

1. Duty Cycle

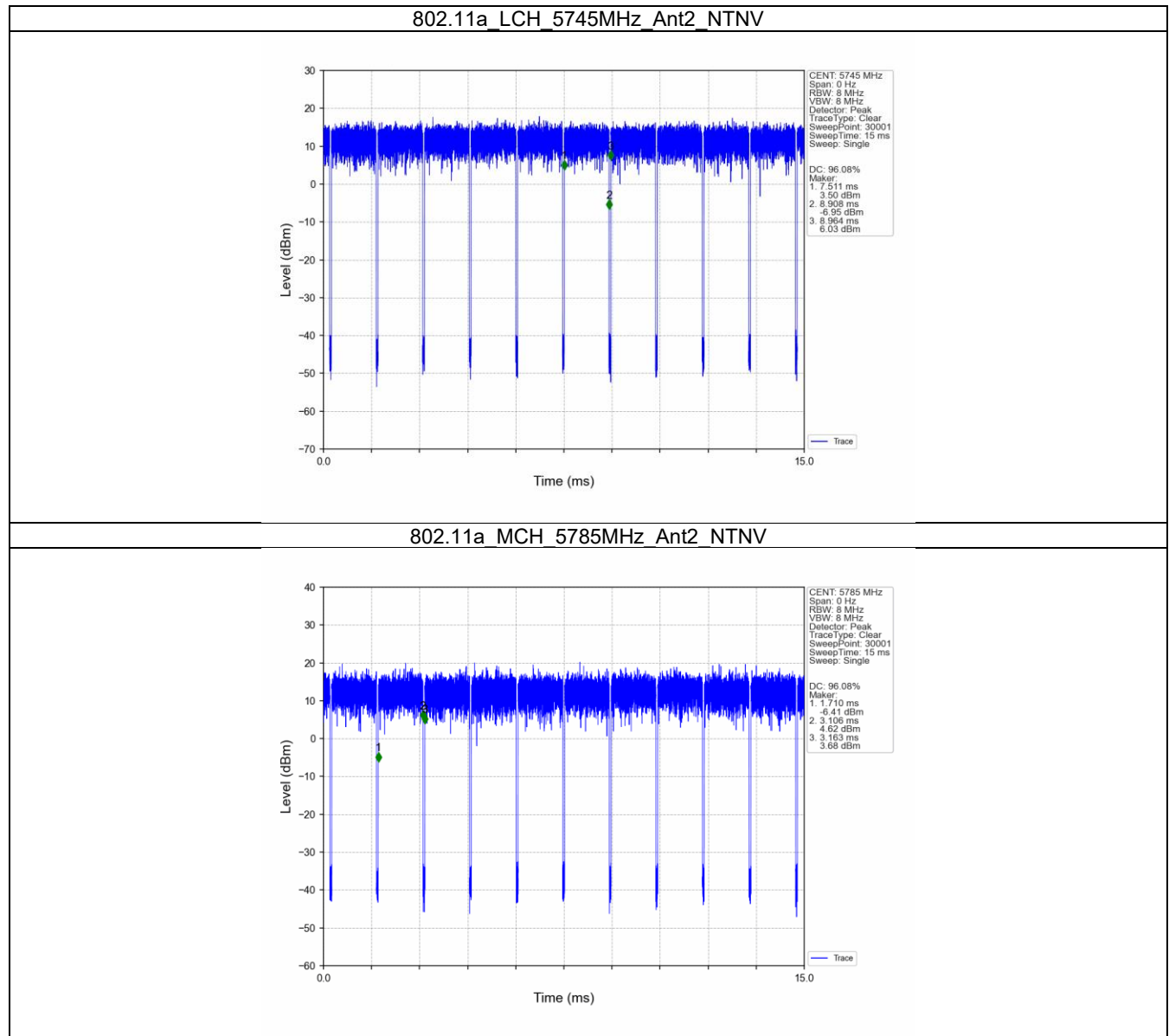
1.1 Test Result

1.1.1 Ant2

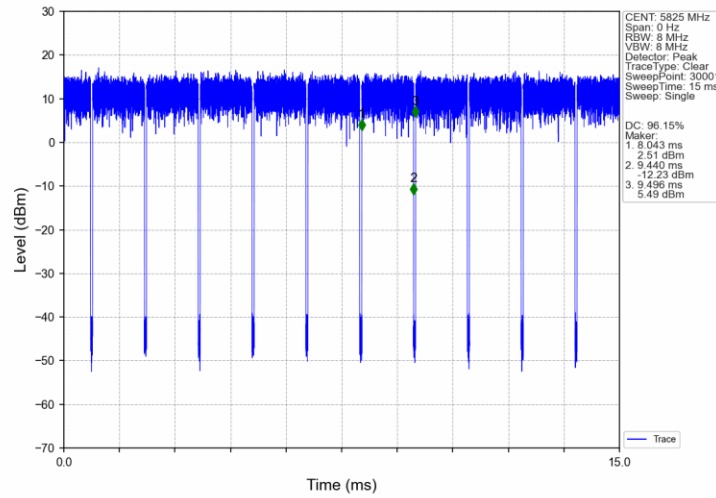
Ant2									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	MIMO	5745	/	/	1.396	1.453	96.08	0.17	0.07
		5785	/	/	1.397	1.454	96.08	0.17	0.03
		5825	/	/	1.397	1.453	96.15	0.17	0.03
802.11n (HT20)	MIMO	5745	/	/	1.304	1.360	95.88	0.18	0.03
		5785	/	/	1.304	1.361	95.81	0.19	0.04
		5825	/	/	1.304	1.361	95.81	0.19	0.03
802.11n (HT40)	MIMO	5755	/	/	0.649	0.705	92.06	0.36	0.04
		5795	/	/	0.649	0.705	92.06	0.36	0.03
802.11ac (VHT20)	MIMO	5745	/	/	0.481	0.537	89.57	0.48	0.06
		5785	/	/	0.480	0.537	89.39	0.49	0.12
		5825	/	/	0.481	0.537	89.57	0.48	0.12
802.11ac (VHT40)	MIMO	5755	/	/	0.260	0.317	82.02	0.86	0.06
		5795	/	/	0.264	0.318	83.02	0.81	0.06
802.11ac (VHT80)	MIMO	5775	/	/	0.149	0.205	72.68	1.39	0.09
802.11ax (HEW20)	MIMO	5745	SU	/	0.480	0.537	89.39	0.49	0.09
		5785	SU	/	0.480	0.537	89.39	0.49	0.03
		5825	SU	/	0.480	0.537	89.39	0.49	0.06
802.11ax (HEW40)	MIMO	5755	SU	/	0.261	0.317	82.33	0.84	0.09
		5795	SU	/	0.428	0.482	88.80	0.52	0.04
802.11ax (HEW80)	MIMO	5775	SU	/	0.413	0.468	88.25	0.54	0.11

1.2 Test Graph

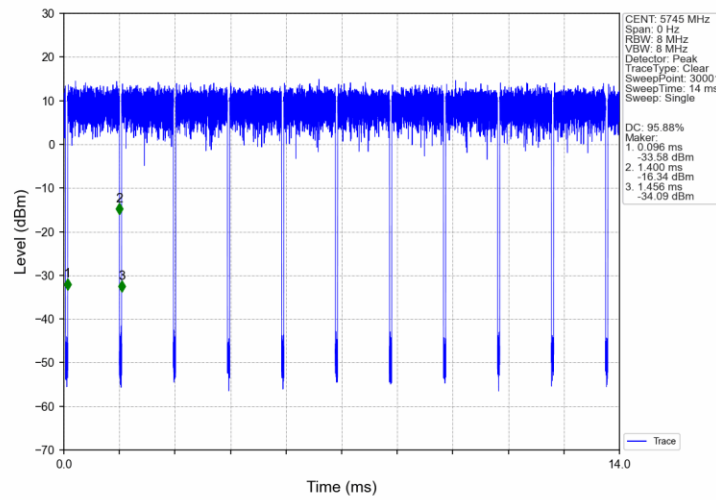
1.2.1 Ant1



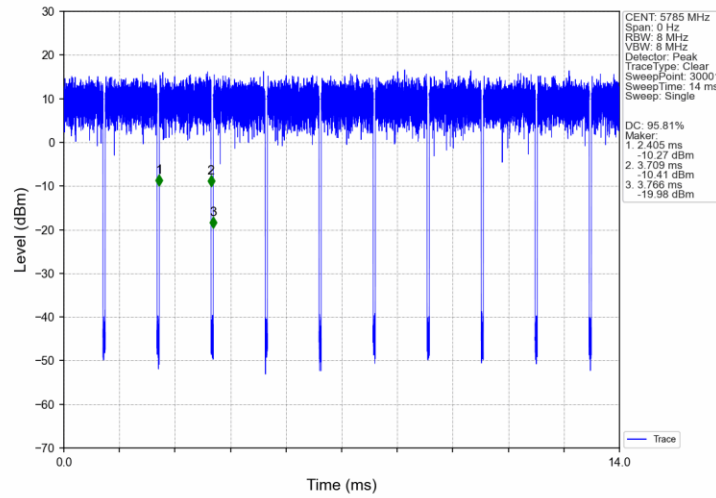
802.11a_HCH_5825MHz_Ant2_NTNV



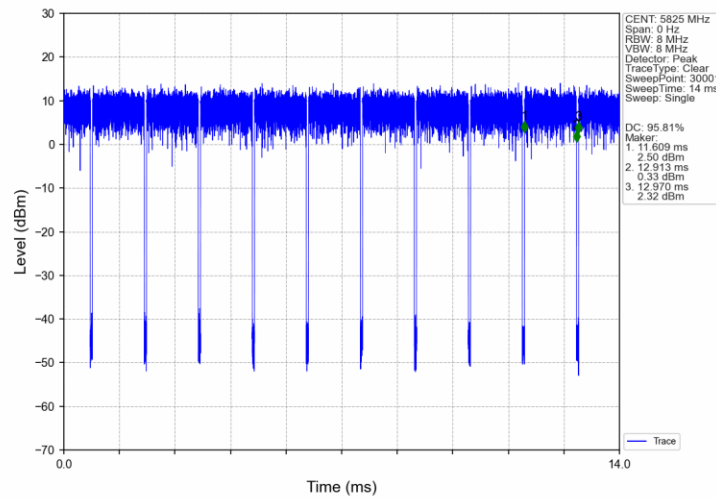
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



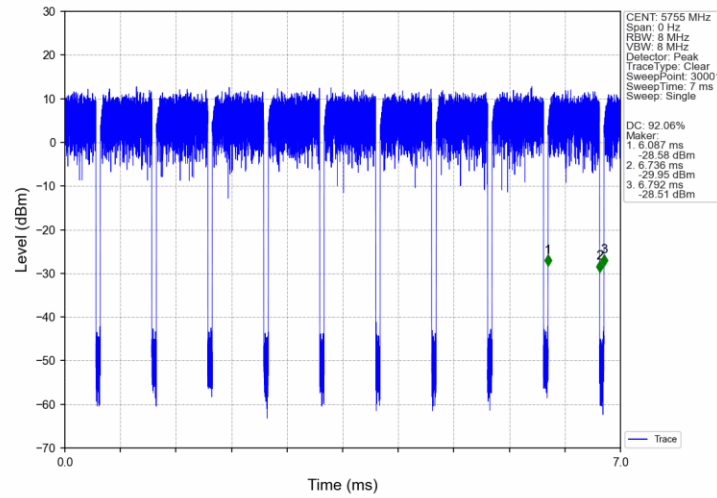
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



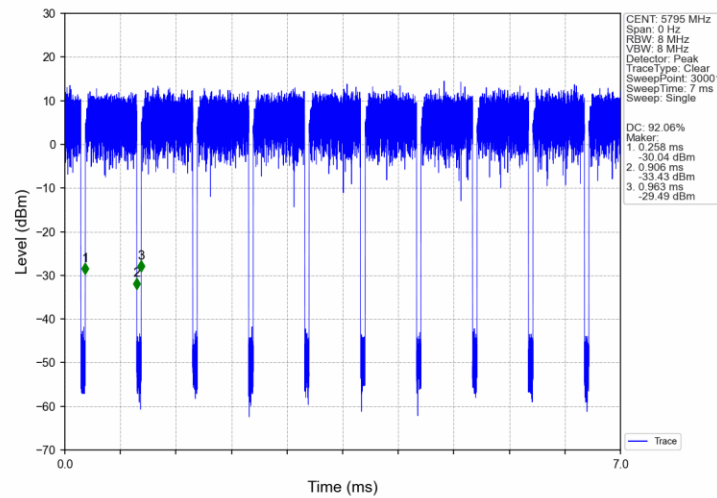
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



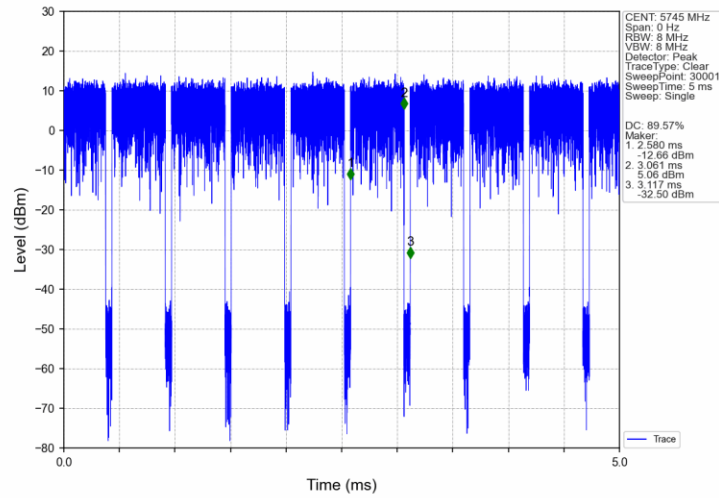
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



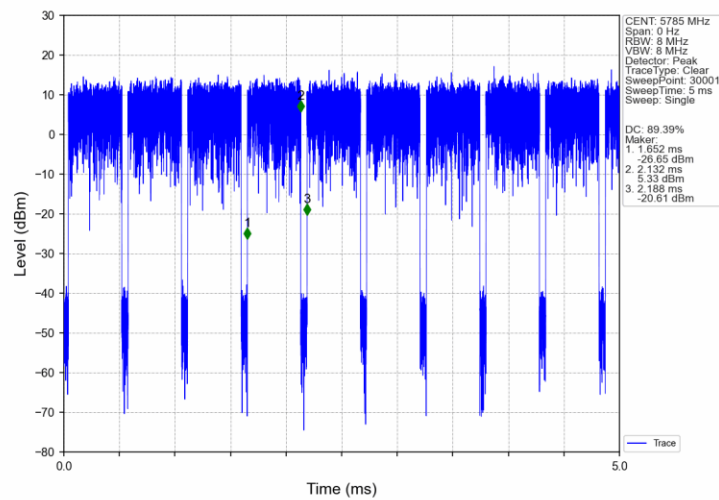
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



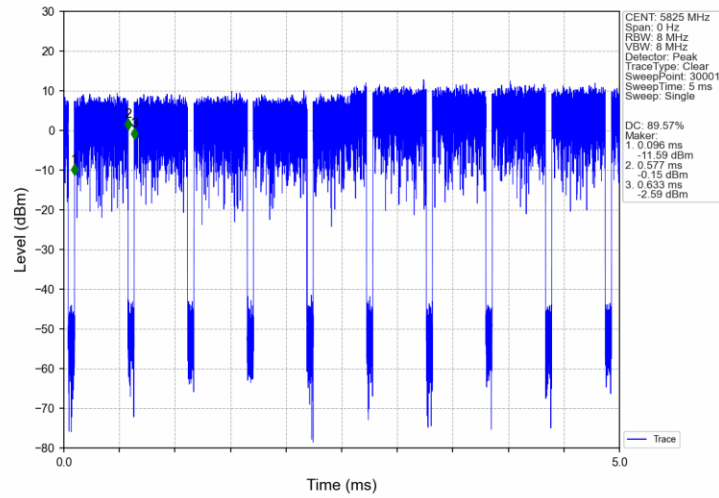
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



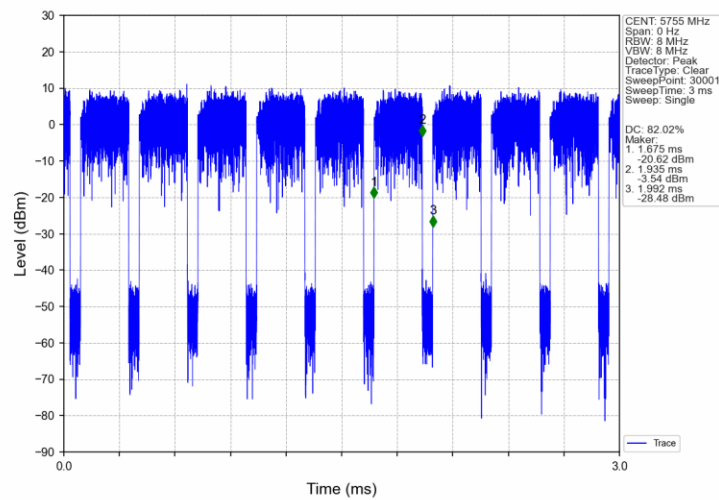
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



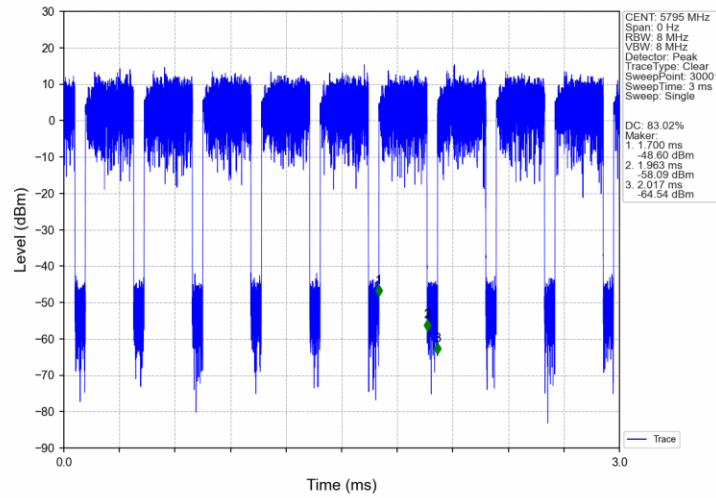
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



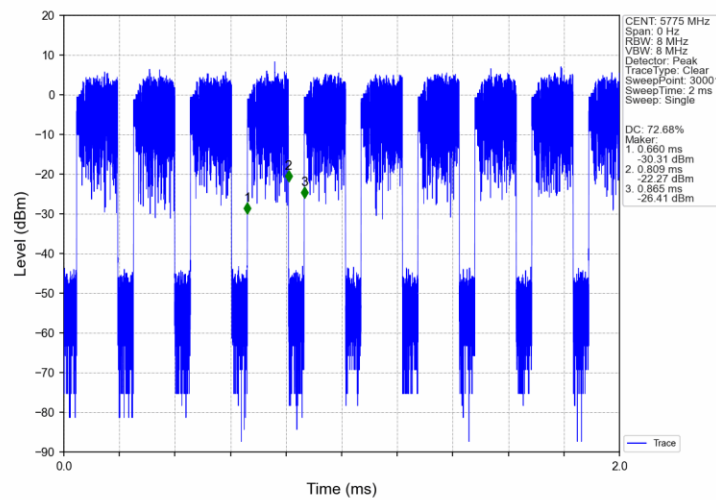
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



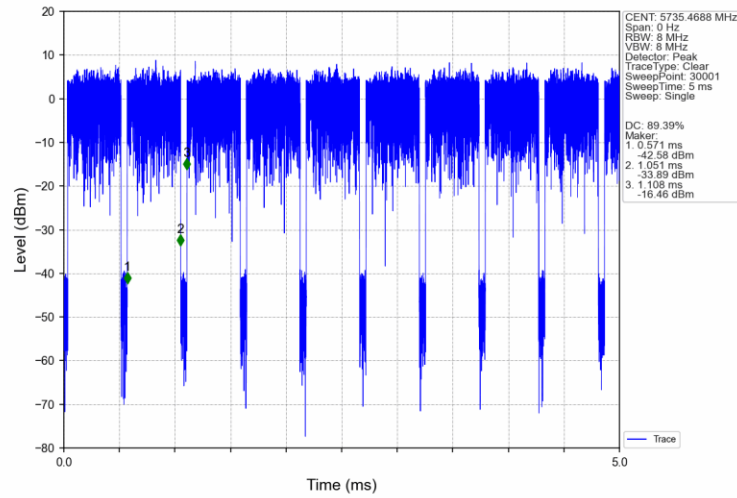
802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



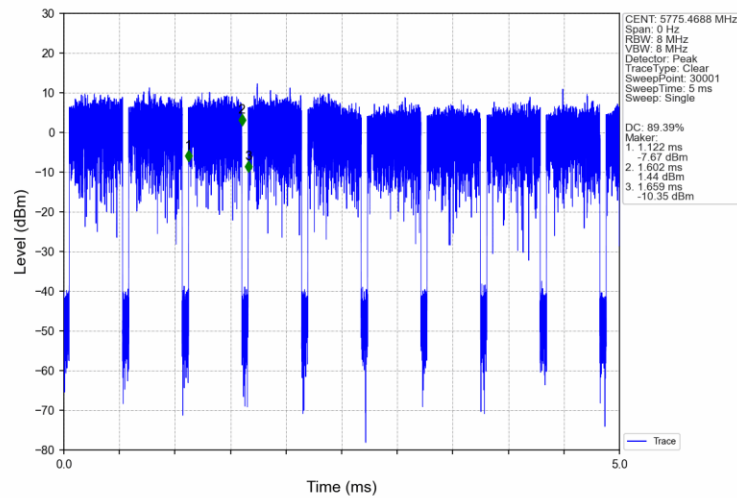
802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



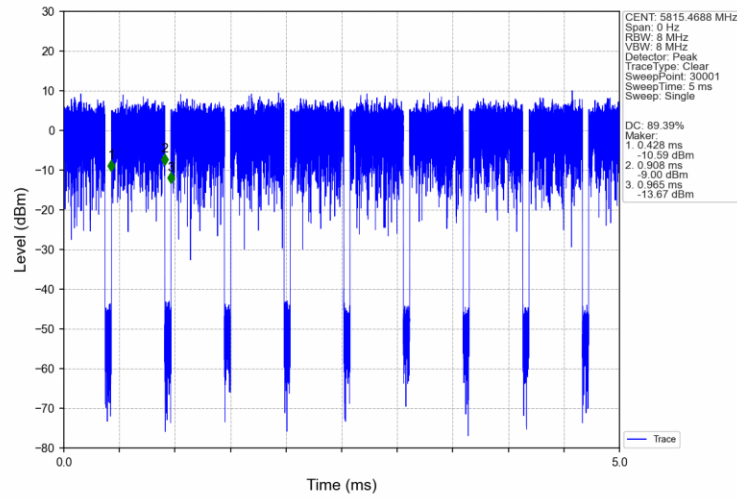
802.11ax(HEW20)_LCH_5745MHz_SU_/_Ant2_NTNV



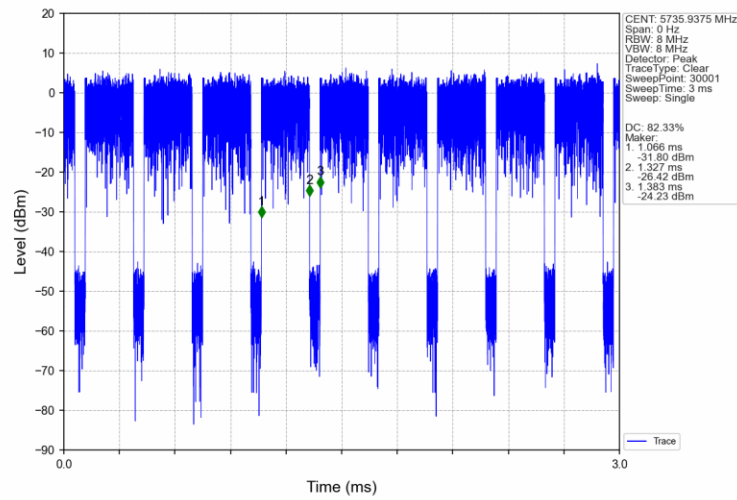
802.11ax(HEW20)_MCH_5785MHz_SU_/_Ant2_NTNV



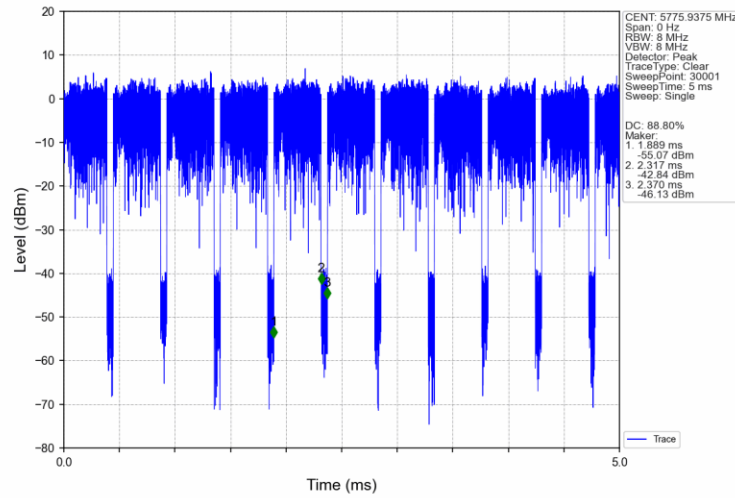
802.11ax(HEW20)_HCH_5825MHz_SU_/_Ant2_NTNV



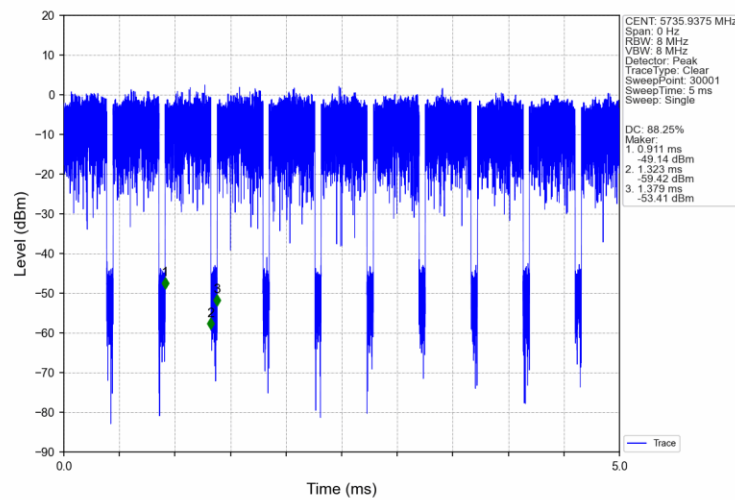
802.11ax(HEW40)_LCH_5755MHz_SU_/_Ant2_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_/_Ant2_NTNV



802.11ax(HEW80)_MCH_5775MHz_SU_/_Ant2_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	MIMO	5745	/	/	2	17.485	/	Pass
		5785	/	/	2	17.273	/	Pass
		5825	/	/	2	17.503	/	Pass
802.11n (HT20)	MIMO	5745	/	/	2	18.603	/	Pass
		5785	/	/	2	18.371	/	Pass
		5825	/	/	2	18.654	/	Pass
802.11n (HT40)	MIMO	5755	/	/	2	36.652	/	Pass
		5795	/	/	2	36.301	/	Pass
802.11ac (VHT20)	MIMO	5745	/	/	2	18.620	/	Pass
		5785	/	/	2	18.252	/	Pass
		5825	/	/	2	18.477	/	Pass
802.11ac (VHT40)	MIMO	5755	/	/	2	36.997	/	Pass
		5795	/	/	2	36.401	/	Pass
802.11ac (VHT80)	MIMO	5775	/	/	2	75.595	/	Pass
802.11ax (HEW20)	MIMO	5745	SU	/	2	18.513	/	Pass
		5785	SU	/	2	18.291	/	Pass
		5825	SU	/	2	18.345	/	Pass
802.11ax (HEW40)	MIMO	5755	SU	/	2	36.816	/	Pass
		5795	SU	/	2	37.736	/	Pass
802.11ax (HEW80)	MIMO	5775	SU	/	2	77.127	/	Pass

Remark: All the patterns have been tested, and only the worst data is reflected in the report.

2.1.2 6dB BW

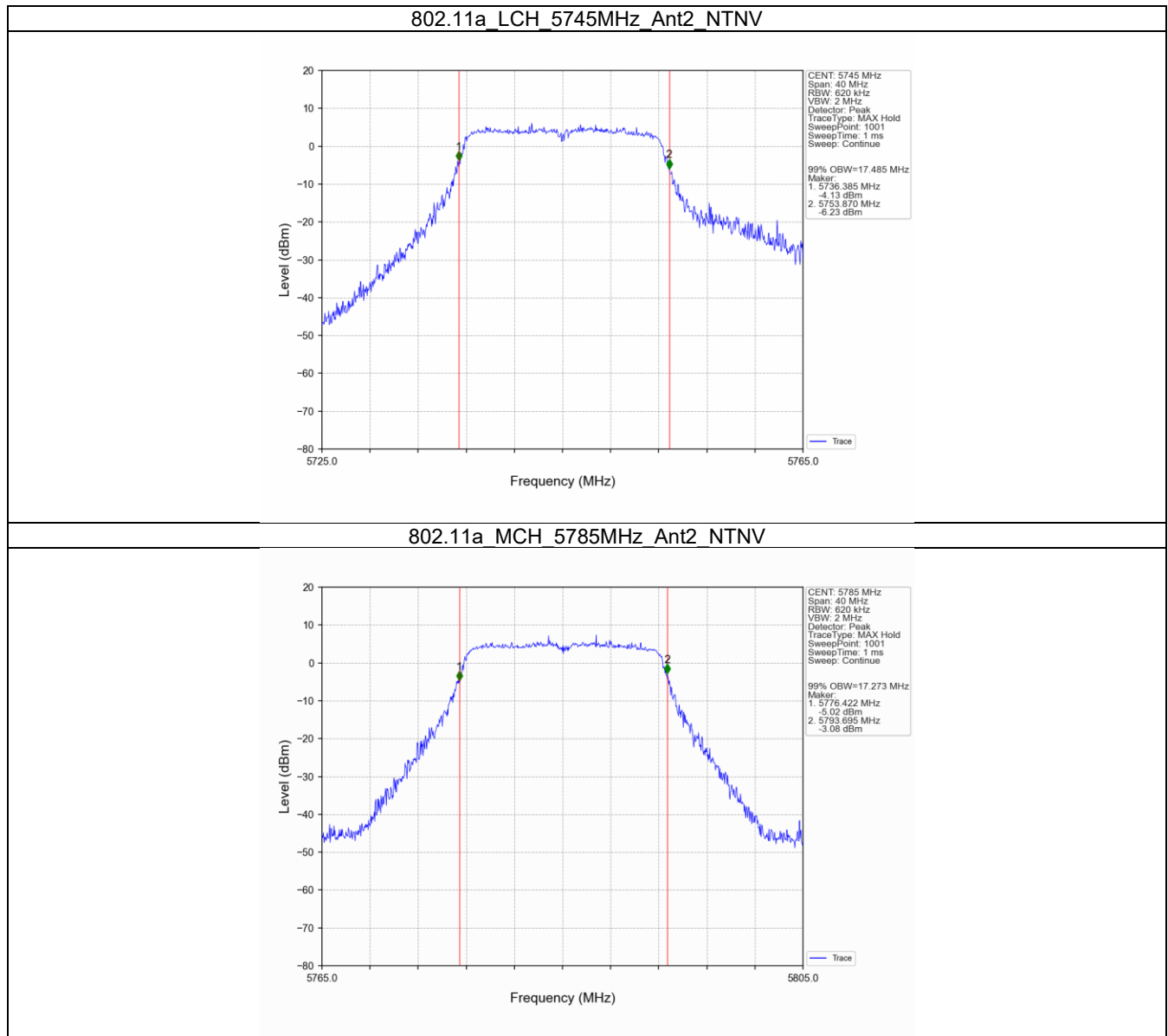
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	MIMO	5745	/	/	2	16.116	>=0.5	Pass
		5785	/	/	2	16.366	>=0.5	Pass
		5825	/	/	2	16.322	>=0.5	Pass
802.11n (HT20)	MIMO	5745	/	/	2	17.619	>=0.5	Pass
		5785	/	/	2	17.602	>=0.5	Pass
		5825	/	/	2	17.611	>=0.5	Pass
802.11n (HT40)	MIMO	5755	/	/	2	33.905	>=0.5	Pass
		5795	/	/	2	33.886	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	/	/	2	17.578	>=0.5	Pass
		5785	/	/	2	17.382	>=0.5	Pass
		5825	/	/	2	17.185	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	/	/	2	35.081	>=0.5	Pass
		5795	/	/	2	35.079	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	/	/	2	75.122	>=0.5	Pass
802.11ax (HEW20)	MIMO	5745	SU	/	2	17.302	>=0.5	Pass
		5785	SU	/	2	17.234	>=0.5	Pass
		5825	SU	/	2	17.579	>=0.5	Pass
802.11ax	MIMO	5755	SU	/	2	33.873	>=0.5	Pass

(HEW40)		5795	SU	/	2	35.517	≥ 0.5	Pass
802.11ax (HEW80)	MIMO	5775	SU	/	2	73.815	≥ 0.5	Pass

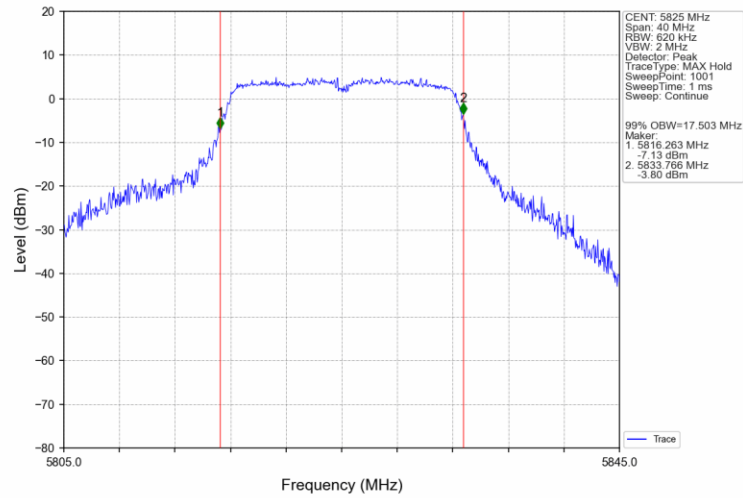
Remark: All the patterns have been tested, and only the worst data is reflected in the report.

2.2 Test Graph

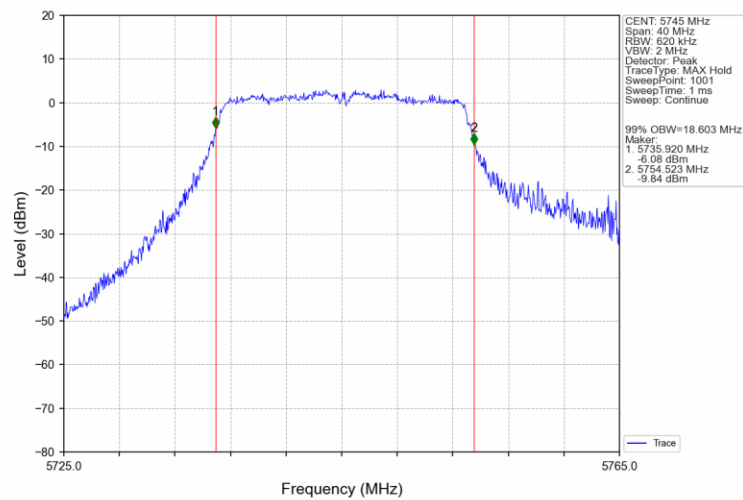
2.2.1 OBW



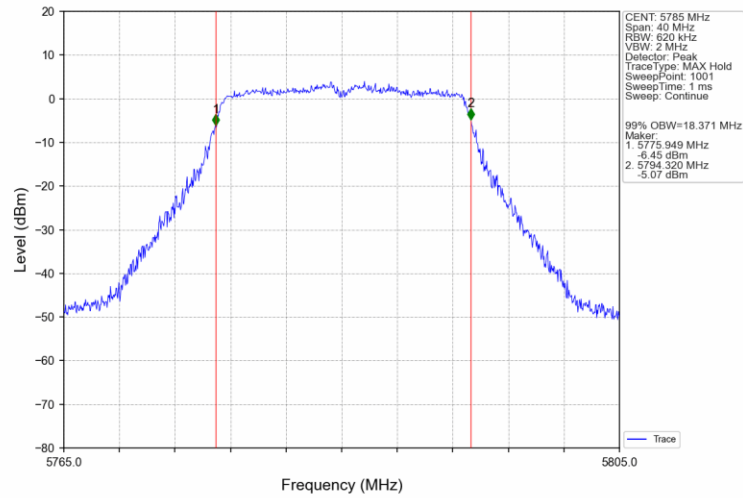
802.11a_HCH_5825MHz_Ant2_NTNV



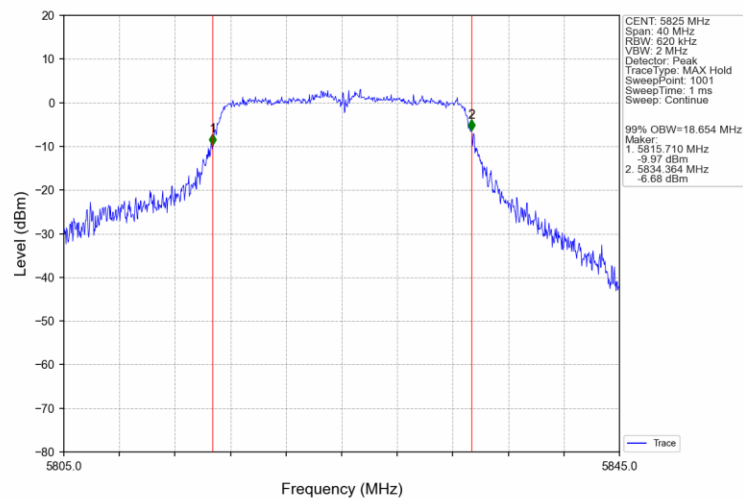
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



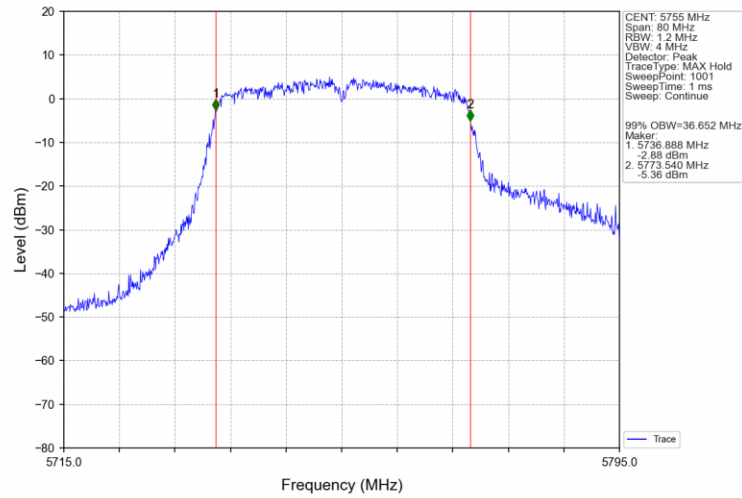
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



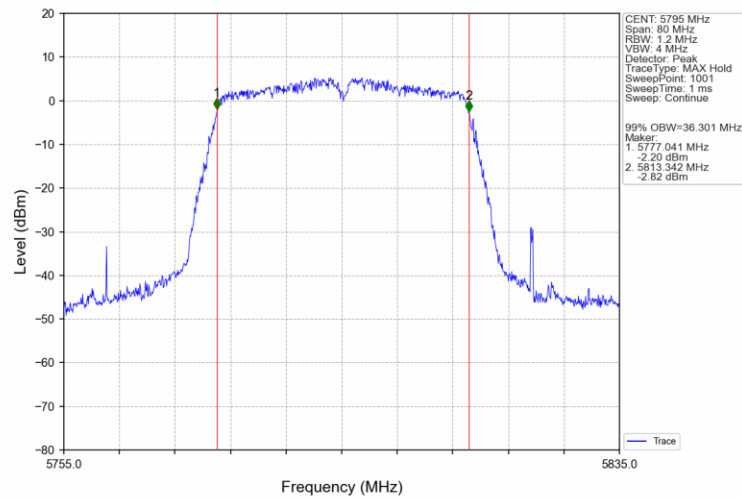
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



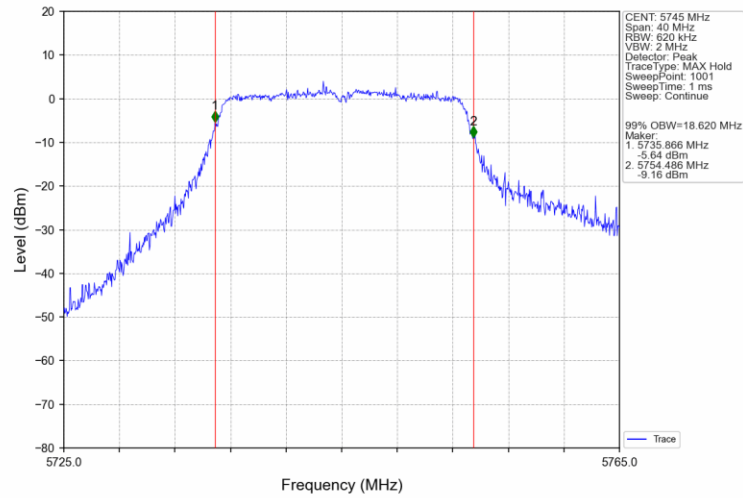
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



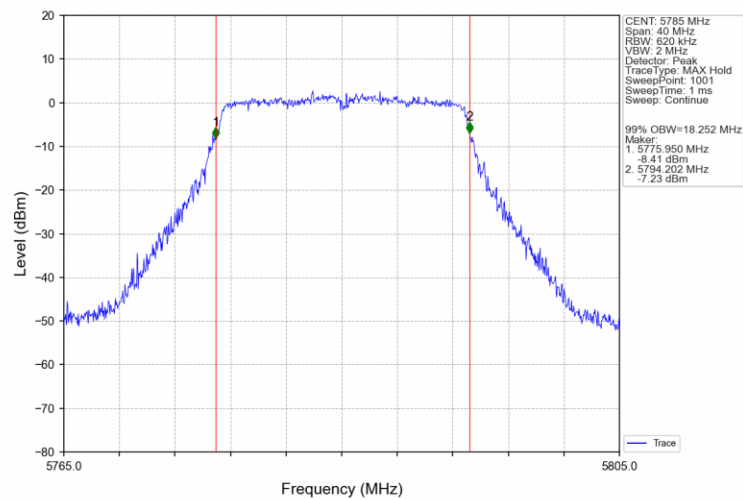
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



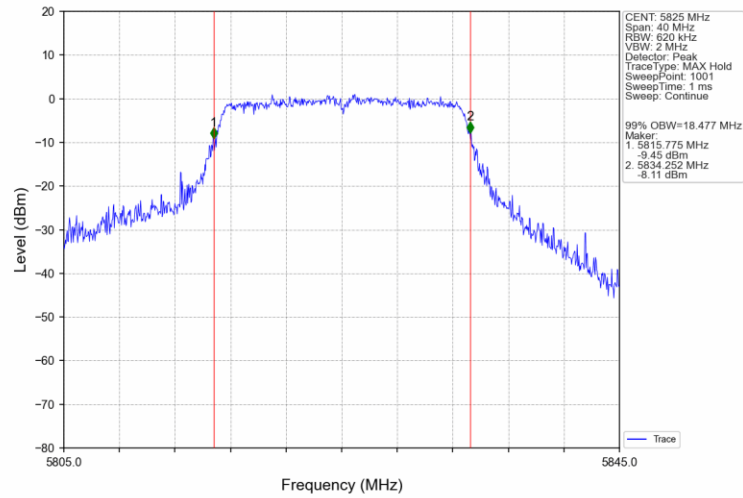
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



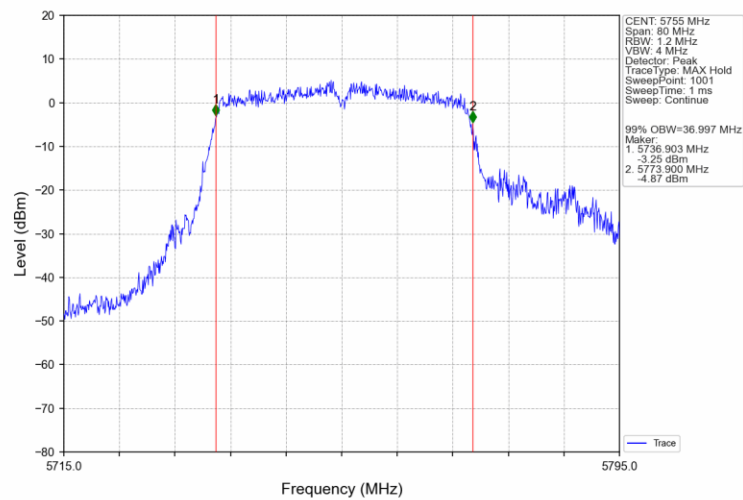
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



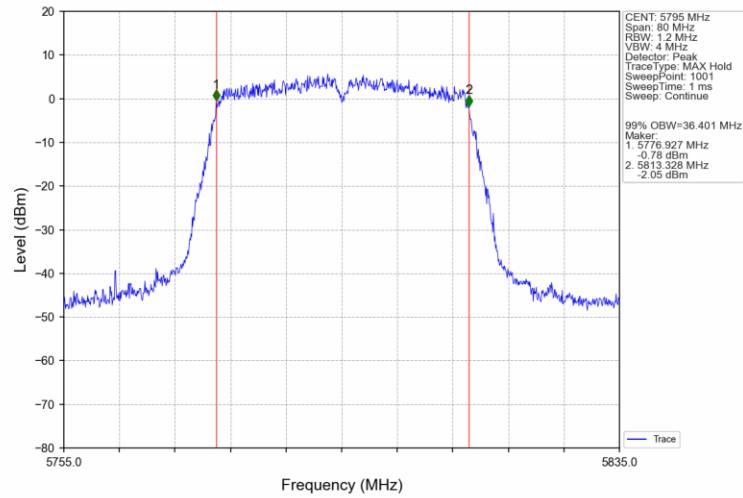
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



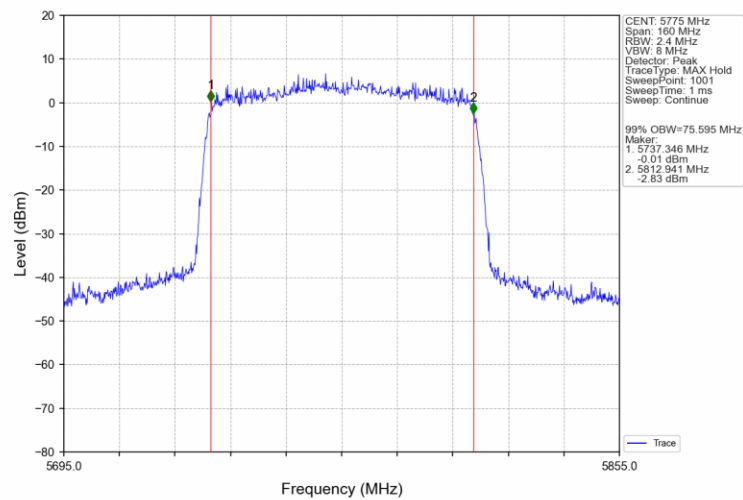
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



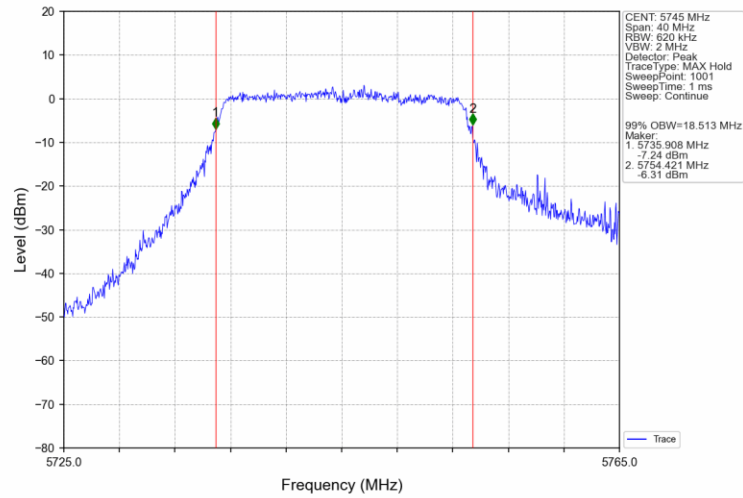
802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



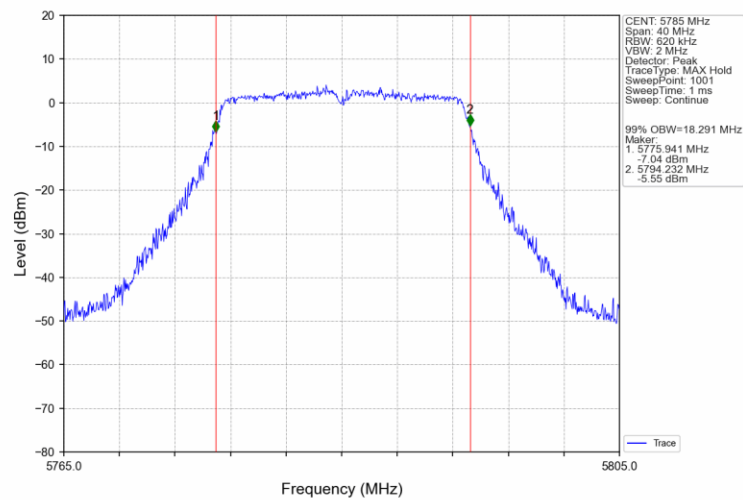
802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



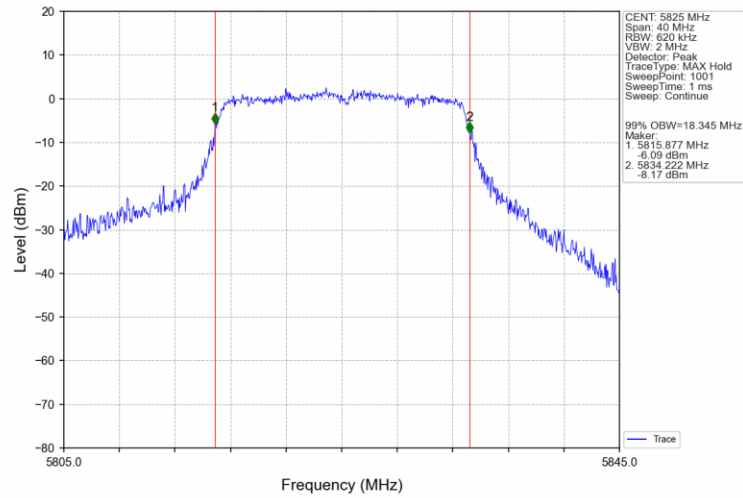
802.11ax(HEW20)_LCH_5745MHz_SU_/_Ant2_NTNV



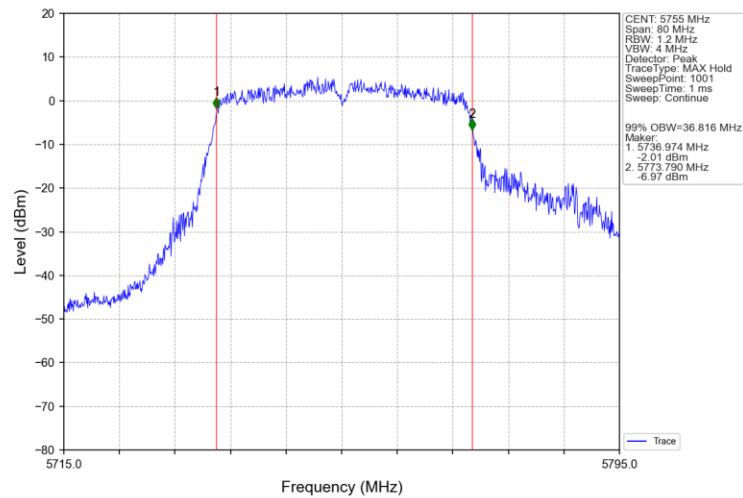
802.11ax(HEW20)_MCH_5785MHz_SU_/_Ant2_NTNV



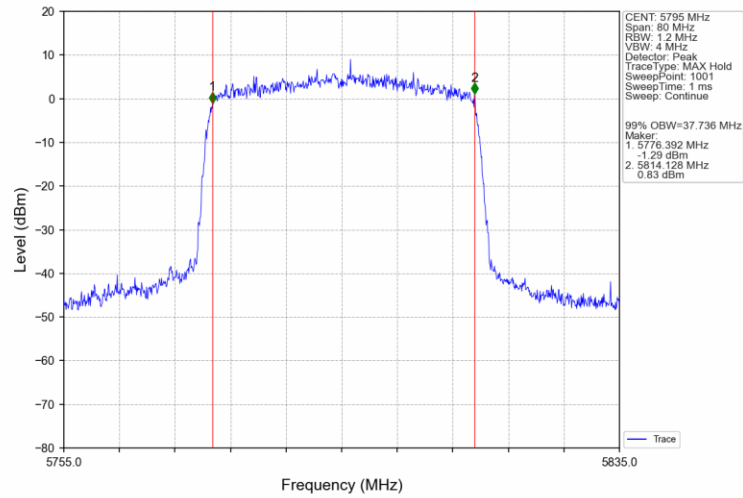
802.11ax(HEW20)_HCH_5825MHz_SU / _Ant2_NTNV



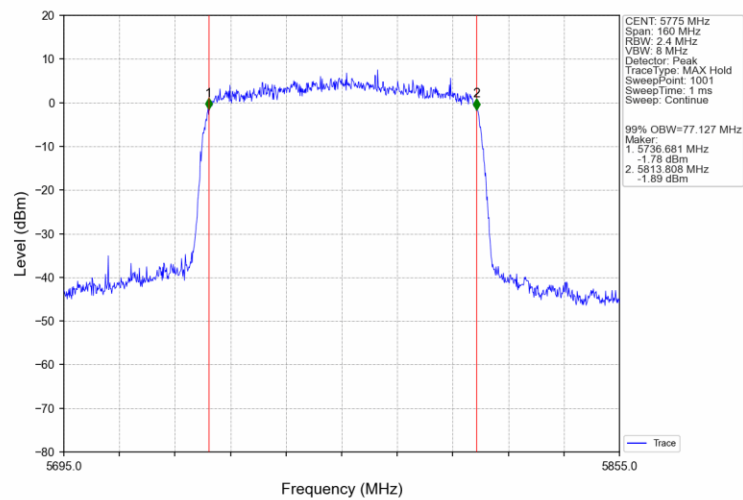
802.11ax(HEW40)_LCH_5755MHz_SU / _Ant2_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_/_Ant2_NTNV

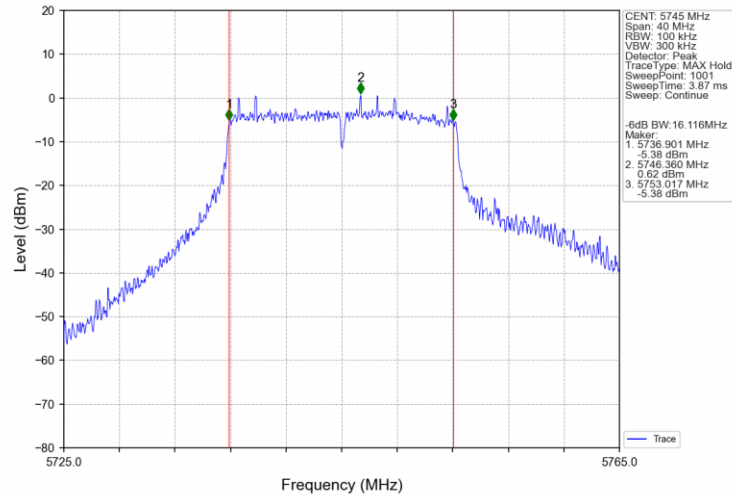


802.11ax(HEW80)_MCH_5775MHz_SU_/_Ant2_NTNV

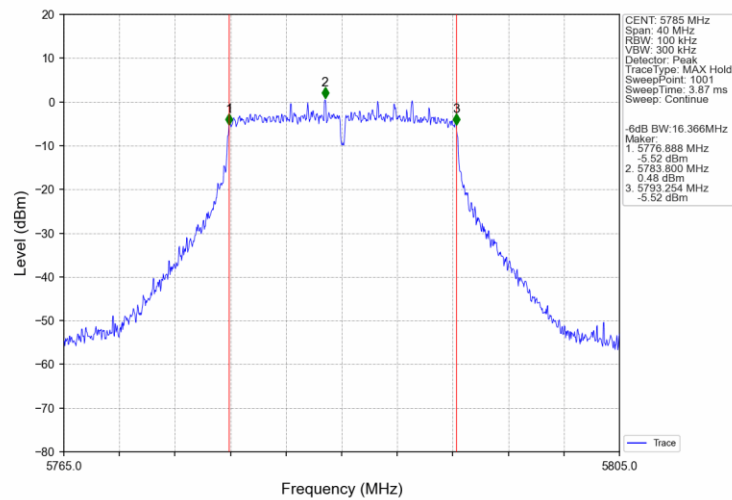


2.2.2 6dB BW

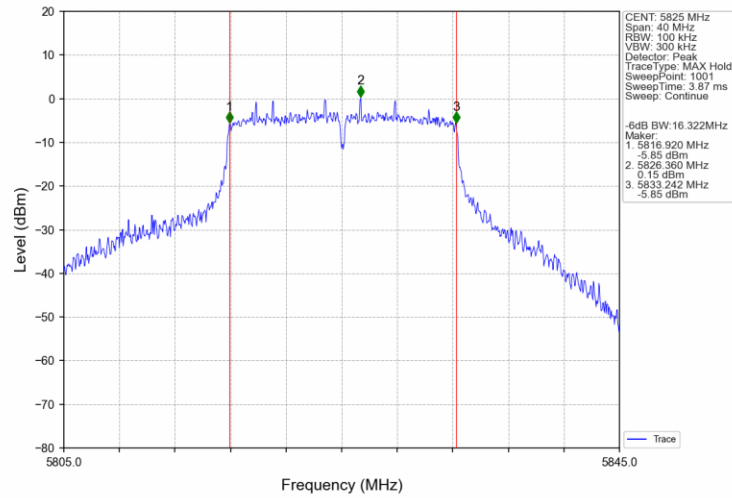
802.11a_LCH_5745MHz_Ant2_NTNV



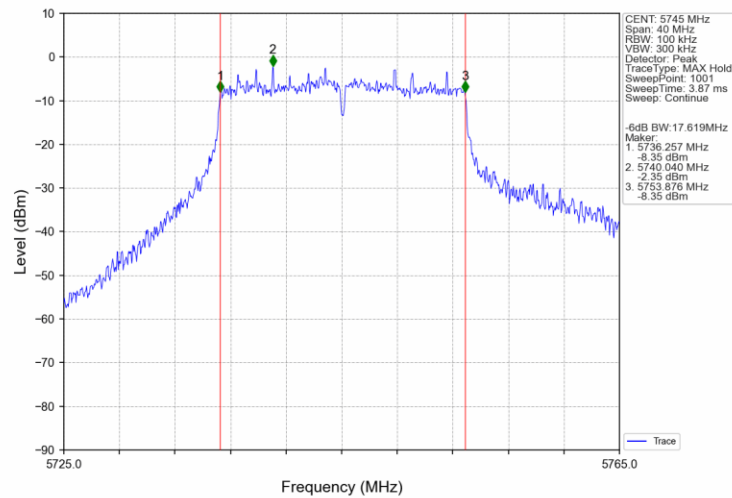
802.11a_MCH_5785MHz_Ant2_NTNV



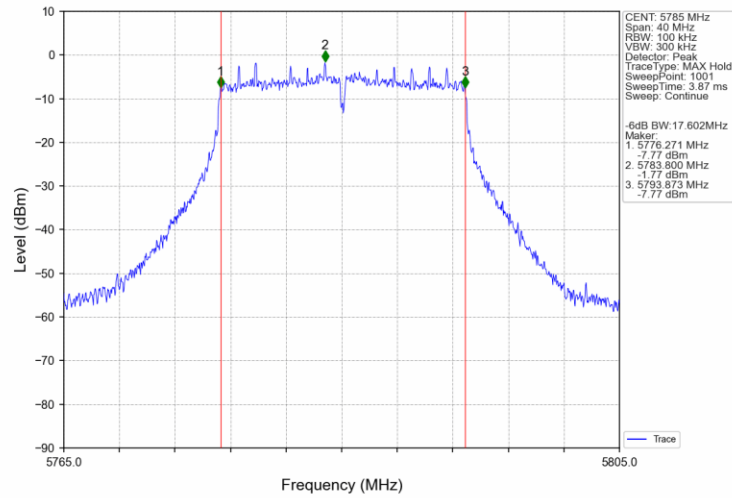
802.11a_HCH_5825MHz_Ant2_NTNV



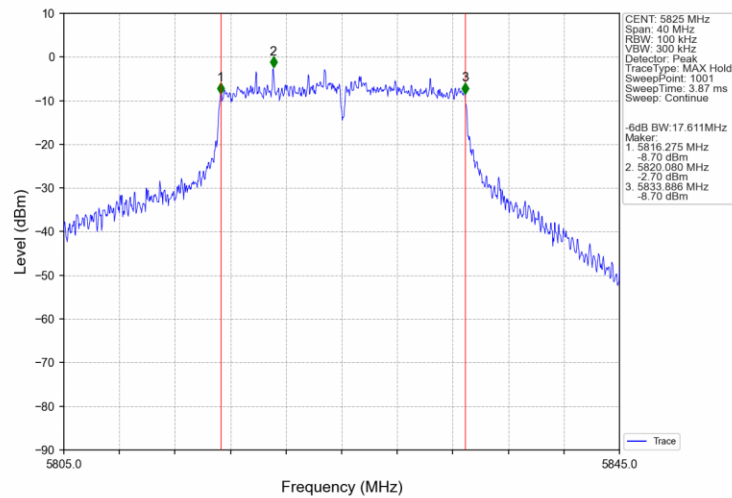
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



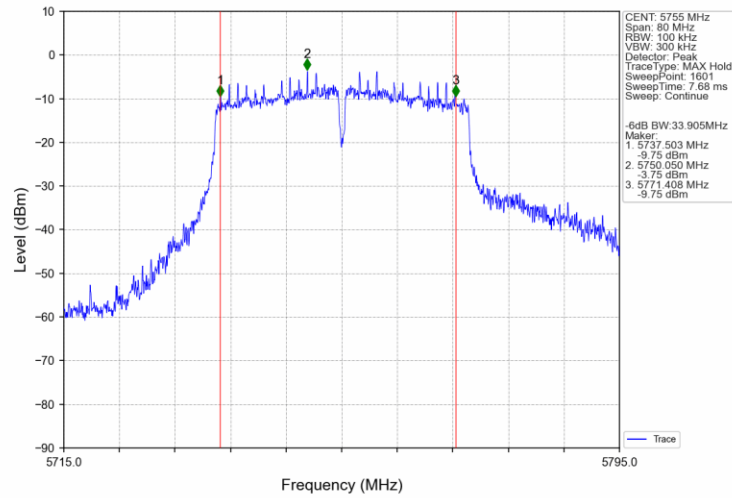
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



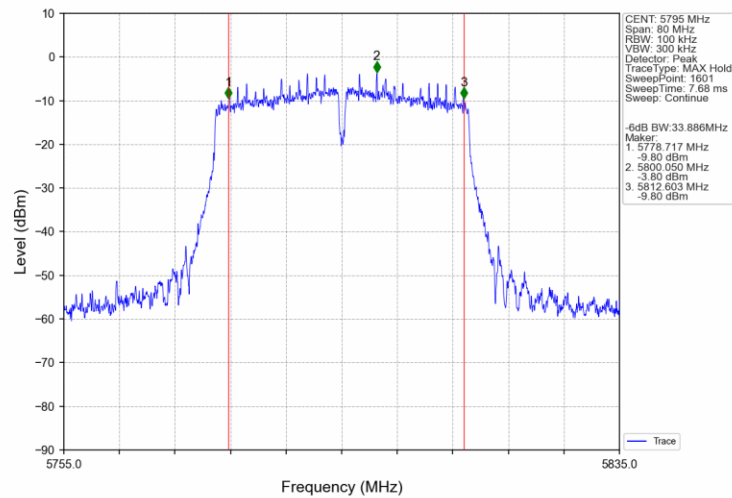
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



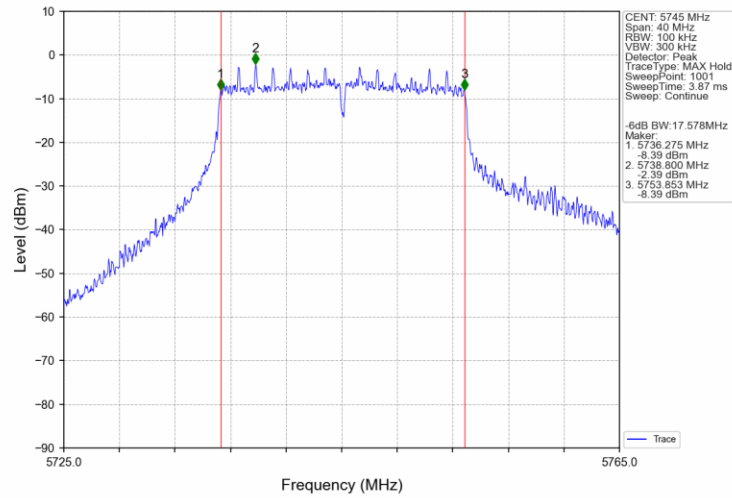
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



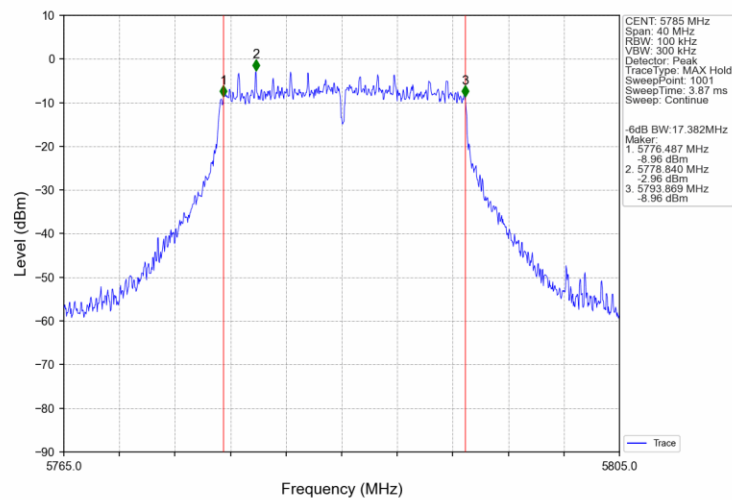
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



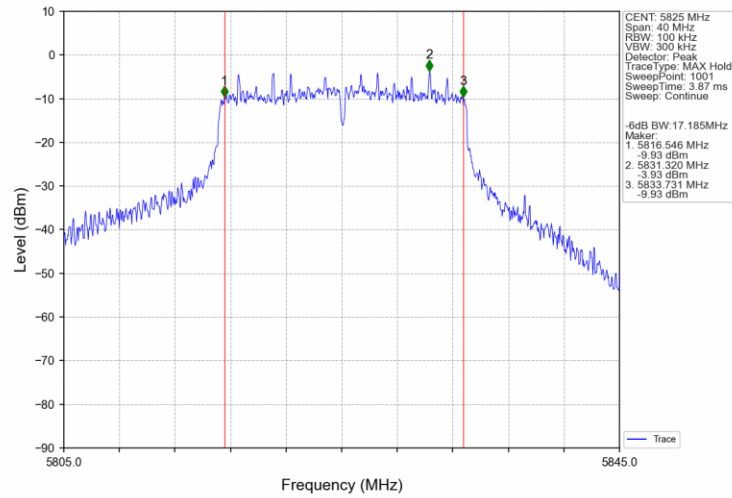
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



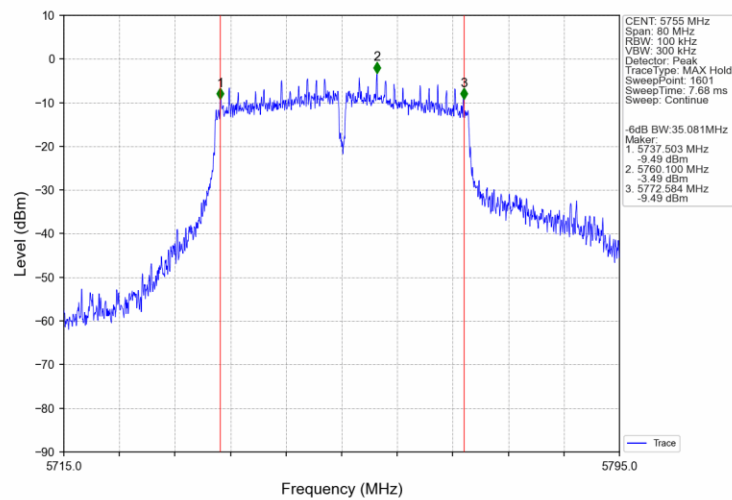
802.11ac(VHT20) MCH 5785MHz_Ant2_NTNV



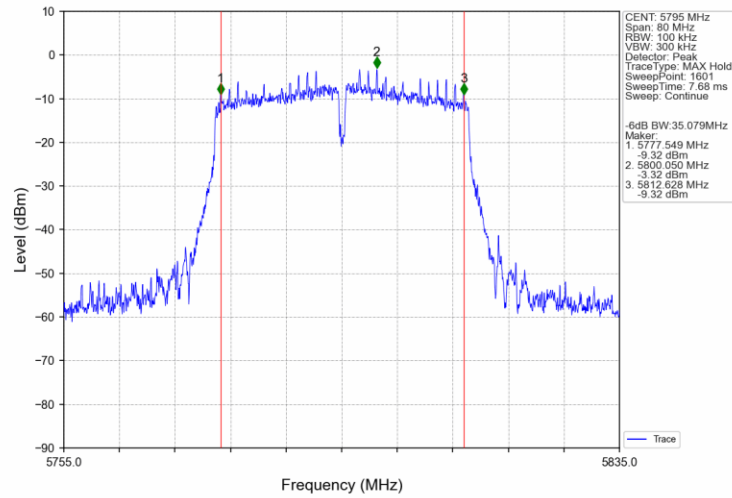
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



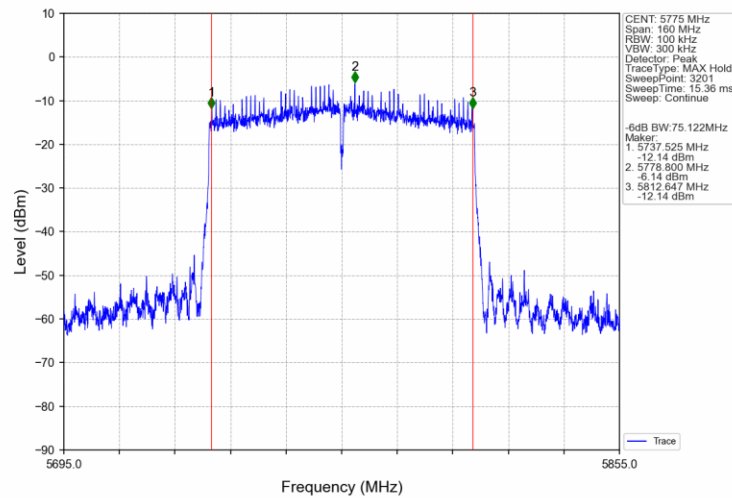
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



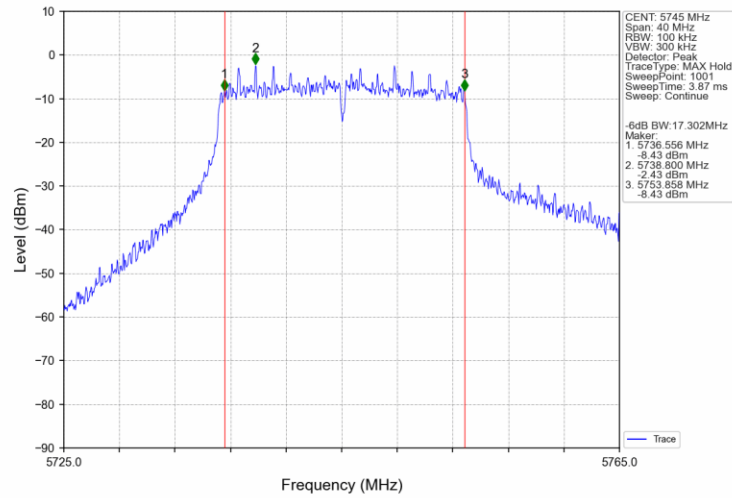
802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



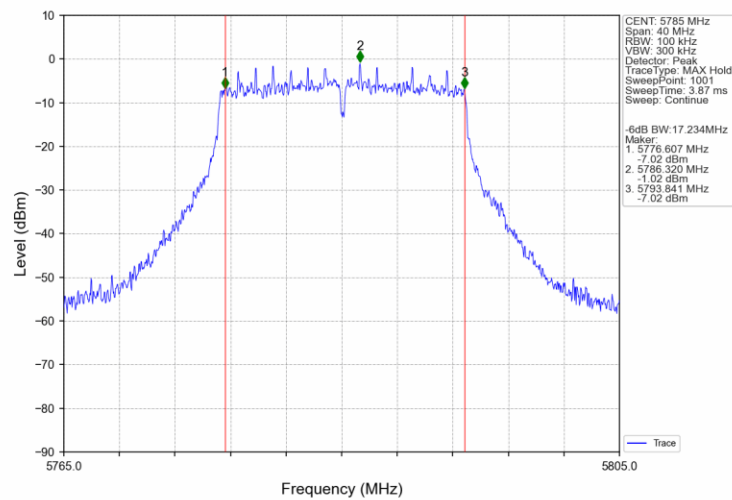
802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



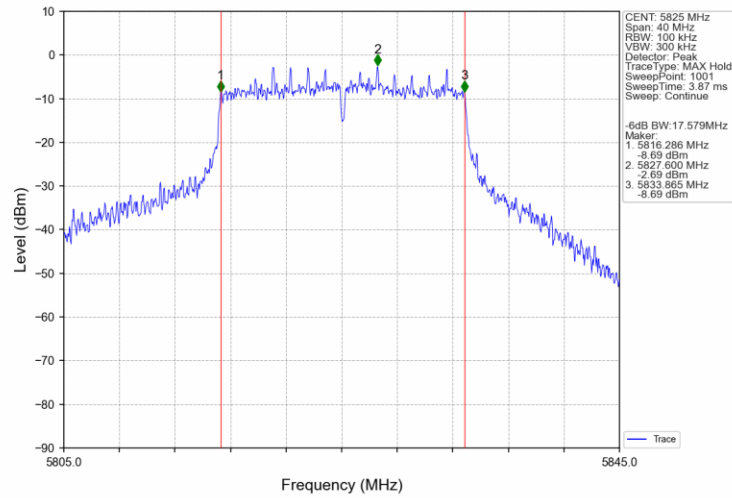
802.11ax(HEW20)_LCH_5745MHz_SU_/_Ant2_NTNV



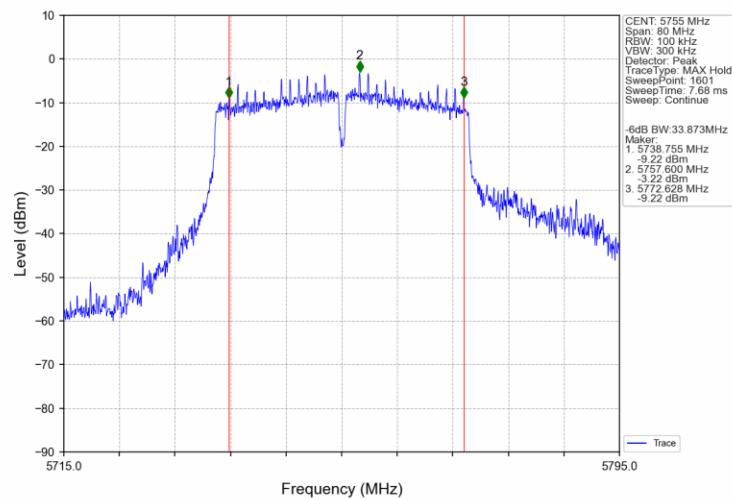
802.11ax(HEW20)_MCH_5785MHz_SU_/_Ant2_NTNV



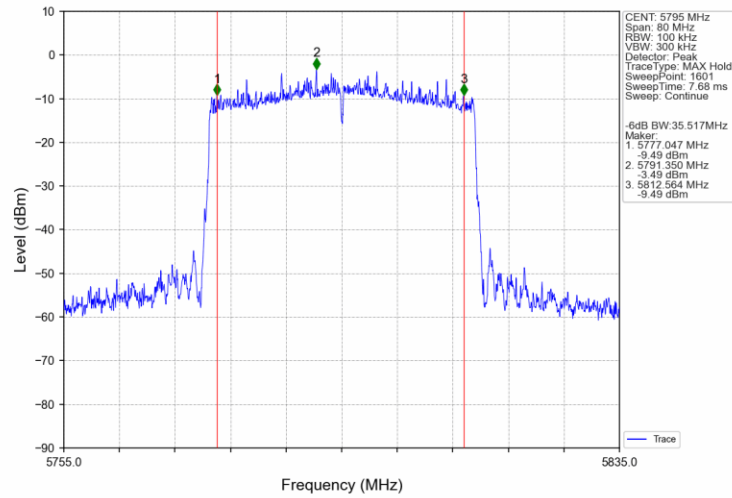
802.11ax(HEW20)_HCH_5825MHz_SU_/_Ant2_NTNV



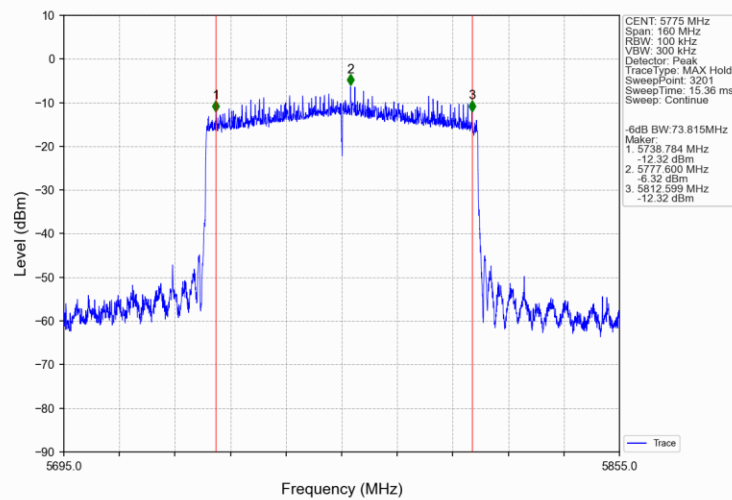
802.11ax(HEW40)_LCH_5755MHz_SU_/_Ant2_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_/_Ant2_NTNV



802.11ax(HEW80)_MCH_5775MHz_SU_/_Ant2_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

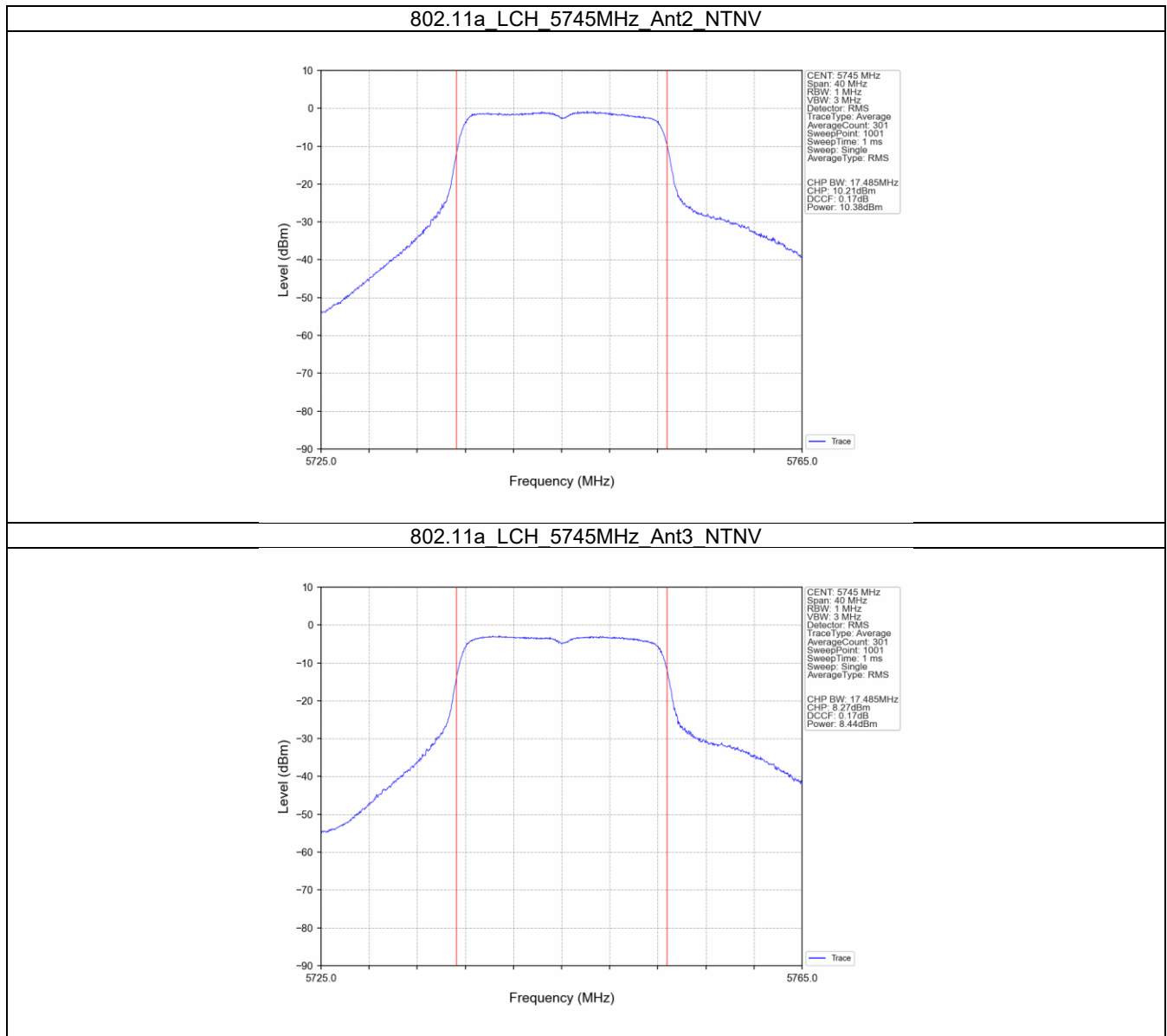
3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)					Verdict
					ANT2	ANT3	ANT4	MIMO	Limit	
802.11a	MIMO	5745	/	/	10.38	8.44	7.85	13.80	<=27.64	Pass
		5785	/	/	11.03	8.63	8.31	14.27	<=27.64	Pass
		5825	/	/	10.96	8.00	6.84	13.73	<=27.64	Pass
802.11n (HT20)	MIMO	5745	/	/	8.84	6.96	6.36	12.29	<=27.64	Pass
		5785	/	/	9.56	7.28	6.91	12.85	<=27.64	Pass
		5825	/	/	8.06	6.45	5.33	11.53	<=27.64	Pass
802.11n (HT40)	MIMO	5755	/	/	9.06	7.27	6.69	12.57	<=27.64	Pass
		5795	/	/	9.30	7.67	6.83	12.83	<=27.64	Pass
802.11ac (VHT20)	MIMO	5745	/	/	8.38	7.16	6.47	12.18	<=27.64	Pass
		5785	/	/	7.22	7.40	6.98	11.97	<=27.64	Pass
		5825	/	/	8.00	8.54	7.38	12.77	<=27.64	Pass
802.11ac (VHT40)	MIMO	5755	/	/	8.00	8.21	7.68	12.74	<=27.64	Pass
		5795	/	/	8.57	8.53	7.77	13.08	<=27.64	Pass
802.11ac (VHT80)	MIMO	5775	/	/	7.98	7.85	7.28	12.49	<=27.64	Pass
802.11ax (HEW20)	MIMO	5745	SU	/	7.47	8.10	7.44	12.45	<=27.64	Pass
		5785	SU	/	8.42	8.39	7.93	13.02	<=27.64	Pass
		5825	SU	/	6.96	7.58	6.40	11.78	<=27.64	Pass
802.11ax (HEW40)	MIMO	5755	SU	/	8.06	8.20	7.76	12.78	<=27.64	Pass
		5795	SU	/	8.69	8.87	8.17	13.36	<=27.64	Pass
802.11ax (HEW80)	MIMO	5775	SU	/	8.26	8.24	7.68	12.84	<=27.64	Pass

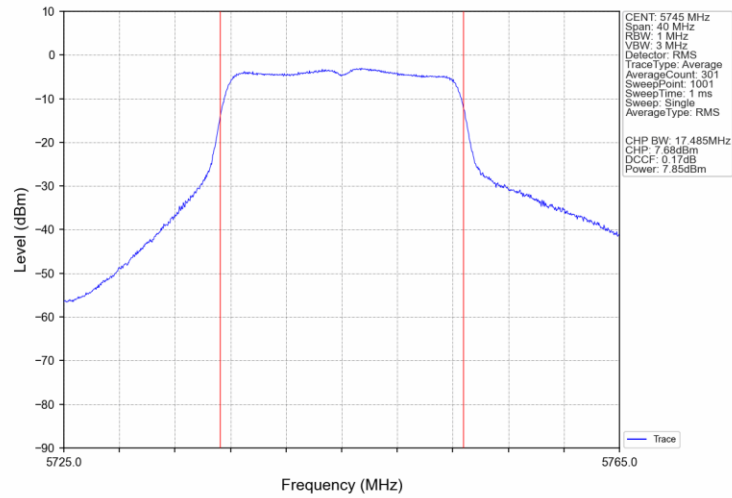
Note1: Antenna Gain: Ant2: 3.72dBi; Ant3: 3.67dBi; Ant4: 3.36dBi Directional gain : 8.36dBi
Note2: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})^2 / NANT]$, where G is the antenna gain in dBi, NANT it's the number of antennas.
Note3: Average Power Limit (dBm) = 30 dBm - (8.36 dBi - 6 dBi) = 27.64dBm.

3.2 Test Graph

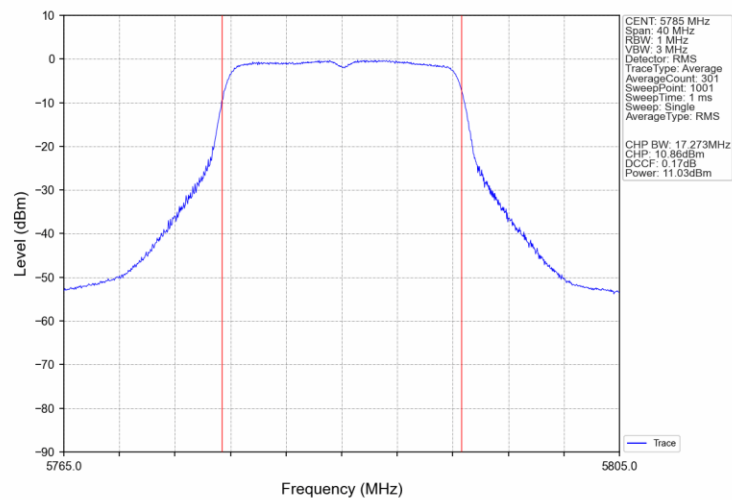
3.2.1 Power



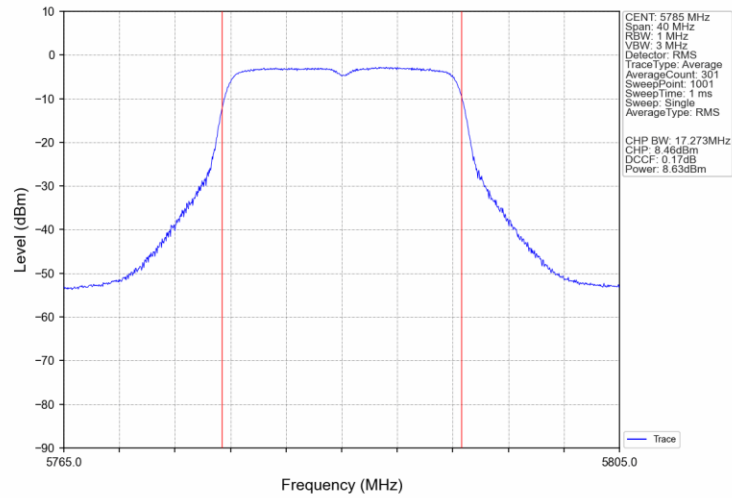
802.11a_LCH_5745MHz_Ant4_NTNV



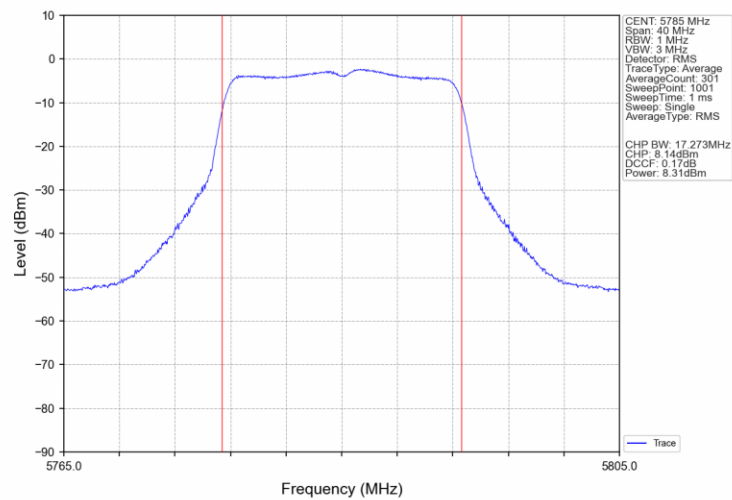
802.11a_MCH_5785MHz_Ant2_NTNV



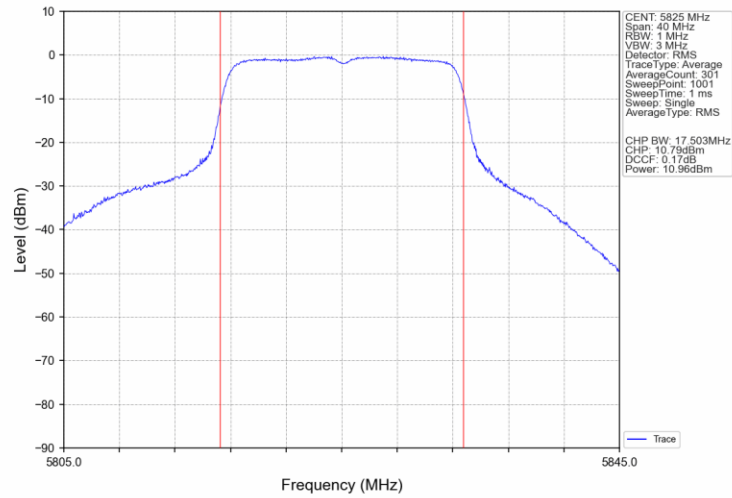
802.11a_MCH_5785MHz_Ant3_NTNV



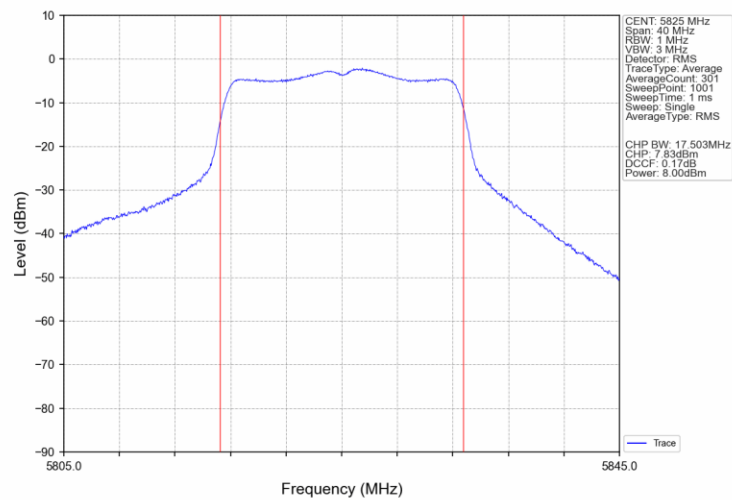
802.11a MCH 5785MHz Ant4 NTNv



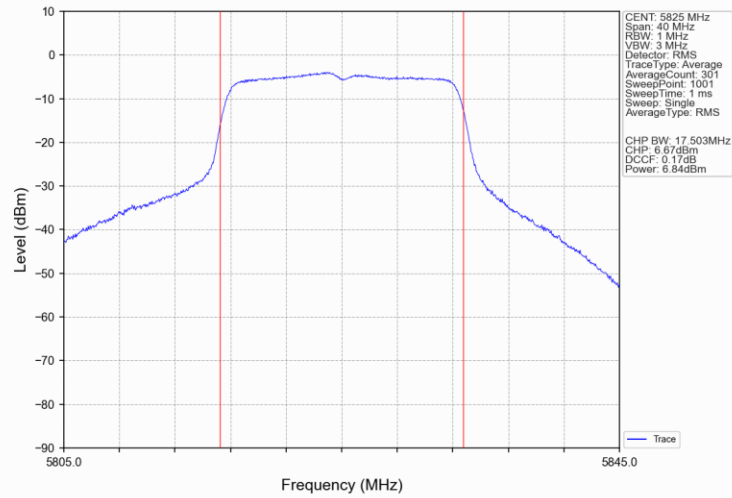
802.11a_HCH_5825MHz_Ant2_NTNV



802.11a_HCH_5825MHz_Ant3_NTNV



802.11a_HCH_5825MHz_Ant4_NTNV



802.11n(HT20)_LCH_5745MHz_Ant2_NTNV

