

ANNEX G TEST DATA

For

Project No.:	8333EU122504W
Client:	Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Product Description:	WD_RTL8852BELGA_V10
Model No.:	WD_RTL8852BELGA_V10
FCC ID:	2AXHE-RTL8852BELGA
Technology:	WiFi 5G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2025-09-10

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass
Frequency Stability	Pass

1. Duty Cycle

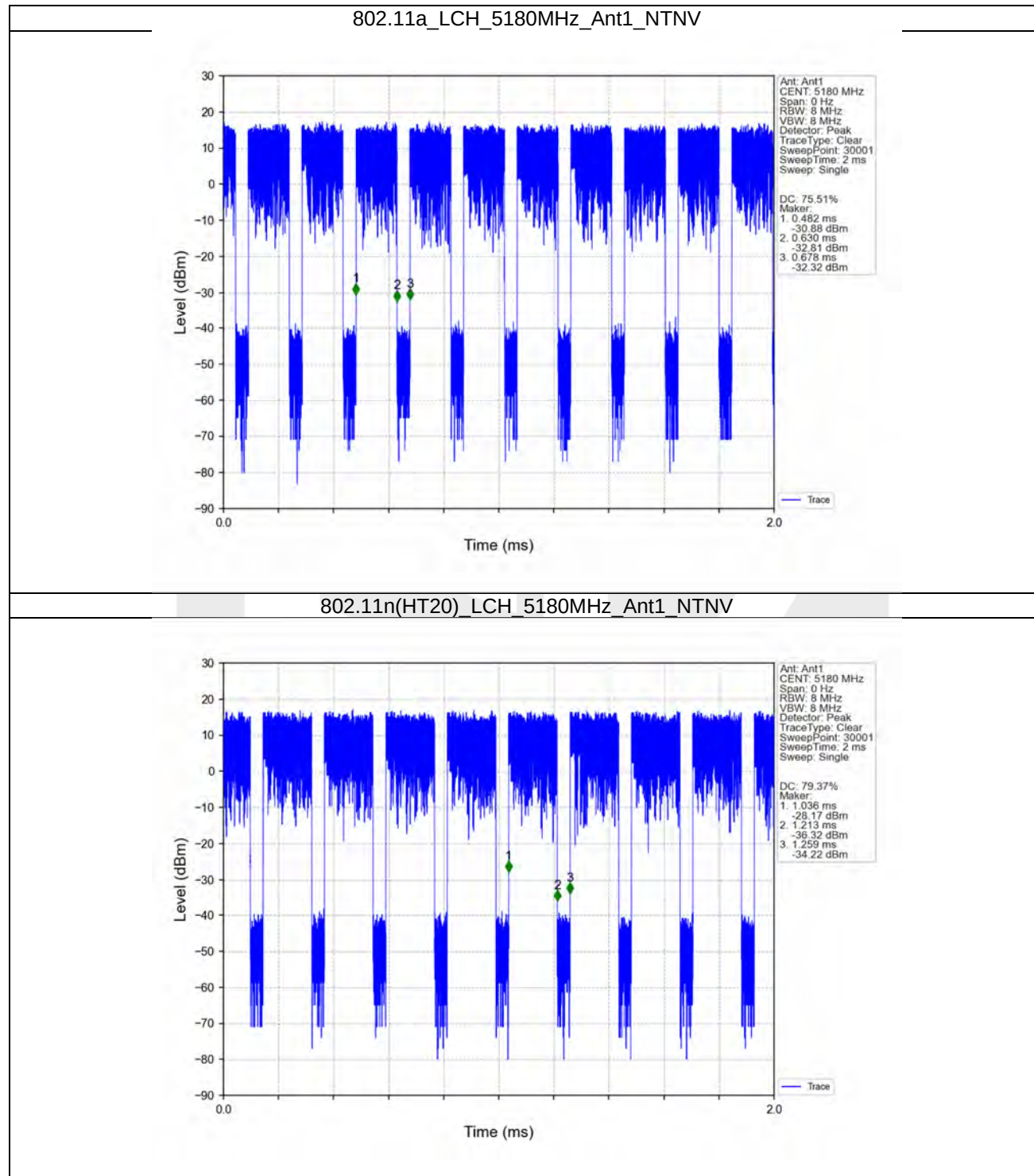
1.1 Test Result

1.1.1 Ant1

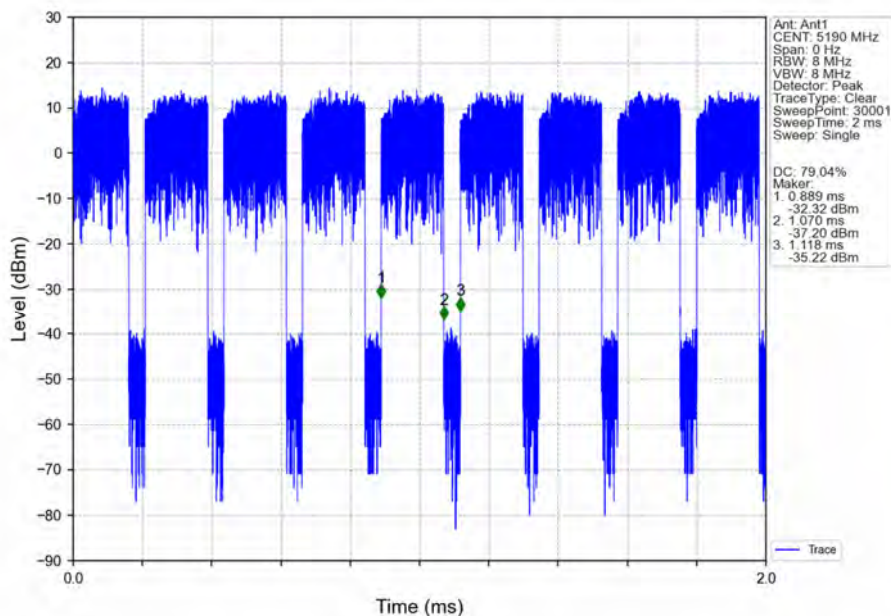
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	0.148	0.196	75.51	1.22	0.61
802.11n (HT20)	SISO	5180	/	/	0.177	0.223	79.37	1.00	0.14
802.11n (HT40)	SISO	5190	/	/	0.181	0.229	79.04	1.02	0.67
802.11ac (VHT20)	SISO	5180	/	/	0.165	0.212	77.83	1.09	0.59
802.11ac (VHT40)	SISO	5190	/	/	0.157	0.205	76.59	1.16	0.82
802.11ac (VHT80)	SISO	5210	/	/	0.164	0.212	77.36	1.11	0.42
802.11ax (HEW20)	SISO	5180	SU	/	0.175	0.222	78.83	1.03	0.24
802.11ax (HEW40)	SISO	5190	SU	/	0.171	0.220	77.73	1.09	0.83
802.11ax (HEW80)	SISO	5210	SU	/	0.176	0.225	78.22	1.07	0.76

1.2 Test Graph

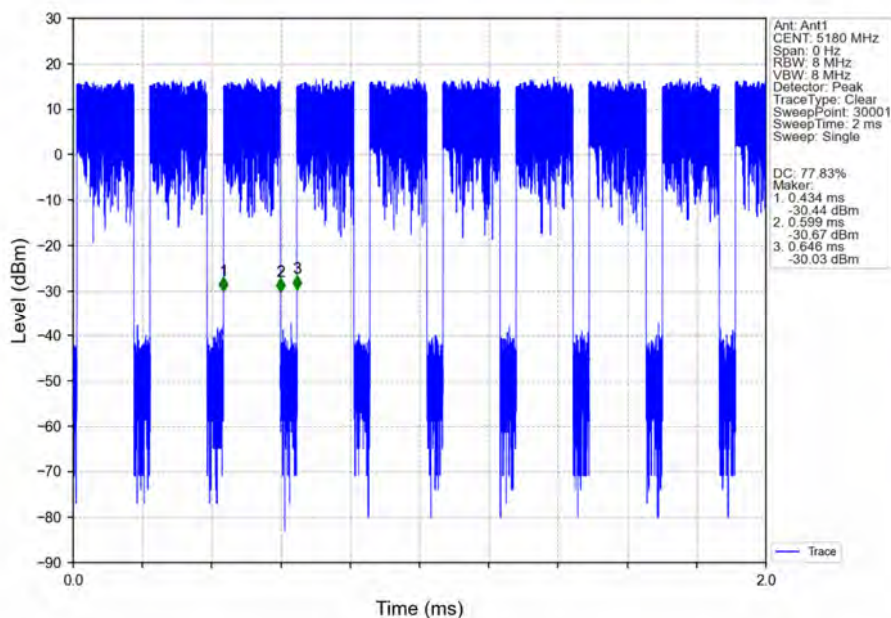
1.2.1 Ant1



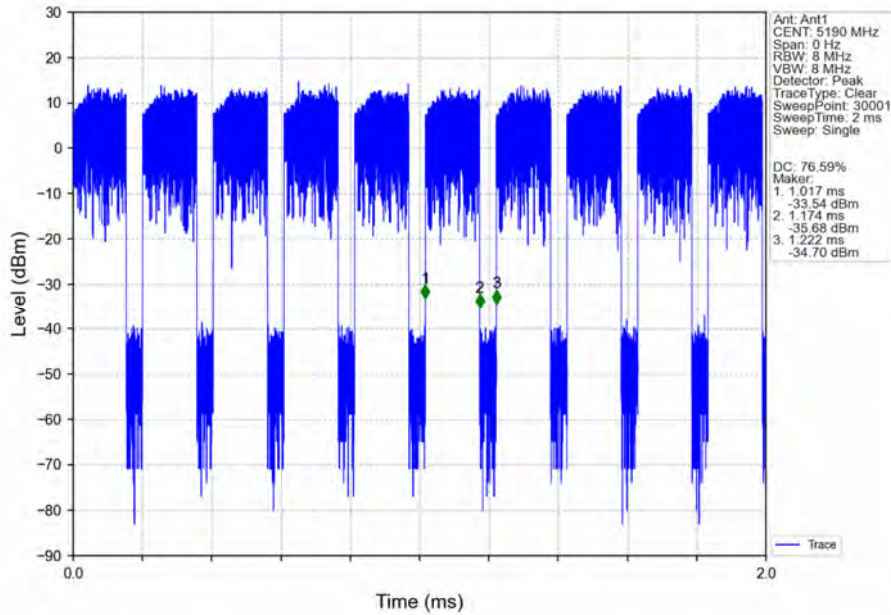
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



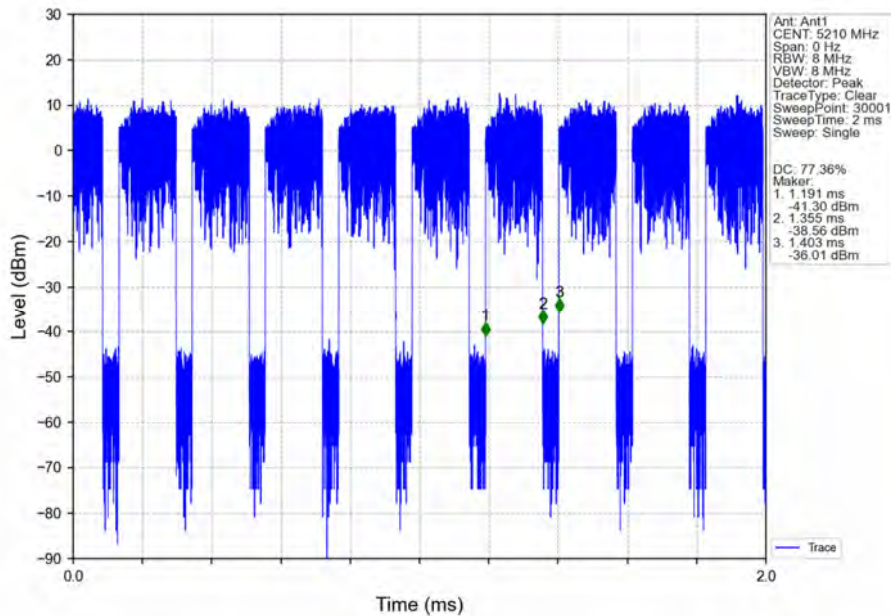
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



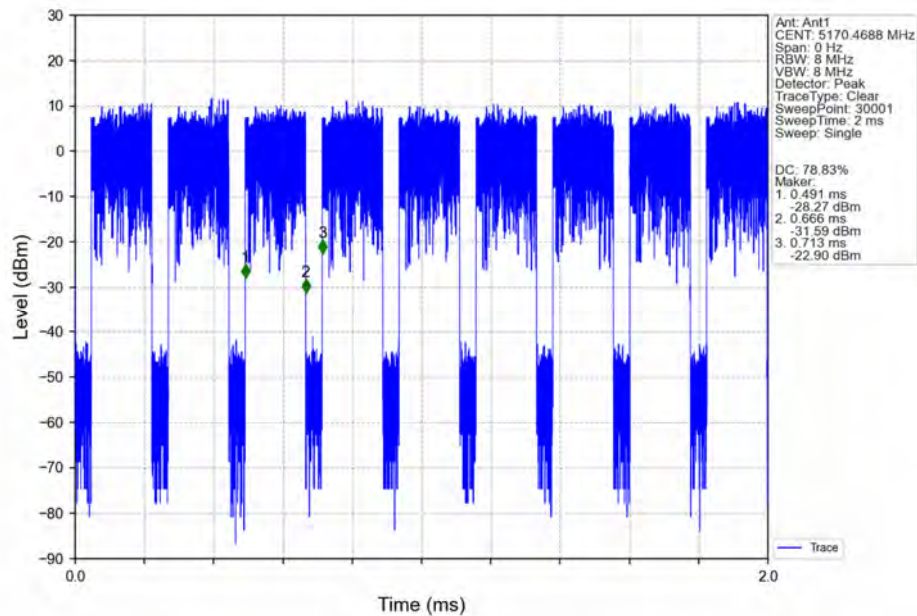
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



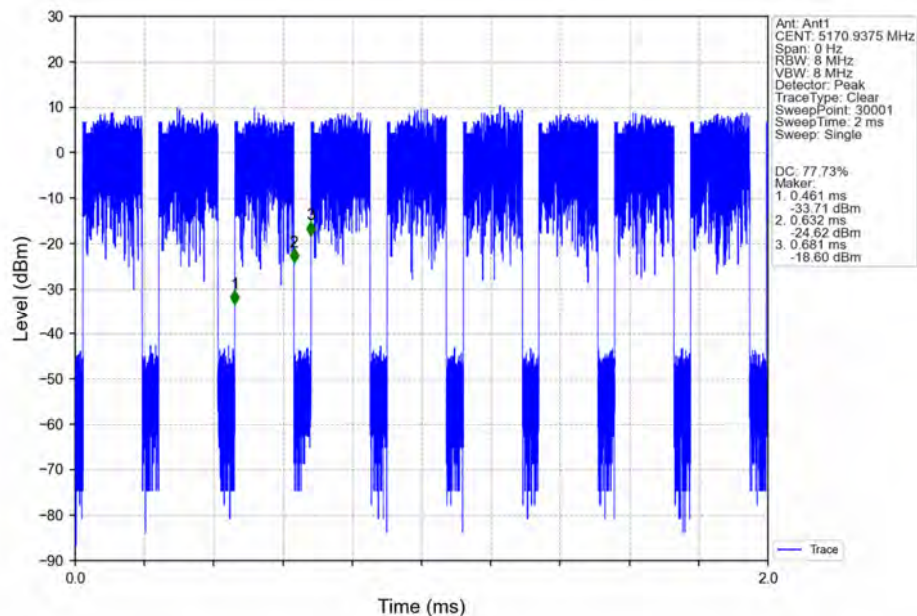
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

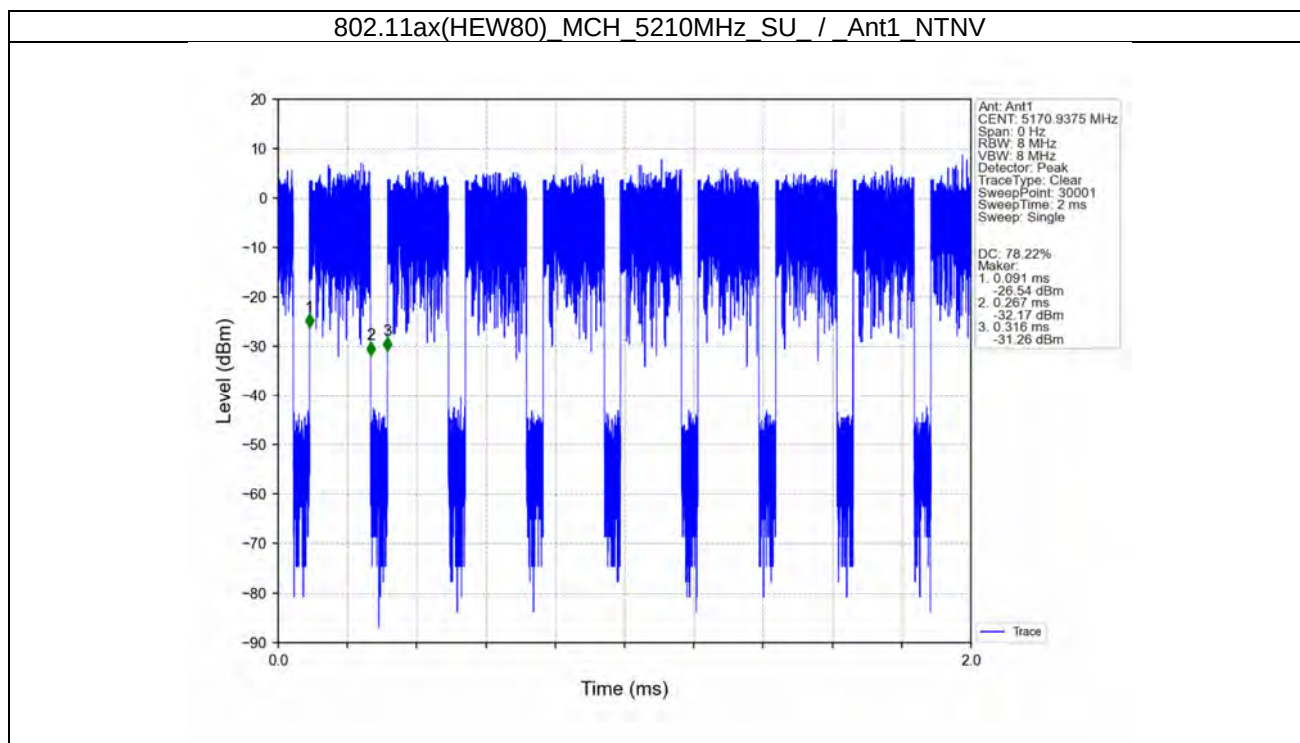


802.11ax(HEW20) LCH_5180MHz_SU_ / Ant1_NTNV



802.11ax(HEW40) LCH_5190MHz_SU_ / 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	17.049	/	Pass
		5200	/	/	1	17.098	/	Pass
		5240	/	/	1	16.992	/	Pass
		5745	/	/	1	17.484	/	Pass
		5785	/	/	1	17.590	/	Pass
		5825	/	/	1	17.417	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	18.119	/	Pass
		5200	/	/	1	18.129	/	Pass
		5240	/	/	1	18.082	/	Pass
		5745	/	/	1	18.547	/	Pass
		5785	/	/	1	18.527	/	Pass
		5825	/	/	1	18.534	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	36.377	/	Pass
		5230	/	/	1	36.219	/	Pass
		5755	/	/	1	36.734	/	Pass
		5795	/	/	1	36.976	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	18.099	/	Pass
		5200	/	/	1	18.148	/	Pass
		5240	/	/	1	18.083	/	Pass
		5745	/	/	1	18.433	/	Pass
		5785	/	/	1	18.501	/	Pass
		5825	/	/	1	18.523	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	36.395	/	Pass
		5230	/	/	1	36.169	/	Pass
		5755	/	/	1	36.873	/	Pass
		5795	/	/	1	36.890	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	75.381	/	Pass
		5775	/	/	1	75.403	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	19.032	/	Pass
		5200	SU	/	1	19.054	/	Pass
		5240	SU	/	1	19.020	/	Pass
		5745	SU	/	1	19.248	/	Pass
		5785	SU	/	1	19.246	/	Pass
		5825	SU	/	1	19.276	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	37.785	/	Pass
		5230	SU	/	1	37.724	/	Pass
		5755	SU	/	1	38.191	/	Pass
		5795	SU	/	1	38.163	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	77.153	/	Pass
		5775	SU	/	1	76.809	/	Pass

2.1.2 26dB BW

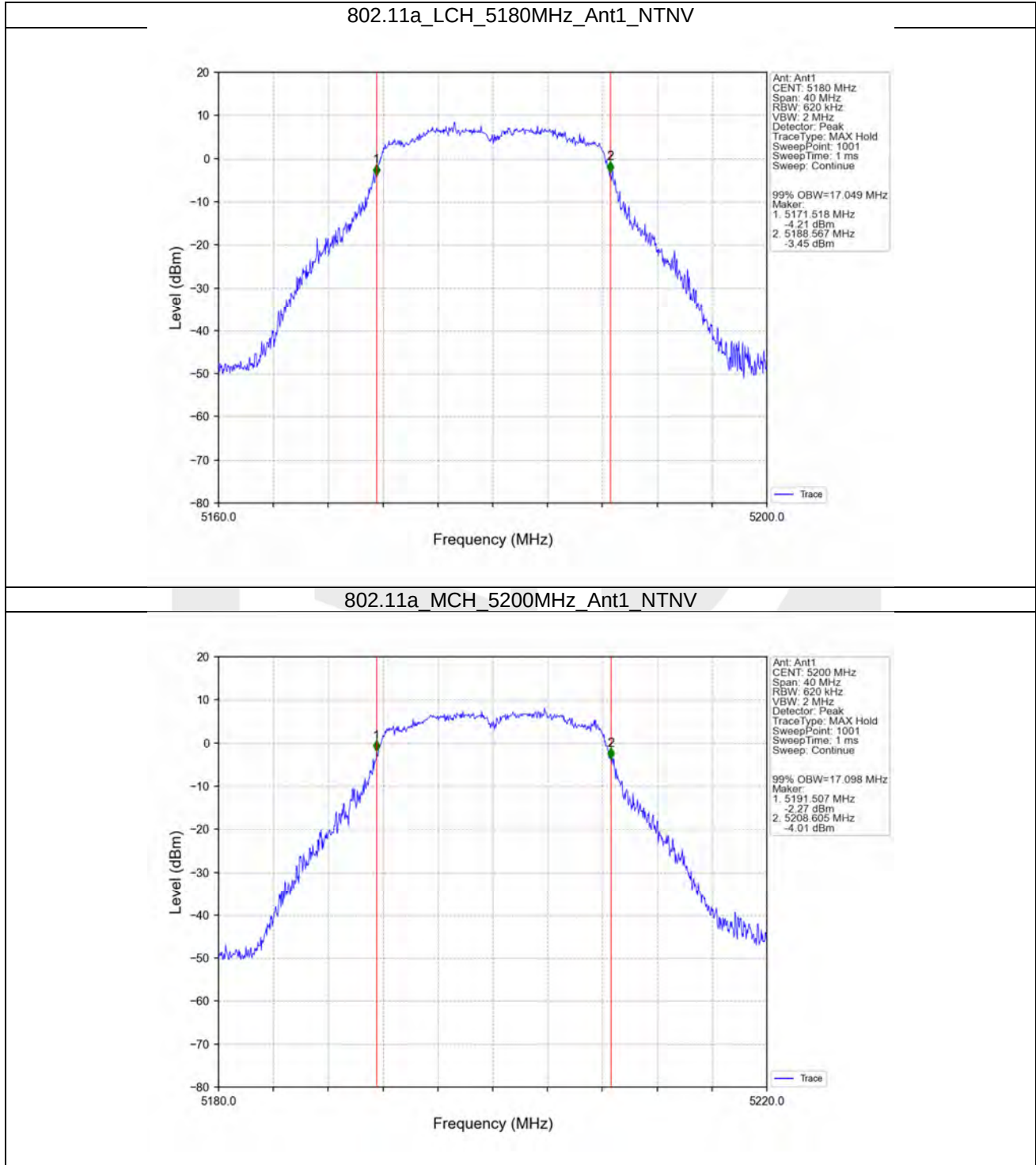
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	23.372	/	Pass
		5200	/	/	1	22.855	/	Pass
		5240	/	/	1	23.436	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	23.099	/	Pass
		5200	/	/	1	23.356	/	Pass
		5240	/	/	1	23.848	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	43.769	/	Pass
		5230	/	/	1	43.218	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	23.232	/	Pass
		5200	/	/	1	23.384	/	Pass
		5240	/	/	1	22.611	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	42.827	/	Pass
		5230	/	/	1	43.051	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	83.857	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	22.979	/	Pass
		5200	SU	/	1	22.894	/	Pass
		5240	SU	/	1	22.651	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	41.997	/	Pass
		5230	SU	/	1	41.338	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	84.426	/	Pass

2.1.3 6dB BW

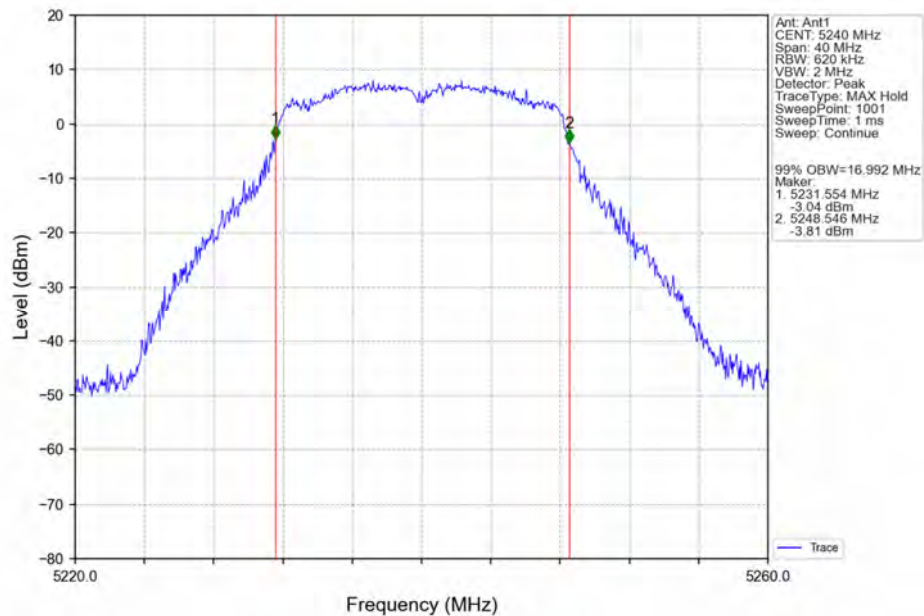
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	16.359	>=0.5	Pass
		5785	/	/	1	16.342	>=0.5	Pass
		5825	/	/	1	16.362	>=0.5	Pass
802.11n (HT20)	SISO	5745	/	/	1	17.608	>=0.5	Pass
		5785	/	/	1	17.584	>=0.5	Pass
		5825	/	/	1	17.266	>=0.5	Pass
802.11n (HT40)	SISO	5755	/	/	1	36.325	>=0.5	Pass
		5795	/	/	1	36.340	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	17.600	>=0.5	Pass
		5785	/	/	1	17.579	>=0.5	Pass
		5825	/	/	1	17.586	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	36.318	>=0.5	Pass
		5795	/	/	1	36.101	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	/	/	1	72.603	>=0.5	Pass
802.11ax (HEW20)	SISO	5745	SU	/	1	18.223	>=0.5	Pass
		5785	SU	/	1	18.609	>=0.5	Pass
		5825	SU	/	1	18.749	>=0.5	Pass
802.11ax (HEW40)	SISO	5755	SU	/	1	37.756	>=0.5	Pass
		5795	SU	/	1	37.725	>=0.5	Pass
802.11ax (HEW80)	SISO	5775	SU	/	1	75.066	>=0.5	Pass

2.2 Test Graph

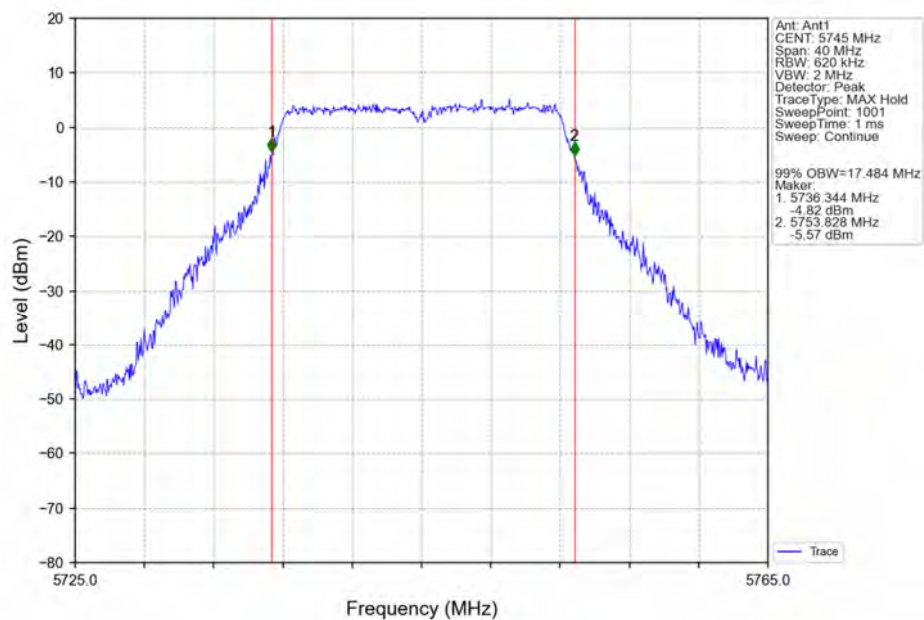
2.2.1 OBW



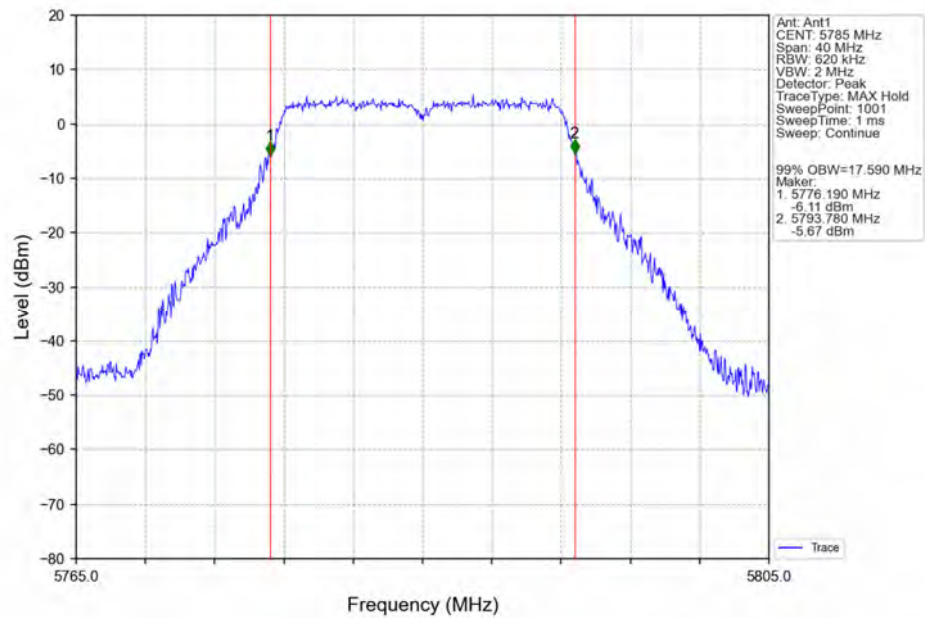
802.11a HCH_5240MHz_Ant1_NTNV



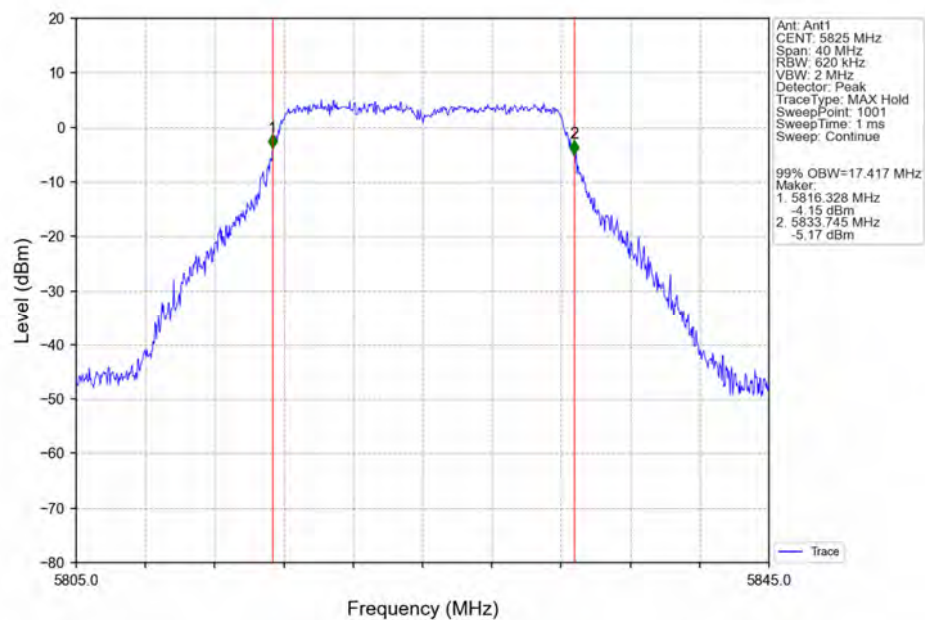
802.11a LCH_5745MHz_Ant1_NTNV



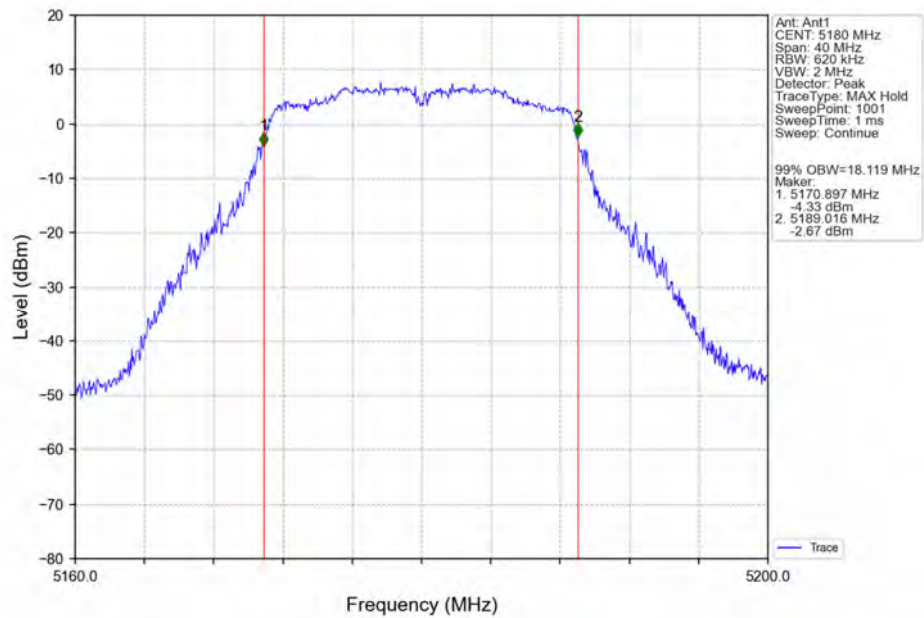
802.11a MCH_5785MHz_Ant1_NTNV



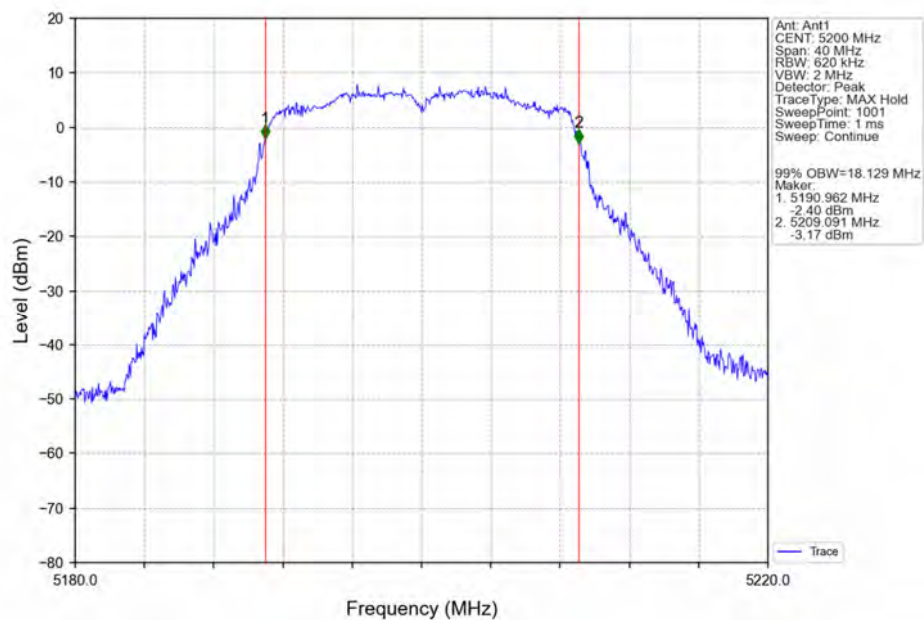
802.11a HCH_5825MHz_Ant1_NTNV



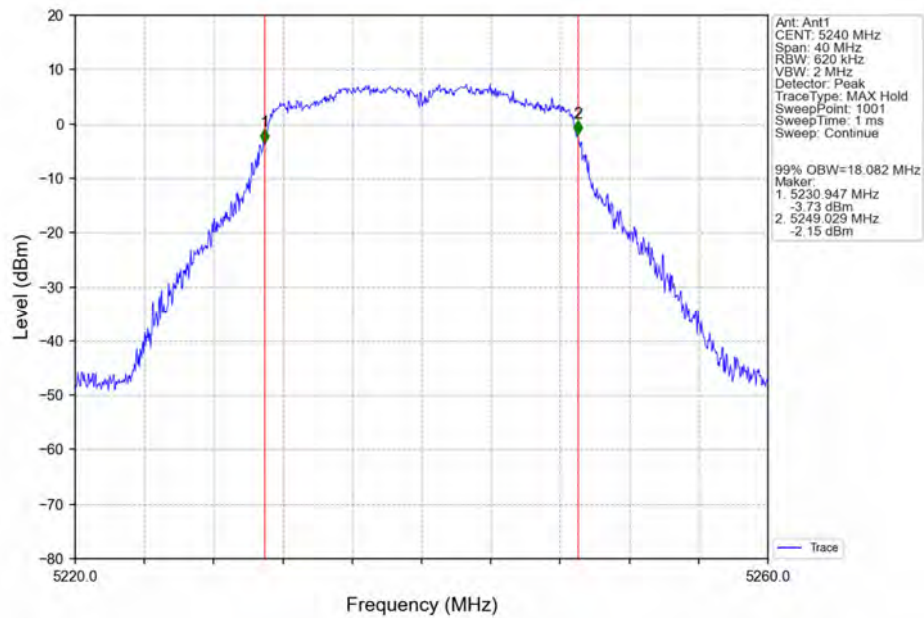
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



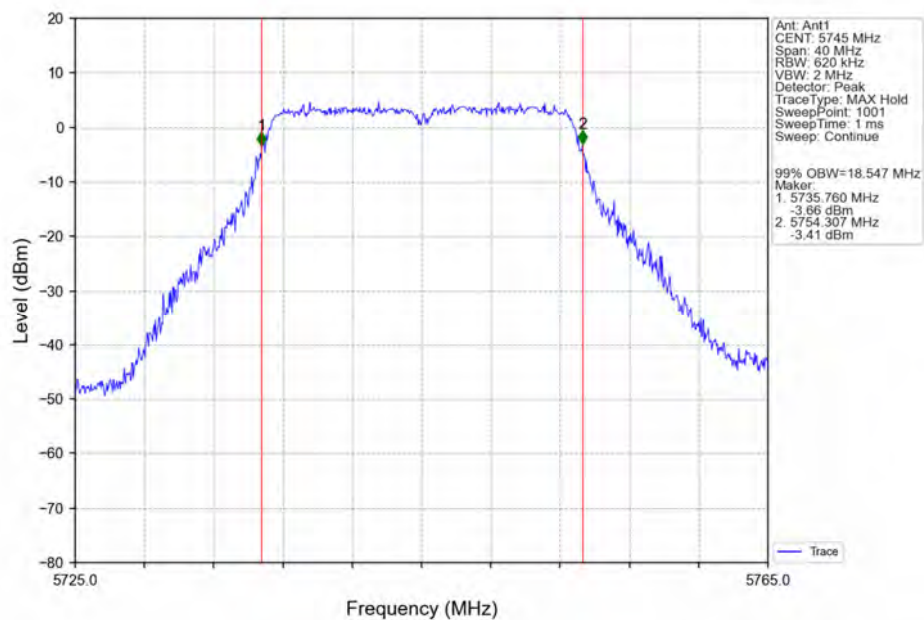
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



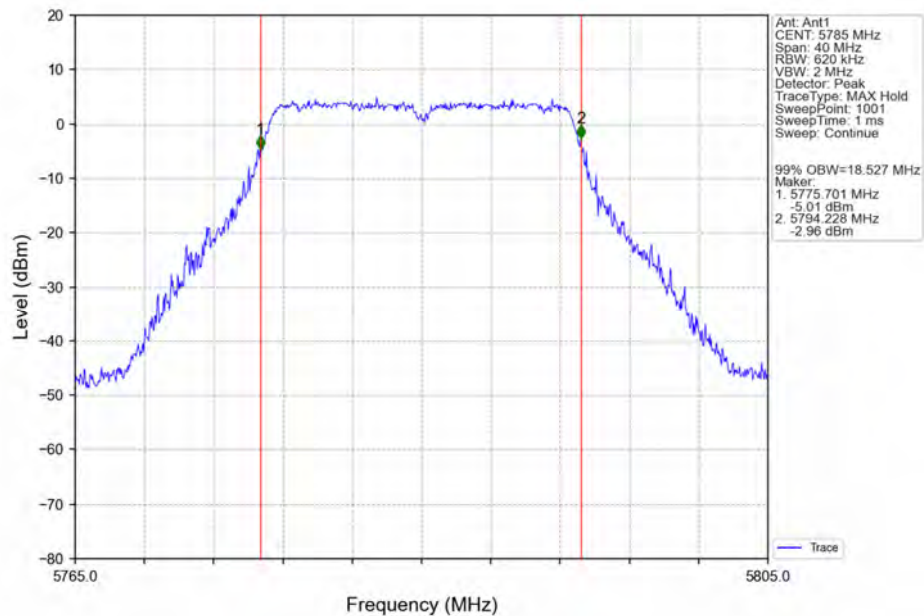
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



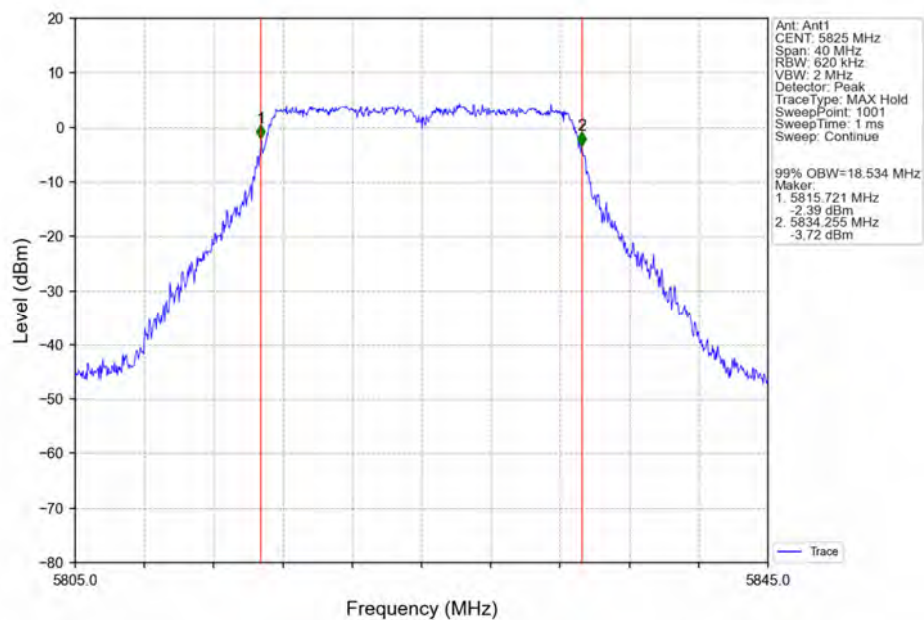
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



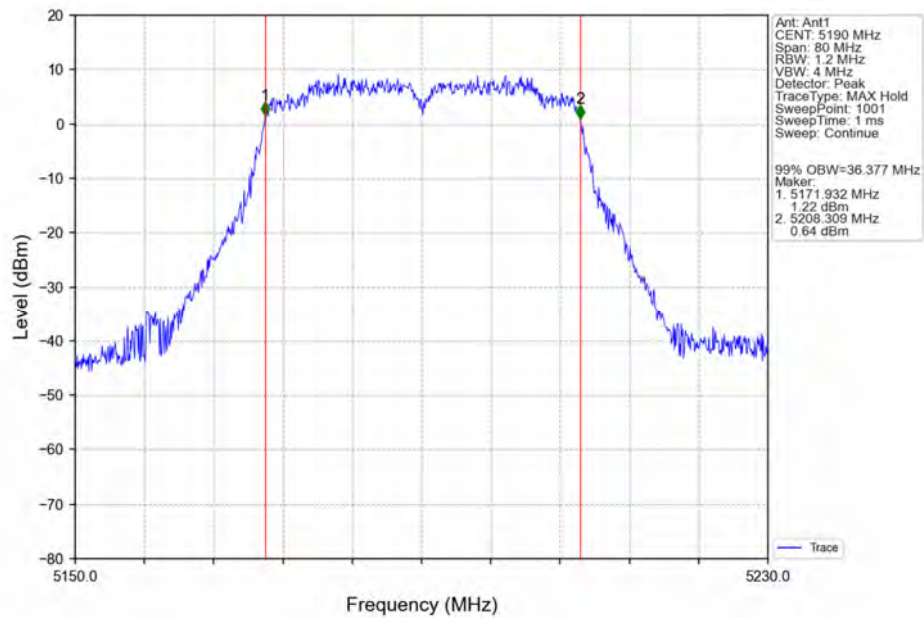
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



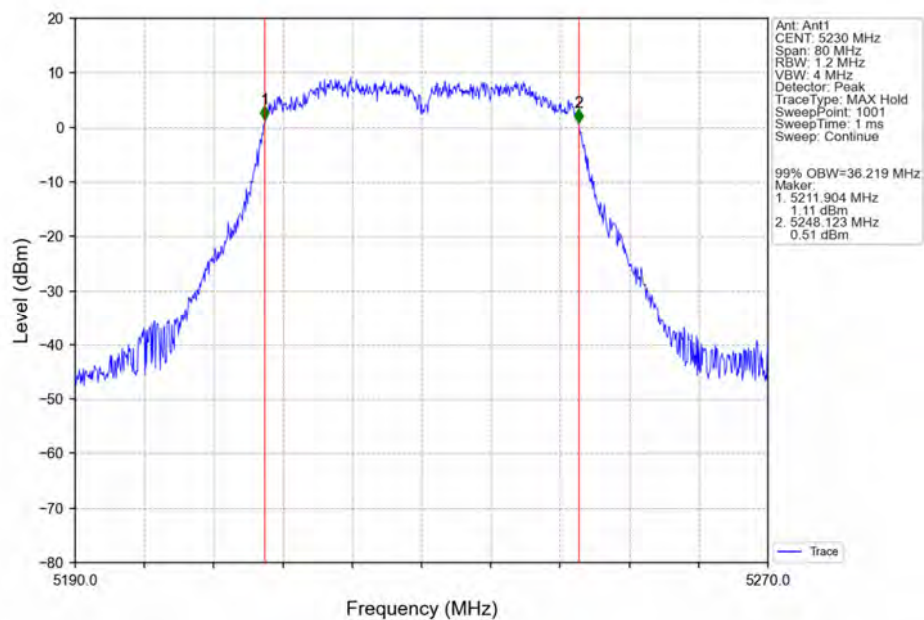
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



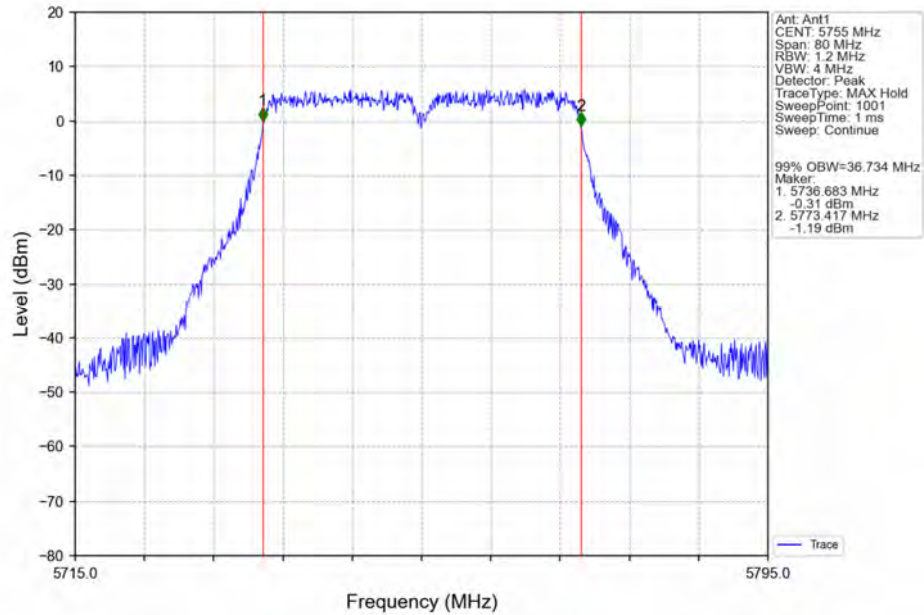
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



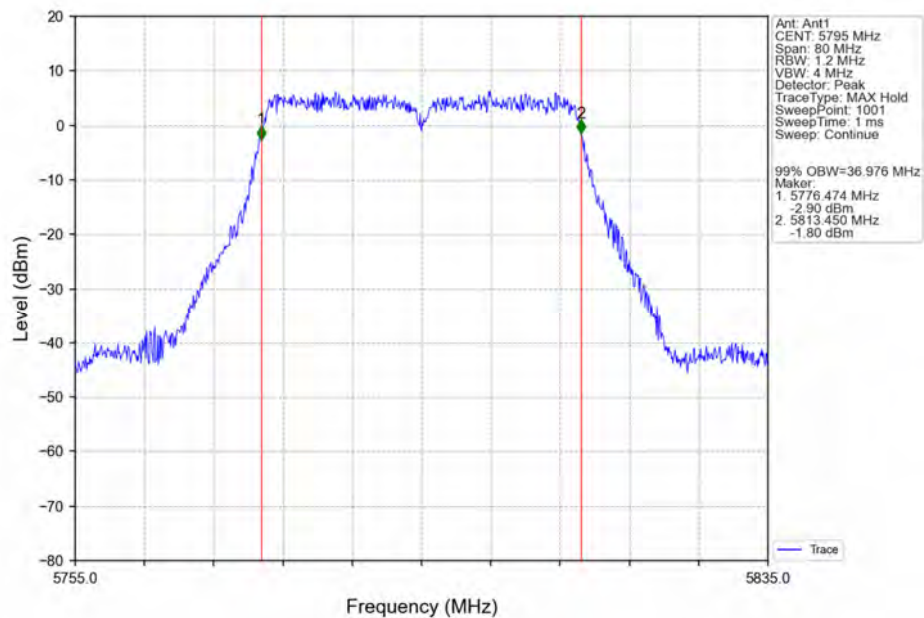
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



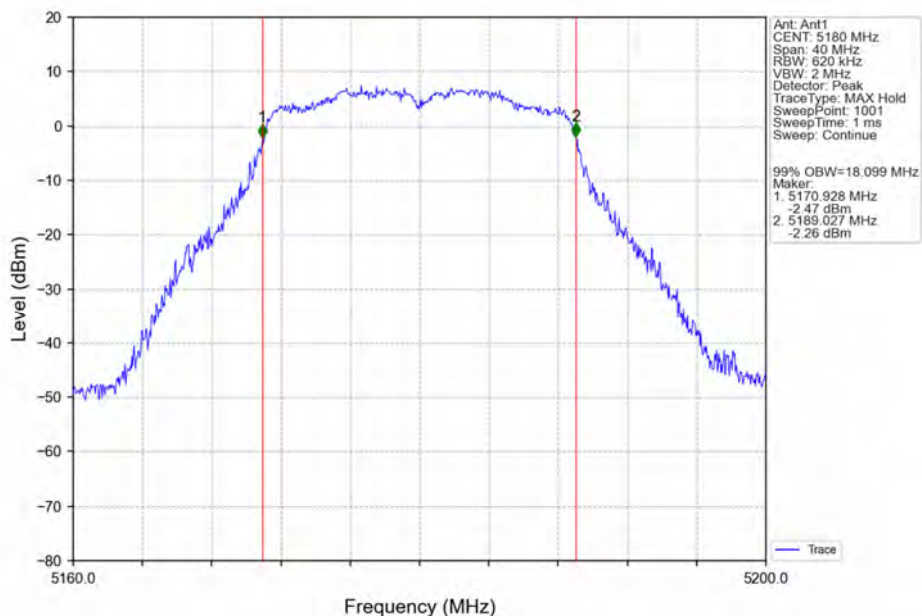
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



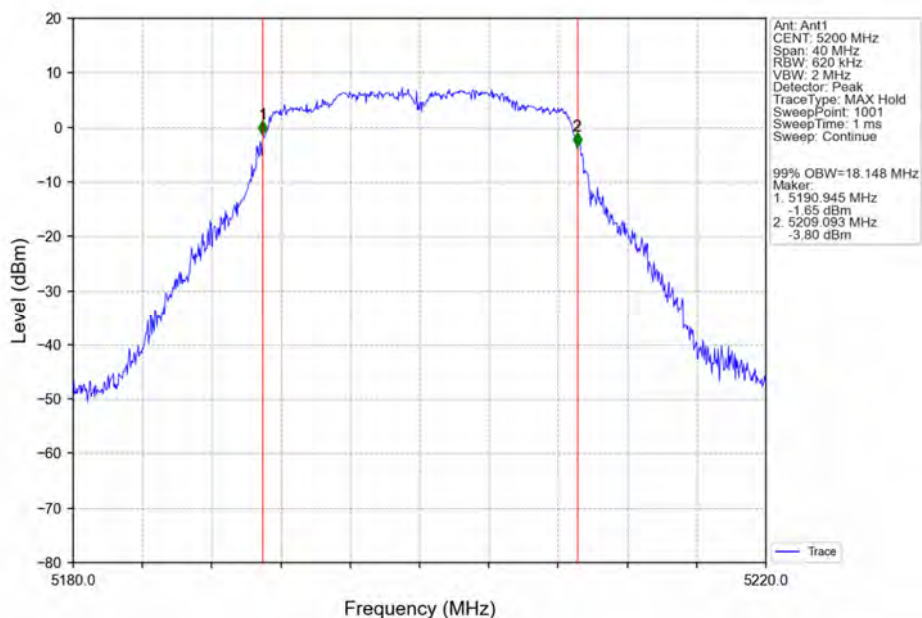
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



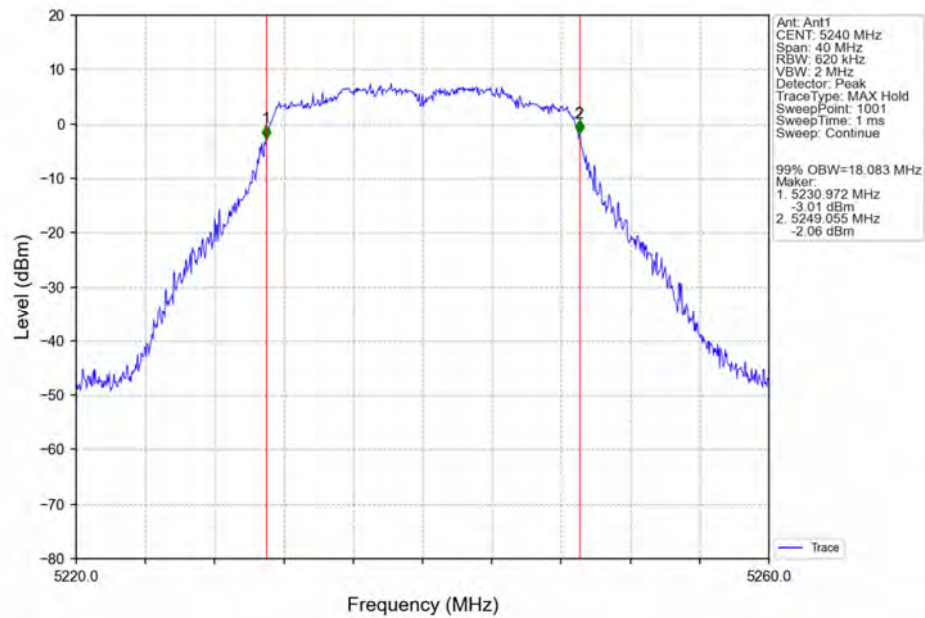
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



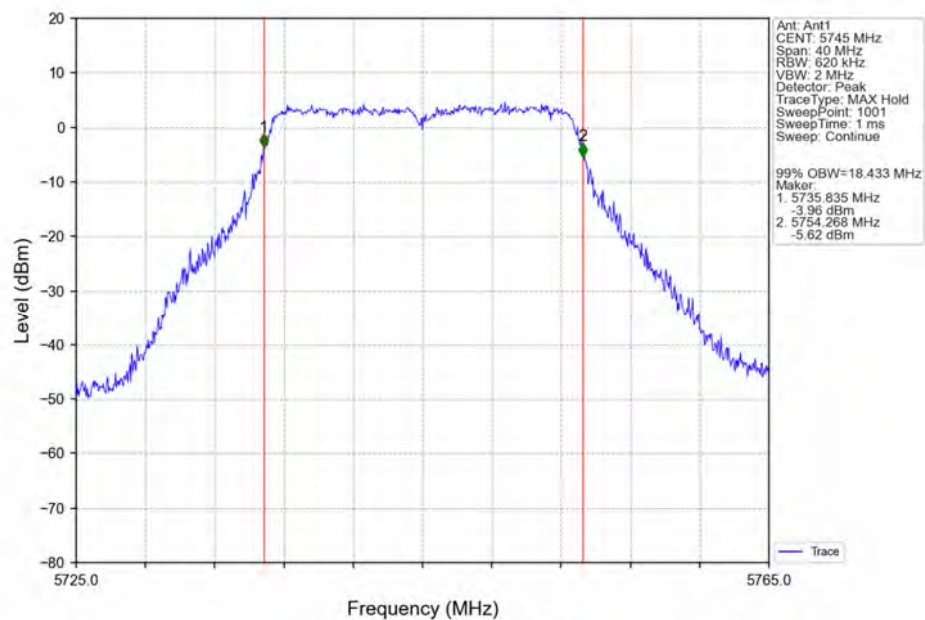
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



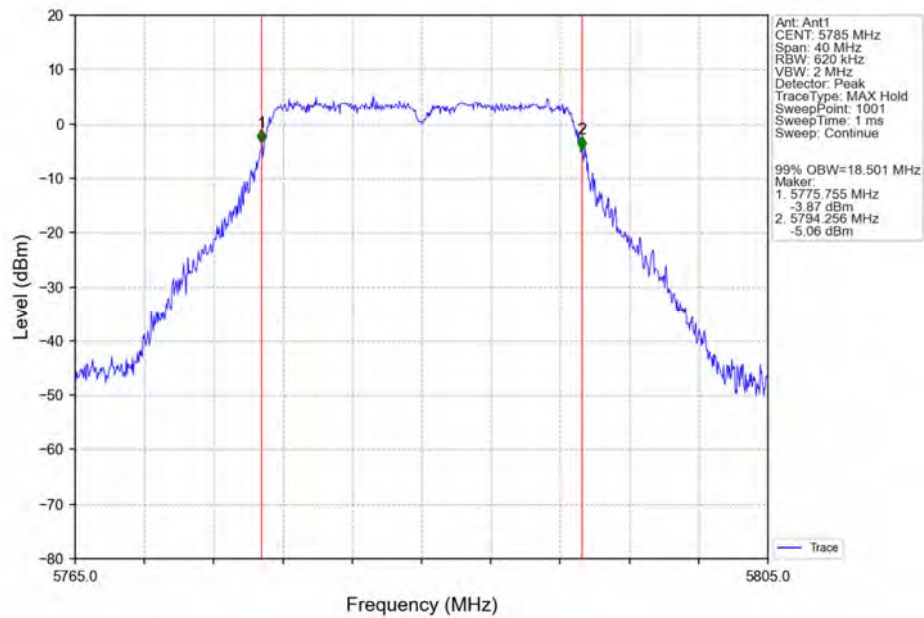
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



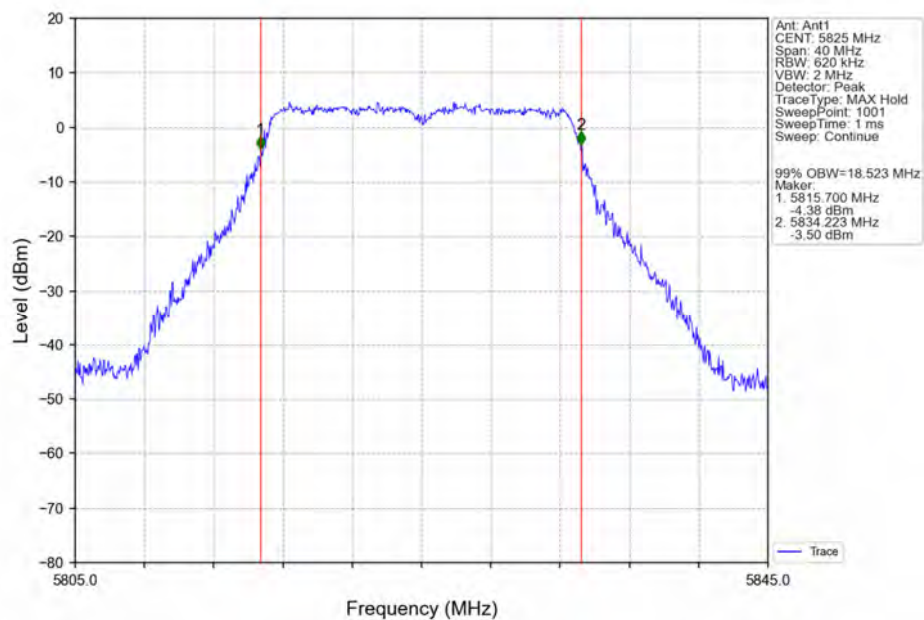
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



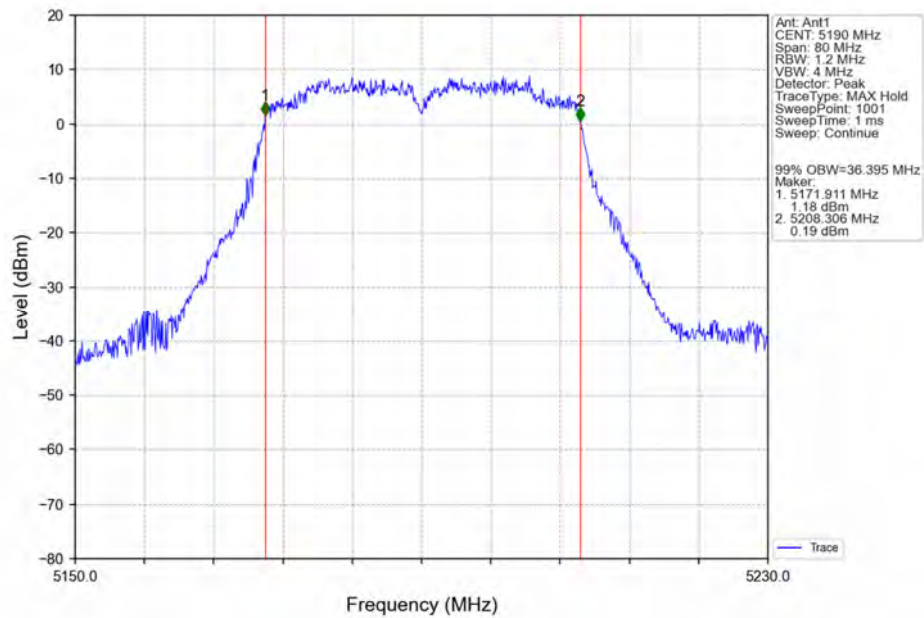
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



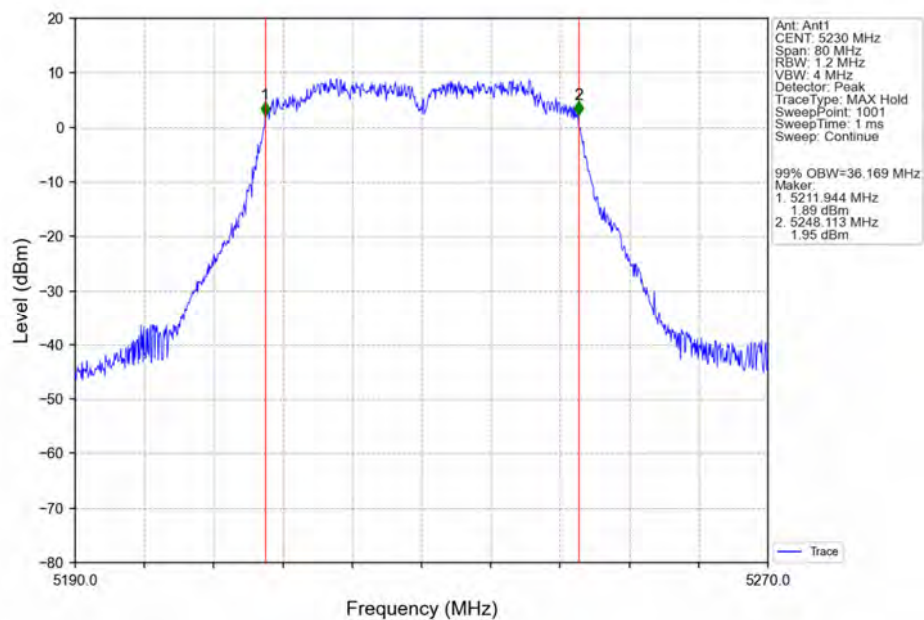
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



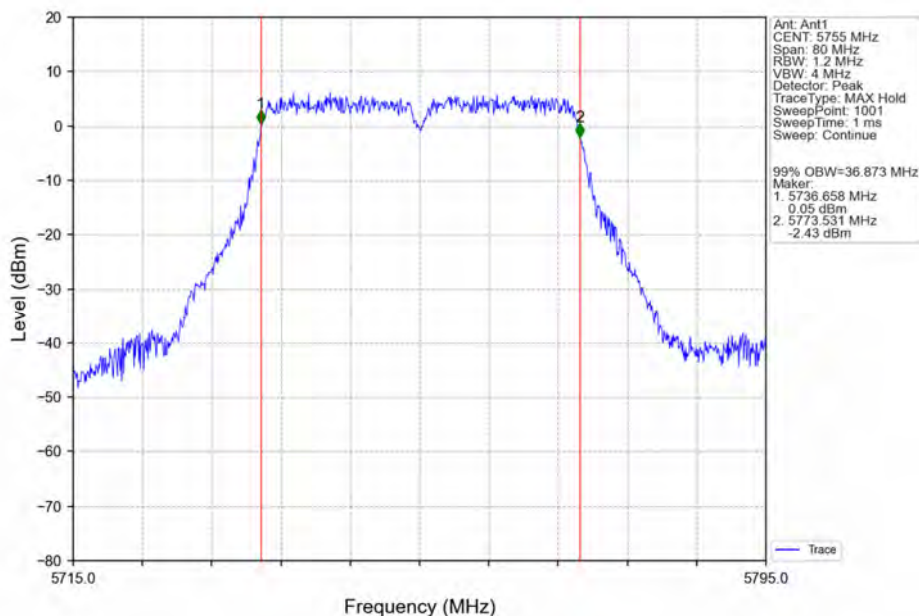
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



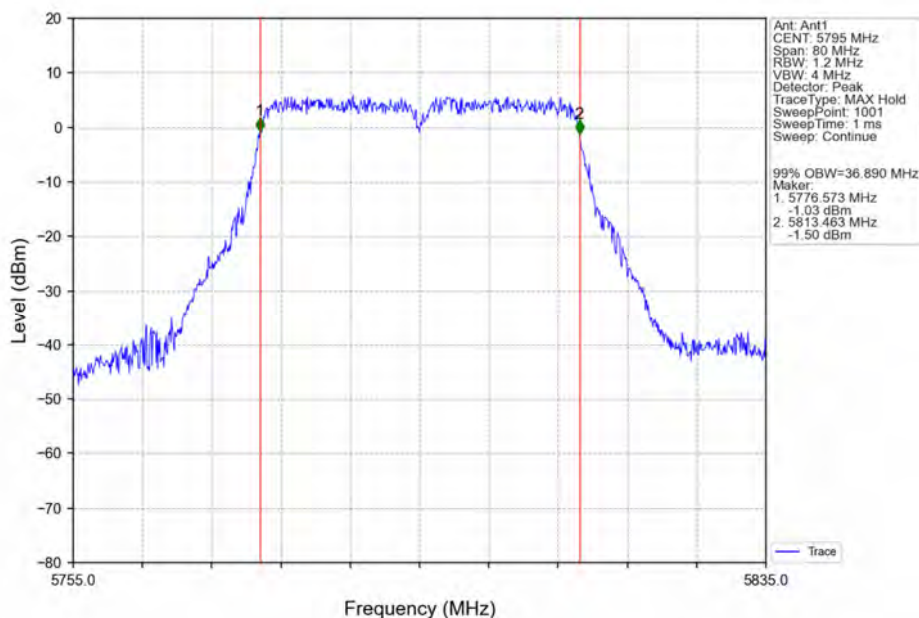
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



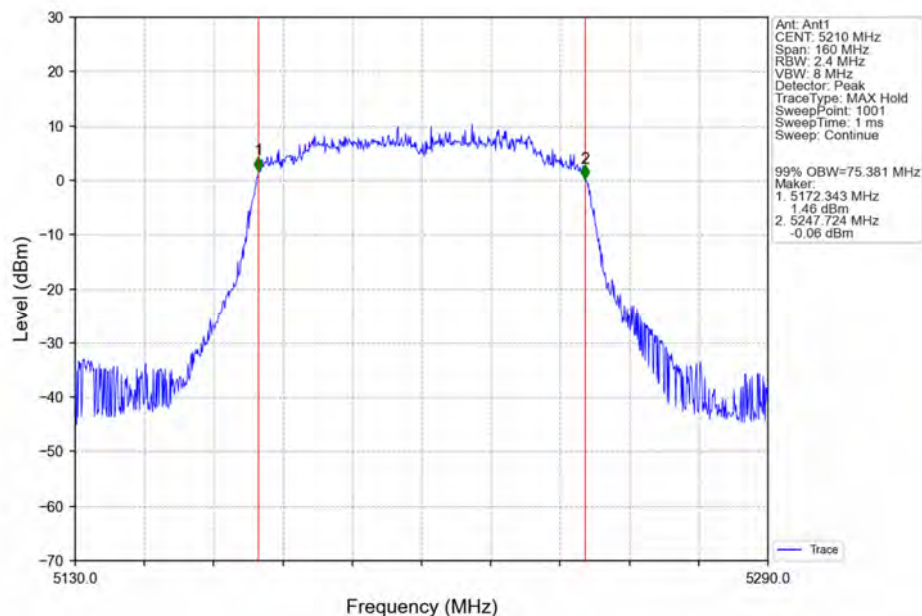
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



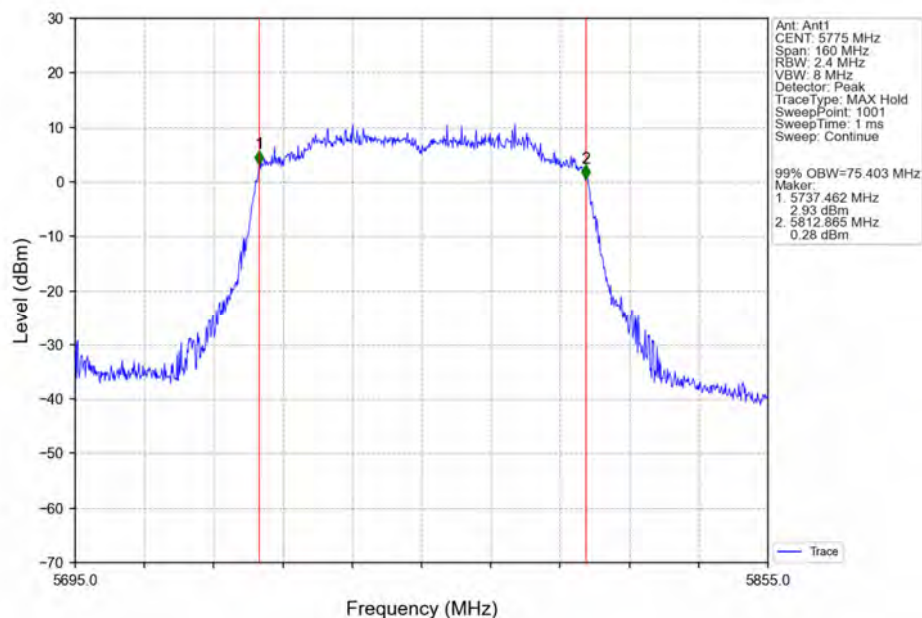
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



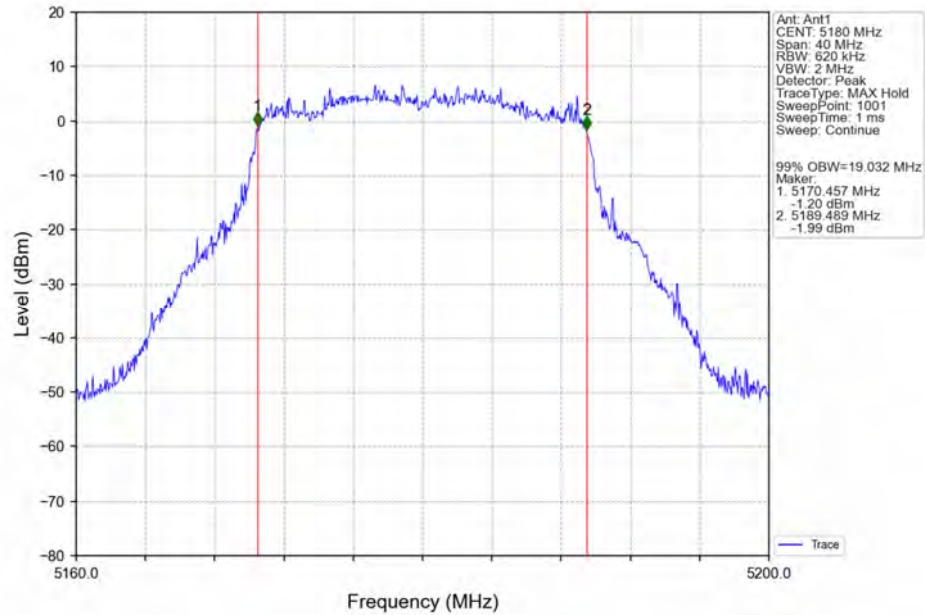
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



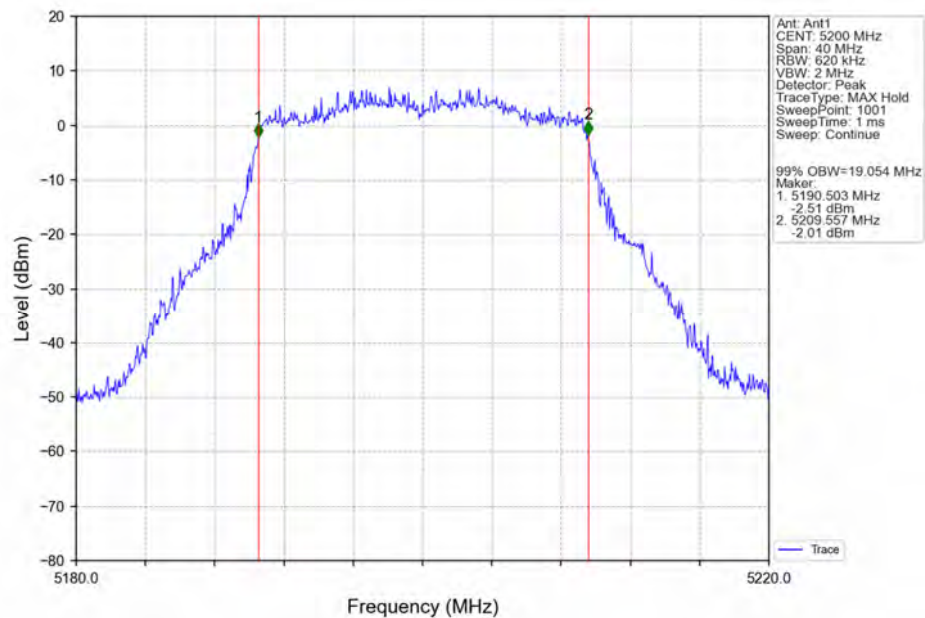
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



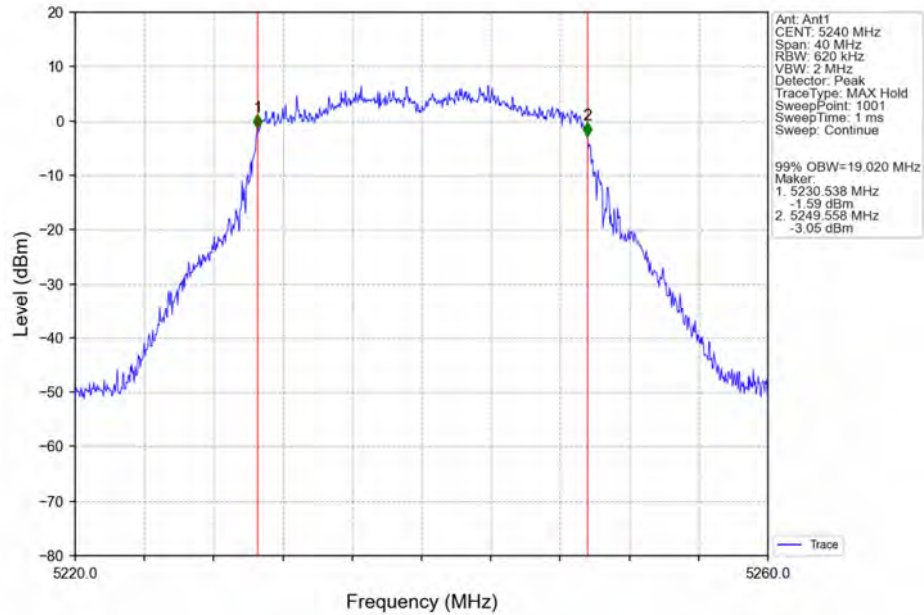
802.11ax(HEW20) LCH_5180MHz_SU_ / Ant1_NTNV



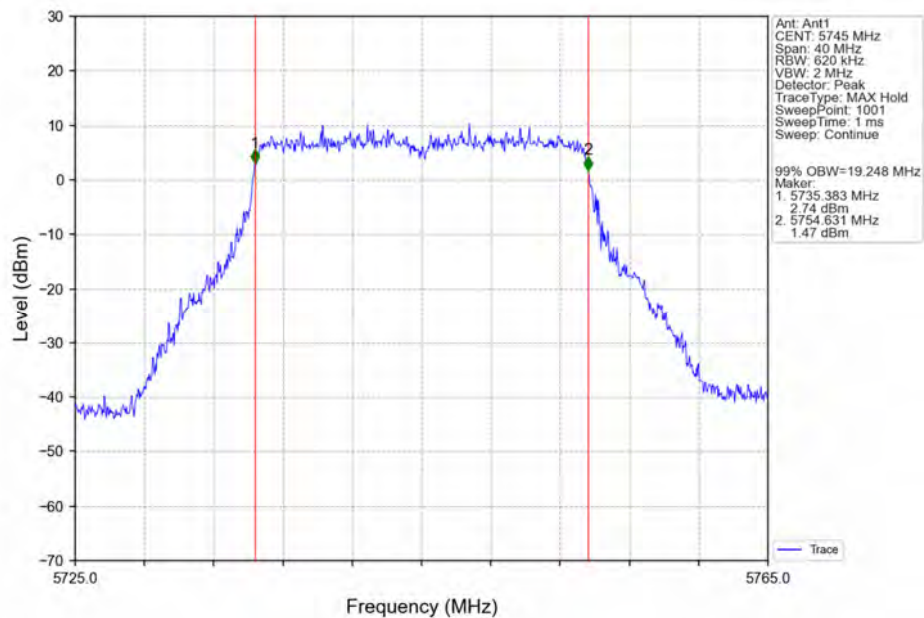
802.11ax(HEW20) MCH_5200MHz_SU_ / Ant1_NTNV



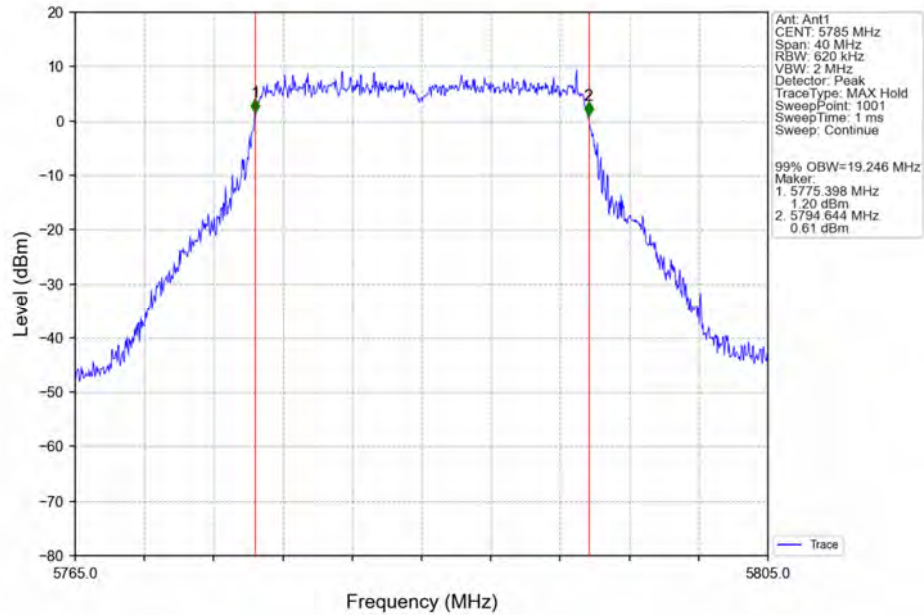
802.11ax(HEW20) HCH_5240MHz_SU_ / Ant1 NTVN



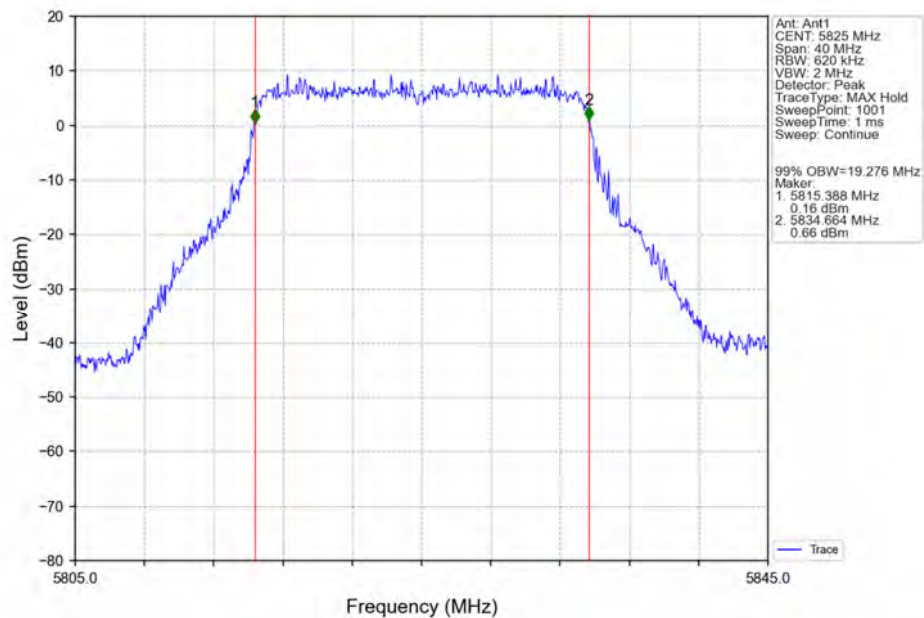
802.11ax(HEW20) LCH_5745MHz_SU_ / Ant1 NTVN



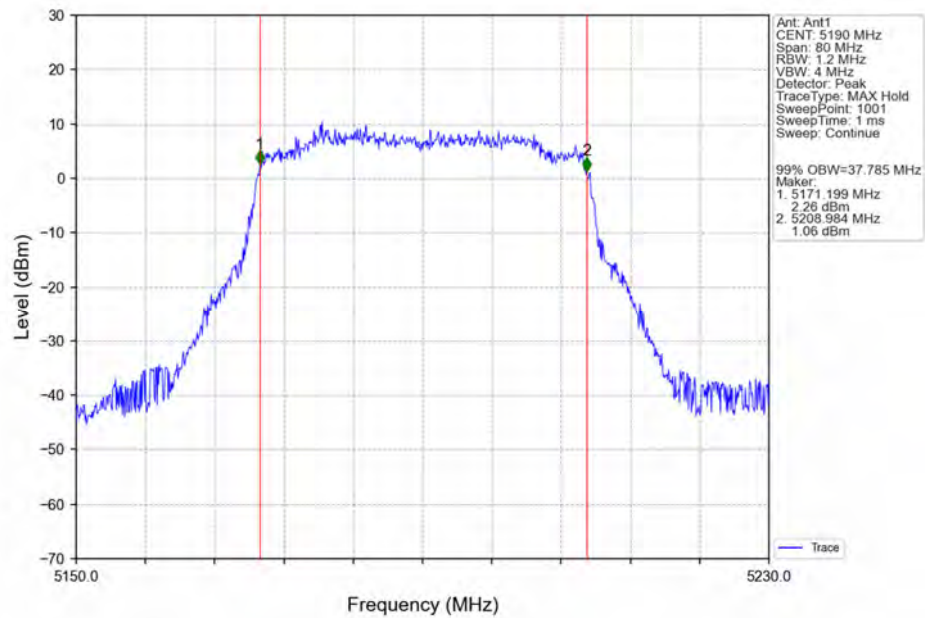
802.11ax(HEW20) MCH_5785MHz_SU_ / Ant1_NTNV



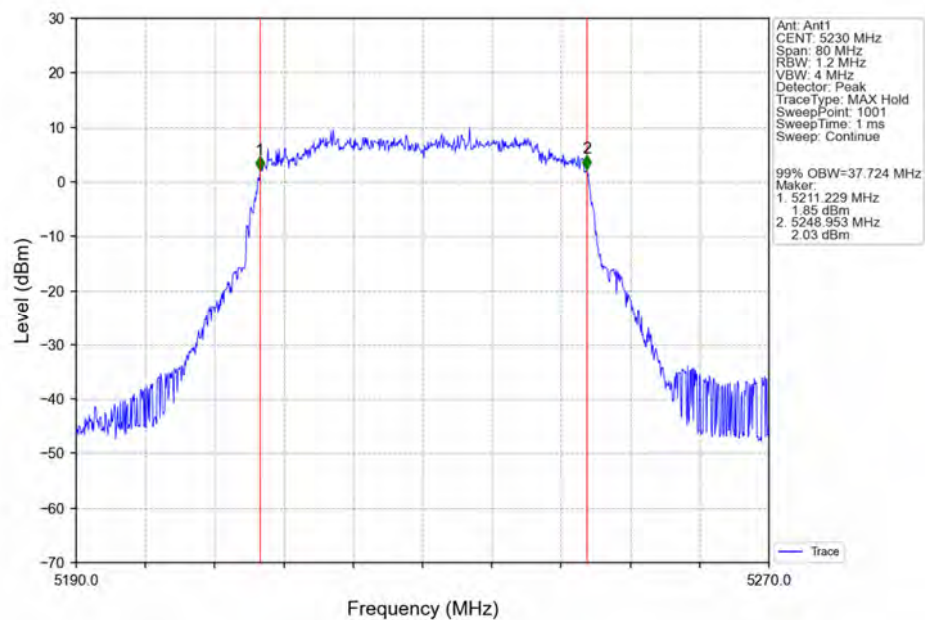
802.11ax(HEW20) HCH_5825MHz_SU_ / Ant1_NTNV



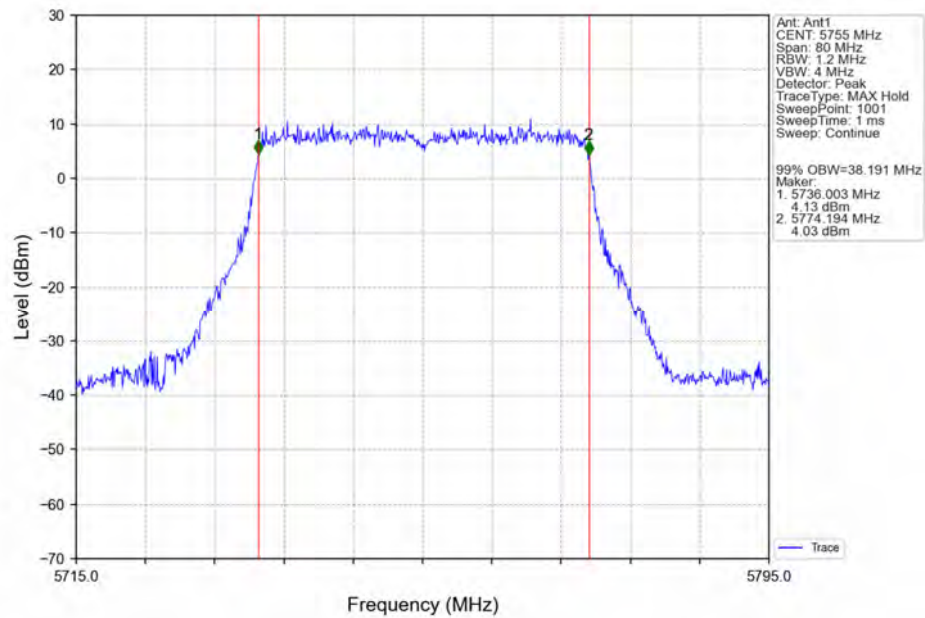
802.11ax(HEW40) LCH_5190MHz_SU_ / Ant1_NTNV



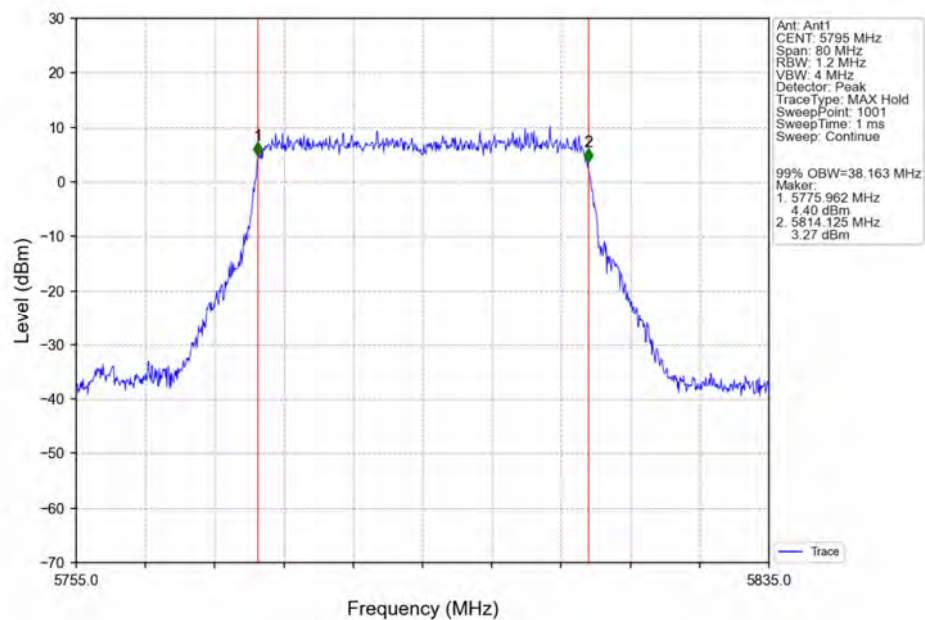
802.11ax(HEW40) HCH_5230MHz_SU_ / Ant1_NTNV



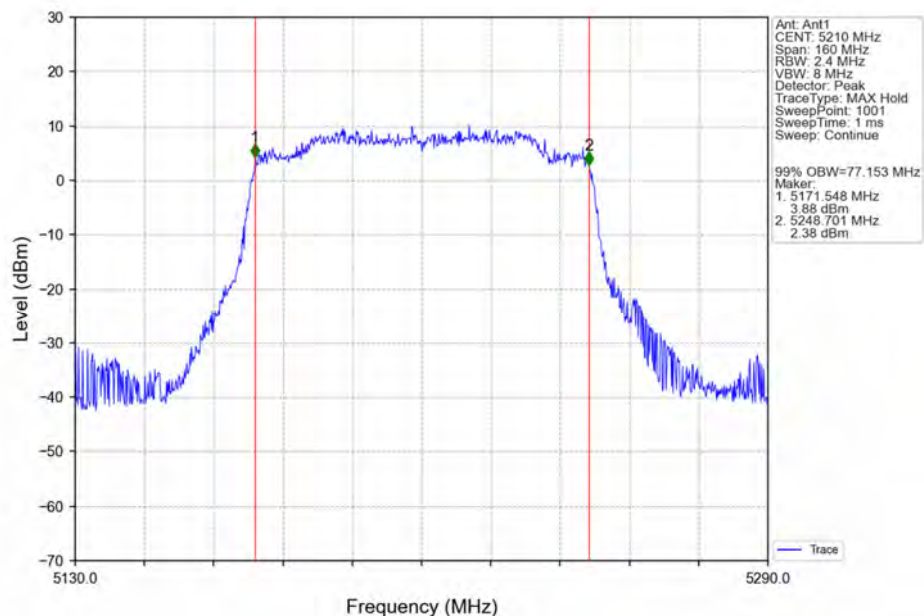
802.11ax(HEW40) LCH_5755MHz_SU_ / Ant1_NTNV



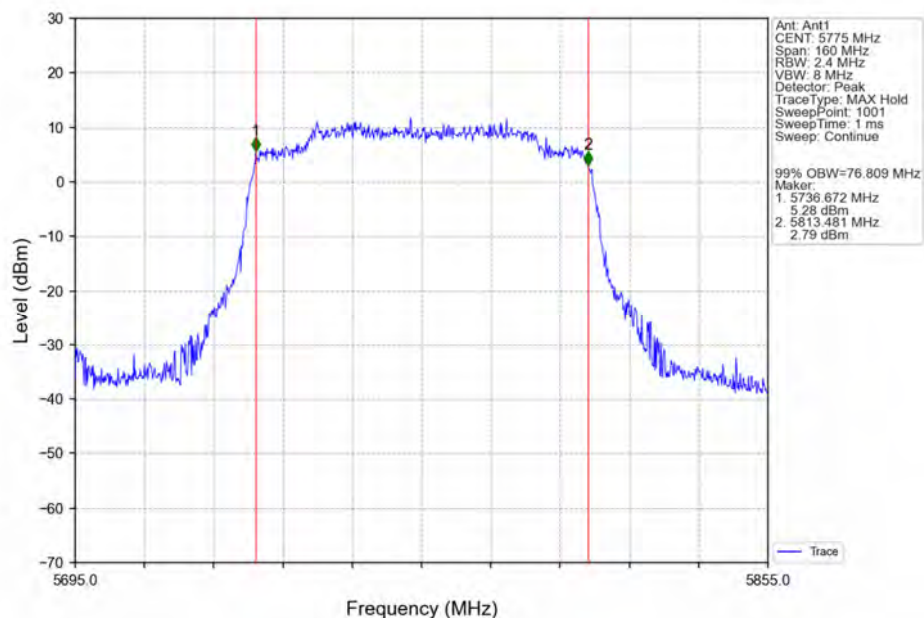
802.11ax(HEW40) HCH_5795MHz_SU_ / Ant1_NTNV



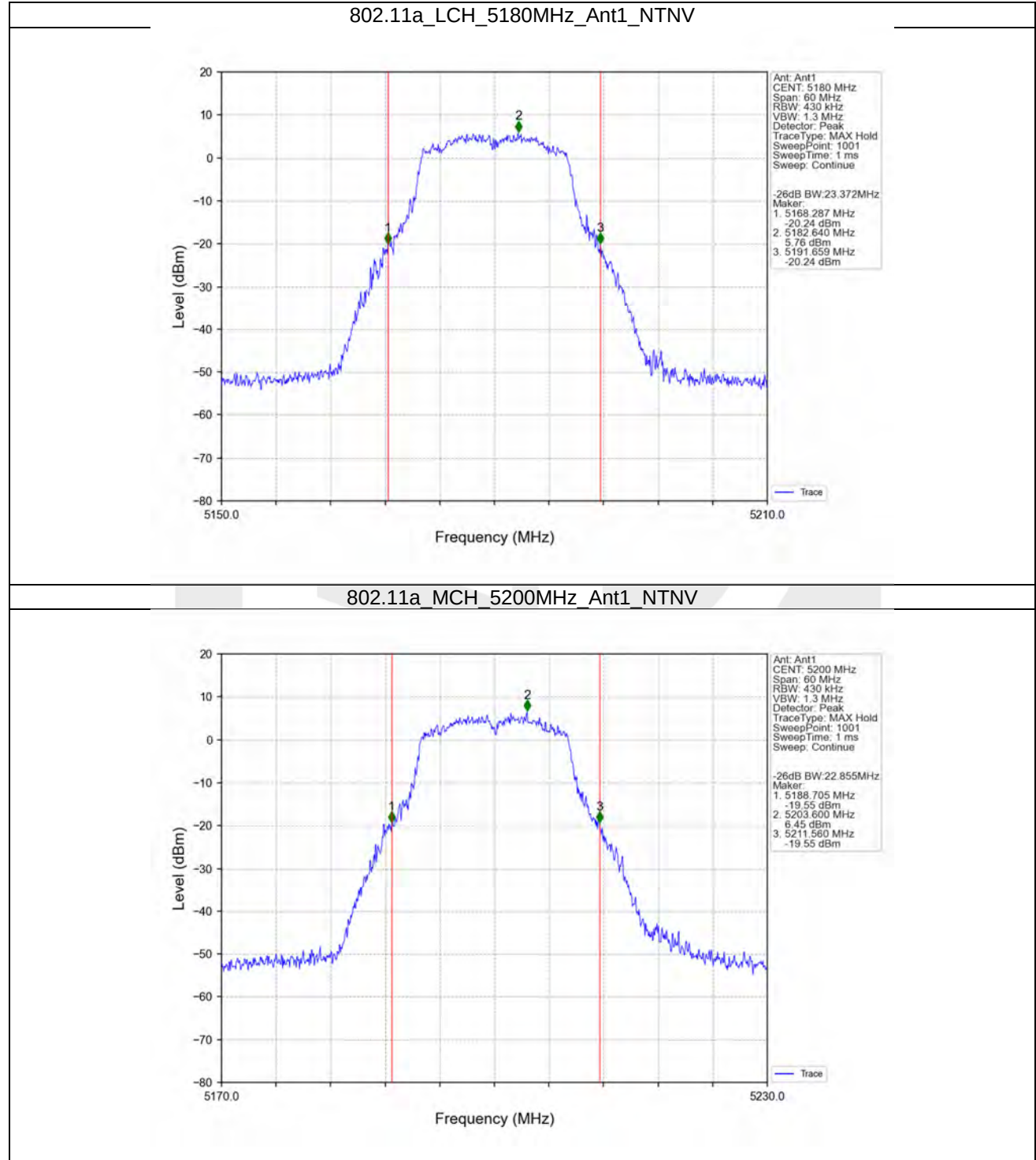
802.11ax(HEW80) MCH_5210MHz_SU / Ant1_NTNV



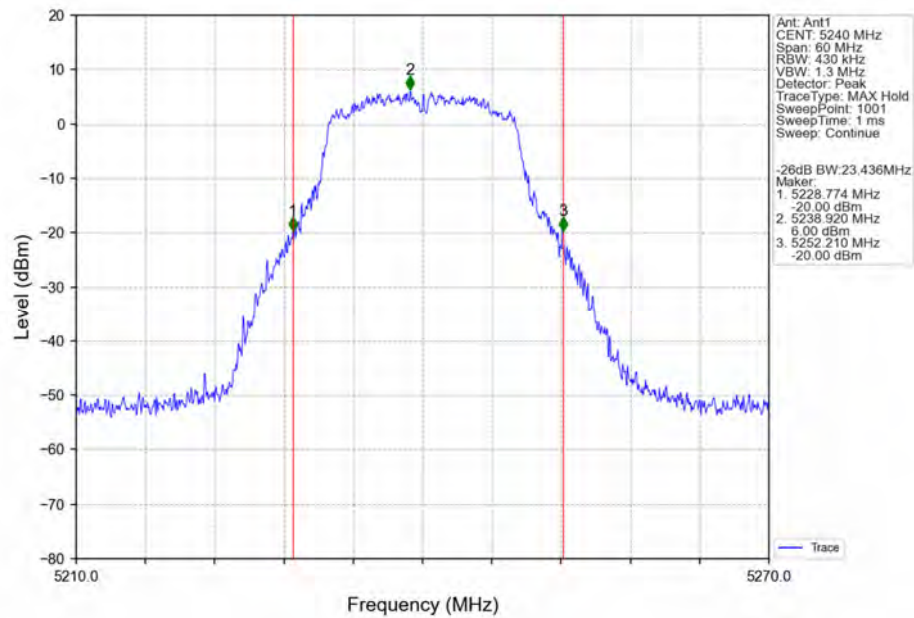
802.11ax(HEW80) MCH_5775MHz_SU / Ant1_NTNV



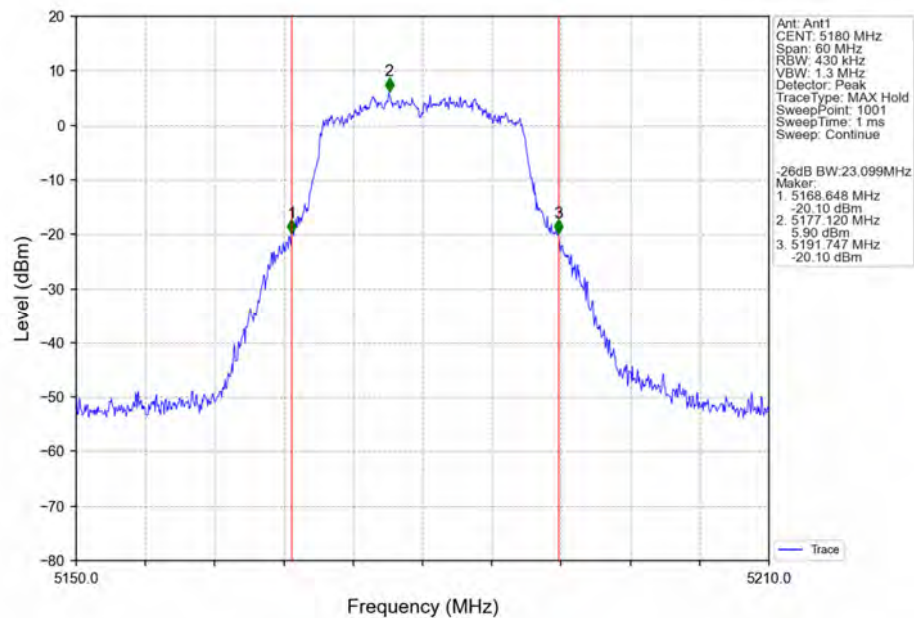
2.2.2 26dB BW



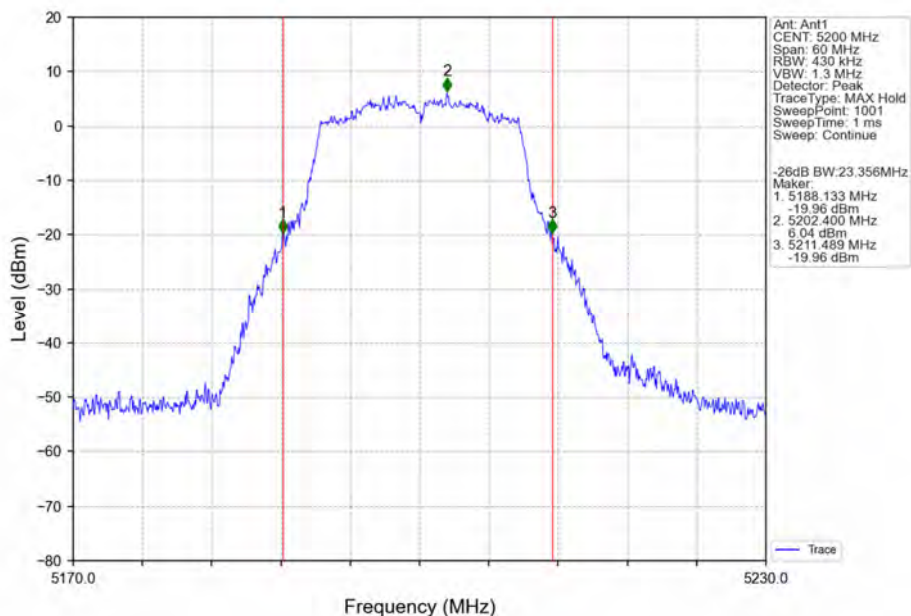
802.11a_HCH_5240MHz_Ant1_NTNV



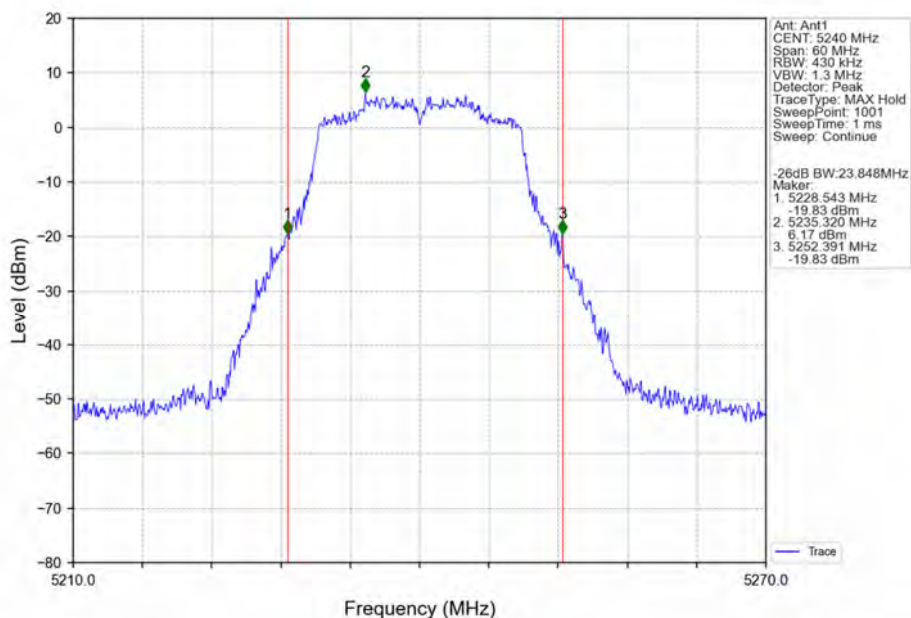
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



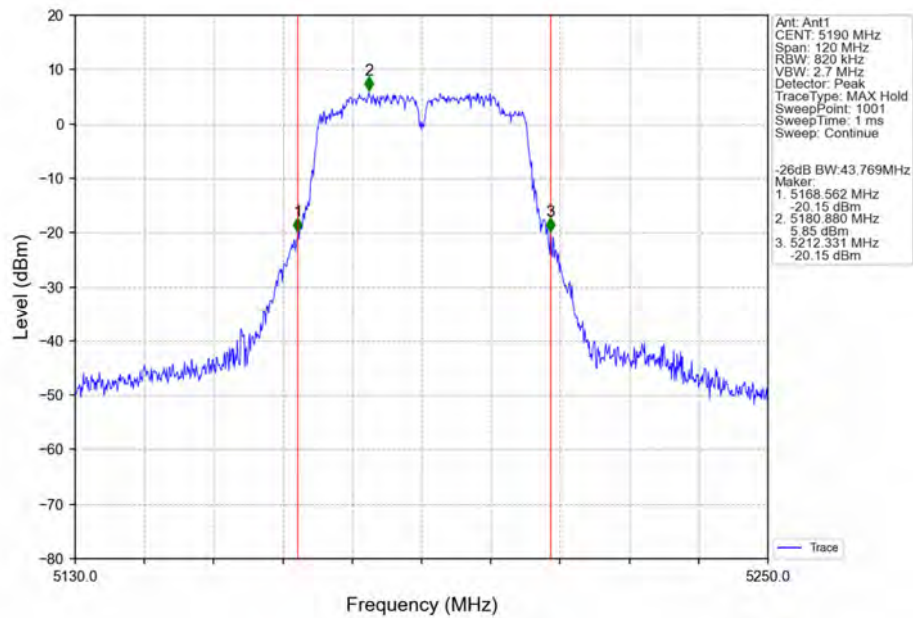
802.11n(HT20)_MCH 5200MHz_Ant1_NTNV



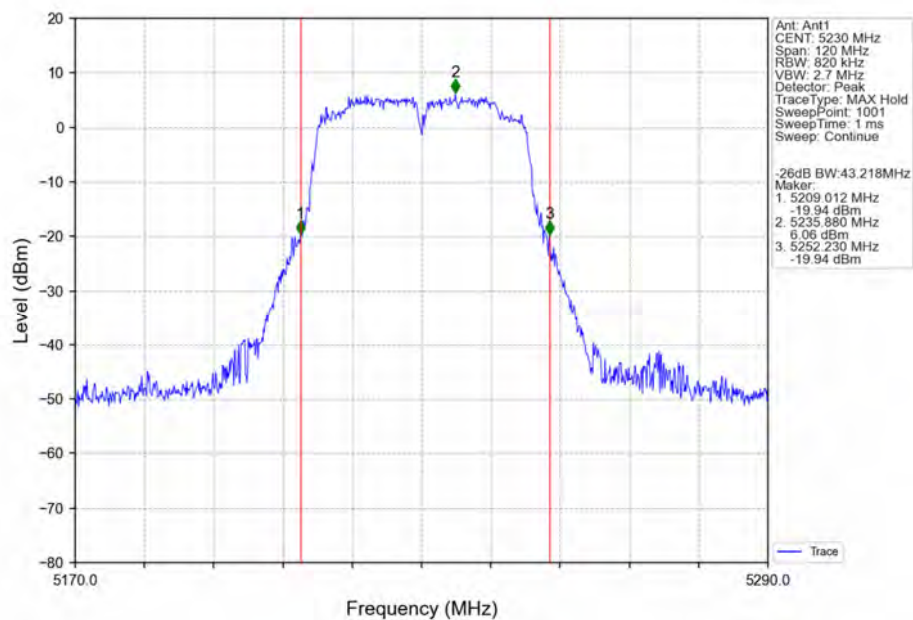
802.11n(HT20)_HCH 5240MHz_Ant1_NTNV



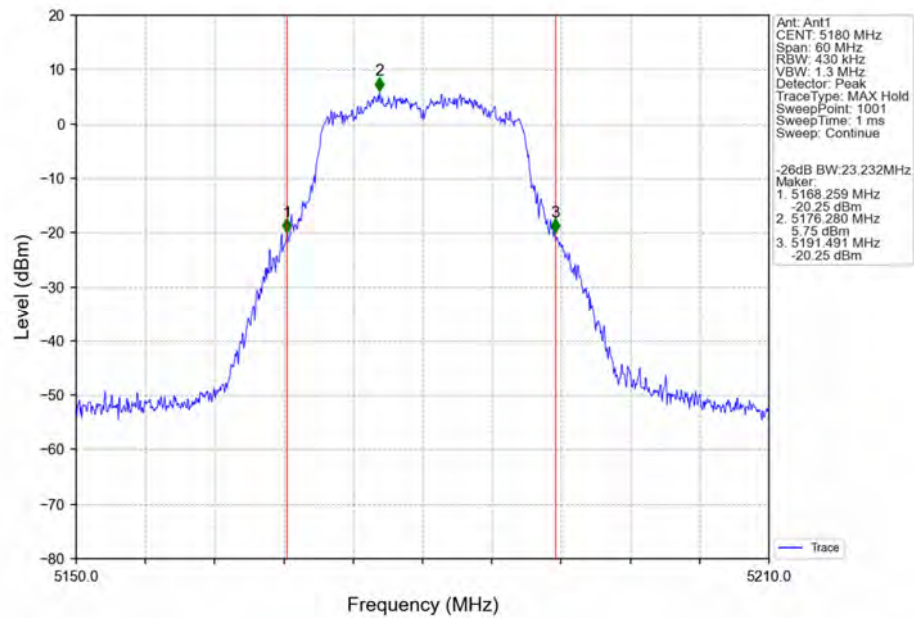
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



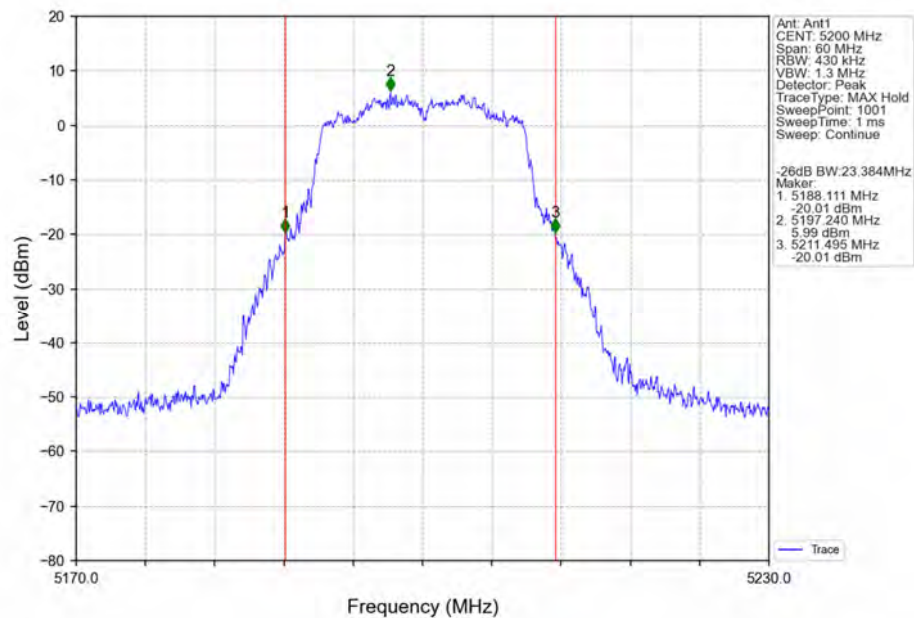
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



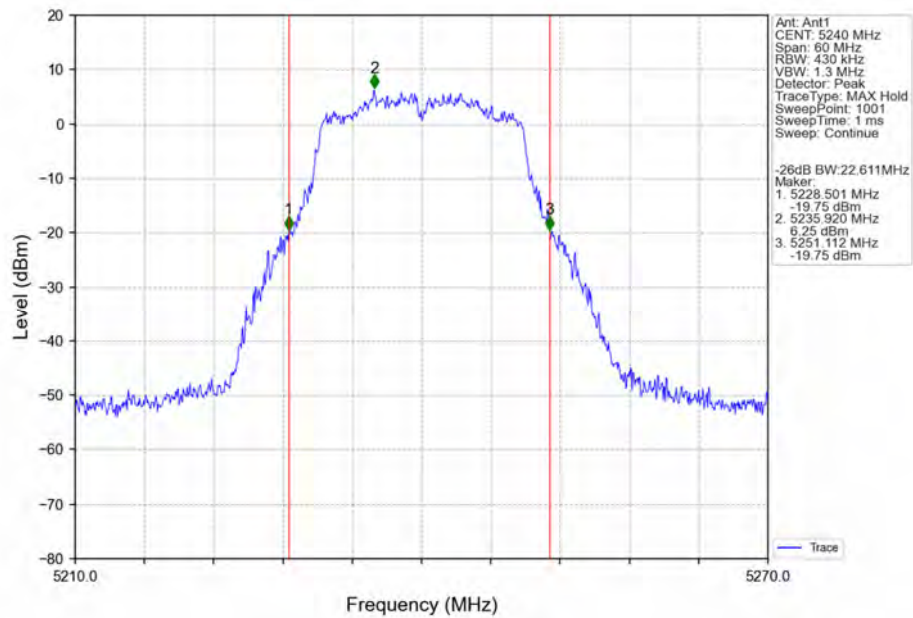
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



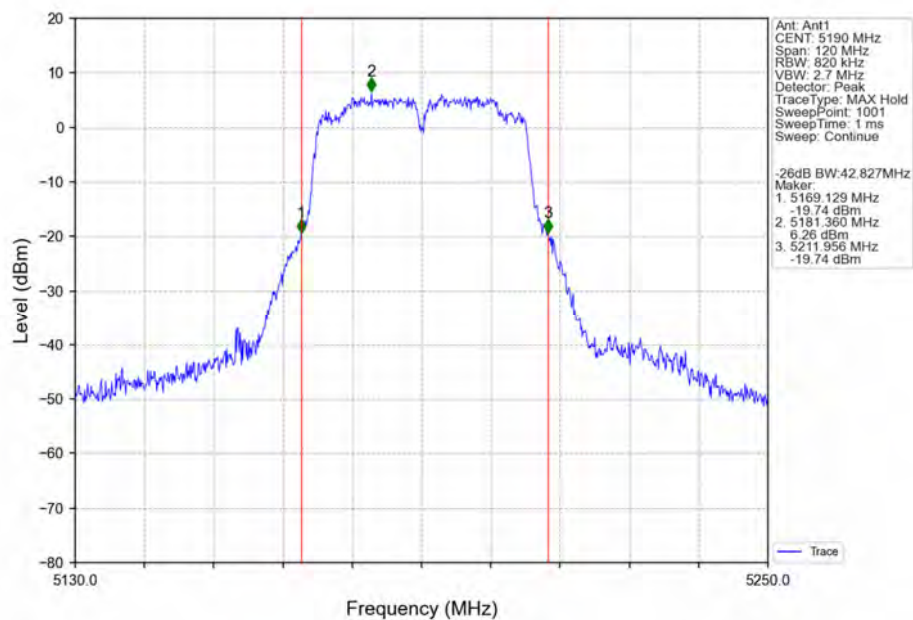
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



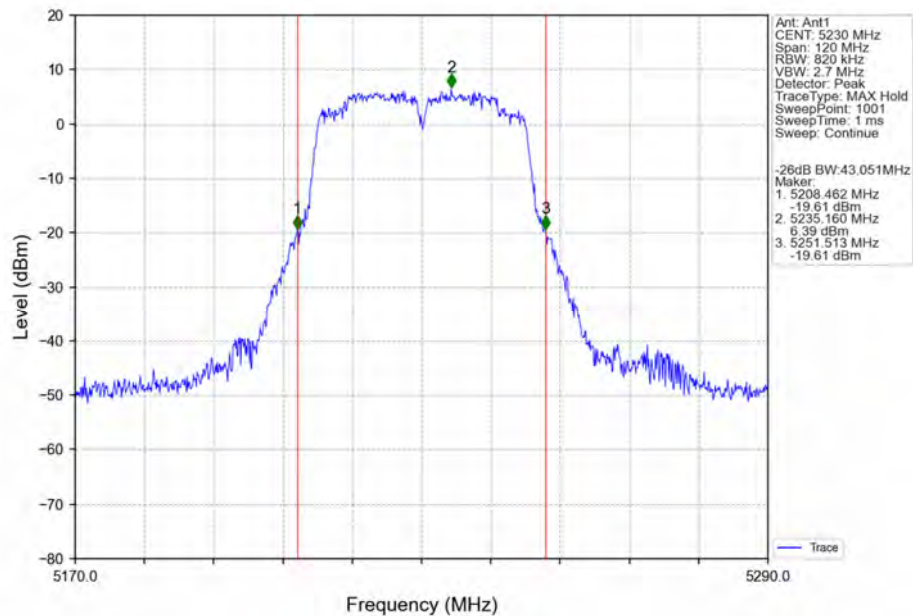
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



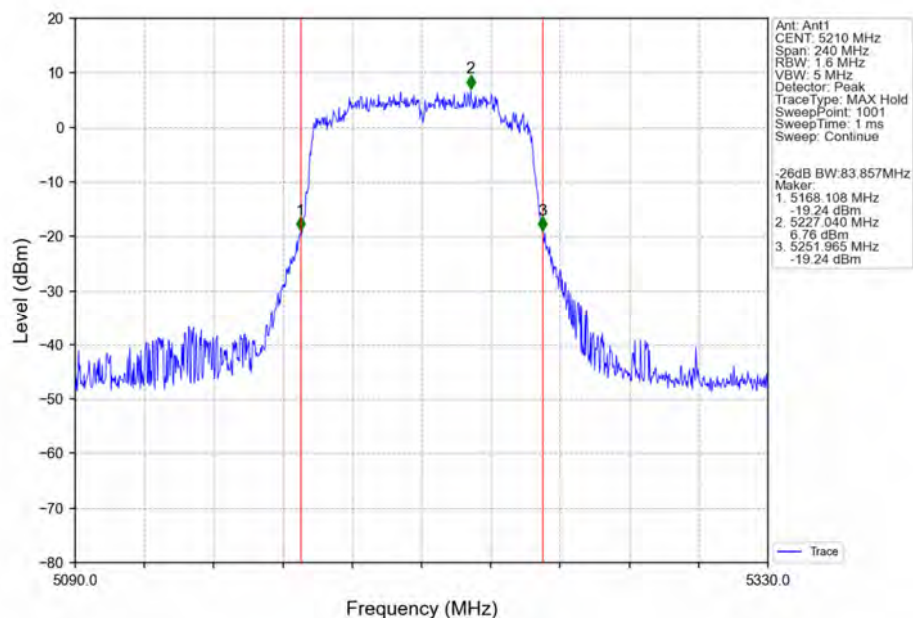
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



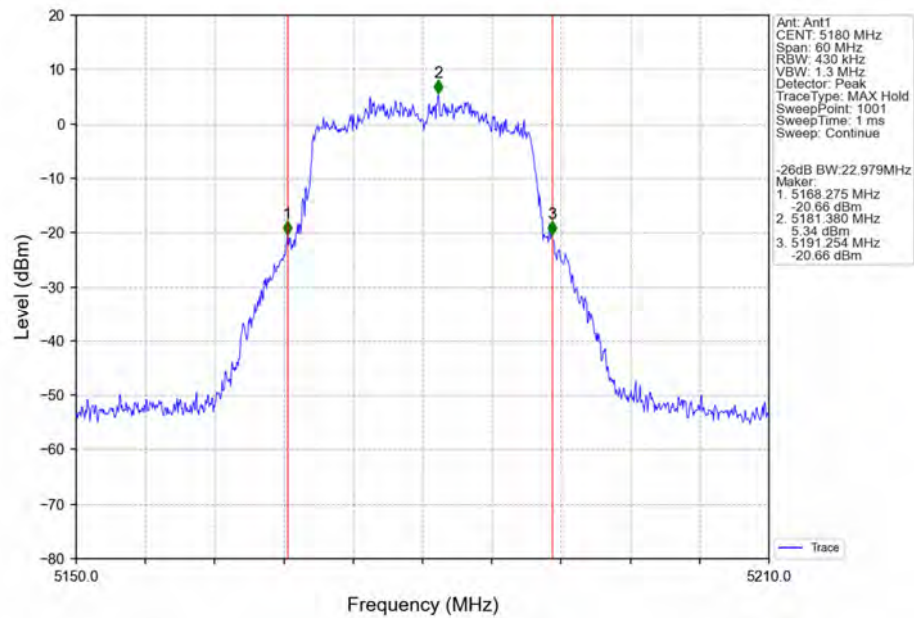
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



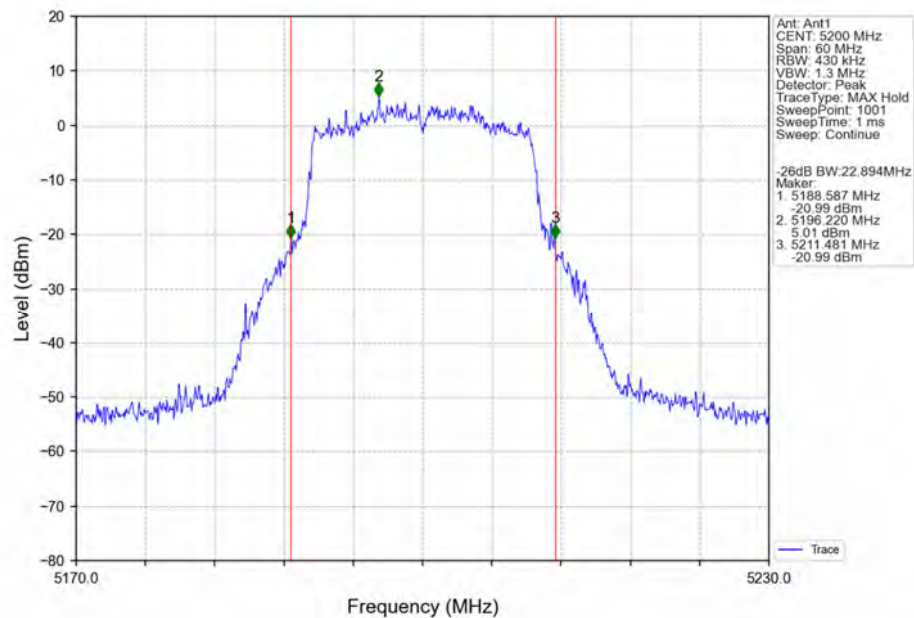
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



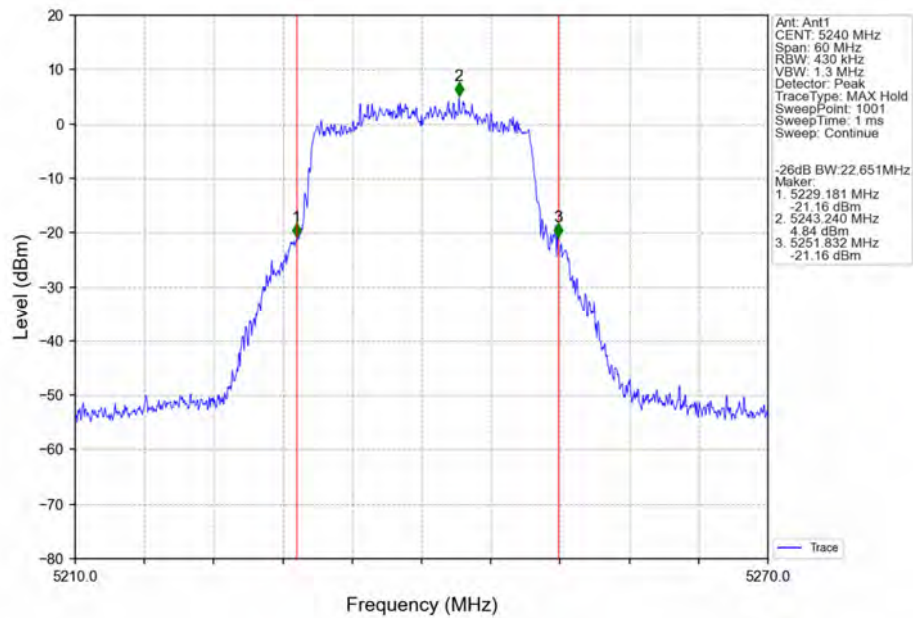
802.11ax(HEW20) LCH_5180MHz_SU_ / Ant1_NTNV



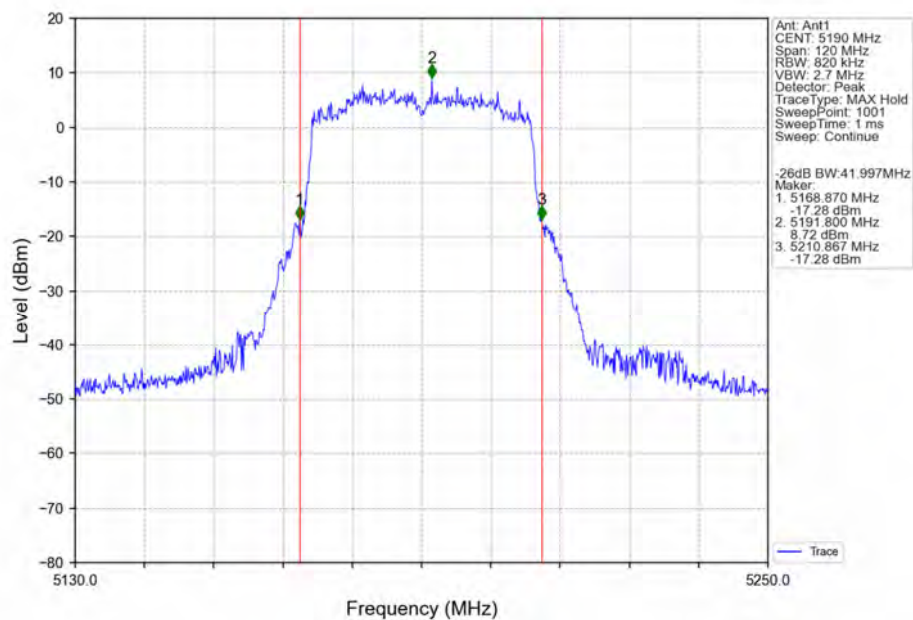
802.11ax(HEW20) MCH_5200MHz_SU_ / Ant1_NTNV



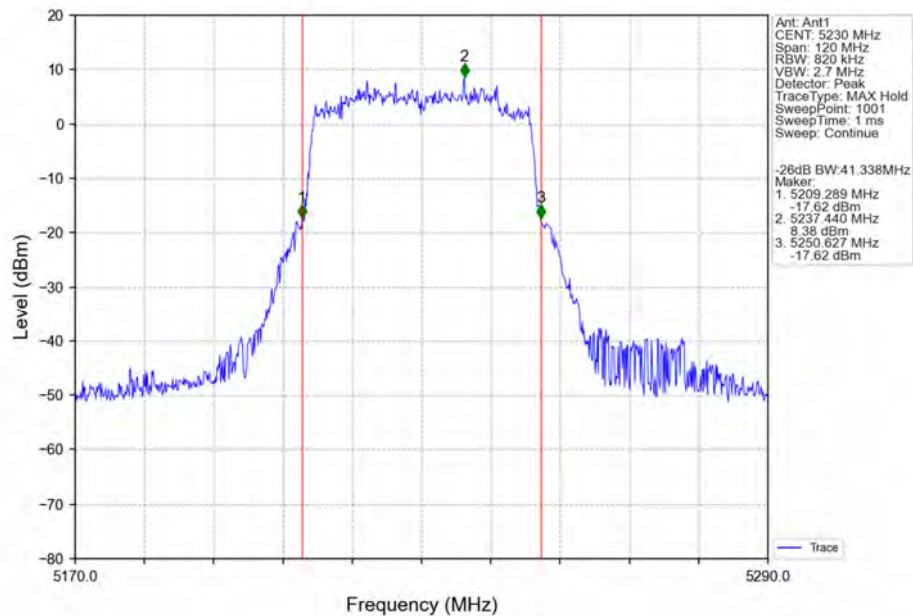
802.11ax(HEW20) HCH_5240MHz_SU_ / Ant1 NTVN



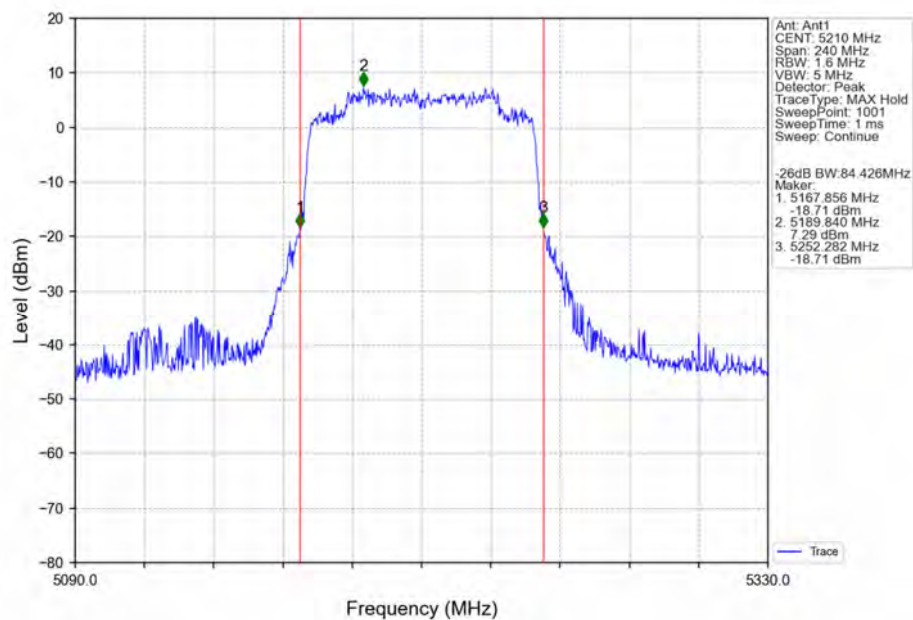
802.11ax(HEW40) LCH_5190MHz_SU_ / Ant1 NTVN



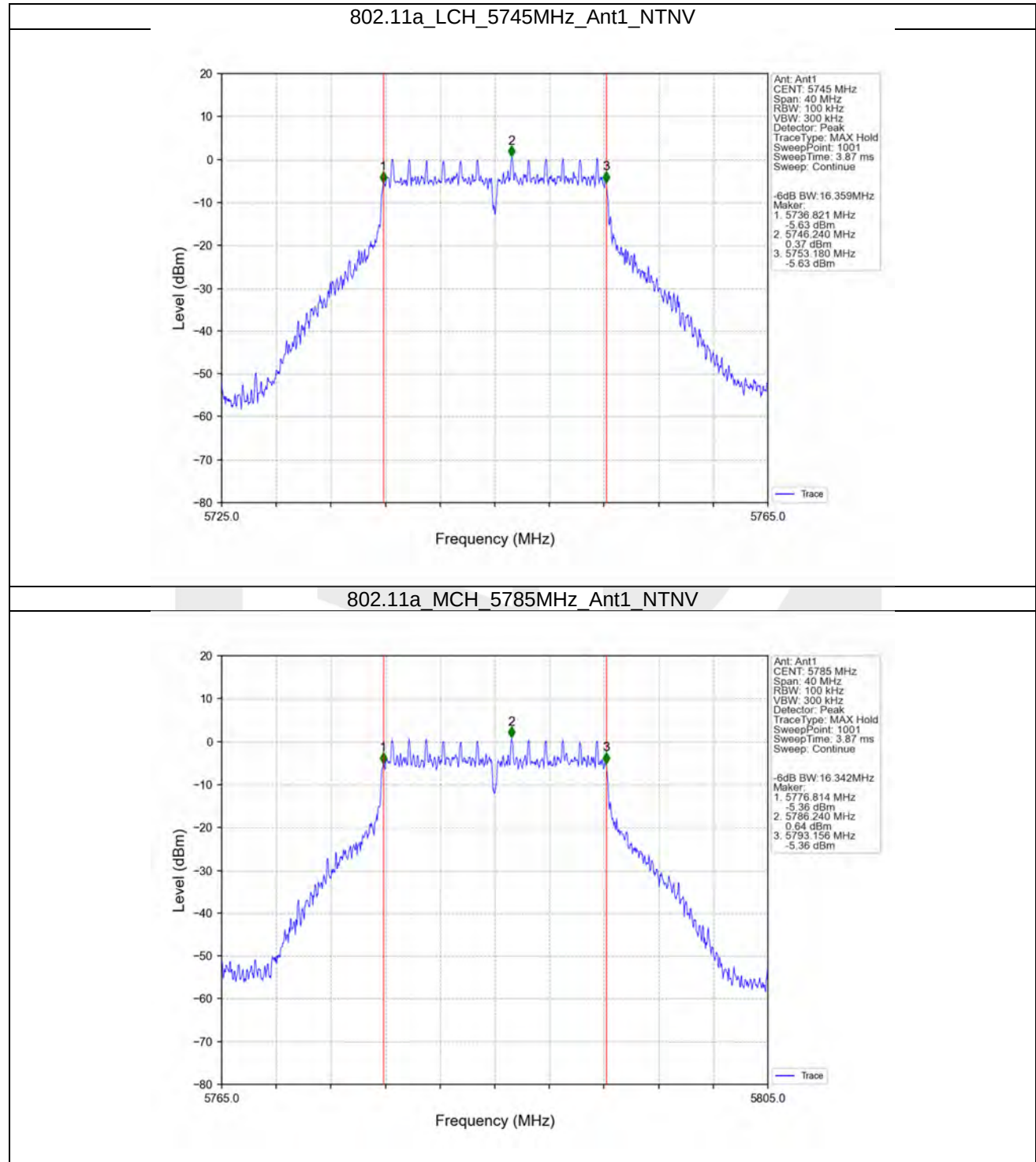
802.11ax(HEW40) HCH_5230MHz_SU_ / _Ant1_NTNV



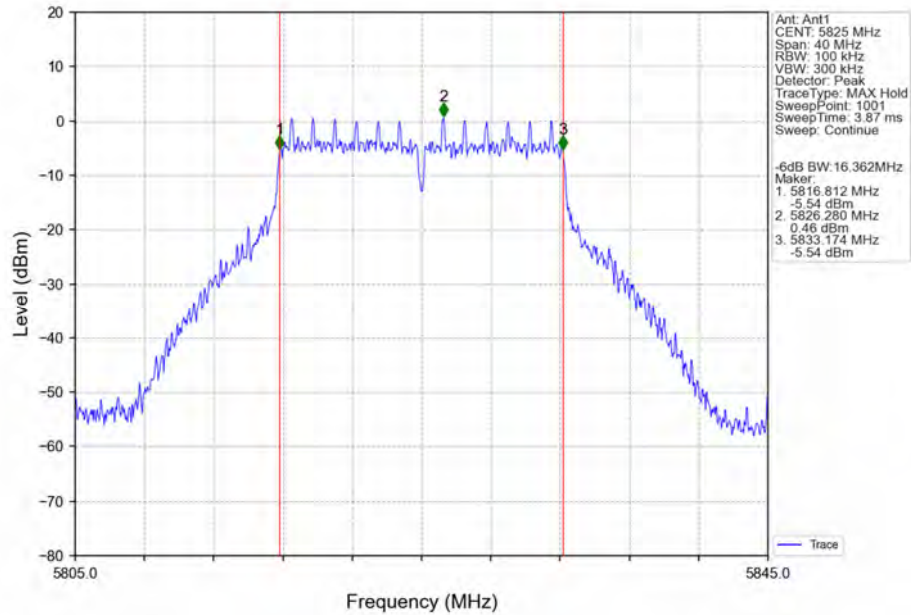
802.11ax(HEW80) MCH_5210MHz_SU_ / _Ant1_NTNV



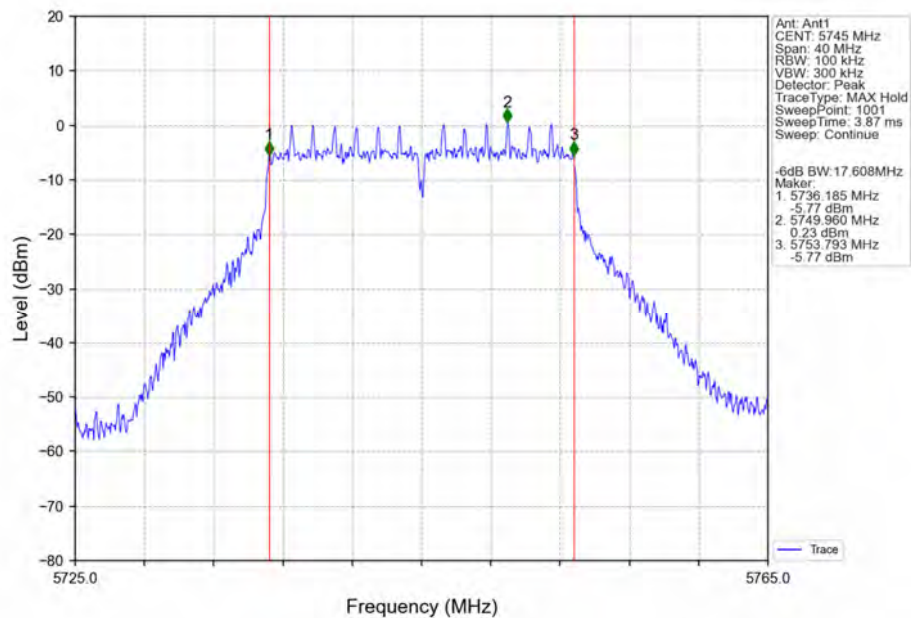
2.2.3 6dB BW



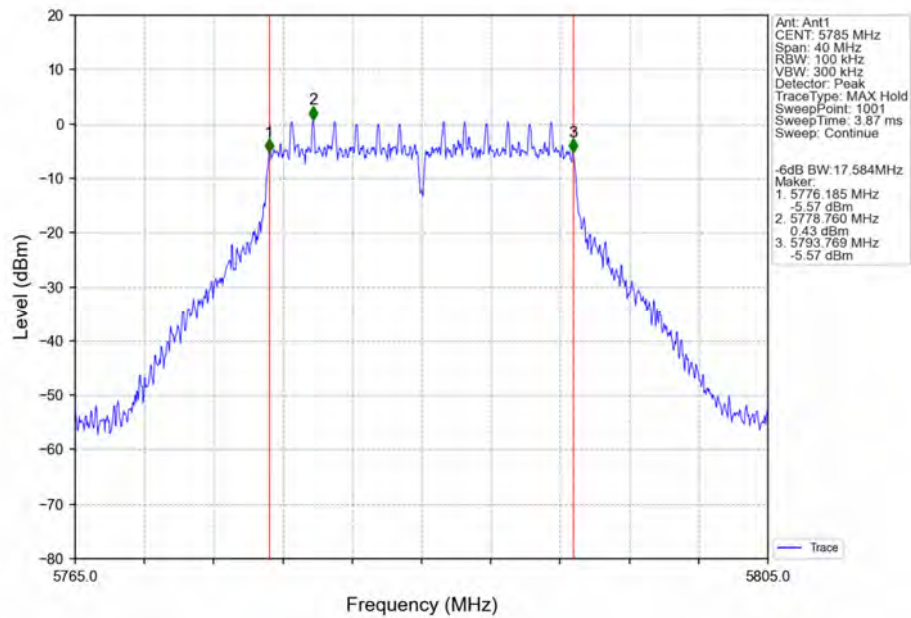
802.11a_HCH_5825MHz_Ant1_NTNV



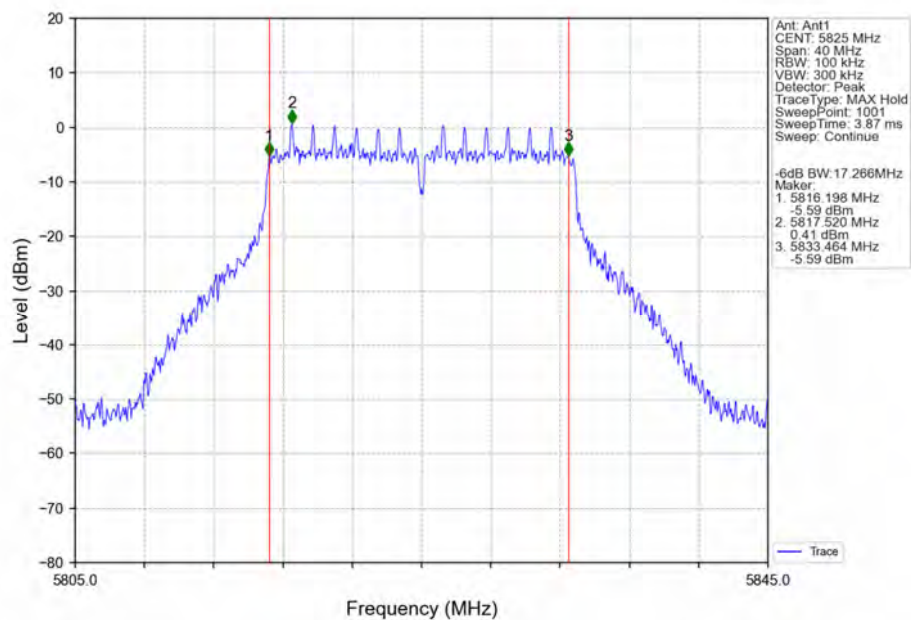
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



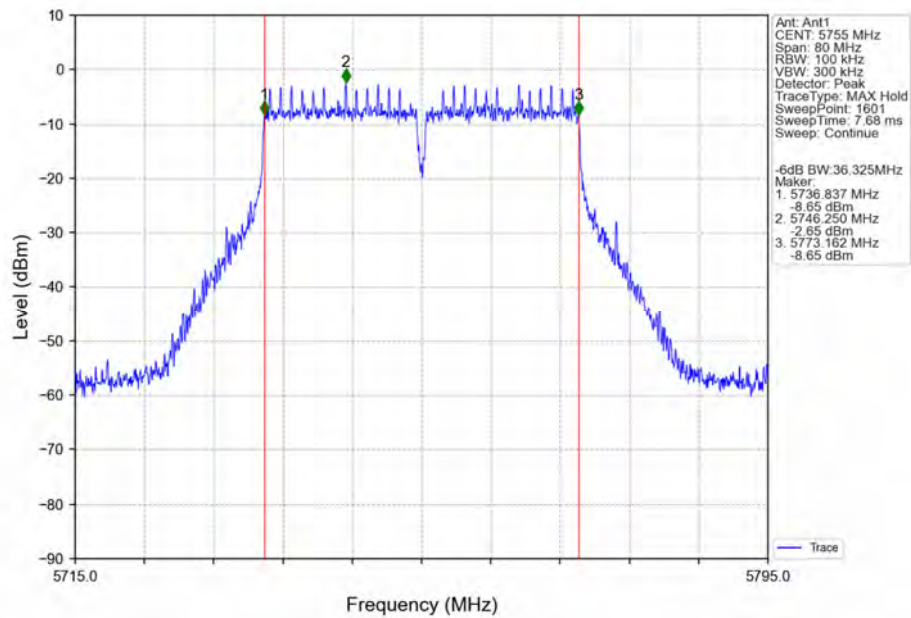
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



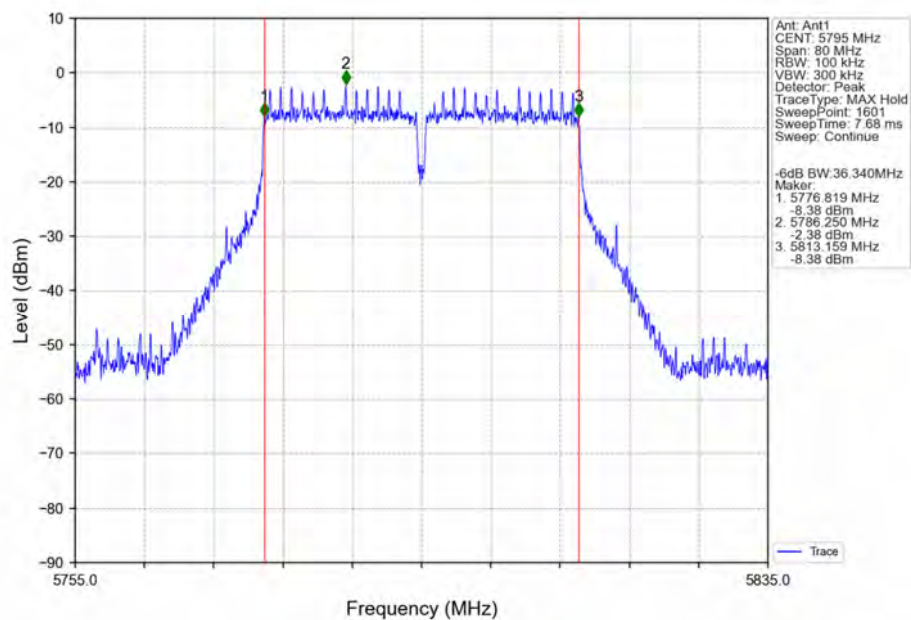
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



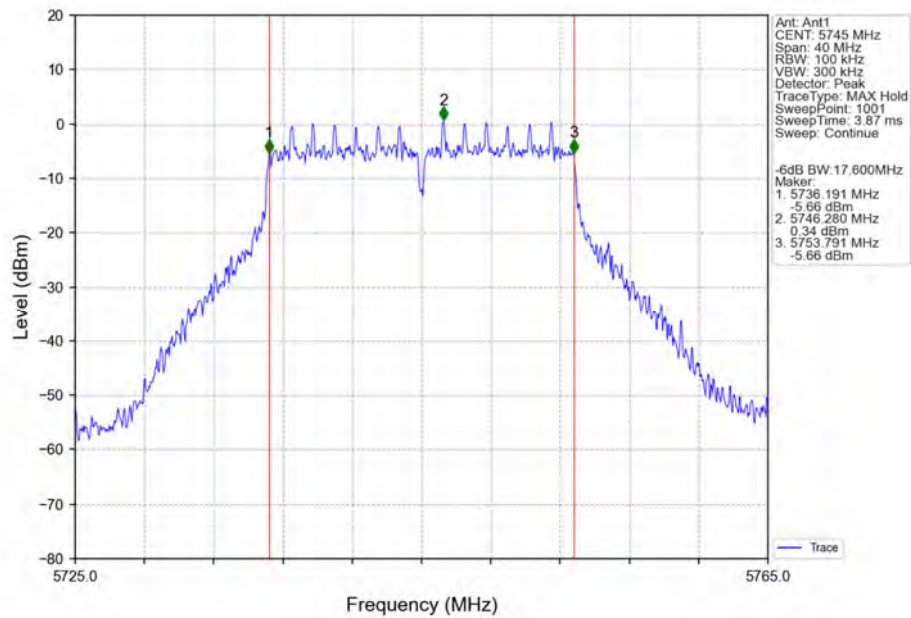
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



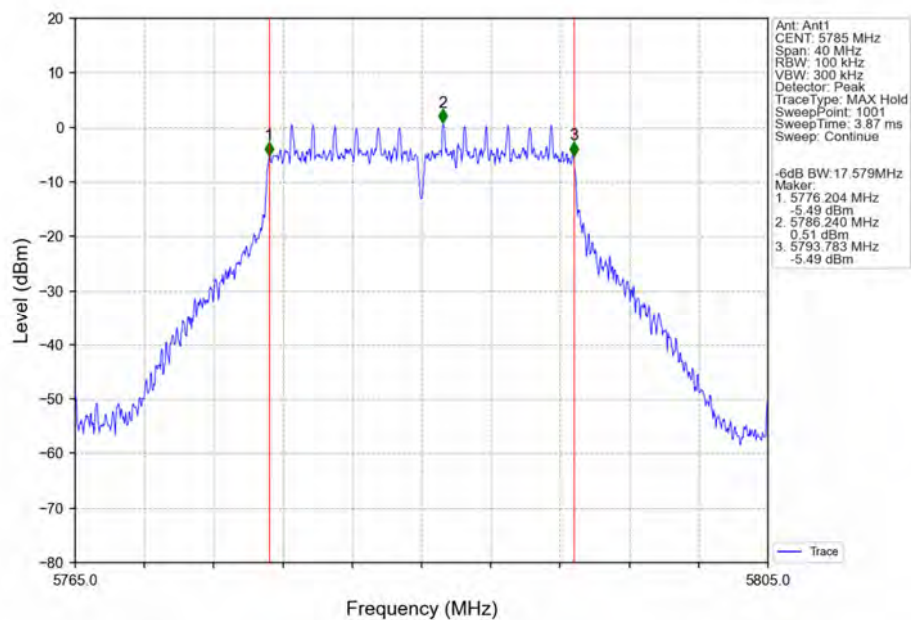
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



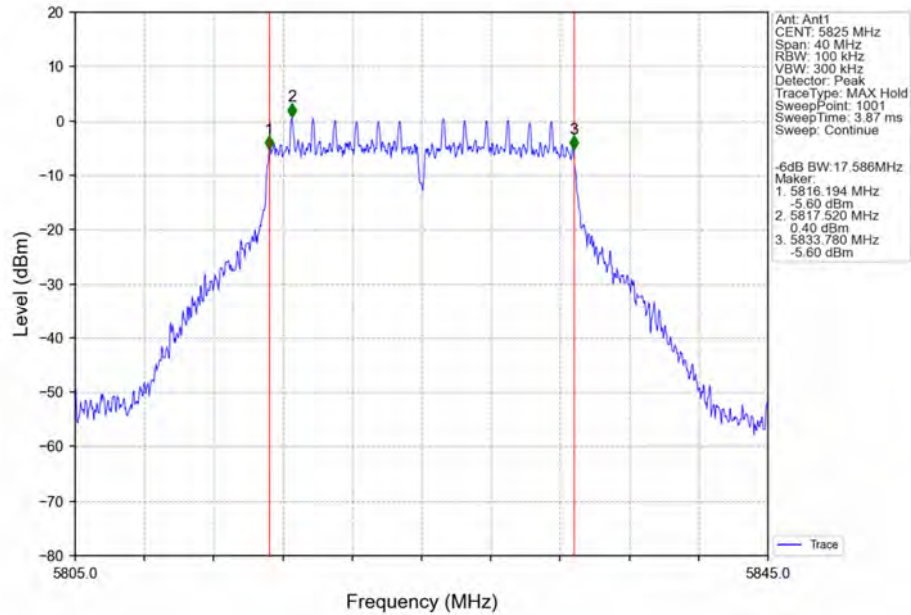
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



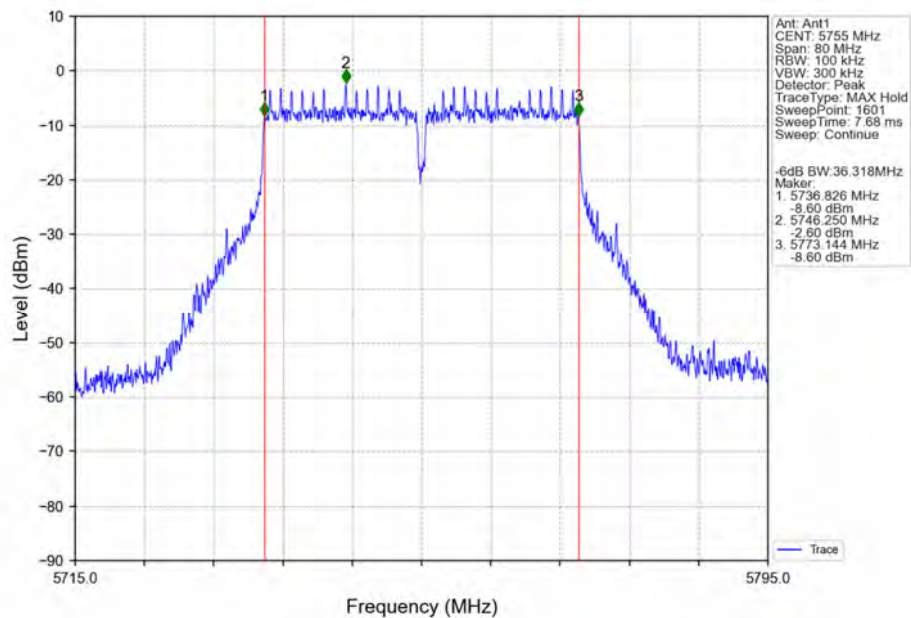
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



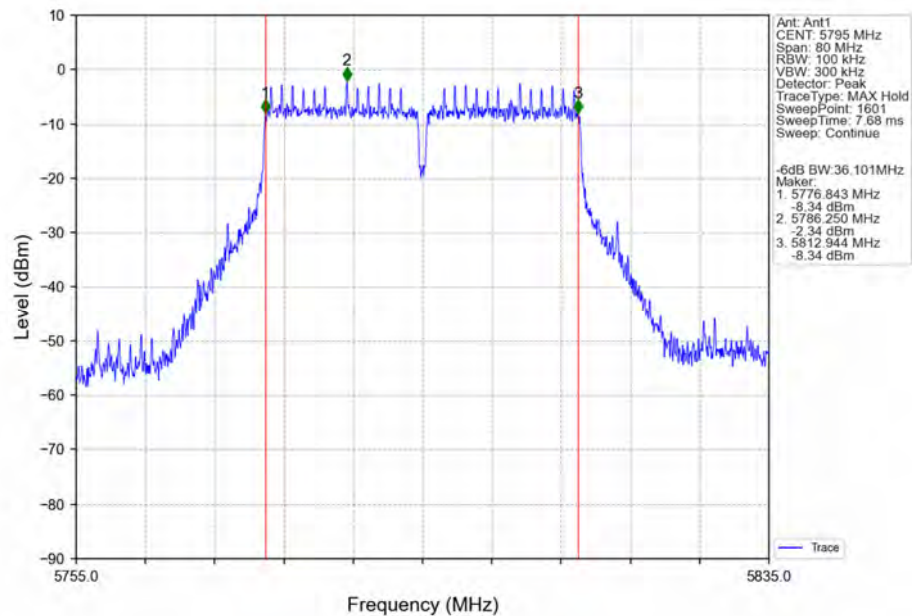
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



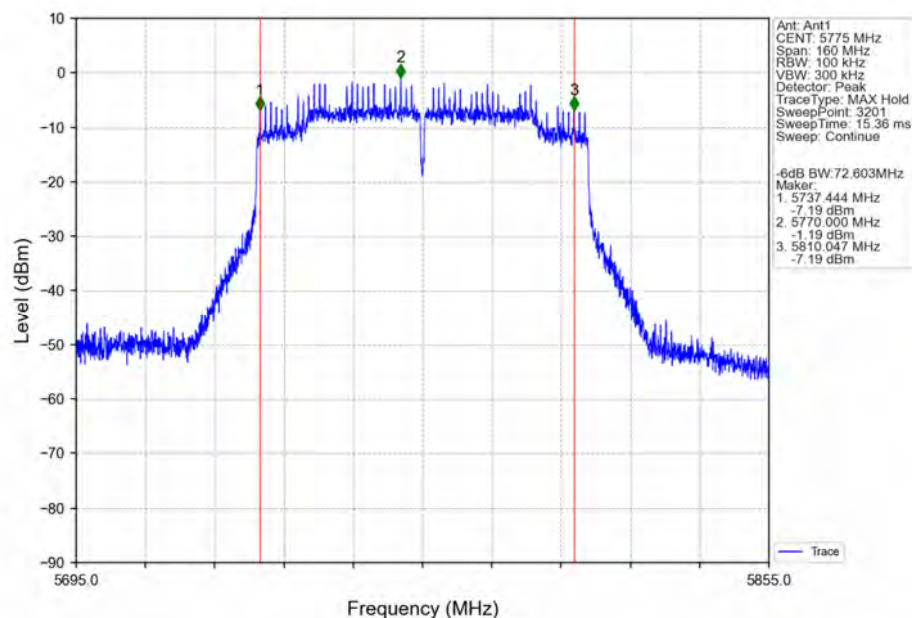
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



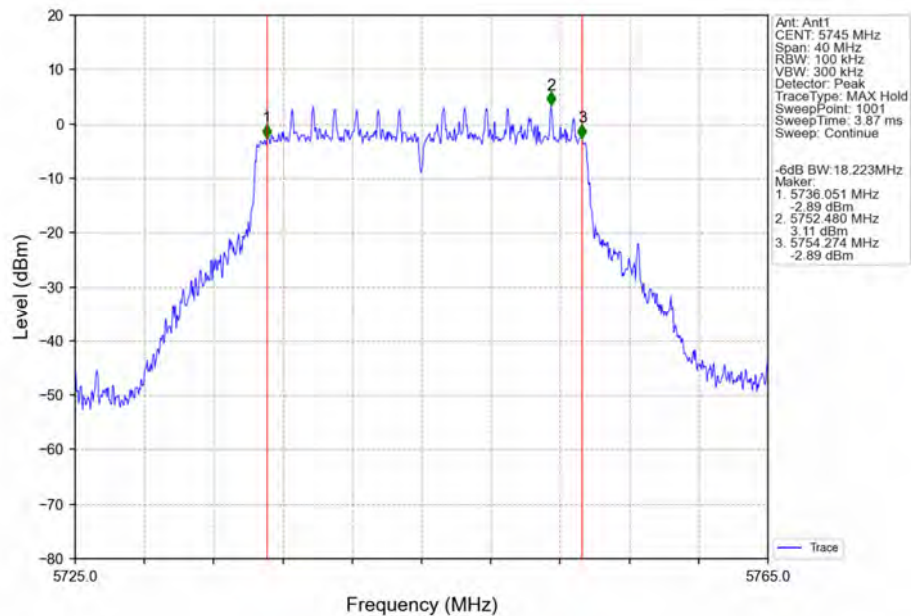
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



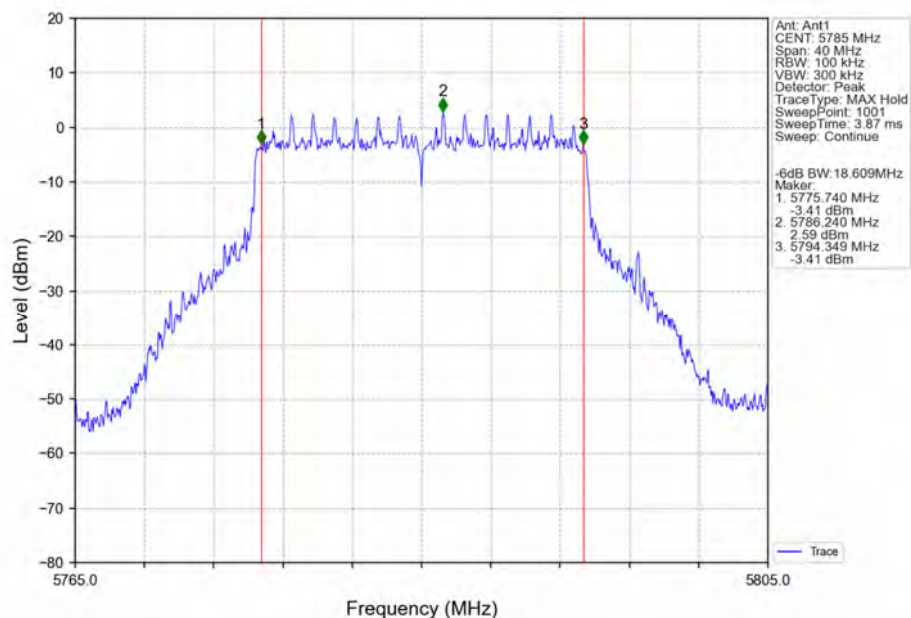
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



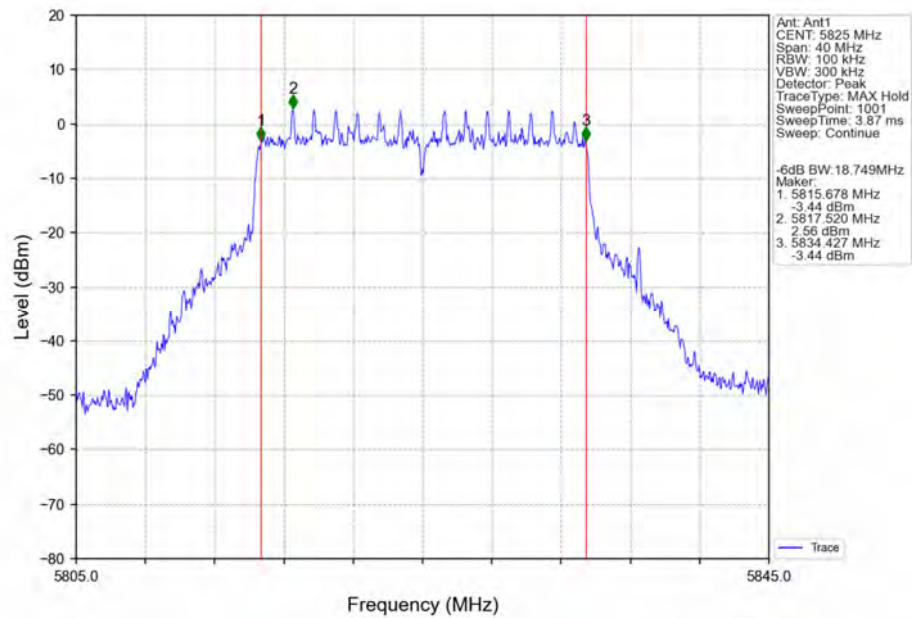
802.11ax(HEW20) LCH_5745MHz_SU_ / Ant1_NTNV



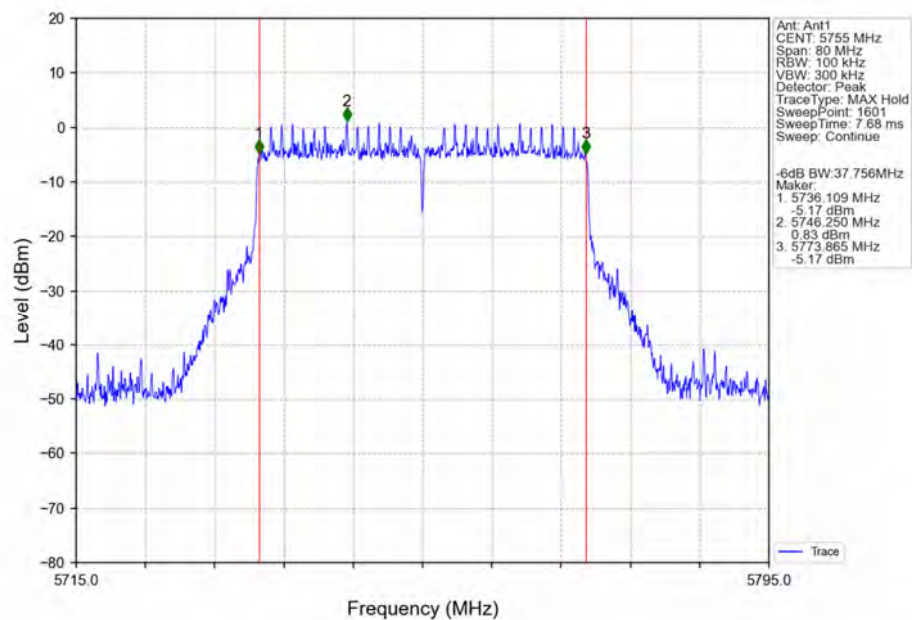
802.11ax(HEW20) MCH_5785MHz_SU_ / Ant1_NTNV



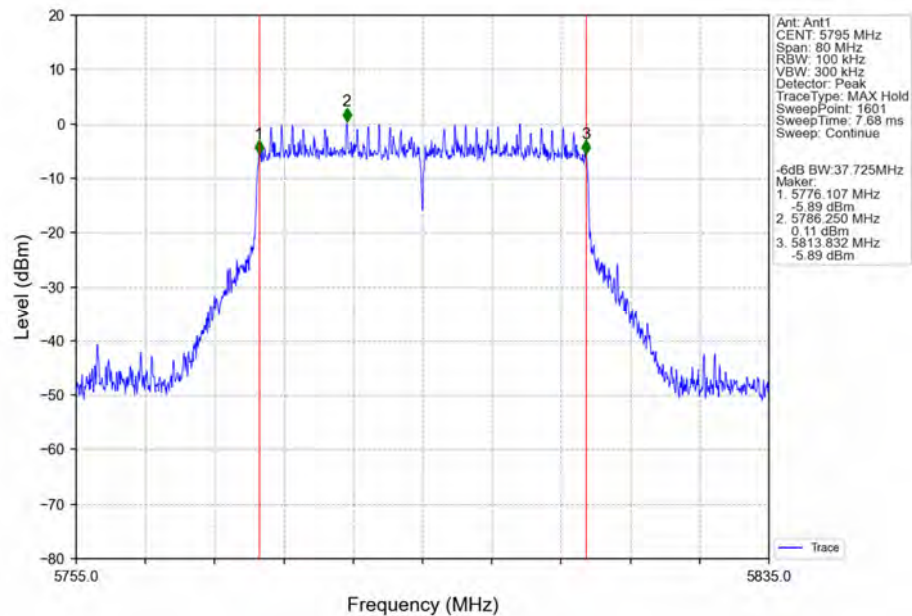
802.11ax(HEW20) HCH_5825MHz_SU_ / Ant1 NTVN



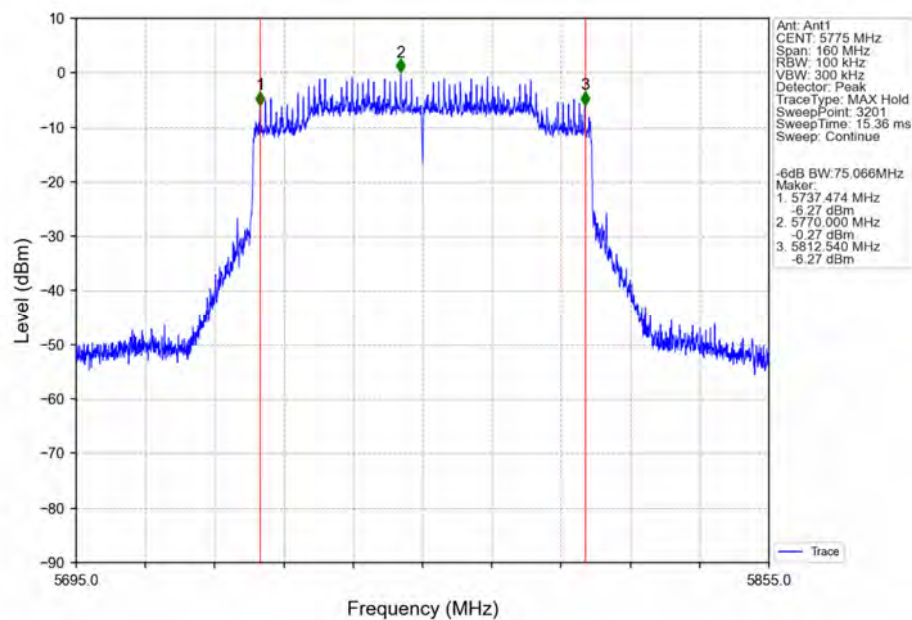
802.11ax(HEW40) LCH_5755MHz_SU_ / Ant1 NTVN



802.11ax(HEW40) HCH_5795MHz_SU_ / Ant1 NTVN



802.11ax(HEW80) MCH_5775MHz_SU_ / Ant1 NTVN



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	/	/	13.05	11.20	/	<=23.98	Pass
		5200	/	/	12.95	11.23	/	<=23.98	Pass
		5240	/	/	13.10	11.25	/	<=23.98	Pass
		5745	/	/	10.92	9.84	/	<=30	Pass
		5785	/	/	11.16	12.54	/	<=30	Pass
		5825	/	/	10.97	12.92	/	<=30	Pass
802.11n (HT20)	SISO	5180	/	/	12.88	11.68	15.33	<=23.98	Pass
		5200	/	/	12.88	12.05	15.50	<=23.98	Pass
		5240	/	/	12.94	11.90	15.46	<=23.98	Pass
		5745	/	/	10.85	12.41	14.71	<=30	Pass
		5785	/	/	11.04	12.95	15.11	<=30	Pass
		5825	/	/	10.89	13.37	15.31	<=30	Pass
802.11n (HT40)	SISO	5190	/	/	13.05	12.15	15.63	<=23.98	Pass
		5230	/	/	13.19	12.26	15.76	<=23.98	Pass
		5755	/	/	11.36	12.92	15.22	<=30	Pass
		5795	/	/	11.01	13.19	15.25	<=30	Pass
802.11ac (VHT20)	SISO	5180	/	/	12.83	12.34	15.60	<=23.98	Pass
		5200	/	/	12.88	12.38	15.65	<=23.98	Pass
		5240	/	/	12.90	12.12	15.54	<=23.98	Pass
		5745	/	/	11.39	13.68	15.69	<=30	Pass
		5785	/	/	11.07	13.73	15.61	<=30	Pass
		5825	/	/	10.92	14.09	15.80	<=30	Pass
802.11ac (VHT40)	SISO	5190	/	/	13.05	12.27	15.69	<=23.98	Pass
		5230	/	/	13.17	12.26	15.75	<=23.98	Pass
		5755	/	/	10.84	13.55	15.41	<=30	Pass
		5795	/	/	10.98	13.75	15.59	<=30	Pass
802.11ac (VHT80)	SISO	5210	/	/	12.68	12.39	15.55	<=23.98	Pass
		5775	/	/	13.29	11.34	15.43	<=30	Pass
802.11ax (HEW20)	SISO	5180	SU	/	10.41	11.81	14.18	<=23.98	Pass
		5200	SU	/	10.18	12.22	14.33	<=23.98	Pass
		5240	SU	/	10.21	12.33	14.41	<=23.98	Pass
		5745	SU	/	14.08	9.78	15.45	<=30	Pass
		5785	SU	/	13.32	11.18	15.39	<=30	Pass
		5825	SU	/	13.44	11.06	15.42	<=30	Pass
802.11ax (HEW40)	SISO	5190	SU	/	13.17	12.36	15.79	<=23.98	Pass
		5230	SU	/	13.08	12.45	15.79	<=23.98	Pass
		5755	SU	/	14.54	10.06	15.86	<=30	Pass
		5795	SU	/	13.79	11.15	15.68	<=30	Pass
802.11ax (HEW80)	SISO	5210	SU	/	13.29	12.47	15.91	<=23.98	Pass
		5775	SU	/	14.55	10.95	16.12	<=30	Pass

Note1: Antenna Gain:

ANT 1:

U-NII-1: 5150 MHz to 5250 MHz: 1.74 dBi

U-NII-3: 5725 MHz to 5850 MHz: 1.89 dBi

ANT 2:

U-NII-1: 5150 MHz to 5250 MHz: 1.74 dBi

U-NII-3: 5725 MHz to 5850 MHz: 1.89 dBi

Note2: Directional Gain:

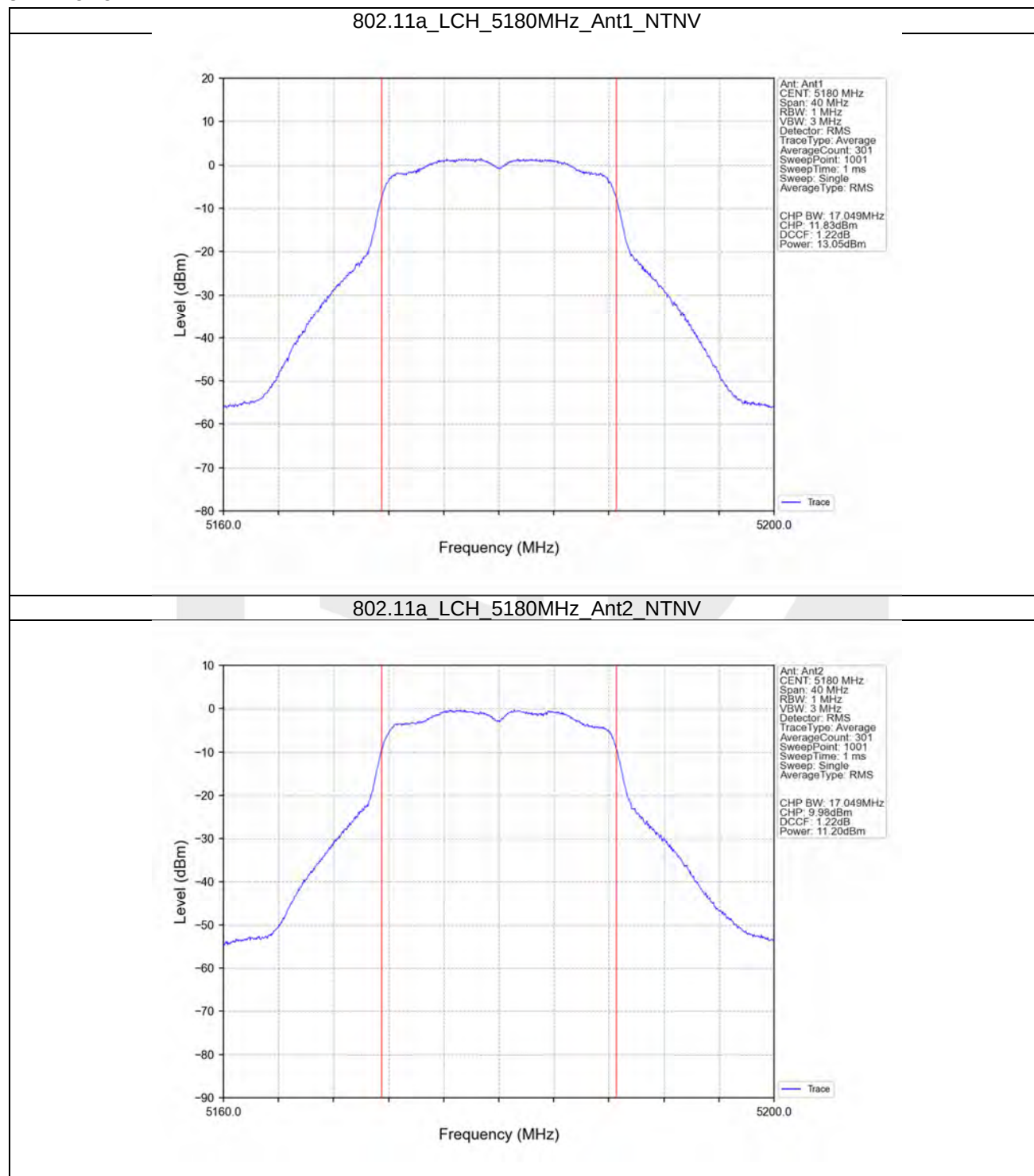
U-NII-1: 5150 MHz to 5250 MHz: Correlated (Directional Gain =4.75 dBi)

U-NII-3: 5725 MHz to 5850 MHz: Correlated (Directional Gain =4.90 dBi)

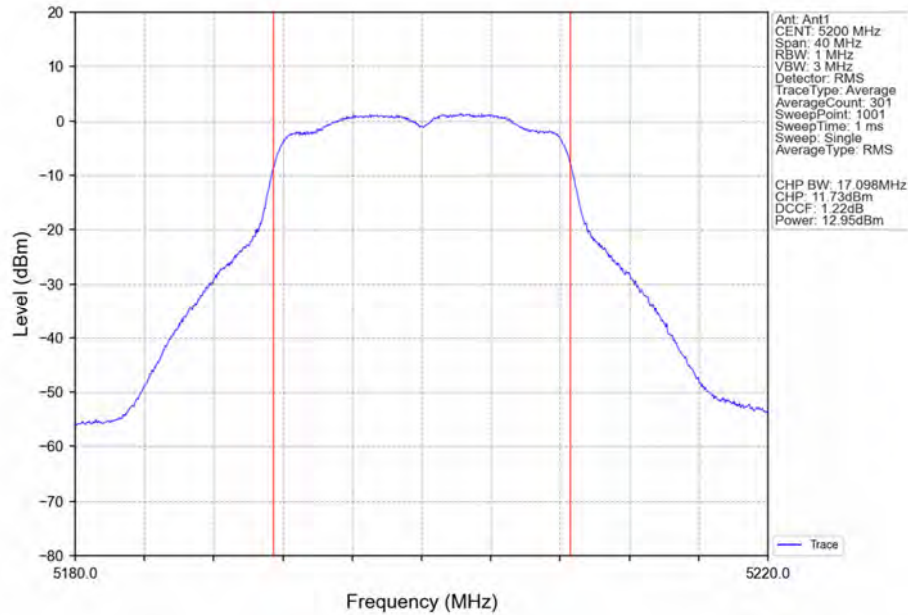
Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi

3.2 Test Graph

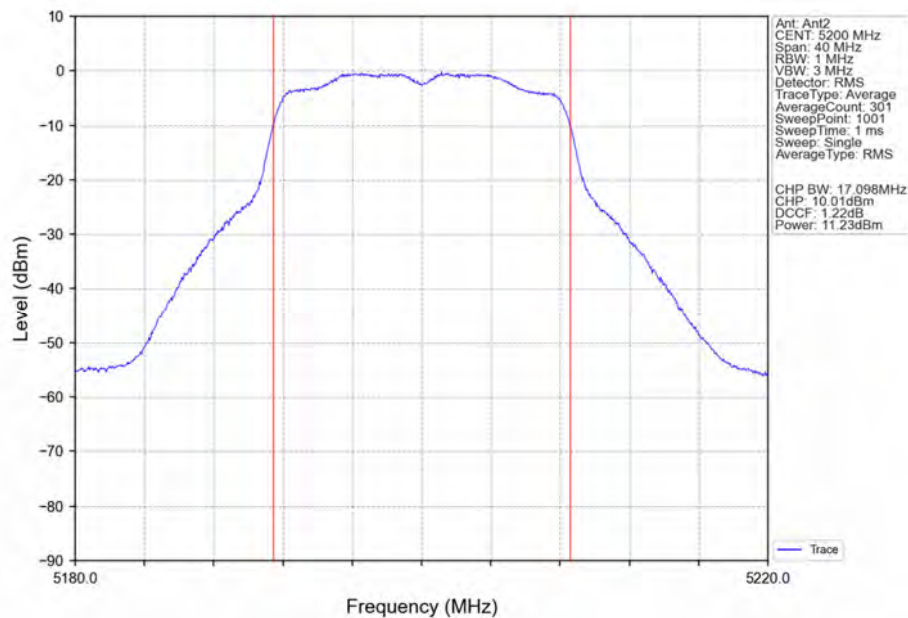
3.2.1 Power



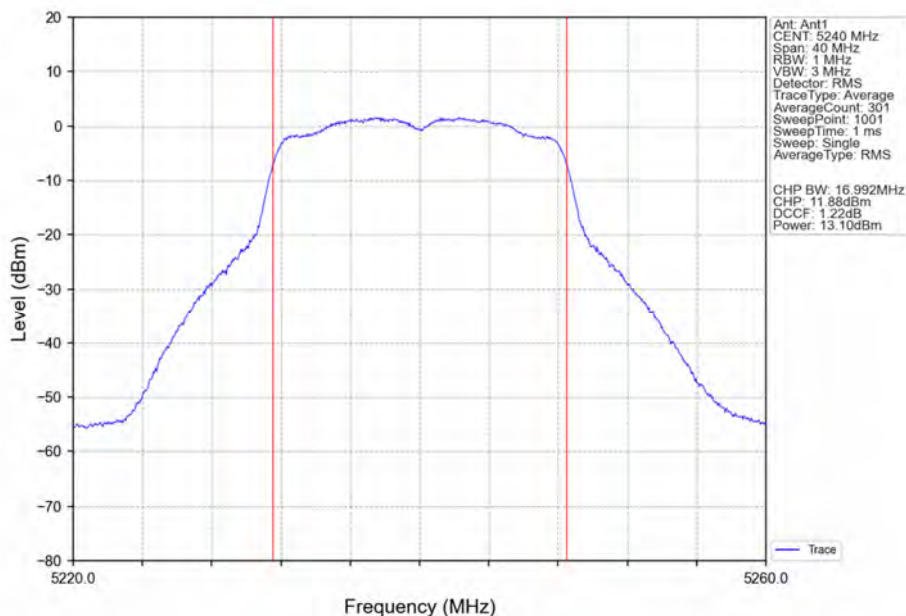
802.11a_MCH_5200MHz_Ant1_NTNV



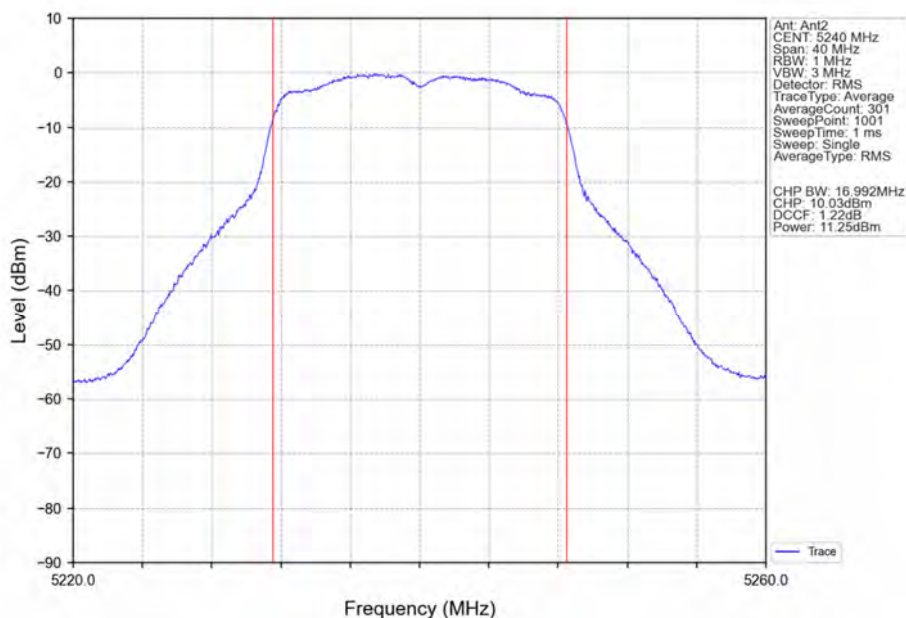
802.11a_MCH_5200MHz_Ant2_NTNV



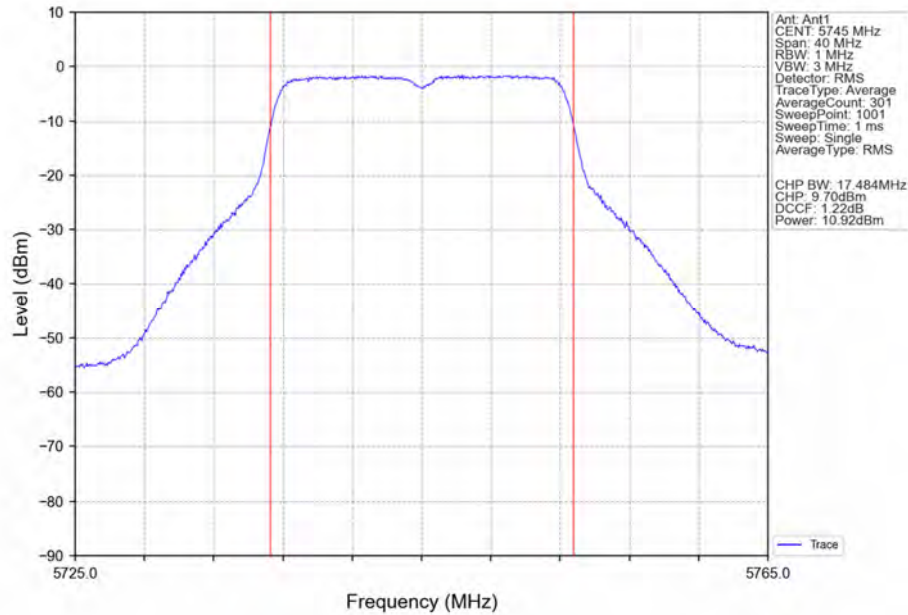
802.11a_HCH_5240MHz_Ant1_NTNV



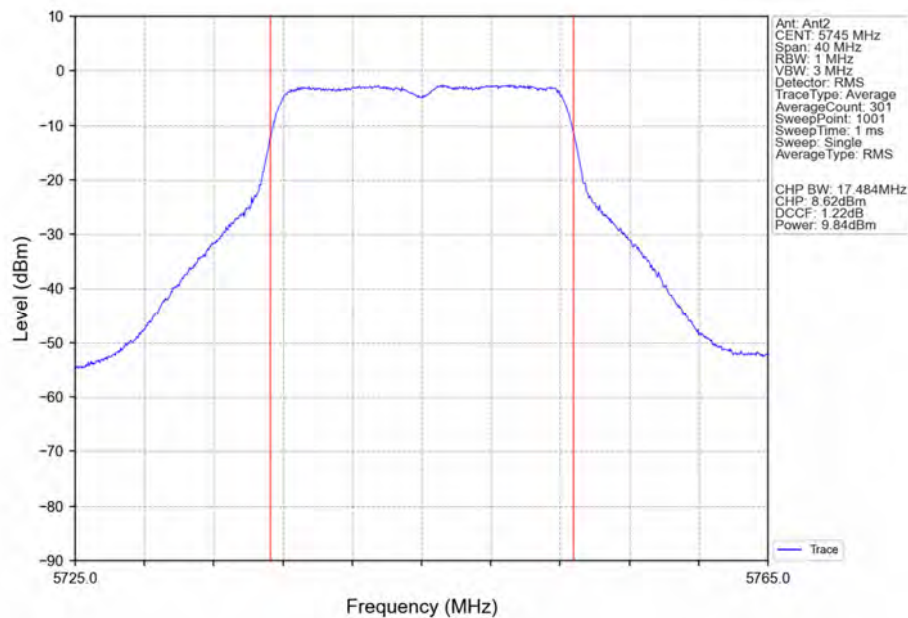
802.11a_HCH_5240MHz_Ant2_NTNV



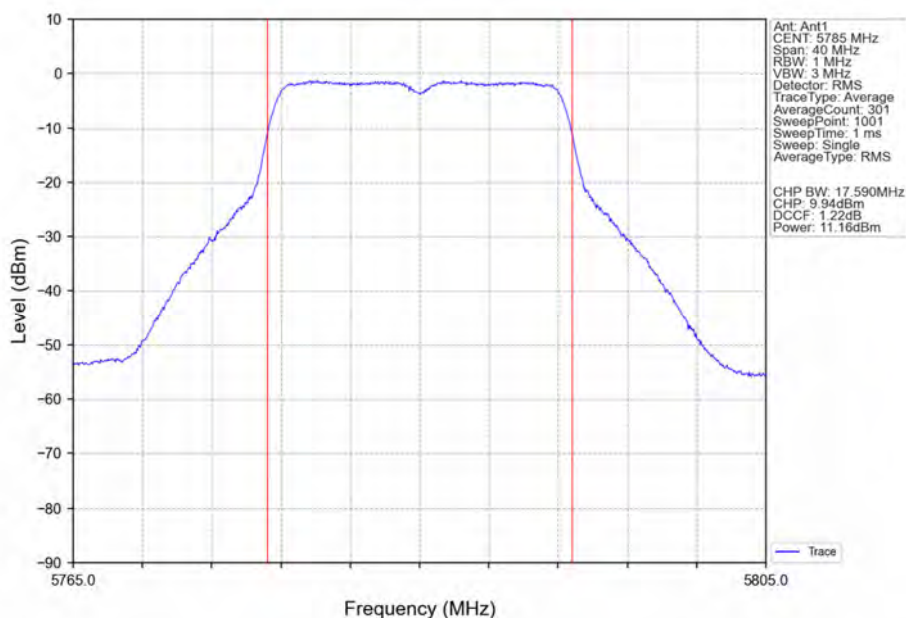
802.11a LCH_5745MHz_Ant1_NTNV



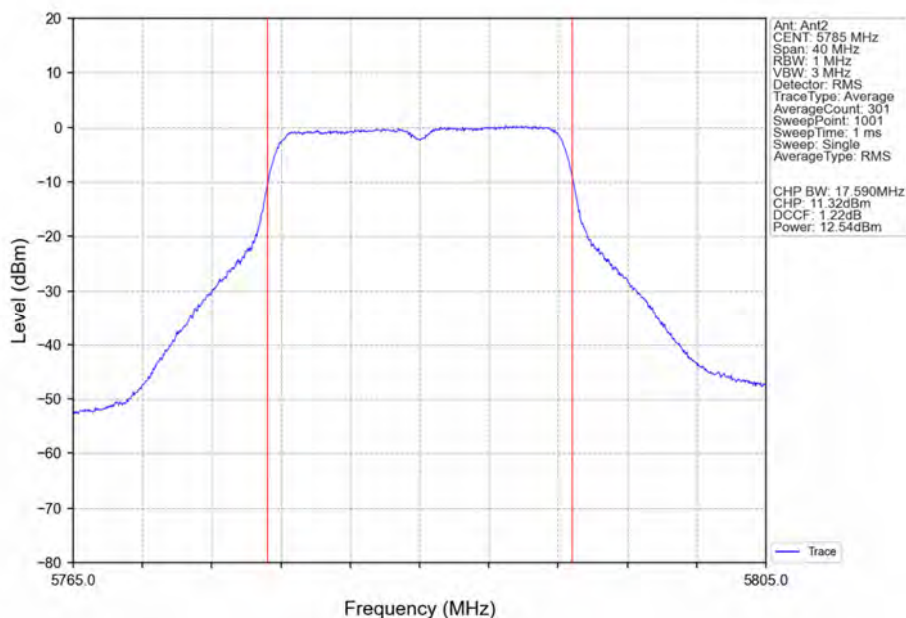
802.11a LCH_5745MHz_Ant2_NTNV



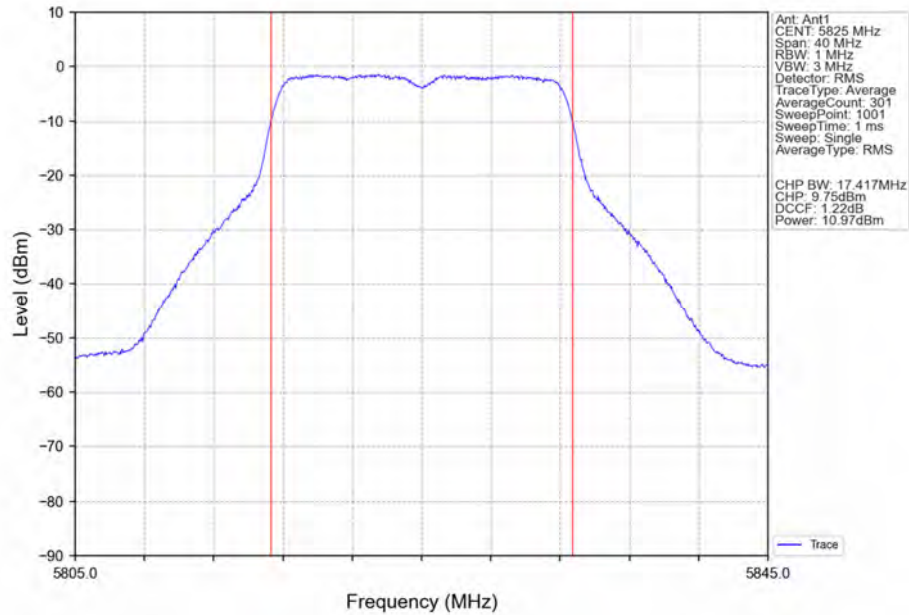
802.11a MCH_5785MHz_Ant1_NTNV



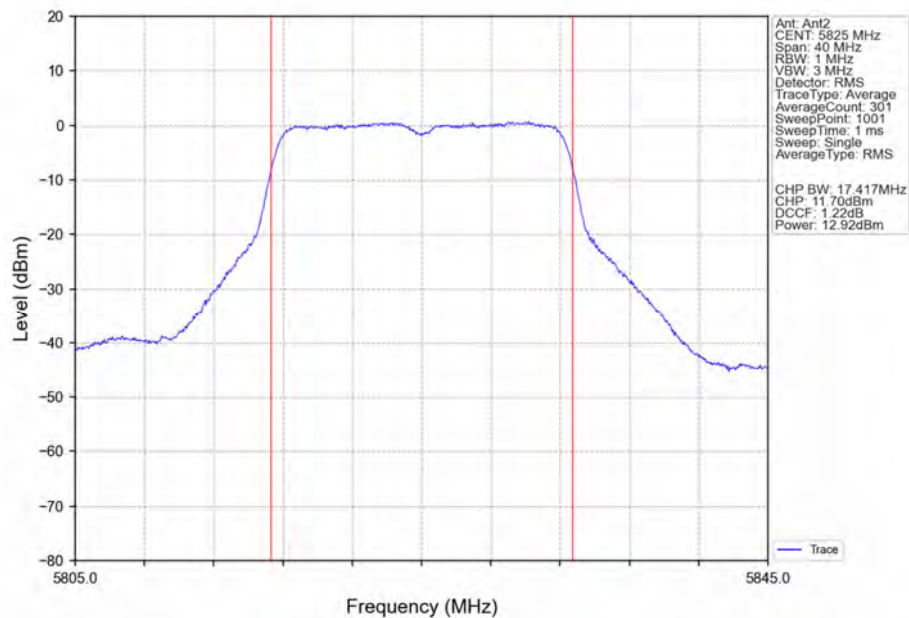
802.11a MCH_5785MHz_Ant2_NTNV



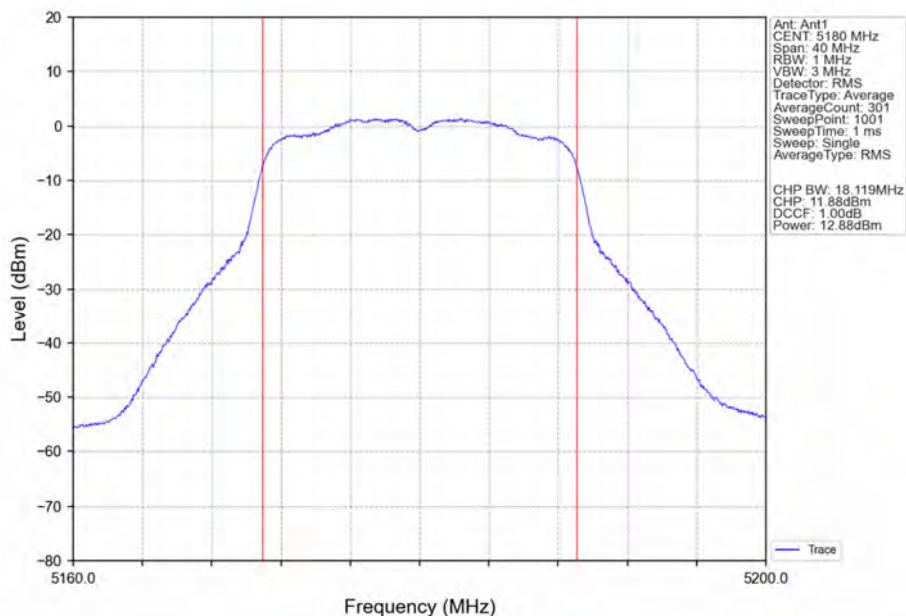
802.11a HCH_5825MHz_Ant1_NTNV



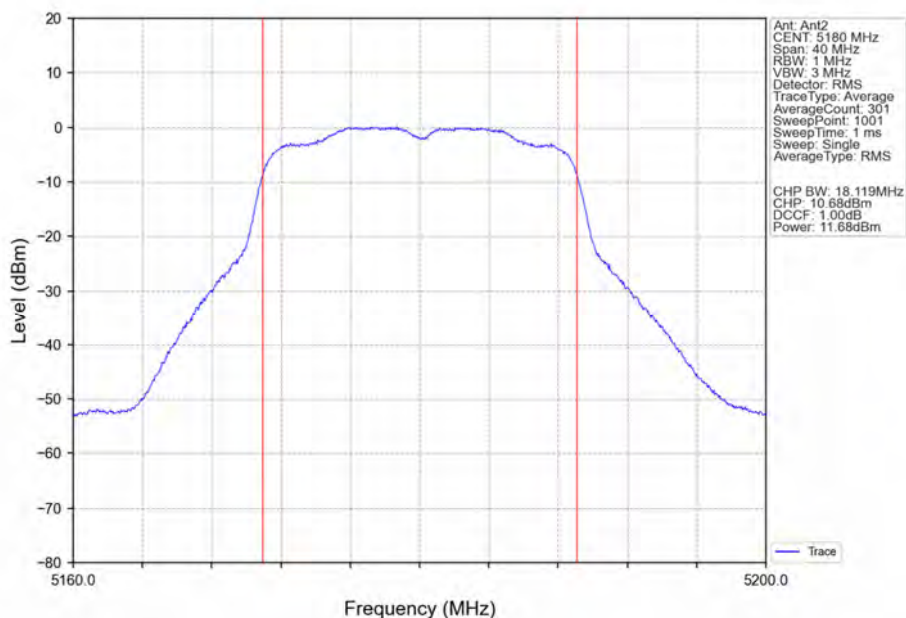
802.11a HCH_5825MHz_Ant2_NTNV



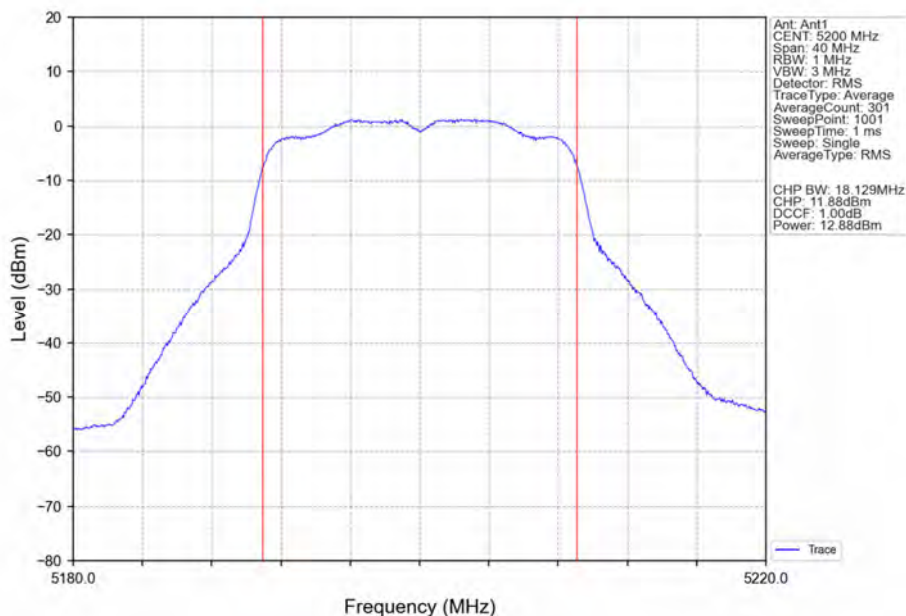
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



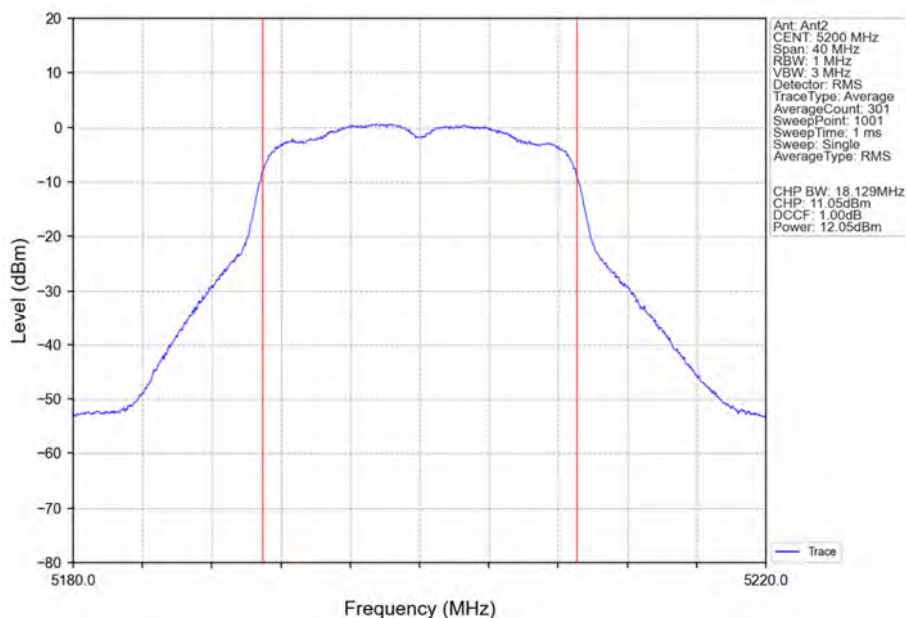
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



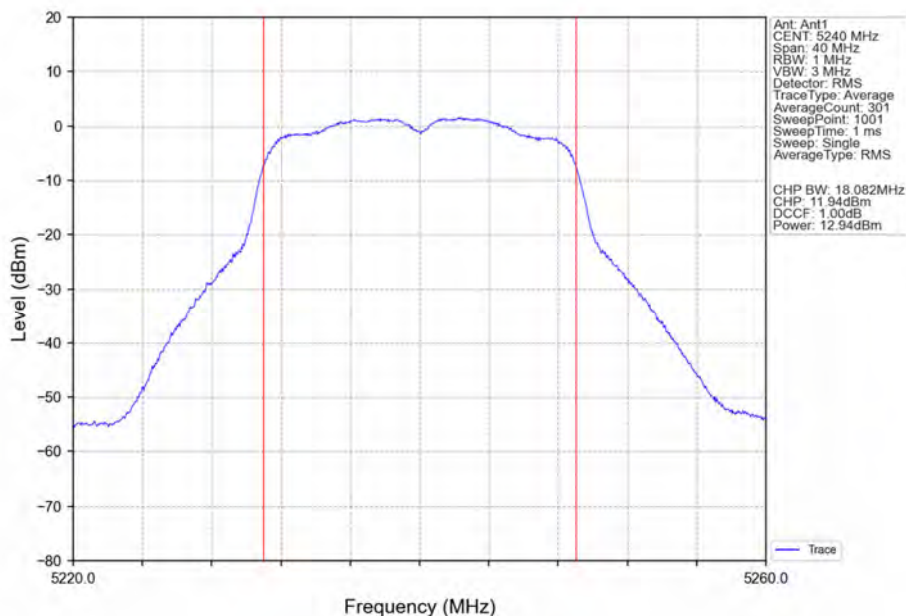
802.11n(HT20)_MCH 5200MHz_Ant1_NTNV



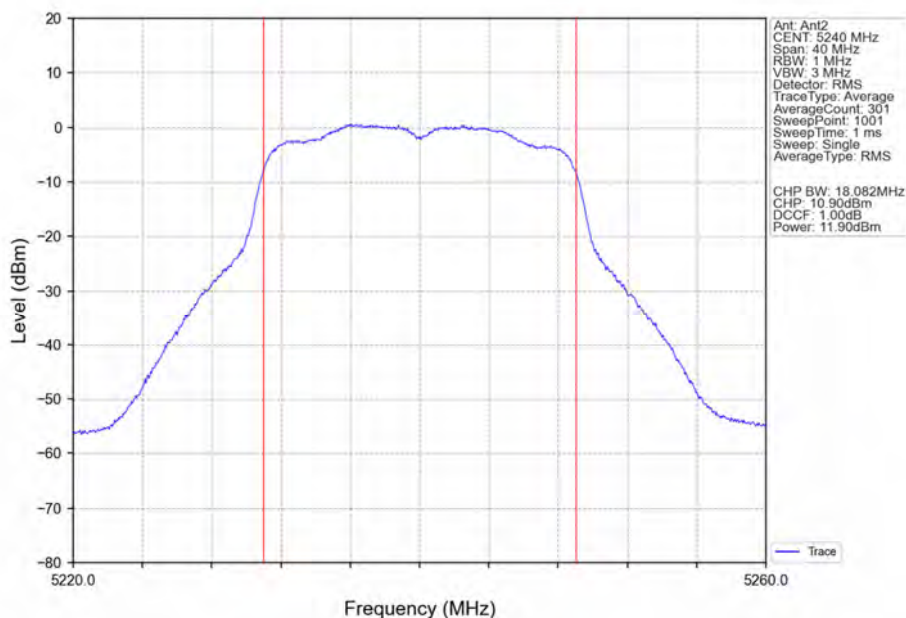
802.11n(HT20)_MCH 5200MHz_Ant2_NTNV



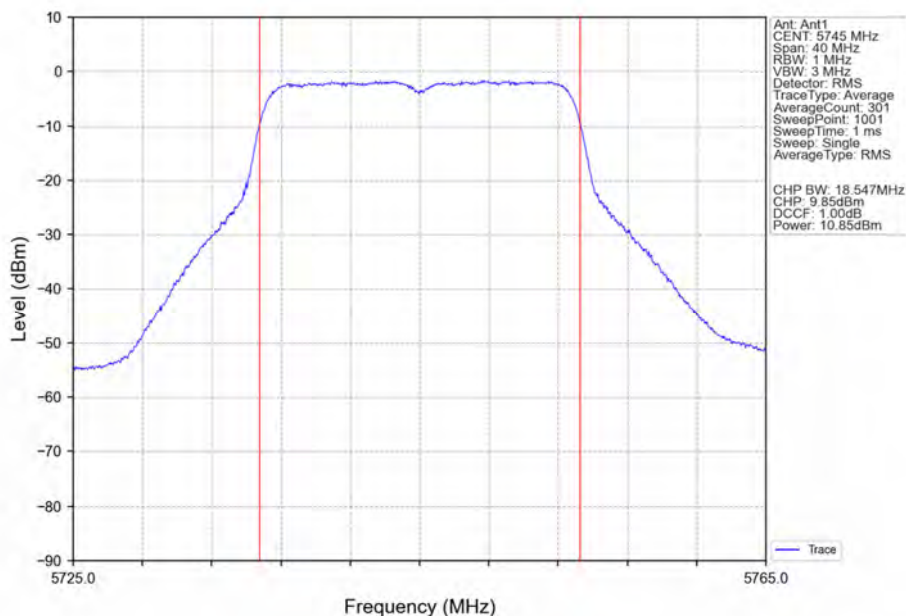
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



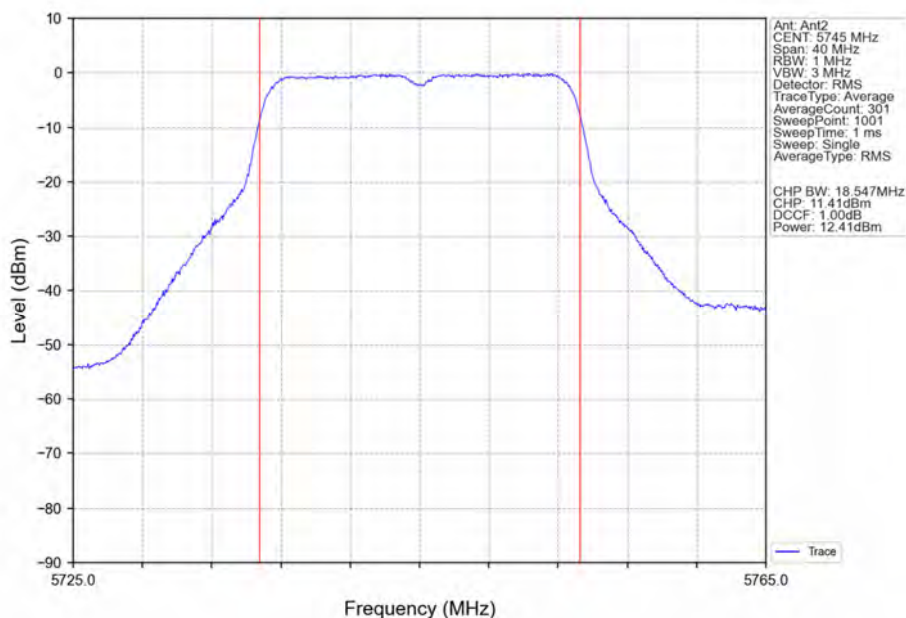
802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



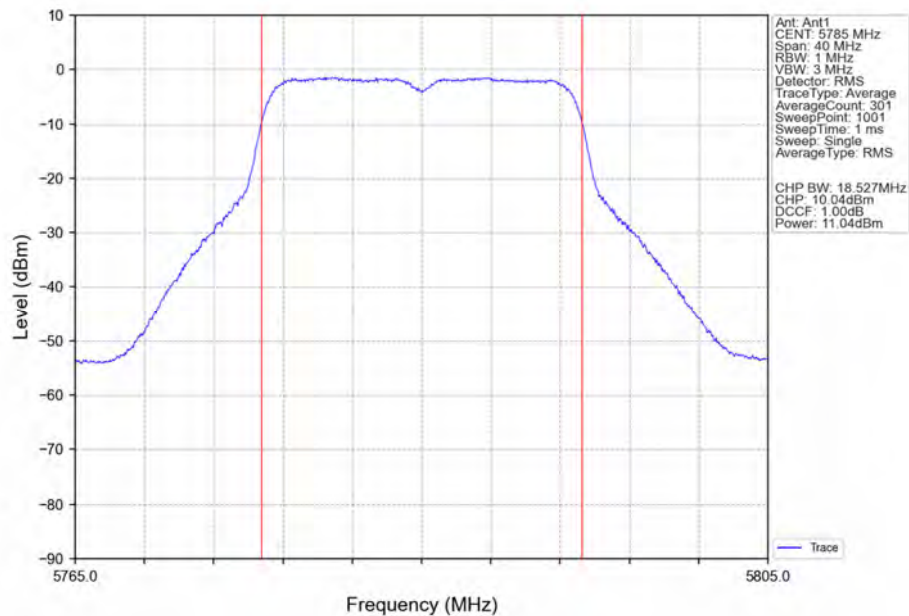
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



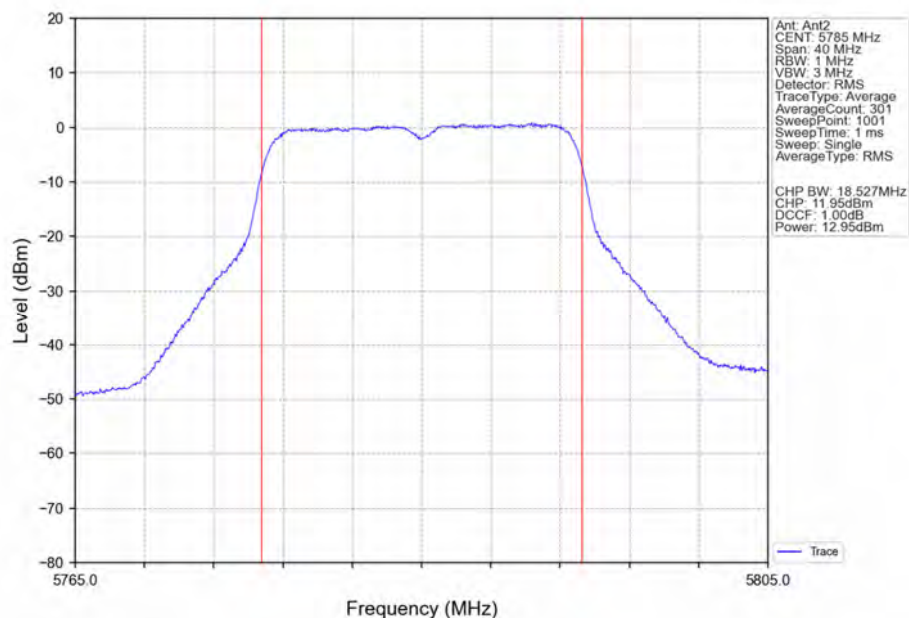
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



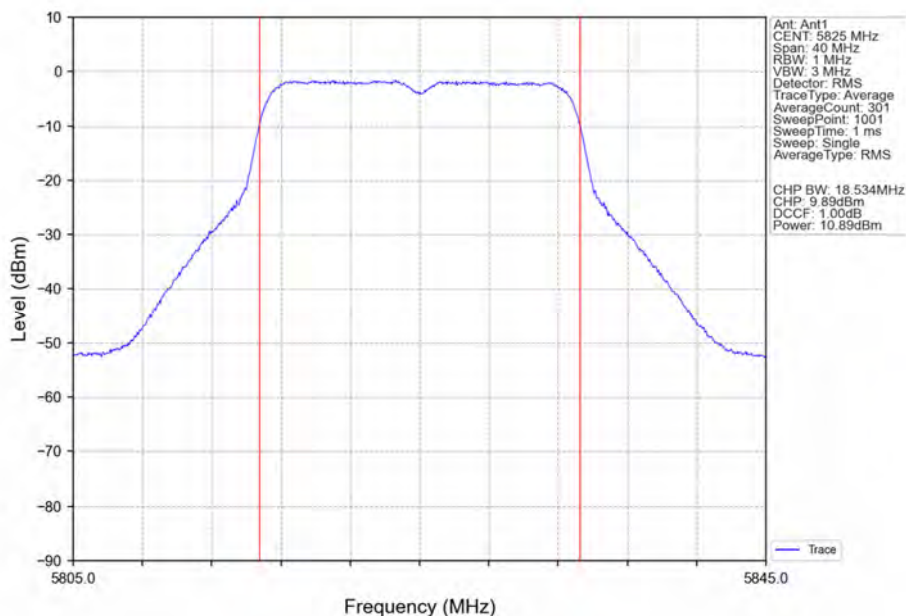
802.11n(HT20)_MCH 5785MHz_Ant1_NTNV



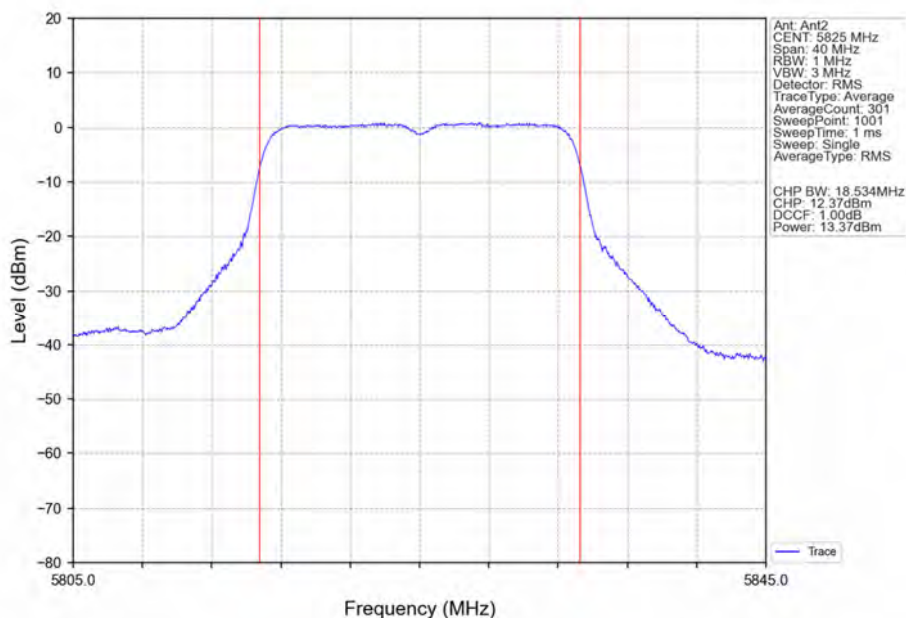
802.11n(HT20)_MCH 5785MHz_Ant2_NTNV



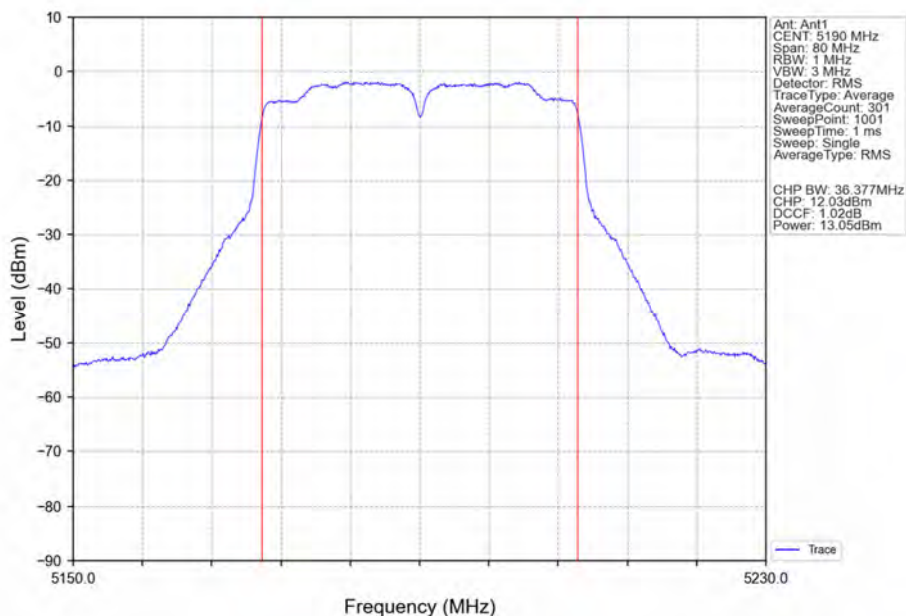
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



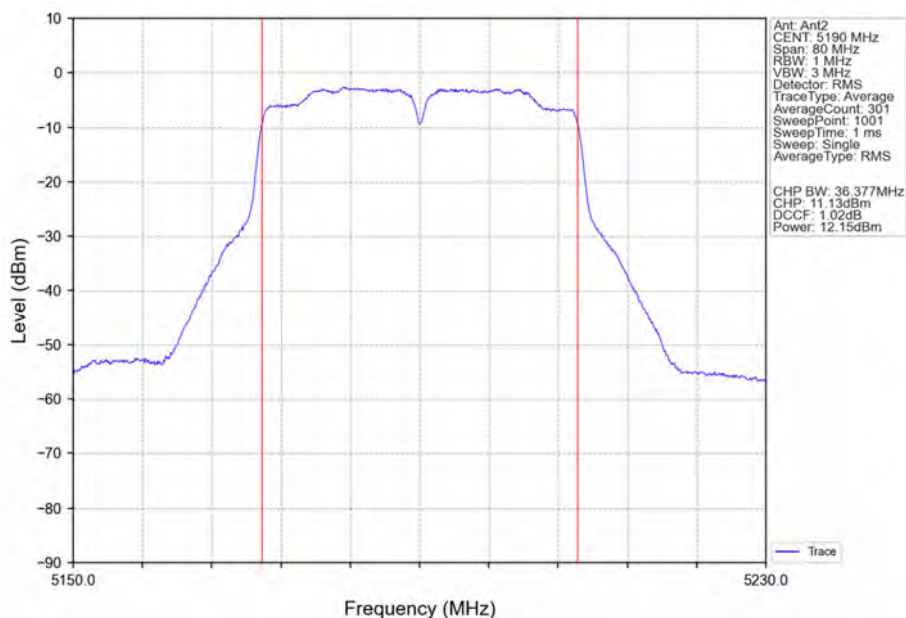
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



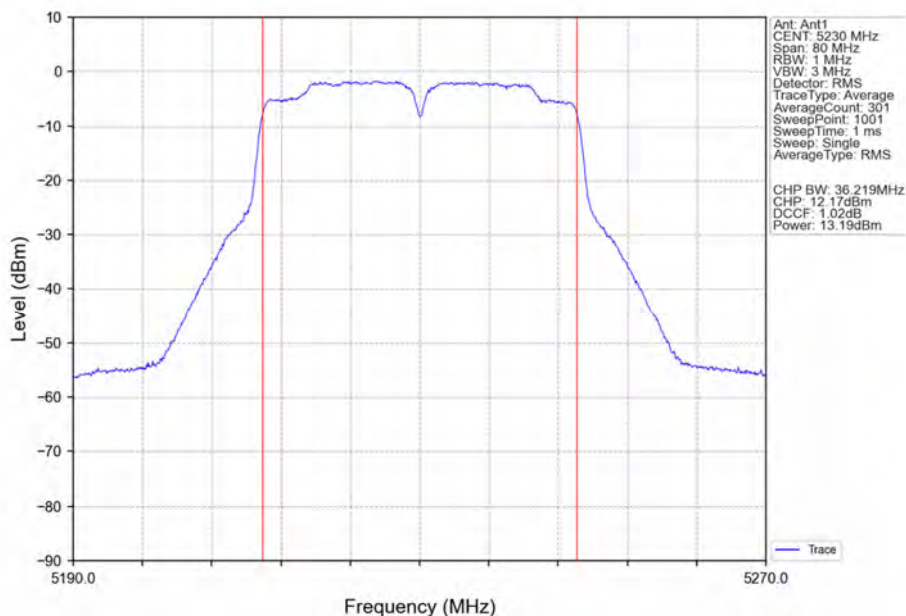
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



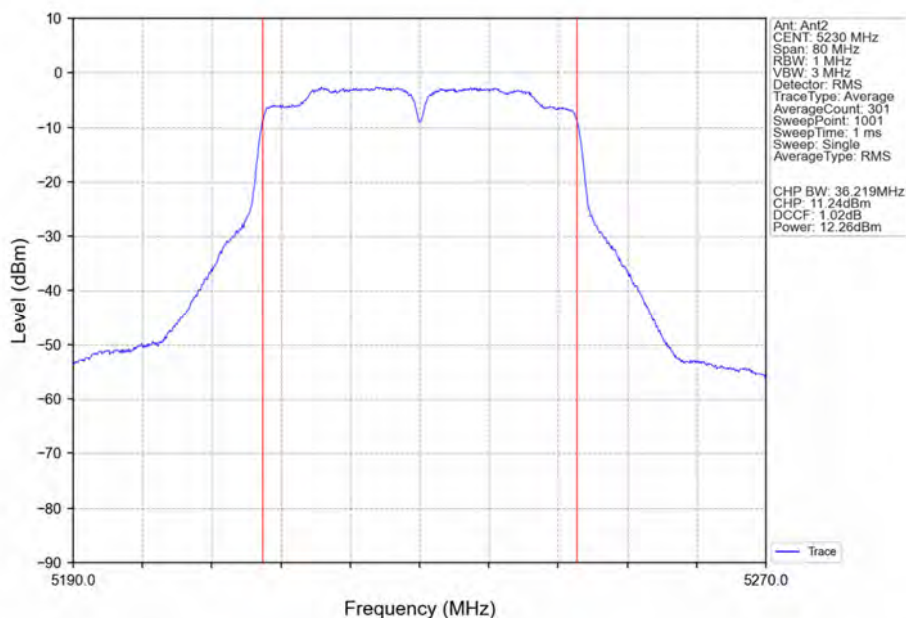
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



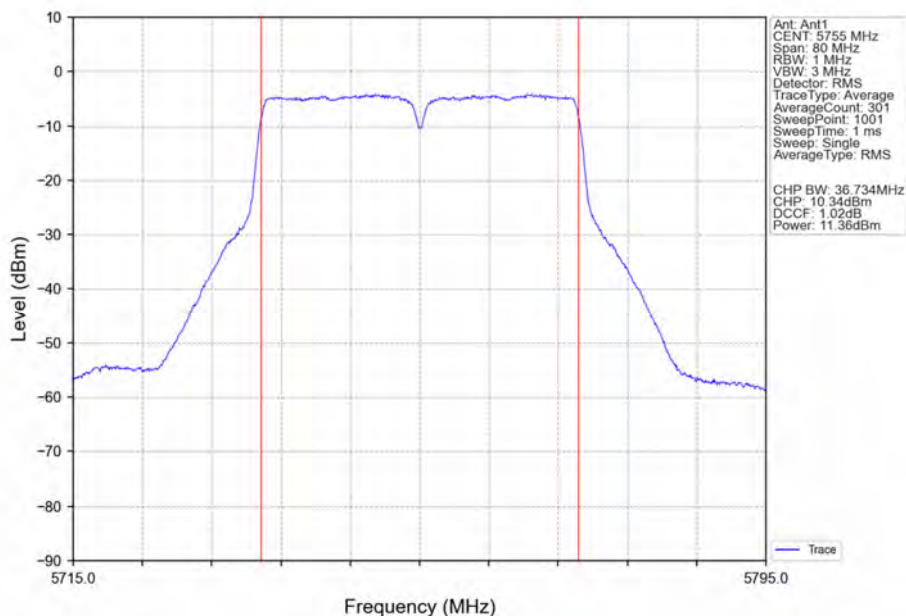
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



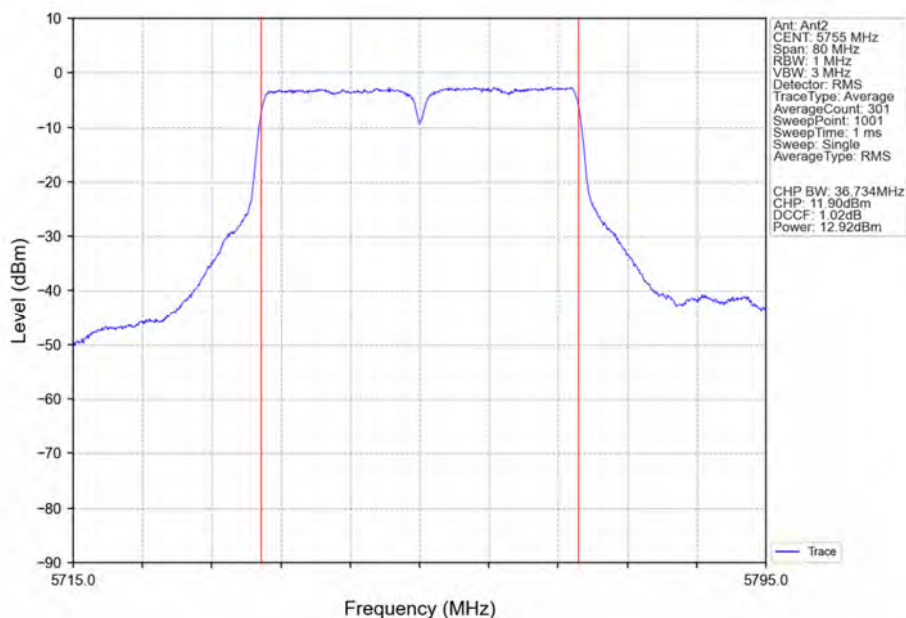
802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



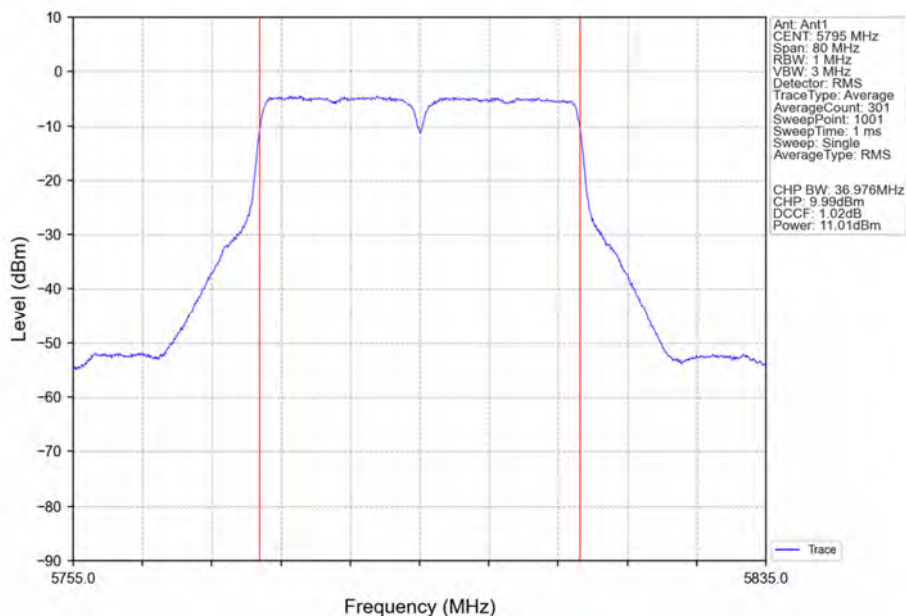
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



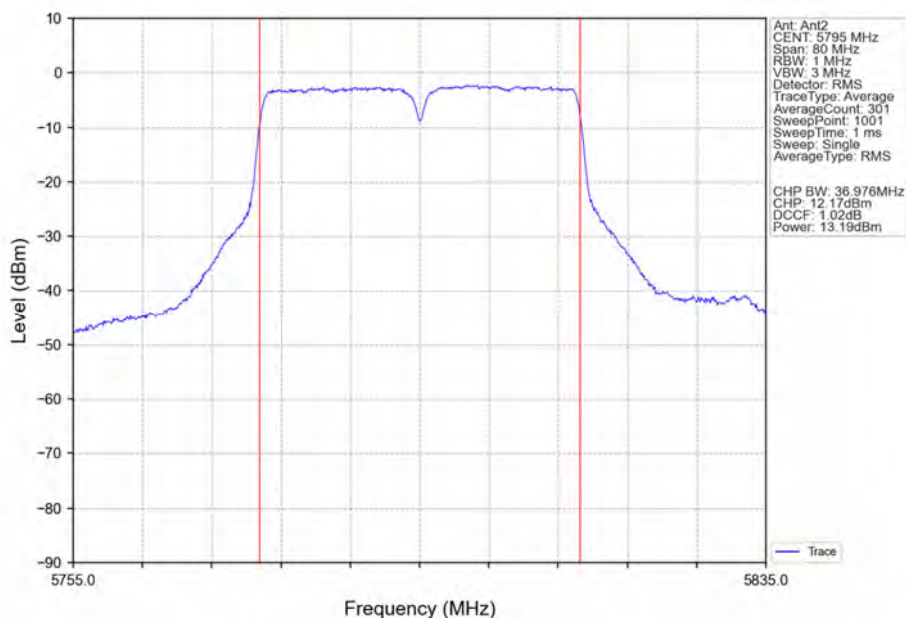
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



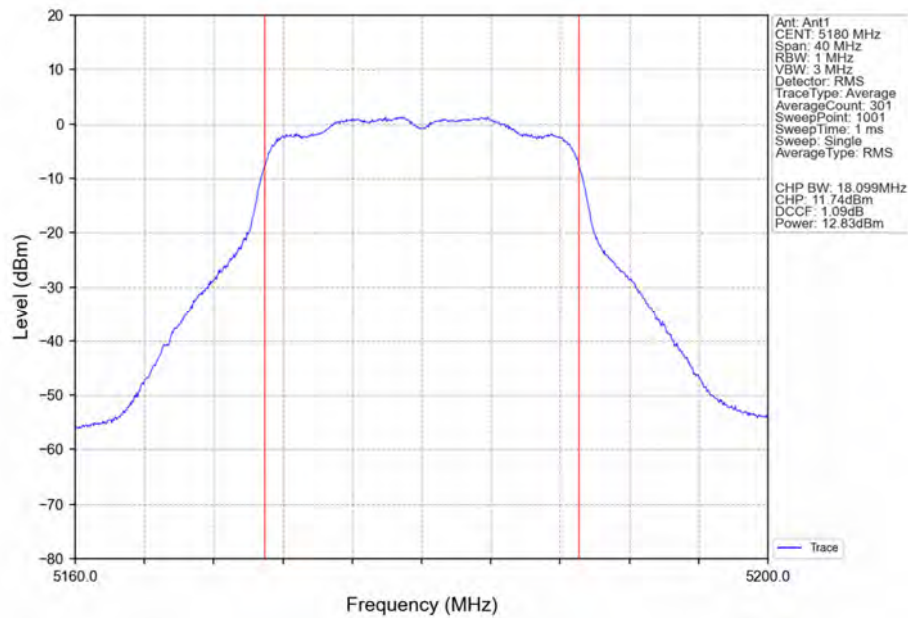
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



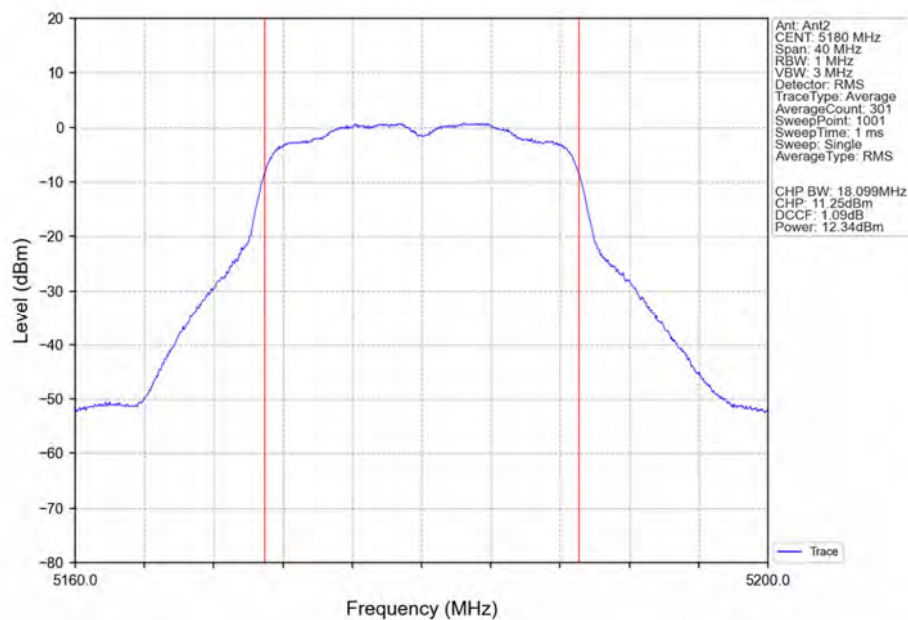
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



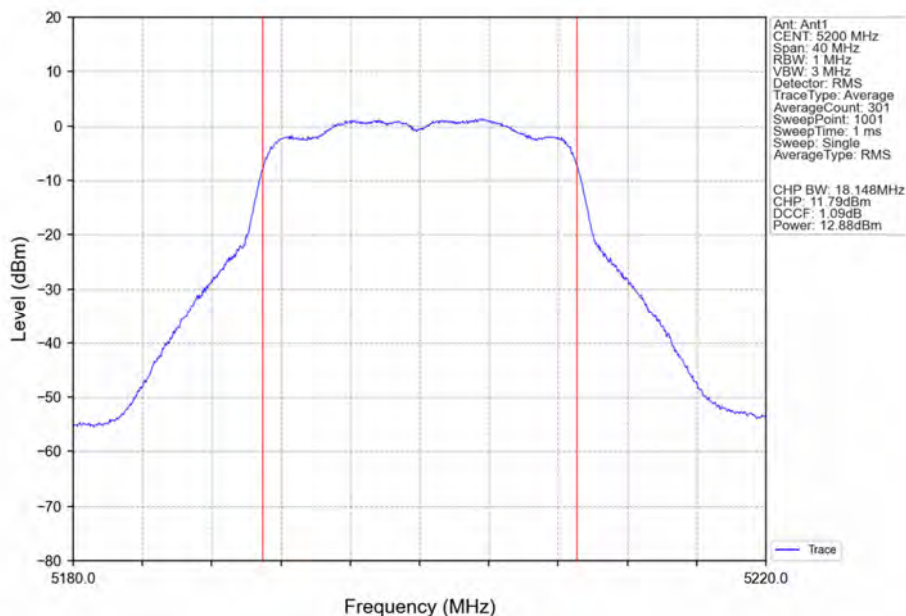
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



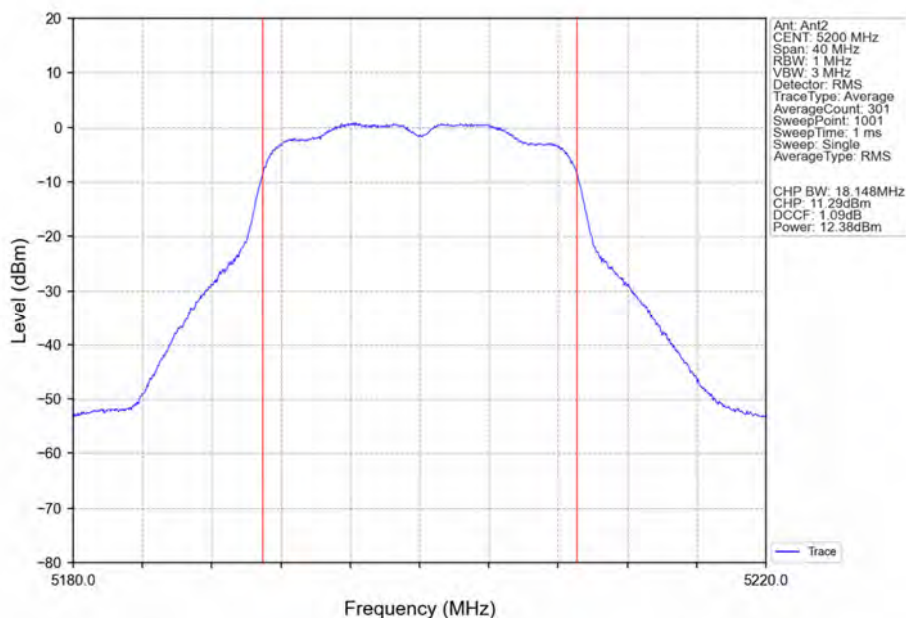
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



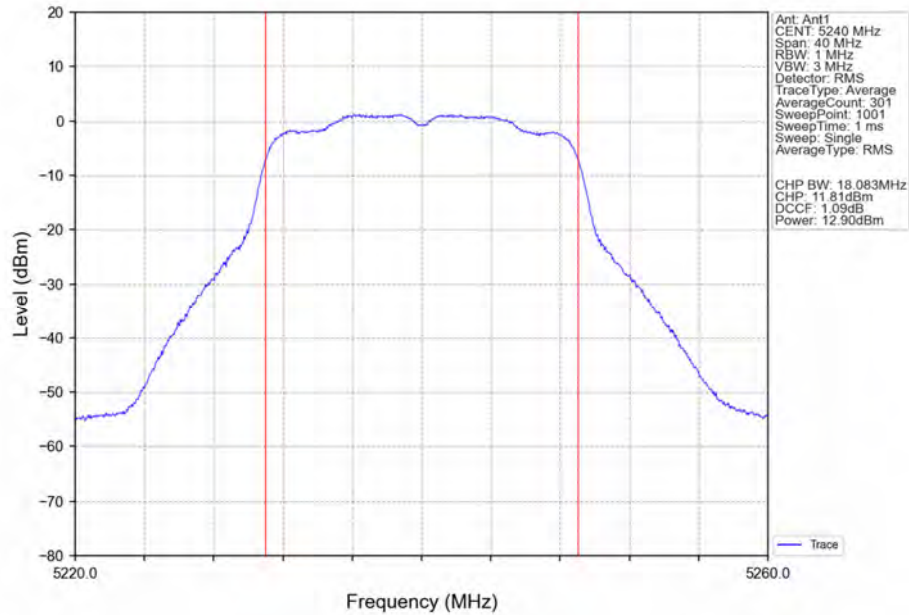
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



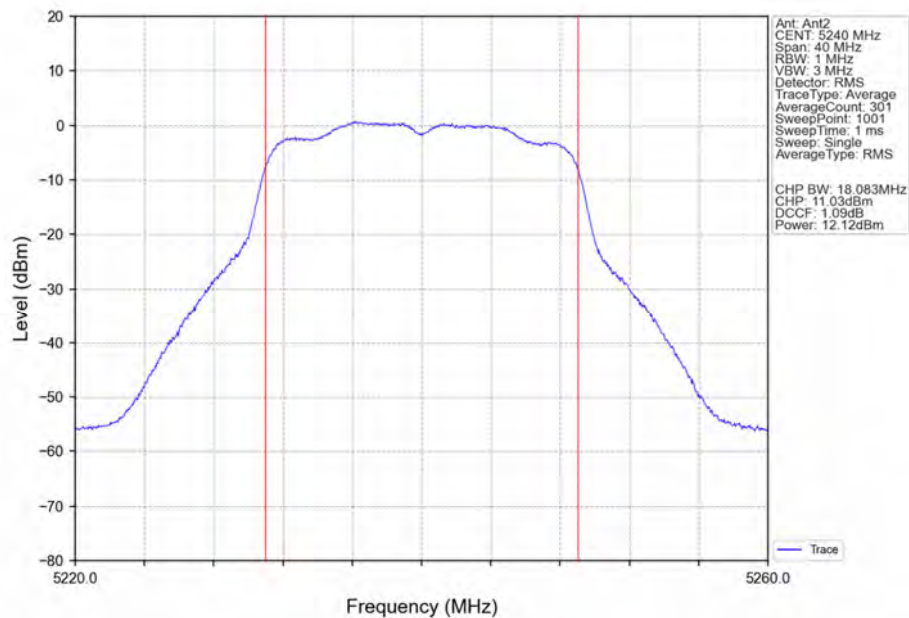
802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



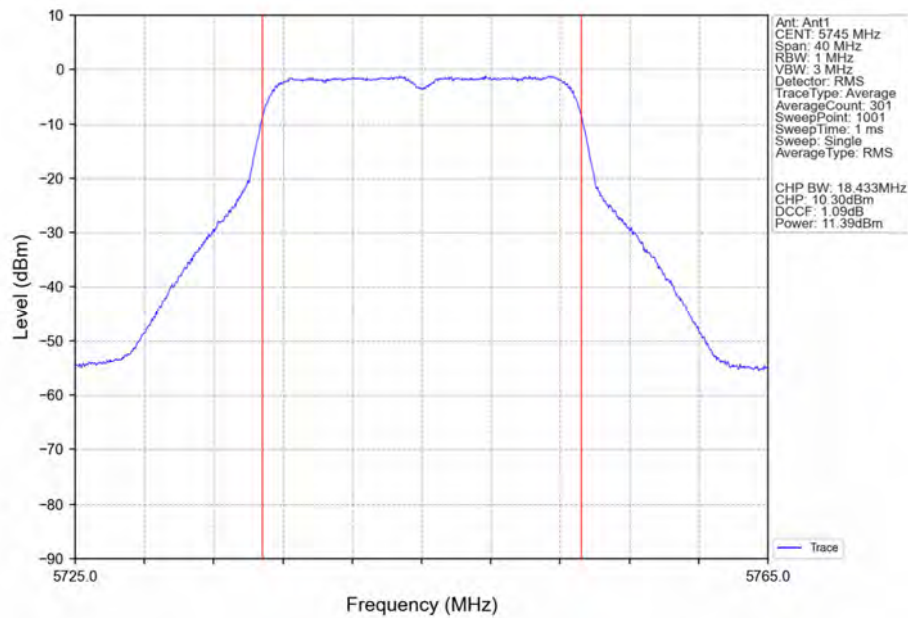
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



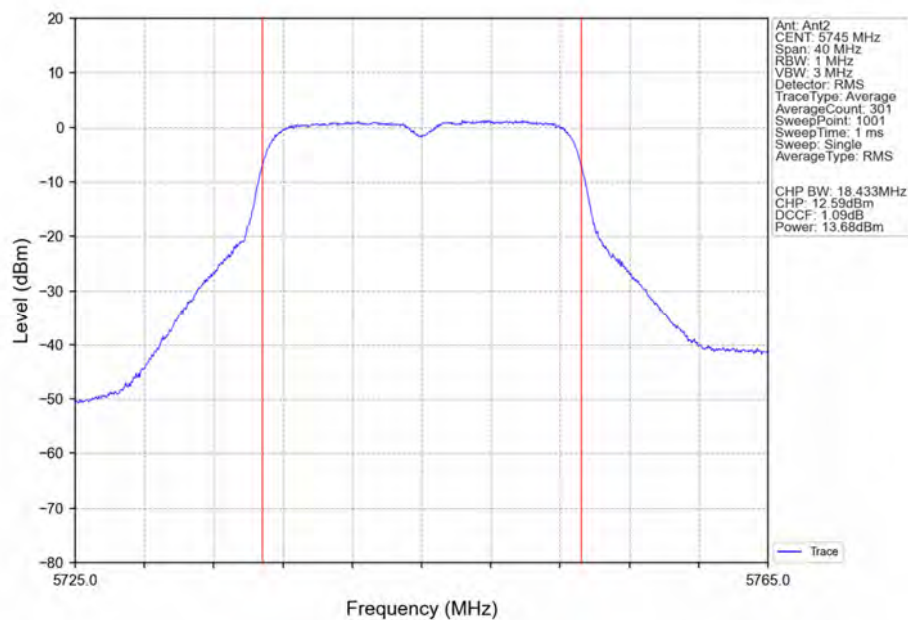
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



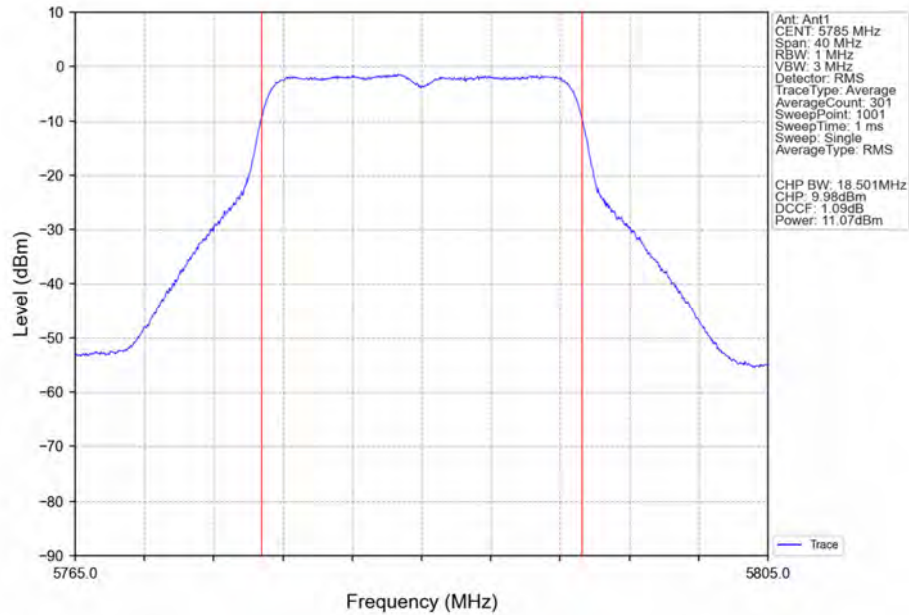
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



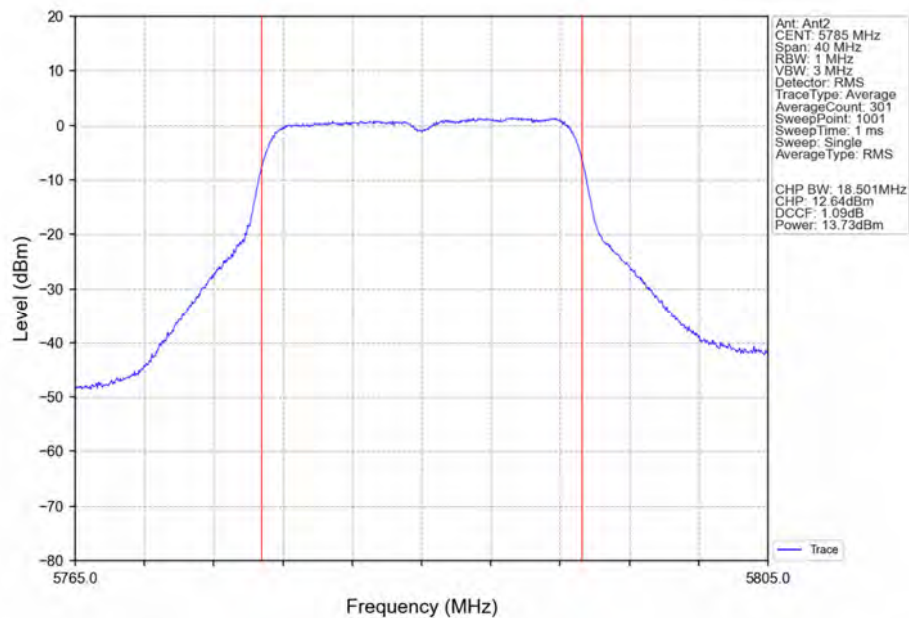
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



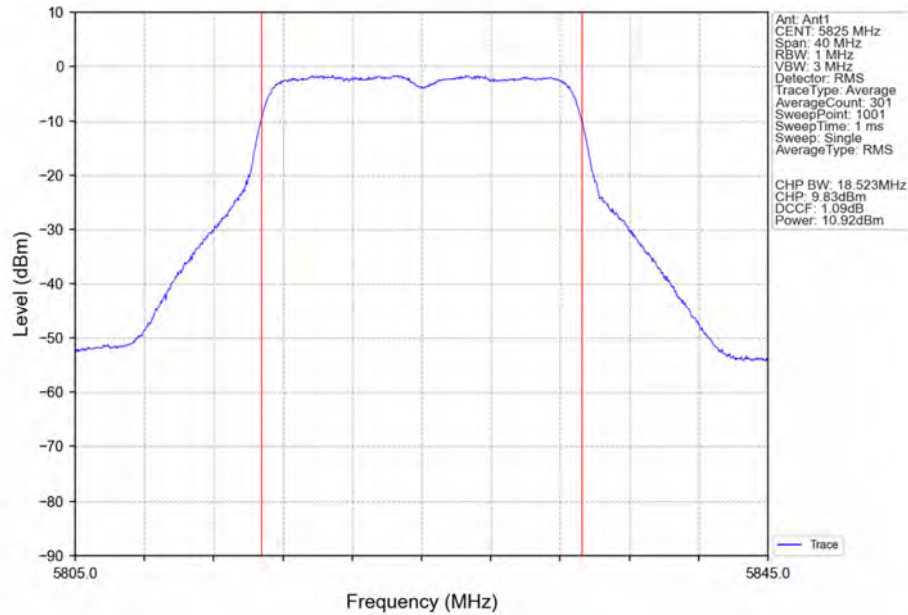
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



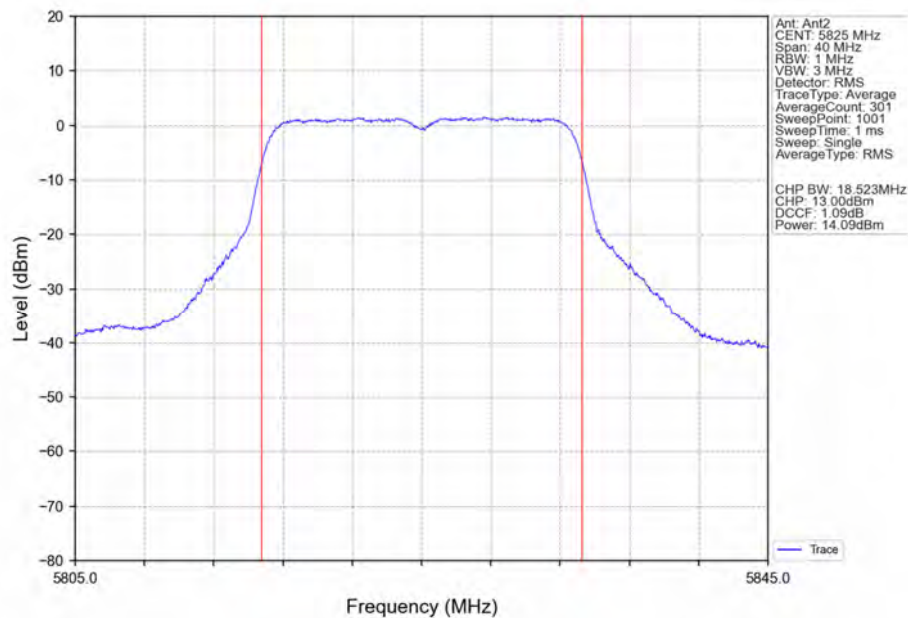
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



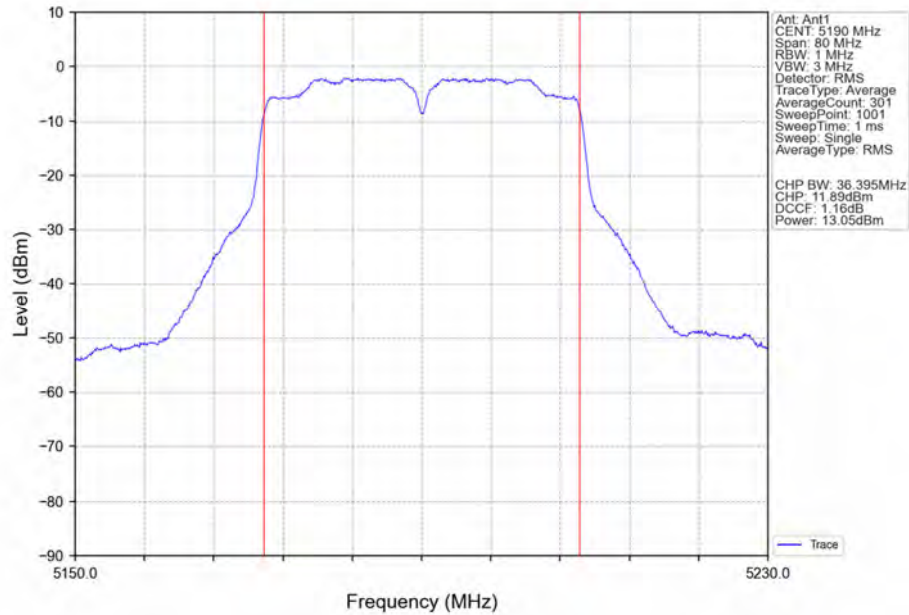
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



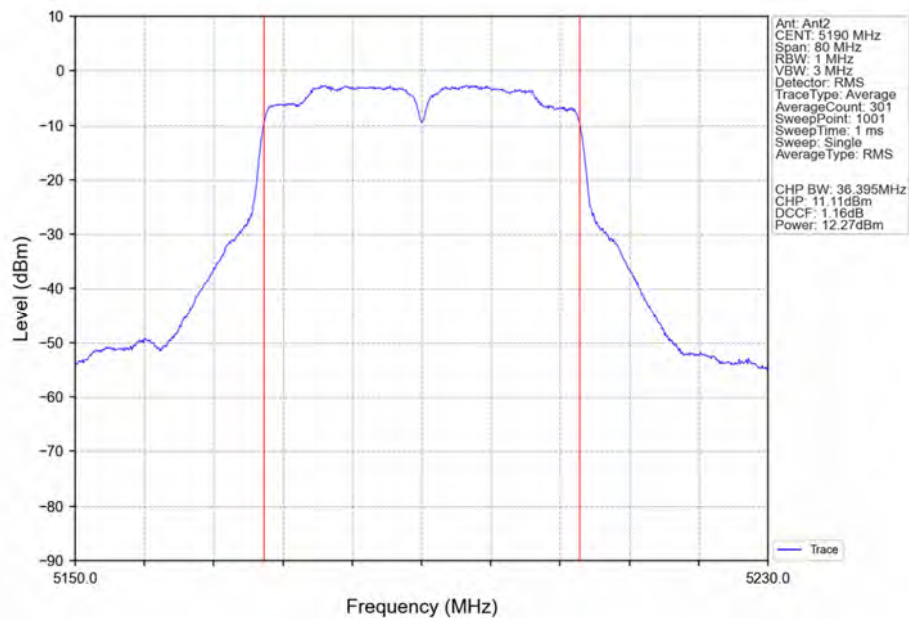
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



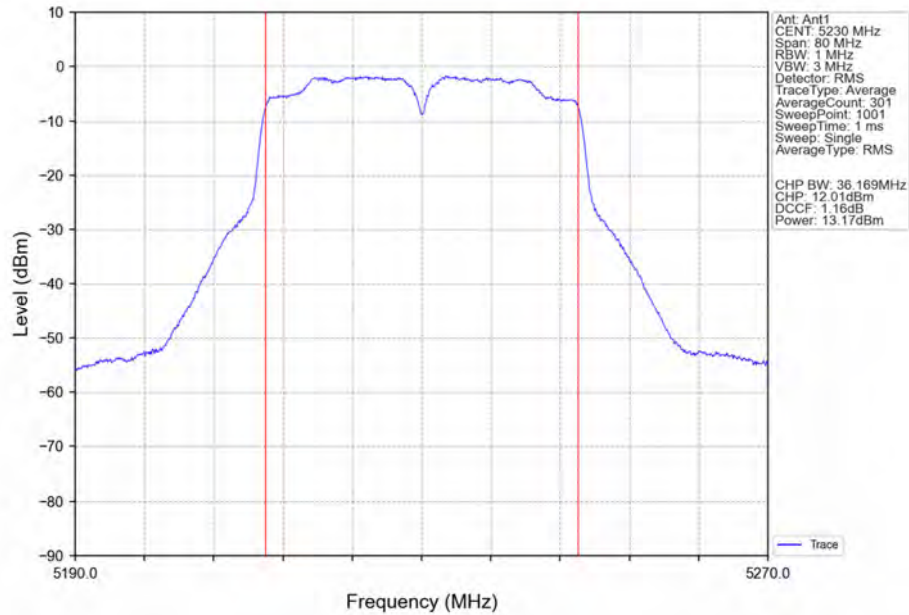
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



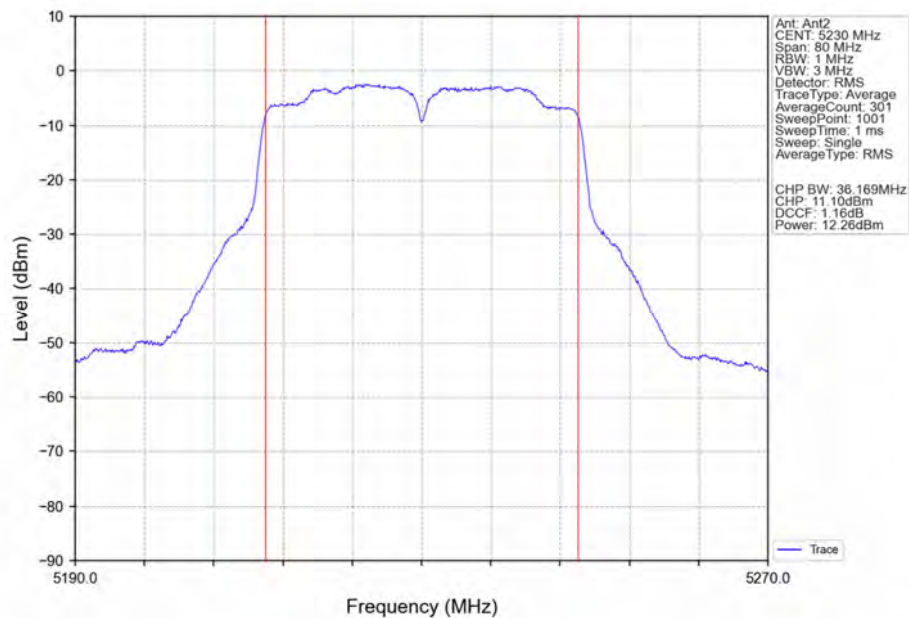
802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



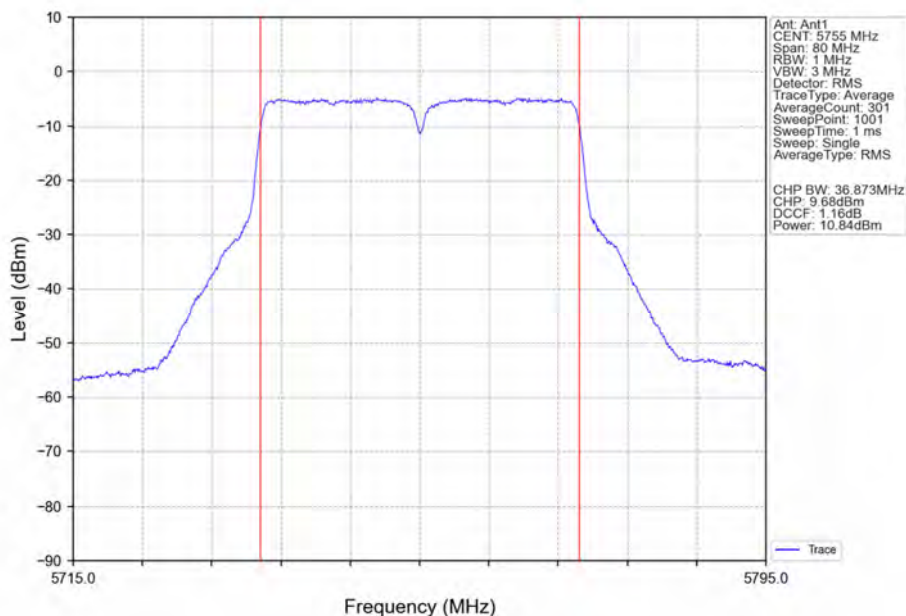
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



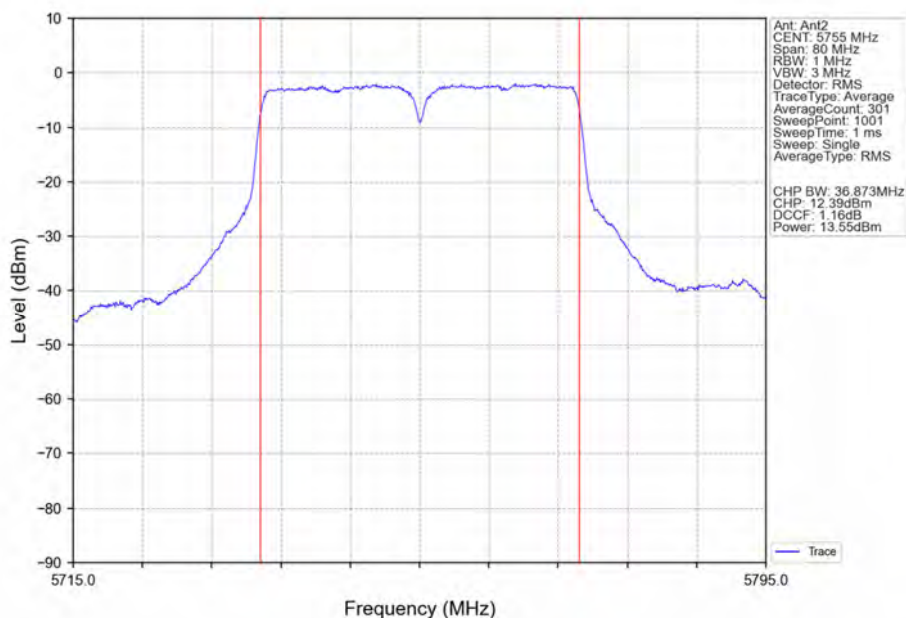
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



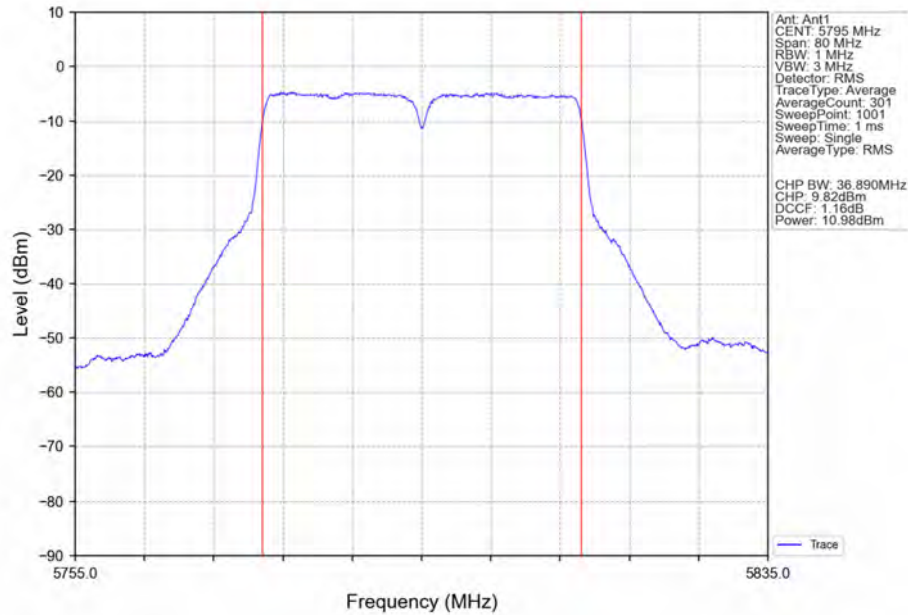
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



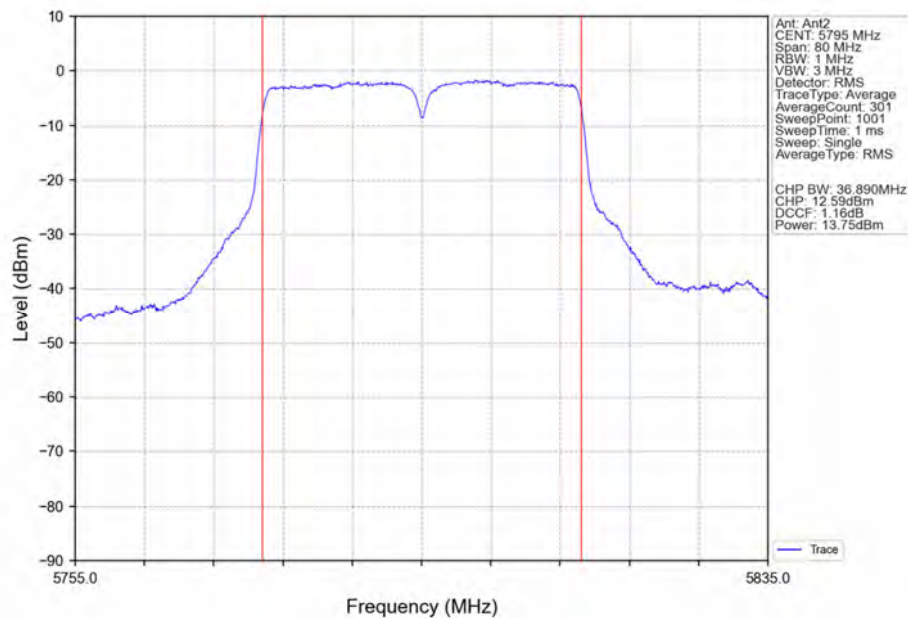
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



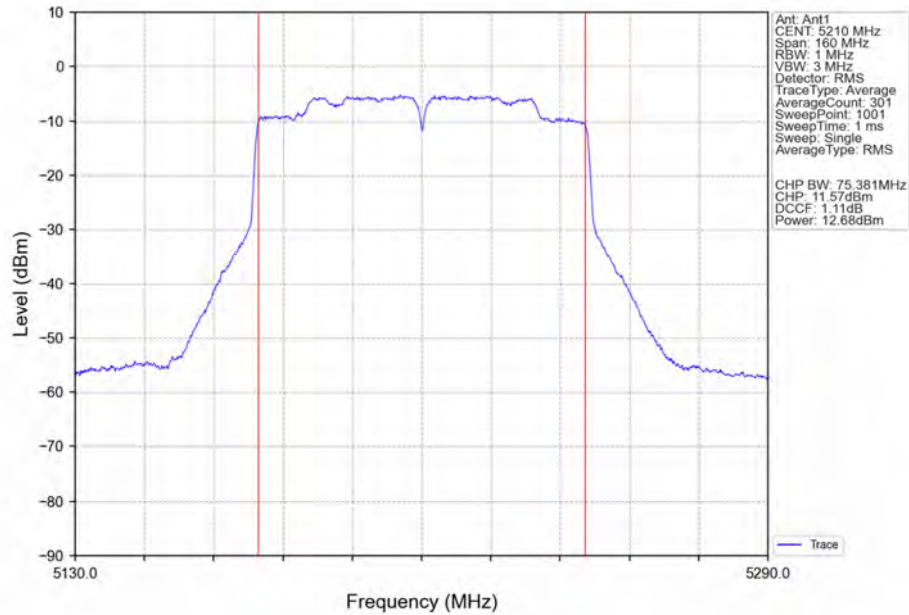
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



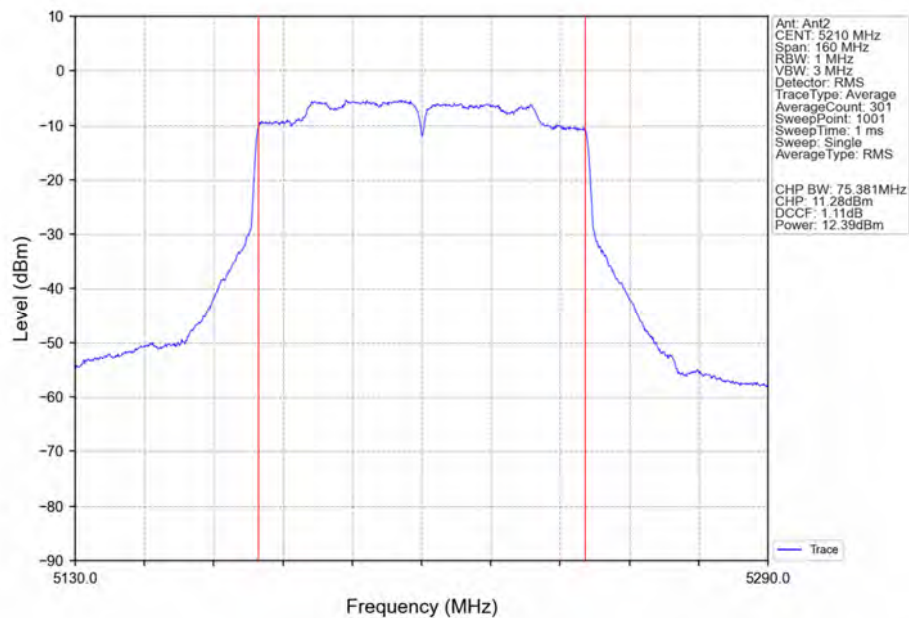
802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



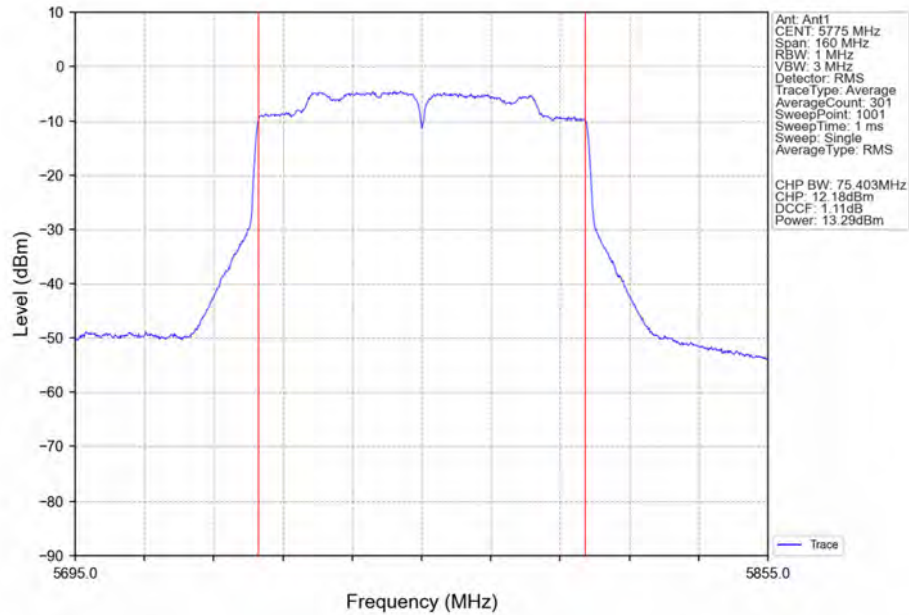
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



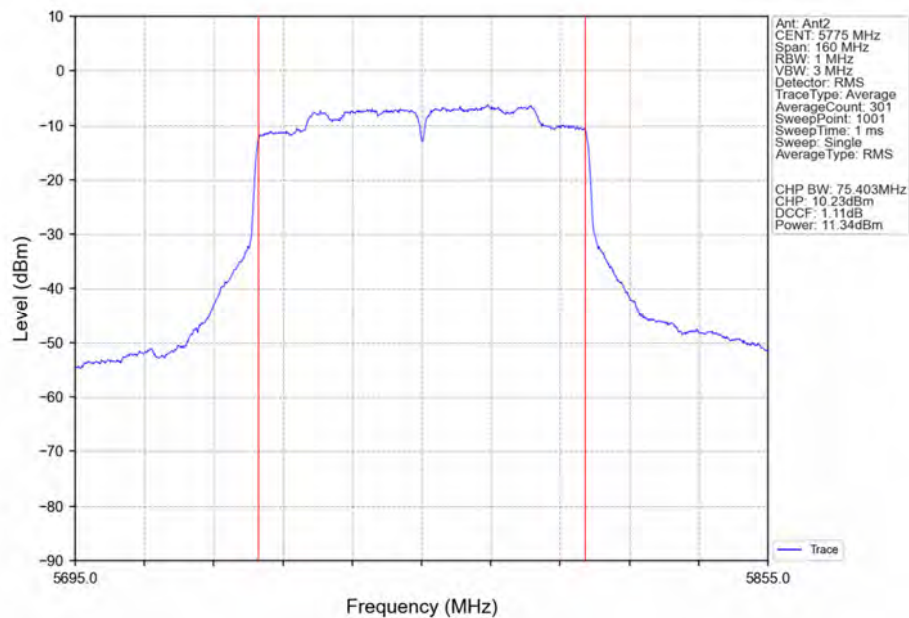
802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



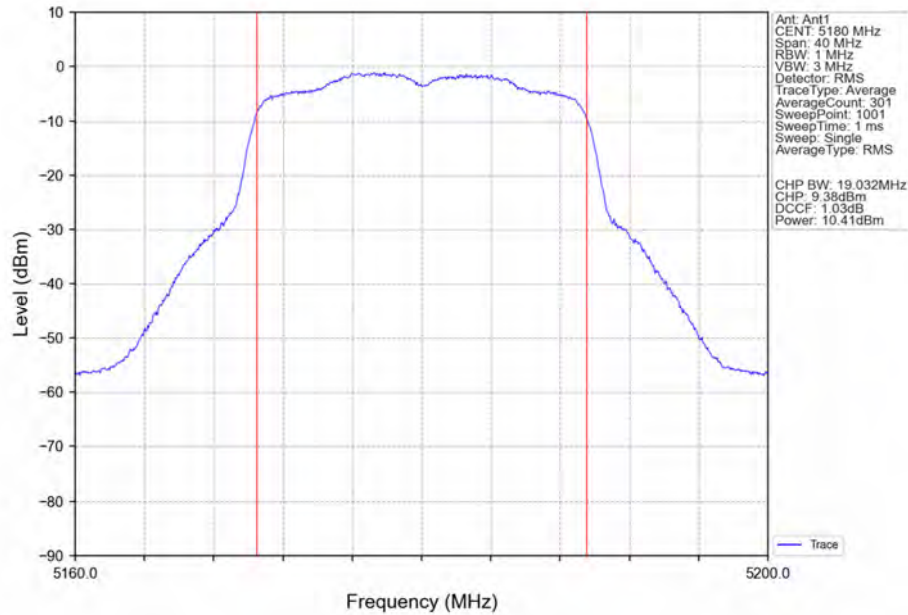
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



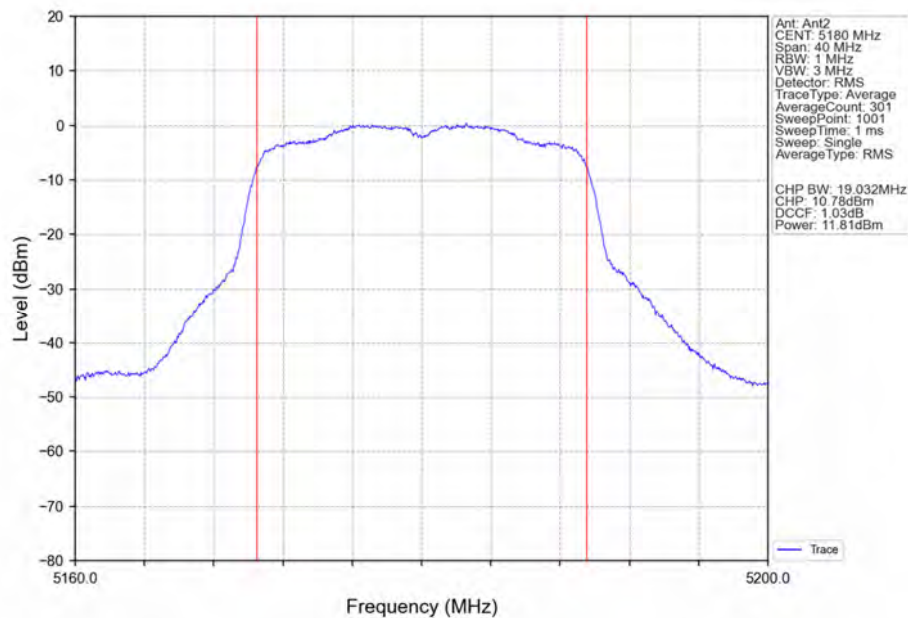
802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



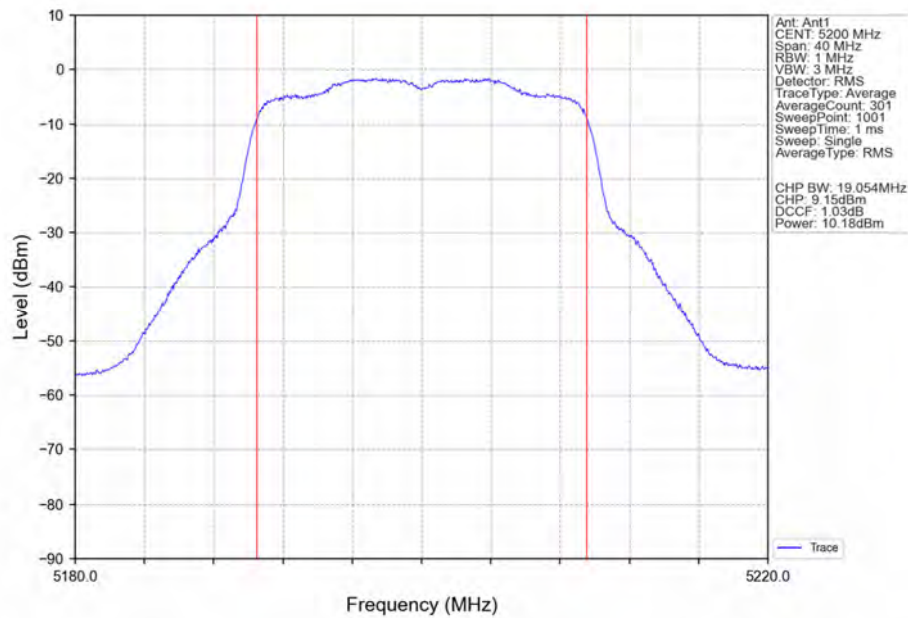
802.11ax(HEW20) LCH_5180MHz_SU_ / Ant1_NTNV



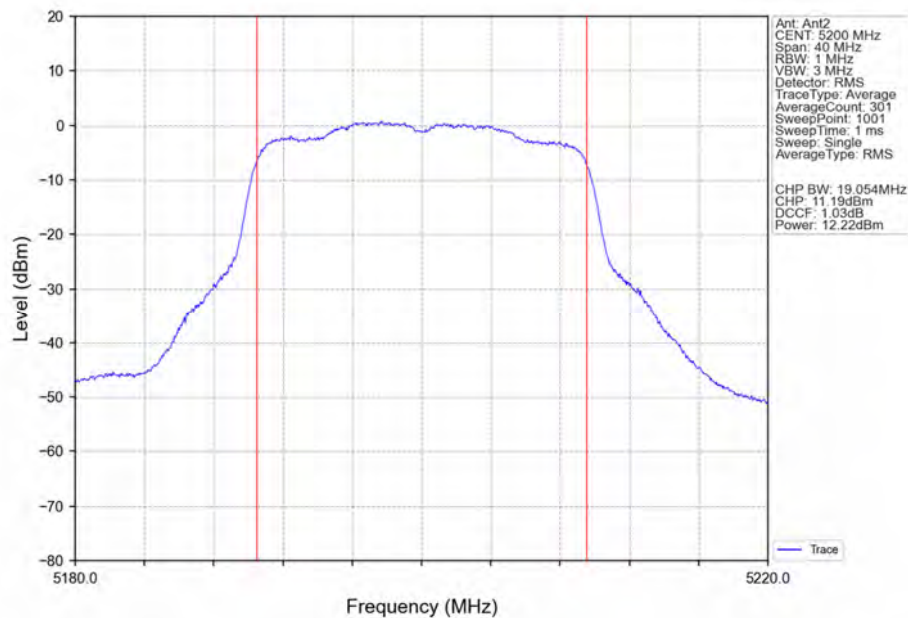
802.11ax(HEW20) LCH_5180MHz_SU_ / Ant2_NTNV



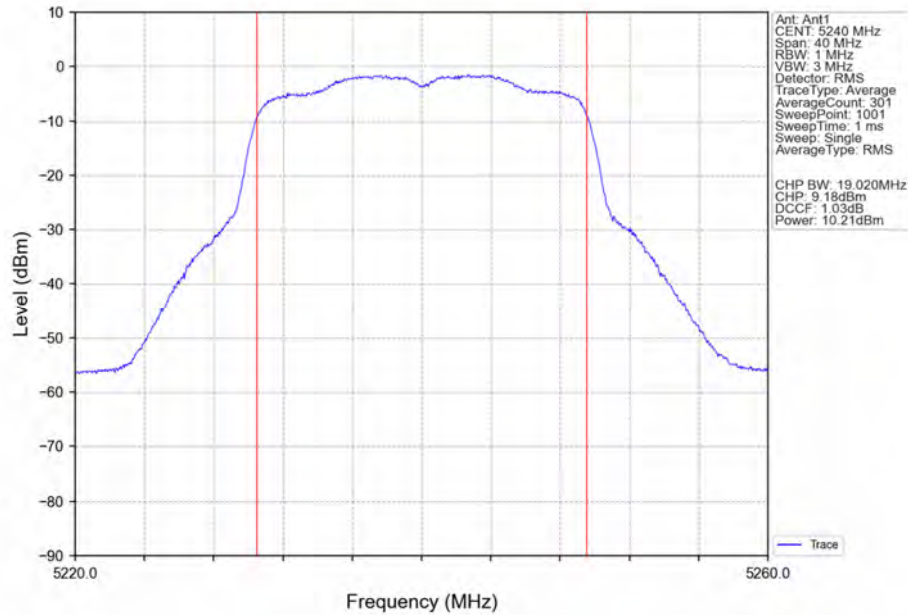
802.11ax(HEW20) MCH_5200MHz_SU_ / Ant1_NTNV



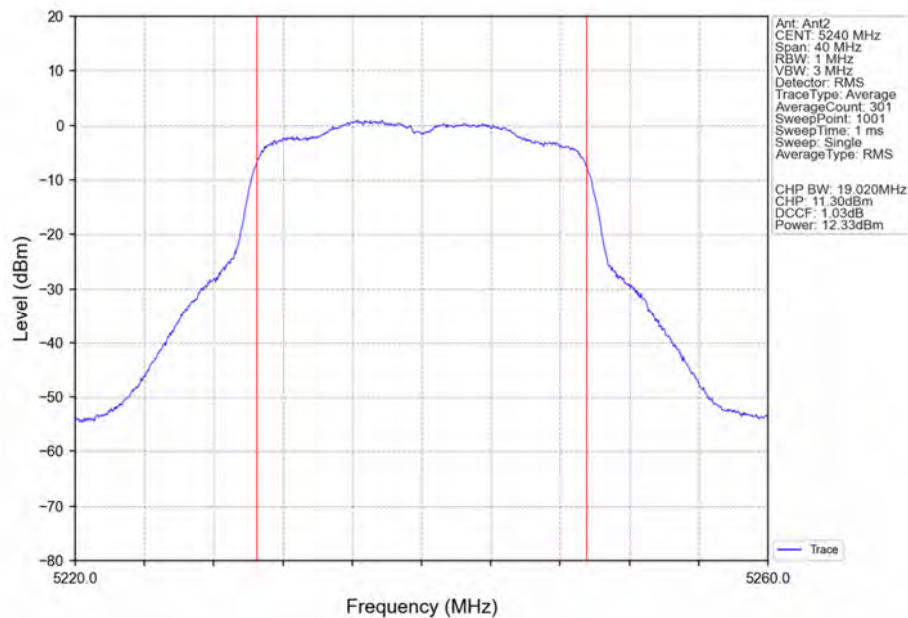
802.11ax(HEW20) MCH_5200MHz_SU_ / Ant2_NTNV



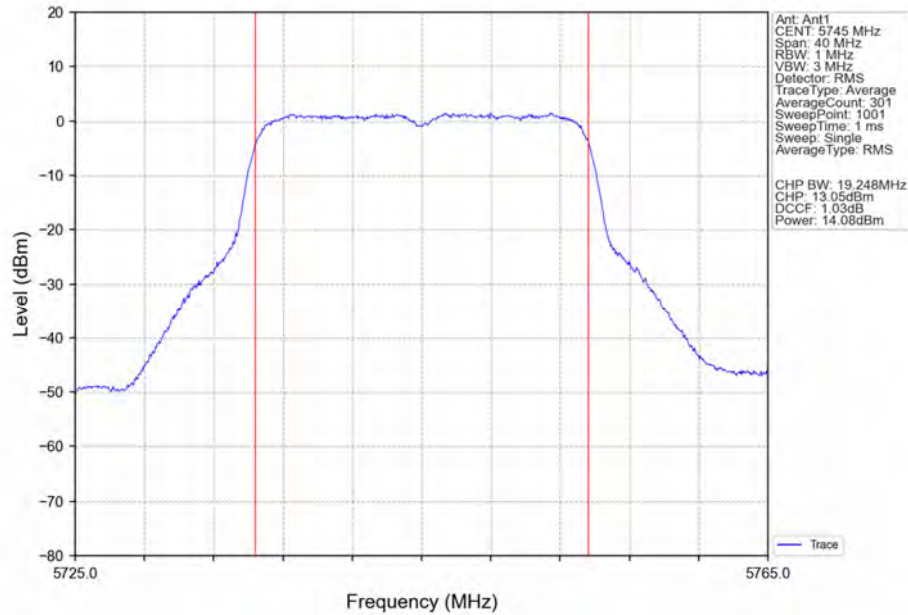
802.11ax(HEW20) HCH_5240MHz_SU_ / Ant1 NTVN



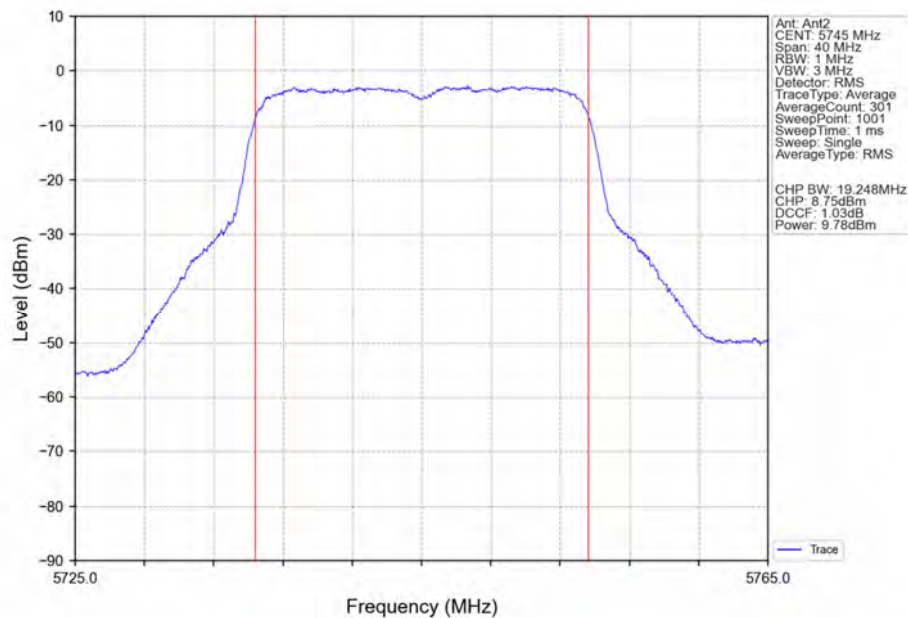
802.11ax(HEW20) HCH_5240MHz_SU_ / Ant2 NTVN



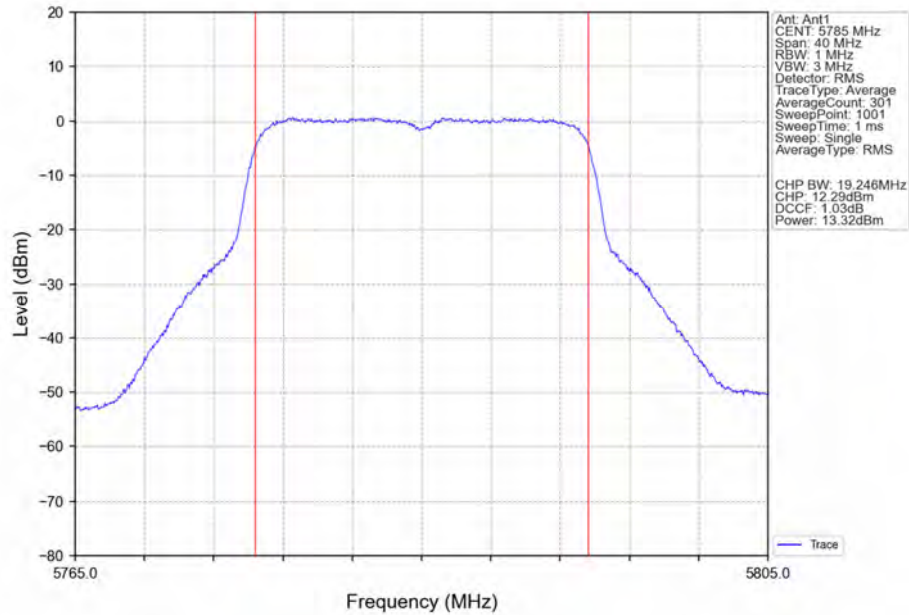
802.11ax(HEW20) LCH_5745MHz_SU_ / Ant1_NTNV



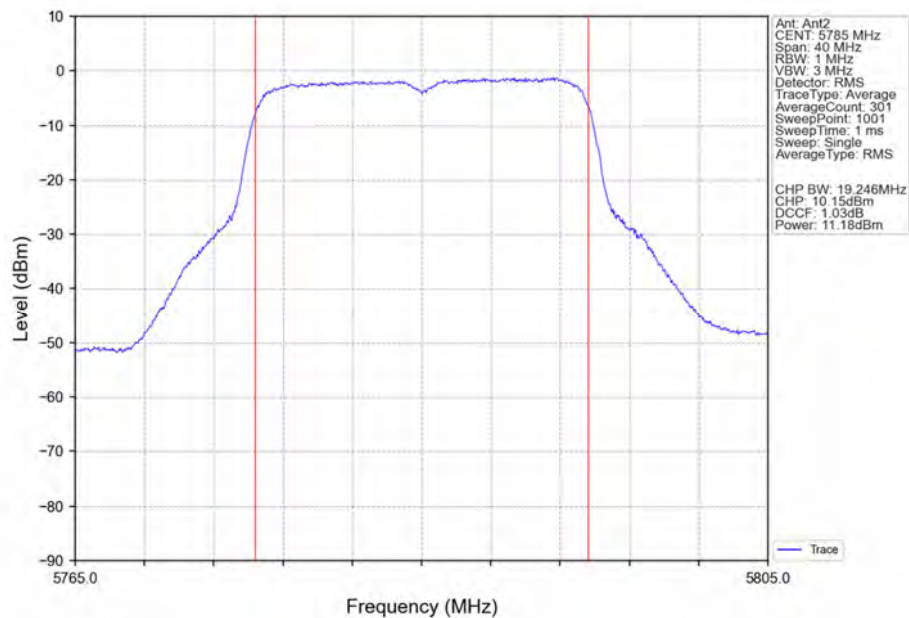
802.11ax(HEW20) LCH_5745MHz_SU_ / Ant2_NTNV



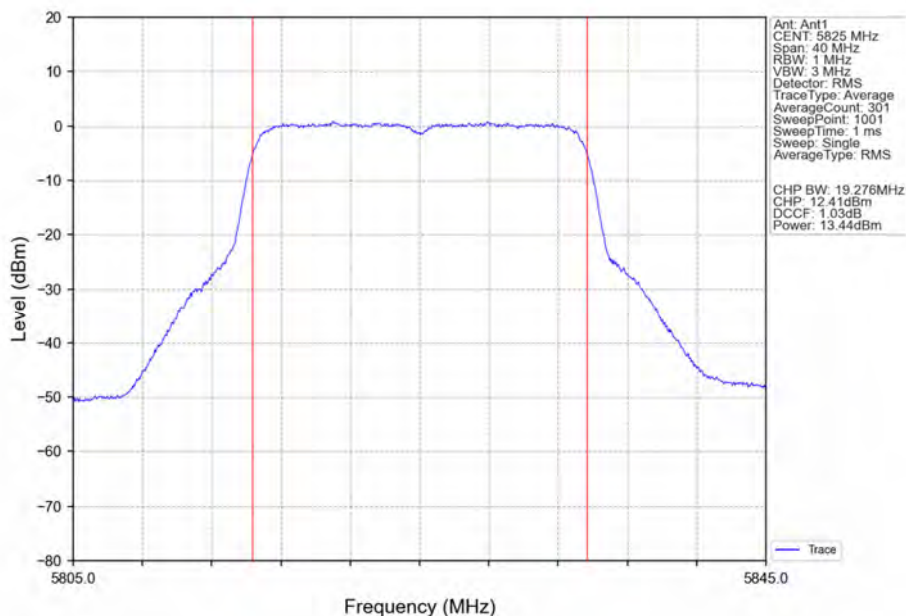
802.11ax(HEW20) MCH_5785MHz_SU_ / Ant1_NTNV



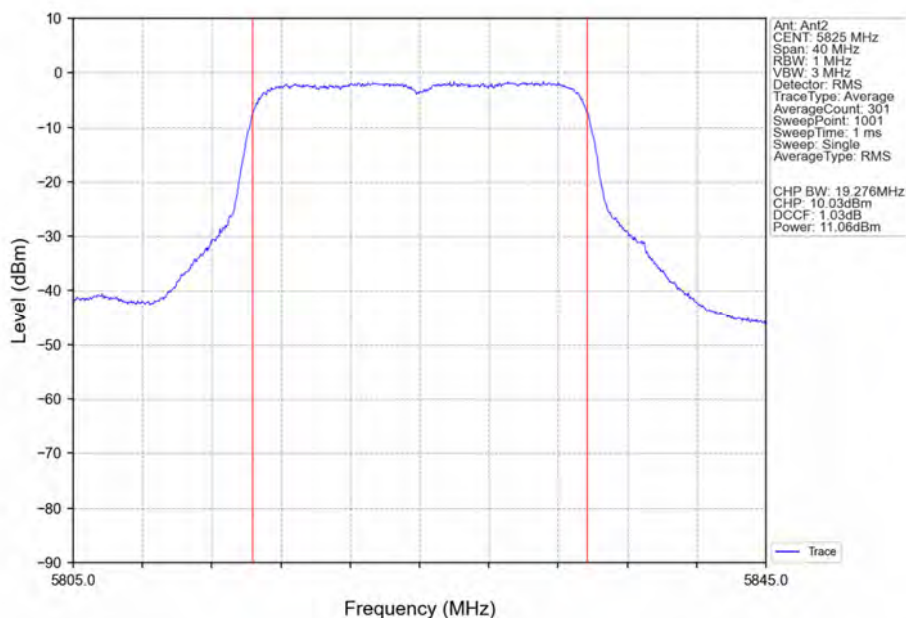
802.11ax(HEW20) MCH_5785MHz_SU_ / Ant2_NTNV



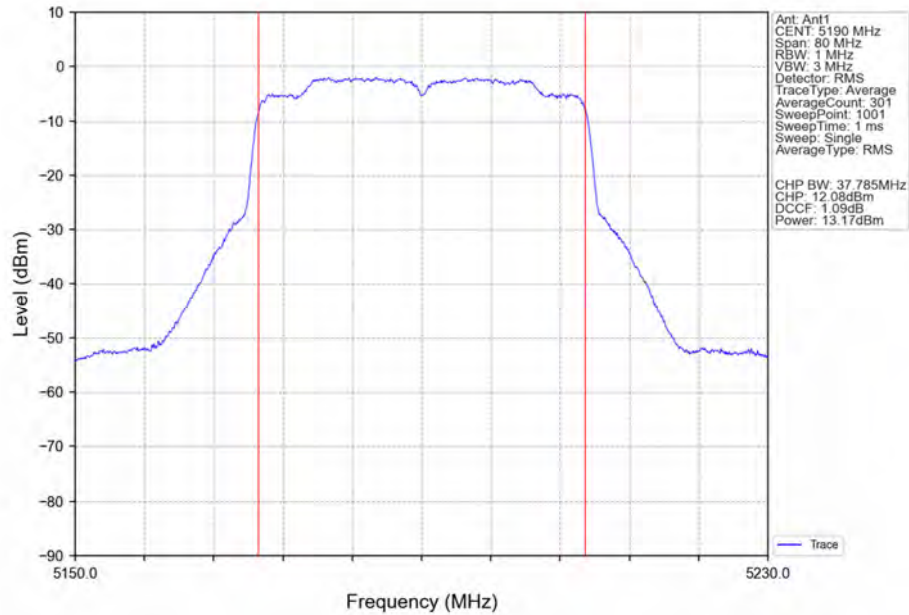
802.11ax(HEW20) HCH_5825MHz_SU_ / Ant1 NTVN



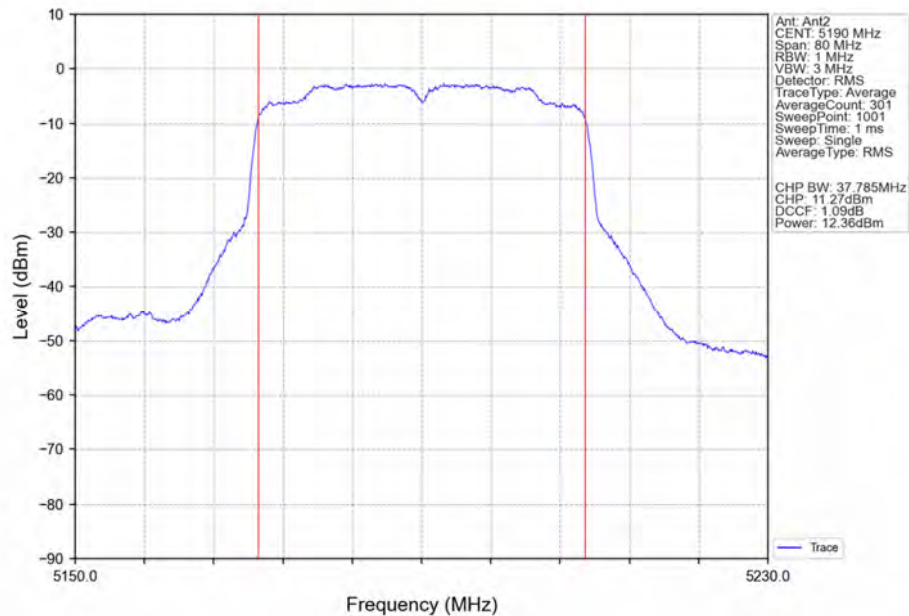
802.11ax(HEW20) HCH_5825MHz_SU_ / Ant2 NTVN



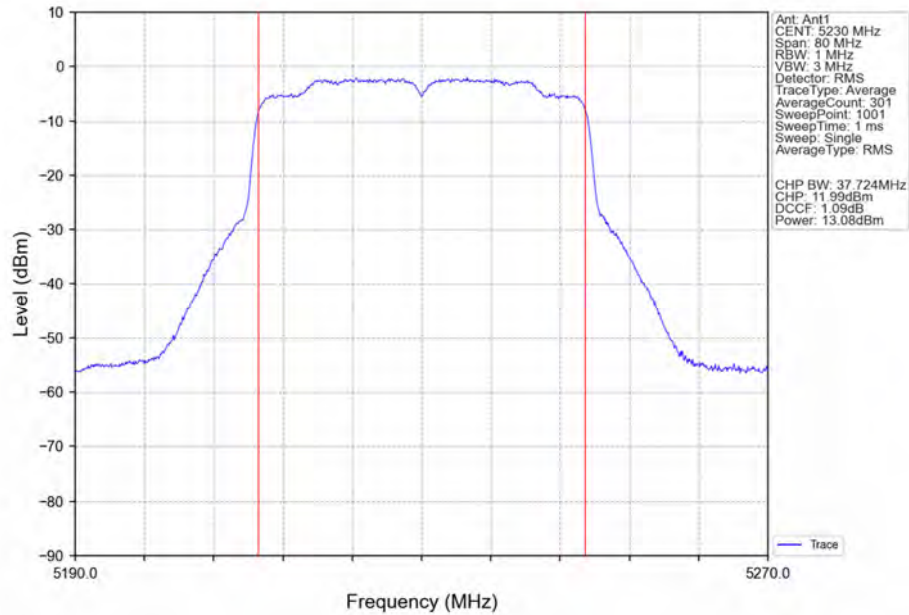
802.11ax(HEW40) LCH_5190MHz_SU_ / Ant1_NTNV



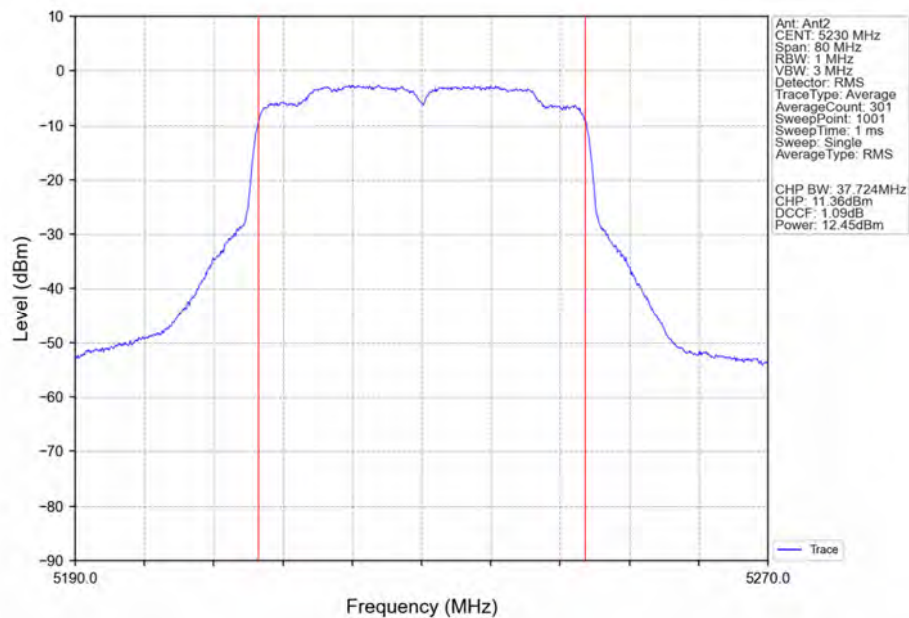
802.11ax(HEW40) LCH_5190MHz_SU_ / Ant2_NTNV



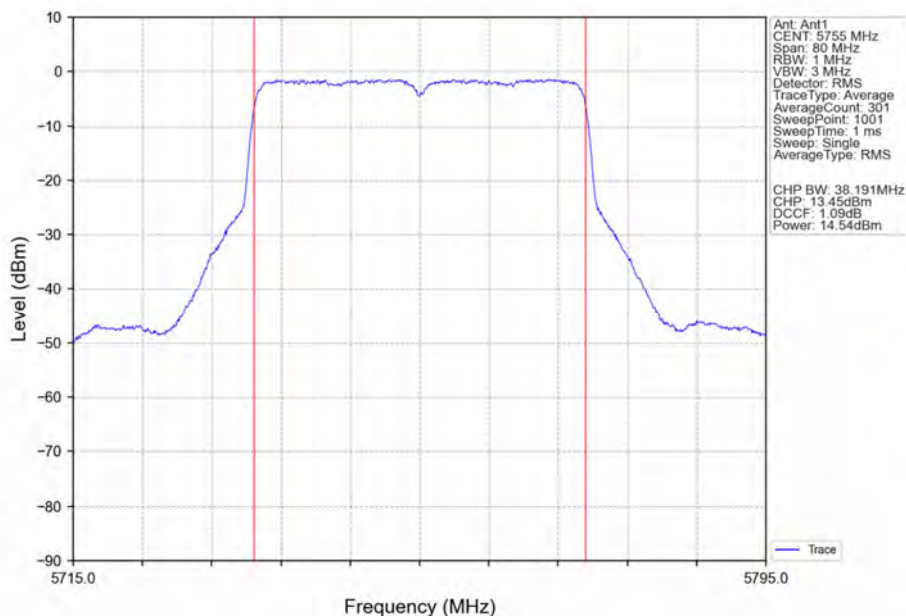
802.11ax(HEW40) HCH_5230MHz_SU_ / Ant1 NTVN



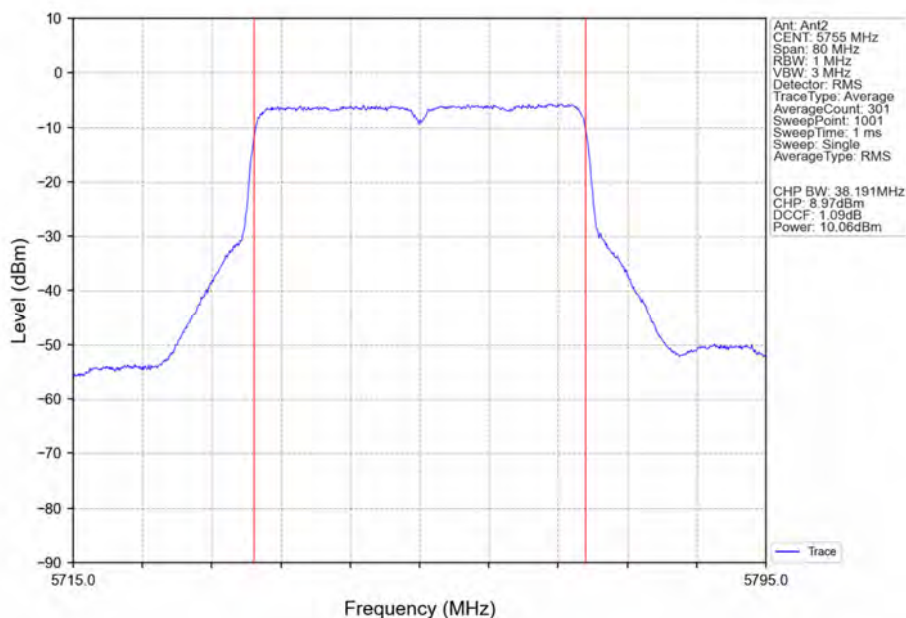
802.11ax(HEW40) HCH_5230MHz_SU_ / Ant2 NTVN



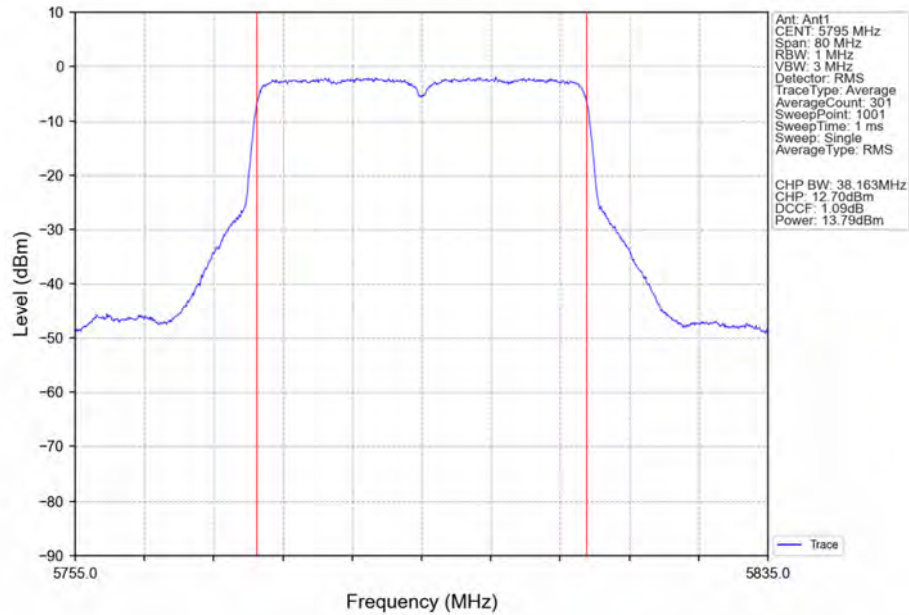
802.11ax(HEW40) LCH_5755MHz_SU_ / Ant1_NTNV



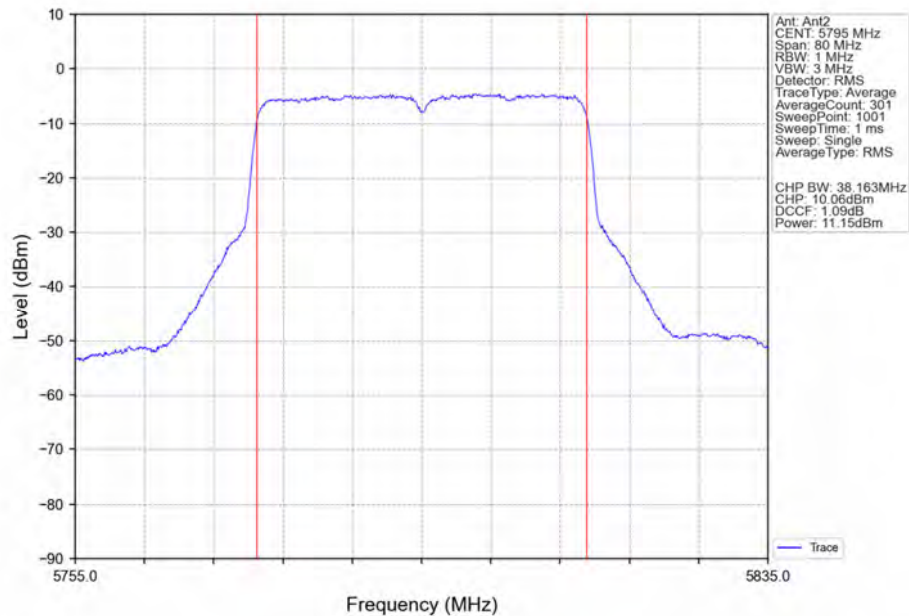
802.11ax(HEW40) LCH_5755MHz_SU_ / Ant2_NTNV



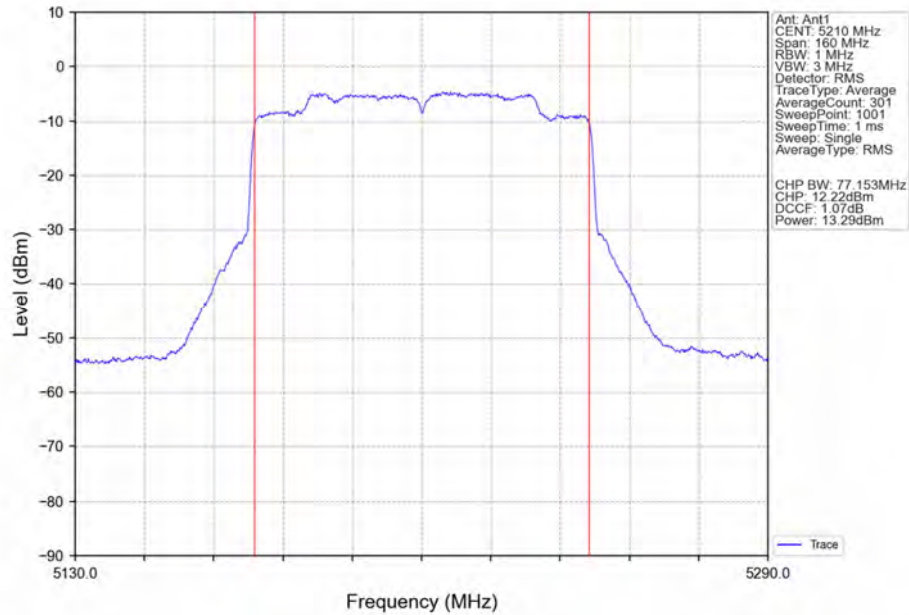
802.11ax(HEW40) HCH_5795MHz_SU_ / Ant1 NTVN



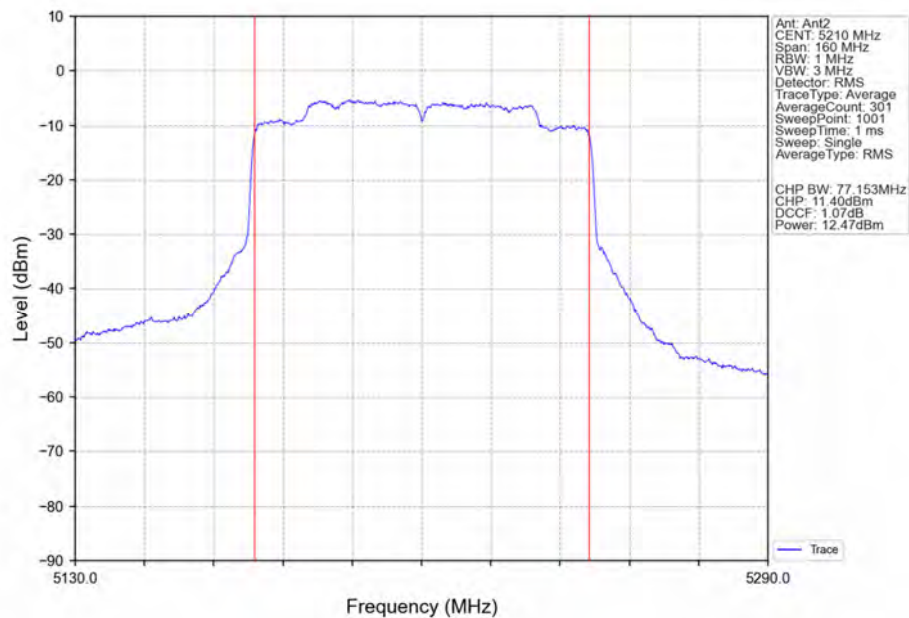
802.11ax(HEW40) HCH_5795MHz_SU_ / Ant2 NTVN



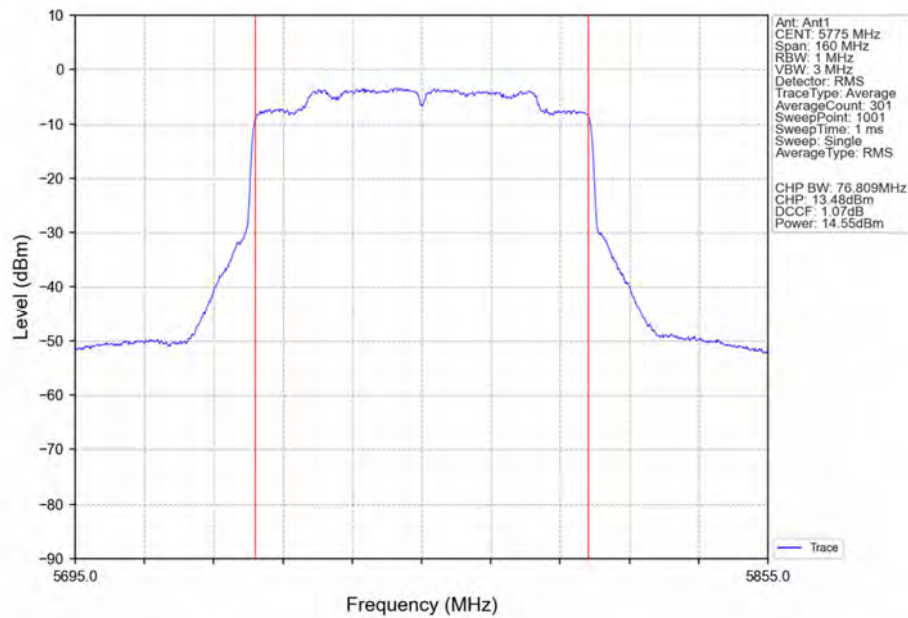
802.11ax(HEW80) MCH_5210MHz_SU_ / Ant1_NTNV



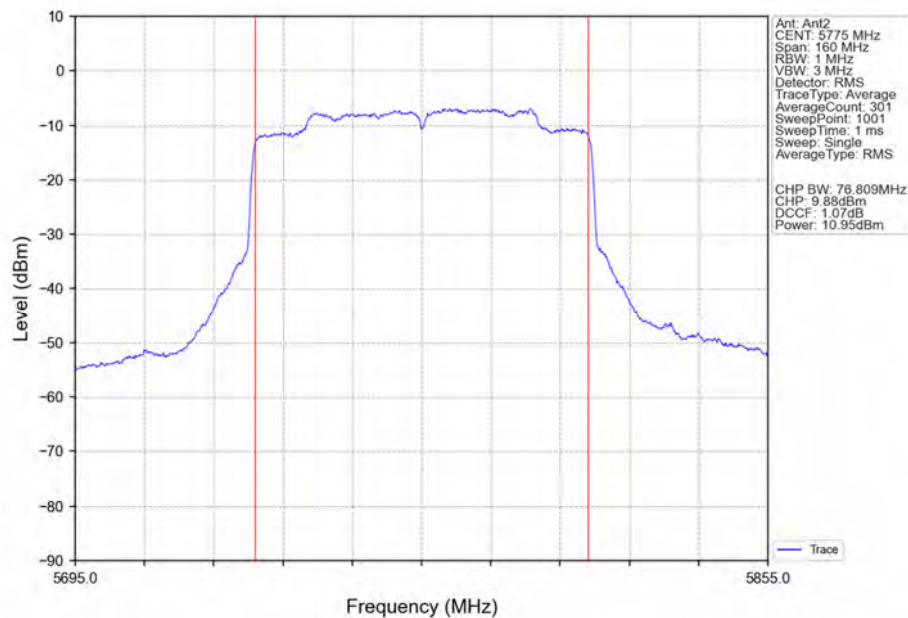
802.11ax(HEW80) MCH_5210MHz_SU_ / Ant2_NTNV



802.11ax(HEW80) MCH_5775MHz_SU_ / Ant1_NTNV



802.11ax(HEW80) MCH_5775MHz_SU_ / Ant2_NTNV



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	/	/	3.04	0.99	/	<=11	Pass
		5200	/	/	2.81	0.96	/	<=11	Pass
		5240	/	/	2.73	1.15	/	<=11	Pass
802.11n (HT20)	SISO	5180	/	/	2.24	1.38	4.84	<=11	Pass
		5200	/	/	2.40	1.44	4.96	<=11	Pass
		5240	/	/	2.39	1.62	5.03	<=11	Pass
802.11n (HT40)	SISO	5190	/	/	-1.07	-1.71	1.63	<=11	Pass
		5230	/	/	-0.66	-1.40	2.00	<=11	Pass
802.11ac (VHT20)	SISO	5180	/	/	2.28	1.86	5.09	<=11	Pass
		5200	/	/	2.41	1.96	5.20	<=11	Pass
		5240	/	/	2.48	2.00	5.26	<=11	Pass
802.11ac (VHT40)	SISO	5190	/	/	-0.80	-1.29	1.97	<=11	Pass
		5230	/	/	-0.55	-1.47	2.02	<=11	Pass
802.11ac (VHT80)	SISO	5210	/	/	-4.16	-4.22	-1.18	<=11	Pass
802.11ax (HEW20)	SISO	5180	SU	/	-0.09	1.30	3.67	<=11	Pass
		5200	SU	/	-0.66	1.74	3.71	<=11	Pass
		5240	SU	/	-0.35	1.95	3.96	<=11	Pass
802.11ax (HEW40)	SISO	5190	SU	/	-0.77	-1.53	1.88	<=11	Pass
		5230	SU	/	-0.68	-1.58	1.90	<=11	Pass
802.11ax (HEW80)	SISO	5210	SU	/	-3.86	-4.23	-1.03	<=11	Pass

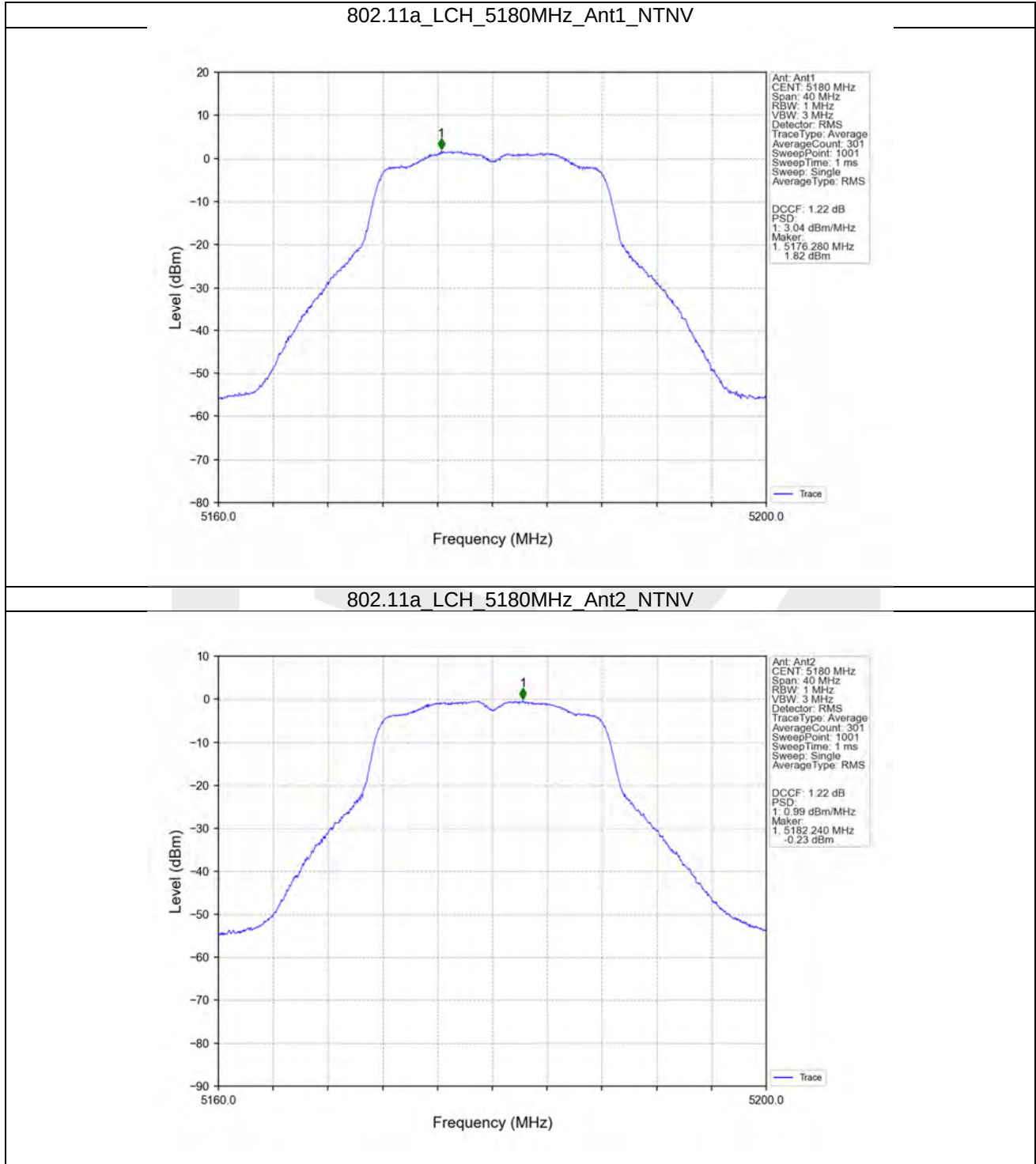
Note1: Antenna Gain: Ant1: 1.74dBi; Ant2: 1.74dBi;
Note2: Directional Gain: Correlated (Directional Gain =4.75dBi)
Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi

4.1.2 PSD-Band3

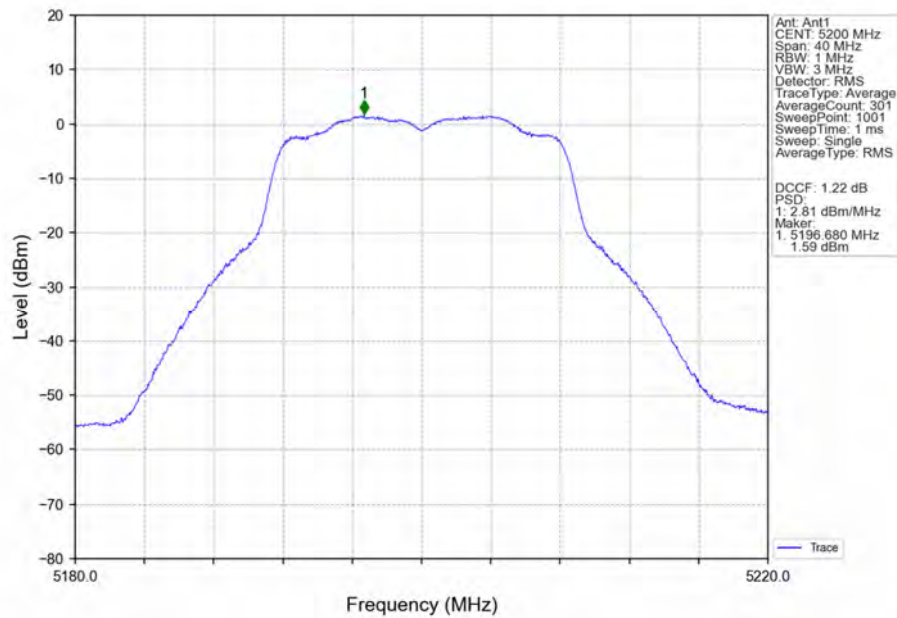
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5745	/	/	-2.70	-3.78	/	<=30	Pass
		5785	/	/	-2.56	-0.58	/	<=30	Pass
		5825	/	/	-2.91	-0.49	/	<=30	Pass
802.11n (HT20)	SISO	5745	/	/	-2.57	-0.78	1.43	<=30	Pass
		5785	/	/	-2.35	-0.30	1.81	<=30	Pass
		5825	/	/	-2.81	-0.11	1.76	<=30	Pass
802.11n (HT40)	SISO	5755	/	/	-5.32	-3.90	-1.54	<=30	Pass
		5795	/	/	-5.74	-3.70	-1.59	<=30	Pass
802.11ac (VHT20)	SISO	5745	/	/	-2.34	-0.05	1.96	<=30	Pass
		5785	/	/	-2.53	0.13	2.01	<=30	Pass
		5825	/	/	-2.86	0.38	2.07	<=30	Pass
802.11ac (VHT40)	SISO	5755	/	/	-5.75	-3.17	-1.26	<=30	Pass
		5795	/	/	-5.52	-2.84	-0.97	<=30	Pass
802.11ac (VHT80)	SISO	5775	/	/	-5.26	-6.85	-2.97	<=30	Pass
802.11ax (HEW20)	SISO	5745	SU	/	0.23	-4.12	1.59	<=30	Pass
		5785	SU	/	-0.46	-2.36	1.70	<=30	Pass
		5825	SU	/	-0.44	-2.90	1.51	<=30	Pass
802.11ax (HEW40)	SISO	5755	SU	/	-2.41	-6.83	-1.07	<=30	Pass
		5795	SU	/	-3.27	-5.75	-1.33	<=30	Pass
802.11ax (HEW80)	SISO	5775	SU	/	-4.23	-7.66	-2.60	<=30	Pass
Note1: Antenna Gain: Ant1: 1.89dBi; Ant2: 1.89dBi; Note2: Directional Gain: Correlated (Directional Gain =4.90dBi) Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi									

4.2 Test Graph

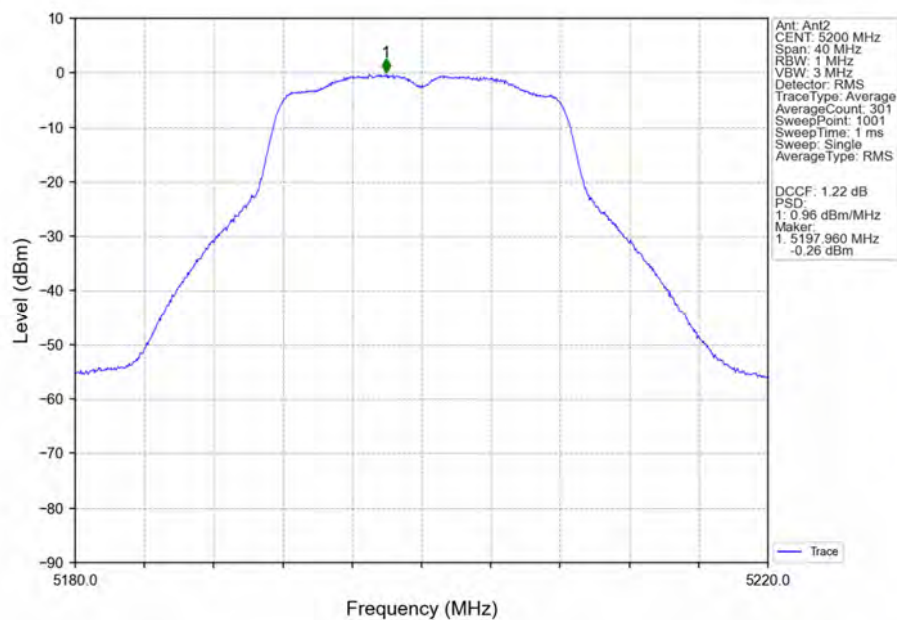
4.2.1 PSD



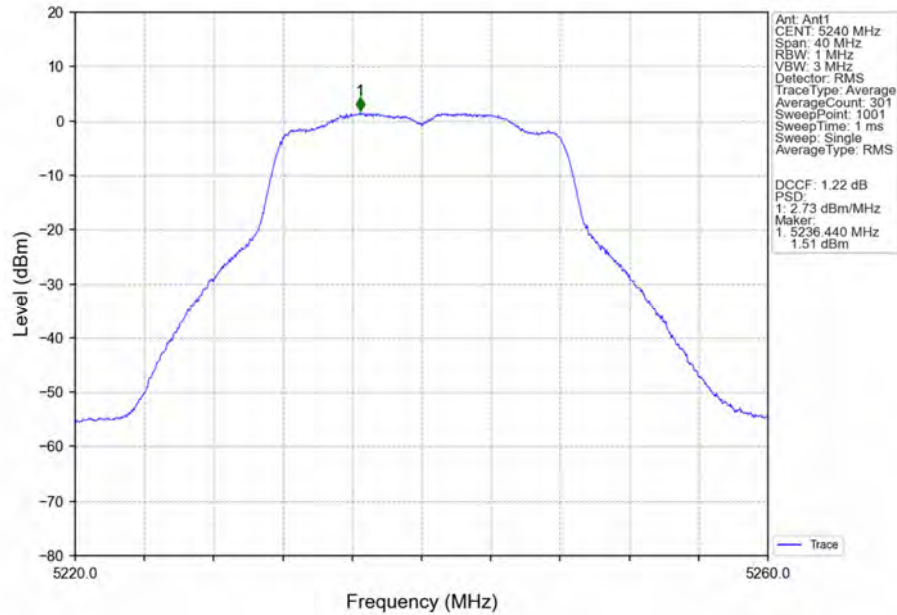
802.11a_MCH_5200MHz_Ant1_NTNV



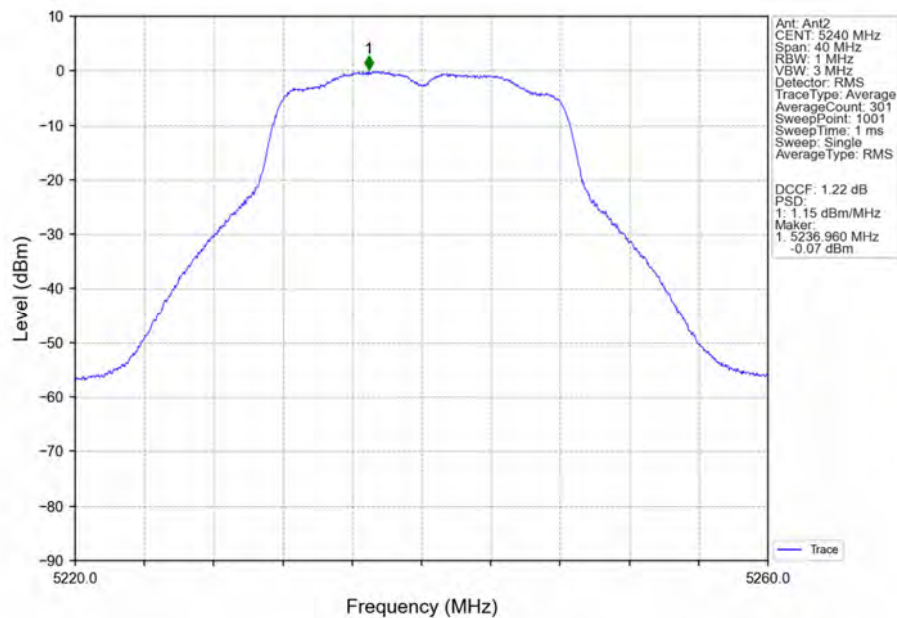
802.11a_MCH_5200MHz_Ant2_NTNV



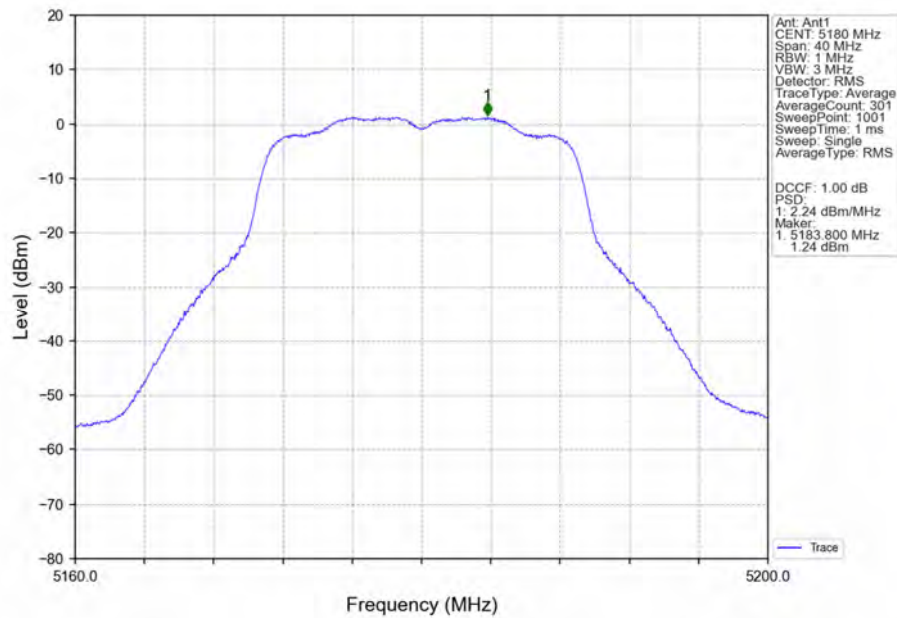
802.11a_HCH_5240MHz_Ant1_NTNV



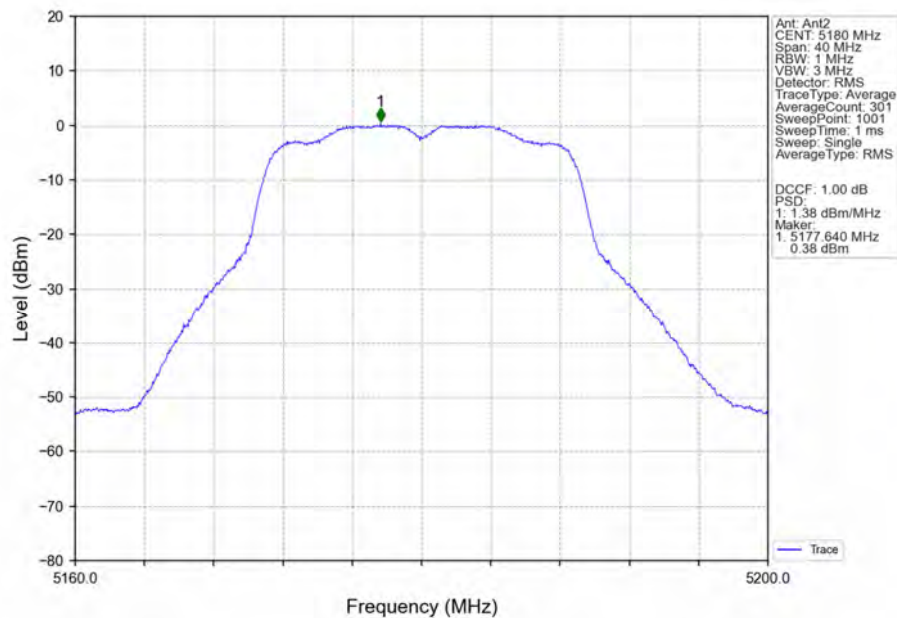
802.11a_HCH_5240MHz_Ant2_NTNV



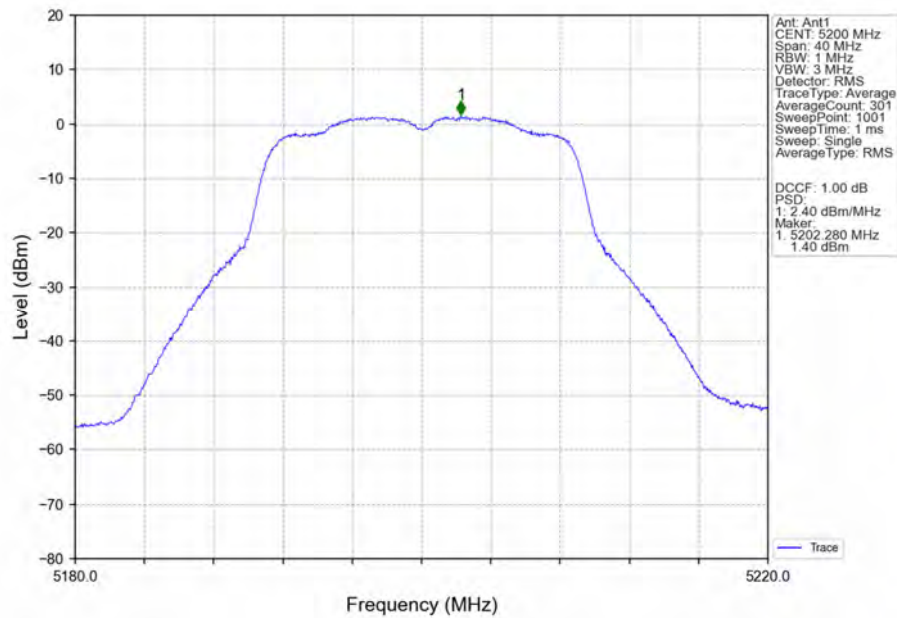
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



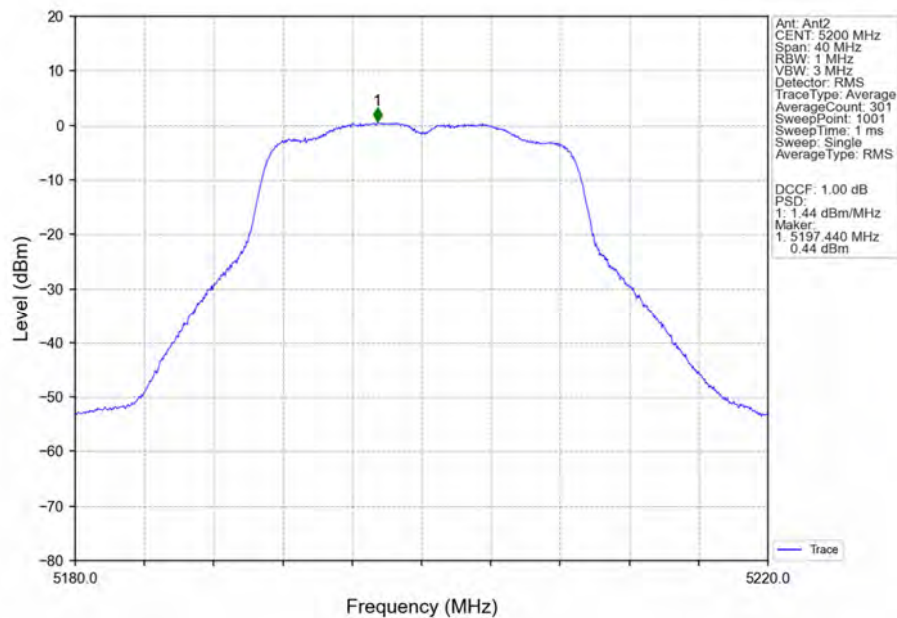
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



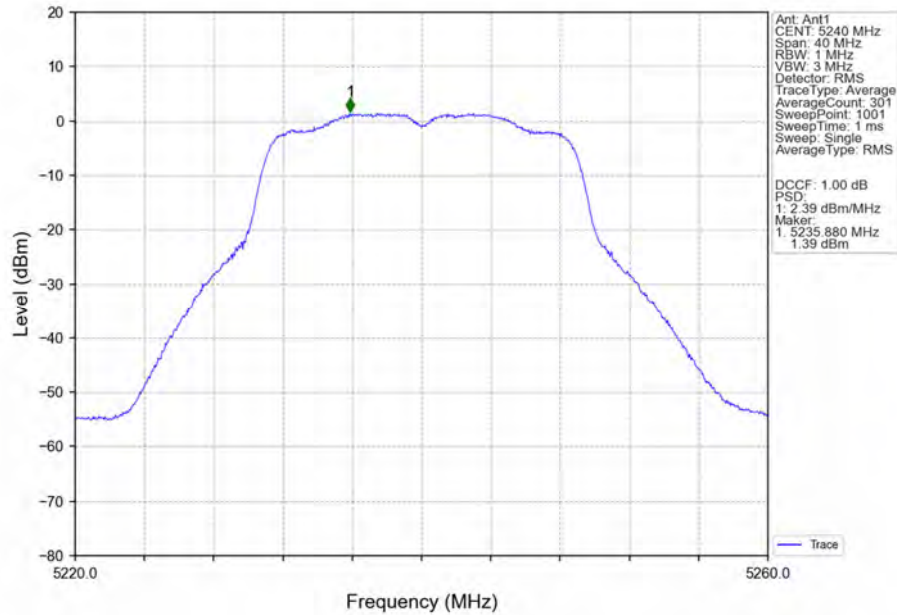
802.11n(HT20)_MCH 5200MHz_Ant1_NTNV



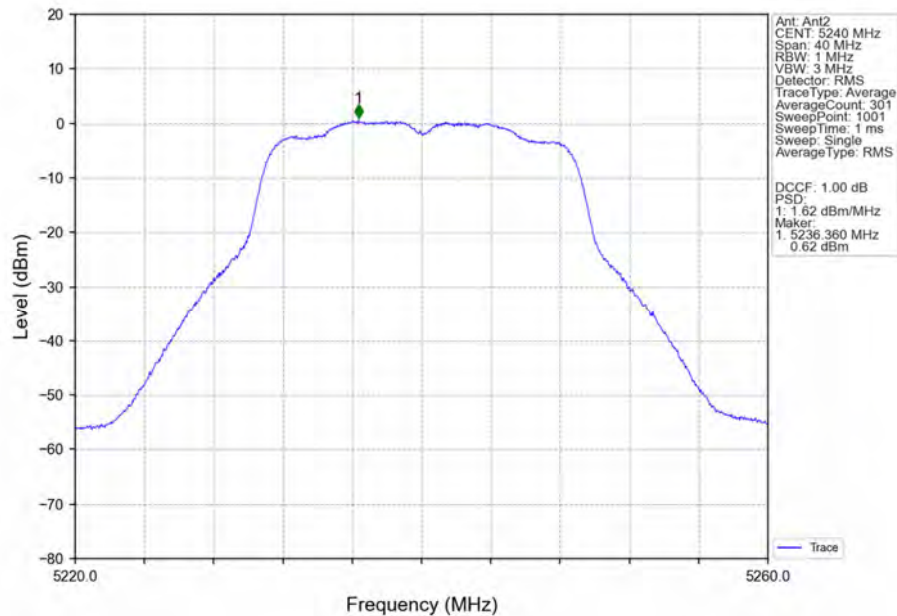
802.11n(HT20)_MCH 5200MHz_Ant2_NTNV



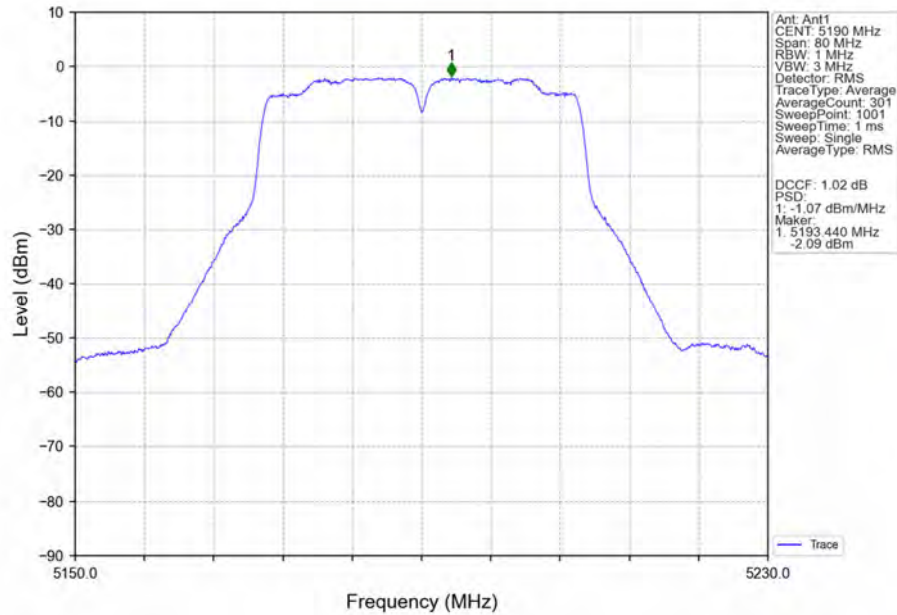
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



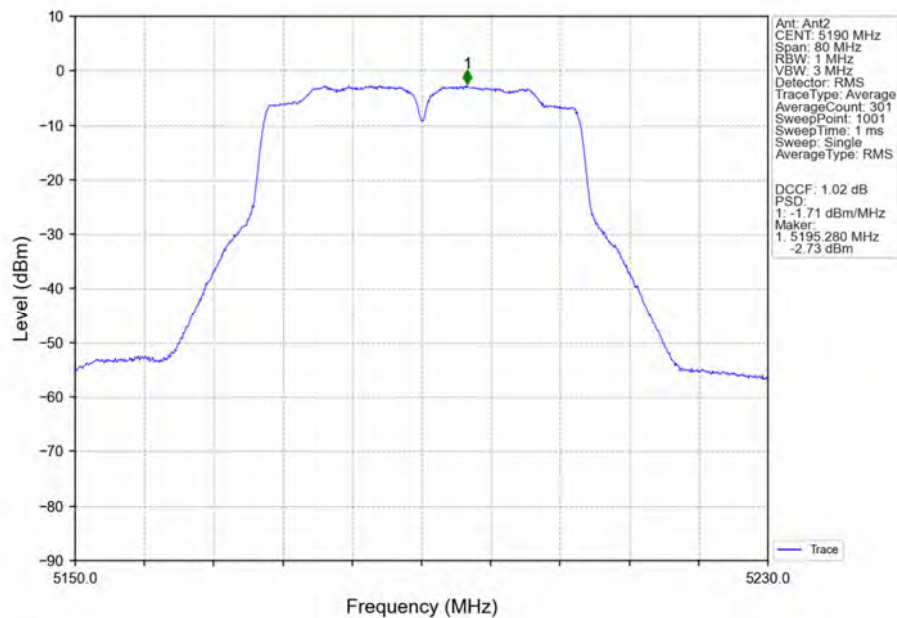
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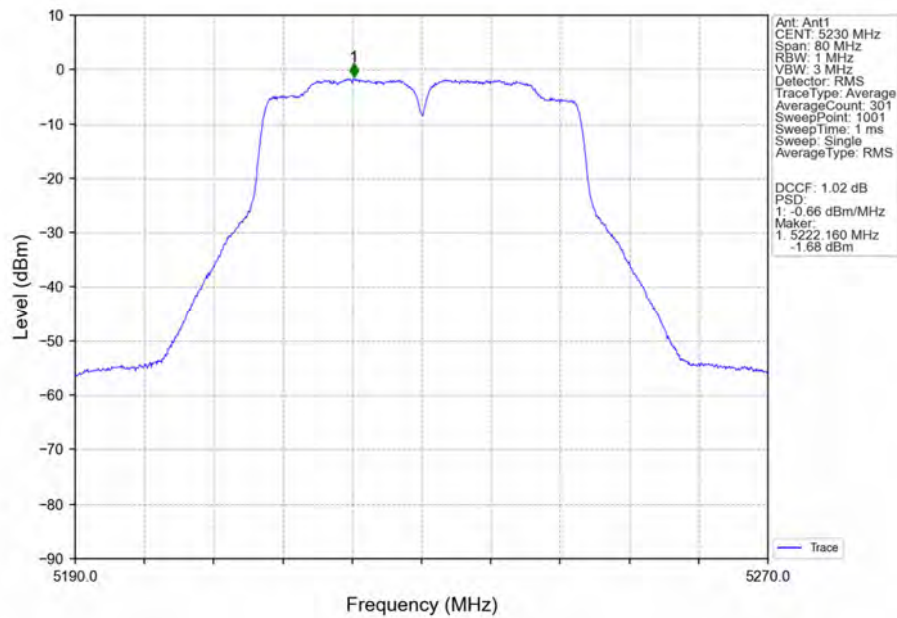
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



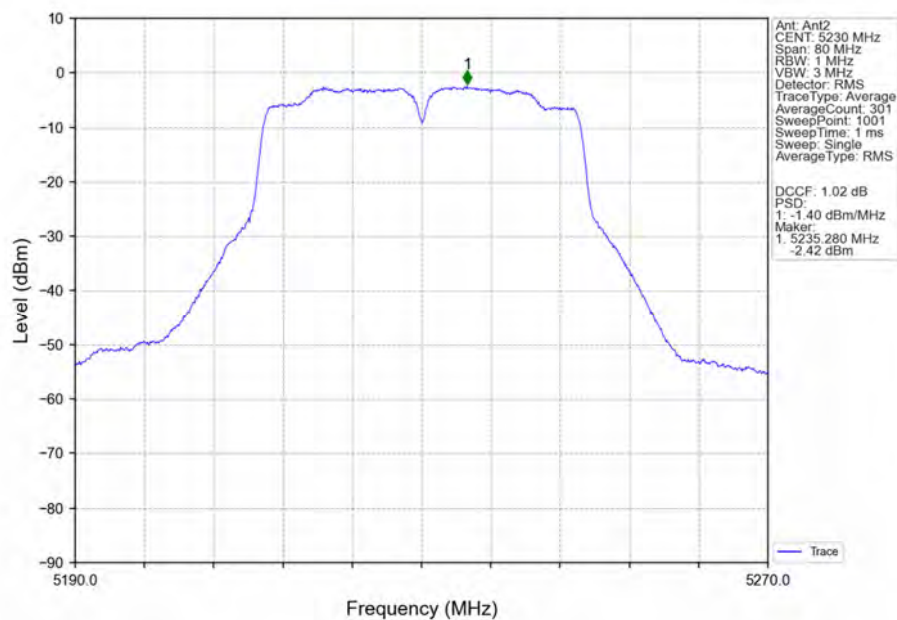
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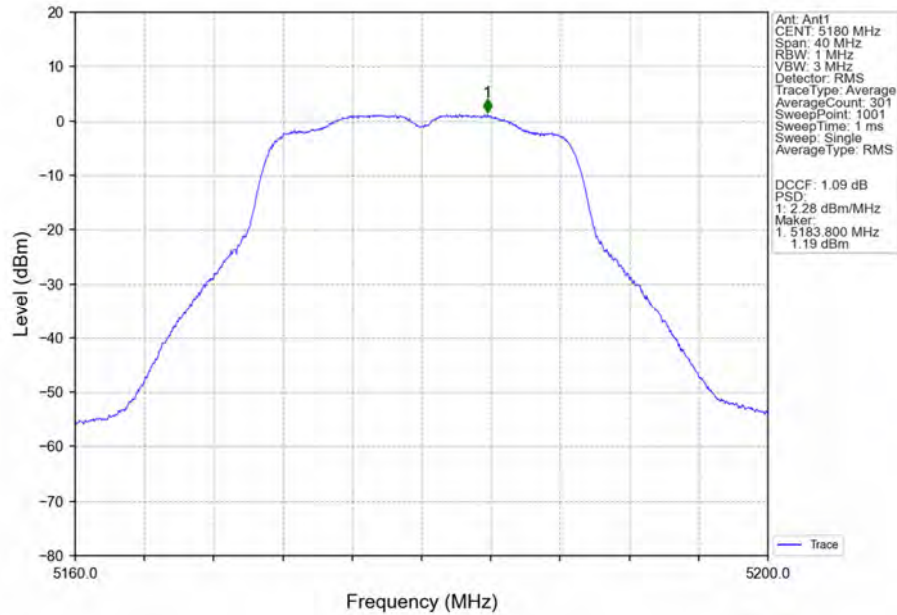
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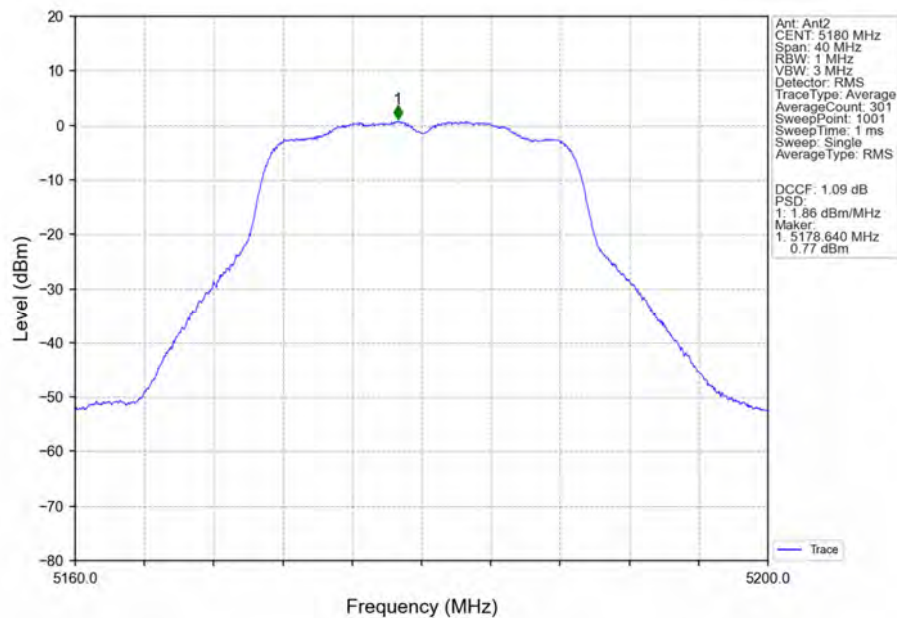
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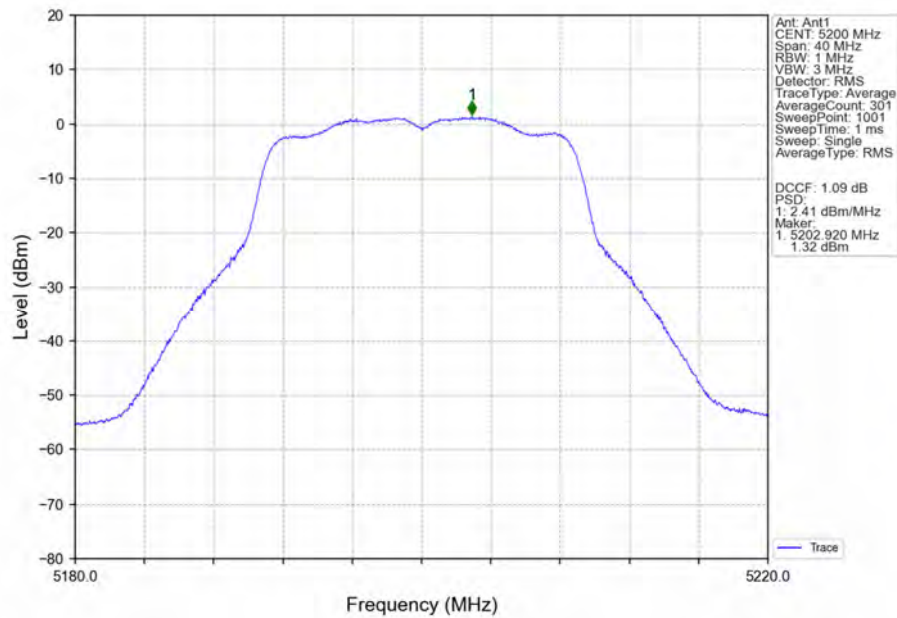
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



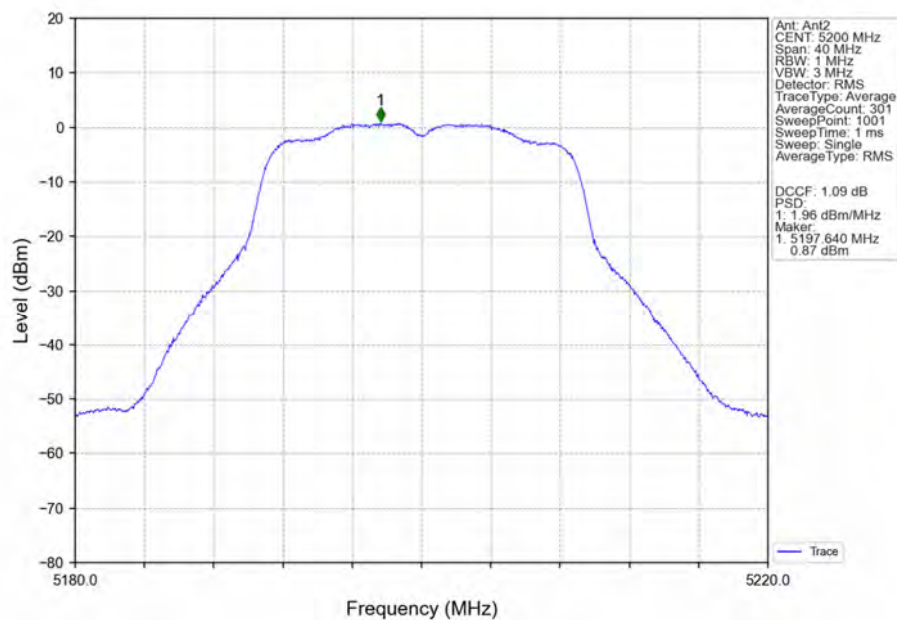
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



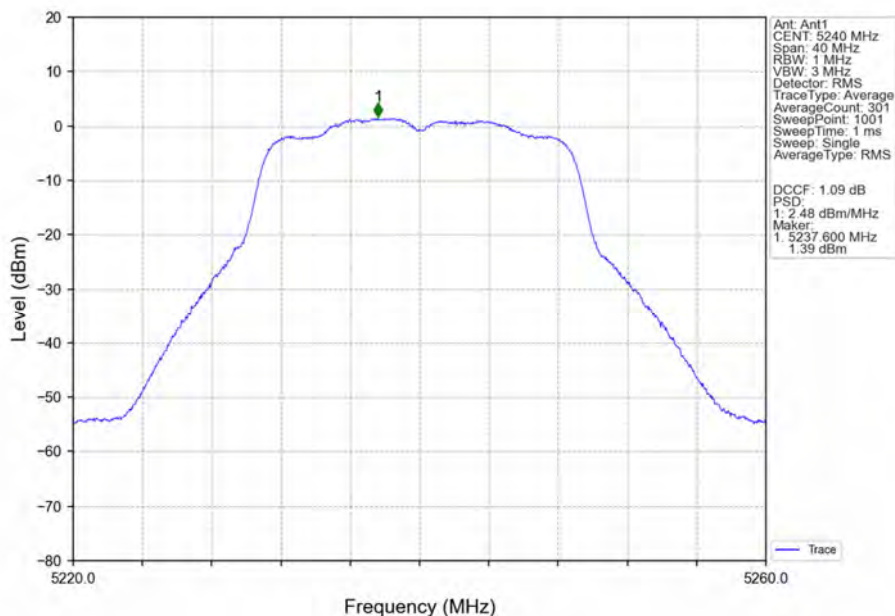
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV

