1. Bandwidth

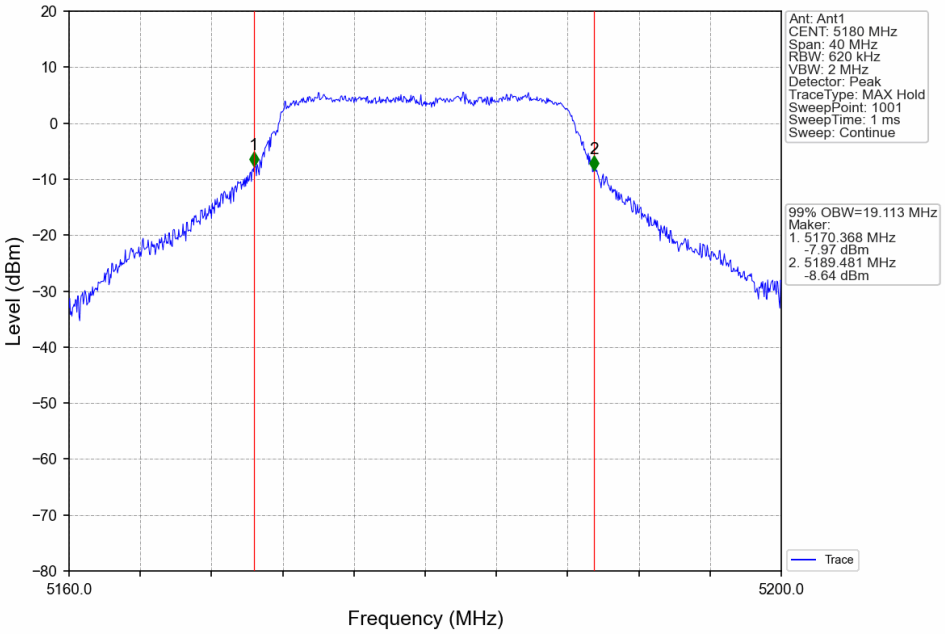
1.1 OBW

1.1.1 Test Result

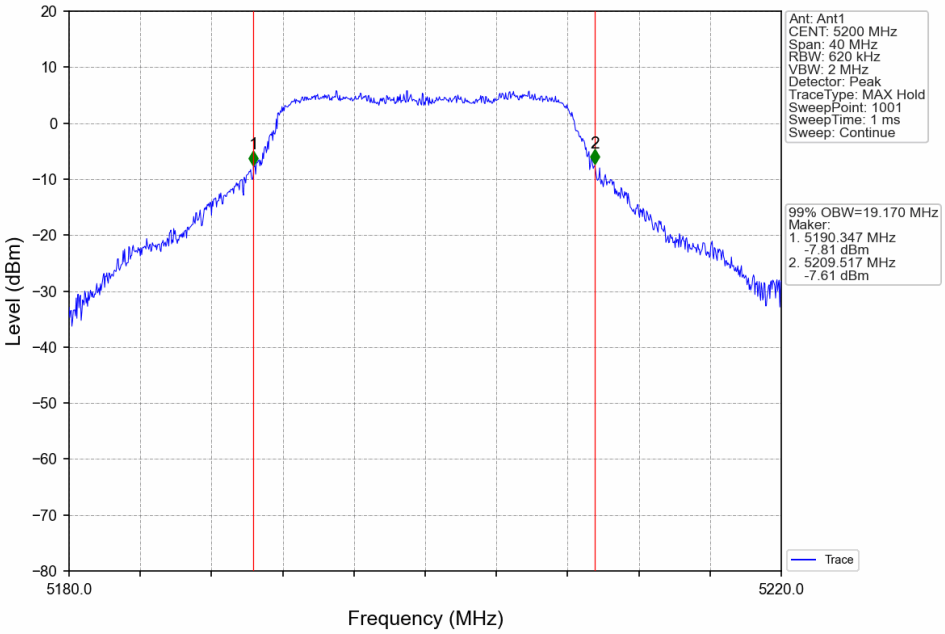
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
802.11a	SISO	5180	1	19.113	Pass
		5200	1	19.170	Pass
		5240	1	19.159	Pass
802.11n (HT20)	SISO	5180	1	20.081	Pass
		5200	1	20.121	Pass
		5240	1	19.898	Pass
802.11n (HT40)	SISO	5190	1	38.516	Pass
		5230	1	38.611	Pass
802.11ac (VHT20)	SISO	5180	1	20.113	Pass
		5200	1	20.308	Pass
		5240	1	20.230	Pass
802.11ac (VHT40)	SISO	5190	1	38.188	Pass
		5230	1	38.119	Pass

1.1.2 Test Graph

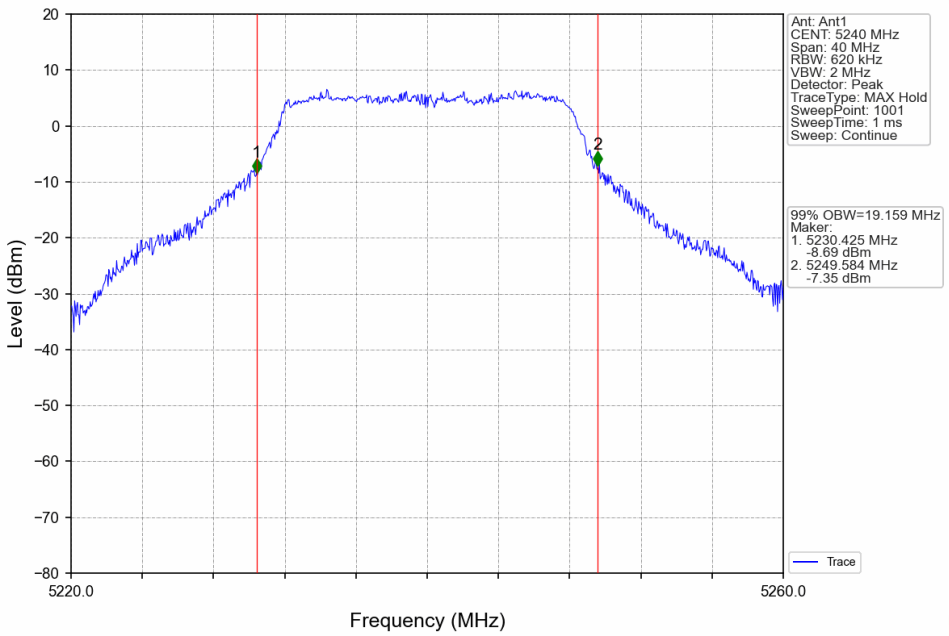
802.11a_LCH_5180MHz_Ant1_NTNV



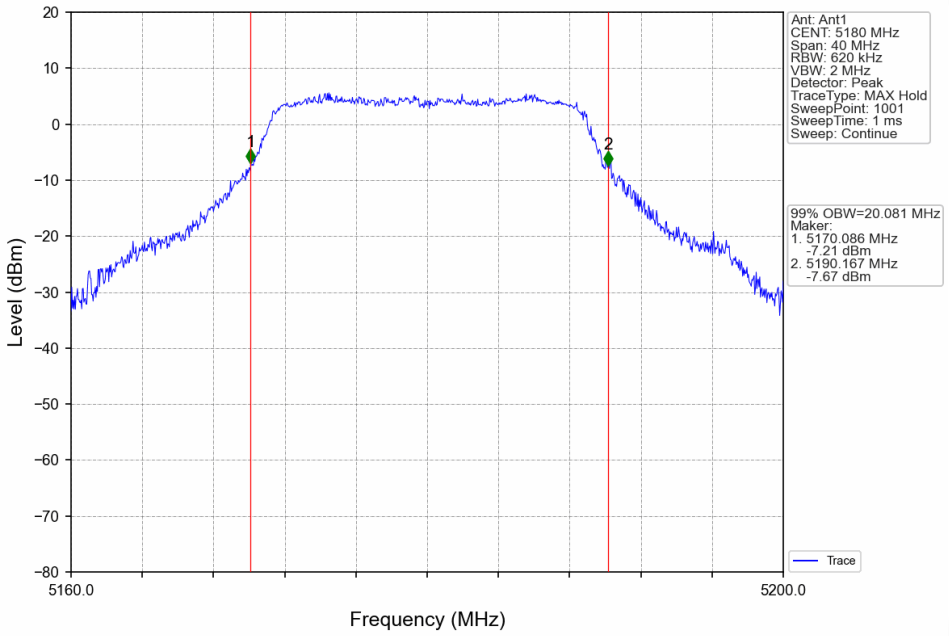
802.11a_MCH_5200MHz_Ant1_NTNV



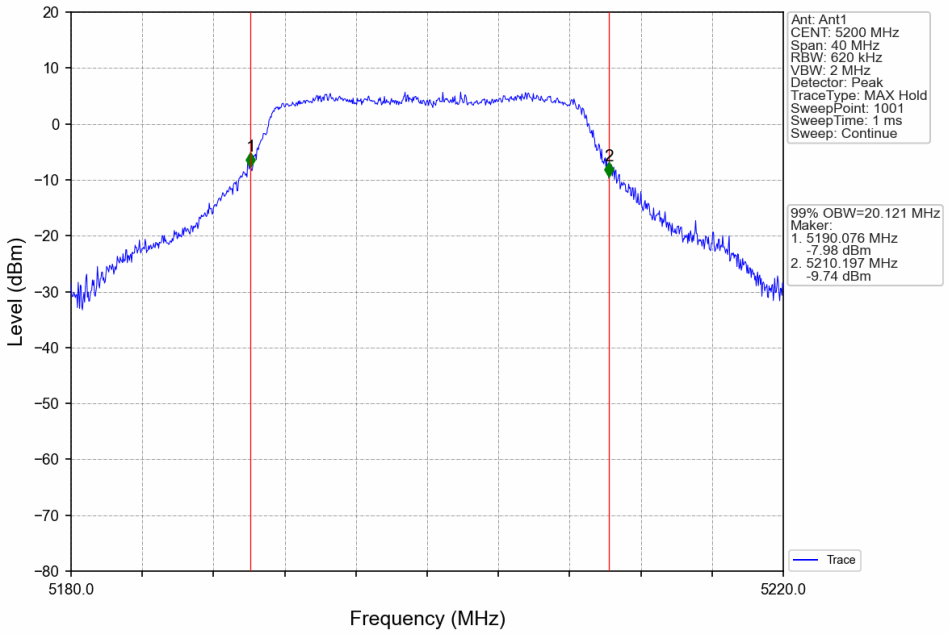
802.11a_HCH_5240MHz_Ant1_NTNV



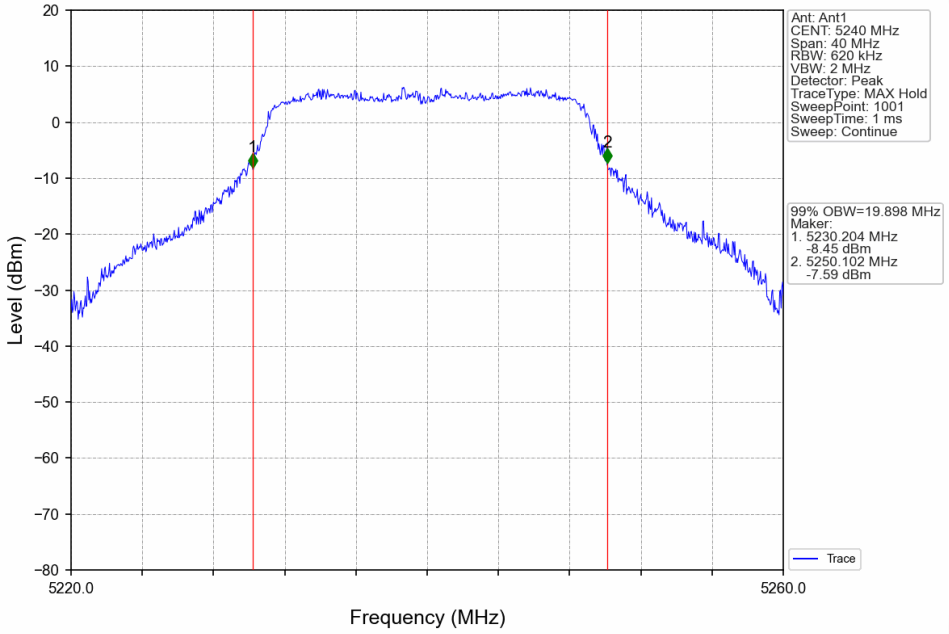
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



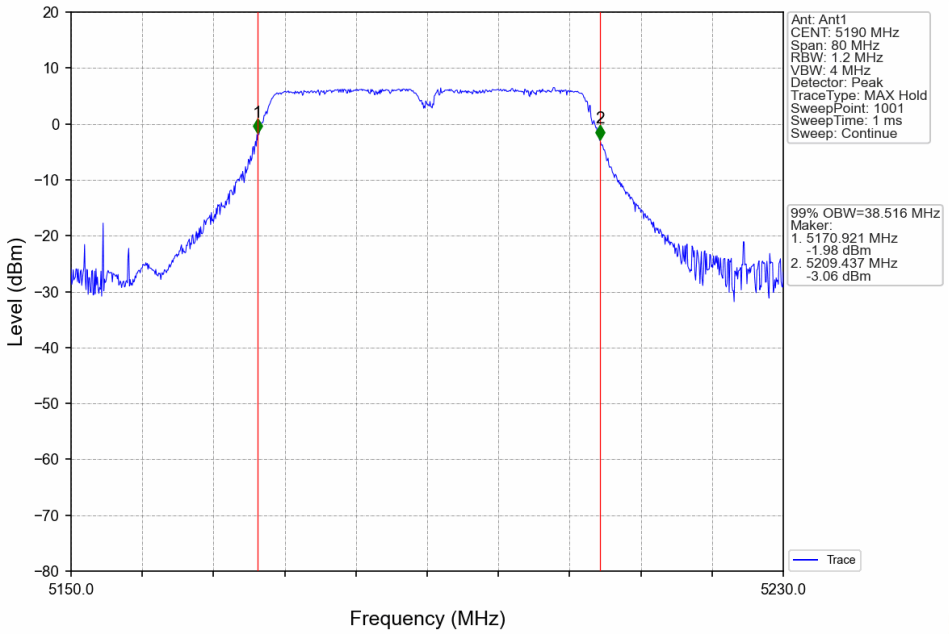
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



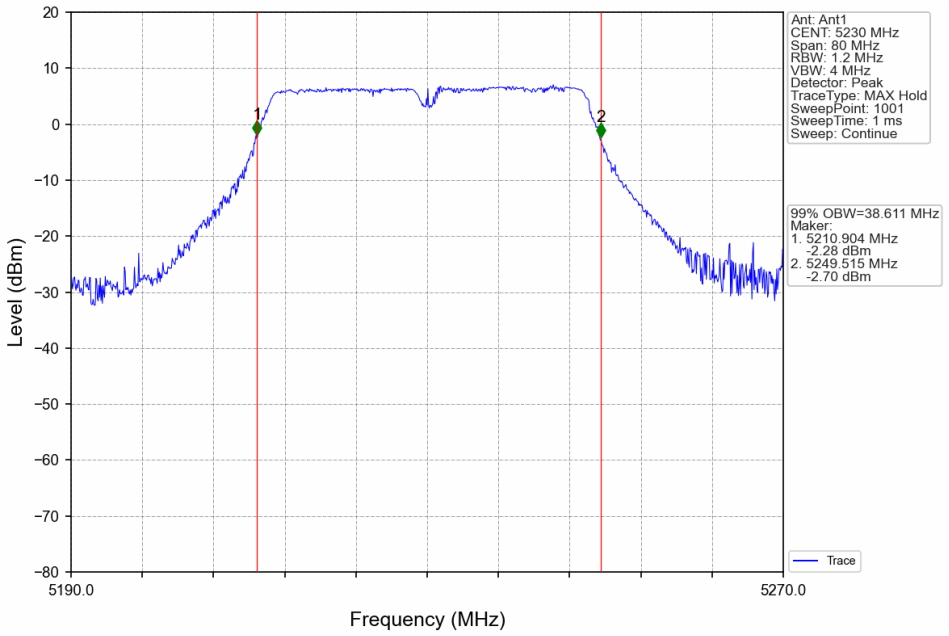
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



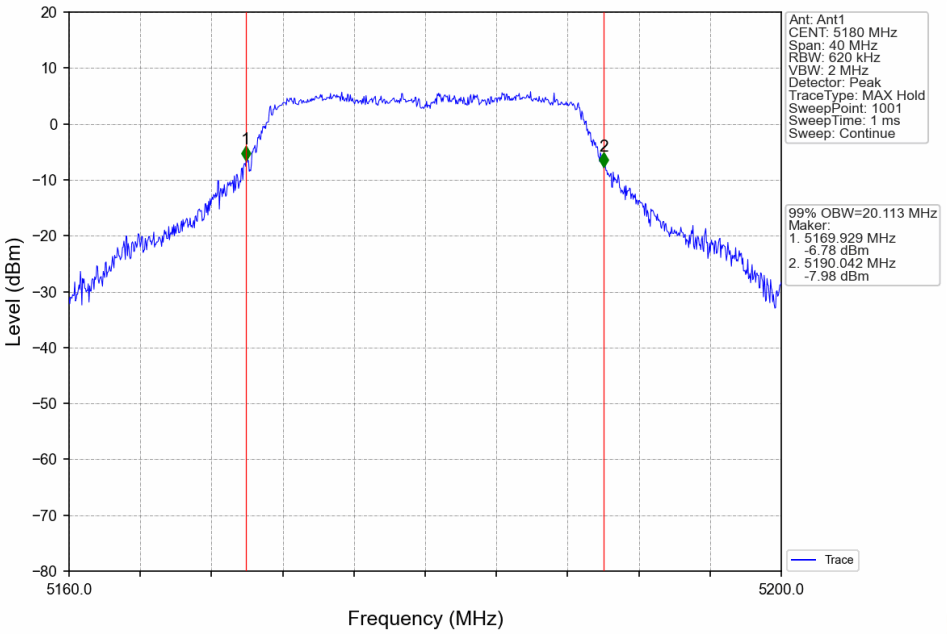
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



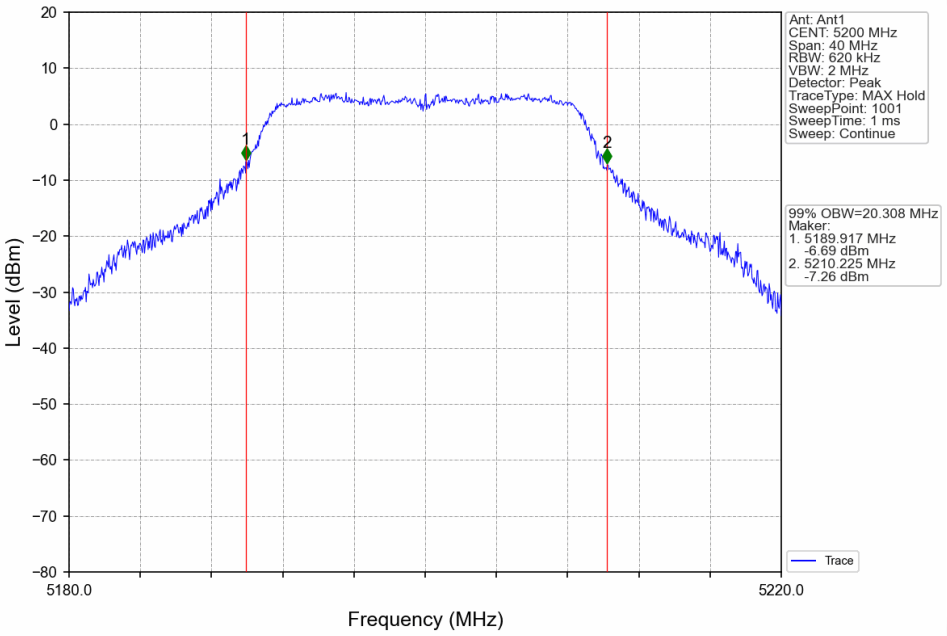
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



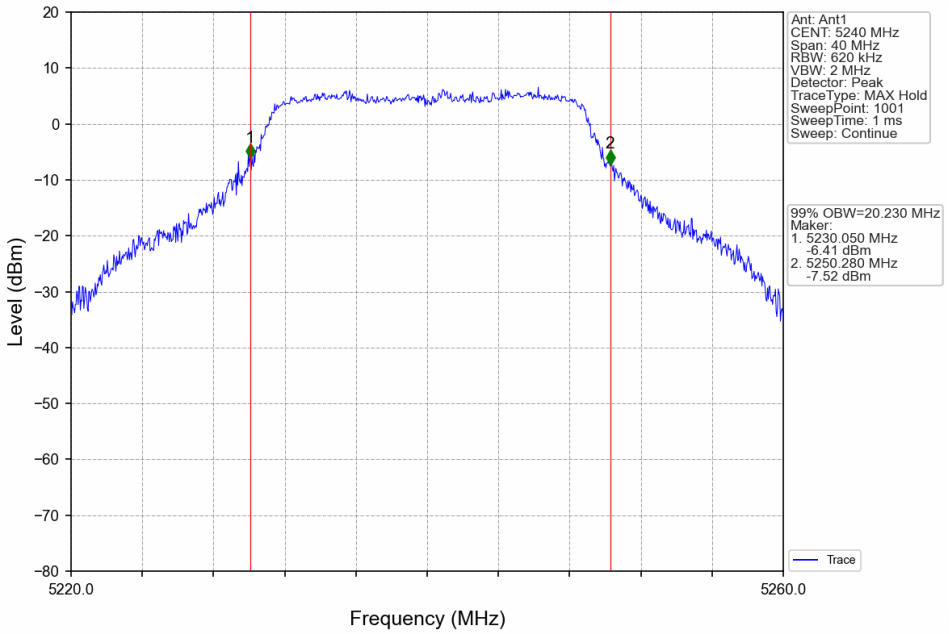
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



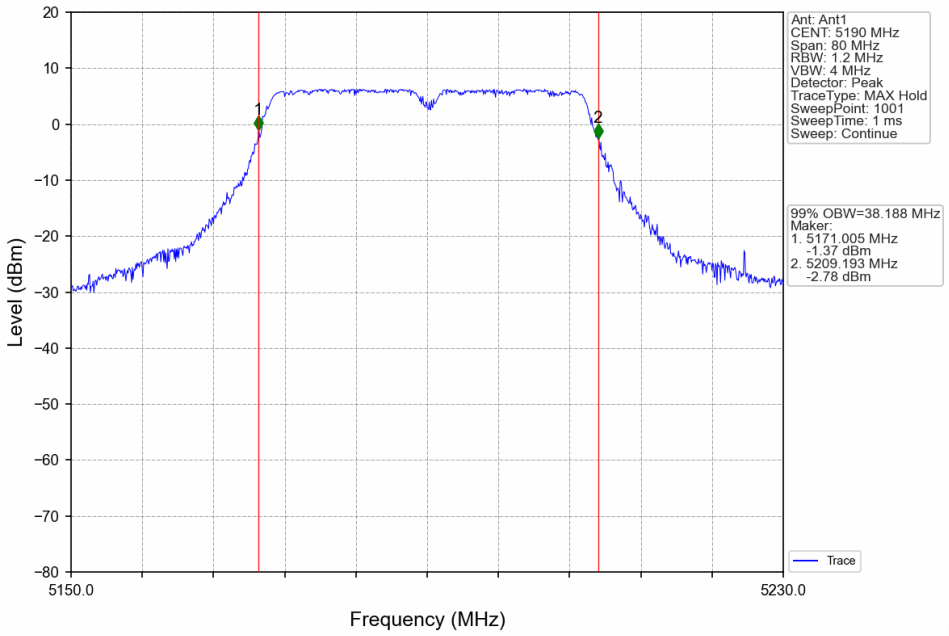
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



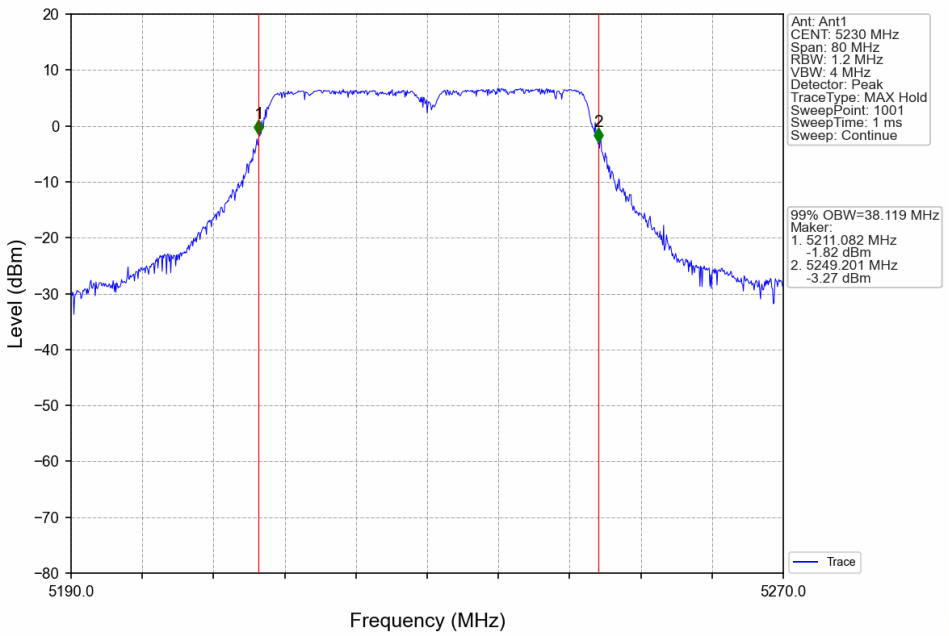
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



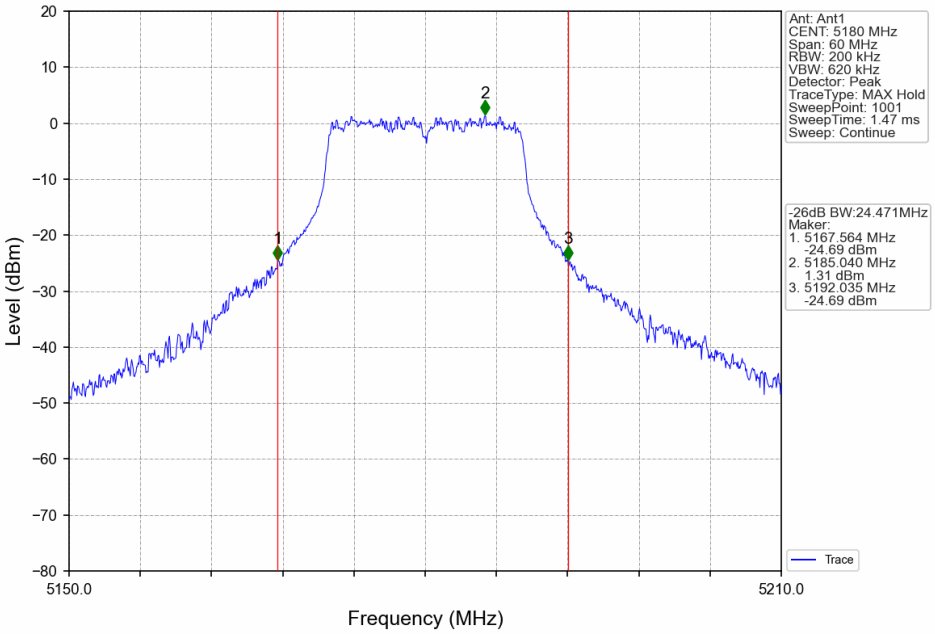
1.2 26dB BW

1.2.1 Test Result

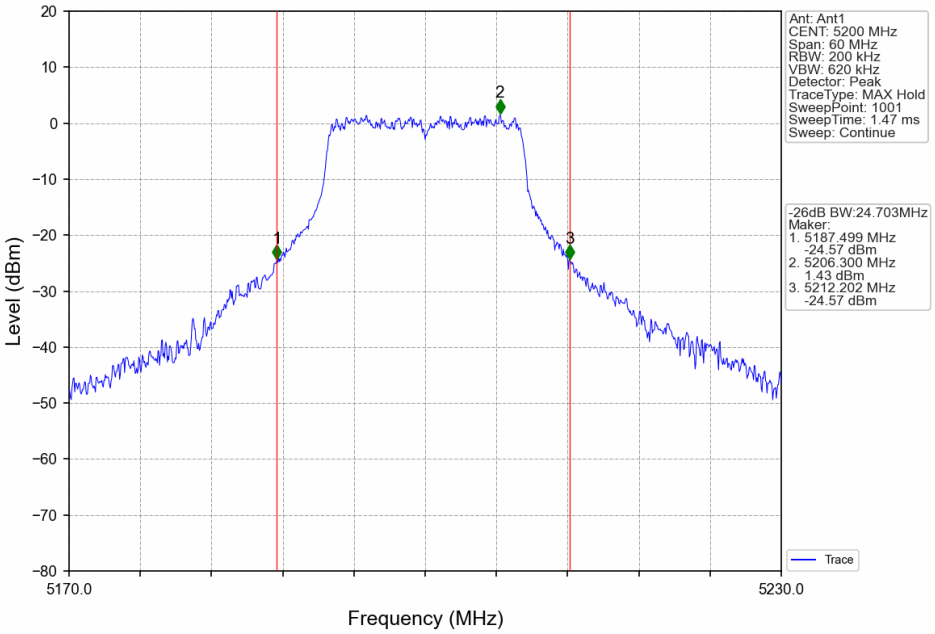
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	24.471	Pass
		5200	1	24.703	Pass
		5240	1	24.112	Pass
802.11n (HT20)	SISO	5180	1	25.034	Pass
		5200	1	24.928	Pass
		5240	1	25.003	Pass
802.11n (HT40)	SISO	5190	1	48.121	Pass
		5230	1	48.551	Pass
802.11ac (VHT20)	SISO	5180	1	25.397	Pass
		5200	1	25.273	Pass
		5240	1	26.230	Pass
802.11ac (VHT40)	SISO	5190	1	47.384	Pass
		5230	1	47.334	Pass

1.2.2 Test Graph

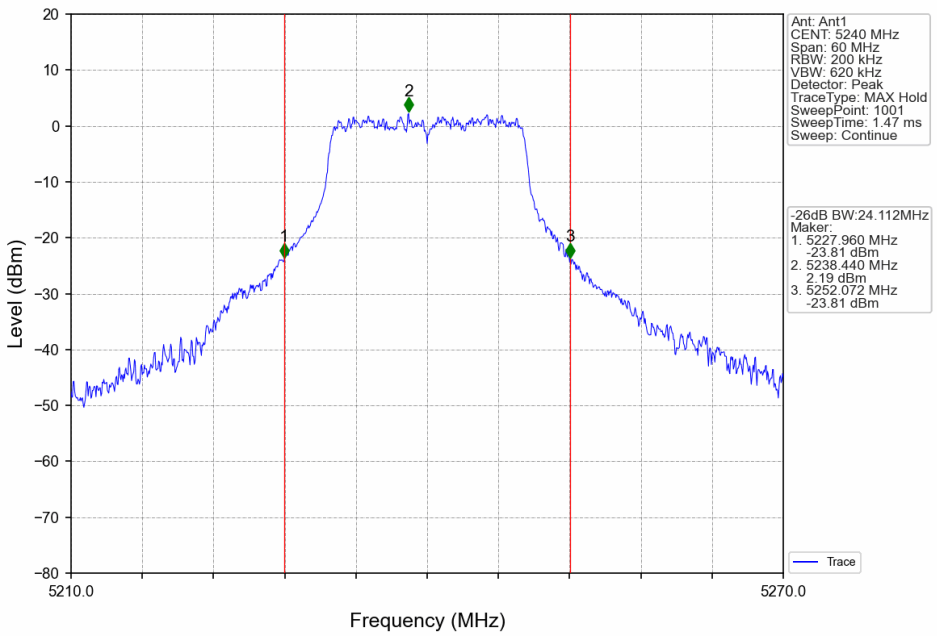
802.11a_LCH_5180MHz_Ant1_NTNV



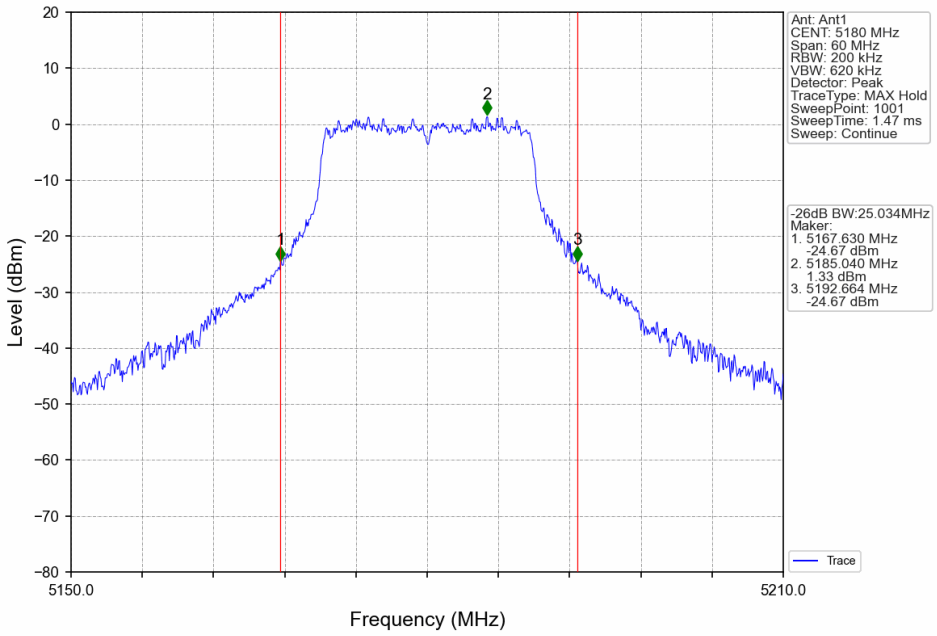
802.11a_MCH_5200MHz_Ant1_NTNV



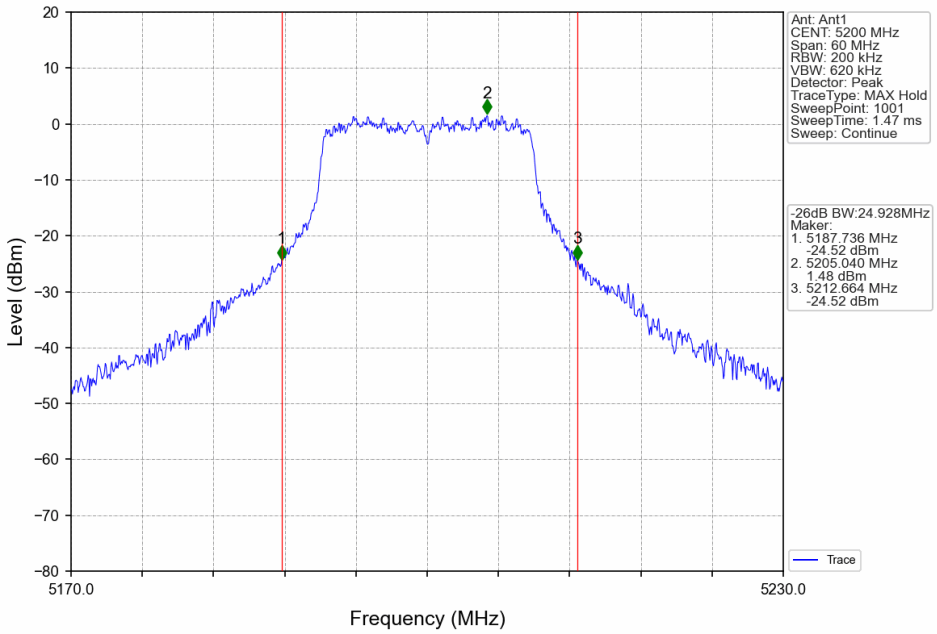
802.11a_HCH_5240MHz_Ant1_NTNV



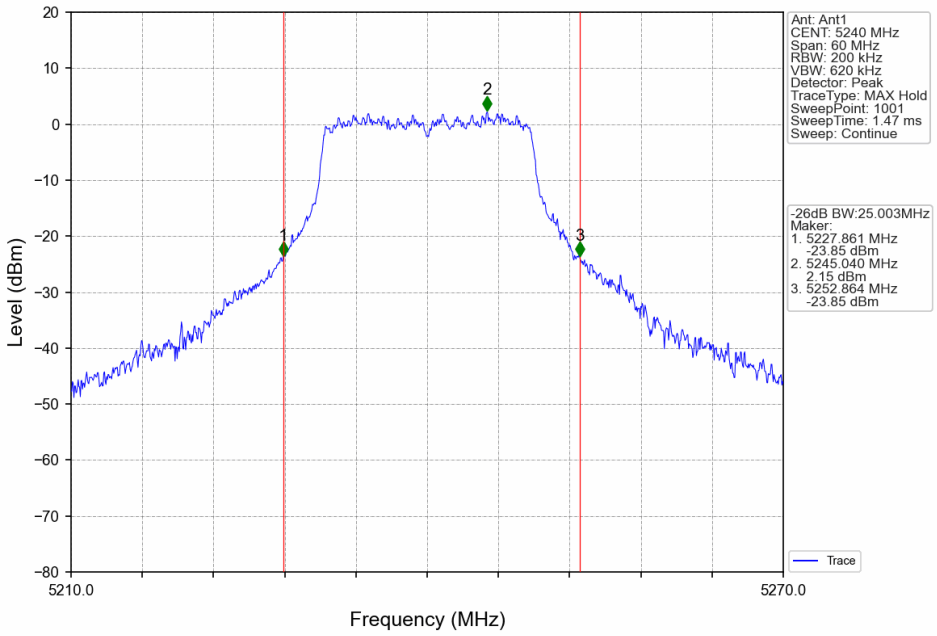
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



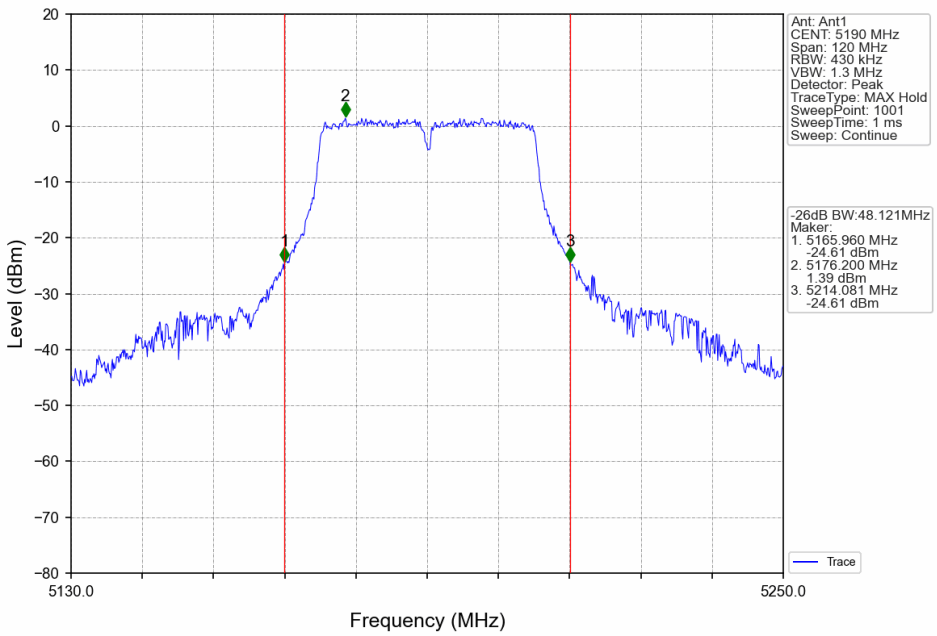
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



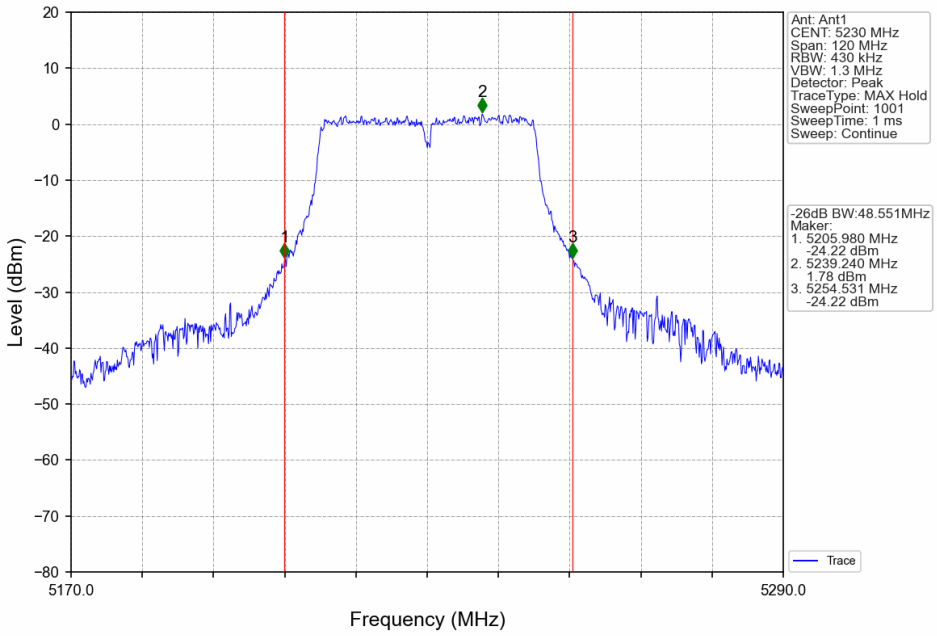
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



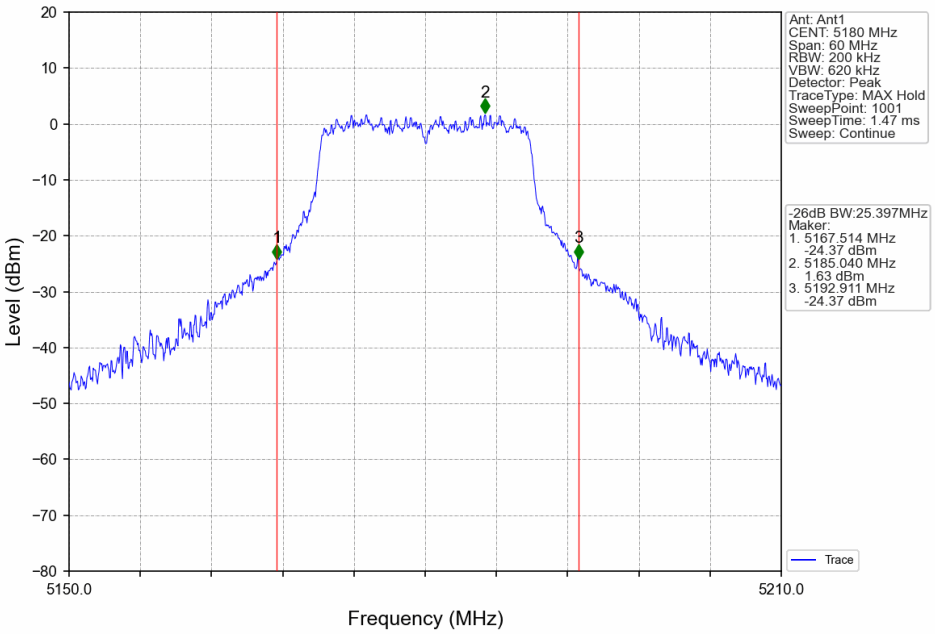
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



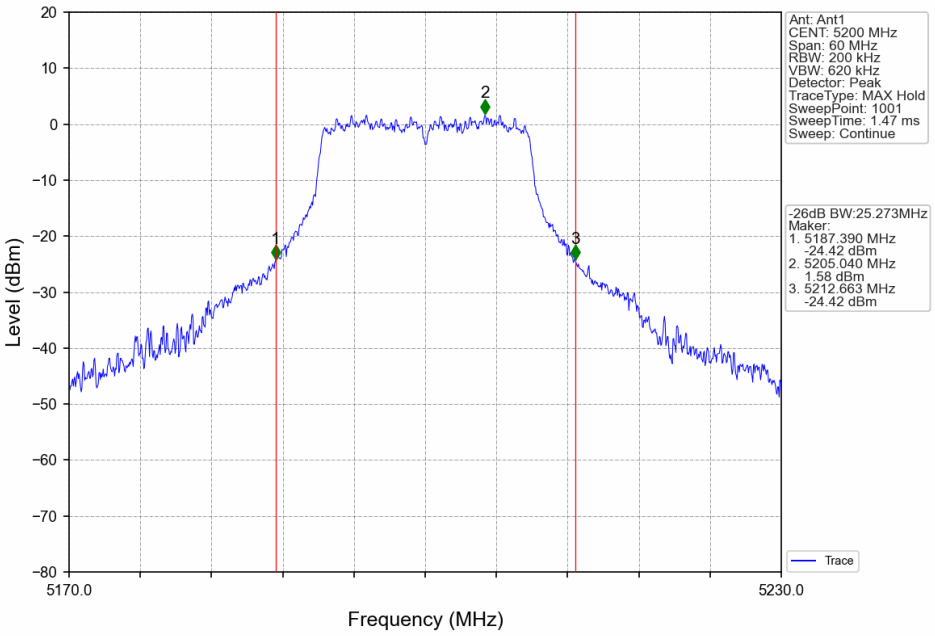
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



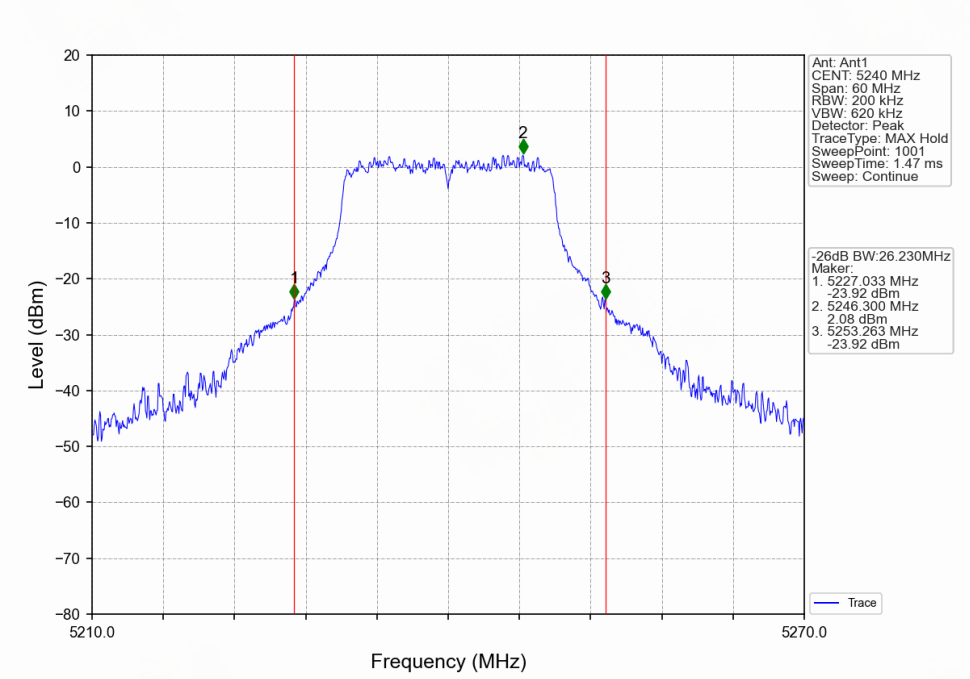
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



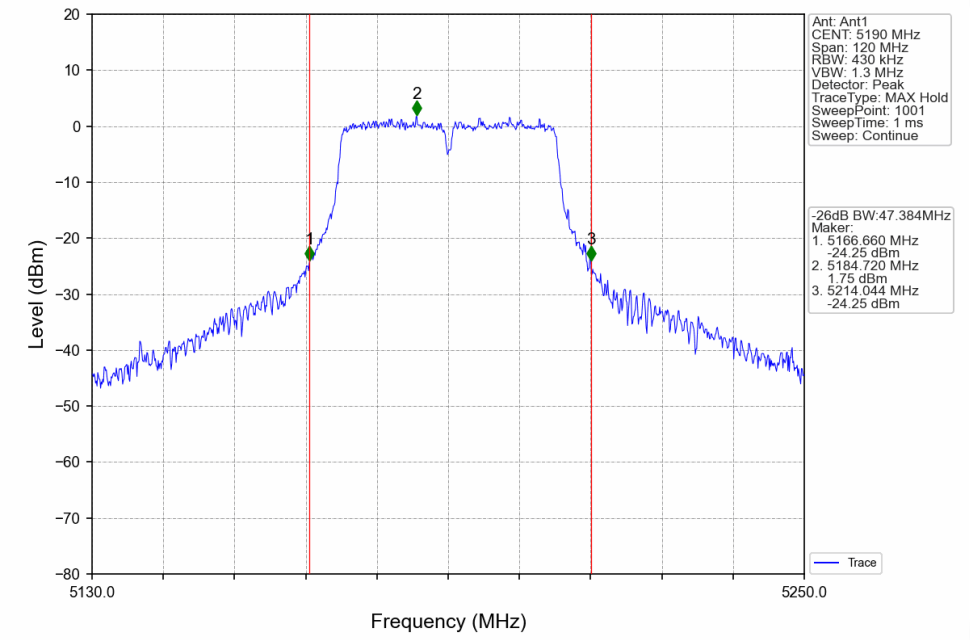
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



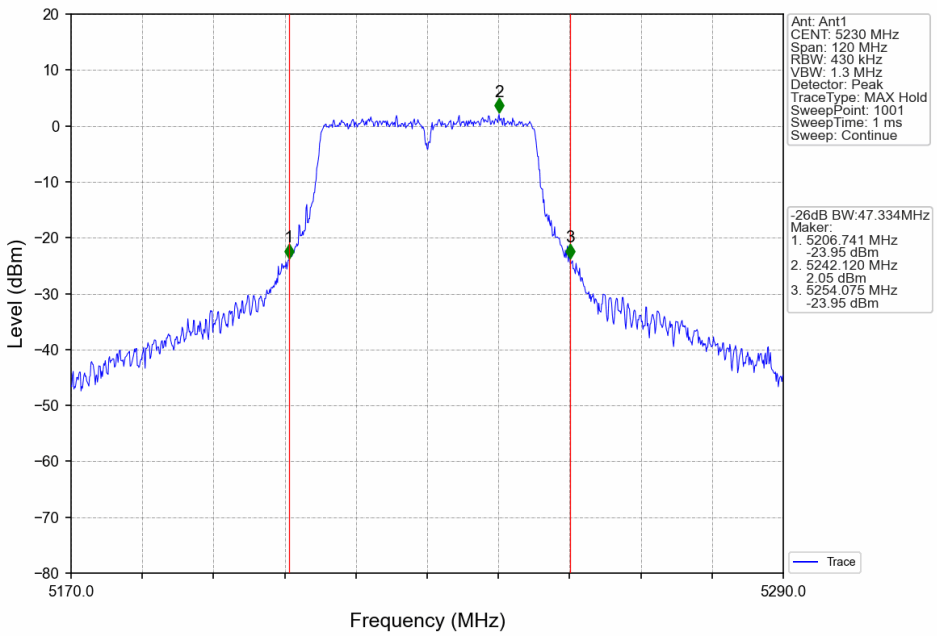
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	11.73	<=23.98	Pass
		5200	11.84	<=23.98	Pass
		5240	12.17	<=23.98	Pass
802.11n (HT20)	SISO	5180	11.68	<=23.98	Pass
		5200	11.88	<=23.98	Pass
		5240	12.28	<=23.98	Pass
802.11n (HT40)	SISO	5190	11.89	<=23.98	Pass
		5230	12.12	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	11.91	<=23.98	Pass
		5200	11.95	<=23.98	Pass
		5240	12.31	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	11.92	<=23.98	Pass
		5230	12.14	<=23.98	Pass
Note1: Antenna Gain: Ant1: 3.97dBi;					

3. Maximum Power Spectral Density

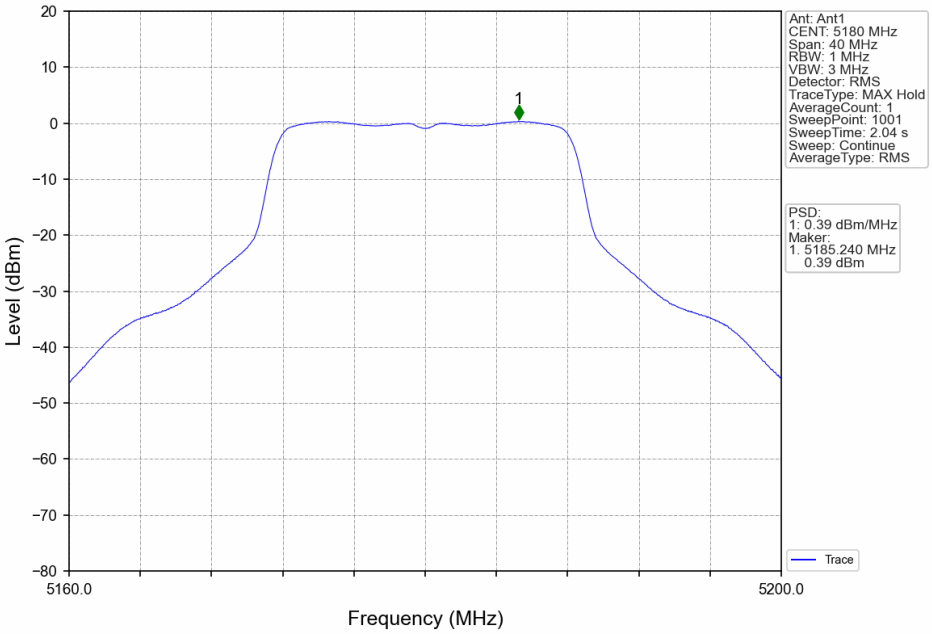
3.1 PSD

3.1.1 Test Result

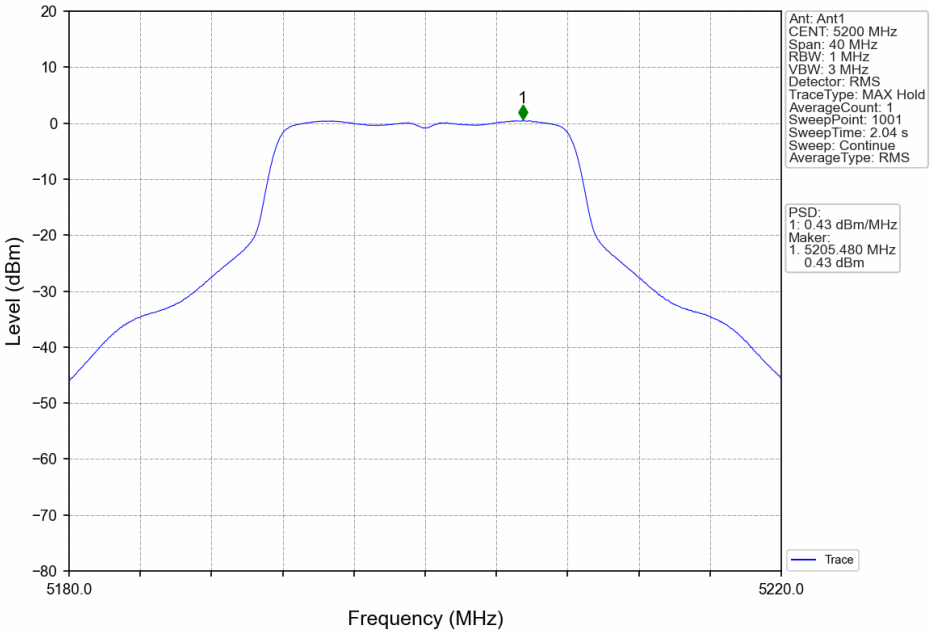
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	0.39	<=11	Pass
		5200	0.43	<=11	Pass
		5240	0.92	<=11	Pass
802.11n (HT20)	SISO	5180	0.11	<=11	Pass
		5200	0.32	<=11	Pass
		5240	0.77	<=11	Pass
802.11n (HT40)	SISO	5190	-3.11	<=11	Pass
		5230	-2.80	<=11	Pass
802.11ac (VHT20)	SISO	5180	0.26	<=11	Pass
		5200	0.31	<=11	Pass
		5240	0.78	<=11	Pass
802.11ac (VHT40)	SISO	5190	-3.10	<=11	Pass
		5230	-2.80	<=11	Pass
Note1: Antenna Gain: Ant1: 3.97dBi;					

3.1.2 Test Graph

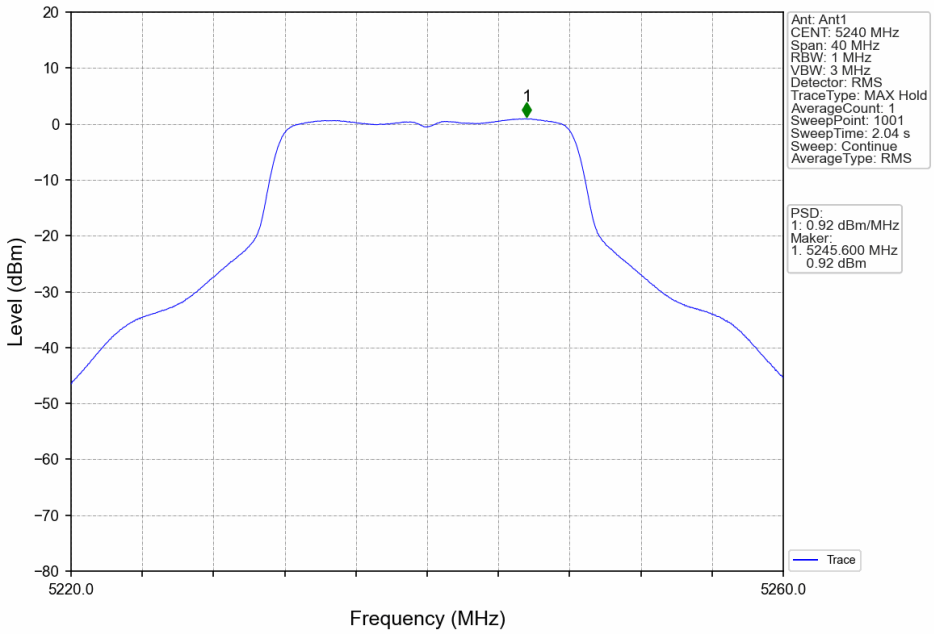
802.11a_LCH_5180MHz_Ant1_NTNV



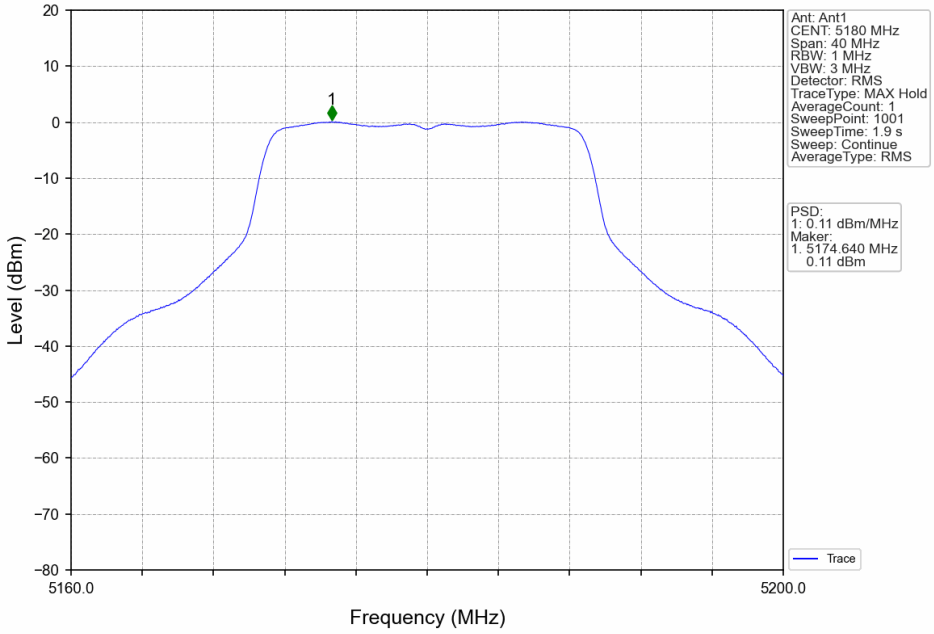
802.11a_MCH_5200MHz_Ant1_NTNV



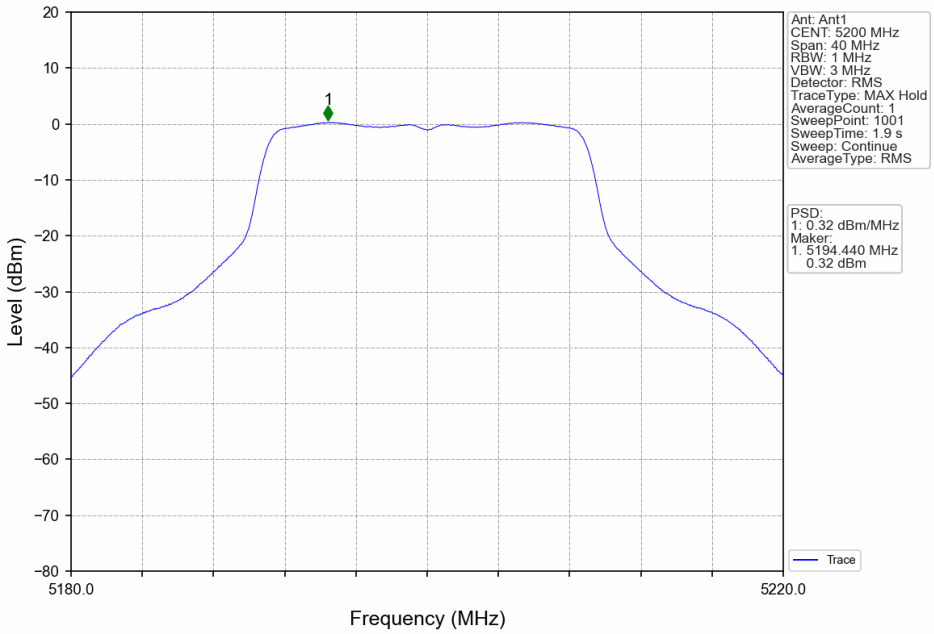
802.11a_HCH_5240MHz_Ant1_NTNV



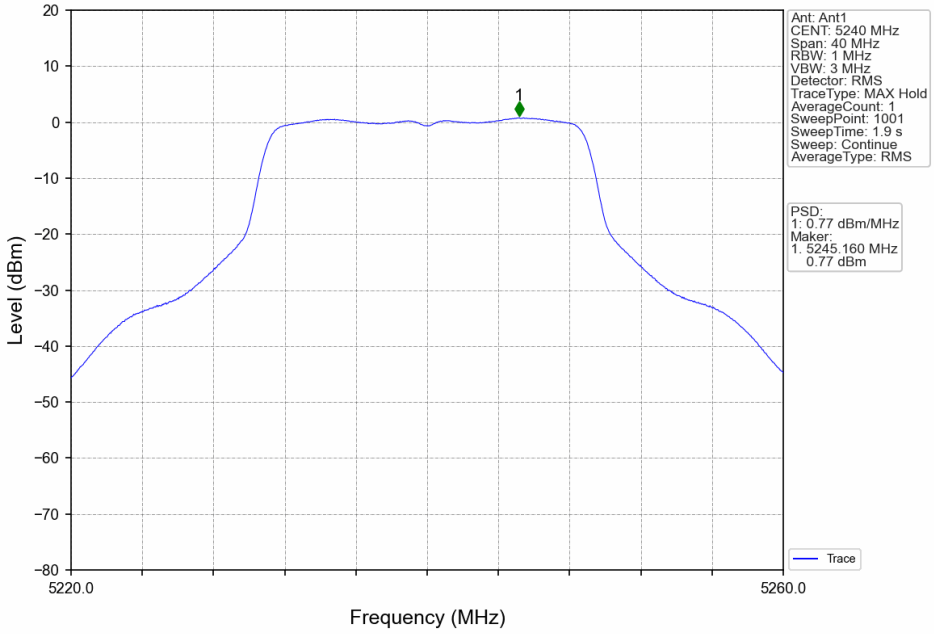
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



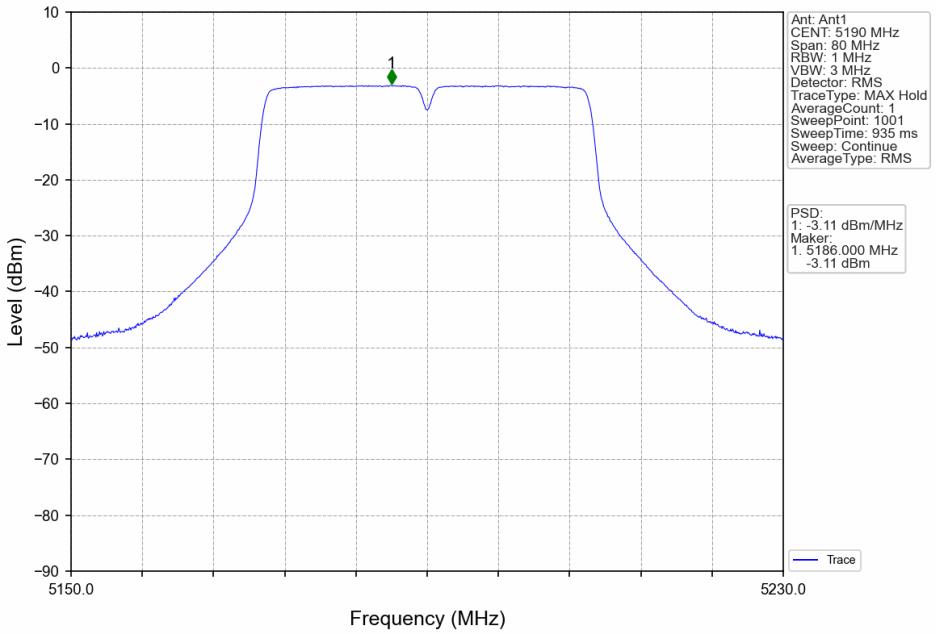
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



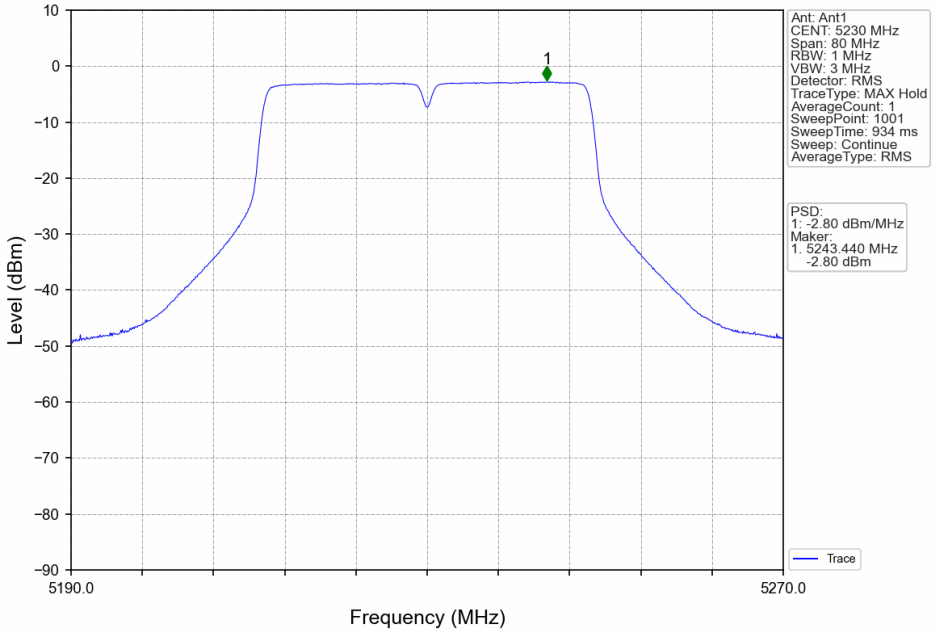
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



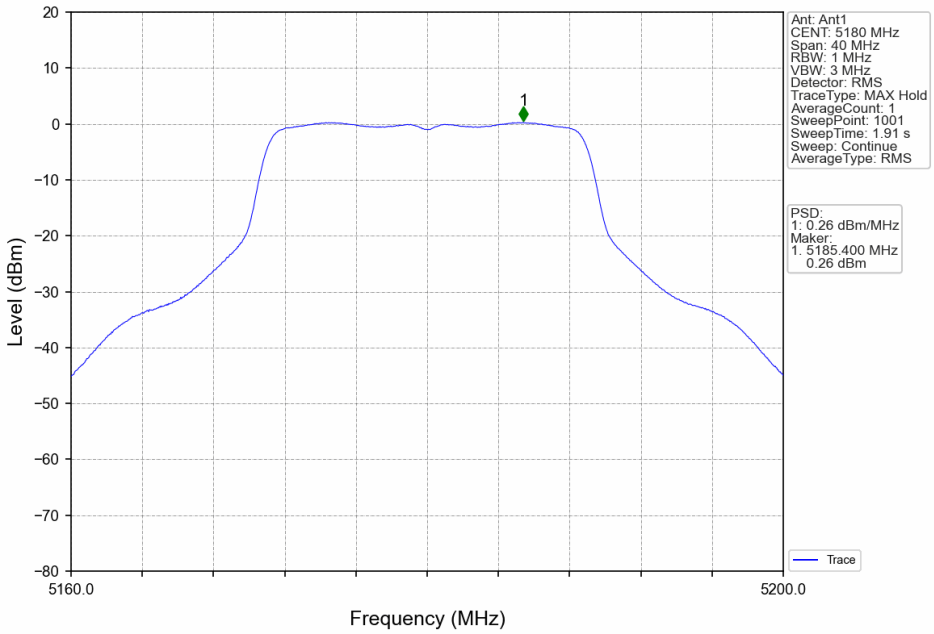
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



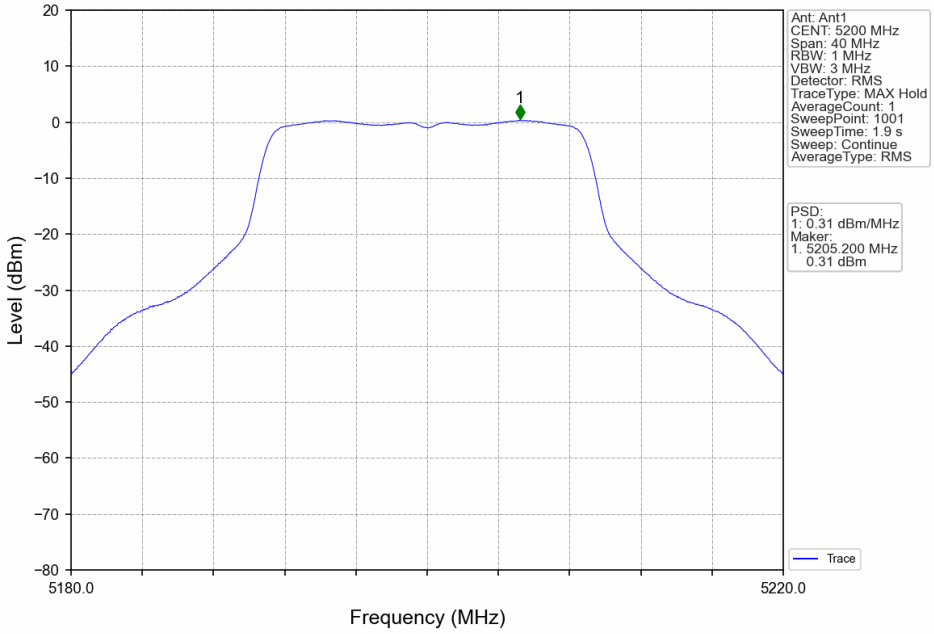
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



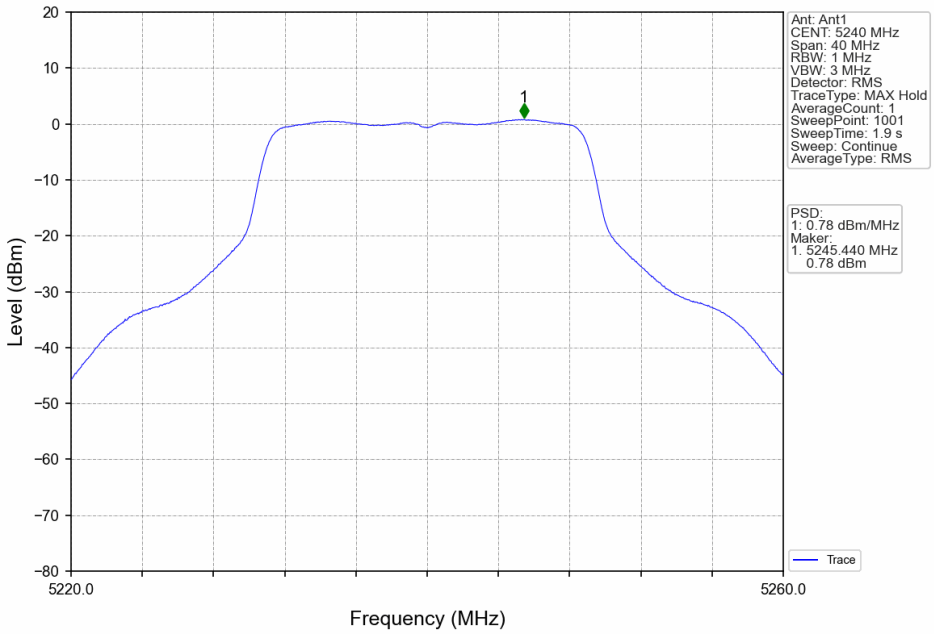
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



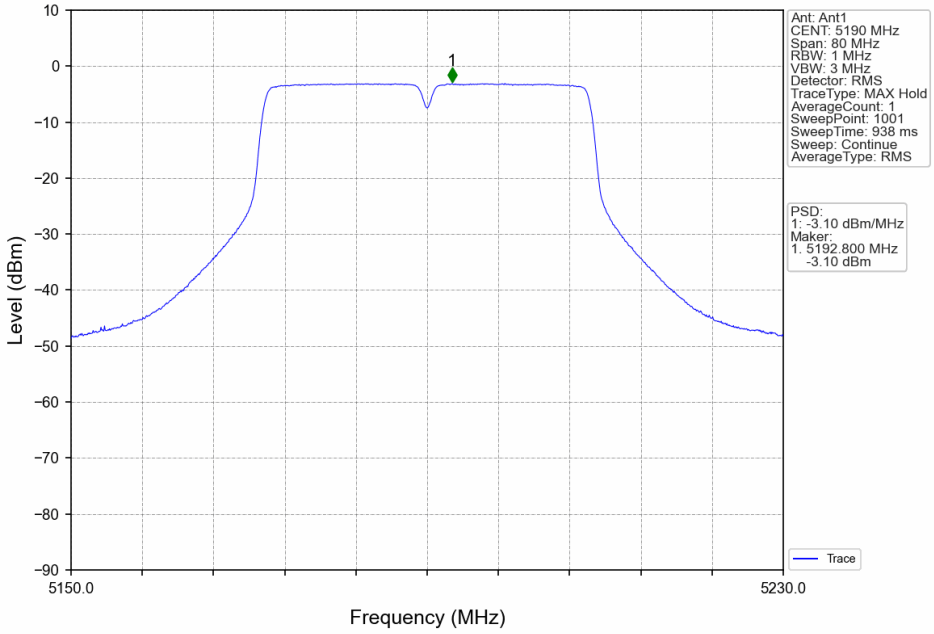
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



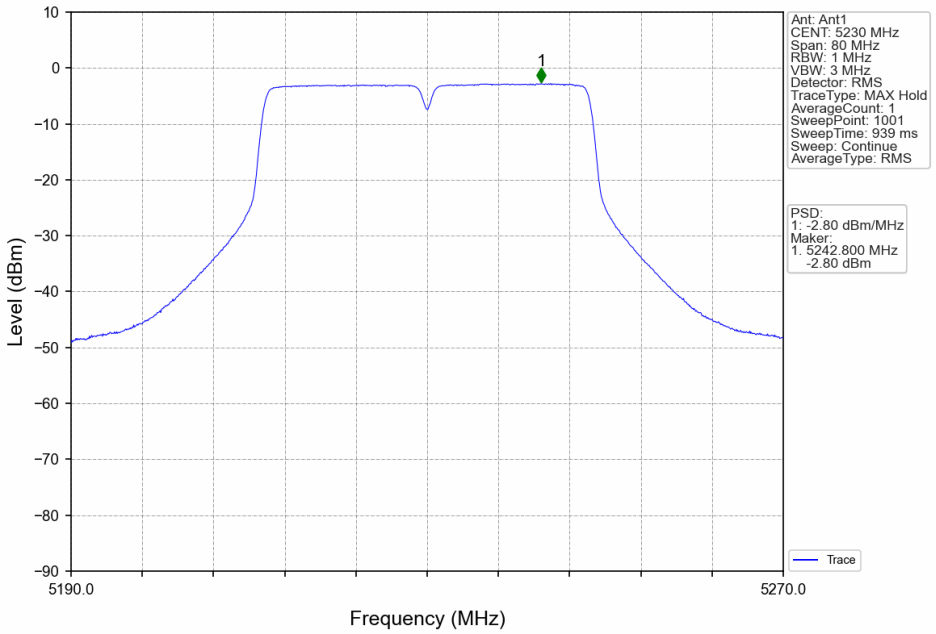
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



4. Frequency Stability

4.1 Ant1

4.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5180	20	102	5180.004	5150 to 5250	Pass
				120	5180.004	5150 to 5250	Pass
				138	5180.005	5150 to 5250	Pass
			-30	120	5180.004	5150 to 5250	Pass
			-20	120	5180.005	5150 to 5250	Pass
			-10	120	5180.005	5150 to 5250	Pass
			0	120	5180.005	5150 to 5250	Pass
			10	120	5180.005	5150 to 5250	Pass
			30	120	5180.005	5150 to 5250	Pass
			40	120	5180.005	5150 to 5250	Pass
			50	120	5180.005	5150 to 5250	Pass
		5200	20	102	5200.005	5150 to 5250	Pass
				120	5200.005	5150 to 5250	Pass
				138	5200.005	5150 to 5250	Pass
			-30	120	5200.005	5150 to 5250	Pass
			-20	120	5200.005	5150 to 5250	Pass
			-10	120	5200.005	5150 to 5250	Pass
			0	120	5200.005	5150 to 5250	Pass
			10	120	5200.005	5150 to 5250	Pass
			30	120	5200.005	5150 to 5250	Pass
			40	120	5200.005	5150 to 5250	Pass
			50	120	5200.005	5150 to 5250	Pass
		5240	20	102	5240.005	5150 to 5250	Pass
				120	5240.005	5150 to 5250	Pass
				138	5240.005	5150 to 5250	Pass
			-30	120	5240.005	5150 to 5250	Pass
			-20	120	5240.005	5150 to 5250	Pass
			-10	120	5240.005	5150 to 5250	Pass
			0	120	5240.005	5150 to 5250	Pass
			10	120	5240.005	5150 to 5250	Pass
			30	120	5240.005	5150 to 5250	Pass
			40	120	5240.005	5150 to 5250	Pass
			50	120	5240.005	5150 to 5250	Pass
		5190	20	102	5190.005	5150 to 5250	Pass
				120	5190.005	5150 to 5250	Pass
				138	5190.005	5150 to 5250	Pass
			-30	120	5190.005	5150 to 5250	Pass
			-20	120	5190.005	5150 to 5250	Pass
			-10	120	5190.005	5150 to 5250	Pass
			0	120	5190.005	5150 to 5250	Pass
			10	120	5190.004	5150 to 5250	Pass
			30	120	5190.005	5150 to 5250	Pass
			40	120	5190.004	5150 to 5250	Pass
			50	120	5190.004	5150 to 5250	Pass
		5230	20	102	5230.004	5150 to 5250	Pass
				120	5230.005	5150 to 5250	Pass
				138	5230.005	5150 to 5250	Pass
			-30	120	5230.005	5150 to 5250	Pass
			-20	120	5230.005	5150 to 5250	Pass

			-10	120	5230.005	5150 to 5250	Pass
			0	120	5230.005	5150 to 5250	Pass
			10	120	5230.005	5150 to 5250	Pass
			30	120	5230.005	5150 to 5250	Pass
			40	120	5230.005	5150 to 5250	Pass
			50	120	5230.005	5150 to 5250	Pass