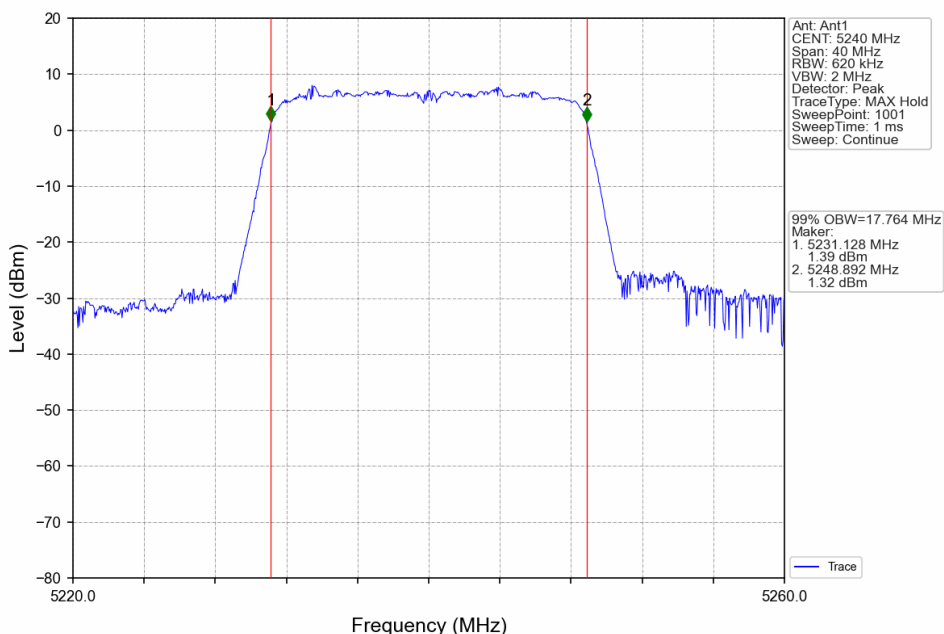
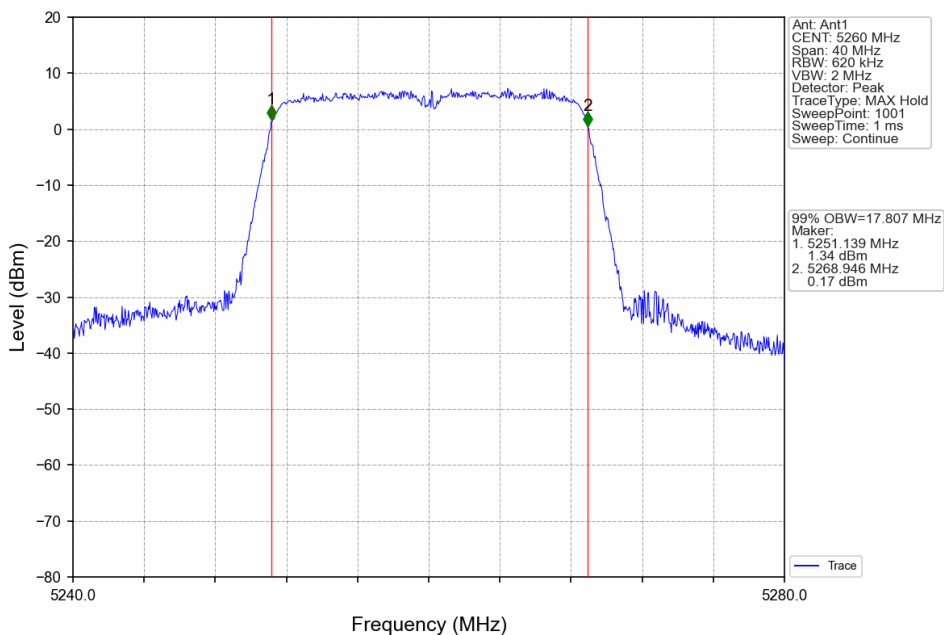


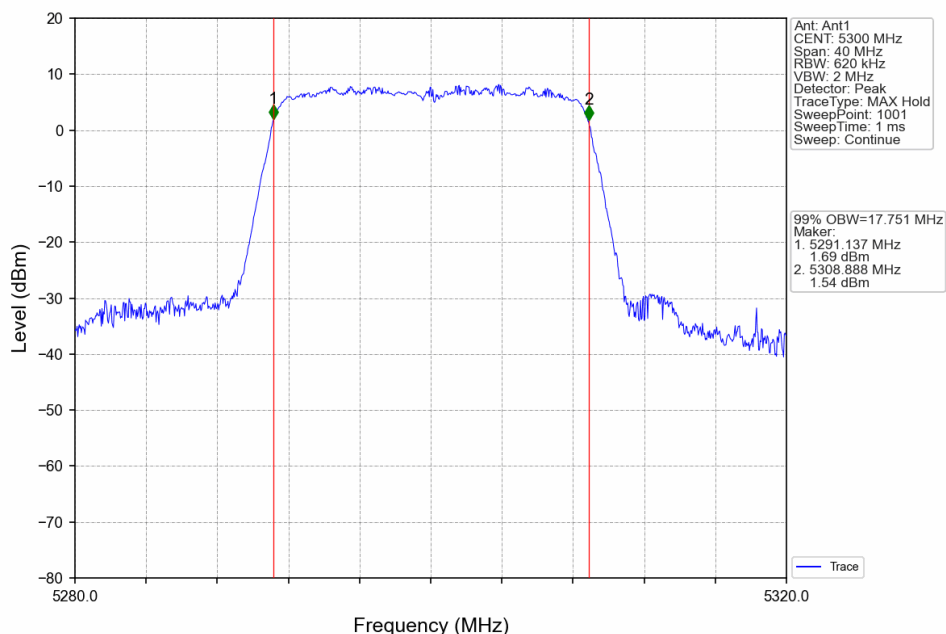
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



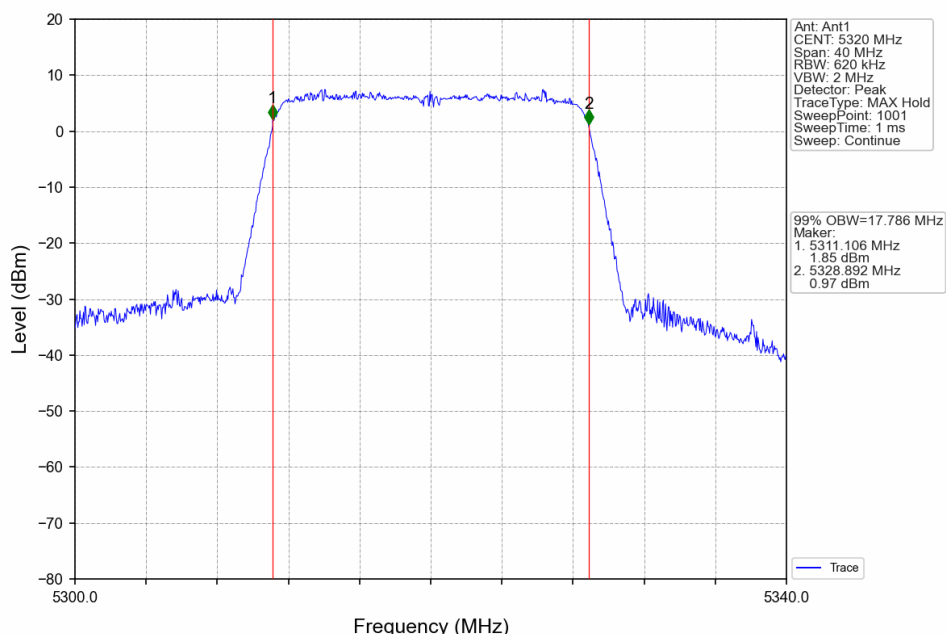
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



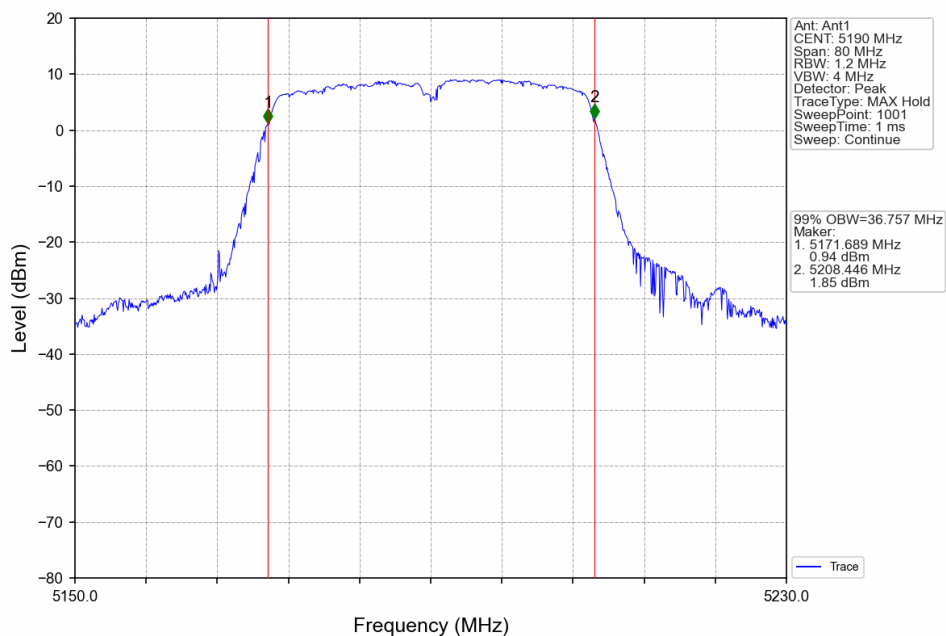
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



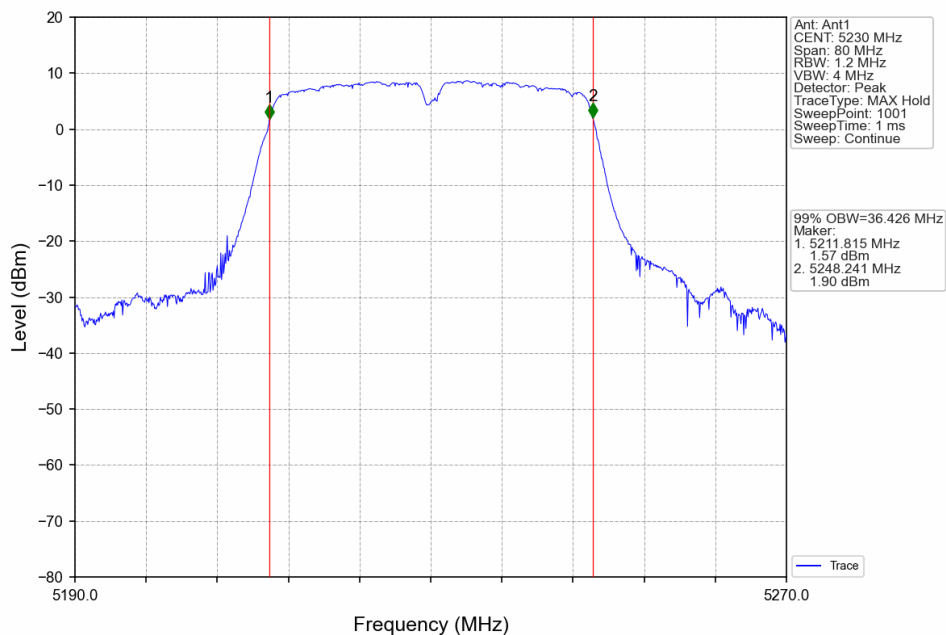
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



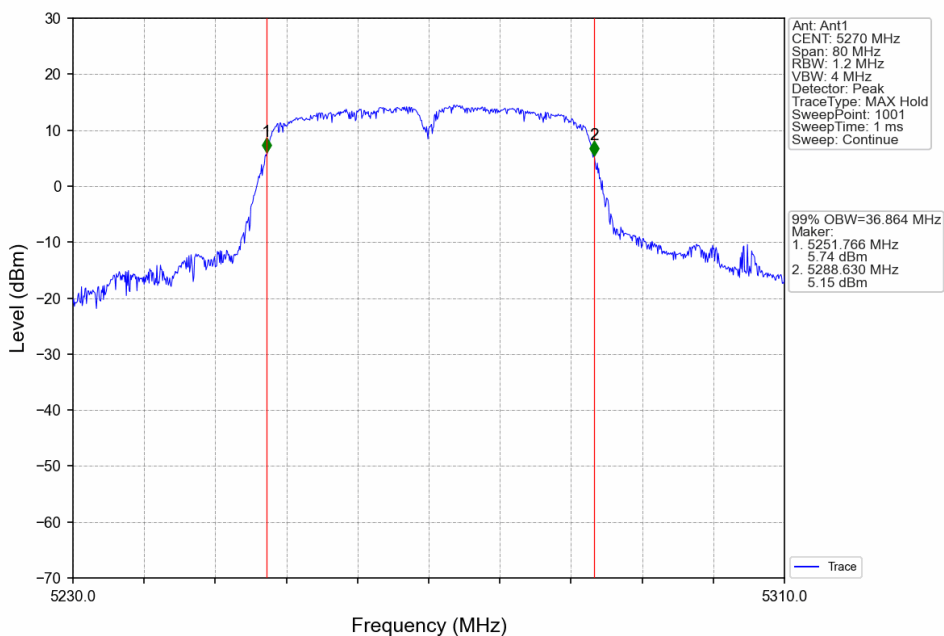
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



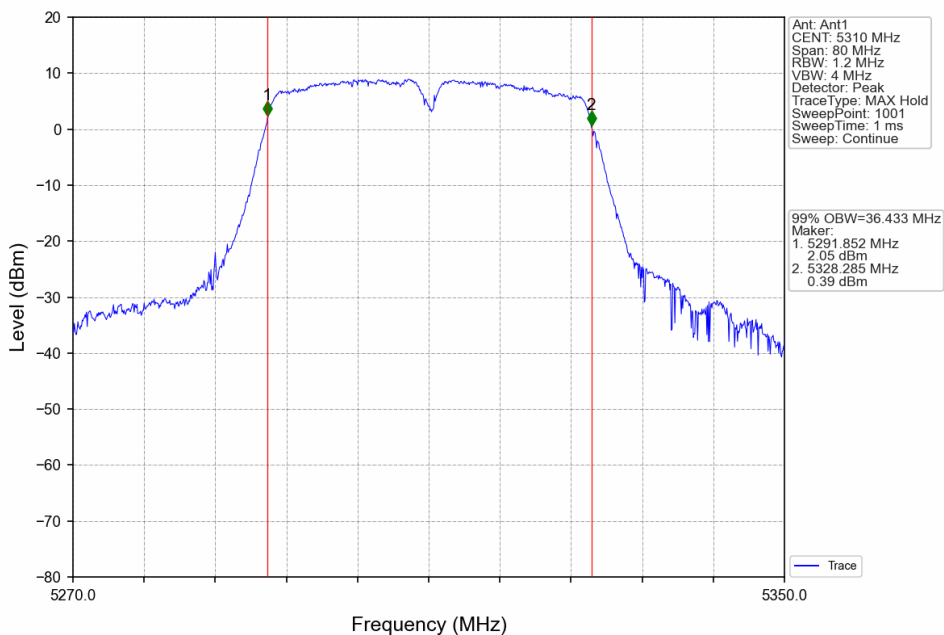
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



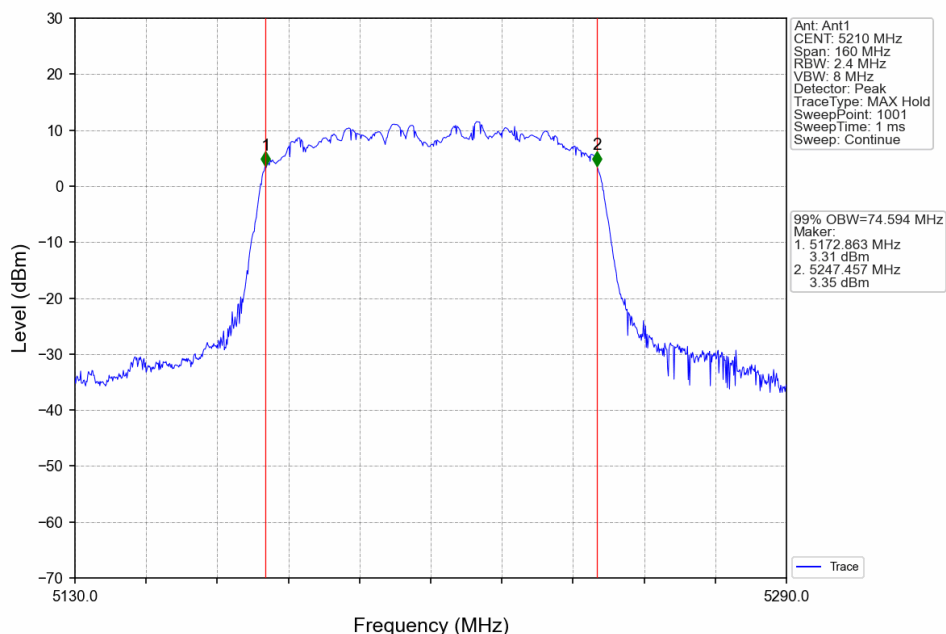
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



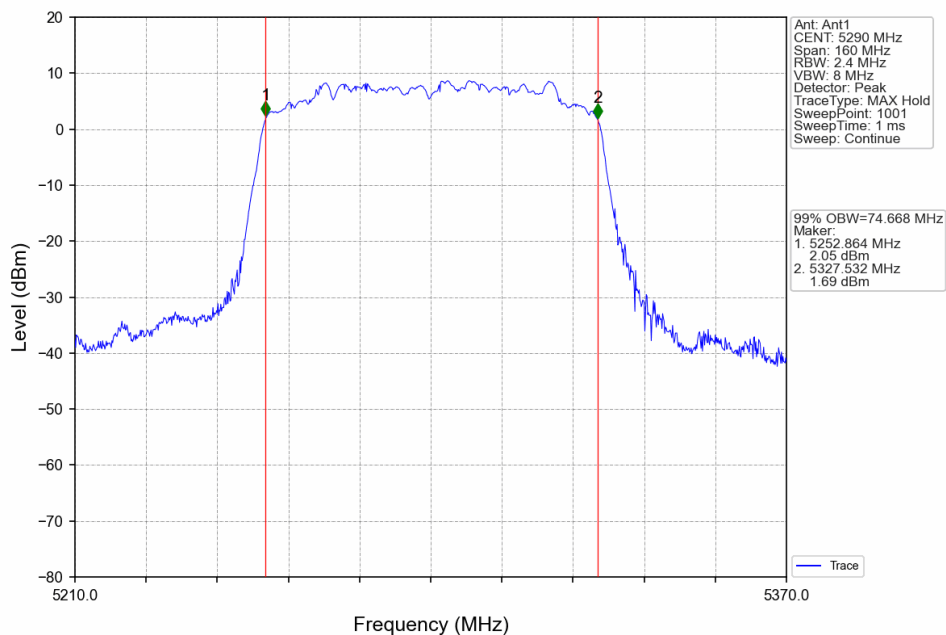
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



2.2 26dB BW

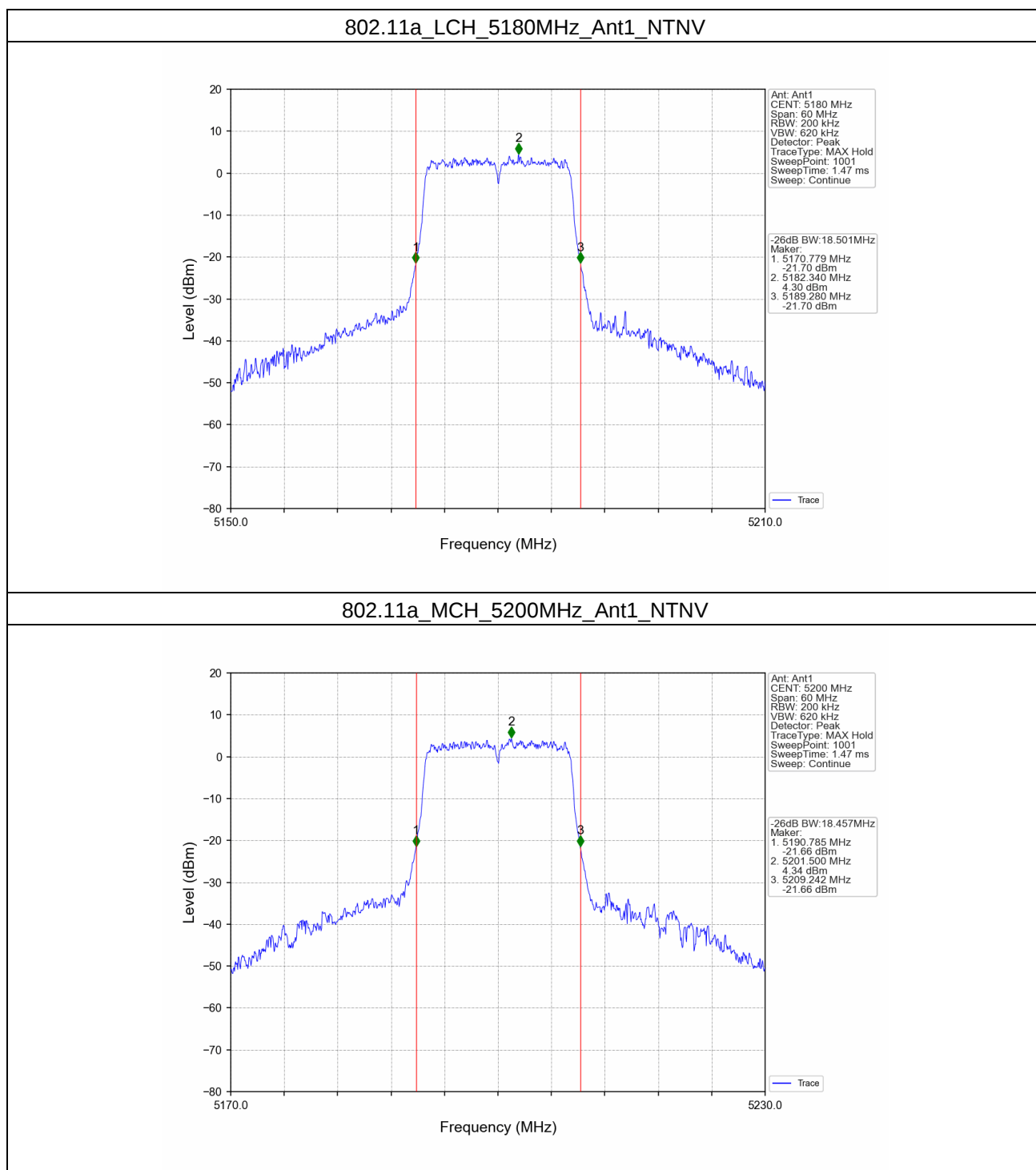
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	18.501	/	Pass
		5200	1	18.457	/	Pass
		5240	1	18.589	/	Pass
		5260	1	18.438	/	Pass
		5300	1	18.438	/	Pass
		5320	1	18.621	/	Pass
802.11n (HT20)	MIMO	5180	1	19.390	/	Pass
		5200	1	18.459	/	Pass
		5240	1	19.454	/	Pass
		5260	1	19.386	/	Pass
		5300	1	19.567	/	Pass
		5320	1	19.361	/	Pass
802.11n (HT40)	MIMO	5190	1	41.059	/	Pass
		5230	1	41.321	/	Pass
		5270	1	41.291	/	Pass
		5310	1	41.493	/	Pass
802.11ac (VHT20)	MIMO	5180	1	19.544	/	Pass
		5200	1	19.451	/	Pass
		5240	1	19.460	/	Pass
		5260	1	19.493	/	Pass
		5300	1	19.384	/	Pass
		5320	1	19.392	/	Pass
802.11ac (VHT40)	MIMO	5190	1	41.651	/	Pass
		5230	1	41.301	/	Pass
		5270	1	51.049	/	Pass
		5310	1	41.240	/	Pass
802.11ac (VHT80)	MIMO	5210	1	80.716	/	Pass
		5290	1	81.016	/	Pass

Note: All antennas type has been tested and we found the antenna 1 has the worst result. Only record the worst test result.



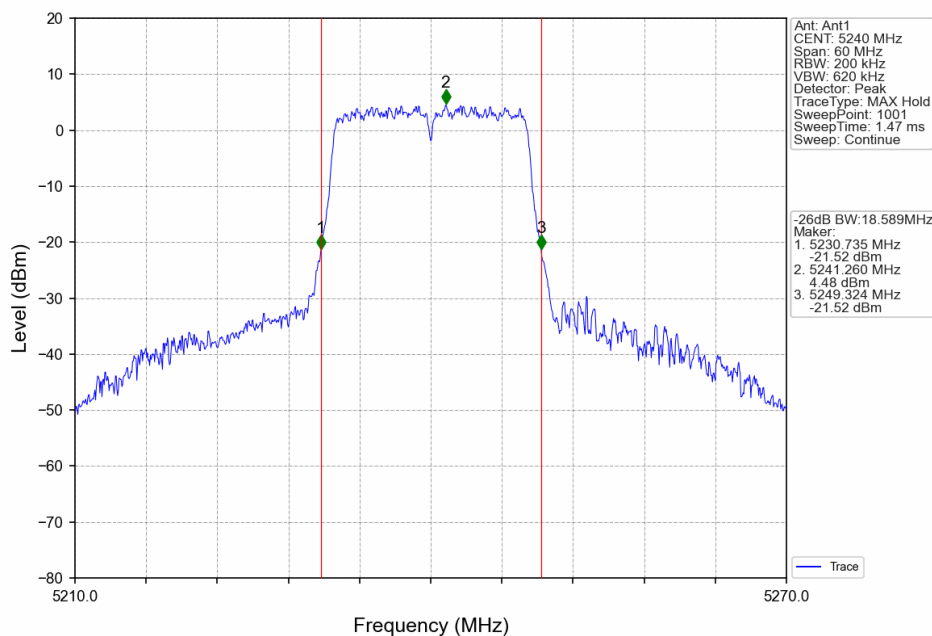
2.2.2 Test Graph



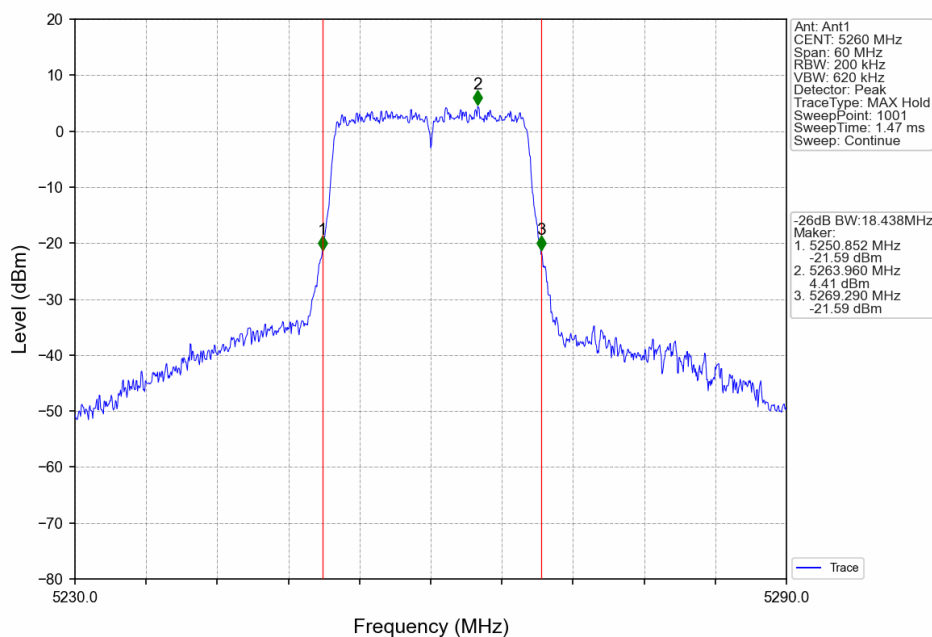
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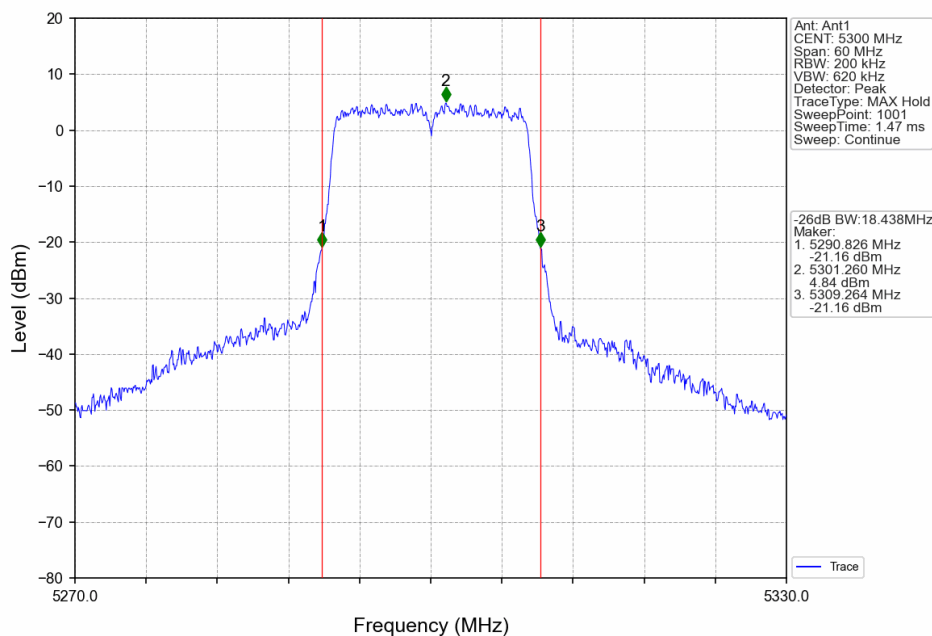
802.11a_HCH_5240MHz_Ant1_NTNV



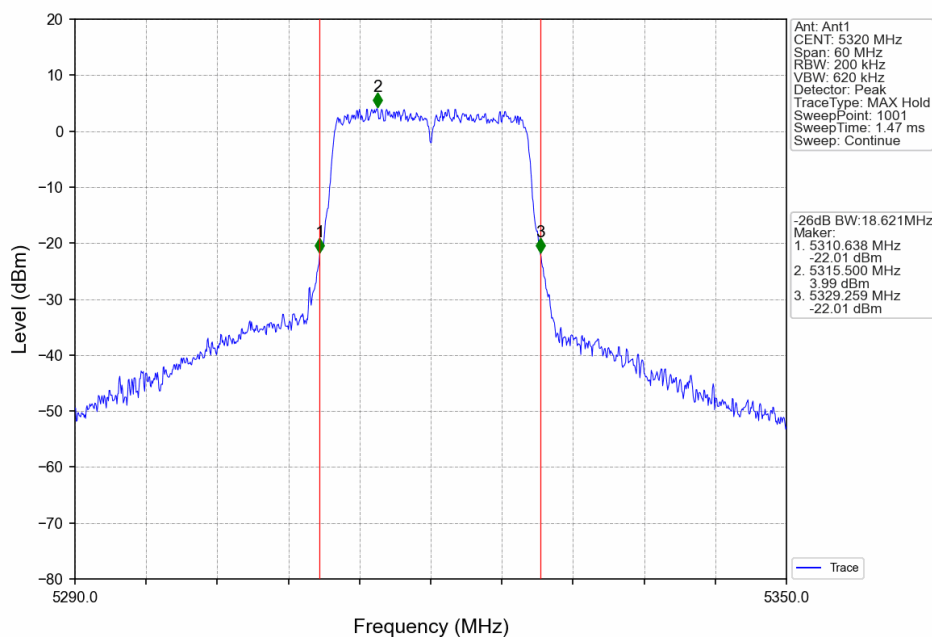
802.11a_LCH_5260MHz_Ant1_NTNV



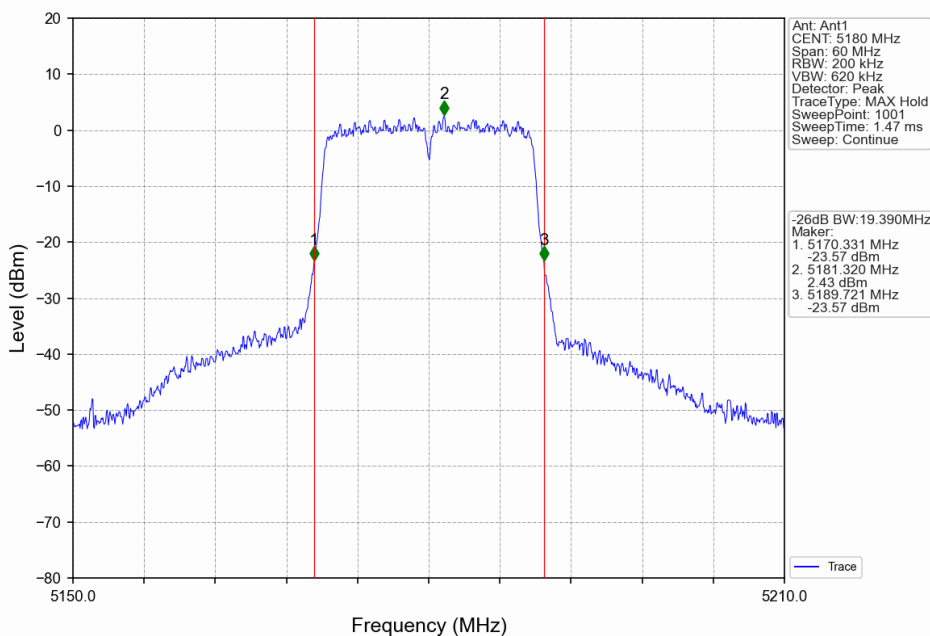
802.11a_MCH_5300MHz_Ant1_NTNV



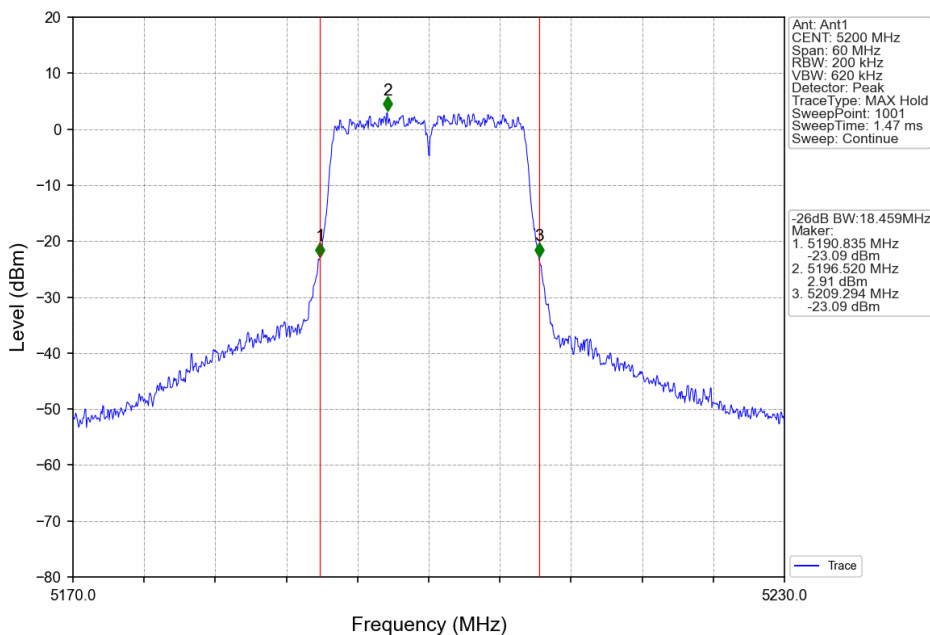
802.11a_HCH_5320MHz_Ant1_NTNV



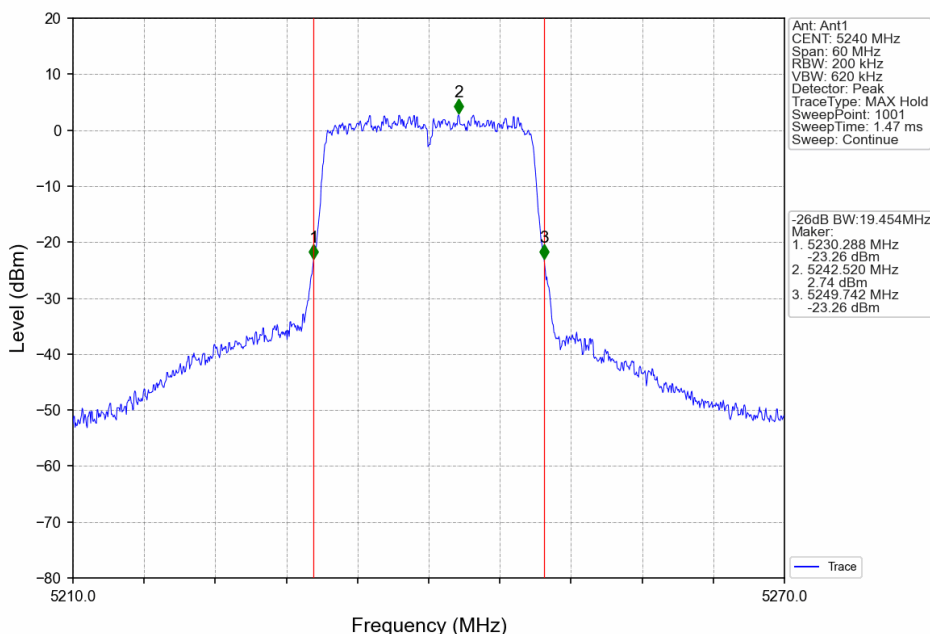
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



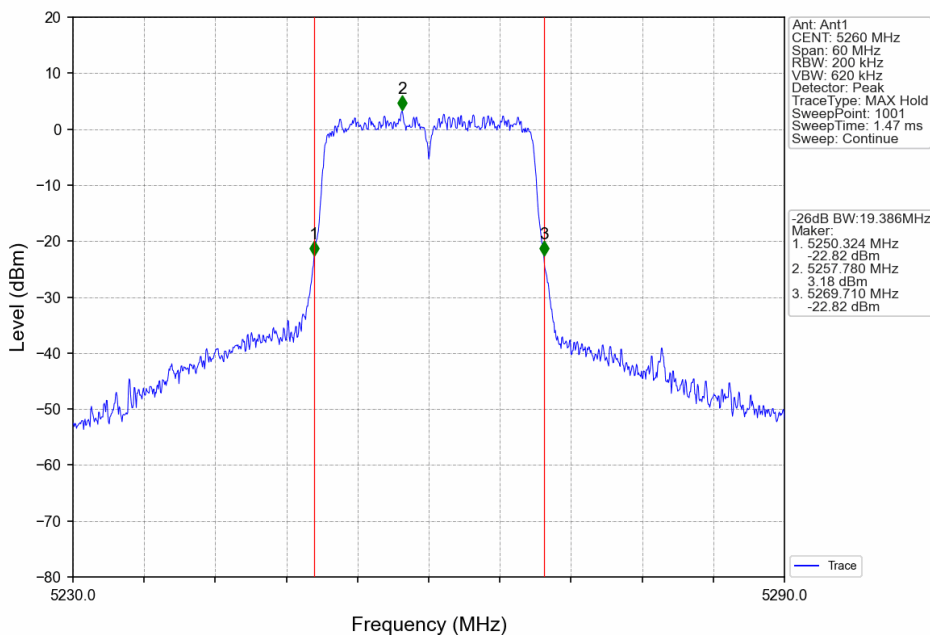
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



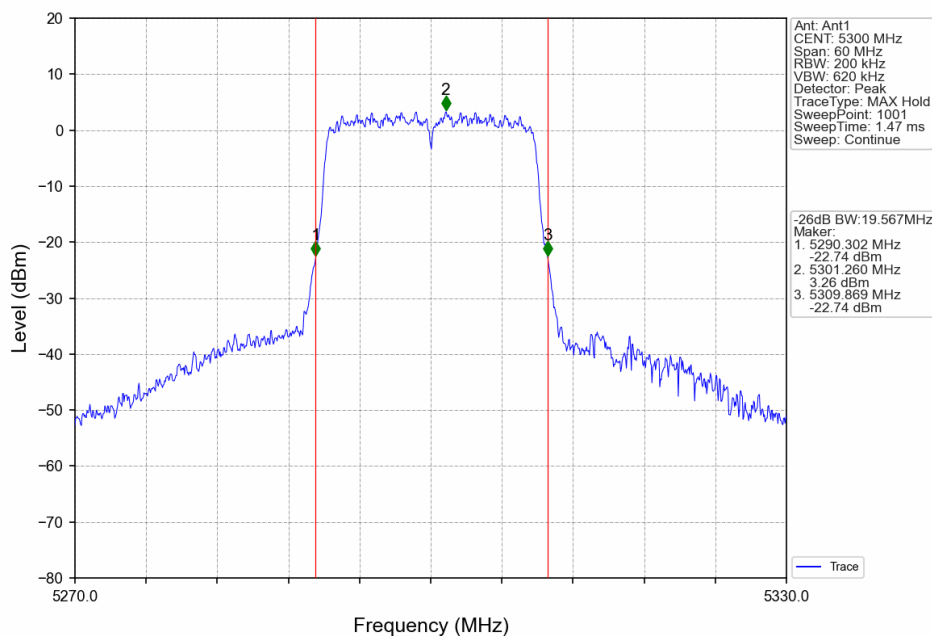
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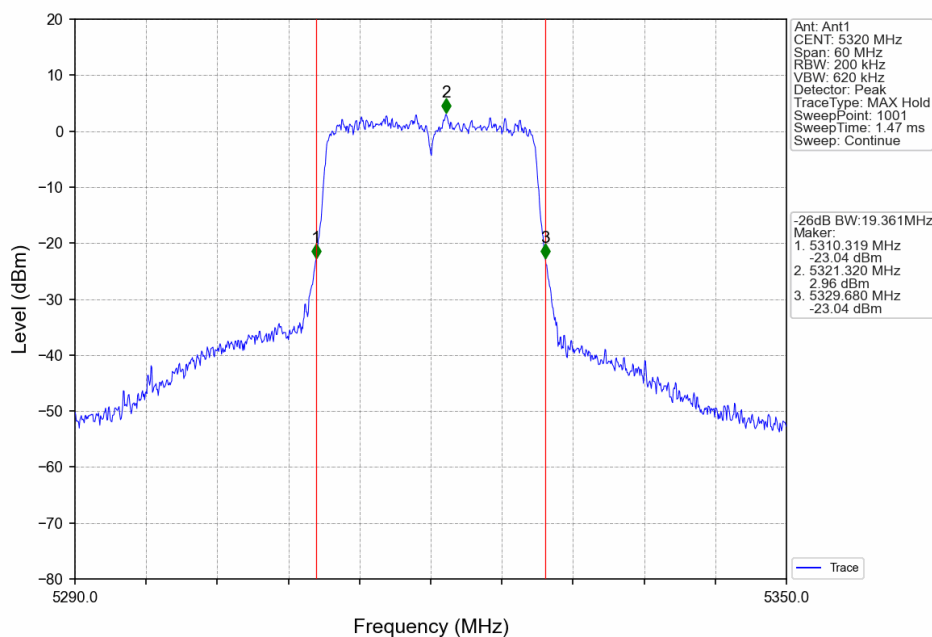
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

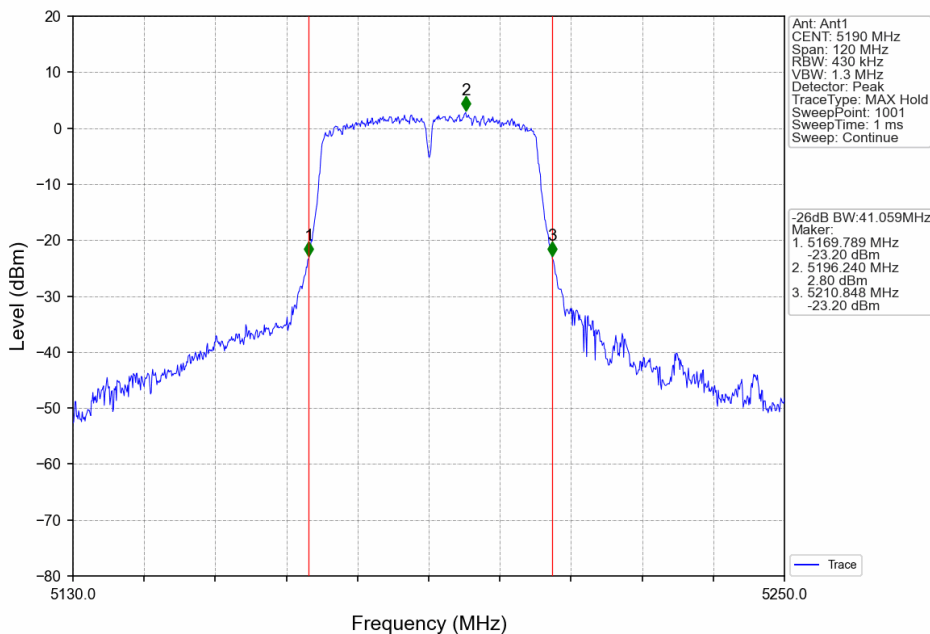
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



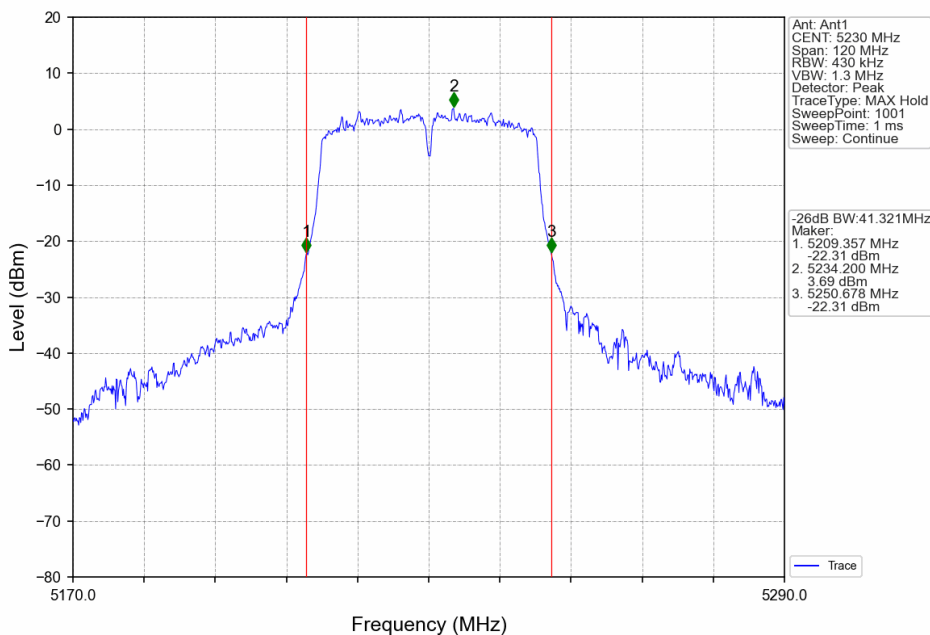
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



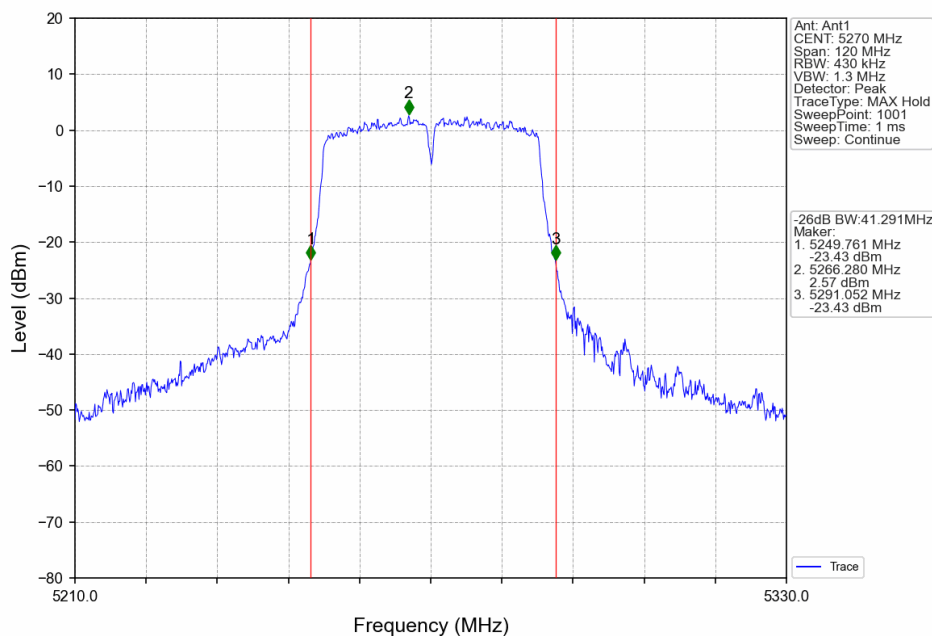
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



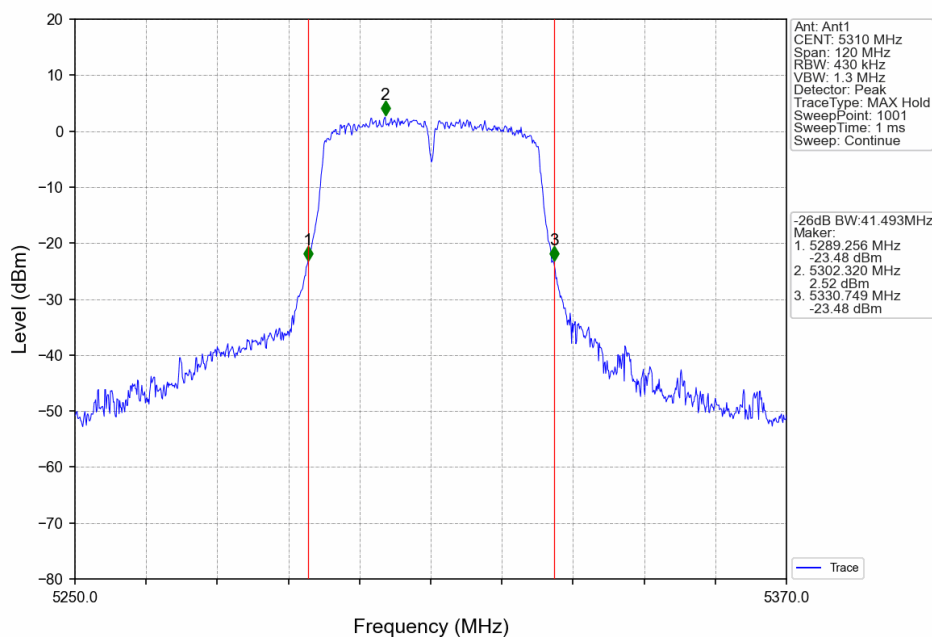
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



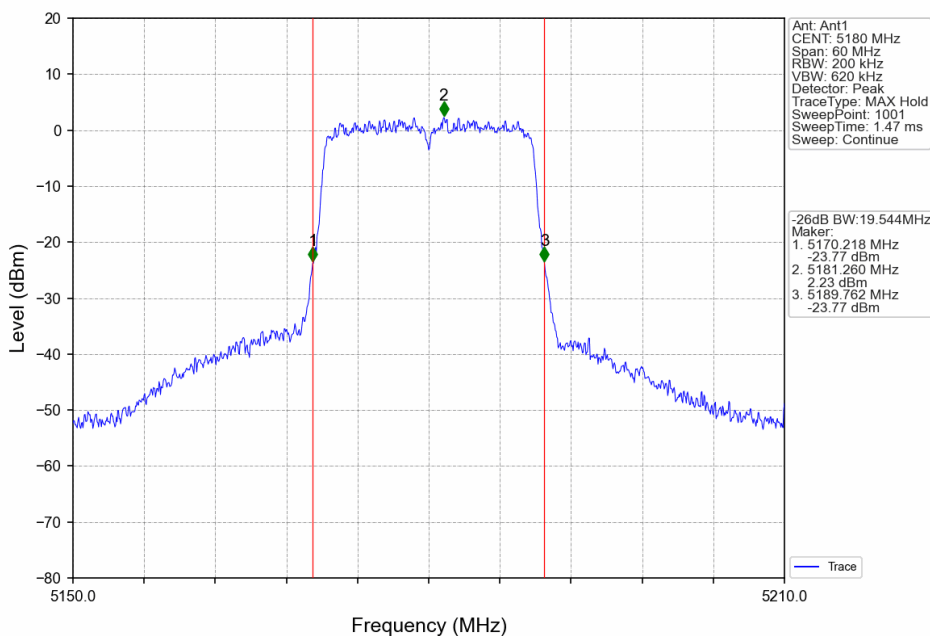
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



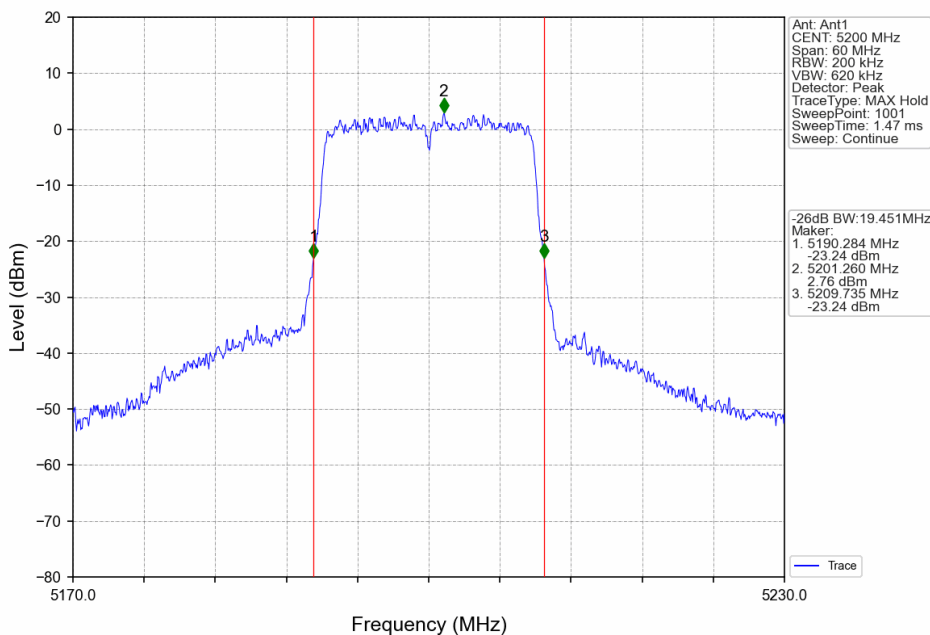
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



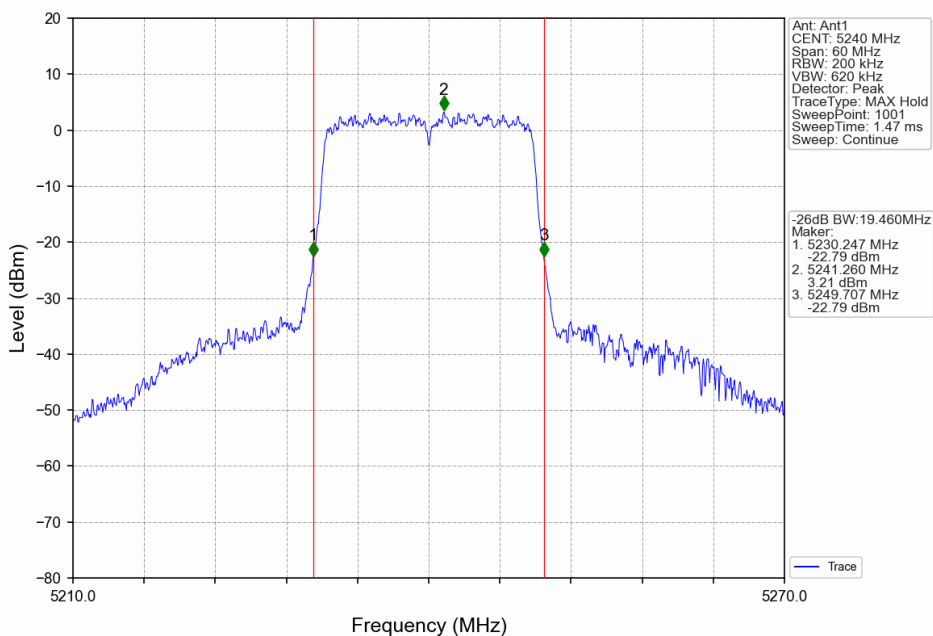
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



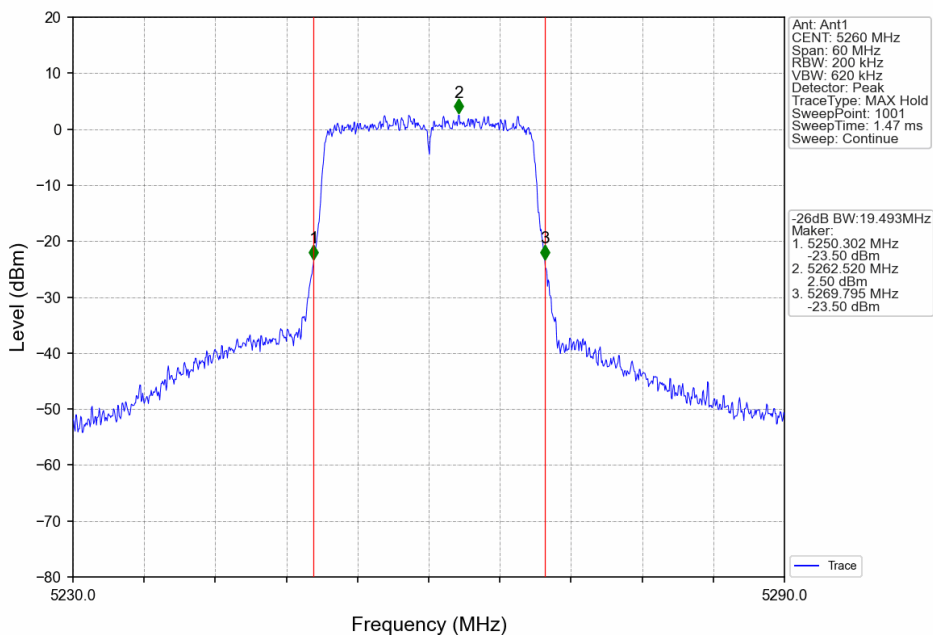
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



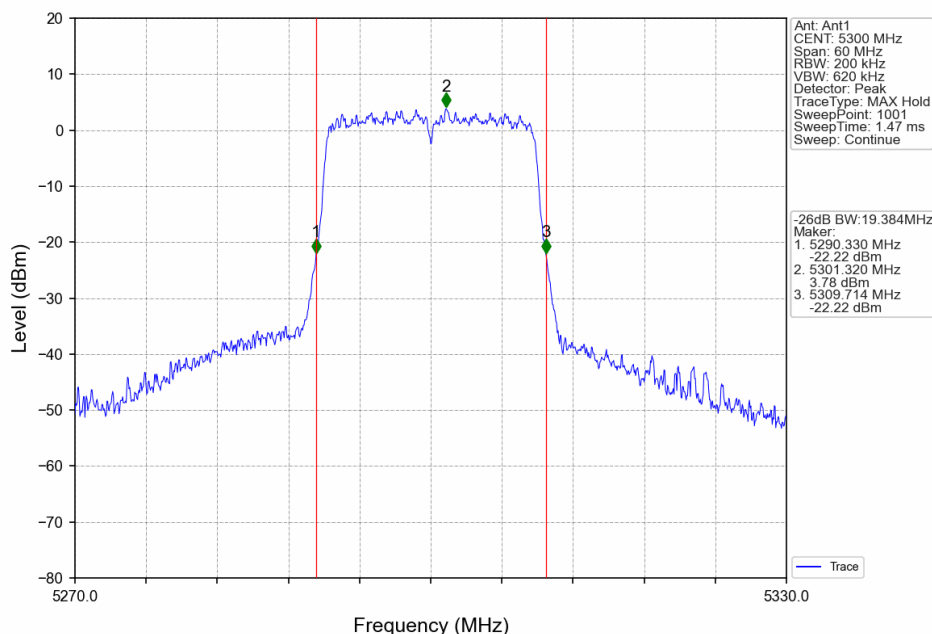
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



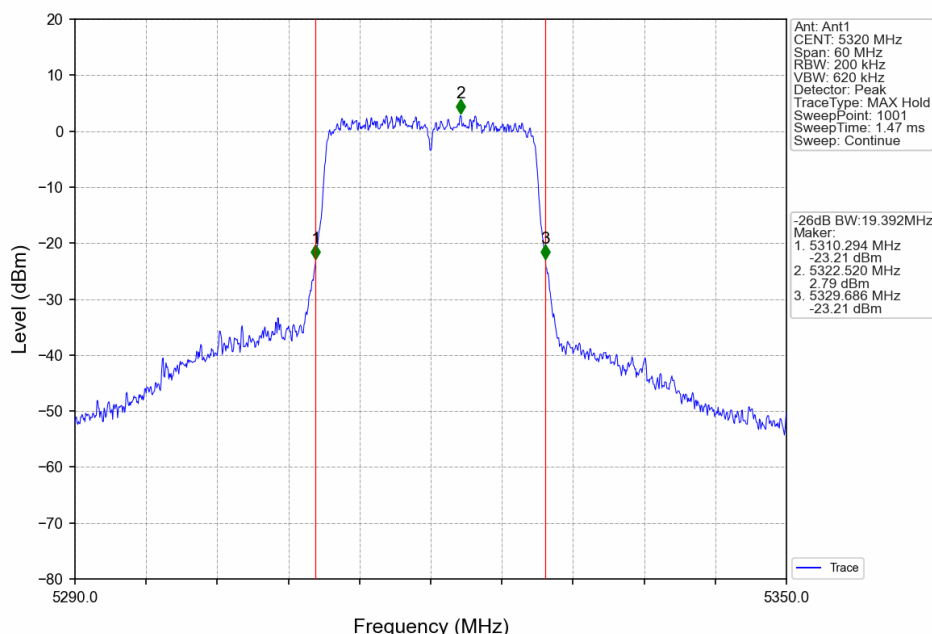
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



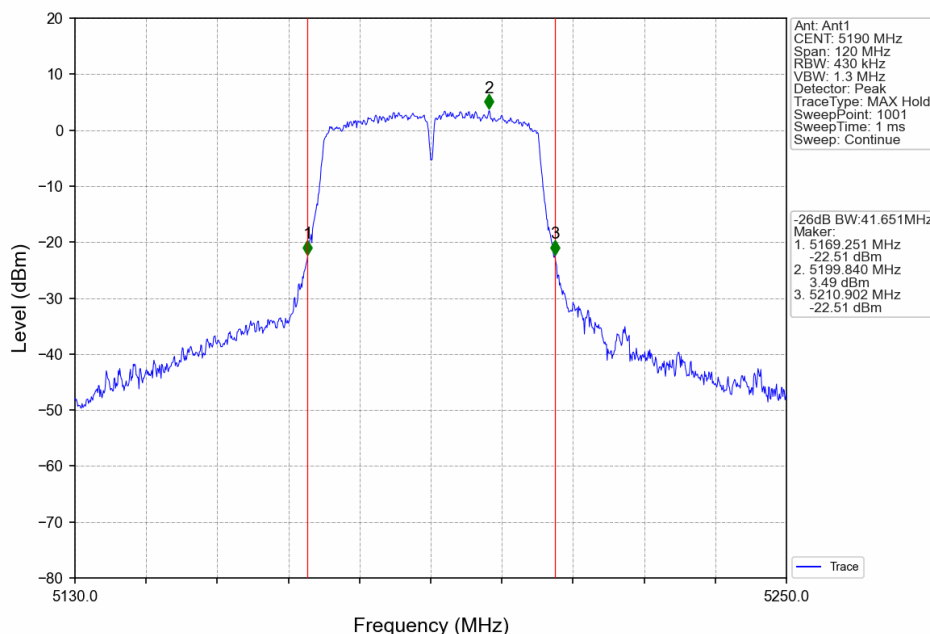
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



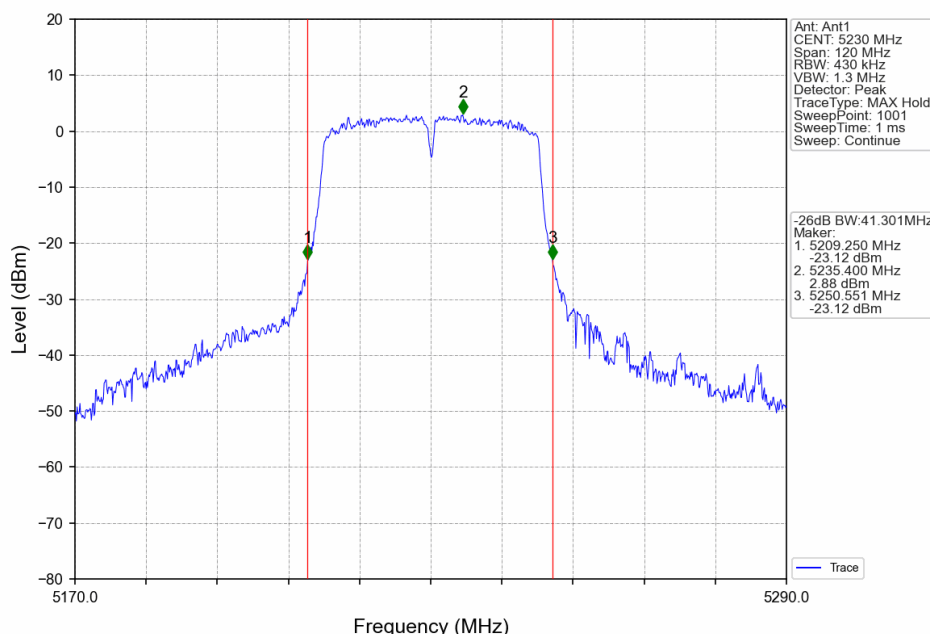
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



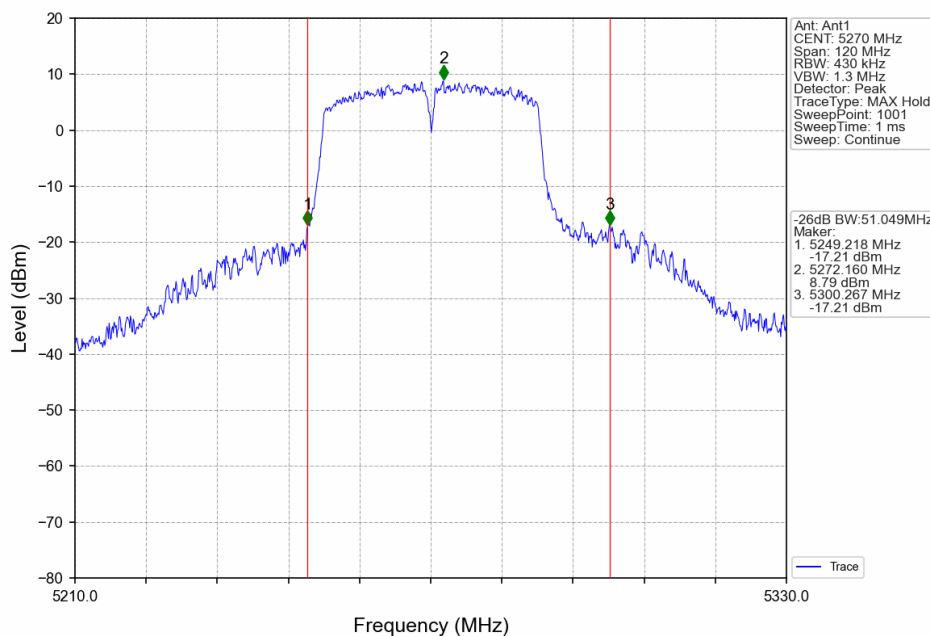
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



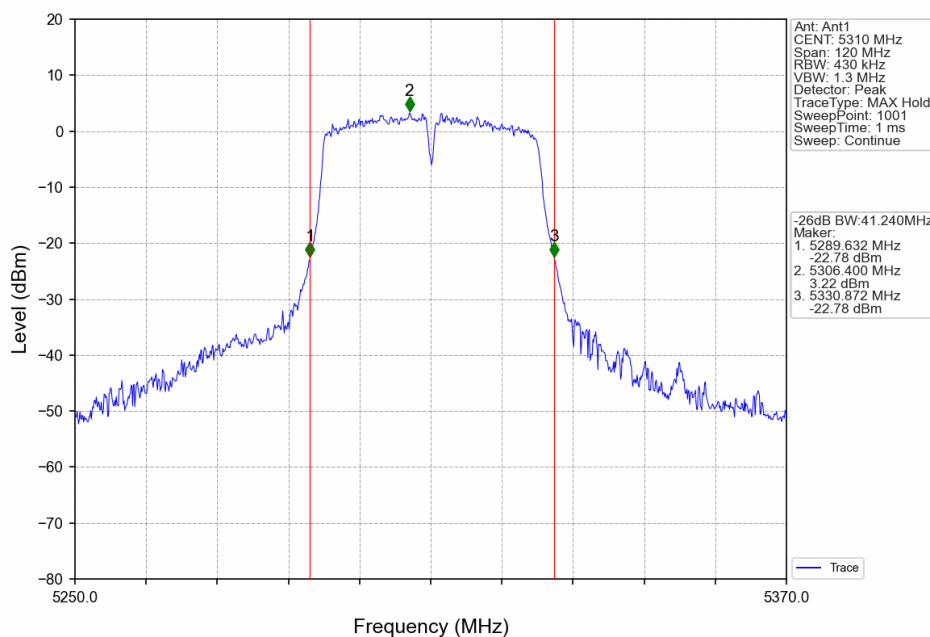
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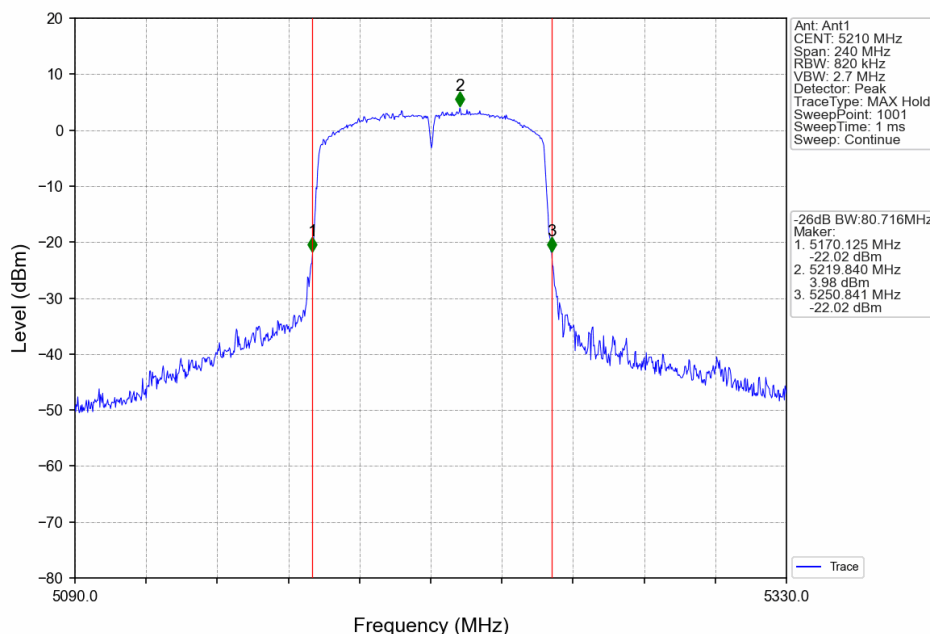
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



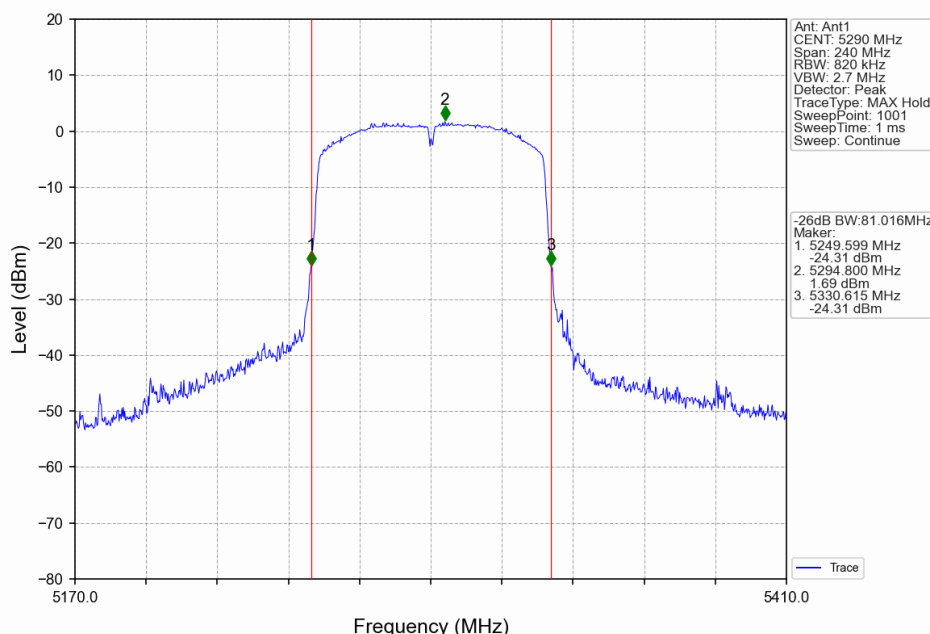
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	13.70	14.46	/	<=30	Pass
		5200	14.00	14.77	/	<=30	Pass
		5240	14.62	15.72	/	<=30	Pass
		5260	13.96	14.86	/	<=23.66	Pass
		5300	14.70	15.42	/	<=23.66	Pass
		5320	14.15	15.63	/	<=23.7	Pass
802.11n (HT20)	MIMO	5180	12.17	12.76	15.49	<=30	Pass
		5200	12.79	13.04	15.93	<=30	Pass
		5240	12.87	13.36	16.13	<=30	Pass
		5260	12.54	13.15	15.87	<=23.87	Pass
		5300	13.13	13.88	16.53	<=23.92	Pass
		5320	12.66	13.71	16.23	<=23.87	Pass
802.11n (HT40)	MIMO	5190	11.80	12.19	15.01	<=30	Pass
		5230	12.37	12.96	15.69	<=30	Pass
		5270	12.49	13.08	15.81	<=23.98	Pass
		5310	12.58	13.41	16.03	<=23.98	Pass
802.11ac (VHT20)	MIMO	5180	11.87	12.51	15.21	<=30	Pass
		5200	12.52	13.00	15.78	<=30	Pass
		5240	12.80	13.36	16.10	<=30	Pass
		5260	12.69	13.16	15.94	<=23.9	Pass
		5300	13.46	14.13	16.82	<=23.87	Pass
		5320	12.90	13.99	16.49	<=23.88	Pass
802.11ac (VHT40)	MIMO	5190	13.54	13.27	16.42	<=30	Pass
		5230	12.59	13.06	15.84	<=30	Pass
		5270	12.19	12.48	15.35	<=23.98	Pass
		5310	12.75	13.60	16.21	<=23.98	Pass
802.11ac (VHT80)	MIMO	5210	11.33	11.77	14.57	<=30	Pass
		5290	11.64	12.00	14.83	<=23.98	Pass

Note1: Antenna Gain: 2.58dBi (Ant1& Ant2)

Note2: Directional Gain: 2.58dBi

4. Maximum Power Spectral Density

4.1 PSD

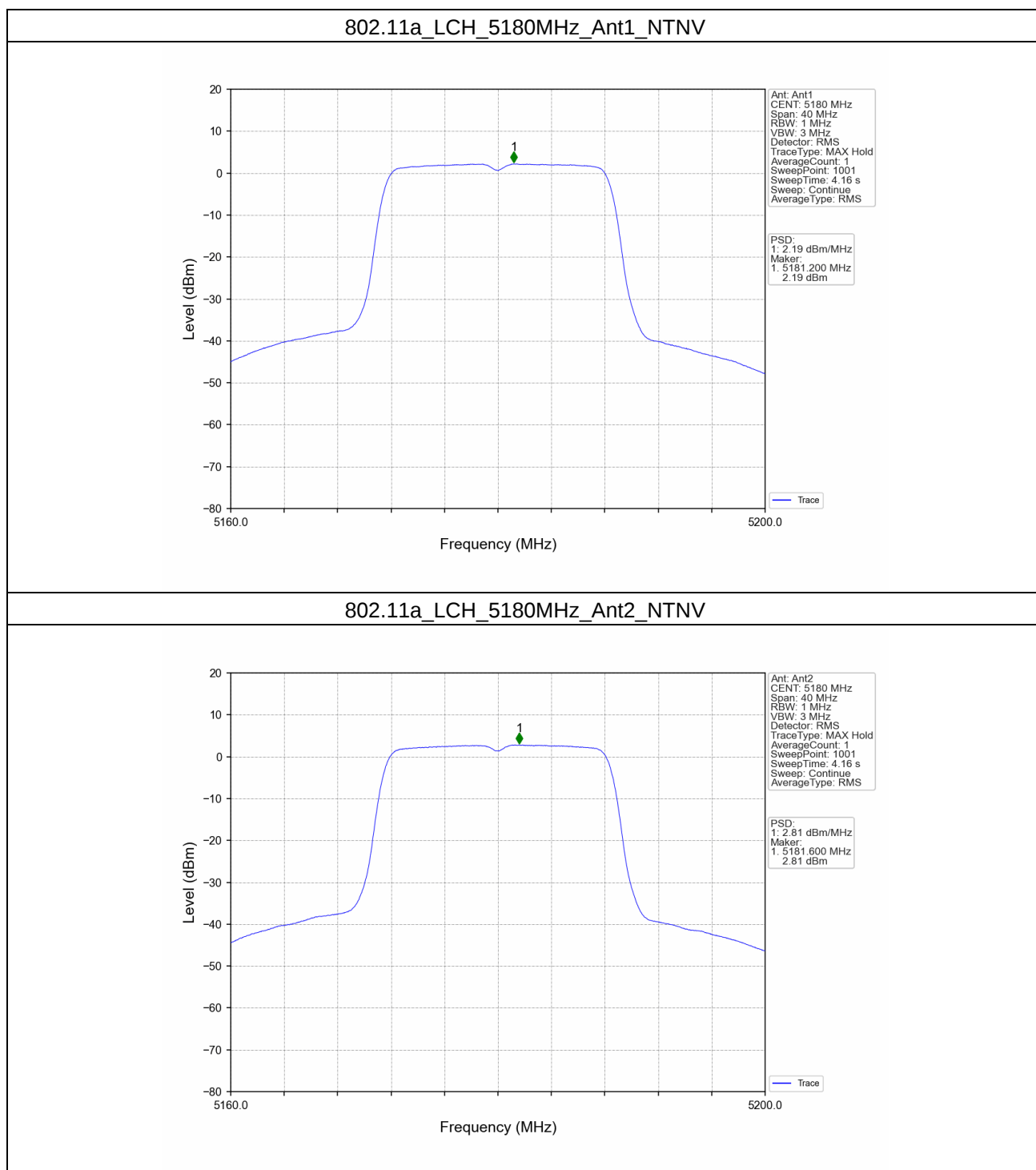
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	2.19	2.81	/	<=17	Pass
		5200	2.66	3.19	/	<=17	Pass
		5240	3.27	3.60	/	<=17	Pass
		5260	2.63	3.38	/	<=11	Pass
		5300	3.34	4.06	/	<=11	Pass
		5320	2.72	3.83	/	<=11	Pass
802.11n (HT20)	MIMO	5180	0.53	1.14	3.83	<=17	Pass
		5200	1.55	1.69	4.57	<=17	Pass
		5240	1.19	1.77	4.49	<=17	Pass
		5260	0.90	1.51	4.19	<=11	Pass
		5300	1.84	2.46	5.14	<=11	Pass
		5320	1.13	2.30	4.68	<=11	Pass
802.11n (HT40)	MIMO	5190	-2.29	-2.26	0.62	<=17	Pass
		5230	-1.68	-1.49	1.28	<=17	Pass
		5270	-1.56	-0.87	1.73	<=11	Pass
		5310	-1.28	-0.62	2.02	<=11	Pass
802.11ac (VHT20)	MIMO	5180	0.51	1.02	3.68	<=17	Pass
		5200	1.16	1.47	4.18	<=17	Pass
		5240	1.47	1.89	4.55	<=17	Pass
		5260	1.13	1.68	4.36	<=11	Pass
		5300	1.98	2.65	5.21	<=11	Pass
		5320	1.38	2.71	5.05	<=11	Pass
802.11ac (VHT40)	MIMO	5190	-0.51	-1.18	2.14	<=17	Pass
		5230	-1.73	-1.01	1.56	<=17	Pass
		5270	-1.96	-1.64	1.13	<=11	Pass
		5310	-1.18	-0.39	2.12	<=11	Pass
802.11ac (VHT80)	MIMO	5210	-5.90	-5.50	-2.79	<=17	Pass
		5290	-5.52	-5.04	-2.35	<=11	Pass

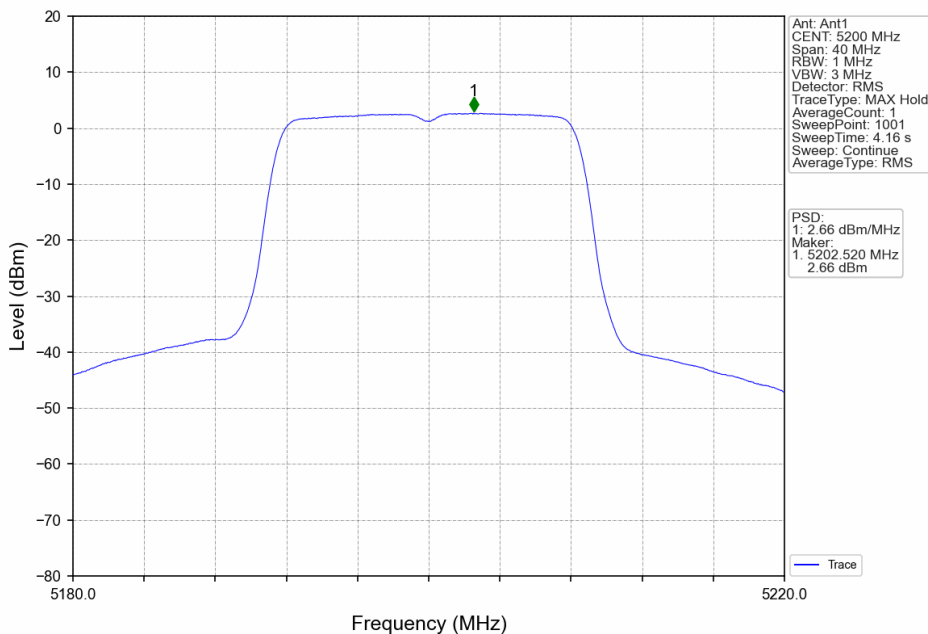
Note1: Antenna Gain: 2.58dBi (Ant1& Ant2)

Note2: Directional Gain: 5.59dBi (for PSD)

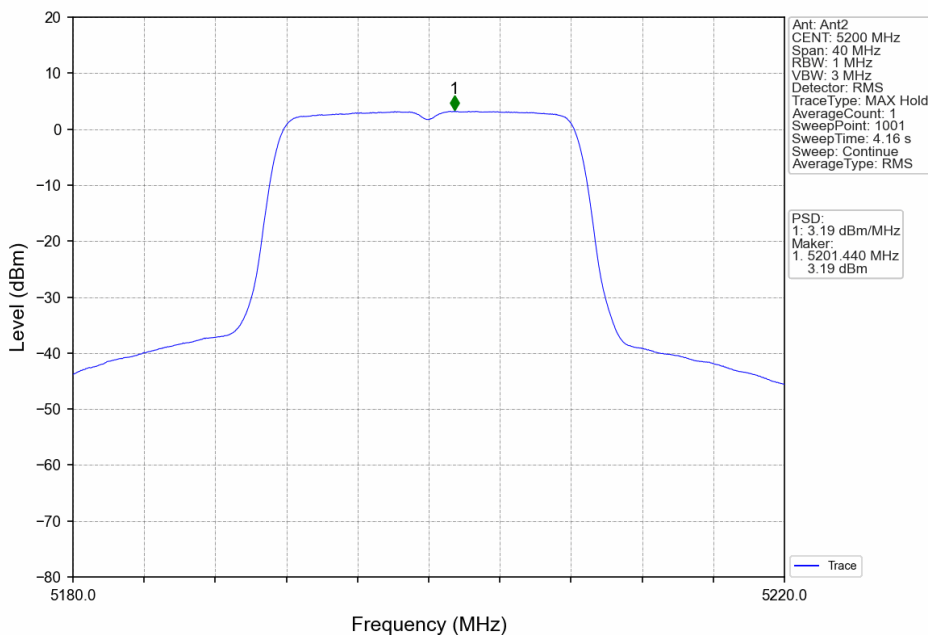
4.1.2 Test Graph



802.11a_MCH_5200MHz_Ant1_NTNV



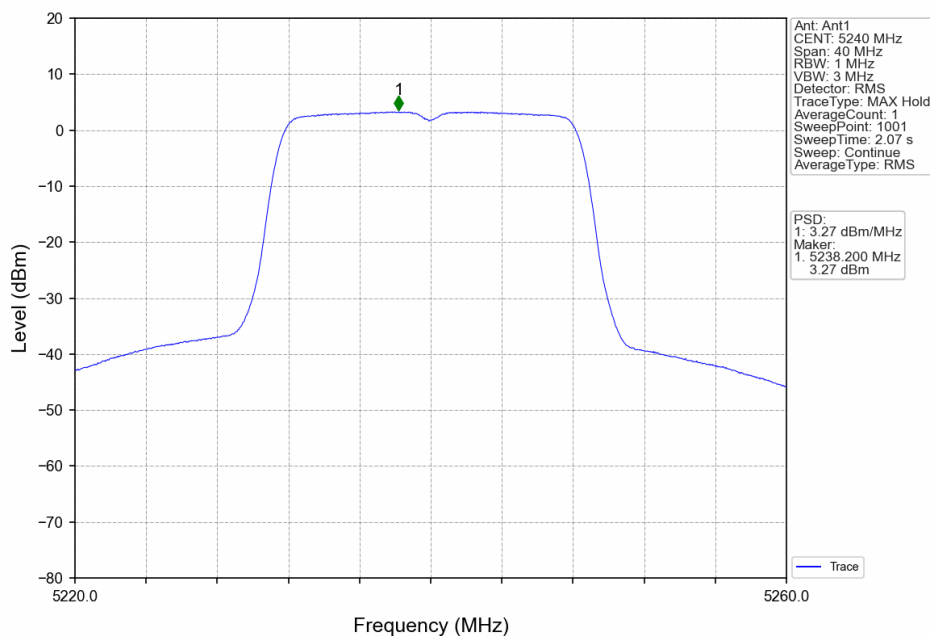
802.11a_MCH_5200MHz_Ant2_NTNV



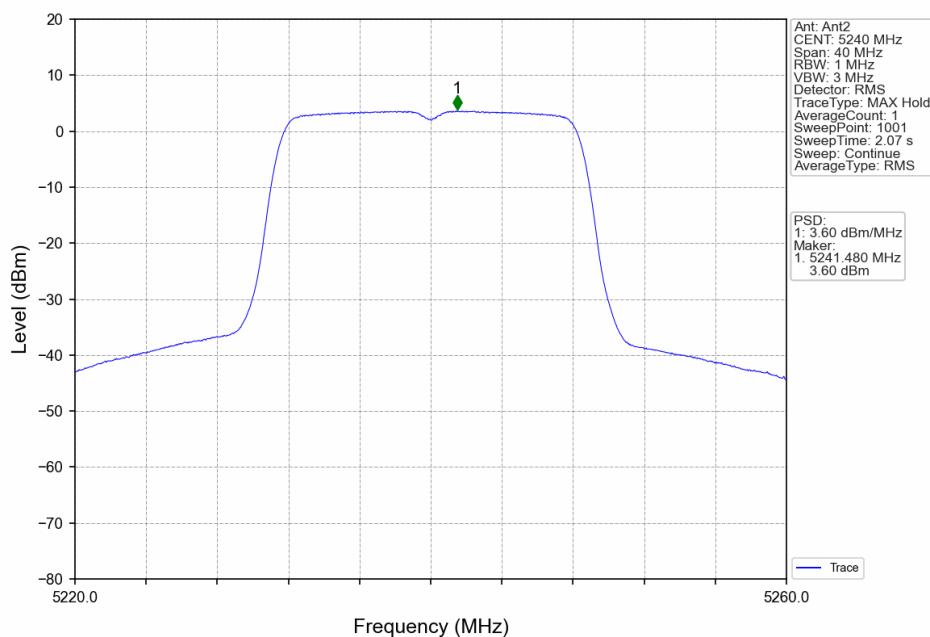
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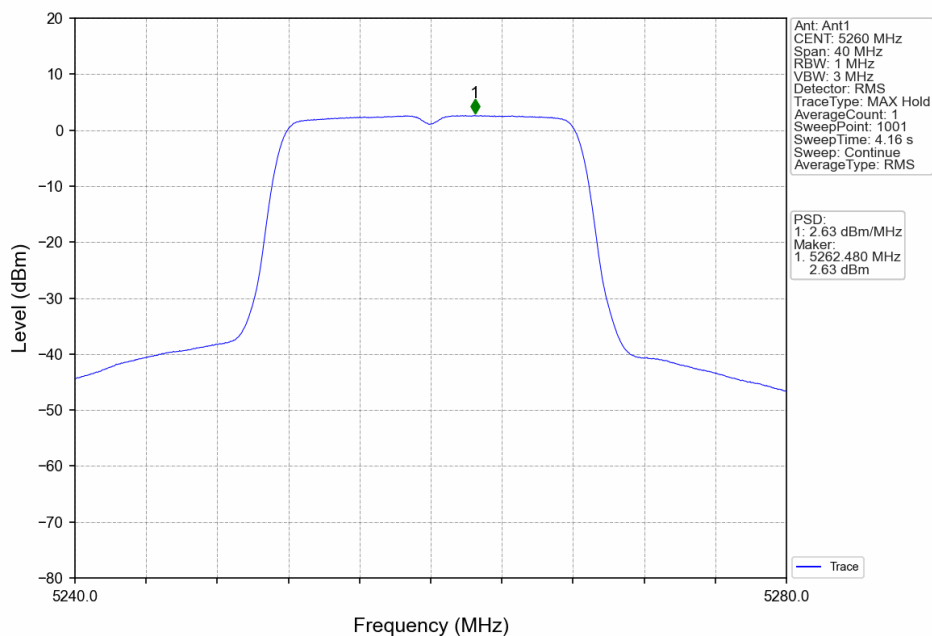
802.11a_HCH_5240MHz_Ant1_NTNV



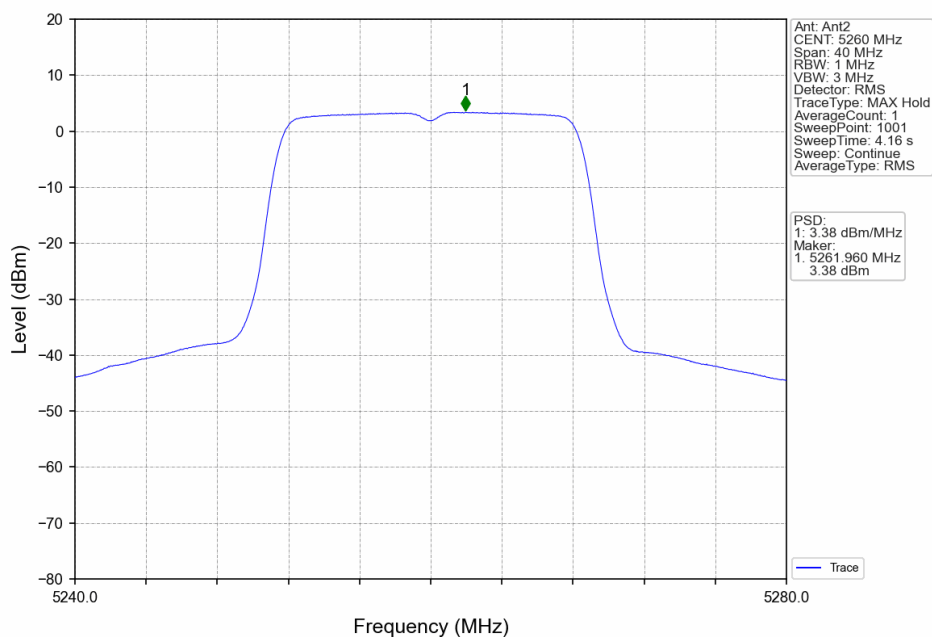
802.11a_HCH_5240MHz_Ant2_NTNV



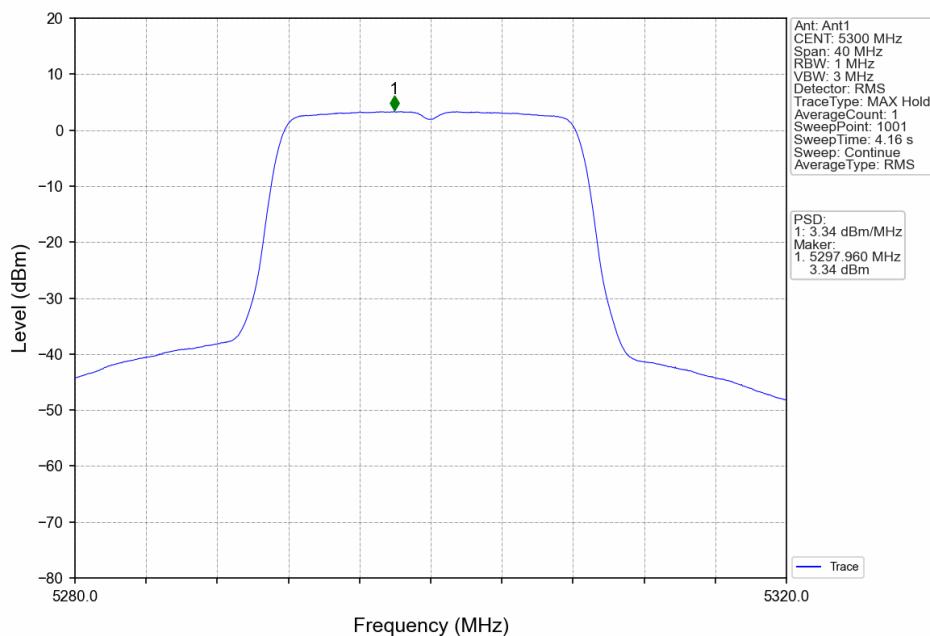
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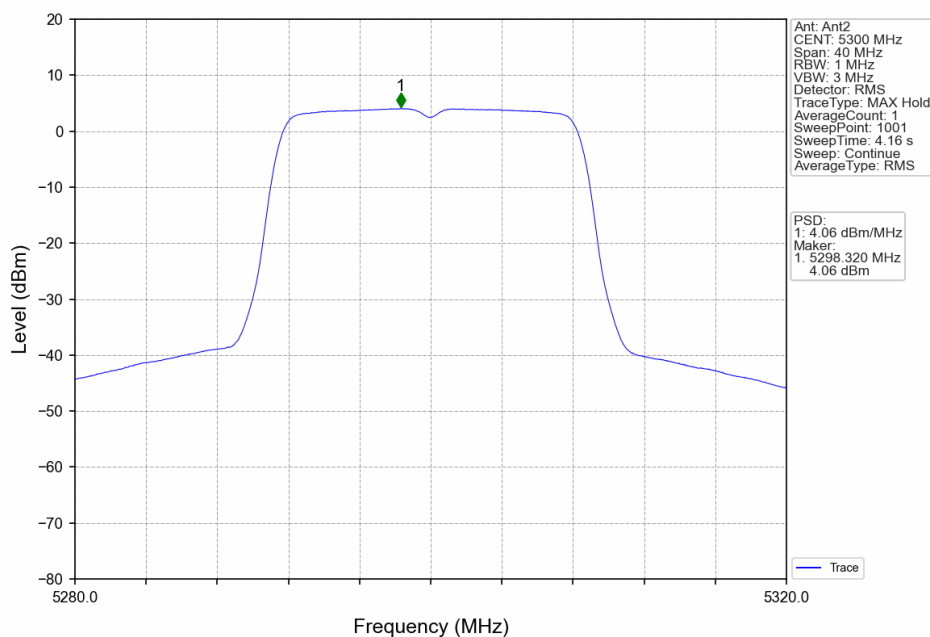
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_MCH_5300MHz_Ant2_NTNV



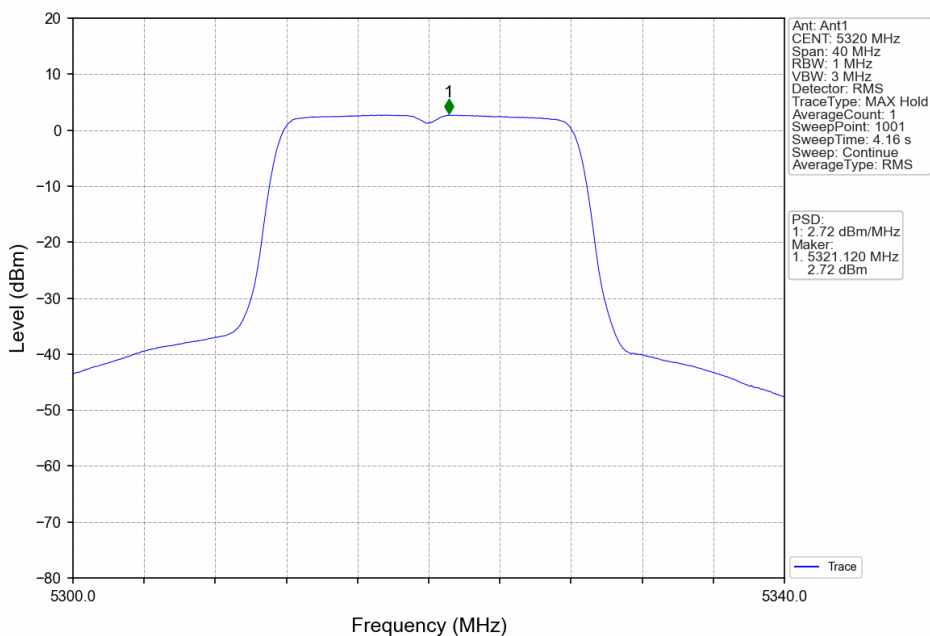
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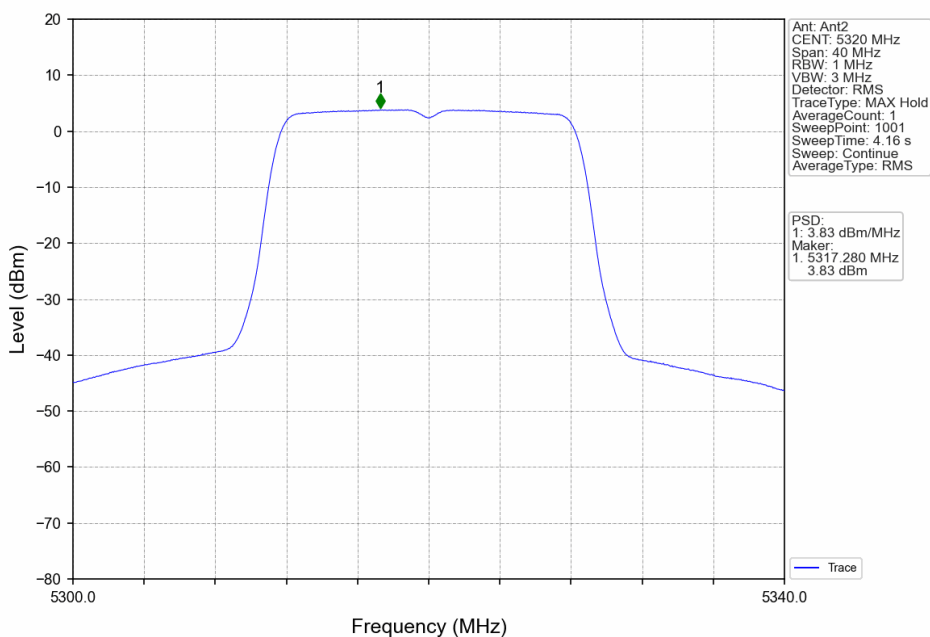
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802.11a_HCH_5320MHz_Ant1_NTNV



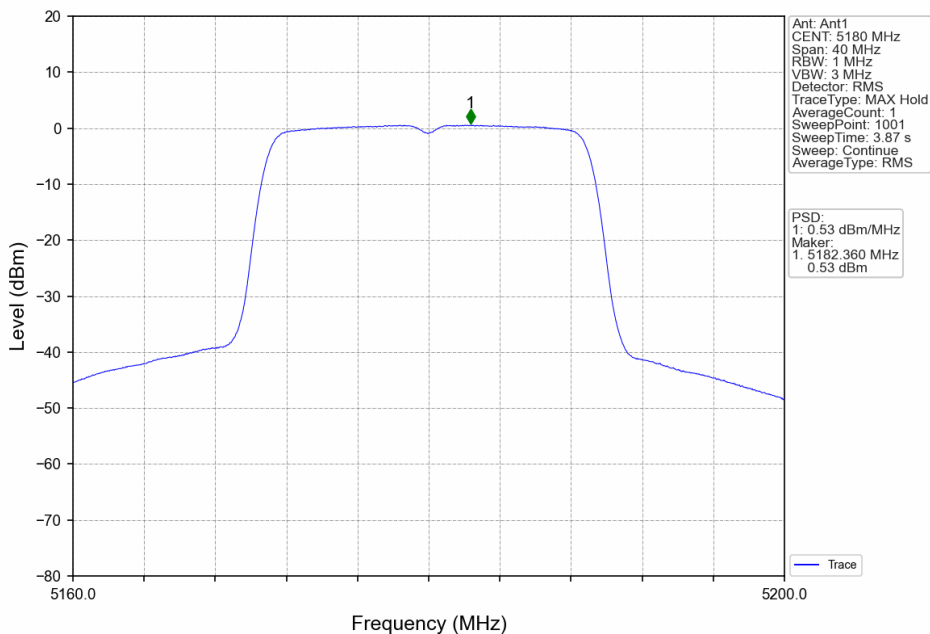
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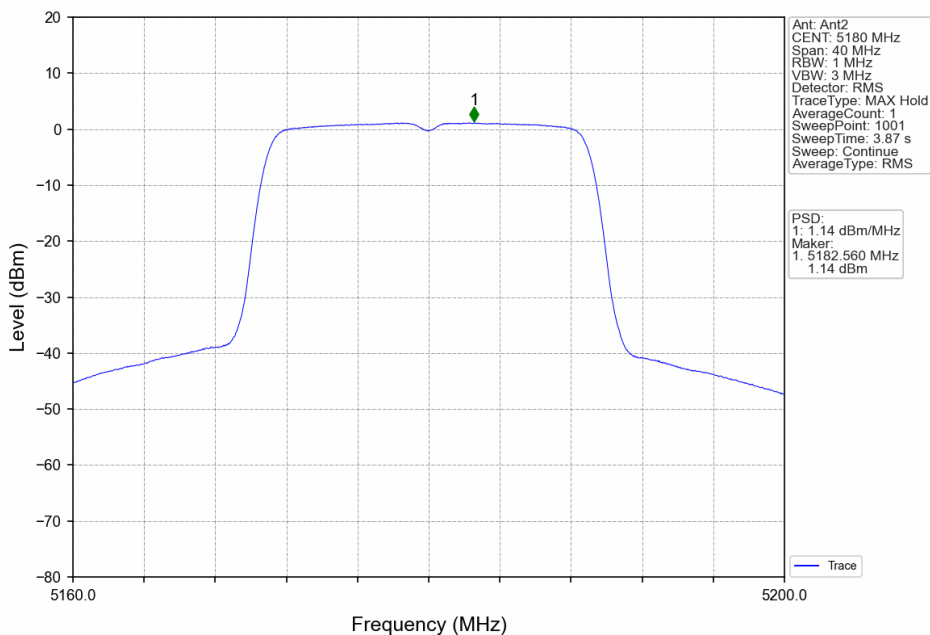
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



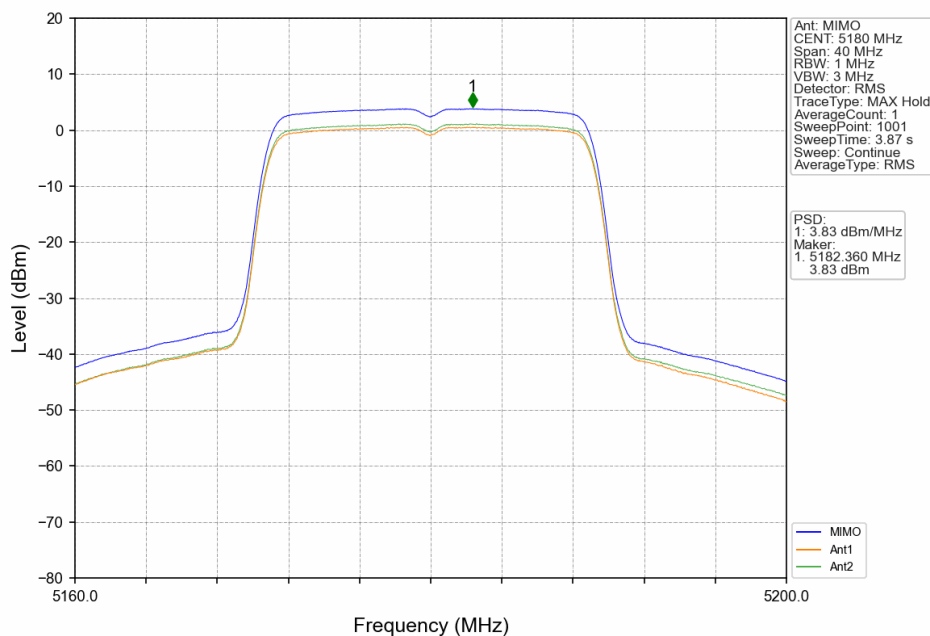
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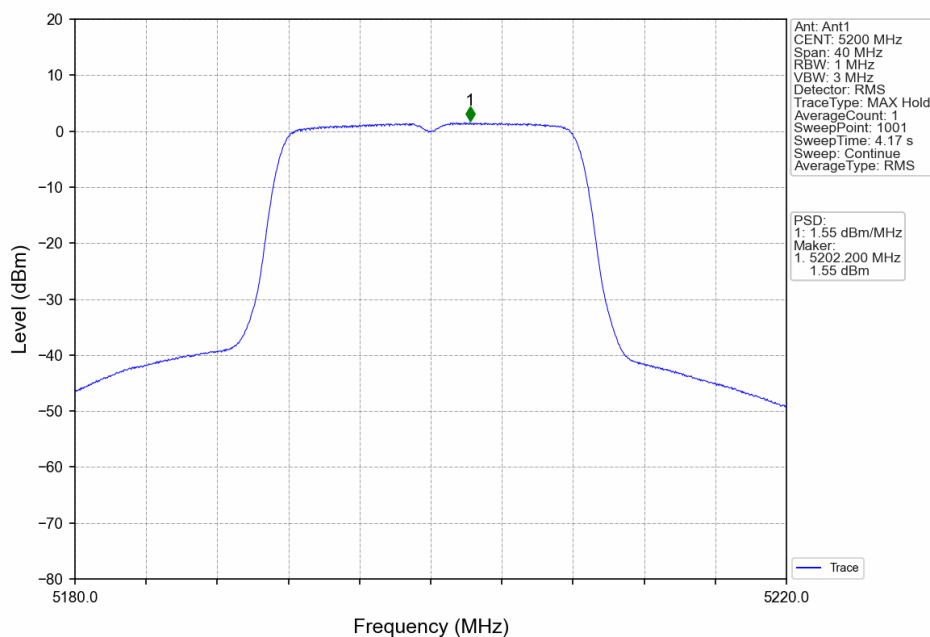
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802.11n(HT20)_LCH_5180MHz_MIMO_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



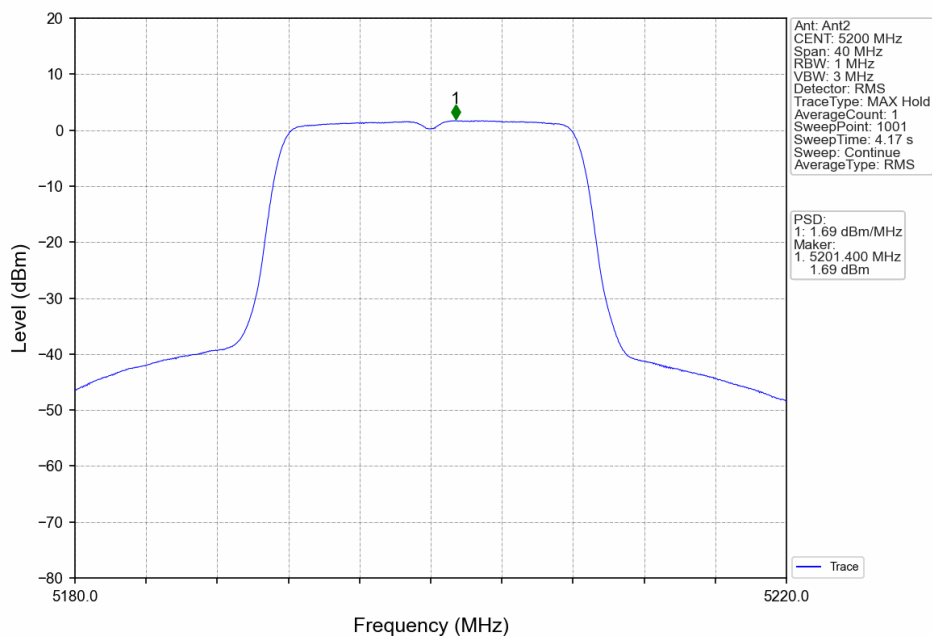
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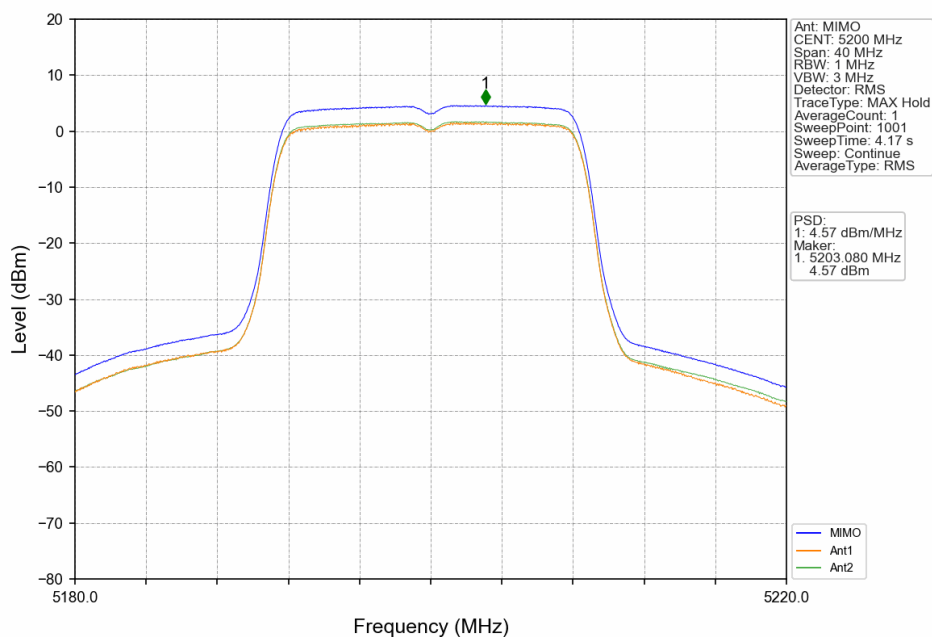
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802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



802.11n(HT20)_MCH_5200MHz_MIMO_NTNV



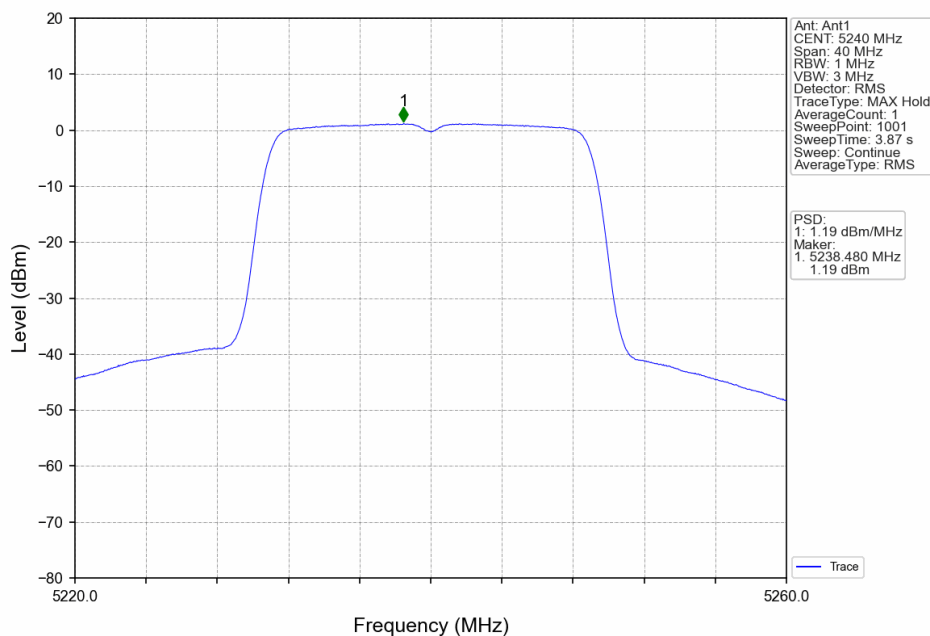
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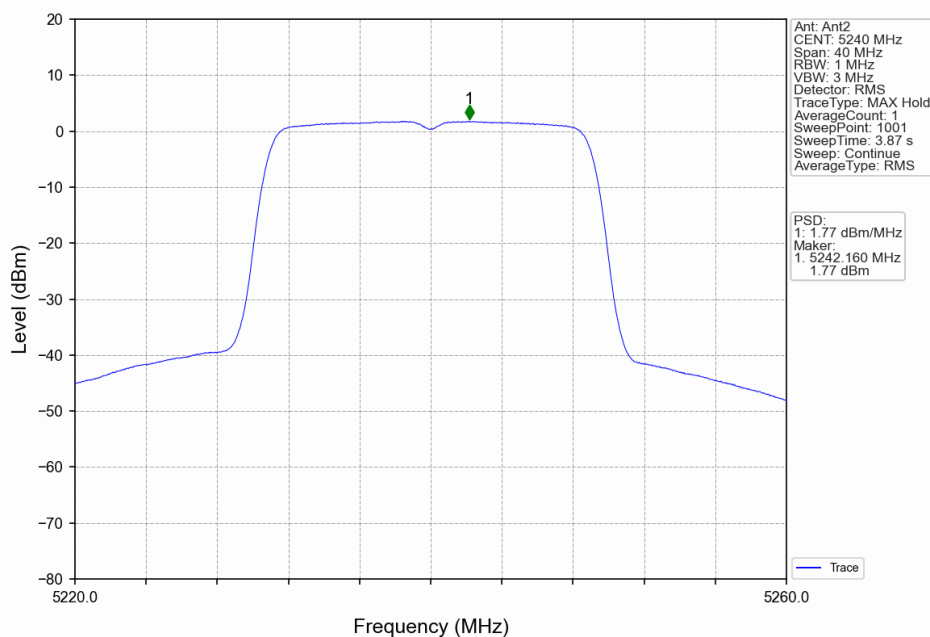
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



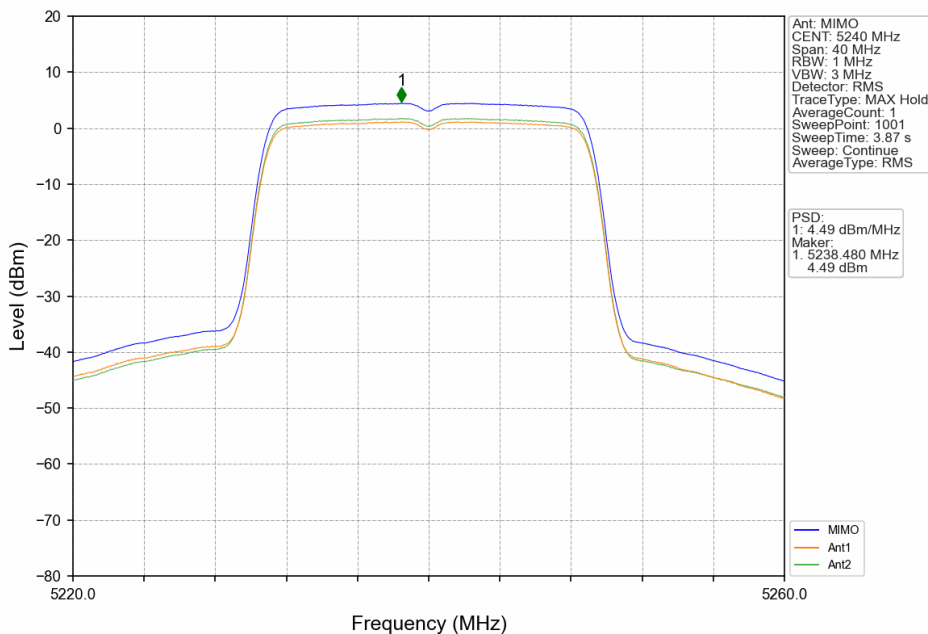
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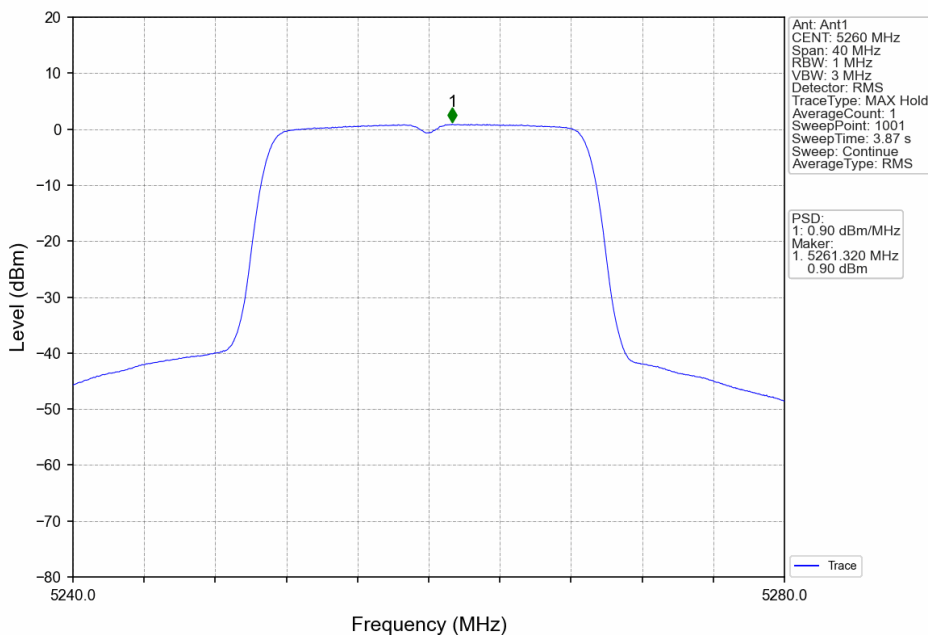
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802.11n(HT20)_HCH_5240MHz_MIMO_NTNV



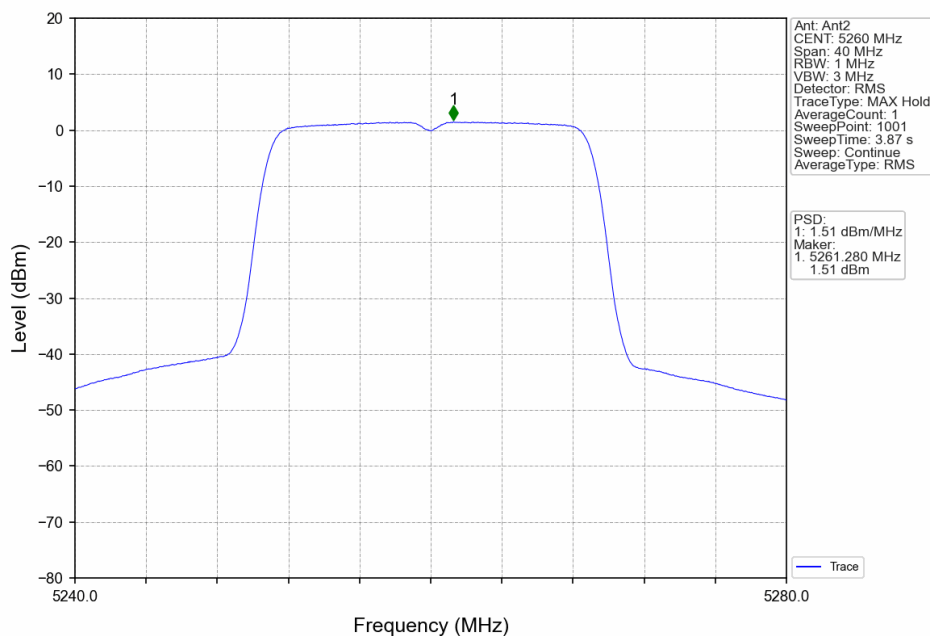
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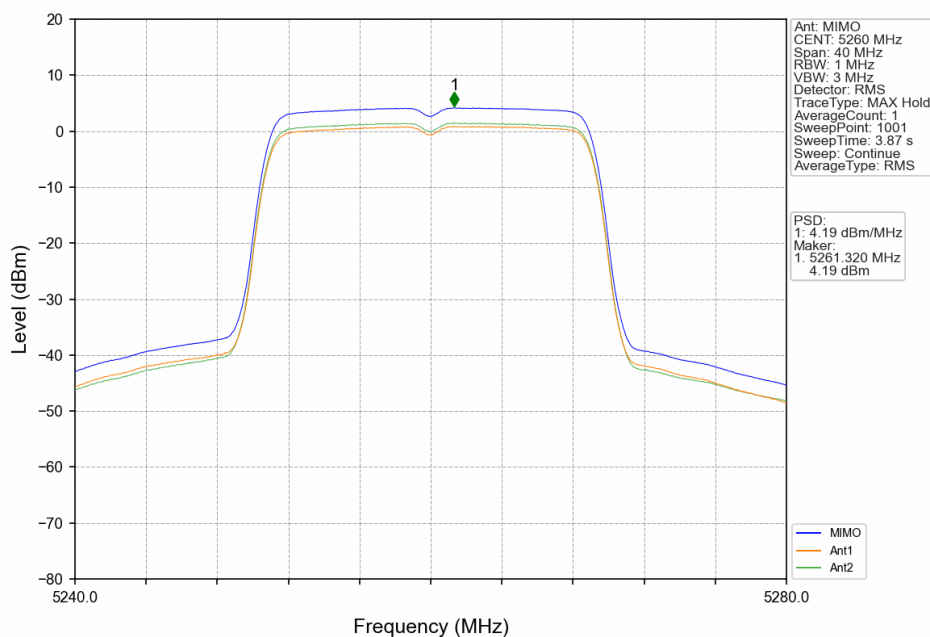
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802.11n(HT20)_LCH_5260MHz_Ant2_NTNV



802.11n(HT20)_LCH_5260MHz_MIMO_NTNV



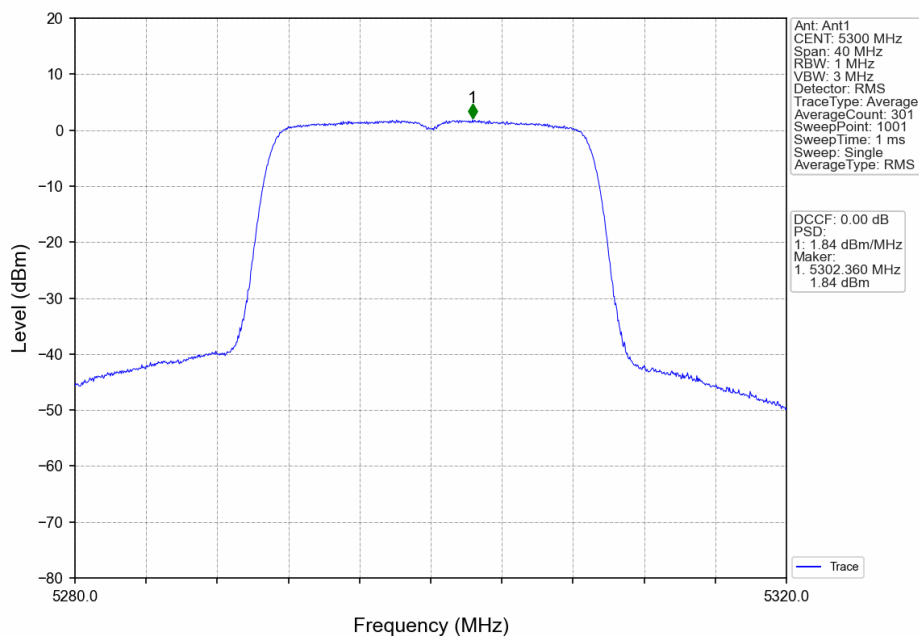
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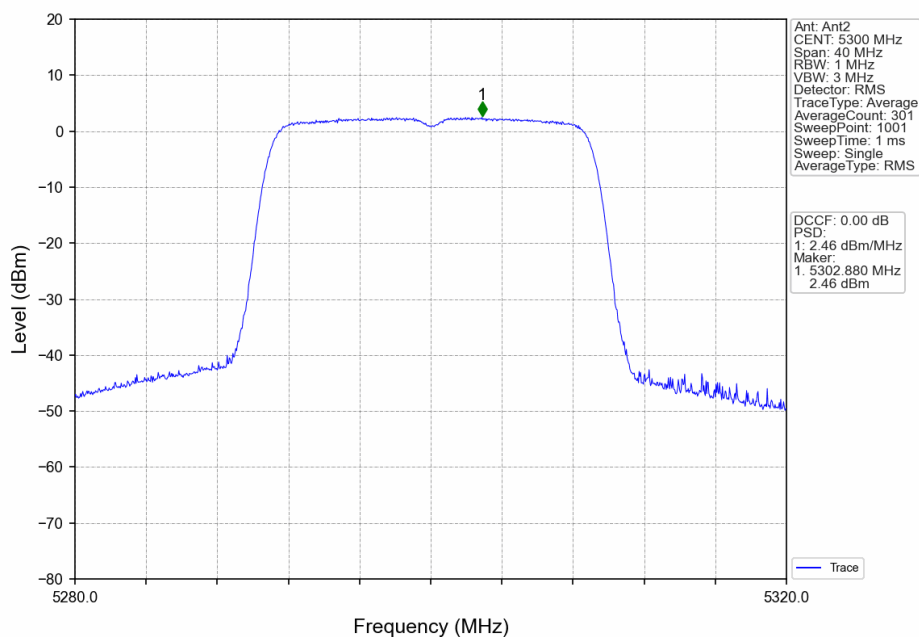
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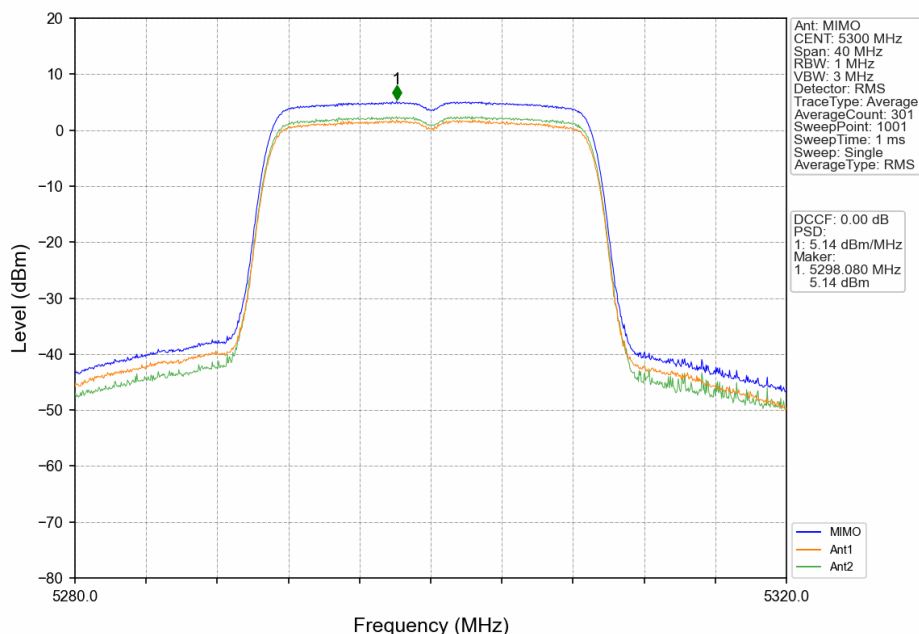
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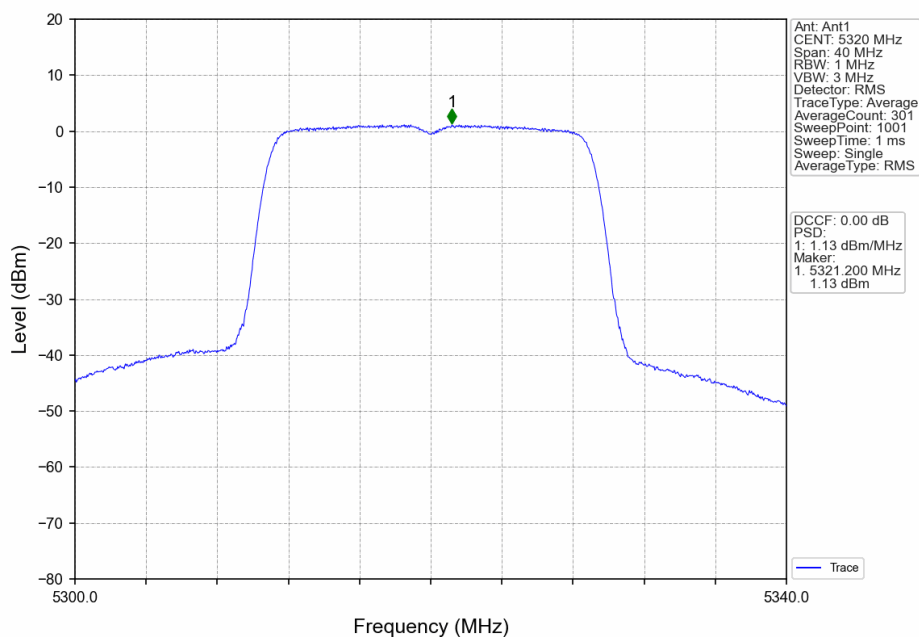
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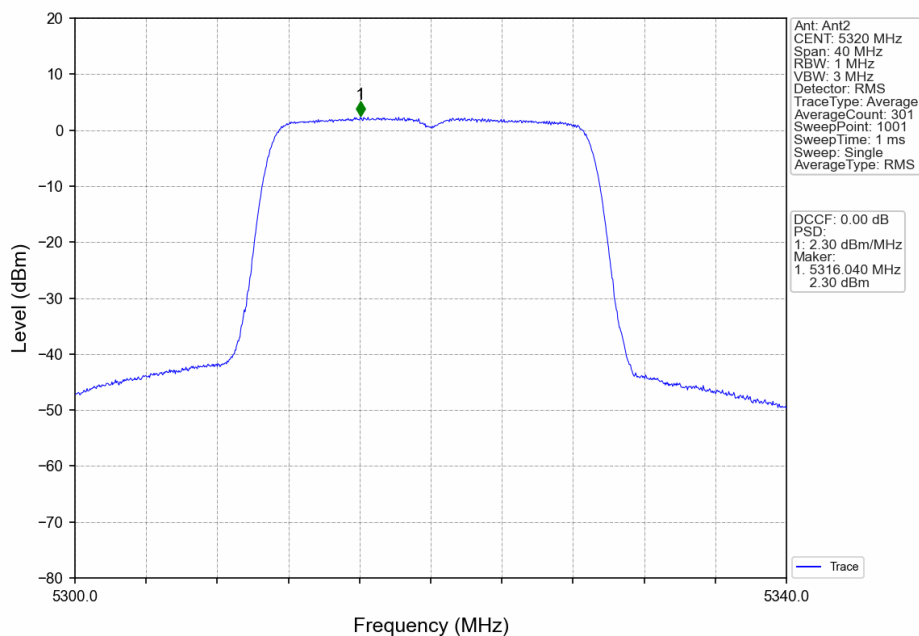
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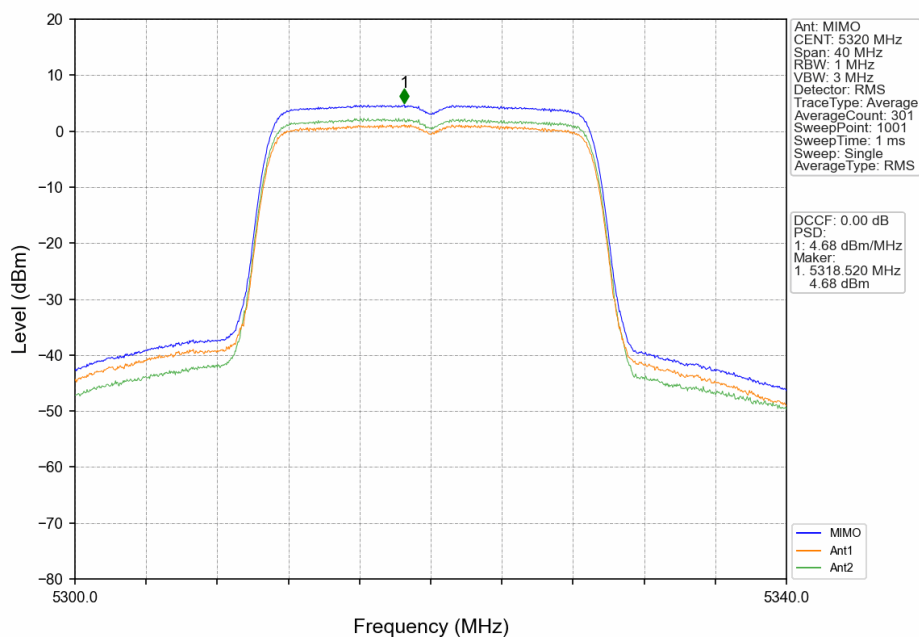
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802.11n(HT20)_HCH_5320MHz_Ant2_NTNV



802.11n(HT20)_HCH_5320MHz_MIMO_NTNV



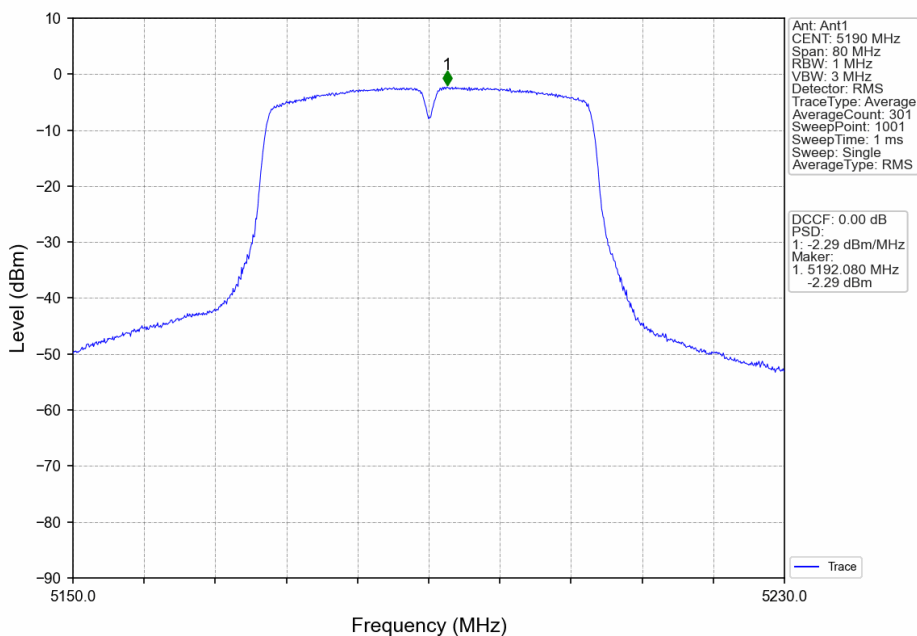
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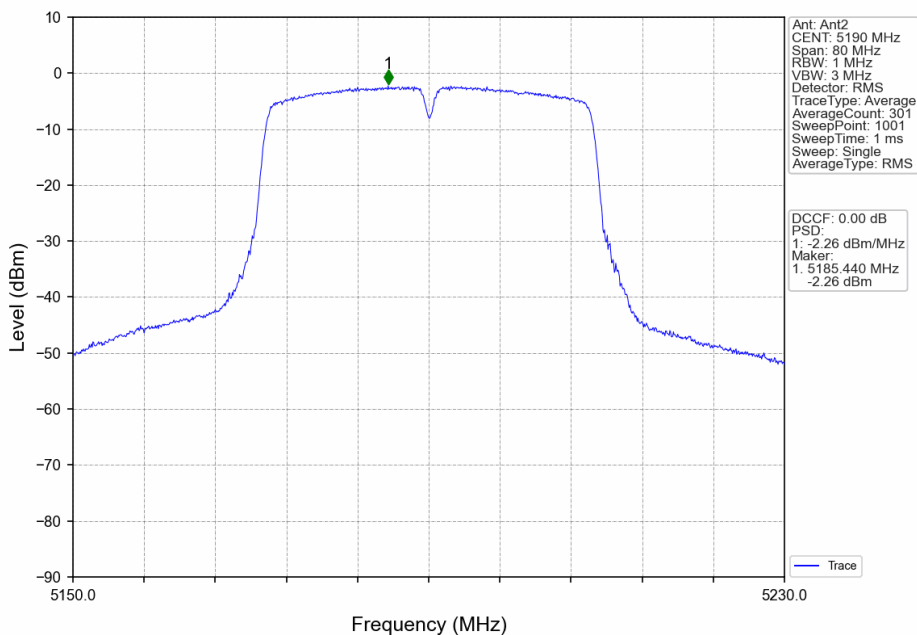
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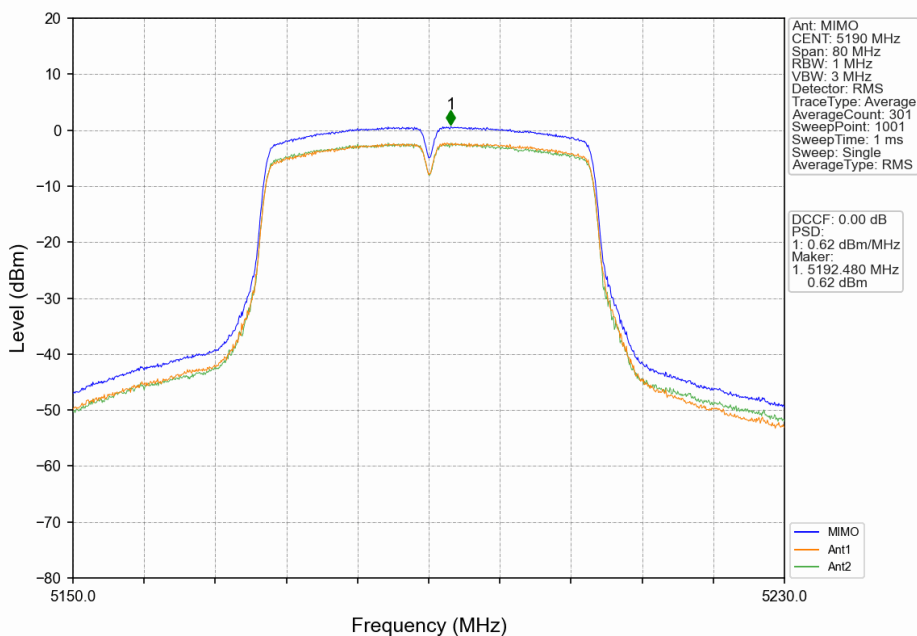
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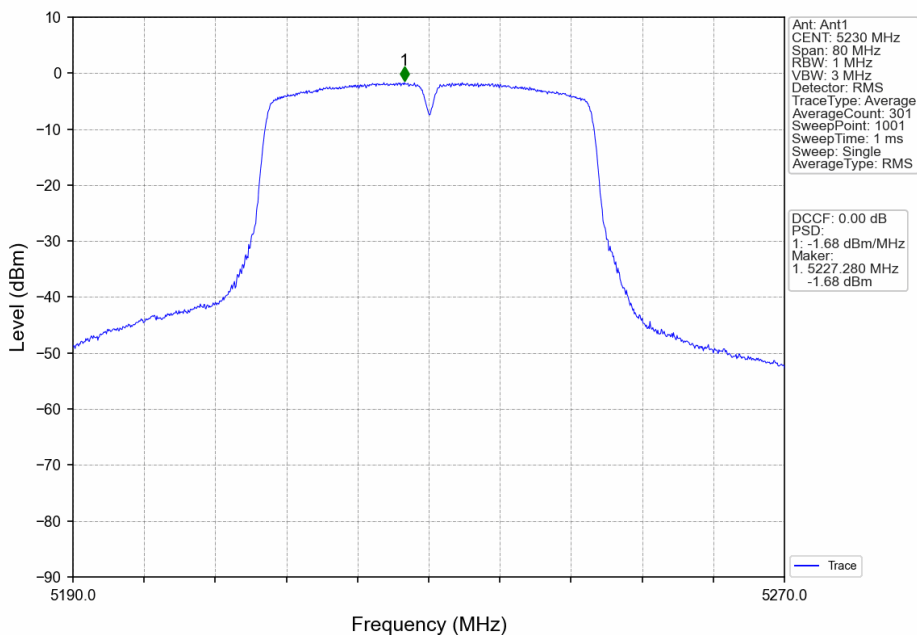
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



802.11n(HT40)_LCH_5190MHz_MIMO_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



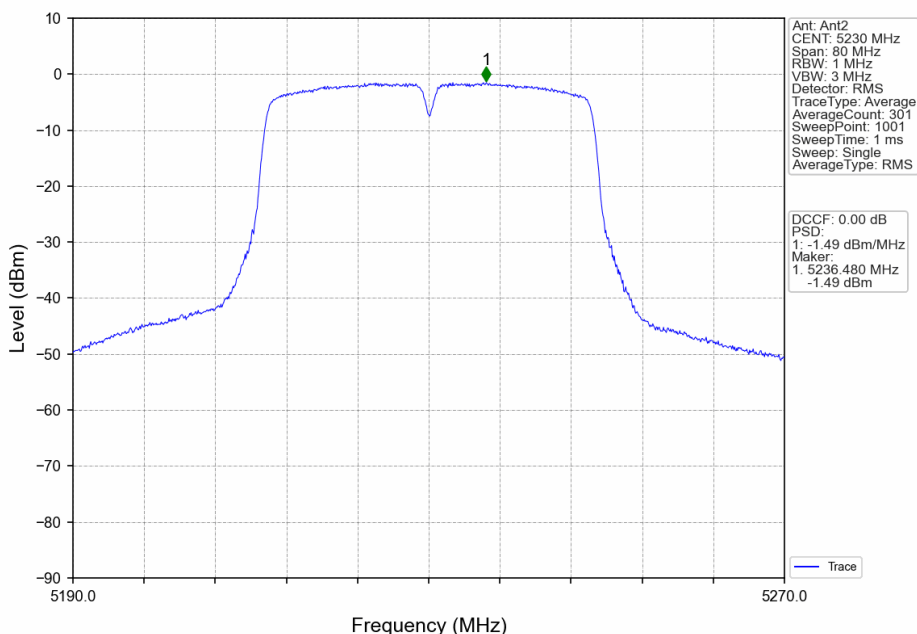
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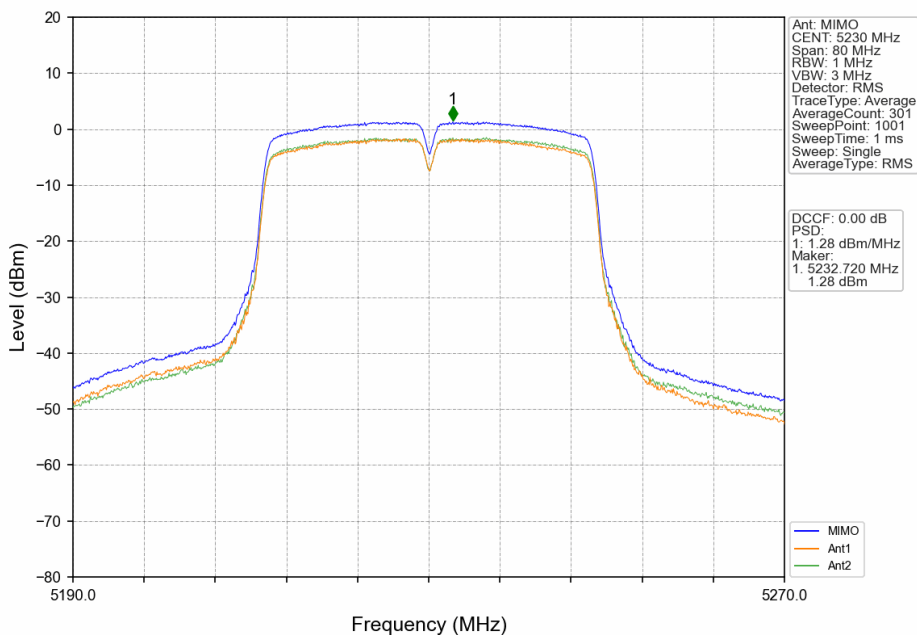
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802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



802.11n(HT40)_HCH_5230MHz_MIMO_NTNV



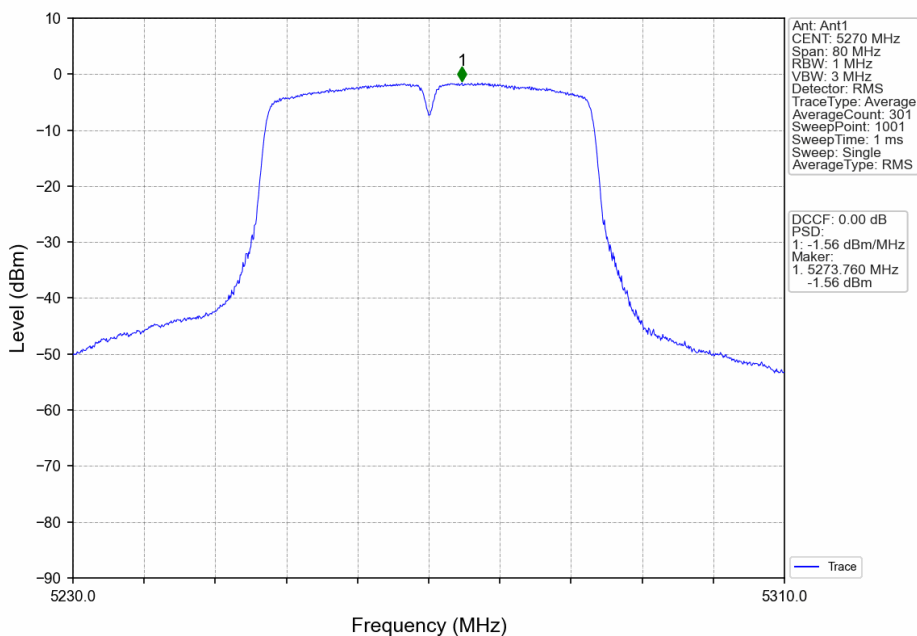
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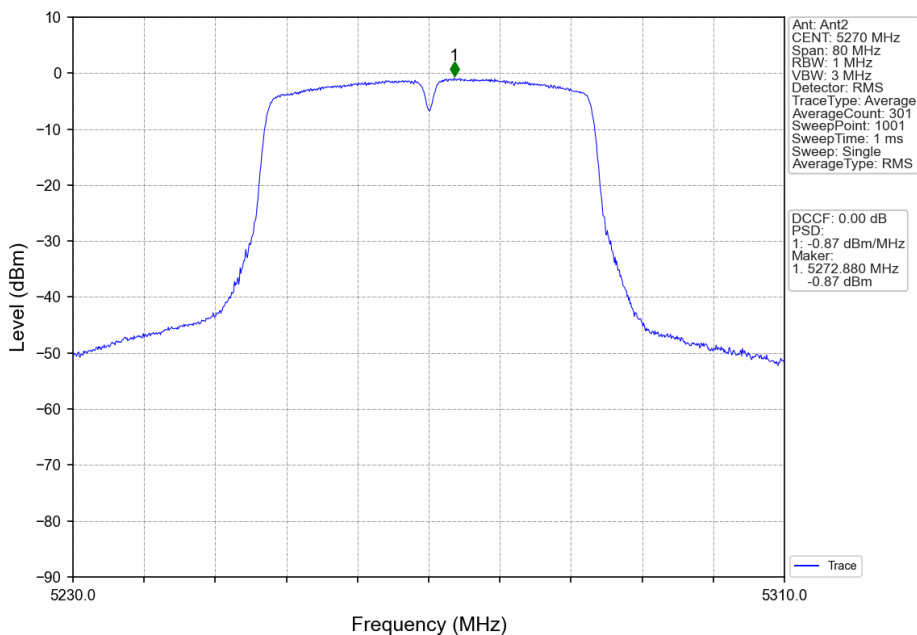
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_LCH_5270MHz_Ant2_NTNV



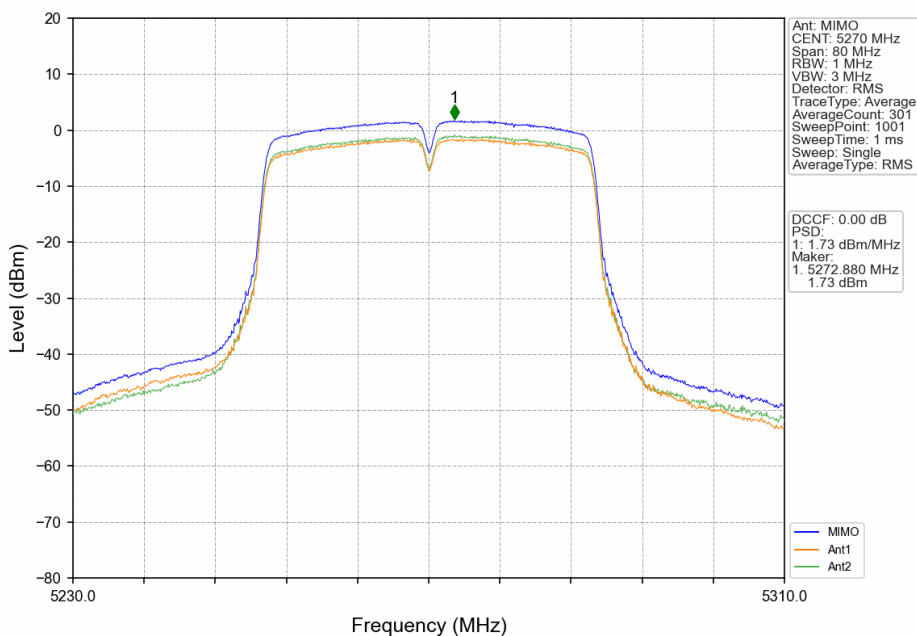
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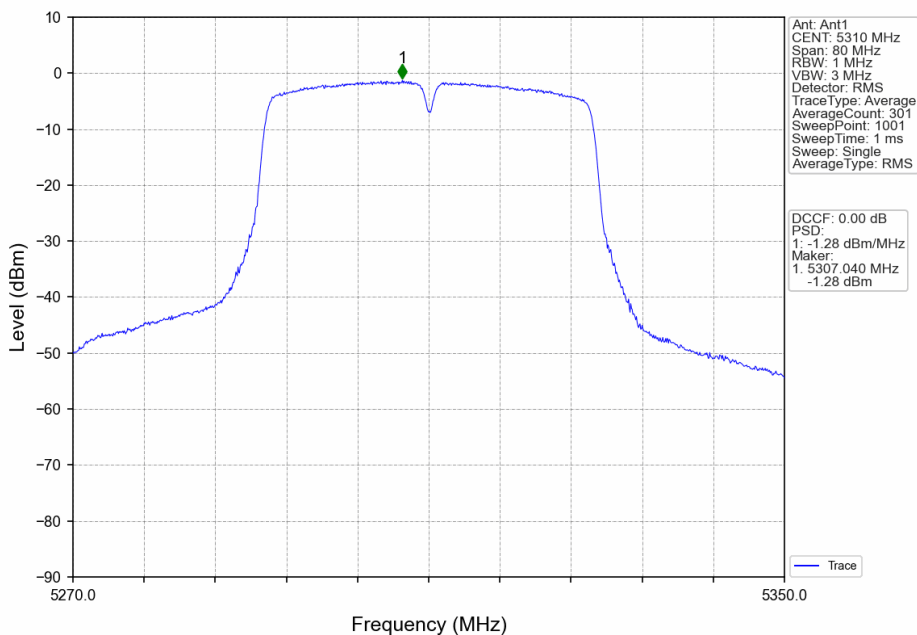
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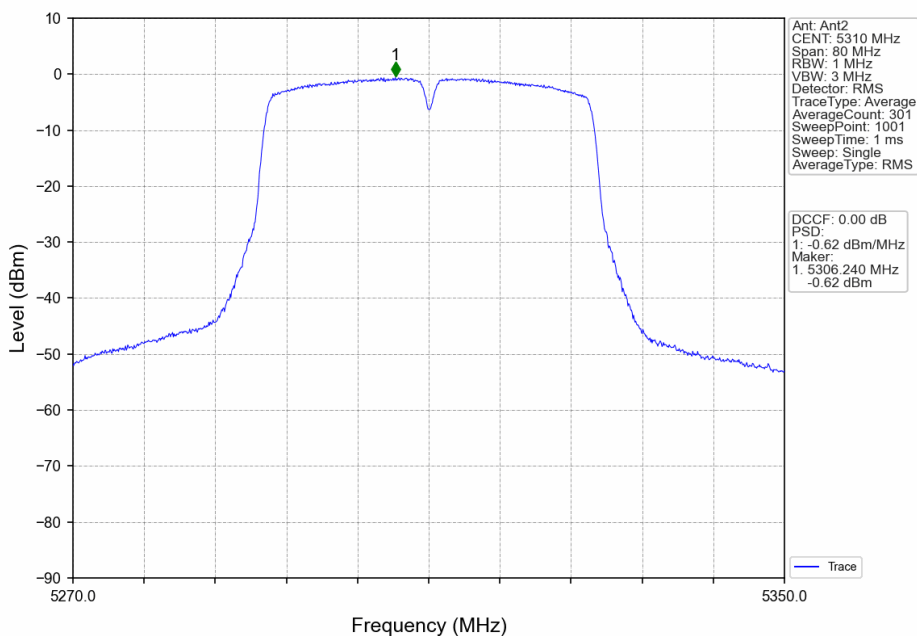
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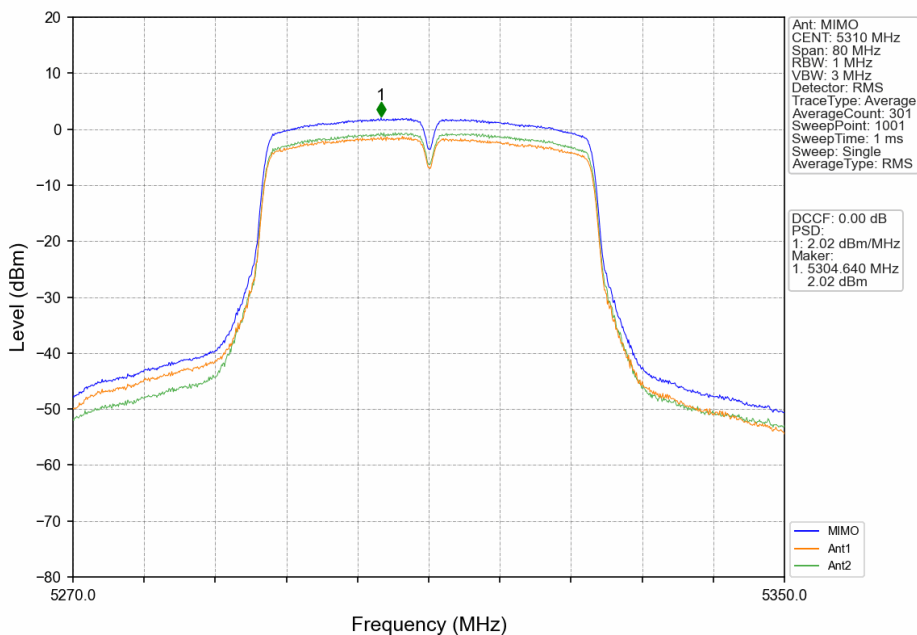
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802.11n(HT40)_HCH_5310MHz_Ant2_NTNV



802.11n(HT40)_HCH_5310MHz_MIMO_NTNV



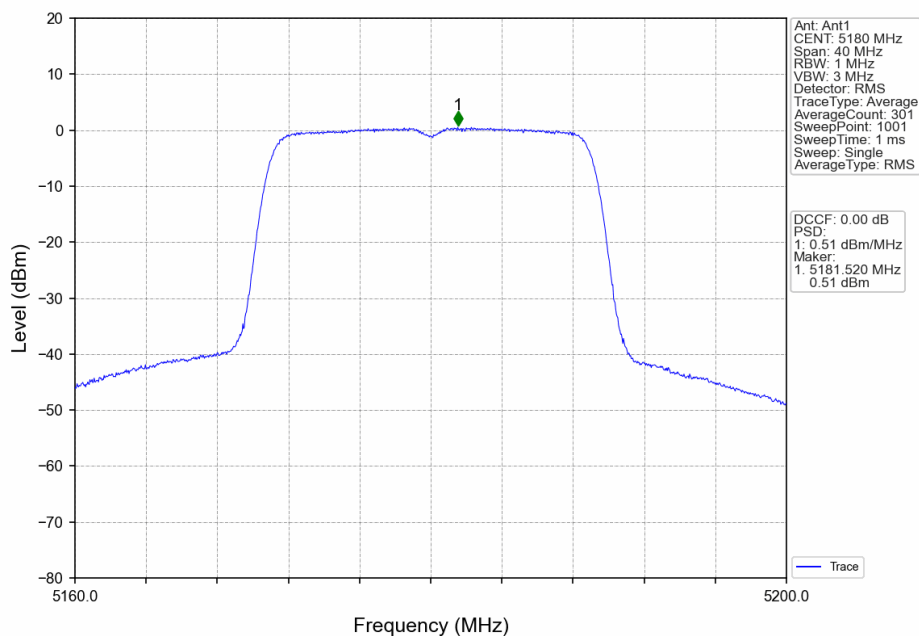
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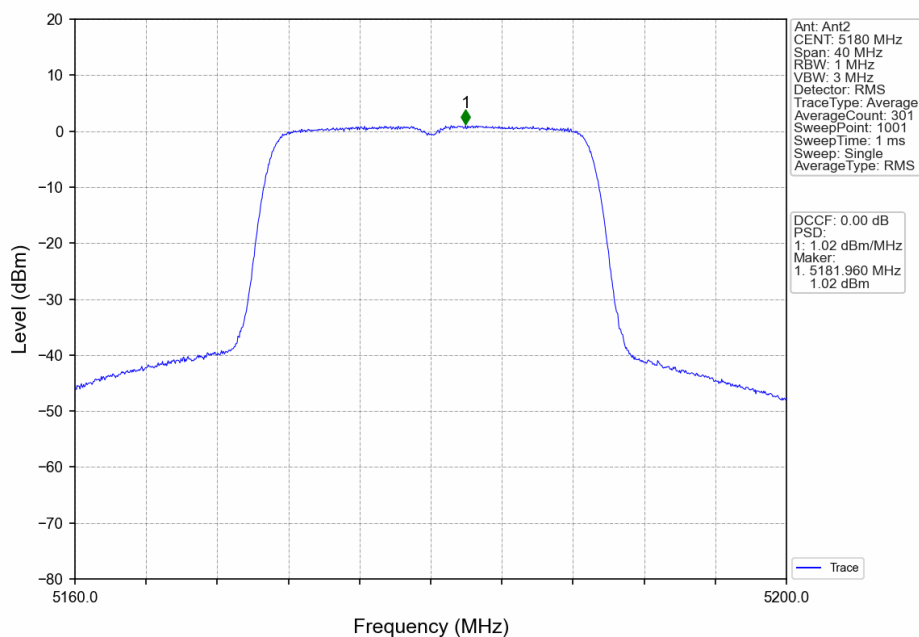
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



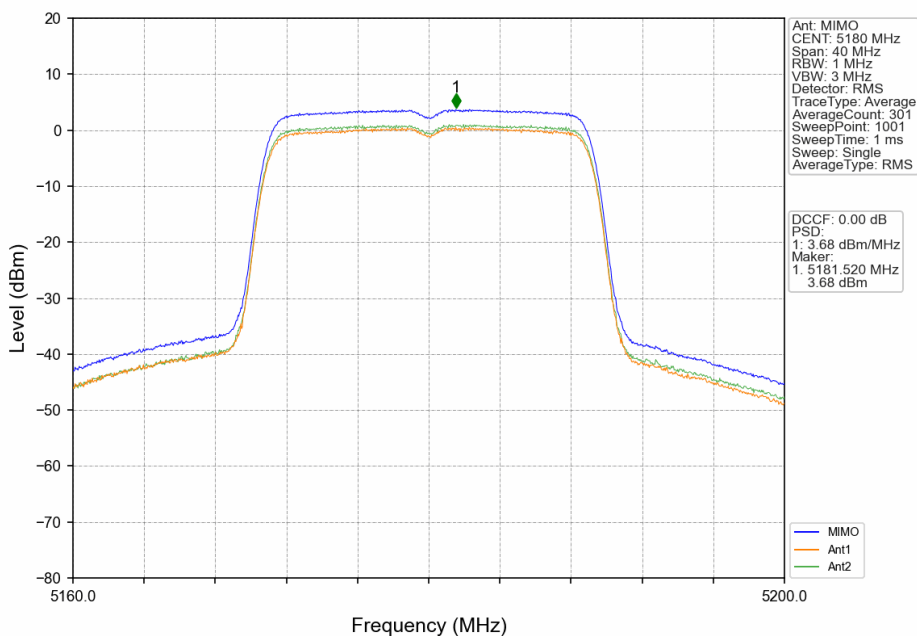
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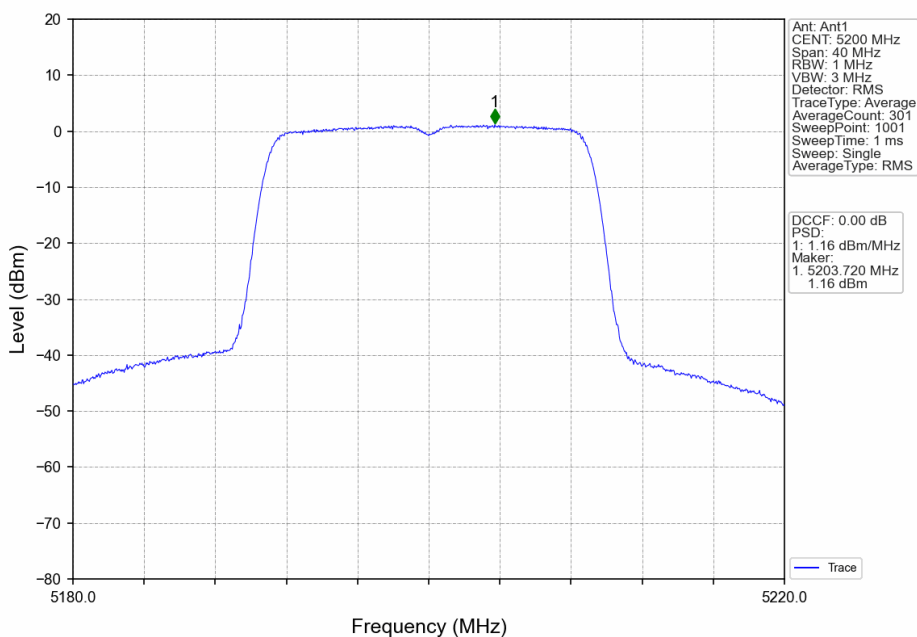
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802.11ac(VHT20)_LCH_5180MHz_MIMO_NTNV



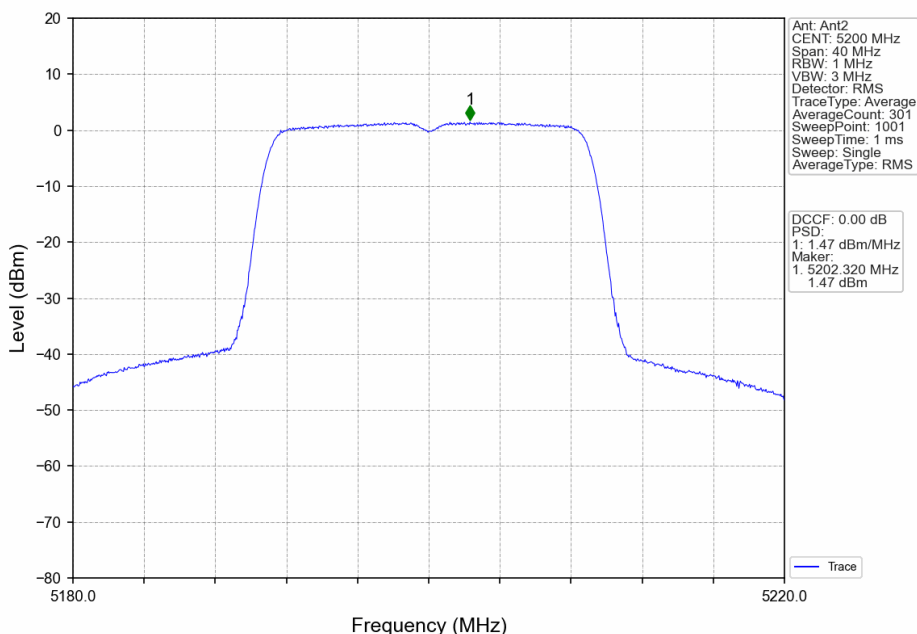
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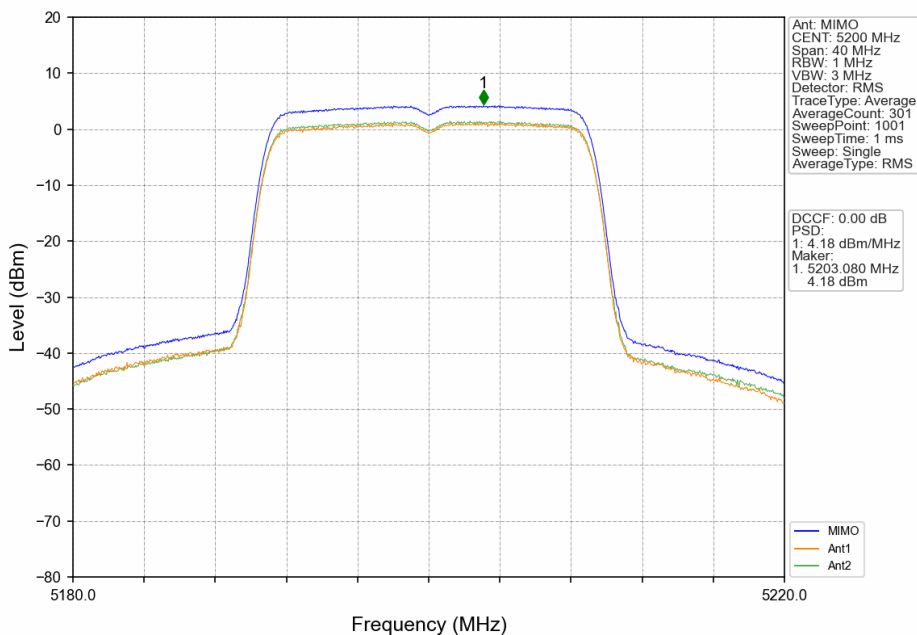
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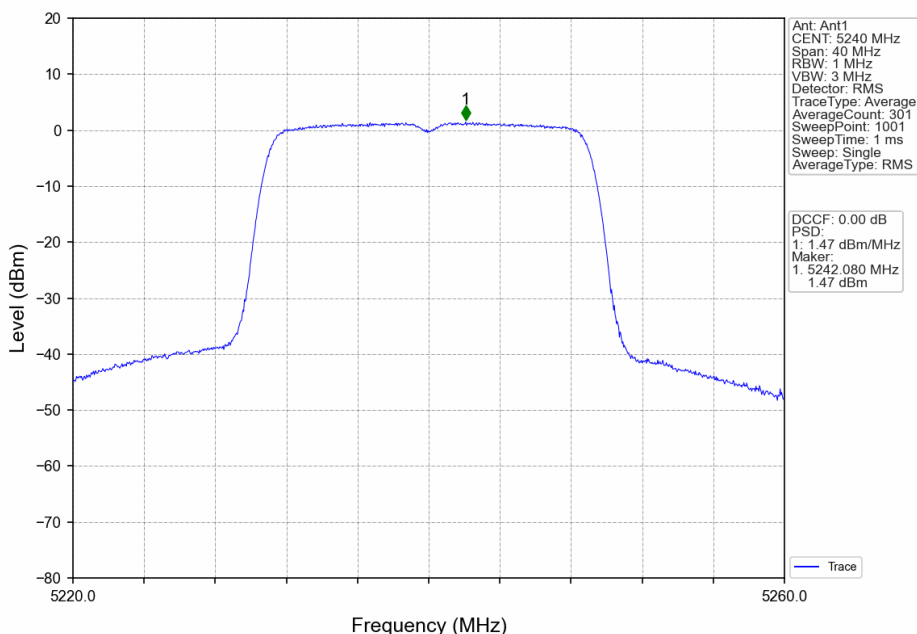
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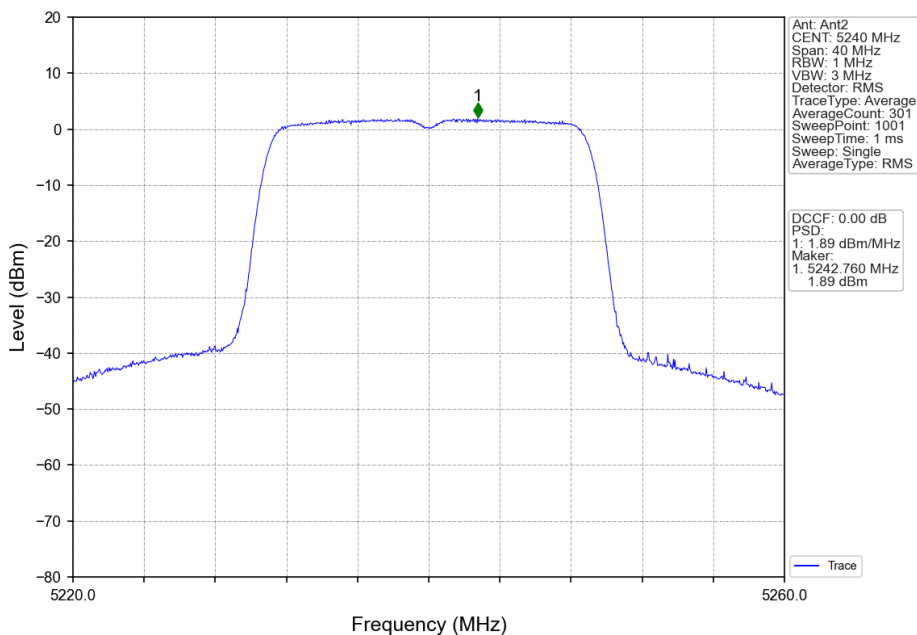
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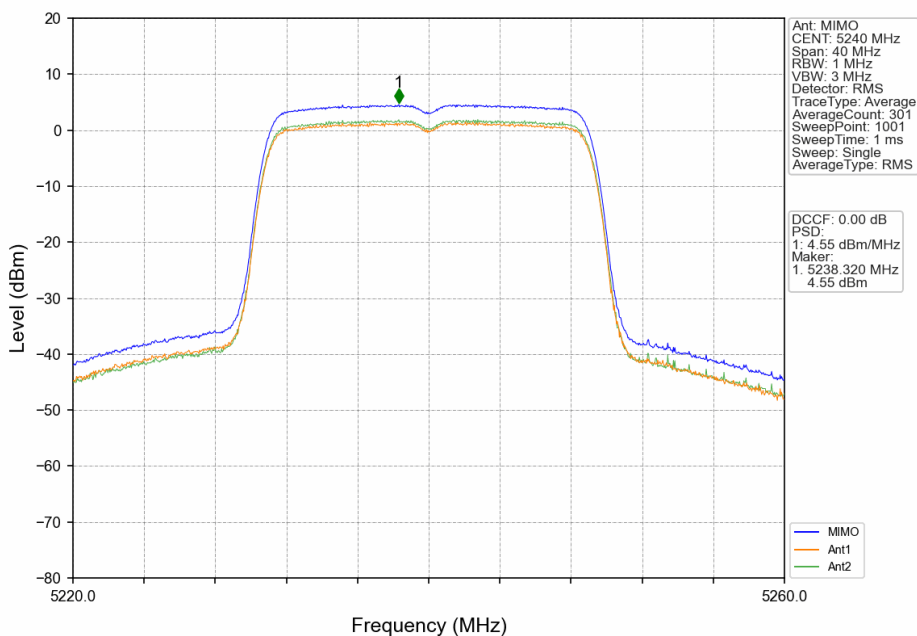
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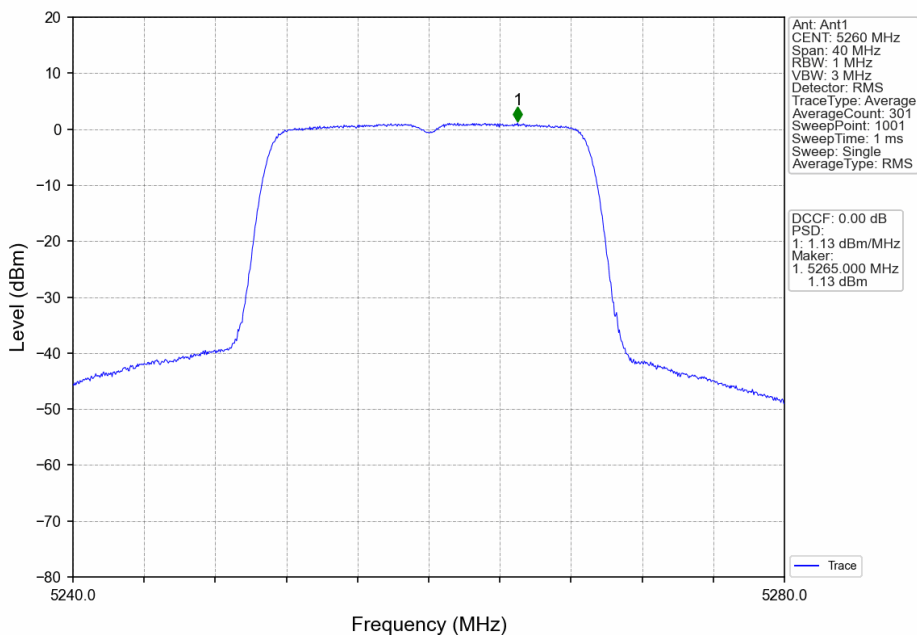
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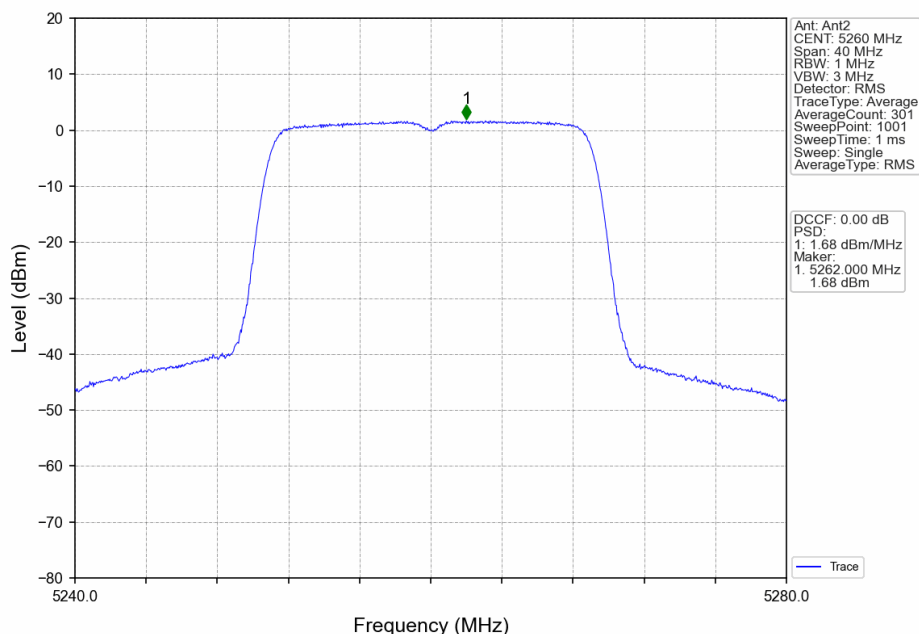
802.11ac(VHT20)_HCH_5240MHz_MIMO_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant2_NTNV



802.11ac(VHT20)_LCH_5260MHz_MIMO_NTNV

