

1. Duty Cycle

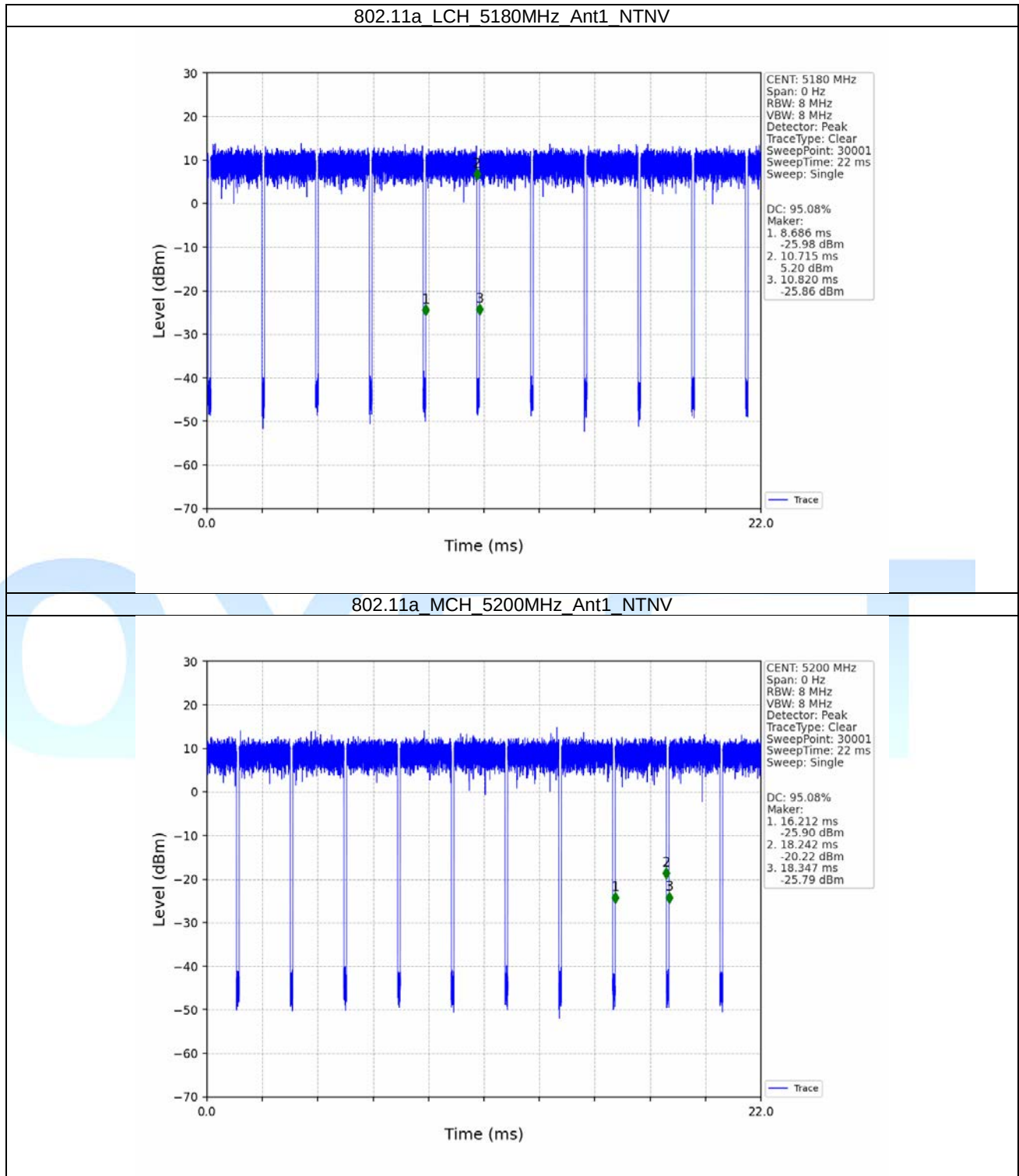
1.1 Test Result

1.1.1 Ant1

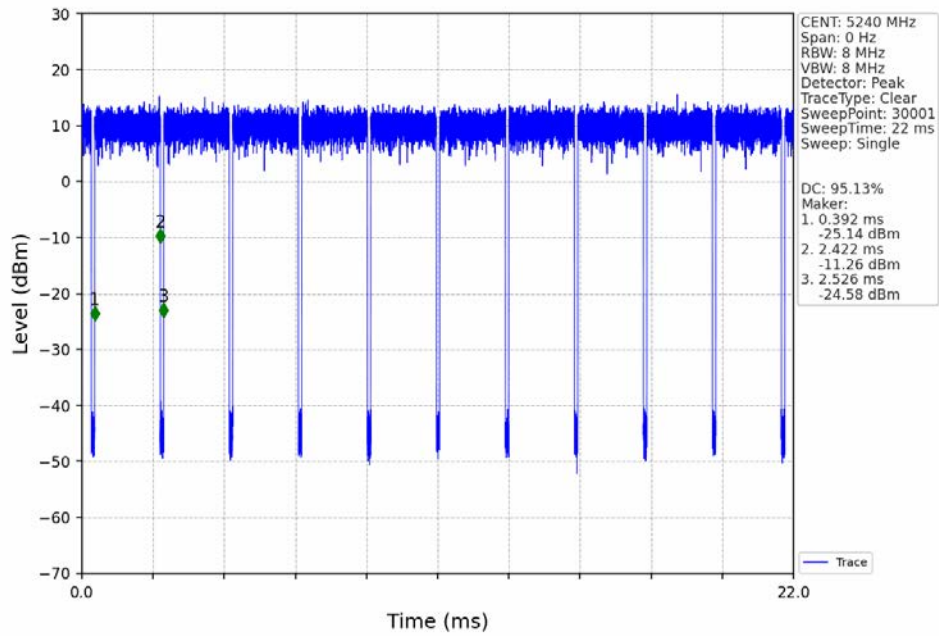
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.029	2.134	95.08	0.22	0.03
		5200	2.030	2.135	95.08	0.22	0.03
		5240	2.030	2.134	95.13	0.22	0.00
802.11n (HT20)	SISO	5180	1.890	1.992	94.88	0.23	0.22
		5200	1.889	1.998	94.54	0.24	0.25
		5240	1.890	1.999	94.55	0.24	0.25
802.11n (HT40)	SISO	5190	0.930	1.038	89.60	0.48	0.84
		5230	0.930	1.038	89.60	0.48	0.84
802.11ac (VHT20)	SISO	5180	1.902	2.010	94.63	0.24	0.24
		5200	1.902	2.011	94.58	0.24	0.24
		5240	1.902	2.010	94.63	0.24	0.22
802.11ac (VHT40)	SISO	5190	0.938	1.044	89.85	0.46	0.67
		5230	0.937	1.043	89.84	0.47	0.67
802.11ac (VHT80)	SISO	5210	0.458	0.561	81.64	0.88	0.68

1.2 Test Graph

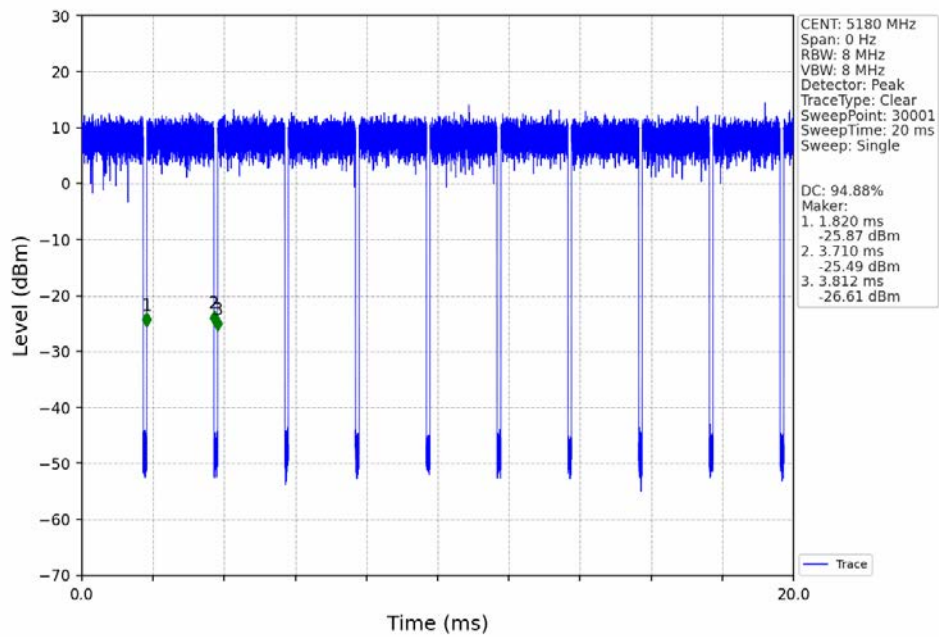
1.2.1 Ant1



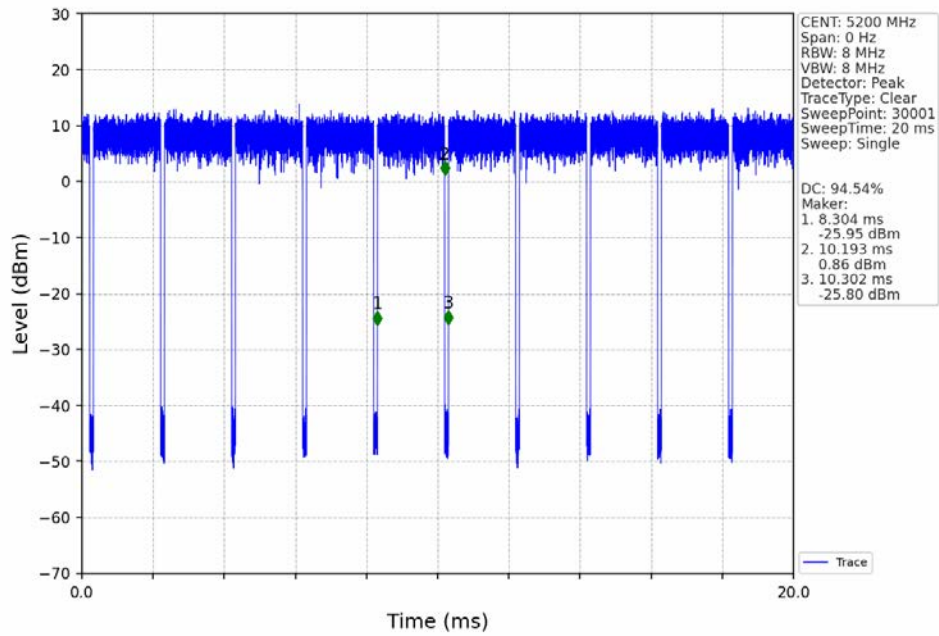
802.11a_HCH_5240MHz_Ant1_NTNV



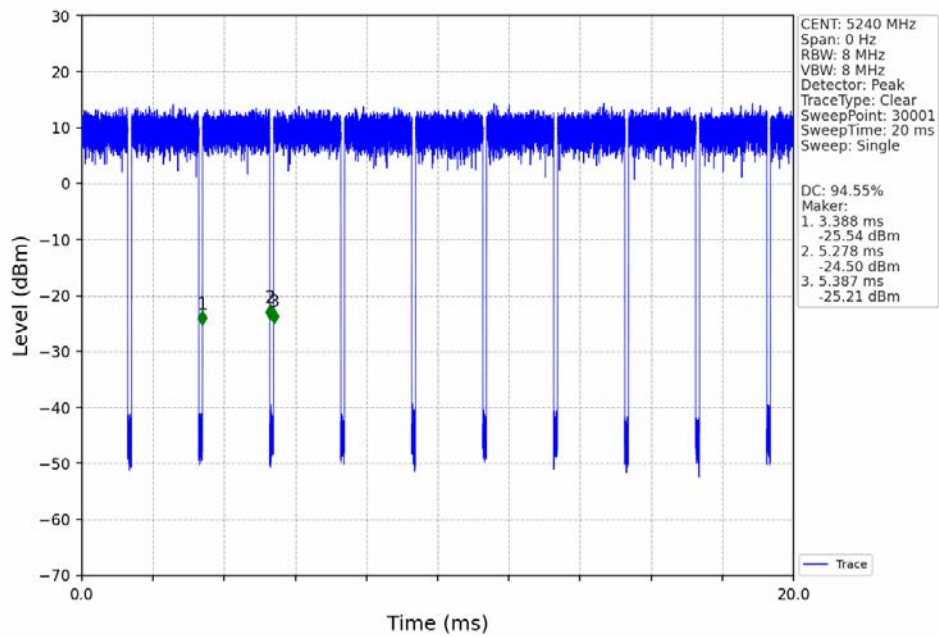
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



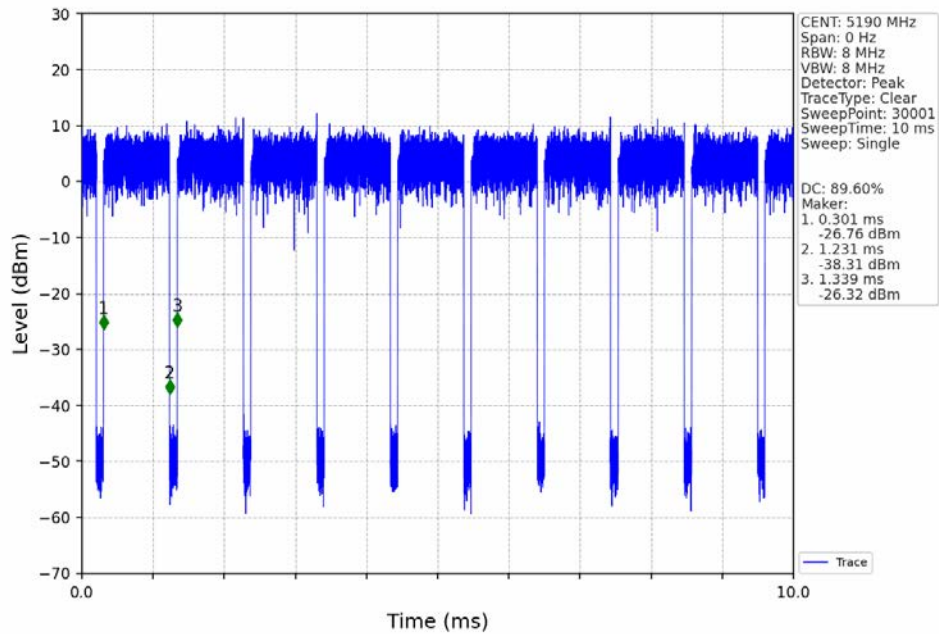
802.11n(HT20) MCH 5200MHz_Ant1_NTNV



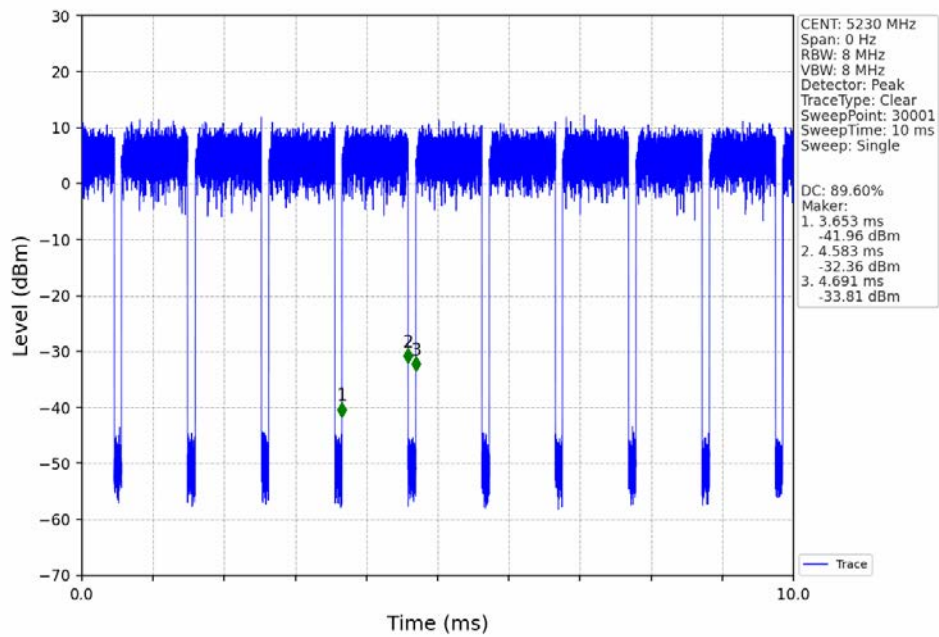
802.11n(HT20) HCH 5240MHz_Ant1_NTNV



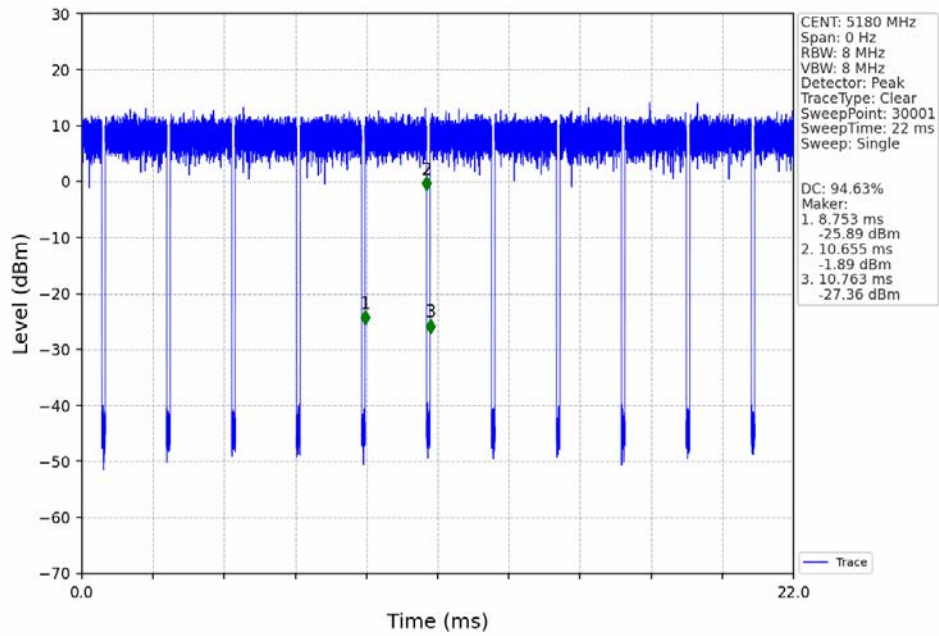
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



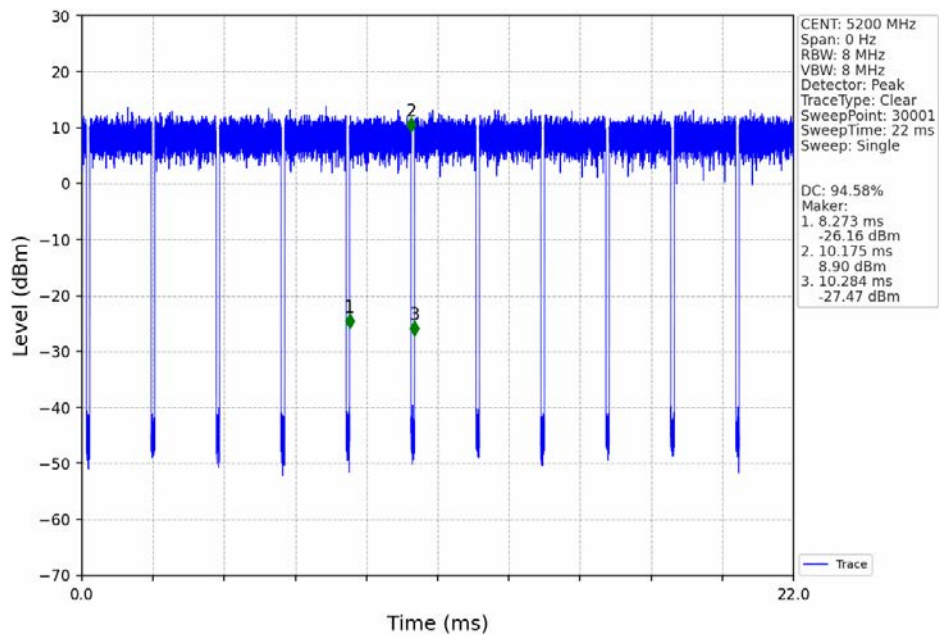
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



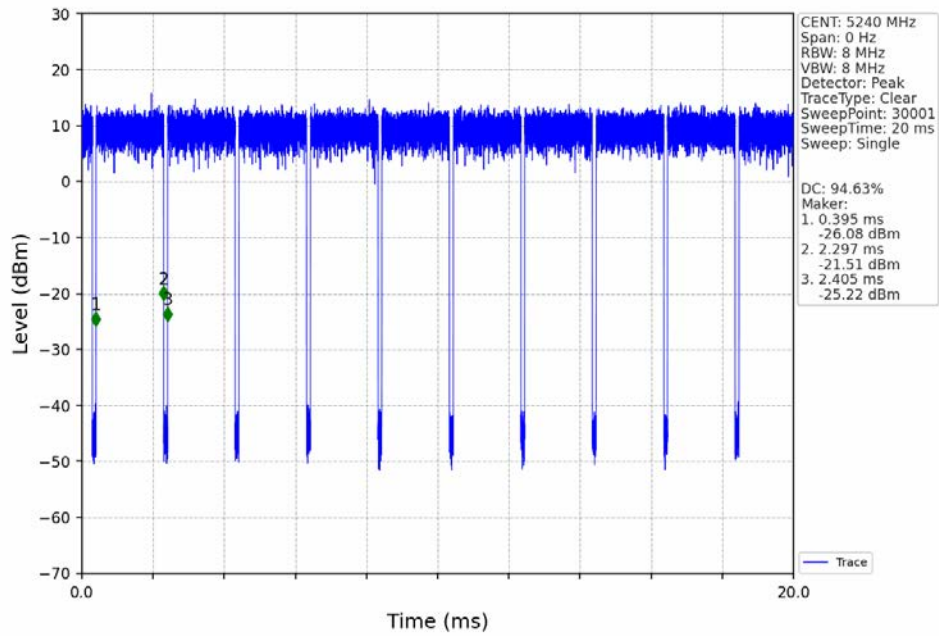
802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV



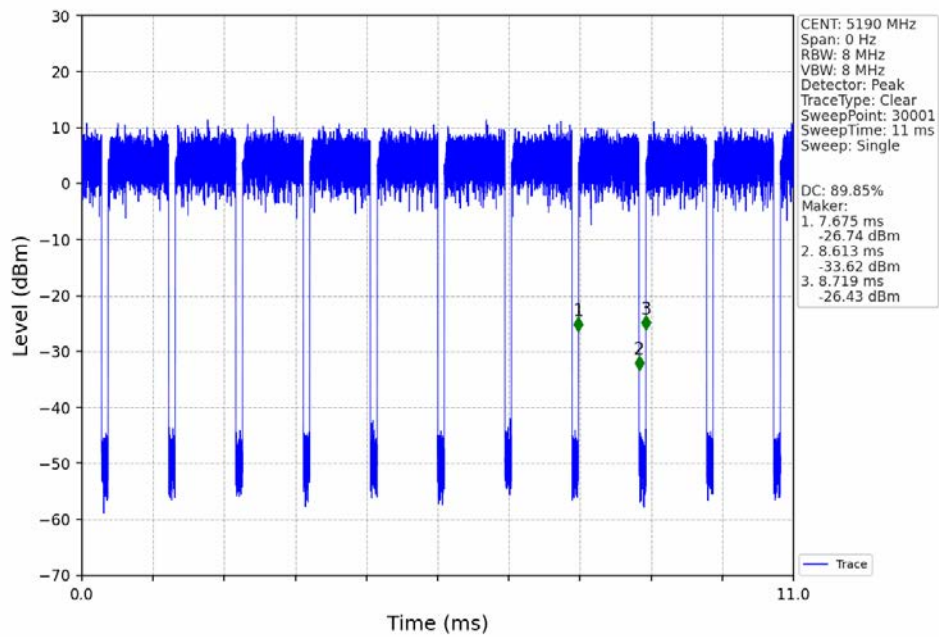
802.11ac(VHT20) MCH_5200MHz_Ant1_NTNV



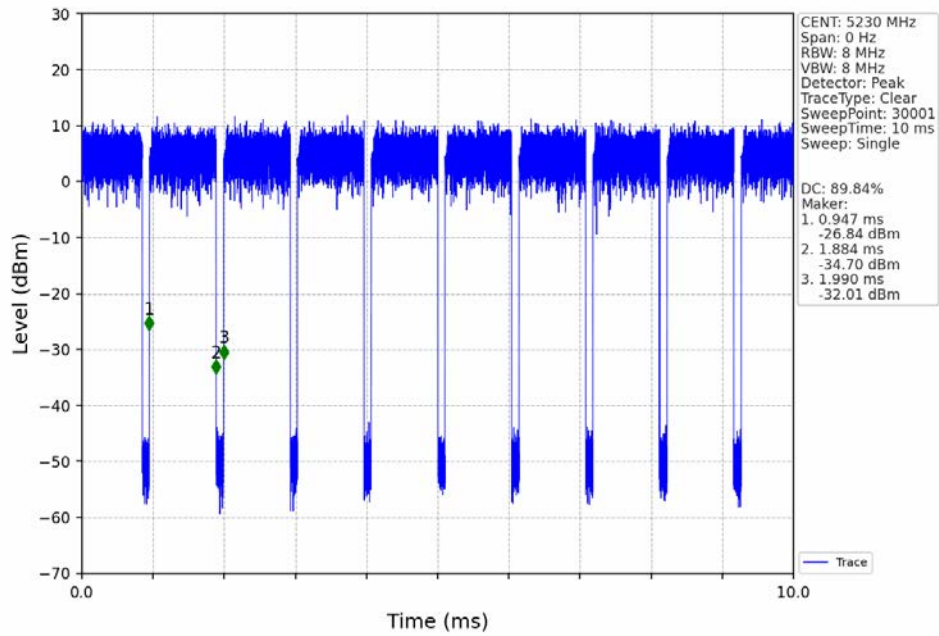
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



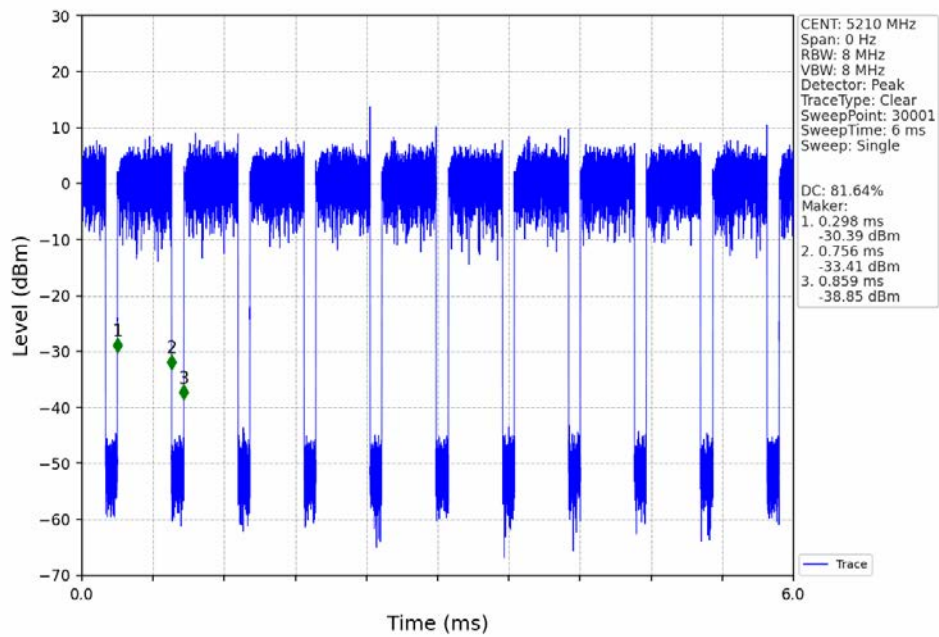
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

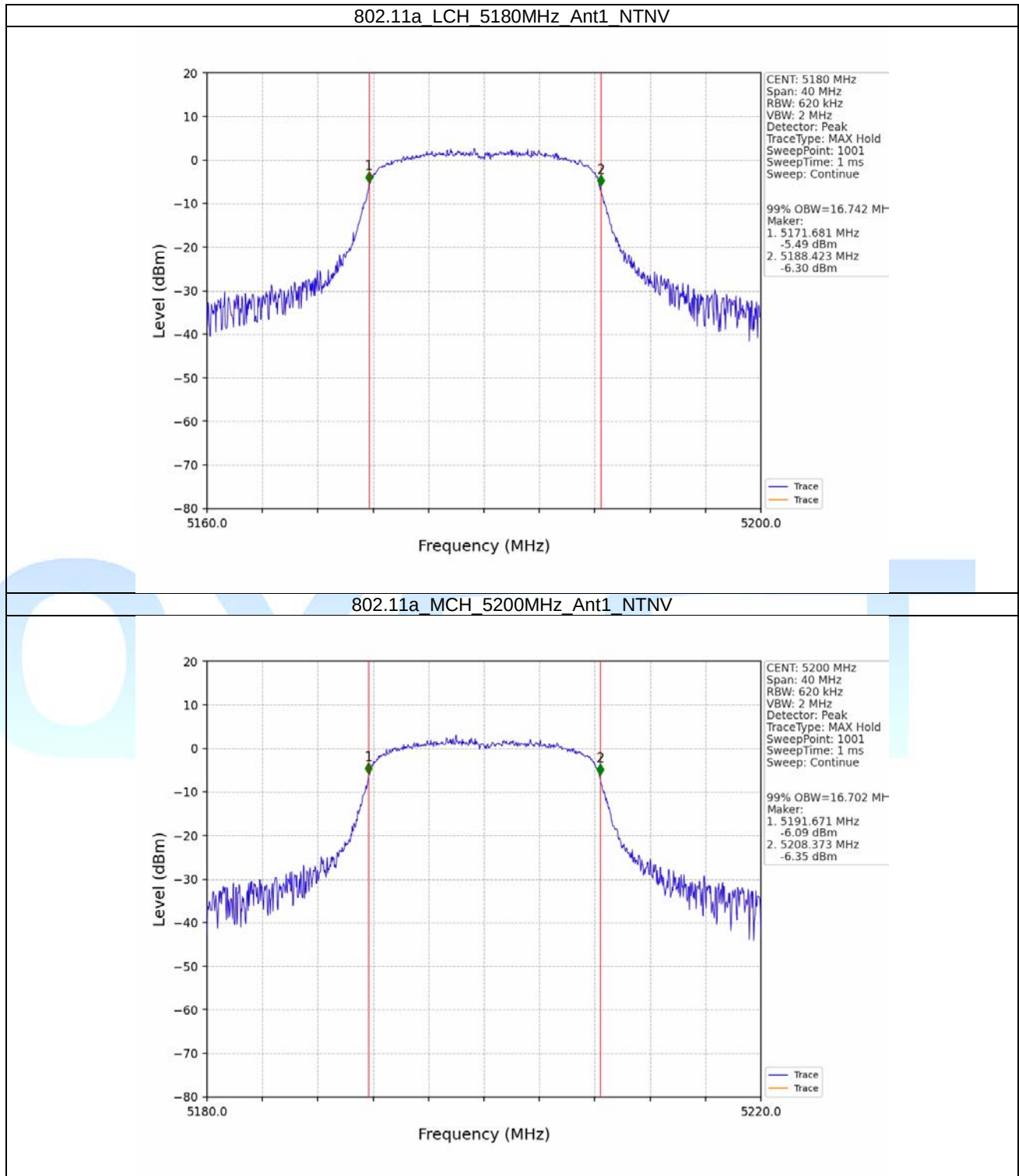
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	16.742	/	Pass
		5200	1	16.702	/	Pass
		5240	1	16.741	/	Pass
802.11n (HT20)	SISO	5180	1	17.710	/	Pass
		5200	1	17.732	/	Pass
		5240	1	17.760	/	Pass
802.11n (HT40)	SISO	5190	1	36.261	/	Pass
		5230	1	36.245	/	Pass
802.11ac (VHT20)	SISO	5180	1	17.748	/	Pass
		5200	1	17.730	/	Pass
		5240	1	17.724	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.247	/	Pass
		5230	1	36.229	/	Pass
802.11ac (VHT80)	SISO	5210	1	75.454	/	Pass

2.1.2 26dB BW

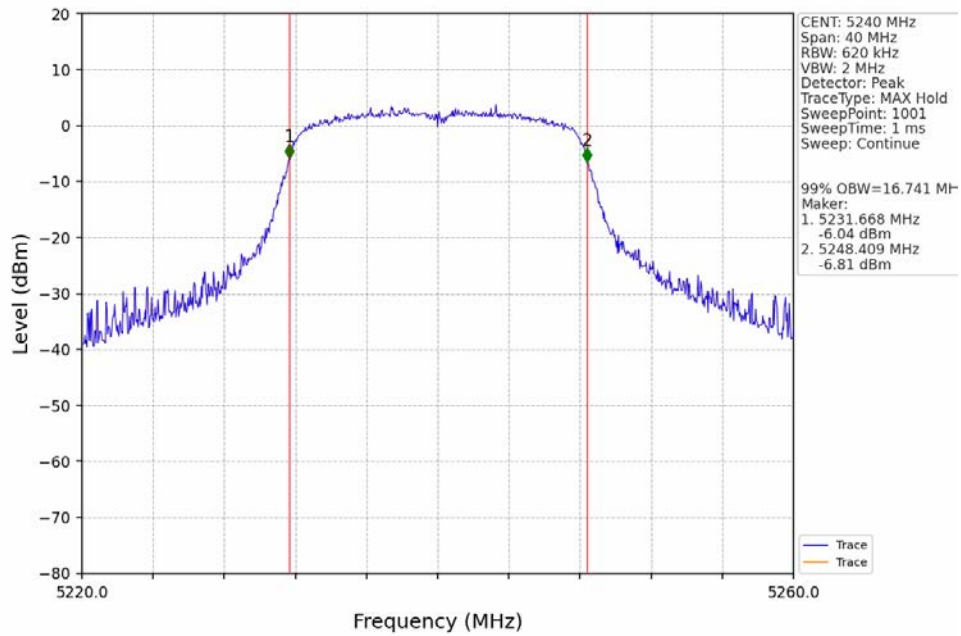
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	19.375	/	Pass
		5200	1	19.534	/	Pass
		5240	1	19.909	/	Pass
802.11n (HT20)	SISO	5180	1	20.366	/	Pass
		5200	1	20.218	/	Pass
		5240	1	20.541	/	Pass
802.11n (HT40)	SISO	5190	1	41.204	/	Pass
		5230	1	43.025	/	Pass
802.11ac (VHT20)	SISO	5180	1	20.431	/	Pass
		5200	1	19.837	/	Pass
		5240	1	20.488	/	Pass
802.11ac (VHT40)	SISO	5190	1	41.948	/	Pass
		5230	1	41.369	/	Pass
802.11ac (VHT80)	SISO	5210	1	86.177	/	Pass

2.2 Test Graph

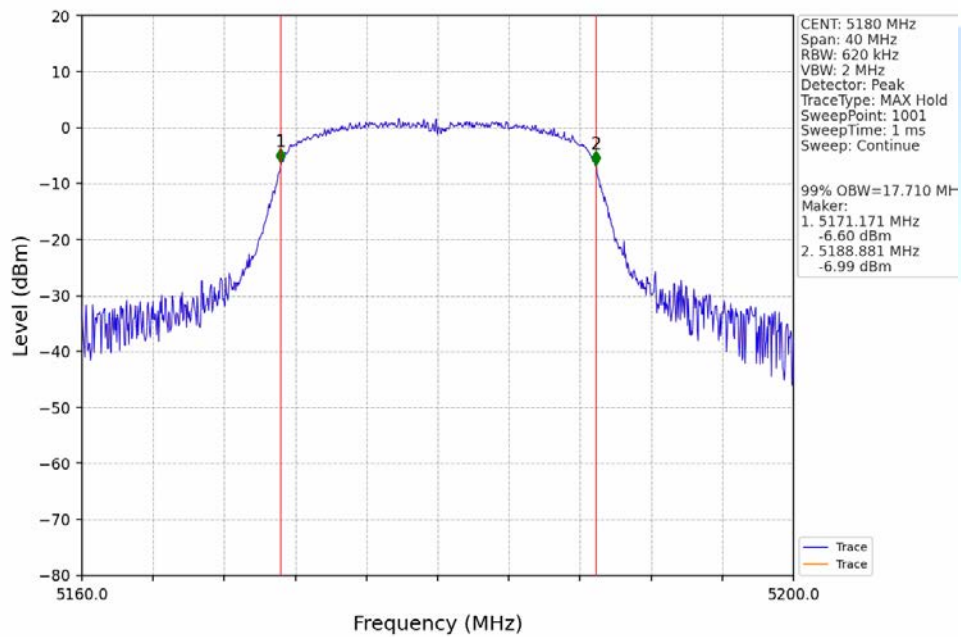
2.2.1 OBW



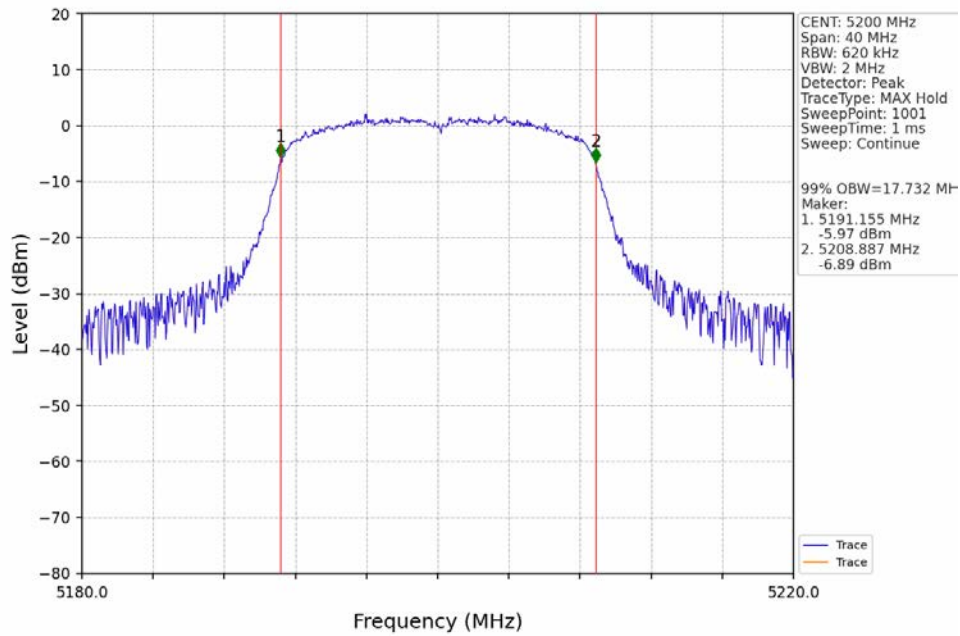
802.11a_HCH_5240MHz_Ant1_NTNV



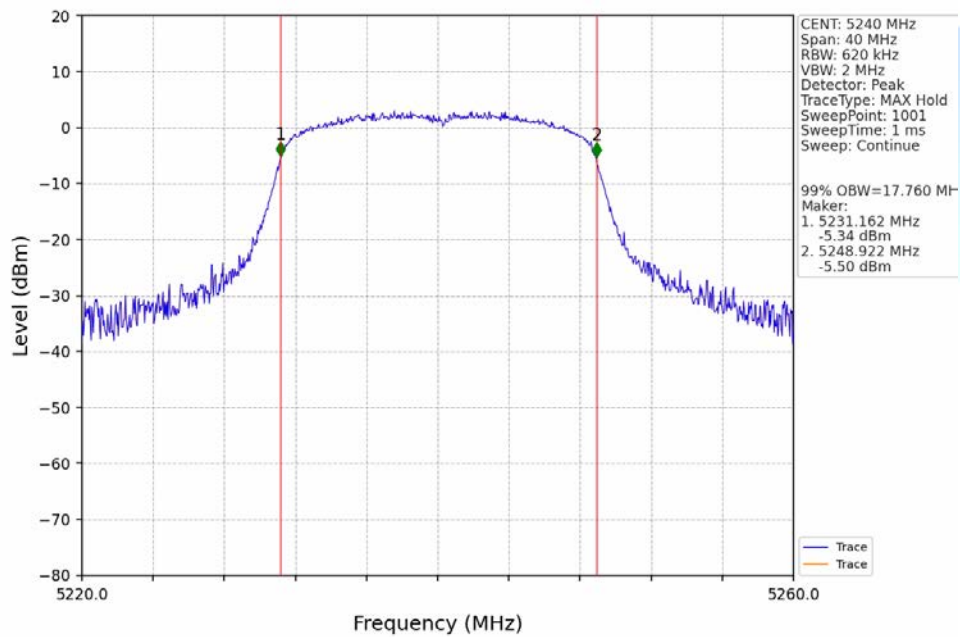
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



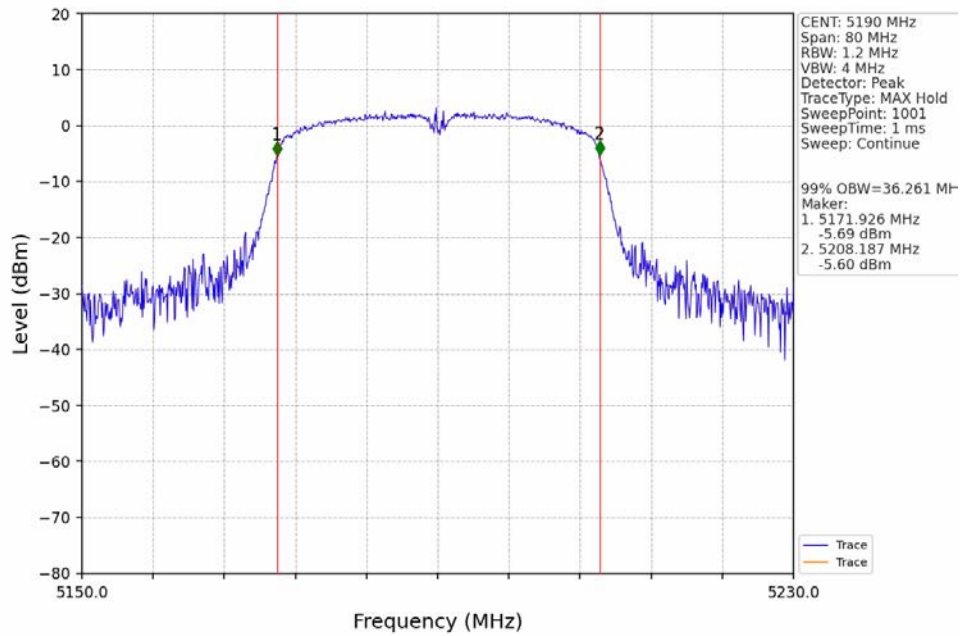
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



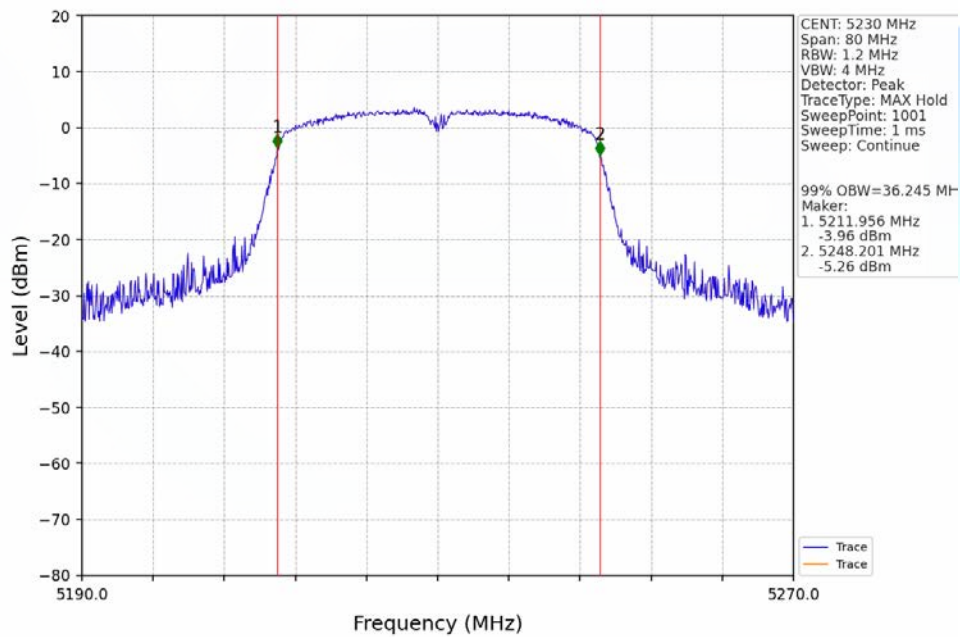
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



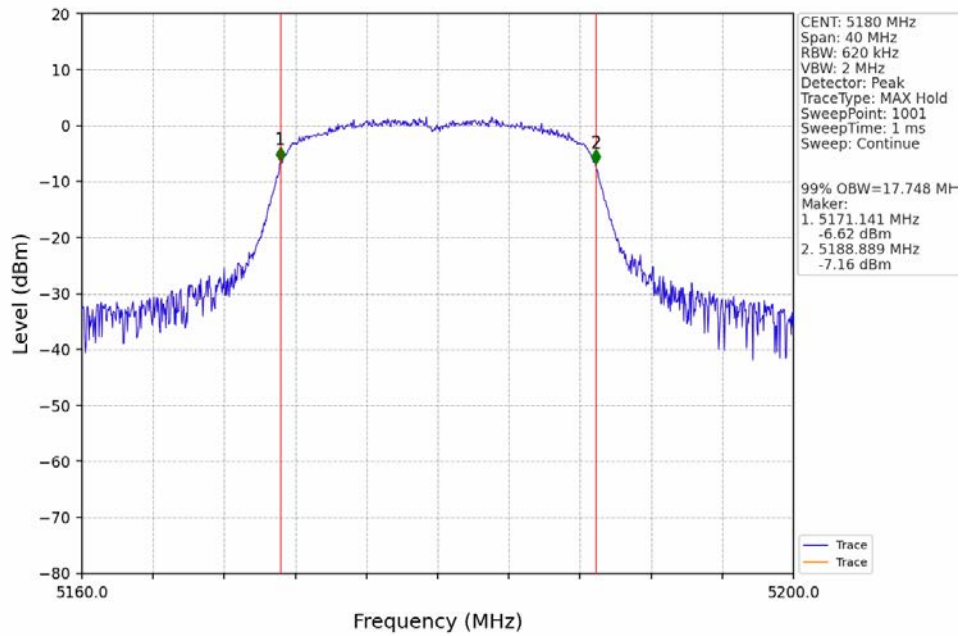
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



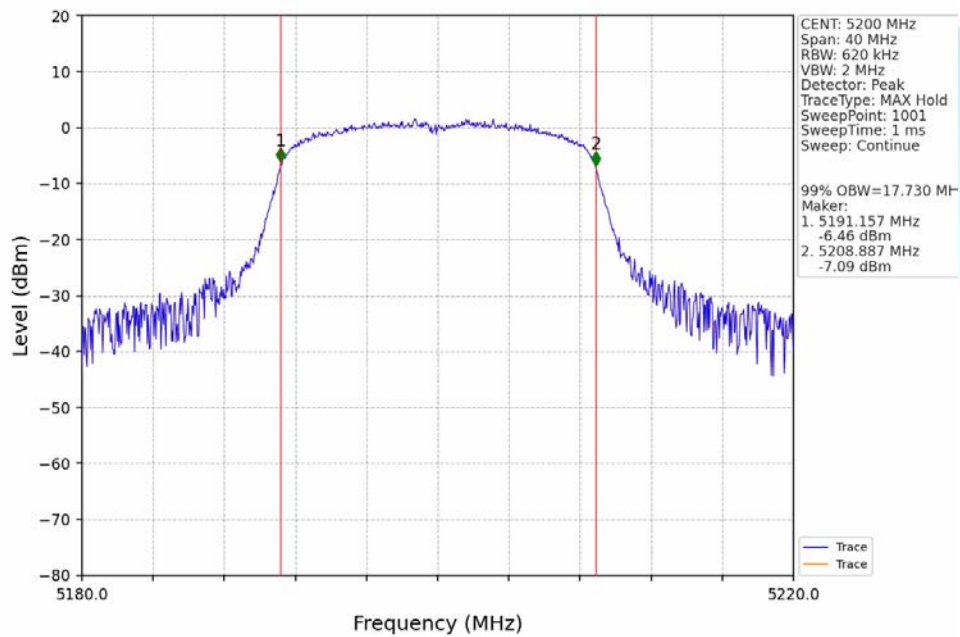
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



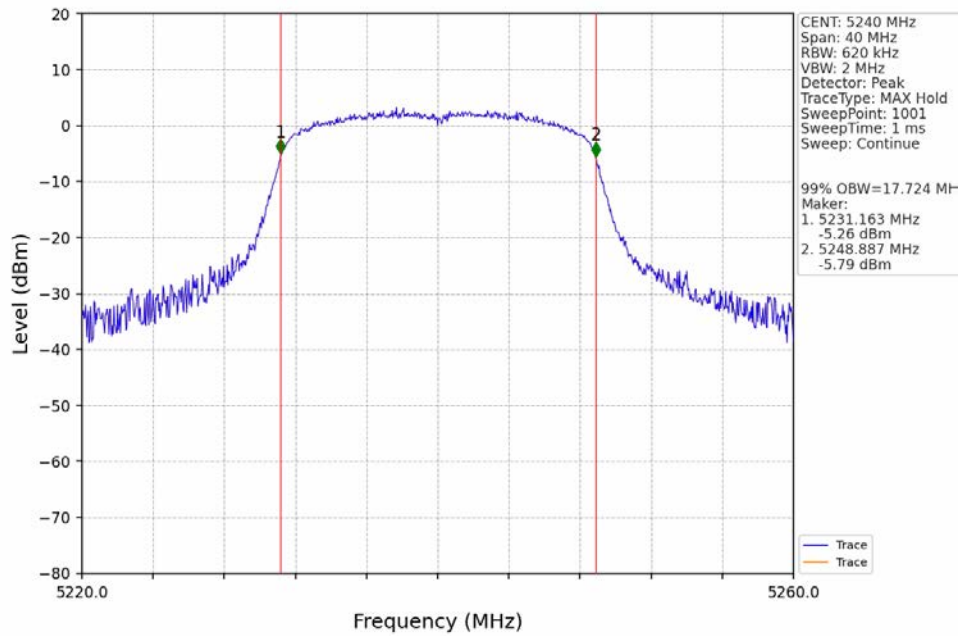
802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV



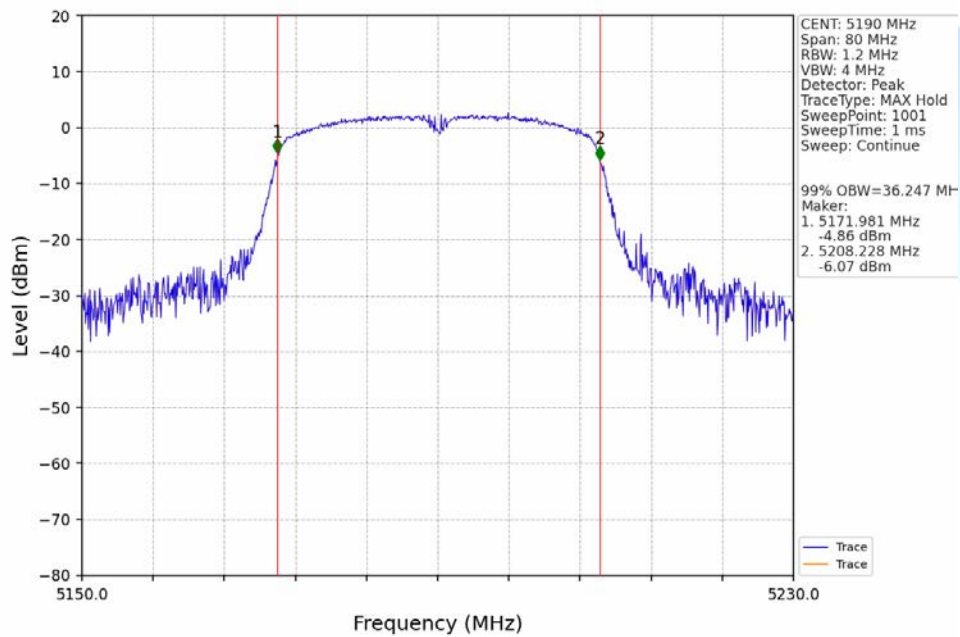
802.11ac(VHT20) MCH_5200MHz_Ant1_NTNV



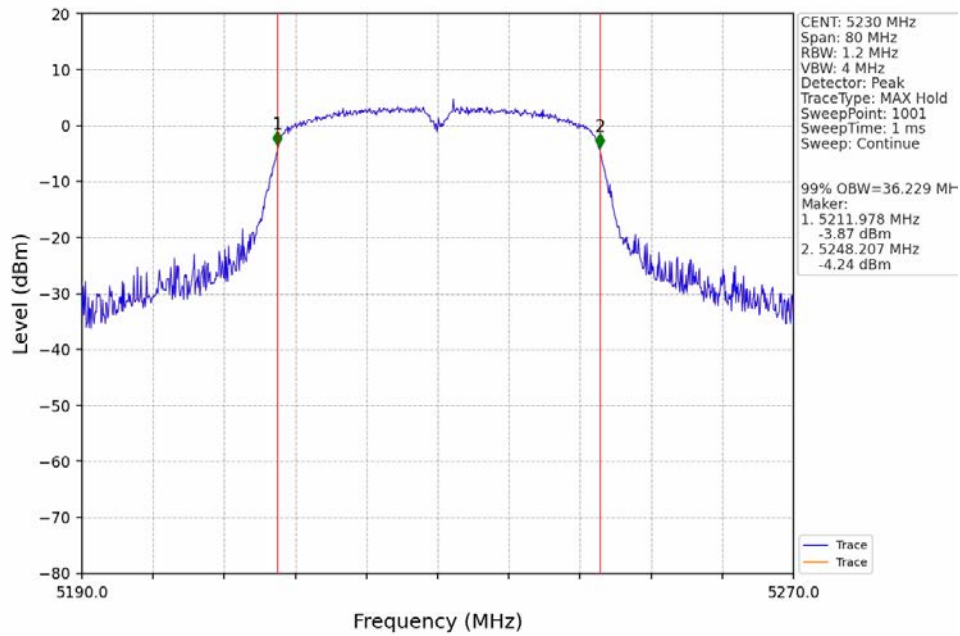
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



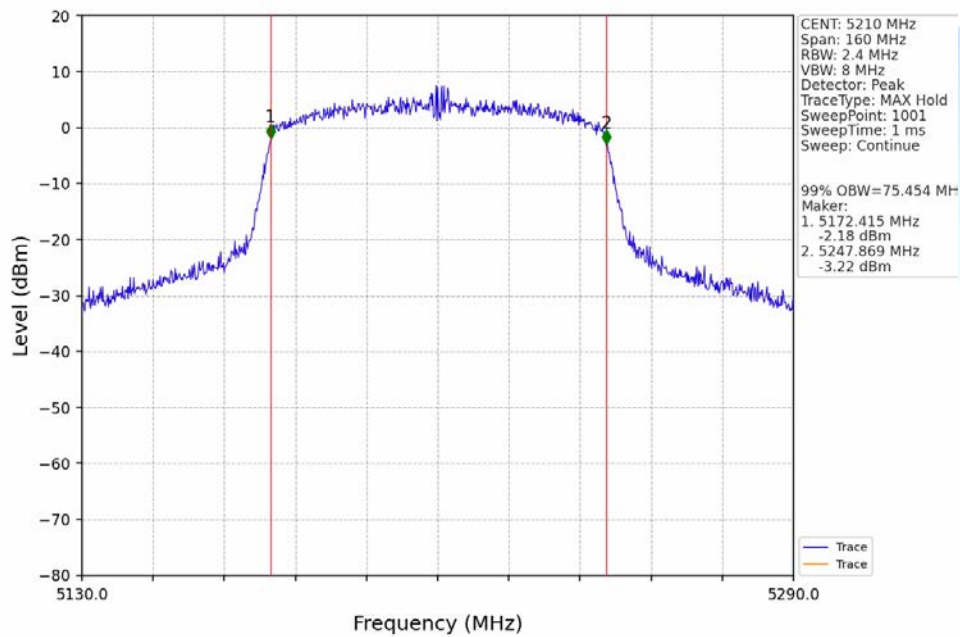
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



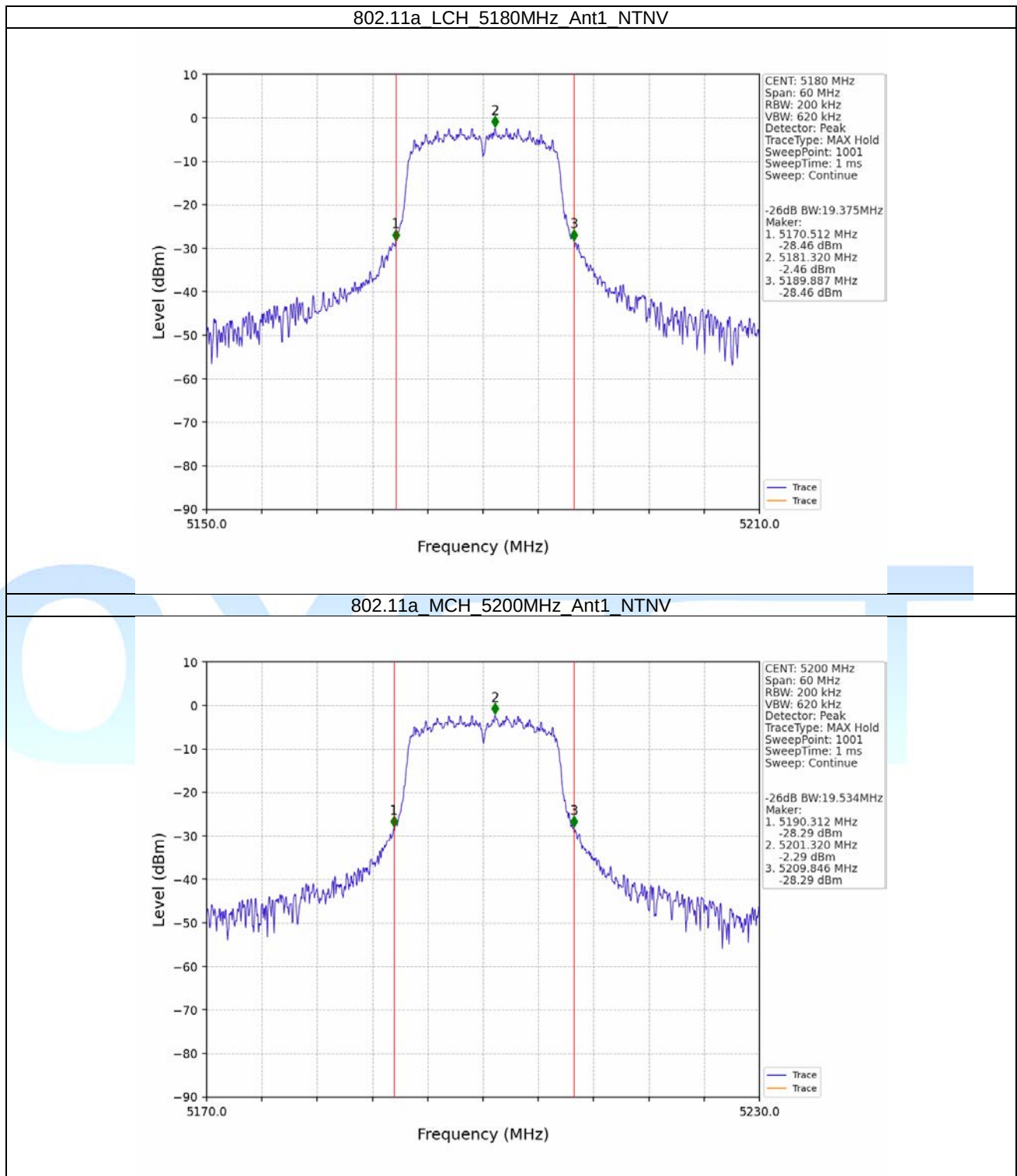
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



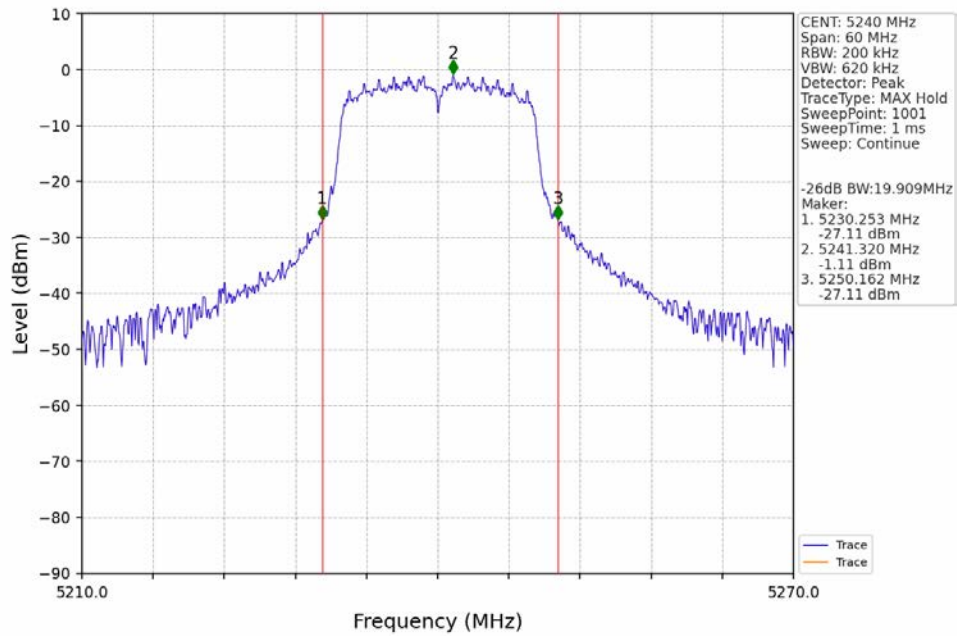
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



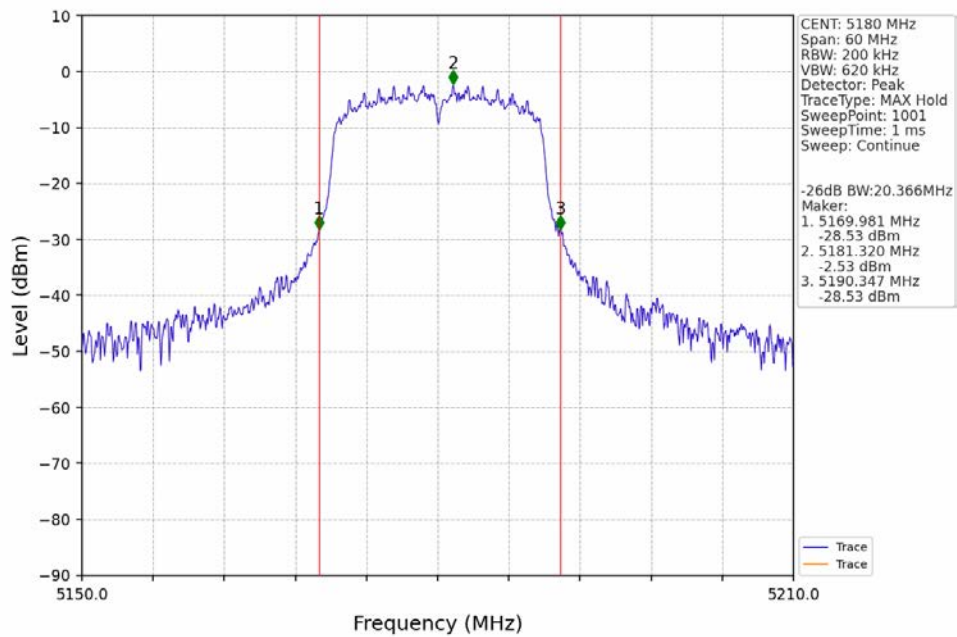
2.2.2 26dB BW



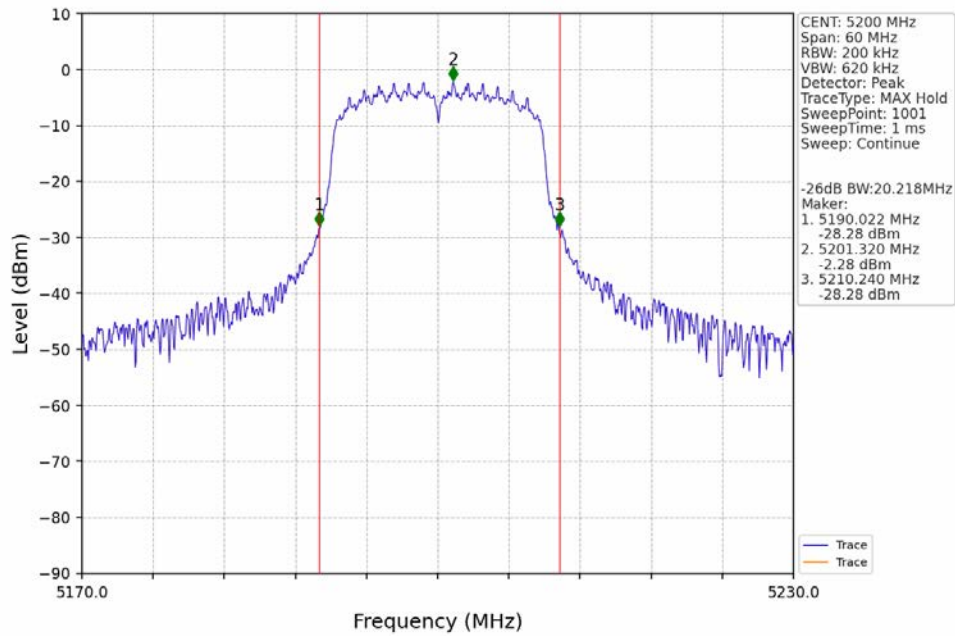
802.11a_HCH_5240MHz_Ant1_NTNV



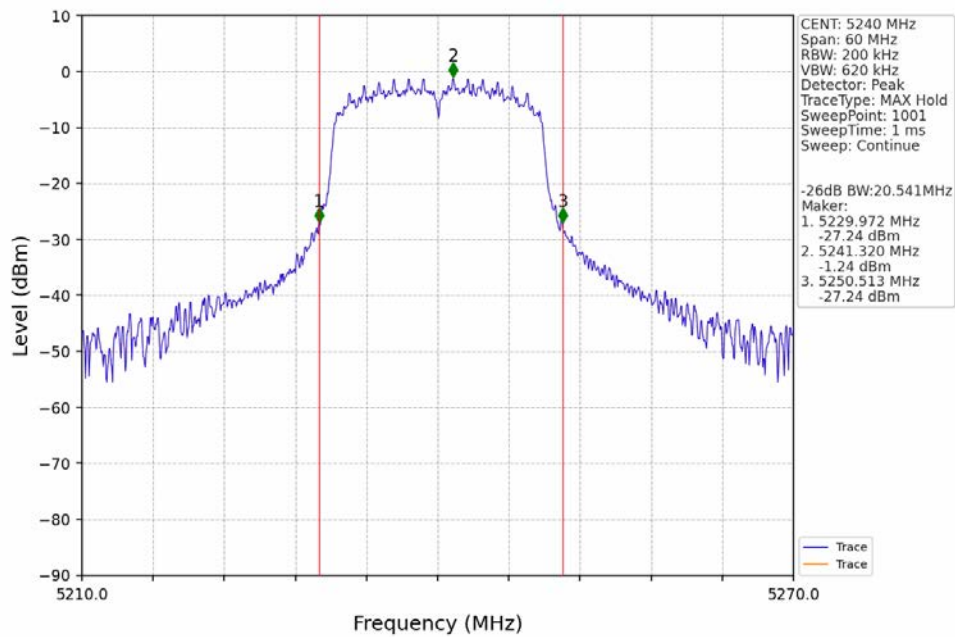
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



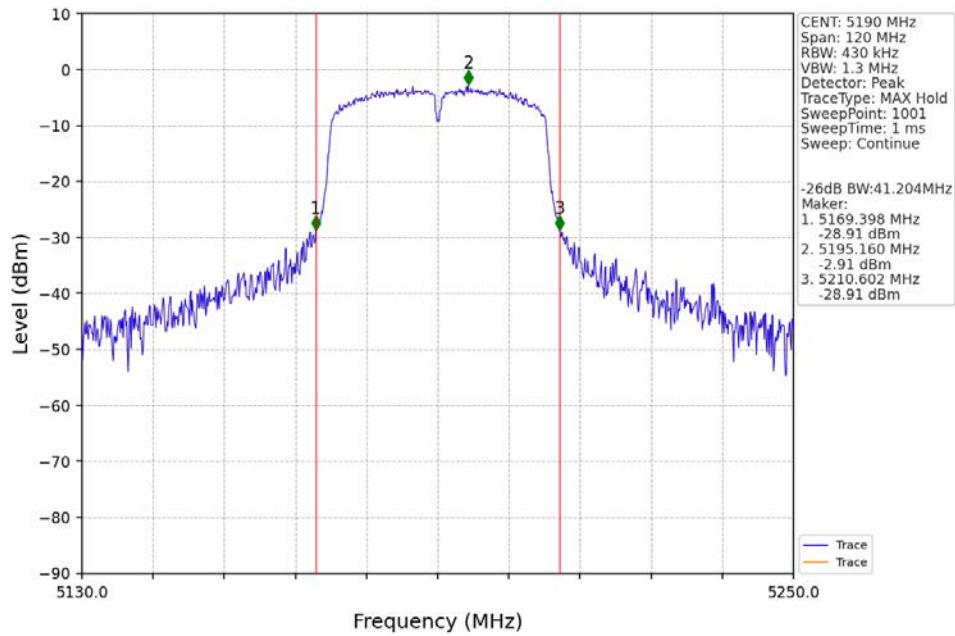
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



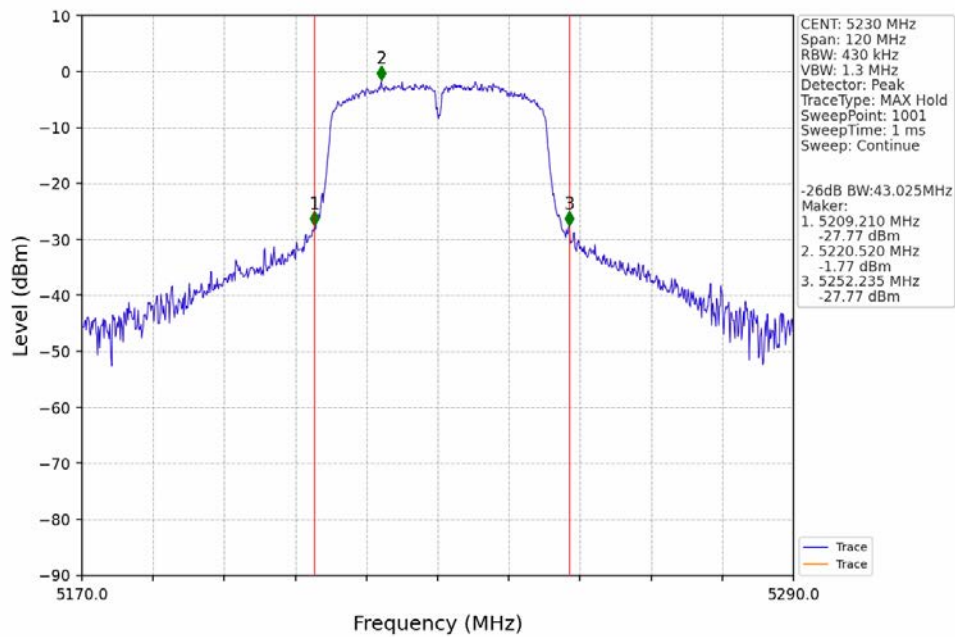
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



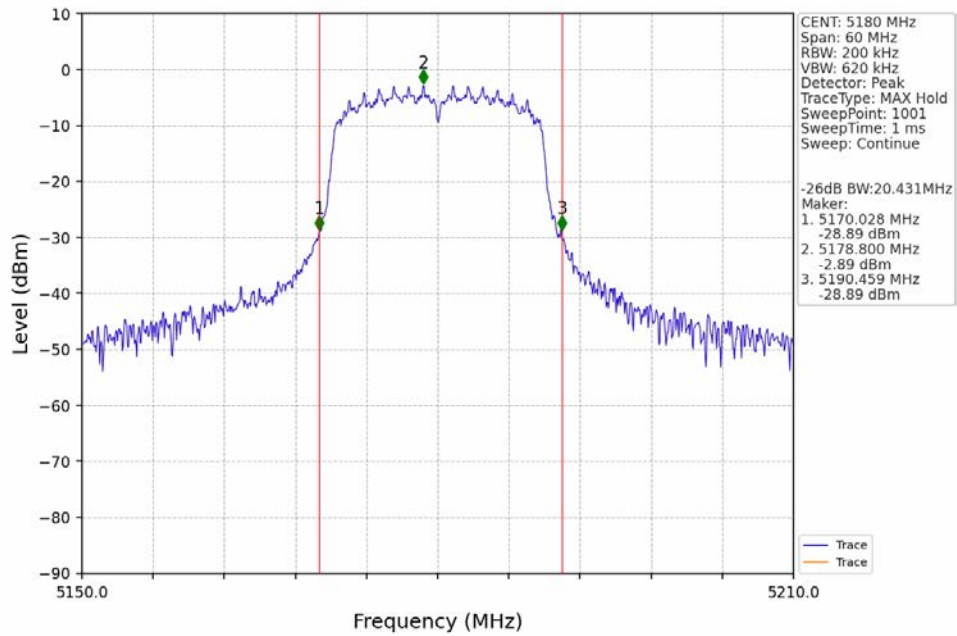
802.11n(HT40) LCH 5190MHz_Ant1_NTNV



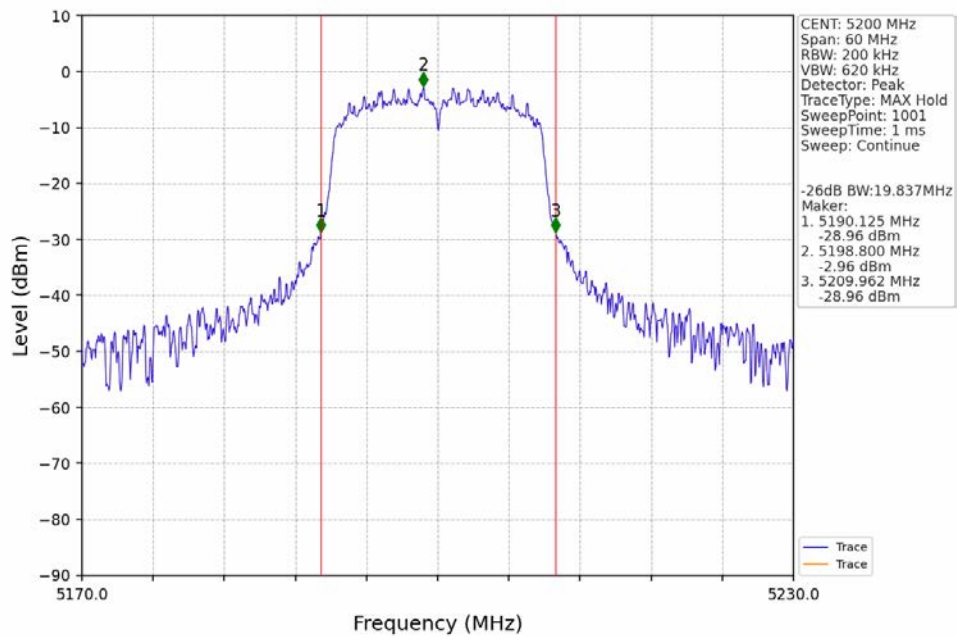
802.11n(HT40) HCH 5230MHz_Ant1_NTNV



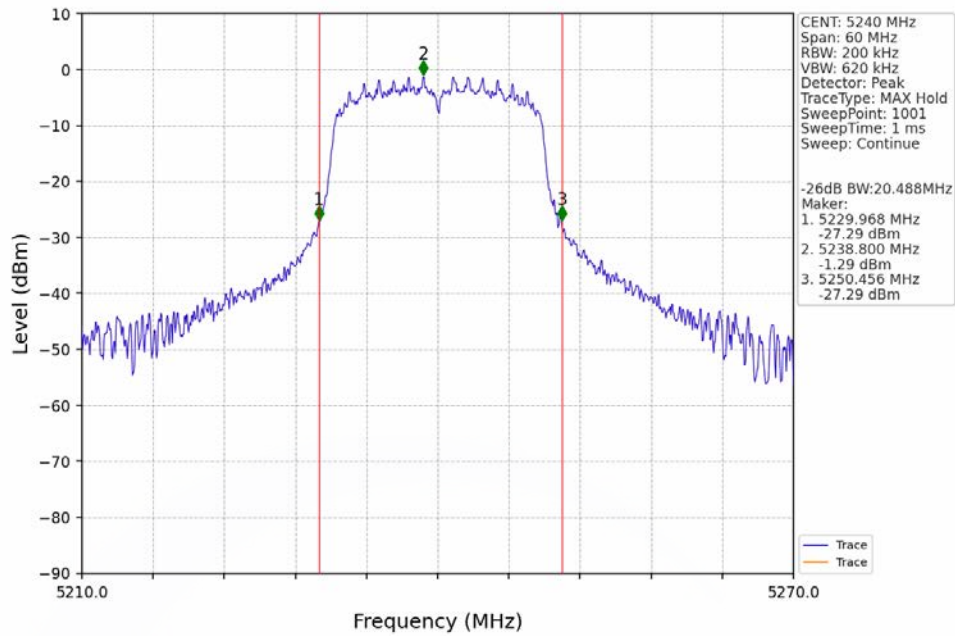
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



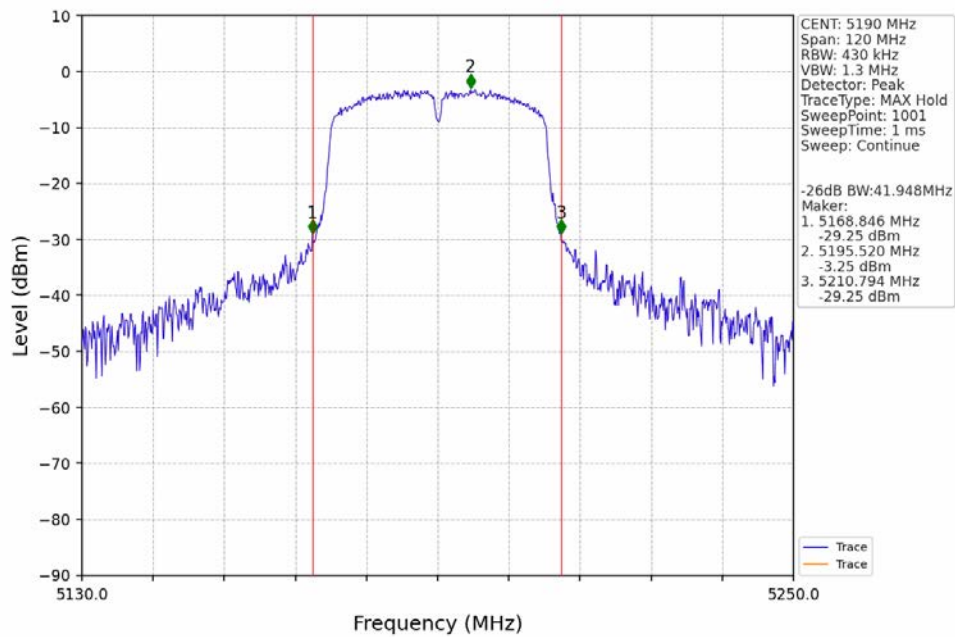
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



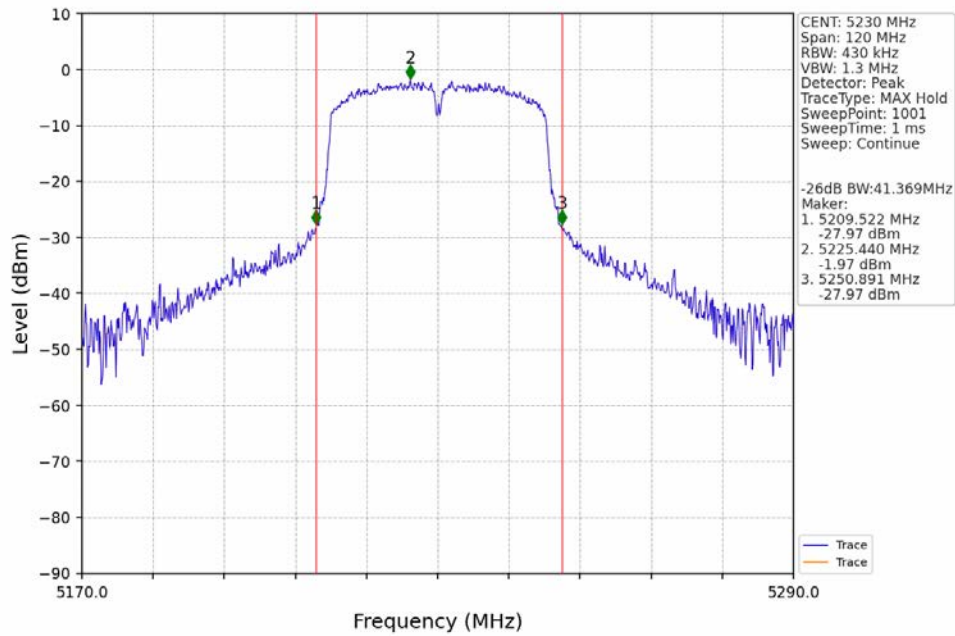
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



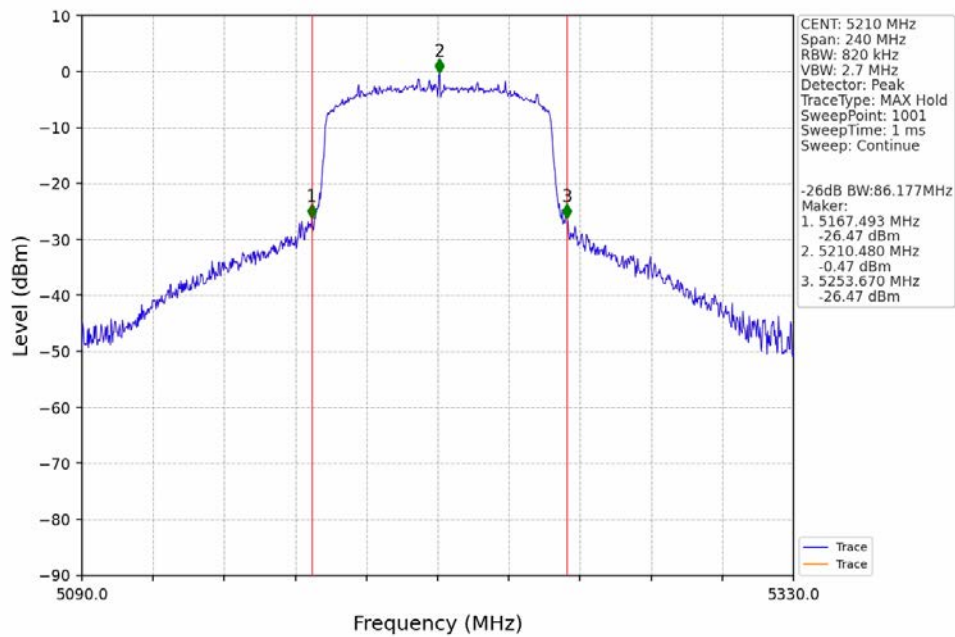
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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	5180	6.31	<=23.98	Pass
		5200	6.85	<=23.98	Pass
		5240	7.59	<=23.98	Pass
802.11n (HT20)	SISO	5180	6.49	<=23.98	Pass
		5200	6.61	<=23.98	Pass
		5240	7.19	<=23.98	Pass
802.11n (HT40)	SISO	5190	6.25	<=23.98	Pass
		5230	7.27	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	6.17	<=23.98	Pass
		5200	6.05	<=23.98	Pass
		5240	7.48	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	6.06	<=23.98	Pass
		5230	7.30	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	8.02	<=23.98	Pass

Note1: Antenna Gain: Ant1: 3.48dBi;

4. Maximum Power Spectral Density

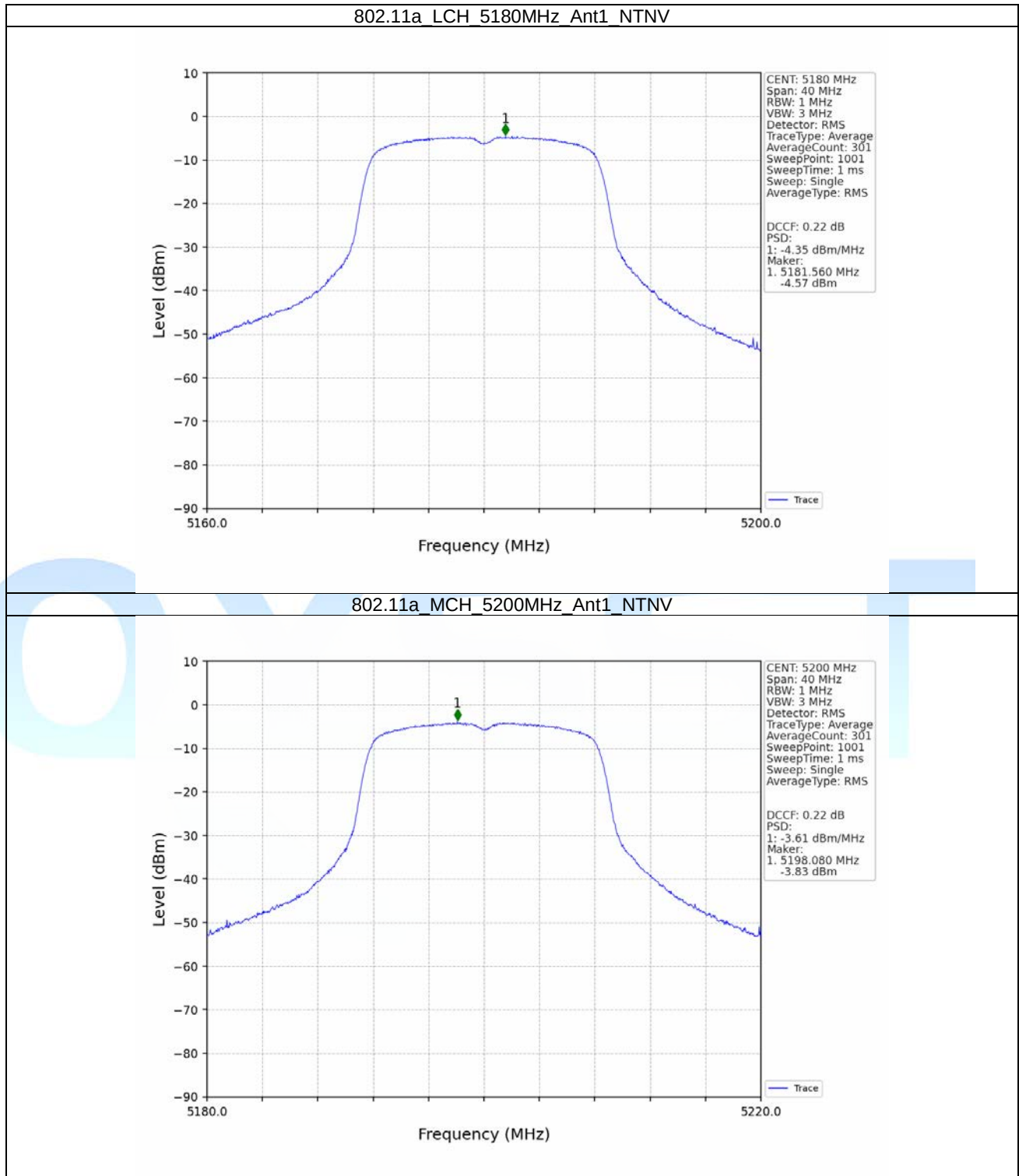
4.1 Test Result

4.1.1 PSD

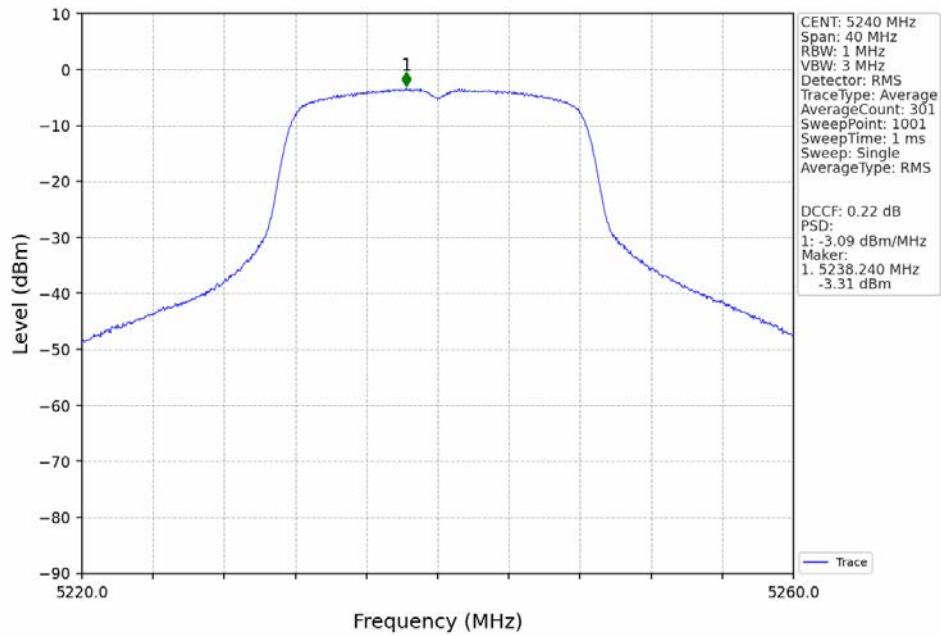
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-4.35	<=11	Pass
		5200	-3.61	<=11	Pass
		5240	-3.09	<=11	Pass
802.11n (HT20)	SISO	5180	-4.41	<=11	Pass
		5200	-4.34	<=11	Pass
		5240	-3.59	<=11	Pass
802.11n (HT40)	SISO	5190	-7.80	<=11	Pass
		5230	-6.79	<=11	Pass
802.11ac (VHT20)	SISO	5180	-4.75	<=11	Pass
		5200	-4.73	<=11	Pass
		5240	-3.30	<=11	Pass
802.11ac (VHT40)	SISO	5190	-7.93	<=11	Pass
		5230	-6.60	<=11	Pass
802.11ac (VHT80)	SISO	5210	-9.22	<=11	Pass
Note1: Antenna Gain: Ant1: 3.48dBi; Note2: Test result contains DCCF					

4.2 Test Graph

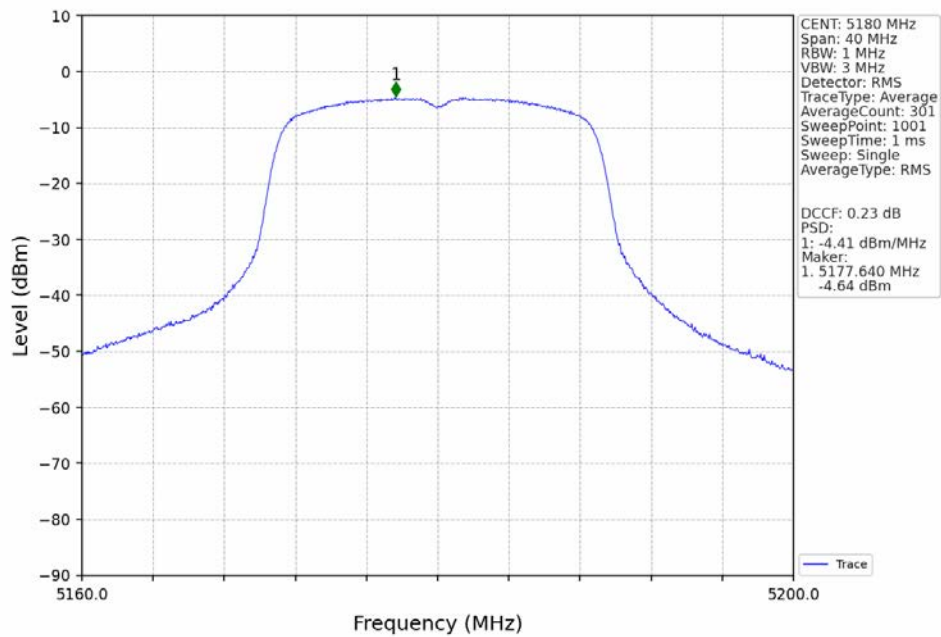
4.2.1 PSD



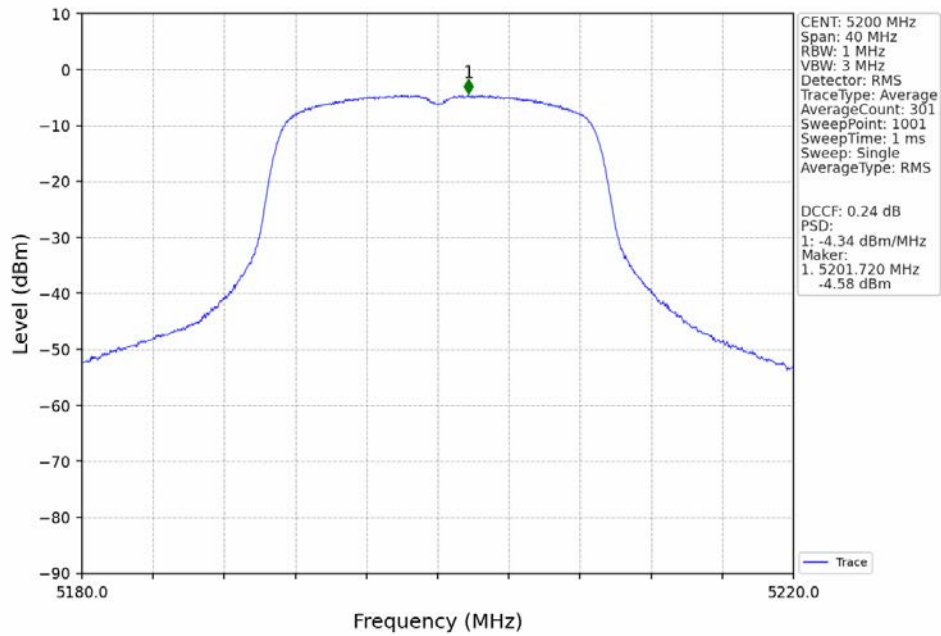
802.11a_HCH_5240MHz_Ant1_NTNV



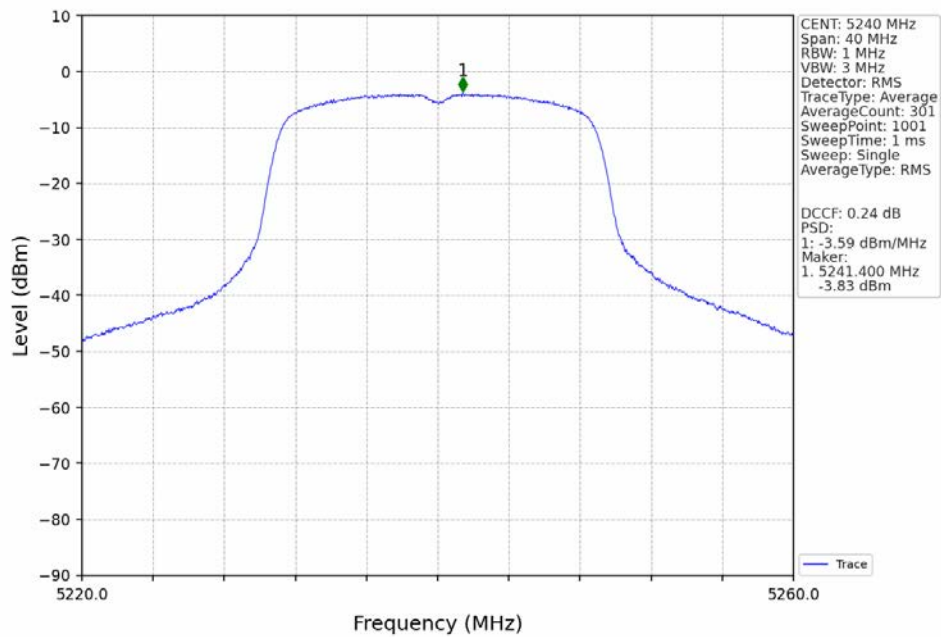
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



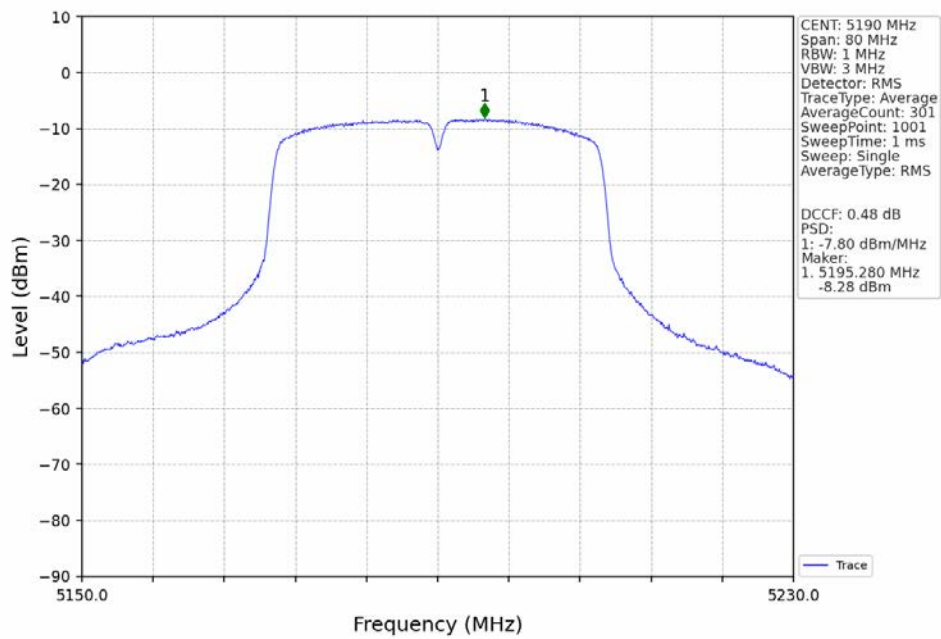
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



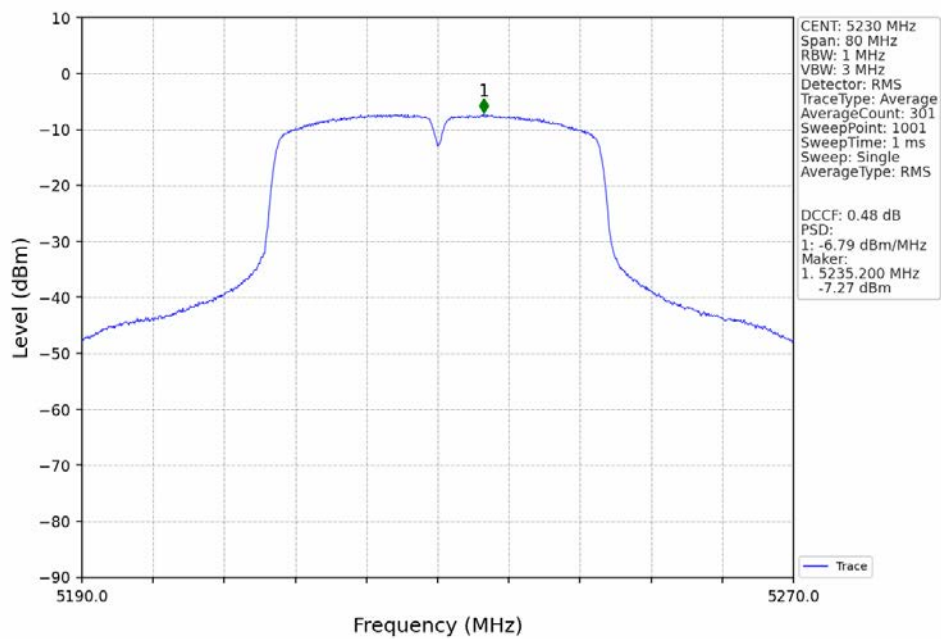
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



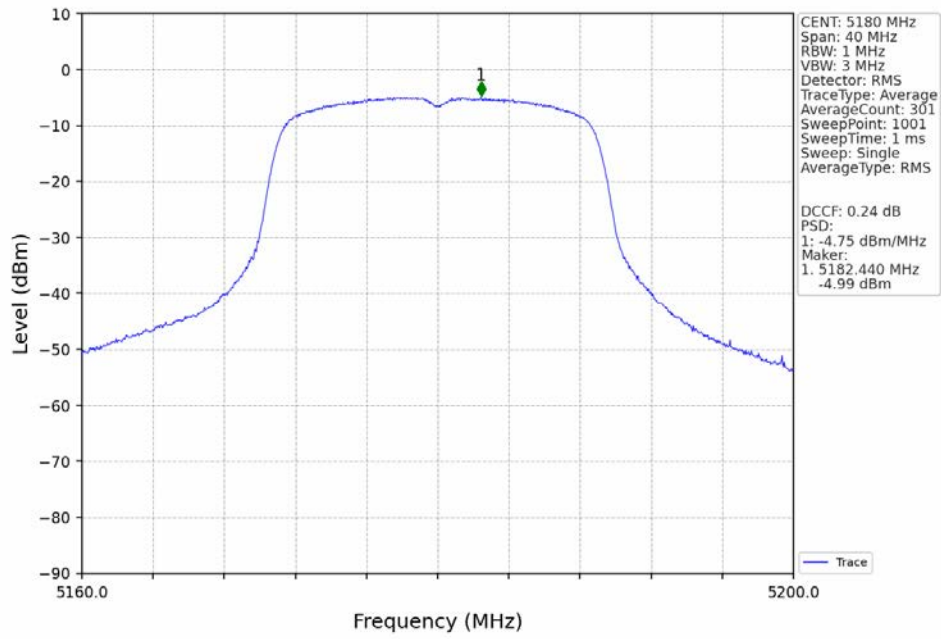
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



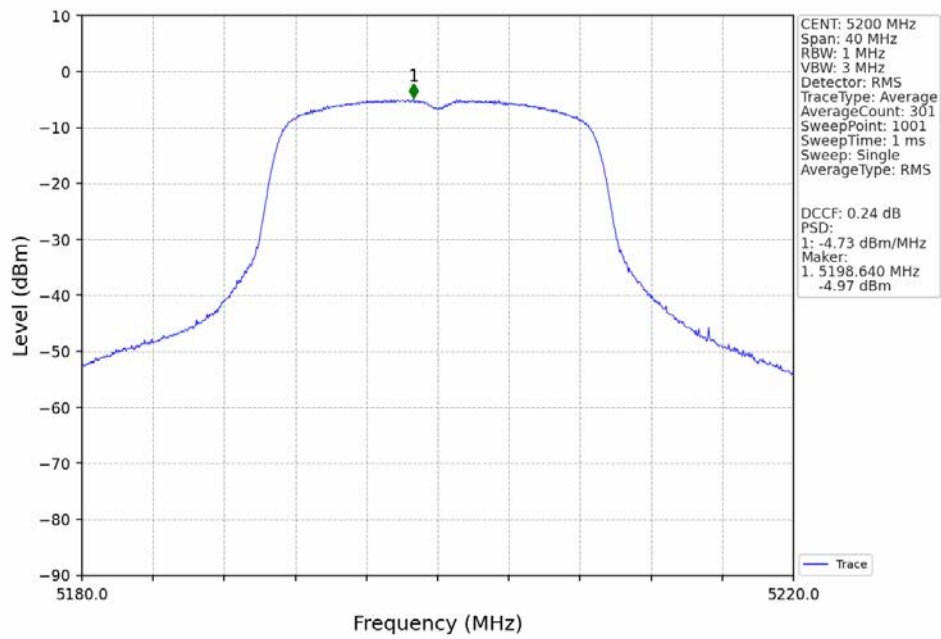
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



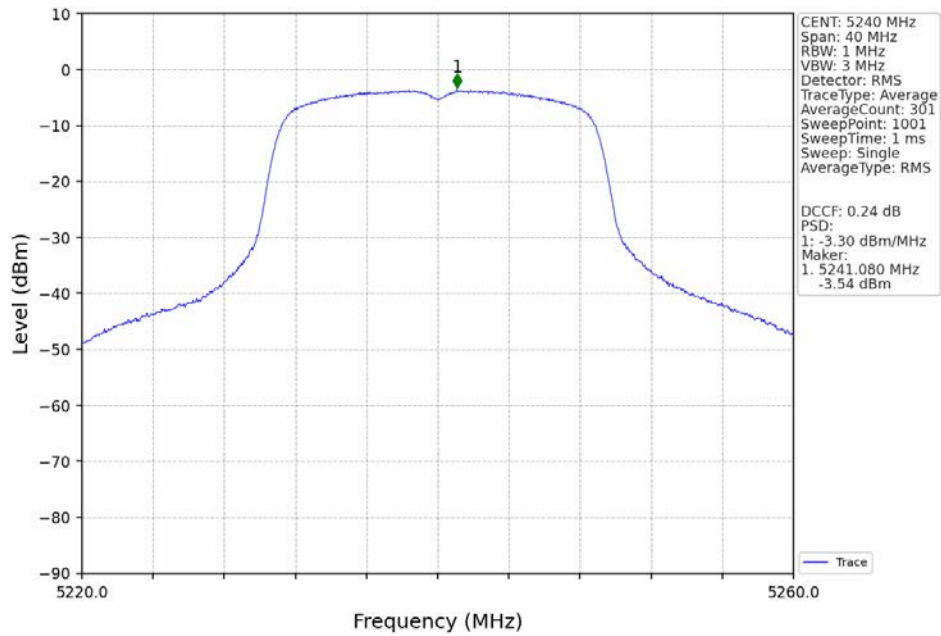
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



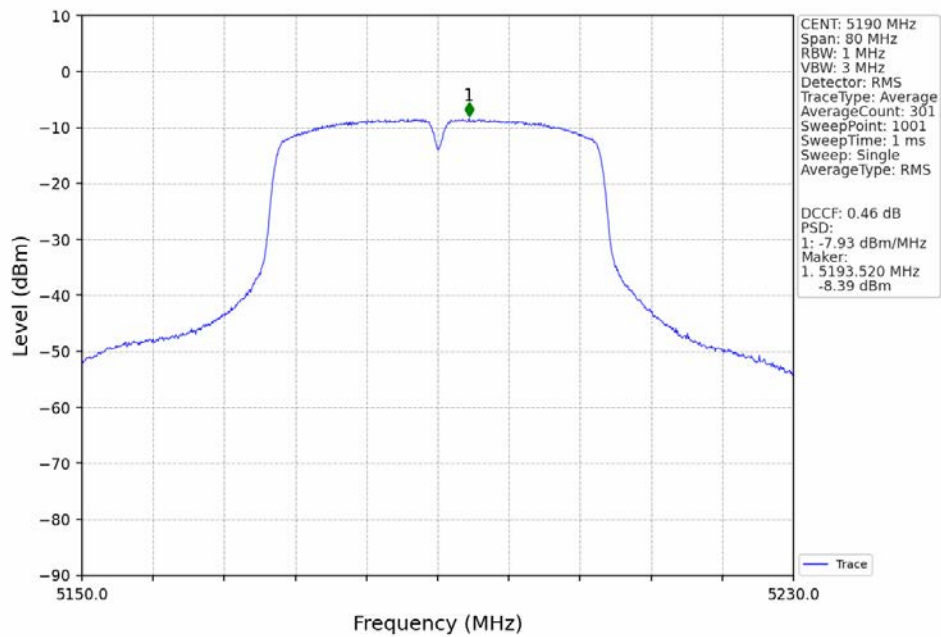
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



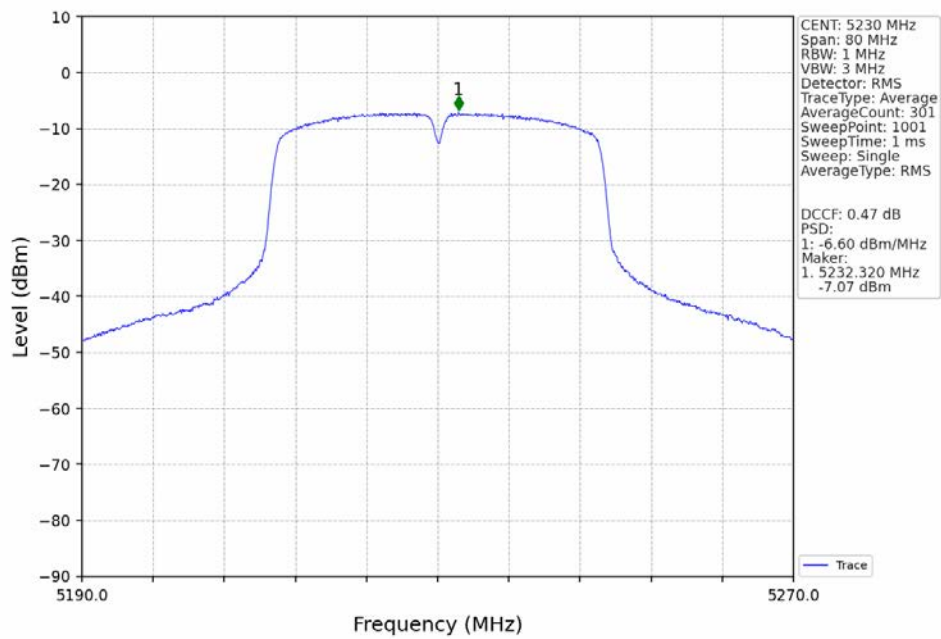
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



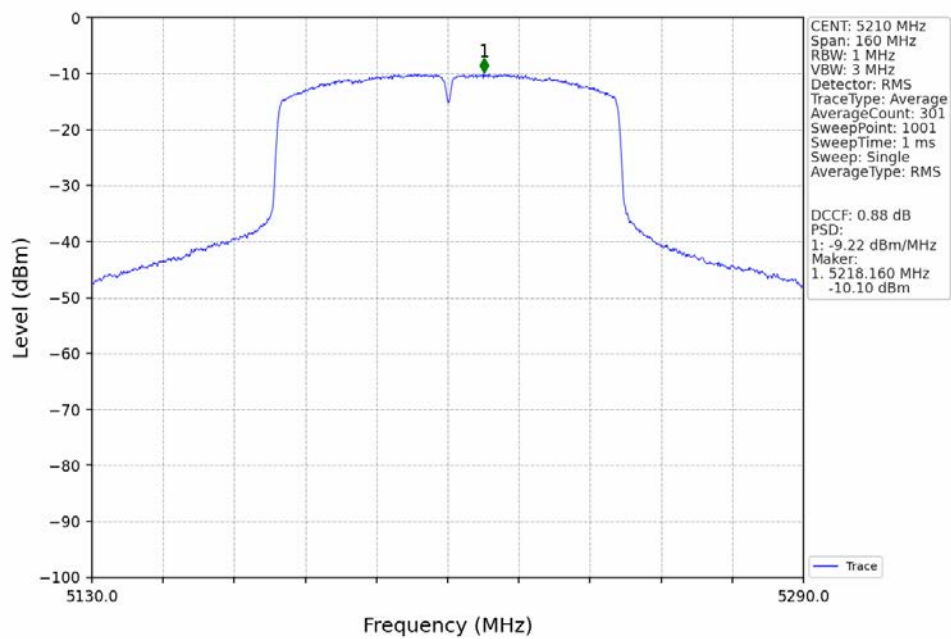
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



5. Unwanted Emissions In Restricted Frequency Bands

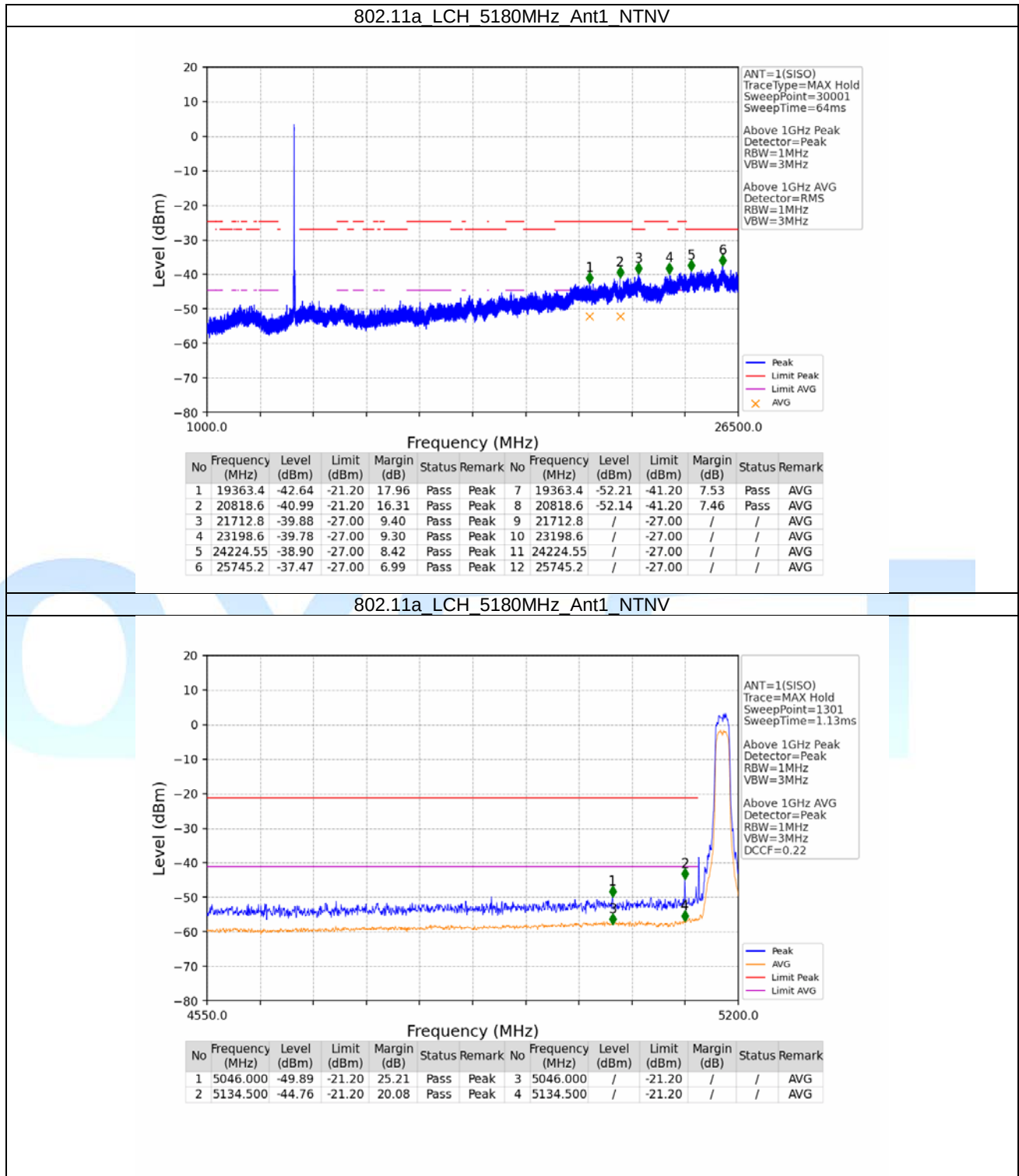
5.1 Test Result

5.1.1 RSE

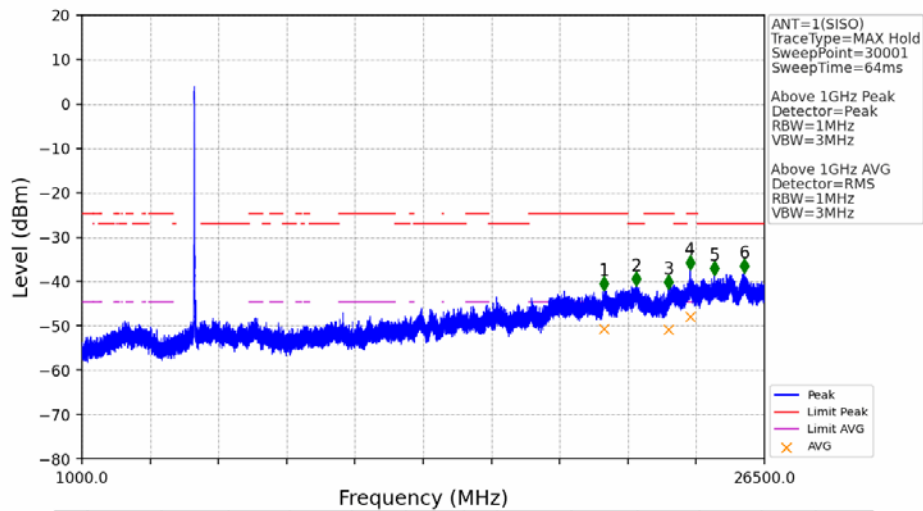
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11n (HT20)	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11n (HT40)	SISO	5190	1	Refer To Test Graph		Pass
		5230	1	Refer To Test Graph		Pass
802.11ac (VHT20)	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11ac (VHT40)	SISO	5190	1	Refer To Test Graph		Pass
		5230	1	Refer To Test Graph		Pass
802.11ac (VHT80)	SISO	5210	1	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 RSE

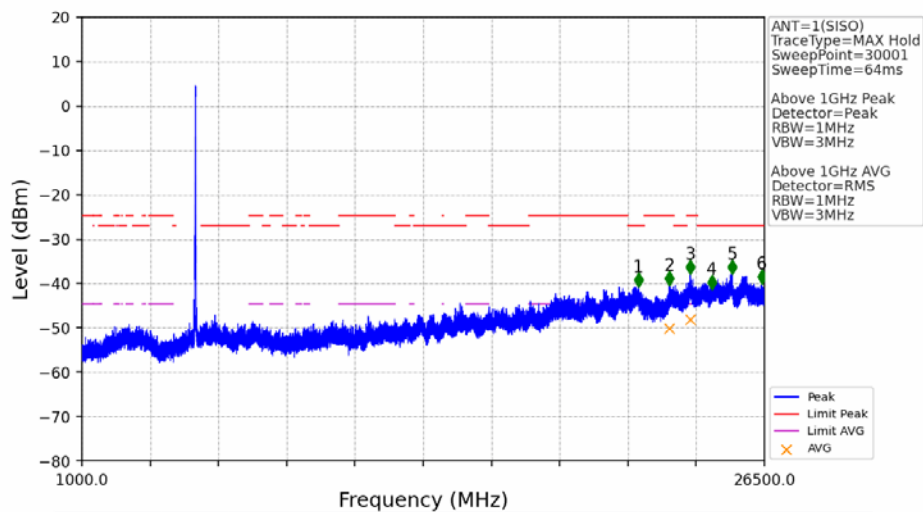


802.11a_MCH_5200MHz_Ant1_NTNV



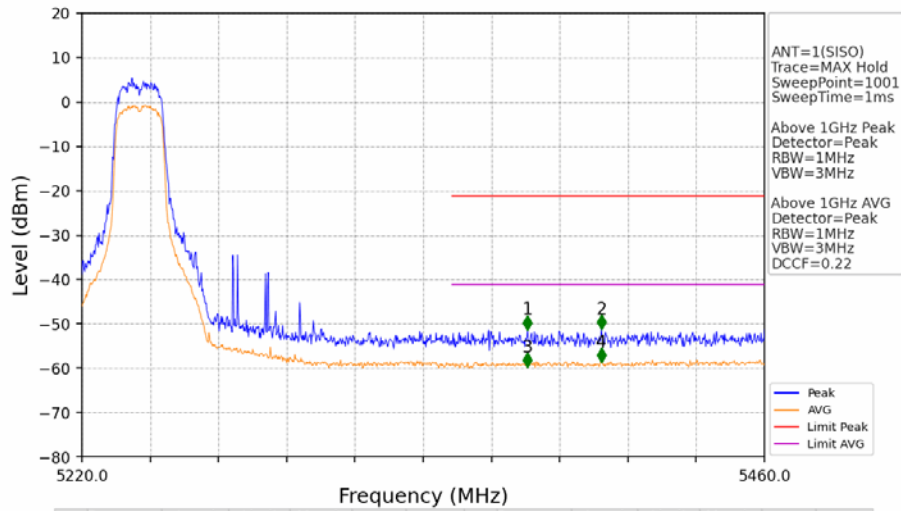
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20513.45	-42.01	-21.20	17.33	Pass	Peak	7	20513.45	-50.66	-41.20	5.98	Pass	AVG
2	21706	-40.99	-27.00	10.52	Pass	Peak	8	21706	/	-27.00	/	/	AVG
3	22911.3	-41.66	-21.20	16.98	Pass	Peak	9	22911.3	-50.81	-41.20	6.13	Pass	AVG
4	23729	-37.26	-21.20	12.58	Pass	Peak	10	23729	-47.91	-41.20	3.23	Pass	AVG
5	24626.6	-38.66	-27.00	8.18	Pass	Peak	11	24626.6	/	-27.00	/	/	AVG
6	25738.4	-38.14	-27.00	7.66	Pass	Peak	12	25738.4	/	-27.00	/	/	AVG

802.11a_HCH_5240MHz_Ant1_NTNV

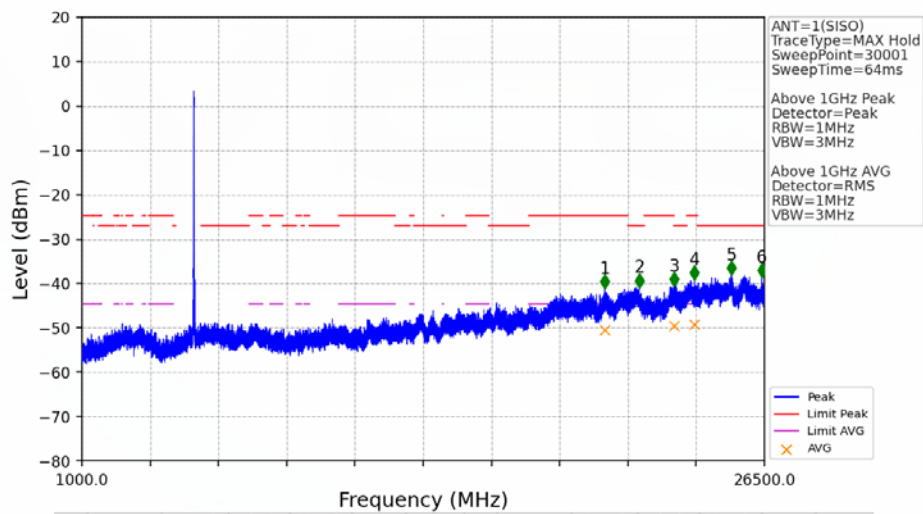


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21788.45	-40.71	-27.00	10.23	Pass	Peak	7	21788.45	/	-27.00	/	/	AVG
2	22946.15	-40.44	-21.20	15.76	Pass	Peak	8	22946.15	-50.15	-41.20	5.47	Pass	AVG
3	23728.15	-37.83	-21.20	13.15	Pass	Peak	9	23728.15	-48.04	-41.20	3.36	Pass	AVG
4	24528.85	-41.27	-27.00	10.79	Pass	Peak	10	24528.85	/	-27.00	/	/	AVG
5	25294.7	-37.95	-27.00	7.47	Pass	Peak	11	25294.7	/	-27.00	/	/	AVG
6	26398	-40.08	-27.00	9.60	Pass	Peak	12	26398	/	-27.00	/	/	AVG

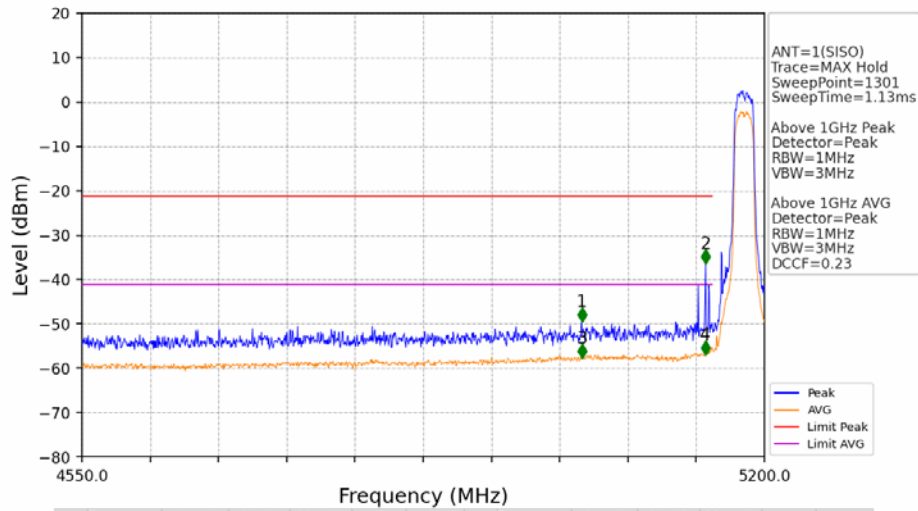
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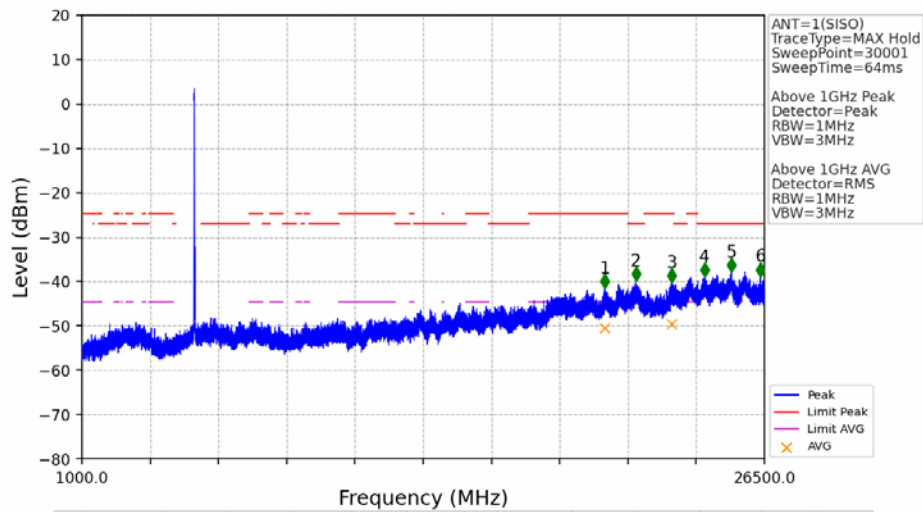
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



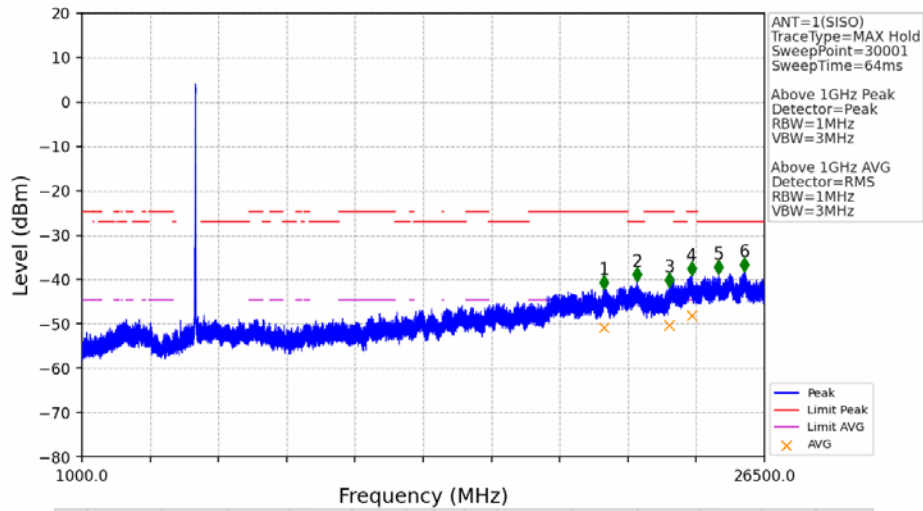
802.11n(HT20) LCH_5180MHz_Ant1_NTNV



802.11n(HT20) MCH_5200MHz_Ant1_NTNV

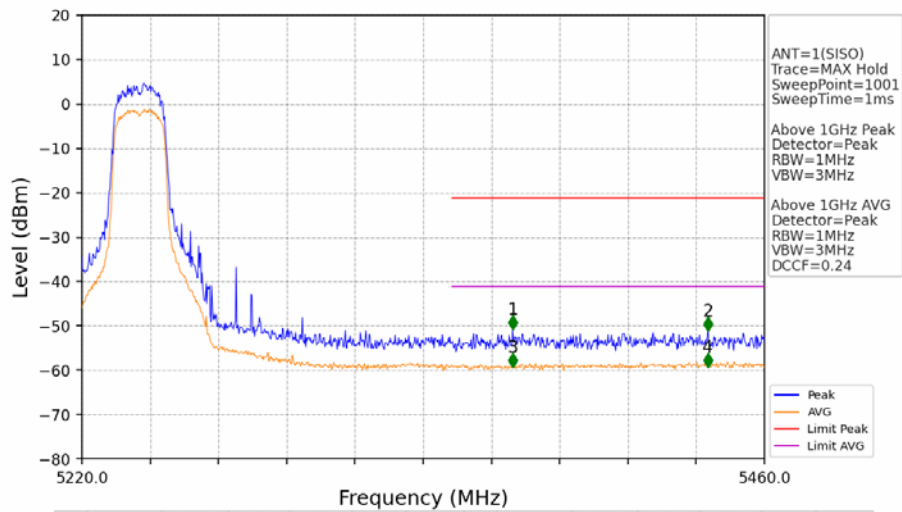


802.11n(HT20) HCH 5240MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	20497.3	-42.21	-21.20	17.53	Pass Peak	7	20497.3	-50.79	-41.20	6.11	Pass AVG
2	21743.4	-40.41	-27.00	9.93	Pass Peak	8	21743.4	/	-27.00	/	/ AVG
3	22931.7	-41.65	-21.20	16.97	Pass Peak	9	22931.7	-50.34	-41.20	5.66	Pass AVG
4	23777.45	-39.21	-21.20	14.53	Pass Peak	10	23777.45	-48.15	-41.20	3.47	Pass AVG
5	24794.05	-38.83	-27.00	8.35	Pass Peak	11	24794.05	/	-27.00	/	/ AVG
6	25749.45	-38.17	-27.00	7.69	Pass Peak	12	25749.45	/	-27.00	/	/ AVG

802.11n(HT20) HCH 5240MHz_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	5371.440	-50.77	-21.20	26.09	Pass Peak	3	5371.440	/	-21.20	/	/ AVG
2	5440.080	-51.15	-21.20	26.47	Pass Peak	4	5440.080	/	-21.20	/	/ AVG