1. Bandwidth

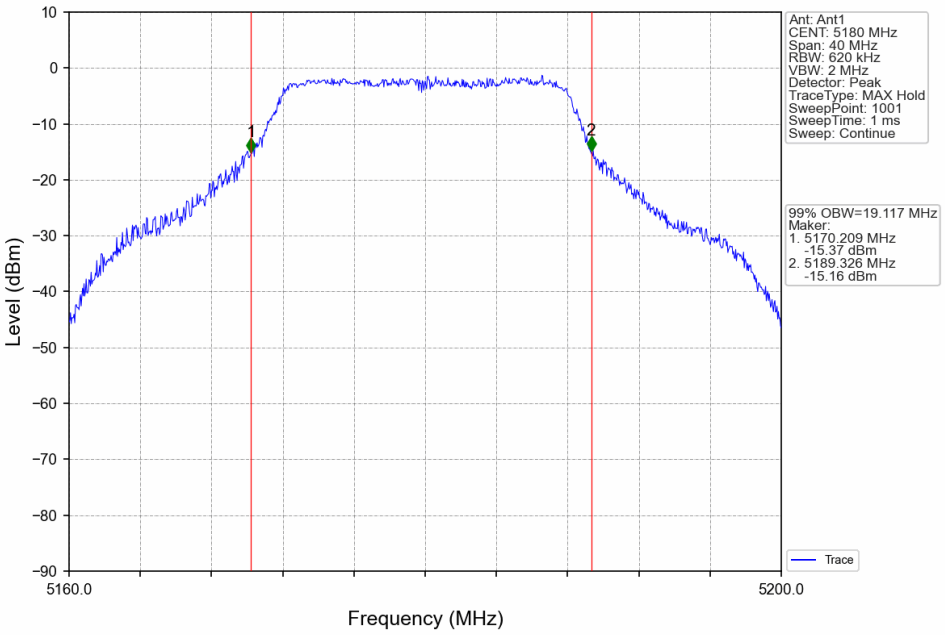
1.1 OBW

1.1.1 Test Result

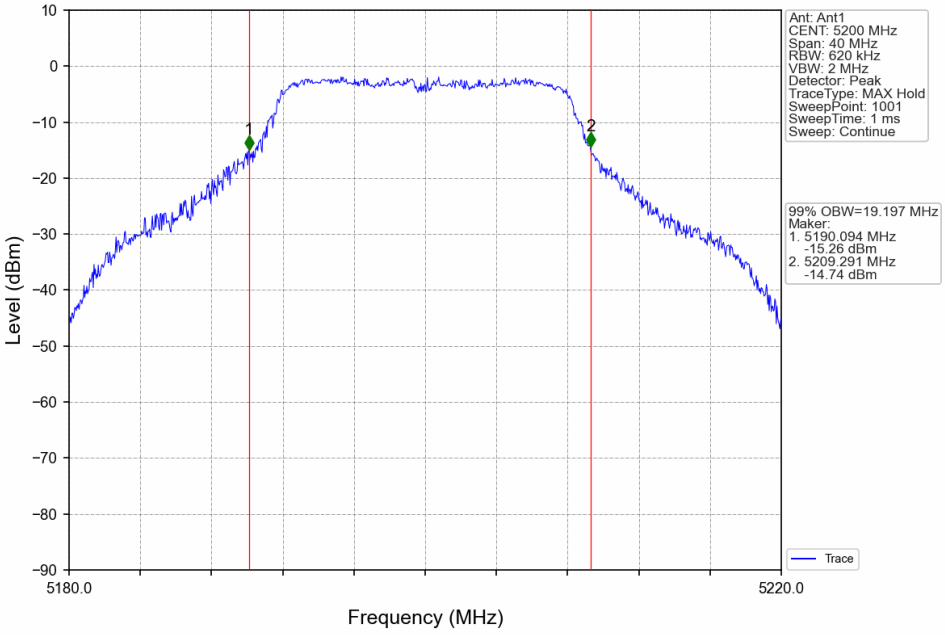
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	19.117	/	Pass
		5200	1	19.197	/	Pass
		5240	1	19.269	/	Pass
802.11n (HT20)	SISO	5180	1	20.732	/	Pass
		5200	1	20.890	/	Pass
		5240	1	20.721	/	Pass
802.11n (HT40)	SISO	5190	1	38.165	/	Pass
		5230	1	38.127	/	Pass
802.11ac (VHT20)	SISO	5180	1	20.174	/	Pass
		5200	1	20.245	/	Pass
		5240	1	19.991	/	Pass
802.11ac (VHT40)	SISO	5190	1	37.830	/	Pass
		5230	1	37.803	/	Pass

1.1.2 Test Graph

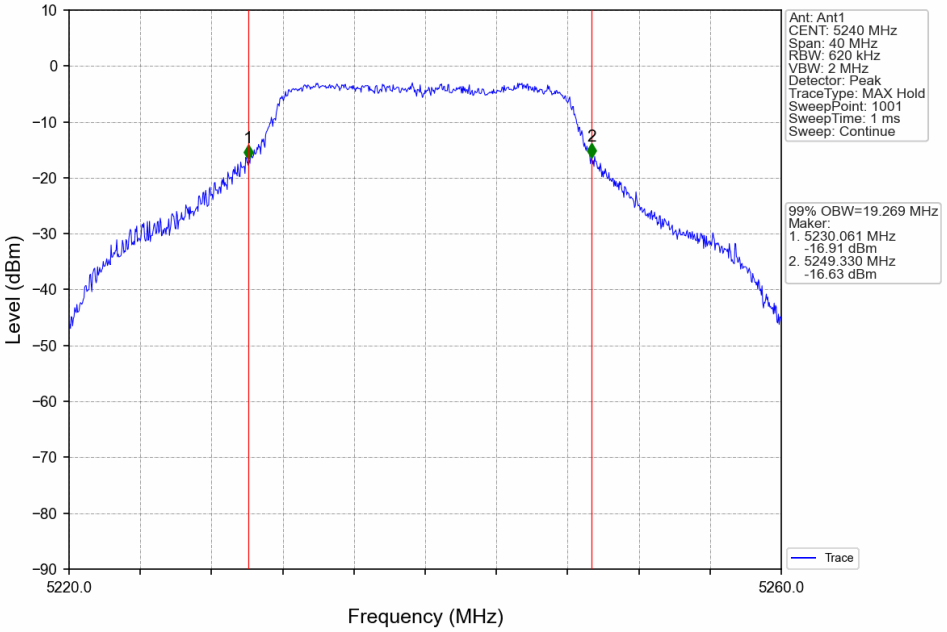
802.11a_LCH_5180MHz_Ant1_NTNV



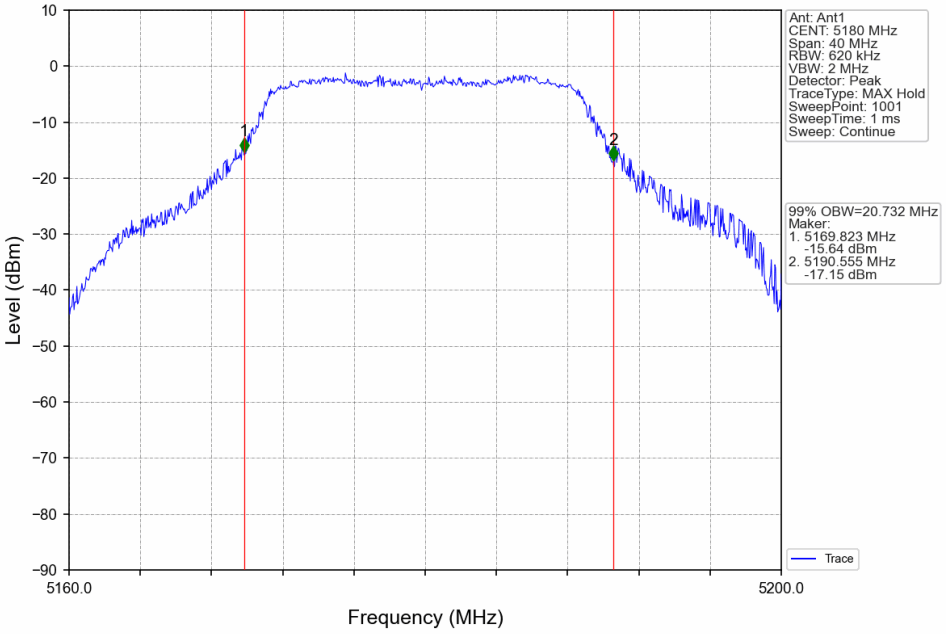
802.11a_MCH_5200MHz_Ant1_NTNV



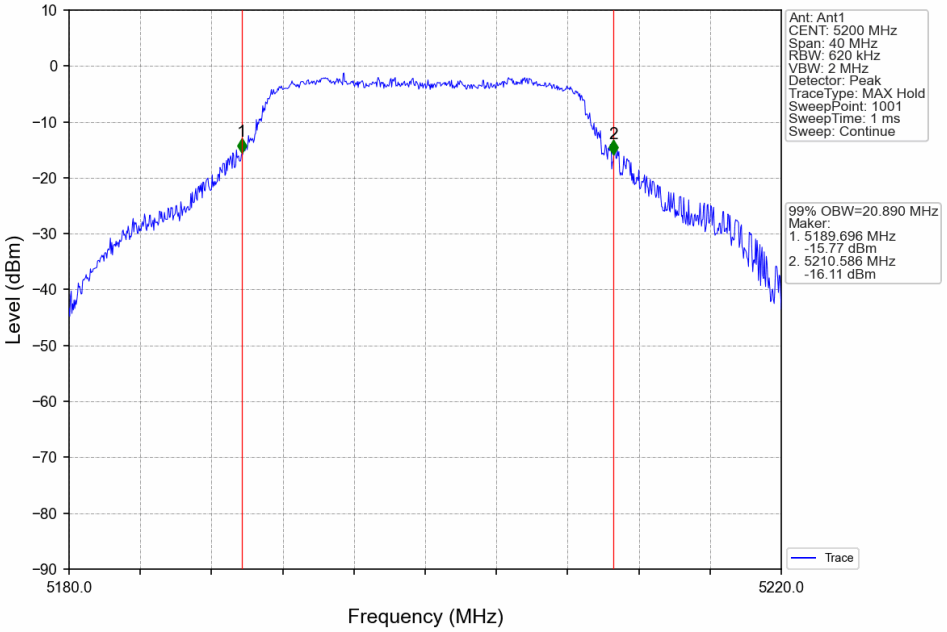
802.11a_HCH_5240MHz_Ant1_NTNV



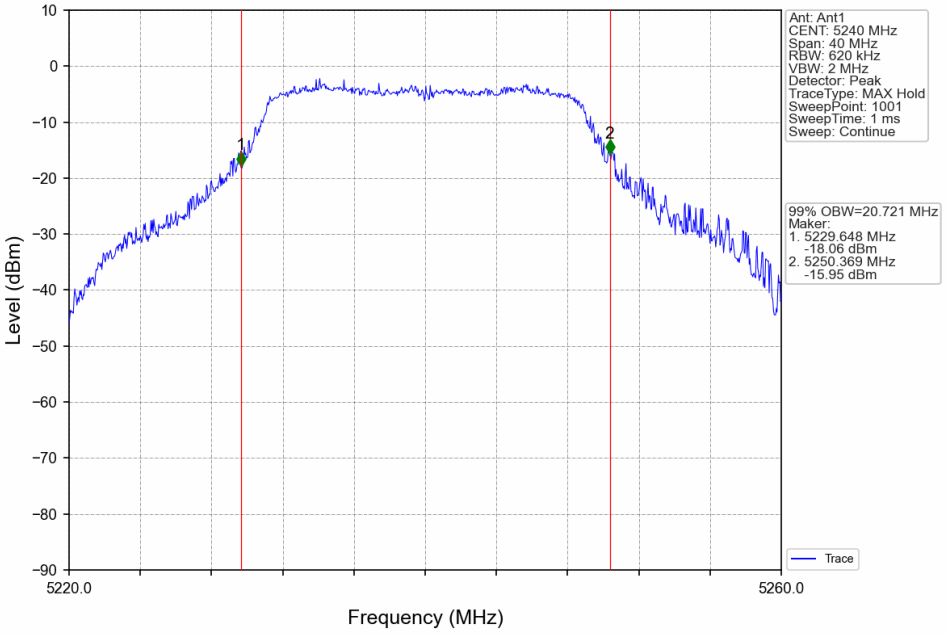
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



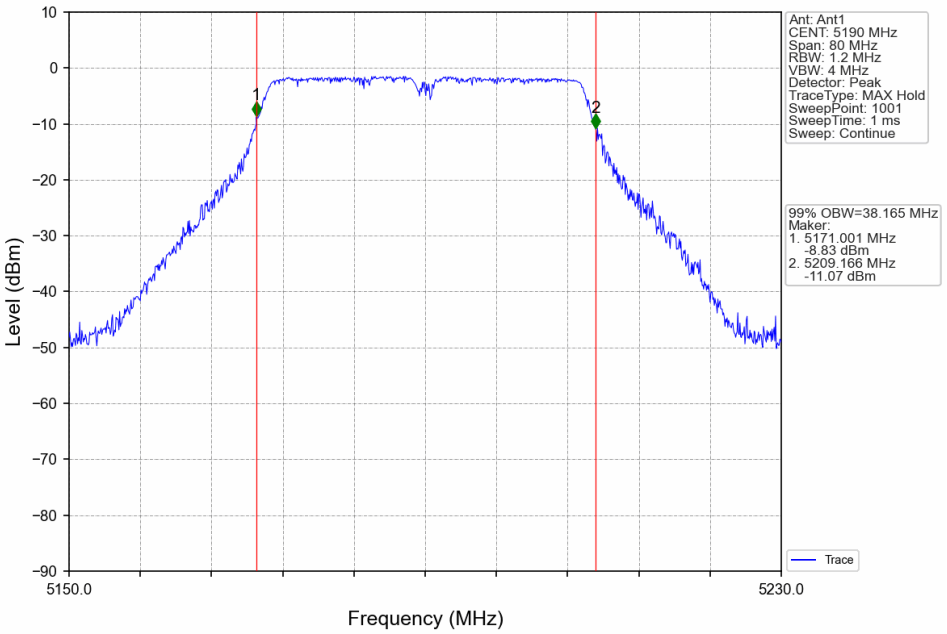
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



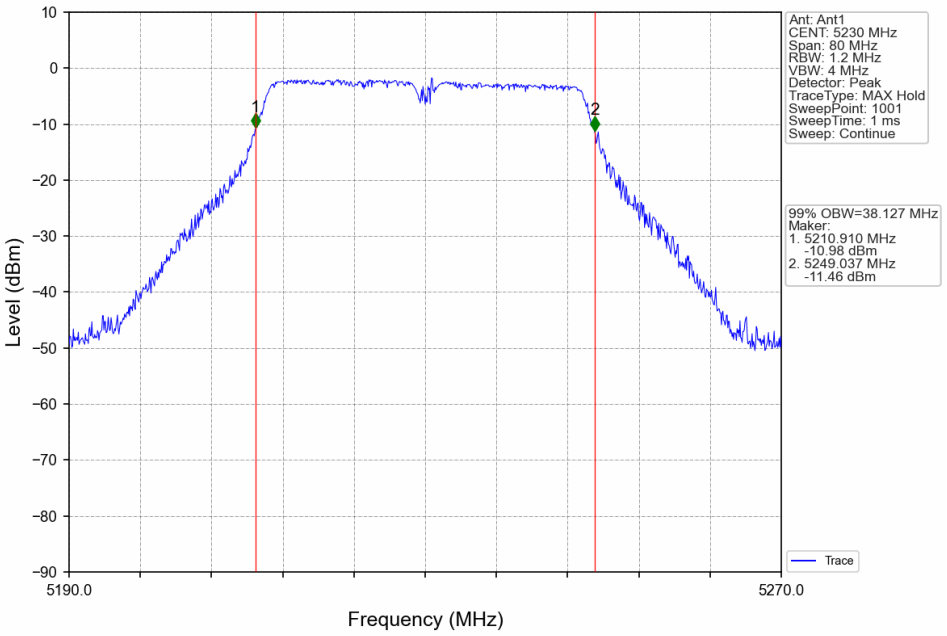
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



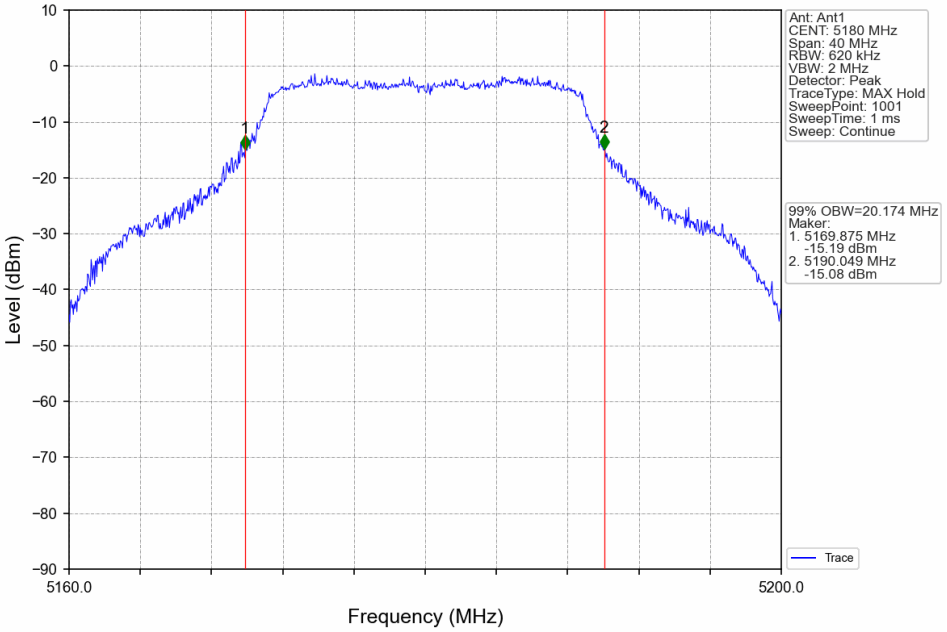
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



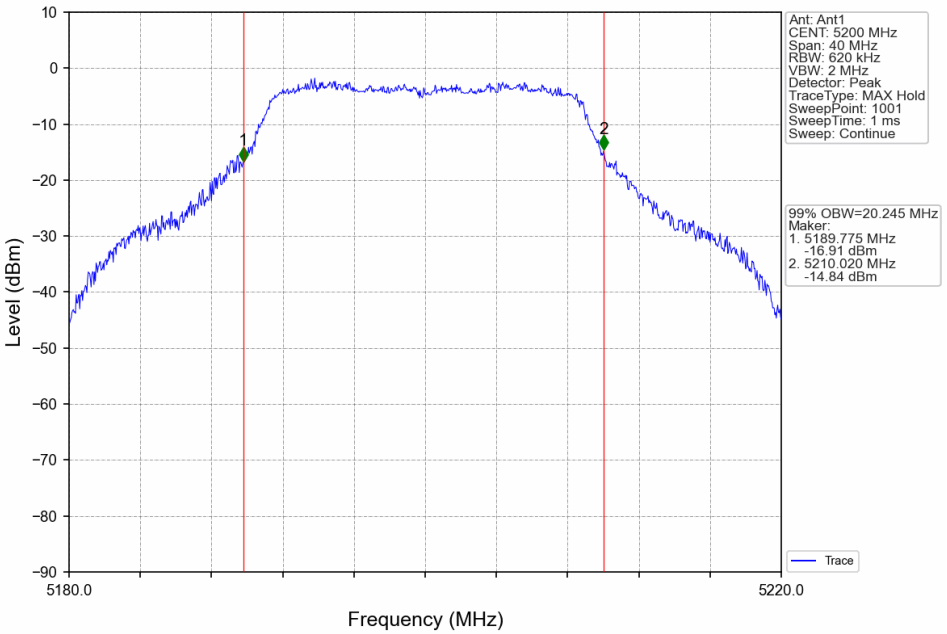
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



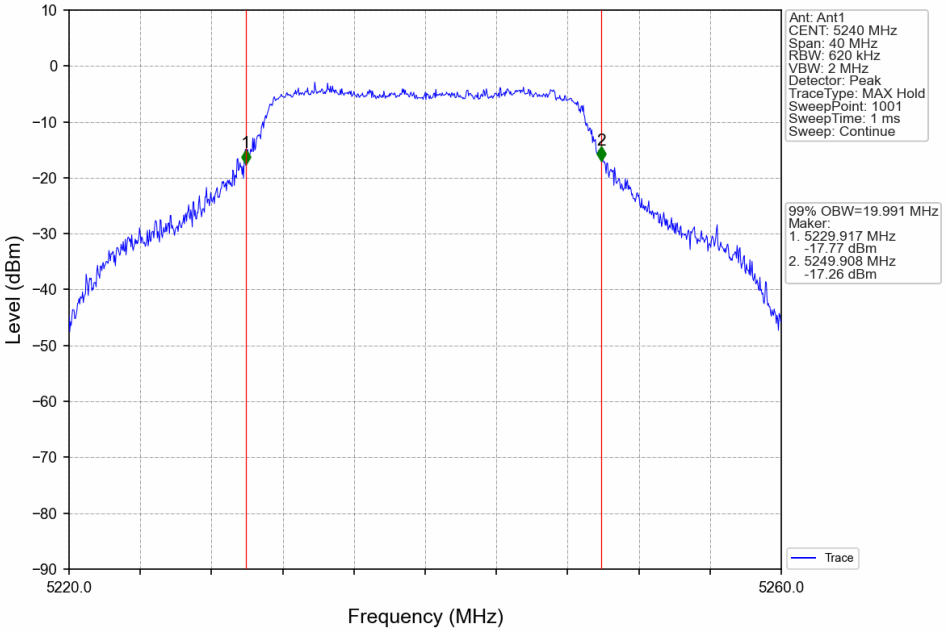
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



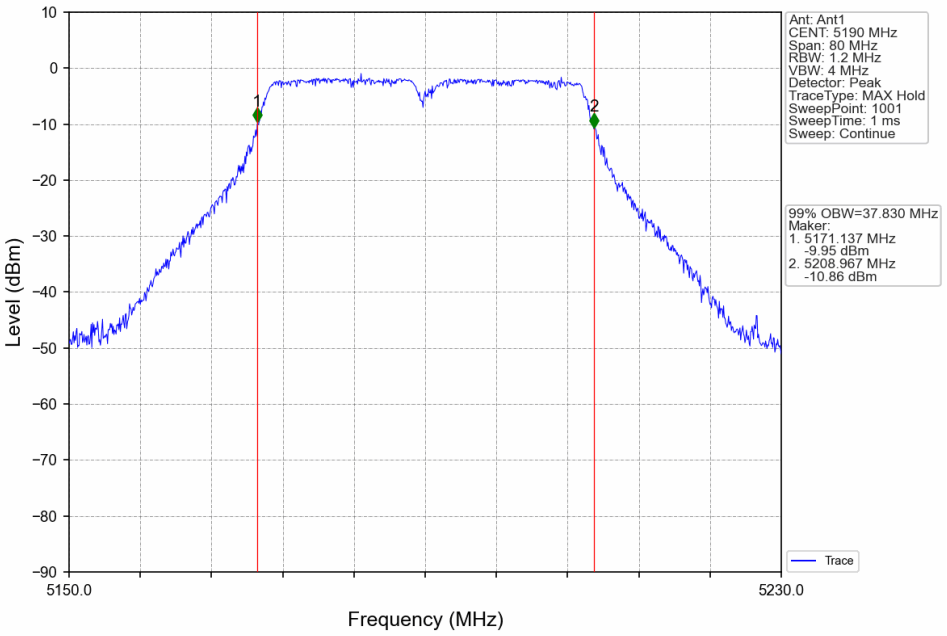
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



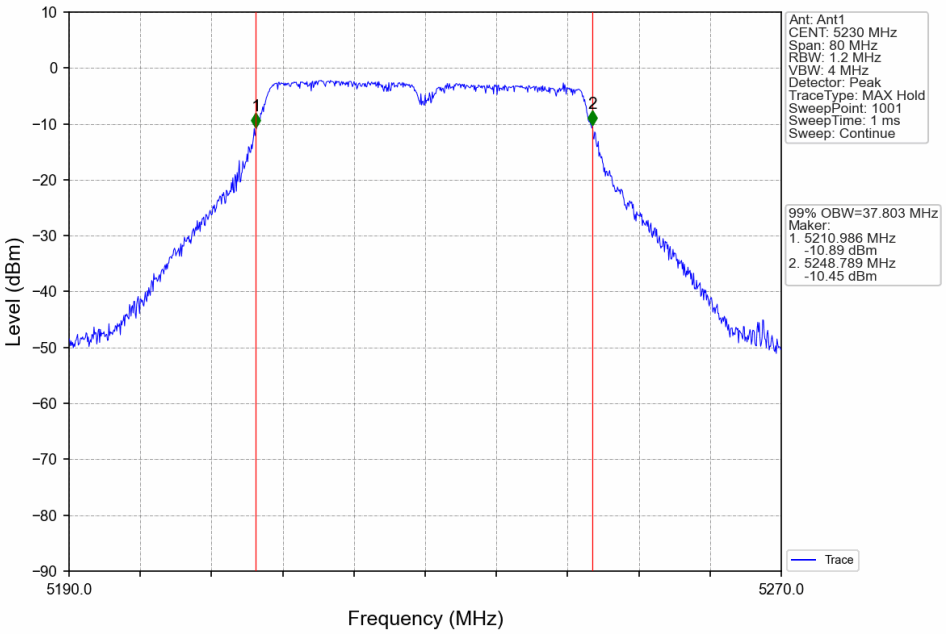
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



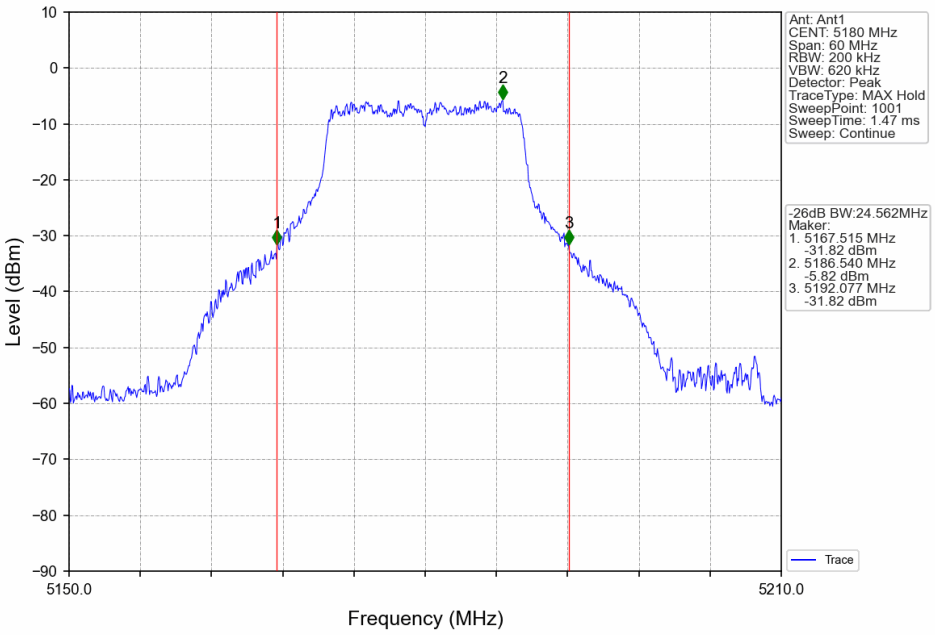
1.2 26dB BW

1.2.1 Test Result

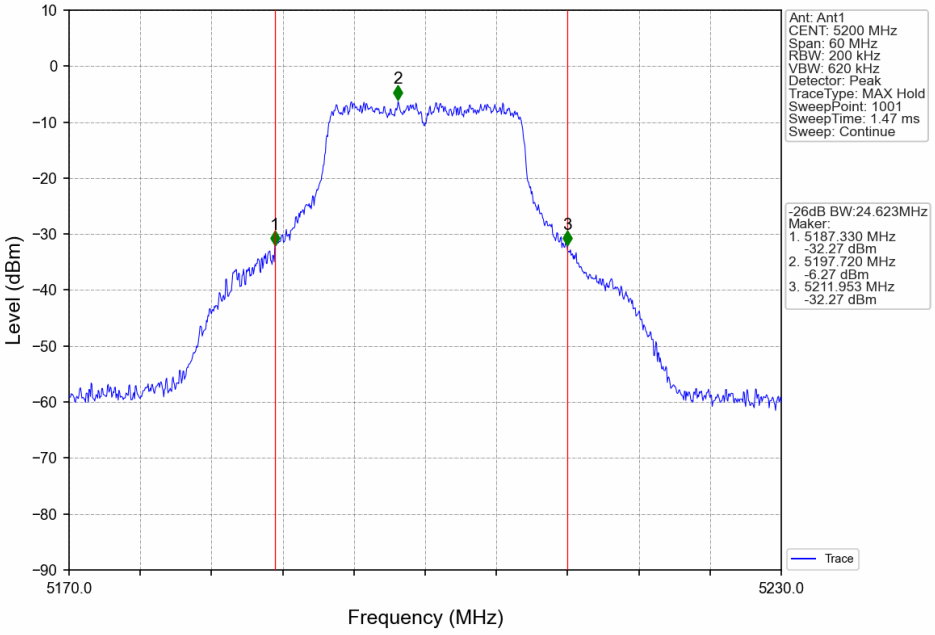
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	24.562	/	Pass
		5200	1	24.623	/	Pass
		5240	1	24.827	/	Pass
802.11n (HT20)	SISO	5180	1	26.923	/	Pass
		5200	1	26.604	/	Pass
		5240	1	27.199	/	Pass
802.11n (HT40)	SISO	5190	1	48.070	/	Pass
		5230	1	47.210	/	Pass
802.11ac (VHT20)	SISO	5180	1	25.014	/	Pass
		5200	1	24.743	/	Pass
		5240	1	25.308	/	Pass
802.11ac (VHT40)	SISO	5190	1	46.438	/	Pass
		5230	1	46.270	/	Pass

1.2.2 Test Graph

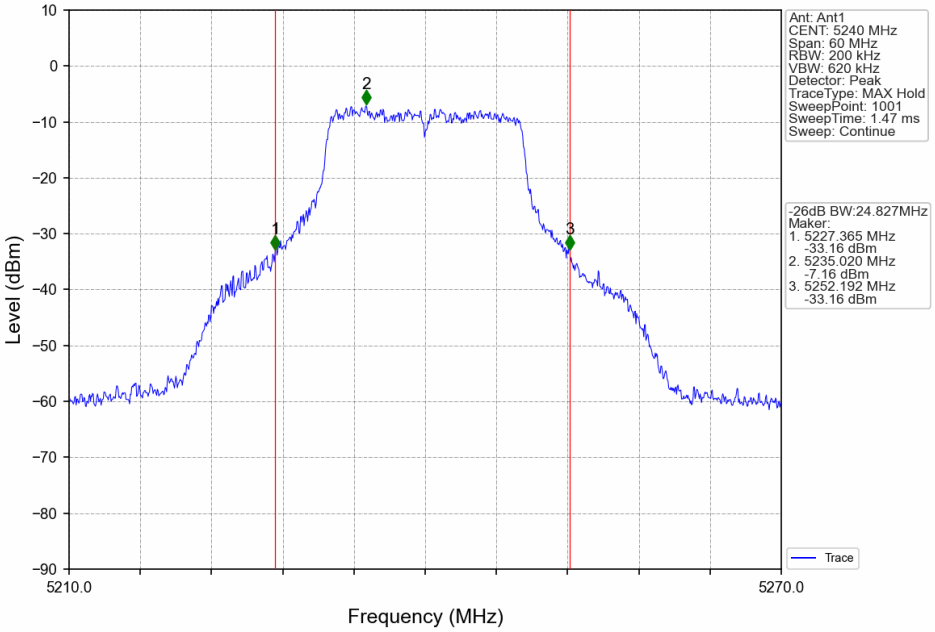
802.11a_LCH_5180MHz_Ant1_NTNV



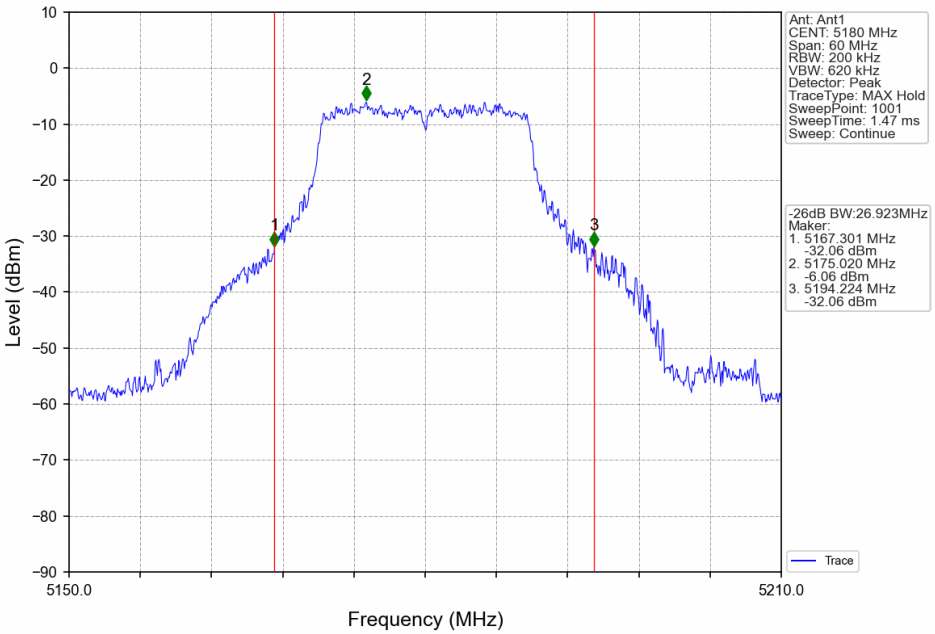
802.11a_MCH_5200MHz_Ant1_NTNV



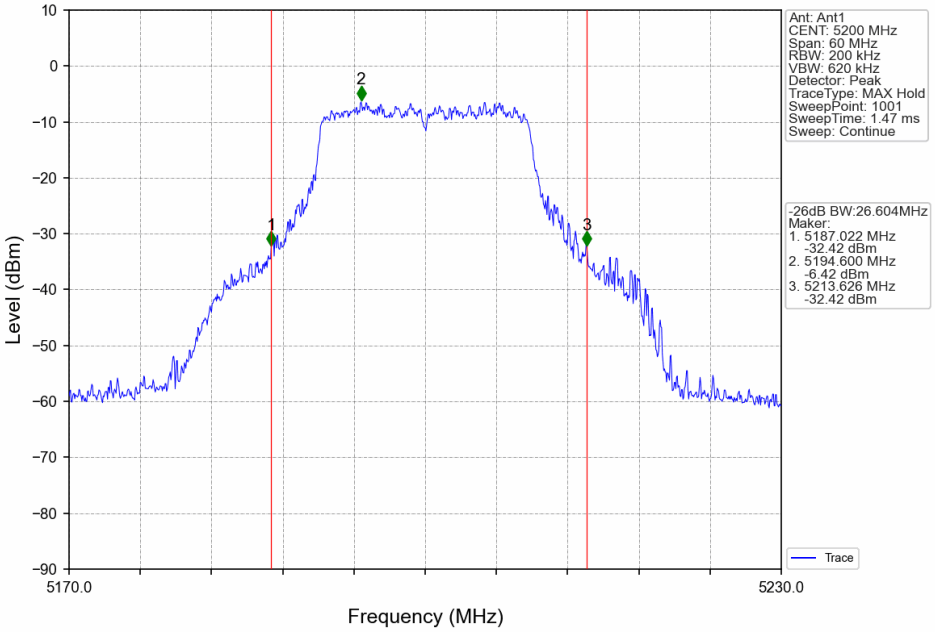
802.11a_HCH_5240MHz_Ant1_NTNV



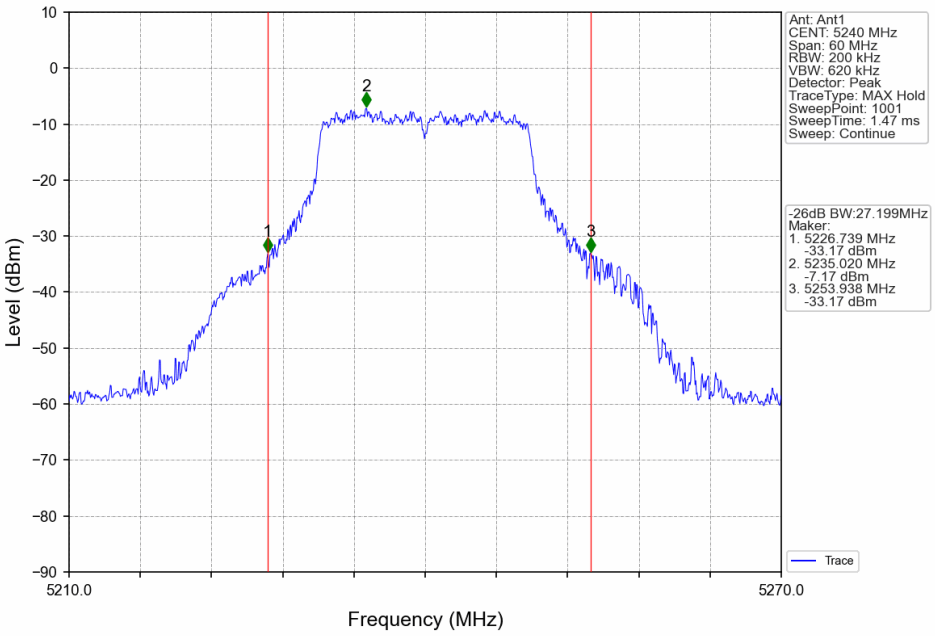
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



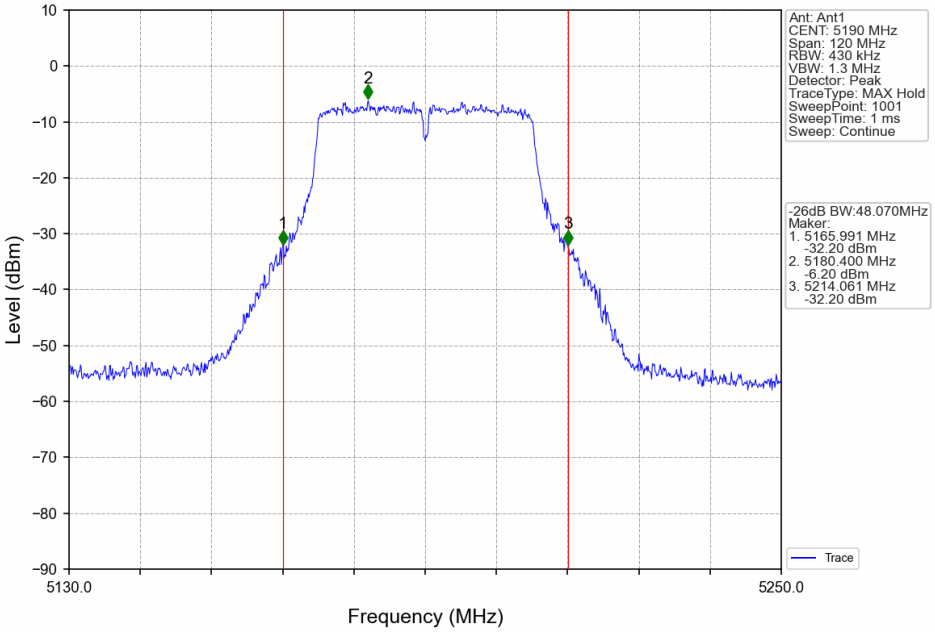
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



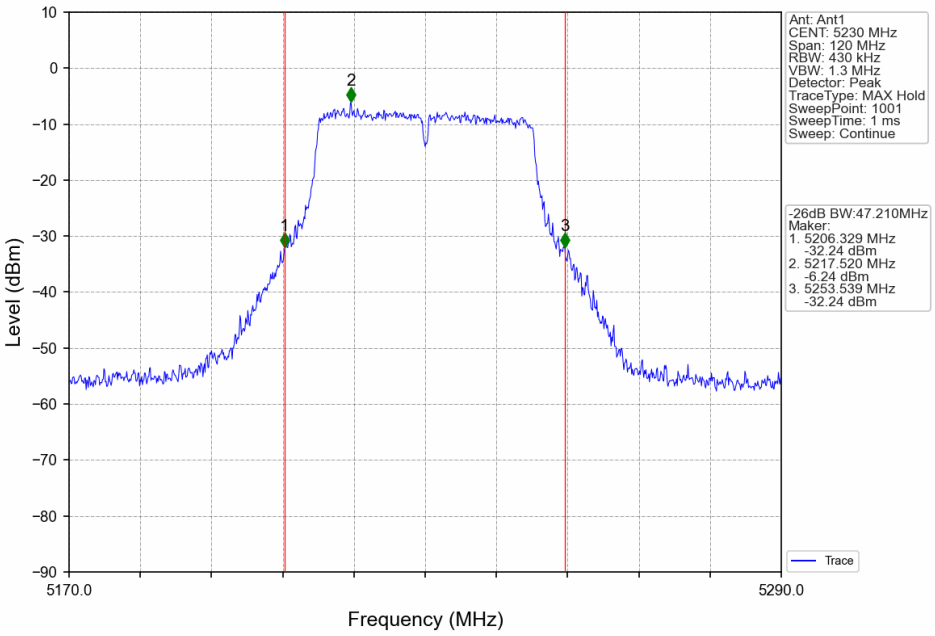
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



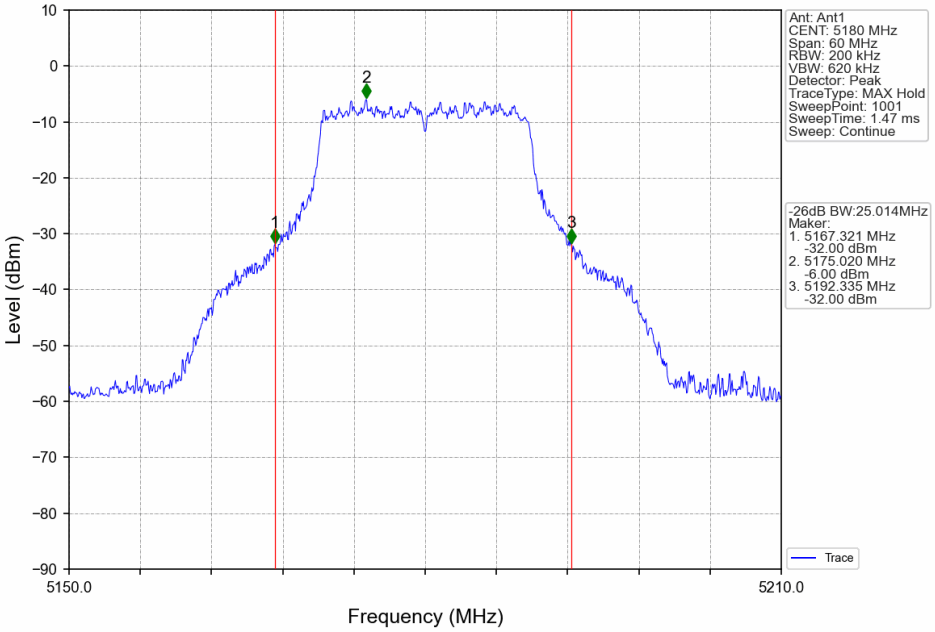
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



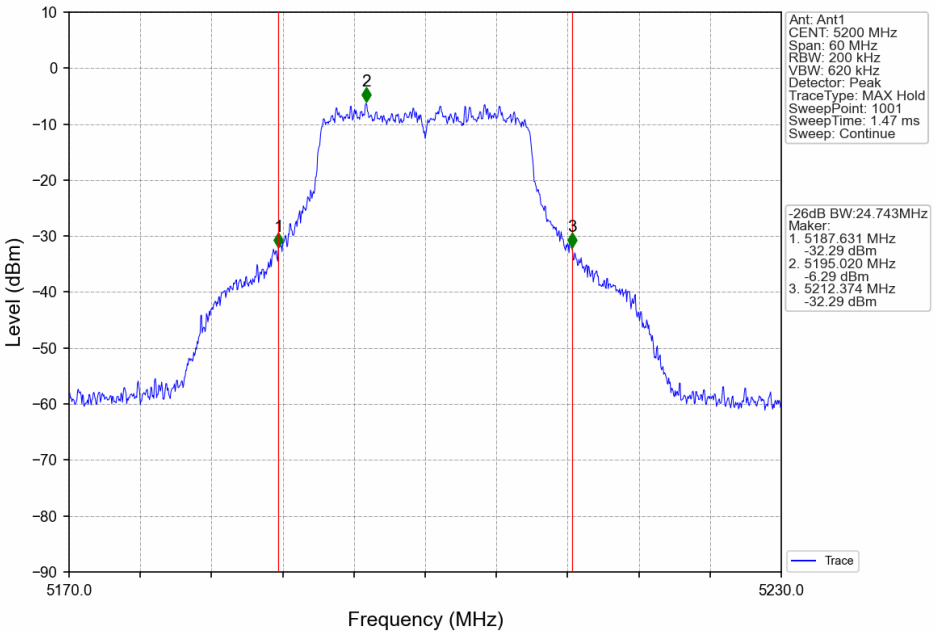
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



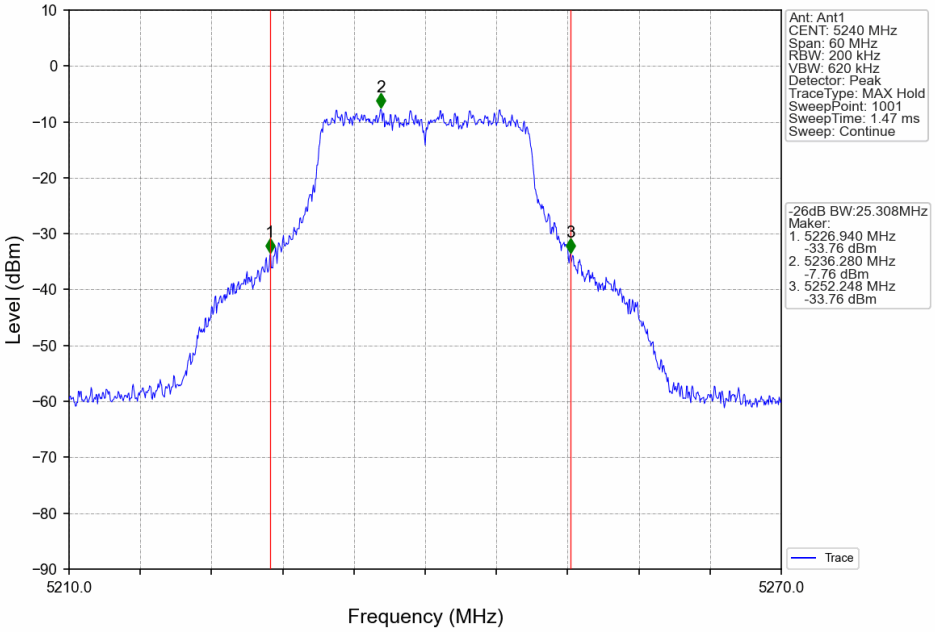
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



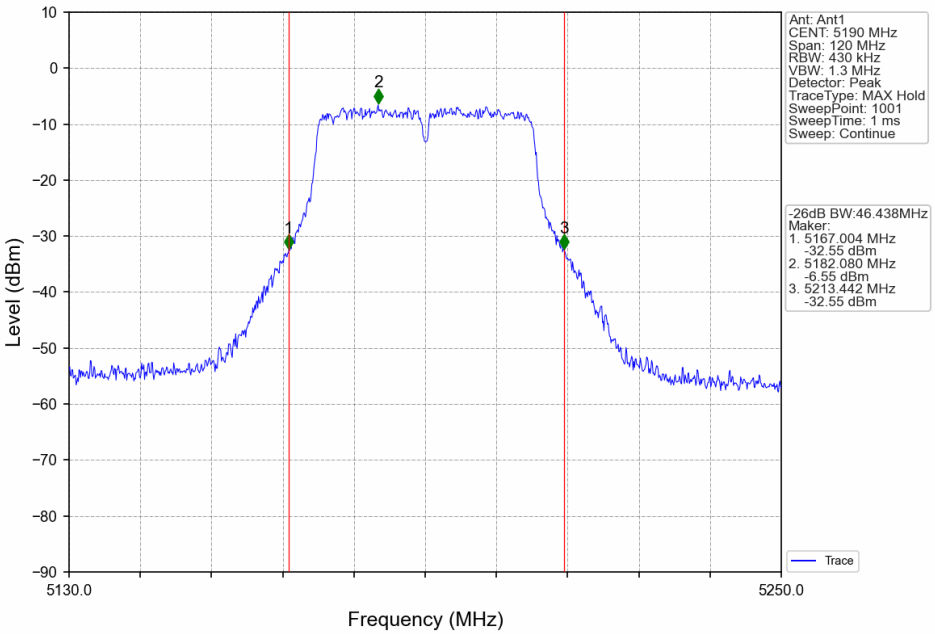
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



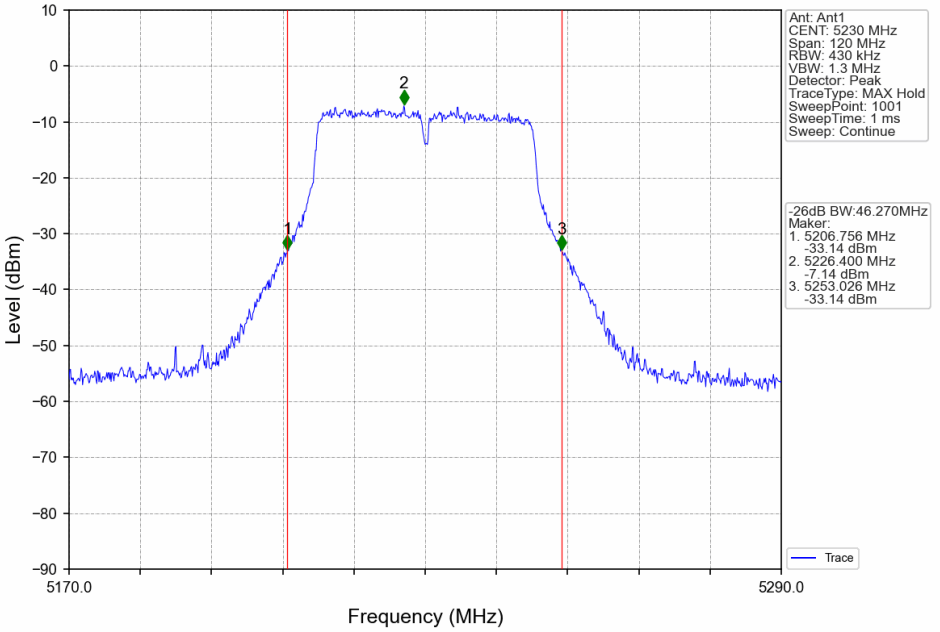
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



2. Maximum Conducted Output Power

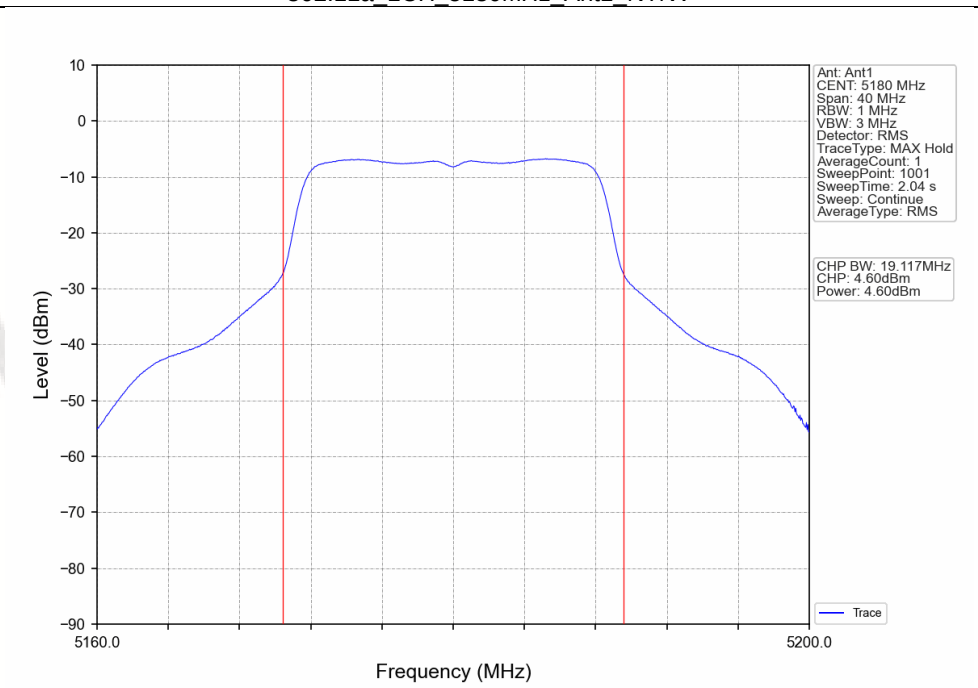
2.1 Power

2.1.1 Test Result

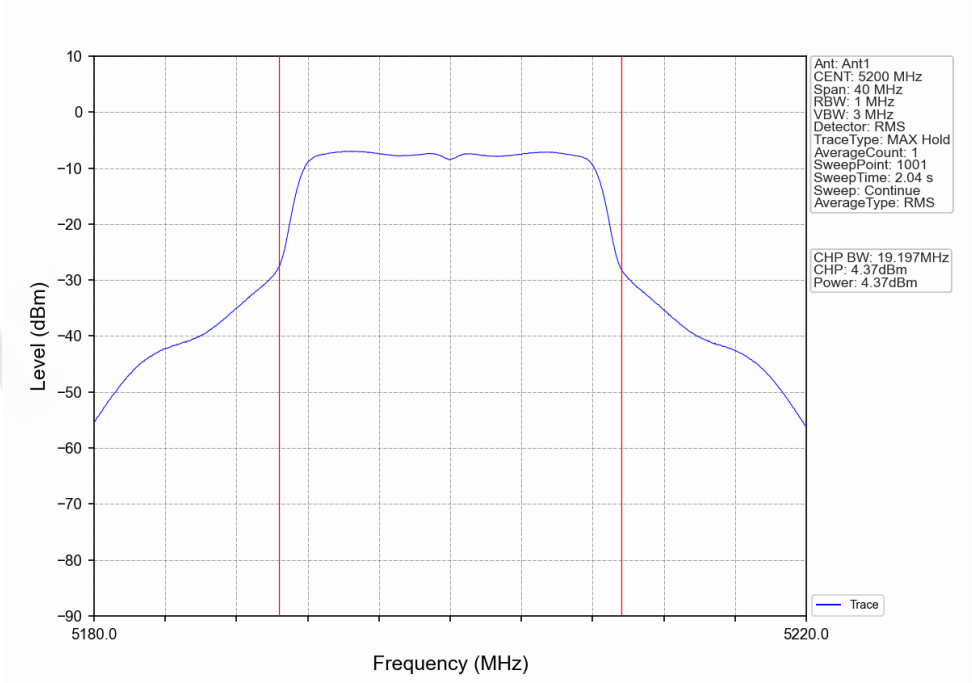
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	4.60	<=23.98	Pass
		5200	4.37	<=23.98	Pass
		5240	3.25	<=23.98	Pass
802.11n (HT20)	SISO	5180	4.30	<=23.98	Pass
		5200	4.19	<=23.98	Pass
		5240	3.07	<=23.98	Pass
802.11n (HT40)	SISO	5190	4.03	<=23.98	Pass
		5230	3.27	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	4.04	<=23.98	Pass
		5200	3.89	<=23.98	Pass
		5240	2.81	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	3.70	<=23.98	Pass
		5230	3.42	<=23.98	Pass
Note1: Antenna Gain: Ant1: 2.99dBi;					

2.1.2 Test Graph

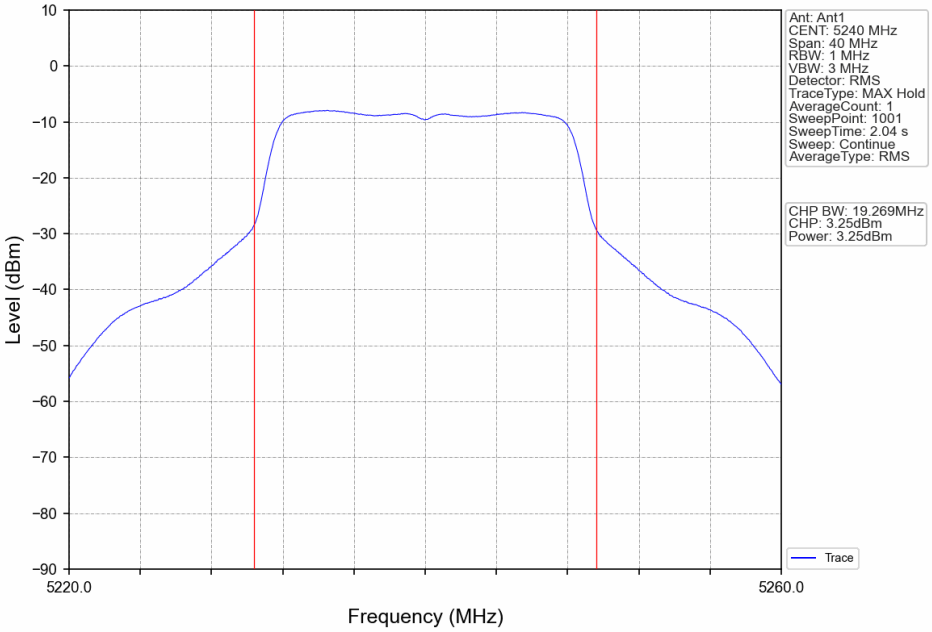
802.11a_LCH_5180MHz_Ant1_NTNV



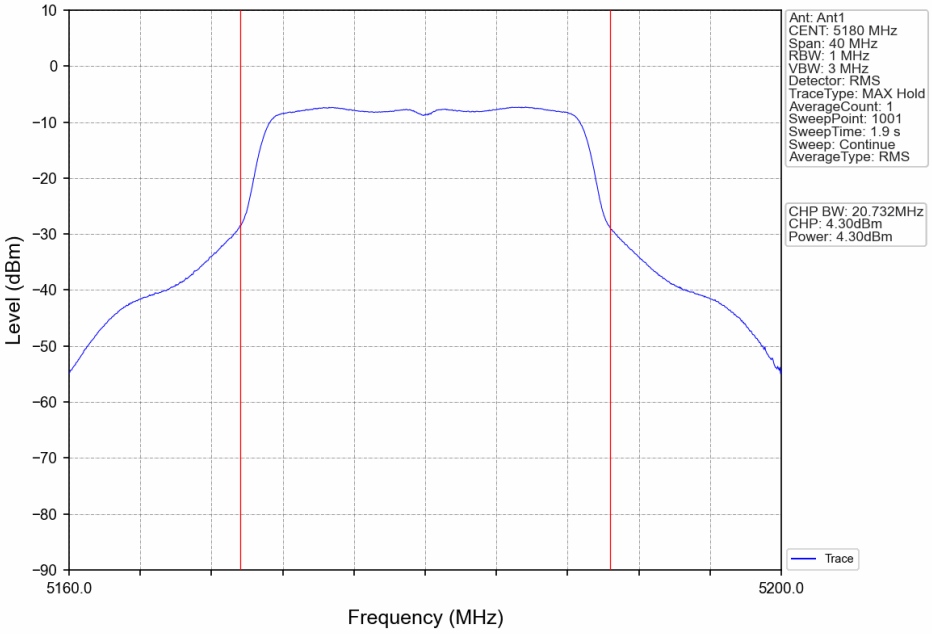
802.11a_MCH_5200MHz_Ant1_NTNV



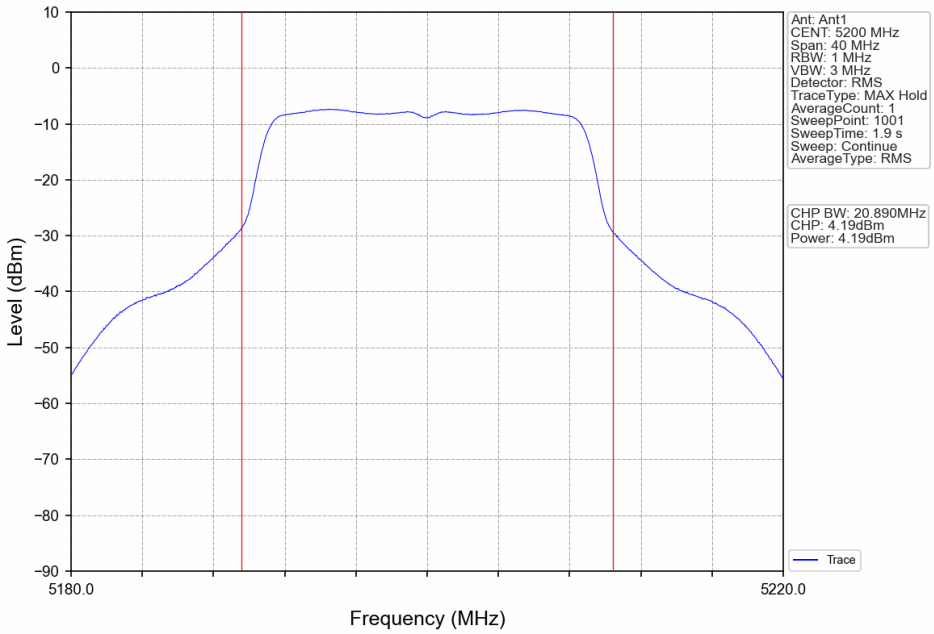
802.11a_HCH_5240MHz_Ant1_NTNV



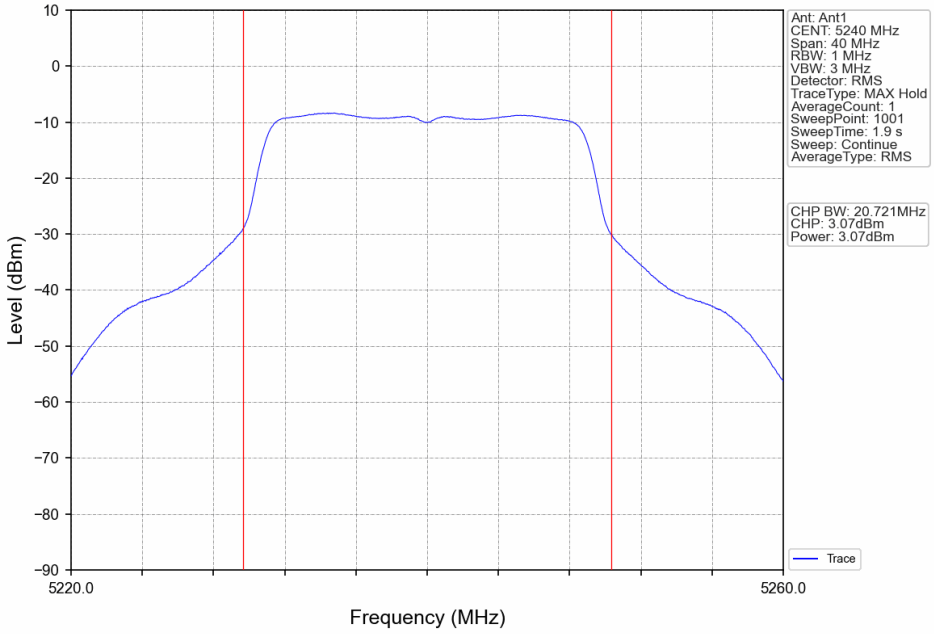
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



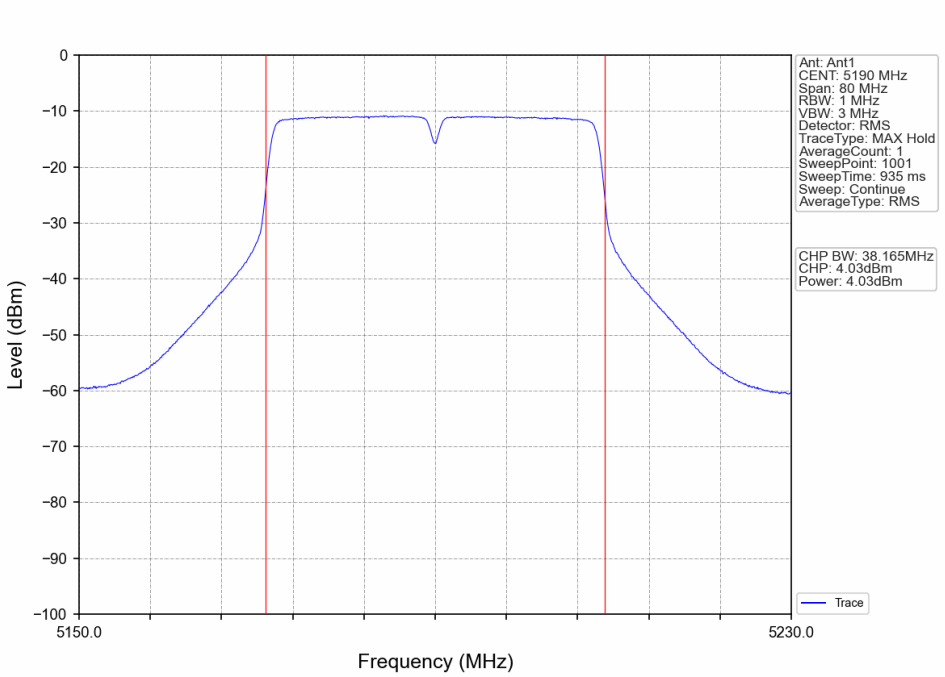
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



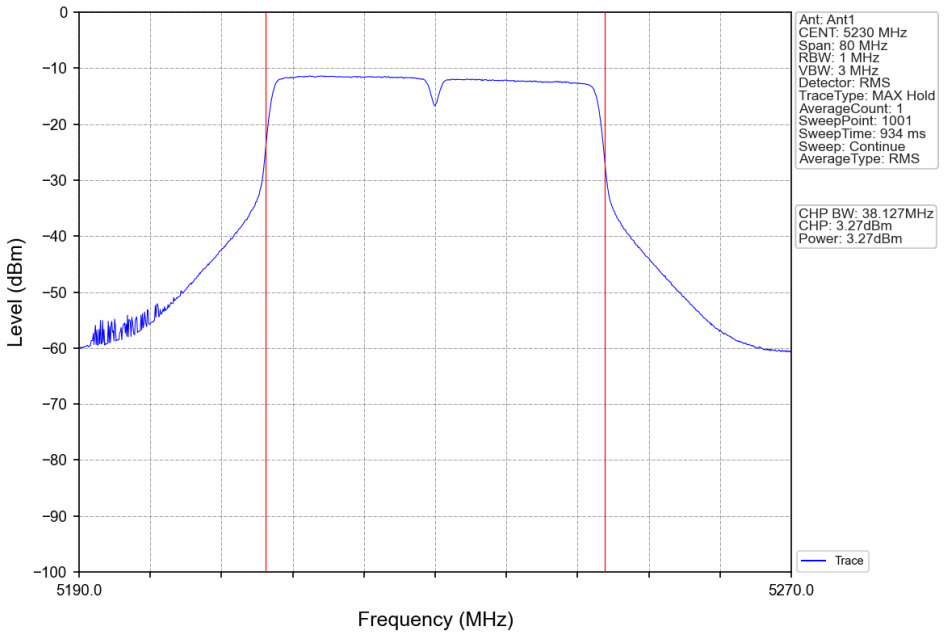
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



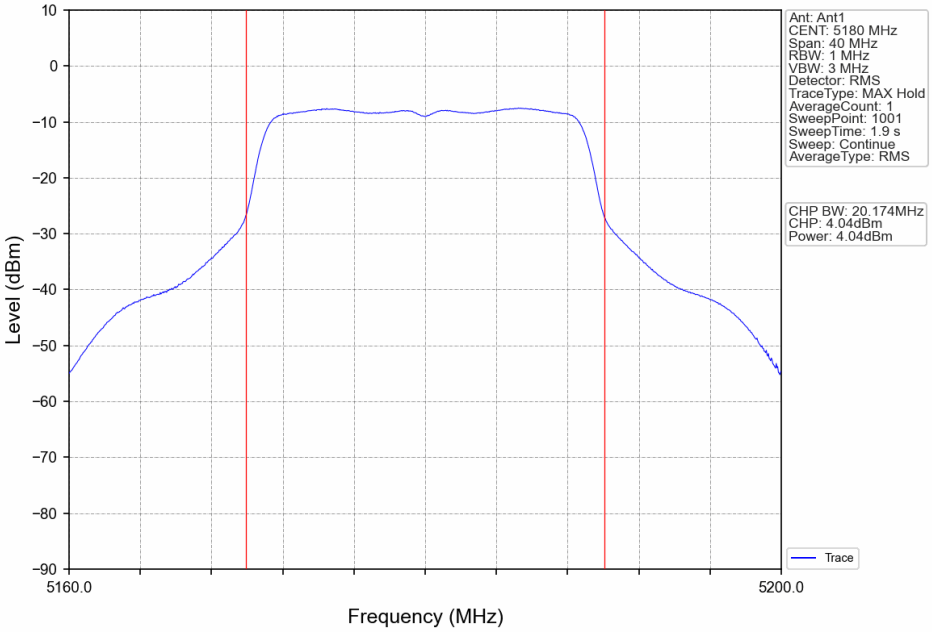
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



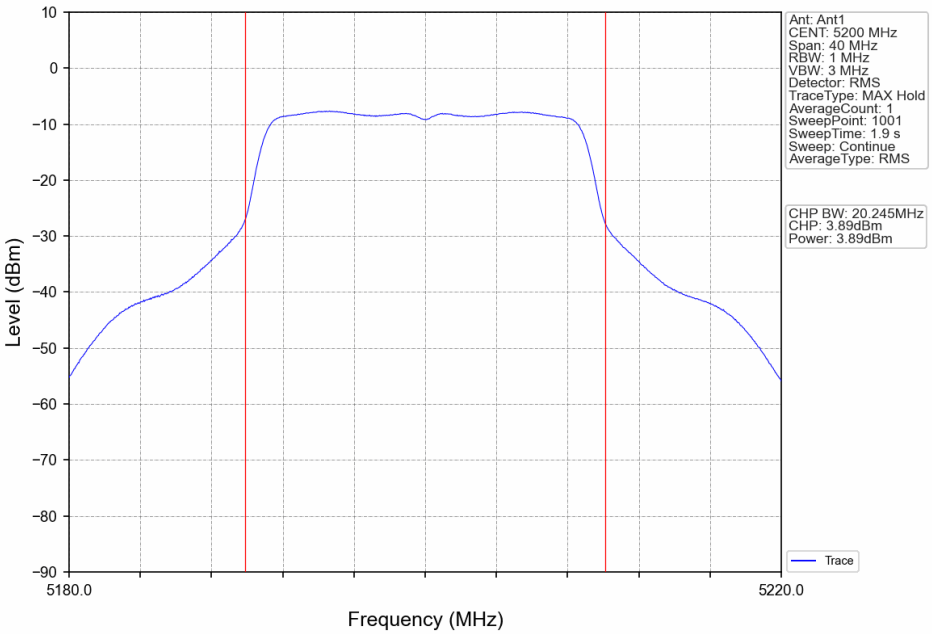
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



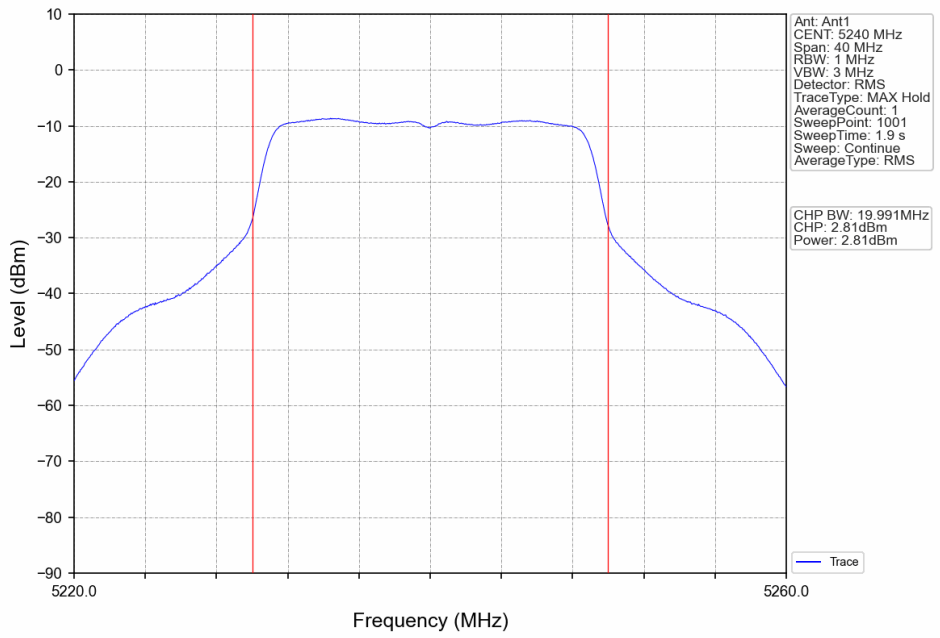
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



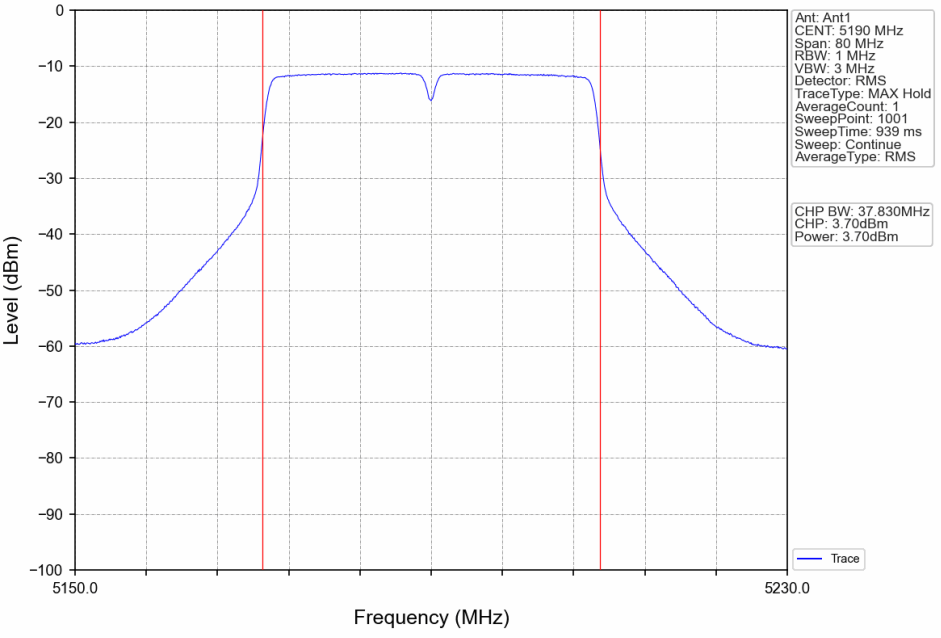
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



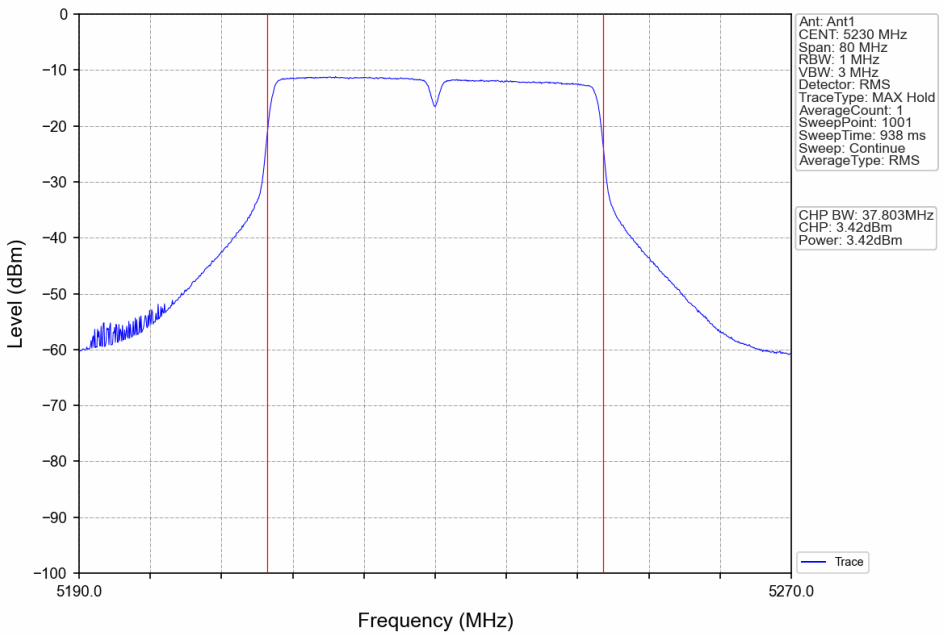
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



3. Maximum Power Spectral Density

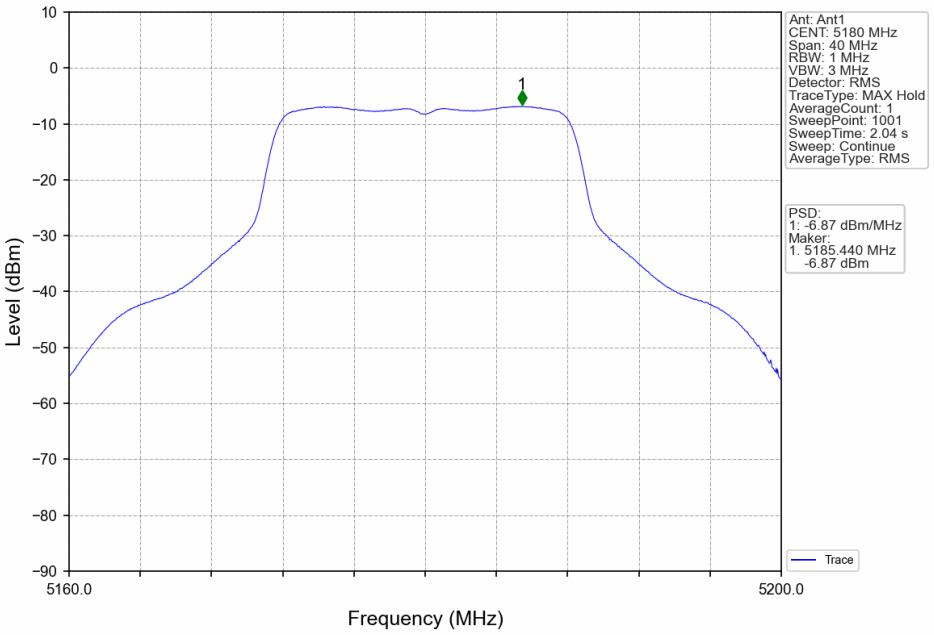
3.1 PSD

3.1.1 Test Result

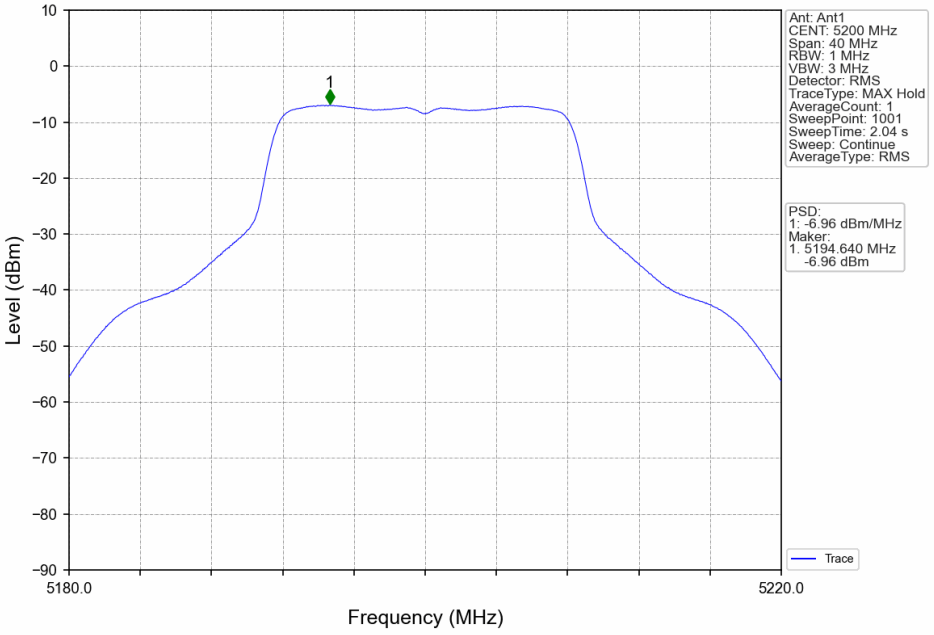
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-6.87	<=11	Pass
		5200	-6.96	<=11	Pass
		5240	-7.97	<=11	Pass
802.11n (HT20)	SISO	5180	-7.33	<=11	Pass
		5200	-7.40	<=11	Pass
		5240	-8.37	<=11	Pass
802.11n (HT40)	SISO	5190	-10.90	<=11	Pass
		5230	-11.41	<=11	Pass
802.11ac (VHT20)	SISO	5180	-7.60	<=11	Pass
		5200	-7.71	<=11	Pass
		5240	-8.63	<=11	Pass
802.11ac (VHT40)	SISO	5190	-11.26	<=11	Pass
		5230	-11.34	<=11	Pass
Note1: Antenna Gain: Ant1: 2.99dBi;					

3.1.2 Test Graph

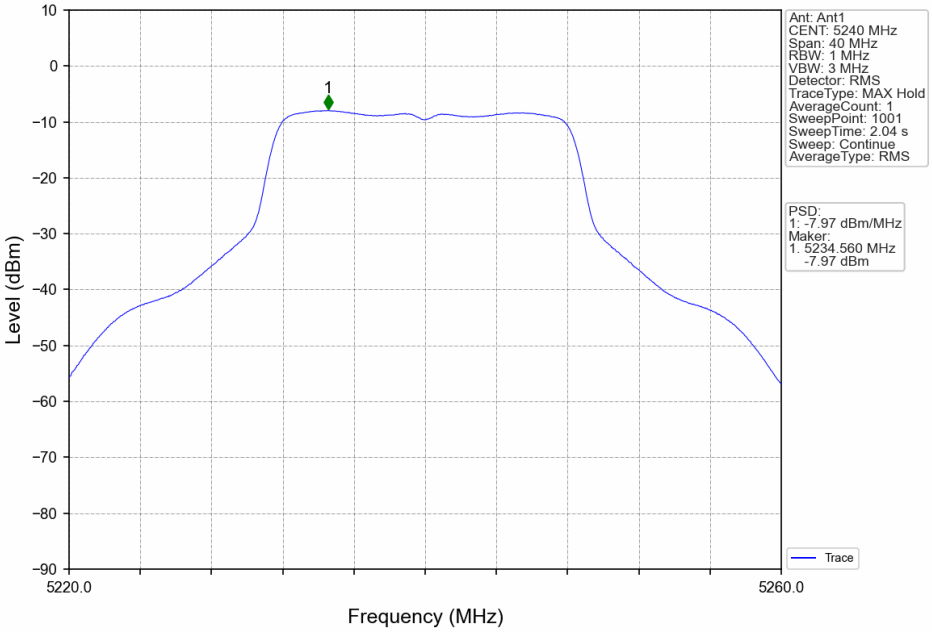
802.11a_LCH_5180MHz_Ant1_NTNV



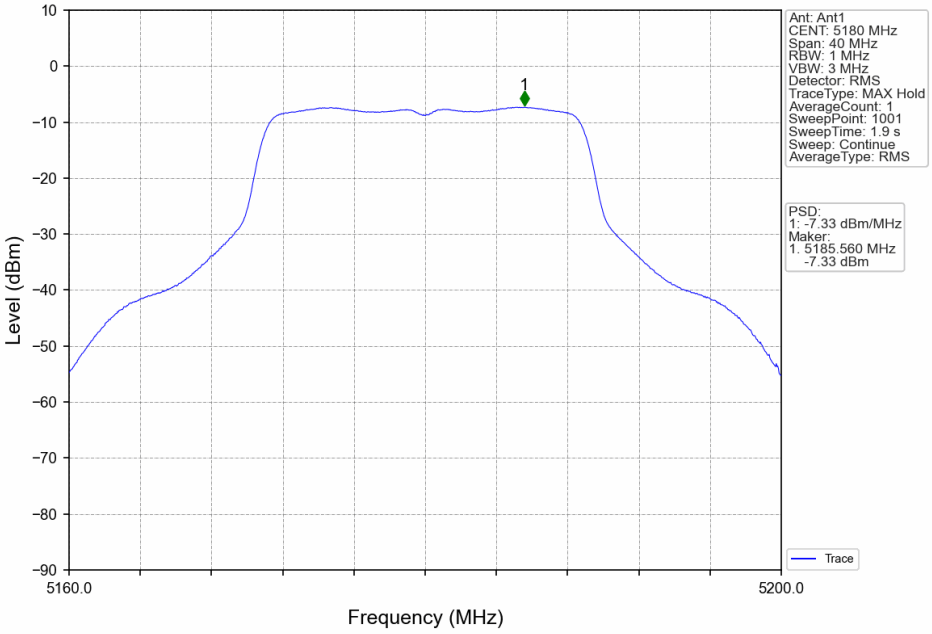
802.11a_MCH_5200MHz_Ant1_NTNV



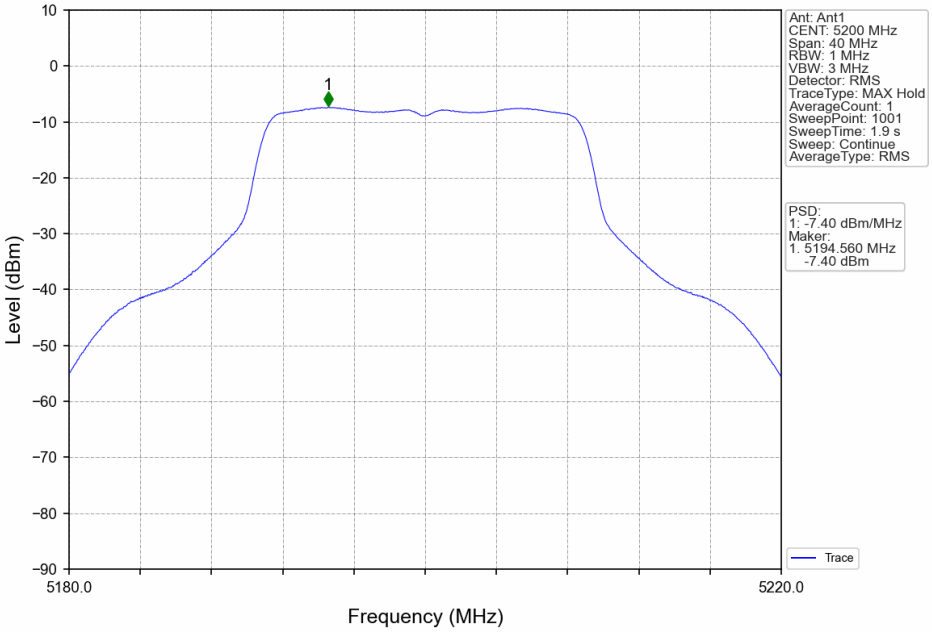
802.11a_HCH_5240MHz_Ant1_NTNV



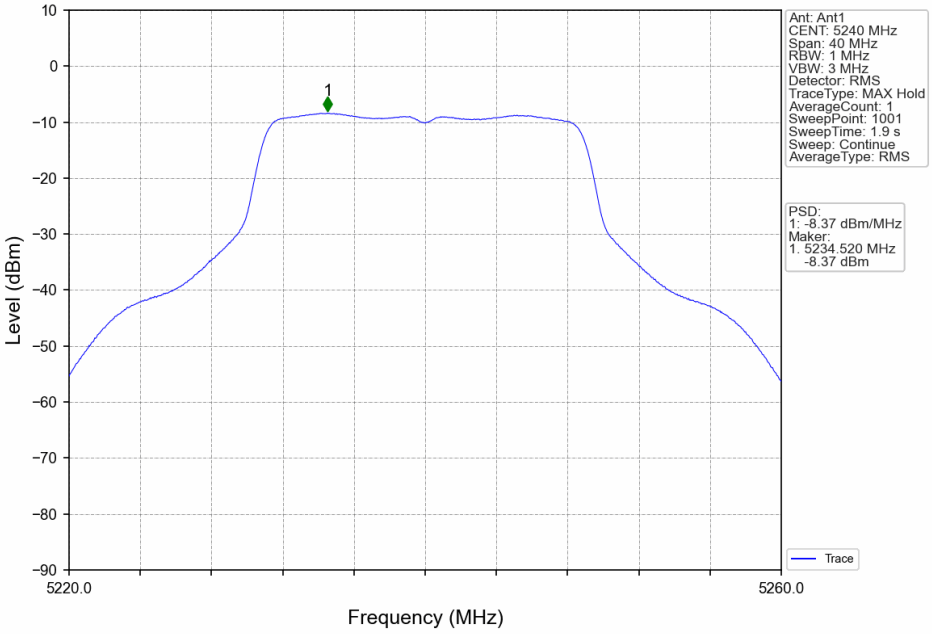
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



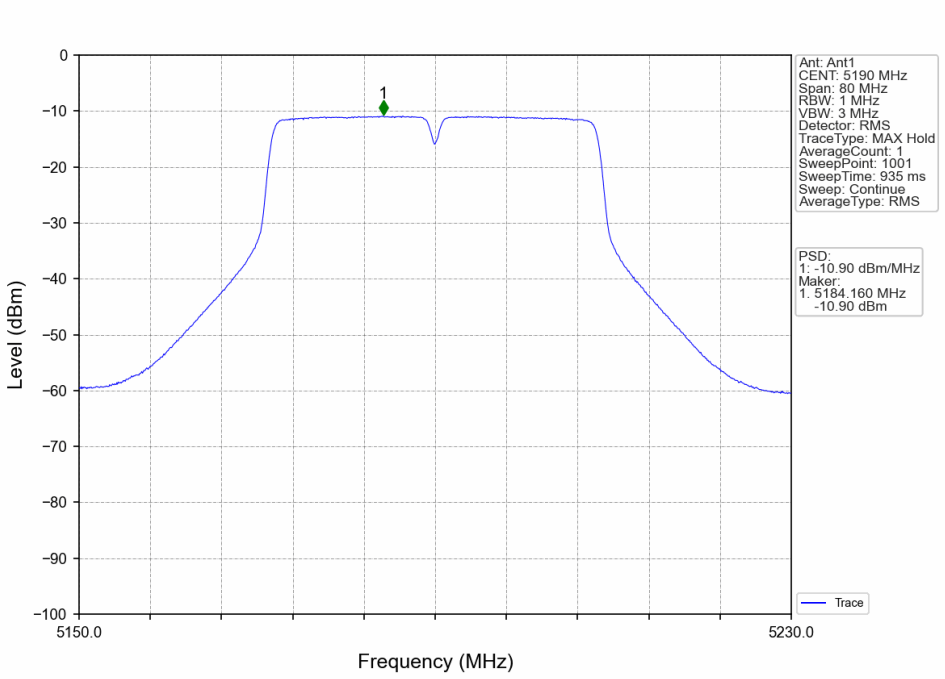
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



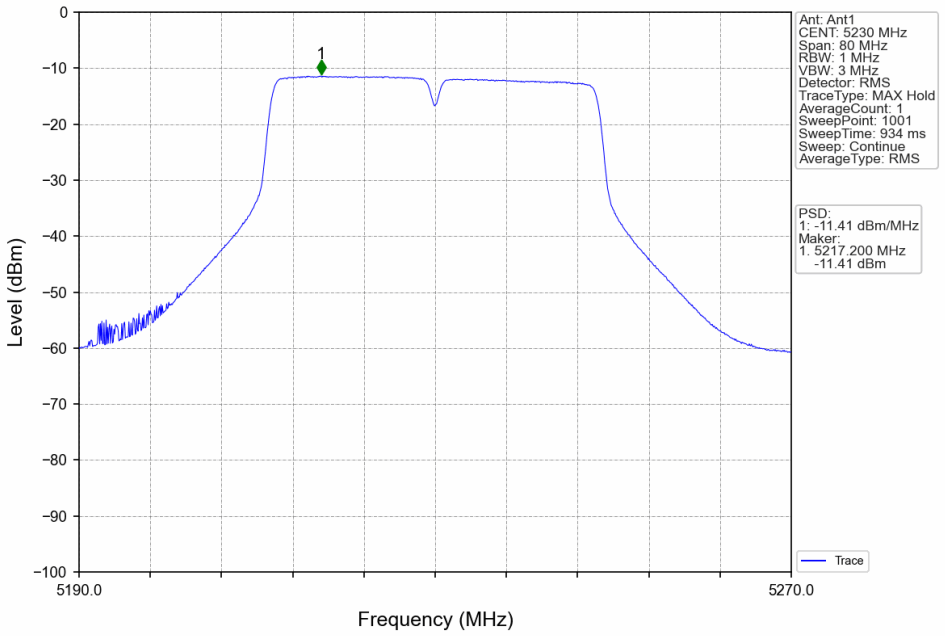
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



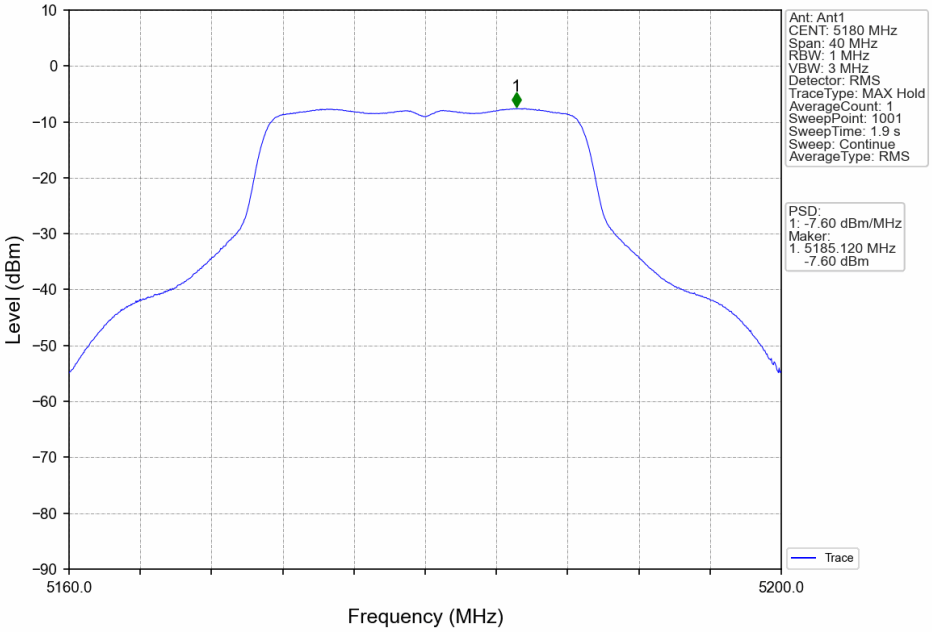
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



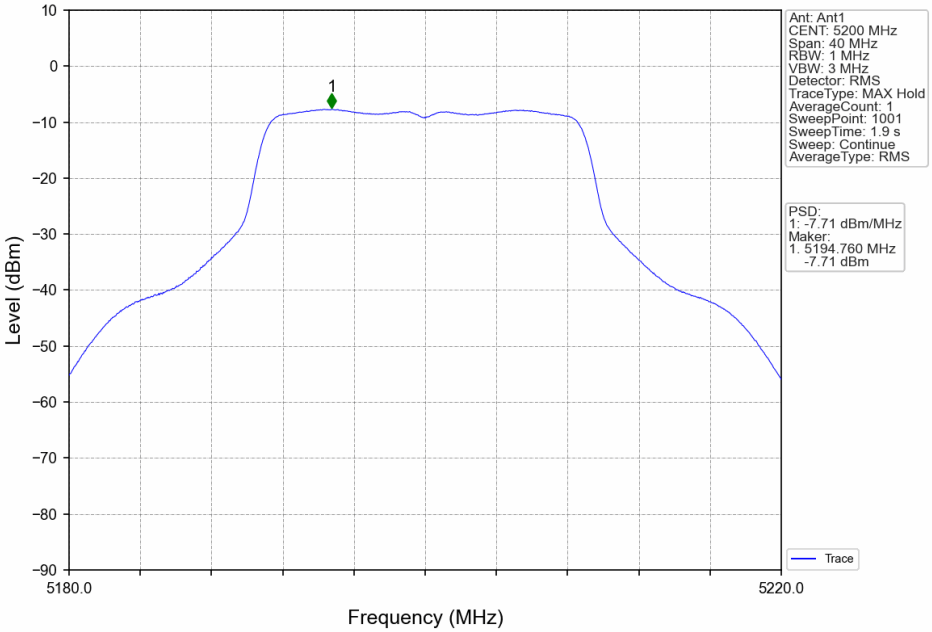
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



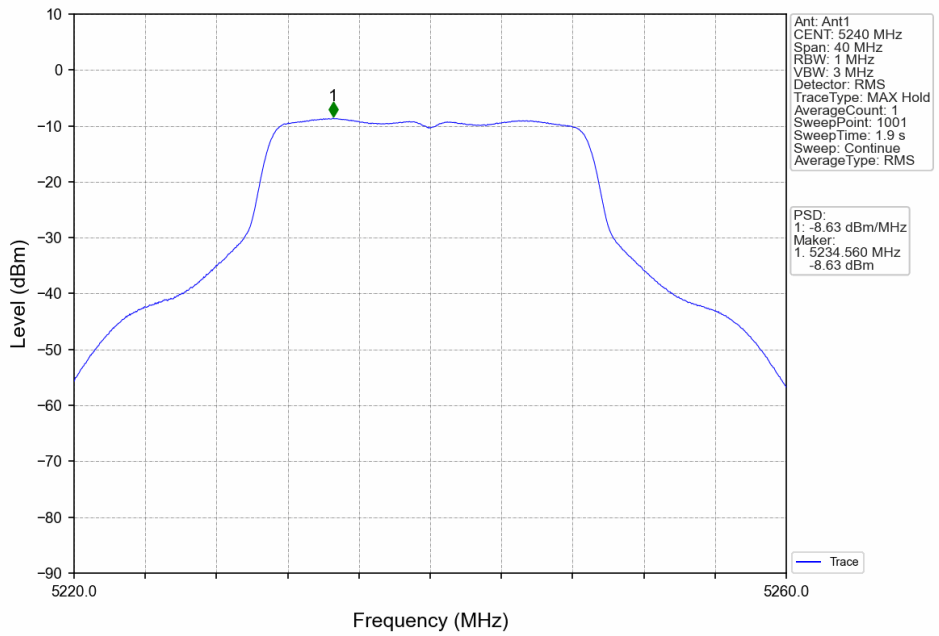
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



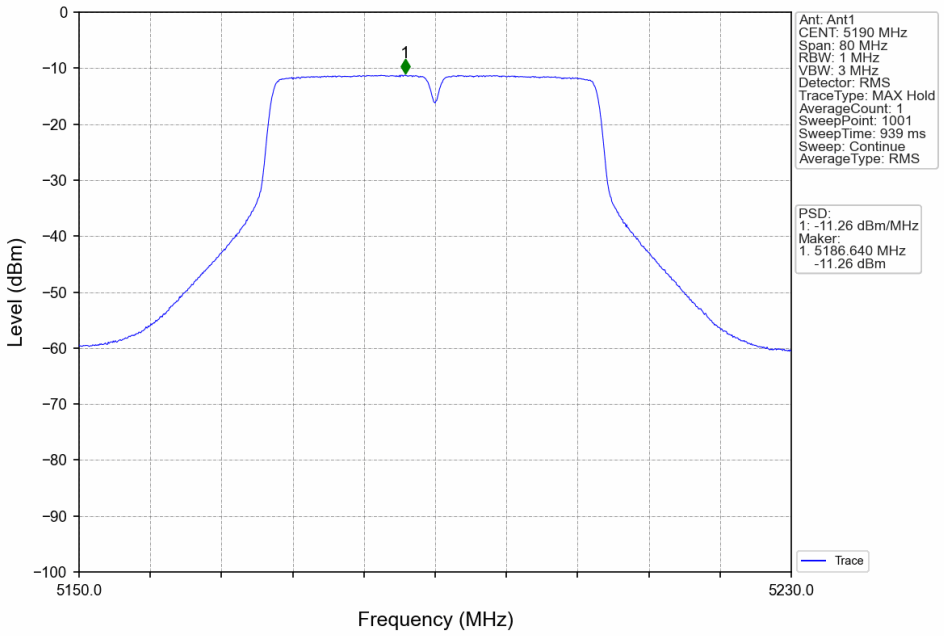
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



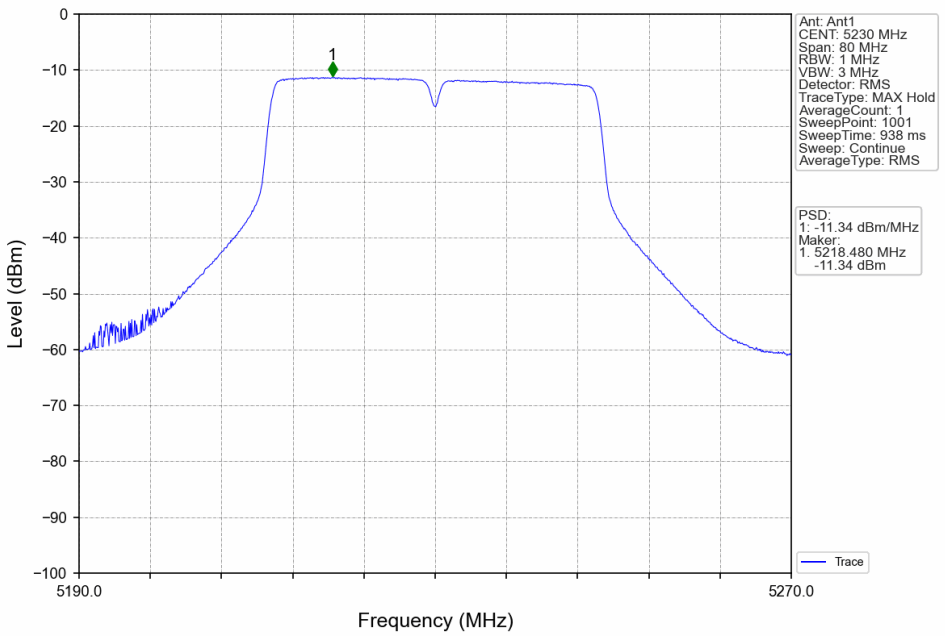
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



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	5179.976	5150 to 5250	Pass
				120	5179.976	5150 to 5250	Pass
				138	5179.976	5150 to 5250	Pass
			-30	120	5179.976	5150 to 5250	Pass
			-20	120	5179.976	5150 to 5250	Pass
			-10	120	5179.976	5150 to 5250	Pass
			0	120	5179.976	5150 to 5250	Pass
			10	120	5179.976	5150 to 5250	Pass
			30	120	5179.976	5150 to 5250	Pass
			40	120	5179.977	5150 to 5250	Pass
			50	120	5179.978	5150 to 5250	Pass
		5200	20	102	5199.976	5150 to 5250	Pass
				120	5199.977	5150 to 5250	Pass
				138	5199.976	5150 to 5250	Pass
			-30	120	5199.976	5150 to 5250	Pass
			-20	120	5199.976	5150 to 5250	Pass
			-10	120	5199.976	5150 to 5250	Pass
			0	120	5199.977	5150 to 5250	Pass
			10	120	5199.977	5150 to 5250	Pass
			30	120	5199.977	5150 to 5250	Pass
			40	120	5199.977	5150 to 5250	Pass
			50	120	5199.977	5150 to 5250	Pass
		5240	20	102	5239.977	5150 to 5250	Pass
				120	5239.976	5150 to 5250	Pass
				138	5239.976	5150 to 5250	Pass
			-30	120	5239.976	5150 to 5250	Pass
			-20	120	5239.976	5150 to 5250	Pass
			-10	120	5239.976	5150 to 5250	Pass
			0	120	5239.977	5150 to 5250	Pass
			10	120	5239.977	5150 to 5250	Pass
			30	120	5239.977	5150 to 5250	Pass
			40	120	5239.977	5150 to 5250	Pass
			50	120	5239.976	5150 to 5250	Pass
		5190	20	102	5189.977	5150 to 5250	Pass
				120	5189.977	5150 to 5250	Pass
				138	5189.977	5150 to 5250	Pass
			-30	120	5189.977	5150 to 5250	Pass
			-20	120	5189.977	5150 to 5250	Pass
			-10	120	5189.977	5150 to 5250	Pass
			0	120	5189.977	5150 to 5250	Pass
			10	120	5189.977	5150 to 5250	Pass
			30	120	5189.976	5150 to 5250	Pass
			40	120	5189.976	5150 to 5250	Pass
			50	120	5189.977	5150 to 5250	Pass
		5230	20	102	5229.976	5150 to 5250	Pass
				120	5229.977	5150 to 5250	Pass
				138	5229.977	5150 to 5250	Pass
			-30	120	5229.976	5150 to 5250	Pass
			-20	120	5229.977	5150 to 5250	Pass

			-10	120	5229.977	5150 to 5250	Pass
			0	120	5229.977	5150 to 5250	Pass
			10	120	5229.977	5150 to 5250	Pass
			30	120	5229.976	5150 to 5250	Pass
			40	120	5229.976	5150 to 5250	Pass
			50	120	5229.976	5150 to 5250	Pass