

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

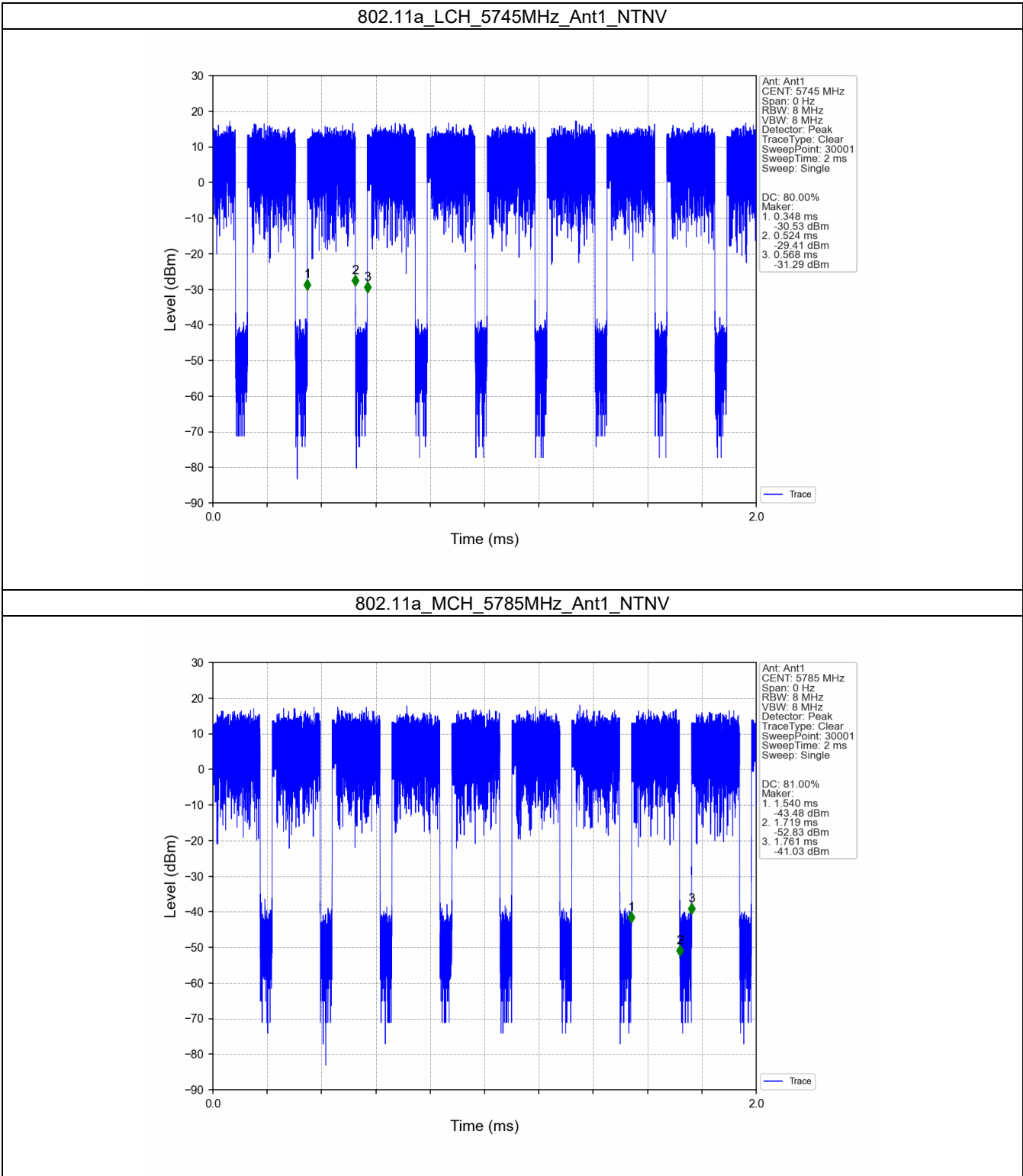
1.1 Test Result

1.1.1 Ant1

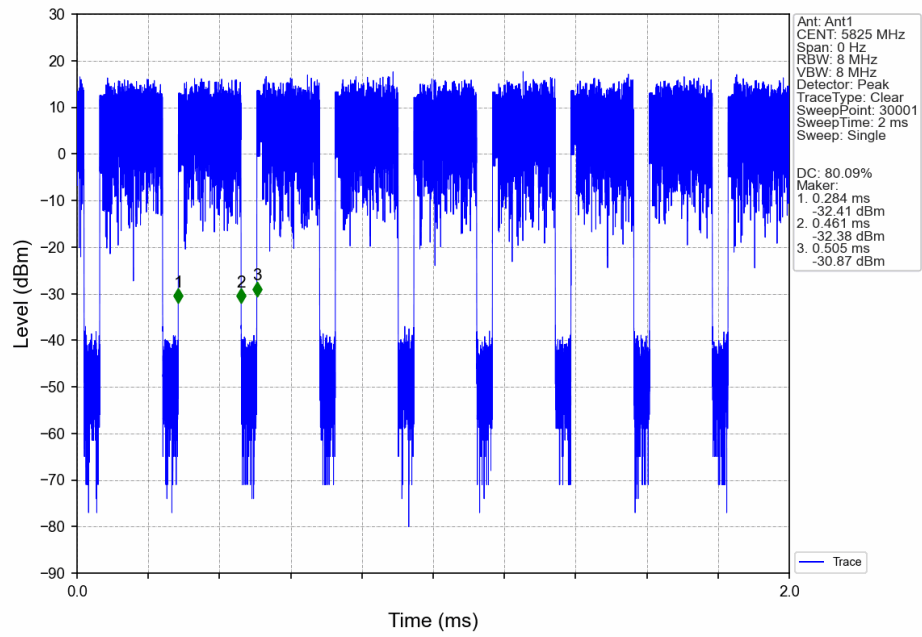
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	0.176	0.220	80.00	0.97	0.12
		5785	0.179	0.221	81.00	0.92	0.12
		5825	0.177	0.221	80.09	0.96	0.10
802.11n (HT20)	SISO	5745	0.165	0.209	78.95	1.03	0.10
		5785	0.164	0.208	78.85	1.03	0.09
		5825	0.166	0.208	79.81	0.98	0.15
802.11n (HT40)	SISO	5755	0.100	0.144	69.44	1.58	0.07
		5795	0.100	0.144	69.44	1.58	0.07
802.11ac (VHT20)	SISO	5745	0.151	0.193	78.24	1.07	0.12
		5785	0.148	0.192	77.08	1.13	0.17
		5825	0.149	0.193	77.20	1.12	0.11
802.11ac (VHT40)	SISO	5755	0.090	0.132	68.18	1.66	0.15
		5795	0.093	0.136	68.38	1.65	0.07
802.11ac (VHT80)	SISO	5775	0.073	0.116	62.93	2.01	0.06

1.2 Test Graph

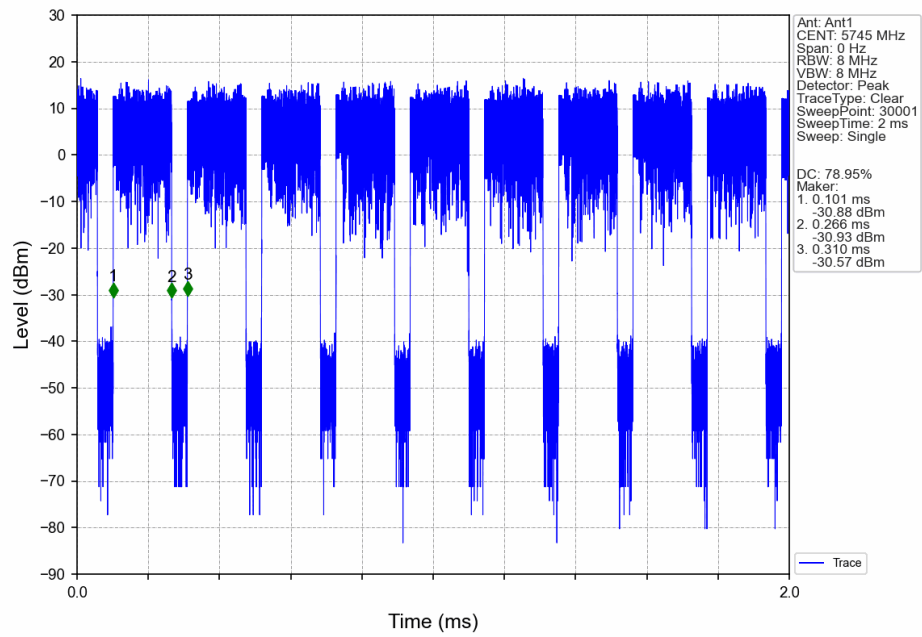
1.2.1 Ant1



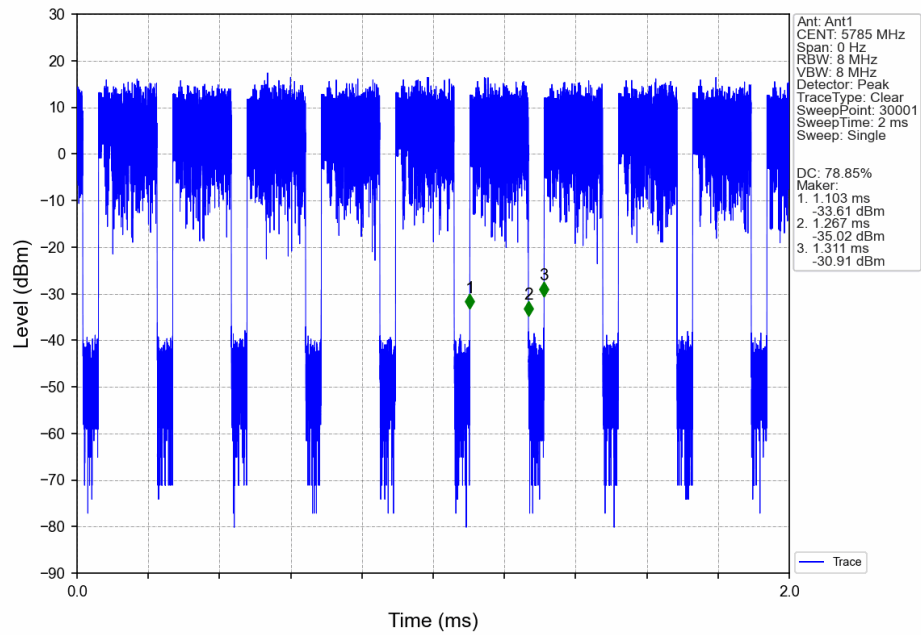
802.11a_HCH_5825MHz_Ant1_NTNV



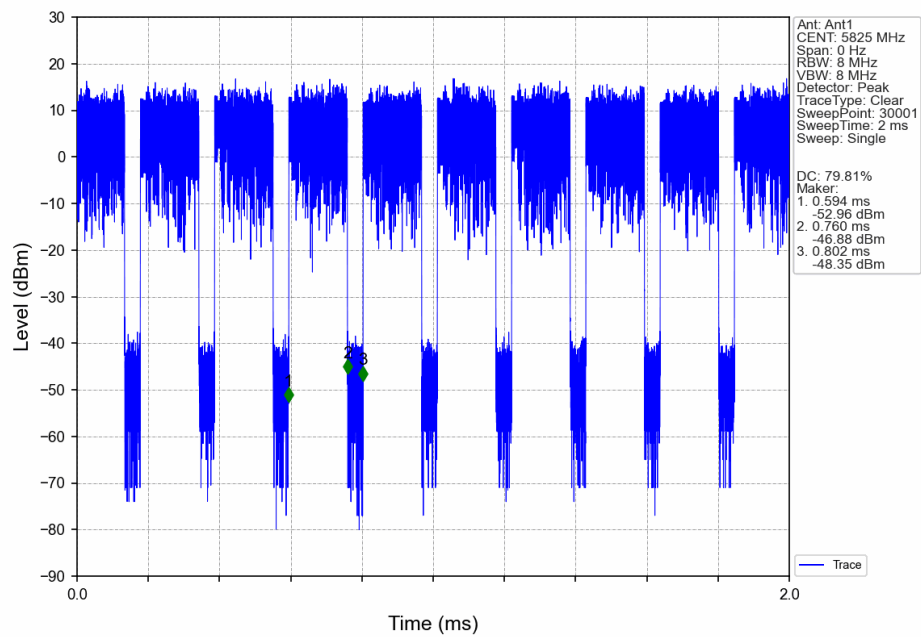
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



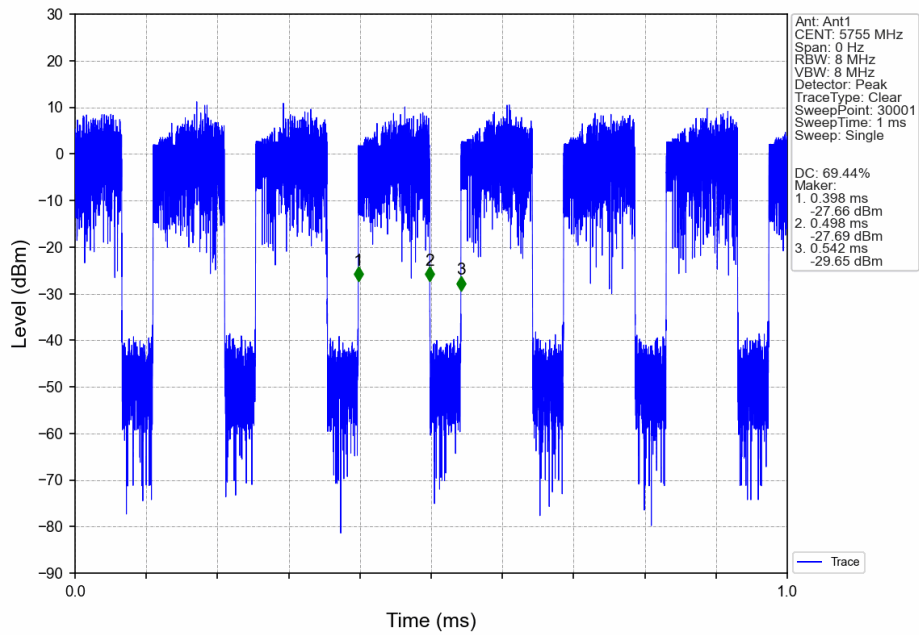
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



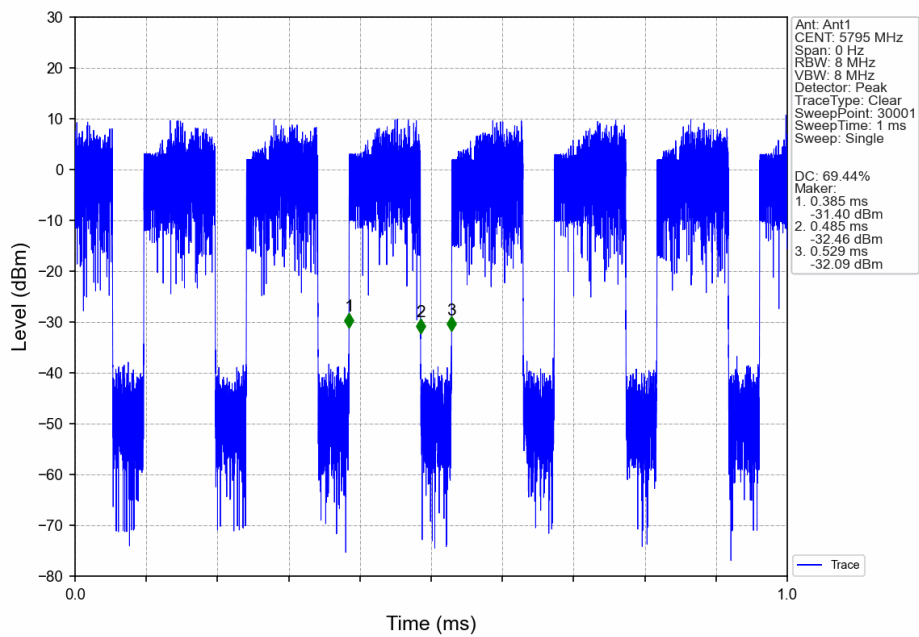
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



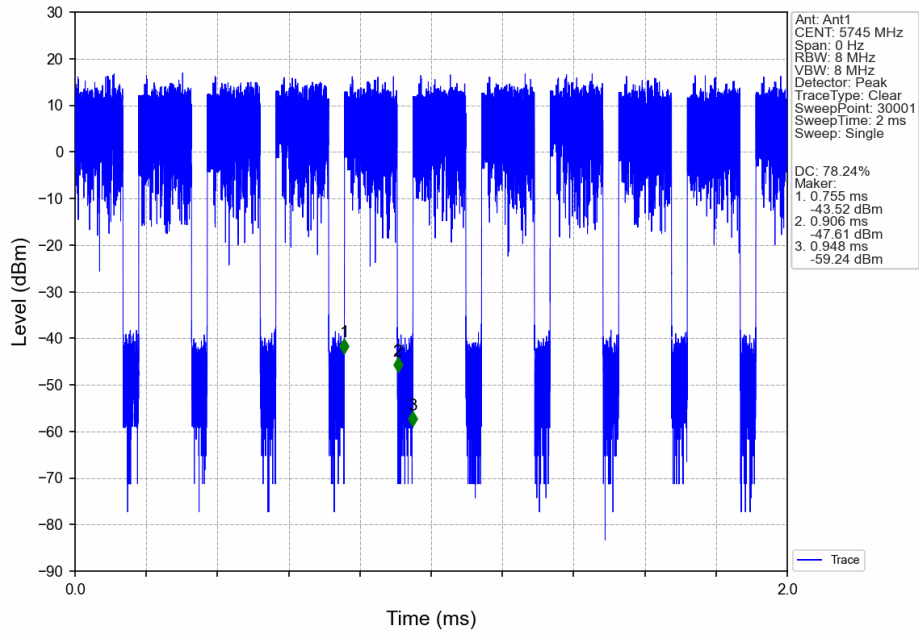
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



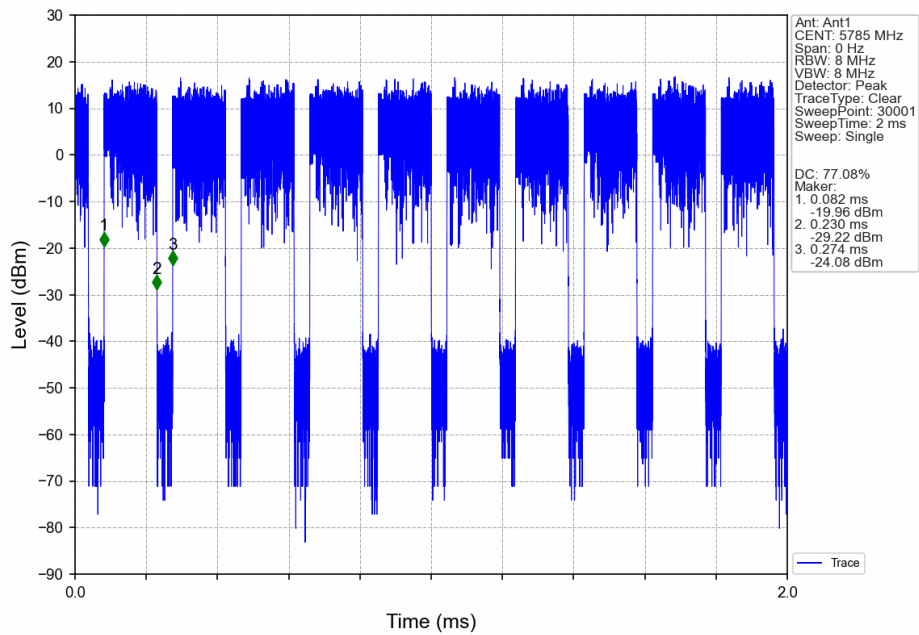
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



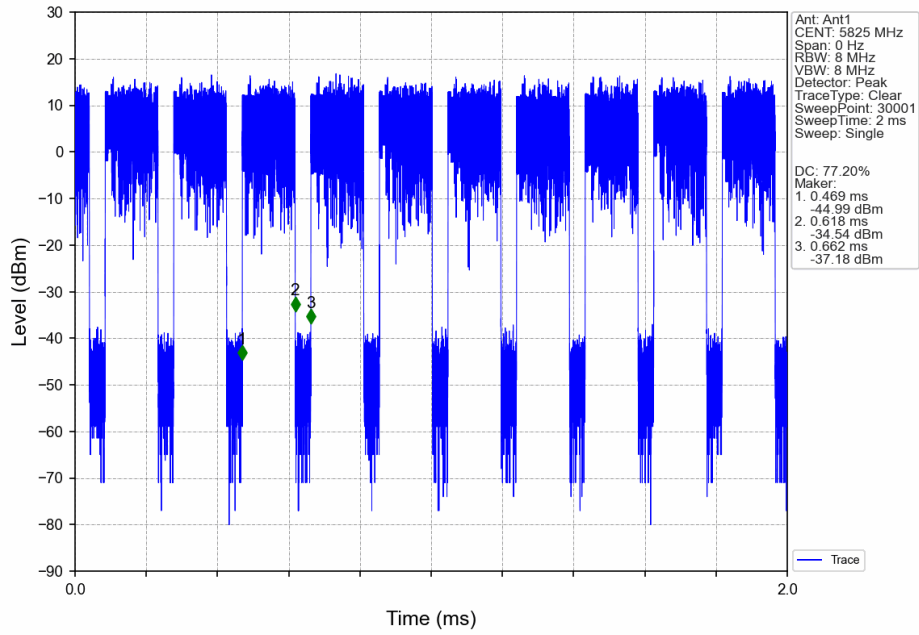
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



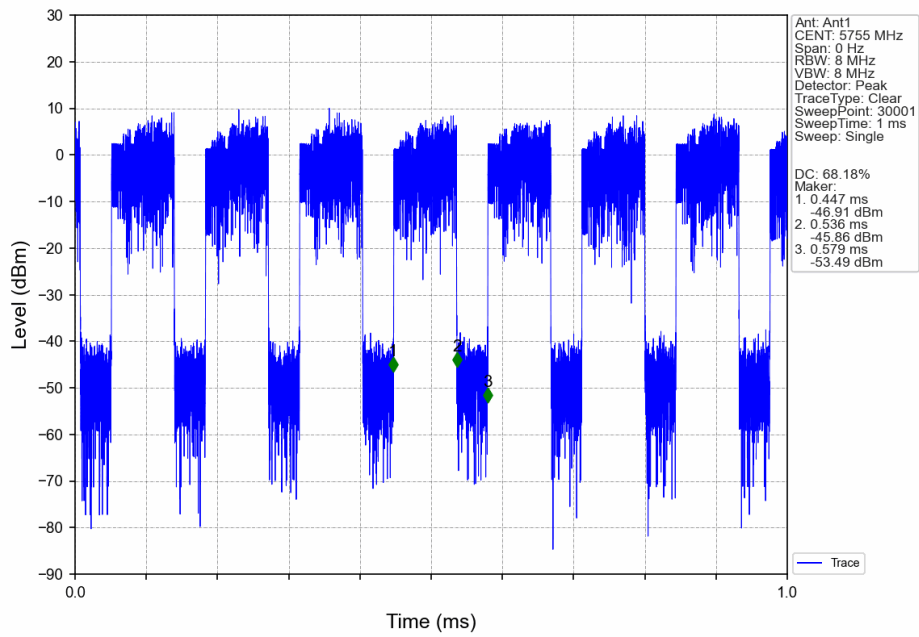
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



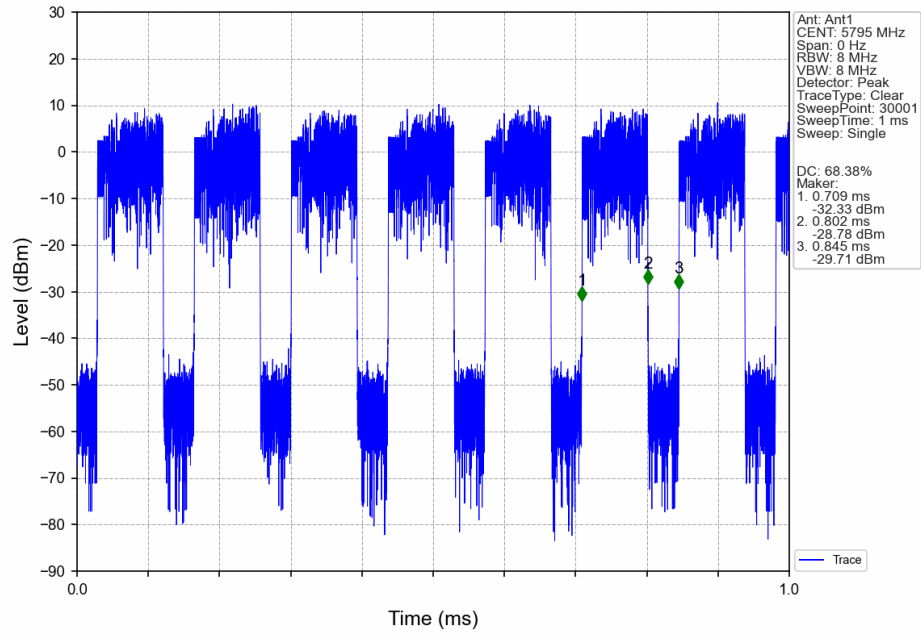
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



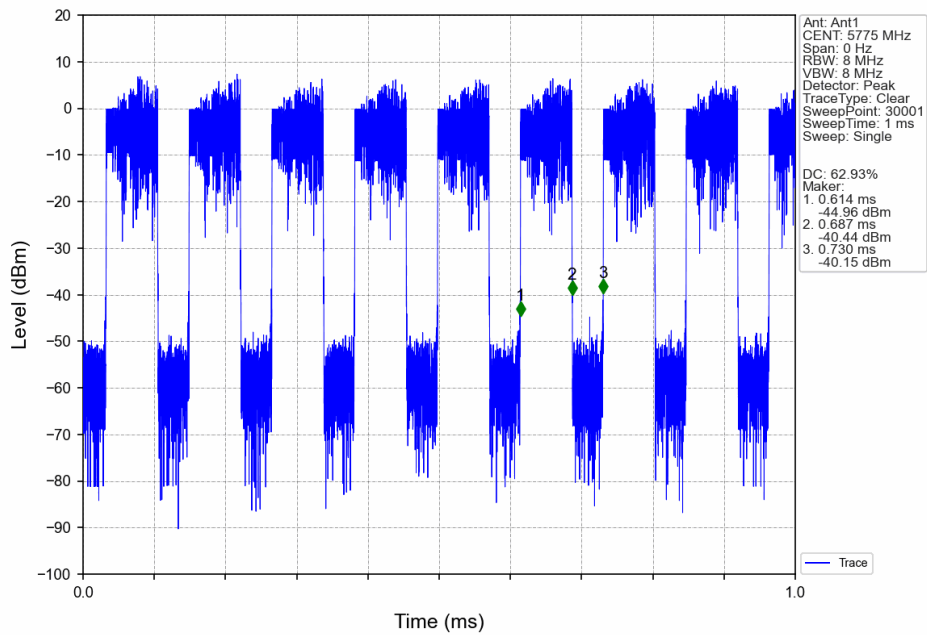
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

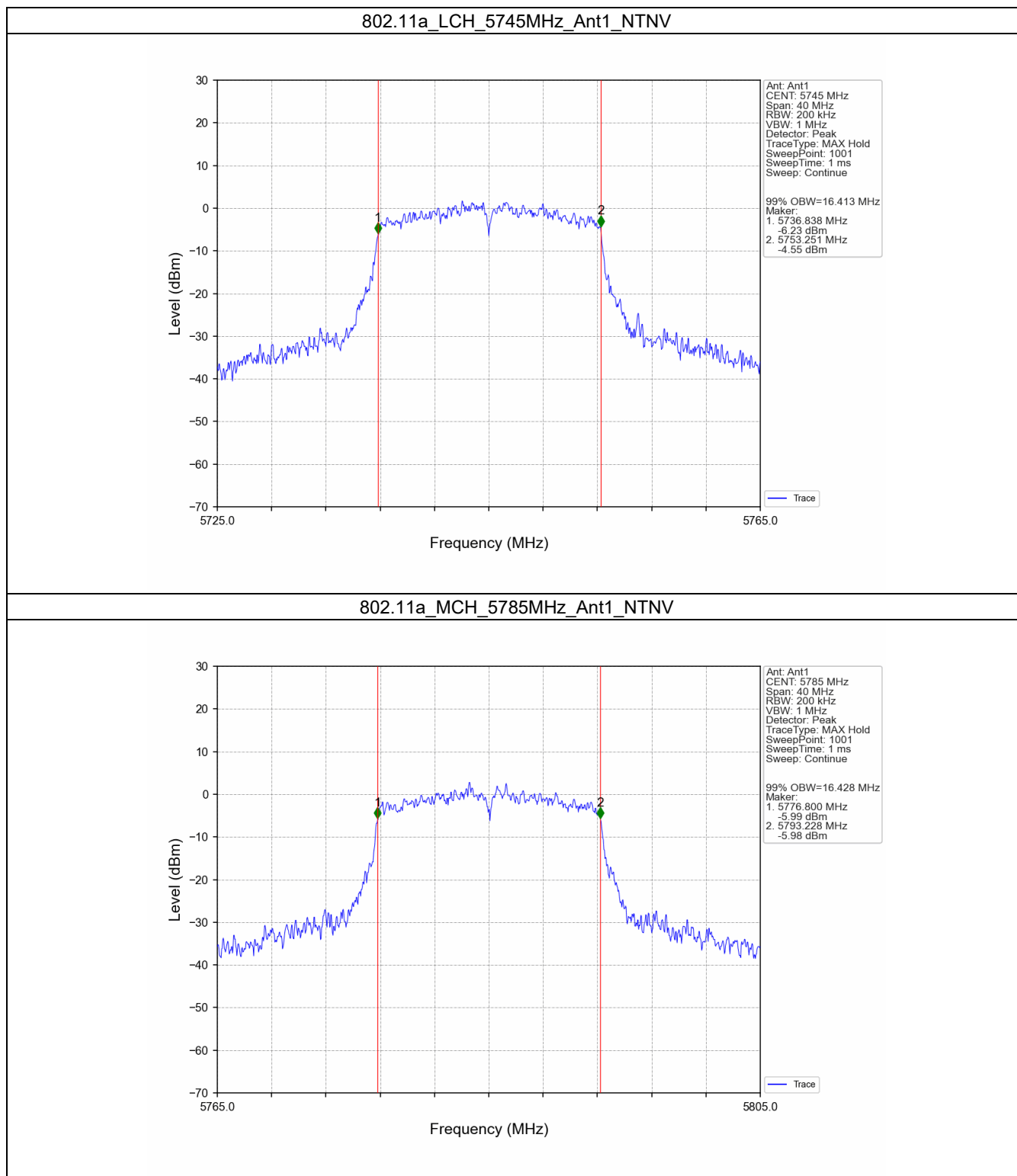
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.413	/	Pass
		5785	1	16.428	/	Pass
		5825	1	16.482	/	Pass
802.11n (HT20)	SISO	5745	1	17.581	/	Pass
		5785	1	17.582	/	Pass
		5825	1	17.578	/	Pass
802.11n (HT40)	SISO	5755	1	36.214	/	Pass
		5795	1	36.133	/	Pass
802.11ac (VHT20)	SISO	5745	1	17.571	/	Pass
		5785	1	17.587	/	Pass
		5825	1	17.603	/	Pass
802.11ac (VHT40)	SISO	5755	1	36.170	/	Pass
		5795	1	36.104	/	Pass
802.11ac (VHT80)	SISO	5775	1	75.432	/	Pass

2.1.2 6dB BW

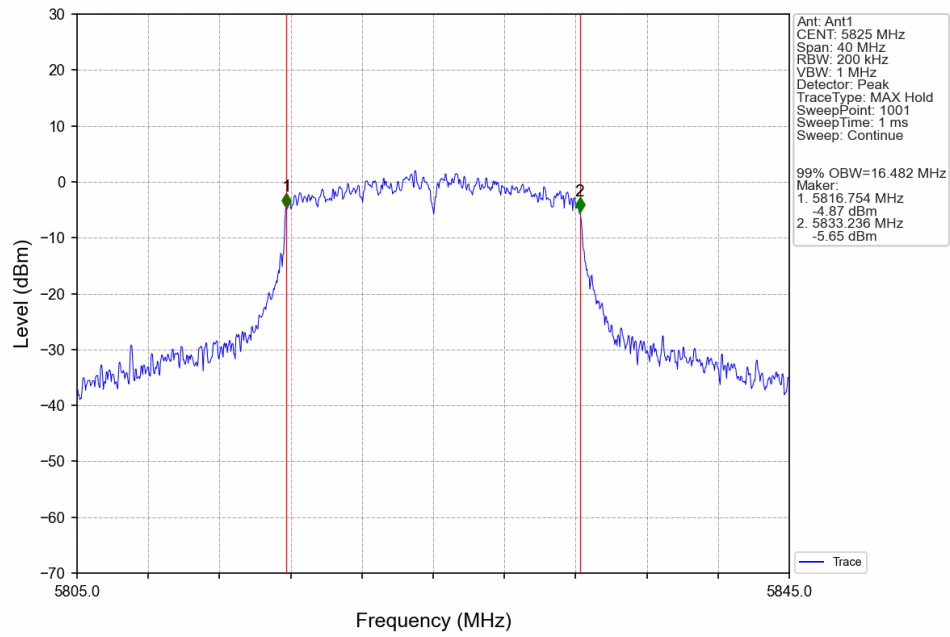
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.927	≥ 0.5	Pass
		5785	1	15.655	≥ 0.5	Pass
		5825	1	15.442	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	15.155	≥ 0.5	Pass
		5785	1	16.112	≥ 0.5	Pass
		5825	1	15.750	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.146	≥ 0.5	Pass
		5795	1	35.155	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.155	≥ 0.5	Pass
		5785	1	15.161	≥ 0.5	Pass
		5825	1	16.295	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.155	≥ 0.5	Pass
		5795	1	35.152	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.126	≥ 0.5	Pass

2.2 Test Graph

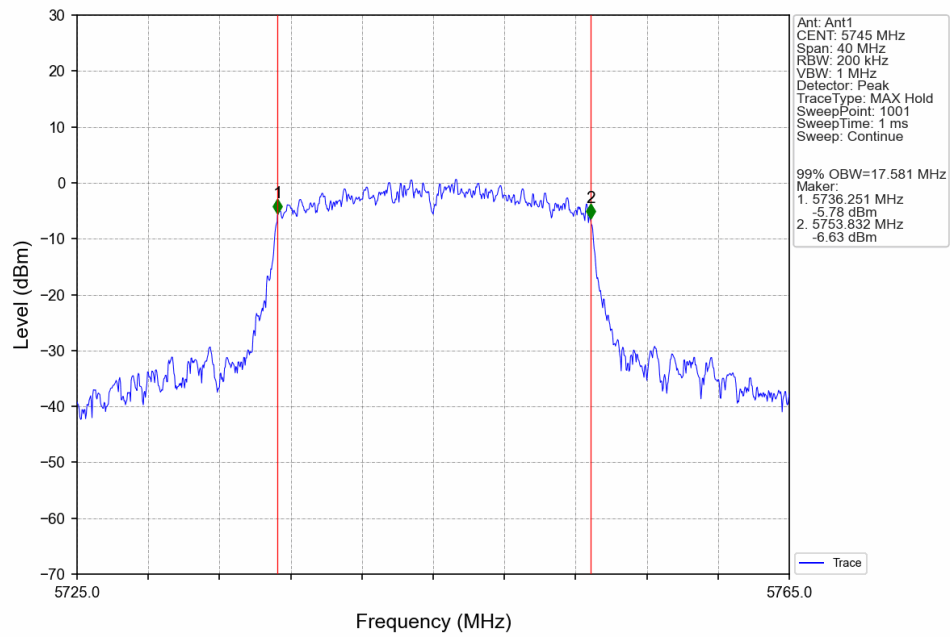
2.2.1 OBW



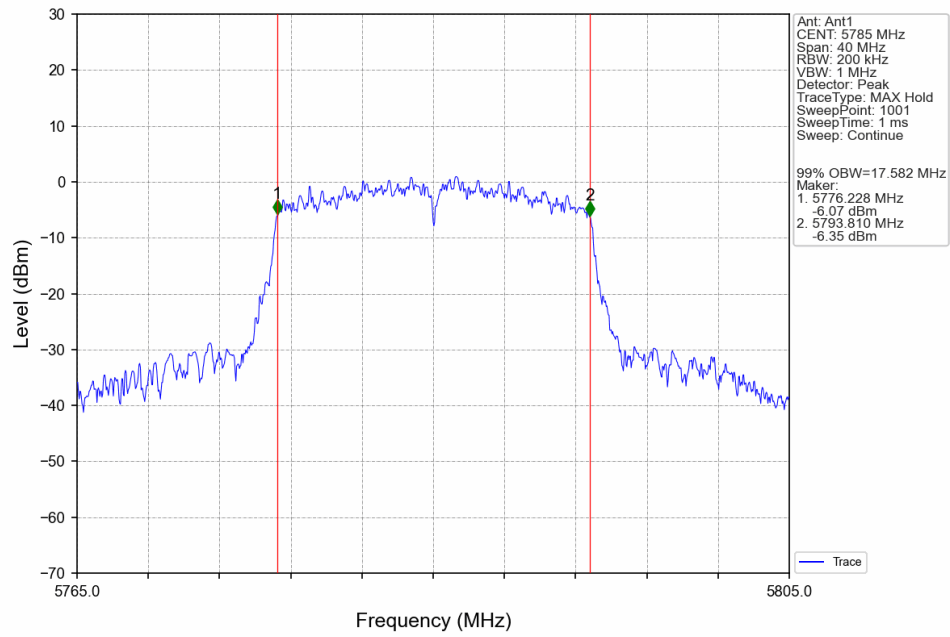
802.11a_HCH_5825MHz_Ant1_NTNV



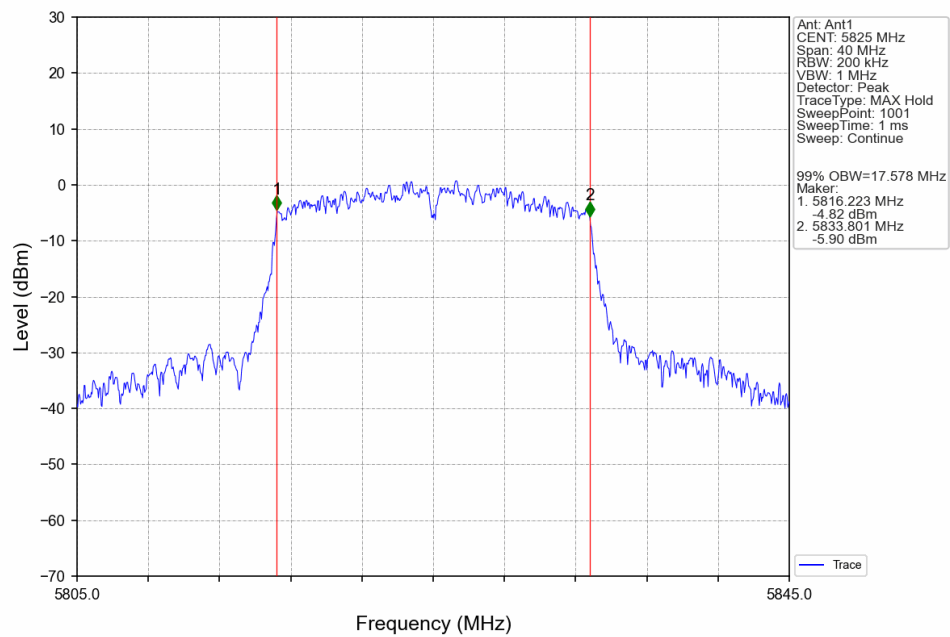
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



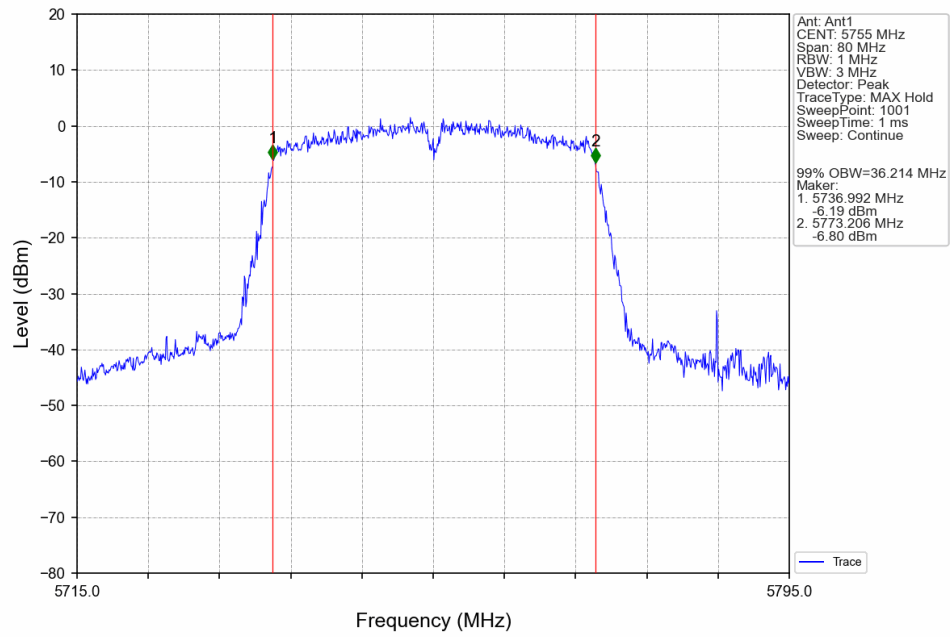
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



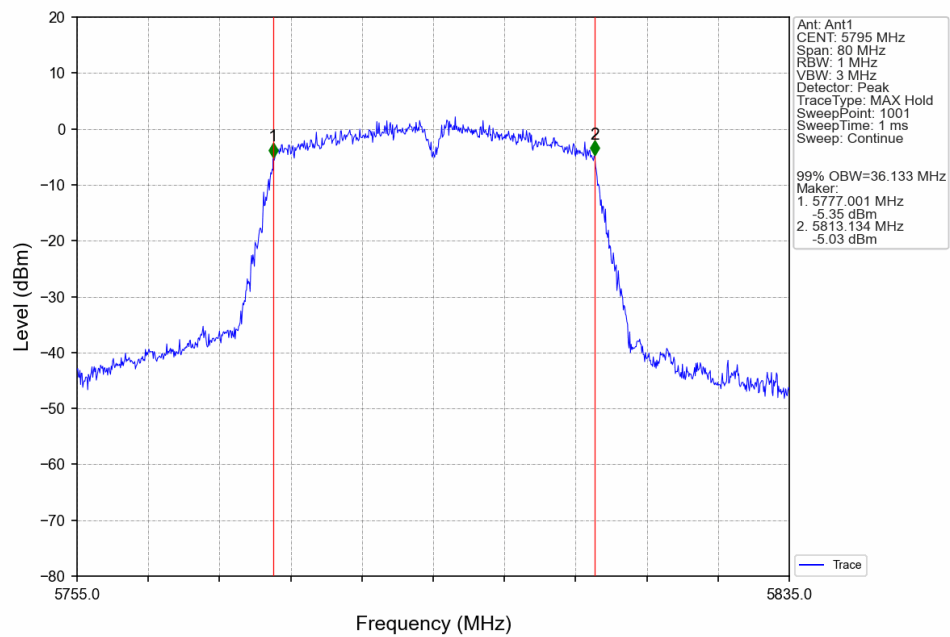
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



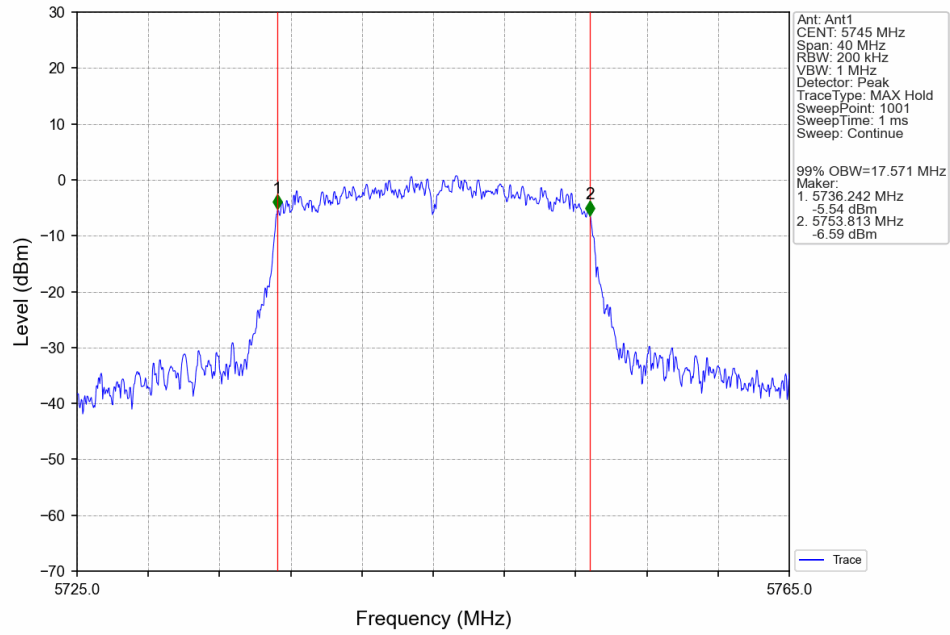
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



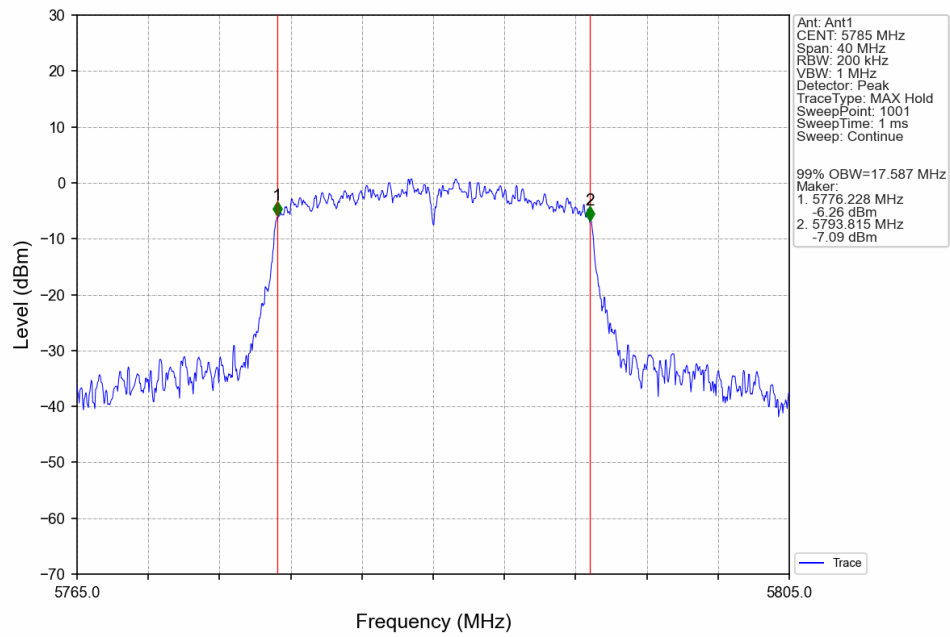
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



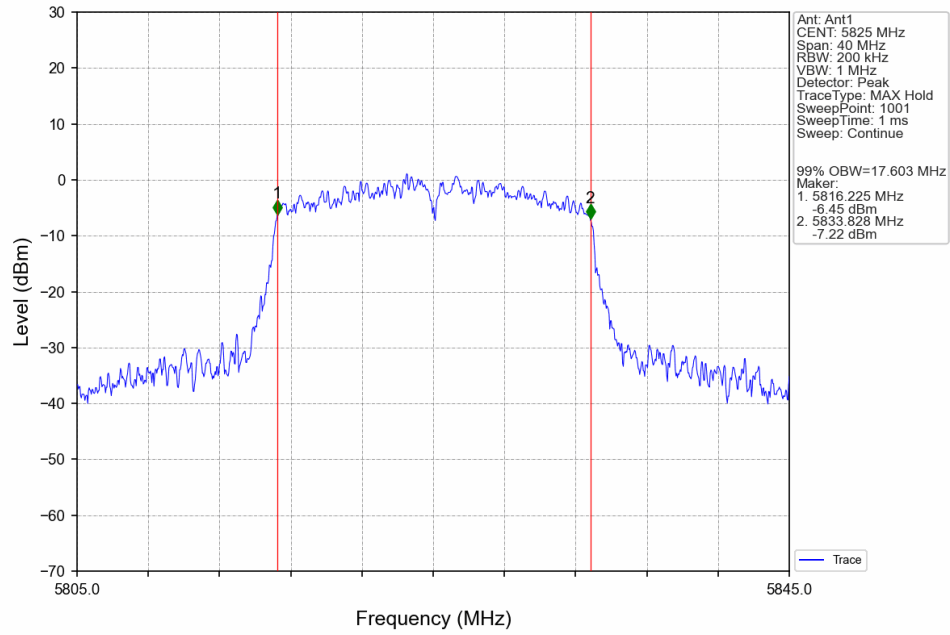
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



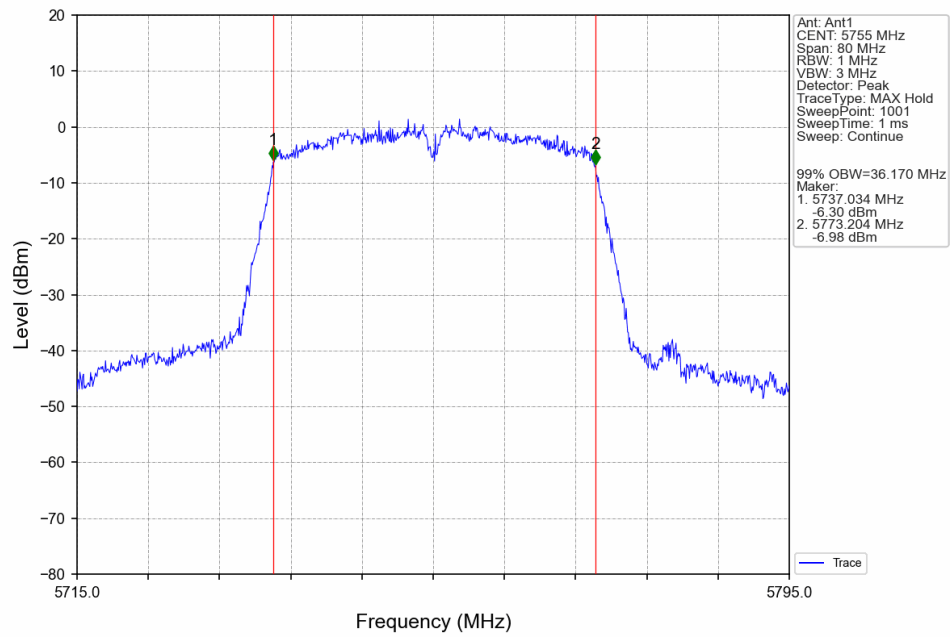
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



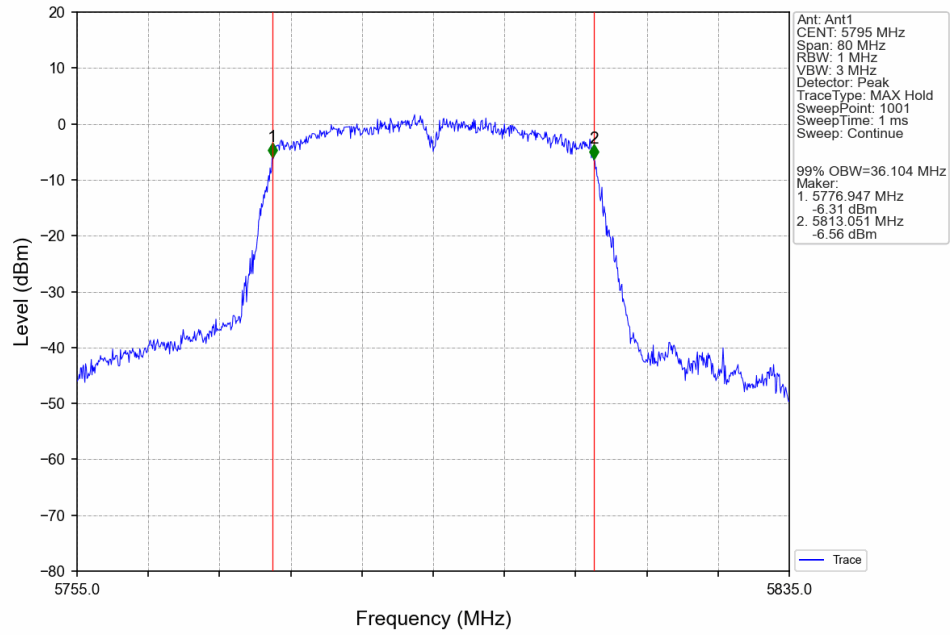
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



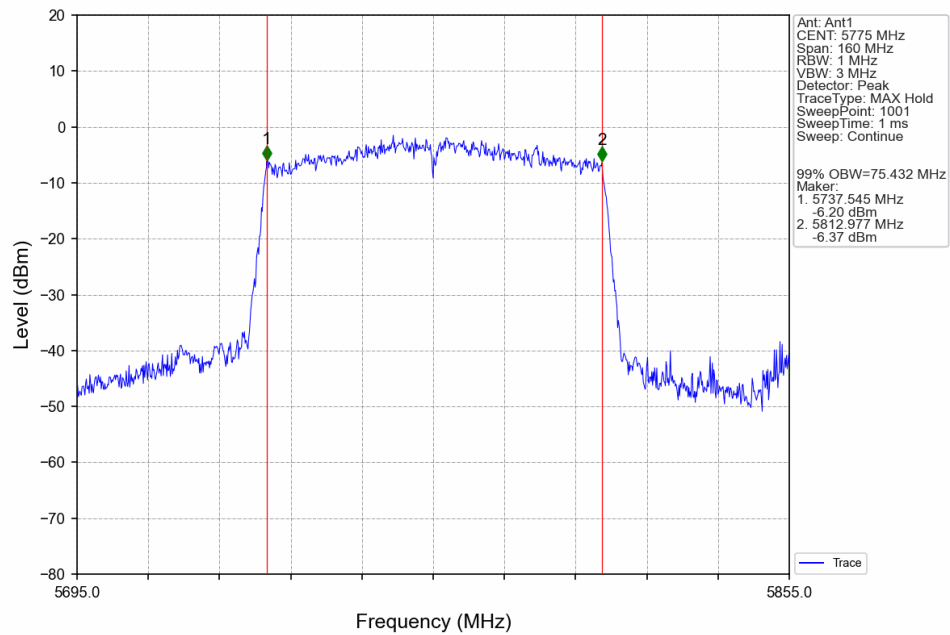
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



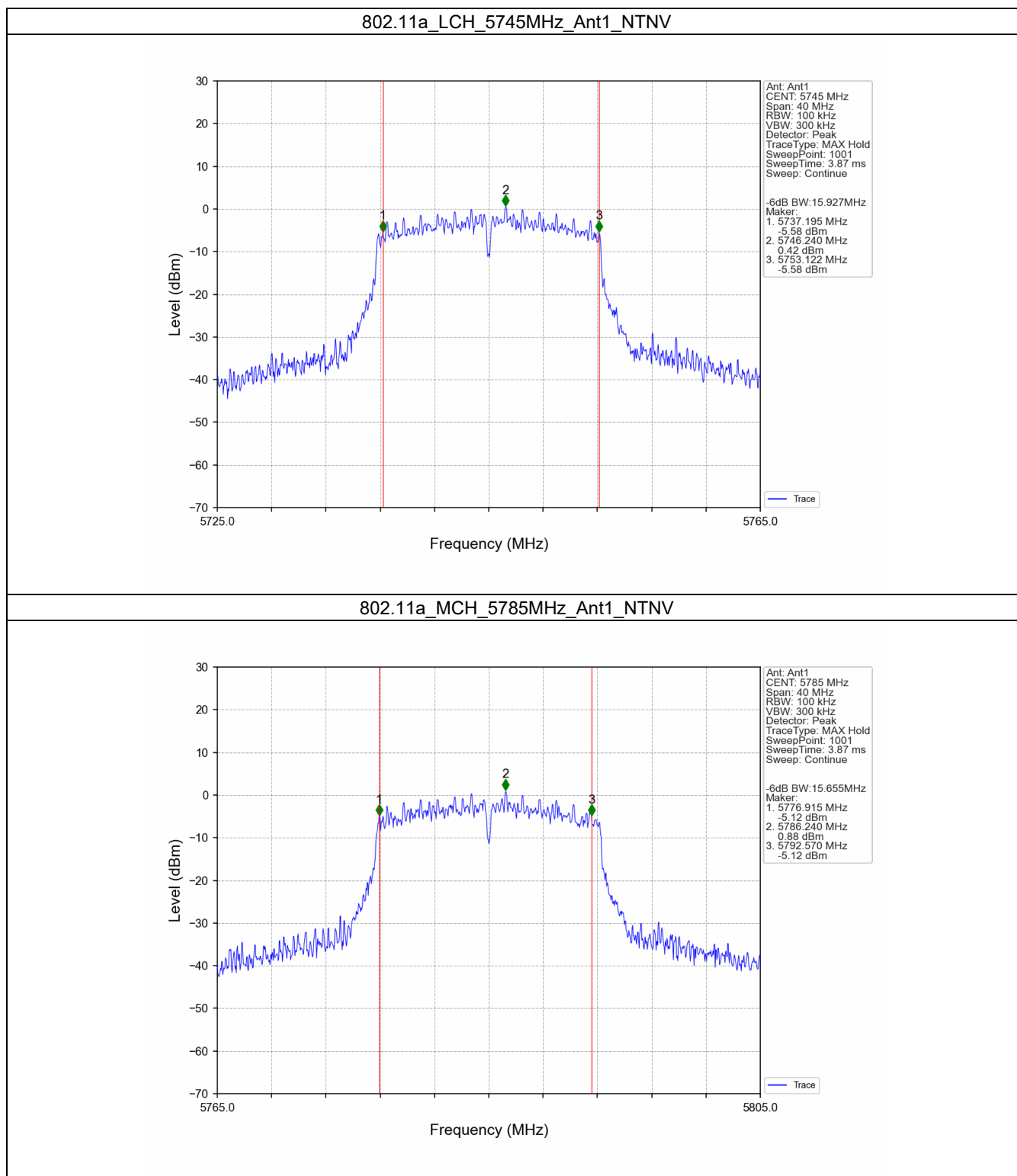
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



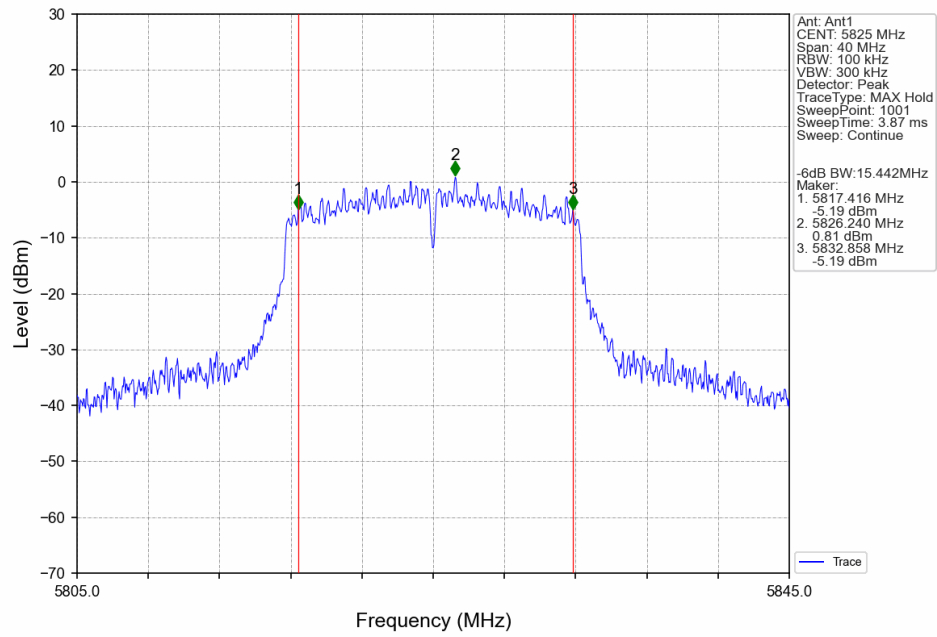
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



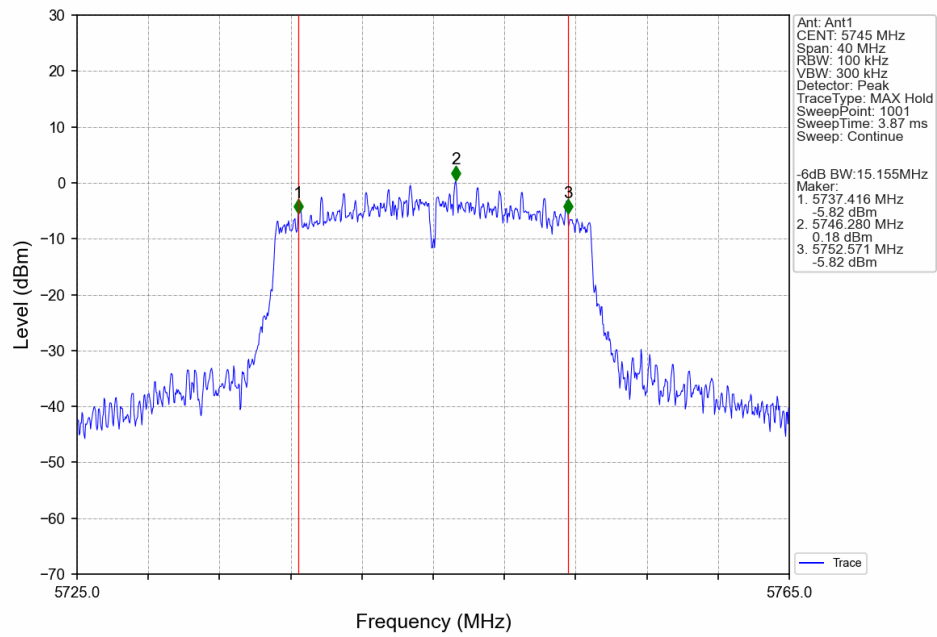
2.2.2 6dB BW



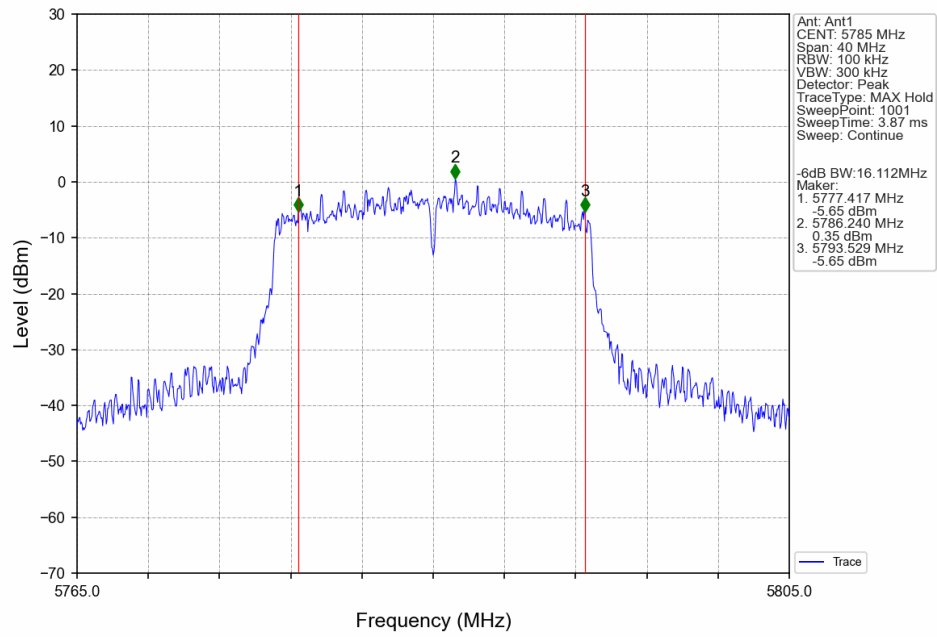
802.11a_HCH_5825MHz_Ant1_NTNV



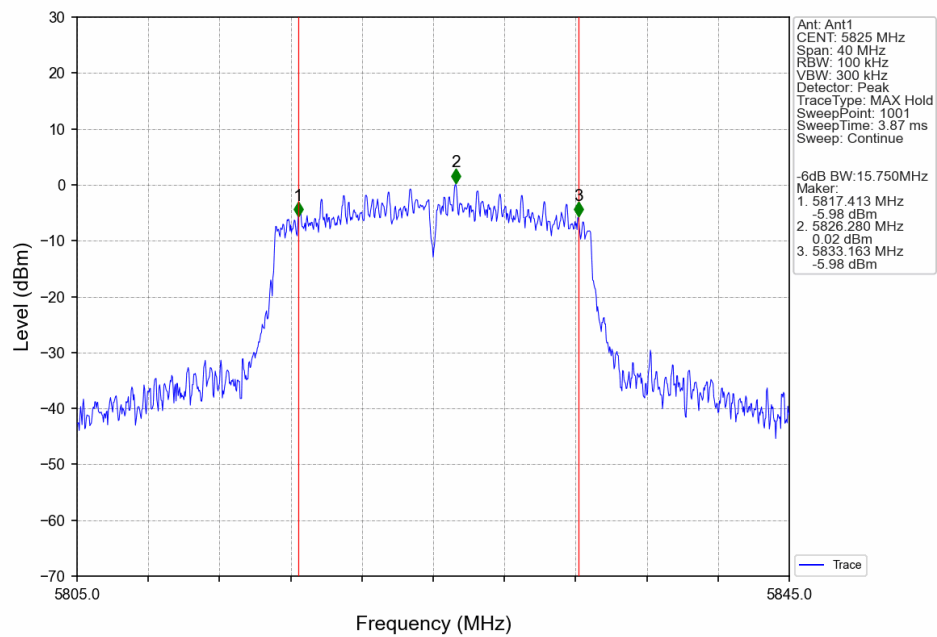
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



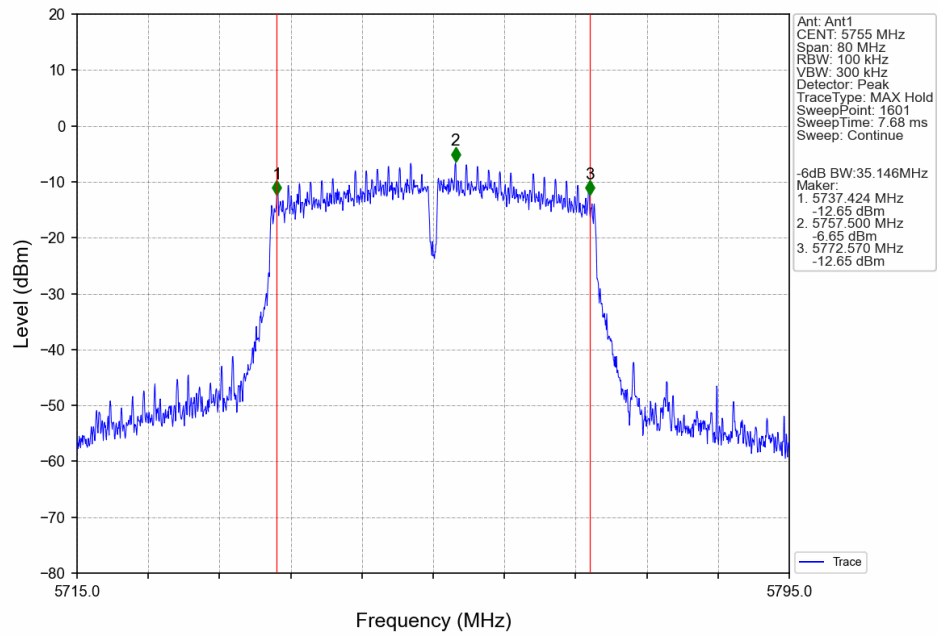
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



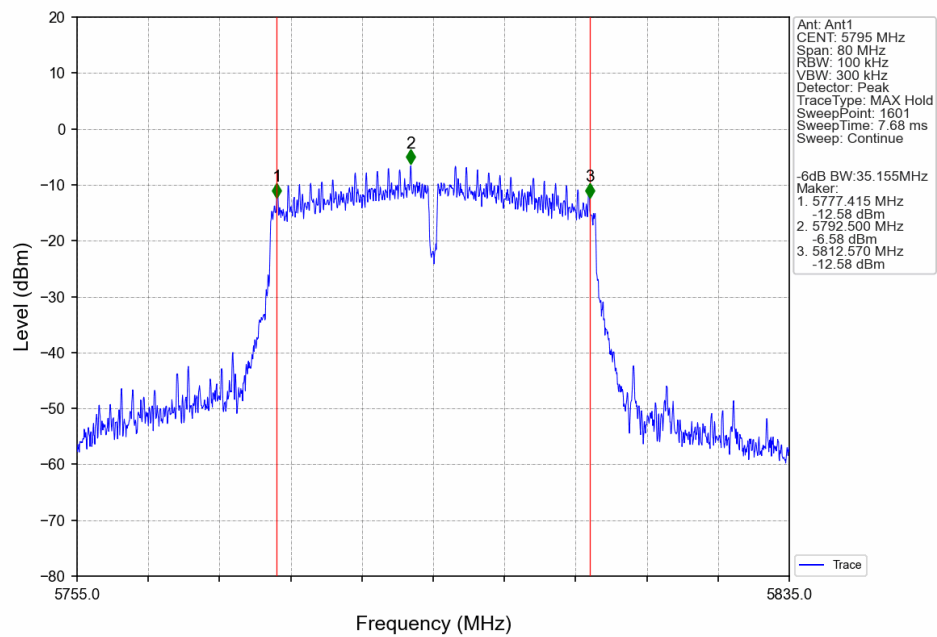
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



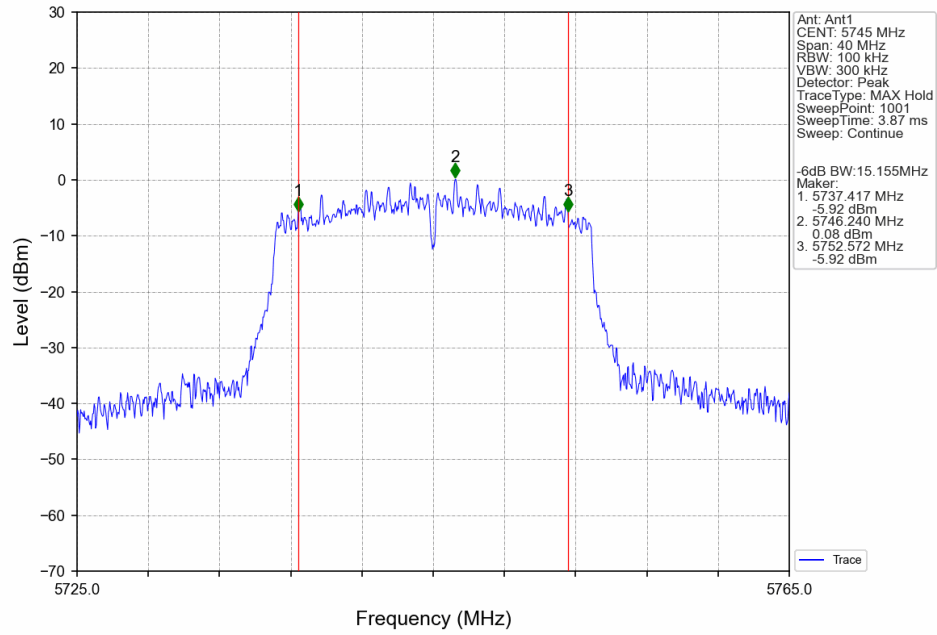
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



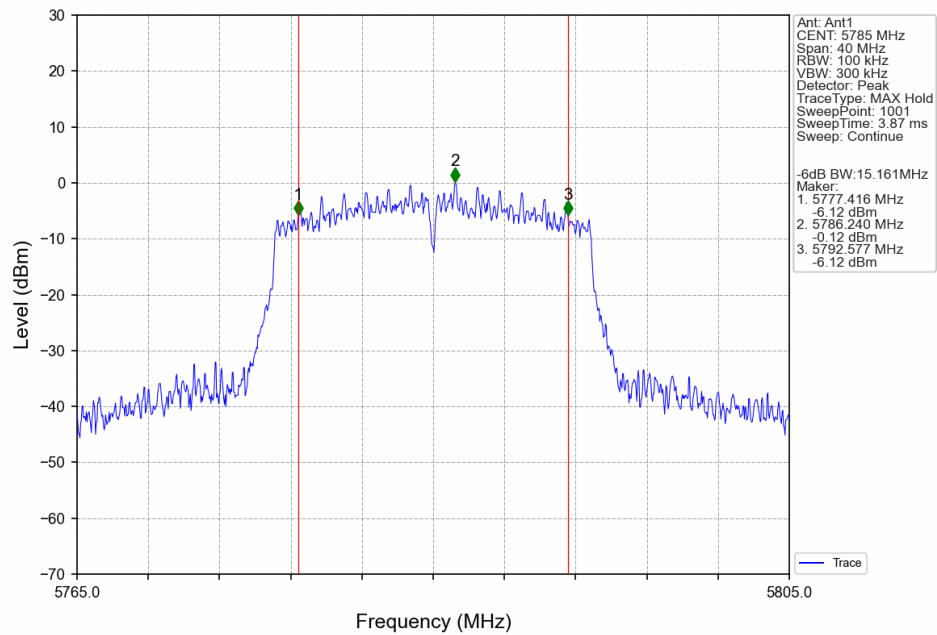
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



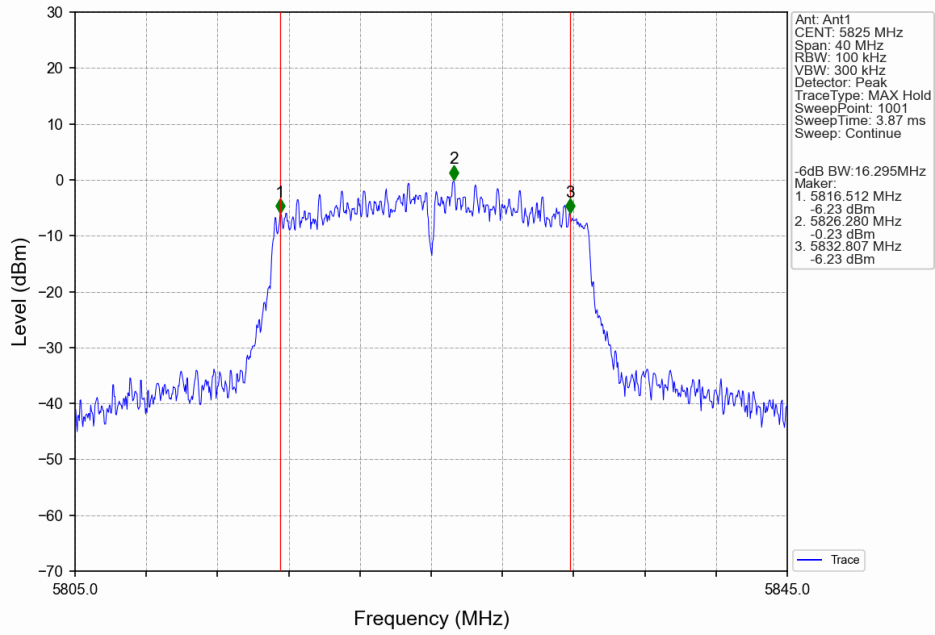
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



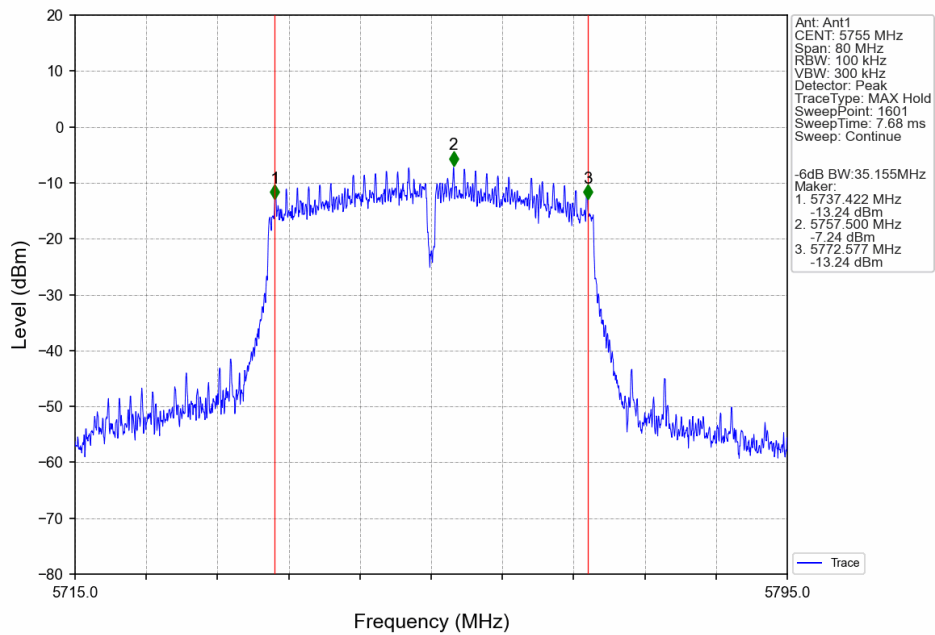
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



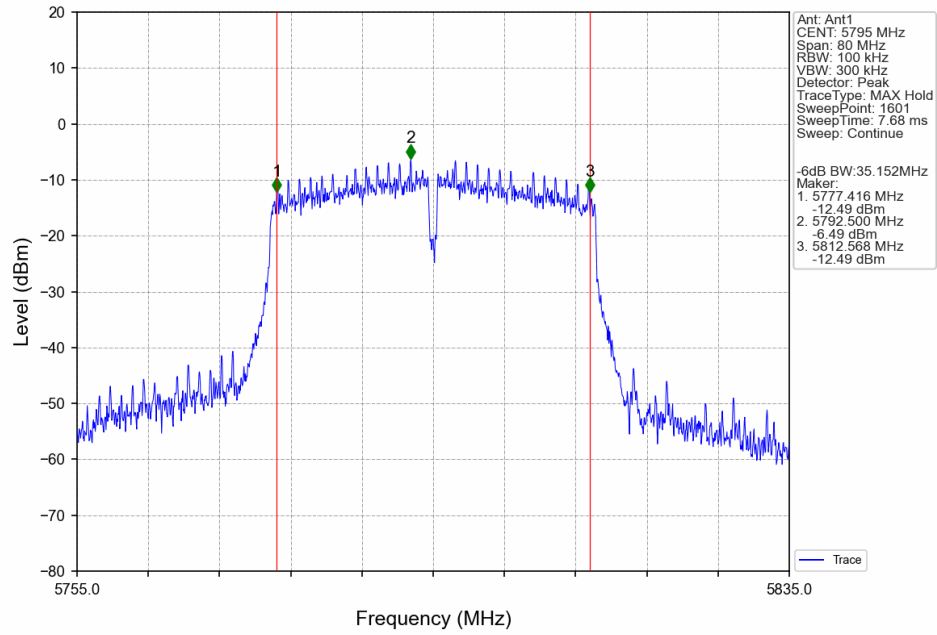
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



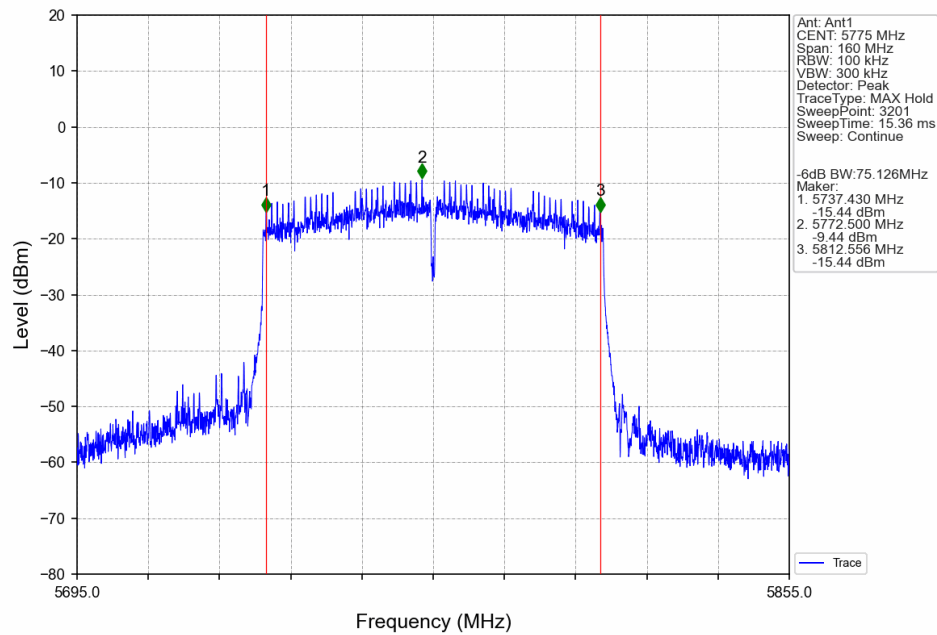
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	ANT1				Verdict
			Conducted Output Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Limit (dBm)	
802.11a	SISO	5745	9.66	0.97	10.63	<=30	Pass
		5785	9.84	0.92	10.76	<=30	Pass
		5825	9.76	0.96	10.72	<=30	Pass
802.11n (HT20)	SISO	5745	8.94	1.03	9.97	<=30	Pass
		5785	9.08	1.03	10.11	<=30	Pass
		5825	8.82	0.98	9.80	<=30	Pass
802.11n (HT40)	SISO	5755	4.65	1.58	6.23	<=30	Pass
		5795	4.77	1.58	6.35	<=30	Pass
802.11ac (VHT20)	SISO	5745	8.69	1.07	9.76	<=30	Pass
		5785	8.85	1.13	9.98	<=30	Pass
		5825	8.71	1.12	9.83	<=30	Pass
802.11ac (VHT40)	SISO	5755	3.68	1.66	5.34	<=30	Pass
		5795	4.59	1.65	6.24	<=30	Pass
802.11ac (VHT80)	SISO	5775	3.58	2.01	5.59	<=30	Pass

4. Maximum Power Spectral Density

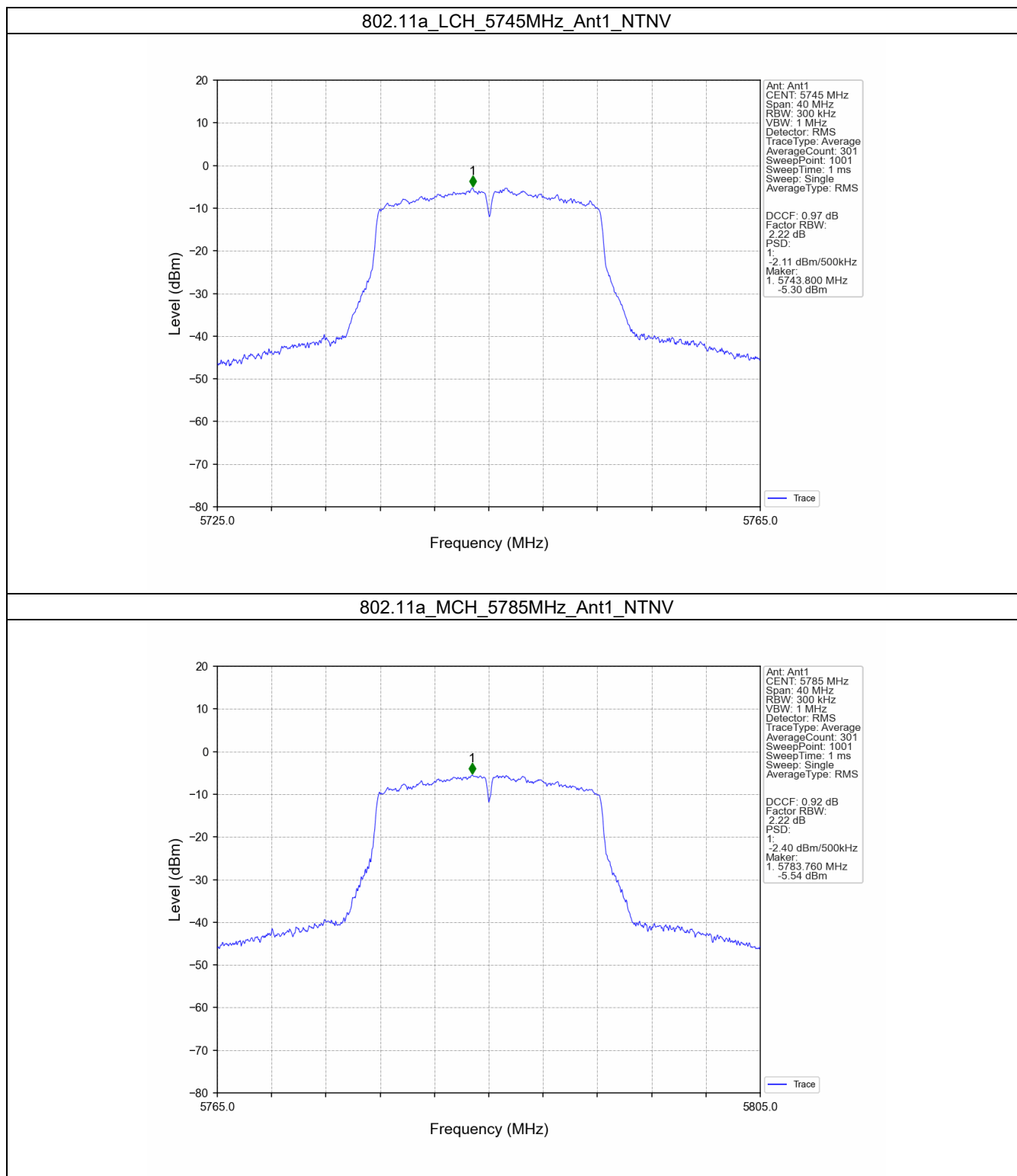
4.1 Test Result

4.1.1 PSD-Band3

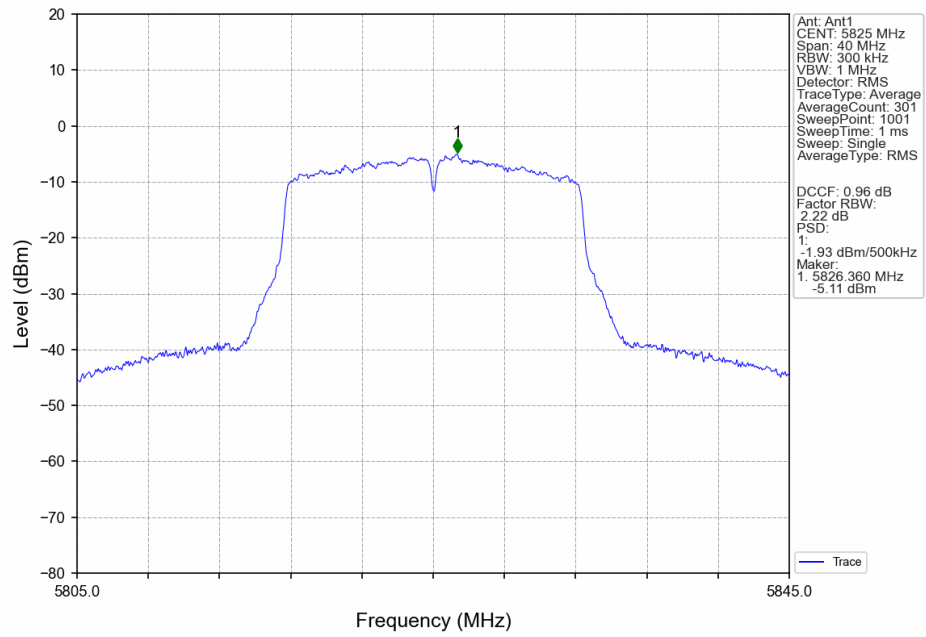
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-2.11	<=30	Pass
		5785	-2.40	<=30	Pass
		5825	-1.93	<=30	Pass
802.11n (HT20)	SISO	5745	-2.43	<=30	Pass
		5785	-2.26	<=30	Pass
		5825	-3.02	<=30	Pass
802.11n (HT40)	SISO	5755	-8.93	<=30	Pass
		5795	-8.97	<=30	Pass
802.11ac (VHT20)	SISO	5745	-2.61	<=30	Pass
		5785	-2.71	<=30	Pass
		5825	-2.52	<=30	Pass
802.11ac (VHT40)	SISO	5755	-9.46	<=30	Pass
		5795	-8.92	<=30	Pass
802.11ac (VHT80)	SISO	5775	-12.76	<=30	Pass

4.2 Test Graph

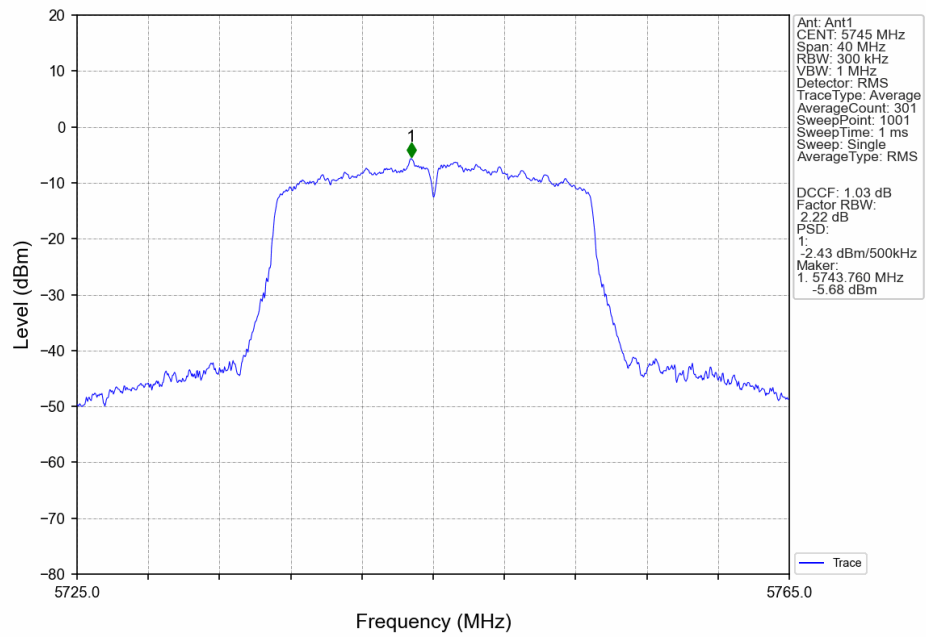
4.2.1 PSD-Band3



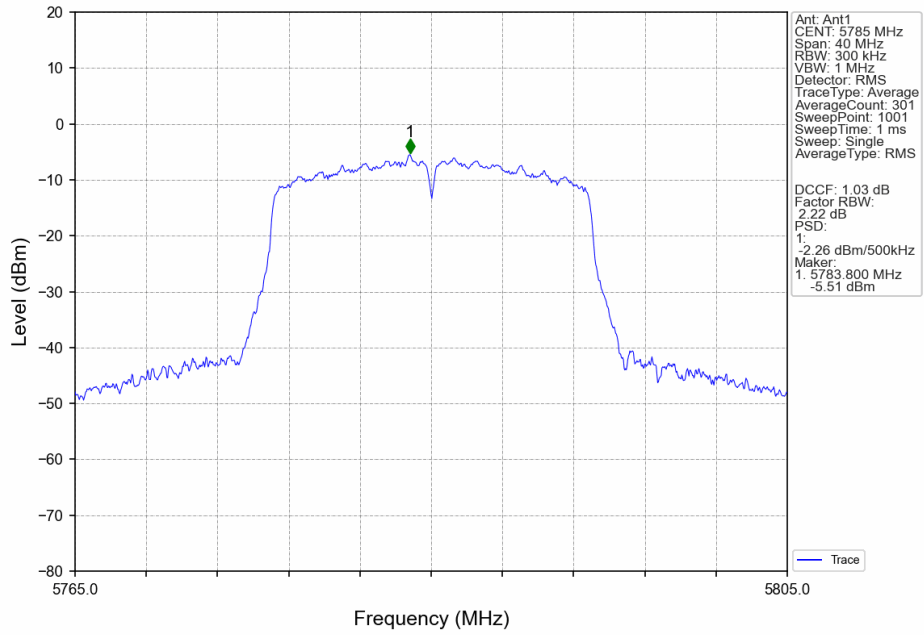
802.11a_HCH_5825MHz_Ant1_NTNV



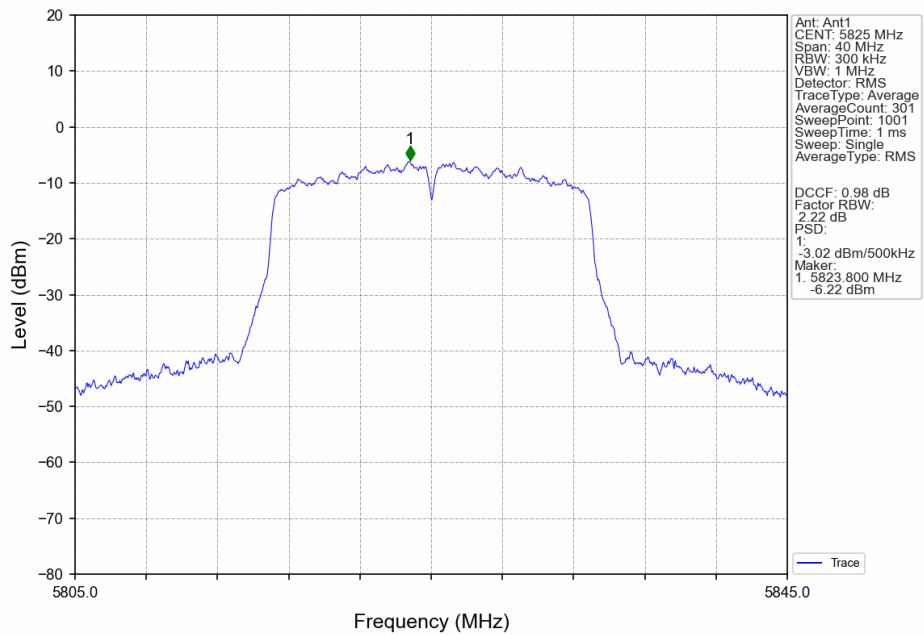
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



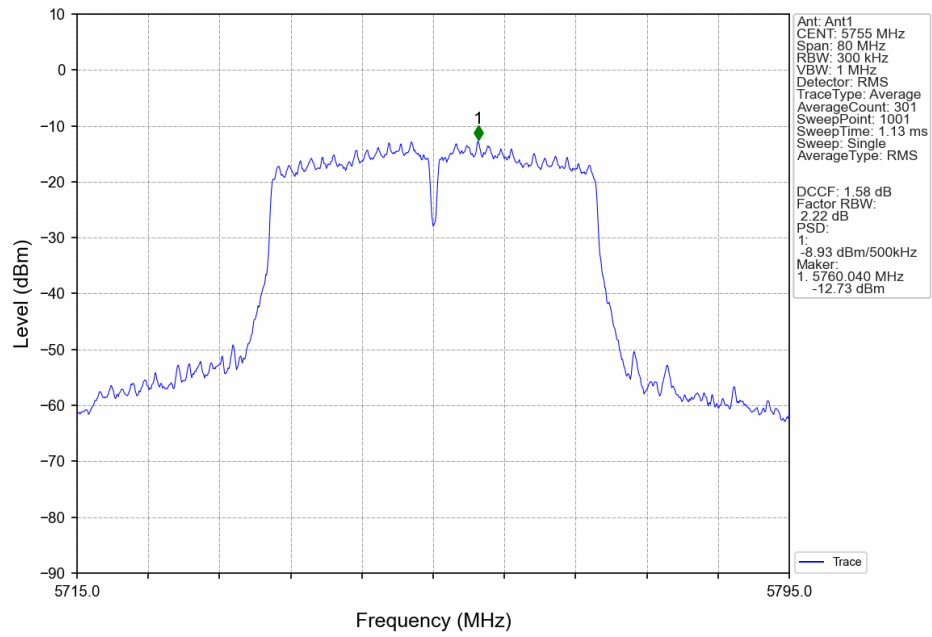
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



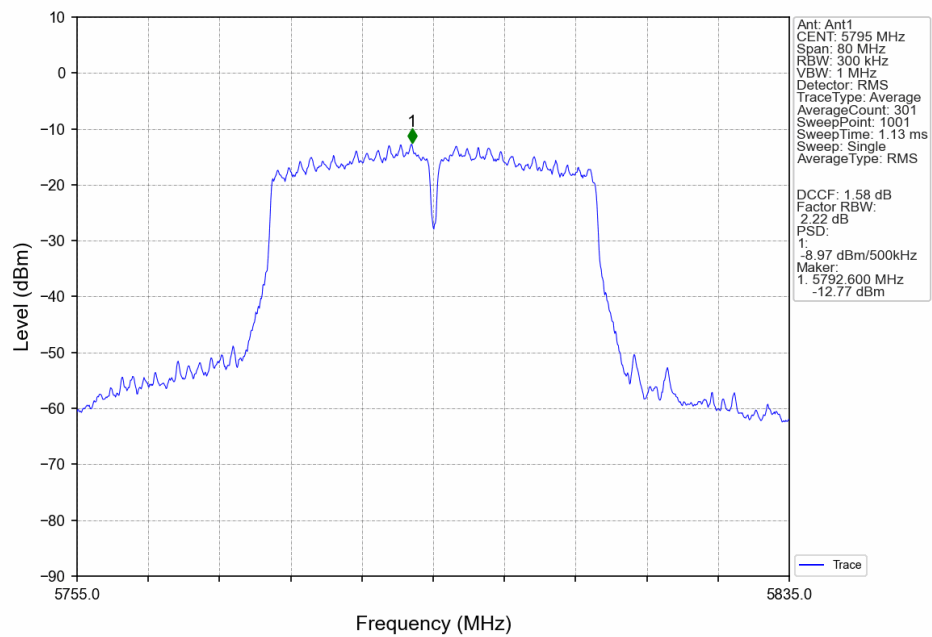
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



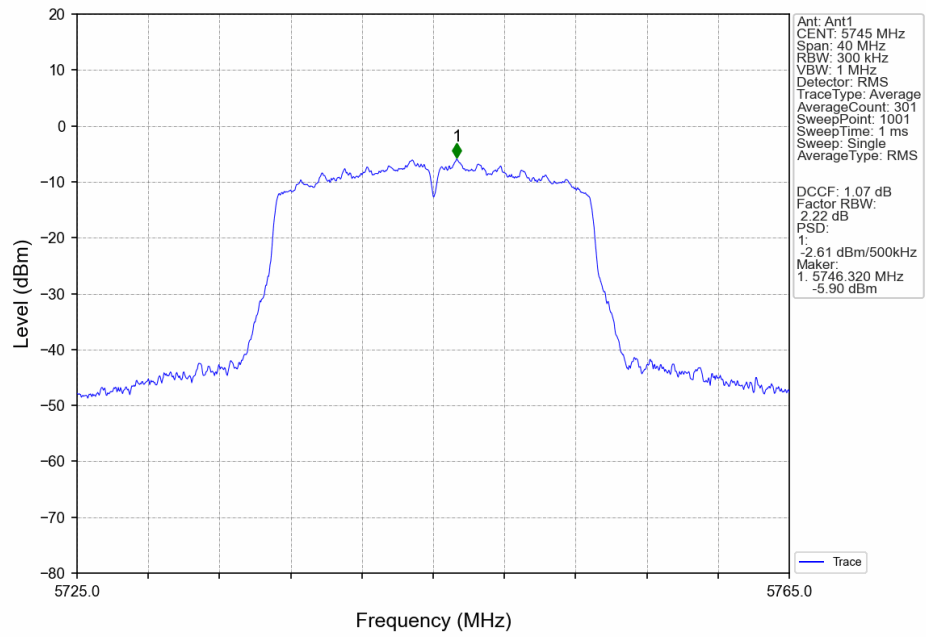
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



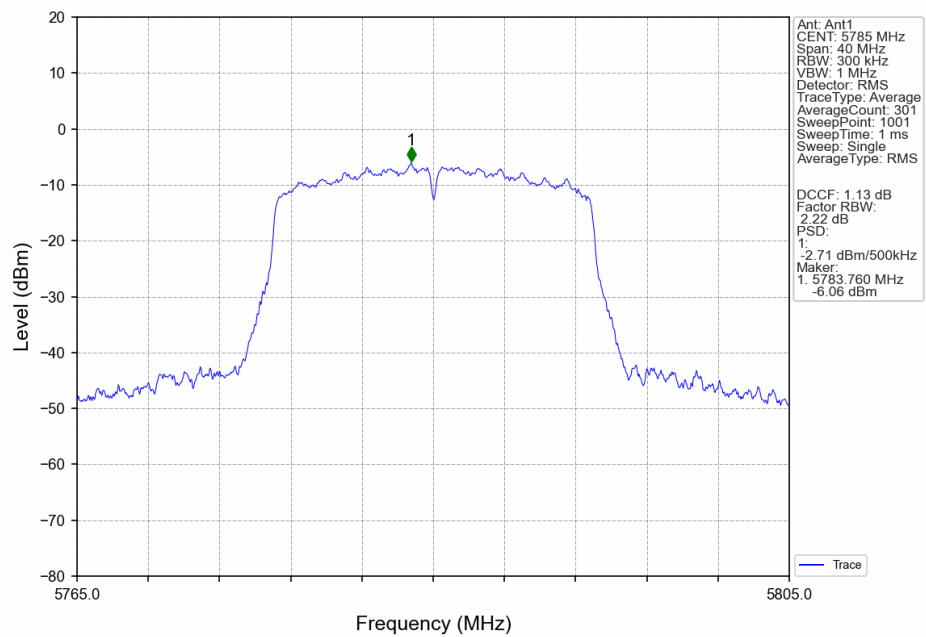
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



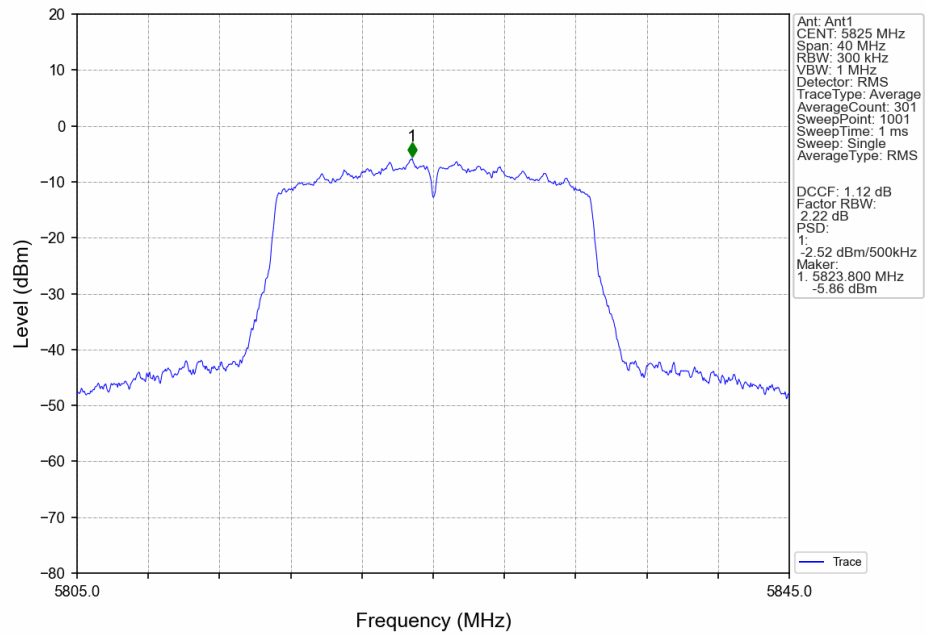
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



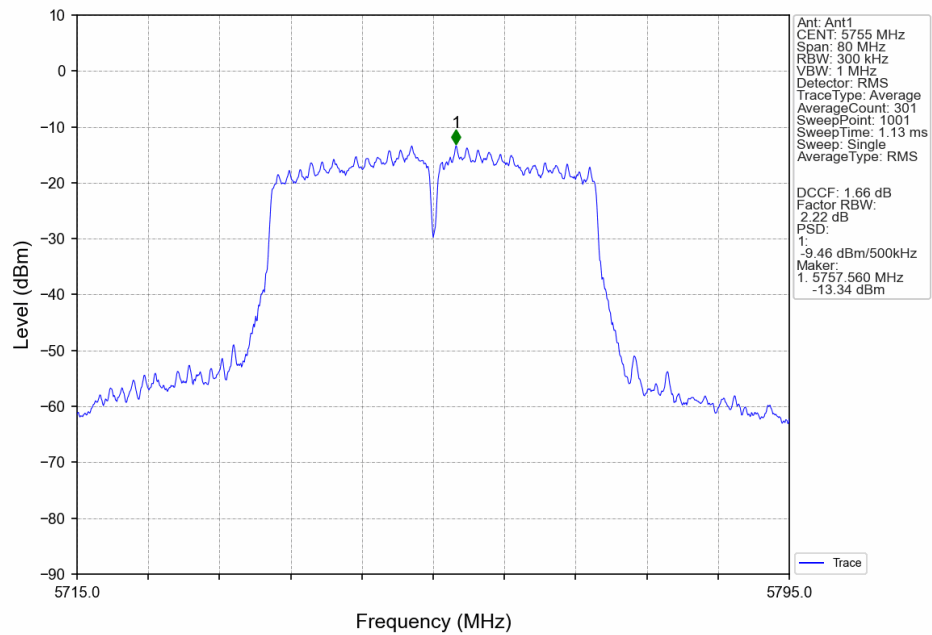
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



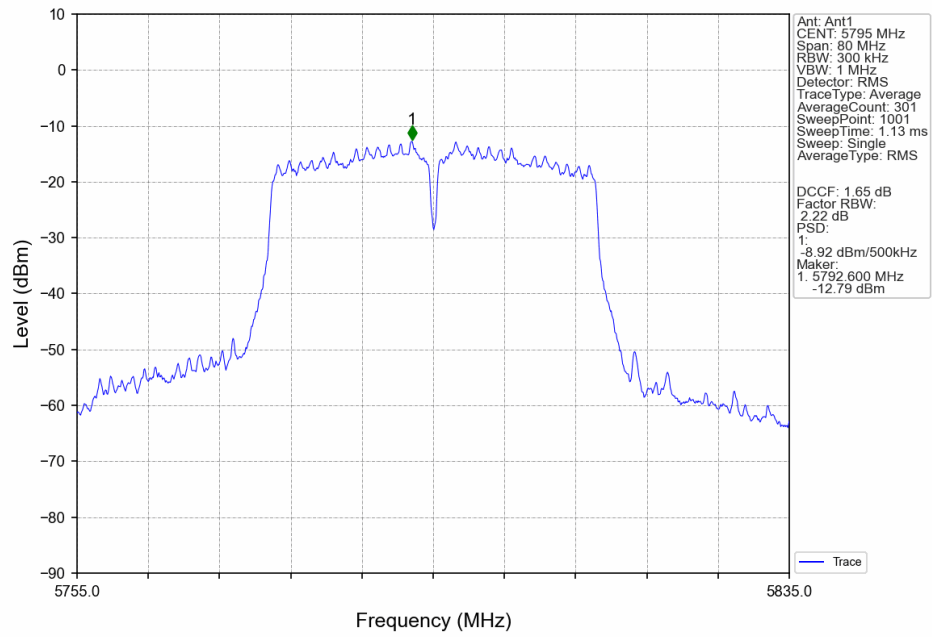
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



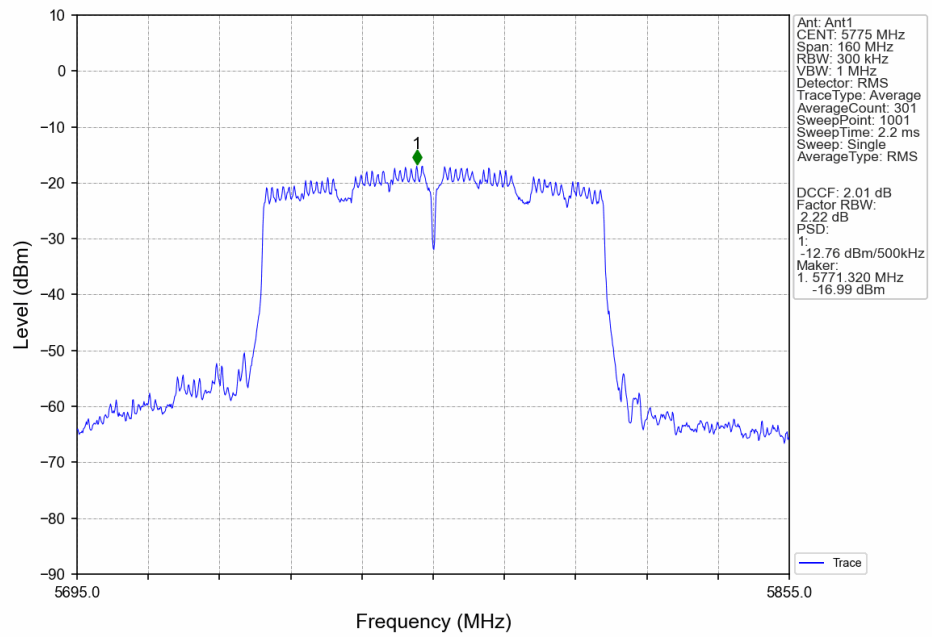
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



5. Band Edge

5.1 Test Result

5.1.1 BandEdge

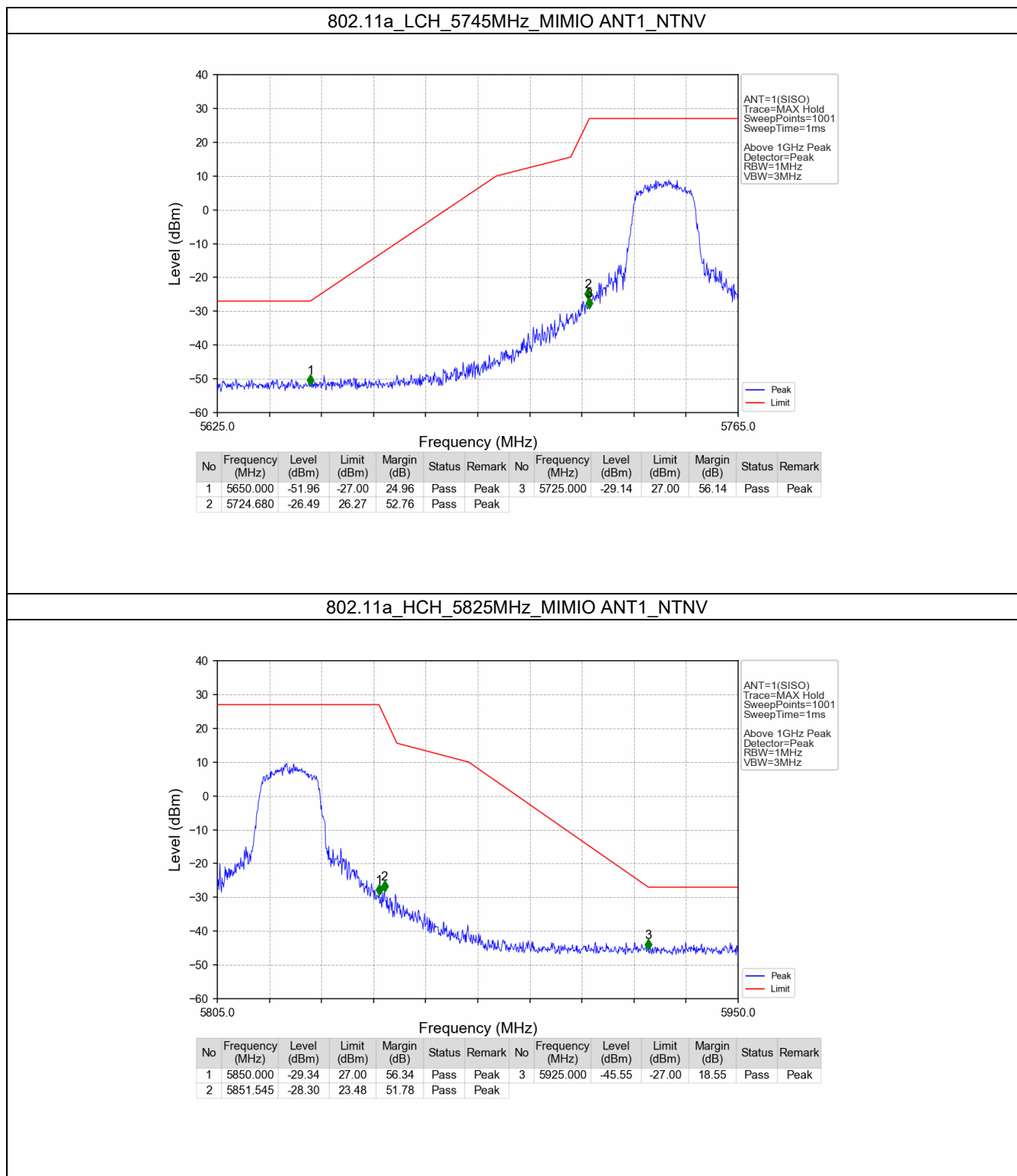
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
802.11a	SISO	5745	MIMO ANT1	Refer To Test Graph		Pass
		5825	MIMO ANT1	Refer To Test Graph		Pass
802.11n (HT20)	SISO	5745	MIMO ANT1	Refer To Test Graph		Pass
		5825	MIMO ANT1	Refer To Test Graph		Pass
802.11n (HT40)	SISO	5755	MIMO ANT1	Refer To Test Graph		Pass
		5795	MIMO ANT1	Refer To Test Graph		Pass
802.11ac (VHT20)	SISO	5745	MIMO ANT1	Refer To Test Graph		Pass
		5825	MIMO ANT1	Refer To Test Graph		Pass
802.11ac (VHT40)	SISO	5755	MIMO ANT1	Refer To Test Graph		Pass
		5795	MIMO ANT1	Refer To Test Graph		Pass
802.11ac (VHT80)	SISO	5775	MIMO ANT1	Refer To Test Graph		Pass

Note: The antenna gain is compensated in the test data.

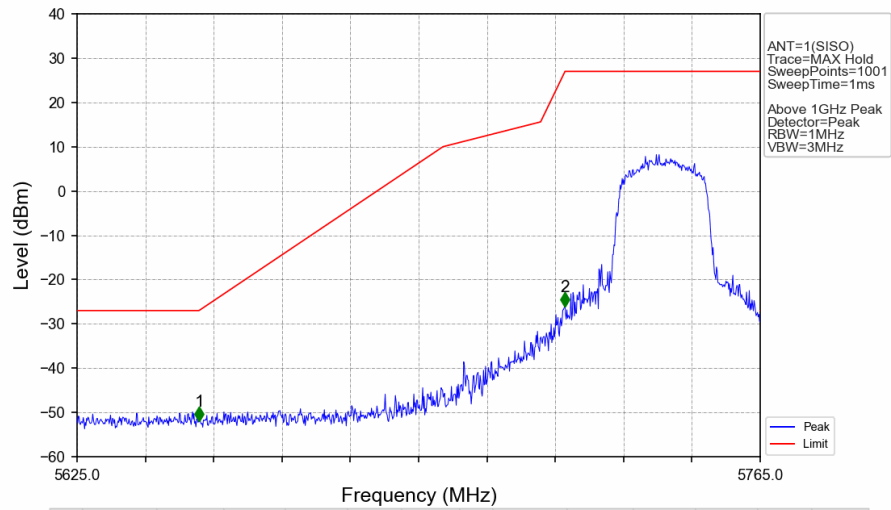
The ANT 1&ANT 2 both has 3dB margin below the limit, so the data only show the antenna1 worst mode.

6.2 Test Graph

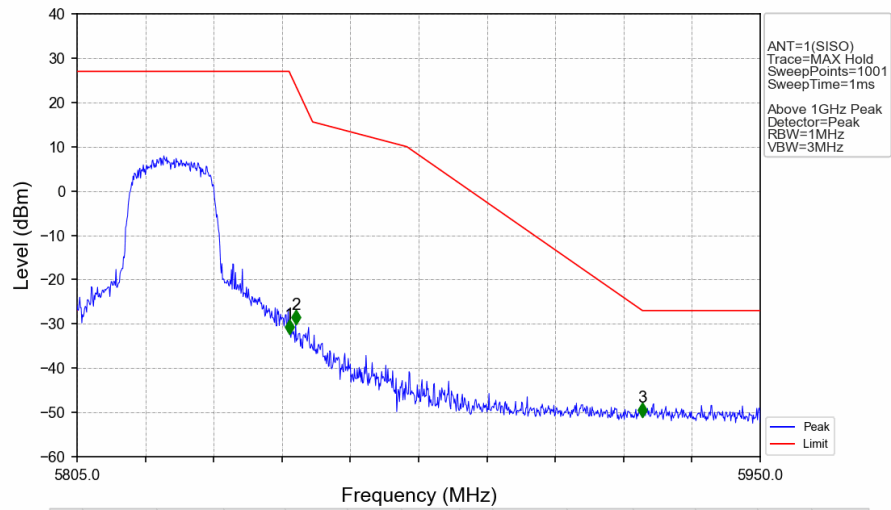
6.2.1 BandEdge



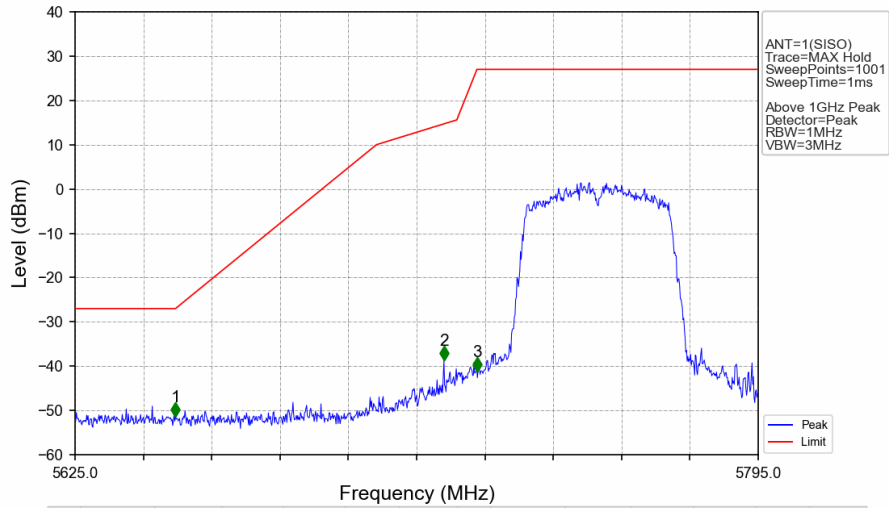
802.11n(HT20)_LCH_5745MHz_MIMIO ANT1_NTNV



802.11n(HT20)_HCH_5825MHz_MIMIO ANT1_NTNV



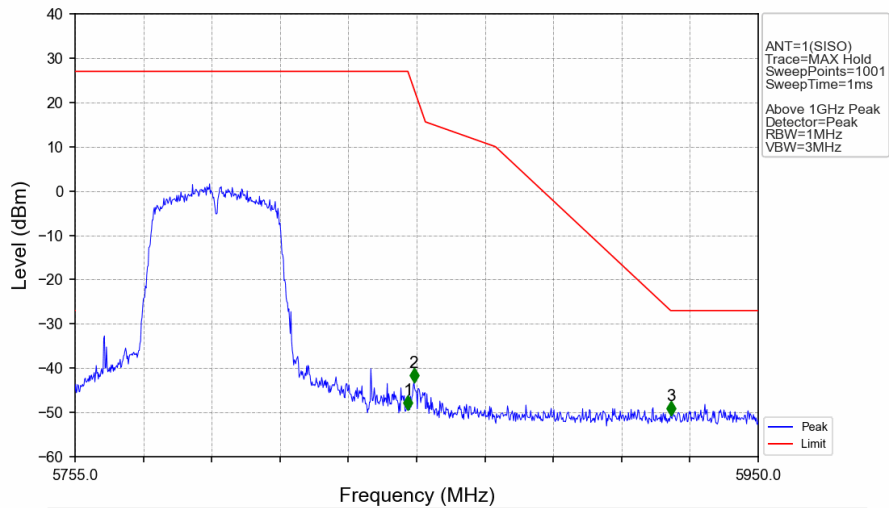
802.11n(HT40)_LCH_5755MHz_MIMIO ANT1_NTNV



Frequency (MHz)

No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5650.000	-51.32	-27.00	24.32	Pass	Peak	3	5725.000	-41.13	27.00	68.13	Pass	Peak
2	5716.800	-38.70	14.70	53.40	Pass	Peak							

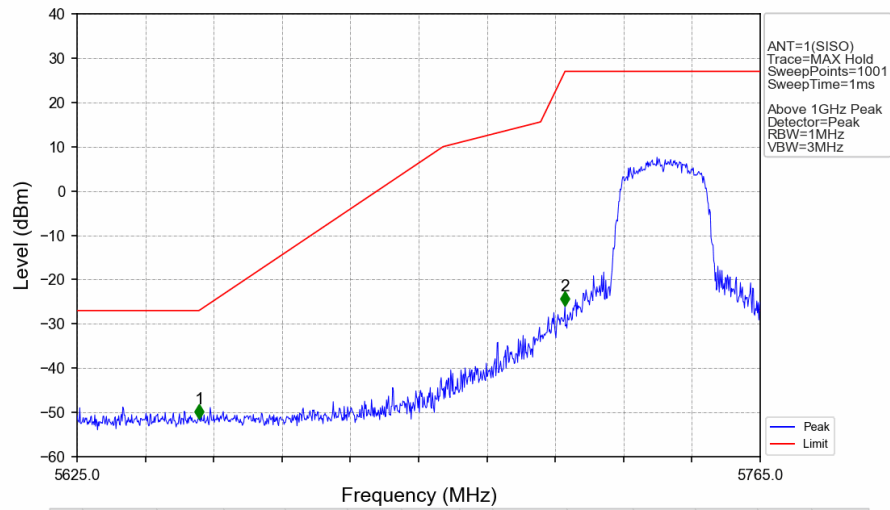
802.11n(HT40)_HCH_5795MHz_MIMIO ANT1_NTNV



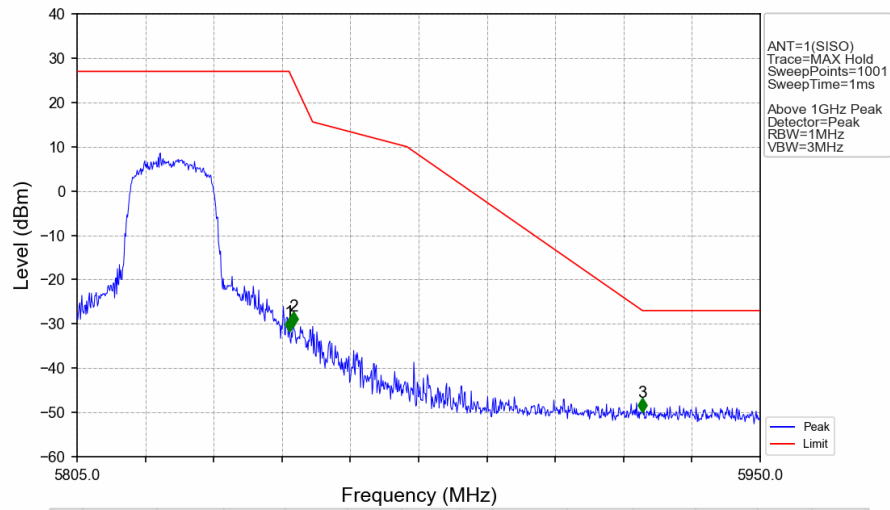
Frequency (MHz)

No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5850.000	-49.33	27.00	76.33	Pass	Peak	3	5925.000	-50.57	-27.00	23.57	Pass	Peak
2	5851.720	-43.15	23.08	66.23	Pass	Peak							

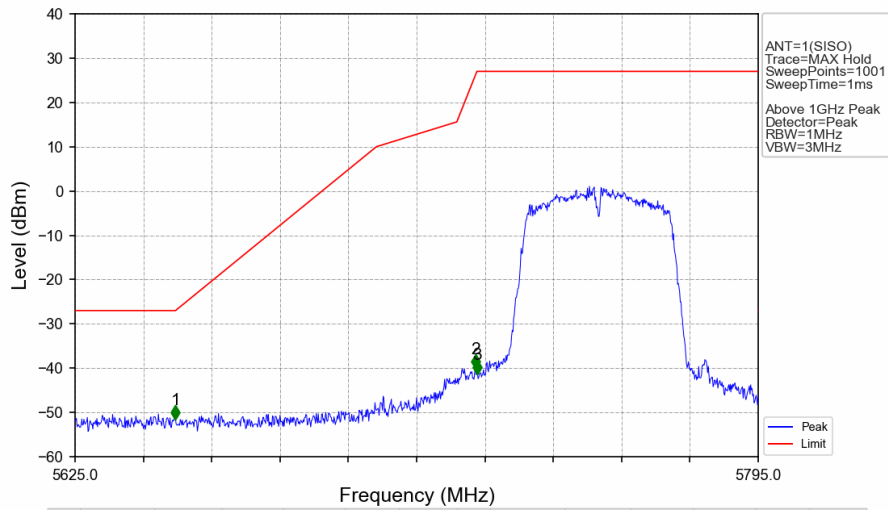
802.11ac(VHT20)_LCH_5745MHz_MIMIO ANT1_NTNV



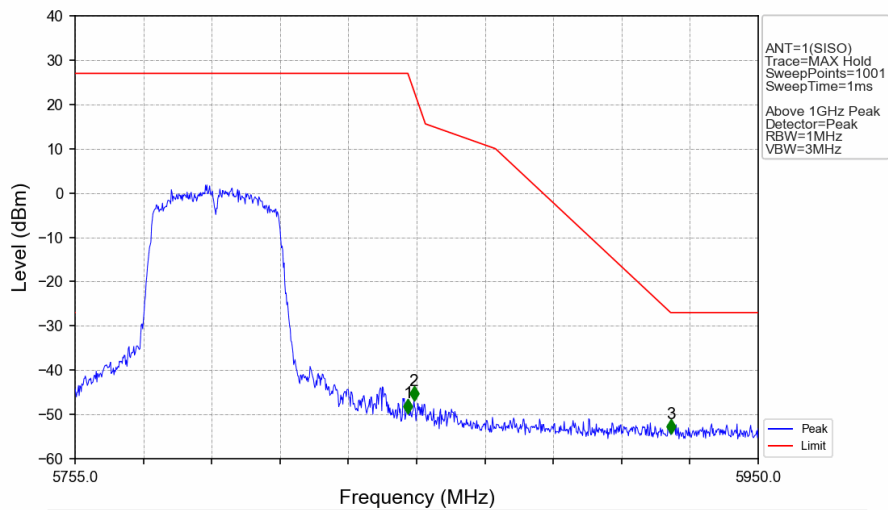
802.11ac(VHT20)_HCH_5825MHz_MIMIO ANT1_NTNV



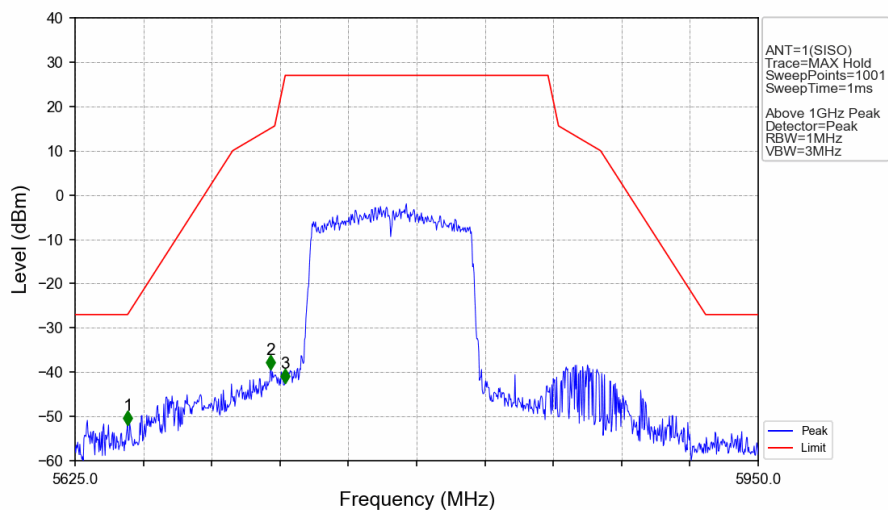
802.11ac(VHT40)_LCH_5755MHz_MIMIO ANT1_NTNV



802.11ac(VHT40)_HCH_5795MHz_MIMIO ANT1_NTNV



802.11ac(VHT80)_MCH_5775MHz_MIMIO ANT1_NTNV



802.11ac(VHT80)_MCH_5775MHz_MIMIO ANT1_NTNV

