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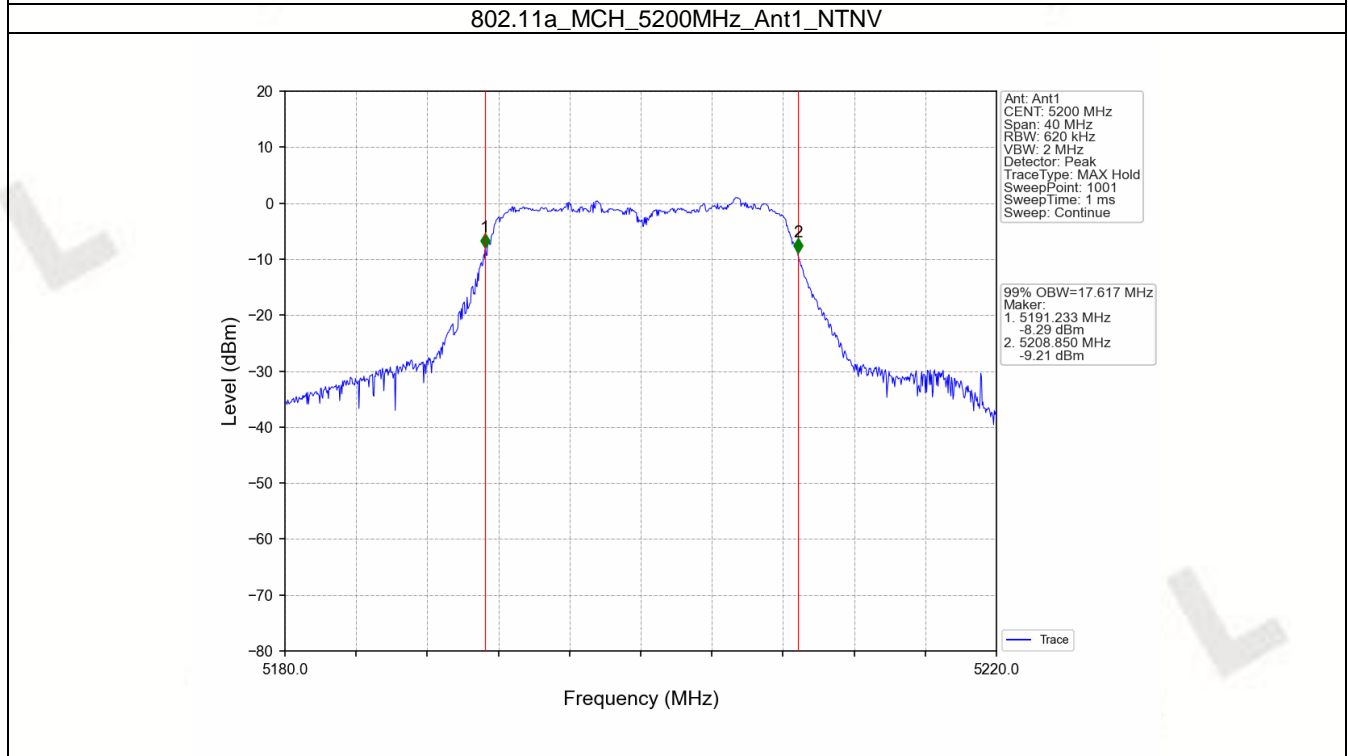
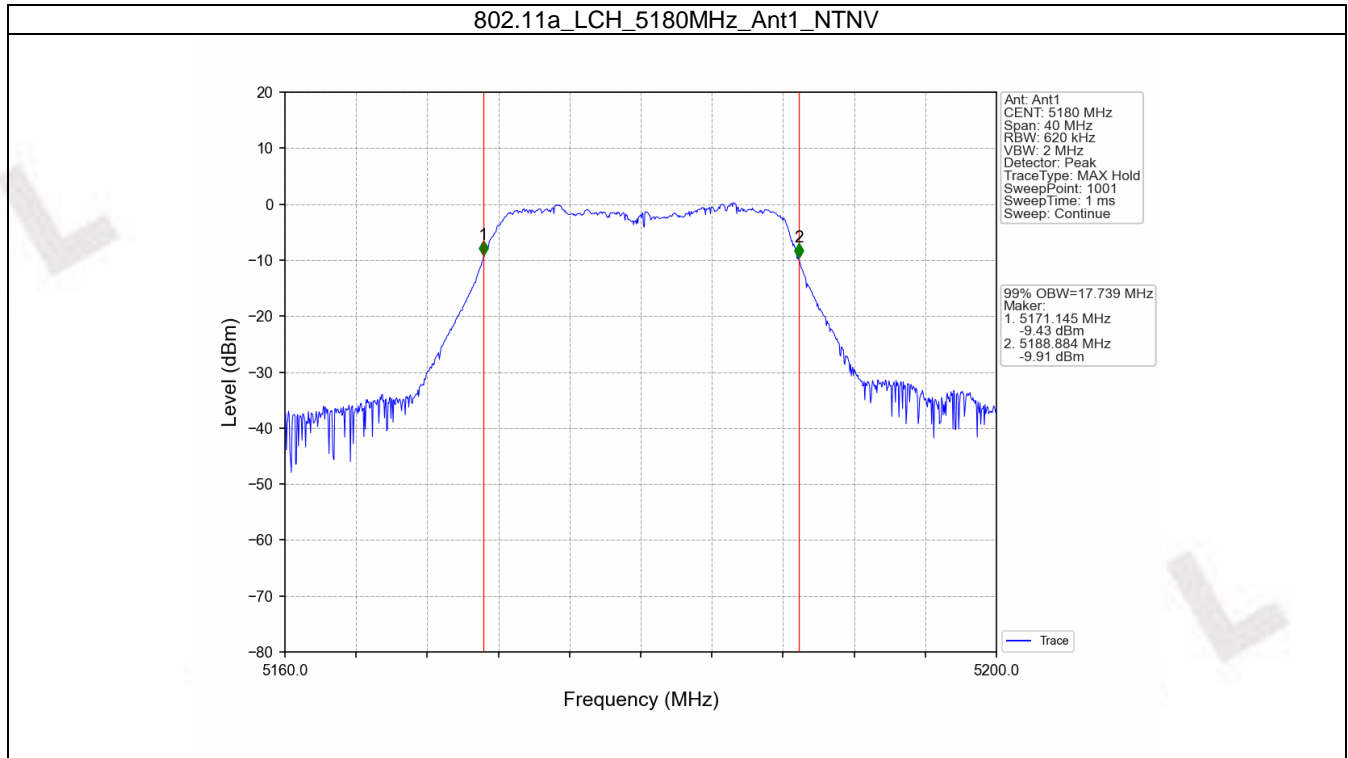
## 1. Bandwidth

### 1.1 OBW

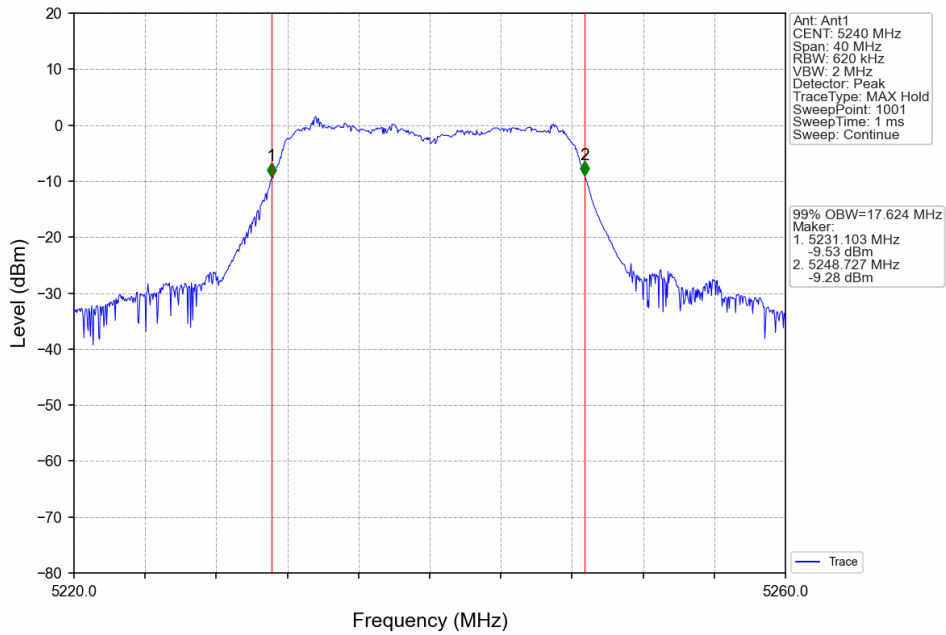
#### 1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.739	/	Pass
		5200	1	17.617	/	Pass
		5240	1	17.624	/	Pass
802.11n (HT20)	SISO	5180	1	18.568	/	Pass
		5200	1	18.485	/	Pass
		5240	1	18.567	/	Pass
802.11n (HT40)	SISO	5190	1	36.935	/	Pass
		5230	1	36.949	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.291	/	Pass
		5200	1	18.572	/	Pass
		5240	1	18.487	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.929	/	Pass
		5230	1	36.956	/	Pass
802.11ac (VHT80)	SISO	5210	1	76.889	/	Pass

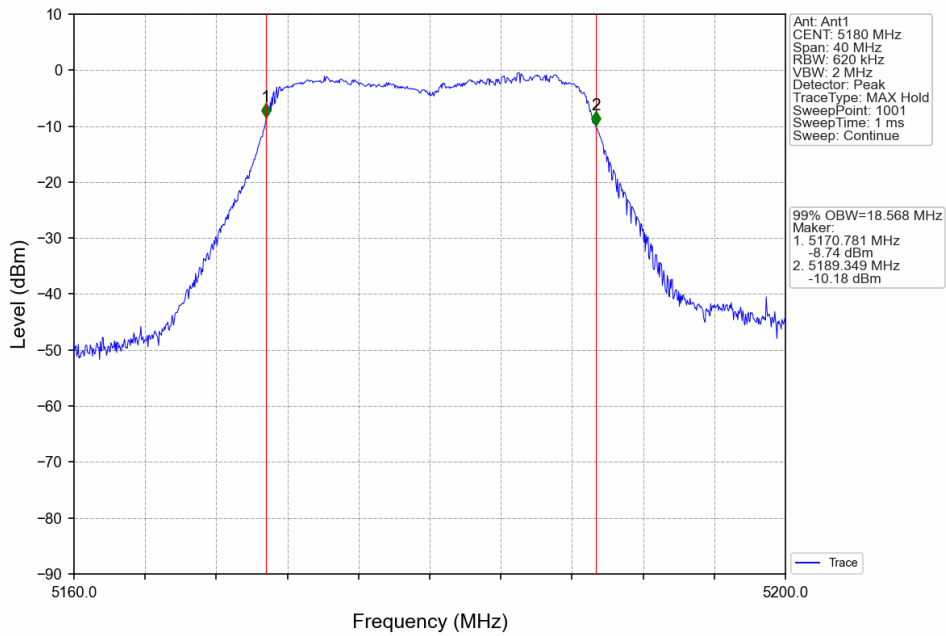
1.1.2 Test Graph



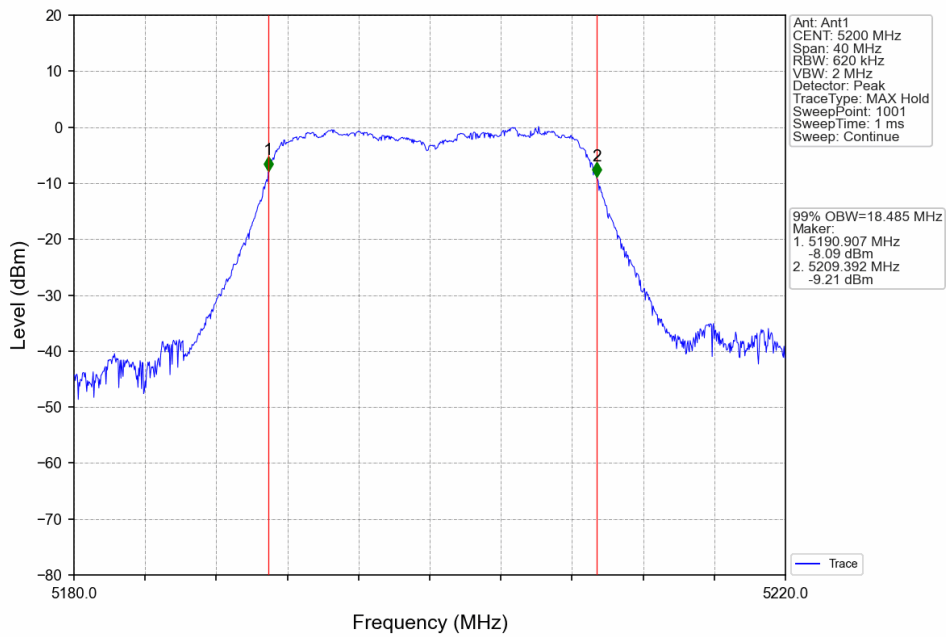
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



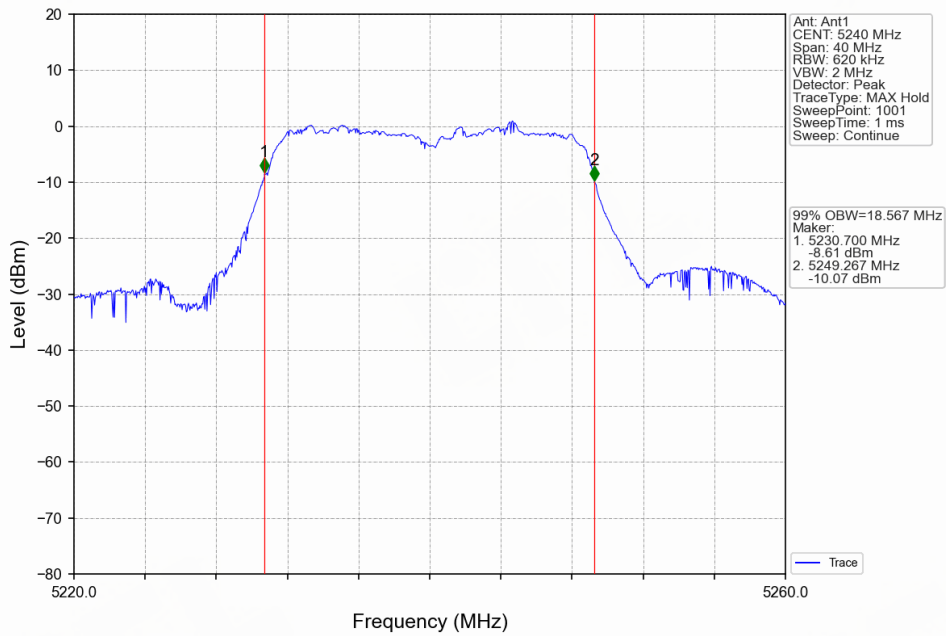
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV

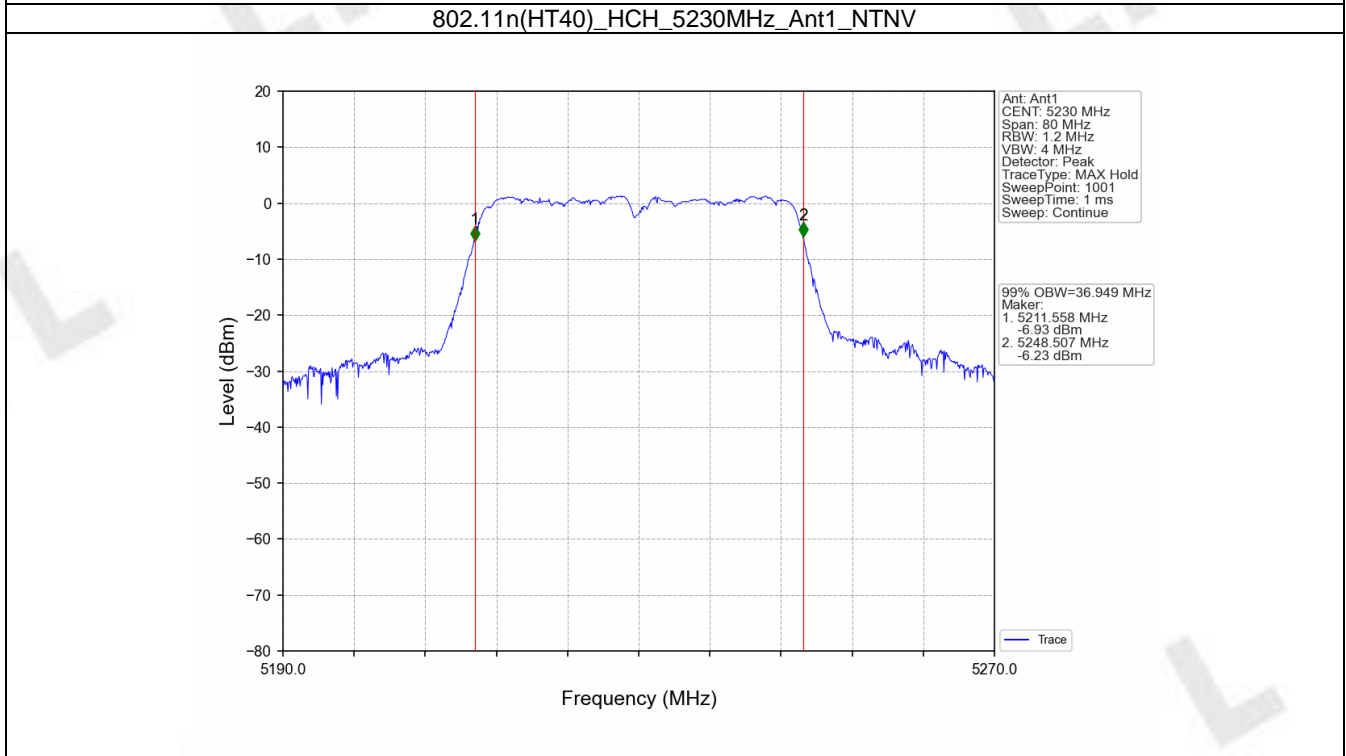
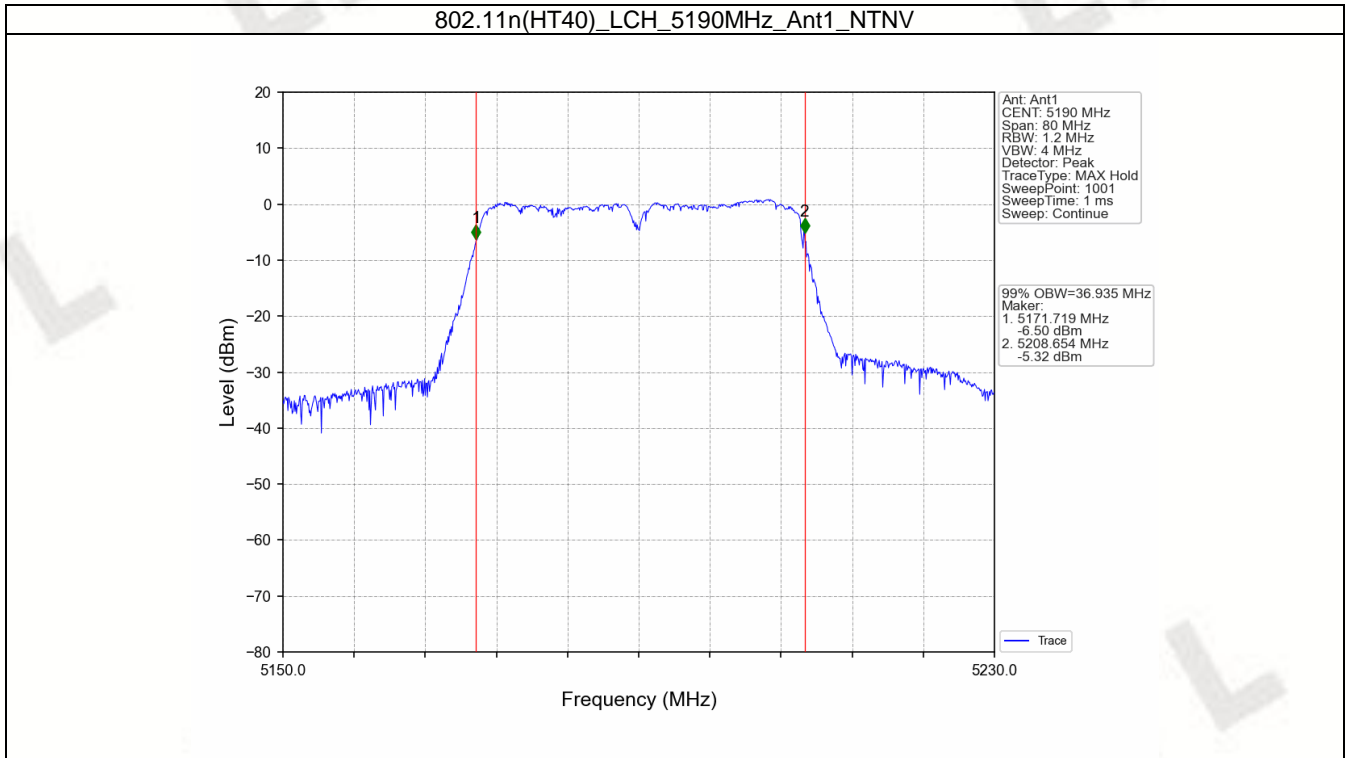


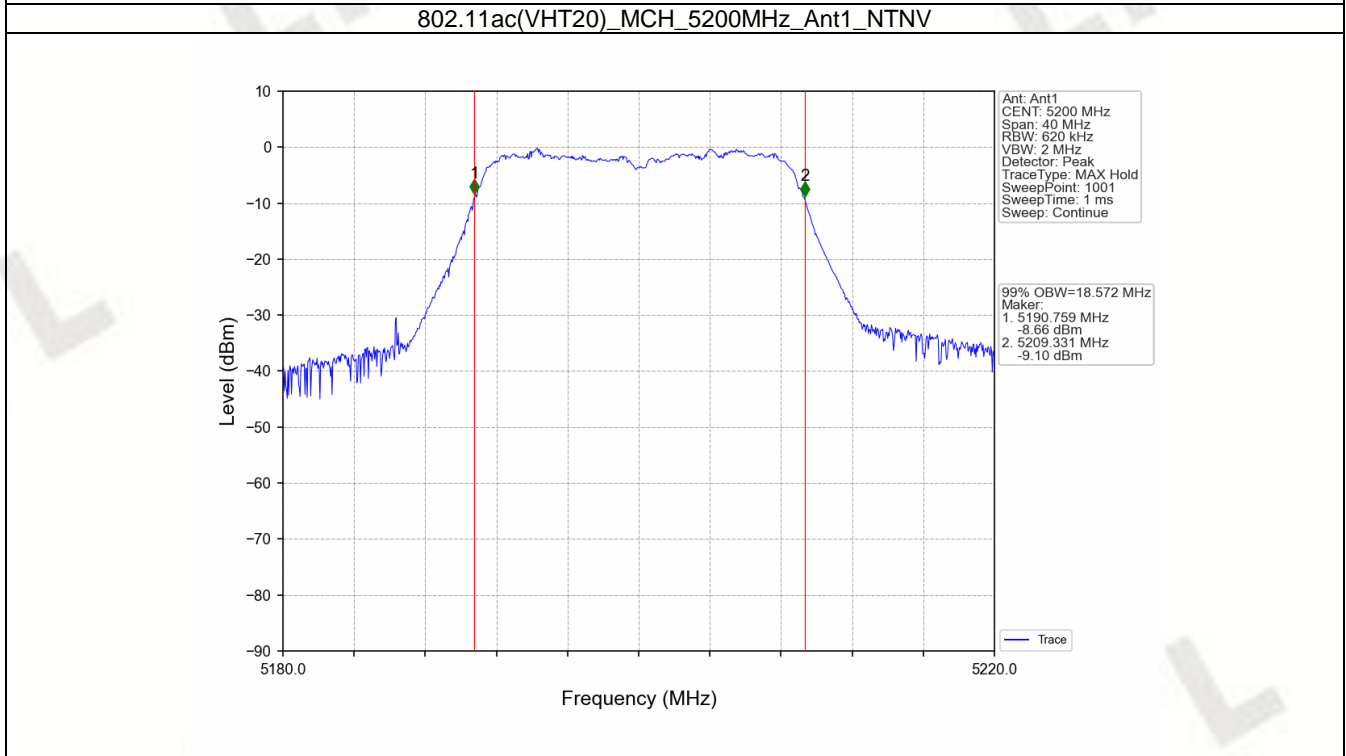
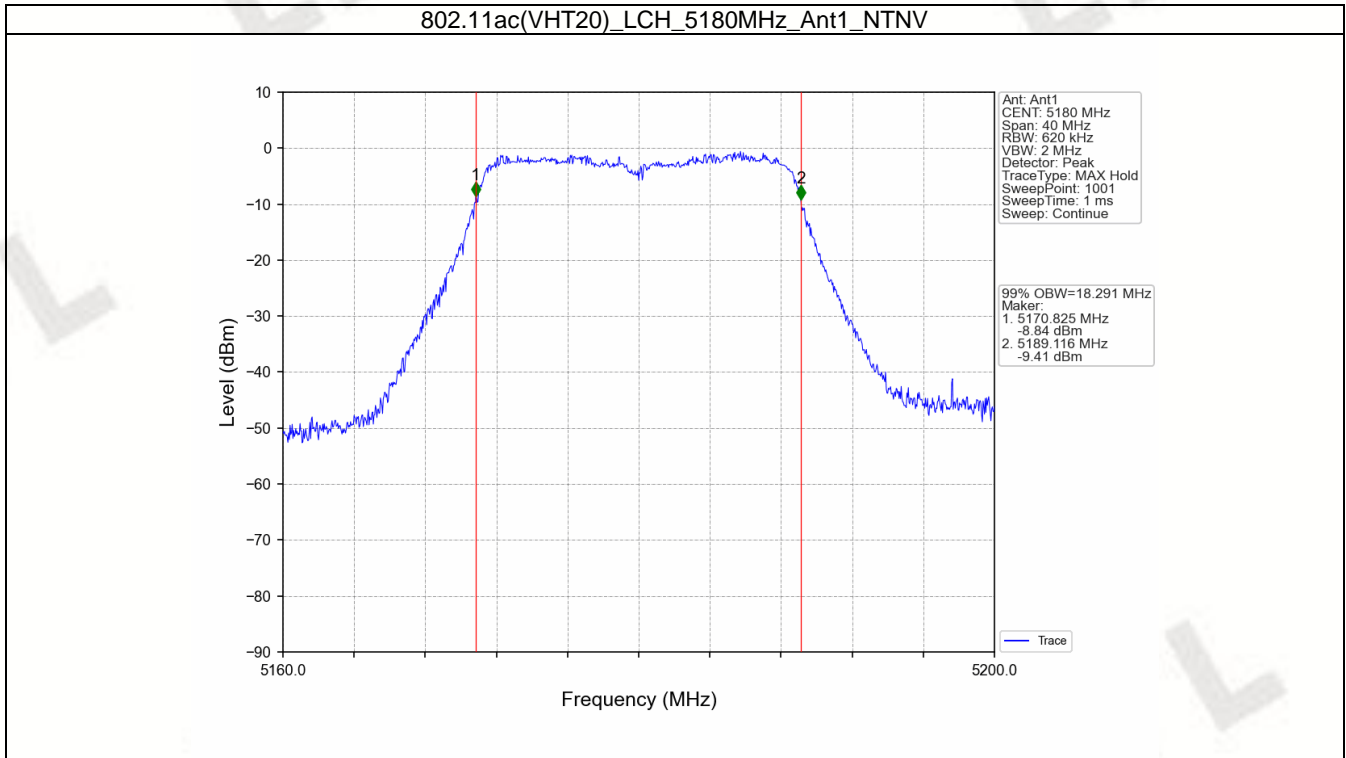
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV

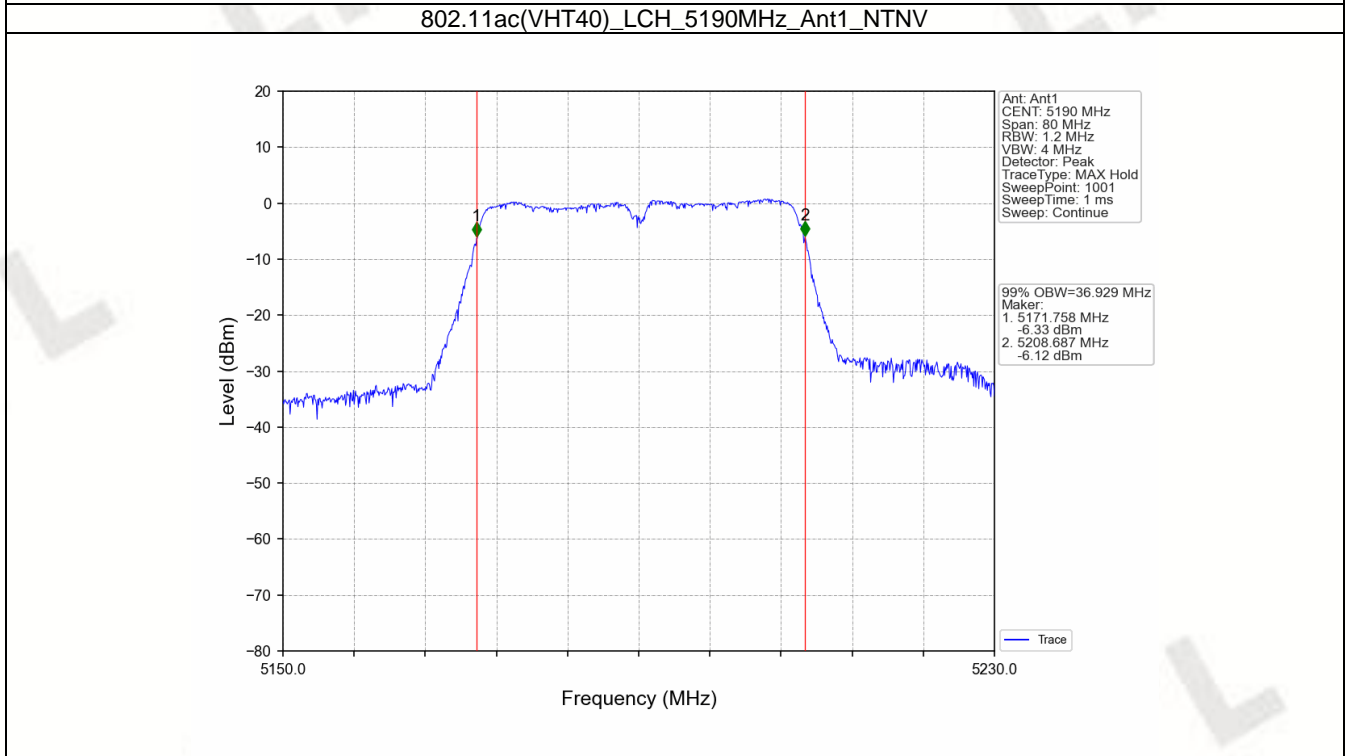
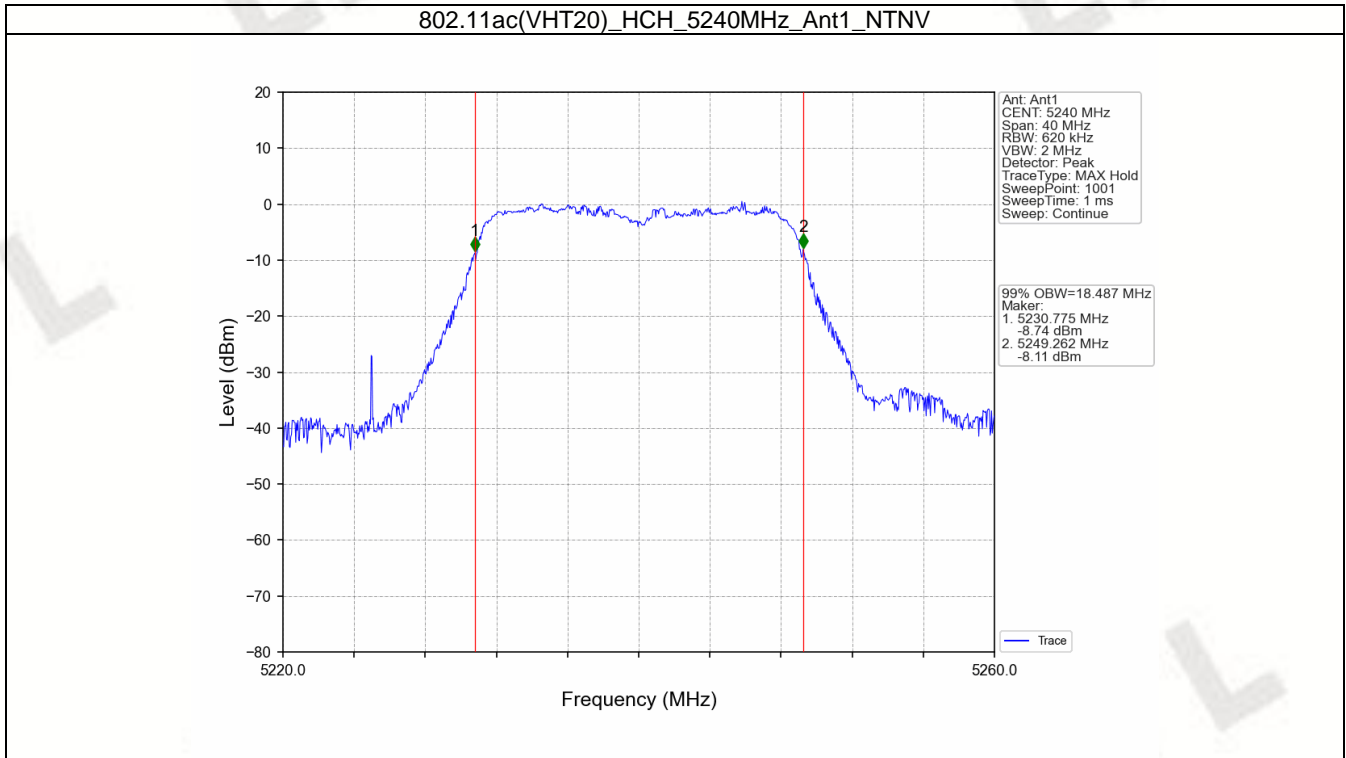


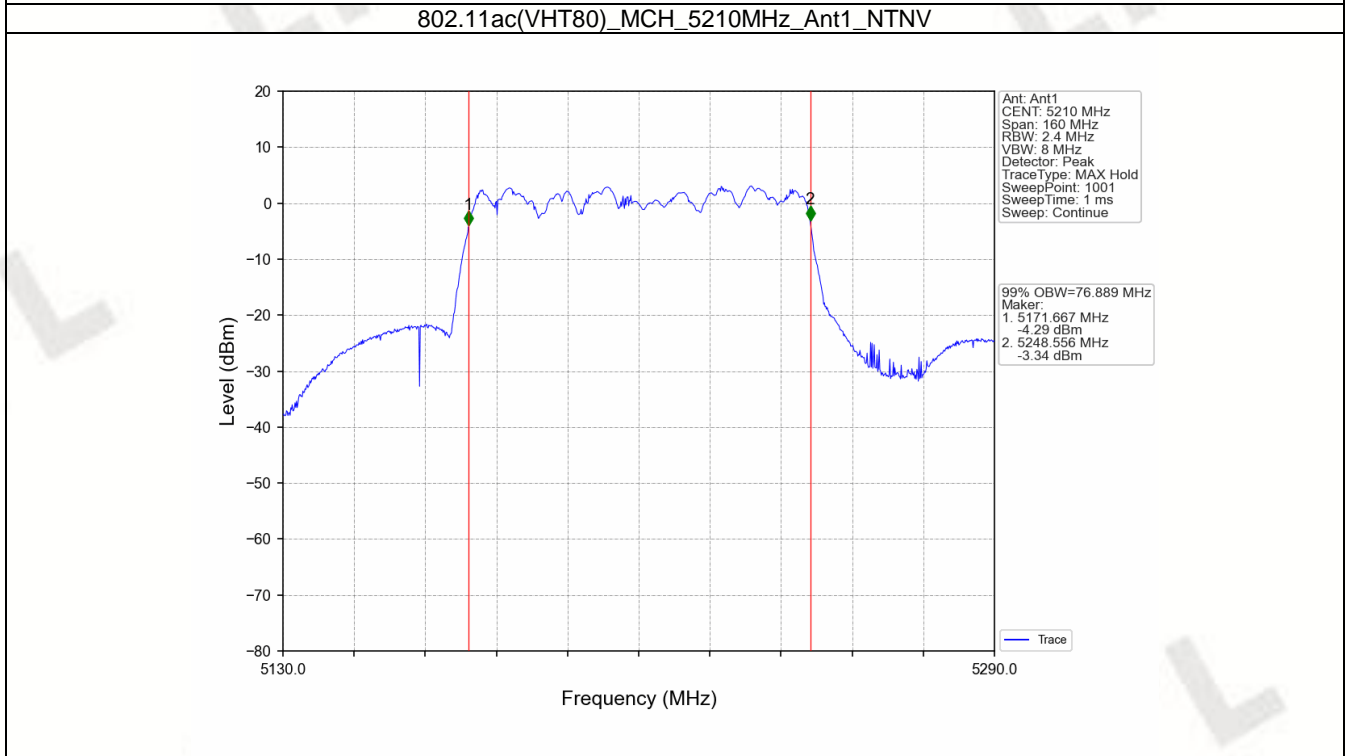
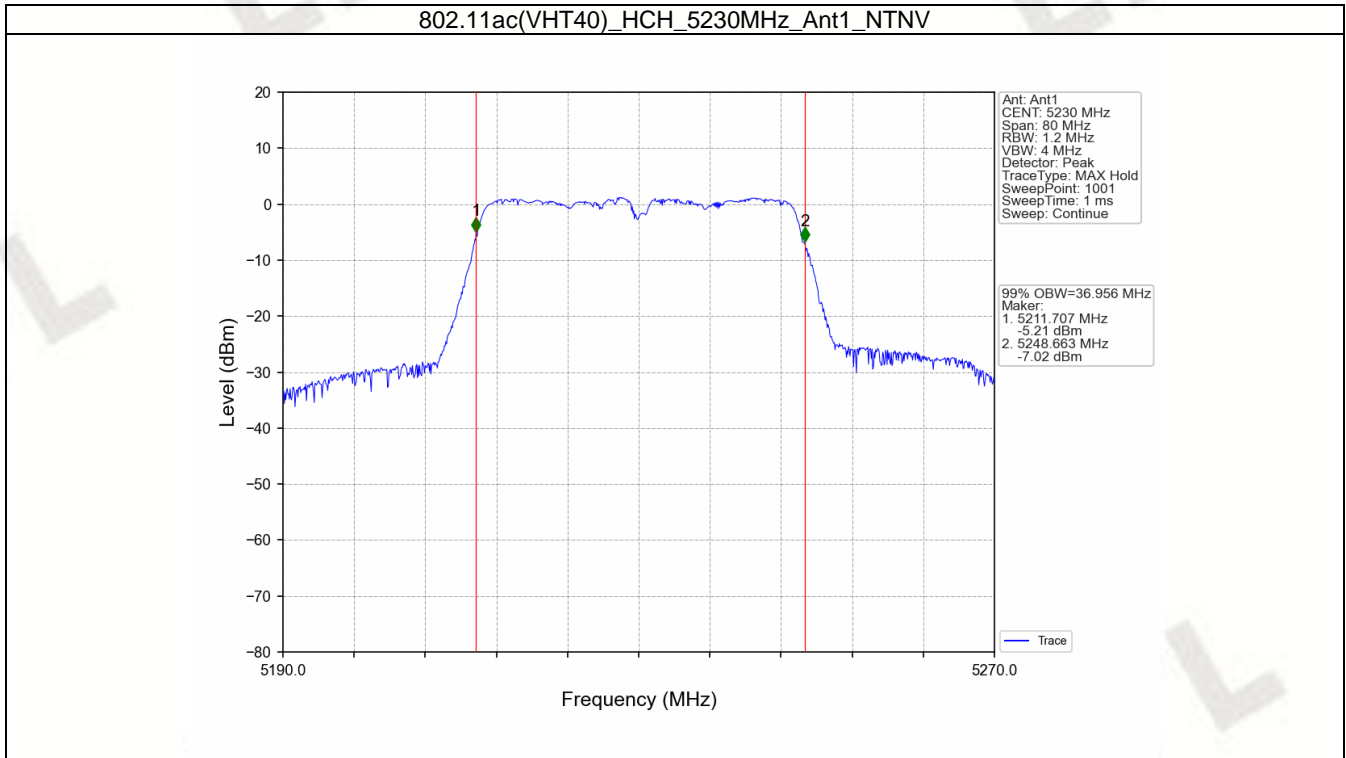
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV











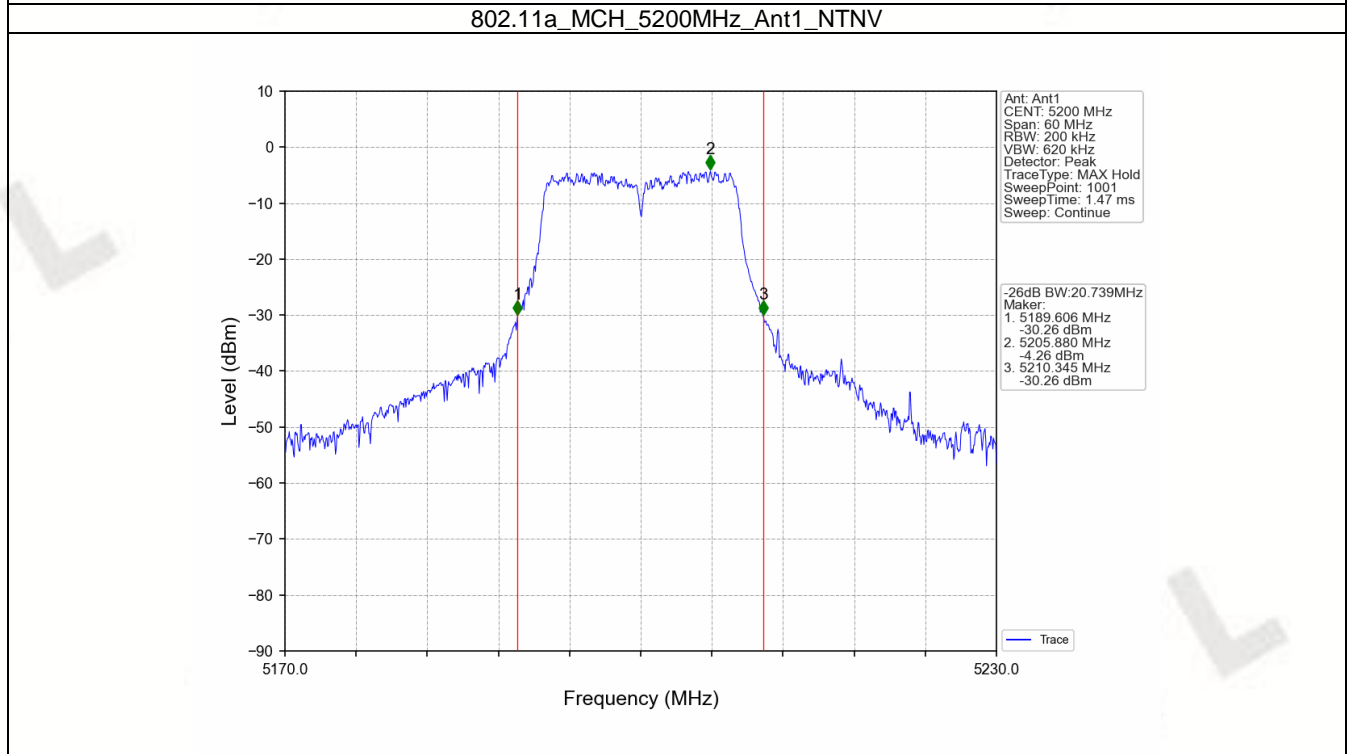
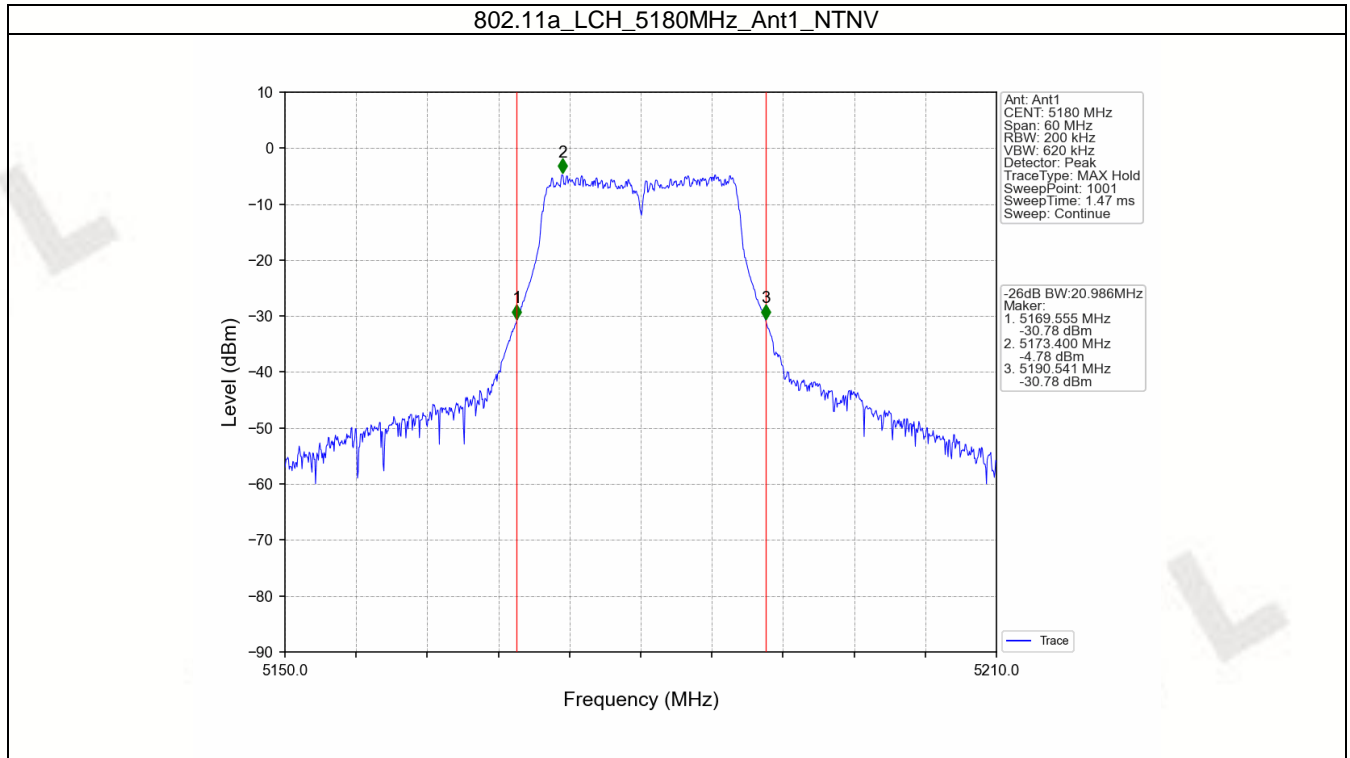


## 1.2 26dB BW

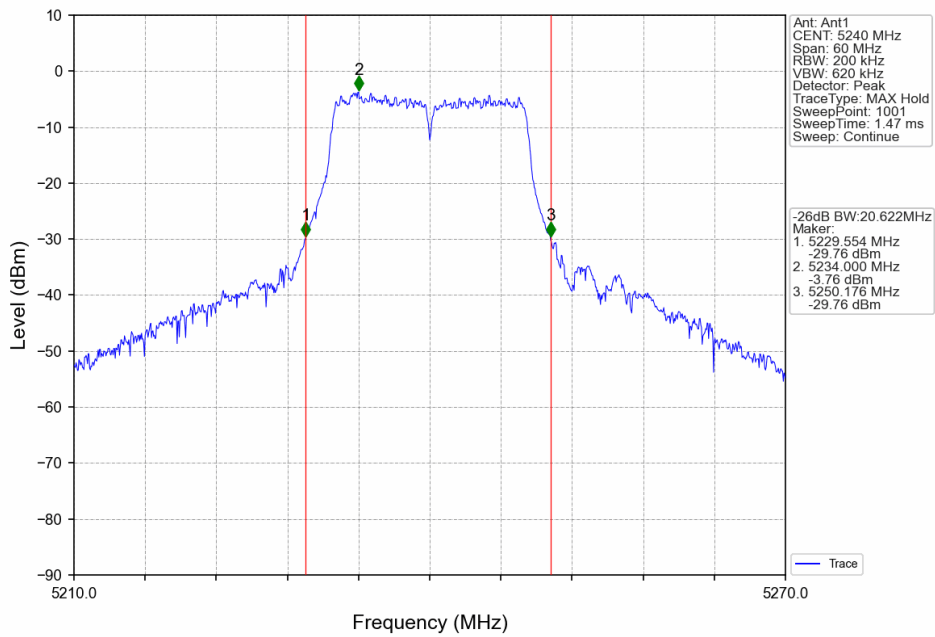
## 1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	20.986	/	Pass
		5200	1	20.739	/	Pass
		5240	1	20.622	/	Pass
802.11n (HT20)	SISO	5180	1	21.476	/	Pass
		5200	1	21.245	/	Pass
		5240	1	21.216	/	Pass
802.11n (HT40)	SISO	5190	1	41.627	/	Pass
		5230	1	41.757	/	Pass
802.11ac (VHT20)	SISO	5180	1	20.914	/	Pass
		5200	1	21.367	/	Pass
		5240	1	21.311	/	Pass
802.11ac (VHT40)	SISO	5190	1	41.483	/	Pass
		5230	1	41.685	/	Pass
802.11ac (VHT80)	SISO	5210	1	82.990	/	Pass

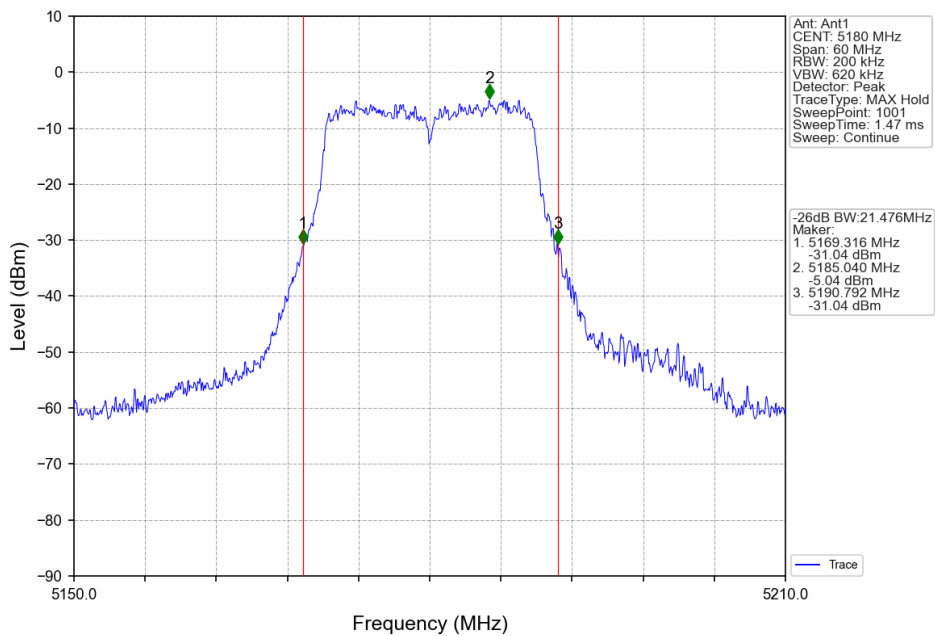
1.2.2 Test Graph



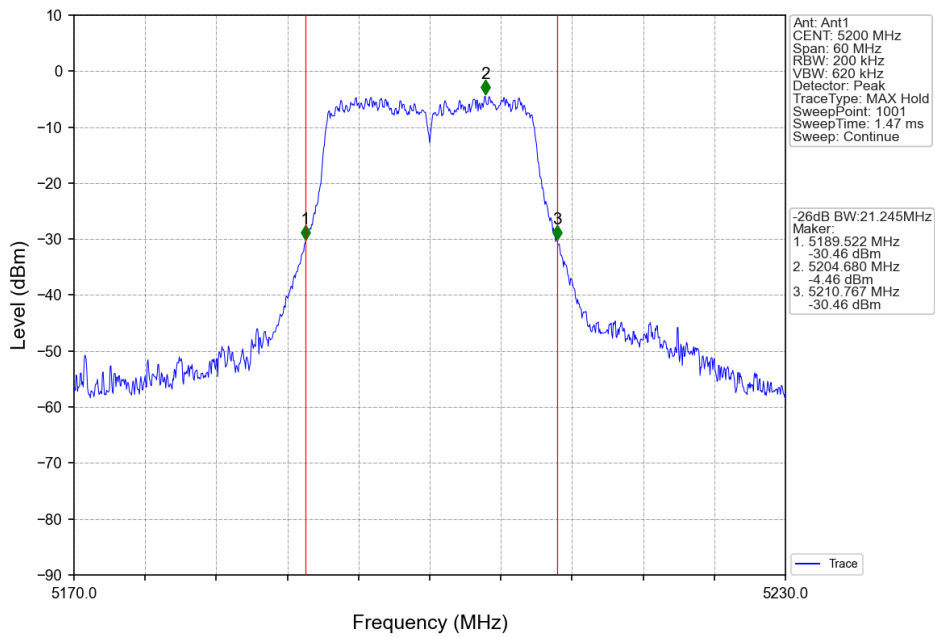
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



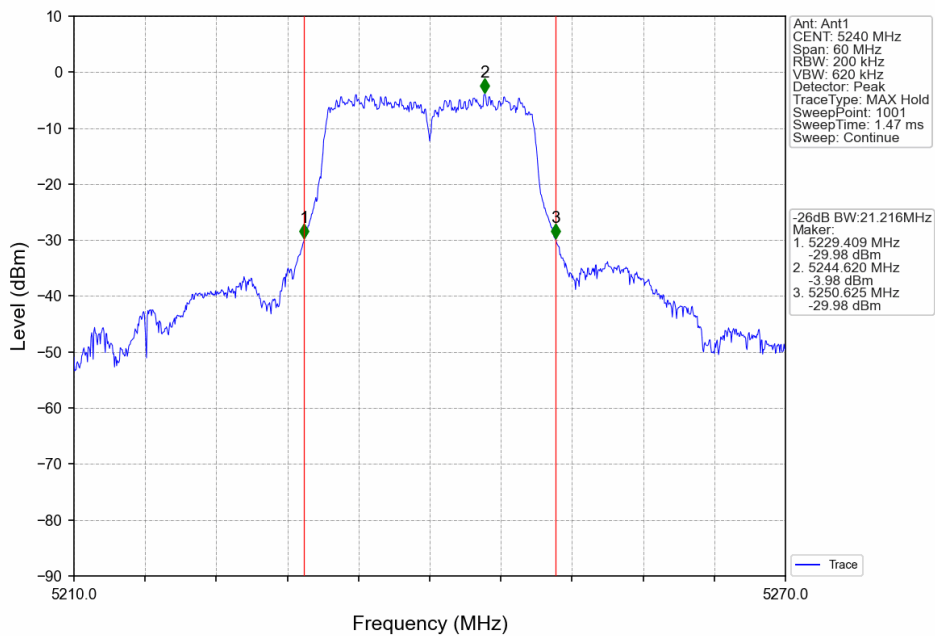
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV

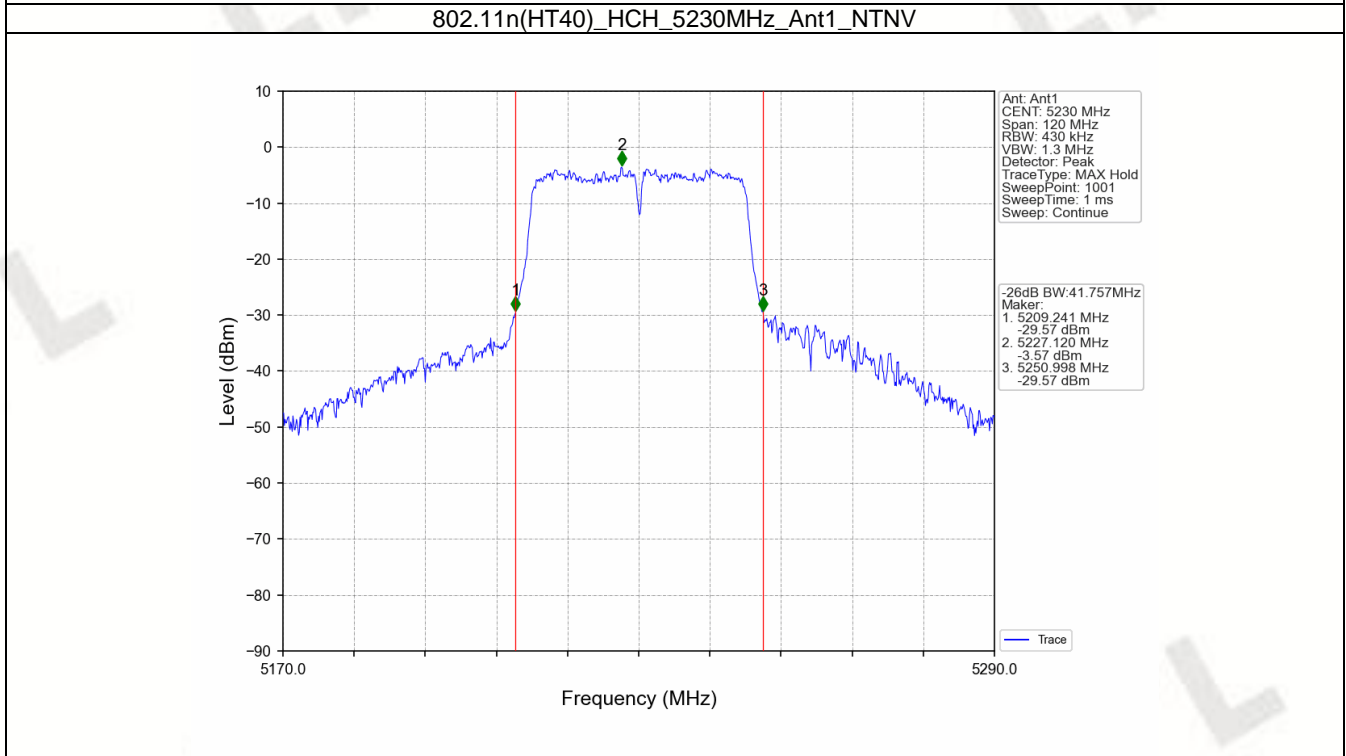
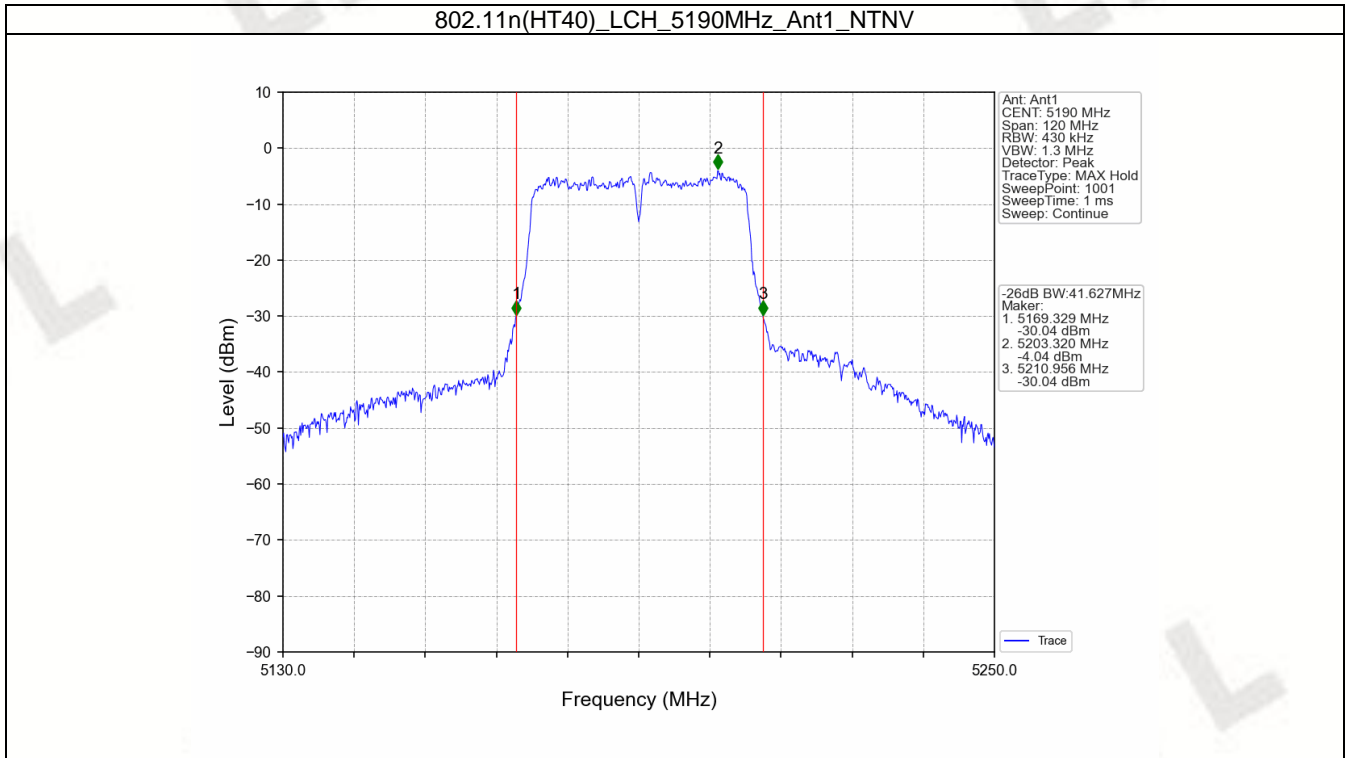


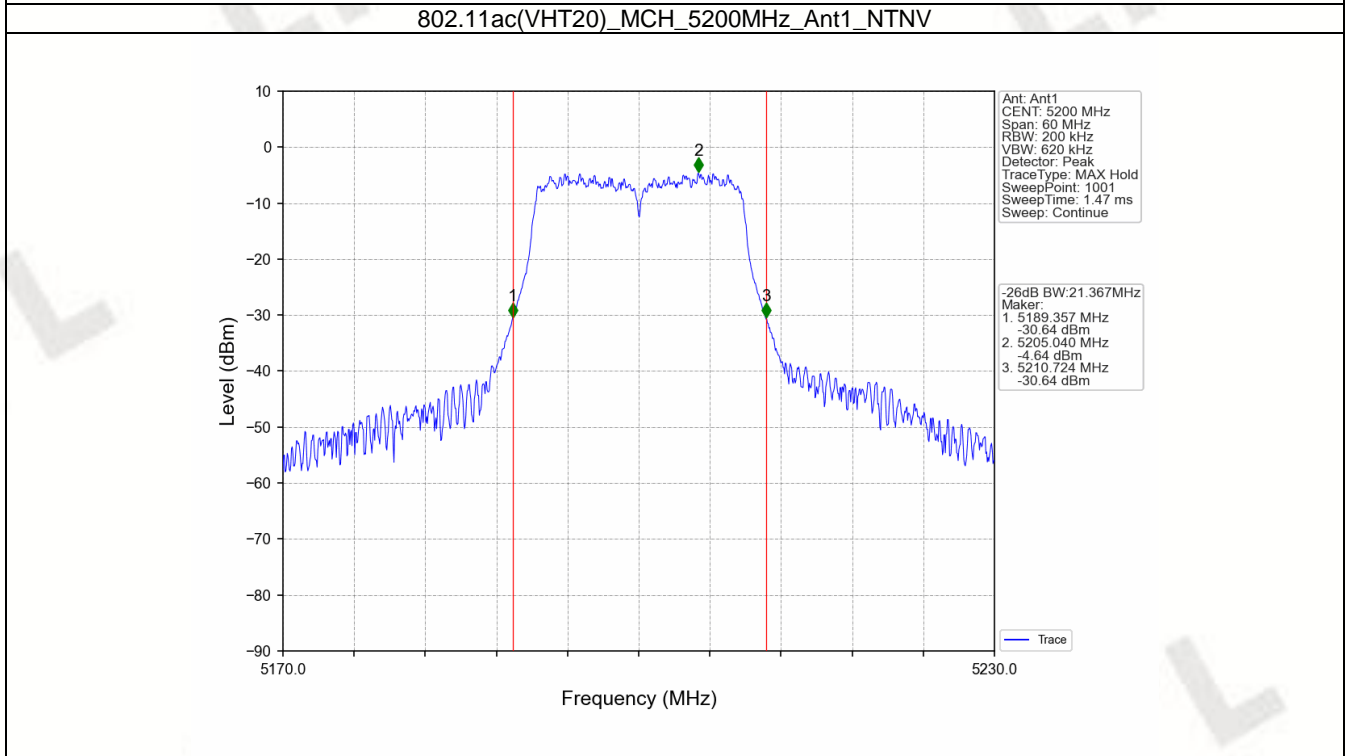
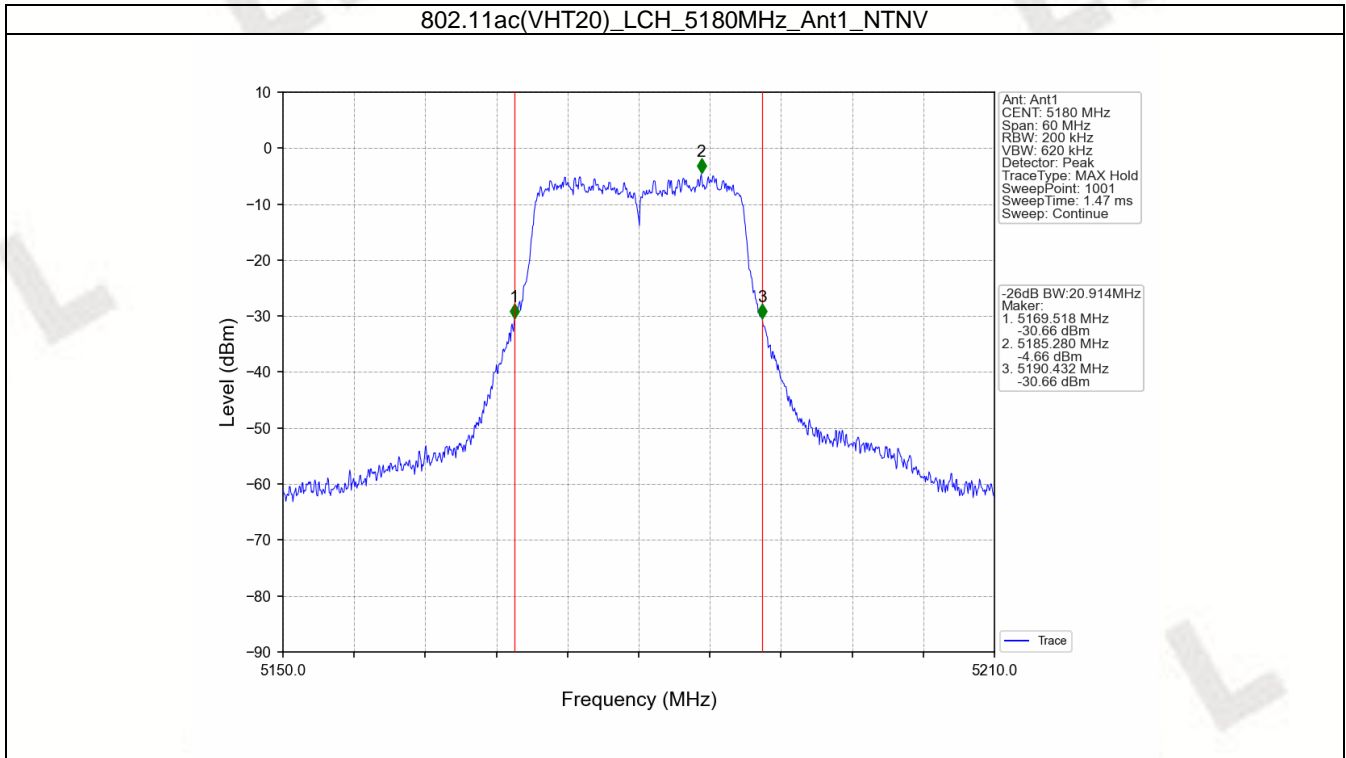
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV

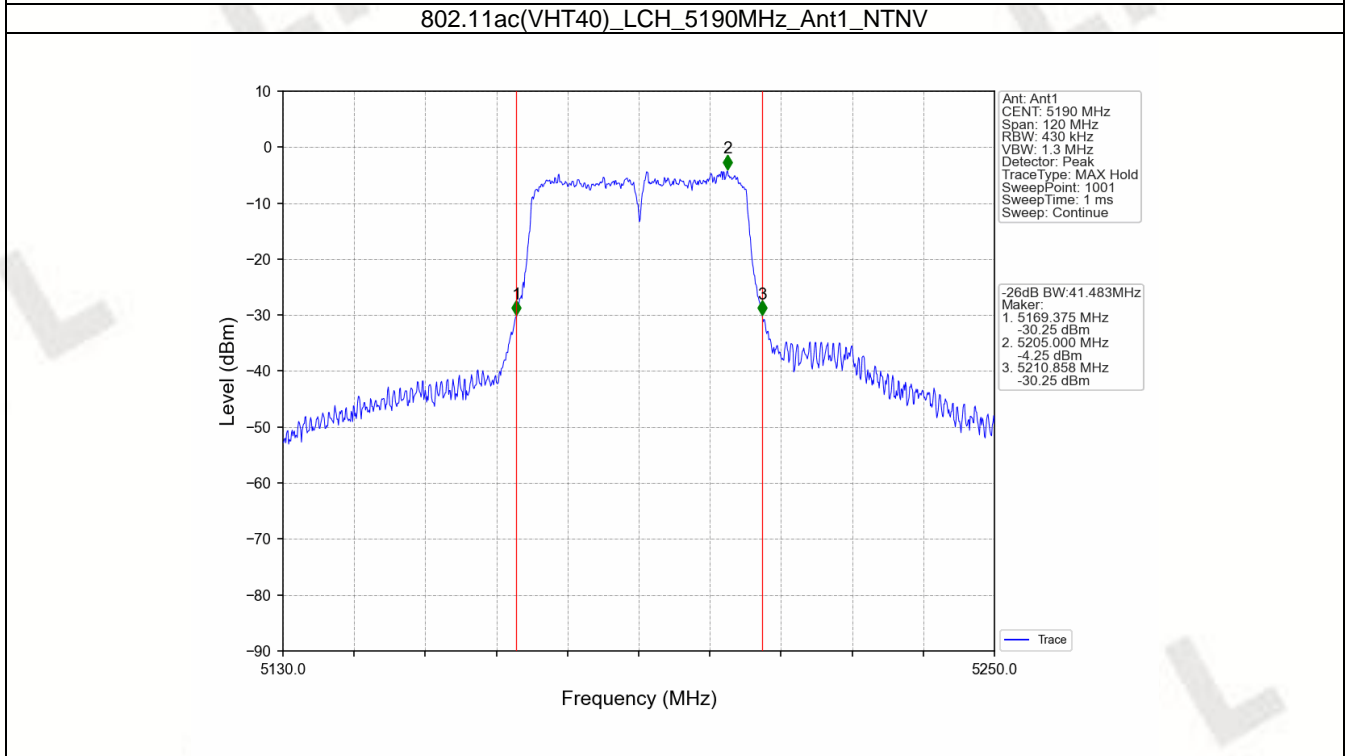
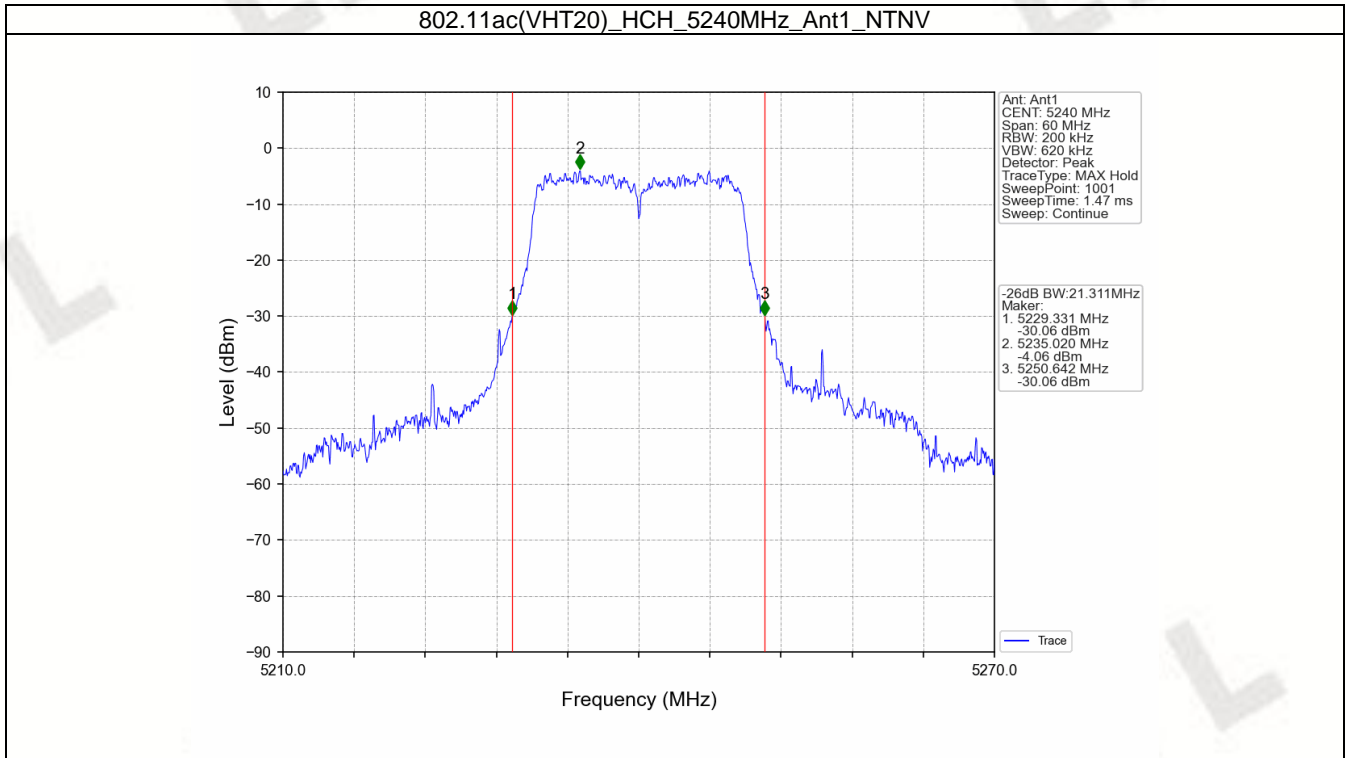


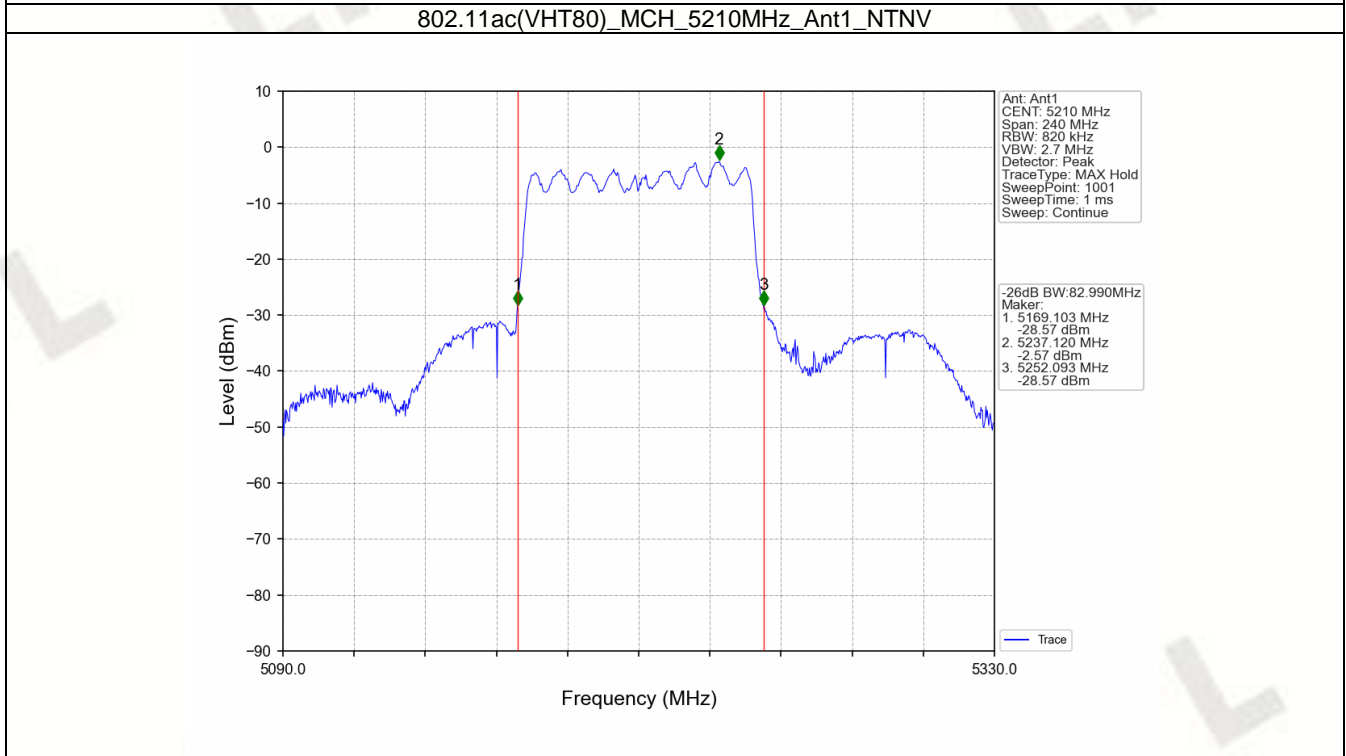
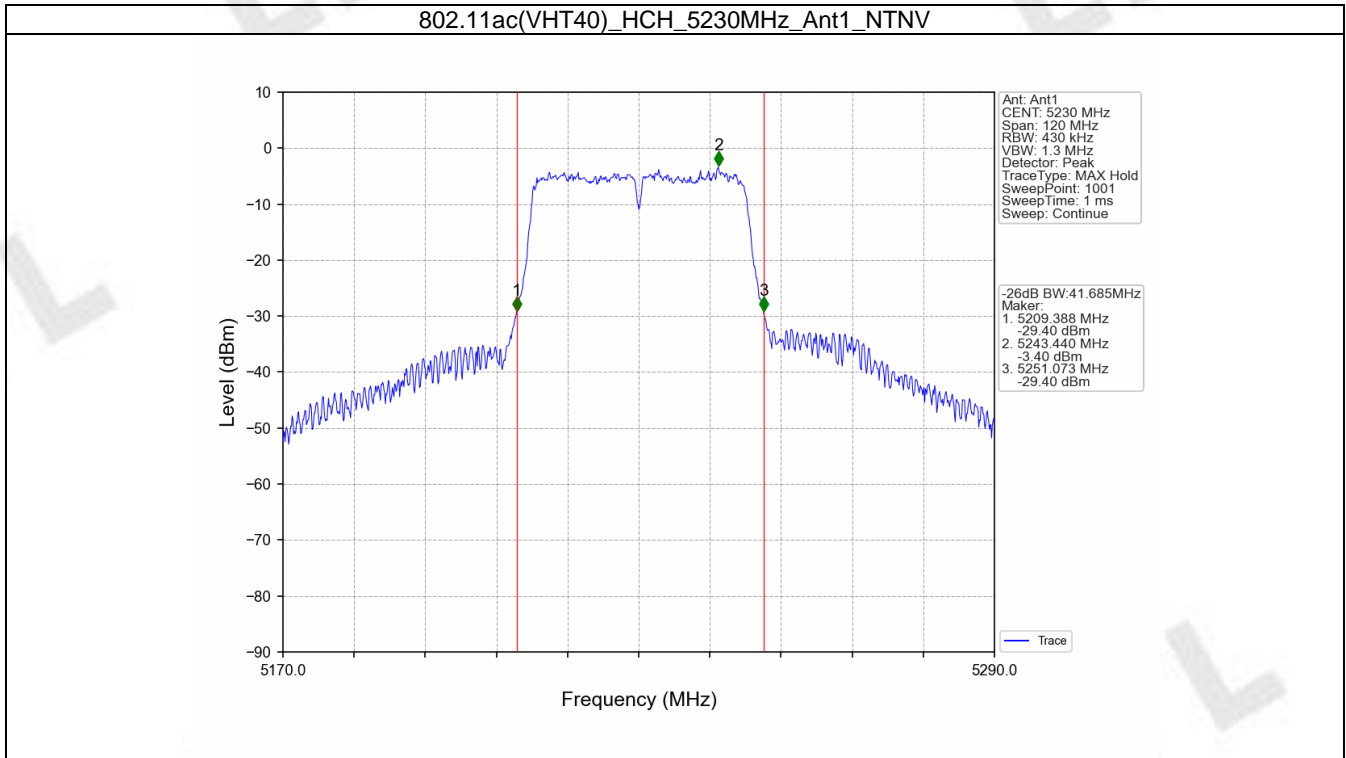
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV













## 2. Maximum Conducted Output Power

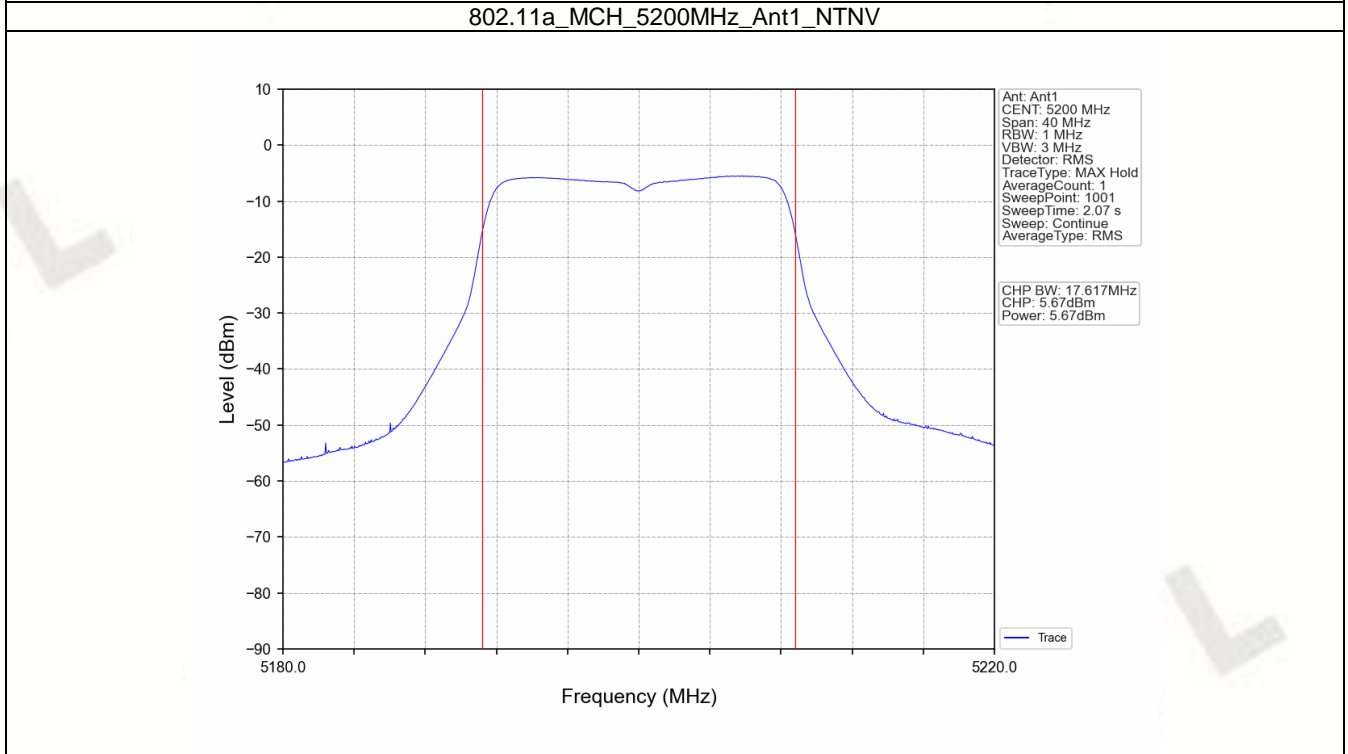
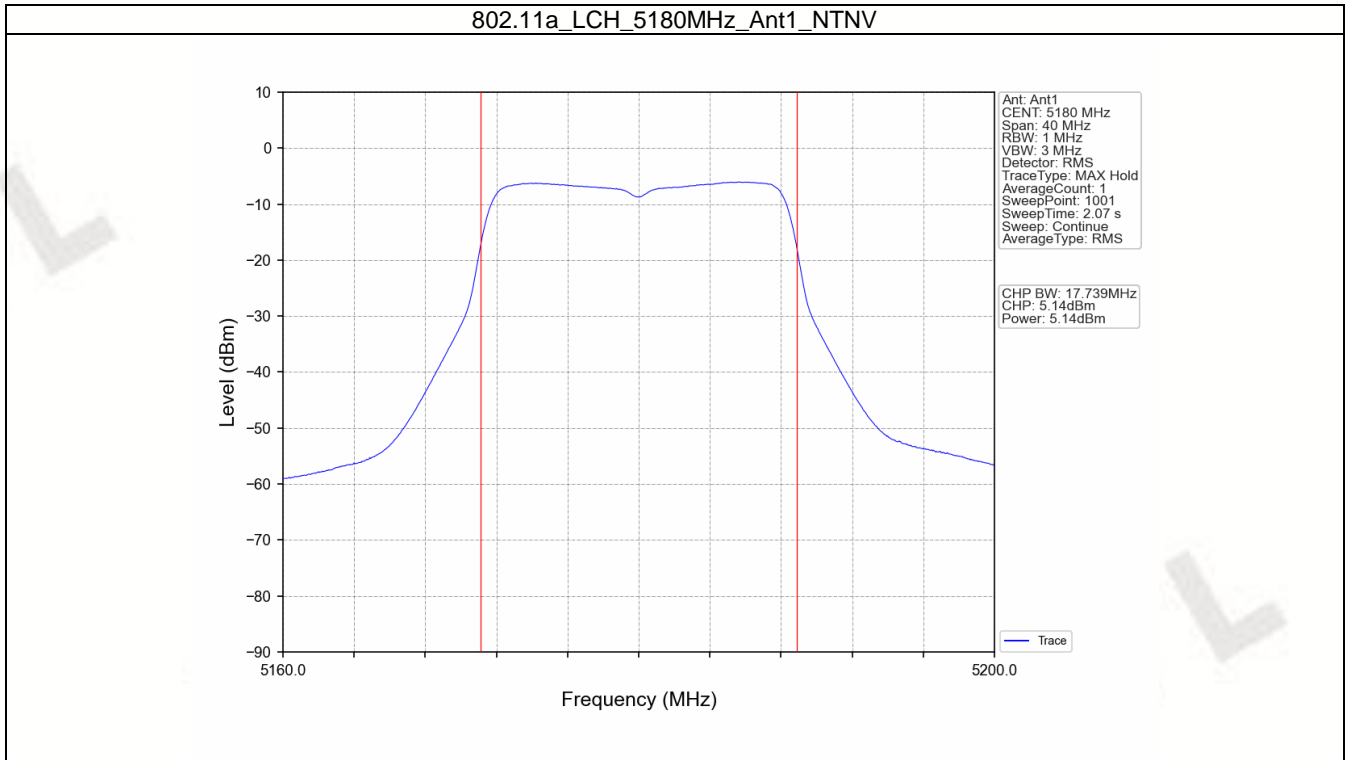
### 2.1 Power

#### 2.1.1 Test Result

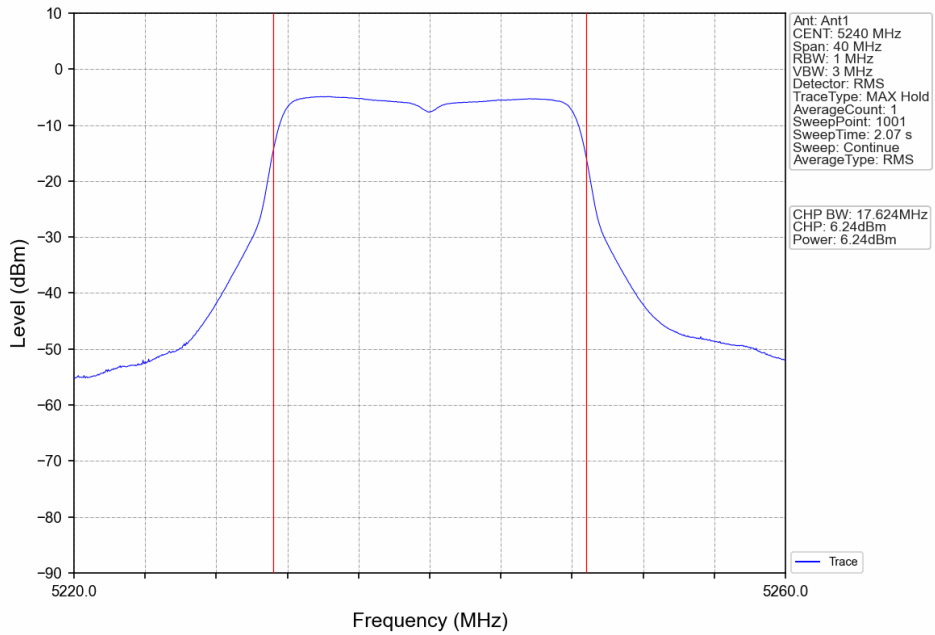
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	5.14	<=22.77	Pass
		5200	5.67	<=22.77	Pass
		5240	6.24	<=22.77	Pass
802.11n (HT20)	SISO	5180	4.91	<=22.77	Pass
		5200	5.46	<=22.77	Pass
		5240	6.09	<=22.77	Pass
802.11n (HT40)	SISO	5190	5.52	<=22.77	Pass
		5230	6.47	<=22.77	Pass
802.11ac (VHT20)	SISO	5180	4.87	<=22.77	Pass
		5200	5.40	<=22.77	Pass
		5240	6.01	<=22.77	Pass
802.11ac (VHT40)	SISO	5190	5.50	<=22.77	Pass
		5230	6.41	<=22.77	Pass
802.11ac (VHT80)	SISO	5210	6.23	<=22.77	Pass

Note1: Antenna Gain: Ant1: 7.21dBi;

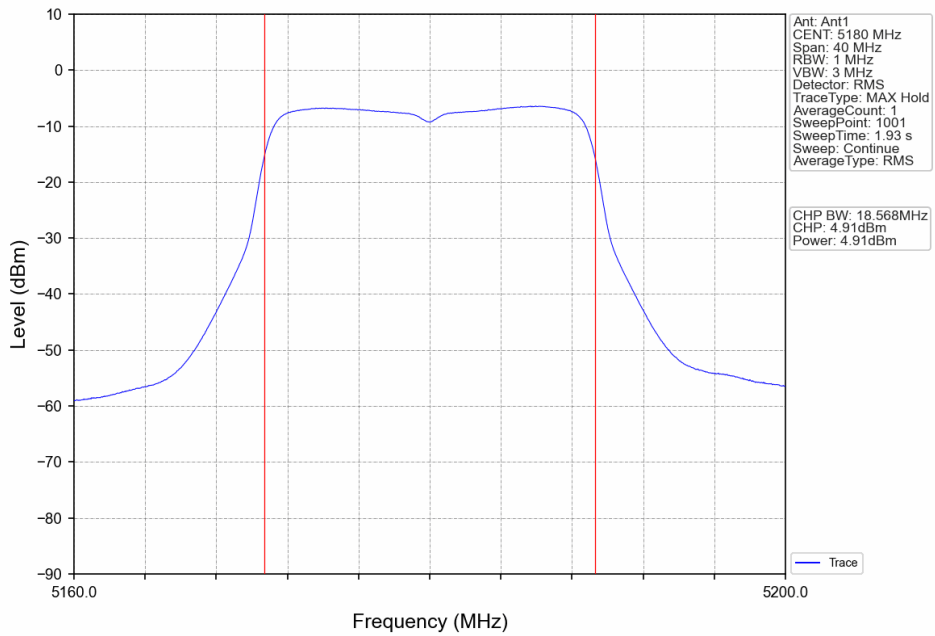
2.1.2 Test Graph



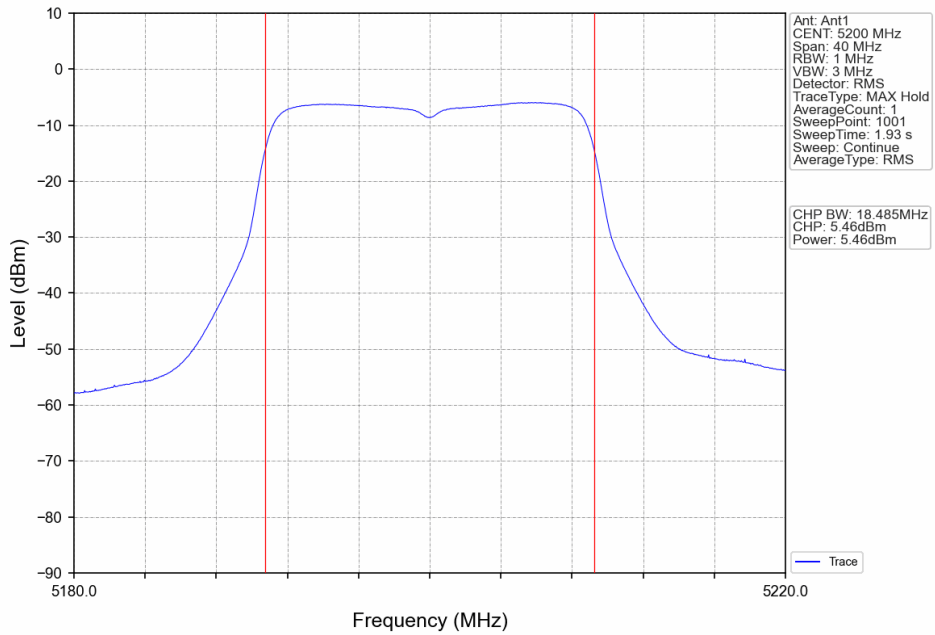
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



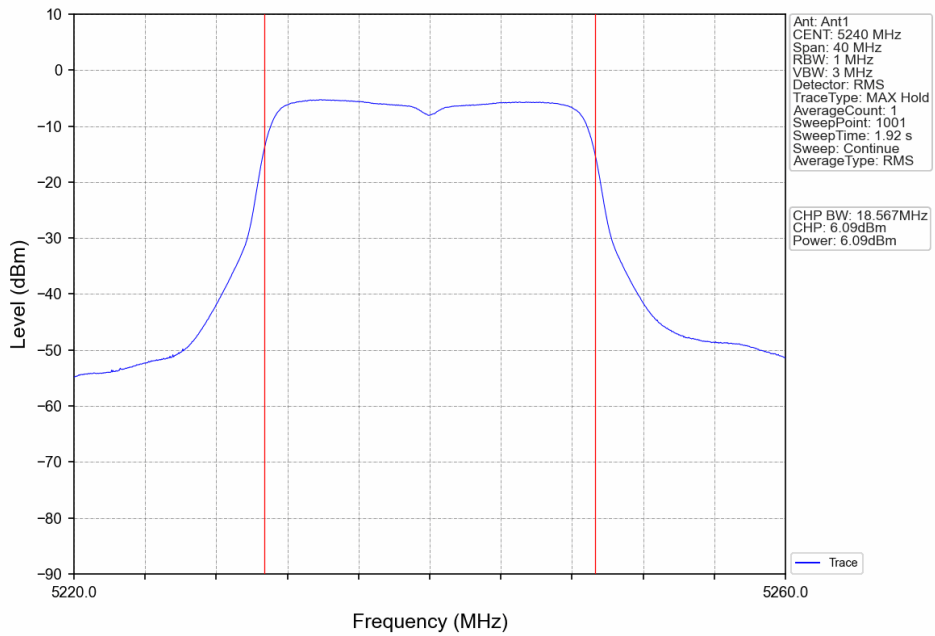
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV

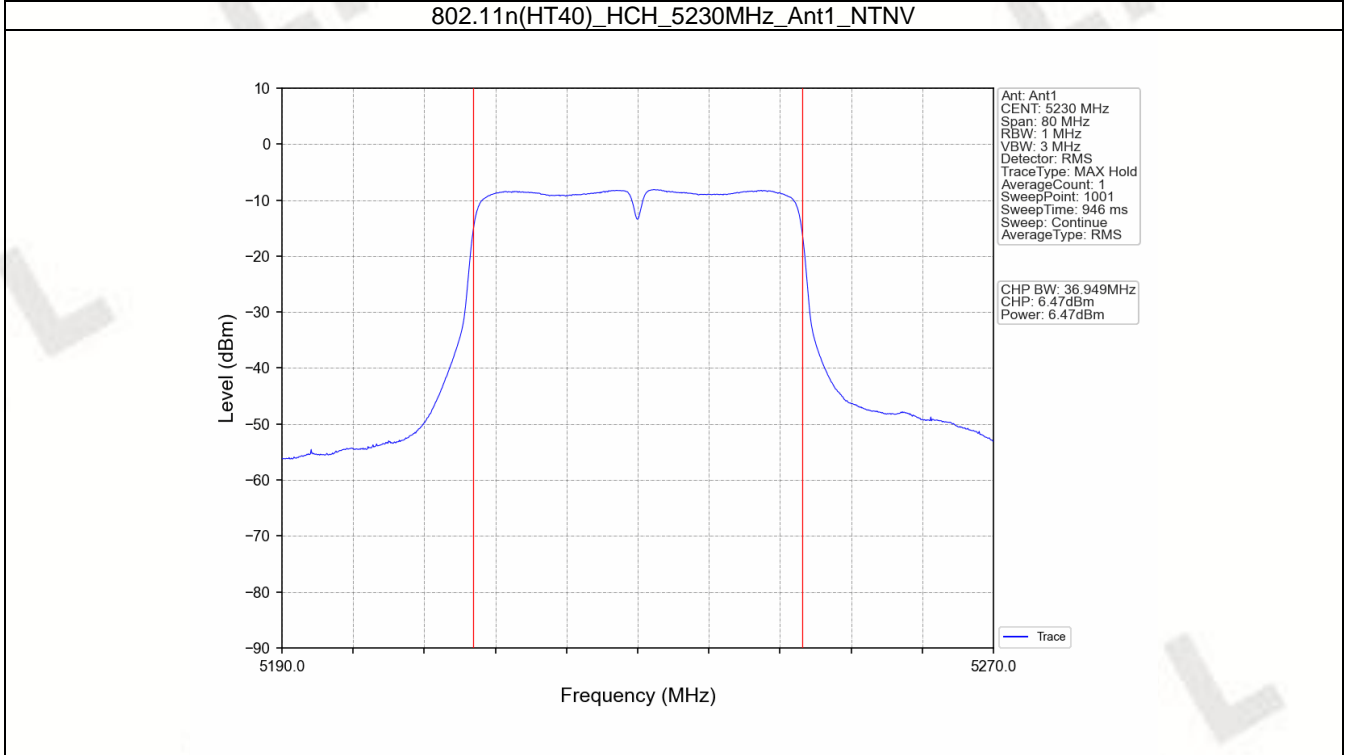
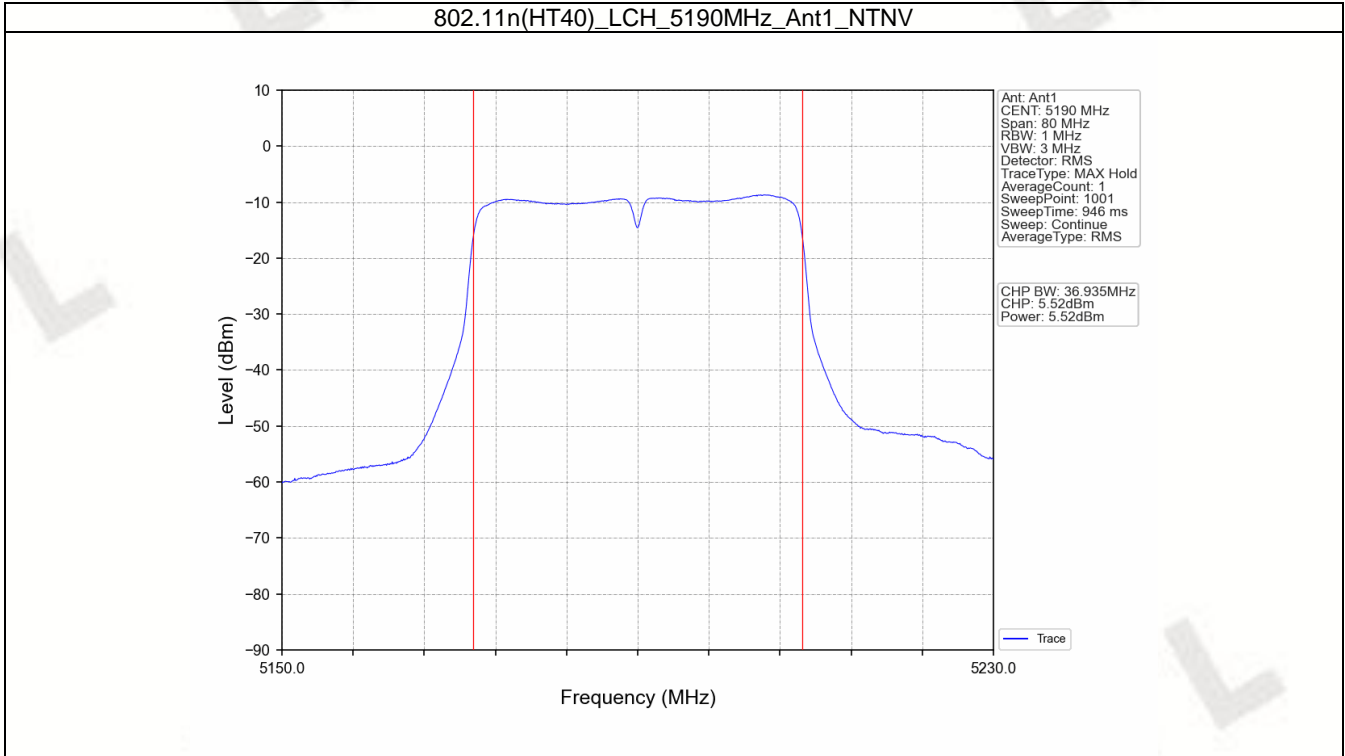


802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV

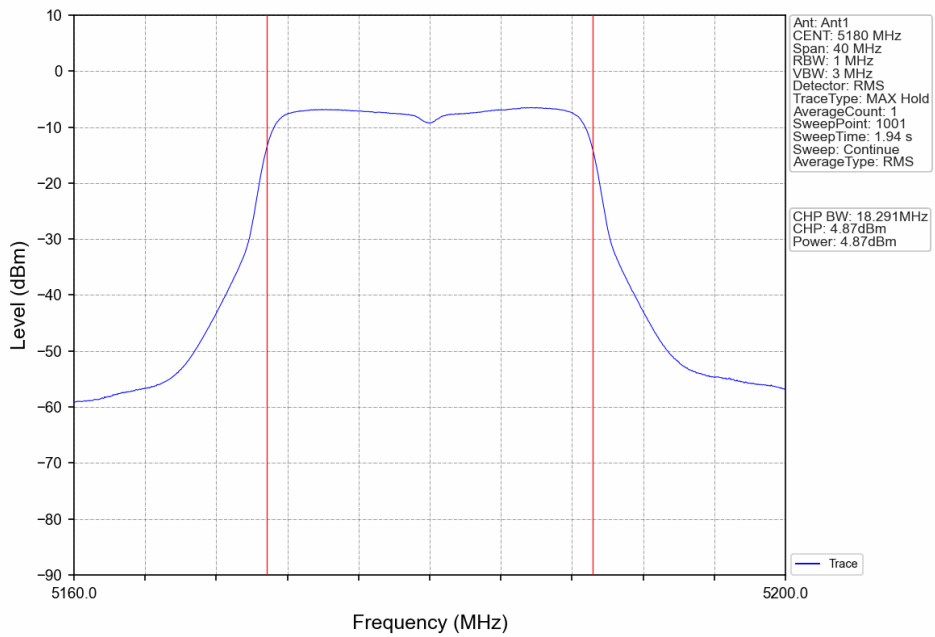


802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV

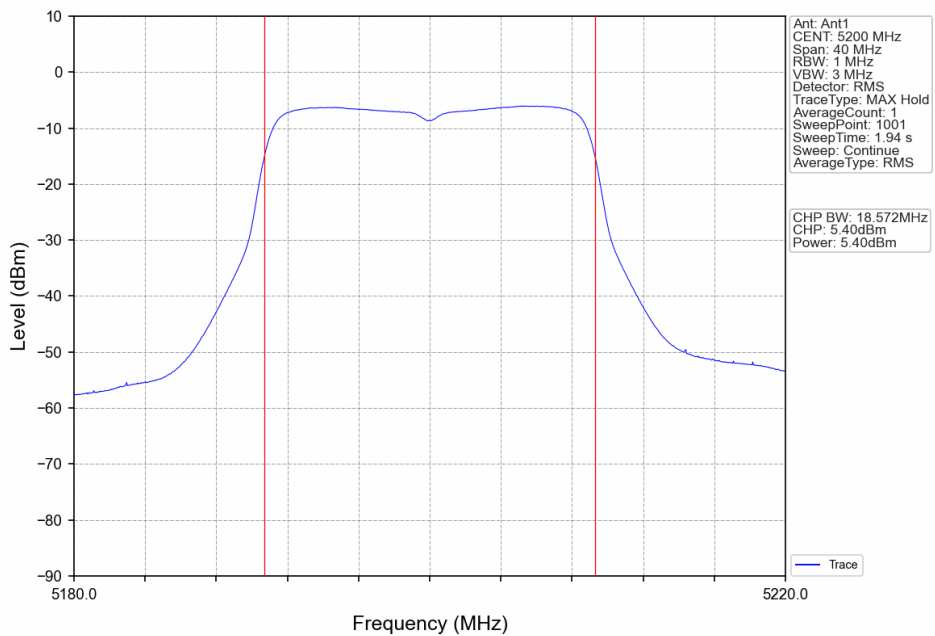




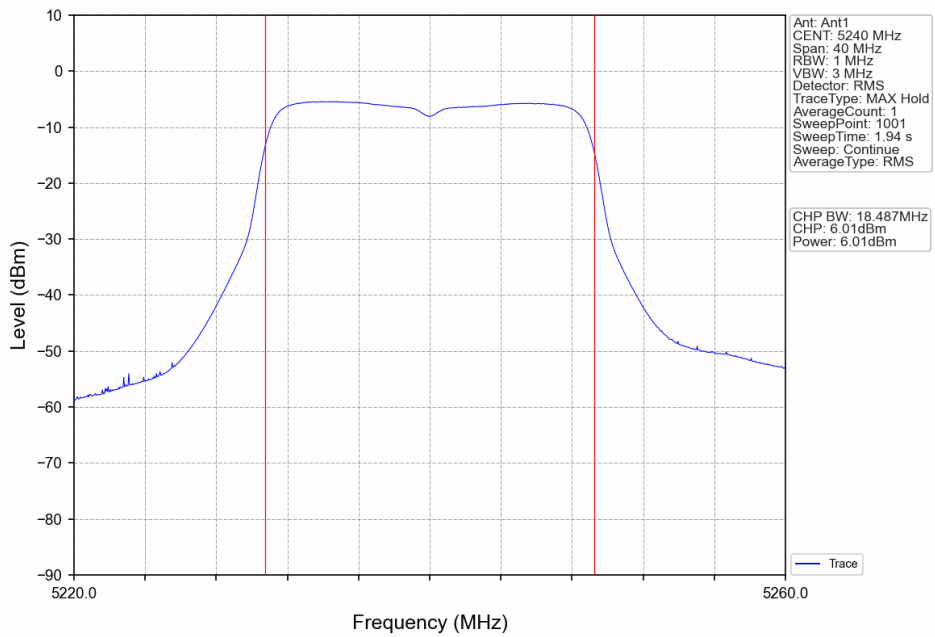
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



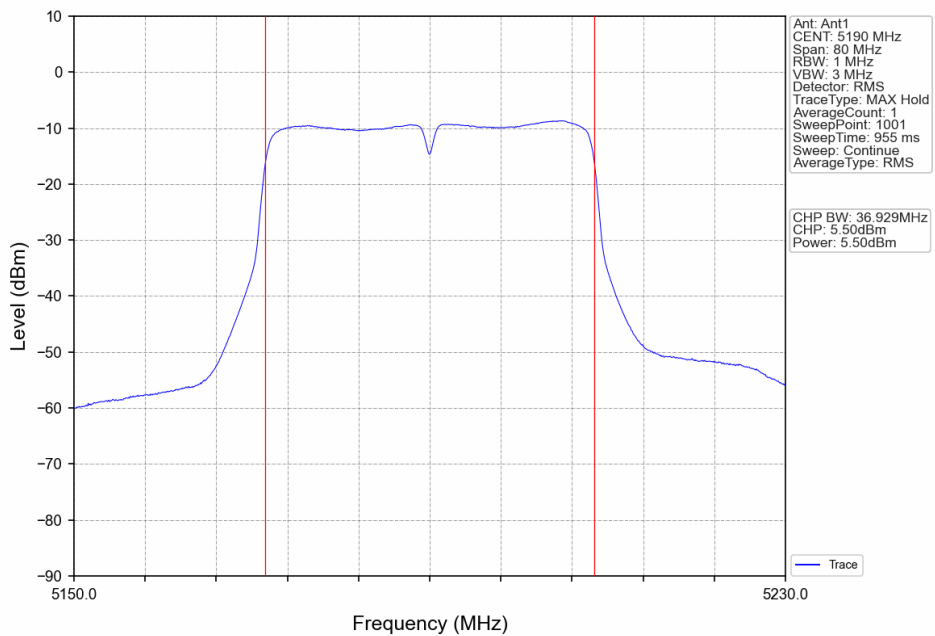
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



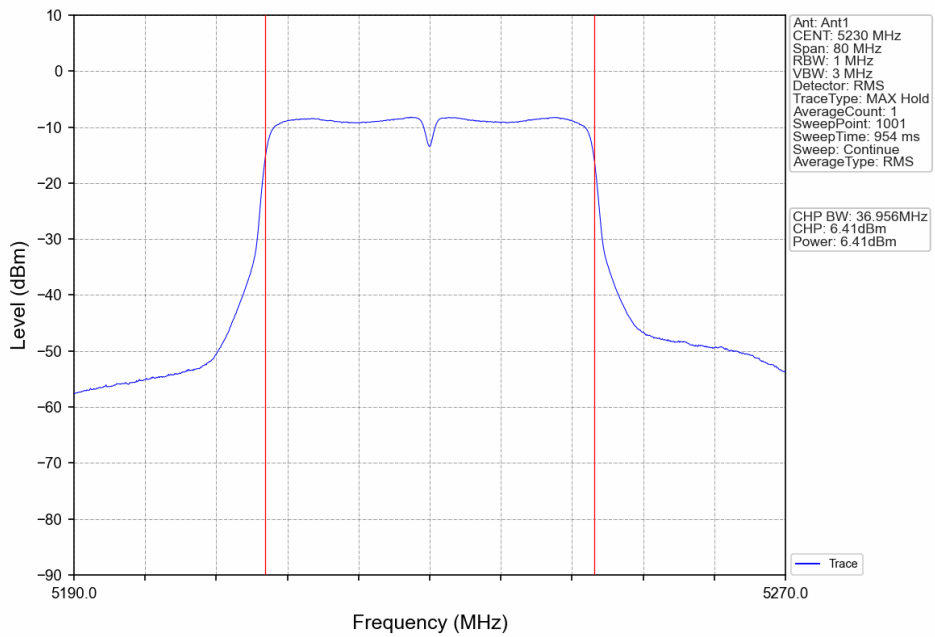
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



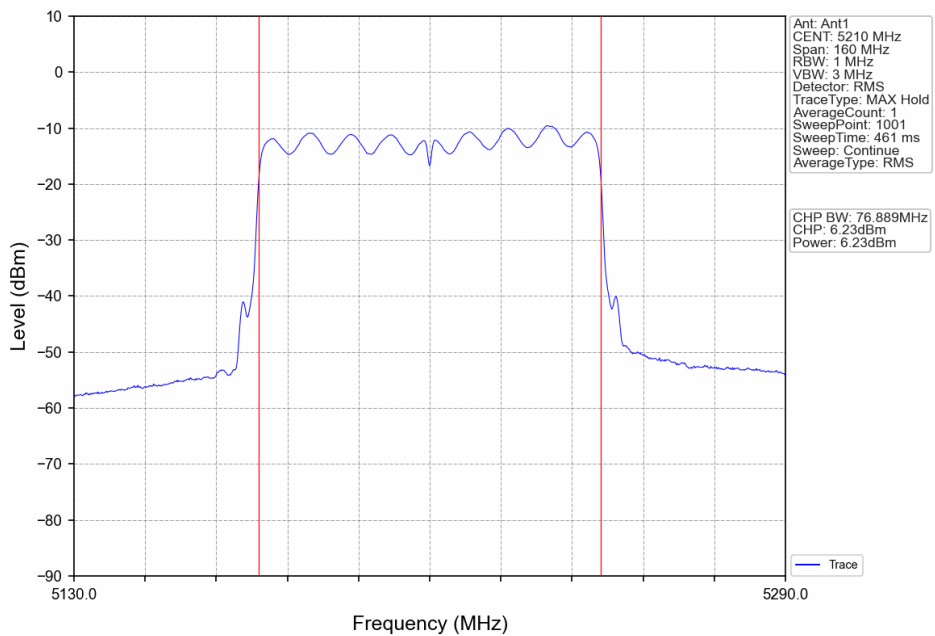
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV





### 3. Maximum Power Spectral Density

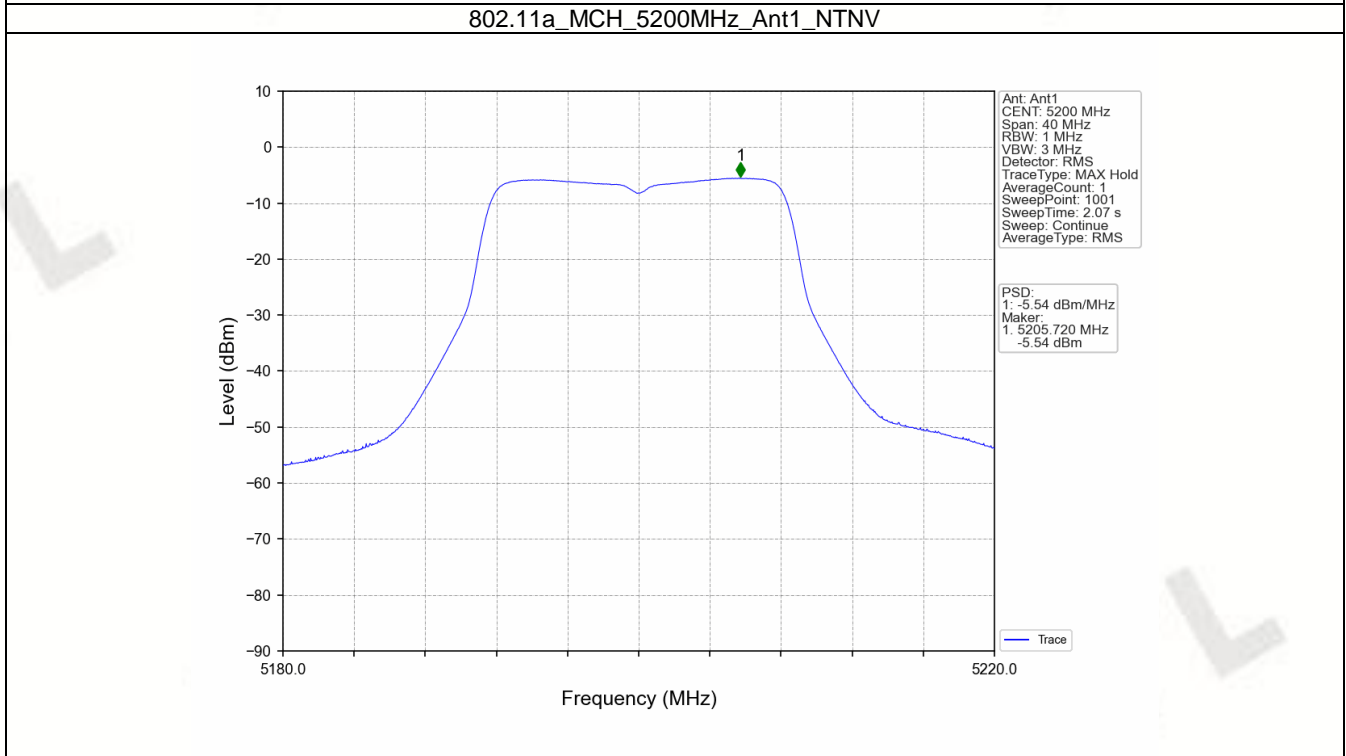
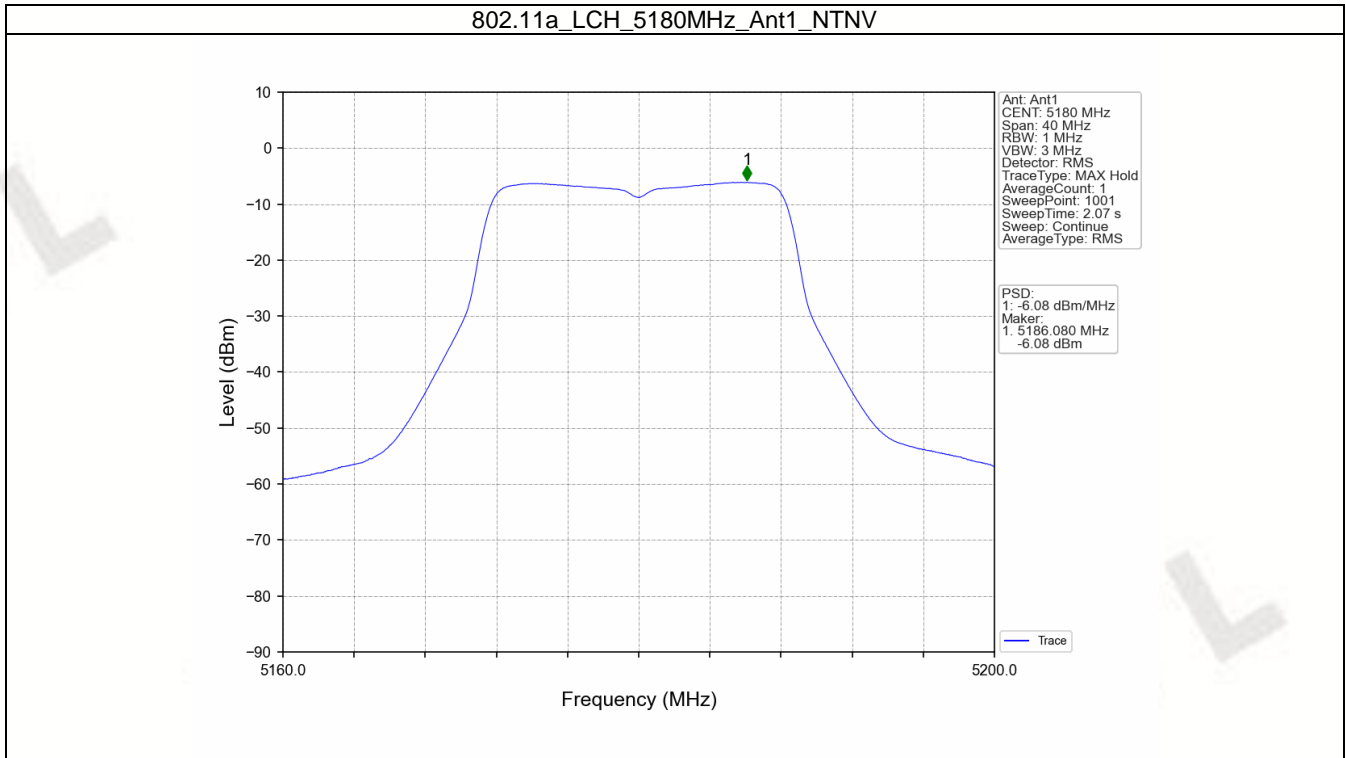
#### 3.1 PSD

##### 3.1.1 Test Result

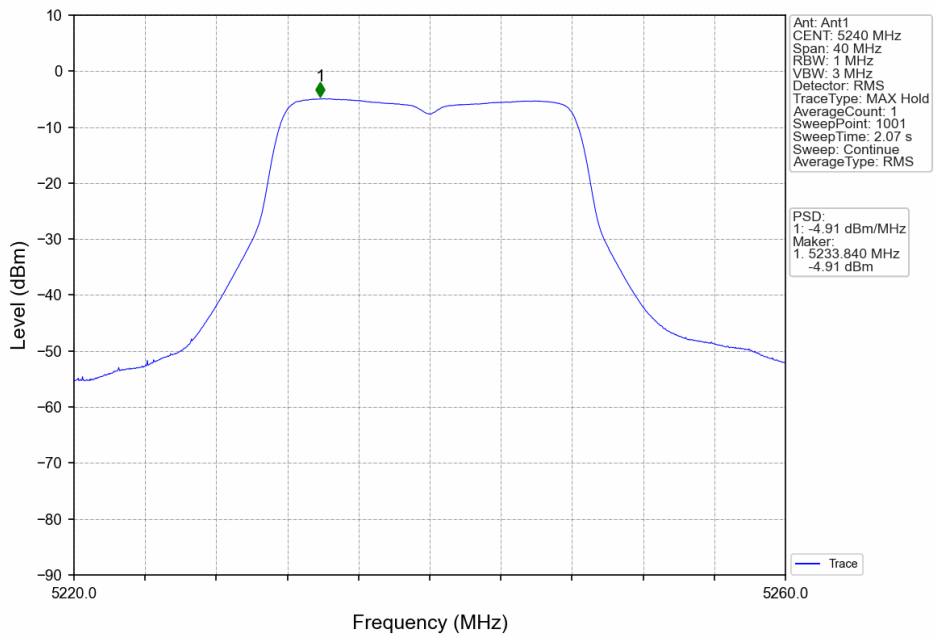
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-6.08	<=9.79	Pass
		5200	-5.54	<=9.79	Pass
		5240	-4.91	<=9.79	Pass
802.11n (HT20)	SISO	5180	-6.48	<=9.79	Pass
		5200	-5.98	<=9.79	Pass
		5240	-5.31	<=9.79	Pass
802.11n (HT40)	SISO	5190	-8.71	<=9.79	Pass
		5230	-8.14	<=9.79	Pass
802.11ac (VHT20)	SISO	5180	-6.53	<=9.79	Pass
		5200	-6.05	<=9.79	Pass
		5240	-5.43	<=9.79	Pass
802.11ac (VHT40)	SISO	5190	-8.72	<=9.79	Pass
		5230	-8.25	<=9.79	Pass
802.11ac (VHT80)	SISO	5210	-9.58	<=9.79	Pass

Note1: Antenna Gain: Ant1: 7.21dBi;

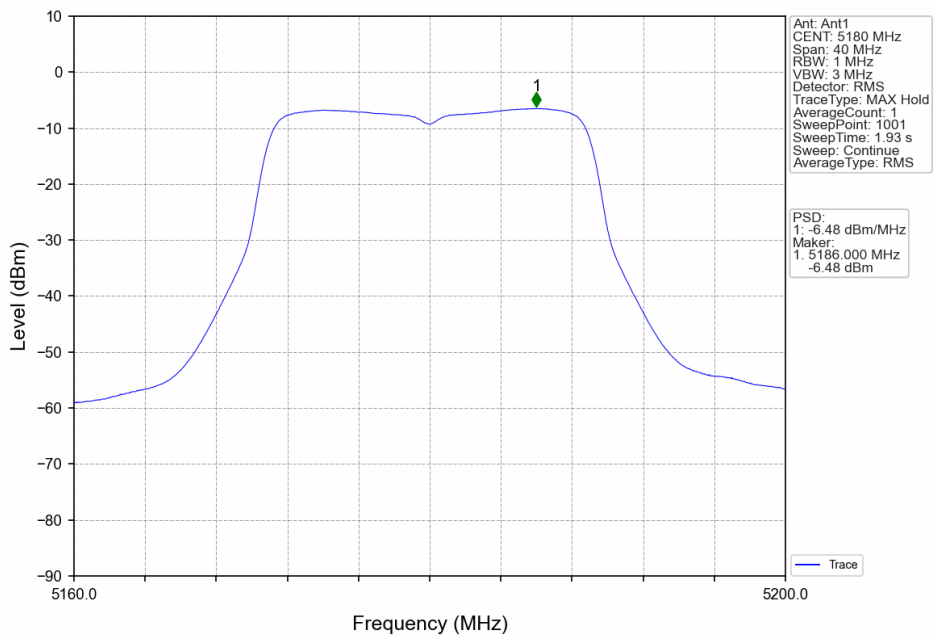
3.1.2 Test Graph



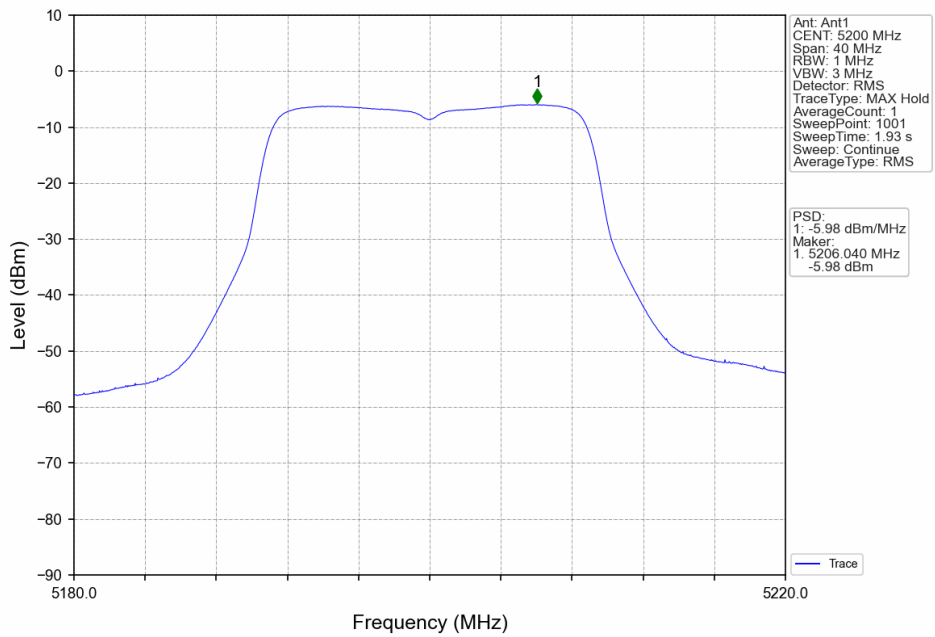
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



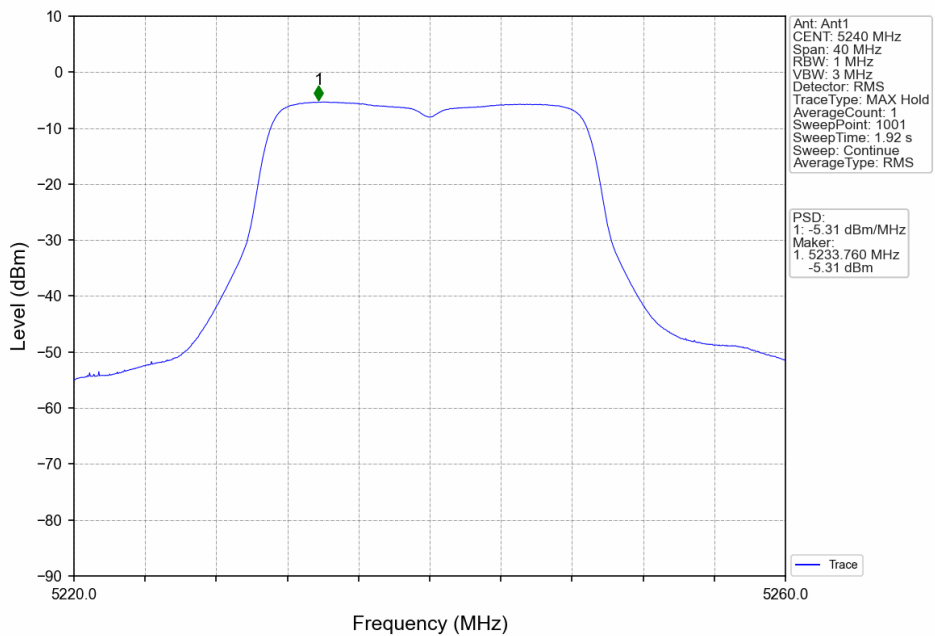
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



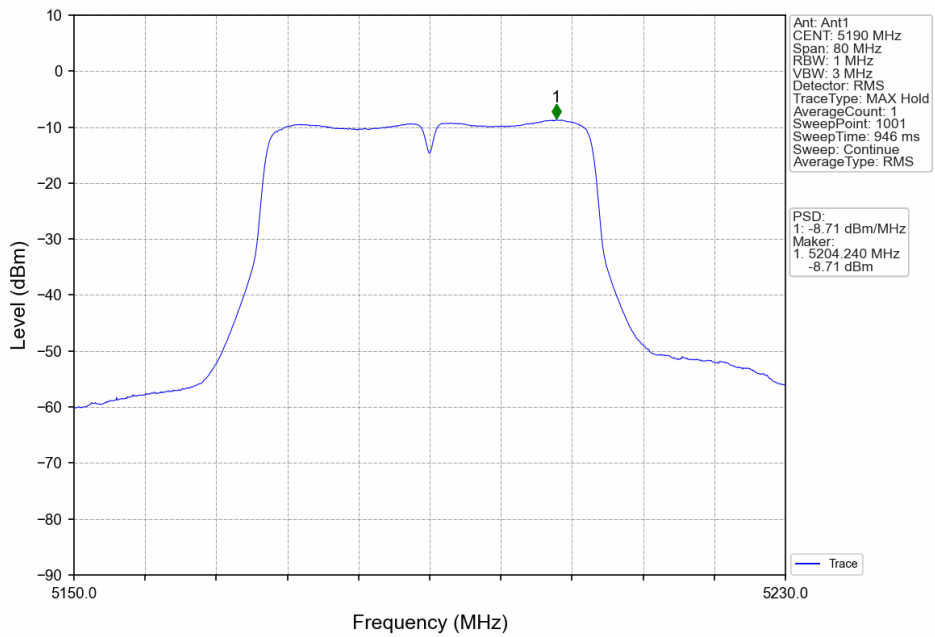
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



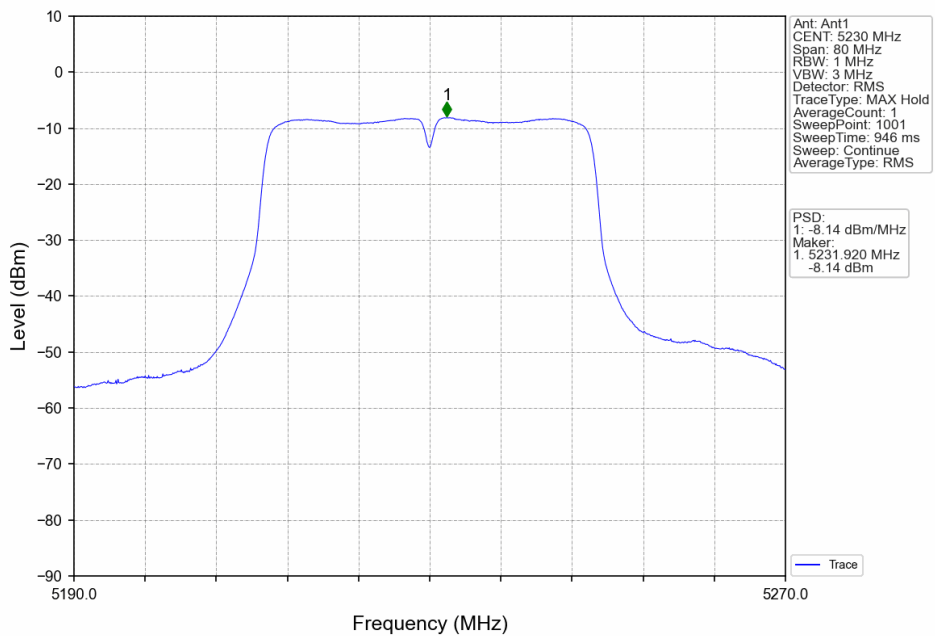
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



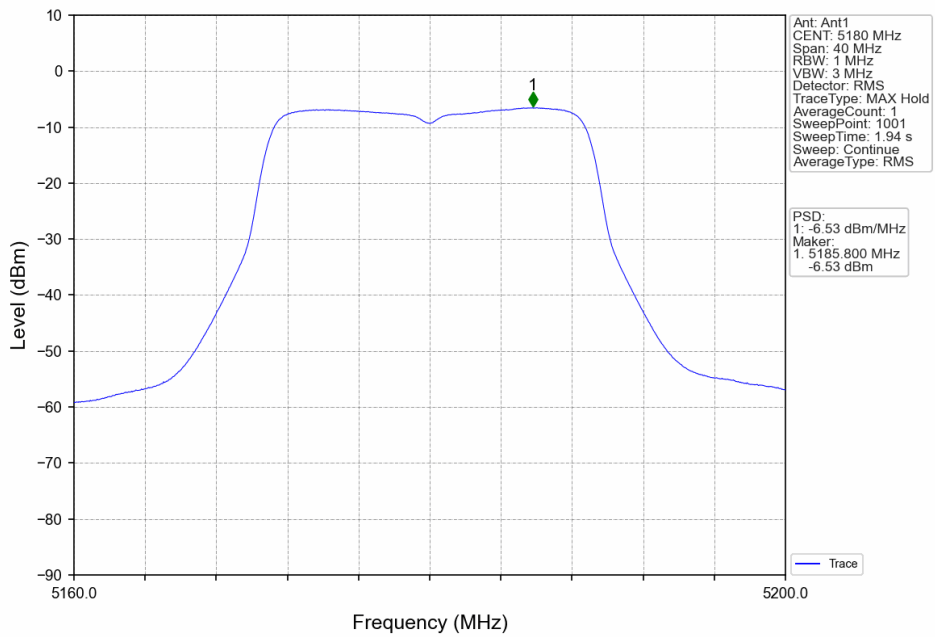
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



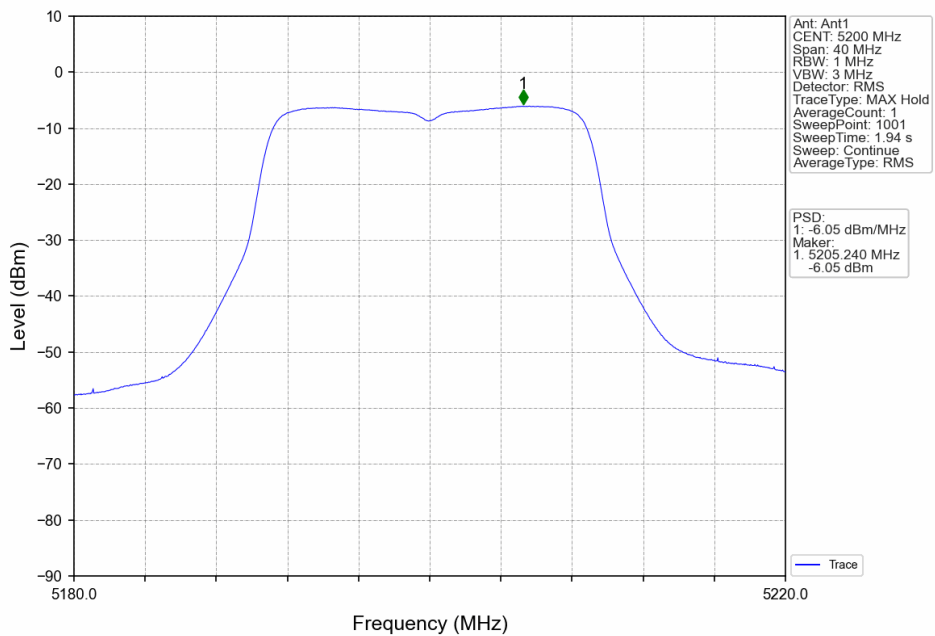
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



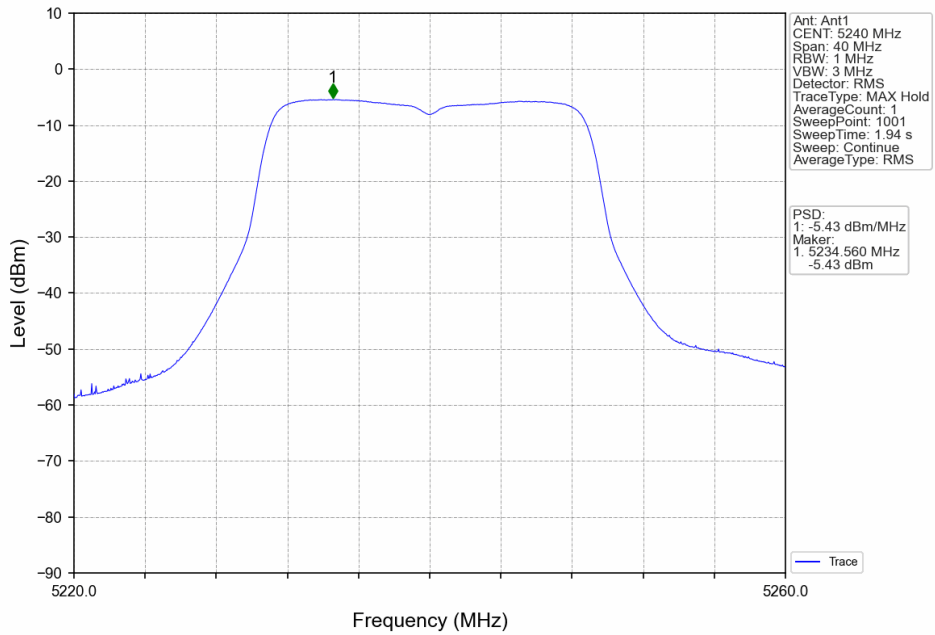
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



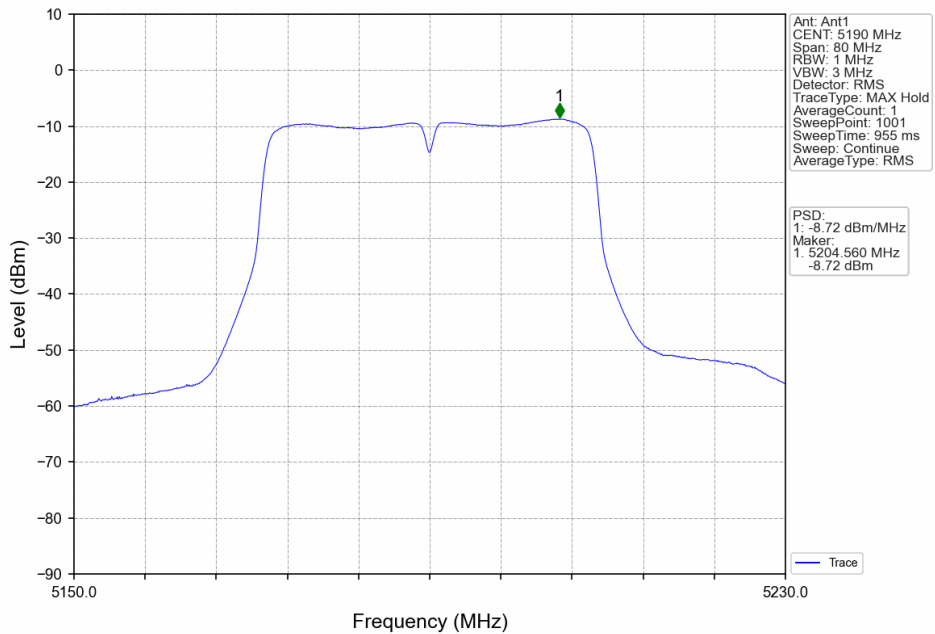
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV

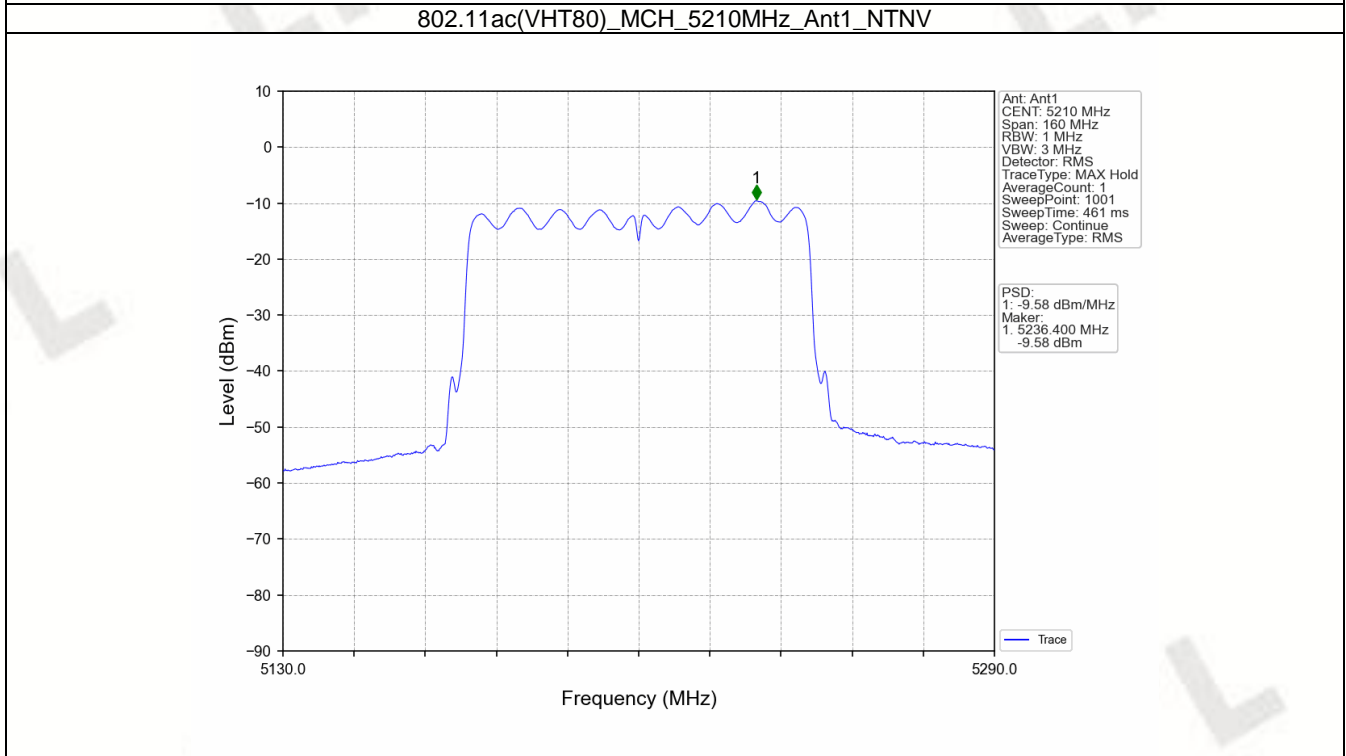
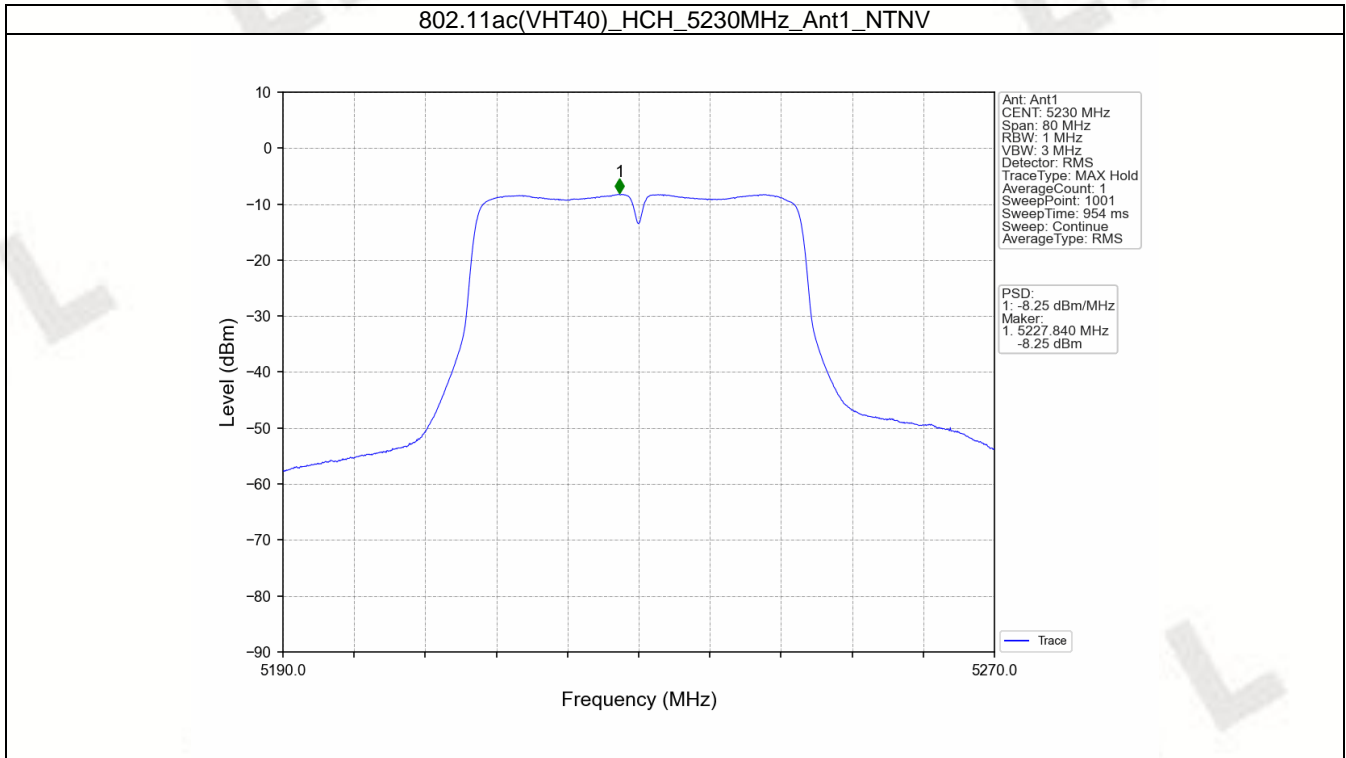


802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV







### 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	5179.986	5150 to 5250	Pass
				120	5179.984	5150 to 5250	Pass
				138	5179.983	5150 to 5250	Pass
			-30	120	5179.983	5150 to 5250	Pass
			-20	120	5179.982	5150 to 5250	Pass
			-10	120	5179.982	5150 to 5250	Pass
			0	120	5179.982	5150 to 5250	Pass
			10	120	5179.981	5150 to 5250	Pass
			30	120	5179.981	5150 to 5250	Pass
			40	120	5179.981	5150 to 5250	Pass
		50	120	5179.981	5150 to 5250	Pass	
		5200	20	102	5199.981	5150 to 5250	Pass
				120	5199.981	5150 to 5250	Pass
				138	5199.982	5150 to 5250	Pass
			-30	120	5199.982	5150 to 5250	Pass
			-20	120	5199.982	5150 to 5250	Pass
			-10	120	5199.982	5150 to 5250	Pass
			0	120	5199.982	5150 to 5250	Pass
			10	120	5199.983	5150 to 5250	Pass
			30	120	5199.983	5150 to 5250	Pass
			40	120	5199.983	5150 to 5250	Pass
		50	120	5199.983	5150 to 5250	Pass	
		5240	20	102	5239.982	5150 to 5250	Pass
				120	5239.982	5150 to 5250	Pass
				138	5239.983	5150 to 5250	Pass
			-30	120	5239.983	5150 to 5250	Pass
			-20	120	5239.984	5150 to 5250	Pass
			-10	120	5239.984	5150 to 5250	Pass
			0	120	5239.985	5150 to 5250	Pass
			10	120	5239.985	5150 to 5250	Pass
			30	120	5239.985	5150 to 5250	Pass
			40	120	5239.986	5150 to 5250	Pass
		50	120	5239.986	5150 to 5250	Pass	
		5190	20	102	5189.984	5150 to 5250	Pass
				120	5189.984	5150 to 5250	Pass
				138	5189.985	5150 to 5250	Pass
			-30	120	5189.986	5150 to 5250	Pass
			-20	120	5189.986	5150 to 5250	Pass
			-10	120	5189.987	5150 to 5250	Pass
			0	120	5189.987	5150 to 5250	Pass
			10	120	5189.988	5150 to 5250	Pass
			30	120	5189.988	5150 to 5250	Pass
			40	120	5189.988	5150 to 5250	Pass
		50	120	5189.989	5150 to 5250	Pass	
		5230	20	102	5229.985	5150 to 5250	Pass
120	5229.986			5150 to 5250	Pass		
138	5229.987			5150 to 5250	Pass		
-30	120		5229.988	5150 to 5250	Pass		
-20	120		5229.988	5150 to 5250	Pass		

			-10	120	5229.989	5150 to 5250	Pass
			0	120	5229.989	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	5209.988	5150 to 5250	Pass
				120	5209.988	5150 to 5250	Pass
				138	5209.989	5150 to 5250	Pass
			-30	120	5209.990	5150 to 5250	Pass
			-20	120	5209.990	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	5209.992	5150 to 5250	Pass
			40	120	5209.992	5150 to 5250	Pass
			50	120	5209.992	5150 to 5250	Pass