

ANNEX 1 TEST DATA

FCC ID: 2A9PI-LIXELL3

Applicant: SHENZHEN XGRIDS-INNOVATION CO., LTD

Address: 2401-2404, Building3, Shenzhen International Innovation Valley, Nanshan District, Shenzhen

Manufacturer: SHENZHEN XGRIDS-INNOVATION CO., LTD

Address: 2401-2404, Building3, Shenzhen International Innovation Valley, Nanshan District, Shenzhen

Product Name: Mobile Lidar Scanner

Trade Mark: XGRIDS

Model Number: Lixel L3, Lixel L3-16/120, Lixel L3-32/120, Lixel L3-32/300

Date of Receipt: Sep. 01, 2026

Test Date: Sep. 01, 2026 - Sep. 18, 2026

Date of Report: Sep. 18, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC PART 15 E 15.407
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
KDB 662911 D01 Multiple Transmitter Output v02r01
KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

Test Result: Pass

Report Number: DLE-260831029R

1. Duty Cycle

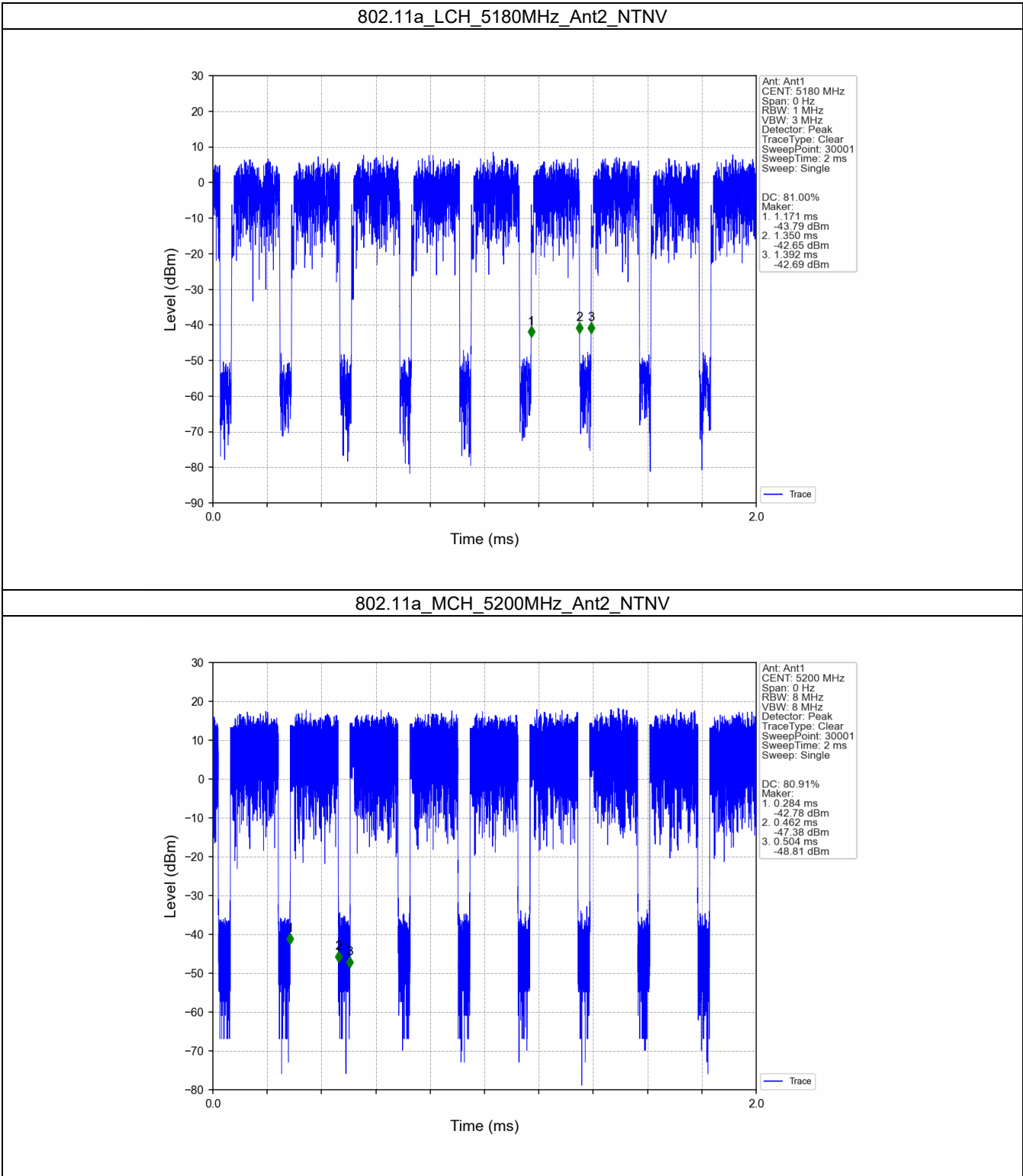
1.1 Test Result

1.1.1 Ant2

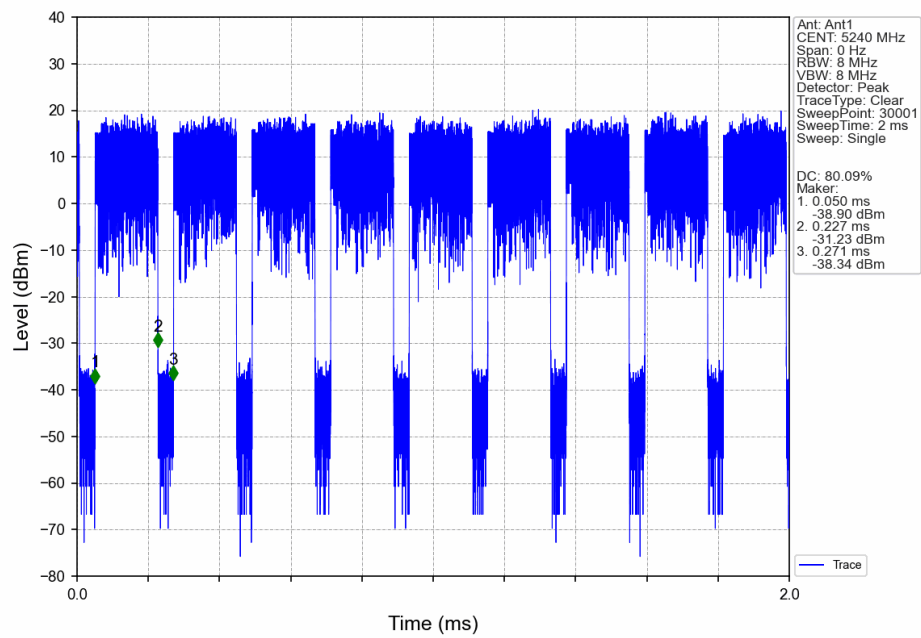
Ant2							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	0.179	0.221	81.00	0.92	0.08
		5200	0.178	0.220	80.91	0.92	0.13
		5240	0.177	0.221	80.09	0.96	0.11
802.11n (HT20)	SISO	5180	0.166	0.209	79.43	1.00	0.08
		5200	0.165	0.209	78.95	1.03	0.15
		5240	0.000	0.001	0.00	0.00	28.90
802.11n (HT40)	SISO	5190	0.312	0.388	80.41	0.95	0.14
		5230	0.345	0.389	88.69	0.52	0.07
802.11ac (VHT20)	SISO	5180	0.149	0.193	77.20	1.12	0.10
		5200	0.150	0.192	78.12	1.07	0.14
		5240	0.149	0.192	77.60	1.10	0.10
802.11ac (VHT40)	SISO	5190	0.090	0.132	68.18	1.66	0.27
		5230	0.089	0.132	67.42	1.71	0.13
802.11ac (VHT80)	SISO	5210	0.065	0.126	51.59	2.87	8.61

1.2 Test Graph

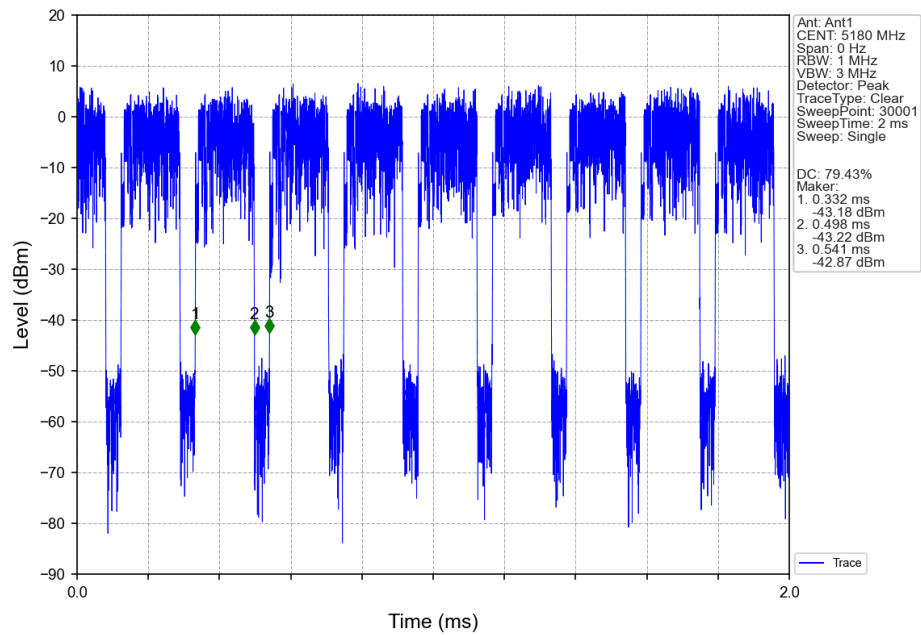
1.2.1 Ant2



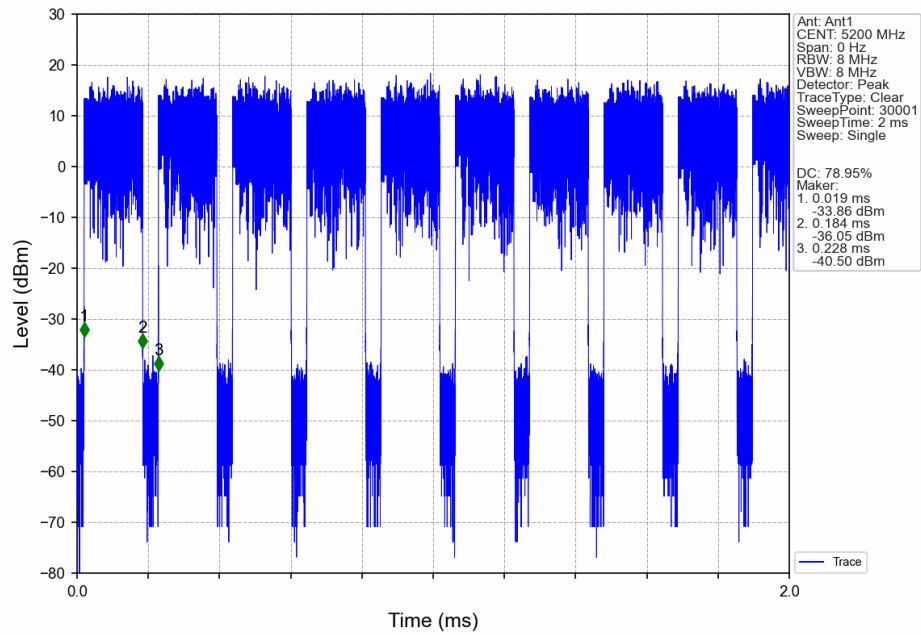
802.11a_HCH_5240MHz_Ant2_NTNV



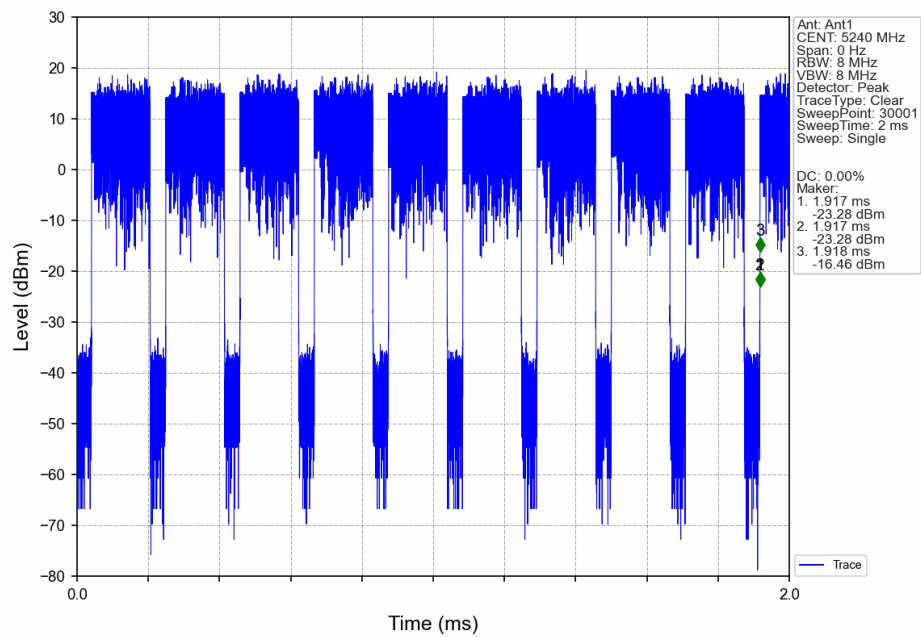
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



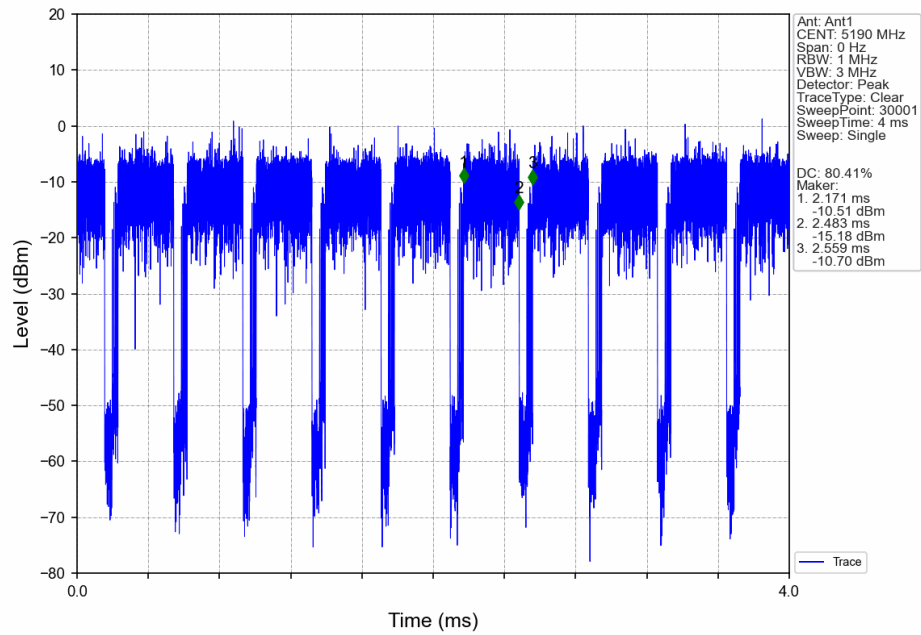
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



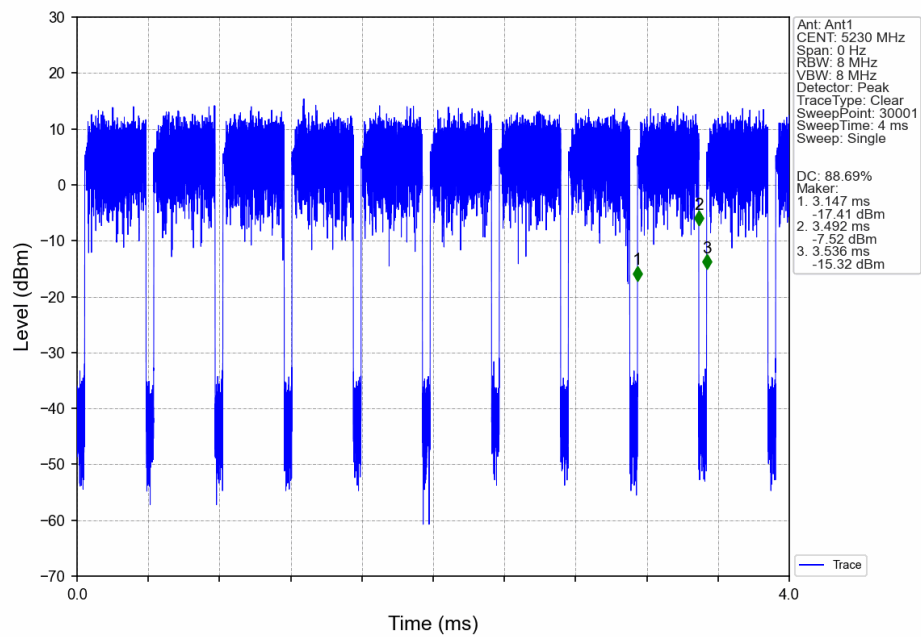
802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



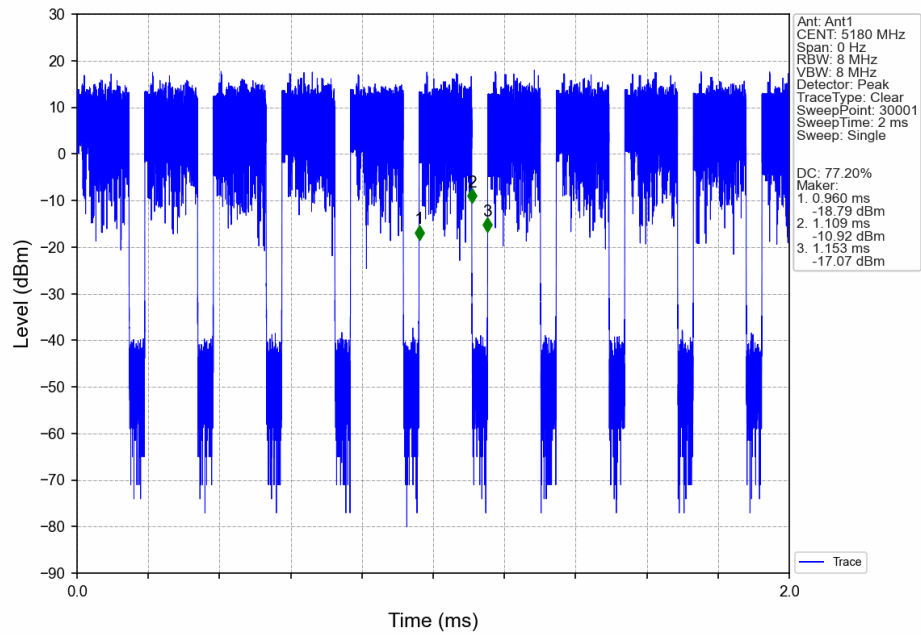
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



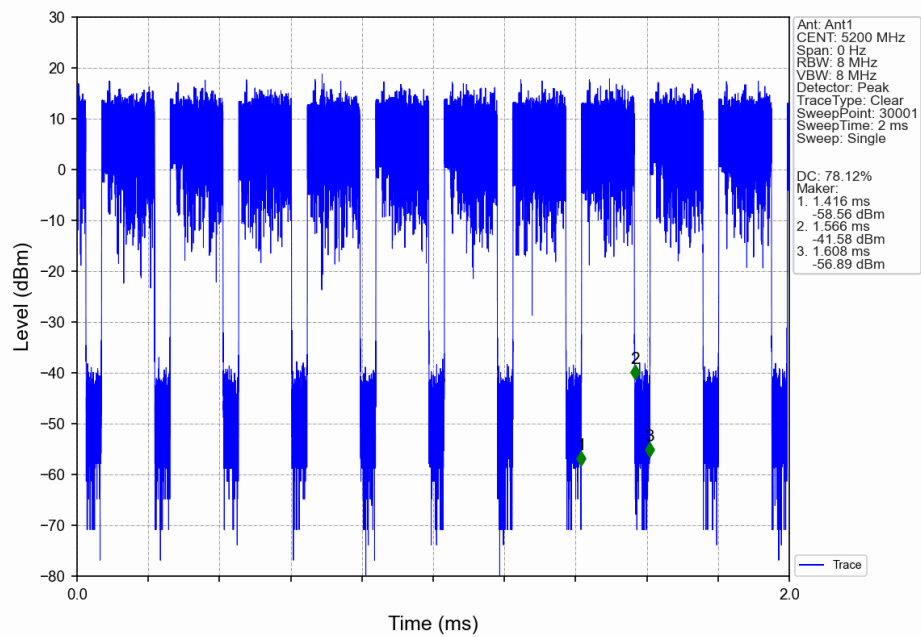
802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



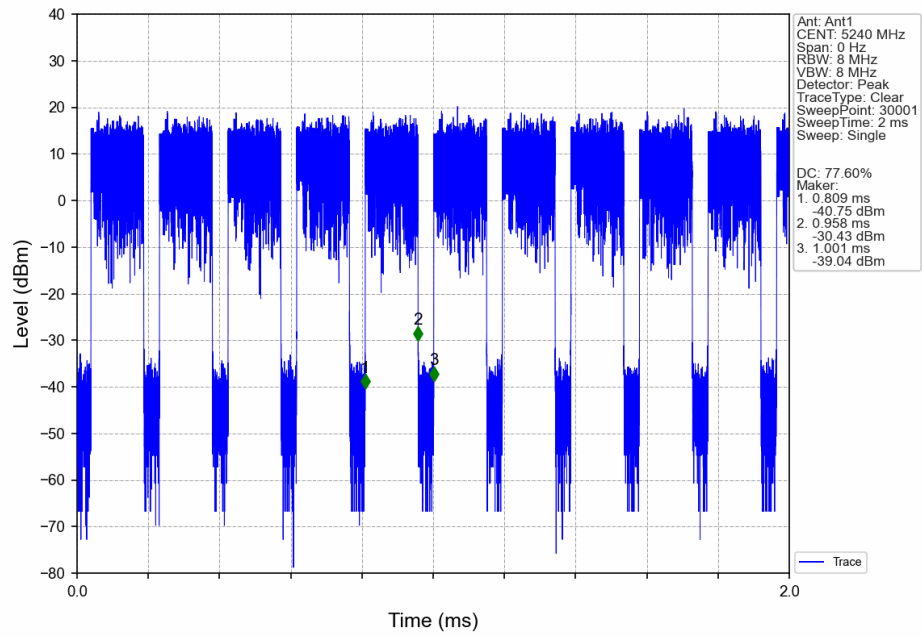
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



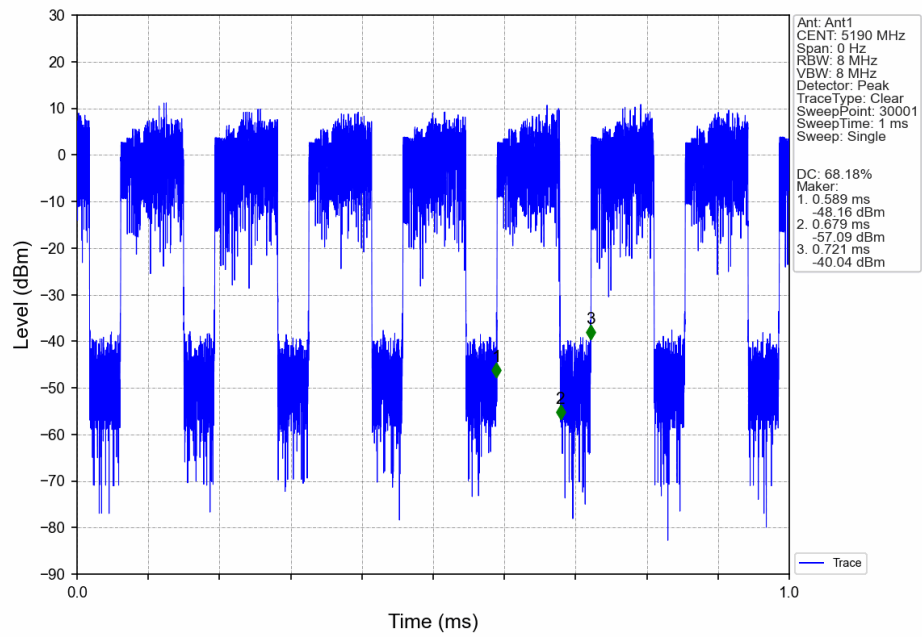
802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



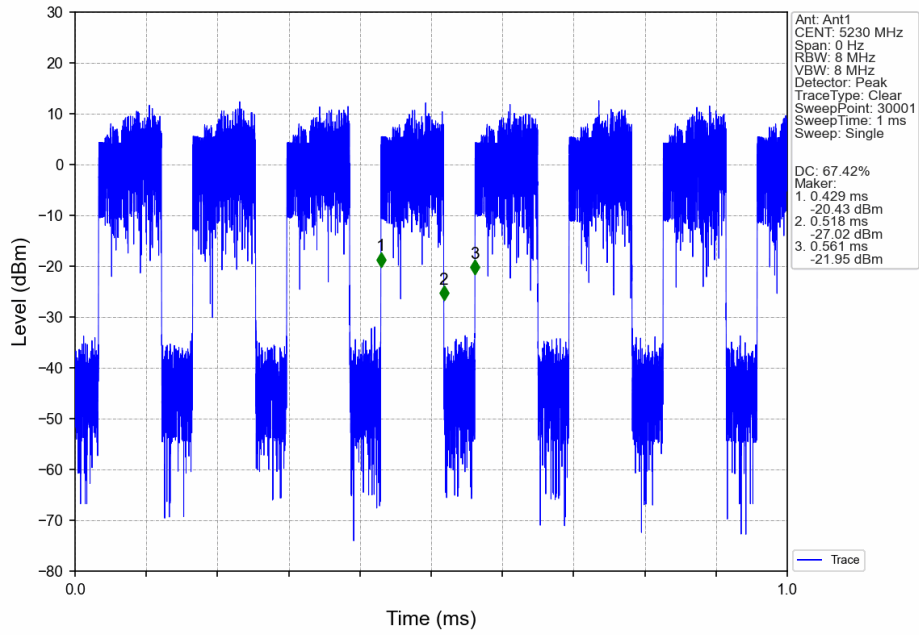
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



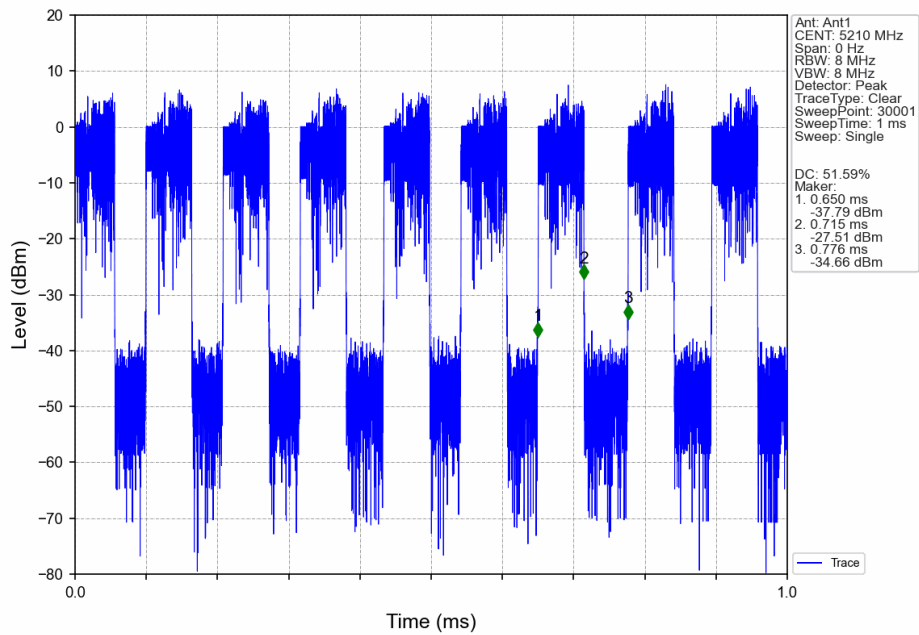
802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

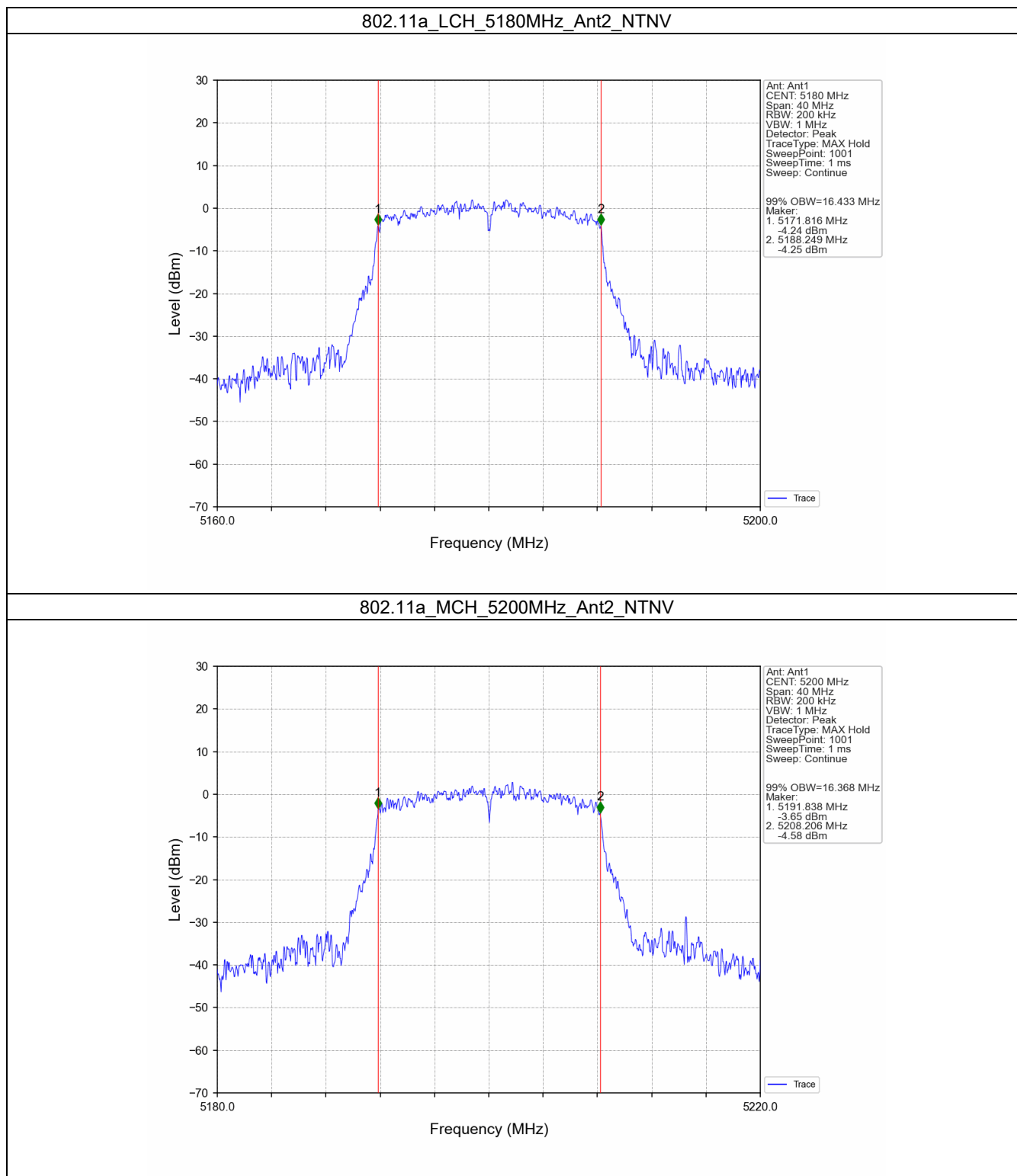
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	16.433	/	Pass
		5200	1	16.368	/	Pass
		5240	1	16.417	/	Pass
802.11n (HT20)	SISO	5180	1	17.581	/	Pass
		5200	1	17.556	/	Pass
		5240	1	17.571	/	Pass
802.11n (HT40)	SISO	5190	1	36.185	/	Pass
		5230	1	36.268	/	Pass
802.11ac (VHT20)	SISO	5180	1	17.542	/	Pass
		5200	1	17.548	/	Pass
		5240	1	17.575	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.232	/	Pass
		5230	1	36.224	/	Pass
802.11ac (VHT80)	SISO	5210	1	75.519	/	Pass

2.1.2 26dB BW

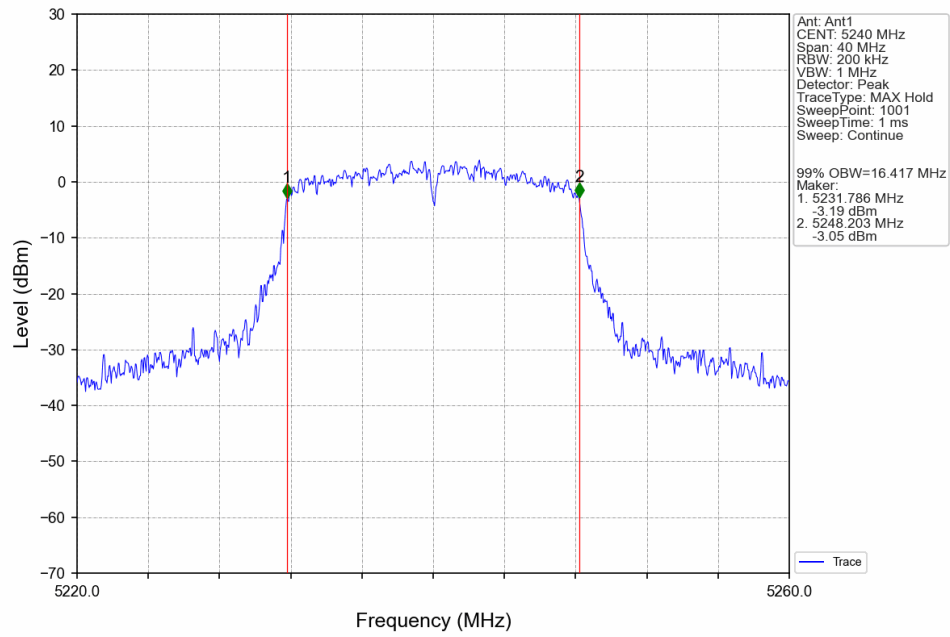
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	19.265	/	Pass
		5200	1	19.379	/	Pass
		5240	1	19.602	/	Pass
802.11n (HT20)	SISO	5180	1	19.888	/	Pass
		5200	1	19.655	/	Pass
		5240	1	19.968	/	Pass
802.11n (HT40)	SISO	5190	1	41.542	/	Pass
		5230	1	40.860	/	Pass
802.11ac (VHT20)	SISO	5180	1	19.768	/	Pass
		5200	1	19.750	/	Pass
		5240	1	19.905	/	Pass
802.11ac (VHT40)	SISO	5190	1	41.285	/	Pass
		5230	1	41.262	/	Pass
802.11ac (VHT80)	SISO	5210	1	81.001	/	Pass

2.2 Test Graph

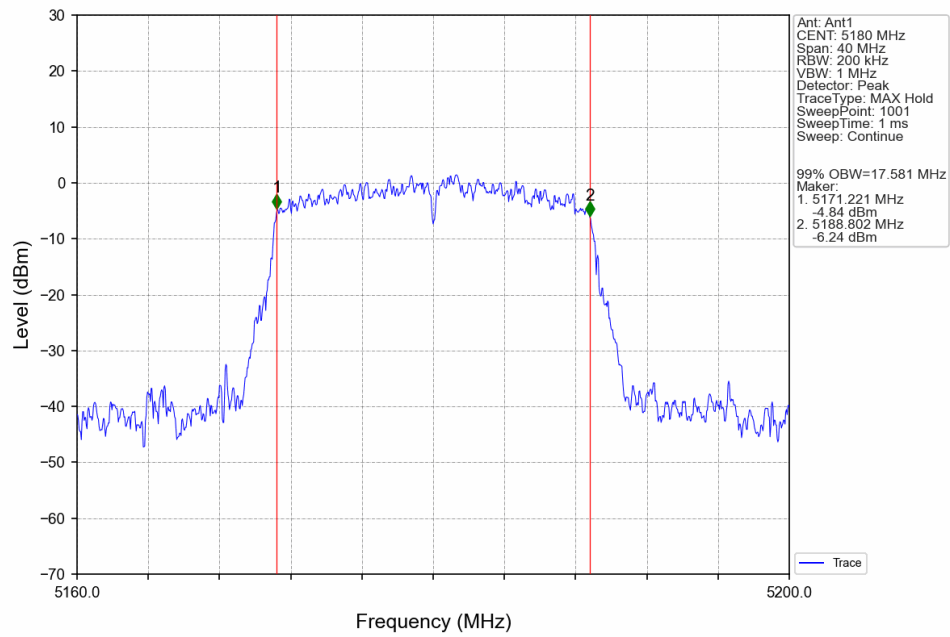
2.2.1 OBW



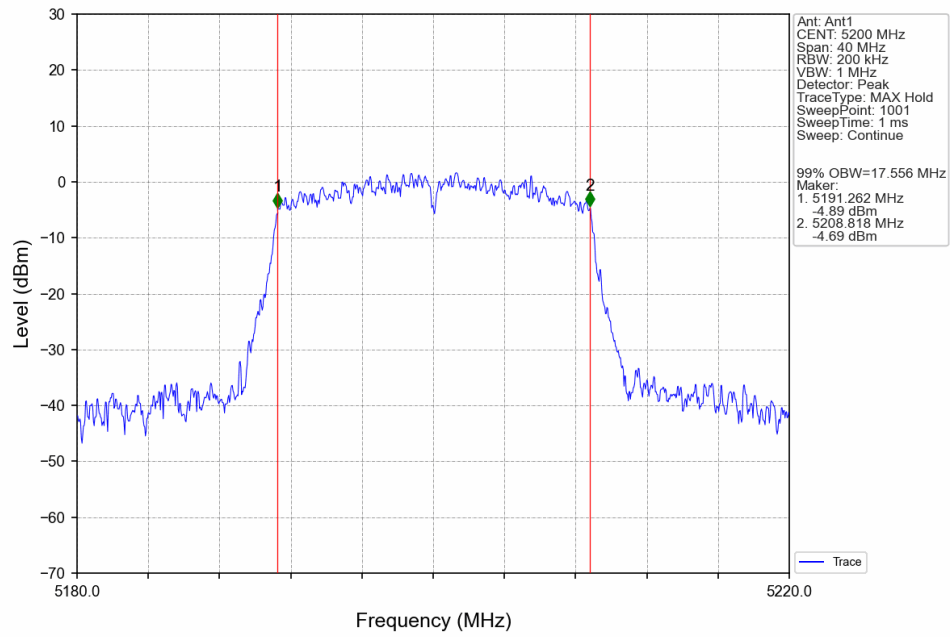
802.11a_HCH_5240MHz_Ant2_NTNV



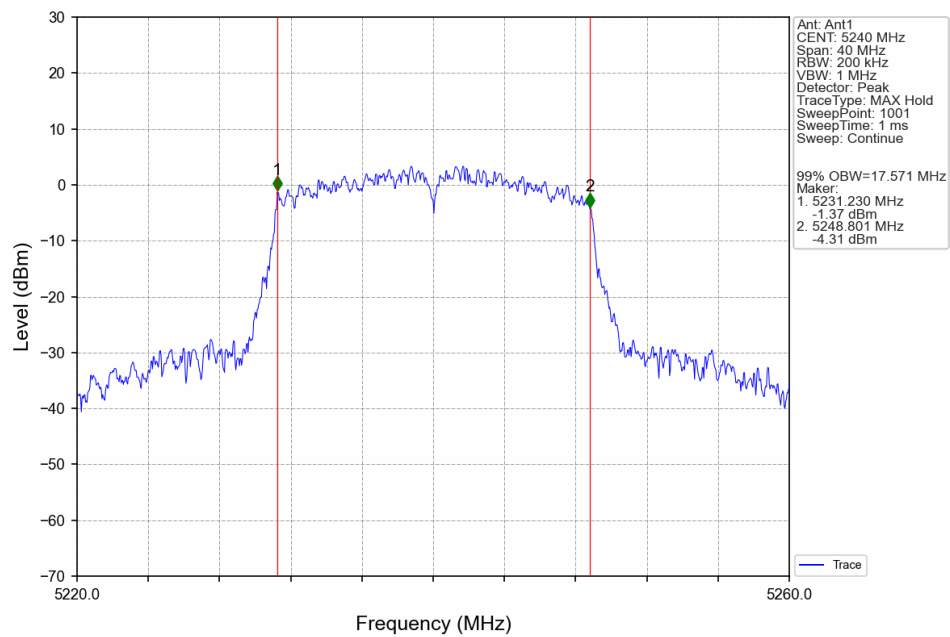
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



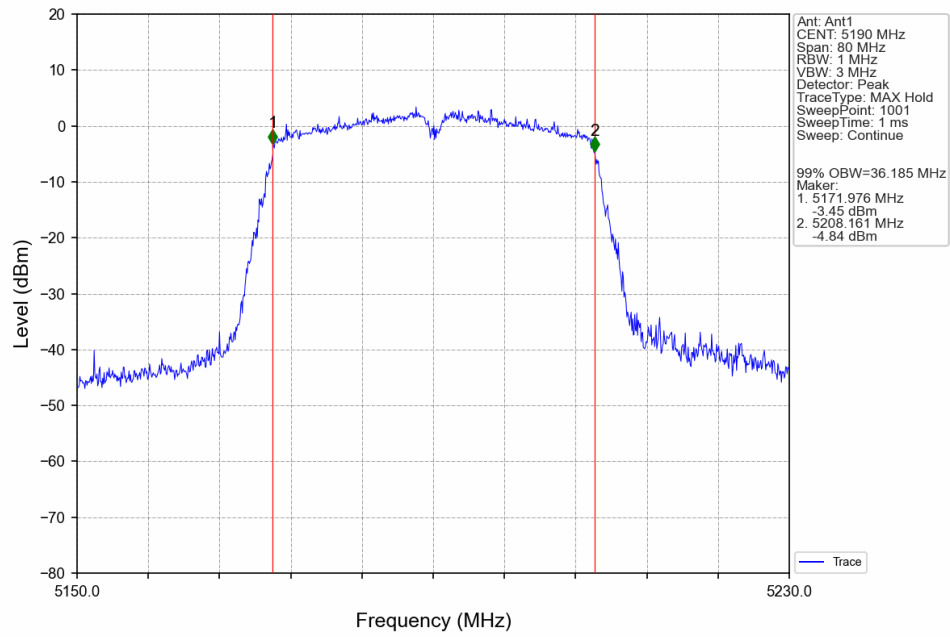
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



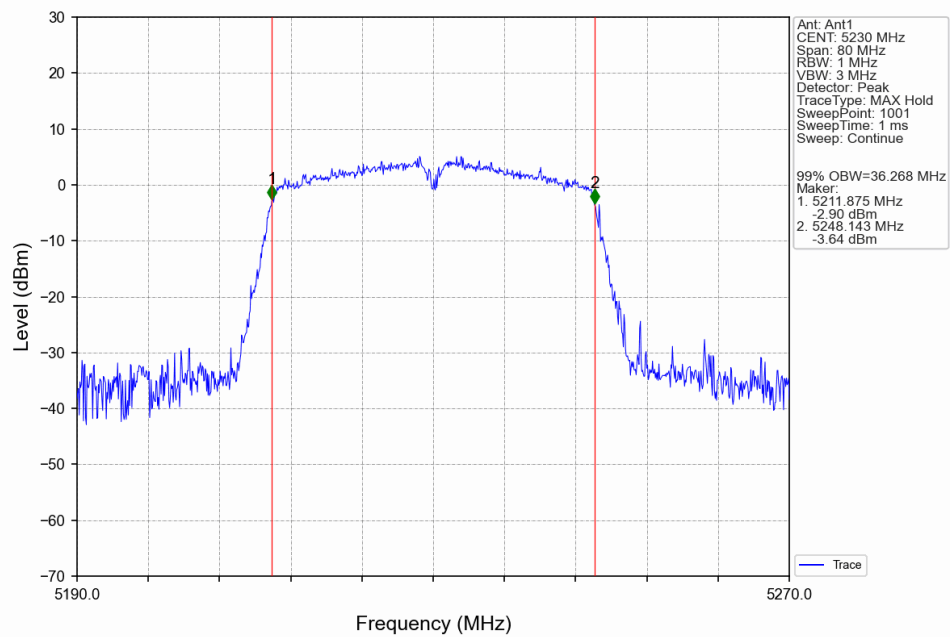
802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



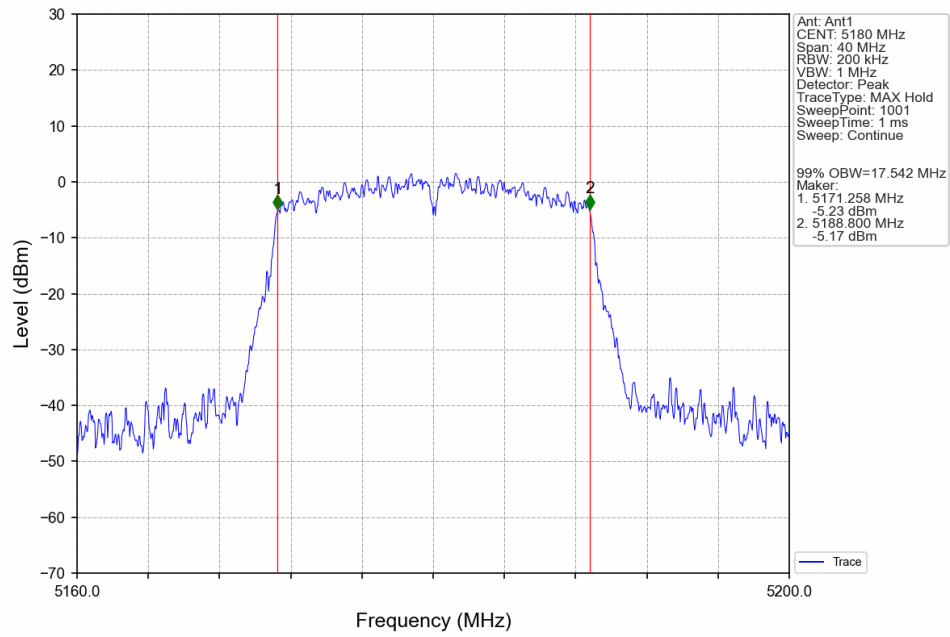
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



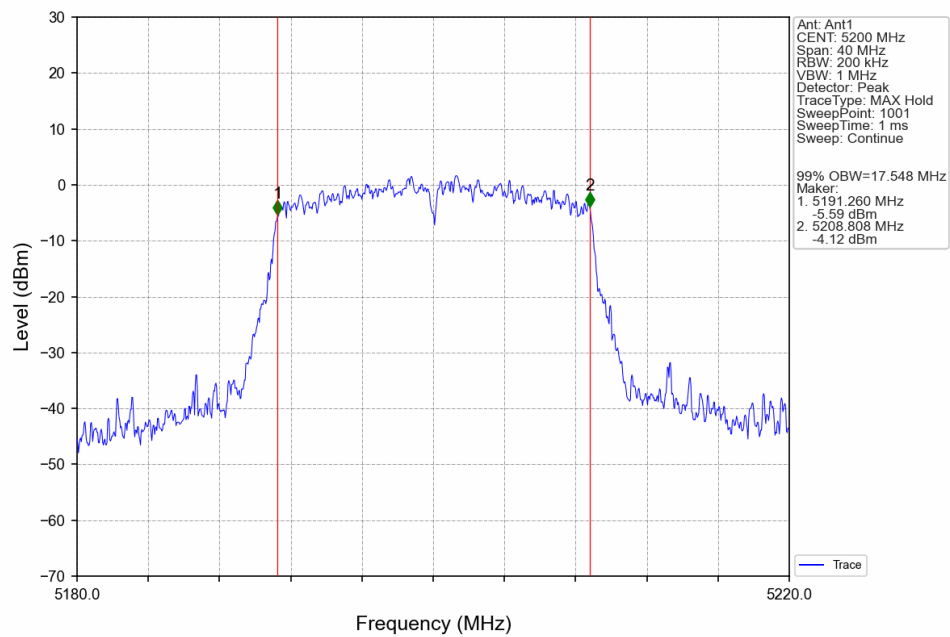
802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



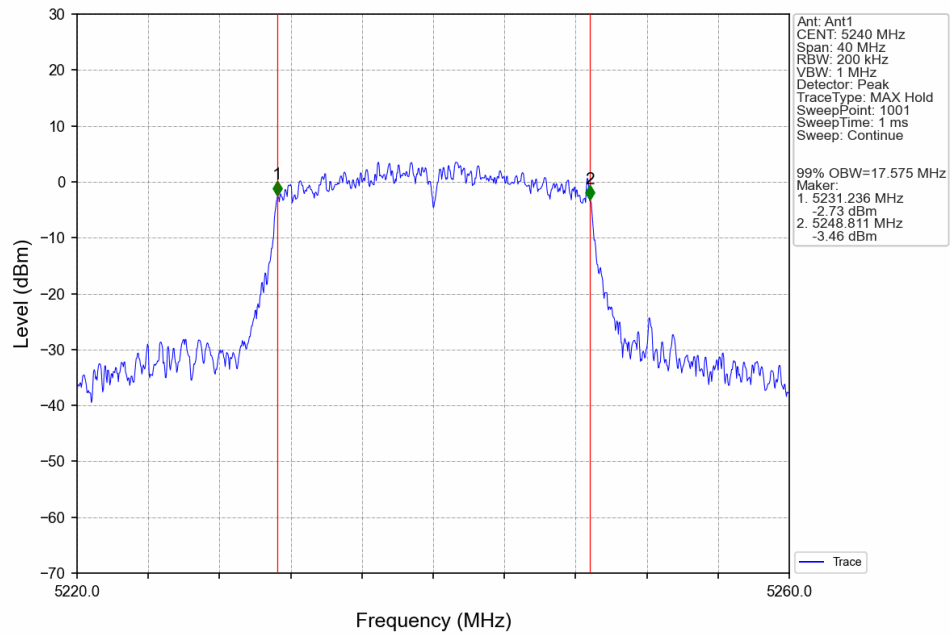
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



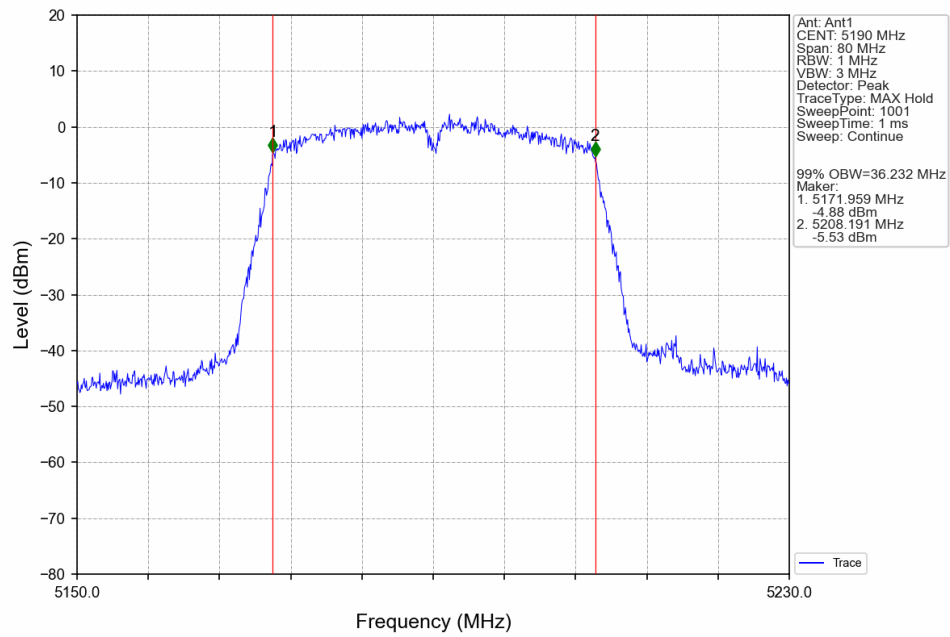
802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



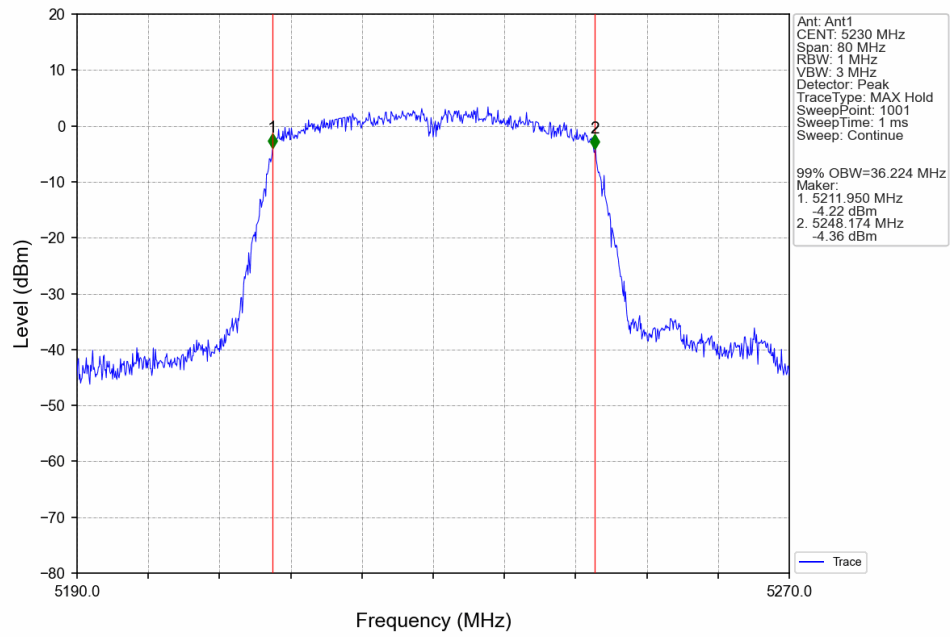
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



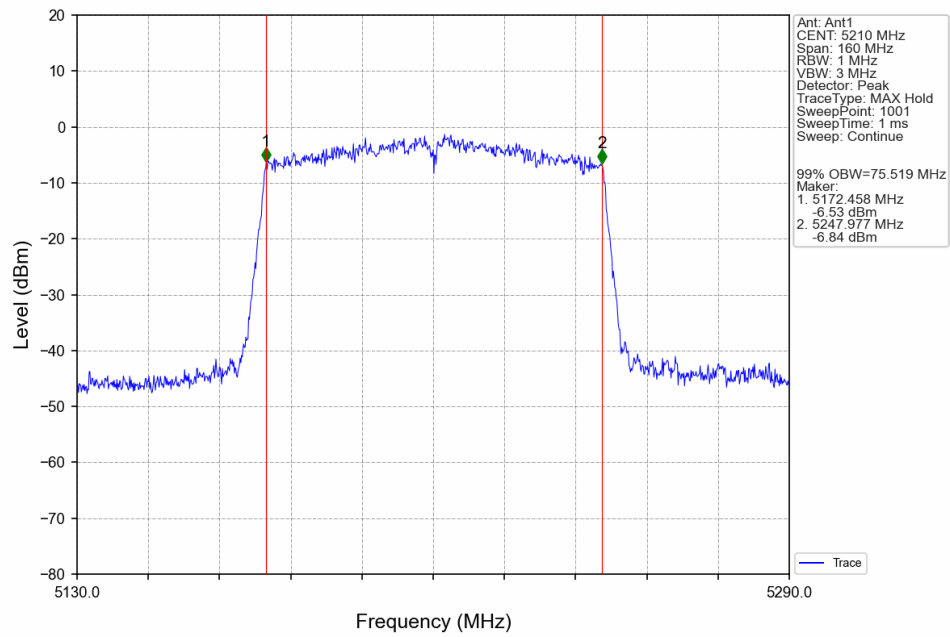
802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



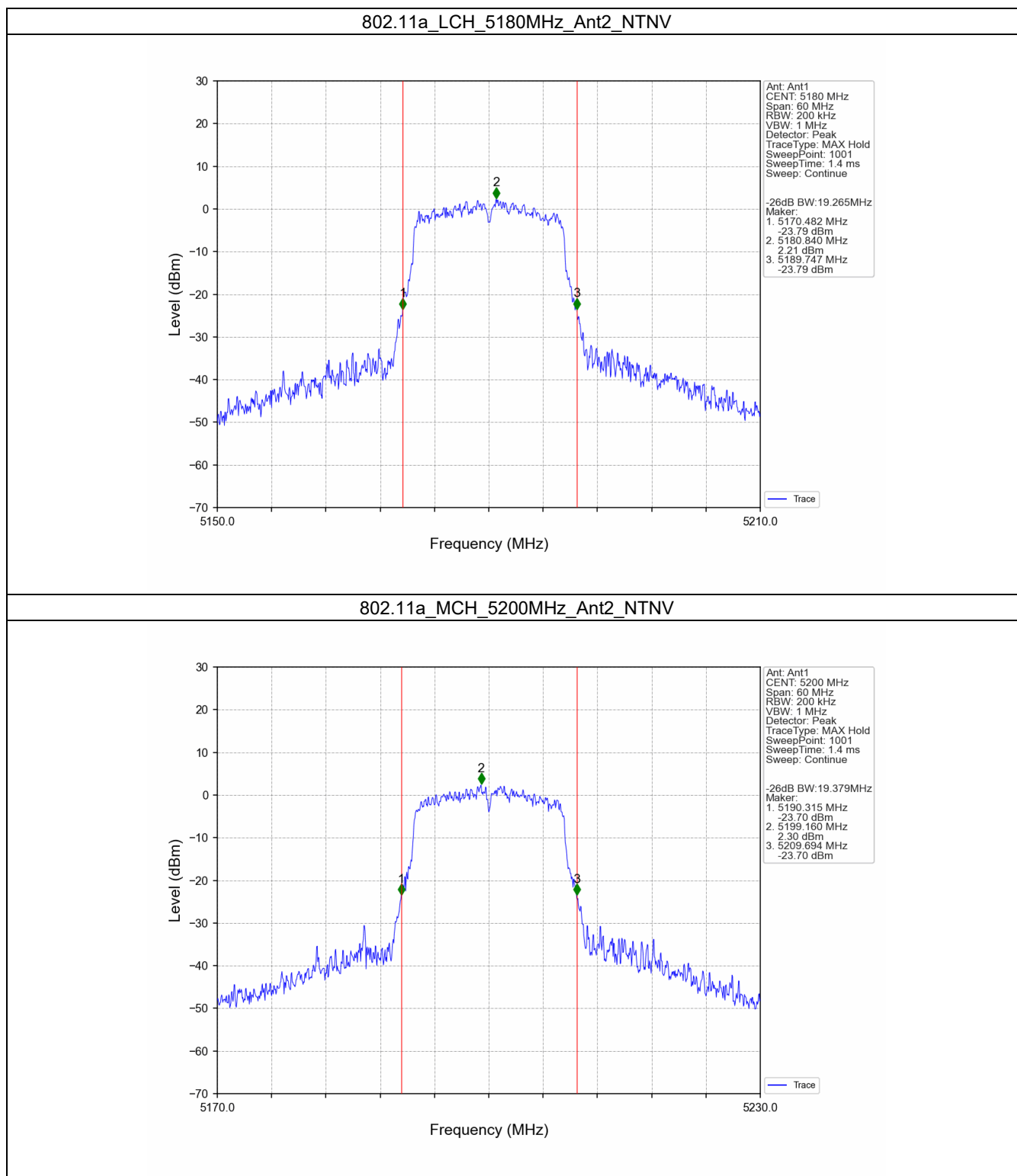
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



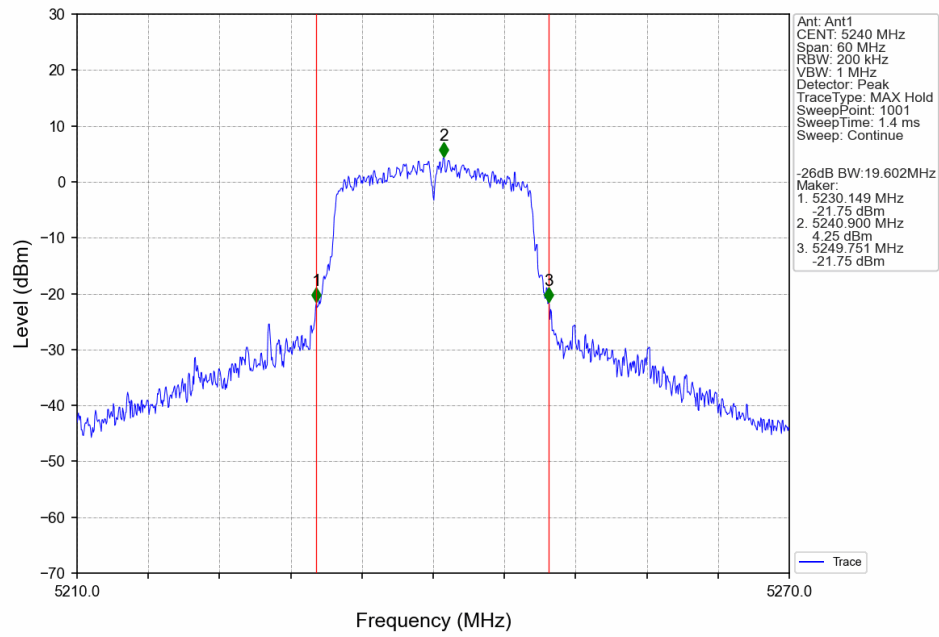
802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



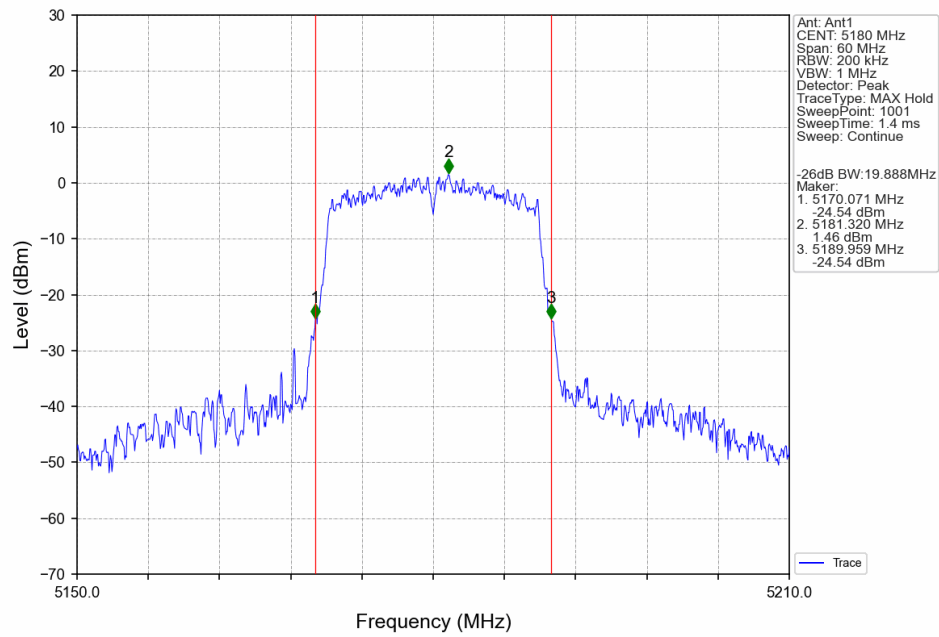
2.2.2 26dB BW



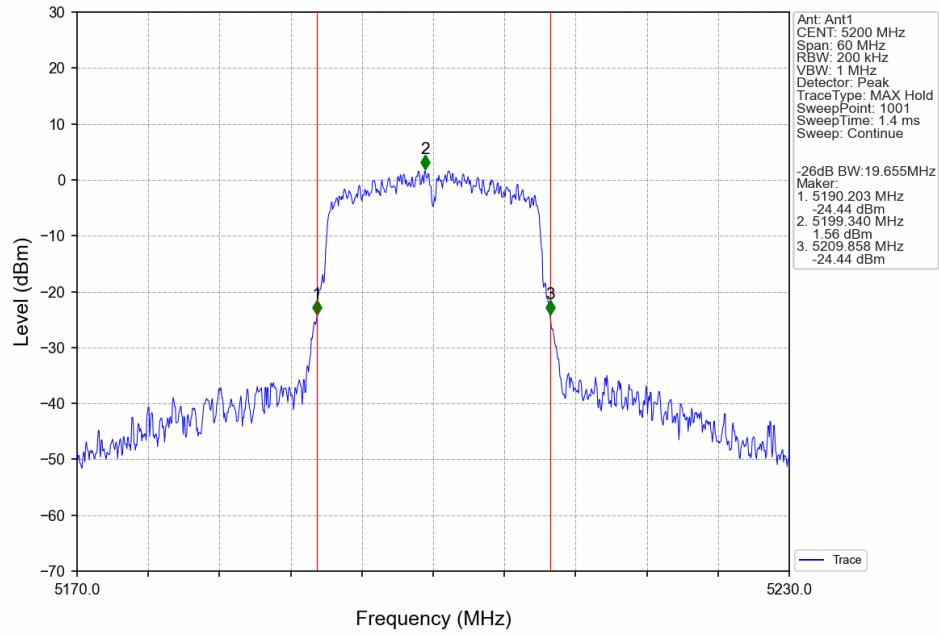
802.11a_HCH_5240MHz_Ant2_NTNV



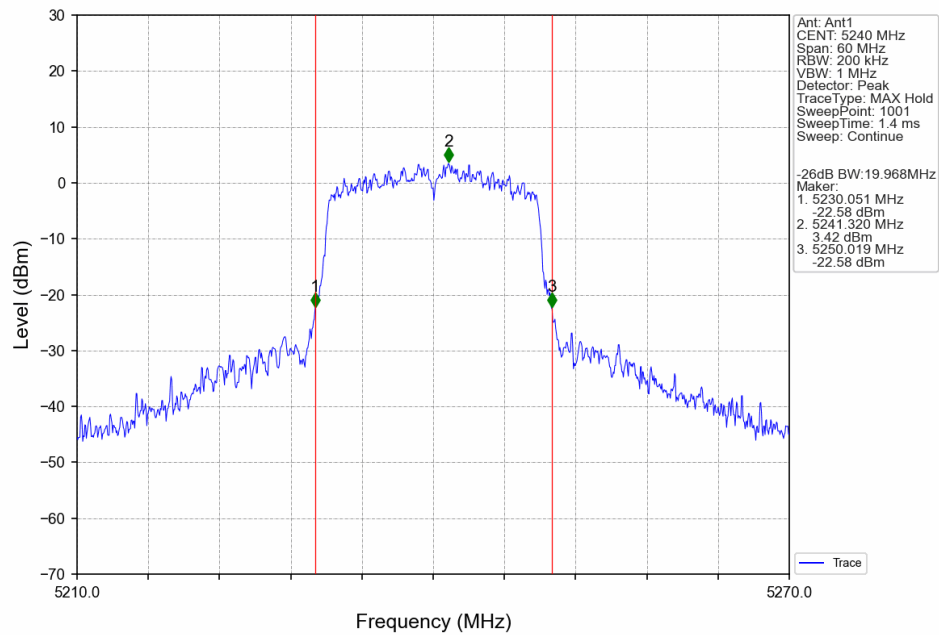
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



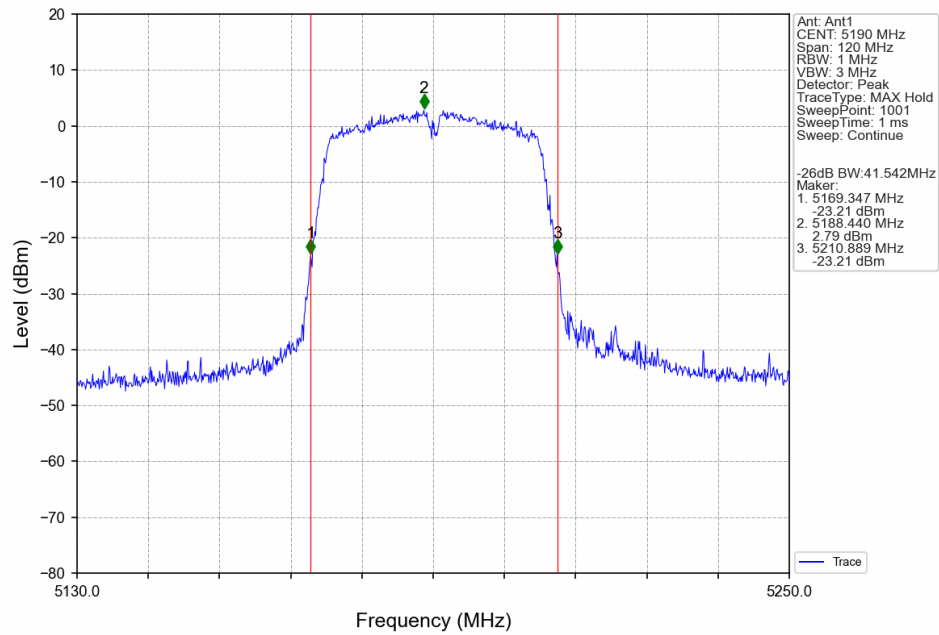
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



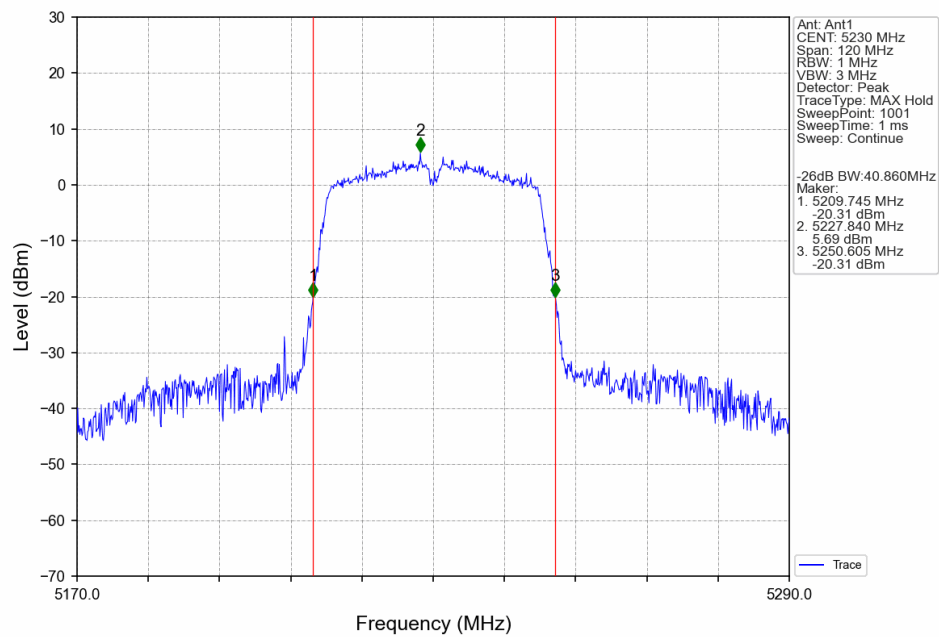
802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



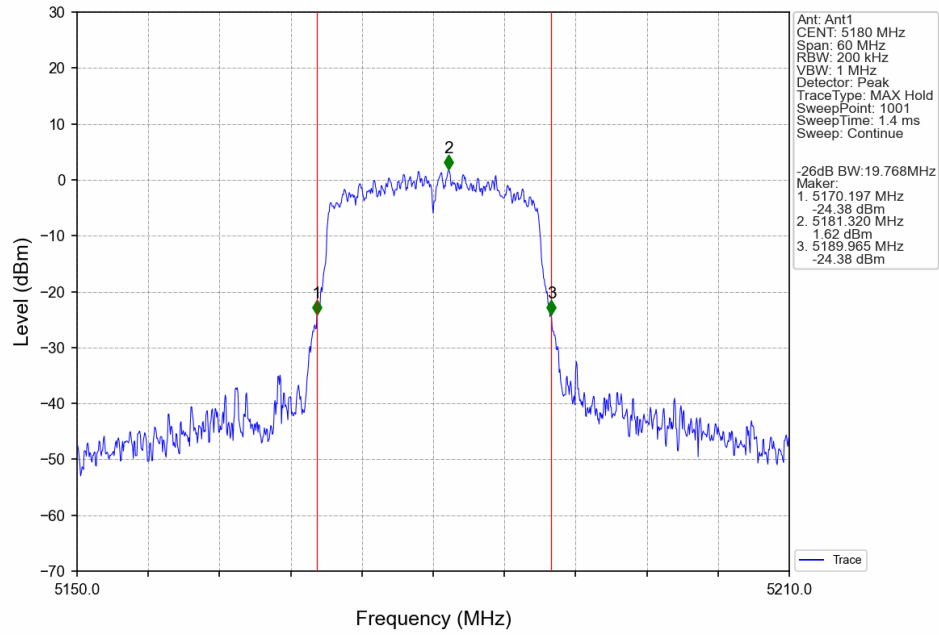
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



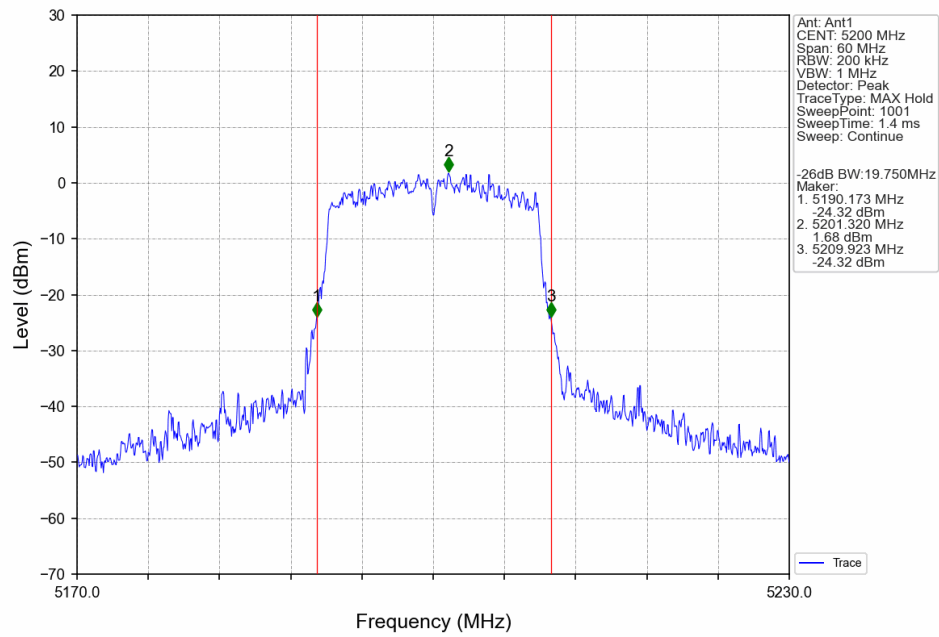
802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



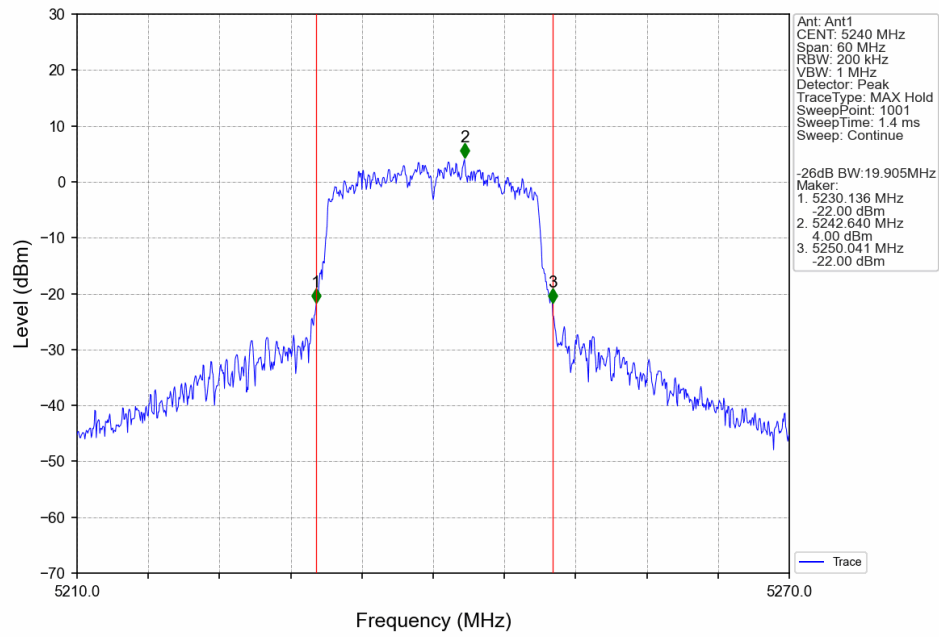
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



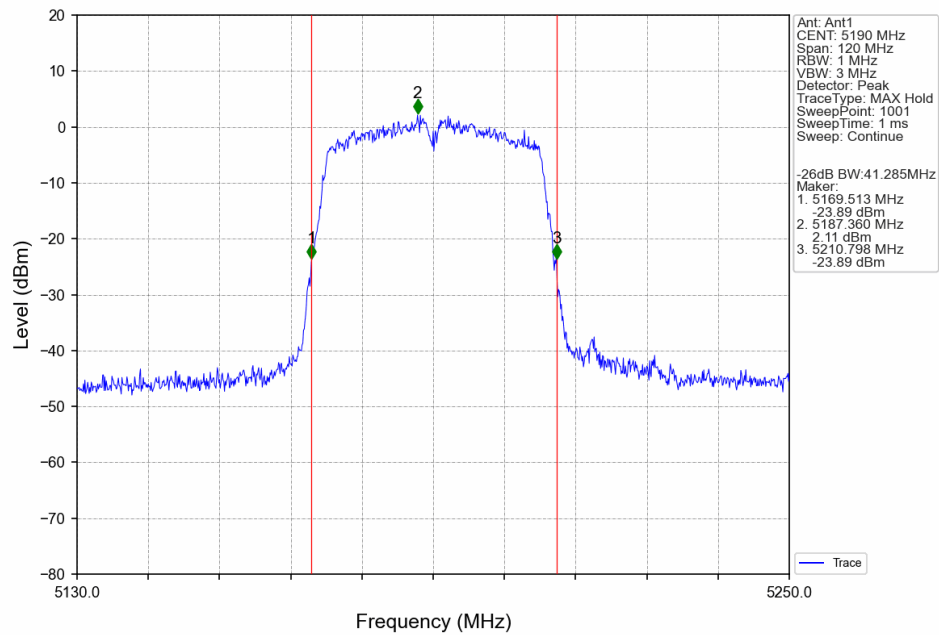
802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



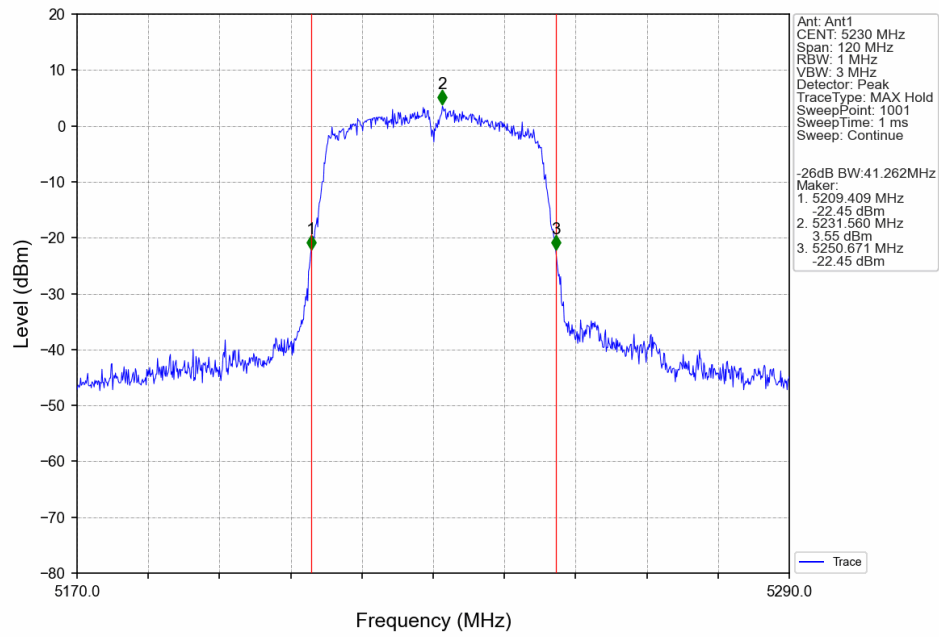
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



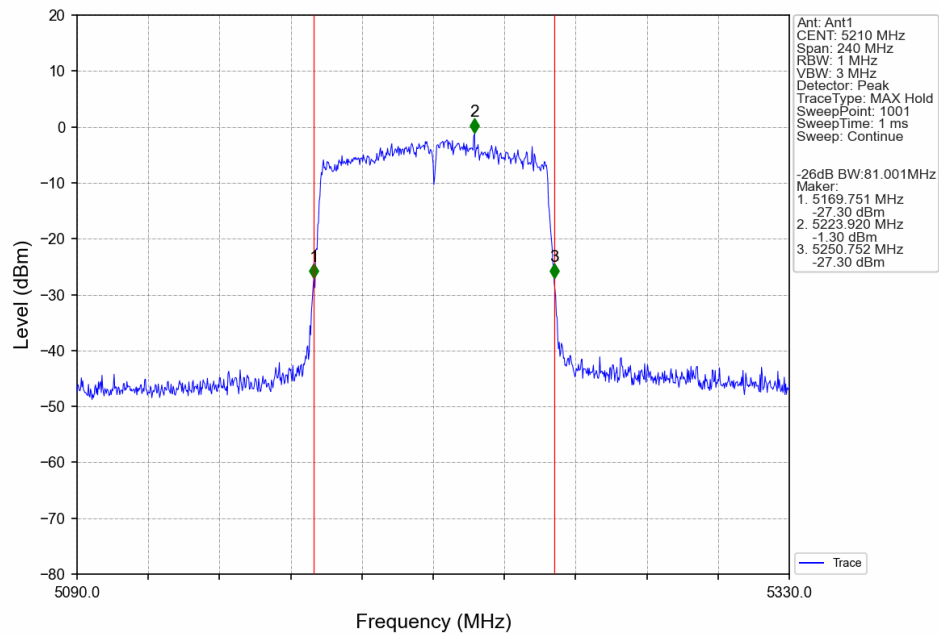
802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	ANT2				Verdict
			Conducted Output Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Limit (dBm)	
802.11a	SISO	5180	10.37	0.92	11.29	<=23.98	Pass
		5200	10.39	0.92	11.31	<=23.98	Pass
		5240	12.1	0.96	13.06	<=23.98	Pass
802.11n (HT20)	SISO	5180	9.52	1.00	10.52	<=23.98	Pass
		5200	9.77	1.03	10.80	<=23.98	Pass
		5240	10.22	0.00	10.22	<=23.98	Pass
802.11n (HT40)	SISO	5190	7.97	0.95	8.92	<=23.98	Pass
		5230	9.64	0.52	10.16	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	9.63	1.12	10.75	<=23.98	Pass
		5200	9.63	1.07	10.70	<=23.98	Pass
		5240	11.57	1.10	12.67	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	4.8	1.66	6.46	<=23.98	Pass
		5230	6.58	1.71	8.29	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	4.38	2.87	7.25	<=23.98	Pass

Condition	Mode	Frequency (MHz)	Total Output Power (dBm)		ANT1&ANT2 MIMO Conducted Output Power(dBm)	Limit (dBm)
			ANT1	ANT2		
NVNT	n20	5180	10.16	10.52	13.35	<=23.98
NVNT	n20	5200	10.63	10.80	13.73	<=23.98
NVNT	n20	5240	12.43	10.22	14.47	<=23.98
NVNT	n40	5190	8.43	8.92	11.69	<=23.98
NVNT	n40	5230	10.01	10.16	13.10	<=23.98
NVNT	ac20	5180	10.34	10.75	13.56	<=23.98
NVNT	ac20	5200	10.36	10.70	13.54	<=23.98
NVNT	ac20	5240	12.50	12.67	15.60	<=23.98
NVNT	ac40	5190	6.51	6.46	9.50	<=23.98
NVNT	ac40	5230	8.20	8.29	11.26	<=23.98
NVNT	ac80	5210	7.26	7.25	10.27	<=23.98

4. Maximum Power Spectral Density

4.1 Test Result

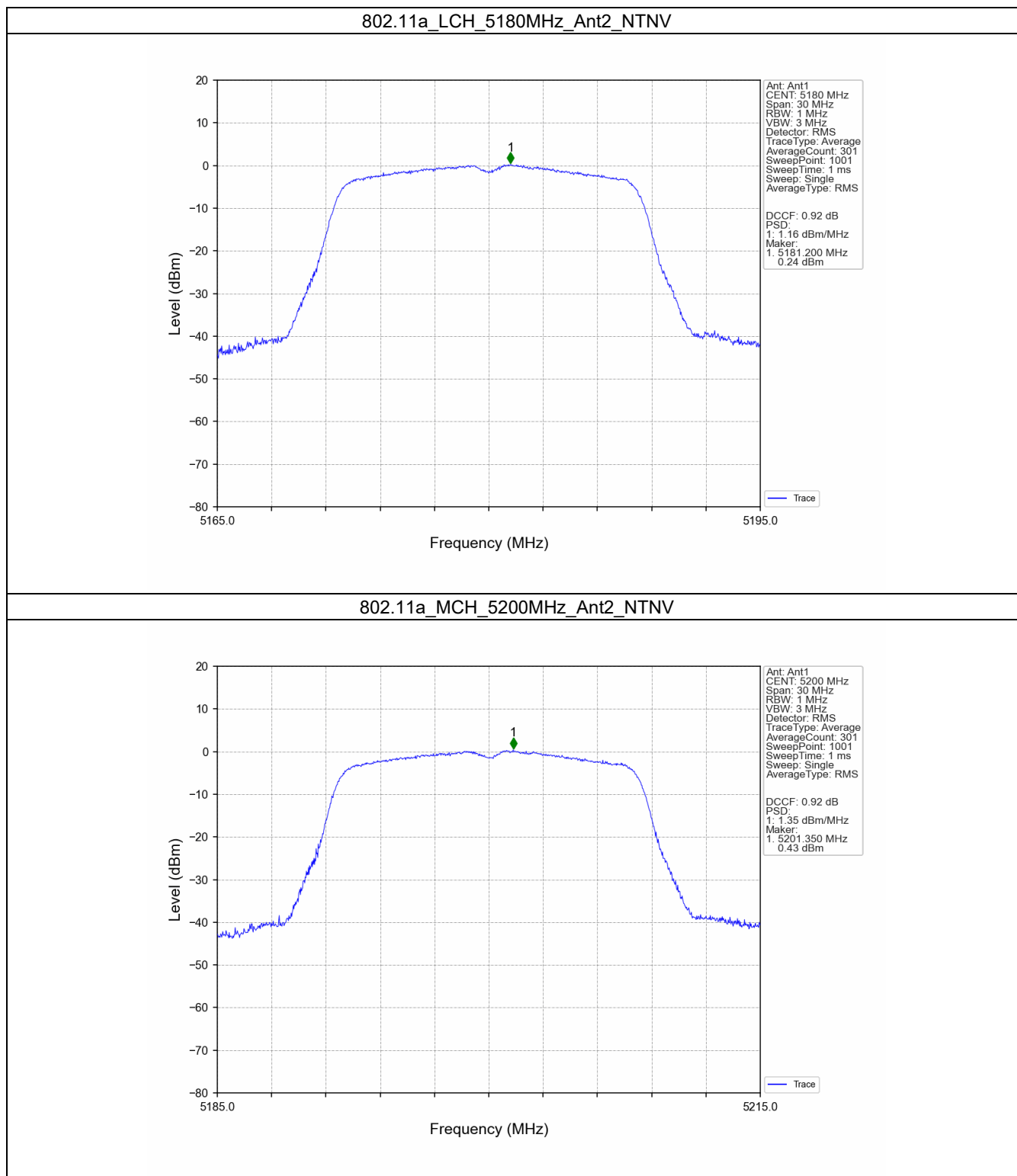
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT2	Limit	
802.11a	SISO	5180	1.16	<=11	Pass
		5200	1.35	<=11	Pass
		5240	2.80	<=11	Pass
802.11n (HT20)	SISO	5180	0.36	<=11	Pass
		5200	0.72	<=11	Pass
		5240	9.49	<=11	Pass
802.11n (HT40)	SISO	5190	-4.11	<=11	Pass
		5230	-3.08	<=11	Pass
802.11ac (VHT20)	SISO	5180	0.38	<=11	Pass
		5200	0.47	<=11	Pass
		5240	2.55	<=11	Pass
802.11ac (VHT40)	SISO	5190	-6.55	<=11	Pass
		5230	-4.89	<=11	Pass
802.11ac (VHT80)	SISO	5210	-8.99	<=11	Pass

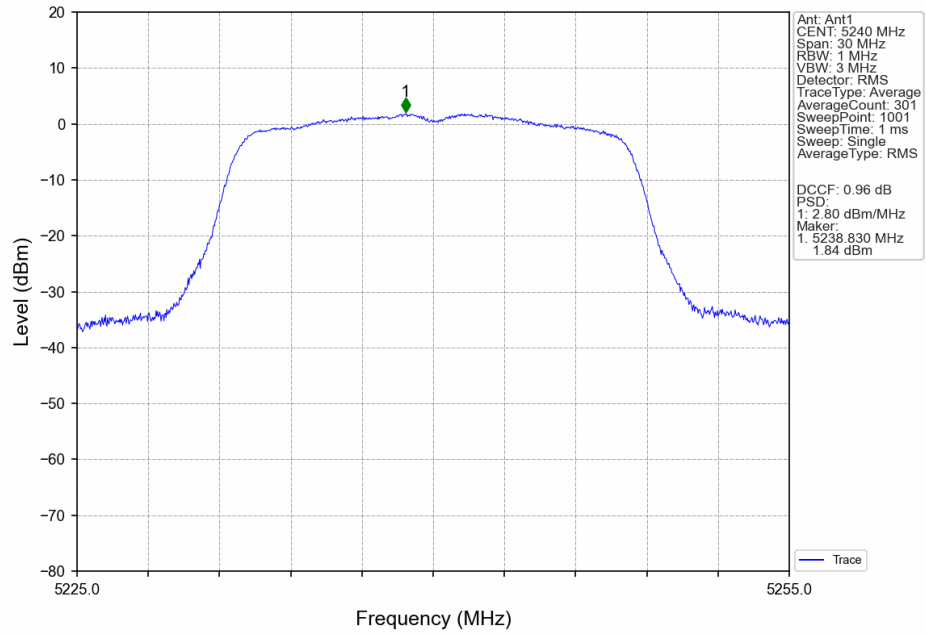
Condition	Mode	Frequency (MHz)	Power Spectral Density (dBm)		ANT1&ANT2 MIMO Power Spectral Density (dBm)	Limit (dBm)
			ANT1	ANT2		
NVNT	n20	5180	0.01	0.36	3.20	<=11
NVNT	n20	5200	0.28	0.72	3.52	<=11
NVNT	n20	5240	2.28	9.49	10.25	<=11
NVNT	n40	5190	-4.94	-4.11	-1.49	<=11
NVNT	n40	5230	-3.36	-3.08	-0.21	<=11
NVNT	ac20	5180	-0.02	0.38	3.19	<=11
NVNT	ac20	5200	0.18	0.47	3.34	<=11
NVNT	ac20	5240	2.38	2.55	5.48	<=11
NVNT	ac40	5190	-6.61	-6.55	-3.57	<=11
NVNT	ac40	5230	-4.32	-4.89	-1.59	<=11
NVNT	ac80	5210	-8.92	-8.99	-5.94	<=11

4.2 Test Graph

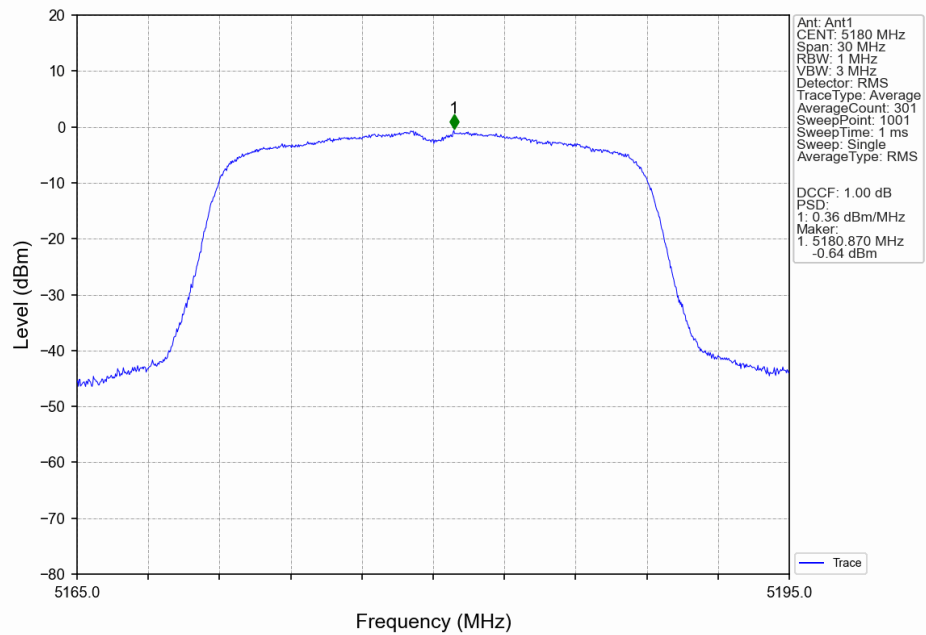
4.2.1 PSD



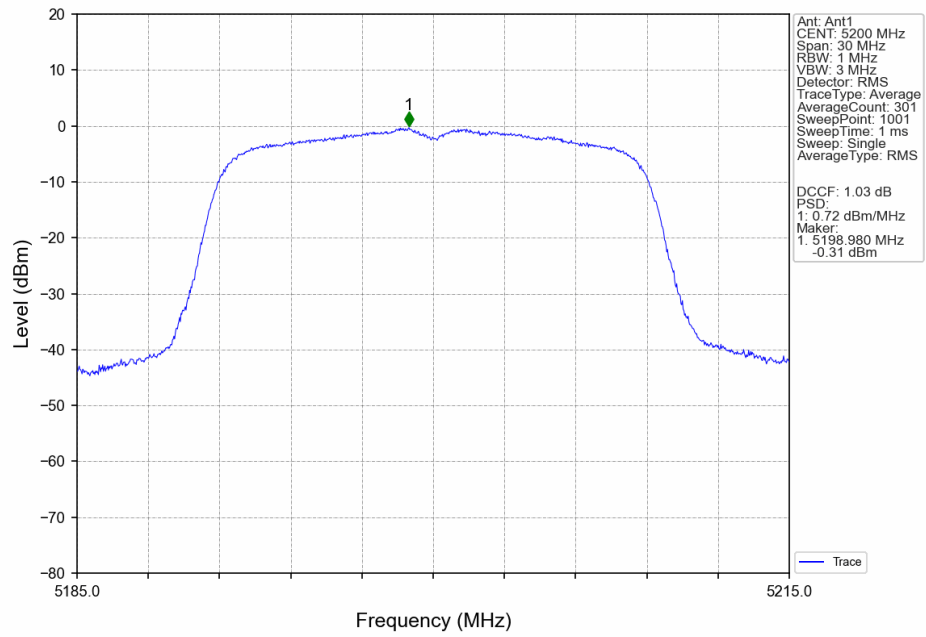
802.11a_HCH_5240MHz_Ant2_NTNV



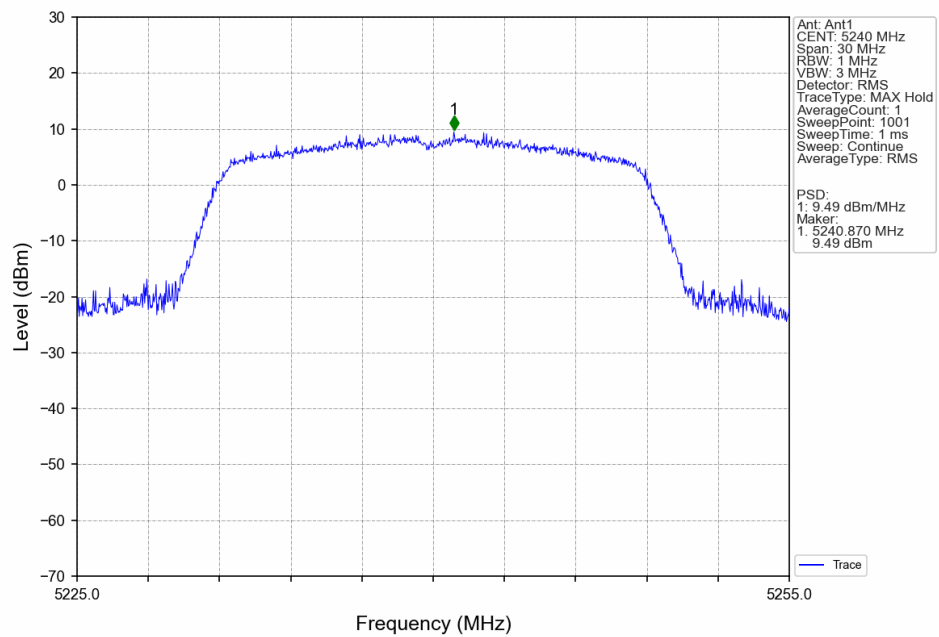
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



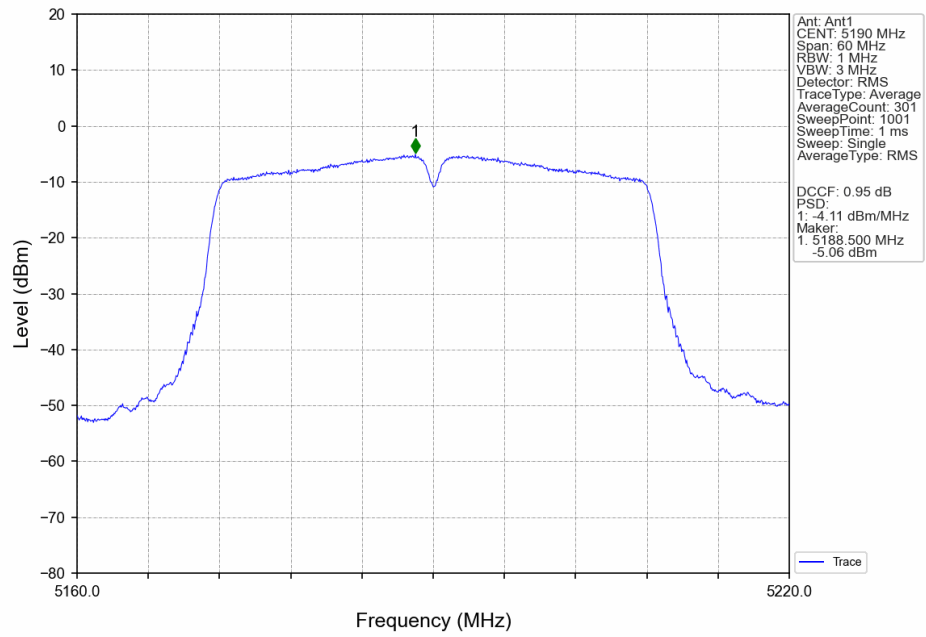
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



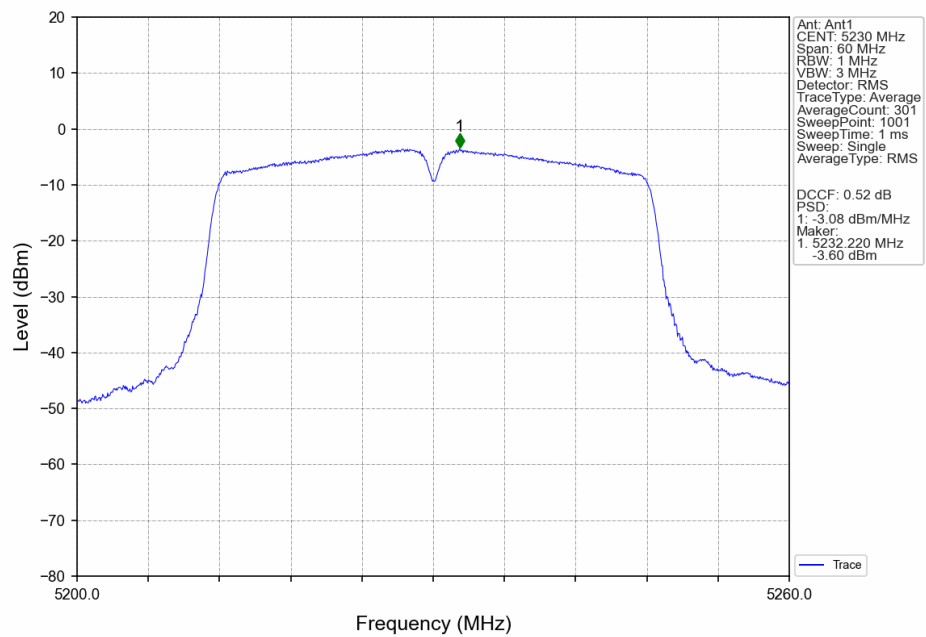
802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



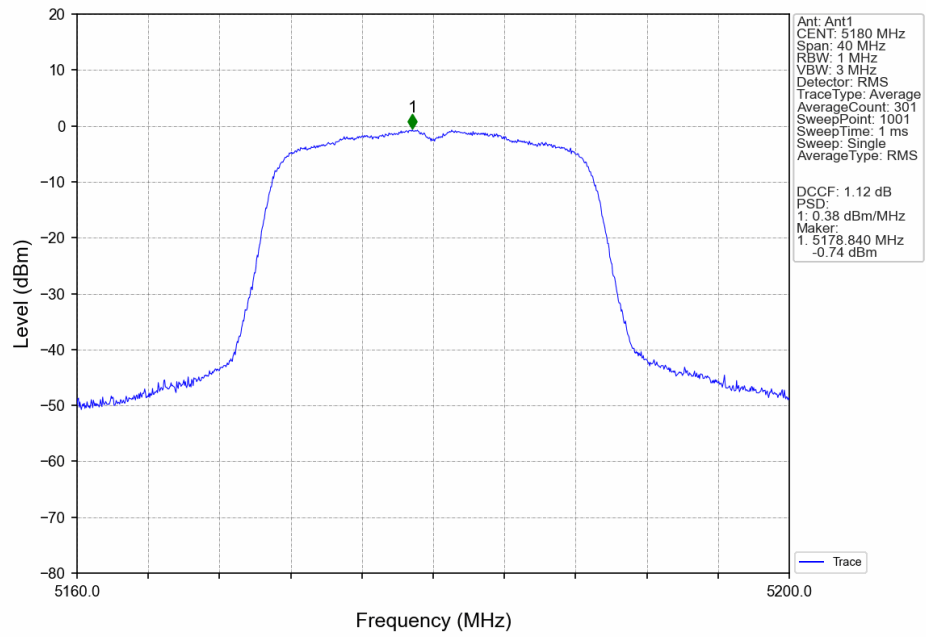
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



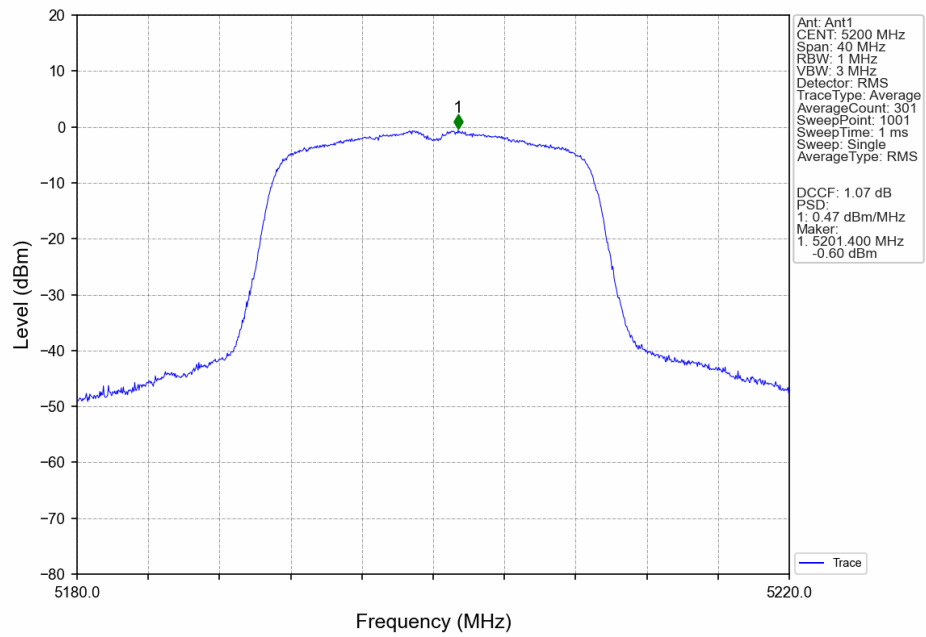
802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



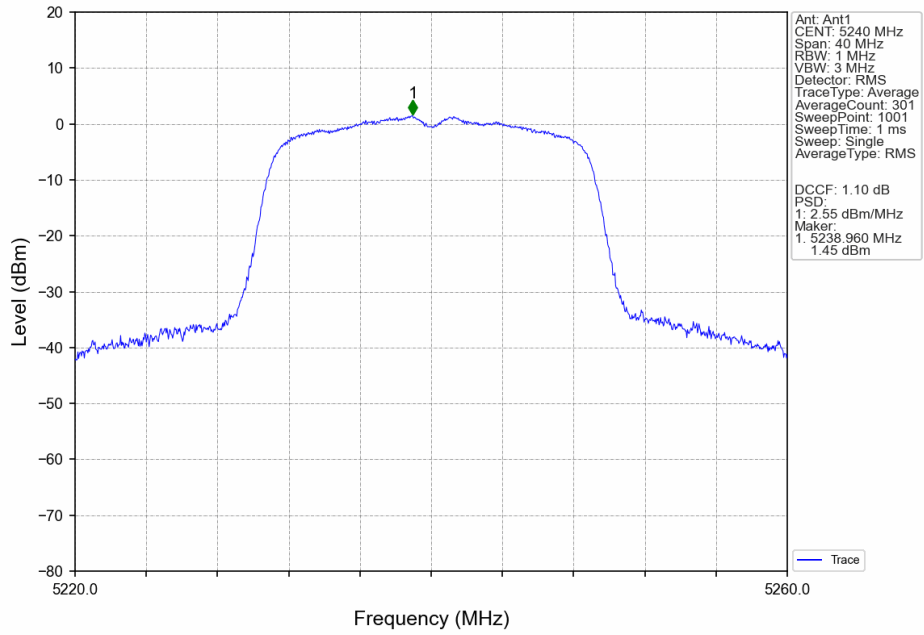
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



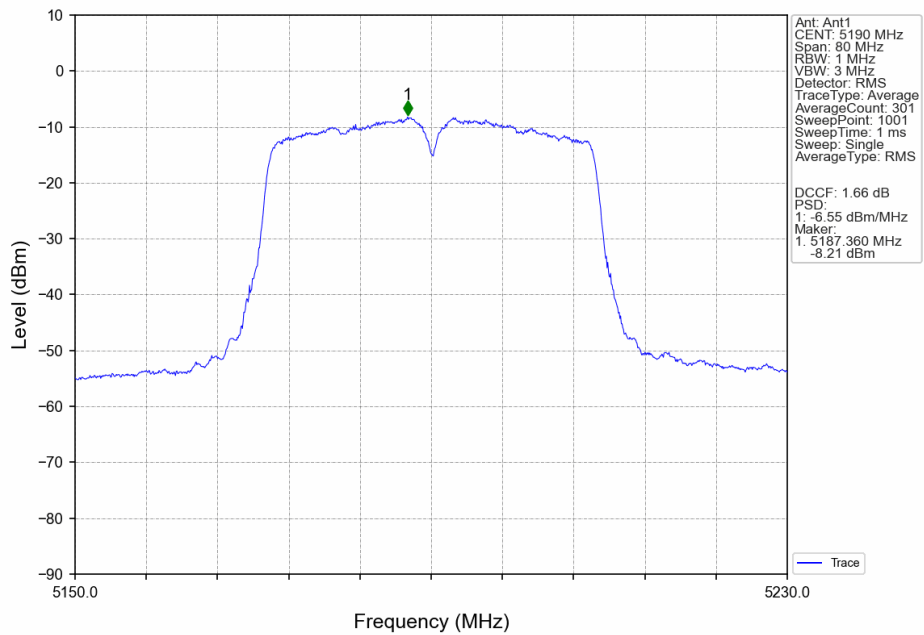
802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



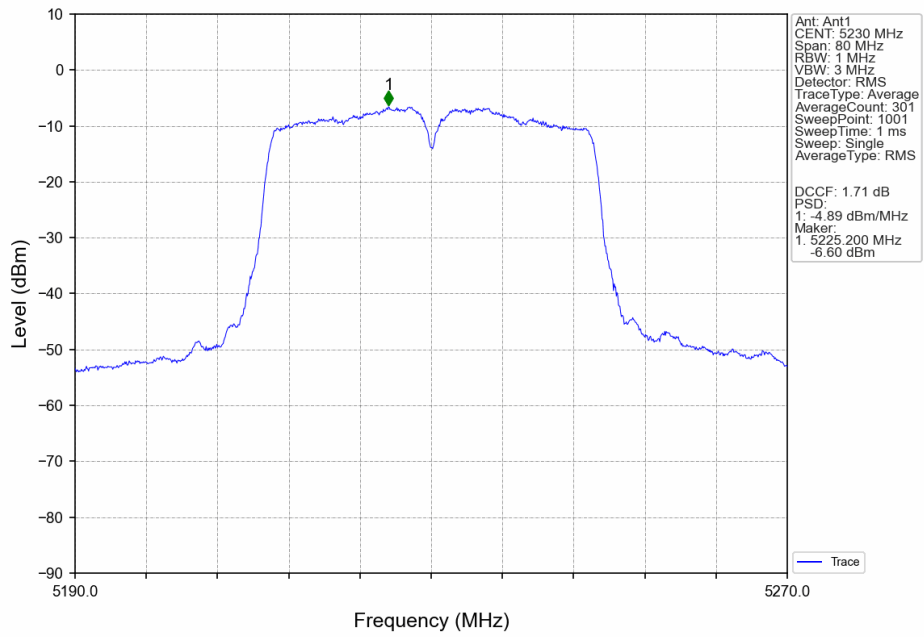
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV

