

Appendix RF test data for 5G WIFI

1. Duty Cycle

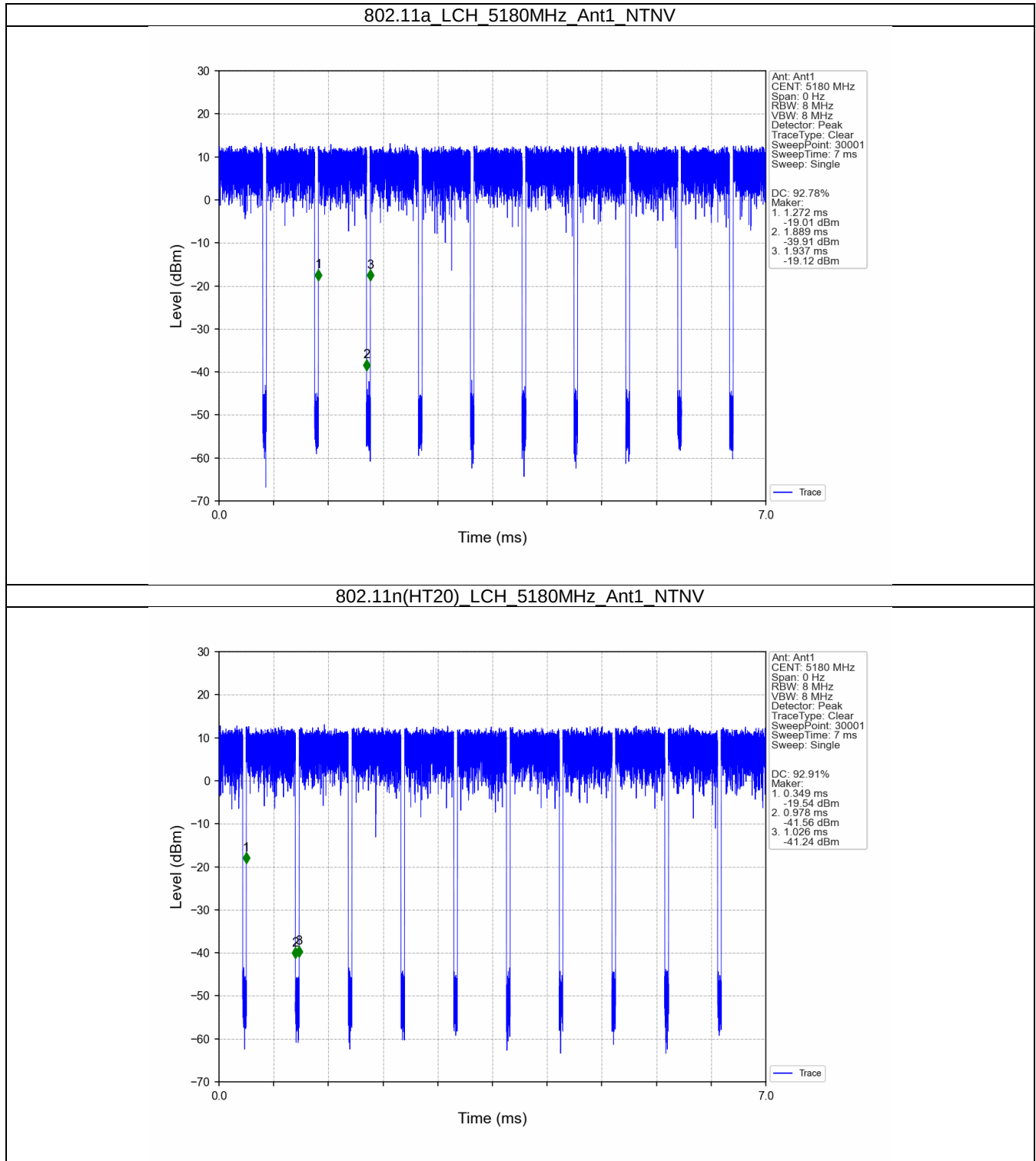
1.1 Test Result

1.1.1 Ant1

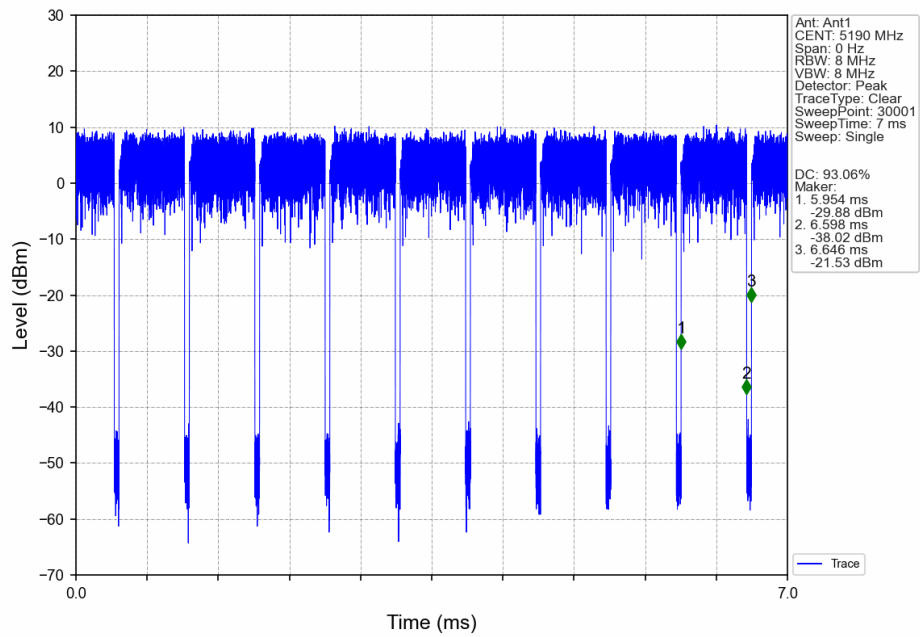
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	0.617	0.665	92.78	0.33	0.33
802.11n (HT20)	SISO	5180	/	/	0.629	0.677	92.91	0.32	0.29
802.11n (HT40)	SISO	5190	/	/	0.644	0.692	93.06	0.31	0.25
802.11ac (VHT20)	SISO	5180	/	/	0.617	0.665	92.78	0.33	0.26
802.11ac (VHT40)	SISO	5190	/	/	0.621	0.668	92.96	0.32	0.20
802.11ac (VHT80)	SISO	5210	/	/	0.628	0.676	92.90	0.32	0.23
802.11ax (HEW20)	SISO	5180	SU	/	0.653	0.701	93.15	0.31	0.12
802.11ax (HEW40)	SISO	5190	SU	/	0.647	0.696	92.96	0.32	0.38
802.11ax (HEW80)	SISO	5210	SU	/	0.651	0.701	92.87	0.32	0.31

1.2 Test Graph

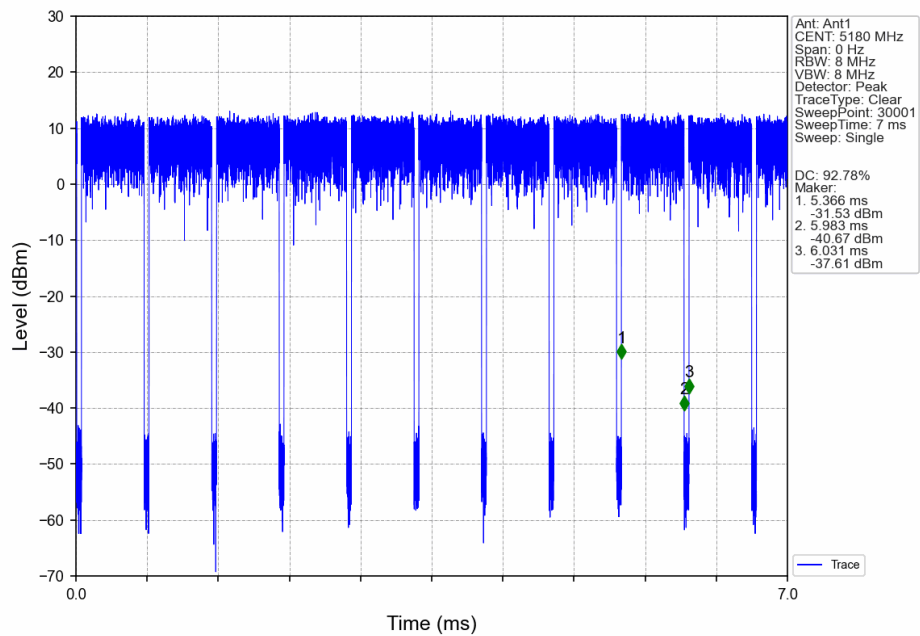
1.2.1 Ant1



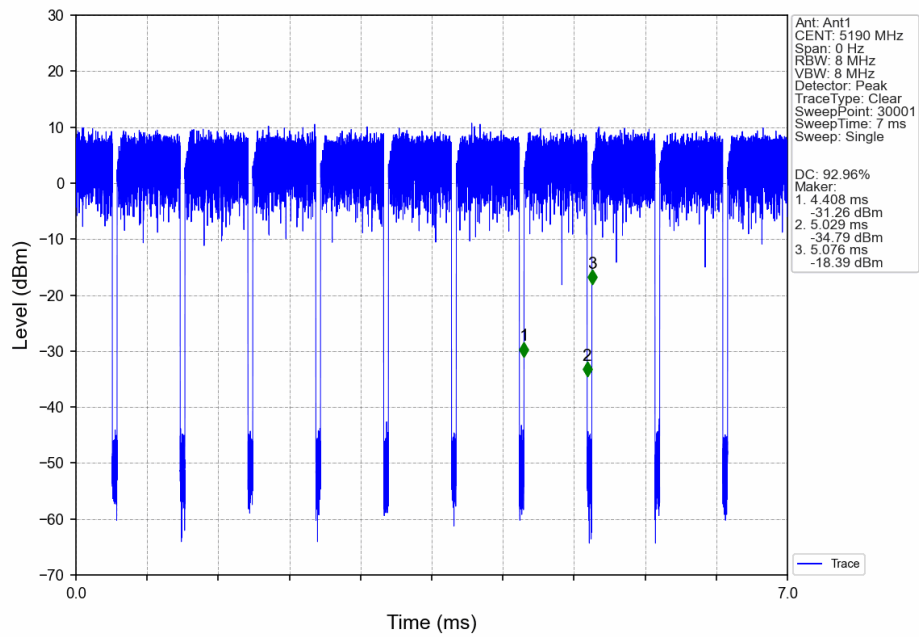
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



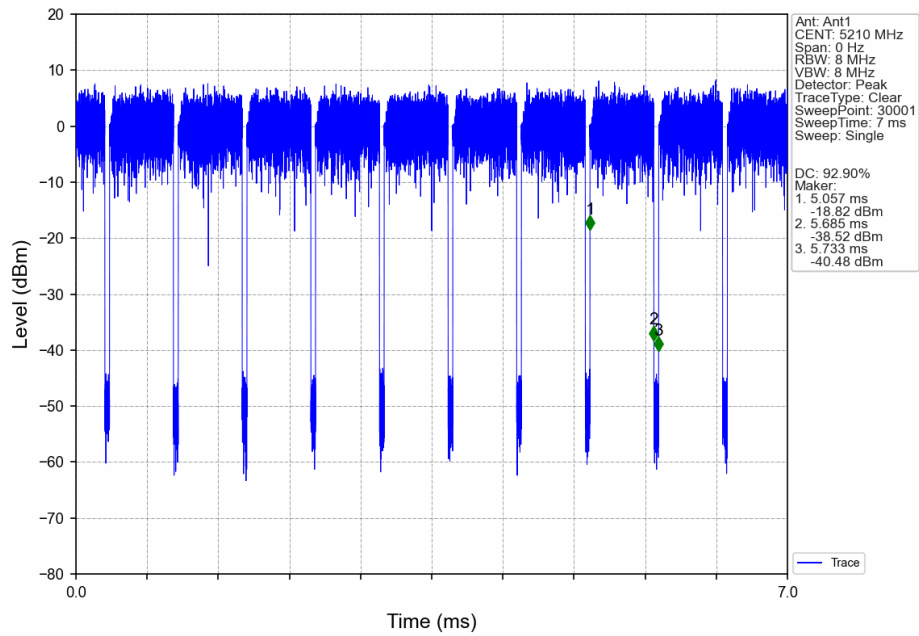
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



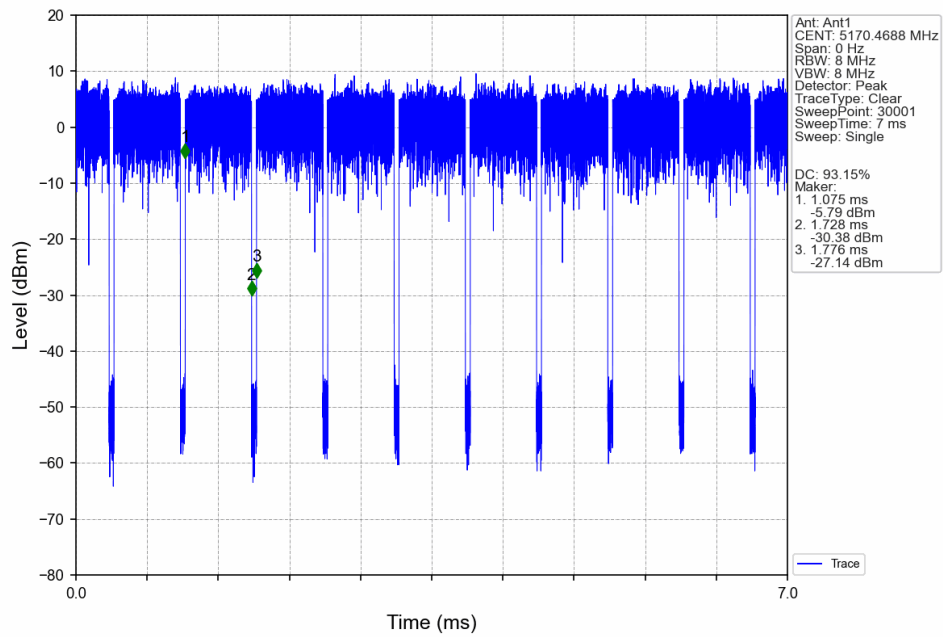
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



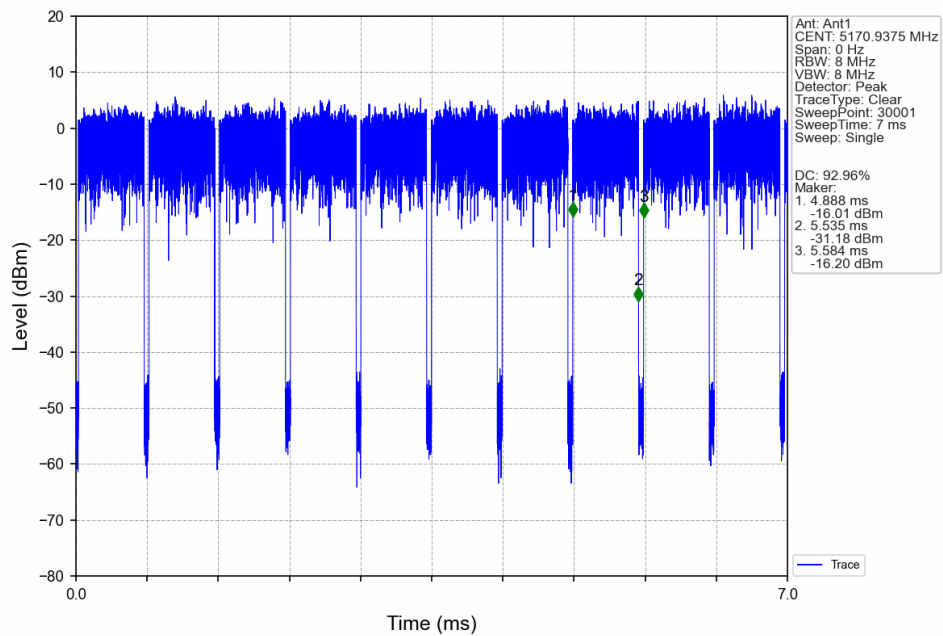
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

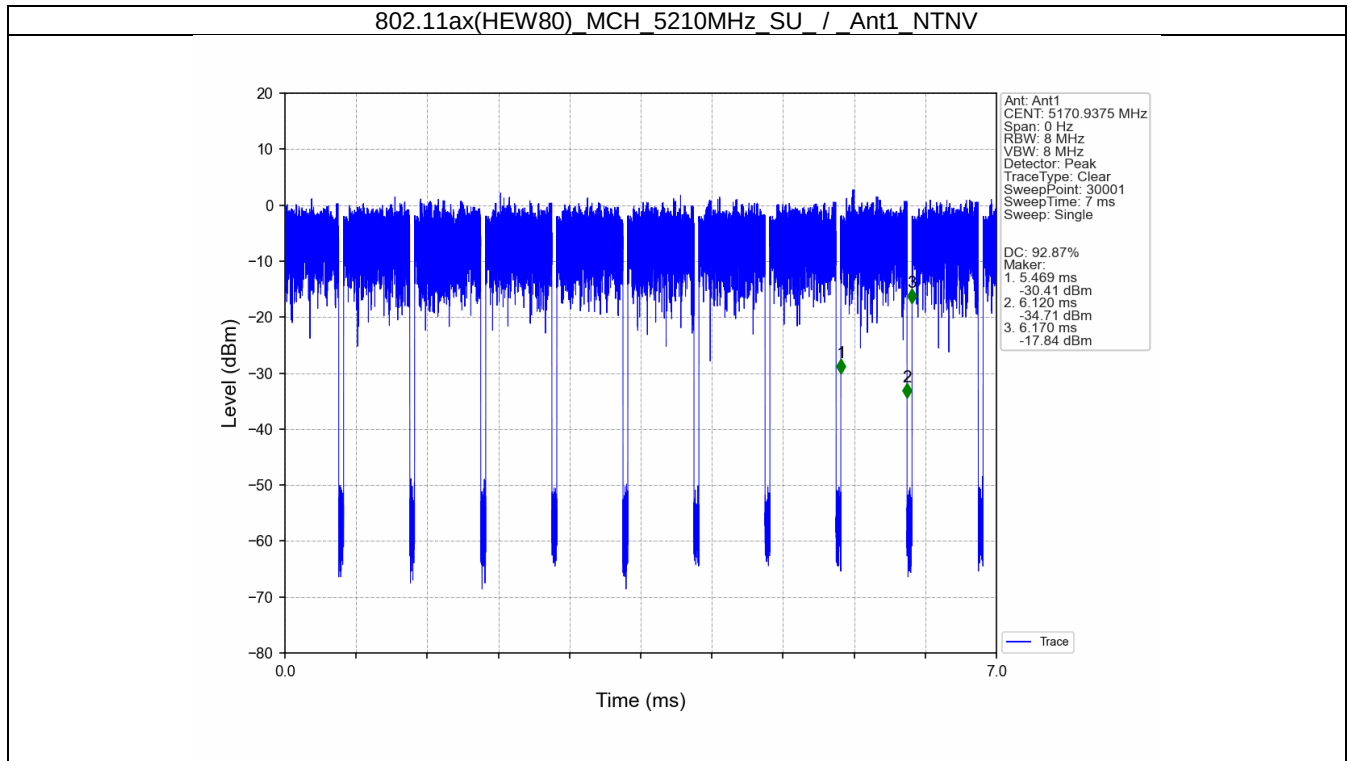


802.11ax(HEW20)_LCH_5180MHz_SU_ / _Ant1_NTNV



802.11ax(HEW40)_LCH_5190MHz_SU_ / _Ant1_NTNV





2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	16.686	/	Pass
		5200	/	/	1	16.677	/	Pass
		5240	/	/	1	16.616	/	Pass
		5745	/	/	1	16.665	/	Pass
		5785	/	/	1	16.690	/	Pass
		5825	/	/	1	16.655	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	17.735	/	Pass
		5200	/	/	1	17.737	/	Pass
		5240	/	/	1	17.731	/	Pass
		5745	/	/	1	17.723	/	Pass
		5785	/	/	1	17.699	/	Pass
		5825	/	/	1	17.718	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	36.125	/	Pass
		5230	/	/	1	36.214	/	Pass
		5755	/	/	1	36.096	/	Pass
		5795	/	/	1	36.136	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	17.703	/	Pass
		5200	/	/	1	17.741	/	Pass
		5240	/	/	1	17.685	/	Pass
		5745	/	/	1	17.745	/	Pass
		5785	/	/	1	17.713	/	Pass
		5825	/	/	1	17.738	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	36.142	/	Pass
		5230	/	/	1	36.160	/	Pass
		5755	/	/	1	36.194	/	Pass
		5795	/	/	1	36.149	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	75.211	/	Pass
		5775	/	/	1	75.084	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	18.980	/	Pass
		5200	SU	/	1	18.880	/	Pass
		5240	SU	/	1	18.836	/	Pass
		5745	SU	/	1	18.962	/	Pass
		5785	SU	/	1	18.898	/	Pass
		5825	SU	/	1	18.939	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	37.718	/	Pass
		5230	SU	/	1	37.620	/	Pass
		5755	SU	/	1	37.629	/	Pass
		5795	SU	/	1	37.545	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	76.569	/	Pass
		5775	SU	/	1	76.644	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	

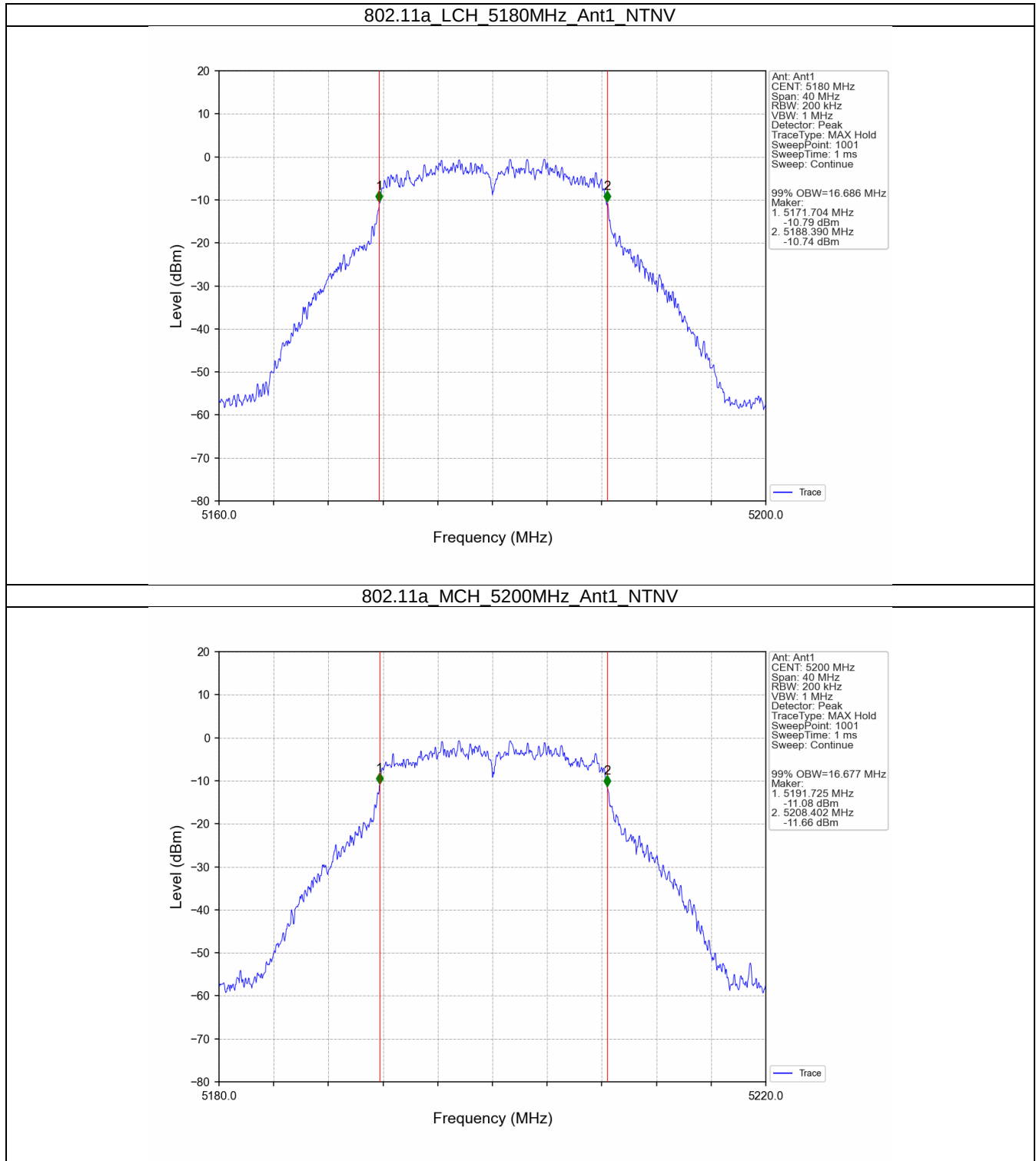
802.11a	SISO	5180	/	/	1	23.790	/	Pass
		5200	/	/	1	24.078	/	Pass
		5240	/	/	1	23.032	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	24.030	/	Pass
		5200	/	/	1	24.037	/	Pass
		5240	/	/	1	23.998	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	42.720	/	Pass
		5230	/	/	1	43.017	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	23.727	/	Pass
		5200	/	/	1	24.104	/	Pass
		5240	/	/	1	23.878	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	43.358	/	Pass
		5230	/	/	1	42.743	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	84.016	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	23.796	/	Pass
		5200	SU	/	1	23.148	/	Pass
		5240	SU	/	1	23.215	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	44.000	/	Pass
		5230	SU	/	1	43.705	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	83.333	/	Pass

2.1.3 6dB BW

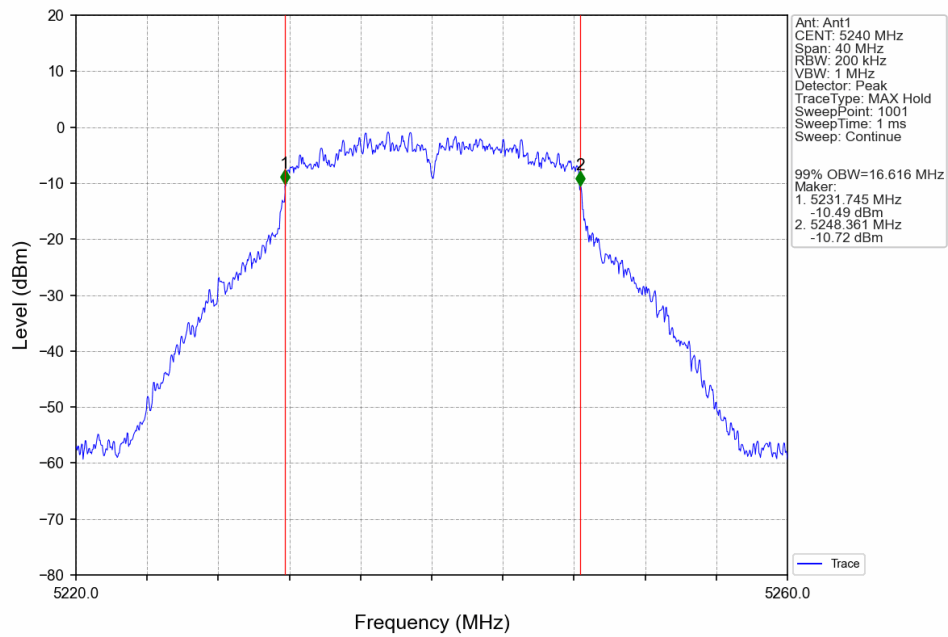
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	15.108	>=0.5	Pass
		5785	/	/	1	15.085	>=0.5	Pass
		5825	/	/	1	15.045	>=0.5	Pass
802.11n (HT20)	SISO	5745	/	/	1	15.160	>=0.5	Pass
		5785	/	/	1	15.158	>=0.5	Pass
		5825	/	/	1	15.093	>=0.5	Pass
802.11n (HT40)	SISO	5755	/	/	1	35.078	>=0.5	Pass
		5795	/	/	1	35.133	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	15.109	>=0.5	Pass
		5785	/	/	1	15.144	>=0.5	Pass
		5825	/	/	1	15.183	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	33.894	>=0.5	Pass
		5795	/	/	1	35.070	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	/	/	1	72.623	>=0.5	Pass
802.11ax (HEW20)	SISO	5745	SU	/	1	15.386	>=0.5	Pass
		5785	SU	/	1	16.776	>=0.5	Pass
		5825	SU	/	1	15.161	>=0.5	Pass
802.11ax (HEW40)	SISO	5755	SU	/	1	33.904	>=0.5	Pass
		5795	SU	/	1	36.044	>=0.5	Pass
802.11ax (HEW80)	SISO	5775	SU	/	1	73.868	>=0.5	Pass

2.2 Test Graph

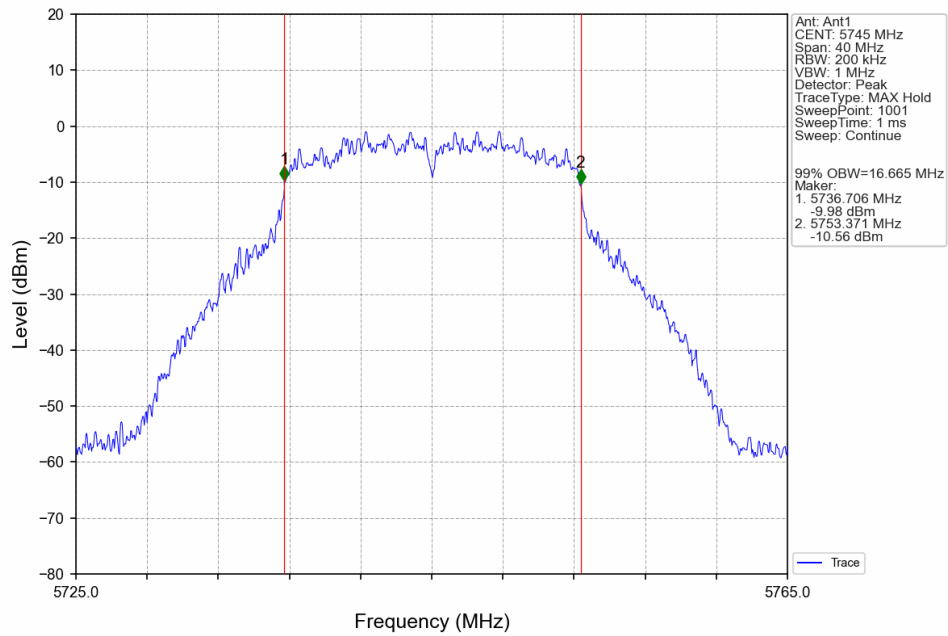
2.2.1 OBW



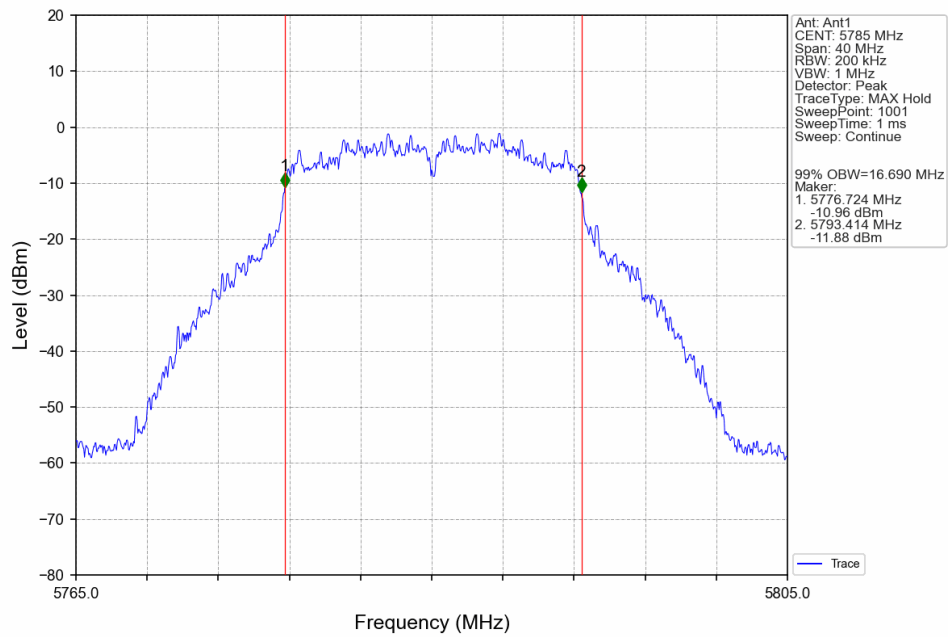
802.11a_HCH_5240MHz_Ant1_NTNV



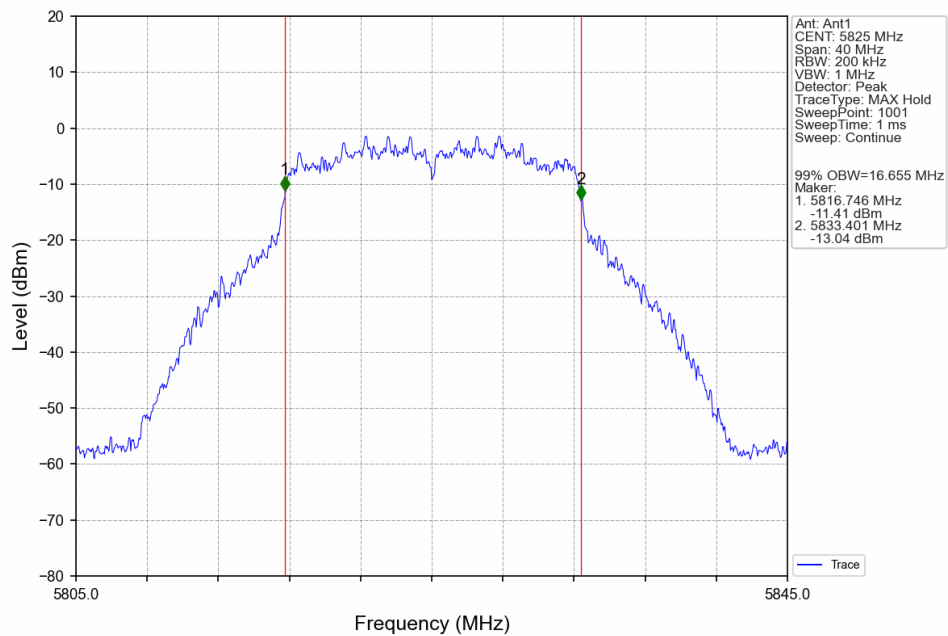
802.11a_LCH_5745MHz_Ant1_NTNV



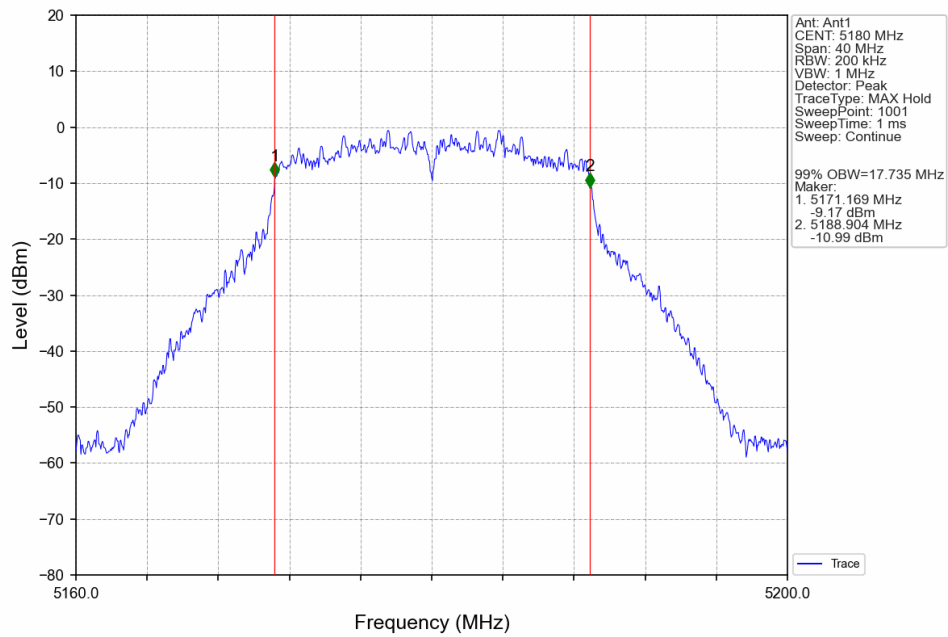
802.11a_MCH_5785MHz_Ant1_NTNV



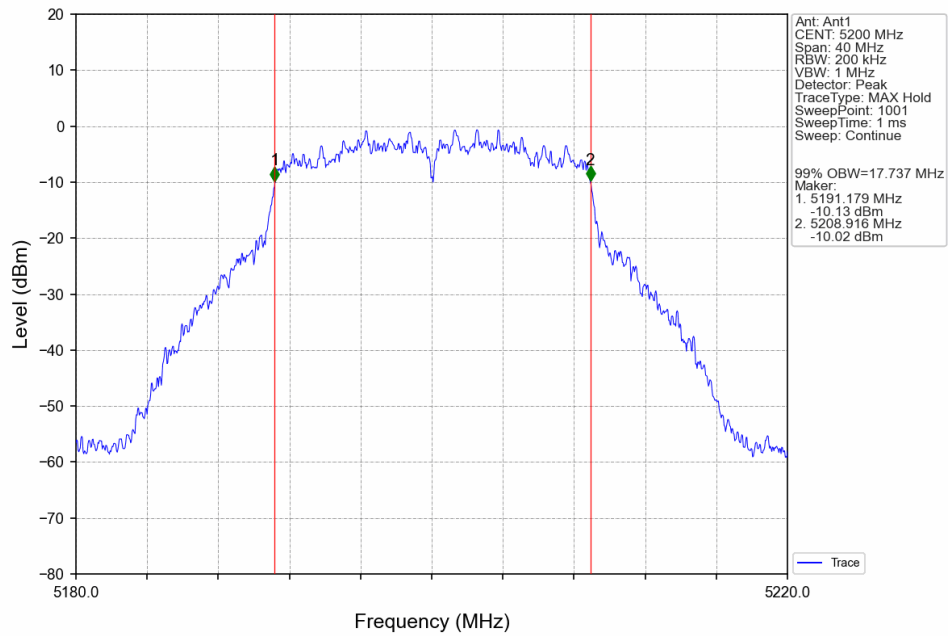
802.11a_HCH_5825MHz_Ant1_NTNV



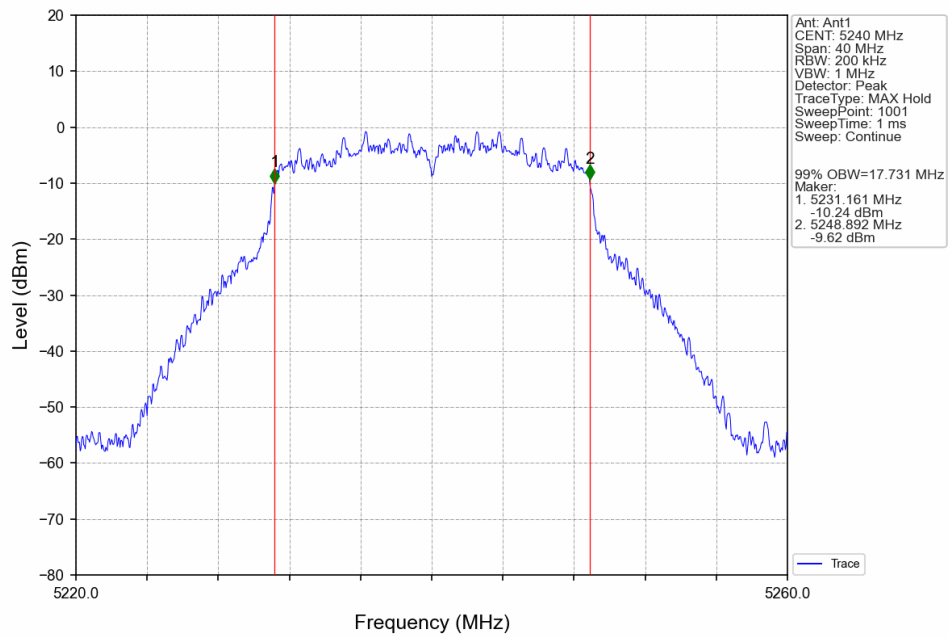
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



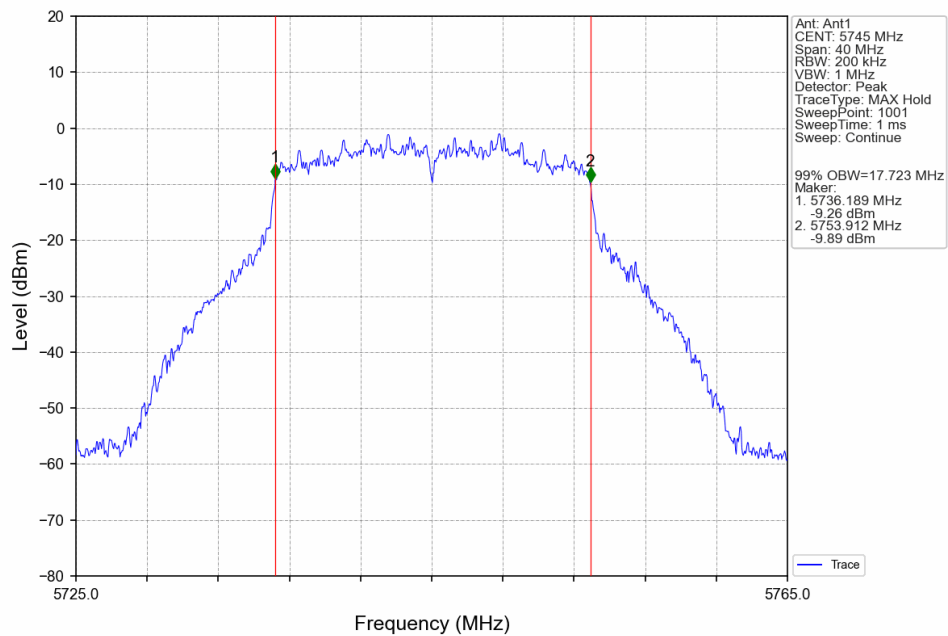
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



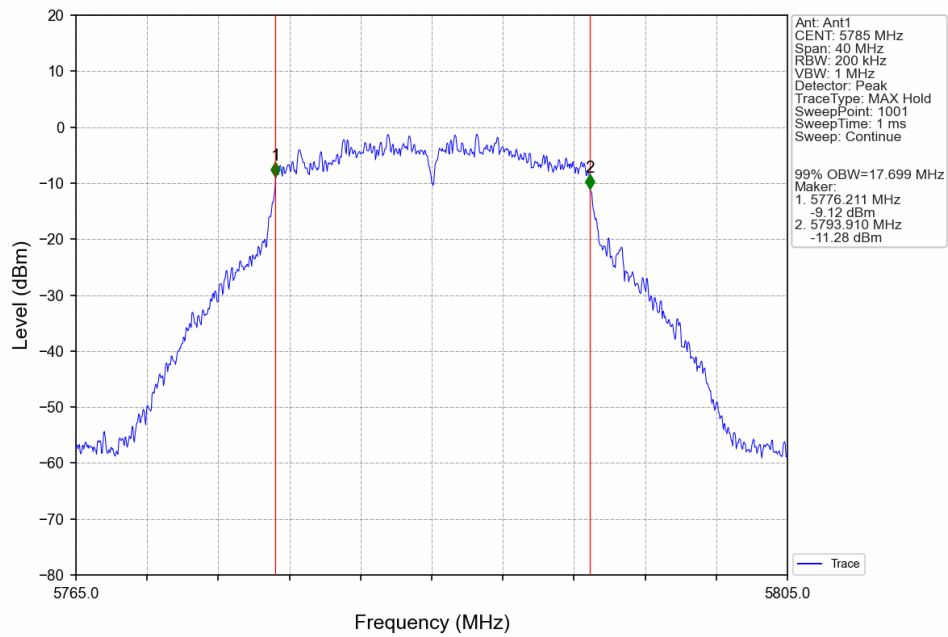
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



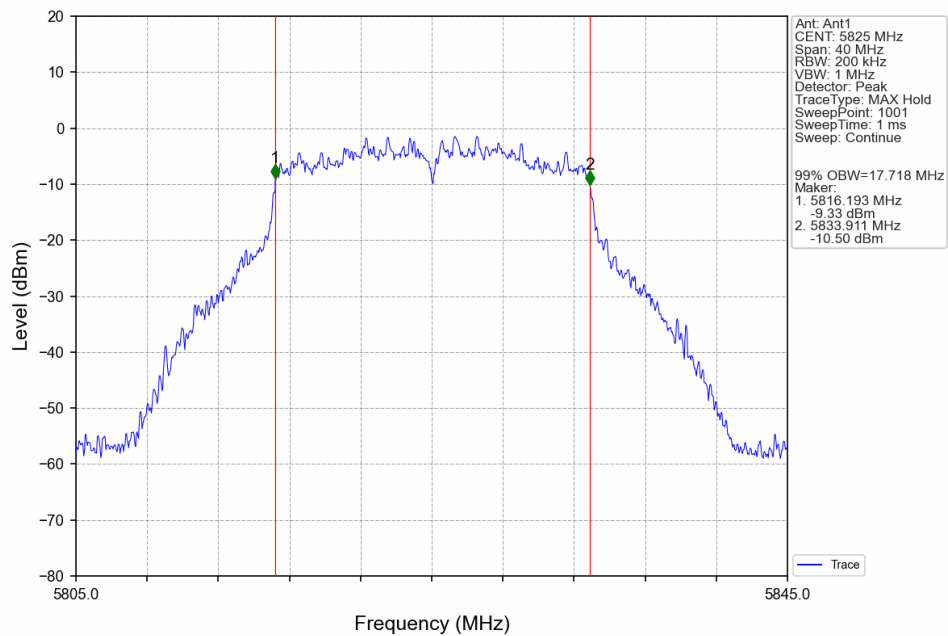
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



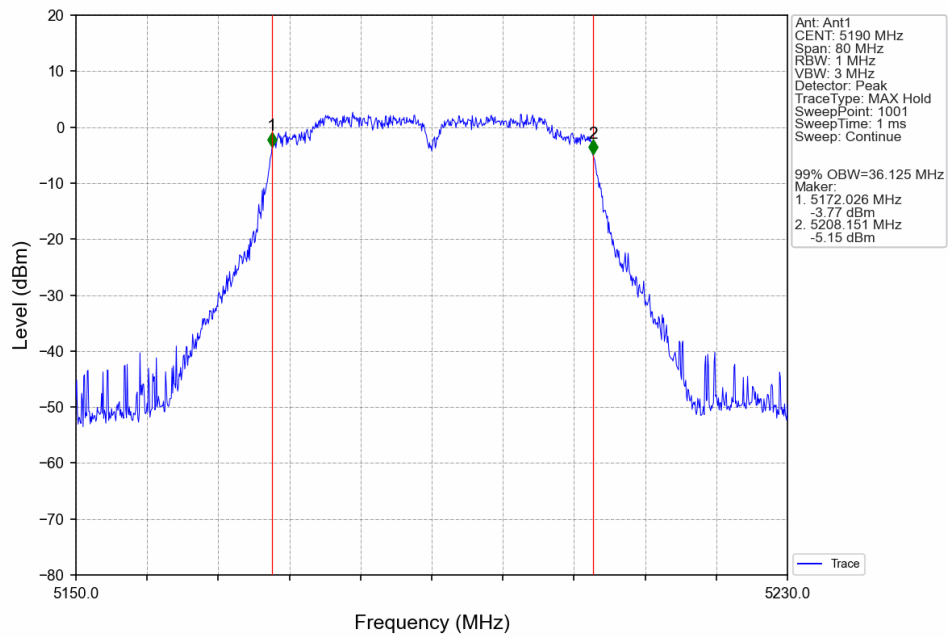
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



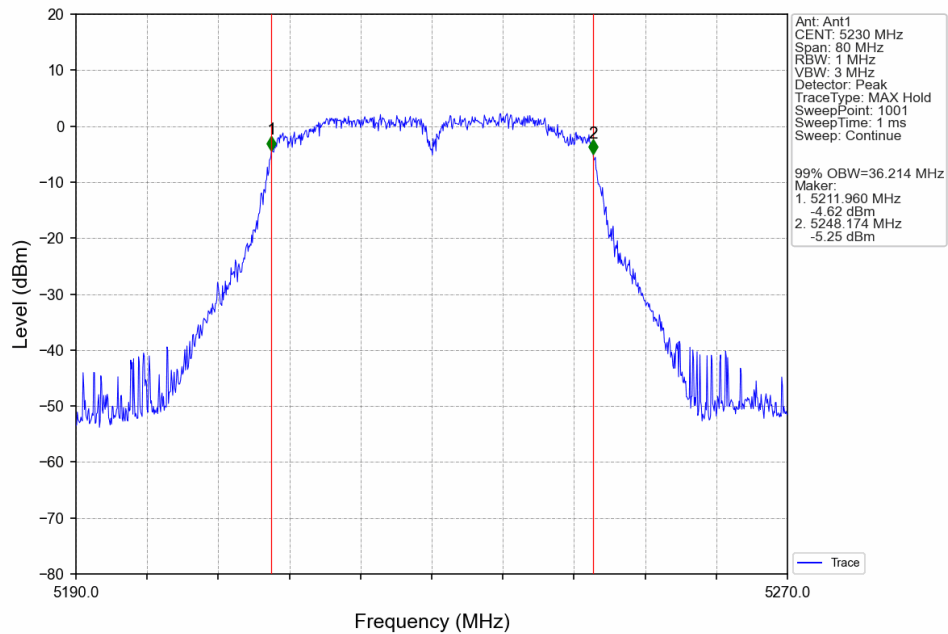
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



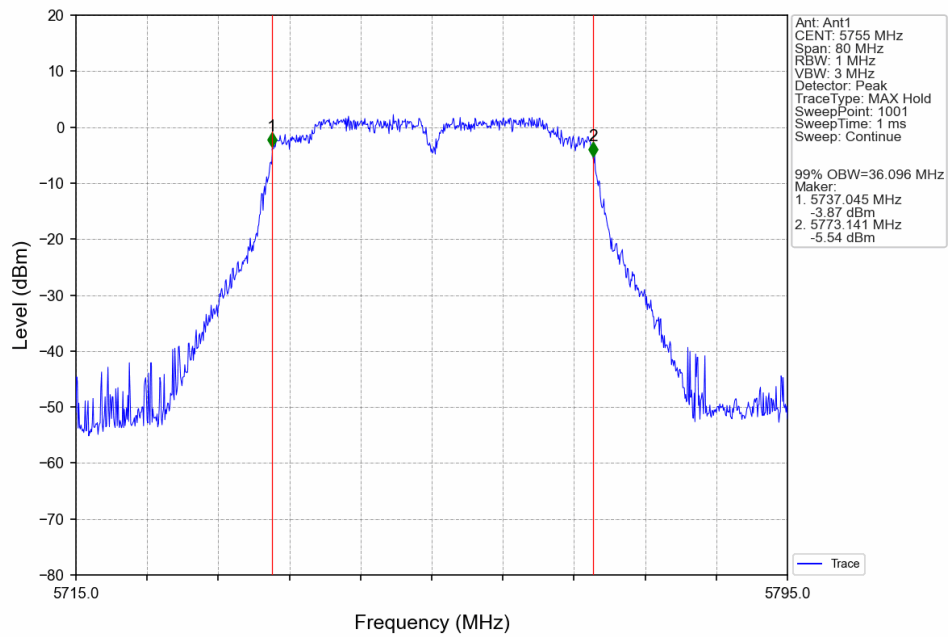
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



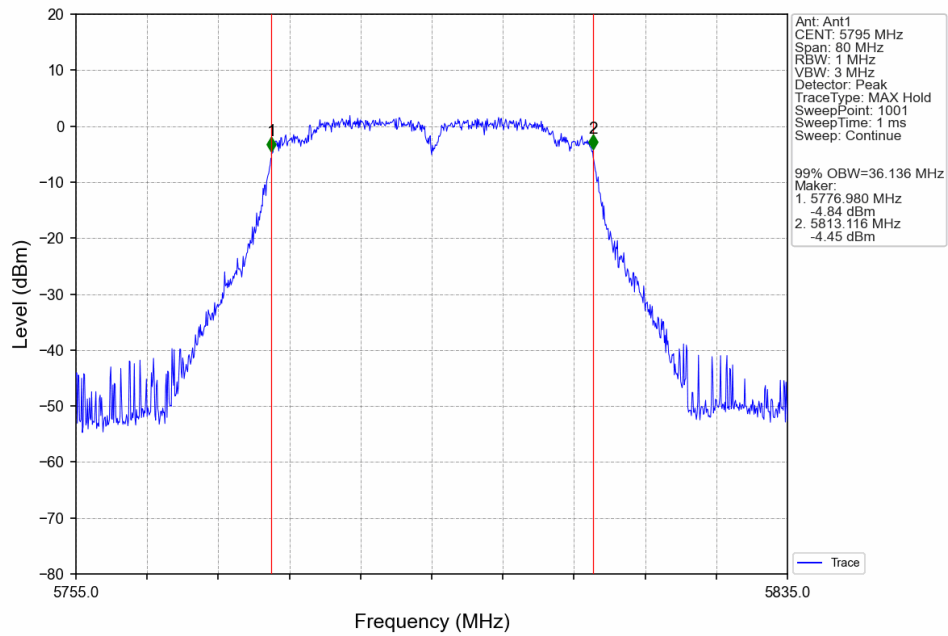
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



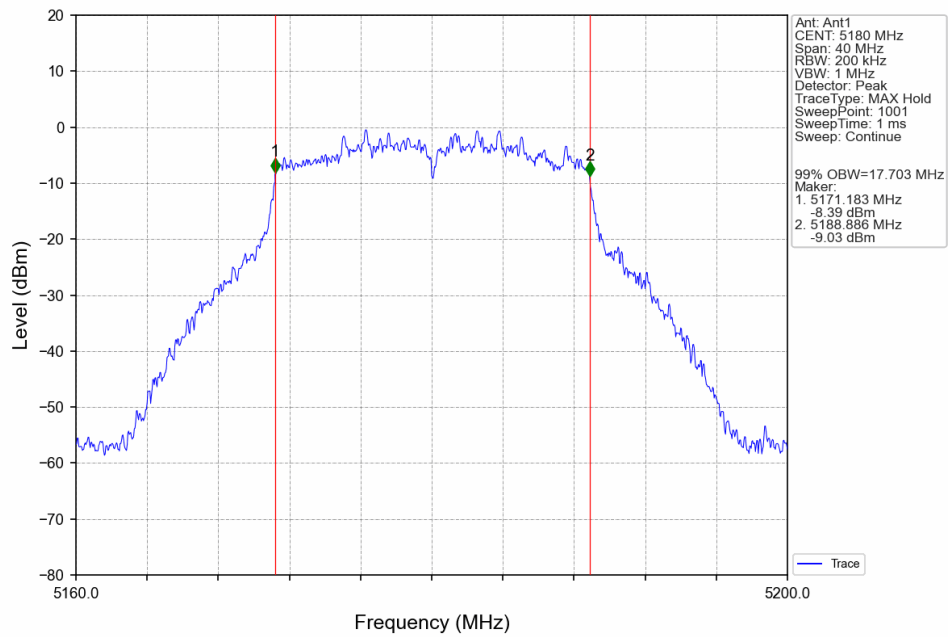
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



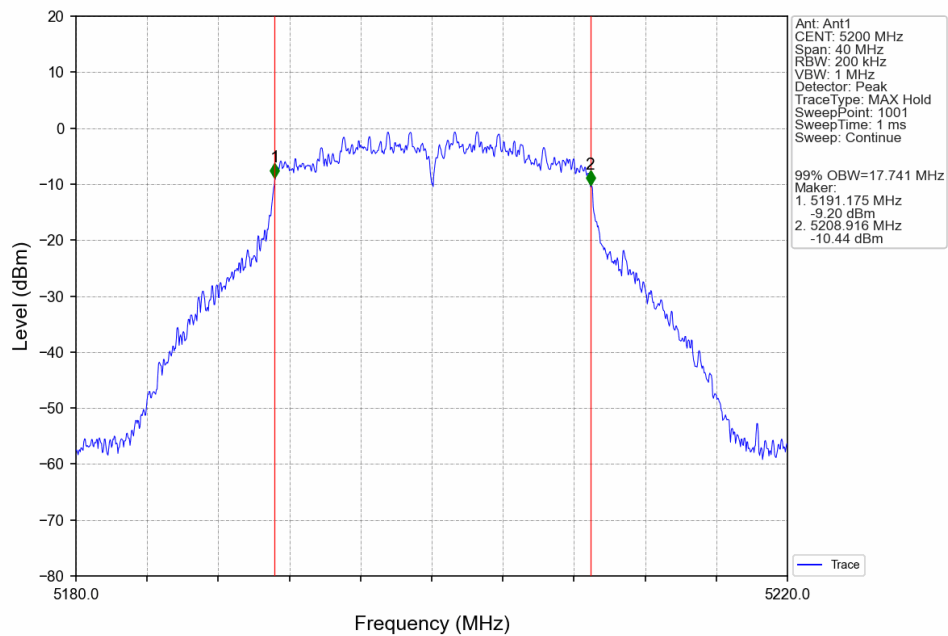
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



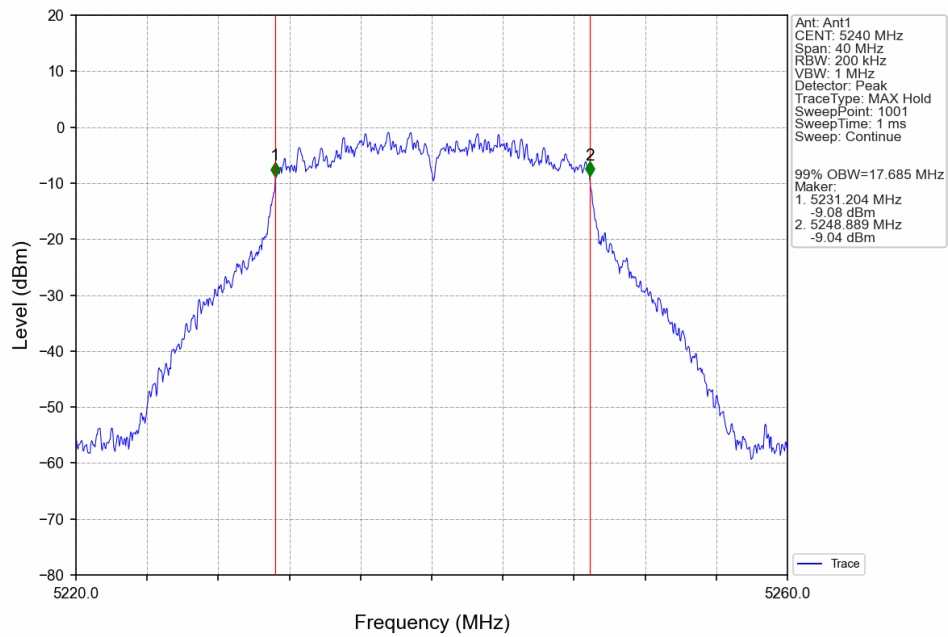
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



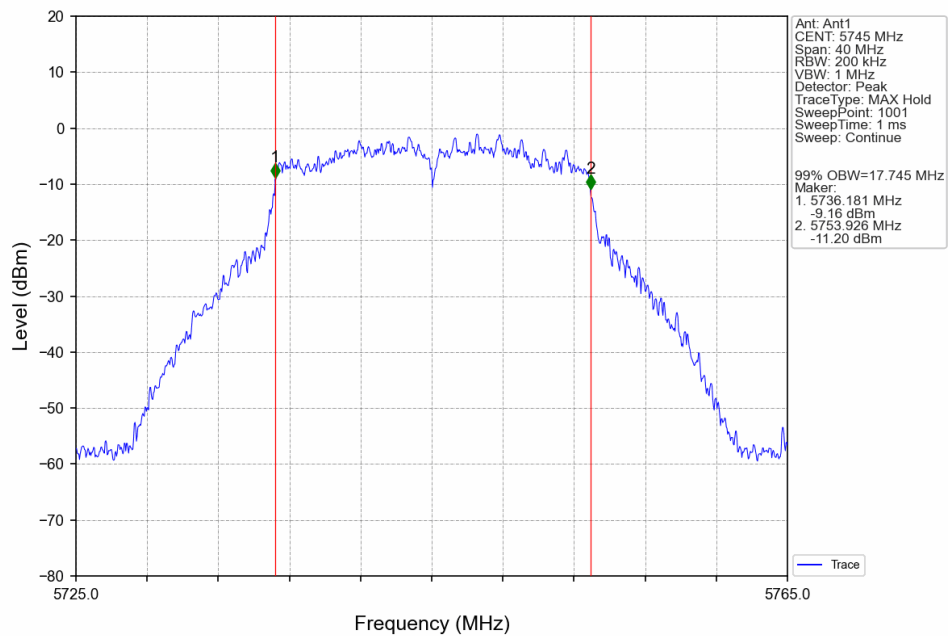
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



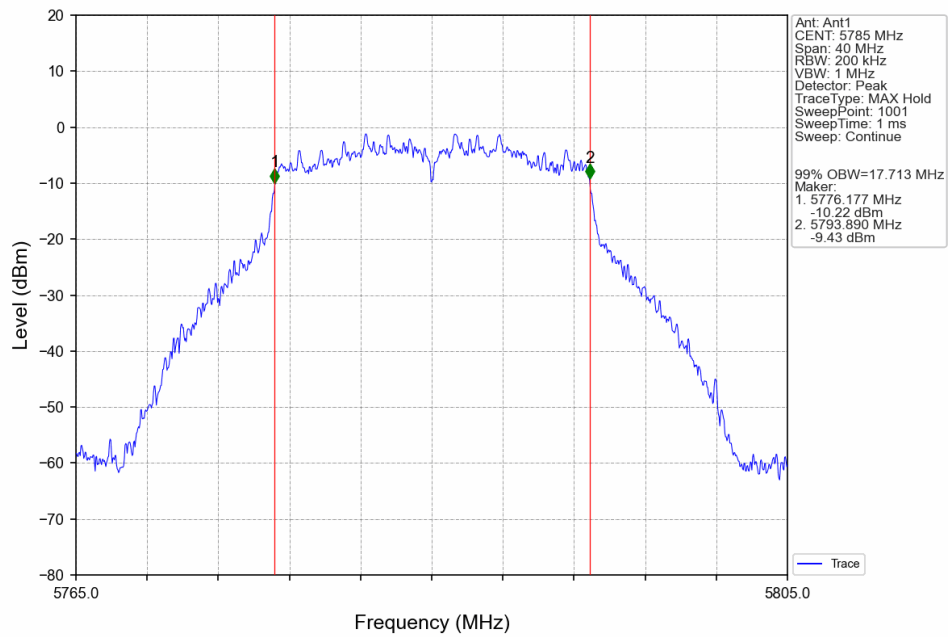
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



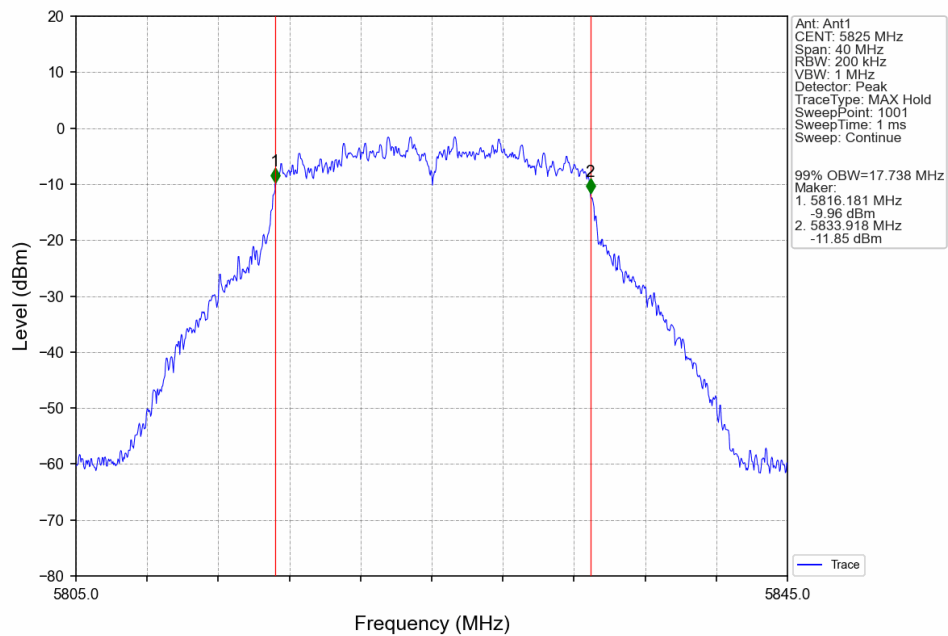
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



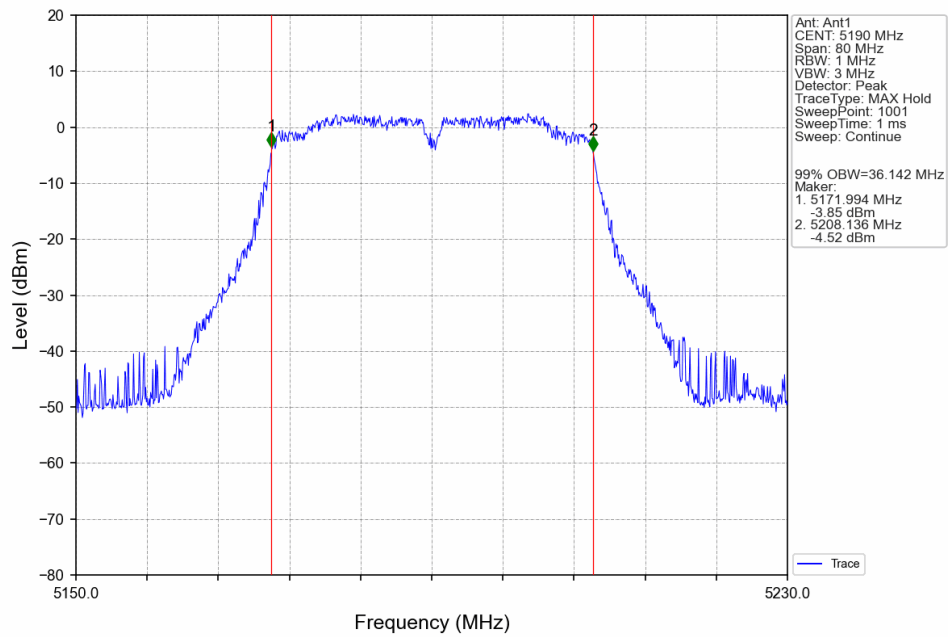
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



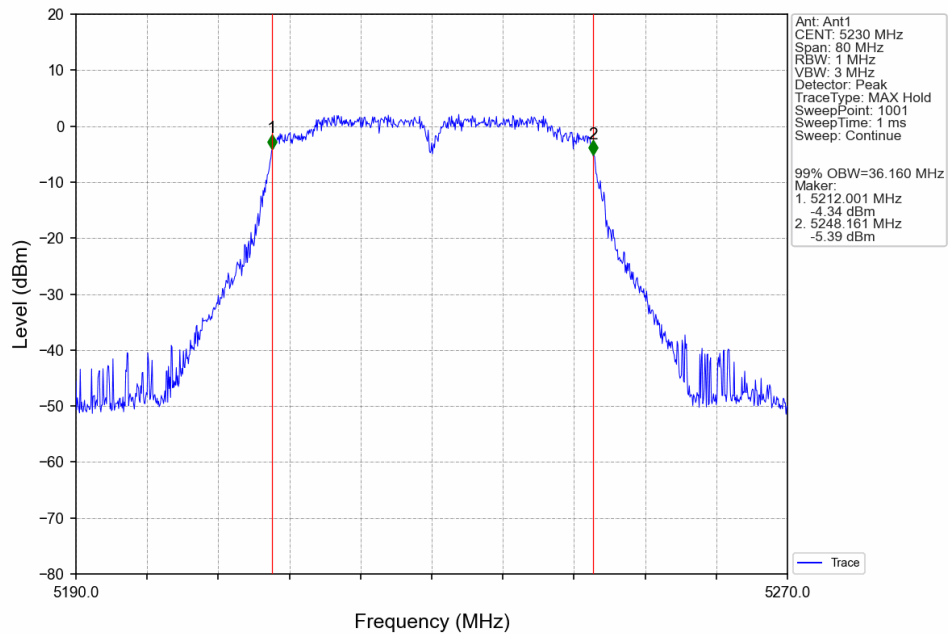
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



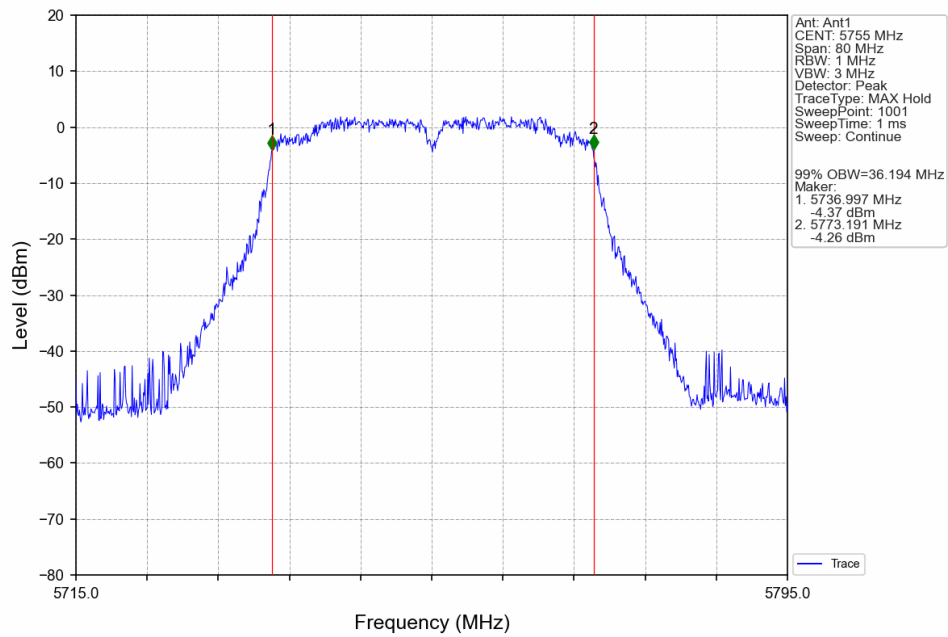
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



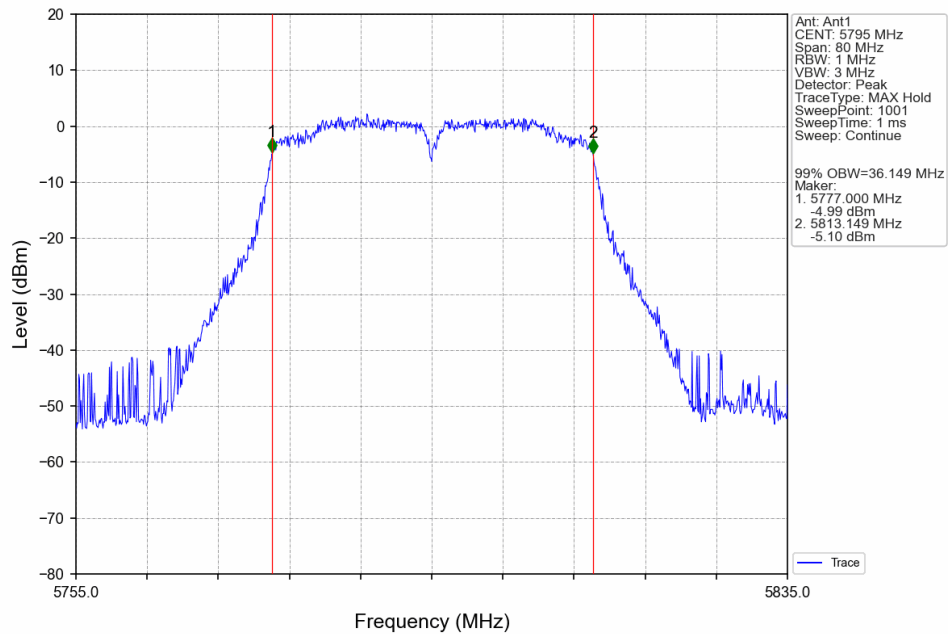
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



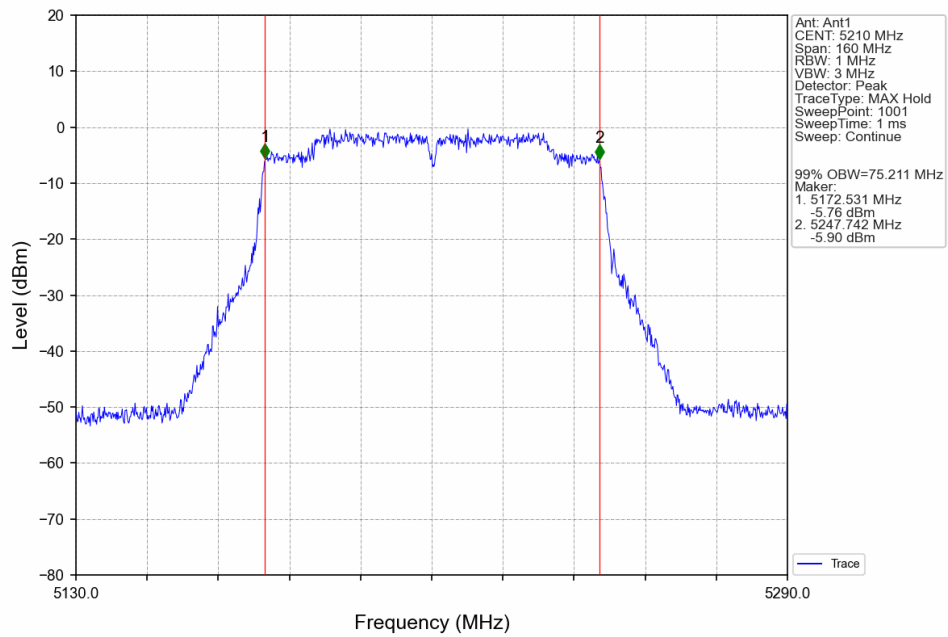
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



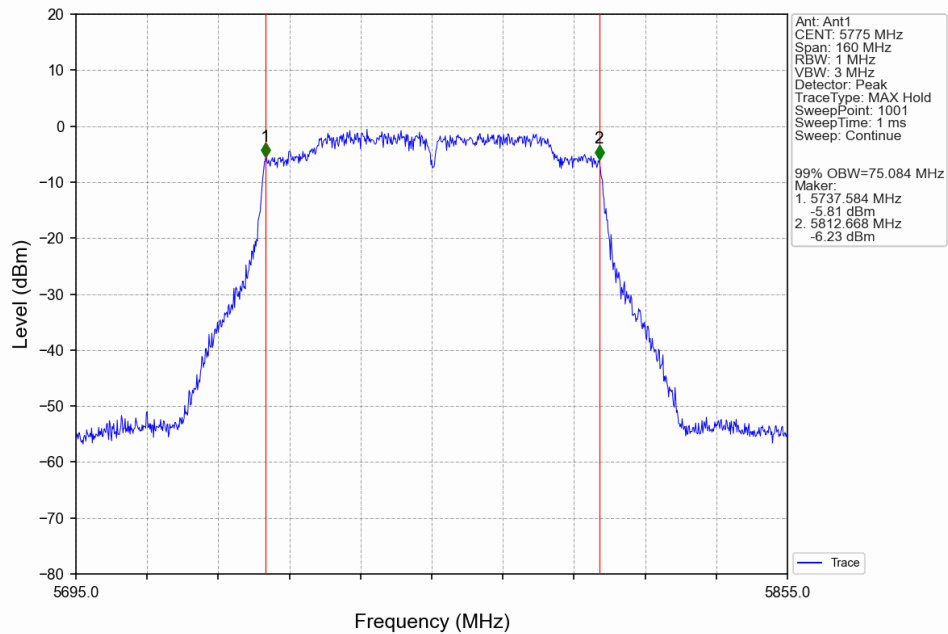
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



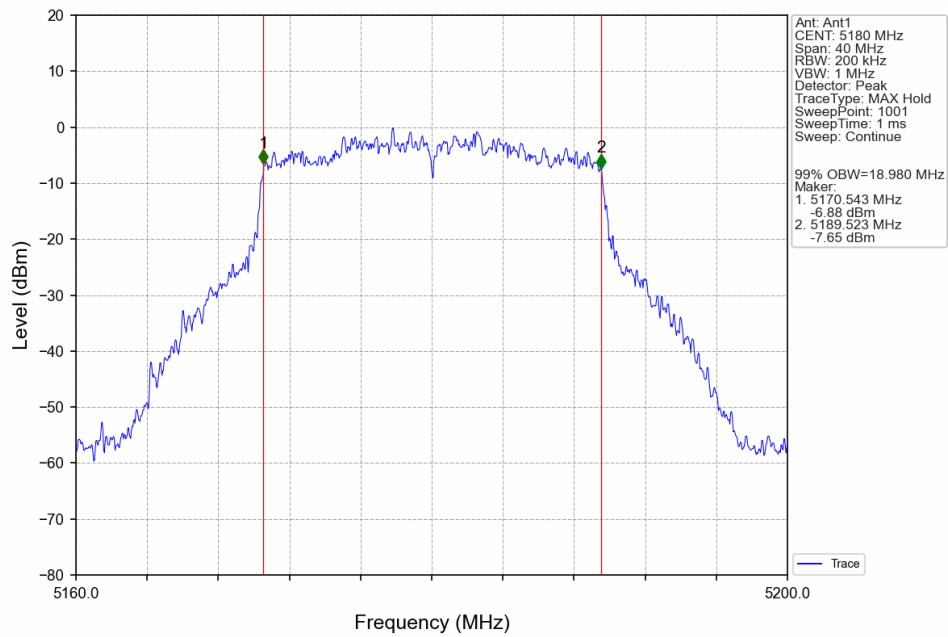
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



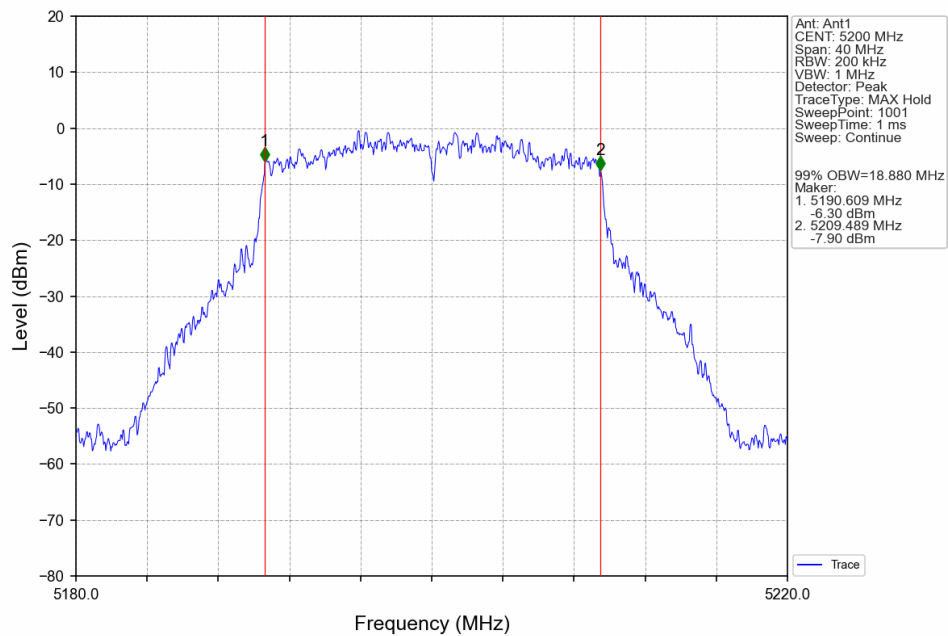
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



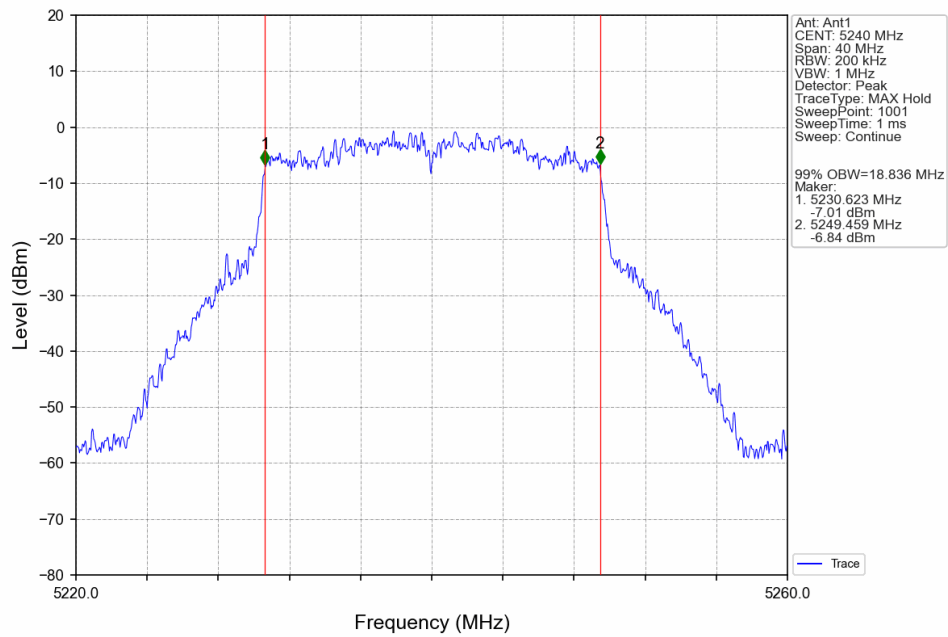
802.11ax(HEW20)_LCH_5180MHz_SU_ / _Ant1_NTNV



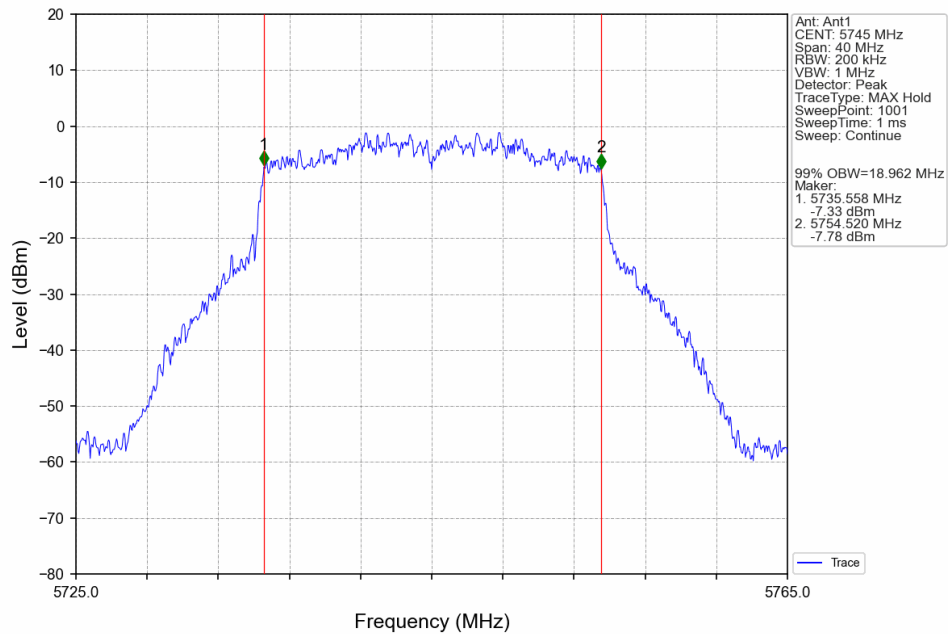
802.11ax(HEW20)_MCH_5200MHz_SU_ / _Ant1_NTNV



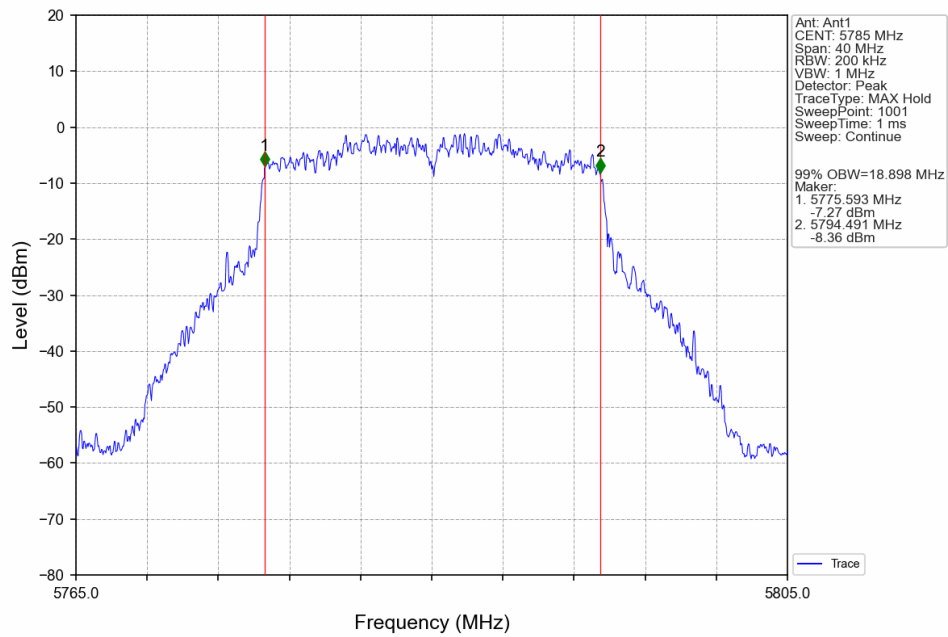
802.11ax(HEW20)_HCH_5240MHz_SU_/_Ant1_NTNV



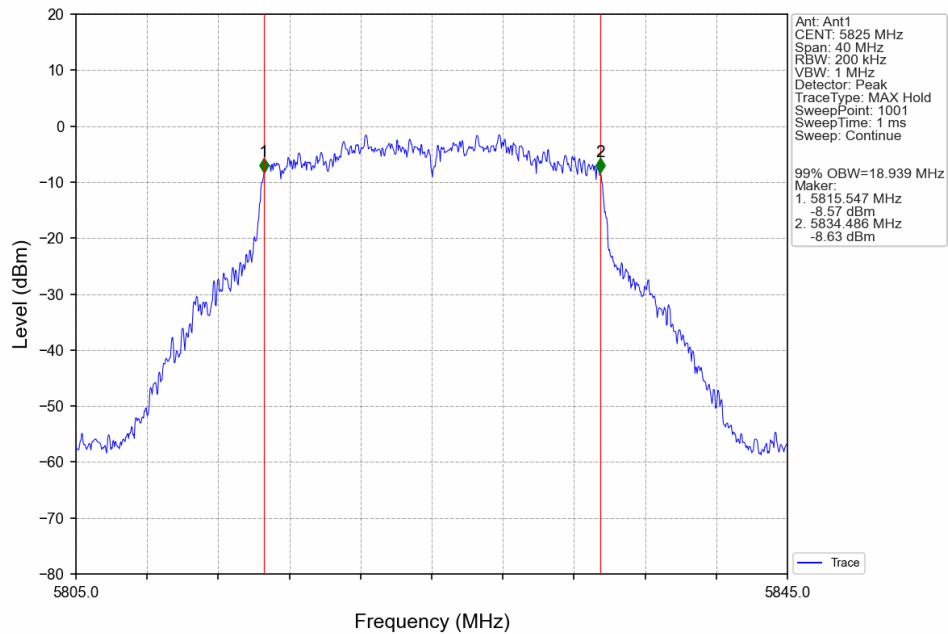
802.11ax(HEW20)_LCH_5745MHz_SU_/_Ant1_NTNV



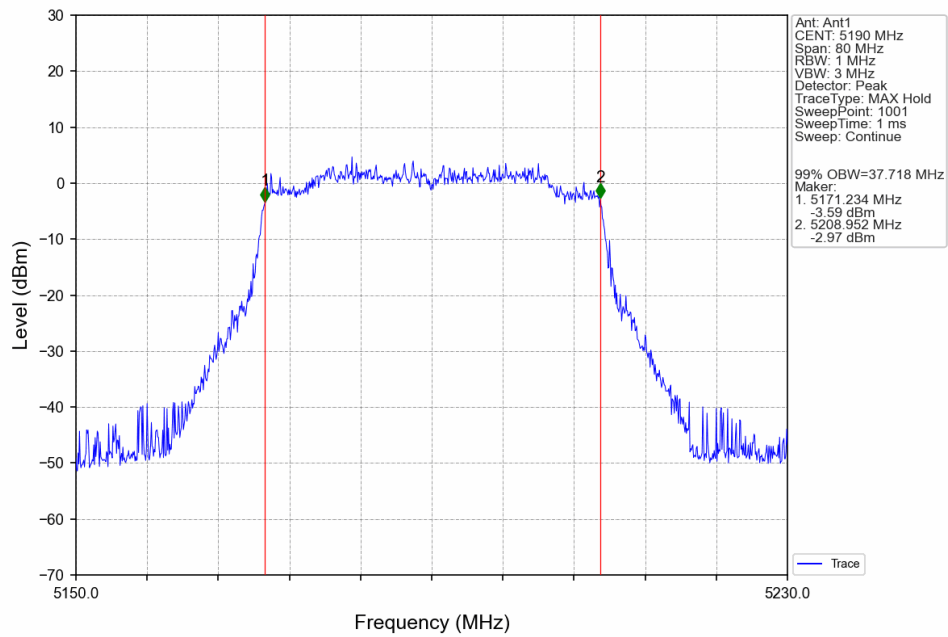
802.11ax(HEW20)_MCH_5785MHz_SU_ / _Ant1_NTNV



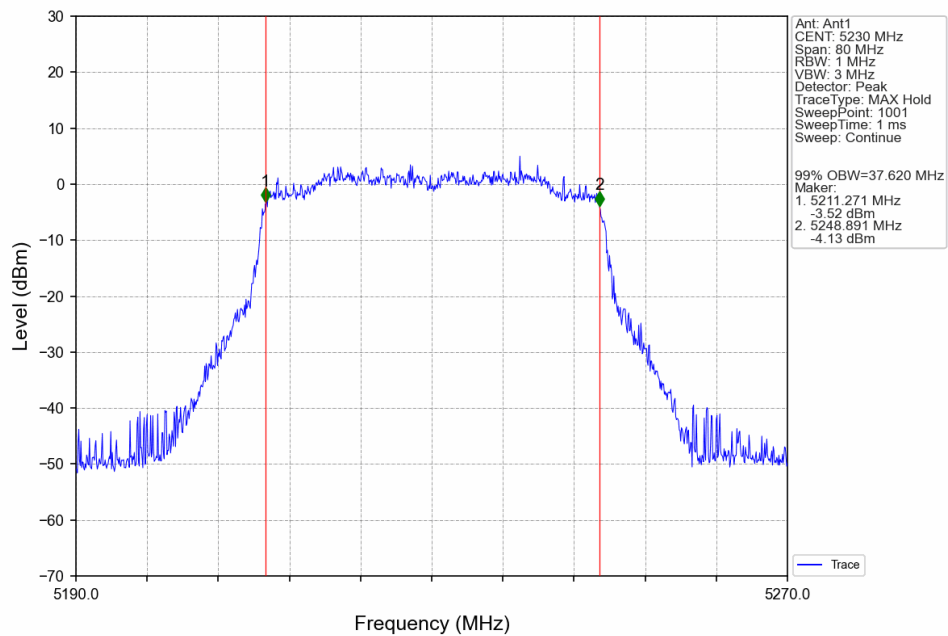
802.11ax(HEW20)_HCH_5825MHz_SU_ / _Ant1_NTNV



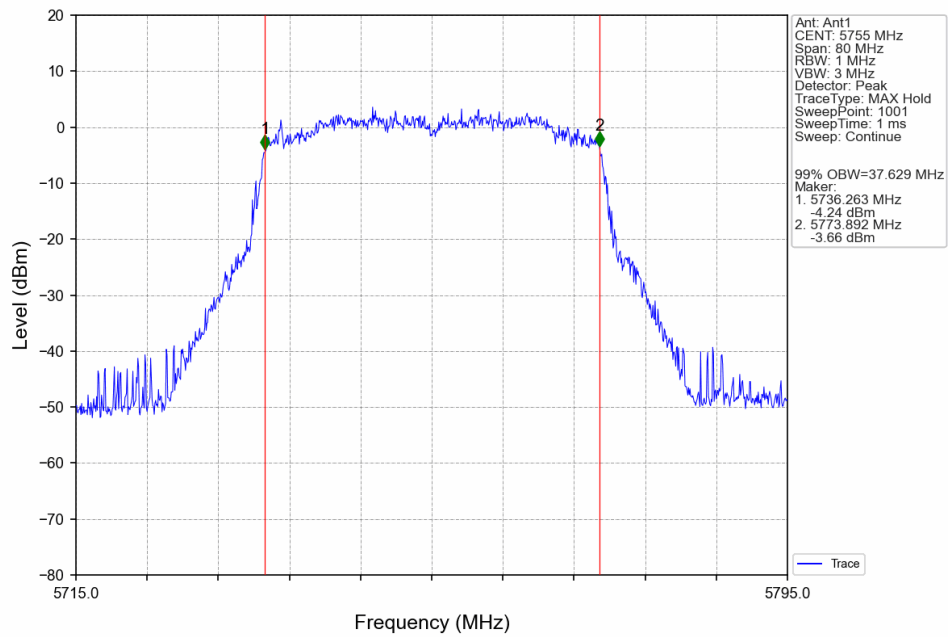
802.11ax(HEW40)_LCH_5190MHz_SU_ / Ant1_NTNV



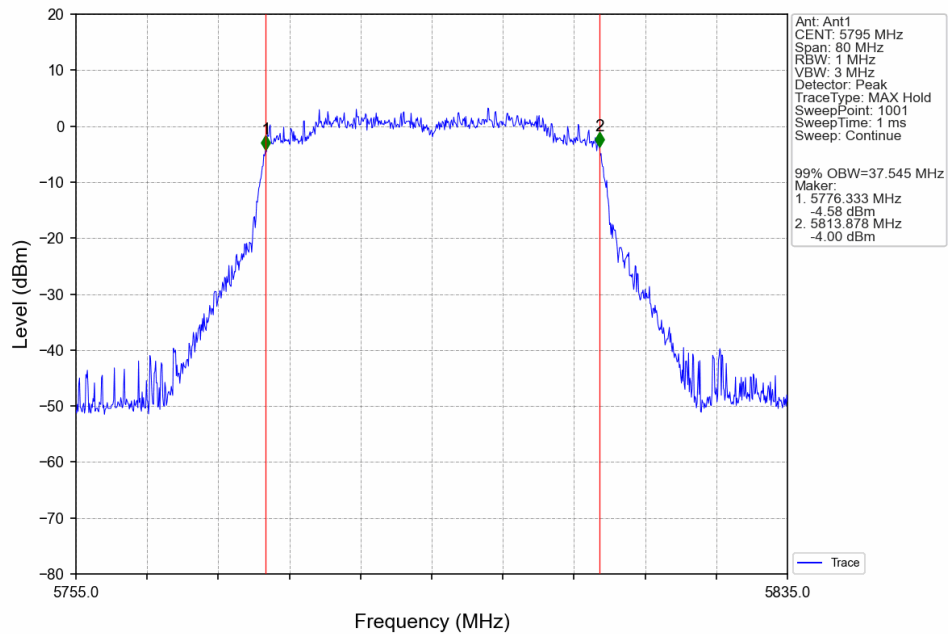
802.11ax(HEW40)_HCH_5230MHz_SU_ / Ant1_NTNV



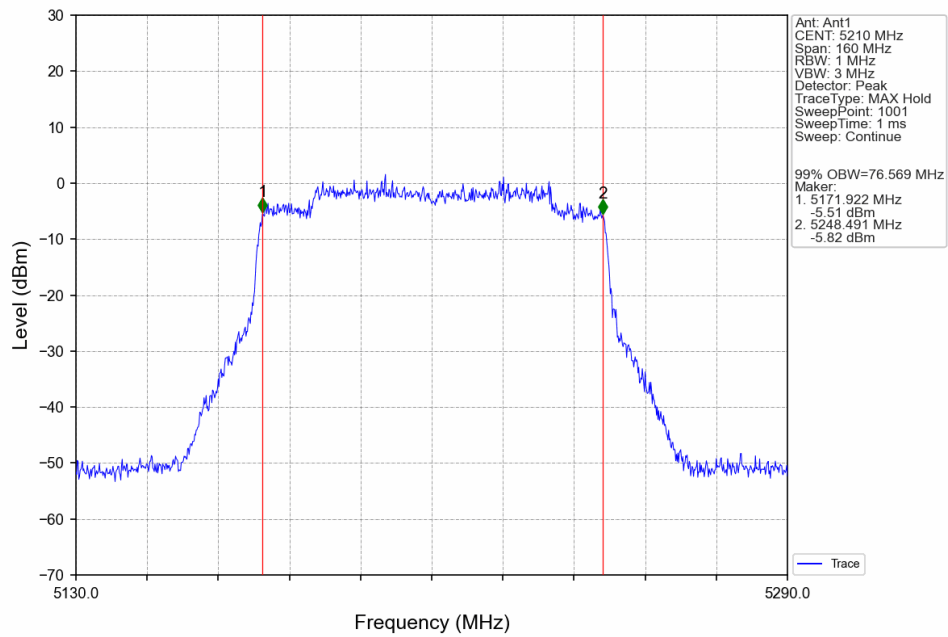
802.11ax(HEW40)_LCH_5755MHz_SU_ / _Ant1_NTNV



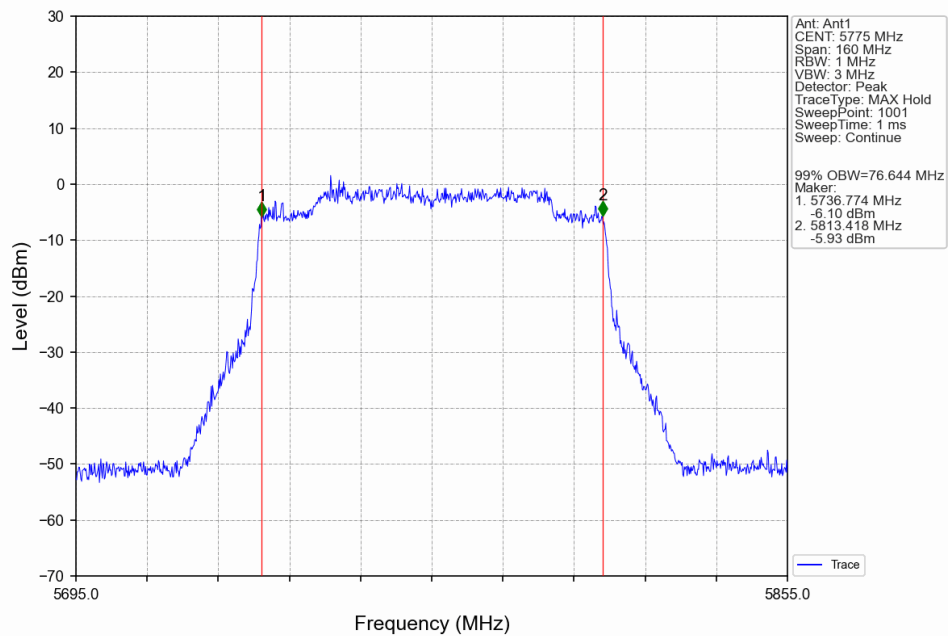
802.11ax(HEW40)_HCH_5795MHz_SU_ / _Ant1_NTNV



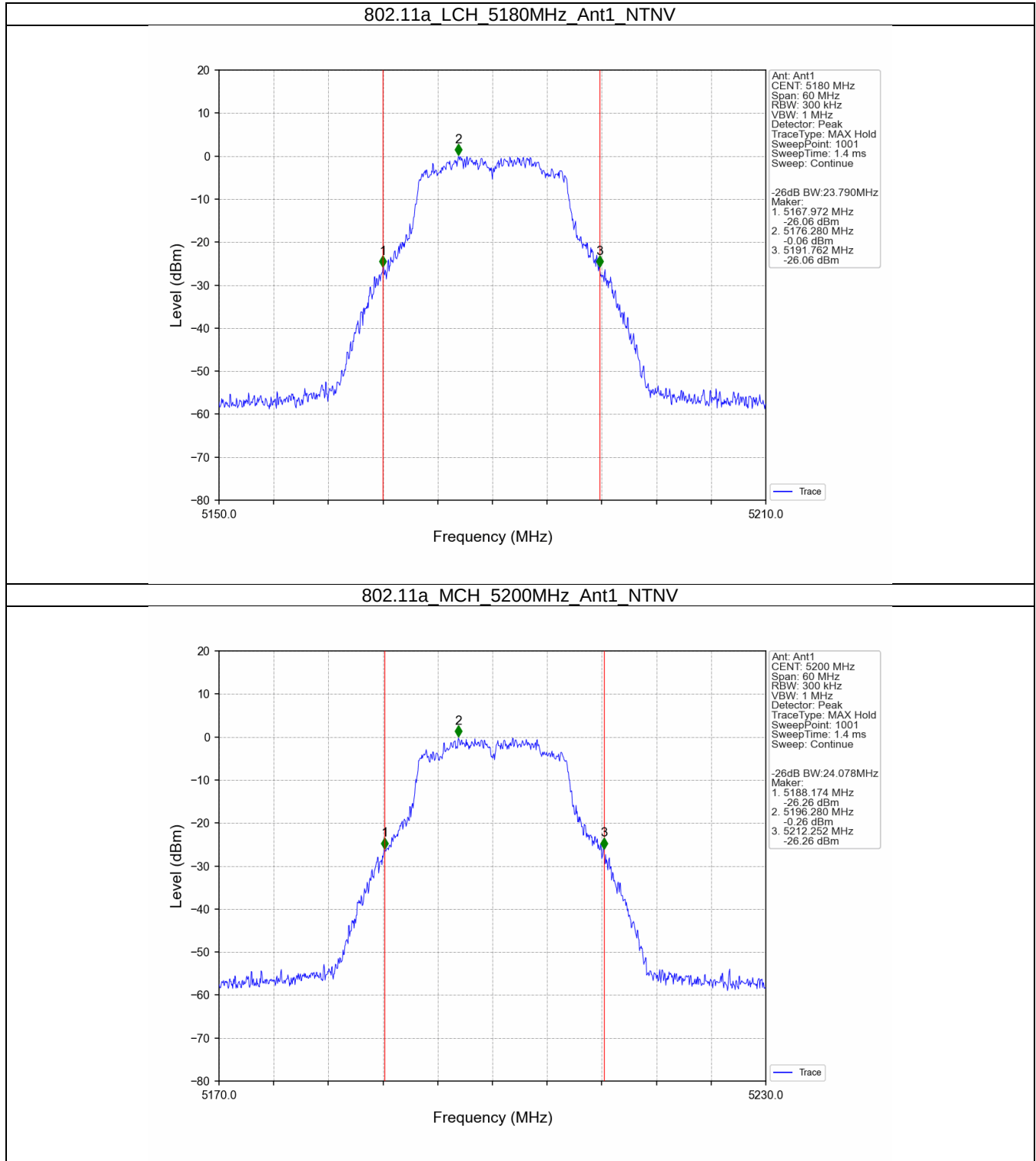
802.11ax(HEW80)_MCH_5210MHz_SU / _Ant1_NTNV



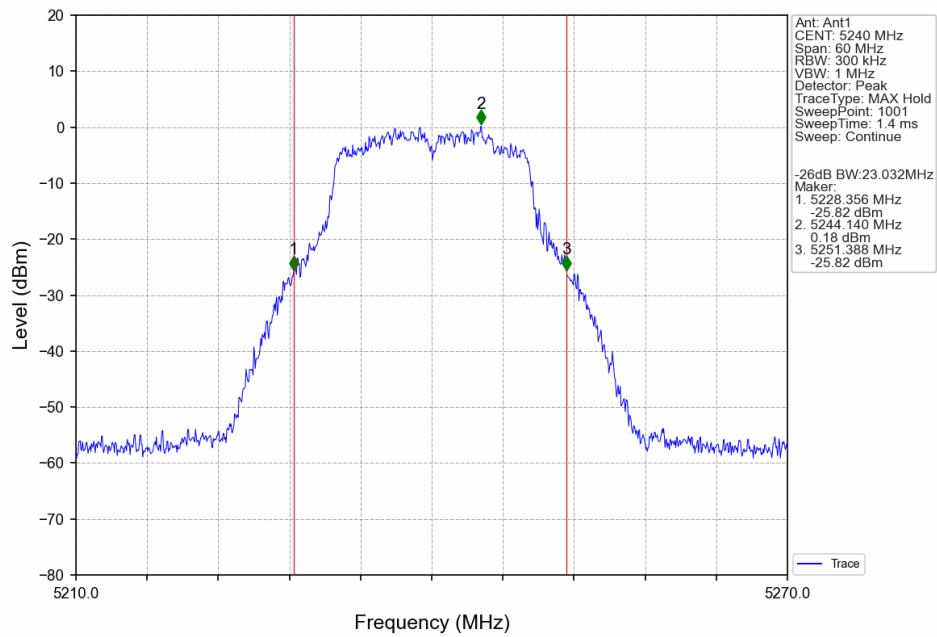
802.11ax(HEW80)_MCH_5775MHz_SU / _Ant1_NTNV



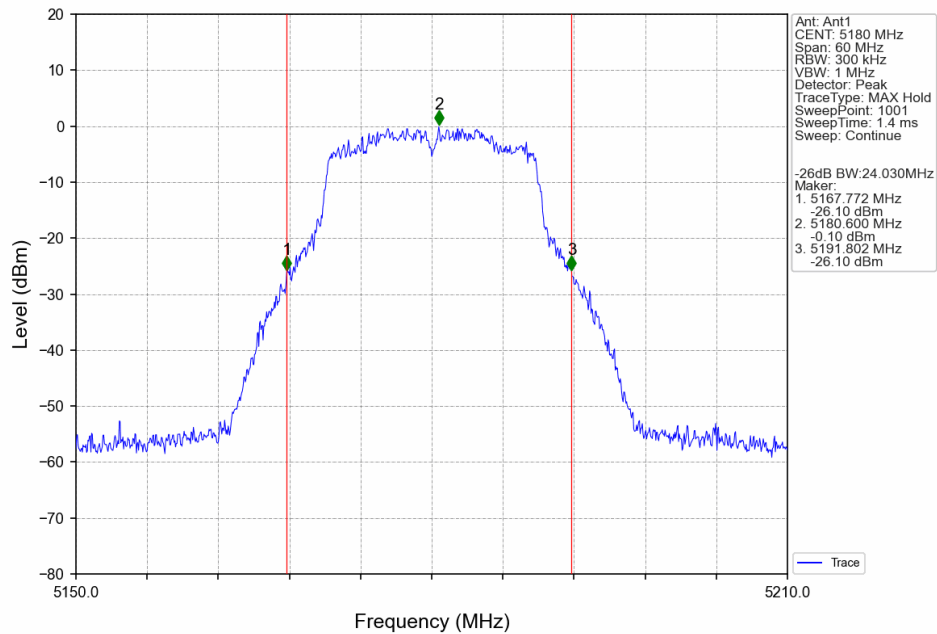
2.2.2 26dB BW



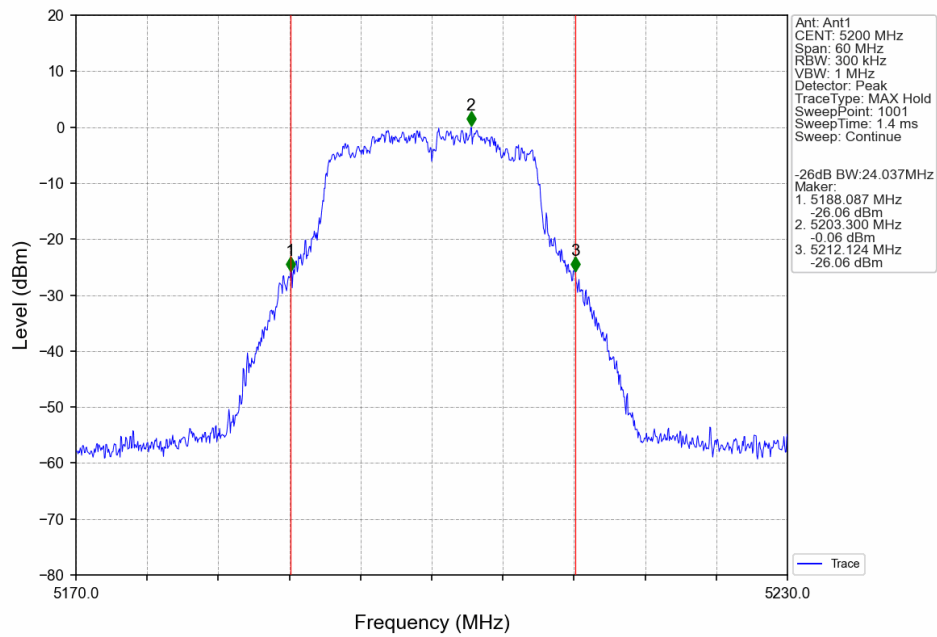
802.11a_HCH_5240MHz_Ant1_NTNV



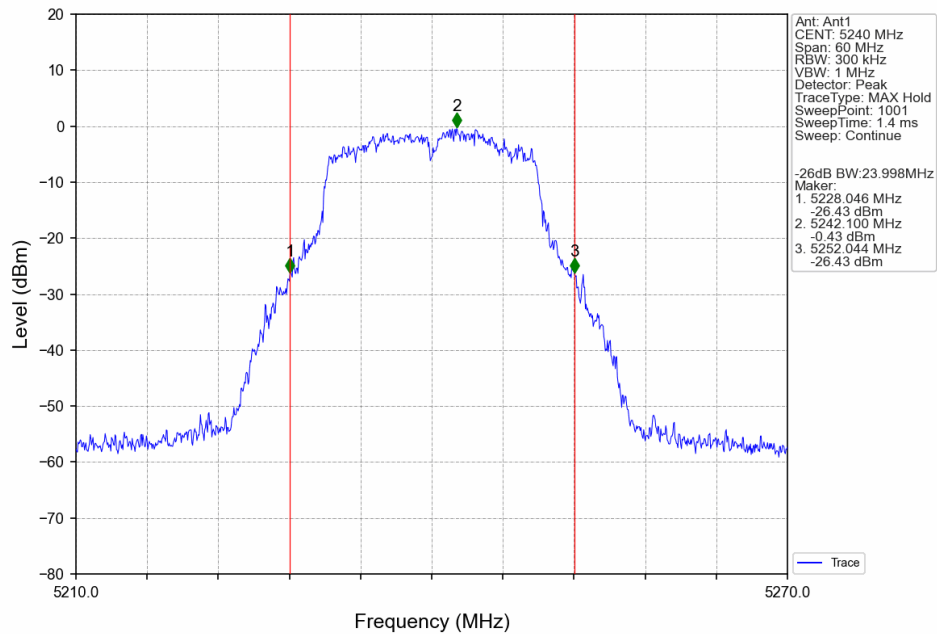
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



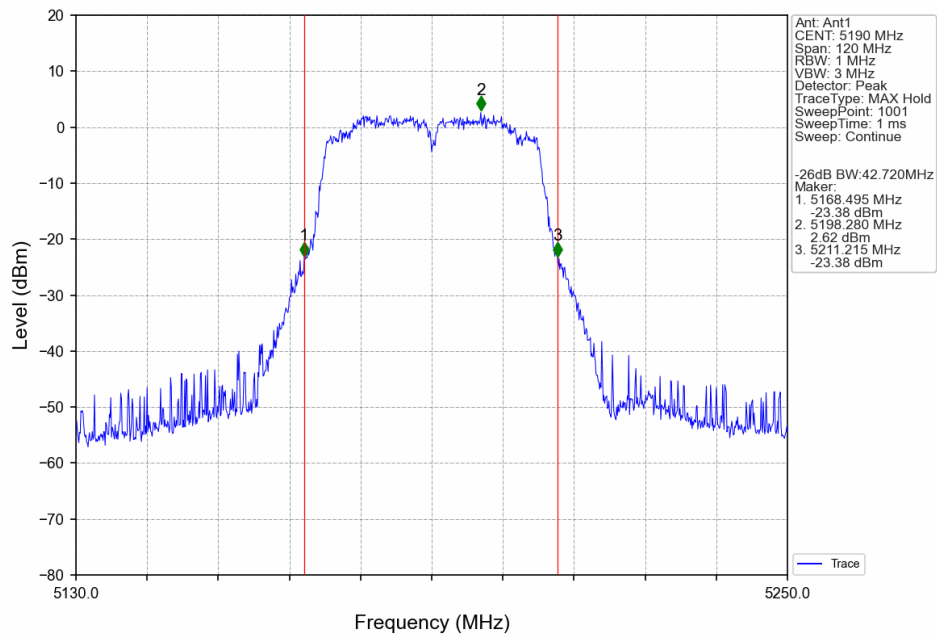
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



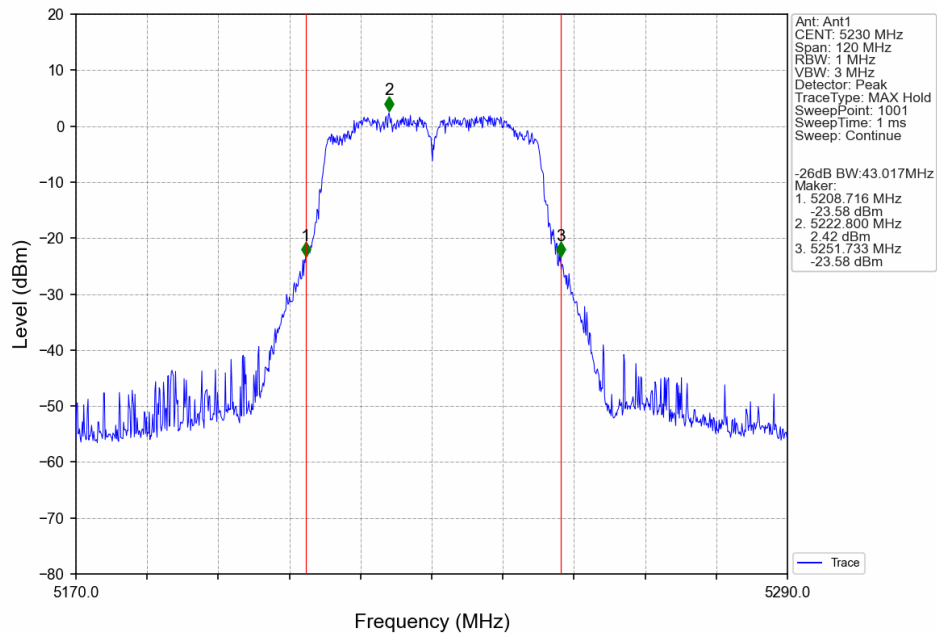
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



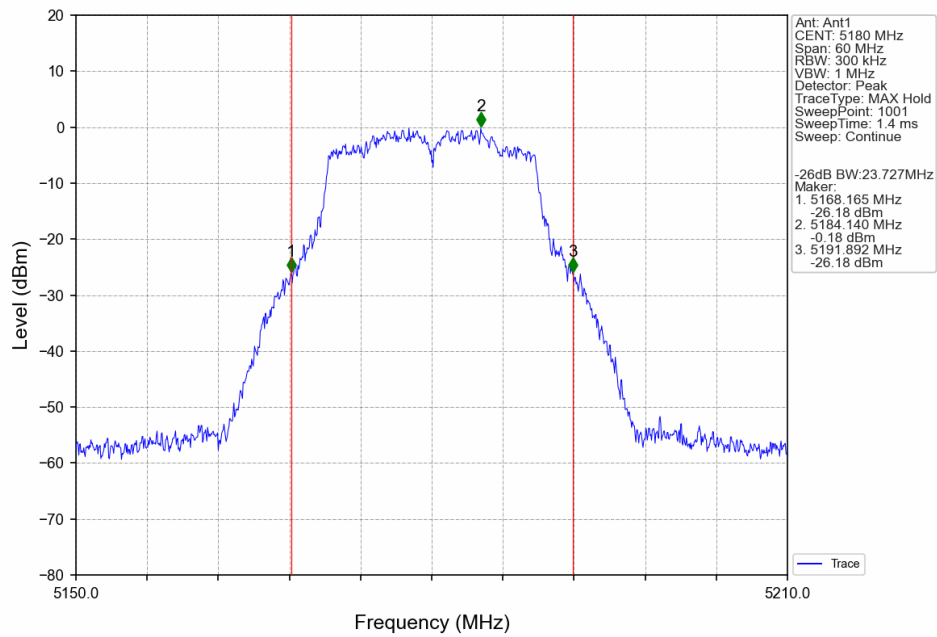
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



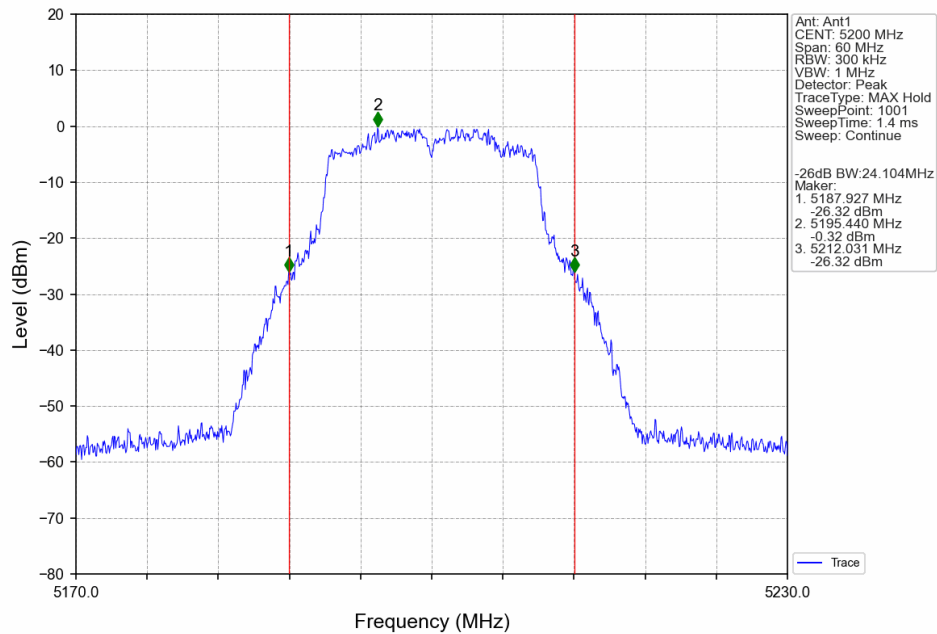
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



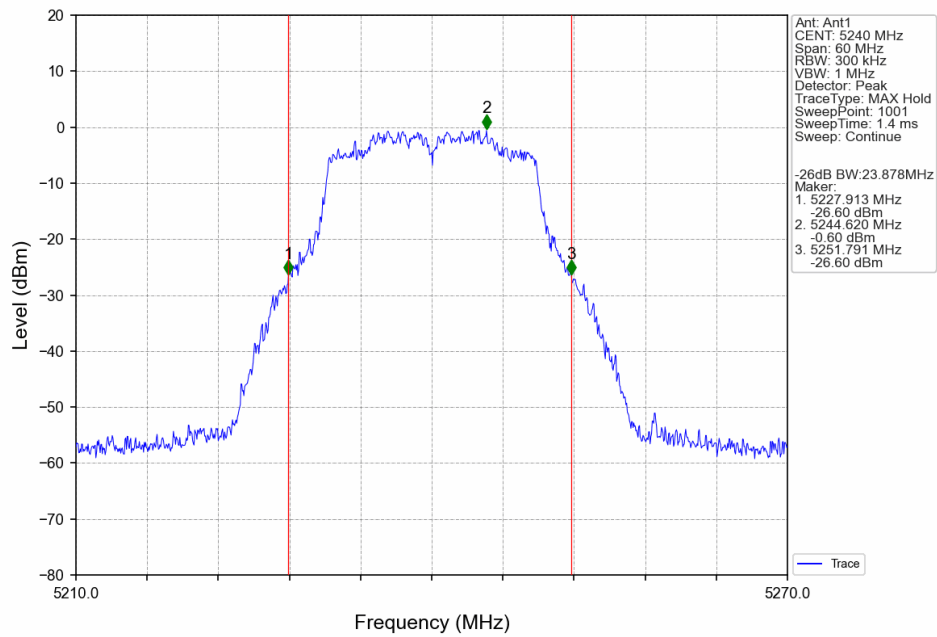
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



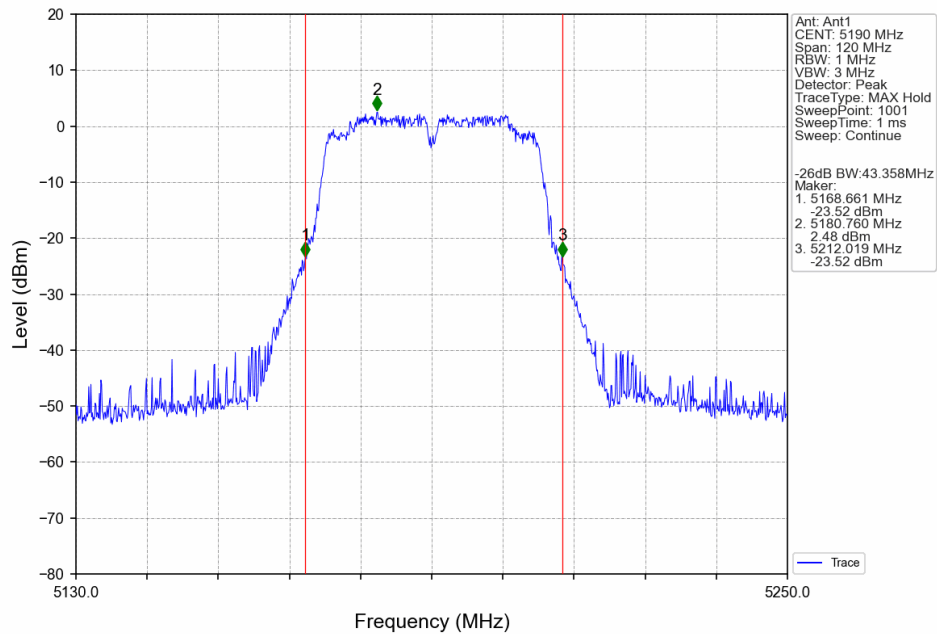
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



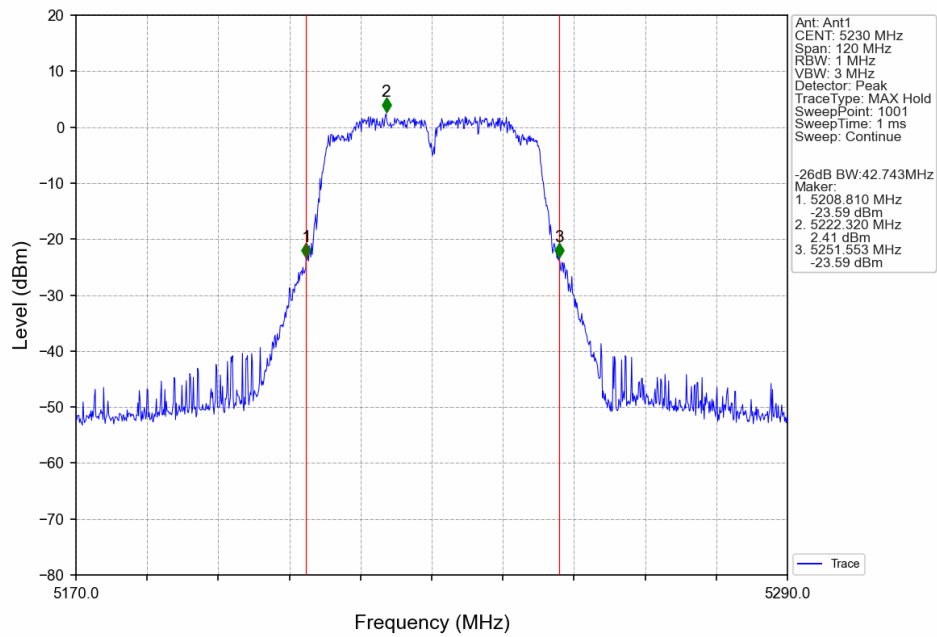
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



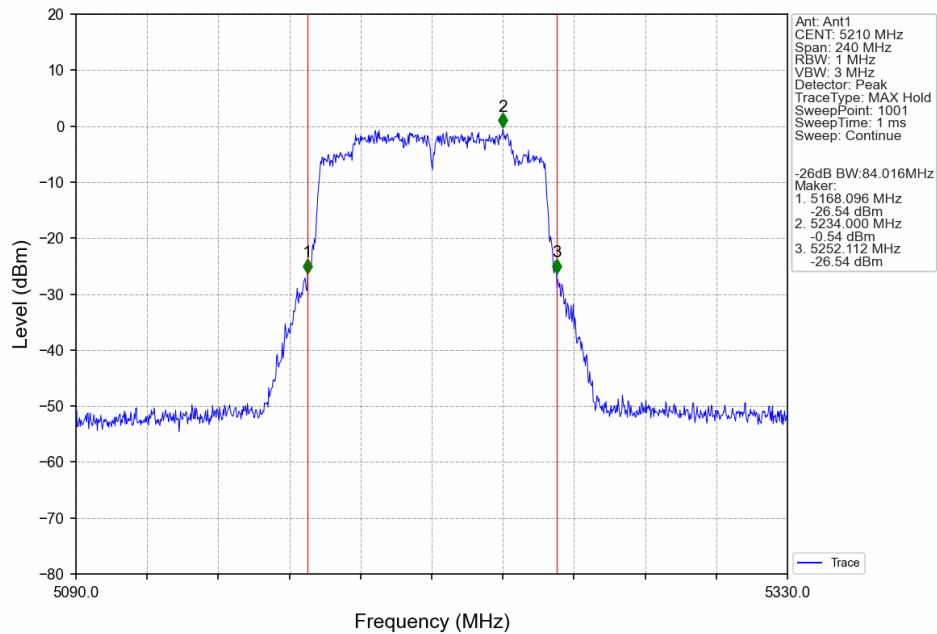
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



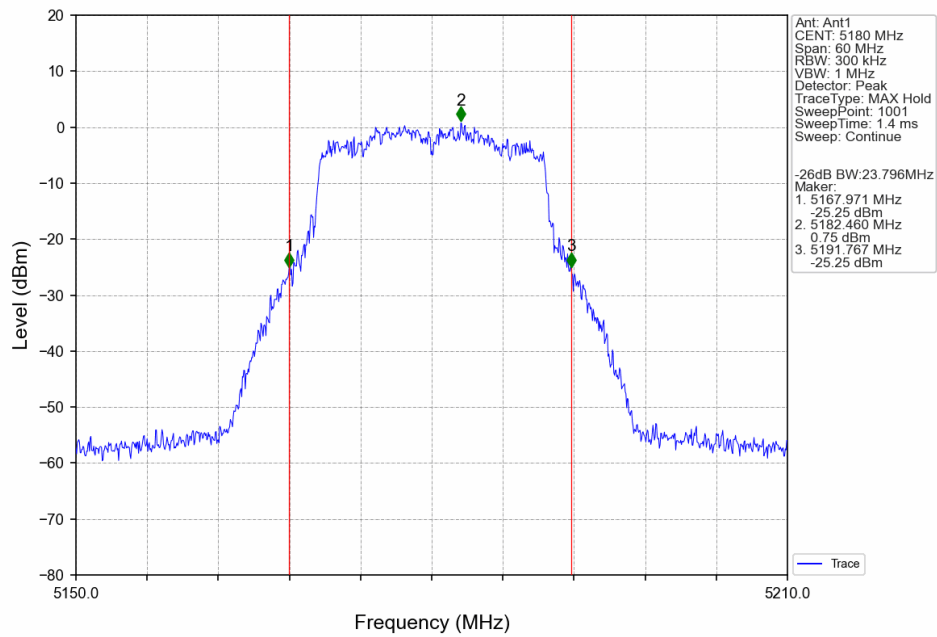
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



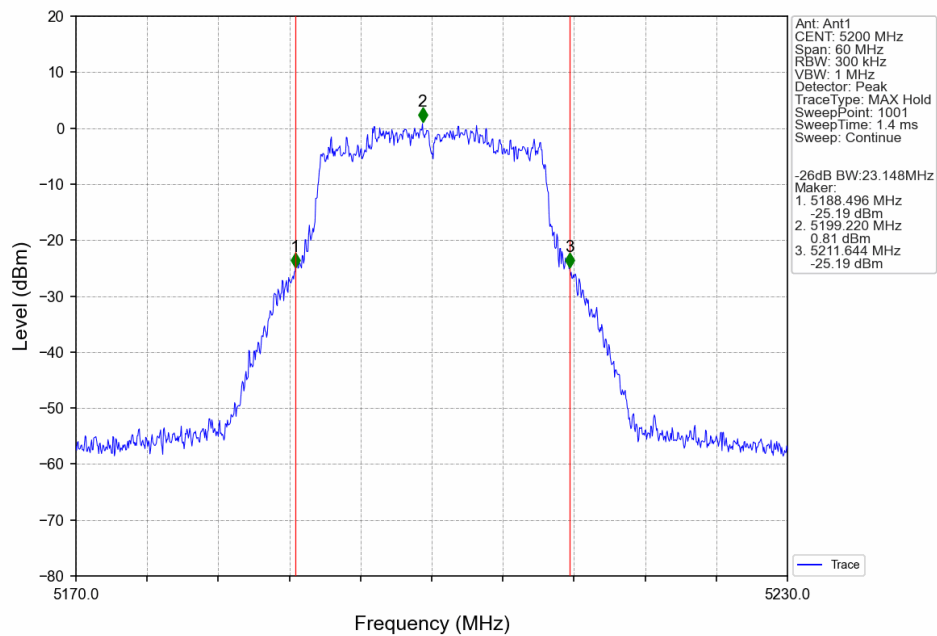
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



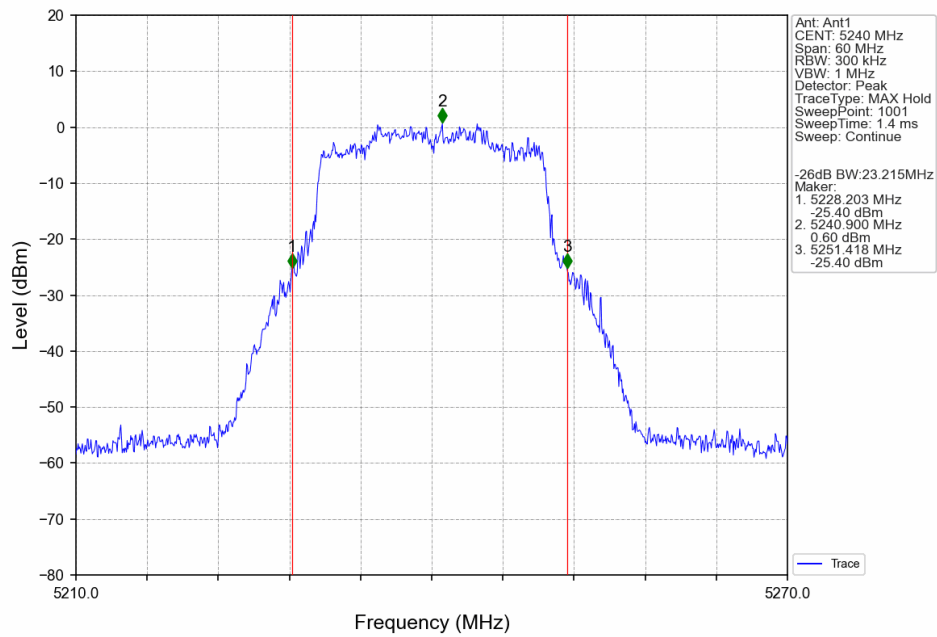
802.11ax(HEW20)_LCH_5180MHz_SU_ / _Ant1_NTNV



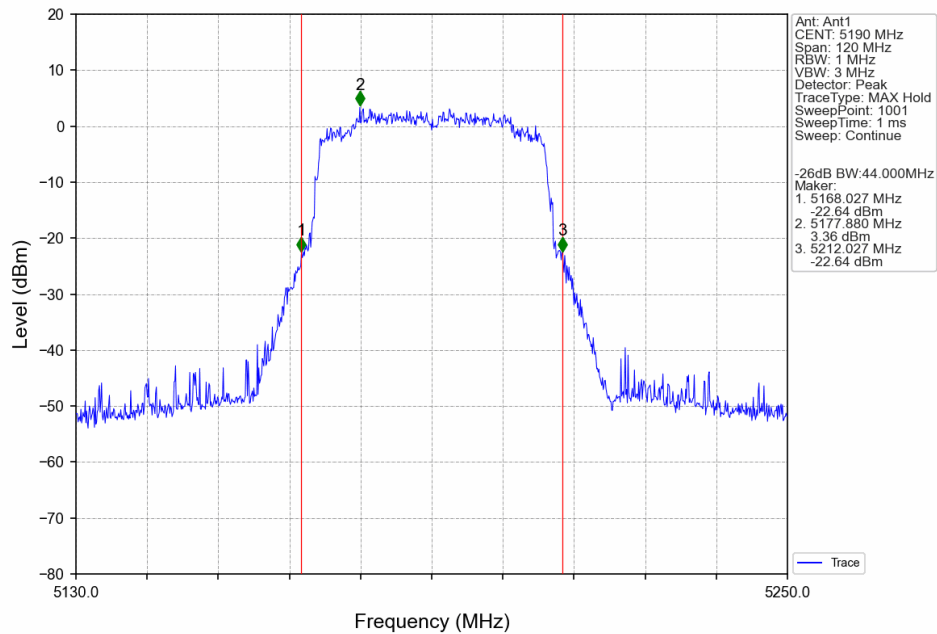
802.11ax(HEW20)_MCH_5200MHz_SU_ / _Ant1_NTNV



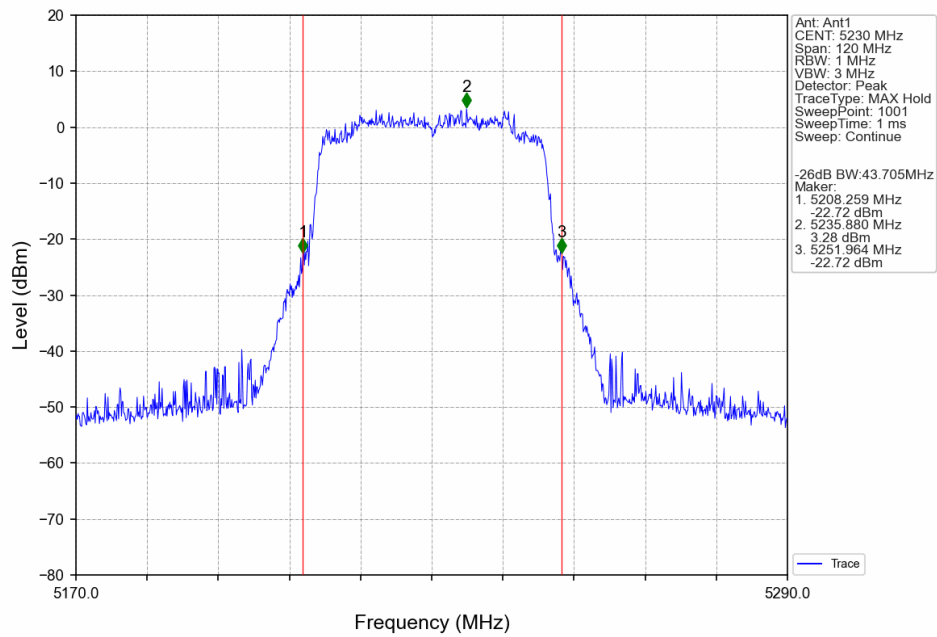
802.11ax(HEW20)_HCH_5240MHz_SU_/_Ant1_NTNV



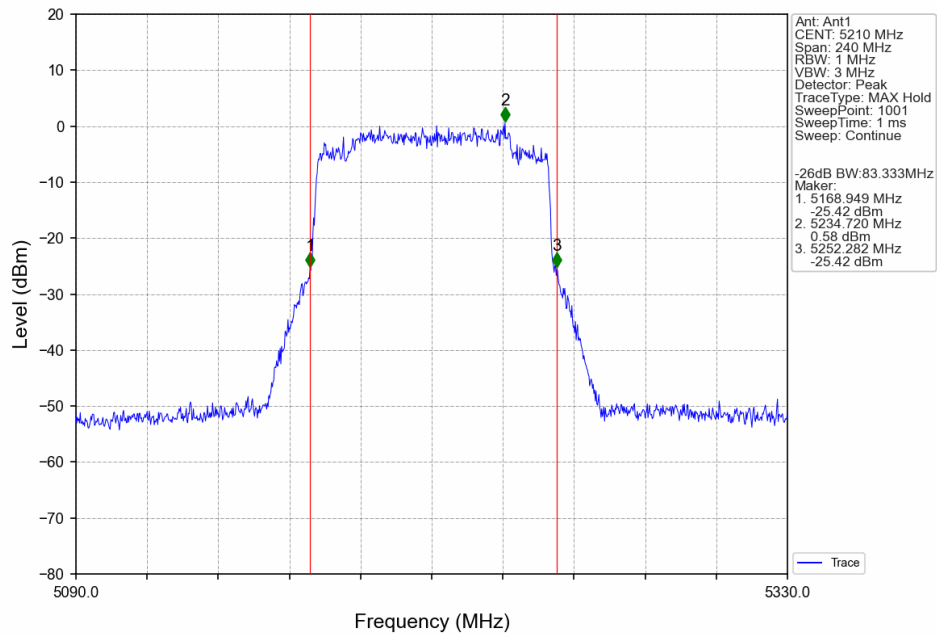
802.11ax(HEW40)_LCH_5190MHz_SU_/_Ant1_NTNV



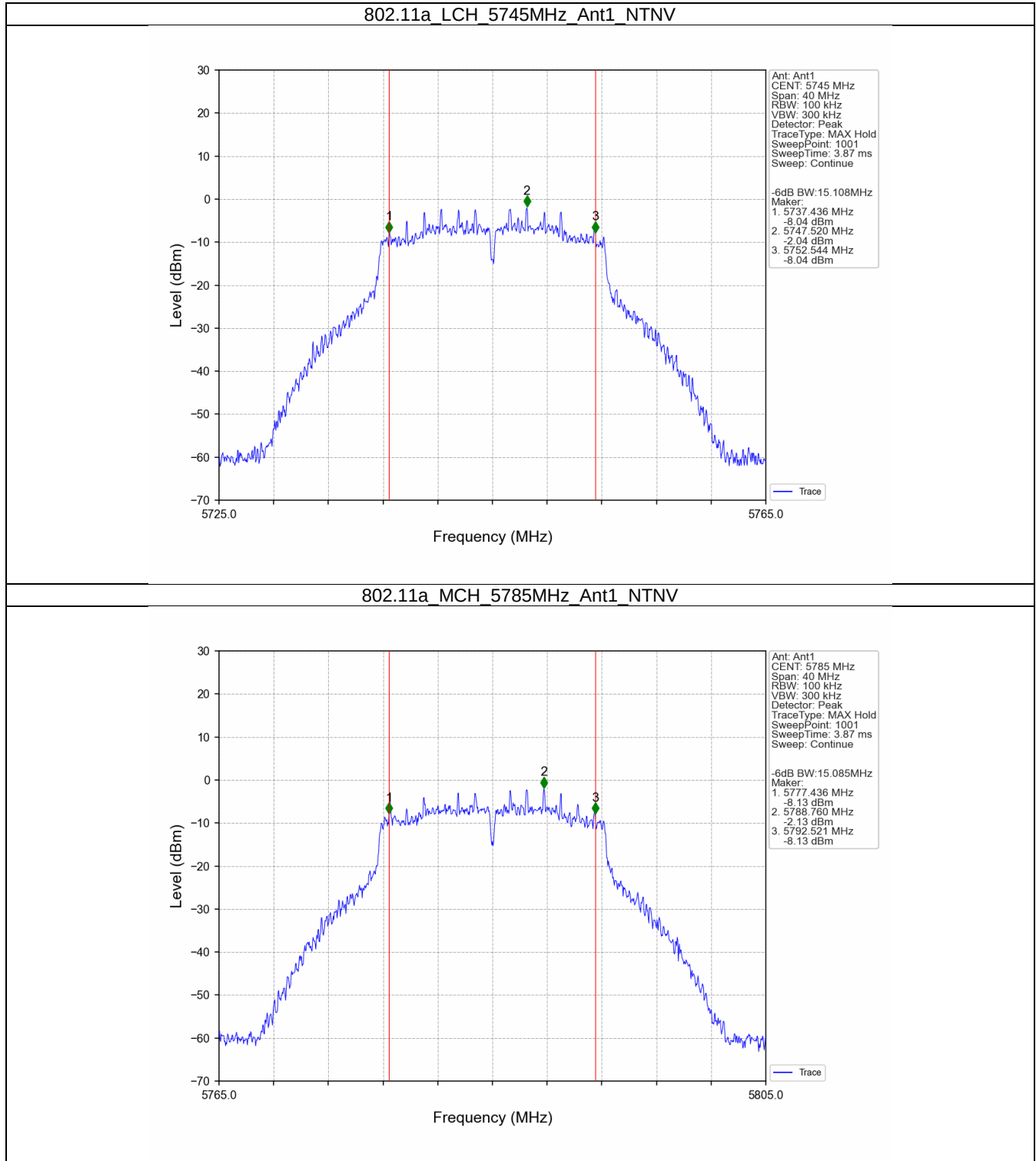
802.11ax(HEW40)_HCH_5230MHz_SU_ / Ant1_NTNV



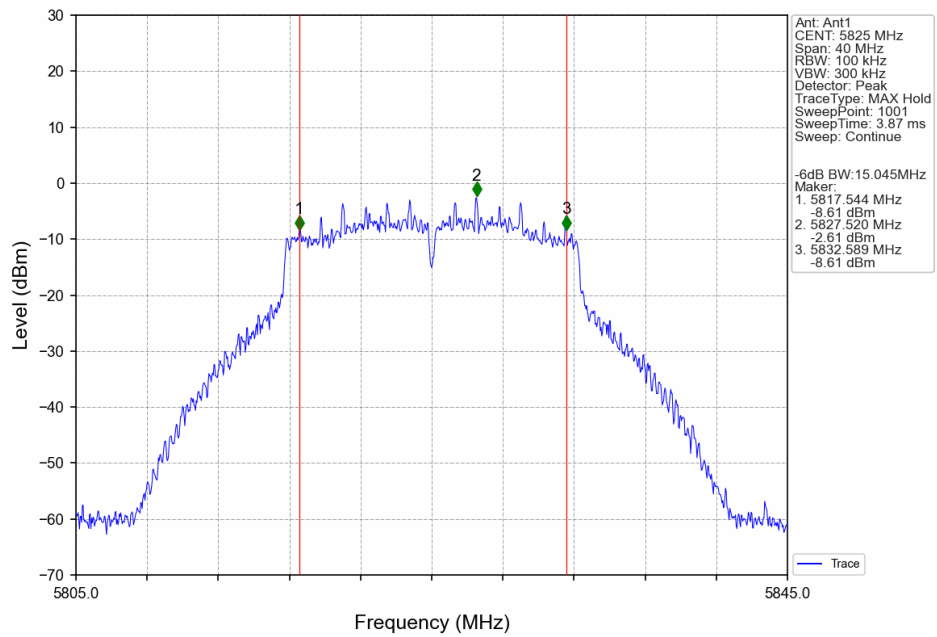
802.11ax(HEW80)_MCH_5210MHz_SU_ / Ant1_NTNV



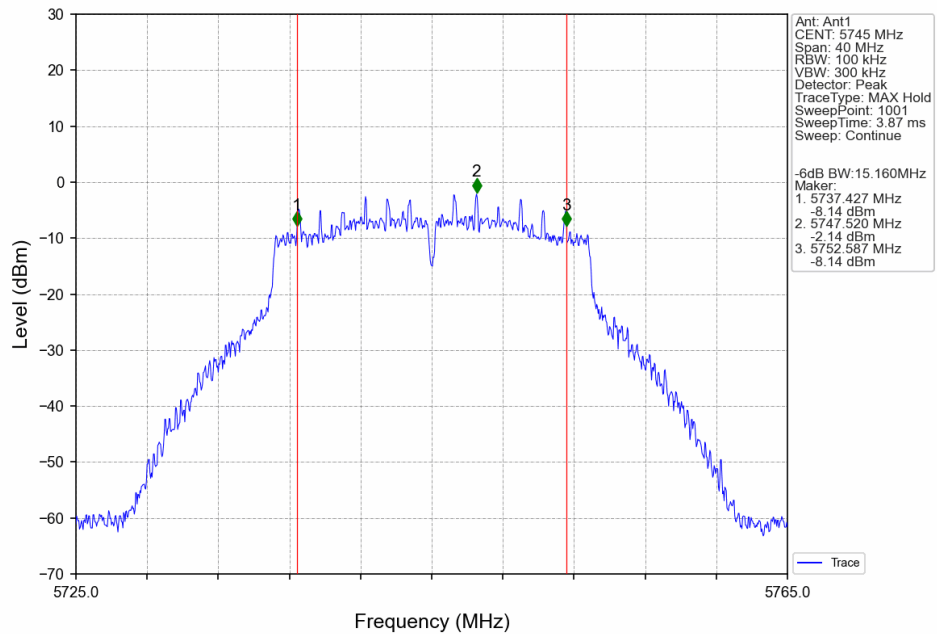
2.2.3 6dB BW



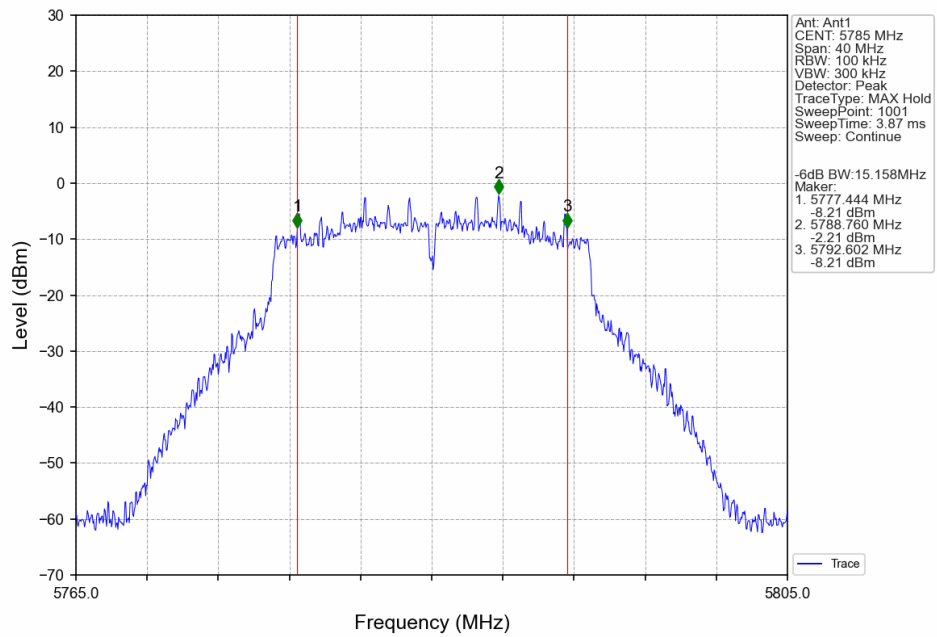
802.11a_HCH_5825MHz_Ant1_NTNV



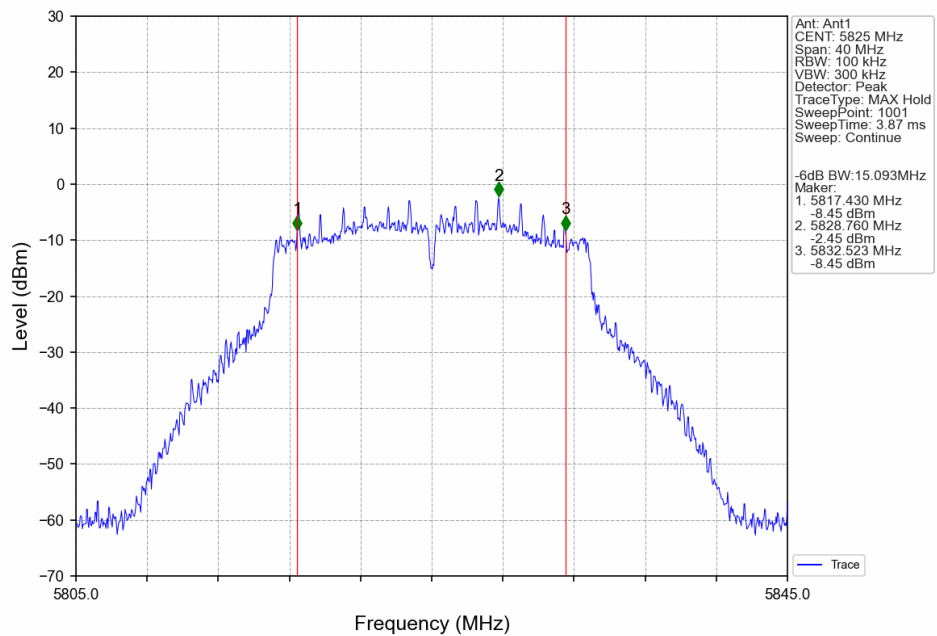
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



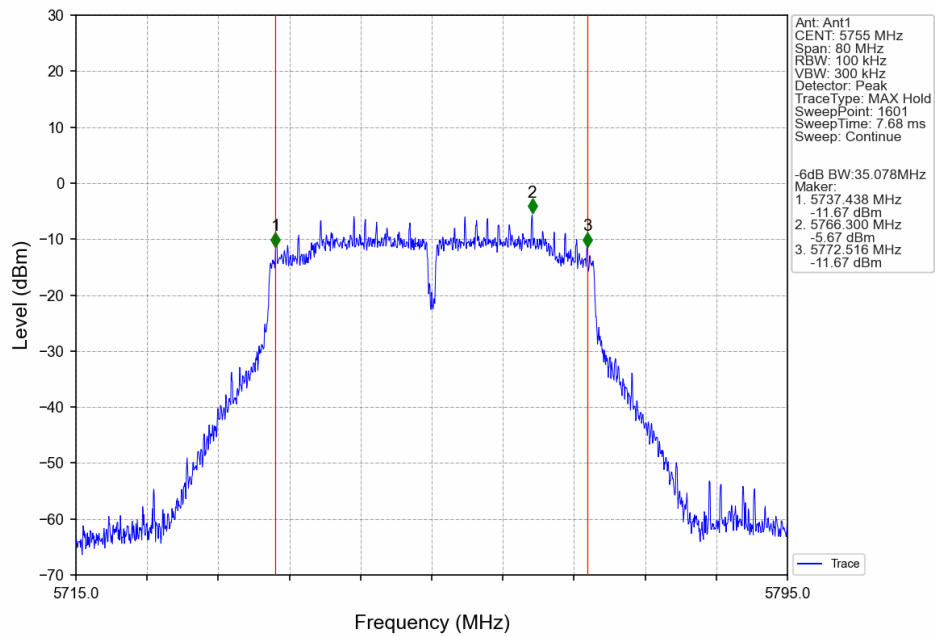
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



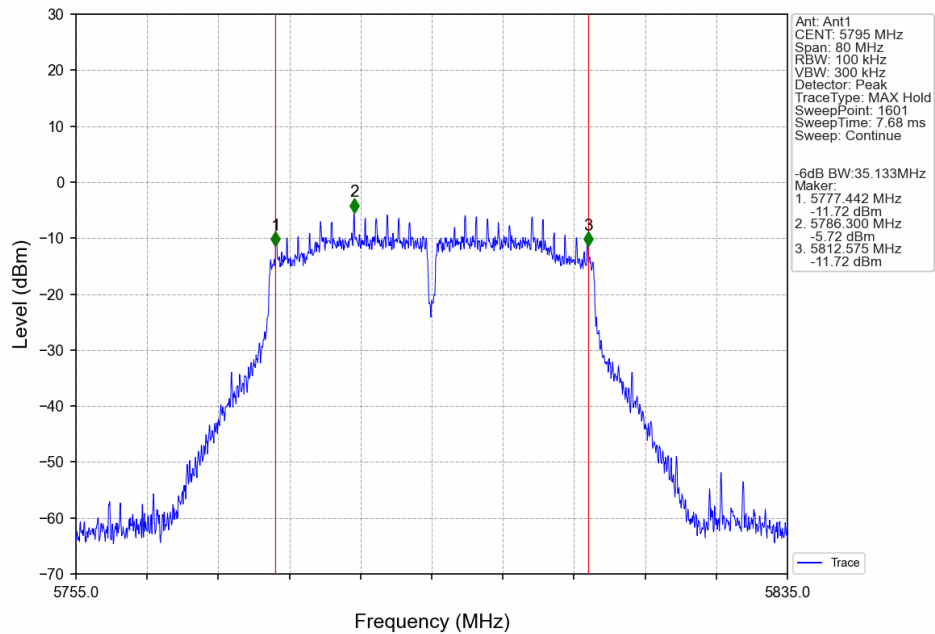
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



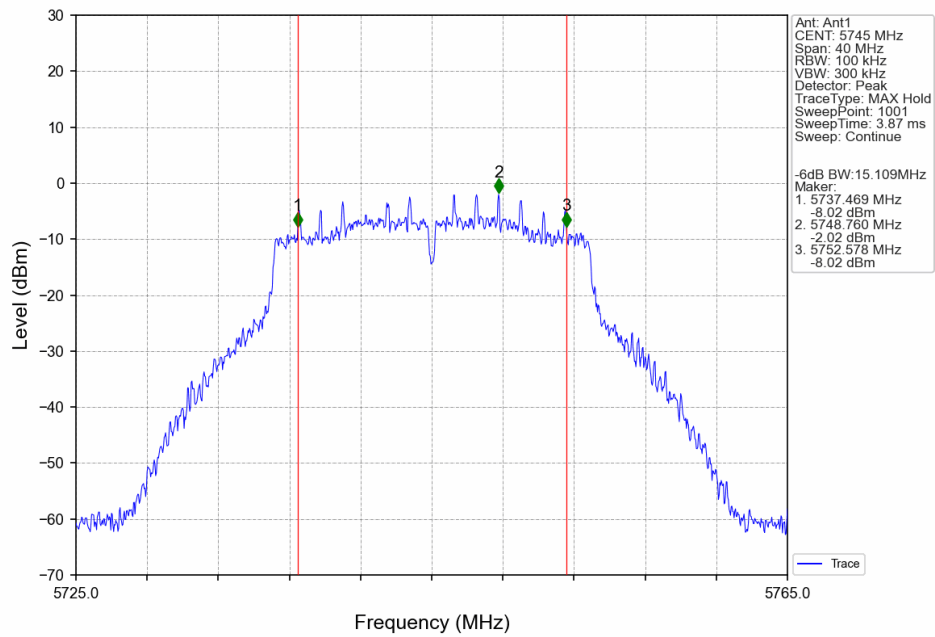
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



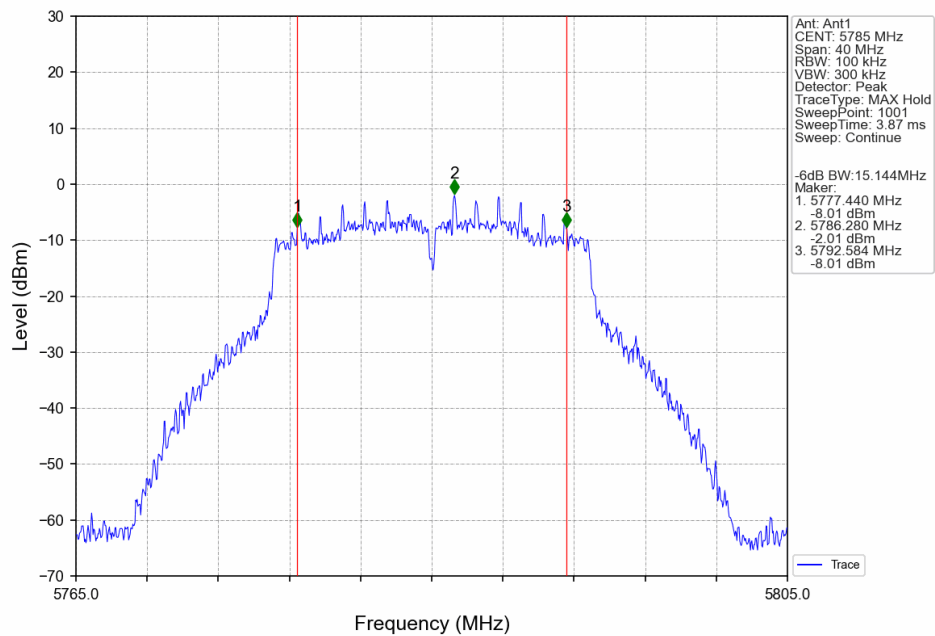
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



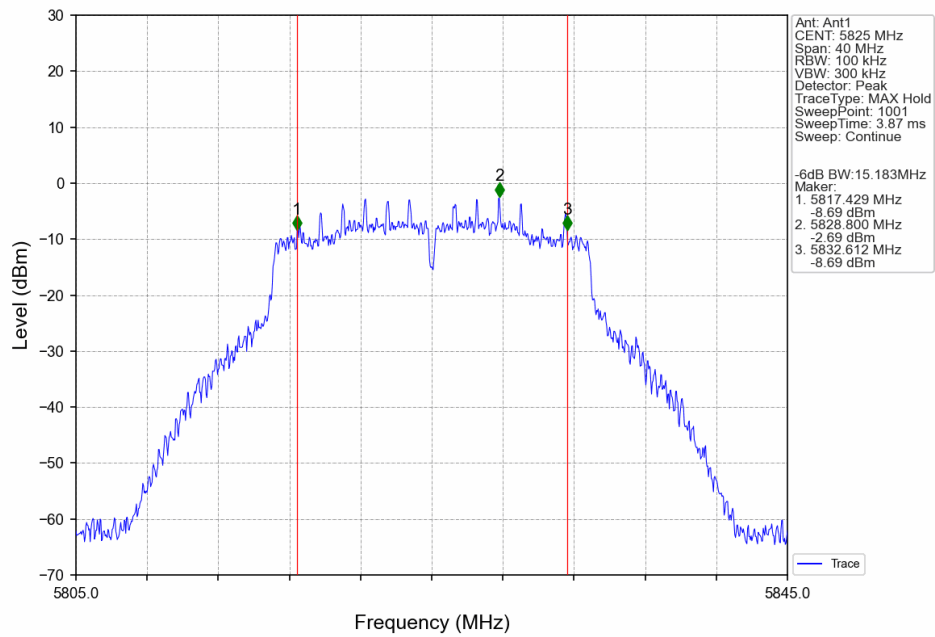
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



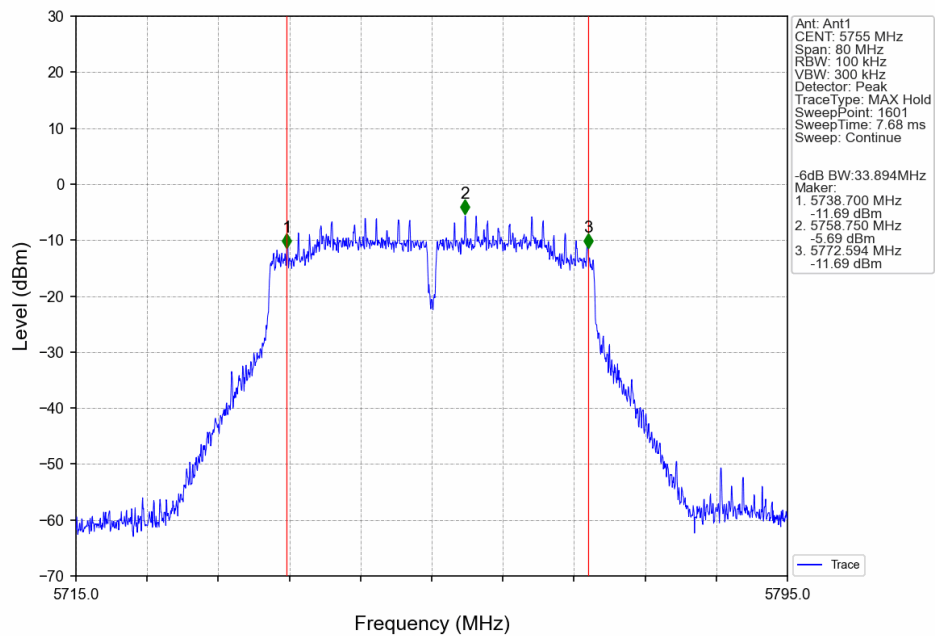
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



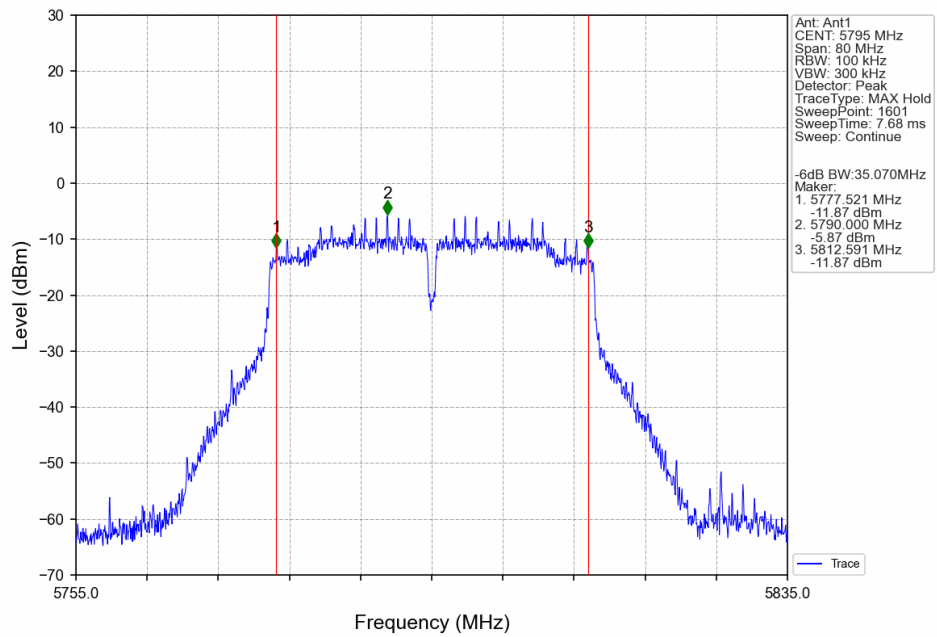
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



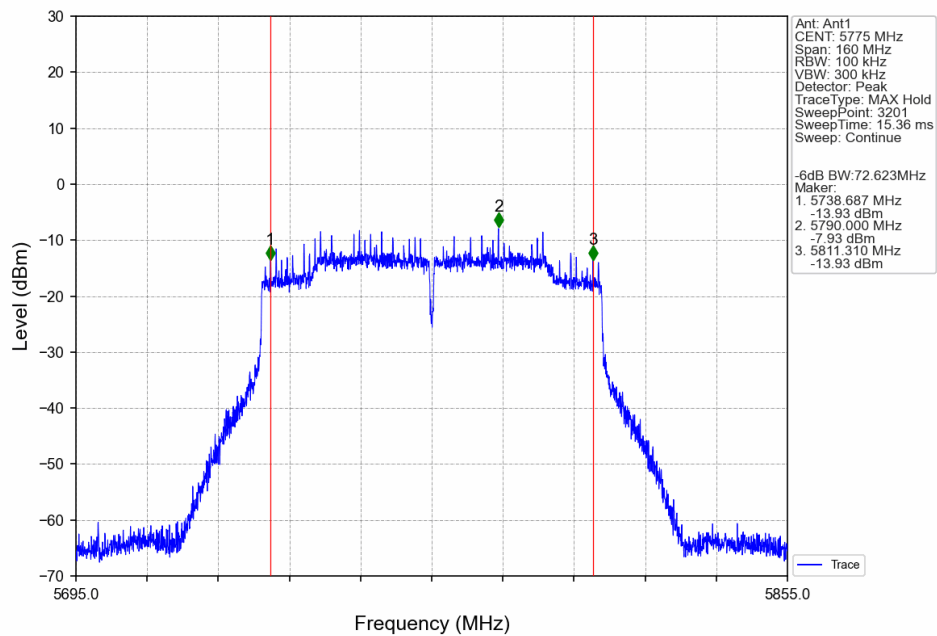
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



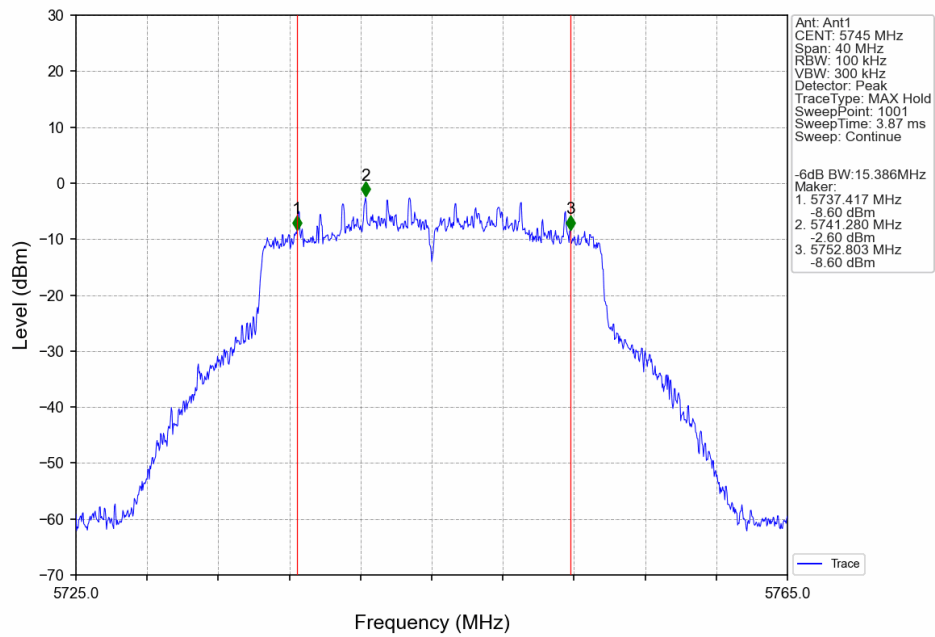
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



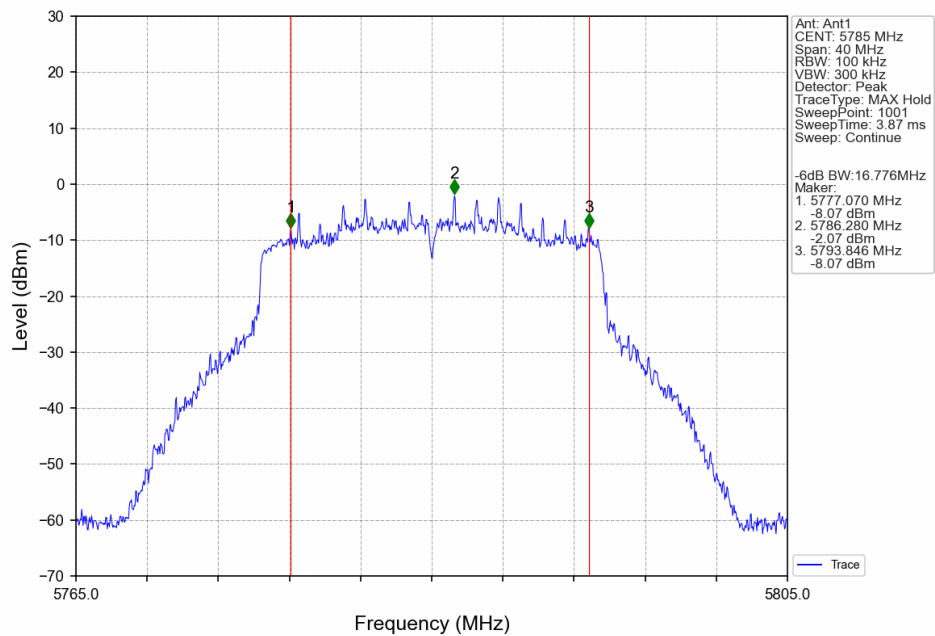
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



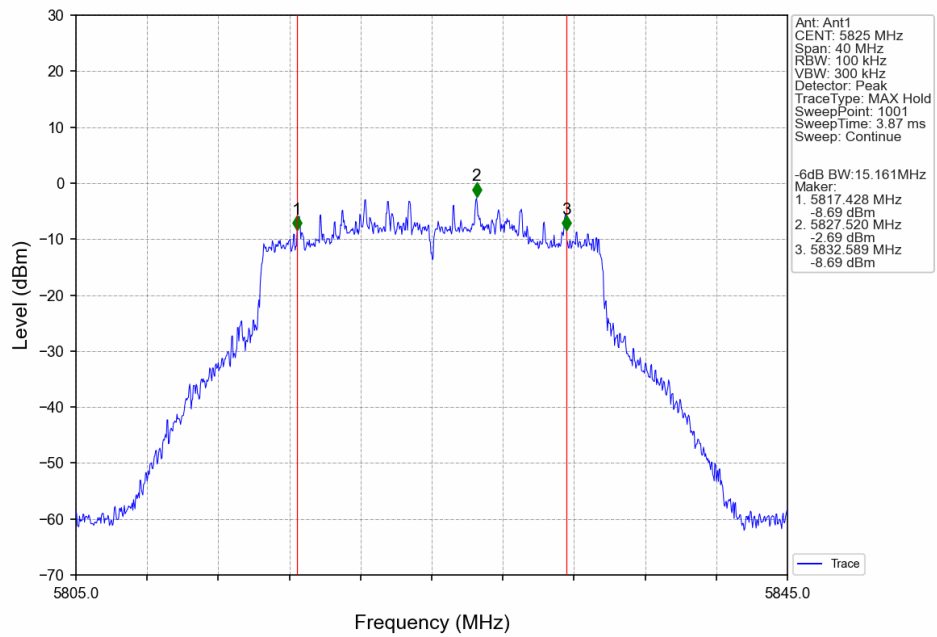
802.11ax(HEW20)_LCH_5745MHz_SU_ / Ant1_NTNV



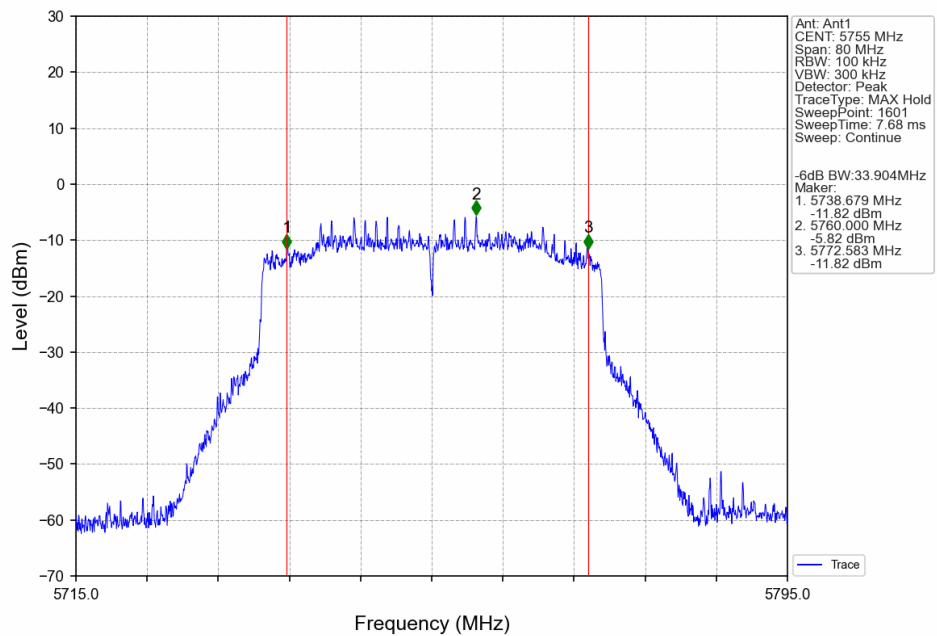
802.11ax(HEW20)_MCH_5785MHz_SU_ / Ant1_NTNV



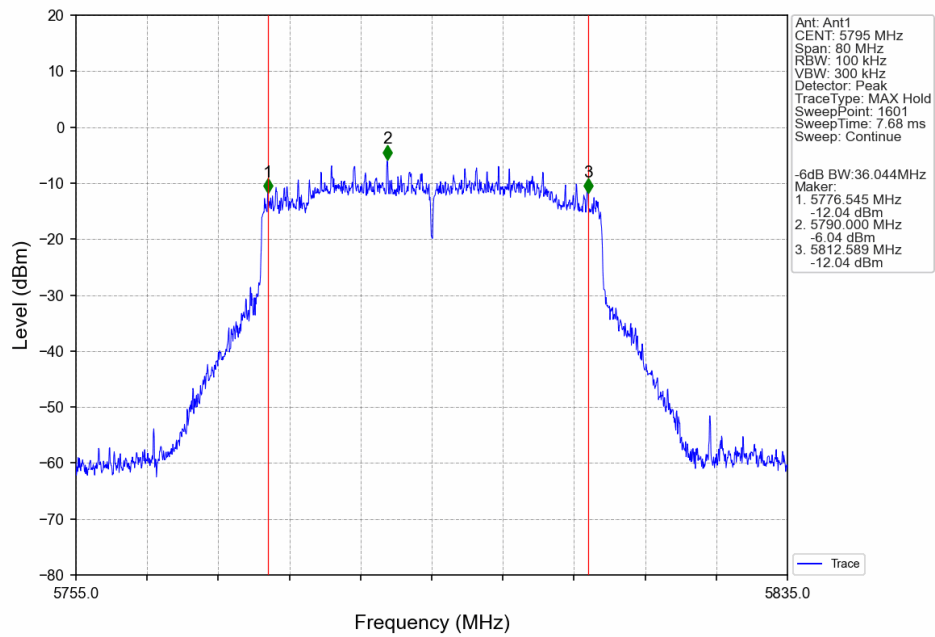
802.11ax(HEW20)_HCH_5825MHz_SU_/_Ant1_NTNV



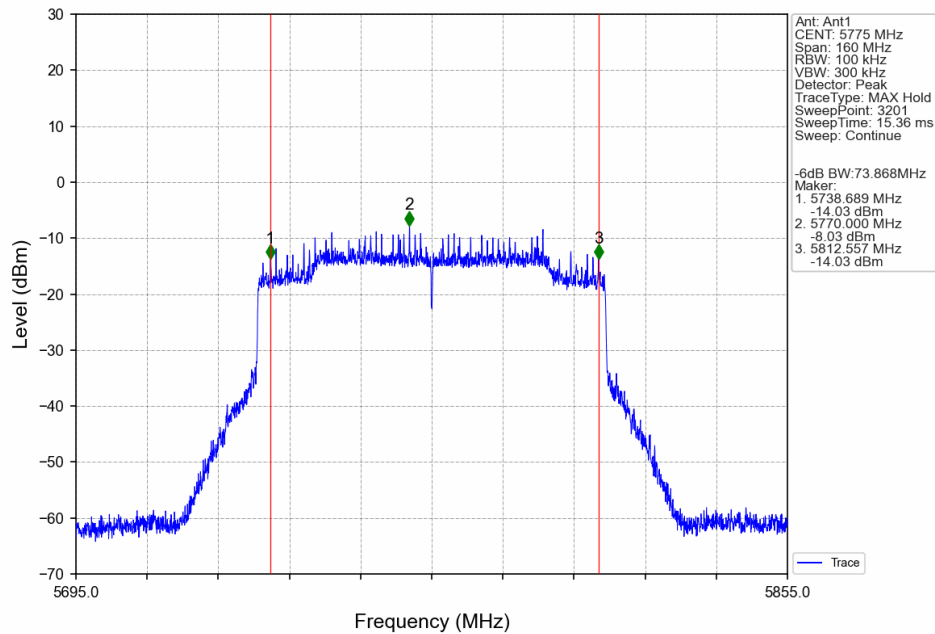
802.11ax(HEW40)_LCH_5755MHz_SU_/_Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_ / Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_SU_ / Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

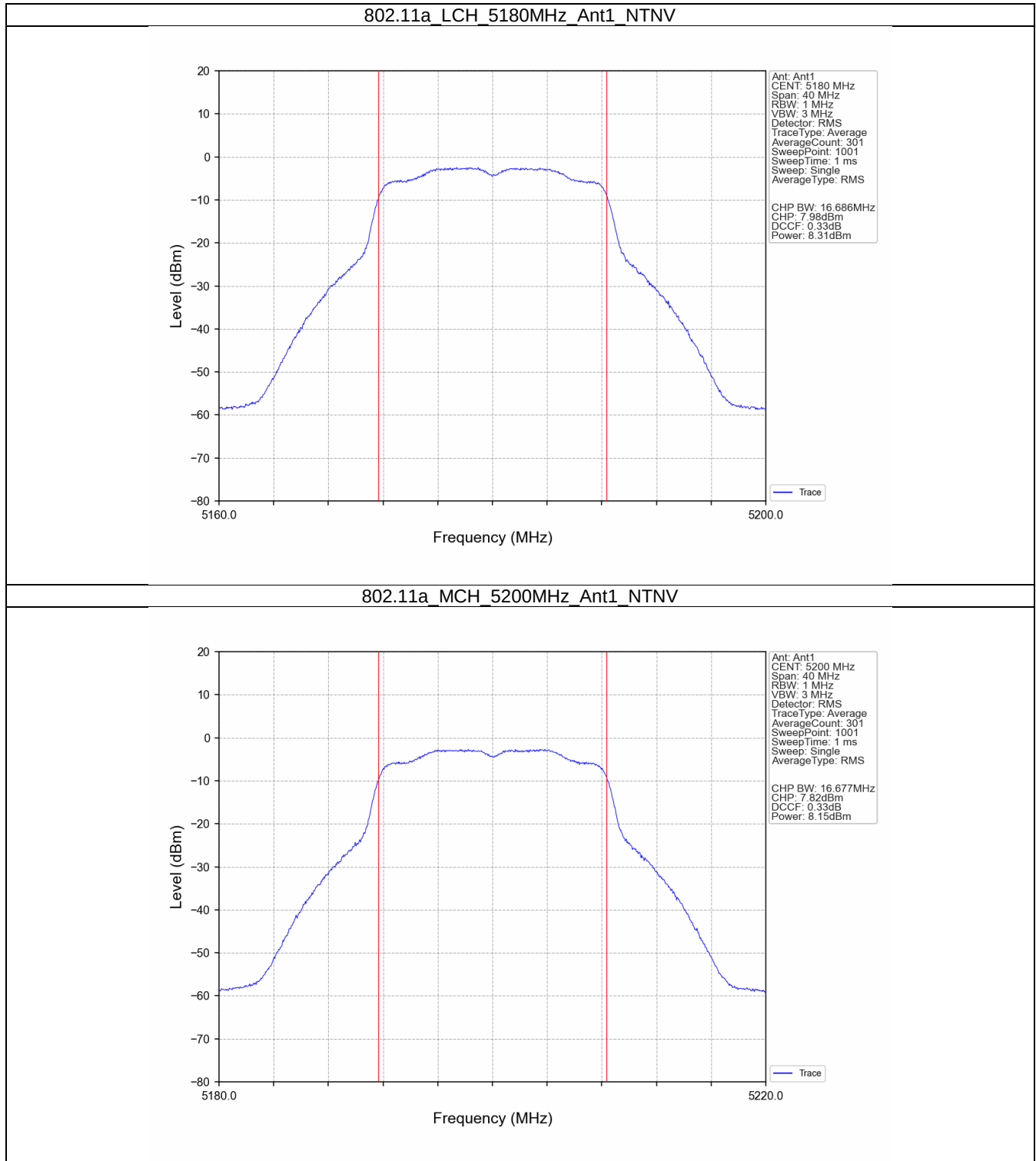
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11a	SISO	5180	/	/	8.31	<=23.98	Pass
		5200	/	/	8.15	<=23.98	Pass
		5240	/	/	7.93	<=23.98	Pass
		5745	/	/	7.81	<=30	Pass
		5785	/	/	7.62	<=30	Pass
		5825	/	/	7.33	<=30	Pass
802.11n (HT20)	SISO	5180	/	/	8.13	<=23.98	Pass
		5200	/	/	8.09	<=23.98	Pass
		5240	/	/	7.89	<=23.98	Pass
		5745	/	/	7.69	<=30	Pass
		5785	/	/	7.51	<=30	Pass
		5825	/	/	7.26	<=30	Pass
802.11n (HT40)	SISO	5190	/	/	8.10	<=23.98	Pass
		5230	/	/	7.87	<=23.98	Pass
		5755	/	/	7.69	<=30	Pass
		5795	/	/	7.49	<=30	Pass
802.11ac (VHT20)	SISO	5180	/	/	8.15	<=23.98	Pass
		5200	/	/	8.09	<=23.98	Pass
		5240	/	/	7.88	<=23.98	Pass
		5745	/	/	7.71	<=30	Pass
		5785	/	/	7.47	<=30	Pass
		5825	/	/	7.21	<=30	Pass
802.11ac (VHT40)	SISO	5190	/	/	8.16	<=23.98	Pass
		5230	/	/	7.91	<=23.98	Pass
		5755	/	/	7.78	<=30	Pass
		5795	/	/	7.50	<=30	Pass
802.11ac (VHT80)	SISO	5210	/	/	7.97	<=23.98	Pass
		5775	/	/	7.63	<=30	Pass
802.11ax (HEW20)	SISO	5180	SU	/	8.05	<=23.98	Pass
		5200	SU	/	7.98	<=23.98	Pass
		5240	SU	/	7.75	<=23.98	Pass
		5745	SU	/	7.63	<=30	Pass
		5785	SU	/	7.45	<=30	Pass
		5825	SU	/	7.17	<=30	Pass
802.11ax (HEW40)	SISO	5190	SU	/	8.06	<=23.98	Pass
		5230	SU	/	7.84	<=23.98	Pass
		5755	SU	/	7.70	<=30	Pass
		5795	SU	/	7.44	<=30	Pass
802.11ax (HEW80)	SISO	5210	SU	/	7.92	<=23.98	Pass
		5775	SU	/	7.64	<=30	Pass

Note1: Antenna Gain:
- Band: 1 Ant1: -0.07dBi;
- Band: 3 Ant1: -0.40dBi;

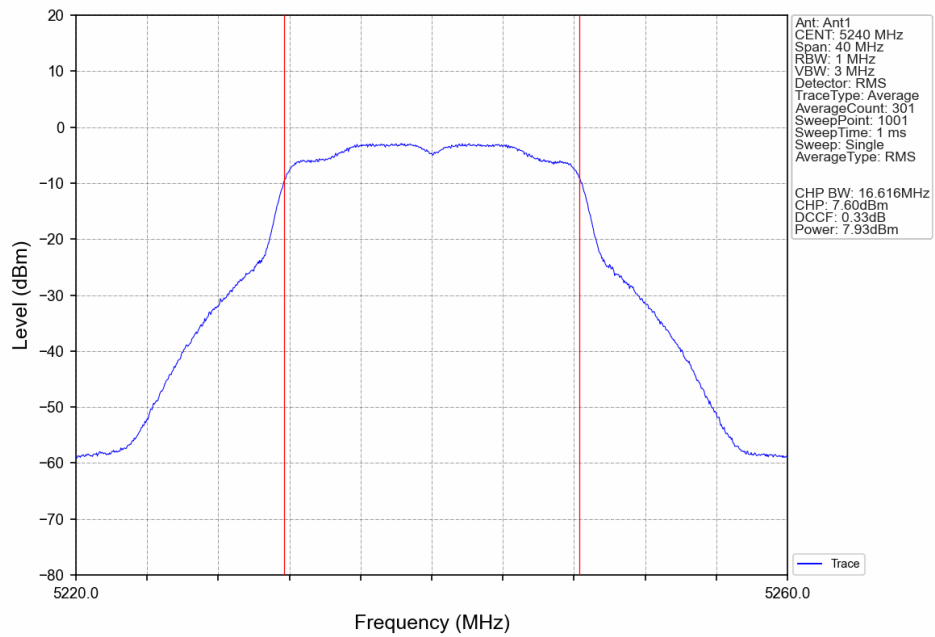


3.2 Test Graph

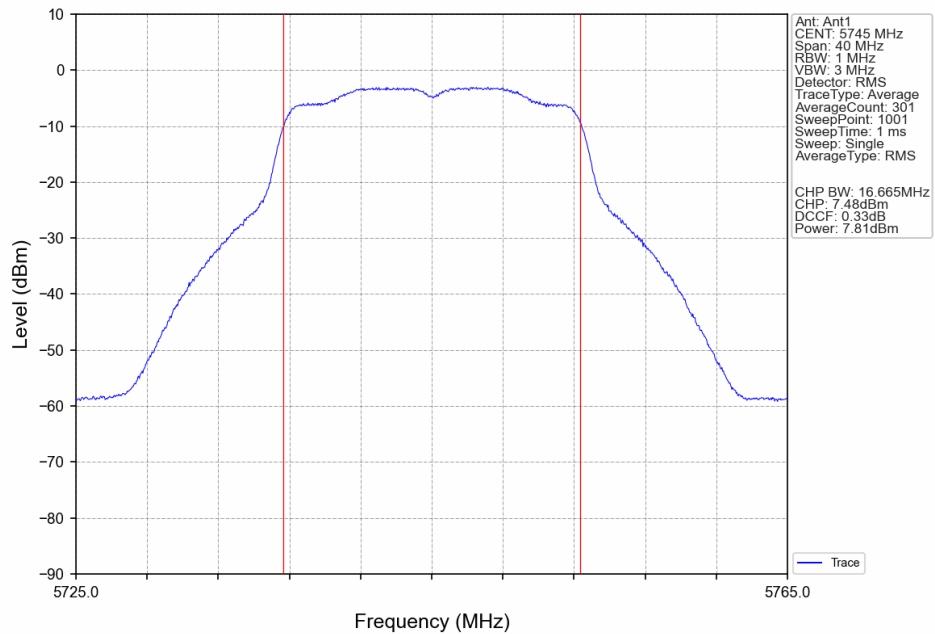
3.2.1 Power



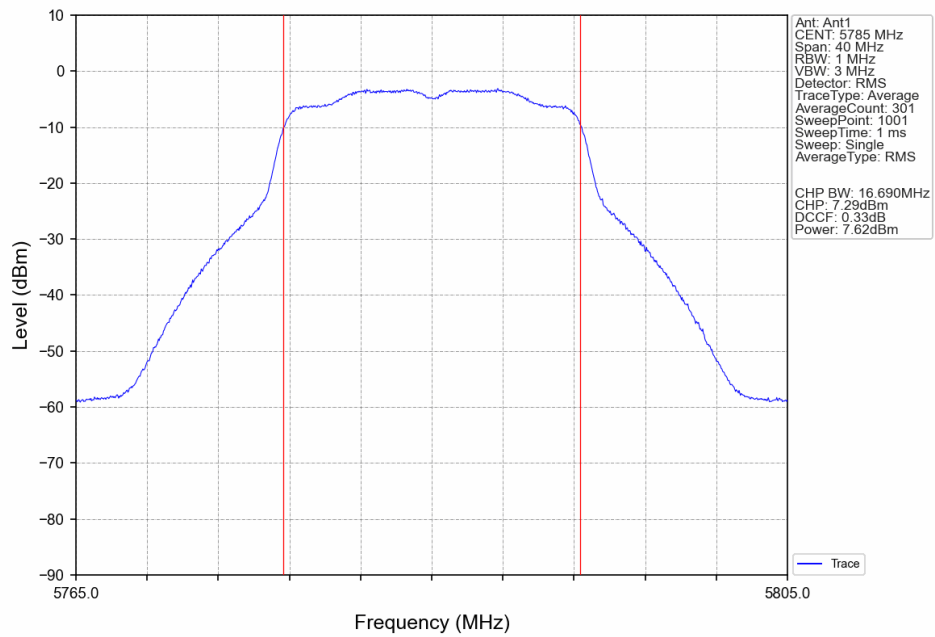
802.11a_HCH_5240MHz_Ant1_NTNV



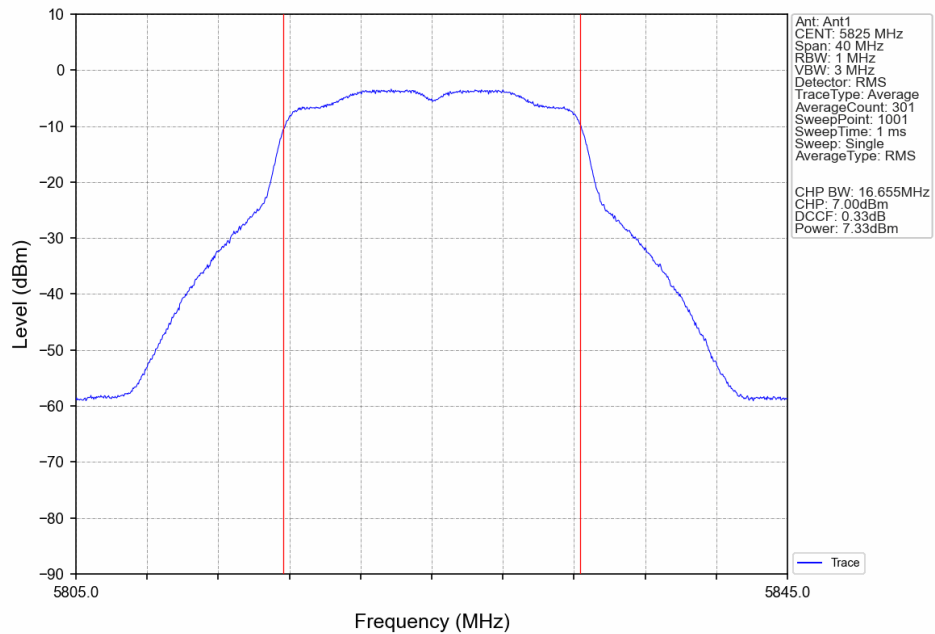
802.11a_LCH_5745MHz_Ant1_NTNV



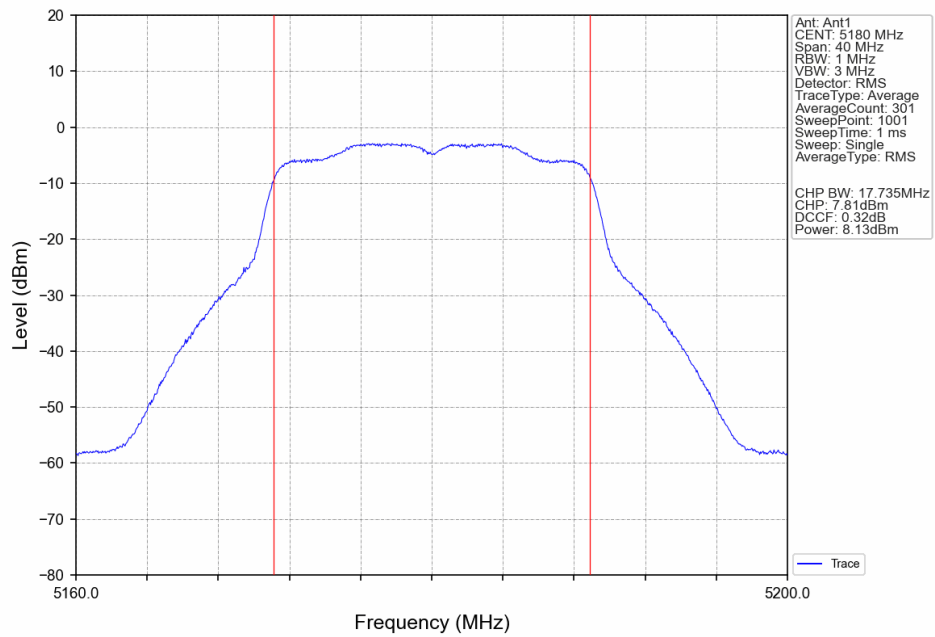
802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

