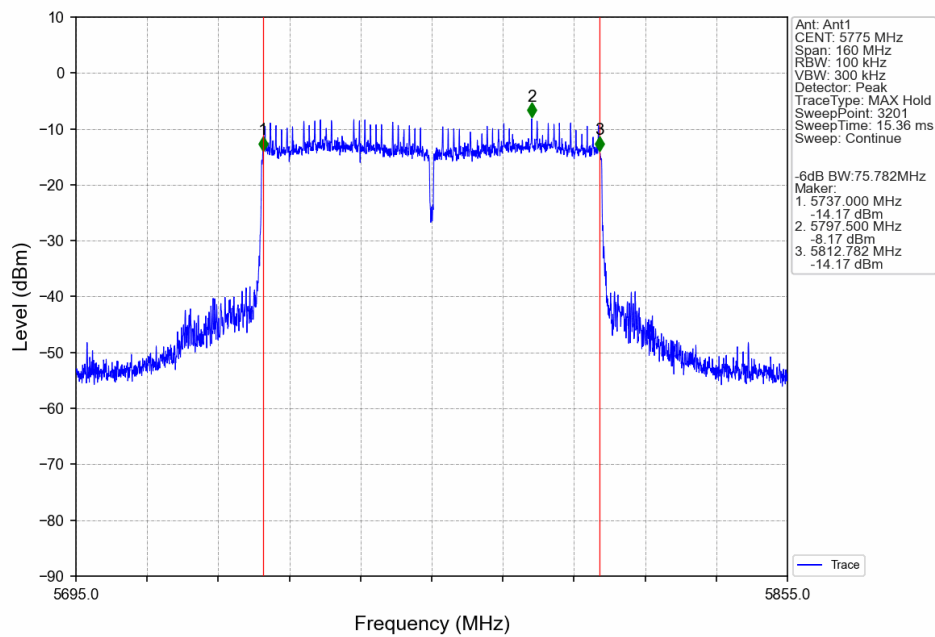
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	9.48	<=23.98	Pass
		5200	8.75	<=23.98	Pass
		5240	9.17	<=23.98	Pass
		5745	11.94	<=30	Pass
		5785	11.32	<=30	Pass
		5825	10.68	<=30	Pass
802.11n (HT20)	SISO	5180	9.50	<=23.98	Pass
		5200	8.91	<=23.98	Pass
		5240	9.23	<=23.98	Pass
		5745	10.71	<=30	Pass
		5785	9.37	<=30	Pass
		5825	8.83	<=30	Pass
802.11n (HT40)	SISO	5190	8.16	<=23.98	Pass
		5230	8.47	<=23.98	Pass
		5755	10.01	<=30	Pass
		5795	9.30	<=30	Pass
802.11ac (VHT20)	SISO	5180	6.83	<=23.98	Pass
		5200	6.18	<=23.98	Pass
		5240	6.67	<=23.98	Pass
		5745	10.11	<=30	Pass
		5785	8.50	<=30	Pass
		5825	8.03	<=30	Pass
802.11ac (VHT40)	SISO	5190	7.52	<=23.98	Pass
		5230	6.30	<=23.98	Pass
		5755	8.94	<=30	Pass
		5795	8.39	<=30	Pass
802.11ac (VHT80)	SISO	5210	7.25	<=23.98	Pass
		5775	8.57	<=30	Pass
Note1: Antenna Gain: - Band: 1 Ant1: 0.82dBi; - Band: 3 Ant1: 0.82dBi;					