

1. Bandwidth

1.1 Test Result

1.1.1 OBW

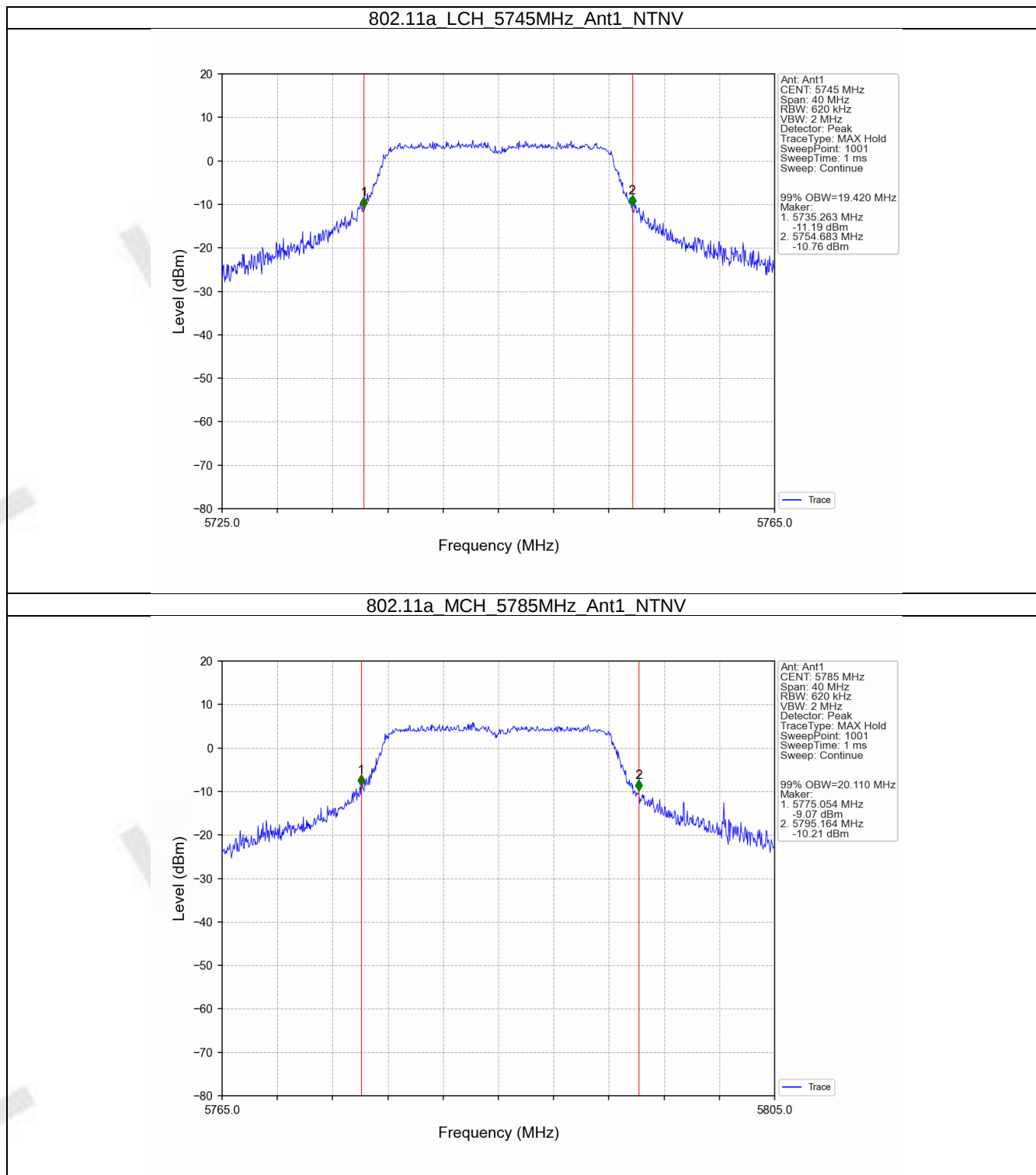
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	19.420	/	Pass
		5785	1	20.110	/	Pass
		5825	1	20.555	/	Pass
802.11n (HT20)	SISO	5745	1	20.498	/	Pass
		5785	1	20.658	/	Pass
		5825	1	20.642	/	Pass
802.11n (HT40)	SISO	5755	1	38.818	/	Pass
		5795	1	38.815	/	Pass
802.11ac (VHT20)	SISO	5745	1	20.127	/	Pass
		5785	1	20.783	/	Pass
		5825	1	21.099	/	Pass
802.11ac (VHT40)	SISO	5755	1	39.148	/	Pass
		5795	1	39.381	/	Pass

1.1.2 6dB BW

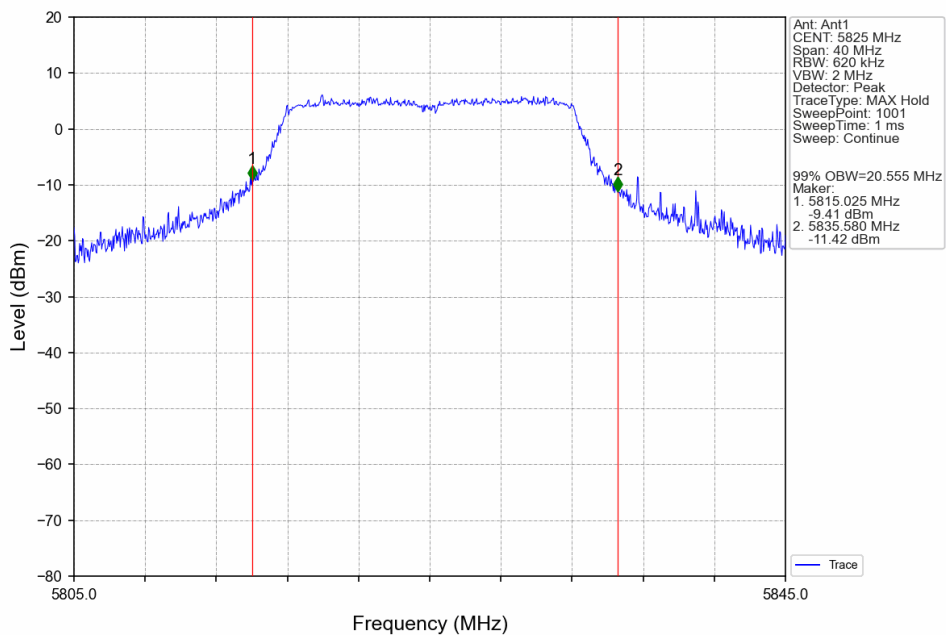
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.413	≥ 0.5	Pass
		5785	1	16.425	≥ 0.5	Pass
		5825	1	16.393	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.650	≥ 0.5	Pass
		5785	1	17.651	≥ 0.5	Pass
		5825	1	17.628	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.376	≥ 0.5	Pass
		5795	1	36.379	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.639	≥ 0.5	Pass
		5785	1	17.662	≥ 0.5	Pass
		5825	1	17.650	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.369	≥ 0.5	Pass
		5795	1	36.337	≥ 0.5	Pass

1.2 Test Graph

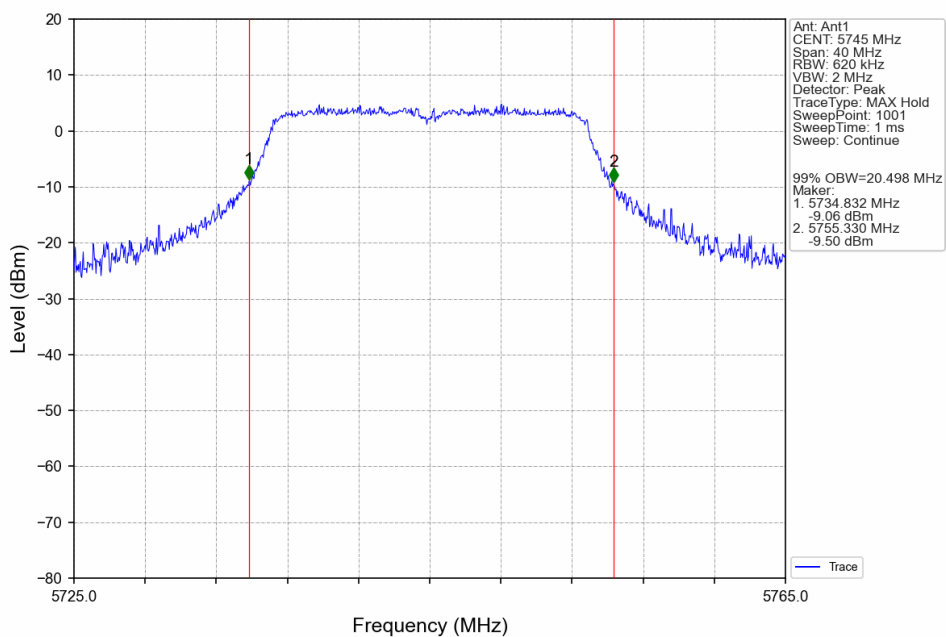
1.2.1 OBW



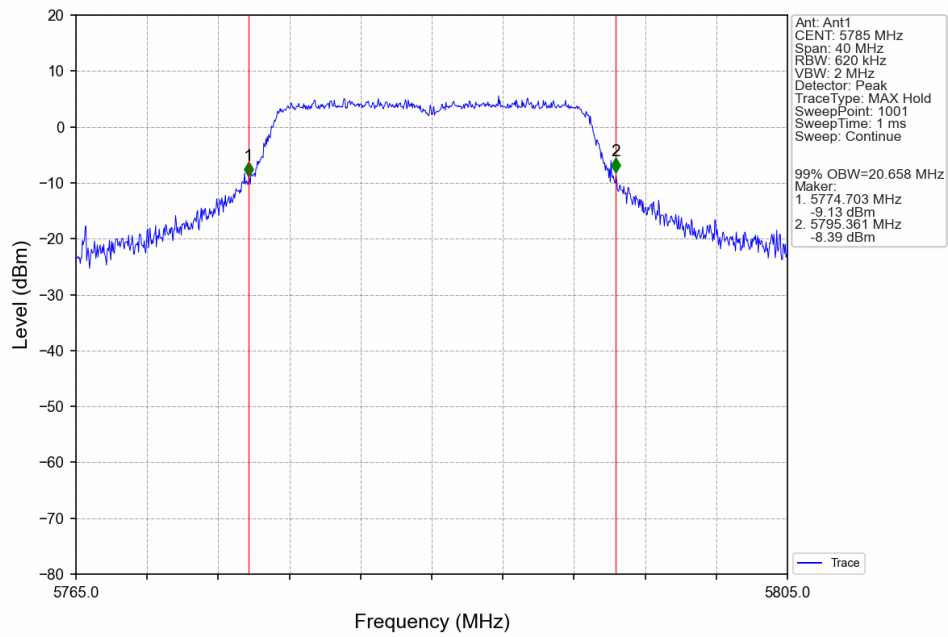
802.11a HCH 5825MHz Ant1 NTV



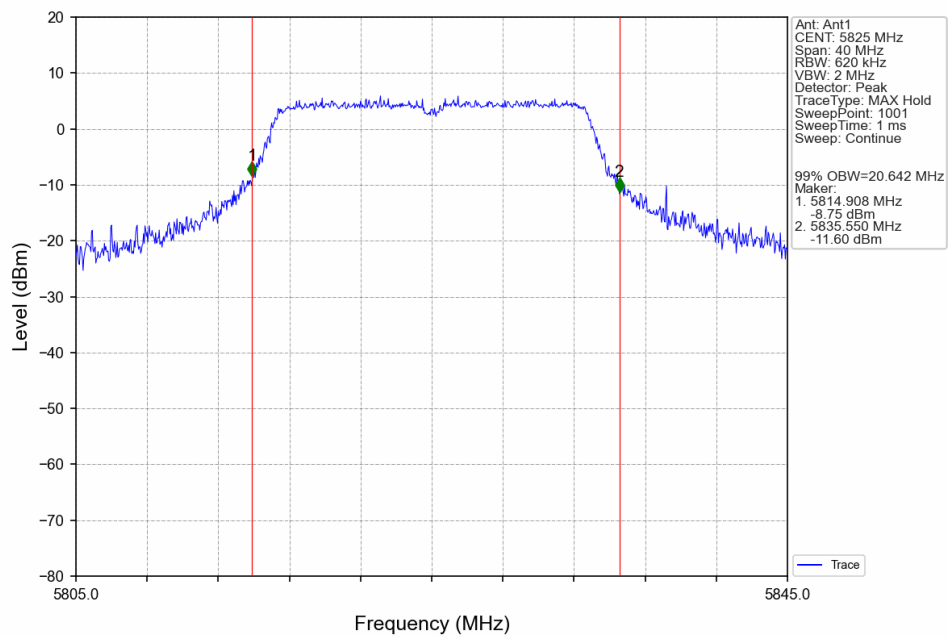
802.11n(HT20) LCH 5745MHz Ant1 NTV



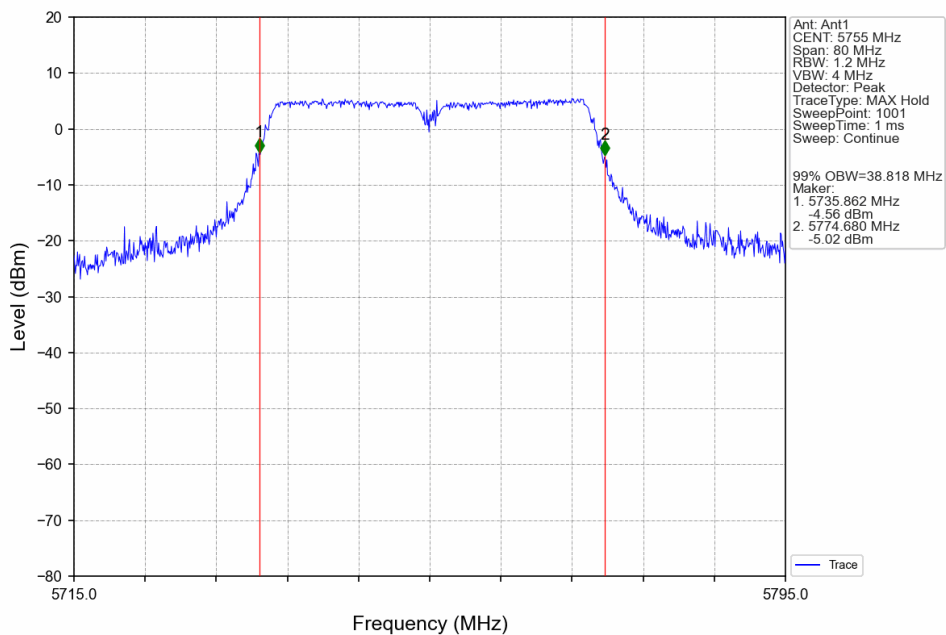
802.11n(HT20) MCH 5785MHz Ant1 NTN



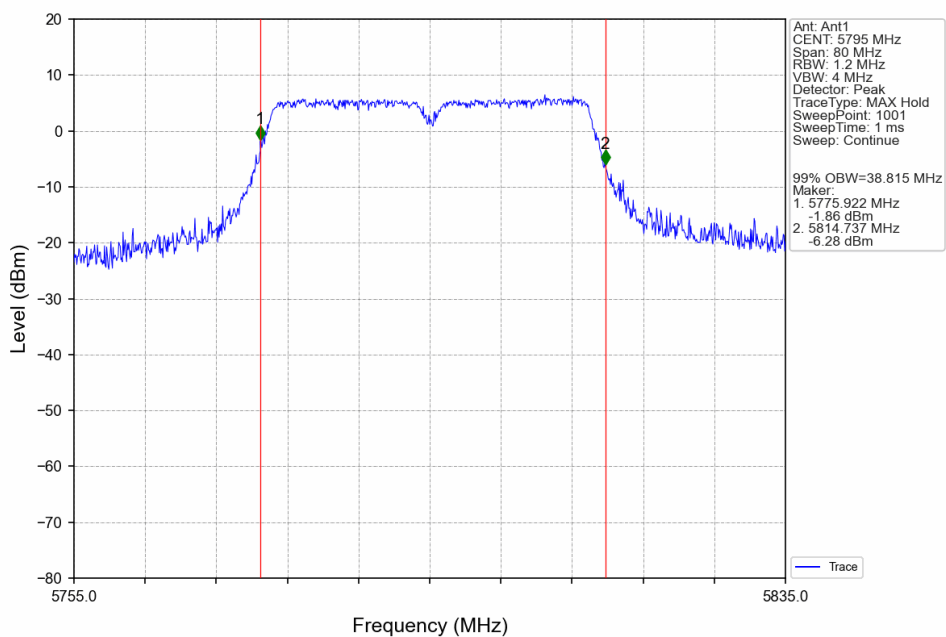
802.11n(HT20) HCH 5825MHz Ant1 NTN



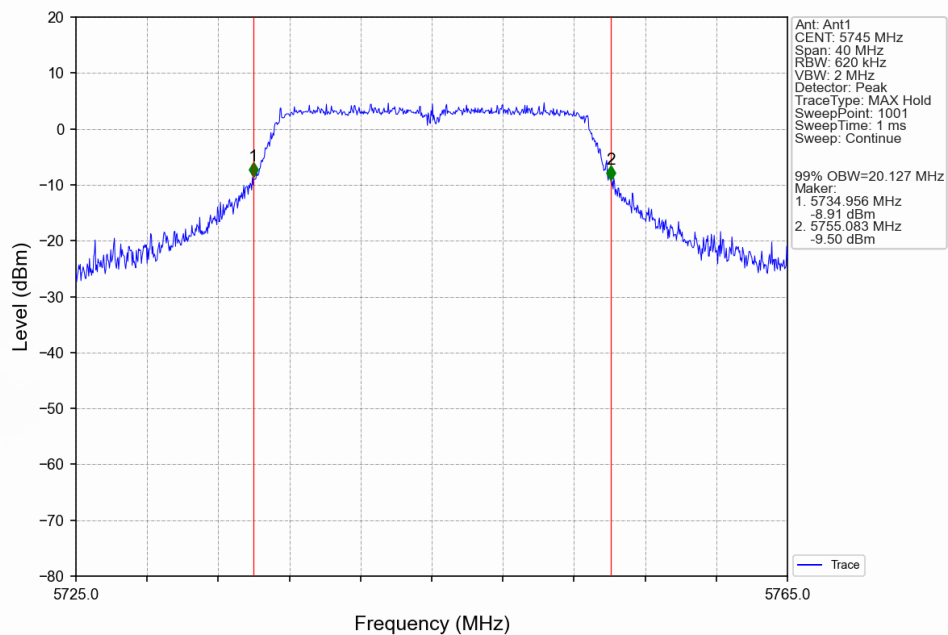
802.11n(HT40) LCH 5755MHz Ant1 NTVN



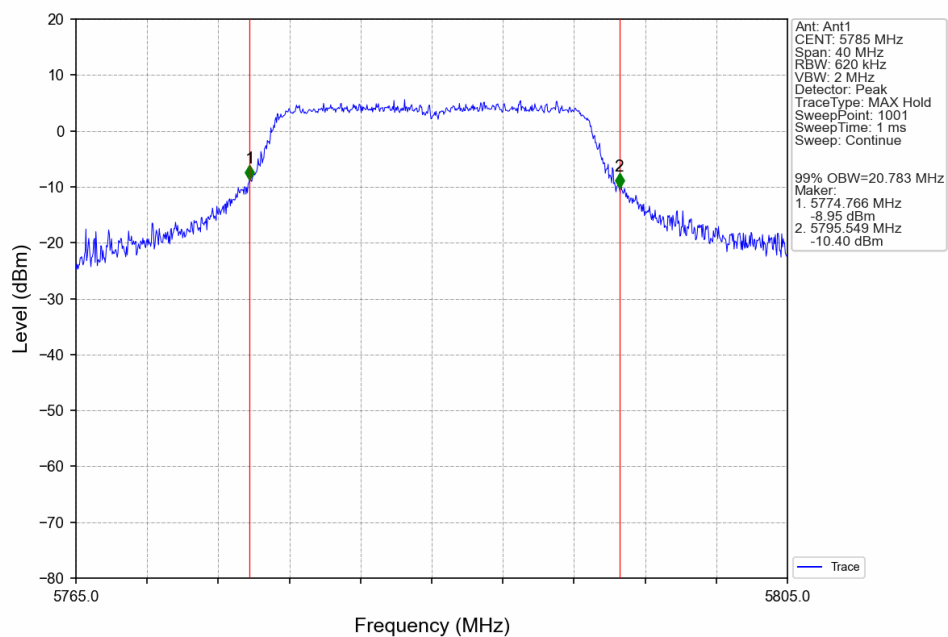
802.11n(HT40) HCH 5795MHz Ant1 NTVN



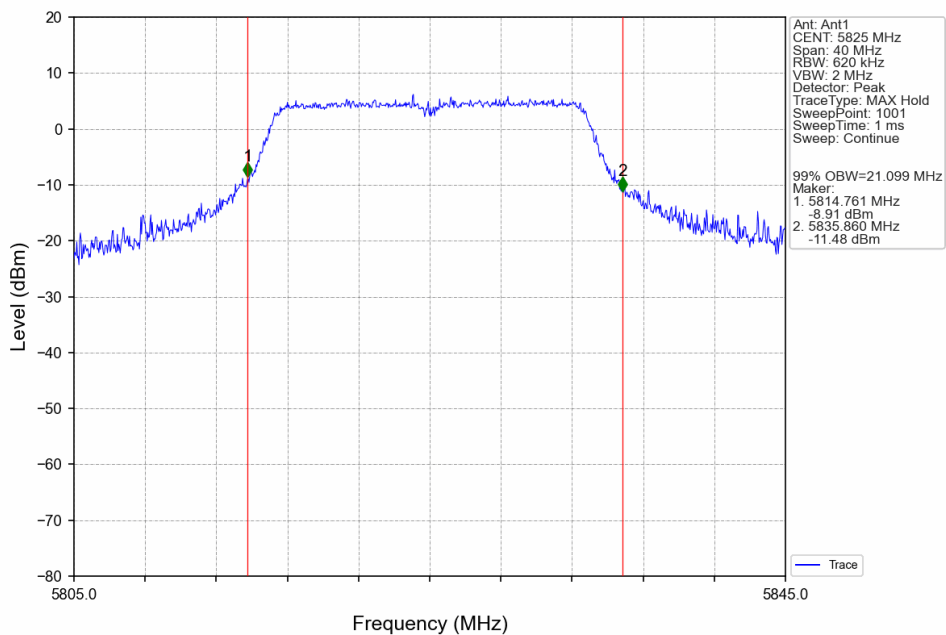
802.11ac(VHT20) LCH 5745MHz Ant1 NTNV



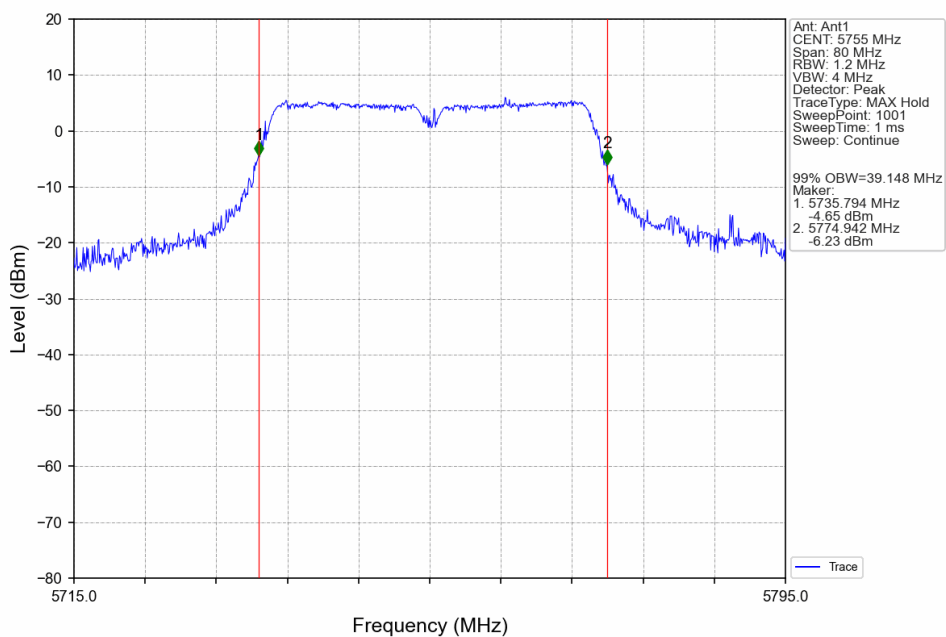
802.11ac(VHT20) MCH 5785MHz Ant1 NTNV

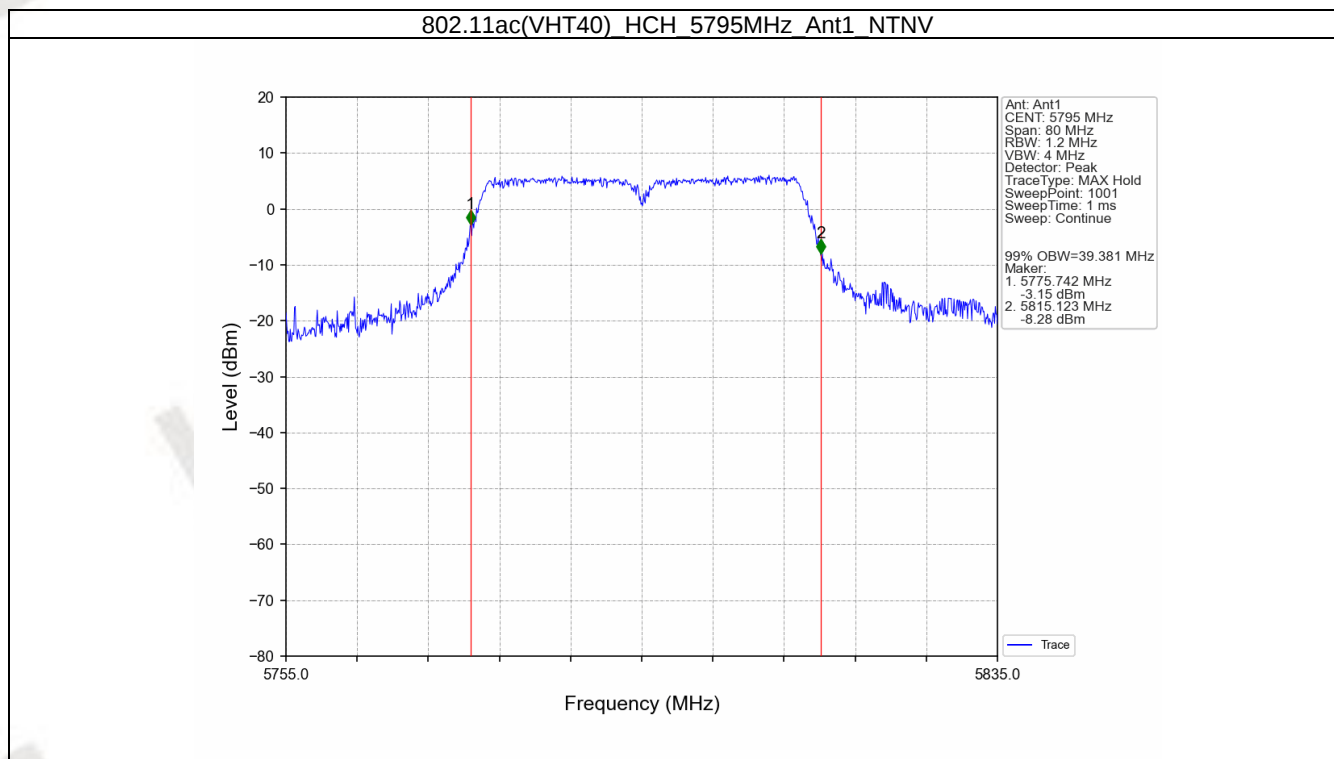


802.11ac(VHT20) HCH 5825MHz Ant1 NTN

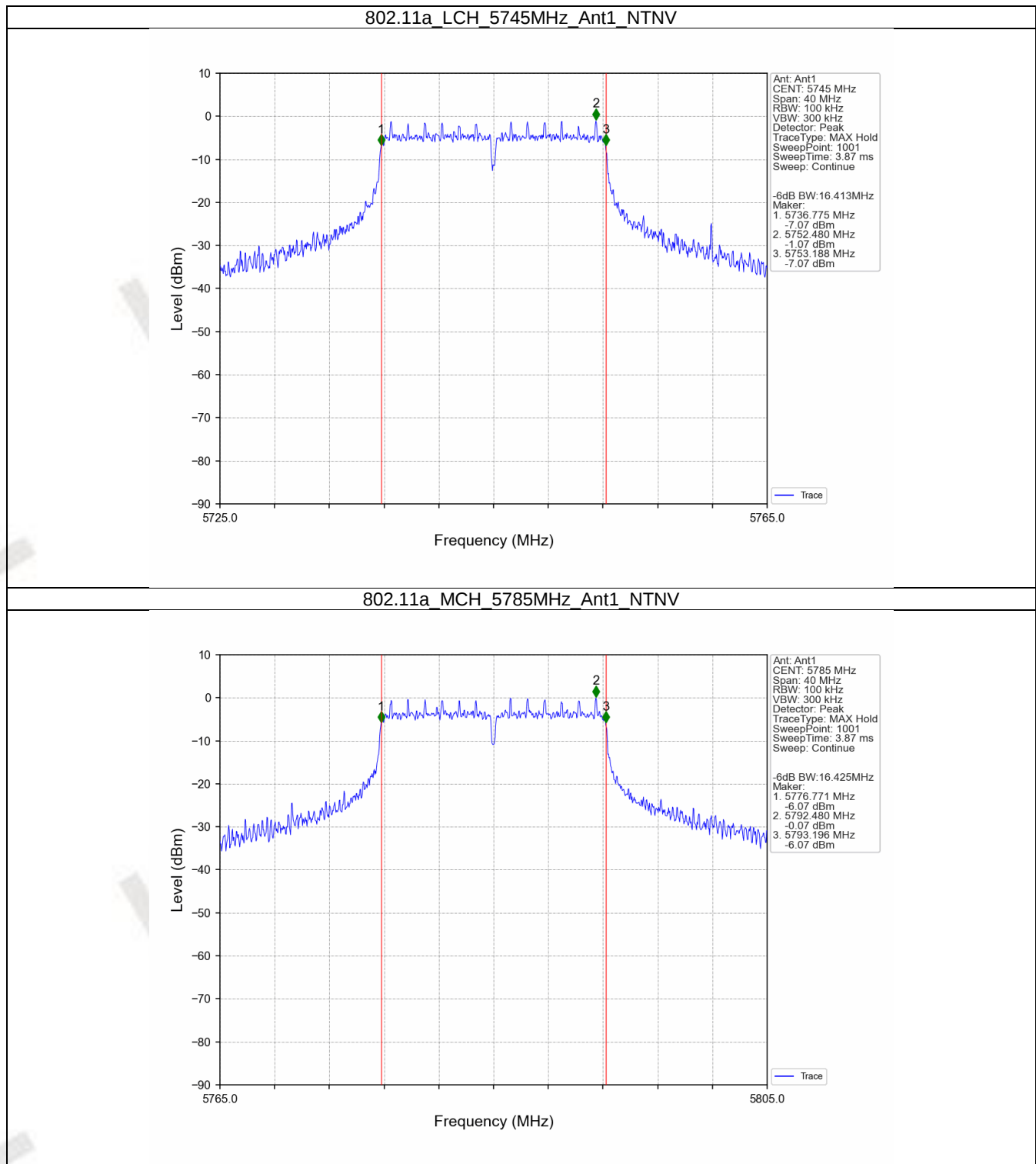


802.11ac(VHT40) LCH 5755MHz Ant1 NTN

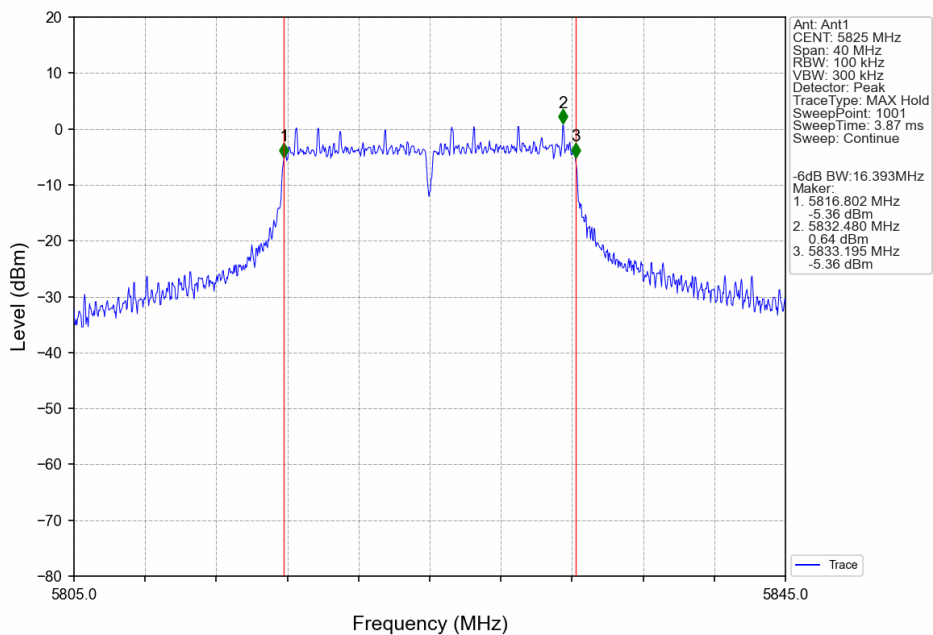




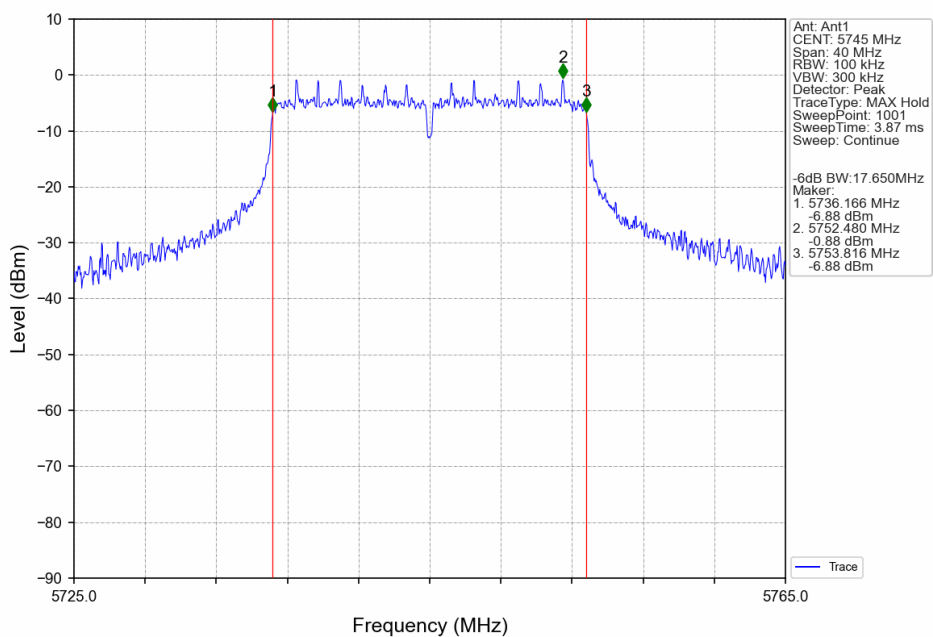
1.2.2 6dB BW



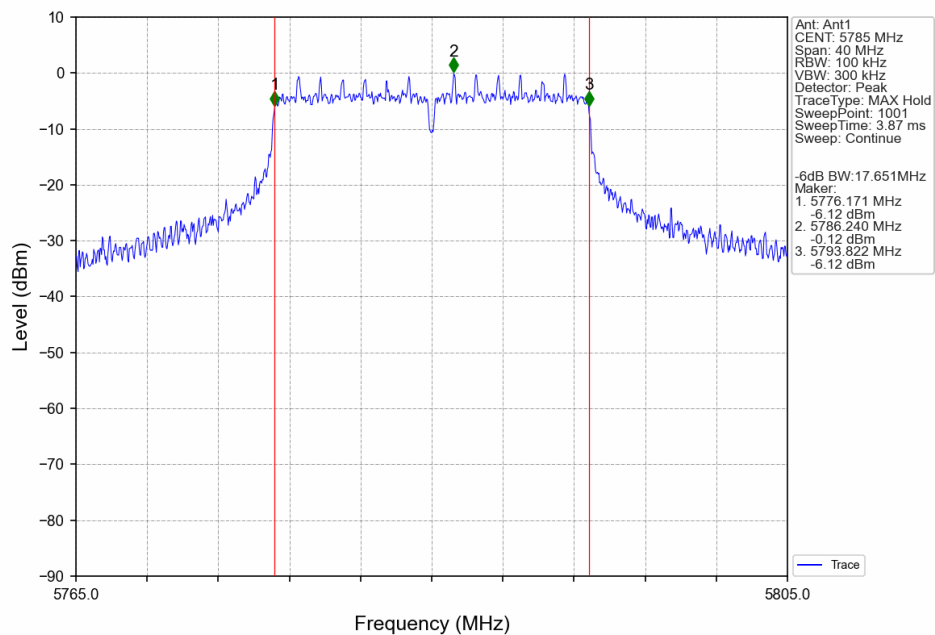
802.11a HCH 5825MHz Ant1 NTV



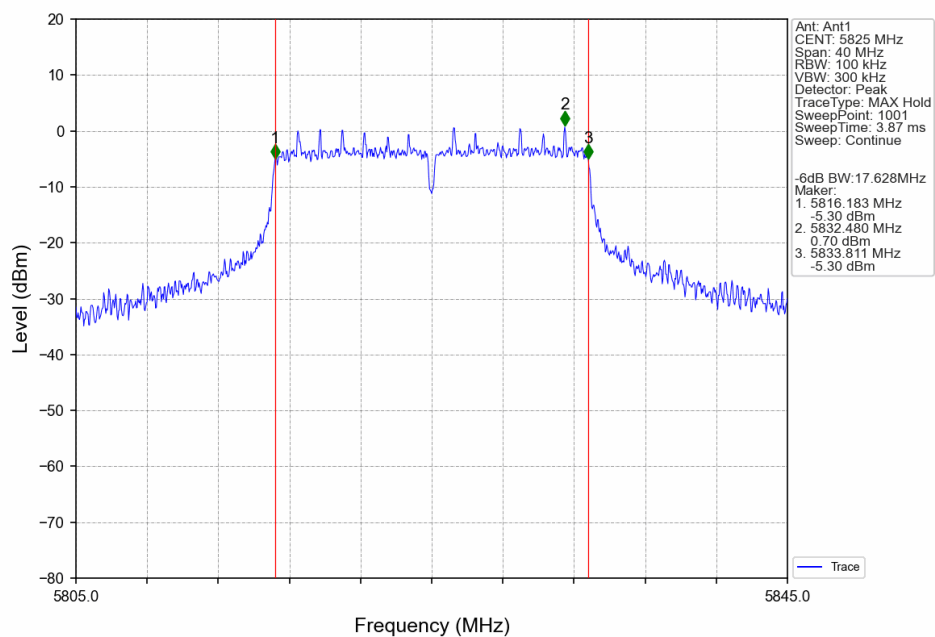
802.11n(HT20) LCH 5745MHz Ant1 NTV



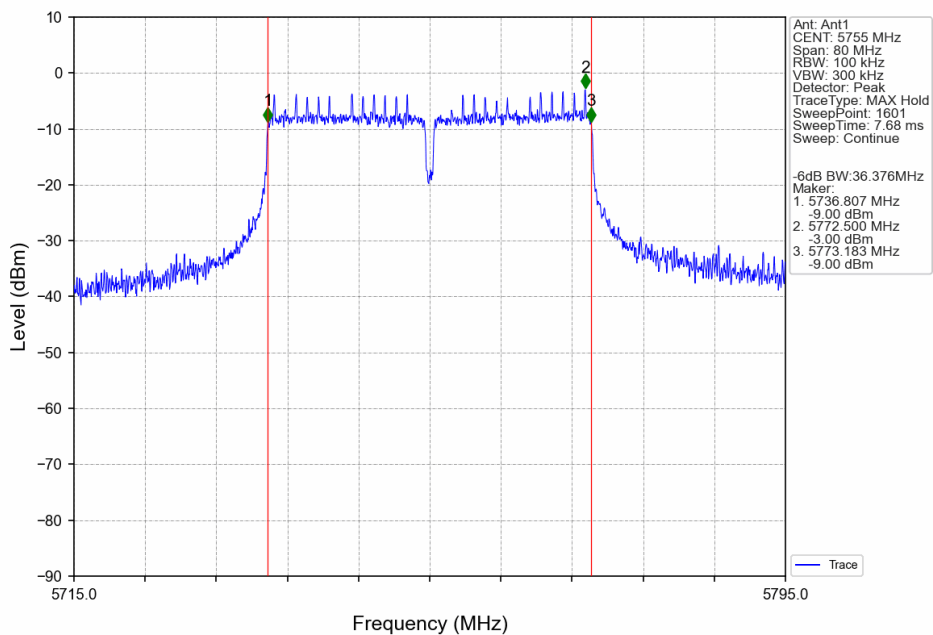
802.11n(HT20) MCH 5785MHz Ant1 NTV



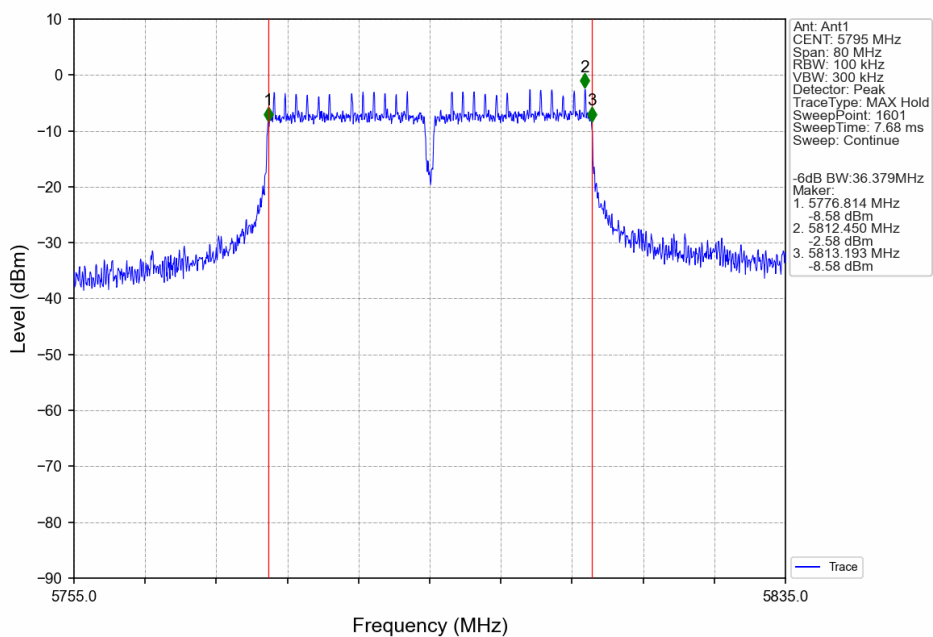
802.11n(HT20) HCH 5825MHz Ant1 NTV



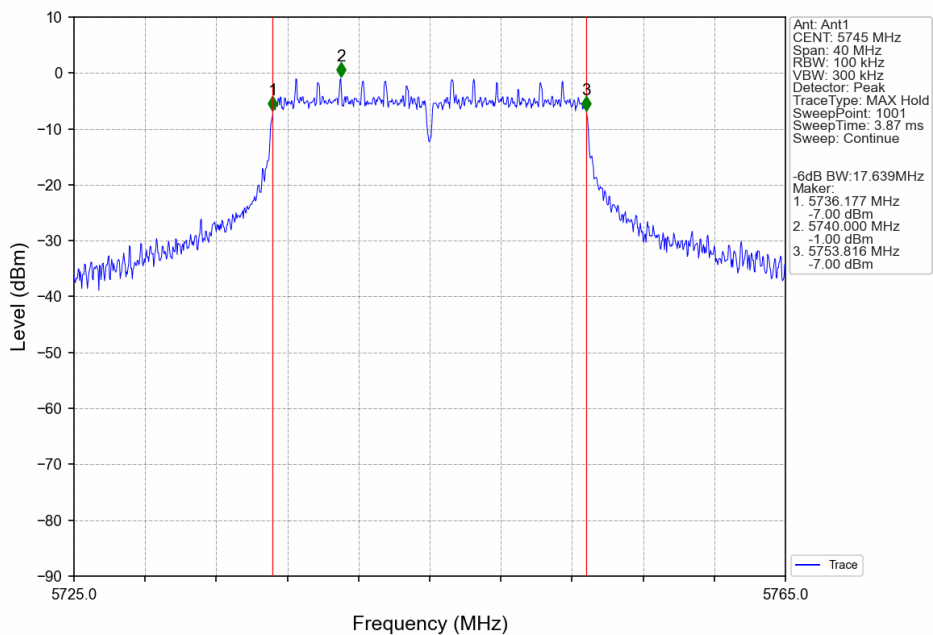
802.11n(HT40) LCH 5755MHz Ant1 NTV



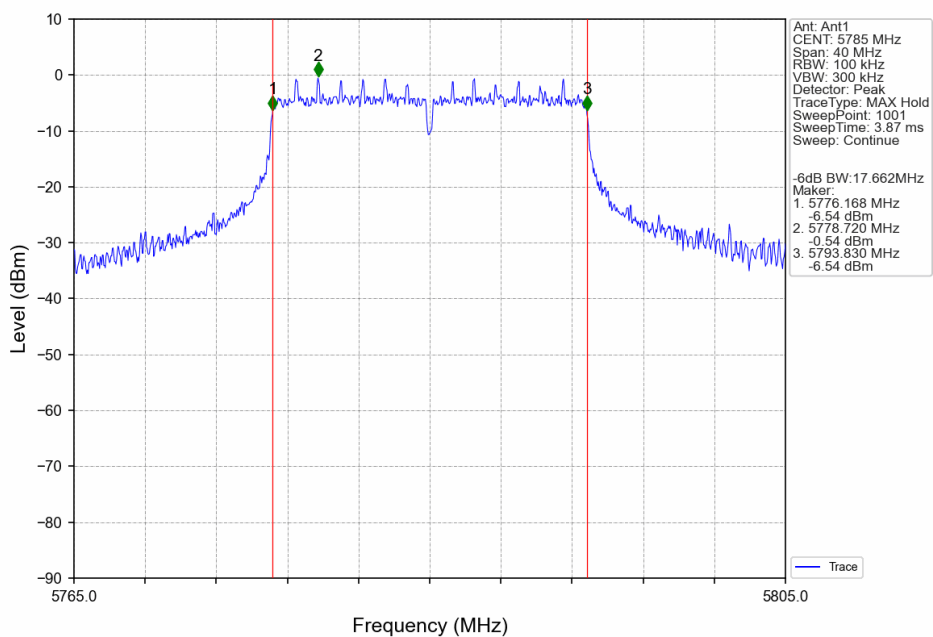
802.11n(HT40) HCH 5795MHz Ant1 NTV



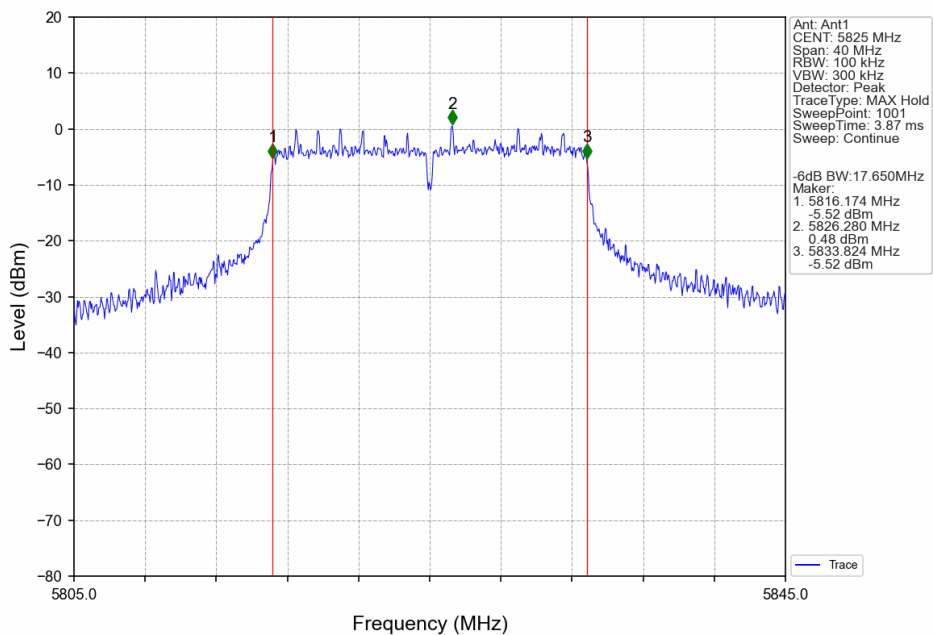
802.11ac(VHT20) LCH 5745MHz Ant1 NTNV



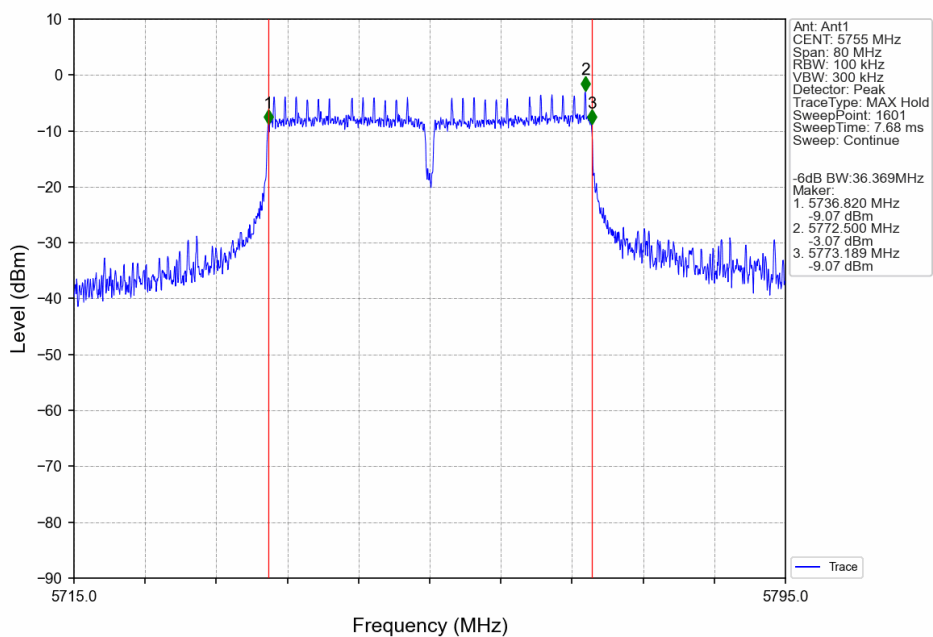
802.11ac(VHT20) MCH 5785MHz Ant1 NTNV

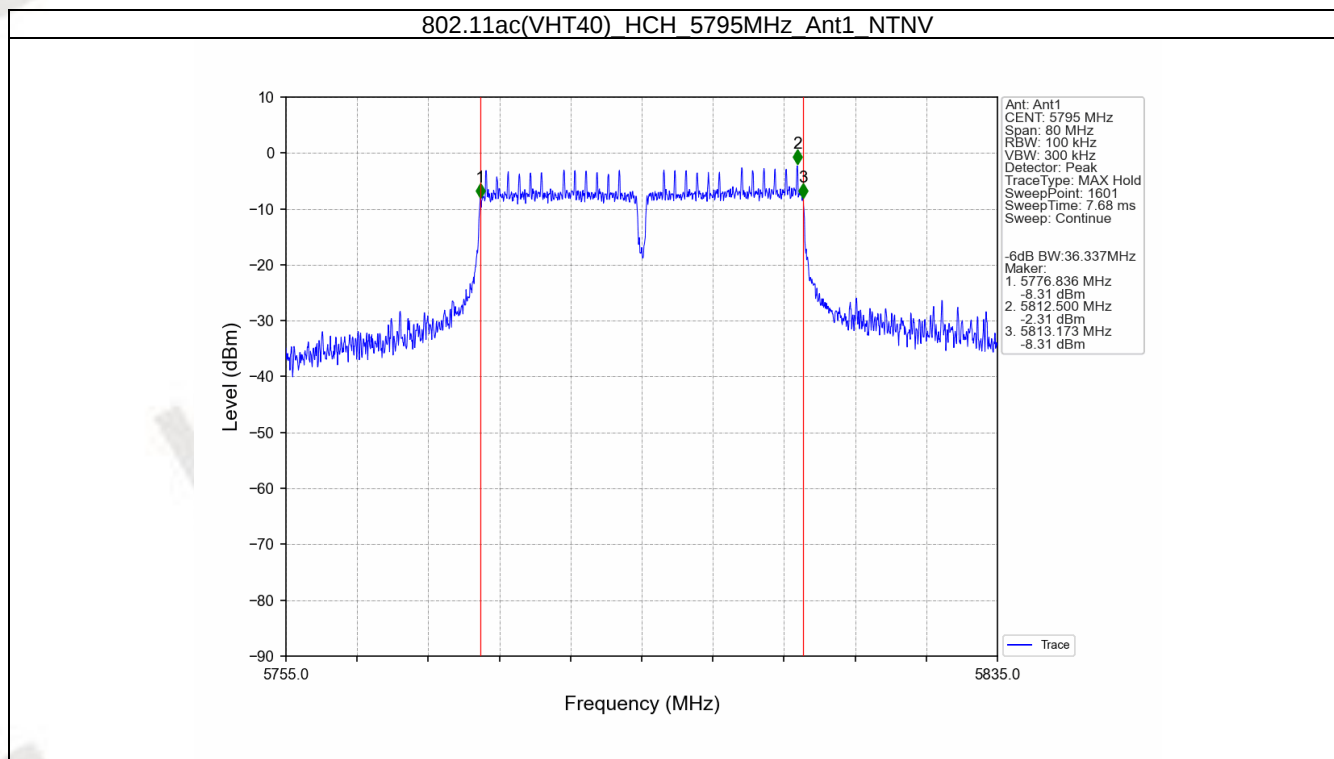


802.11ac(VHT20) HCH 5825MHz Ant1 NTN



802.11ac(VHT40) LCH 5755MHz Ant1 NTN





2. Maximum Conducted Output Power

2.1 Test Result

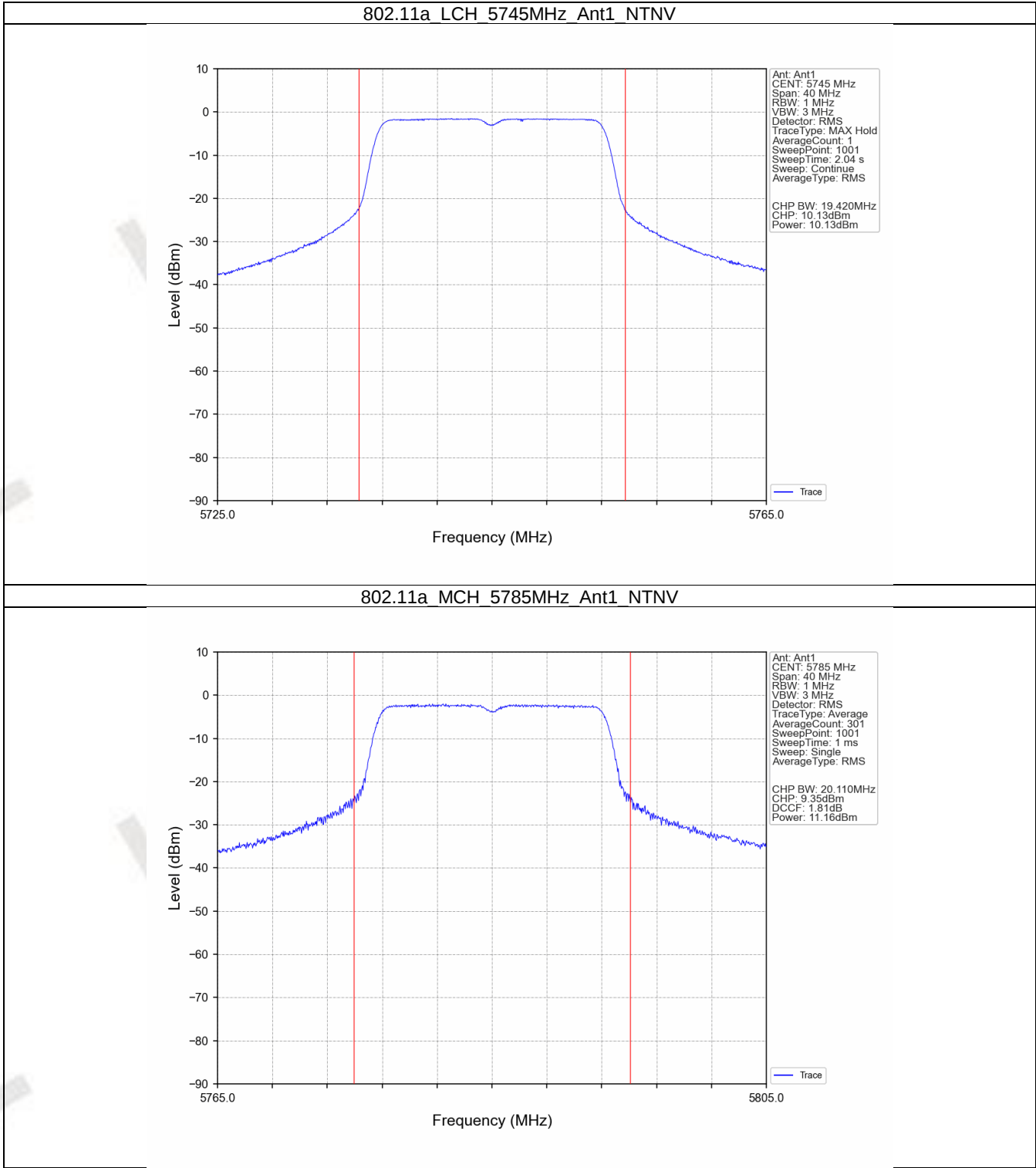
2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	10.13	<=30	Pass
		5785	11.16	<=30	Pass
		5825	11.27	<=30	Pass
802.11n (HT20)	SISO	5745	10.63	<=30	Pass
		5785	11.16	<=30	Pass
		5825	11.68	<=30	Pass
802.11n (HT40)	SISO	5755	10.53	<=30	Pass
		5795	10.08	<=30	Pass
802.11ac (VHT20)	SISO	5745	10.27	<=30	Pass
		5785	11.02	<=30	Pass
		5825	11.58	<=30	Pass
802.11ac (VHT40)	SISO	5755	10.11	<=30	Pass
		5795	10.97	<=30	Pass

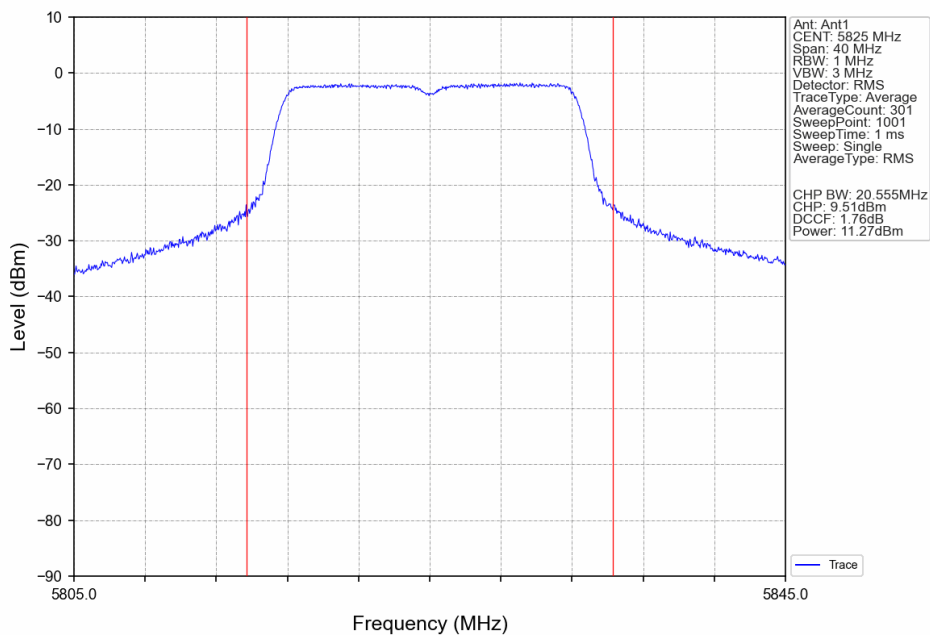
Note1: Antenna Gain: Ant1: 2.25dBi;

2.2 Test Graph

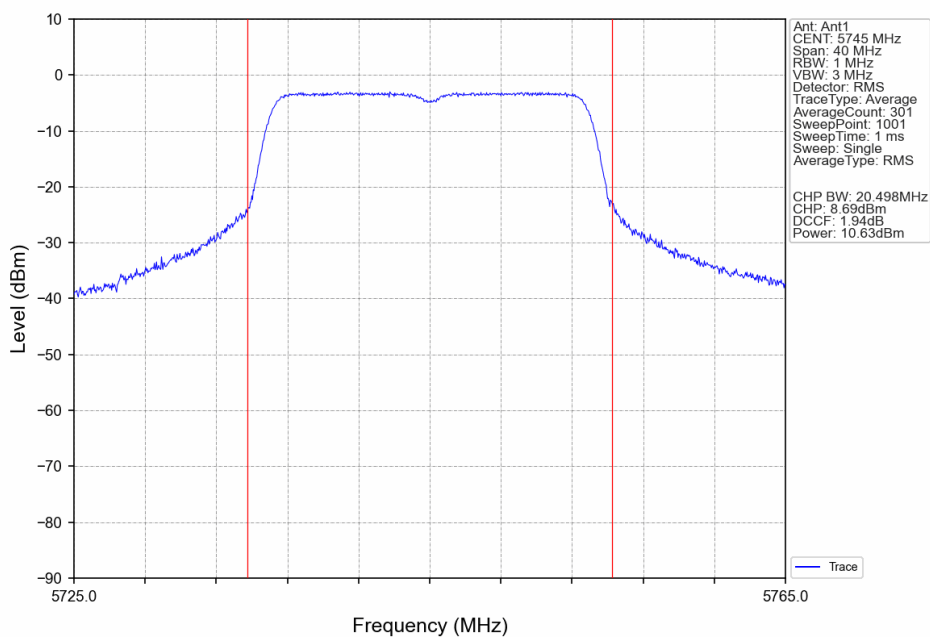
2.2.1 Power



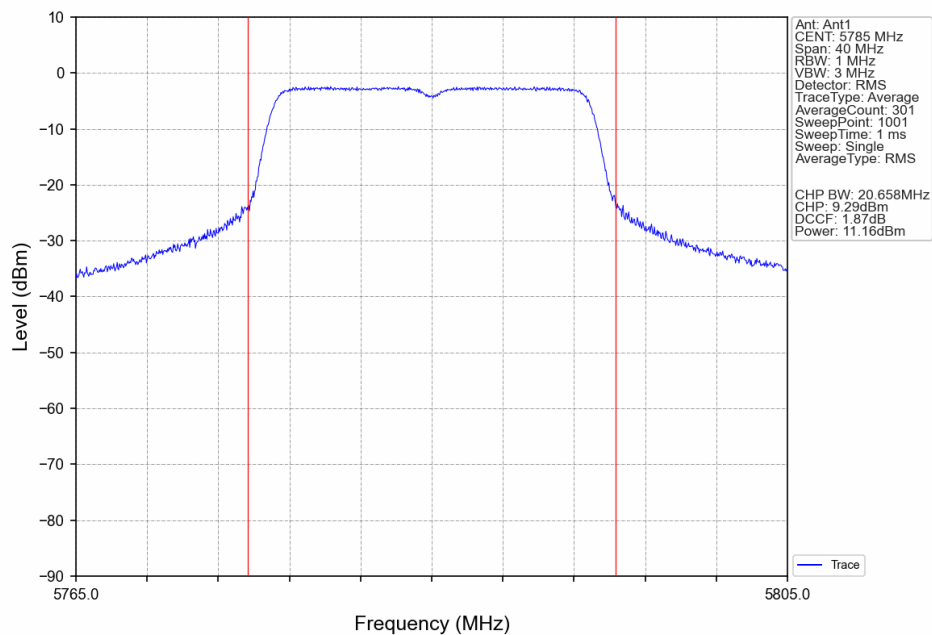
802.11a HCH 5825MHz Ant1 NTNV



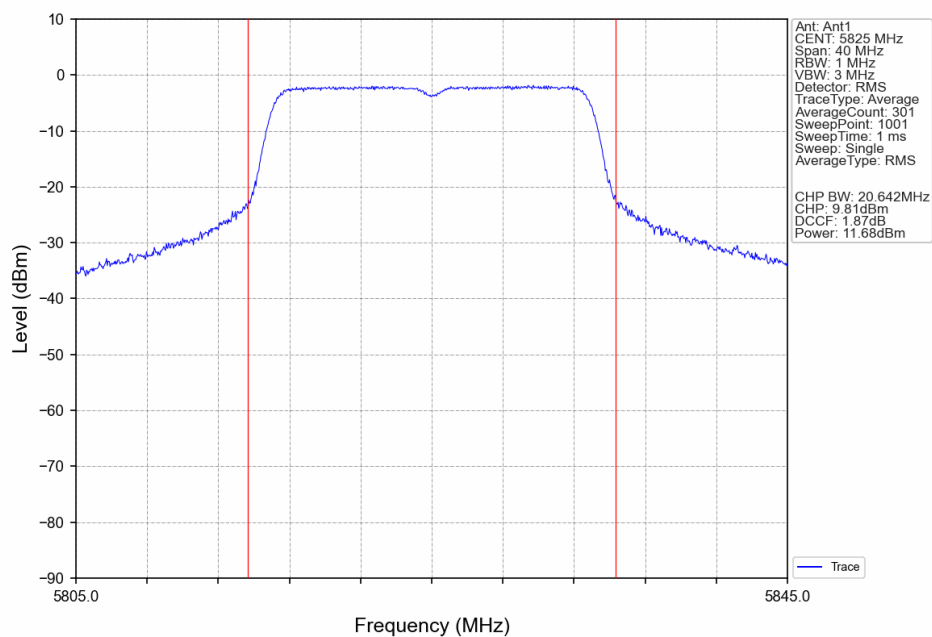
802.11n(HT20) LCH 5745MHz Ant1 NTNV



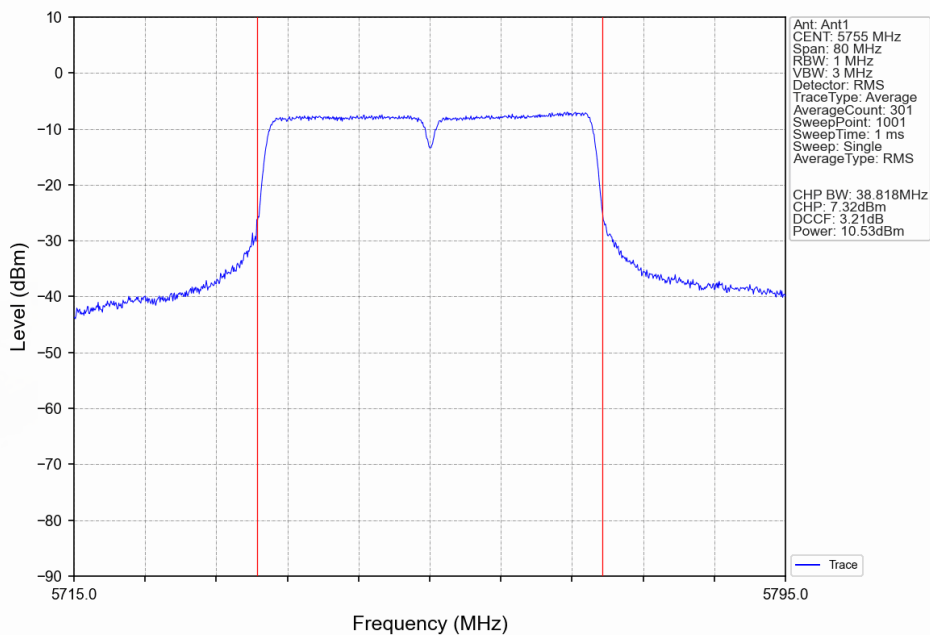
802.11n(HT20) MCH 5785MHz Ant1 NTN



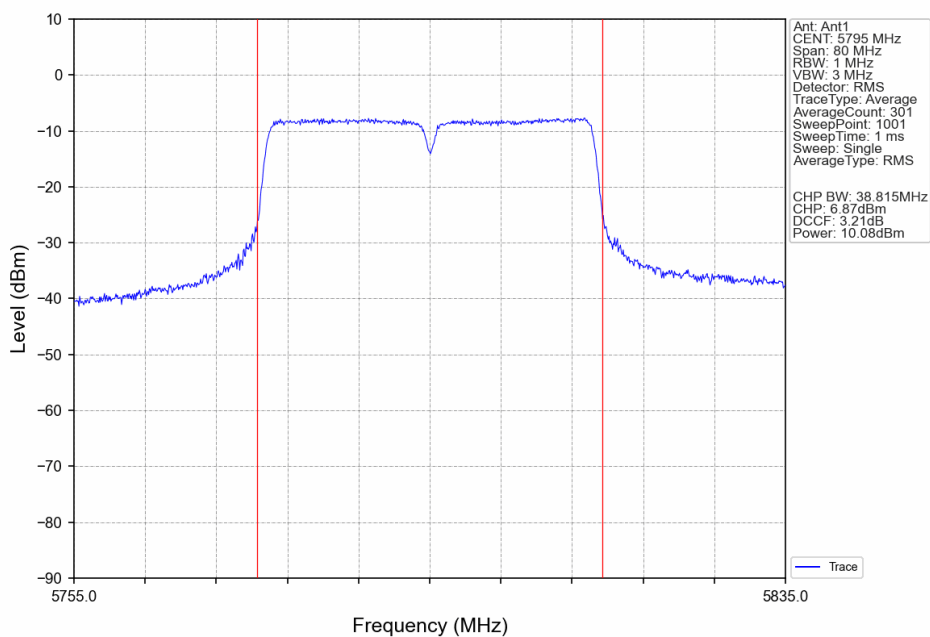
802.11n(HT20) HCH 5825MHz Ant1 NTN



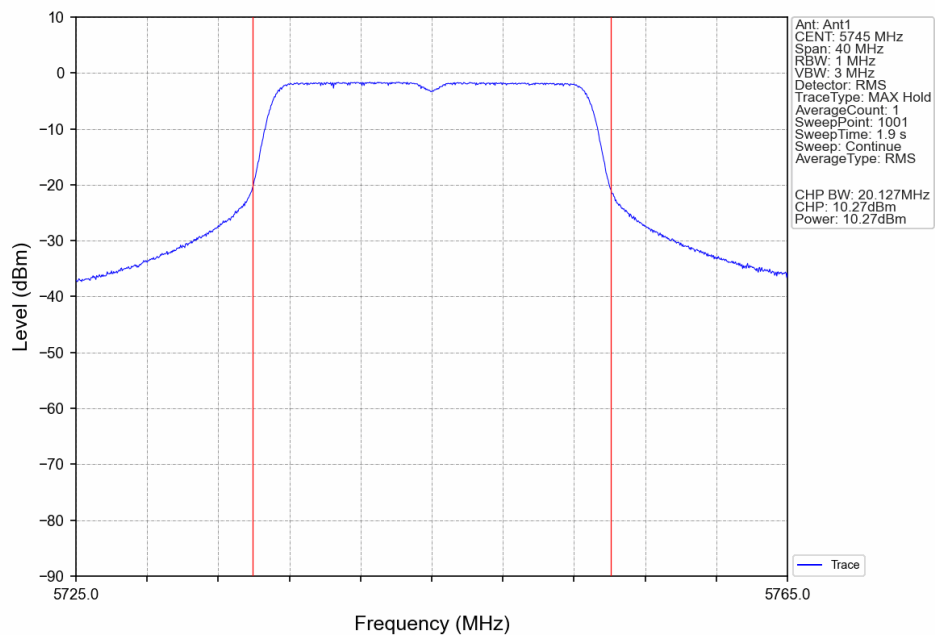
802.11n(HT40) LCH 5755MHz Ant1 NTN



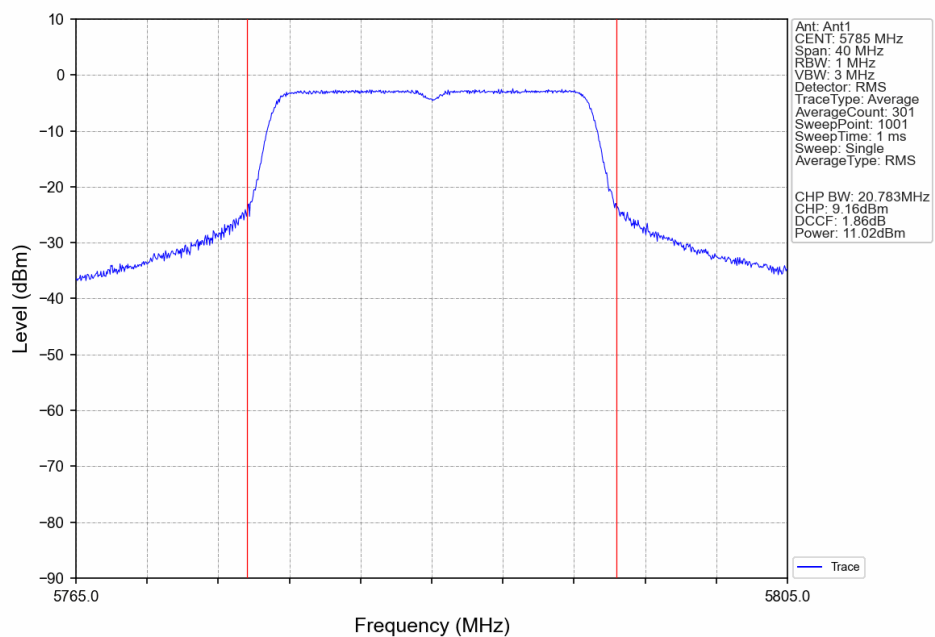
802.11n(HT40) HCH 5795MHz Ant1 NTN



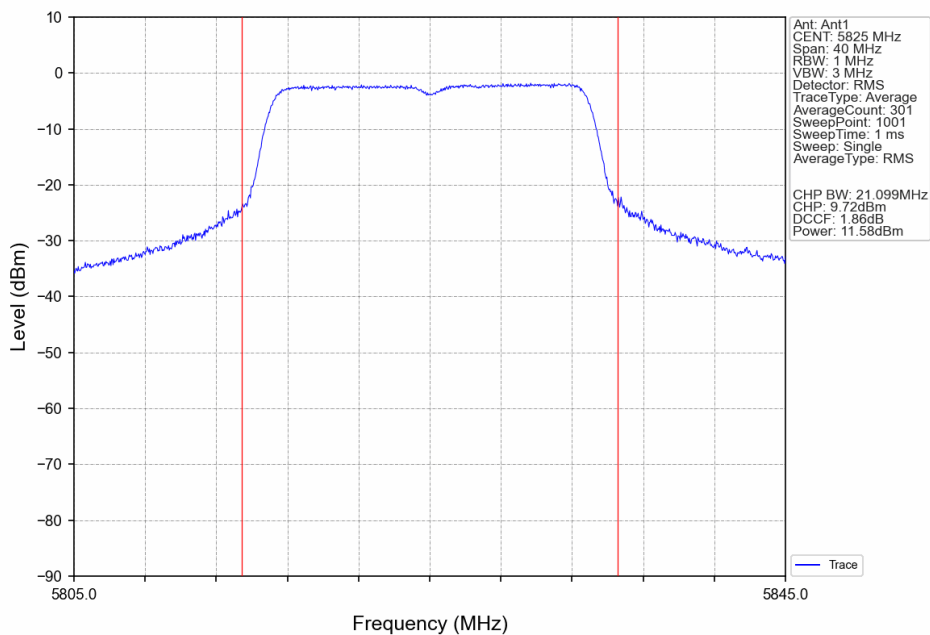
802.11ac(VHT20) LCH 5745MHz Ant1 NTNV



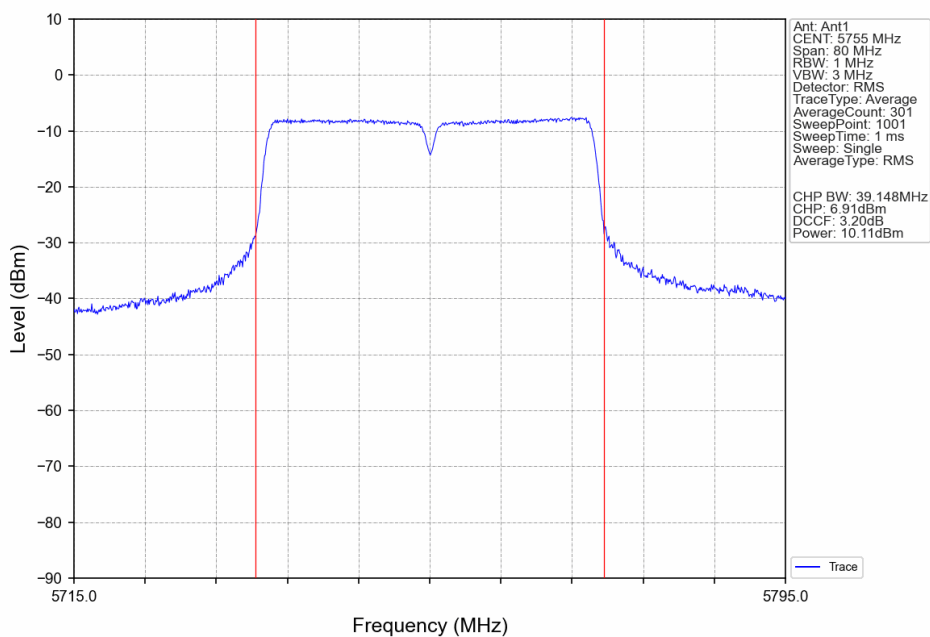
802.11ac(VHT20) MCH 5785MHz Ant1 NTNV

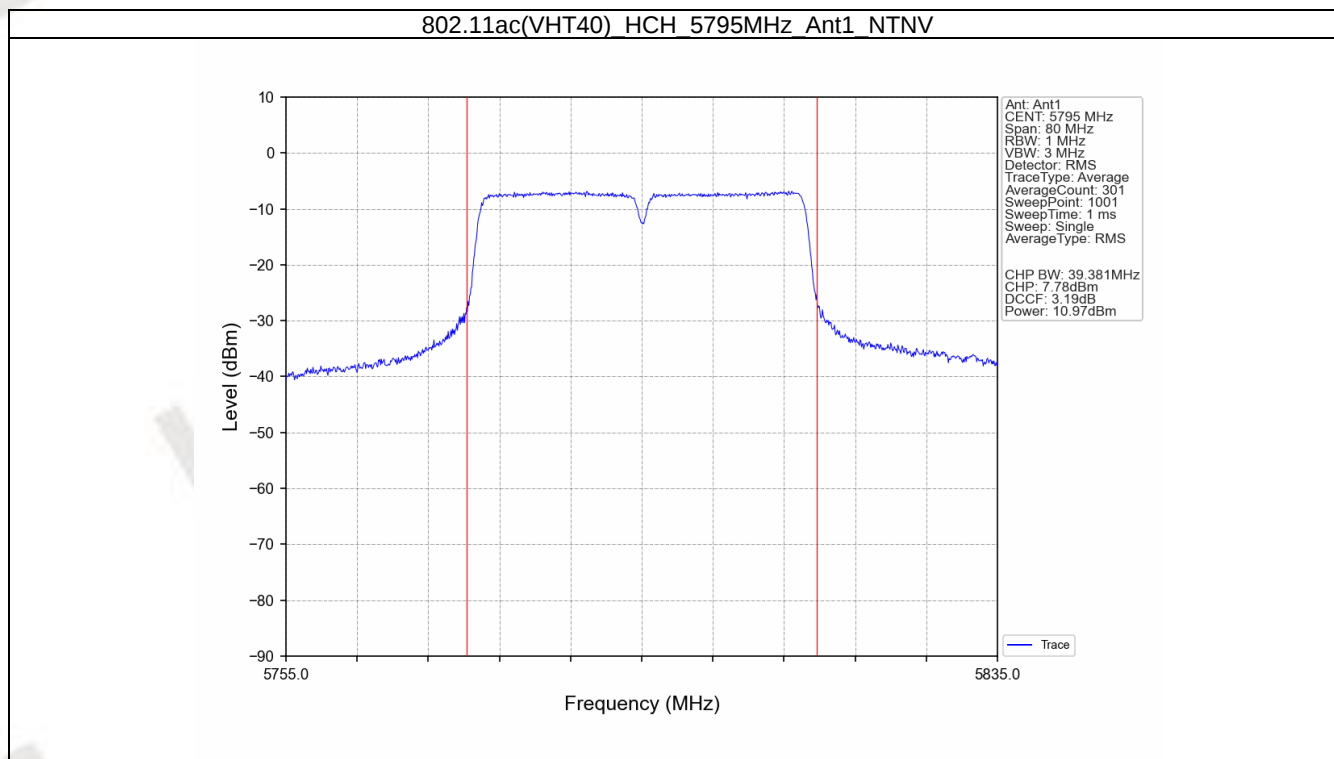


802.11ac(VHT20) HCH 5825MHz Ant1 NTN



802.11ac(VHT40) LCH 5755MHz Ant1 NTN





3. Maximum Power Spectral Density

3.1 Test Result

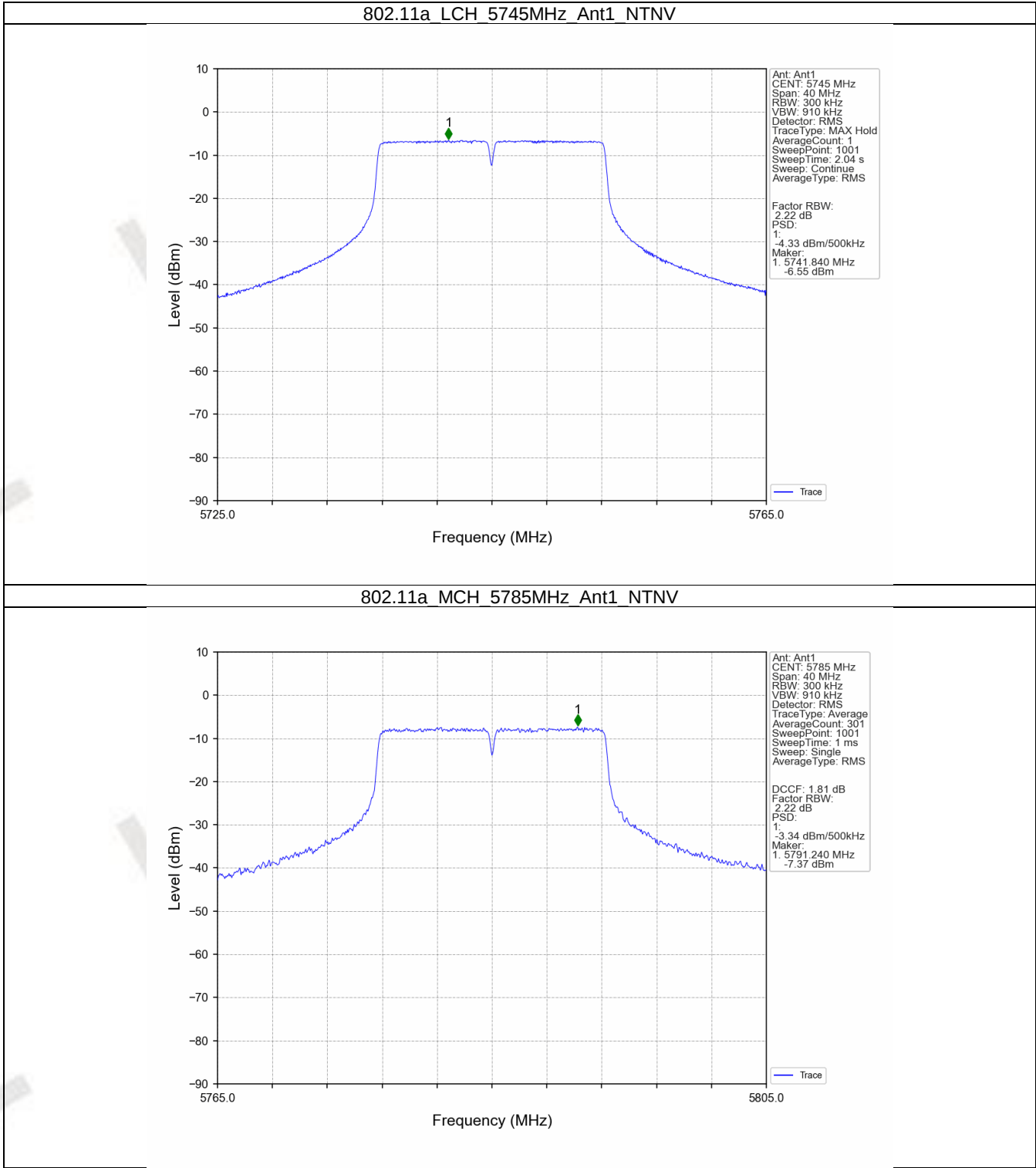
3.1.1 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-4.33	<=30	Pass
		5785	-3.34	<=30	Pass
		5825	-2.34	<=30	Pass
802.11n (HT20)	SISO	5745	-3.92	<=30	Pass
		5785	-3.34	<=30	Pass
		5825	-2.83	<=30	Pass
802.11n (HT40)	SISO	5755	-6.99	<=30	Pass
		5795	-5.97	<=30	Pass
802.11ac (VHT20)	SISO	5745	-4.44	<=30	Pass
		5785	-3.44	<=30	Pass
		5825	-2.57	<=30	Pass
802.11ac (VHT40)	SISO	5755	-6.60	<=30	Pass
		5795	-5.84	<=30	Pass

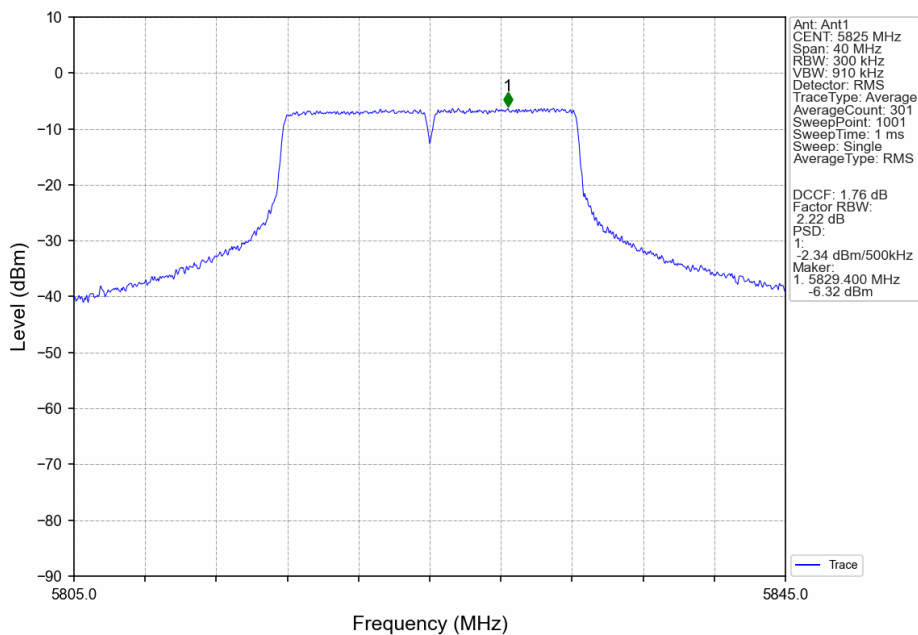
Note1: Antenna Gain: Ant1: 2.25dBi;

3.2 Test Graph

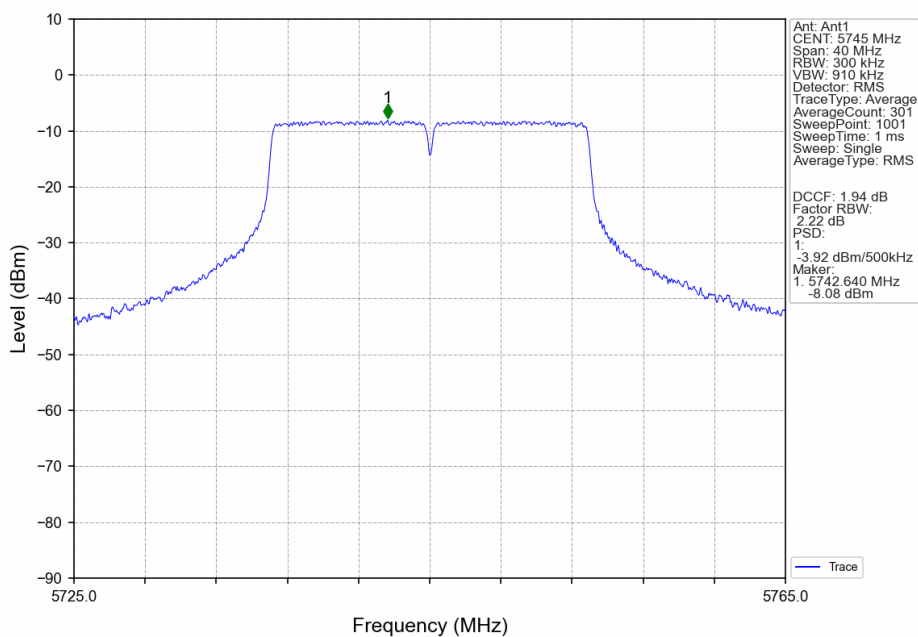
3.2.1 PSD-Band3



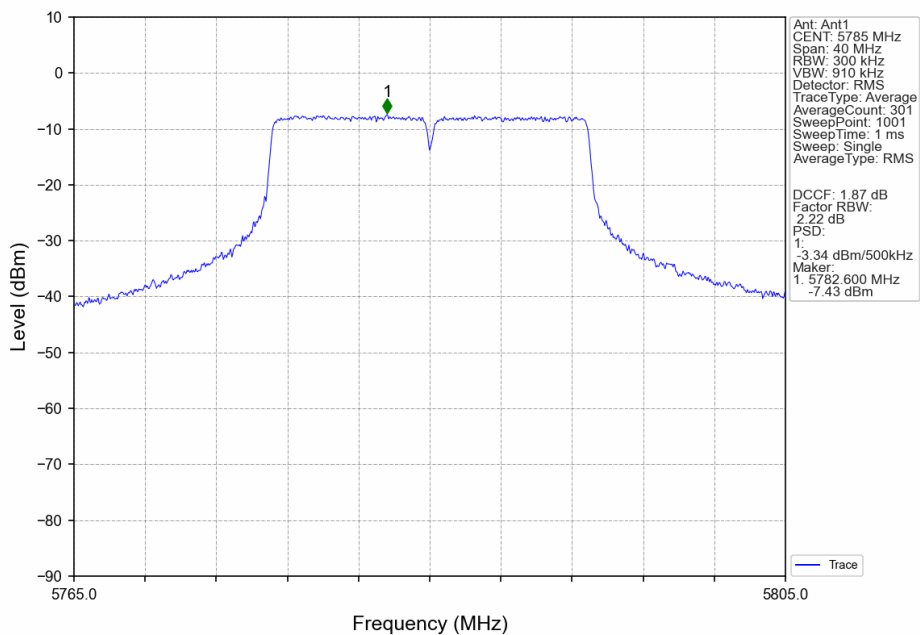
802.11a HCH 5825MHz Ant1 NTNV



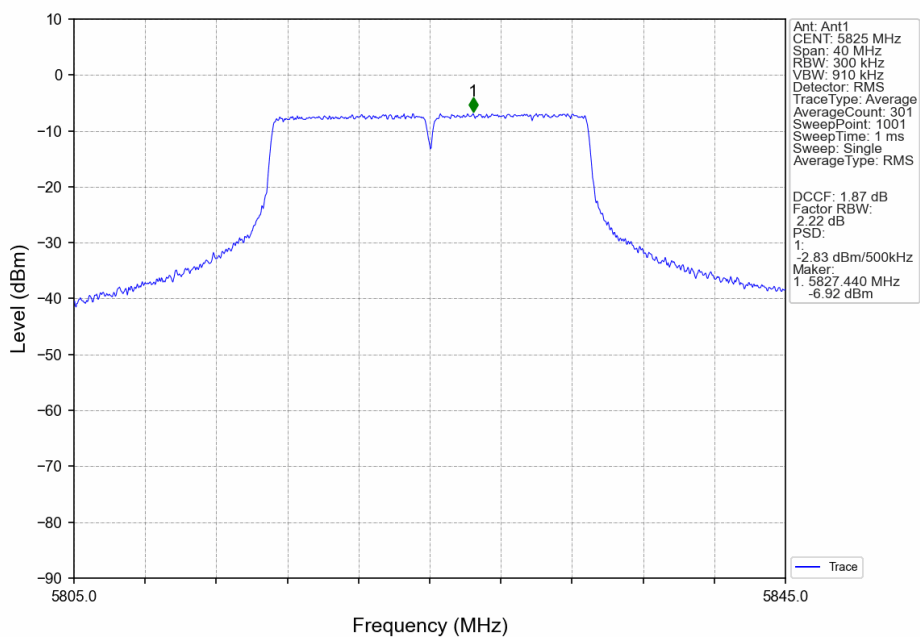
802.11n(HT20) LCH 5745MHz Ant1 NTNV



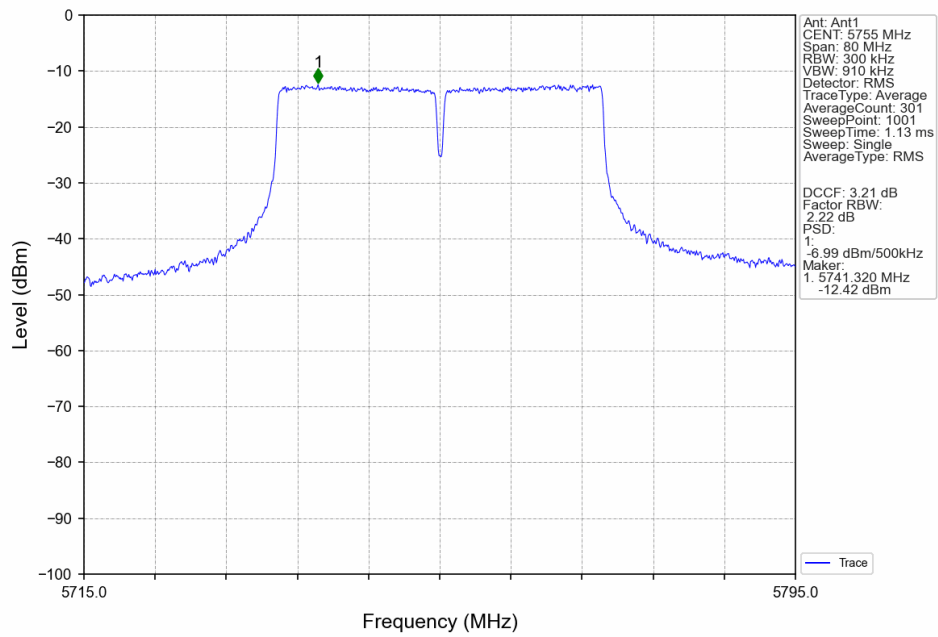
802.11n(HT20) MCH 5785MHz Ant1 NTN



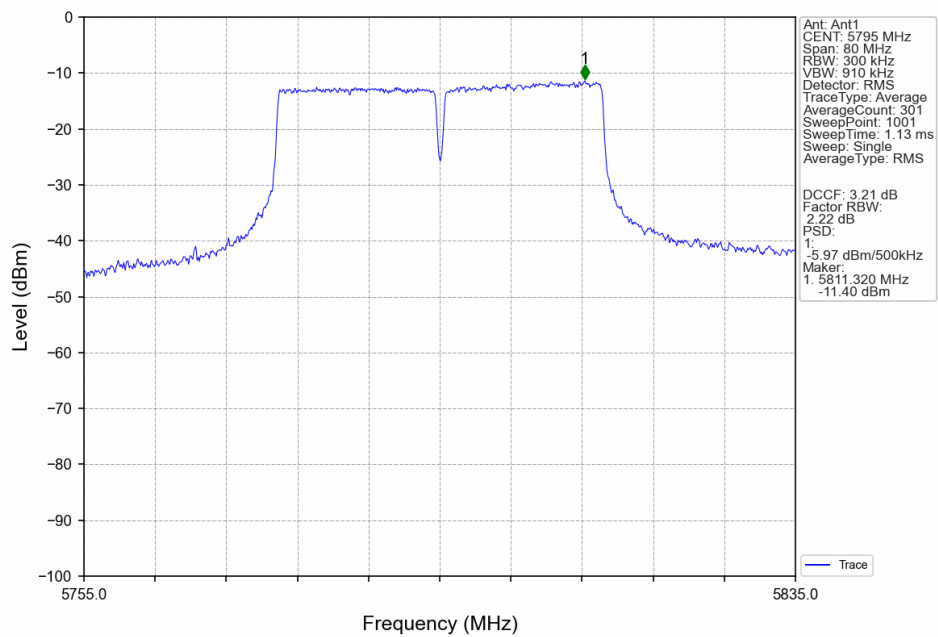
802.11n(HT20) HCH 5825MHz Ant1 NTN



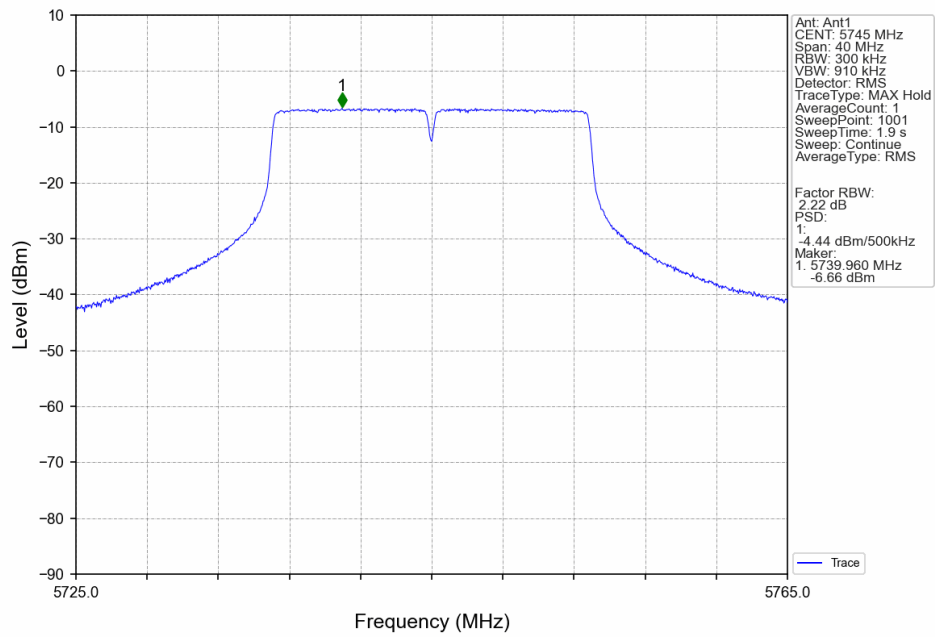
802.11n(HT40) LCH 5755MHz Ant1 NTN



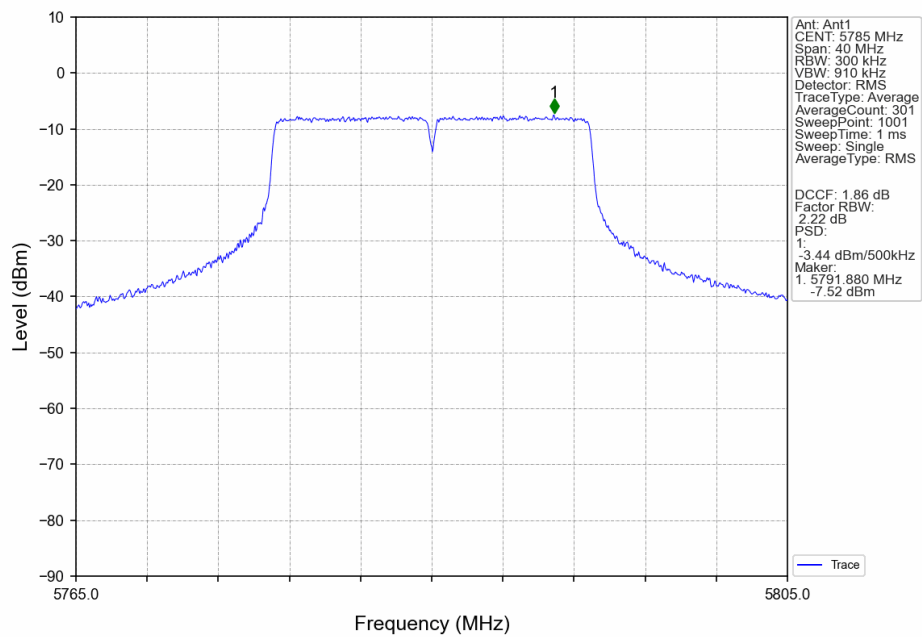
802.11n(HT40) HCH 5795MHz Ant1 NTN



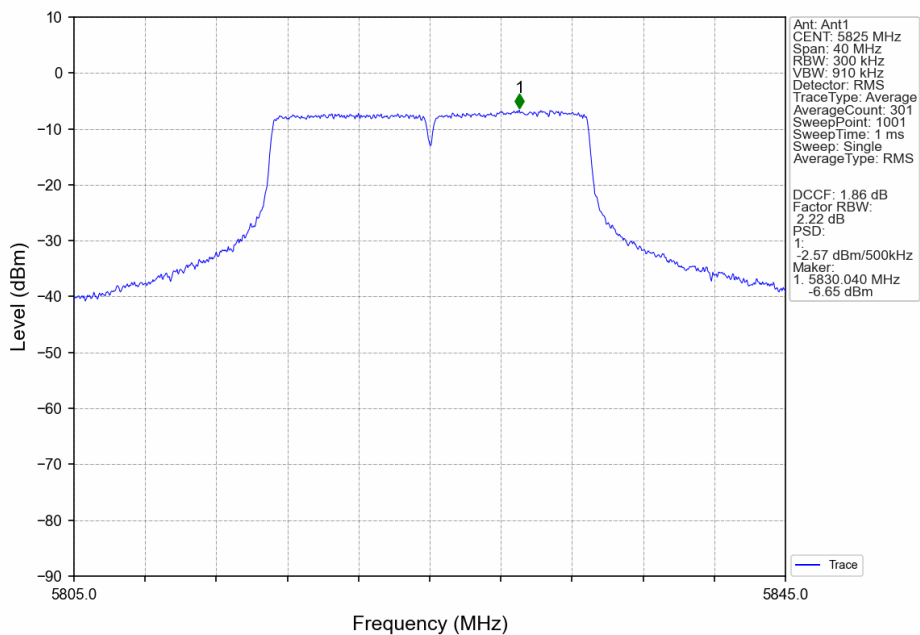
802.11ac(VHT20) LCH 5745MHz Ant1 NTNV



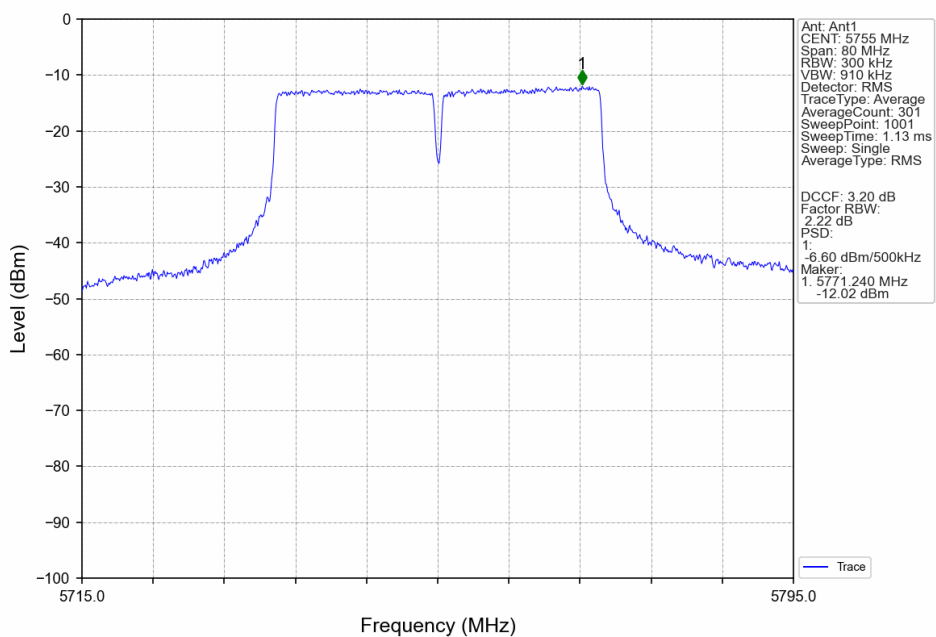
802.11ac(VHT20) MCH 5785MHz Ant1 NTNV

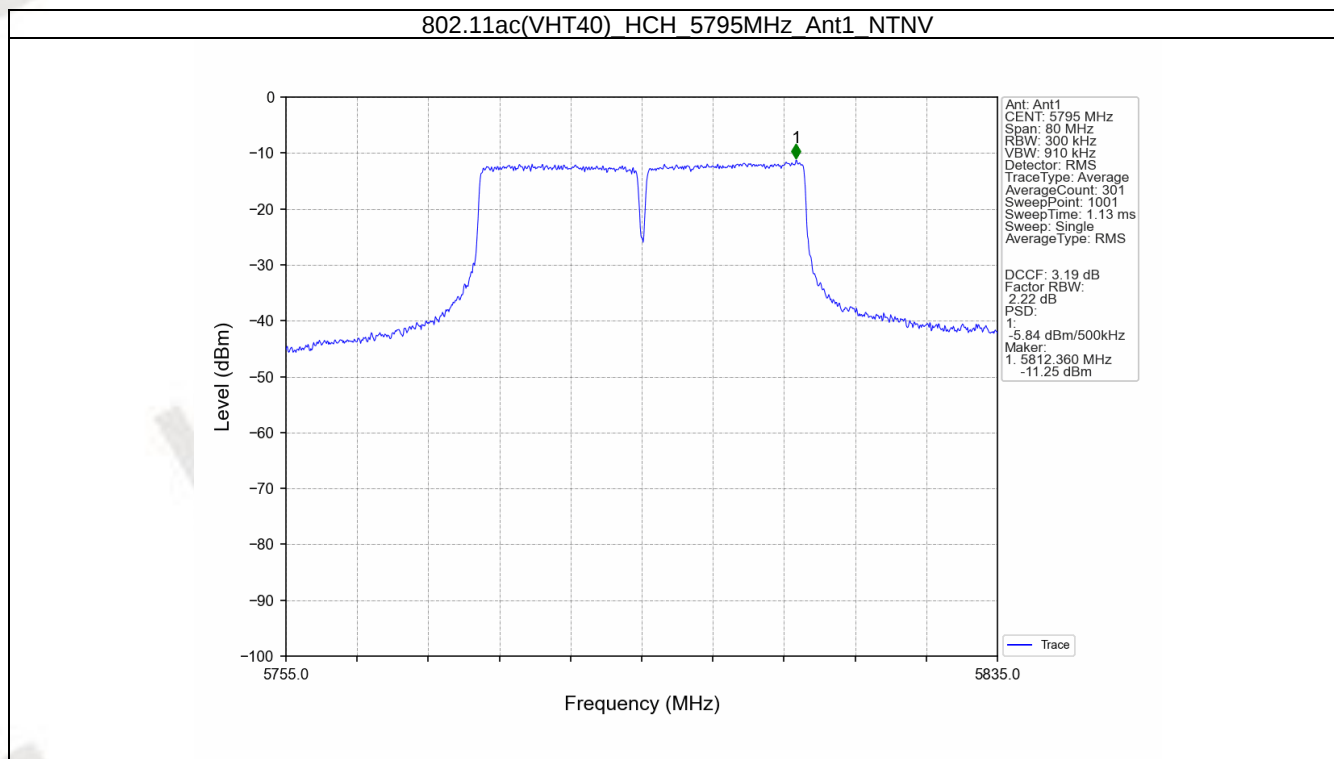


802.11ac(VHT20) HCH 5825MHz Ant1 NTNV



802.11ac(VHT40) LCH 5755MHz Ant1 NTNV





4. Frequency Stability

4.1 Test Result

4.1.1 Ant1

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	5744.997	5725 to 5850	Pass
			-30	120	5744.997	5725 to 5850	Pass
			-20	120	5744.997	5725 to 5850	Pass
			-10	120	5744.997	5725 to 5850	Pass
			0	120	5744.997	5725 to 5850	Pass
			10	120	5744.997	5725 to 5850	Pass
			30	120	5744.997	5725 to 5850	Pass
			40	120	5744.997	5725 to 5850	Pass
			50	120	5744.997	5725 to 5850	Pass
		5785	20	102	5784.997	5725 to 5850	Pass
				120	5784.997	5725 to 5850	Pass
				138	5784.997	5725 to 5850	Pass
			-30	120	5784.997	5725 to 5850	Pass
			-20	120	5784.997	5725 to 5850	Pass
			-10	120	5784.997	5725 to 5850	Pass
			0	120	5784.997	5725 to 5850	Pass
			10	120	5784.997	5725 to 5850	Pass
			30	120	5784.997	5725 to 5850	Pass
			40	120	5784.997	5725 to 5850	Pass
			50	120	5784.997	5725 to 5850	Pass
		5825	20	102	5824.997	5725 to 5850	Pass
				120	5824.998	5725 to 5850	Pass
				138	5824.998	5725 to 5850	Pass
			-30	120	5824.998	5725 to 5850	Pass
			-20	120	5824.997	5725 to 5850	Pass
			-10	120	5824.998	5725 to 5850	Pass
			0	120	5824.997	5725 to 5850	Pass
			10	120	5824.998	5725 to 5850	Pass
			30	120	5824.998	5725 to 5850	Pass
			40	120	5824.998	5725 to 5850	Pass
			50	120	5824.998	5725 to 5850	Pass
		5755	20	102	5754.997	5725 to 5850	Pass
				120	5754.997	5725 to 5850	Pass
				138	5754.997	5725 to 5850	Pass
			-30	120	5754.997	5725 to 5850	Pass
			-20	120	5754.997	5725 to 5850	Pass
			-10	120	5754.997	5725 to 5850	Pass
			0	120	5754.997	5725 to 5850	Pass
			10	120	5754.997	5725 to 5850	Pass
			30	120	5754.997	5725 to 5850	Pass
			40	120	5754.997	5725 to 5850	Pass
			50	120	5754.997	5725 to 5850	Pass
		5795	20	102	5794.997	5725 to 5850	Pass
				120	5794.997	5725 to 5850	Pass
				138	5794.997	5725 to 5850	Pass
			-30	120	5794.997	5725 to 5850	Pass
			-20	120	5794.997	5725 to 5850	Pass
			-10	120	5794.997	5725 to 5850	Pass

			0	120	5794.997	5725 to 5850	Pass
			10	120	5794.997	5725 to 5850	Pass
			30	120	5794.997	5725 to 5850	Pass
			40	120	5794.997	5725 to 5850	Pass
			50	120	5794.997	5725 to 5850	Pass

5. Duty Cycle

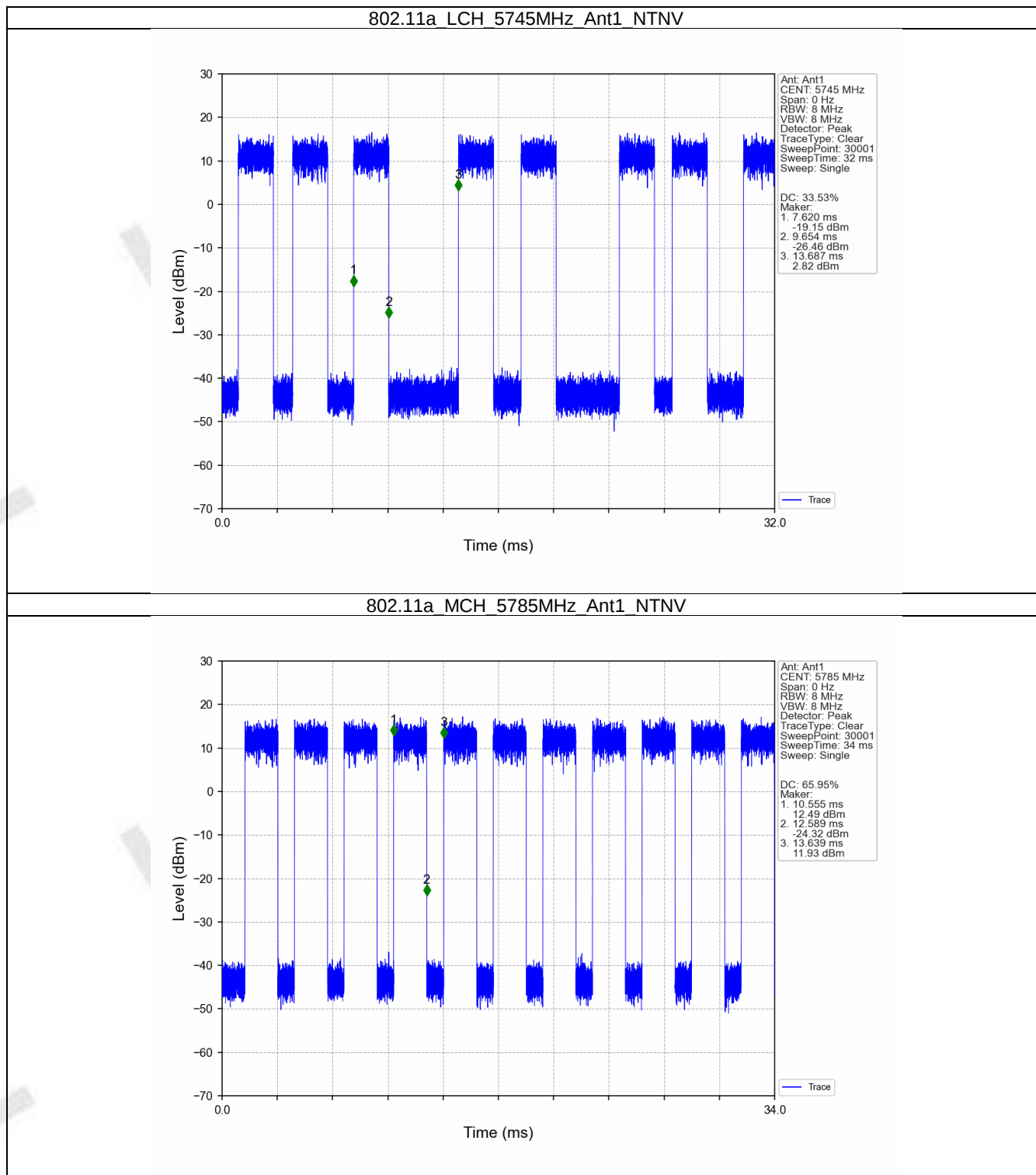
5.1 Test Result

5.1.1 Ant1

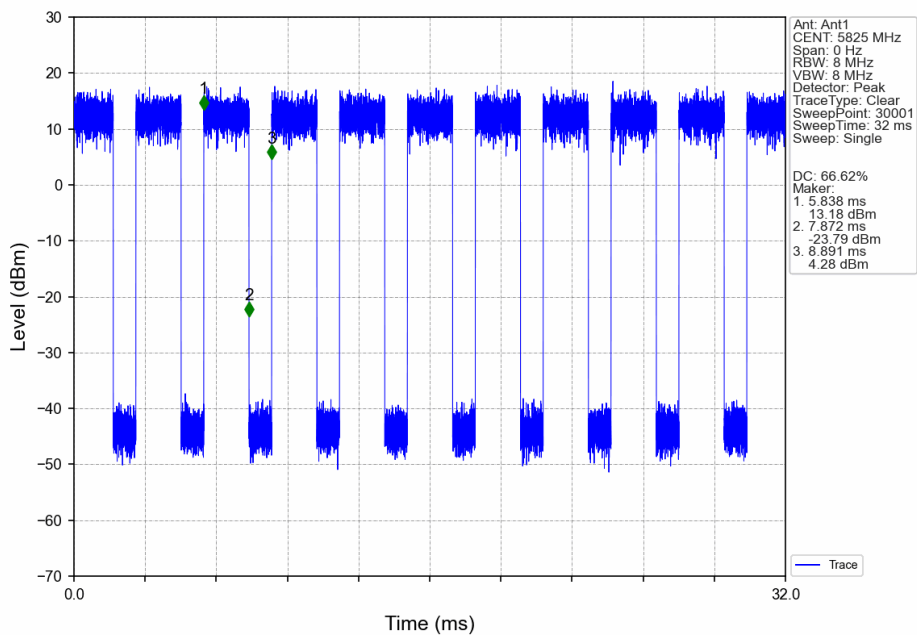
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	2.034	6.067	33.53	4.75	32.94
		5785	2.034	3.084	65.95	1.81	0.76
		5825	2.034	3.053	66.62	1.76	0.01
802.11n (HT20)	SISO	5745	1.895	2.959	64.04	1.94	1.11
		5785	1.894	2.913	65.02	1.87	0.12
		5825	1.894	2.913	65.02	1.87	0.13
802.11n (HT40)	SISO	5755	0.934	1.954	47.80	3.21	0.13
		5795	0.933	1.953	47.77	3.21	0.05
802.11ac (VHT20)	SISO	5745	1.902	3.140	60.57	2.18	4.65
		5785	1.902	2.921	65.11	1.86	0.03
		5825	1.902	2.921	65.11	1.86	0.03
802.11ac (VHT40)	SISO	5755	0.937	1.958	47.85	3.20	0.20
		5795	0.938	1.956	47.96	3.19	0.17

5.2 Test Graph

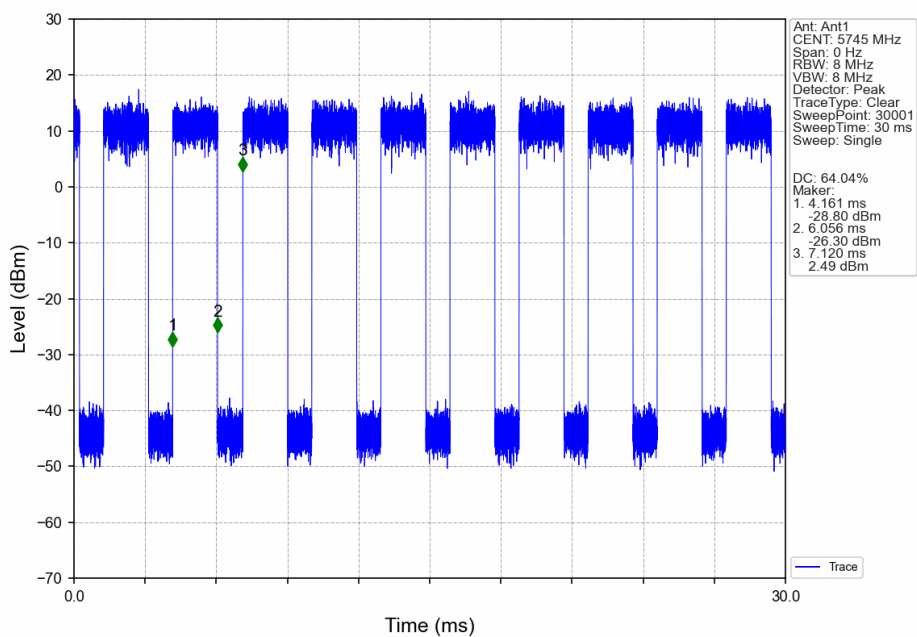
5.2.1 Ant1



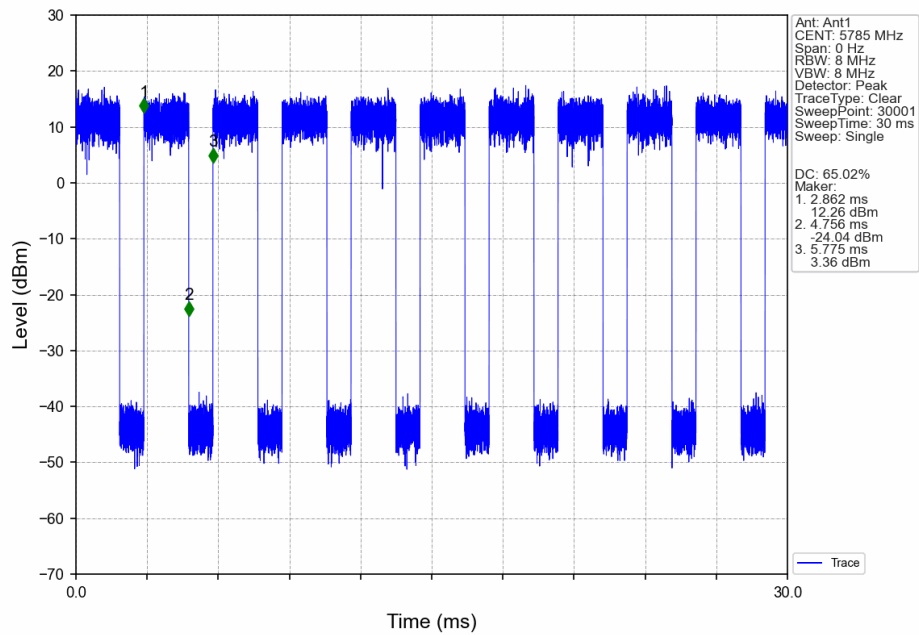
802.11a HCH 5825MHz Ant1 NTN



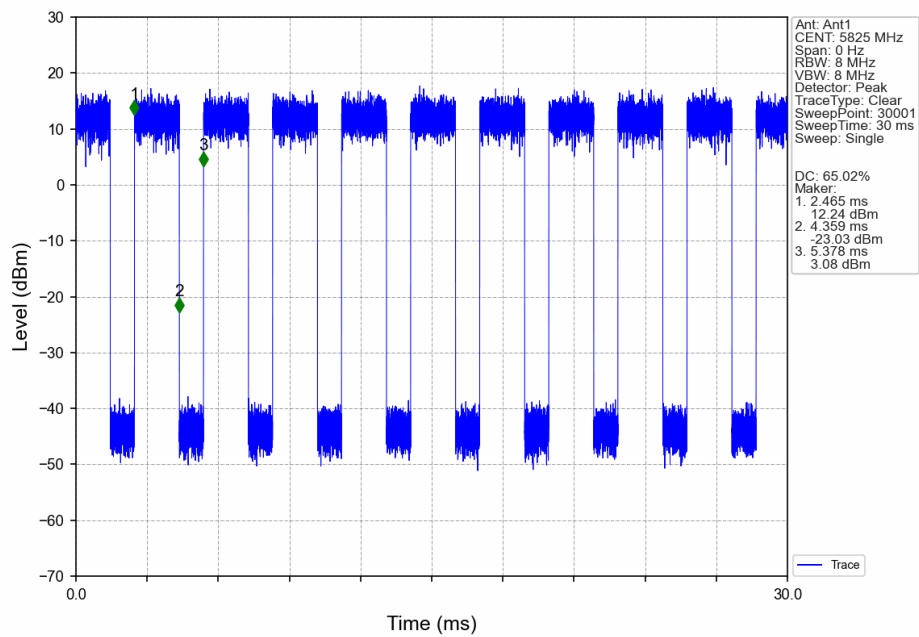
802.11n(HT20) LCH 5745MHz Ant1 NTN



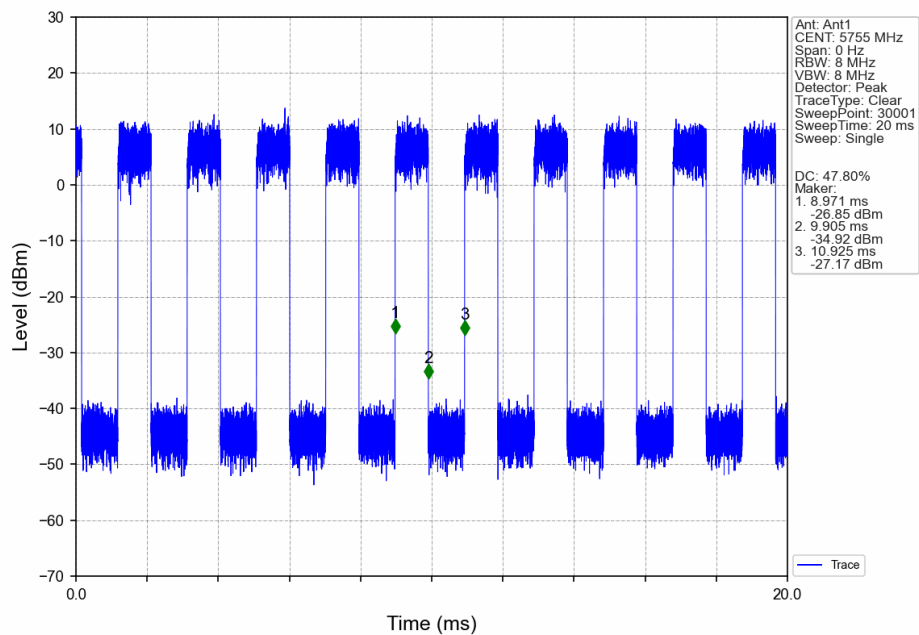
802.11n(HT20) MCH 5785MHz Ant1 NTN



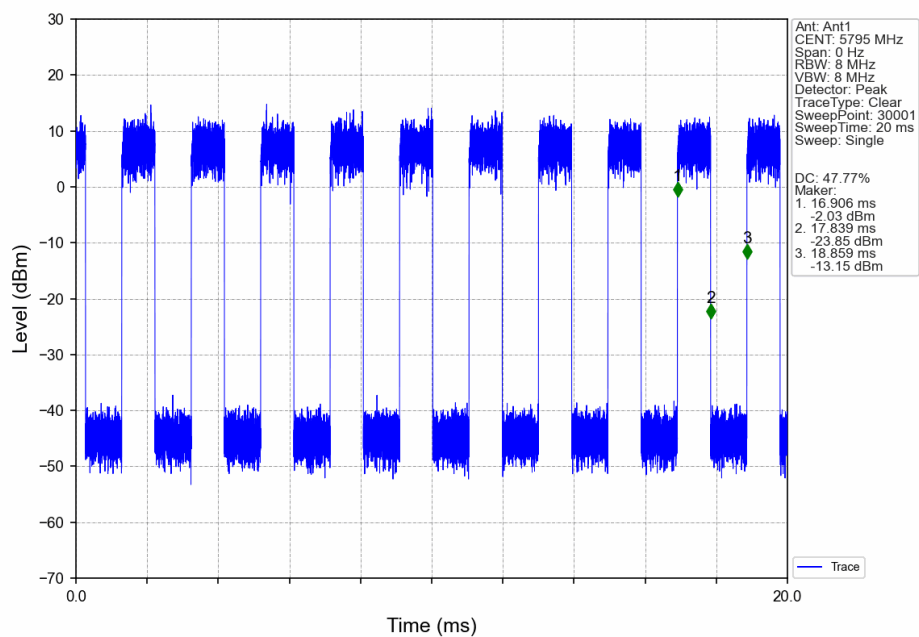
802.11n(HT20) HCH 5825MHz Ant1 NTN



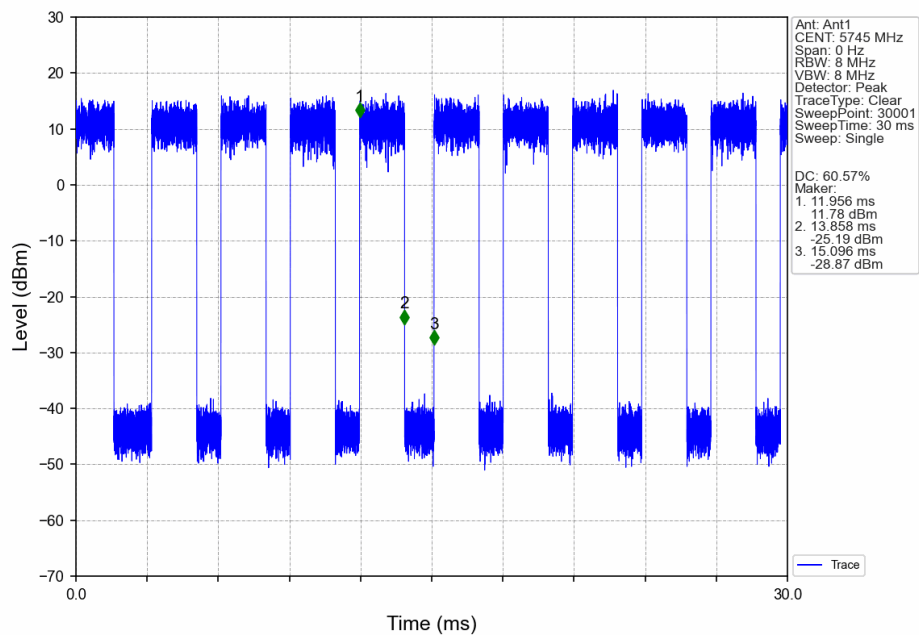
802.11n(HT40) LCH 5755MHz Ant1 NTN



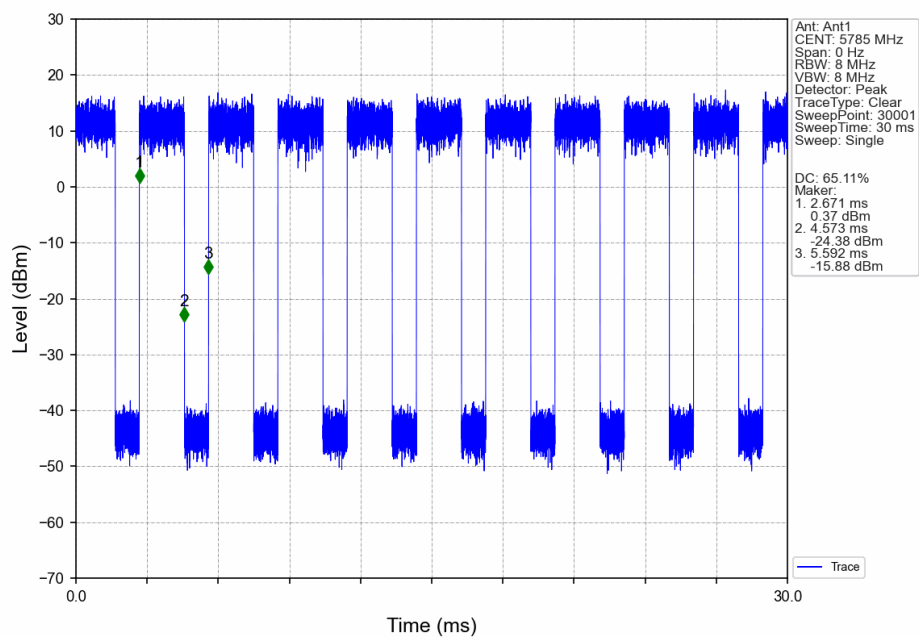
802.11n(HT40) HCH 5795MHz Ant1 NTN



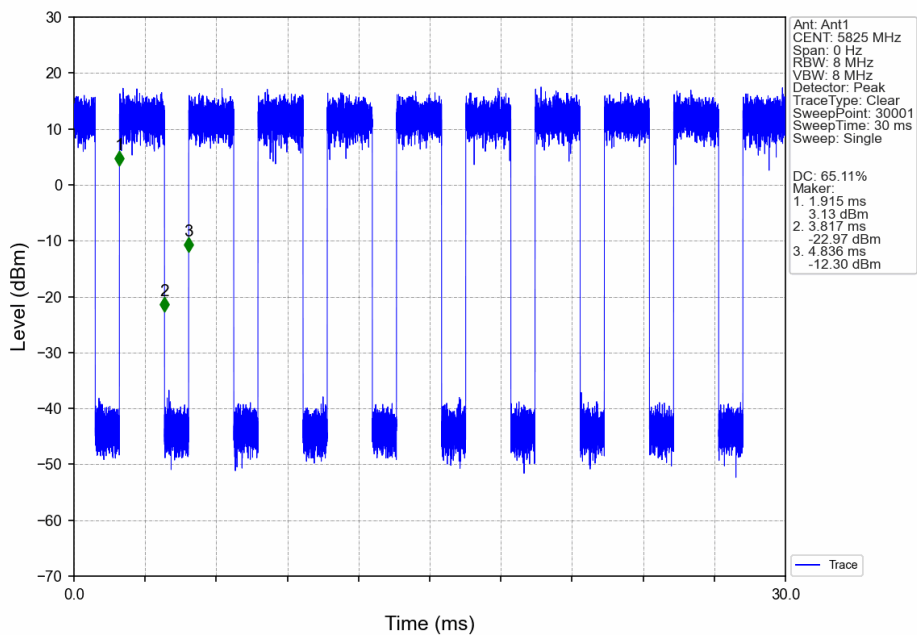
802.11ac(VHT20) LCH 5745MHz Ant1 NTNV



802.11ac(VHT20) MCH 5785MHz Ant1 NTNV



802.11ac(VHT20) HCH 5825MHz Ant1 NTV



802.11ac(VHT40) LCH 5755MHz Ant1 NTV

