

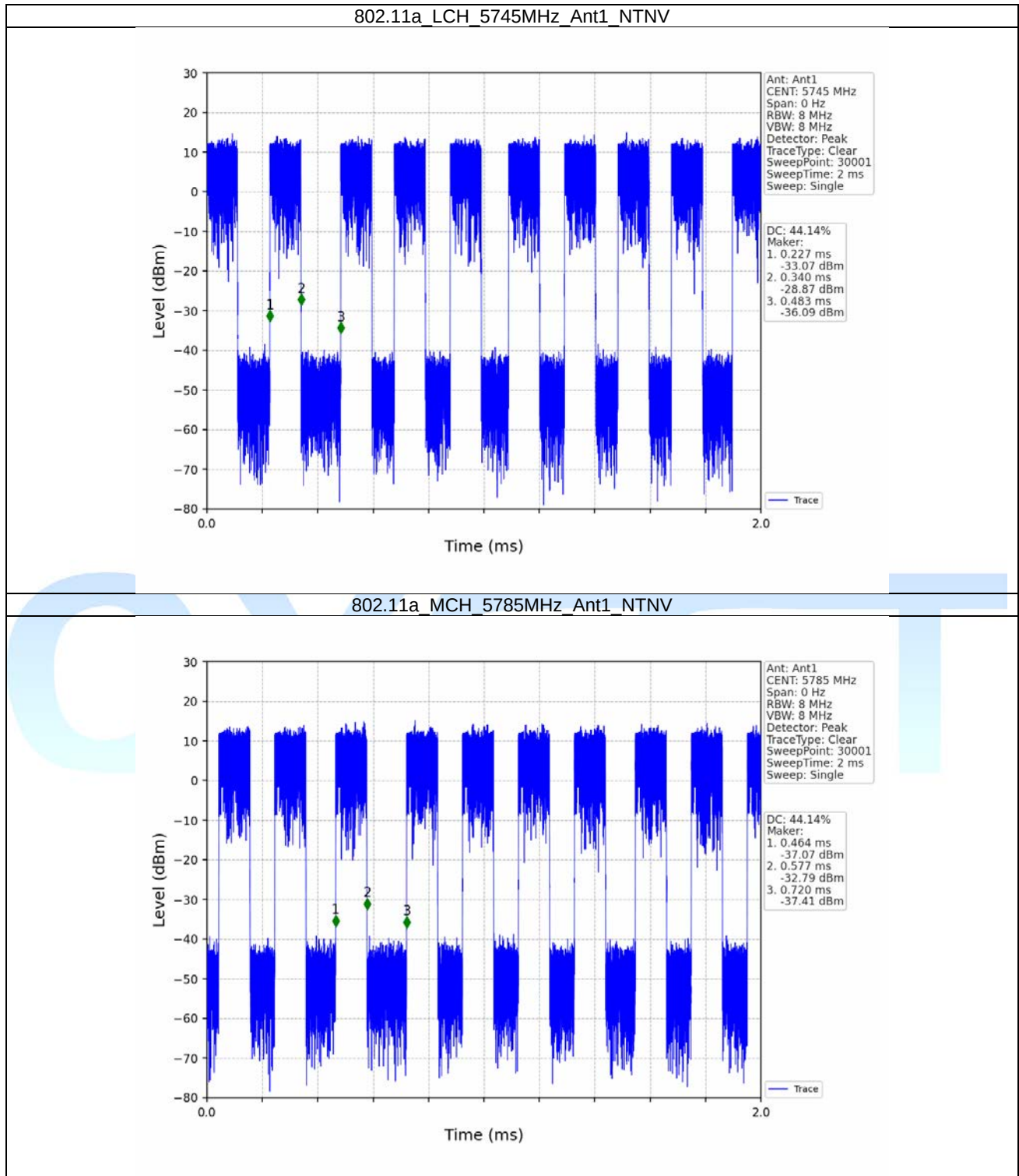
1. Duty Cycle

1.1 Ant1

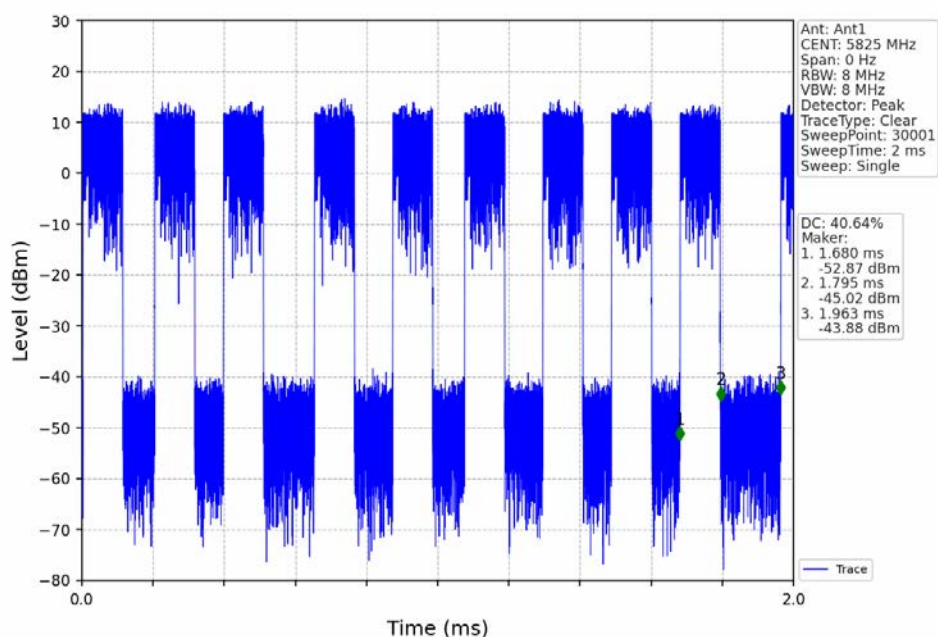
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	0.113	0.256	44.14	3.55	14.45
		5785	0.113	0.256	44.14	3.55	11.83
		5825	0.115	0.283	40.64	3.91	19.04
802.11n (HT20)	SISO	5745	0.113	0.310	36.45	4.38	63.54
		5785	0.112	0.247	45.34	3.43	12.76
		5825	0.113	0.229	49.34	3.07	9.21
802.11n (HT40)	SISO	5755	0.072	0.261	27.59	5.59	19.71
		5795	0.073	0.234	31.20	5.06	16.55
802.11ac (VHT20)	SISO	5745	0.121	0.308	39.29	4.06	60.88
		5785	0.120	0.254	47.24	3.26	12.86
		5825	0.121	0.281	43.06	3.66	17.38
802.11ac (VHT40)	SISO	5755	0.080	0.250	32.00	4.95	18.08
		5795	0.081	0.250	32.40	4.89	17.99
802.11ac (VHT80)	SISO	5775	0.059	0.228	25.88	5.87	16.70

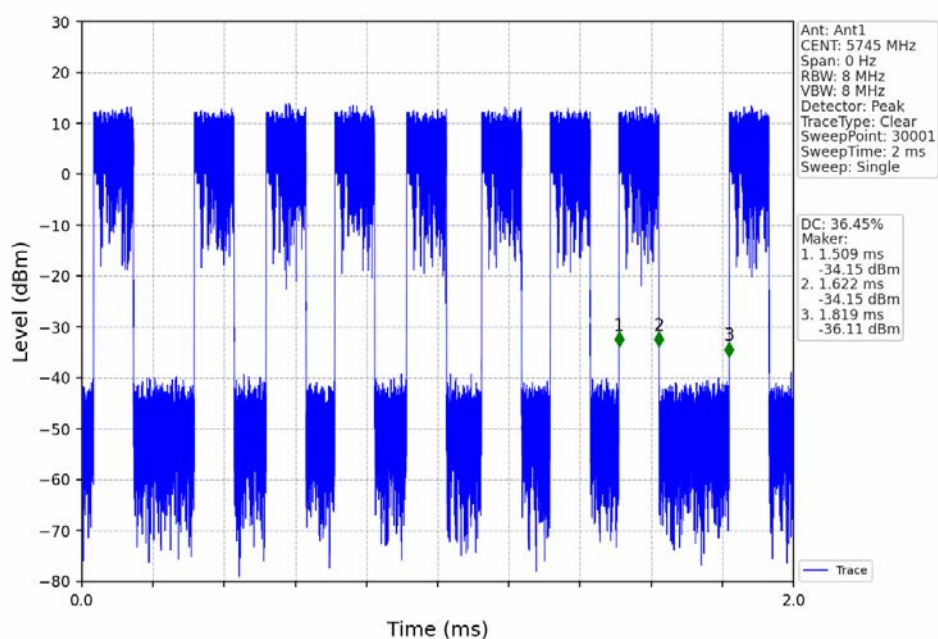
1.1.2 Test Graph



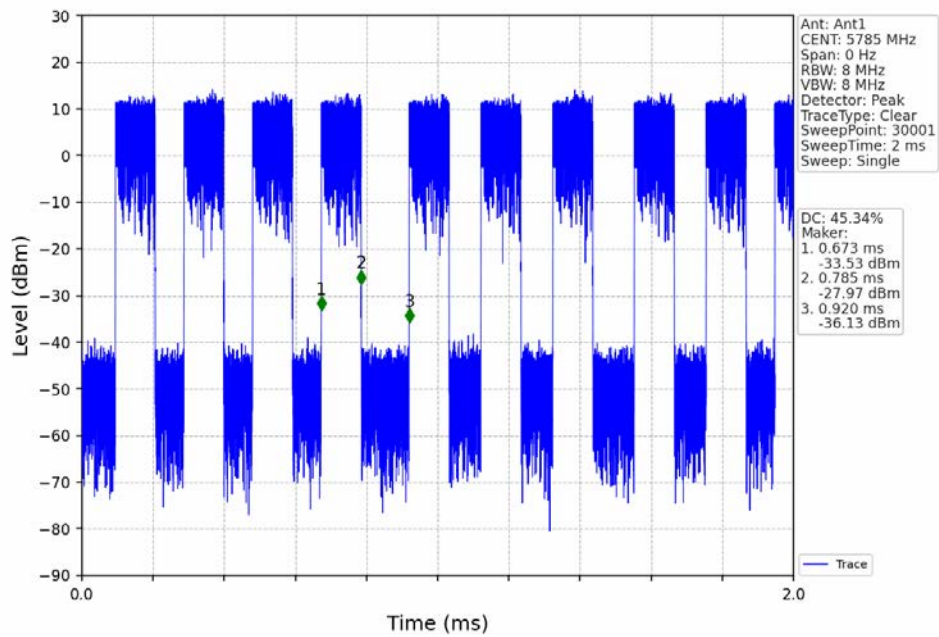
802.11a_HCH_5825MHz_Ant1_NTNV



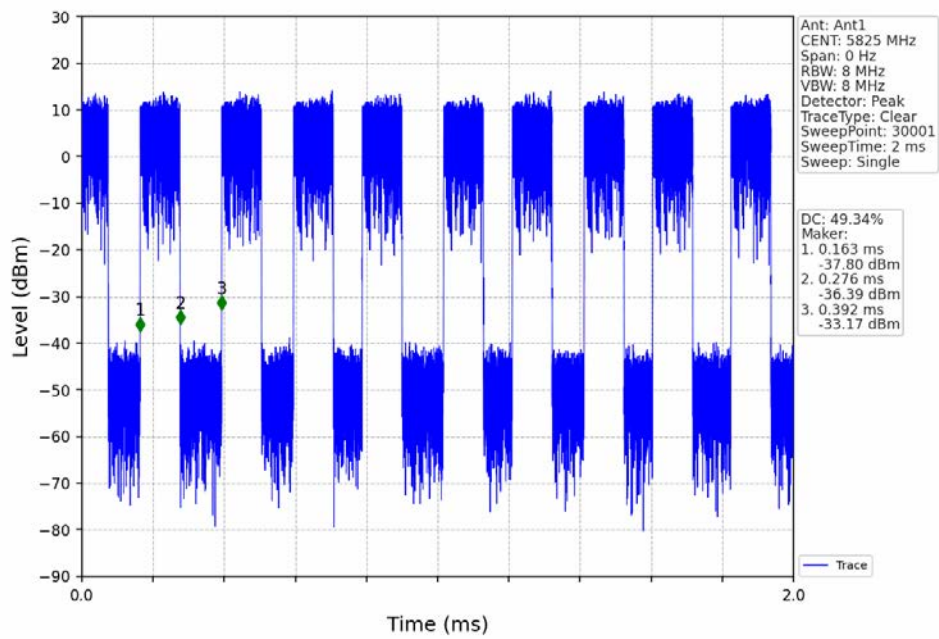
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



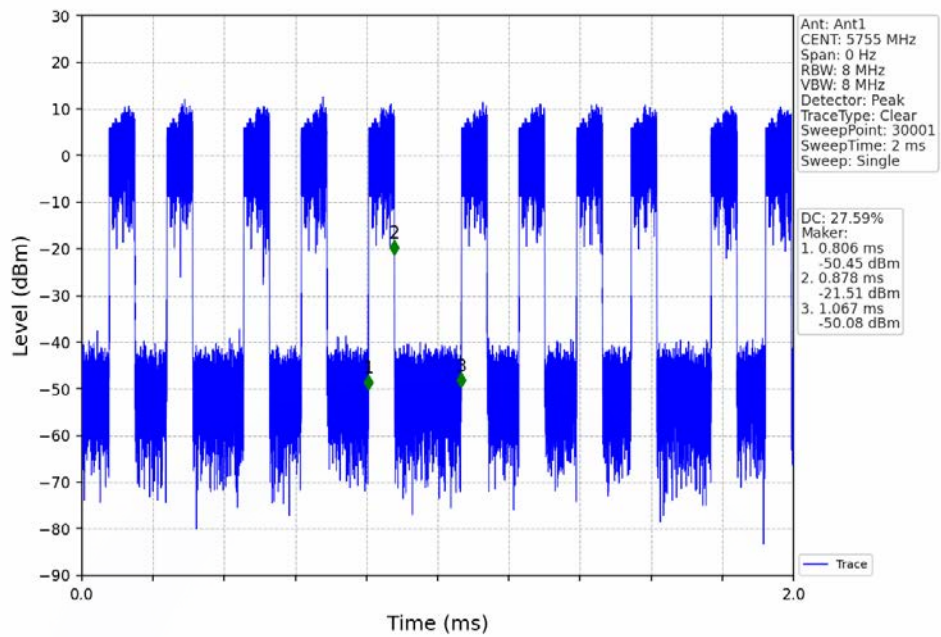
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



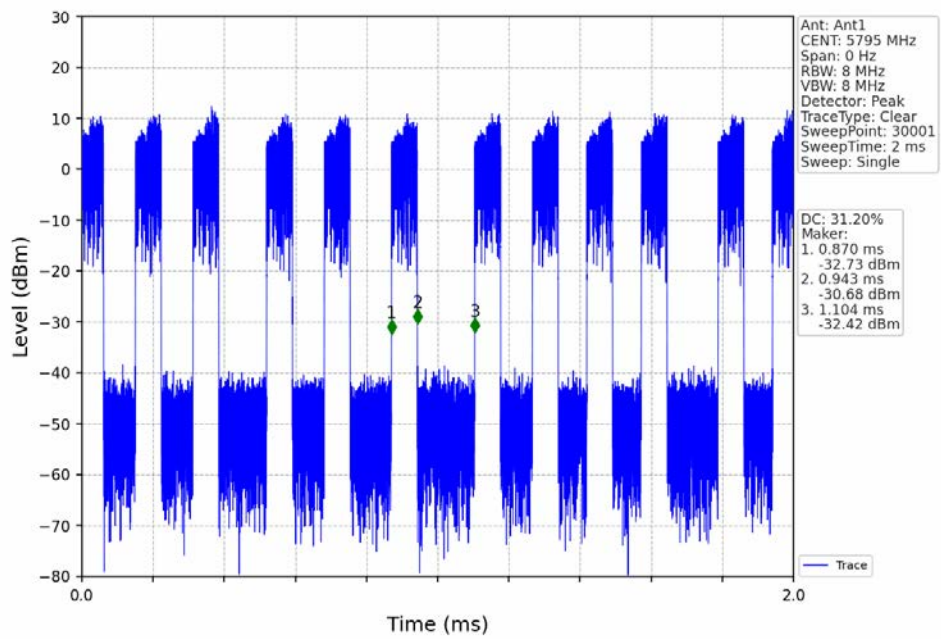
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



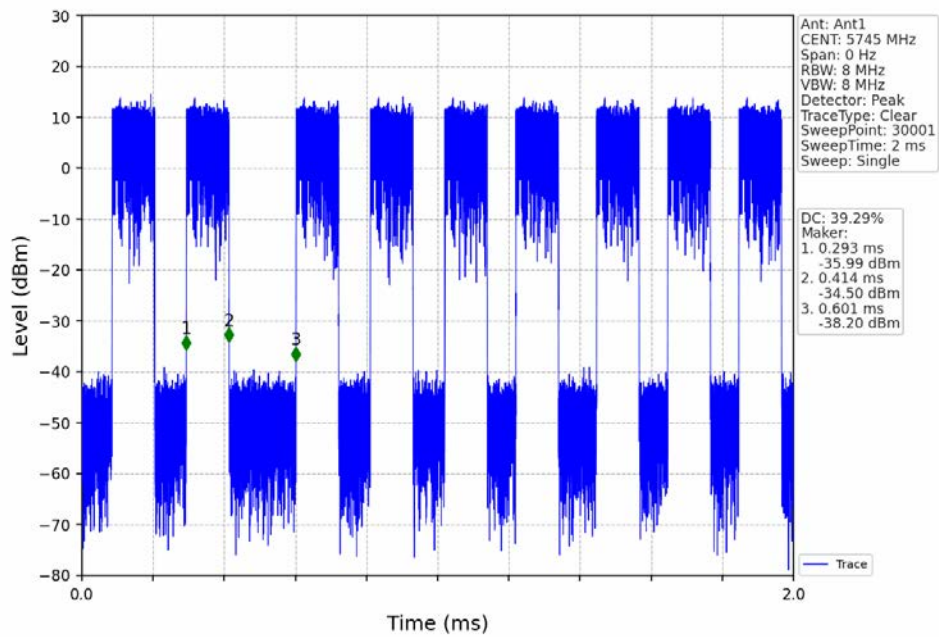
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



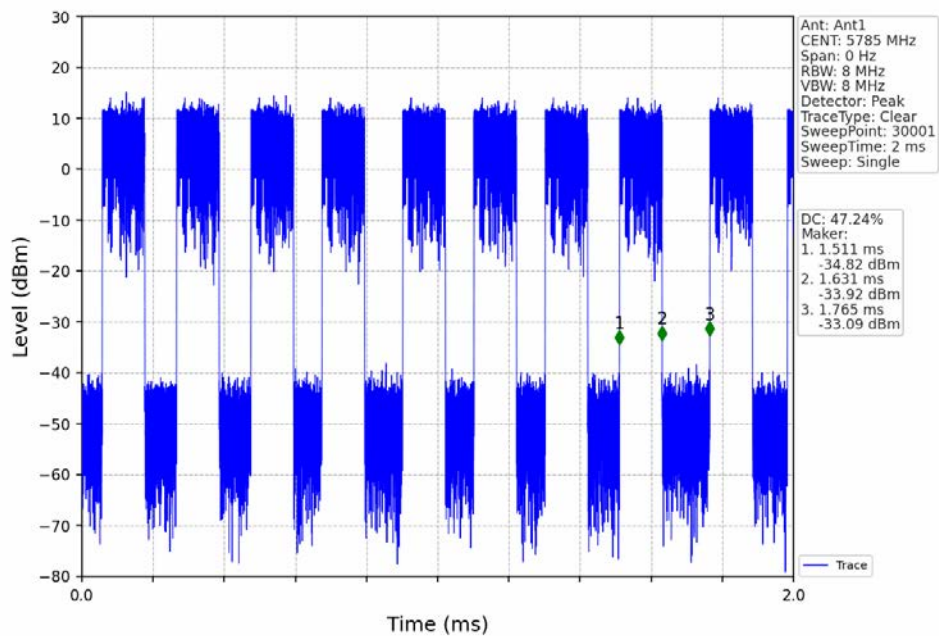
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



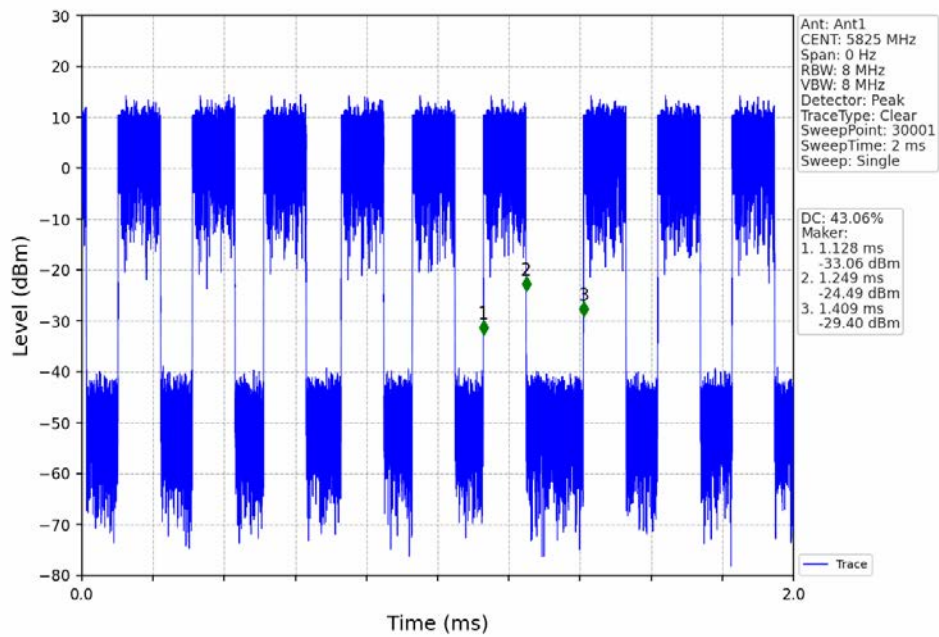
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



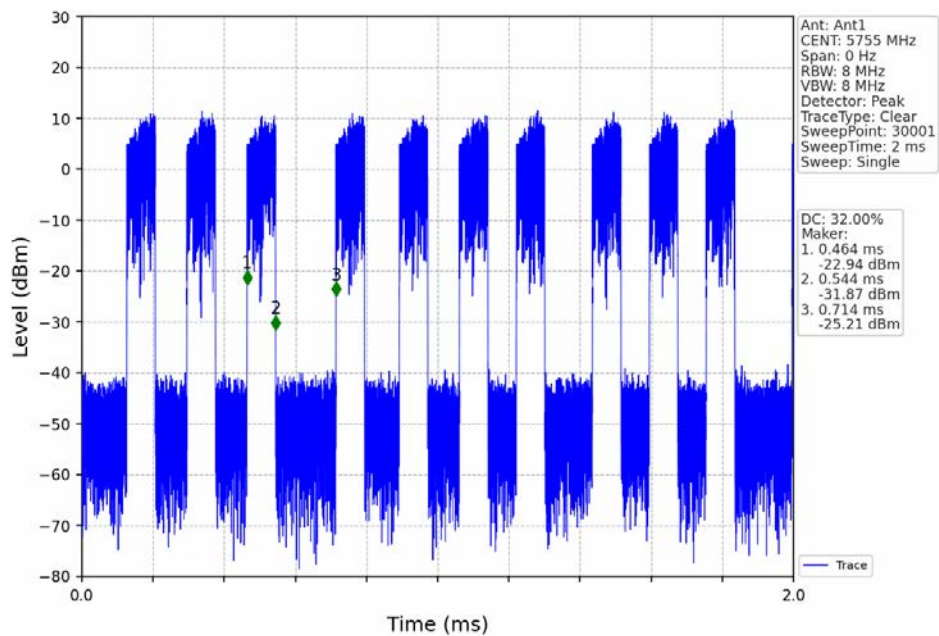
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



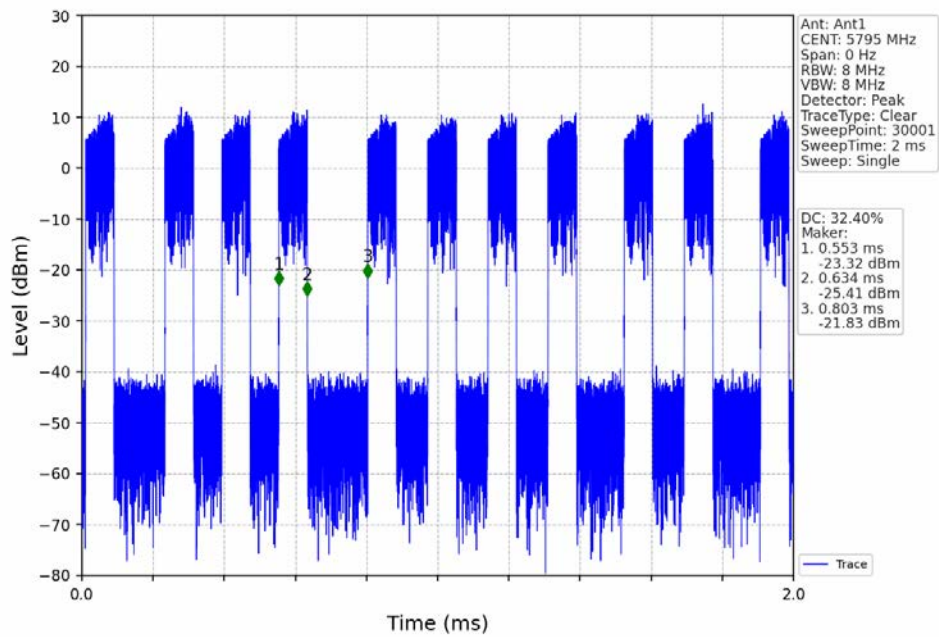
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



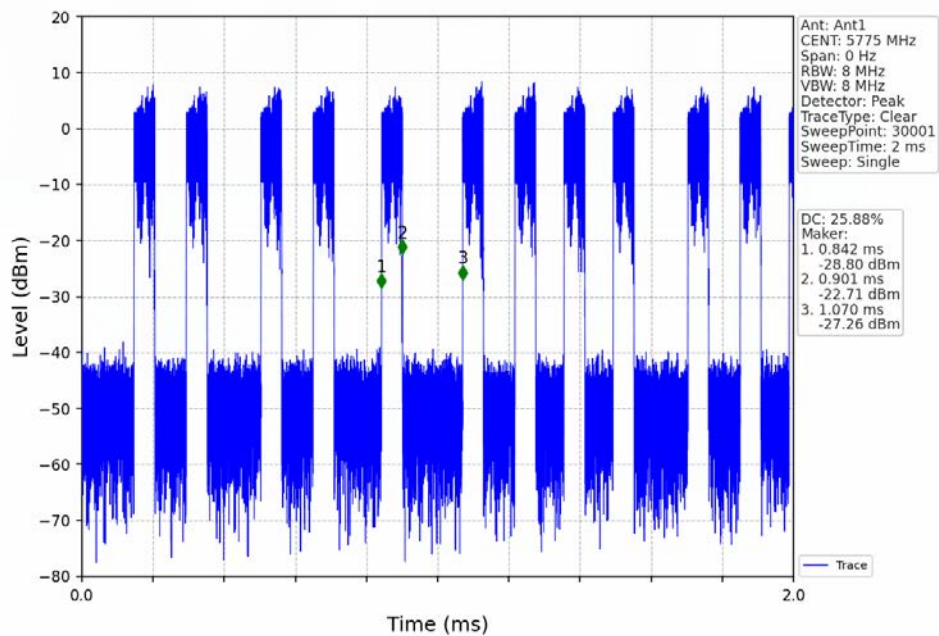
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



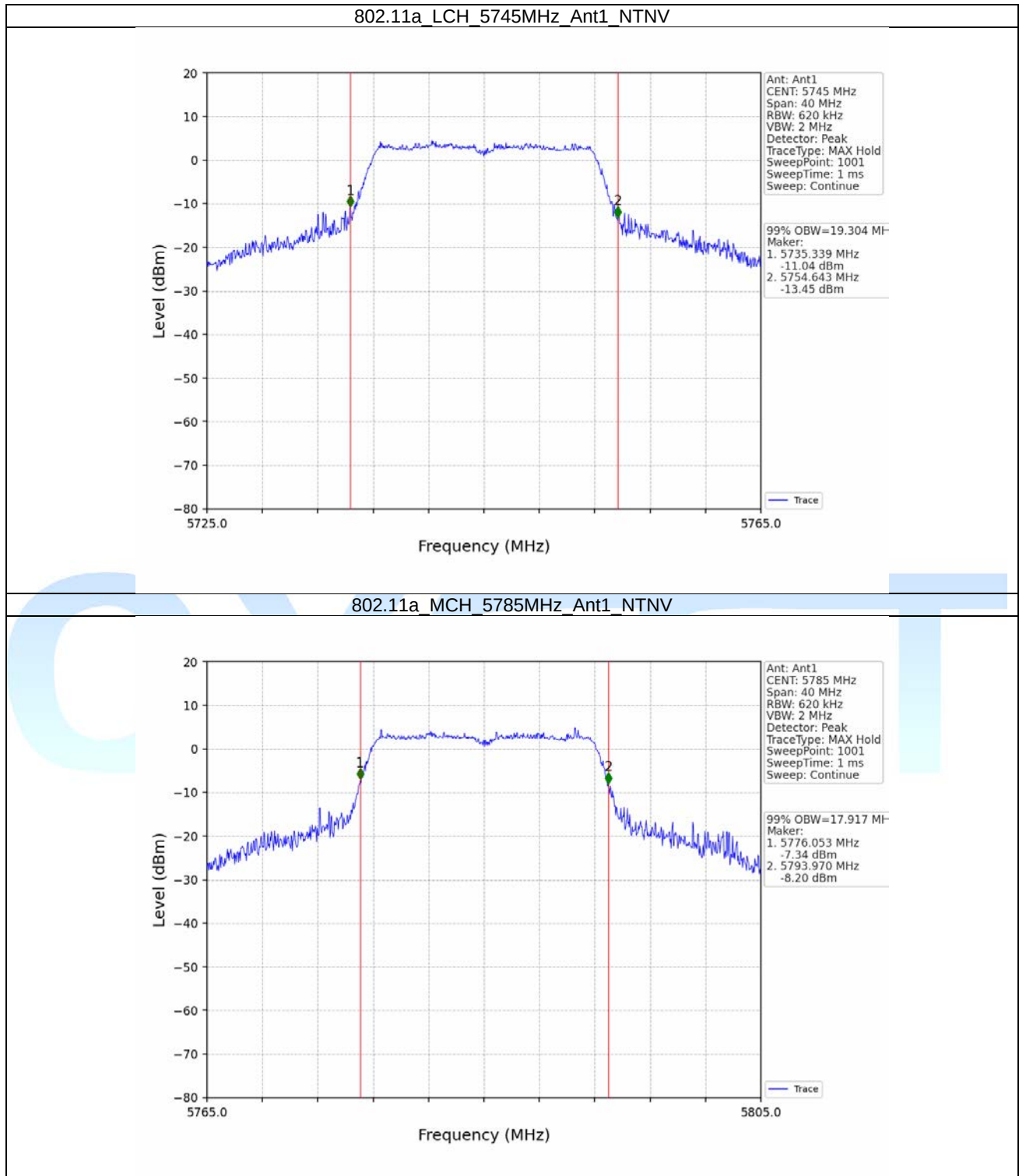
2. Bandwidth

2.1 OBW

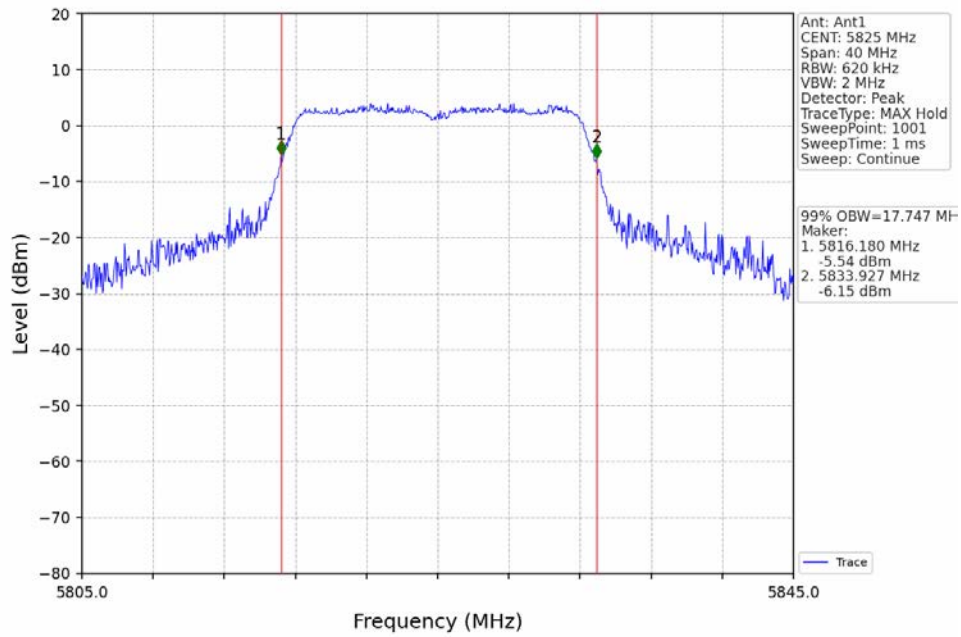
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	19.304	/	Pass
		5785	1	17.917	/	Pass
		5825	1	17.747	/	Pass
802.11n (HT20)	SISO	5745	1	18.874	/	Pass
		5785	1	18.521	/	Pass
		5825	1	18.400	/	Pass
802.11n (HT40)	SISO	5755	1	37.329	/	Pass
		5795	1	36.743	/	Pass
802.11ac (VHT20)	SISO	5745	1	18.623	/	Pass
		5785	1	18.317	/	Pass
		5825	1	18.146	/	Pass
802.11ac (VHT40)	SISO	5755	1	36.974	/	Pass
		5795	1	36.718	/	Pass
802.11ac (VHT80)	SISO	5775	1	76.913	/	Pass

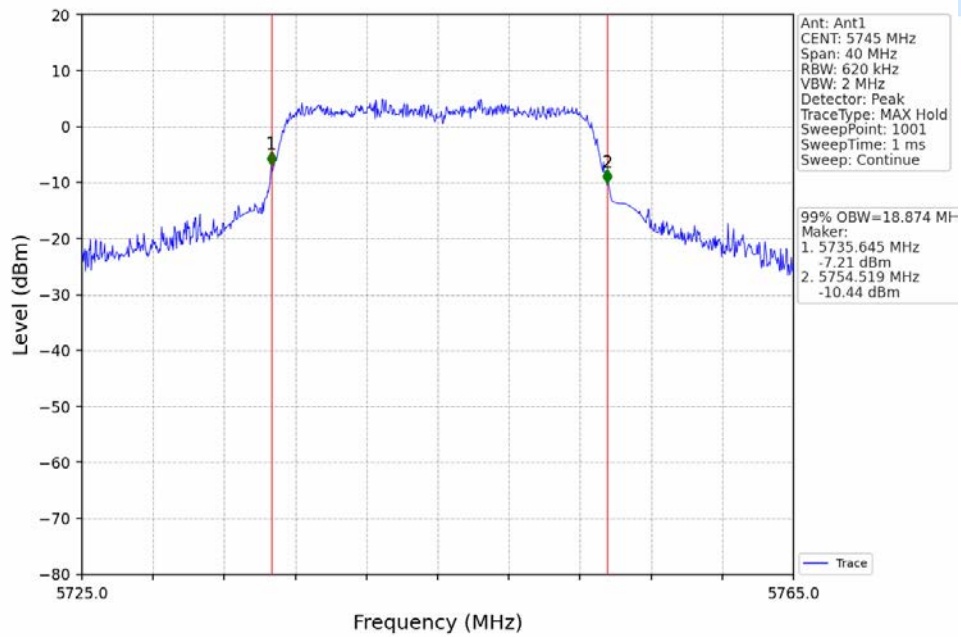
2.1.2 Test Graph



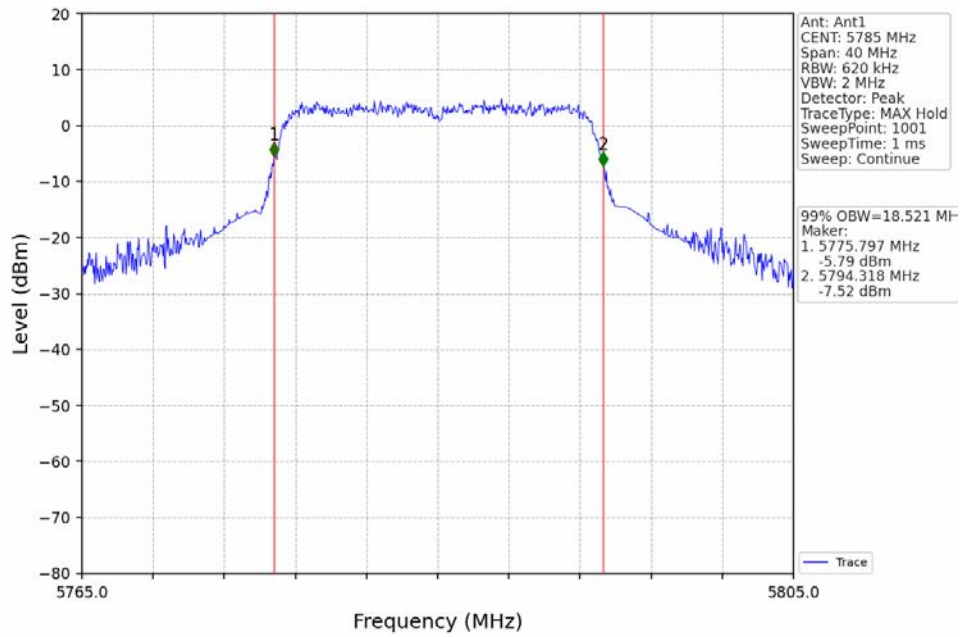
802.11a_HCH_5825MHz_Ant1_NTNV



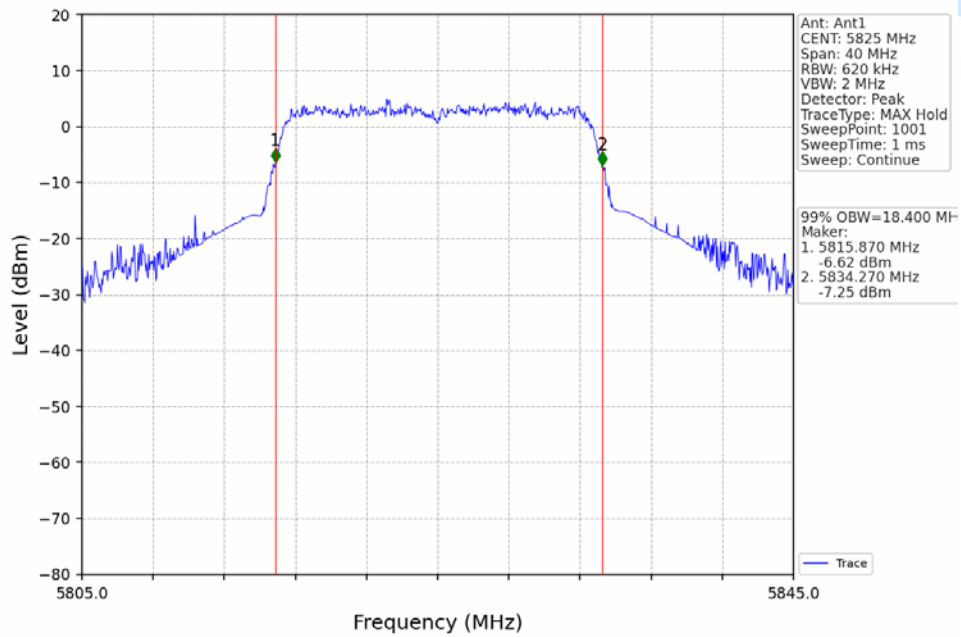
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



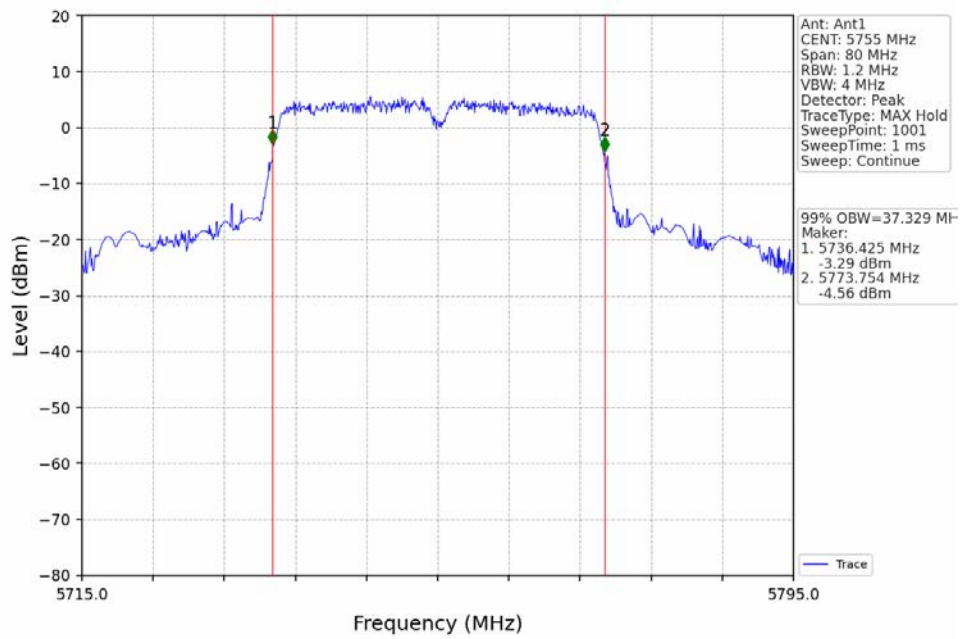
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



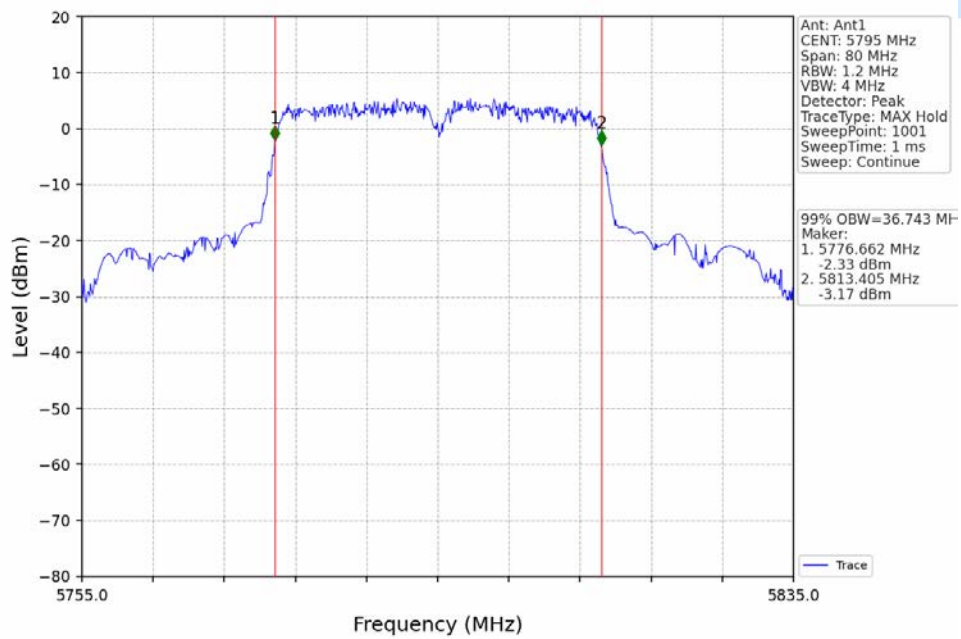
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



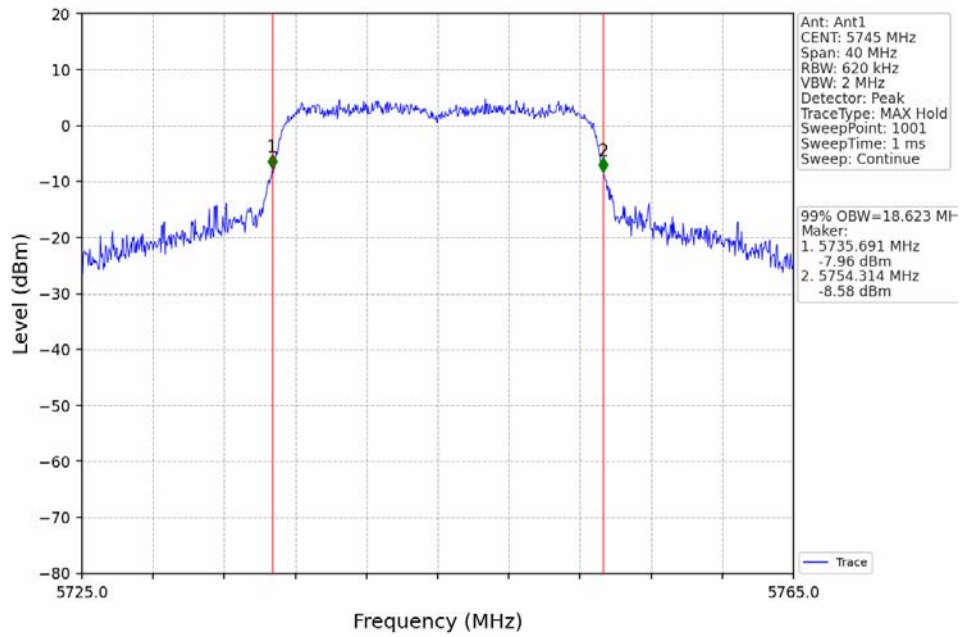
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



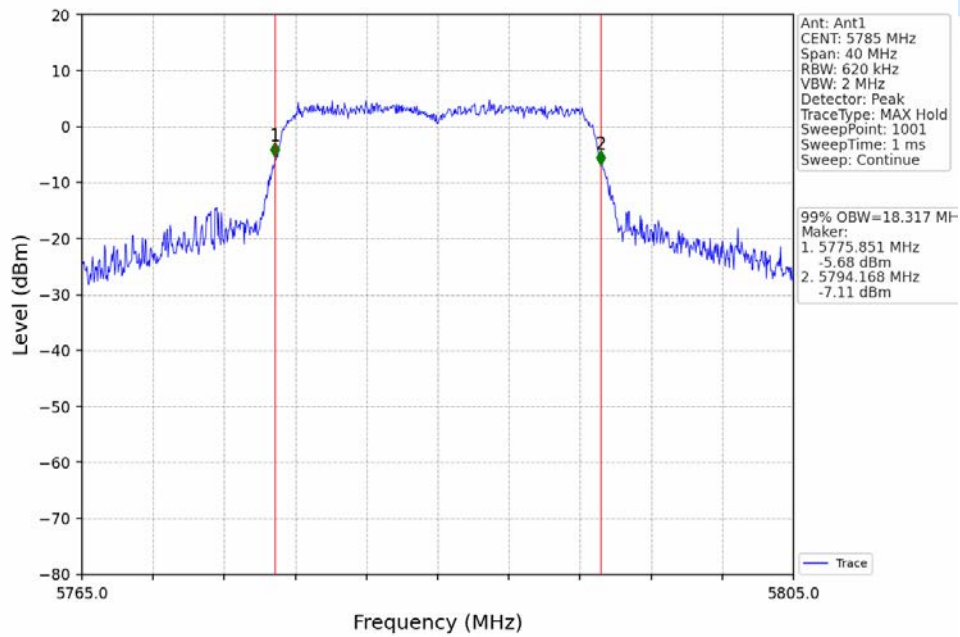
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



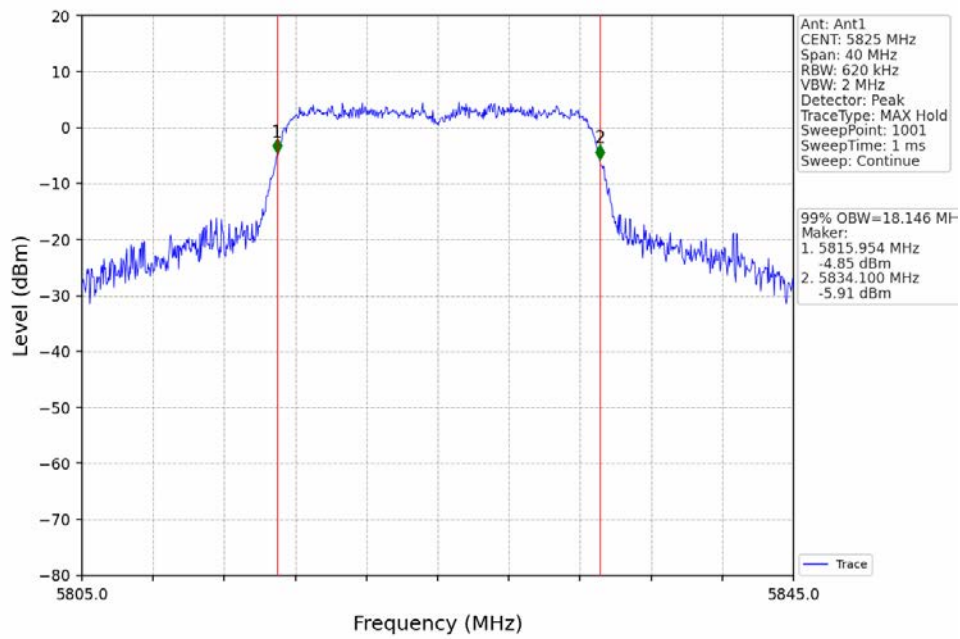
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



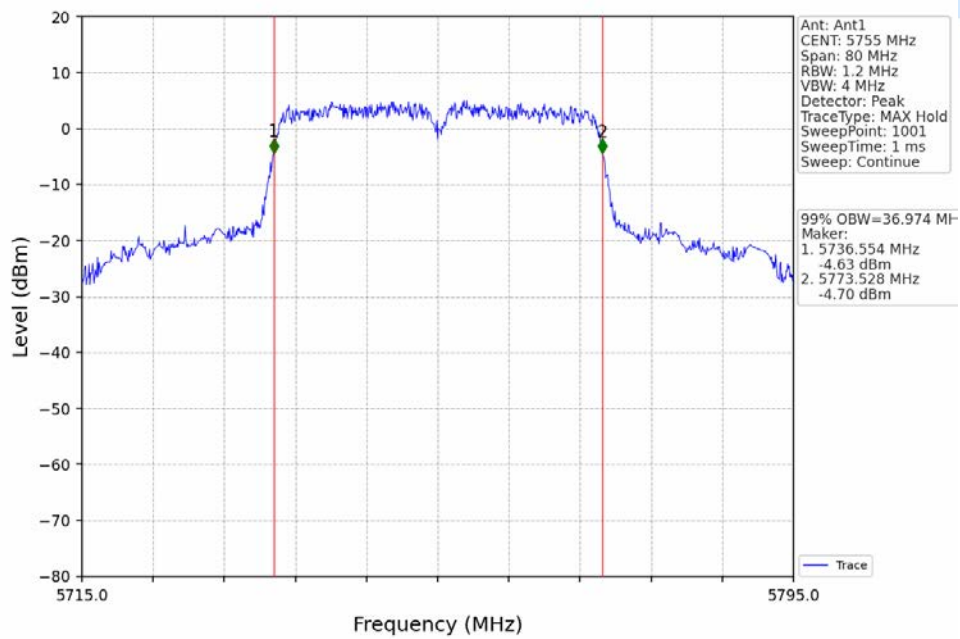
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



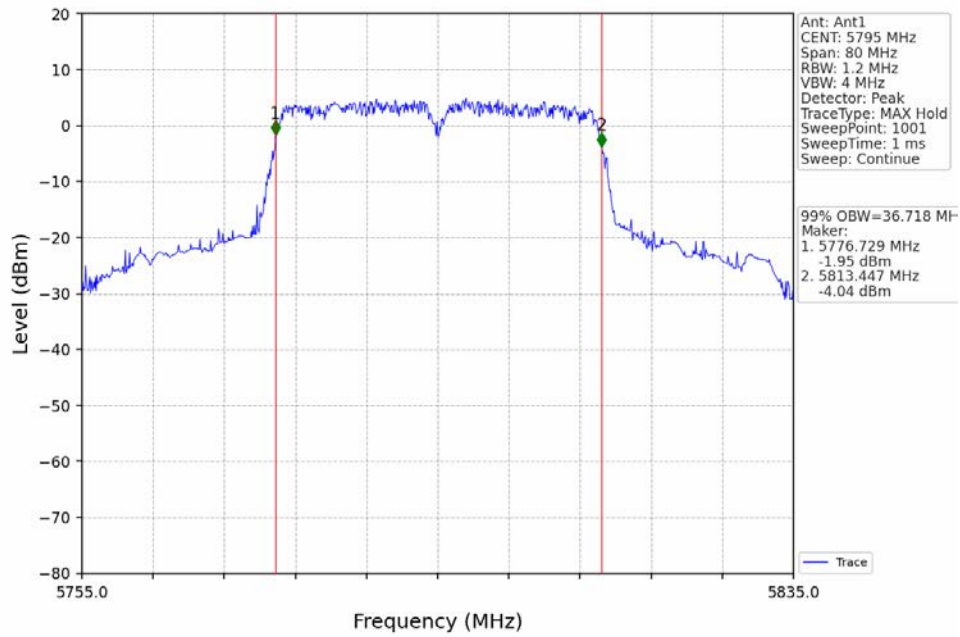
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



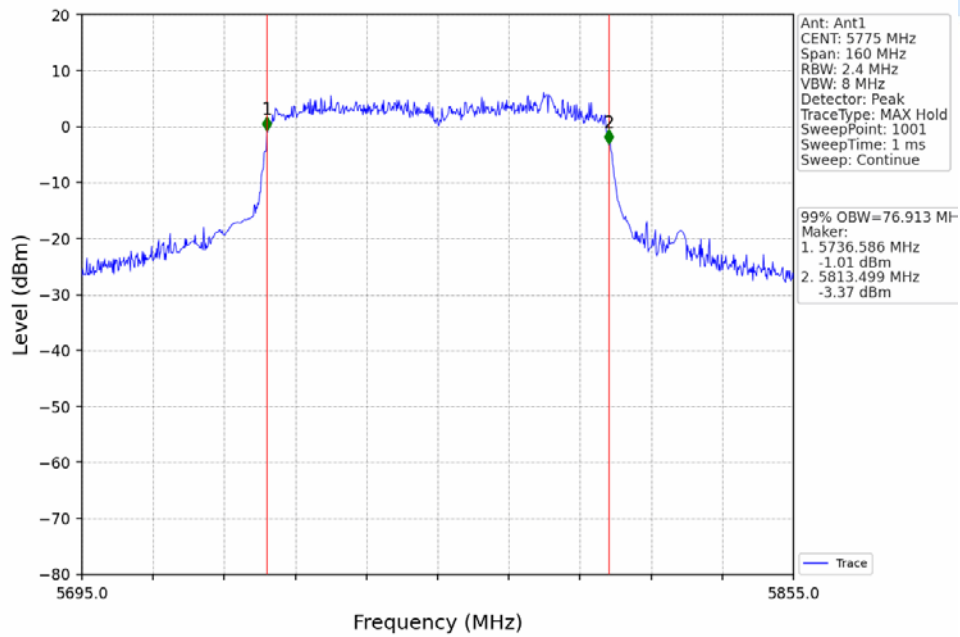
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

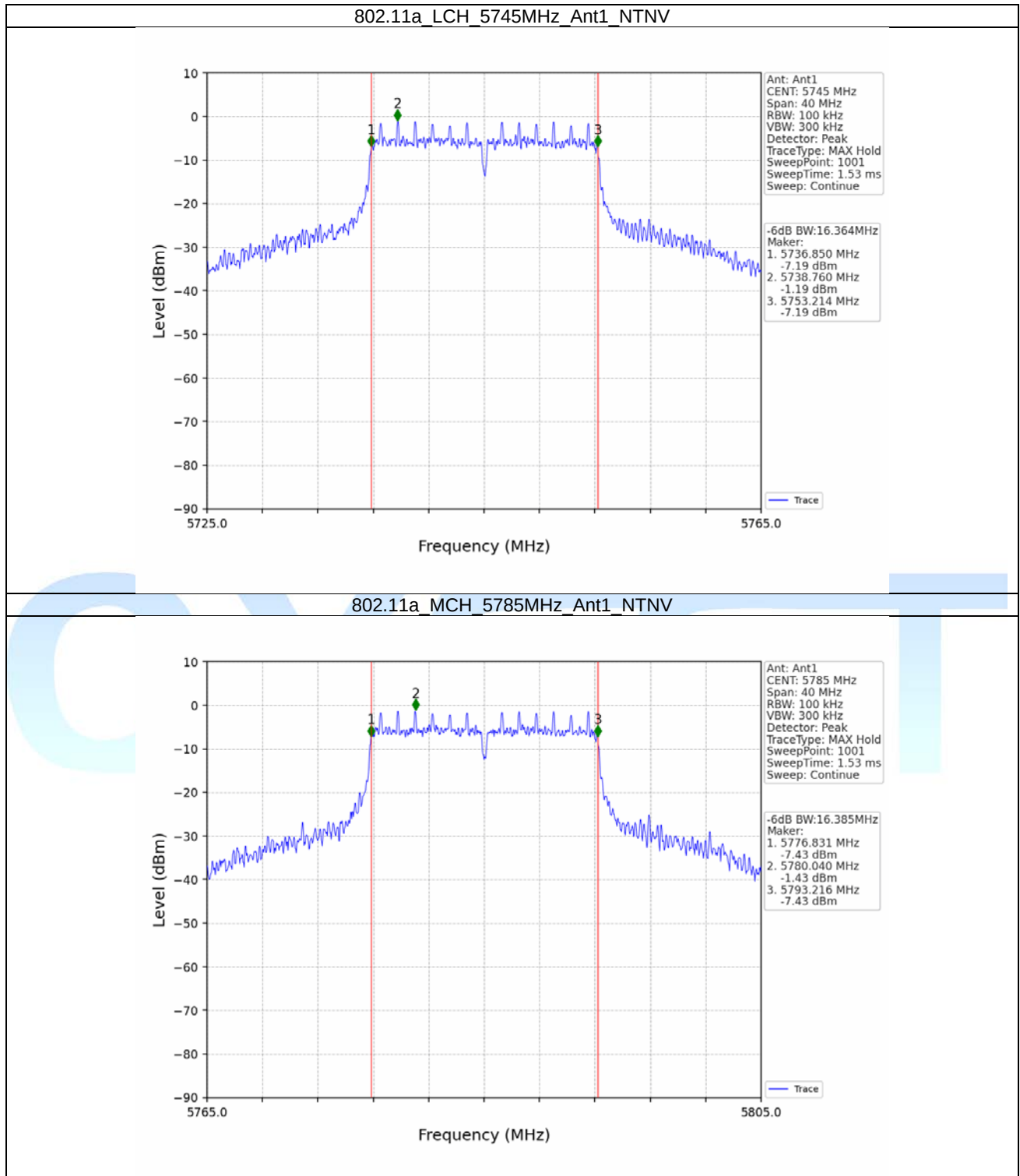


2.2 6dB BW

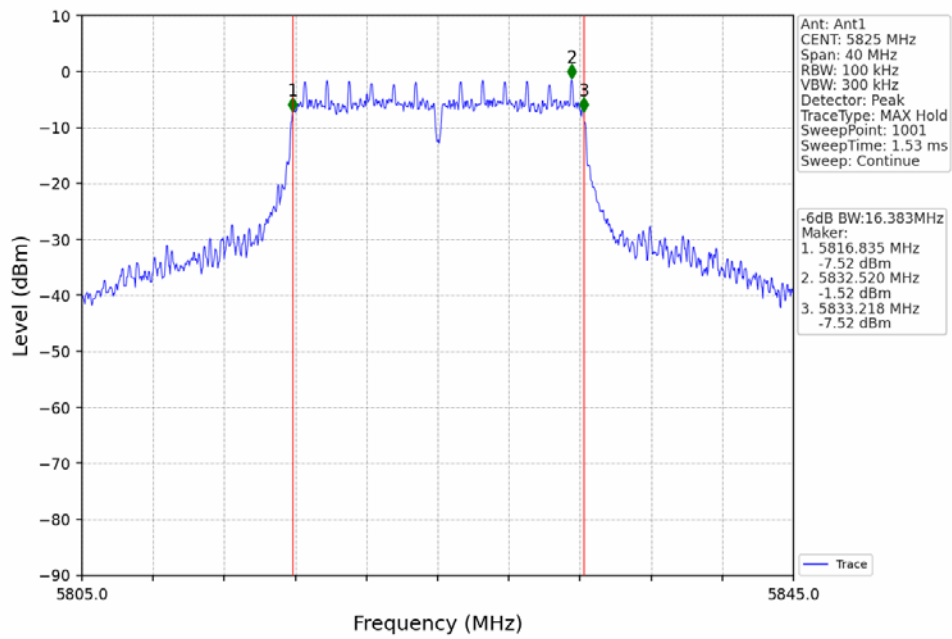
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.364	≥ 0.5	Pass
		5785	1	16.385	≥ 0.5	Pass
		5825	1	16.383	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.216	≥ 0.5	Pass
		5785	1	17.147	≥ 0.5	Pass
		5825	1	17.149	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.562	≥ 0.5	Pass
		5795	1	35.709	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.028	≥ 0.5	Pass
		5785	1	17.150	≥ 0.5	Pass
		5825	1	17.278	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.229	≥ 0.5	Pass
		5795	1	35.323	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.426	≥ 0.5	Pass

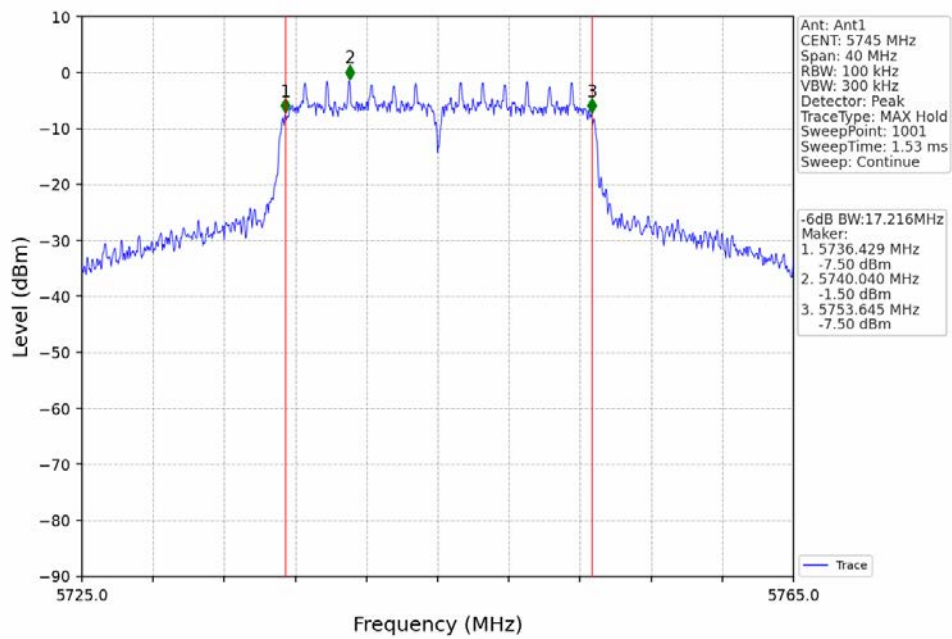
2.2.2 Test Graph



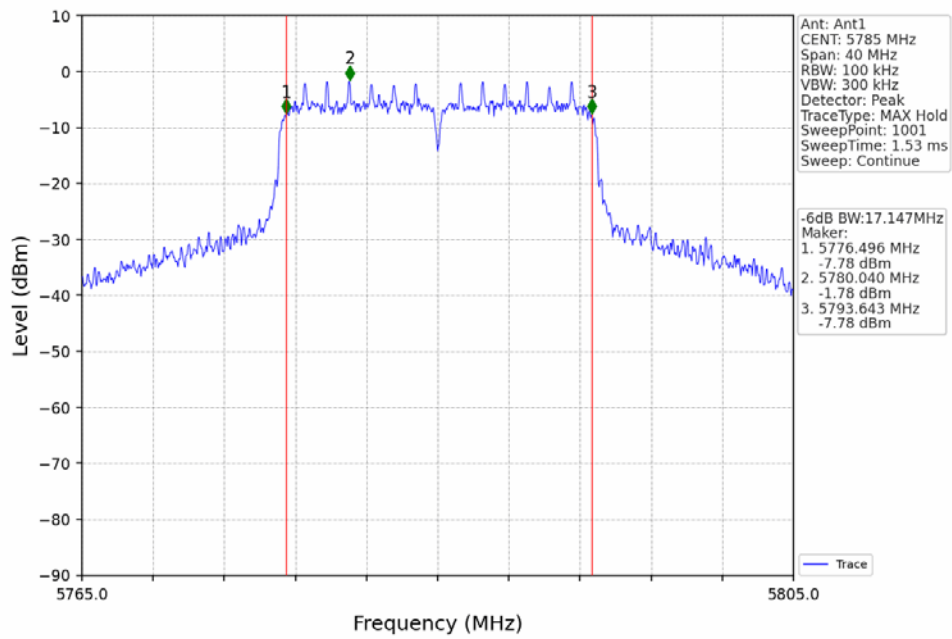
802.11a_HCH_5825MHz_Ant1_NTNV



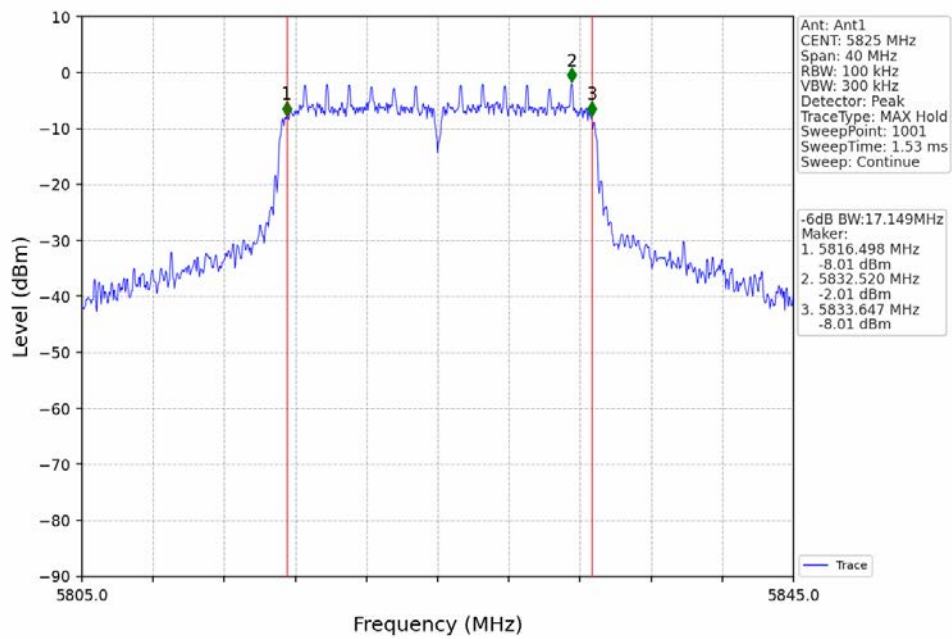
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



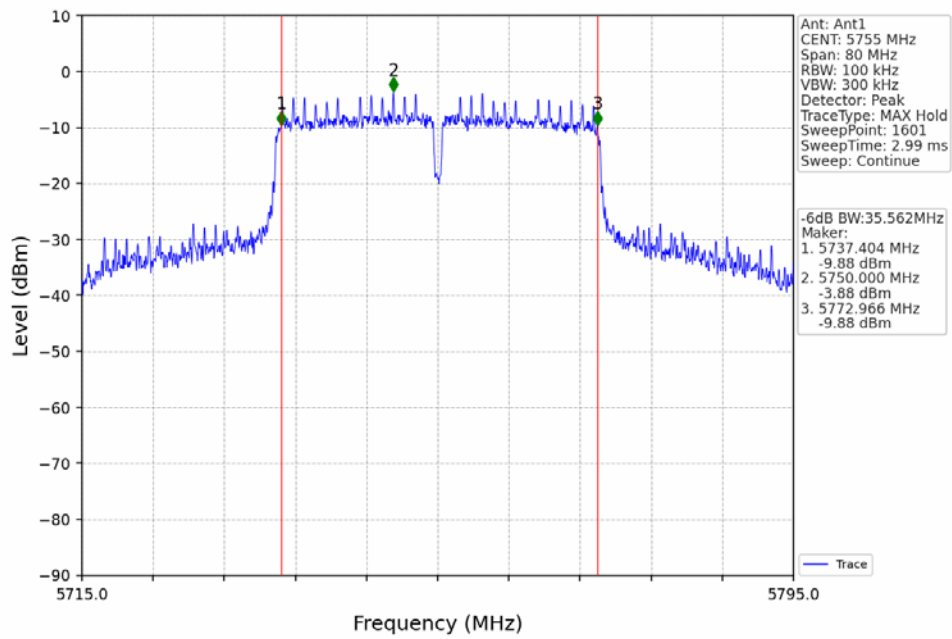
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



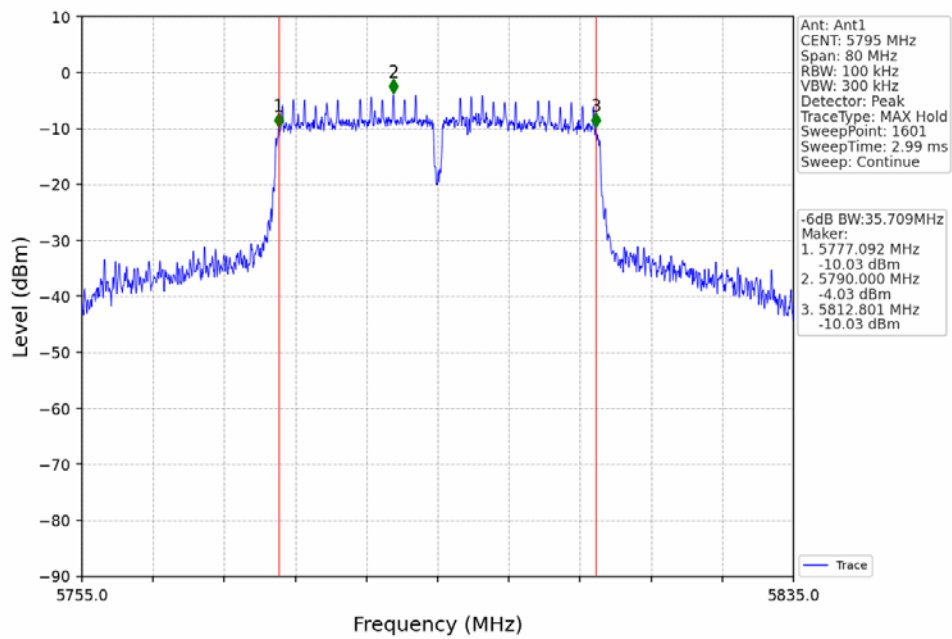
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



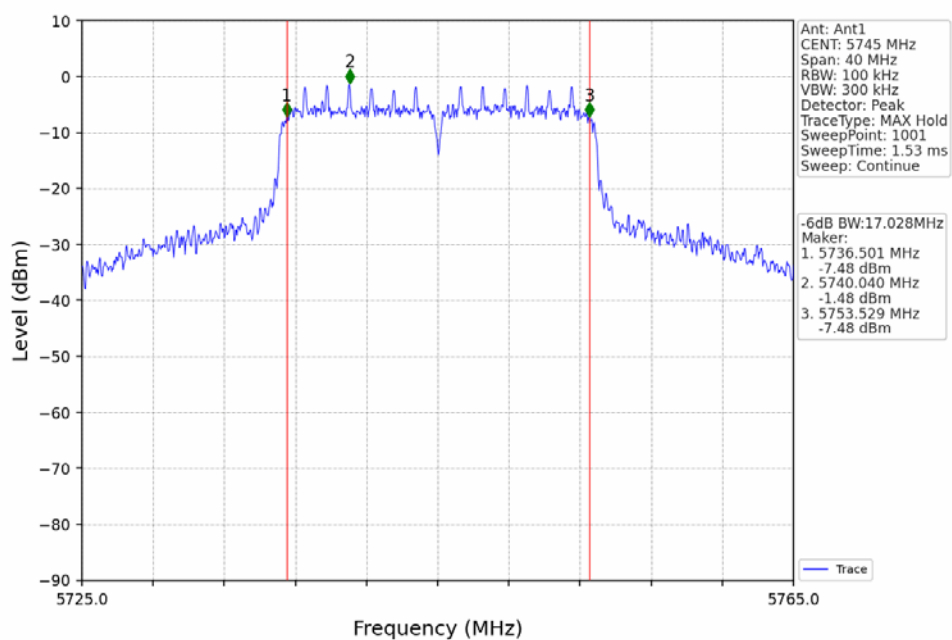
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



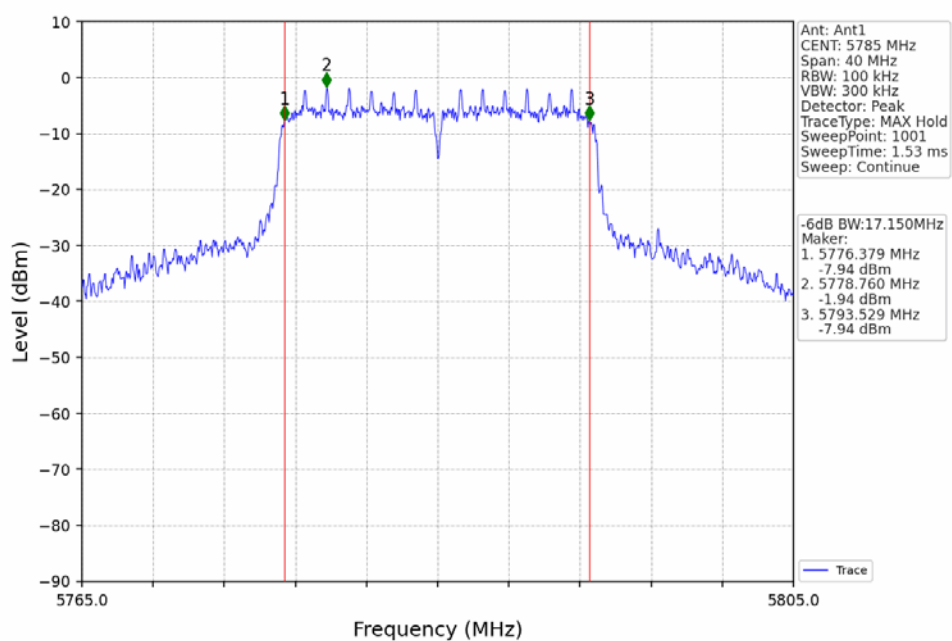
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



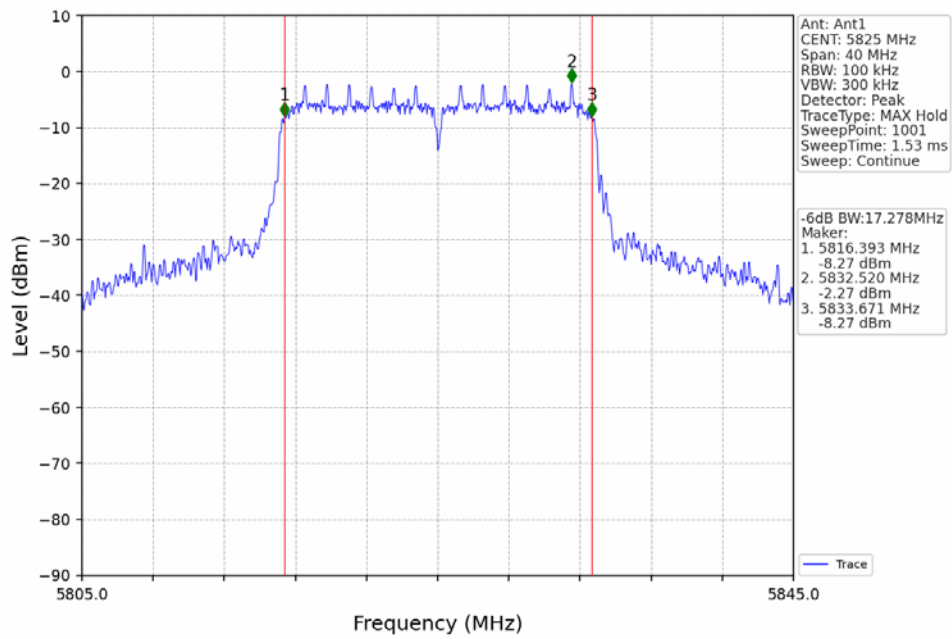
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



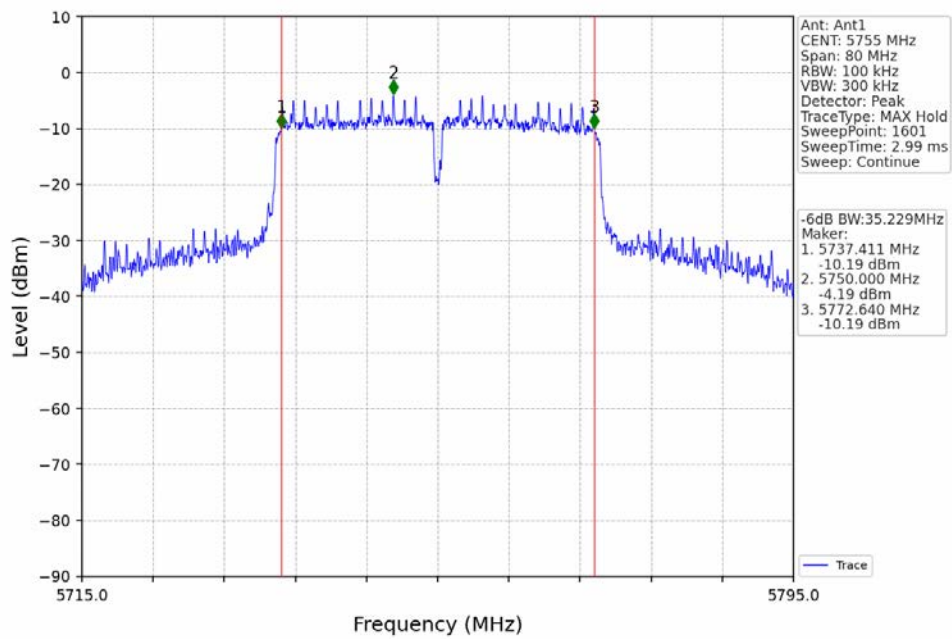
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



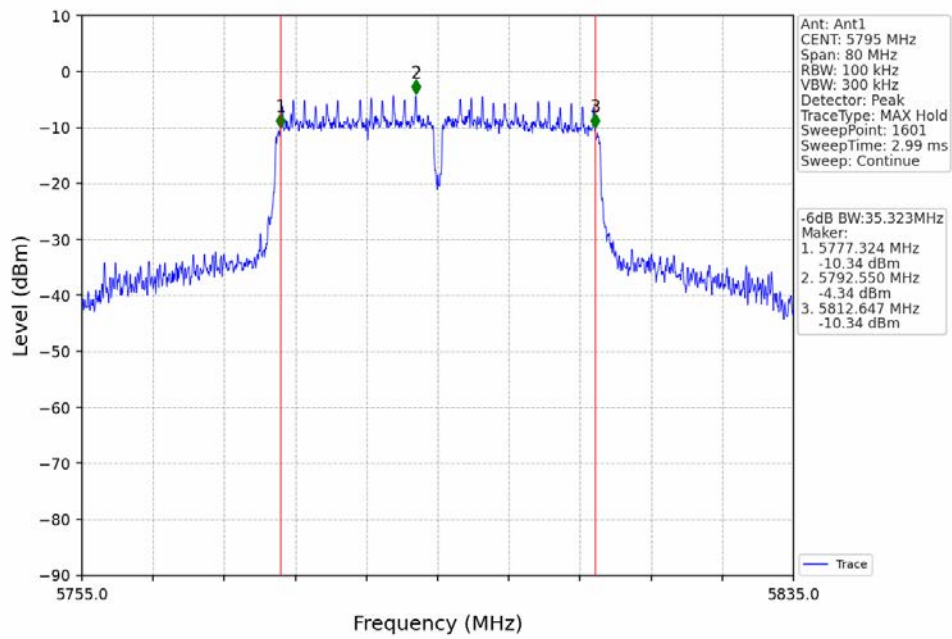
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



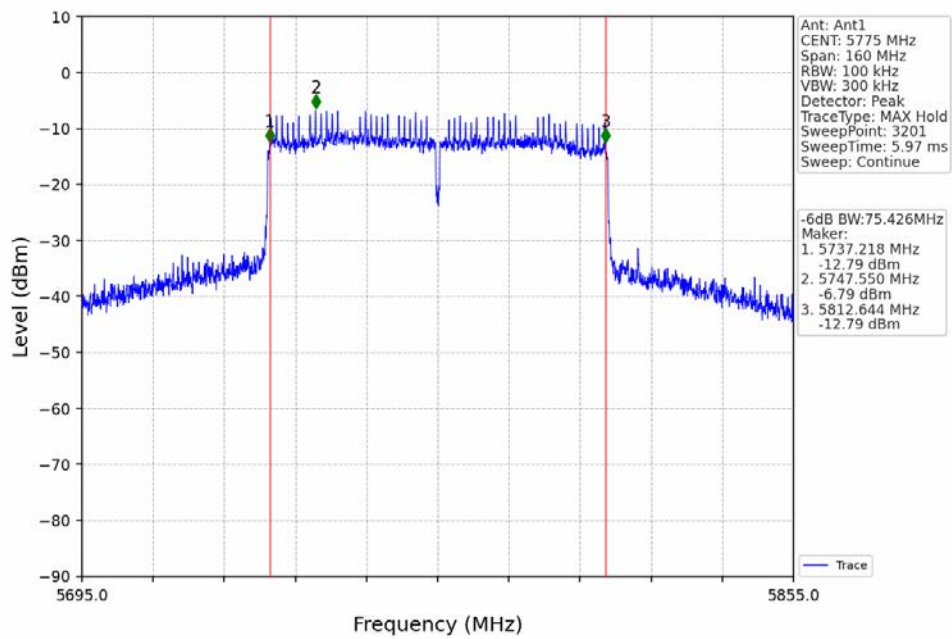
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	10.11	<=30	Pass
		5785	10.00	<=30	Pass
		5825	9.84	<=30	Pass
802.11n (HT20)	SISO	5745	9.66	<=30	Pass
		5785	9.61	<=30	Pass
		5825	9.36	<=30	Pass
802.11n (HT40)	SISO	5755	10.05	<=30	Pass
		5795	9.94	<=30	Pass
802.11ac (VHT20)	SISO	5745	9.65	<=30	Pass
		5785	9.47	<=30	Pass
		5825	9.07	<=30	Pass
802.11ac (VHT40)	SISO	5755	9.67	<=30	Pass
		5795	9.55	<=30	Pass
802.11ac (VHT80)	SISO	5775	9.79	<=30	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;

4. Maximum Power Spectral Density

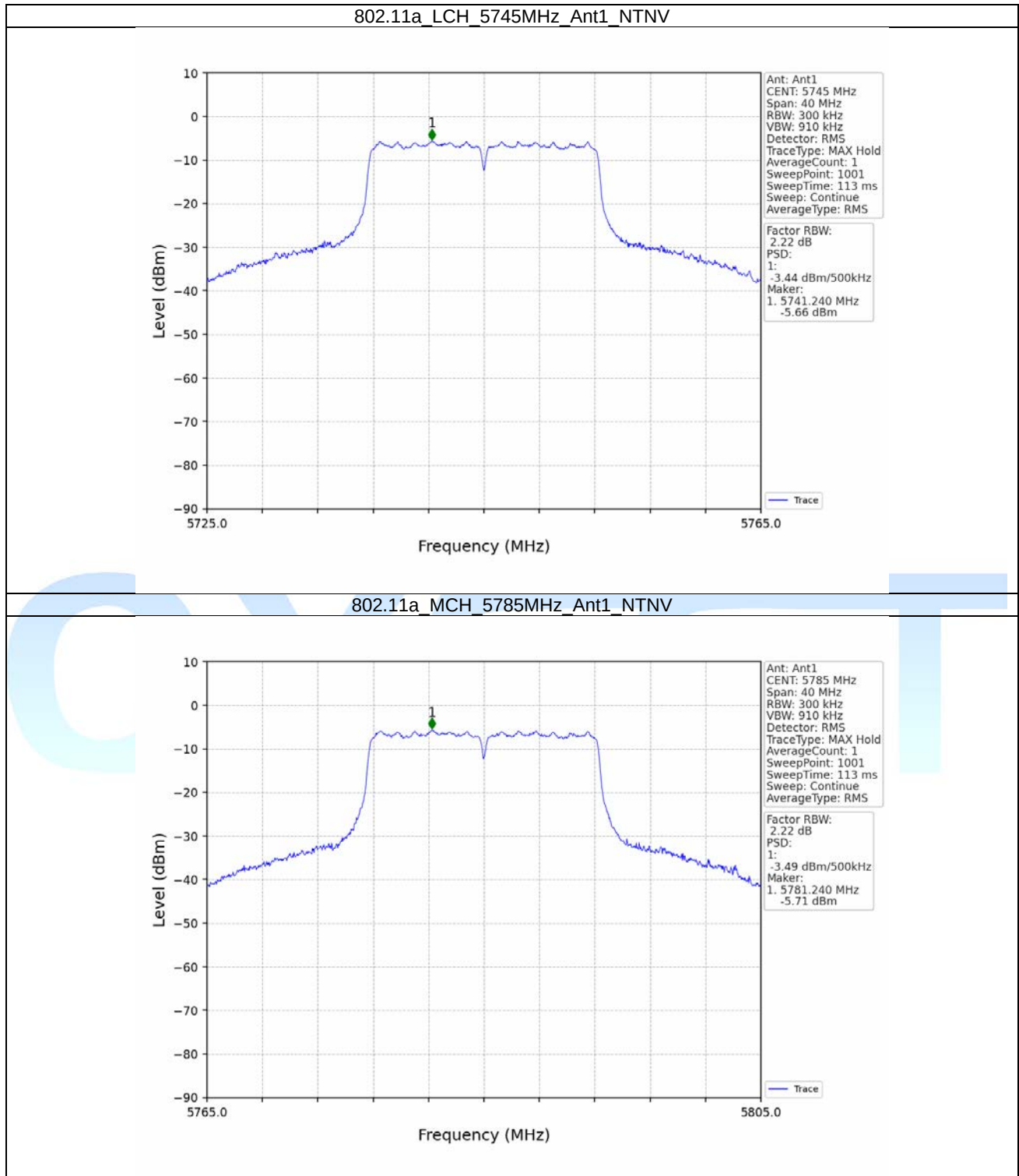
4.1 PSD-Band3

4.1.1 Test Result

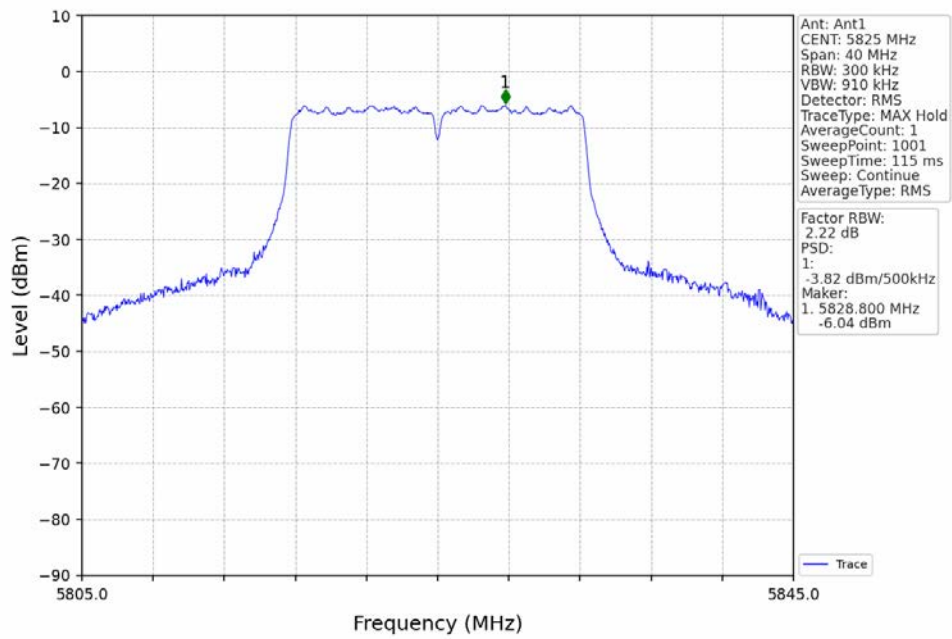
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-3.44	<=30	Pass
		5785	-3.49	<=30	Pass
		5825	-3.82	<=30	Pass
802.11n (HT20)	SISO	5745	-3.76	<=30	Pass
		5785	-3.73	<=30	Pass
		5825	-4.02	<=30	Pass
802.11n (HT40)	SISO	5755	-5.35	<=30	Pass
		5795	-5.35	<=30	Pass
802.11ac (VHT20)	SISO	5745	-3.78	<=30	Pass
		5785	-3.73	<=30	Pass
		5825	-4.35	<=30	Pass
802.11ac (VHT40)	SISO	5755	-6.09	<=30	Pass
		5795	-6.20	<=30	Pass
802.11ac (VHT80)	SISO	5775	-4.48	<=30	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;
Note2: Test result contains DCCF and RBW Factor
RBW Factor = $10 * \log(500\text{kHz}/300\text{kHz}) = 2.22$

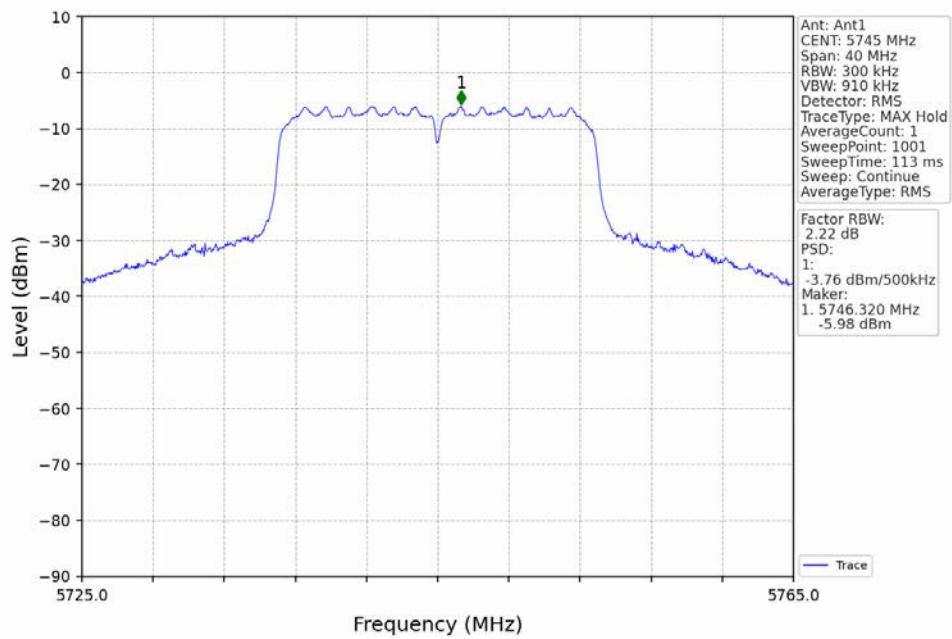
4.1.2 Test Graph



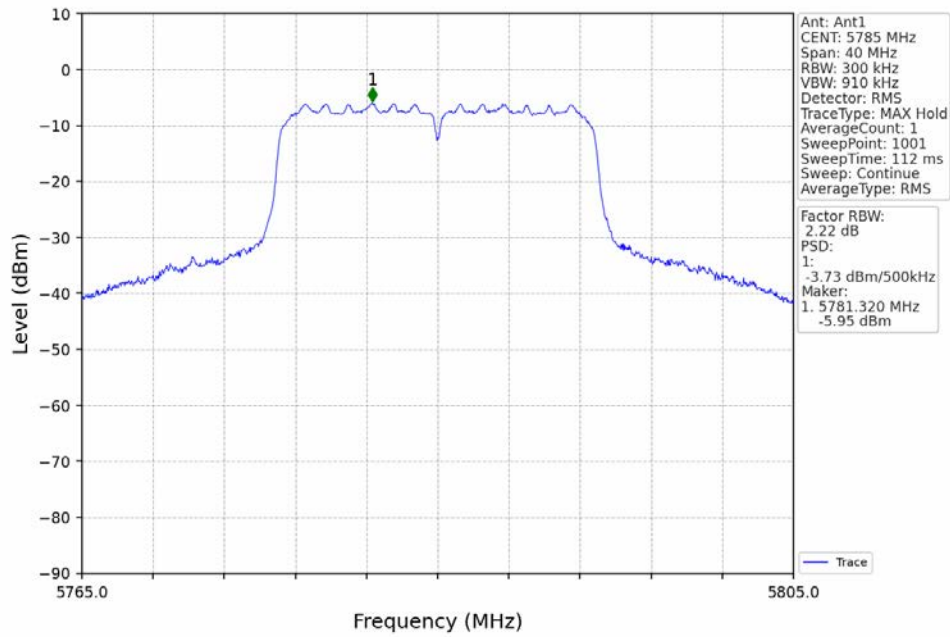
802.11a_HCH_5825MHz_Ant1_NTNV



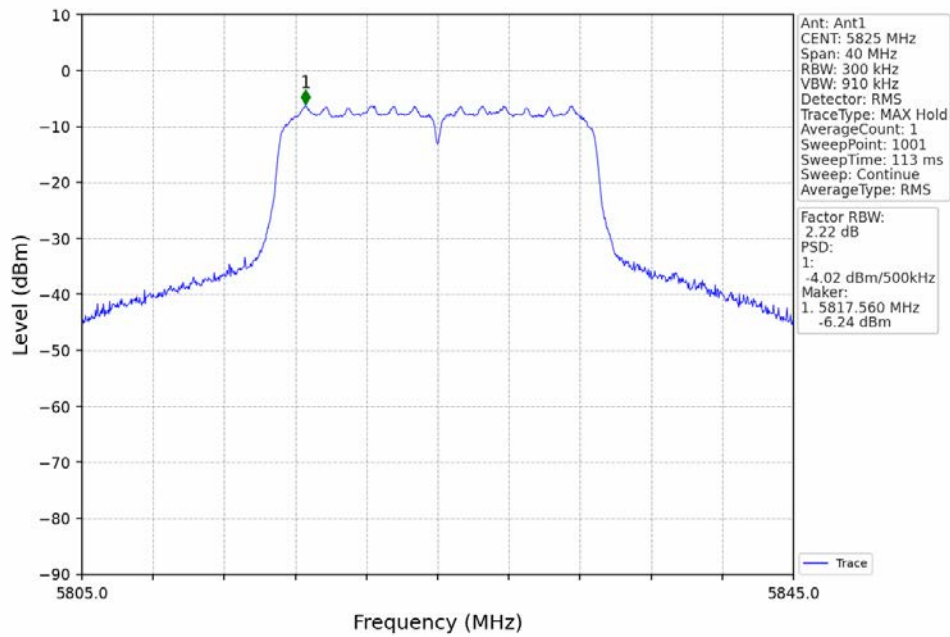
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



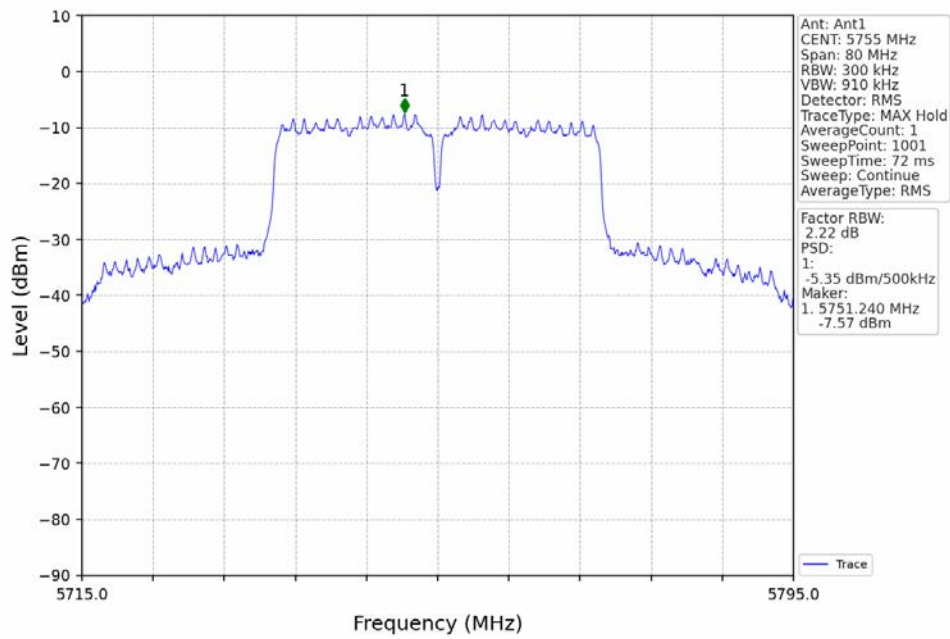
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



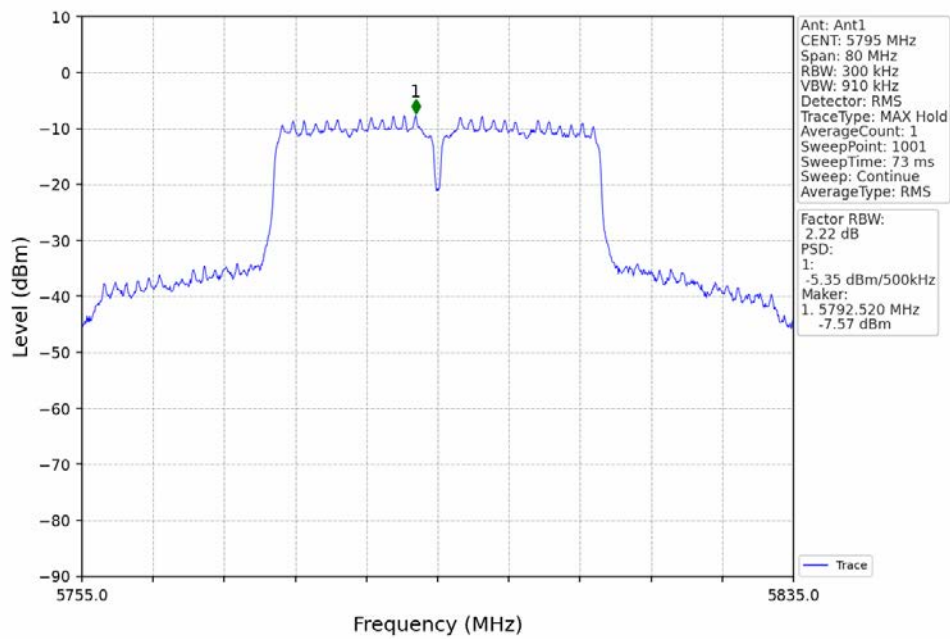
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



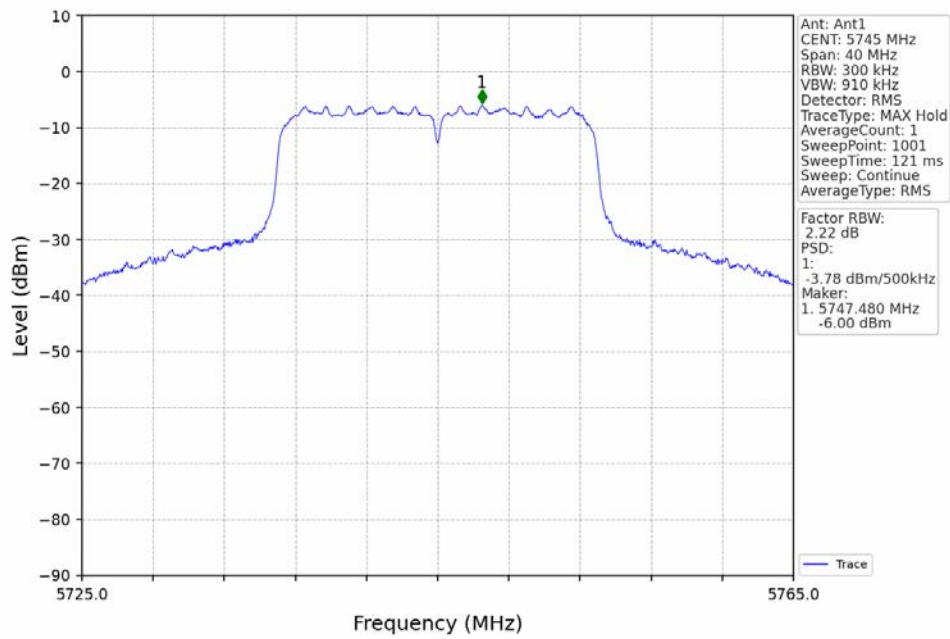
802.11n(HT40) LCH 5755MHz_Ant1_NTNV



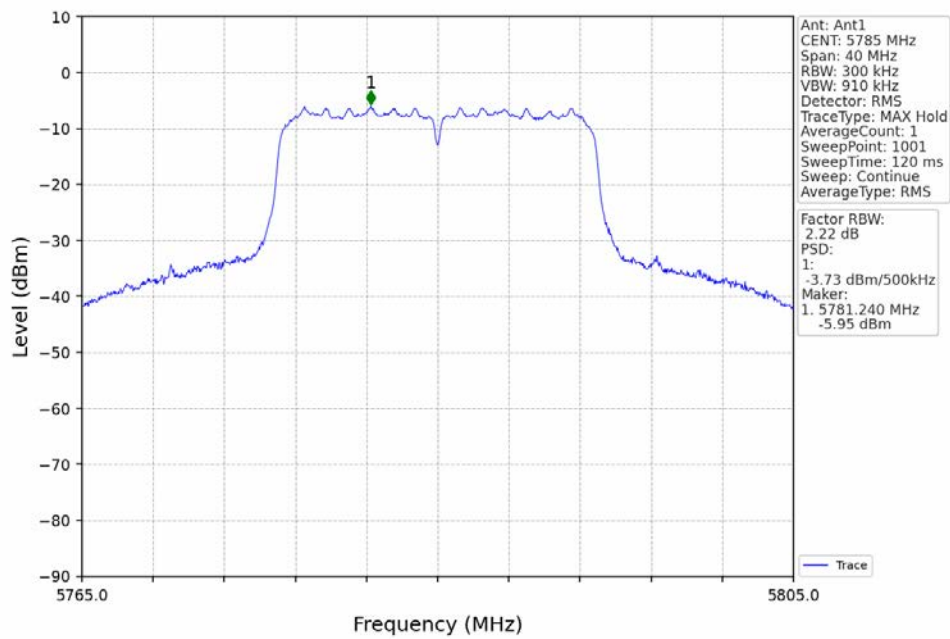
802.11n(HT40) HCH 5795MHz_Ant1_NTNV



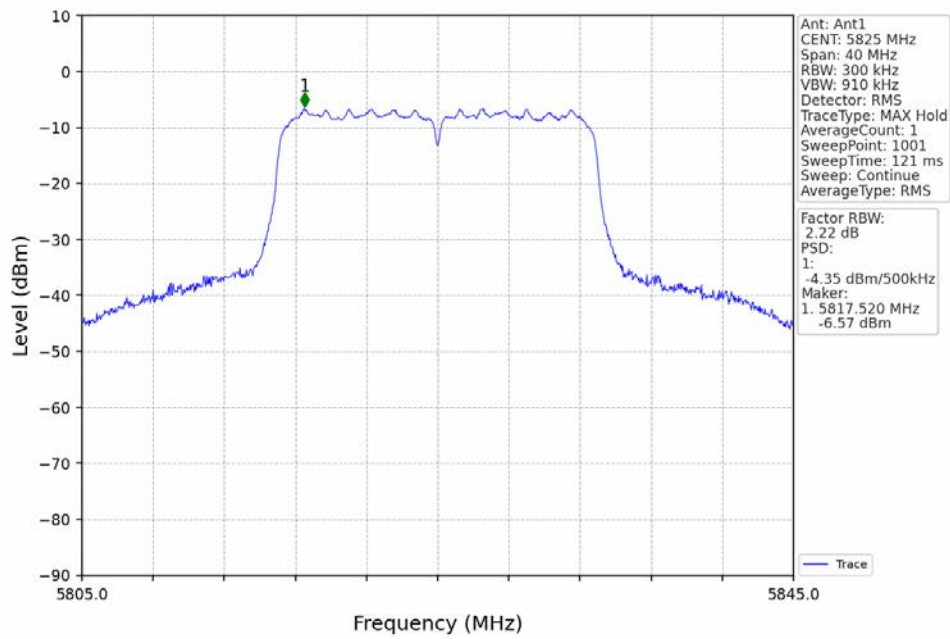
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



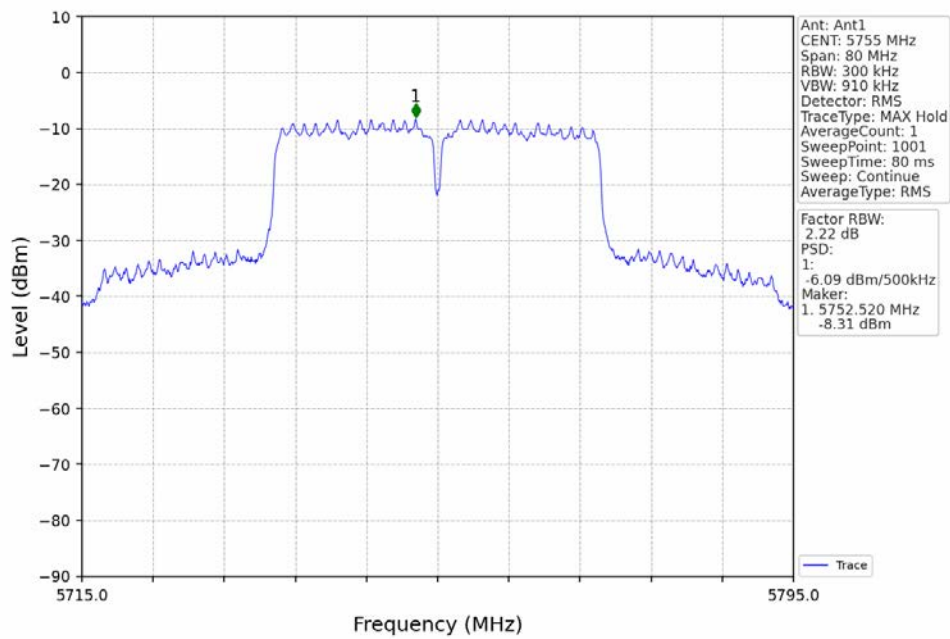
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



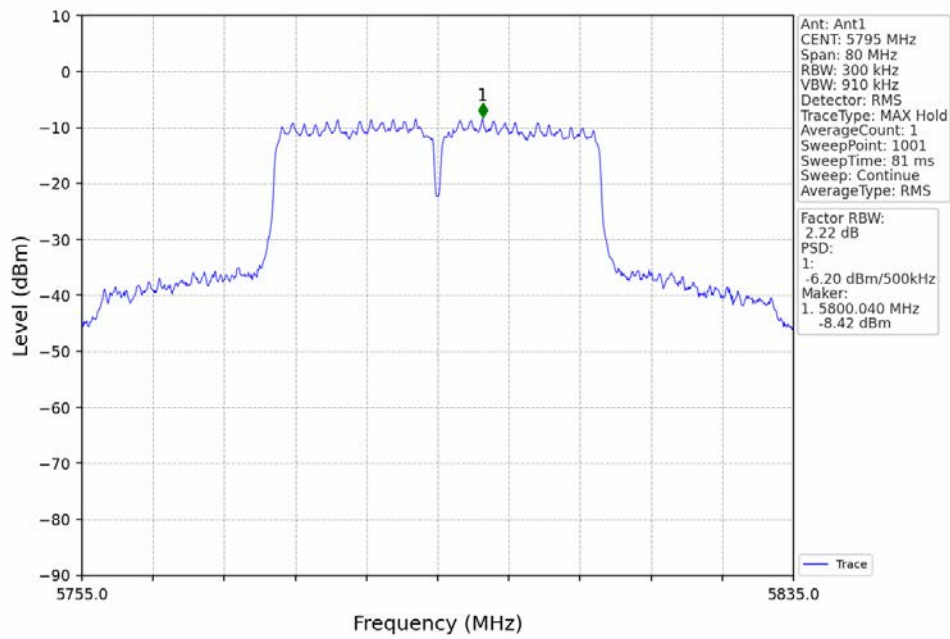
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



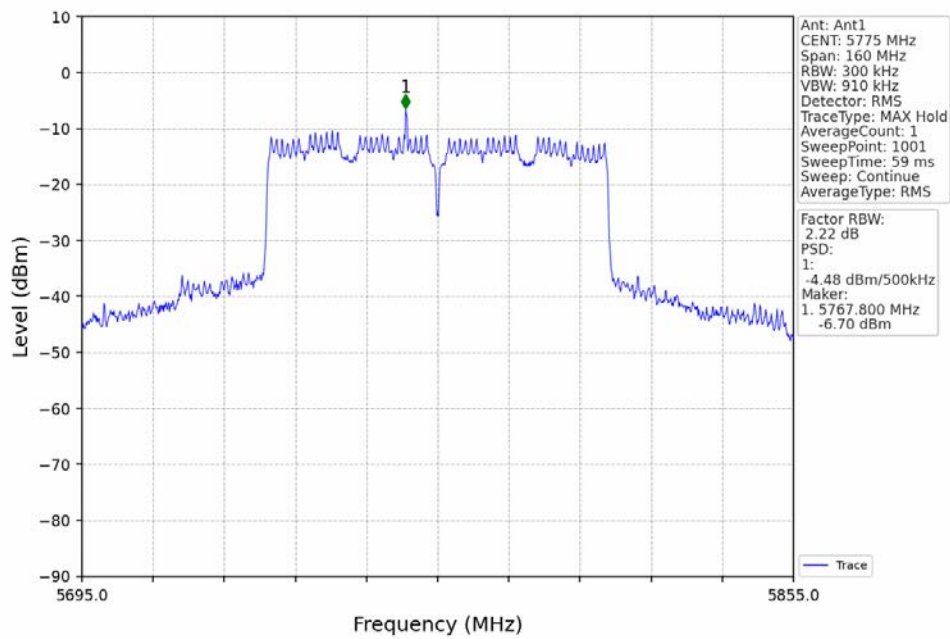
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5745	20	102	5744.998	5725 to 5850	Pass
				120	5744.998	5725 to 5850	Pass
				138	5744.998	5725 to 5850	Pass
			-30	120	5744.998	5725 to 5850	Pass
			-20	120	5744.998	5725 to 5850	Pass
			-10	120	5744.998	5725 to 5850	Pass
			0	120	5744.998	5725 to 5850	Pass
			10	120	5744.998	5725 to 5850	Pass
			30	120	5744.998	5725 to 5850	Pass
			40	120	5744.998	5725 to 5850	Pass
			50	120	5744.998	5725 to 5850	Pass
		5785	20	102	5784.998	5725 to 5850	Pass
				120	5784.998	5725 to 5850	Pass
				138	5784.998	5725 to 5850	Pass
			-30	120	5784.998	5725 to 5850	Pass
			-20	120	5784.530	5725 to 5850	Pass
			-10	120	5785.077	5725 to 5850	Pass
			0	120	5785.398	5725 to 5850	Pass
			10	120	5784.933	5725 to 5850	Pass
			30	120	5784.738	5725 to 5850	Pass
			40	120	5784.998	5725 to 5850	Pass
			50	120	5784.807	5725 to 5850	Pass
		5825	20	102	5824.569	5725 to 5850	Pass
				120	5825.348	5725 to 5850	Pass
				138	5825.317	5725 to 5850	Pass
			-30	120	5825.033	5725 to 5850	Pass
			-20	120	5825.369	5725 to 5850	Pass
			-10	120	5825.240	5725 to 5850	Pass
			0	120	5825.221	5725 to 5850	Pass
			10	120	5824.719	5725 to 5850	Pass
			30	120	5825.171	5725 to 5850	Pass
			40	120	5825.058	5725 to 5850	Pass
			50	120	5825.458	5725 to 5850	Pass
		5755	20	102	5755.013	5725 to 5850	Pass
				120	5755.366	5725 to 5850	Pass
				138	5754.929	5725 to 5850	Pass
			-30	120	5755.256	5725 to 5850	Pass
			-20	120	5754.970	5725 to 5850	Pass
			-10	120	5754.883	5725 to 5850	Pass
			0	120	5755.356	5725 to 5850	Pass
			10	120	5754.969	5725 to 5850	Pass
			30	120	5755.159	5725 to 5850	Pass
			40	120	5754.698	5725 to 5850	Pass
			50	120	5755.053	5725 to 5850	Pass
		5795	20	102	5794.920	5725 to 5850	Pass
				120	5794.547	5725 to 5850	Pass
				138	5794.797	5725 to 5850	Pass

			-30	120	5795.008	5725 to 5850	Pass
			-20	120	5795.021	5725 to 5850	Pass
			-10	120	5795.092	5725 to 5850	Pass
			0	120	5795.188	5725 to 5850	Pass
			10	120	5794.588	5725 to 5850	Pass
			30	120	5795.485	5725 to 5850	Pass
			40	120	5795.059	5725 to 5850	Pass
			50	120	5794.992	5725 to 5850	Pass
		5775	20	102	5774.968	5725 to 5850	Pass
				120	5774.694	5725 to 5850	Pass
				138	5774.614	5725 to 5850	Pass
			-30	120	5774.534	5725 to 5850	Pass
			-20	120	5775.172	5725 to 5850	Pass
			-10	120	5774.710	5725 to 5850	Pass
			0	120	5774.979	5725 to 5850	Pass
			10	120	5775.460	5725 to 5850	Pass
			30	120	5775.272	5725 to 5850	Pass
			40	120	5774.552	5725 to 5850	Pass
			50	120	5774.671	5725 to 5850	Pass

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