

1. Duty Cycle

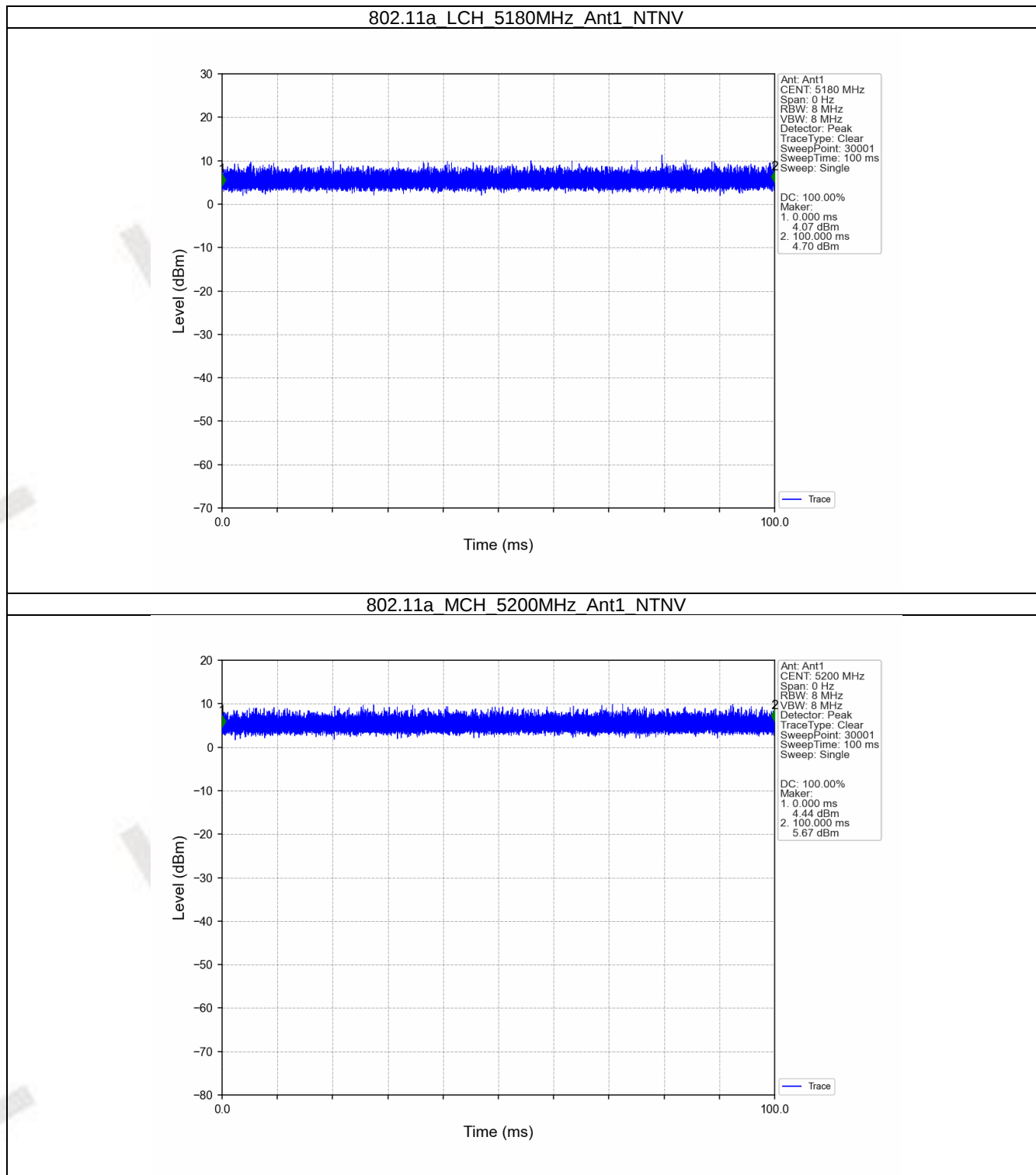
1.1 Test Result

1.1.1 Ant1

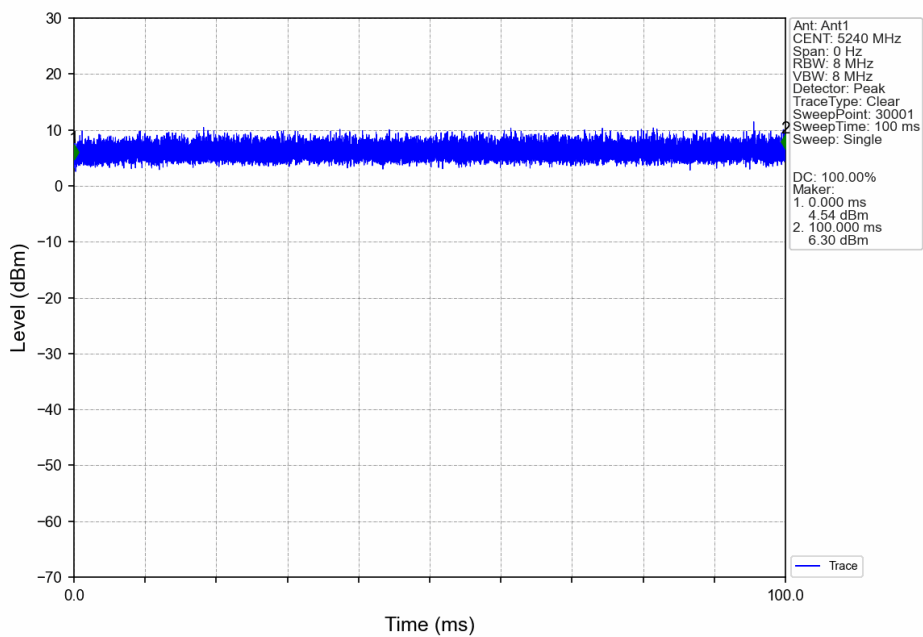
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	5190	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT20)	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT40)	SISO	5190	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT80)	SISO	5210	100.000	100.000	100.00	0.00	0.00

1.2 Test Graph

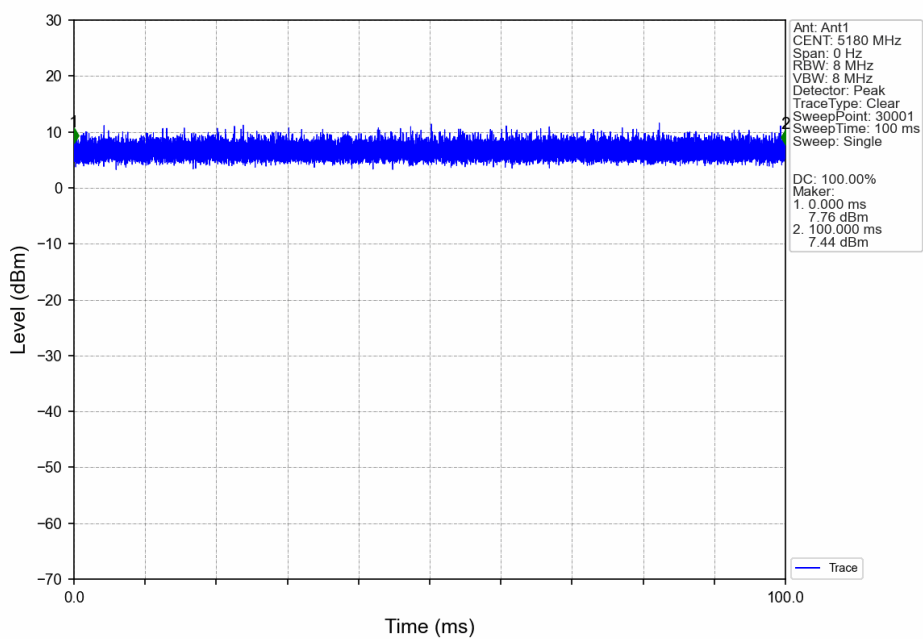
1.2.1 Ant1



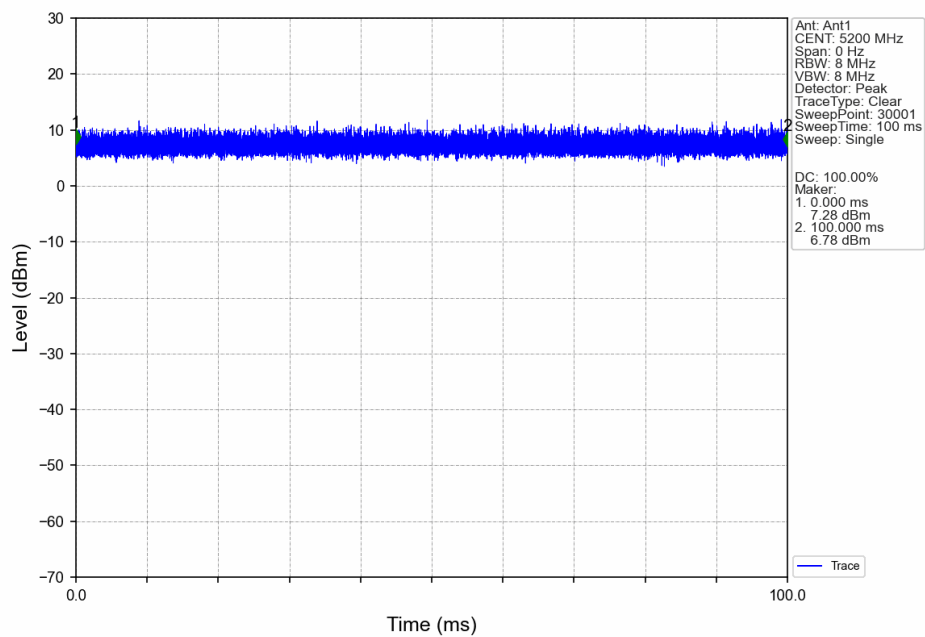
802.11a_HCH_5240MHz_Ant1_NTNV



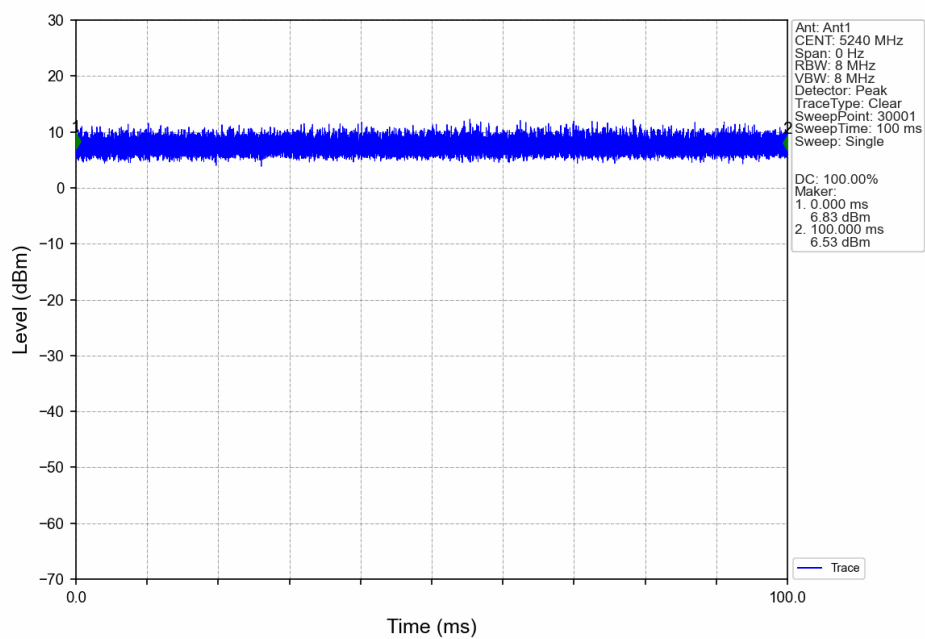
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



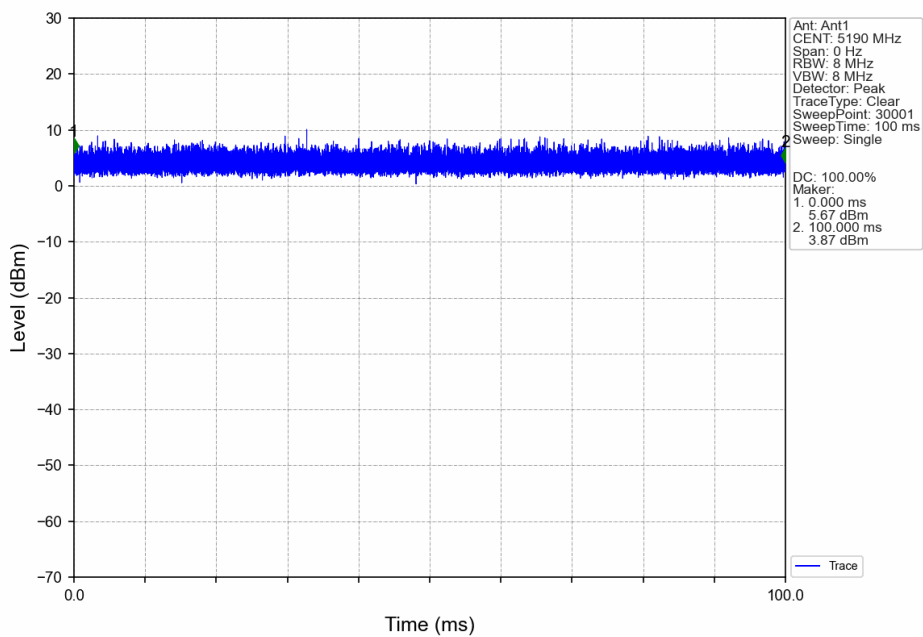
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



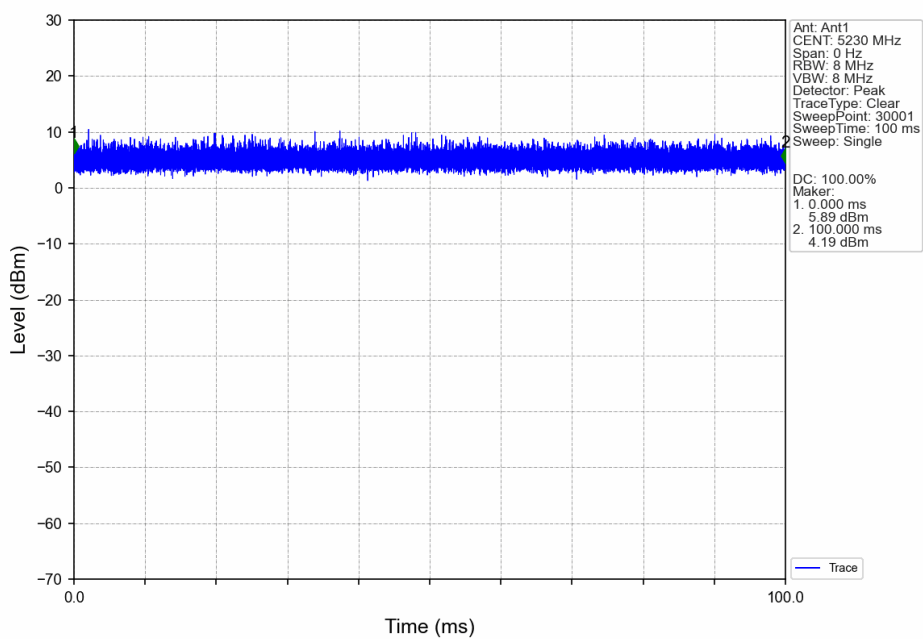
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



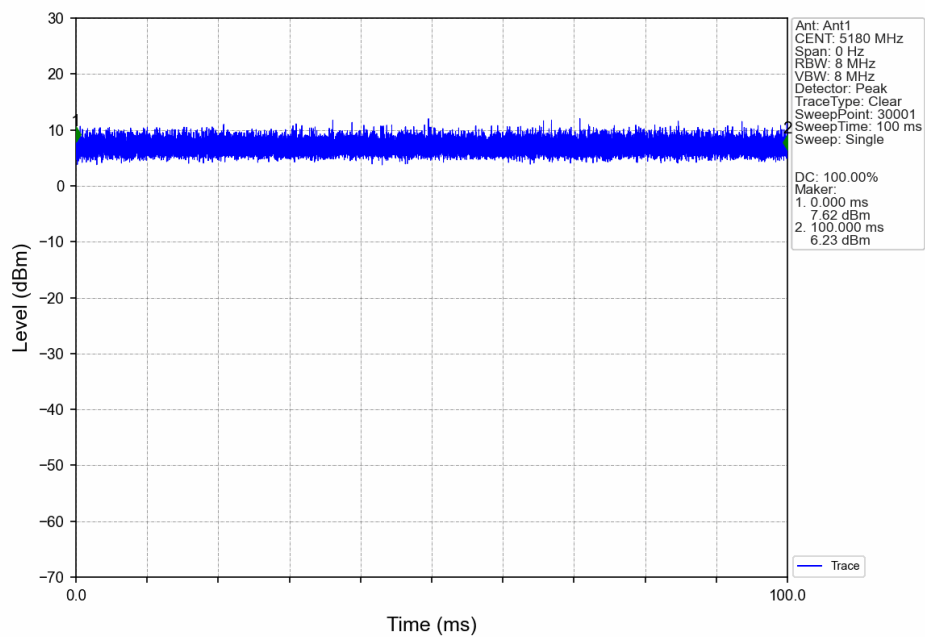
802.11n(HT40) LCH 5190MHz_Ant1_NTNV



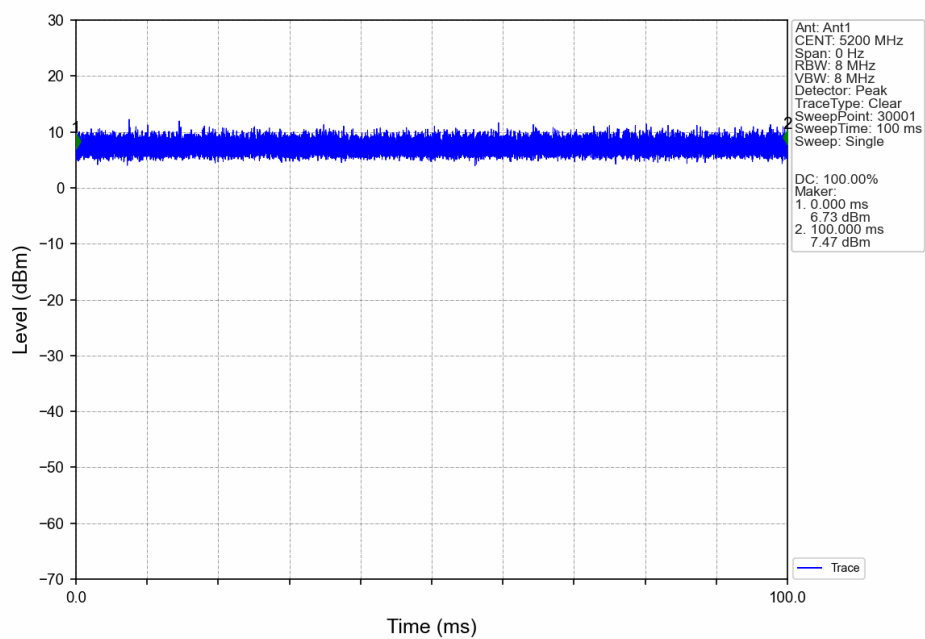
802.11n(HT40) HCH 5230MHz_Ant1_NTNV



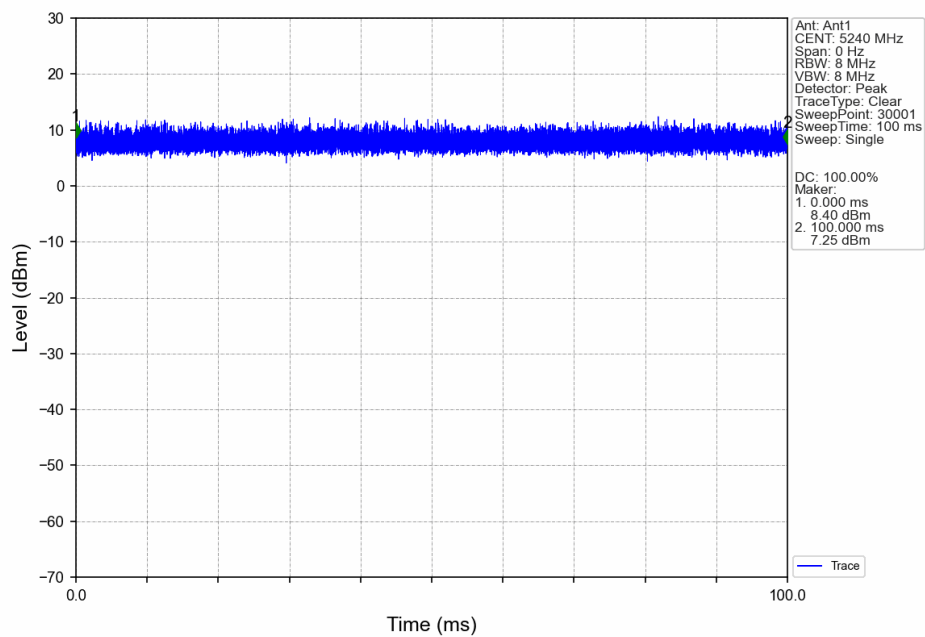
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



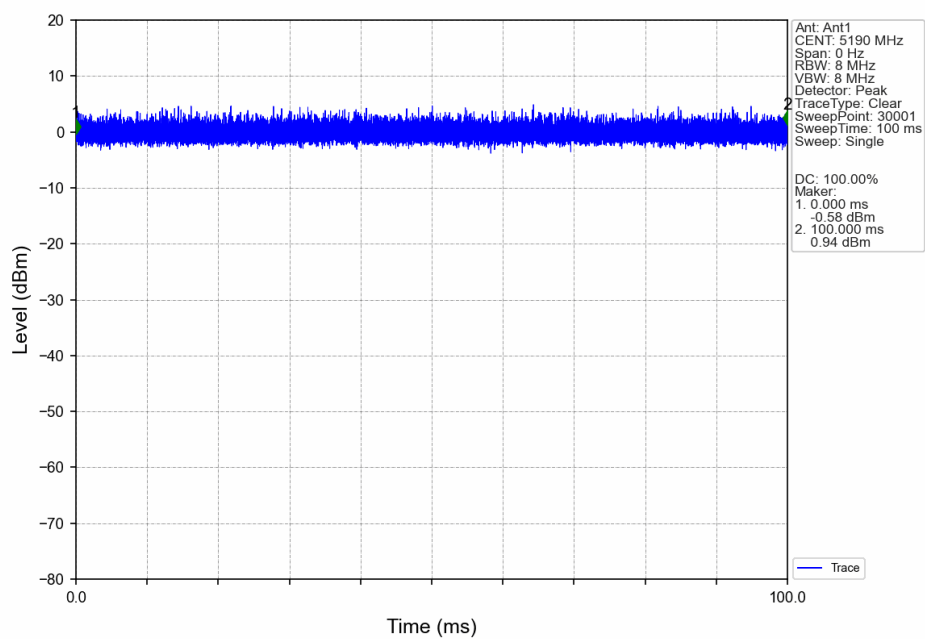
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



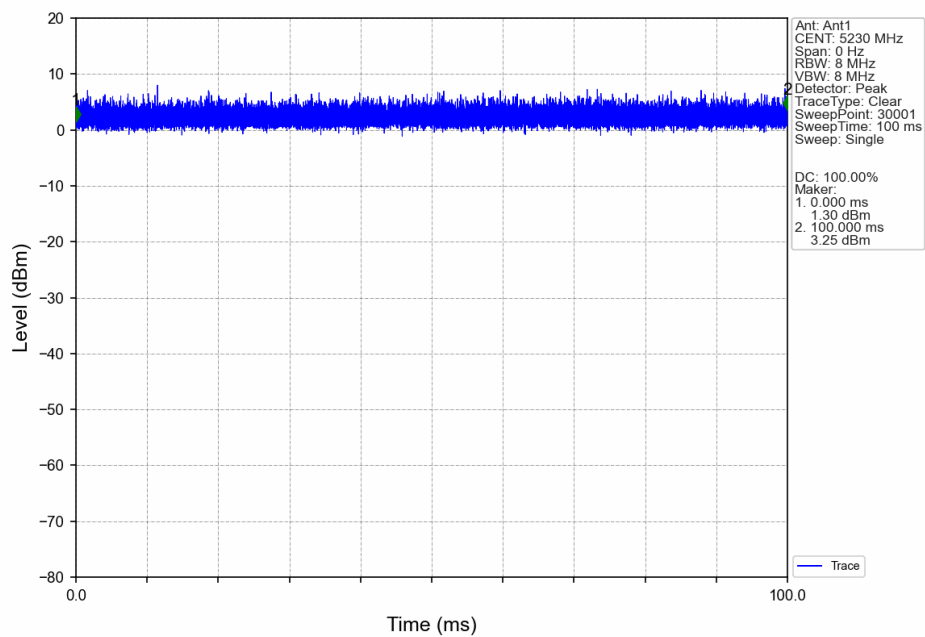
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



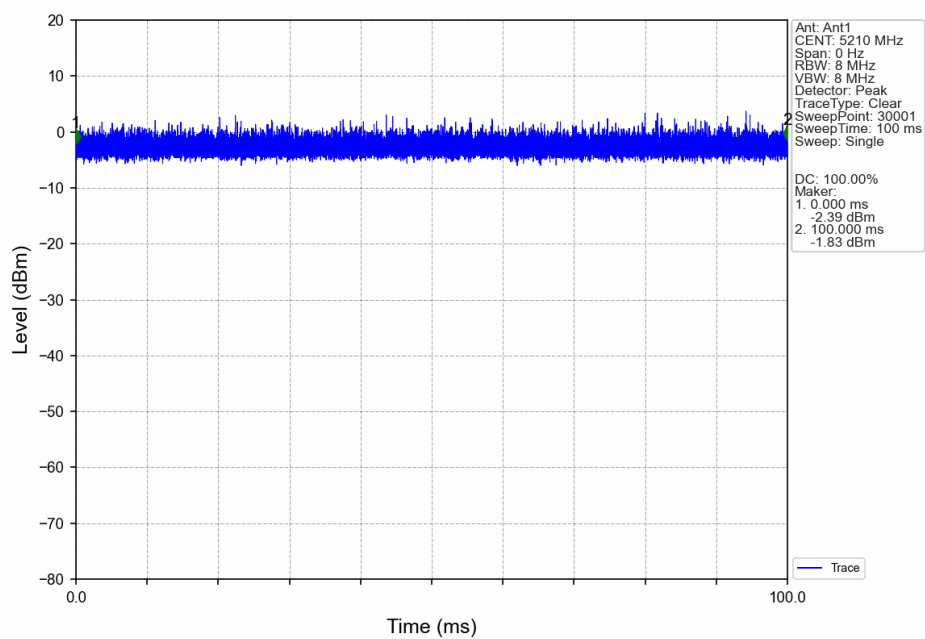
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

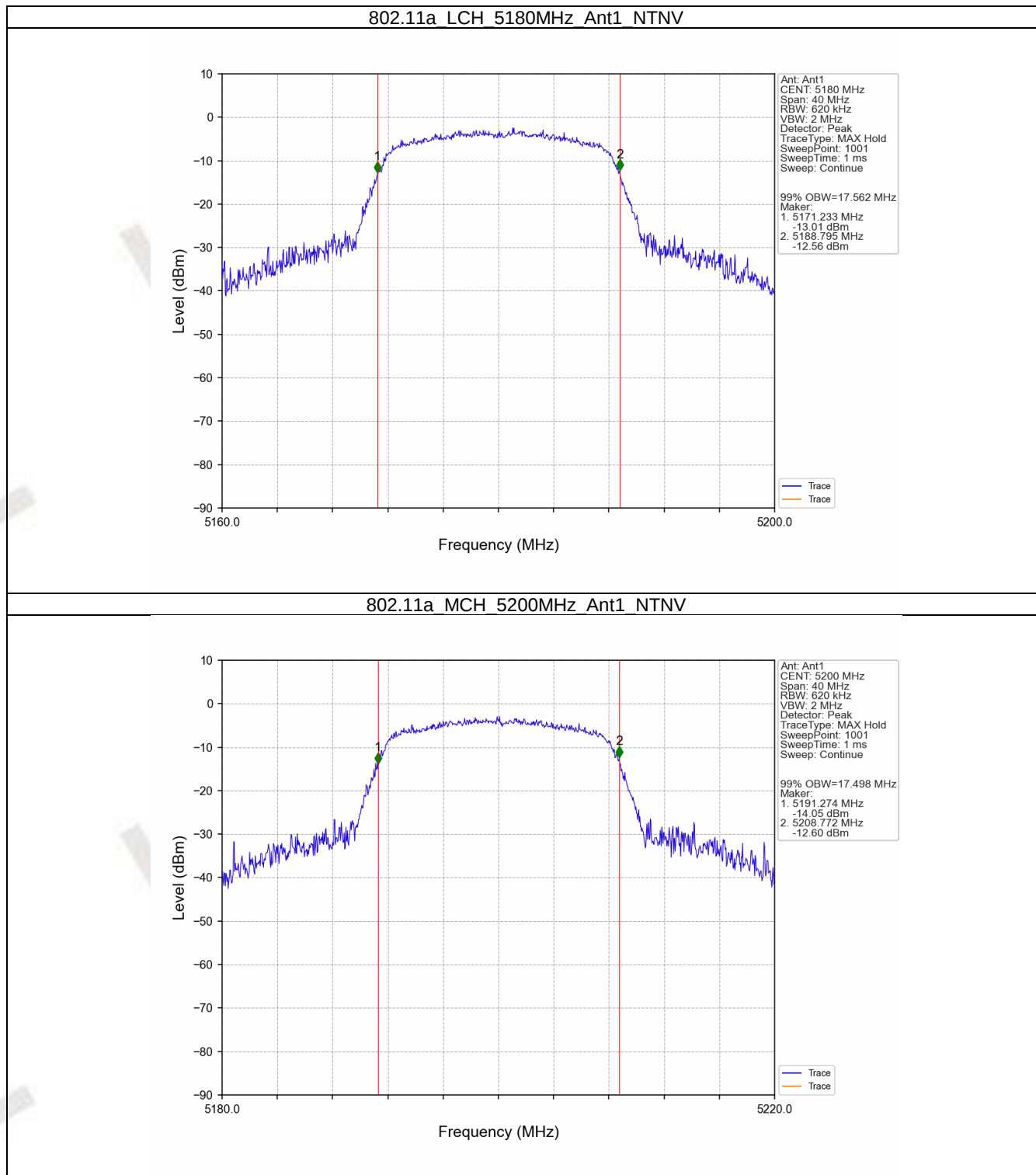
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.562	/	Pass
		5200	1	17.498	/	Pass
		5240	1	17.623	/	Pass
802.11n (HT20)	SISO	5180	1	18.337	/	Pass
		5200	1	18.432	/	Pass
		5240	1	18.370	/	Pass
802.11n (HT40)	SISO	5190	1	36.696	/	Pass
		5230	1	36.798	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.372	/	Pass
		5200	1	18.466	/	Pass
		5240	1	18.374	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.676	/	Pass
		5230	1	36.650	/	Pass
802.11ac (VHT80)	SISO	5210	1	75.808	/	Pass

2.1.2 26dB BW

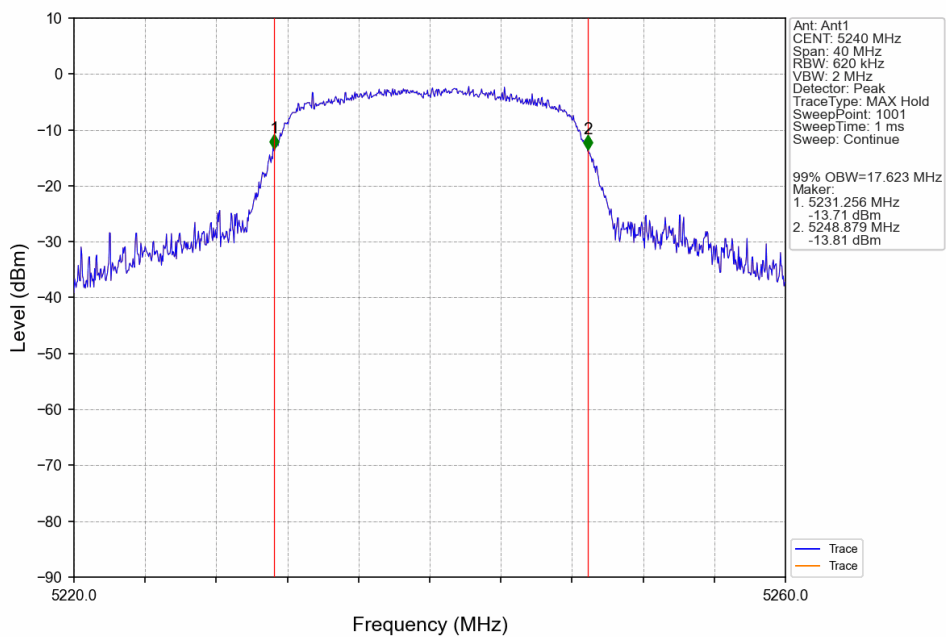
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	20.947	/	Pass
		5200	1	21.010	/	Pass
		5240	1	21.224	/	Pass
802.11n (HT20)	SISO	5180	1	20.571	/	Pass
		5200	1	22.054	/	Pass
		5240	1	20.364	/	Pass
802.11n (HT40)	SISO	5190	1	40.908	/	Pass
		5230	1	40.714	/	Pass
802.11ac (VHT20)	SISO	5180	1	21.687	/	Pass
		5200	1	22.253	/	Pass
		5240	1	20.846	/	Pass
802.11ac (VHT40)	SISO	5190	1	45.279	/	Pass
		5230	1	46.682	/	Pass
802.11ac (VHT80)	SISO	5210	1	87.349	/	Pass

2.2 Test Graph

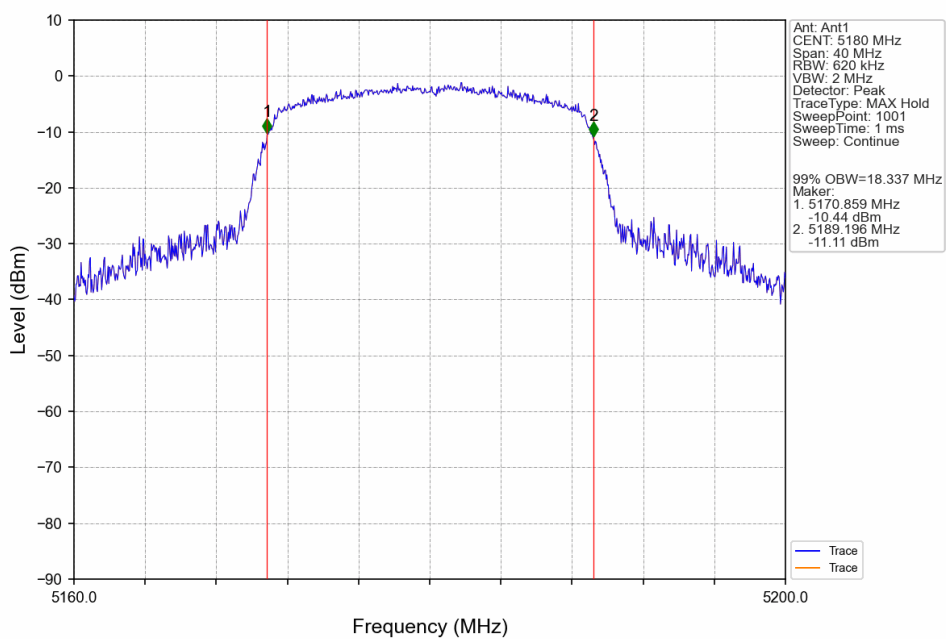
2.2.1 OBW



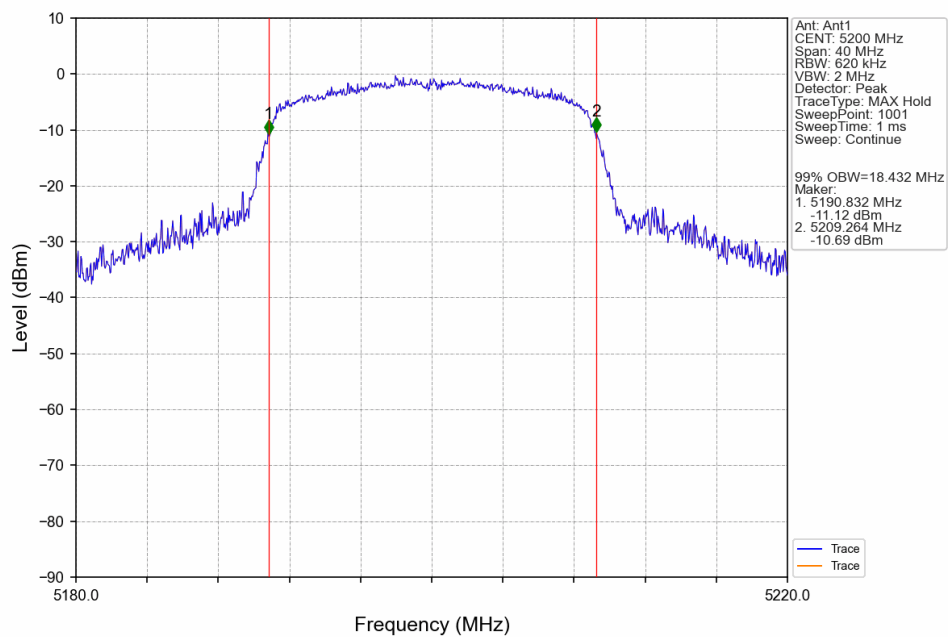
802.11a_HCH_5240MHz_Ant1_NTNV



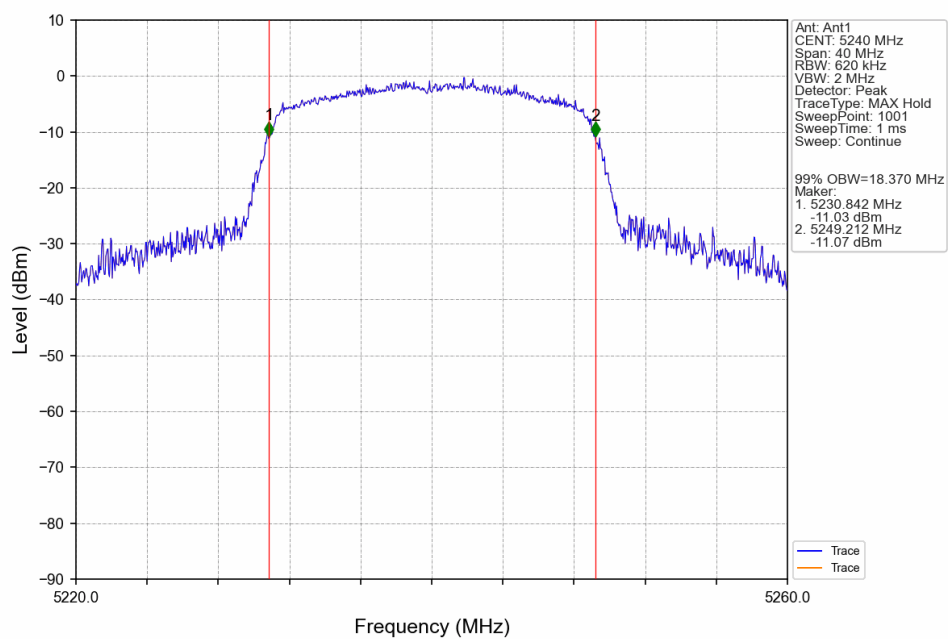
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



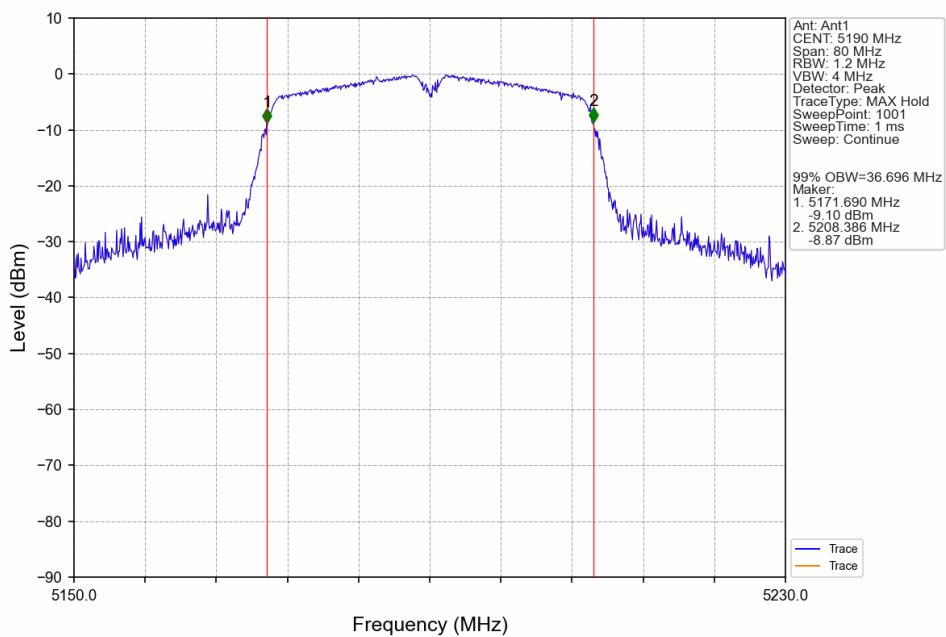
802.11n(HT20) MCH 5200MHz_Ant1_NTNV



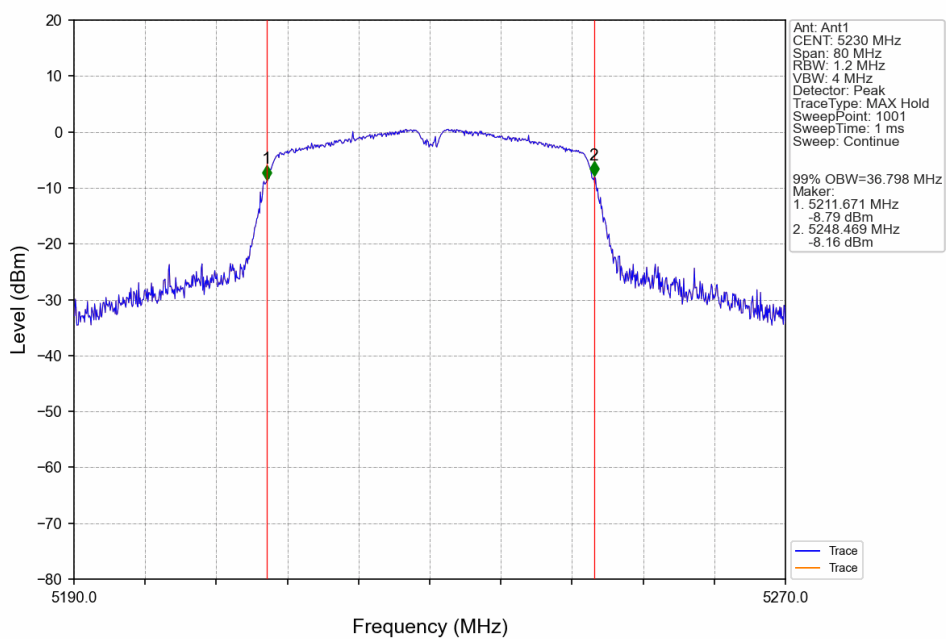
802.11n(HT20) HCH 5240MHz_Ant1_NTNV



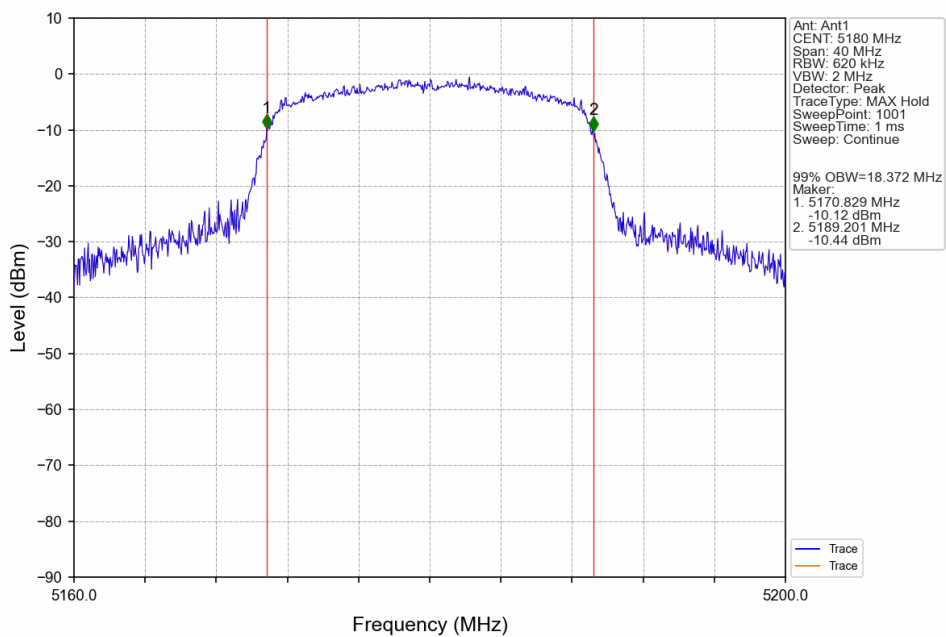
802.11n(HT40) LCH 5190MHz Ant1 NTN



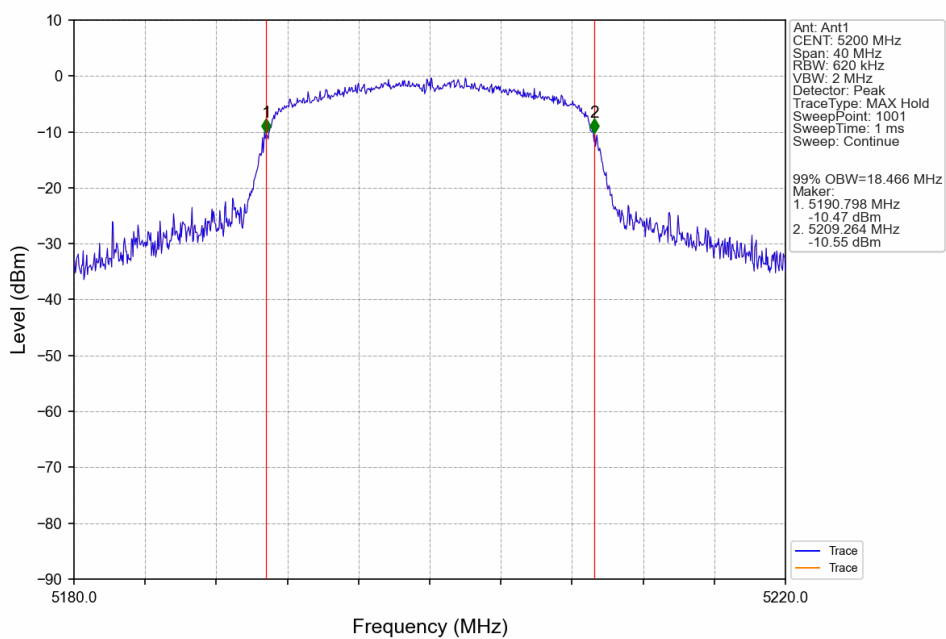
802.11n(HT40) HCH 5230MHz Ant1 NTN



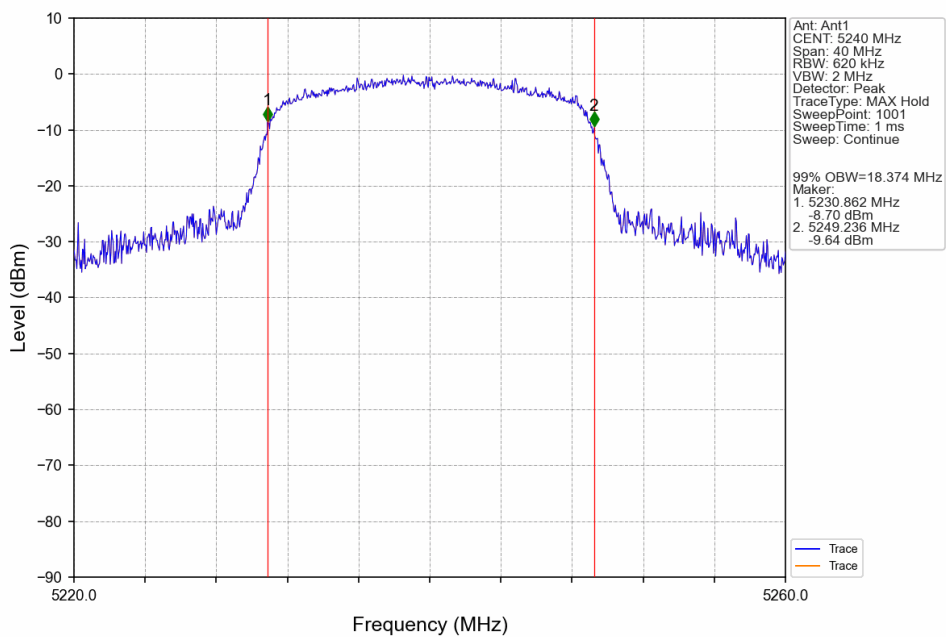
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



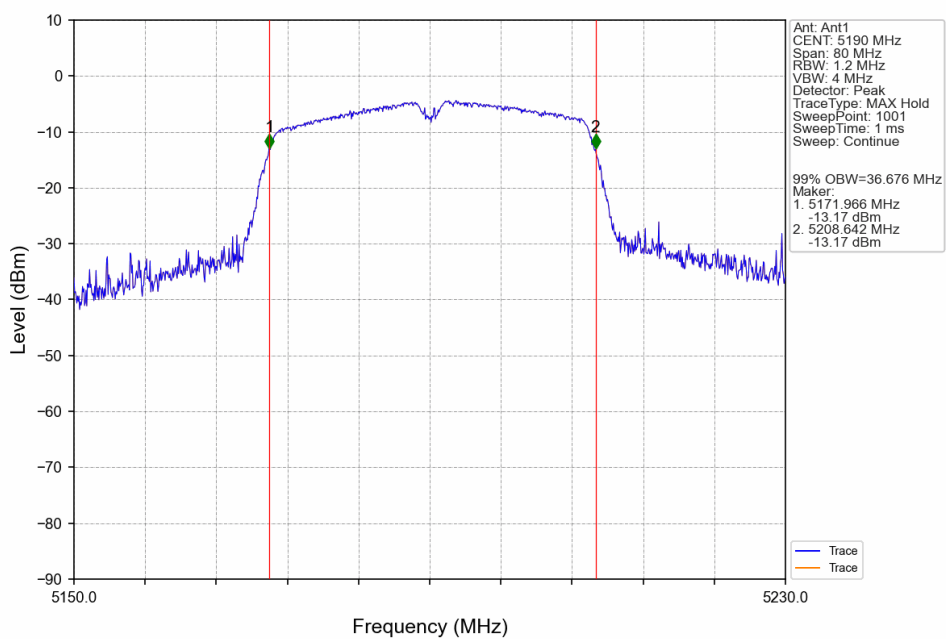
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



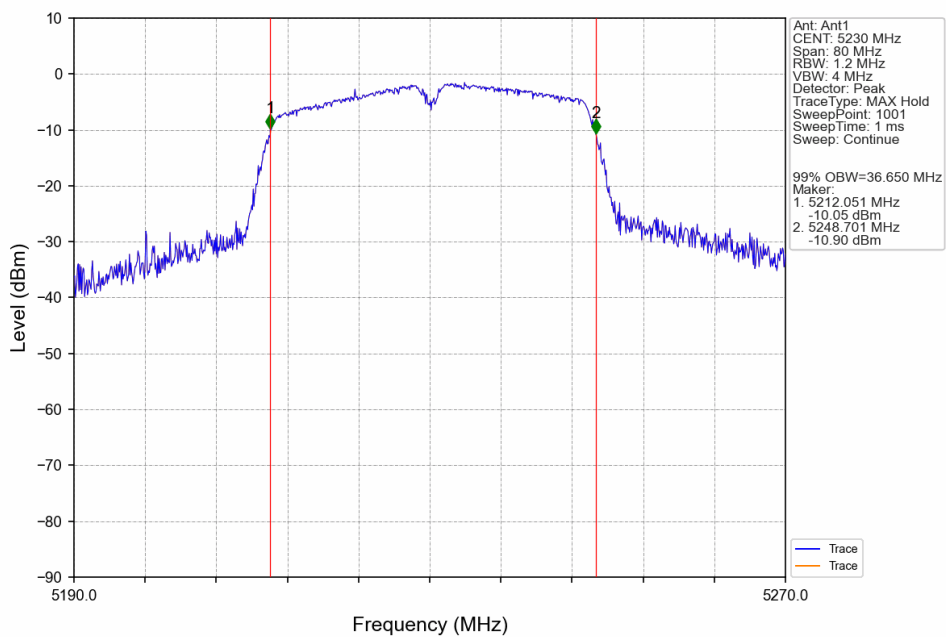
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



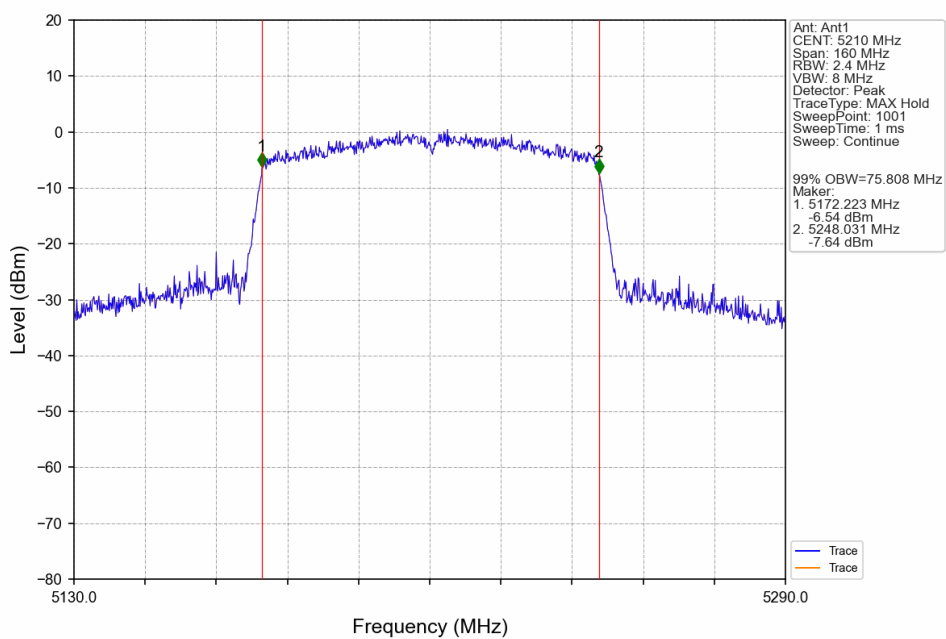
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



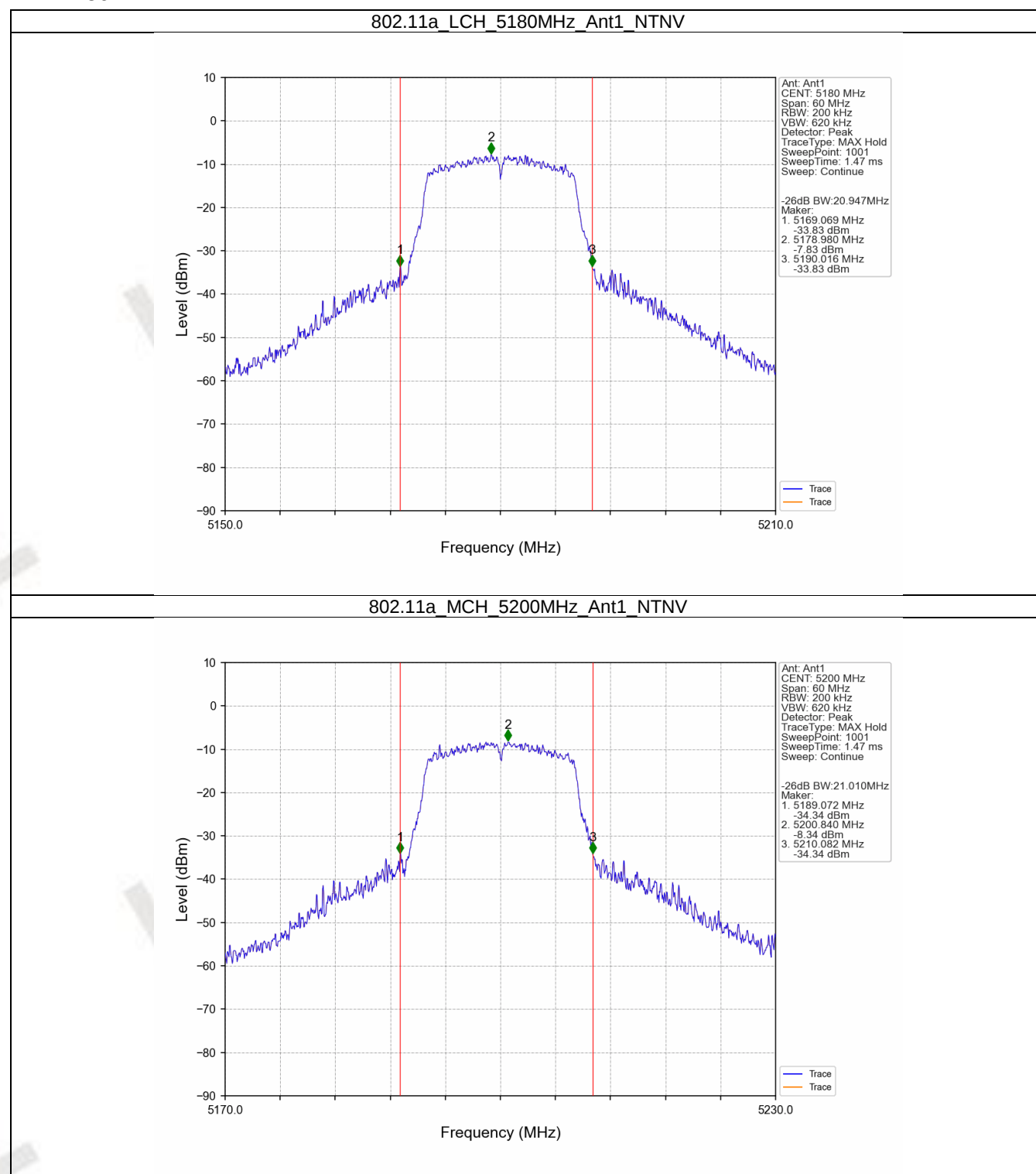
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



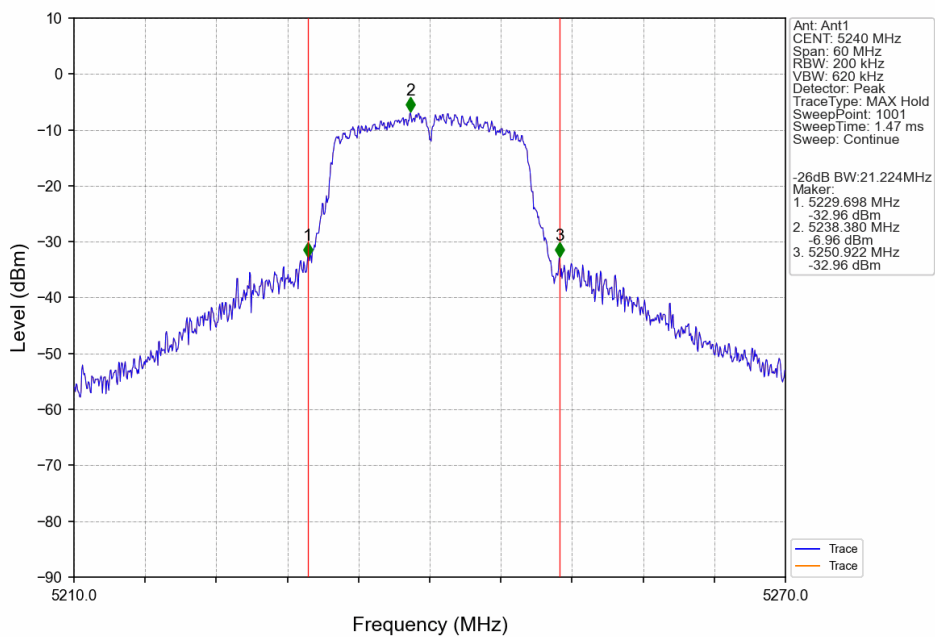
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



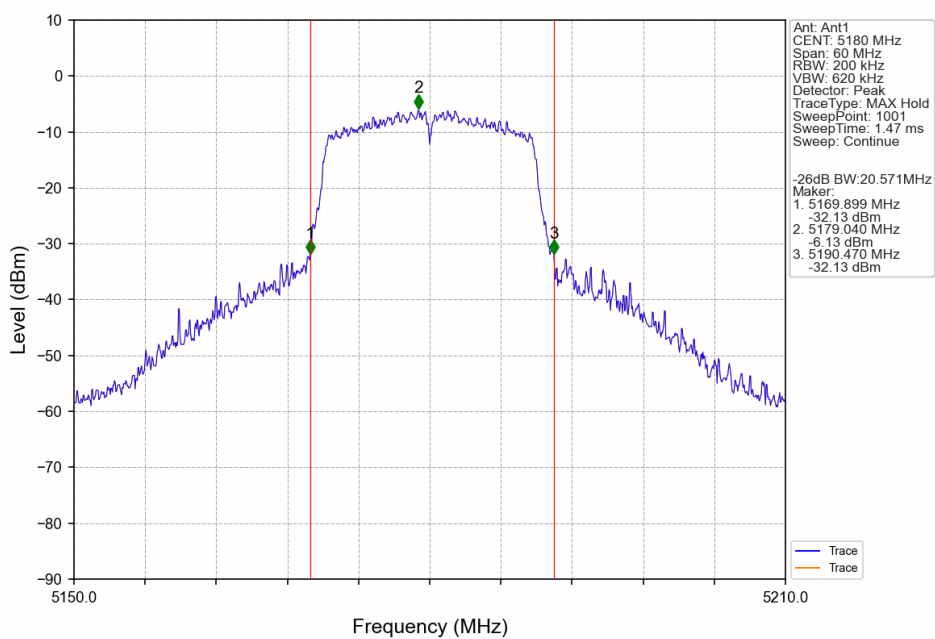
2.2.2 26dB BW



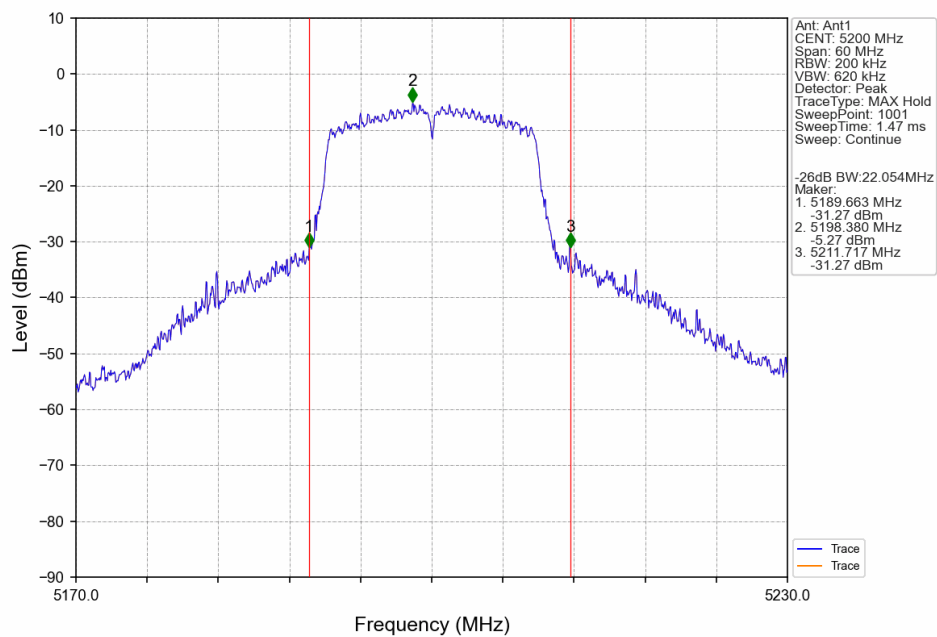
802.11a_HCH_5240MHz_Ant1_NTNV



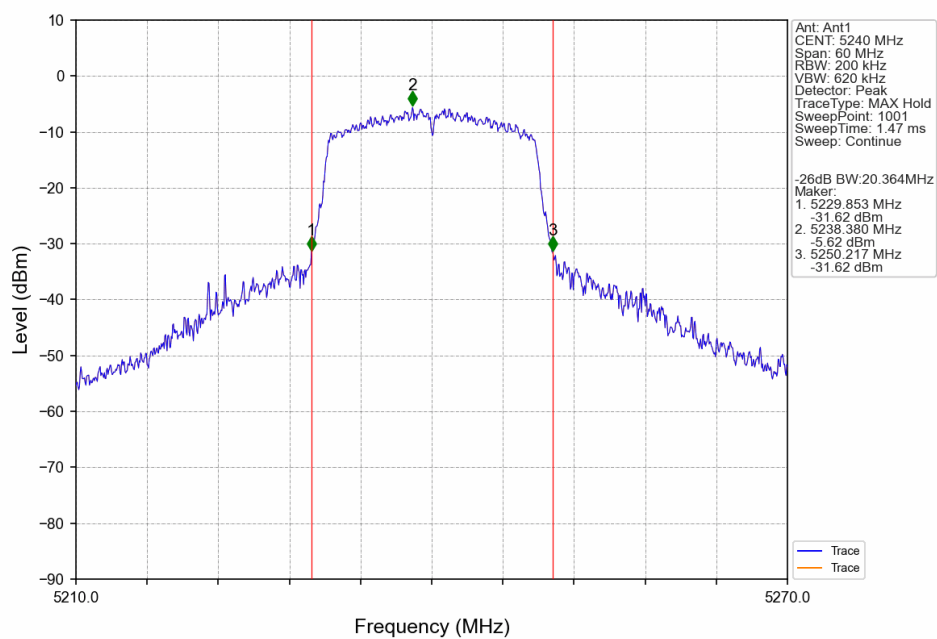
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



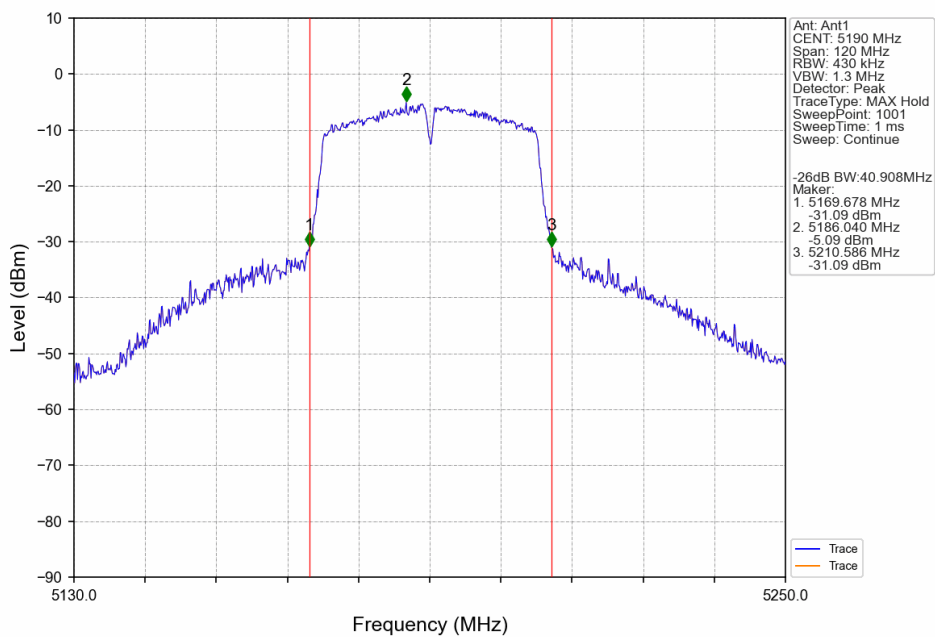
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



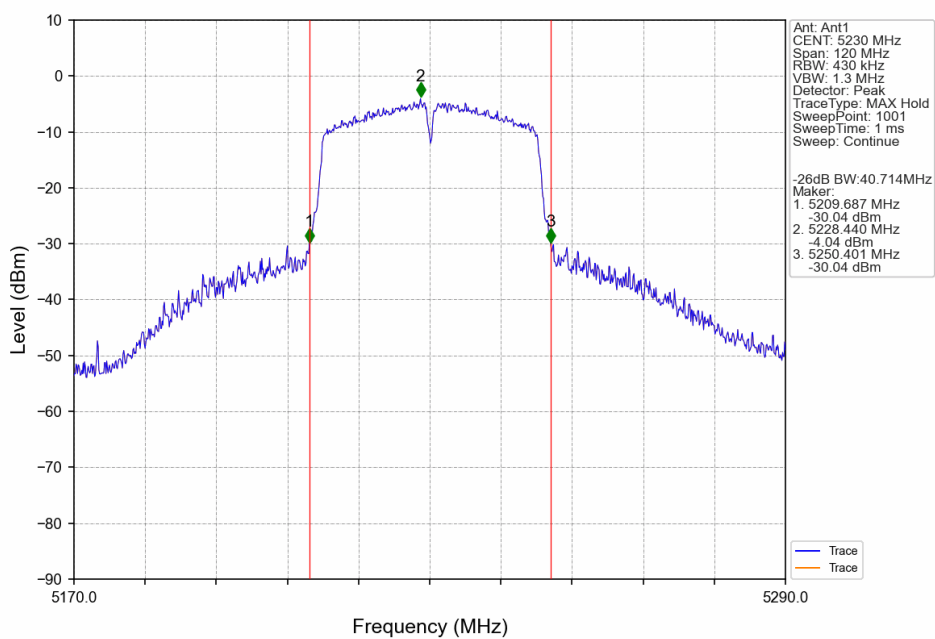
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



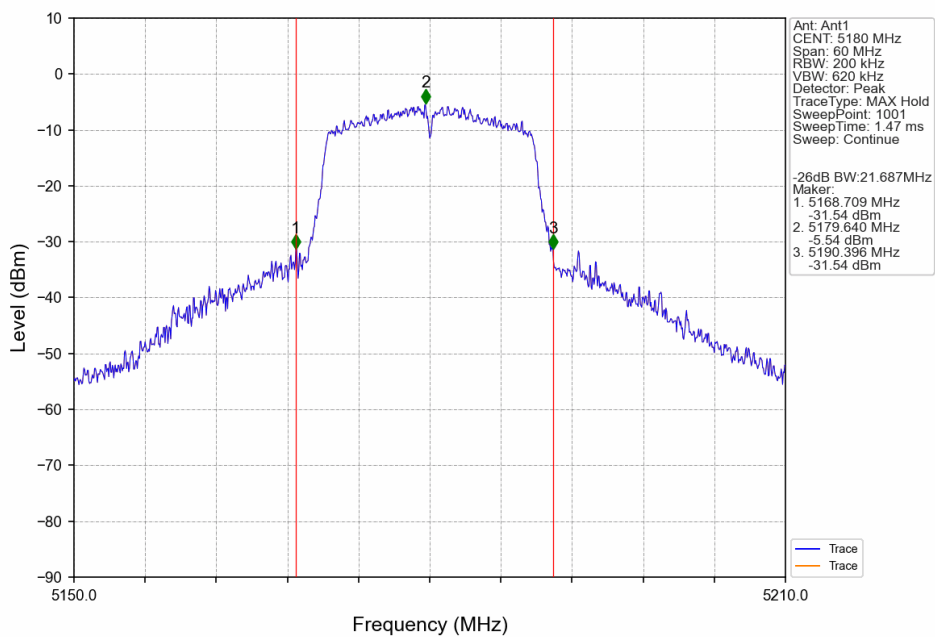
802.11n(HT40) LCH 5190MHz_Ant1_NTNV



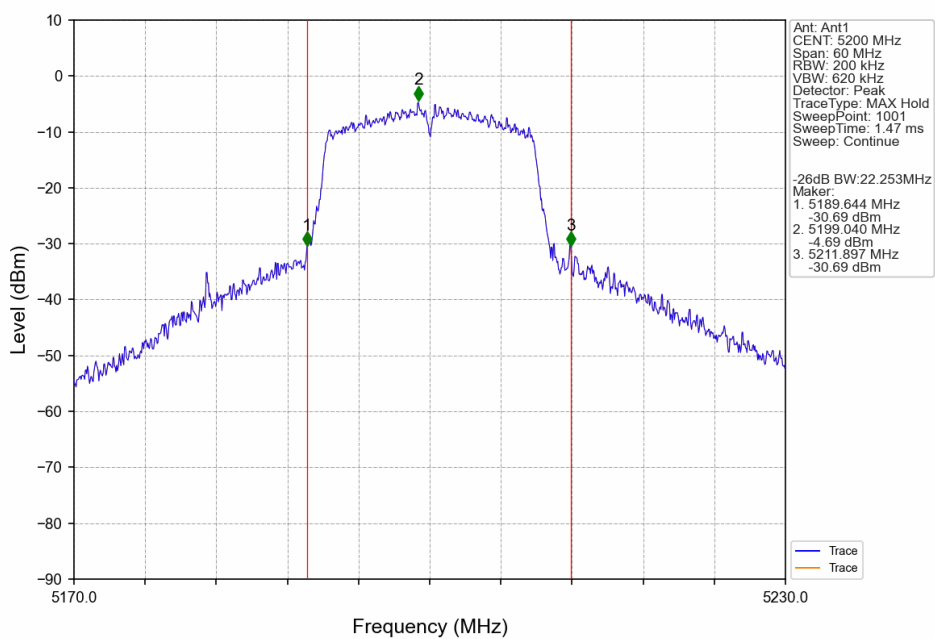
802.11n(HT40) HCH 5230MHz_Ant1_NTNV



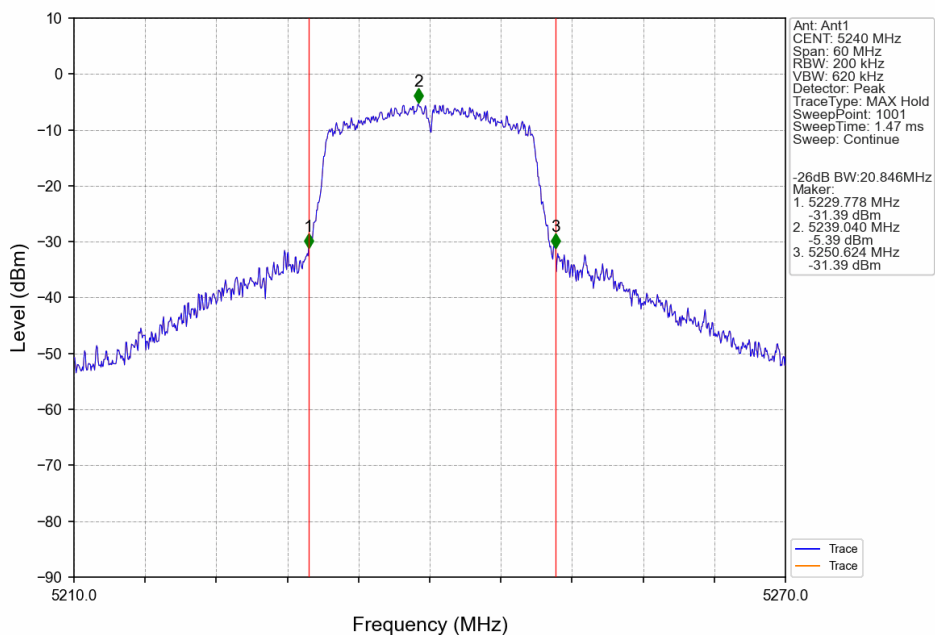
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



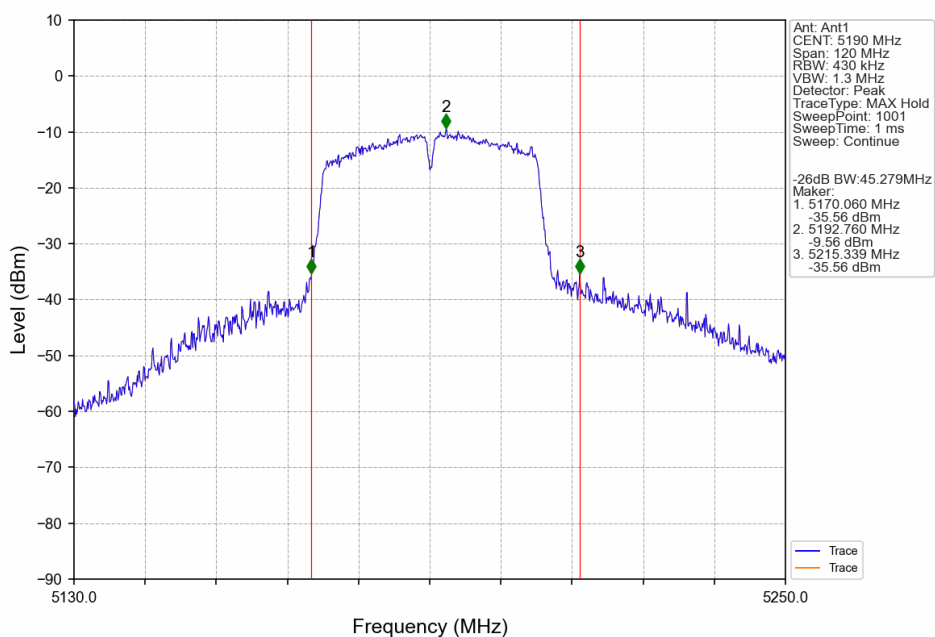
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



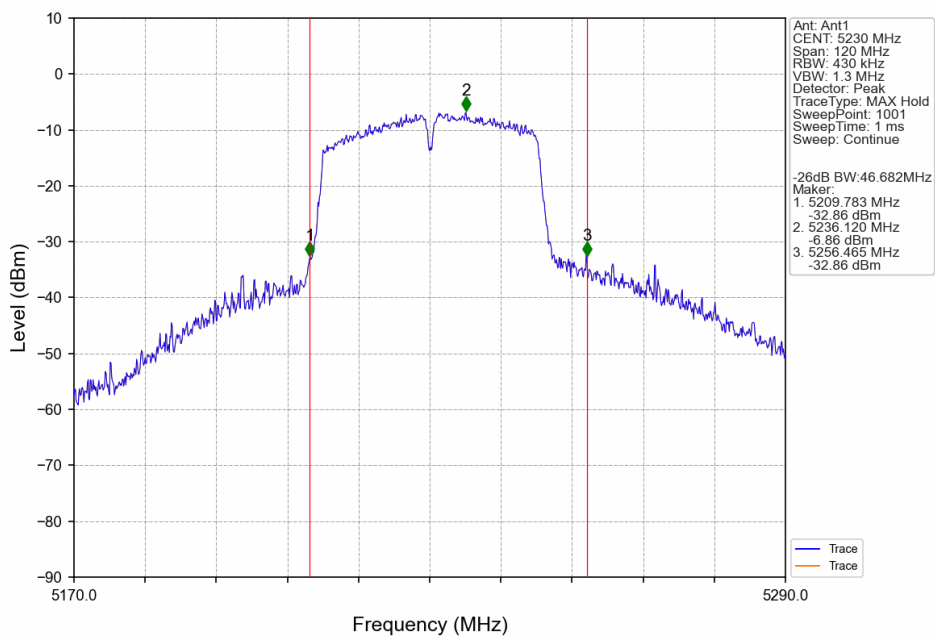
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



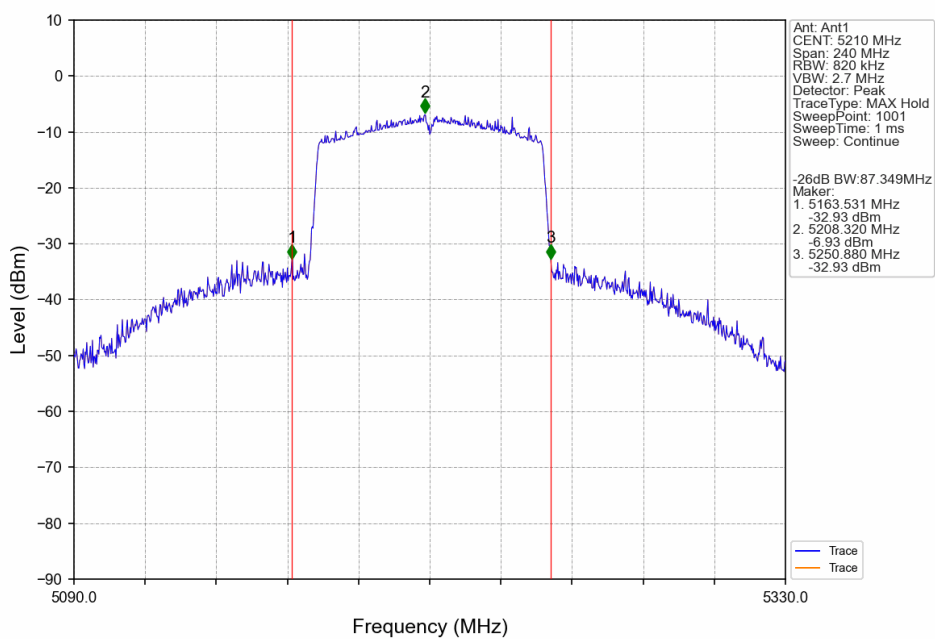
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



3. Maximum Conducted Output Power

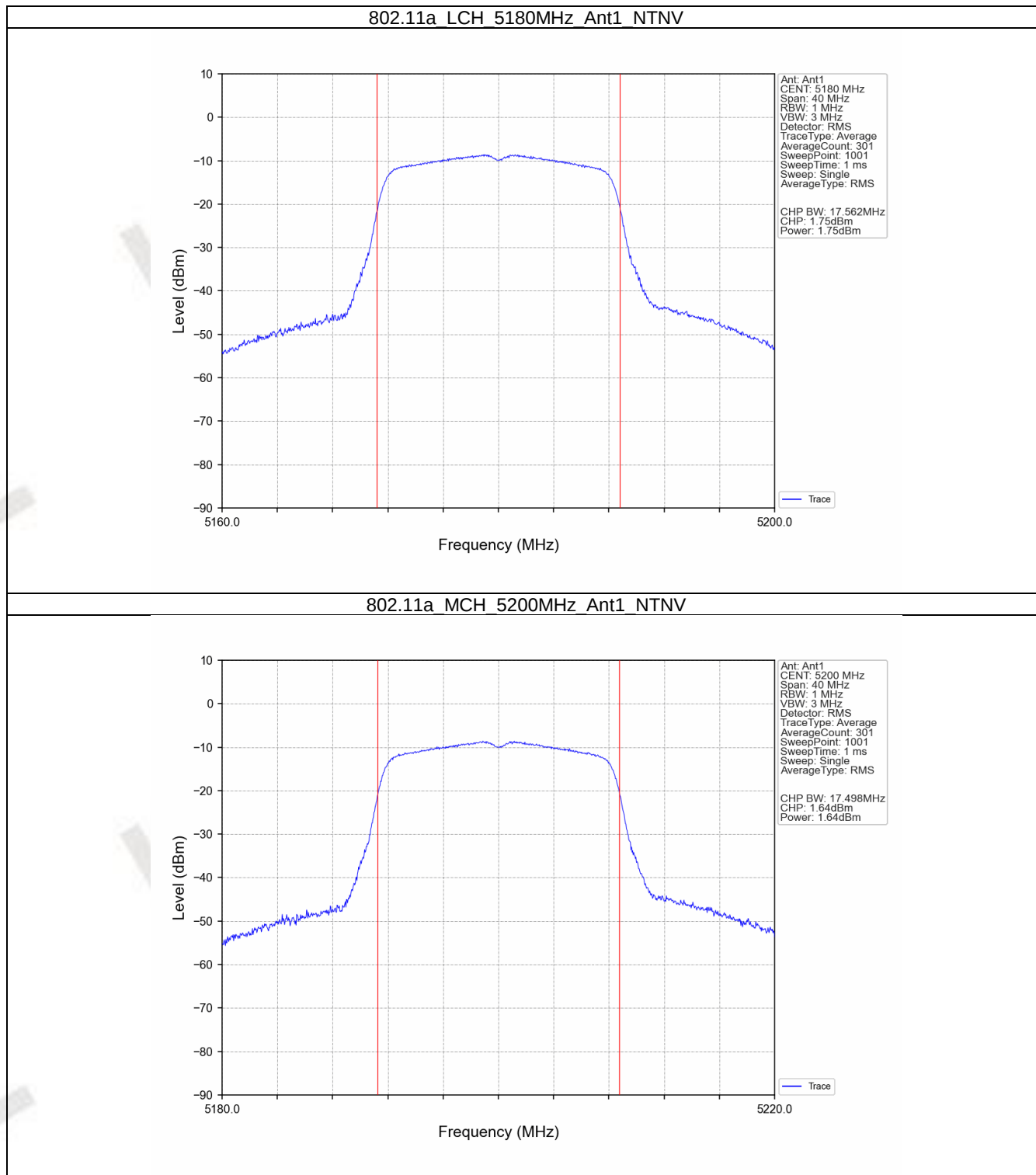
3.1 Test Result

3.1.1 Power

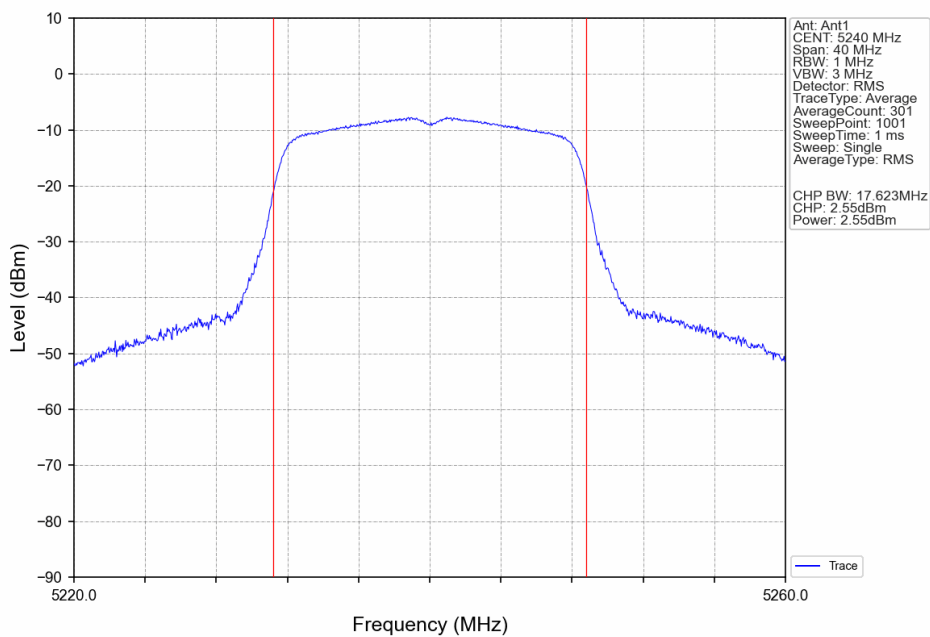
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	1.75	<=23.98	Pass
		5200	1.64	<=23.98	Pass
		5240	2.55	<=23.98	Pass
802.11n (HT20)	SISO	5180	3.66	<=23.98	Pass
		5200	4.17	<=23.98	Pass
		5240	3.91	<=23.98	Pass
802.11n (HT40)	SISO	5190	3.87	<=23.98	Pass
		5230	4.46	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	3.94	<=23.98	Pass
		5200	4.29	<=23.98	Pass
		5240	4.47	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	1.99	<=23.98	Pass
		5230	2.05	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	0.32	<=23.98	Pass
Note1: Antenna Gain: Ant1: 3.00dBi;					

3.2 Test Graph

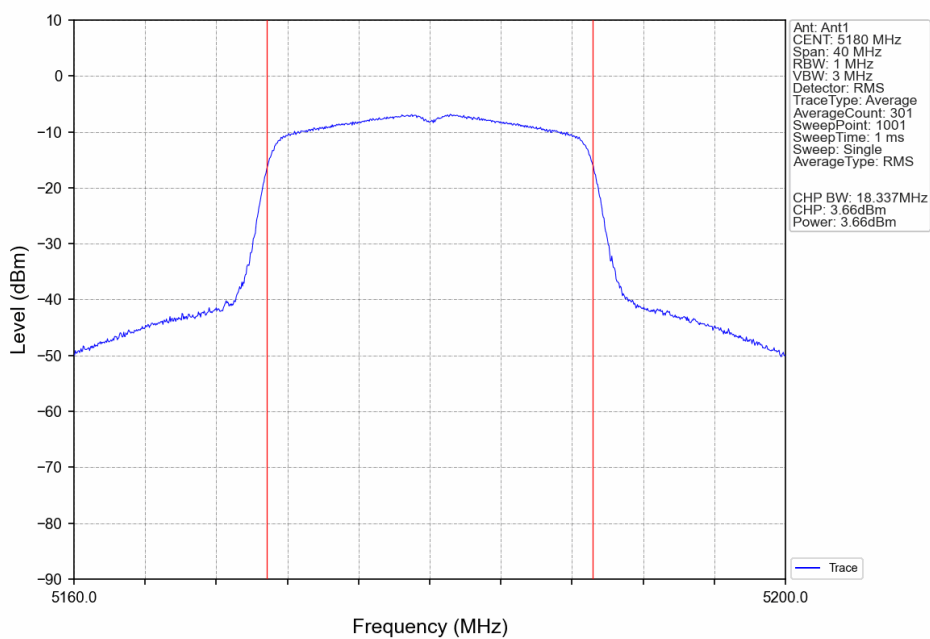
3.2.1 Power



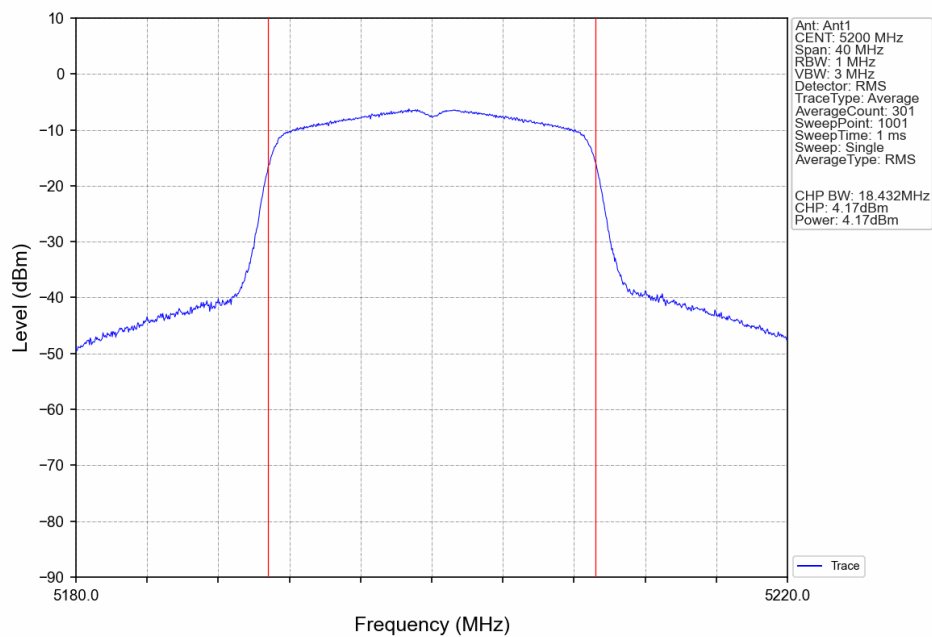
802.11a_HCH_5240MHz_Ant1_NTNV



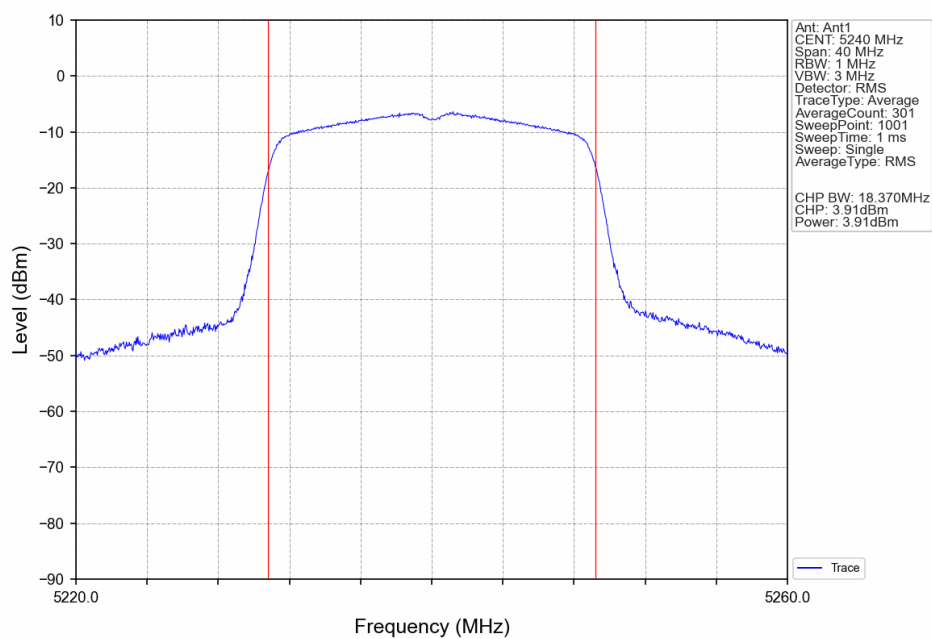
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



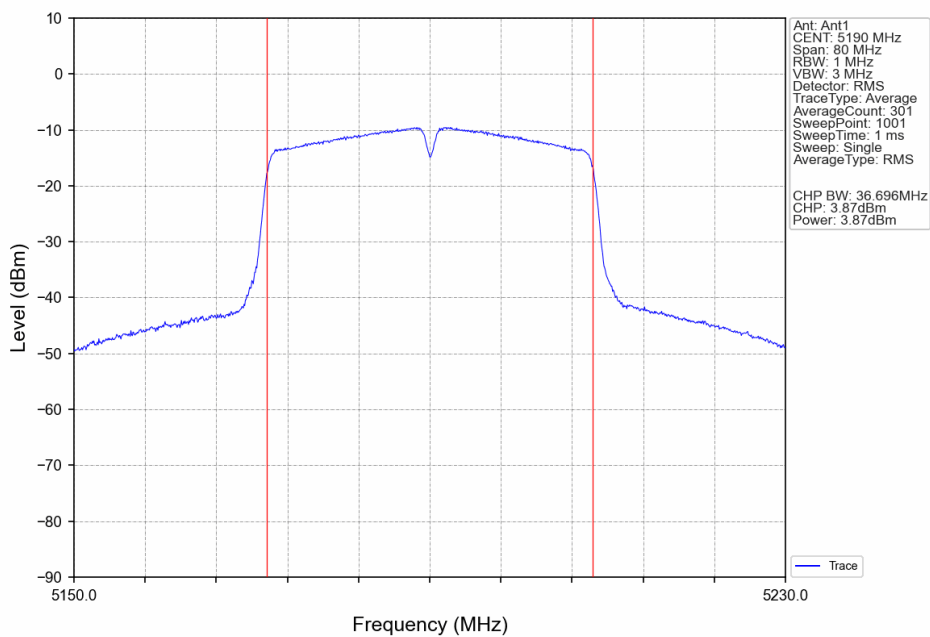
802.11n(HT20) MCH 5200MHz_Ant1_NTNV



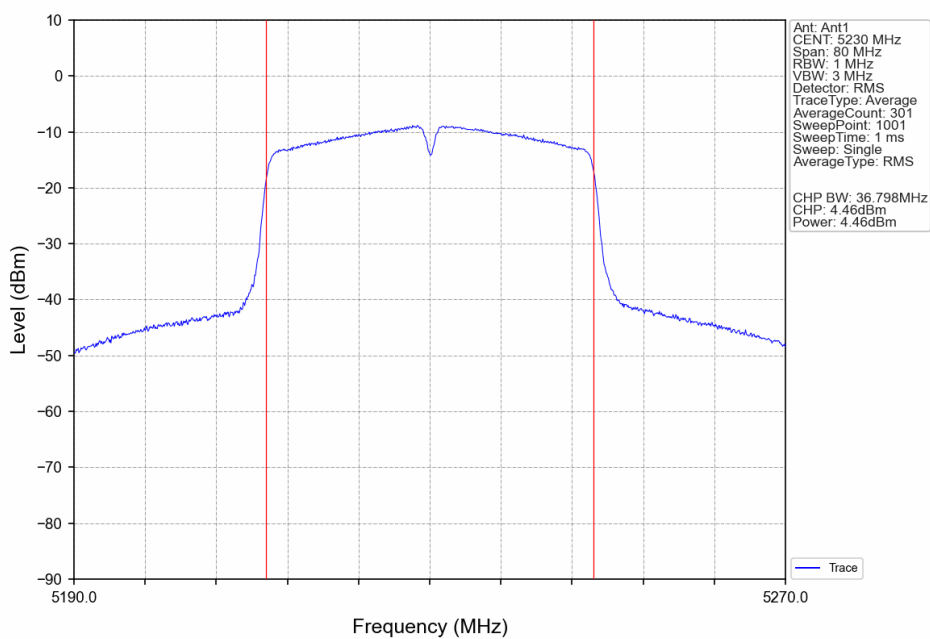
802.11n(HT20) HCH 5240MHz_Ant1_NTNV



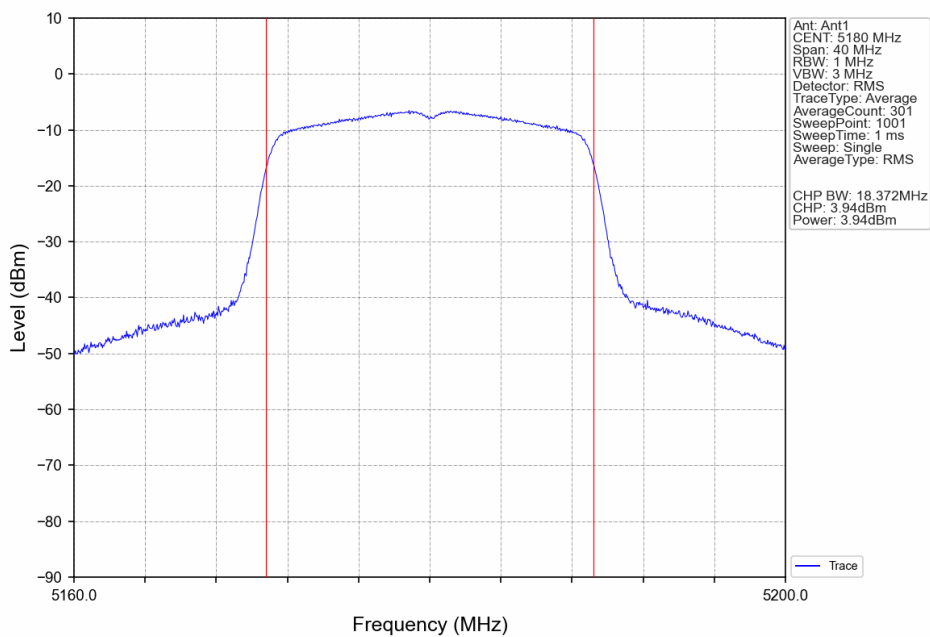
802.11n(HT40) LCH 5190MHz_Ant1_NTNV



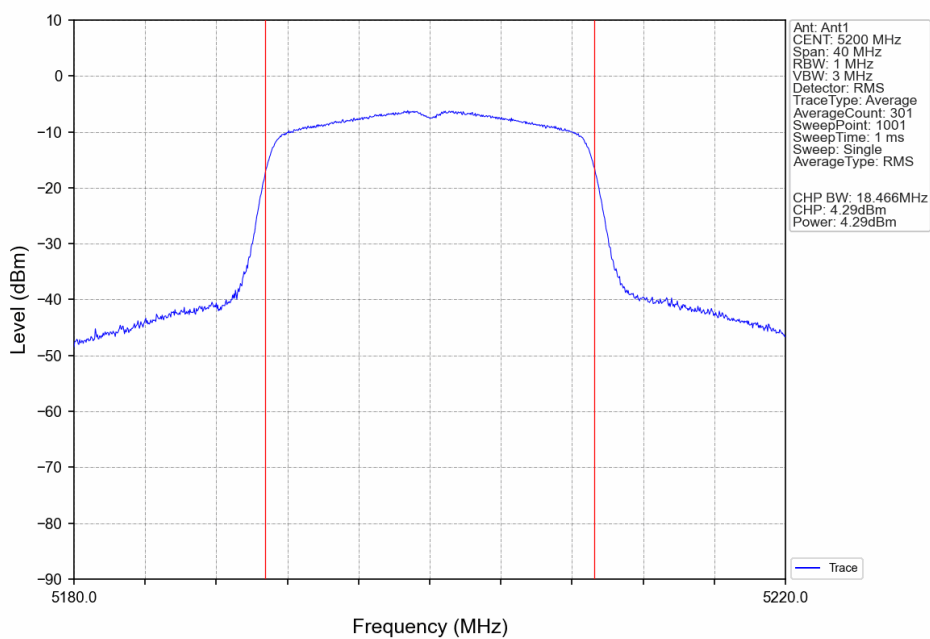
802.11n(HT40) HCH 5230MHz_Ant1_NTNV



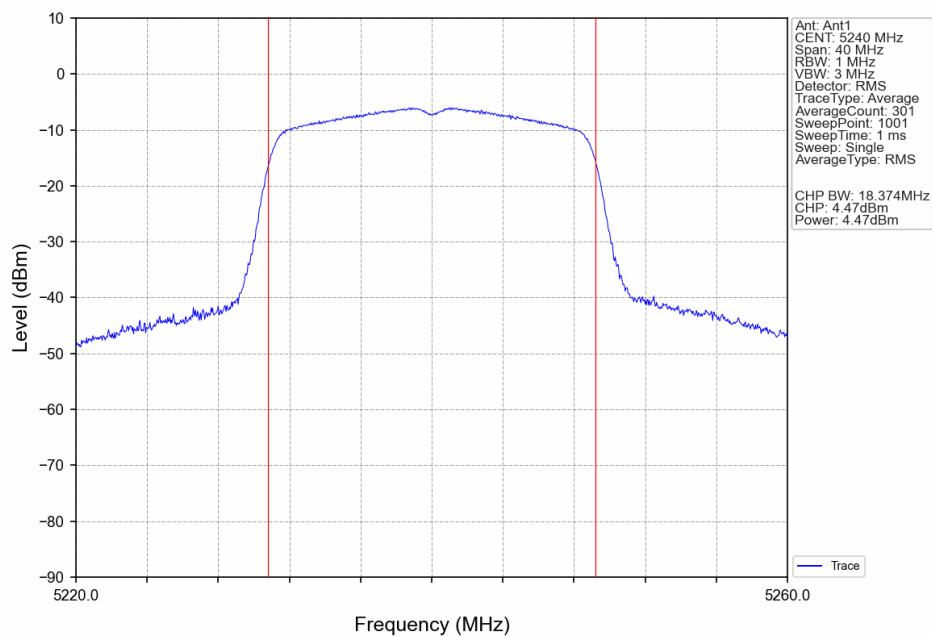
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



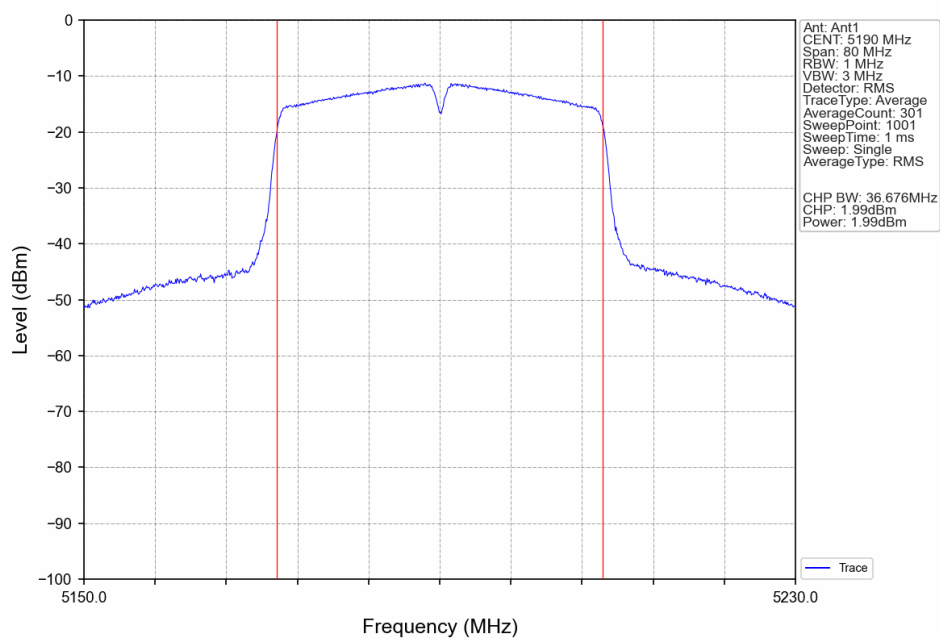
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



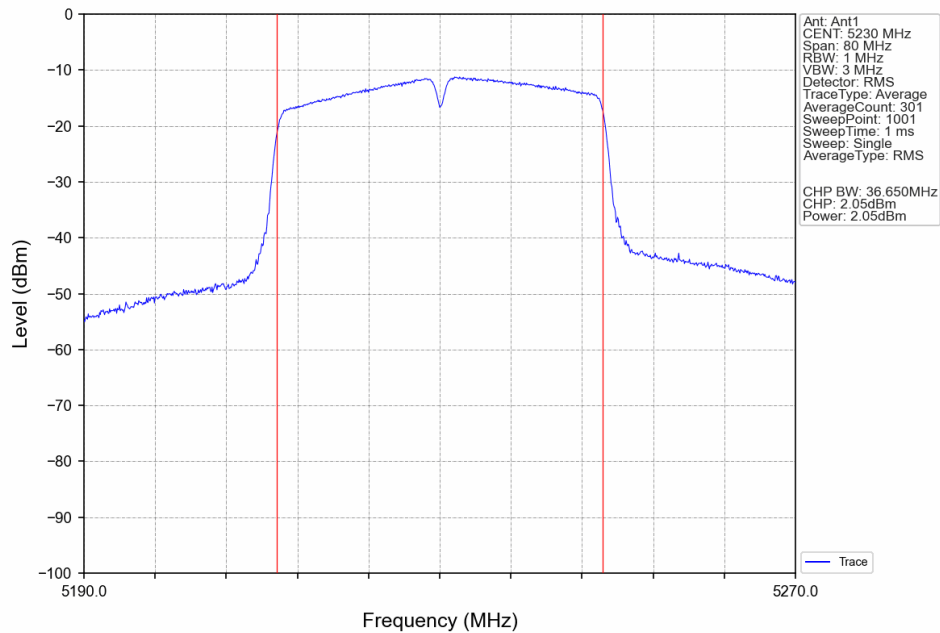
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



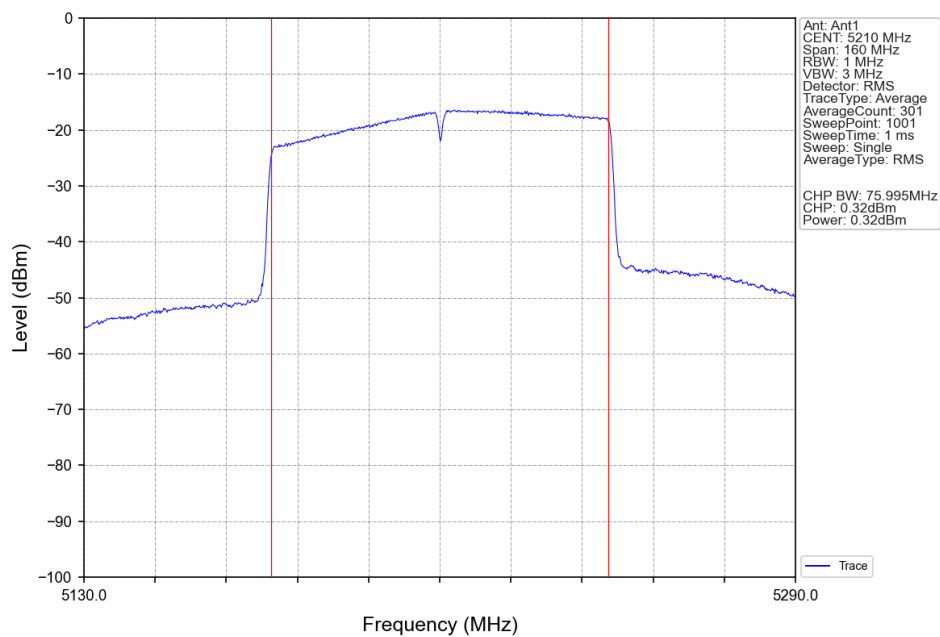
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40) HCH 5230MHz Ant1_NTNV



802.11ac(VHT80) MCH 5210MHz Ant1_NTNV



4. Maximum Power Spectral Density

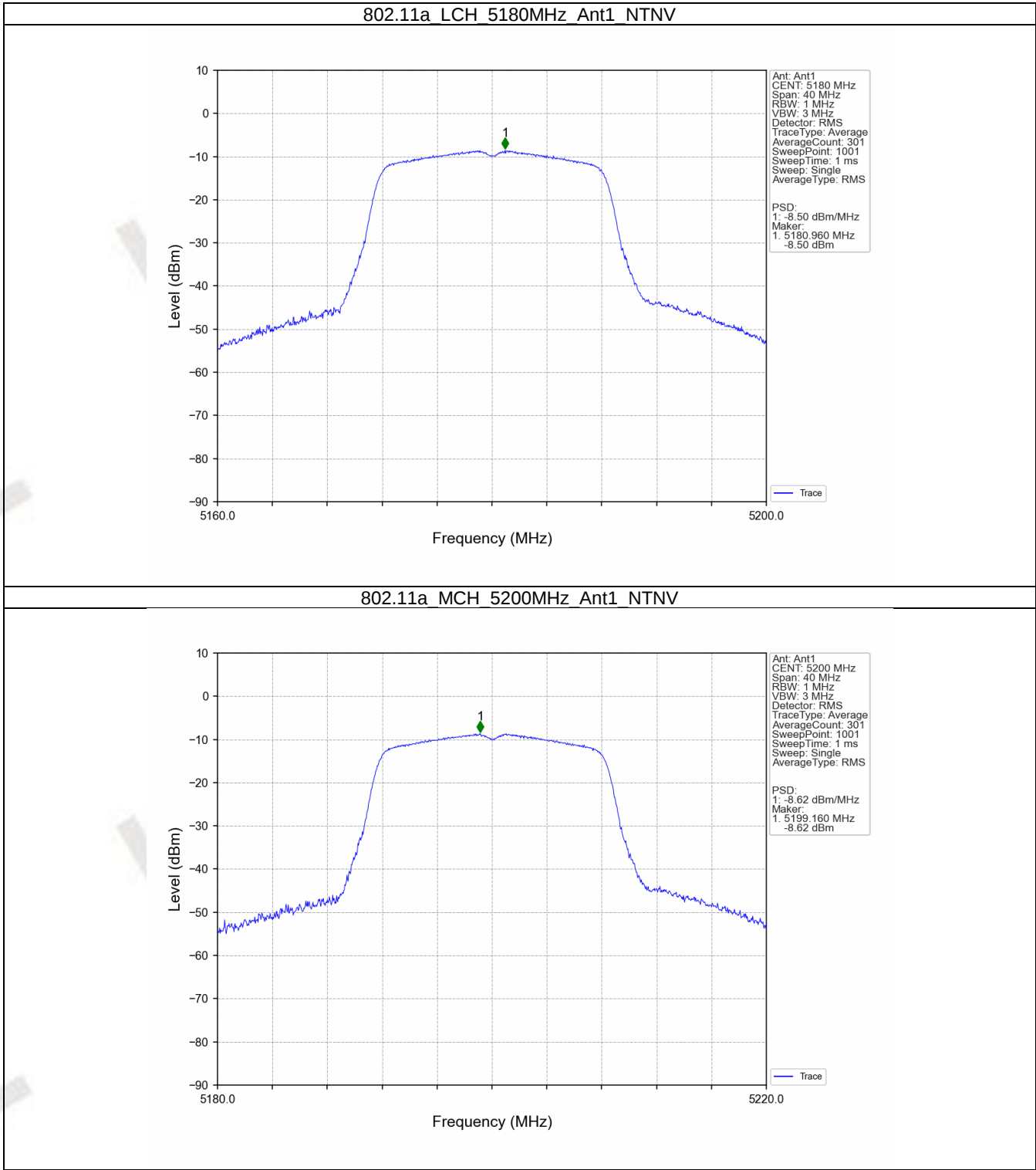
4.1 Test Result

4.1.1 PSD

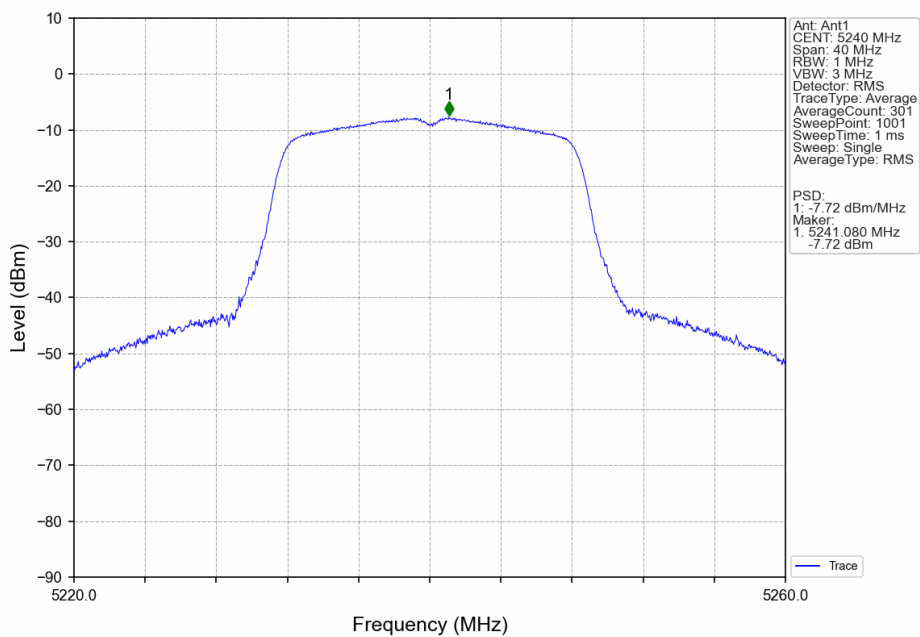
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-8.50	<=11	Pass
		5200	-8.62	<=11	Pass
		5240	-7.72	<=11	Pass
802.11n (HT20)	SISO	5180	-6.79	<=11	Pass
		5200	-6.32	<=11	Pass
		5240	-6.41	<=11	Pass
802.11n (HT40)	SISO	5190	-9.47	<=11	Pass
		5230	-8.84	<=11	Pass
802.11ac (VHT20)	SISO	5180	-6.42	<=11	Pass
		5200	-6.19	<=11	Pass
		5240	-6.05	<=11	Pass
802.11ac (VHT40)	SISO	5190	-13.94	<=11	Pass
		5230	-11.16	<=11	Pass
802.11ac (VHT80)	SISO	5210	-16.35	<=11	Pass
Note1: Antenna Gain: Ant1: 3.00dBi;					

4.2 Test Graph

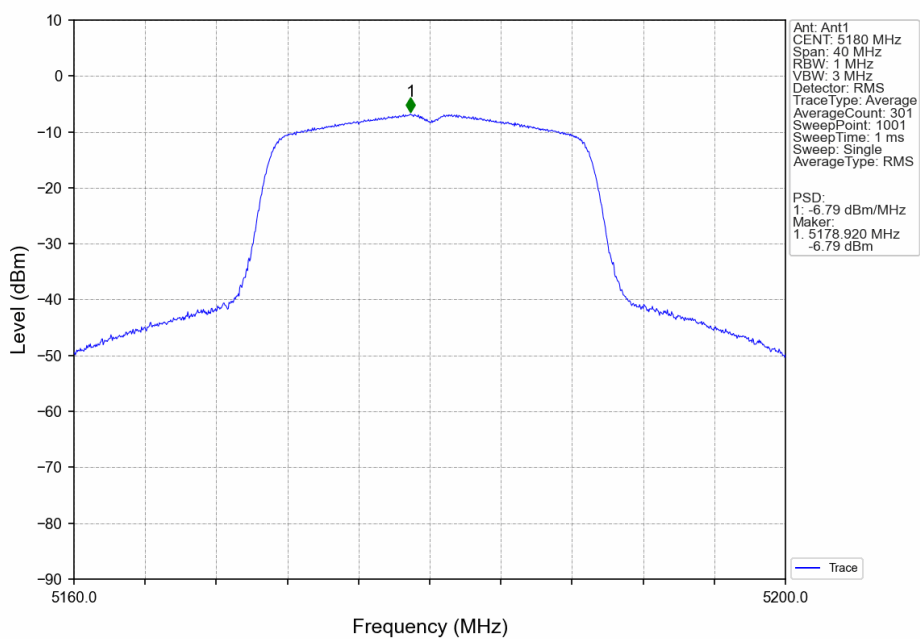
4.2.1 PSD



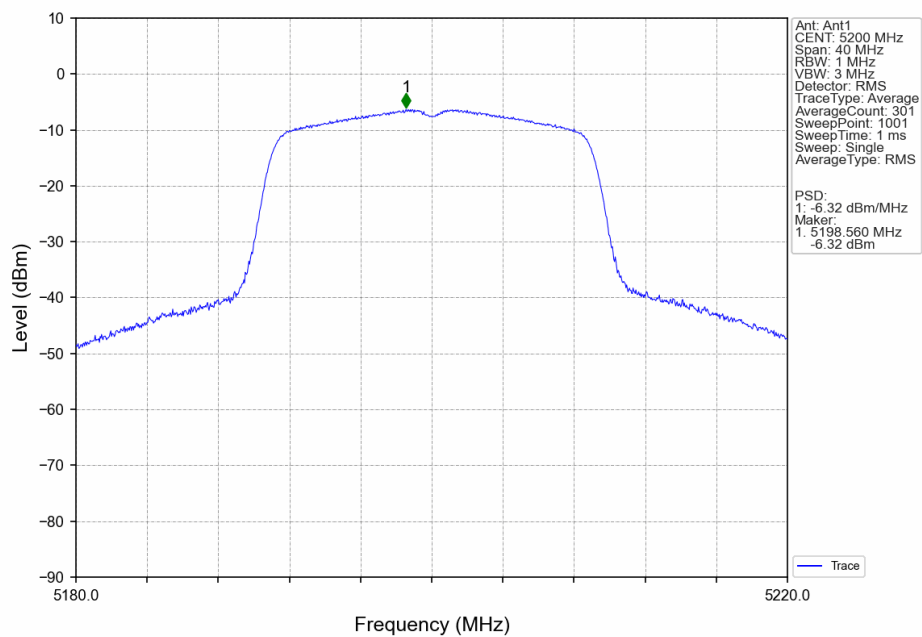
802.11a_HCH_5240MHz_Ant1_NTNV



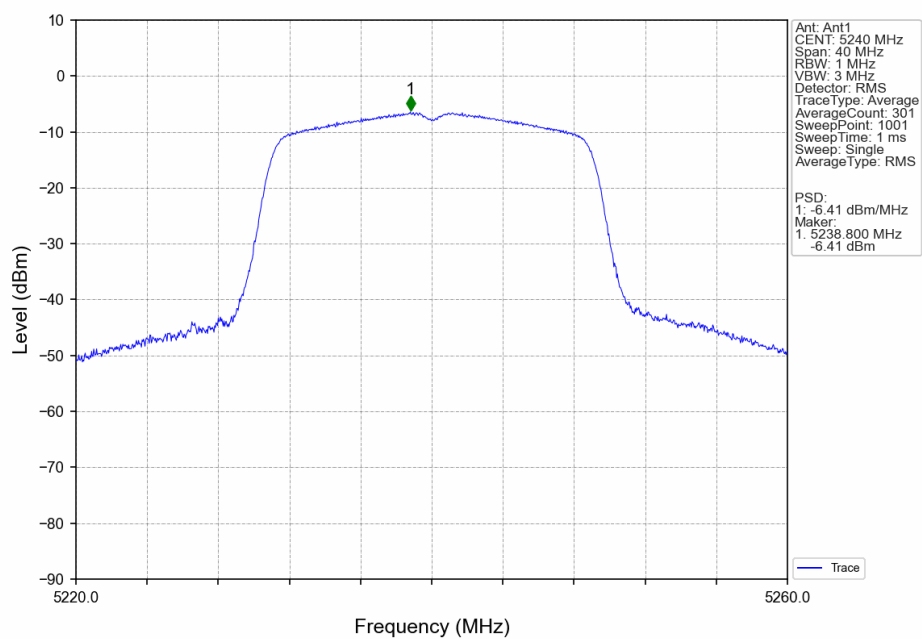
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



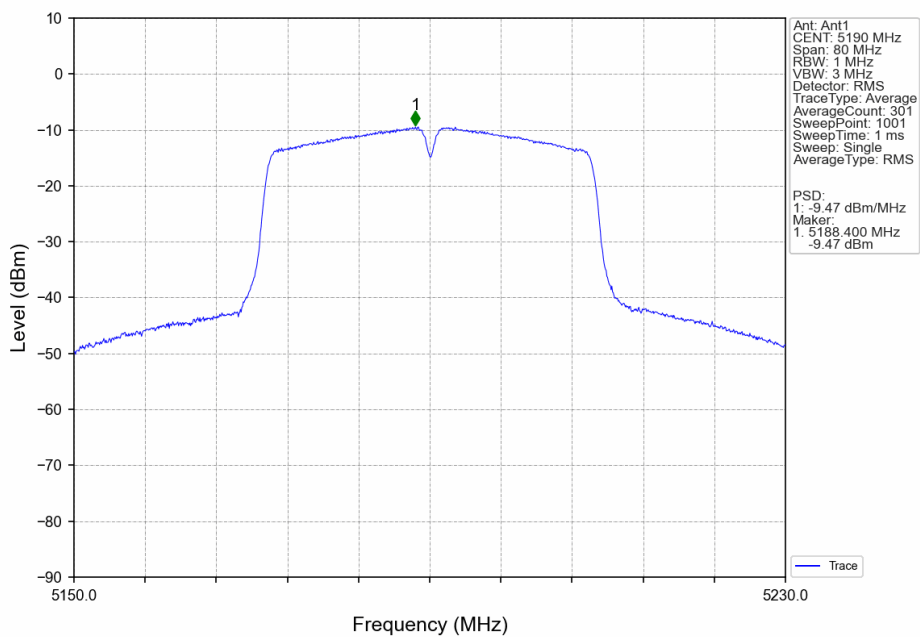
802.11n(HT20) MCH 5200MHz_Ant1_NTNV



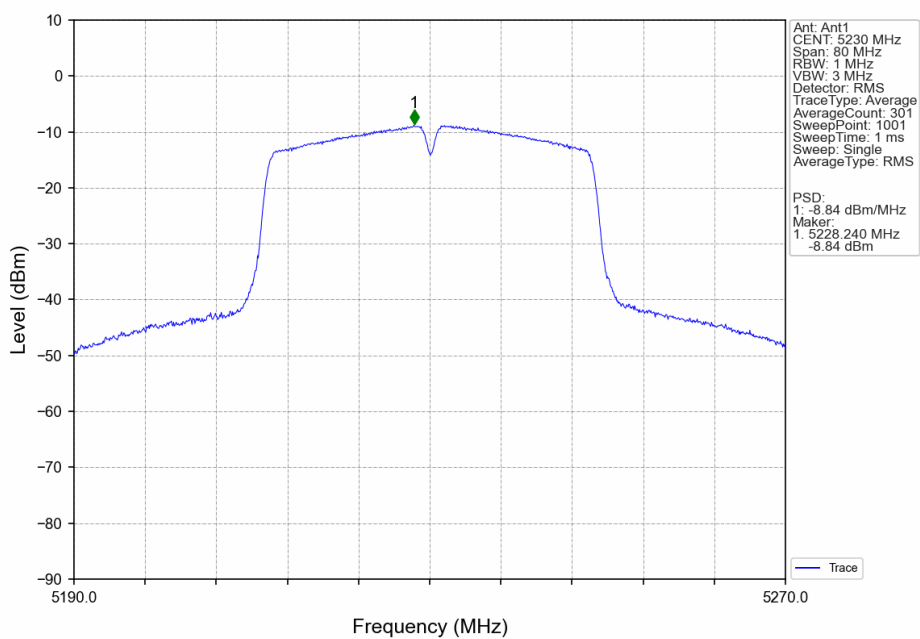
802.11n(HT20) HCH 5240MHz_Ant1_NTNV



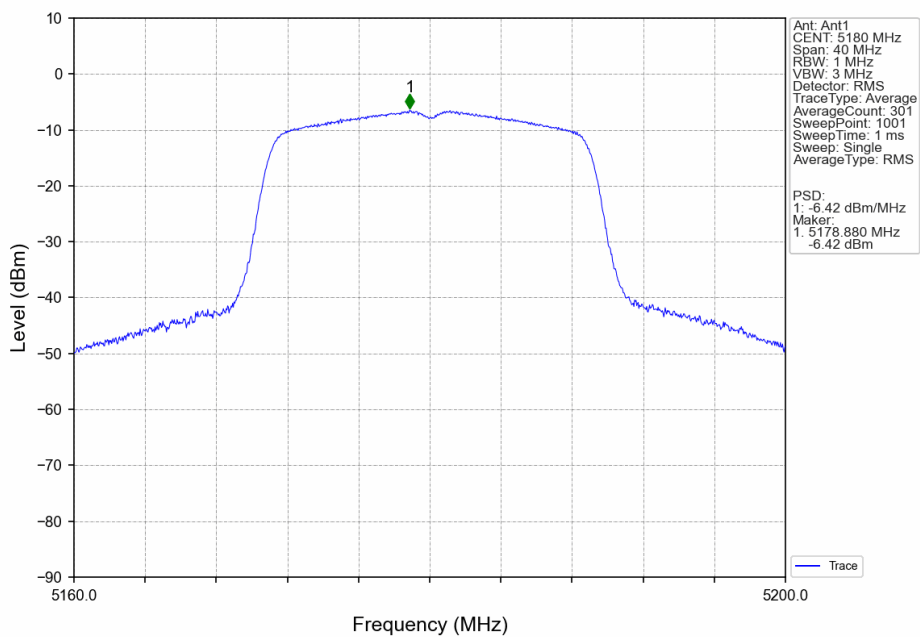
802.11n(HT40) LCH 5190MHz_Ant1_NTNV



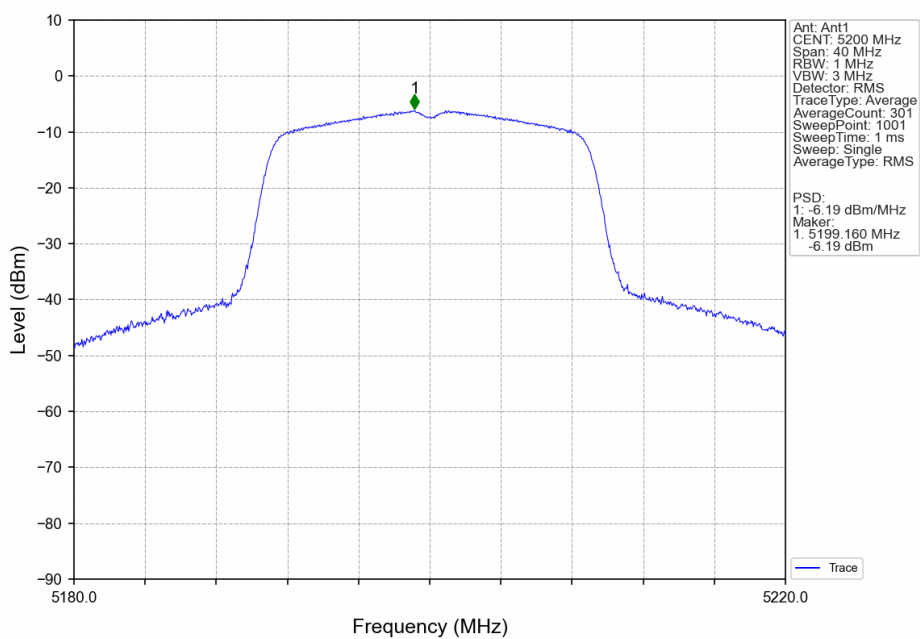
802.11n(HT40) HCH 5230MHz_Ant1_NTNV



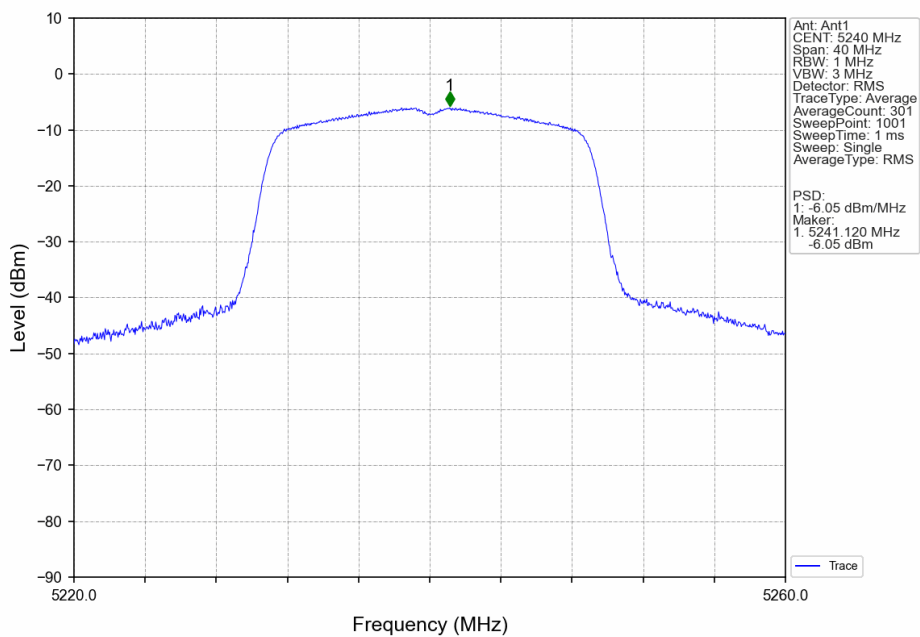
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



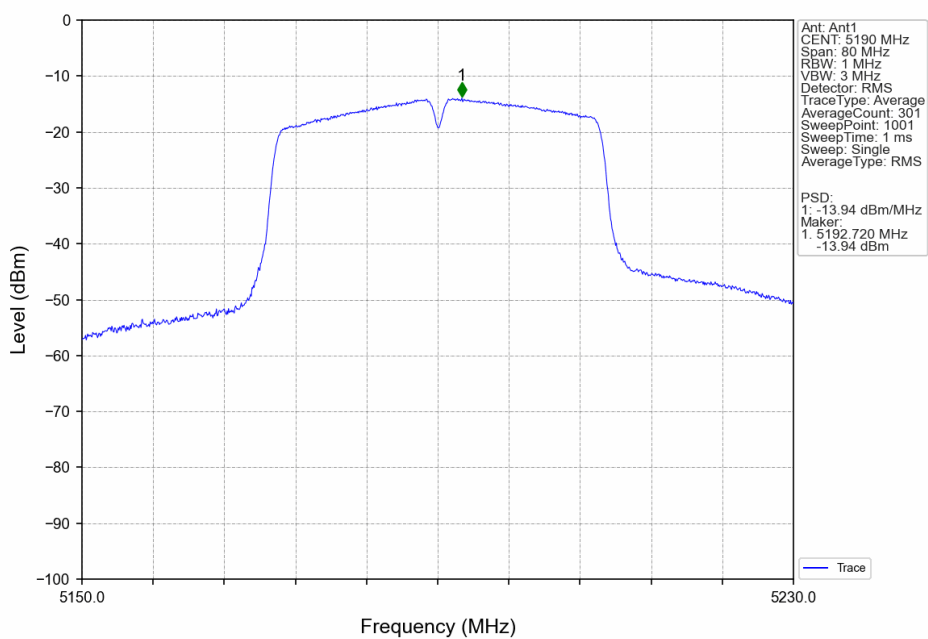
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



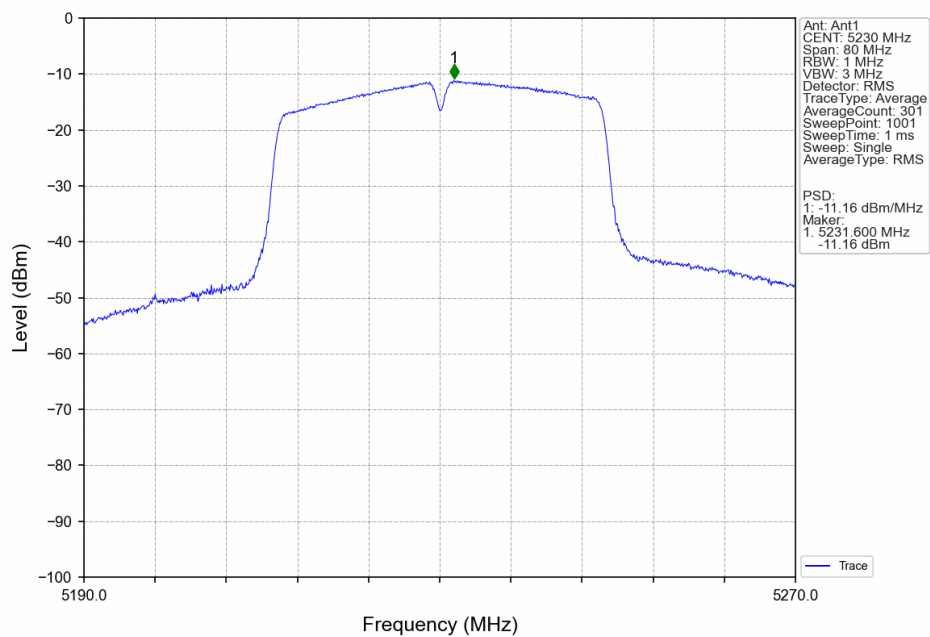
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



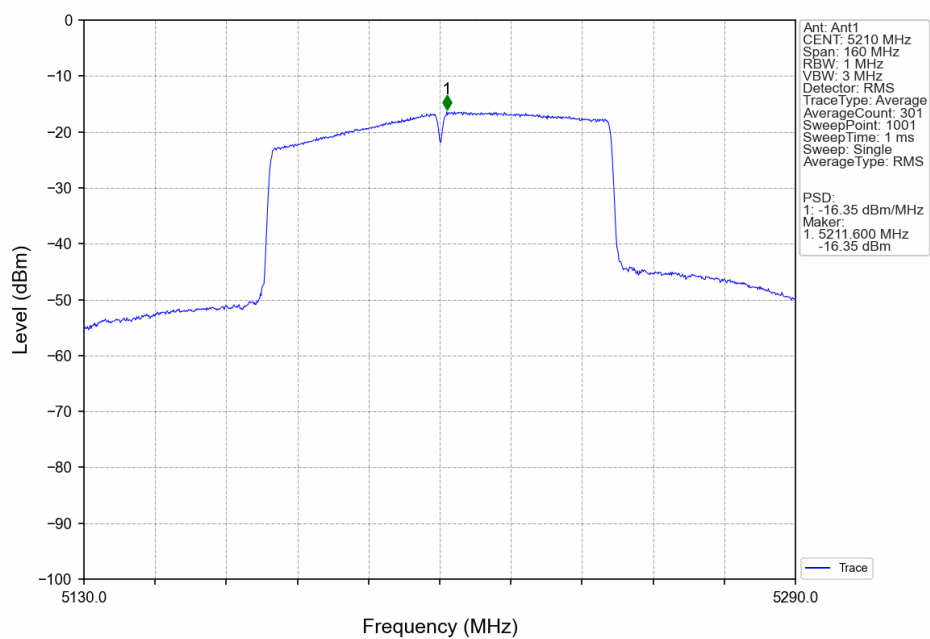
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Mode	TX Type	Frequency (MHz)	Temperature (°C)	Ant1			Verdict
				Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	
Carrier Wave	SISO	5180	20	10.8	5179.993	5150 to 5250	Pass
				12	5179.993	5150 to 5250	Pass
				13.2	5179.992	5150 to 5250	Pass
			-30	12	5179.992	5150 to 5250	Pass
			-20	12	5179.992	5150 to 5250	Pass
			-10	12	5179.992	5150 to 5250	Pass
			0	12	5179.992	5150 to 5250	Pass
			10	12	5179.992	5150 to 5250	Pass
			30	12	5179.992	5150 to 5250	Pass
			40	12	5179.992	5150 to 5250	Pass
			50	12	5179.992	5150 to 5250	Pass
		5200	20	10.8	5199.992	5150 to 5250	Pass
				12	5199.992	5150 to 5250	Pass
				13.2	5199.992	5150 to 5250	Pass
			-30	12	5199.992	5150 to 5250	Pass
			-20	12	5199.991	5150 to 5250	Pass
			-10	12	5199.991	5150 to 5250	Pass
			0	12	5199.991	5150 to 5250	Pass
			10	12	5199.991	5150 to 5250	Pass
			30	12	5199.991	5150 to 5250	Pass
			40	12	5199.991	5150 to 5250	Pass
			50	12	5199.991	5150 to 5250	Pass
		5240	20	10.8	5239.993	5150 to 5250	Pass
				12	5239.992	5150 to 5250	Pass
				13.2	5239.992	5150 to 5250	Pass
			-30	12	5239.991	5150 to 5250	Pass
			-20	12	5239.991	5150 to 5250	Pass
			-10	12	5239.991	5150 to 5250	Pass
			0	12	5239.991	5150 to 5250	Pass
			10	12	5239.991	5150 to 5250	Pass
			30	12	5239.991	5150 to 5250	Pass
			40	12	5239.991	5150 to 5250	Pass
			50	12	5239.991	5150 to 5250	Pass
		5190	20	10.8	5189.992	5150 to 5250	Pass
				12	5189.991	5150 to 5250	Pass
				13.2	5189.991	5150 to 5250	Pass
			-30	12	5189.991	5150 to 5250	Pass
			-20	12	5189.991	5150 to 5250	Pass
			-10	12	5189.991	5150 to 5250	Pass
			0	12	5189.991	5150 to 5250	Pass
			10	12	5189.991	5150 to 5250	Pass
			30	12	5189.991	5150 to 5250	Pass
			40	12	5189.991	5150 to 5250	Pass
			50	12	5189.991	5150 to 5250	Pass
		5230	20	10.8	5229.991	5150 to 5250	Pass
				12	5229.991	5150 to 5250	Pass
				13.2	5229.991	5150 to 5250	Pass
			-30	12	5229.991	5150 to 5250	Pass
			-20	12	5229.991	5150 to 5250	Pass
			-10	12	5229.990	5150 to 5250	Pass

			0	12	5229.990	5150 to 5250	Pass
			10	12	5229.990	5150 to 5250	Pass
			30	12	5229.990	5150 to 5250	Pass
			40	12	5229.990	5150 to 5250	Pass
			50	12	5229.990	5150 to 5250	Pass
		5210	20	10.8	5209.992	5150 to 5250	Pass
				12	5209.992	5150 to 5250	Pass
				13.2	5209.991	5150 to 5250	Pass
			-30	12	5209.991	5150 to 5250	Pass
			-20	12	5209.991	5150 to 5250	Pass
			-10	12	5209.991	5150 to 5250	Pass
			0	12	5209.991	5150 to 5250	Pass
			10	12	5209.991	5150 to 5250	Pass
			30	12	5209.991	5150 to 5250	Pass
			40	12	5209.991	5150 to 5250	Pass
			50	12	5209.990	5150 to 5250	Pass