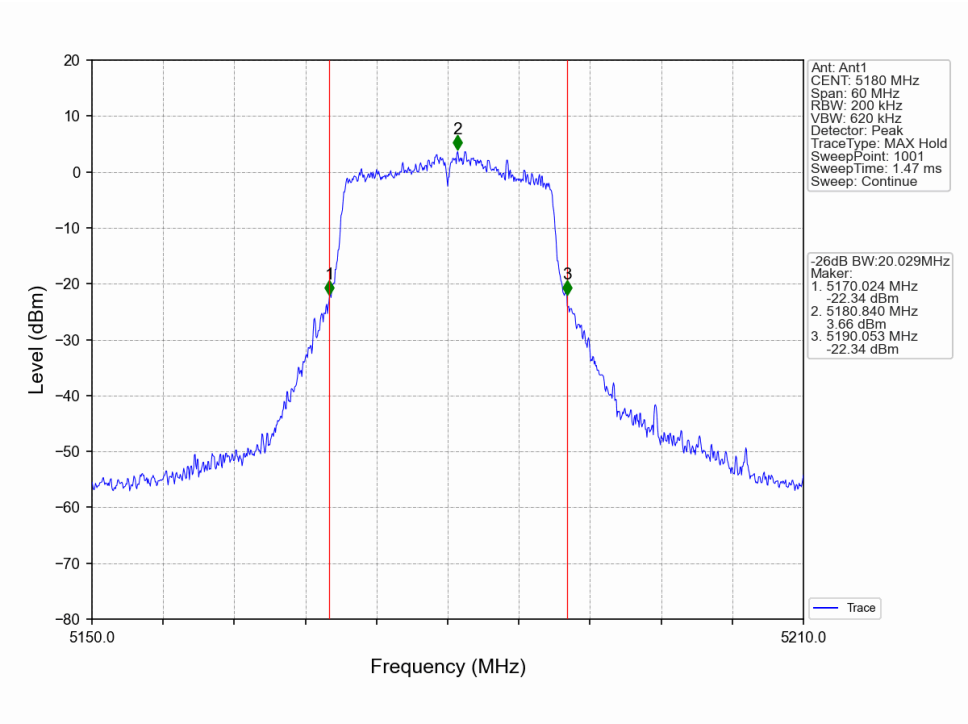
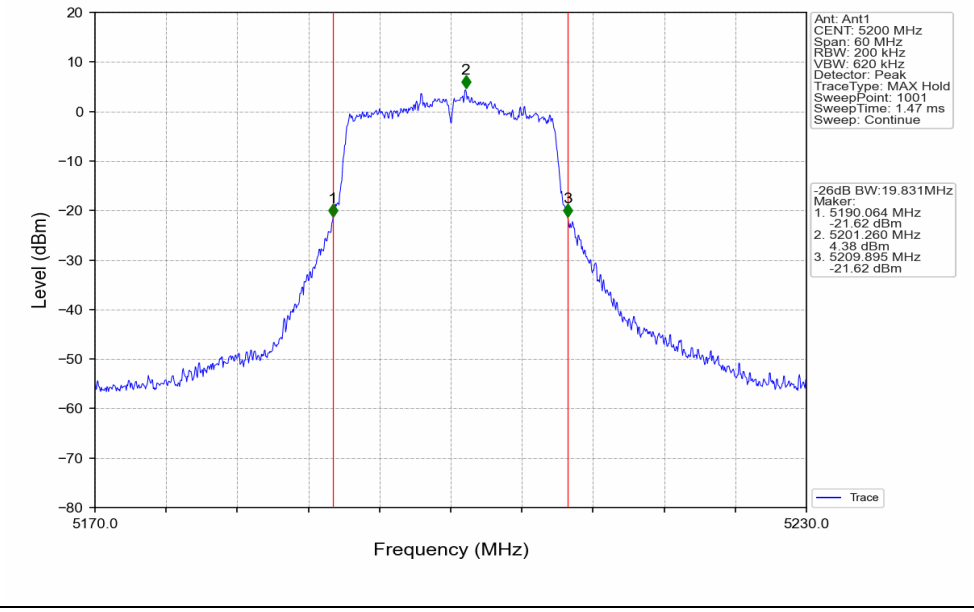
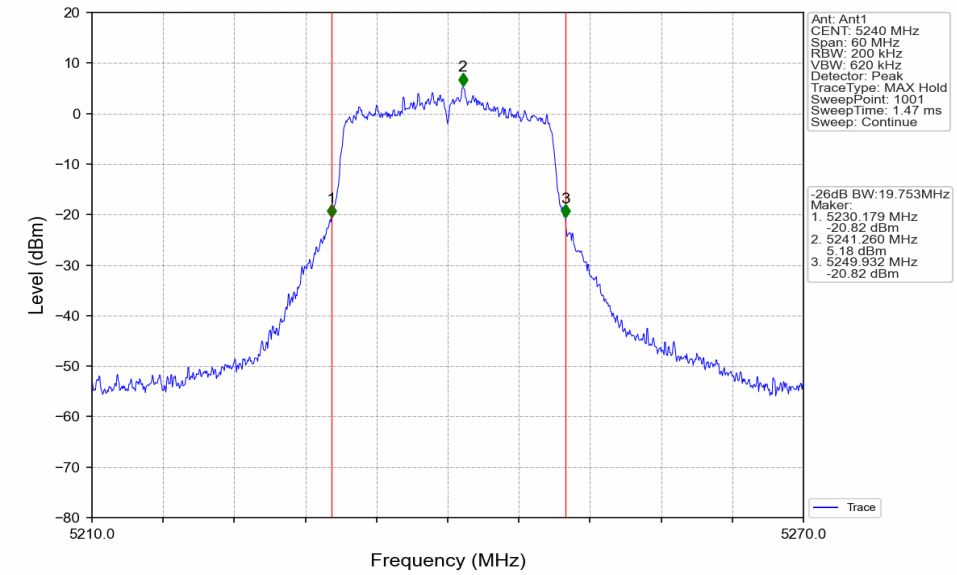
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



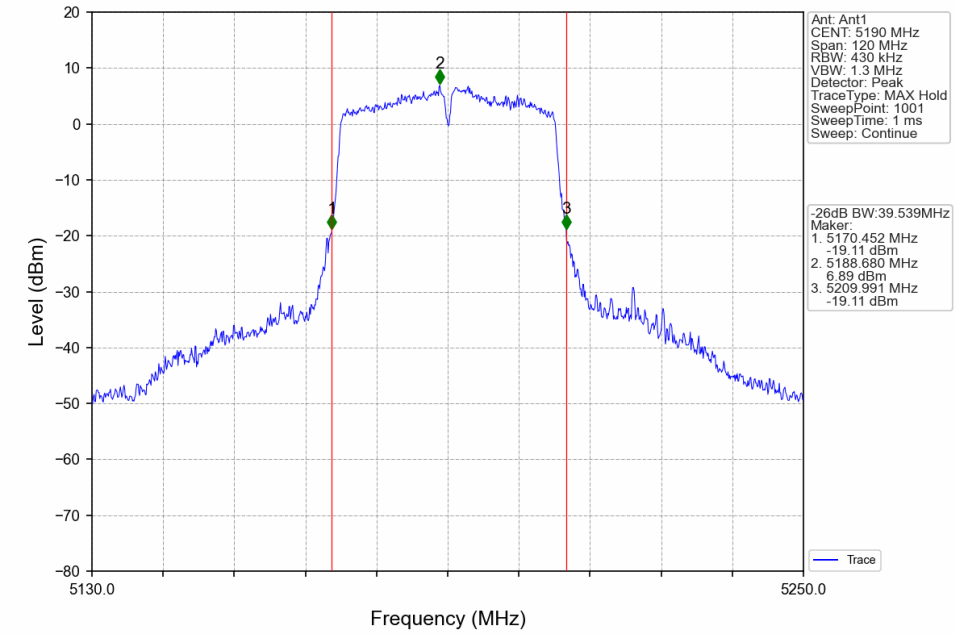
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



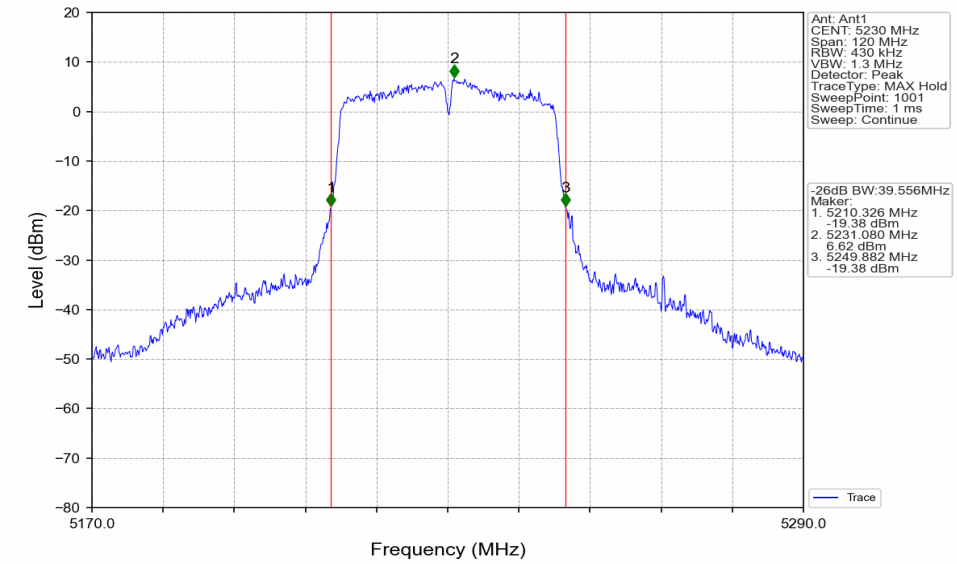
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



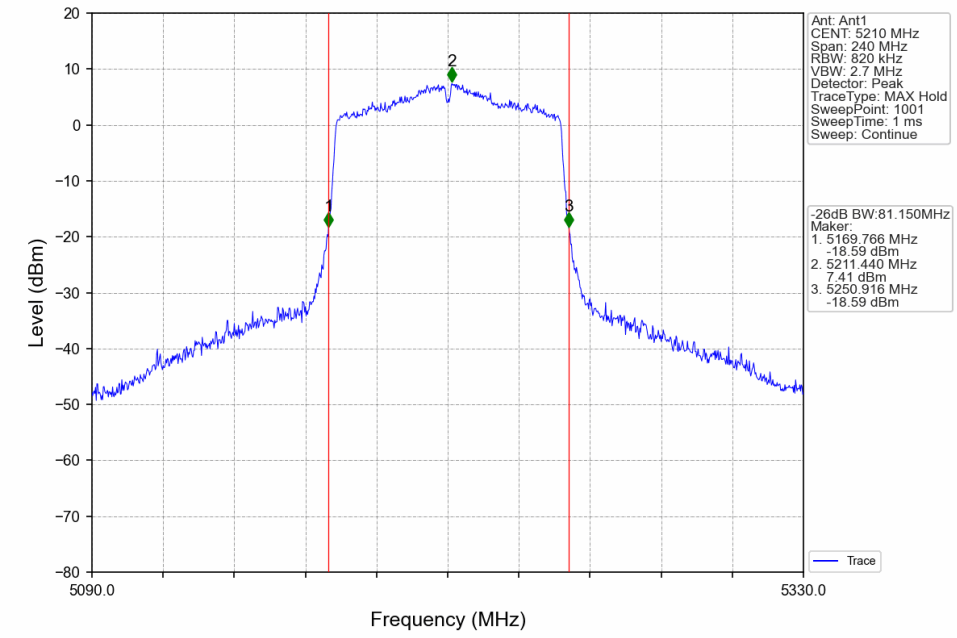
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



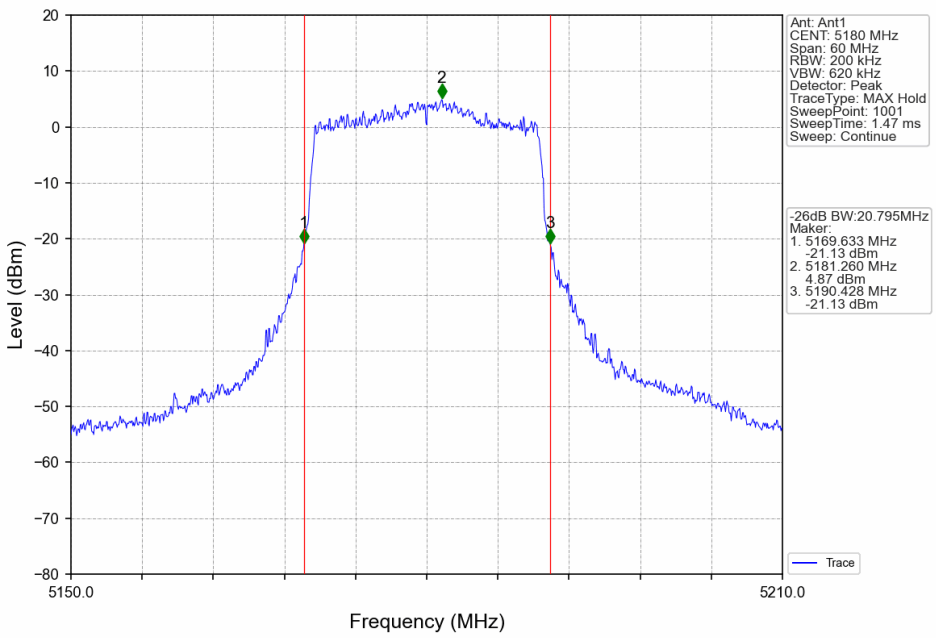
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



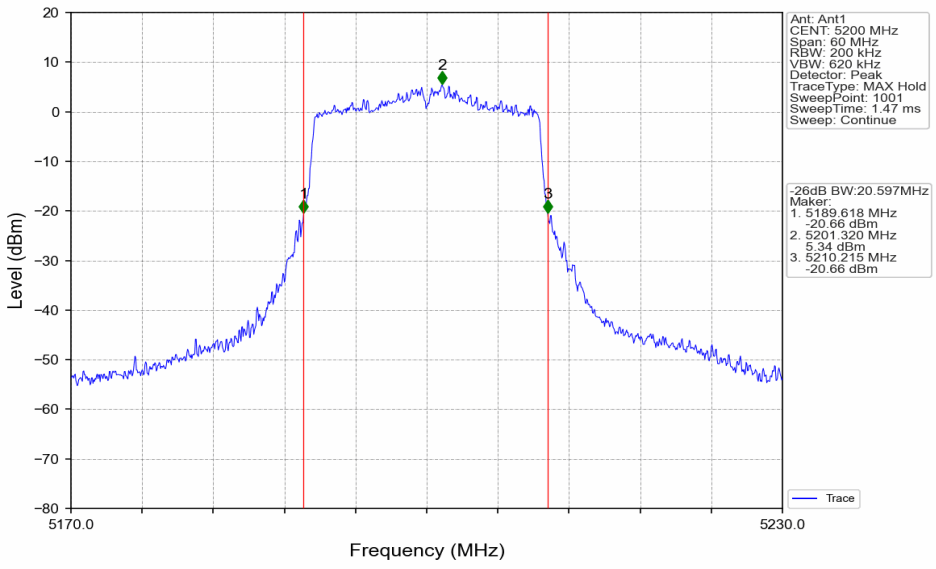
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



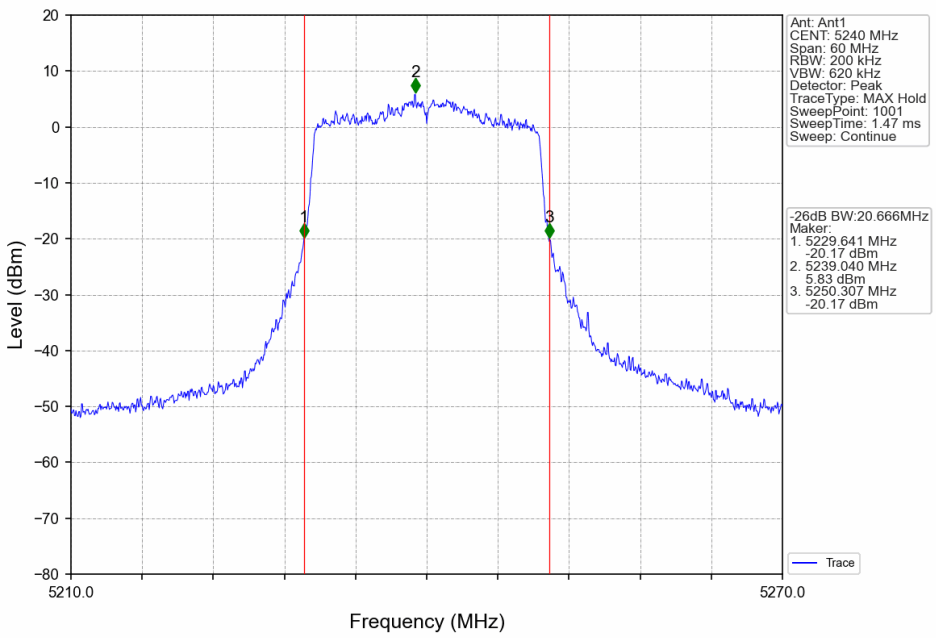
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



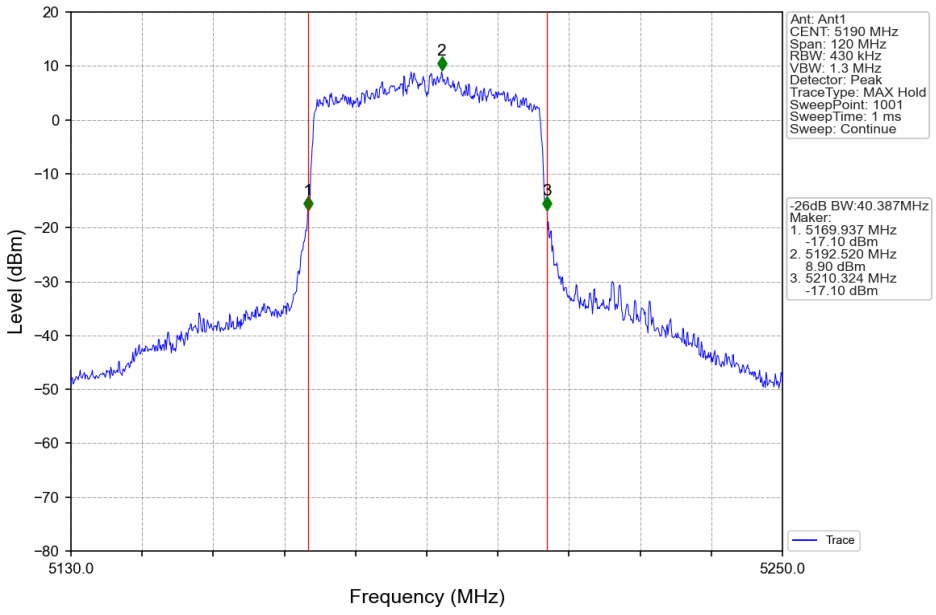
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



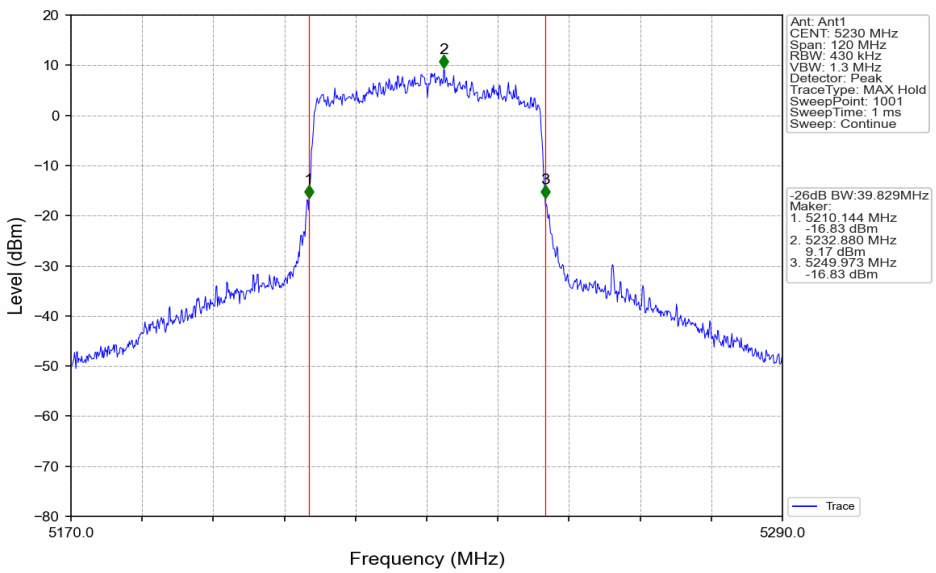
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



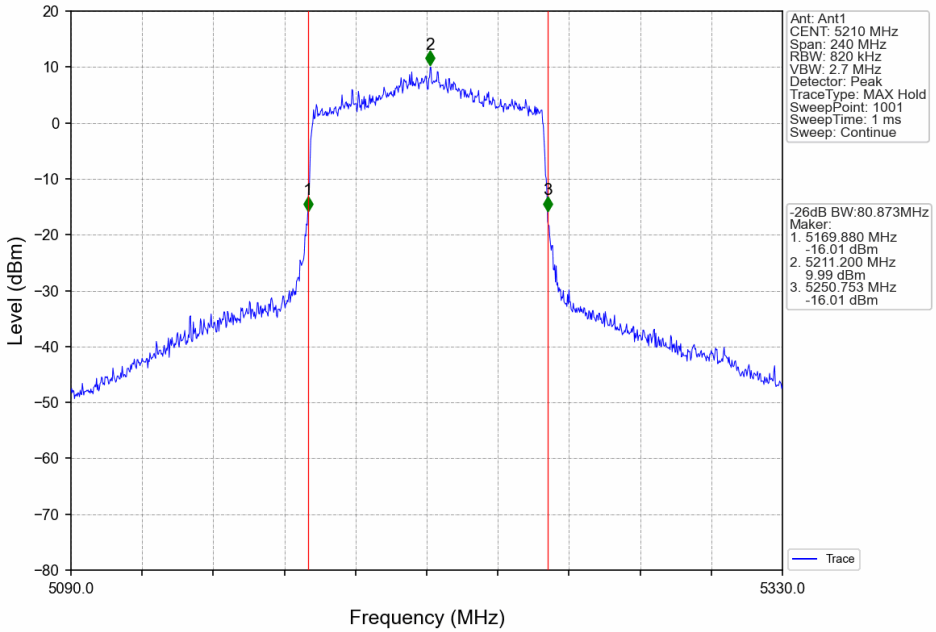
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



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 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	/	/	14.71	17.83	/	<=23.98	Pass
		5200	/	/	14.88	17.79	/	<=23.98	Pass
		5240	/	/	15.16	17.51	/	<=23.98	Pass
		5745	/	/	15.34	16.47	/	<=30	Pass
		5785	/	/	16.07	17.82	/	<=30	Pass
		5825	/	/	15.94	18.20	/	<=30	Pass
802.11n (HT20)	MIMO	5180	/	/	12.55	15.50	17.28	<=23.98	Pass
		5200	/	/	12.67	15.52	17.34	<=23.98	Pass
		5240	/	/	12.96	15.16	17.21	<=23.98	Pass
		5745	/	/	14.93	12.67	16.96	<=30	Pass
		5785	/	/	15.46	13.87	17.75	<=30	Pass
		5825	/	/	15.35	14.27	17.85	<=30	Pass
802.11n (HT40)	MIMO	5190	/	/	15.40	18.11	19.97	<=23.98	Pass
		5230	/	/	15.66	17.71	19.82	<=23.98	Pass
		5755	/	/	15.07	12.71	17.06	<=30	Pass
		5795	/	/	15.26	13.82	17.61	<=30	Pass
802.11ac (VHT20)	MIMO	5180	/	/	12.50	15.47	17.24	<=23.98	Pass
		5200	/	/	12.65	15.51	17.32	<=23.98	Pass
		5240	/	/	12.95	15.20	17.23	<=23.98	Pass
		5745	/	/	14.89	12.68	16.93	<=30	Pass
		5785	/	/	14.40	12.95	16.75	<=30	Pass
		5825	/	/	14.27	13.31	16.83	<=30	Pass
802.11ac (VHT40)	MIMO	5190	/	/	15.38	18.15	19.99	<=23.98	Pass
		5230	/	/	15.64	17.72	19.81	<=23.98	Pass
		5755	/	/	15.06	12.68	17.04	<=30	Pass
		5795	/	/	15.25	13.82	17.60	<=30	Pass
802.11ac (VHT80)	MIMO	5210	/	/	15.63	17.59	19.73	<=23.98	Pass
		5775	/	/	15.18	13.04	17.25	<=30	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	12.82	15.57	17.42	<=23.98	Pass
		5200	RU242	Left	12.97	15.58	17.48	<=23.98	Pass

		5240	RU242	Left	13.19	15.20	17.32	<=23.98	Pass
		5745	RU242	Left	15.30	12.81	17.24	<=30	Pass
		5785	RU242	Left	14.83	13.09	17.06	<=30	Pass
		5825	RU242	Left	14.64	13.40	17.07	<=30	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	15.19	17.64	19.60	<=23.98	Pass
		5230	RU484	Left	15.46	17.30	19.49	<=23.98	Pass
		5755	RU484	Left	14.82	12.28	16.74	<=30	Pass
		5795	RU484	Left	15.03	13.36	17.29	<=30	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	15.52	17.49	19.63	<=23.98	Pass
		5775	RU996	Left	15.06	12.97	17.15	<=30	Pass

Note1: Antenna Gain (U-NII-1): ANT0: 4dBi; ANT1: 1dBi
directional gain (dBi) for U-NII-1 = gain of individual transmit antennas (dBi) + array gain (dB)=4dBi
Array Gain = 0 dB for NANT $\leqslant$ 4
Antenna Gain (U-NII-3): ANT0: 5dBi; ANT1: 3.5dBi
directional gain (dBi) for U-NII-3 = gain of individual transmit antennas (dBi) + array gain (dB)=5dBi
Array Gain = 0 dB for NANT $\leqslant$ 4

4. Maximum Power Spectral Density

4.1 PSD

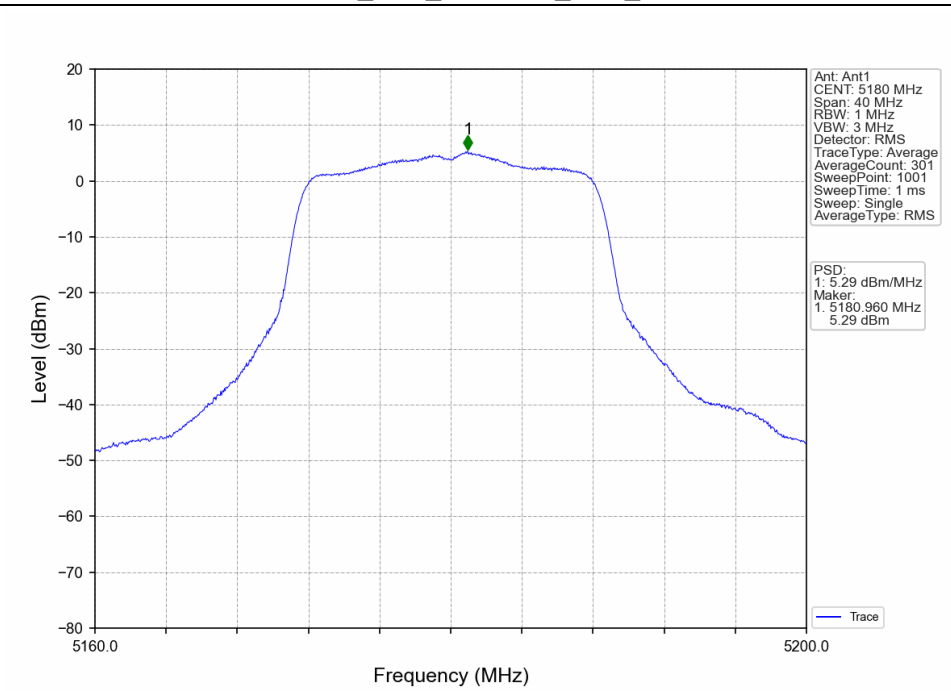
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	/	/	5.29	7.94	/	<=11	Pass
		5200	/	/	5.24	7.86	/	<=11	Pass
		5240	/	/	5.74	7.62	/	<=11	Pass
802.11n (HT20)	MIMO	5180	/	/	2.76	5.36	7.18	<=9.99	Pass
		5200	/	/	2.77	5.86	7.38	<=9.99	Pass
		5240	/	/	3.01	5.09	7.10	<=9.99	Pass
802.11n (HT40)	MIMO	5190	/	/	2.79	5.22	7.12	<=9.99	Pass
		5230	/	/	2.91	4.79	6.96	<=9.99	Pass
802.11ac (VHT20)	MIMO	5180	/	/	2.68	5.41	7.17	<=9.99	Pass
		5200	/	/	2.80	5.44	7.18	<=9.99	Pass
		5240	/	/	3.09	5.06	7.08	<=9.99	Pass
802.11ac (VHT40)	MIMO	5190	/	/	2.75	5.18	7.09	<=9.99	Pass
		5230	/	/	2.86	4.77	6.81	<=9.99	Pass
802.11ac (VHT80)	MIMO	5210	/	/	0.59	2.20	4.36	<=9.99	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	2.96	5.24	7.22	<=9.99	Pass
		5200	RU242	Left	3.14	5.33	7.24	<=9.99	Pass
		5240	RU242	Left	3.08	5.00	7.05	<=9.99	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	2.55	4.60	6.64	<=9.99	Pass
		5230	RU484	Left	2.58	4.28	6.46	<=9.99	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	0.37	2.06	4.16	<=9.99	Pass

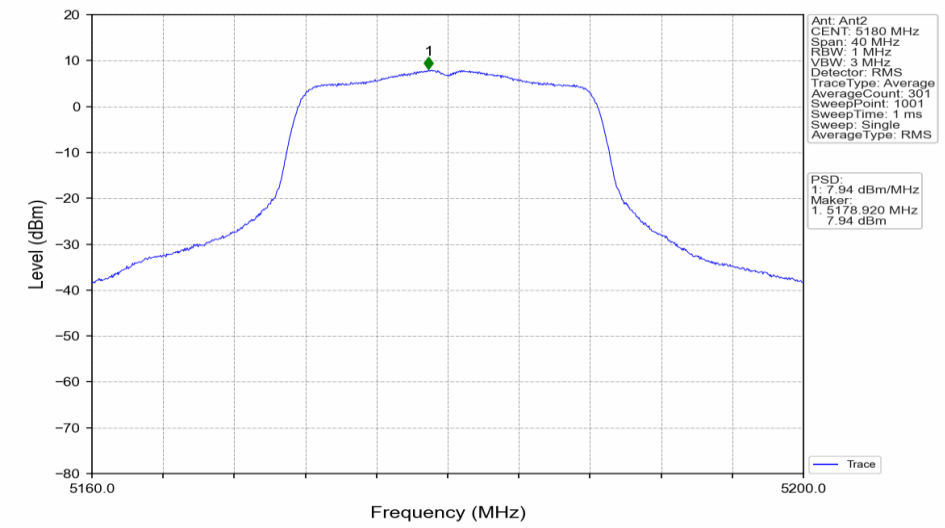
Note1: Antenna Gain (U-NII-1): ANT0: 4dBi; ANT1: 1dBi
directional gain (dBi) for U-NII-1 = gain of individual transmit antennas (dBi) + array gain (dB)=7.01dBi
Array gain = 10 log(N_{ANT}), where N_{ANT} is the number of transmit antennas

4.1.2 Test Graph

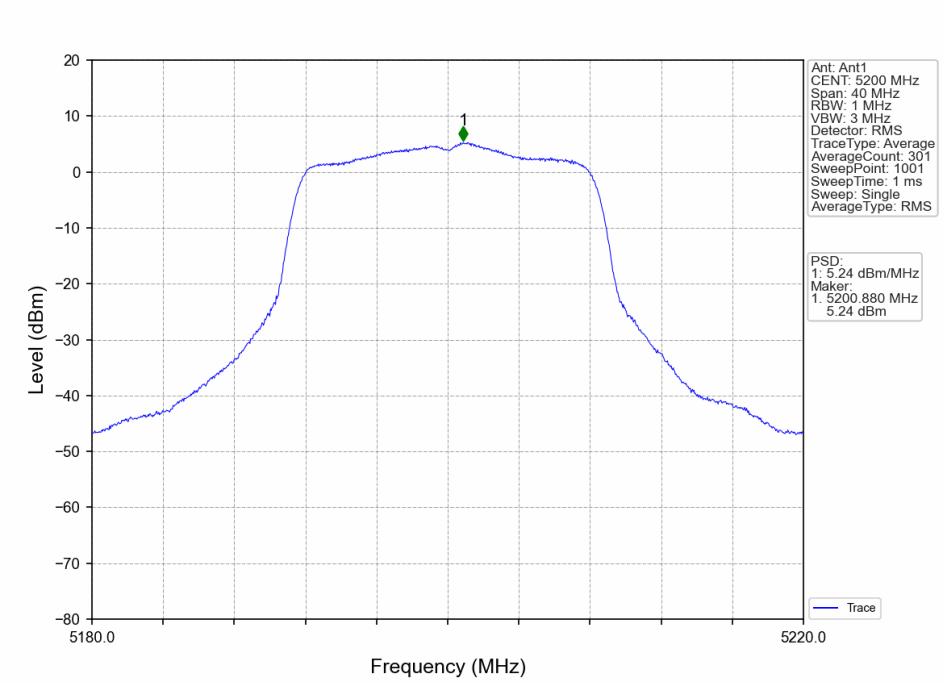
802.11a_LCH_5180MHz_Ant1_NTNV



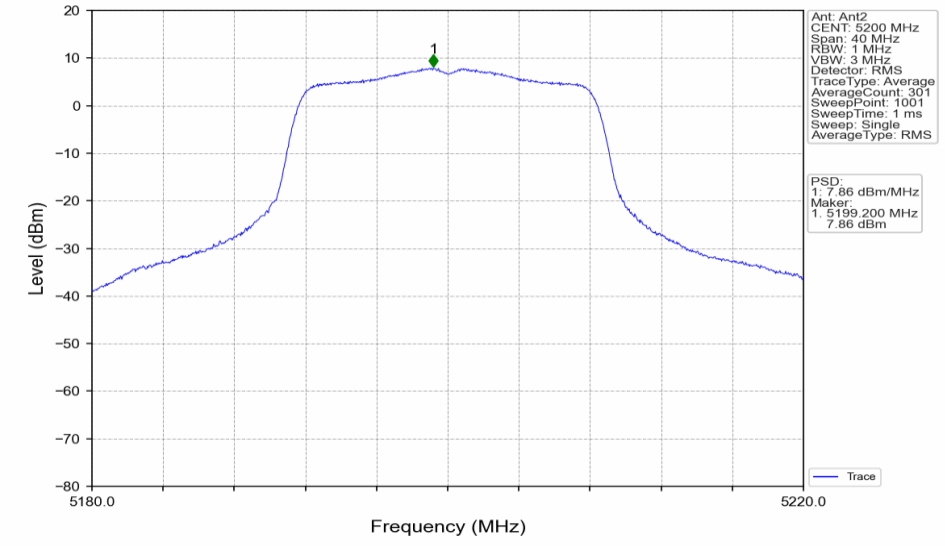
802.11a_LCH_5180MHz_Ant2_NTNV



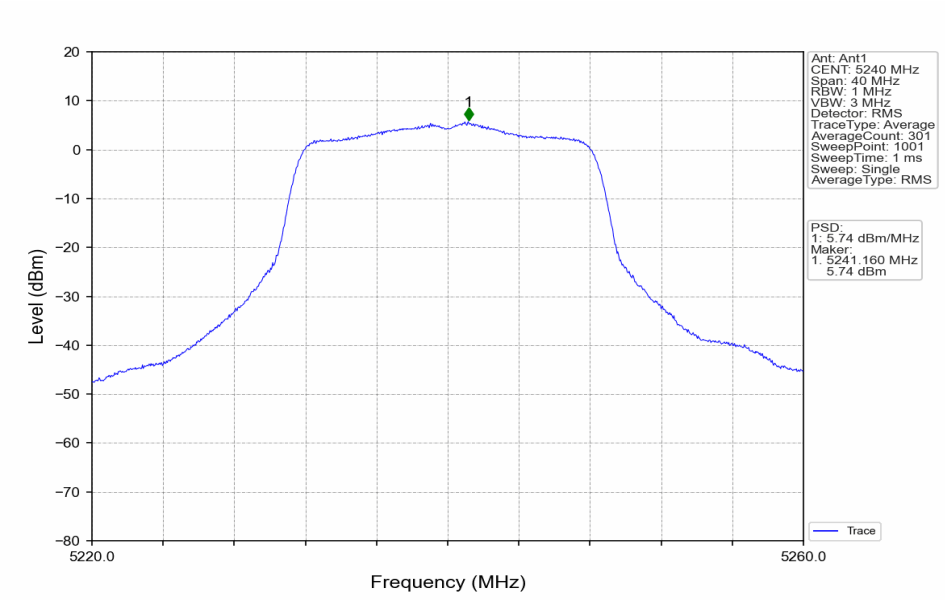
802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV



802.11a_HCH_5240MHz_Ant1_NTNV



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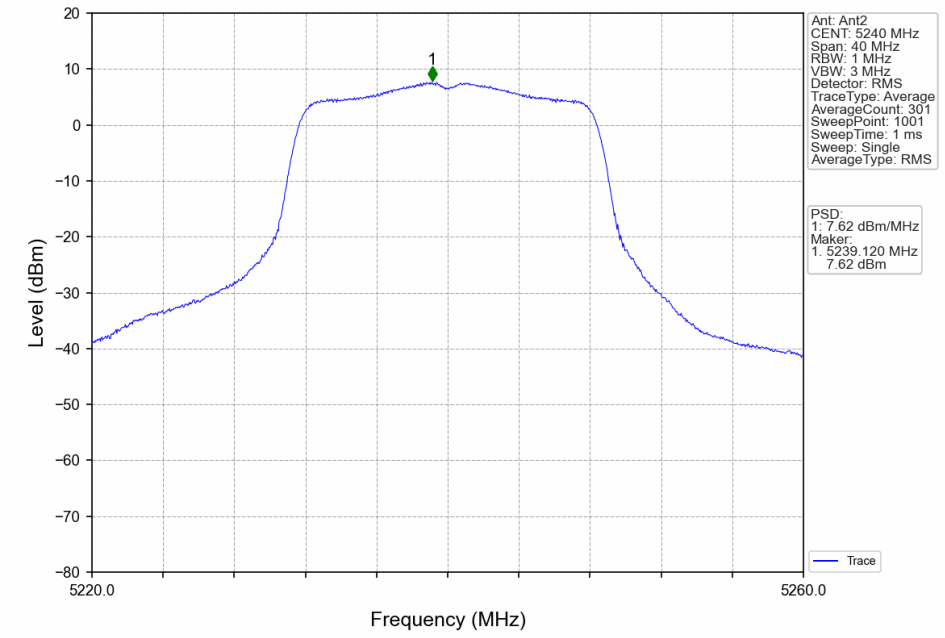
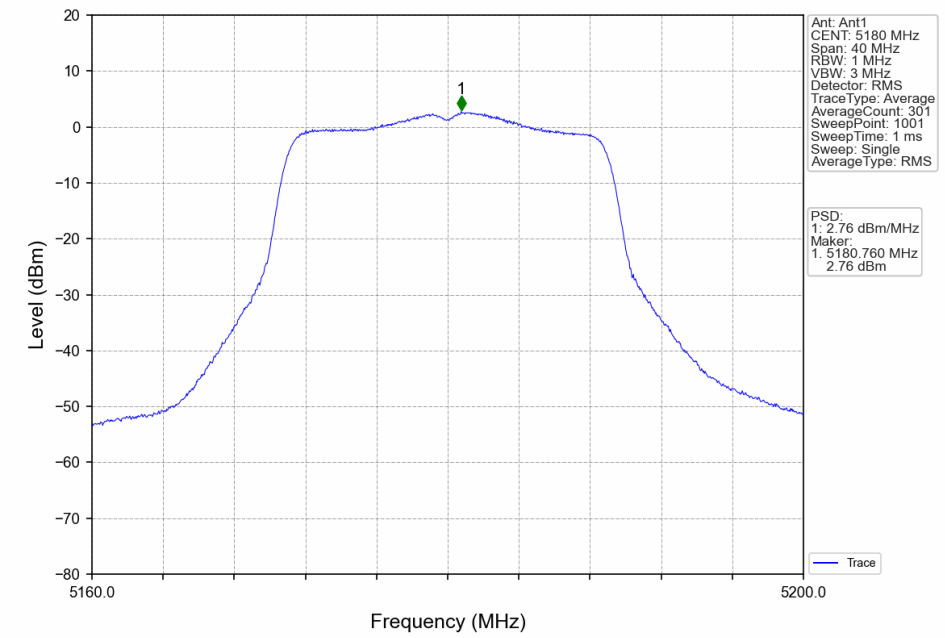
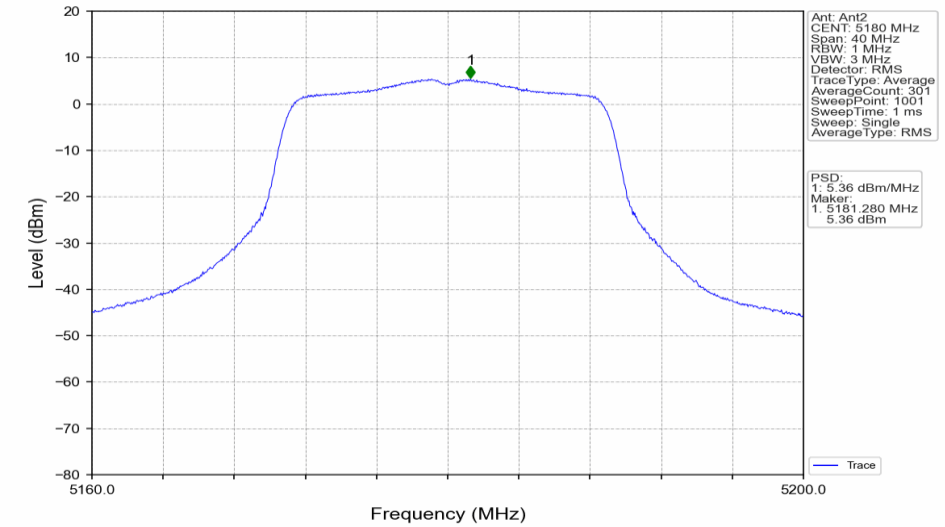


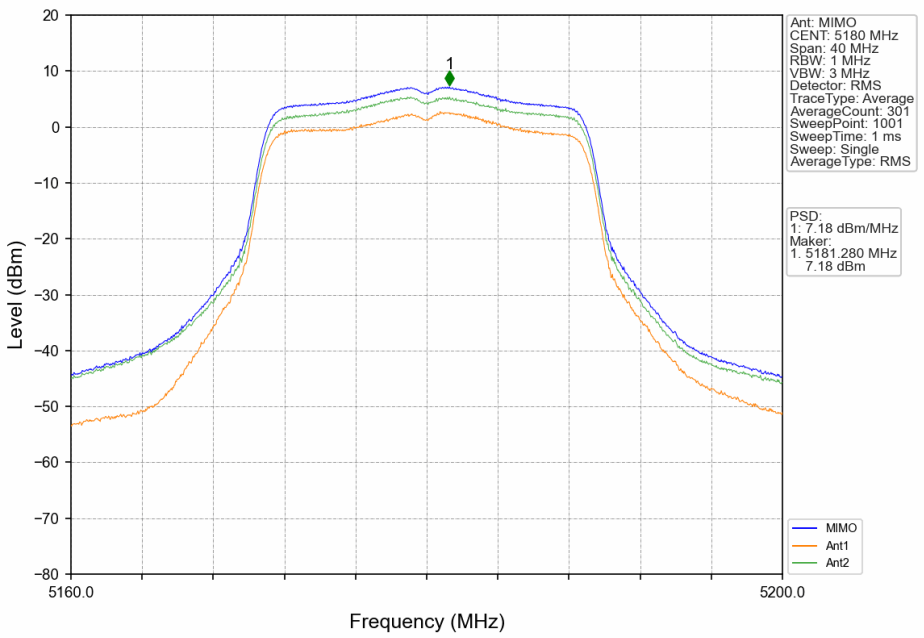
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



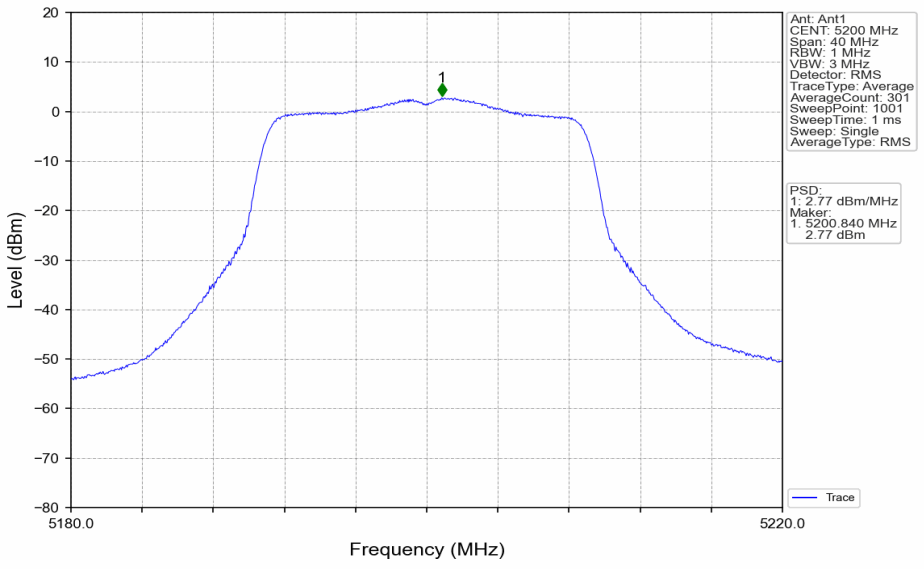
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



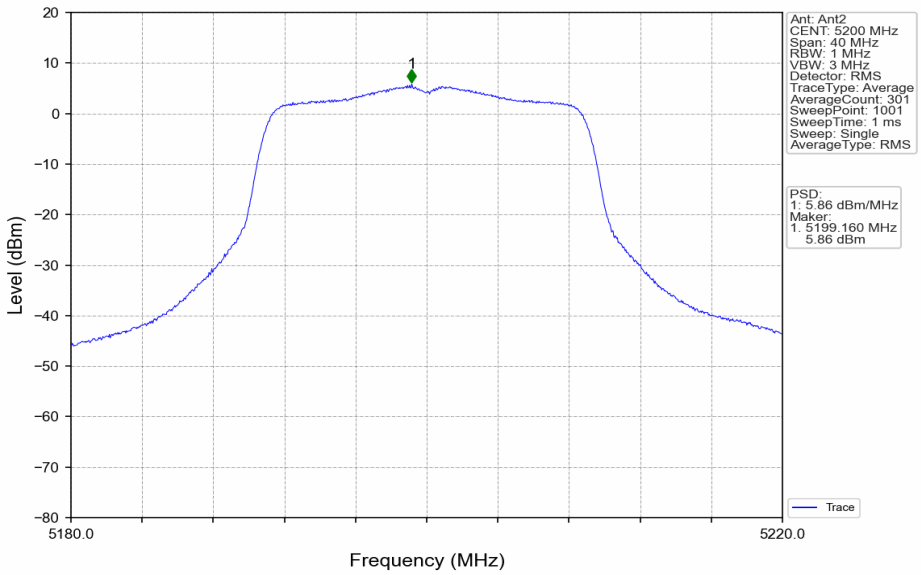
802.11n(HT20)_LCH_5180MHz_MIMO_NTNV



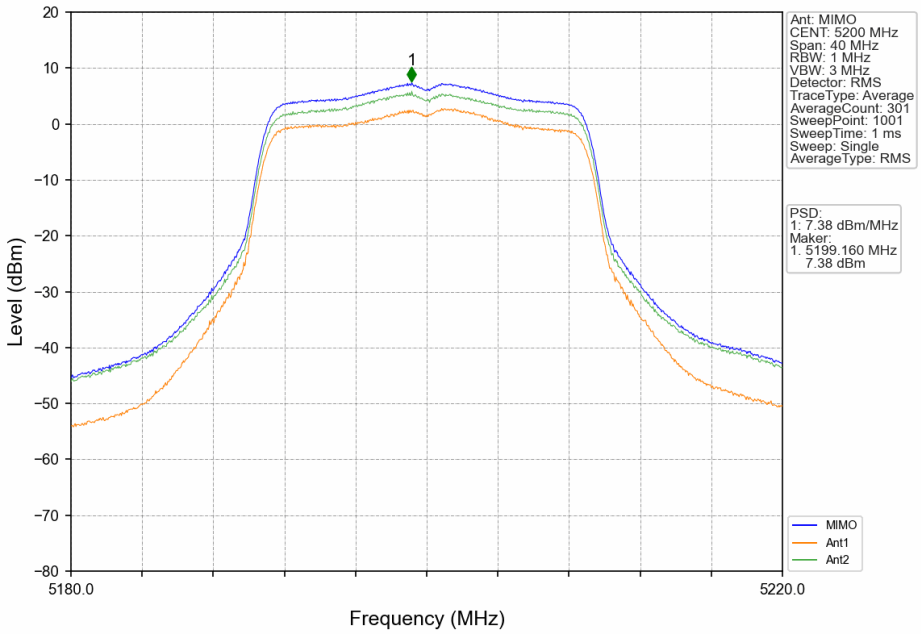
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



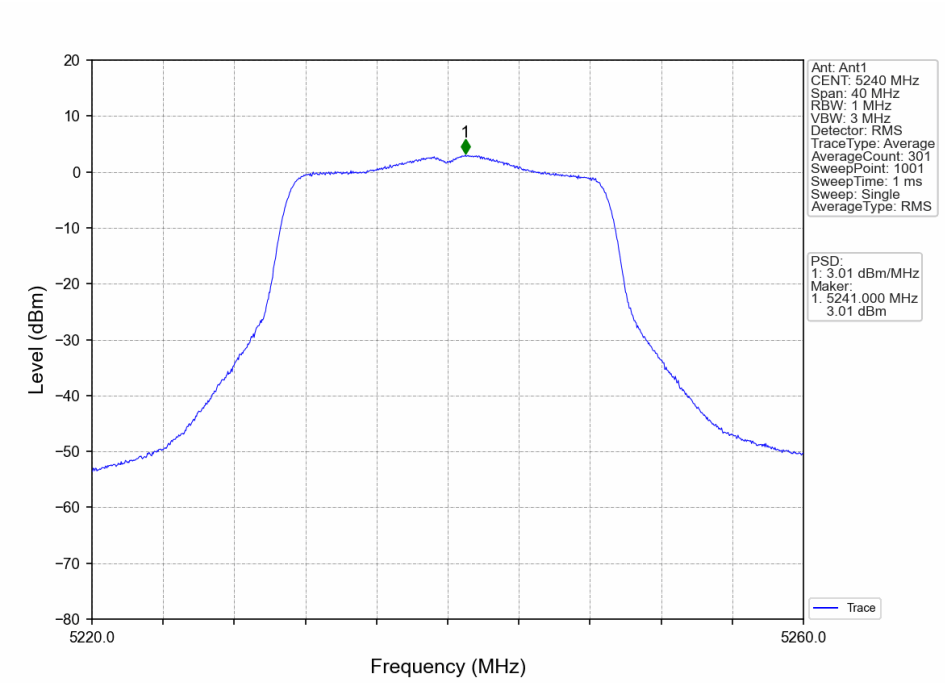
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



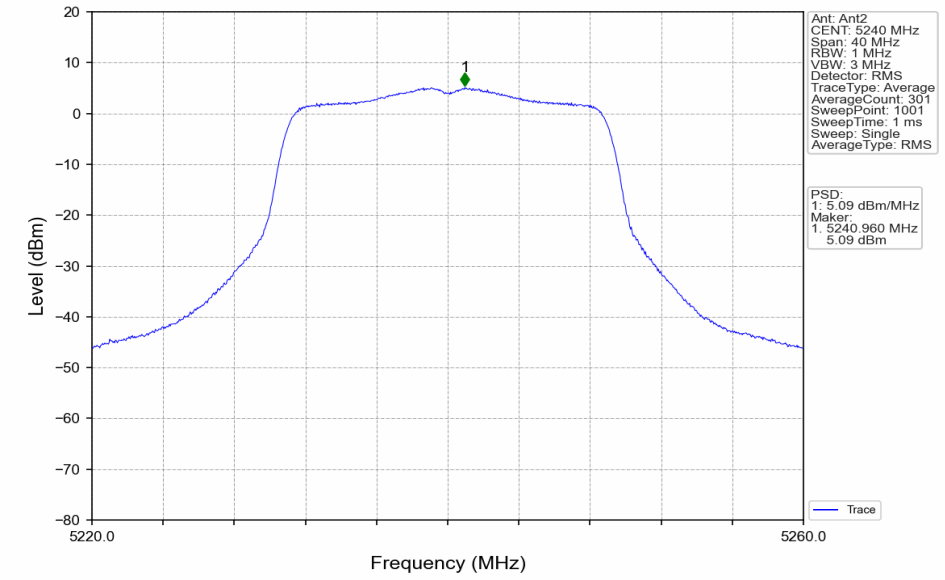
802.11n(HT20)_MCH_5200MHz_MIMO_NTNV



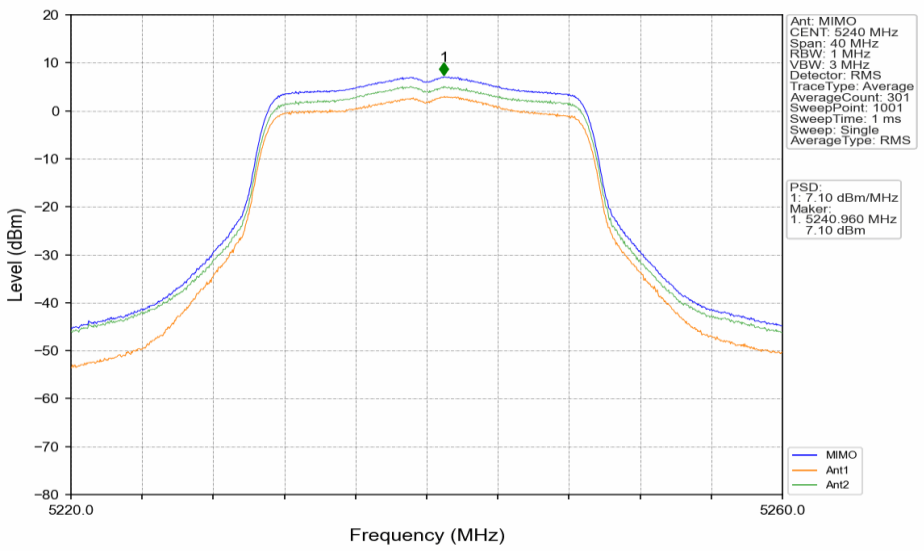
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



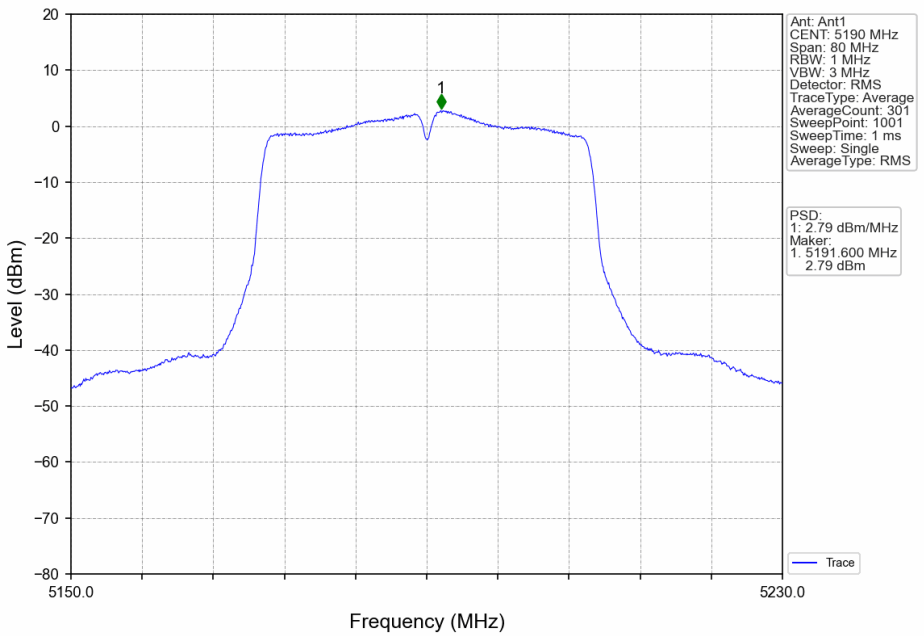
802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



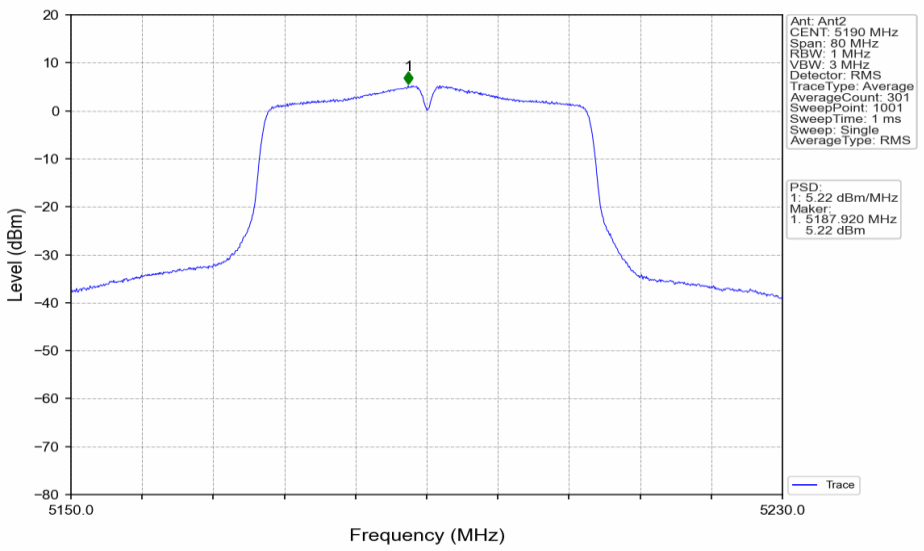
802.11n(HT20)_HCH_5240MHz_MIMO_NTNV



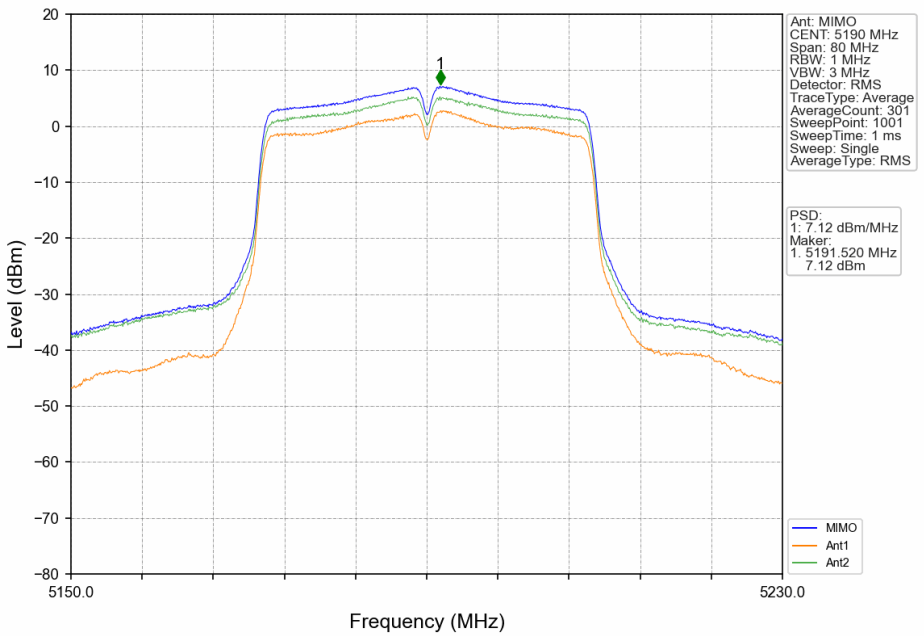
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



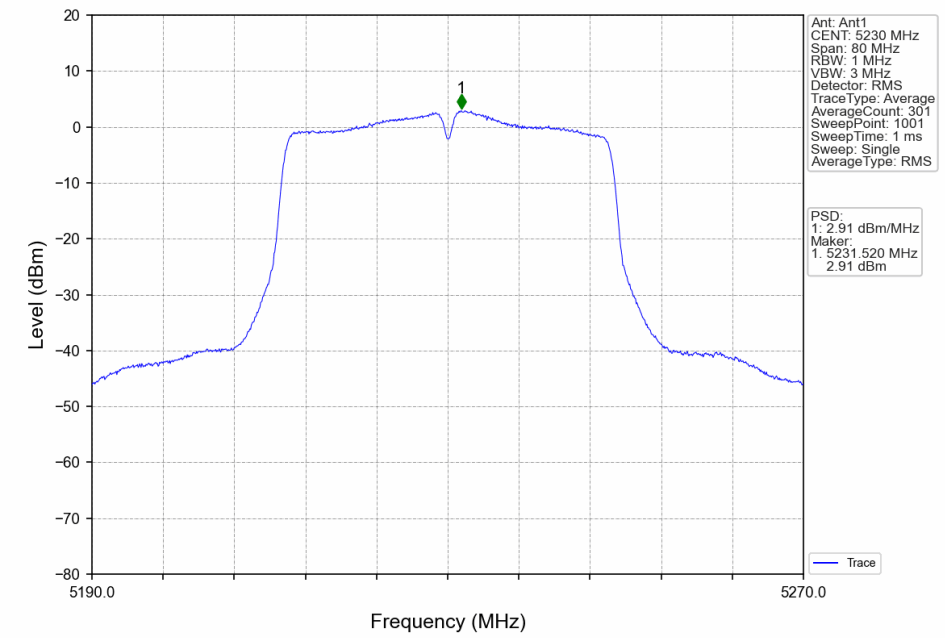
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



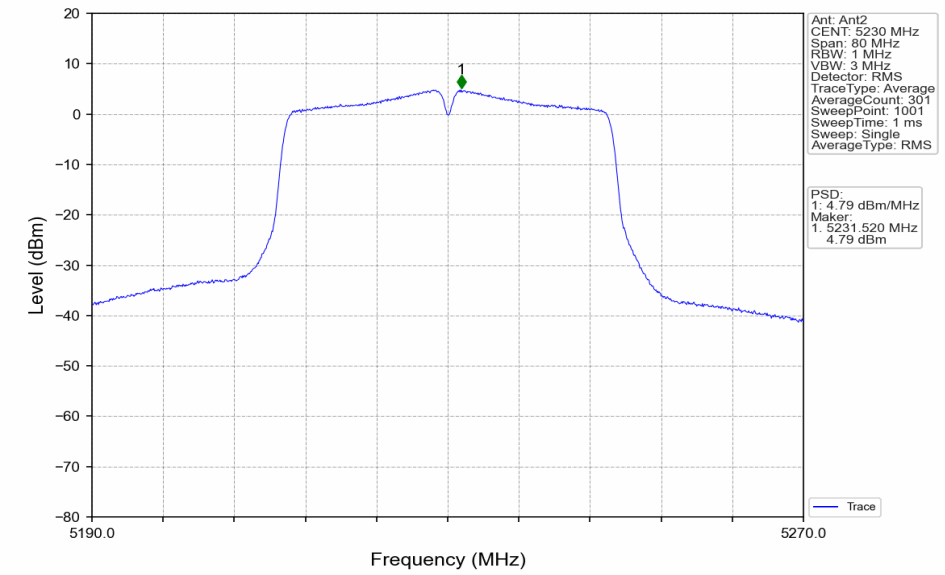
802.11n(HT40)_LCH_5190MHz_MIMO_NTNV



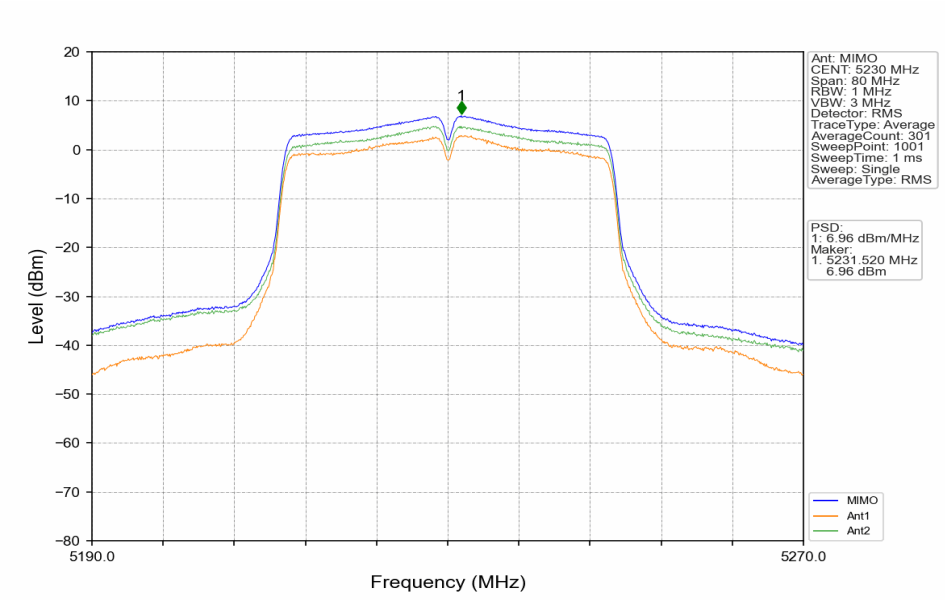
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



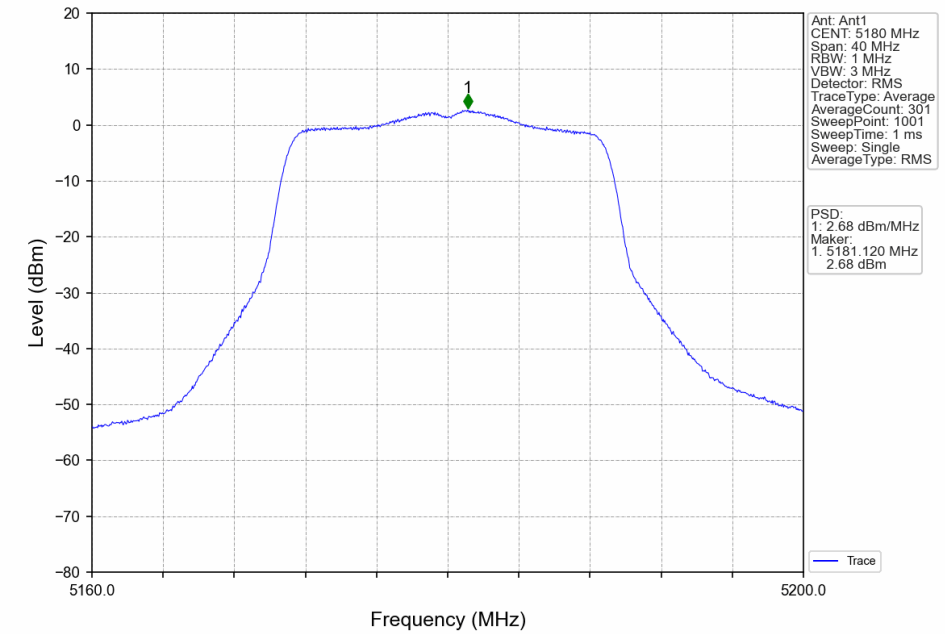
802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



802.11n(HT40)_HCH_5230MHz_MIMO_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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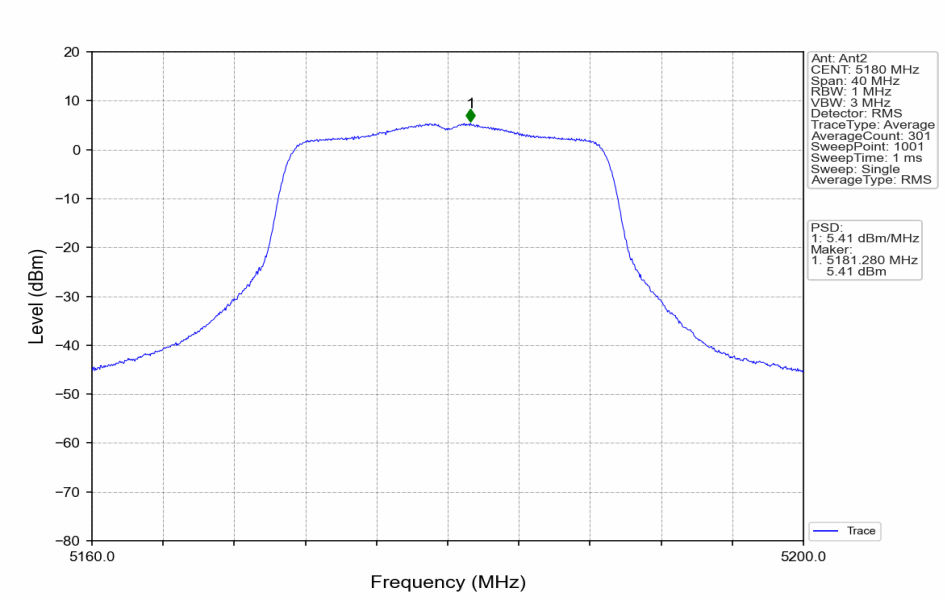
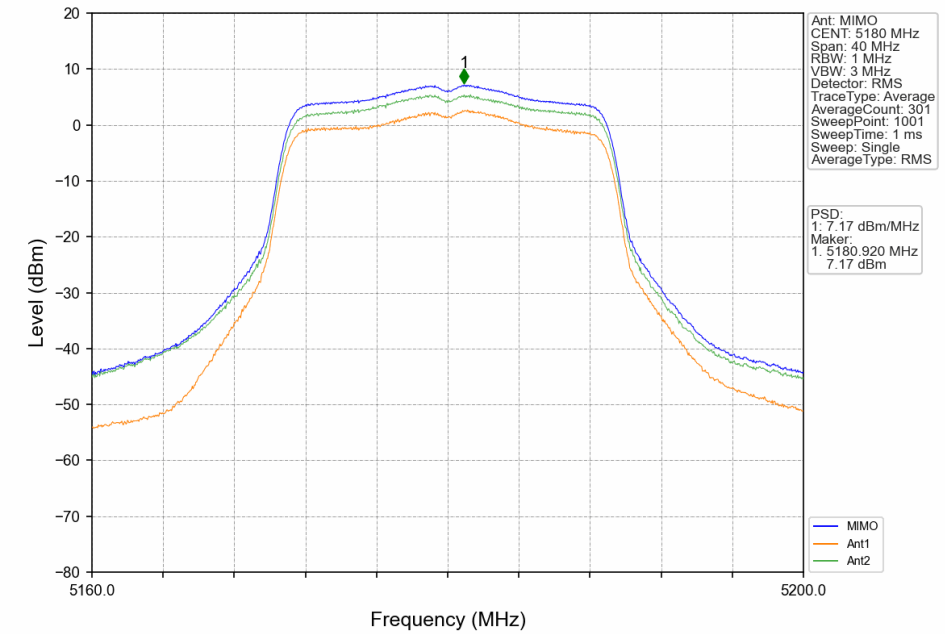
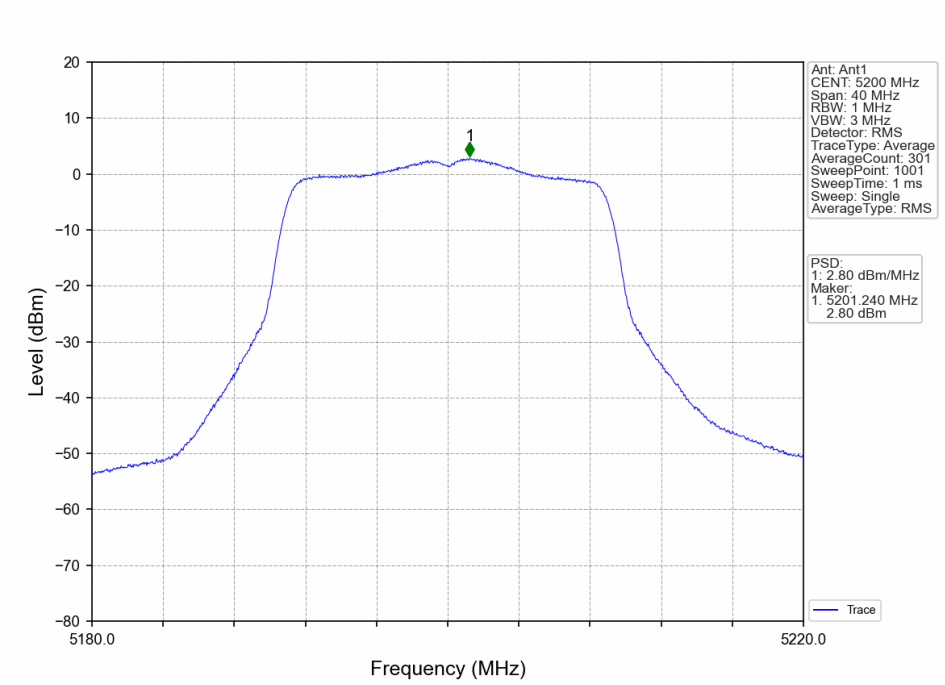
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



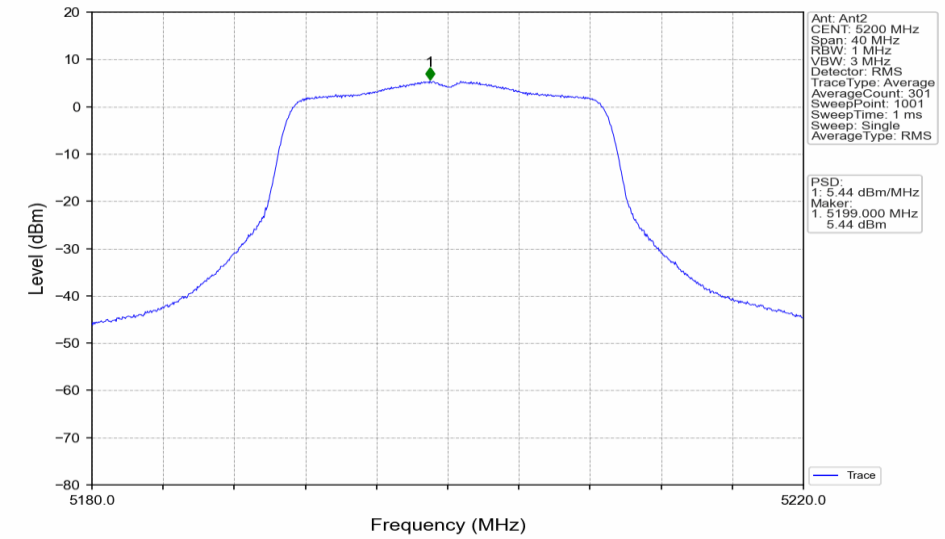
802.11ac(VHT20)_LCH_5180MHz_MIMO_NTNV



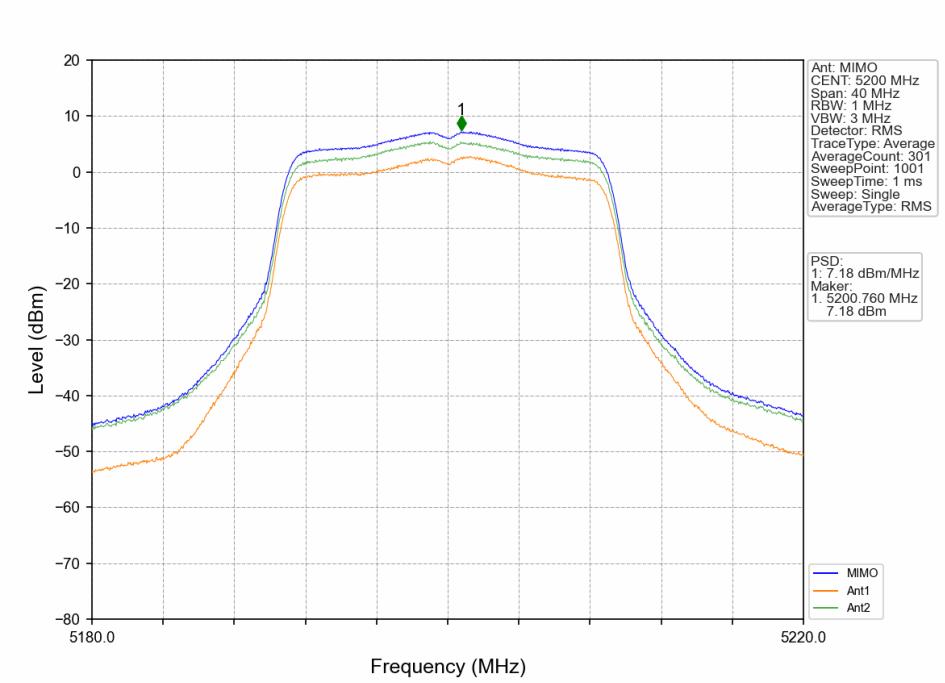
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



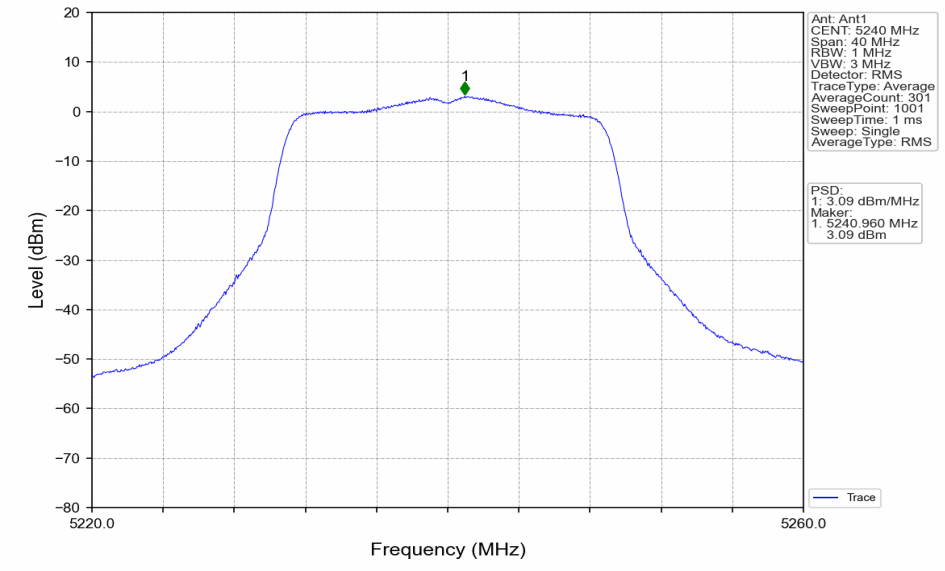
802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



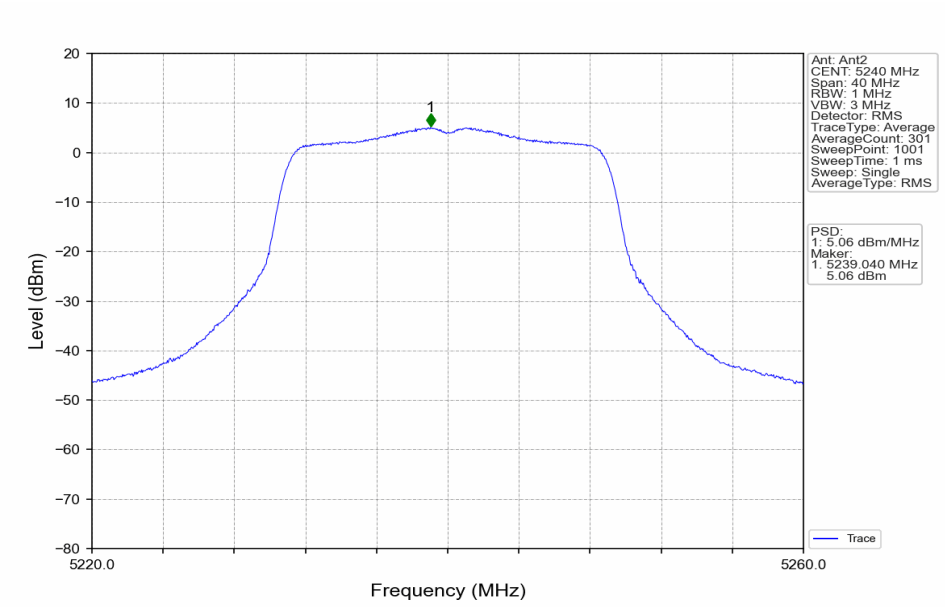
802.11ac(VHT20)_MCH_5200MHz_MIMO_NTNV



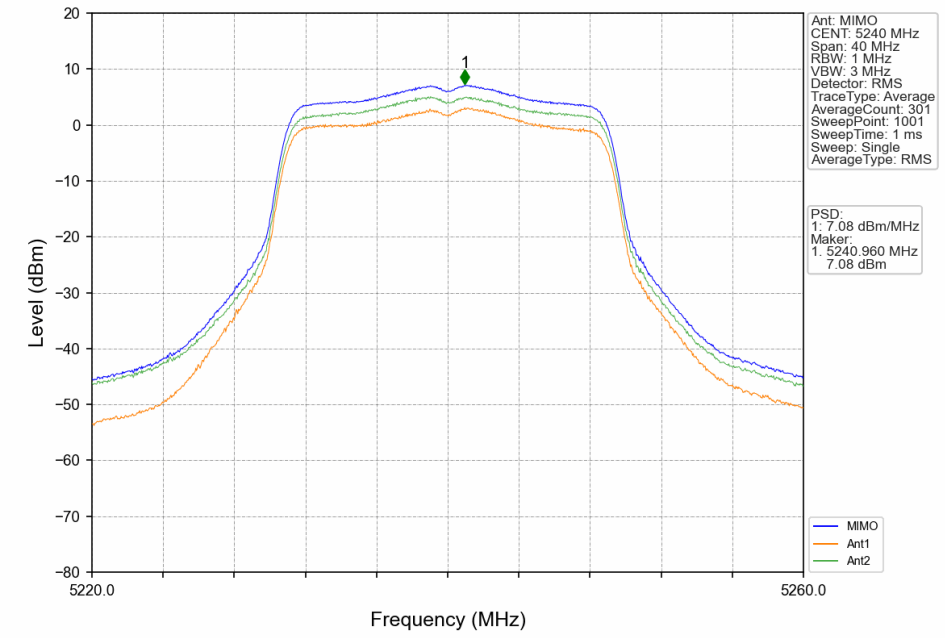
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



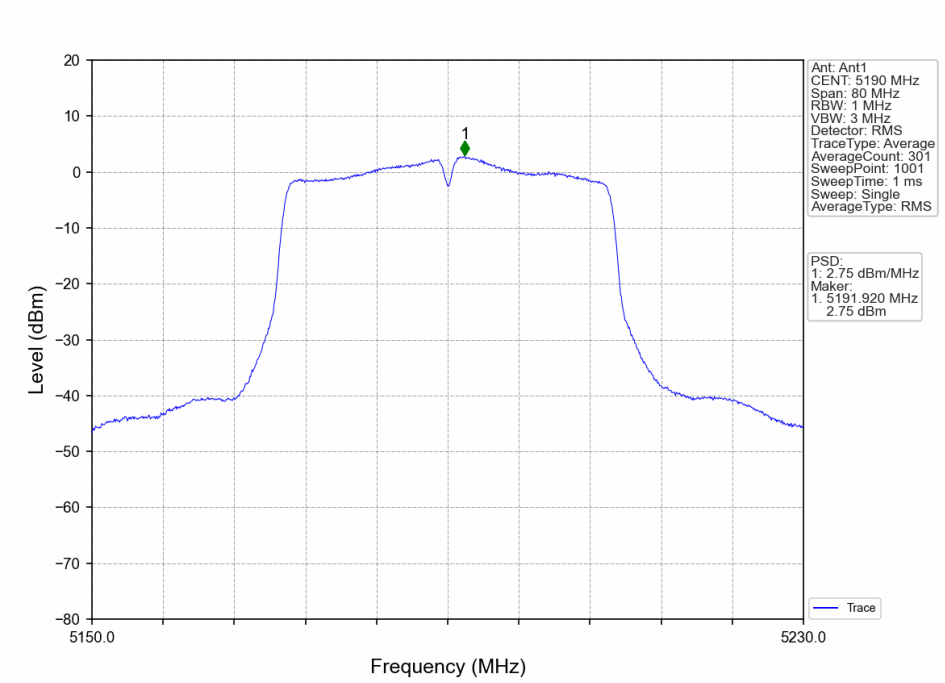
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



802.11ac(VHT20)_HCH_5240MHz_MIMO_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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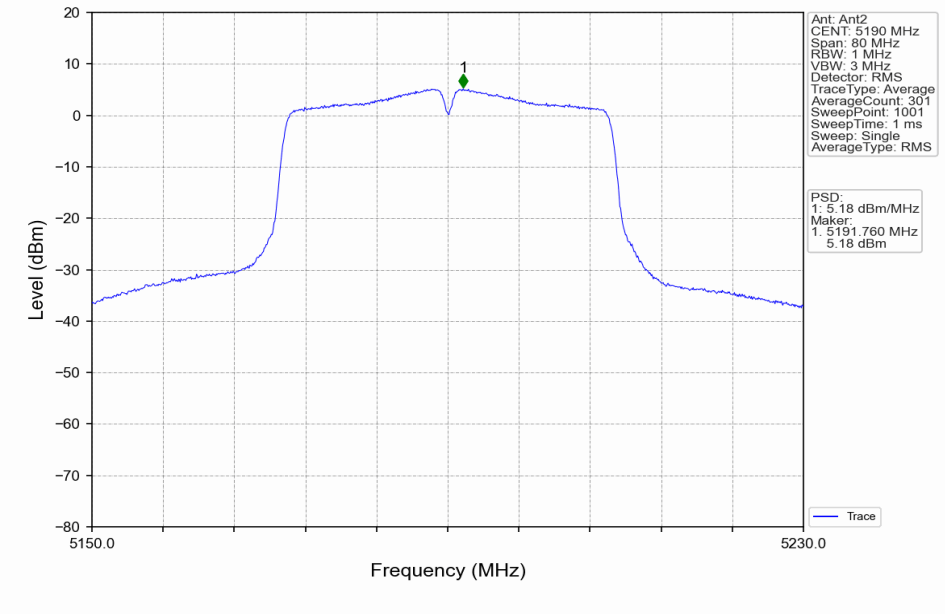
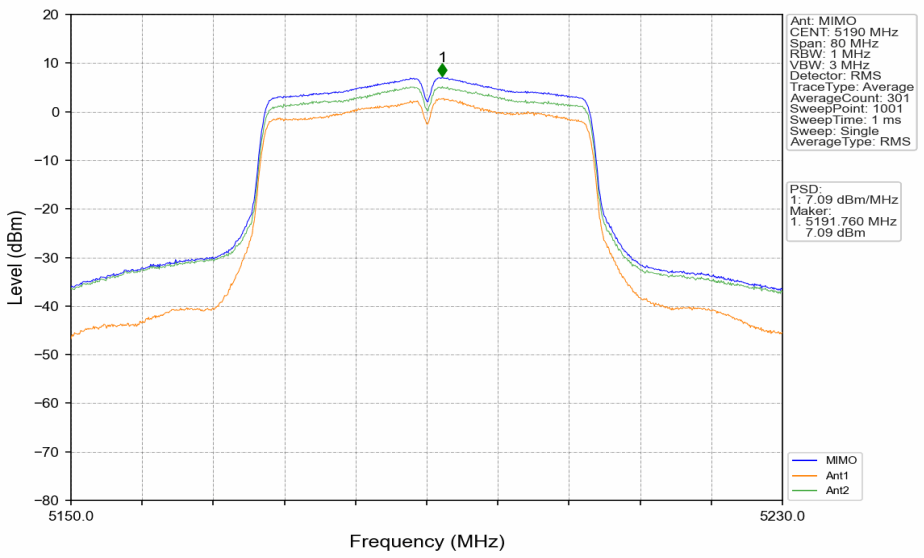
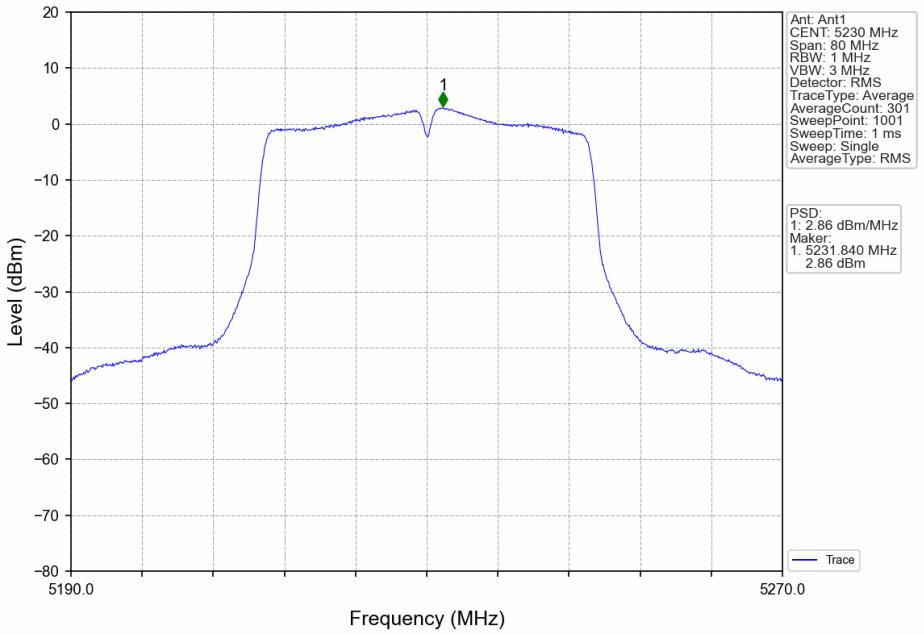


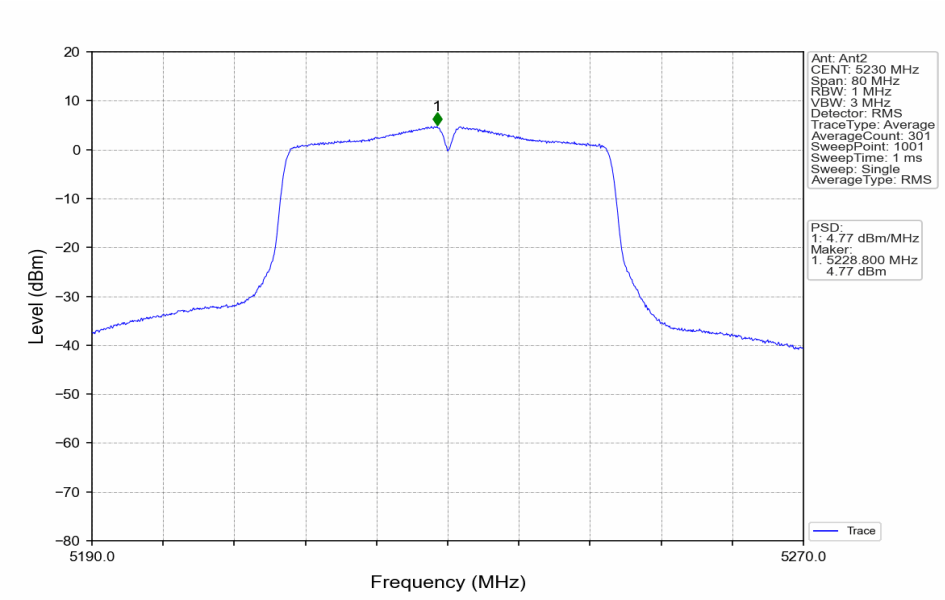
802.11ac(VHT40)_LCH_5190MHz_MIMO_NTNV



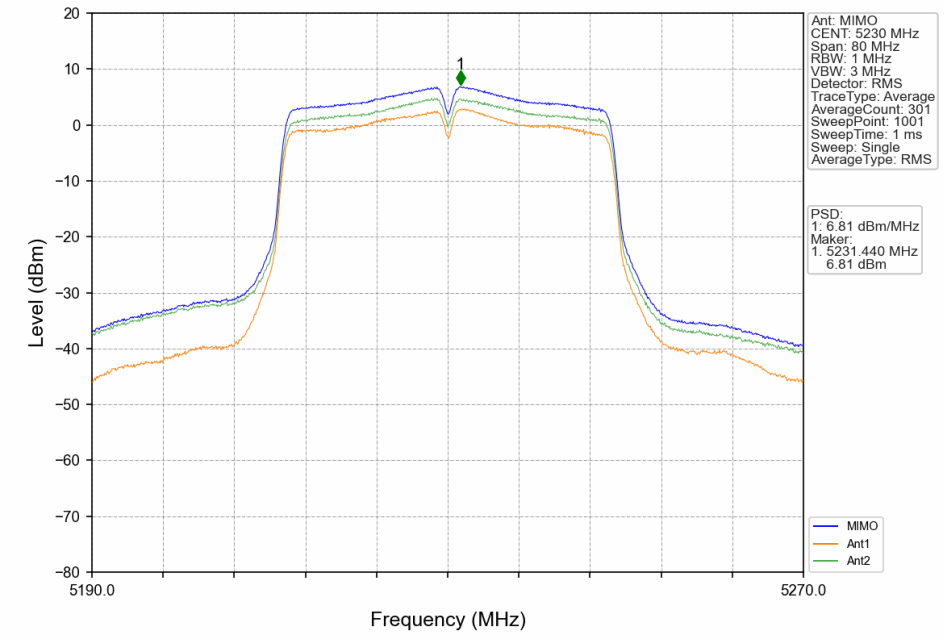
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



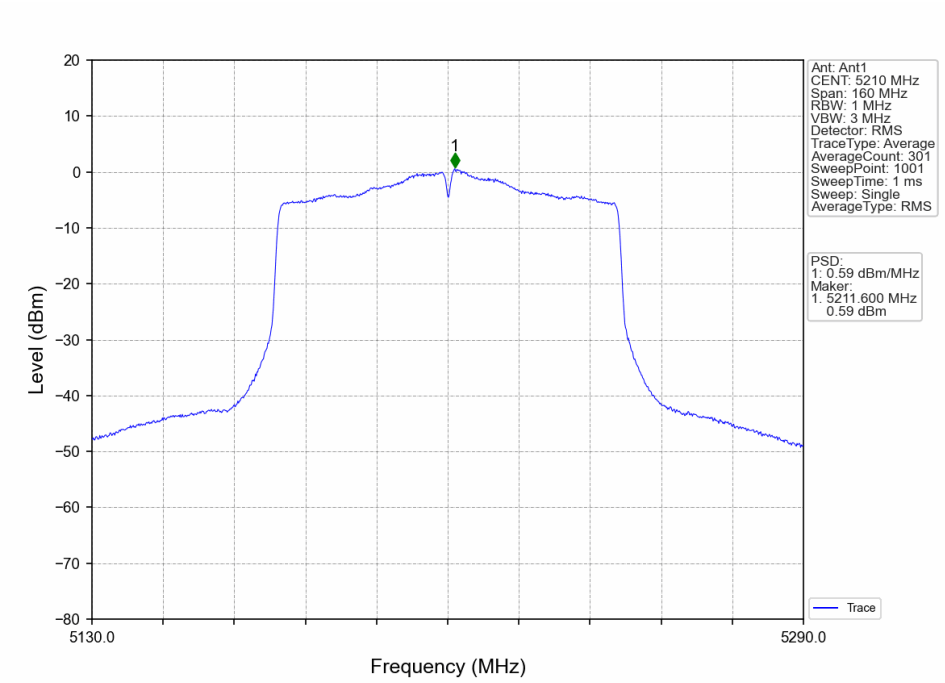
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



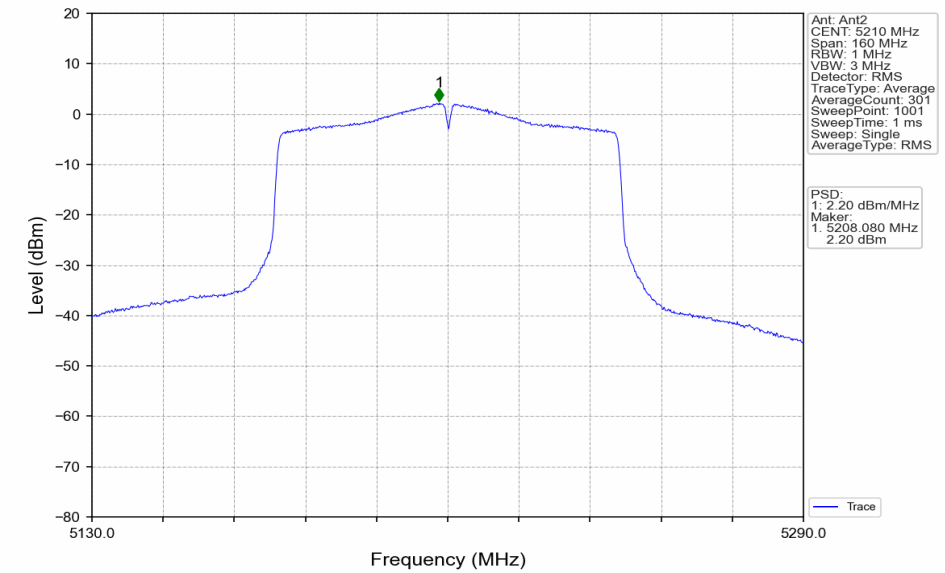
802.11ac(VHT40)_HCH_5230MHz_MIMO_NTNV



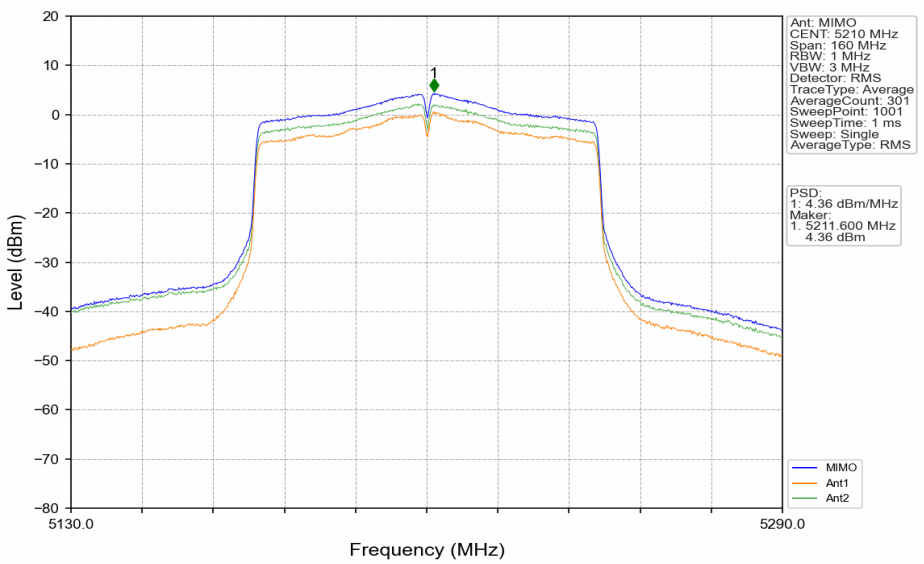
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



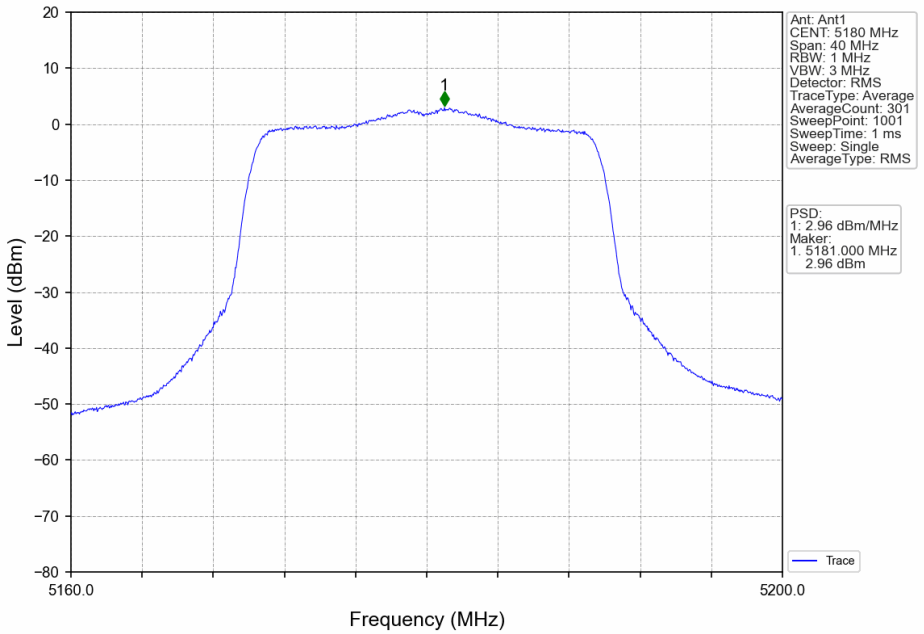
802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



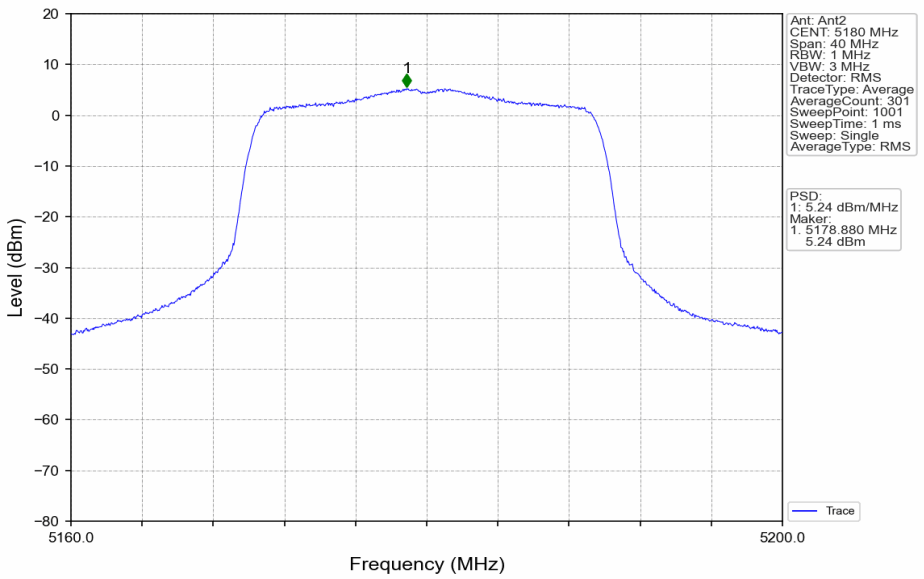
802.11ac(VHT80)_MCH_5210MHz_MIMO_NTNV



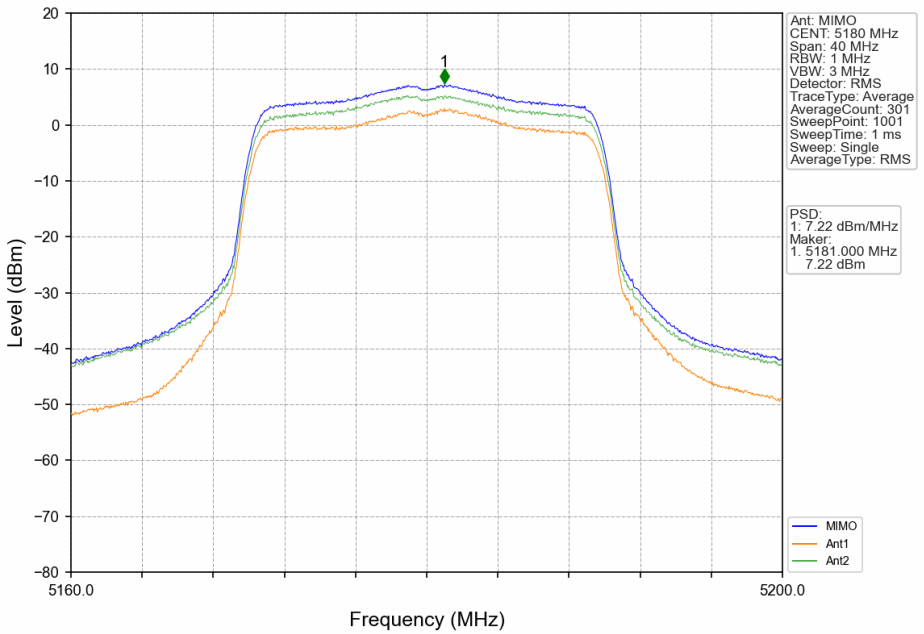
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant2_NTNV



802.11ax(HEW20)_LCH_5180MHz_RU242_Left_MIMO_NTNV



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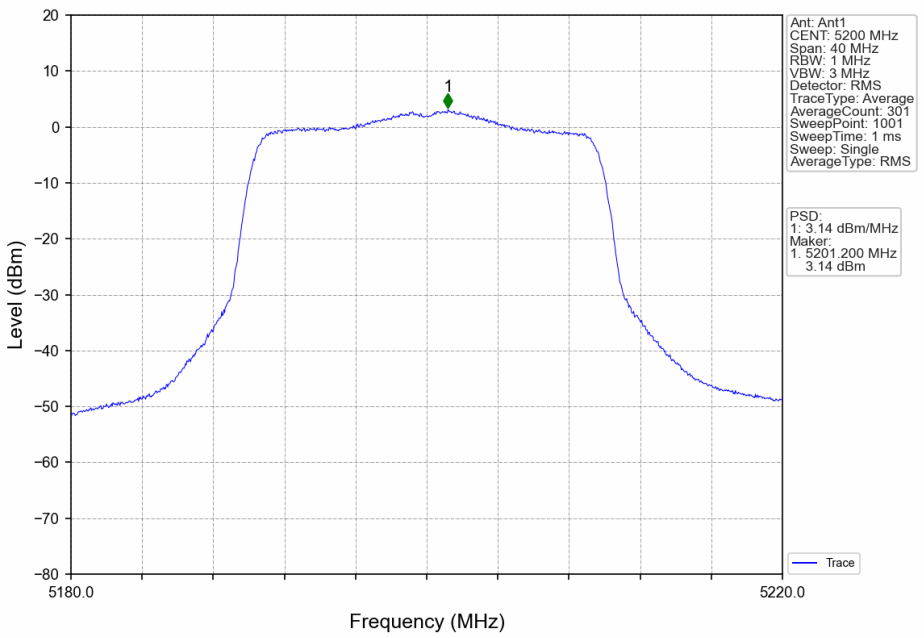
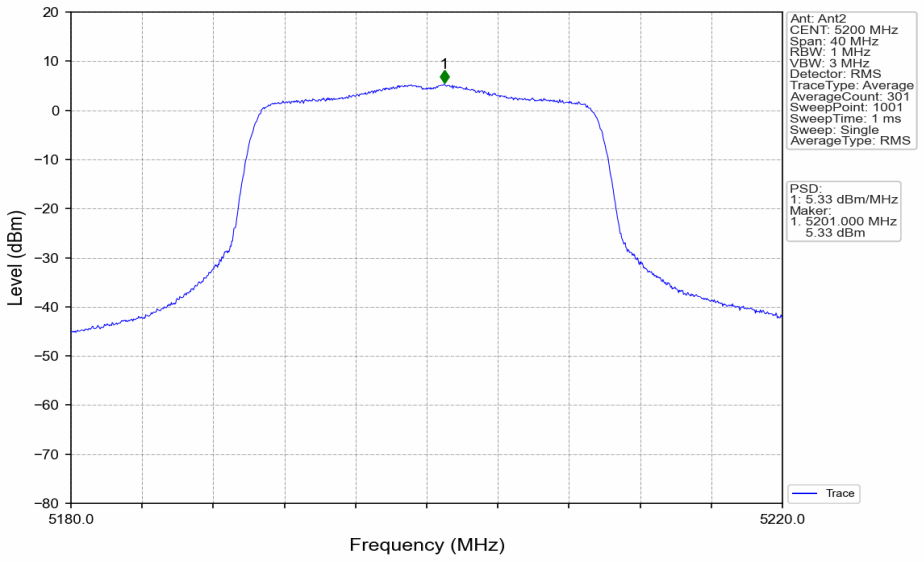
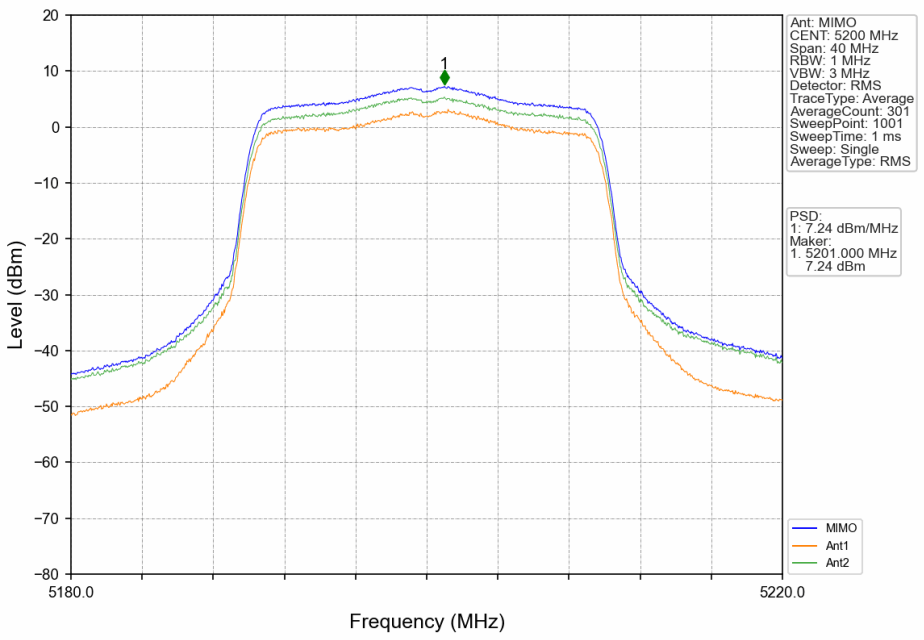
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



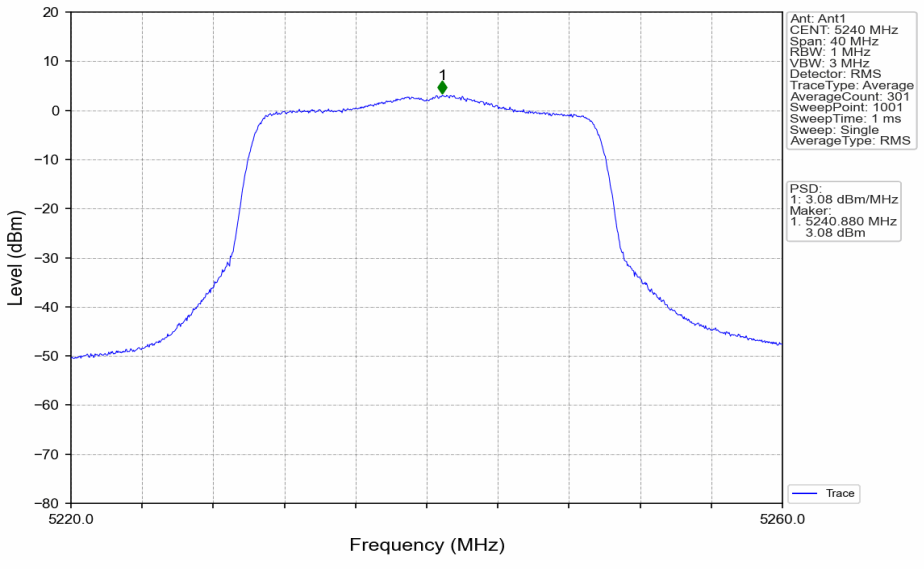
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant2_NTNV



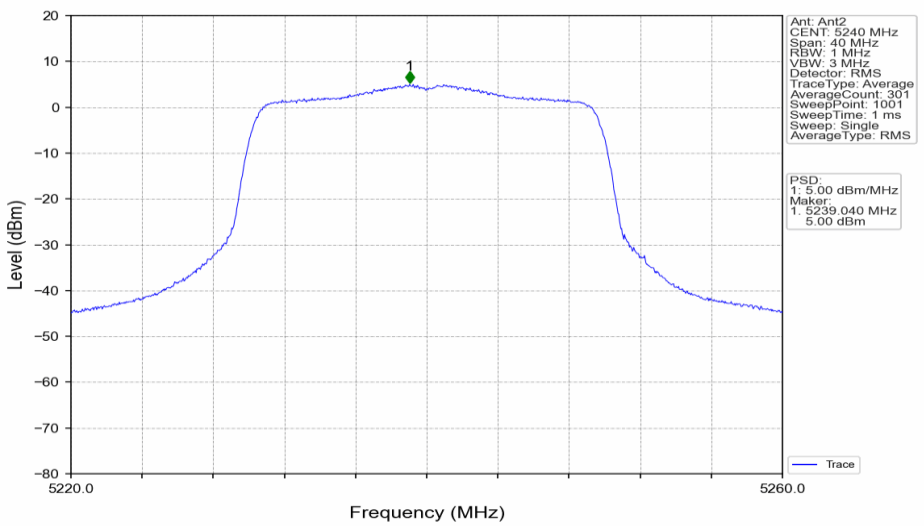
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_MIMO_NTNV



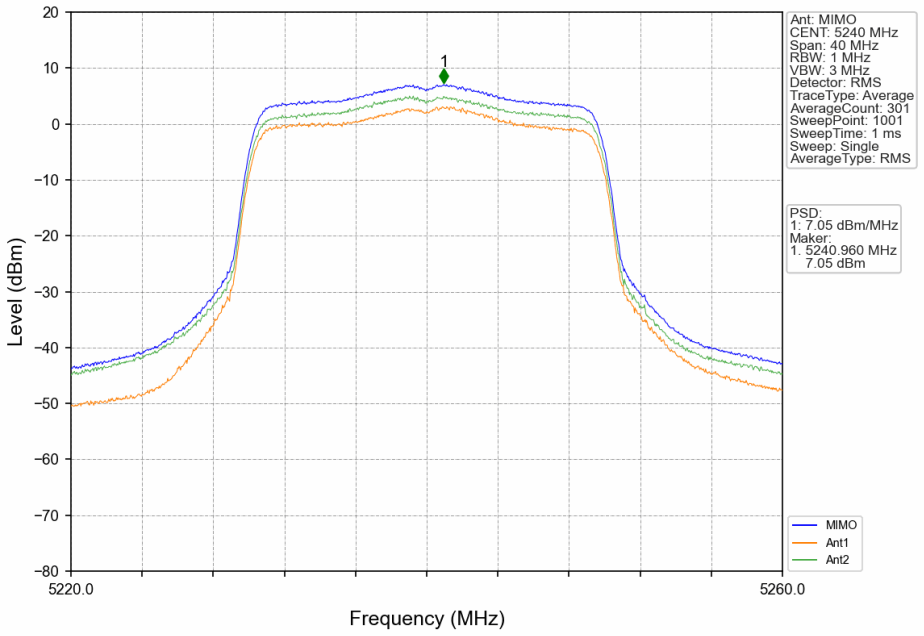
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



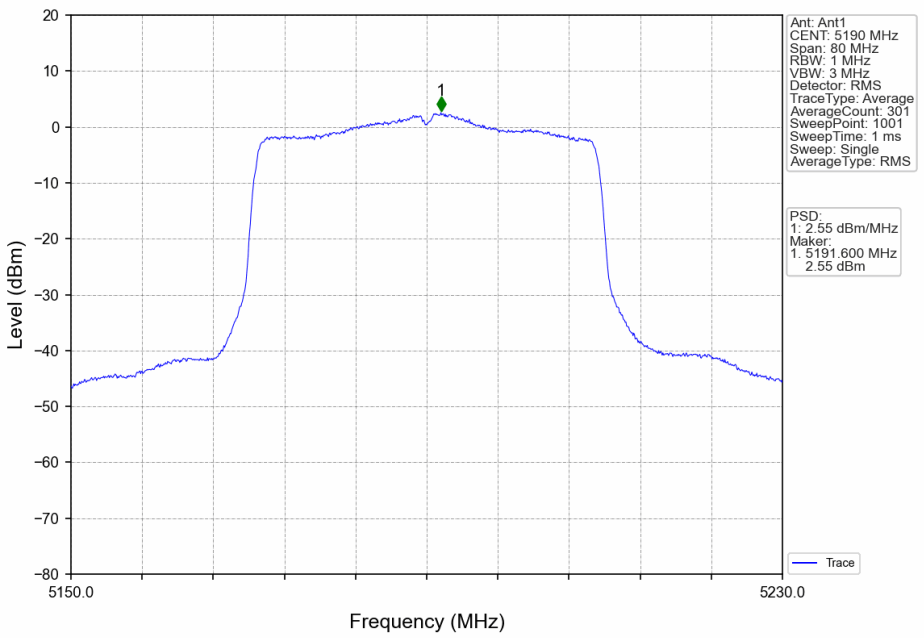
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant2_NTNV



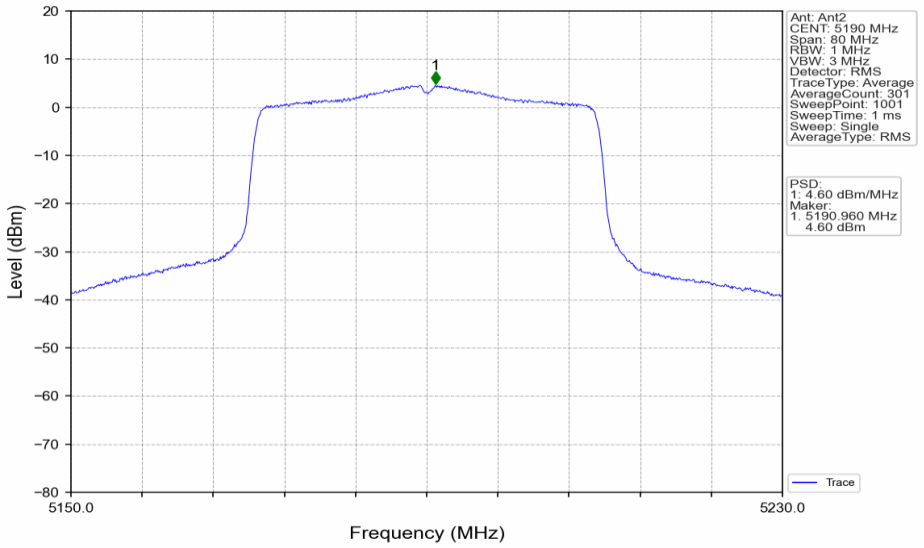
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_MIMO_NTNV



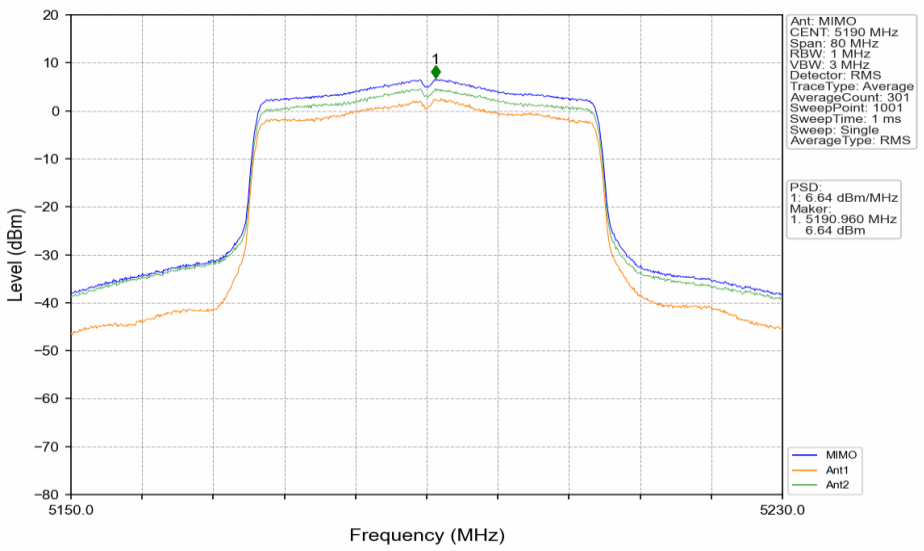
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



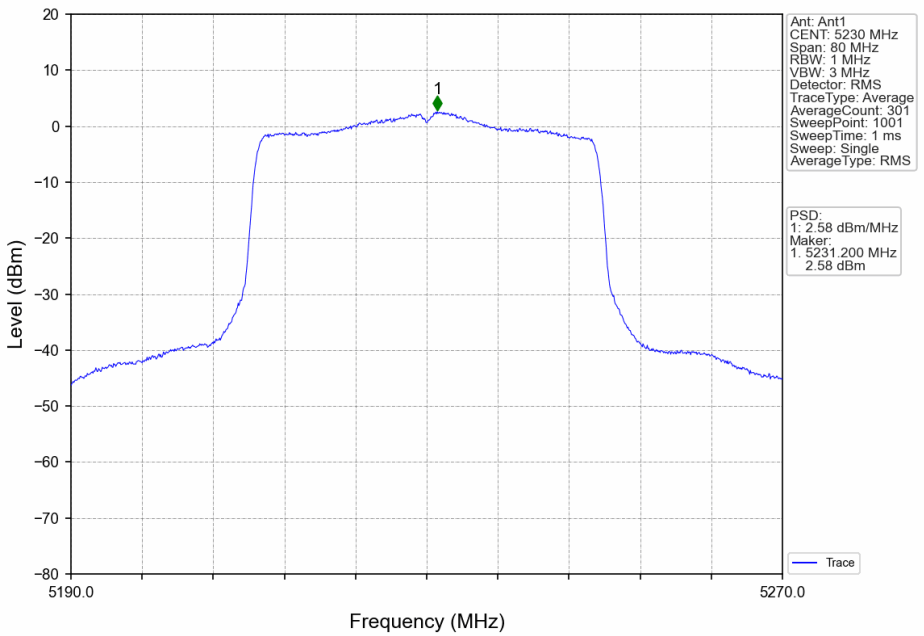
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant2_NTNV



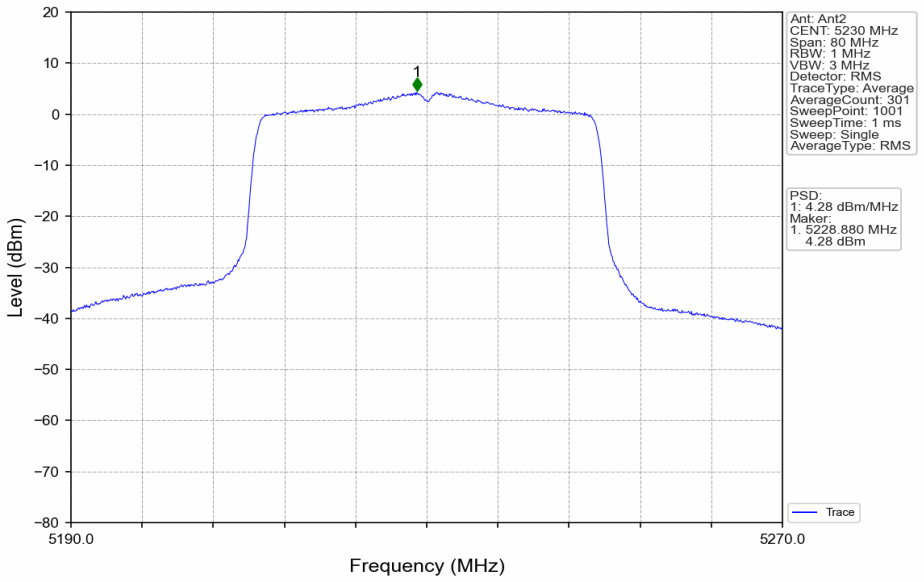
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_MIMO_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant2_NTNV



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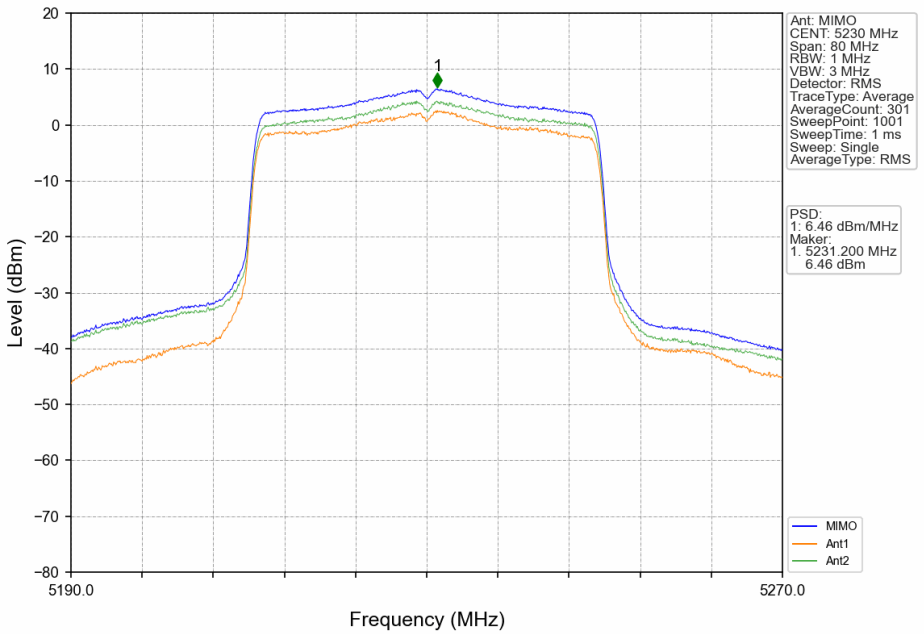
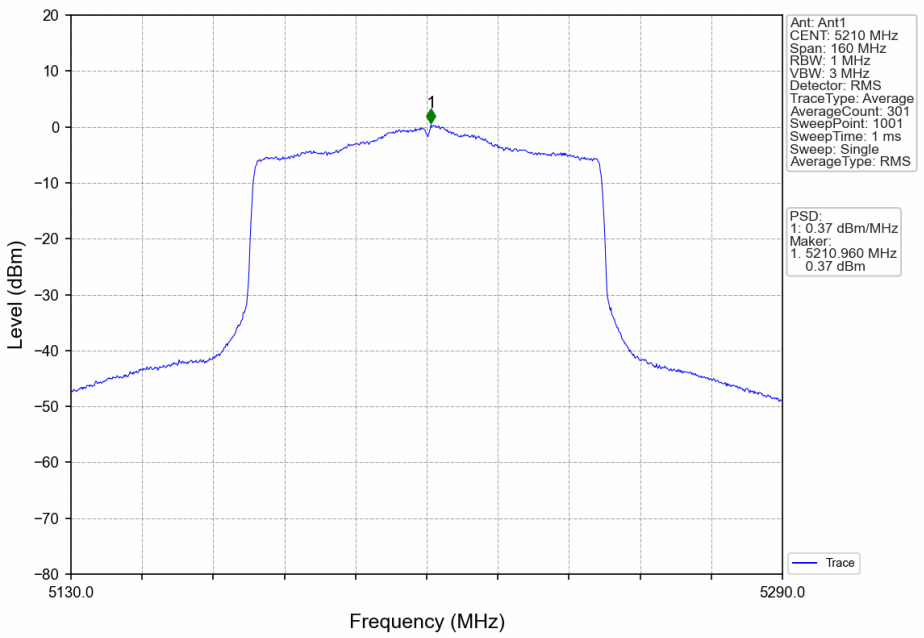
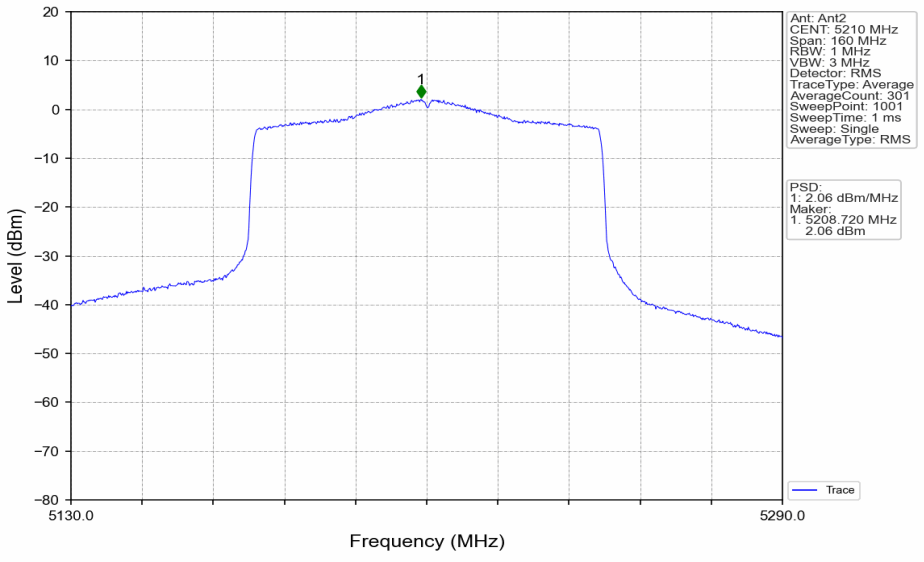


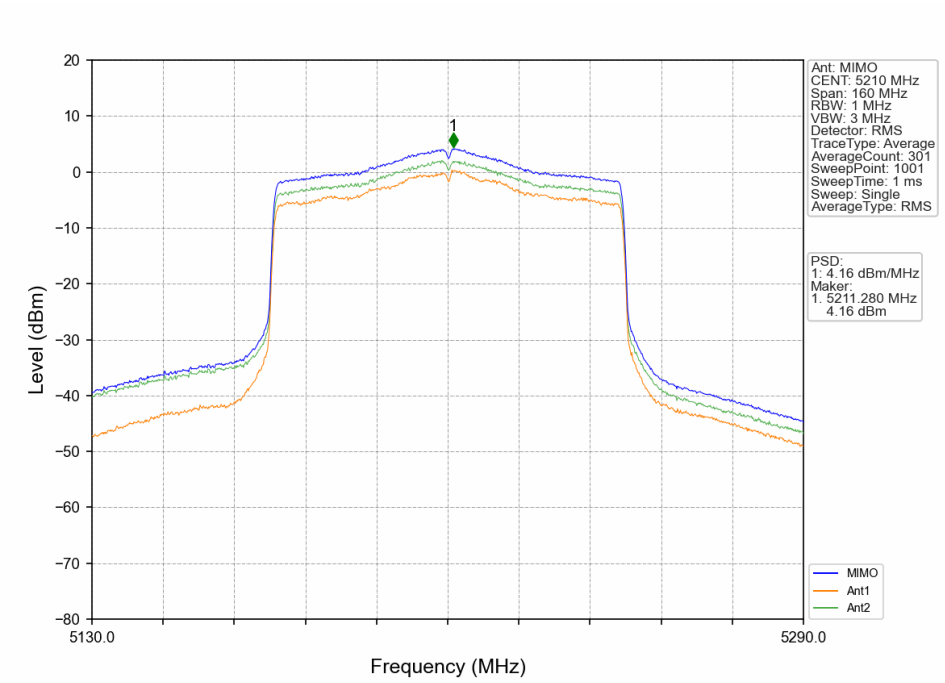
802.11ax(HEW80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5210MHz_RU996_Left_Ant2_NTNV



802.11ax(HEW80)_MCH_5210MHz_RU996_Left_MIMO_NTNV



4.2 PSD-Band3

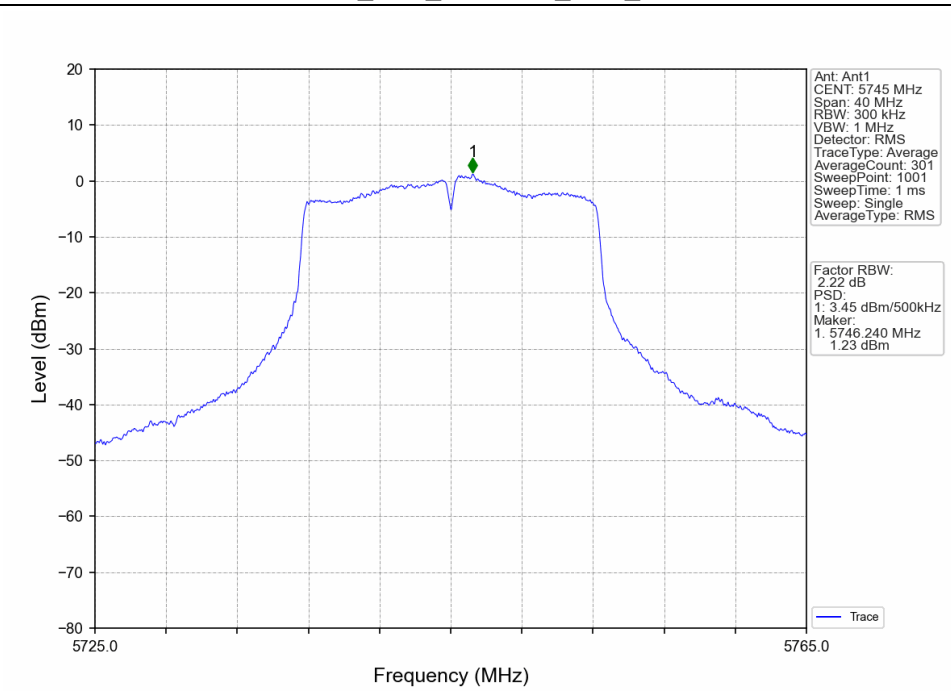
4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5745	/	/	3.45	3.95	/	<=30	Pass
		5785	/	/	3.71	5.35	/	<=30	Pass
		5825	/	/	3.48	5.67	/	<=30	Pass
802.11n (HT20)	MIMO	5745	/	/	2.42	-0.17	4.20	<=27.99	Pass
		5785	/	/	2.72	1.19	4.89	<=27.99	Pass
		5825	/	/	2.63	1.58	5.05	<=27.99	Pass
802.11n (HT40)	MIMO	5755	/	/	-0.29	-2.96	1.43	<=27.99	Pass
		5795	/	/	-0.40	-1.83	1.94	<=27.99	Pass
802.11ac (VHT20)	MIMO	5745	/	/	2.33	-0.18	4.15	<=27.99	Pass
		5785	/	/	1.65	0.38	3.98	<=27.99	Pass
		5825	/	/	1.56	0.69	4.10	<=27.99	Pass
802.11ac (VHT40)	MIMO	5755	/	/	-0.25	-3.23	1.51	<=27.99	Pass
		5795	/	/	-0.30	-1.88	1.87	<=27.99	Pass
802.11ac (VHT80)	MIMO	5775	/	/	-2.60	-4.95	-0.68	<=27.99	Pass
802.11ax (HEW20)	MIMO	5745	RU242	Left	2.63	0.06	4.28	<=27.99	Pass
		5785	RU242	Left	1.84	0.21	3.97	<=27.99	Pass
		5825	RU242	Left	1.69	0.54	4.13	<=27.99	Pass
802.11ax (HEW40)	MIMO	5755	RU484	Left	-0.56	-3.60	0.98	<=27.99	Pass
		5795	RU484	Left	-0.73	-2.37	1.46	<=27.99	Pass
802.11ax (HEW80)	MIMO	5775	RU996	Left	-2.70	-5.18	-0.82	<=27.99	Pass

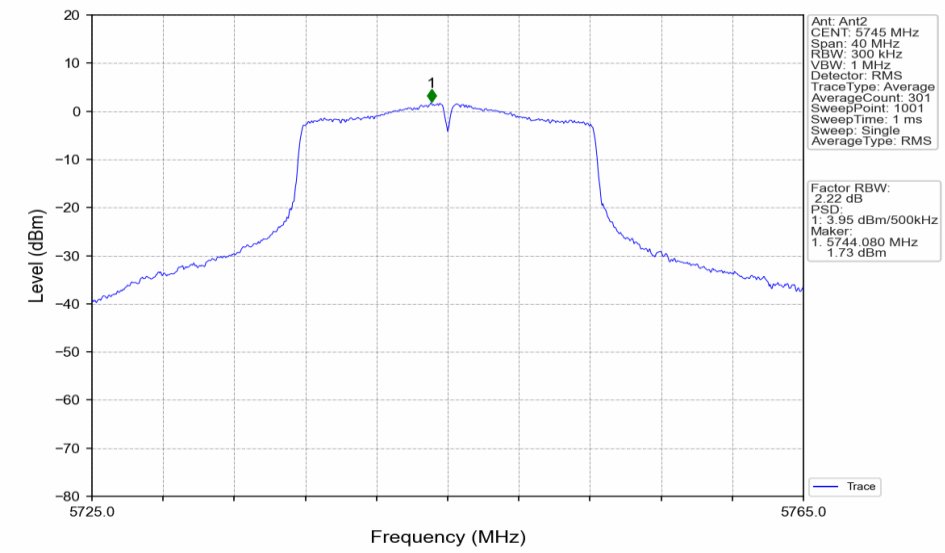
Note1: Antenna Gain (U-NII-3): ANT0: 5dBi; ANT1: 3.5dBi
directional gain (dBi) for U-NII-3 = gain of individual transmit antennas (dBi) + array gain (dB)=8.01dBi
Array gain = 10 log(N_{ANT}), where N_{ANT} is the number of transmit antennas

4.2.2 Test Graph

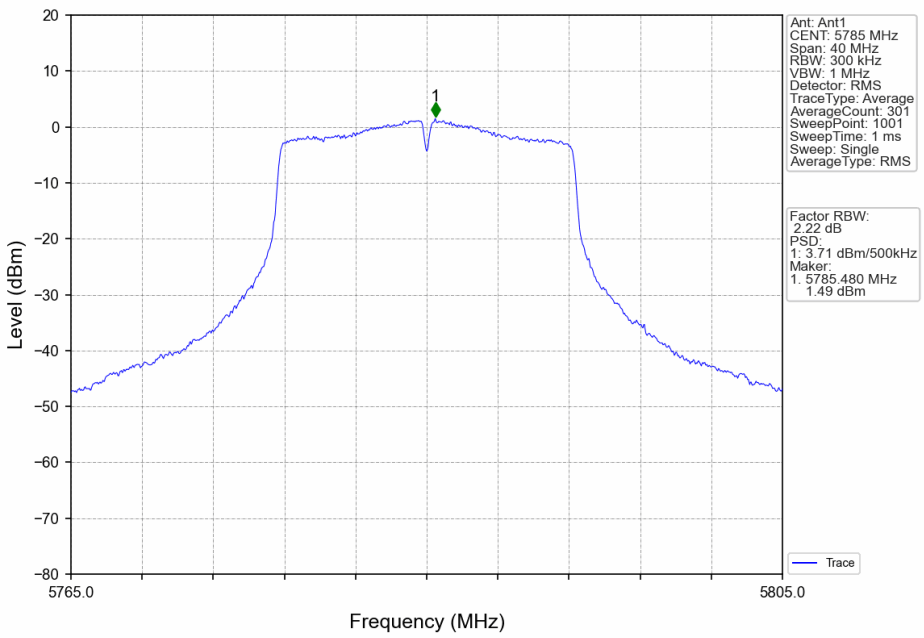
802.11a_LCH_5745MHz_Ant1_NTNV



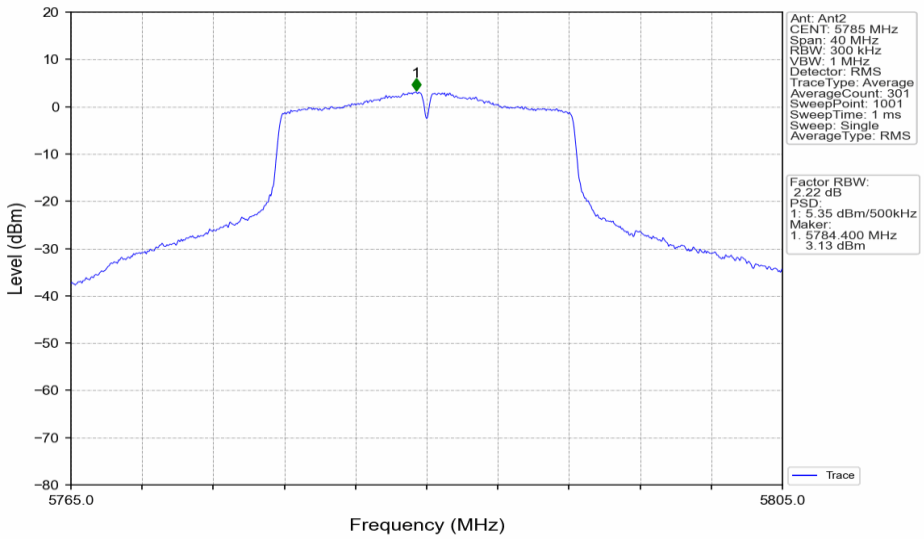
802.11a_LCH_5745MHz_Ant2_NTNV



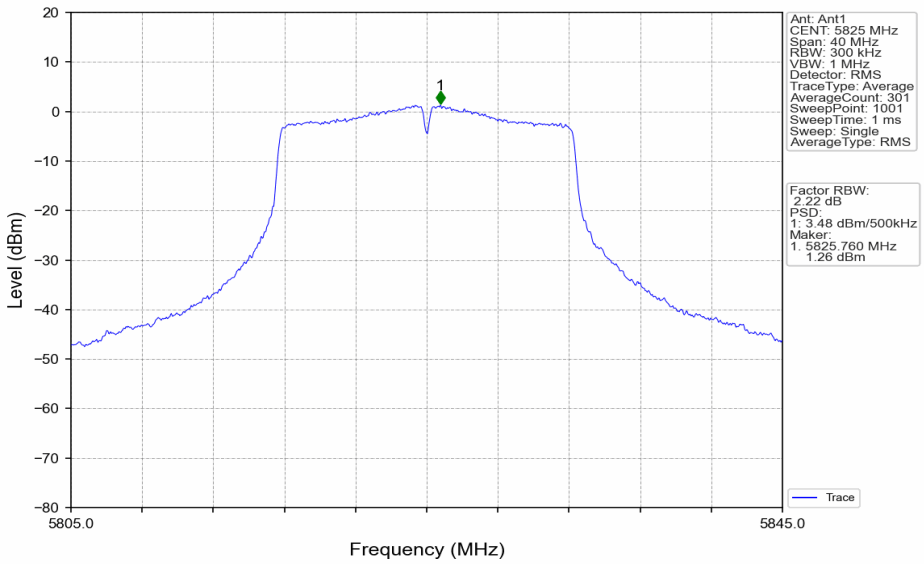
802.11a_MCH_5785MHz_Ant1_NTNV



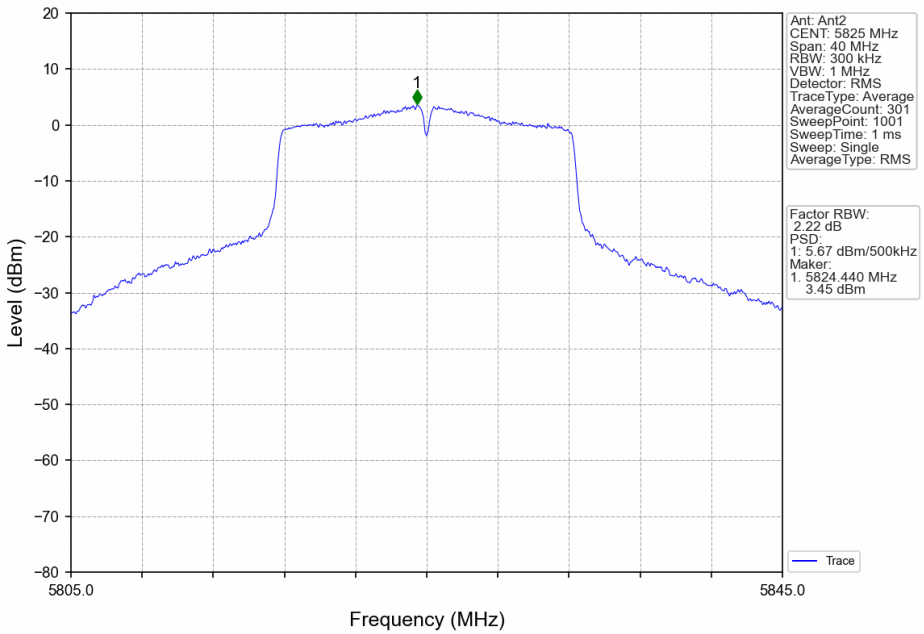
802.11a_MCH_5785MHz_Ant2_NTNV



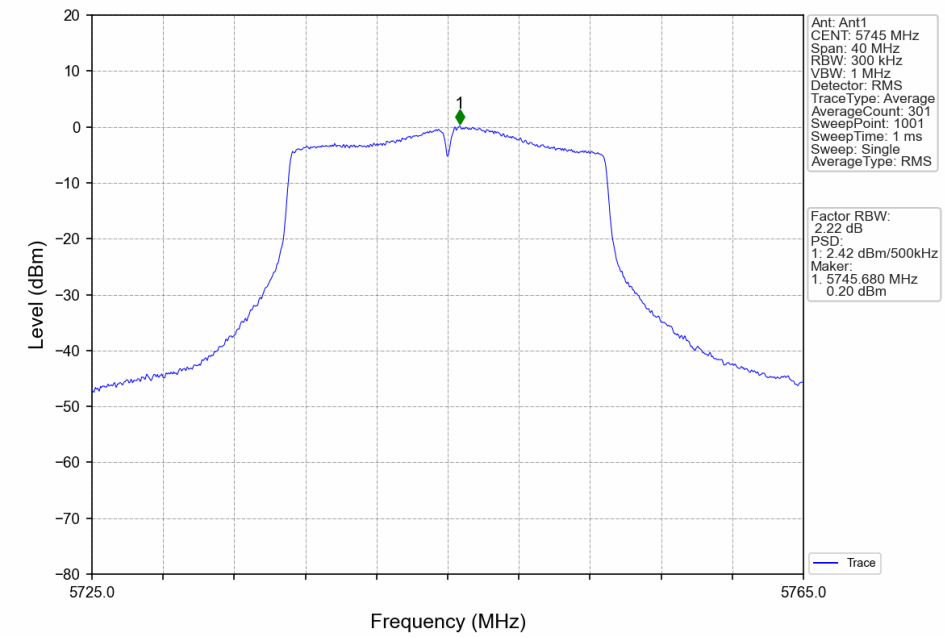
802.11a_HCH_5825MHz_Ant1_NTNV



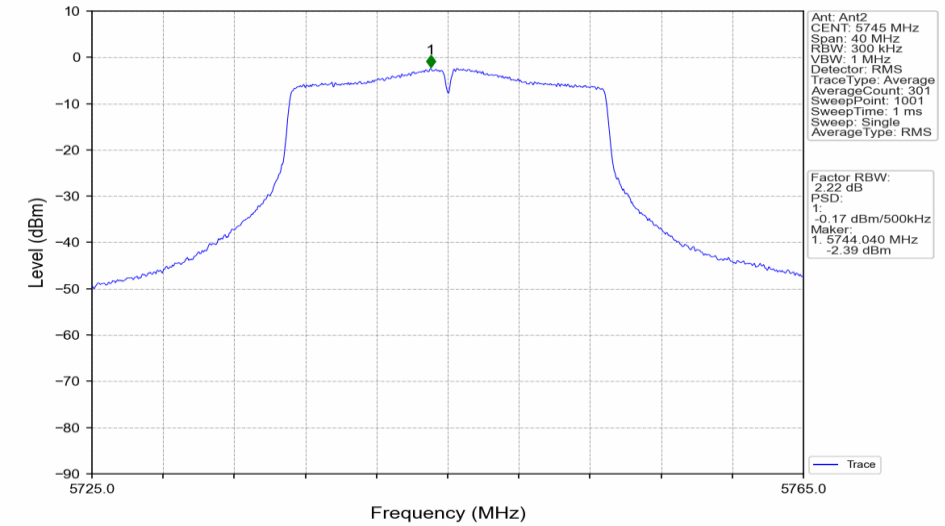
802.11a_HCH_5825MHz_Ant2_NTNV



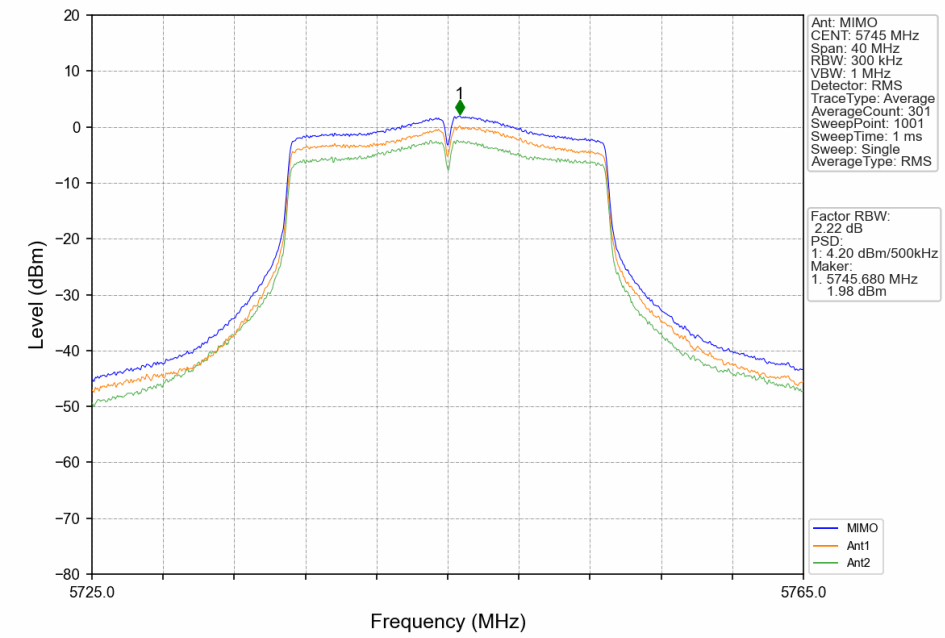
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



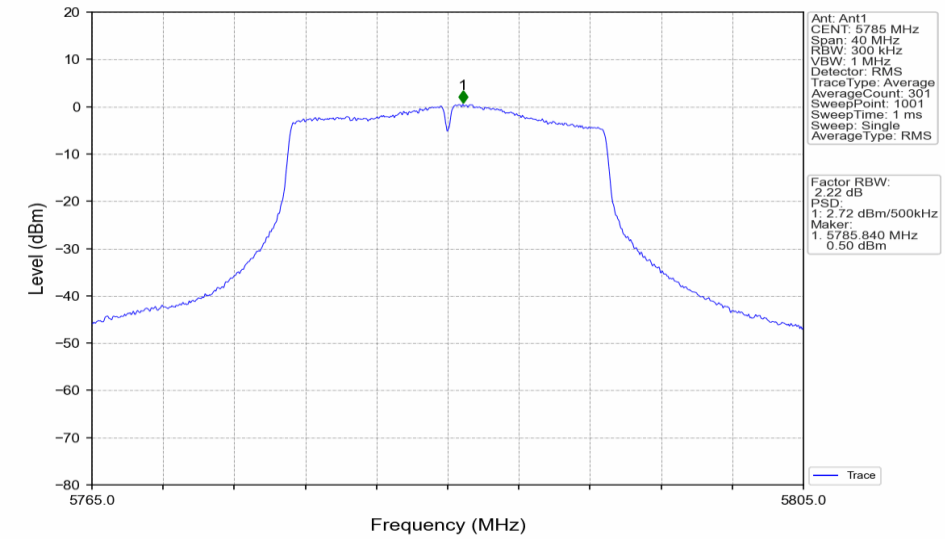
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



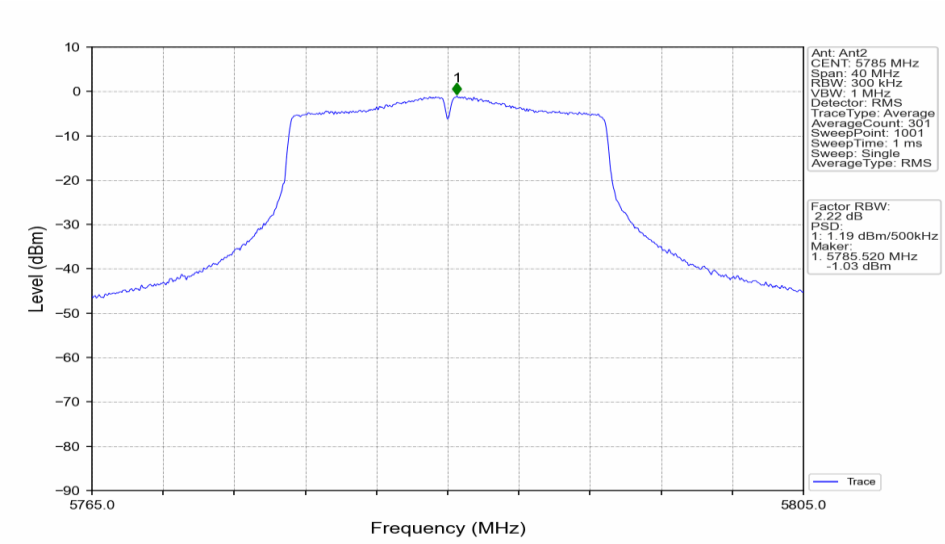
802.11n(HT20)_LCH_5745MHz_MIMO_NTNV



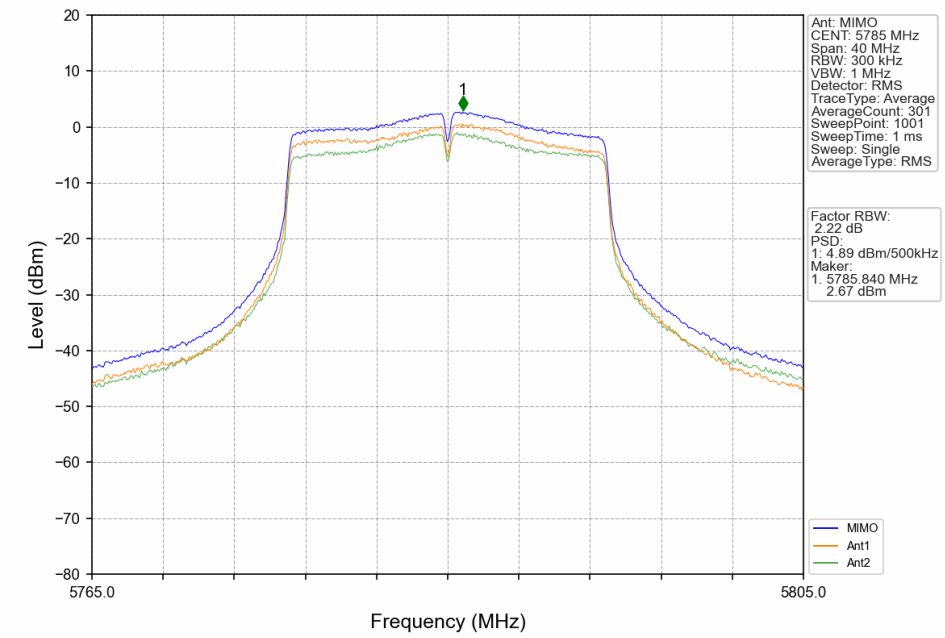
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



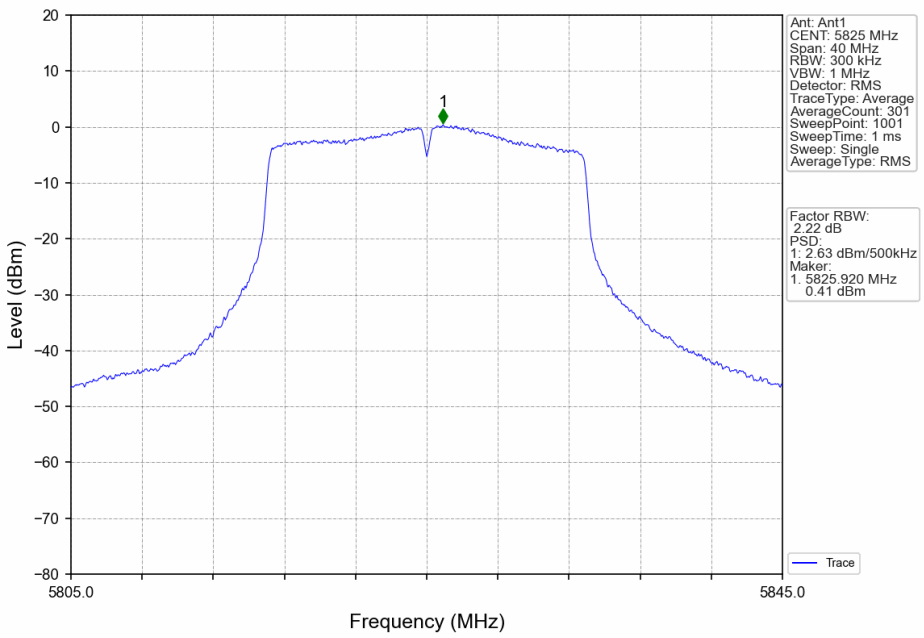
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



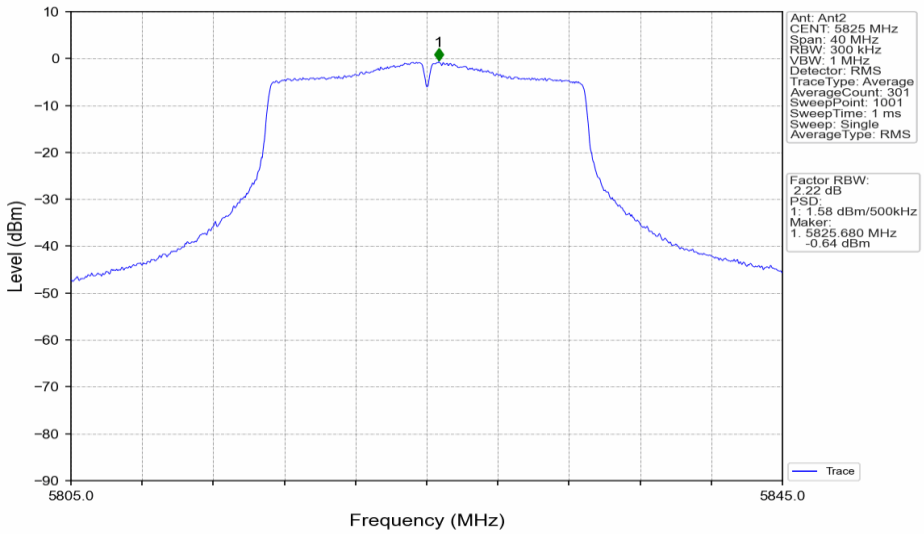
802.11n(HT20)_MCH_5785MHz_MIMO_NTNV



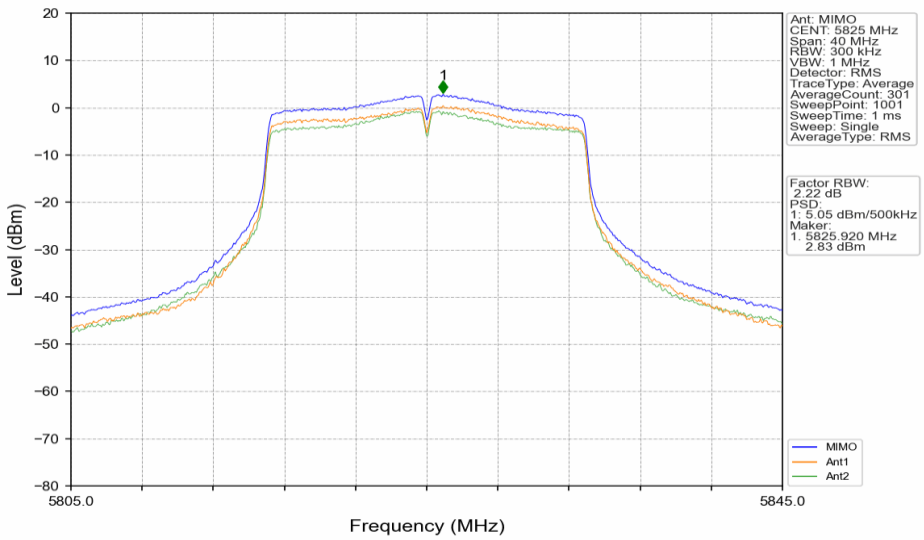
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



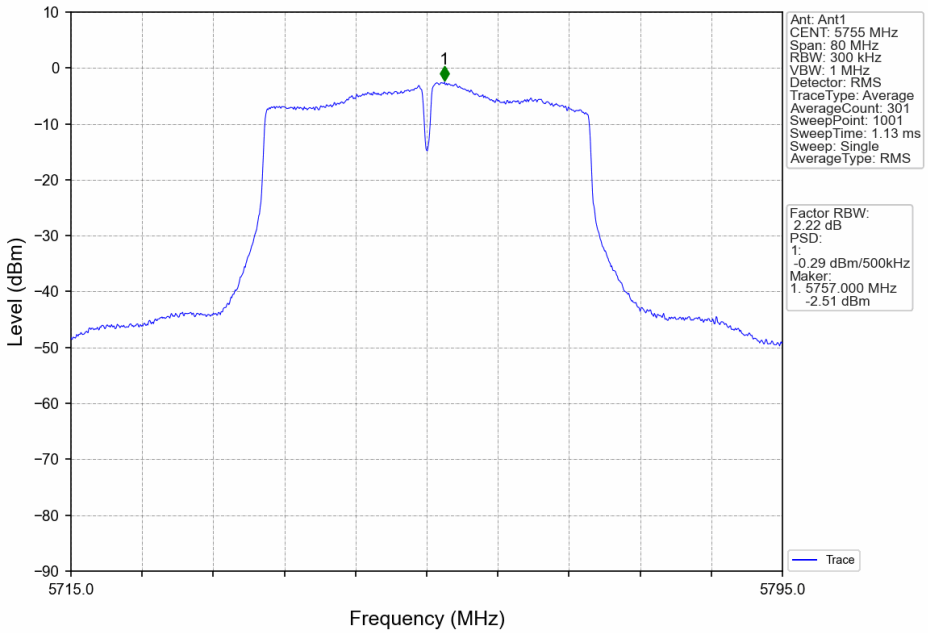
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



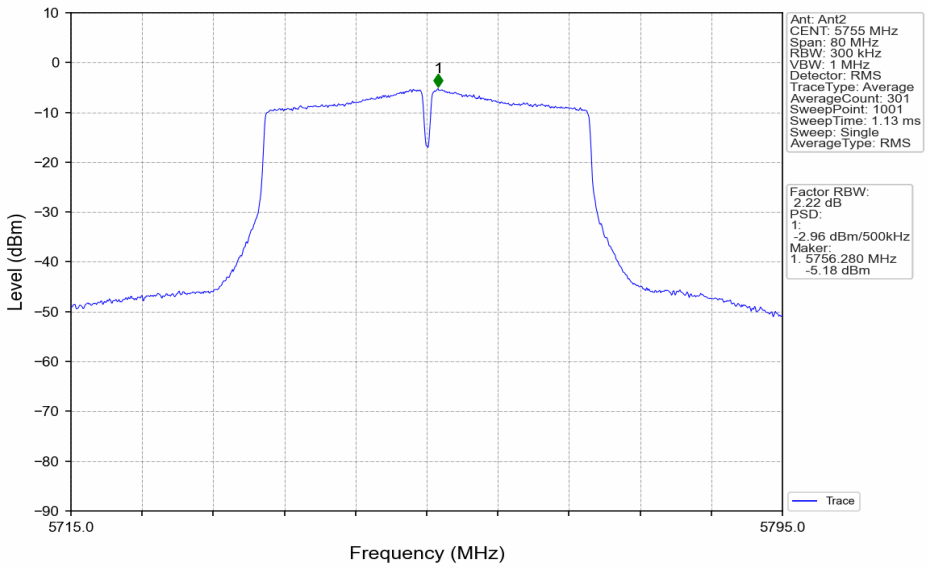
802.11n(HT20)_HCH_5825MHz_MIMO_NTNV



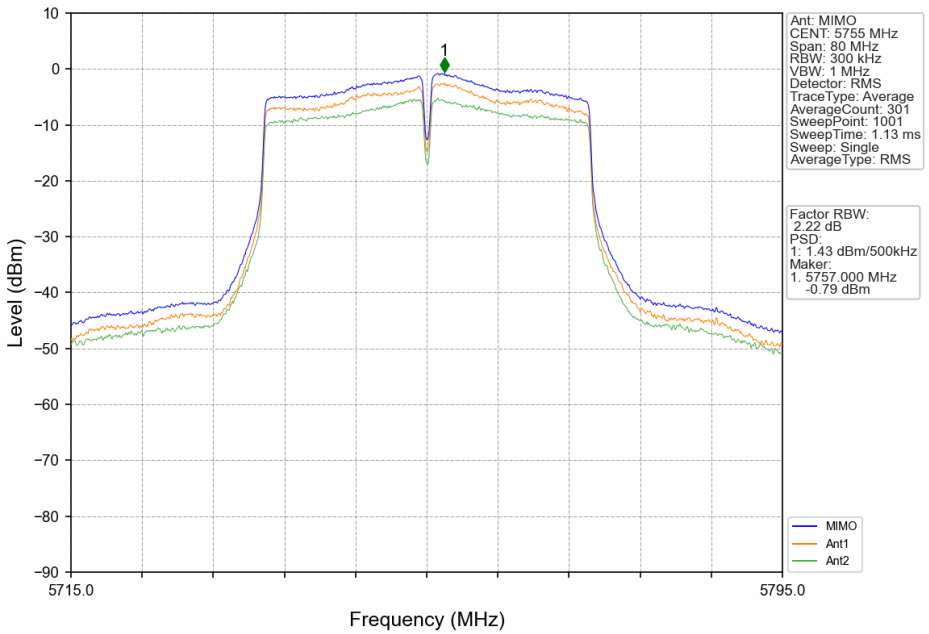
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



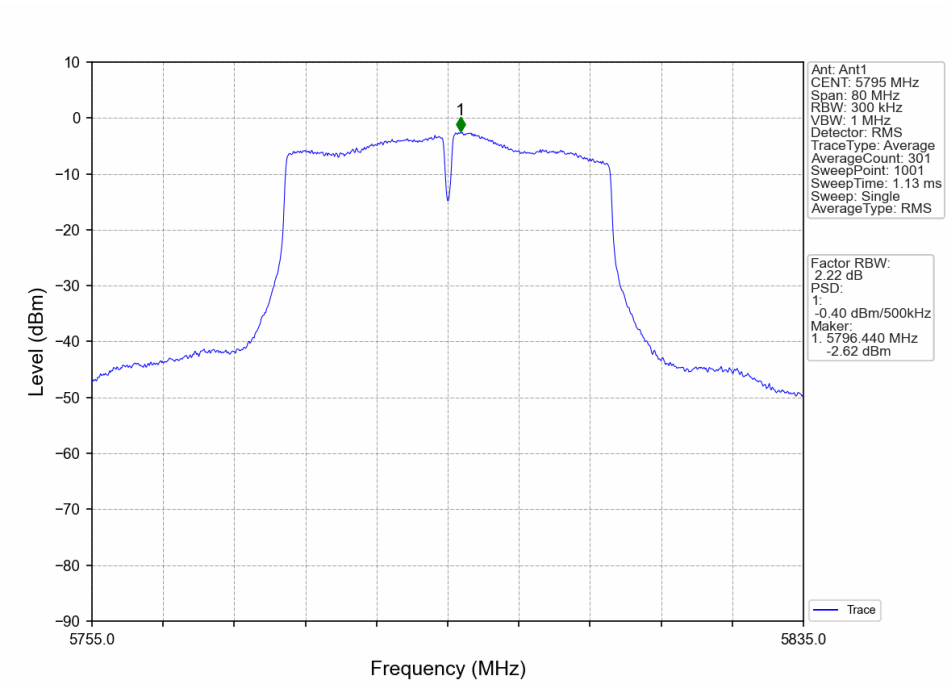
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



802.11n(HT40)_LCH_5755MHz_MIMO_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant2_NTNV