

3. Maximum Conducted Output Power

3.1 Test Result

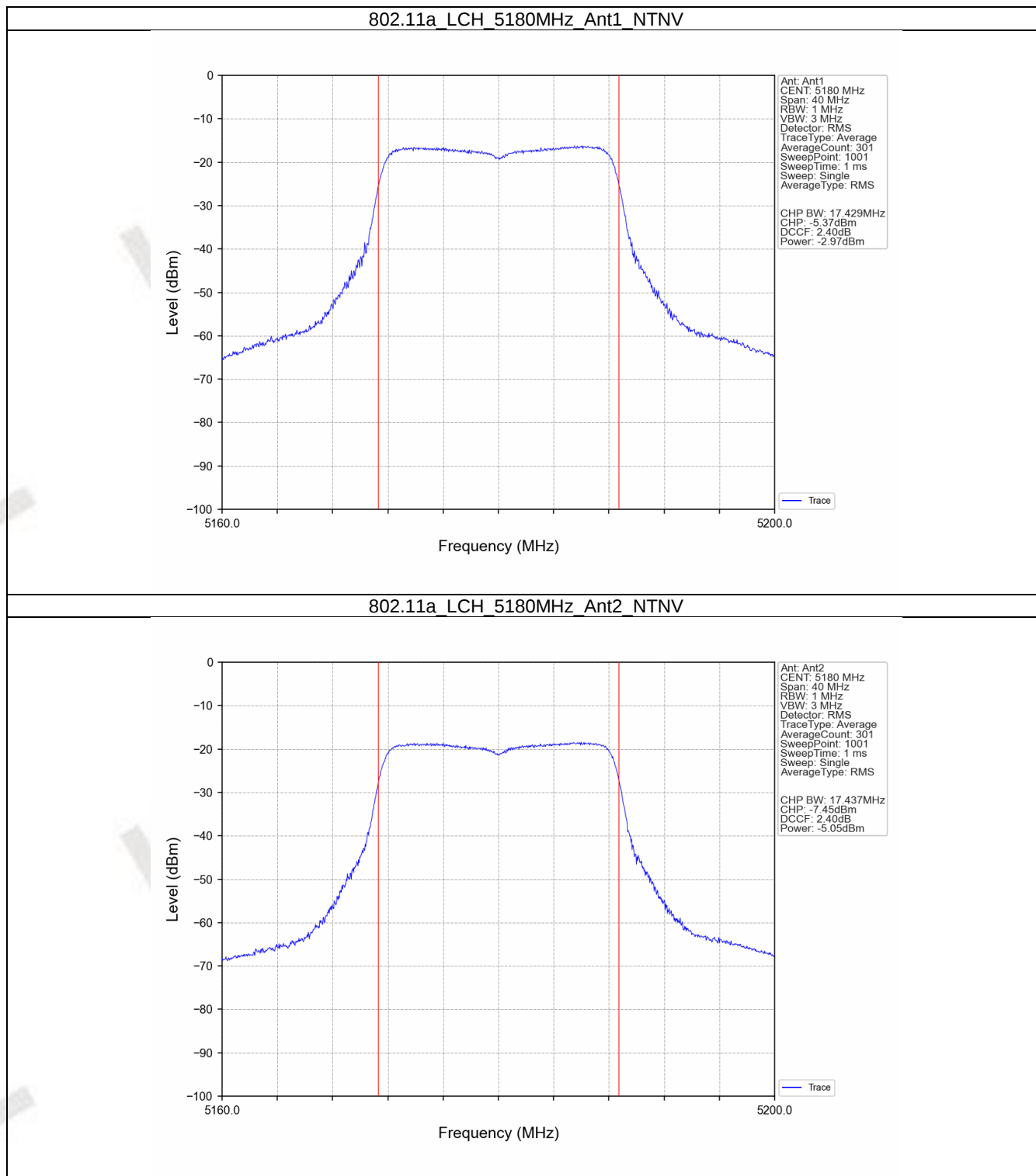
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)			Verdict
			ANT1	ANT2	Limit	
802.11a	SISO	5180	-2.97	-5.05	<=23.98	Pass
		5200	-2.22	-5.40	<=23.98	Pass
		5240	-3.11	-6.64	<=23.98	Pass
802.11n (HT20)	SISO	5180	-2.68	-5.03	<=23.98	Pass
		5200	-2.88	-5.67	<=23.98	Pass
		5240	-2.80	-6.53	<=23.98	Pass
802.11n (HT40)	SISO	5190	-2.77	-5.02	<=23.98	Pass
		5230	-2.32	-5.66	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	-2.78	-5.09	<=23.98	Pass
		5200	-2.91	-5.45	<=23.98	Pass
		5240	-2.97	-6.37	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	-2.38	-5.11	<=23.98	Pass
		5230	-2.09	-5.25	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	-3.51	-6.66	<=23.98	Pass

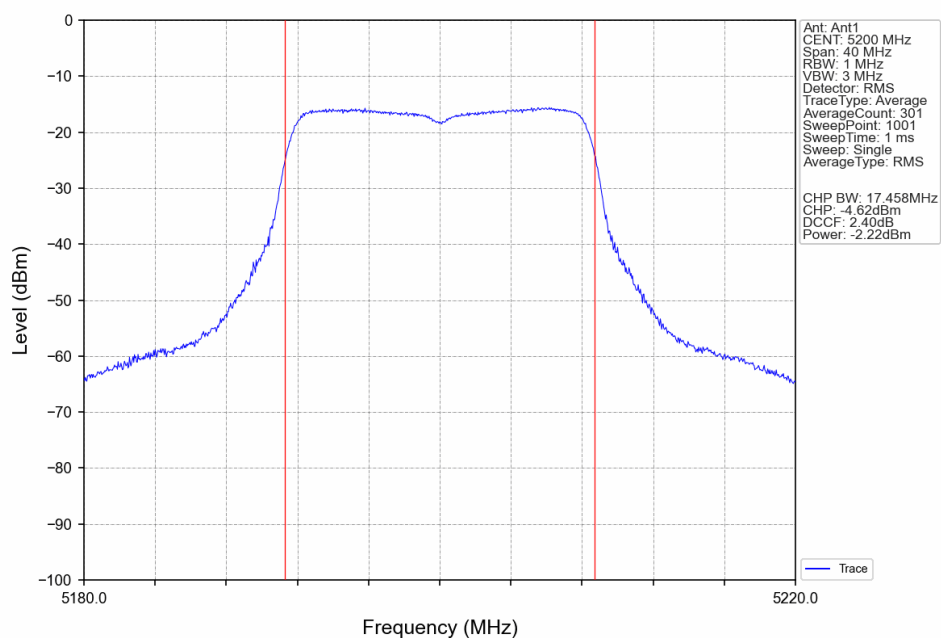
Note1: Antenna Gain: Ant1: 1.26dBi; Ant2: 1.20dBi;

3.2 Test Graph

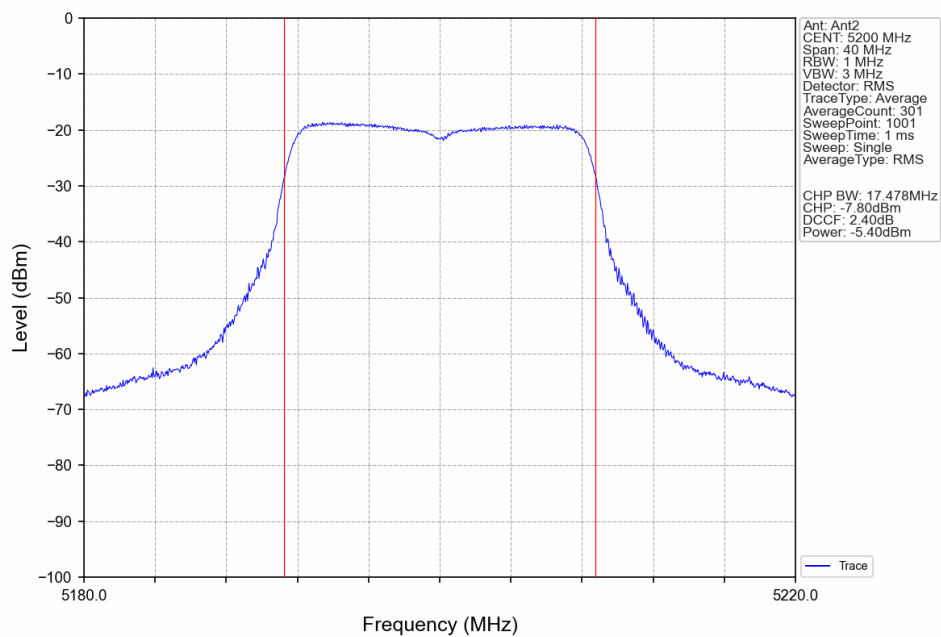
3.2.1 Power



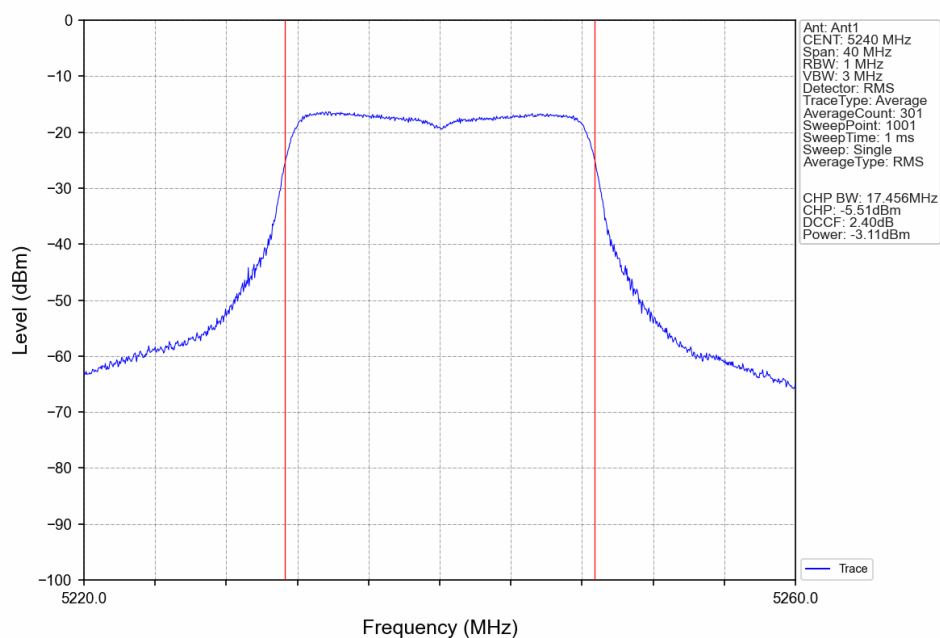
802.11a_MCH_5200MHz_Ant1_NTNV



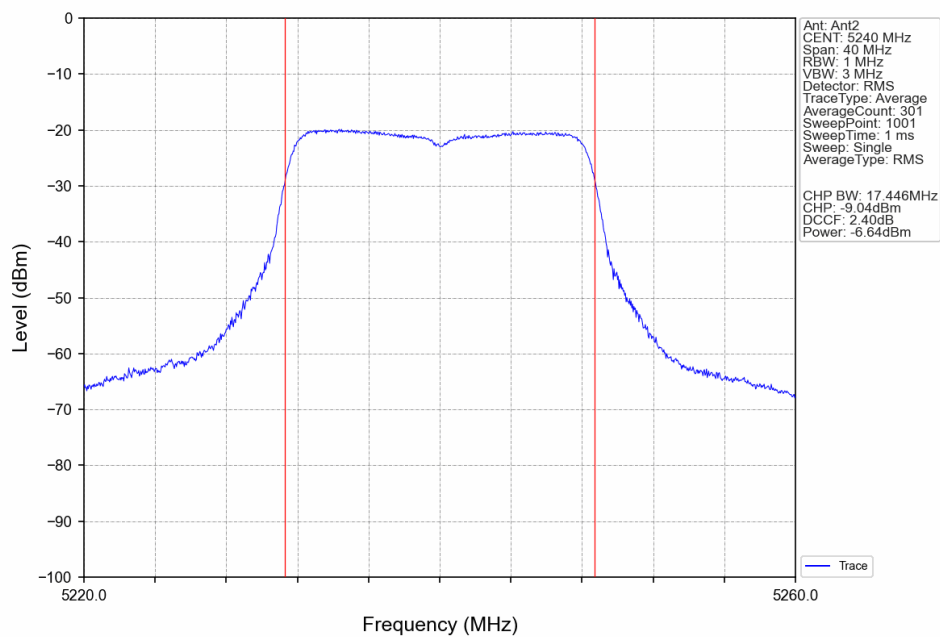
802.11a_MCH_5200MHz_Ant2_NTNV



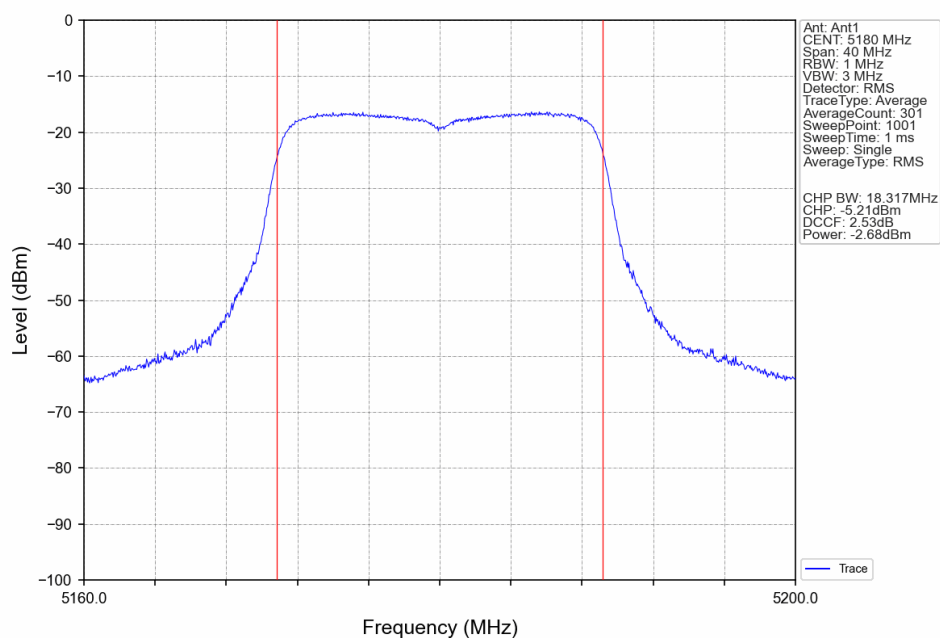
802.11a_HCH_5240MHz_Ant1_NTNV



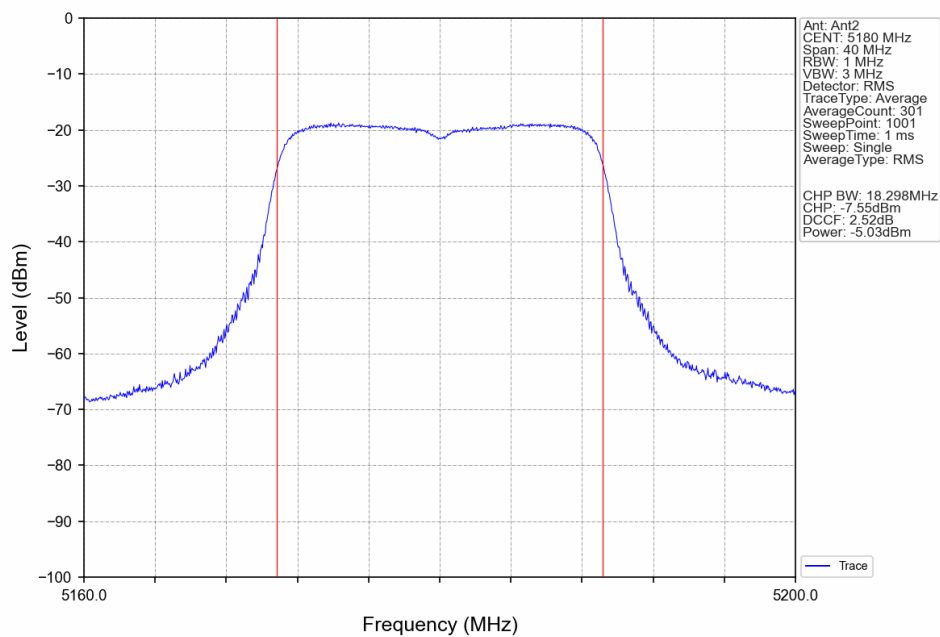
802.11a_HCH_5240MHz_Ant2_NTNV



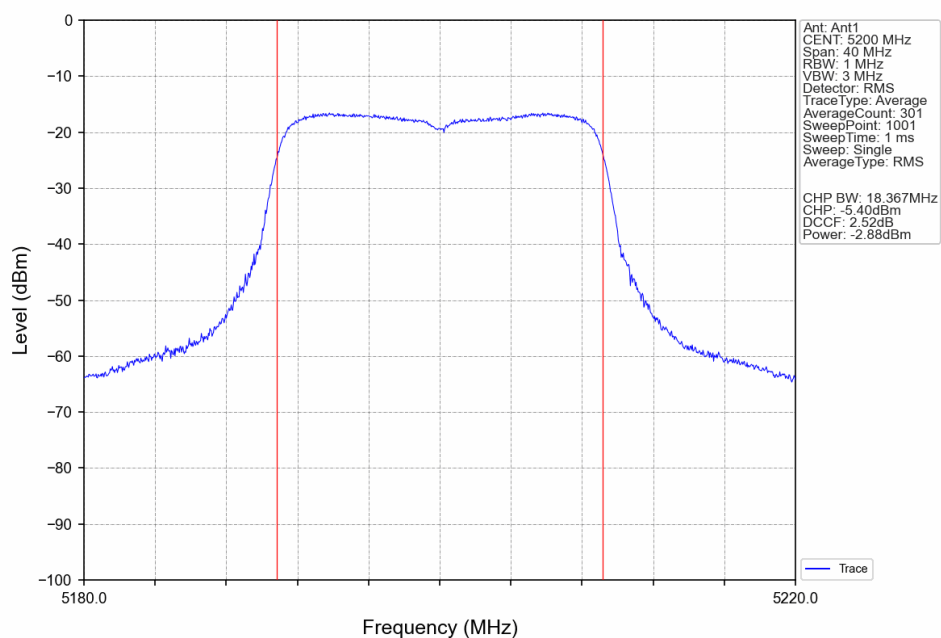
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



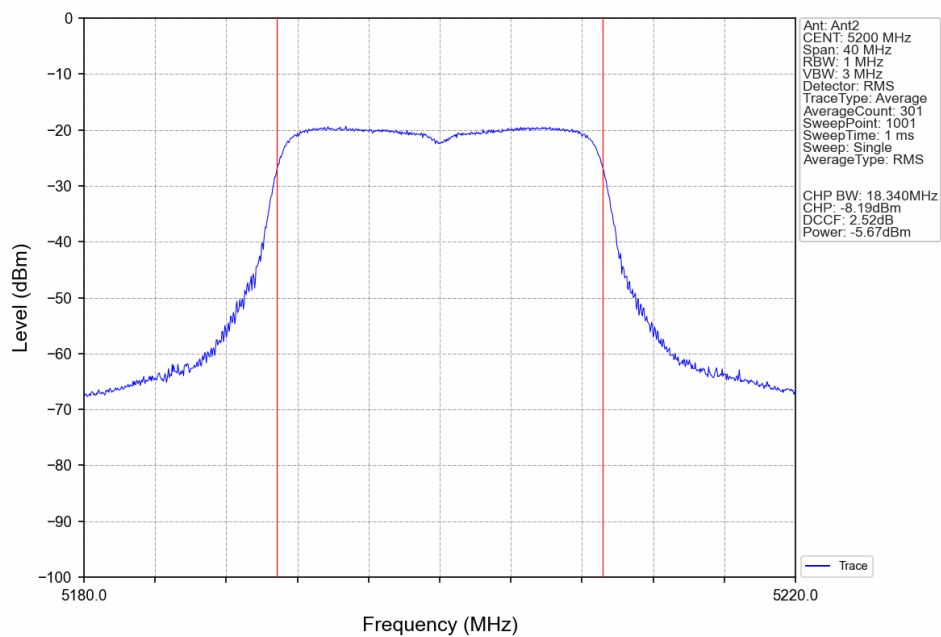
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



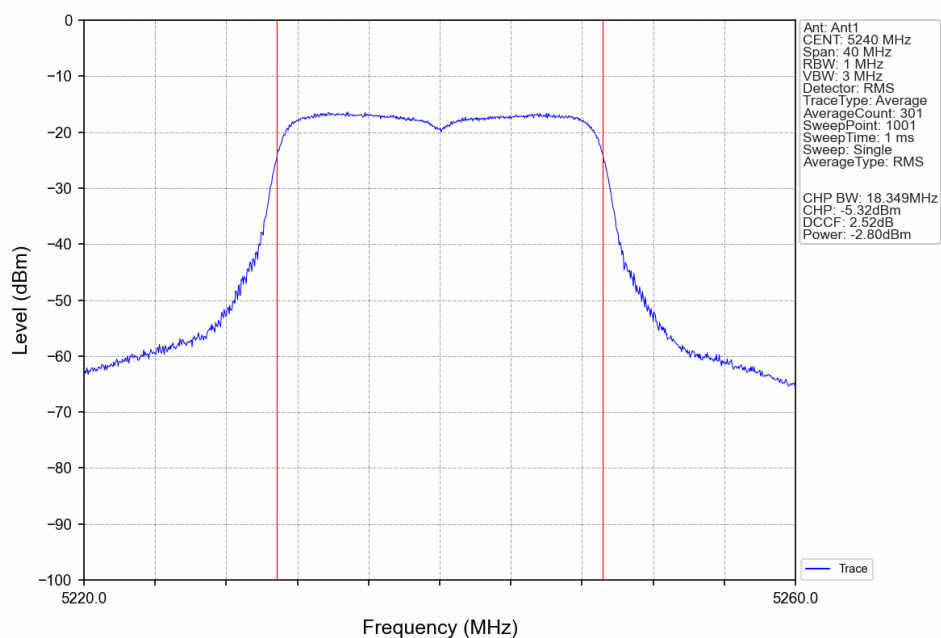
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



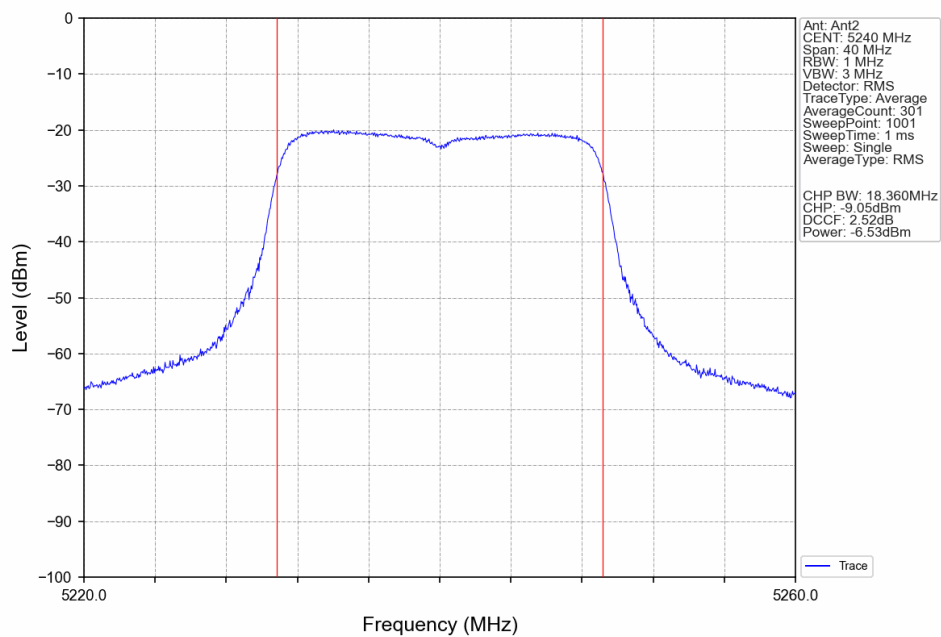
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



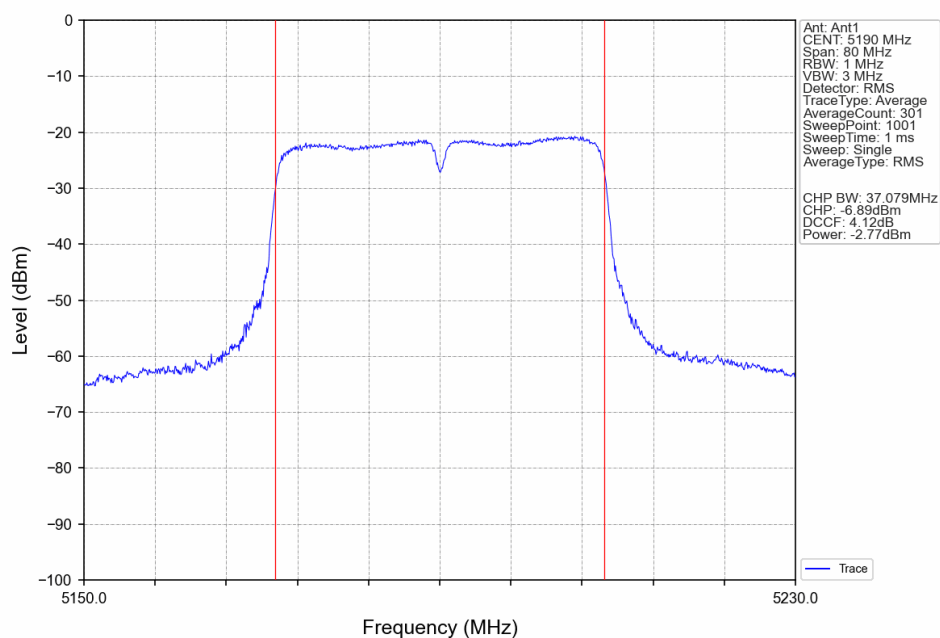
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



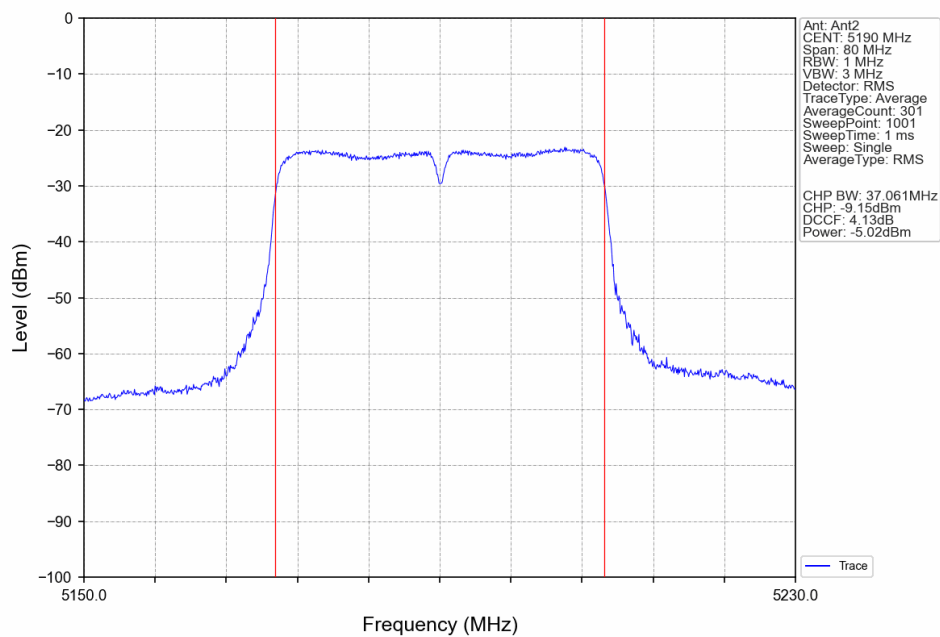
802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



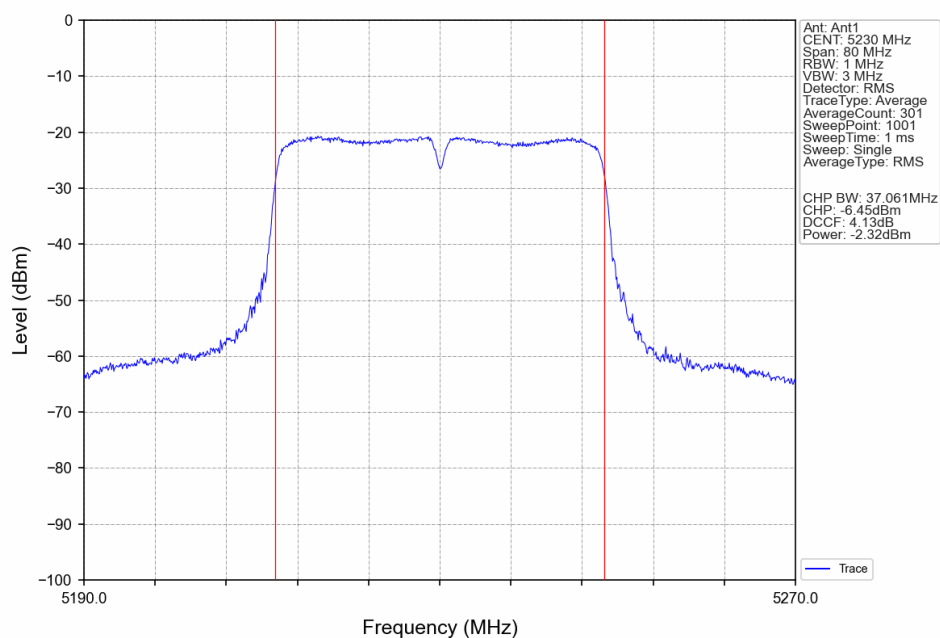
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



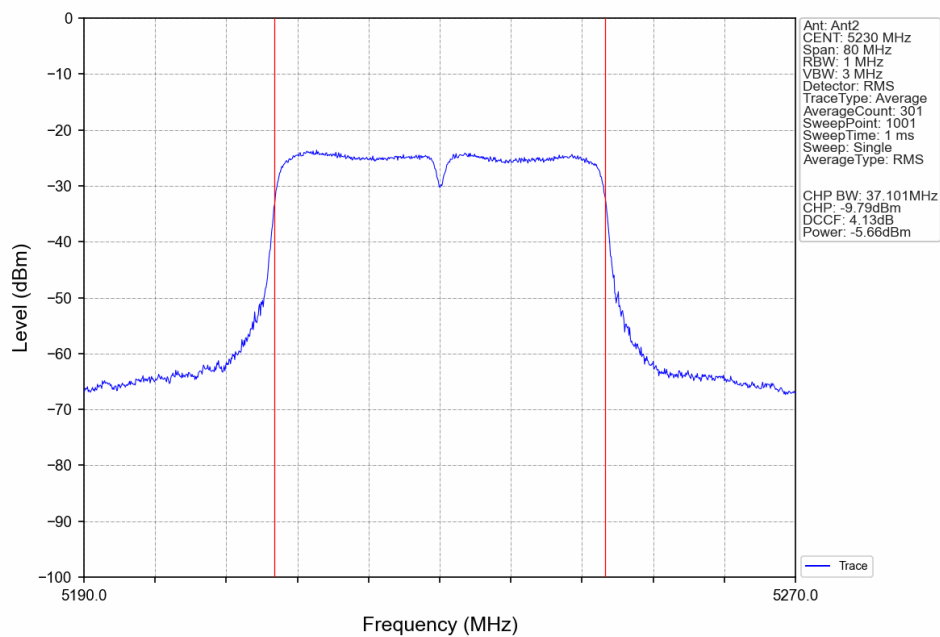
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



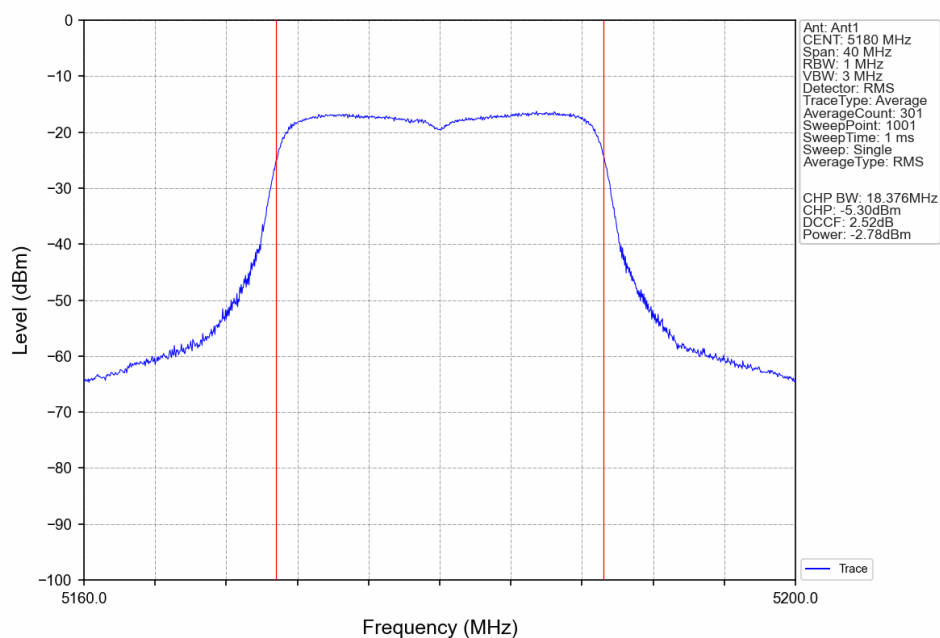
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



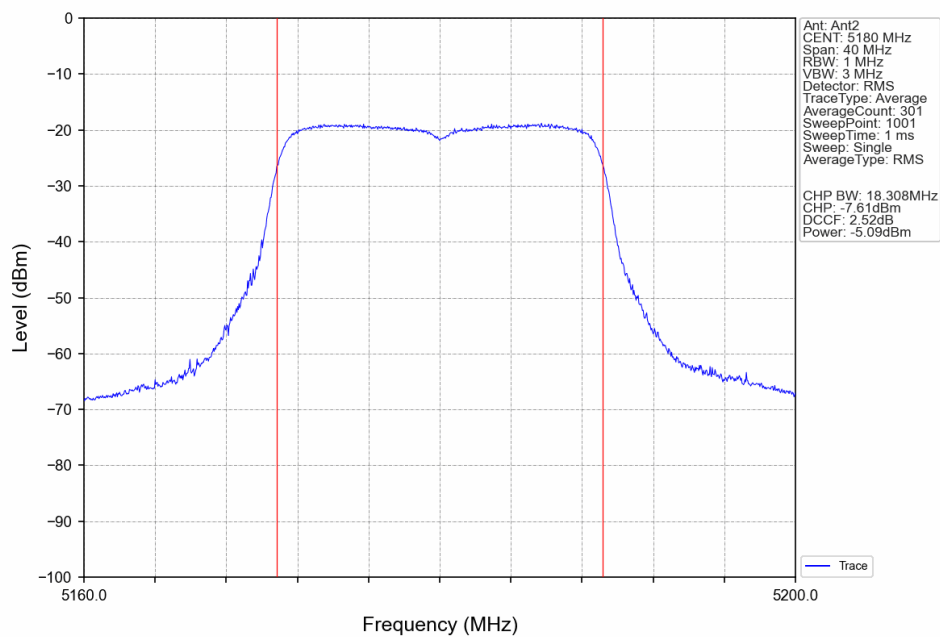
802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



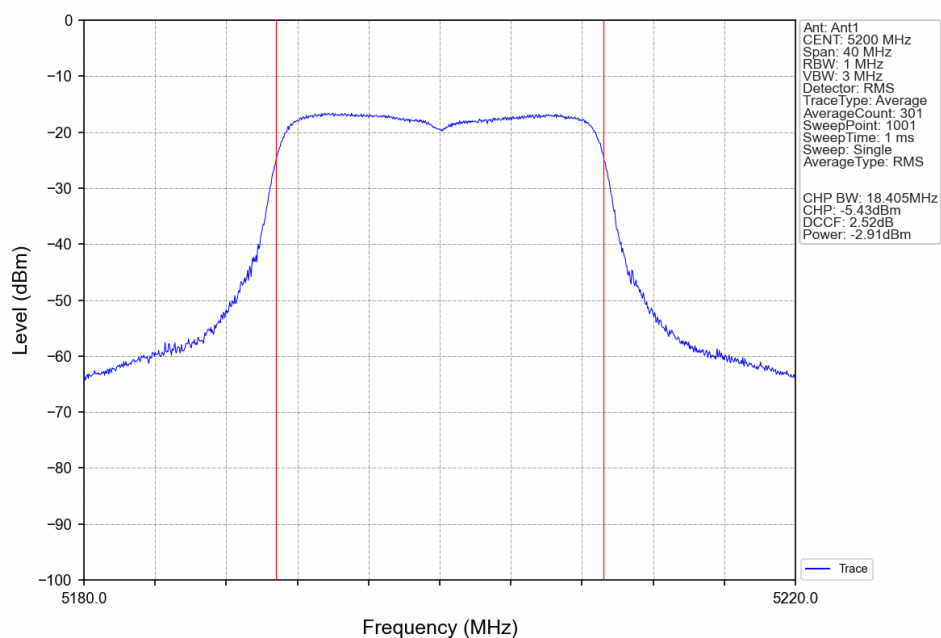
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



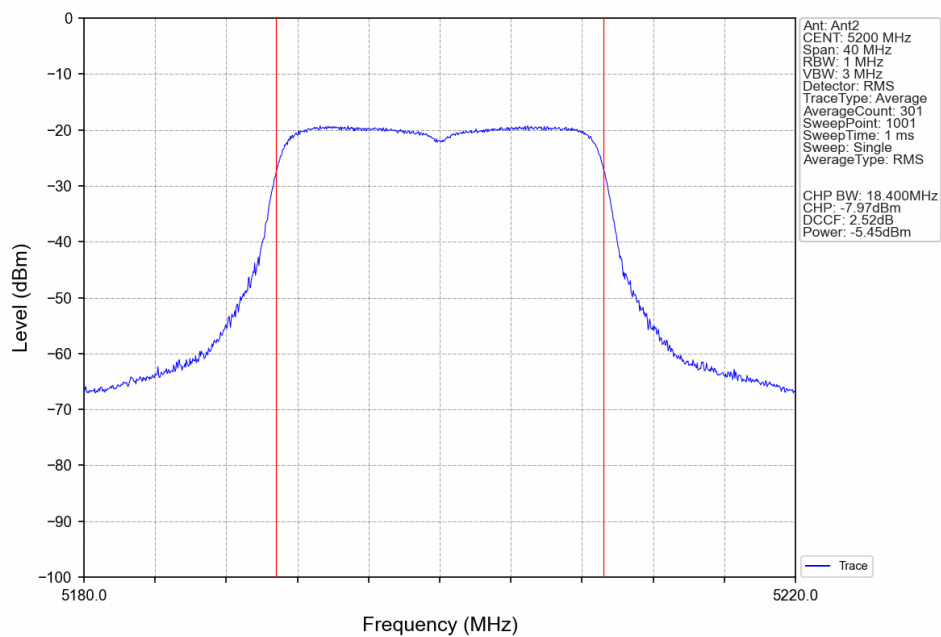
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



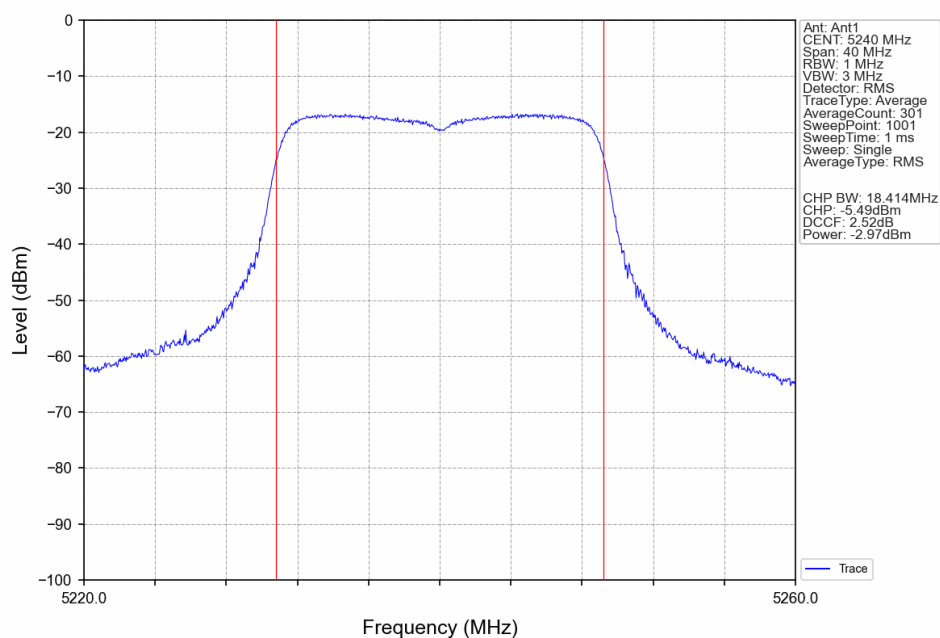
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



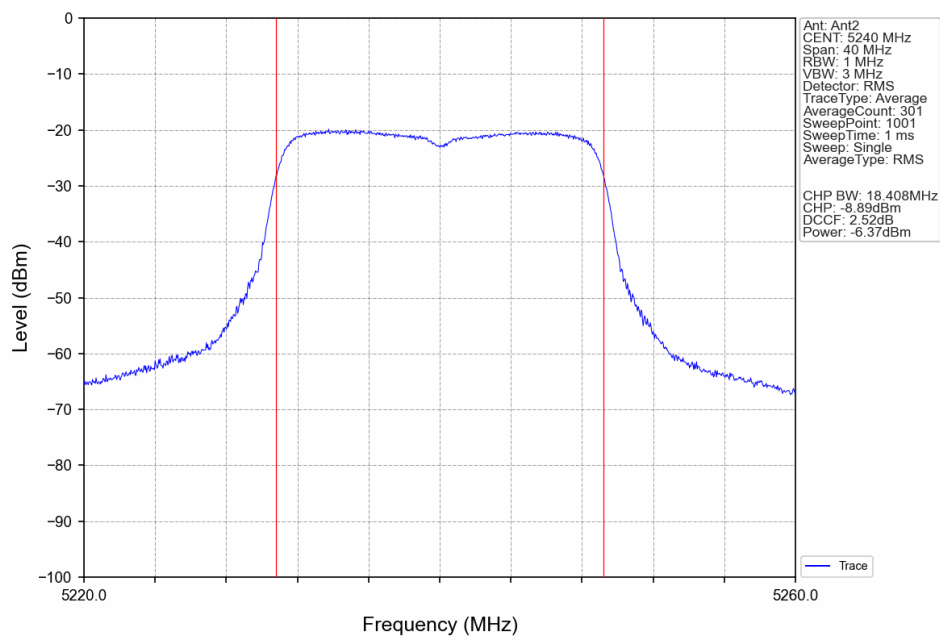
802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



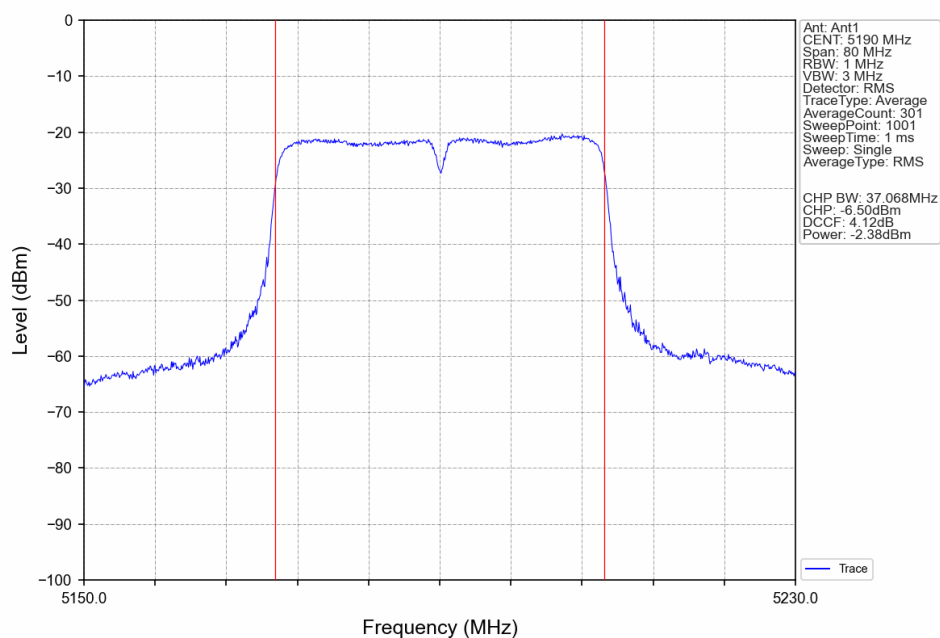
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



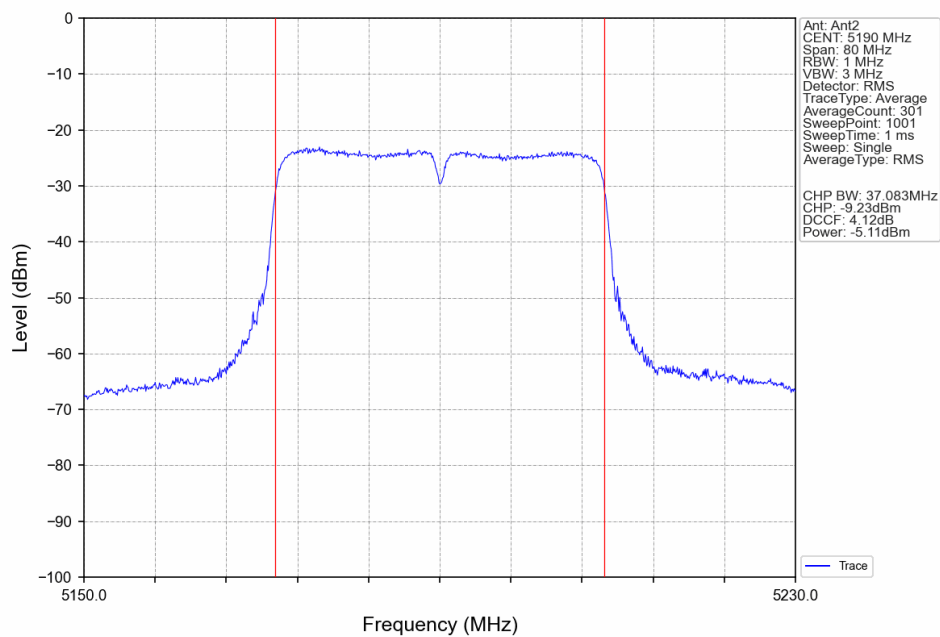
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



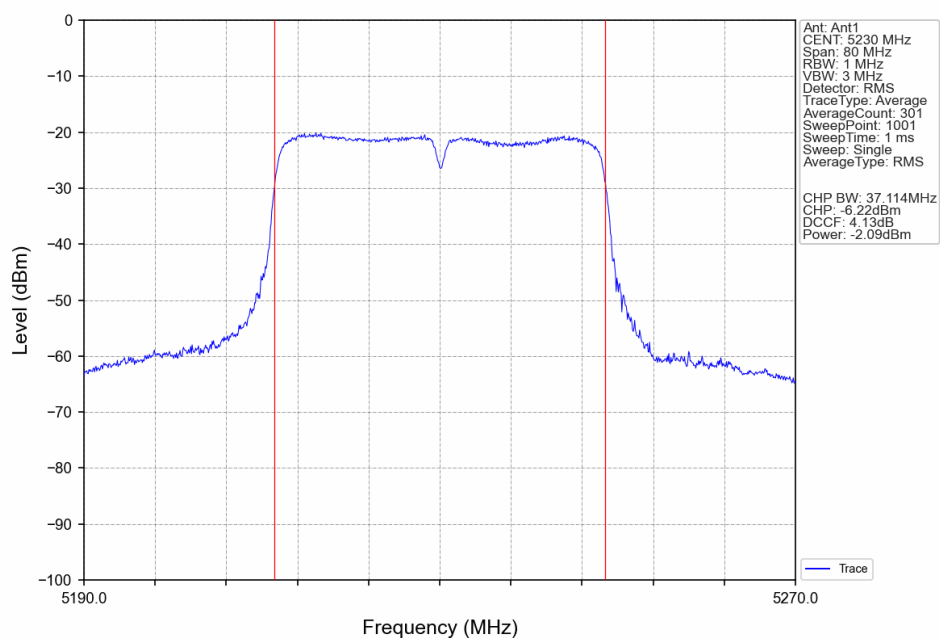
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



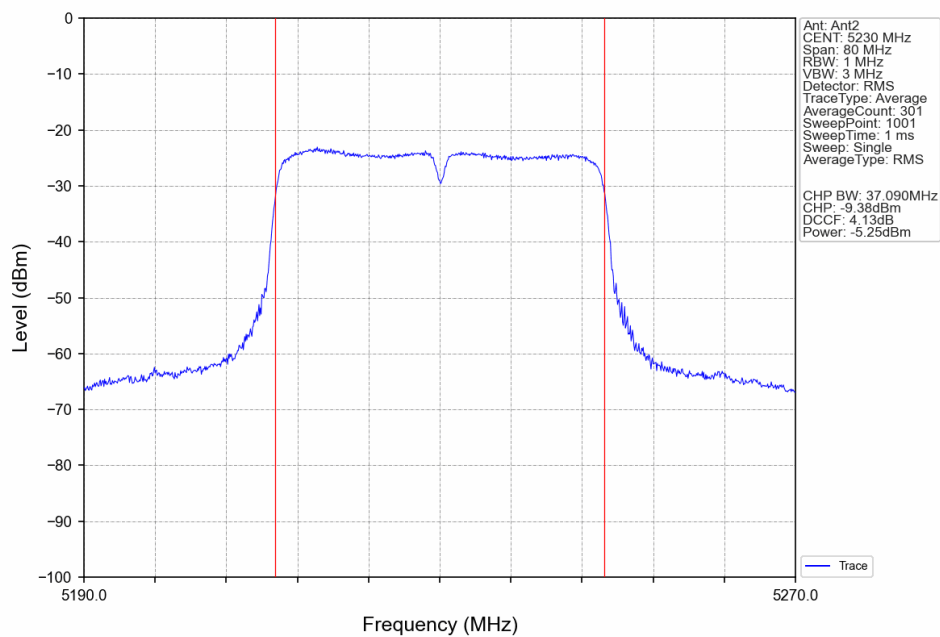
802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



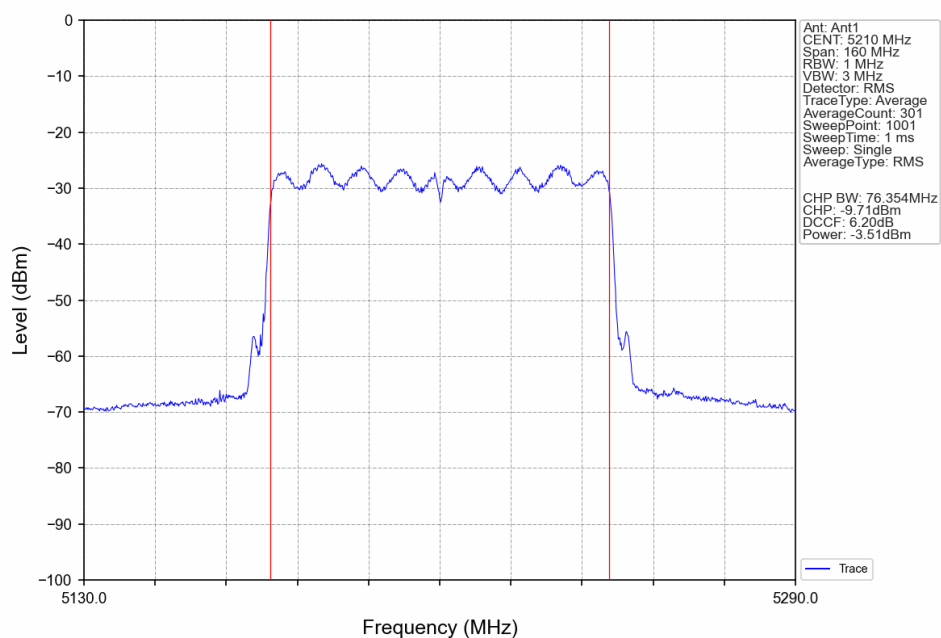
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



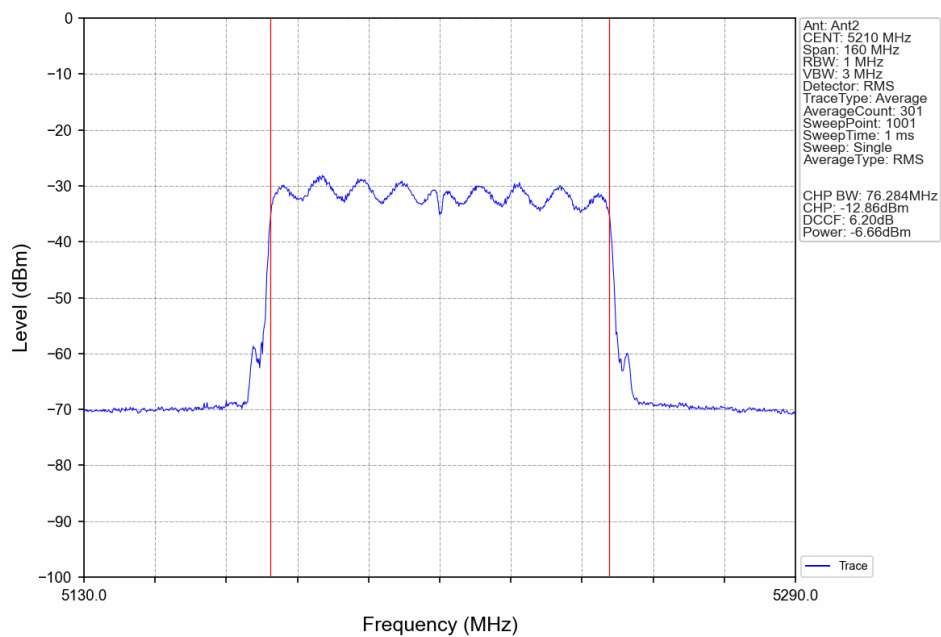
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



4. Maximum Power Spectral Density

4.1 Test Result

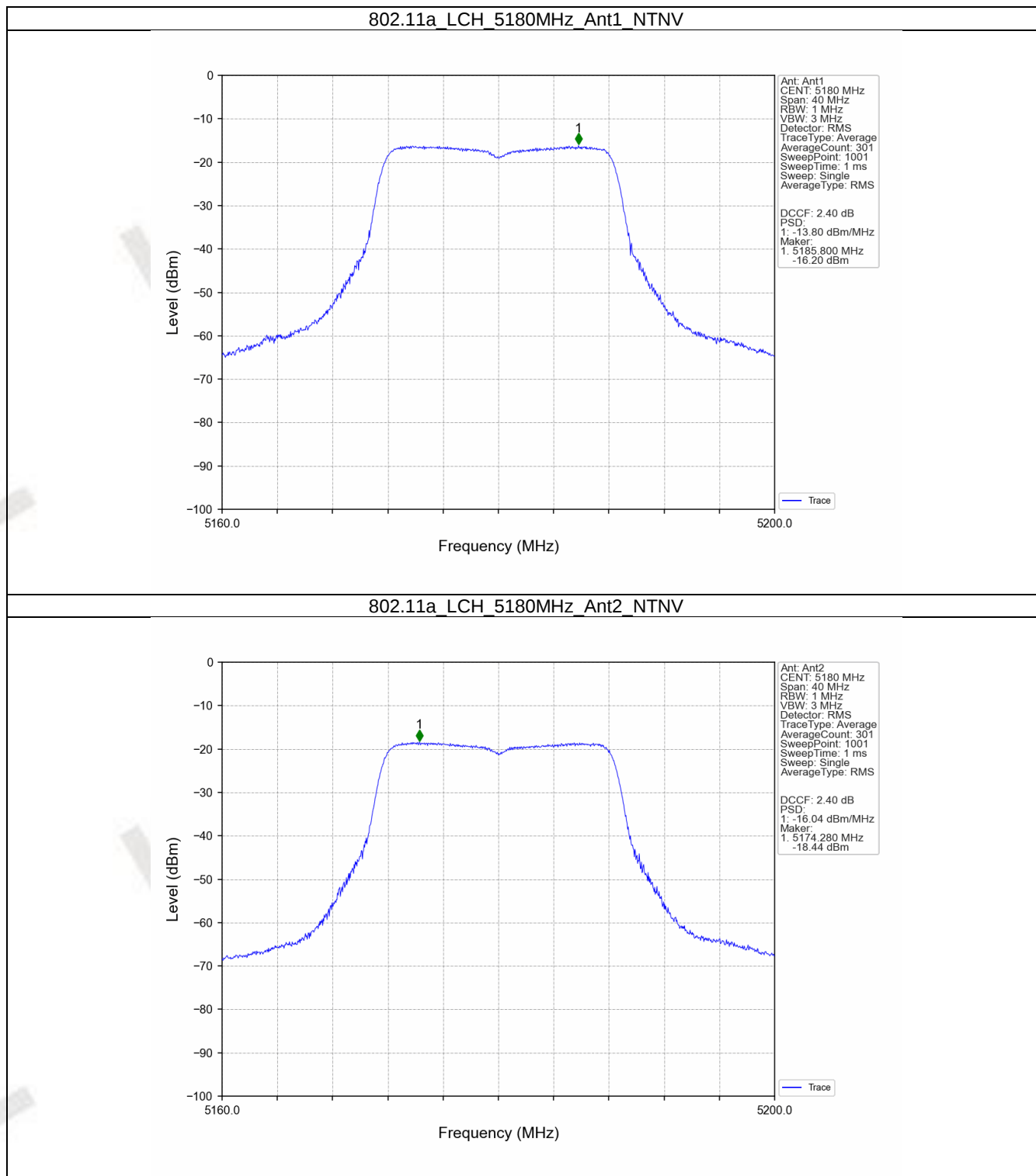
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)			Verdict
			ANT1	ANT2	Limit	
802.11a	SISO	5180	-13.80	-16.04	<=11	Pass
		5200	-13.66	-16.33	<=11	Pass
		5240	-14.03	-17.16	<=11	Pass
802.11n (HT20)	SISO	5180	-13.76	-16.23	<=11	Pass
		5200	-13.86	-16.82	<=11	Pass
		5240	-13.77	-17.43	<=11	Pass
802.11n (HT40)	SISO	5190	-16.32	-18.88	<=11	Pass
		5230	-16.20	-19.68	<=11	Pass
802.11ac (VHT20)	SISO	5180	-13.79	-16.40	<=11	Pass
		5200	-14.10	-16.47	<=11	Pass
		5240	-13.93	-17.46	<=11	Pass
802.11ac (VHT40)	SISO	5190	-16.04	-18.69	<=11	Pass
		5230	-16.19	-19.03	<=11	Pass
802.11ac (VHT80)	SISO	5210	-19.60	-22.70	<=11	Pass

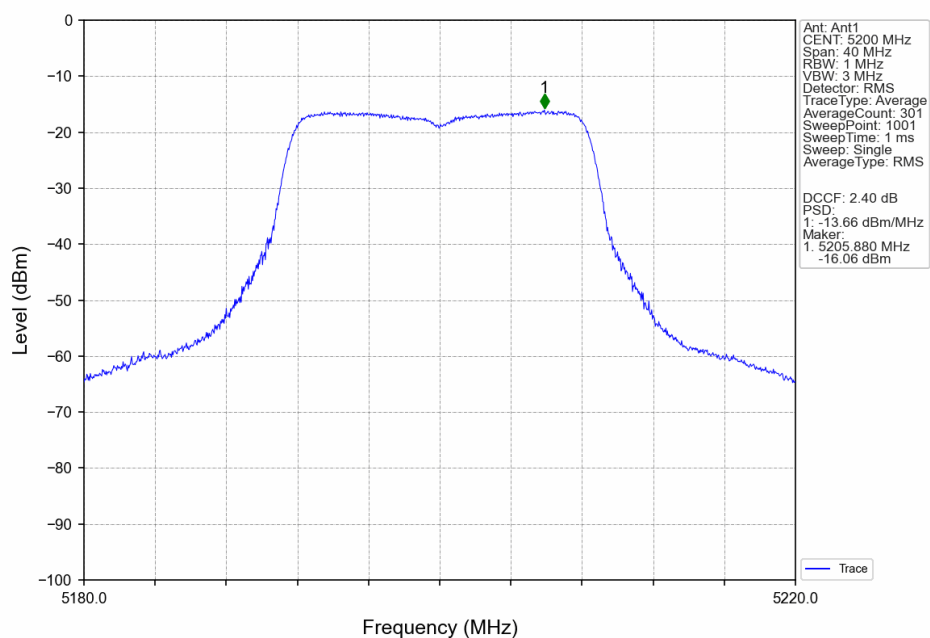
Note1: Antenna Gain: Ant1: 1.26dBi; Ant2: 1.20dBi;

4.2 Test Graph

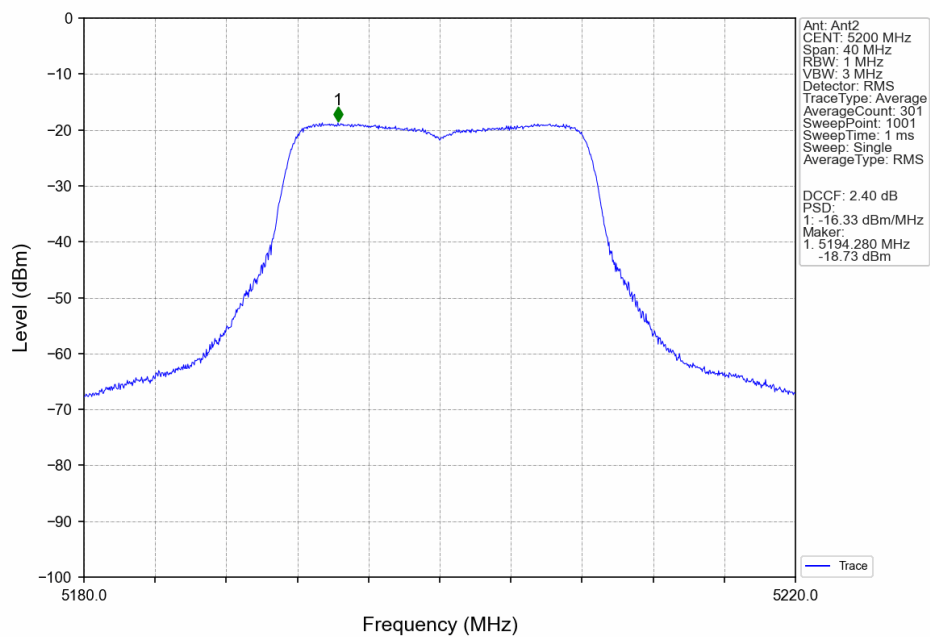
4.2.1 PSD



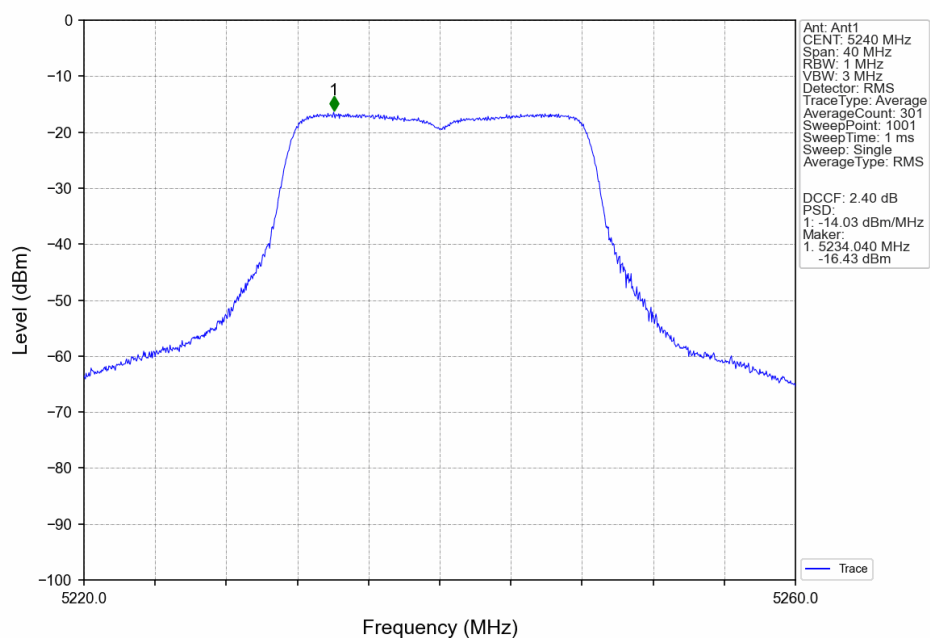
802.11a_MCH_5200MHz_Ant1_NTNV



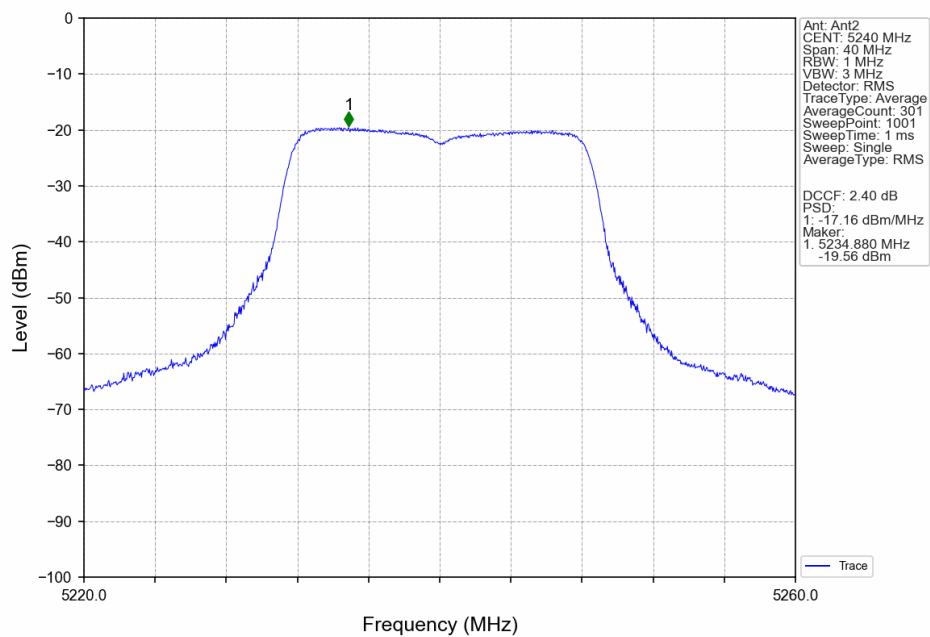
802.11a_MCH_5200MHz_Ant2_NTNV



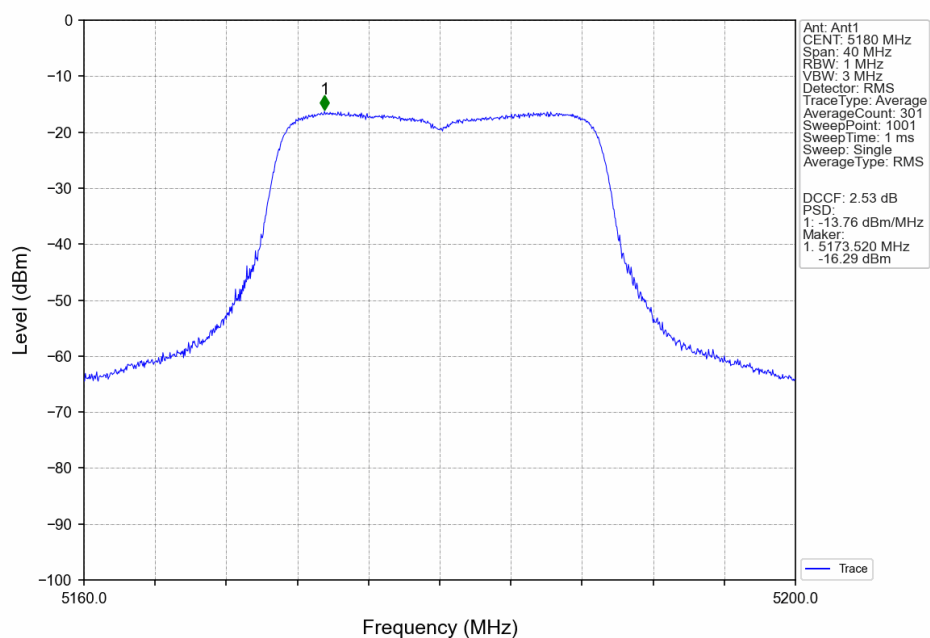
802.11a_HCH_5240MHz_Ant1_NTNV



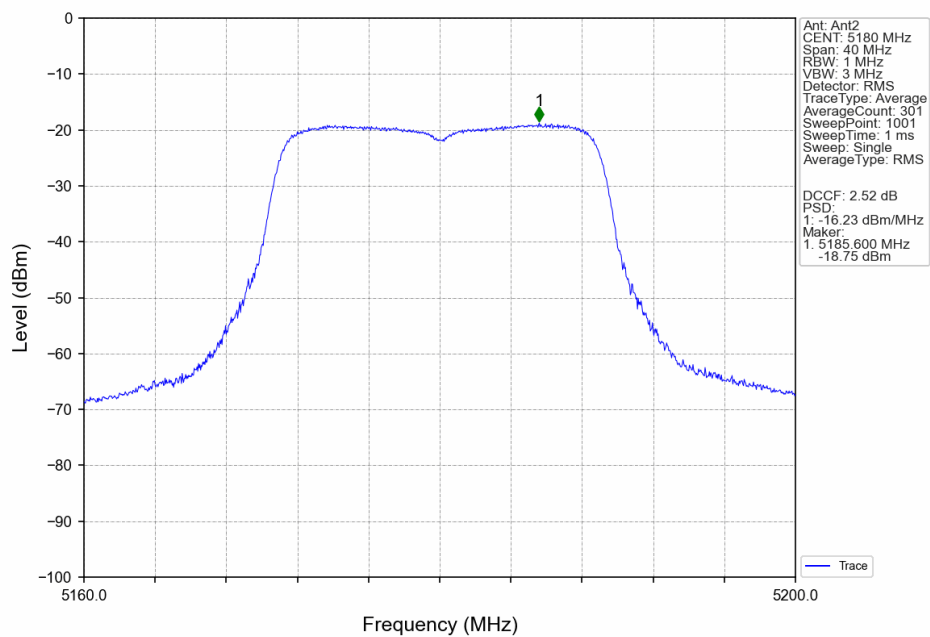
802.11a_HCH_5240MHz_Ant2_NTNV



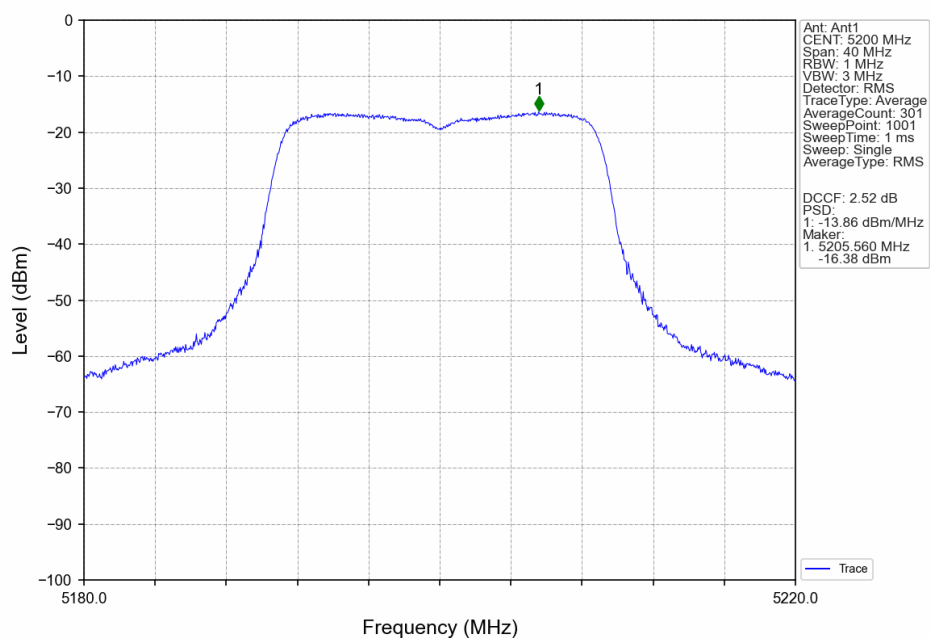
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



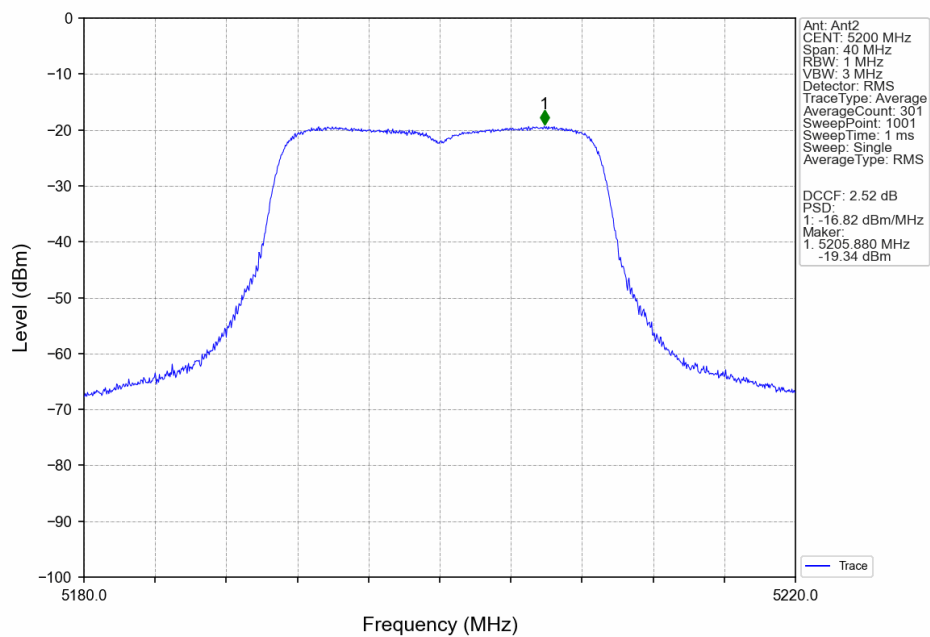
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



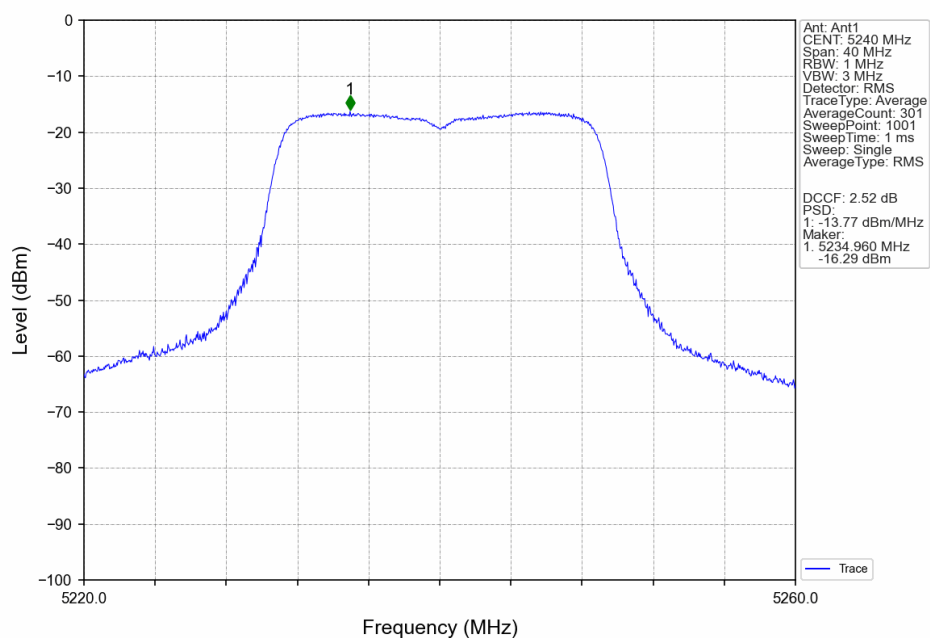
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



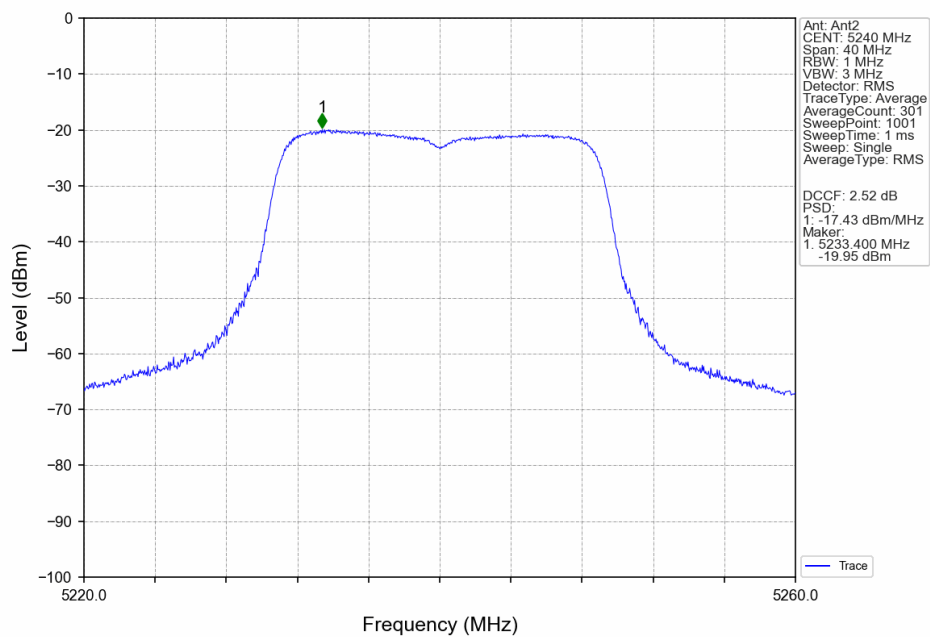
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



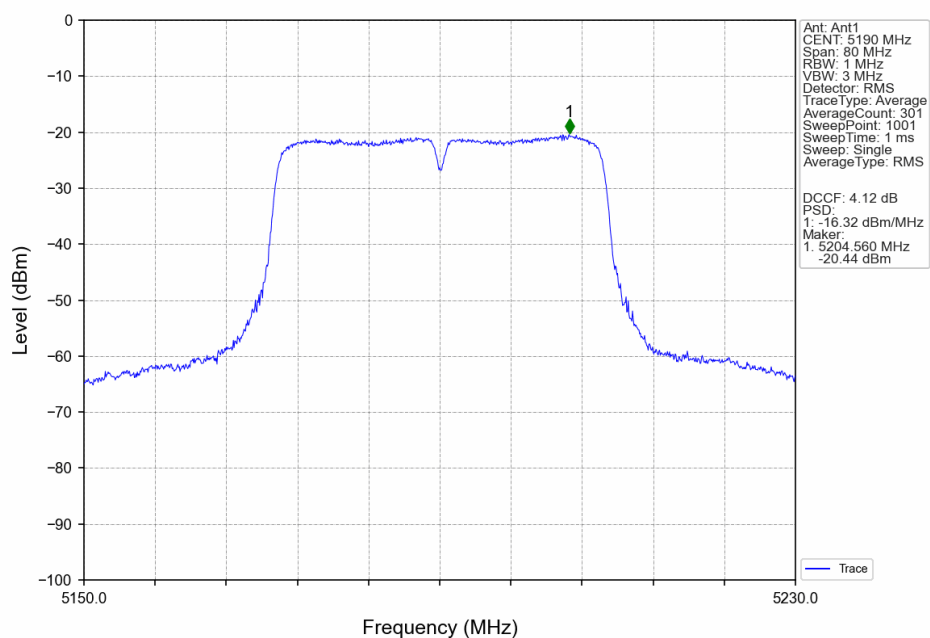
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



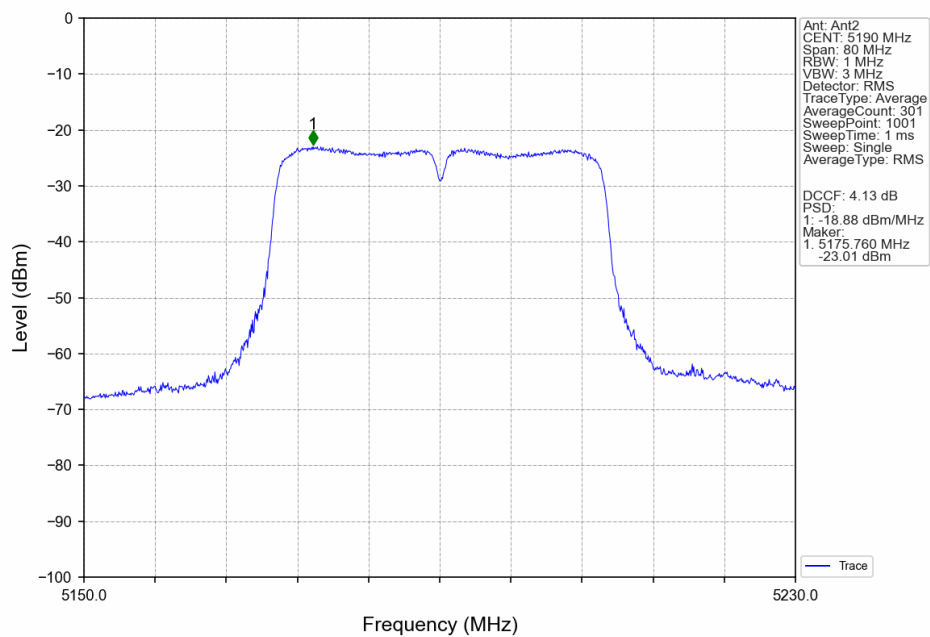
802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



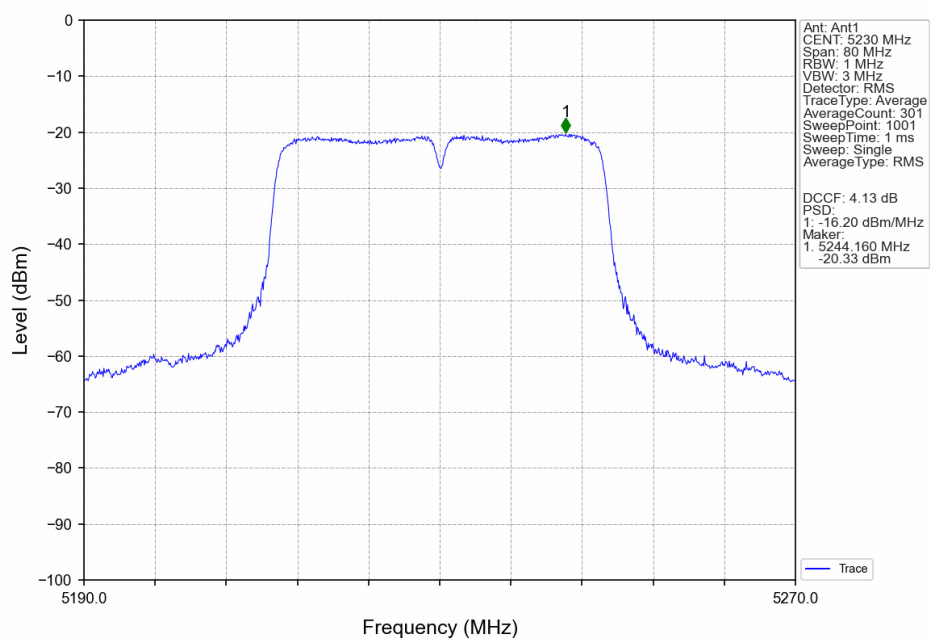
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



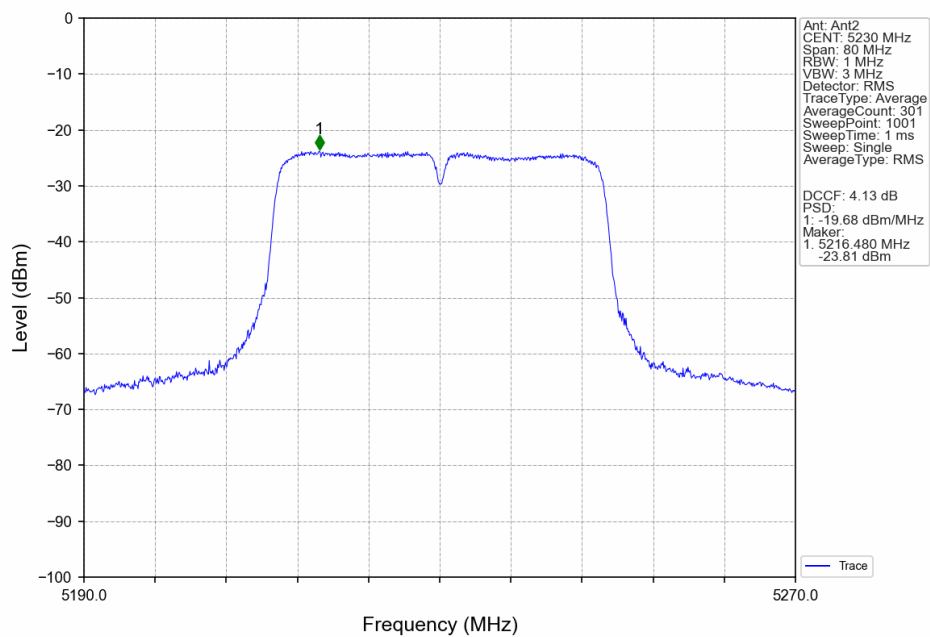
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



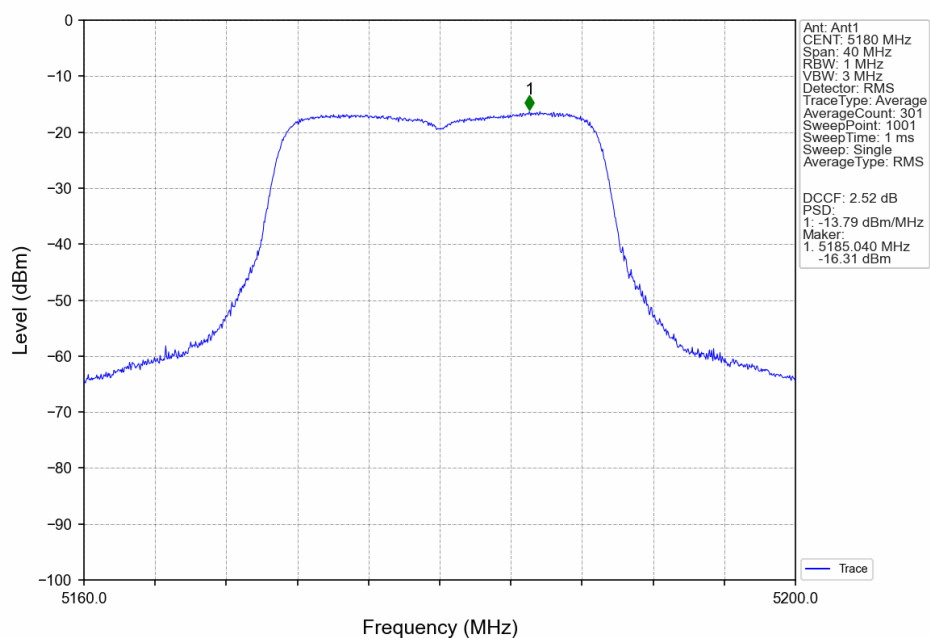
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



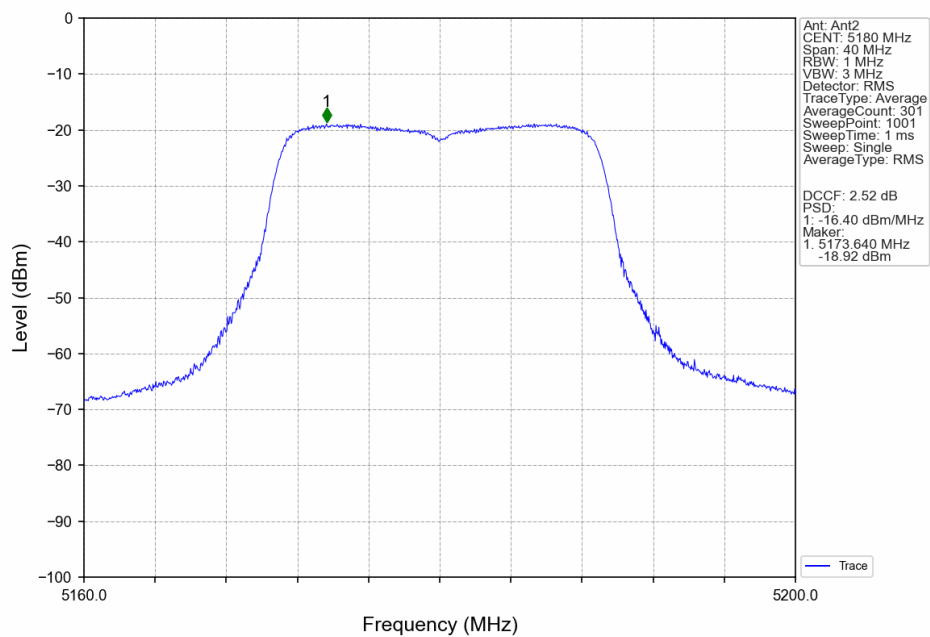
802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



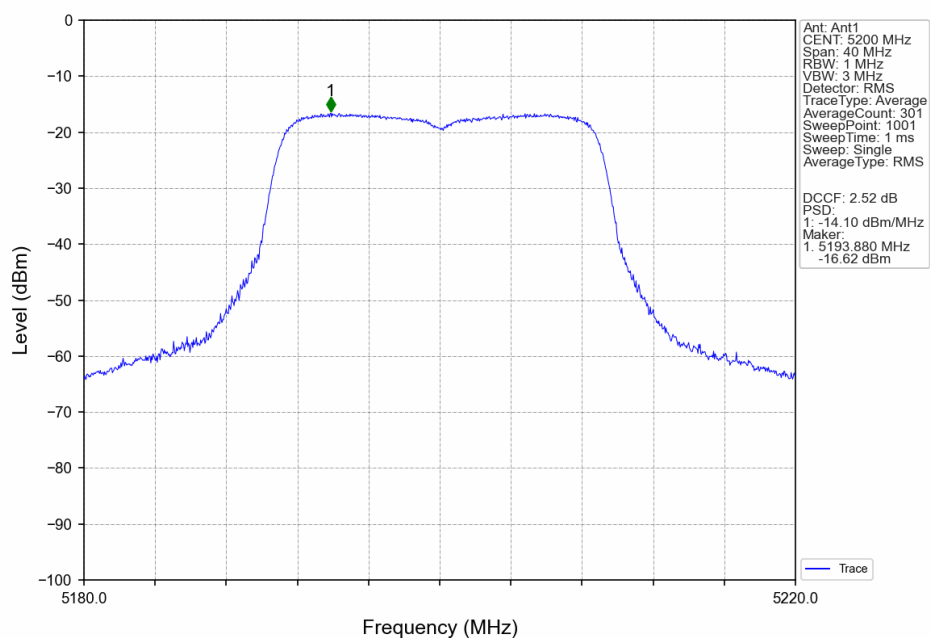
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



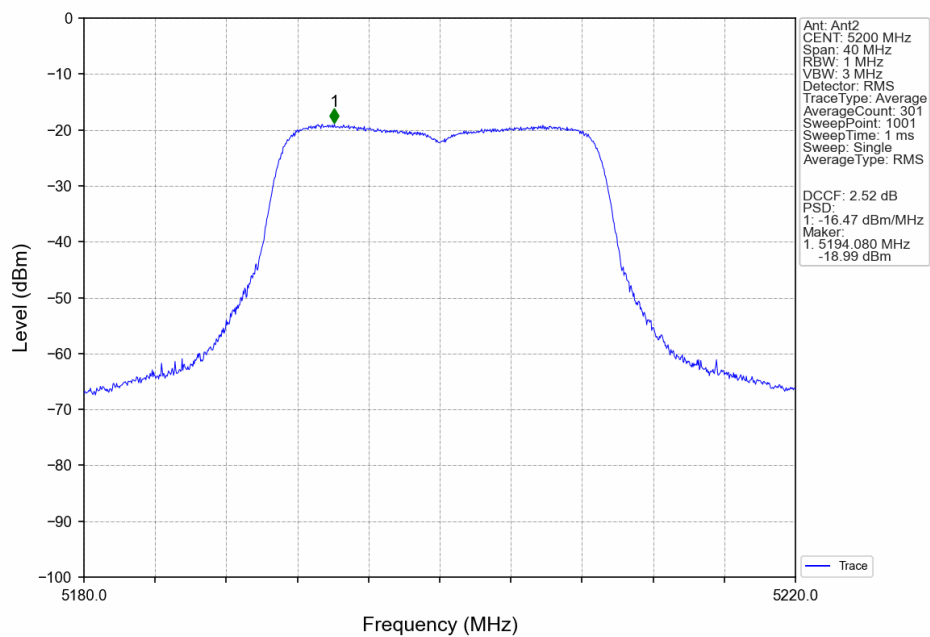
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



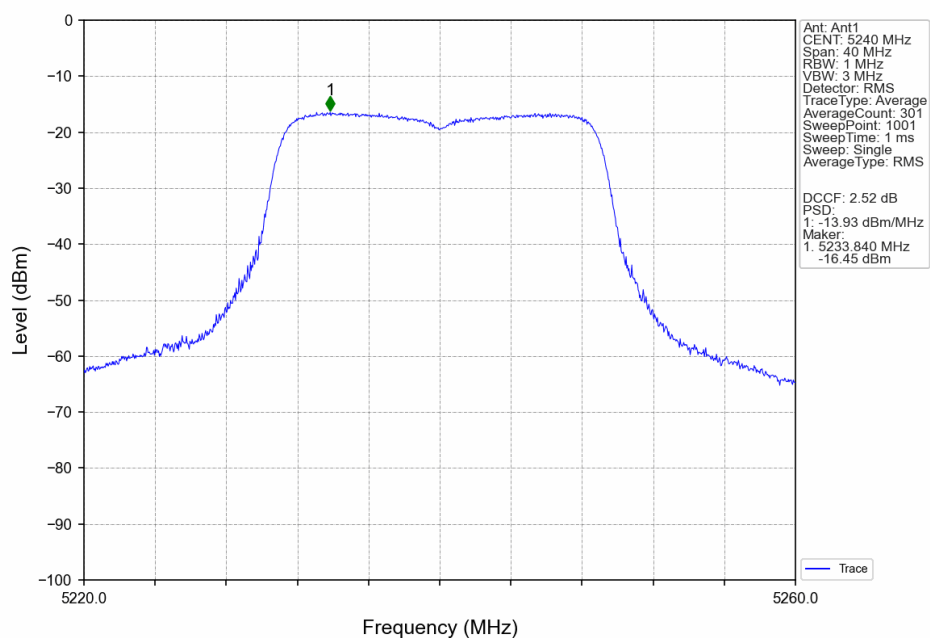
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



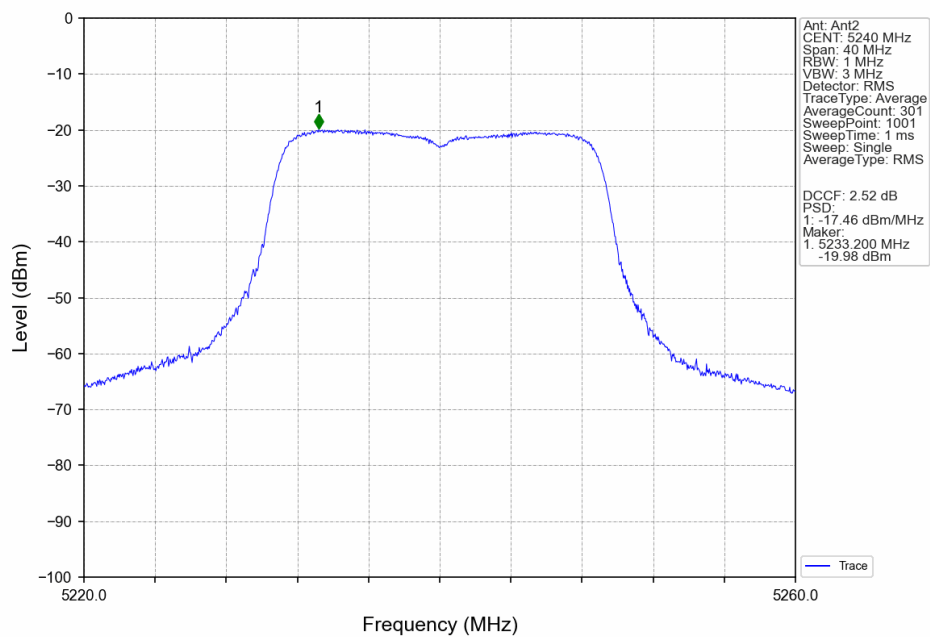
802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



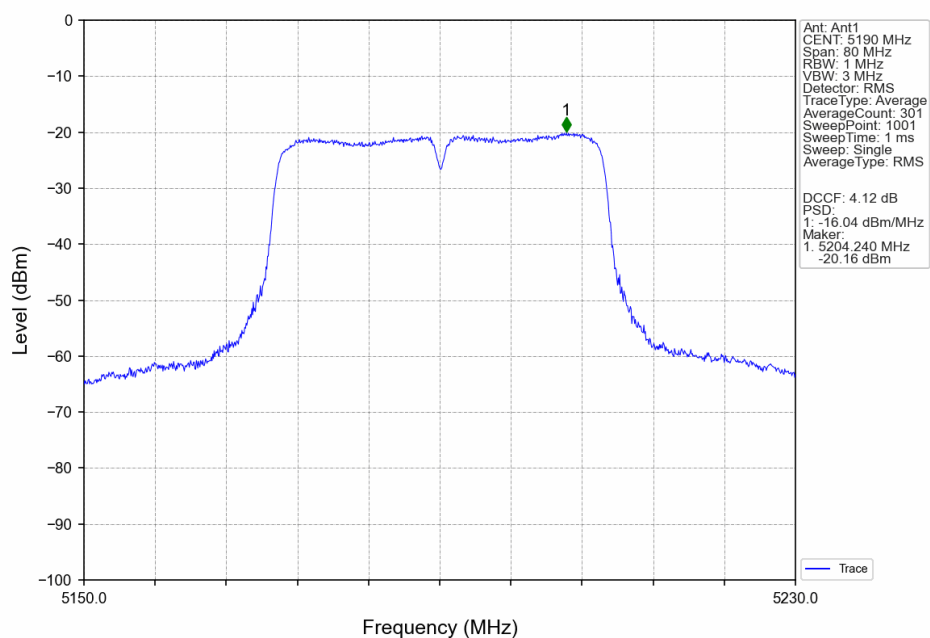
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



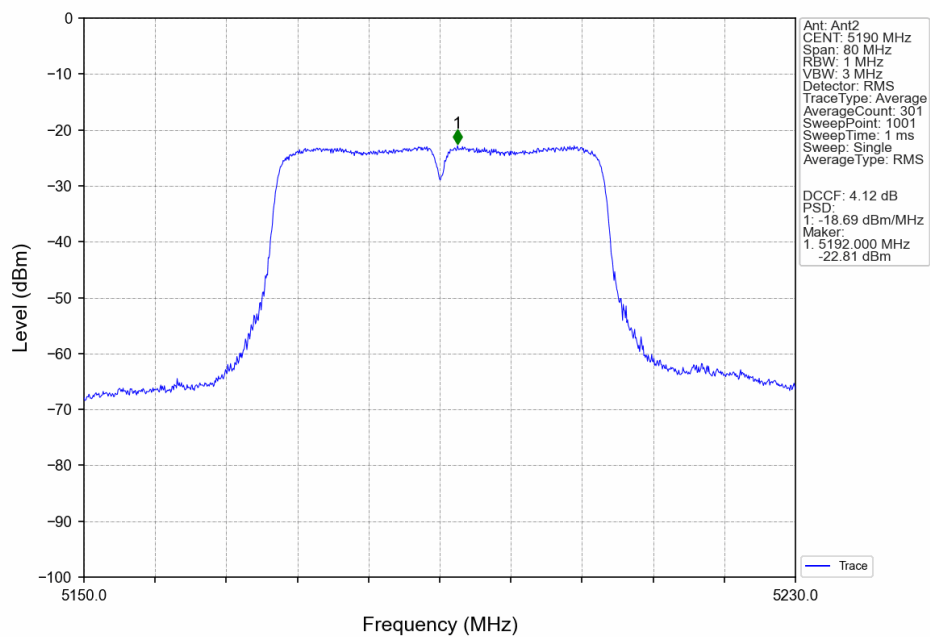
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



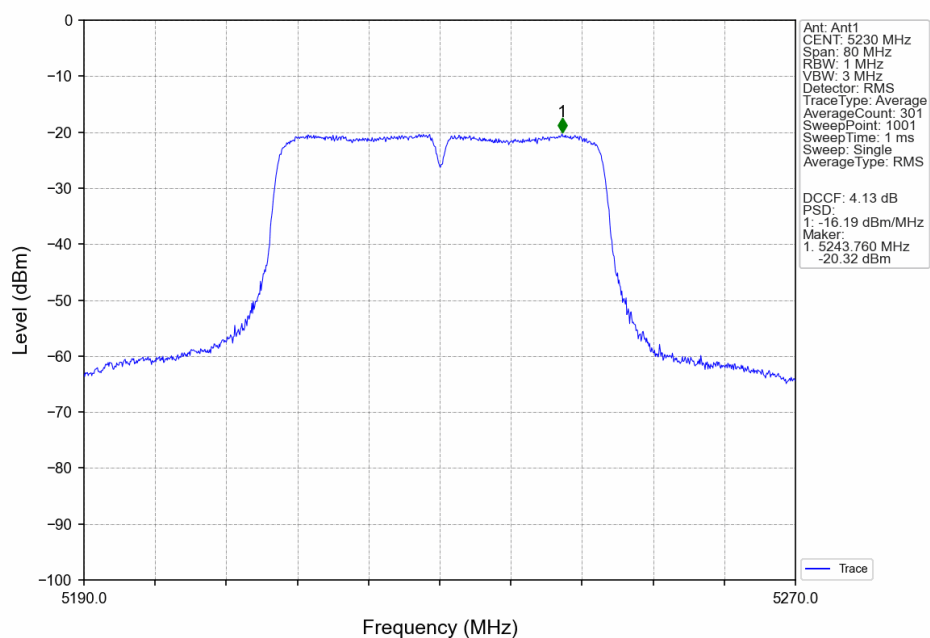
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



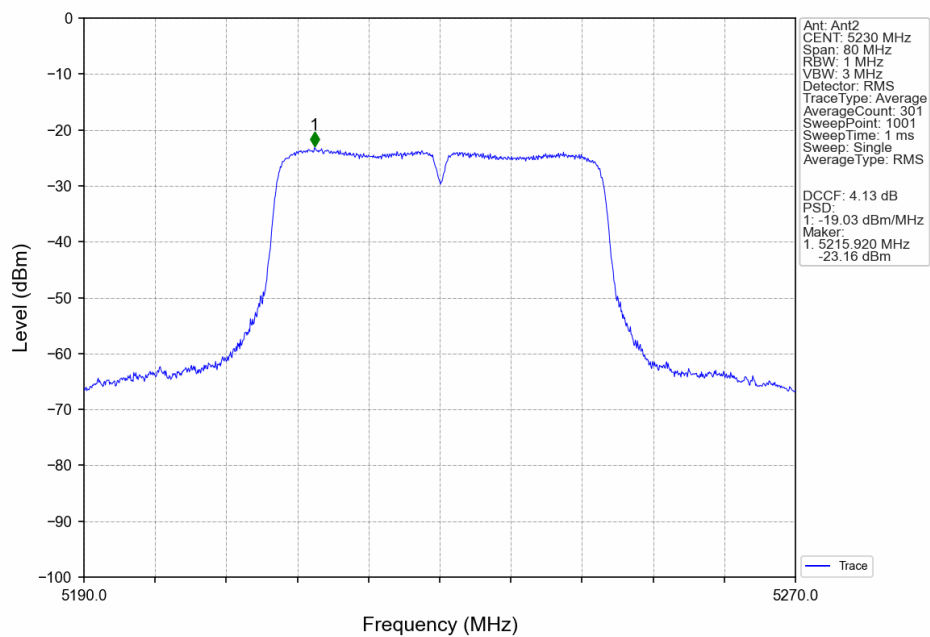
802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



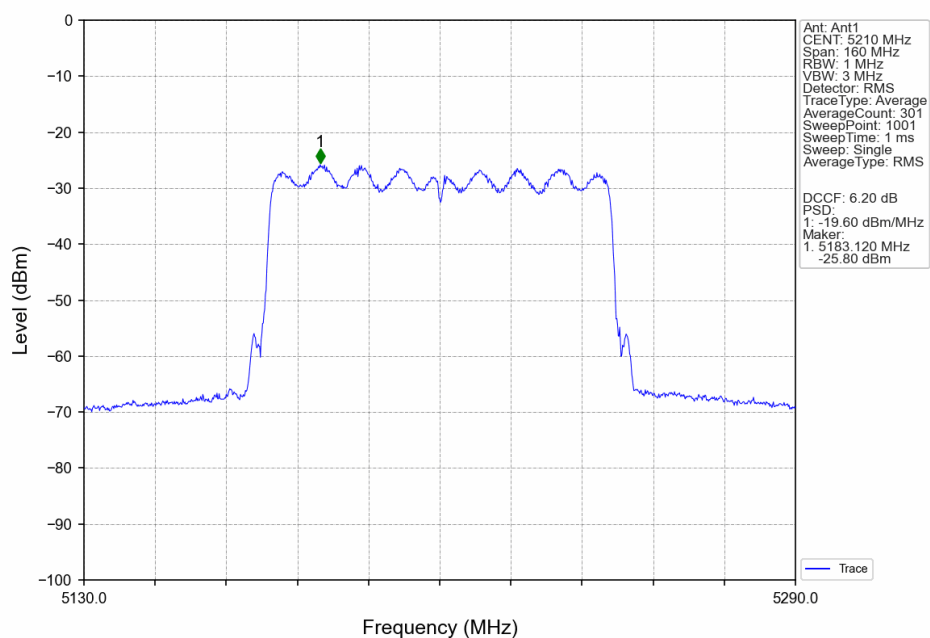
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



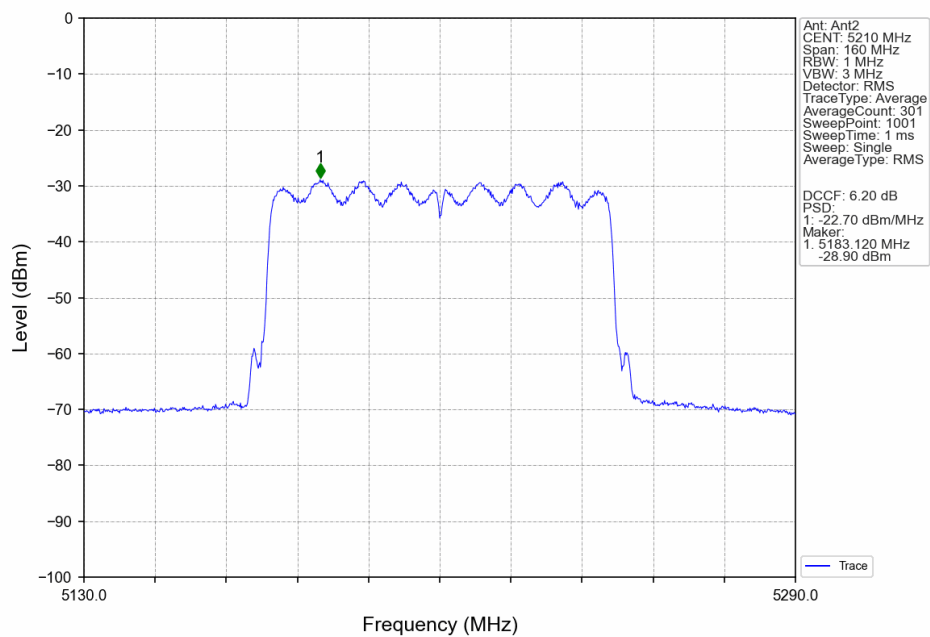
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5180	20	102	5179.993	5150 to 5250	Pass
				120	5179.993	5150 to 5250	Pass
				138	5179.992	5150 to 5250	Pass
			-30	120	5179.992	5150 to 5250	Pass
			-20	120	5179.992	5150 to 5250	Pass
			-10	120	5179.992	5150 to 5250	Pass
			0	120	5179.992	5150 to 5250	Pass
			10	120	5179.992	5150 to 5250	Pass
			30	120	5179.992	5150 to 5250	Pass
			40	120	5179.992	5150 to 5250	Pass
			50	120	5179.992	5150 to 5250	Pass
		5200	20	102	5199.992	5150 to 5250	Pass
				120	5199.992	5150 to 5250	Pass
				138	5199.992	5150 to 5250	Pass
			-30	120	5199.992	5150 to 5250	Pass
			-20	120	5199.991	5150 to 5250	Pass
			-10	120	5199.991	5150 to 5250	Pass
			0	120	5199.991	5150 to 5250	Pass
			10	120	5199.991	5150 to 5250	Pass
			30	120	5199.991	5150 to 5250	Pass
			40	120	5199.991	5150 to 5250	Pass
			50	120	5199.991	5150 to 5250	Pass
		5240	20	102	5239.993	5150 to 5250	Pass
				120	5239.992	5150 to 5250	Pass
				138	5239.992	5150 to 5250	Pass
			-30	120	5239.991	5150 to 5250	Pass
			-20	120	5239.991	5150 to 5250	Pass
			-10	120	5239.991	5150 to 5250	Pass
			0	120	5239.991	5150 to 5250	Pass
			10	120	5239.991	5150 to 5250	Pass
			30	120	5239.991	5150 to 5250	Pass
			40	120	5239.991	5150 to 5250	Pass
			50	120	5239.991	5150 to 5250	Pass
		5190	20	102	5189.992	5150 to 5250	Pass
				120	5189.991	5150 to 5250	Pass
				138	5189.991	5150 to 5250	Pass
			-30	120	5189.991	5150 to 5250	Pass
			-20	120	5189.991	5150 to 5250	Pass
			-10	120	5189.991	5150 to 5250	Pass
			0	120	5189.991	5150 to 5250	Pass
			10	120	5189.991	5150 to 5250	Pass
			30	120	5189.991	5150 to 5250	Pass
			40	120	5189.991	5150 to 5250	Pass
			50	120	5189.991	5150 to 5250	Pass
		5230	20	102	5229.991	5150 to 5250	Pass
				120	5229.991	5150 to 5250	Pass
				138	5229.991	5150 to 5250	Pass
			-30	120	5229.991	5150 to 5250	Pass
			-20	120	5229.991	5150 to 5250	Pass
			-10	120	5229.990	5150 to 5250	Pass

			0	120	5229.990	5150 to 5250	Pass
			10	120	5229.990	5150 to 5250	Pass
			30	120	5229.990	5150 to 5250	Pass
			40	120	5229.990	5150 to 5250	Pass
			50	120	5229.990	5150 to 5250	Pass
		5210	20	102	5209.992	5150 to 5250	Pass
				120	5209.992	5150 to 5250	Pass
				138	5209.991	5150 to 5250	Pass
			-30	120	5209.991	5150 to 5250	Pass
			-20	120	5209.991	5150 to 5250	Pass
			-10	120	5209.991	5150 to 5250	Pass
			0	120	5209.991	5150 to 5250	Pass
			10	120	5209.991	5150 to 5250	Pass
			30	120	5209.991	5150 to 5250	Pass
			40	120	5209.991	5150 to 5250	Pass
			50	120	5209.990	5150 to 5250	Pass

5.1.2 Ant2

Ant2							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5180	20	102	5179.994	5150 to 5250	Pass
				120	5179.992	5150 to 5250	Pass
				138	5179.992	5150 to 5250	Pass
			-30	120	5179.992	5150 to 5250	Pass
			-20	120	5179.991	5150 to 5250	Pass
			-10	120	5179.991	5150 to 5250	Pass
			0	120	5179.991	5150 to 5250	Pass
			10	120	5179.991	5150 to 5250	Pass
			30	120	5179.991	5150 to 5250	Pass
			40	120	5179.991	5150 to 5250	Pass
			50	120	5179.991	5150 to 5250	Pass
		5200	20	102	5199.993	5150 to 5250	Pass
				120	5199.992	5150 to 5250	Pass
				138	5199.991	5150 to 5250	Pass
			-30	120	5199.991	5150 to 5250	Pass
			-20	120	5199.991	5150 to 5250	Pass
			-10	120	5199.991	5150 to 5250	Pass
			0	120	5199.991	5150 to 5250	Pass
			10	120	5199.991	5150 to 5250	Pass
			30	120	5199.991	5150 to 5250	Pass
			40	120	5199.991	5150 to 5250	Pass
			50	120	5199.991	5150 to 5250	Pass
		5240	20	102	5239.993	5150 to 5250	Pass
				120	5239.991	5150 to 5250	Pass
				138	5239.991	5150 to 5250	Pass
			-30	120	5239.991	5150 to 5250	Pass
			-20	120	5239.991	5150 to 5250	Pass
			-10	120	5239.991	5150 to 5250	Pass
			0	120	5239.990	5150 to 5250	Pass
			10	120	5239.990	5150 to 5250	Pass
			30	120	5239.990	5150 to 5250	Pass
			40	120	5239.990	5150 to 5250	Pass
			50	120	5239.990	5150 to 5250	Pass
		5190	20	102	5189.994	5150 to 5250	Pass
				120	5189.992	5150 to 5250	Pass
				138	5189.991	5150 to 5250	Pass
			-30	120	5189.991	5150 to 5250	Pass

			-20	120	5189.991	5150 to 5250	Pass
			-10	120	5189.991	5150 to 5250	Pass
			0	120	5189.991	5150 to 5250	Pass
			10	120	5189.991	5150 to 5250	Pass
			30	120	5189.991	5150 to 5250	Pass
			40	120	5189.991	5150 to 5250	Pass
			50	120	5189.991	5150 to 5250	Pass
		5230	20	102	5229.992	5150 to 5250	Pass
				120	5229.991	5150 to 5250	Pass
				138	5229.991	5150 to 5250	Pass
			-30	120	5229.990	5150 to 5250	Pass
			-20	120	5229.990	5150 to 5250	Pass
			-10	120	5229.990	5150 to 5250	Pass
			0	120	5229.990	5150 to 5250	Pass
			10	120	5229.990	5150 to 5250	Pass
			30	120	5229.990	5150 to 5250	Pass
			40	120	5229.990	5150 to 5250	Pass
			50	120	5229.990	5150 to 5250	Pass
		5210	20	102	5209.992	5150 to 5250	Pass
				120	5209.991	5150 to 5250	Pass
				138	5209.991	5150 to 5250	Pass
			-30	120	5209.991	5150 to 5250	Pass
			-20	120	5209.990	5150 to 5250	Pass
			-10	120	5209.990	5150 to 5250	Pass
			0	120	5209.990	5150 to 5250	Pass
			10	120	5209.990	5150 to 5250	Pass
			30	120	5209.990	5150 to 5250	Pass
			40	120	5209.990	5150 to 5250	Pass
			50	120	5209.990	5150 to 5250	Pass