

1. Duty Cycle

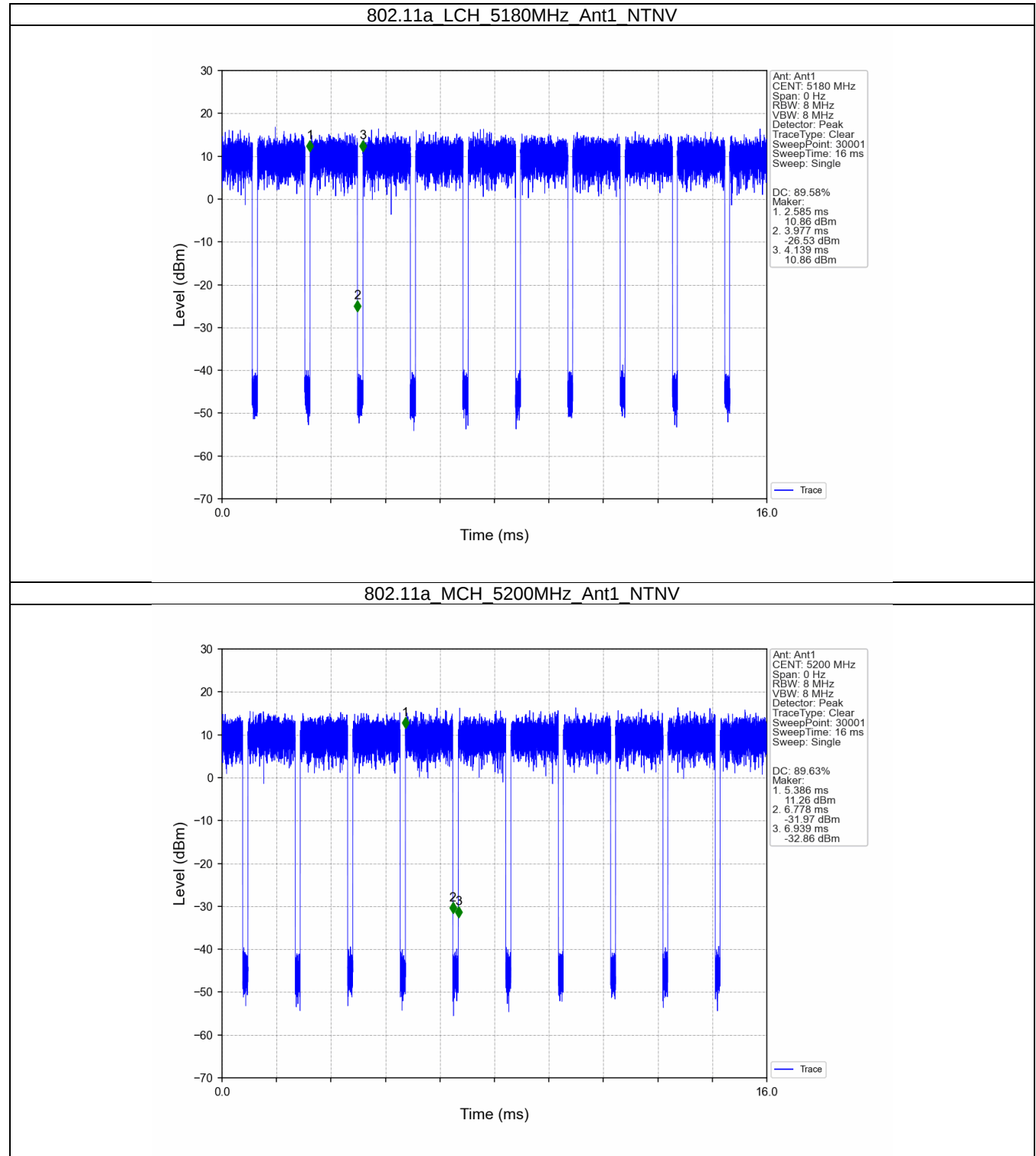
1.1 Test Result

1.1.1 Ant1

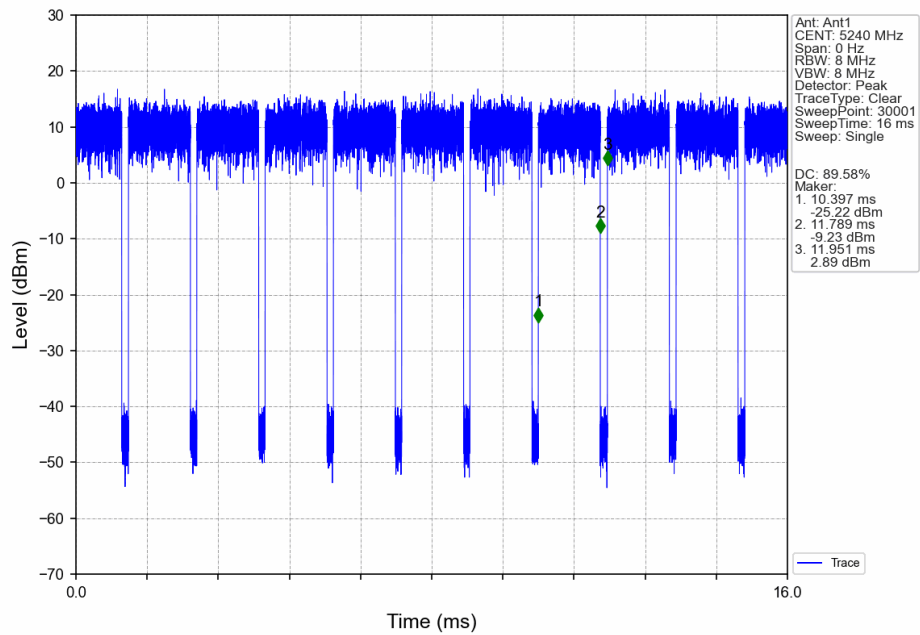
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.392	1.554	89.58	0.48	1.09
		5200	1.392	1.553	89.63	0.48	1.06
		5240	1.392	1.554	89.58	0.48	1.06
		5745	1.393	1.554	89.64	0.47	1.09
		5785	1.394	1.555	89.65	0.47	1.02
		5825	1.393	1.554	89.64	0.47	1.06
802.11n (HT20)	MIMO	5180	1.174	1.417	82.85	0.82	5.04
		5200	1.174	1.363	86.13	0.65	1.75
		5240	1.175	1.354	86.78	0.62	1.19
		5745	1.174	1.417	82.85	0.82	5.04
		5785	1.175	1.417	82.92	0.81	4.43
		5825	1.175	1.427	82.34	0.84	5.52
802.11n (HT40)	MIMO	5190	0.587	0.811	72.38	1.40	6.12
		5230	0.588	0.856	68.69	1.63	9.91
		5755	0.587	0.856	68.57	1.64	9.91
		5795	0.588	0.856	68.69	1.63	9.95
802.11ac (VHT20)	MIMO	5180	1.185	1.428	82.98	0.81	5.01
		5200	1.186	1.428	83.05	0.81	4.94
		5240	1.185	1.419	83.51	0.78	3.89
		5745	1.186	1.428	83.05	0.81	5.01
		5785	1.186	1.464	81.01	0.91	6.47
		5825	1.185	1.428	82.98	0.81	5.01
802.11ac (VHT40)	MIMO	5190	0.592	0.860	68.84	1.62	8.98
		5230	0.591	0.779	75.87	1.20	1.81
		5755	0.592	0.752	78.72	1.04	1.93
		5795	0.591	0.752	78.59	1.05	1.95
802.11ac (VHT80)	MIMO	5210	0.295	0.484	60.95	2.15	3.65
		5775	0.297	0.457	64.99	1.87	2.68

1.2 Test Graph

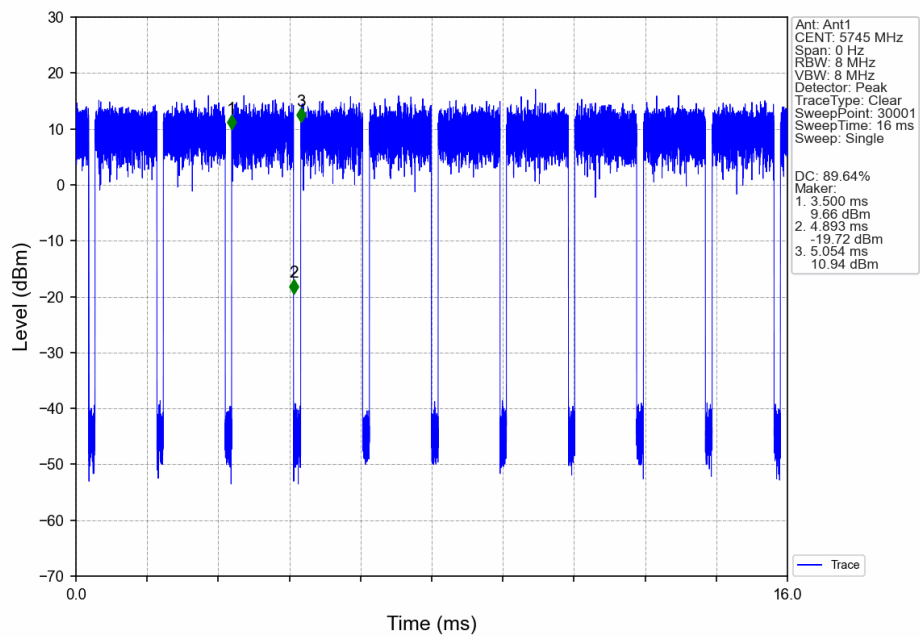
1.2.1 Ant1



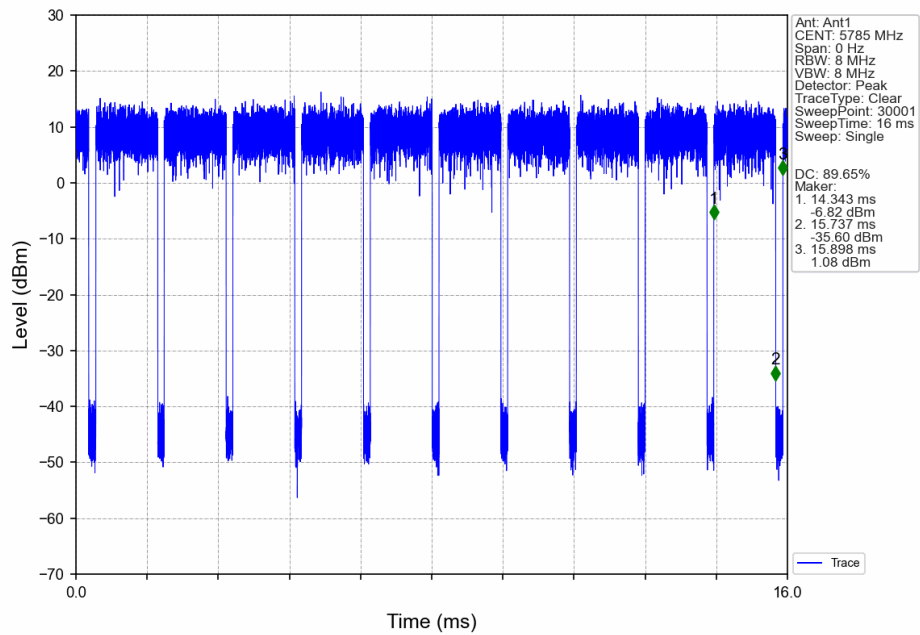
802.11a_HCH_5240MHz_Ant1_NTNV



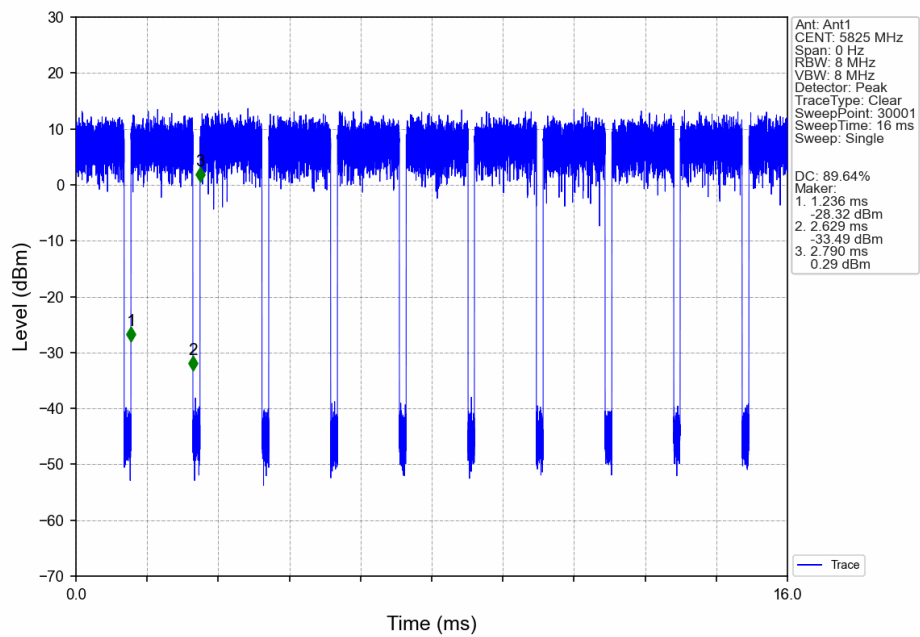
802.11a_LCH_5745MHz_Ant1_NTNV



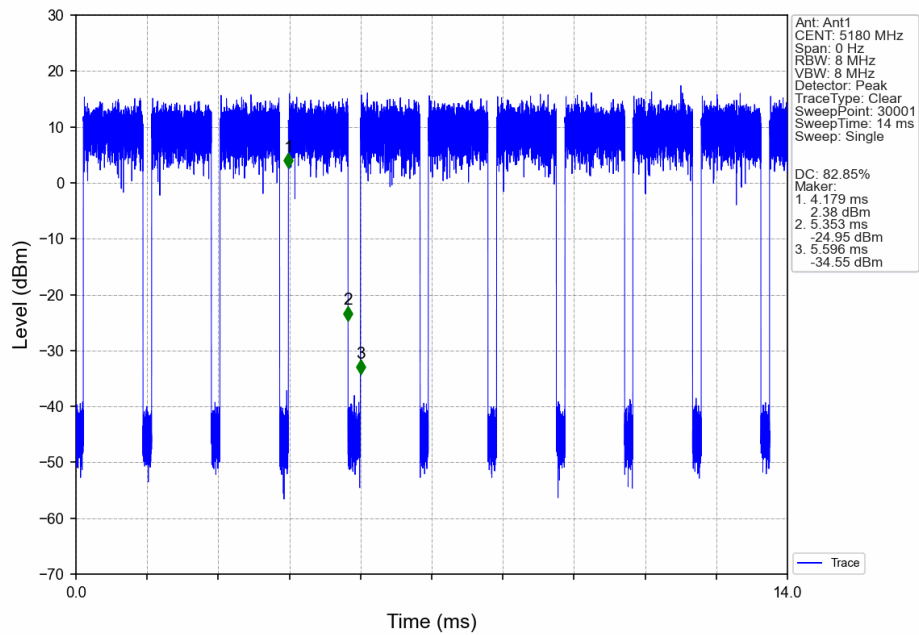
802.11a_MCH_5785MHz_Ant1_NTNV



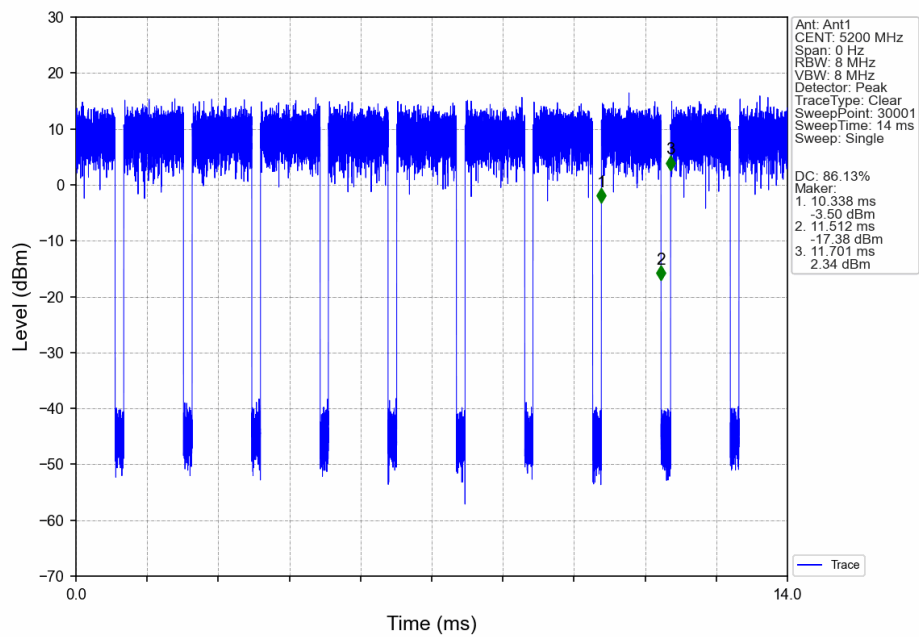
802.11a_HCH_5825MHz_Ant1_NTNV



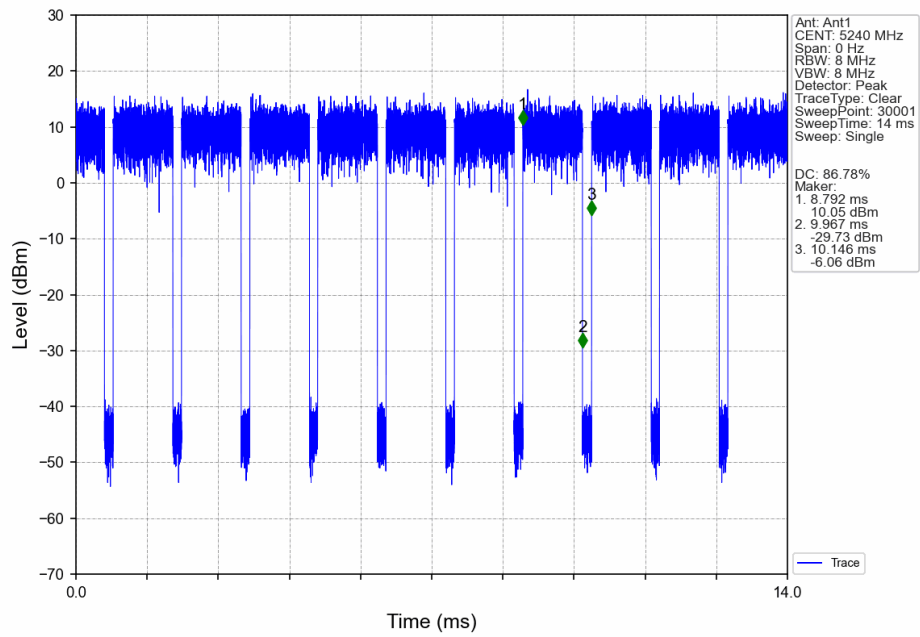
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



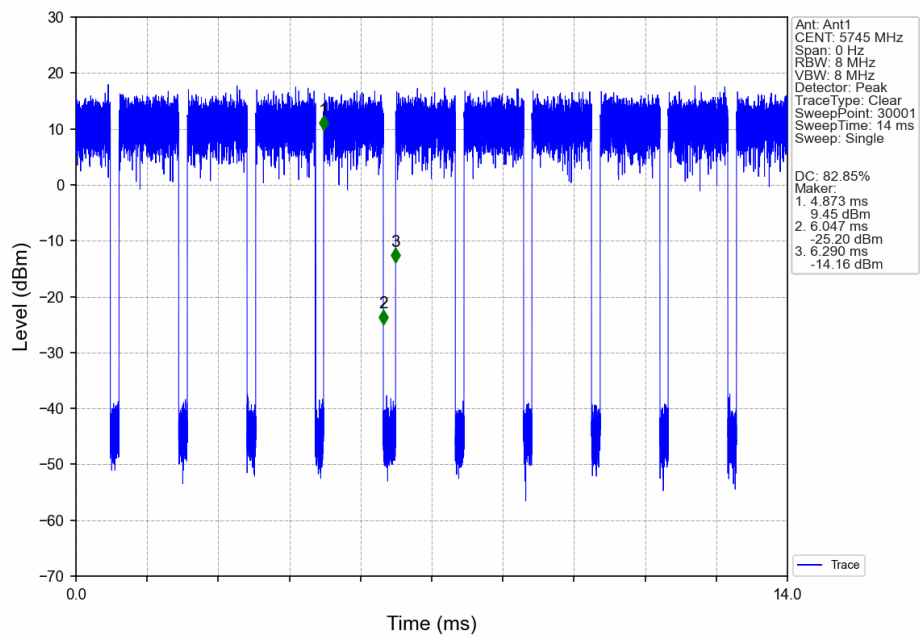
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



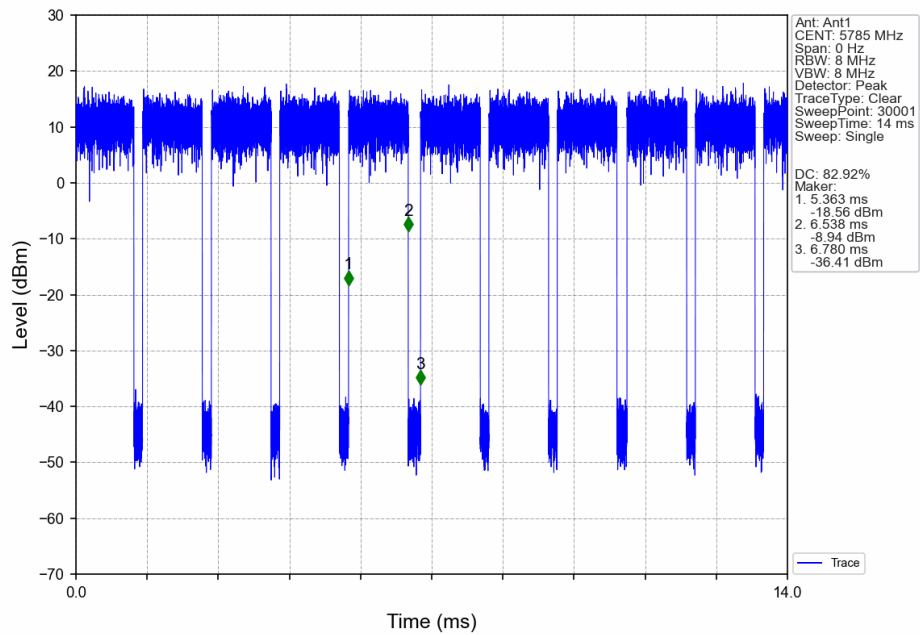
802.11n(HT20) HCH 5240MHz Ant1 NTN



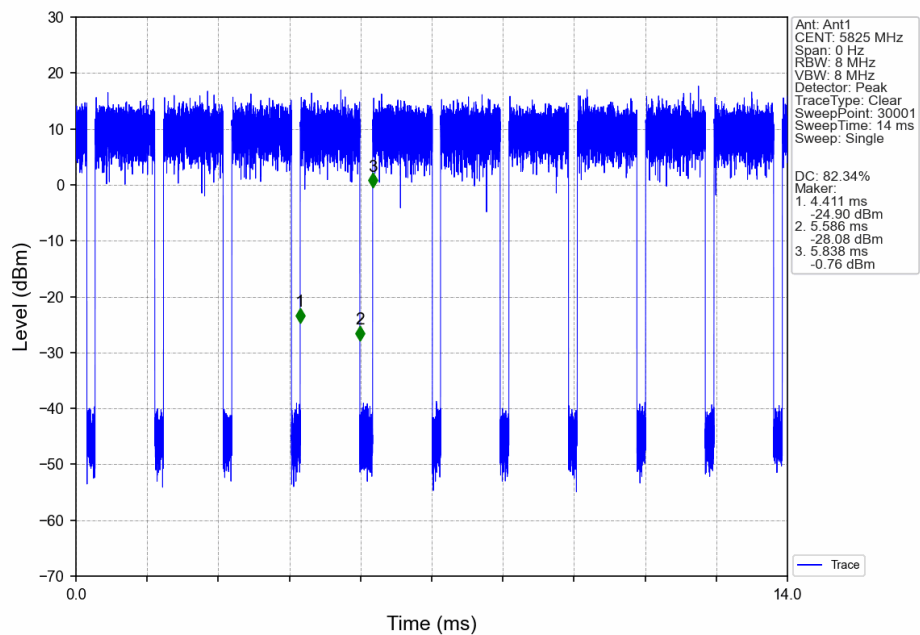
802.11n(HT20) LCH 5745MHz Ant1 NTN



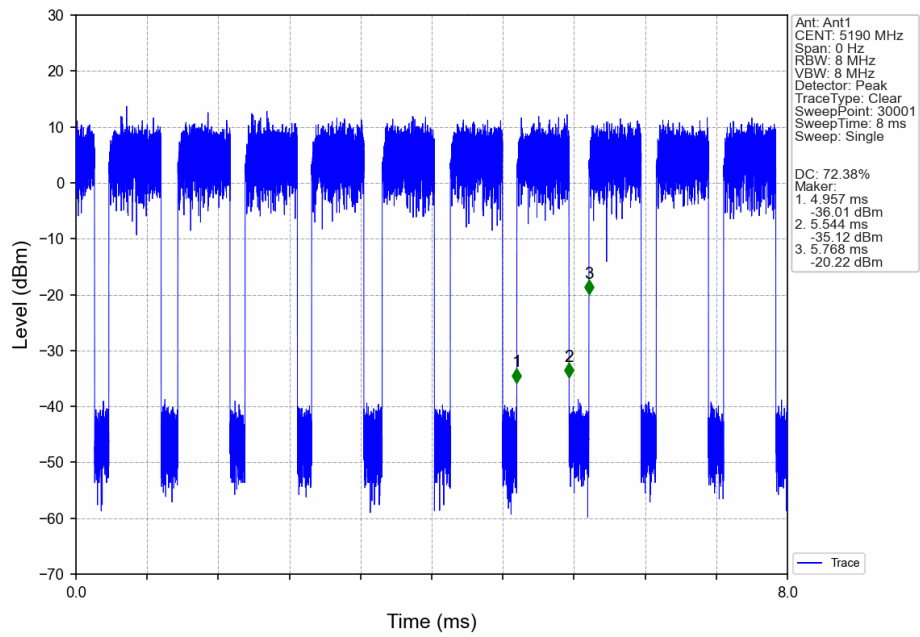
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



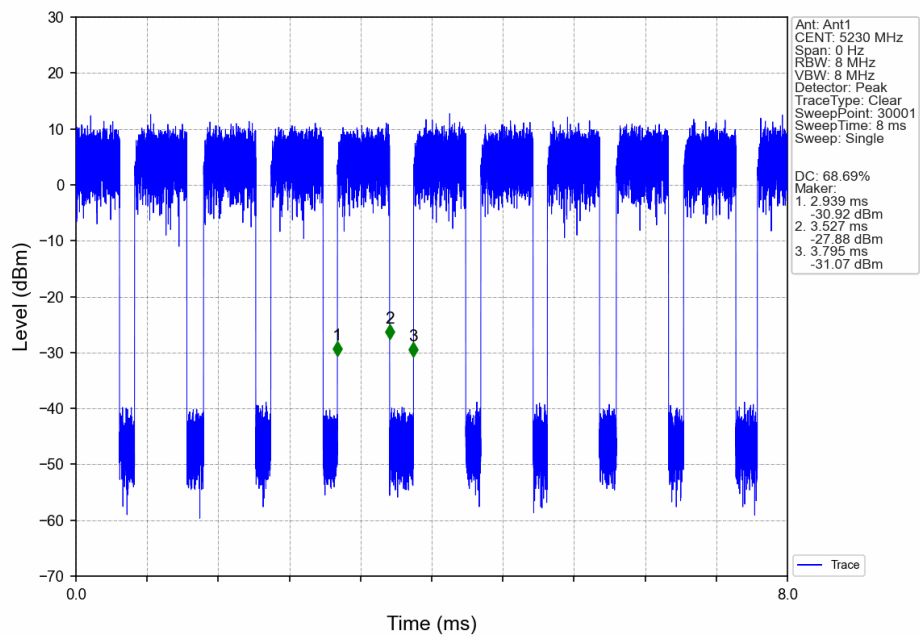
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



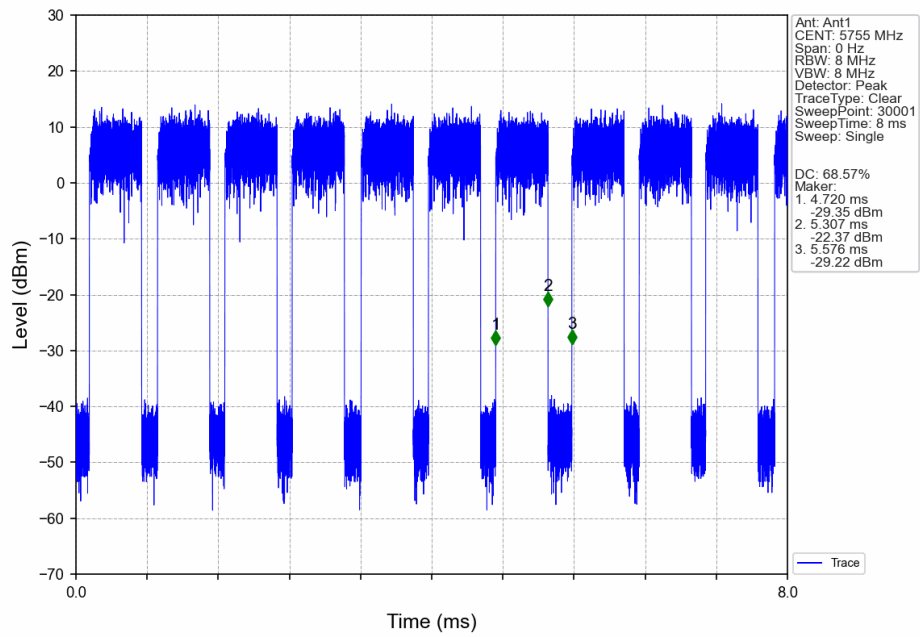
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



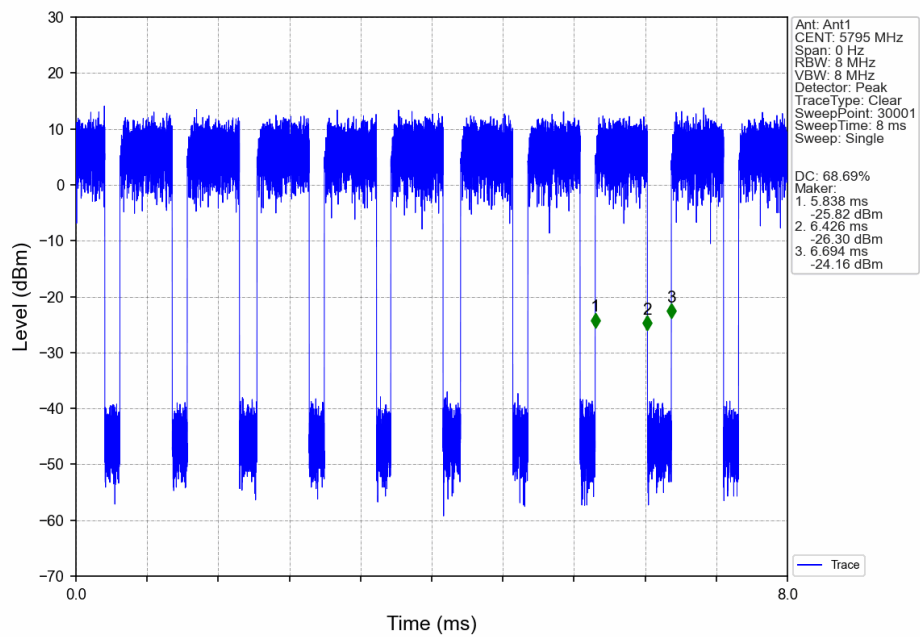
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



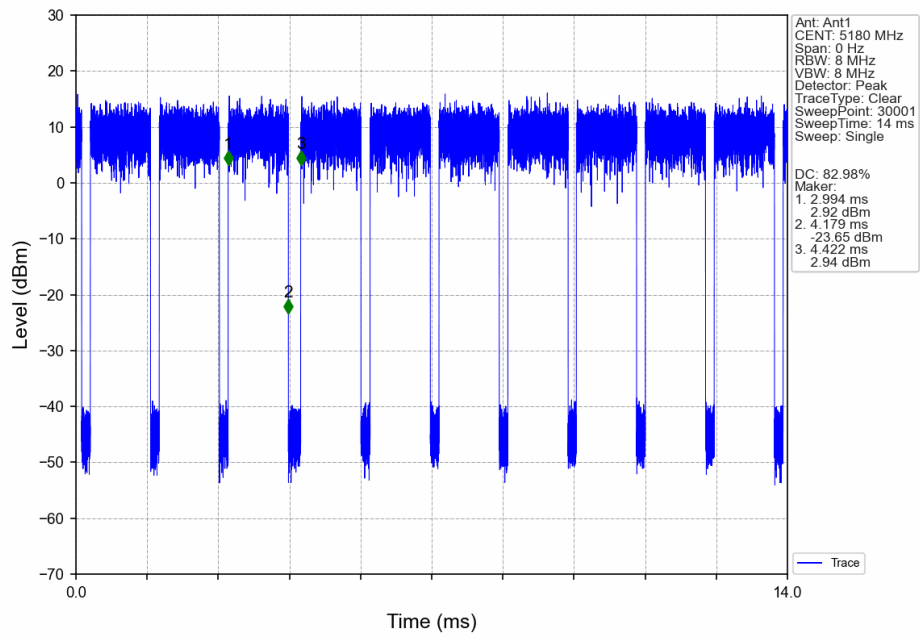
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



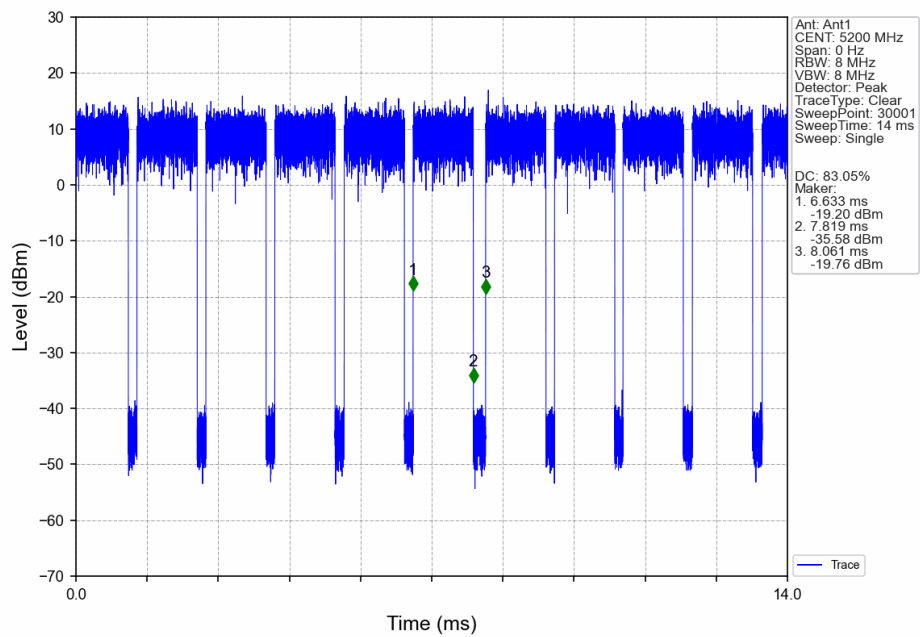
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



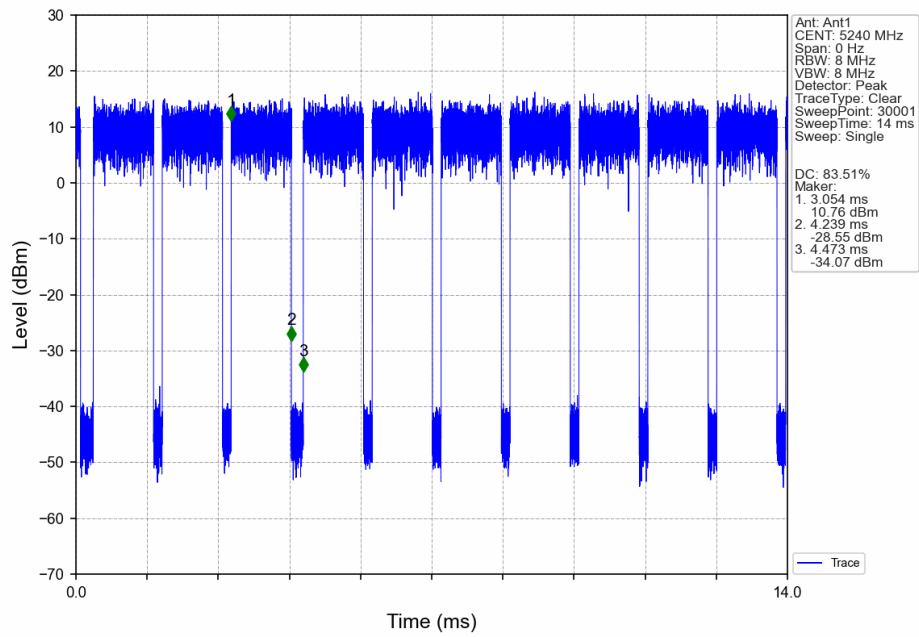
802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV



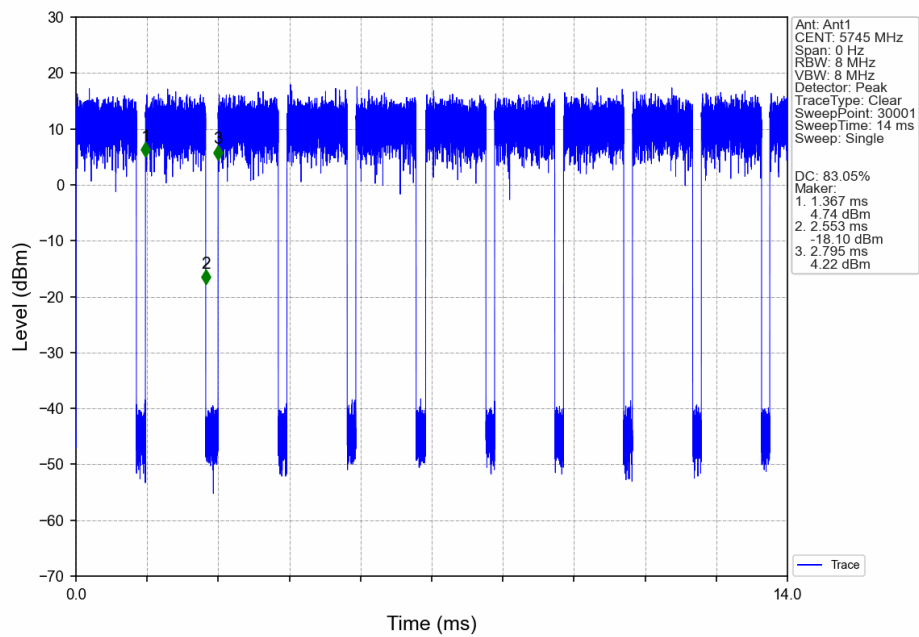
802.11ac(VHT20) MCH_5200MHz_Ant1_NTNV



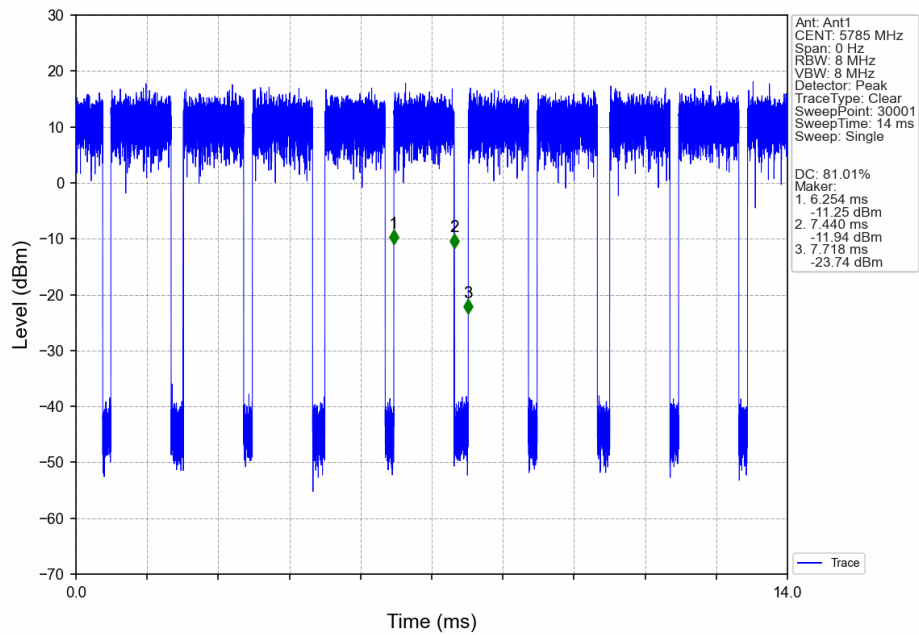
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



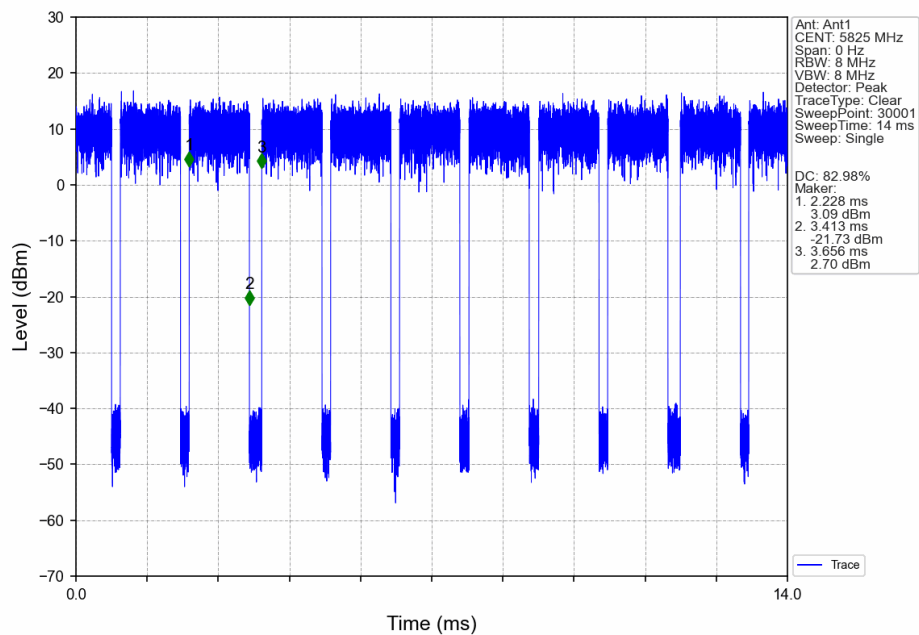
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



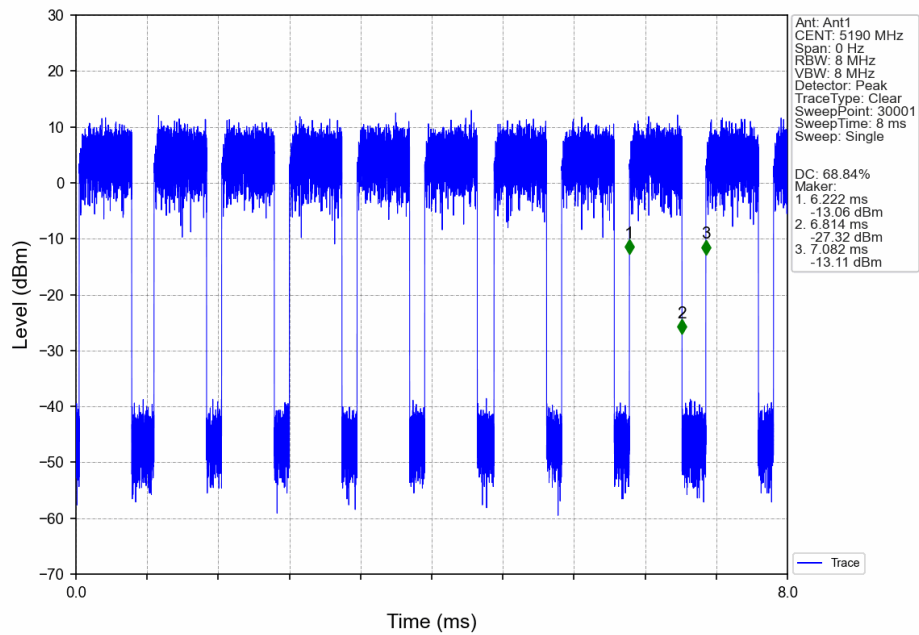
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



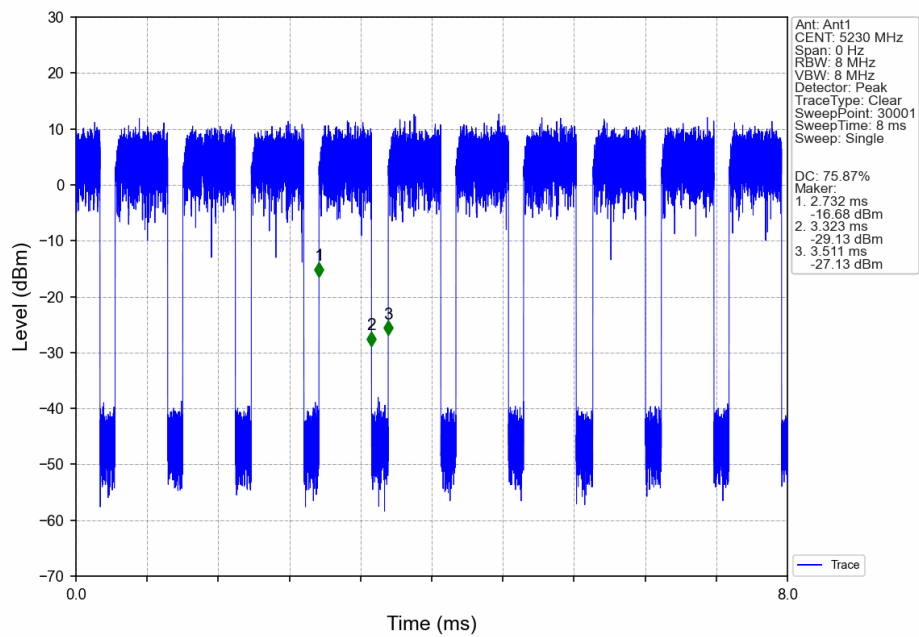
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



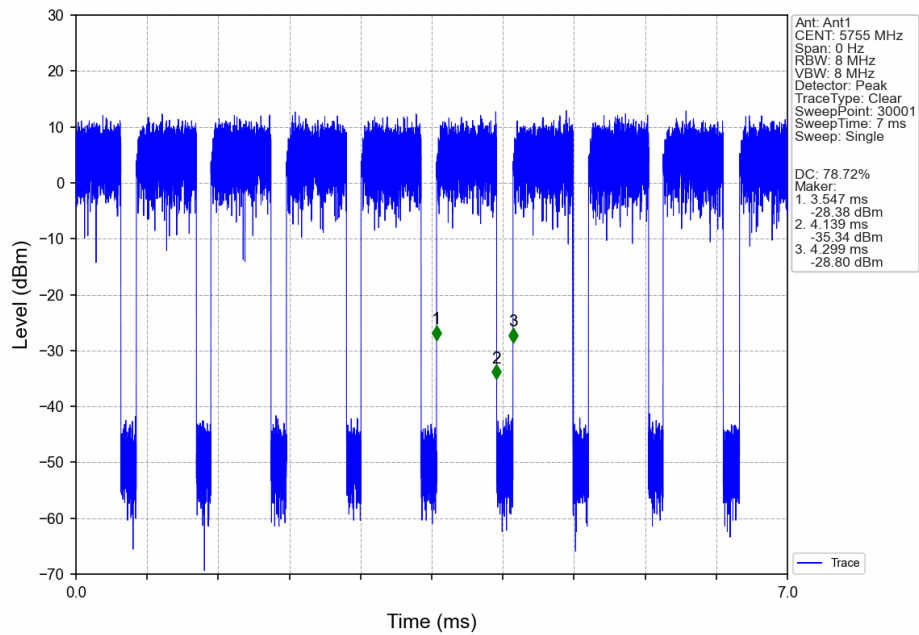
802.11ac(VHT40) LCH 5190MHz Ant1 NTN



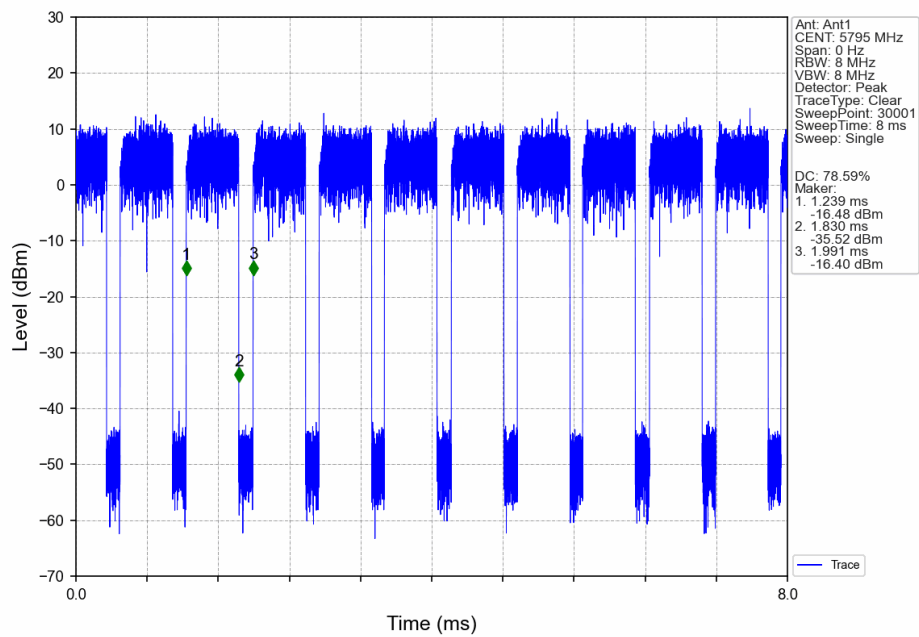
802.11ac(VHT40) HCH 5230MHz Ant1 NTN



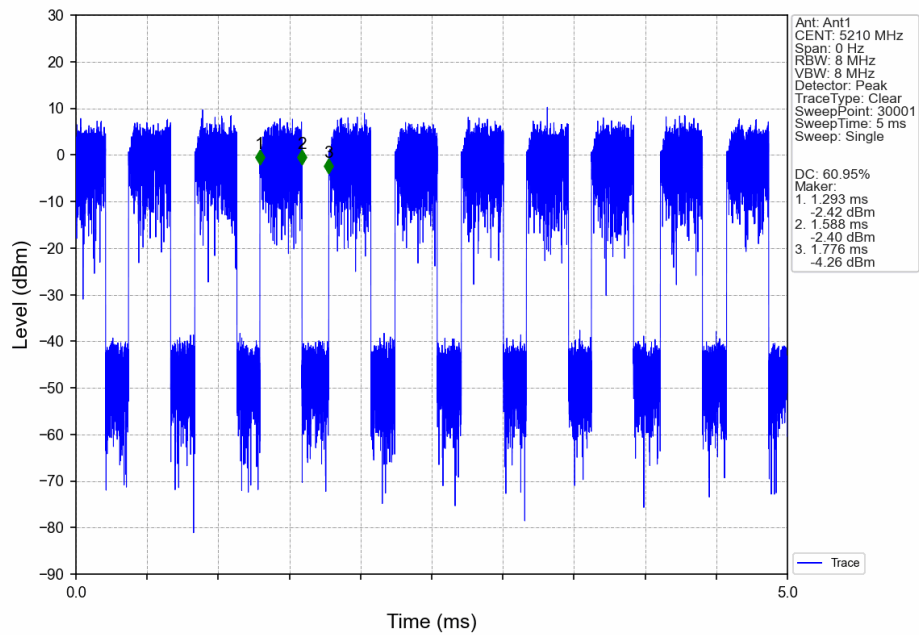
802.11ac(VHT40) LCH_5755MHz_Ant1_NTNV



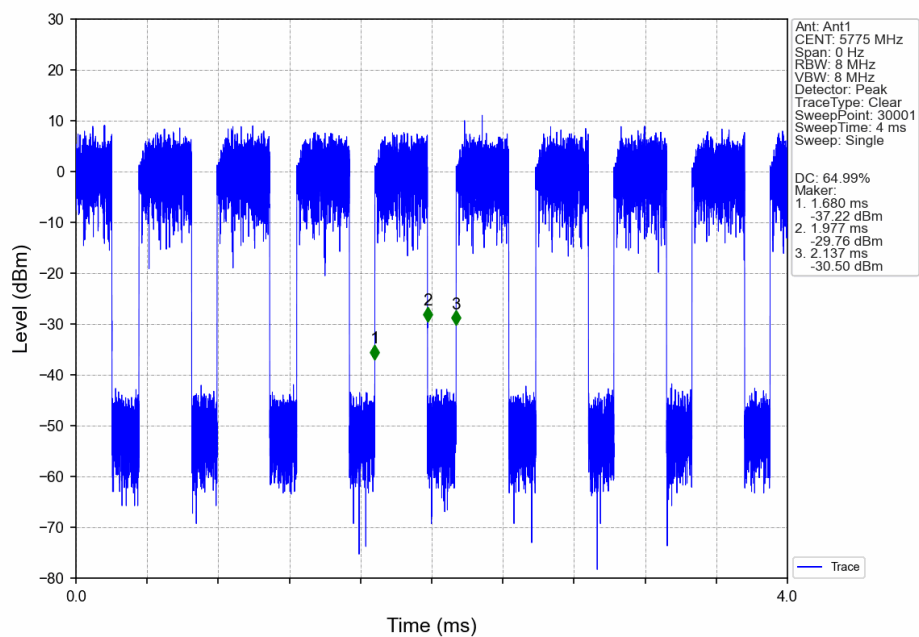
802.11ac(VHT40) HCH_5795MHz_Ant1_NTNV



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	17.895	/	Pass
		5200	1	17.981	/	Pass
		5240	1	17.916	/	Pass
		5745	1	17.873	/	Pass
		5785	1	17.845	/	Pass
		5825	1	17.961	/	Pass
802.11n (HT20)	MIMO	5180	1	19.383	/	Pass
		5200	1	19.577	/	Pass
		5240	1	19.415	/	Pass
		5745	1	19.338	/	Pass
		5785	1	19.377	/	Pass
		5825	1	19.699	/	Pass
802.11n (HT40)	MIMO	5190	1	37.906	/	Pass
		5230	1	38.226	/	Pass
		5755	1	37.716	/	Pass
		5795	1	37.872	/	Pass
802.11ac (VHT20)	MIMO	5180	1	18.376	/	Pass
		5200	1	18.336	/	Pass
		5240	1	18.374	/	Pass
		5745	1	18.299	/	Pass
		5785	1	18.340	/	Pass
		5825	1	18.380	/	Pass
802.11ac (VHT40)	MIMO	5190	1	37.585	/	Pass
		5230	1	37.887	/	Pass
		5755	1	37.519	/	Pass
		5795	1	37.709	/	Pass
802.11ac (VHT80)	MIMO	5210	1	76.165	/	Pass
		5775	1	76.026	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.403	≥ 0.5	Pass
		5785	1	16.401	≥ 0.5	Pass
		5825	1	16.394	≥ 0.5	Pass
802.11n (HT20)	MIMO	5745	1	17.428	≥ 0.5	Pass
		5785	1	17.455	≥ 0.5	Pass
		5825	1	17.257	≥ 0.5	Pass
802.11n (HT40)	MIMO	5755	1	36.085	≥ 0.5	Pass
		5795	1	36.031	≥ 0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	17.525	≥ 0.5	Pass
		5785	1	17.400	≥ 0.5	Pass
		5825	1	17.471	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	36.290	≥ 0.5	Pass
		5795	1	36.134	≥ 0.5	Pass

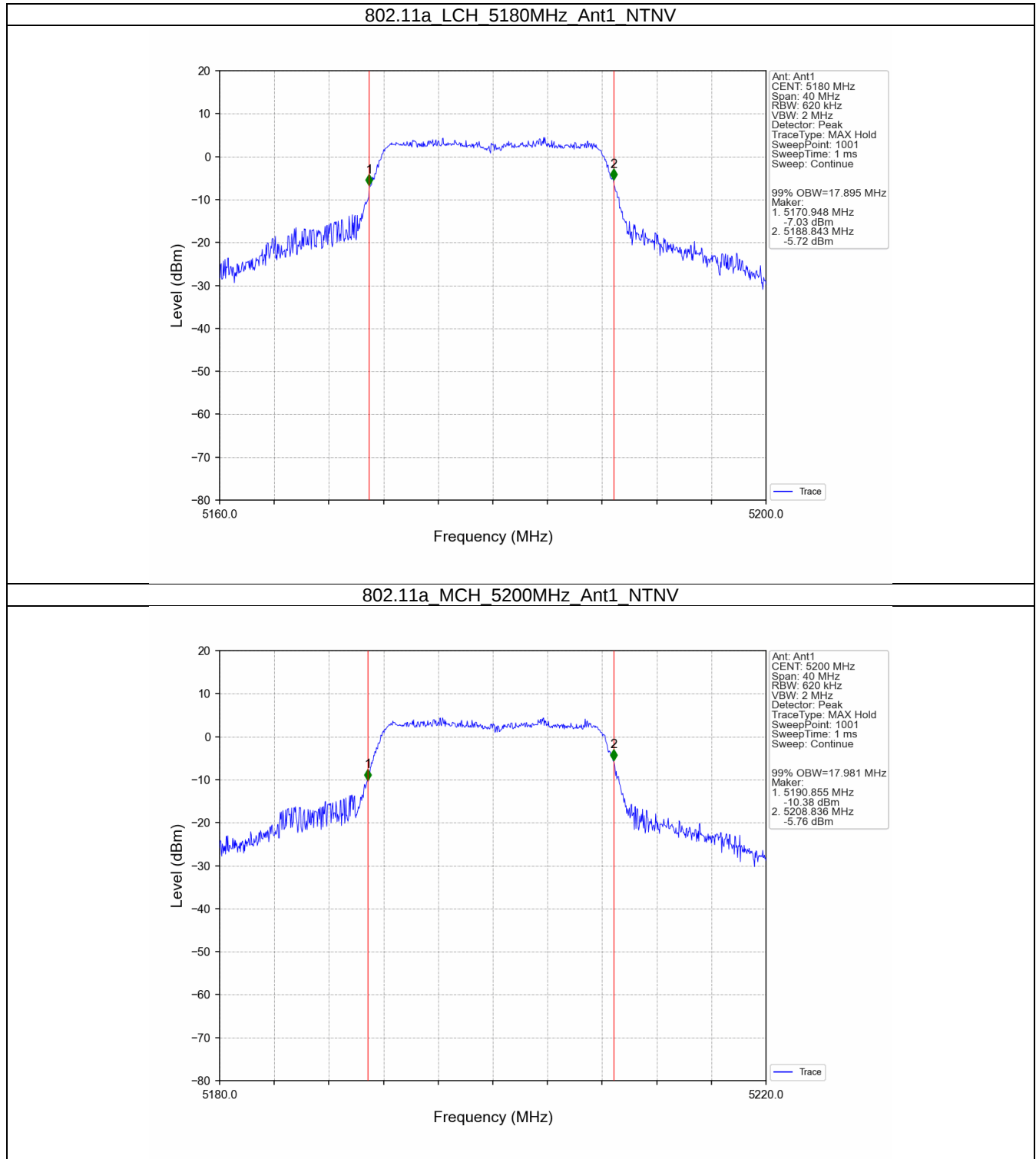
802.11ac (VHT80)	MIMO	5775	1	75.582	≥ 0.5	Pass
---------------------	------	------	---	--------	------------	------

2.1.3 26dB BW

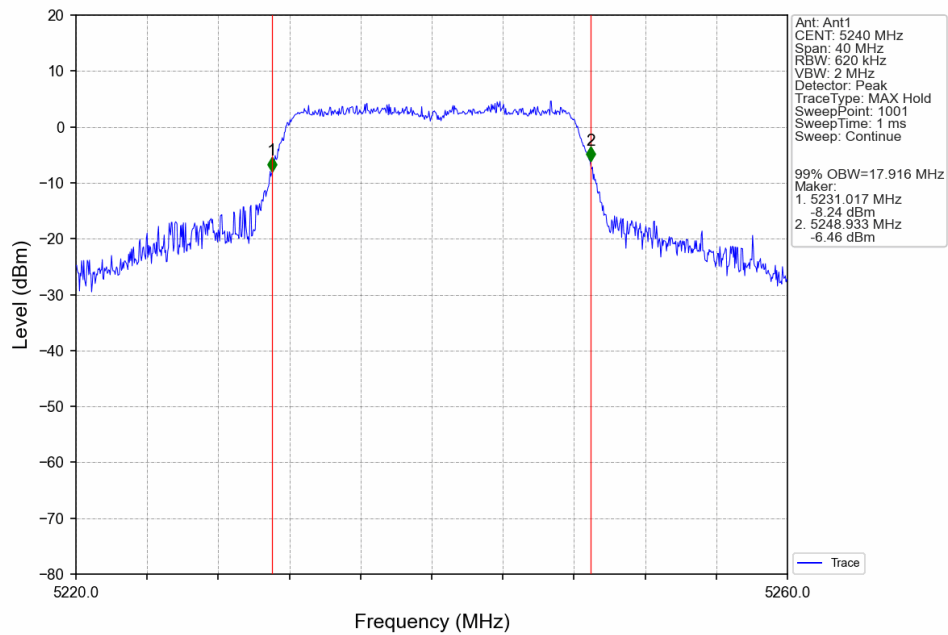
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	26.753	/	Pass
		5200	1	26.298	/	Pass
		5240	1	28.328	/	Pass
802.11n (HT20)	MIMO	5180	1	28.122	/	Pass
		5200	1	28.411	/	Pass
		5240	1	30.403	/	Pass
802.11n (HT40)	MIMO	5190	1	58.914	/	Pass
		5230	1	58.781	/	Pass
802.11ac (VHT20)	MIMO	5180	1	31.145	/	Pass
		5200	1	28.269	/	Pass
		5240	1	31.114	/	Pass
802.11ac (VHT40)	MIMO	5190	1	62.473	/	Pass
		5230	1	62.683	/	Pass
802.11ac (VHT80)	MIMO	5210	1	82.889	/	Pass

2.2 Test Graph

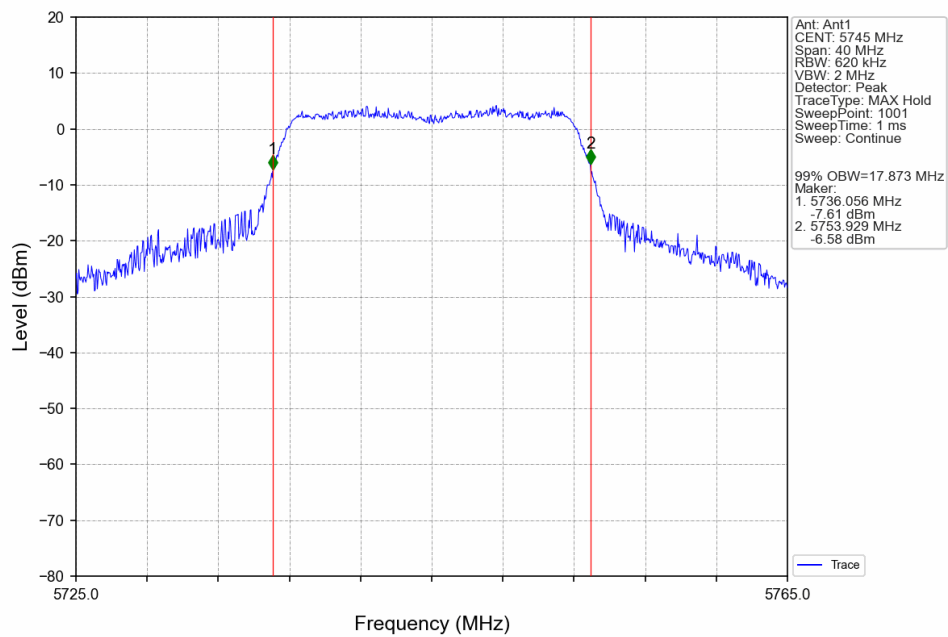
2.2.1 OBW



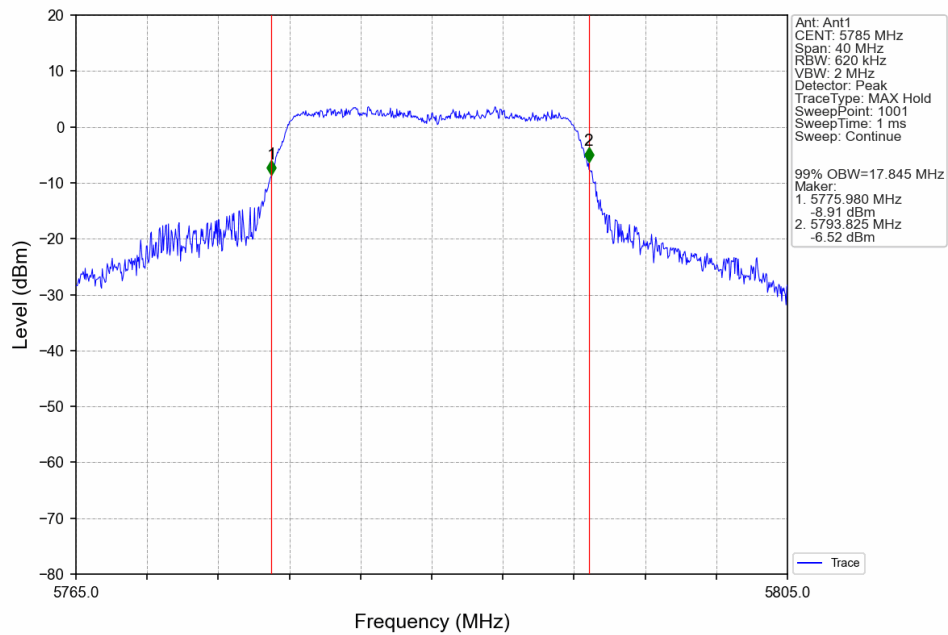
802.11a_HCH_5240MHz_Ant1_NTNV



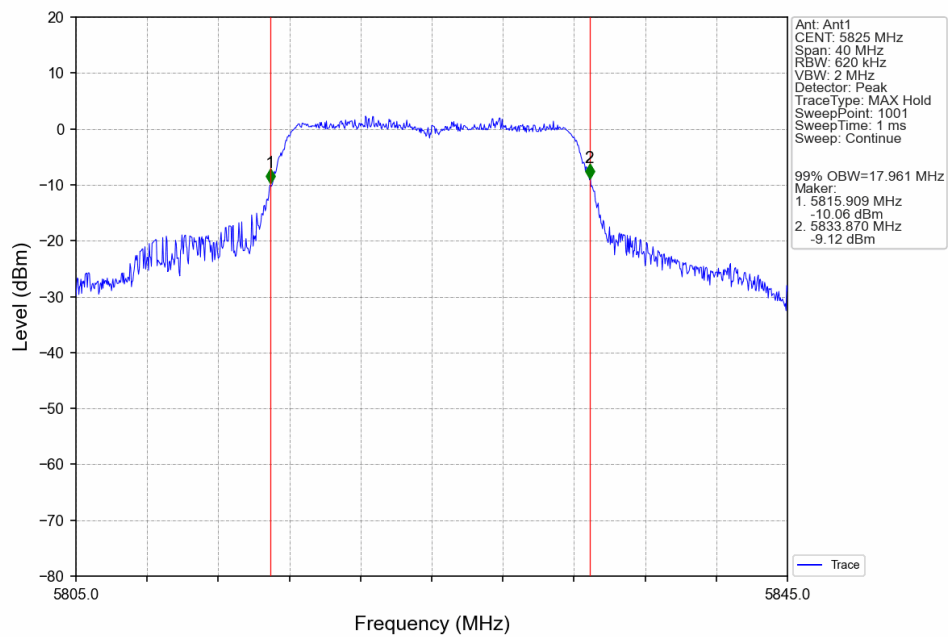
802.11a_LCH_5745MHz_Ant1_NTNV



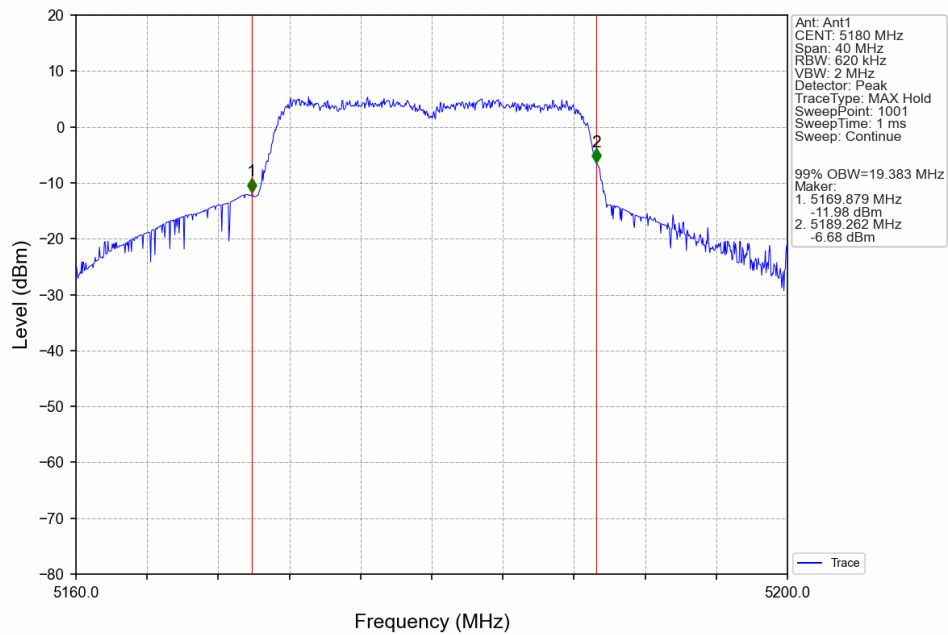
802.11a_MCH_5785MHz_Ant1_NTNV



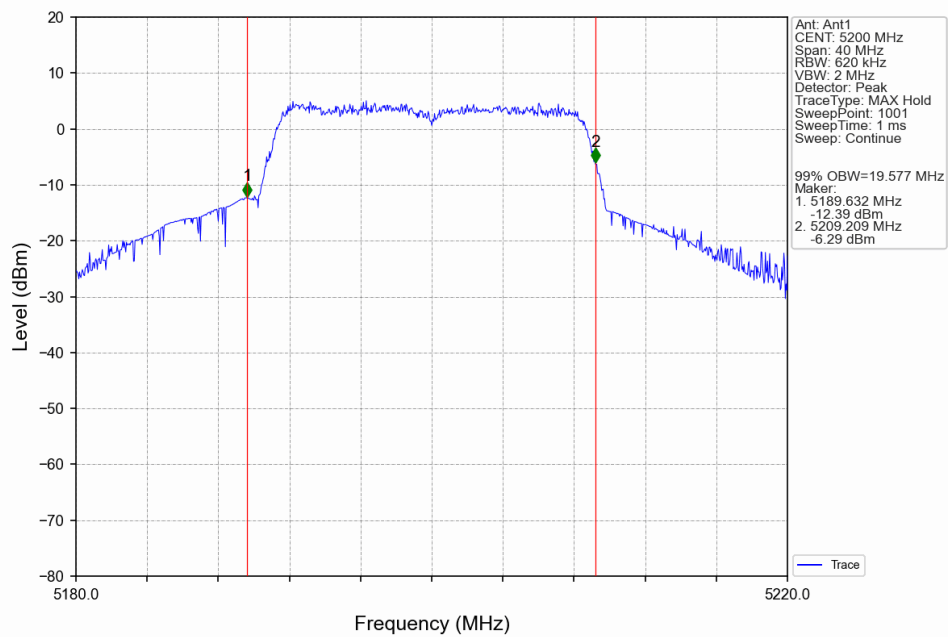
802.11a_HCH_5825MHz_Ant1_NTNV



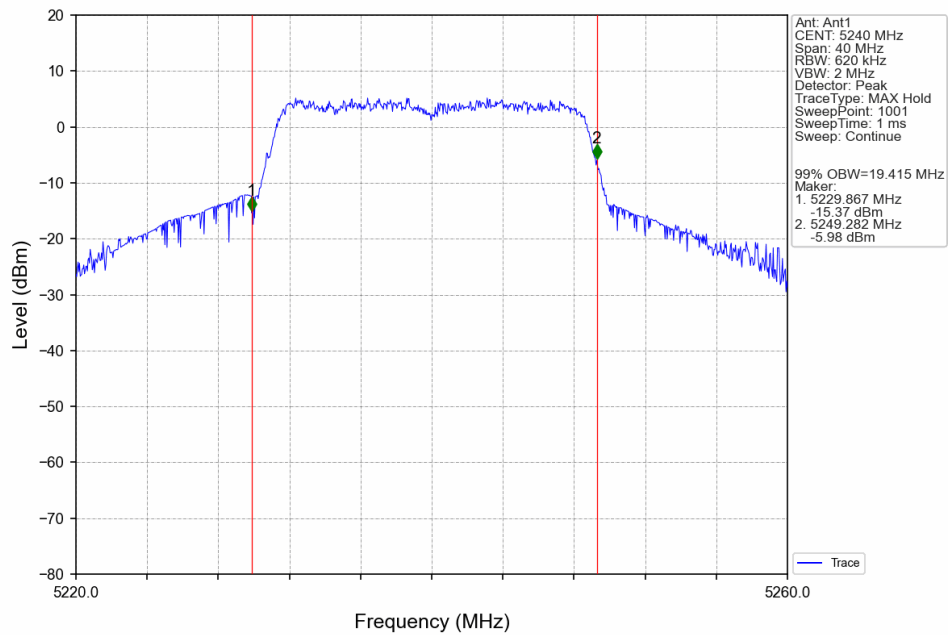
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



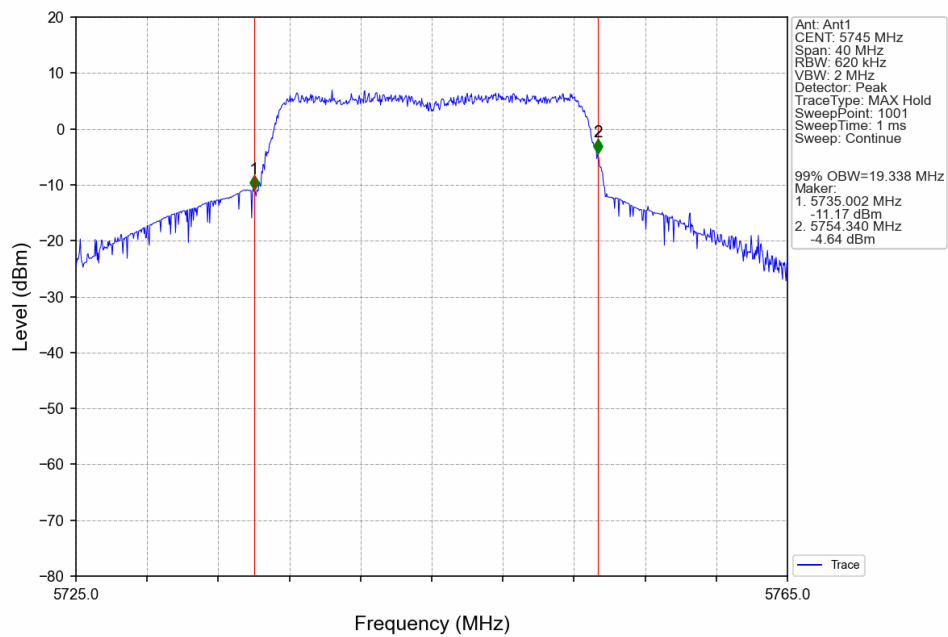
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



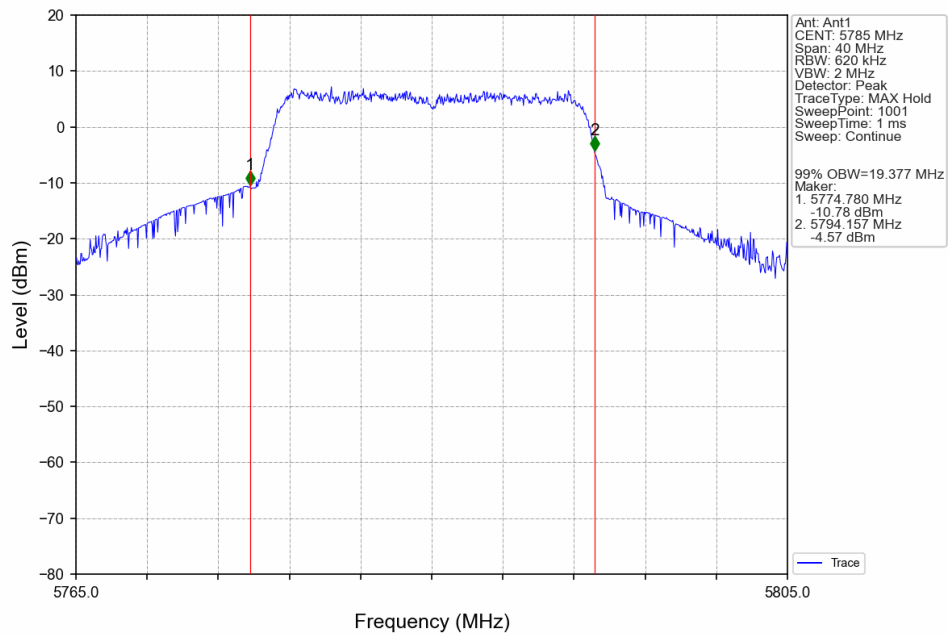
802.11n(HT20) HCH 5240MHz Ant1 NTN



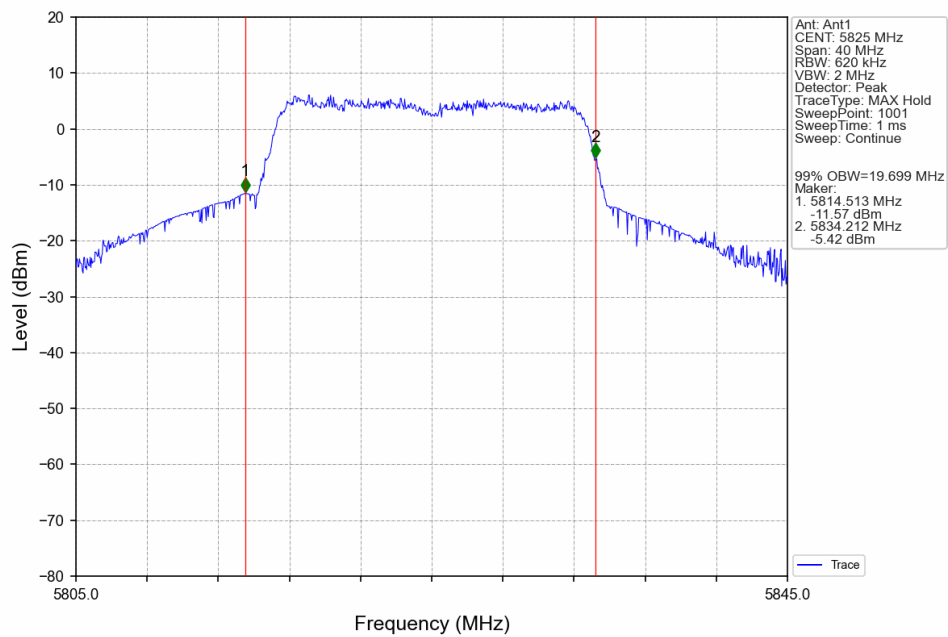
802.11n(HT20) LCH 5745MHz Ant1 NTN



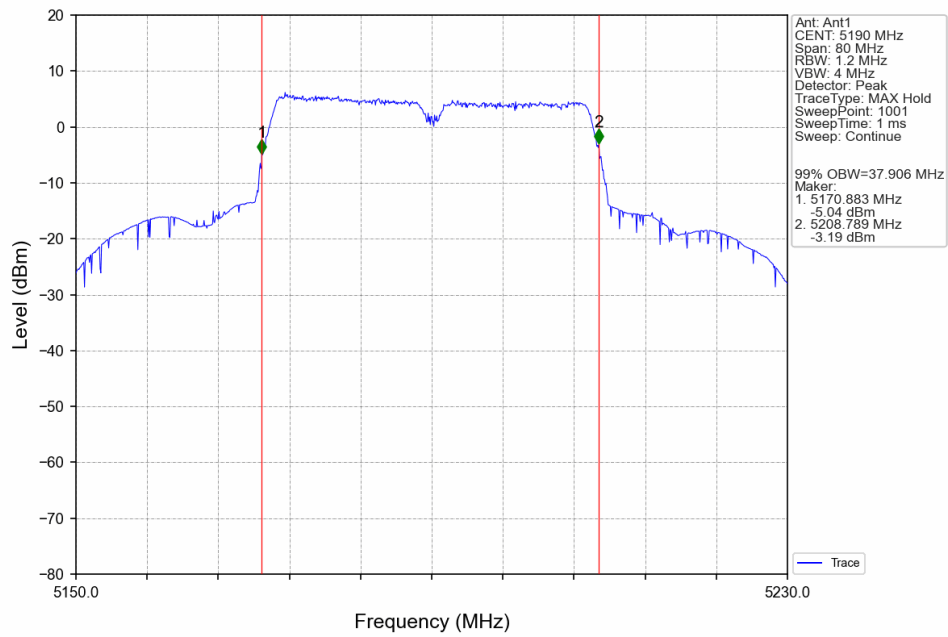
802.11n(HT20) MCH 5785MHz Ant1_NTNV



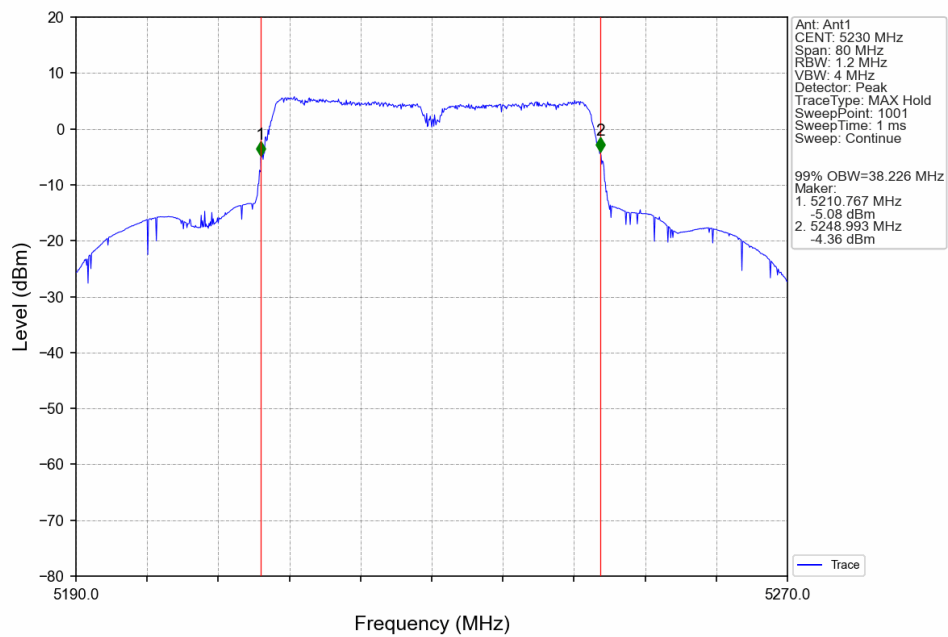
802.11n(HT20) HCH 5825MHz Ant1_NTNV



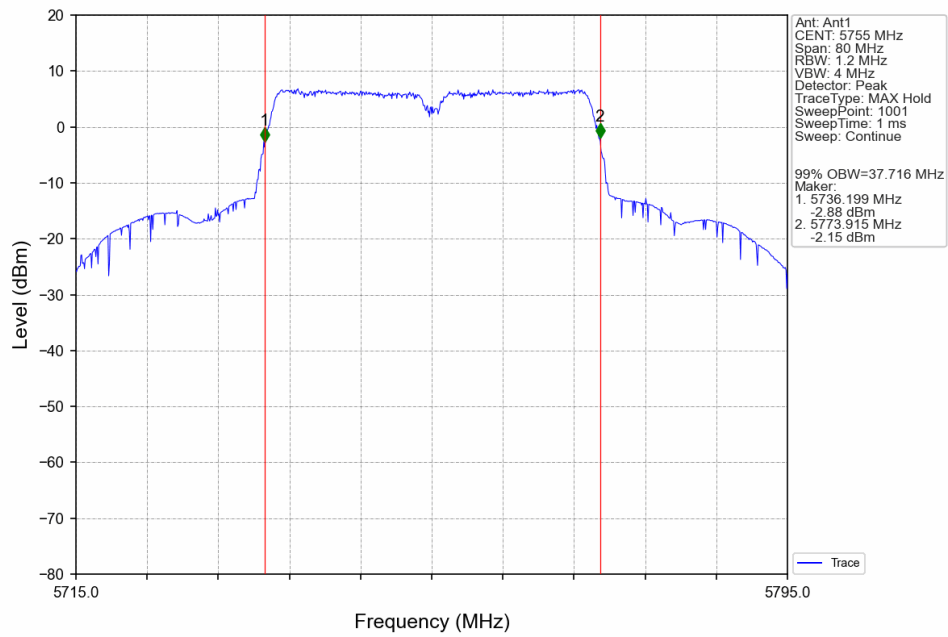
802.11n(HT40) LCH 5190MHz Ant1 NTN



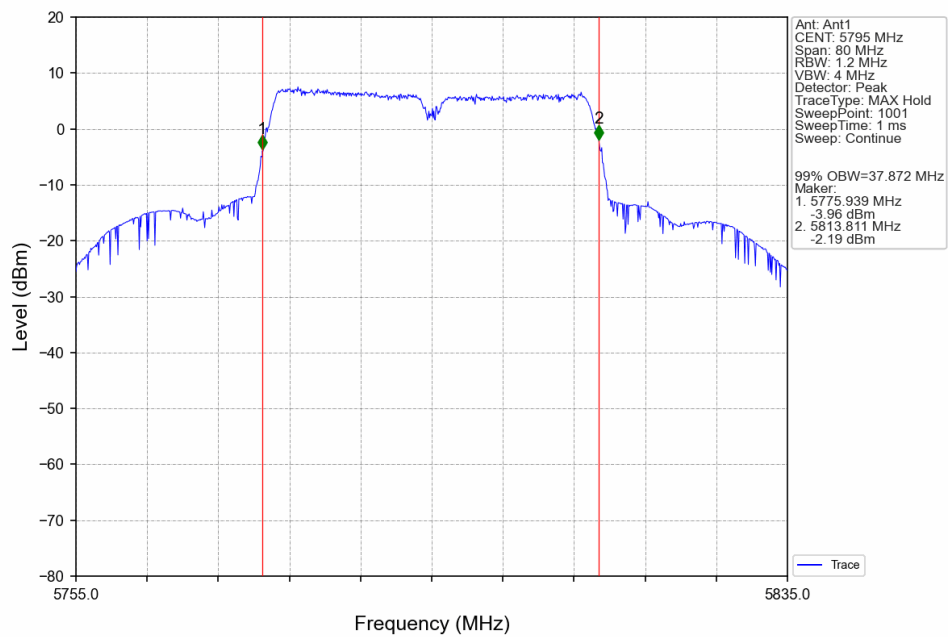
802.11n(HT40) HCH 5230MHz Ant1 NTN



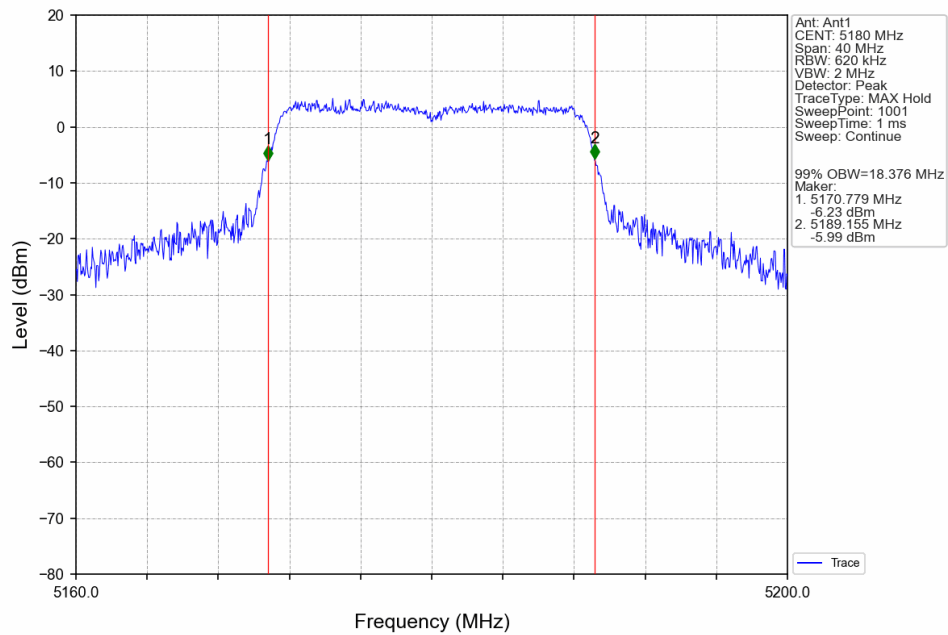
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



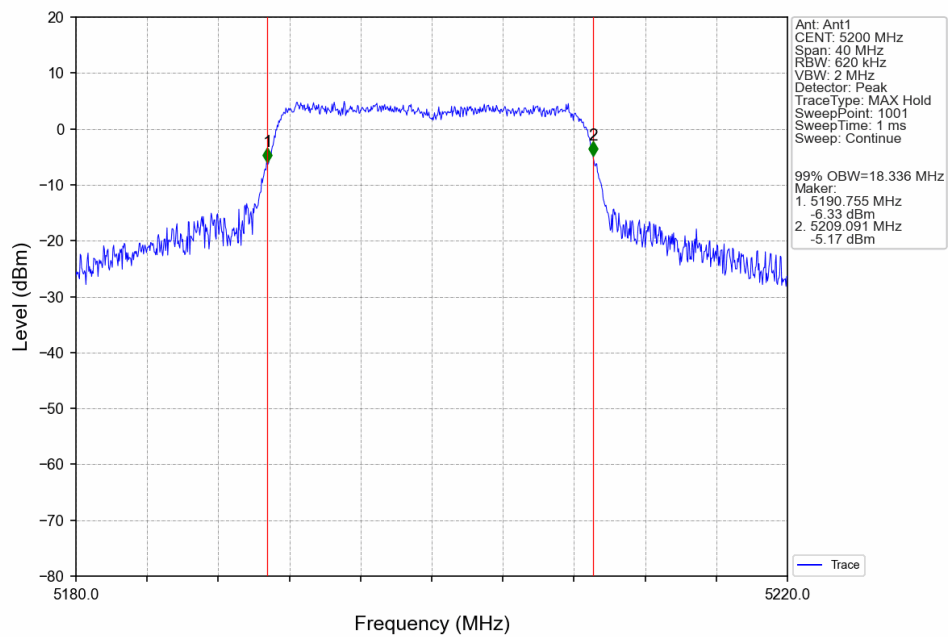
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



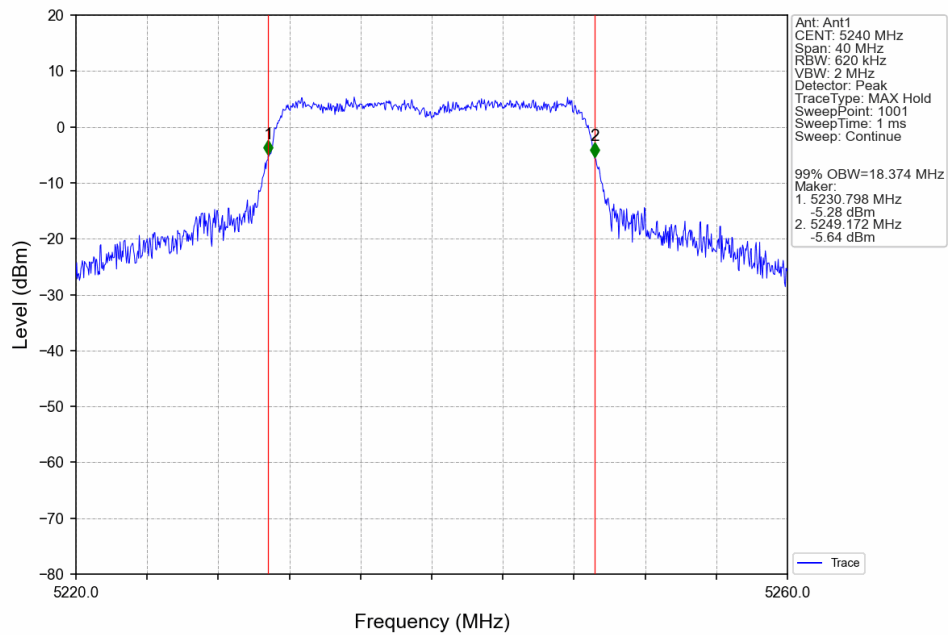
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



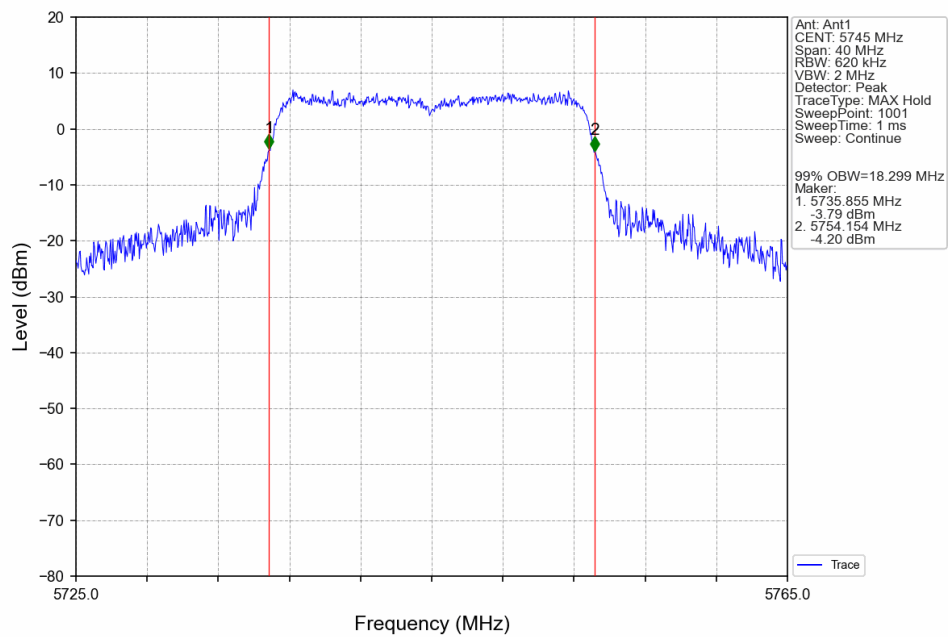
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



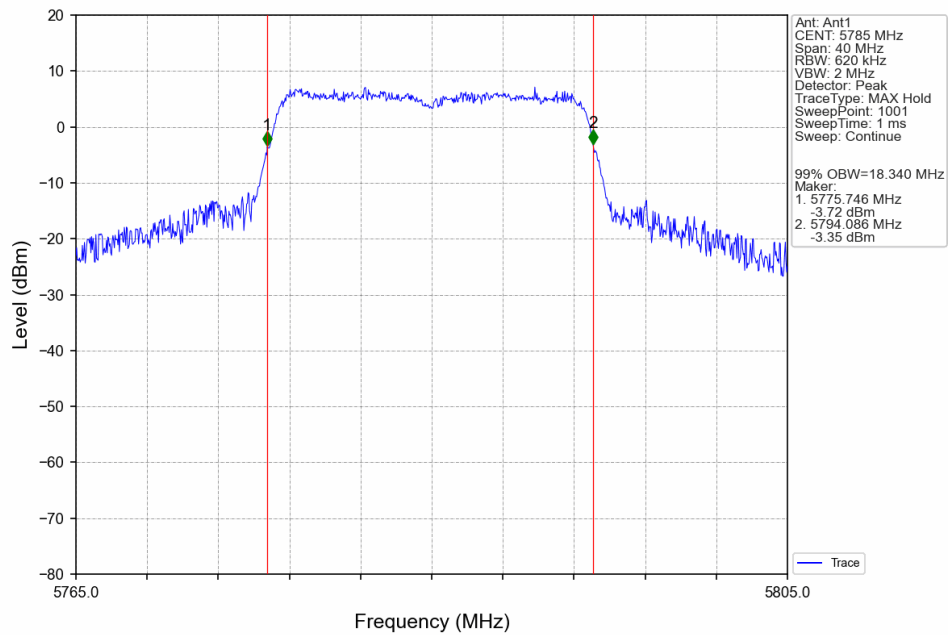
802.11ac(VHT20) HCH 5240MHz Ant1_NTNV



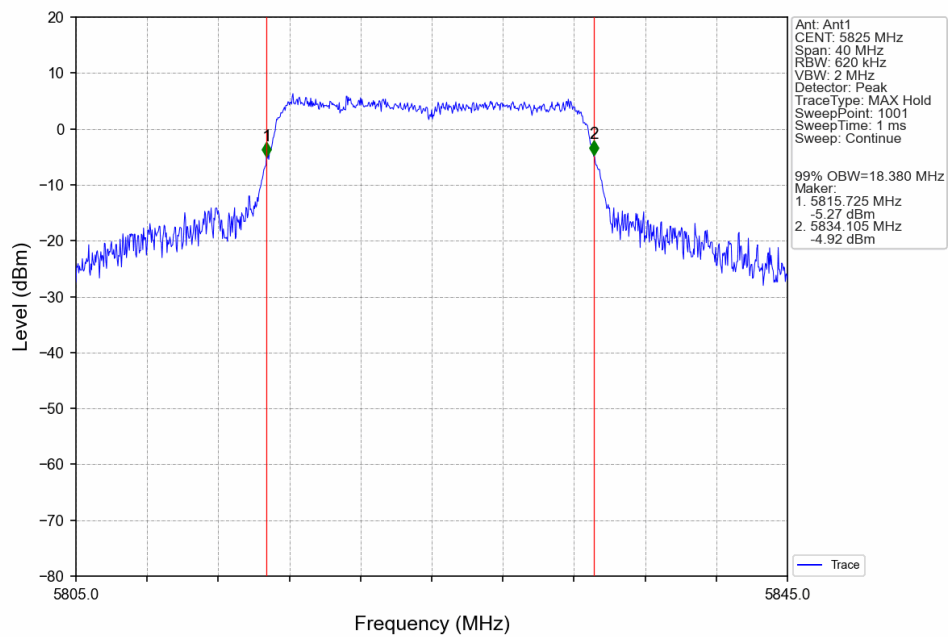
802.11ac(VHT20) LCH 5745MHz Ant1_NTNV



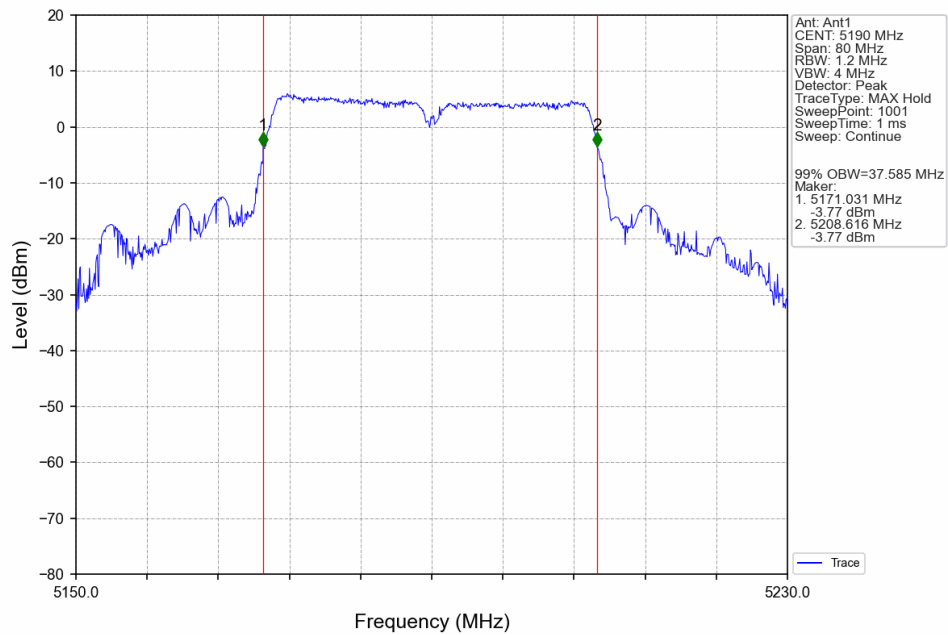
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



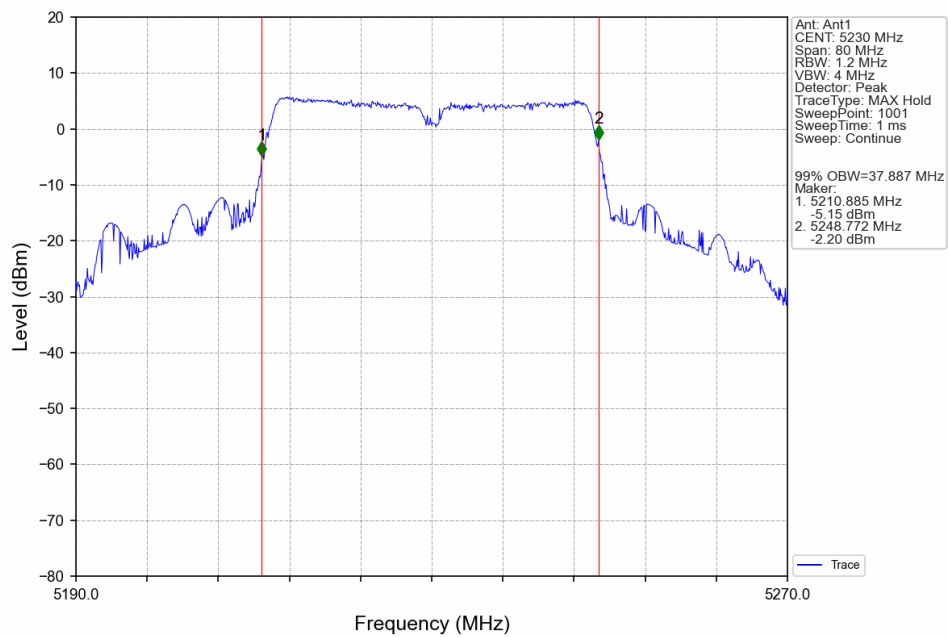
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



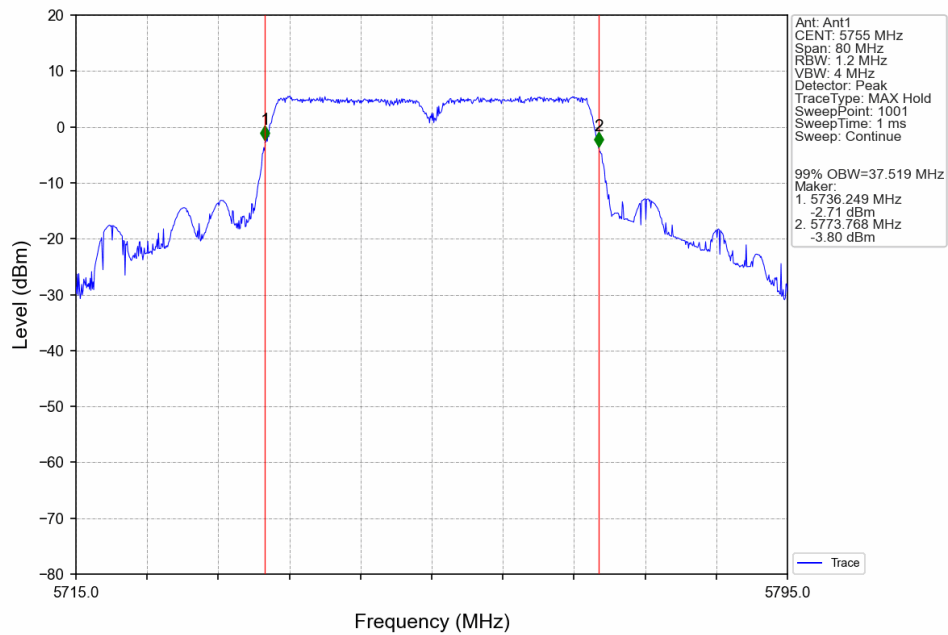
802.11ac(VHT40) LCH 5190MHz Ant1 NTN



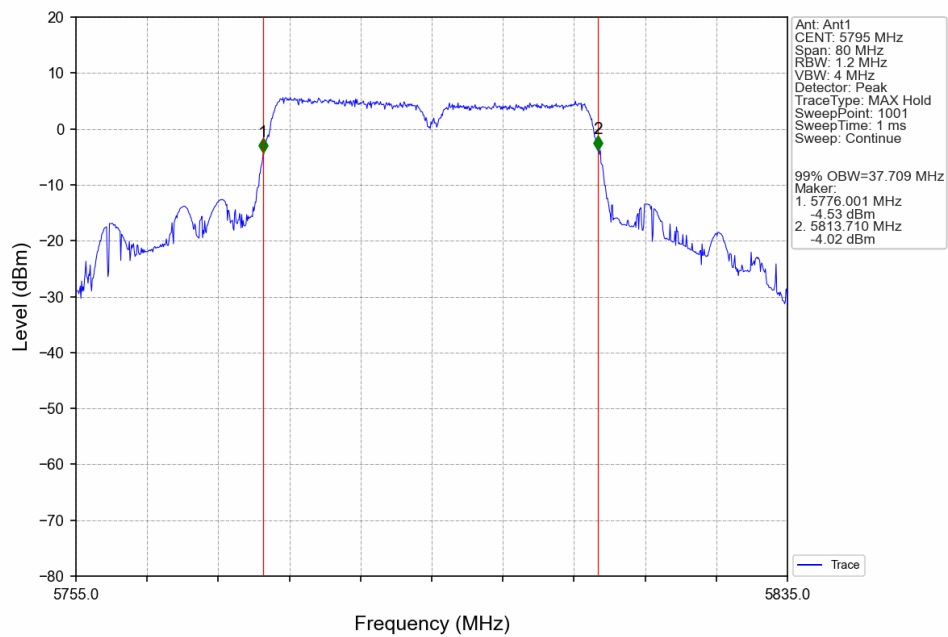
802.11ac(VHT40) HCH 5230MHz Ant1 NTN



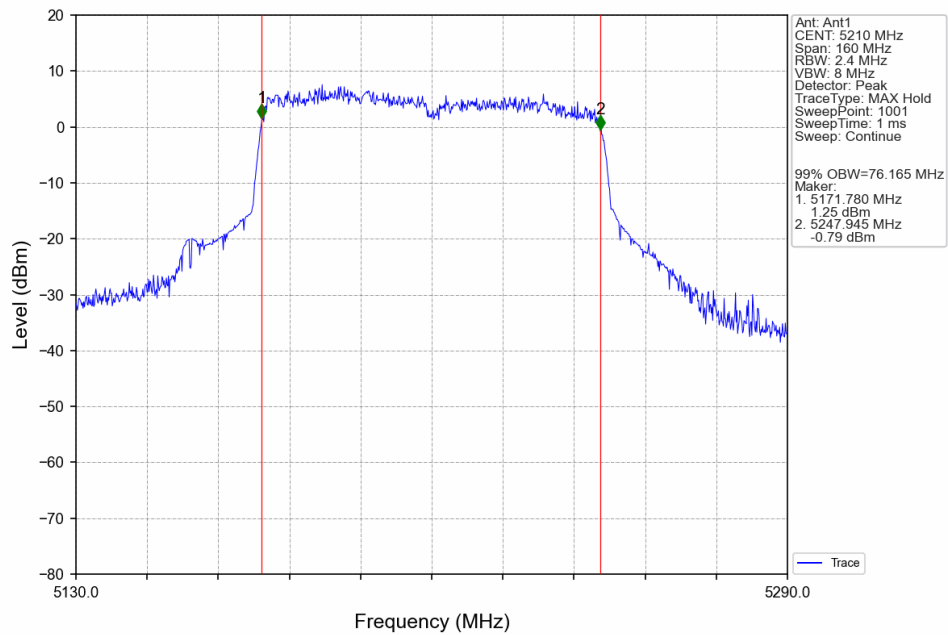
802.11ac(VHT40) LCH_5755MHz_Ant1_NTNV



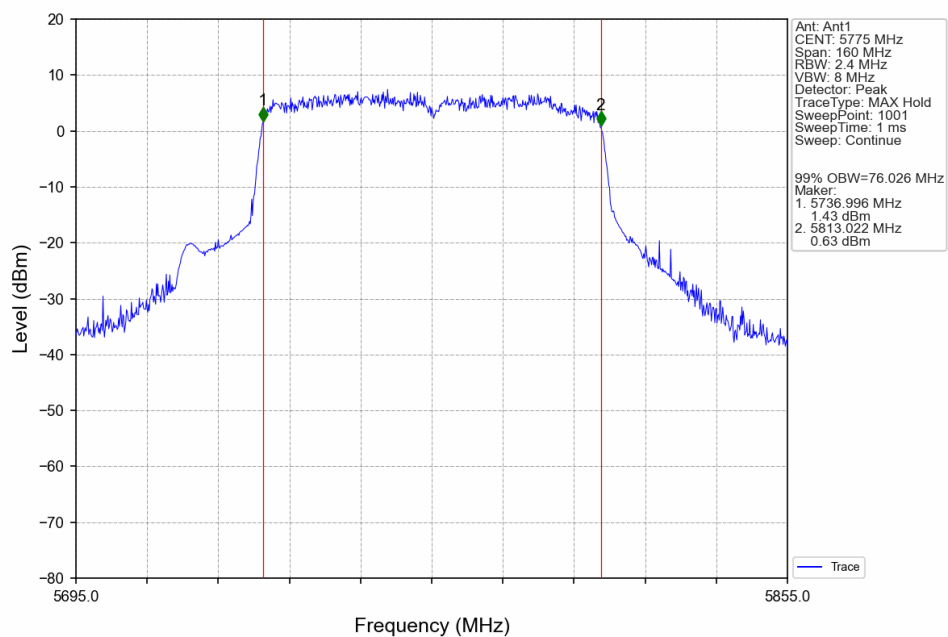
802.11ac(VHT40) HCH_5795MHz_Ant1_NTNV



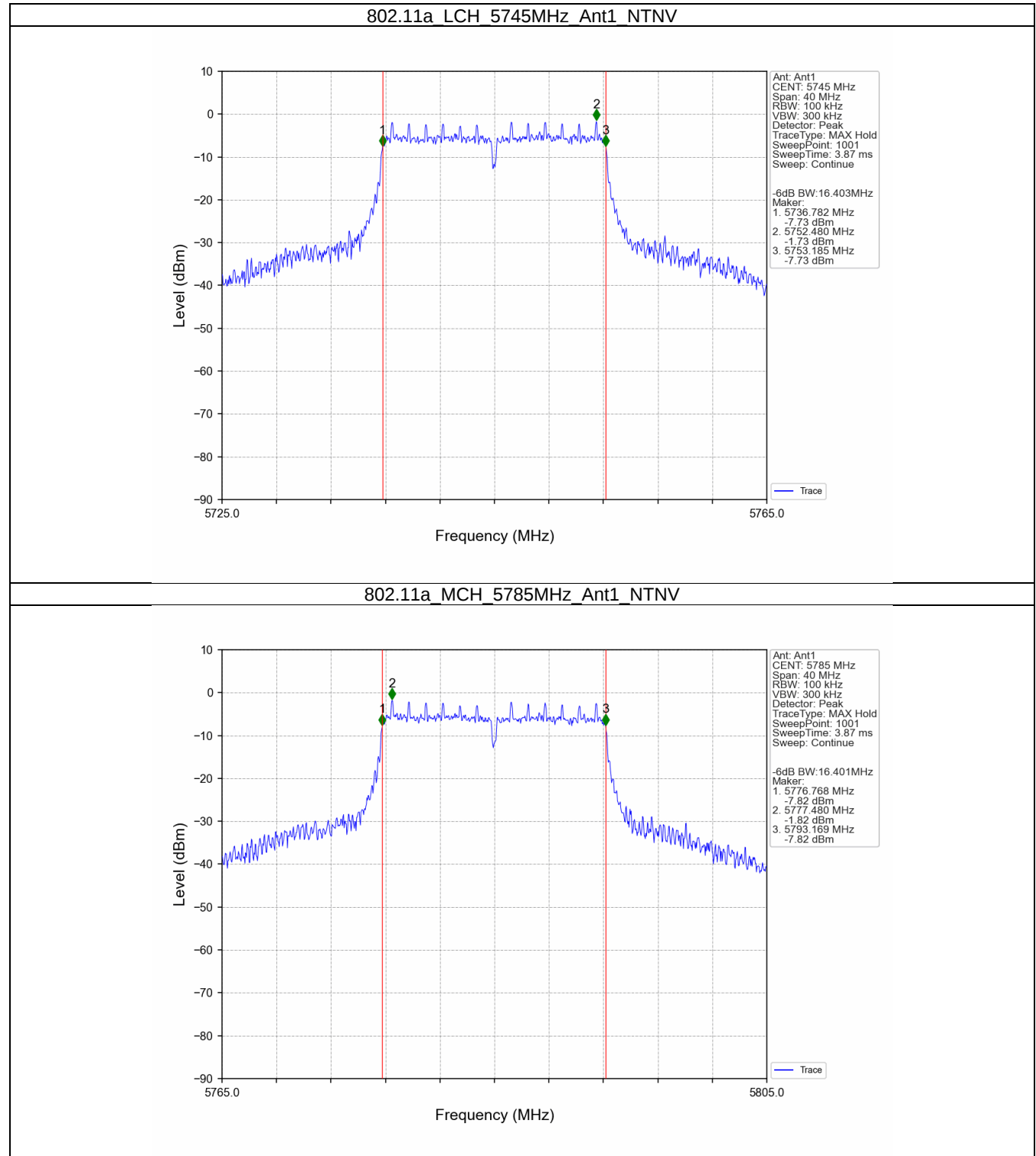
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



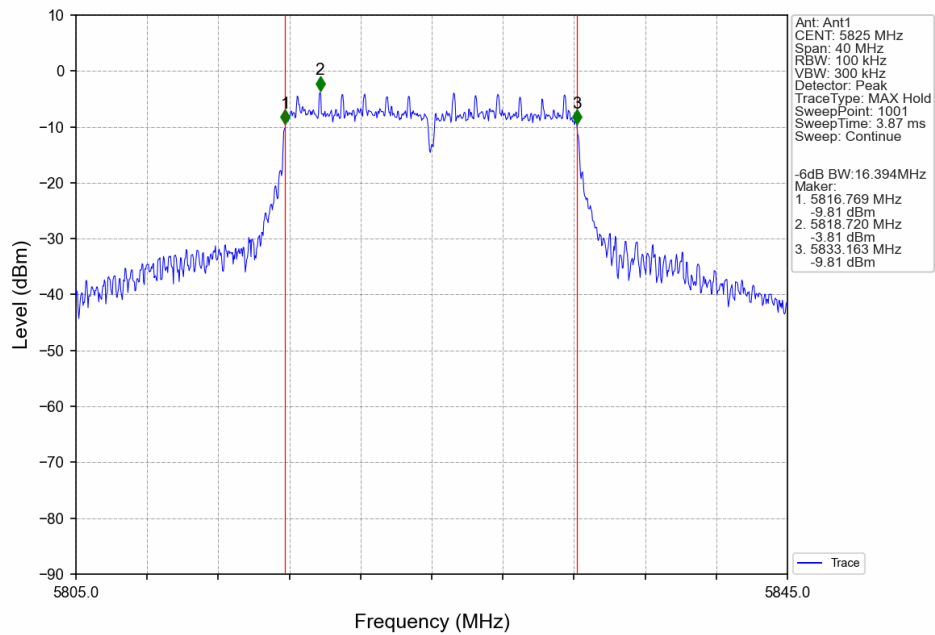
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



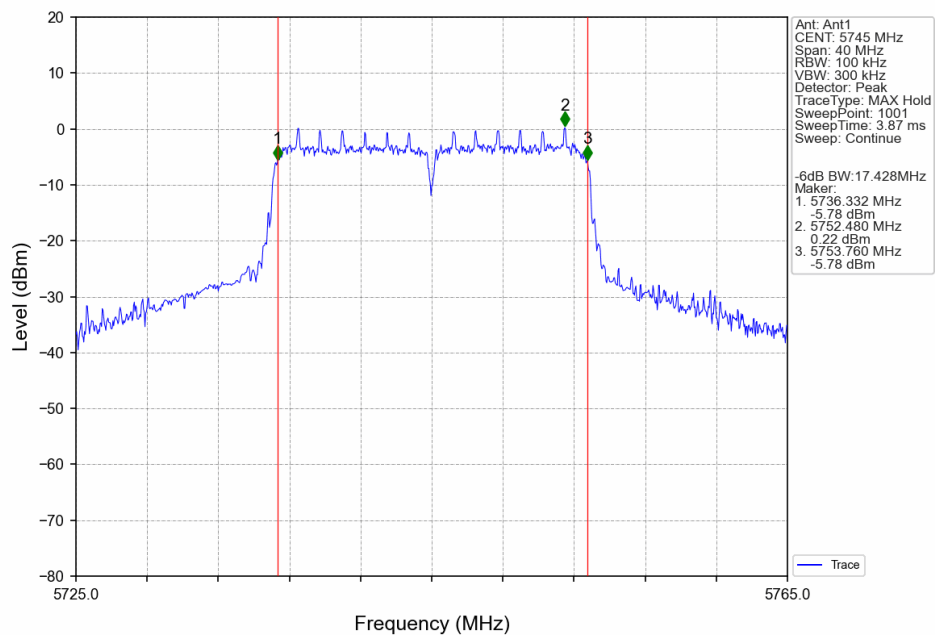
2.2.2 6dB BW



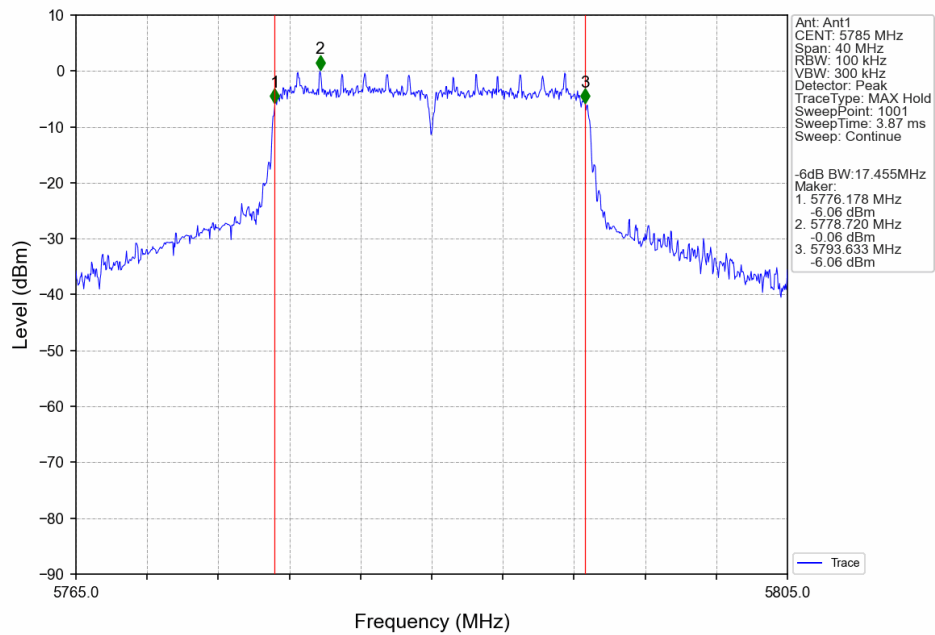
802.11a_HCH_5825MHz_Ant1_NTNV



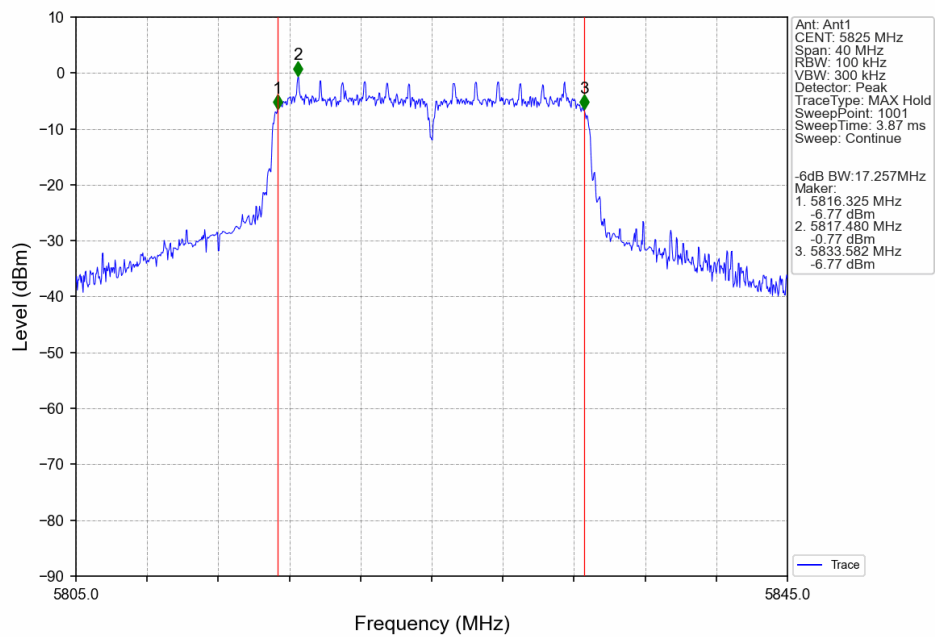
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



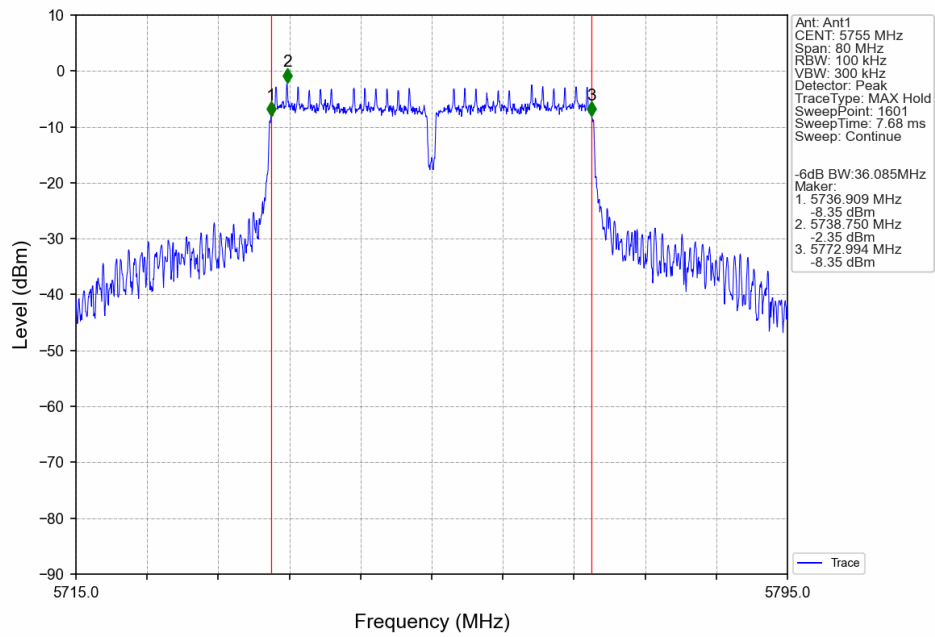
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



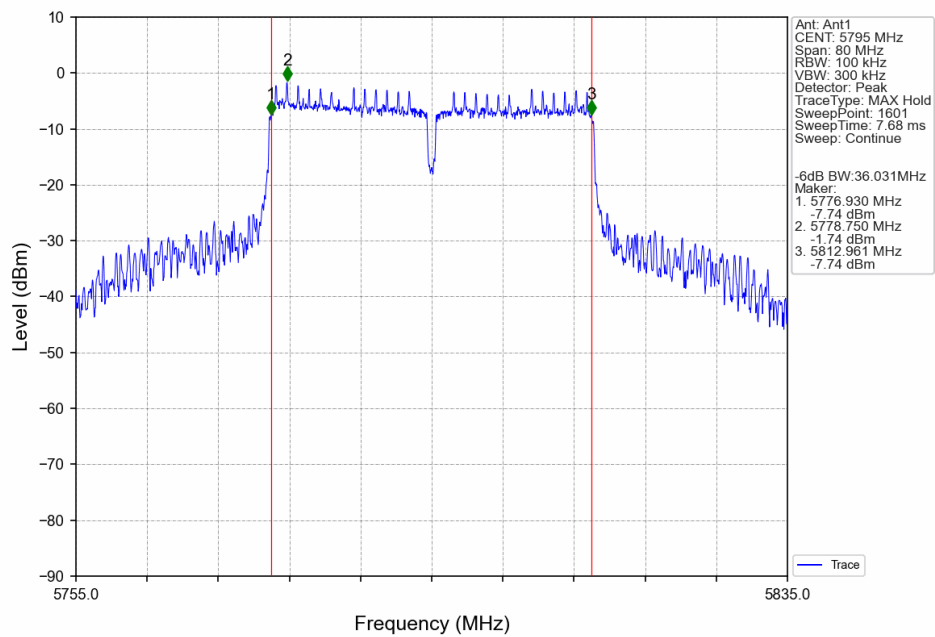
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



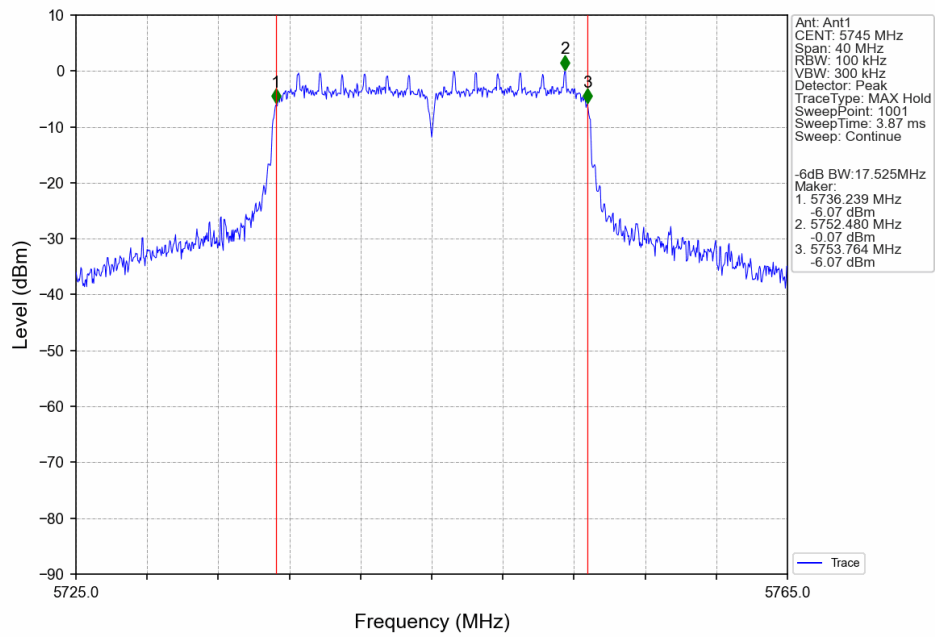
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



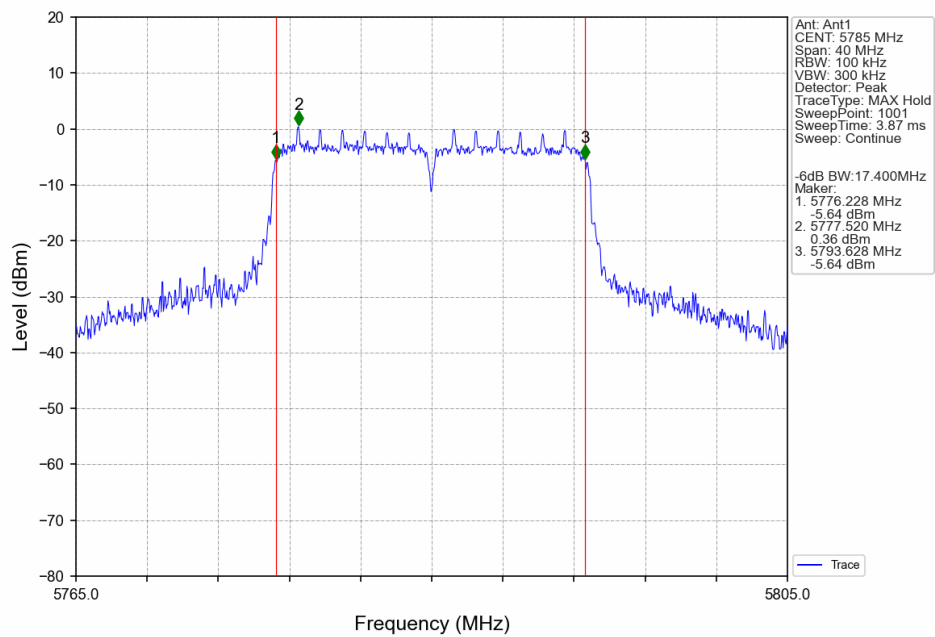
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



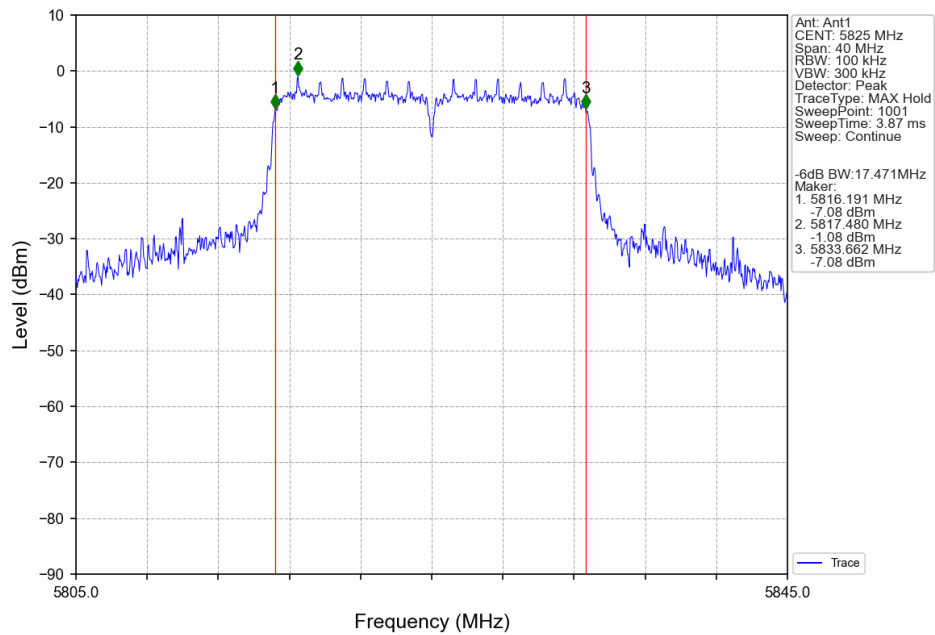
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



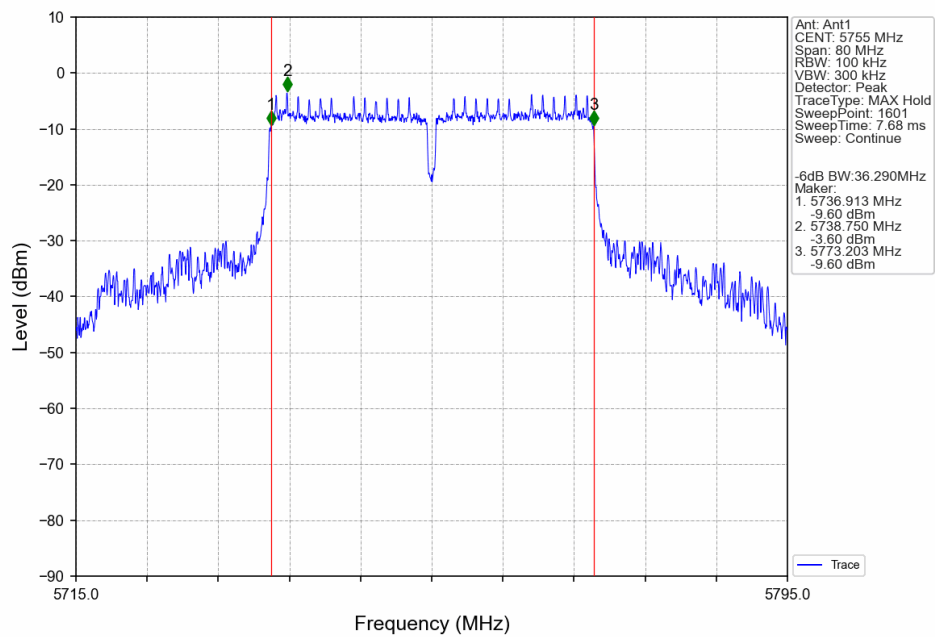
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



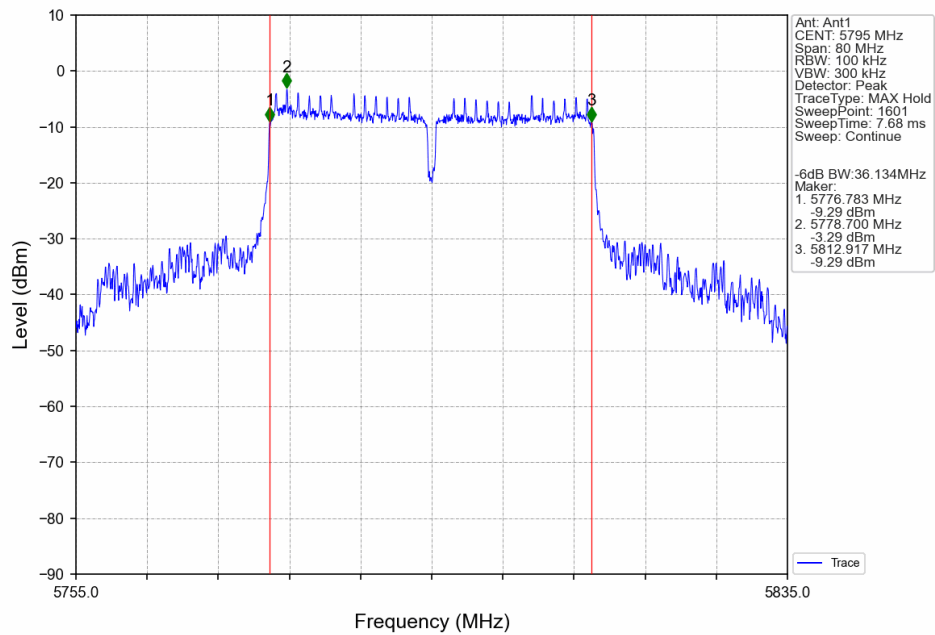
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



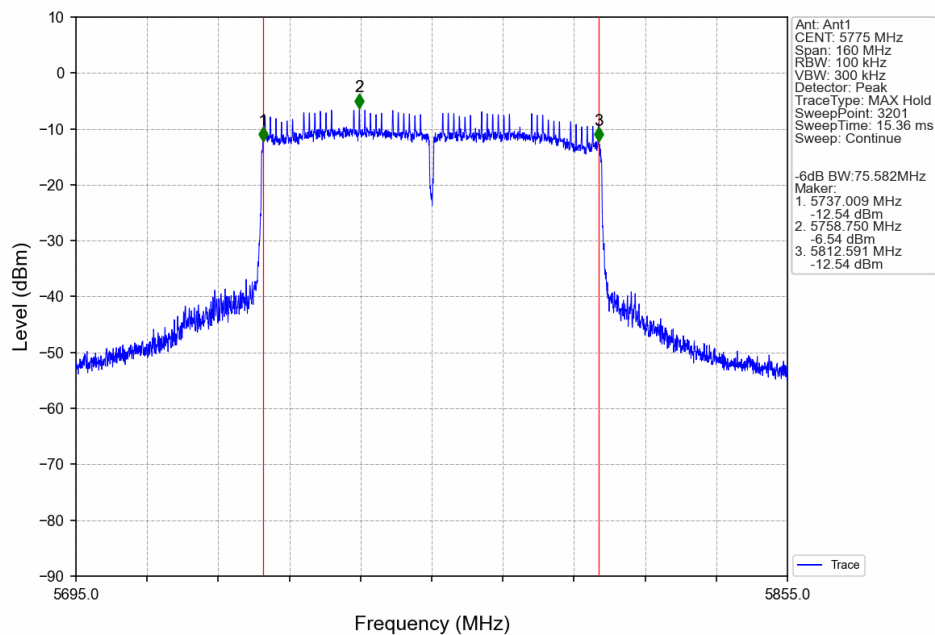
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



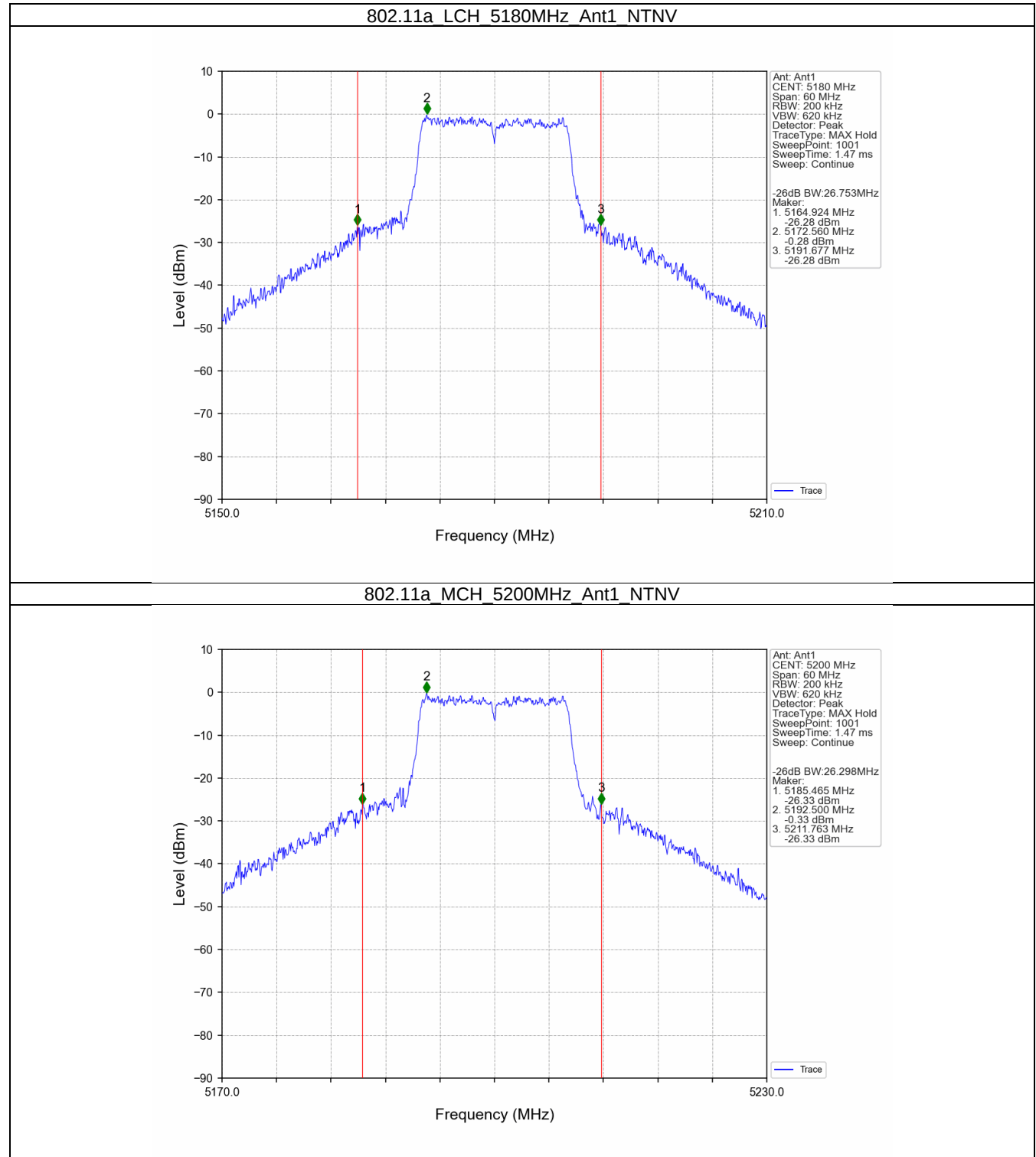
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



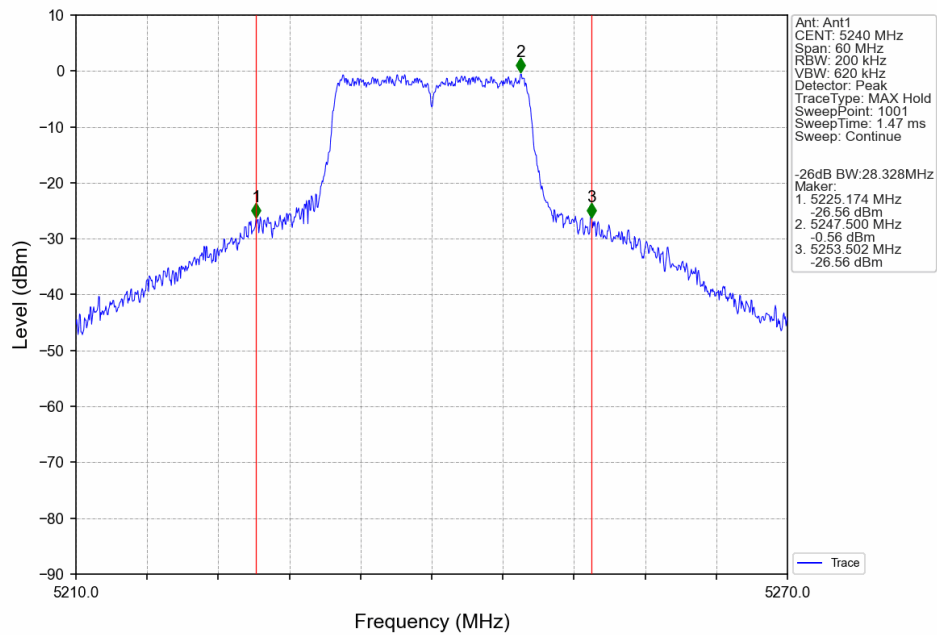
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



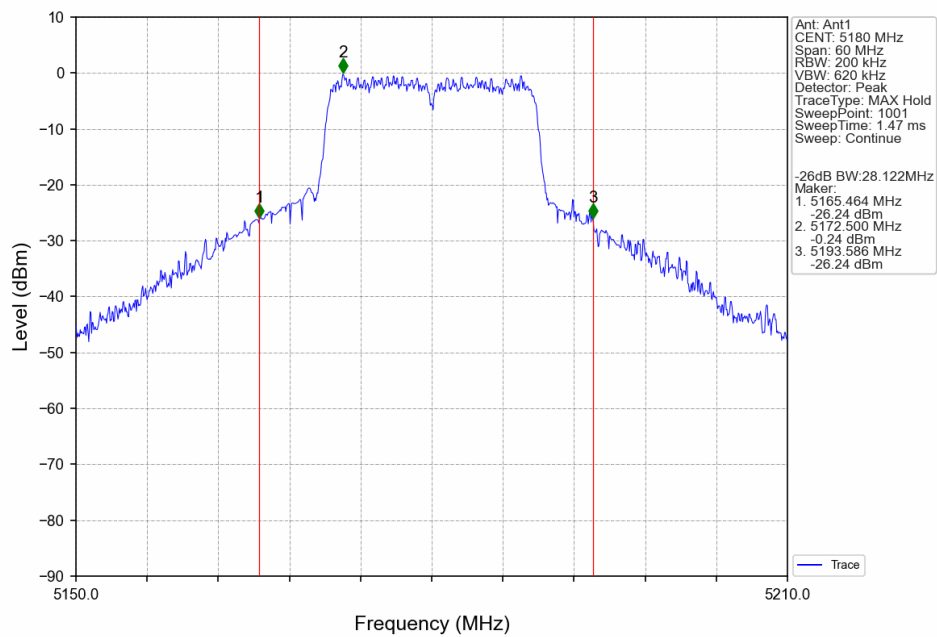
2.2.3 26dB BW



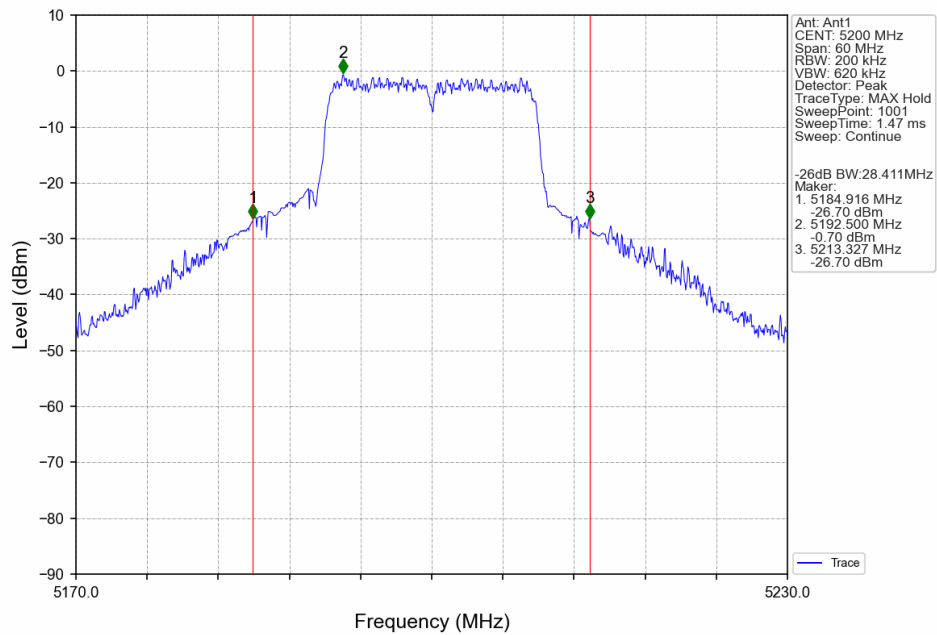
802.11a_HCH_5240MHz_Ant1_NTNV



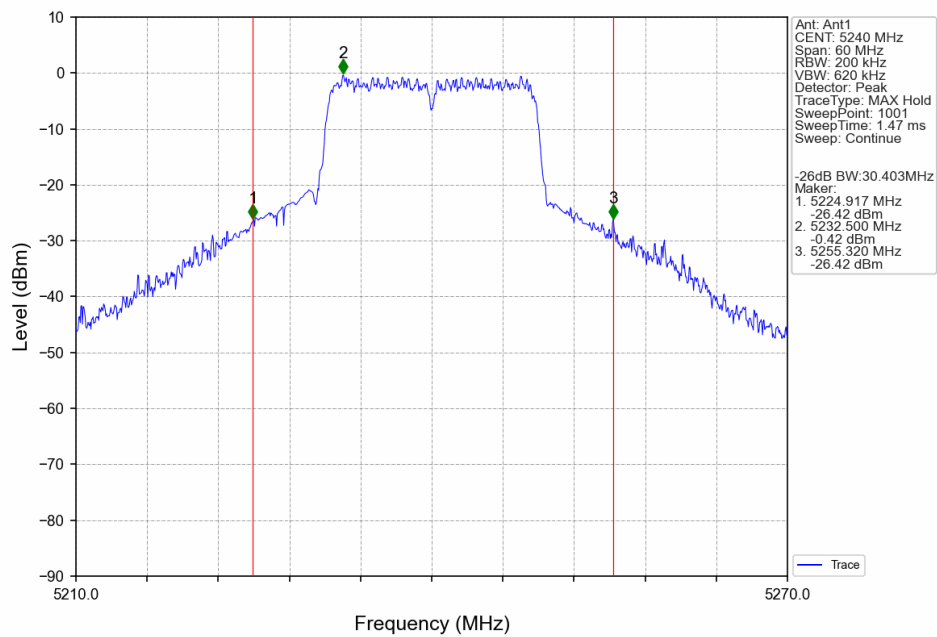
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



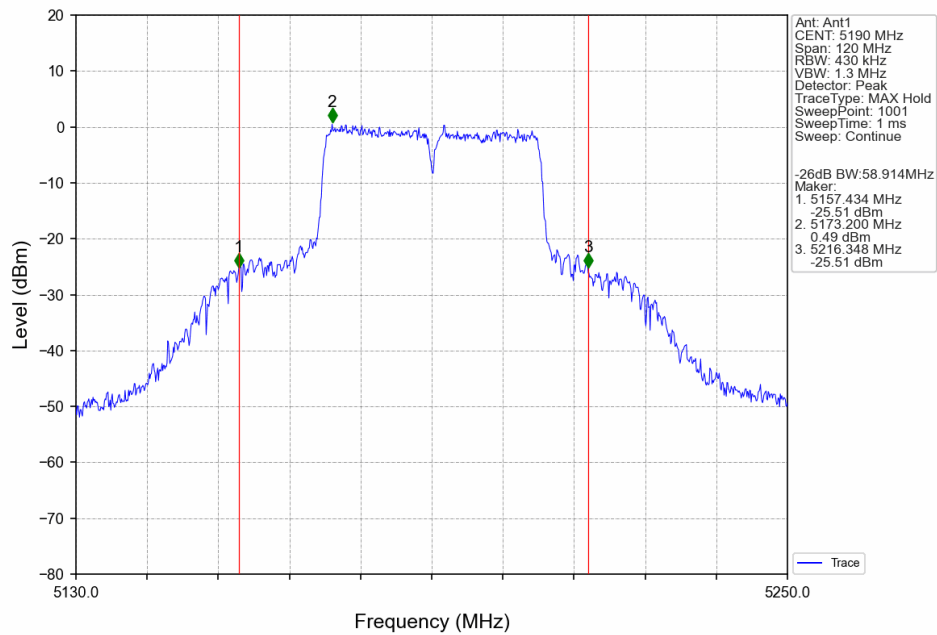
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



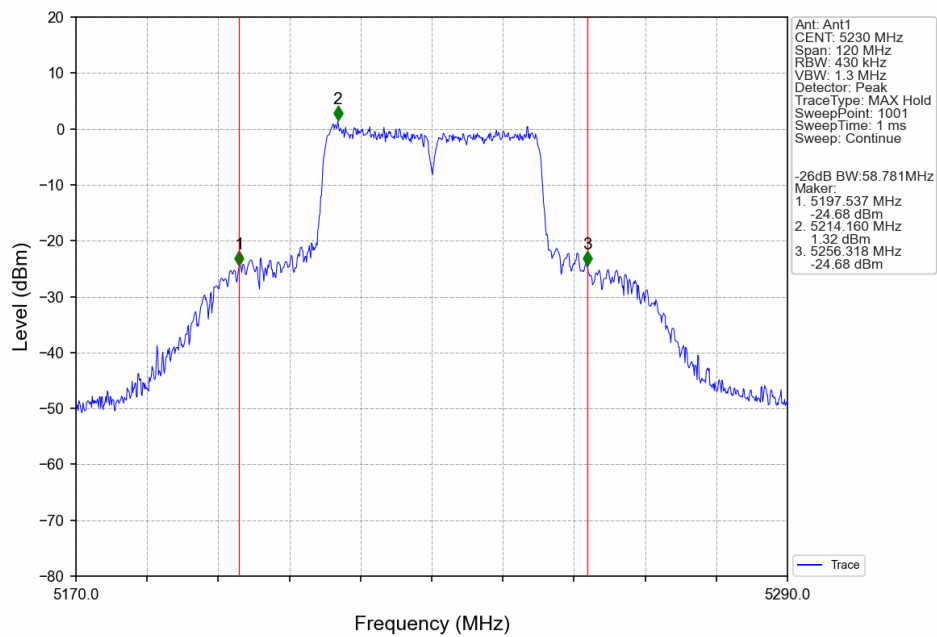
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



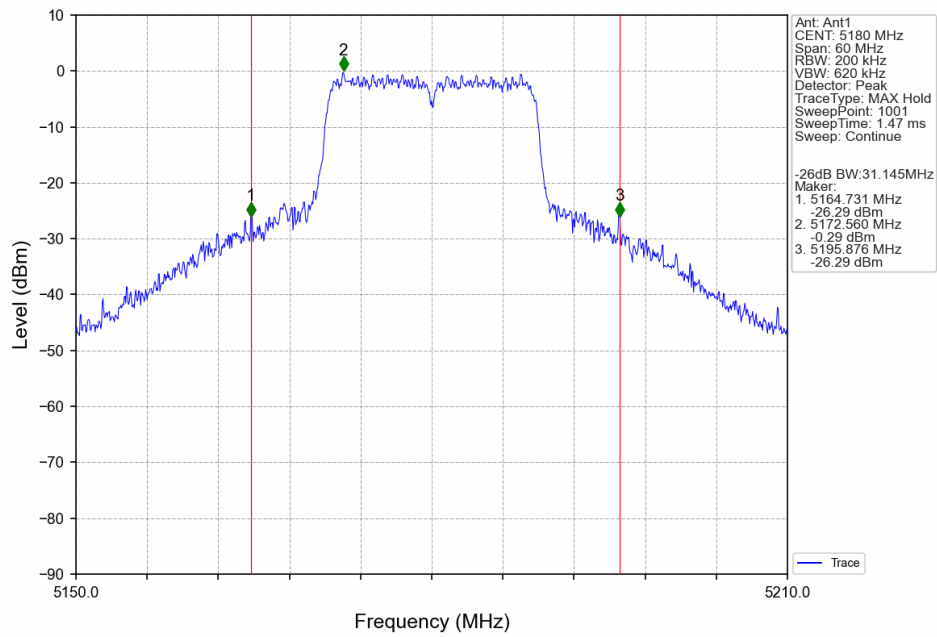
802.11n(HT40) LCH 5190MHz Ant1 NTN



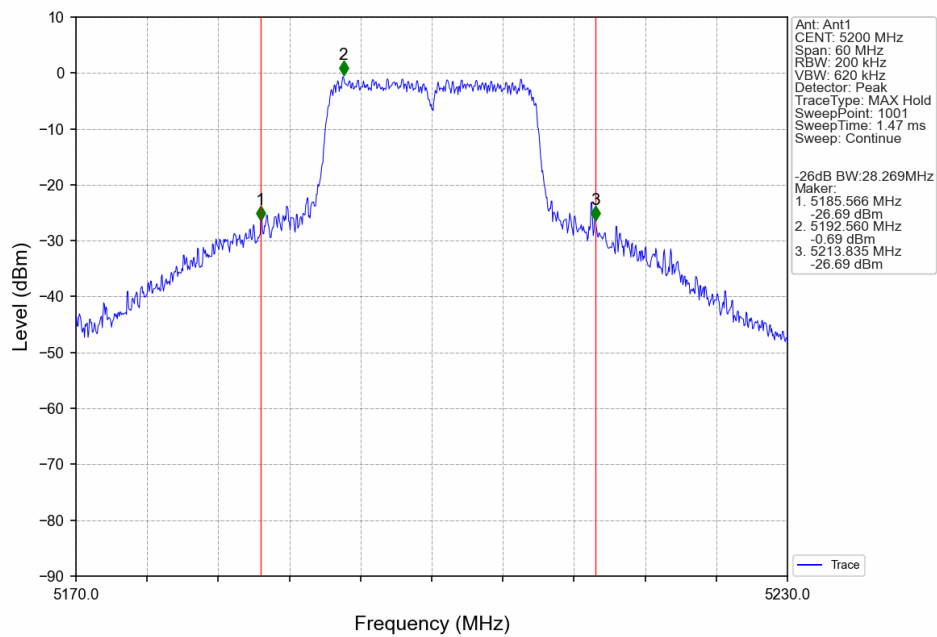
802.11n(HT40) HCH 5230MHz Ant1 NTN



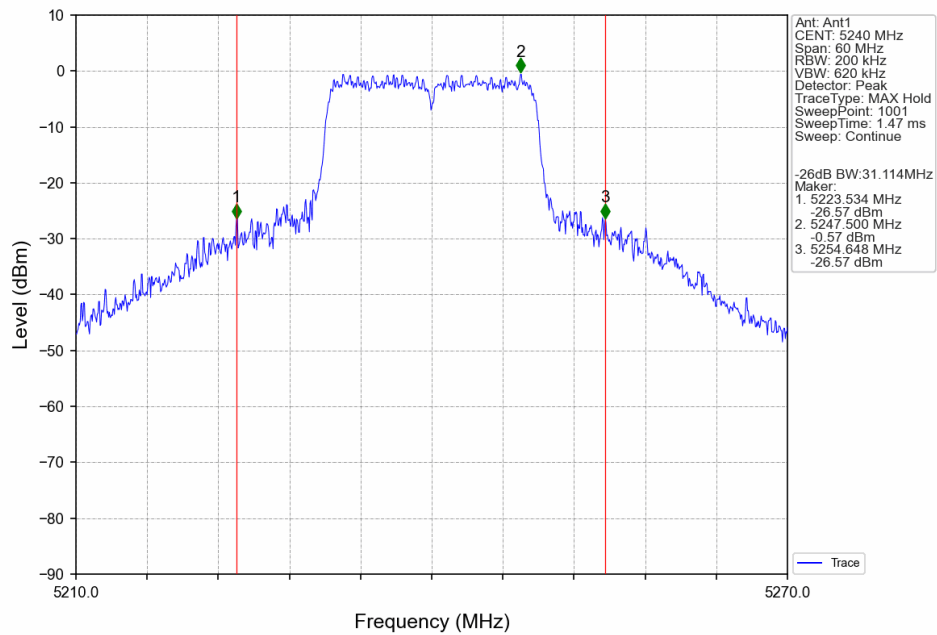
802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV



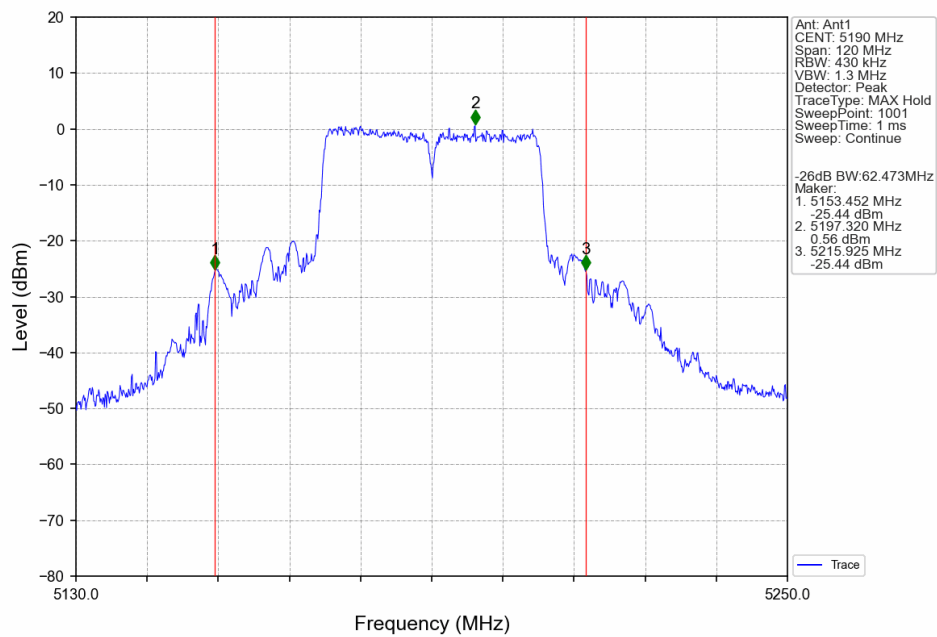
802.11ac(VHT20) MCH_5200MHz_Ant1_NTNV



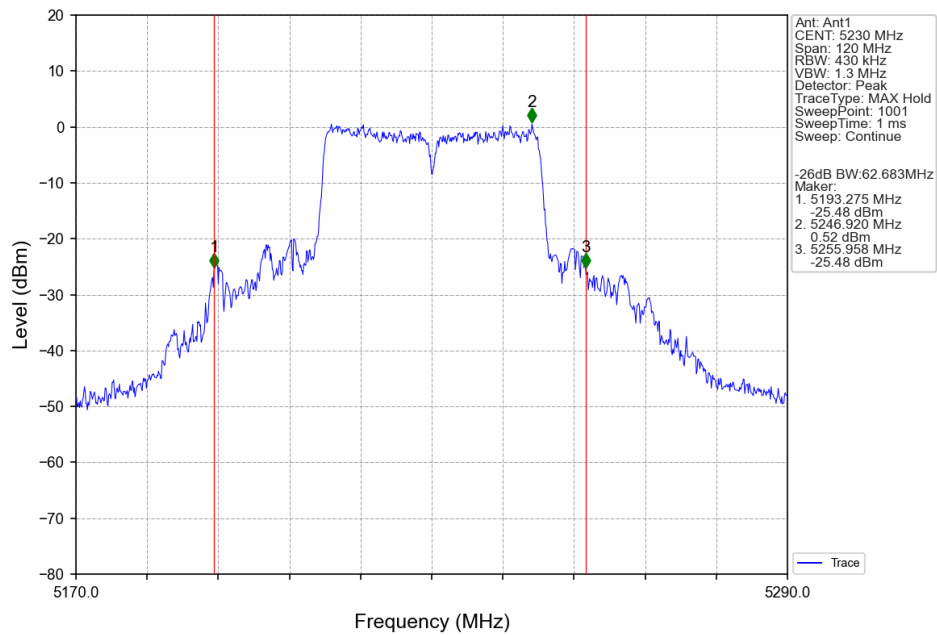
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



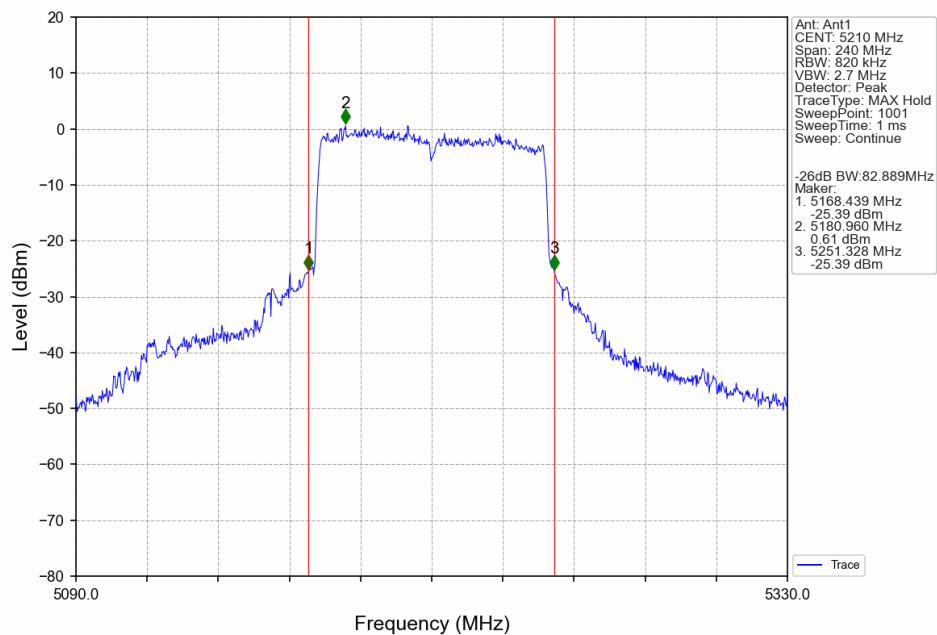
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



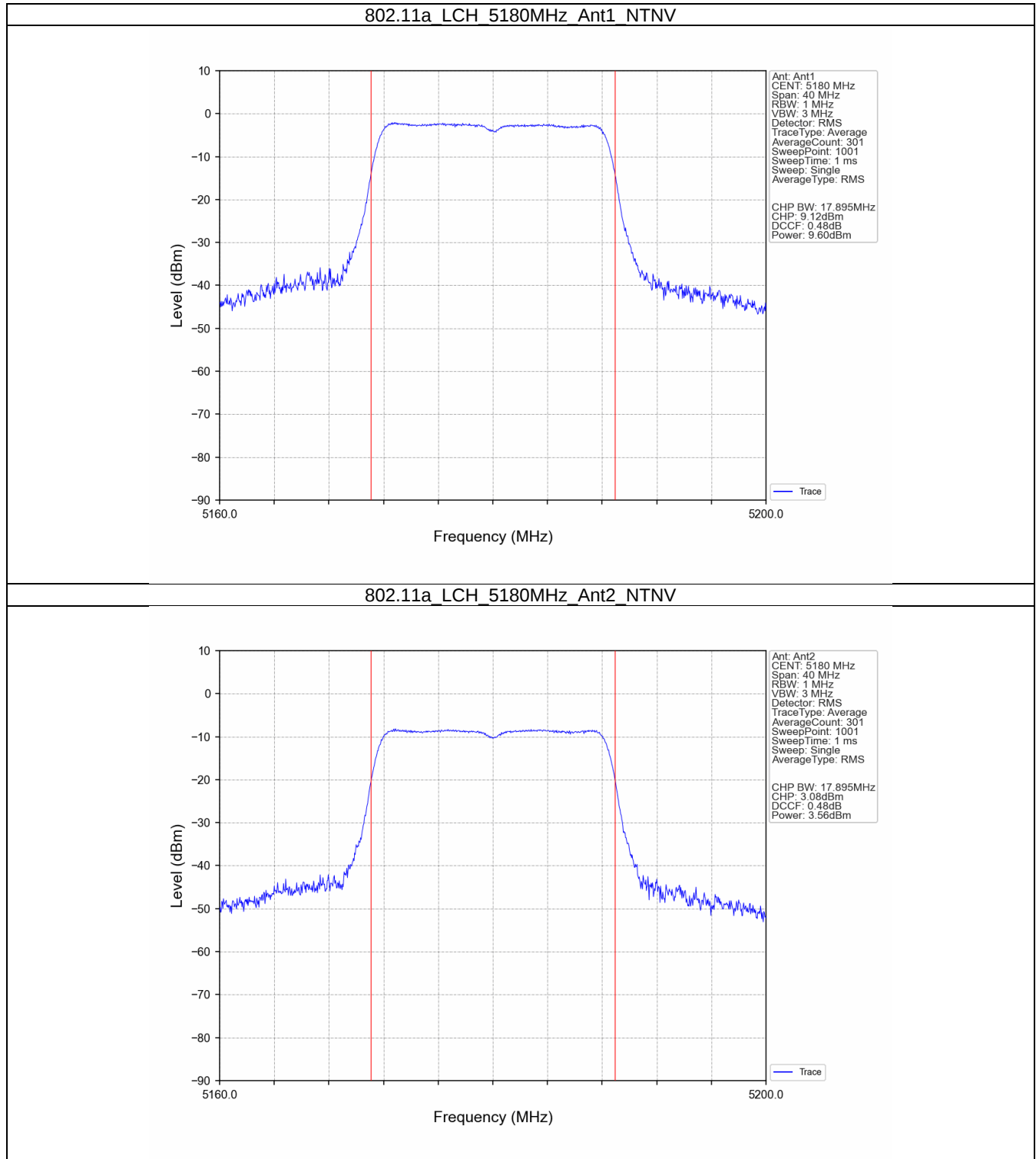
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



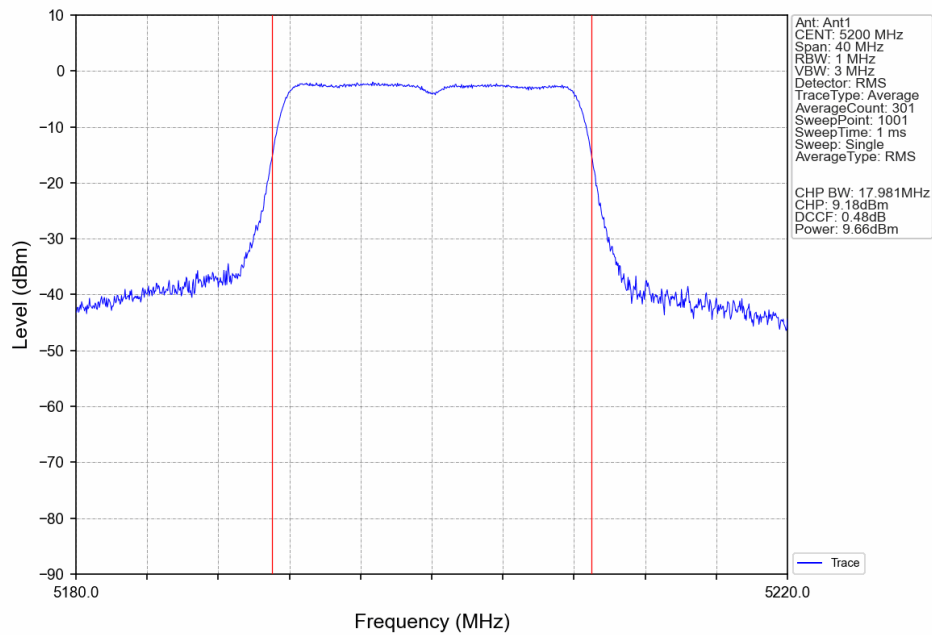
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	9.60	3.56	/	<=23.98	Pass
		5200	9.66	2.92	/	<=23.98	Pass
		5240	9.66	3.07	/	<=23.98	Pass
		5745	9.36	2.80	/	<=30	Pass
		5785	9.01	2.37	/	<=30	Pass
		5825	7.30	0.35	/	<=30	Pass
802.11n (HT20)	MIMO	5180	9.85	10.26	13.07	<=23.47	Pass
		5200	9.27	9.82	12.56	<=23.47	Pass
		5240	9.75	9.82	12.80	<=23.47	Pass
		5745	11.37	9.94	13.72	<=28.16	Pass
		5785	11.19	9.55	13.46	<=28.16	Pass
		5825	10.11	7.70	12.08	<=28.16	Pass
802.11n (HT40)	MIMO	5190	10.03	10.60	13.33	<=23.47	Pass
		5230	10.06	10.13	13.11	<=23.47	Pass
		5755	11.63	10.26	14.01	<=28.16	Pass
		5795	11.60	9.81	13.81	<=28.16	Pass
802.11ac (VHT20)	MIMO	5180	9.78	10.14	12.97	<=23.47	Pass
		5200	9.32	9.65	12.50	<=23.47	Pass
		5240	9.68	9.57	12.64	<=23.47	Pass
		5745	11.25	11.19	14.23	<=28.16	Pass
		5785	11.23	11.44	14.35	<=28.16	Pass
		5825	10.20	10.00	13.11	<=28.16	Pass
802.11ac (VHT40)	MIMO	5190	10.02	10.47	13.26	<=23.47	Pass
		5230	10.07	10.16	13.13	<=23.47	Pass
		5755	10.24	11.80	14.10	<=28.16	Pass
		5795	10.00	11.71	13.95	<=28.16	Pass
802.11ac (VHT80)	MIMO	5210	9.58	10.23	12.93	<=23.47	Pass
		5775	10.06	11.93	14.11	<=28.16	Pass
Note1: Antenna Gain U-NII 1: Ant1: 3.50dBi; Ant2: 3.50dBi; Antenna Gain U-NII 3: Ant1: 4.83dBi; Ant2: 4.83dBi; Note2: Directional Gain: UNII 1: 6.51, UNII 3: 7.84							

3.2 Test Graph

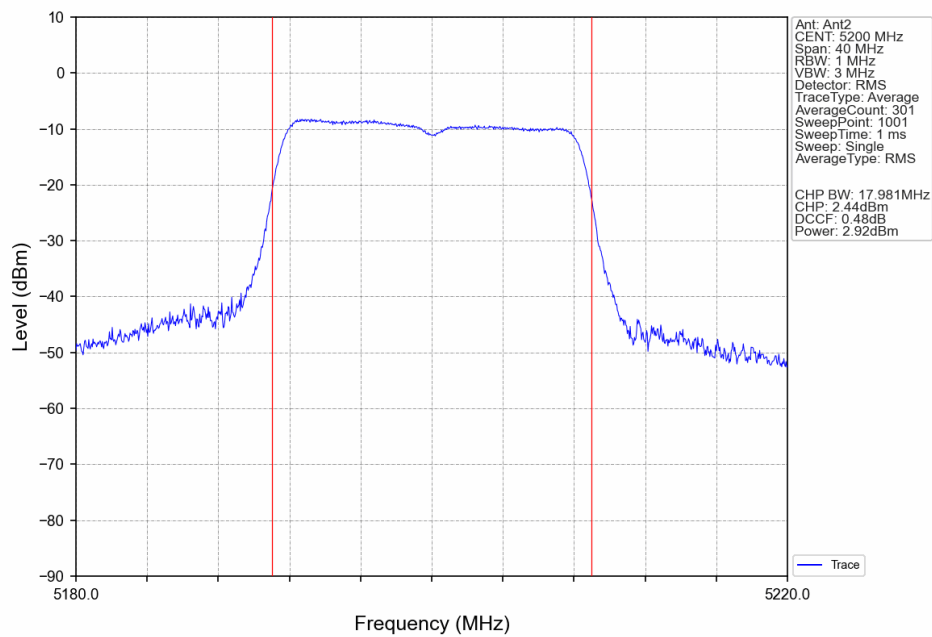
3.2.1 Power



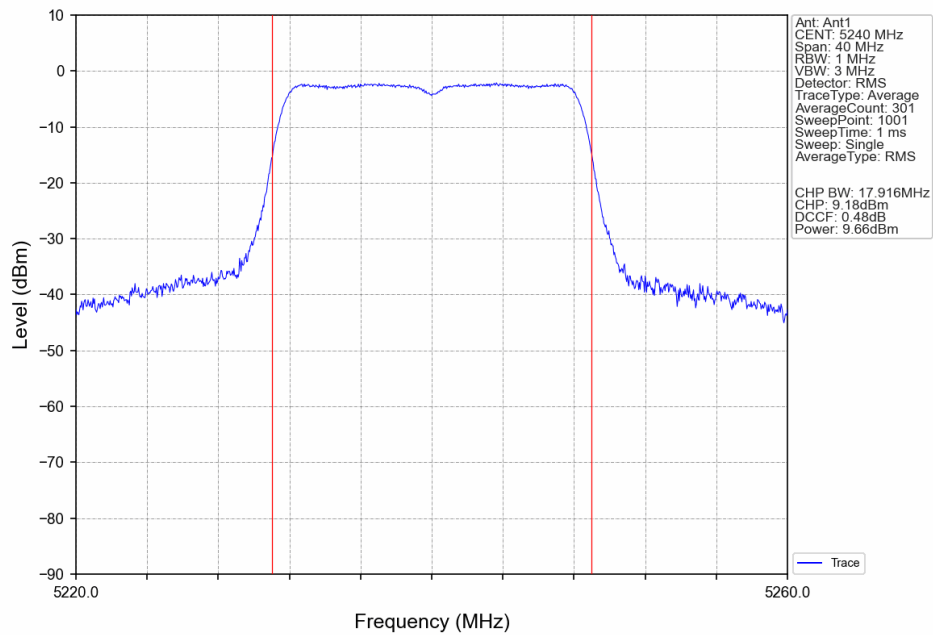
802.11a_MCH_5200MHz_Ant1_NTNV



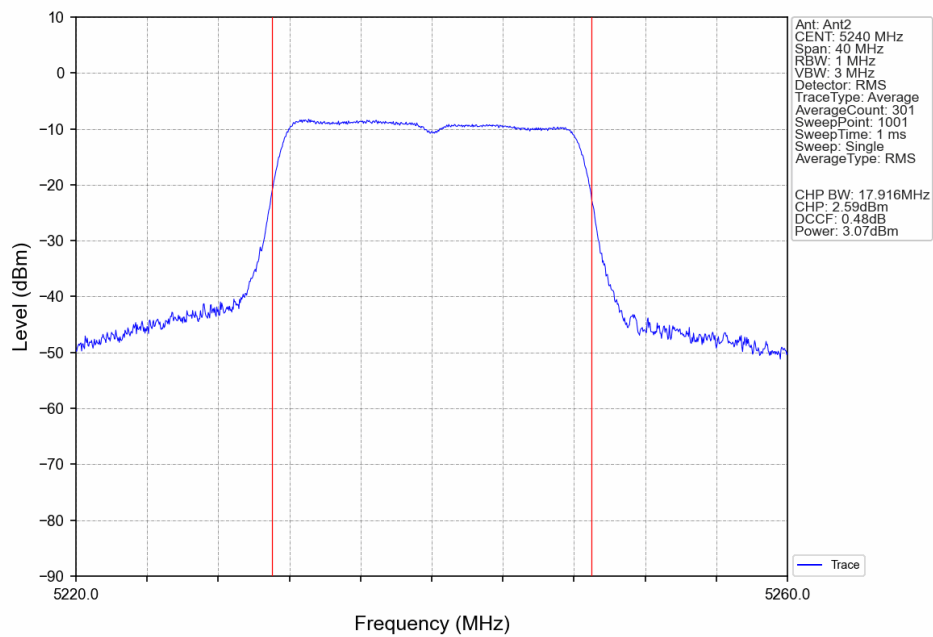
802.11a_MCH_5200MHz_Ant2_NTNV



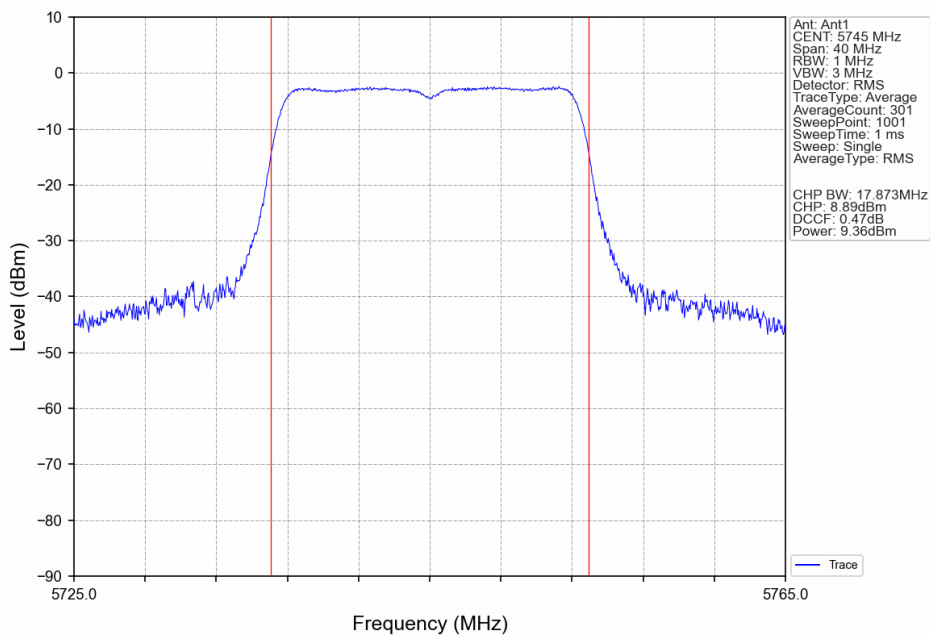
802.11a_HCH_5240MHz_Ant1_NTNV



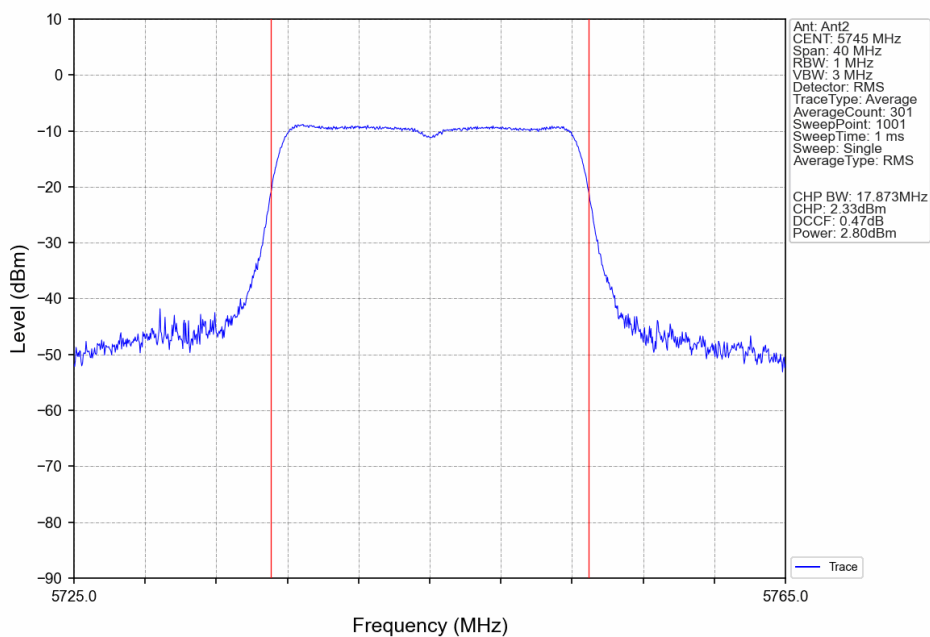
802.11a_HCH_5240MHz_Ant2_NTNV



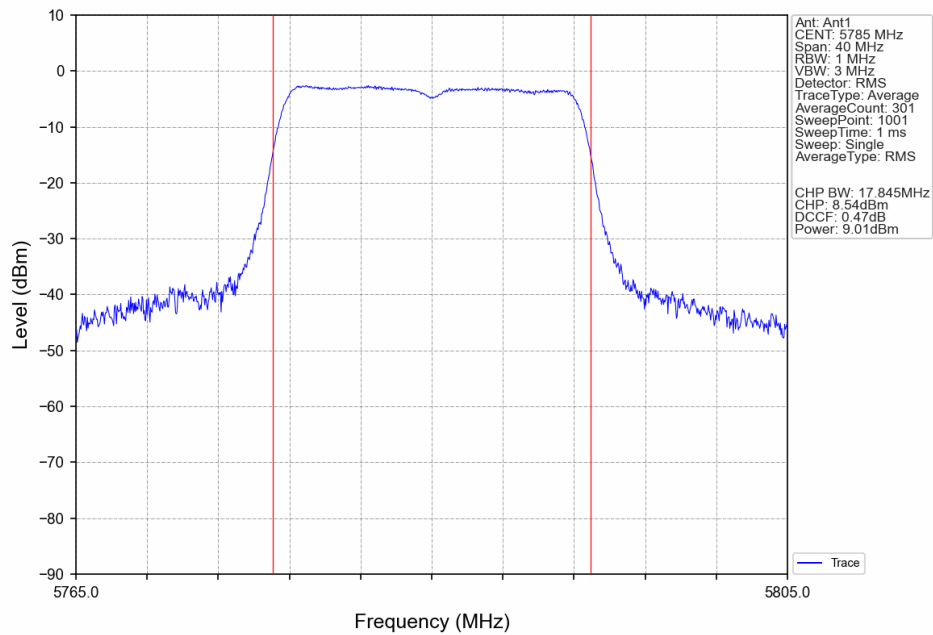
802.11a LCH_5745MHz_Ant1_NTNV



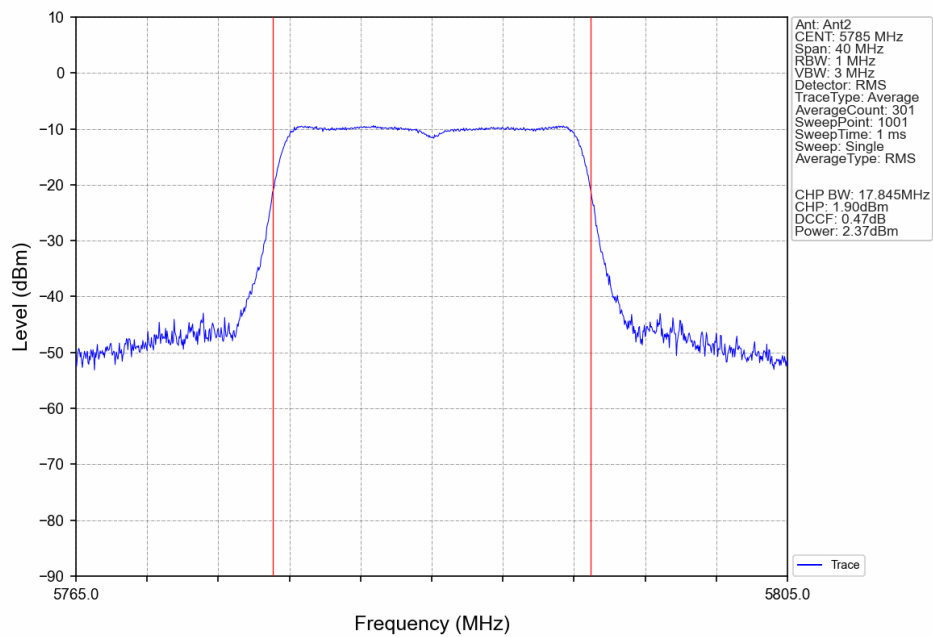
802.11a LCH_5745MHz_Ant2_NTNV



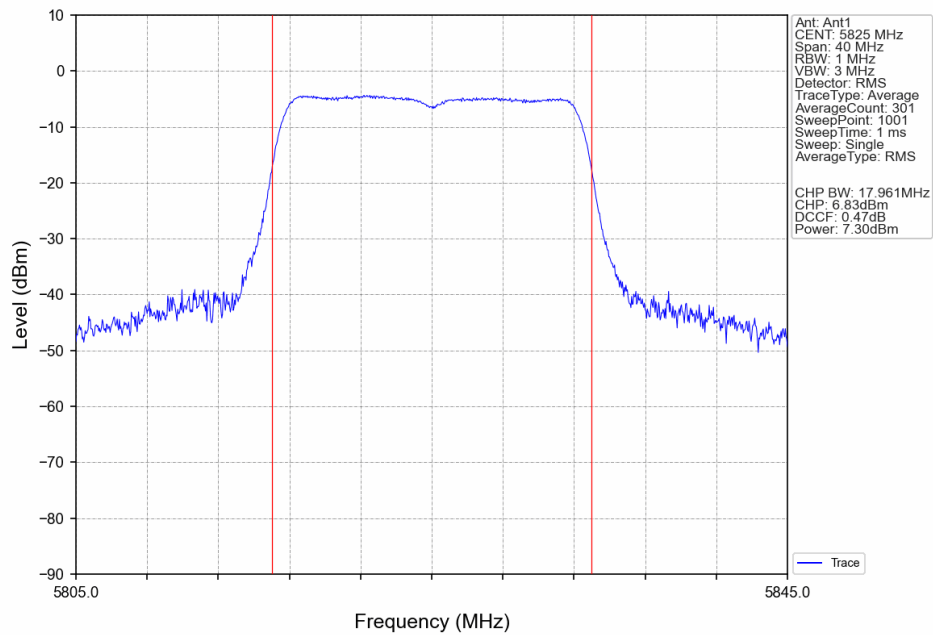
802.11a_MCH_5785MHz_Ant1_NTNV



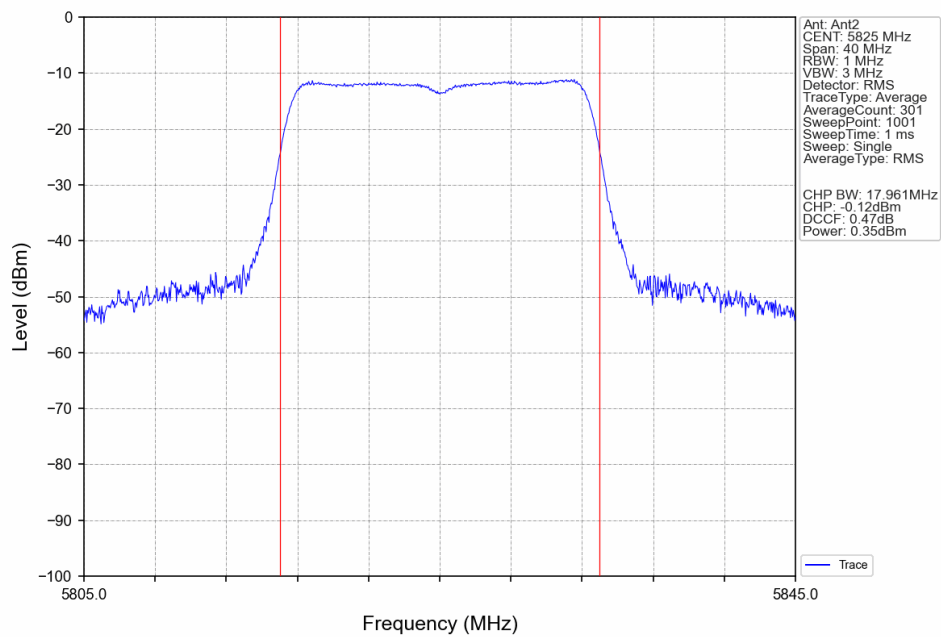
802.11a_MCH_5785MHz_Ant2_NTNV



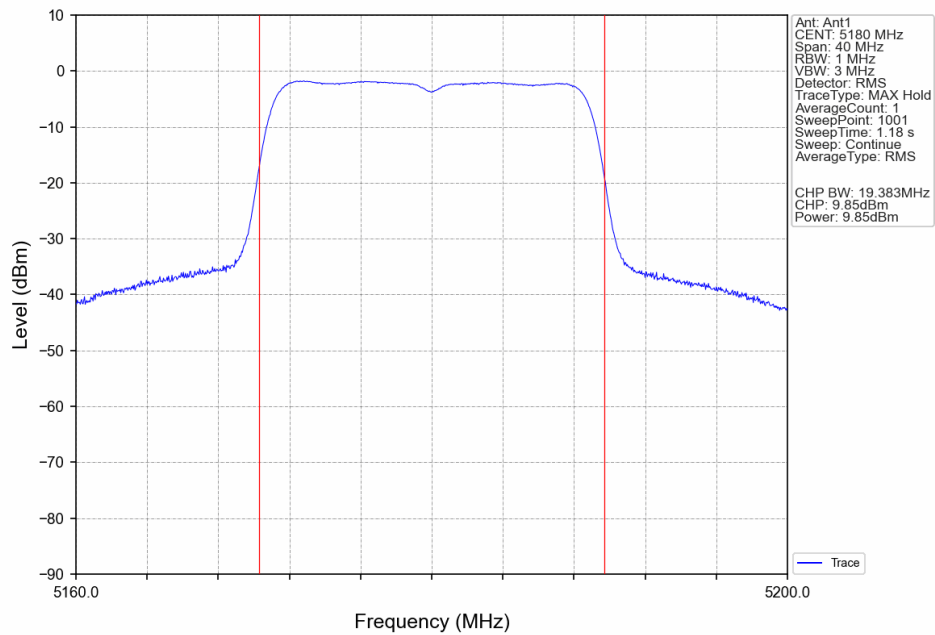
802.11a_HCH_5825MHz_Ant1_NTNV



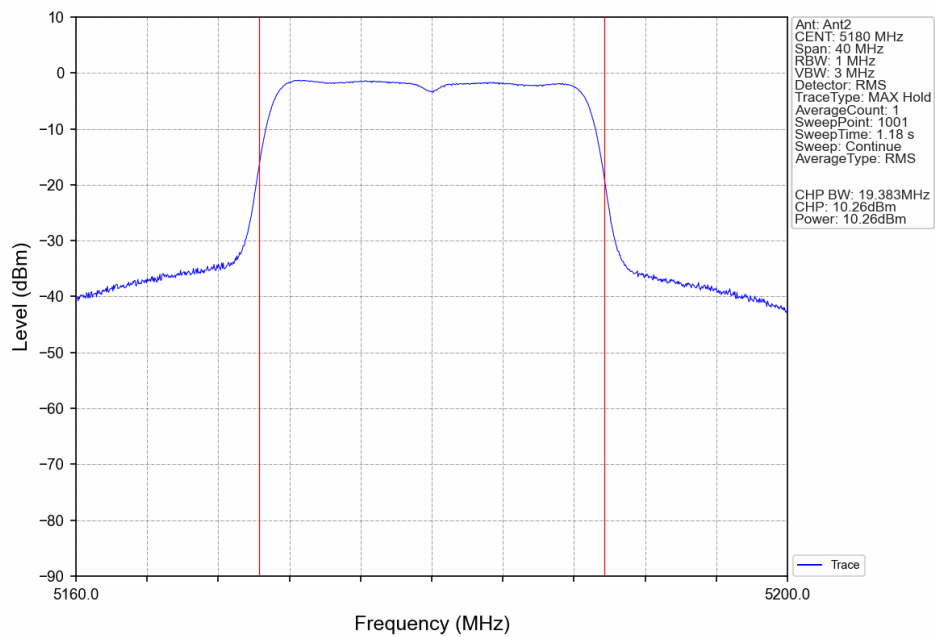
802.11a_HCH_5825MHz_Ant2_NTNV



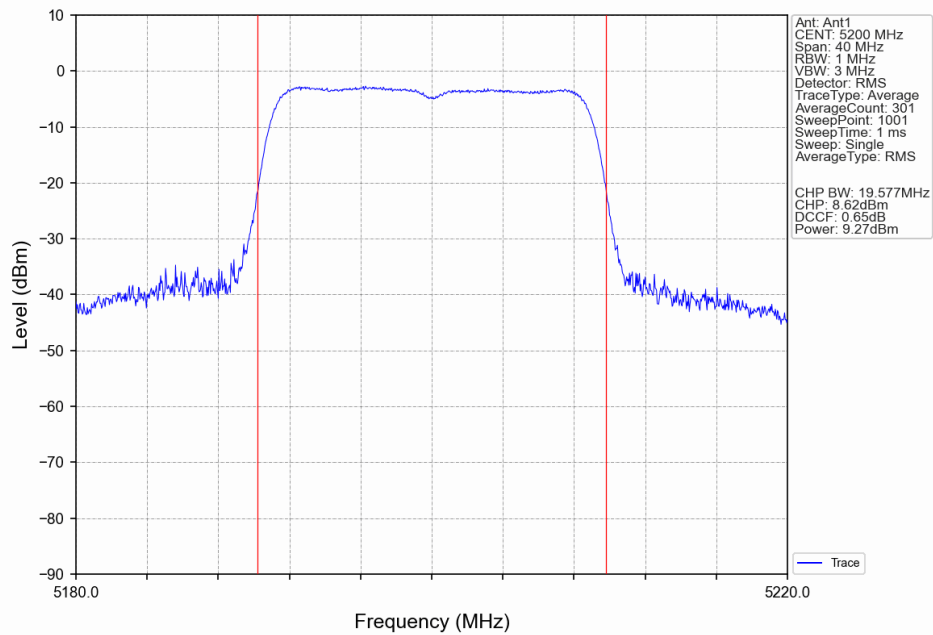
802.11n(HT20) LCH 5180MHz Ant1 NTN



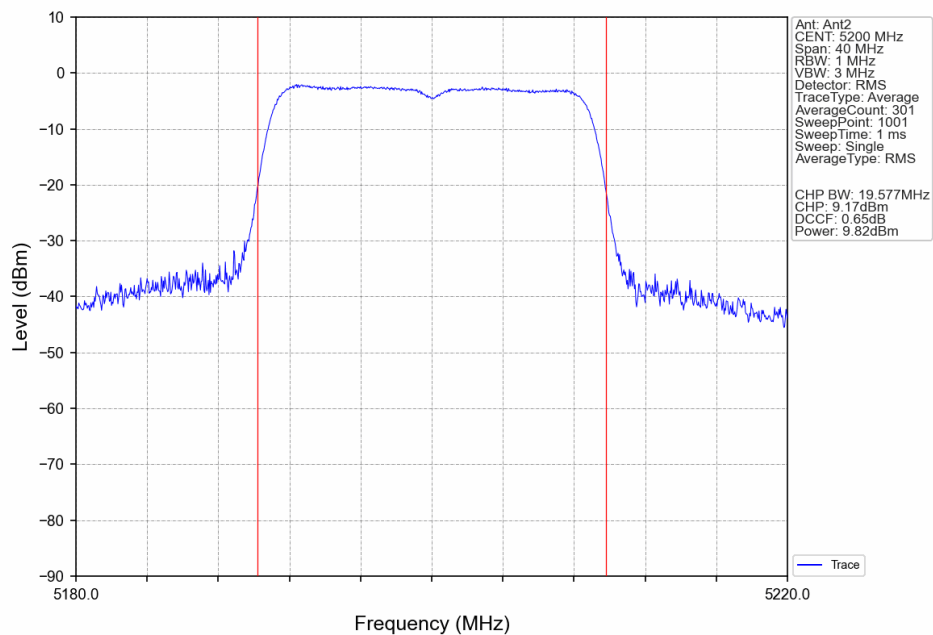
802.11n(HT20) LCH 5180MHz Ant2 NTN



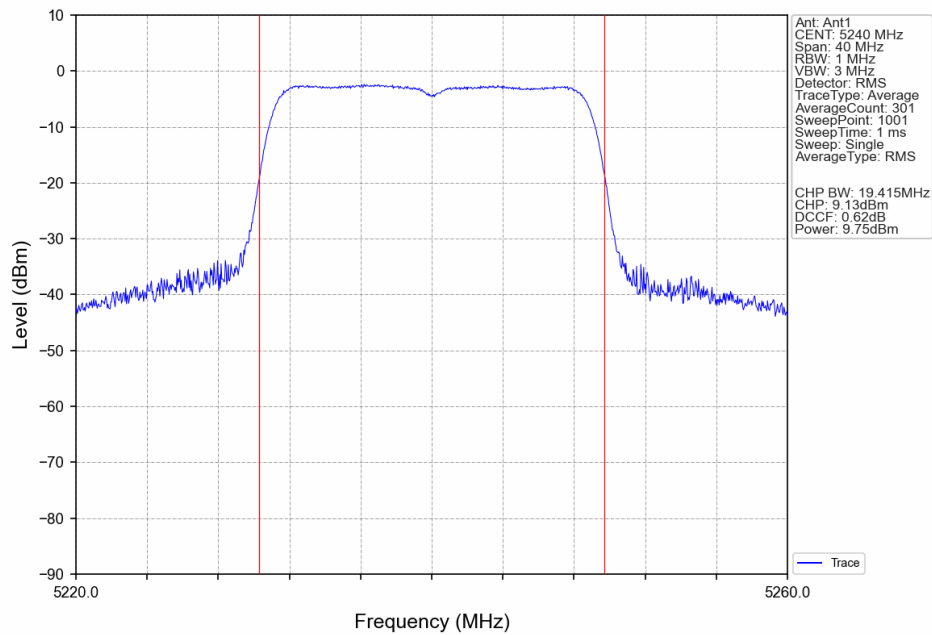
802.11n(HT20) MCH 5200MHz Ant1 NTN



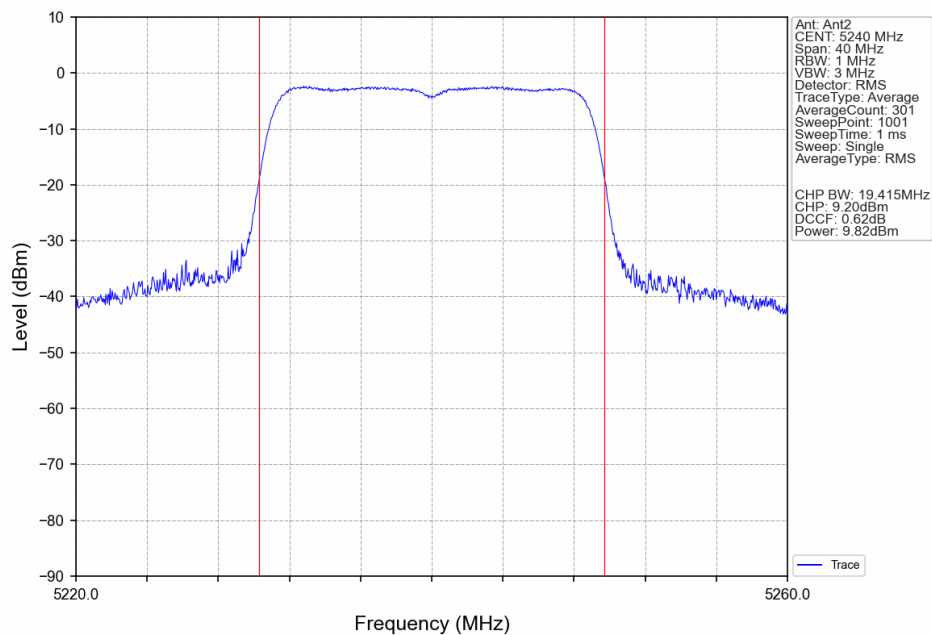
802.11n(HT20) MCH 5200MHz Ant2 NTN



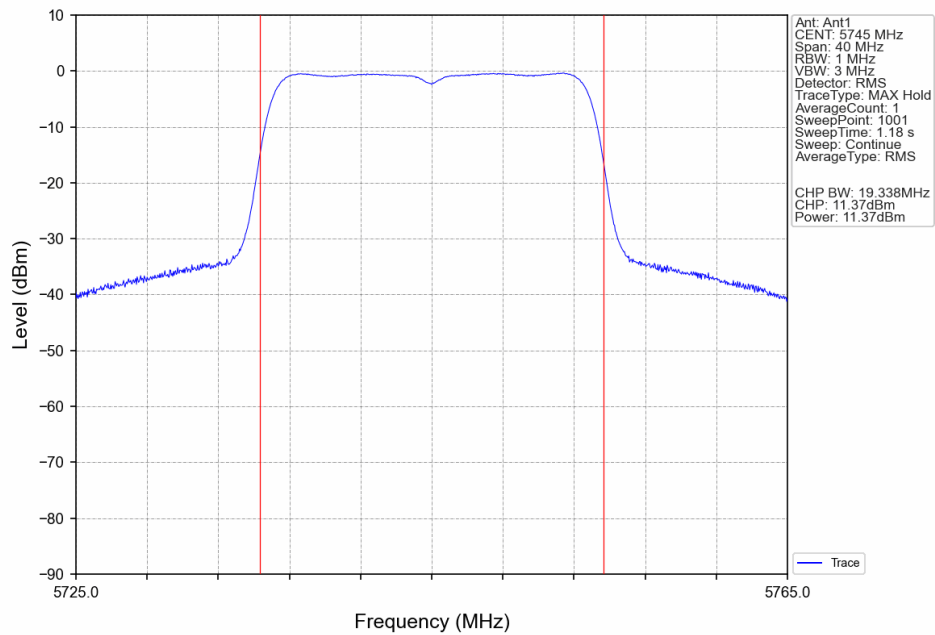
802.11n(HT20) HCH 5240MHz Ant1 NTN



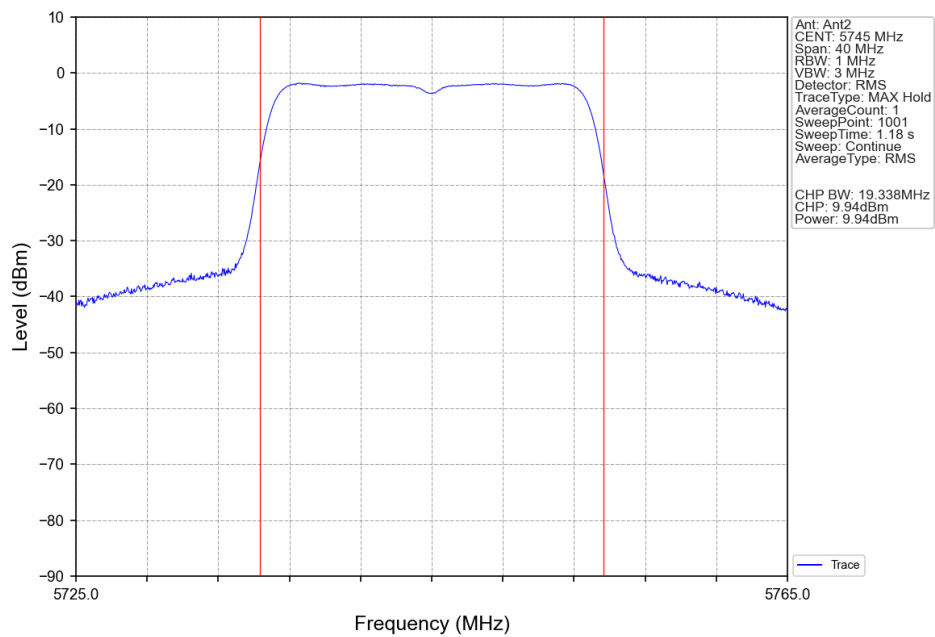
802.11n(HT20) HCH 5240MHz Ant2 NTN



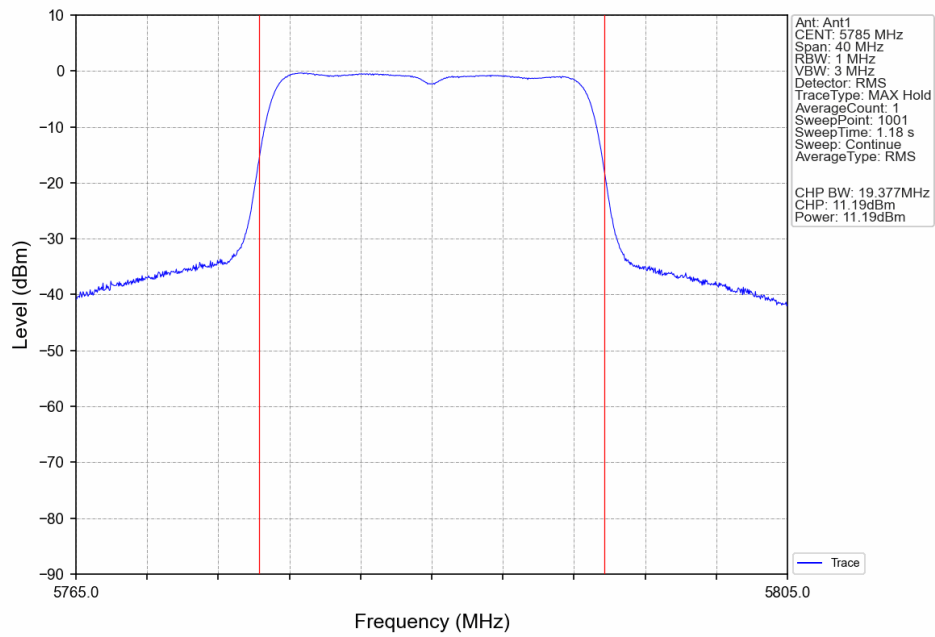
802.11n(HT20) LCH 5745MHz Ant1 NTN



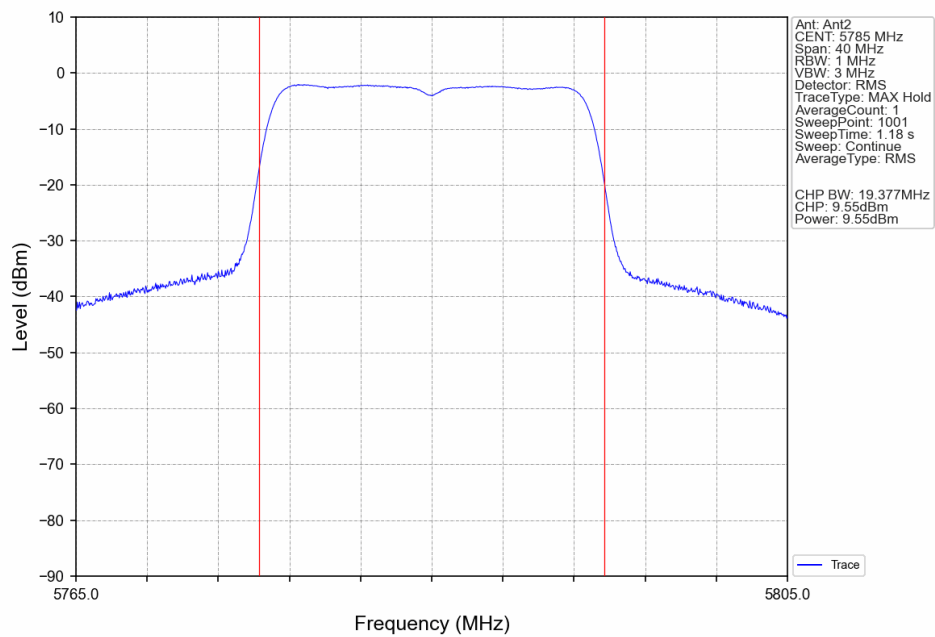
802.11n(HT20) LCH 5745MHz Ant2 NTN



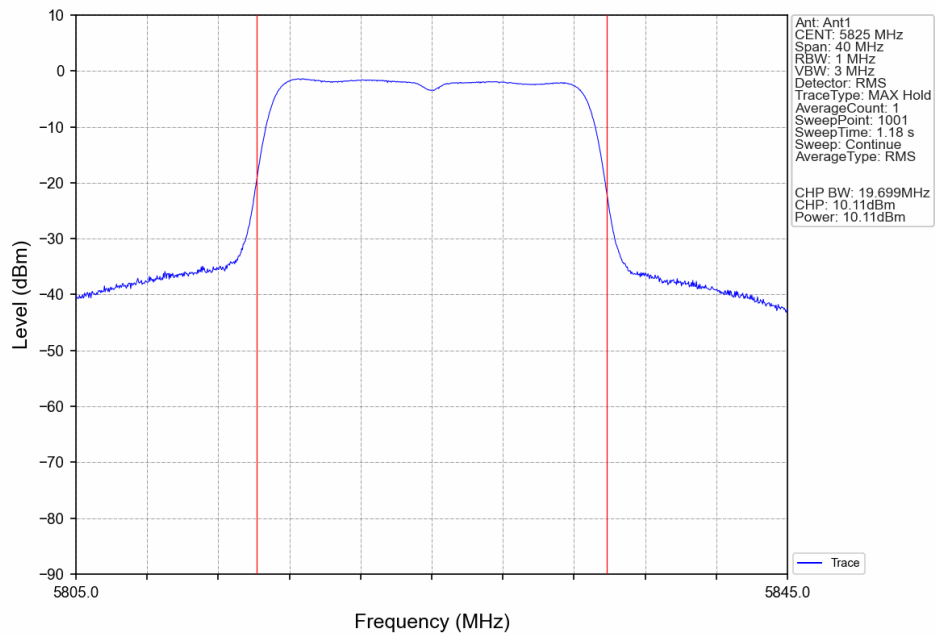
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



802.11n(HT20) HCH 5825MHz Ant1 NTN



802.11n(HT20) HCH 5825MHz Ant2 NTN

