

ANNEX F TEST DATA

For

Project No.:	8328EU121205W
Client:	Miotone Technology CO.,LTD
Product Description:	Dash cam
Model No.:	Mirror 1
FCC ID:	2BODW-MIRROR
Technology:	WiFi 5G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2025-04-07

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass
Frequency Stability	Pass

1. Duty Cycle

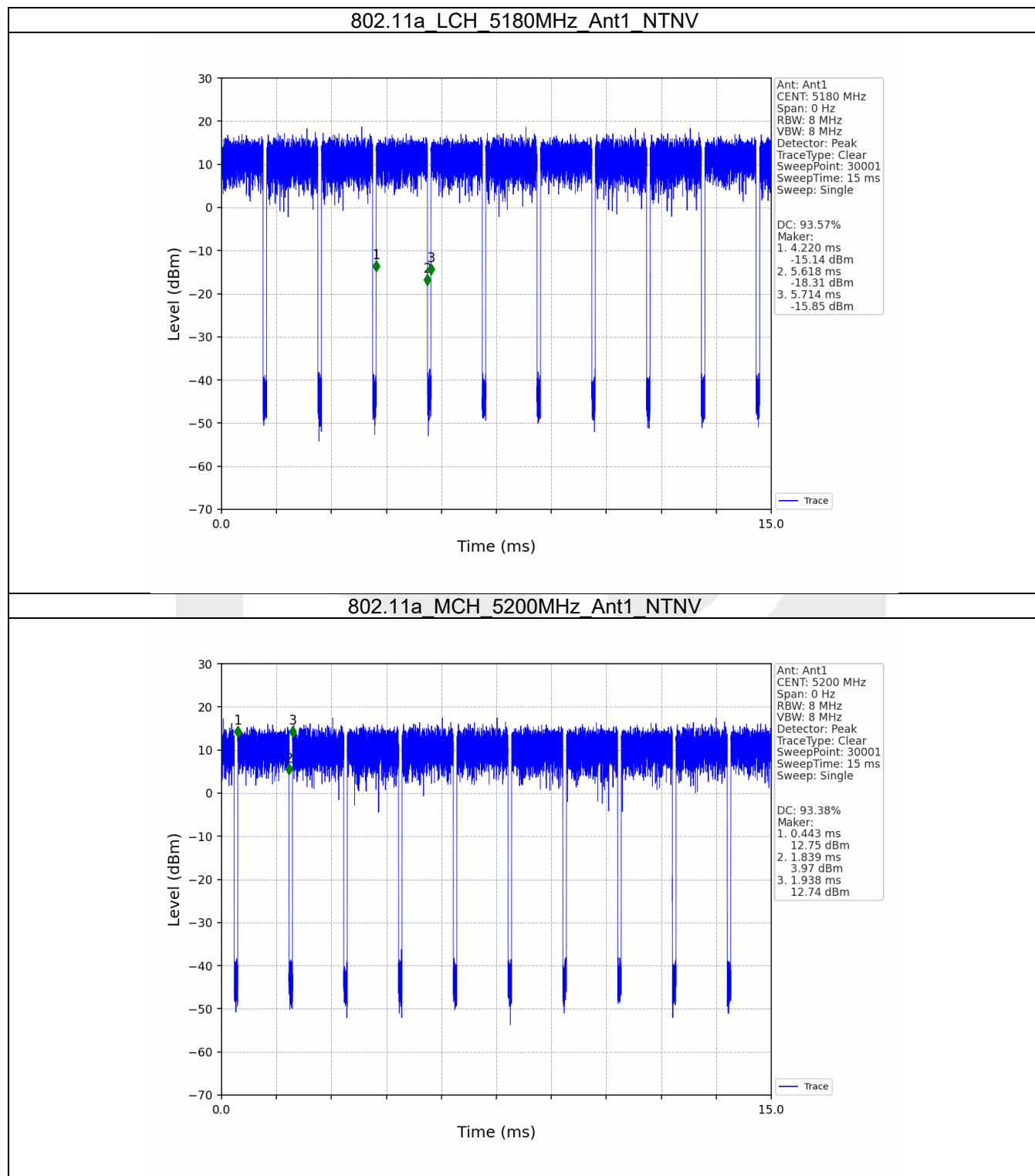
1.1 Test Result

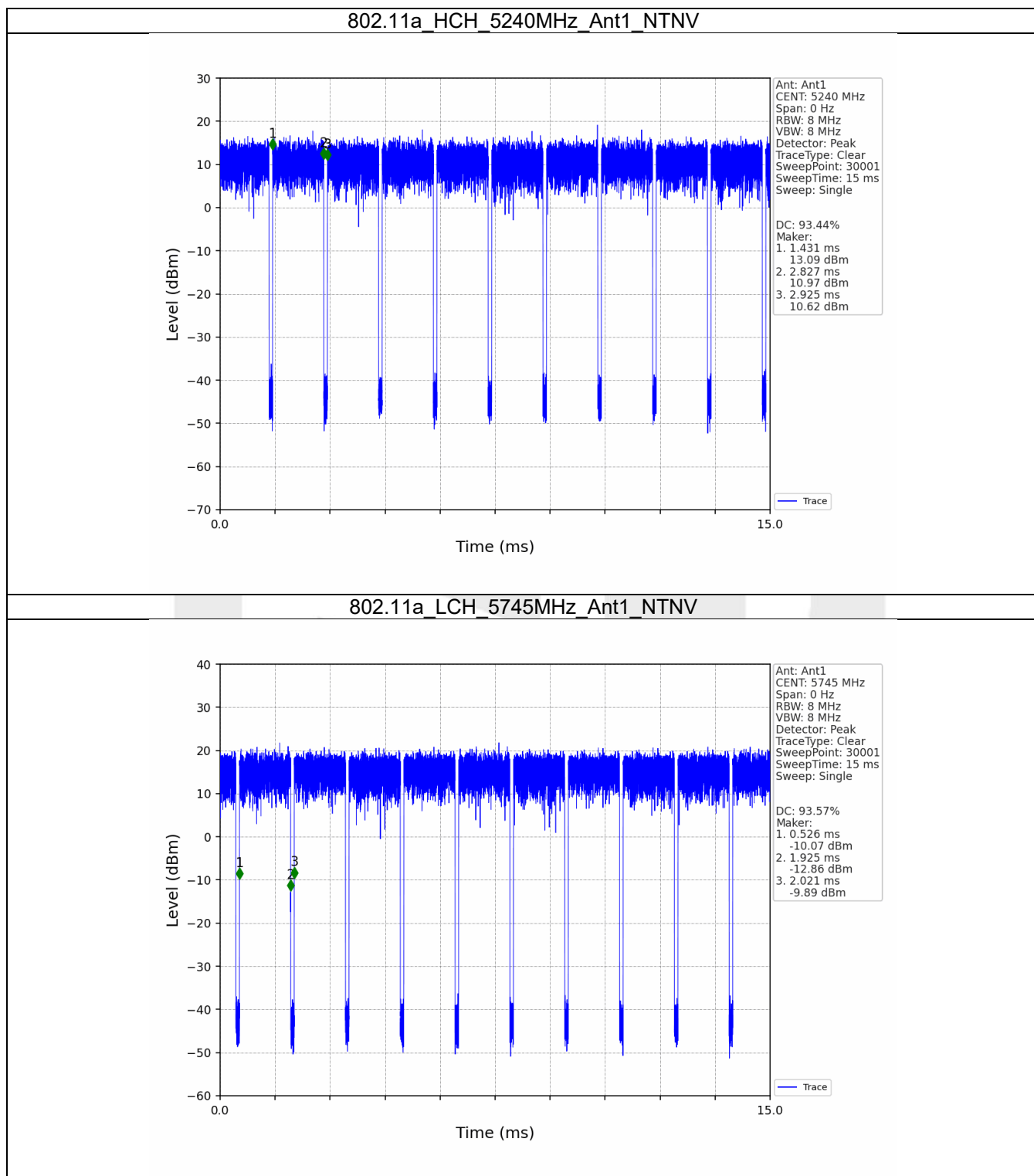
1.1.1 Ant1

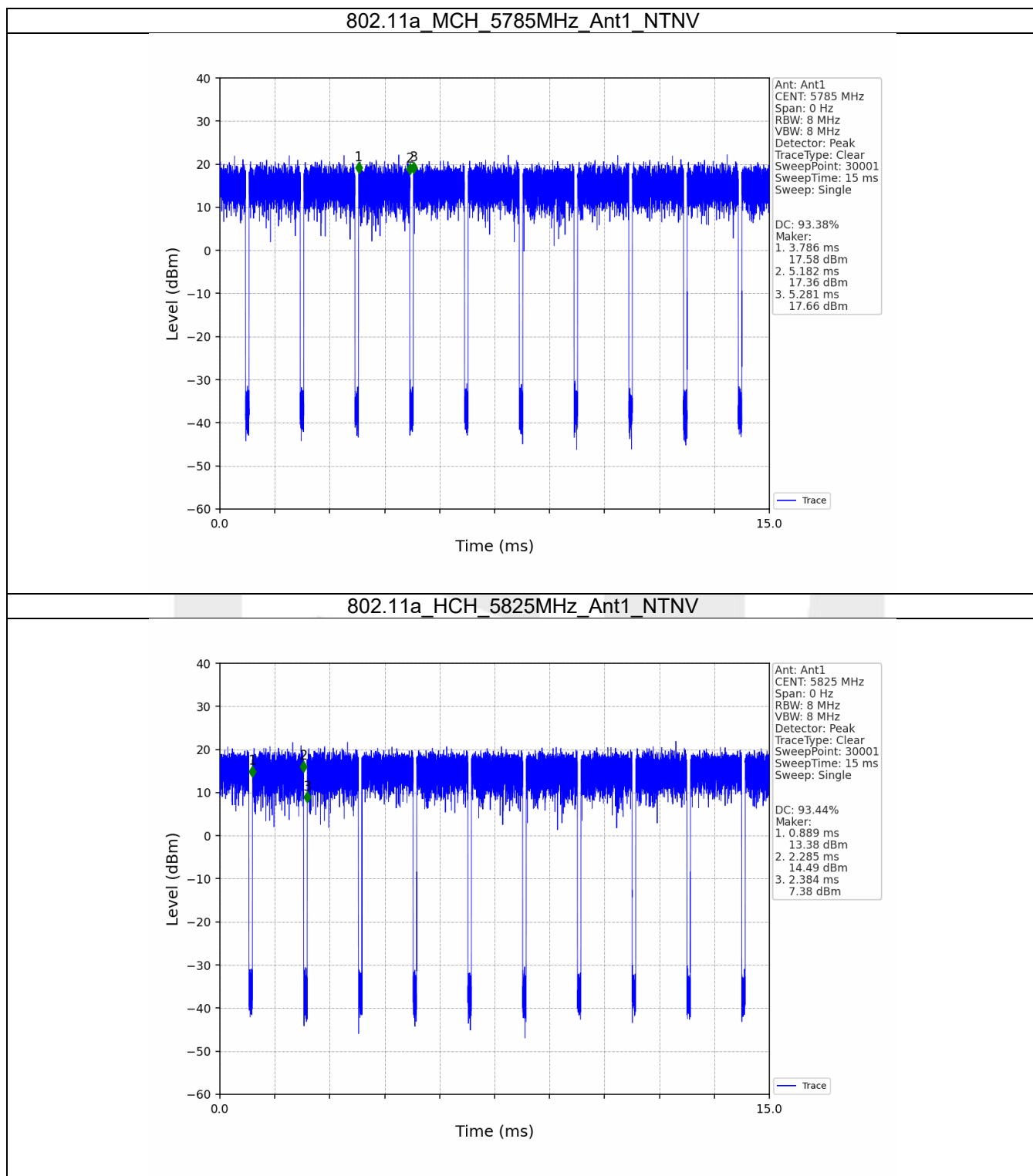
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	1.398	1.494	93.57	0.29	0.03
		5200	/	/	1.396	1.495	93.38	0.30	0.00
		5240	/	/	1.396	1.494	93.44	0.29	0.03
		5745	/	/	1.398	1.494	93.57	0.29	0.00
		5785	/	/	1.396	1.495	93.38	0.30	0.03
		5825	/	/	1.396	1.494	93.44	0.29	0.03
802.11n (HT20)	SISO	5180	/	/	0.185	0.279	66.31	1.78	0.10
		5200	/	/	0.182	0.279	65.23	1.86	0.14
		5240	/	/	0.185	0.279	66.31	1.78	0.16
		5745	/	/	0.183	0.279	65.59	1.83	0.06
		5785	/	/	0.183	0.279	65.59	1.83	0.09
		5825	/	/	0.182	0.279	65.23	1.86	0.10
802.11n (HT40)	SISO	5190	/	/	0.651	0.747	87.15	0.60	0.04
		5230	/	/	0.648	0.747	86.75	0.62	0.04
		5755	/	/	0.651	0.747	87.15	0.60	0.04
		5795	/	/	0.648	0.747	86.75	0.62	0.04
802.11ac (VHT20)	SISO	5180	/	/	1.316	1.415	93.00	0.32	0.03
		5200	/	/	1.316	1.415	93.00	0.32	0.03
		5240	/	/	1.316	1.415	93.00	0.32	0.03
		5745	/	/	1.316	1.415	93.00	0.32	0.03
		5785	/	/	1.319	1.415	93.22	0.31	0.00
		5825	/	/	1.316	1.415	93.00	0.32	0.03
802.11ac (VHT40)	SISO	5190	/	/	0.656	0.755	86.89	0.61	0.04
		5230	/	/	0.656	0.755	86.89	0.61	0.04
		5755	/	/	0.659	0.756	87.17	0.60	0.03
		5795	/	/	0.656	0.755	86.89	0.61	0.07
802.11ac (VHT80)	SISO	5210	/	/	0.327	0.423	77.30	1.12	0.02
		5775	/	/	0.328	0.424	77.36	1.11	0.06
802.11ax (HEW20)	SISO	5180	RU242	Left	1.020	1.119	91.15	0.40	0.00
		5200	RU242	Left	1.021	1.120	91.16	0.40	0.03
		5240	RU242	Left	1.023	1.120	91.34	0.39	0.03
		5745	RU242	Left	1.023	1.120	91.34	0.39	0.03
		5785	RU242	Left	1.023	1.120	91.34	0.39	0.03
		5825	RU242	Left	1.021	1.120	91.16	0.40	0.03
802.11ax (HEW40)	SISO	5190	RU484	Left	0.544	0.640	85.00	0.71	0.03
		5230	RU484	Left	0.543	0.640	84.84	0.71	0.03
		5755	RU484	Left	0.544	0.640	85.00	0.71	0.00
		5795	RU484	Left	0.543	0.640	84.84	0.71	0.06
802.11ax (HEW80)	SISO	5210	RU996	Left	0.293	0.390	75.13	1.24	0.10
		5775	RU996	Left	0.293	0.389	75.32	1.23	0.07

1.2 Test Graph

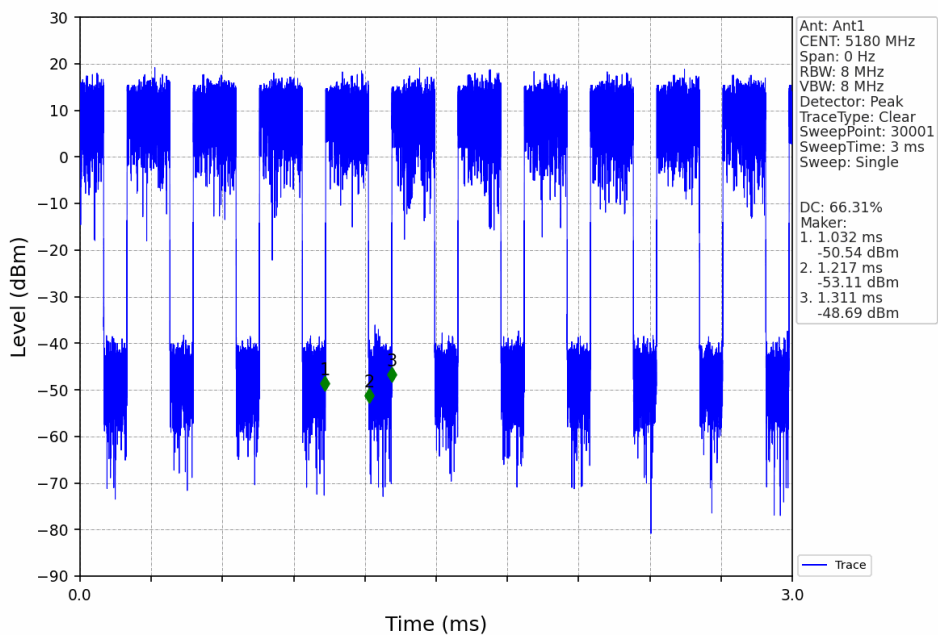
1.2.1 Ant1



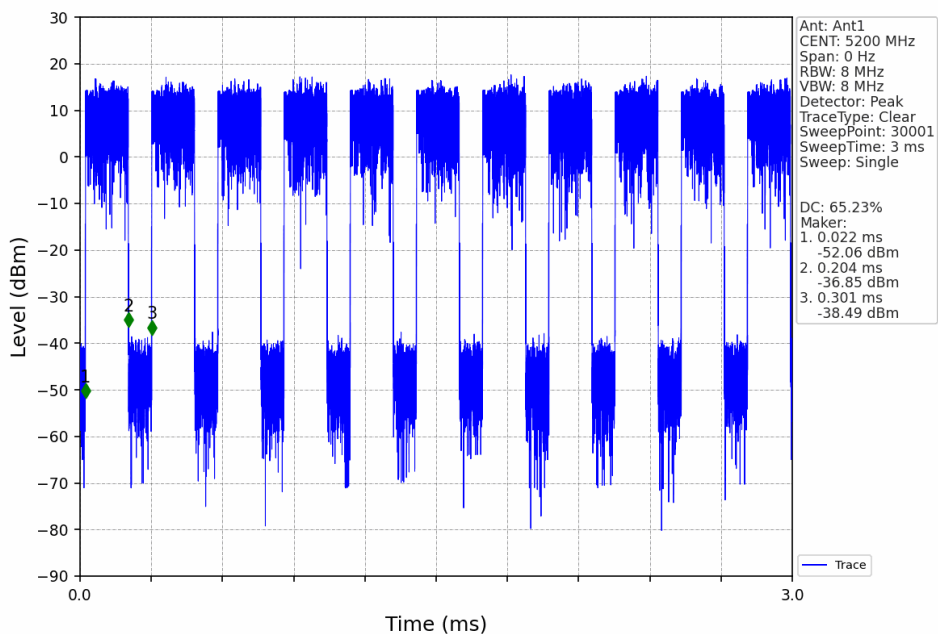




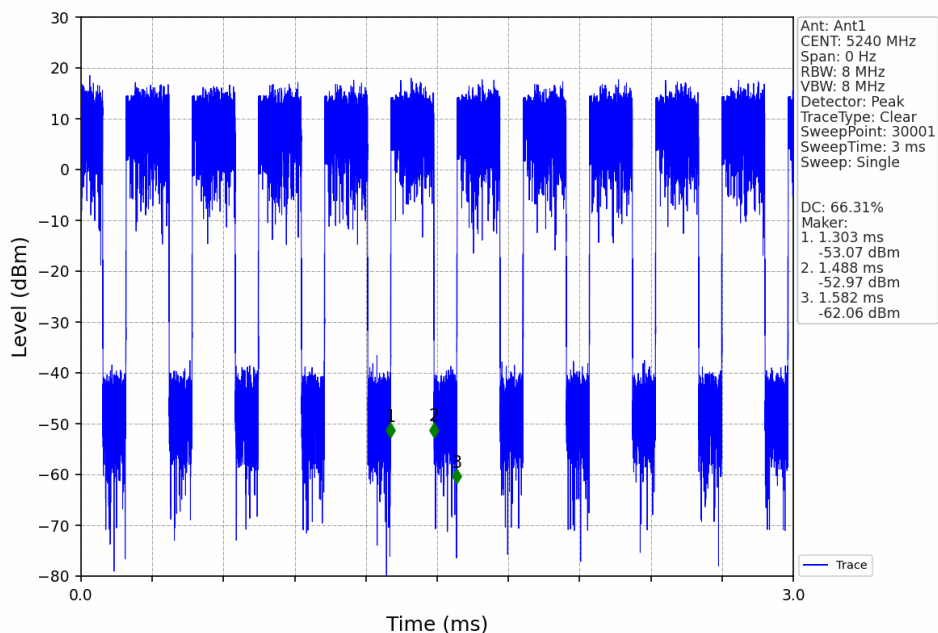
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



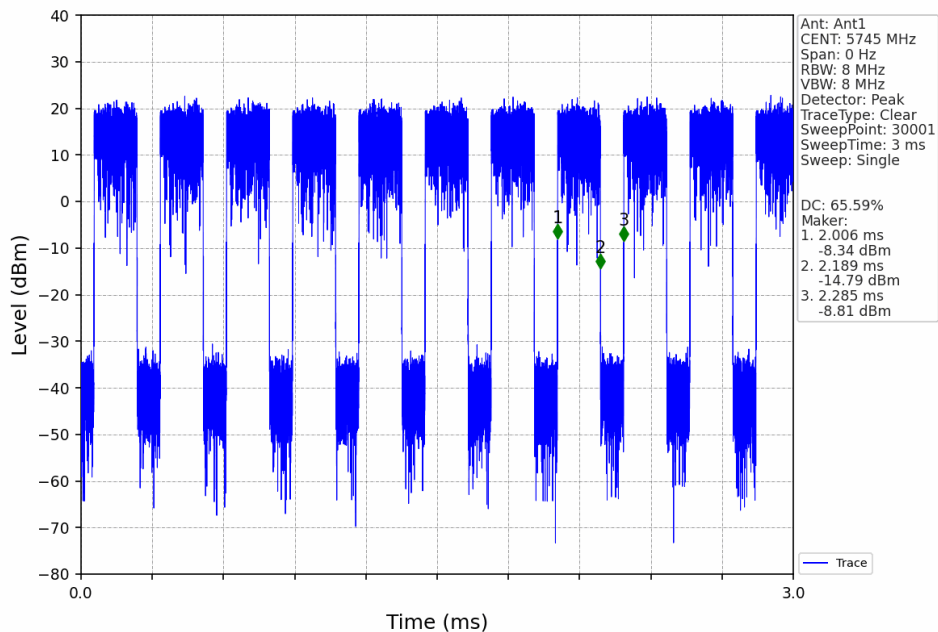
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



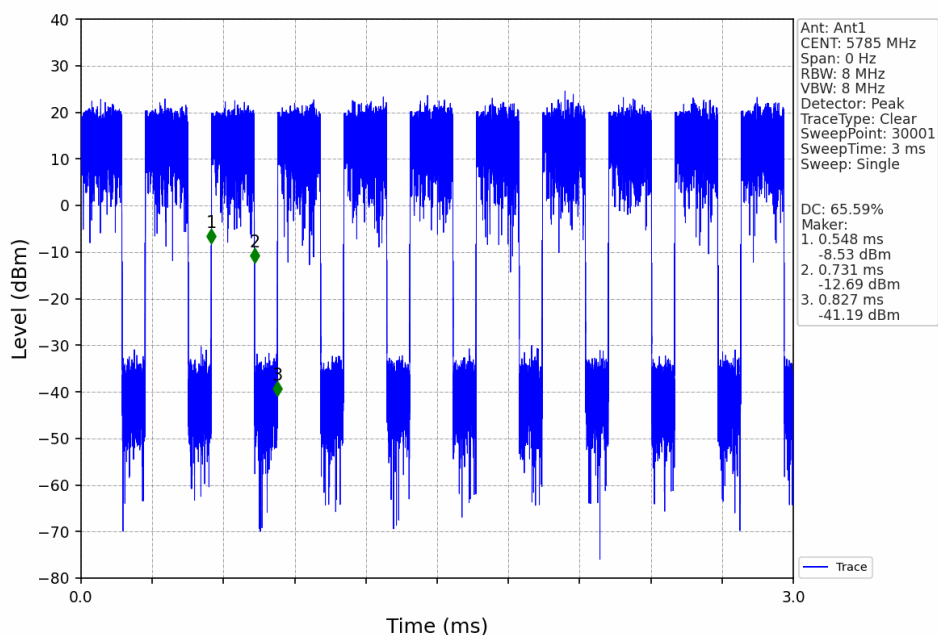
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



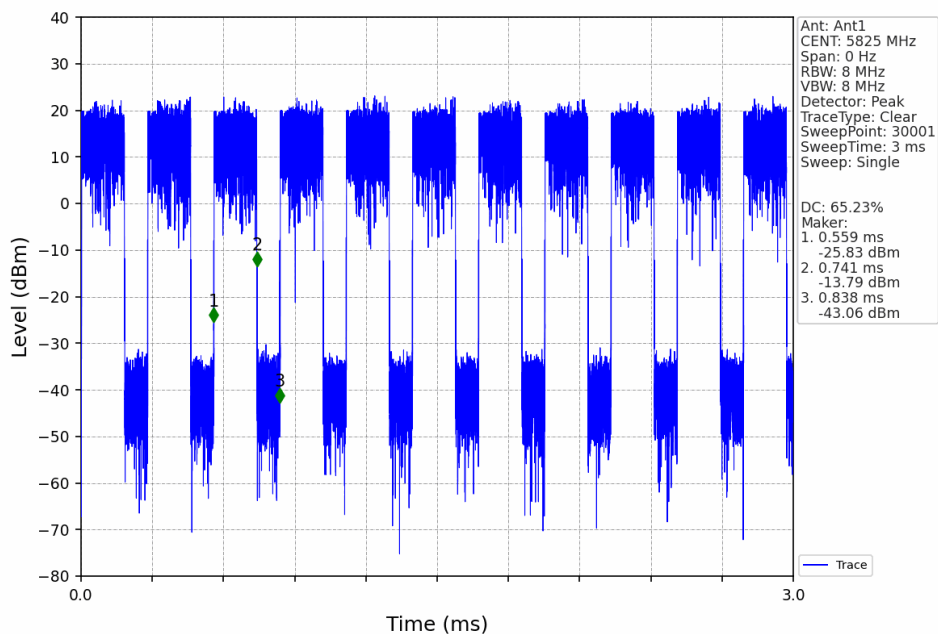
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



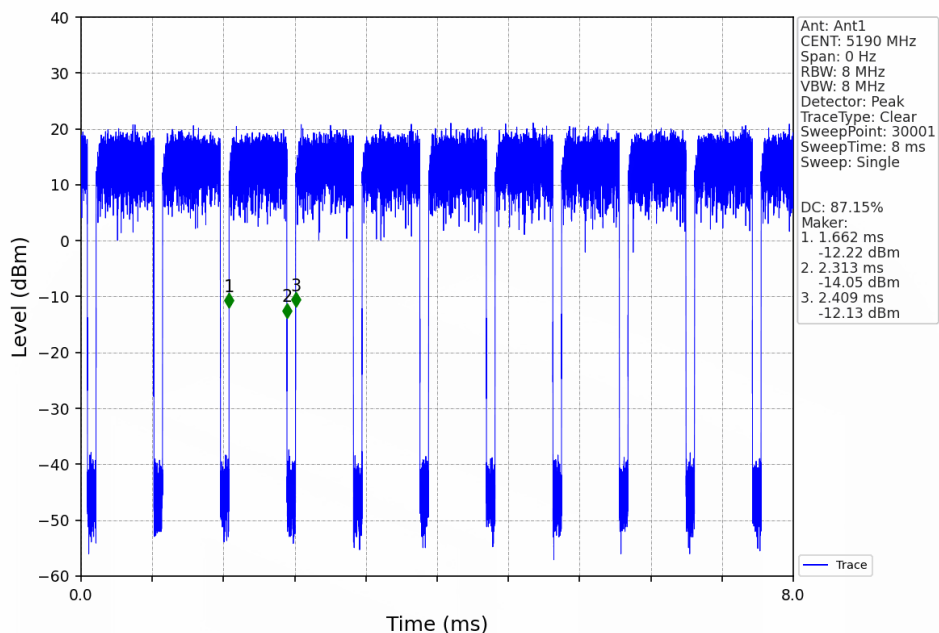
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



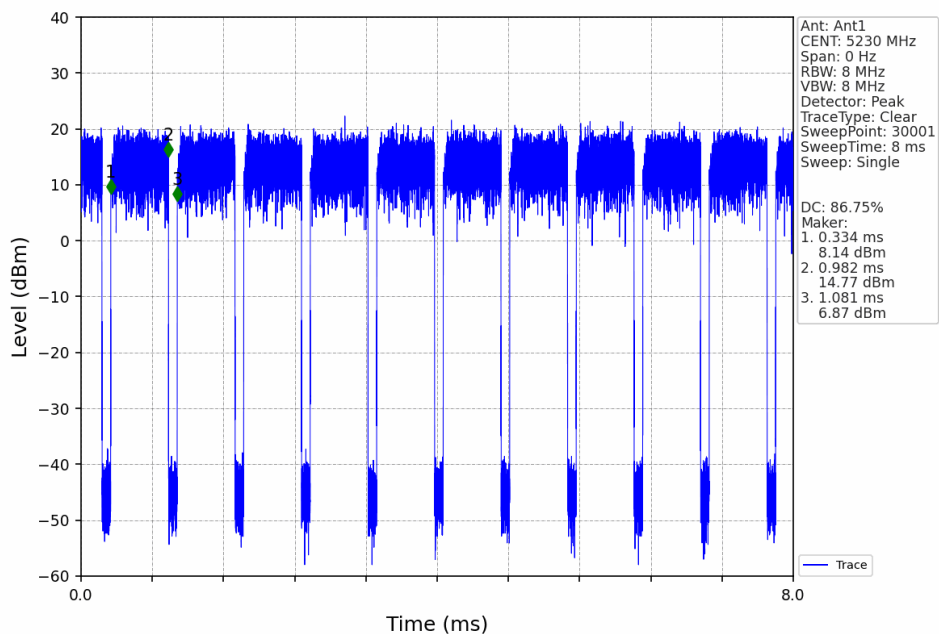
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



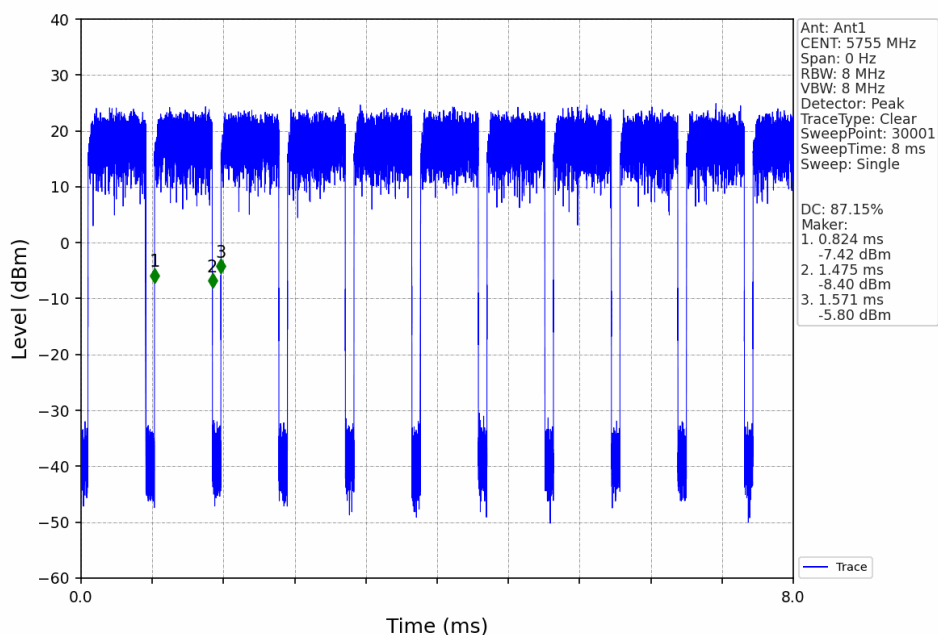
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



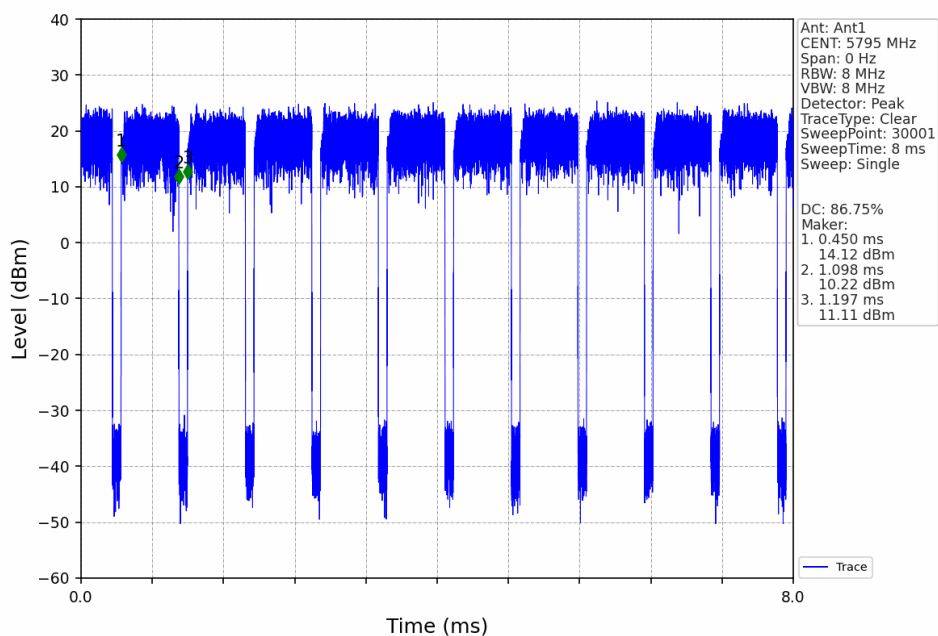
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



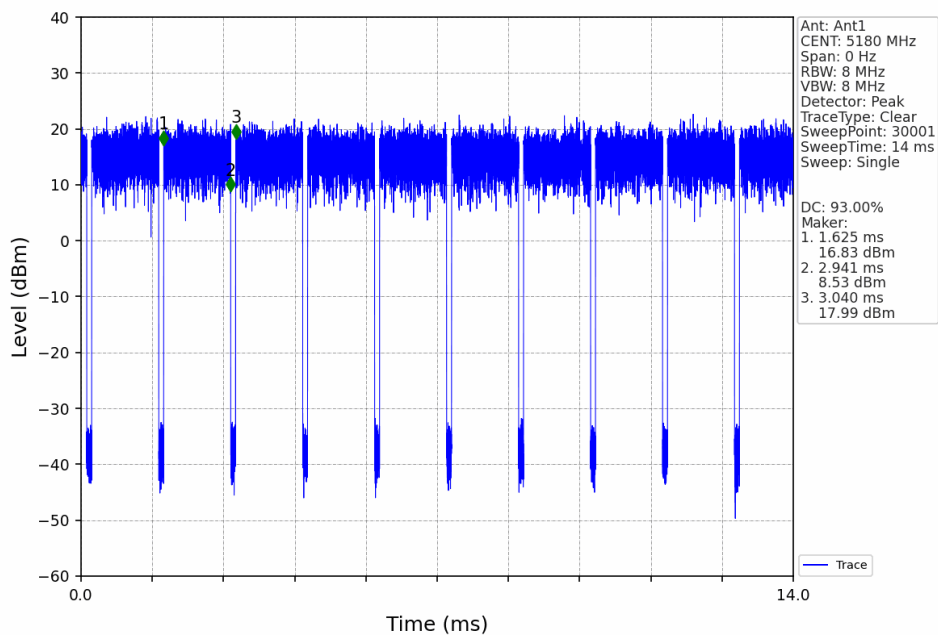
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



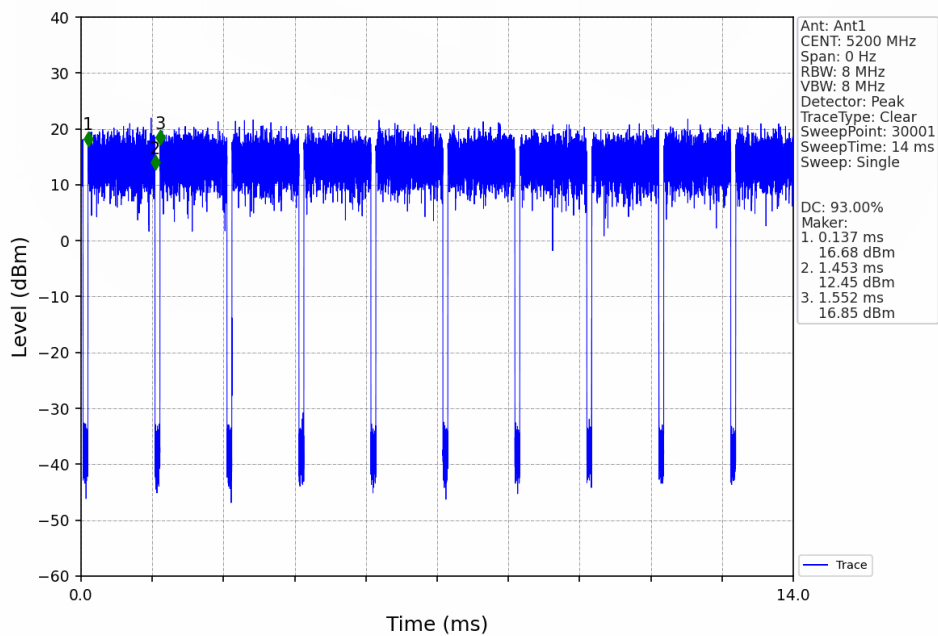
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

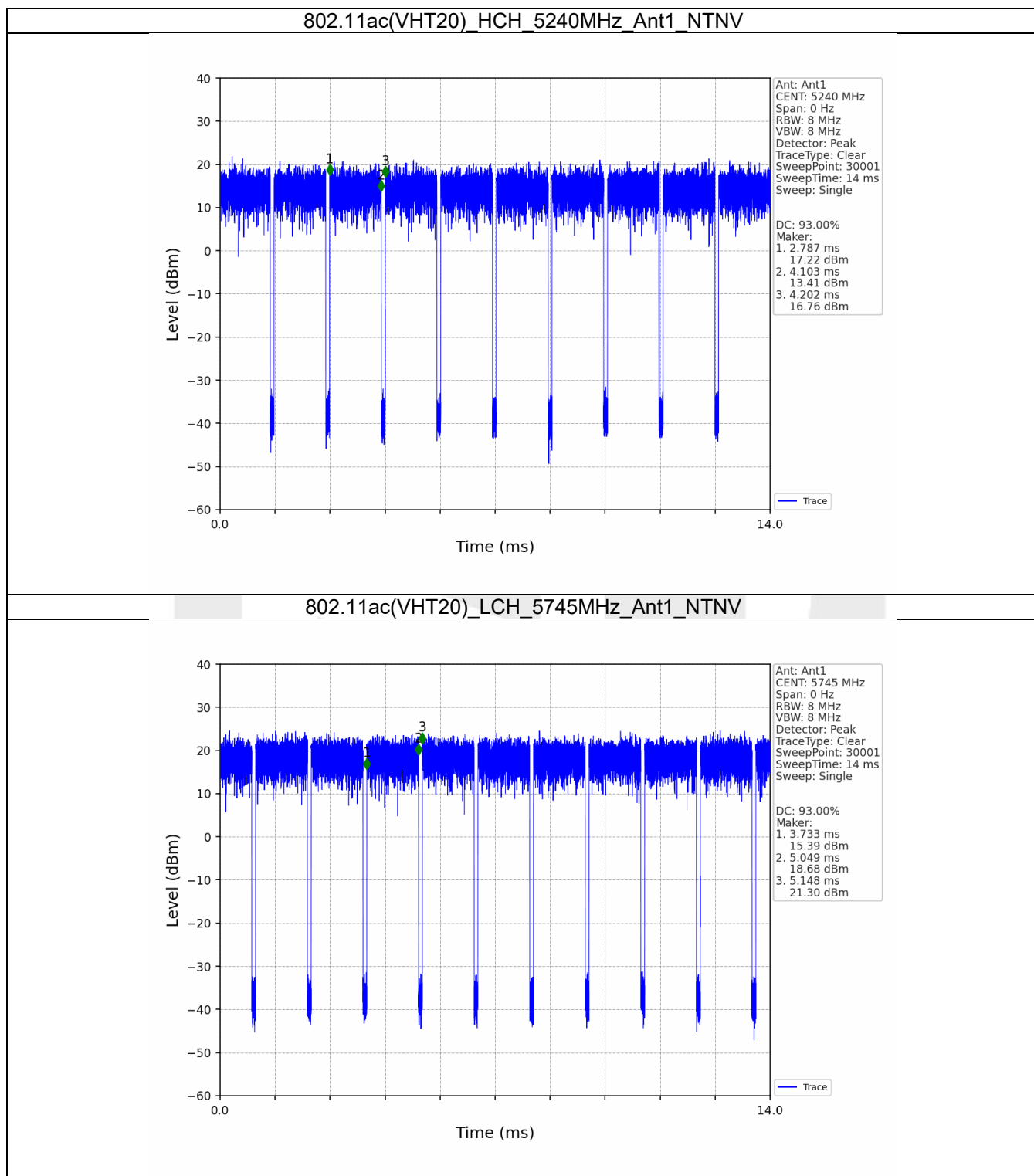


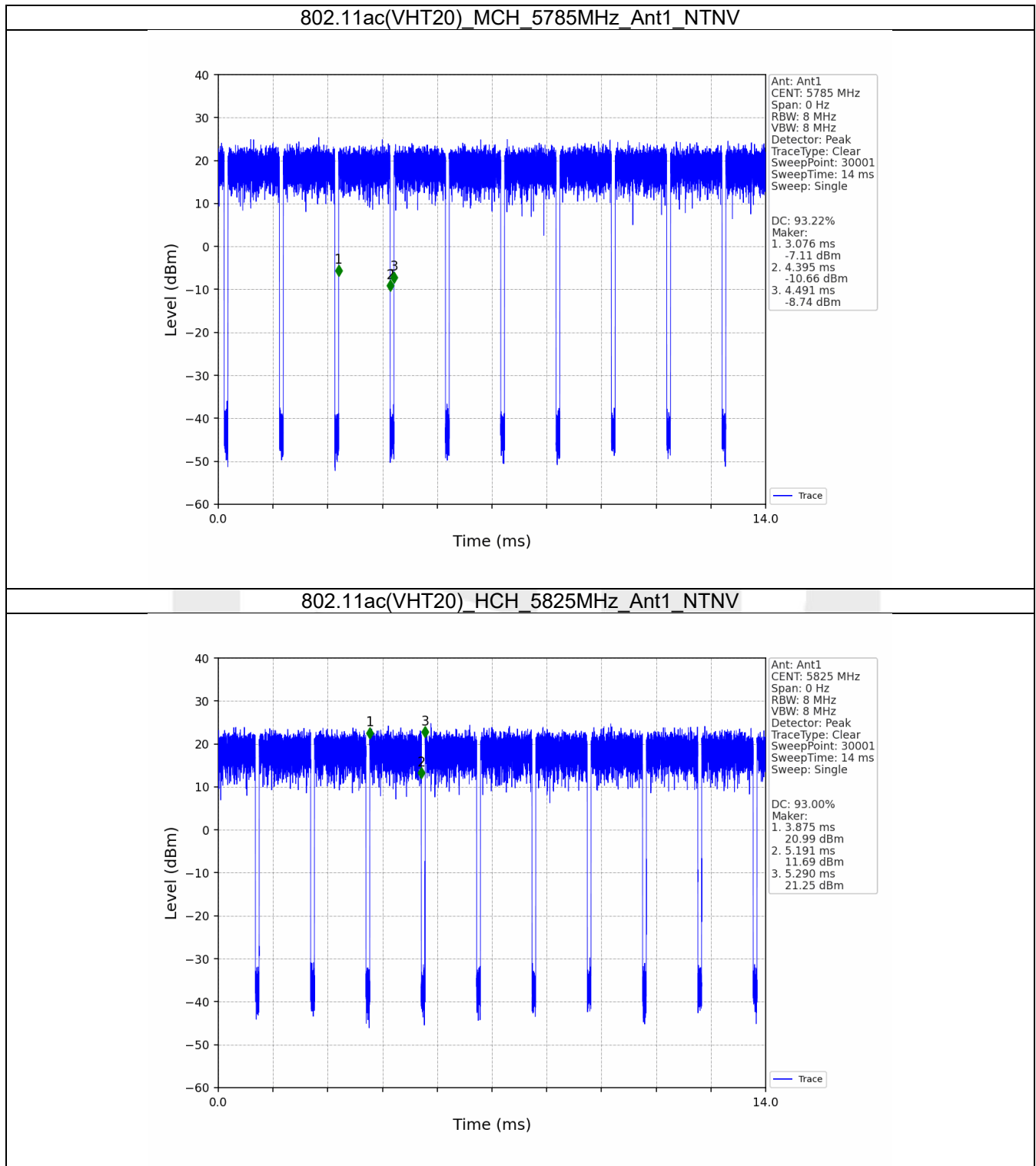
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



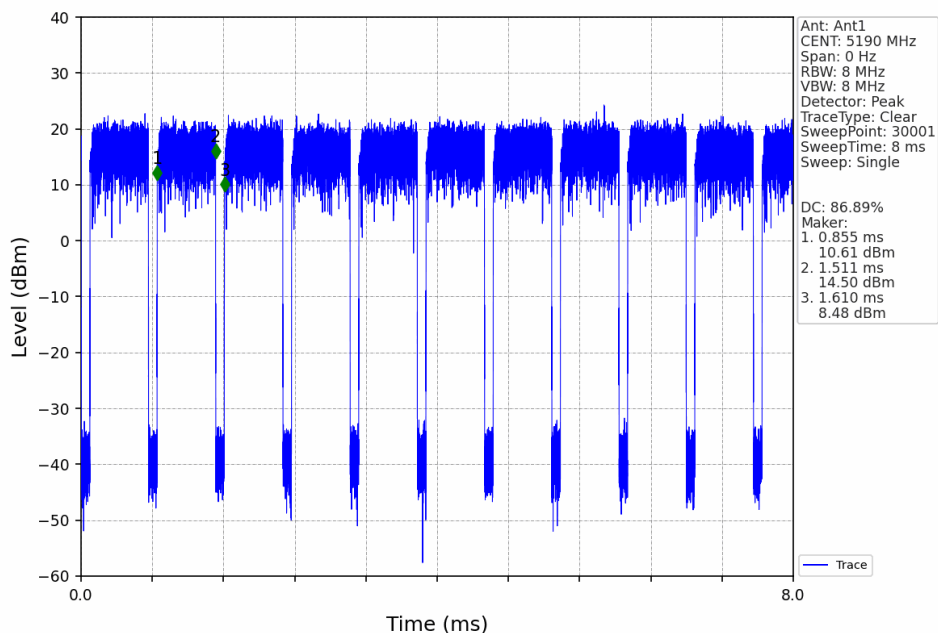
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



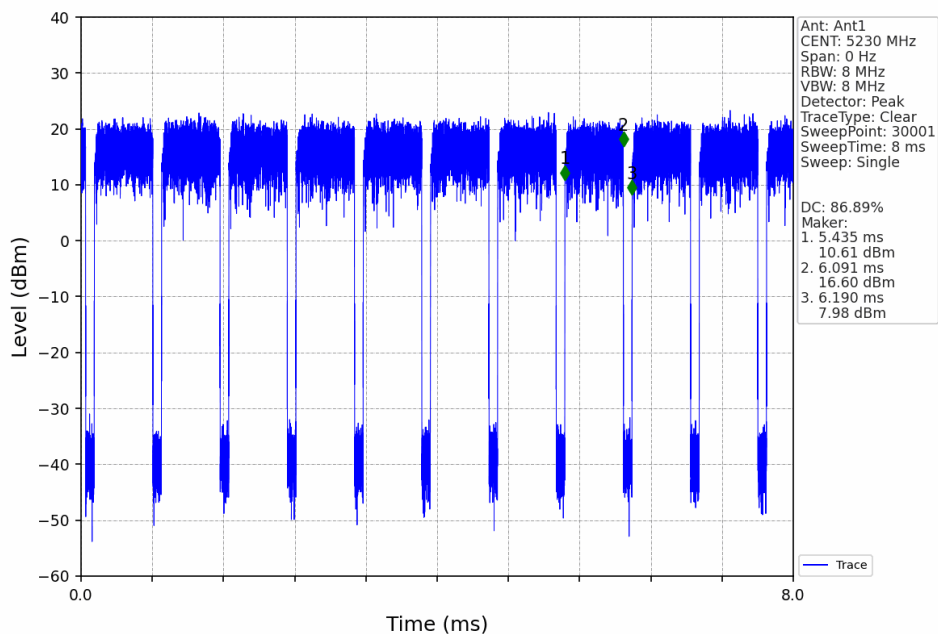




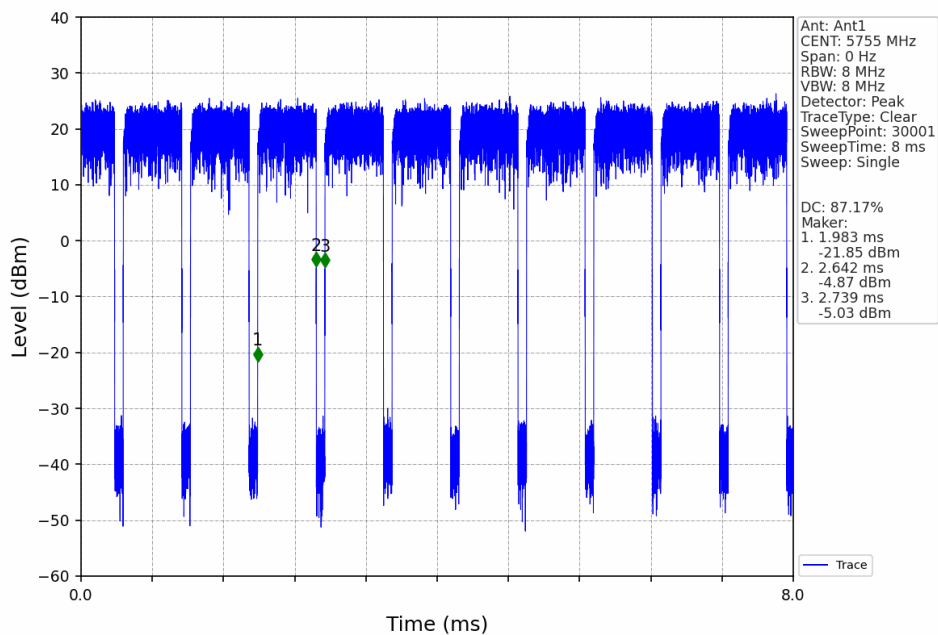
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



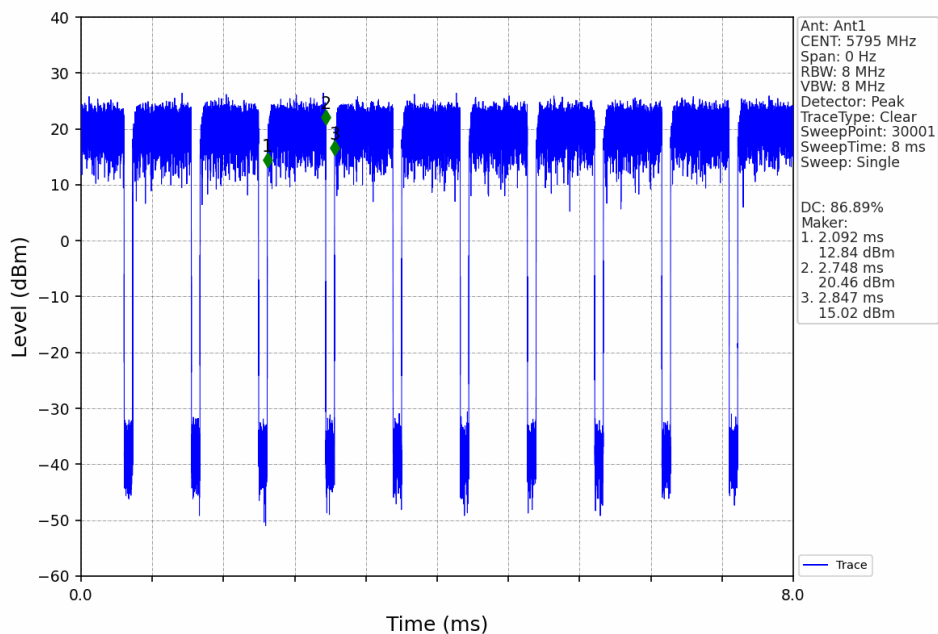
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

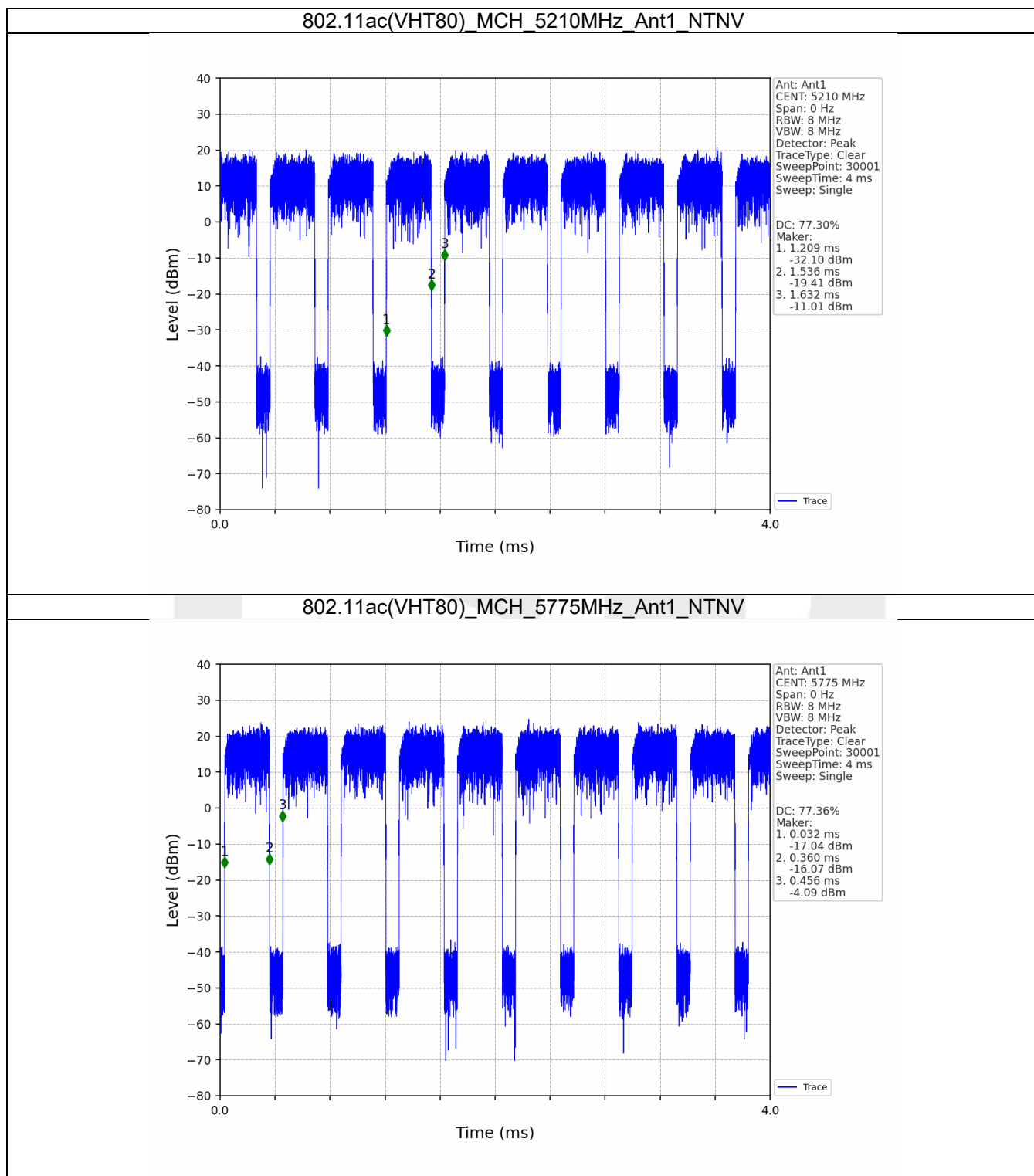


802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

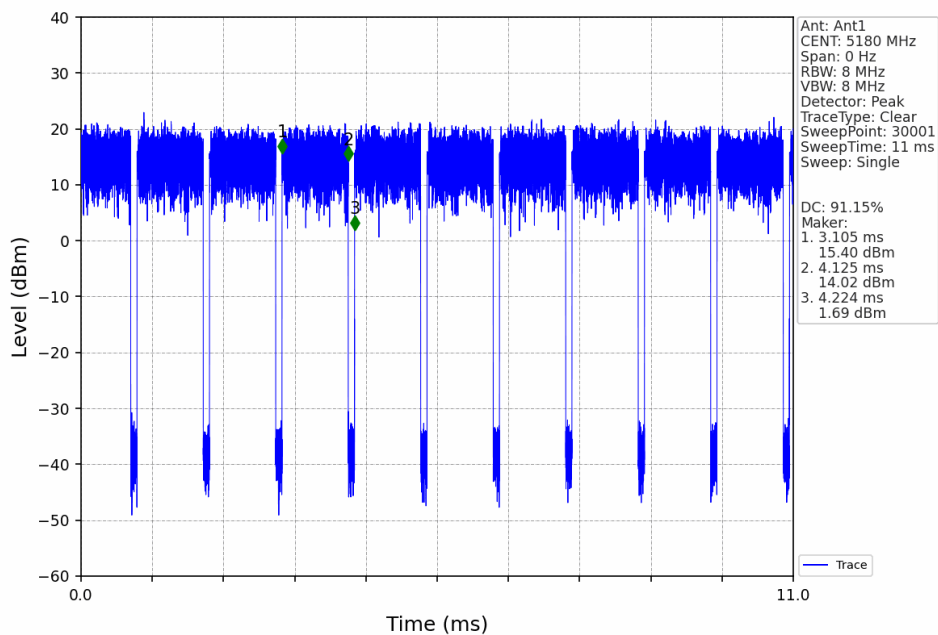


802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

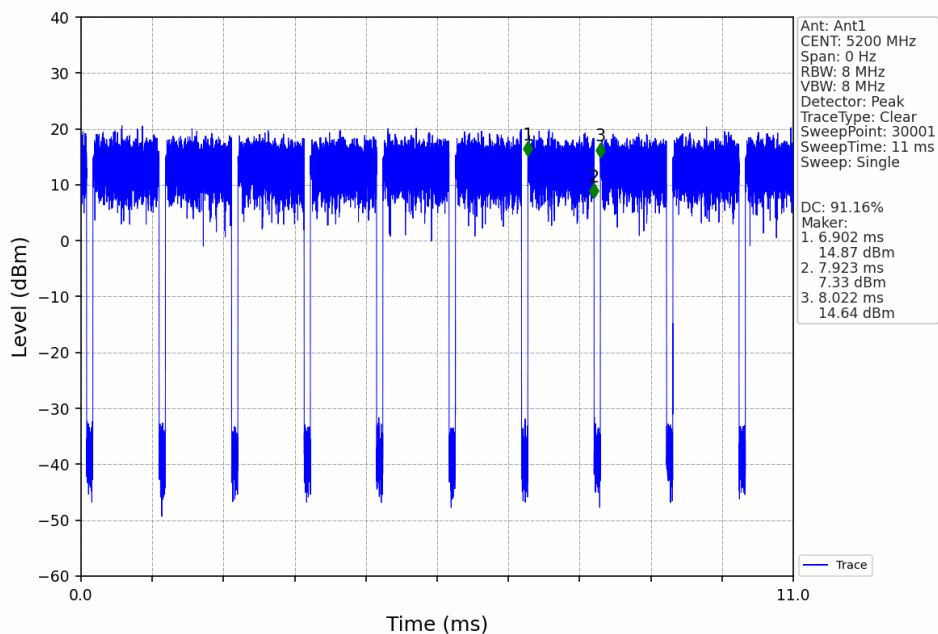


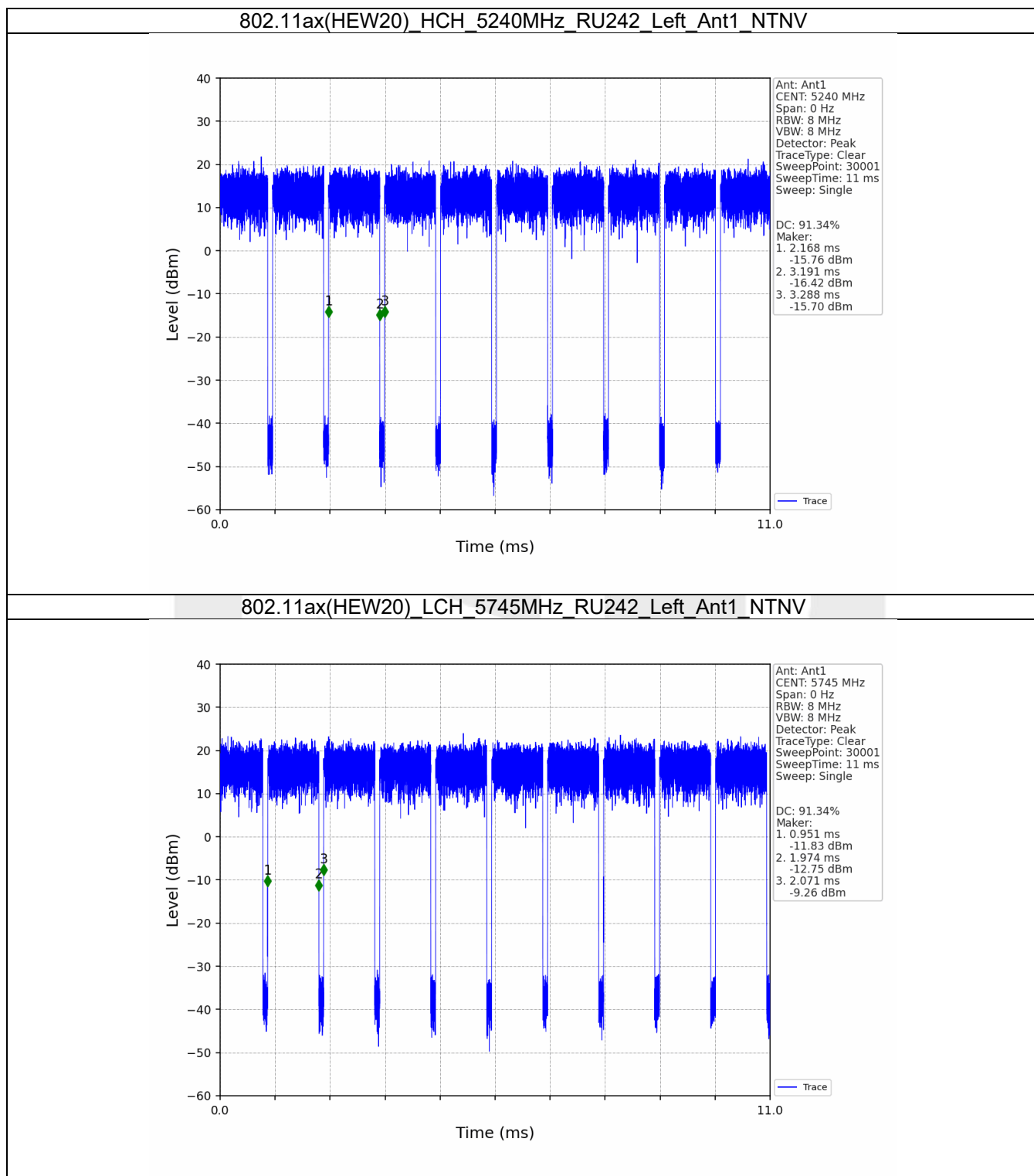


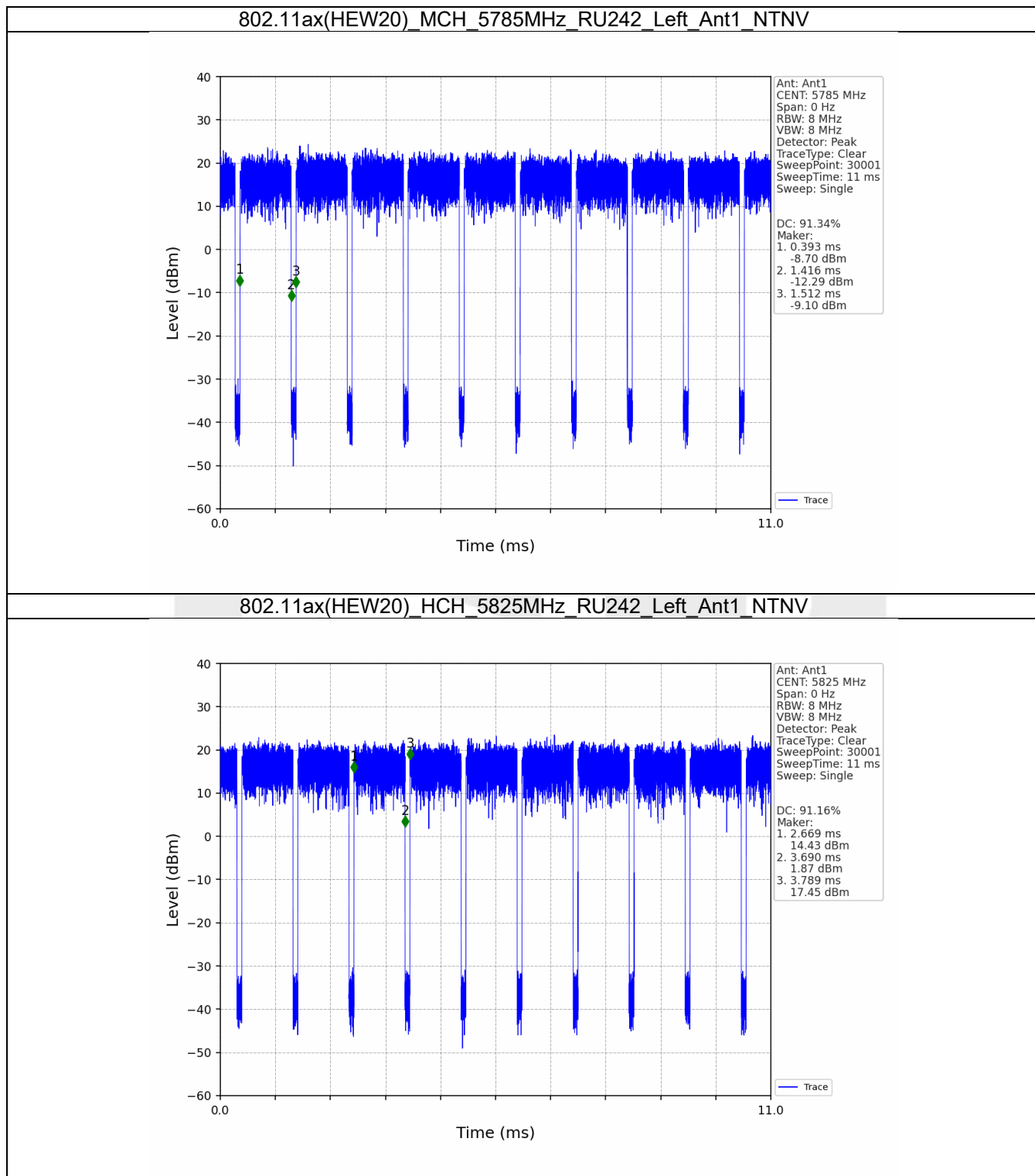
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



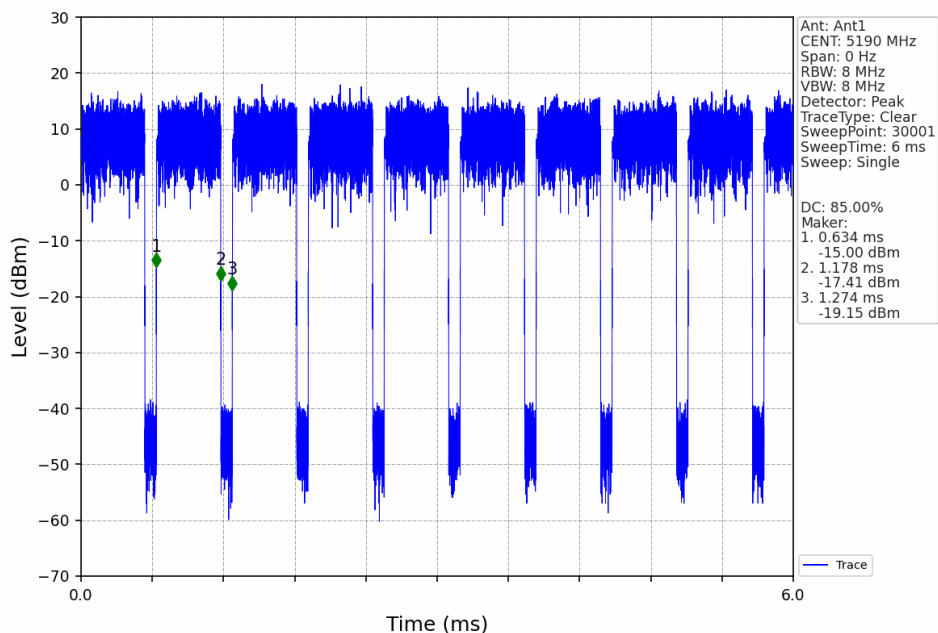
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



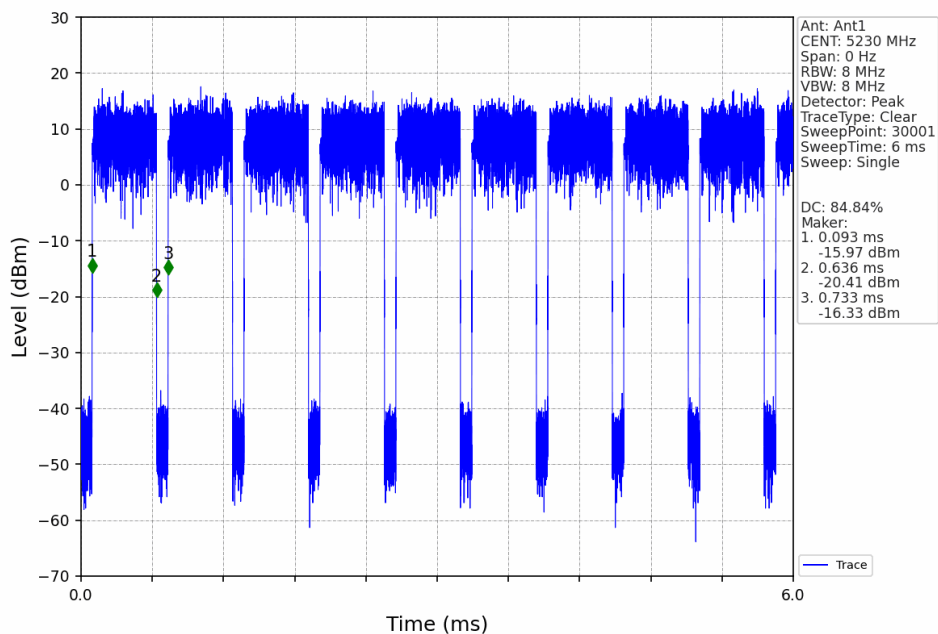




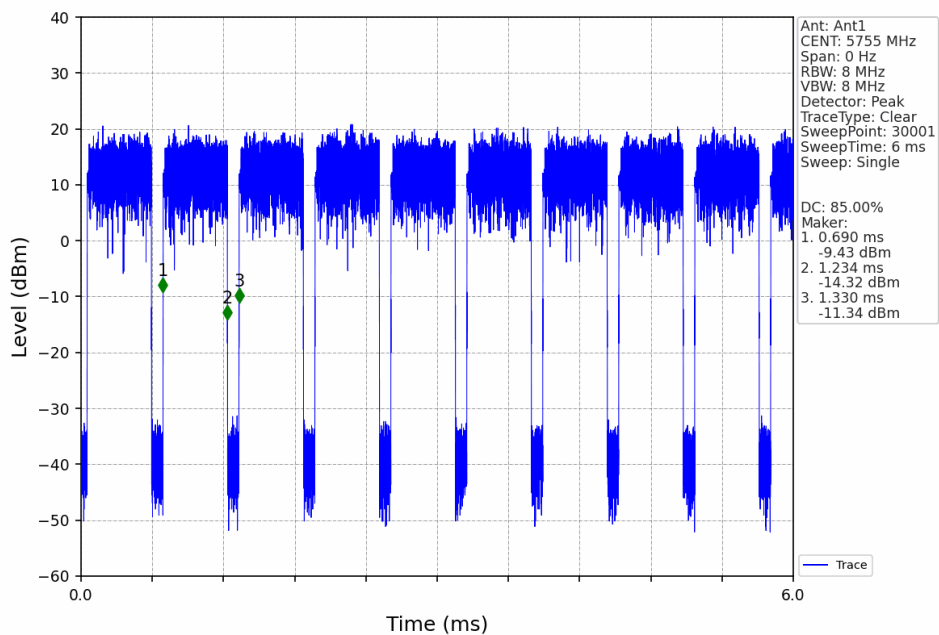
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



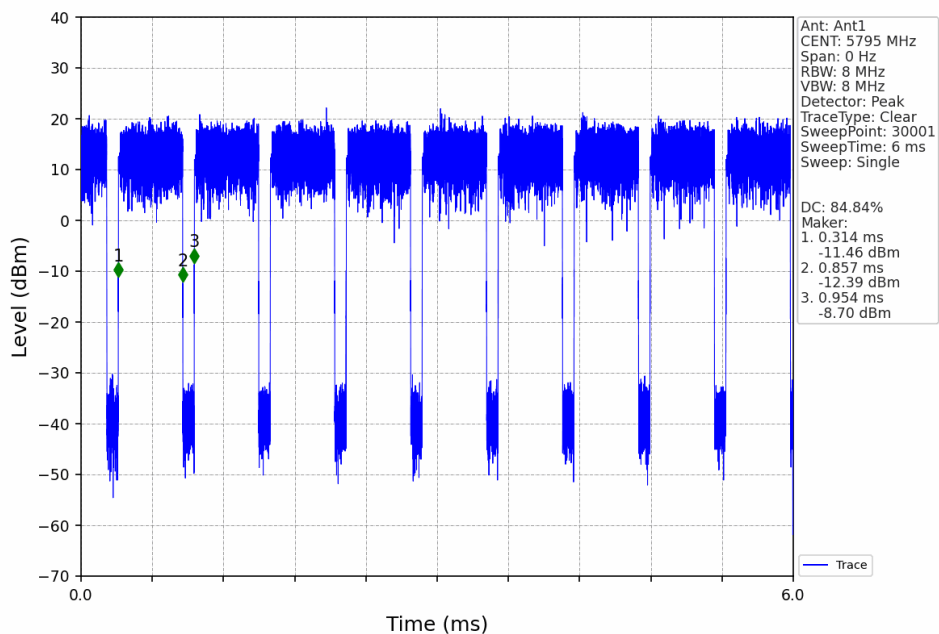
802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



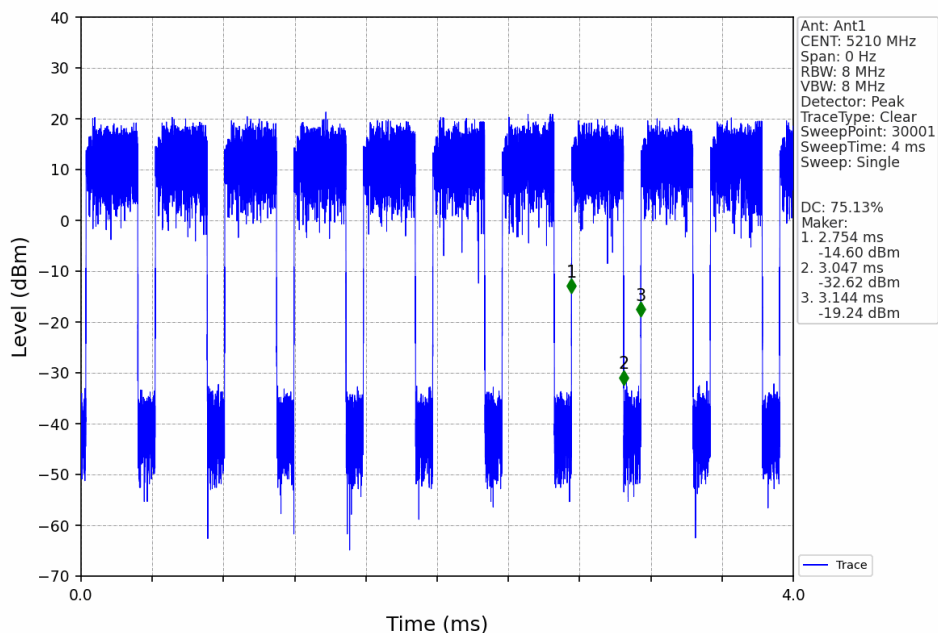
802.11ax(HEW40)_LCH_5755MHz_RU484_Left_Ant1_NTNV



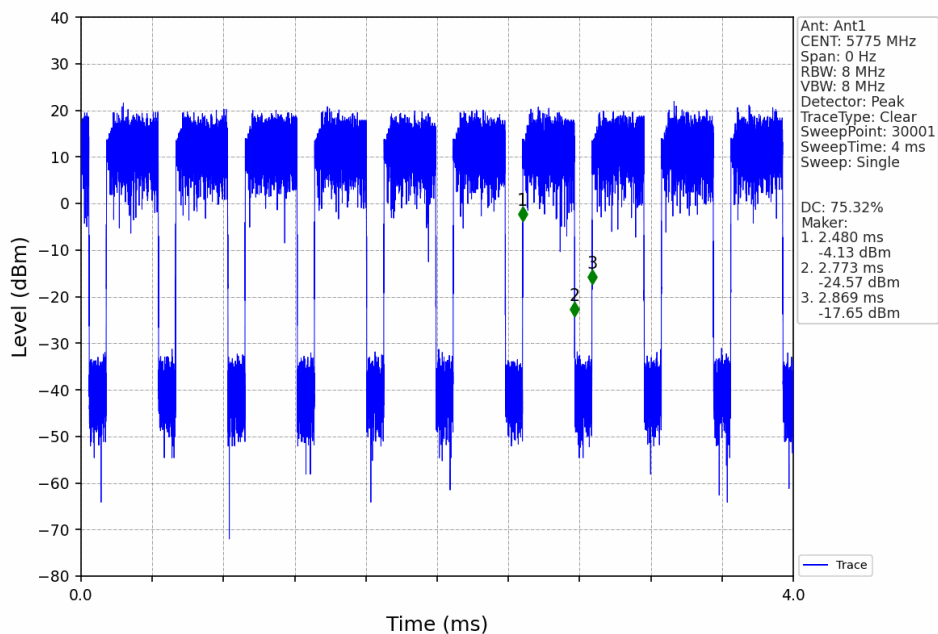
802.11ax(HEW40)_HCH_5795MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_RU996_Left_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	17.485	/	Pass
		5200	/	/	1	17.595	/	Pass
		5240	/	/	1	17.573	/	Pass
		5745	/	/	1	17.568	/	Pass
		5785	/	/	1	17.474	/	Pass
		5825	/	/	1	17.573	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	18.618	/	Pass
		5200	/	/	1	18.578	/	Pass
		5240	/	/	1	18.619	/	Pass
		5745	/	/	1	18.761	/	Pass
		5785	/	/	1	18.704	/	Pass
		5825	/	/	1	18.717	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	37.293	/	Pass
		5230	/	/	1	36.878	/	Pass
		5755	/	/	1	43.714	/	Pass
		5795	/	/	1	43.544	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	18.770	/	Pass
		5200	/	/	1	18.780	/	Pass
		5240	/	/	1	18.590	/	Pass
		5745	/	/	1	18.735	/	Pass
		5785	/	/	1	18.605	/	Pass
		5825	/	/	1	18.667	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	48.481	/	Pass
		5230	/	/	1	44.558	/	Pass
		5755	/	/	1	53.068	/	Pass
		5795	/	/	1	51.374	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	82.829	/	Pass
		5775	/	/	1	88.307	/	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	1	19.260	/	Pass
		5200	RU242	Left	1	19.285	/	Pass
		5240	RU242	Left	1	19.220	/	Pass
		5745	RU242	Left	1	19.216	/	Pass
		5785	RU242	Left	1	19.182	/	Pass
		5825	RU242	Left	1	19.166	/	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	1	38.418	/	Pass
		5230	RU484	Left	1	38.180	/	Pass
		5755	RU484	Left	1	39.357	/	Pass
		5795	RU484	Left	1	38.776	/	Pass
802.11ax (HEW80)	SISO	5210	RU996	Left	1	78.042	/	Pass
		5775	RU996	Left	1	79.038	/	Pass

2.1.2 26dB BW

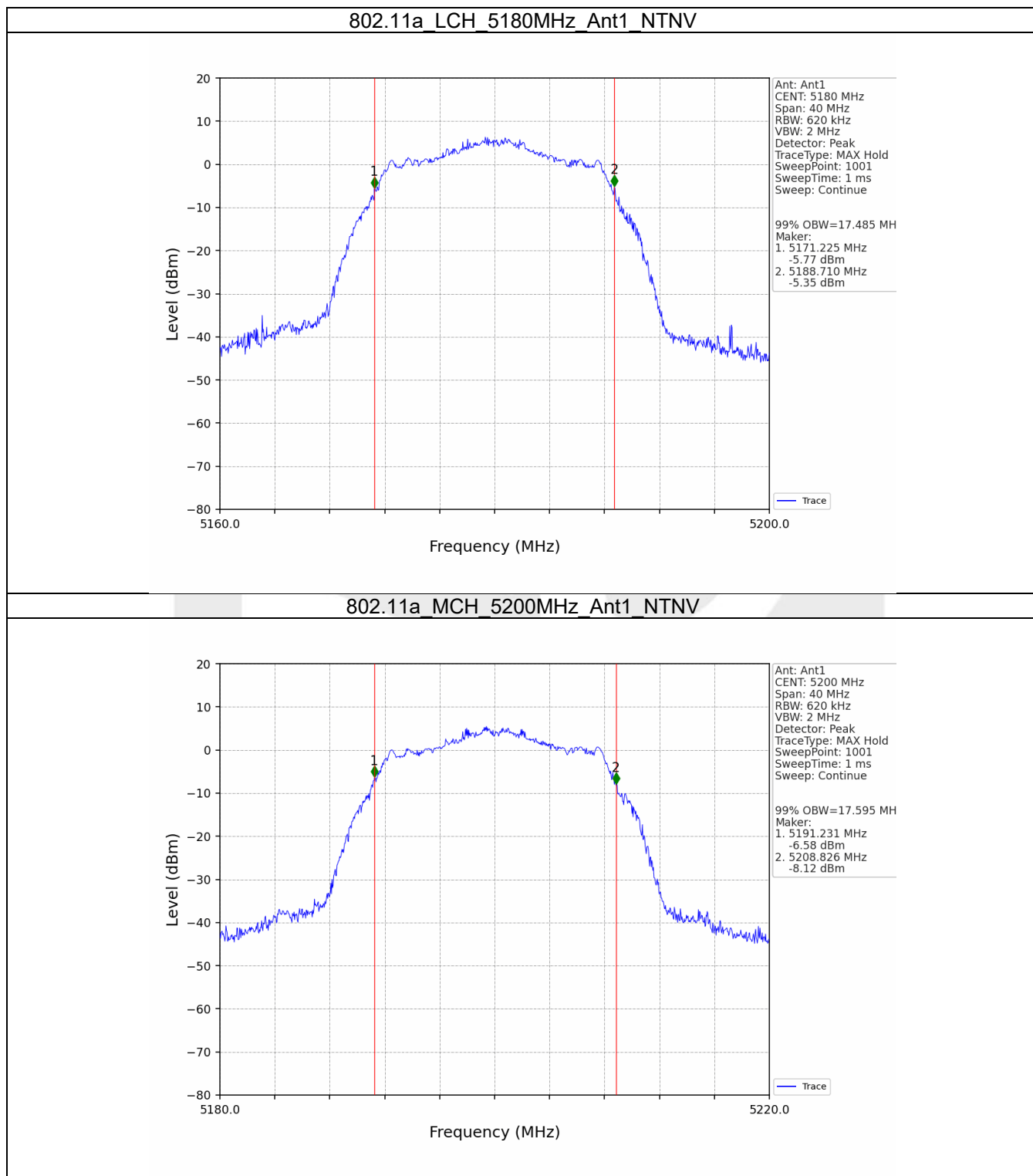
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	20.723	/	Pass
		5200	/	/	1	20.650	/	Pass
		5240	/	/	1	20.684	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	21.462	/	Pass
		5200	/	/	1	21.527	/	Pass
		5240	/	/	1	21.462	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	71.551	/	Pass
		5230	/	/	1	57.793	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	21.640	/	Pass
		5200	/	/	1	21.166	/	Pass
		5240	/	/	1	21.117	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	95.460	/	Pass
		5230	/	/	1	76.717	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	76.302	/	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	1	21.422	/	Pass
		5200	RU242	Left	1	21.606	/	Pass
		5240	RU242	Left	1	21.219	/	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	1	51.646	/	Pass
		5230	RU484	Left	1	56.532	/	Pass
802.11ax (HEW80)	SISO	5210	RU996	Left	1	77.461	/	Pass

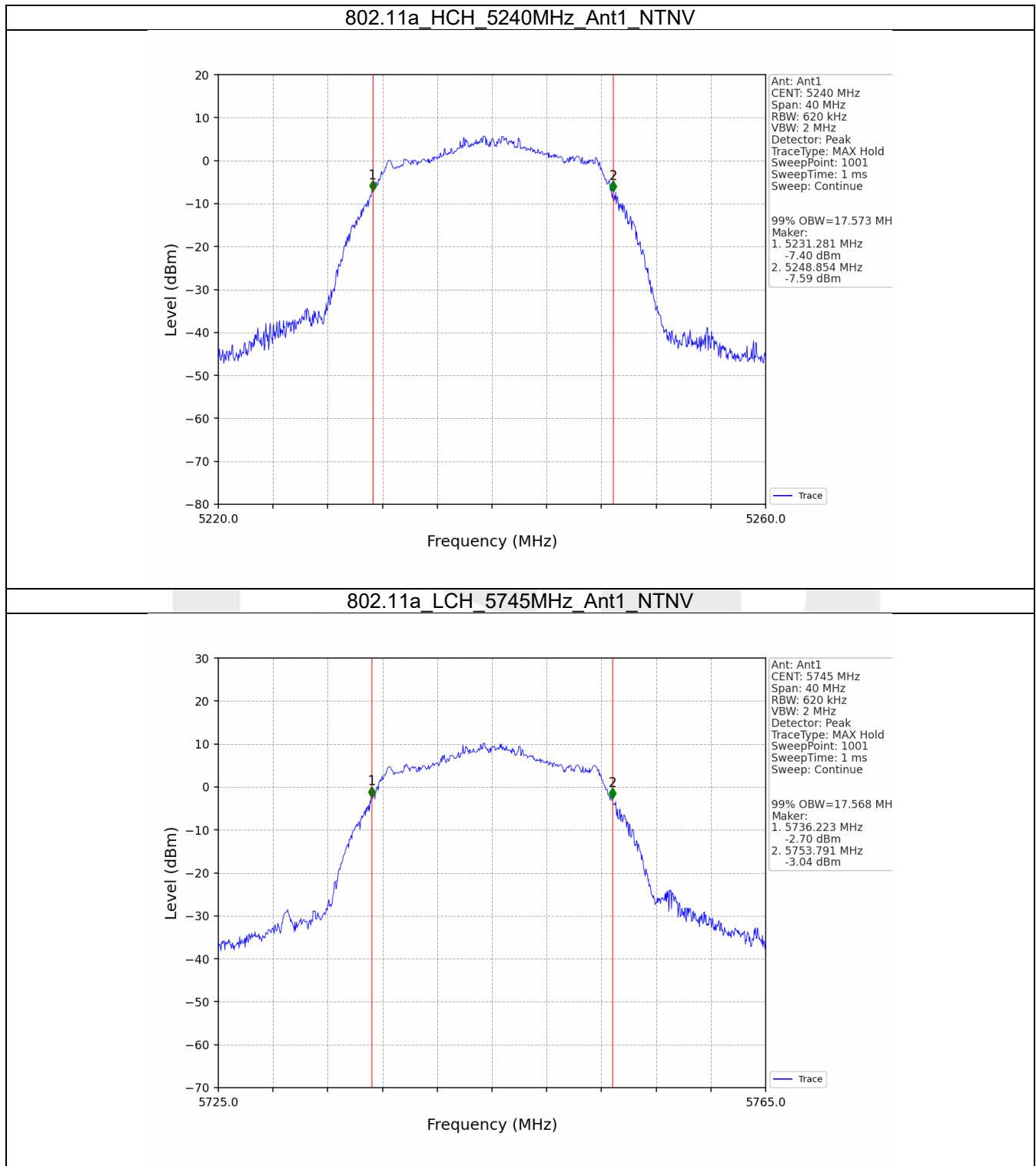
2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	15.227	>=0.5	Pass
		5785	/	/	1	15.228	>=0.5	Pass
		5825	/	/	1	15.232	>=0.5	Pass
802.11n (HT20)	SISO	5745	/	/	1	17.783	>=0.5	Pass
		5785	/	/	1	17.746	>=0.5	Pass
		5825	/	/	1	17.730	>=0.5	Pass
802.11n (HT40)	SISO	5755	/	/	1	35.186	>=0.5	Pass
		5795	/	/	1	35.186	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	15.229	>=0.5	Pass
		5785	/	/	1	15.225	>=0.5	Pass
		5825	/	/	1	15.232	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	35.212	>=0.5	Pass
		5795	/	/	1	35.177	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	/	/	1	75.189	>=0.5	Pass
802.11ax (HEW20)	SISO	5745	RU242	Left	1	18.546	>=0.5	Pass
		5785	RU242	Left	1	18.530	>=0.5	Pass
		5825	RU242	Left	1	18.222	>=0.5	Pass
802.11ax (HEW40)	SISO	5755	RU484	Left	1	37.730	>=0.5	Pass
		5795	RU484	Left	1	37.746	>=0.5	Pass
802.11ax (HEW80)	SISO	5775	RU996	Left	1	77.367	>=0.5	Pass

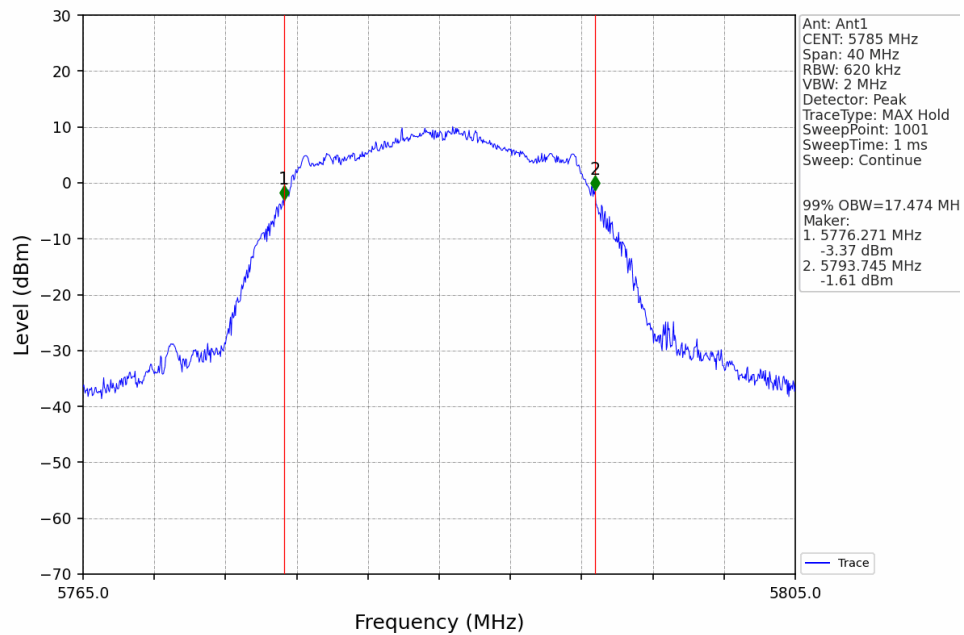
2.2 Test Graph

2.2.1 OBW

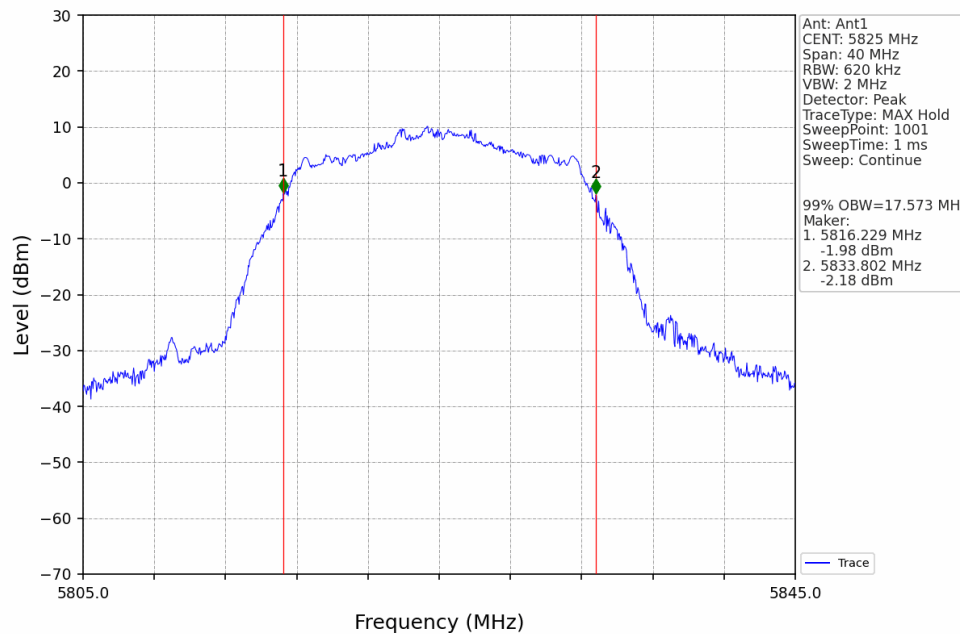


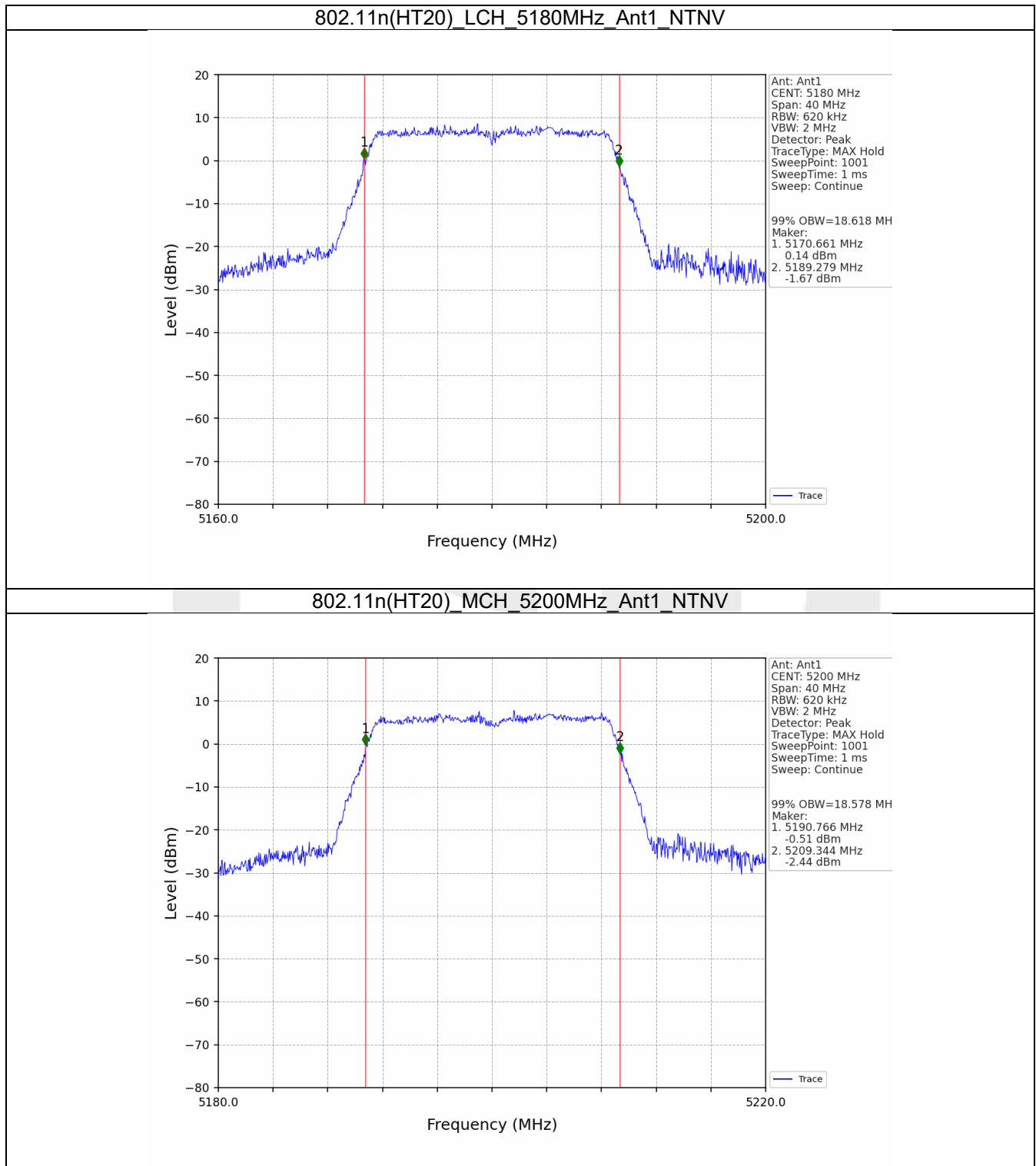


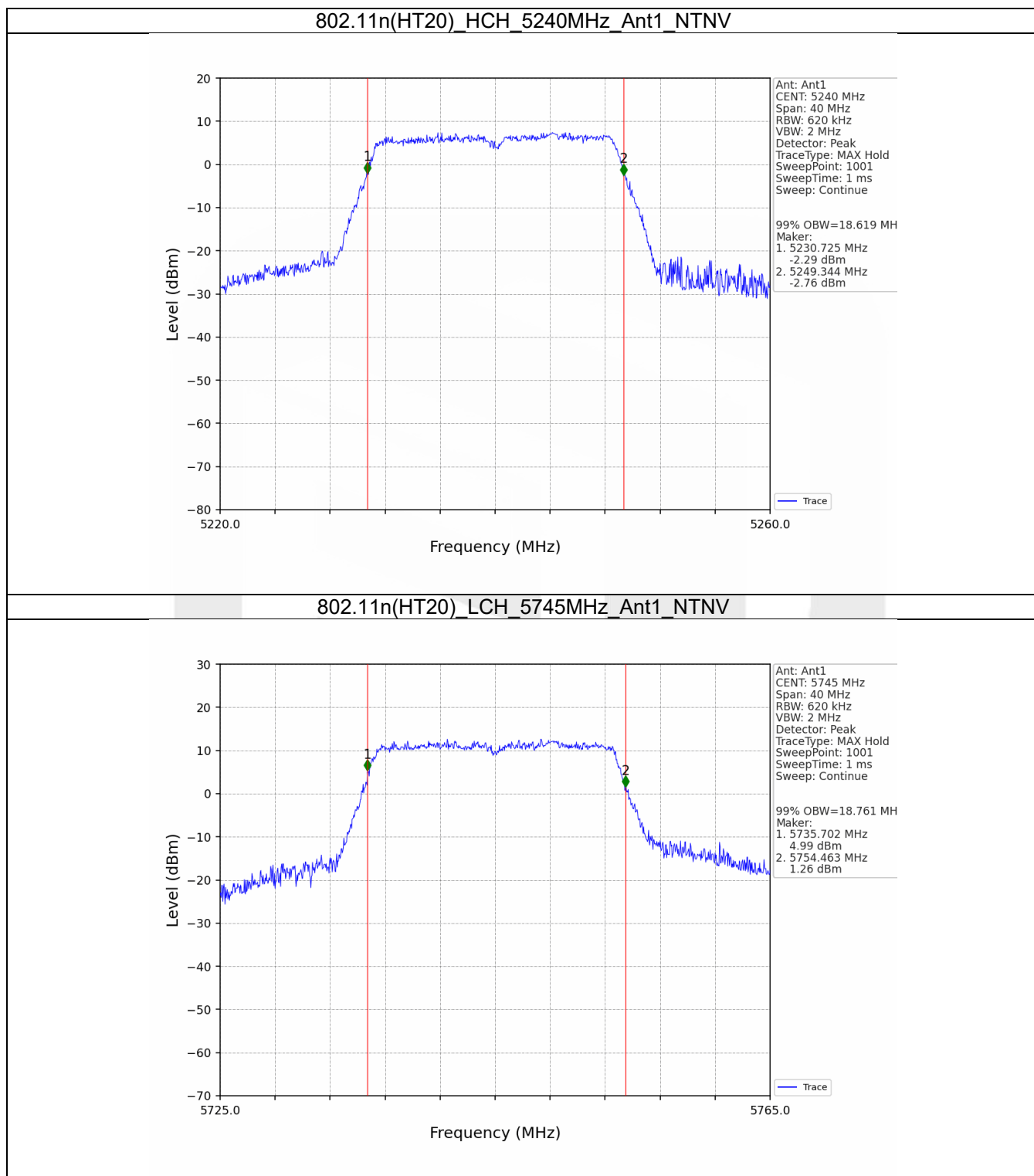
802.11a_MCH_5785MHz_Ant1_NTNV

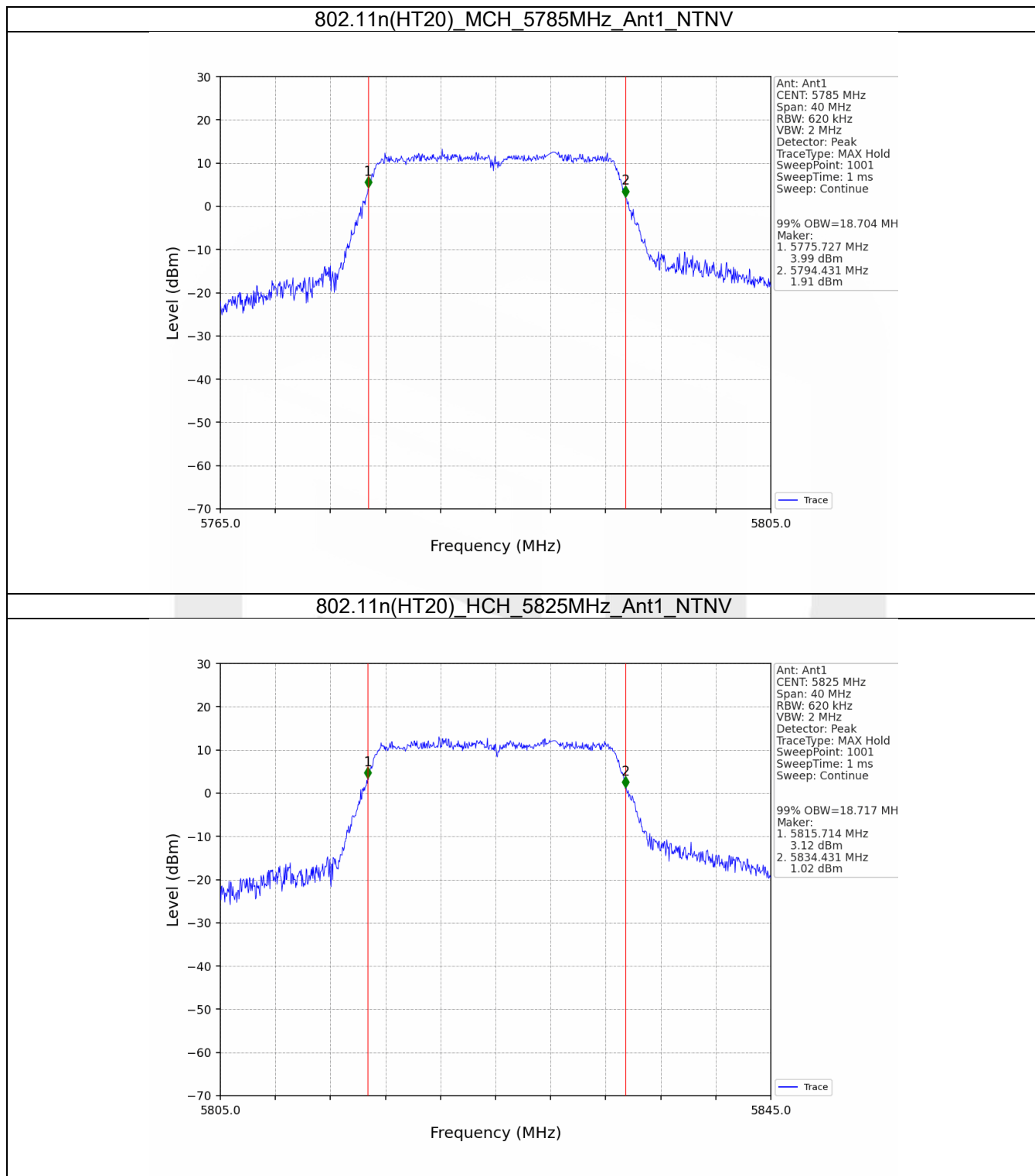


802.11a_HCH_5825MHz_Ant1_NTNV

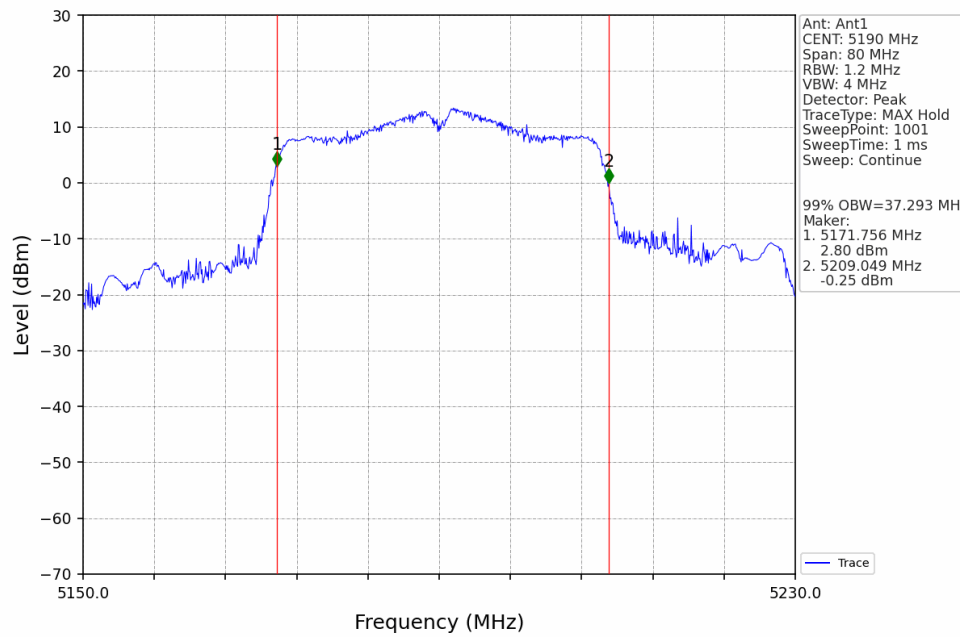




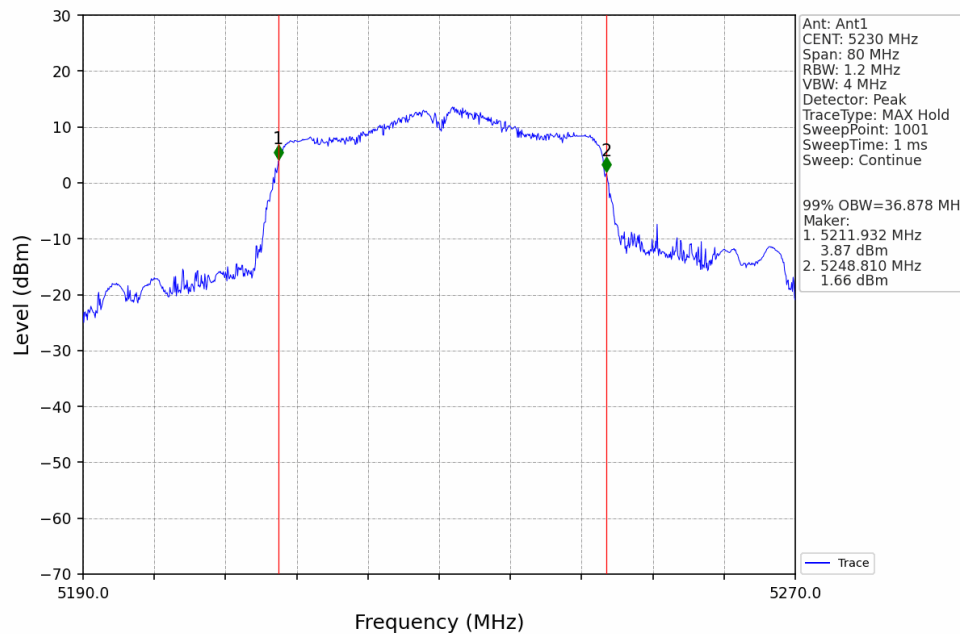




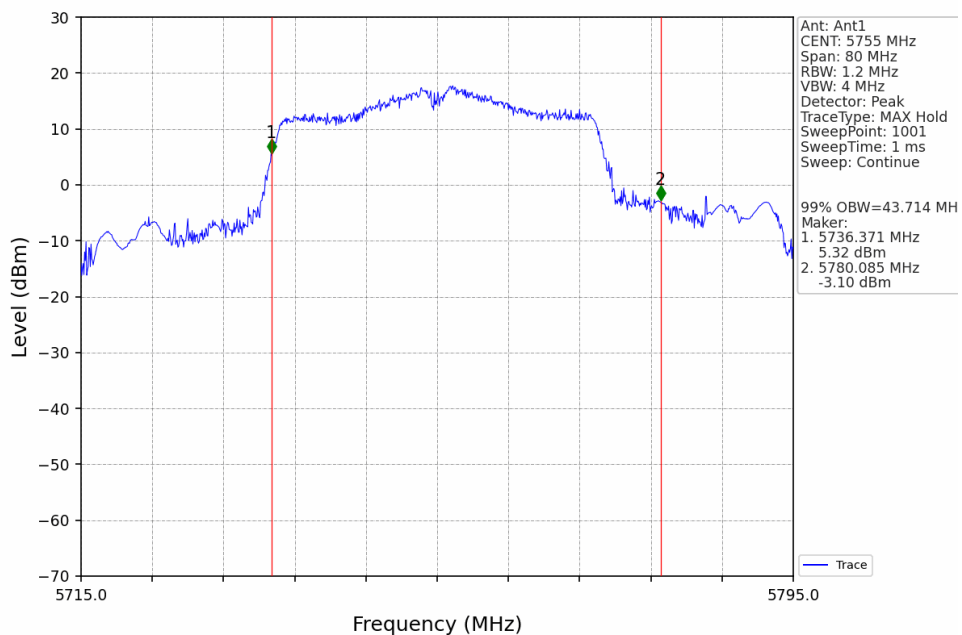
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



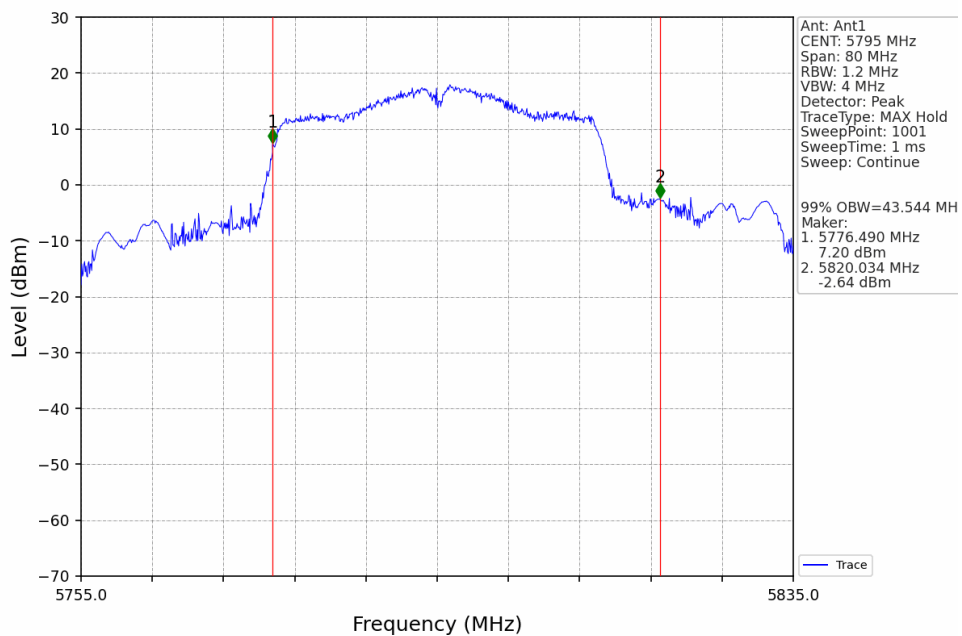
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

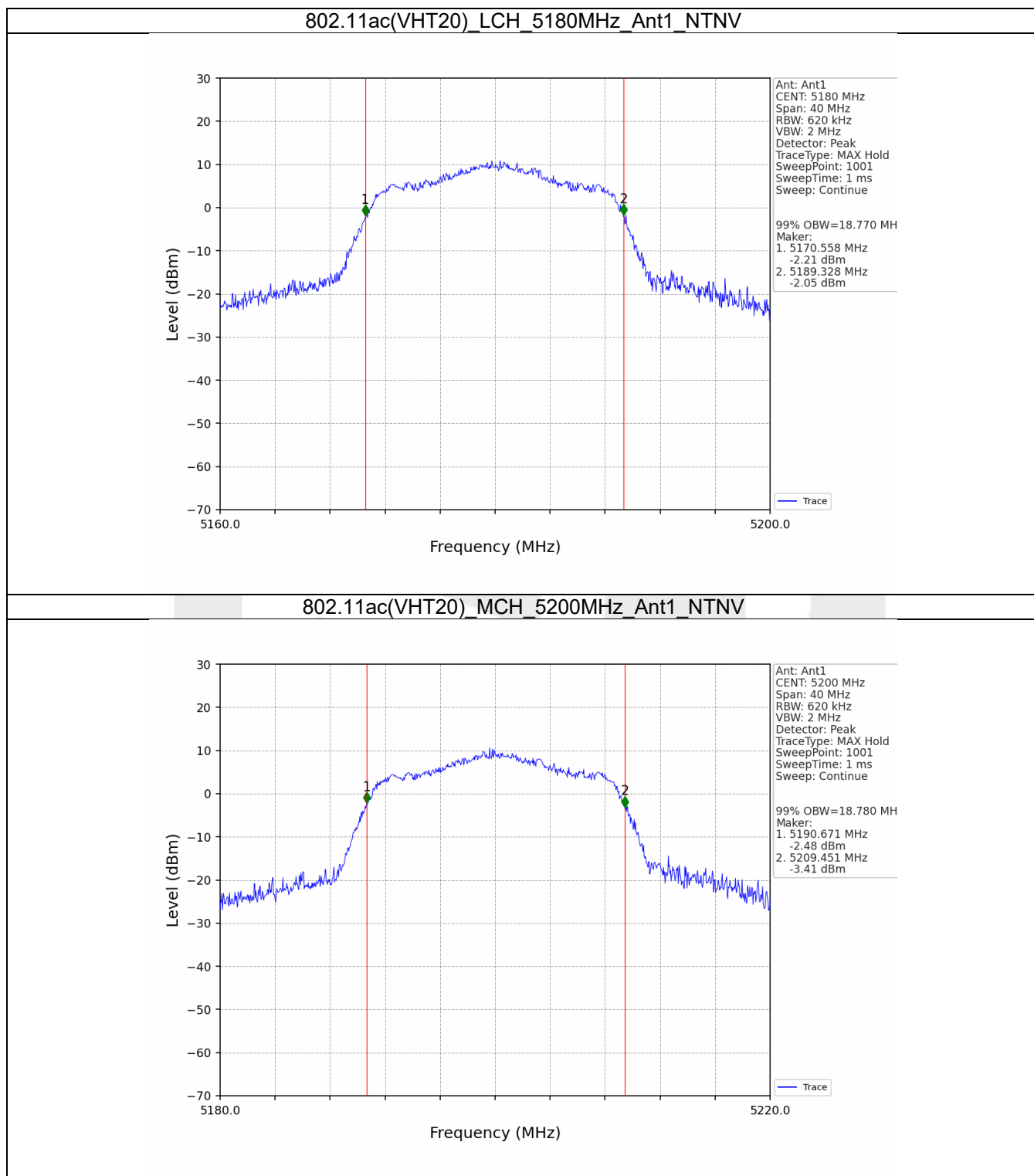


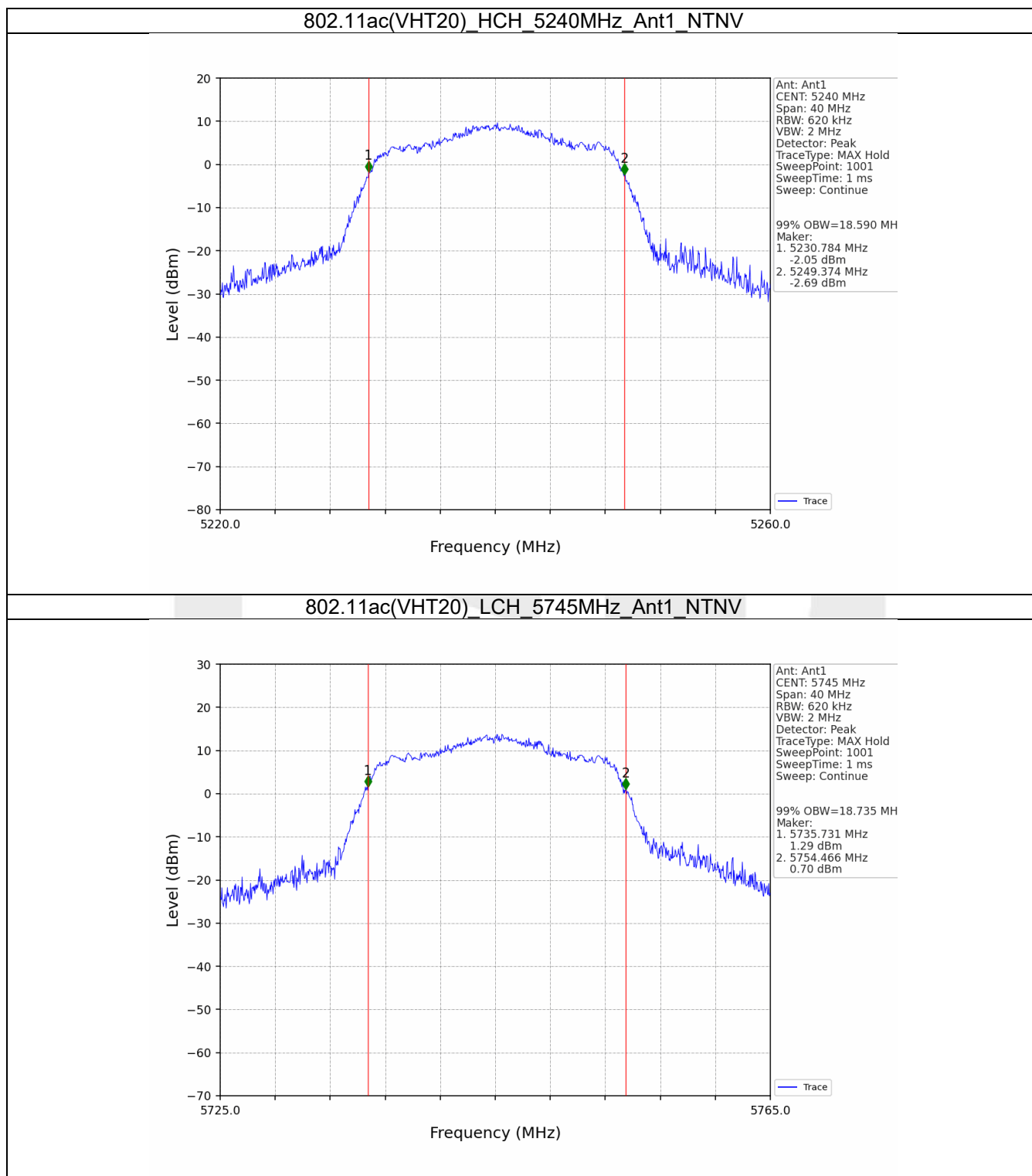
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

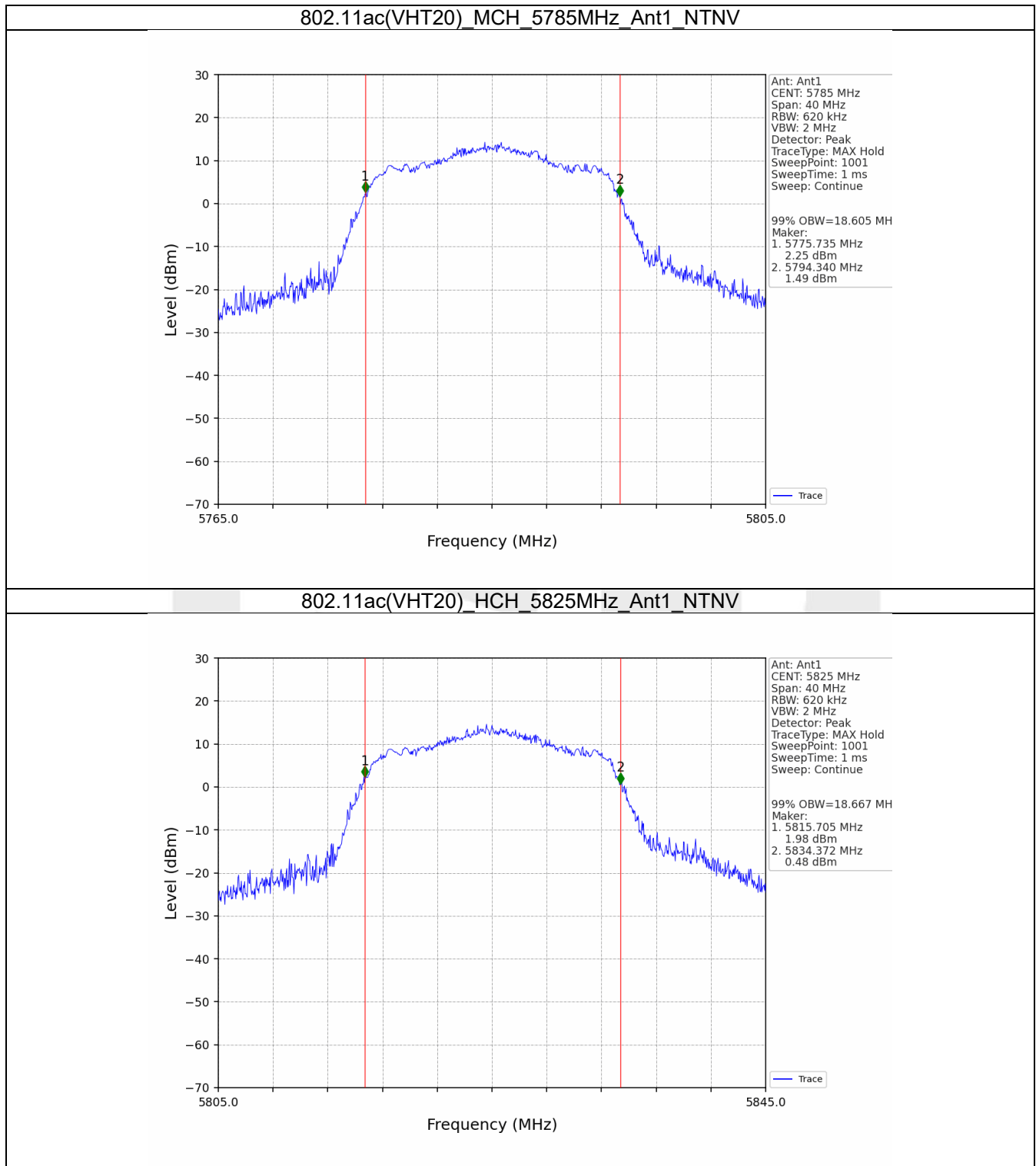


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

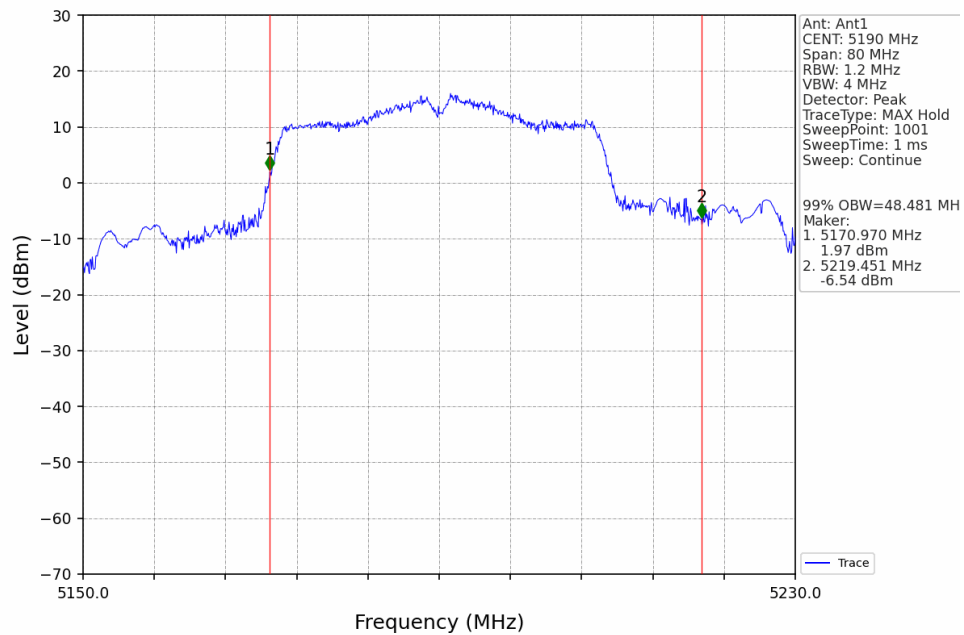




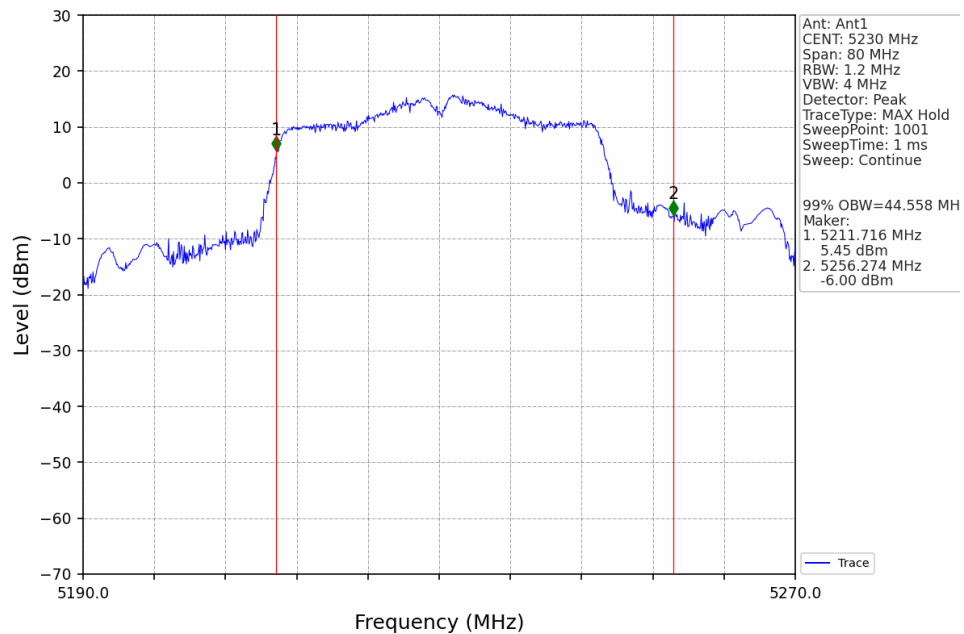


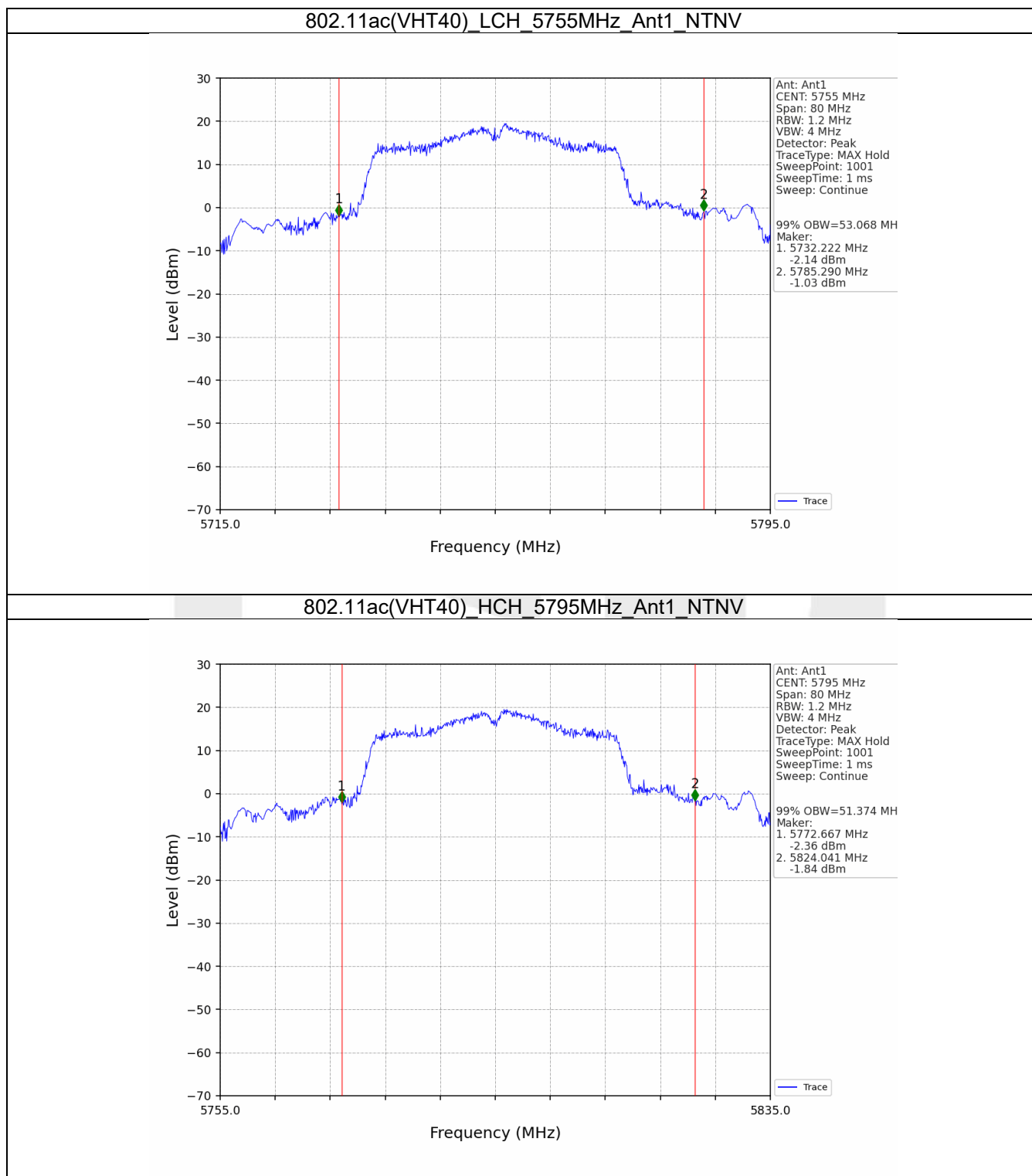


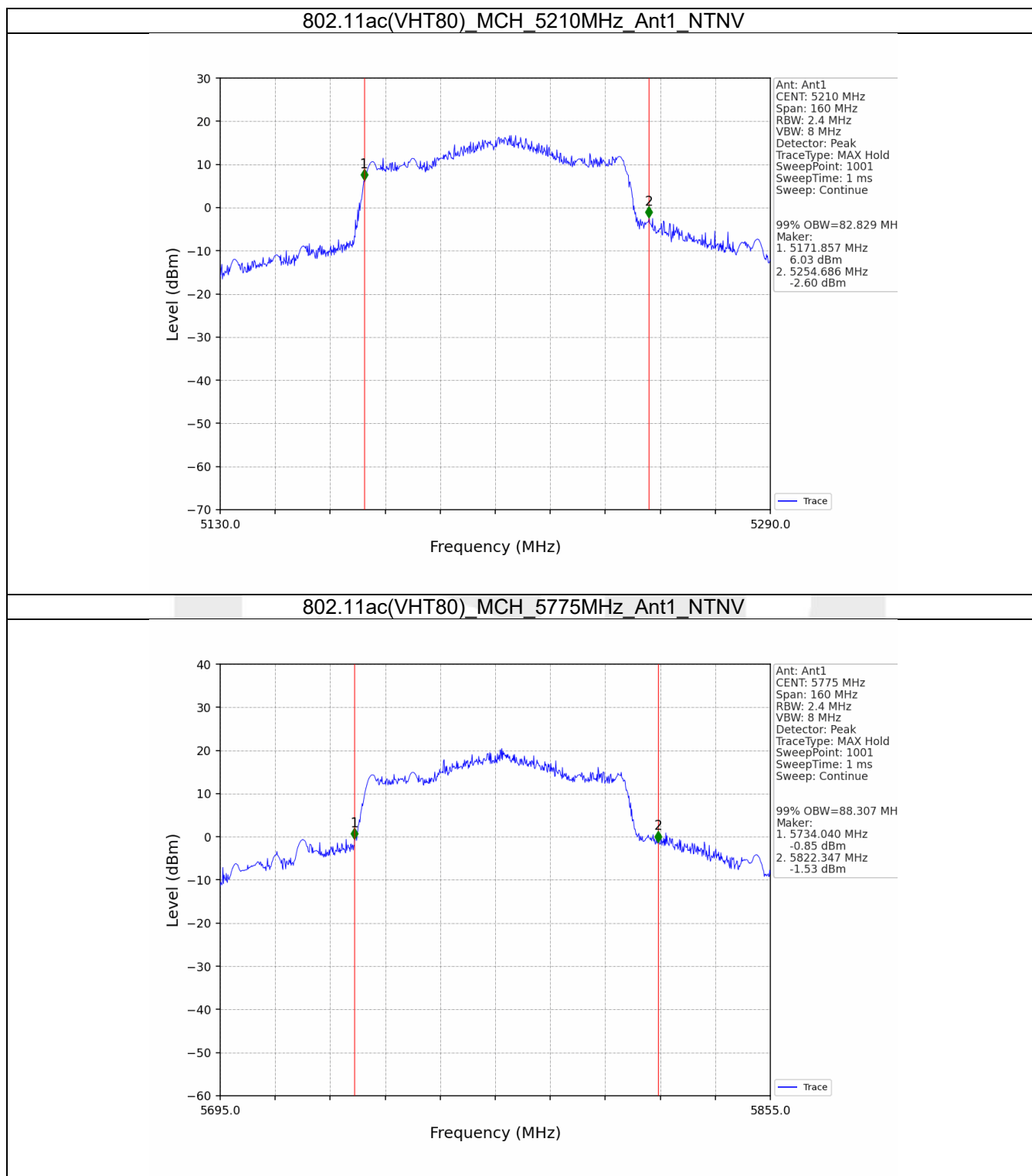
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



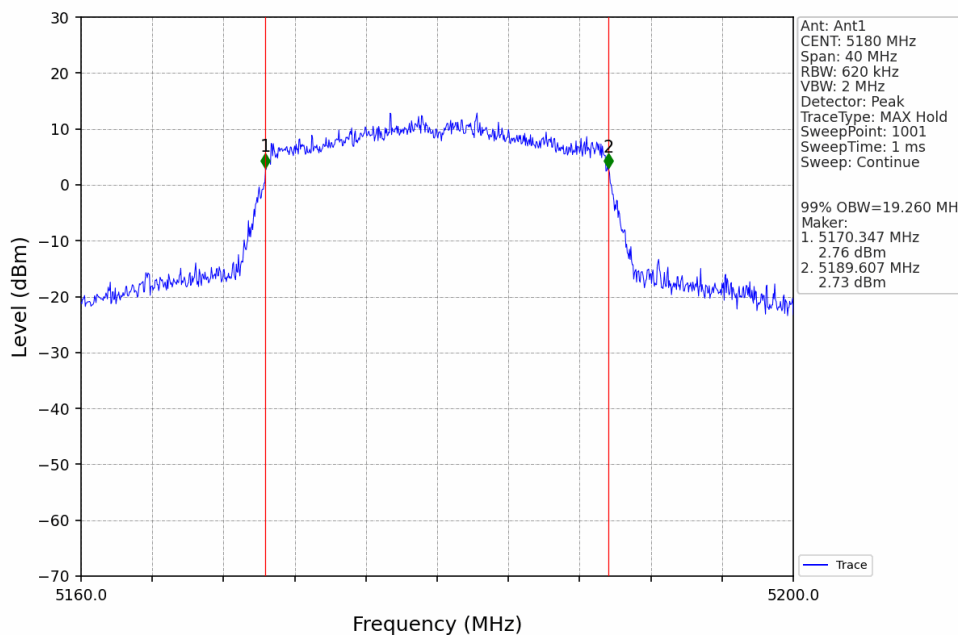
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



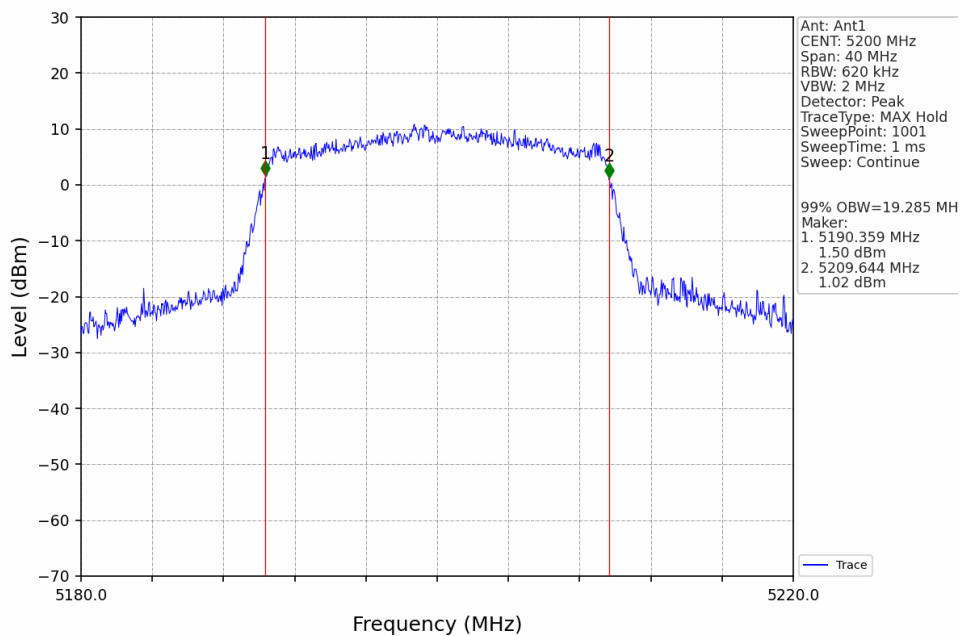




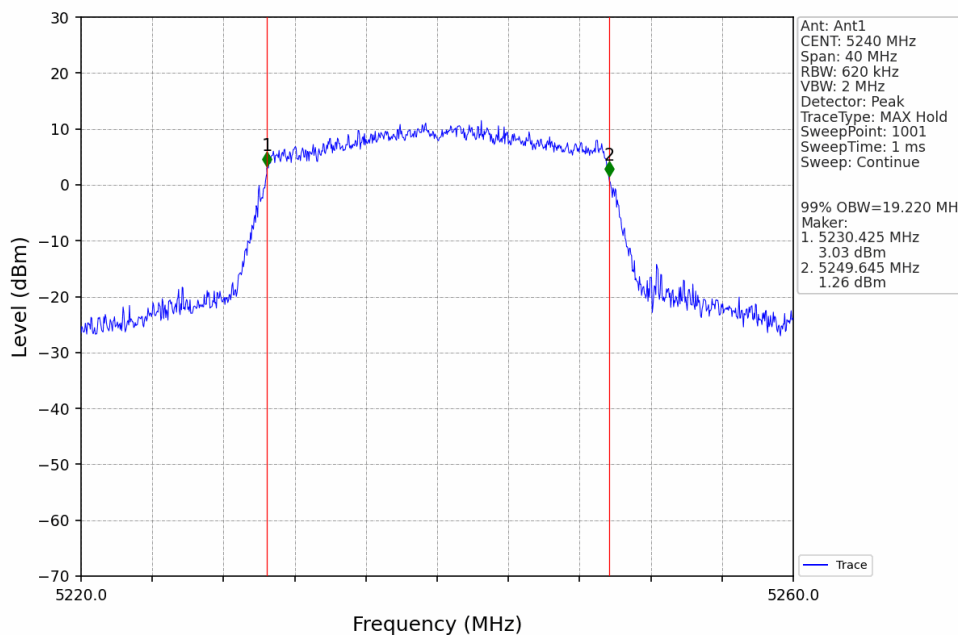
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



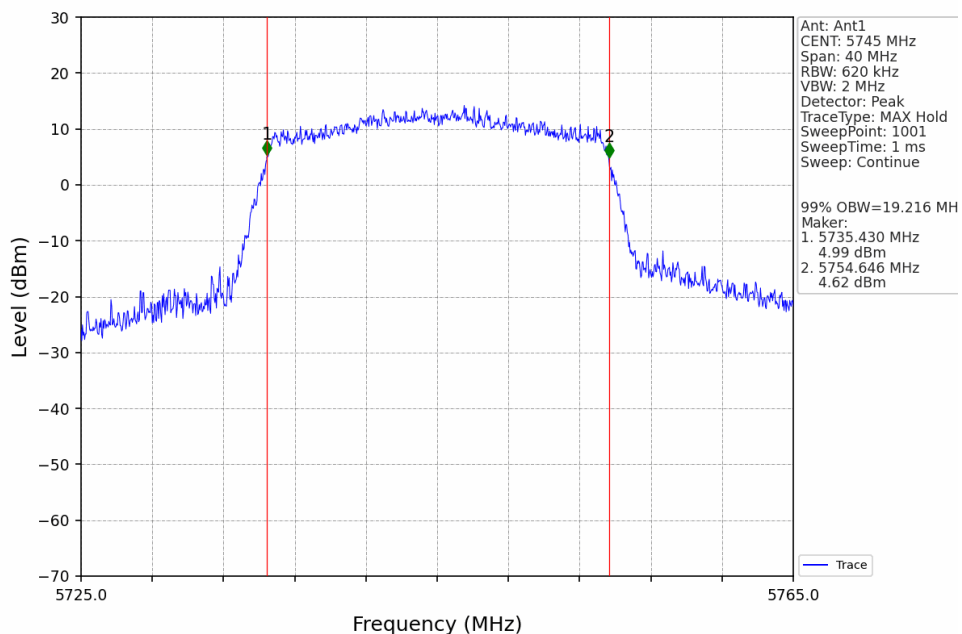
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV

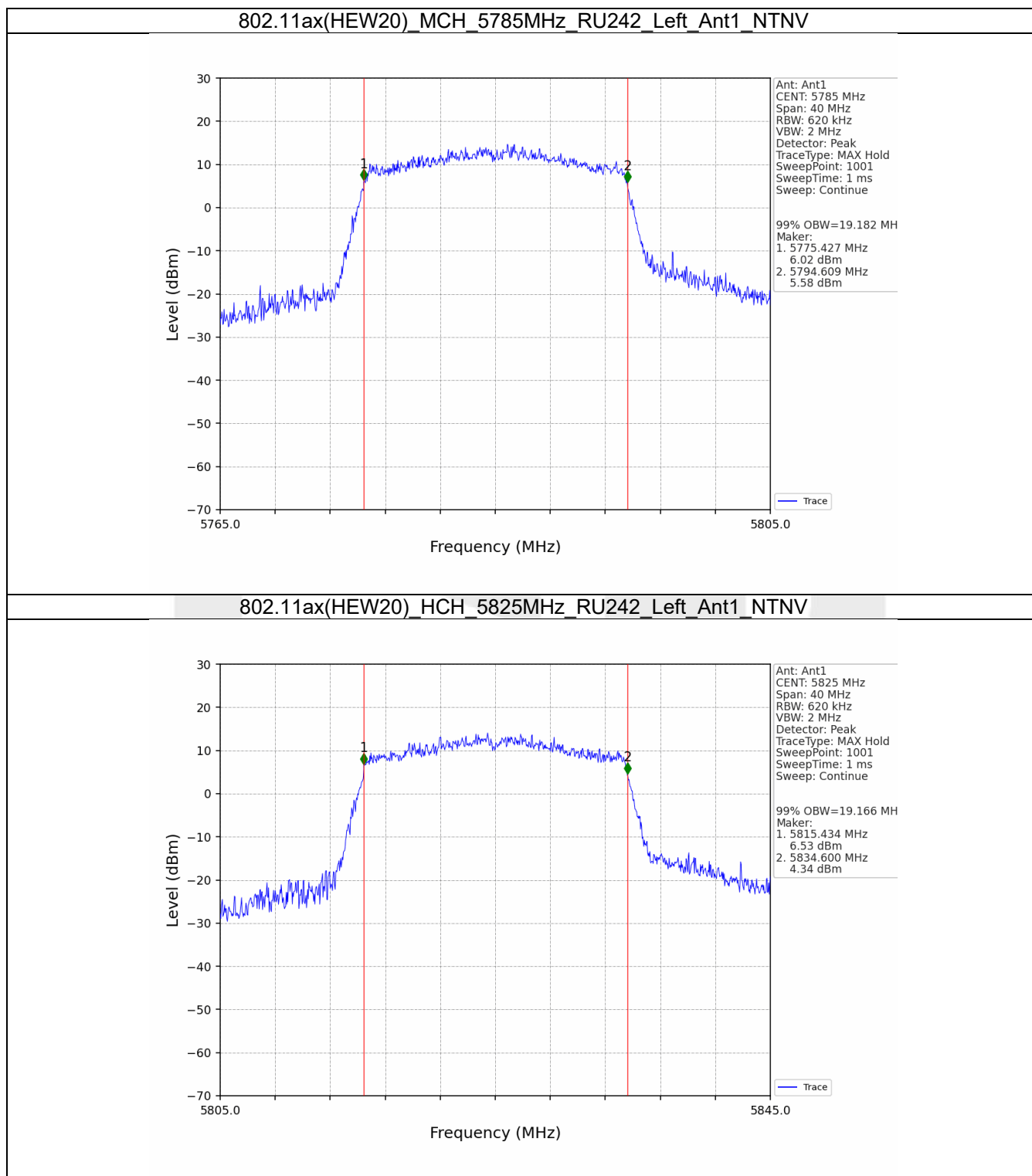


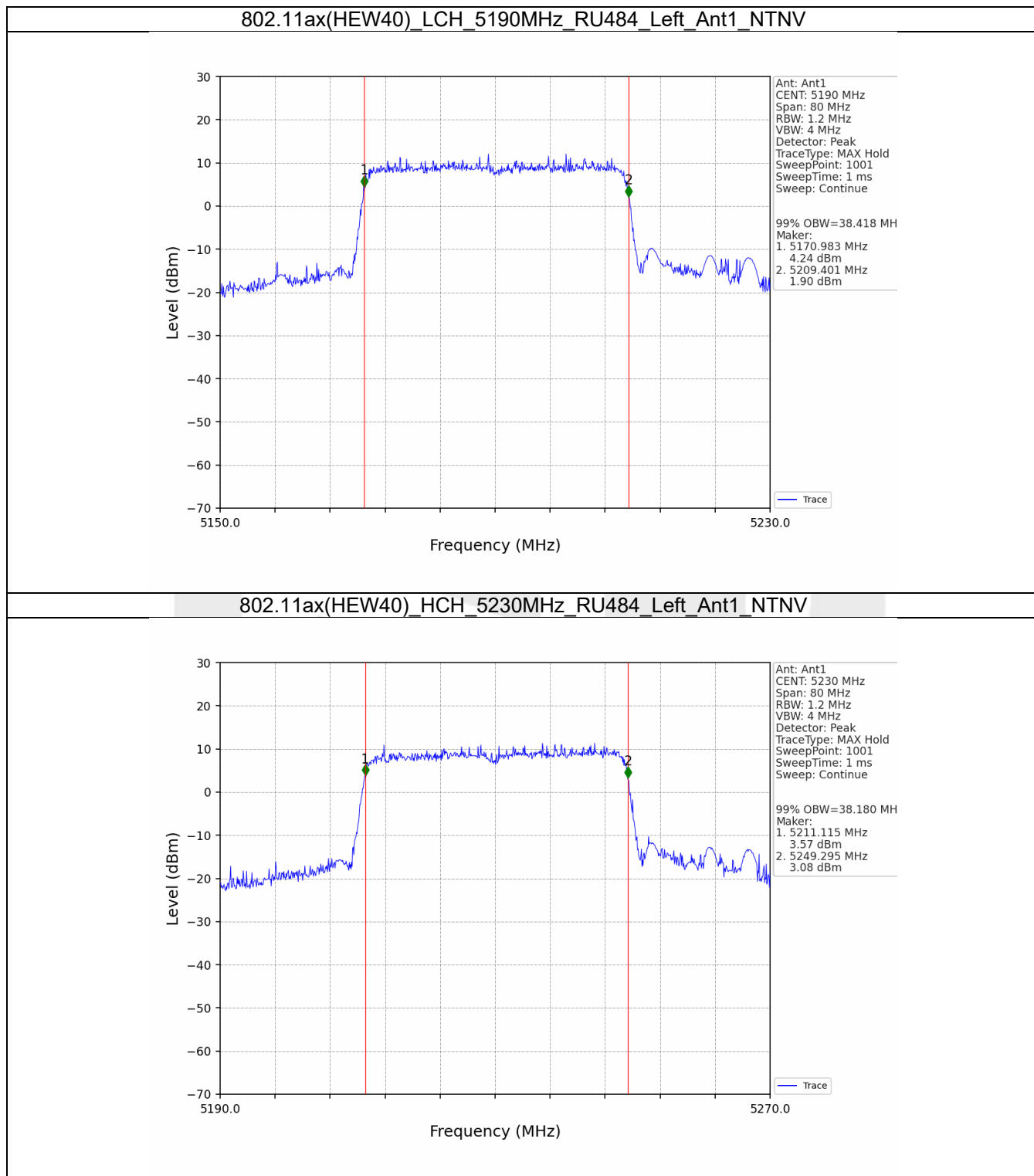
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



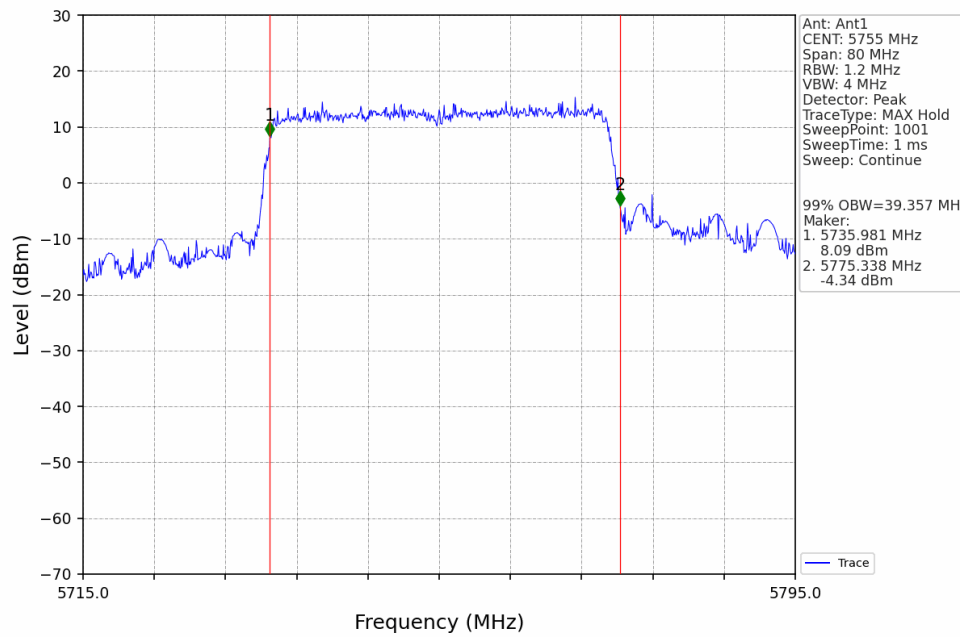
802.11ax(HEW20)_LCH_5745MHz_RU242_Left_Ant1_NTNV



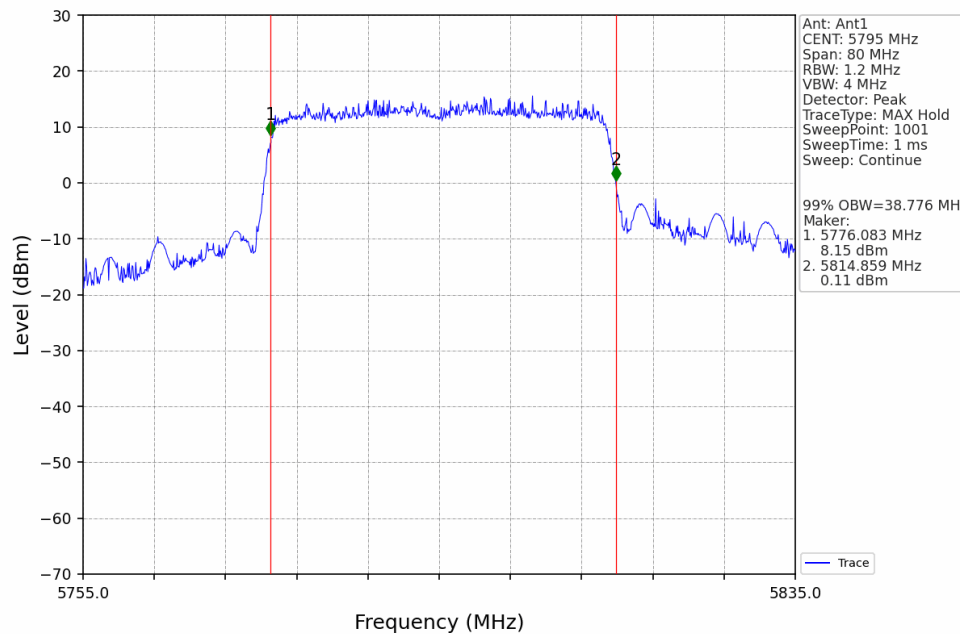


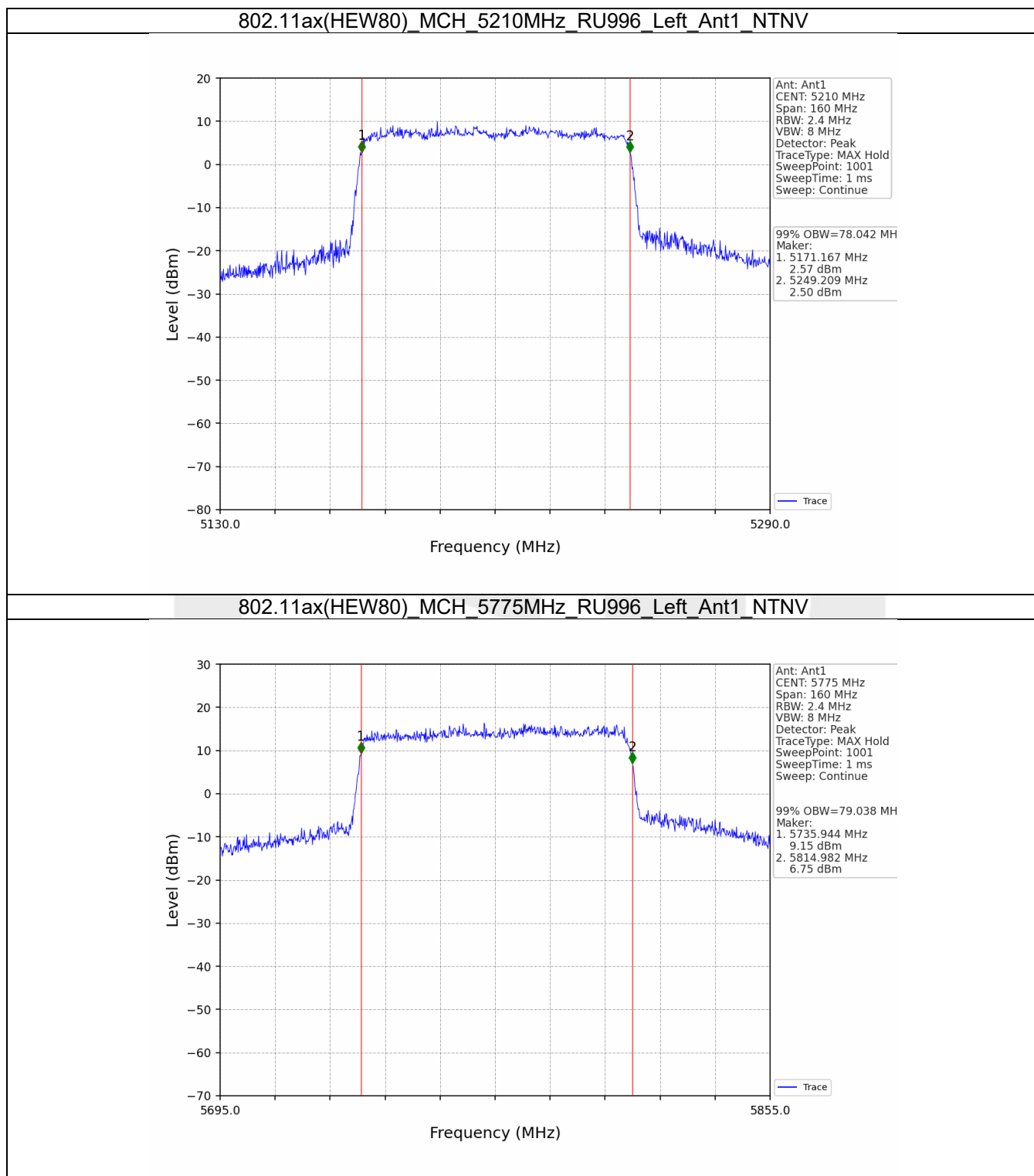


802.11ax(HEW40)_LCH_5755MHz_RU484_Left_Ant1_NTNV

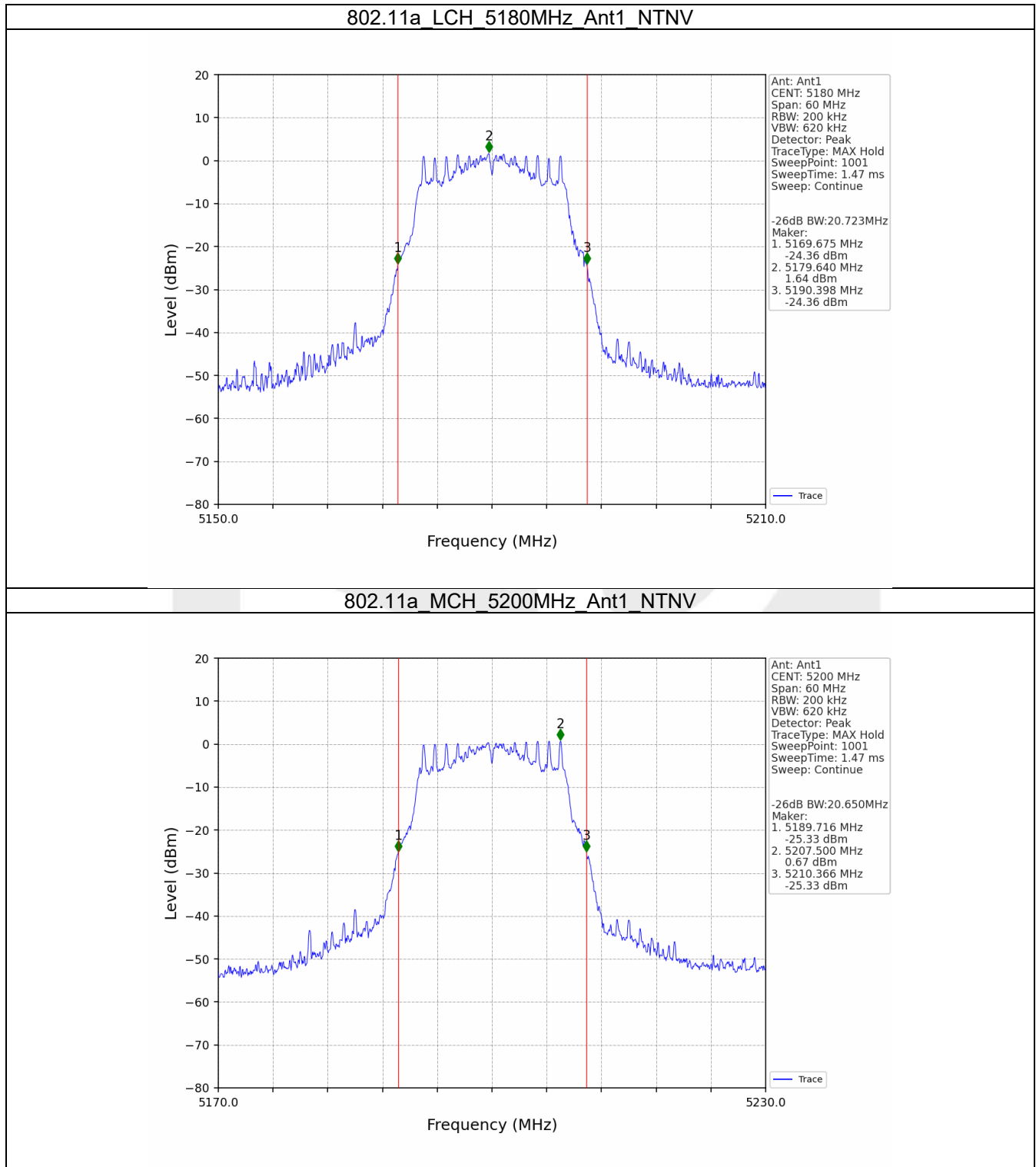


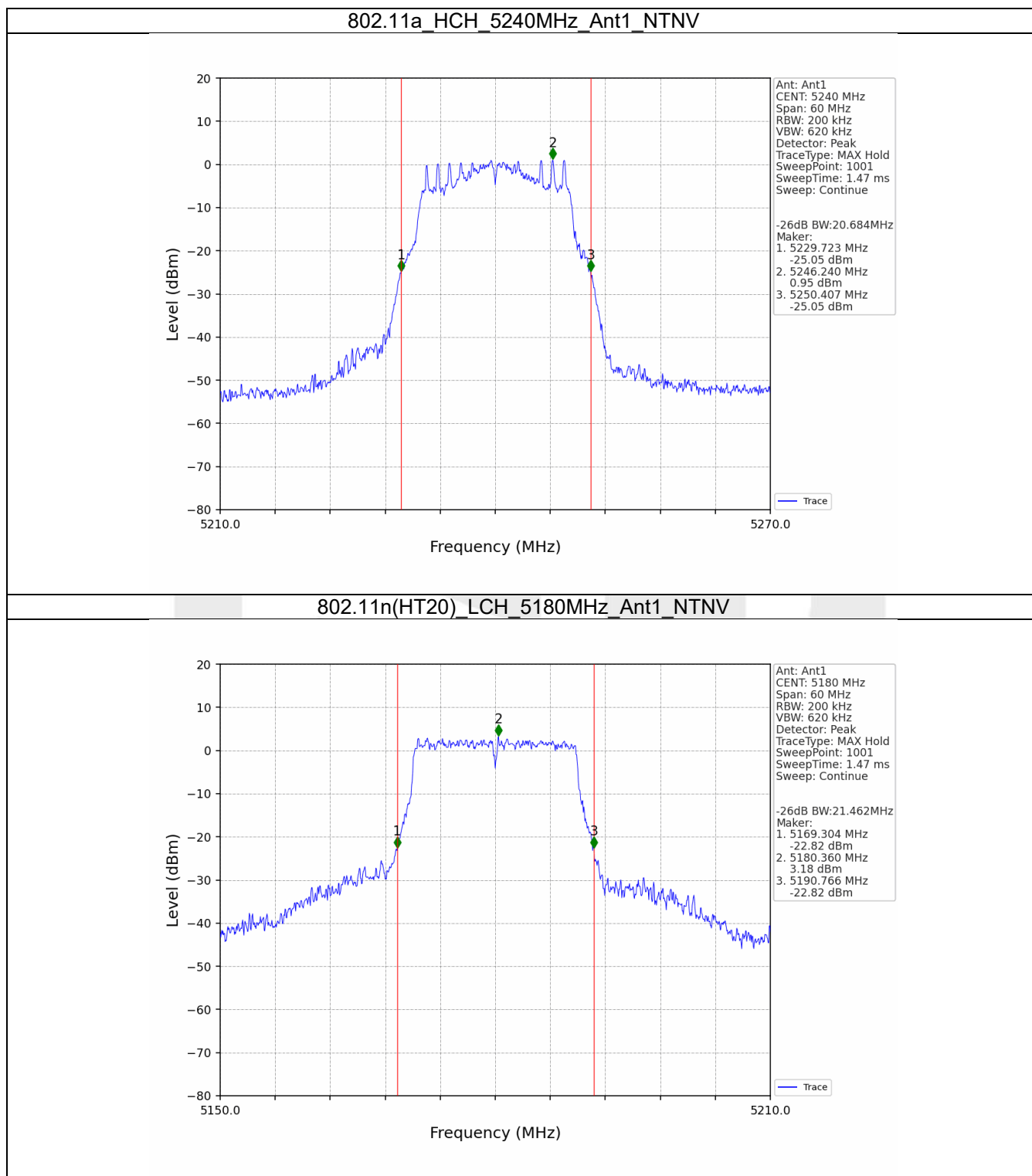
802.11ax(HEW40)_HCH_5795MHz_RU484_Left_Ant1_NTNV



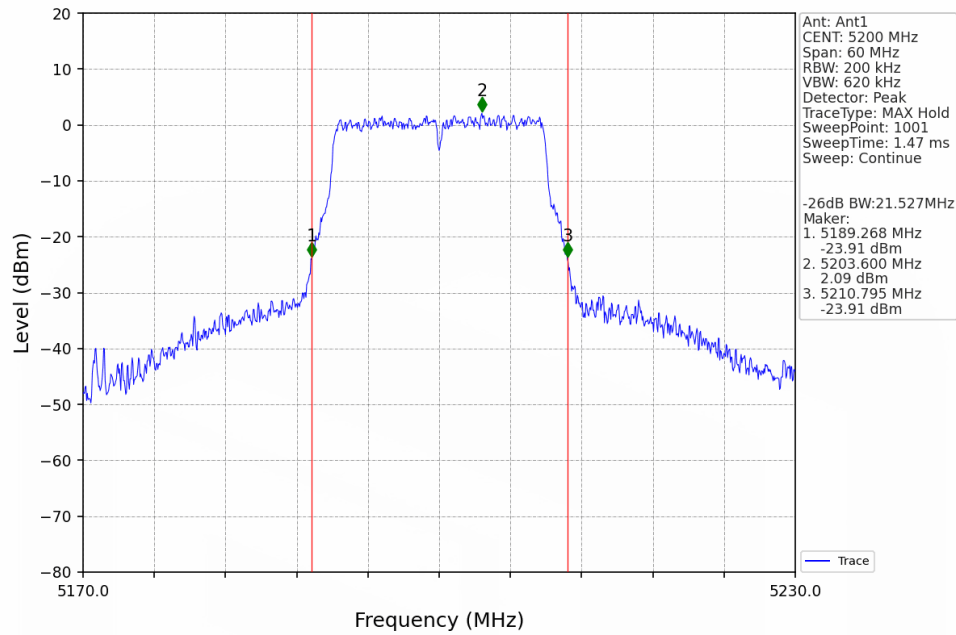


2.2.2 26dB BW

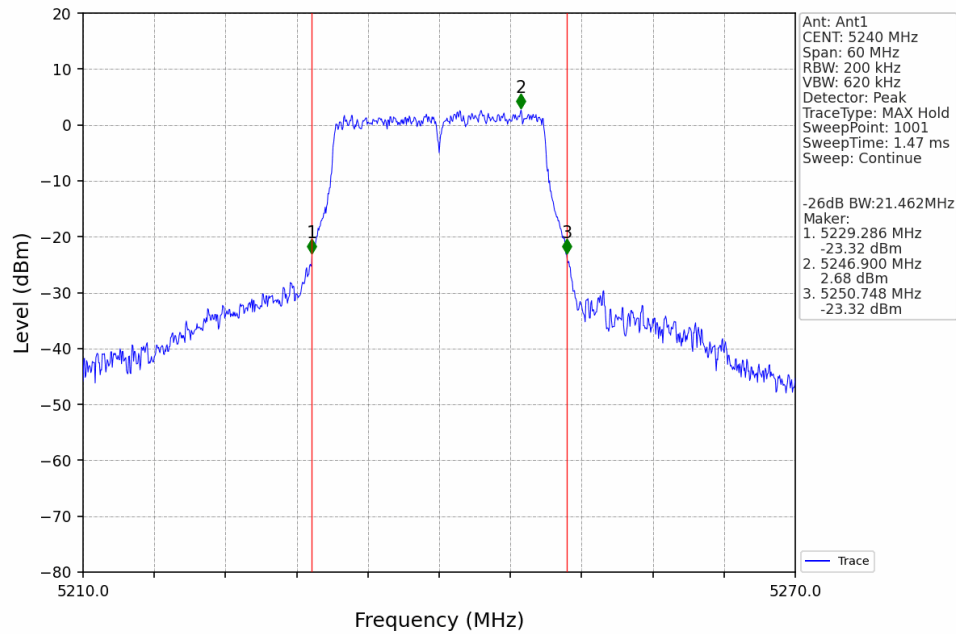


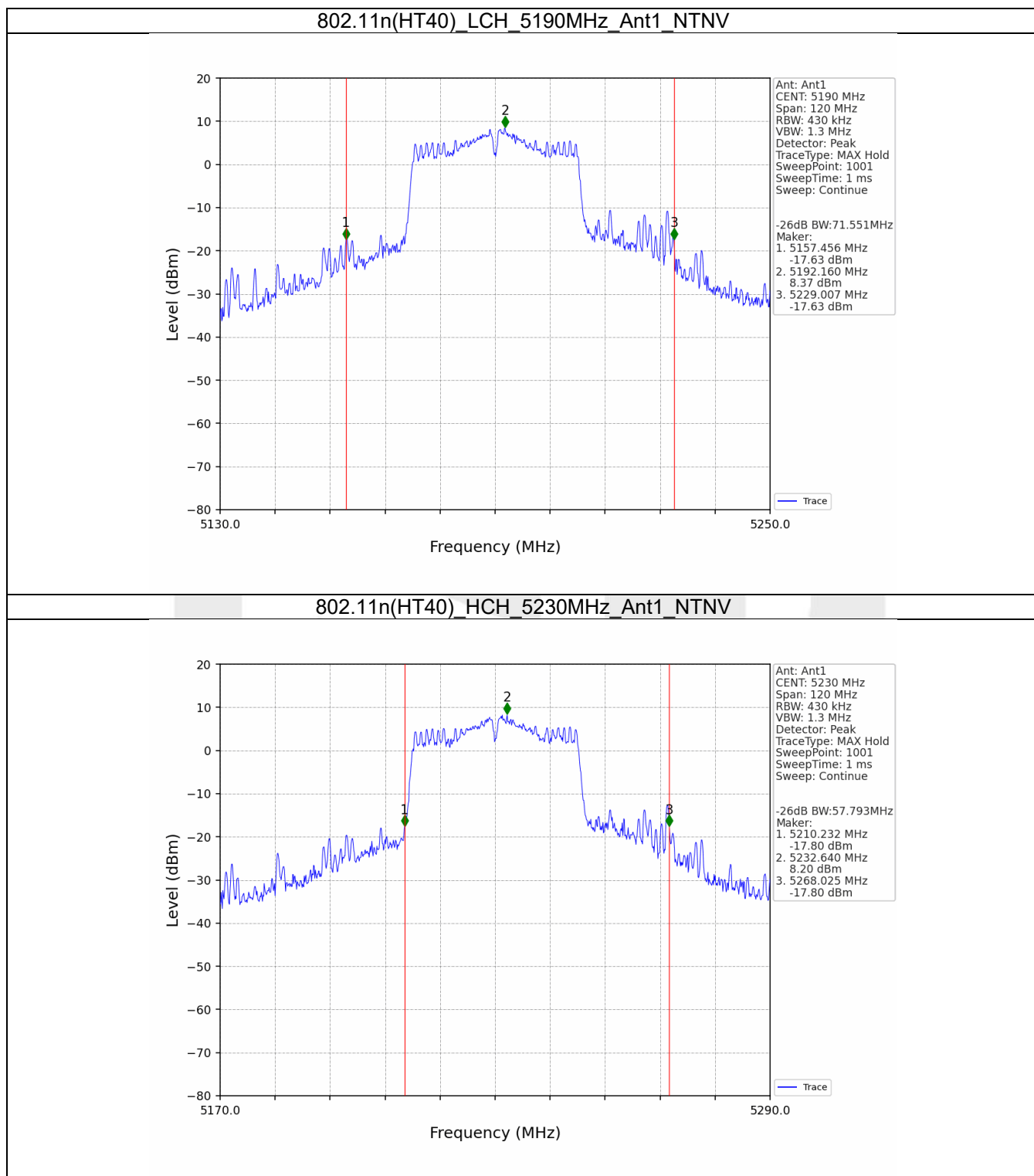


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

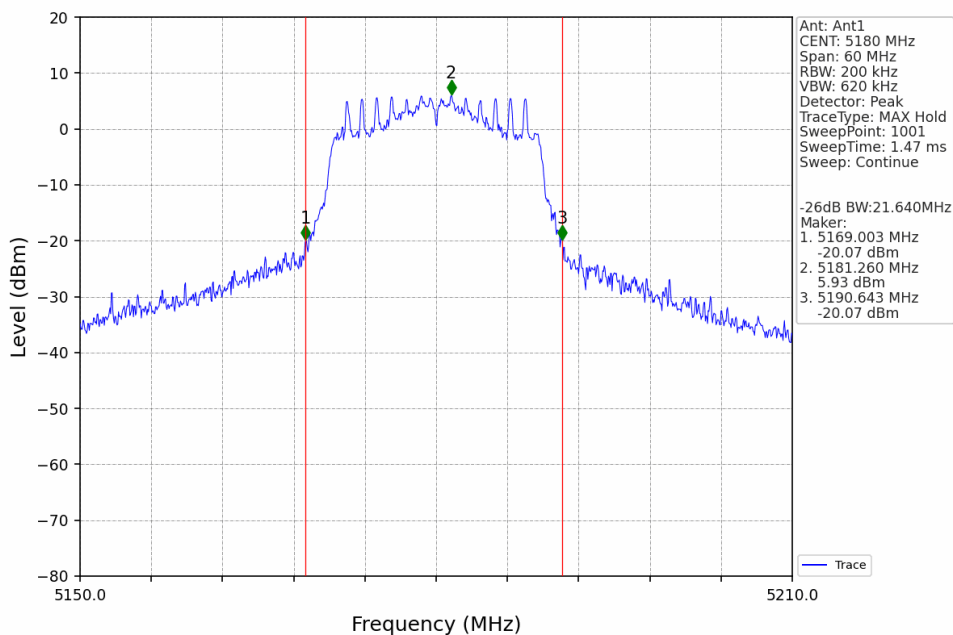


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

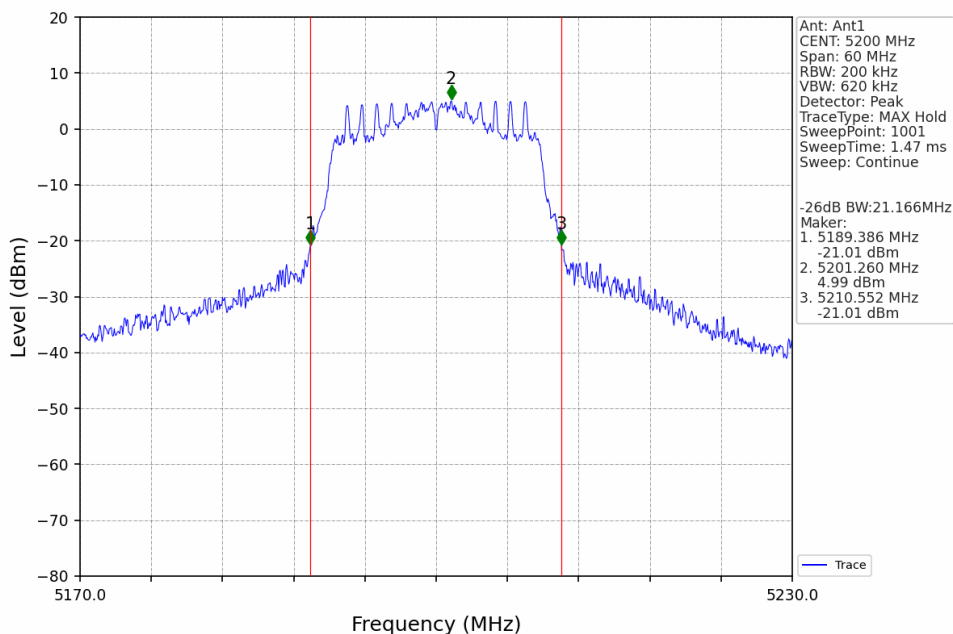


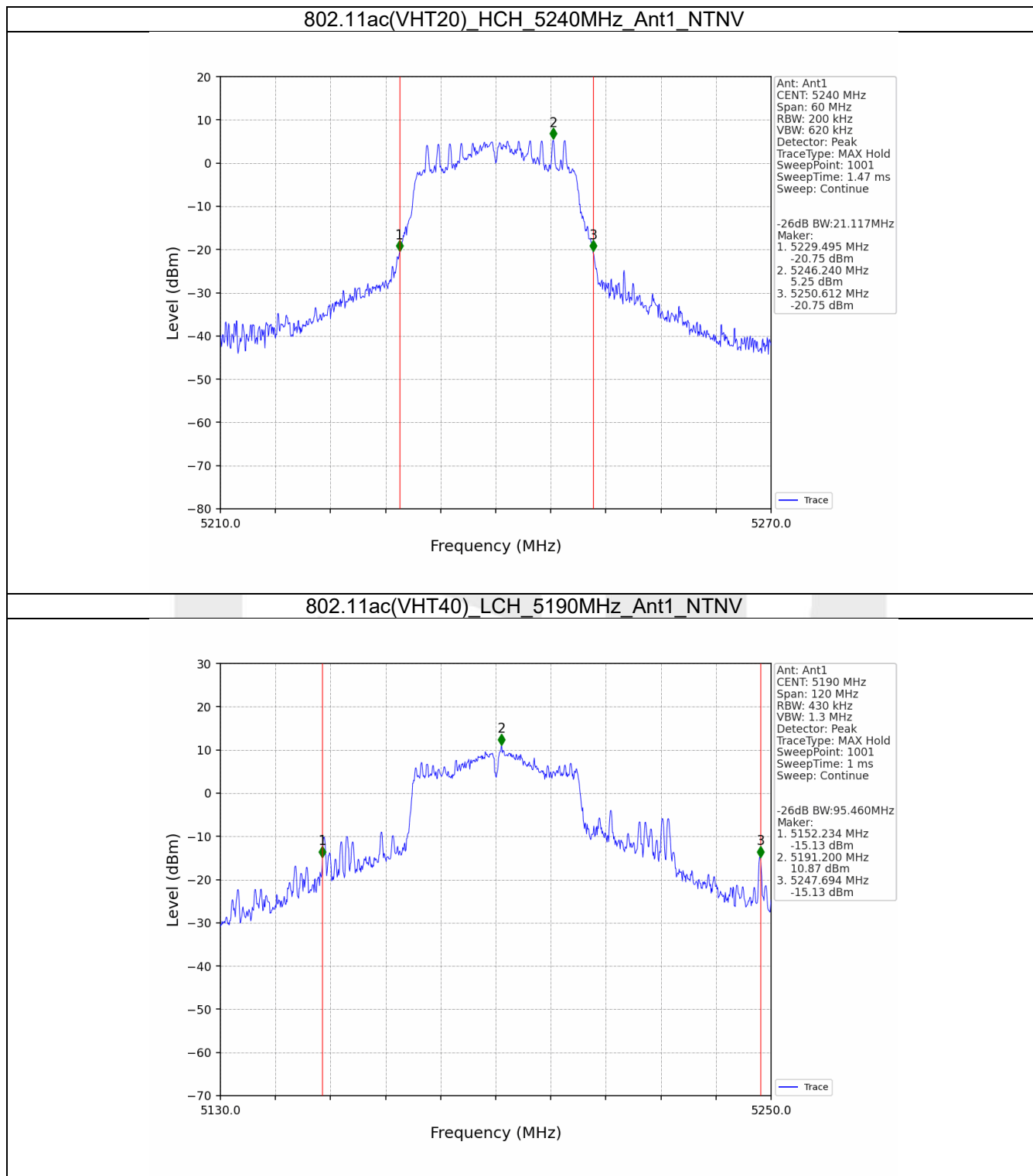


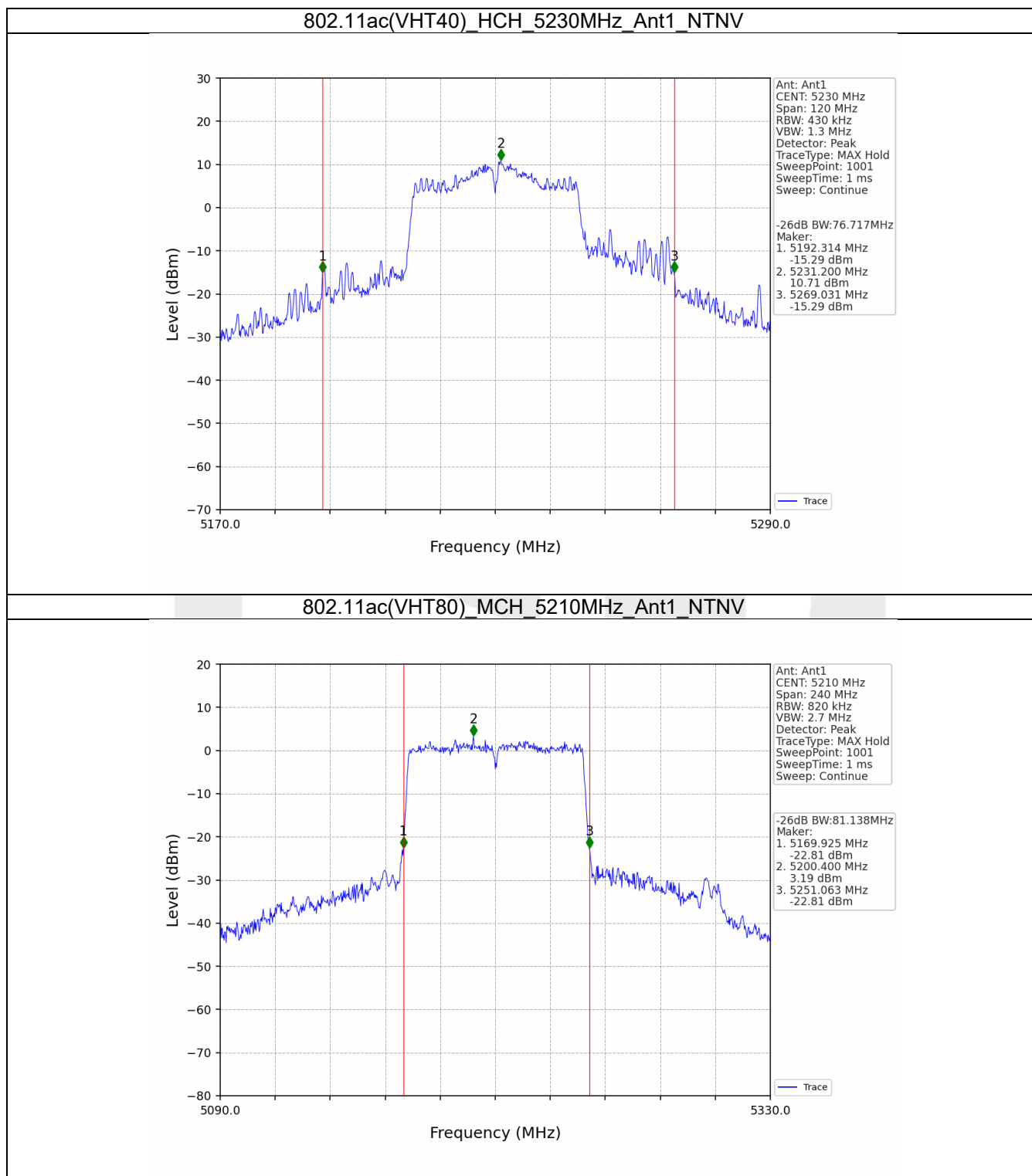
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



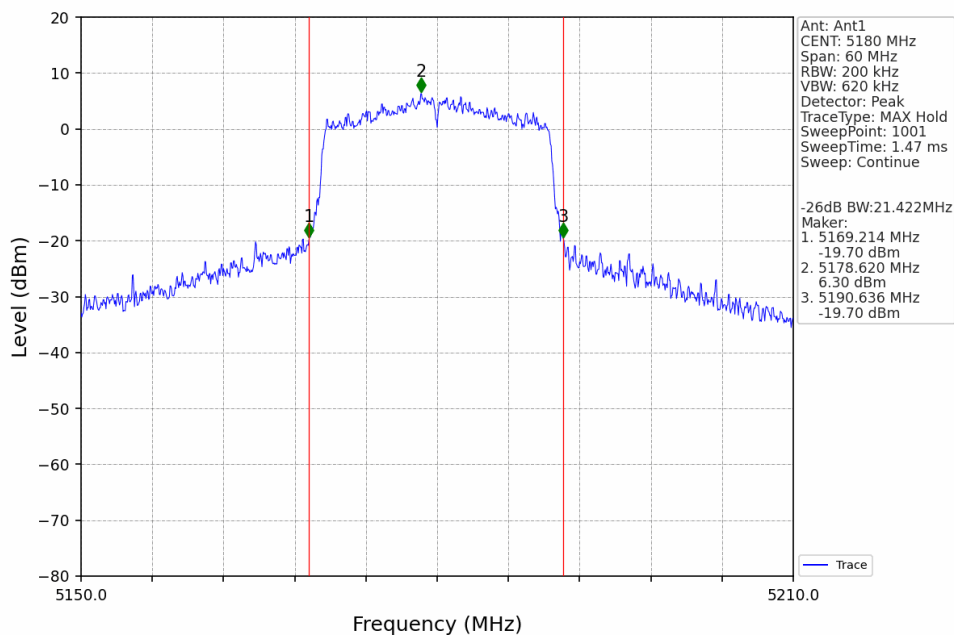
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



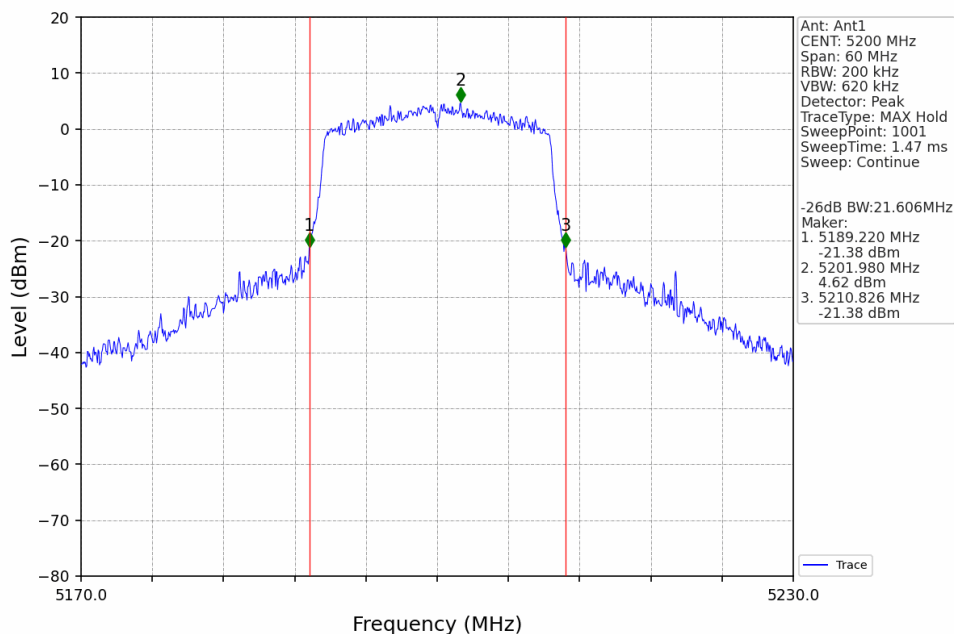


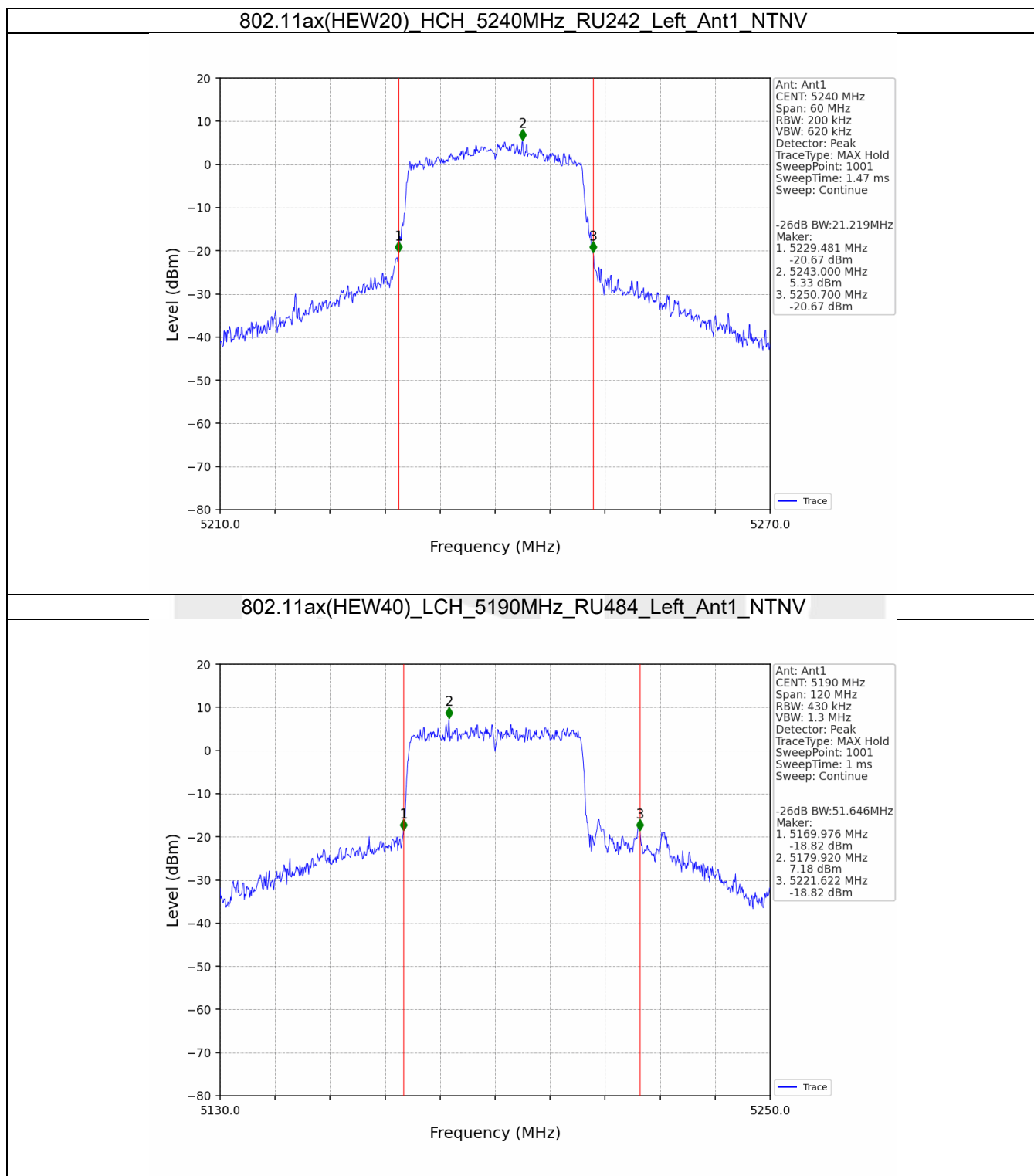


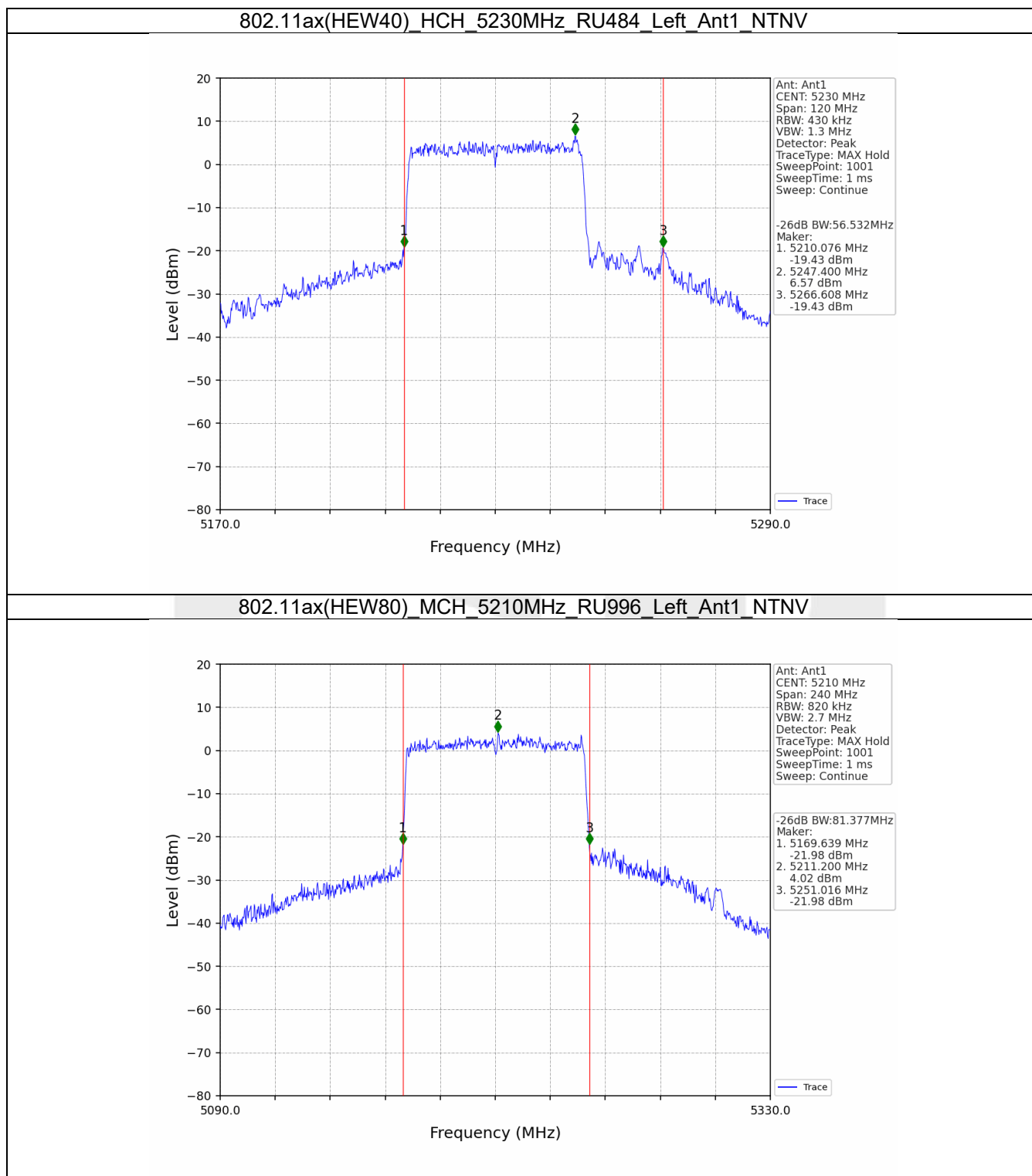
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



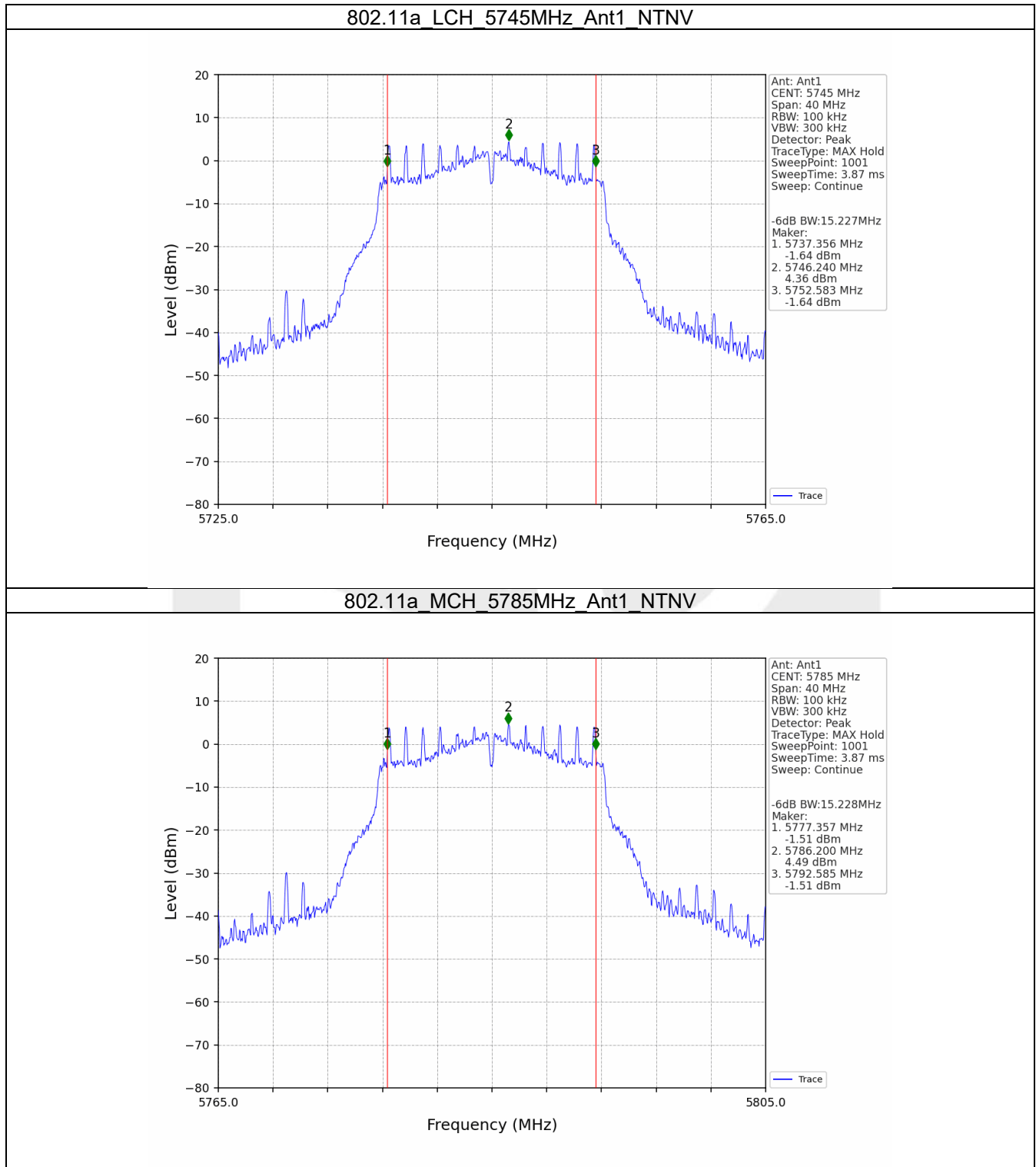
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV

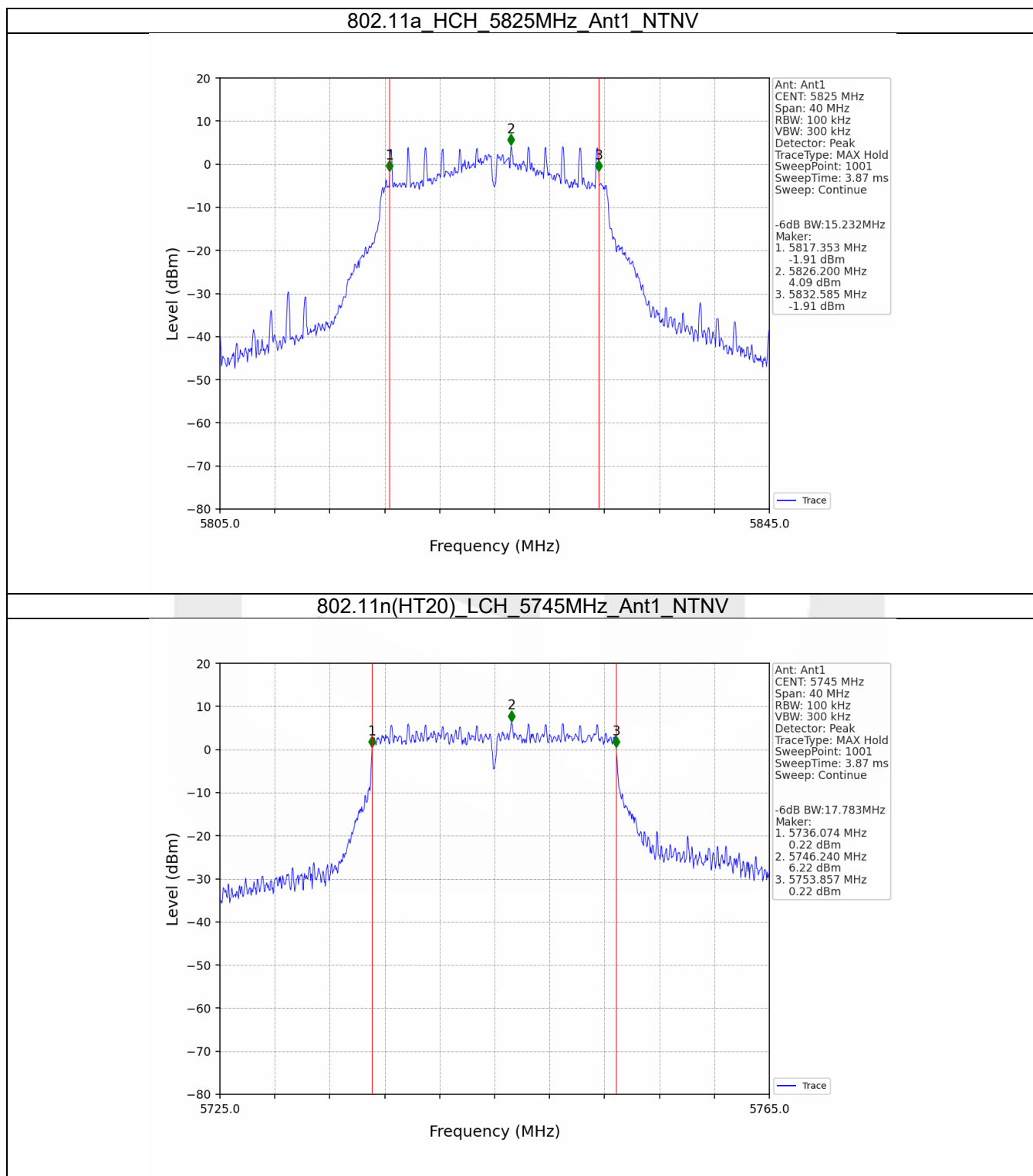


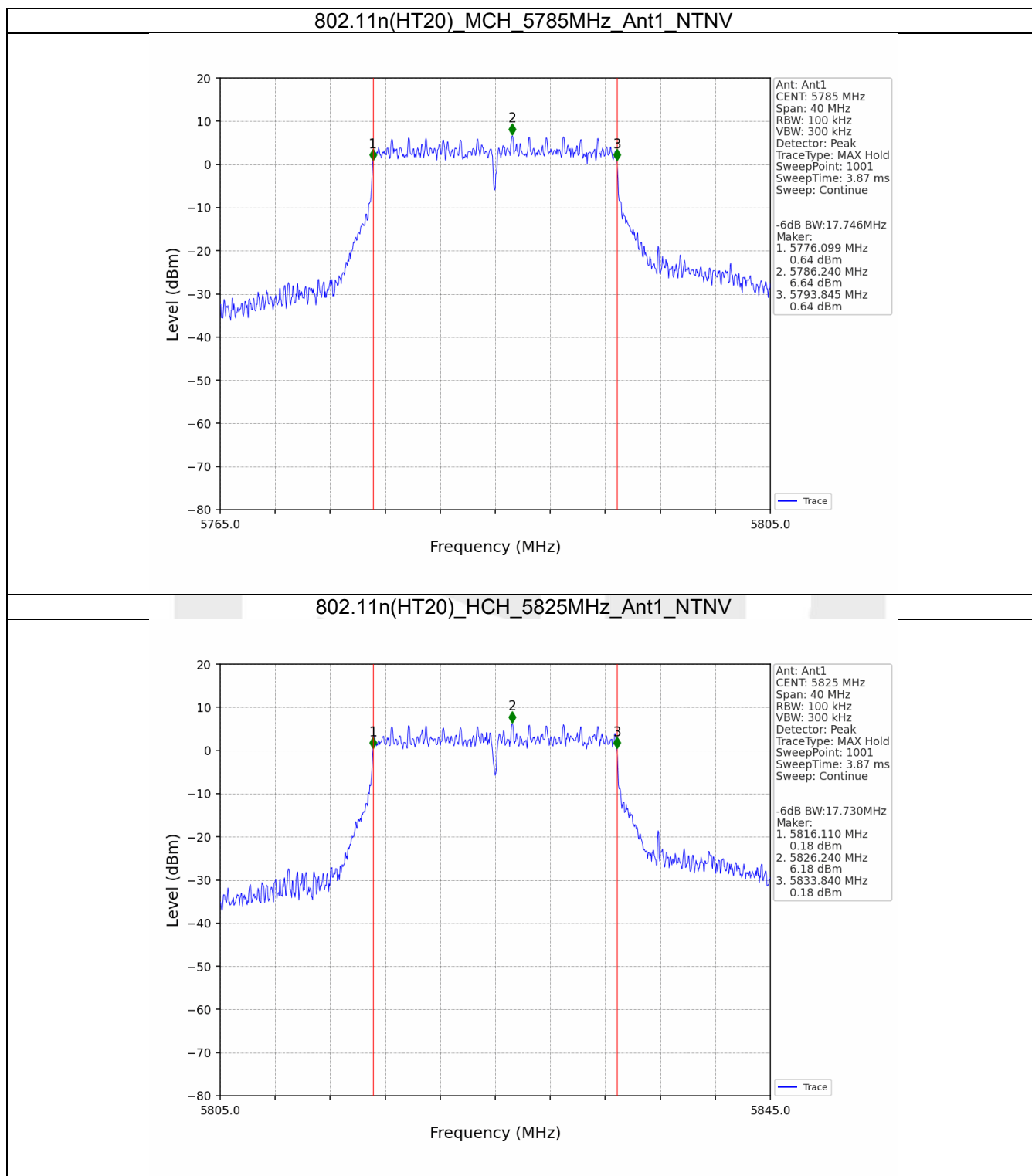


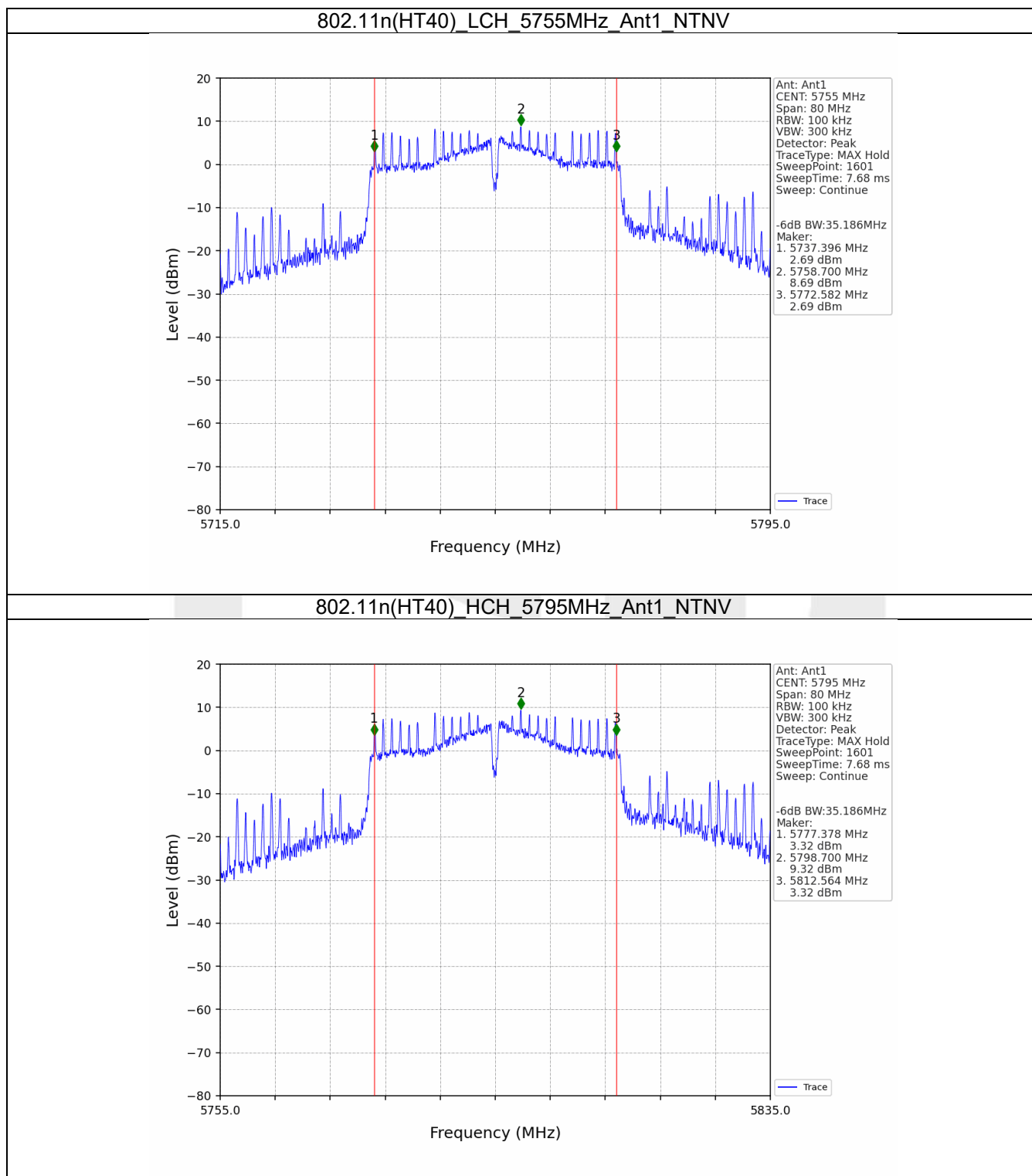


2.2.3 6dB BW

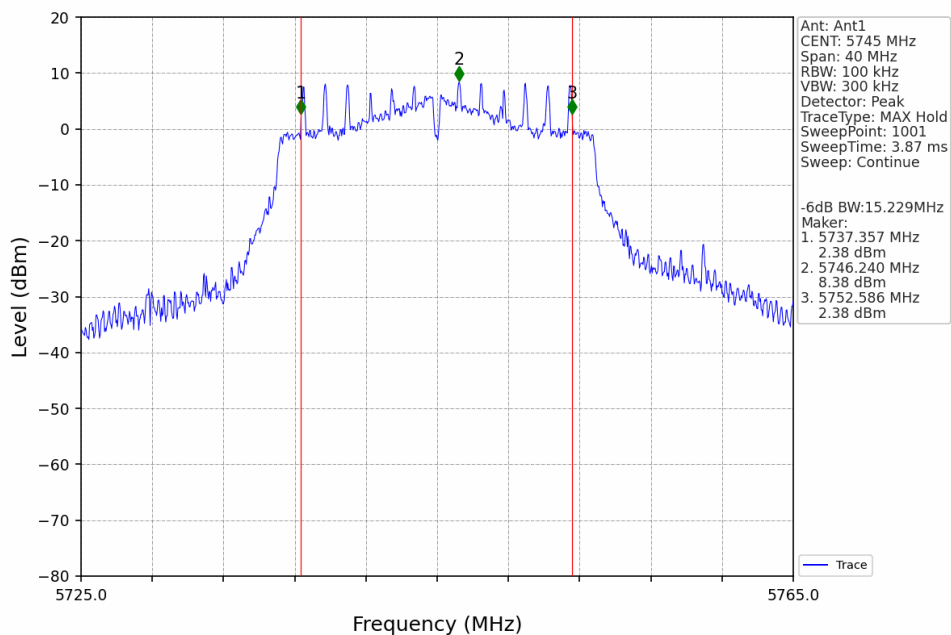




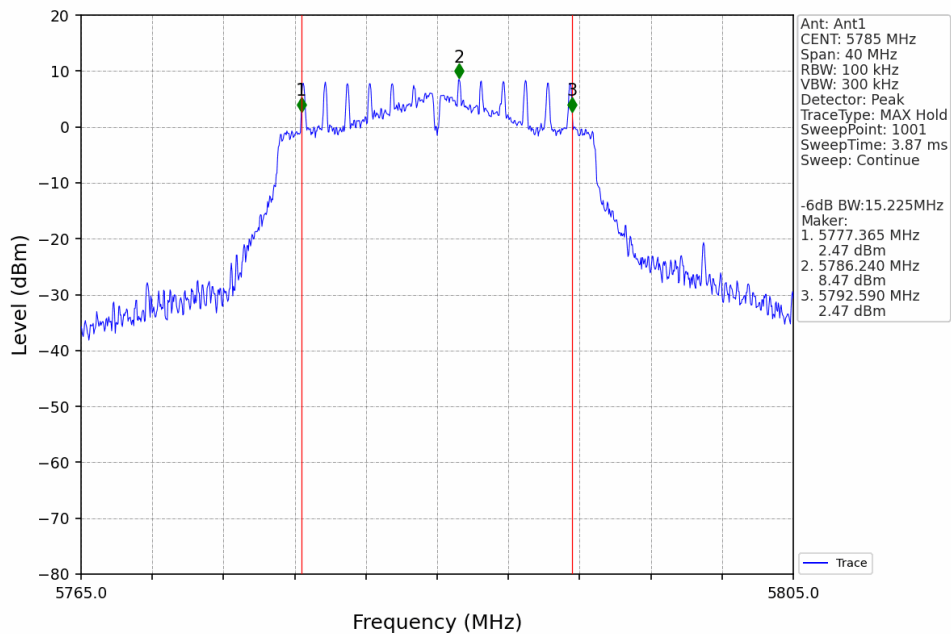


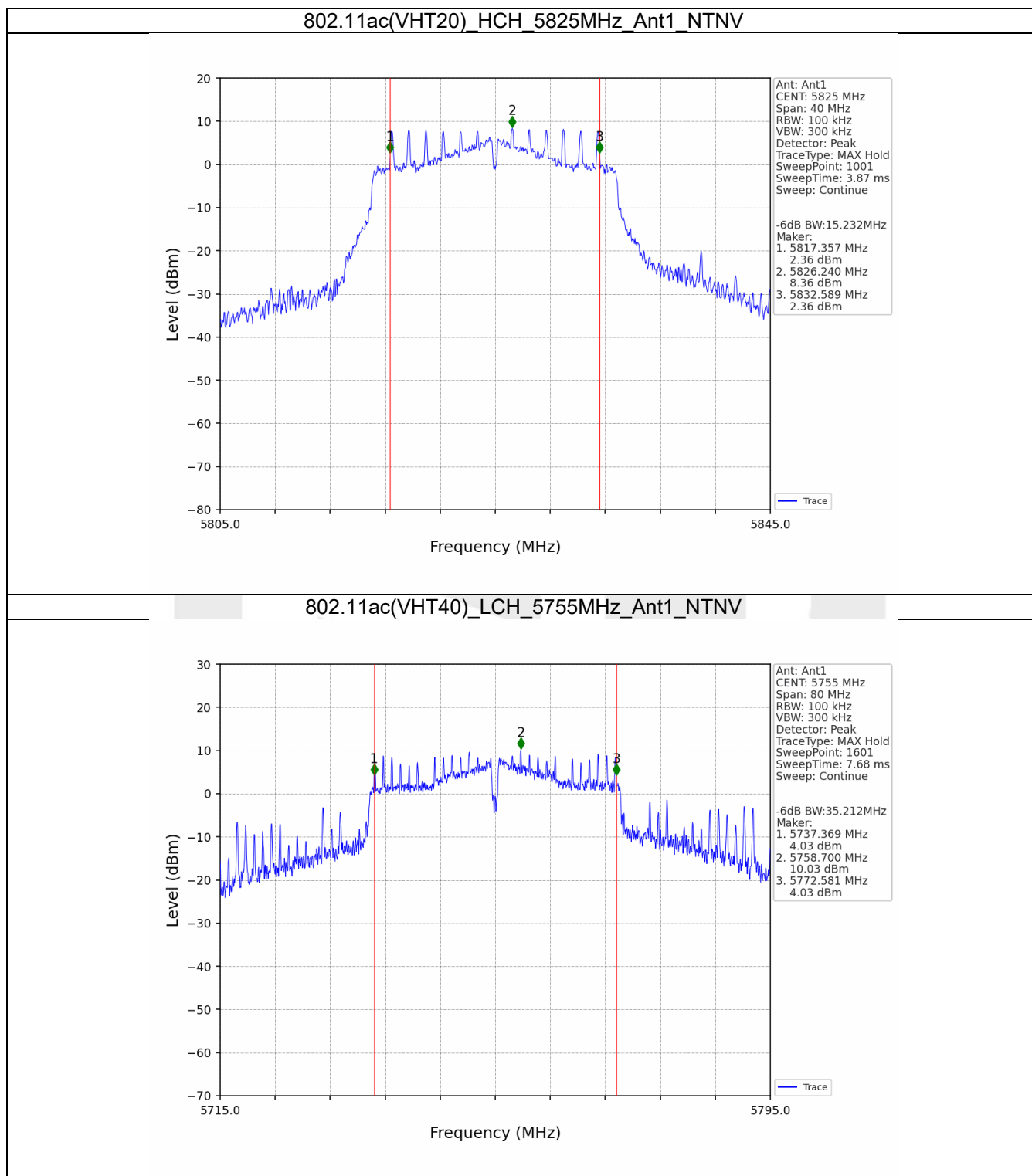


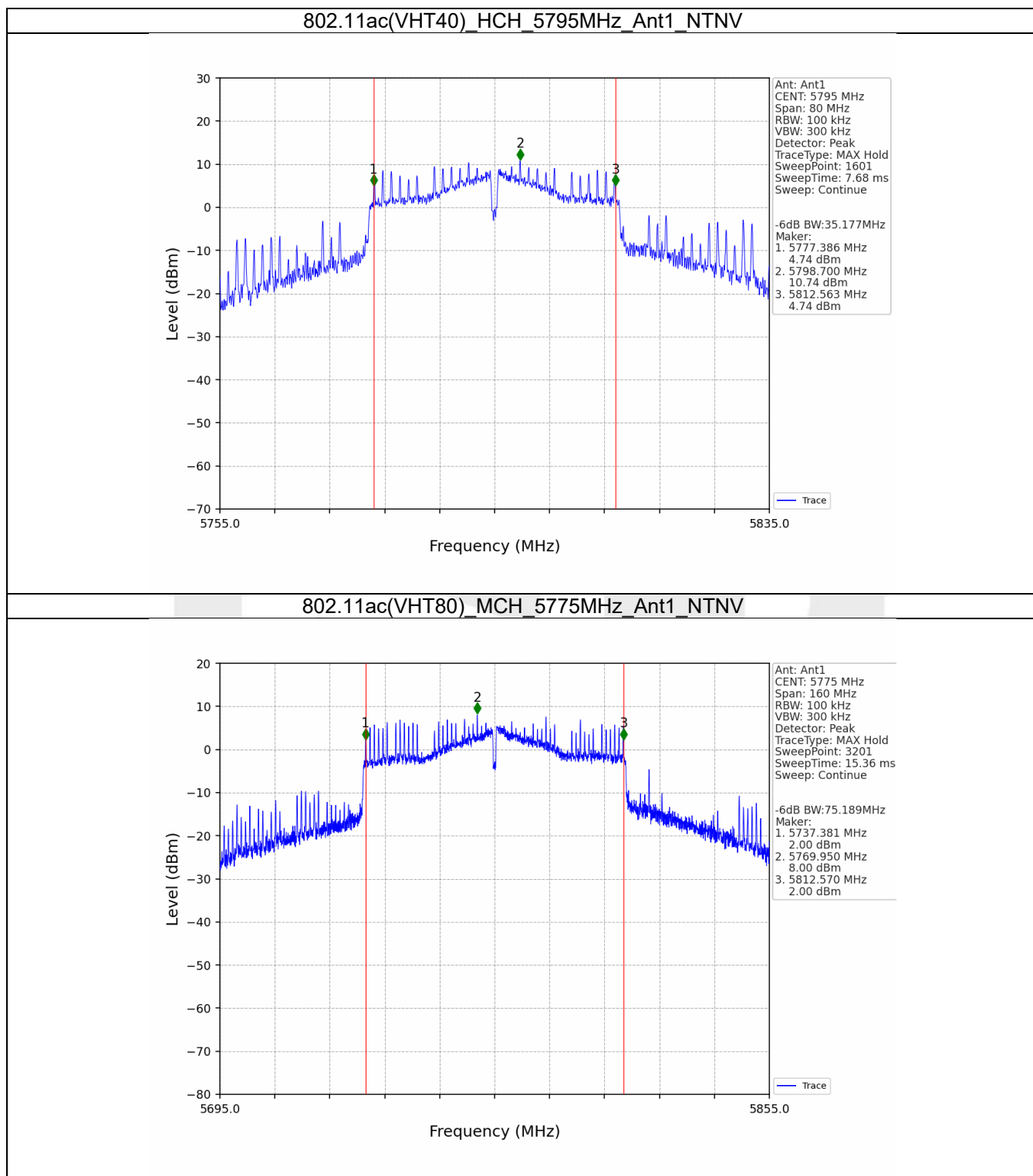
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



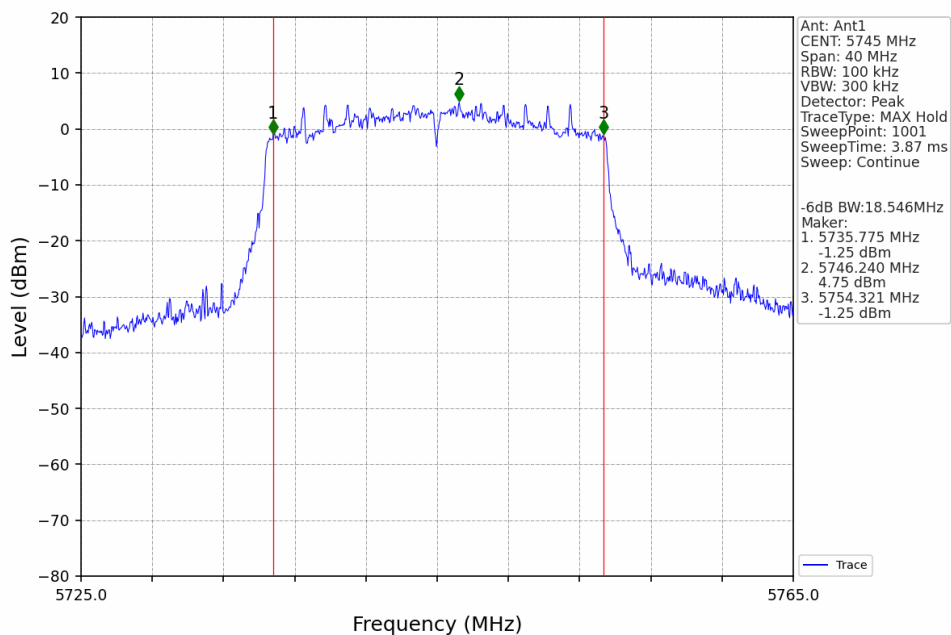
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



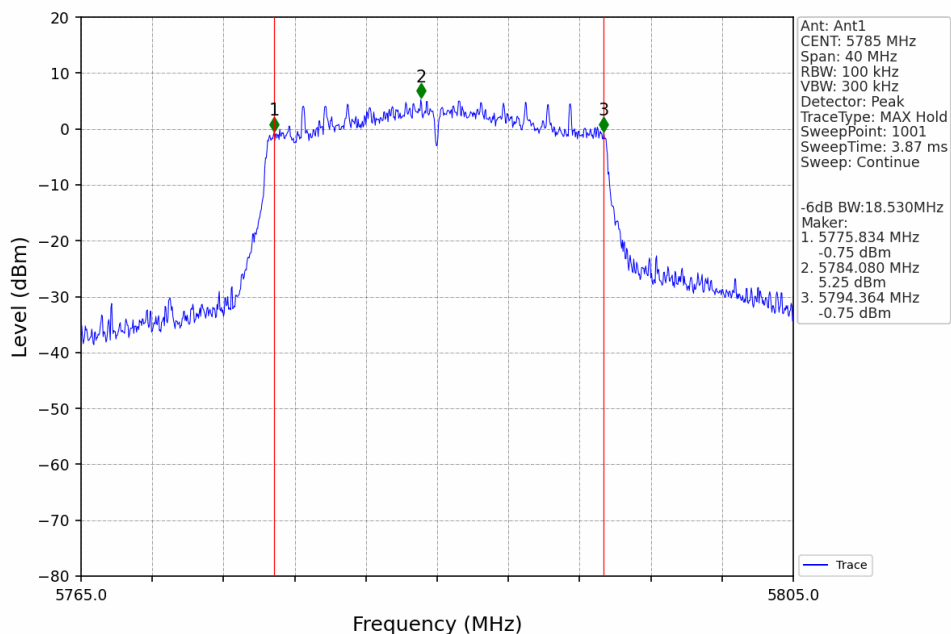




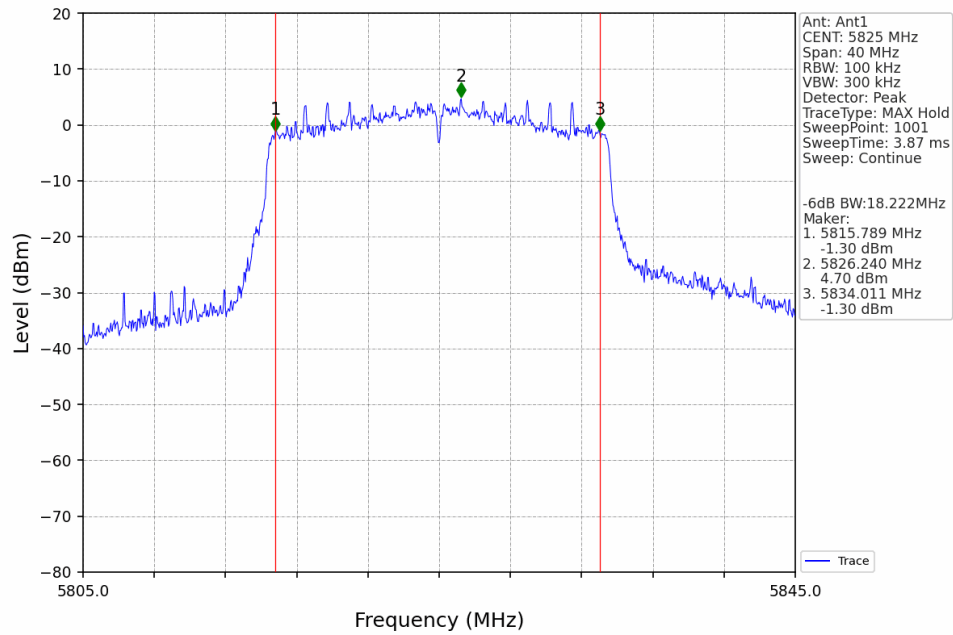
802.11ax(HEW20)_LCH_5745MHz_RU242_Left_Ant1_NTNV



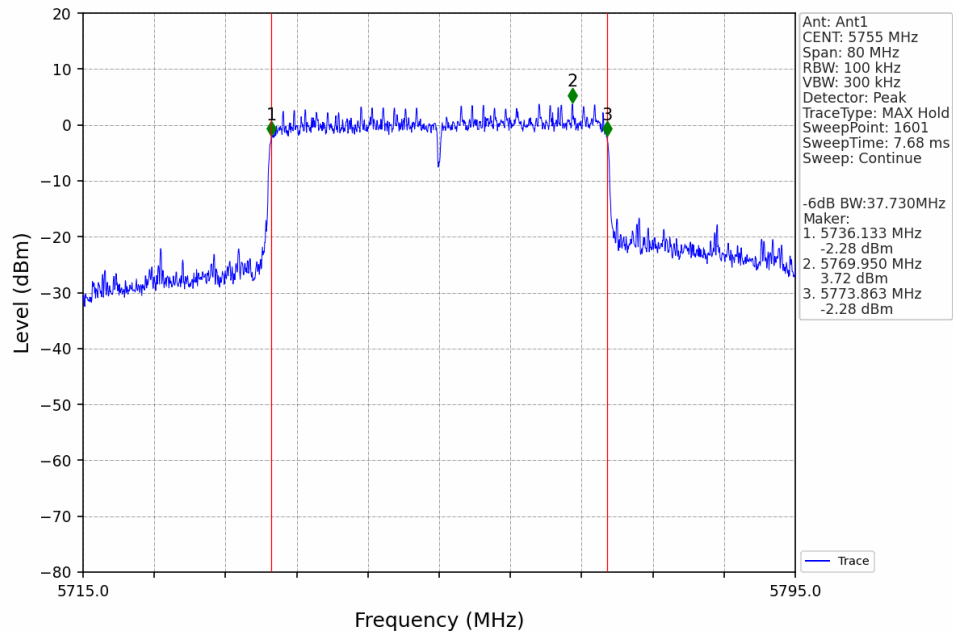
802.11ax(HEW20)_MCH_5785MHz_RU242_Left_Ant1_NTNV



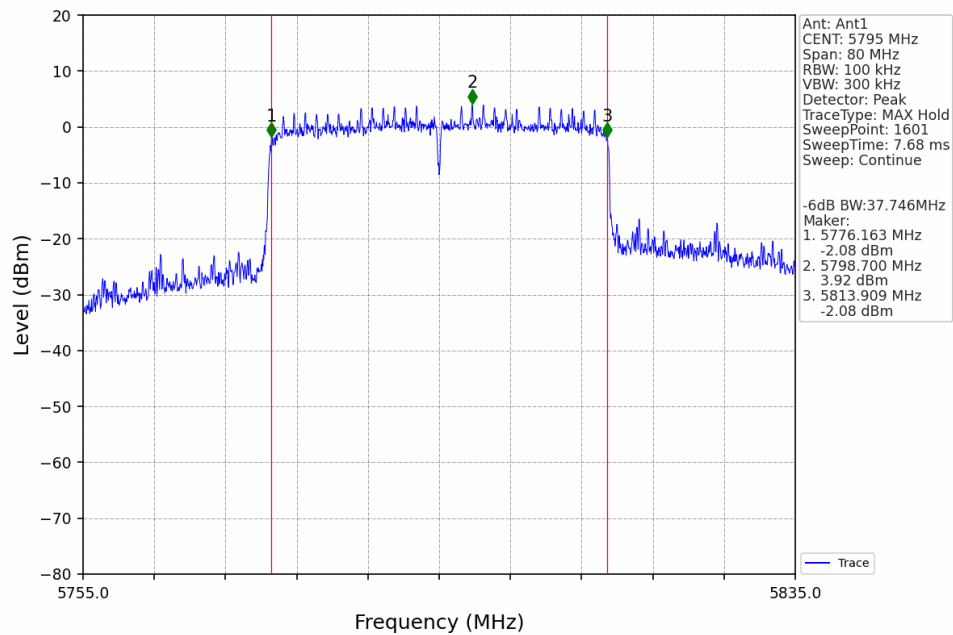
802.11ax(HEW20)_HCH_5825MHz_RU242_Left_Ant1_NTNV



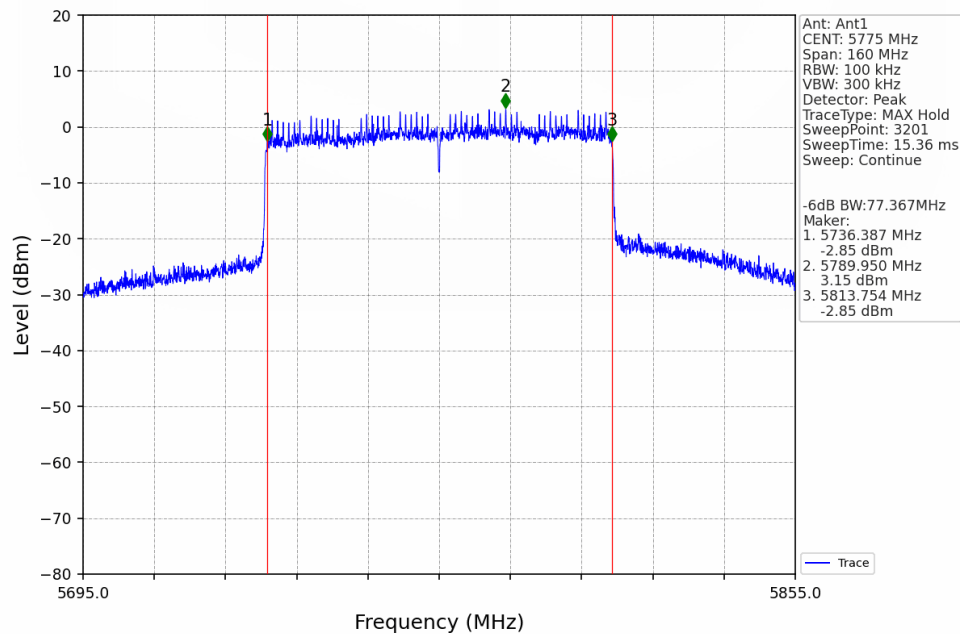
802.11ax(HEW40)_LCH_5755MHz_RU484_Left_Ant1_NTNV



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 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	/	/	9.74	<=23.98	Pass
		5200	/	/	8.84	<=23.98	Pass
		5240	/	/	9.09	<=23.98	Pass
		5745	/	/	13.50	<=30	Pass
		5785	/	/	13.55	<=30	Pass
		5825	/	/	13.31	<=30	Pass
802.11n (HT20)	SISO	5180	/	/	12.73	<=23.98	Pass
		5200	/	/	11.77	<=23.98	Pass
		5240	/	/	12.04	<=23.98	Pass
		5745	/	/	17.27	<=30	Pass
		5785	/	/	17.65	<=30	Pass
		5825	/	/	17.32	<=30	Pass
802.11n (HT40)	SISO	5190	/	/	16.18	<=23.98	Pass
		5230	/	/	16.18	<=23.98	Pass
		5755	/	/	20.28	<=30	Pass
		5795	/	/	20.48	<=30	Pass
802.11ac (VHT20)	SISO	5180	/	/	13.95	<=23.98	Pass
		5200	/	/	13.14	<=23.98	Pass
		5240	/	/	13.18	<=23.98	Pass
		5745	/	/	17.27	<=30	Pass
		5785	/	/	17.33	<=30	Pass
		5825	/	/	17.05	<=30	Pass
802.11ac (VHT40)	SISO	5190	/	/	18.18	<=23.98	Pass
		5230	/	/	18.40	<=23.98	Pass
		5755	/	/	22.09	<=30	Pass
		5795	/	/	22.14	<=30	Pass
802.11ac (VHT80)	SISO	5210	/	/	17.87	<=23.98	Pass
		5775	/	/	21.49	<=30	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	14.27	<=23.98	Pass
		5200	RU242	Left	12.92	<=23.98	Pass
		5240	RU242	Left	13.15	<=23.98	Pass
		5745	RU242	Left	16.09	<=30	Pass
		5785	RU242	Left	16.34	<=30	Pass
		5825	RU242	Left	15.88	<=30	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	14.25	<=23.98	Pass
		5230	RU484	Left	14.07	<=23.98	Pass
		5755	RU484	Left	18.08	<=30	Pass
		5795	RU484	Left	18.03	<=30	Pass
802.11ax (HEW80)	SISO	5210	RU996	Left	18.31	<=23.98	Pass
		5775	RU996	Left	19.36	<=30	Pass

3.2 Test Graph

3.2.1 Power

