

1. Duty Cycle

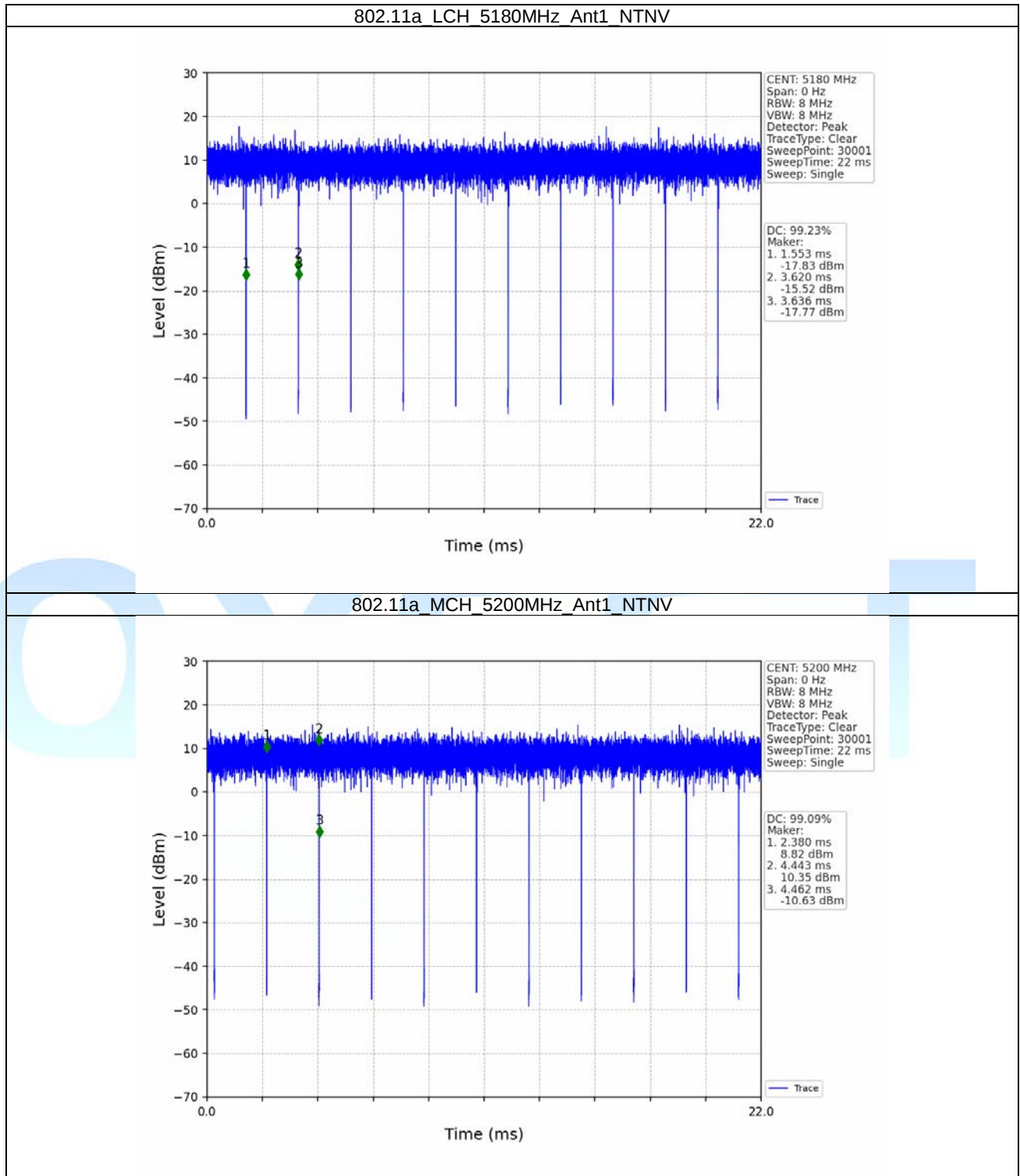
1.1 Test Result

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	/	/	2.067	2.083	99.23	0.03	0.04
		5200	/	/	2.063	2.082	99.09	0.04	0.04
		5240	/	/	2.066	2.083	99.18	0.04	0.04
802.11n (HT20)	MIMO	5180	/	/	1.920	1.939	99.02	0.04	0.00
		5200	/	/	1.922	1.939	99.12	0.04	0.03
		5240	/	/	1.922	1.939	99.12	0.04	0.03
802.11n (HT40)	MIMO	5190	/	/	1.539	1.555	98.97	0.04	0.03
		5230	/	/	1.539	1.555	98.97	0.04	0.03
802.11ac (VHT20)	MIMO	5180	/	/	1.318	1.415	93.14	0.31	0.03
		5200	/	/	1.318	1.414	93.21	0.31	0.00
		5240	/	/	1.318	1.414	93.21	0.31	0.00
802.11ac (VHT40)	MIMO	5190	/	/	1.547	1.563	98.98	0.04	0.00
		5230	/	/	1.546	1.562	98.98	0.04	0.00
802.11ac (VHT80)	MIMO	5210	/	/	2.243	2.260	99.25	0.03	0.04
802.11ax (HEW20)	MIMO	5180	RU242	Left	3.815	3.832	99.56	0.02	0.03
		5200	RU242	Left	3.815	3.832	99.56	0.02	0.03
		5240	RU242	Left	3.815	3.831	99.58	0.02	0.03
802.11ax (HEW40)	MIMO	5190	RU484	Left	1.241	1.267	97.95	0.09	0.03
		5230	RU484	Left	1.241	1.268	97.87	0.09	0.03
802.11ax (HEW80)	MIMO	5210	RU996	Left	0.168	0.187	89.84	0.47	0.10

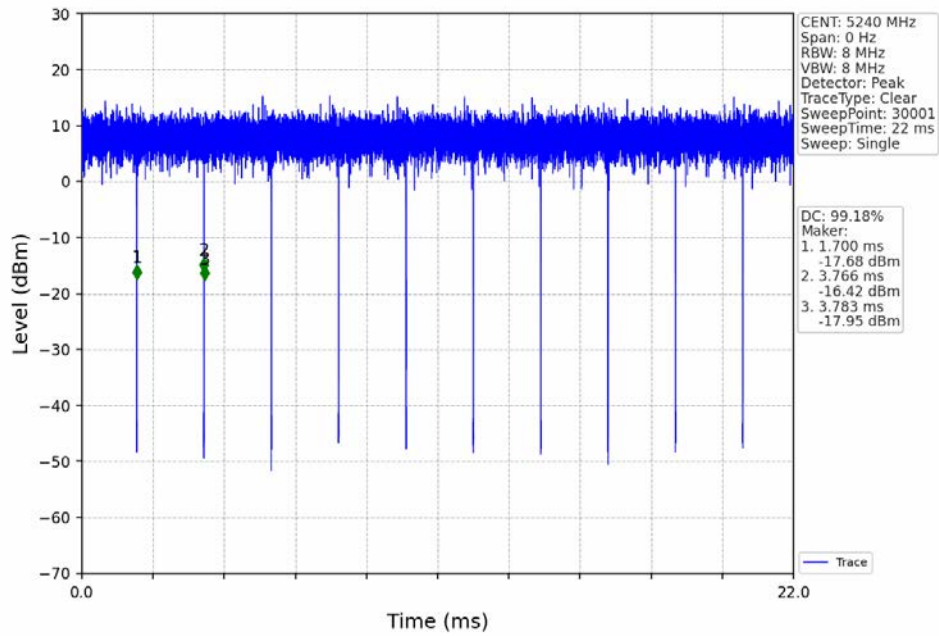
The duty cycle for two antennas were same, only ant 1 report

1.2 Test Graph

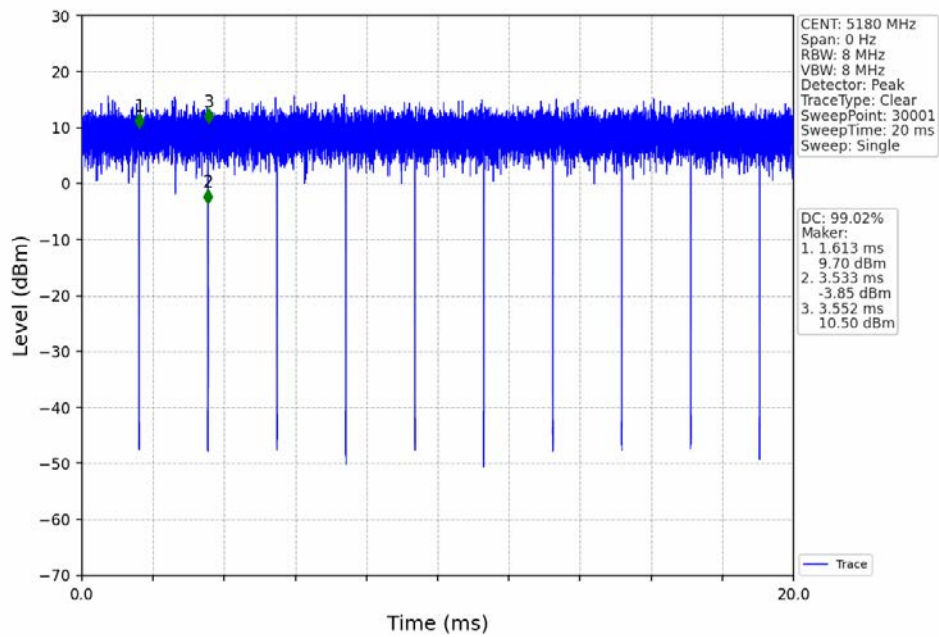
1.2.1 Ant1



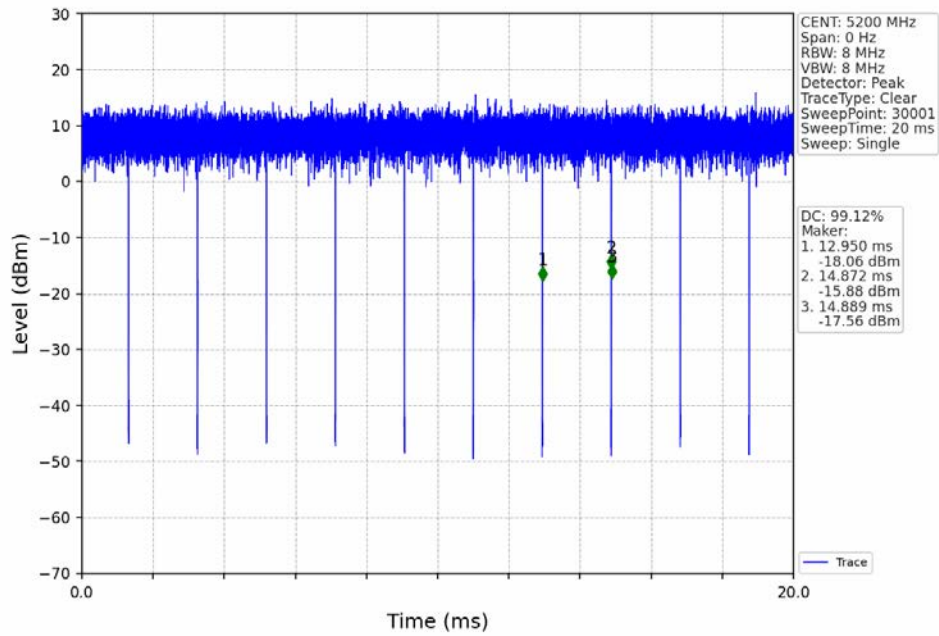
802.11a_HCH_5240MHz_Ant1_NTNV



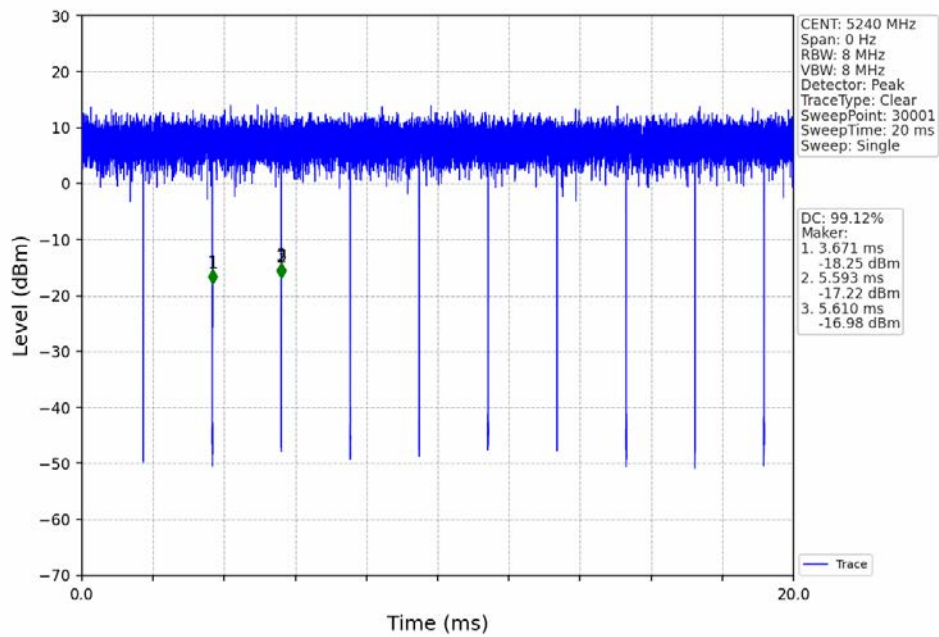
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



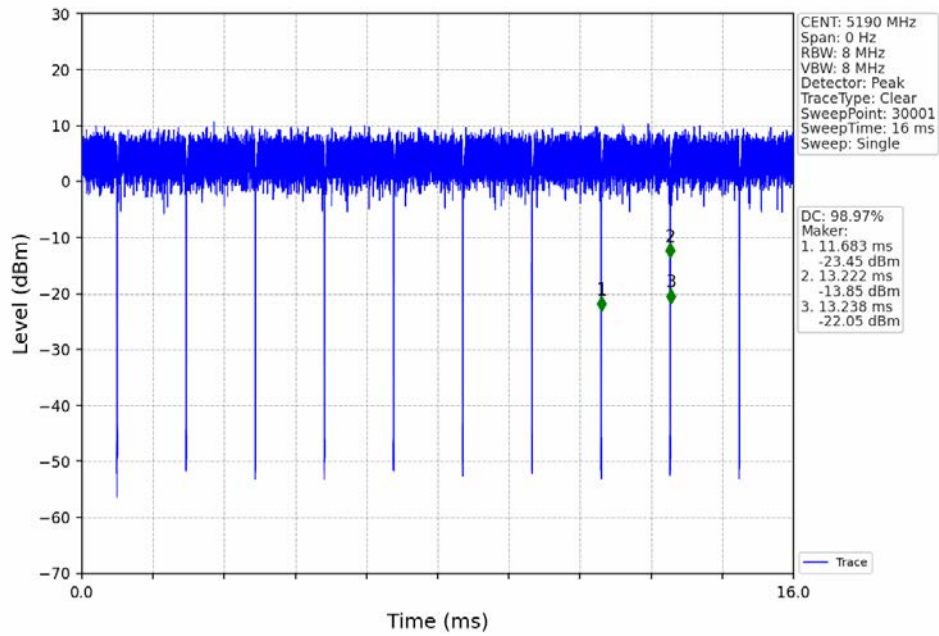
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



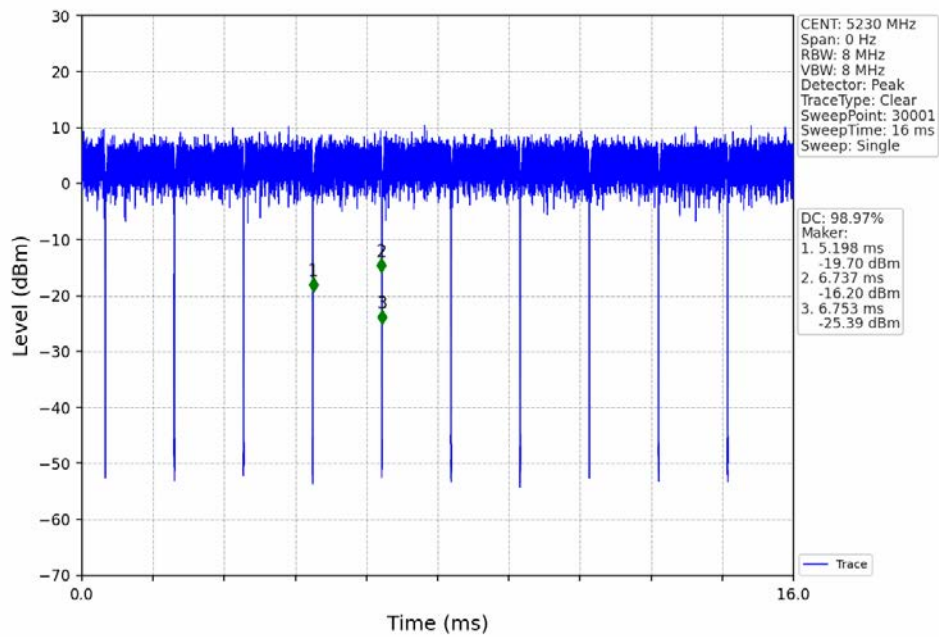
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



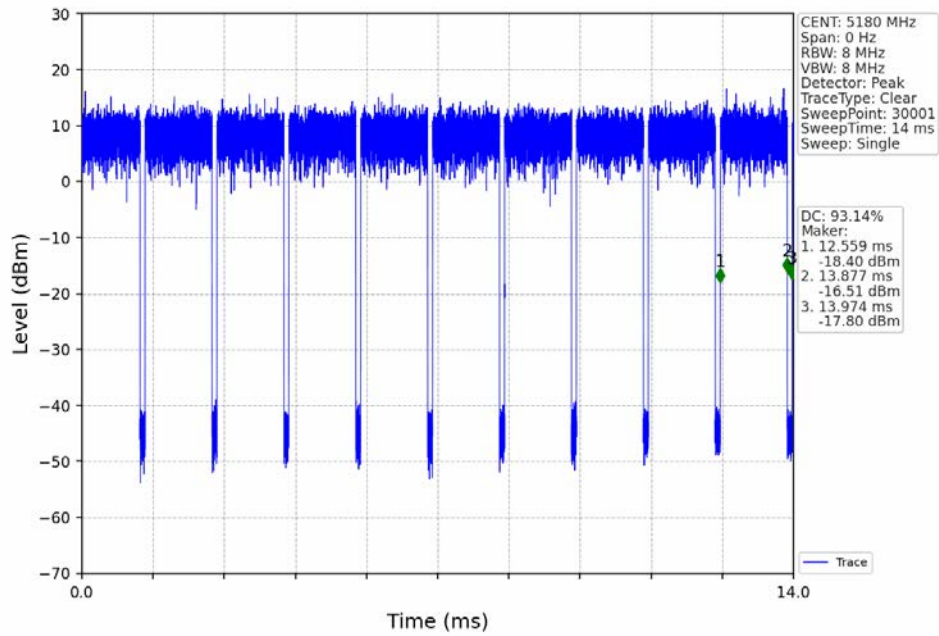
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



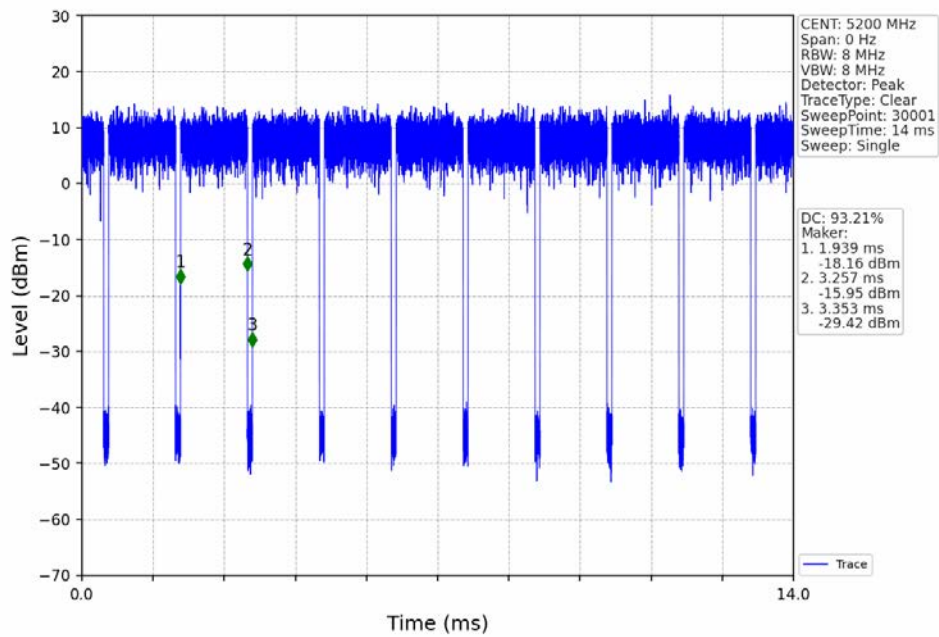
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



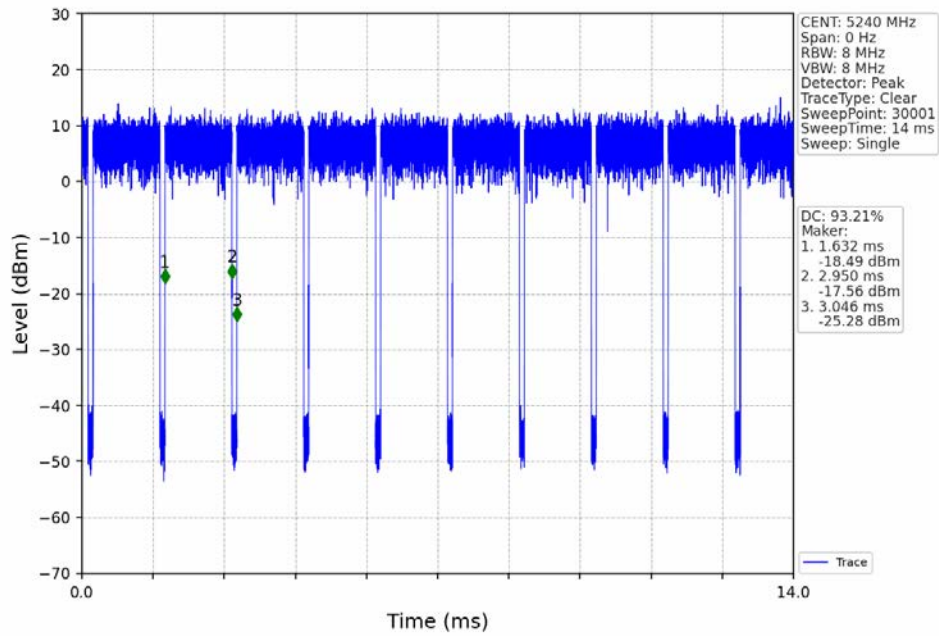
802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV



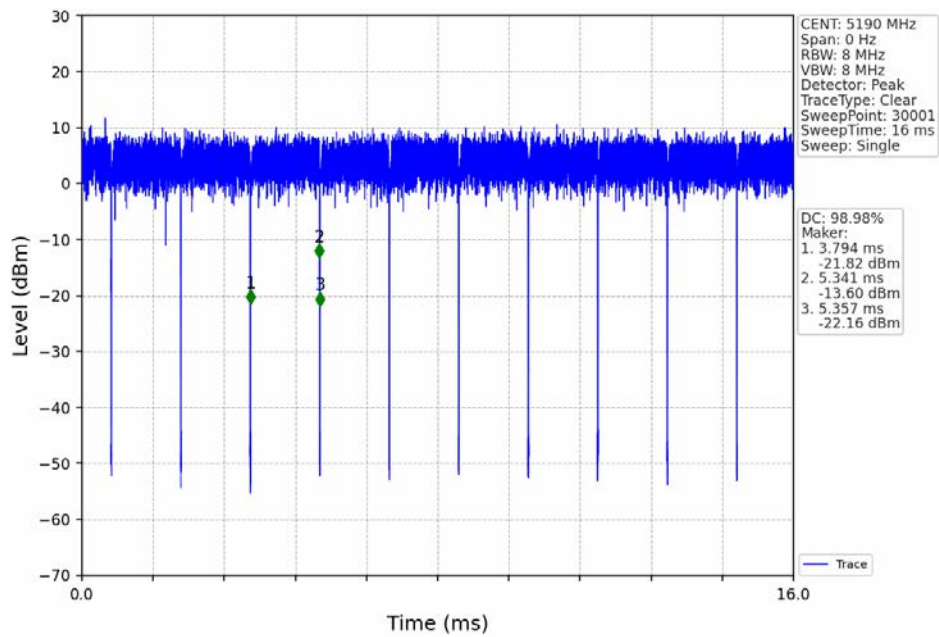
802.11ac(VHT20) MCH_5200MHz_Ant1_NTNV



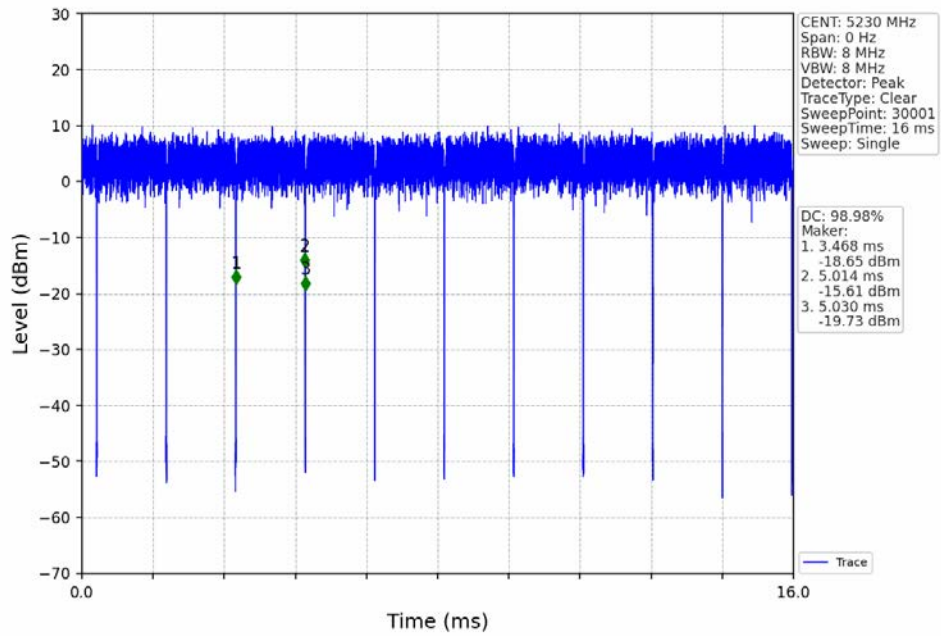
802.11ac(VHT20) HCH_5240MHz_Ant1_NTNV



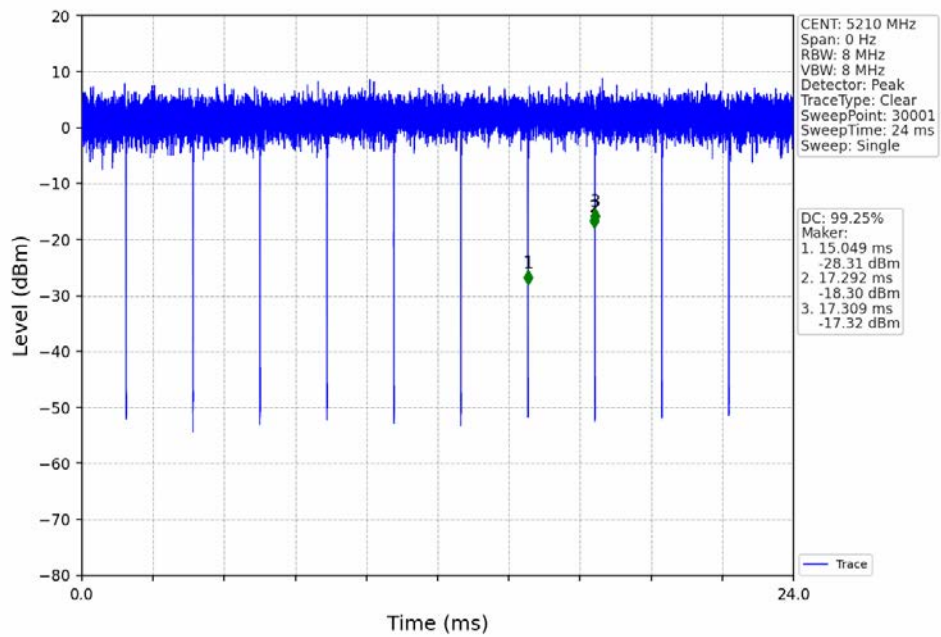
802.11ac(VHT40) LCH_5190MHz_Ant1_NTNV



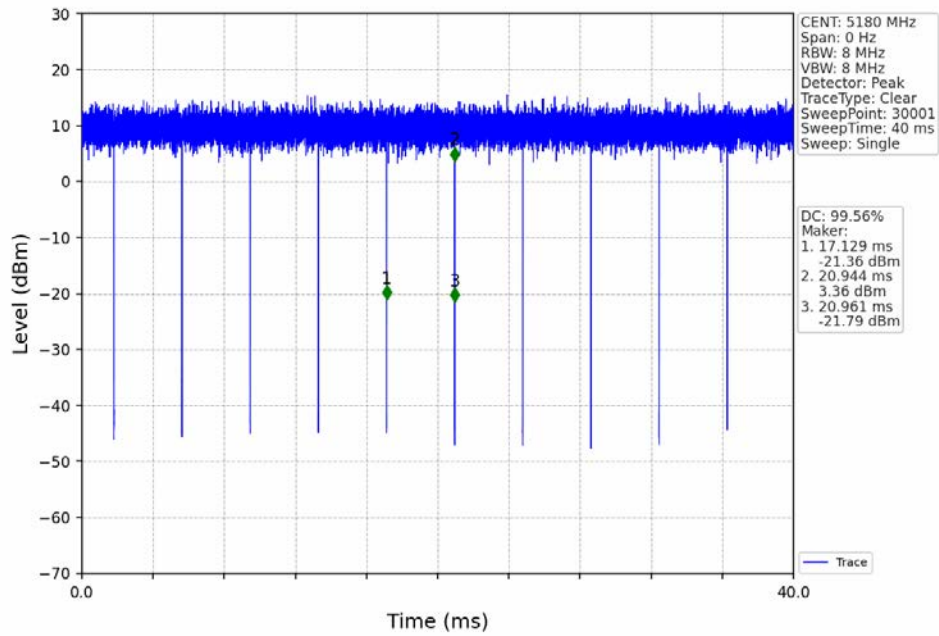
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



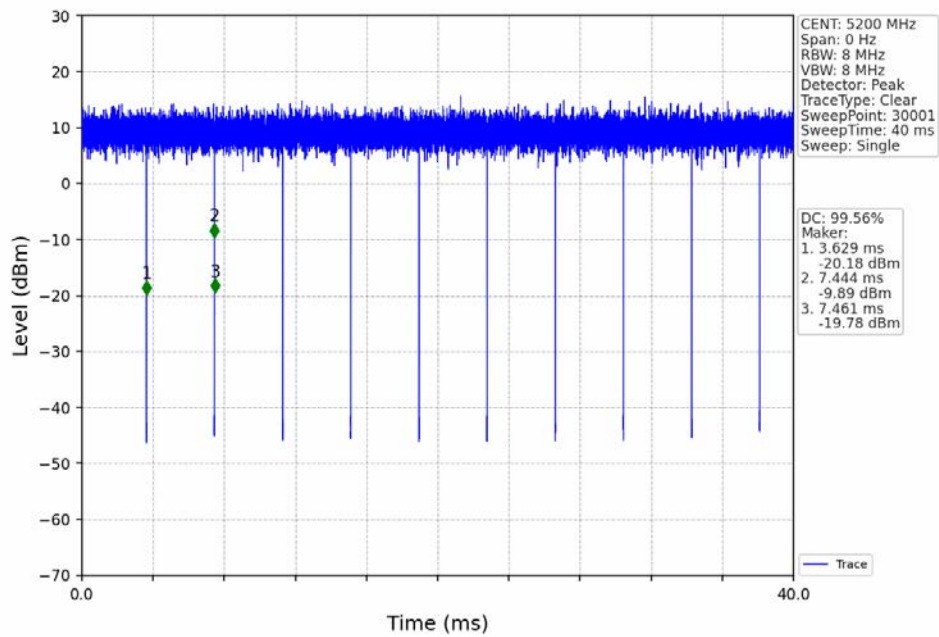
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



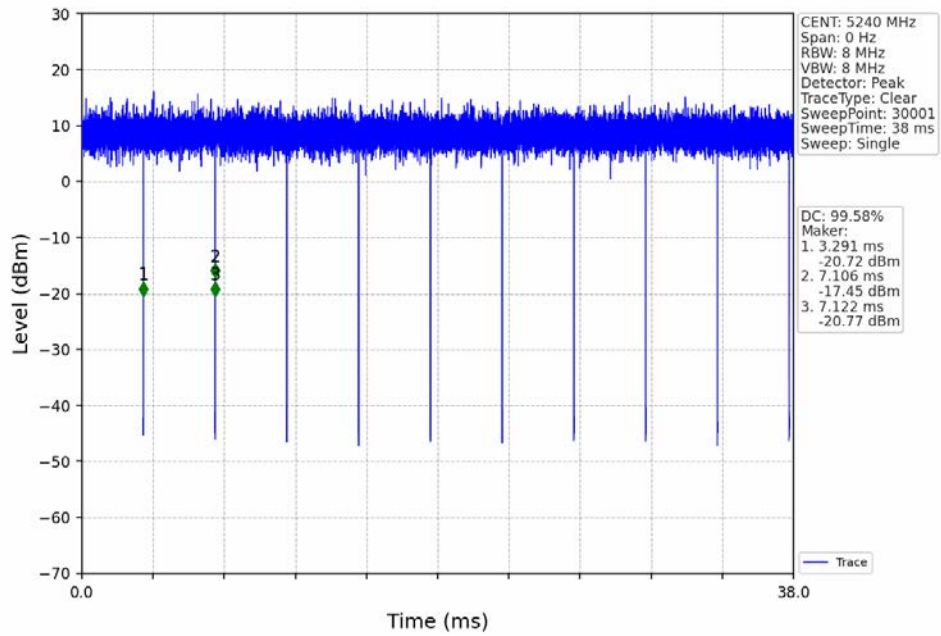
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



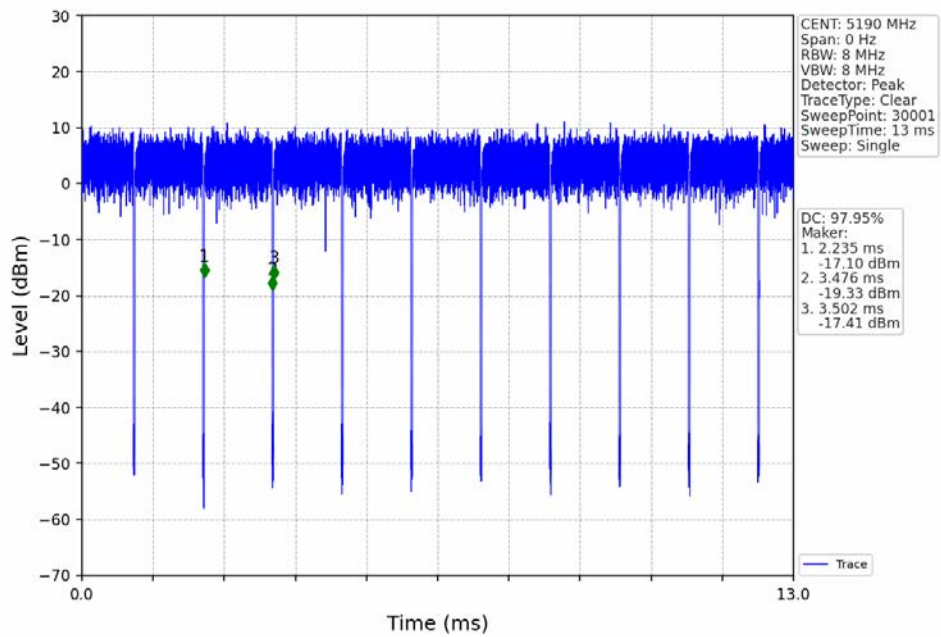
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



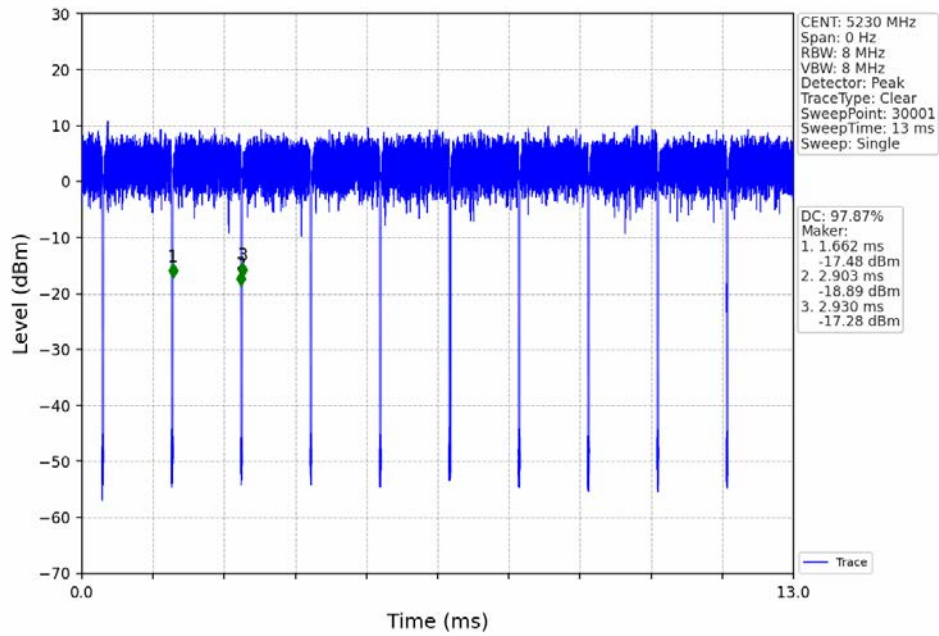
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



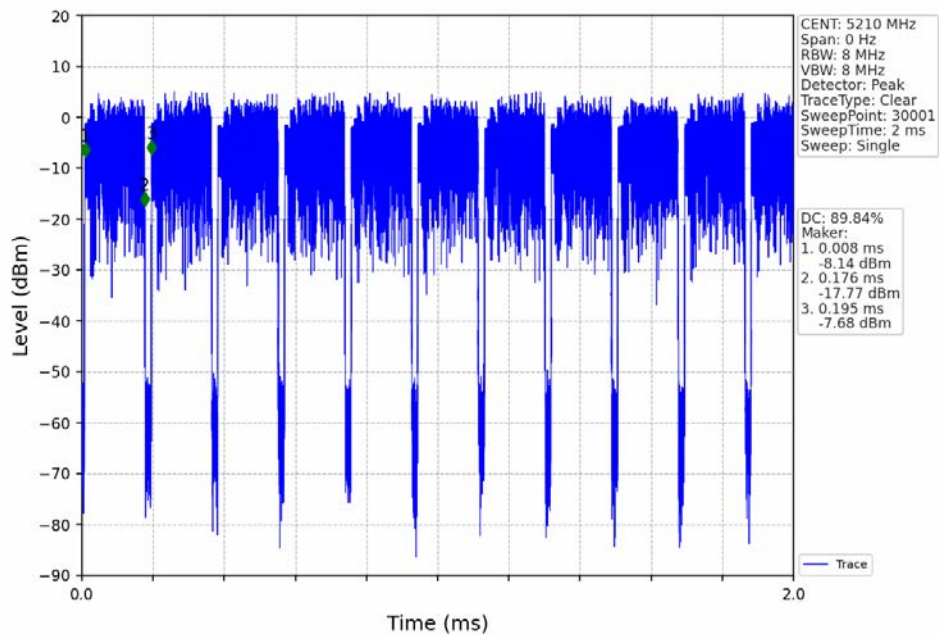
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5210MHz_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	17.223	/	Pass
		5200	/	/	1	17.185	/	Pass
		5240	/	/	1	17.178	/	Pass
802.11n (HT20)	MIMO	5180	/	/	1	18.058	/	Pass
		5200	/	/	1	18.028	/	Pass
		5240	/	/	1	18.026	/	Pass
802.11n (HT40)	MIMO	5190	/	/	1	36.294	/	Pass
		5230	/	/	1	36.230	/	Pass
802.11ac (VHT20)	MIMO	5180	/	/	1	18.036	/	Pass
		5200	/	/	1	18.023	/	Pass
		5240	/	/	1	18.009	/	Pass
802.11ac (VHT40)	MIMO	5190	/	/	1	36.290	/	Pass
		5230	/	/	1	36.108	/	Pass
802.11ac (VHT80)	MIMO	5210	/	/	1	75.290	/	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	1	19.151	/	Pass
		5200	RU242	Left	1	19.098	/	Pass
		5240	RU242	Left	1	19.208	/	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	1	37.962	/	Pass
		5230	RU484	Left	1	37.899	/	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	1	77.663	/	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	20.655	/	Pass
		5200	/	/	1	20.660	/	Pass
		5240	/	/	1	20.522	/	Pass
802.11n (HT20)	MIMO	5180	/	/	1	20.970	/	Pass
		5200	/	/	1	20.799	/	Pass
		5240	/	/	1	20.849	/	Pass
802.11n (HT40)	MIMO	5190	/	/	1	38.933	/	Pass
		5230	/	/	1	38.805	/	Pass
802.11ac (VHT20)	MIMO	5180	/	/	1	20.877	/	Pass
		5200	/	/	1	20.833	/	Pass
		5240	/	/	1	20.909	/	Pass
802.11ac (VHT40)	MIMO	5190	/	/	1	38.722	/	Pass
		5230	/	/	1	39.088	/	Pass
802.11ac (VHT80)	MIMO	5210	/	/	1	80.270	/	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	1	21.360	/	Pass
		5200	RU242	Left	1	21.148	/	Pass
		5240	RU242	Left	1	21.017	/	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	1	39.905	/	Pass
		5230	RU484	Left	1	40.095	/	Pass
802.11ax	MIMO	5210	RU996	Left	1	81.909	/	Pass

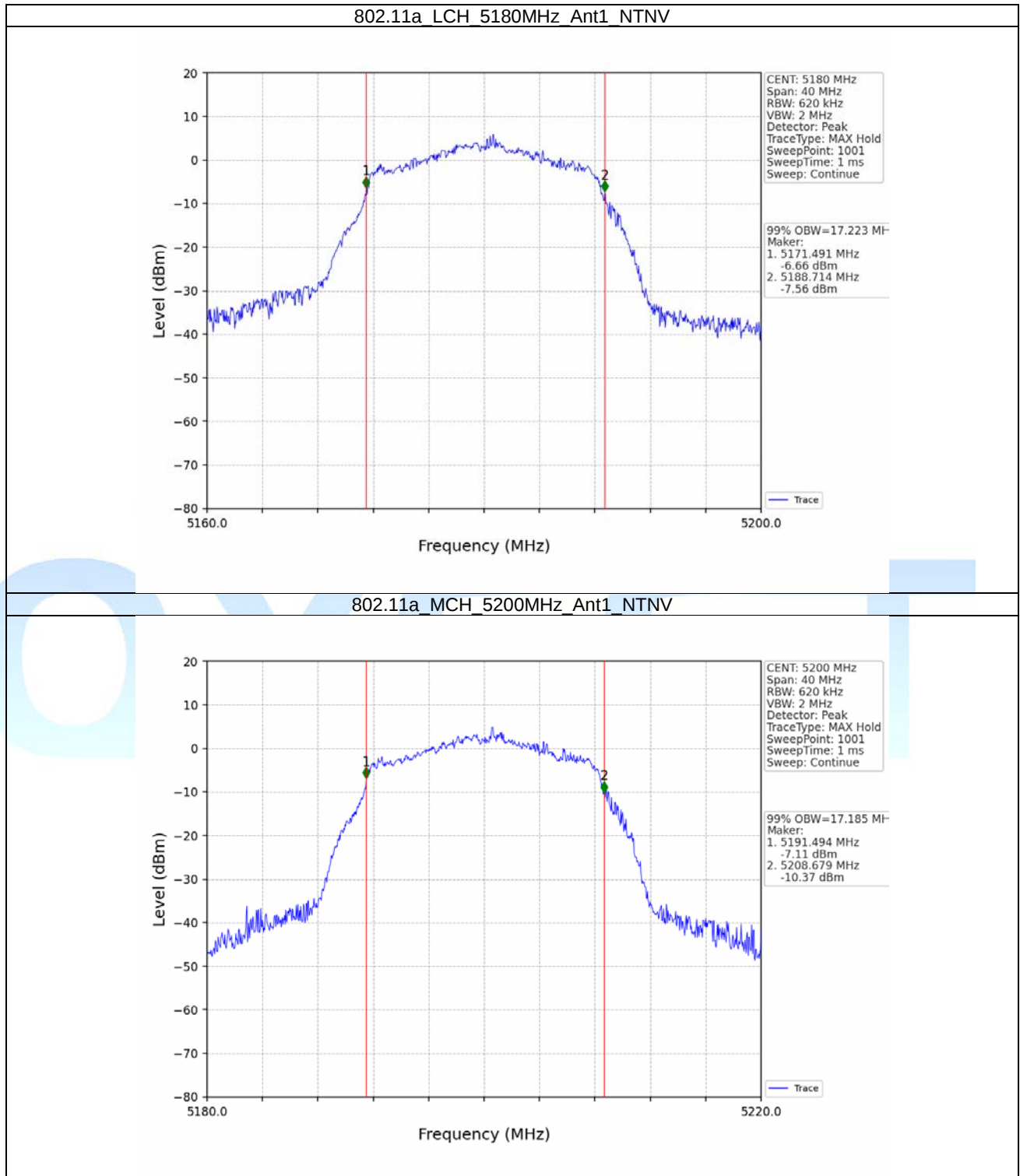


(HEW80)								
---------	--	--	--	--	--	--	--	--

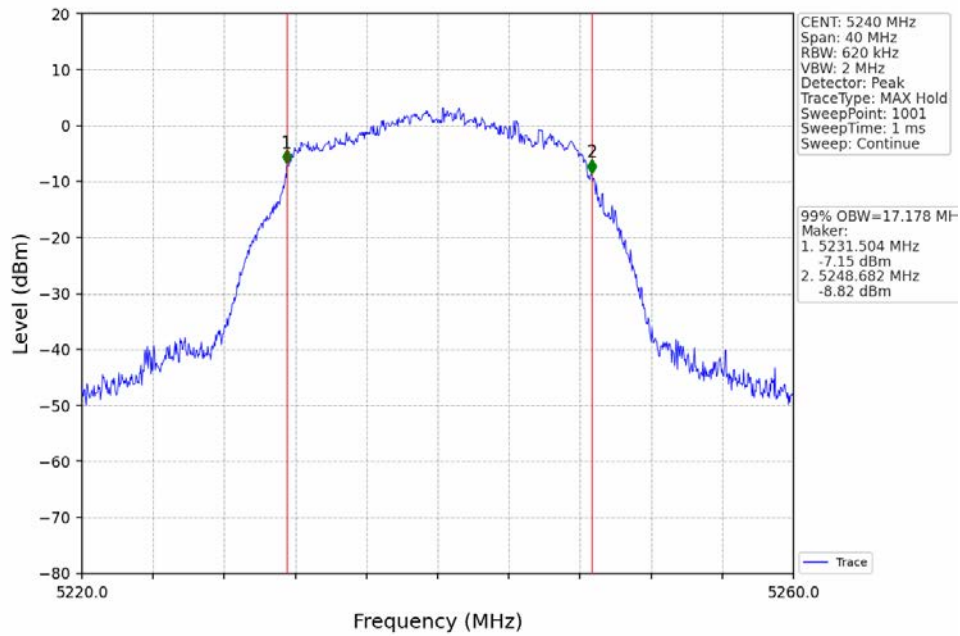


2.2 Test Graph

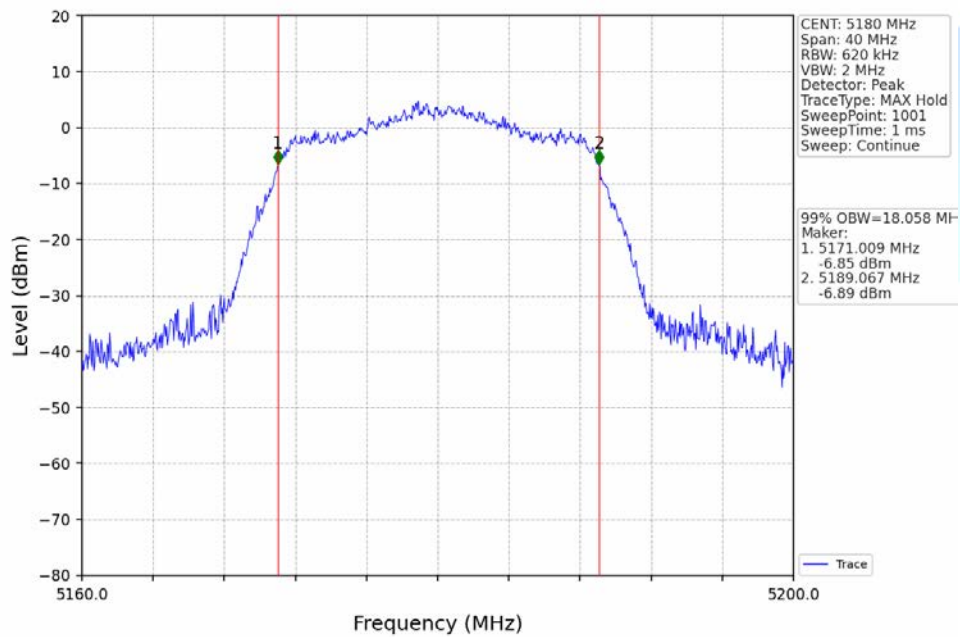
2.2.1 OBW



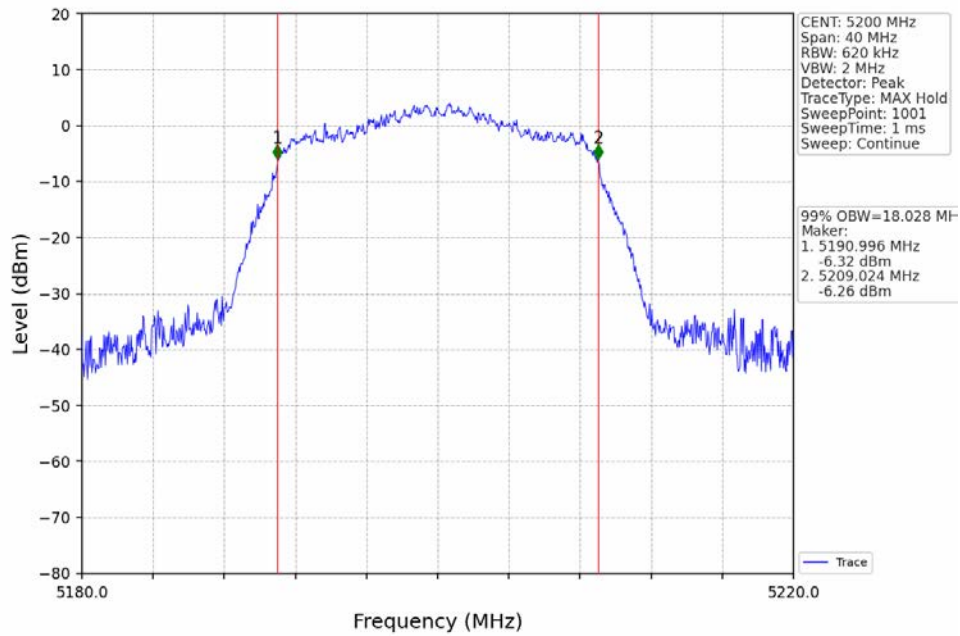
802.11a_HCH_5240MHz_Ant1_NTNV



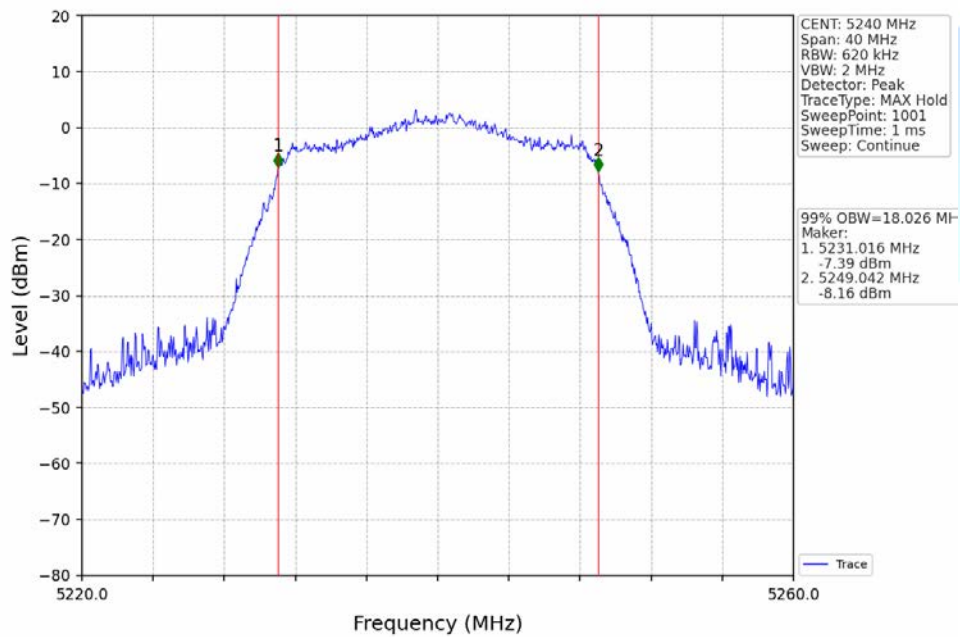
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



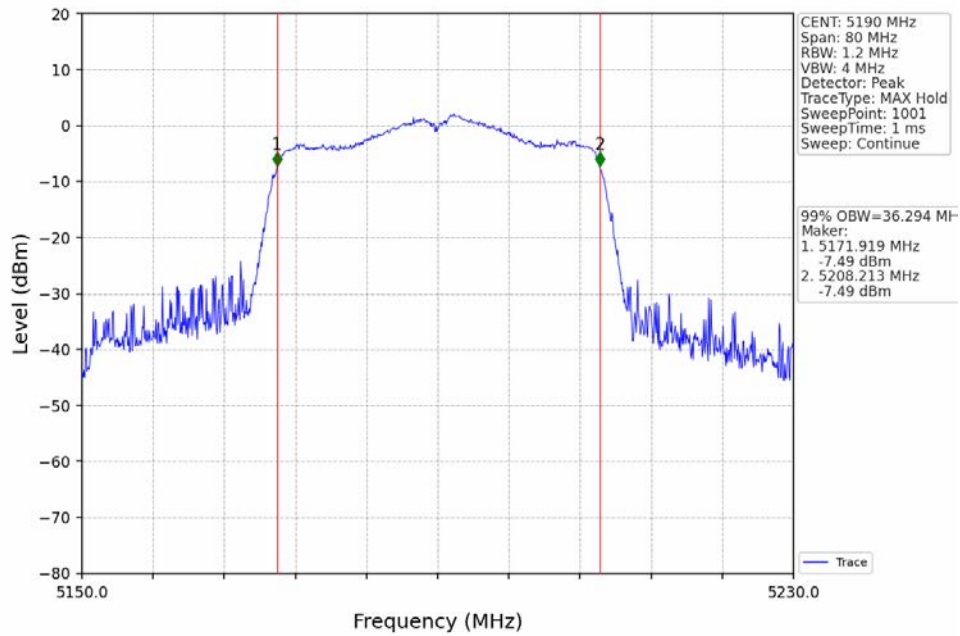
802.11n(HT20) MCH 5200MHz_Ant1_NTNV



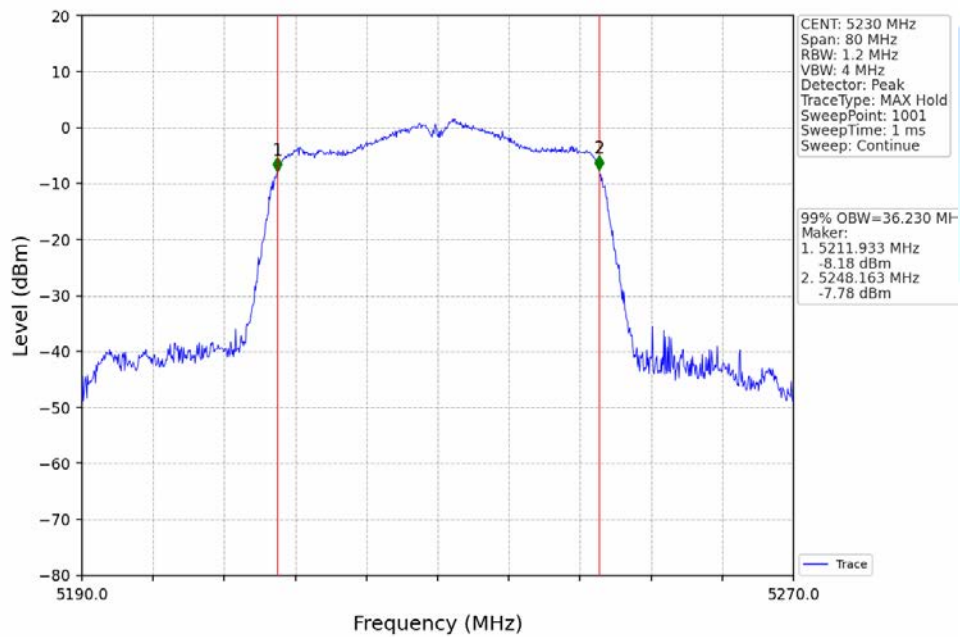
802.11n(HT20) HCH 5240MHz_Ant1_NTNV



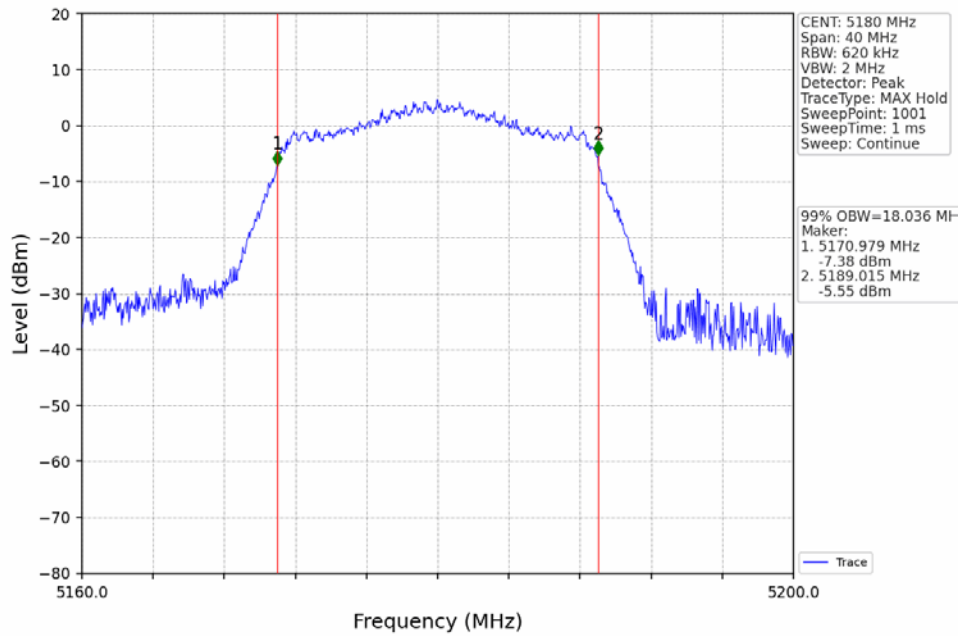
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



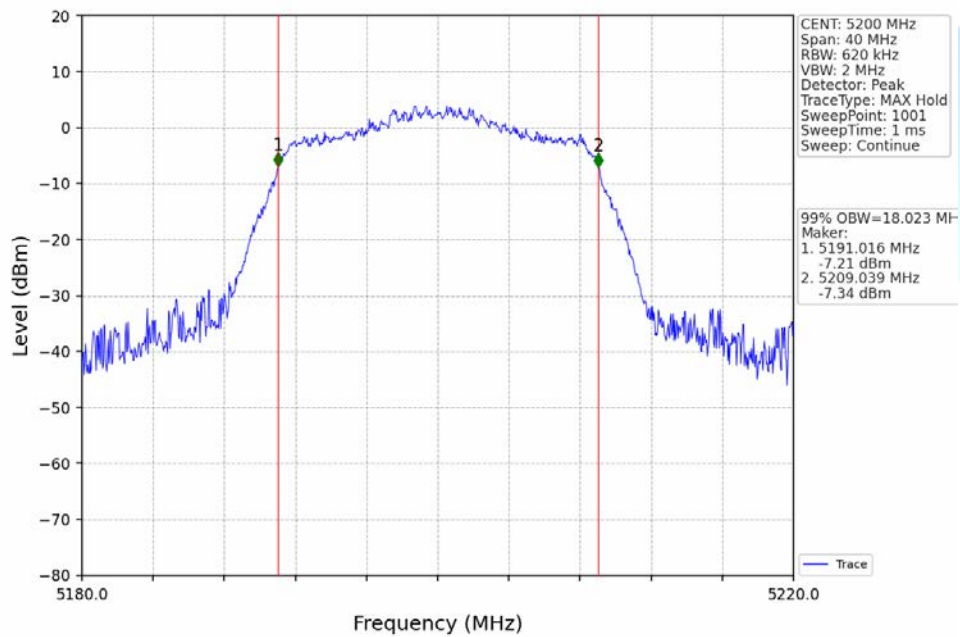
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



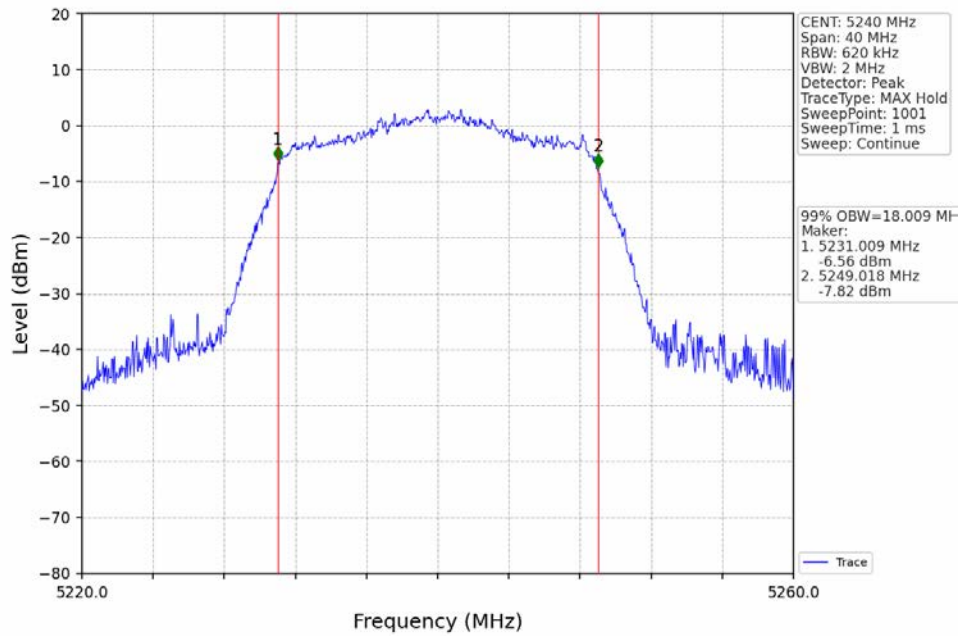
802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV



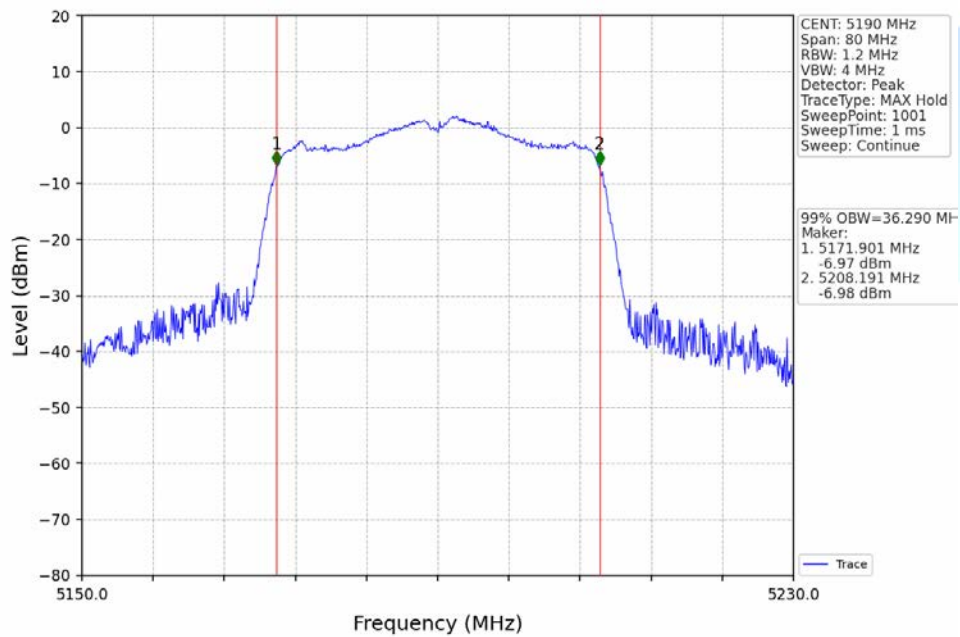
802.11ac(VHT20) MCH_5200MHz_Ant1_NTNV



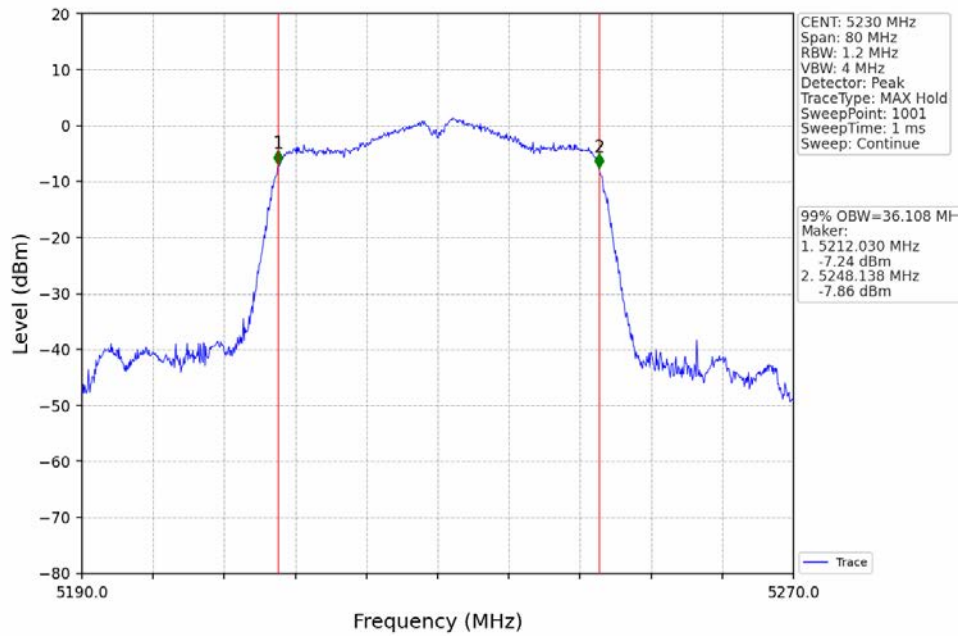
802.11ac(VHT20) HCH 5240MHz_Ant1_NTNV



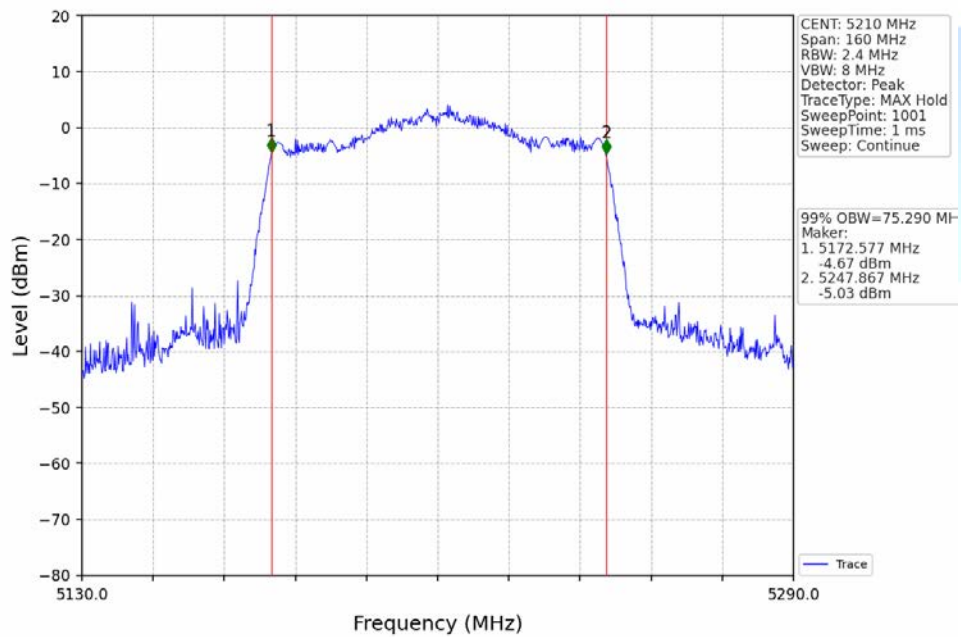
802.11ac(VHT40) LCH 5190MHz_Ant1_NTNV



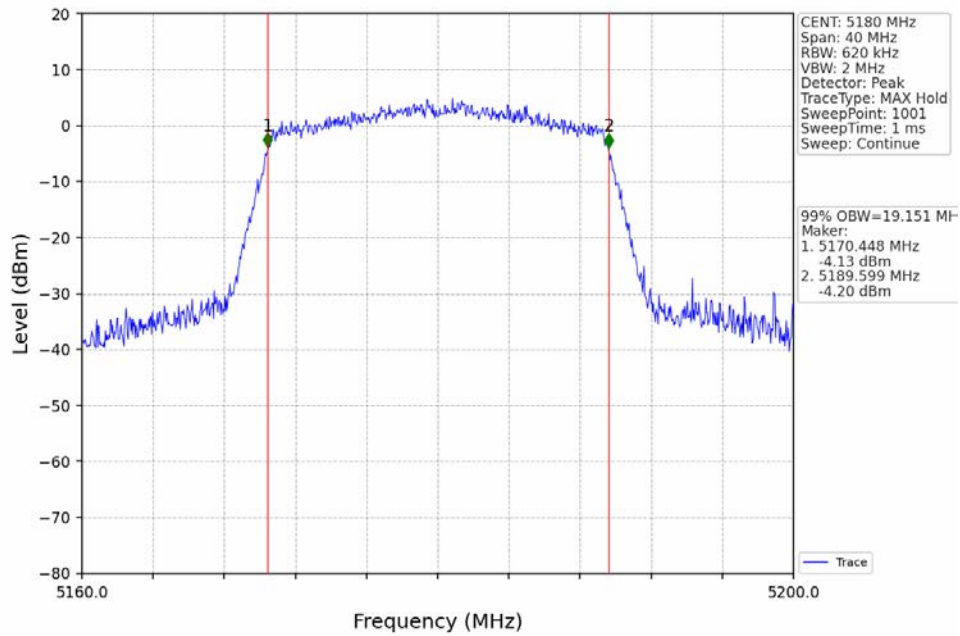
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



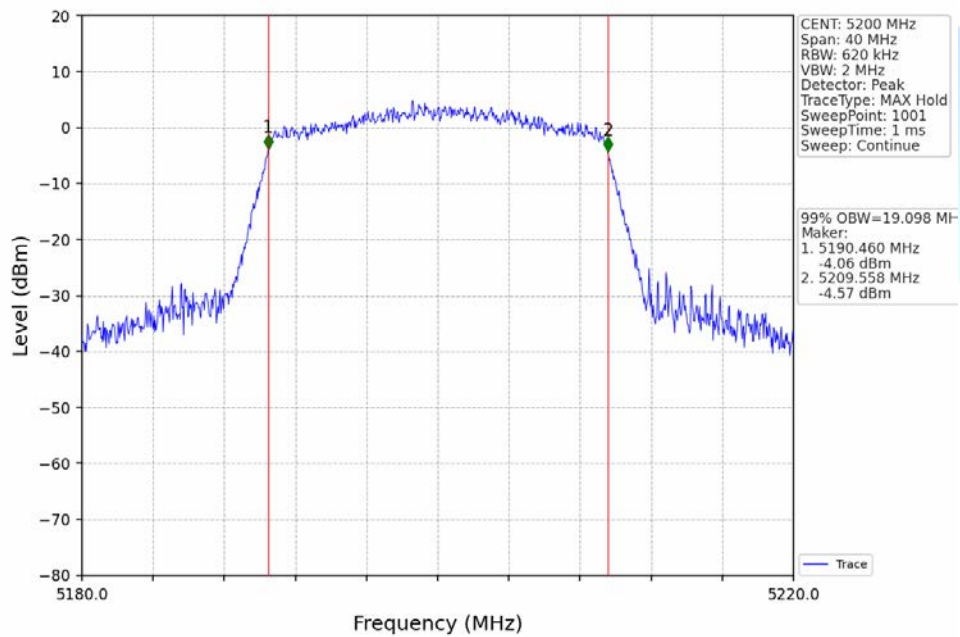
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



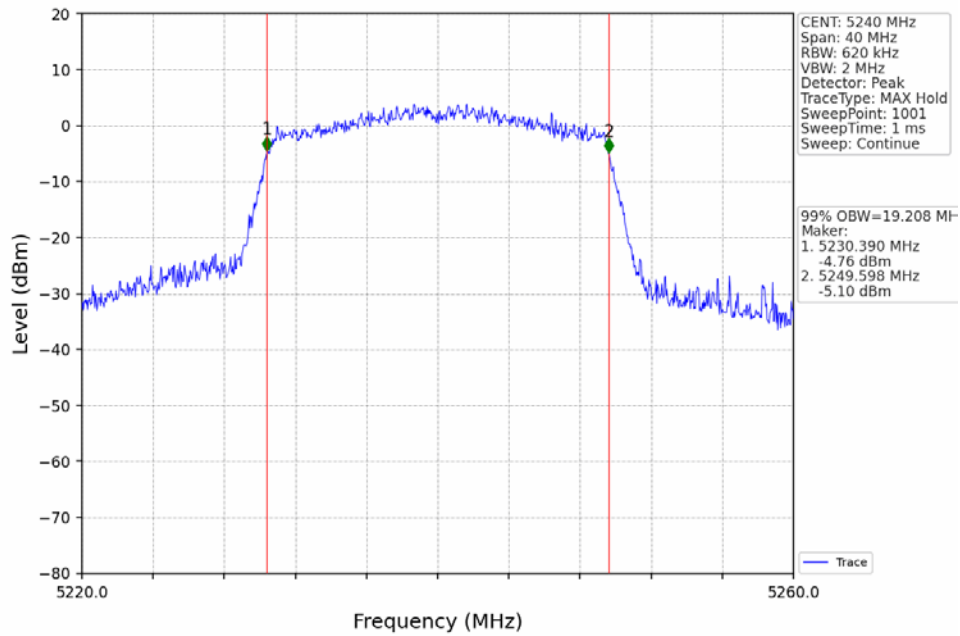
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



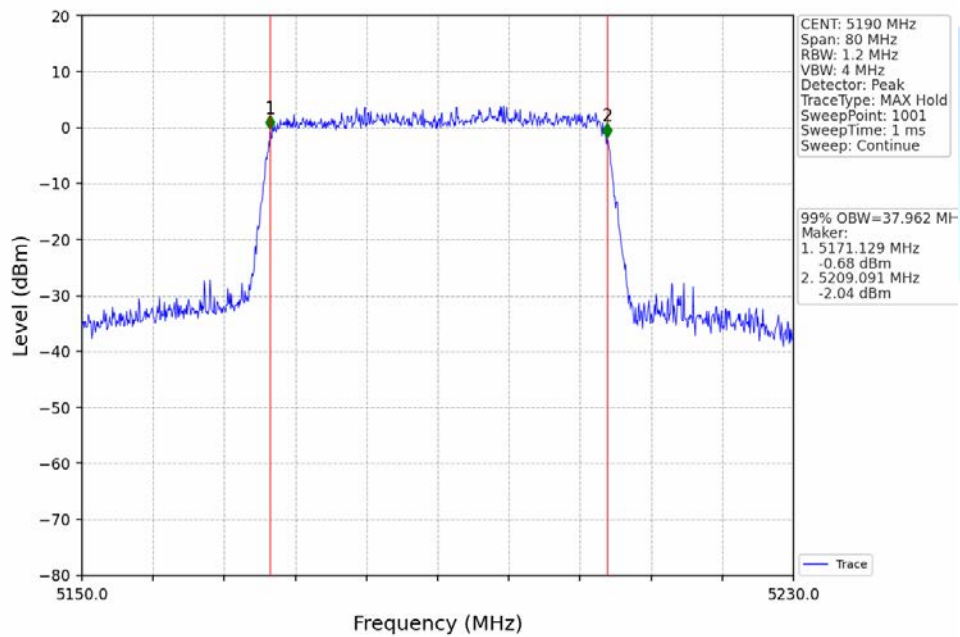
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



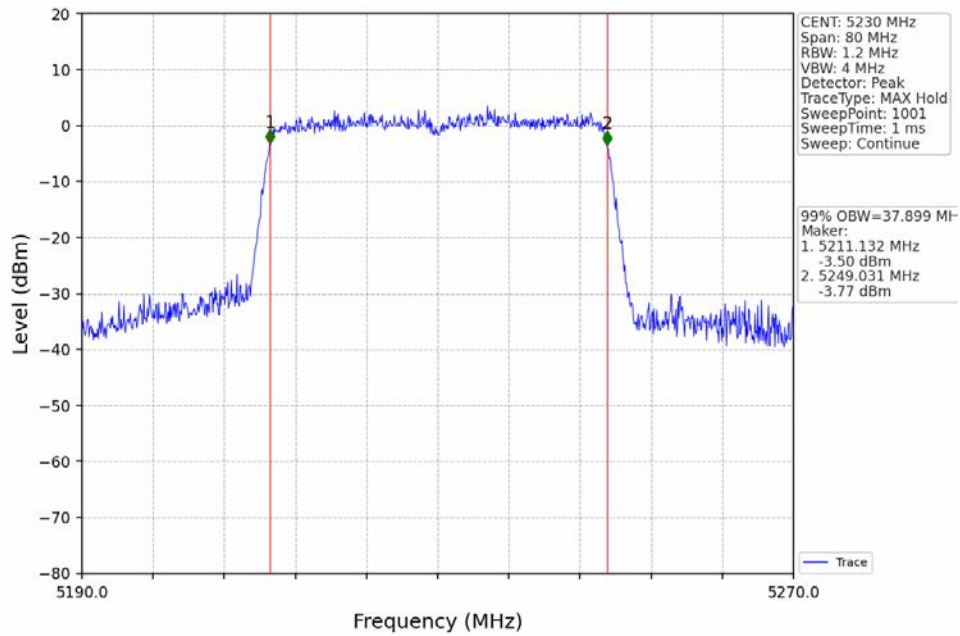
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



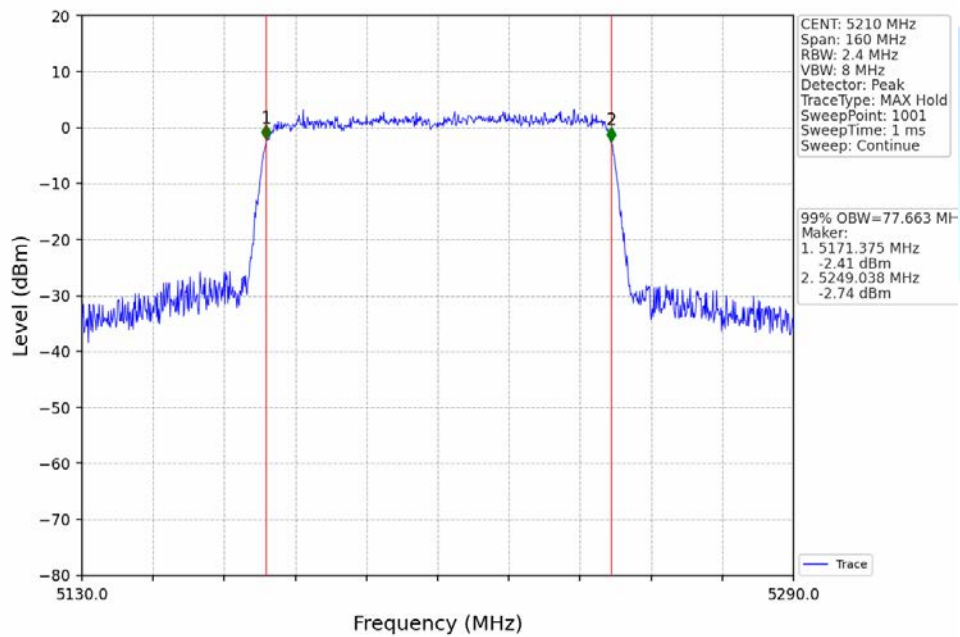
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



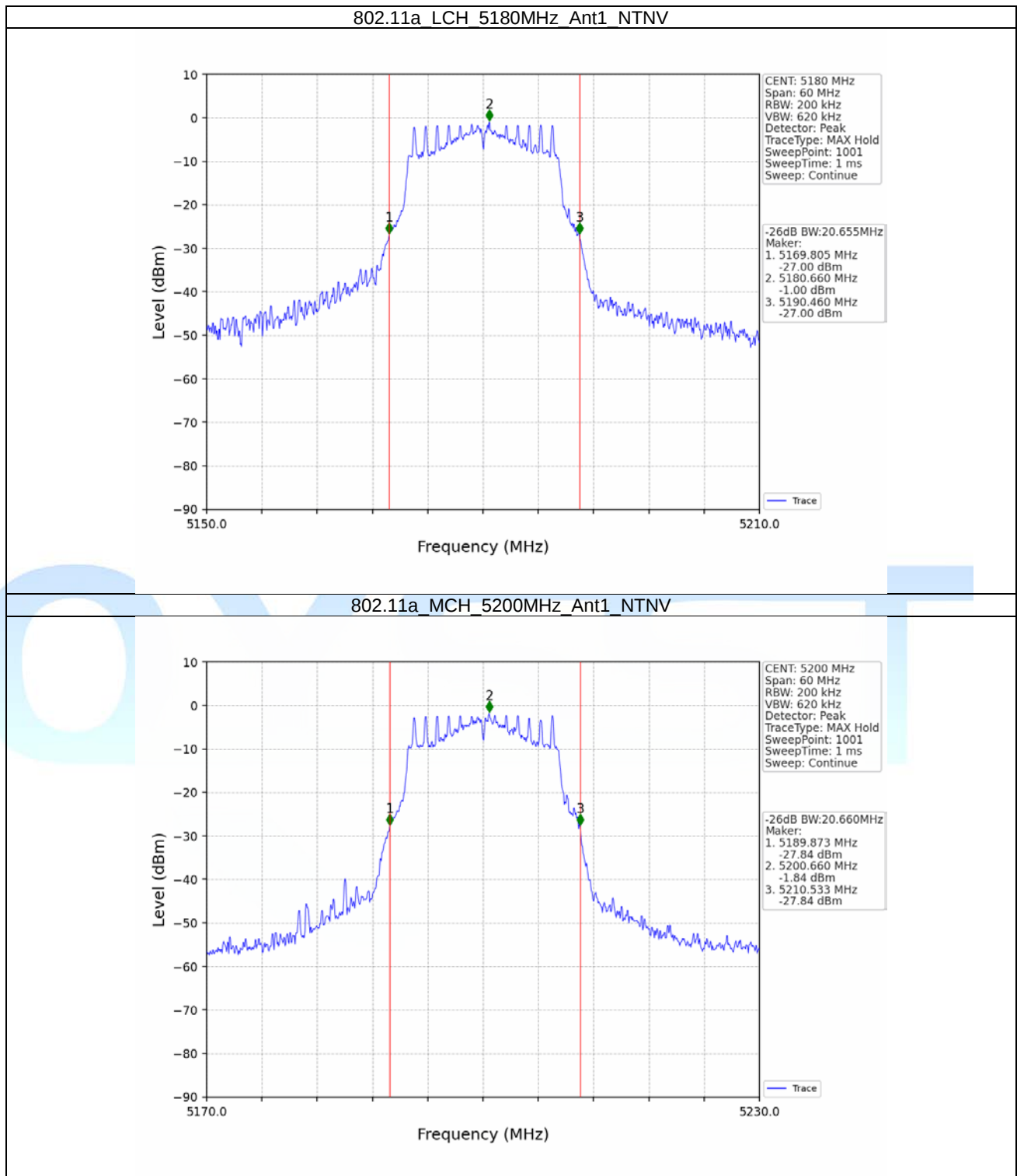
802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



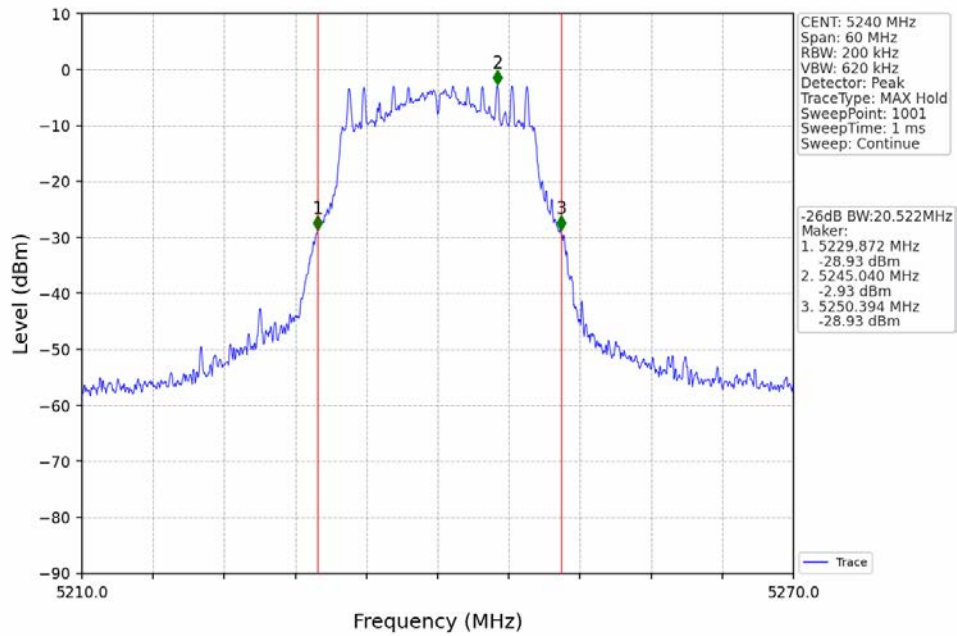
802.11ax(HEW80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



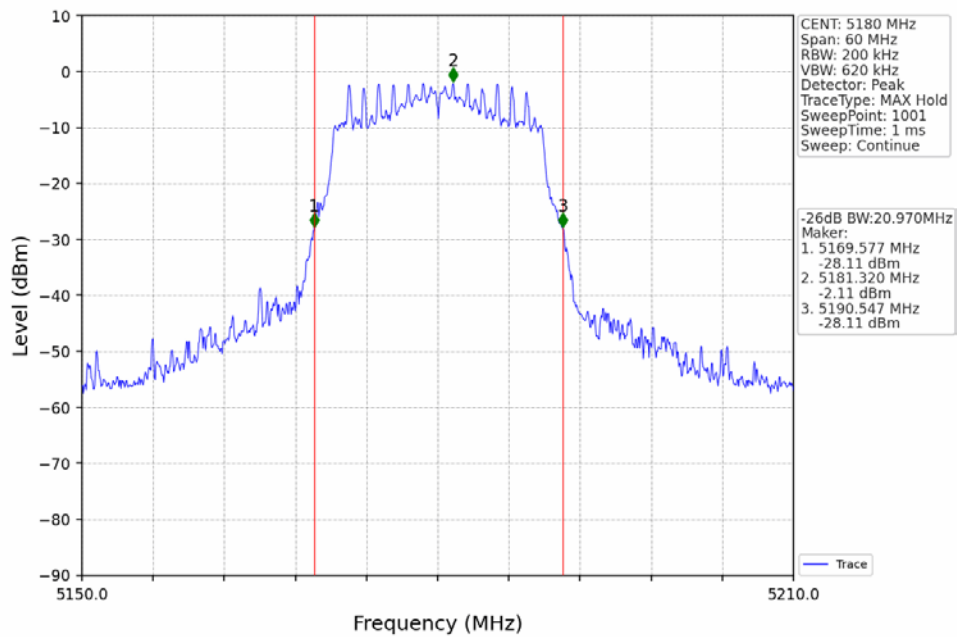
2.2.2 26dB BW



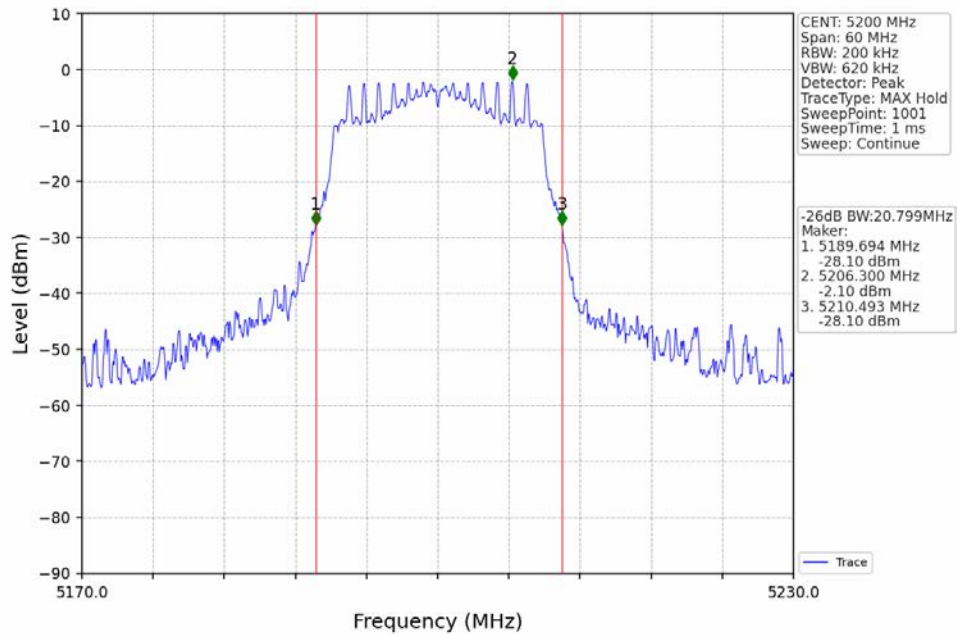
802.11a_HCH_5240MHz_Ant1_NTNV



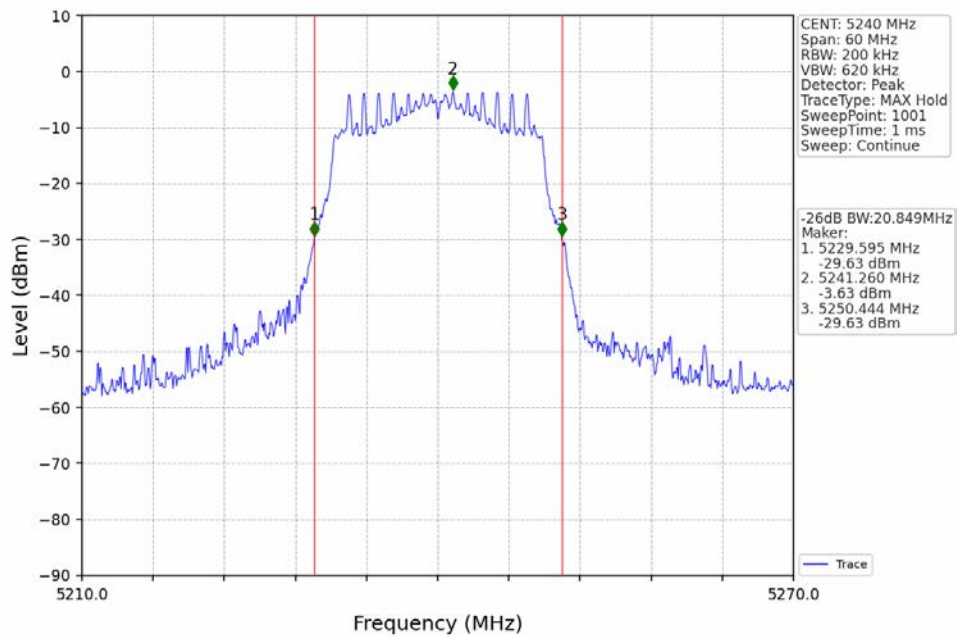
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



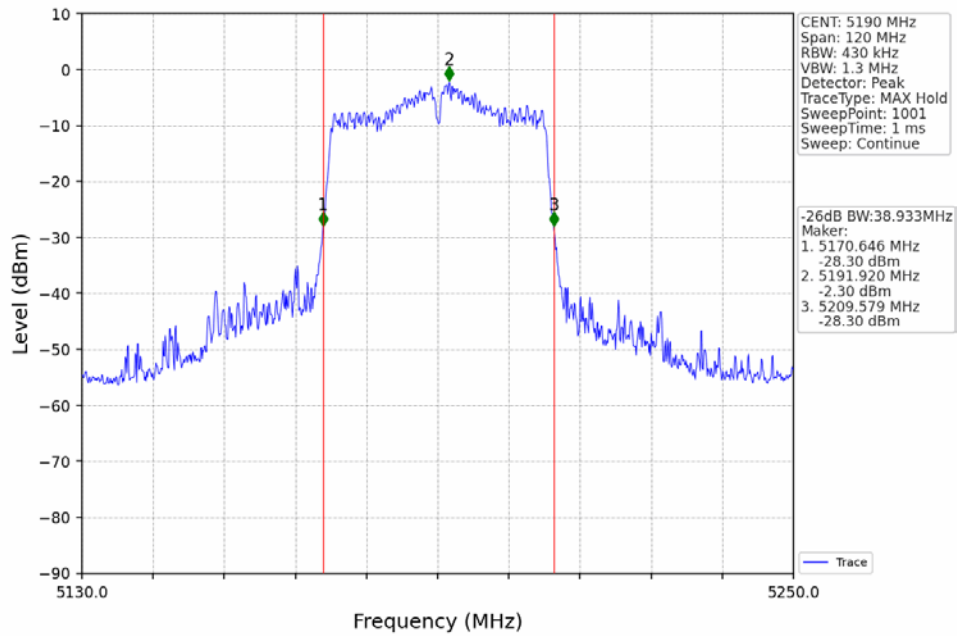
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



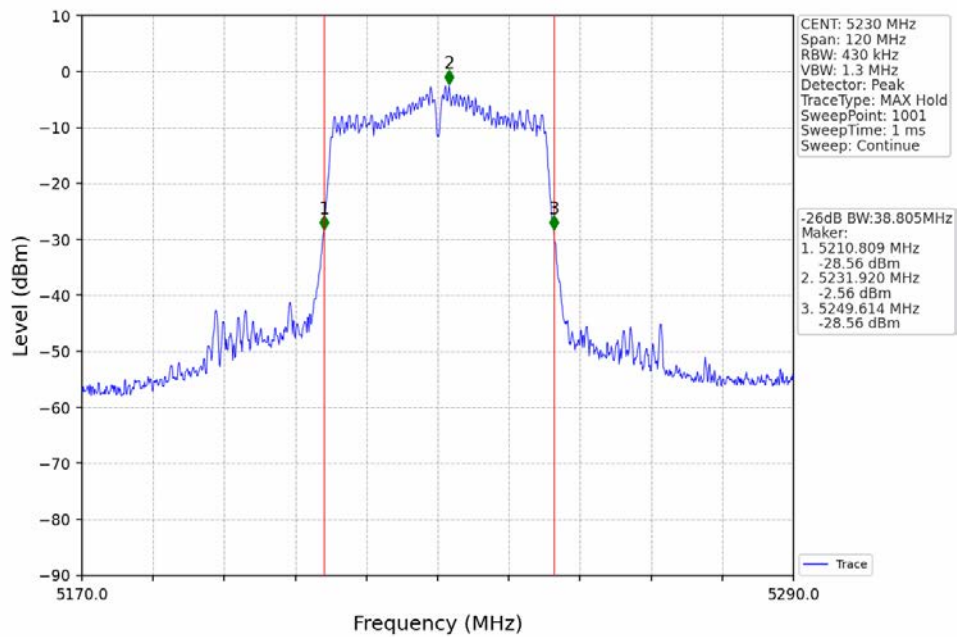
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



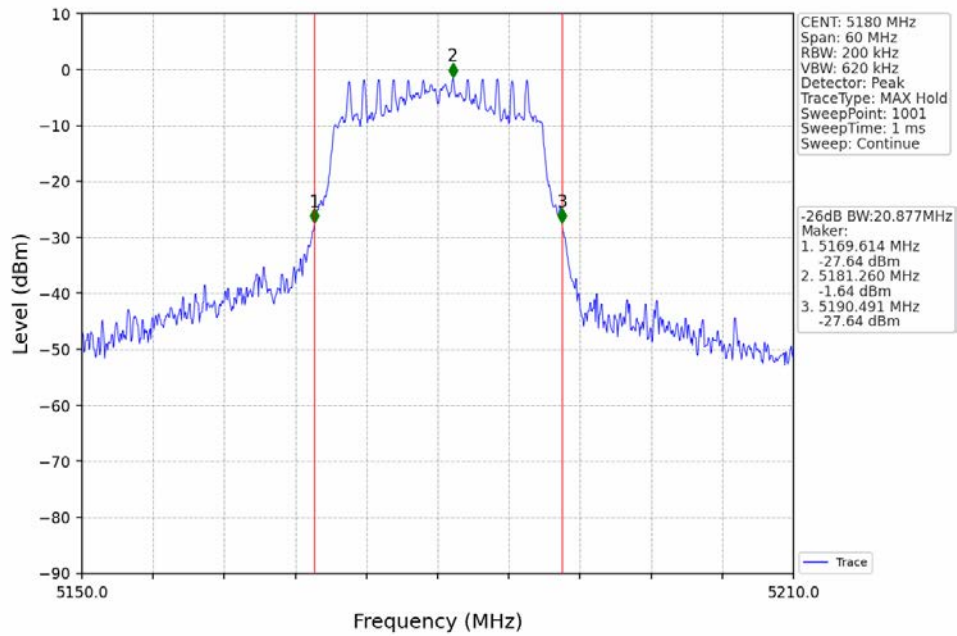
802.11n(HT40) LCH 5190MHz_Ant1_NTNV



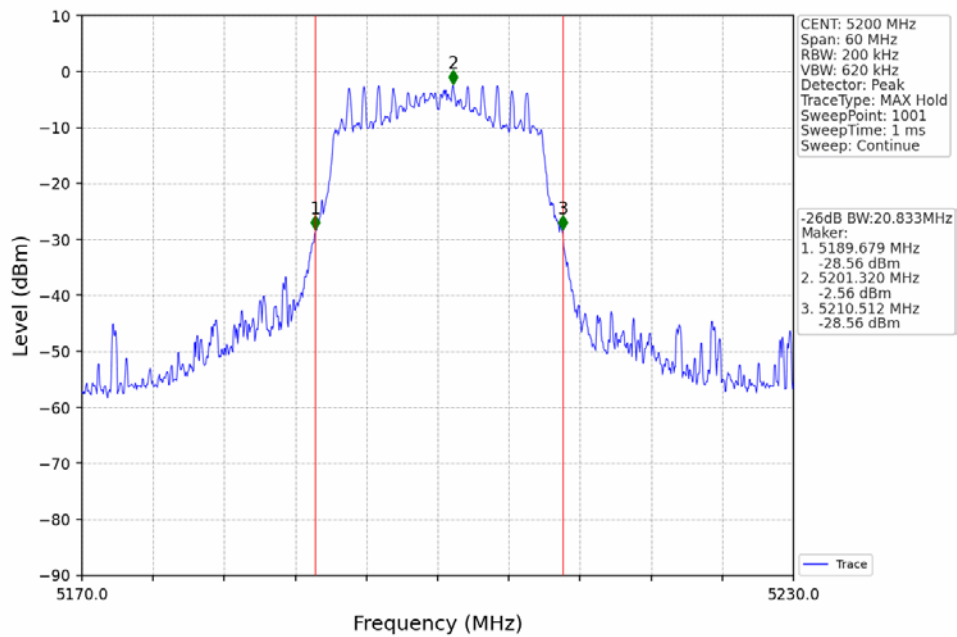
802.11n(HT40) HCH 5230MHz_Ant1_NTNV



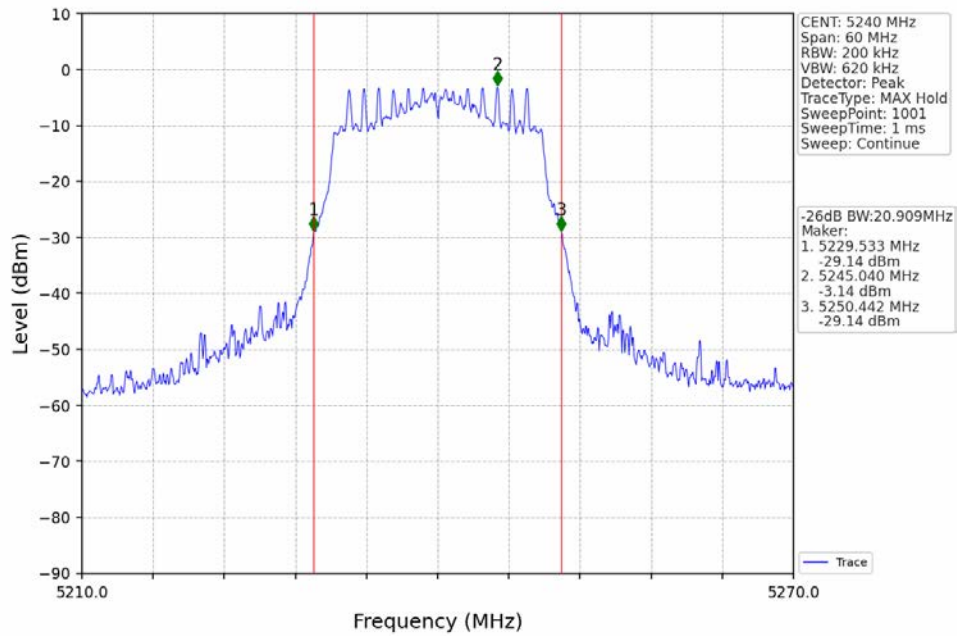
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



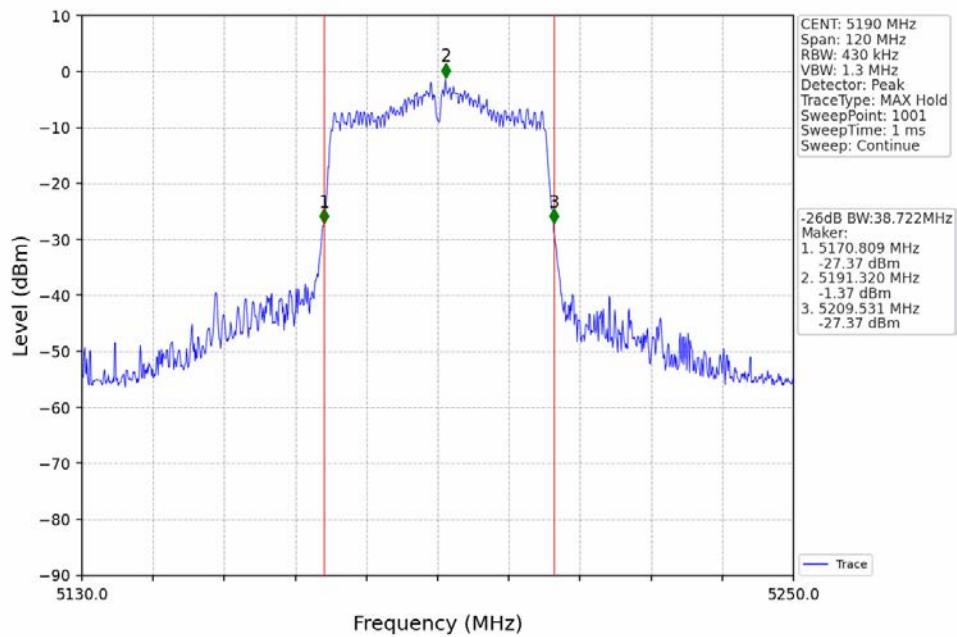
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



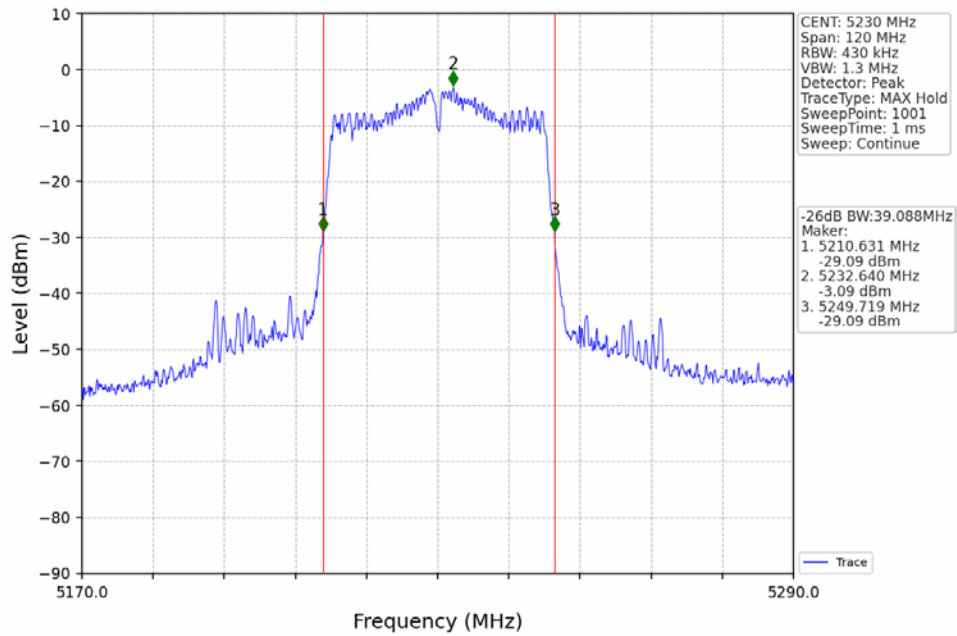
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



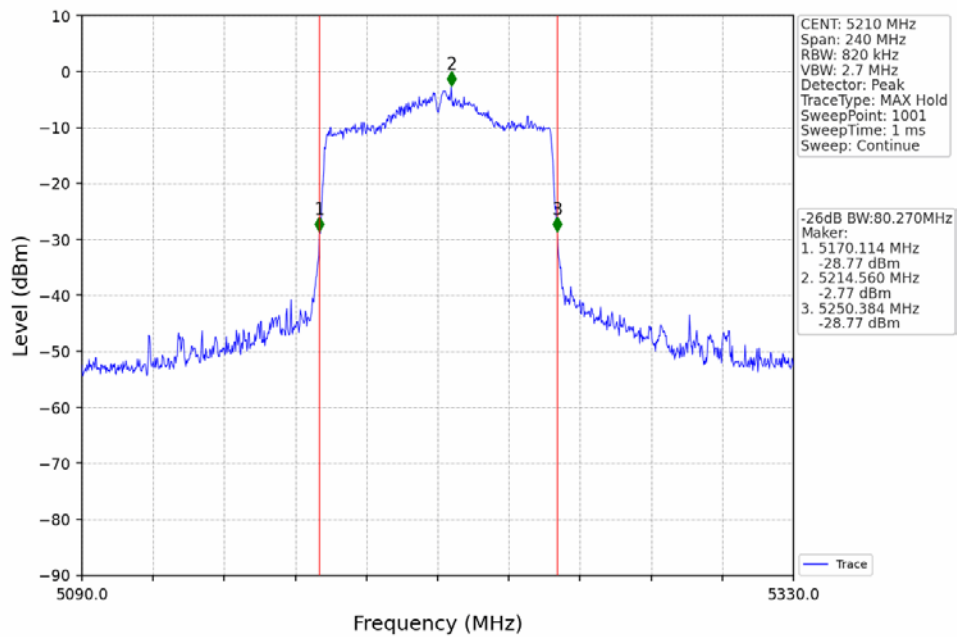
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



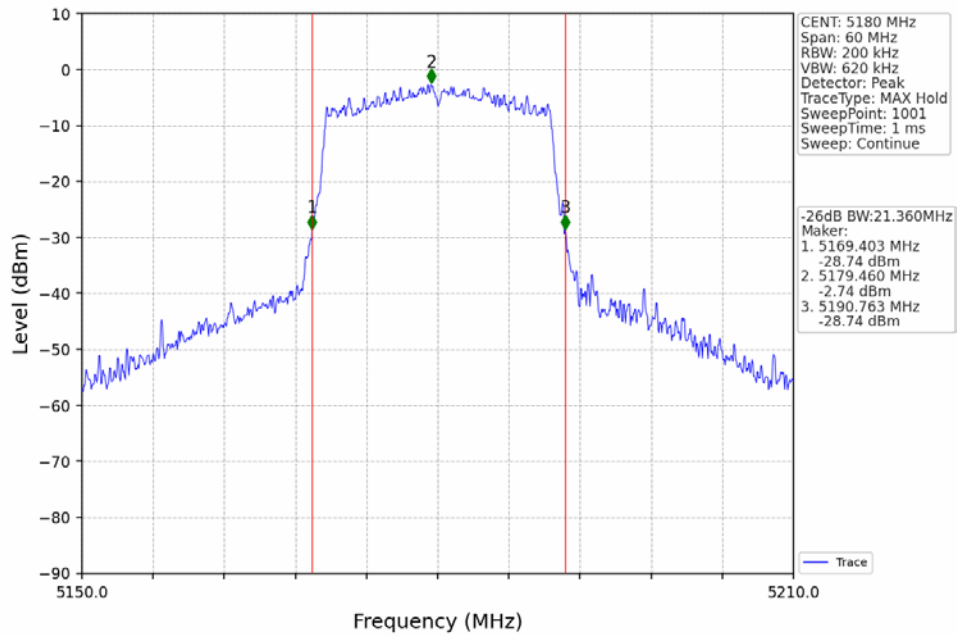
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



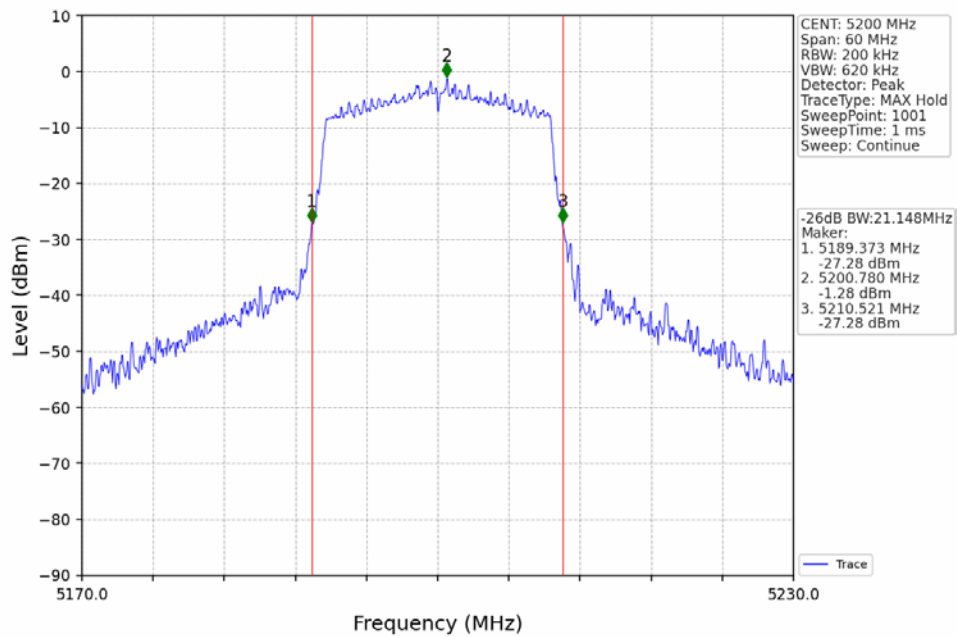
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



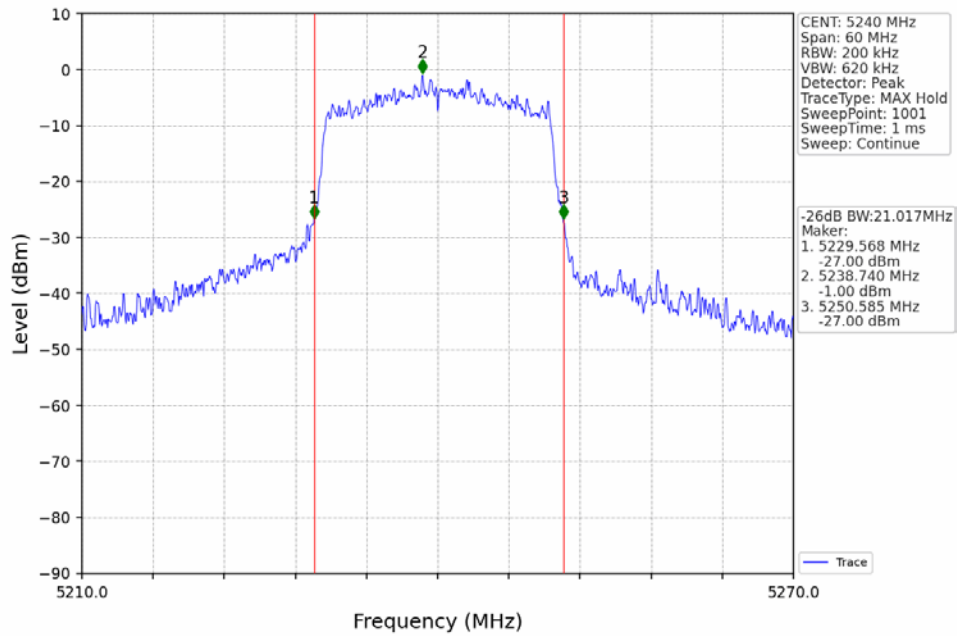
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



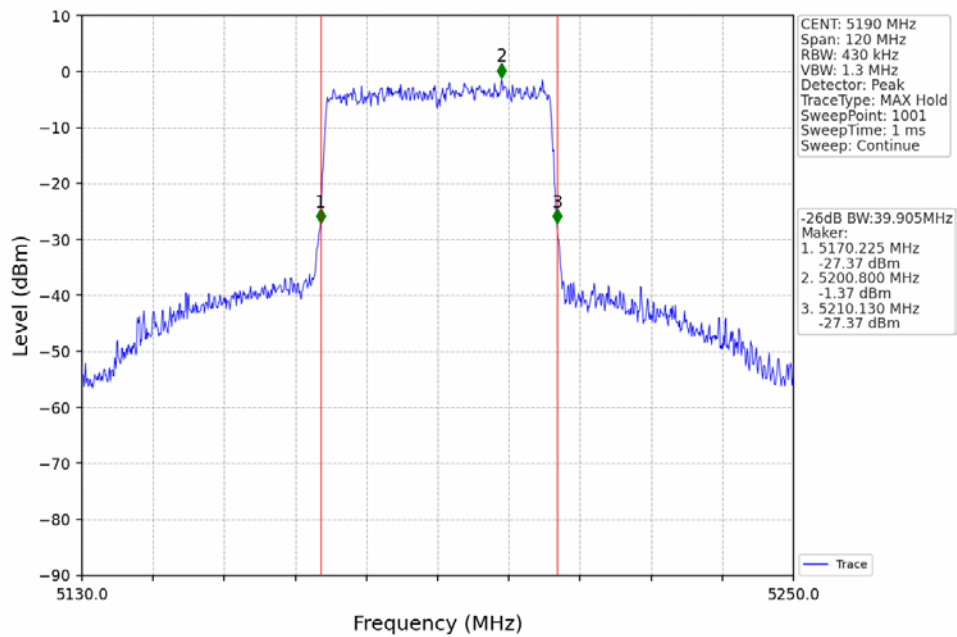
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



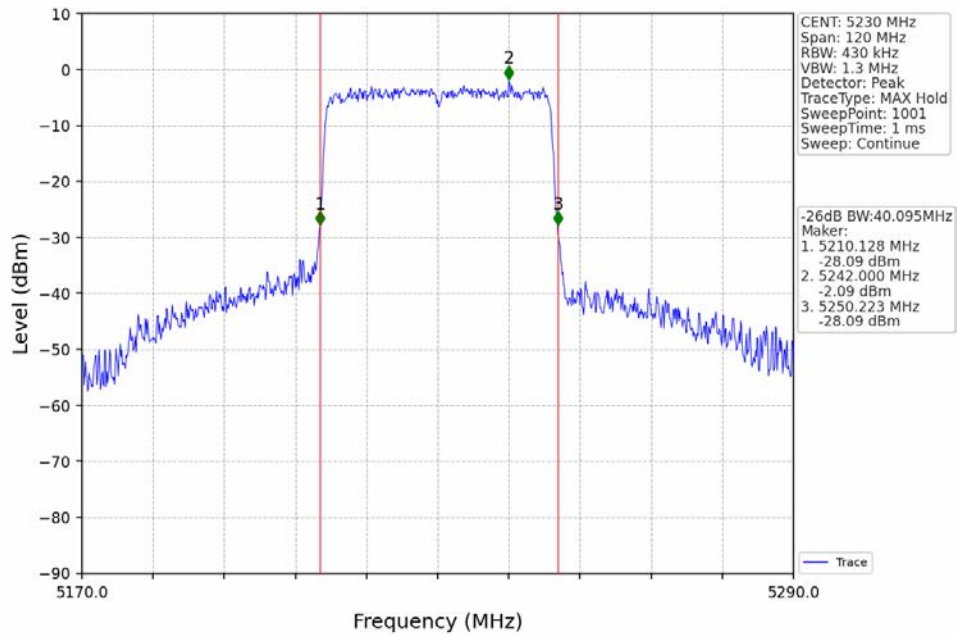
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



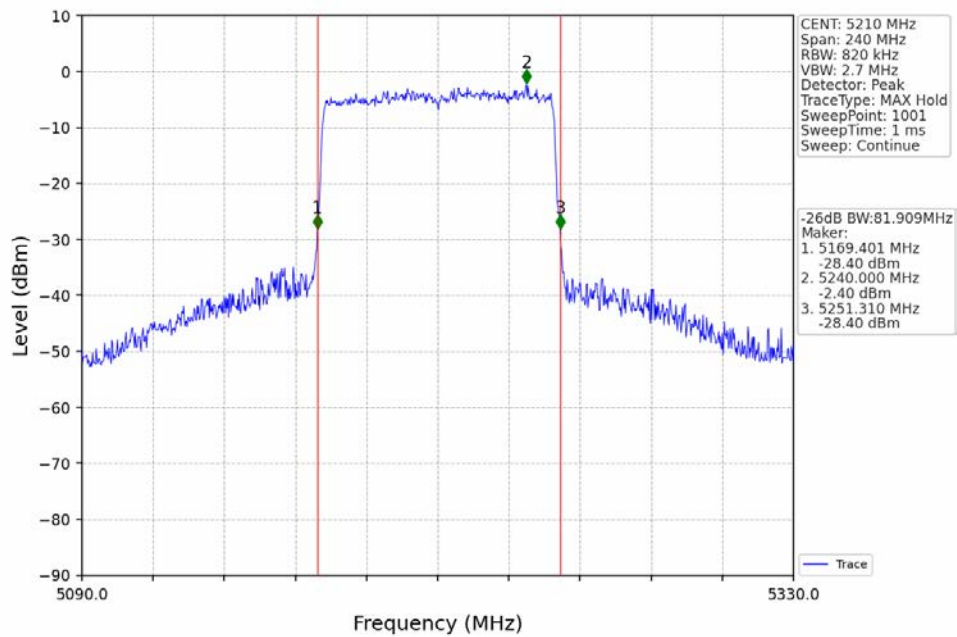
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5210MHz_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	ANT2	MIMO	Limit	
802.11a	SISO	5180	/	/	6.34	4.75	/	<=23.98	Pass
		5200	/	/	6.00	4.05	/	<=23.98	Pass
		5240	/	/	5.12	3.24	/	<=23.98	Pass
802.11n (HT20)	MIMO	5180	/	/	6.34	5.00	8.73	<=23.98	Pass
		5200	/	/	5.85	4.50	8.24	<=23.98	Pass
		5240	/	/	4.83	3.33	7.15	<=23.98	Pass
802.11n (HT40)	MIMO	5190	/	/	4.00	2.62	6.37	<=23.98	Pass
		5230	/	/	3.05	1.15	5.21	<=23.98	Pass
802.11ac (VHT20)	MIMO	5180	/	/	6.45	4.91	8.76	<=23.98	Pass
		5200	/	/	5.81	4.33	8.14	<=23.98	Pass
		5240	/	/	4.61	2.80	6.81	<=23.98	Pass
802.11ac (VHT40)	MIMO	5190	/	/	4.06	2.66	6.43	<=23.98	Pass
		5230	/	/	3.39	1.53	5.57	<=23.98	Pass
802.11ac (VHT80)	MIMO	5210	/	/	3.80	1.87	5.95	<=23.98	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	6.43	5.37	8.94	<=23.98	Pass
		5200	RU242	Left	6.18	4.58	8.46	<=23.98	Pass
		5240	RU242	Left	5.60	3.76	7.79	<=23.98	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	6.11	4.02	8.20	<=23.98	Pass
		5230	RU484	Left	4.68	2.93	6.90	<=23.98	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	5.66	3.44	7.70	<=23.98	Pass
Note1: Antenna Gain: Ant1: 2.64dBi; Ant2: 2.45dBi; Note2: Directional Gain: 5.56dBi									

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

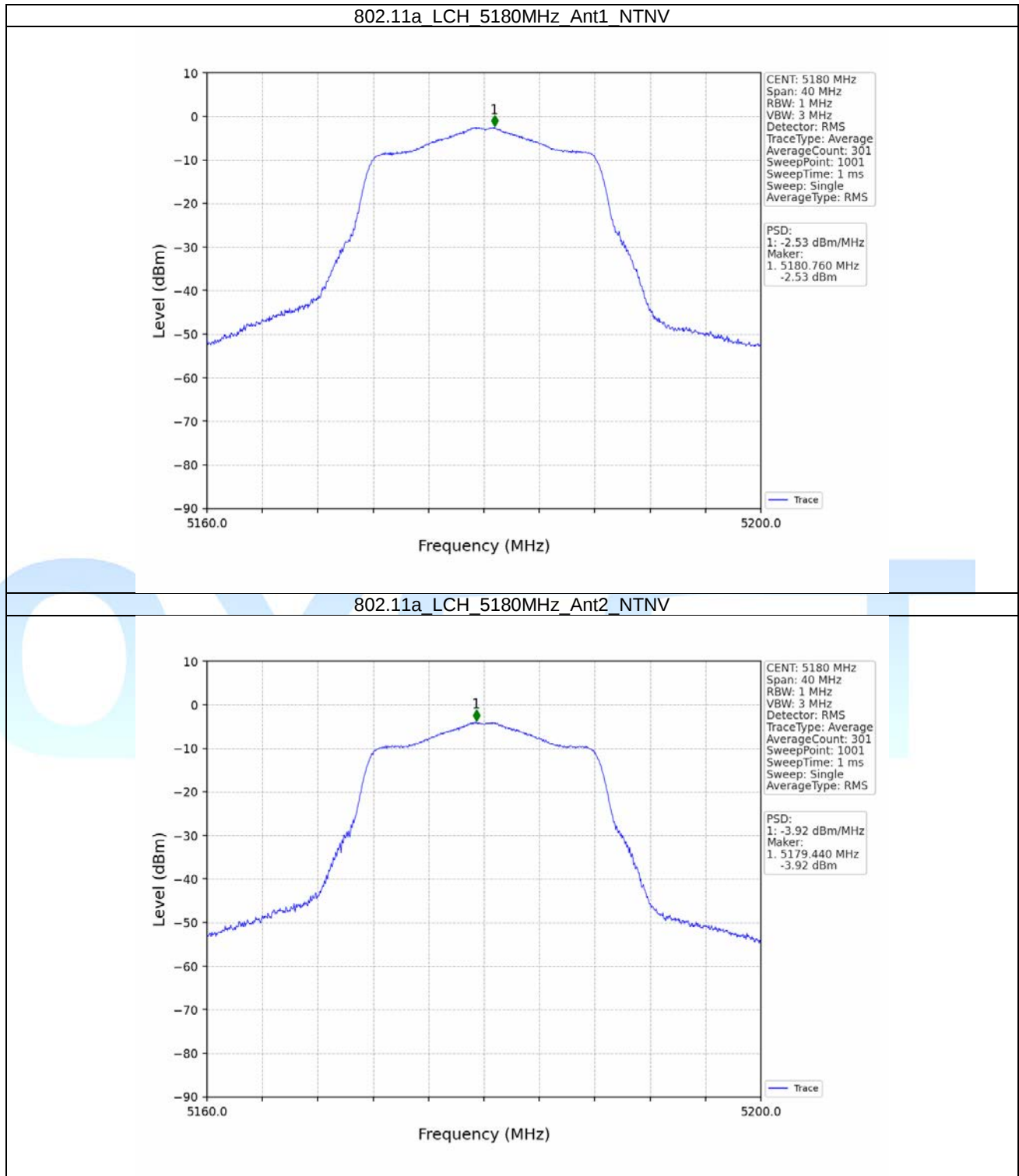
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	/	/	-2.53	-3.92	/	<=11	Pass
		5200	/	/	-2.68	-4.68	/	<=11	Pass
		5240	/	/	-3.64	-5.60	/	<=11	Pass
802.11n (HT20)	MIMO	5180	/	/	-2.50	-3.95	-0.20	<=11	Pass
		5200	/	/	-3.05	-4.38	-0.74	<=11	Pass
		5240	/	/	-3.78	-5.40	-1.63	<=11	Pass
802.11n (HT40)	MIMO	5190	/	/	-7.31	-8.92	-5.03	<=11	Pass
		5230	/	/	-8.55	-10.41	-6.41	<=11	Pass
802.11ac (VHT20)	MIMO	5180	/	/	-2.58	-4.07	-0.32	<=11	Pass
		5200	/	/	-3.04	-4.58	-0.78	<=11	Pass
		5240	/	/	-4.46	-6.26	-2.40	<=11	Pass
802.11ac (VHT40)	MIMO	5190	/	/	-7.31	-8.65	-5.03	<=11	Pass
		5230	/	/	-7.96	-9.75	-5.88	<=11	Pass
802.11ac	MIMO	5210	/	/	-10.19	-12.01	-8.02	<=11	Pass

(VHT80)									
802.11ax (HEW20)	MIMO	5180	RU242	Left	-3.89	-5.07	-1.54	<=11	Pass
		5200	RU242	Left	-4.11	-5.89	-1.92	<=11	Pass
		5240	RU242	Left	-4.78	-6.58	-2.62	<=11	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	-8.65	-10.78	-6.72	<=11	Pass
		5230	RU484	Left	-10.04	-11.77	-7.85	<=11	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	-11.86	-14.13	-9.96	<=11	Pass
Note1: Antenna Gain: Ant1: 2.64dBi; Ant2: 2.45dBi; Note2: Directional Gain: 5.56dBi									

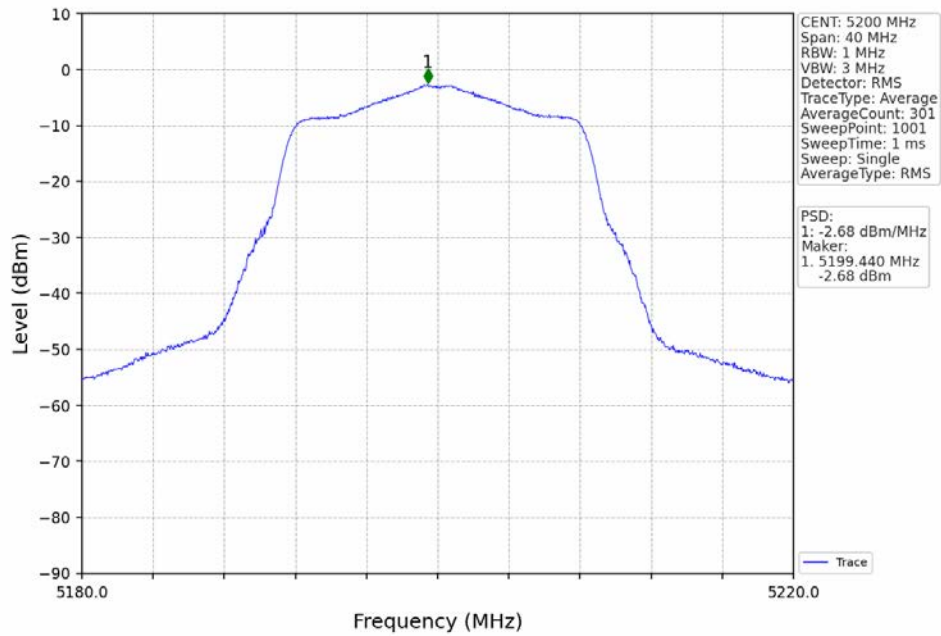


4.2 Test Graph

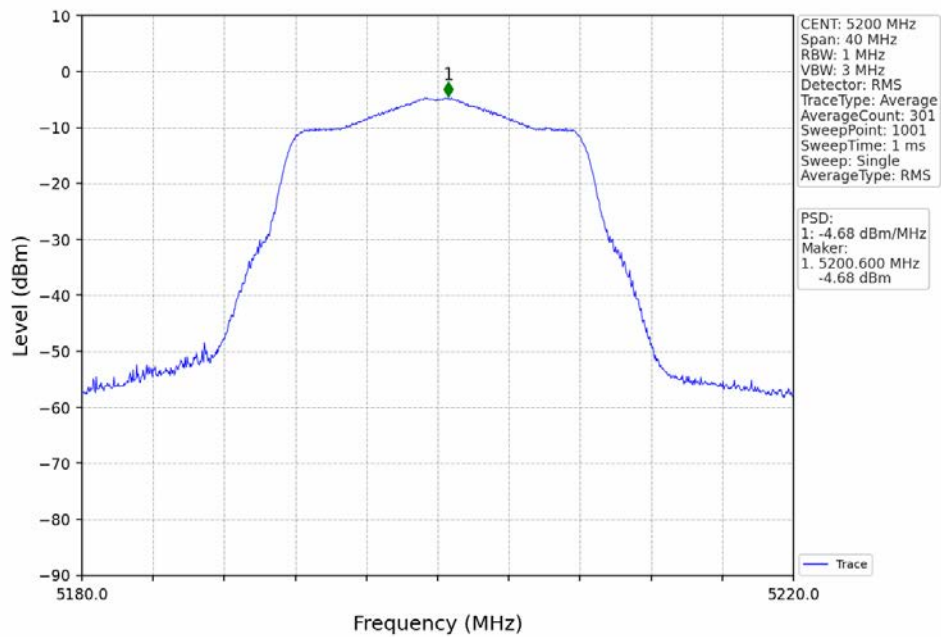
4.2.1 PSD



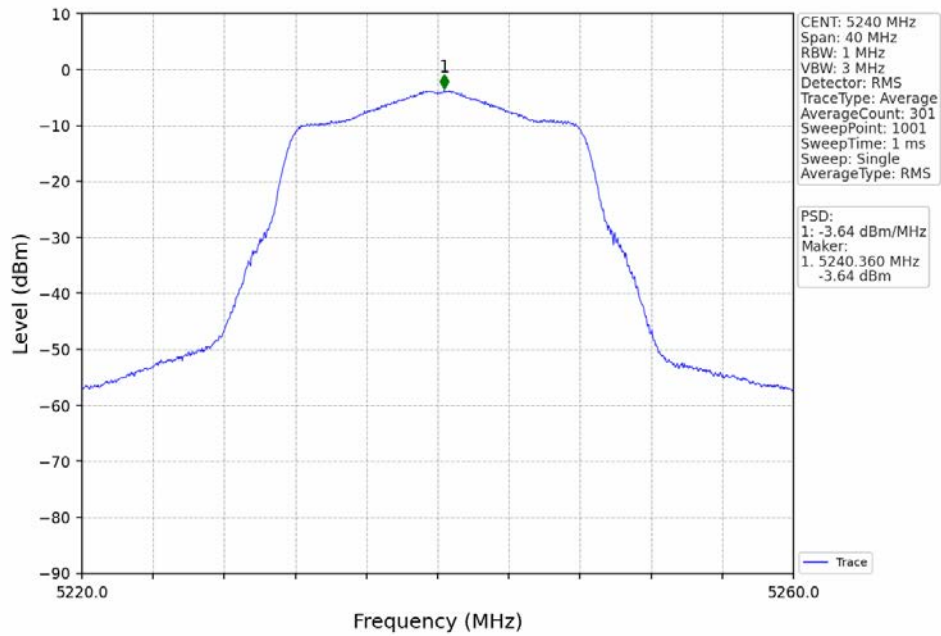
802.11a_MCH_5200MHz_Ant1_NTNV



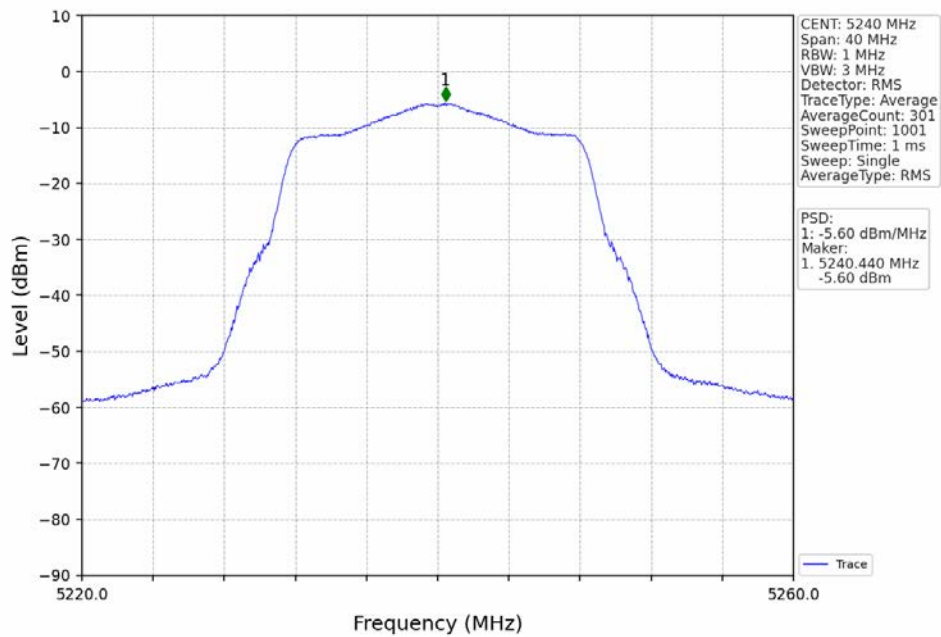
802.11a_MCH_5200MHz_Ant2_NTNV



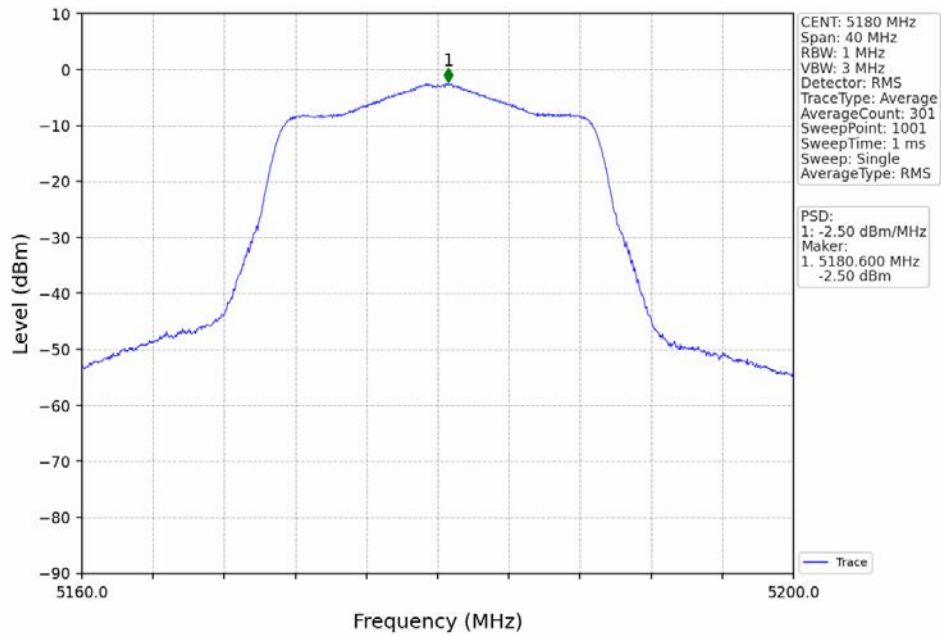
802.11a_HCH_5240MHz_Ant1_NTNV



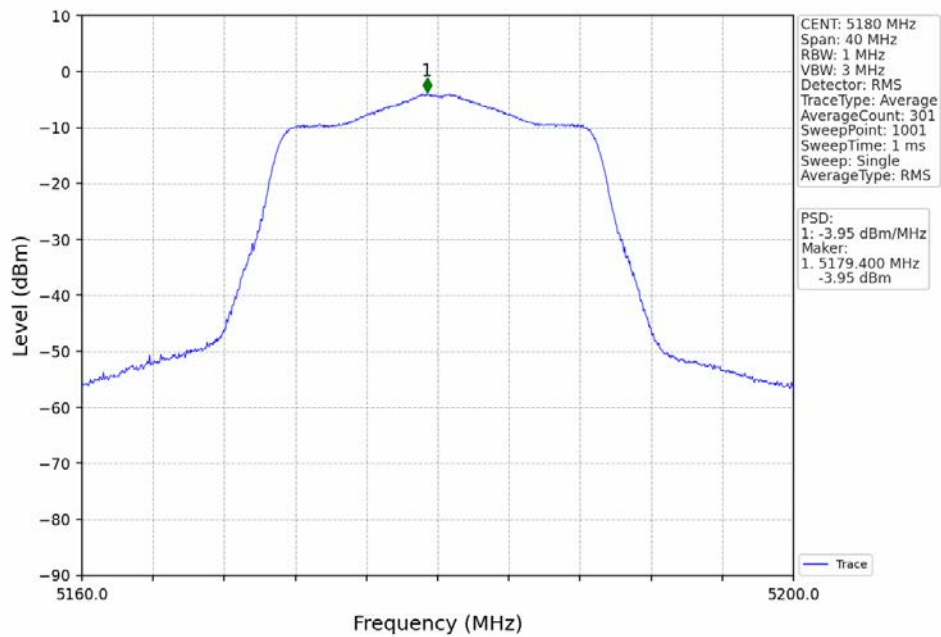
802.11a_HCH_5240MHz_Ant2_NTNV



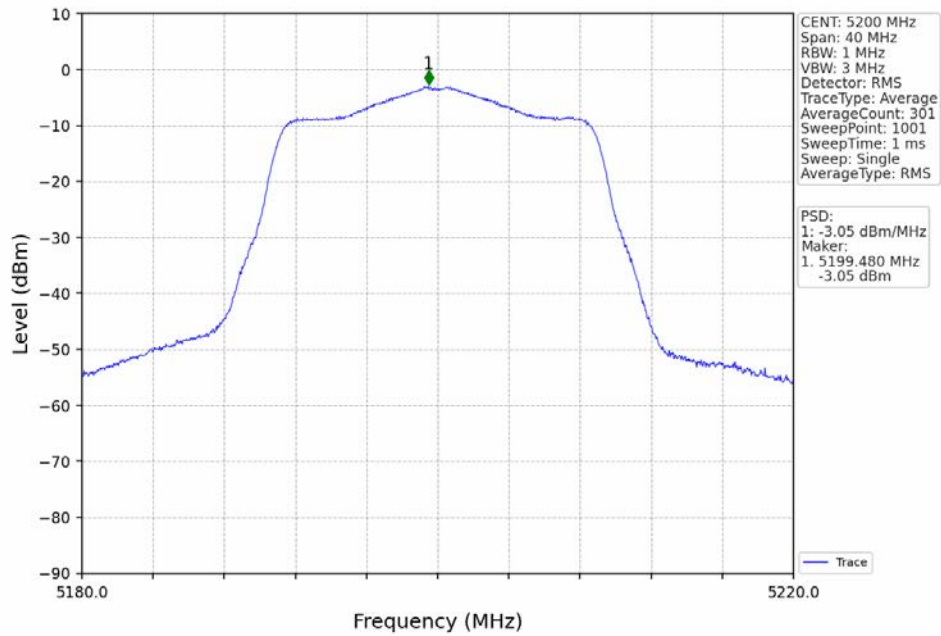
802.11n(HT20) LCH 5180MHz_Ant1_NTNV



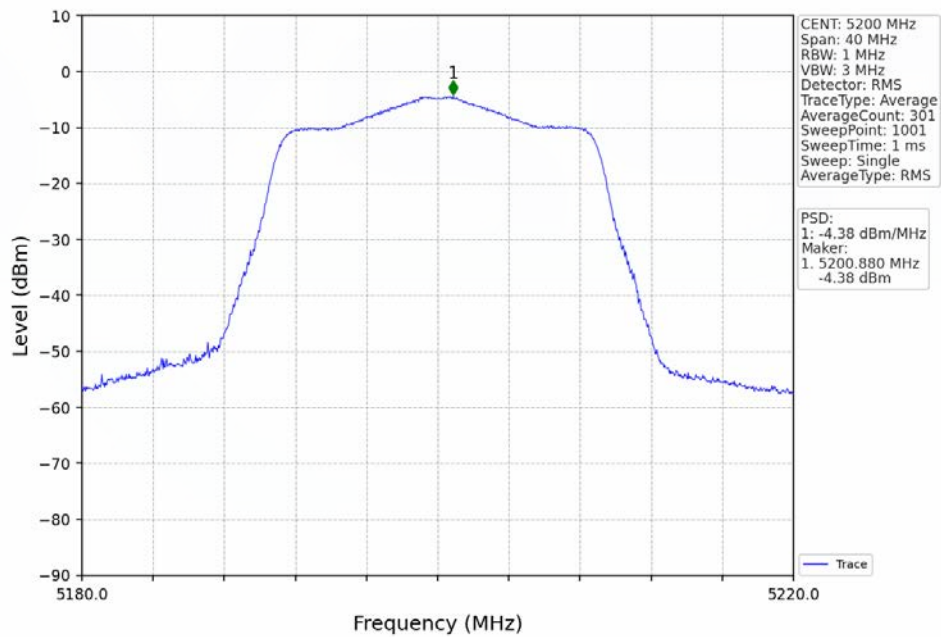
802.11n(HT20) LCH 5180MHz_Ant2_NTNV



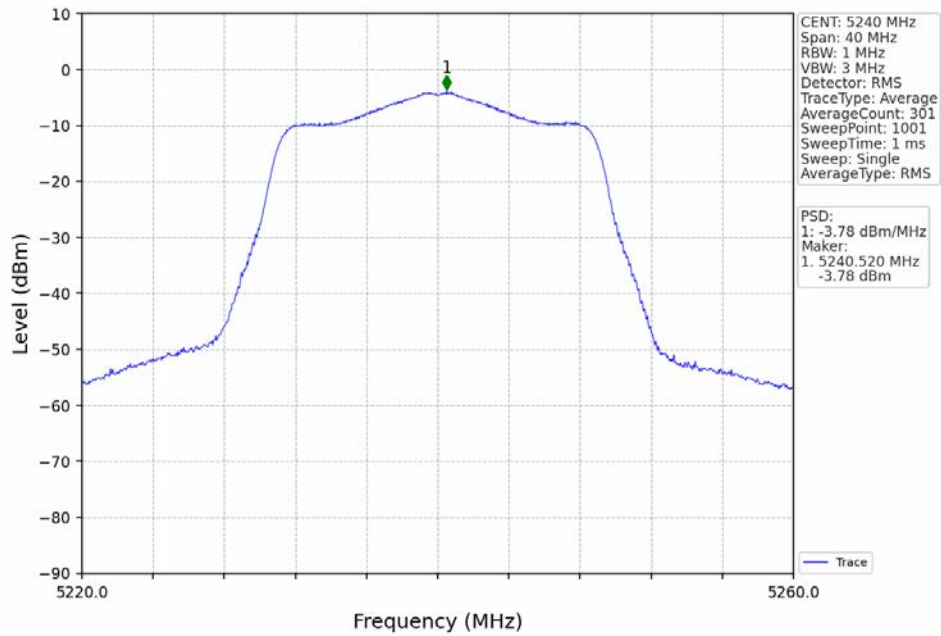
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



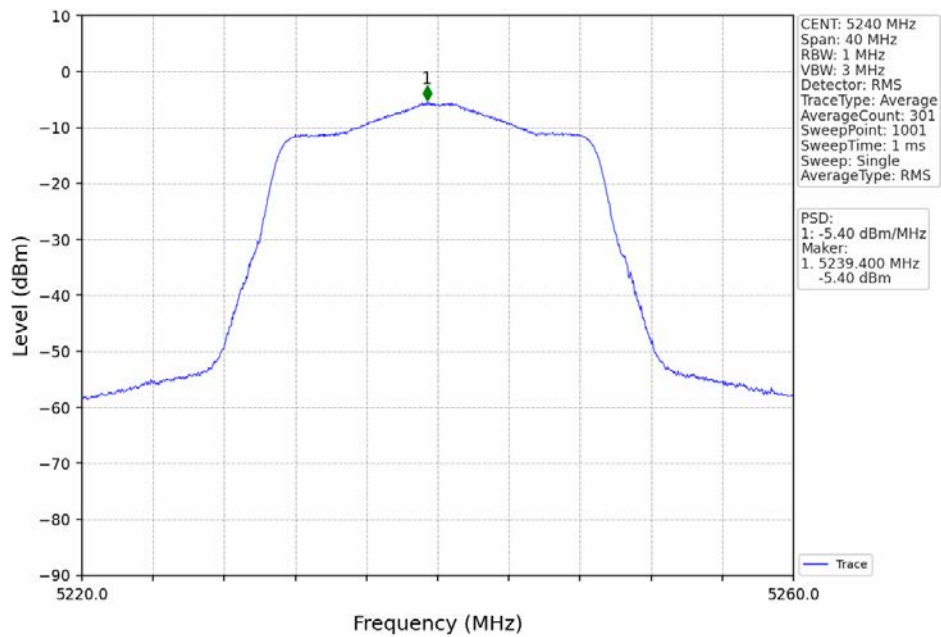
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



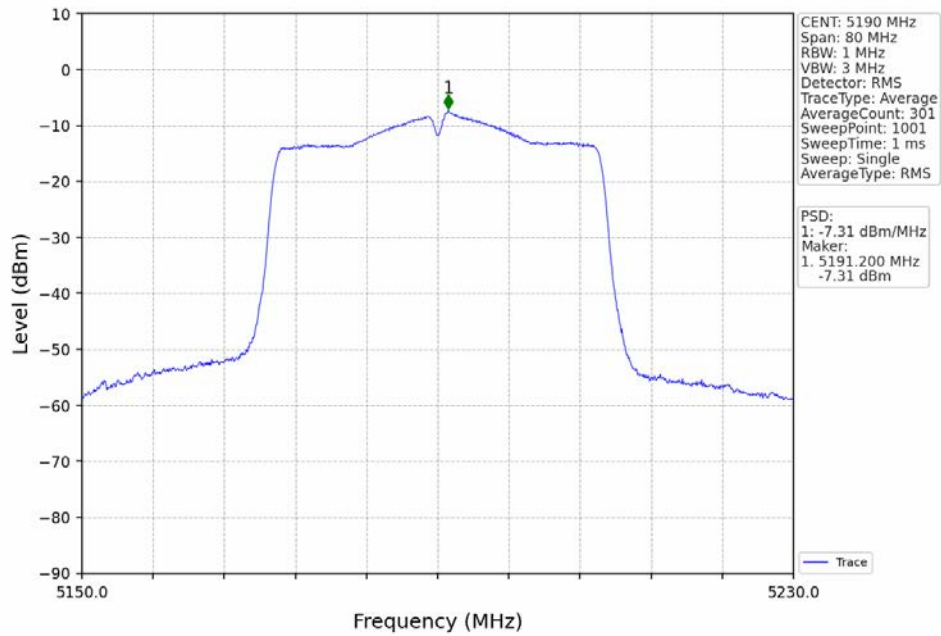
802.11n(HT20) HCH 5240MHz_Ant1_NTNV



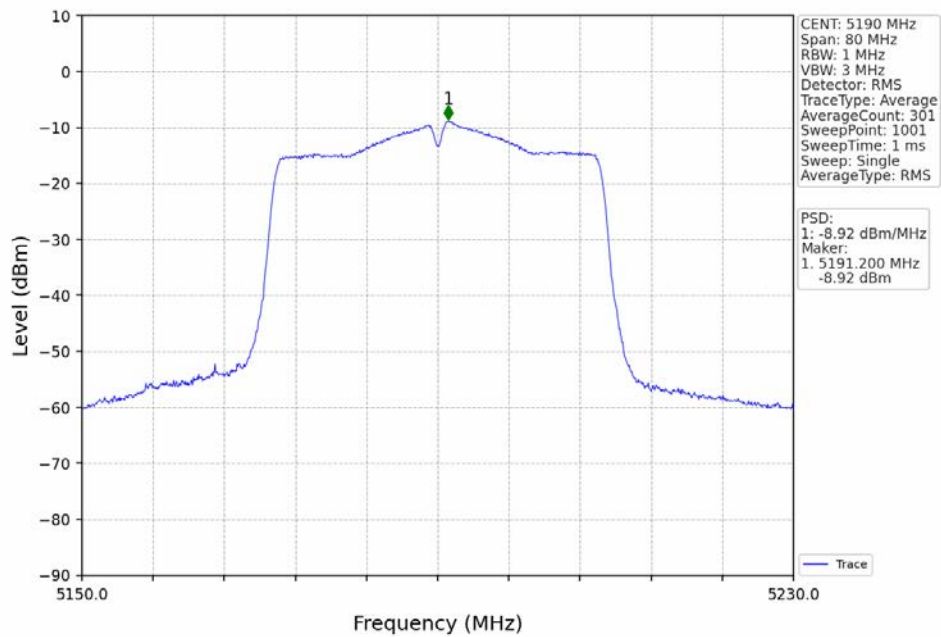
802.11n(HT20) HCH 5240MHz_Ant2_NTNV



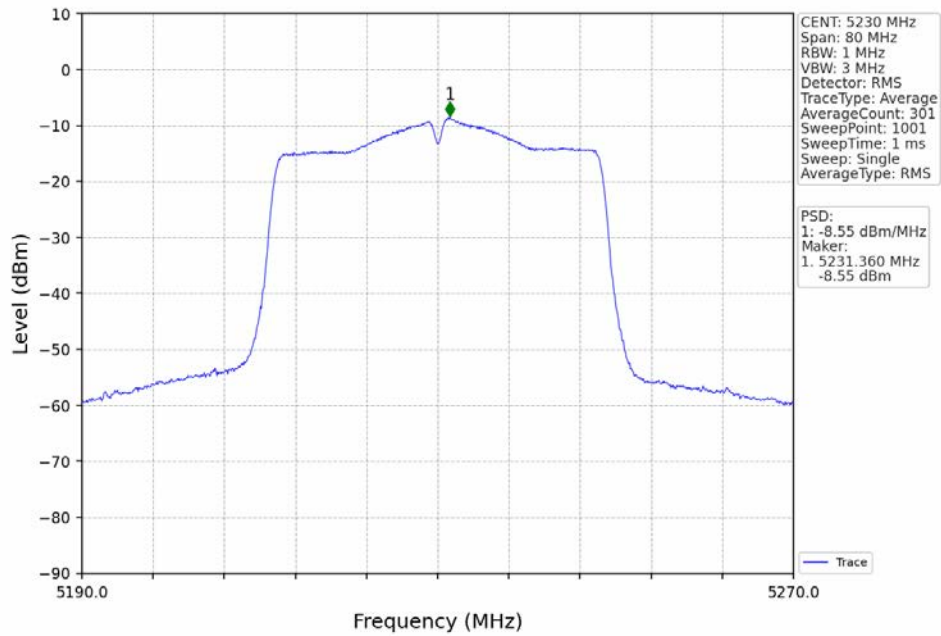
802.11n(HT40) LCH 5190MHz_Ant1_NTNV



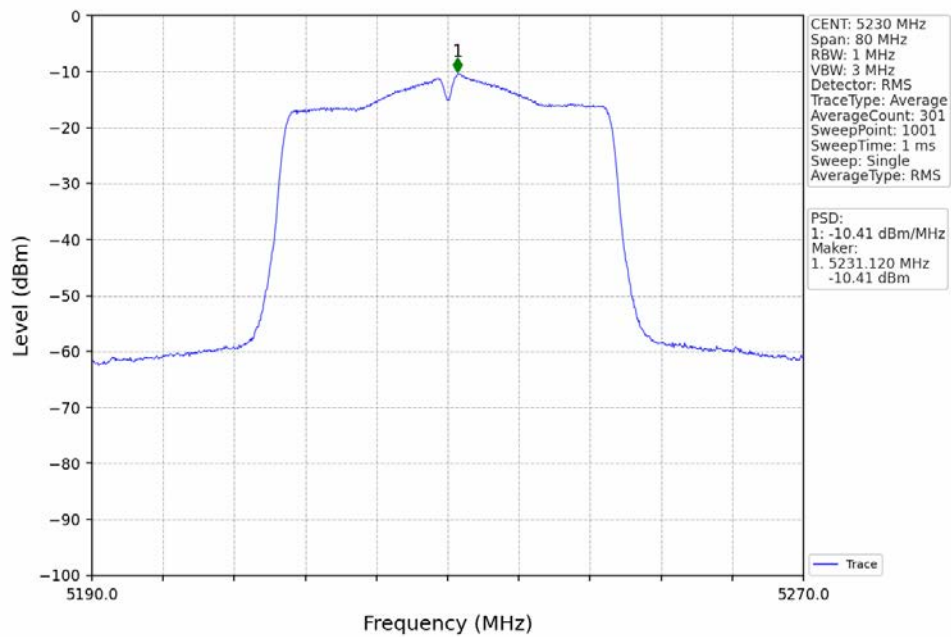
802.11n(HT40) LCH 5190MHz_Ant2_NTNV



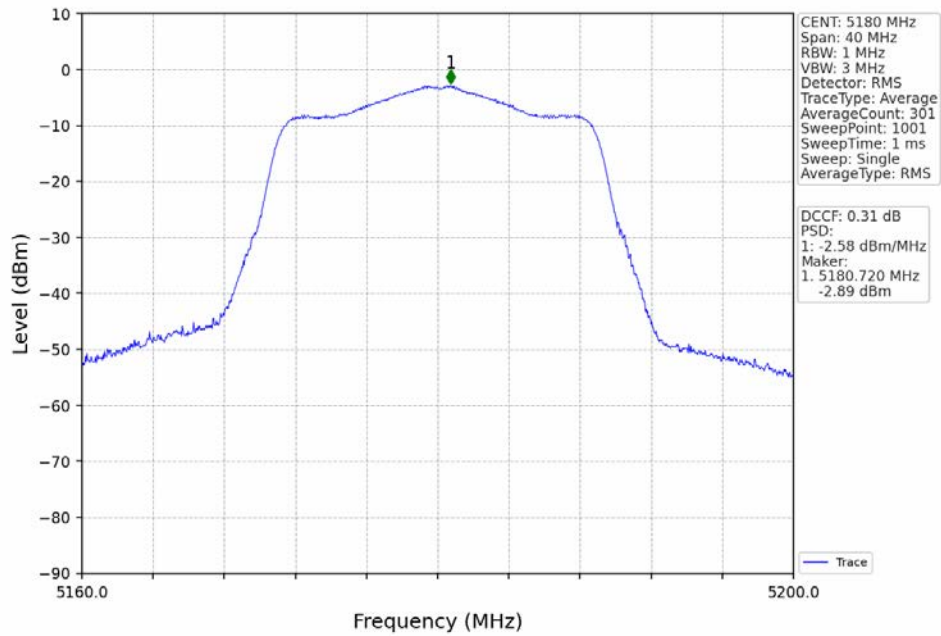
802.11n(HT40) HCH 5230MHz_Ant1_NTNV



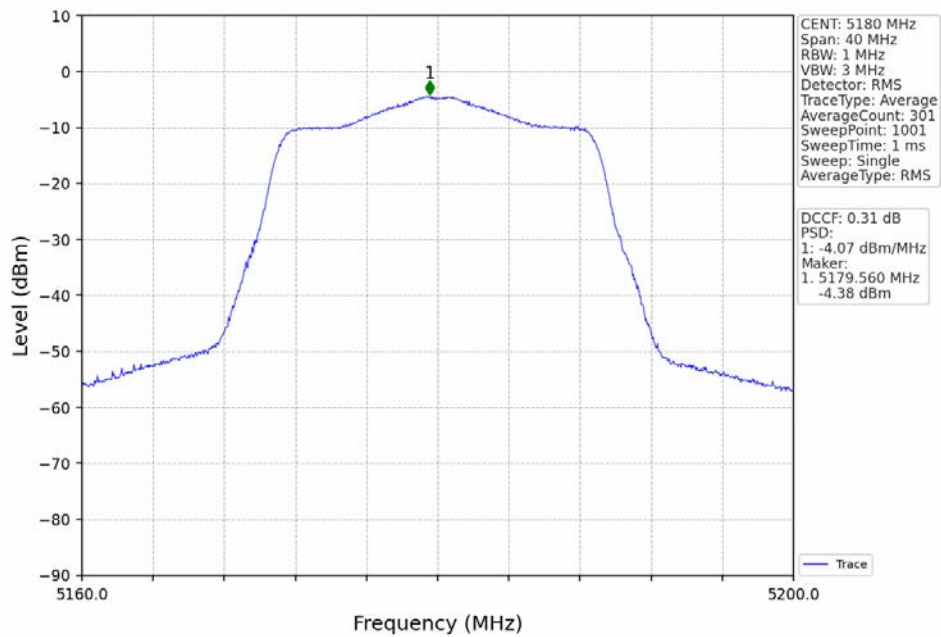
802.11n(HT40) HCH 5230MHz_Ant2_NTNV



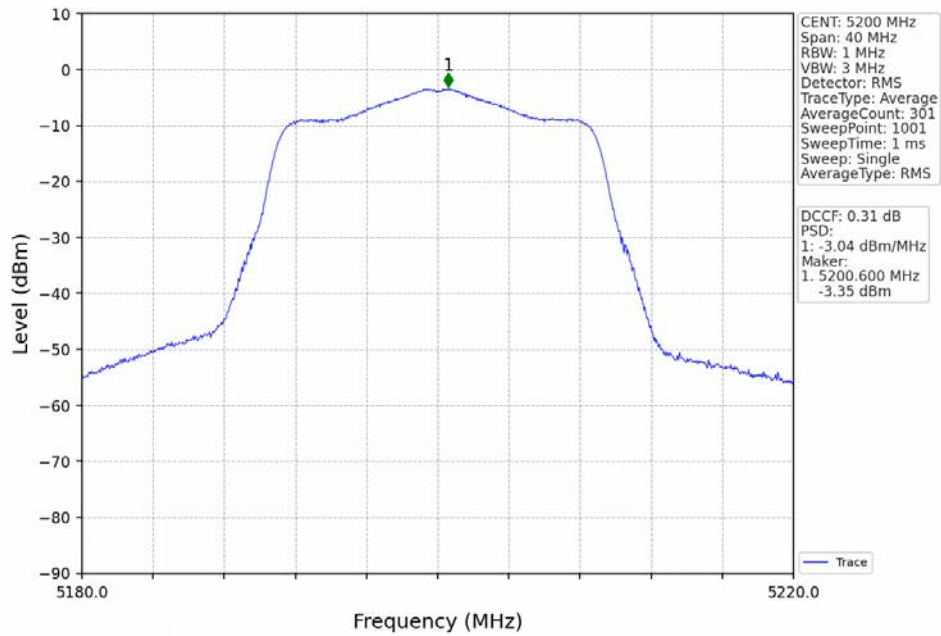
802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20) LCH_5180MHz_Ant2_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV

