1. Duty Cycle

1.1 Ant1

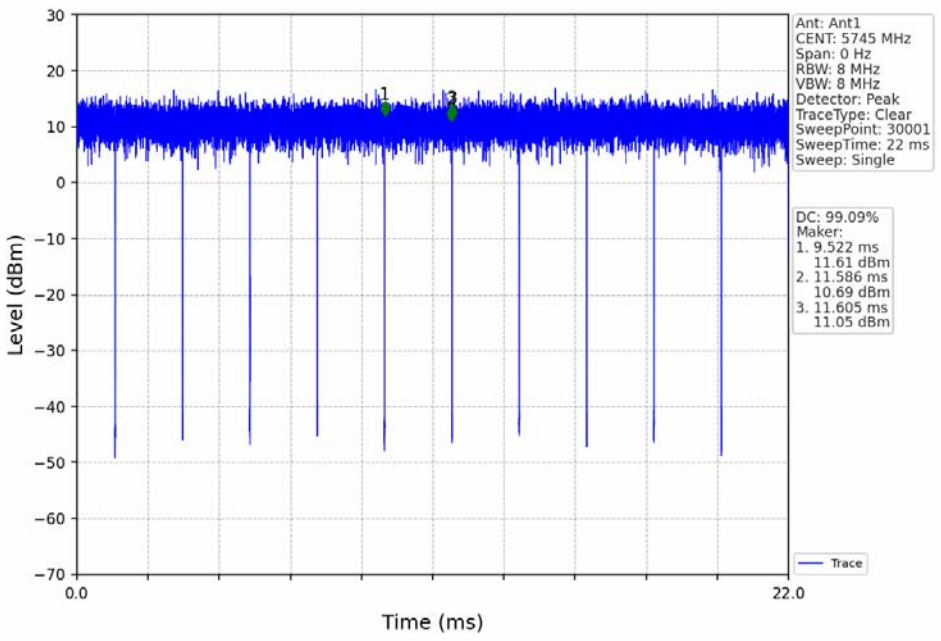
1.1.1 Test Result

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	5745	/	/	2.064	2.083	99.09	0.04	0.04
		5785	/	/	2.067	2.083	99.23	0.03	0.03
		5825	/	/	2.067	2.083	99.23	0.03	0.03
802.11n (HT20)	MIMO	5745	/	/	1.922	1.939	99.12	0.04	0.03
		5785	/	/	1.920	1.939	99.02	0.04	0.07
		5825	/	/	1.920	1.938	99.07	0.04	0.07
802.11n (HT40)	MIMO	5755	/	/	1.539	1.555	98.97	0.04	0.03
		5795	/	/	1.539	1.556	98.91	0.05	0.03
802.11ac (VHT20)	MIMO	5745	/	/	1.319	1.415	93.22	0.31	0.00
		5785	/	/	1.319	1.415	93.22	0.31	0.03
		5825	/	/	1.318	1.414	93.21	0.31	0.03
802.11ac (VHT40)	MIMO	5755	/	/	1.547	1.563	98.98	0.04	0.03
		5795	/	/	1.547	1.563	98.98	0.04	0.00
802.11ac (VHT80)	MIMO	5775	/	/	2.243	2.260	99.25	0.03	0.04
802.11ax (HEW20)	MIMO	5745	RU242	Left	3.815	3.831	99.58	0.02	0.00
		5785	RU242	Left	3.815	3.832	99.56	0.02	0.03
		5825	RU242	Left	3.815	3.831	99.58	0.02	0.00
802.11ax (HEW40)	MIMO	5755	RU484	Left	1.241	1.268	97.87	0.09	0.03
		5795	RU484	Left	1.241	1.268	97.87	0.09	0.03
802.11ax (HEW80)	MIMO	5775	RU996	Left	0.169	0.188	89.89	0.46	0.11

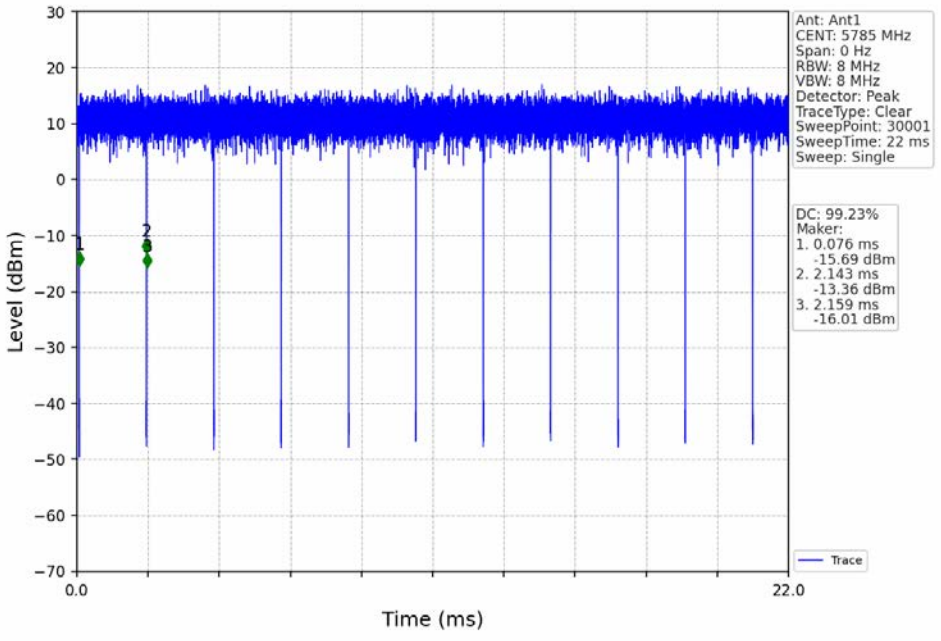
The duty cycle for two antennas were same, only ant 1 report

1.1.2 Test Graph

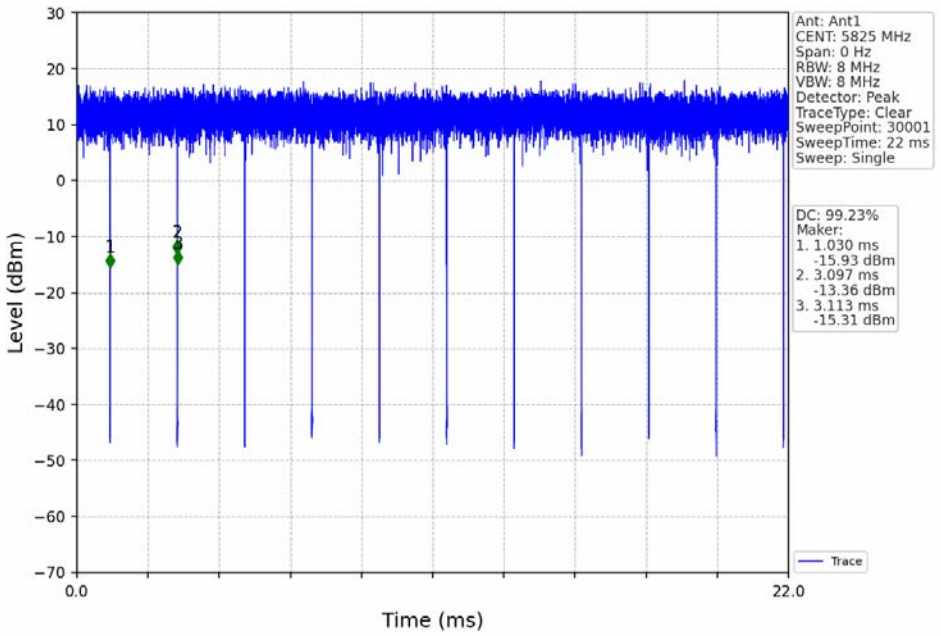
802.11a_LCH_5745MHz_Ant1_NTNV



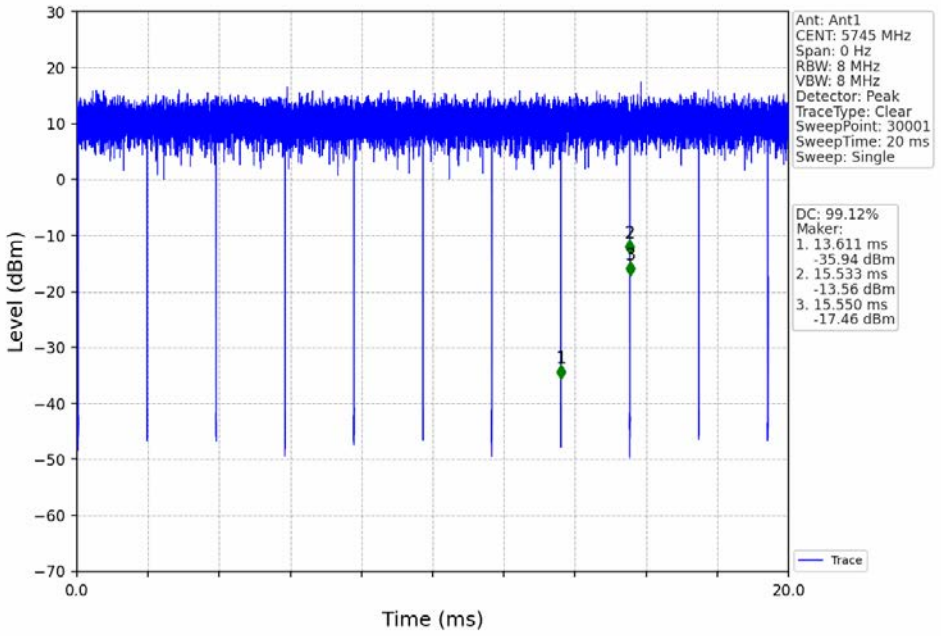
802.11a_MCH_5785MHz_Ant1_NTNV



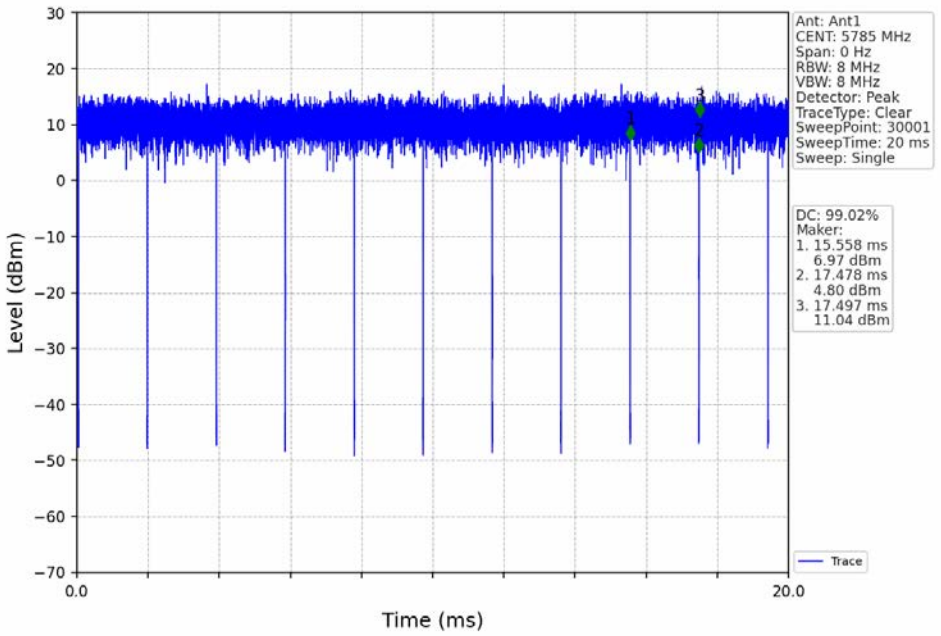
802.11a_HCH_5825MHz_Ant1_NTNV



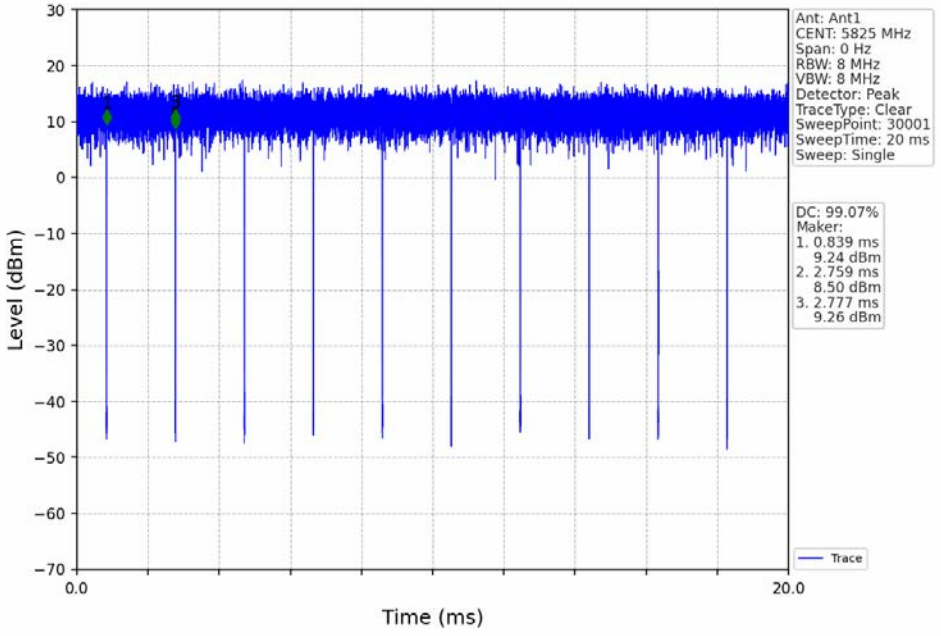
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



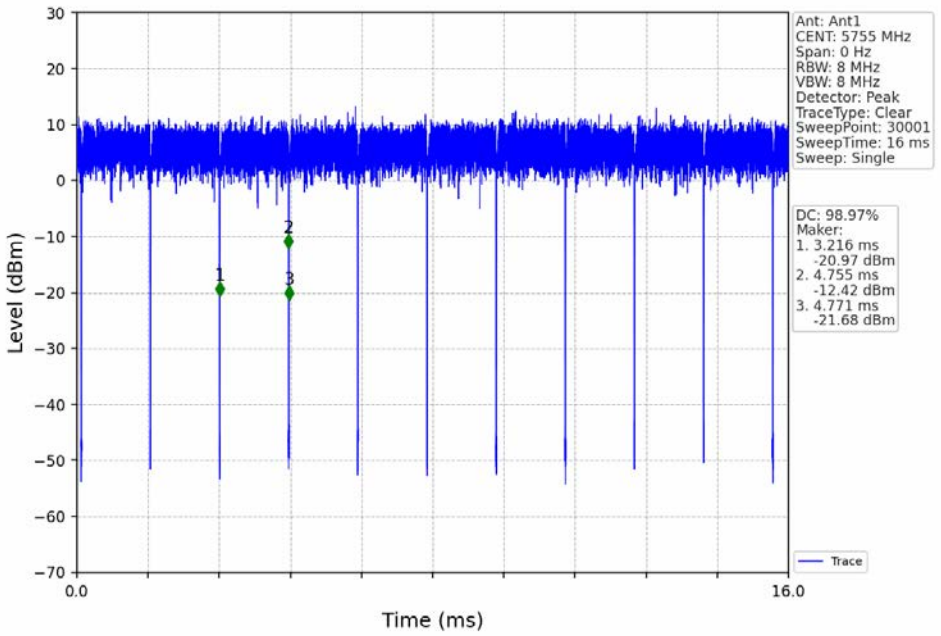
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



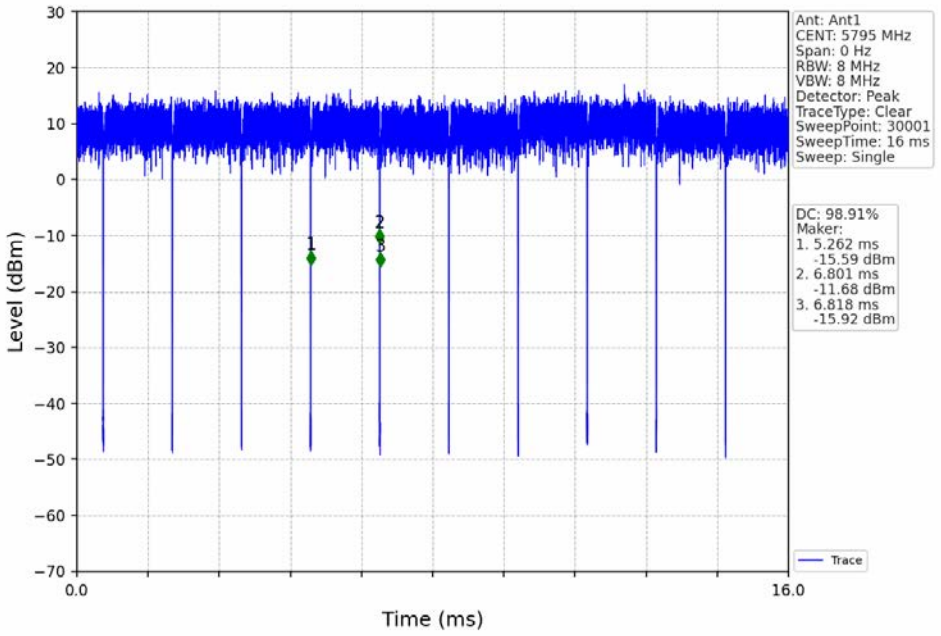
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



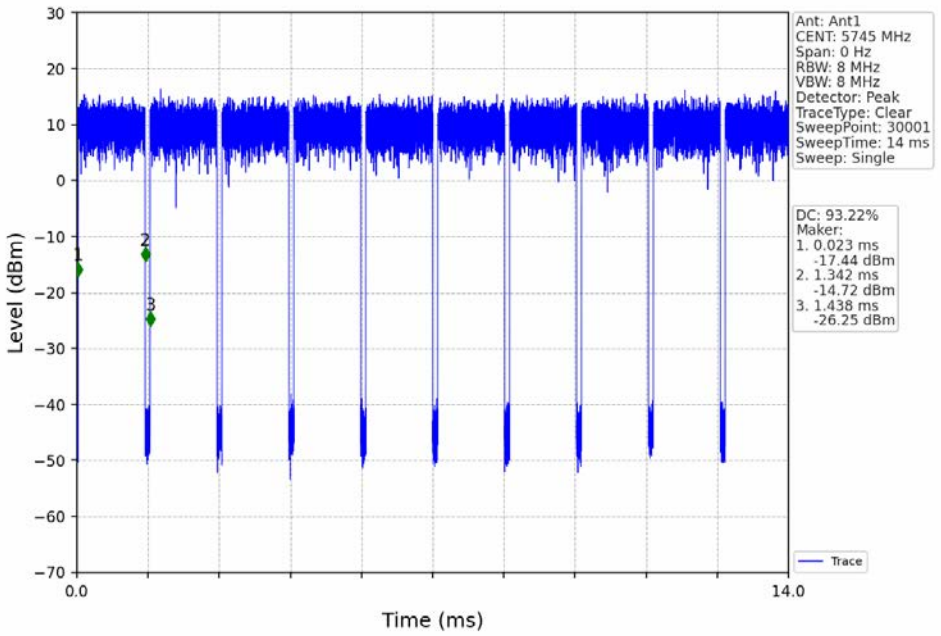
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



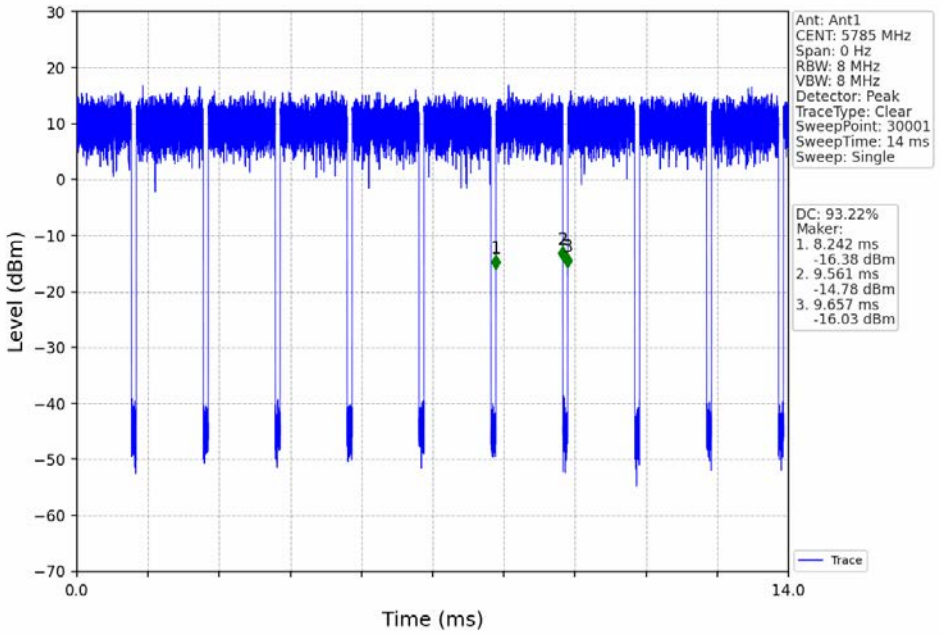
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



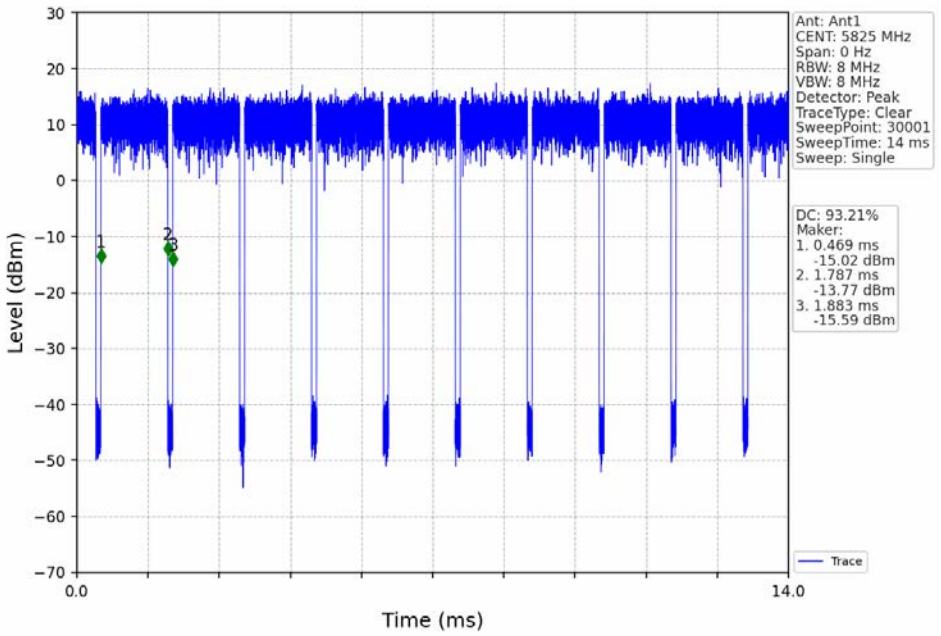
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



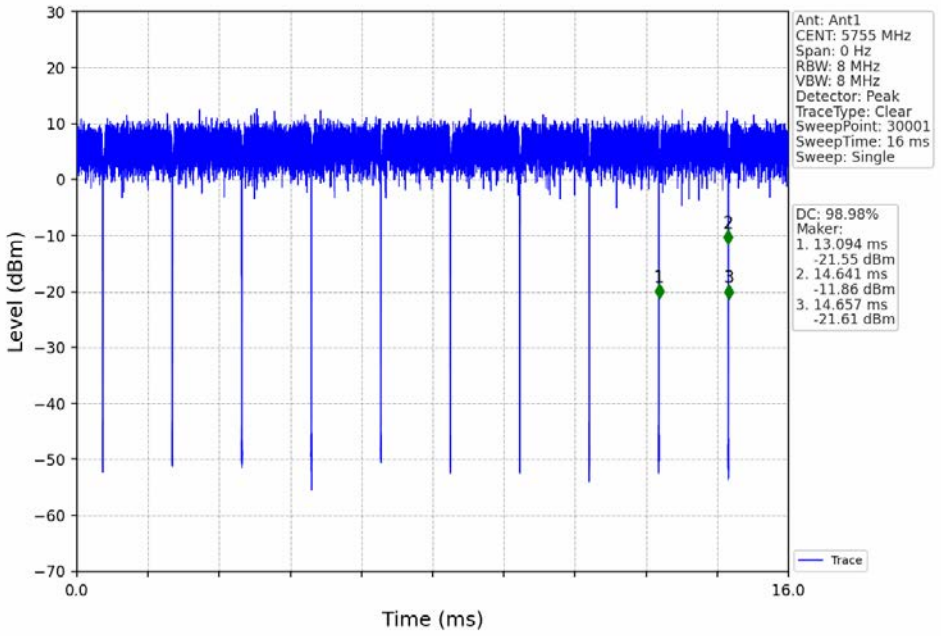
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



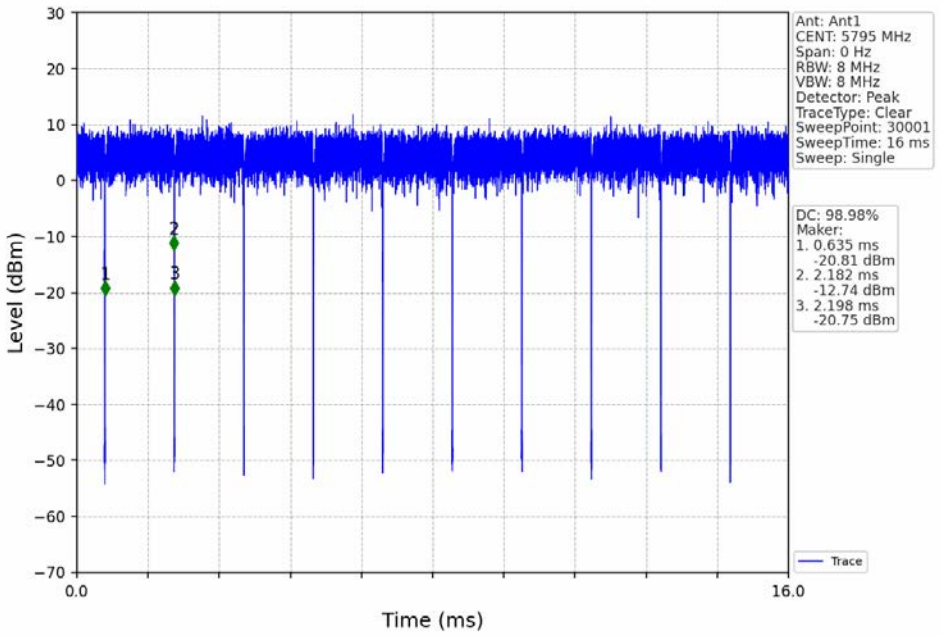
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



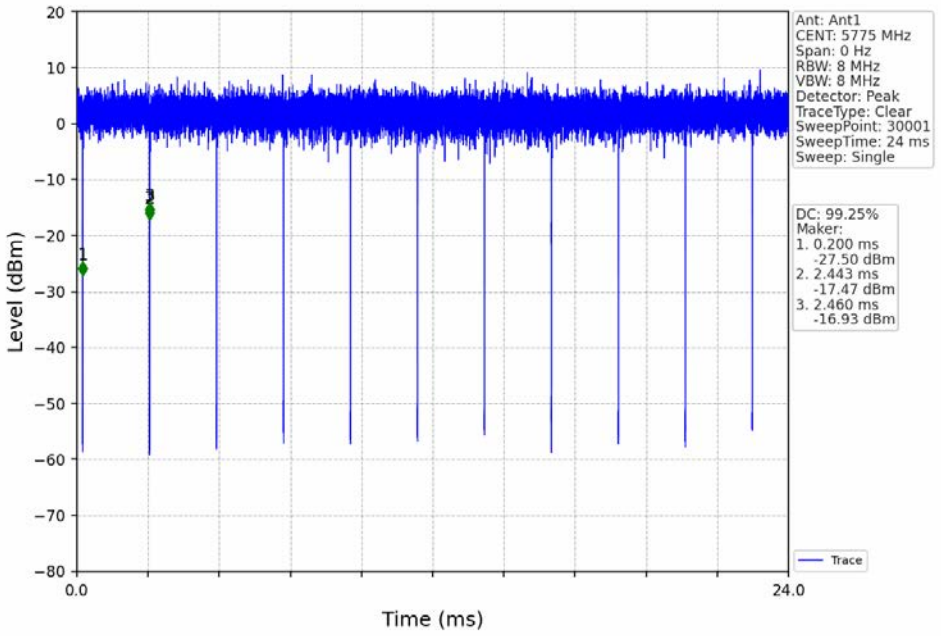
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



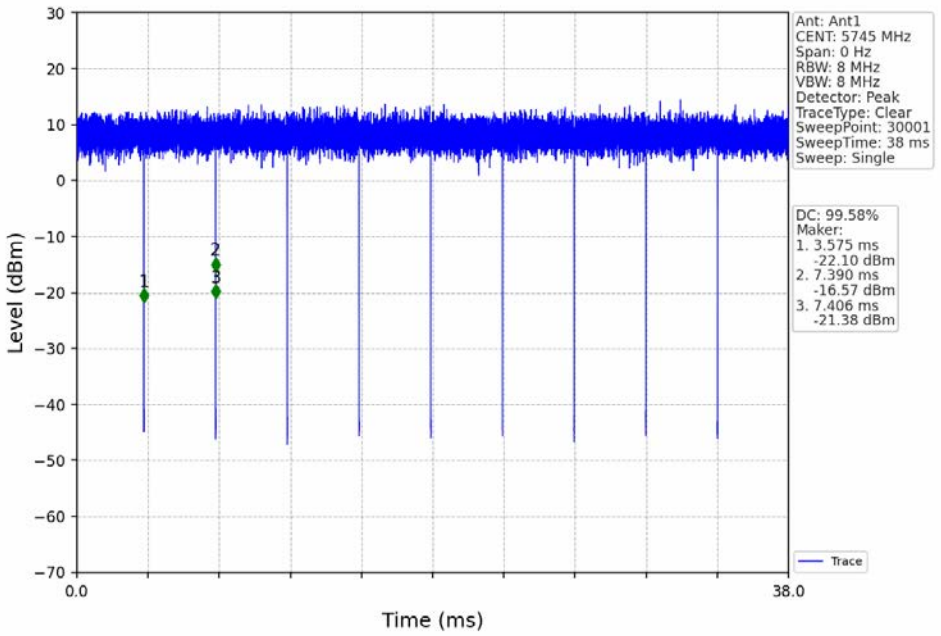
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



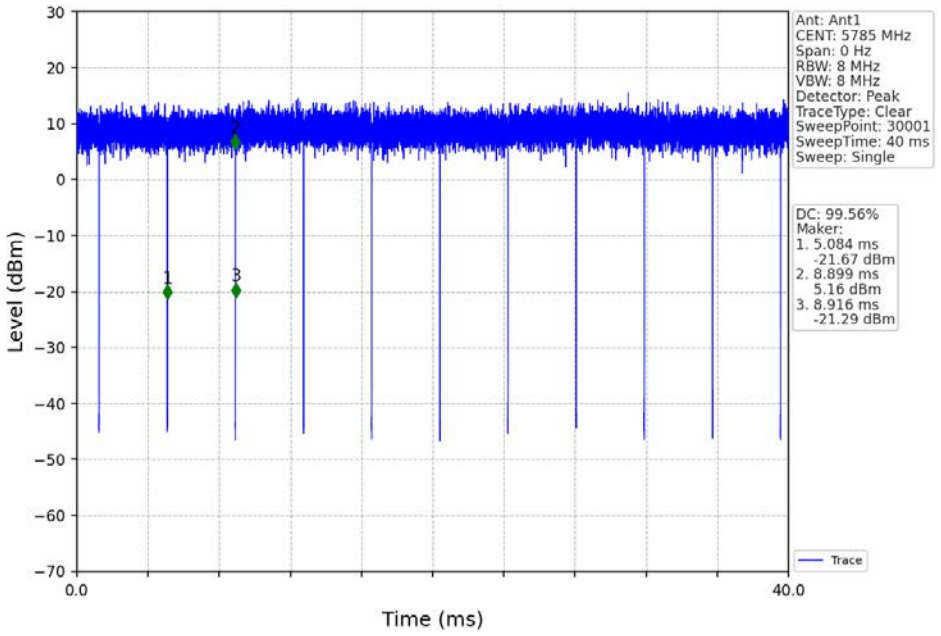
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



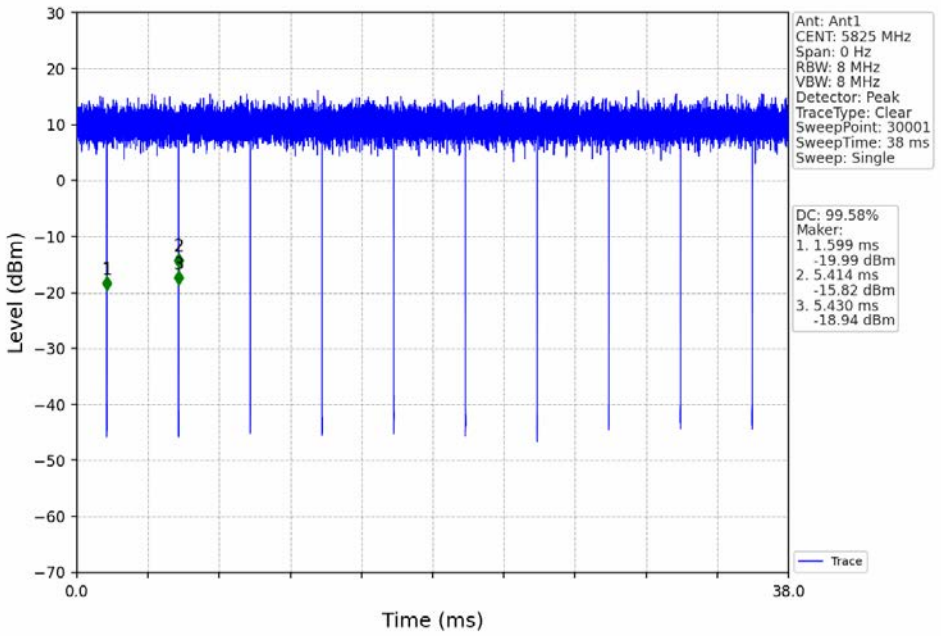
802.11ax(HEW20)_LCH_5745MHz_RU242_Left_Ant1_NTNV



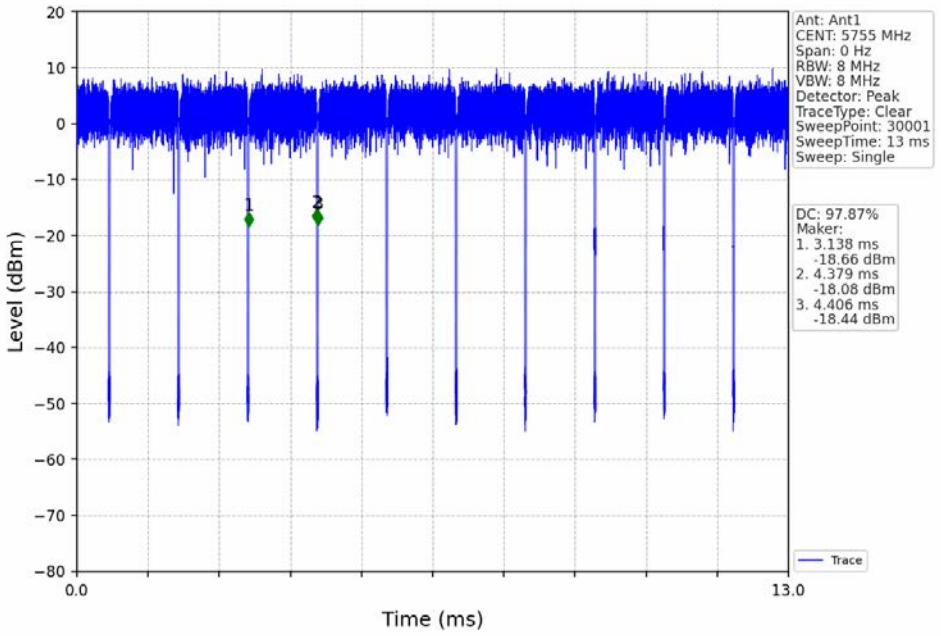
802.11ax(HEW20)_MCH_5785MHz_RU242_Left_Ant1_NTNV



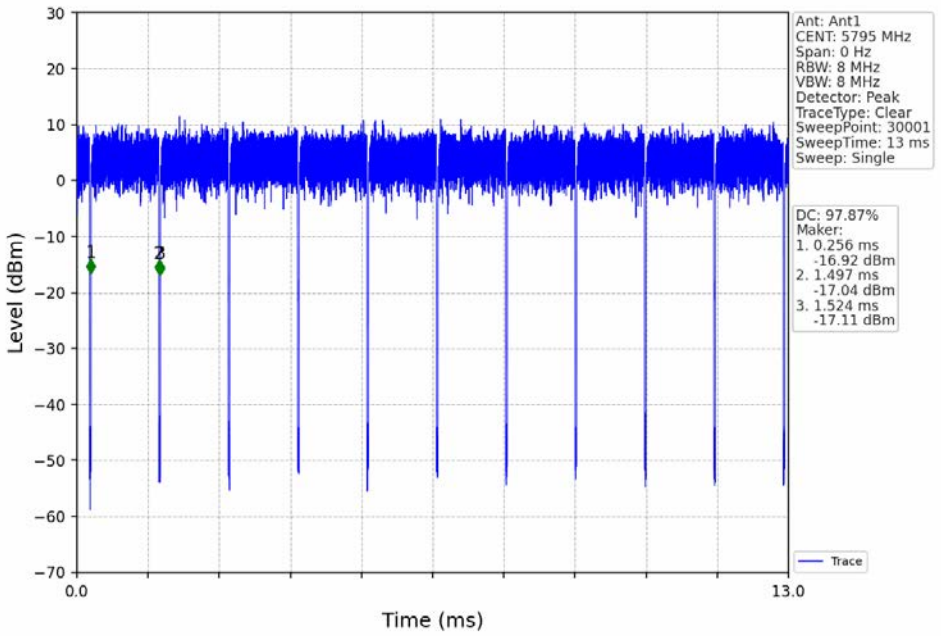
802.11ax(HEW20)_HCH_5825MHz_RU242_Left_Ant1_NTNV



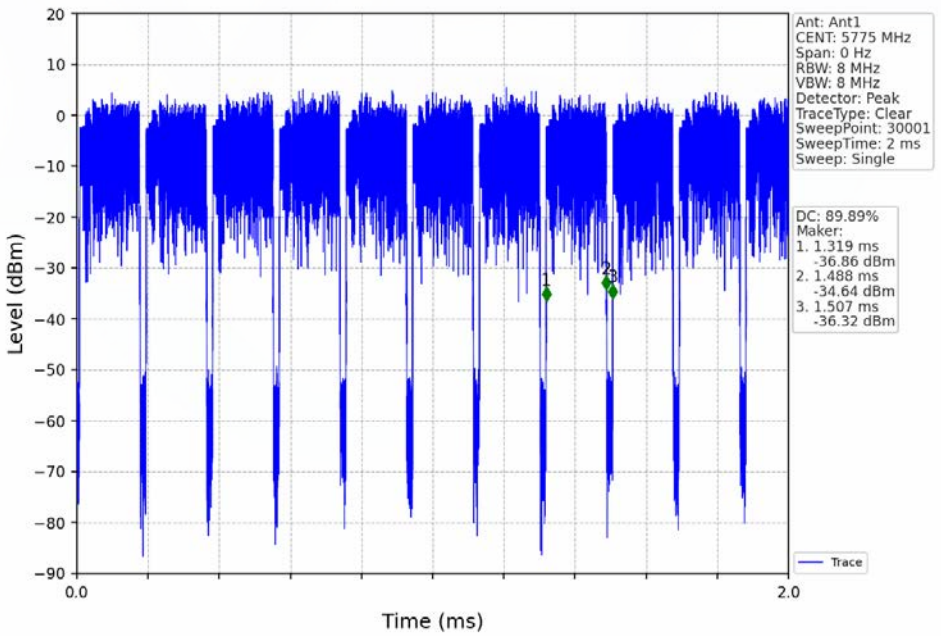
802.11ax(HEW40)_LCH_5755MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_RU996_Left_Ant1_NTNV



2. Bandwidth

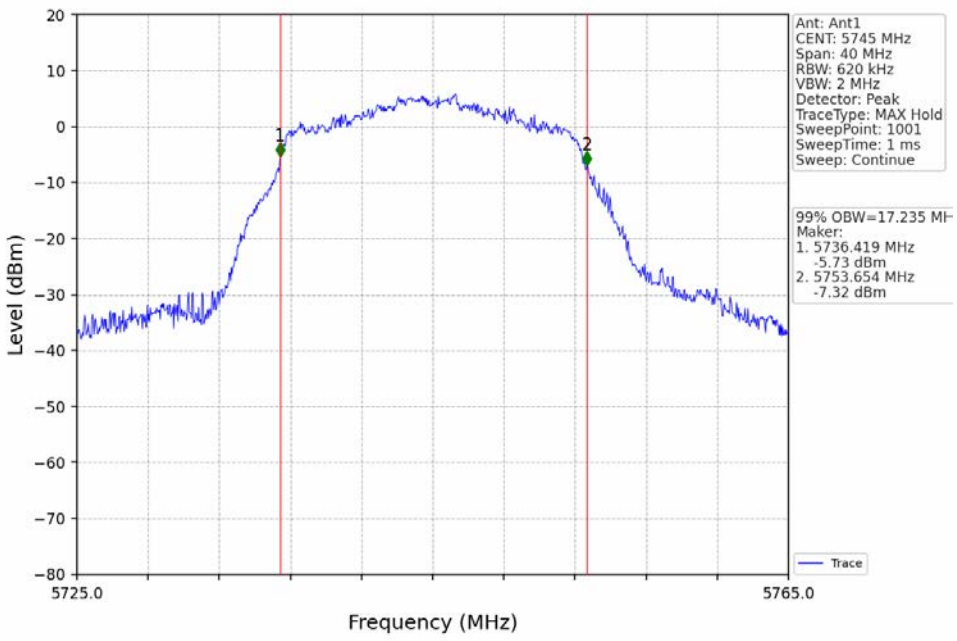
2.1 OBW

2.1.1 Test Result

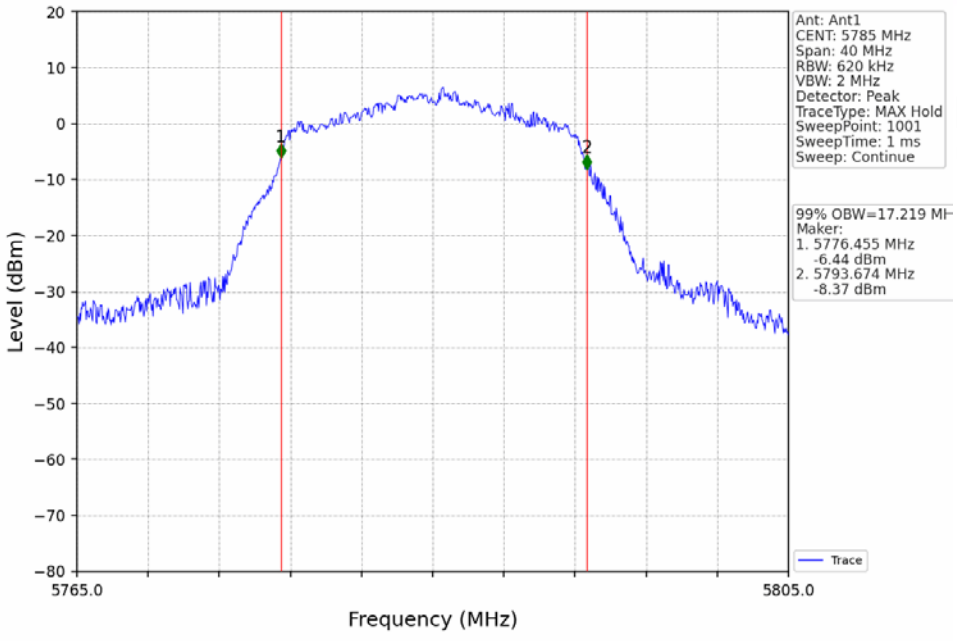
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	17.235	/	Pass
		5785	/	/	1	17.219	/	Pass
		5825	/	/	1	17.201	/	Pass
802.11n (HT20)	MIMO	5745	/	/	1	18.070	/	Pass
		5785	/	/	1	18.086	/	Pass
		5825	/	/	1	18.064	/	Pass
802.11n (HT40)	MIMO	5755	/	/	1	36.355	/	Pass
		5795	/	/	1	36.417	/	Pass
802.11ac (VHT20)	MIMO	5745	/	/	1	18.112	/	Pass
		5785	/	/	1	18.081	/	Pass
		5825	/	/	1	18.057	/	Pass
802.11ac (VHT40)	MIMO	5755	/	/	1	36.353	/	Pass
		5795	/	/	1	36.021	/	Pass
802.11ac (VHT80)	MIMO	5775	/	/	1	75.536	/	Pass
802.11ax (HEW20)	MIMO	5745	RU242	Left	1	19.132	/	Pass
		5785	RU242	Left	1	19.122	/	Pass
		5825	RU242	Left	1	19.100	/	Pass
802.11ax (HEW40)	MIMO	5755	RU484	Left	1	37.899	/	Pass
		5795	RU484	Left	1	37.889	/	Pass
802.11ax (HEW80)	MIMO	5775	RU996	Left	1	77.749	/	Pass

2.1.2 Test Graph

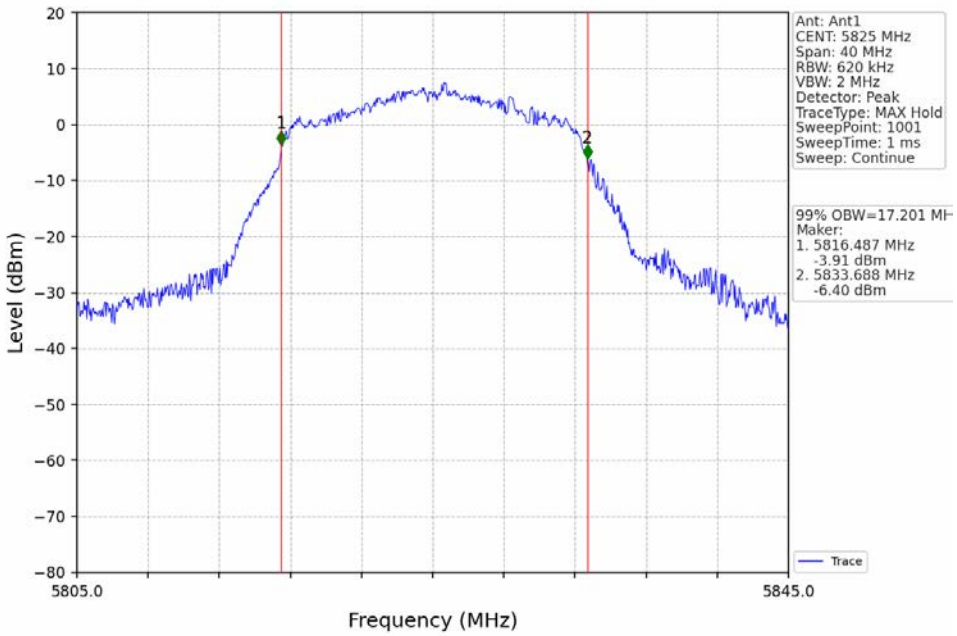
802.11a_LCH_5745MHz_Ant1_NTNV



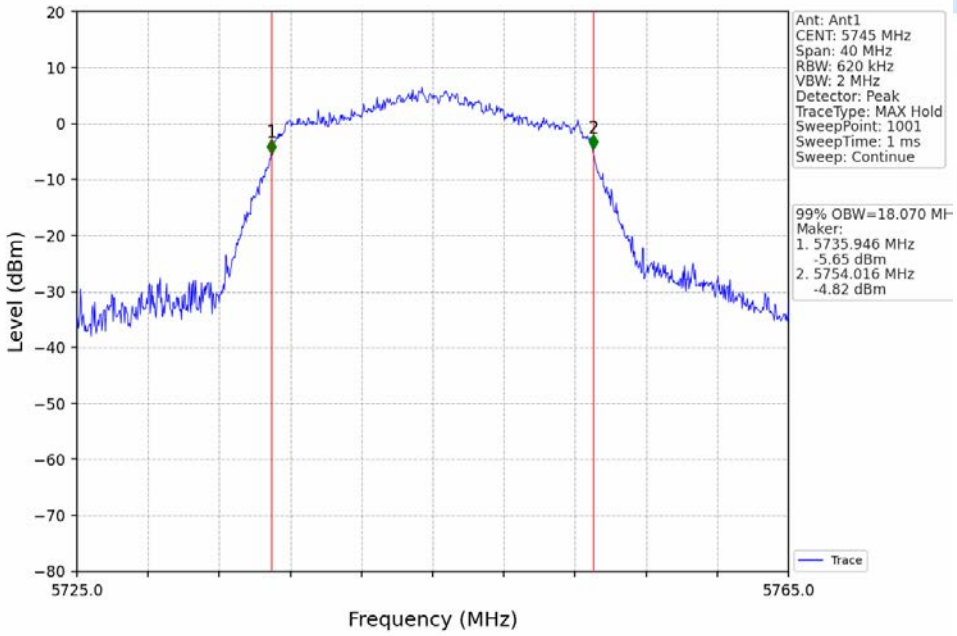
802.11a_MCH_5785MHz_Ant1_NTNV



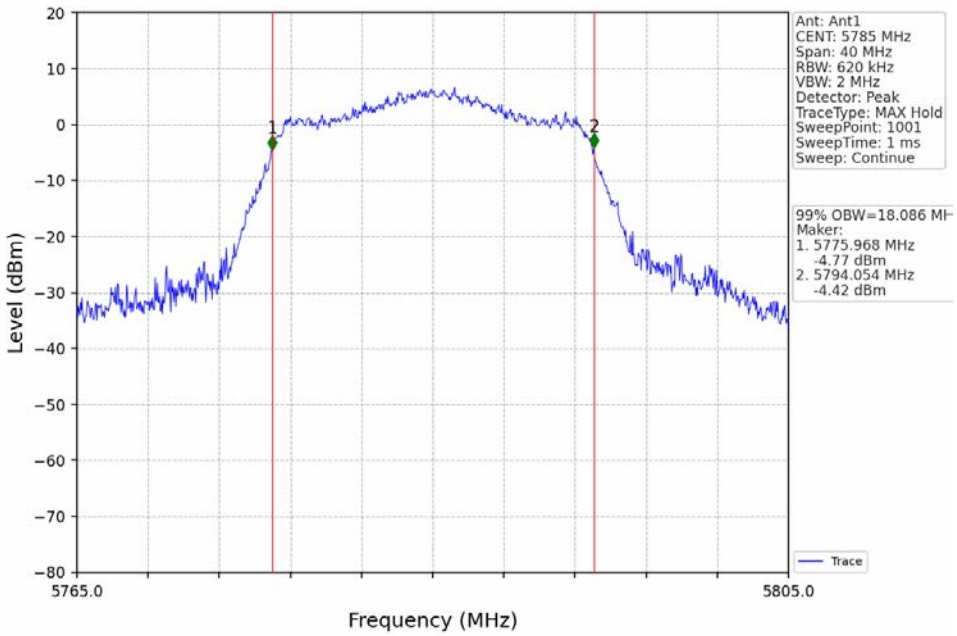
802.11a_HCH_5825MHz_Ant1_NTNV



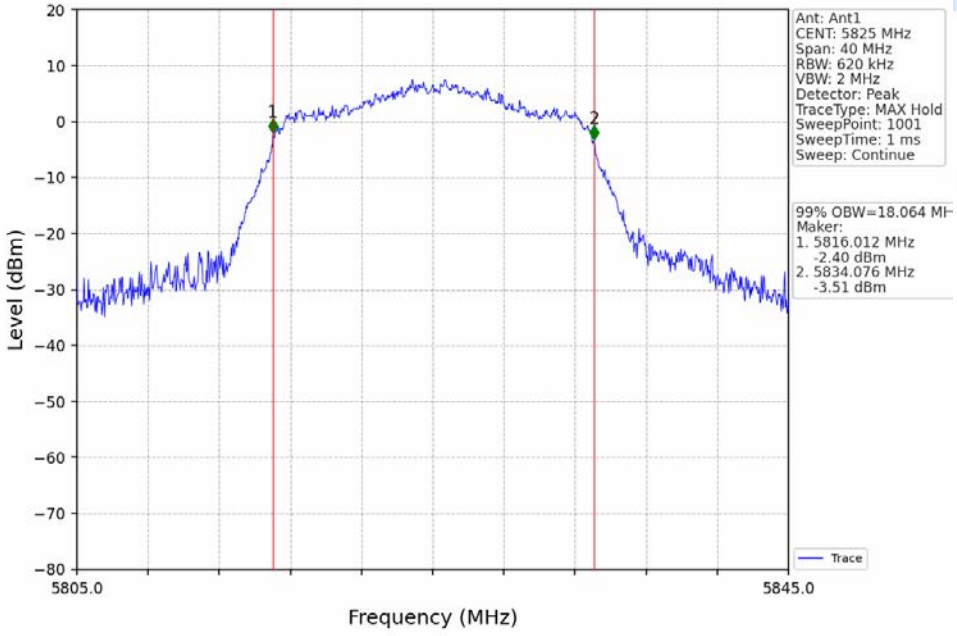
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



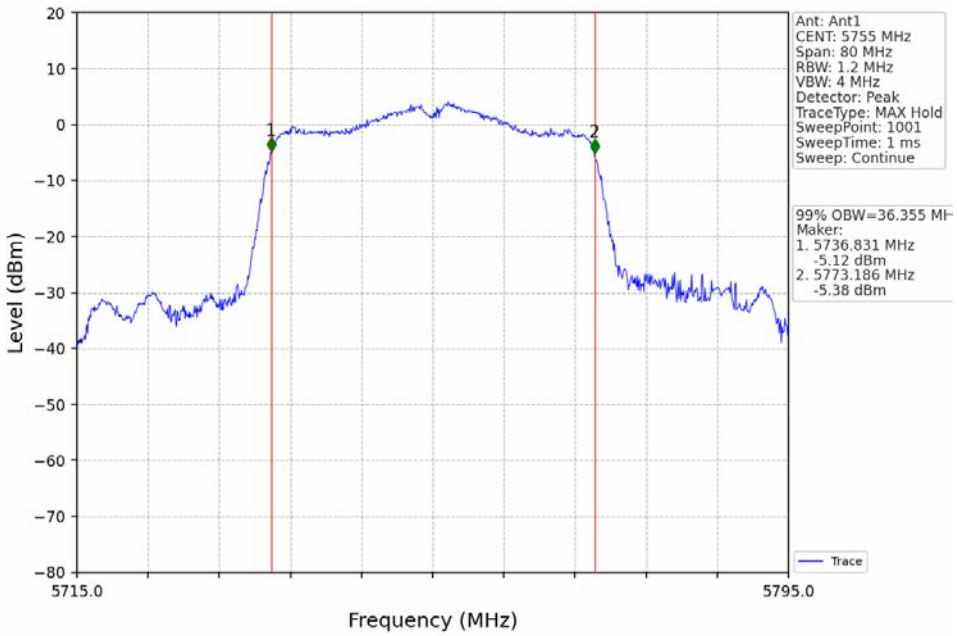
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



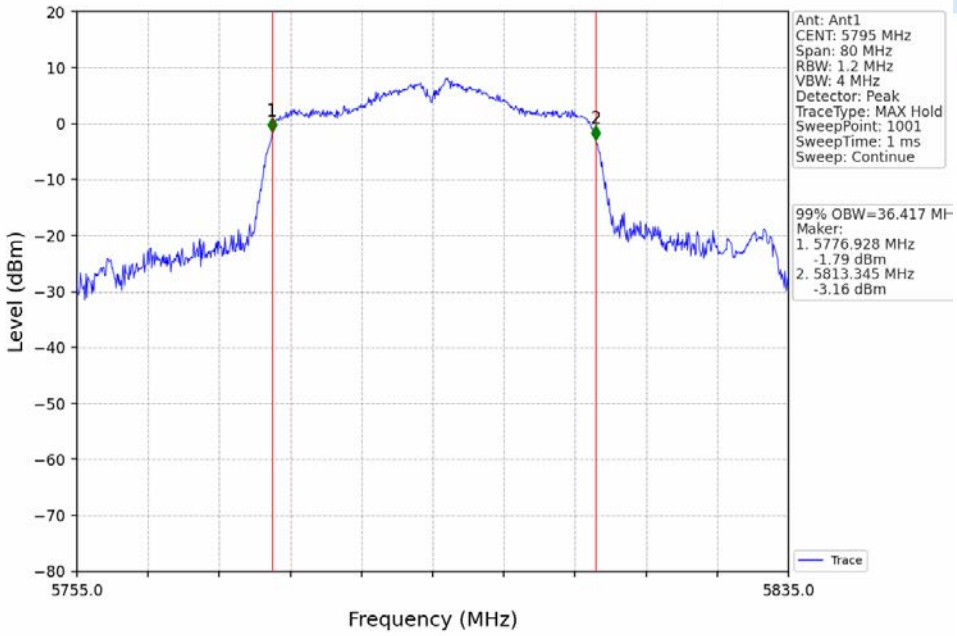
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



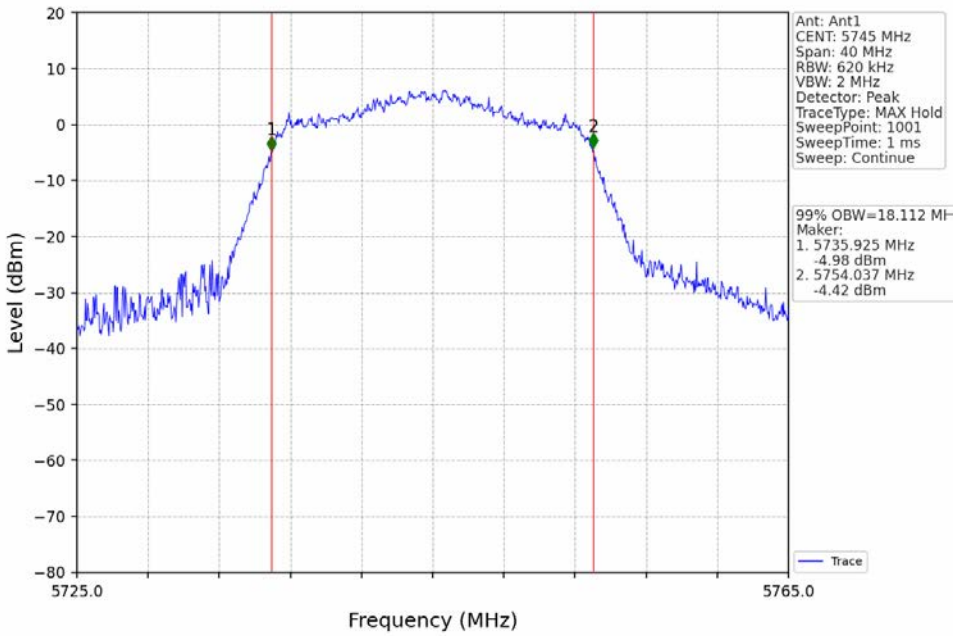
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



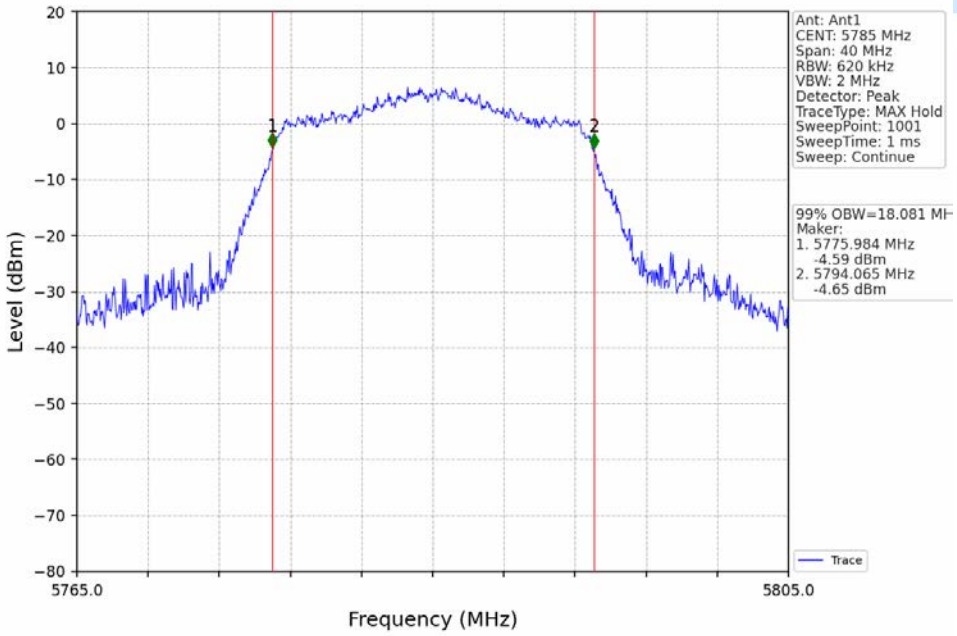
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



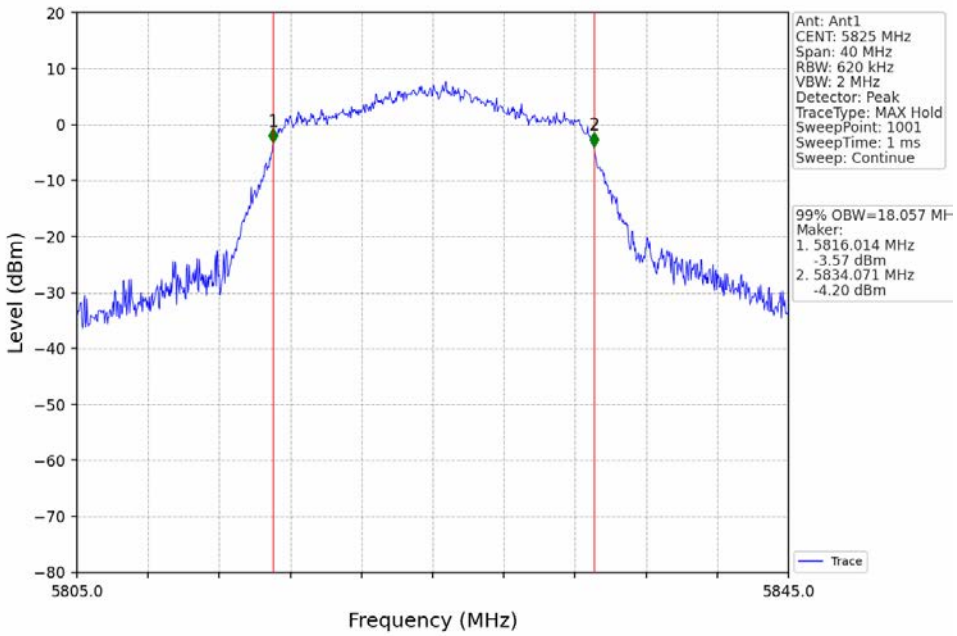
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



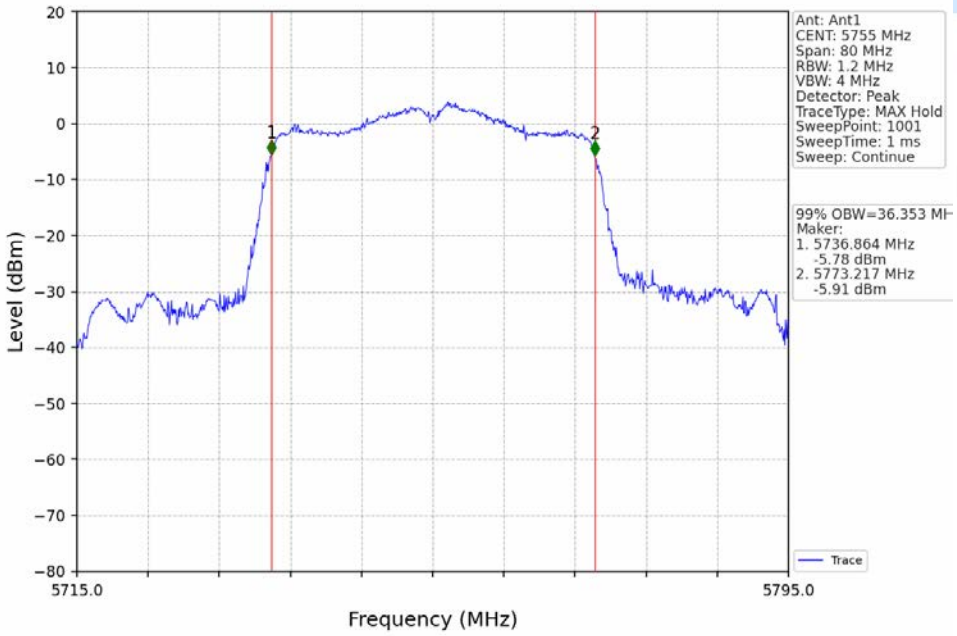
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



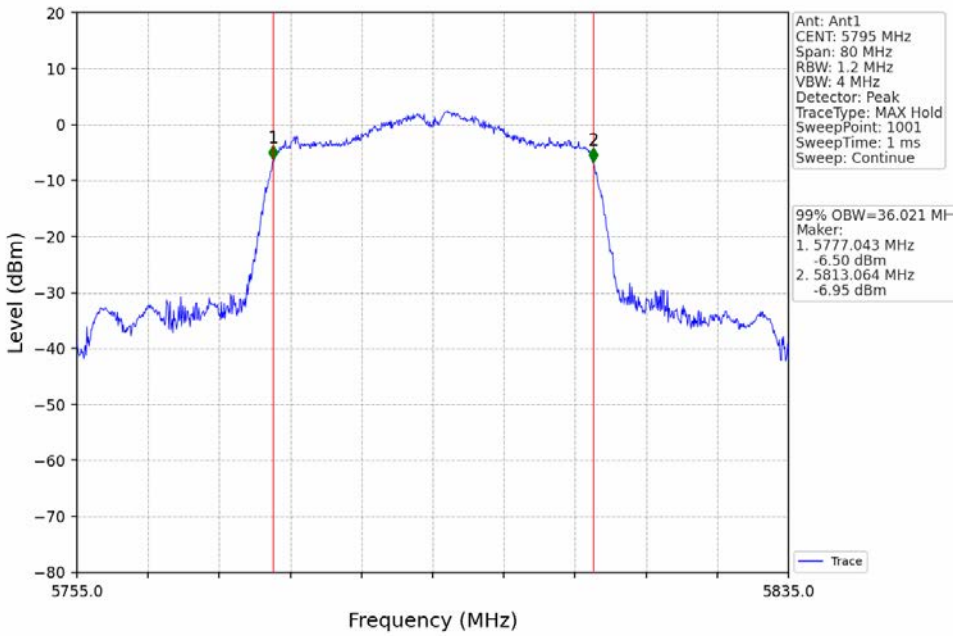
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



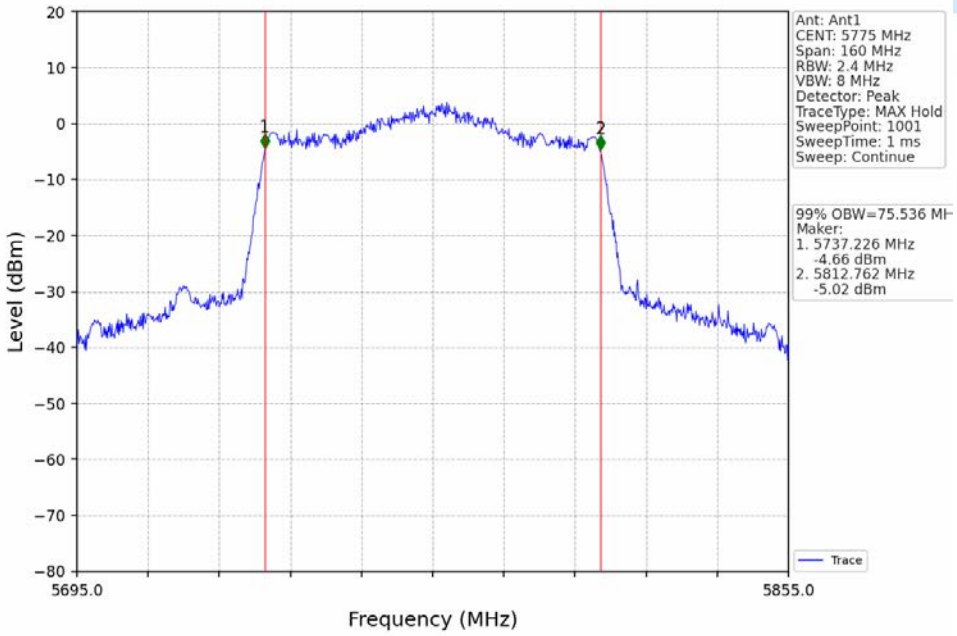
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



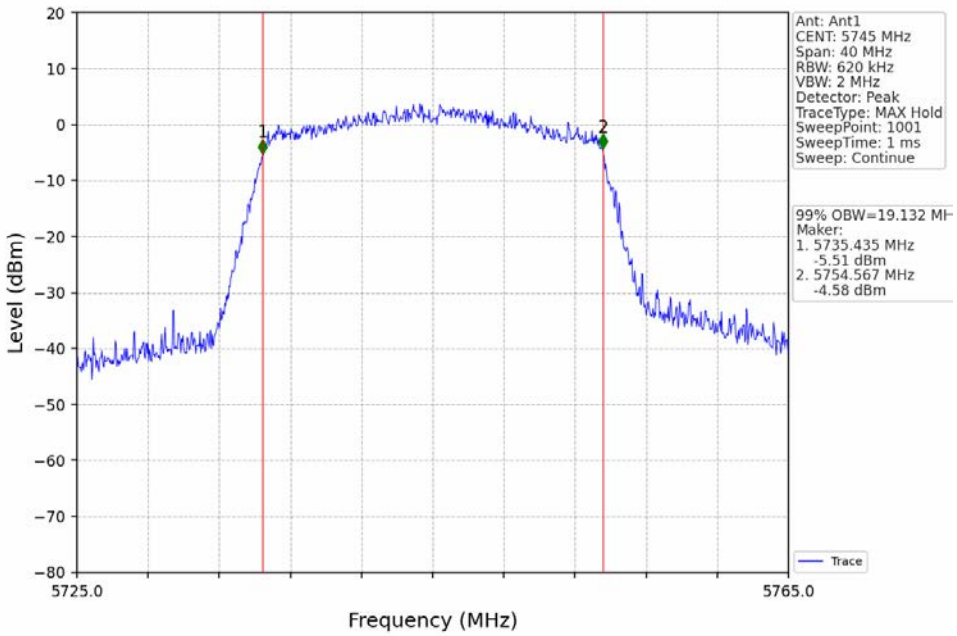
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



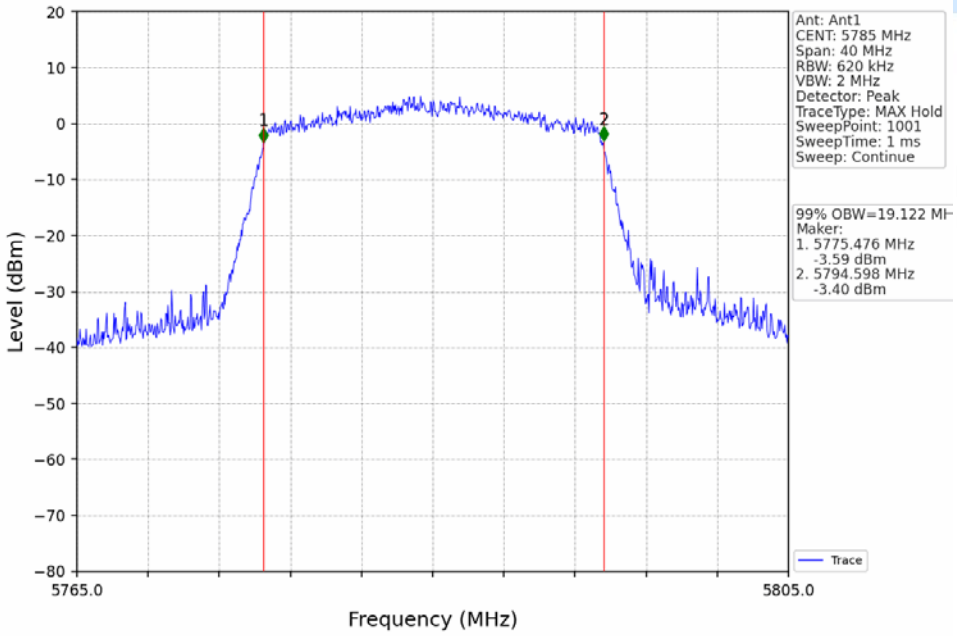
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



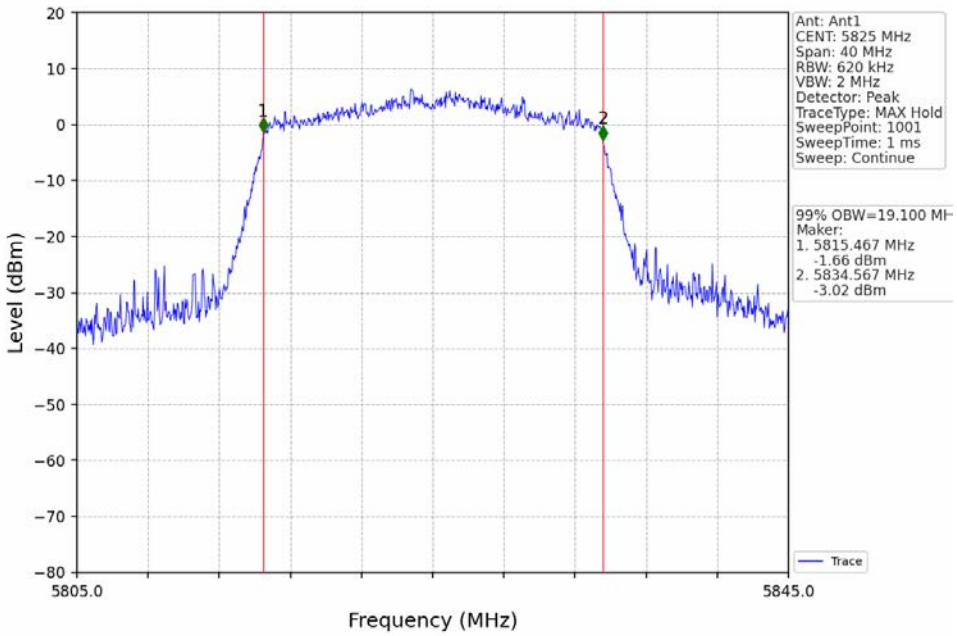
802.11ax(HEW20)_LCH_5745MHz_RU242_Left_Ant1_NTNV



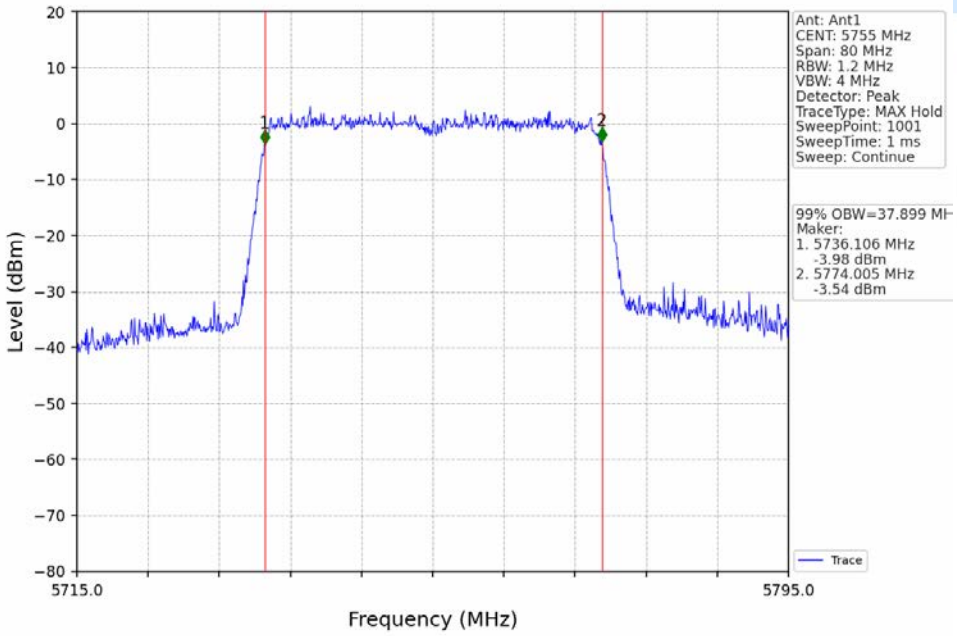
802.11ax(HEW20)_MCH_5785MHz_RU242_Left_Ant1_NTNV



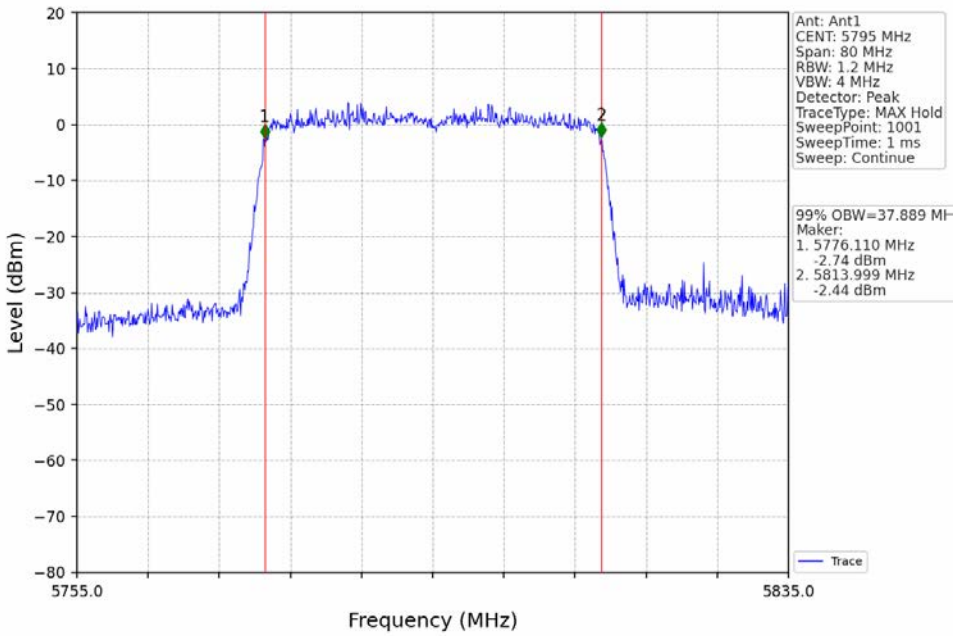
802.11ax(HEW20)_HCH_5825MHz_RU242_Left_Ant1_NTNV



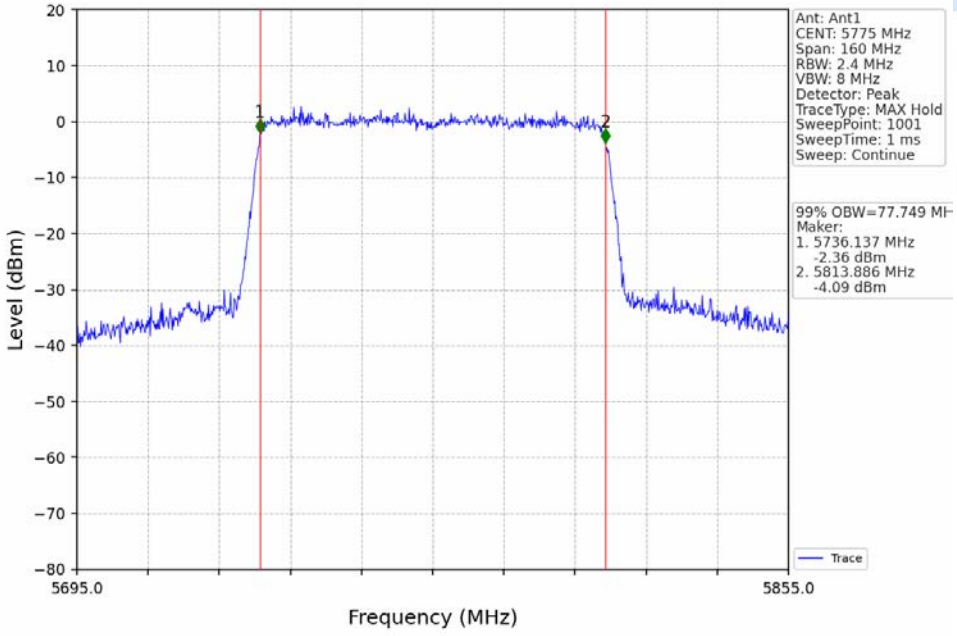
802.11ax(HEW40)_LCH_5755MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_RU996_Left_Ant1_NTNV



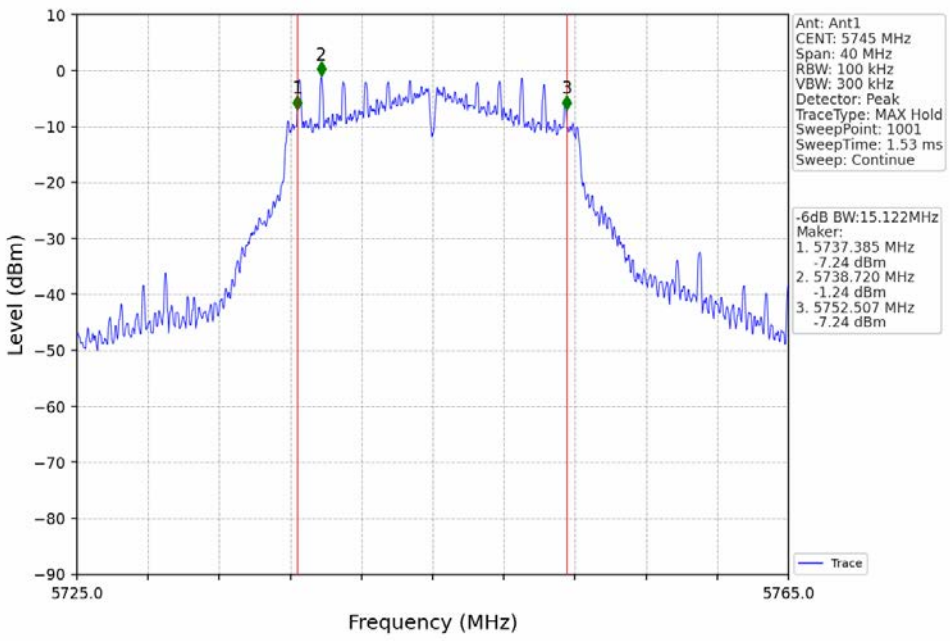
2.2 6dB BW

2.2.1 Test Result

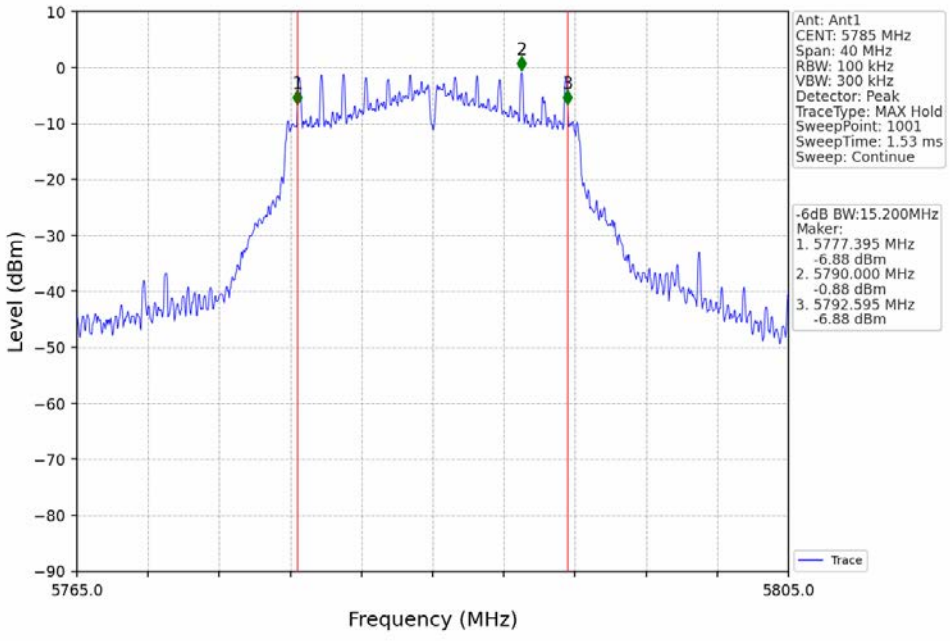
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	15.122	>=0.5	Pass
		5785	/	/	1	15.200	>=0.5	Pass
		5825	/	/	1	15.194	>=0.5	Pass
802.11n (HT20)	MIMO	5745	/	/	1	15.219	>=0.5	Pass
		5785	/	/	1	15.228	>=0.5	Pass
		5825	/	/	1	15.213	>=0.5	Pass
802.11n (HT40)	MIMO	5755	/	/	1	35.234	>=0.5	Pass
		5795	/	/	1	35.180	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	/	/	1	15.253	>=0.5	Pass
		5785	/	/	1	15.237	>=0.5	Pass
		5825	/	/	1	15.240	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	/	/	1	35.255	>=0.5	Pass
		5795	/	/	1	35.183	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	/	/	1	75.211	>=0.5	Pass
802.11ax (HEW20)	MIMO	5745	RU242	Left	1	17.737	>=0.5	Pass
		5785	RU242	Left	1	17.410	>=0.5	Pass
		5825	RU242	Left	1	18.825	>=0.5	Pass
802.11ax (HEW40)	MIMO	5755	RU484	Left	1	37.252	>=0.5	Pass
		5795	RU484	Left	1	36.482	>=0.5	Pass
802.11ax (HEW80)	MIMO	5775	RU996	Left	1	77.312	>=0.5	Pass

2.2.2 Test Graph

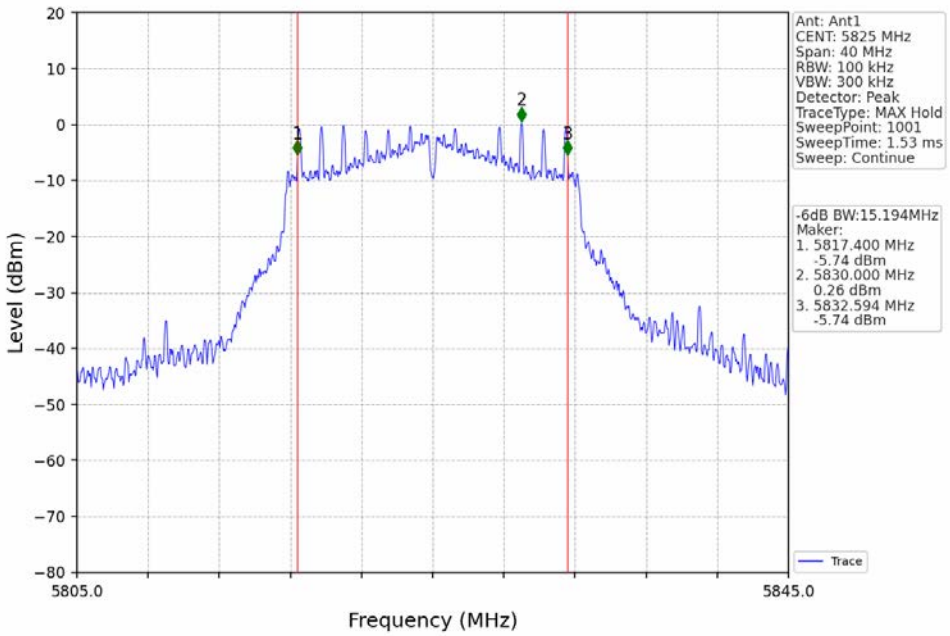
802.11a_LCH_5745MHz_Ant1_NTNV



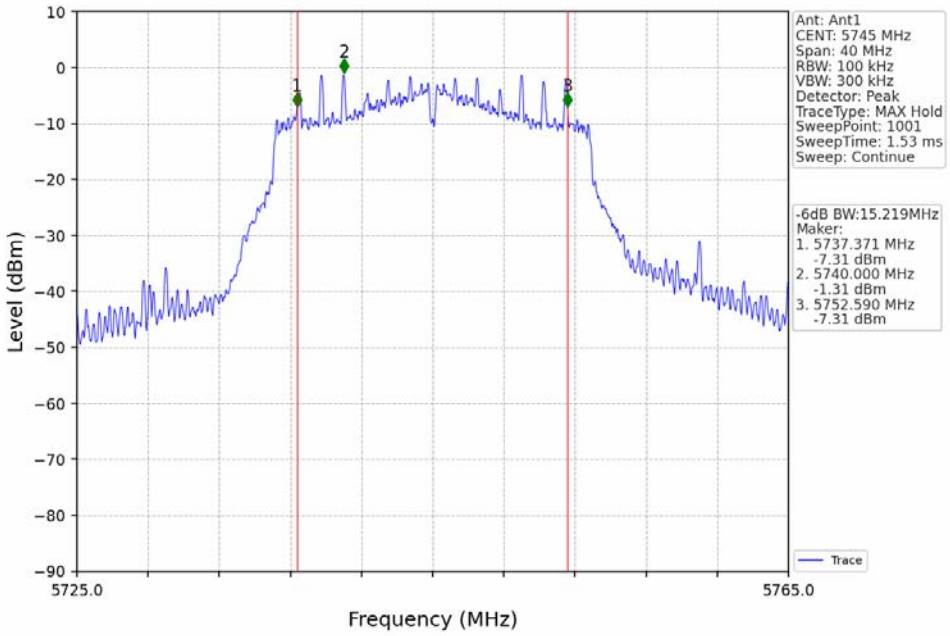
802.11a_MCH_5785MHz_Ant1_NTNV



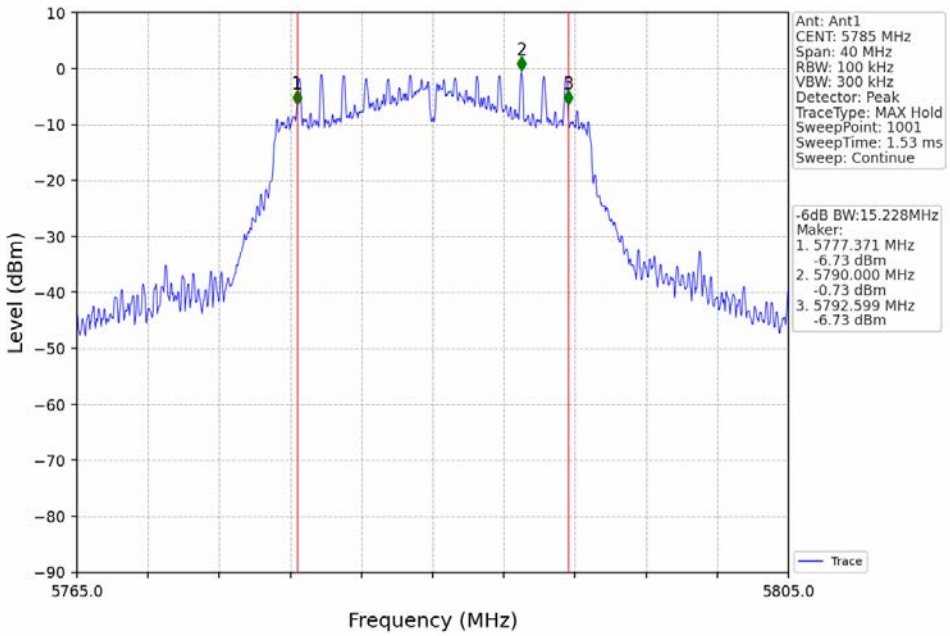
802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



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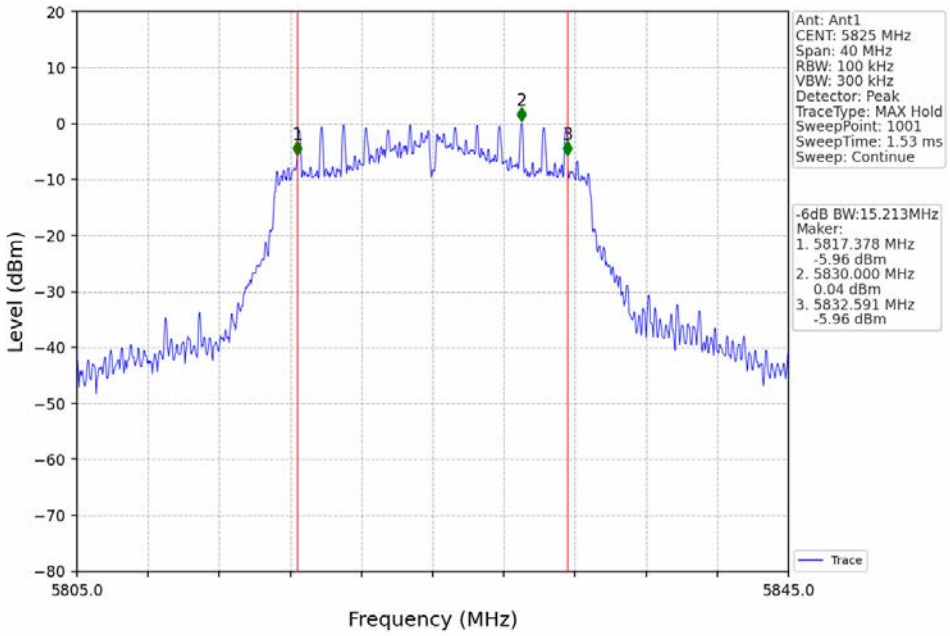
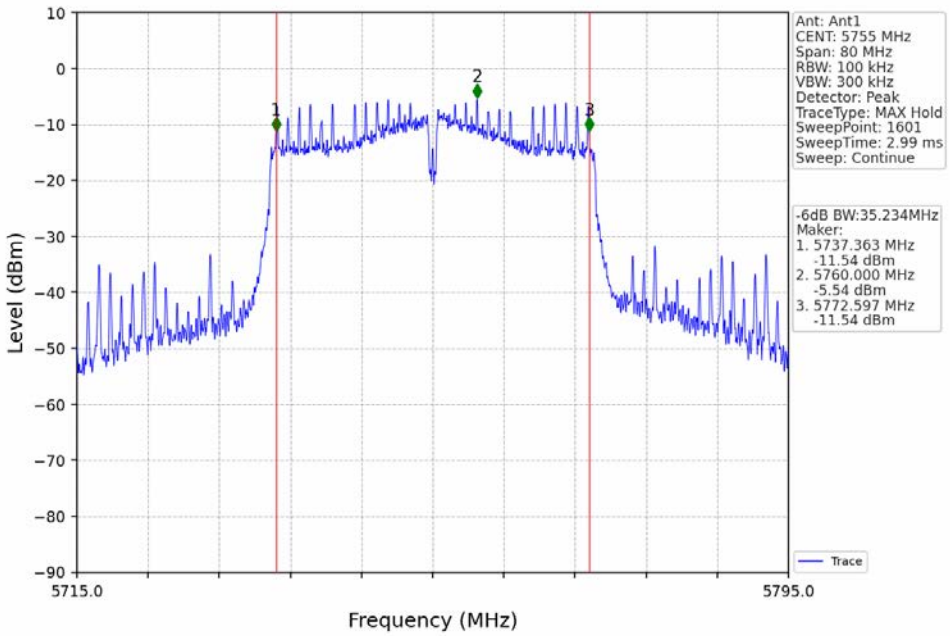
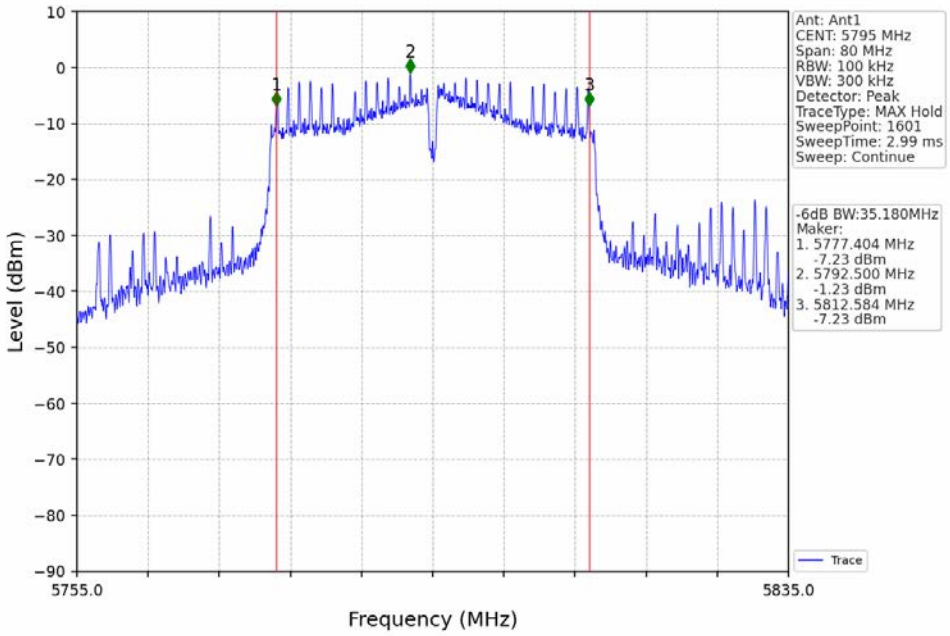


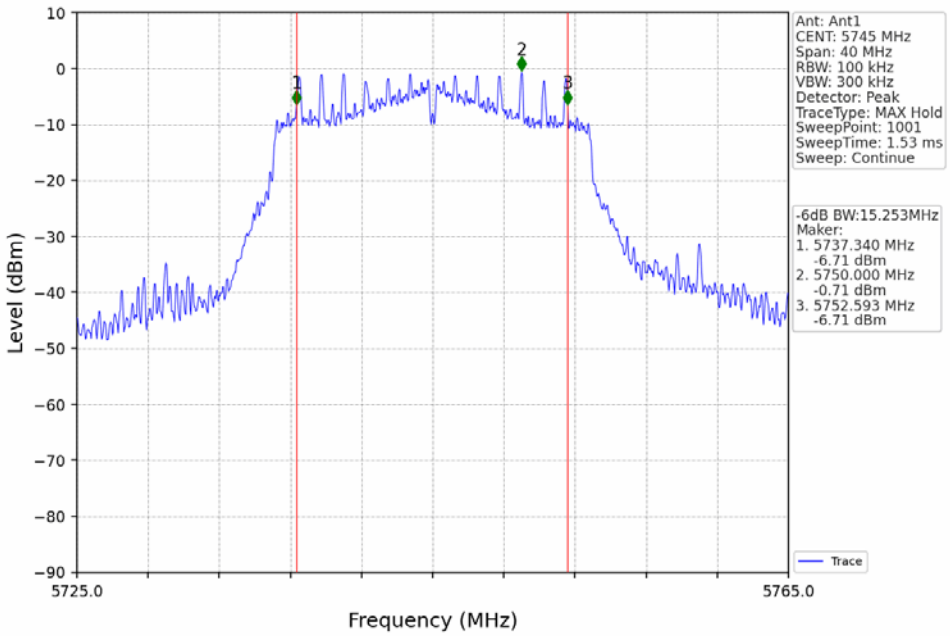
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



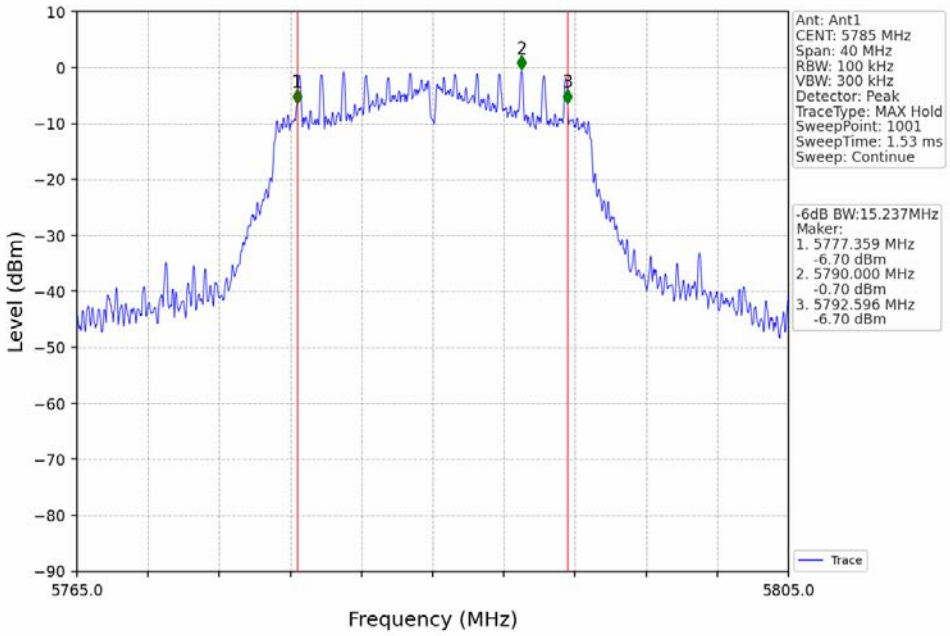
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



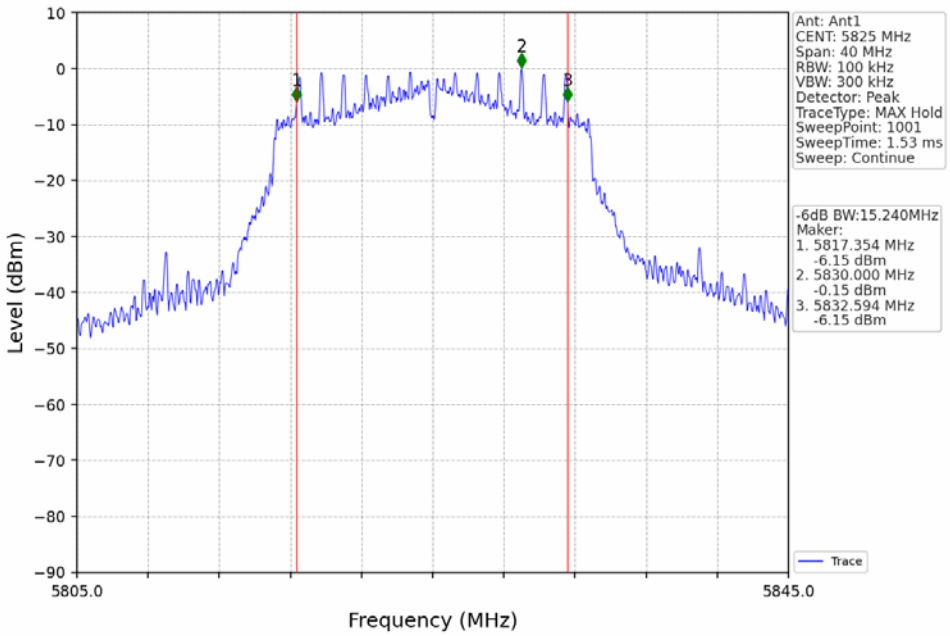
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



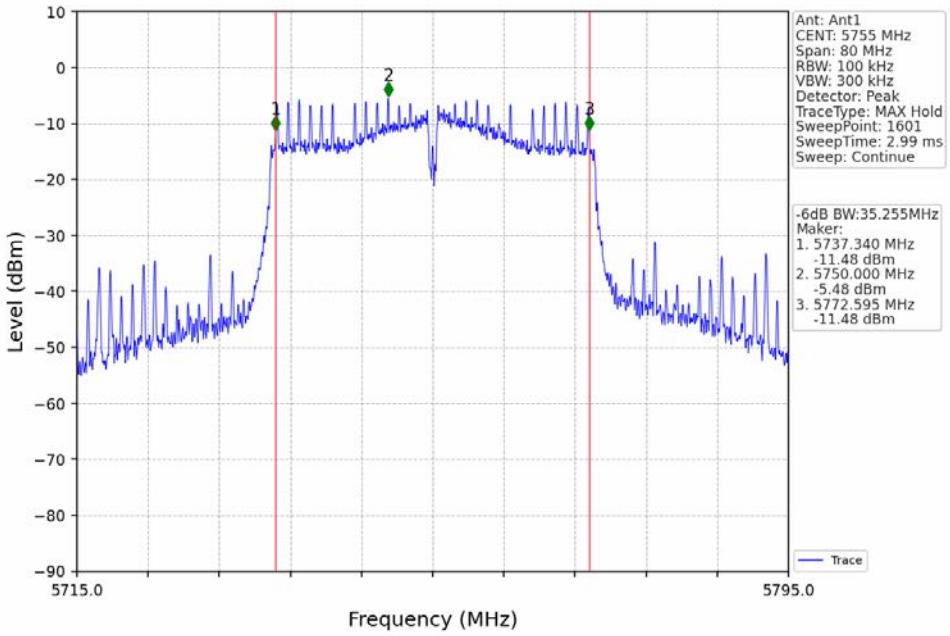
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



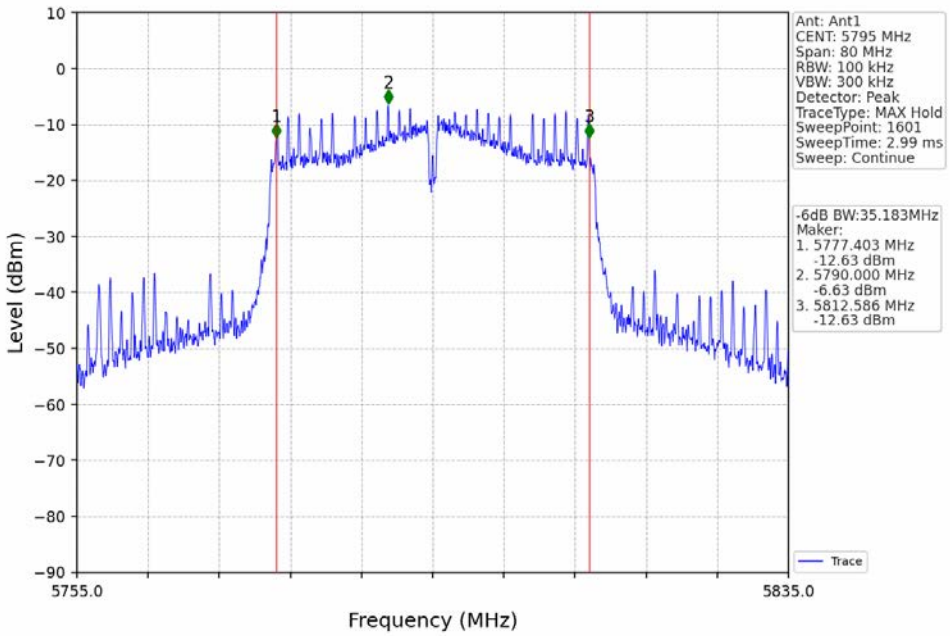
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



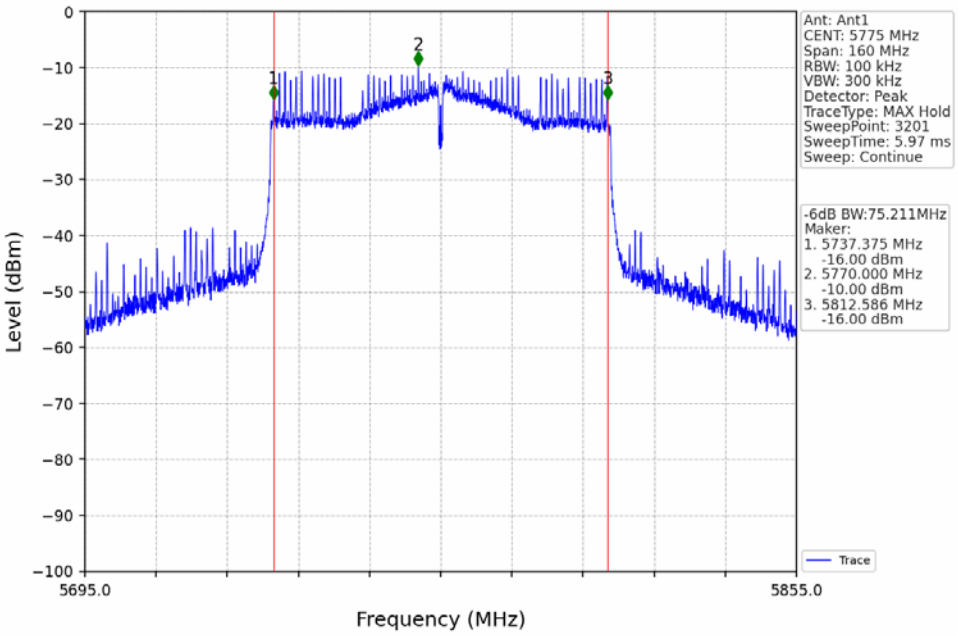
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



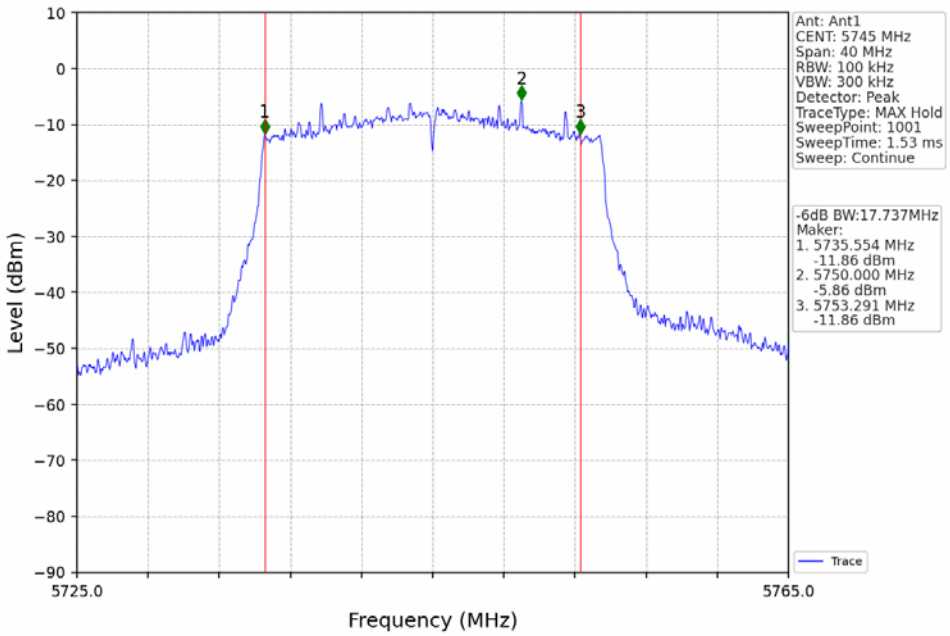
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



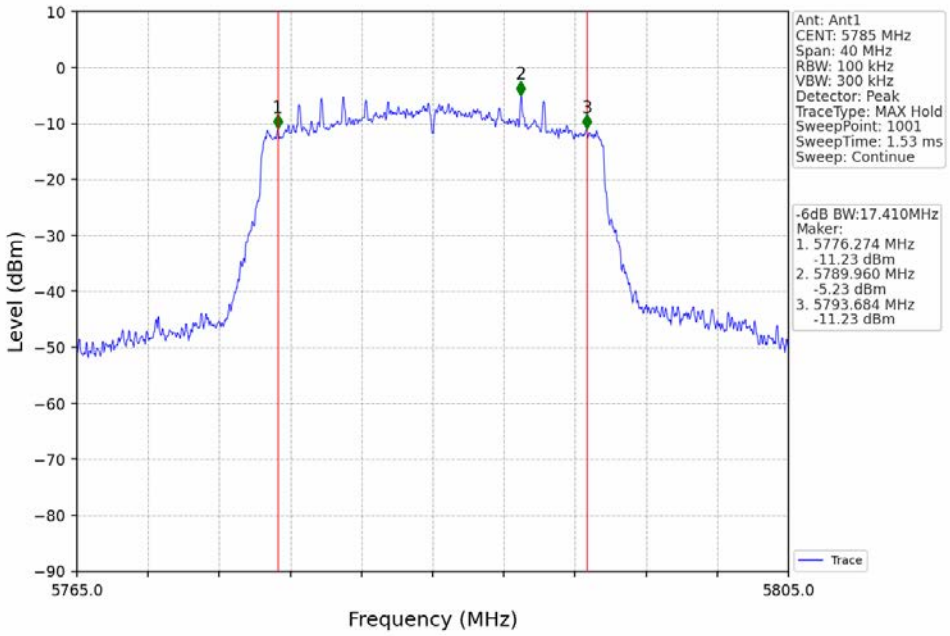
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



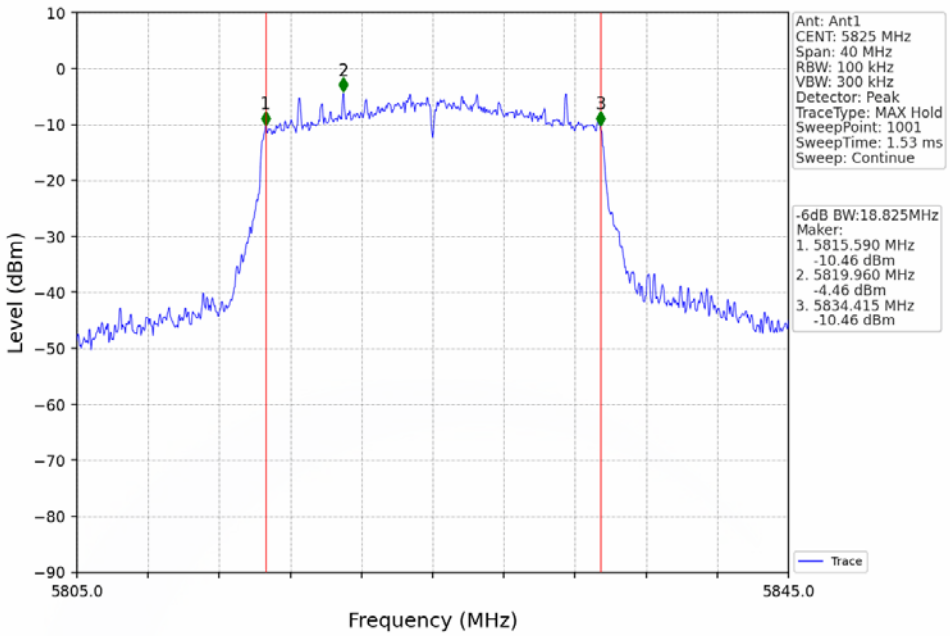
802.11ax(HEW20)_LCH_5745MHz_RU242_Left_Ant1_NTNV



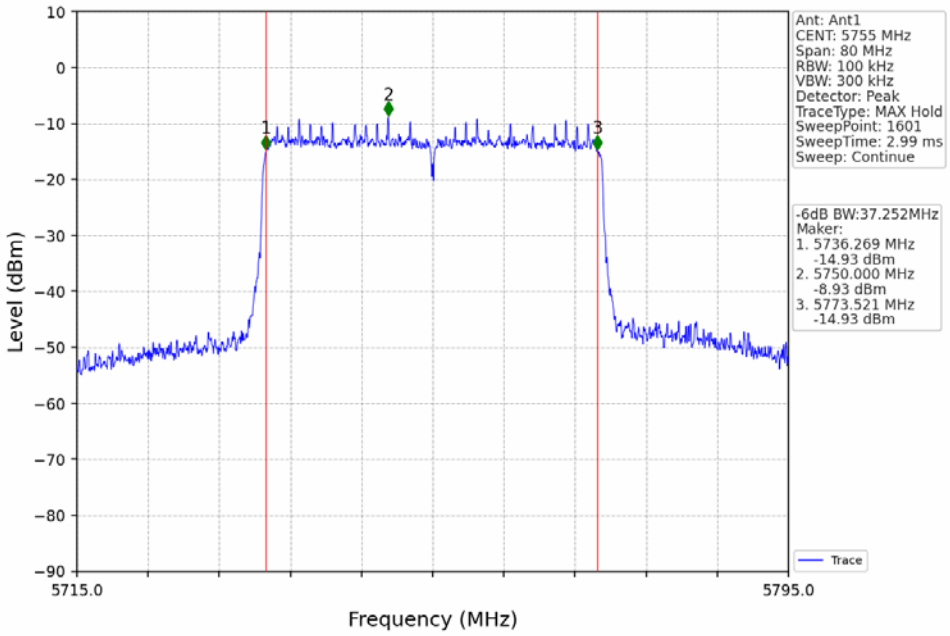
802.11ax(HEW20)_MCH_5785MHz_RU242_Left_Ant1_NTNV



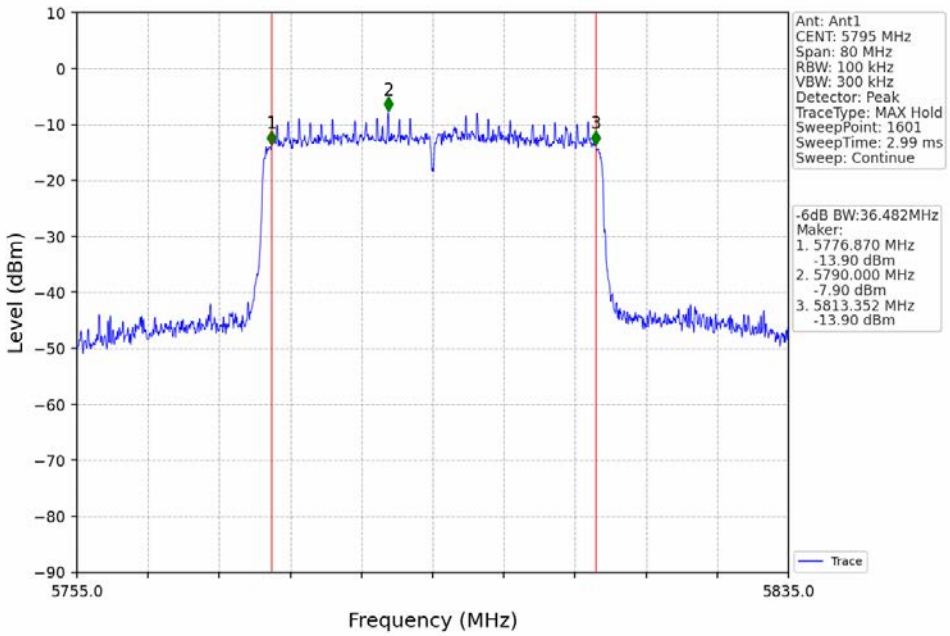
802.11ax(HEW20)_HCH_5825MHz_RU242_Left_Ant1_NTNV



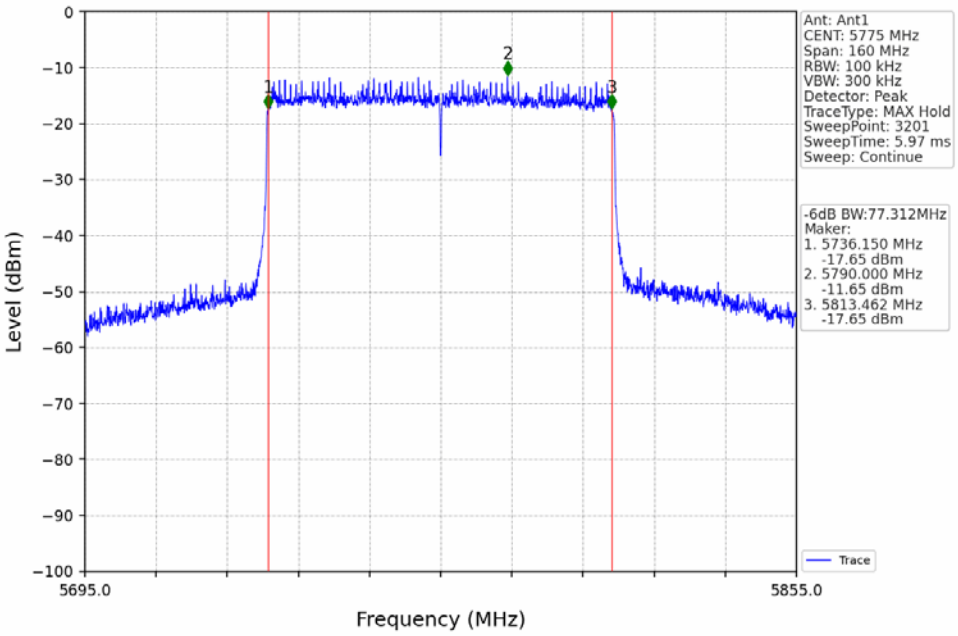
802.11ax(HEW40)_LCH_5755MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_RU996_Left_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5745	/	/	8.26	8.89	/	<=30	Pass
		5785	/	/	8.20	9.16	/	<=30	Pass
		5825	/	/	9.20	8.77	/	<=30	Pass
802.11n (HT20)	MIMO	5745	/	/	7.81	8.65	11.26	<=30	Pass
		5785	/	/	8.21	8.83	11.54	<=30	Pass
		5825	/	/	9.07	8.60	11.85	<=30	Pass
802.11n (HT40)	MIMO	5755	/	/	6.09	7.63	9.94	<=30	Pass
		5795	/	/	9.55	7.75	11.75	<=30	Pass
802.11ac (VHT20)	MIMO	5745	/	/	8.25	9.13	11.72	<=30	Pass
		5785	/	/	8.32	8.91	11.64	<=30	Pass
		5825	/	/	8.79	8.38	11.60	<=30	Pass
802.11ac (VHT40)	MIMO	5755	/	/	6.11	7.59	9.92	<=30	Pass
		5795	/	/	4.54	7.45	9.24	<=30	Pass
802.11ac (VHT80)	MIMO	5775	/	/	4.11	7.02	8.81	<=30	Pass
802.11ax (HEW20)	MIMO	5745	RU242	Left	5.62	9.04	10.67	<=30	Pass
		5785	RU242	Left	6.35	9.08	10.94	<=30	Pass
		5825	RU242	Left	7.34	8.58	11.01	<=30	Pass
802.11ax (HEW40)	MIMO	5755	RU484	Left	5.10	8.61	10.21	<=30	Pass
		5795	RU484	Left	6.19	8.37	10.43	<=30	Pass
802.11ax (HEW80)	MIMO	5775	RU996	Left	5.36	8.33	10.10	<=30	Pass
Note1: Antenna Gain: Ant1: 1.30dBi; Ant2: 1.99dBi; Note2: Directional Gain: 4.66dBi									

4. Maximum Power Spectral Density

4.1 PSD-Band3

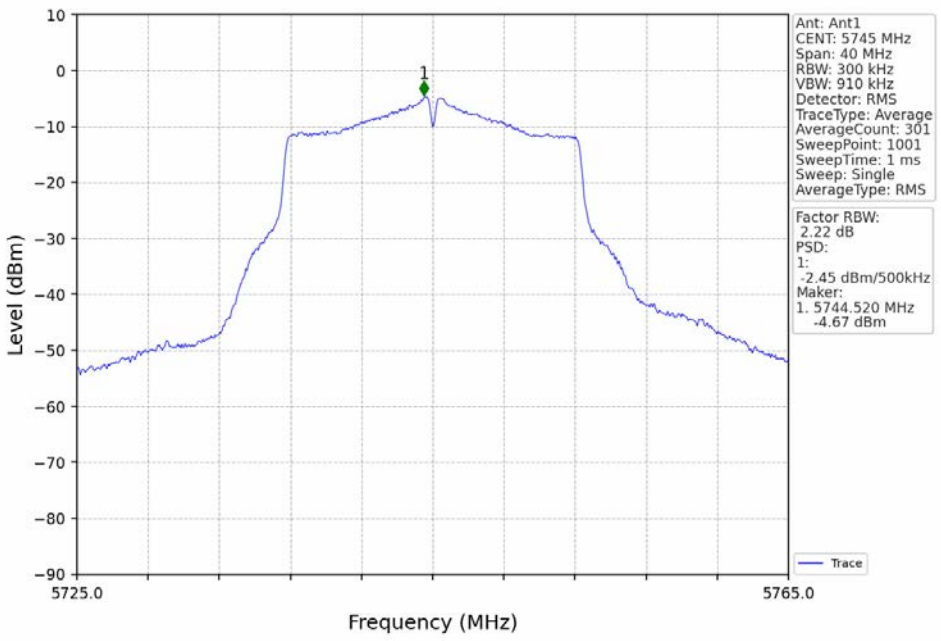
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5745	/	/	-2.45	-1.90	/	<=30	Pass
		5785	/	/	-2.32	-1.51	/	<=30	Pass
		5825	/	/	-1.42	-1.95	/	<=30	Pass
802.11n (HT20)	MIMO	5745	/	/	-3.03	-2.27	0.38	<=30	Pass
		5785	/	/	-2.59	-2.20	0.54	<=30	Pass
		5825	/	/	-1.79	-2.16	1.00	<=30	Pass
802.11n (HT40)	MIMO	5755	/	/	-7.94	-6.19	-3.99	<=30	Pass
		5795	/	/	-4.06	-5.74	-1.91	<=30	Pass
802.11ac (VHT20)	MIMO	5745	/	/	-2.74	-1.66	0.83	<=30	Pass
		5785	/	/	-2.42	-1.87	0.83	<=30	Pass
		5825	/	/	-2.22	-2.49	0.61	<=30	Pass
802.11ac (VHT40)	MIMO	5755	/	/	-7.78	-6.25	-4.06	<=30	Pass
		5795	/	/	-9.17	-6.18	-4.47	<=30	Pass
802.11ac (VHT80)	MIMO	5775	/	/	-12.59	-9.77	-7.99	<=30	Pass
802.11ax (HEW20)	MIMO	5745	RU242	Left	-7.17	-4.00	-2.42	<=30	Pass
		5785	RU242	Left	-6.34	-3.77	-2.01	<=30	Pass
		5825	RU242	Left	-5.66	-4.22	-2.05	<=30	Pass
802.11ax (HEW40)	MIMO	5755	RU484	Left	-12.39	-9.17	-7.67	<=30	Pass
		5795	RU484	Left	-11.17	-9.09	-7.03	<=30	Pass
802.11ax (HEW80)	MIMO	5775	RU996	Left	-14.79	-11.67	-10.05	<=30	Pass

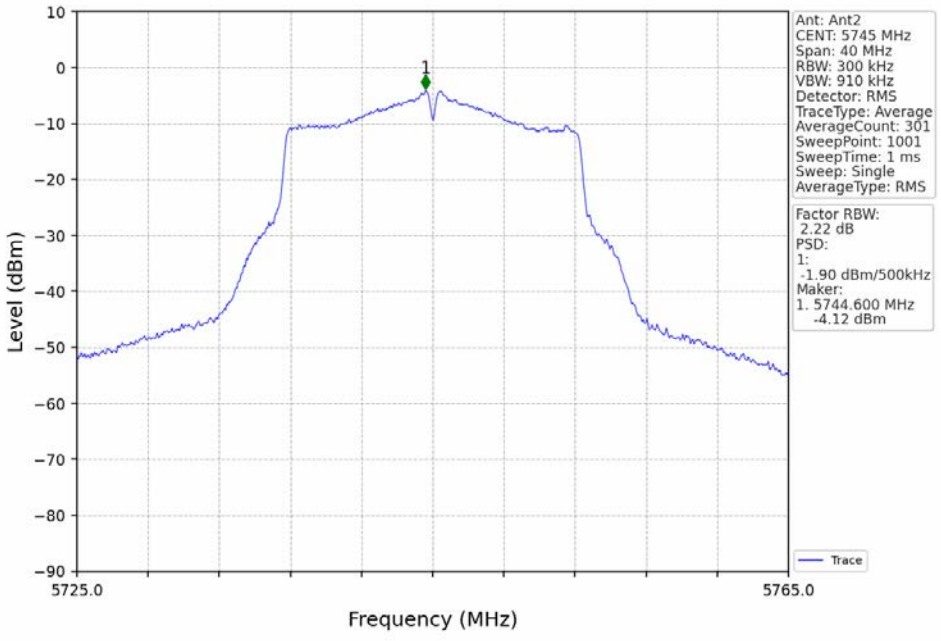
Note1: Antenna Gain: Ant1: 1.30dBi; Ant2: 1.99dBi;
Note2: Directional Gain: 4.66dBi
Note3: Test result contains DCCF and RBW Factor
RBW Factor = 10*log(500kHz/300kHz)=2.22

4.1.2 Test Graph

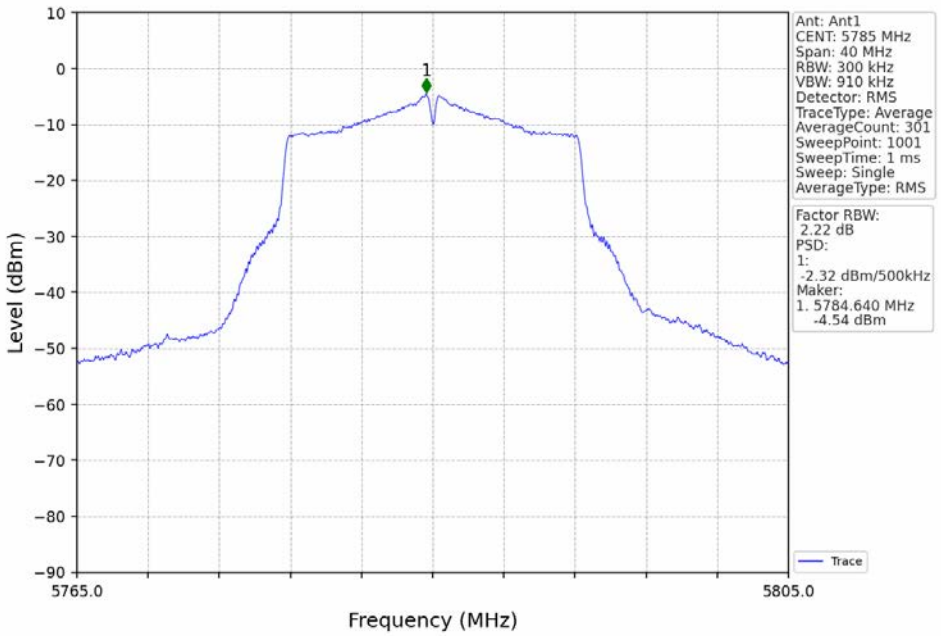
802.11a_LCH_5745MHz_Ant1_NTNV



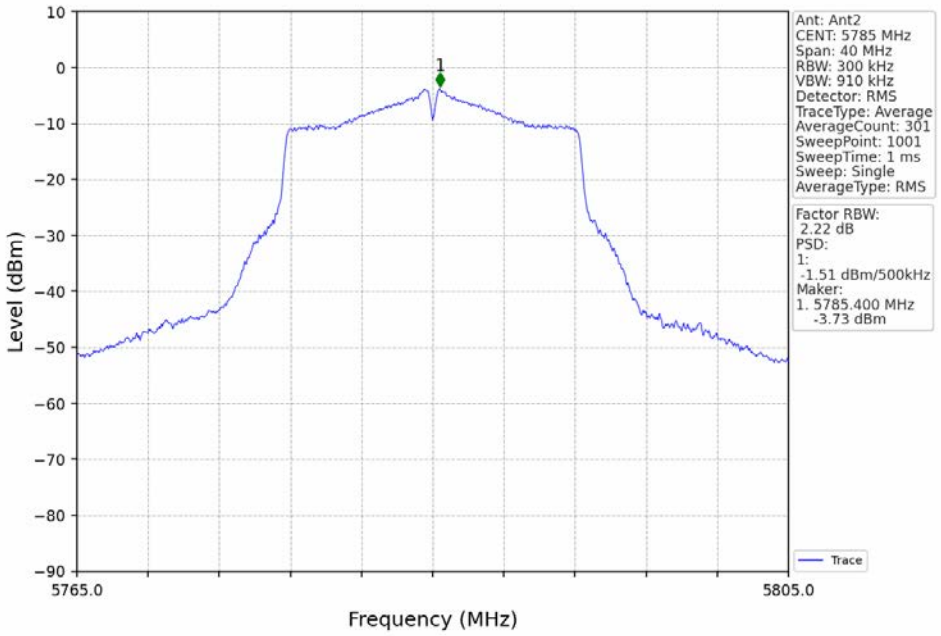
802.11a_LCH_5745MHz_Ant2_NTNV



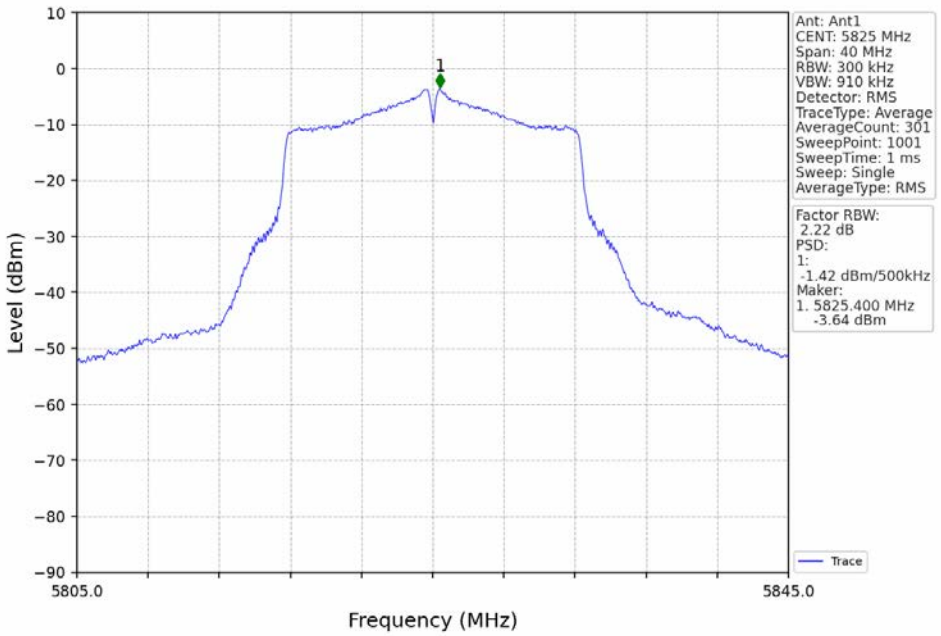
802.11a_MCH_5785MHz_Ant1_NTNV



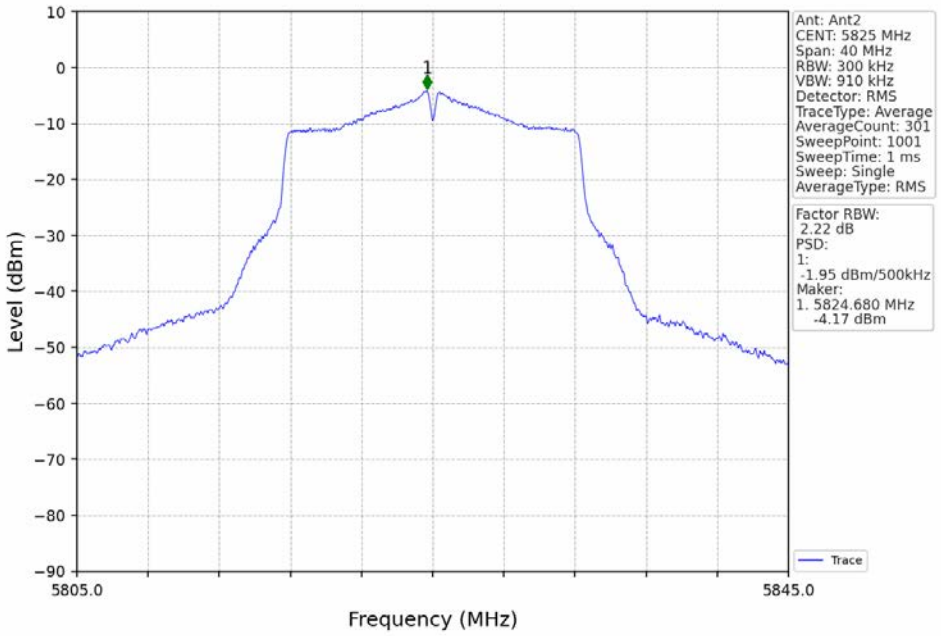
802.11a_MCH_5785MHz_Ant2_NTNV



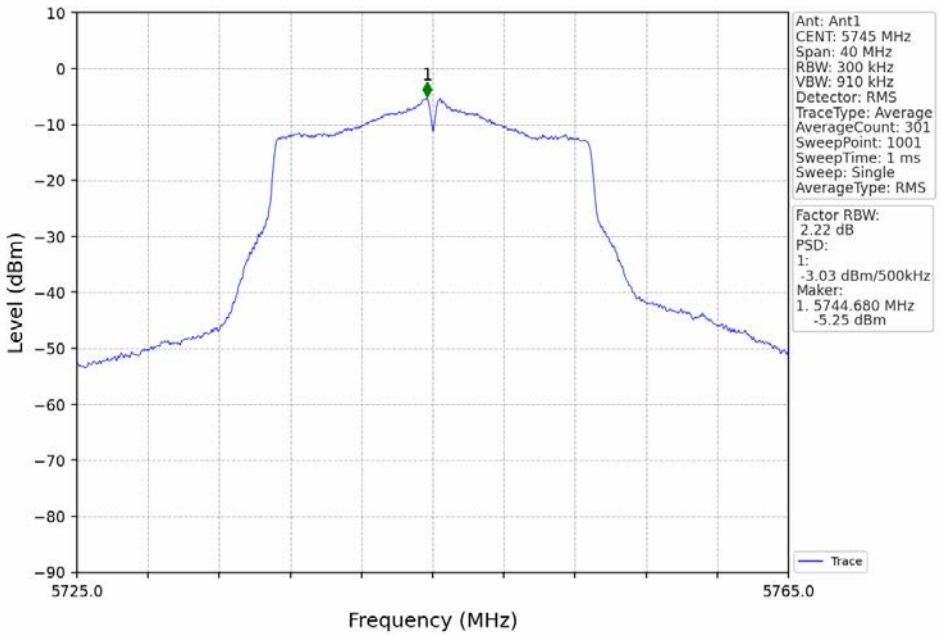
802.11a_HCH_5825MHz_Ant1_NTNV



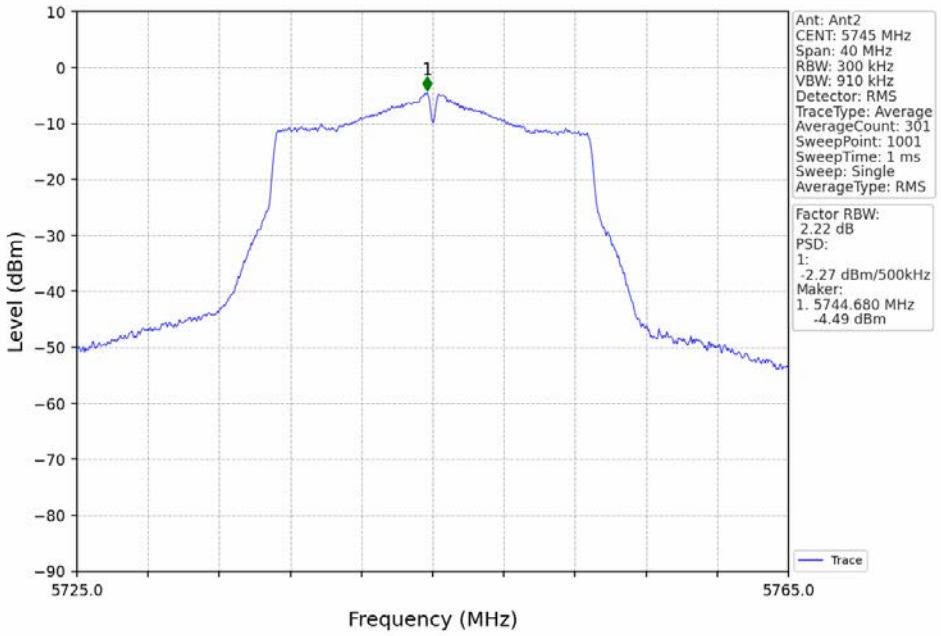
802.11a_HCH_5825MHz_Ant2_NTNV



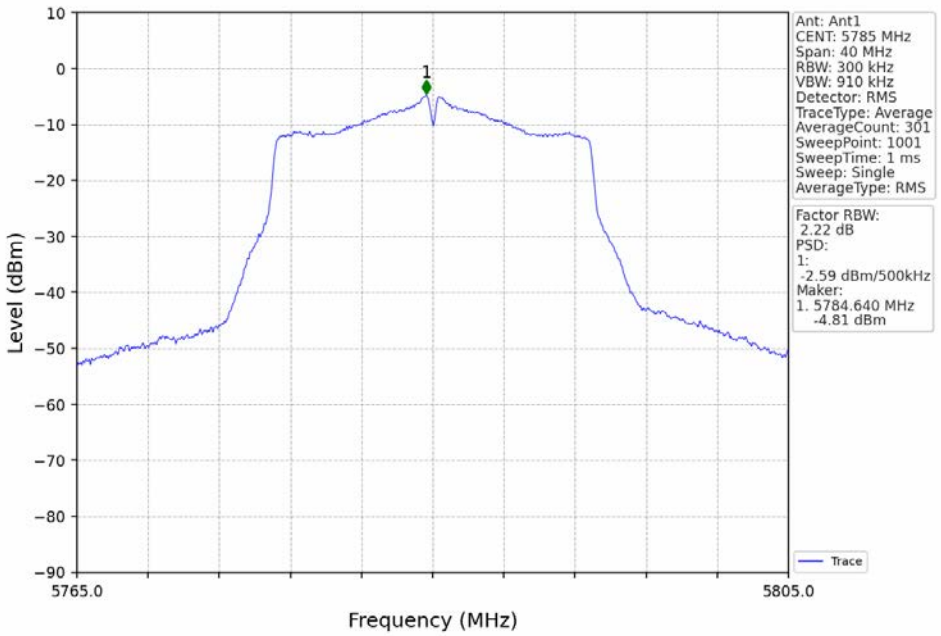
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



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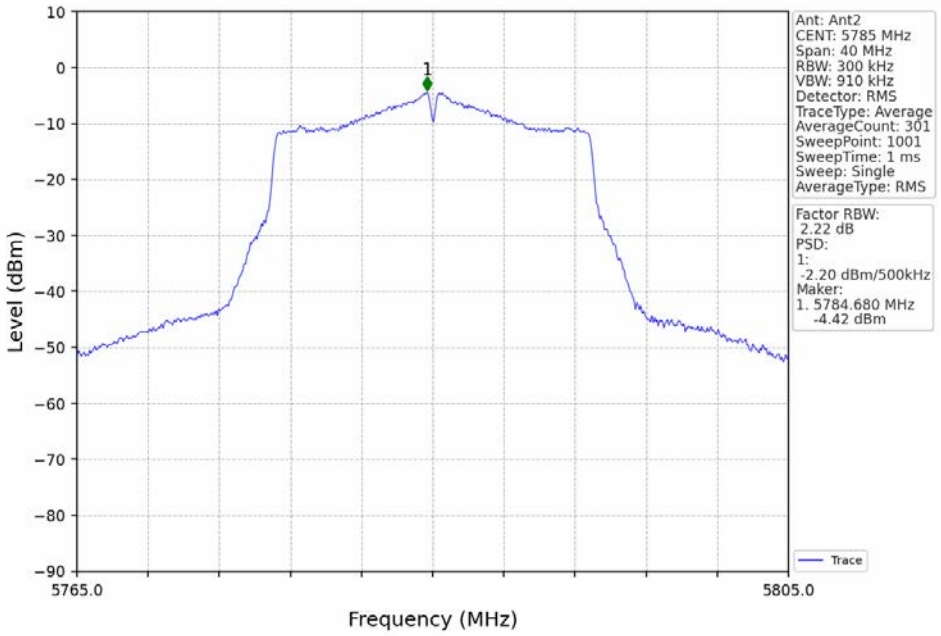
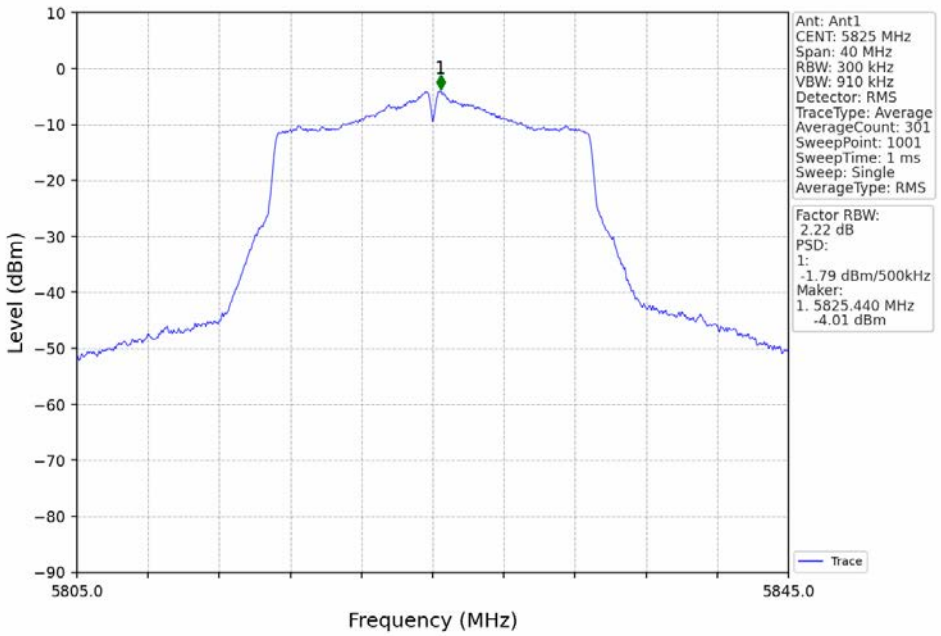
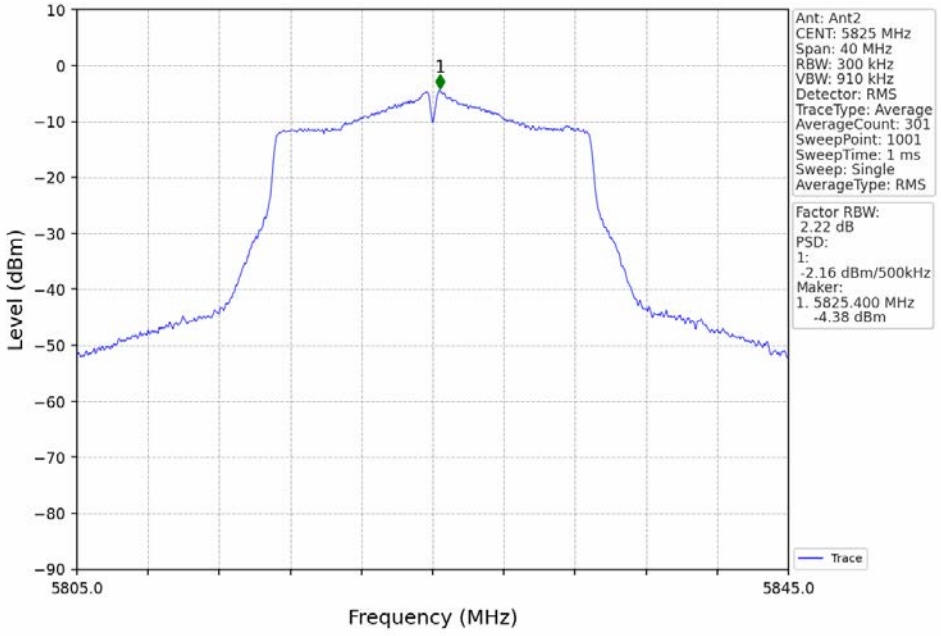


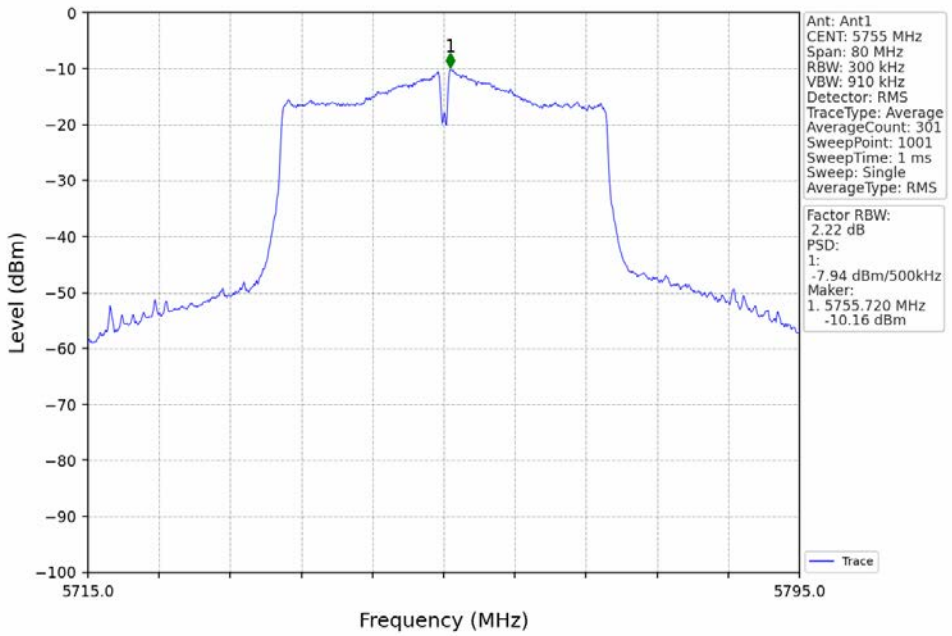
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



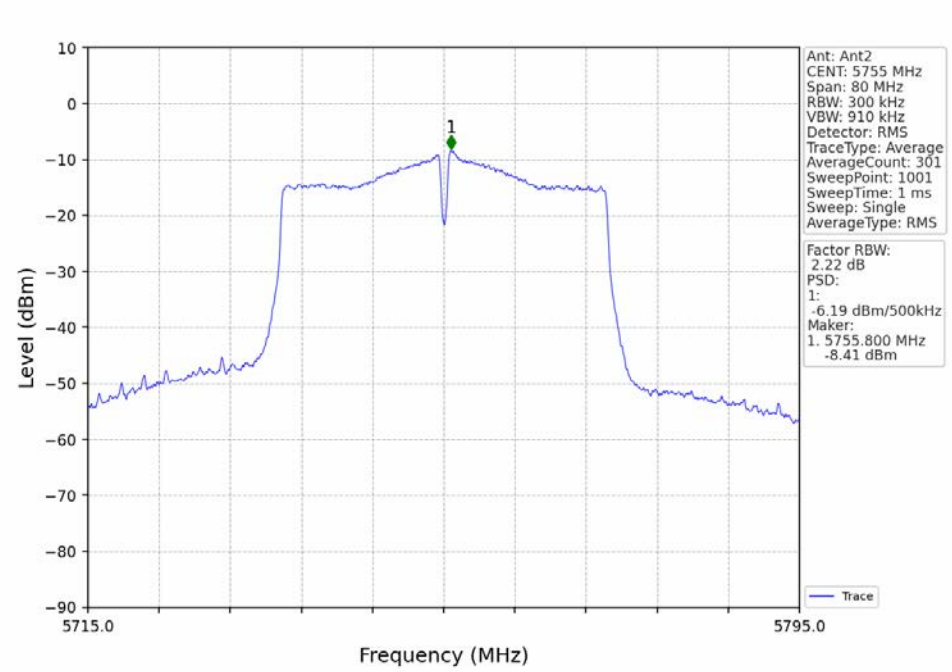
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



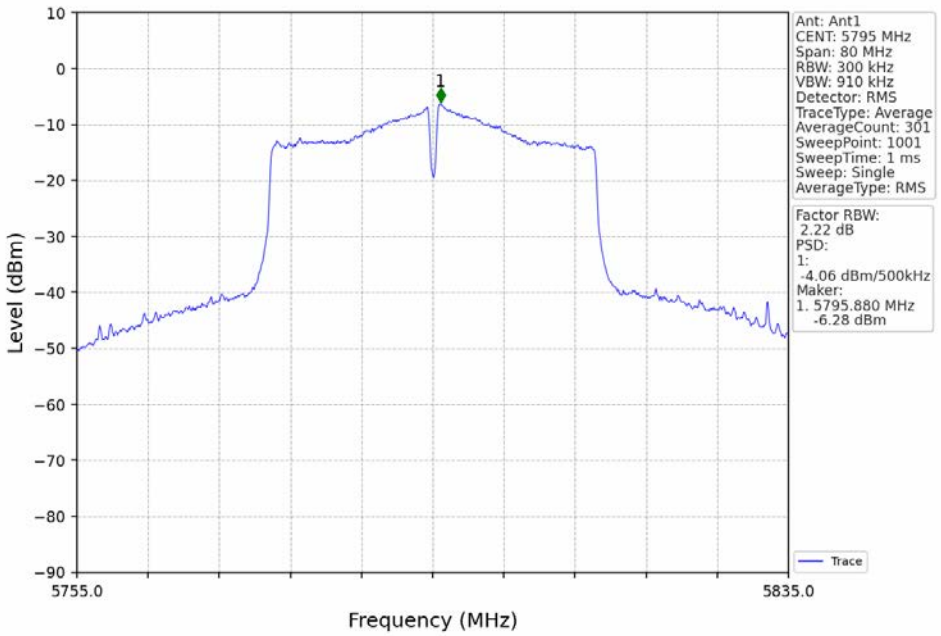
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



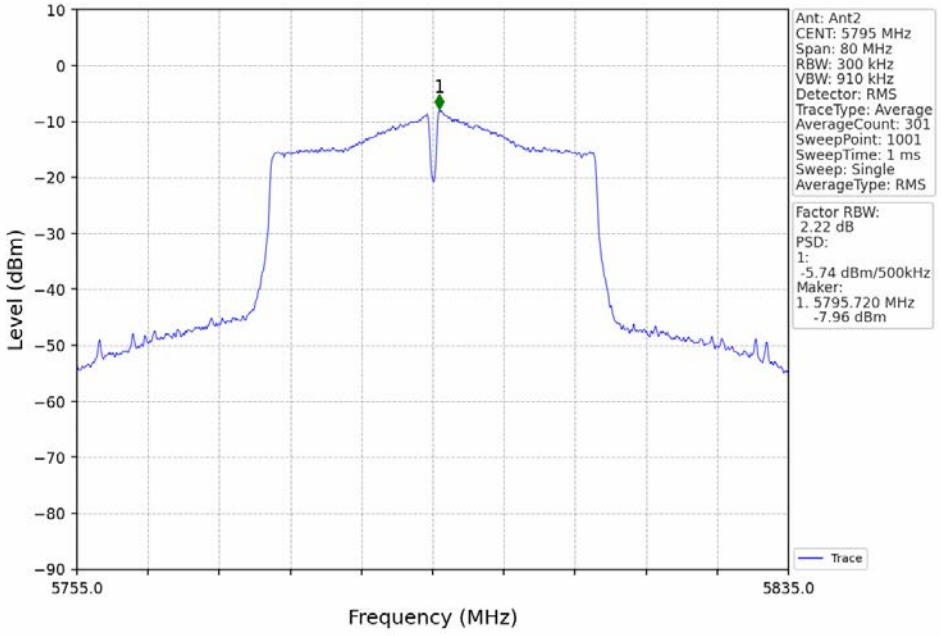
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



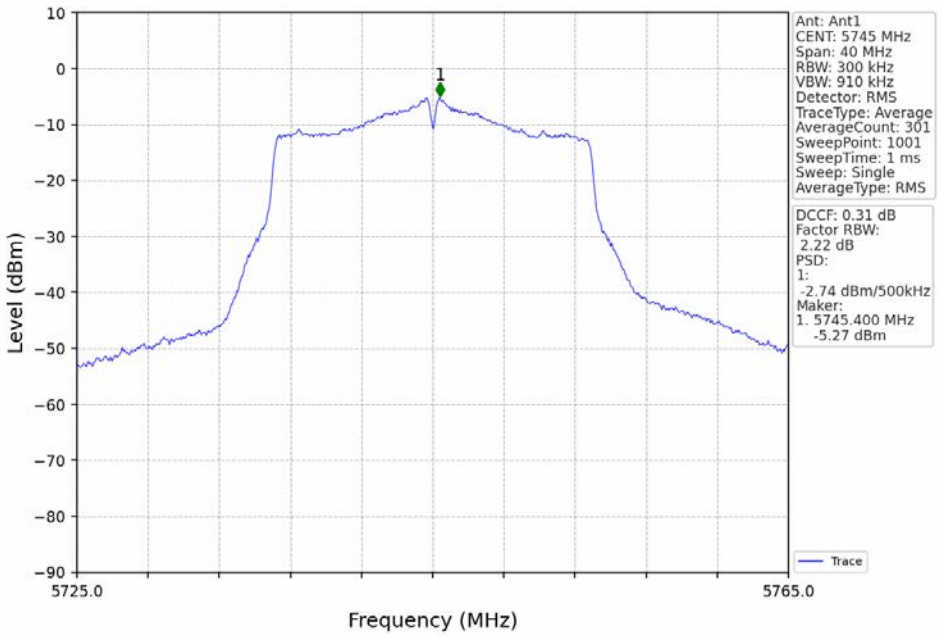
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



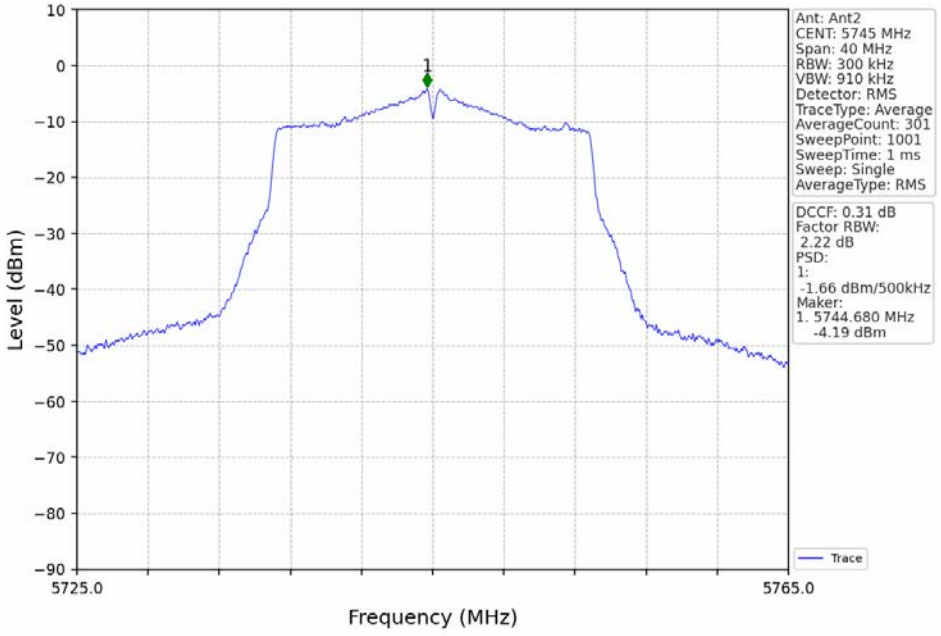
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



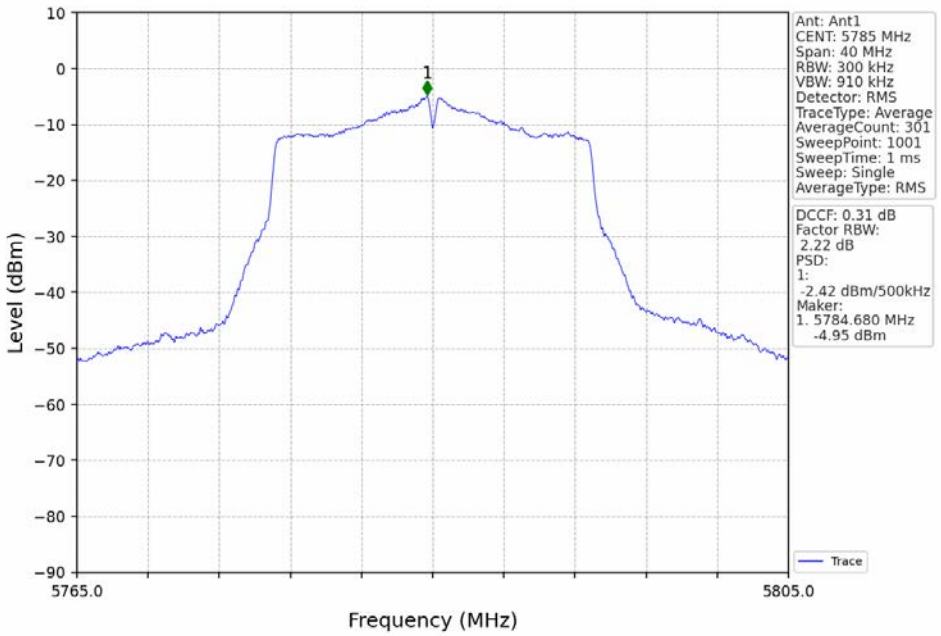
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



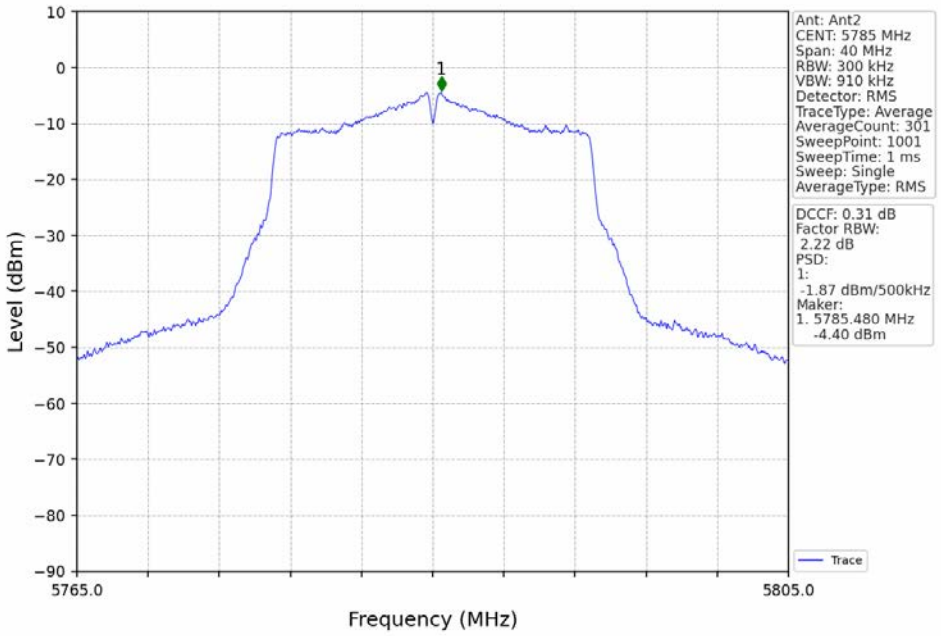
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



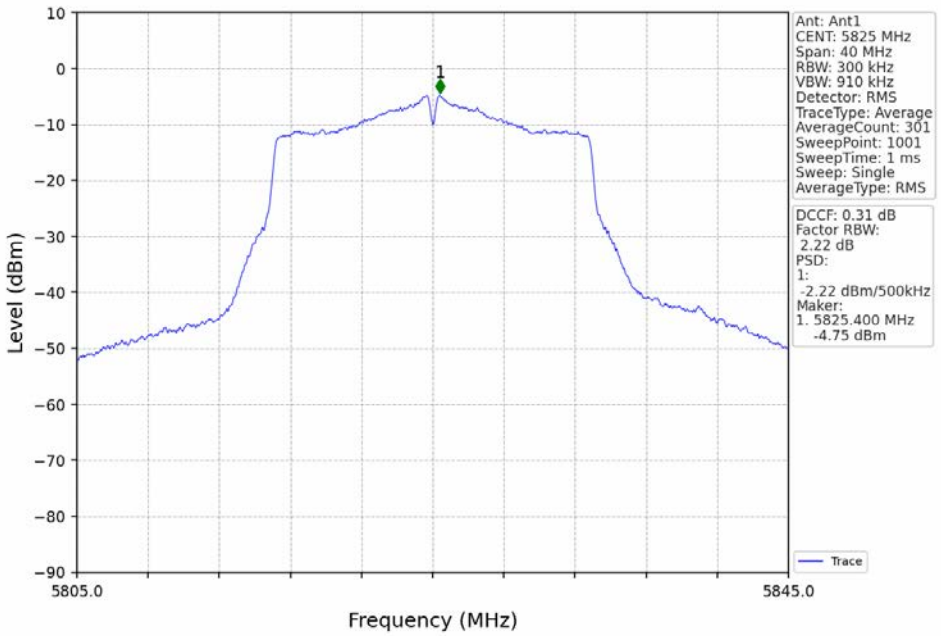
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



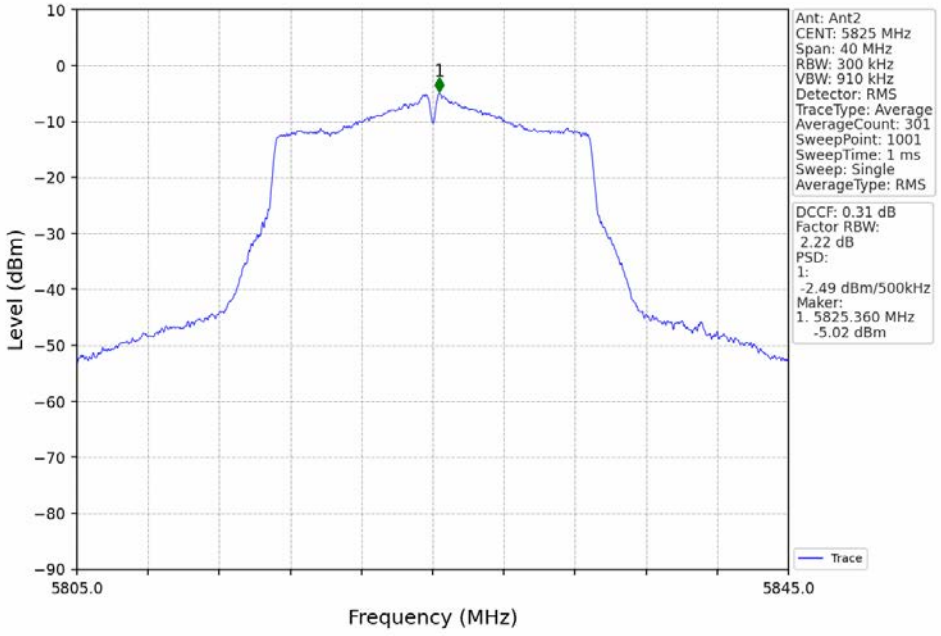
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



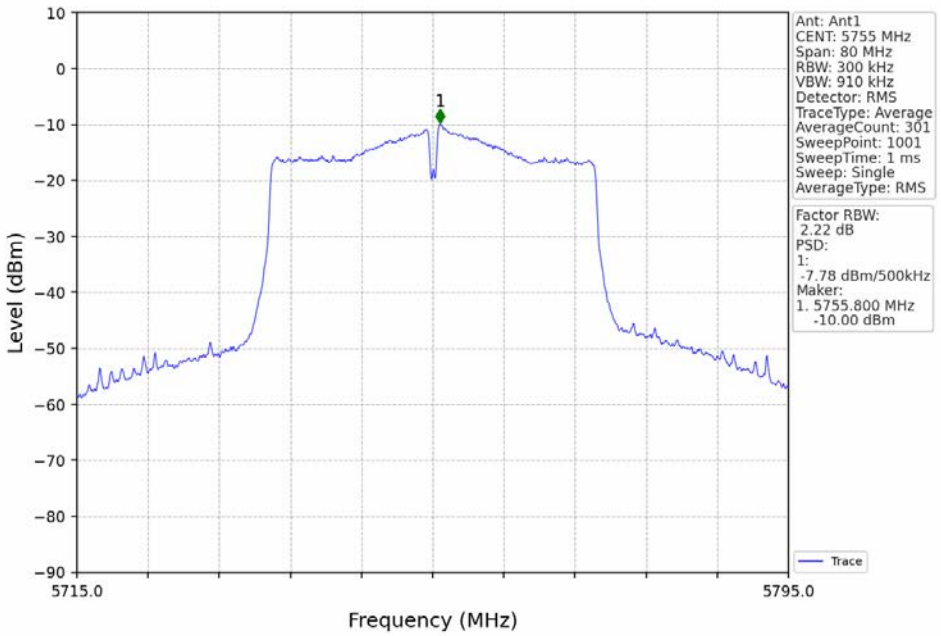
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



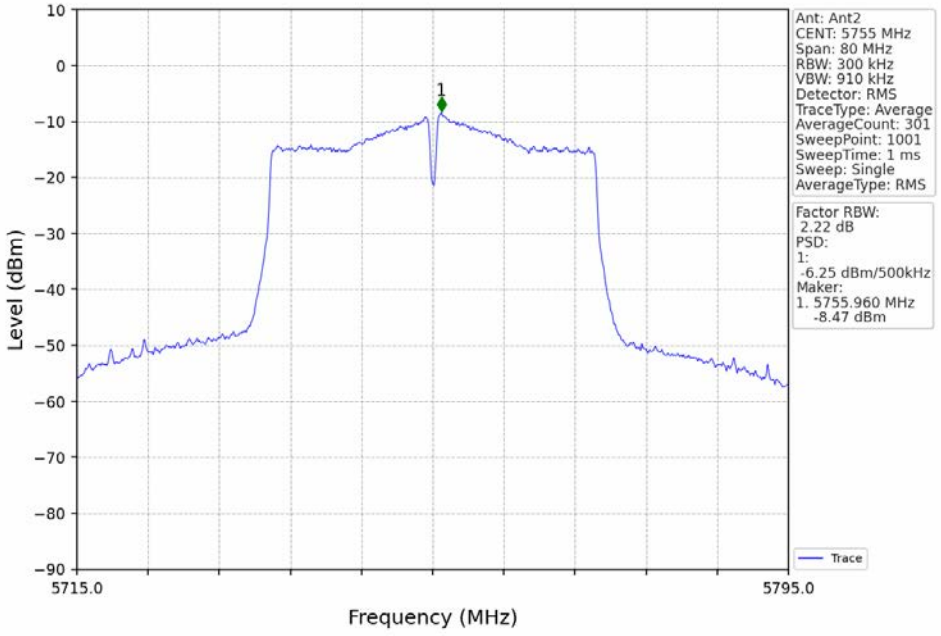
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



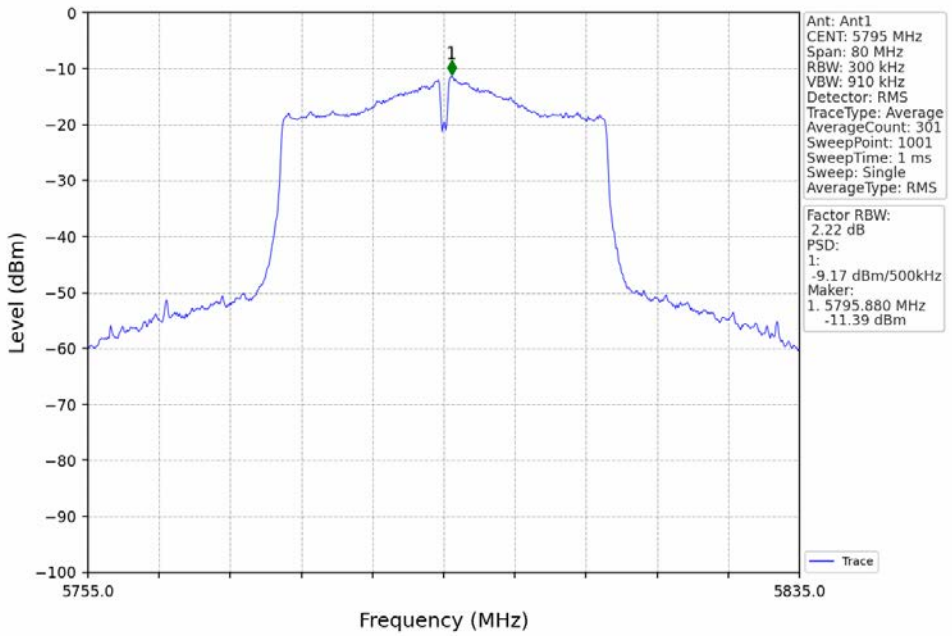
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



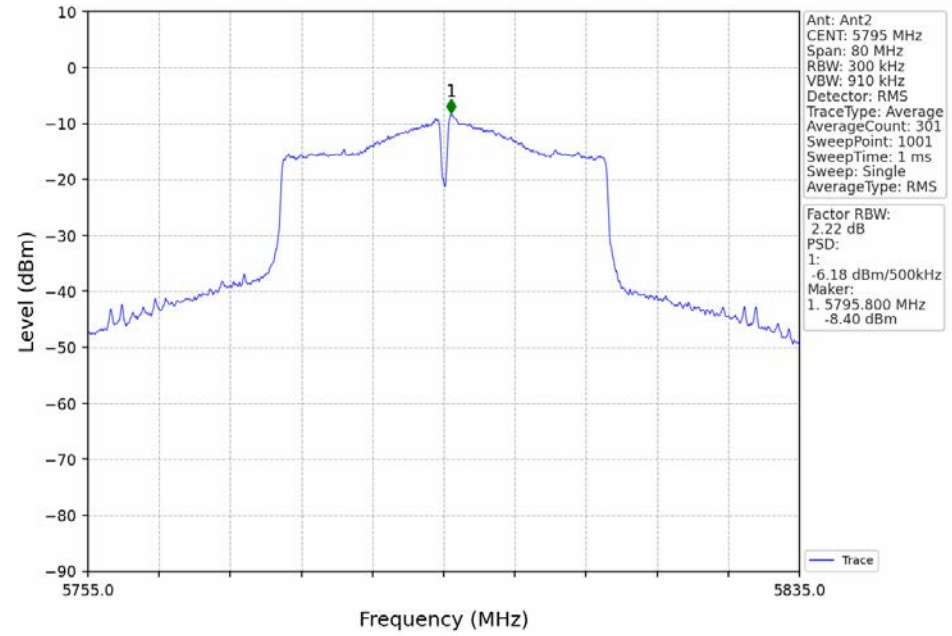
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



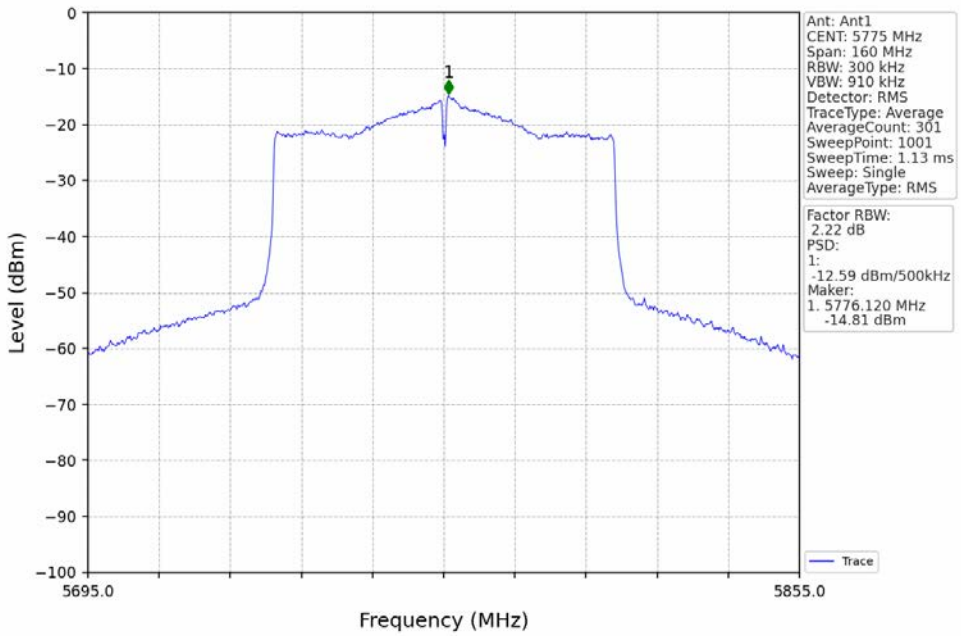
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



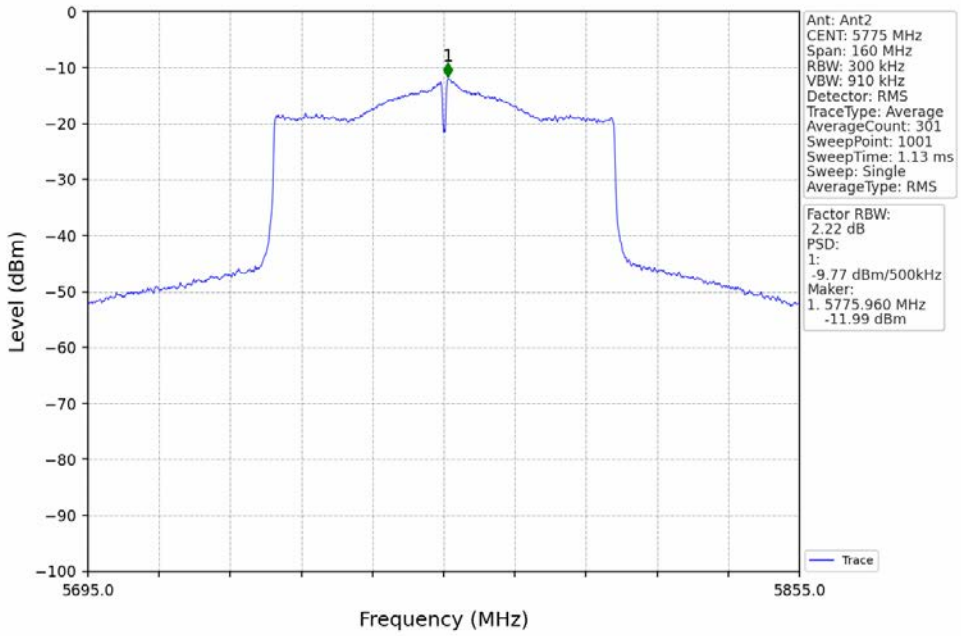
802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



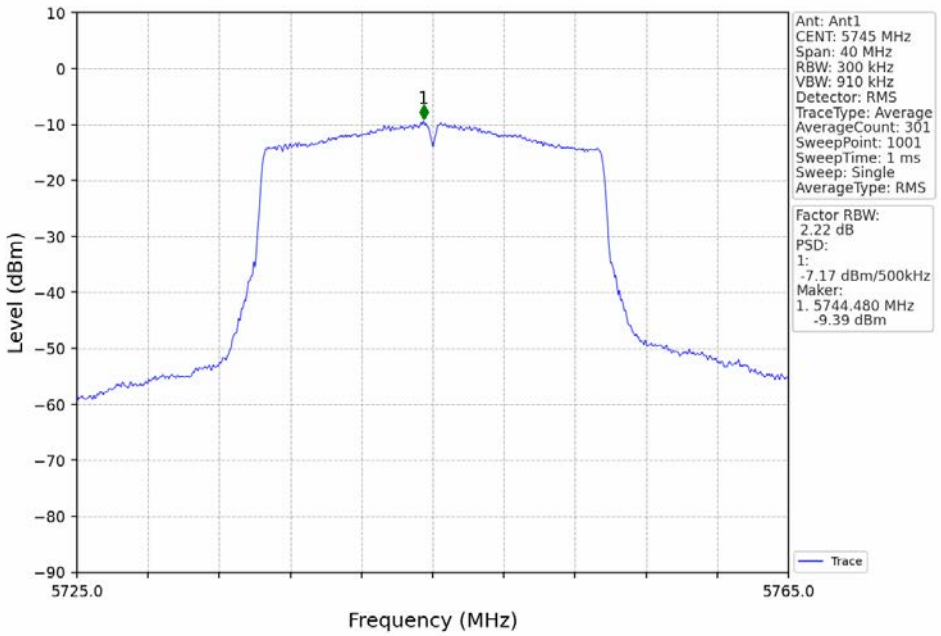
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



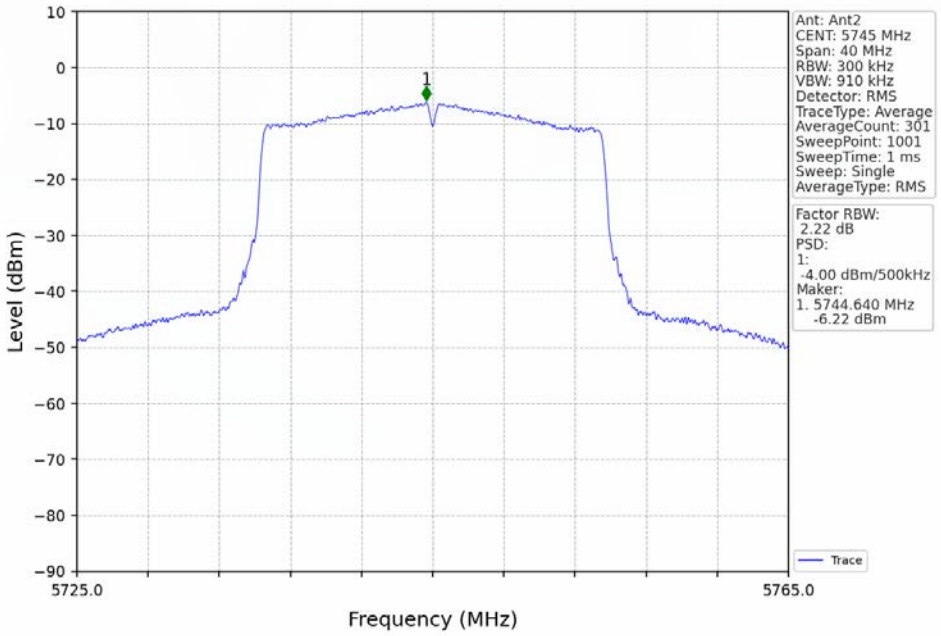
802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



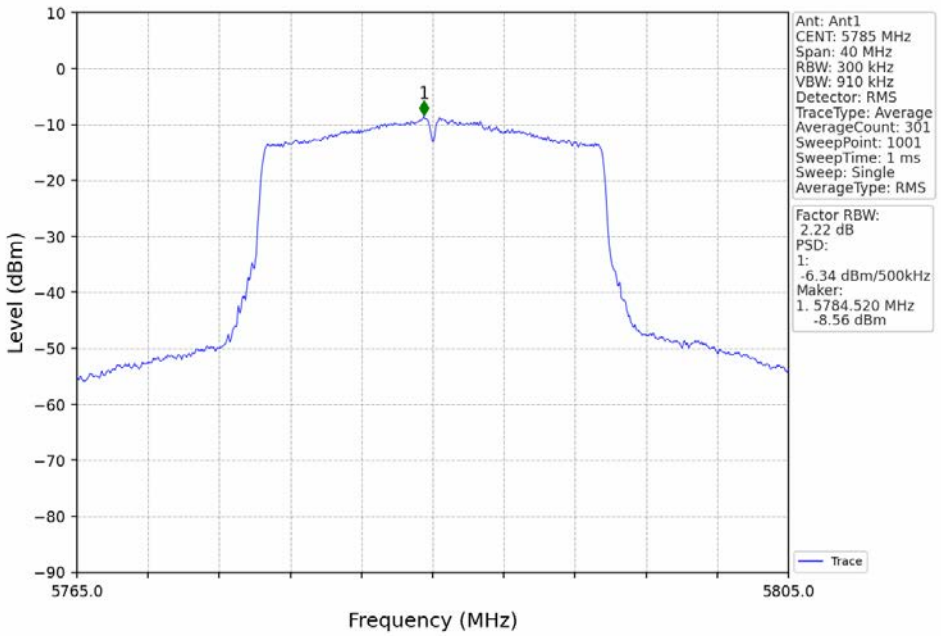
802.11ax(HEW20)_LCH_5745MHz_RU242_Left_Ant1_NTNV



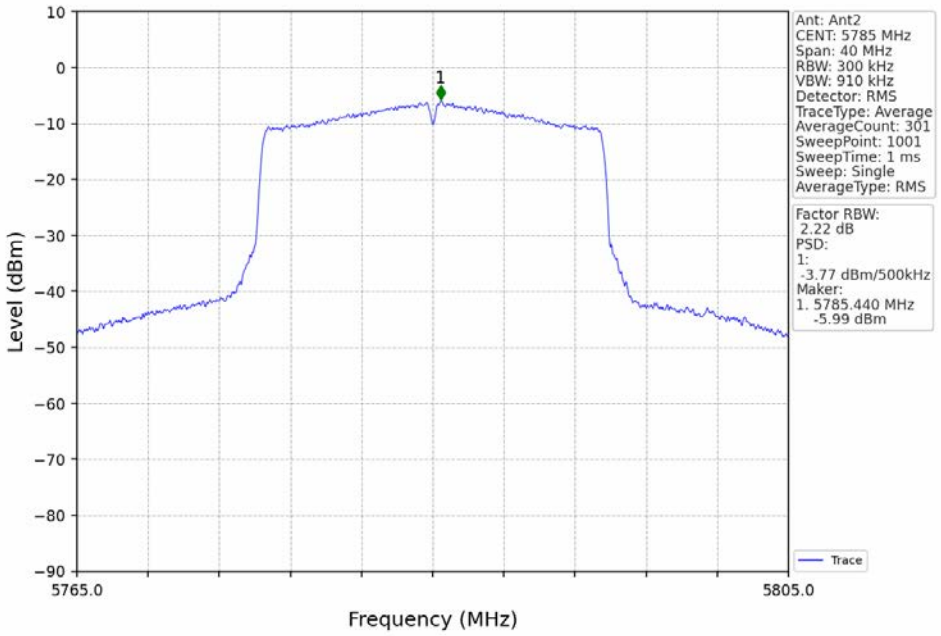
802.11ax(HEW20)_LCH_5745MHz_RU242_Left_Ant2_NTNV



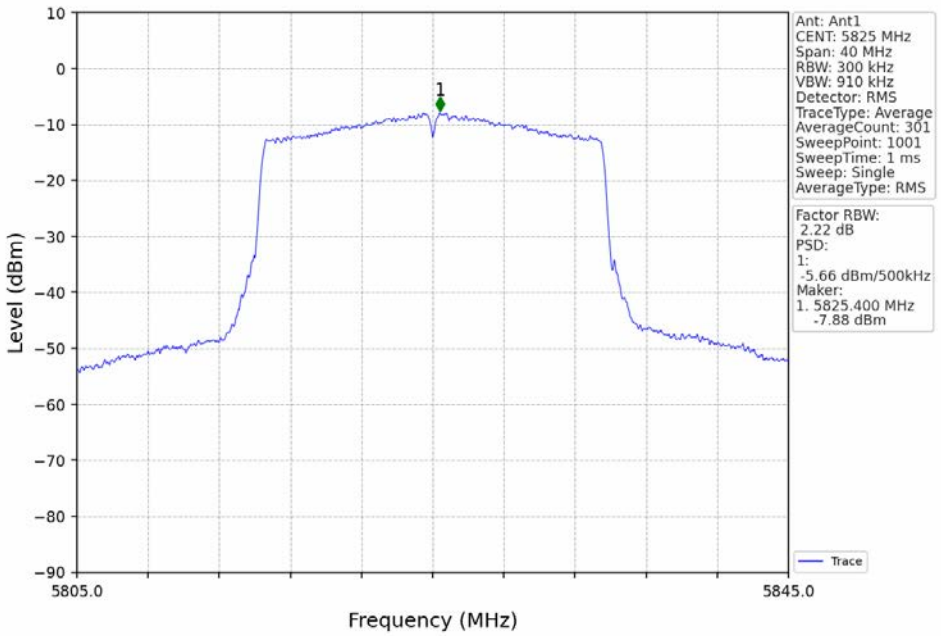
802.11ax(HEW20)_MCH_5785MHz_RU242_Left_Ant1_NTNV



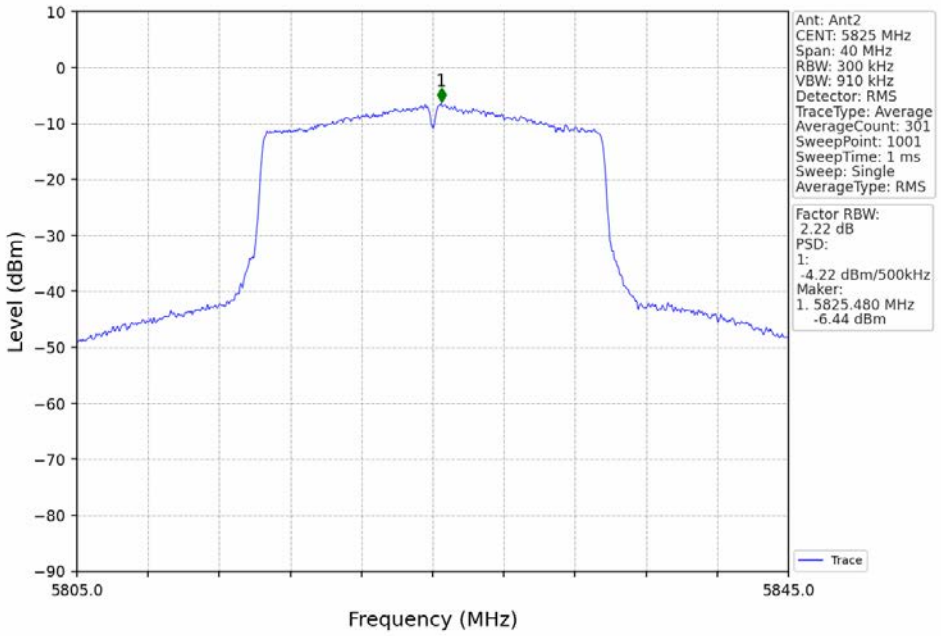
802.11ax(HEW20)_MCH_5785MHz_RU242_Left_Ant2_NTNV



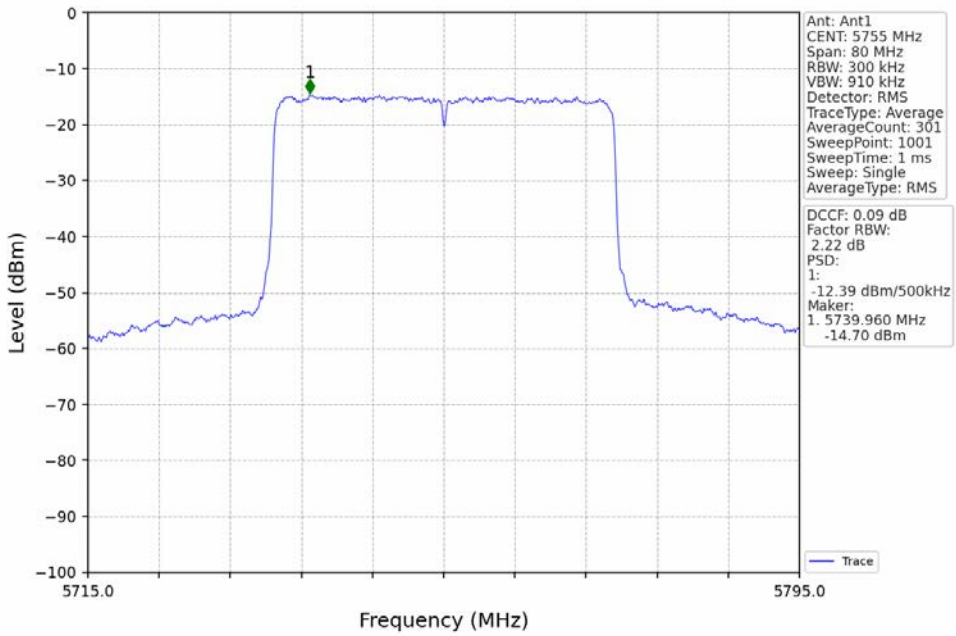
802.11ax(HEW20)_HCH_5825MHz_RU242_Left_Ant1_NTNV



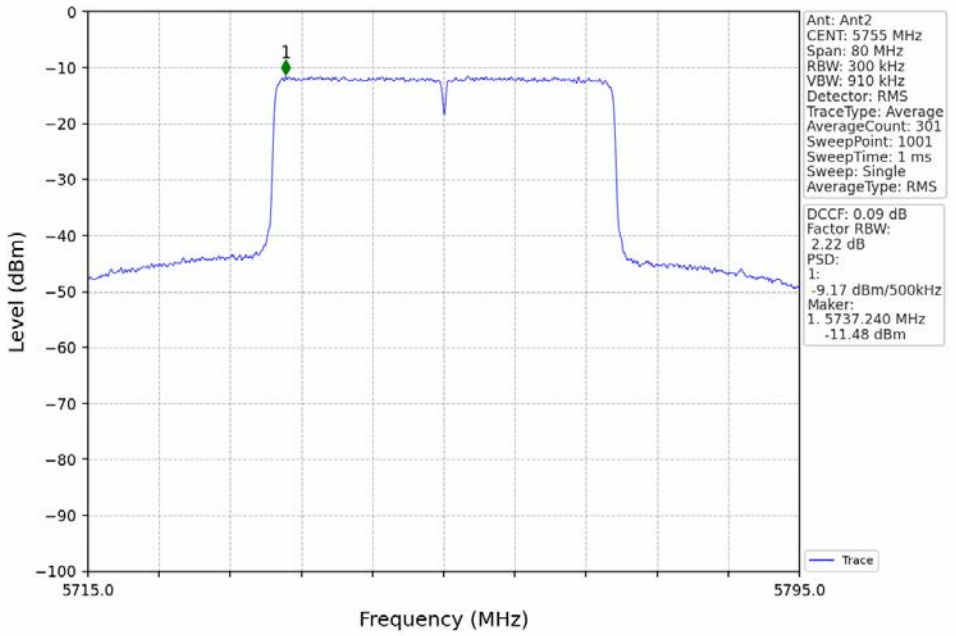
802.11ax(HEW20)_HCH_5825MHz_RU242_Left_Ant2_NTNV



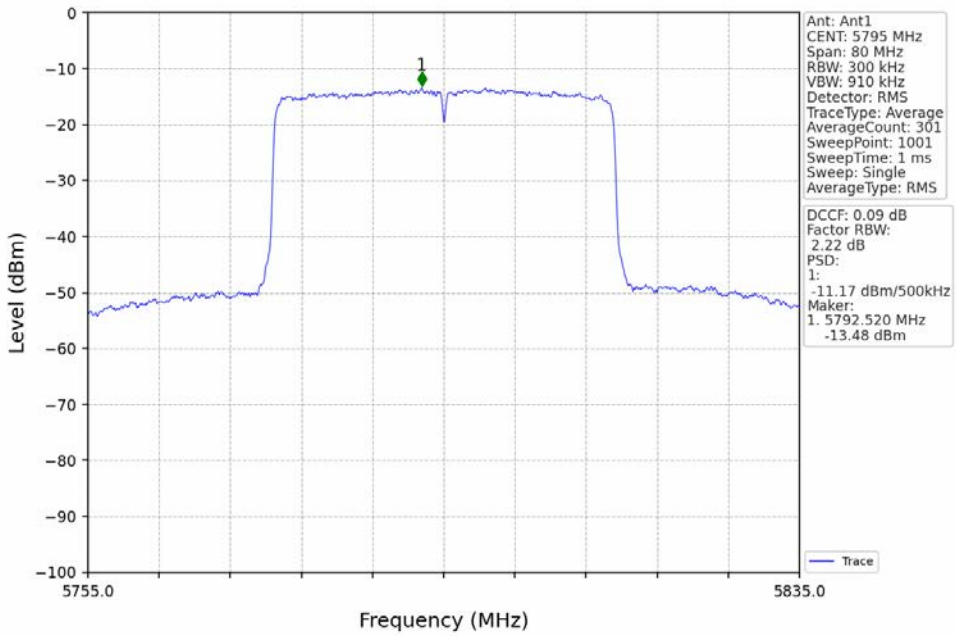
802.11ax(HEW40)_LCH_5755MHz_RU484_Left_Ant1_NTNV



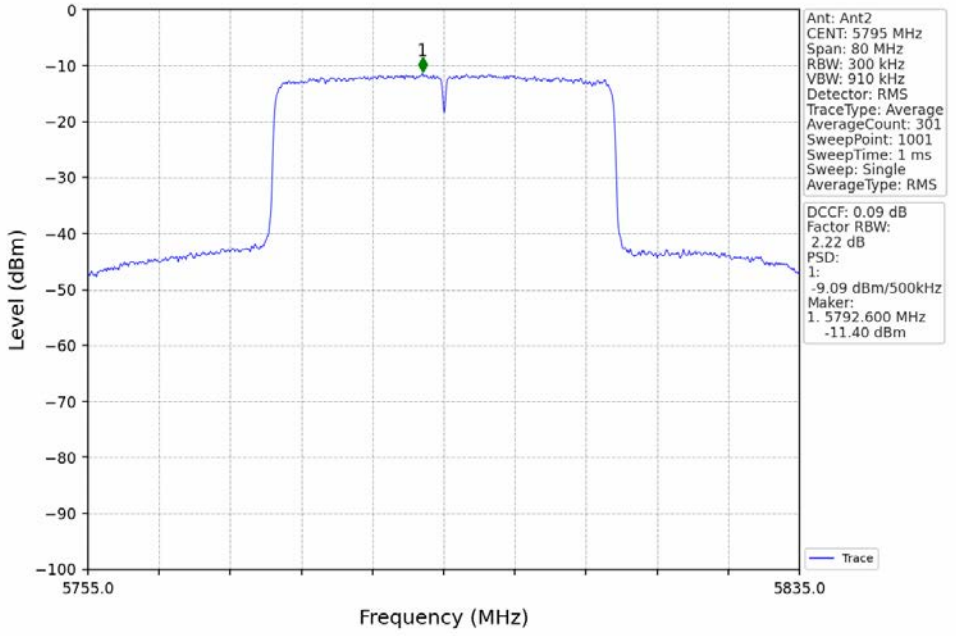
802.11ax(HEW40)_LCH_5755MHz_RU484_Left_Ant2_NTNV



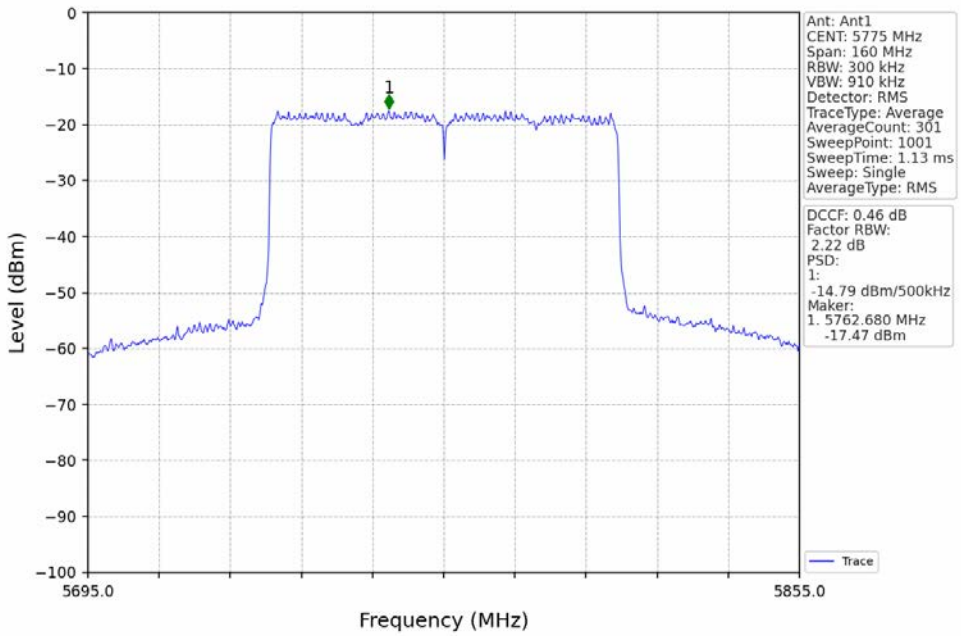
802.11ax(HEW40)_HCH_5795MHz_RU484_Left_Ant1_NTNV



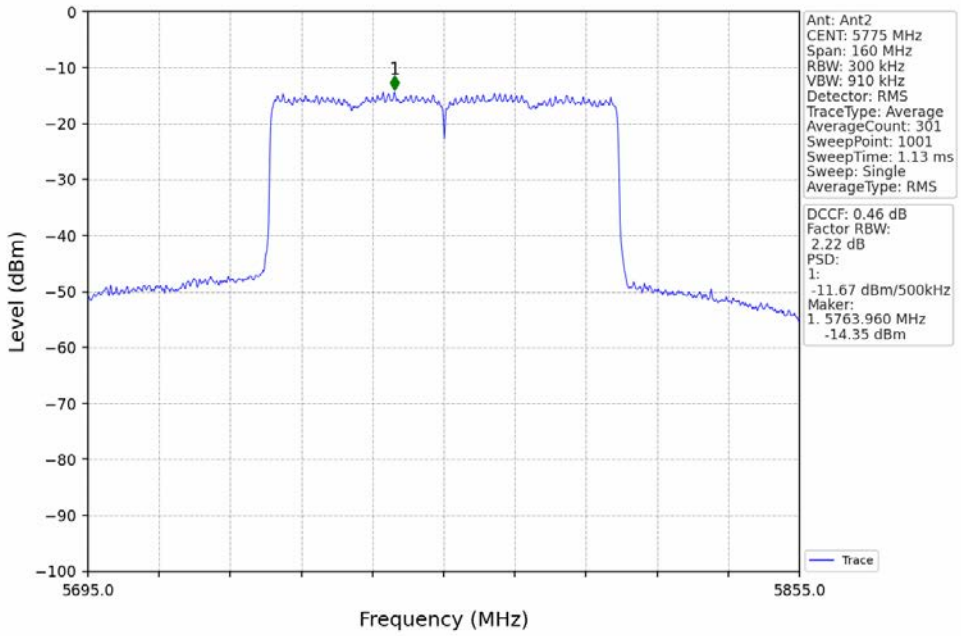
802.11ax(HEW40)_HCH_5795MHz_RU484_Left_Ant2_NTNV



802.11ax(HEW80)_MCH_5775MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_RU996_Left_Ant2_NTNV



5. Unwanted Emissions In Restricted Frequency Bands

5.1 RSE

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Unwanted Emissions (dBm)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
		5785	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
		5825	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
802.11n (HT20)	MIMO	5745	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
		5785	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
		5825	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
802.11n (HT40)	MIMO	5755	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
		5795	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
802.11ac (VHT20)	MIMO	5745	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
		5785	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
		5825	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
802.11ac (VHT40)	MIMO	5755	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
		5795	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
802.11ac (VHT80)	MIMO	5775	/	/	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
802.11ax (HEW20)	MIMO	5745	RU242	Left	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
		5785	RU242	Left	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass
		5825	RU242	Left	1	Refer To Test Graph		Pass
					2	Refer To Test Graph		Pass
					MIMO	Refer To Test Graph		Pass

802.11ax (HEW40)	MIMO	5755	RU484	Left	1	Refer To Test Graph	Pass
					2	Refer To Test Graph	Pass
					MIMO	Refer To Test Graph	Pass
		5795	RU484	Left	1	Refer To Test Graph	Pass
					2	Refer To Test Graph	Pass
					MIMO	Refer To Test Graph	Pass
802.11ax (HEW80)	MIMO	5775	RU996	Left	1	Refer To Test Graph	Pass
					2	Refer To Test Graph	Pass
					MIMO	Refer To Test Graph	Pass