

Appendix RF test data for 5G WIFI

1. Duty Cycle

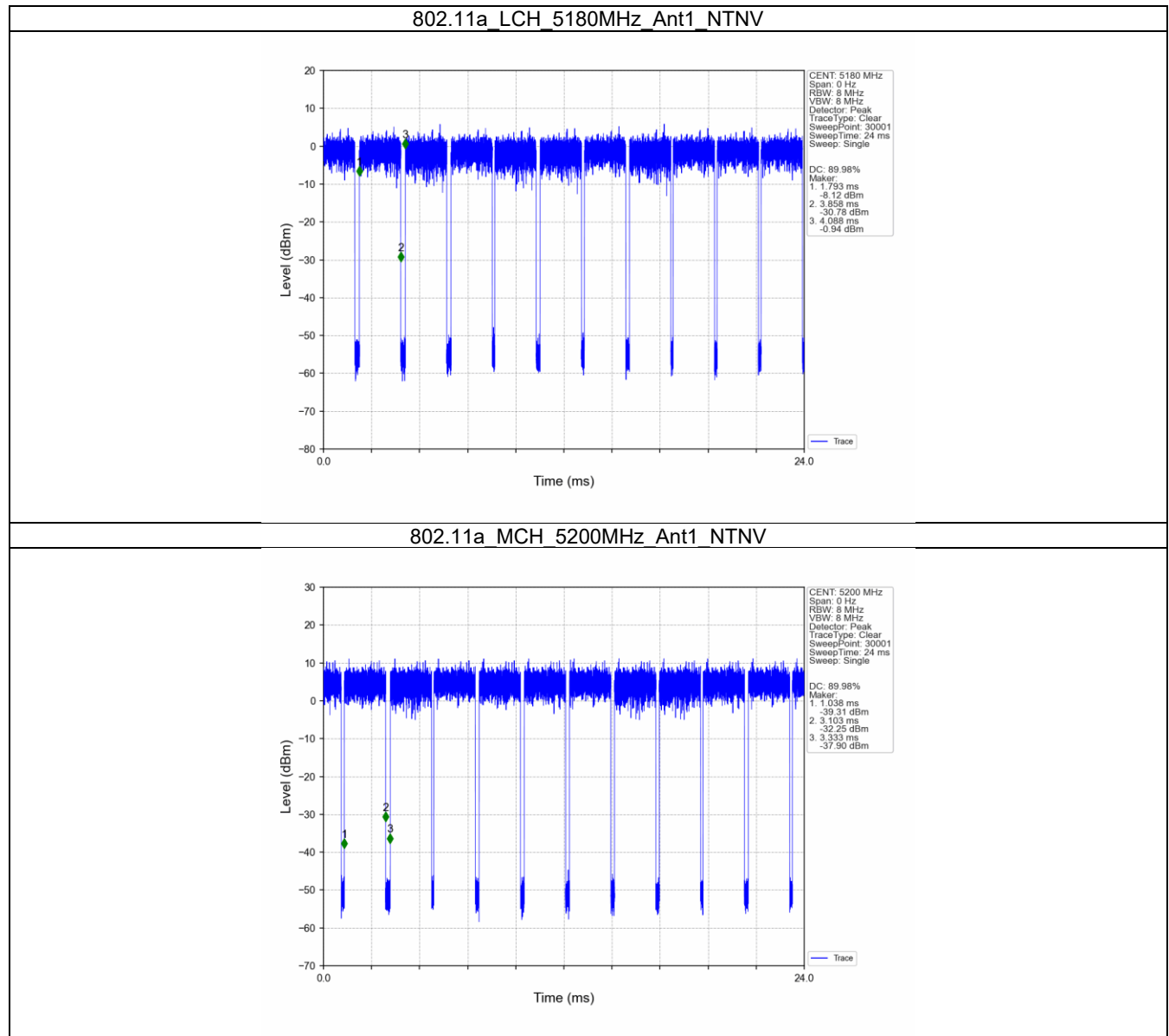
1.1 Test Result

1.1.1 Ant1

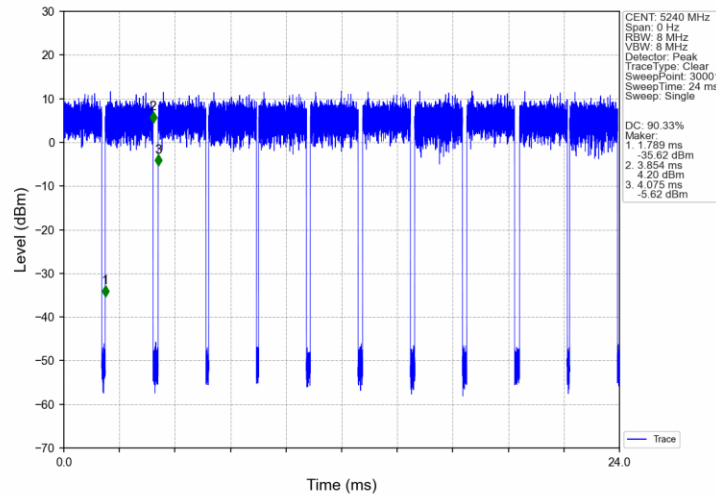
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.065	2.295	89.98	0.46	4.82
		5200	2.065	2.295	89.98	0.46	4.79
		5240	2.065	2.286	90.33	0.44	5.29
		5745	2.064	2.276	90.69	0.42	4.52
		5785	2.065	2.295	89.98	0.46	5.67
		5825	2.066	2.278	90.69	0.42	4.51
802.11n (HT20)	SISO	5180	1.922	2.151	89.35	0.49	5.53
		5200	1.921	2.151	89.31	0.49	3.12
		5240	1.922	2.134	90.07	0.45	5.24
		5745	1.920	2.151	89.26	0.49	5.12
		5785	1.921	2.794	68.75	1.63	24.47
		5825	1.921	2.151	89.31	0.49	5.57
802.11n (HT40)	SISO	5190	0.945	1.157	81.68	0.88	8.43
		5230	0.945	1.166	81.05	0.91	8.26
		5755	0.945	1.157	81.68	0.88	8.39
		5795	0.945	1.175	80.43	0.95	7.43
802.11ac (VHT20)	SISO	5180	2.065	2.529	81.65	0.88	3.66
		5200	2.065	2.738	75.42	1.23	9.94
		5240	2.065	2.555	80.82	0.92	4.55
		5745	2.065	2.546	81.11	0.91	3.94
		5785	2.065	2.528	81.69	0.88	3.06
		5825	2.065	2.510	82.27	0.85	2.43
802.11ac (VHT40)	SISO	5190	2.064	2.546	81.07	0.91	3.60
		5230	2.065	2.537	81.40	0.89	3.30
		5755	2.066	2.538	81.40	0.89	3.63
		5795	2.066	2.555	80.86	0.92	4.18

1.2 Test Graph

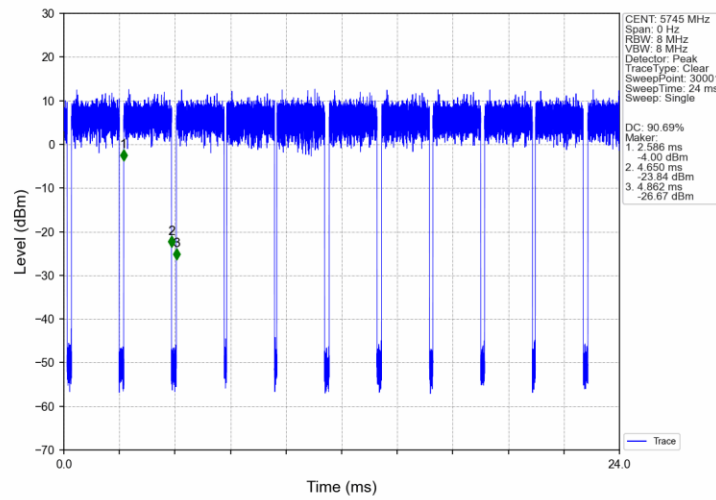
1.2.1 Ant1



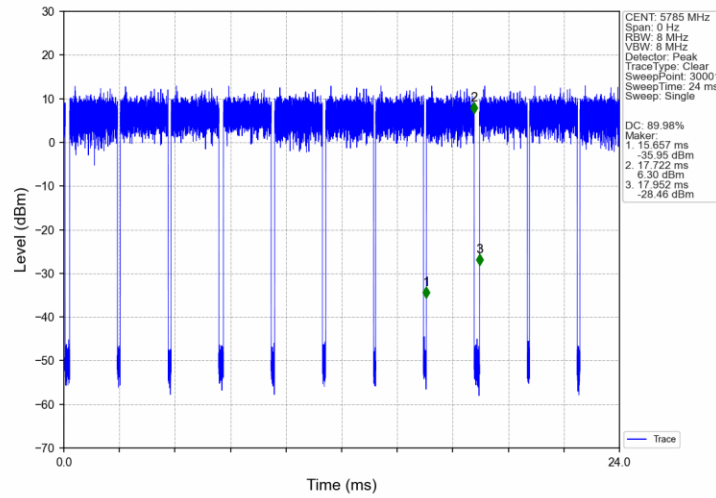
802.11a_HCH_5240MHz_Ant1_NTNV



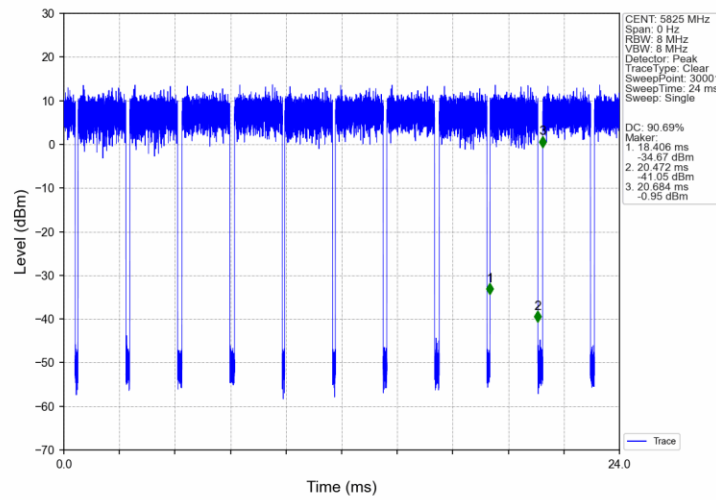
802.11a_LCH_5745MHz_Ant1_NTNV



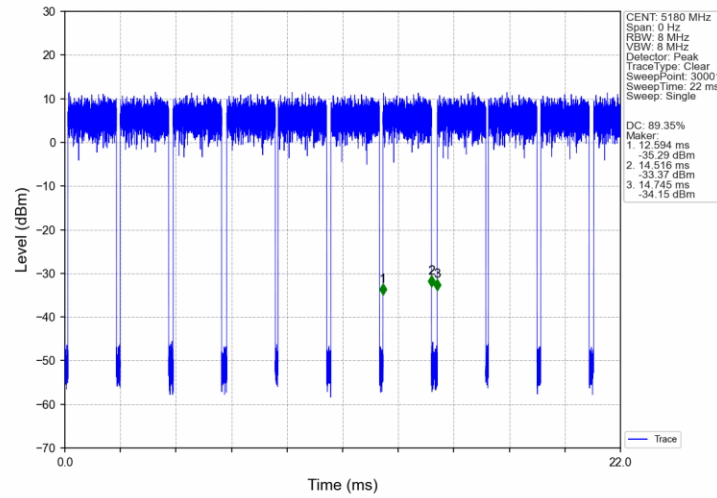
802.11a_MCH_5785MHz_Ant1_NTNV



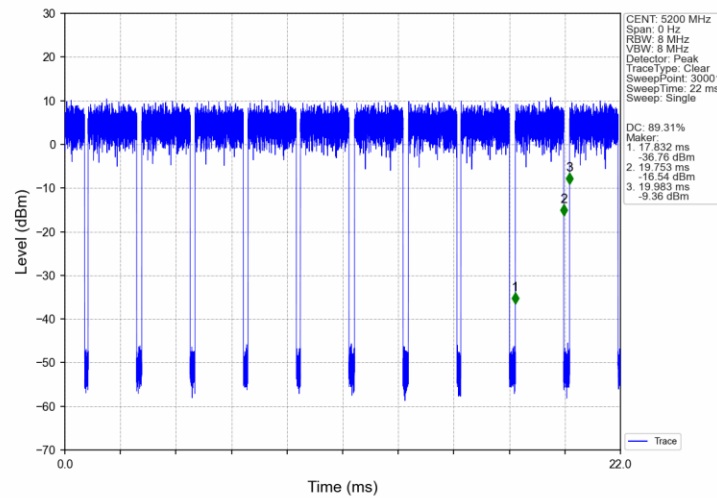
802.11a_HCH_5825MHz_Ant1_NTNV



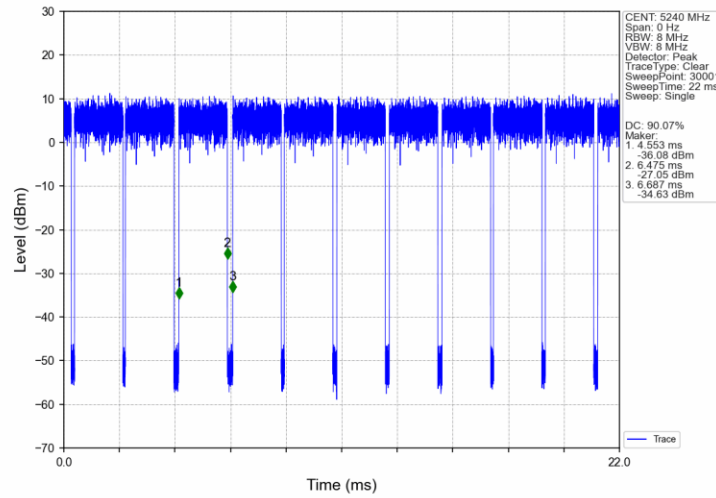
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



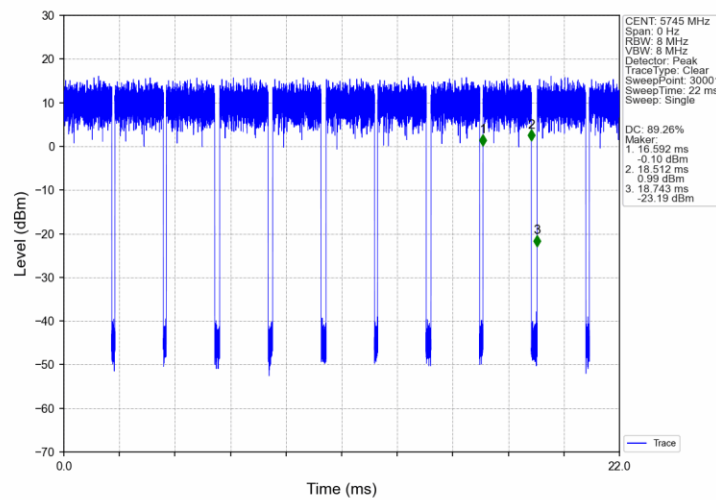
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



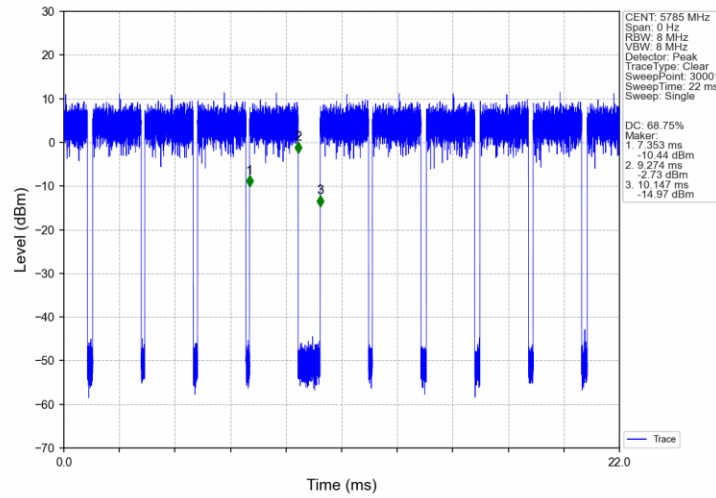
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



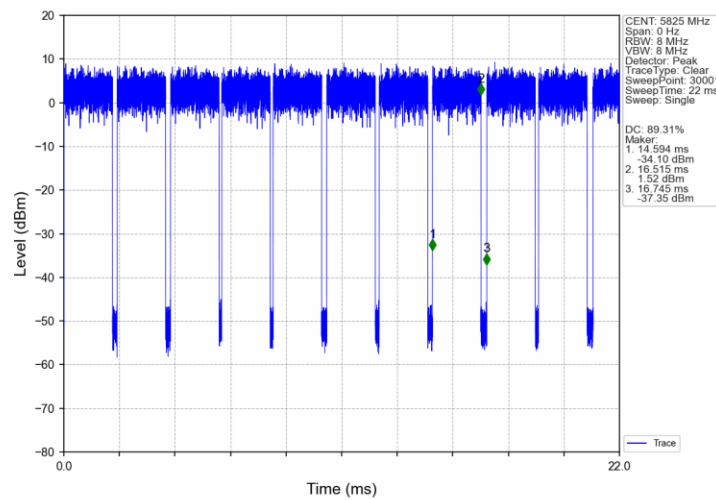
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



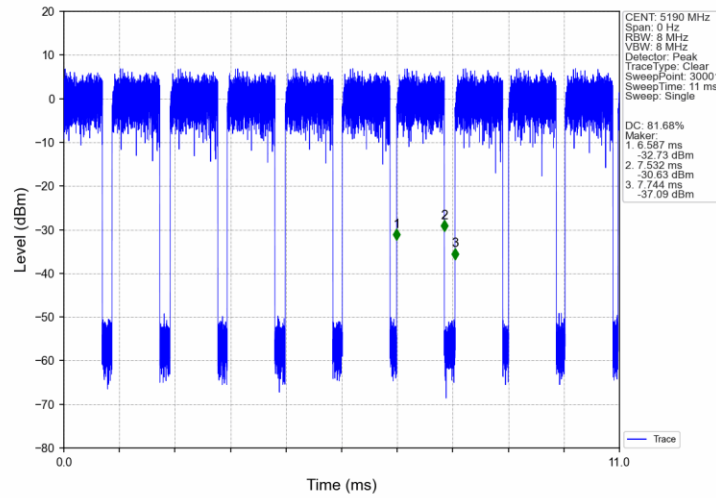
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



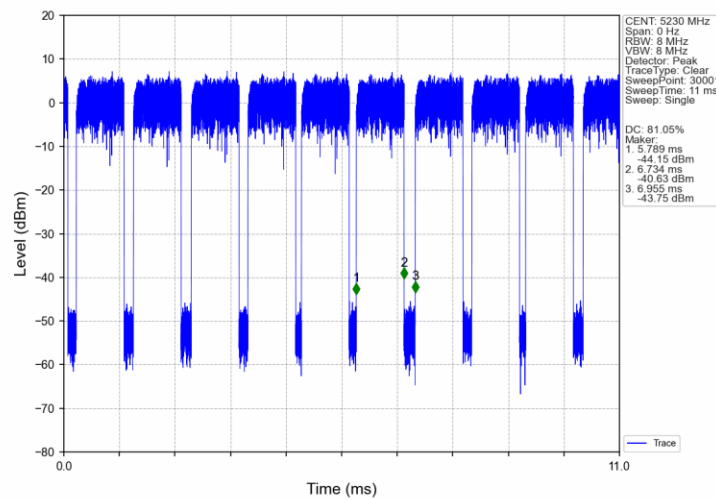
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



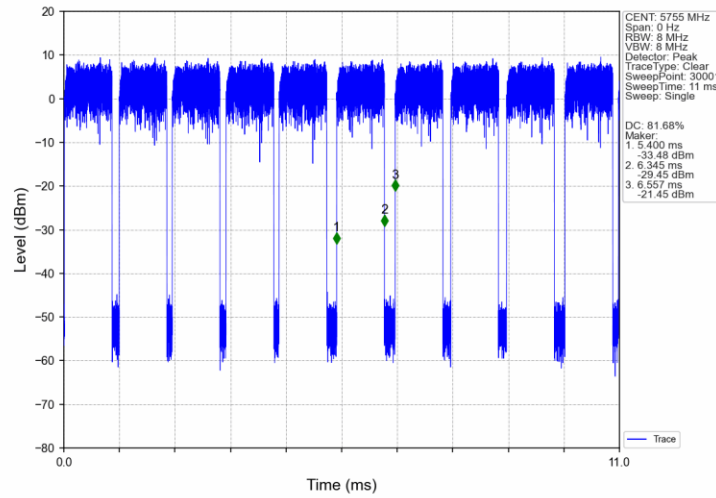
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



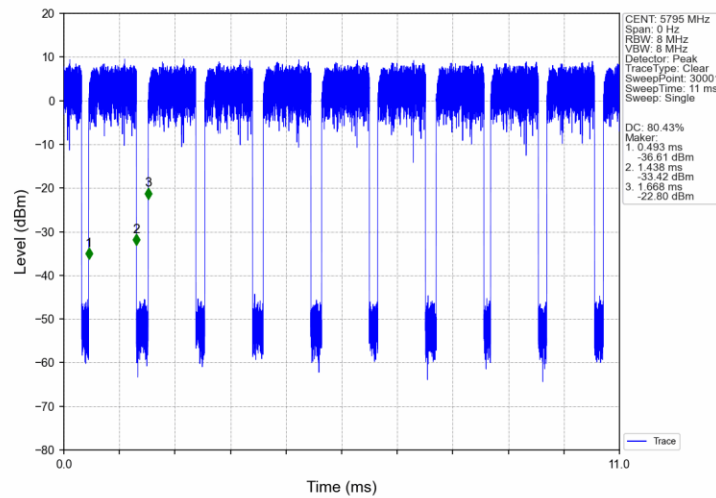
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



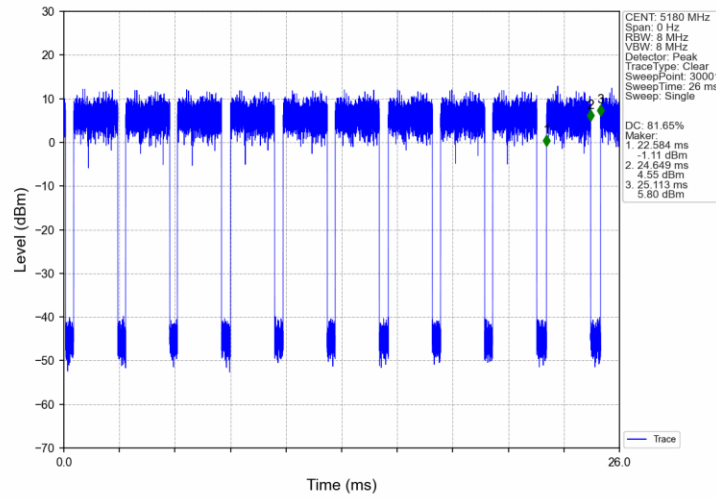
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



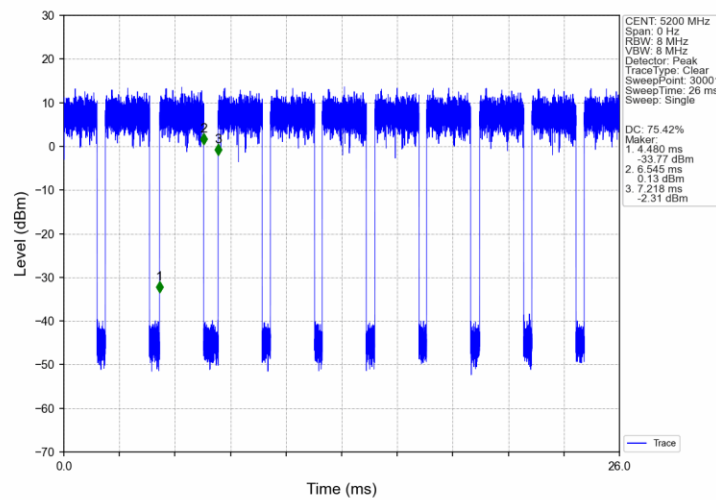
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



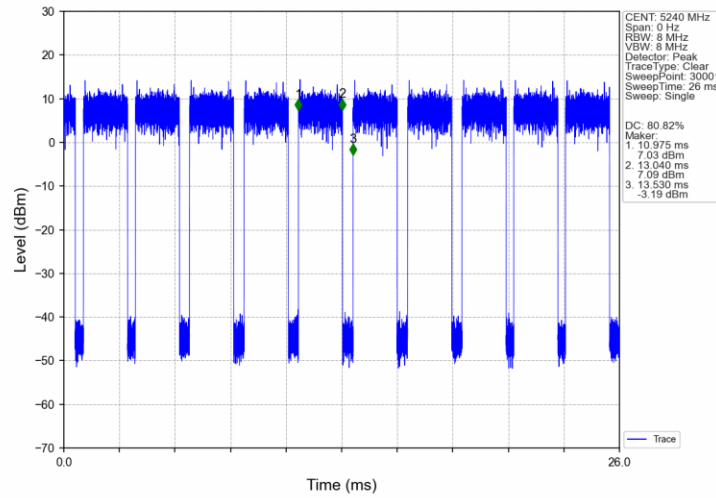
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



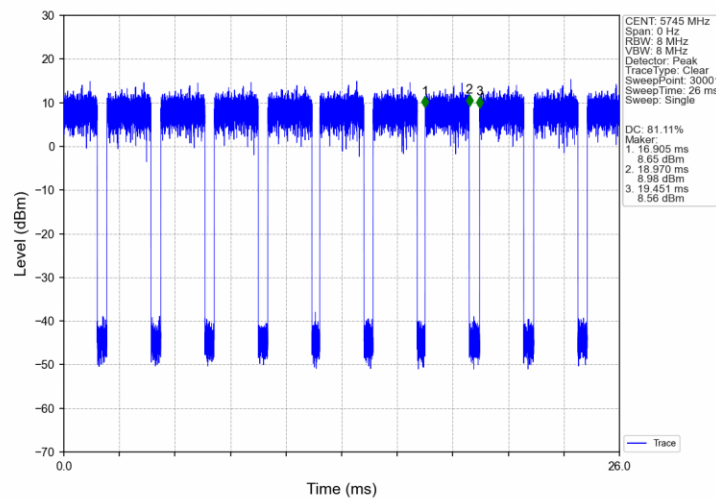
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



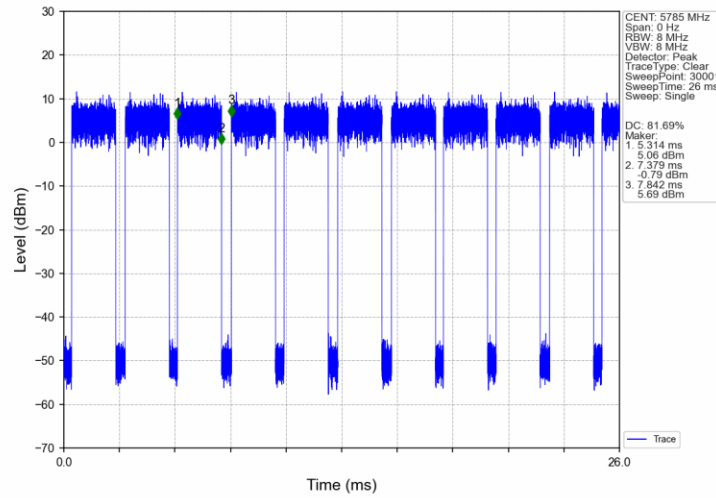
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



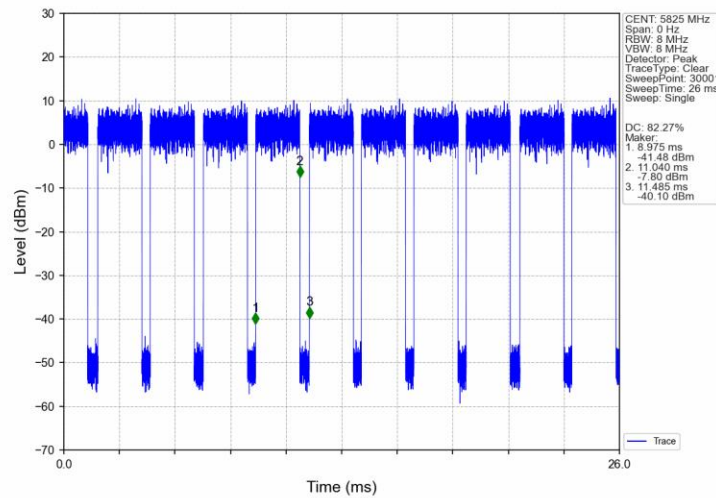
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



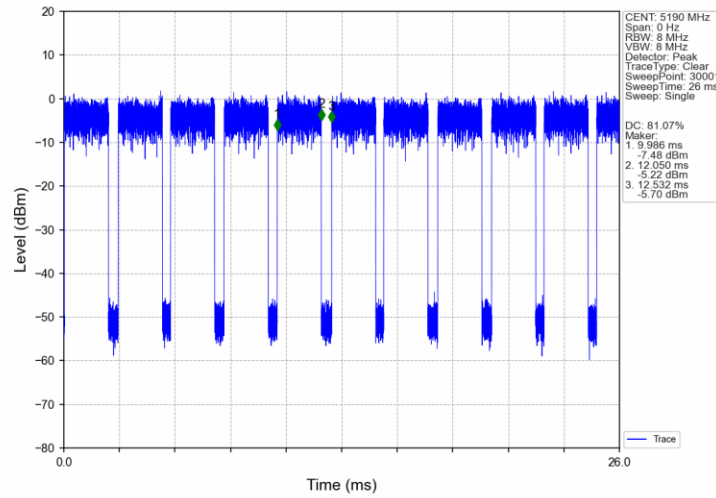
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



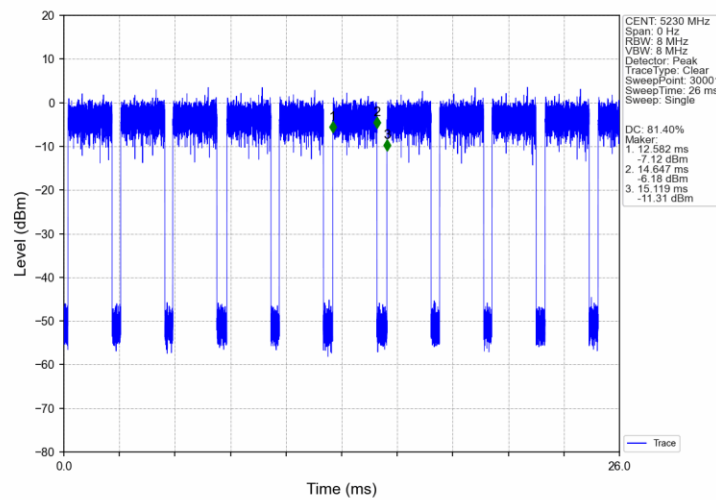
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



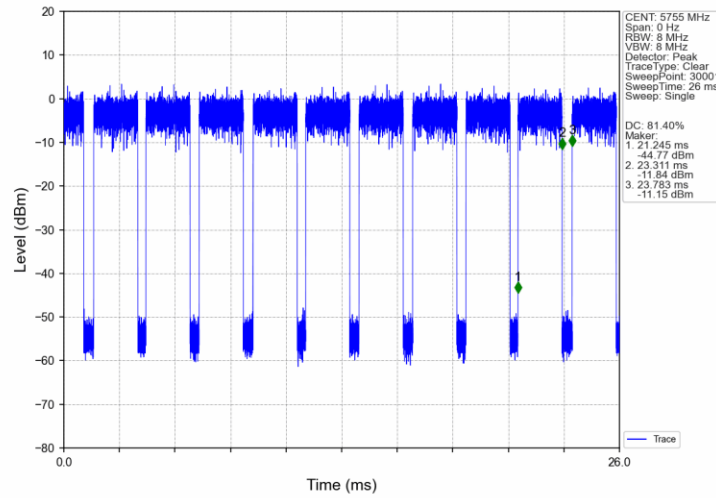
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



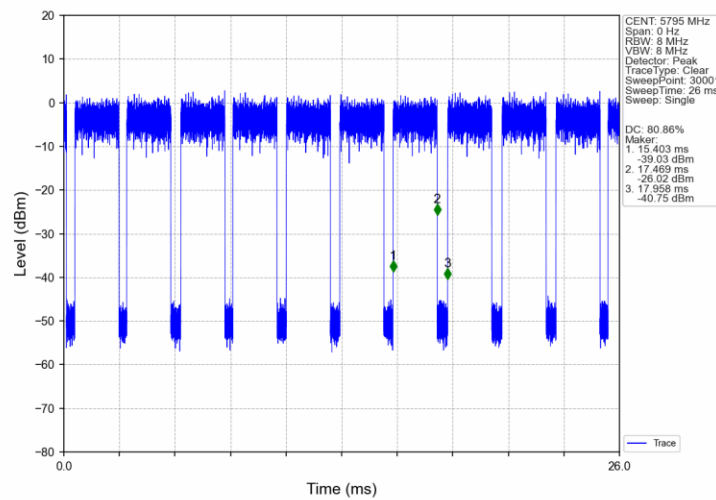
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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	16.658	/	Pass
		5200	1	16.687	/	Pass
		5240	1	16.719	/	Pass
		5745	1	16.702	/	Pass
		5785	1	16.829	/	Pass
		5825	1	16.807	/	Pass
802.11n (HT20)	SISO	5180	1	17.601	/	Pass
		5200	1	17.646	/	Pass
		5240	1	17.730	/	Pass
		5745	1	17.873	/	Pass
		5785	1	17.602	/	Pass
		5825	1	17.656	/	Pass
802.11n (HT40)	SISO	5190	1	35.305	/	Pass
		5230	1	35.231	/	Pass
		5755	1	35.225	/	Pass
		5795	1	35.199	/	Pass
802.11ac (VHT20)	SISO	5180	1	16.689	/	Pass
		5200	1	16.633	/	Pass
		5240	1	16.640	/	Pass
		5745	1	16.673	/	Pass
		5785	1	16.606	/	Pass
		5825	1	16.664	/	Pass
802.11ac (VHT40)	SISO	5190	1	35.875	/	Pass
		5230	1	35.820	/	Pass
		5755	1	35.789	/	Pass
		5795	1	35.877	/	Pass

2.1.2 26dB BW

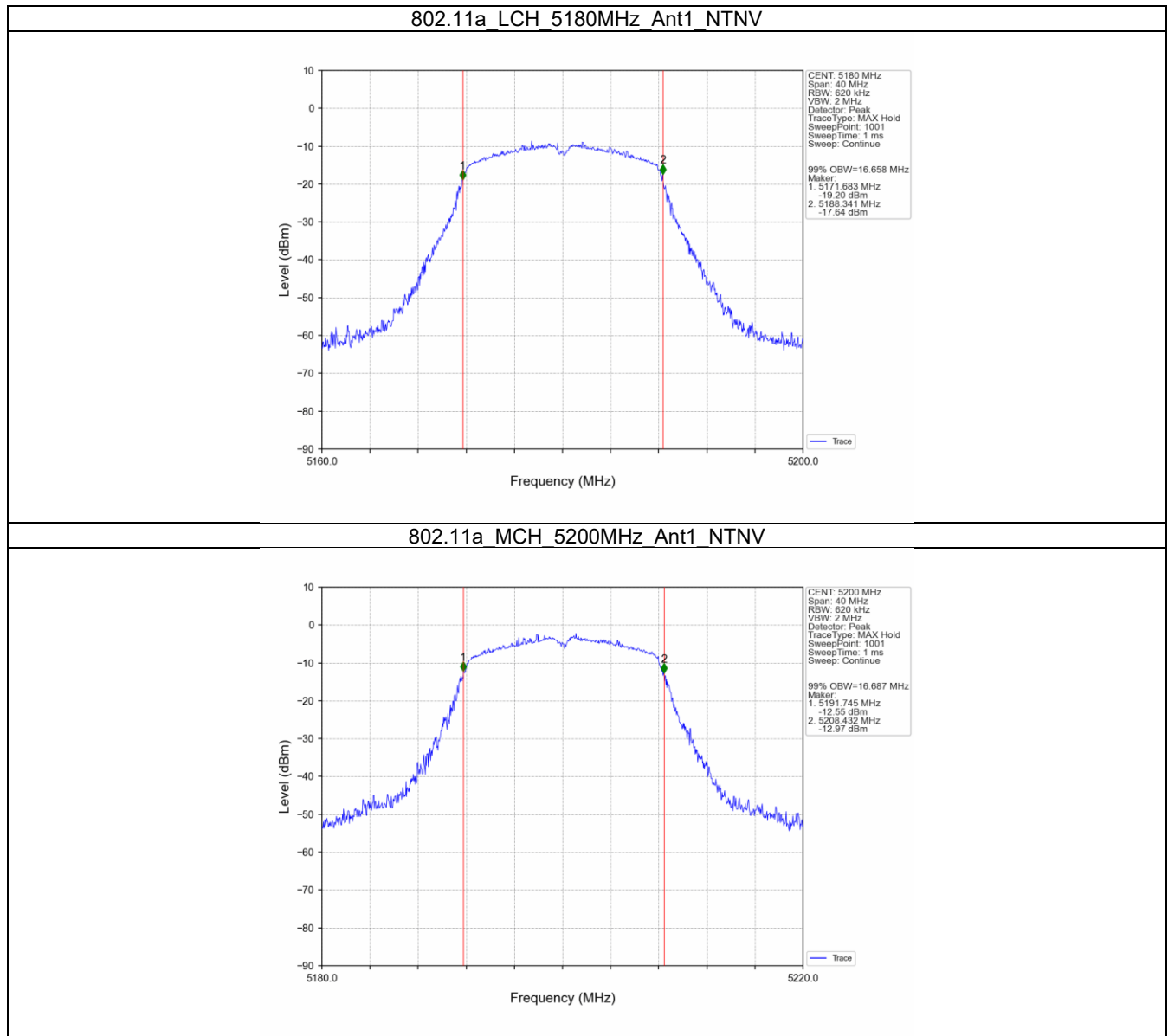
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	20.051	/	Pass
		5200	1	19.943	/	Pass
		5240	1	20.123	/	Pass
802.11n (HT20)	SISO	5180	1	20.593	/	Pass
		5200	1	20.893	/	Pass
		5240	1	20.898	/	Pass
802.11n (HT40)	SISO	5190	1	38.754	/	Pass
		5230	1	38.574	/	Pass
802.11ac (VHT20)	SISO	5180	1	20.667	/	Pass
		5200	1	20.872	/	Pass
		5240	1	20.387	/	Pass
802.11ac (VHT40)	SISO	5190	1	40.694	/	Pass
		5230	1	40.505	/	Pass

2.1.3 6dB BW

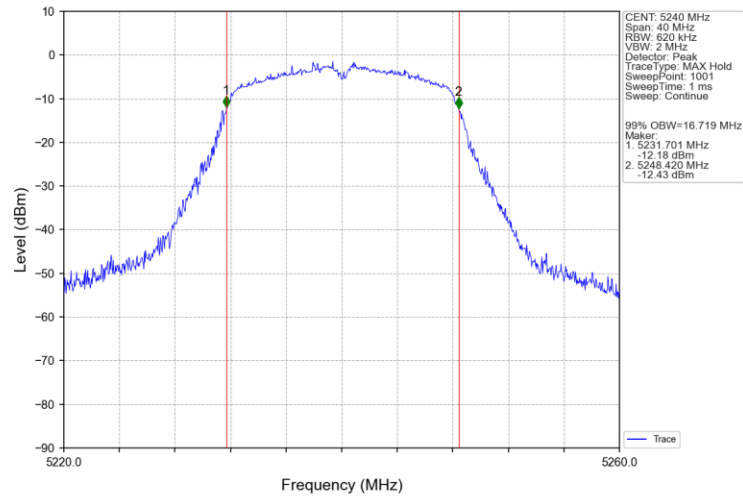
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	11.083	≥ 0.5	Pass
		5785	1	13.894	≥ 0.5	Pass
		5825	1	12.823	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	15.071	≥ 0.5	Pass
		5785	1	13.018	≥ 0.5	Pass
		5825	1	12.974	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	31.245	≥ 0.5	Pass
		5795	1	30.059	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.144	≥ 0.5	Pass
		5785	1	11.712	≥ 0.5	Pass
		5825	1	14.355	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	33.779	≥ 0.5	Pass
		5795	1	31.330	≥ 0.5	Pass

2.2 Test Graph

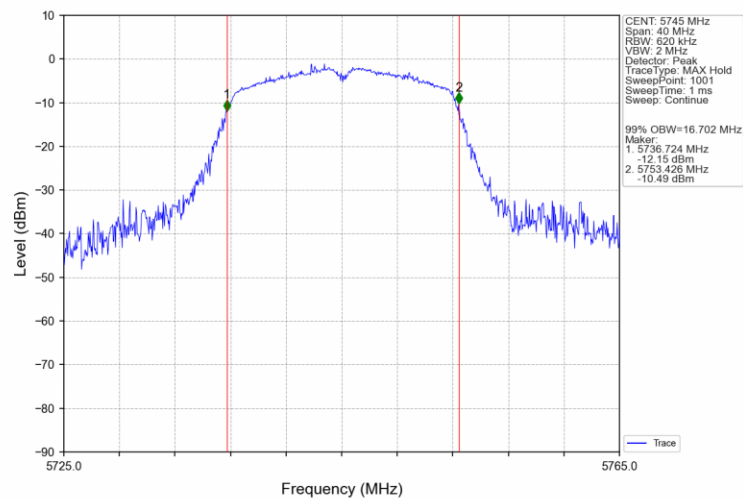
2.2.1 OBW



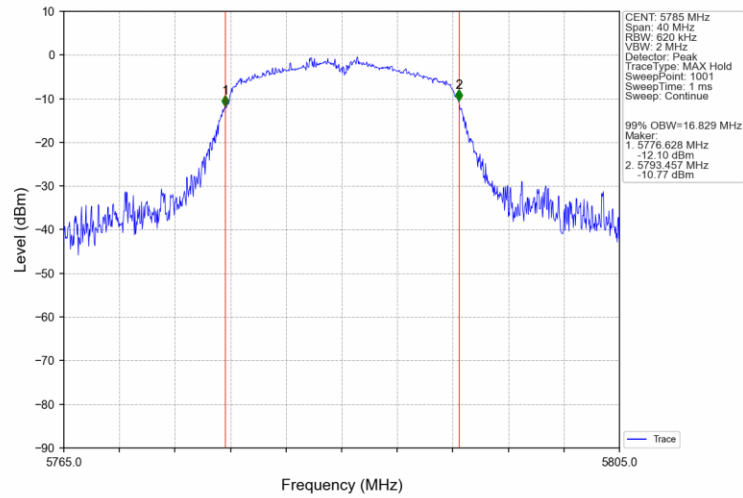
802.11a_HCH_5240MHz_Ant1_NTNV



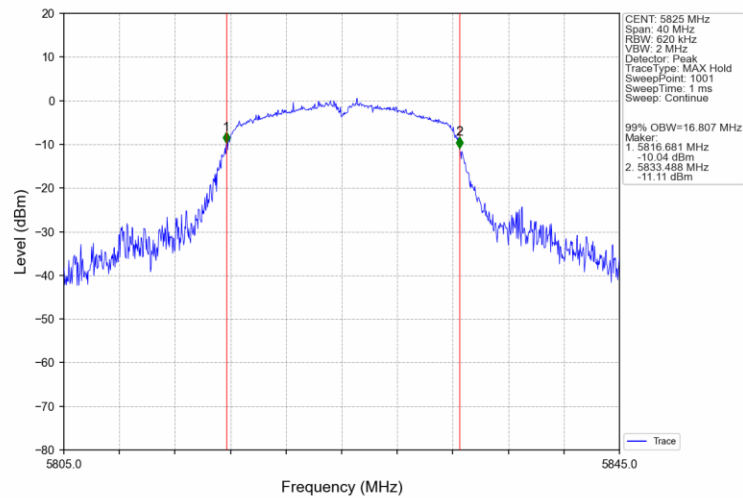
802.11a_LCH_5745MHz_Ant1_NTNV



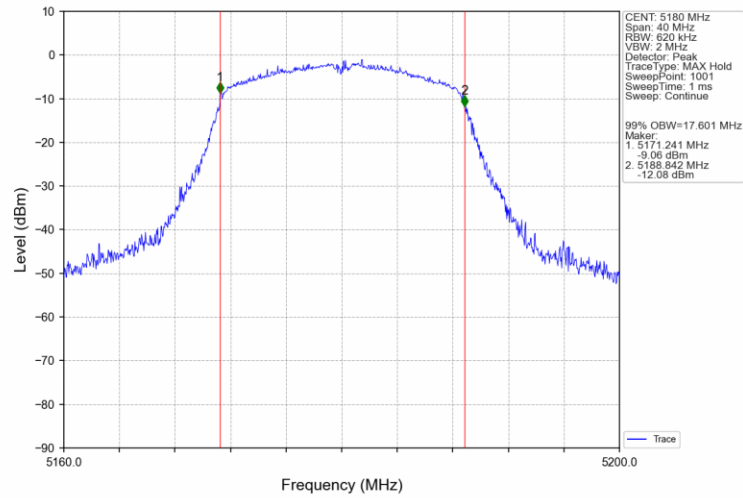
802.11a_MCH_5785MHz_Ant1_NTNV



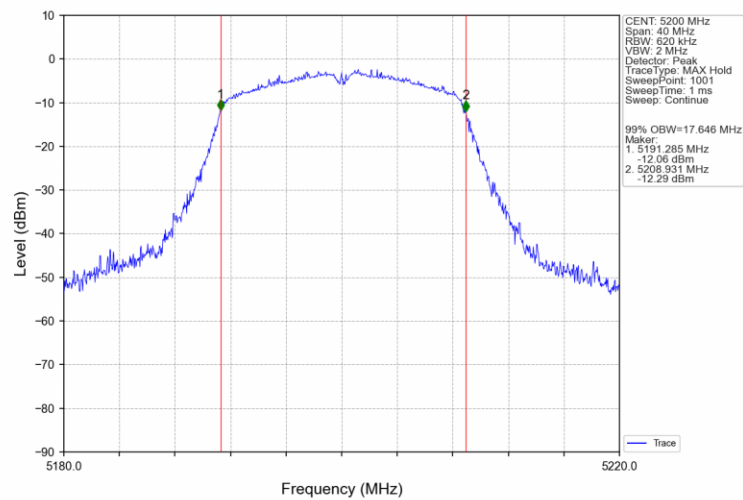
802.11a_HCH_5825MHz_Ant1_NTNV



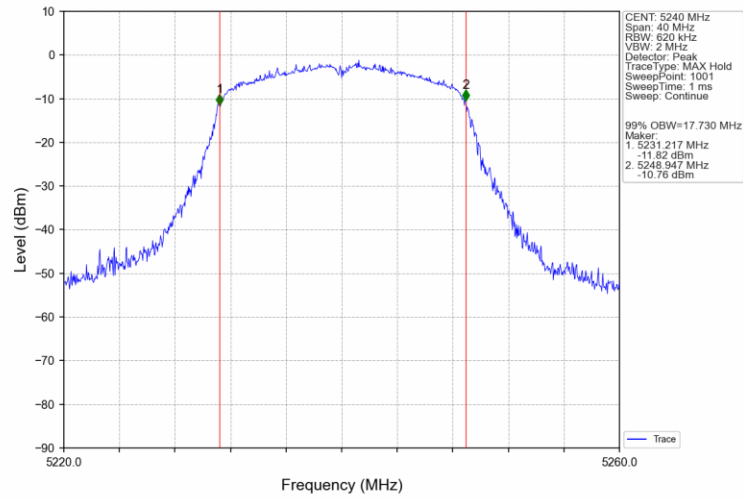
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



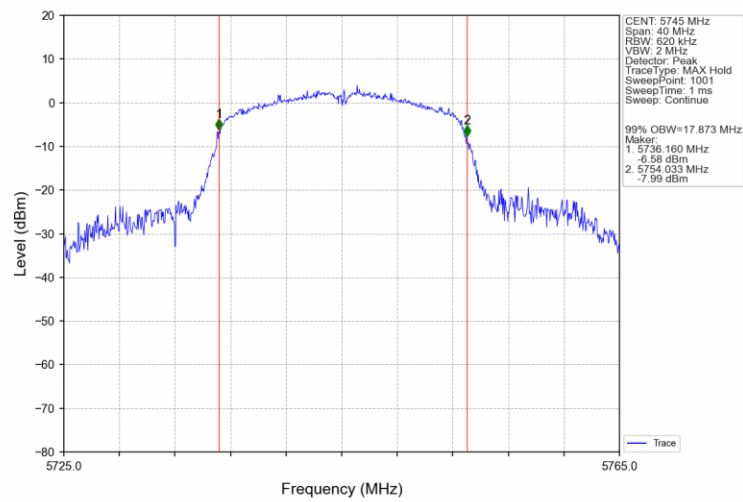
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



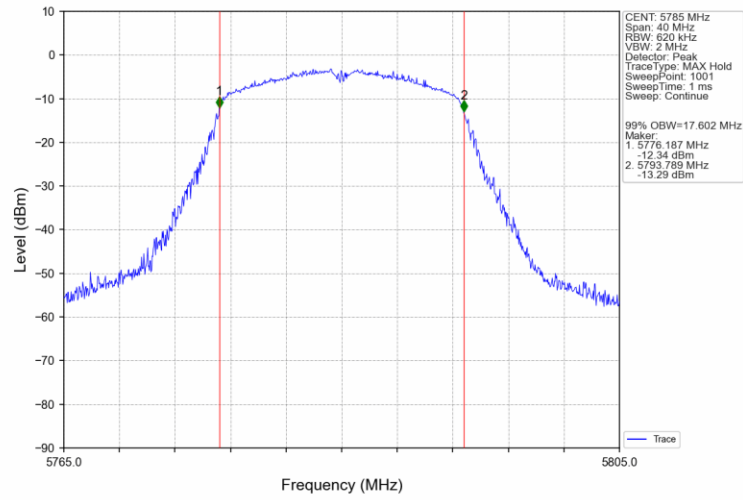
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



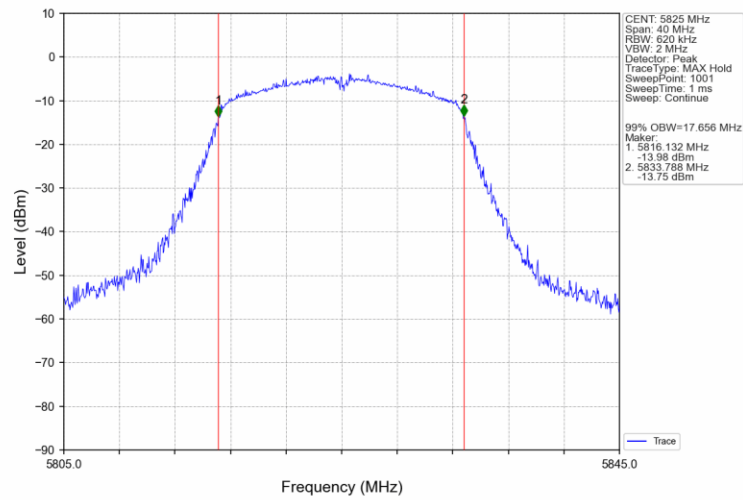
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



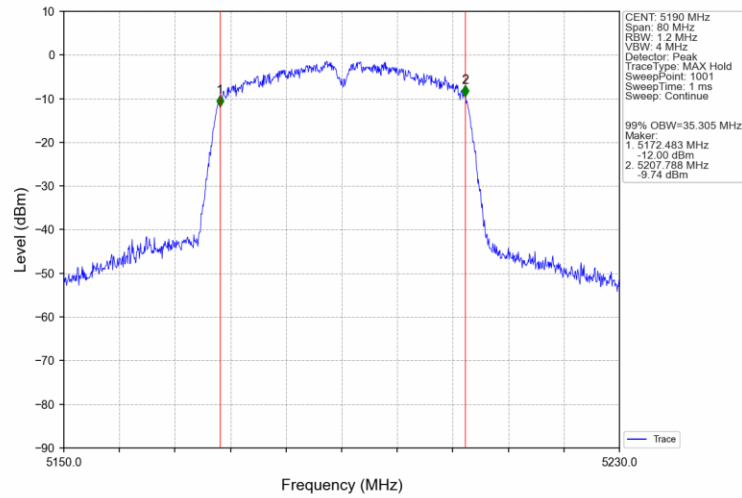
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



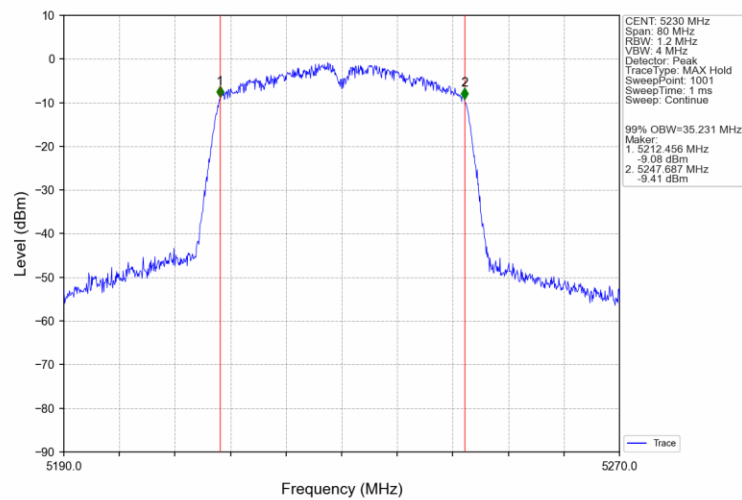
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



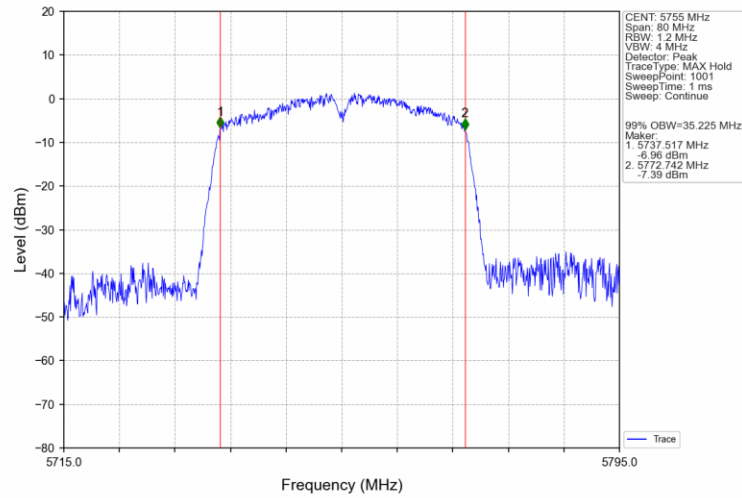
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



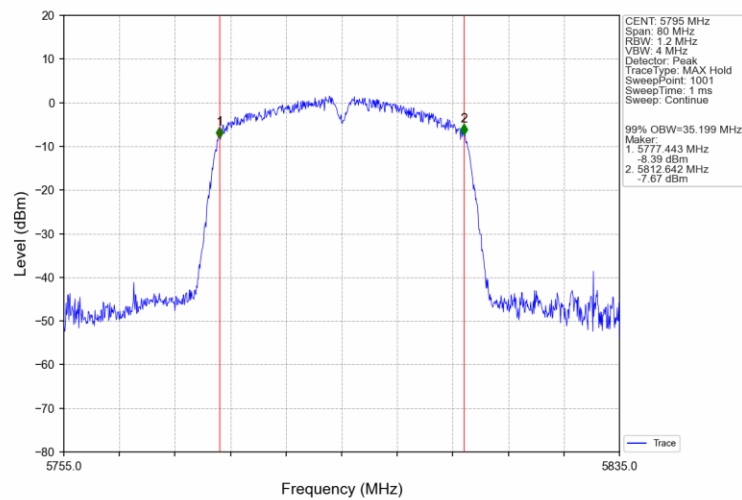
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



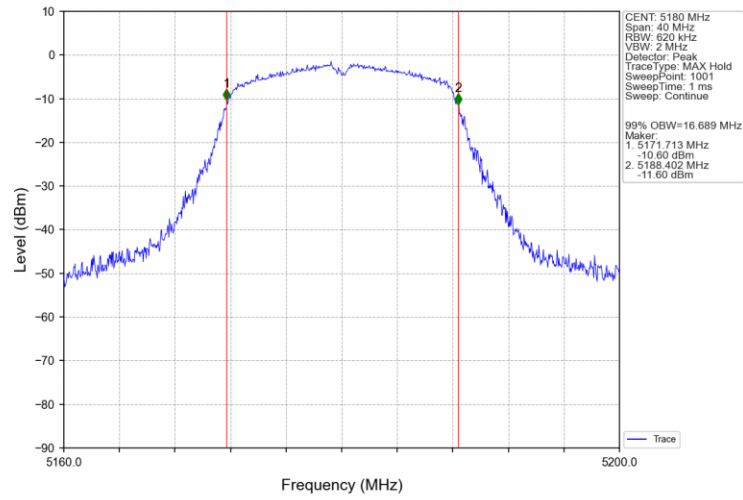
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



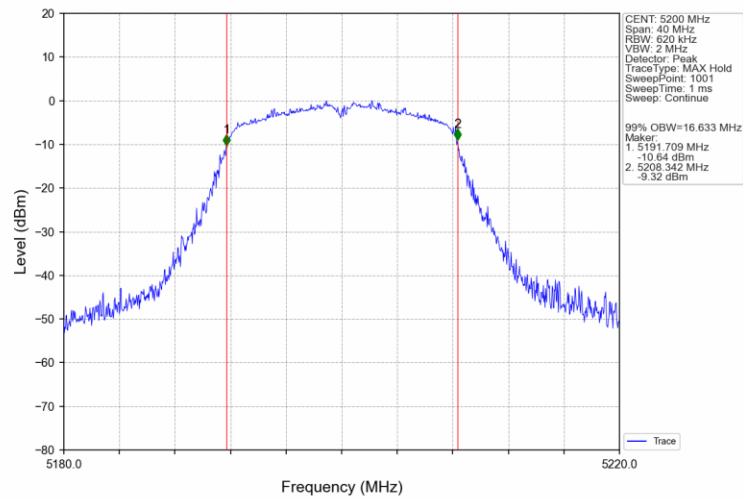
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



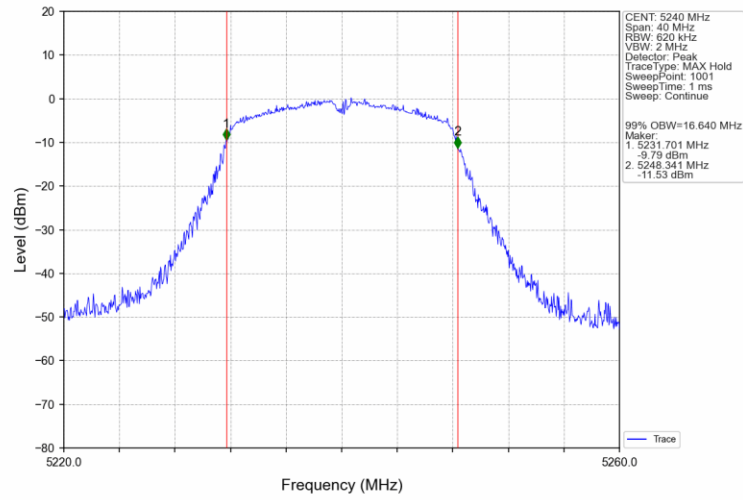
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



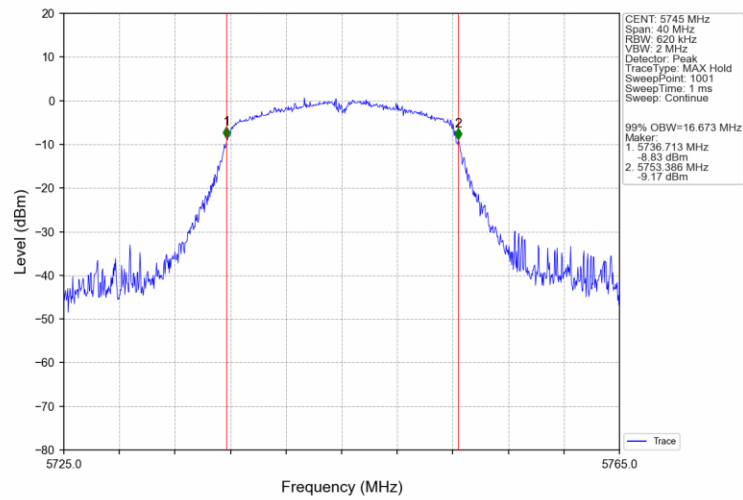
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



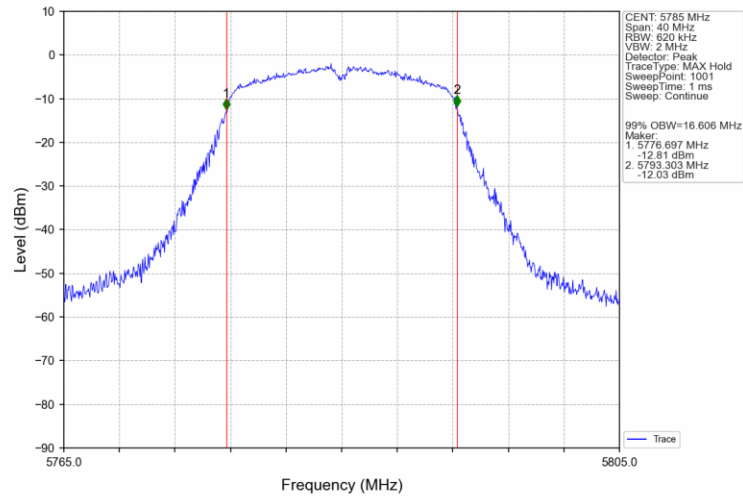
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



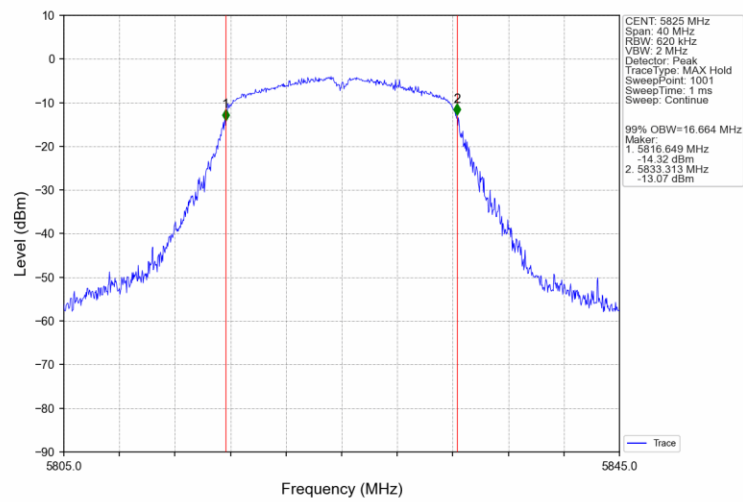
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



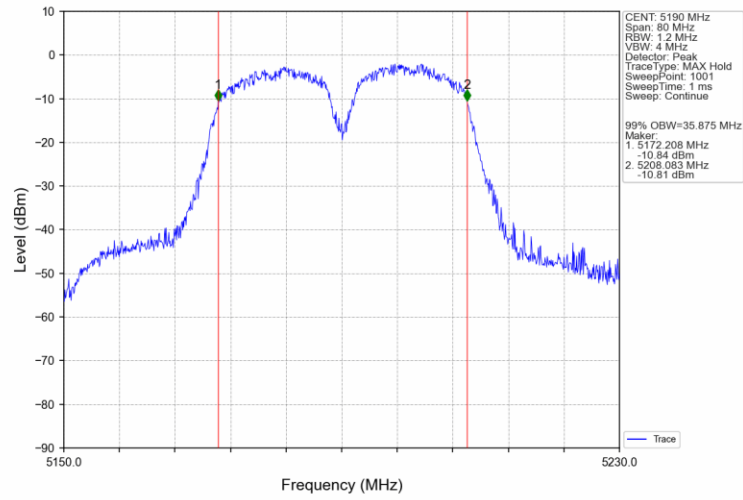
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



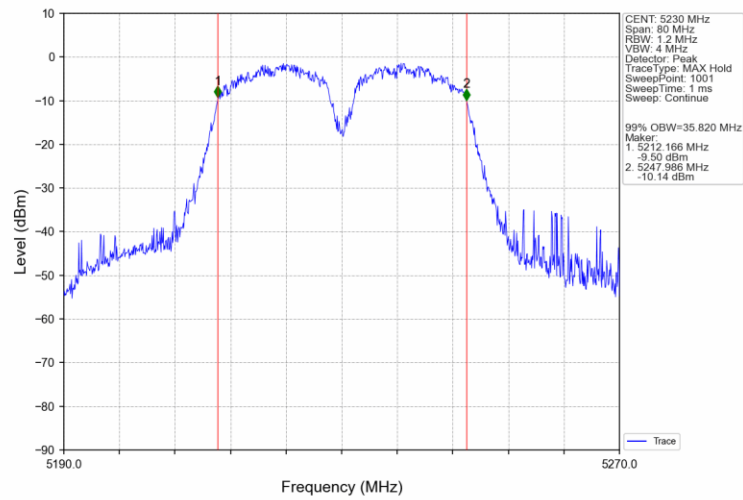
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



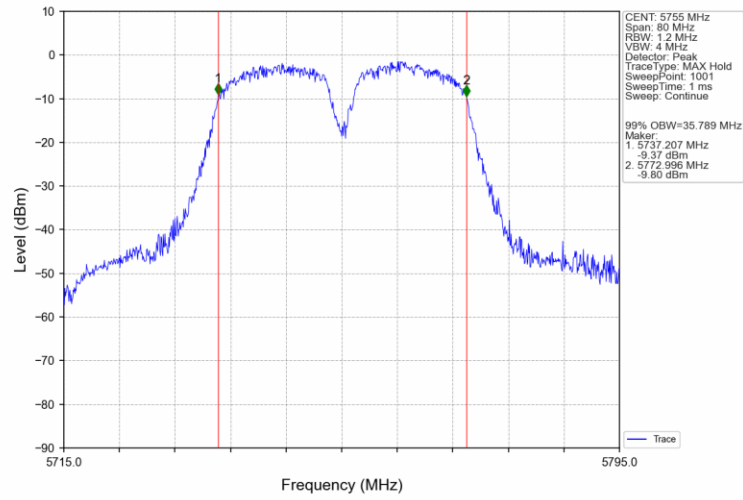
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



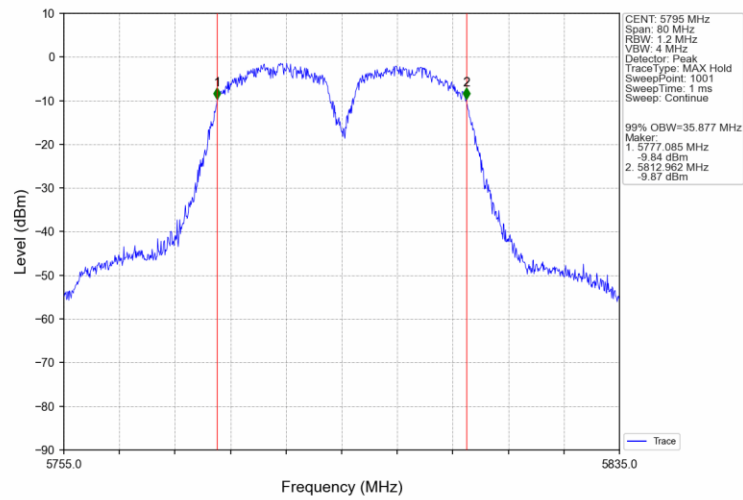
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

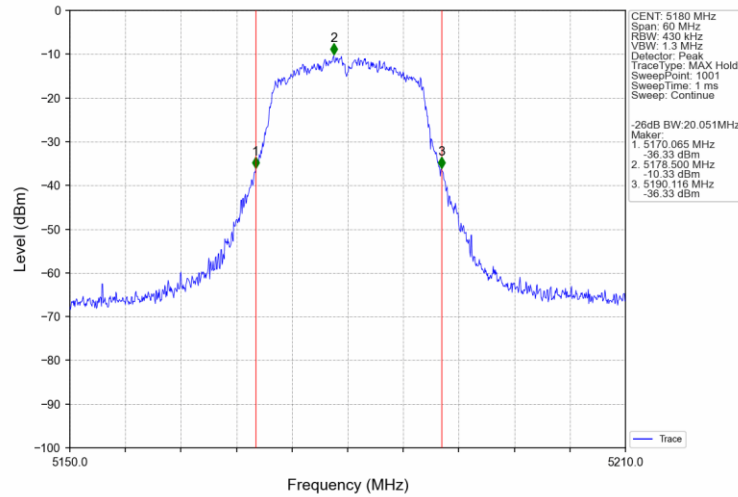


802.11ac(VHT40) HCH 5795MHz_Ant1_NTNV

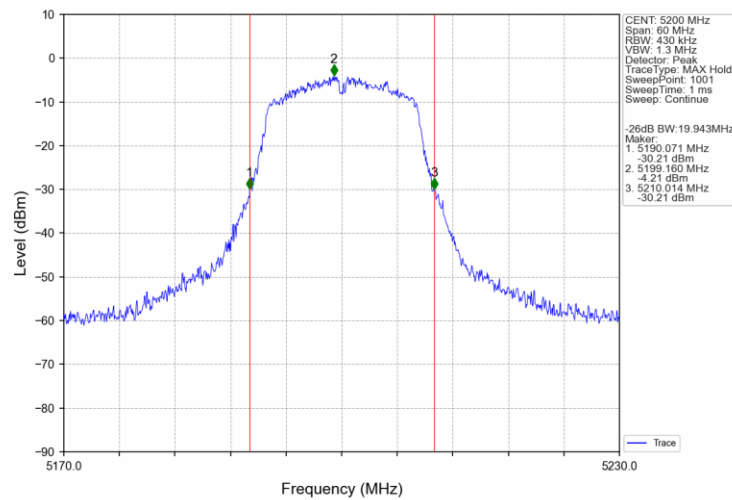


2.2.2 26dB BW

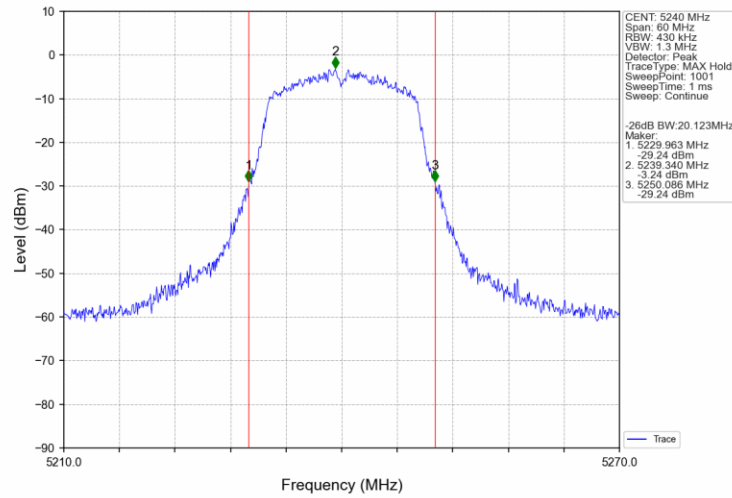
802.11a_LCH_5180MHz_Ant1_NTNV



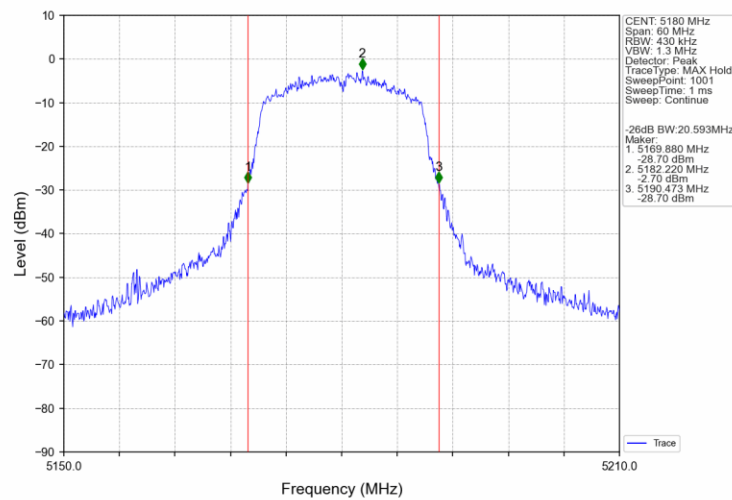
802.11a_MCH_5200MHz_Ant1_NTNV



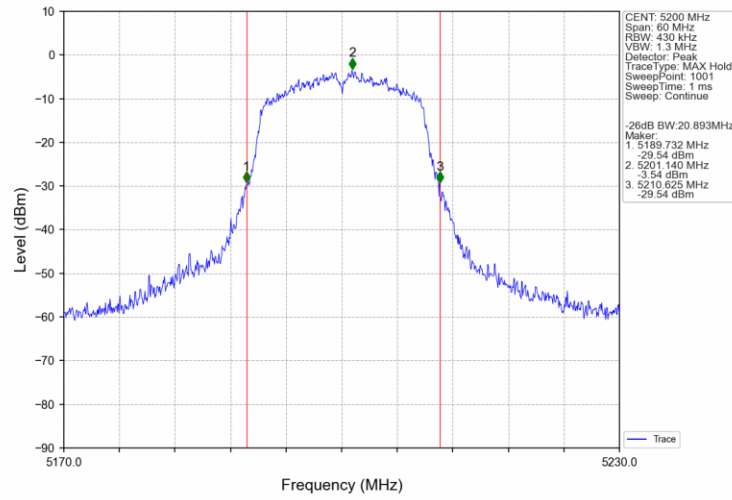
802.11a_HCH_5240MHz_Ant1_NTNV



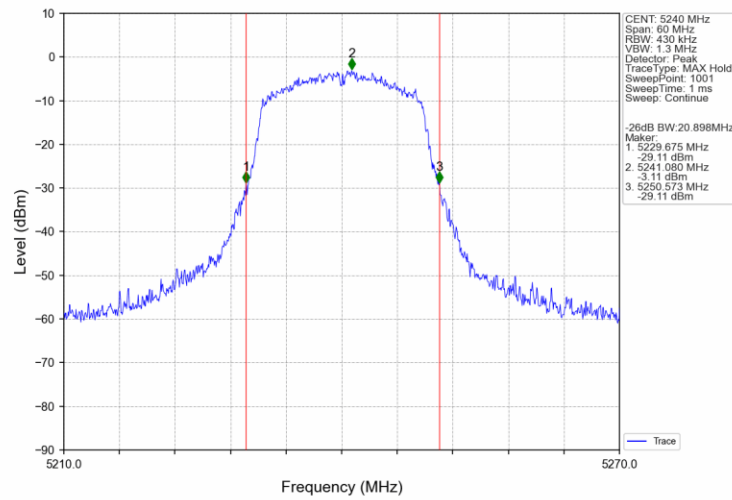
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



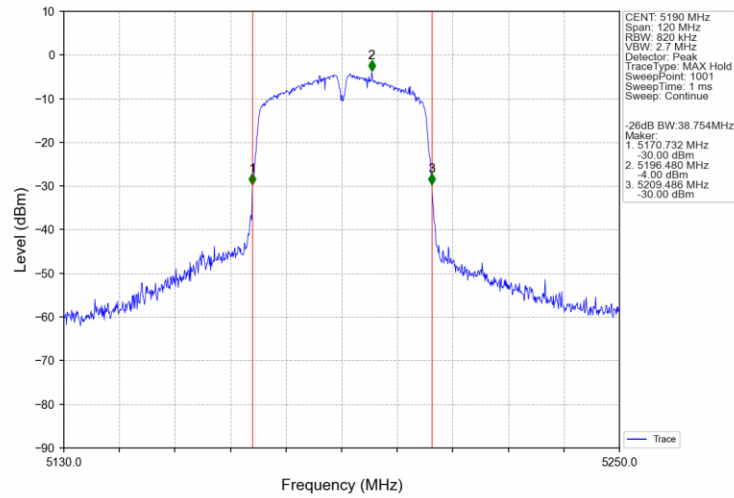
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



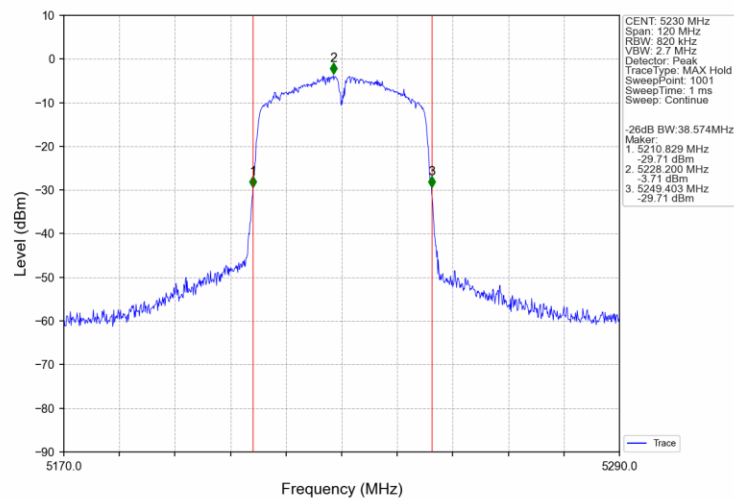
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



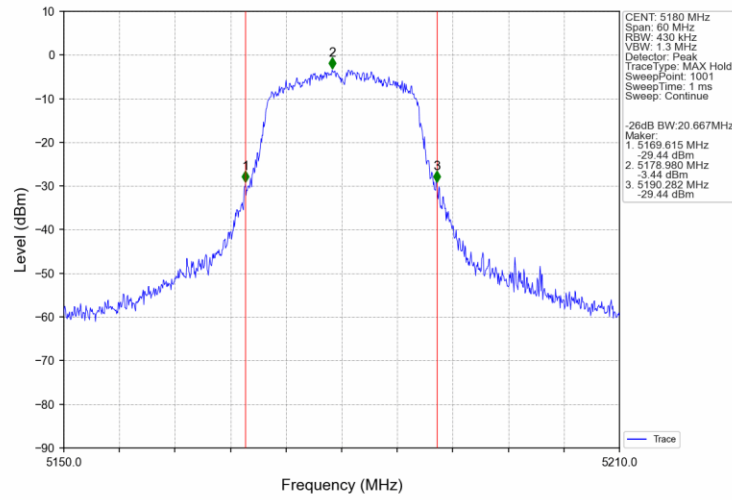
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



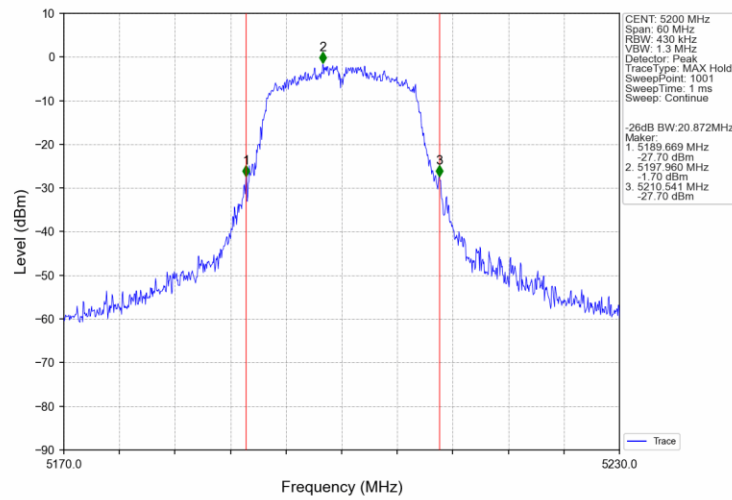
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



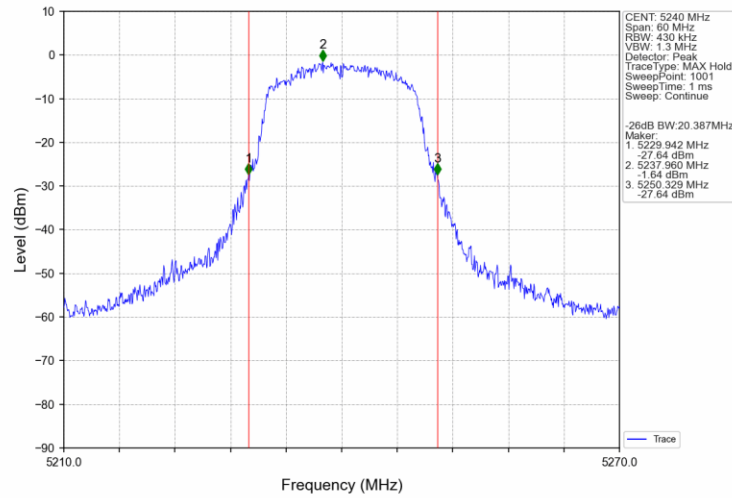
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



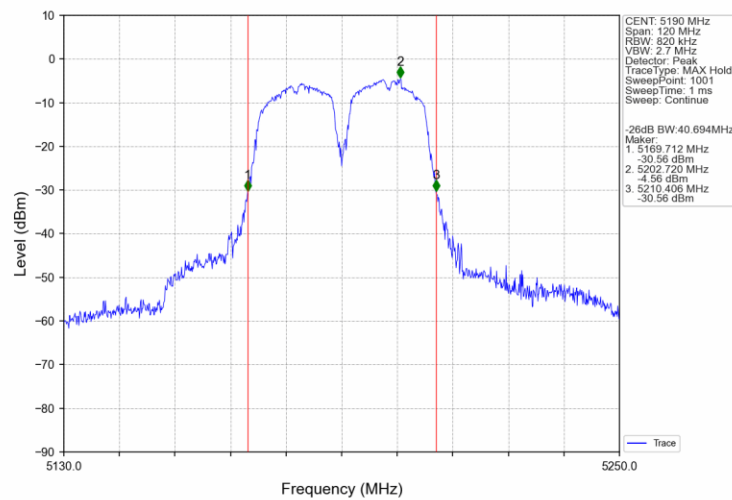
802.11ac(VHT20) MCH 5200MHz_Ant1_NTNV



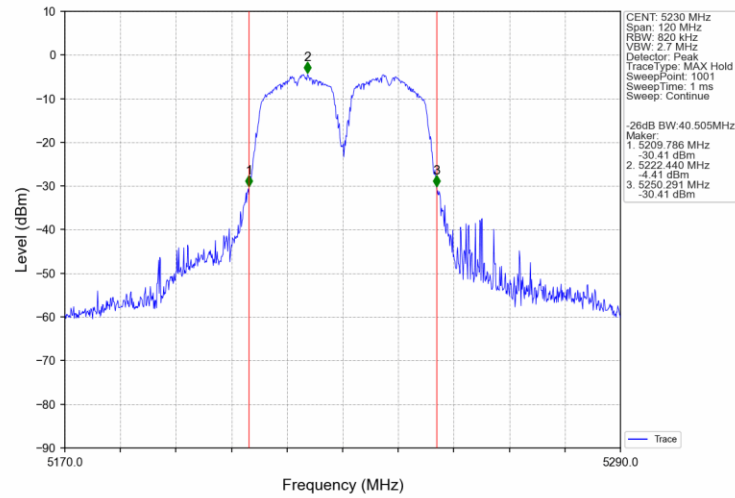
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

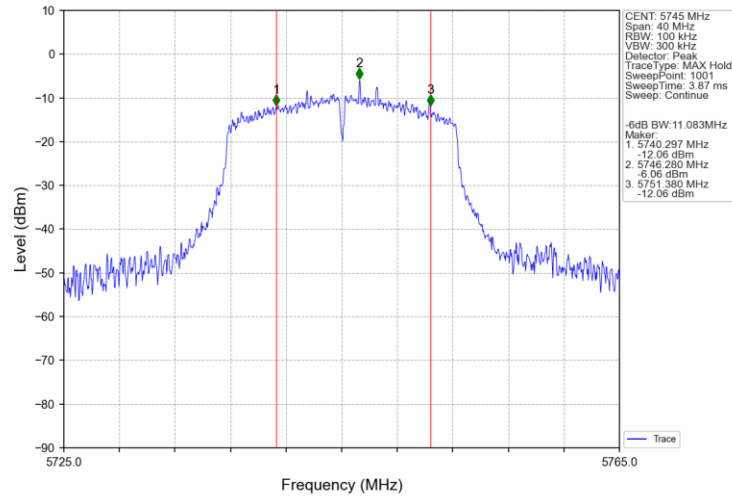


802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

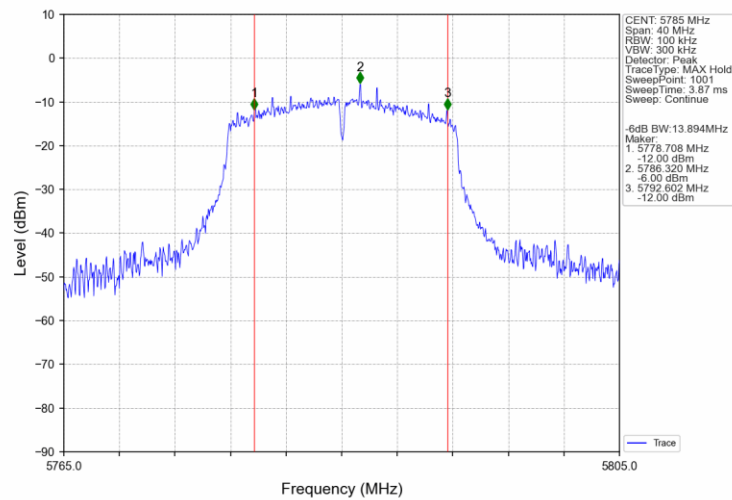


2.2.3 6dB BW

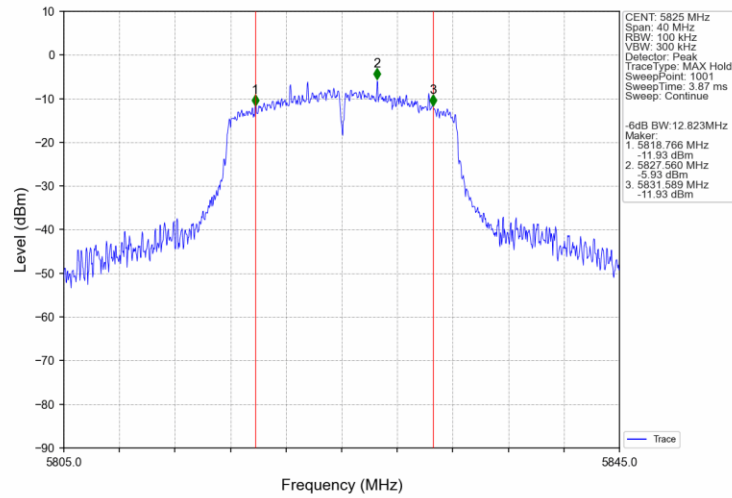
802.11a_LCH_5745MHz_Ant1_NTNV



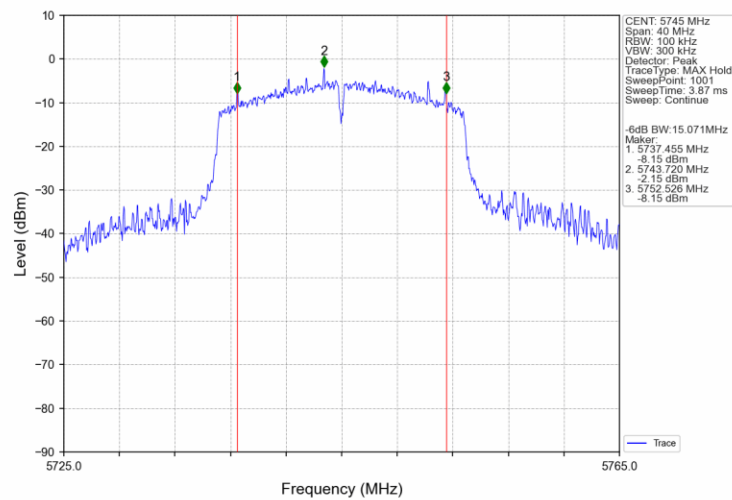
802.11a_MCH_5785MHz_Ant1_NTNV



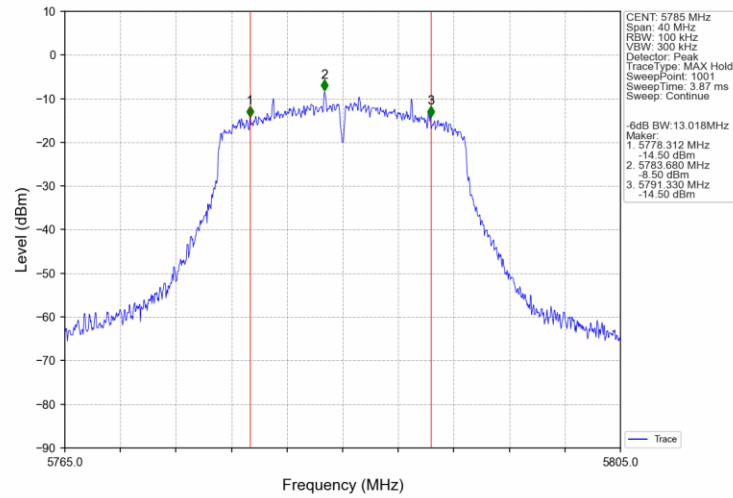
802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

