

1. Duty Cycle

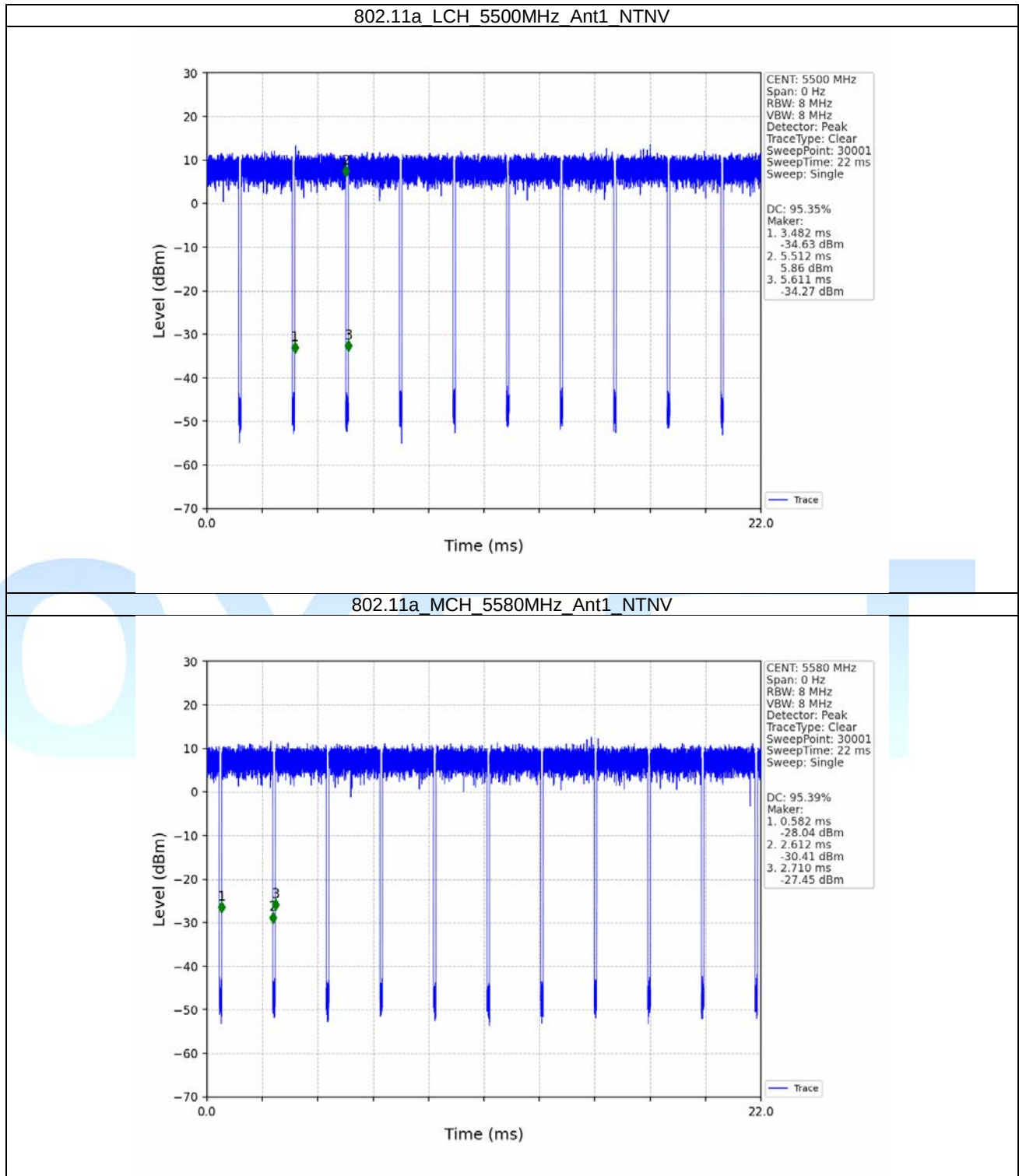
1.1 Test Result

1.1.1 Ant1

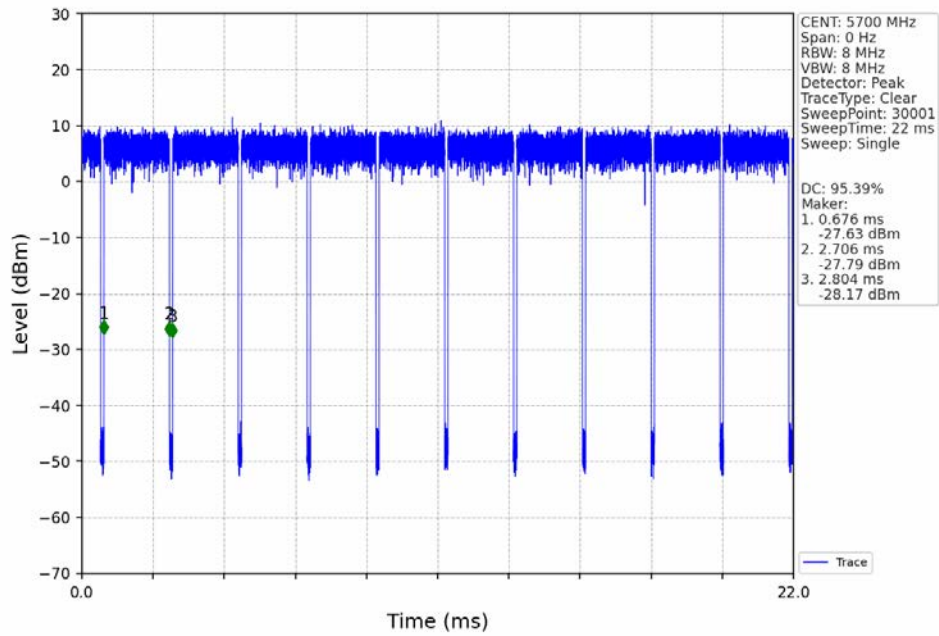
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5500	2.030	2.129	95.35	0.21	0.07
		5580	2.030	2.128	95.39	0.20	0.00
		5700	2.030	2.128	95.39	0.20	0.00
802.11n (HT20)	SISO	5500	1.890	1.993	94.83	0.23	0.25
		5580	1.890	1.992	94.88	0.23	0.22
		5700	1.889	1.992	94.83	0.23	0.26
802.11n (HT40)	SISO	5510	0.929	1.032	90.02	0.46	0.85
		5550	0.929	1.032	90.02	0.46	0.85
		5670	0.930	1.032	90.12	0.45	0.82
802.11ac (VHT20)	SISO	5500	1.902	2.005	94.86	0.23	0.25
		5580	1.901	2.004	94.86	0.23	0.25
		5700	1.902	2.006	94.82	0.23	0.28
802.11ac (VHT40)	SISO	5510	0.938	1.045	89.76	0.47	1.22
		5550	0.937	1.040	90.10	0.45	0.87
		5670	0.938	1.040	90.19	0.45	0.82
802.11ac (VHT80)	SISO	5530	0.458	0.556	82.37	0.84	0.78
		5610	0.457	0.555	82.34	0.84	0.81

1.2 Test Graph

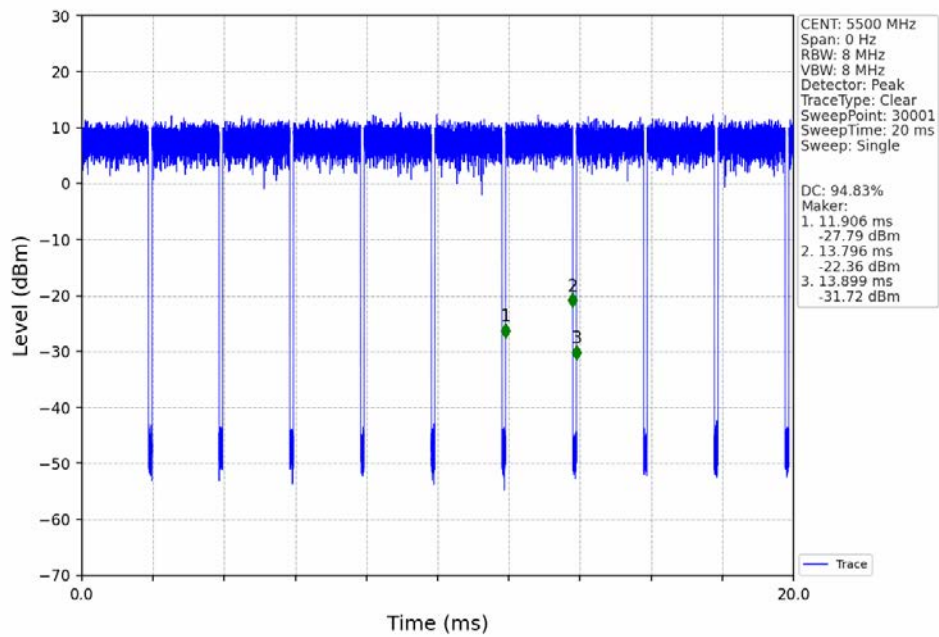
1.2.1 Ant1



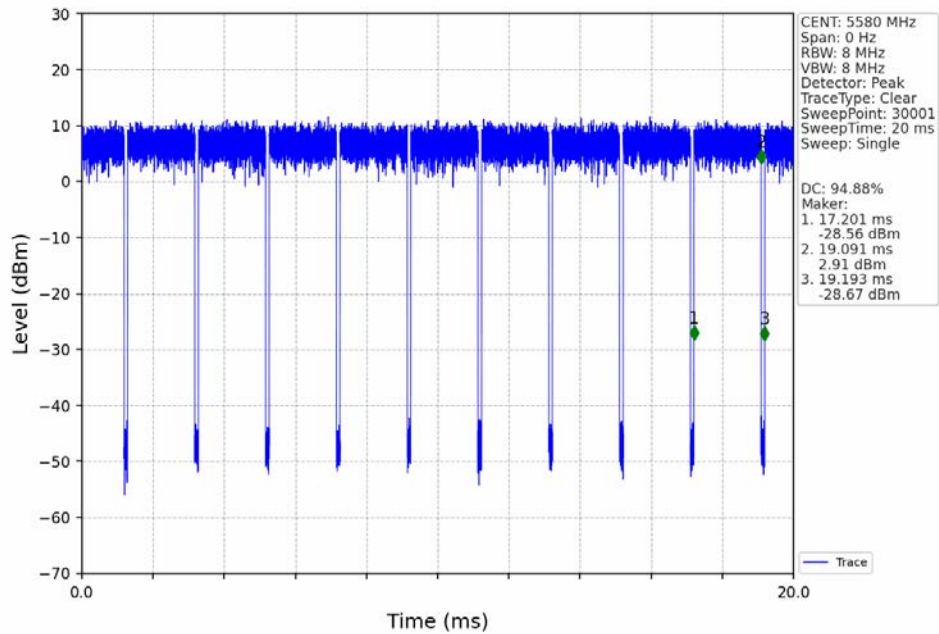
802.11a_HCH_5700MHz_Ant1_NTNV



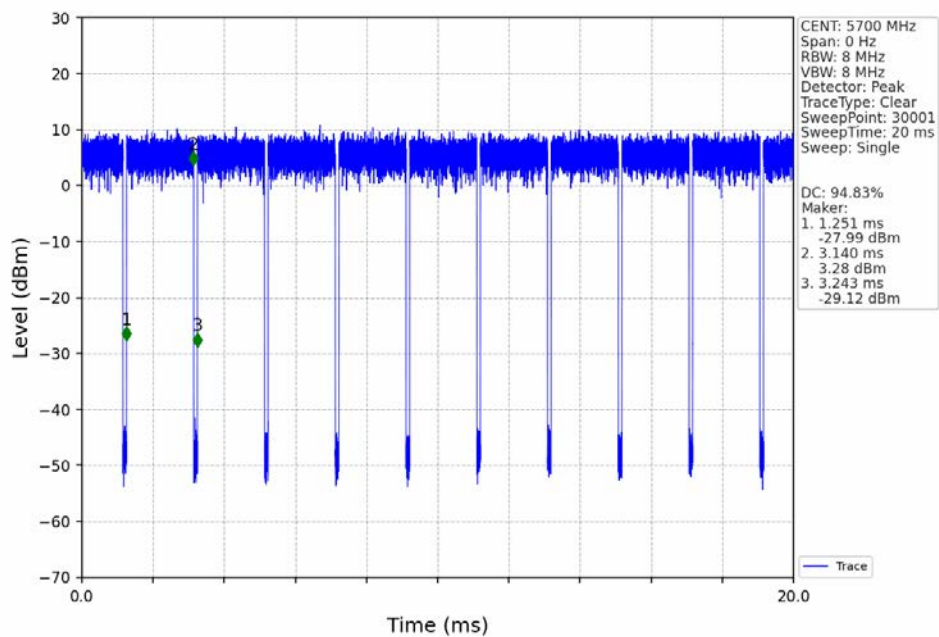
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



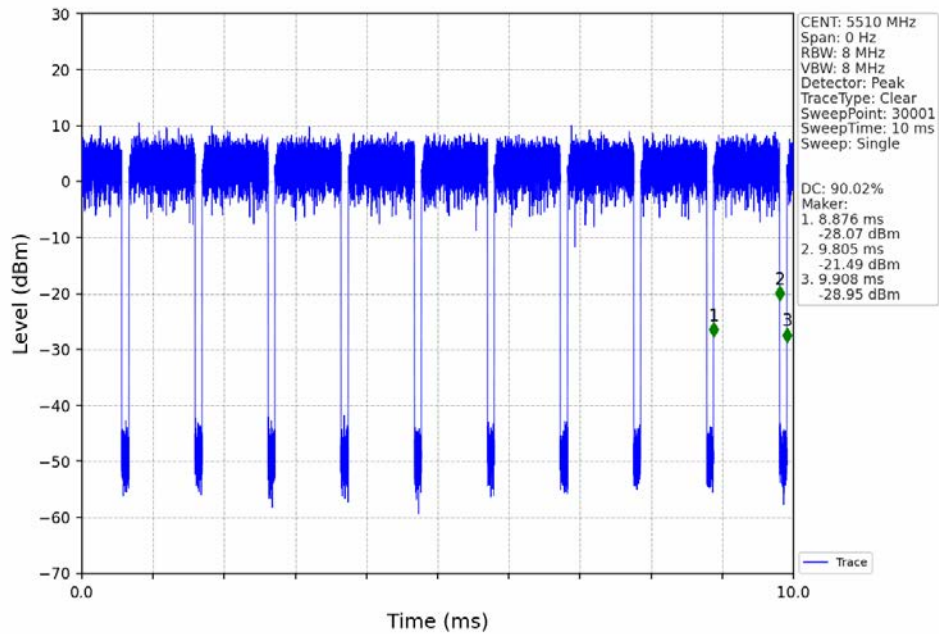
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



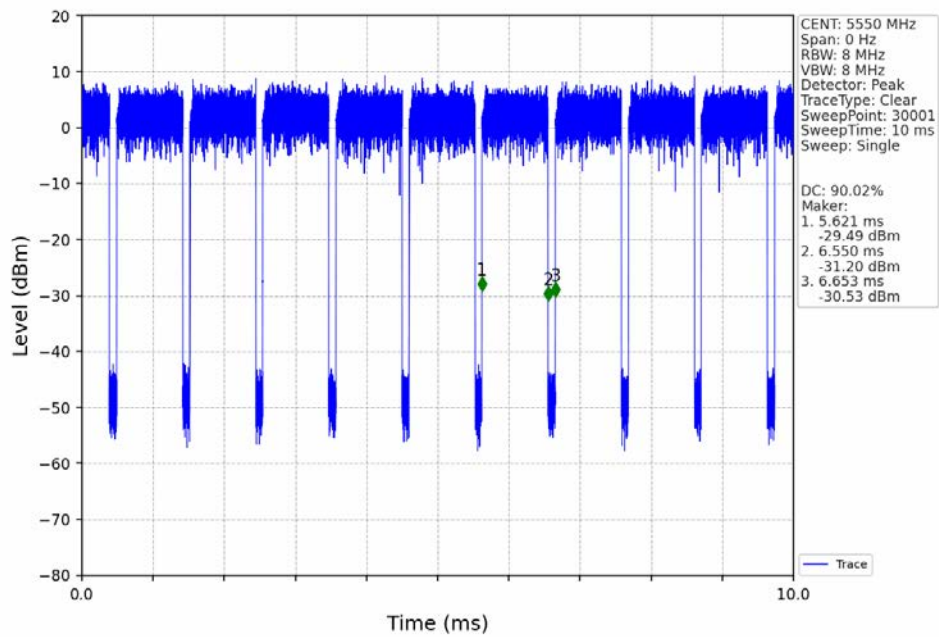
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



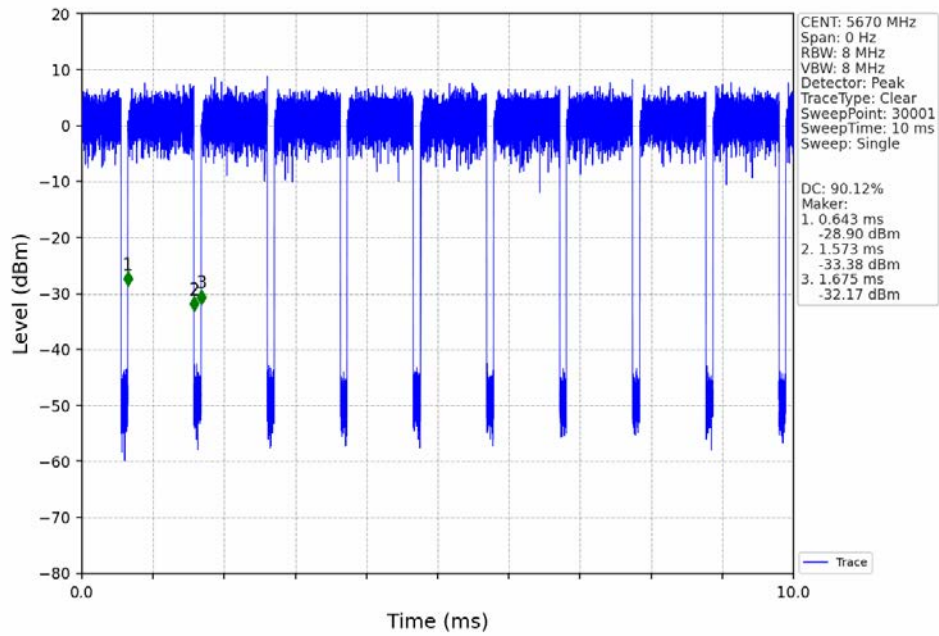
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



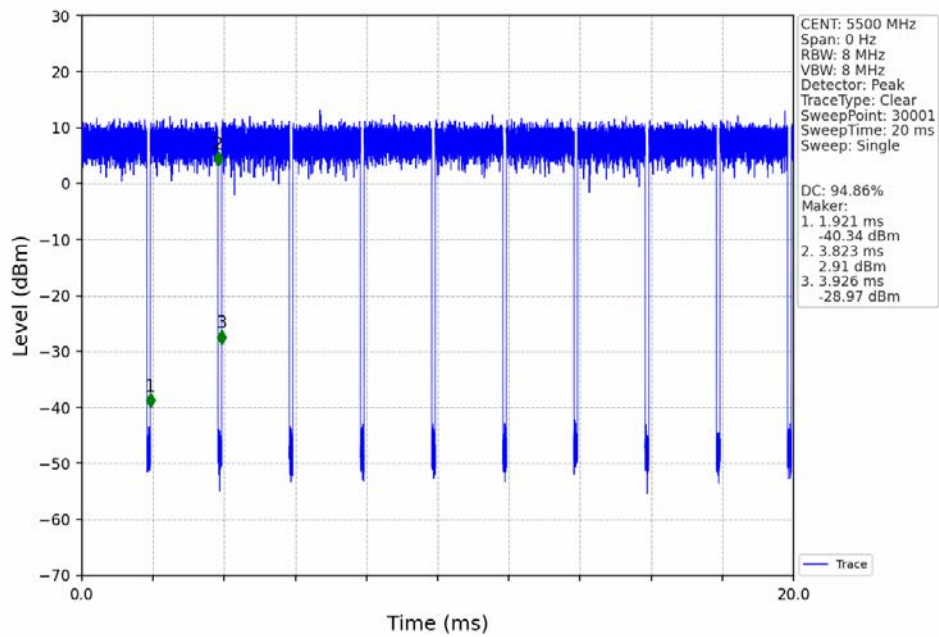
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



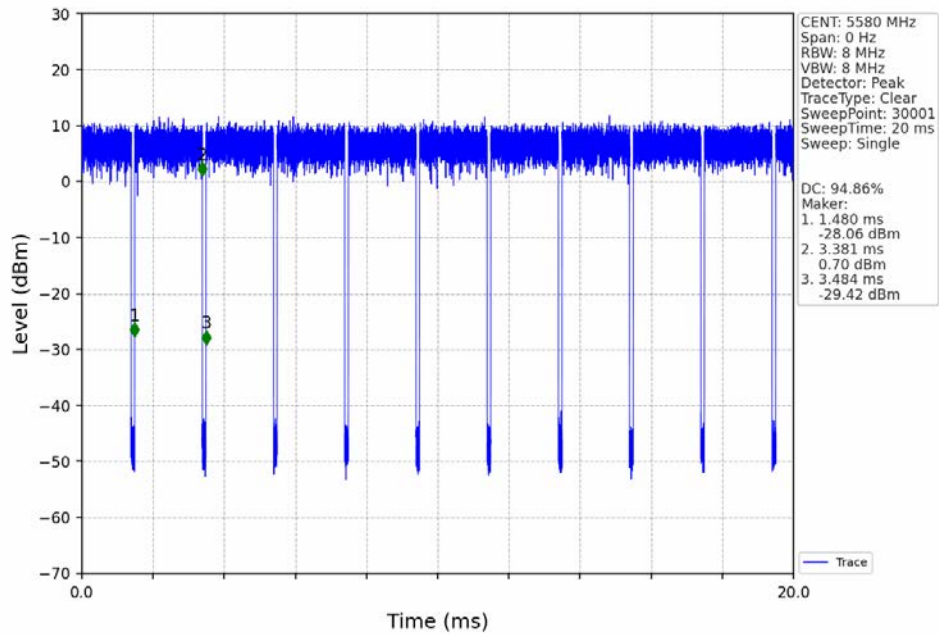
802.11n(HT40) HCH_5670MHz_Ant1_NTNV



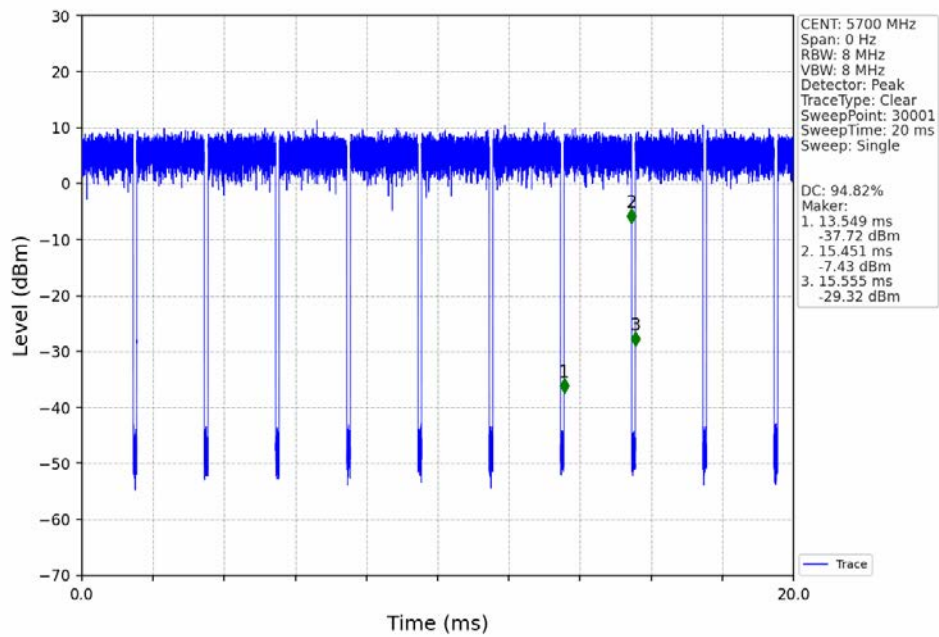
802.11ac(VHT20) LCH_5500MHz_Ant1_NTNV



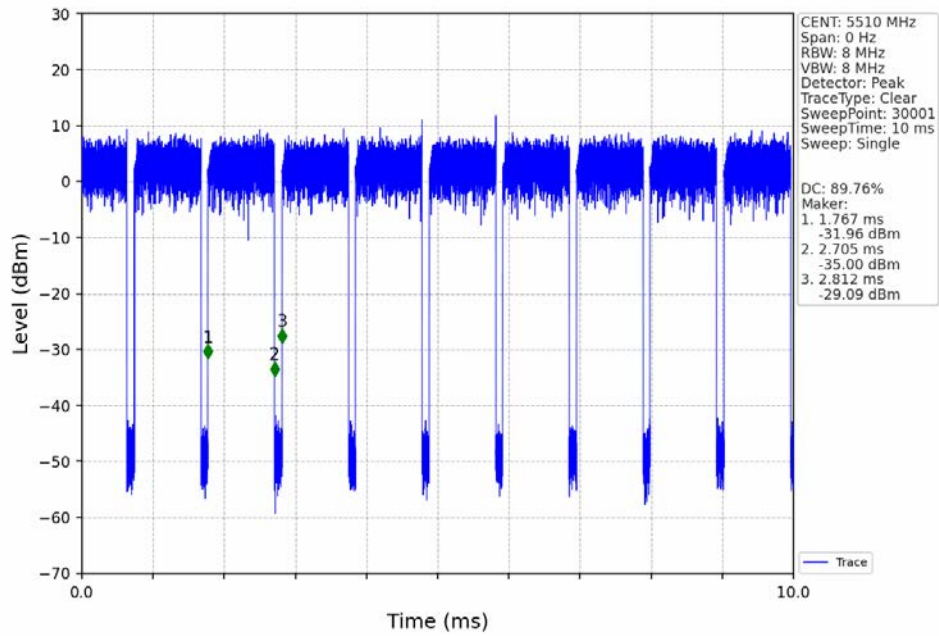
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



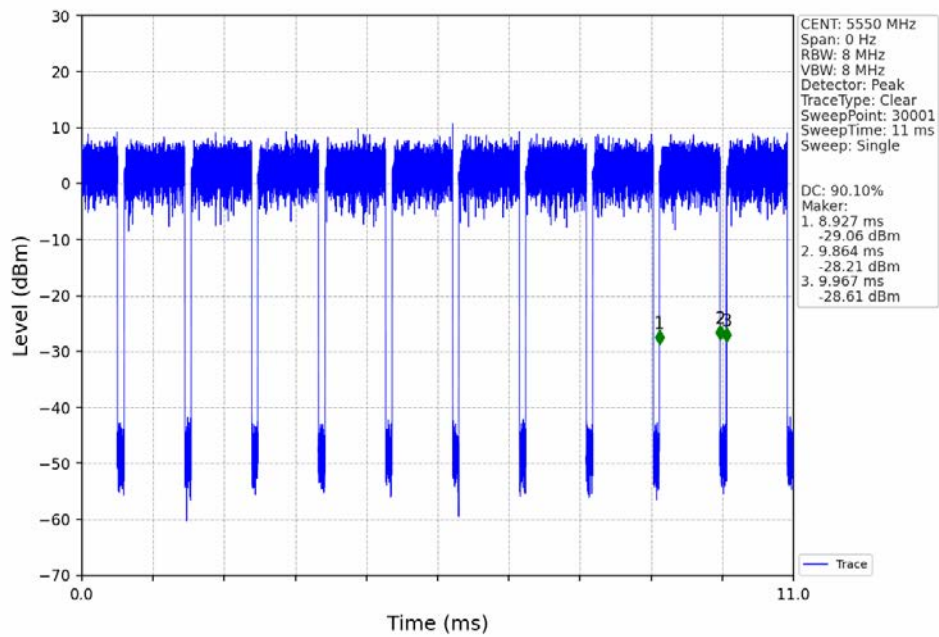
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



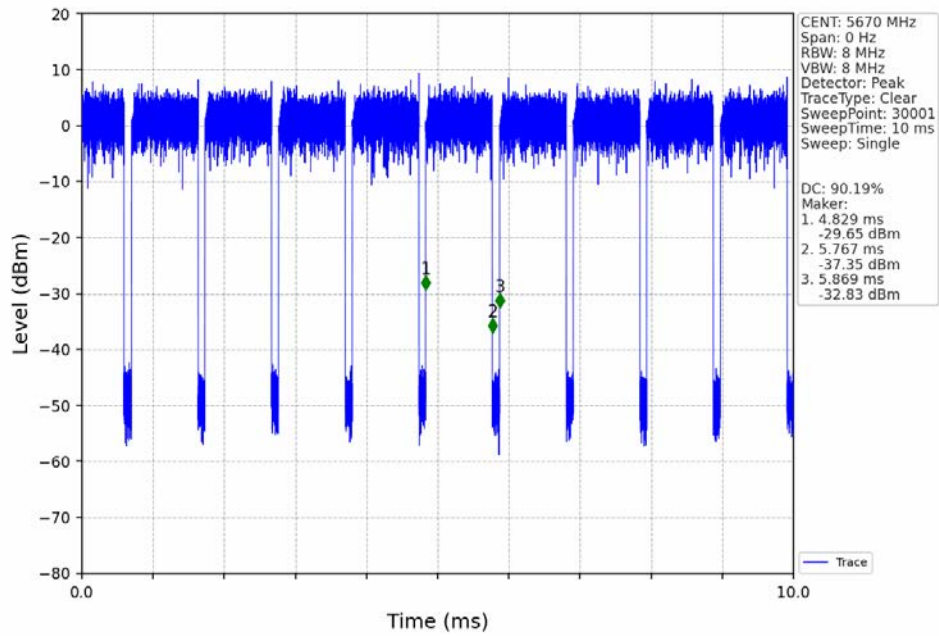
802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



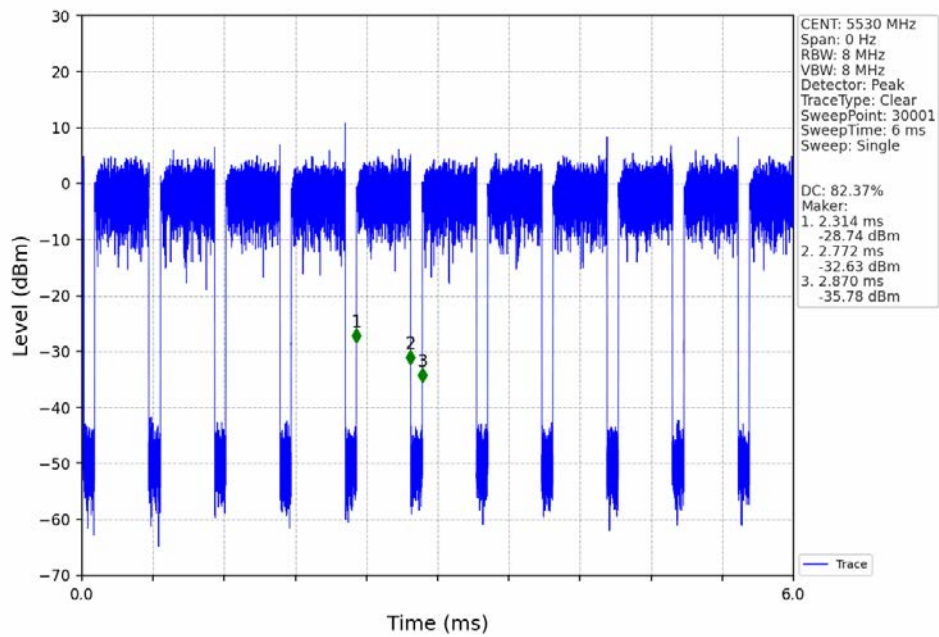
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV

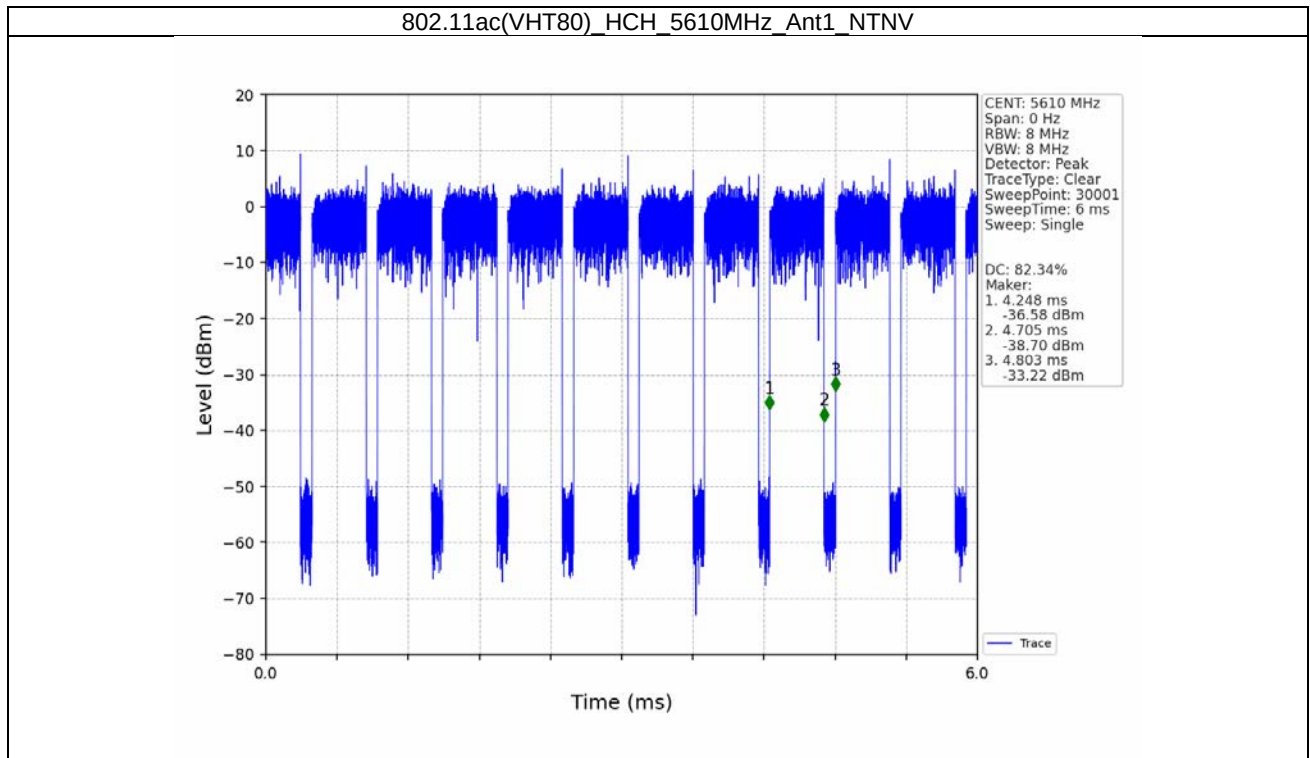


802.11ac(VHT40) HCH_5670MHz_Ant1_NTNV



802.11ac(VHT80) LCH_5530MHz_Ant1_NTNV





2. Bandwidth

2.1 Test Result

2.1.1 OBW

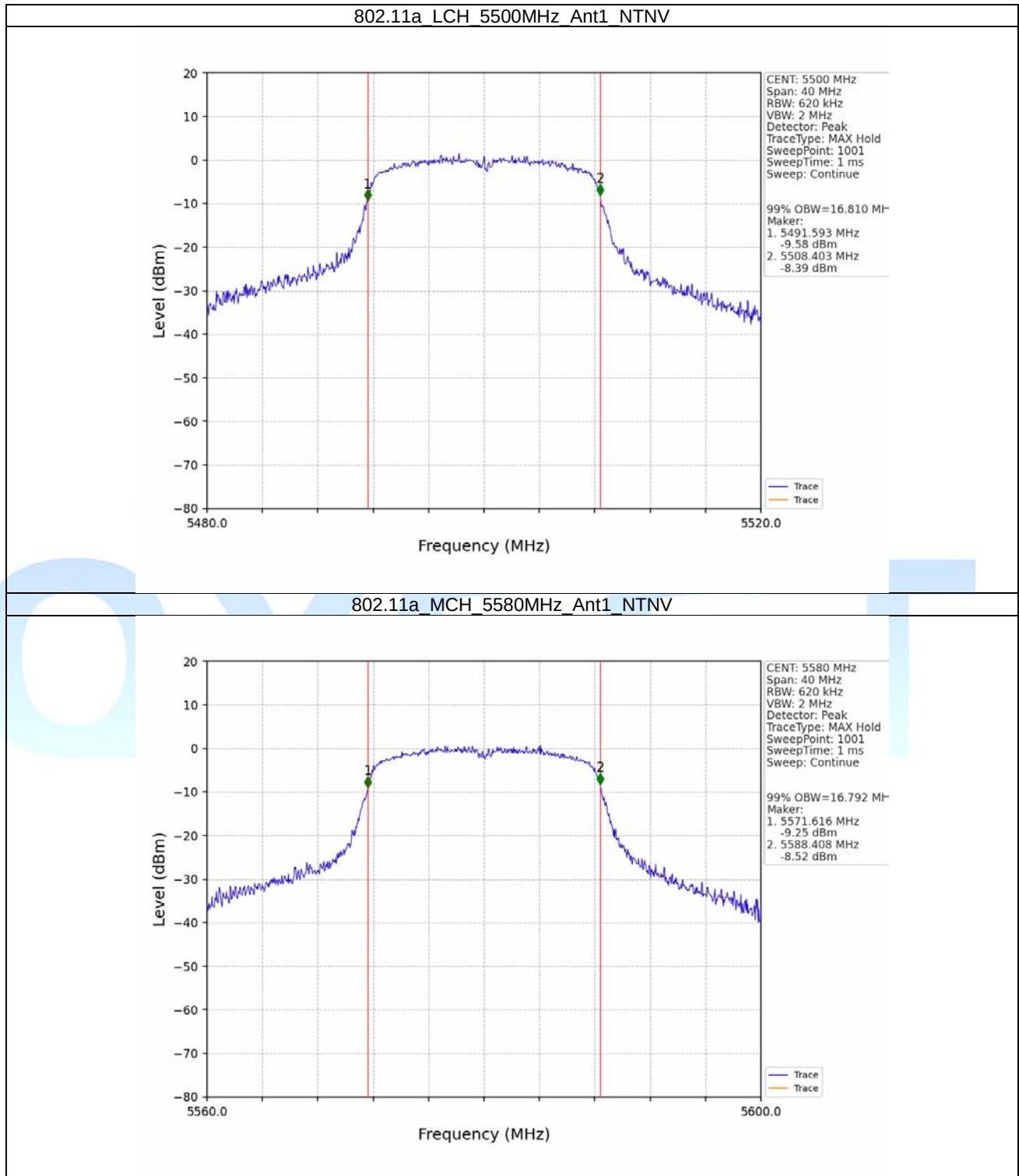
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5500	1	16.810	/	Pass
		5580	1	16.792	/	Pass
		5700	1	16.766	/	Pass
802.11n (HT20)	SISO	5500	1	17.831	/	Pass
		5580	1	17.776	/	Pass
		5700	1	17.713	/	Pass
802.11n (HT40)	SISO	5510	1	36.385	/	Pass
		5550	1	36.256	/	Pass
		5670	1	36.124	/	Pass
802.11ac (VHT20)	SISO	5500	1	17.835	/	Pass
		5580	1	17.696	/	Pass
		5700	1	17.765	/	Pass
802.11ac (VHT40)	SISO	5510	1	36.282	/	Pass
		5550	1	36.172	/	Pass
		5670	1	36.195	/	Pass
802.11ac (VHT80)	SISO	5530	1	75.879	/	Pass
		5610	1	75.605	/	Pass

2.1.2 26dB BW

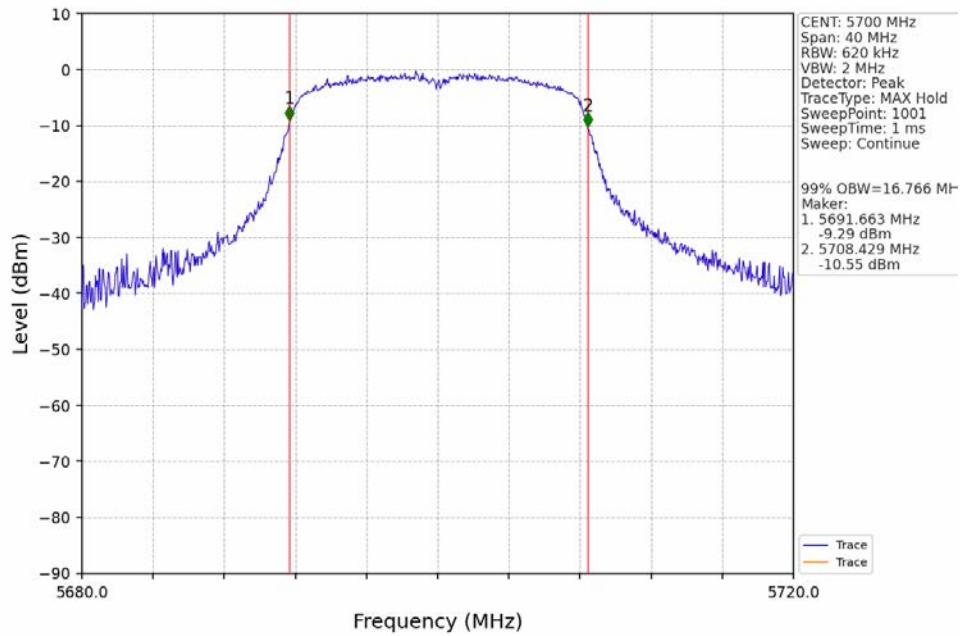
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5500	1	23.259	/	Pass
		5580	1	21.010	/	Pass
		5700	1	20.547	/	Pass
802.11n (HT20)	SISO	5500	1	22.651	/	Pass
		5580	1	21.358	/	Pass
		5700	1	20.792	/	Pass
802.11n (HT40)	SISO	5510	1	49.539	/	Pass
		5550	1	46.603	/	Pass
		5670	1	41.565	/	Pass
802.11ac (VHT20)	SISO	5500	1	22.326	/	Pass
		5580	1	20.778	/	Pass
		5700	1	20.895	/	Pass
802.11ac (VHT40)	SISO	5510	1	45.735	/	Pass
		5550	1	43.881	/	Pass
		5670	1	42.010	/	Pass
802.11ac (VHT80)	SISO	5530	1	116.260	/	Pass
		5610	1	97.924	/	Pass

2.2 Test Graph

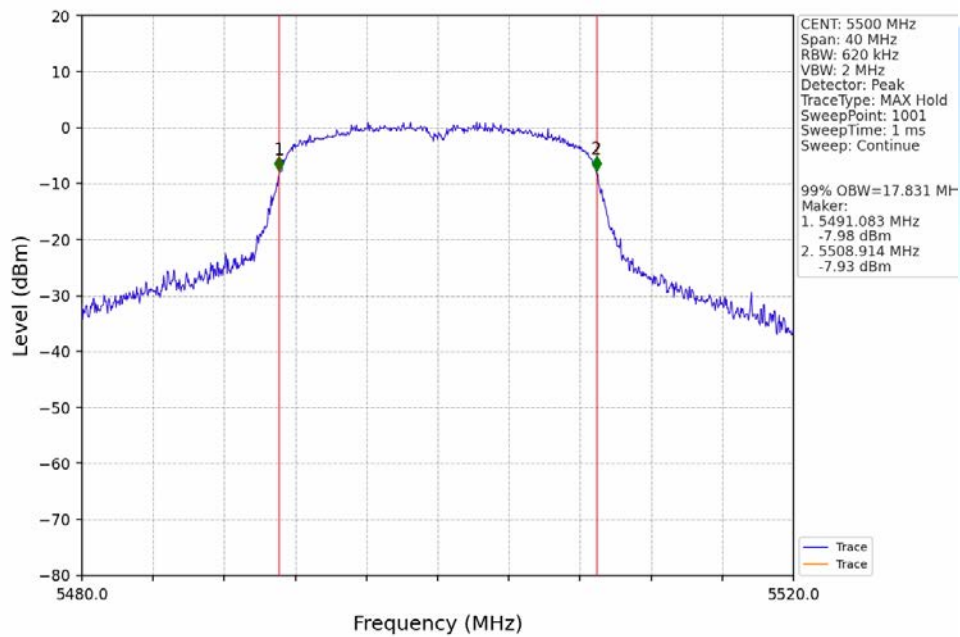
2.2.1 OBW



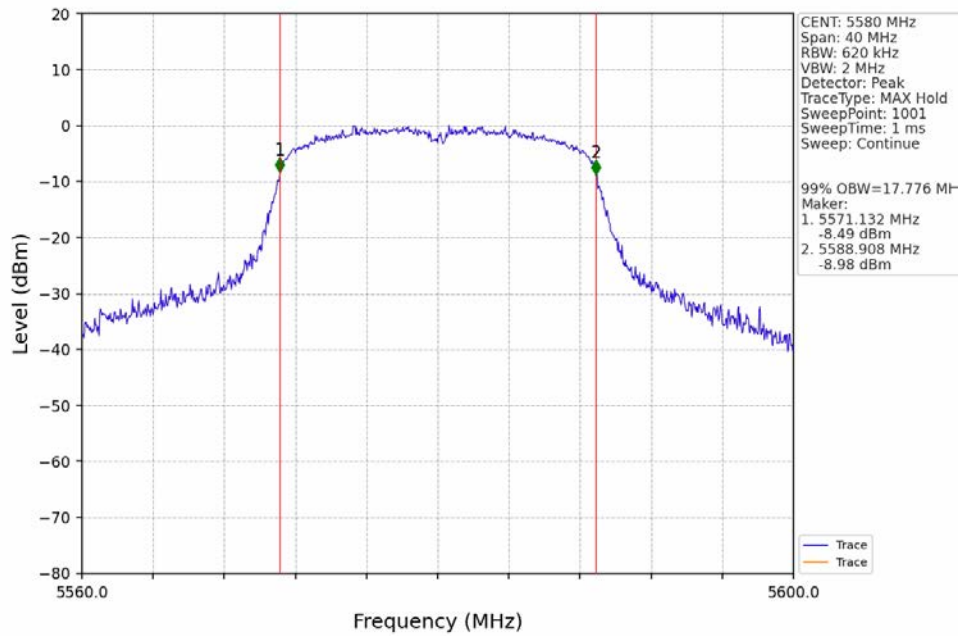
802.11a_HCH_5700MHz_Ant1_NTNV



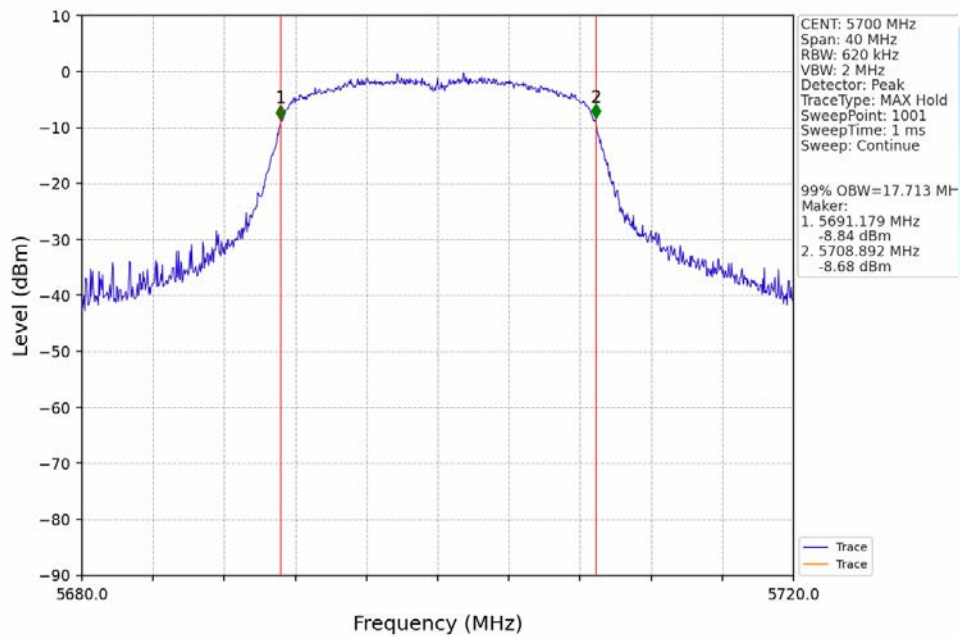
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



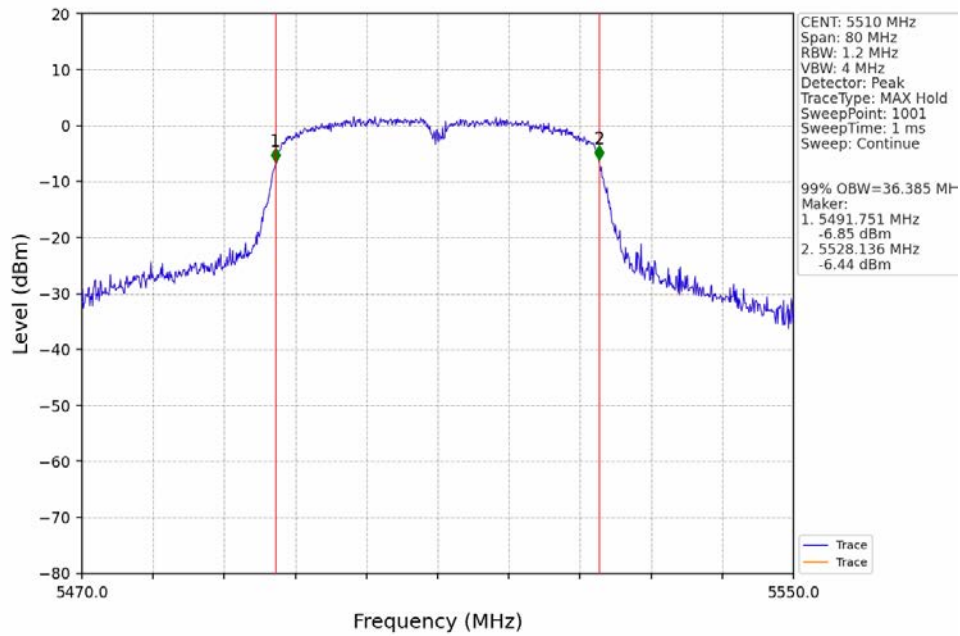
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



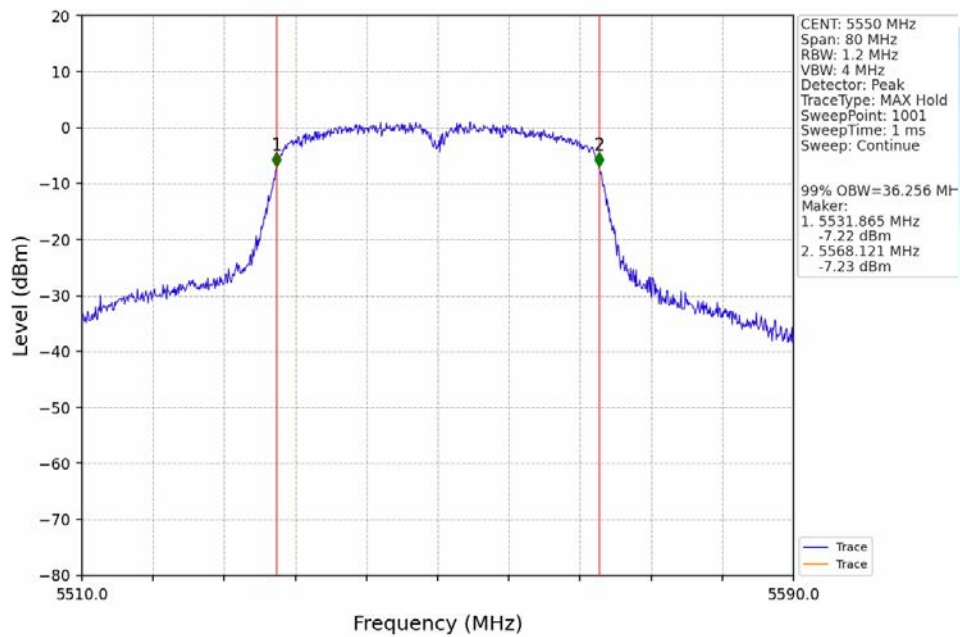
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



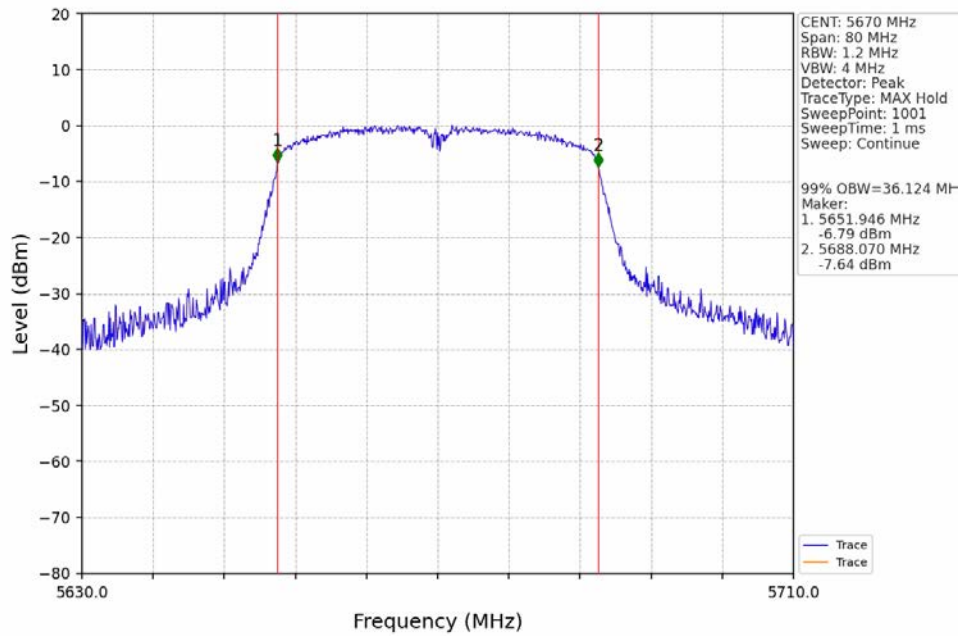
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



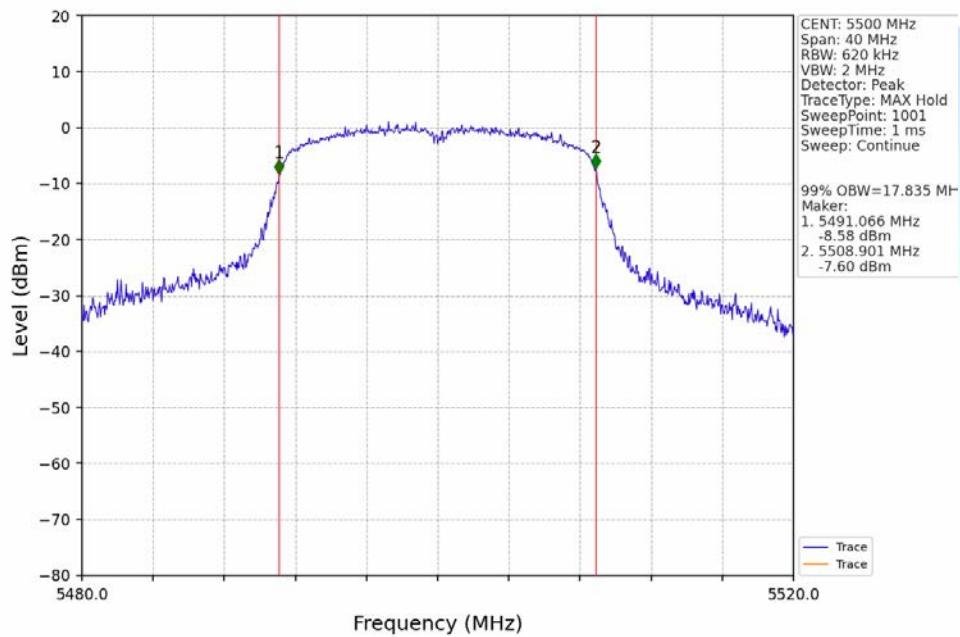
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



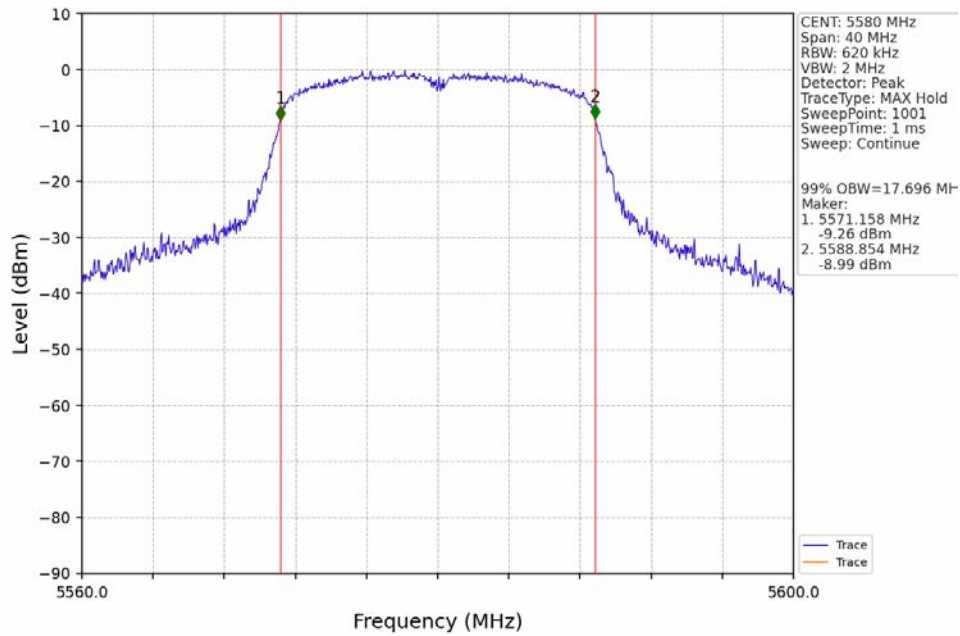
802.11n(HT40) HCH_5670MHz_Ant1_NTNV



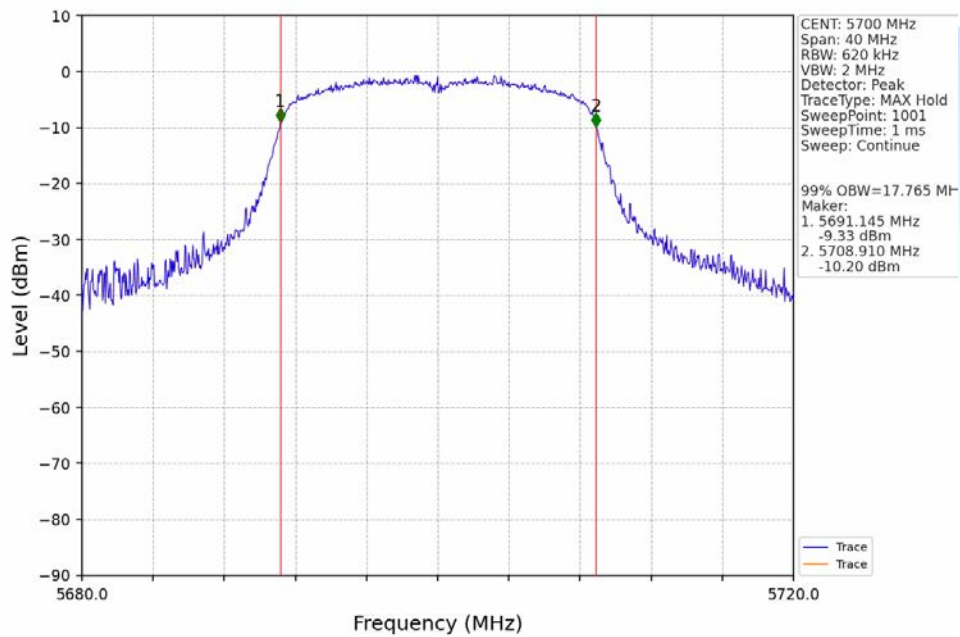
802.11ac(VHT20) LCH_5500MHz_Ant1_NTNV



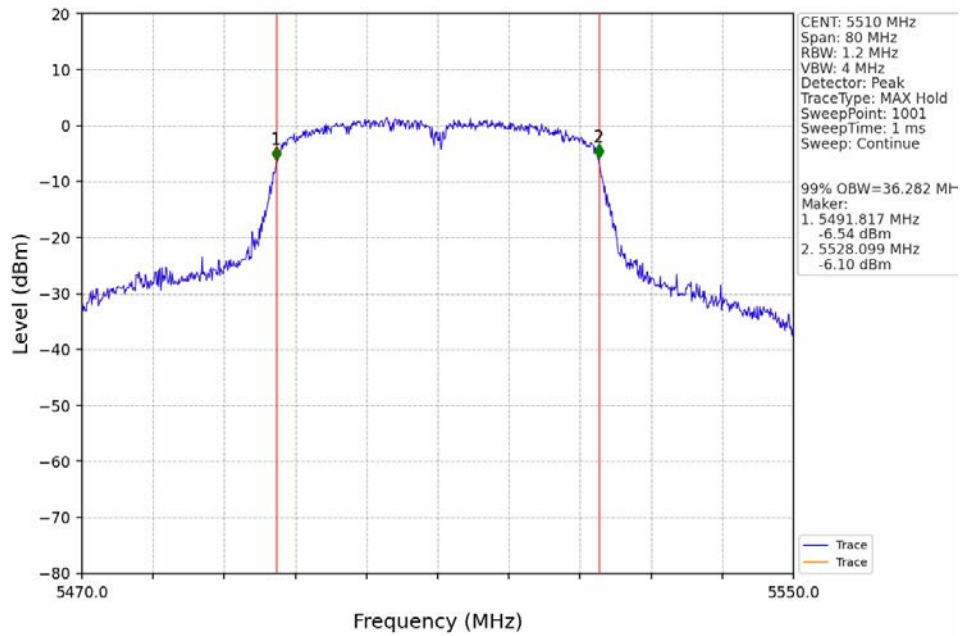
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



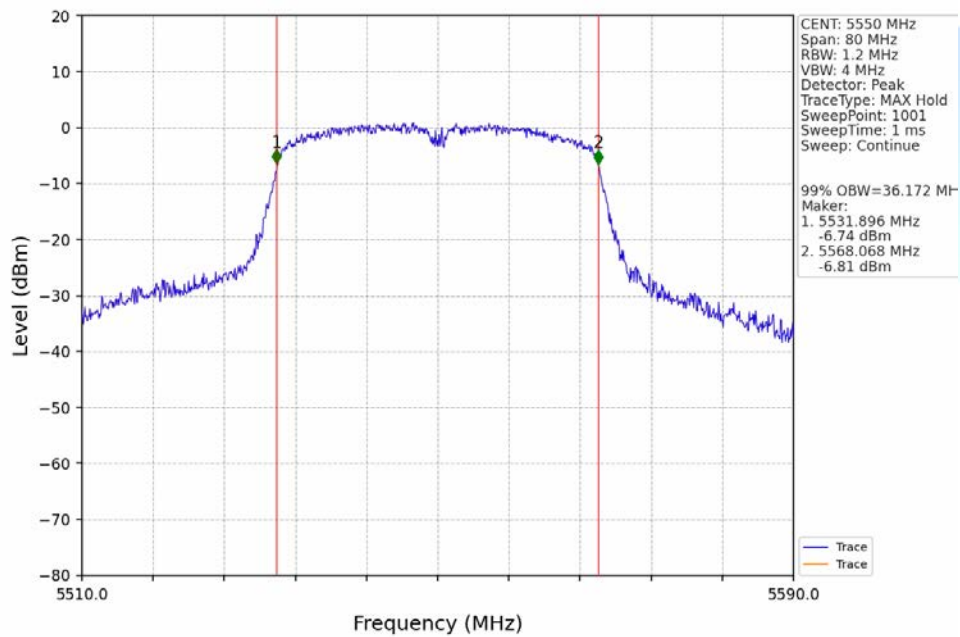
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



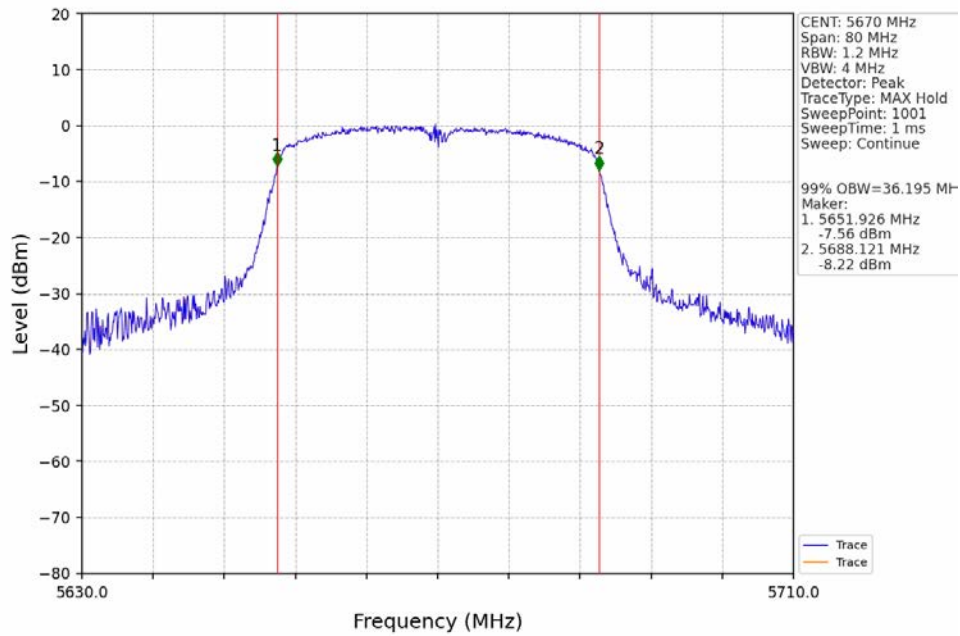
802.11ac(VHT40) LCH_5510MHz_Ant1_NTNV



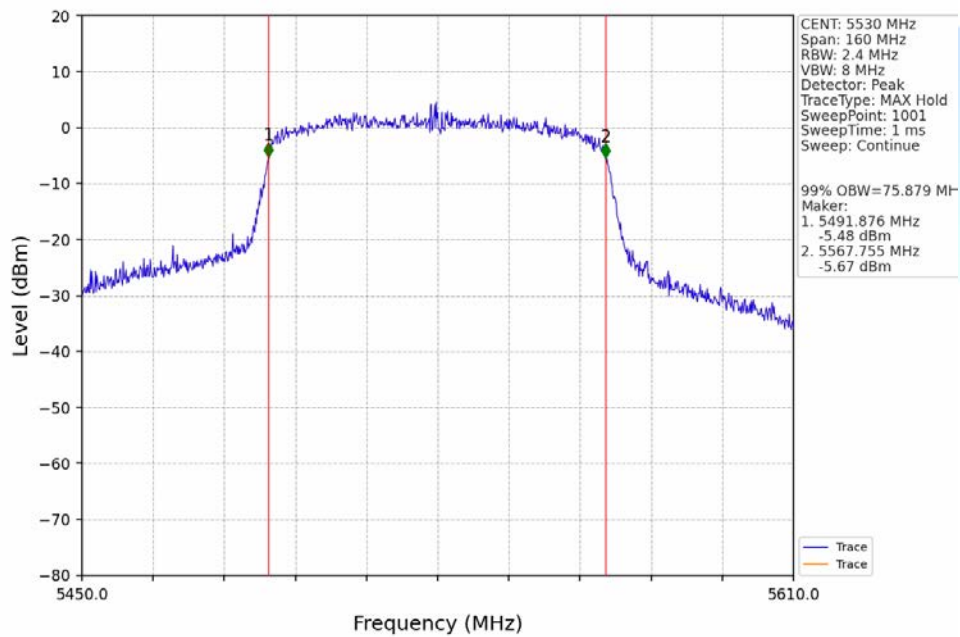
802.11ac(VHT40) MCH_5550MHz_Ant1_NTNV

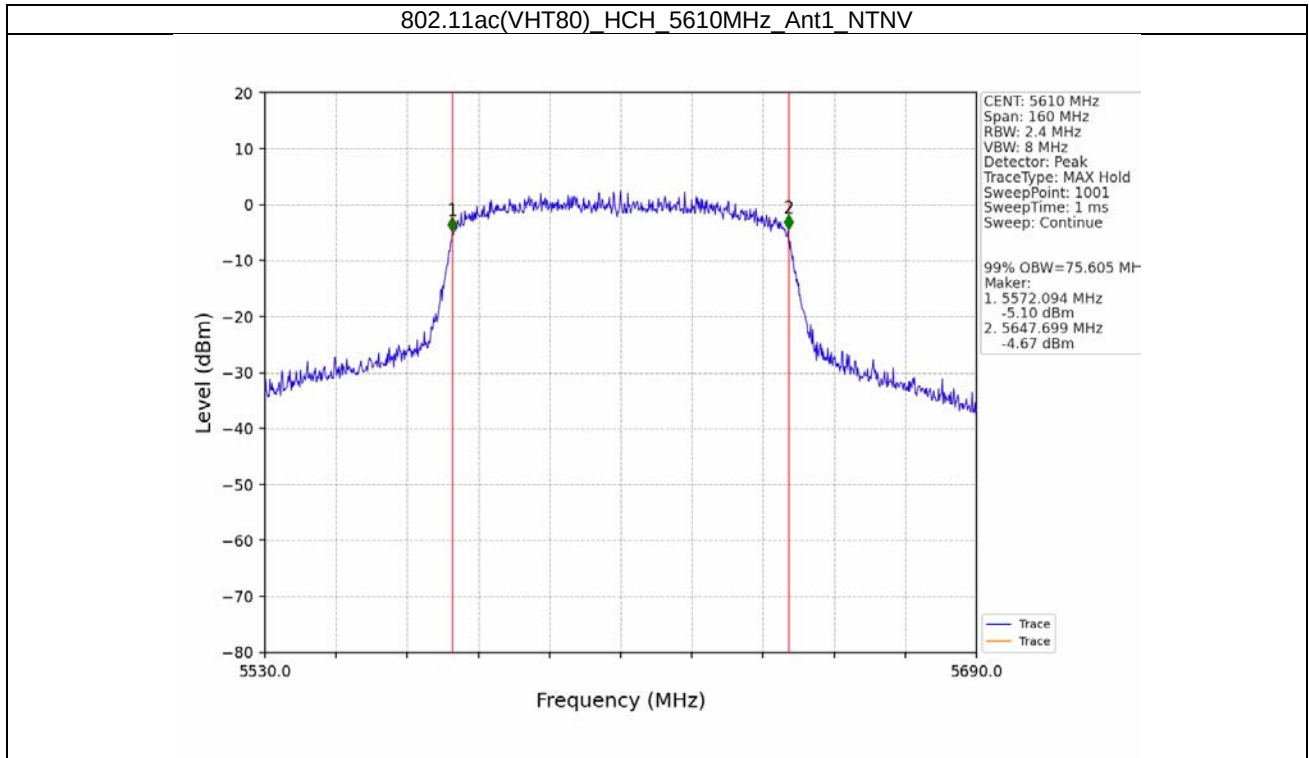


802.11ac(VHT40) HCH_5670MHz_Ant1_NTNV

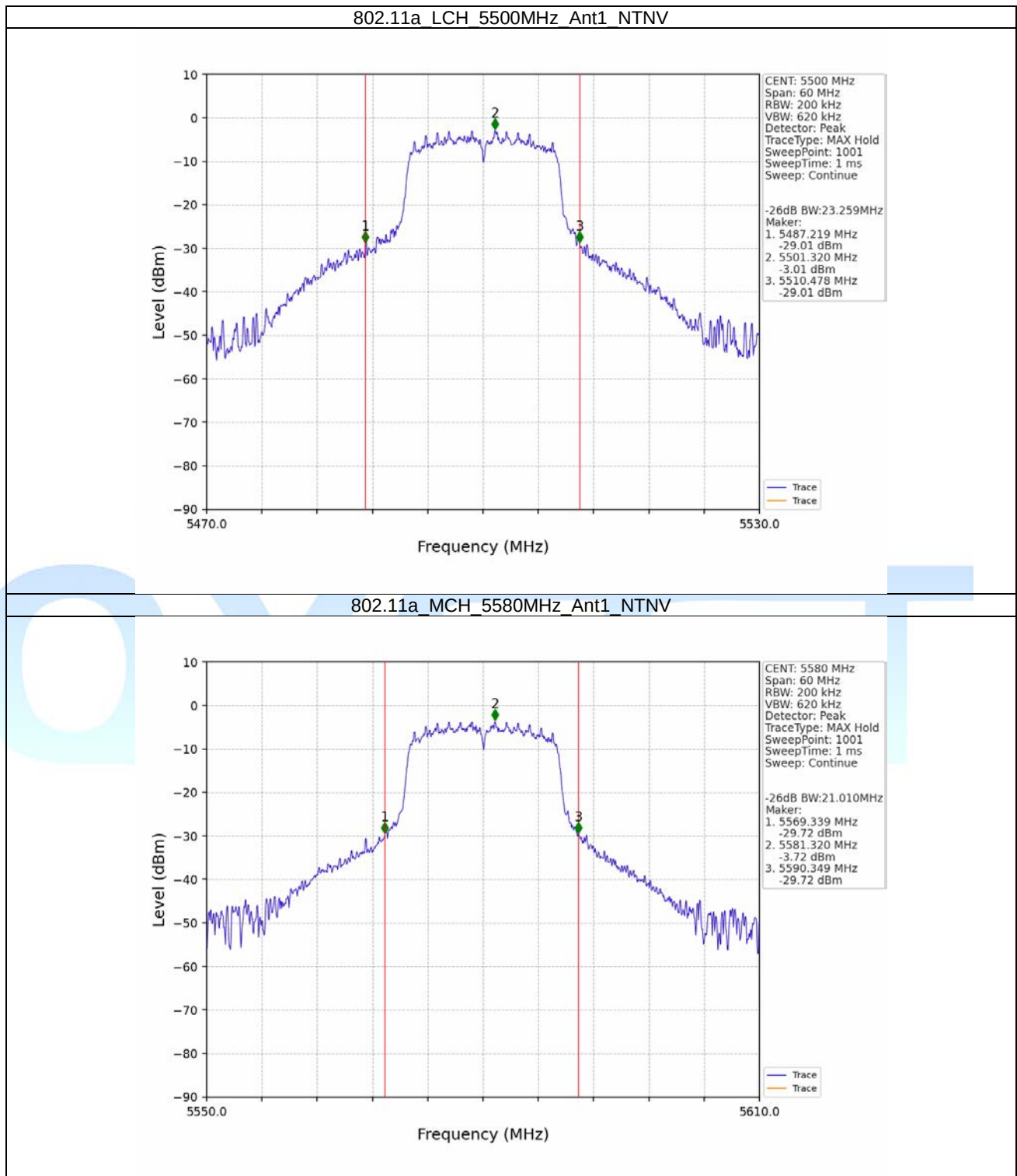


802.11ac(VHT80) LCH_5530MHz_Ant1_NTNV

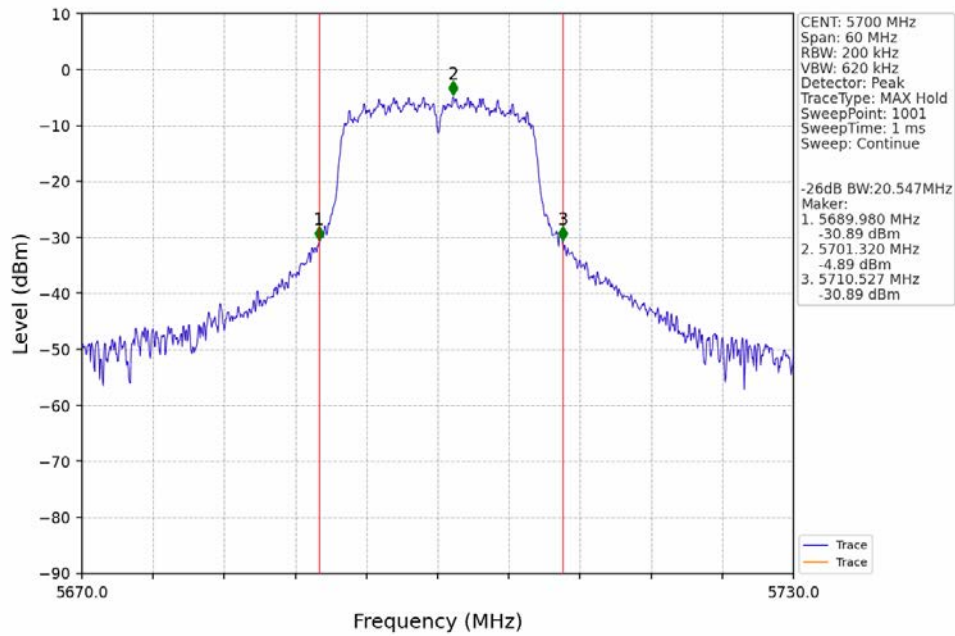




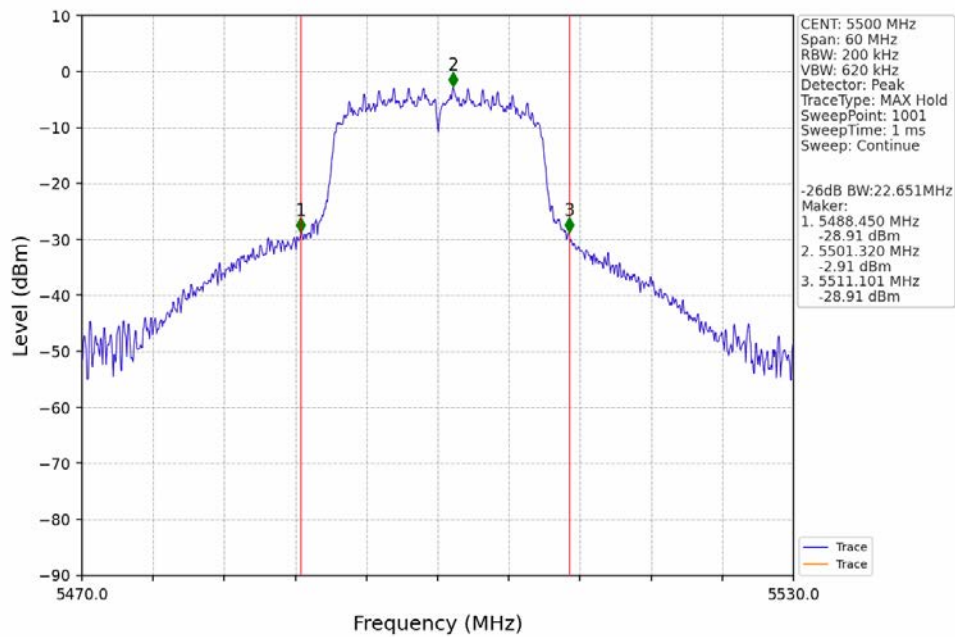
2.2.2 26dB BW



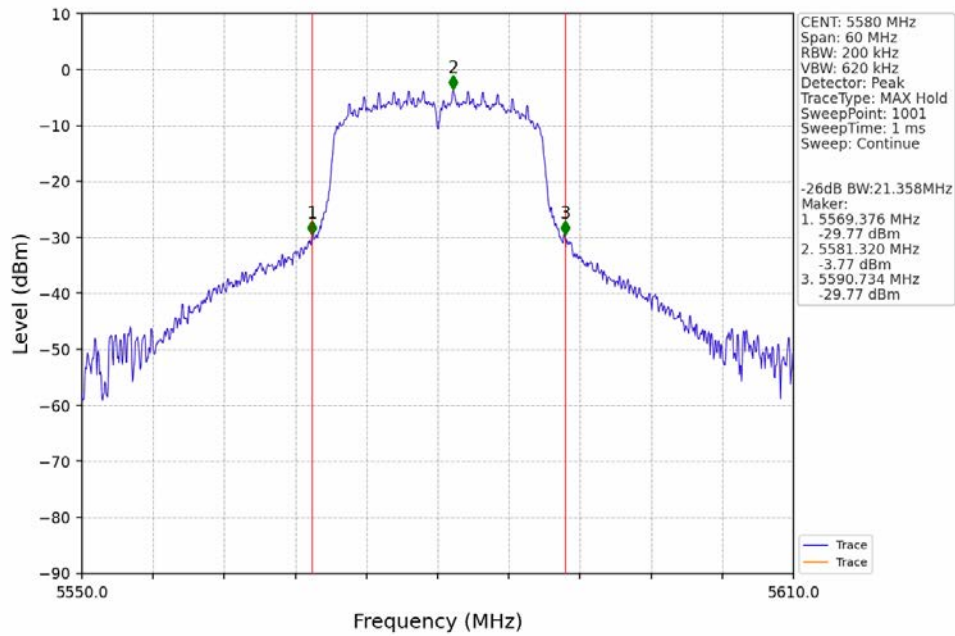
802.11a_HCH_5700MHz_Ant1_NTNV



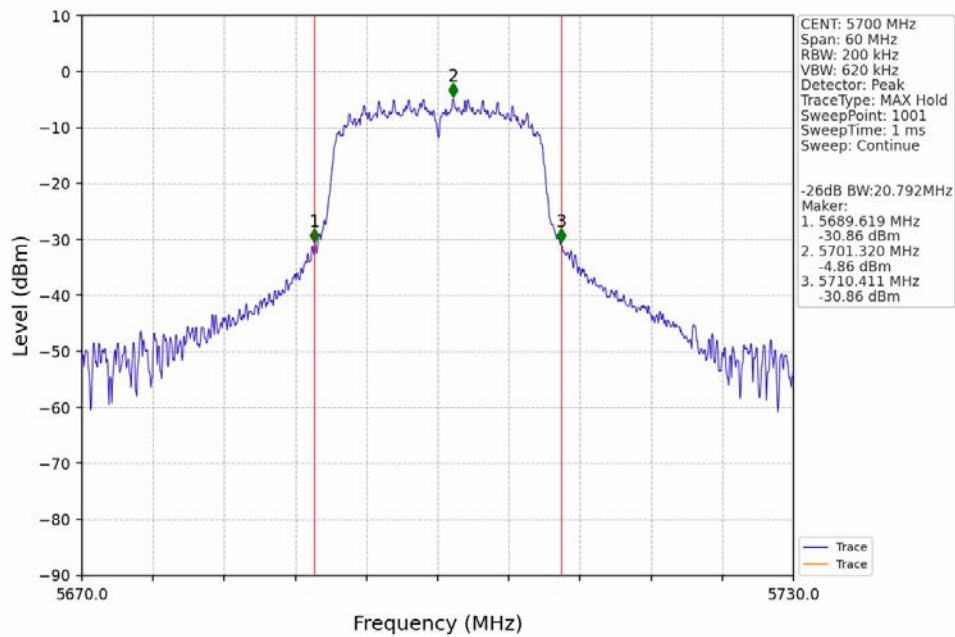
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



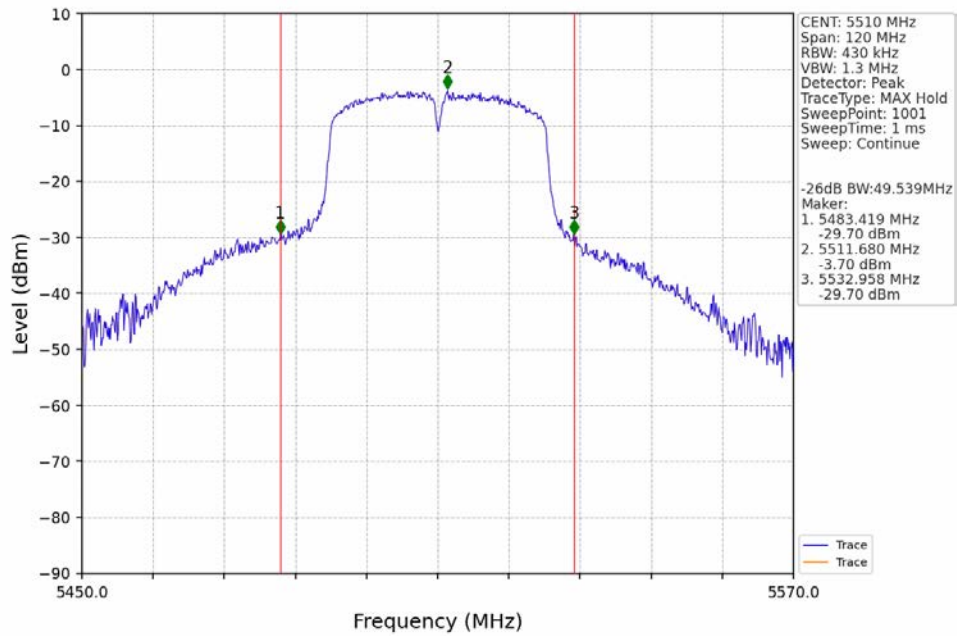
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



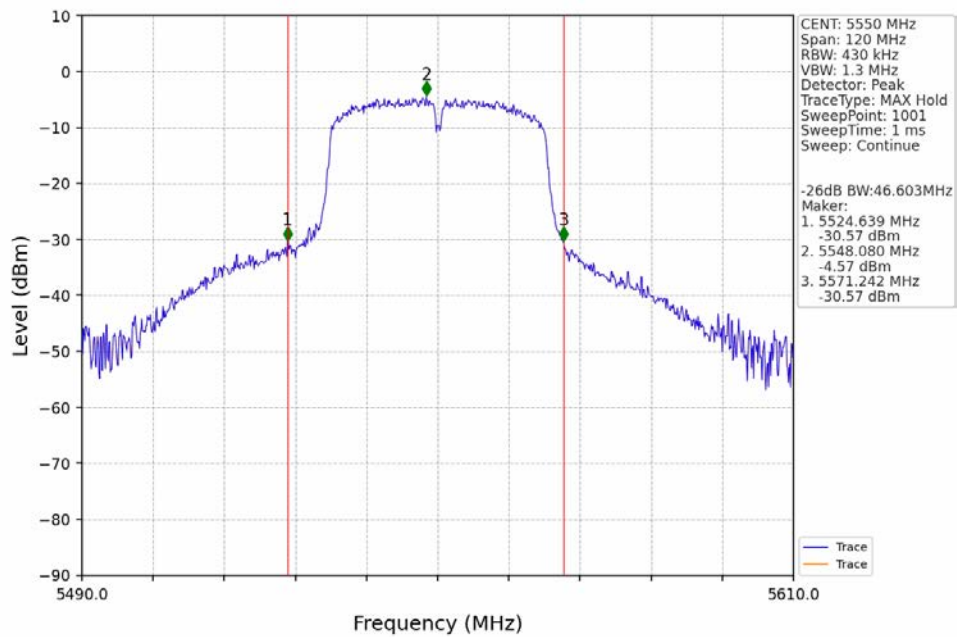
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



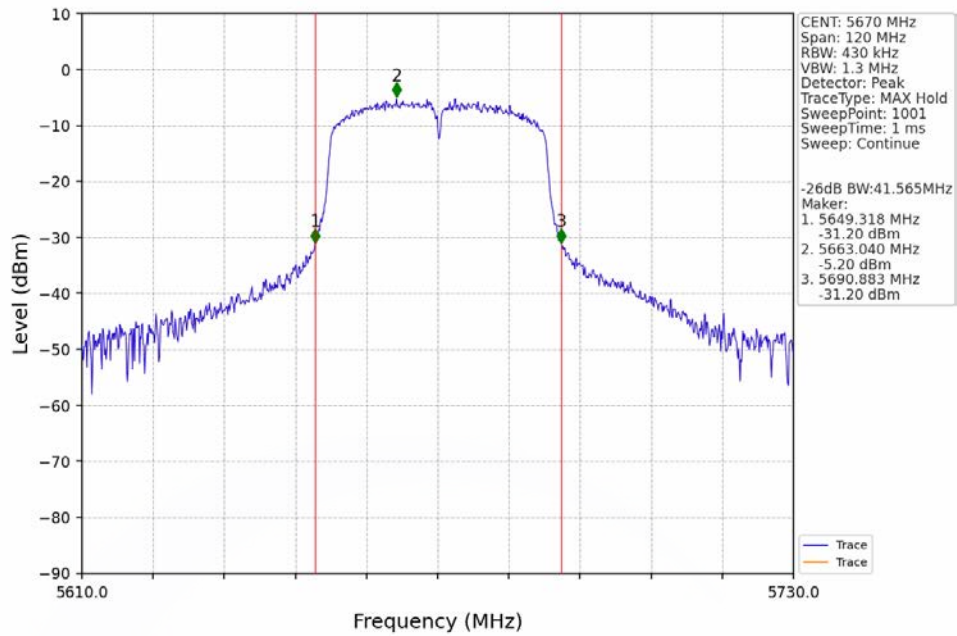
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



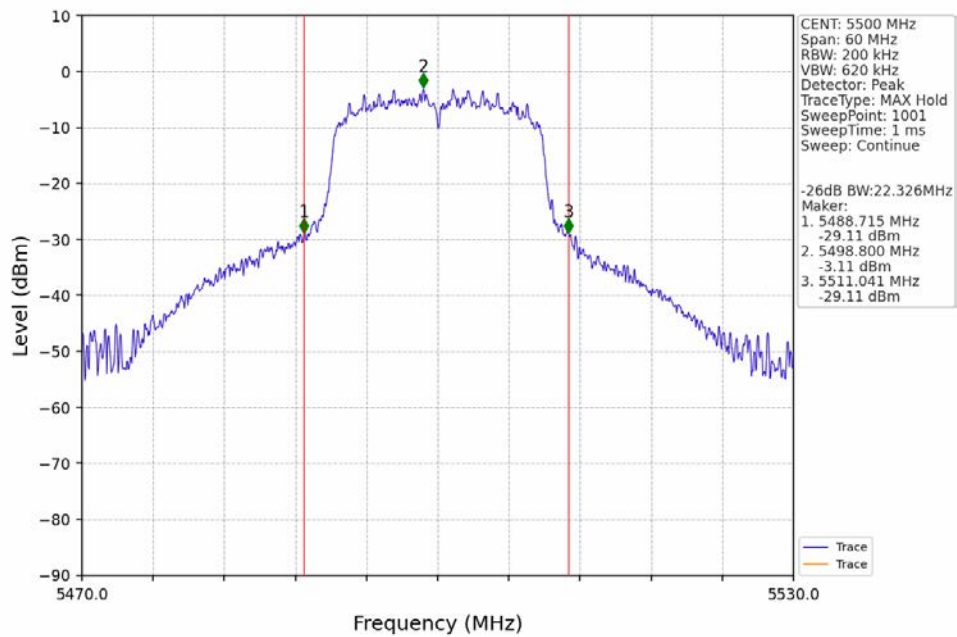
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



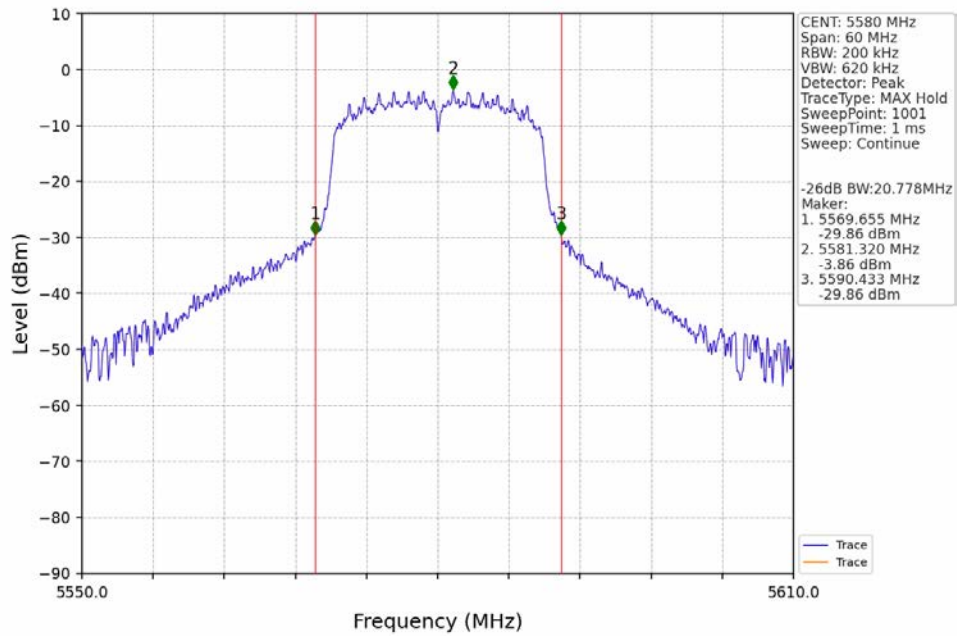
802.11n(HT40) HCH_5670MHz_Ant1_NTNV



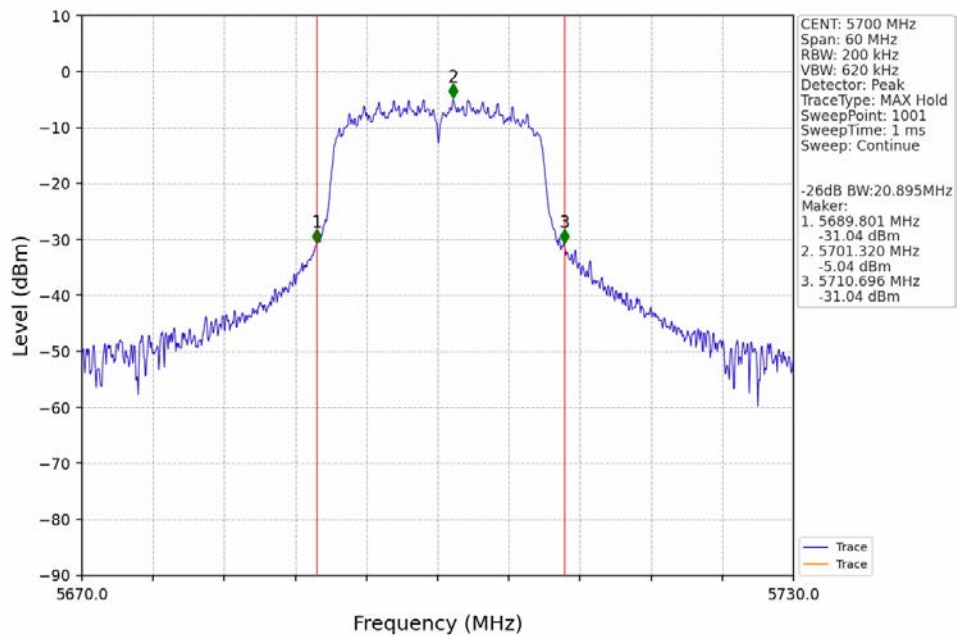
802.11ac(VHT20) LCH_5500MHz_Ant1_NTNV



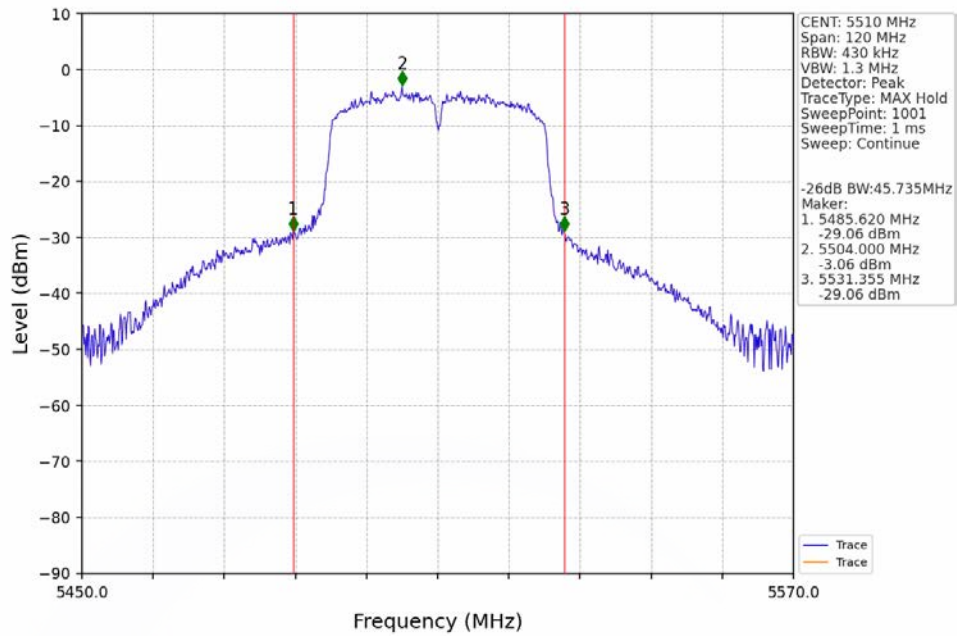
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



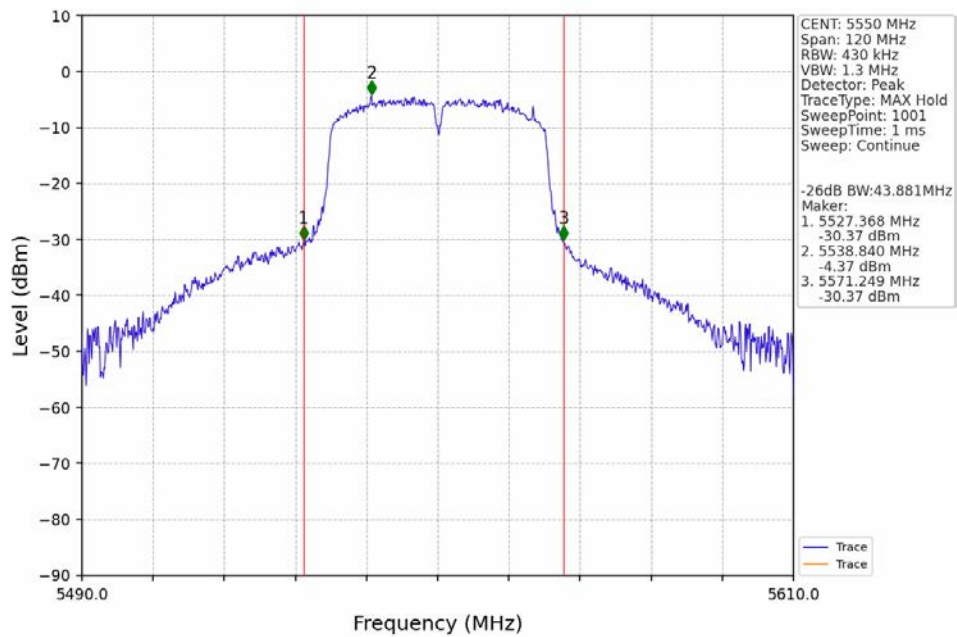
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



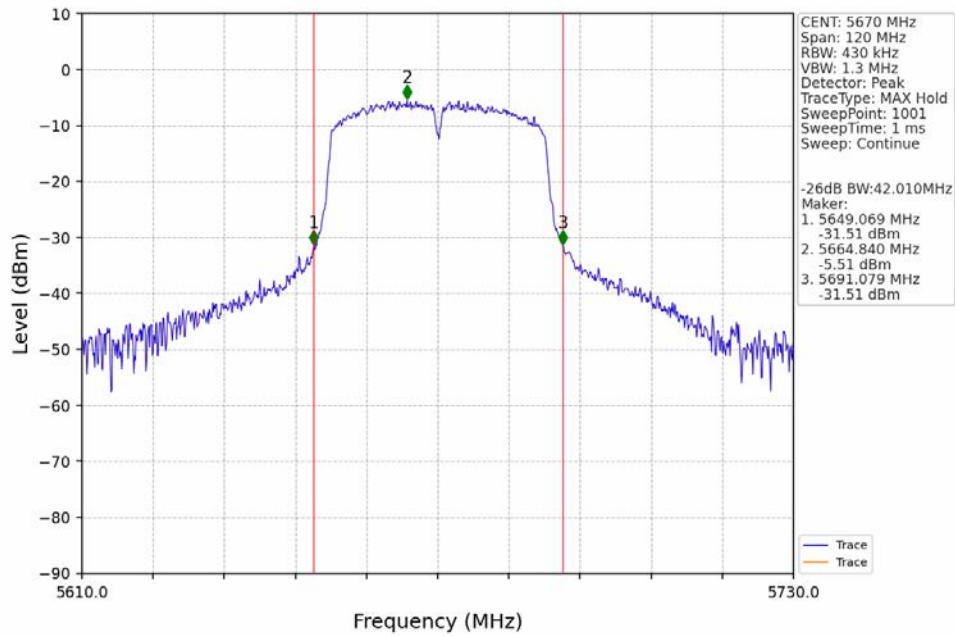
802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



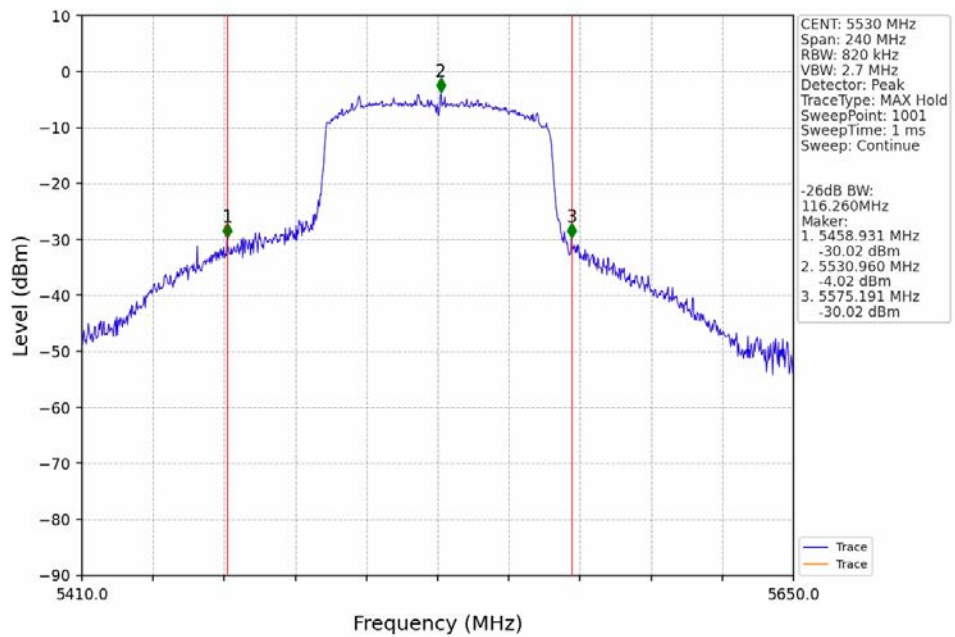
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV

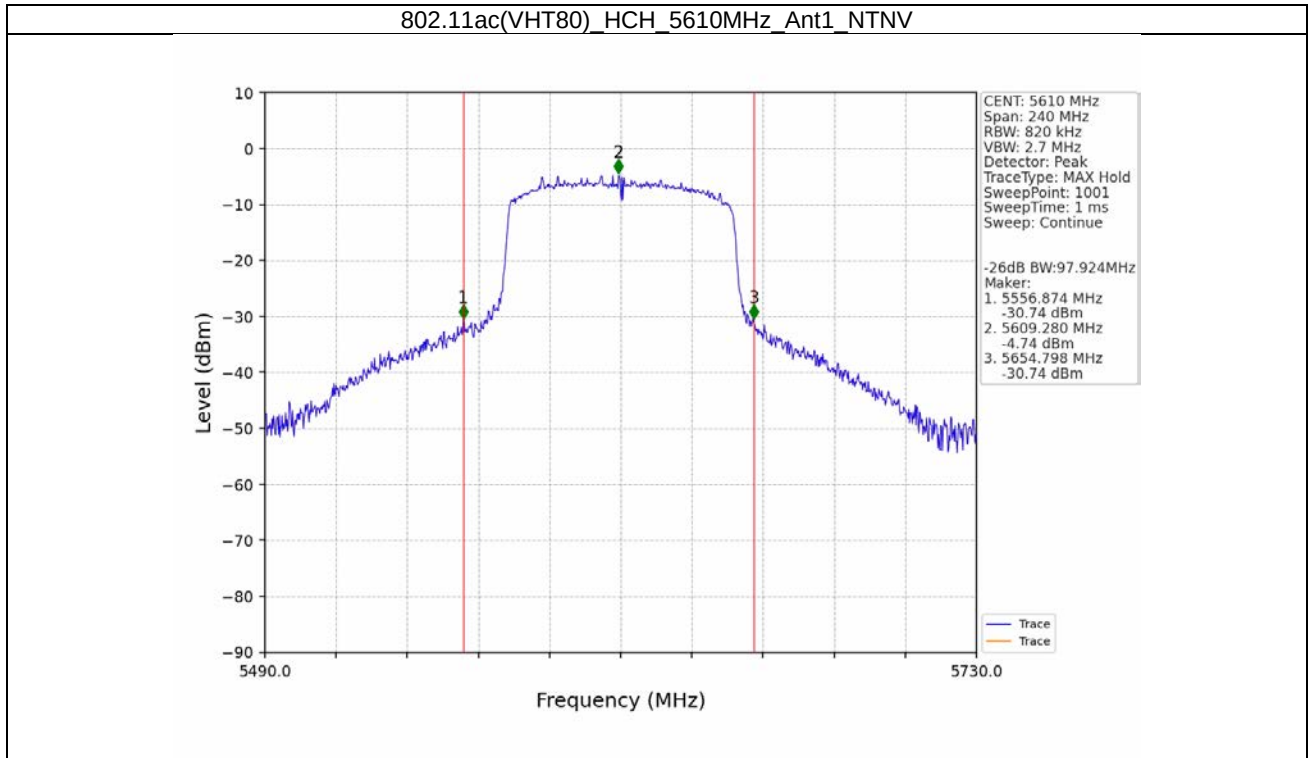


802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV





3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5500	5.99	<=23.98	Pass
		5580	5.25	<=23.98	Pass
		5700	4.25	<=23.98	Pass
802.11n (HT20)	SISO	5500	5.89	<=23.98	Pass
		5580	5.10	<=23.98	Pass
		5700	4.10	<=23.98	Pass
802.11n (HT40)	SISO	5510	5.60	<=23.98	Pass
		5550	4.97	<=23.98	Pass
		5670	4.01	<=23.98	Pass
802.11ac (VHT20)	SISO	5500	5.71	<=23.98	Pass
		5580	5.04	<=23.98	Pass
		5700	3.93	<=23.98	Pass
802.11ac (VHT40)	SISO	5510	5.60	<=23.98	Pass
		5550	5.00	<=23.98	Pass
		5670	3.94	<=23.98	Pass
802.11ac (VHT80)	SISO	5530	5.54	<=23.98	Pass
		5610	4.89	<=23.98	Pass

Note1: Antenna Gain: Ant1: 3.84dBi;

4. Maximum Power Spectral Density

4.1 Test Result

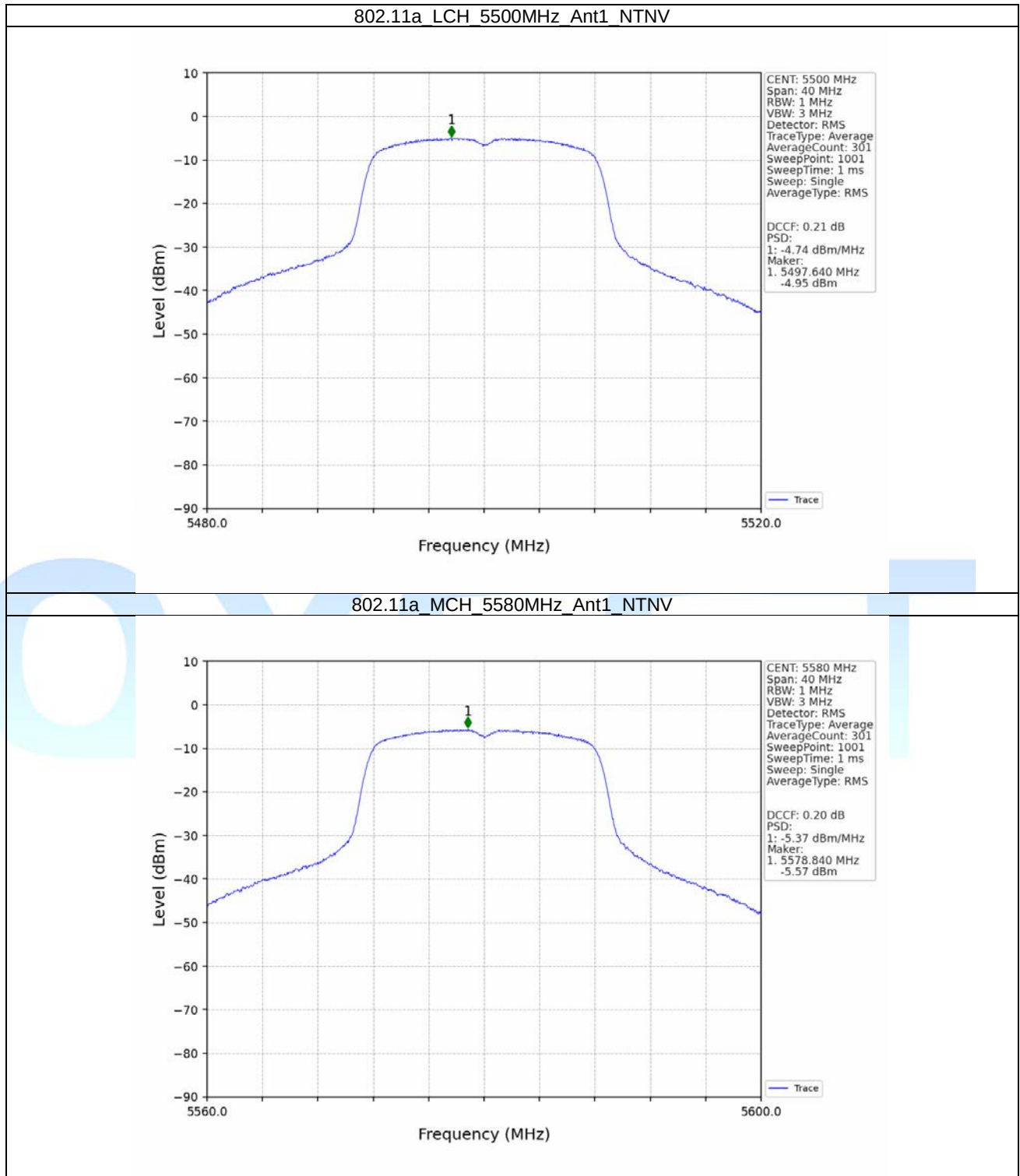
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5500	-4.74	<=11	Pass
		5580	-5.37	<=11	Pass
		5700	-6.36	<=11	Pass
802.11n (HT20)	SISO	5500	-5.07	<=11	Pass
		5580	-5.83	<=11	Pass
		5700	-6.73	<=11	Pass
802.11n (HT40)	SISO	5510	-8.41	<=11	Pass
		5550	-8.94	<=11	Pass
		5670	-10.12	<=11	Pass
802.11ac (VHT20)	SISO	5500	-5.11	<=11	Pass
		5580	-5.88	<=11	Pass
		5700	-7.05	<=11	Pass
802.11ac (VHT40)	SISO	5510	-8.24	<=11	Pass
		5550	-8.94	<=11	Pass
		5670	-10.04	<=11	Pass
802.11ac (VHT80)	SISO	5530	-11.57	<=11	Pass
		5610	-12.63	<=11	Pass

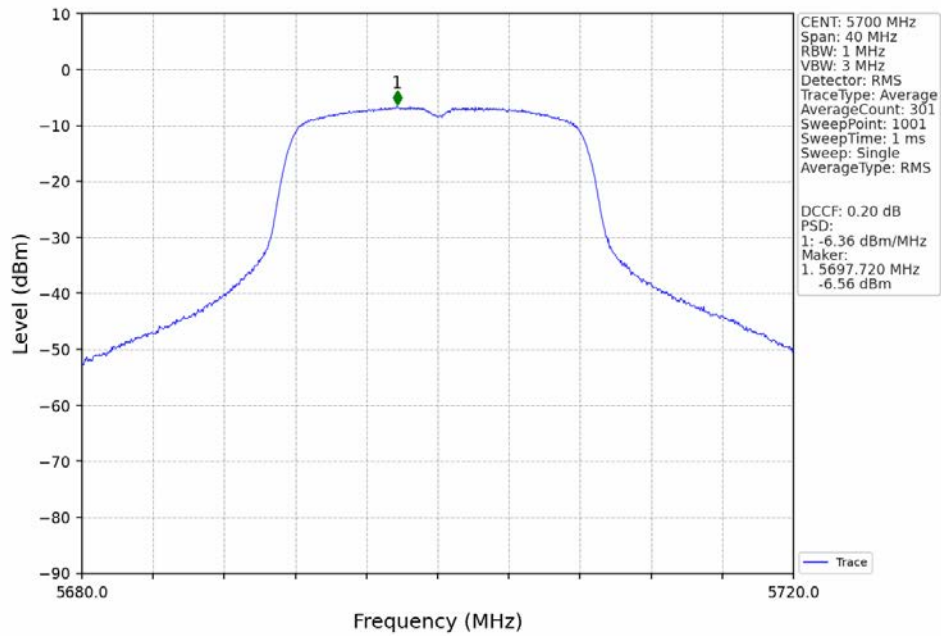
Note1: Antenna Gain: Ant1: 3.84dBi;
Note2: Test result contains DCCF

4.2 Test Graph

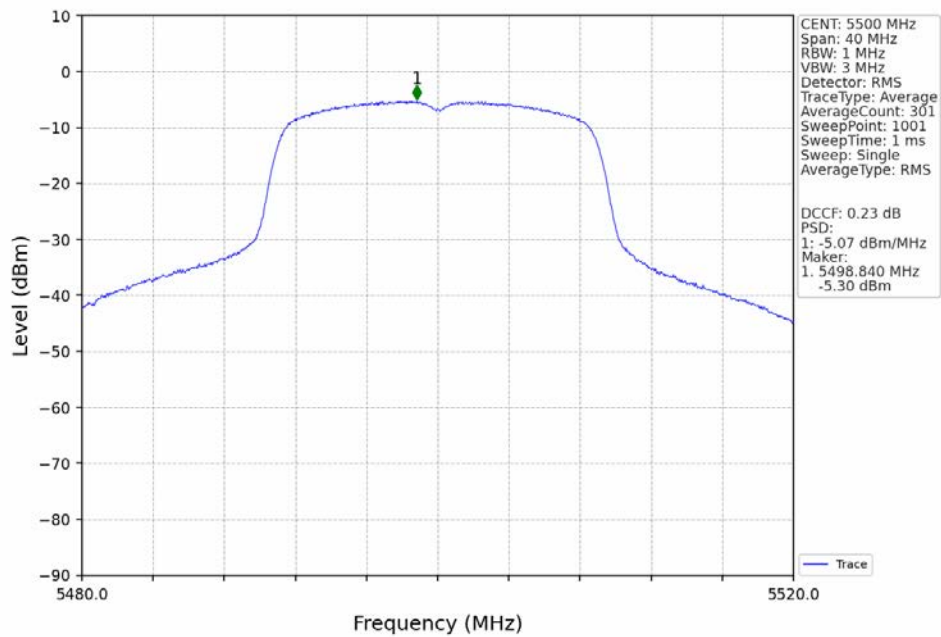
4.2.1 PSD



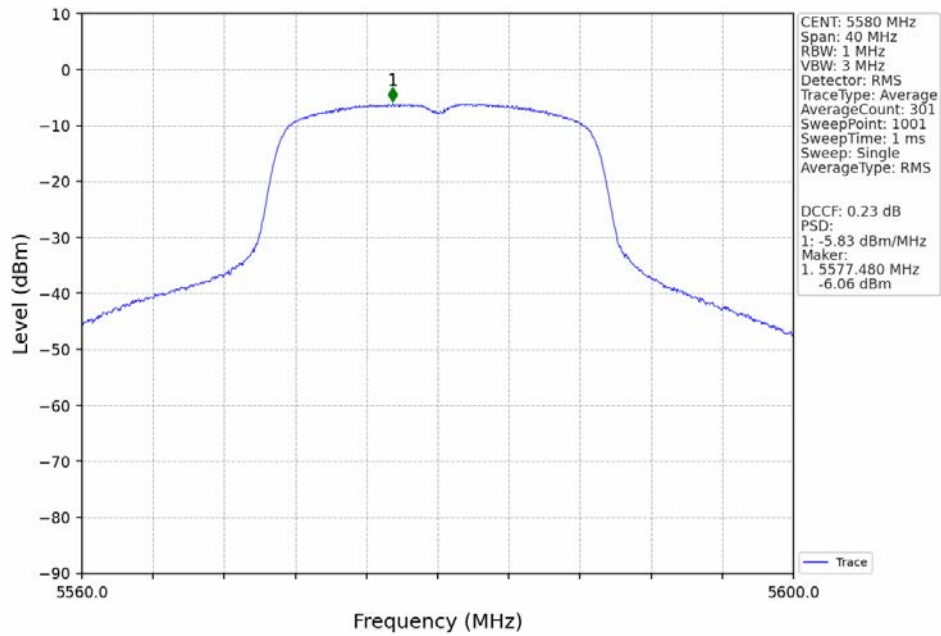
802.11a_HCH_5700MHz_Ant1_NTNV



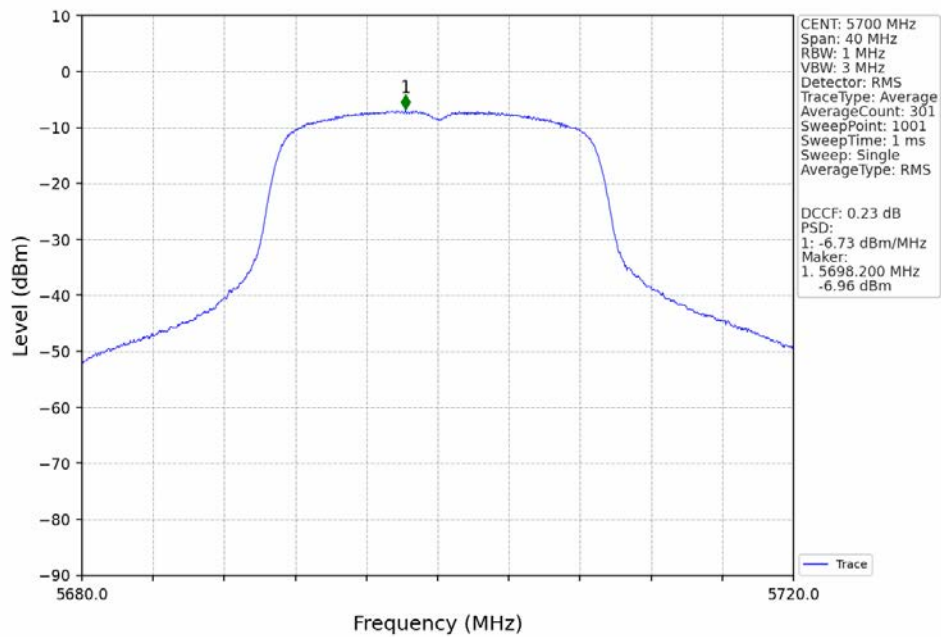
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



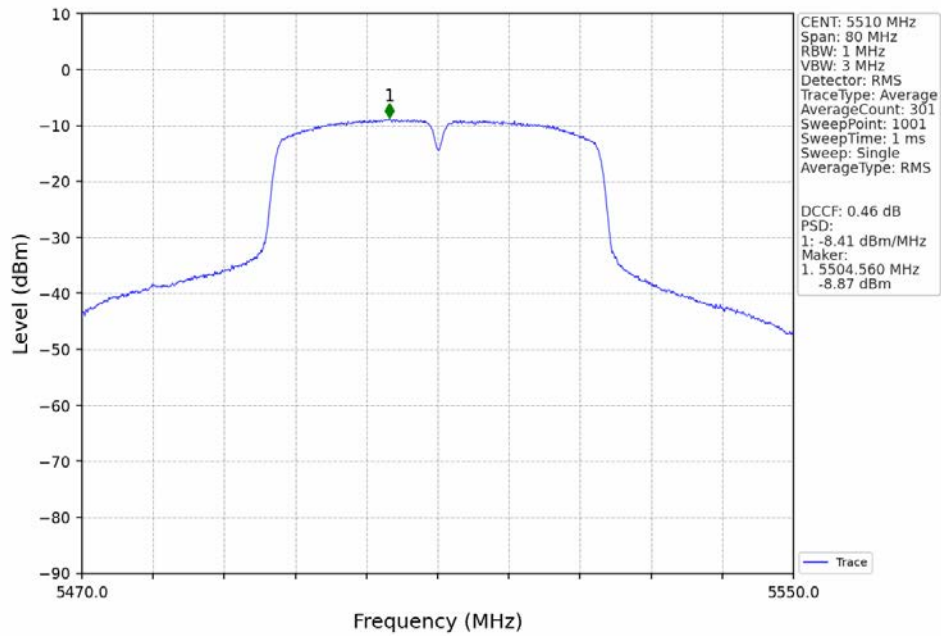
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



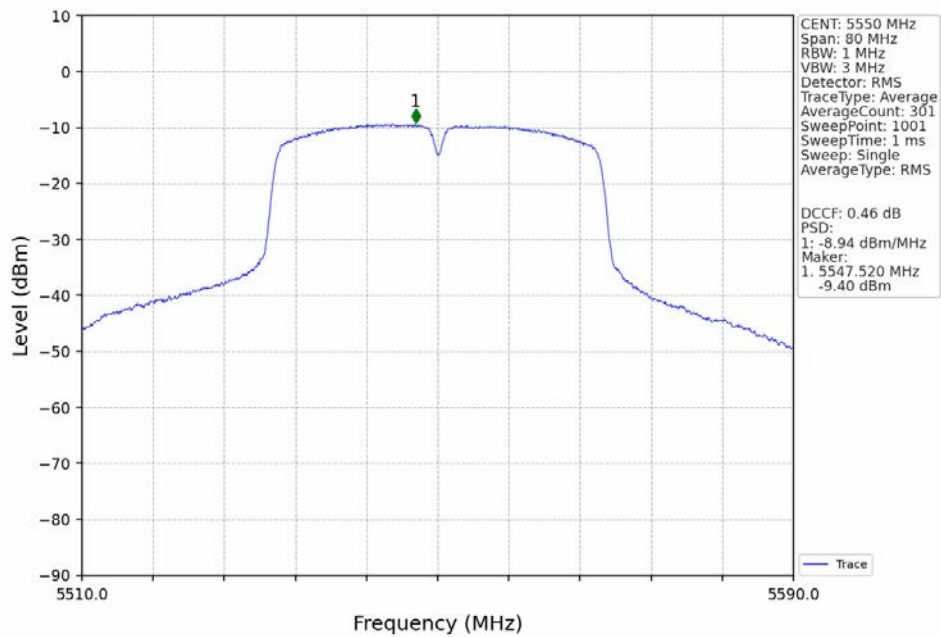
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



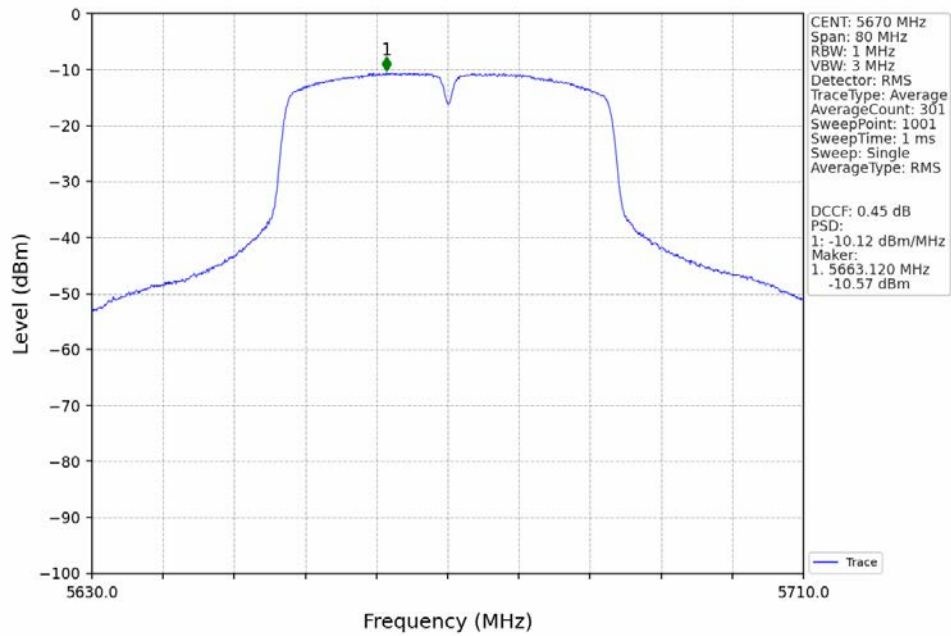
802.11n(HT40) LCH 5510MHz_Ant1_NTNV



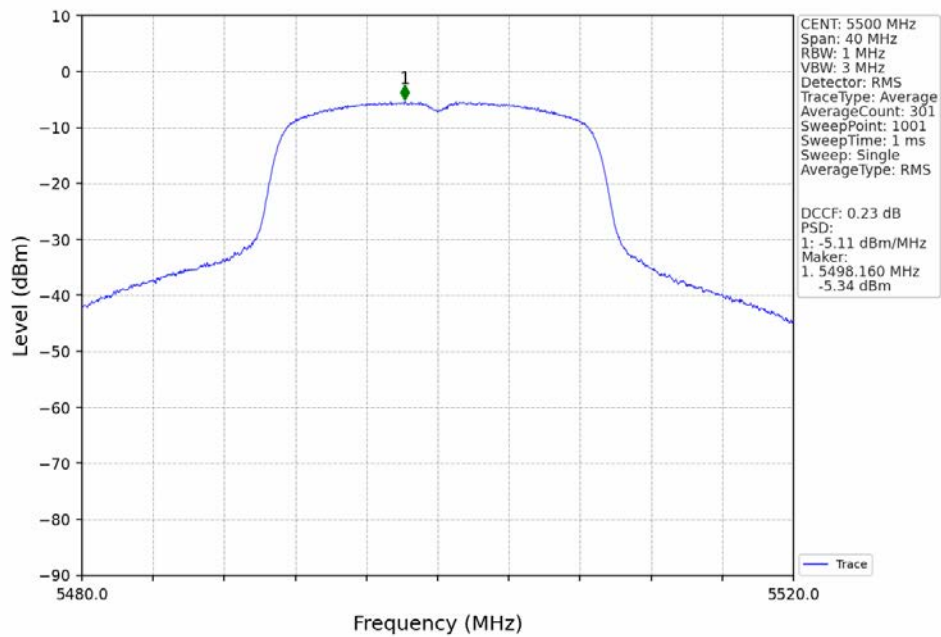
802.11n(HT40) MCH 5550MHz_Ant1_NTNV



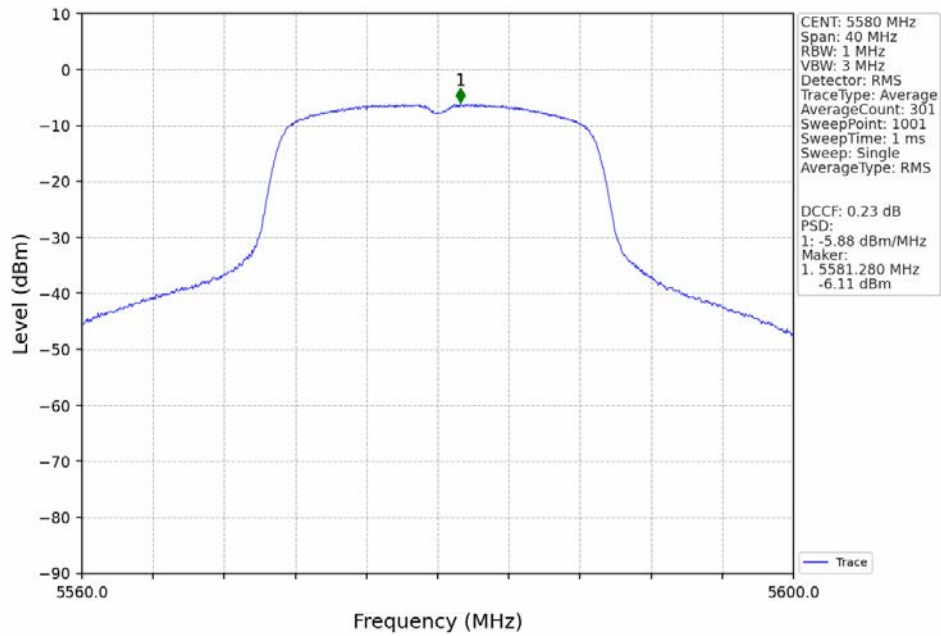
802.11n(HT40) HCH_5670MHz_Ant1_NTNV



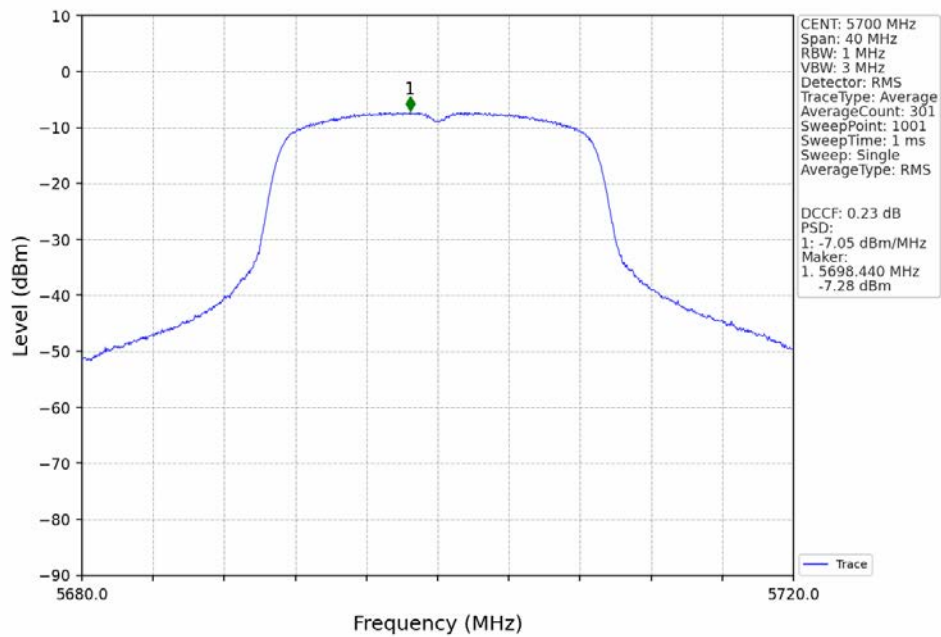
802.11ac(VHT20) LCH_5500MHz_Ant1_NTNV



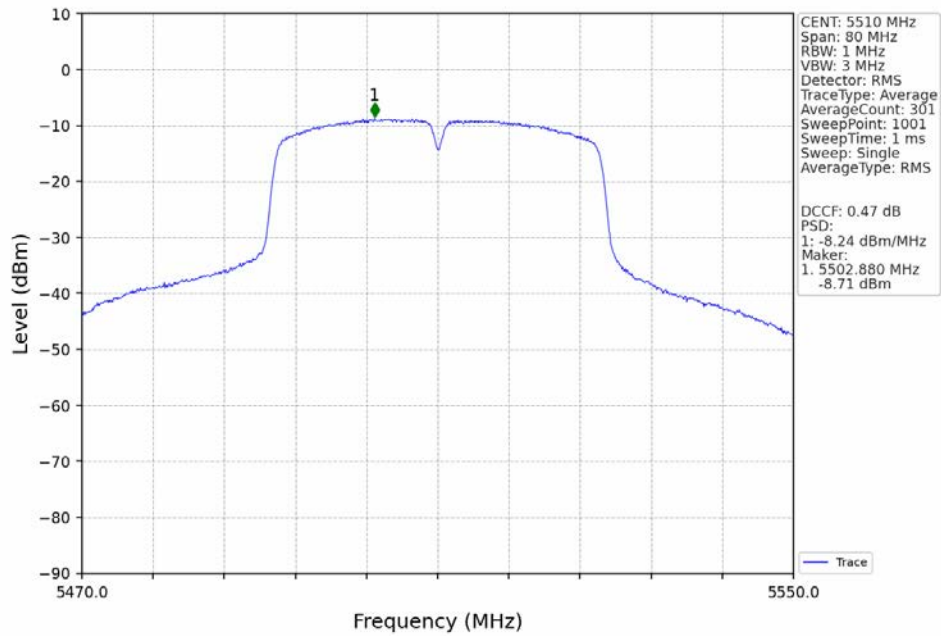
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



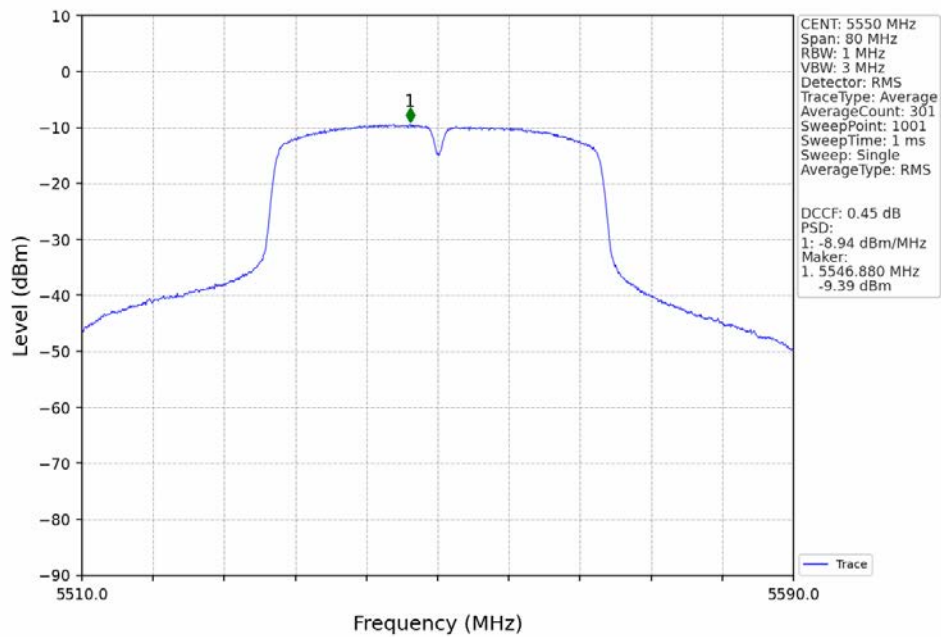
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



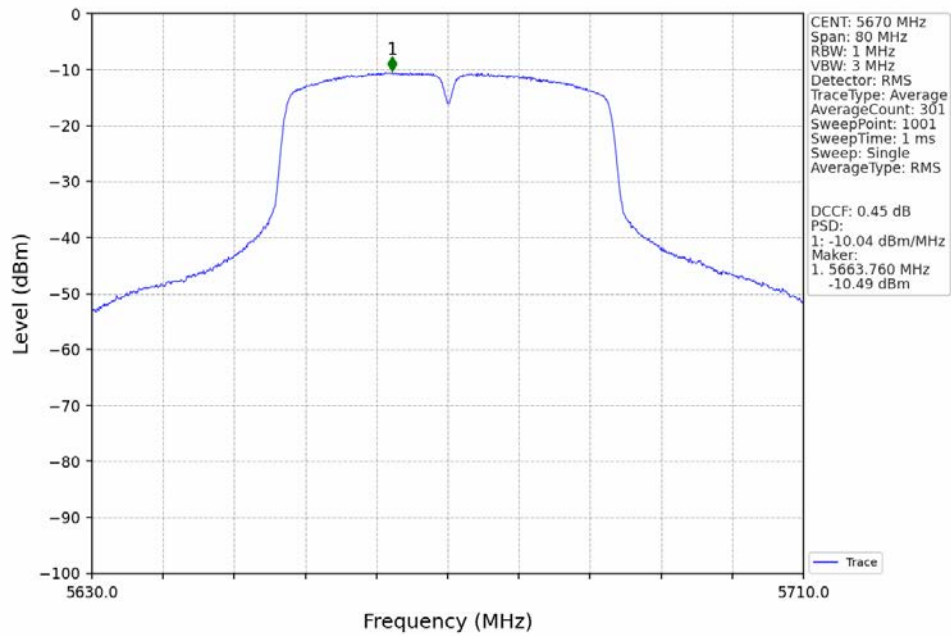
802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



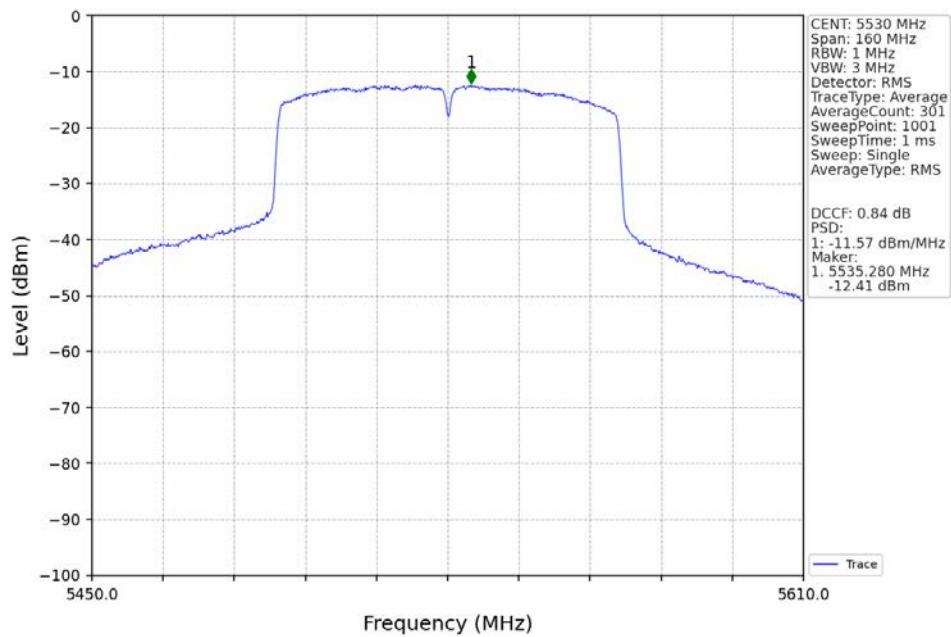
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV

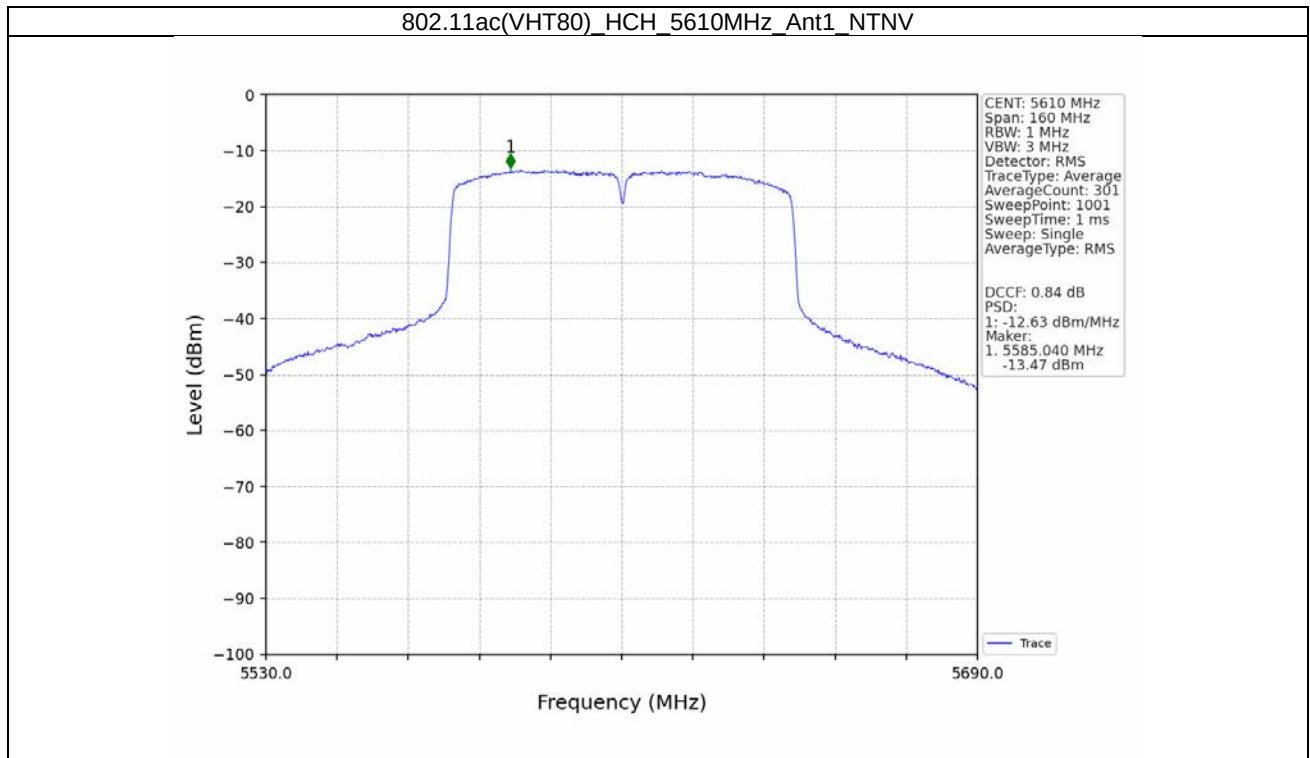


802.11ac(VHT40) HCH_5670MHz_Ant1_NTNV



802.11ac(VHT80) LCH_5530MHz_Ant1_NTNV





5. Unwanted Emissions In Restricted Frequency Bands

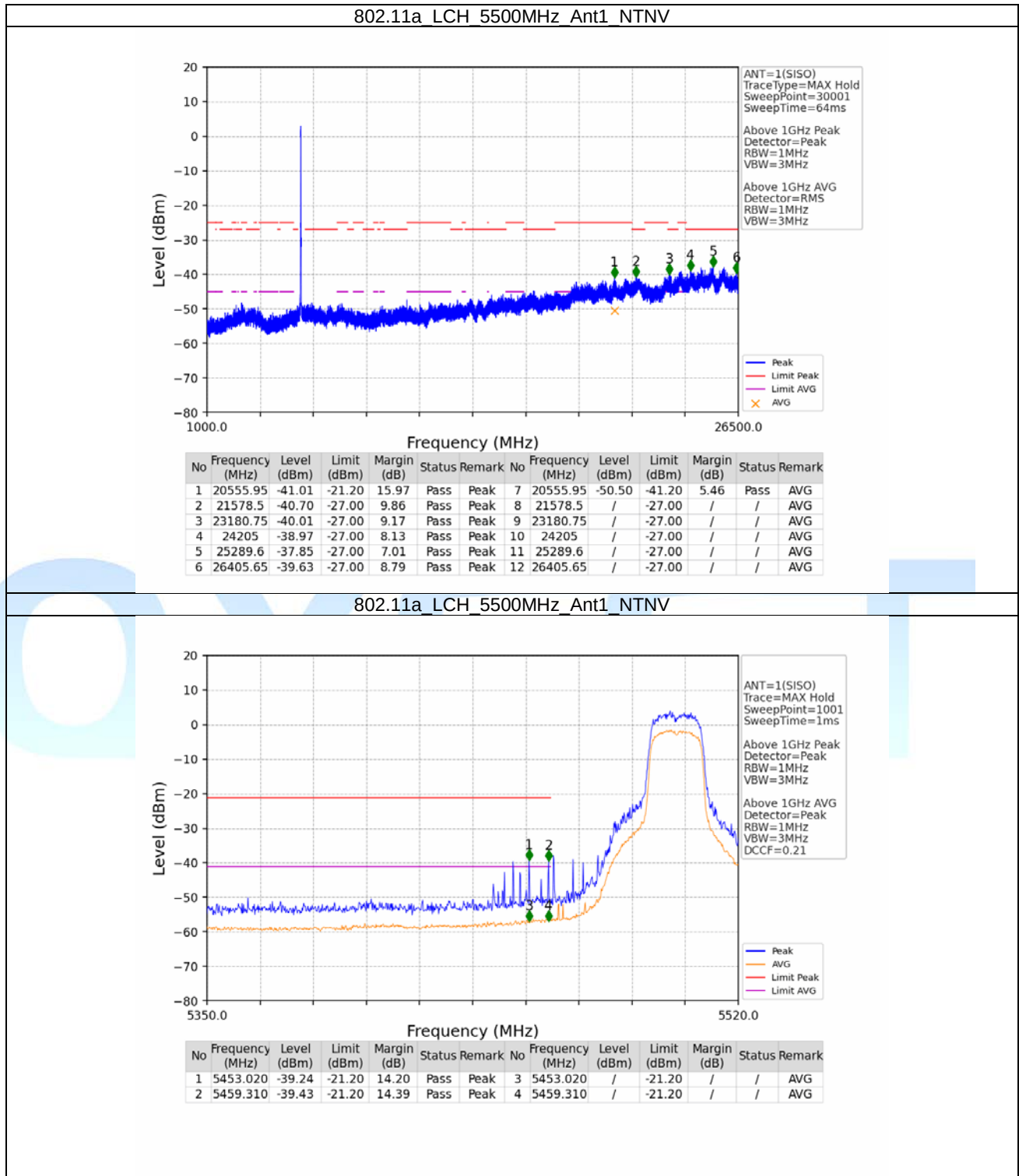
5.1 Test Result

5.1.1 RSE

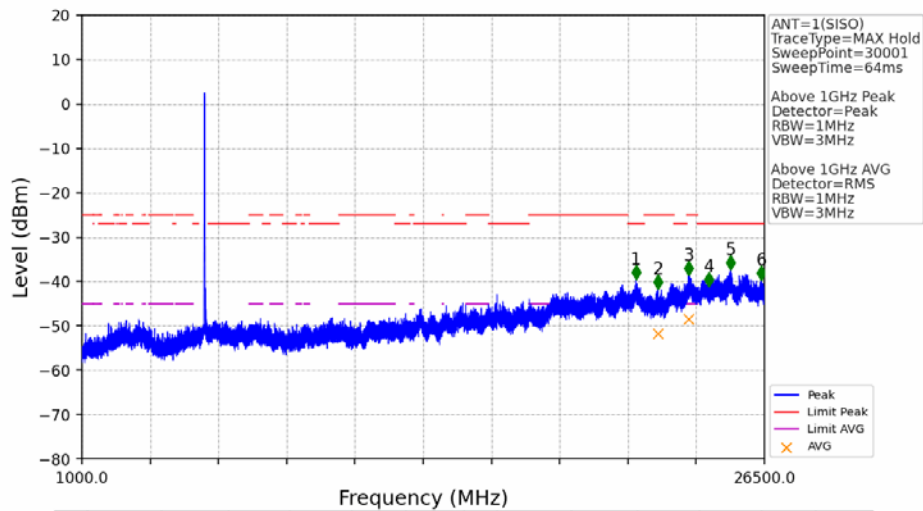
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
802.11a	SISO	5500	1	Refer To Test Graph		Pass
		5580	1	Refer To Test Graph		Pass
		5700	1	Refer To Test Graph		Pass
802.11n (HT20)	SISO	5500	1	Refer To Test Graph		Pass
		5580	1	Refer To Test Graph		Pass
		5700	1	Refer To Test Graph		Pass
802.11n (HT40)	SISO	5510	1	Refer To Test Graph		Pass
		5550	1	Refer To Test Graph		Pass
		5670	1	Refer To Test Graph		Pass
802.11ac (VHT20)	SISO	5500	1	Refer To Test Graph		Pass
		5580	1	Refer To Test Graph		Pass
		5700	1	Refer To Test Graph		Pass
802.11ac (VHT40)	SISO	5510	1	Refer To Test Graph		Pass
		5550	1	Refer To Test Graph		Pass
		5670	1	Refer To Test Graph		Pass
802.11ac (VHT80)	SISO	5530	1	Refer To Test Graph		Pass
		5610	1	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 RSE

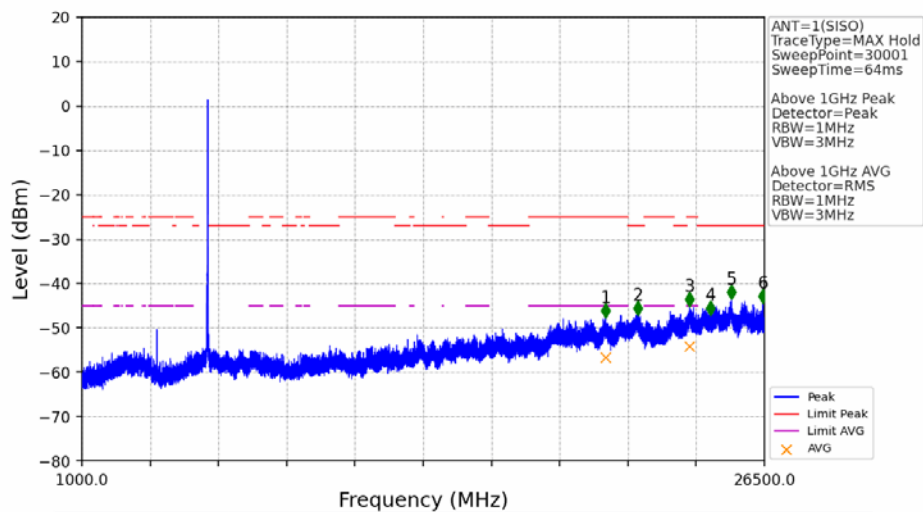


802.11a_MCH_5580MHz_Ant1_NTNV



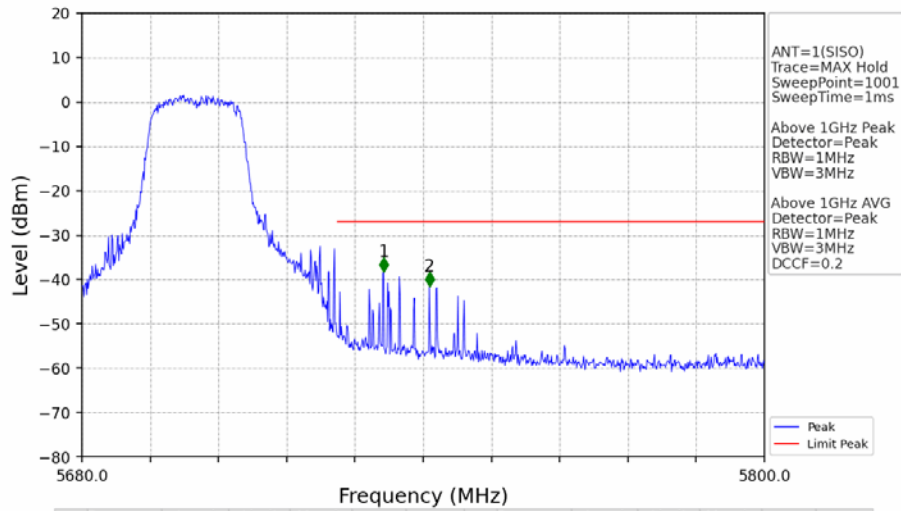
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21697.5	-39.56	-27.00	8.72	Pass	Peak	7	21697.5	/	-27.00	/	/	AVG
2	22518.6	-41.69	-21.20	16.65	Pass	Peak	8	22518.6	-51.83	-41.20	6.79	Pass	AVG
3	23659.3	-38.58	-21.20	13.54	Pass	Peak	9	23659.3	-48.48	-41.20	3.44	Pass	AVG
4	24426.85	-41.08	-27.00	10.24	Pass	Peak	10	24426.85	/	-27.00	/	/	AVG
5	25236.05	-37.40	-27.00	6.56	Pass	Peak	11	25236.05	/	-27.00	/	/	AVG
6	26381	-39.66	-27.00	8.82	Pass	Peak	12	26381	/	-27.00	/	/	AVG

802.11a_HCH_5700MHz_Ant1_NTNV



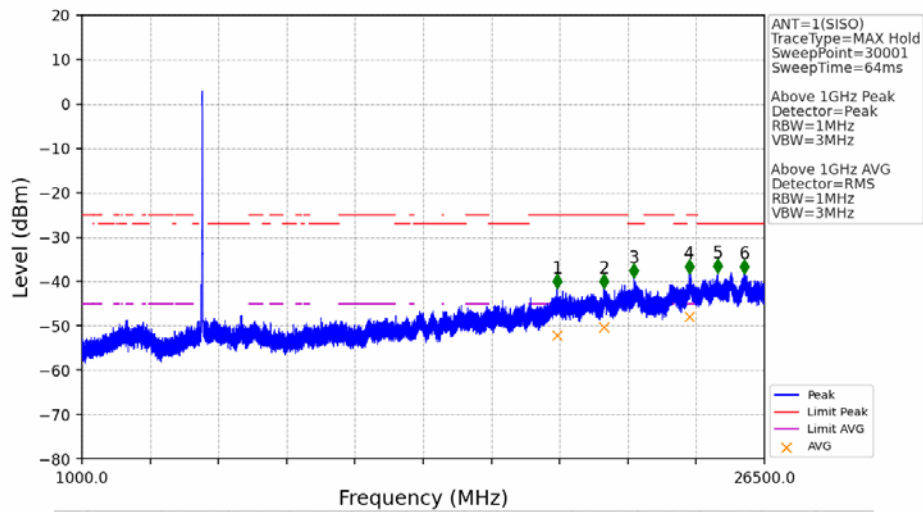
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20564.45	-47.73	-21.20	22.69	Pass	Peak	7	20564.45	-56.72	-41.20	11.68	Pass	AVG
2	21758.7	-47.09	-27.00	16.25	Pass	Peak	8	21758.7	/	-27.00	/	/	AVG
3	23706.9	-45.08	-21.20	20.04	Pass	Peak	9	23706.9	-54.20	-41.20	9.16	Pass	AVG
4	24494	-47.12	-27.00	16.27	Pass	Peak	10	24494	/	-27.00	/	/	AVG
5	25276	-43.47	-27.00	12.62	Pass	Peak	11	25276	/	-27.00	/	/	AVG
6	26436.25	-44.47	-27.00	13.63	Pass	Peak	12	26436.25	/	-27.00	/	/	AVG

802.11a_HCH_5700MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	5733.040	-38.31	-27.00	7.47	Pass Peak	3	5733.040	/	-27.00	/	/ AVG
2	5741.080	-41.46	-27.00	10.62	Pass Peak	4	5741.080	/	-27.00	/	/ AVG

802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	18750.55	-41.50	-21.20	16.46	Pass Peak	7	18750.55	-52.20	-41.20	7.16	Pass AVG
2	20502.4	-41.51	-21.20	16.46	Pass Peak	8	20502.4	-50.40	-41.20	5.36	Pass AVG
3	21627.8	-39.20	-27.00	8.36	Pass Peak	9	21627.8	/	-27.00	/	/ AVG
4	23689.05	-38.23	-21.20	13.19	Pass Peak	10	23689.05	-47.92	-41.20	2.88	Pass AVG
5	24765.15	-38.03	-27.00	7.19	Pass Peak	11	24765.15	/	-27.00	/	/ AVG
6	25743.5	-38.19	-27.00	7.35	Pass Peak	12	25743.5	/	-27.00	/	/ AVG