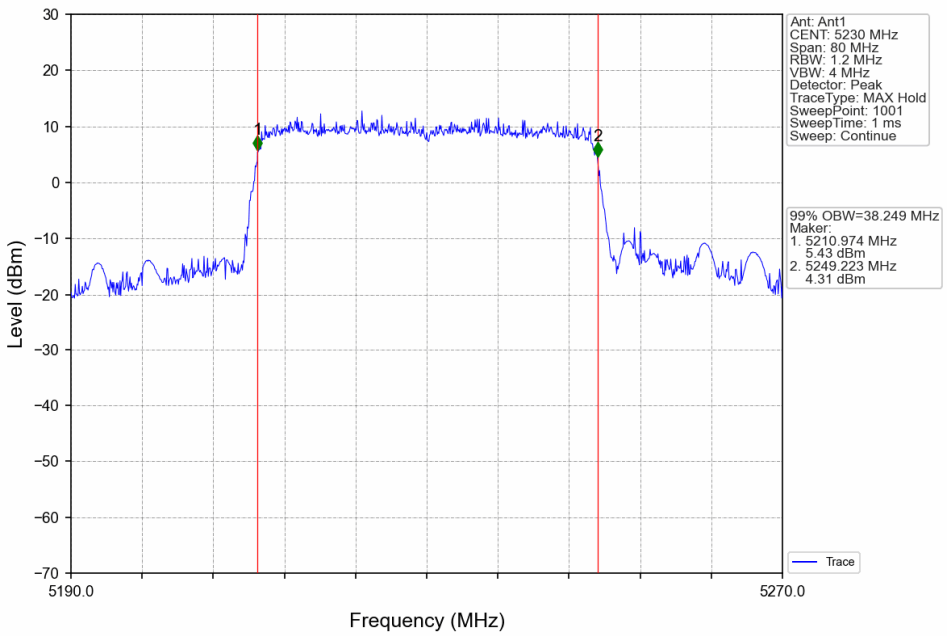
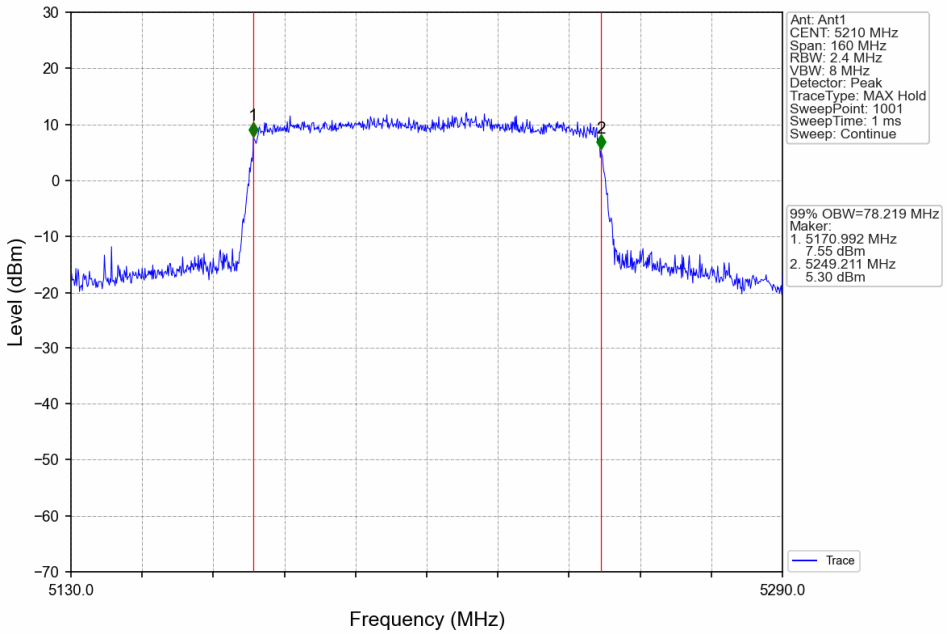
802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



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2.2 26dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz) Result	Verdict
802.11a	SISO	5180	/	/	1	33.851	Pass
		5200	/	/	1	27.892	Pass
		5240	/	/	1	22.775	Pass
802.11n (HT20)	MIMO	5180	/	/	1	21.282	Pass
		5200	/	/	1	23.628	Pass
		5240	/	/	1	21.198	Pass
802.11n (HT40)	MIMO	5190	/	/	1	39.293	Pass
		5230	/	/	1	39.302	Pass
802.11ac (VHT20)	MIMO	5180	/	/	1	33.418	Pass
		5200	/	/	1	23.968	Pass
		5240	/	/	1	25.591	Pass
802.11ac (VHT40)	MIMO	5190	/	/	1	39.289	Pass
		5230	/	/	1	39.215	Pass
802.11ac (VHT80)	MIMO	5210	/	/	1	80.407	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	1	25.101	Pass
		5200	RU242	Left	1	22.581	Pass
		5240	RU242	Left	1	21.507	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	1	57.104	Pass
		5230	RU484	Left	1	51.573	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	1	81.508	Pass

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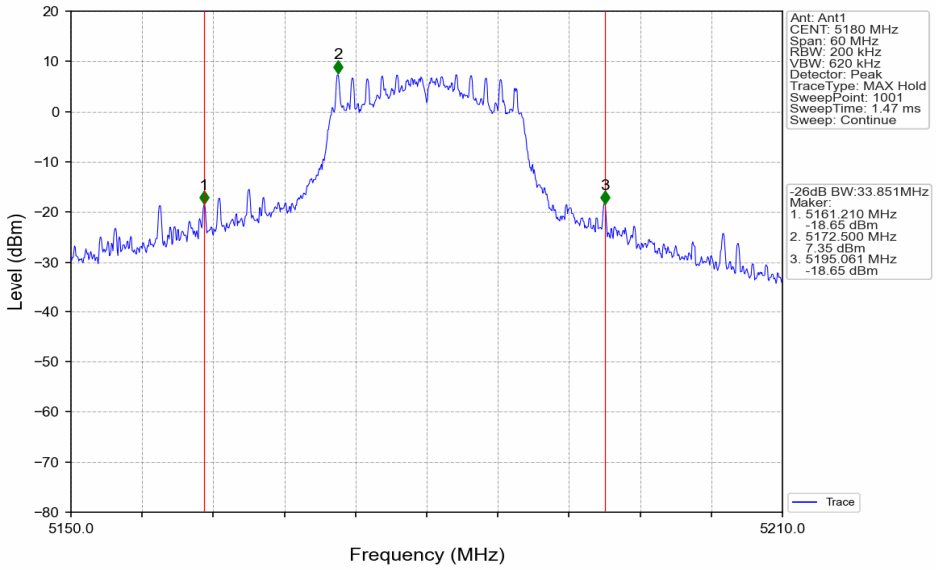
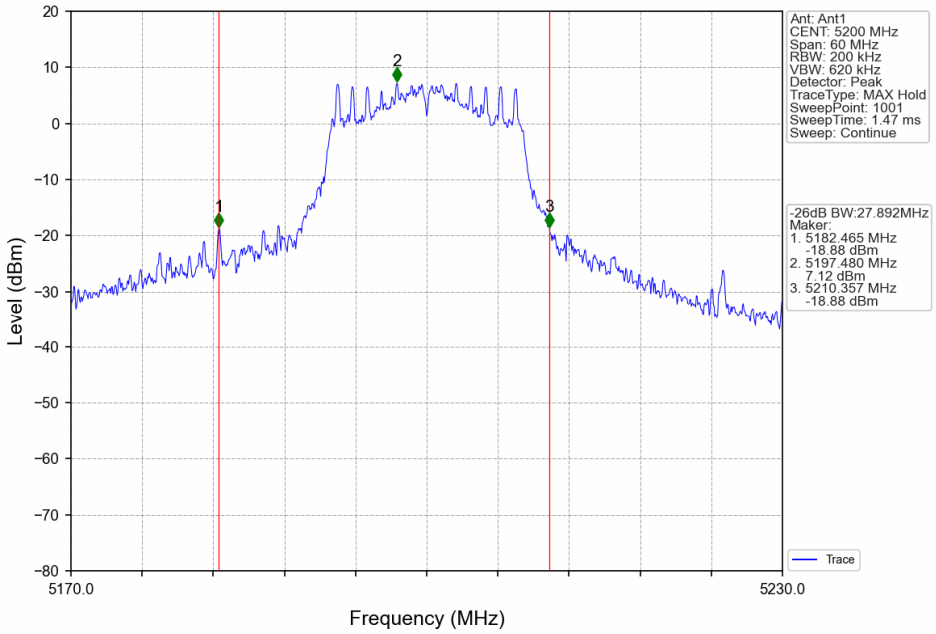
2.2.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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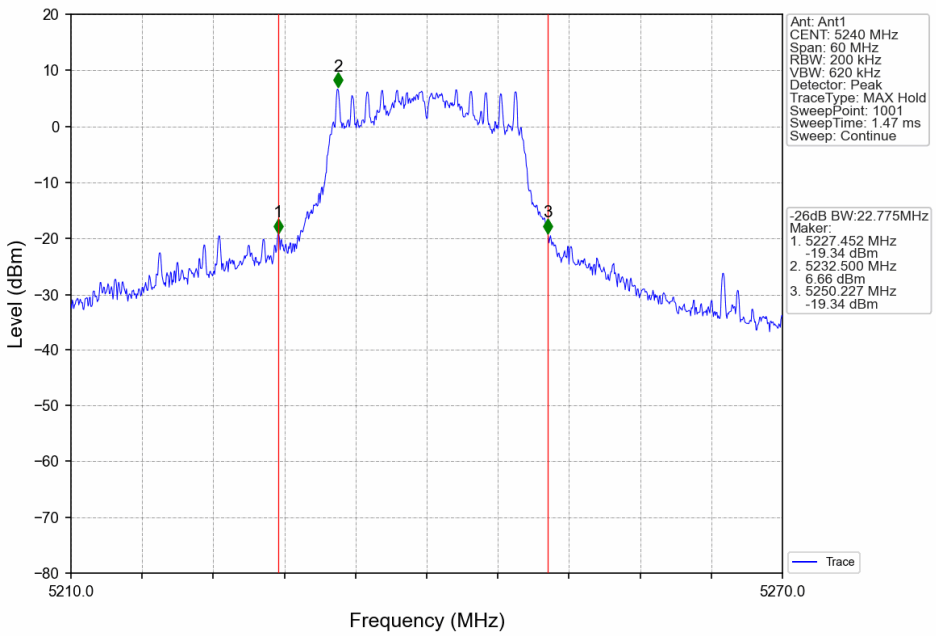
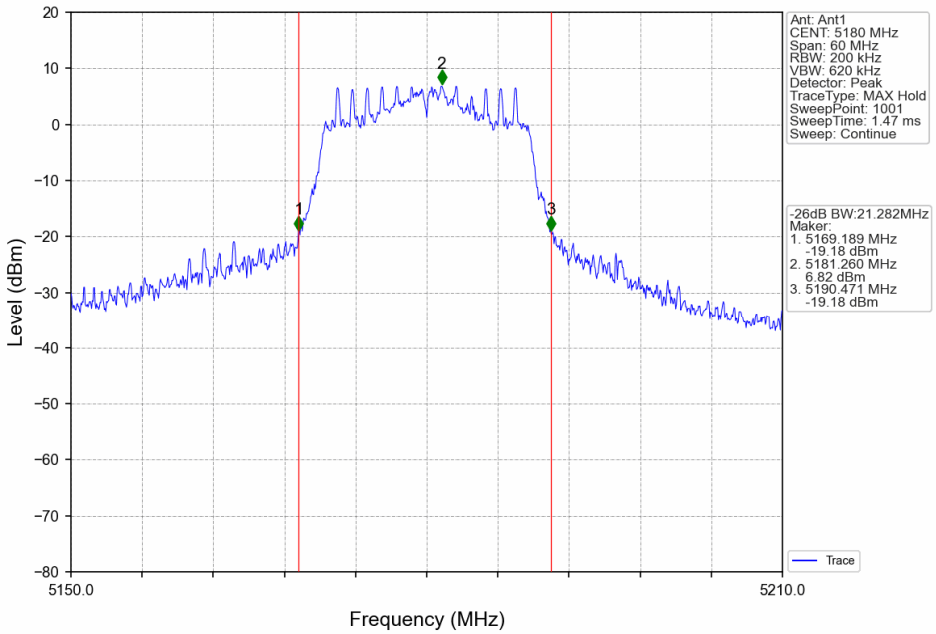
802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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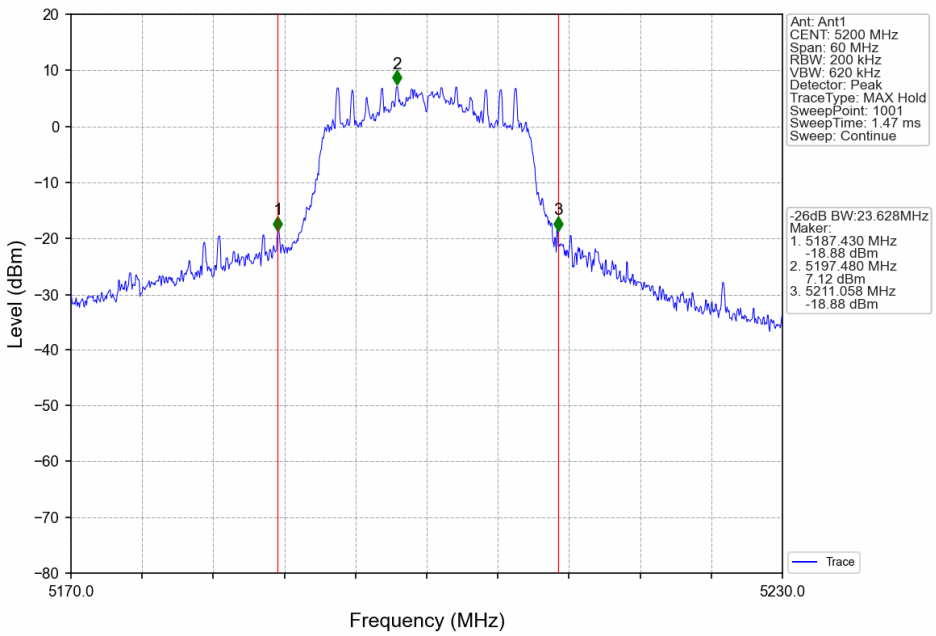
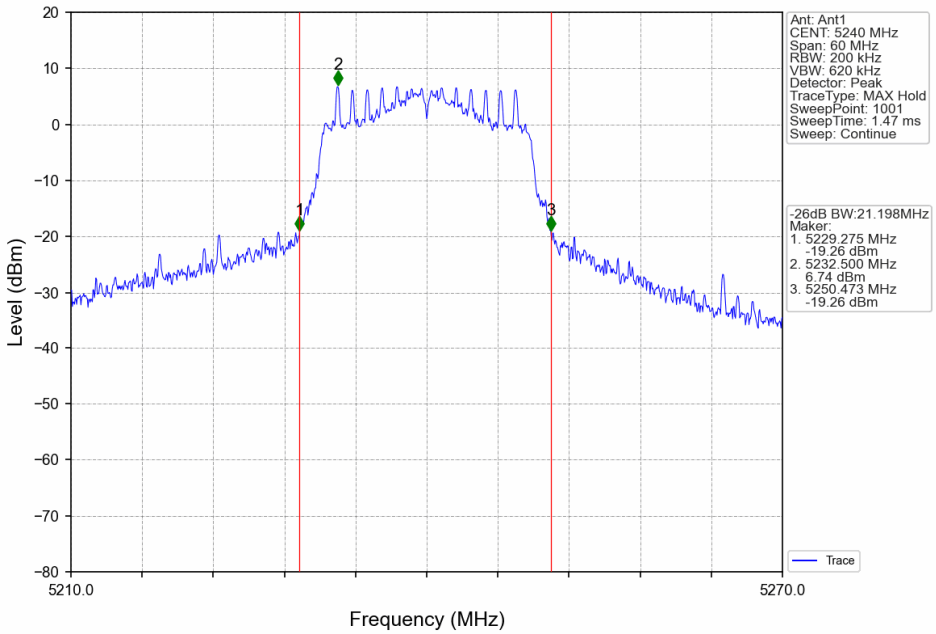
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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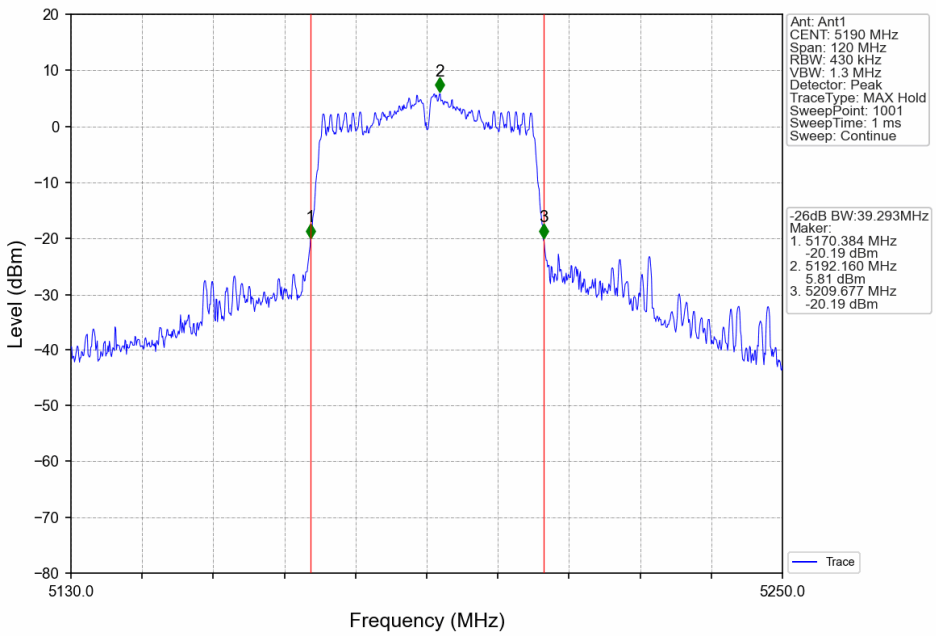
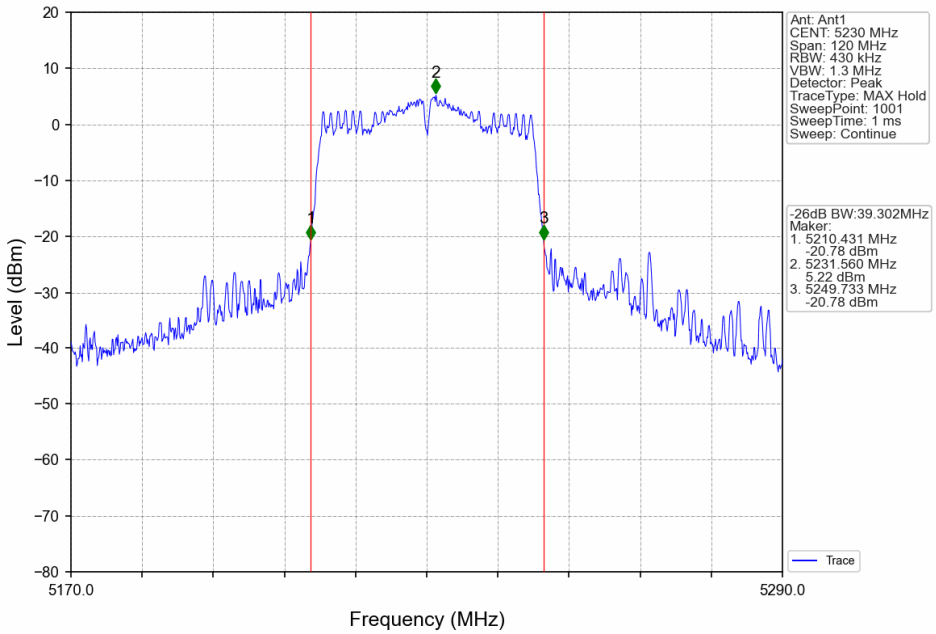
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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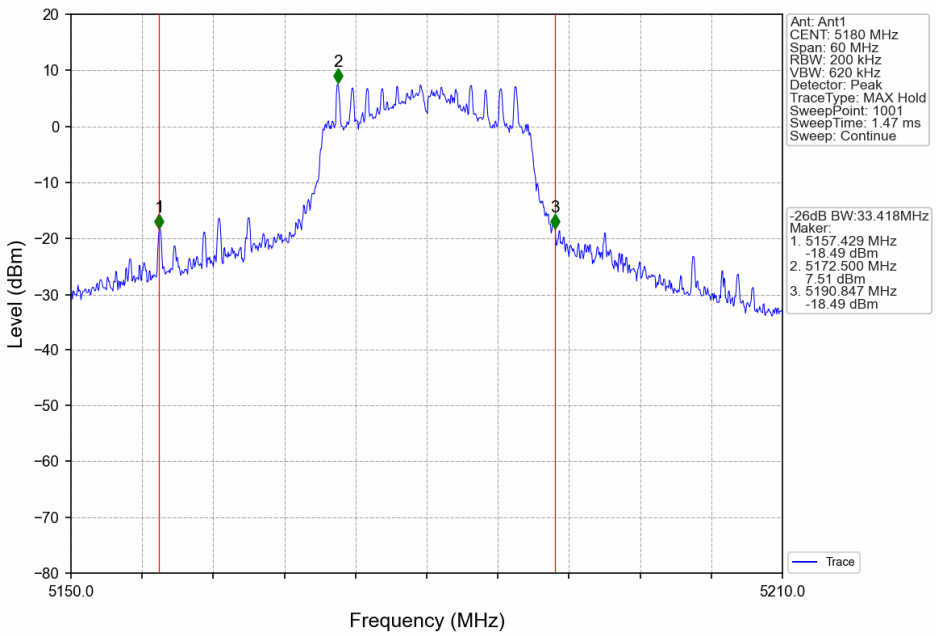
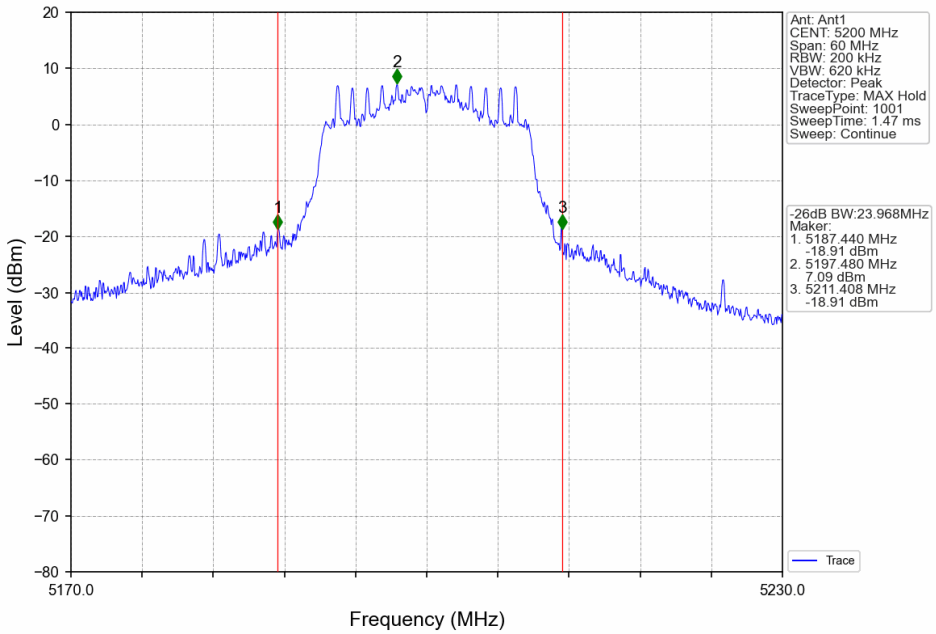
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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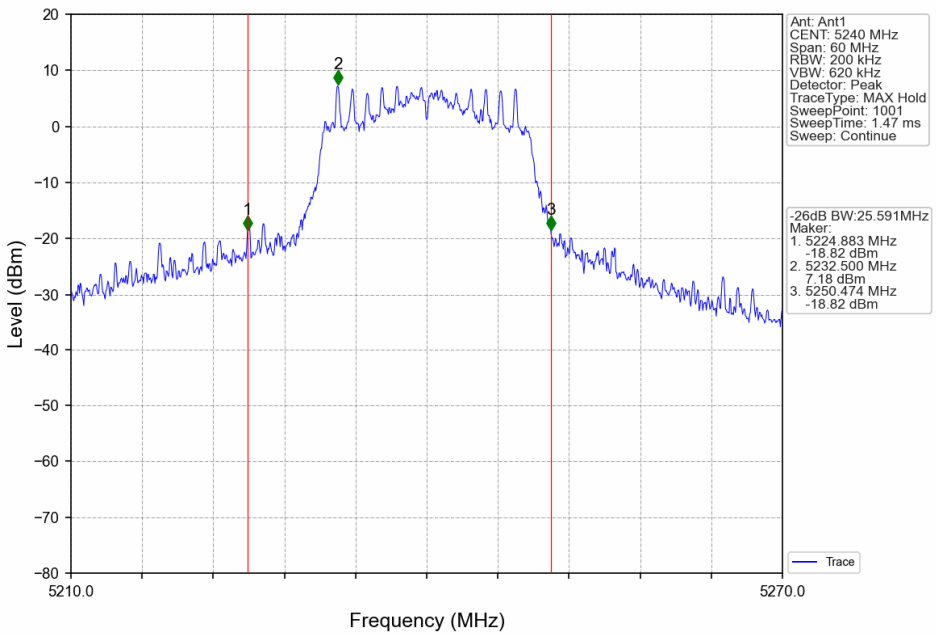
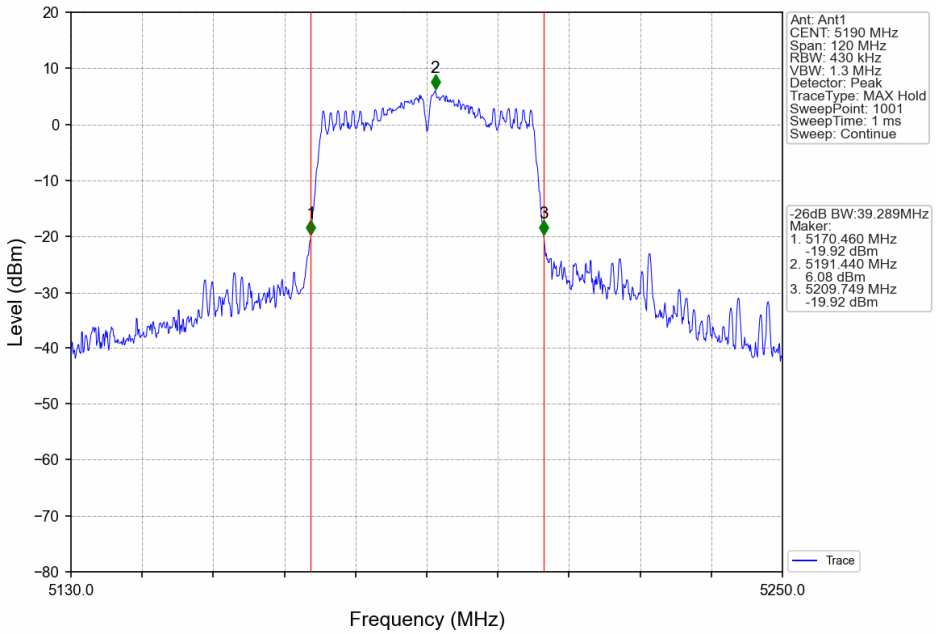
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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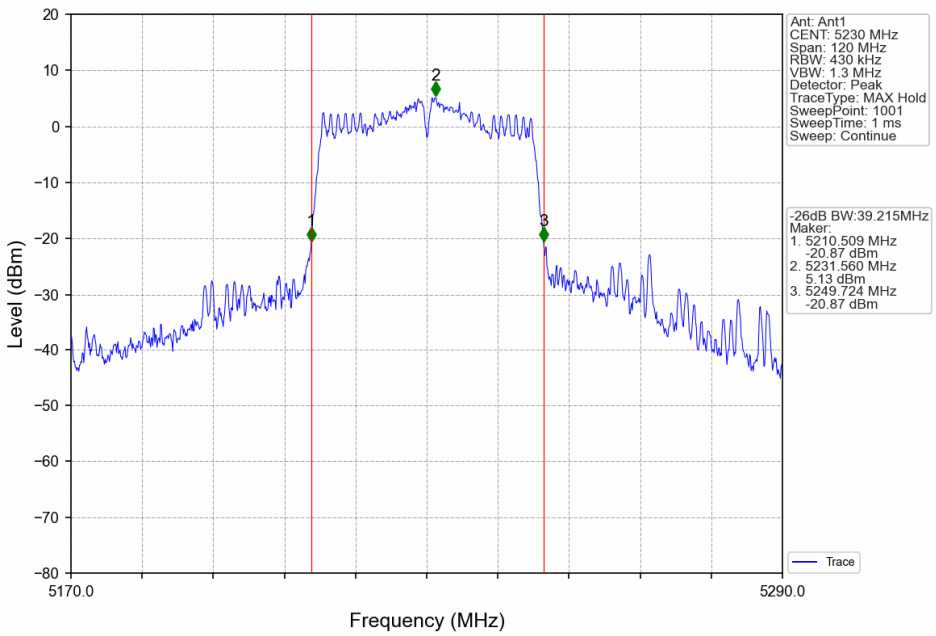
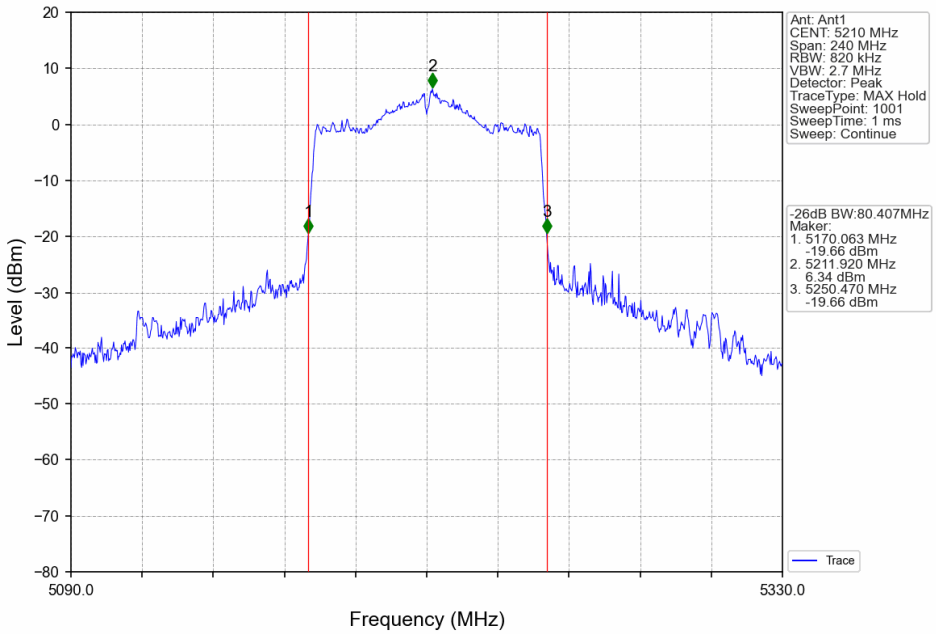
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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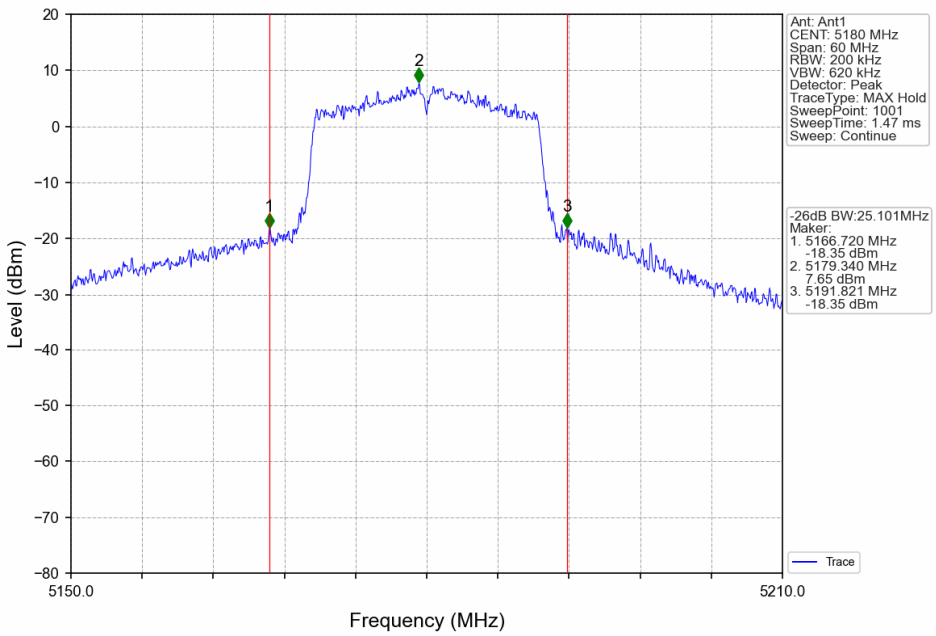
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



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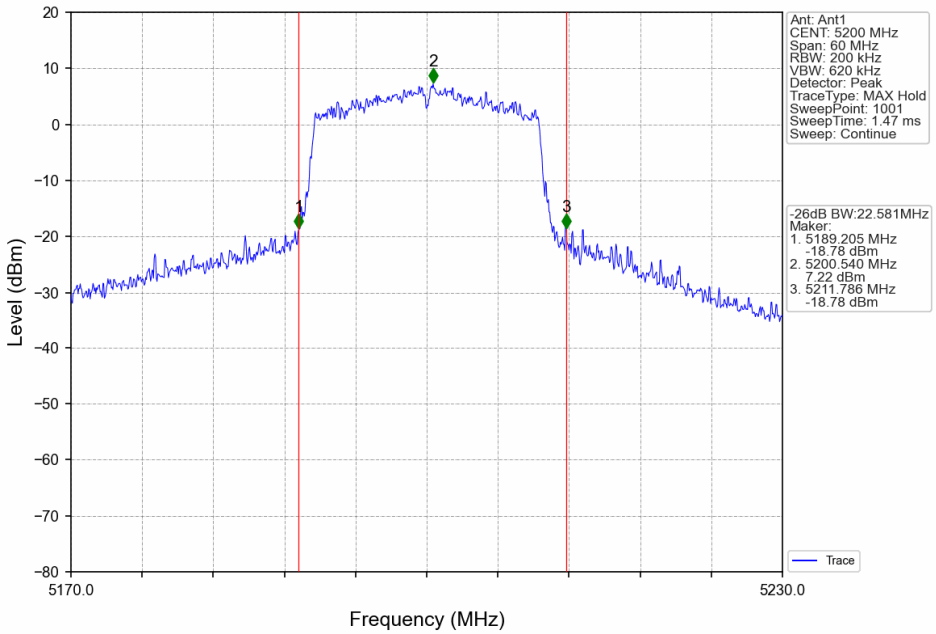

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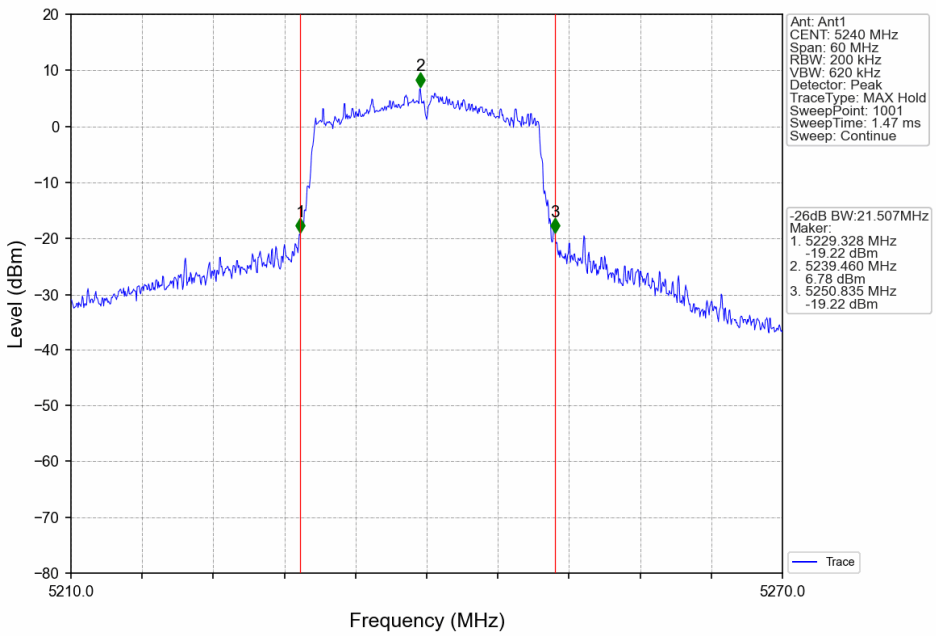
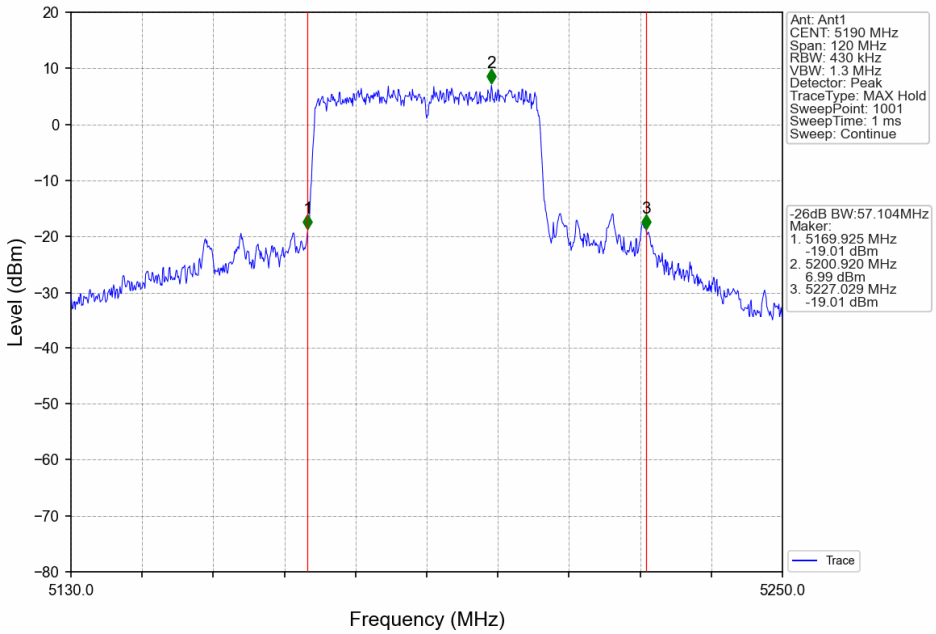
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



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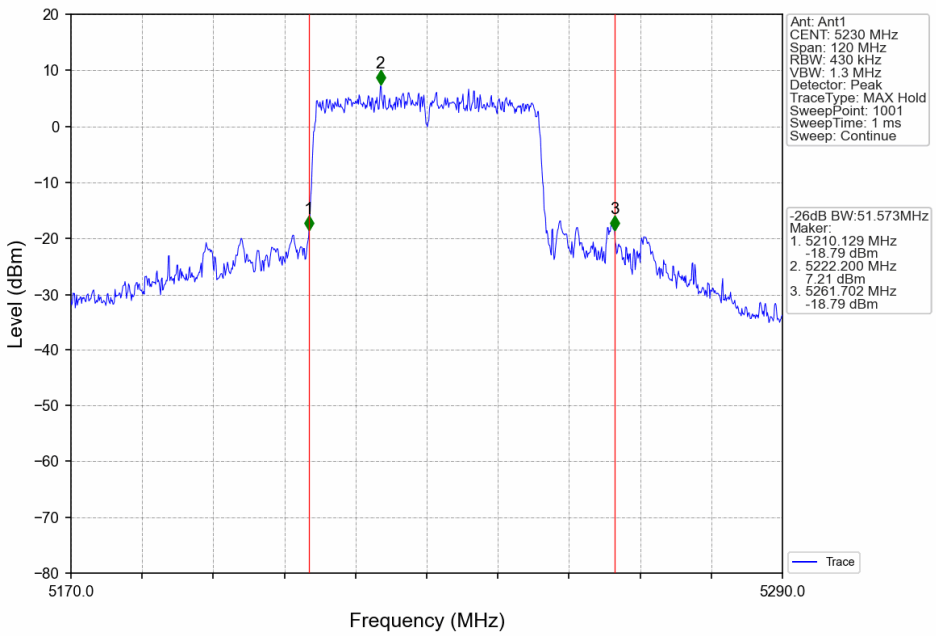
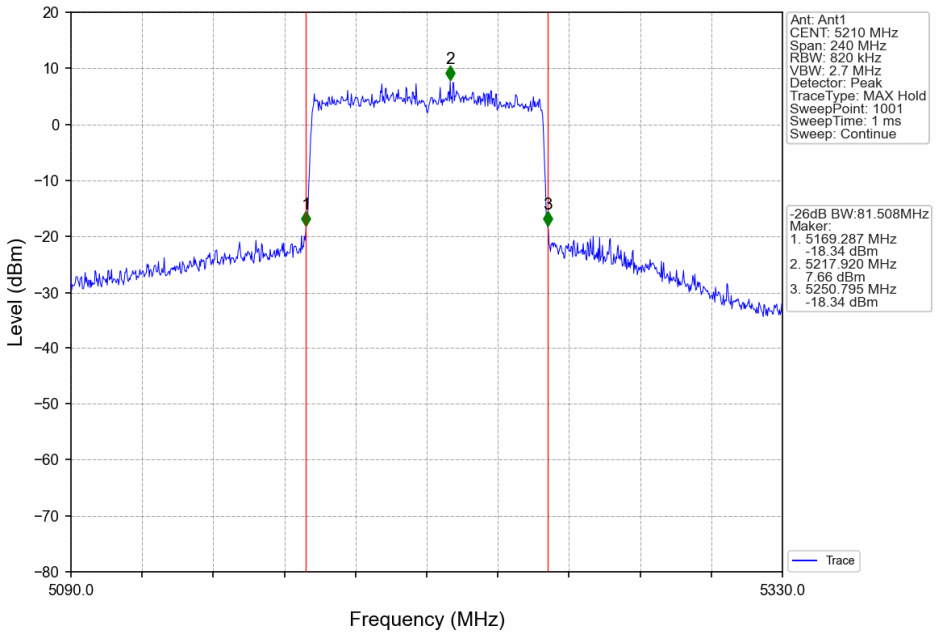
802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



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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	/	/	14.90	14.83	/	<=23.98	Pass
		5200	/	/	14.97	14.88	/	<=23.98	Pass
		5240	/	/	14.46	13.96	/	<=23.98	Pass
802.11n (HT20)	MIMO	5180	/	/	15.15	14.66	17.92	<=23.98	Pass
		5200	/	/	14.88	14.45	17.68	<=23.98	Pass
		5240	/	/	14.27	13.54	16.93	<=23.98	Pass
802.11n (HT40)	MIMO	5190	/	/	13.54	13.78	16.67	<=23.98	Pass
		5230	/	/	12.96	12.97	15.98	<=23.98	Pass
802.11ac (VHT20)	MIMO	5180	/	/	15.06	14.61	17.85	<=23.98	Pass
		5200	/	/	14.89	14.55	17.73	<=23.98	Pass
		5240	/	/	14.21	13.95	17.09	<=23.98	Pass
802.11ac (VHT40)	MIMO	5190	/	/	13.52	13.72	16.63	<=23.98	Pass
		5230	/	/	13.08	13.12	16.11	<=23.98	Pass
802.11ac (VHT80)	MIMO	5210	/	/	9.74	11.75	13.87	<=23.98	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	15.27	14.91	18.10	<=23.98	Pass
		5200	RU242	Left	15.03	14.92	17.99	<=23.98	Pass
		5240	RU242	Left	14.32	13.96	17.15	<=23.98	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	9.60	11.60	13.72	<=23.98	Pass
		5230	RU484	Left	9.21	11.13	13.29	<=23.98	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	9.31	11.42	13.50	<=23.98	Pass

Remark: ANT 1: 3.88 dBi ;ANT 2: 3.88 dBi ; Directional Gain=GANT + Array Gain=3.88dBi+0dB=3.88dBi.

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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	/	/	6.19	6.32	/	<=10.11	Pass
		5200	/	/	6.17	6.22	/	<=10.11	Pass
		5240	/	/	5.63	5.29	/	<=10.11	Pass
802.11n (HT20)	MIMO	5180	/	/	6.17	5.75	8.96	<=10.11	Pass
		5200	/	/	5.85	5.47	8.59	<=10.11	Pass
		5240	/	/	5.18	4.47	7.82	<=10.11	Pass
802.11n (HT40)	MIMO	5190	/	/	2.08	2.20	5.06	<=10.11	Pass
		5230	/	/	1.59	1.38	4.47	<=10.11	Pass
802.11ac (VHT20)	MIMO	5180	/	/	6.14	5.75	8.83	<=10.11	Pass
		5200	/	/	5.95	5.65	8.81	<=10.11	Pass
		5240	/	/	5.36	4.92	8.03	<=10.11	Pass
802.11ac (VHT40)	MIMO	5190	/	/	1.98	2.19	5.02	<=10.11	Pass
		5230	/	/	1.44	1.67	4.54	<=10.11	Pass
802.11ac (VHT80)	MIMO	5210	/	/	-4.62	-2.59	-0.56	<=10.11	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	5.03	4.38	7.64	<=10.11	Pass
		5200	RU242	Left	4.71	4.52	7.54	<=10.11	Pass
		5240	RU242	Left	3.99	3.52	6.74	<=10.11	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	-5.16	-3.02	-1.09	<=10.11	Pass
		5230	RU484	Left	-5.54	-3.54	-1.50	<=10.11	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	-8.42	-6.16	-4.22	<=10.11	Pass

Remark: ANT 1: 3.88 dBi ;ANT 2: 3.88 dBi ; Directional Gain=GANT + Array Gain=3.88dBi+10log2=6.89dBi.

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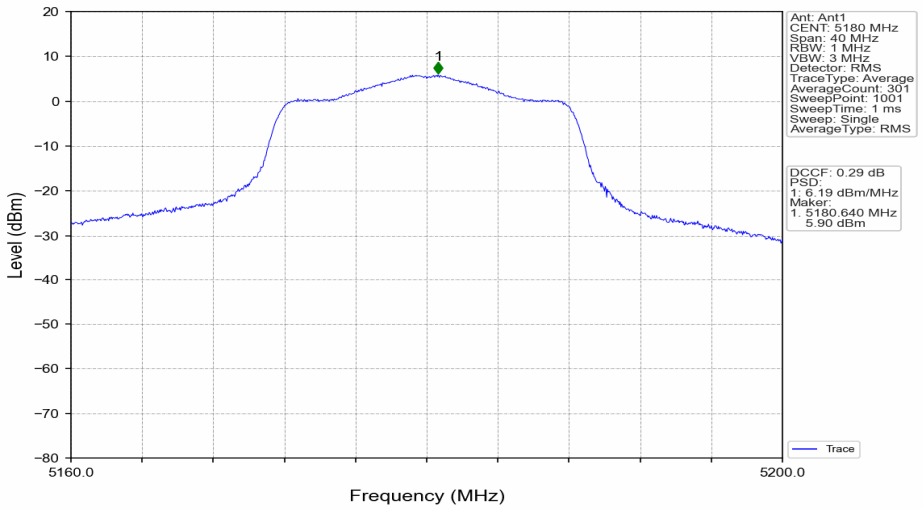
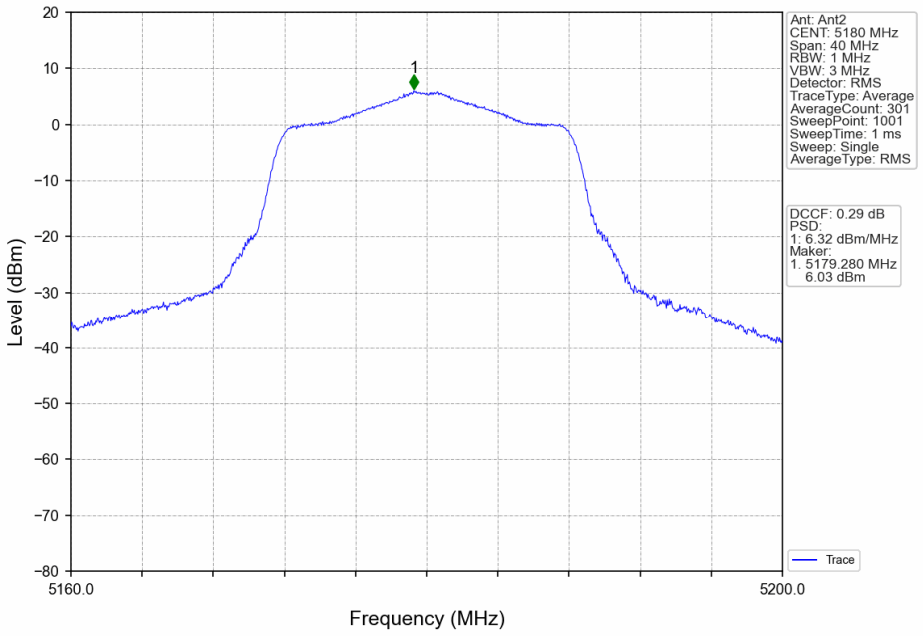
4.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_LCH_5180MHz_Ant2_NTNV



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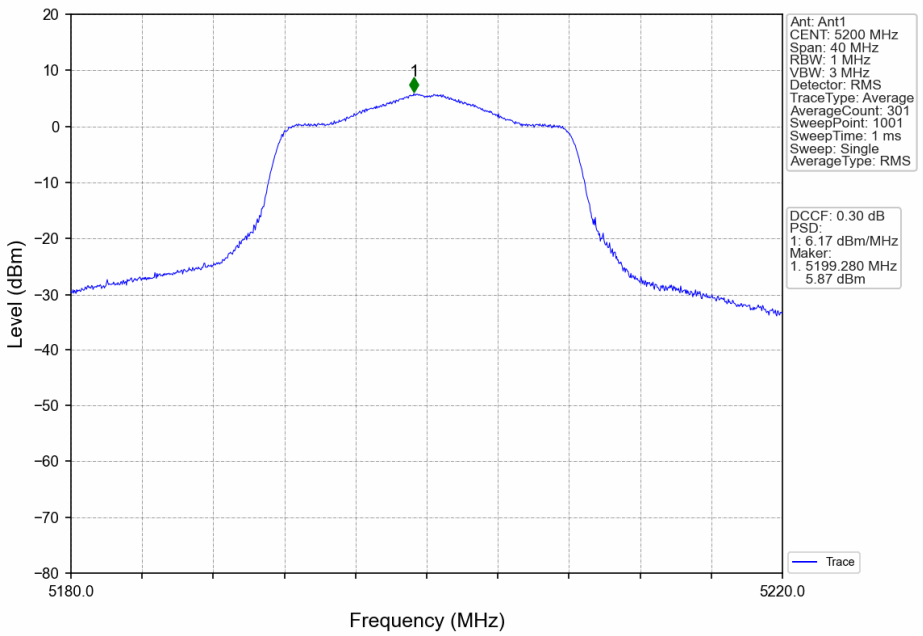
802.11a_MCH_5200MHz_Ant1_NTNV



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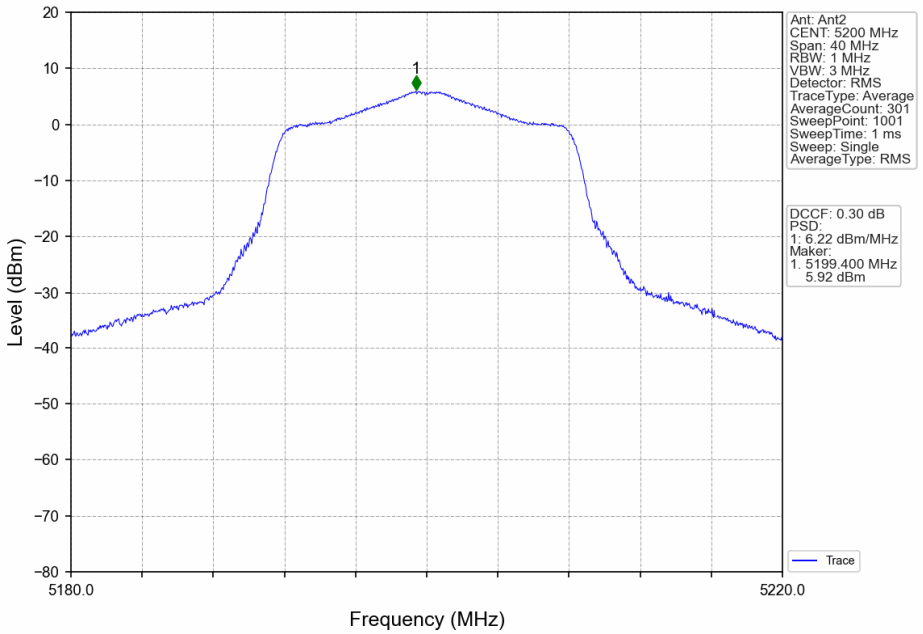

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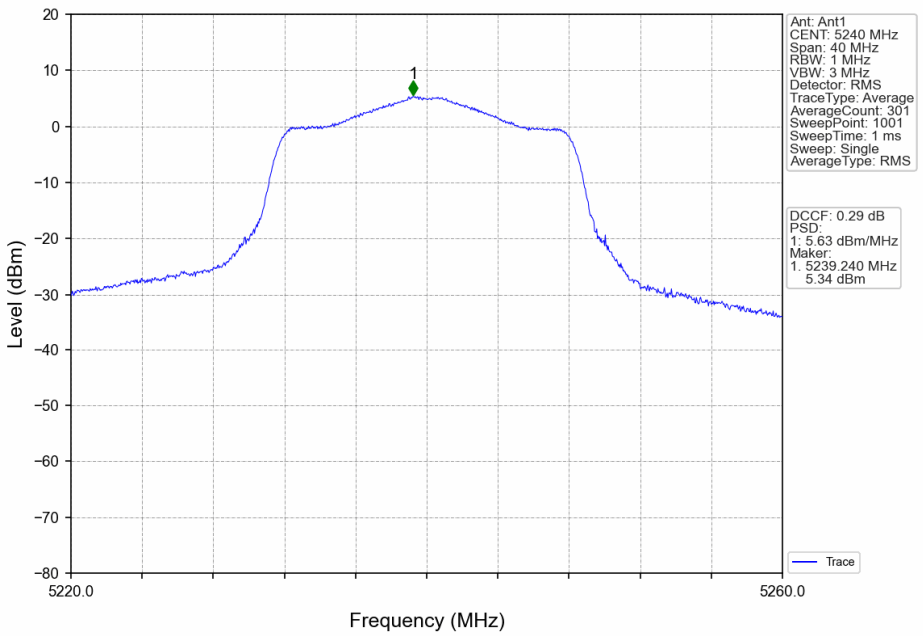

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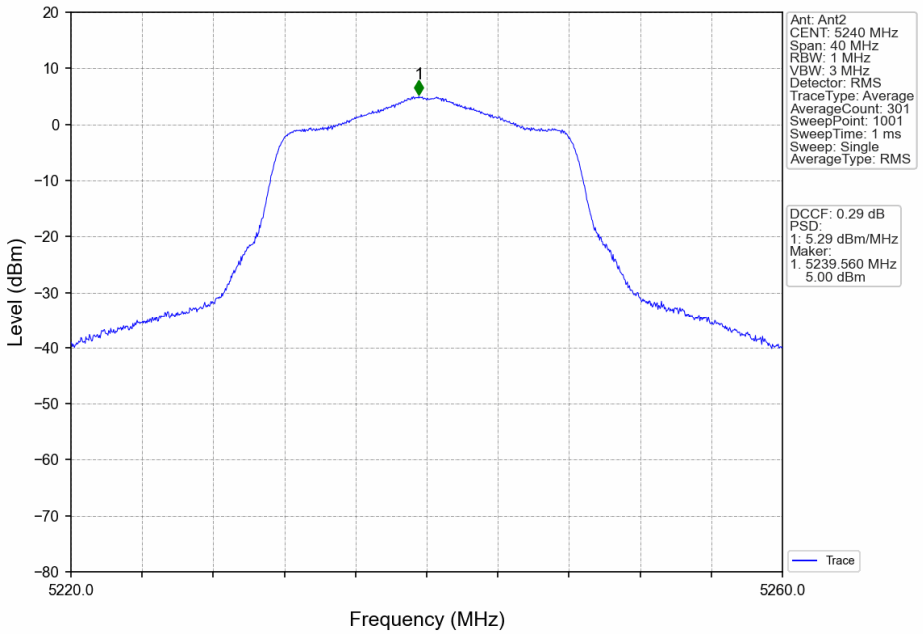

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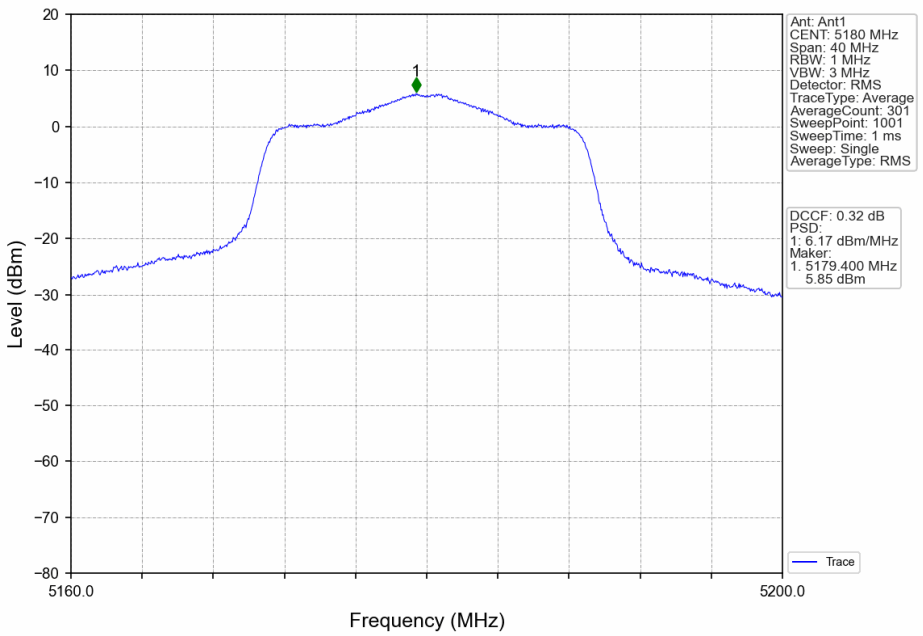
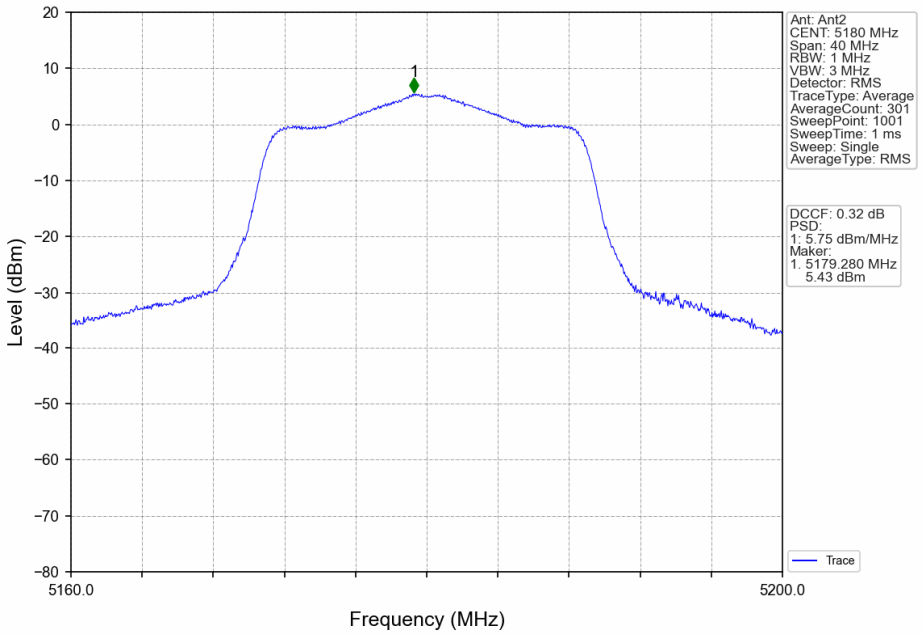


802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



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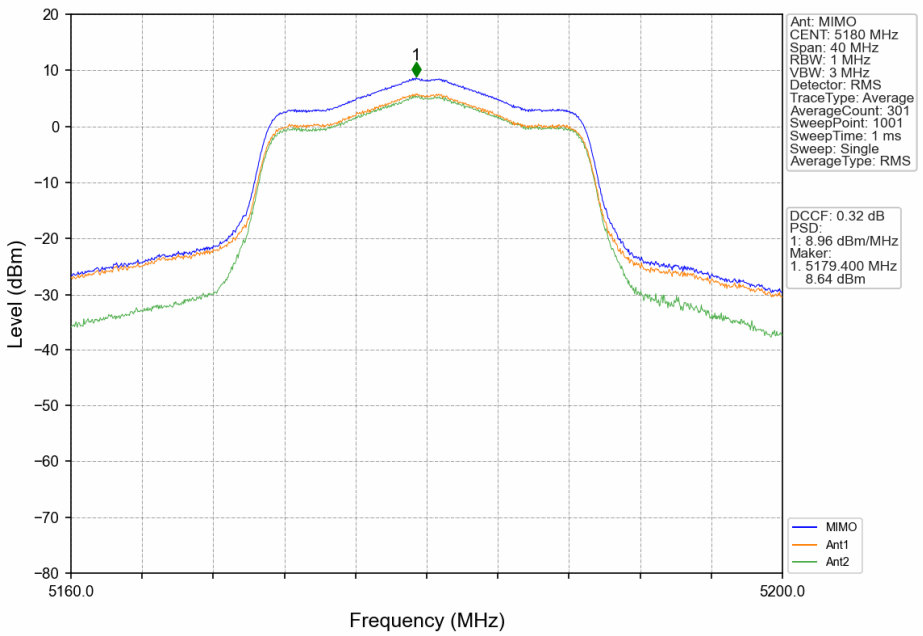
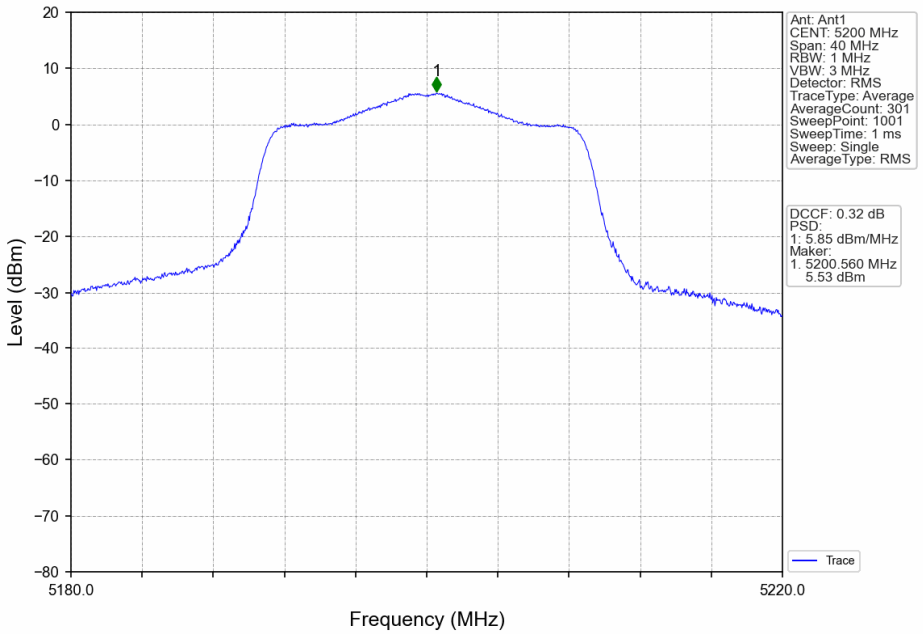


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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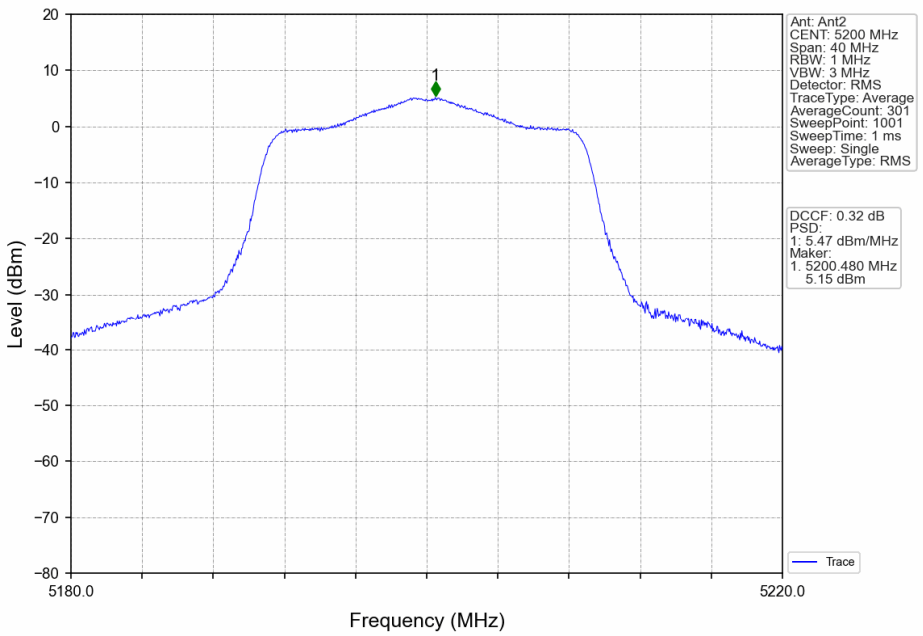
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



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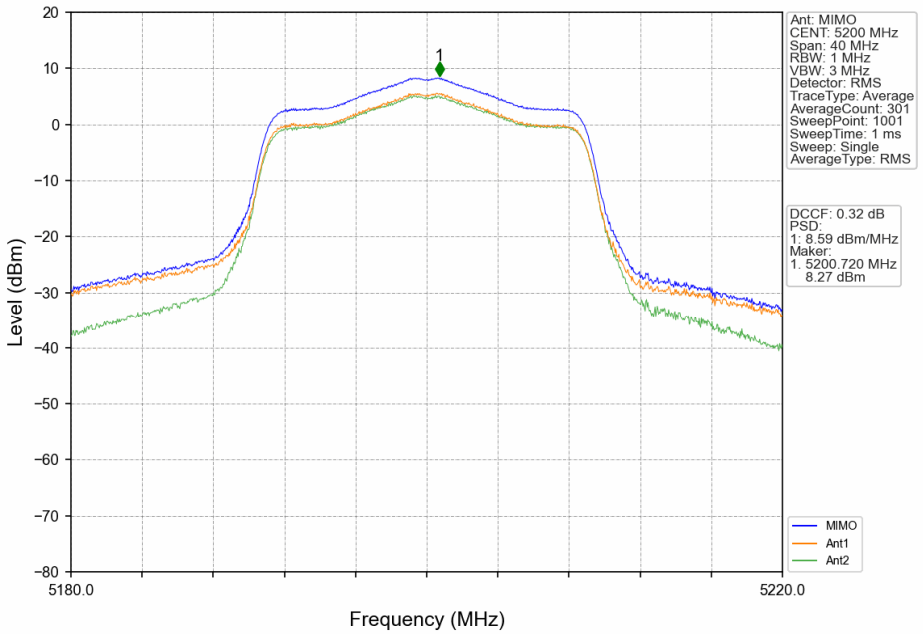

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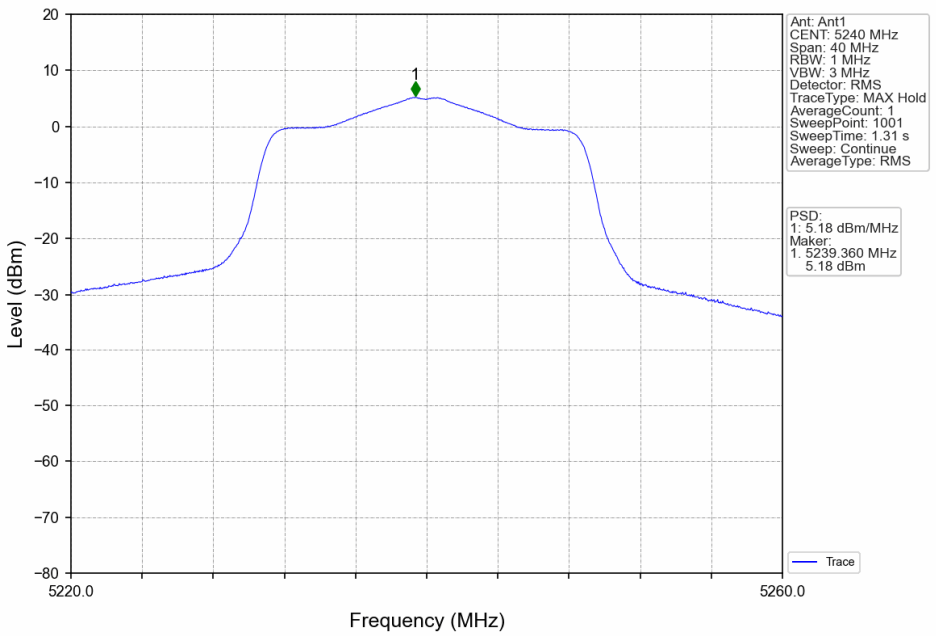
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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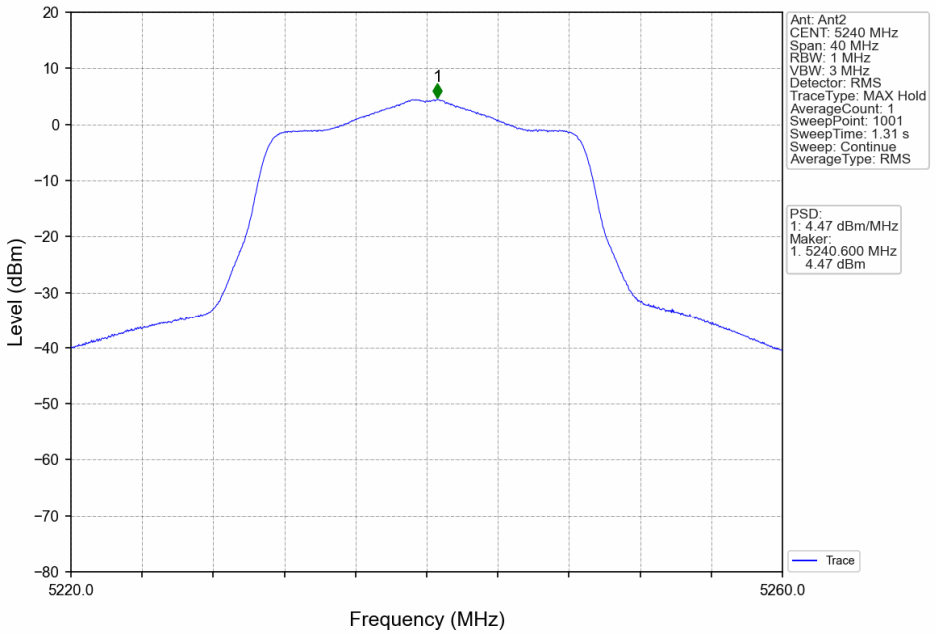

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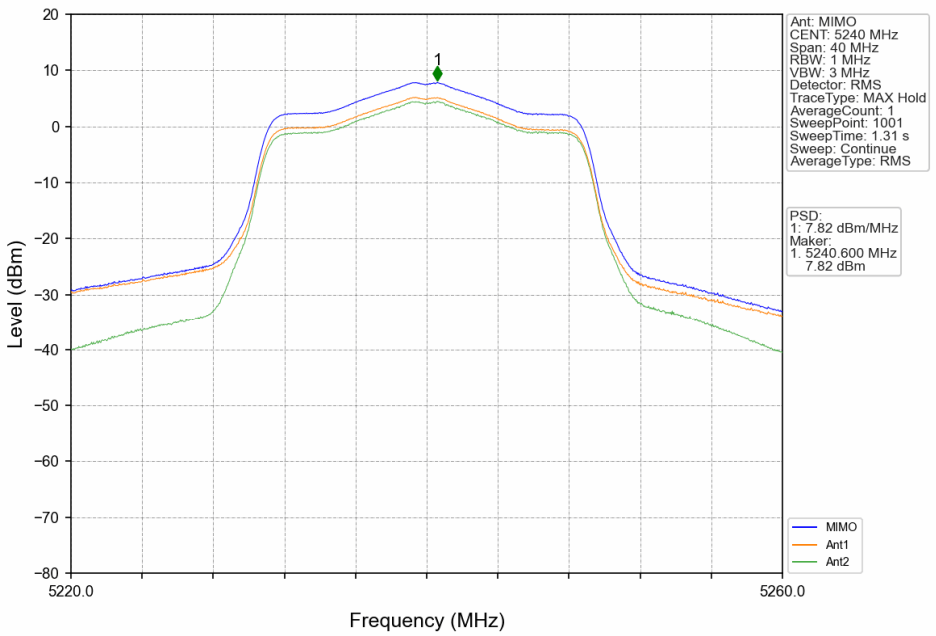
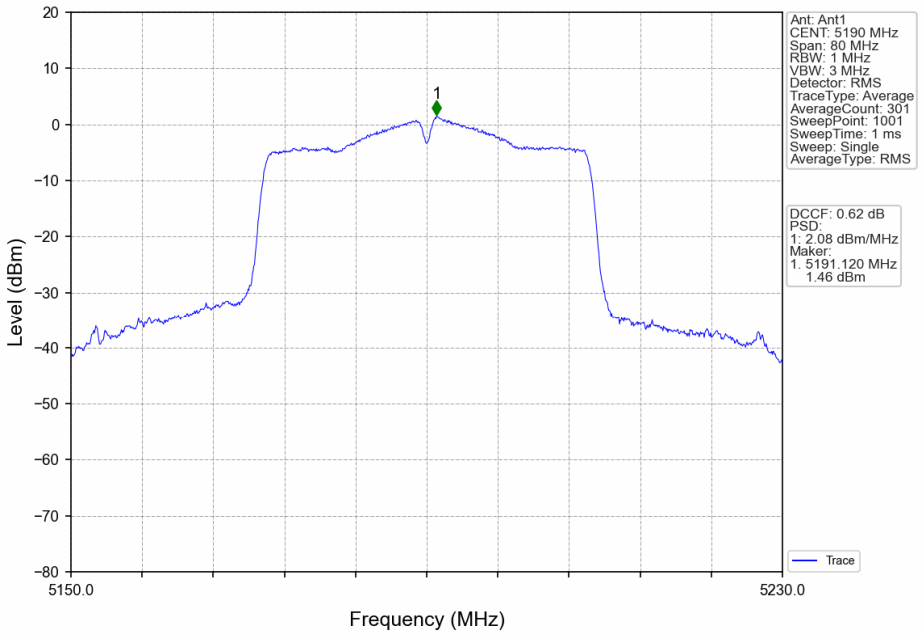
802.11n(HT20)_HCH_5240MHz_MIMO_NTNV



802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



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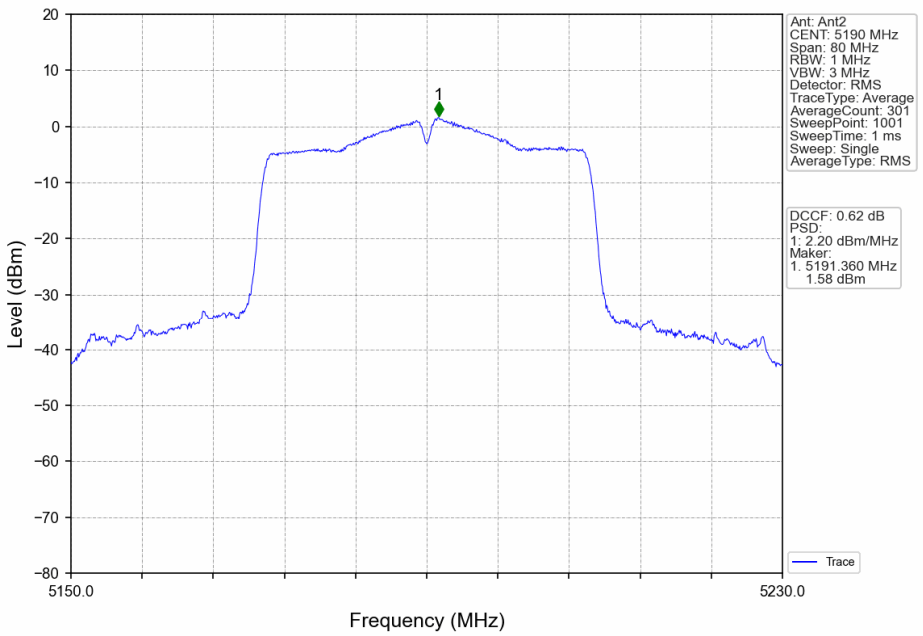
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



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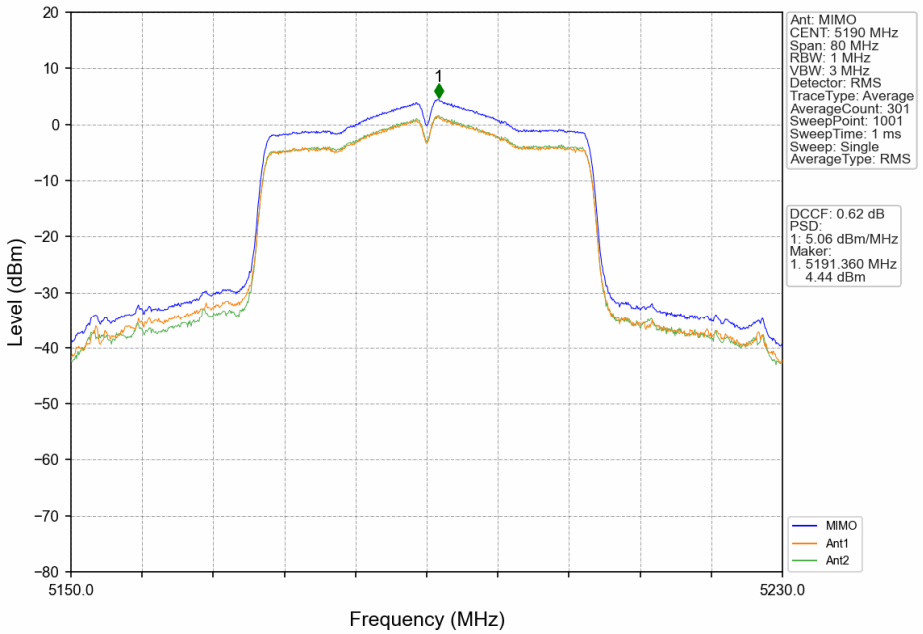

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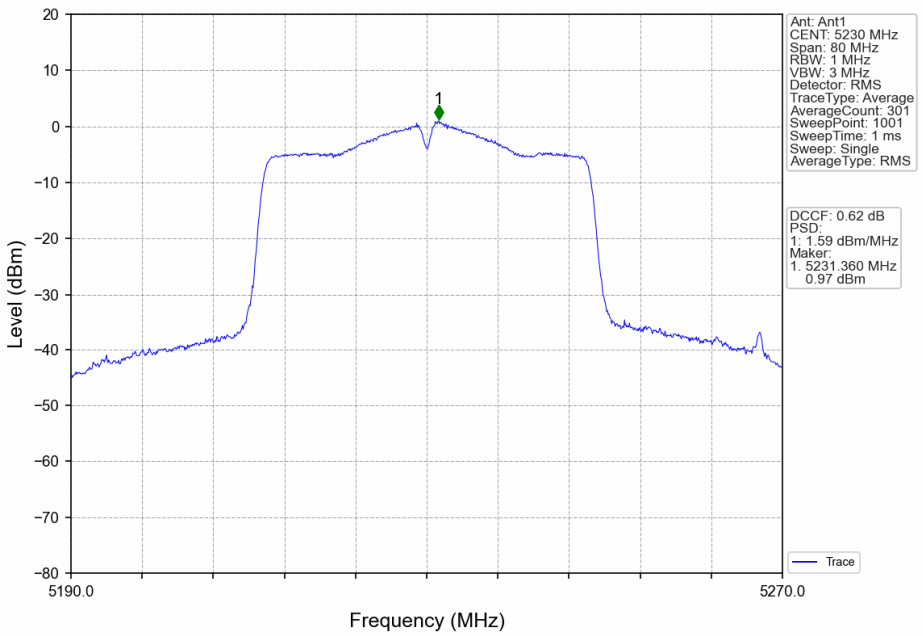
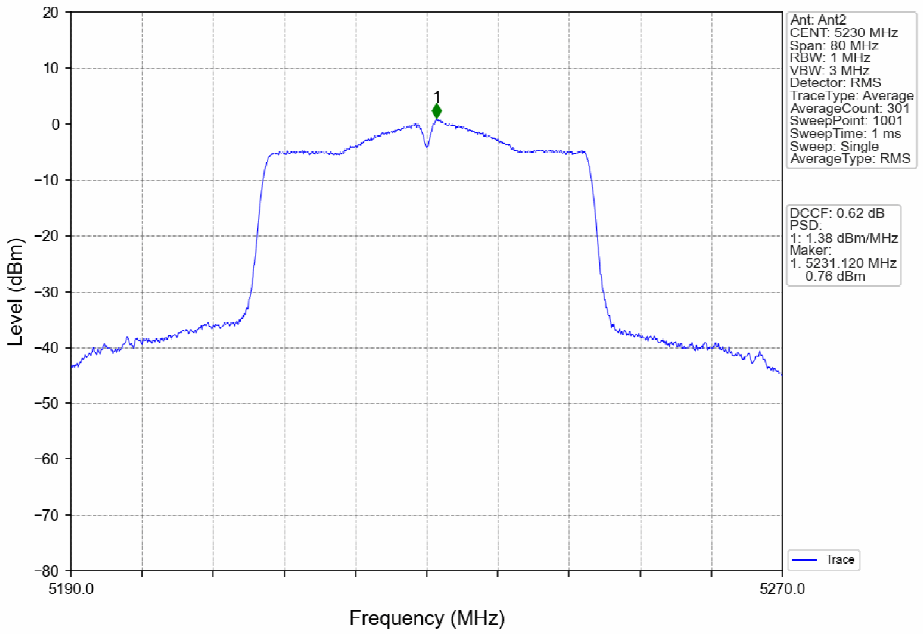
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



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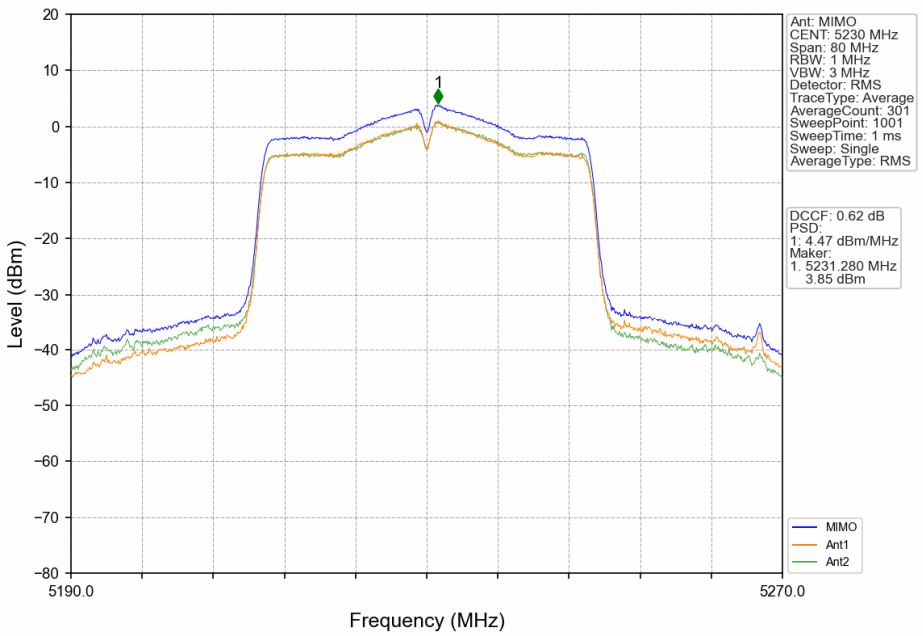
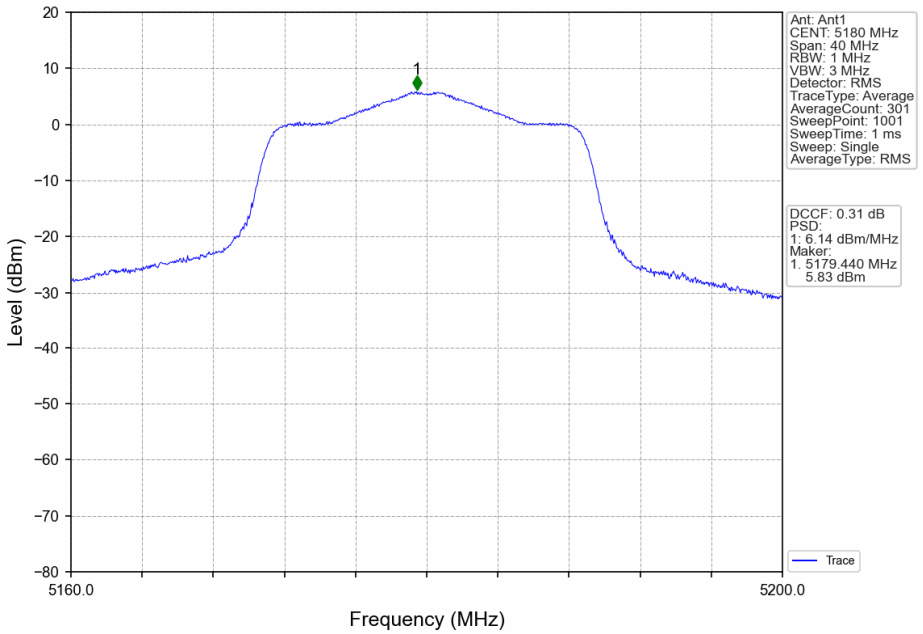
802.11n(HT40)_HCH_5230MHz_MIMO_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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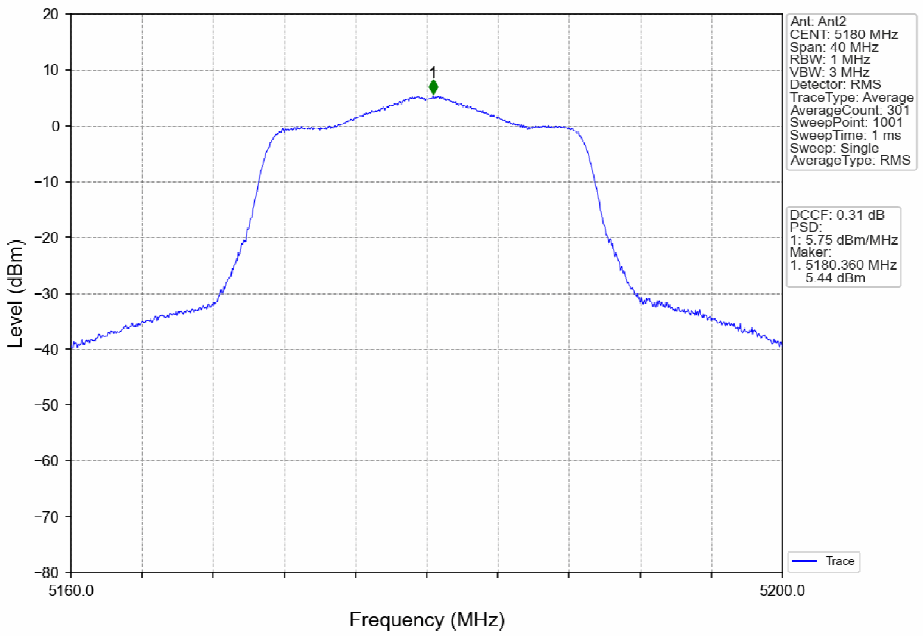
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



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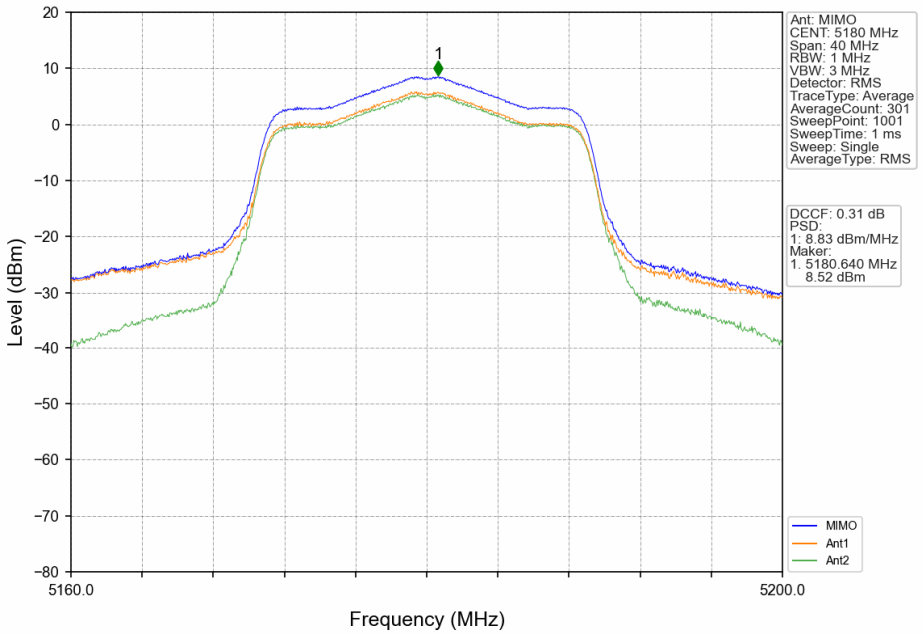

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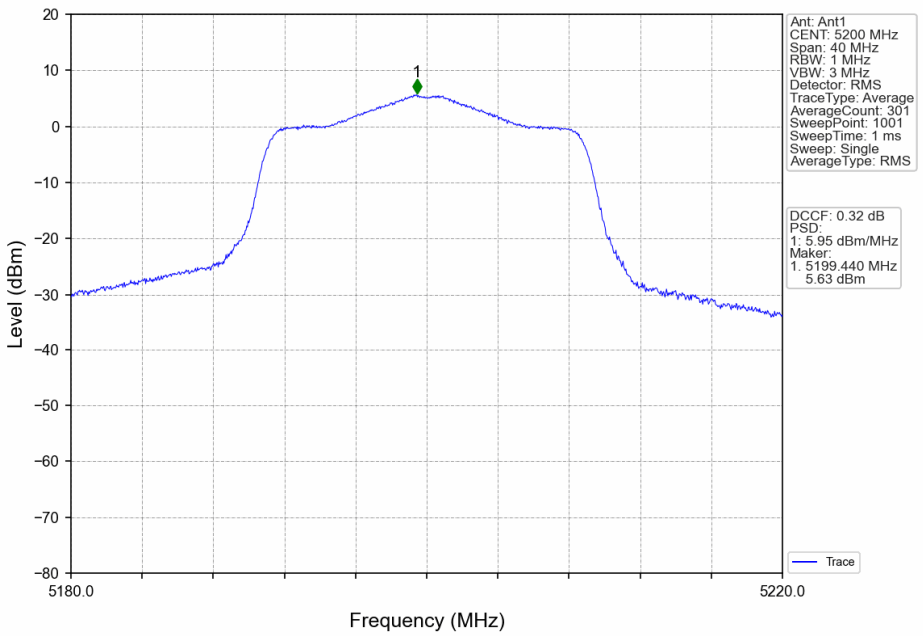

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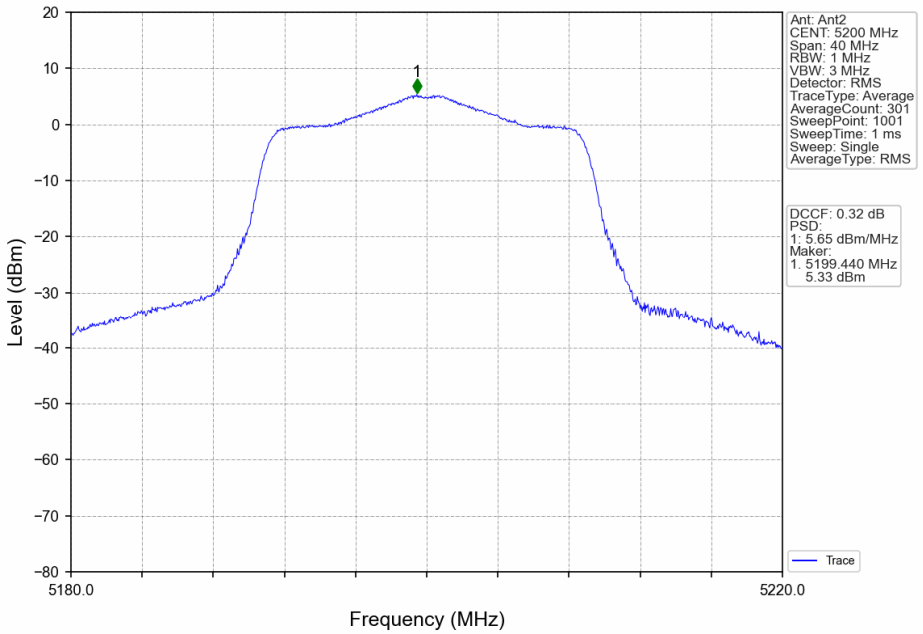

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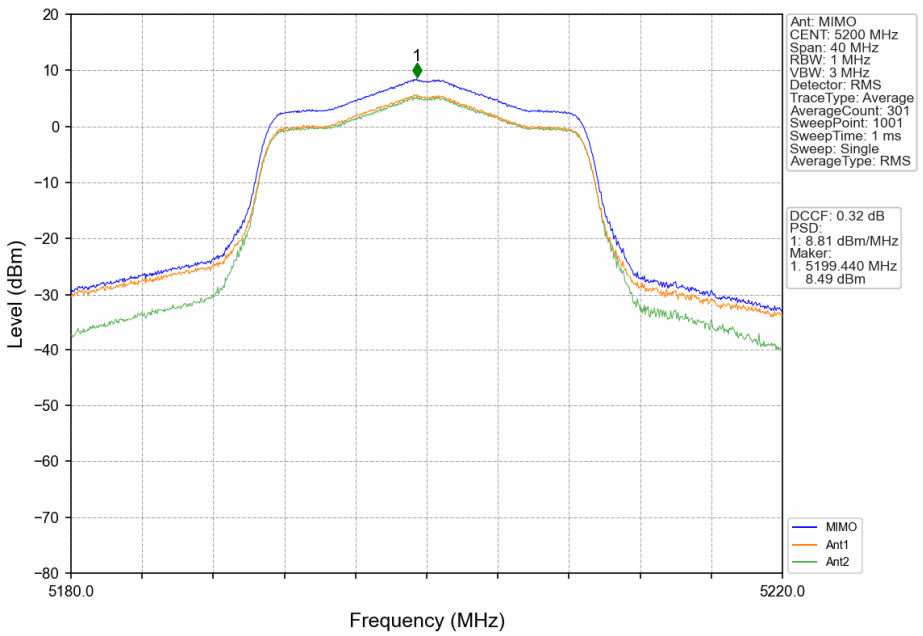

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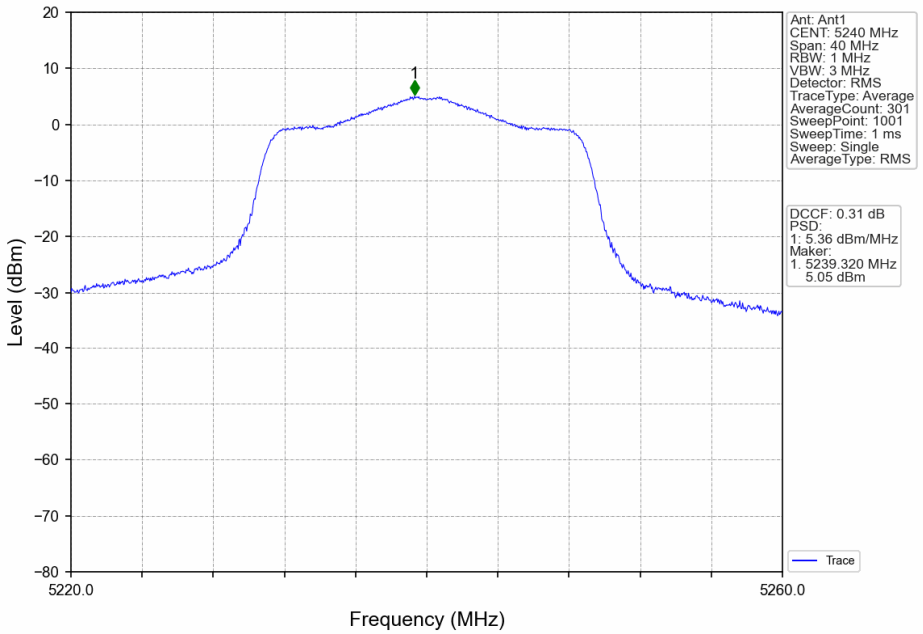

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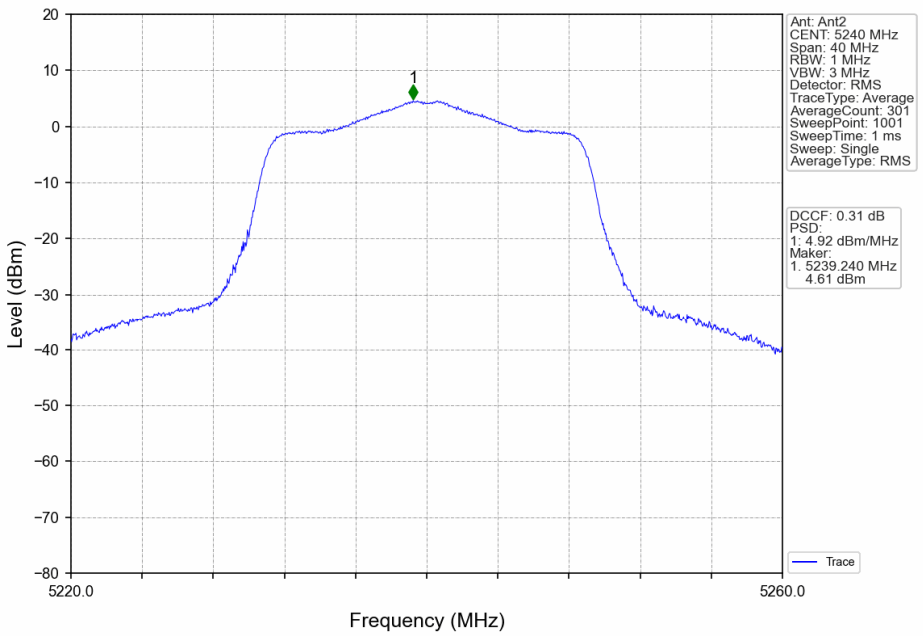

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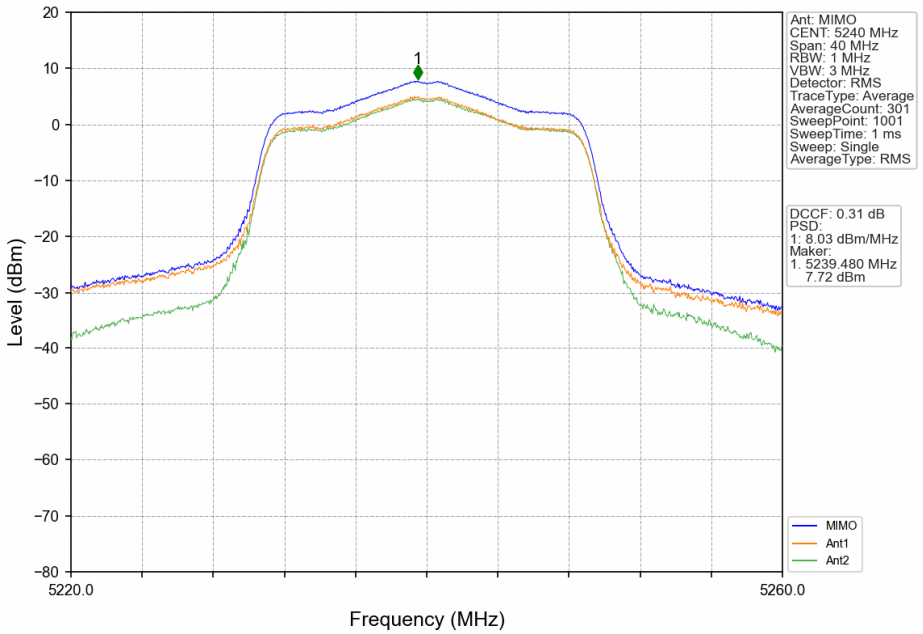

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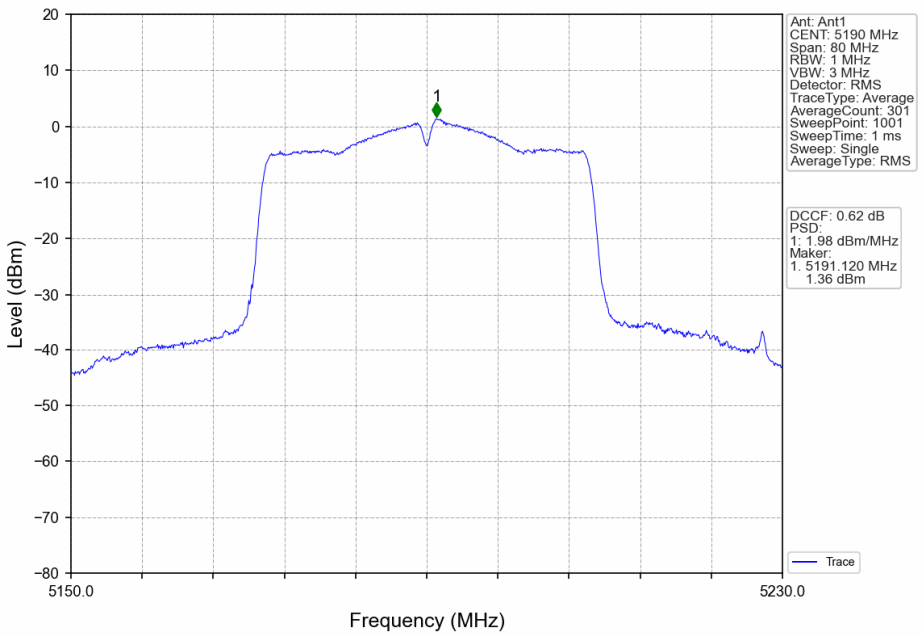
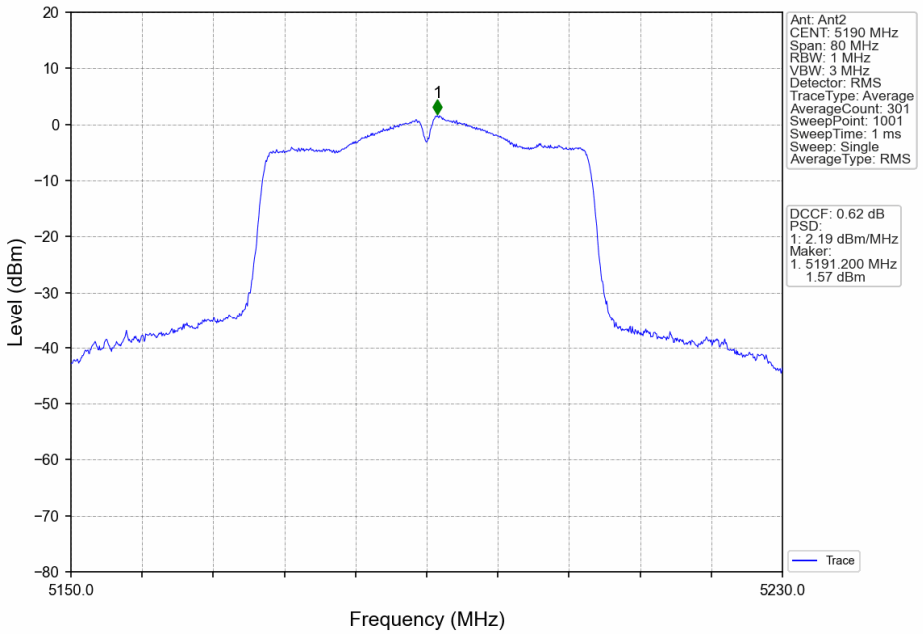
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



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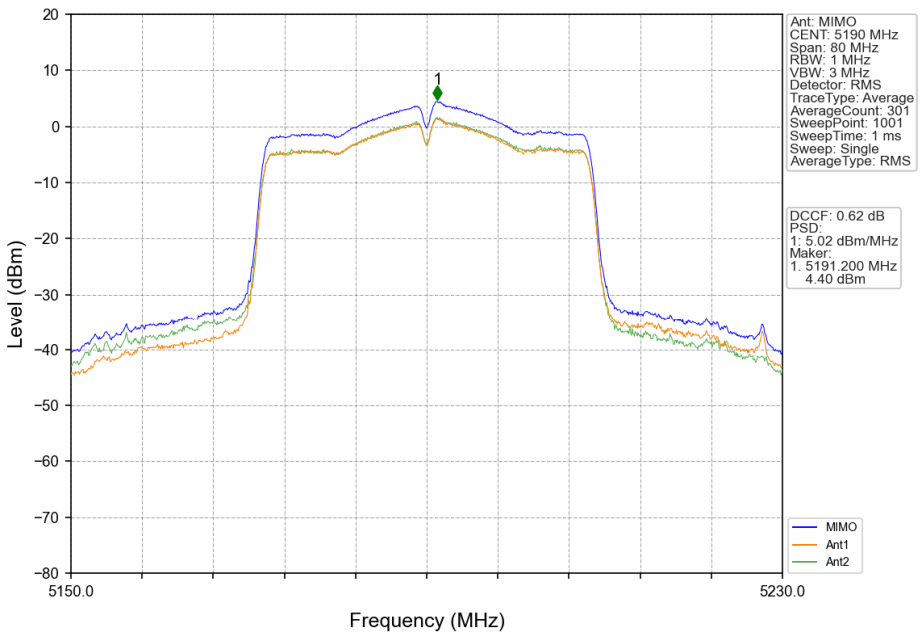
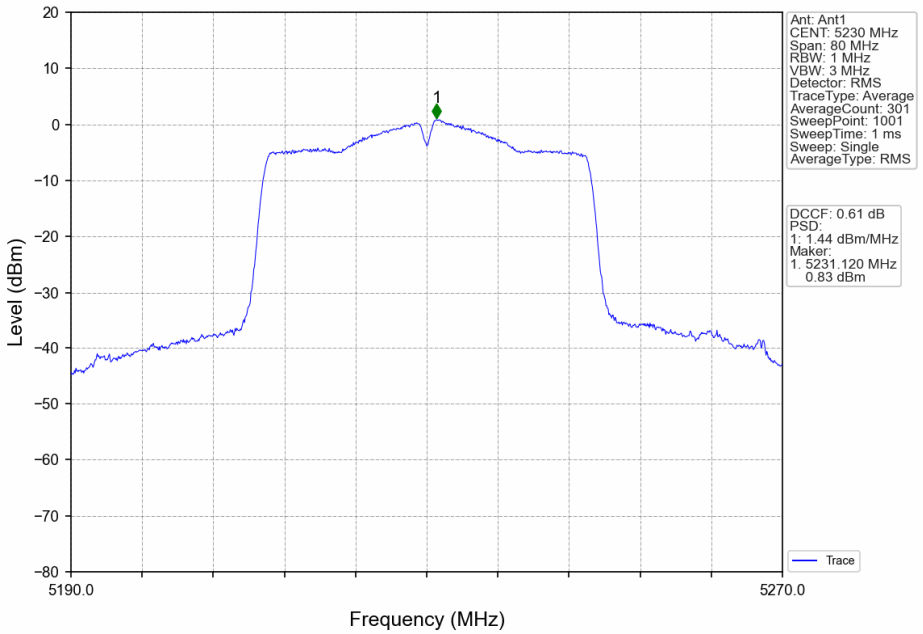
802.11ac(VHT40)_LCH_5190MHz_MIMO_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



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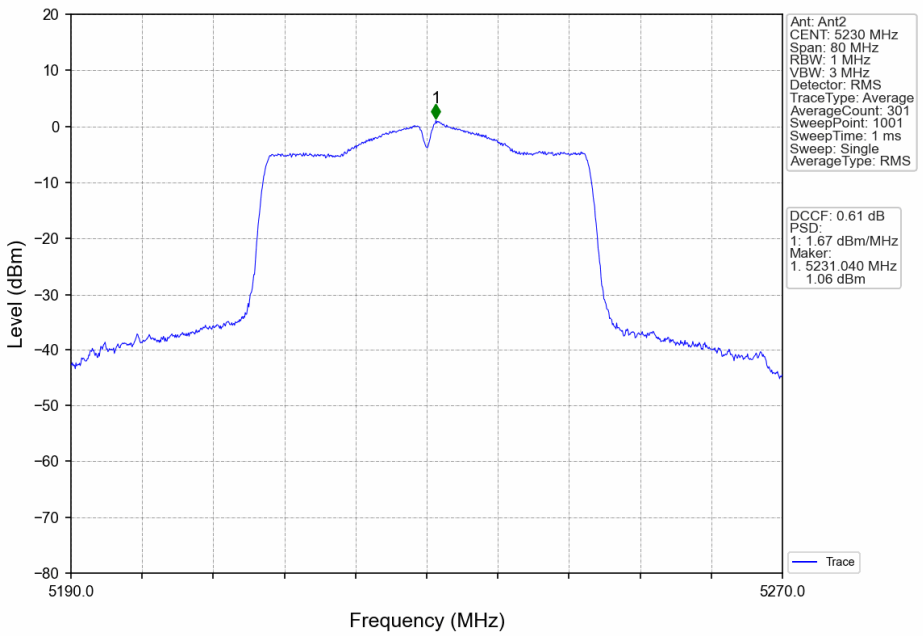
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



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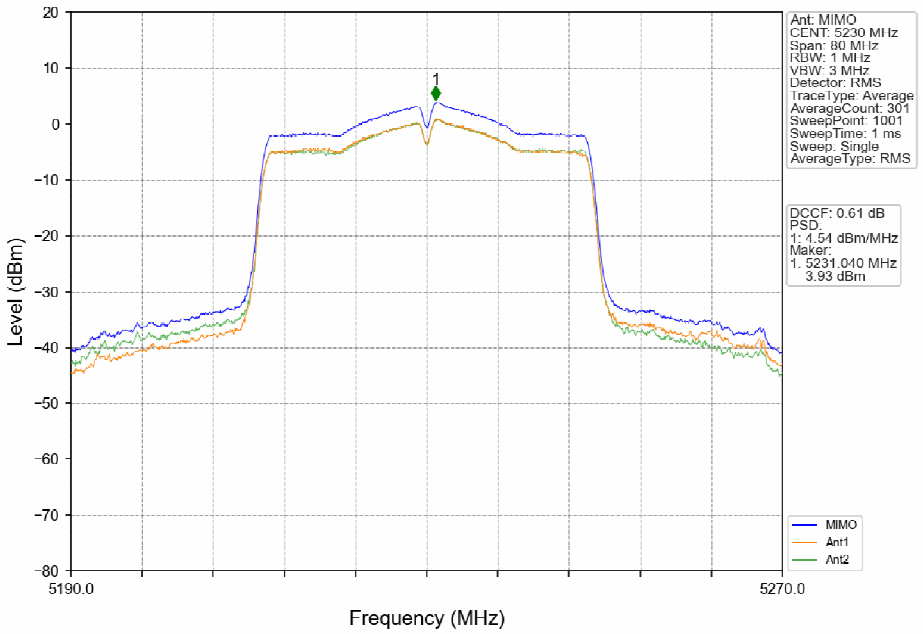

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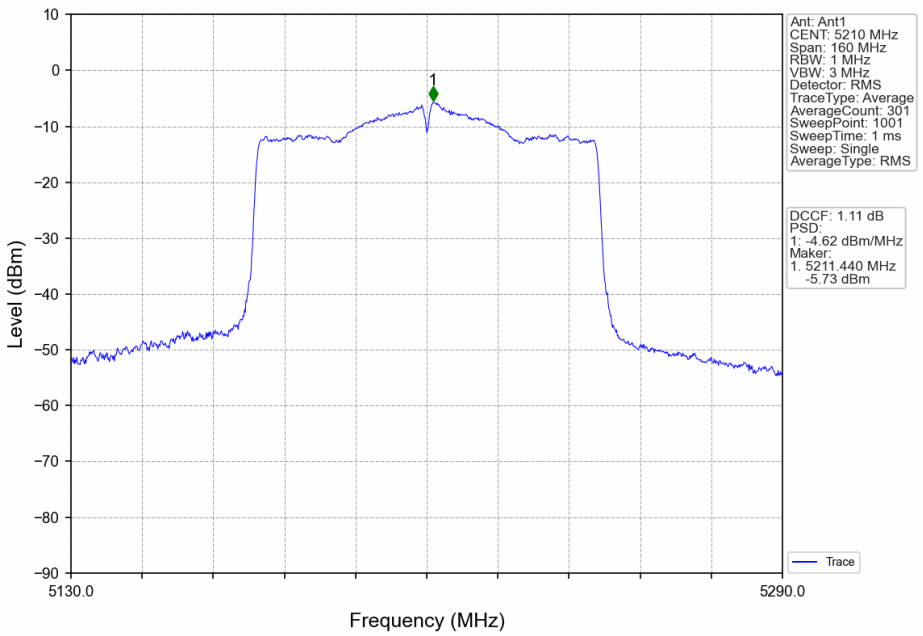
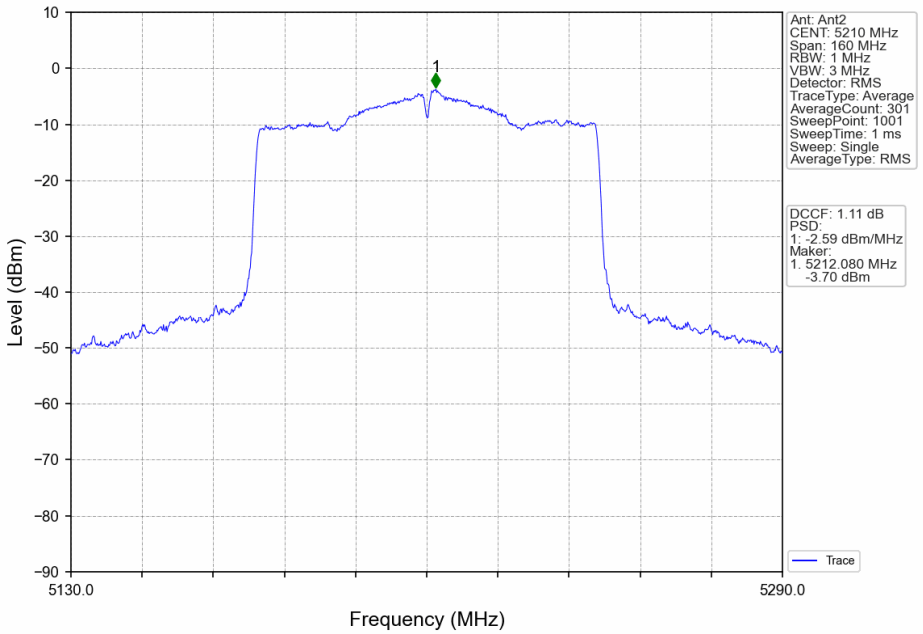
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



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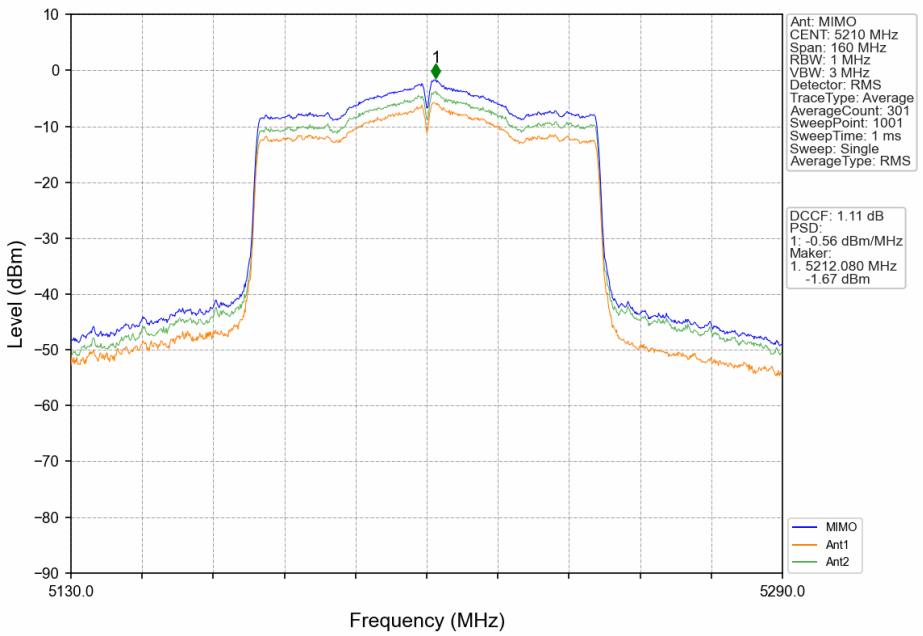
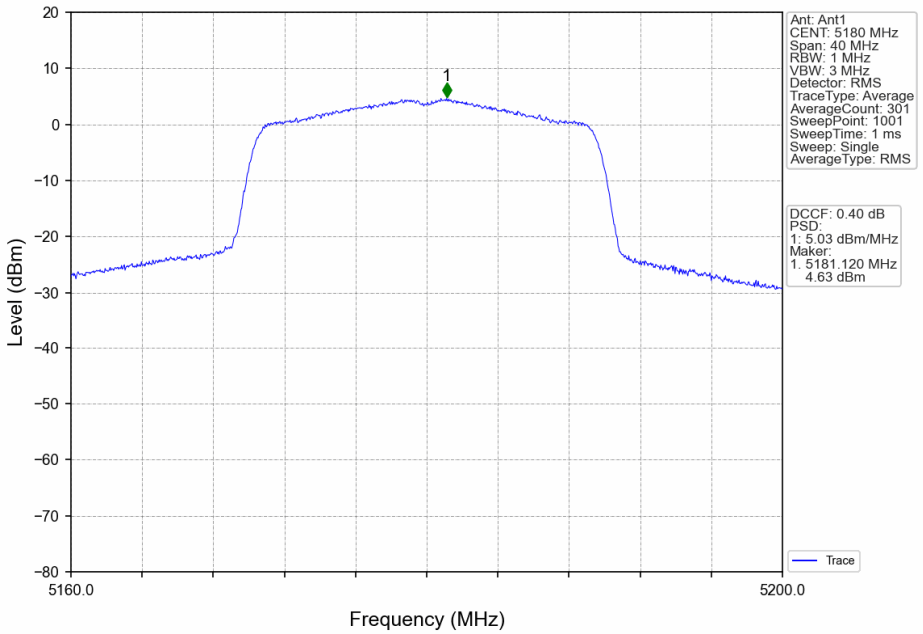
802.11ac(VHT80)_MCH_5210MHz_MIMO_NTNV



802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



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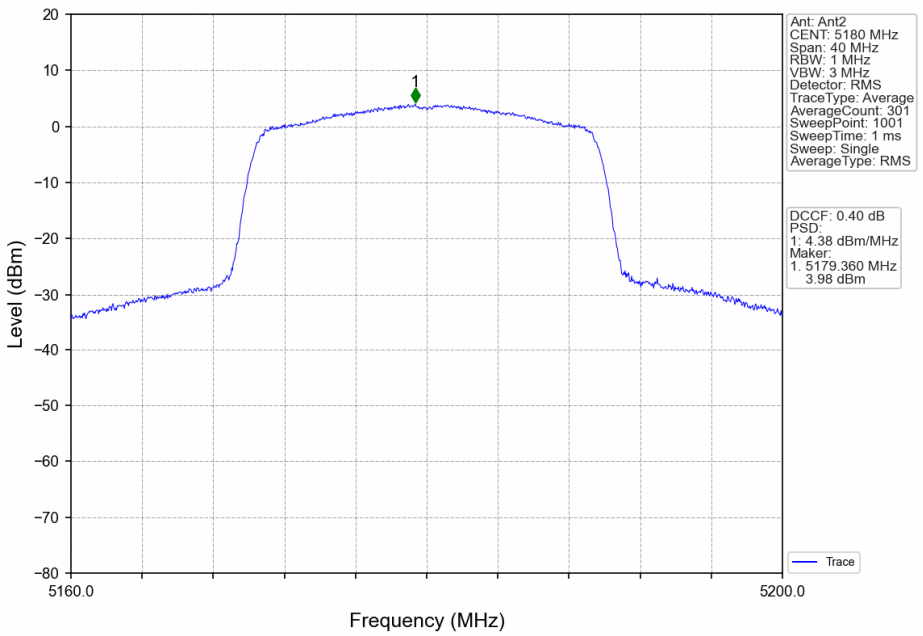
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant2_NTNV



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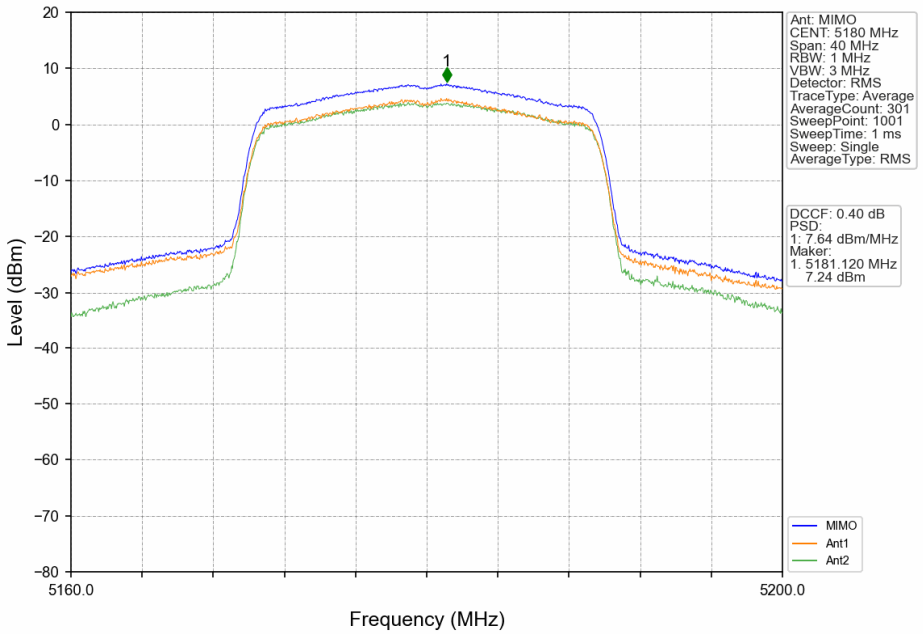

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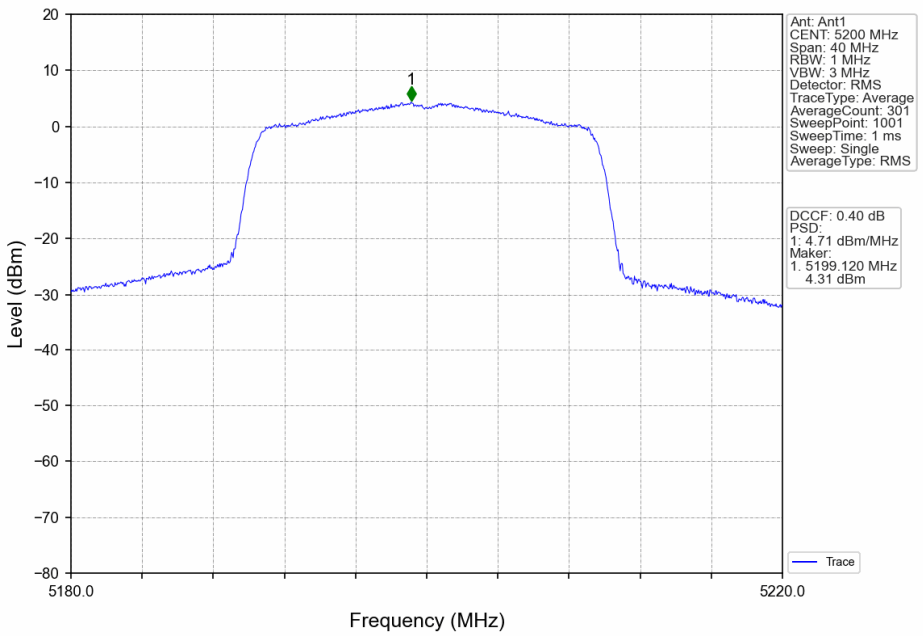
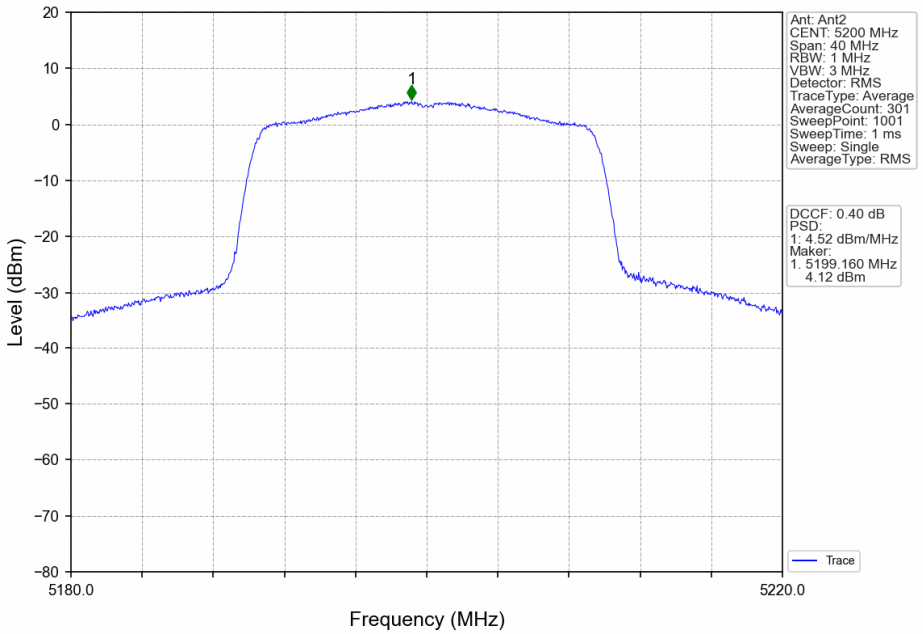
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant2_NTNV



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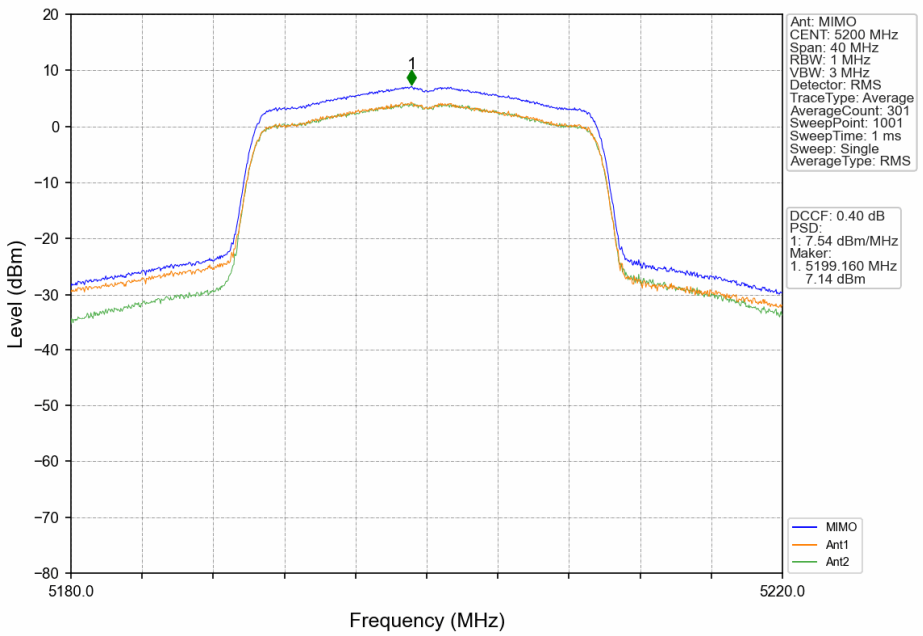
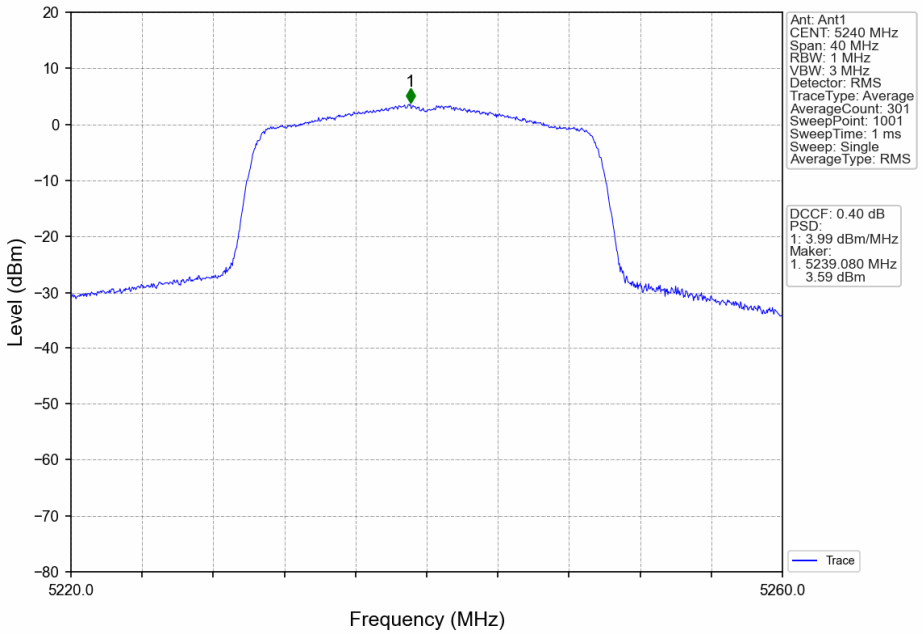
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_MIMO_NTNV



802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



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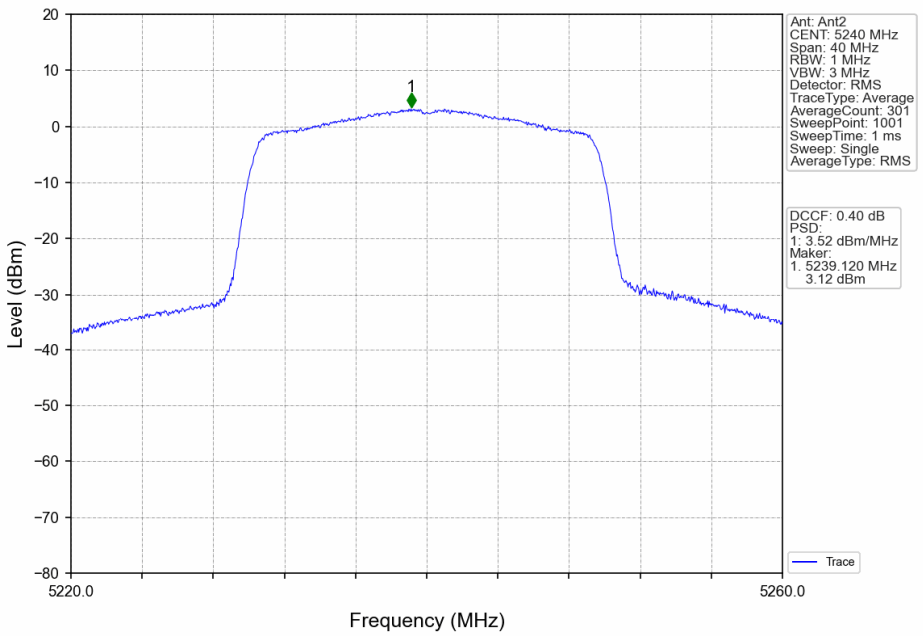
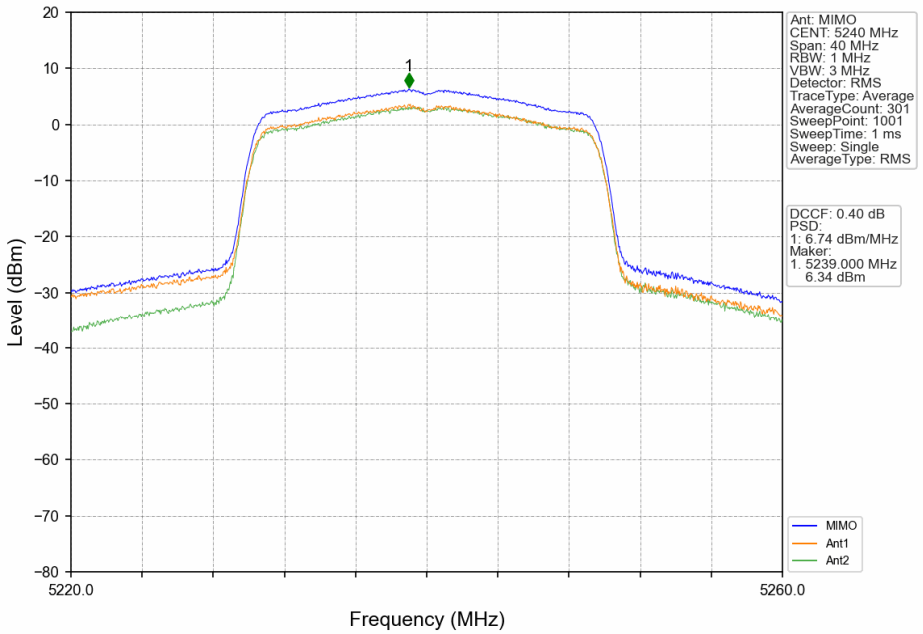
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant2_NTNV



802.11ax(HEW20)_HCH_5240MHz_RU242_Left_MIMO_NTNV



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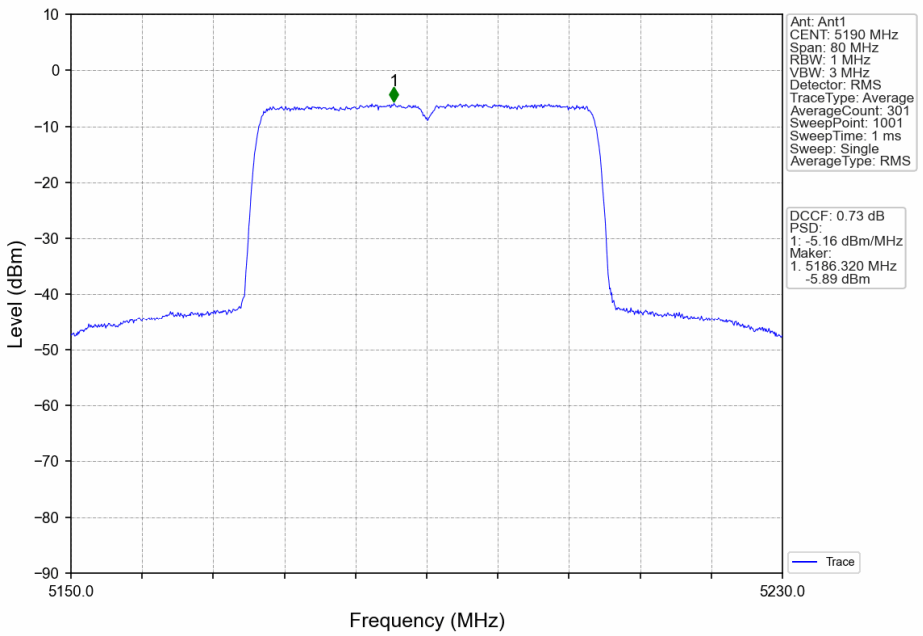
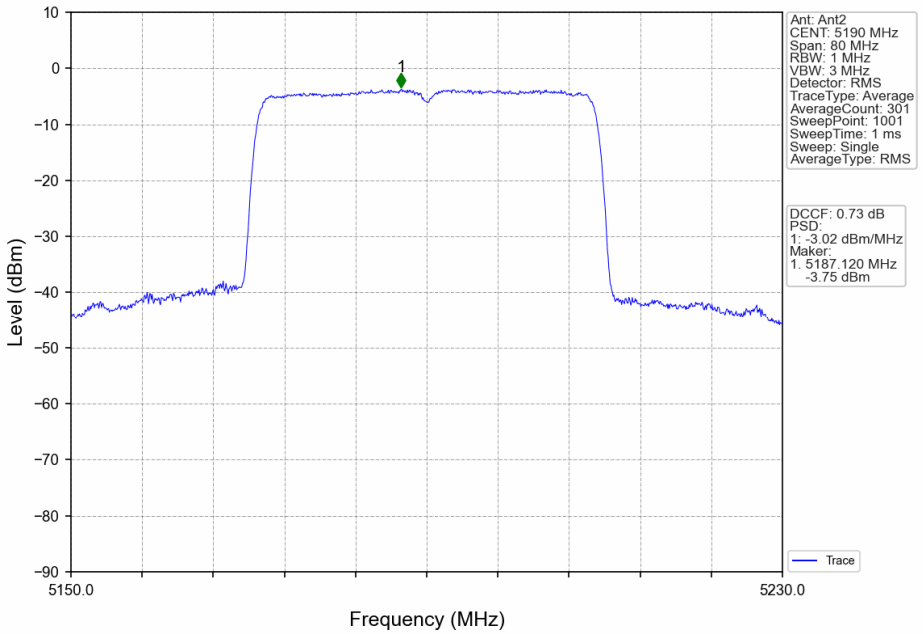
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant2_NTNV



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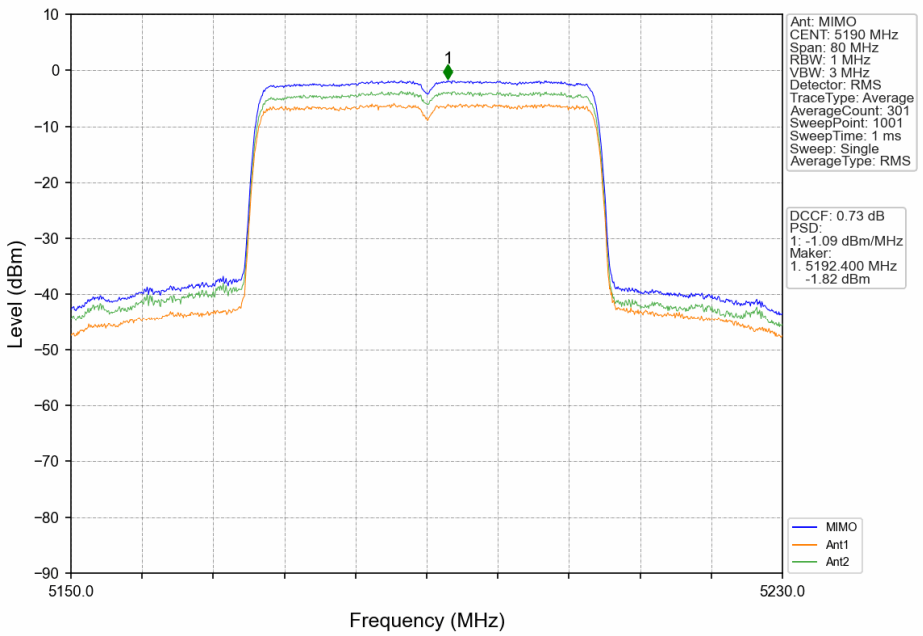
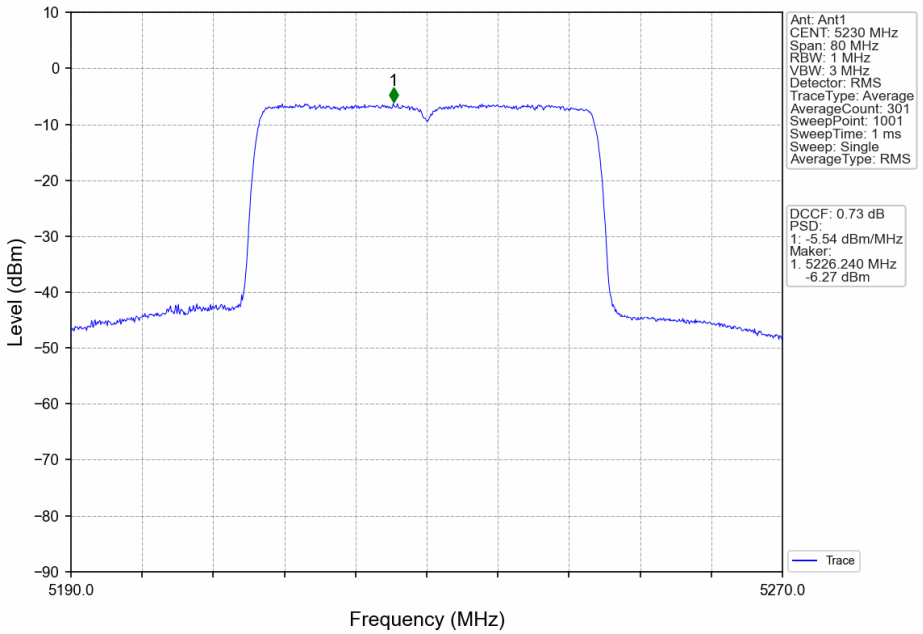
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_MIMO_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



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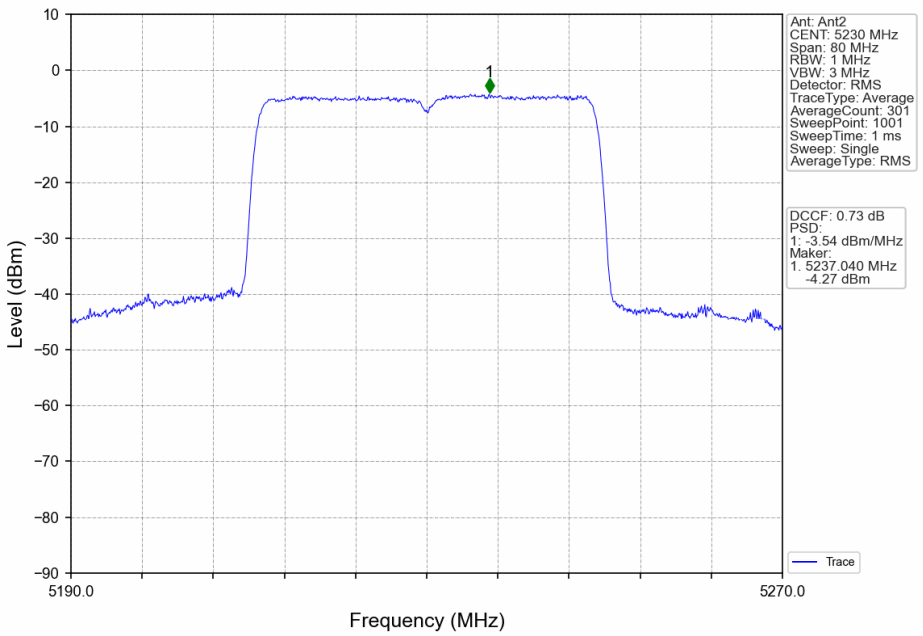
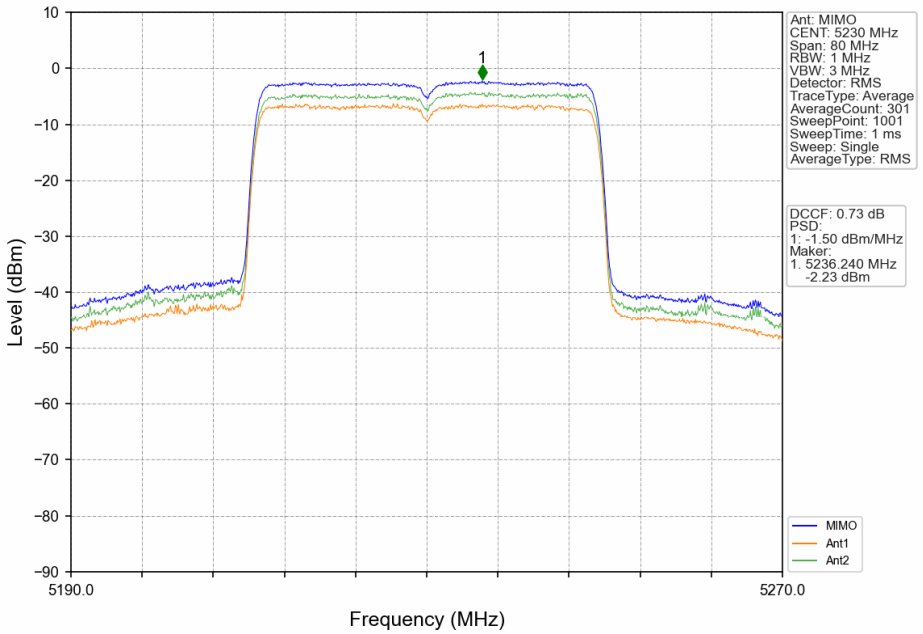
802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant2_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_MIMO_NTNV



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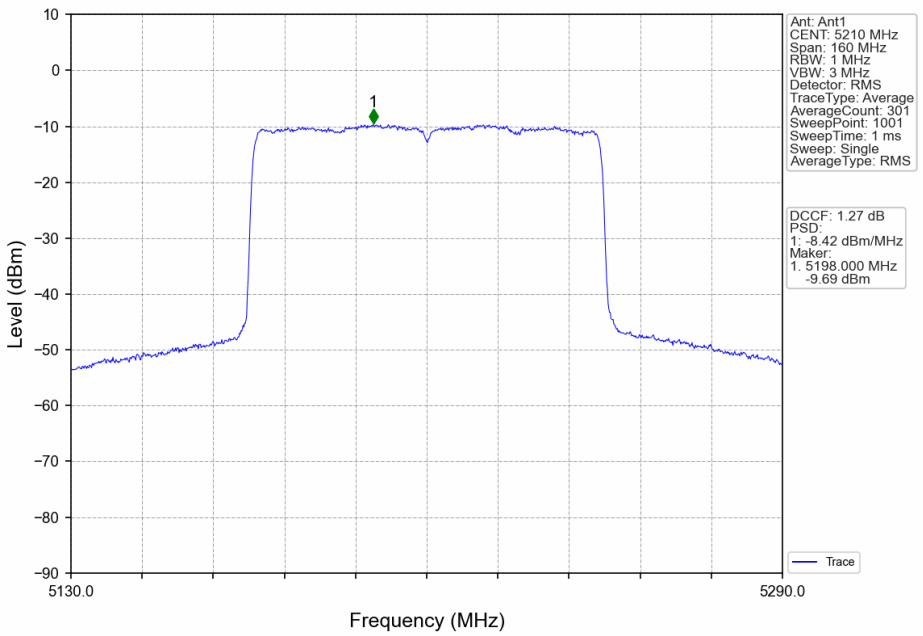
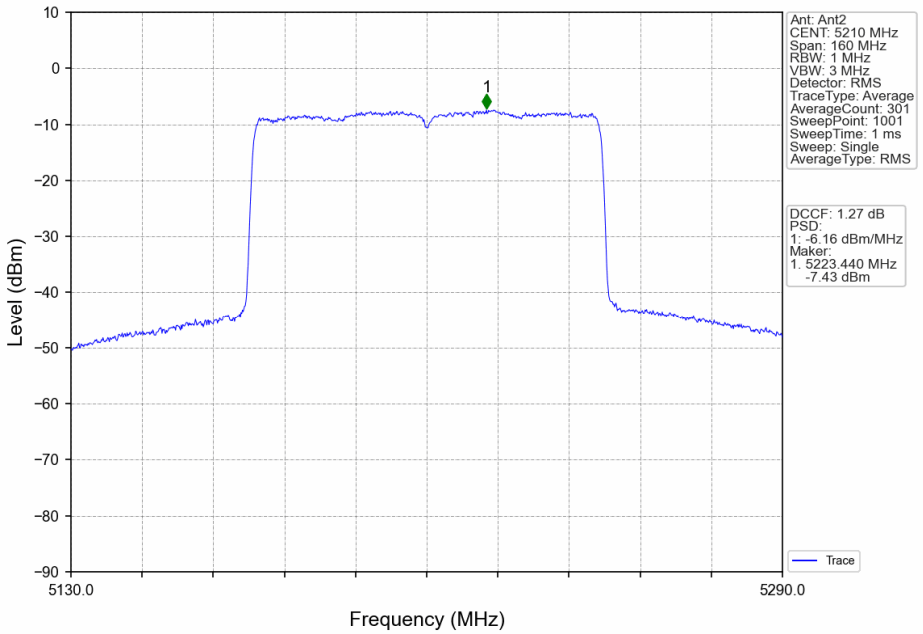
802.11ax(HEW80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5210MHz_RU996_Left_Ant2_NTNV



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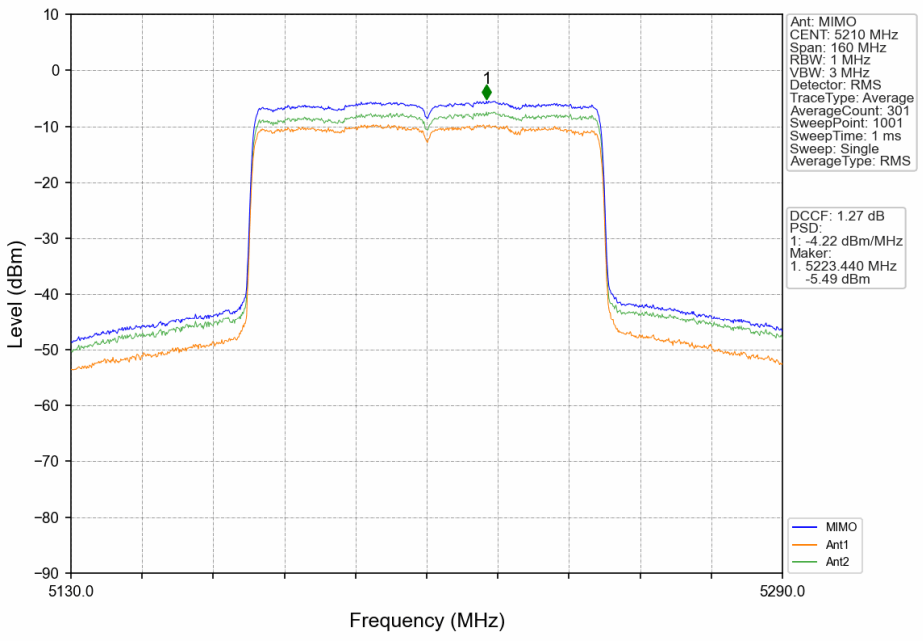
802.11ax(HEW80)_MCH_5210MHz_RU996_Left_MIMO_NTNV



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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Temperature (℃)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	/	/	20	102	5180.000	5150 to 5250	Pass
						120	5180.020	5150 to 5250	Pass
						138	5180.040	5150 to 5250	Pass
					-30	120	5179.980	5150 to 5250	Pass
					-20	120	5179.980	5150 to 5250	Pass
					-10	120	5179.980	5150 to 5250	Pass
					0	120	5179.960	5150 to 5250	Pass
					10	120	5180.020	5150 to 5250	Pass
					30	120	5179.980	5150 to 5250	Pass
					40	120	5180.020	5150 to 5250	Pass
					50	120	5179.960	5150 to 5250	Pass
		5200	/	/	20	102	5200.020	5150 to 5250	Pass
						120	5200.000	5150 to 5250	Pass
						138	5199.980	5150 to 5250	Pass
					-30	120	5199.980	5150 to 5250	Pass
					-20	120	5199.980	5150 to 5250	Pass
					-10	120	5199.960	5150 to 5250	Pass
					0	120	5200.000	5150 to 5250	Pass
					10	120	5199.980	5150 to 5250	Pass
					30	120	5200.020	5150 to 5250	Pass
					40	120	5200.000	5150 to 5250	Pass
					50	120	5200.000	5150 to 5250	Pass
		5240	/	/	20	102	5240.000	5150 to 5250	Pass
						120	5240.020	5150 to 5250	Pass
						138	5239.980	5150 to 5250	Pass
					-30	120	5239.980	5150 to 5250	Pass
					-20	120	5239.980	5150 to 5250	Pass
					-10	120	5239.980	5150 to 5250	Pass
					0	120	5239.980	5150 to 5250	Pass

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					10	120	5240.000	5150 to 5250	Pass
					30	120	5240.020	5150 to 5250	Pass
					40	120	5240.000	5150 to 5250	Pass
					50	120	5239.980	5150 to 5250	Pass
802.11n (HT20)	MIMO	5180	/	/	20	102	5179.980	5150 to 5250	Pass
						120	5180.000	5150 to 5250	Pass
						138	5179.980	5150 to 5250	Pass
					-30	120	5180.000	5150 to 5250	Pass
					-20	120	5179.980	5150 to 5250	Pass
					-10	120	5180.020	5150 to 5250	Pass
					0	120	5179.960	5150 to 5250	Pass
					10	120	5180.000	5150 to 5250	Pass
					30	120	5180.000	5150 to 5250	Pass
					40	120	5180.020	5150 to 5250	Pass
					50	120	5179.980	5150 to 5250	Pass
		5200	/	/	20	102	5199.980	5150 to 5250	Pass
						120	5199.980	5150 to 5250	Pass
						138	5200.000	5150 to 5250	Pass
					-30	120	5199.980	5150 to 5250	Pass
					-20	120	5199.980	5150 to 5250	Pass
					-10	120	5200.000	5150 to 5250	Pass
					0	120	5200.000	5150 to 5250	Pass
					10	120	5199.980	5150 to 5250	Pass
					30	120	5200.000	5150 to 5250	Pass
					40	120	5200.000	5150 to 5250	Pass
					50	120	5199.940	5150 to 5250	Pass
		5240	/	/	20	102	5239.960	5150 to 5250	Pass
						120	5239.960	5150 to 5250	Pass
						138	5239.960	5150 to 5250	Pass
					-30	120	5239.980	5150 to 5250	Pass
					-20	120	5239.960	5150 to 5250	Pass
					-10	120	5239.980	5150 to 5250	Pass
					0	120	5239.980	5150 to 5250	Pass
					10	120	5239.980	5150 to 5250	Pass
					30	120	5239.980	5150 to 5250	Pass
					40	120	5239.980	5150 to 5250	Pass
					50	120	5239.980	5150 to 5250	Pass
802.11n (HT40)	MIMO	5190	/	/	20	102	5190.040	5150 to 5250	Pass
						120	5190.040	5150 to 5250	Pass
						138	5190.040	5150 to 5250	Pass

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					-30	120	5190.080	5150 to 5250	Pass
					-20	120	5190.040	5150 to 5250	Pass
					-10	120	5190.040	5150 to 5250	Pass
					0	120	5190.000	5150 to 5250	Pass
					10	120	5190.080	5150 to 5250	Pass
					30	120	5190.040	5150 to 5250	Pass
					40	120	5190.040	5150 to 5250	Pass
					50	120	5190.040	5150 to 5250	Pass
		5230	/	/	20	102	5230.000	5150 to 5250	Pass
						120	5230.040	5150 to 5250	Pass
						138	5230.000	5150 to 5250	Pass
					-30	120	5230.000	5150 to 5250	Pass
					-20	120	5230.080	5150 to 5250	Pass
					-10	120	5230.000	5150 to 5250	Pass
					0	120	5230.000	5150 to 5250	Pass
					10	120	5230.000	5150 to 5250	Pass
					30	120	5230.040	5150 to 5250	Pass
					40	120	5230.040	5150 to 5250	Pass
					50	120	5230.040	5150 to 5250	Pass
802.11ac (VHT20)	MIMO	5180	/	/	20	102	5179.980	5150 to 5250	Pass
						120	5179.960	5150 to 5250	Pass
						138	5179.980	5150 to 5250	Pass
					-30	120	5180.000	5150 to 5250	Pass
					-20	120	5180.000	5150 to 5250	Pass
					-10	120	5179.980	5150 to 5250	Pass
					0	120	5180.000	5150 to 5250	Pass
					10	120	5179.980	5150 to 5250	Pass
					30	120	5180.000	5150 to 5250	Pass
					40	120	5179.980	5150 to 5250	Pass
					50	120	5179.980	5150 to 5250	Pass
		5200	/	/	20	102	5199.980	5150 to 5250	Pass
						120	5200.000	5150 to 5250	Pass
						138	5199.960	5150 to 5250	Pass
					-30	120	5200.040	5150 to 5250	Pass
					-20	120	5199.980	5150 to 5250	Pass
					-10	120	5199.980	5150 to 5250	Pass
					0	120	5200.020	5150 to 5250	Pass
					10	120	5199.980	5150 to 5250	Pass
					30	120	5199.940	5150 to 5250	Pass
					40	120	5199.980	5150 to 5250	Pass

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					50	120	5199.980	5150 to 5250	Pass
		5240	/	/	20	102	5239.880	5150 to 5250	Pass
						120	5239.960	5150 to 5250	Pass
						138	5240.000	5150 to 5250	Pass
					-30	120	5240.000	5150 to 5250	Pass
					-20	120	5239.980	5150 to 5250	Pass
					-10	120	5239.960	5150 to 5250	Pass
					0	120	5239.980	5150 to 5250	Pass
					10	120	5239.960	5150 to 5250	Pass
					30	120	5239.960	5150 to 5250	Pass
					40	120	5240.000	5150 to 5250	Pass
					50	120	5240.000	5150 to 5250	Pass
802.11ac (VHT40)	MIMO	5190	/	/	20	102	5190.040	5150 to 5250	Pass
						120	5190.040	5150 to 5250	Pass
						138	5190.040	5150 to 5250	Pass
					-30	120	5190.040	5150 to 5250	Pass
					-20	120	5190.040	5150 to 5250	Pass
					-10	120	5190.080	5150 to 5250	Pass
					0	120	5190.040	5150 to 5250	Pass
					10	120	5190.080	5150 to 5250	Pass
					30	120	5190.000	5150 to 5250	Pass
					40	120	5190.120	5150 to 5250	Pass
					50	120	5190.040	5150 to 5250	Pass
		5230	/	/	20	102	5230.040	5150 to 5250	Pass
						120	5230.040	5150 to 5250	Pass
						138	5230.040	5150 to 5250	Pass
					-30	120	5230.040	5150 to 5250	Pass
					-20	120	5230.000	5150 to 5250	Pass
					-10	120	5230.040	5150 to 5250	Pass
					0	120	5230.000	5150 to 5250	Pass
					10	120	5230.000	5150 to 5250	Pass
					30	120	5230.080	5150 to 5250	Pass
					40	120	5230.080	5150 to 5250	Pass
					50	120	5230.040	5150 to 5250	Pass
802.11ac (VHT80)	MIMO	5210	/	/	20	102	5210.075	5150 to 5250	Pass
						120	5210.075	5150 to 5250	Pass
						138	5210.075	5150 to 5250	Pass
					-30	120	5210.000	5150 to 5250	Pass
					-20	120	5210.075	5150 to 5250	Pass
					-10	120	5210.000	5150 to 5250	Pass

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					0	120	5210.075	5150 to 5250	Pass
					10	120	5210.075	5150 to 5250	Pass
					30	120	5210.075	5150 to 5250	Pass
					40	120	5210.075	5150 to 5250	Pass
					50	120	5210.000	5150 to 5250	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	20	102	5179.980	5150 to 5250	Pass
						120	5179.960	5150 to 5250	Pass
						138	5179.980	5150 to 5250	Pass
					-30	120	5179.980	5150 to 5250	Pass
					-20	120	5180.000	5150 to 5250	Pass
					-10	120	5180.040	5150 to 5250	Pass
					0	120	5180.000	5150 to 5250	Pass
					10	120	5179.960	5150 to 5250	Pass
					30	120	5179.980	5150 to 5250	Pass
					40	120	5179.940	5150 to 5250	Pass
					50	120	5180.000	5150 to 5250	Pass
		5200	RU242	Left	20	102	5200.020	5150 to 5250	Pass
						120	5200.000	5150 to 5250	Pass
						138	5200.000	5150 to 5250	Pass
					-30	120	5200.000	5150 to 5250	Pass
					-20	120	5199.960	5150 to 5250	Pass
					-10	120	5199.960	5150 to 5250	Pass
					0	120	5199.960	5150 to 5250	Pass
					10	120	5200.020	5150 to 5250	Pass
					30	120	5200.020	5150 to 5250	Pass
					40	120	5200.000	5150 to 5250	Pass
					50	120	5200.000	5150 to 5250	Pass
		5240	RU242	Left	20	102	5239.980	5150 to 5250	Pass
						120	5240.060	5150 to 5250	Pass
						138	5240.020	5150 to 5250	Pass
					-30	120	5240.020	5150 to 5250	Pass
					-20	120	5239.980	5150 to 5250	Pass
					-10	120	5239.980	5150 to 5250	Pass
					0	120	5239.920	5150 to 5250	Pass
					10	120	5239.980	5150 to 5250	Pass
					30	120	5239.980	5150 to 5250	Pass
					40	120	5240.020	5150 to 5250	Pass
					50	120	5239.960	5150 to 5250	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	20	102	5190.080	5150 to 5250	Pass
						120	5190.000	5150 to 5250	Pass

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						138	5190.080	5150 to 5250	Pass
					-30	120	5190.040	5150 to 5250	Pass
					-20	120	5190.080	5150 to 5250	Pass
					-10	120	5190.040	5150 to 5250	Pass
					0	120	5190.000	5150 to 5250	Pass
					10	120	5190.080	5150 to 5250	Pass
					30	120	5190.040	5150 to 5250	Pass
					40	120	5190.000	5150 to 5250	Pass
					50	120	5190.040	5150 to 5250	Pass
		5230	RU484	Left	20	102	5230.040	5150 to 5250	Pass
						120	5230.040	5150 to 5250	Pass
						138	5230.000	5150 to 5250	Pass
					-30	120	5230.080	5150 to 5250	Pass
					-20	120	5230.040	5150 to 5250	Pass
					-10	120	5230.000	5150 to 5250	Pass
					0	120	5230.040	5150 to 5250	Pass
					10	120	5230.040	5150 to 5250	Pass
					30	120	5230.000	5150 to 5250	Pass
					40	120	5230.040	5150 to 5250	Pass
					50	120	5230.080	5150 to 5250	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	20	102	5210.076	5150 to 5250	Pass
						120	5210.076	5150 to 5250	Pass
						138	5210.076	5150 to 5250	Pass
					-30	120	5210.000	5150 to 5250	Pass
					-20	120	5210.075	5150 to 5250	Pass
					-10	120	5210.076	5150 to 5250	Pass
					0	120	5210.000	5150 to 5250	Pass
					10	120	5210.000	5150 to 5250	Pass
					30	120	5210.076	5150 to 5250	Pass
					40	120	5210.076	5150 to 5250	Pass
					50	120	5210.000	5150 to 5250	Pass

- End of the Report -

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