



Annex for 5.1G WiFi

Test Report No.: CTL2403273071-WF02

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FCCID: 2AP6Y-SK4MINI

1. Bandwidth

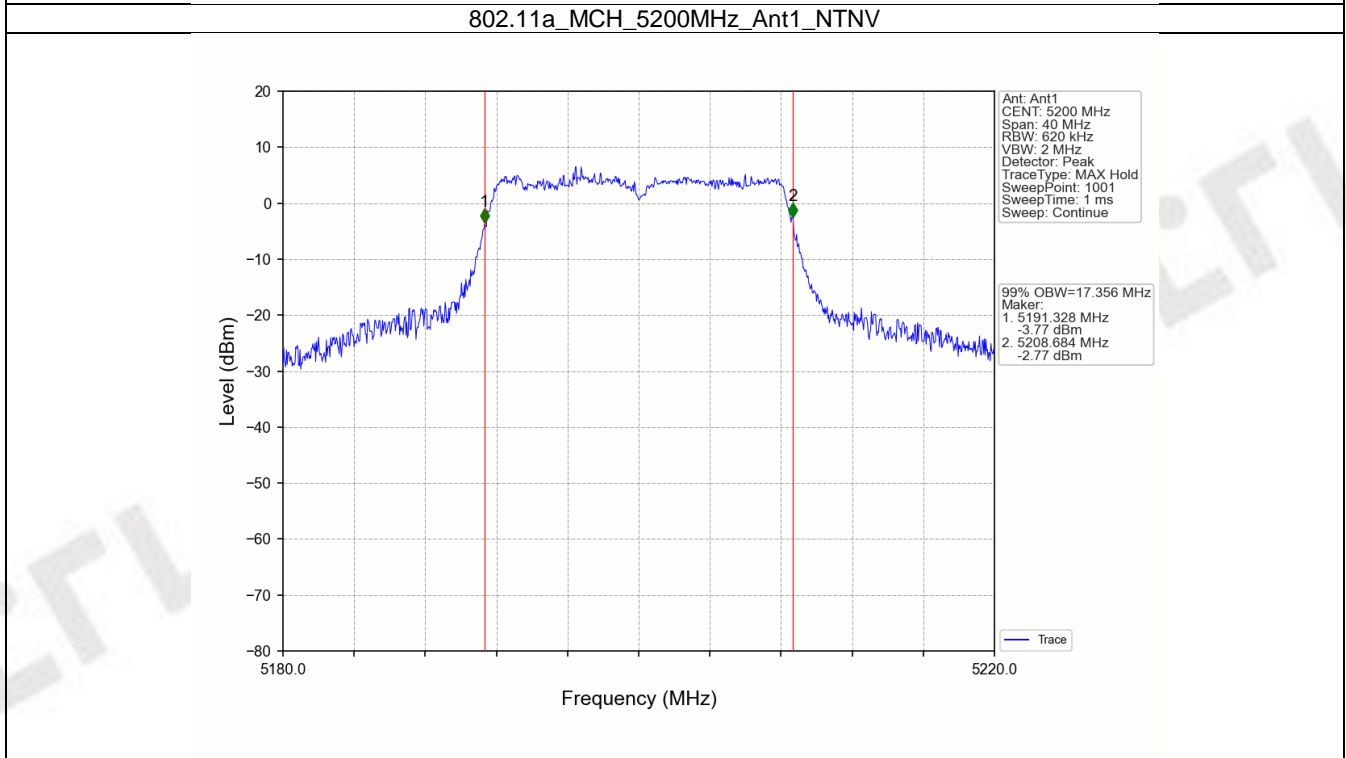
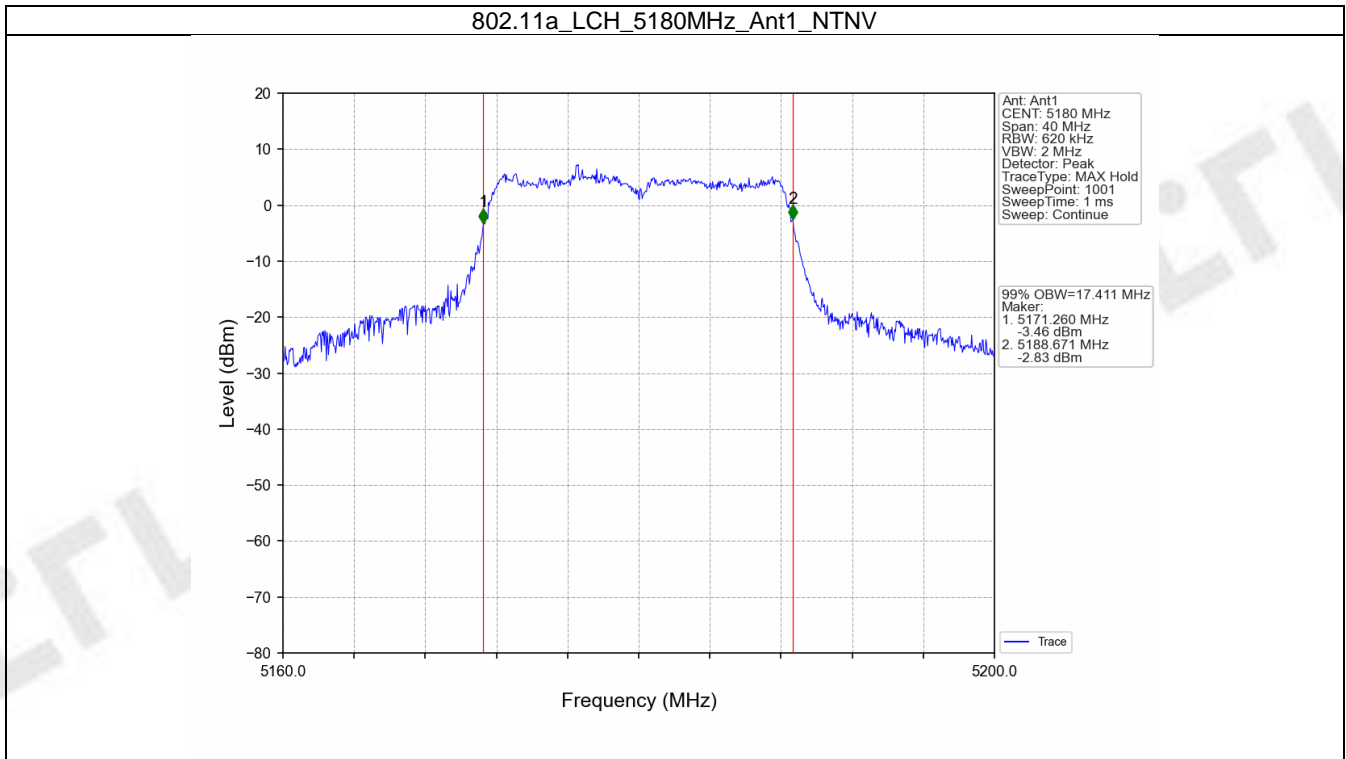
1.1 OBW

1.1.1 Test Result

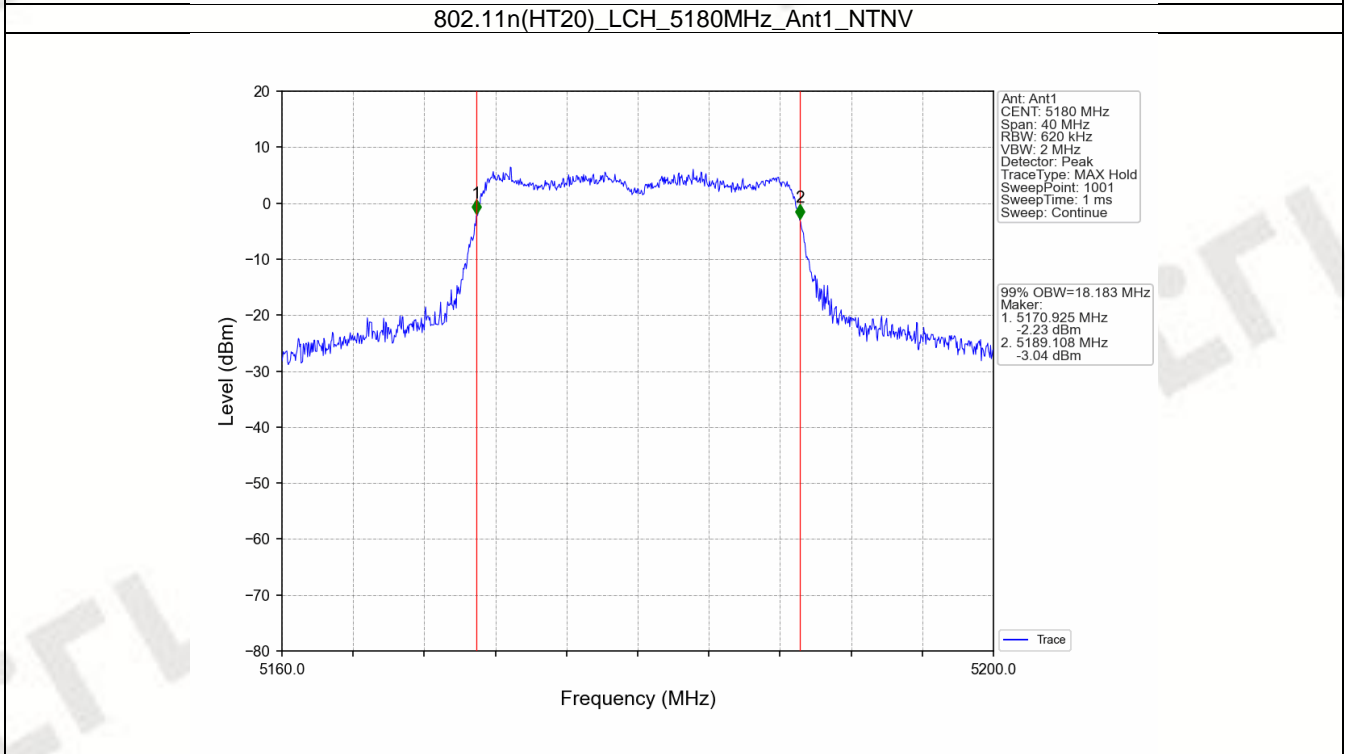
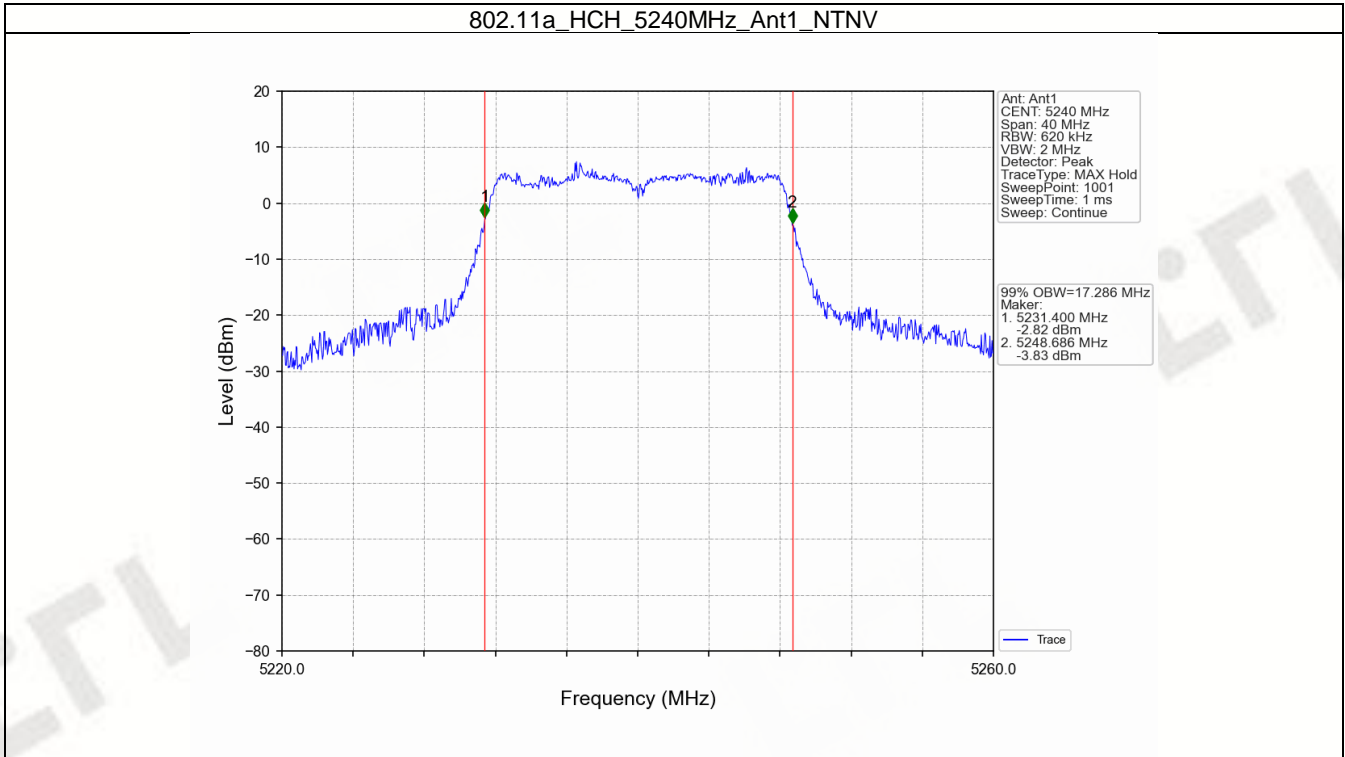
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.411	/	Pass
		5200	1	17.356	/	Pass
		5240	1	17.286	/	Pass
802.11n (HT20)	SISO	5180	1	18.183	/	Pass
		5200	1	18.186	/	Pass
		5240	1	18.172	/	Pass
802.11n (HT40)	SISO	5190	1	37.223	/	Pass
		5230	1	36.988	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.250	/	Pass
		5200	1	18.191	/	Pass
		5240	1	18.182	/	Pass
802.11ac (VHT40)	SISO	5190	1	37.230	/	Pass
		5230	1	36.807	/	Pass
802.11ac (VHT80)	SISO	5210	1	78.720	/	Pass

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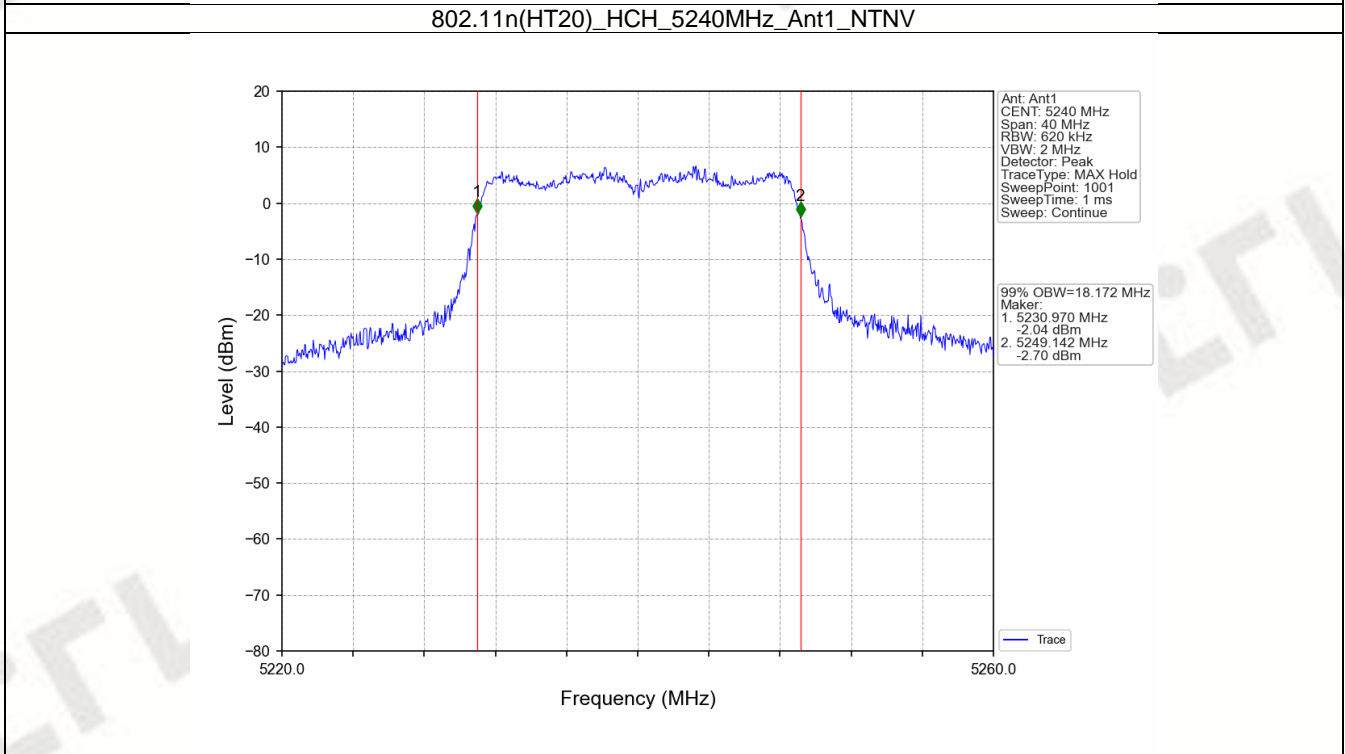
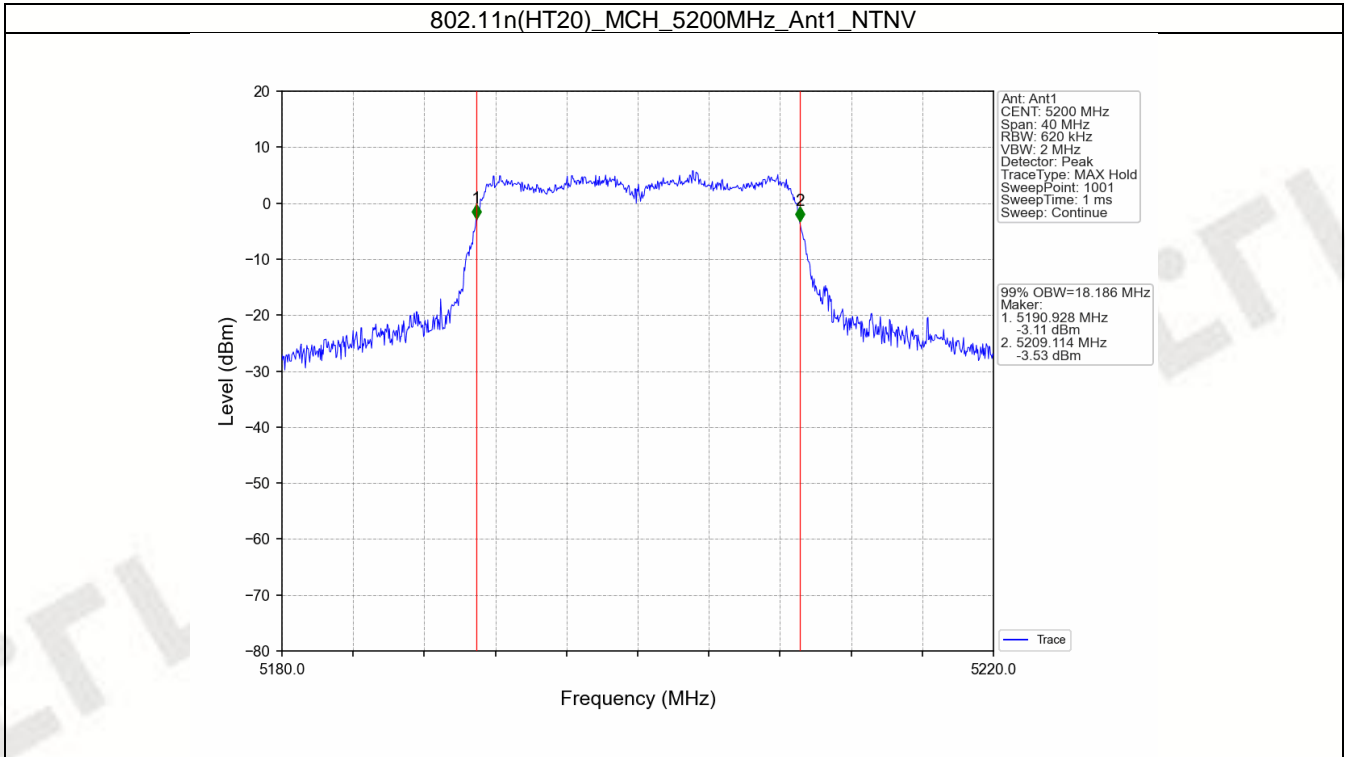
1.1.2 Test Graph



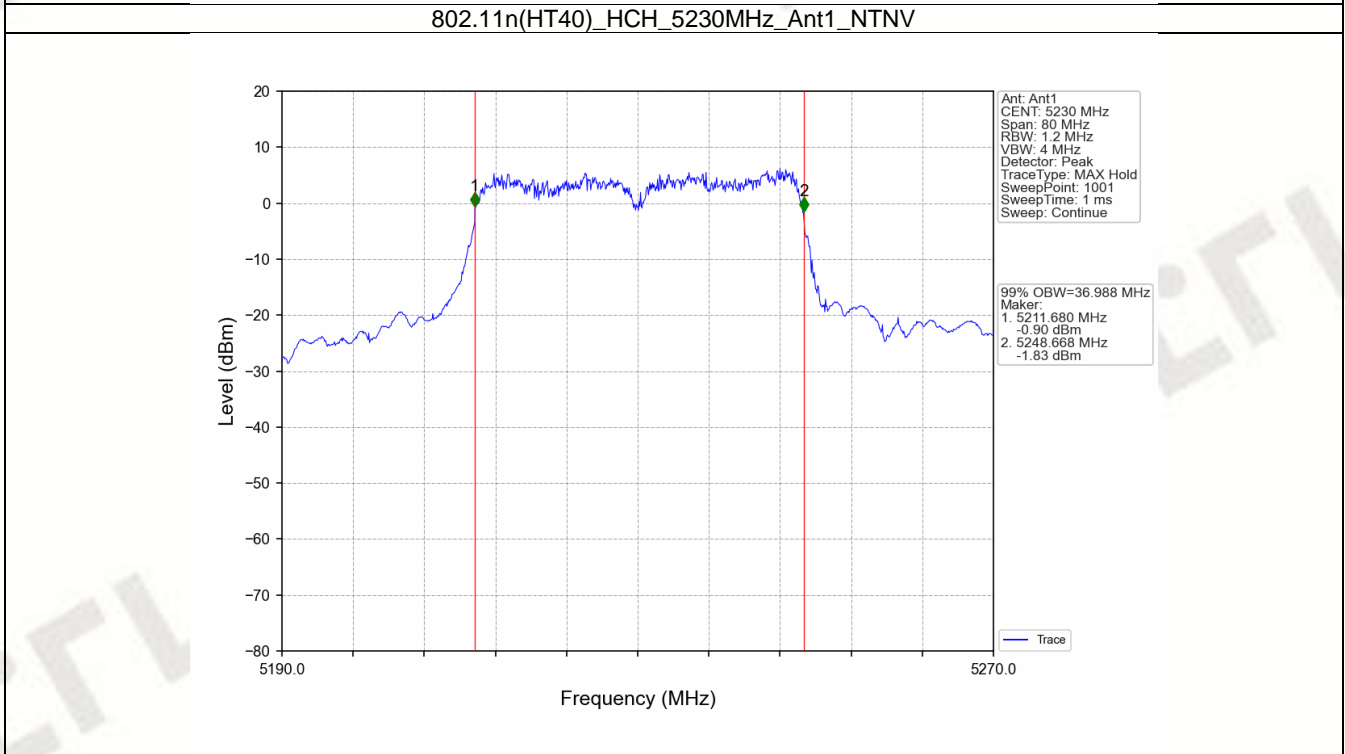
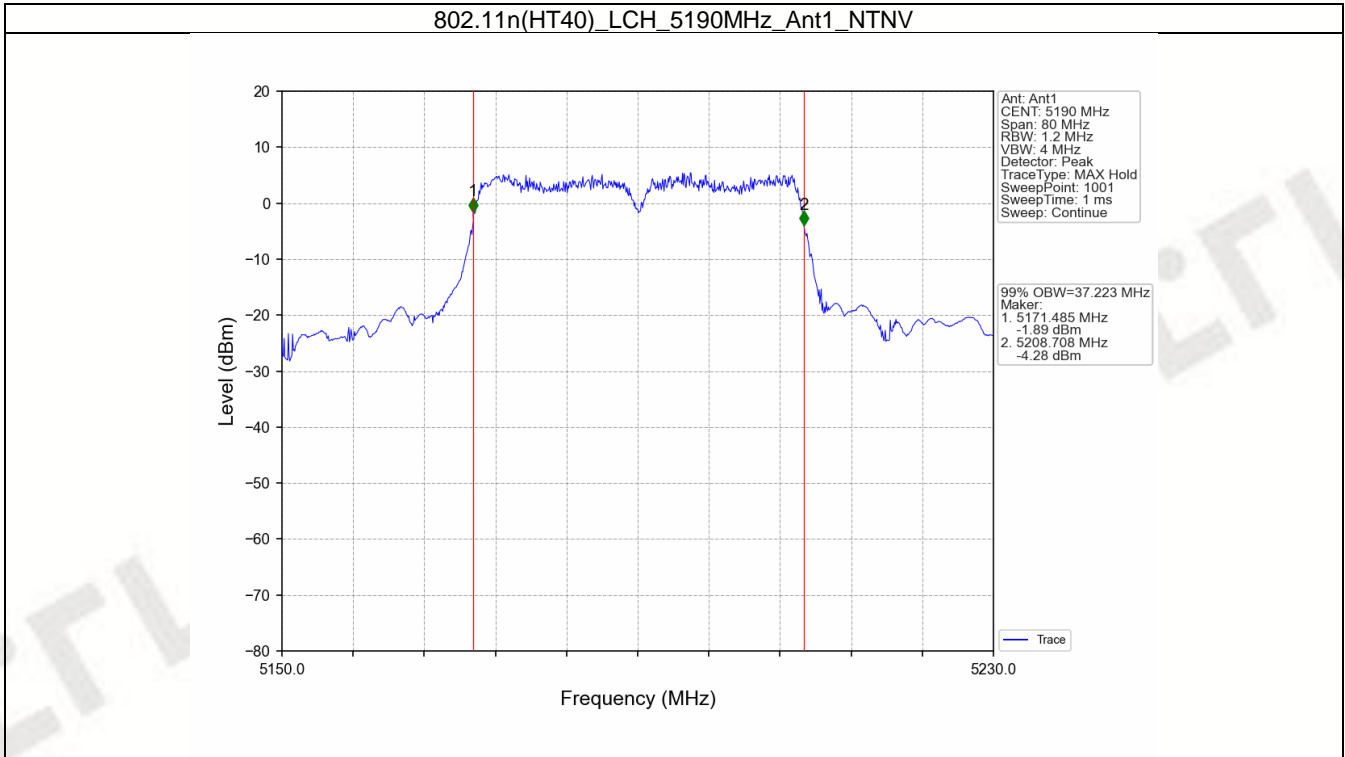
FCCID: 2AP6Y-SK4MINI



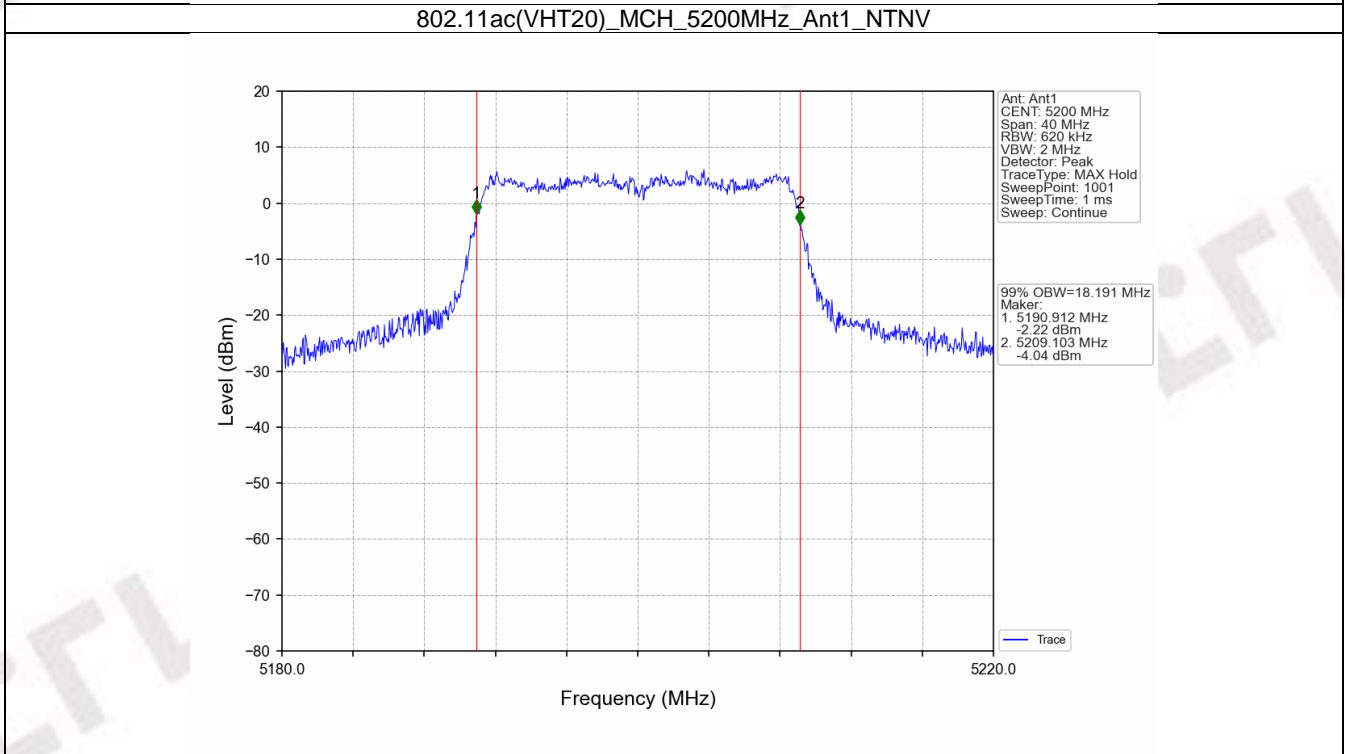
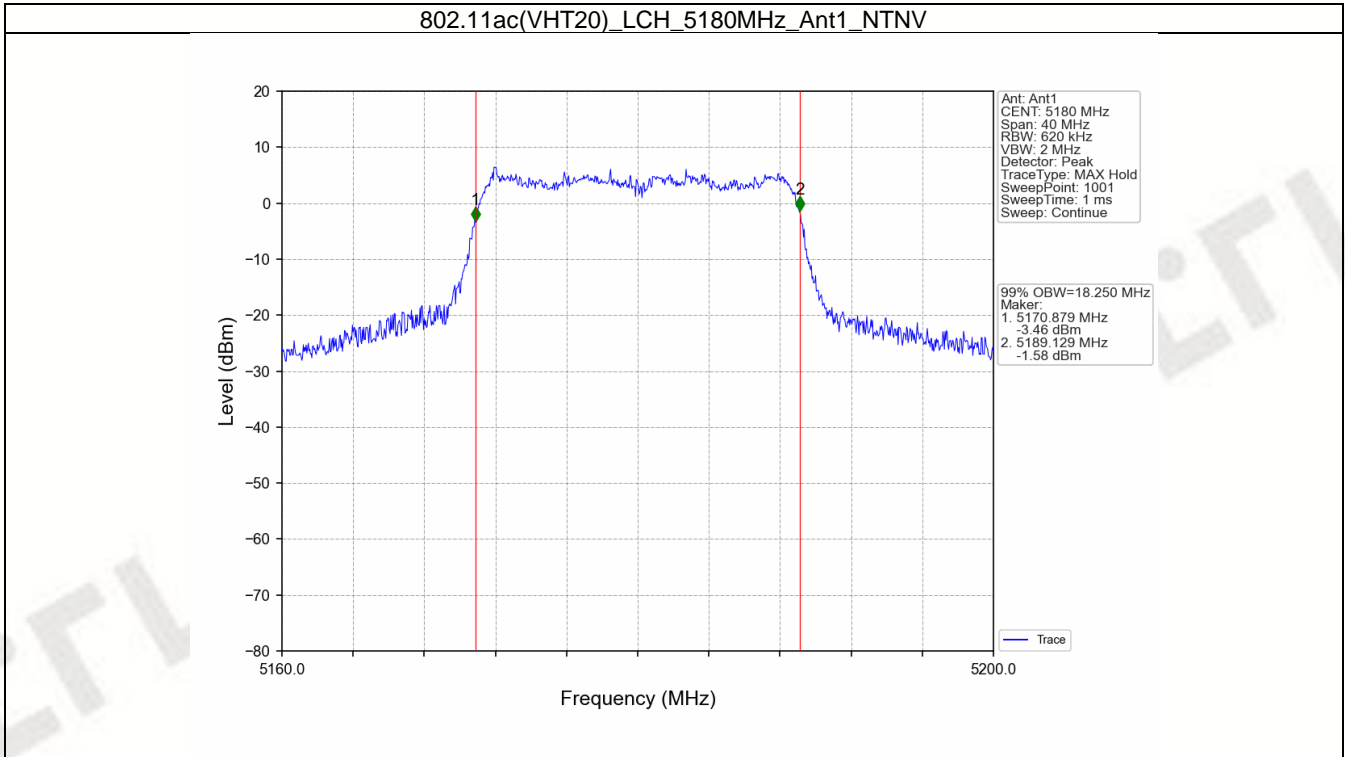
FCCID: 2AP6Y-SK4MINI



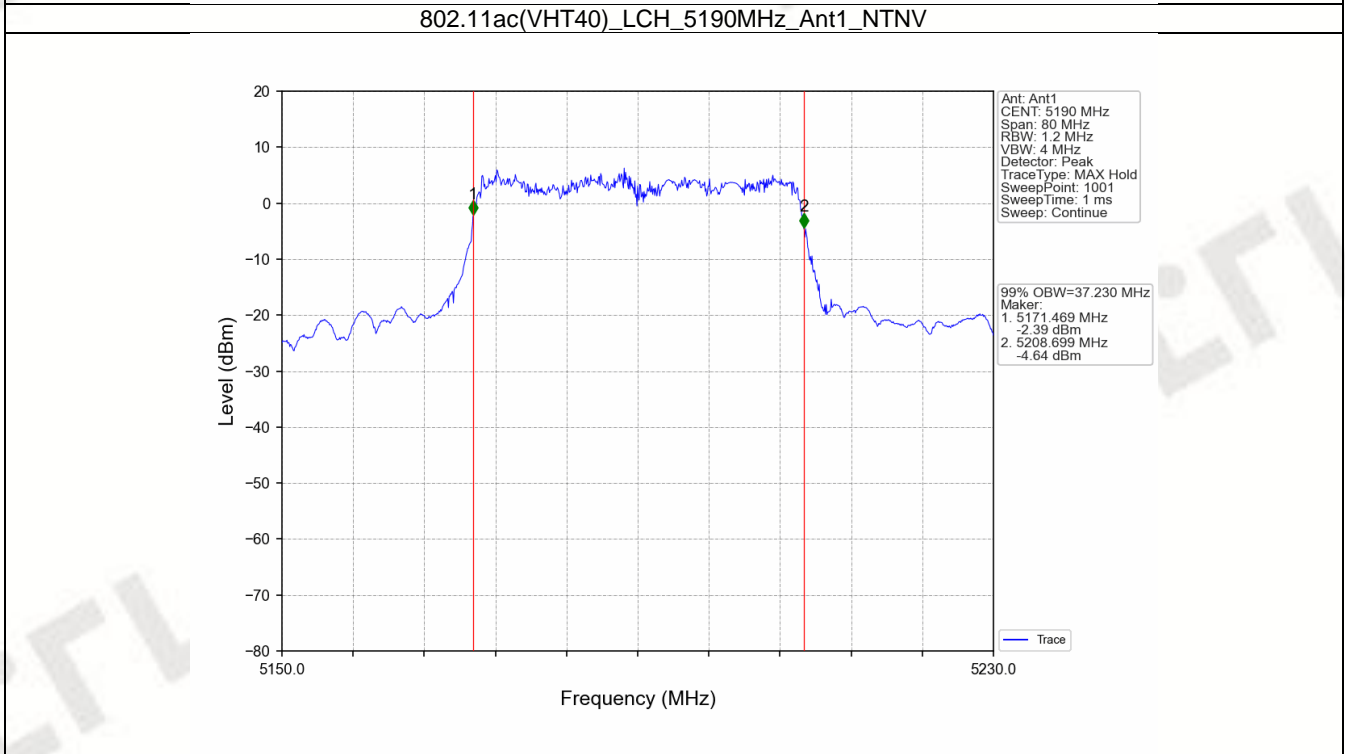
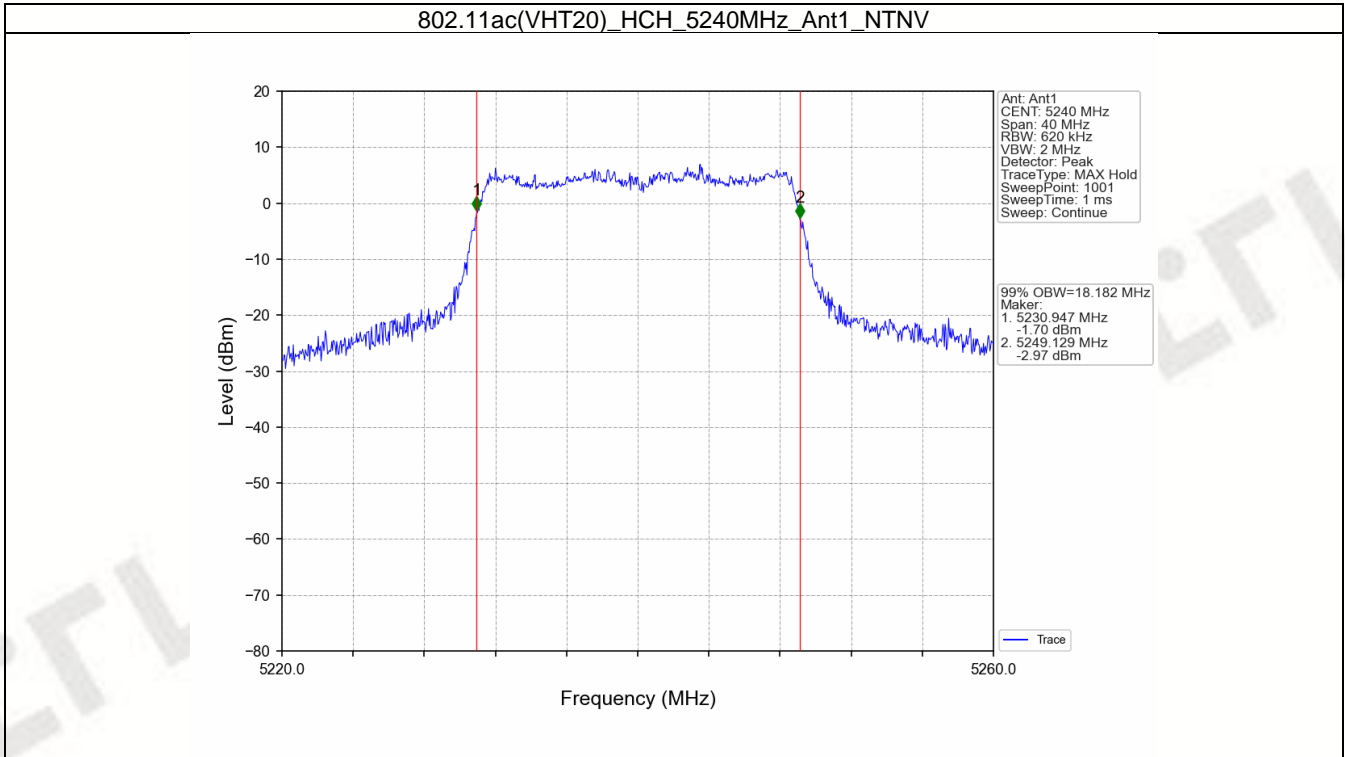
FCCID: 2AP6Y-SK4MINI



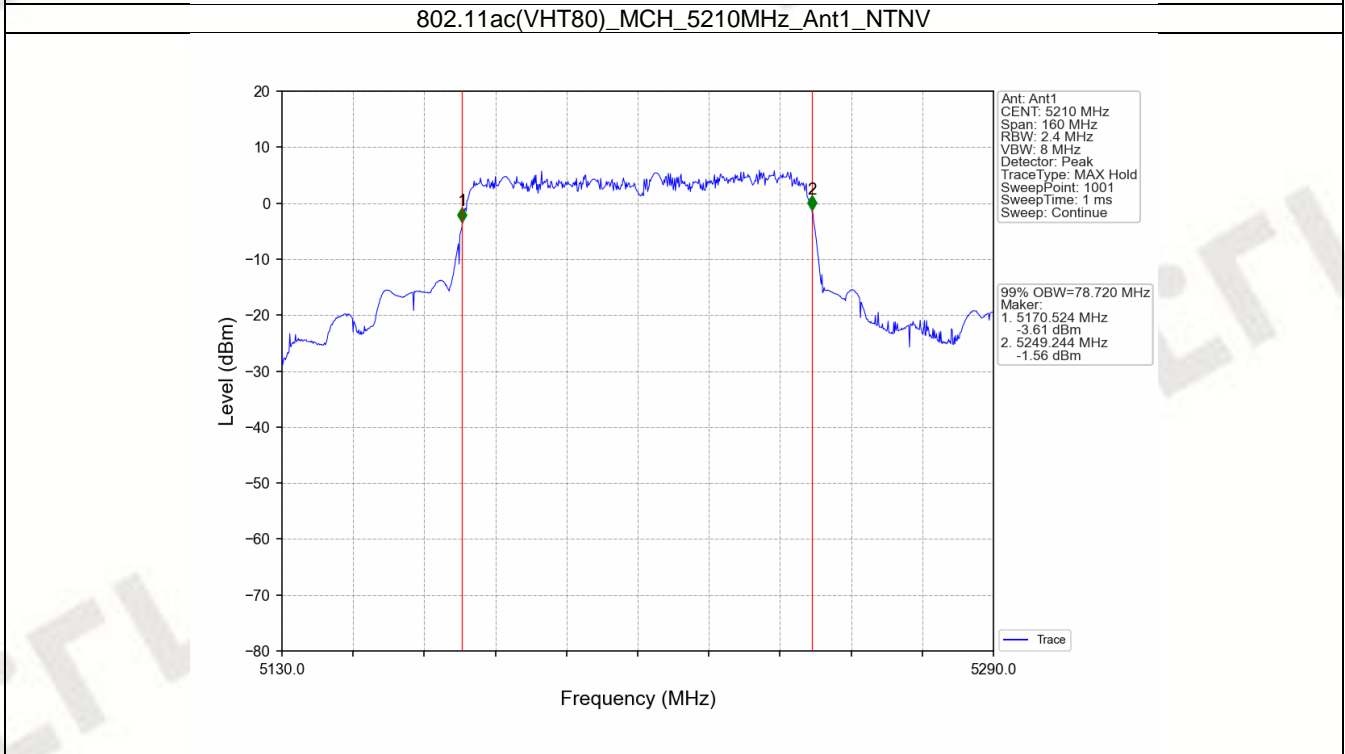
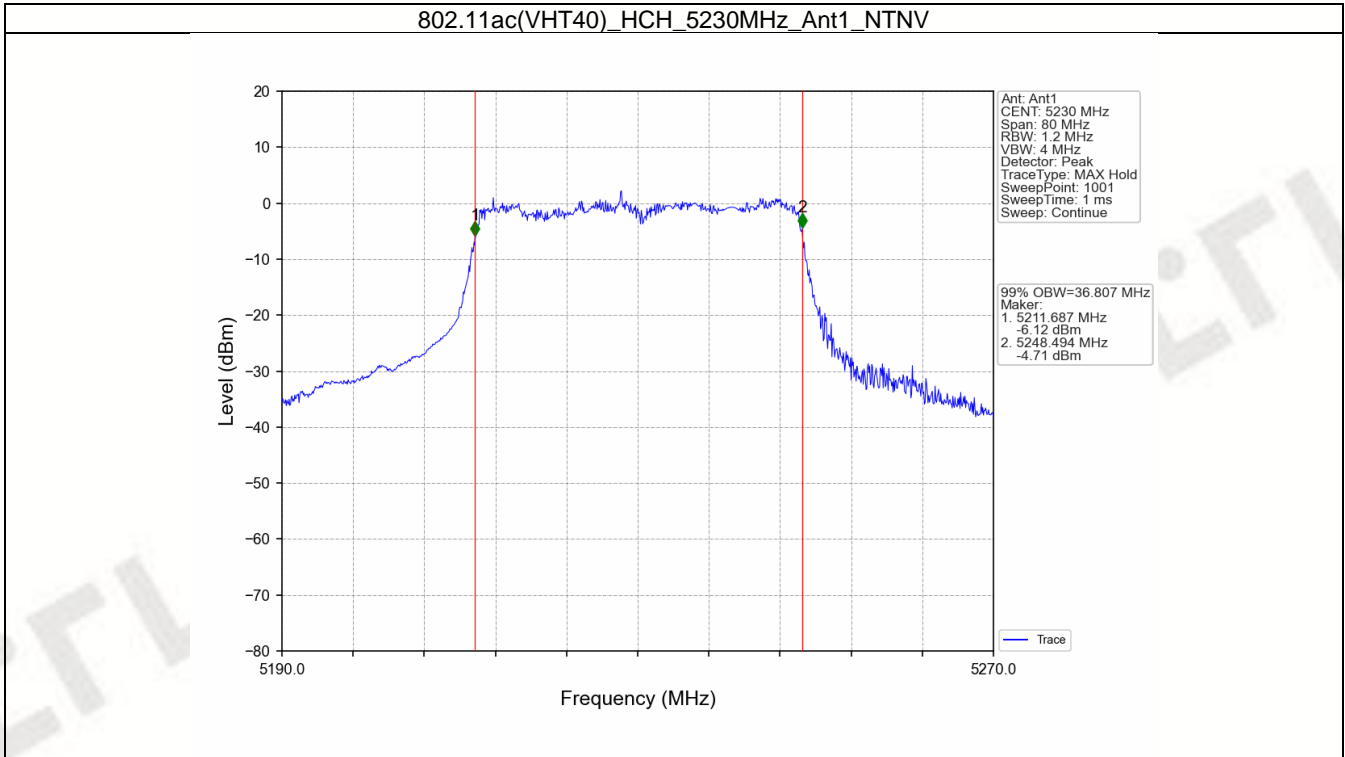
FCCID: 2AP6Y-SK4MINI



FCCID: 2AP6Y-SK4MINI



FCCID: 2AP6Y-SK4MINI



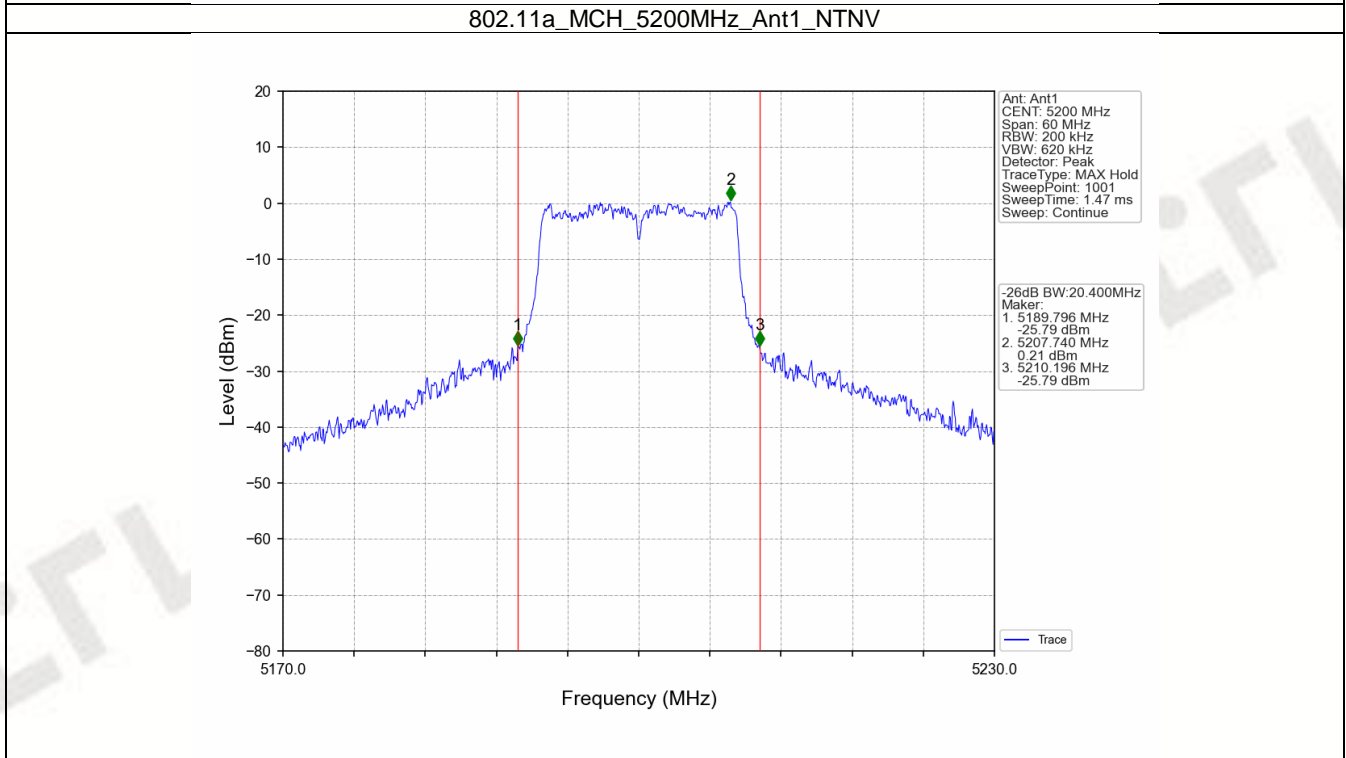
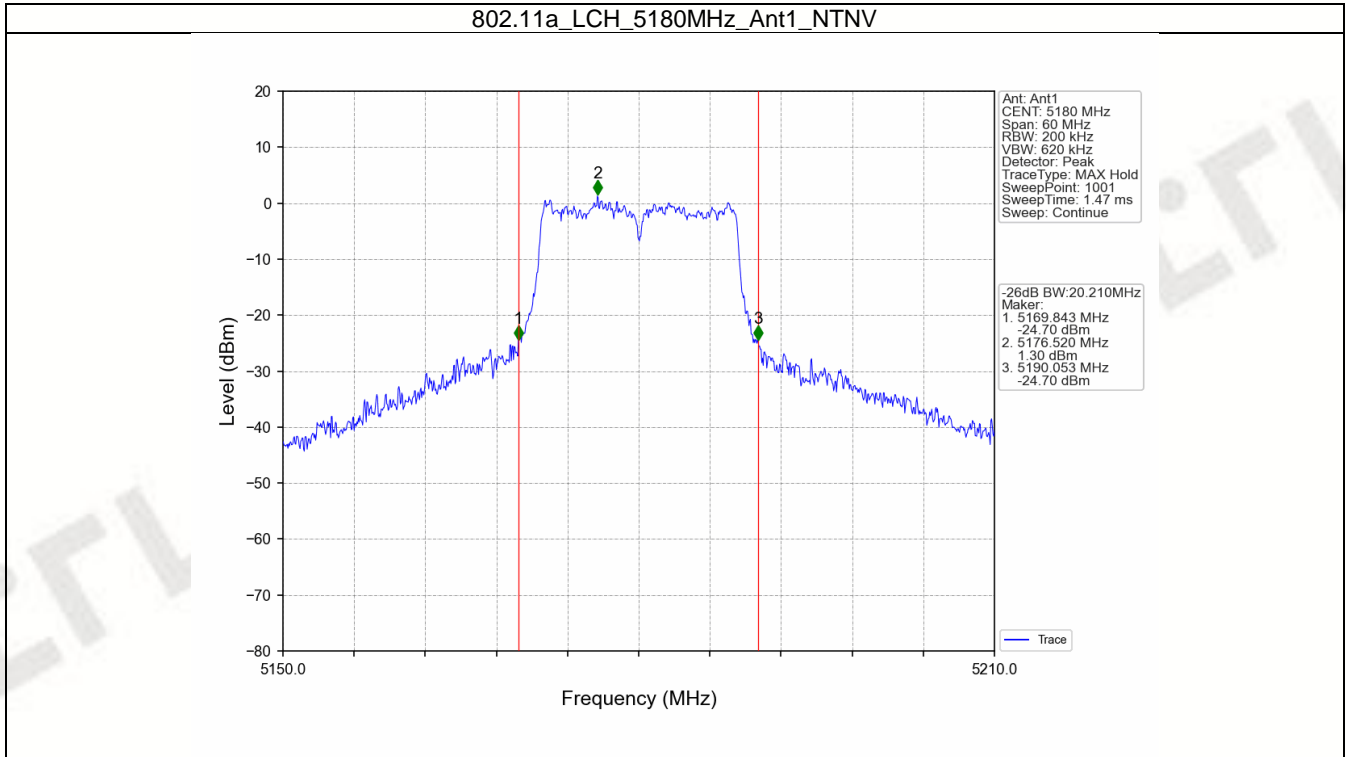
FCCID: 2AP6Y-SK4MINI

1.2 26dB BW**1.2.1 Test Result**

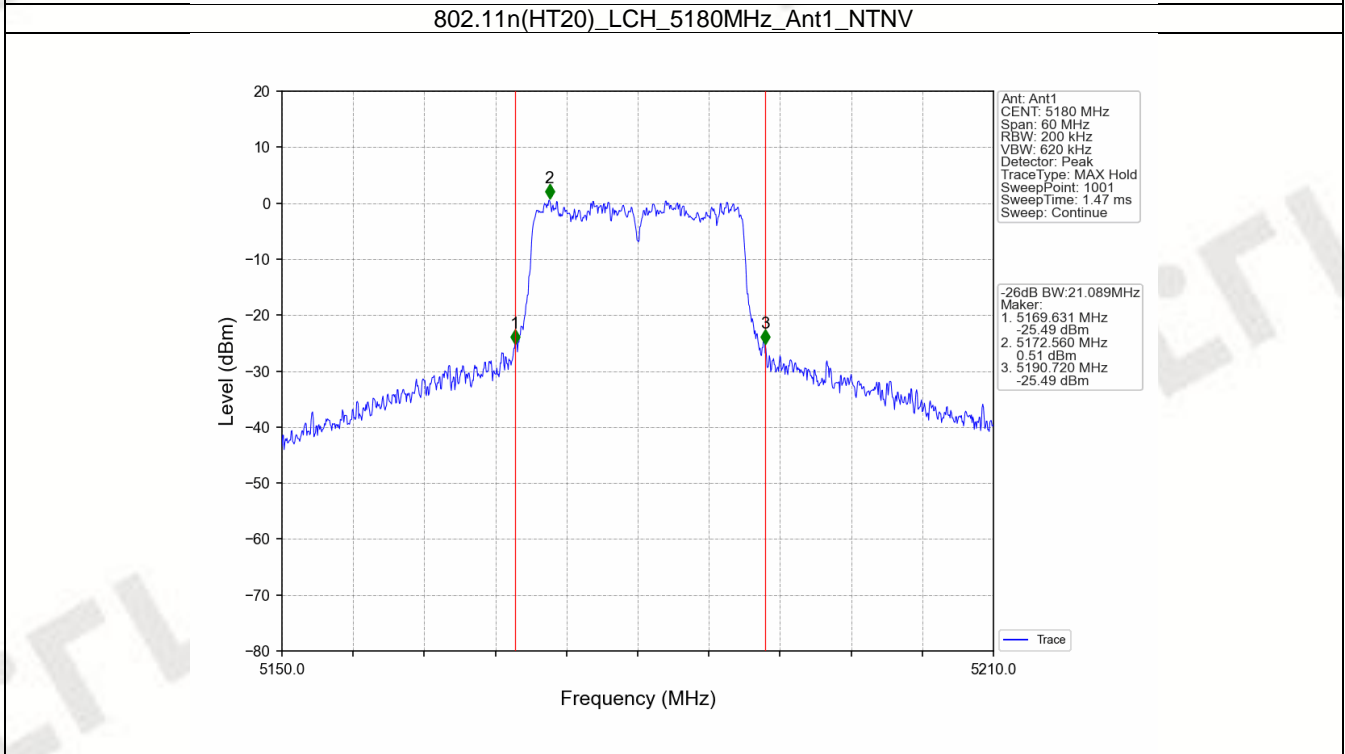
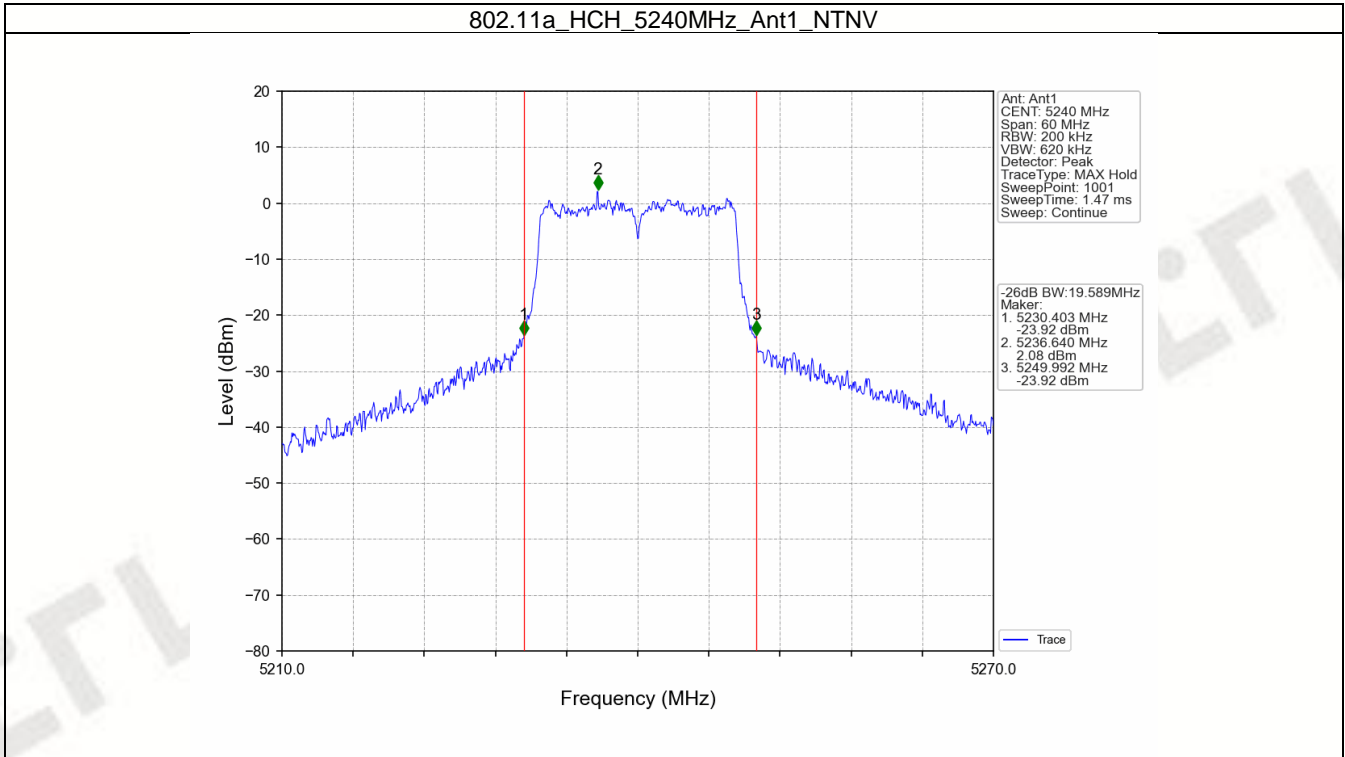
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	20.210	/	Pass
		5200	1	20.400	/	Pass
		5240	1	19.589	/	Pass
802.11n (HT20)	SISO	5180	1	21.089	/	Pass
		5200	1	20.601	/	Pass
		5240	1	20.674	/	Pass
802.11n (HT40)	SISO	5190	1	55.745	/	Pass
		5230	1	58.312	/	Pass
802.11ac (VHT20)	SISO	5180	1	20.348	/	Pass
		5200	1	20.388	/	Pass
		5240	1	20.652	/	Pass
802.11ac (VHT40)	SISO	5190	1	67.297	/	Pass
		5230	1	40.744	/	Pass
802.11ac (VHT80)	SISO	5210	1	108.367	/	Pass

FCCID: 2AP6Y-SK4MINI

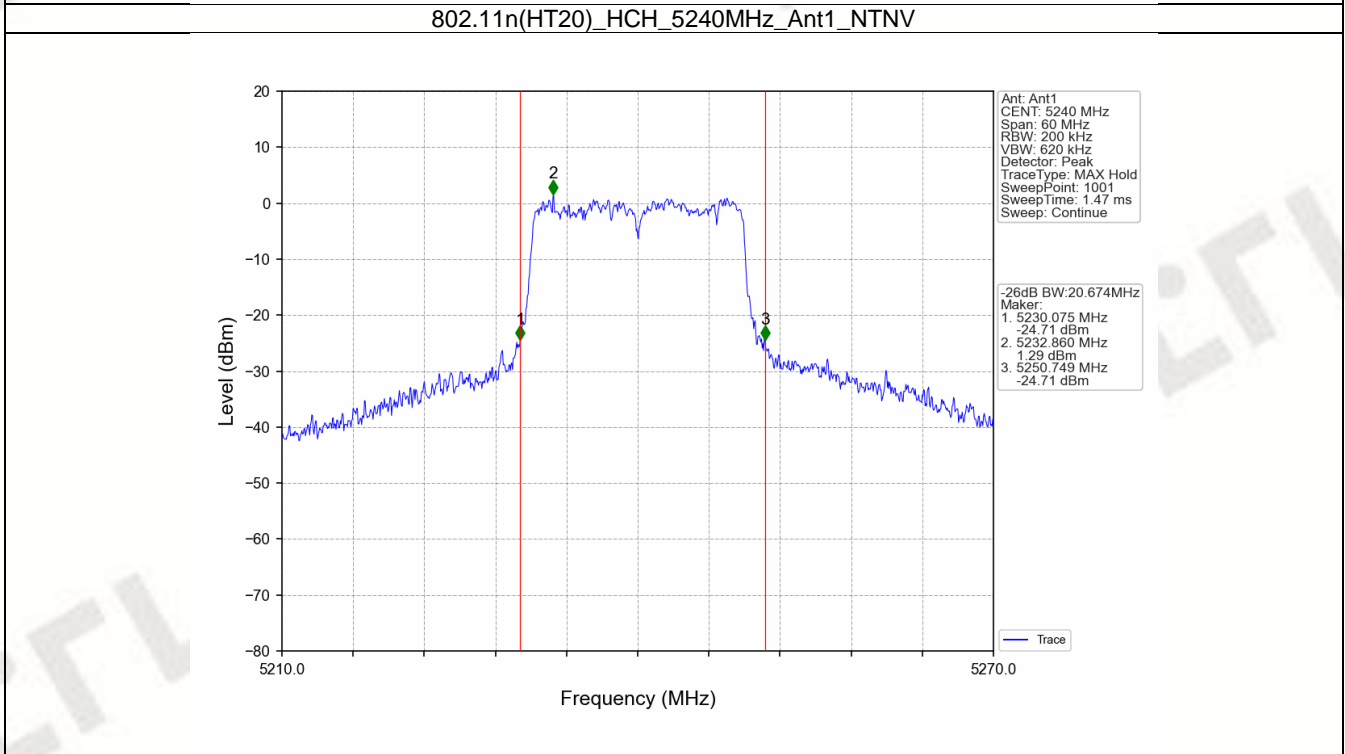
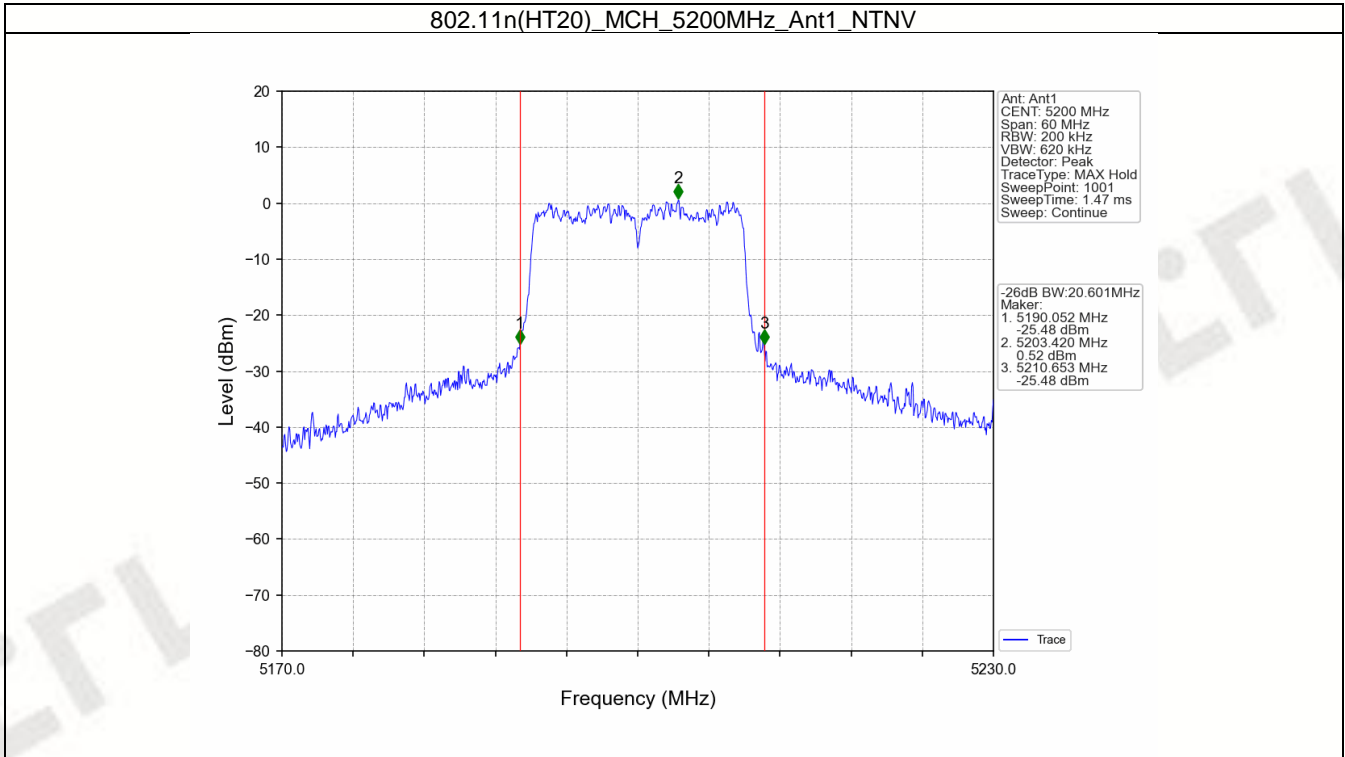
1.2.2 Test Graph



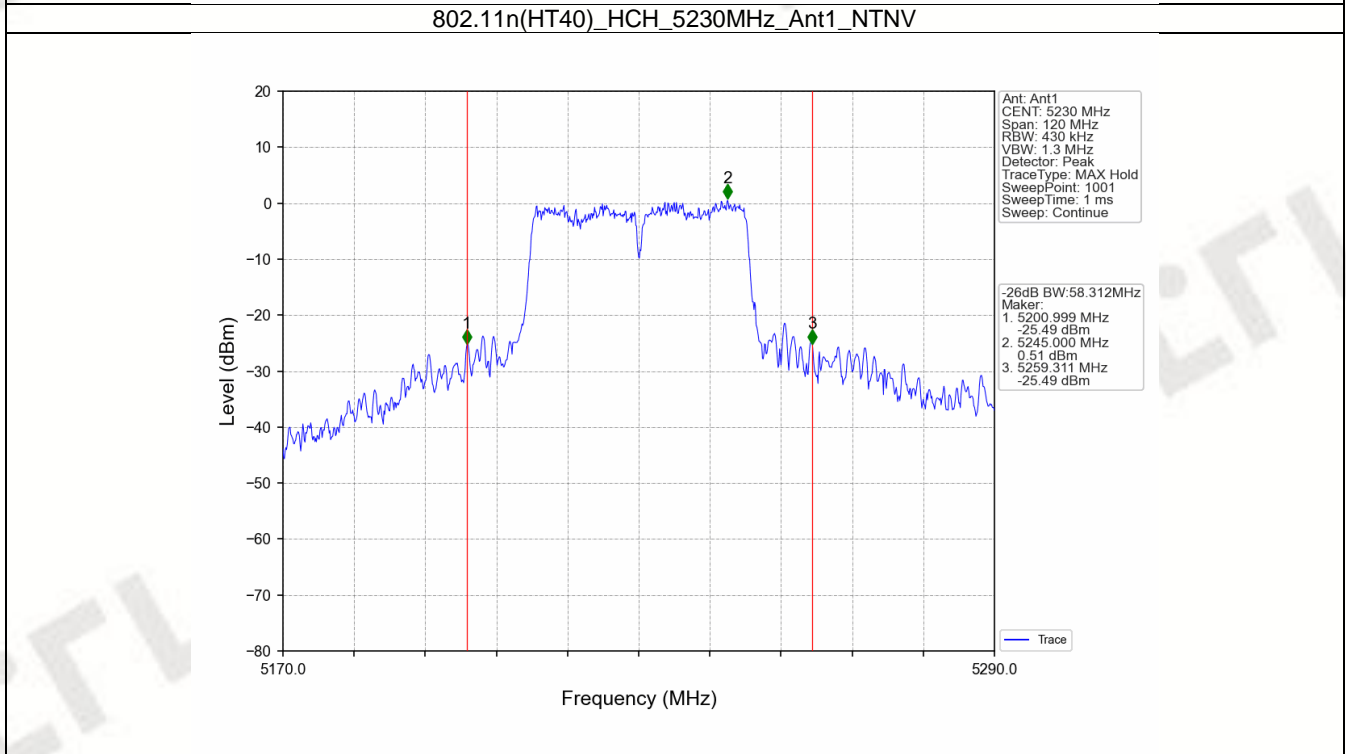
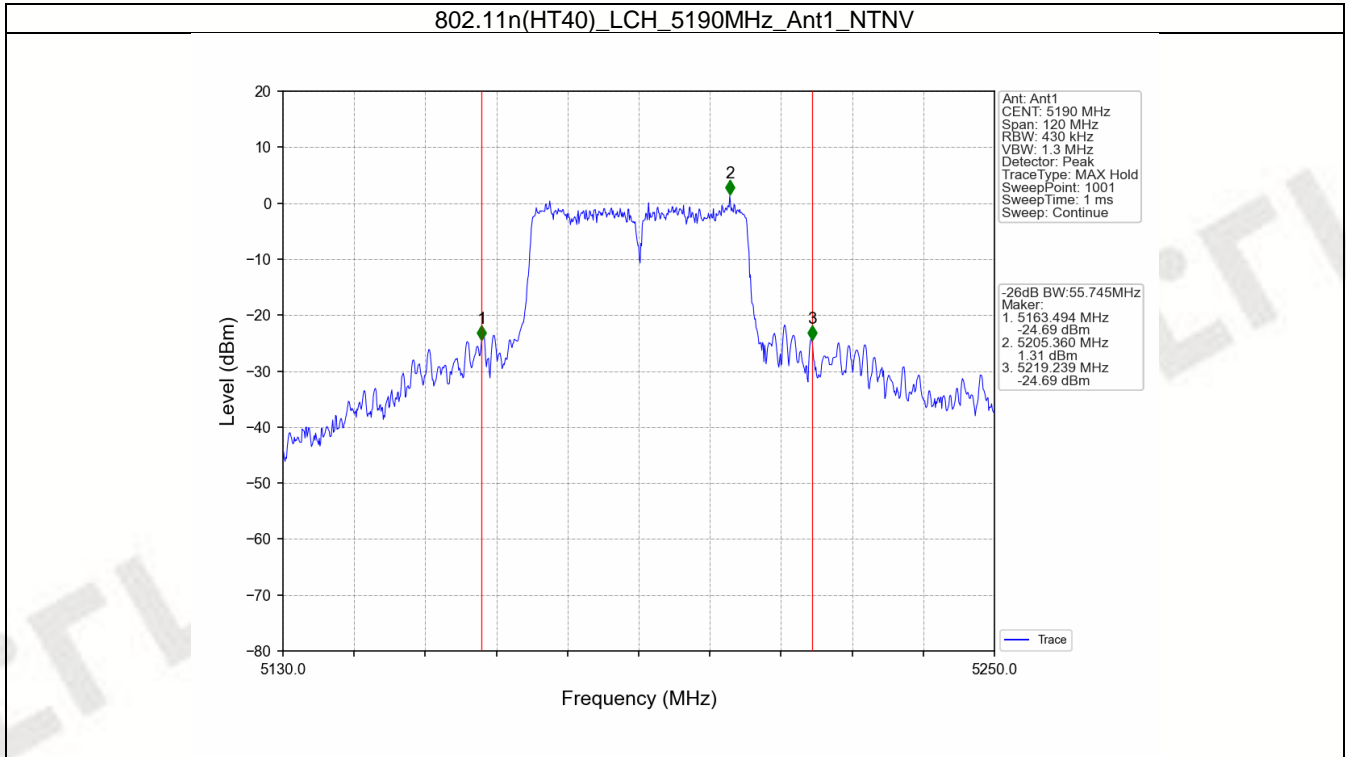
FCCID: 2AP6Y-SK4MINI



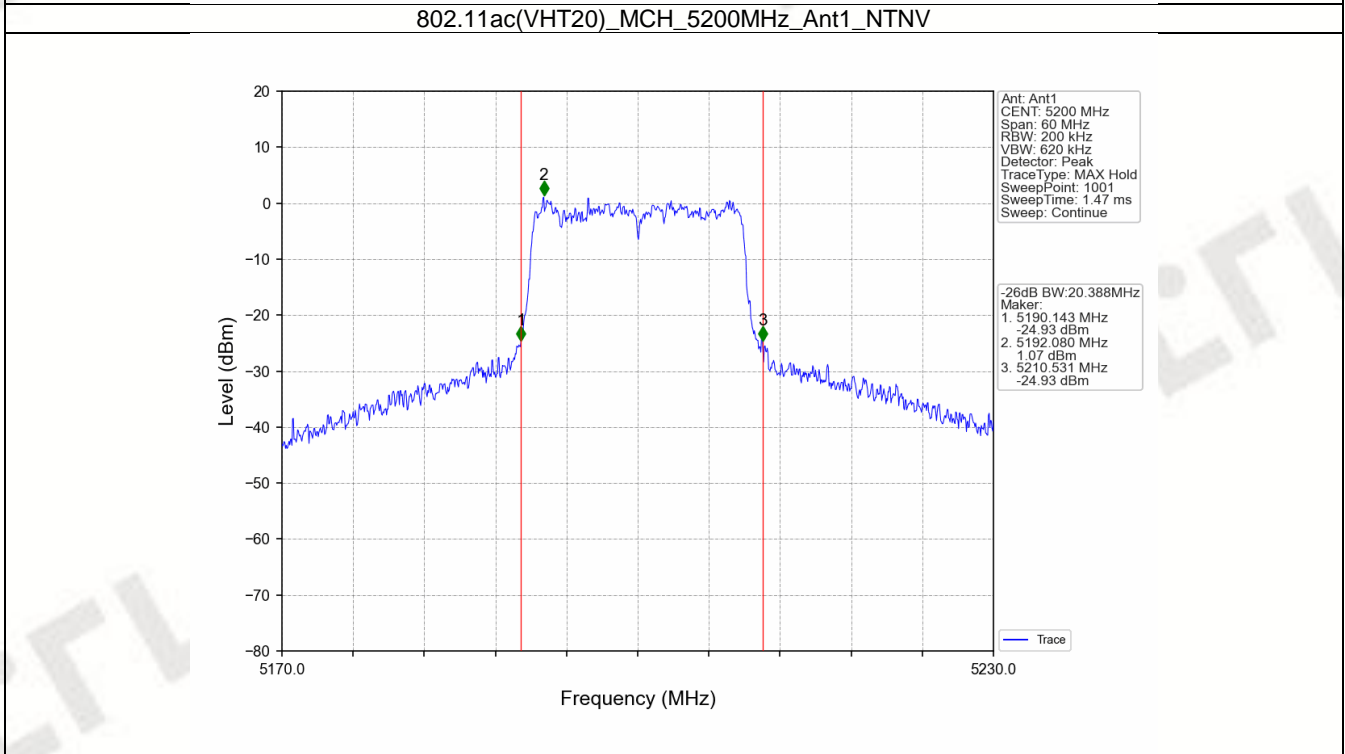
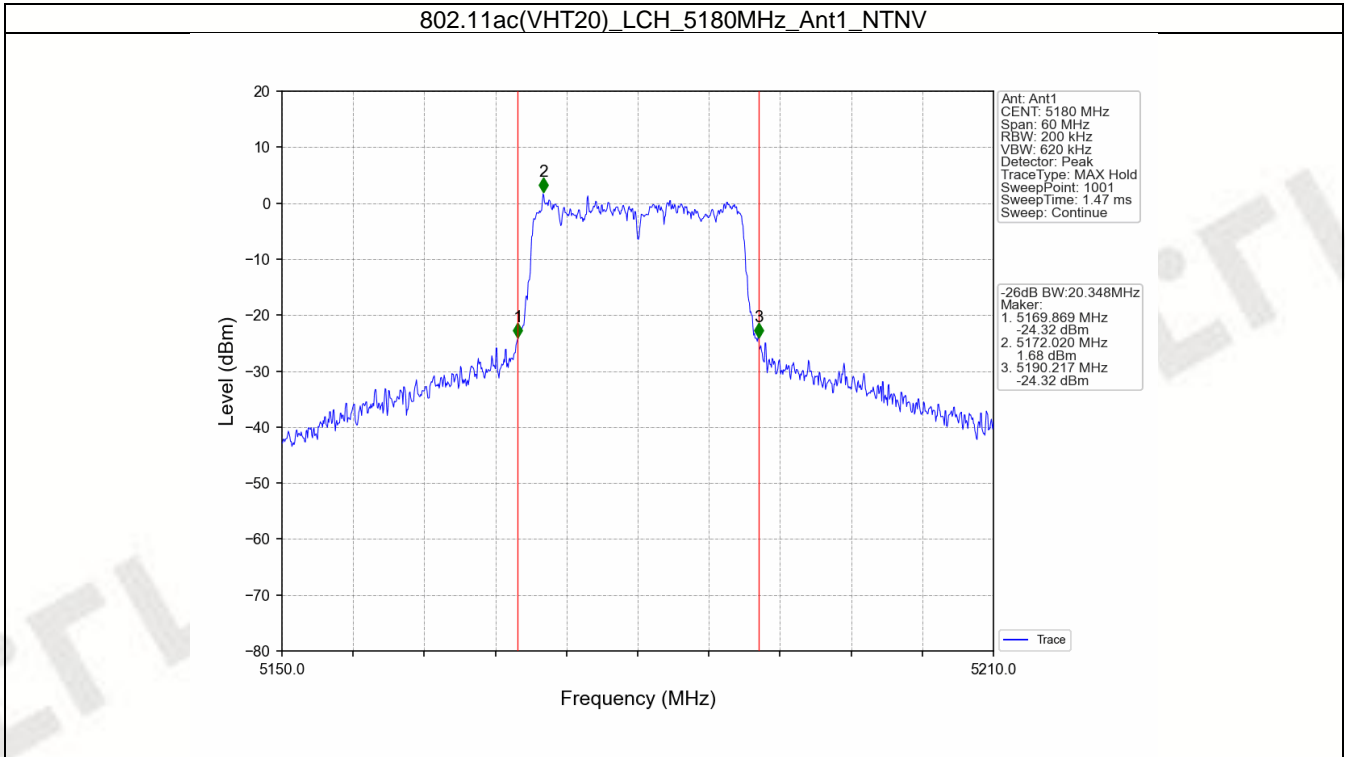
FCCID: 2AP6Y-SK4MINI



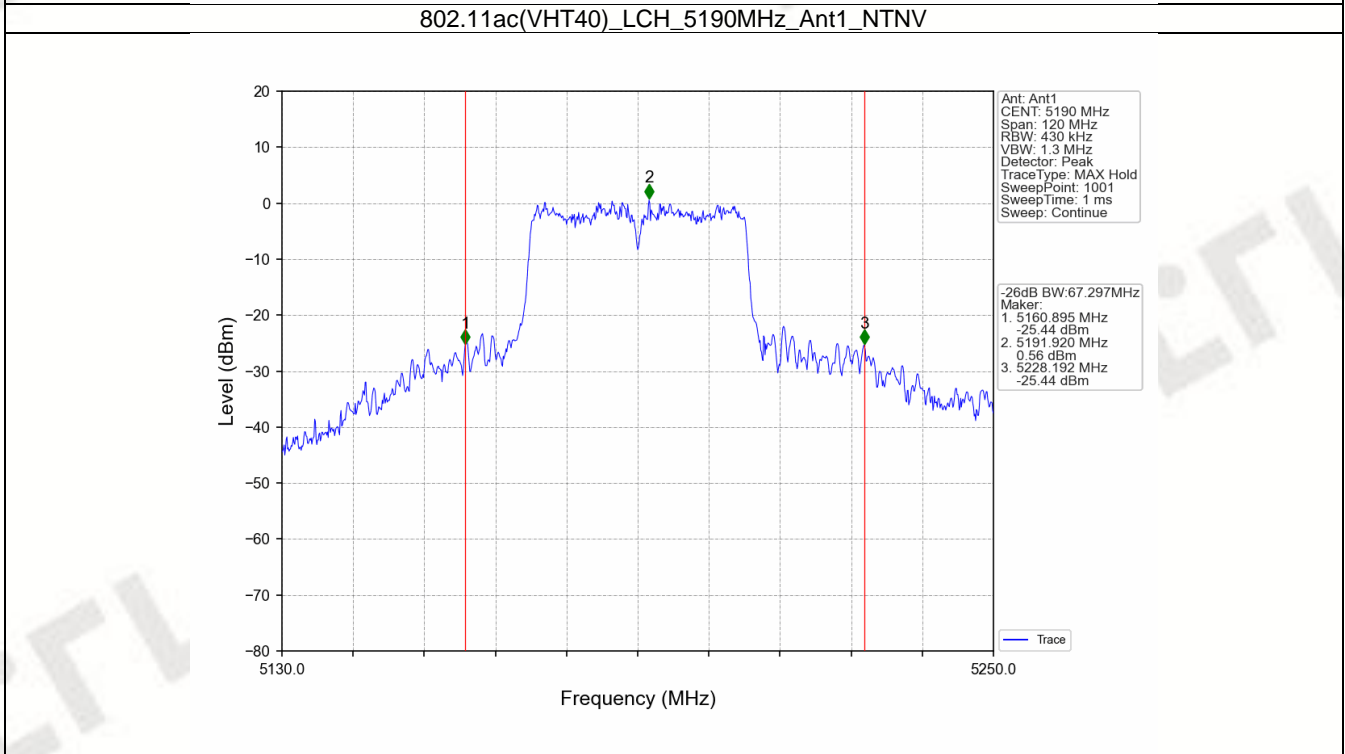
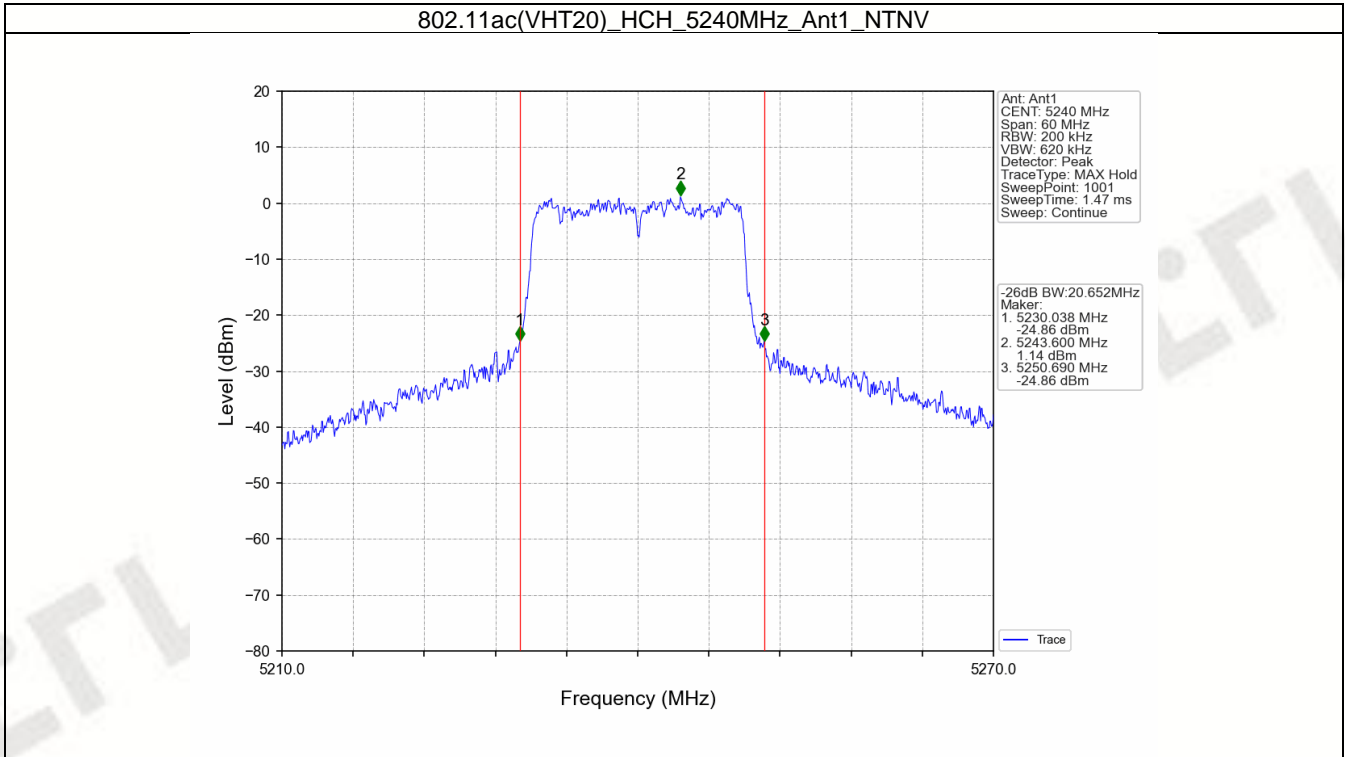
FCCID: 2AP6Y-SK4MINI



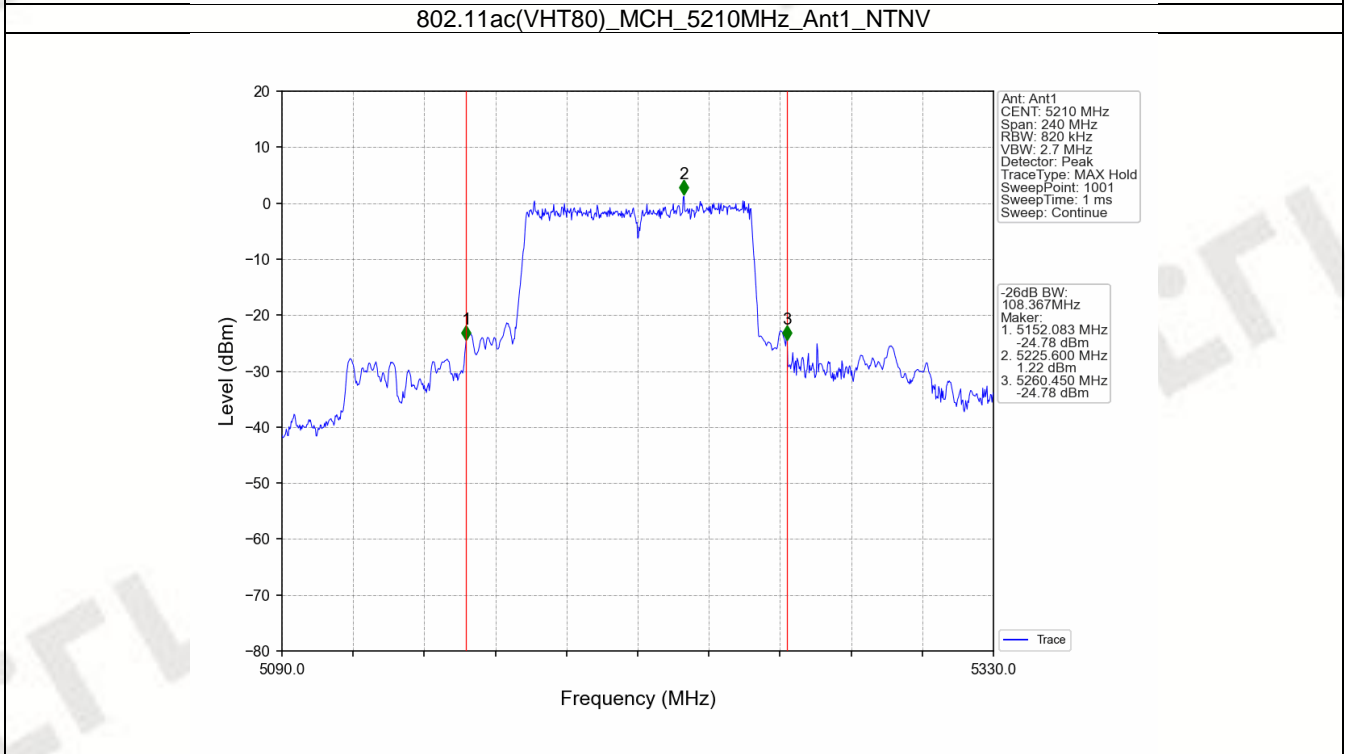
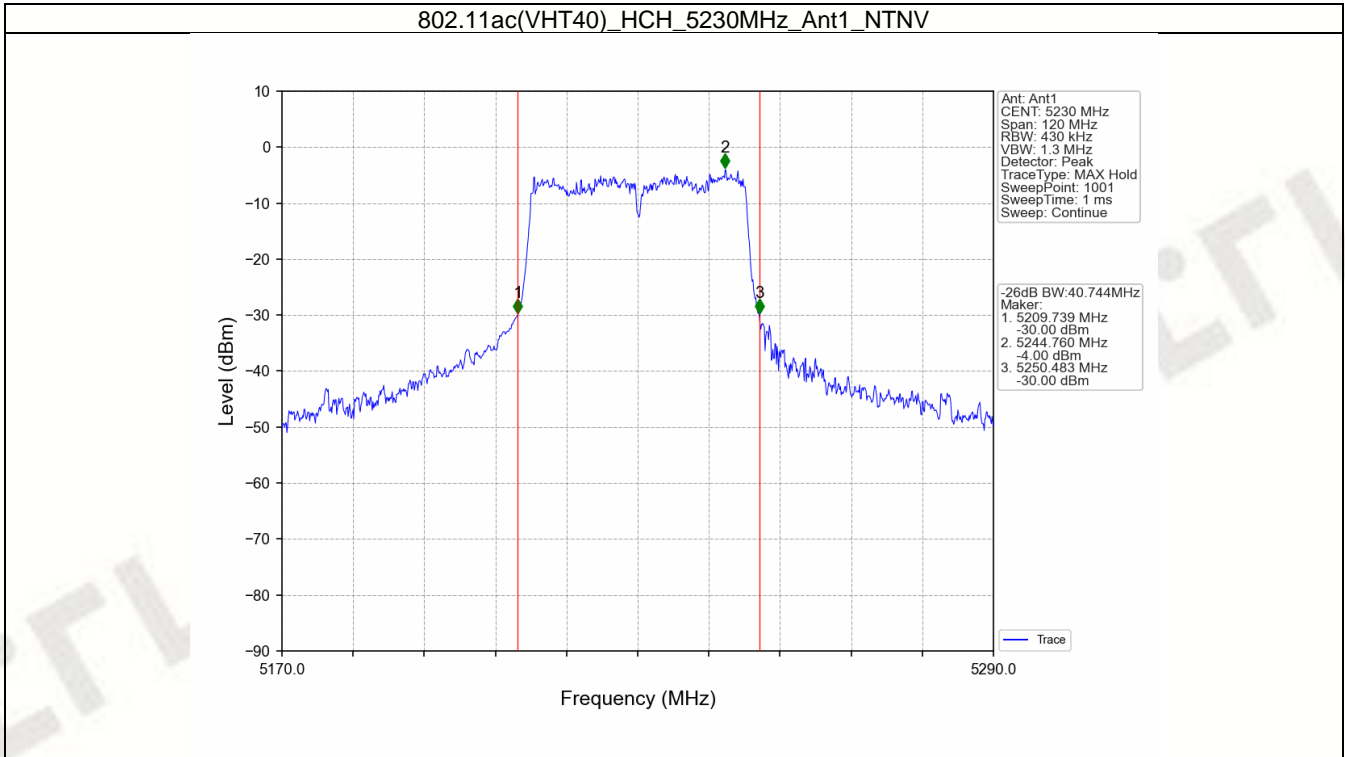
FCCID: 2AP6Y-SK4MINI



FCCID: 2AP6Y-SK4MINI



FCCID: 2AP6Y-SK4MINI



FCCID: 2AP6Y-SK4MINI

2. Maximum Conducted Output Power

2.1 Power

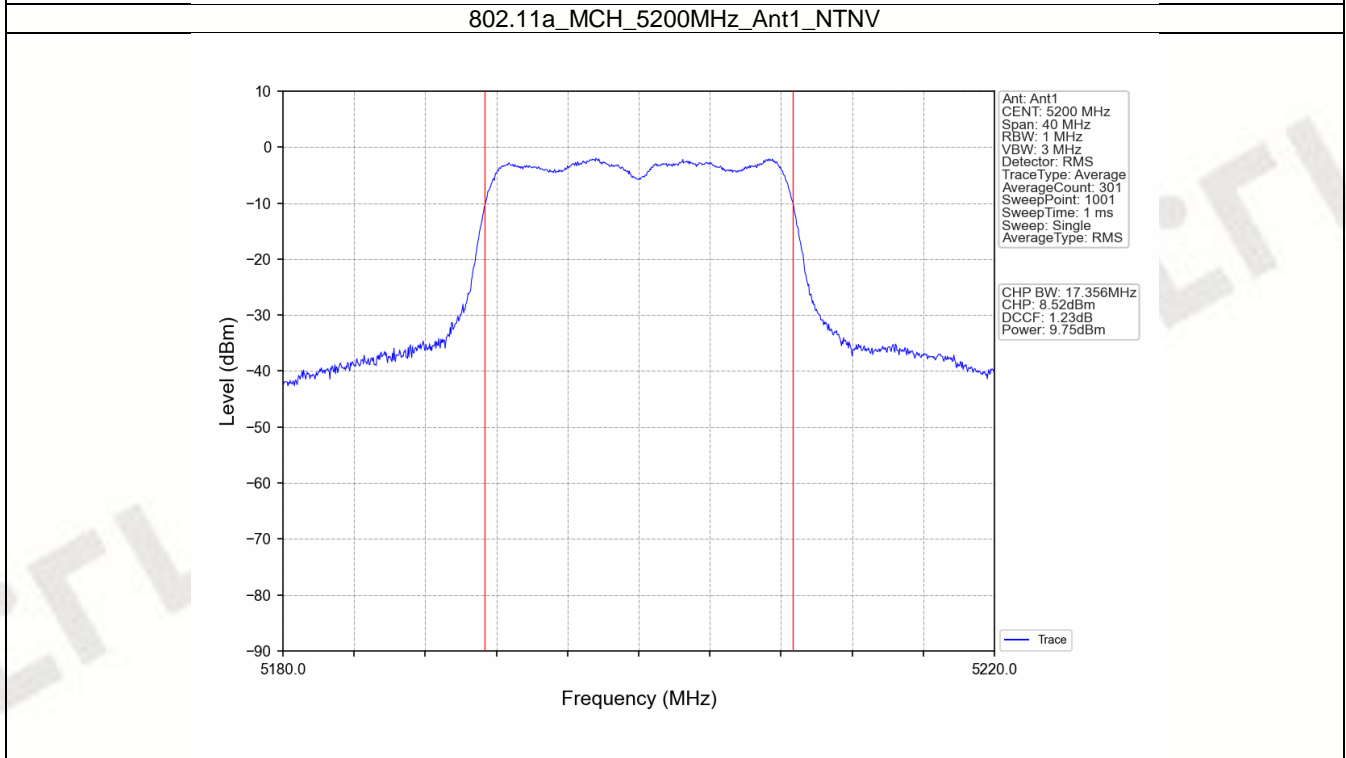
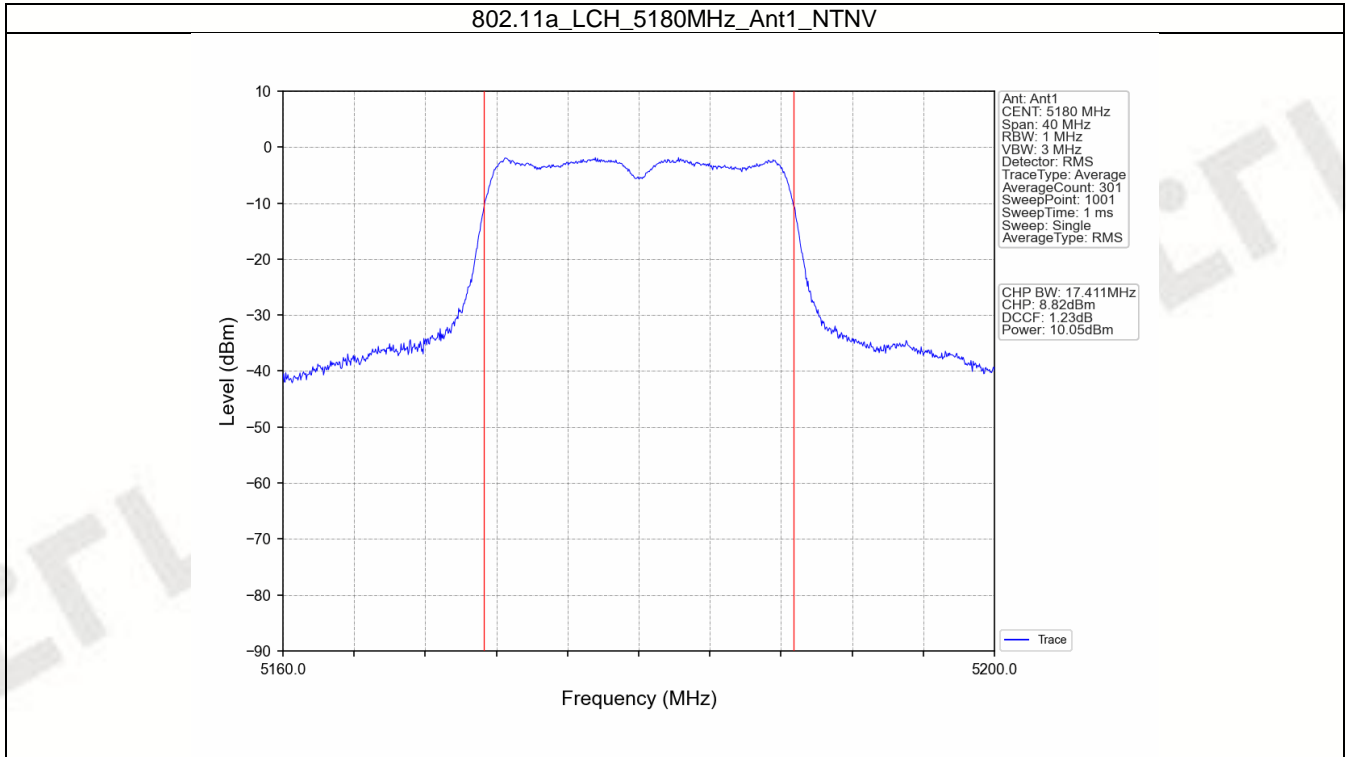
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	10.05	<=23.98	Pass
		5200	9.75	<=23.98	Pass
		5240	10.47	<=23.98	Pass
802.11n (HT20)	SISO	5180	10.28	<=23.98	Pass
		5200	9.98	<=23.98	Pass
		5240	10.61	<=23.98	Pass
802.11n (HT40)	SISO	5190	10.13	<=23.98	Pass
		5230	10.48	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	10.22	<=23.98	Pass
		5200	9.95	<=23.98	Pass
		5240	10.49	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	10.04	<=23.98	Pass
		5230	5.28	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	10.50	<=23.98	Pass

Note1: Antenna Gain: Ant1: 4.20dBi;

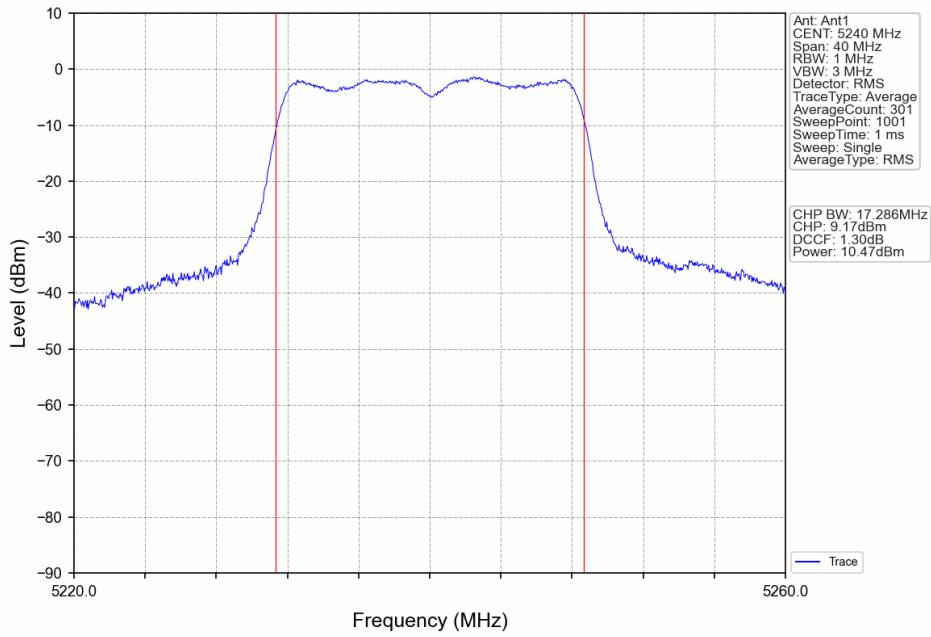
FCCID: 2AP6Y-SK4MINI

2.1.2 Test Graph

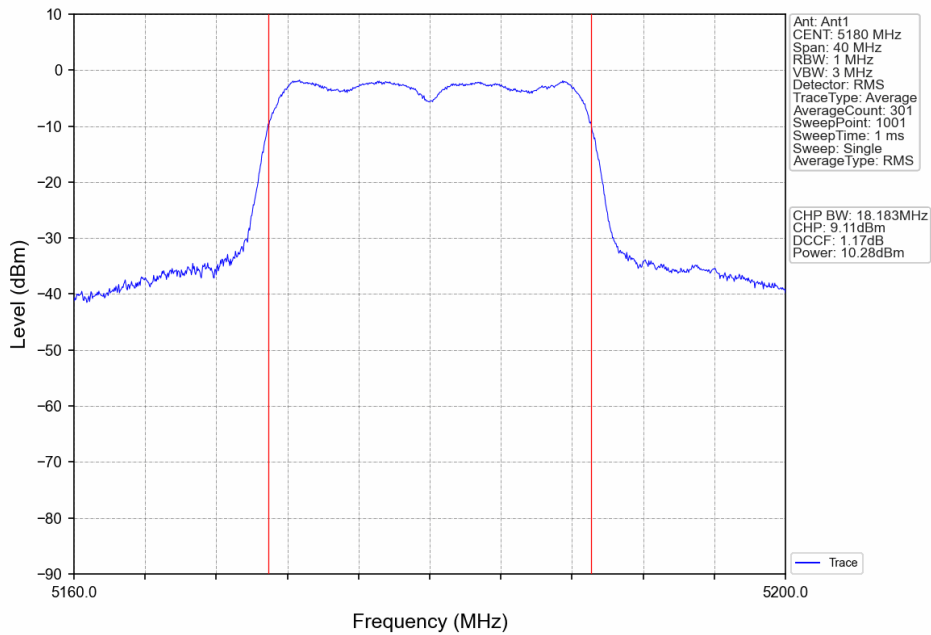


FCCID: 2AP6Y-SK4MINI

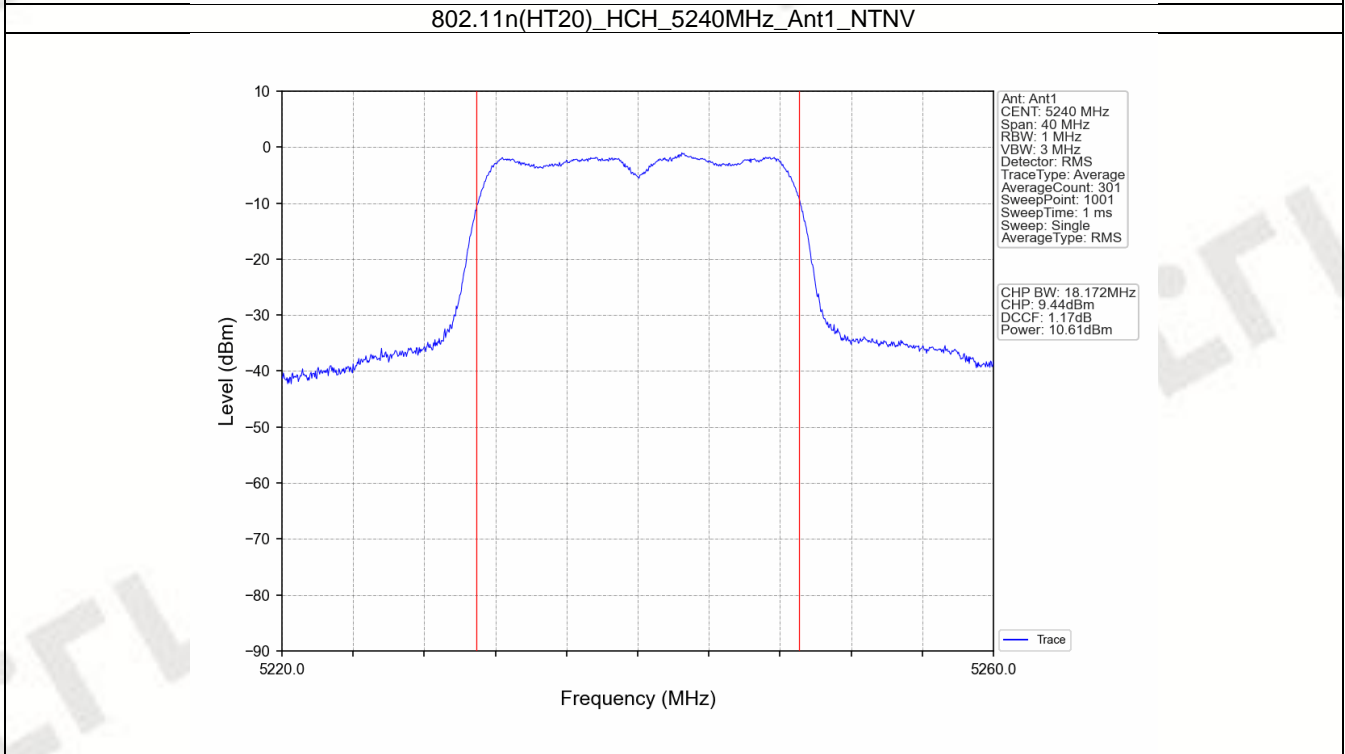
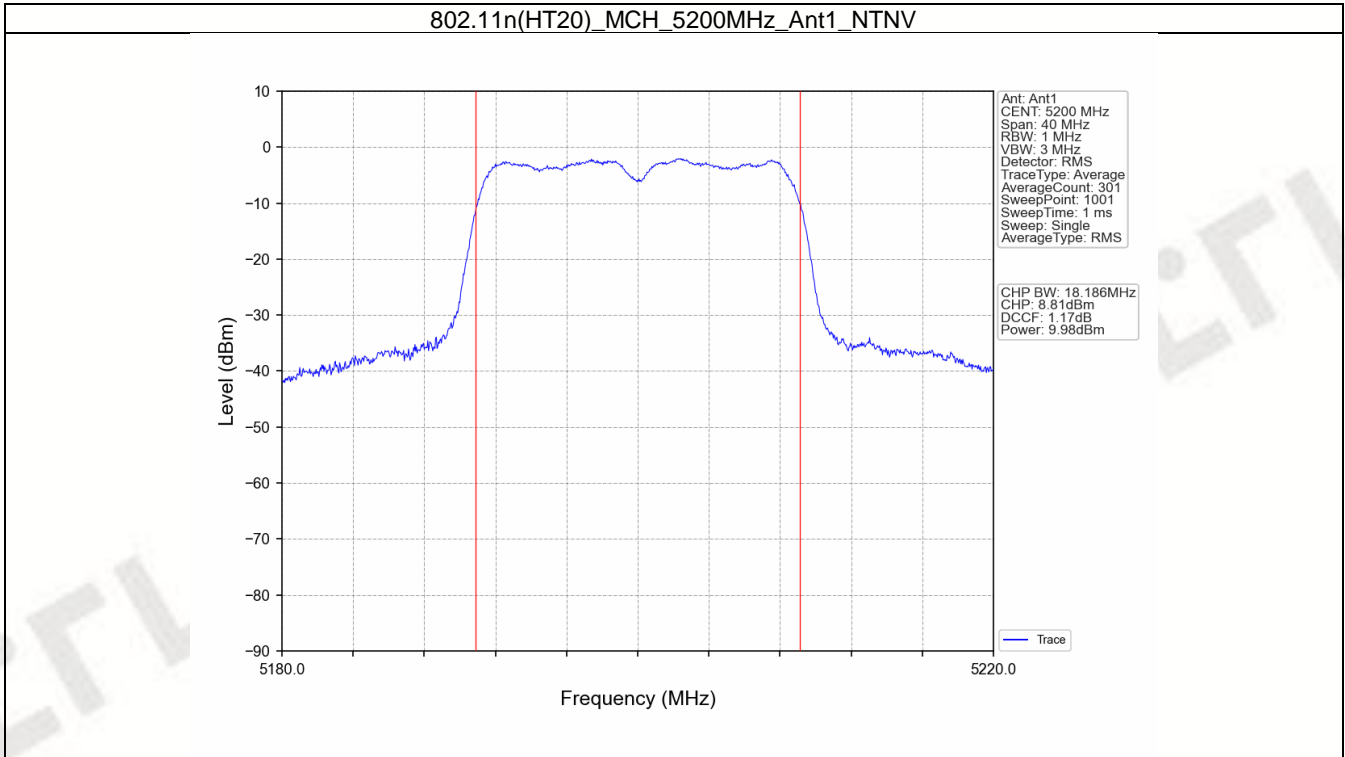
802.11a_HCH_5240MHz_Ant1_NTNV



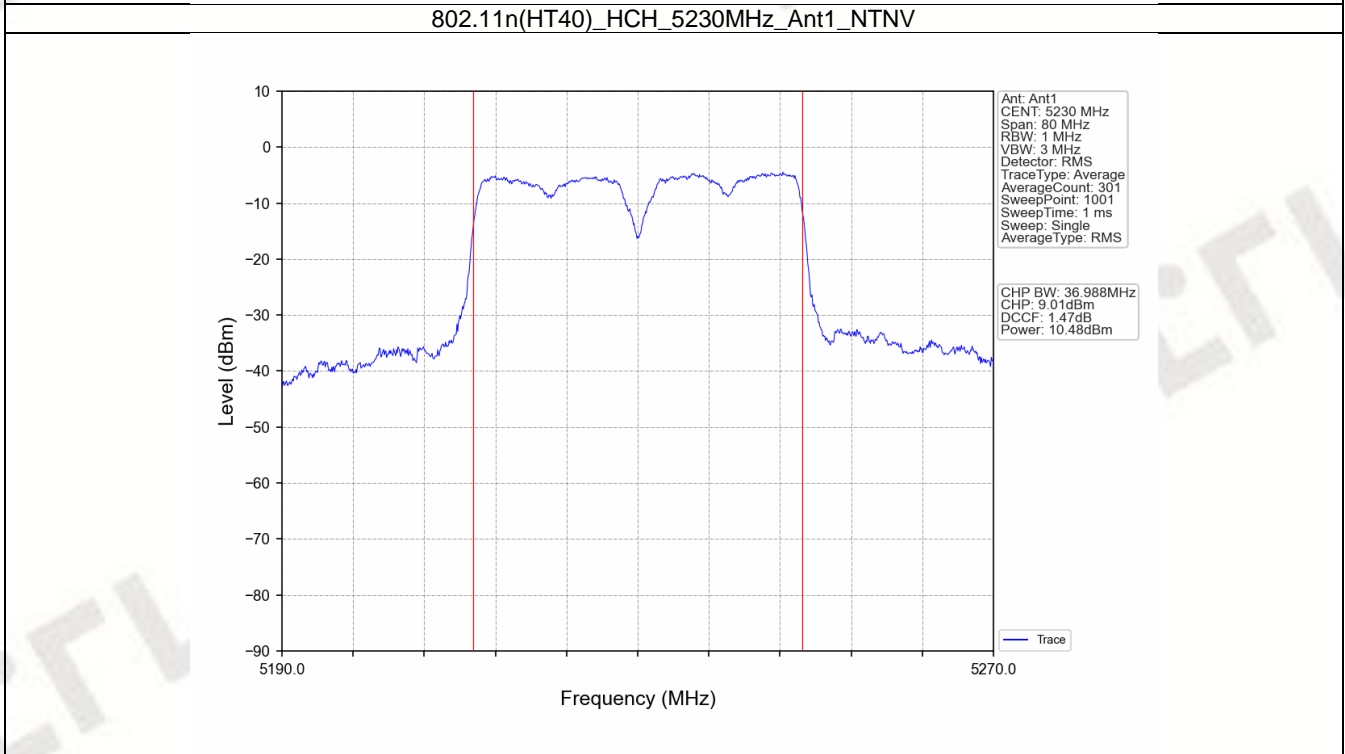
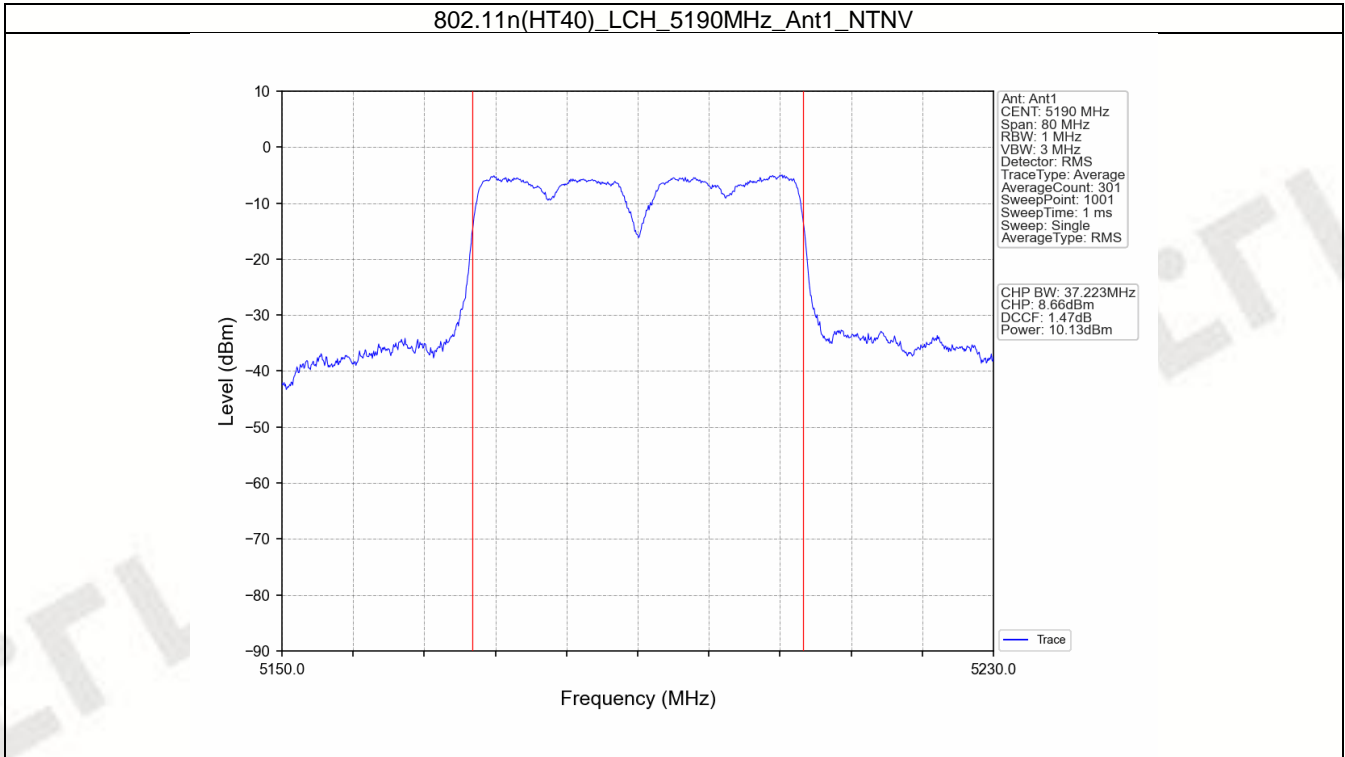
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



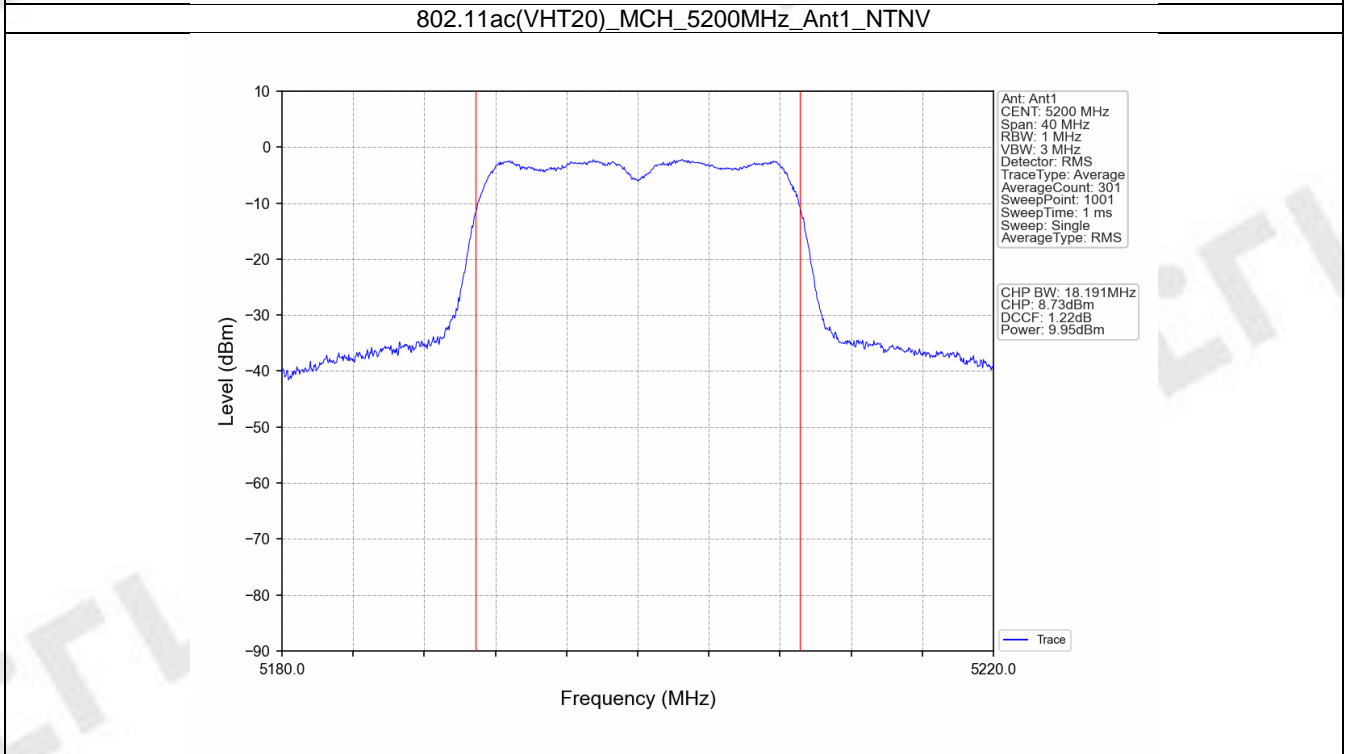
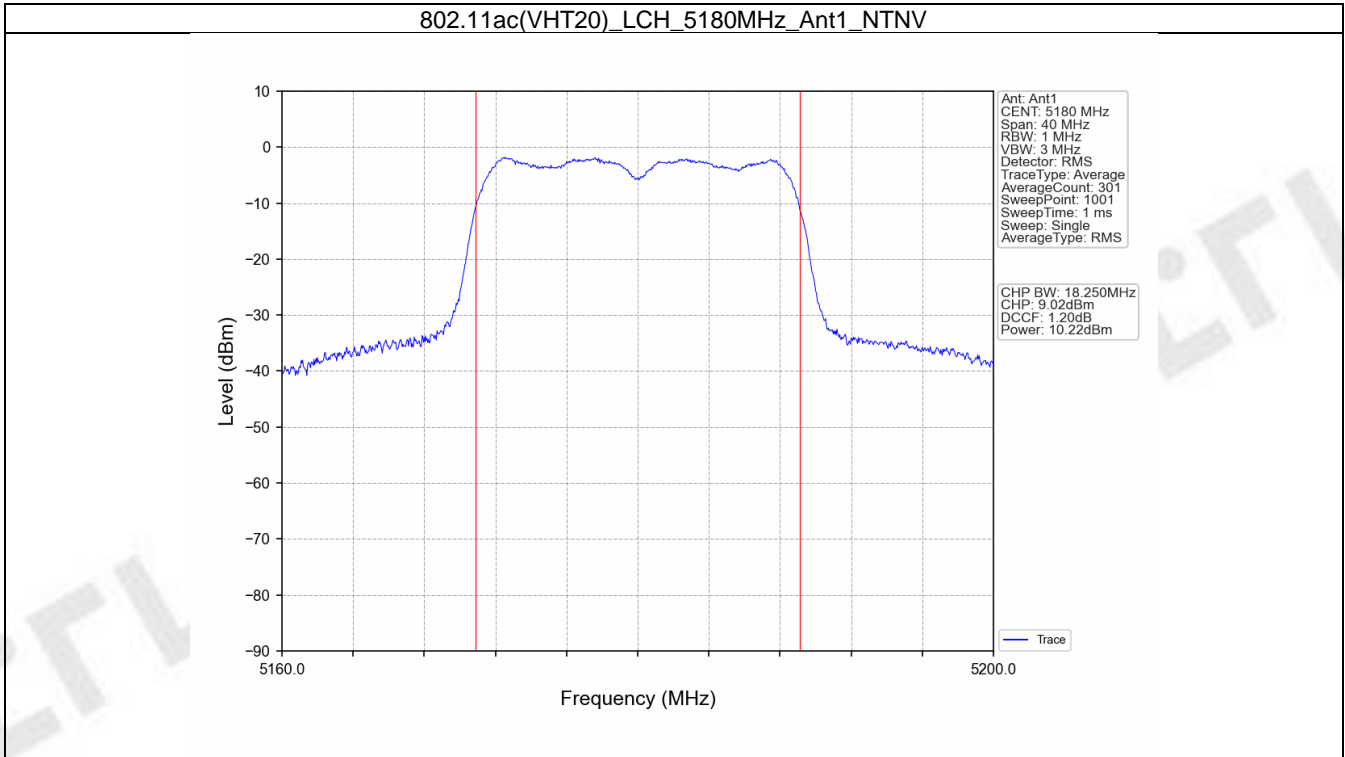
FCCID: 2AP6Y-SK4MINI



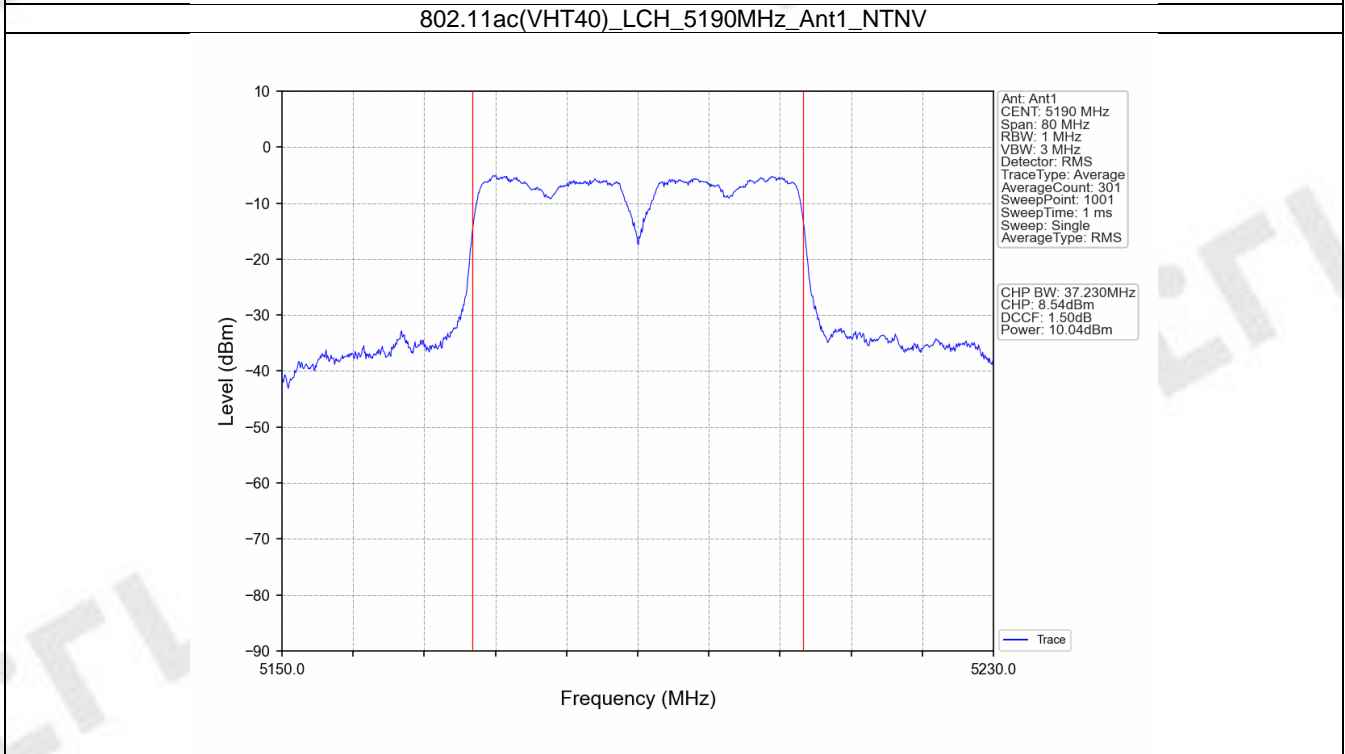
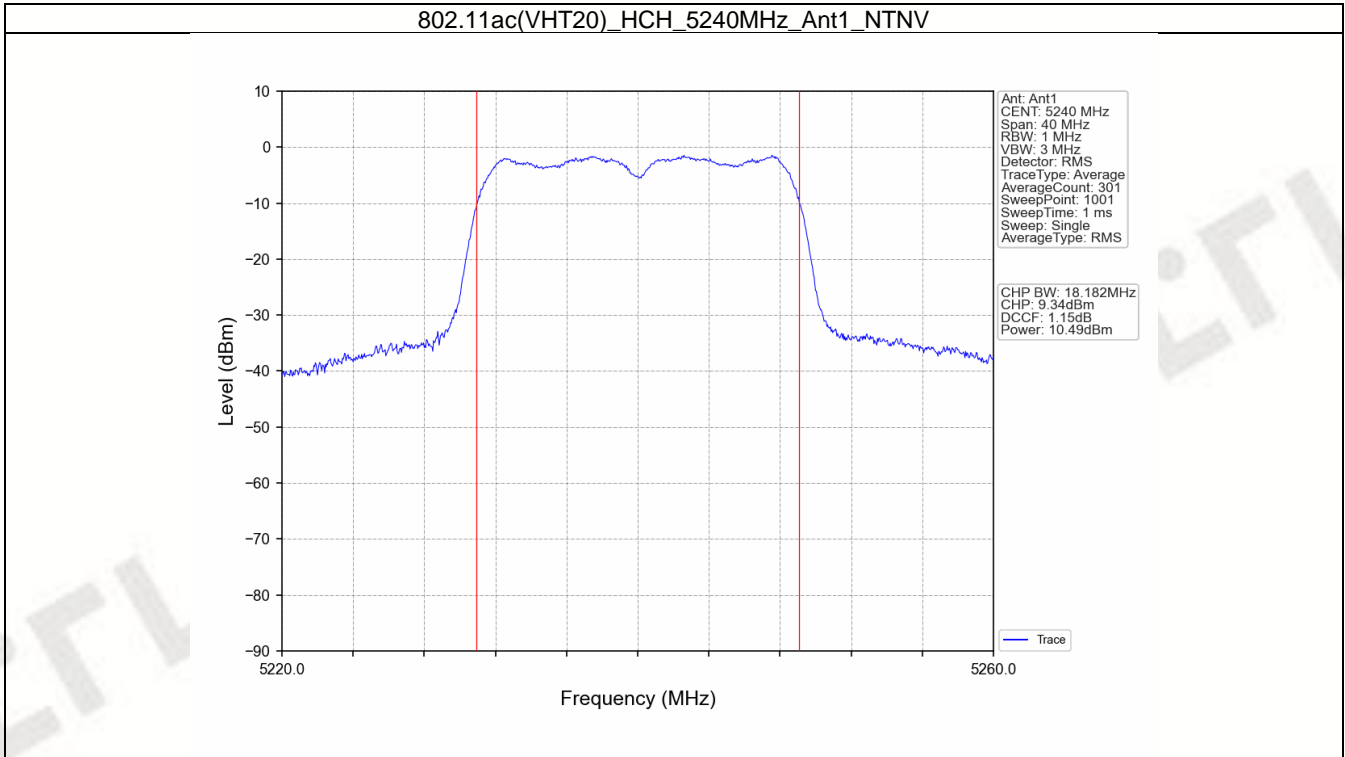
FCCID: 2AP6Y-SK4MINI



FCCID: 2AP6Y-SK4MINI

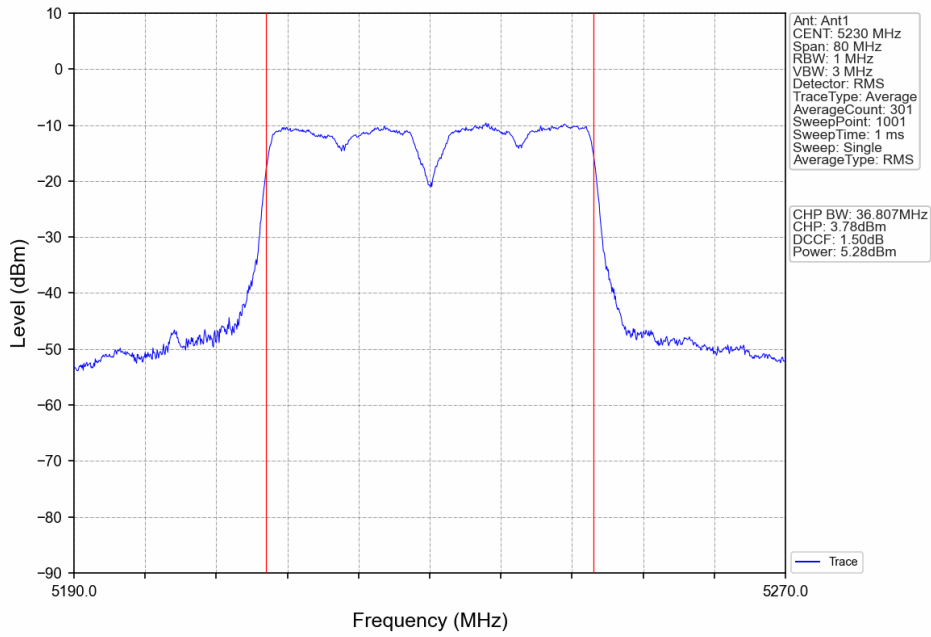


FCCID: 2AP6Y-SK4MINI

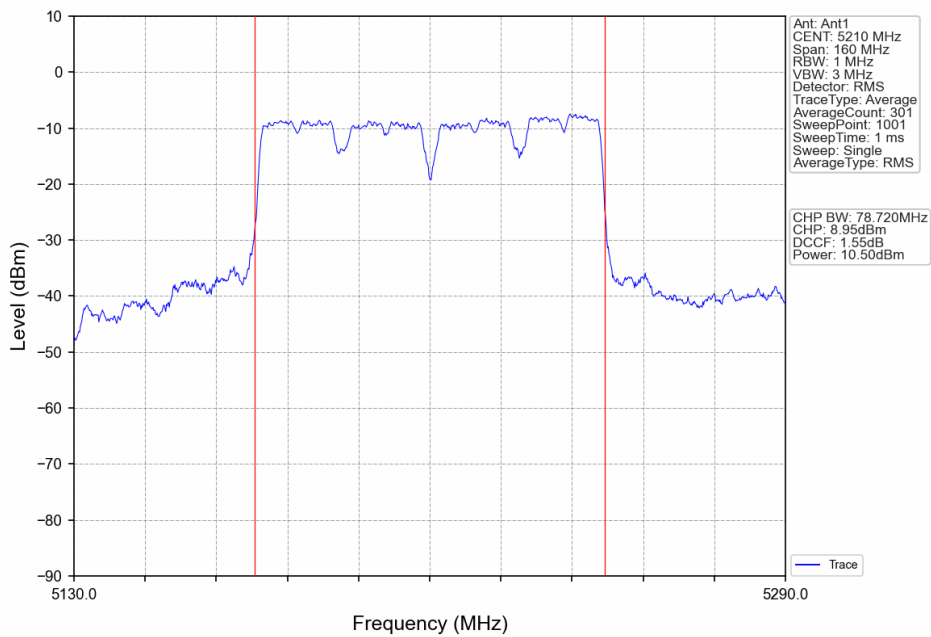


FCCID: 2AP6Y-SK4MINI

802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



FCCID: 2AP6Y-SK4MINI

3. Maximum Power Spectral Density

3.1 PSD

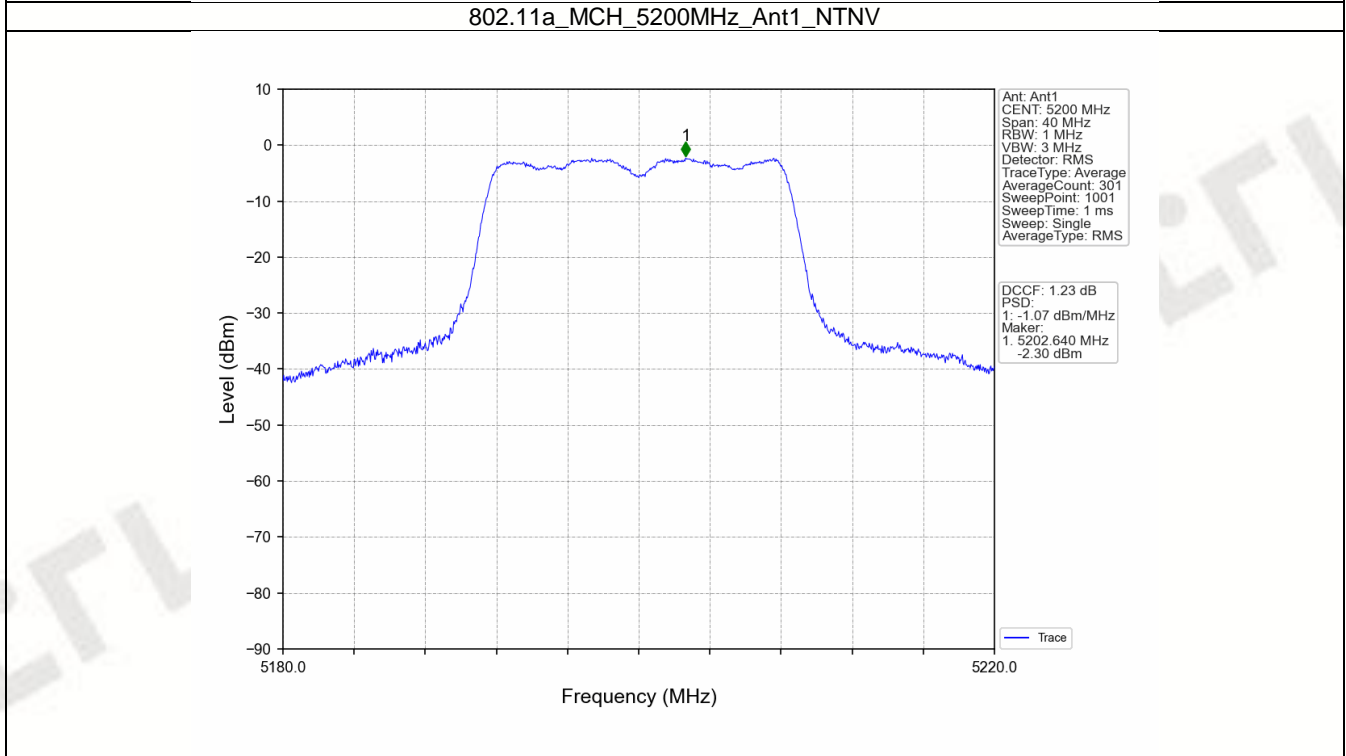
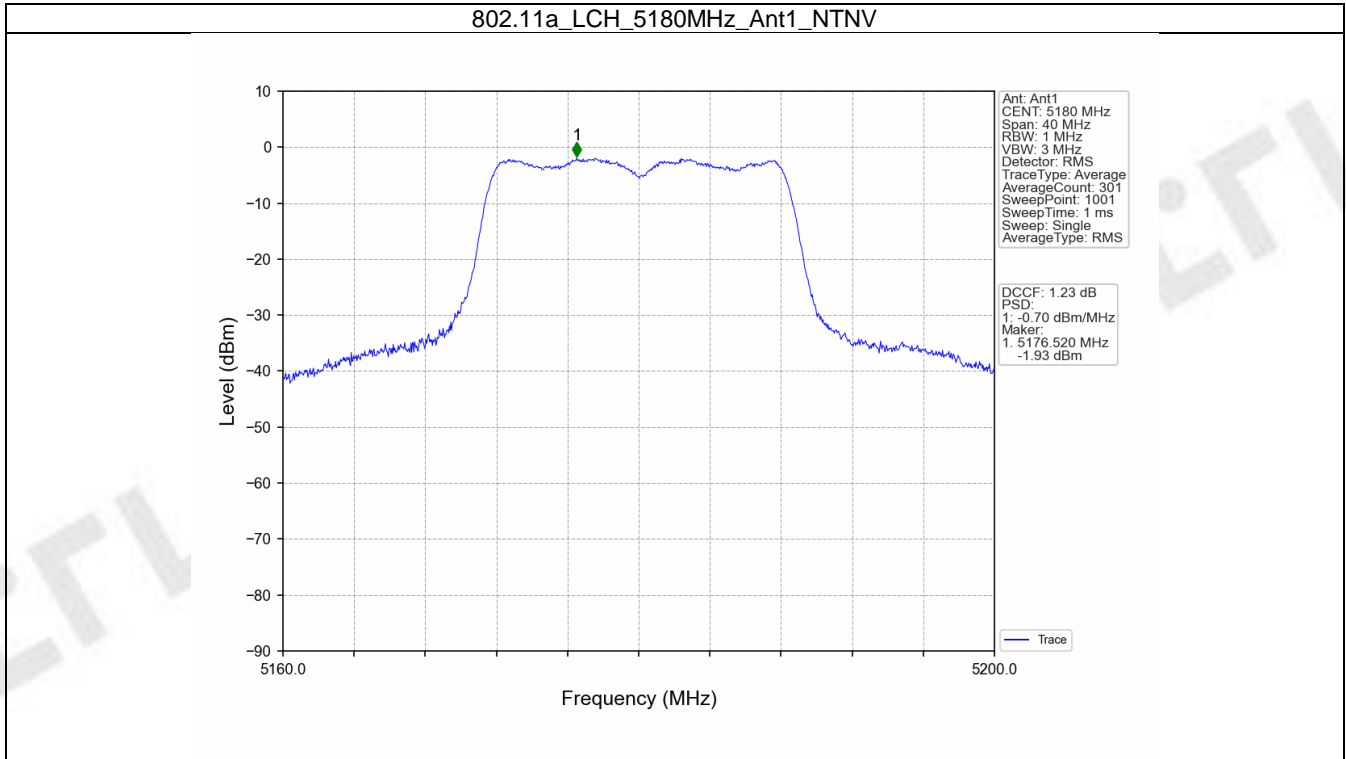
3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-0.70	<=11	Pass
		5200	-1.07	<=11	Pass
		5240	-0.20	<=11	Pass
802.11n (HT20)	SISO	5180	-0.47	<=11	Pass
		5200	-0.98	<=11	Pass
		5240	-0.14	<=11	Pass
802.11n (HT40)	SISO	5190	-3.57	<=11	Pass
		5230	-2.94	<=11	Pass
802.11ac (VHT20)	SISO	5180	-0.52	<=11	Pass
		5200	-0.77	<=11	Pass
		5240	-0.26	<=11	Pass
802.11ac (VHT40)	SISO	5190	-3.45	<=11	Pass
		5230	-8.21	<=11	Pass
802.11ac (VHT80)	SISO	5210	-6.12	<=11	Pass

Note1: Antenna Gain: Ant1: 4.20dBi;

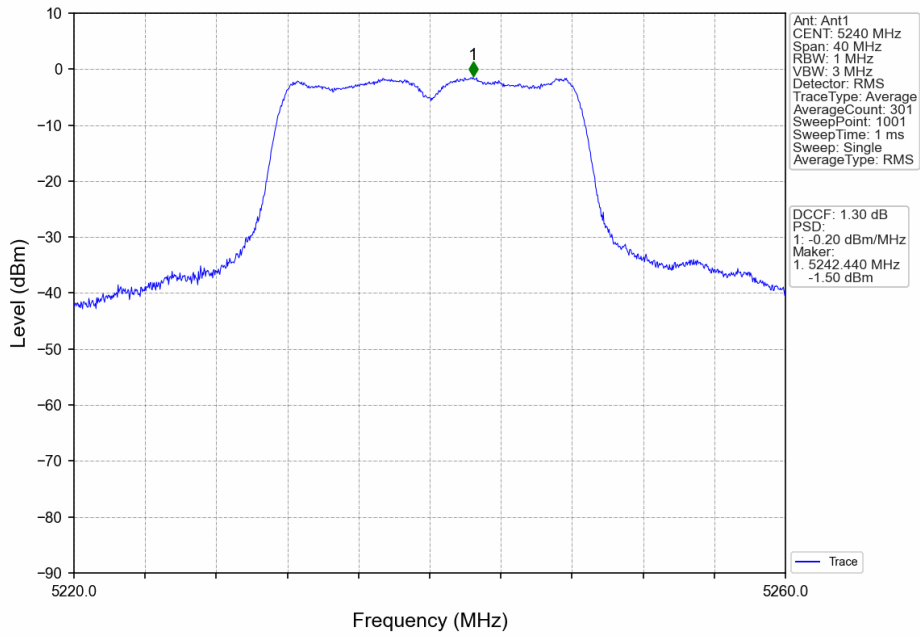
FCCID: 2AP6Y-SK4MINI

3.1.2 Test Graph

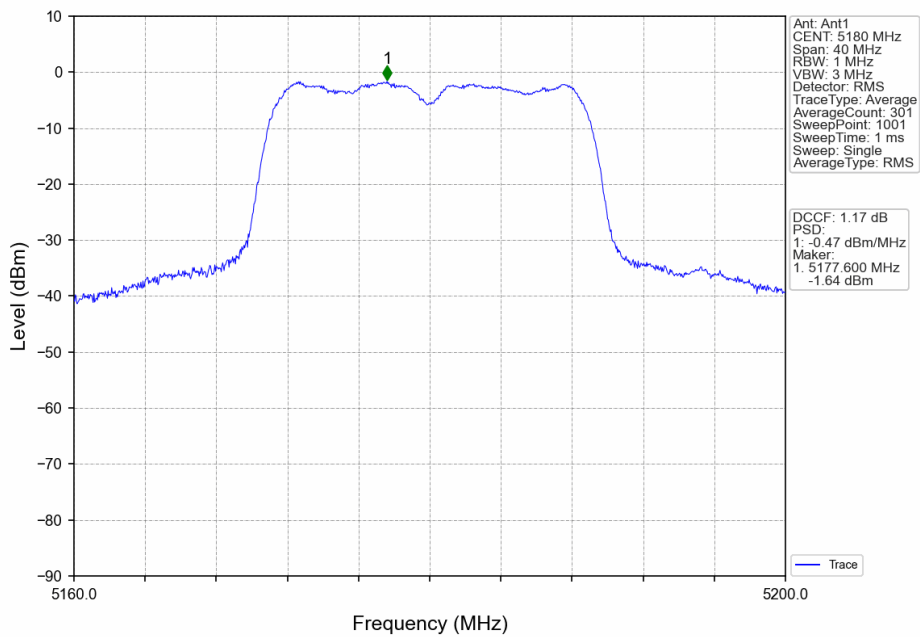


FCCID: 2AP6Y-SK4MINI

802.11a_HCH_5240MHz_Ant1_NTNV

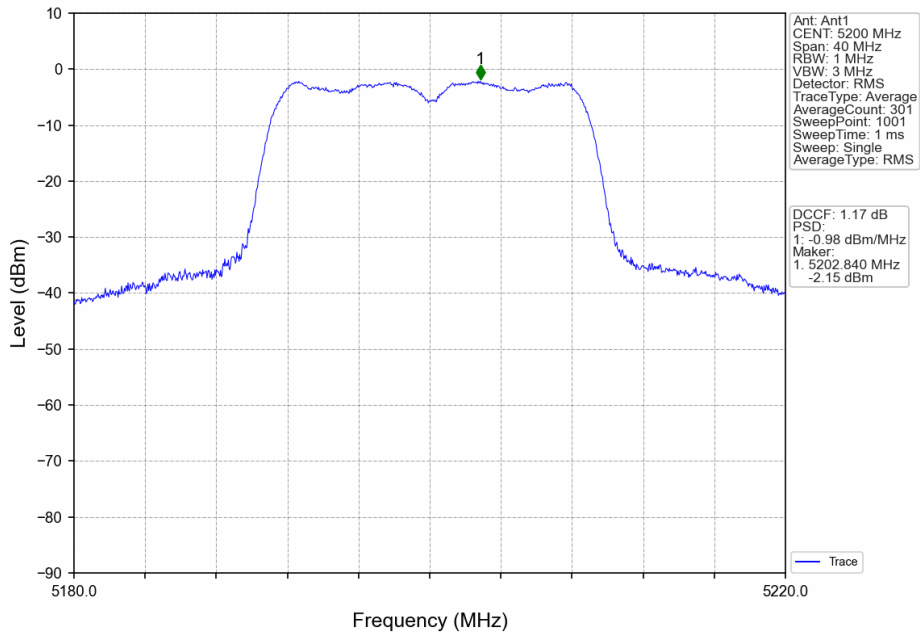


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

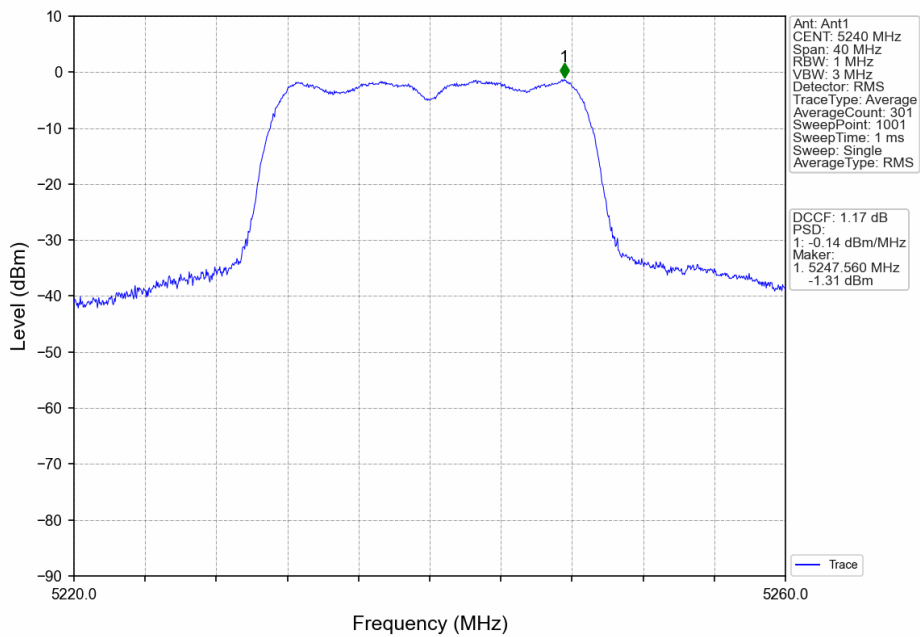


FCCID: 2AP6Y-SK4MINI

802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

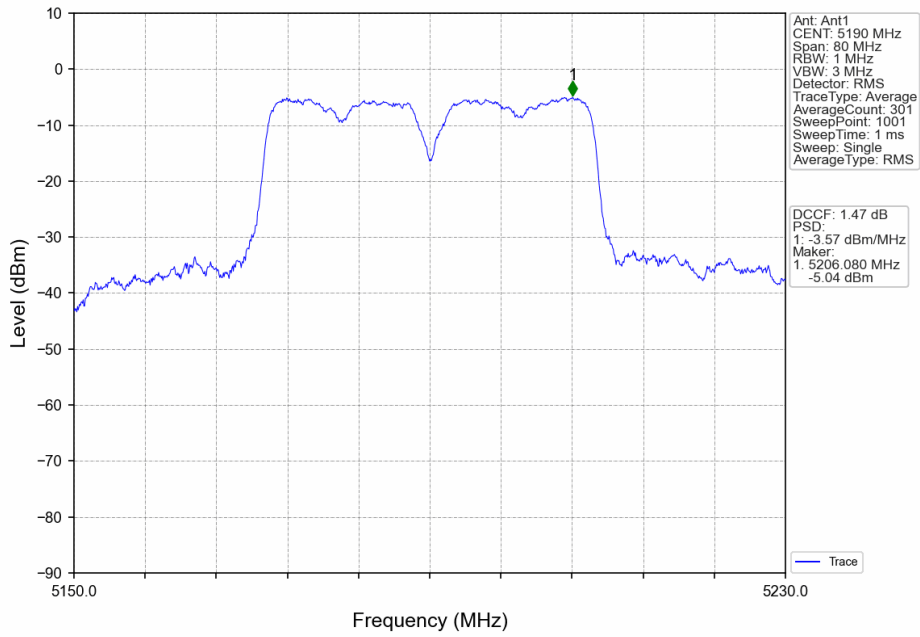


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

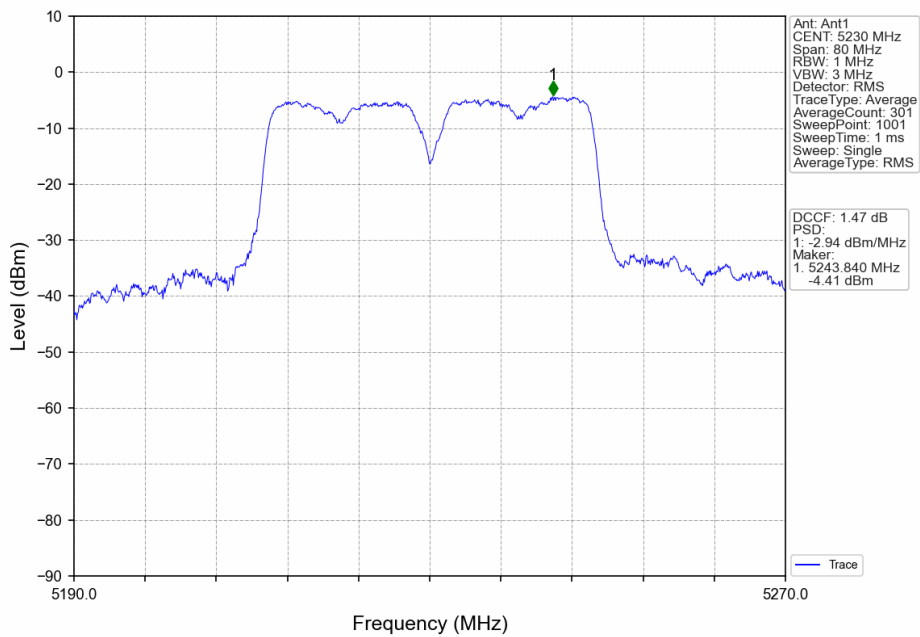


FCCID: 2AP6Y-SK4MINI

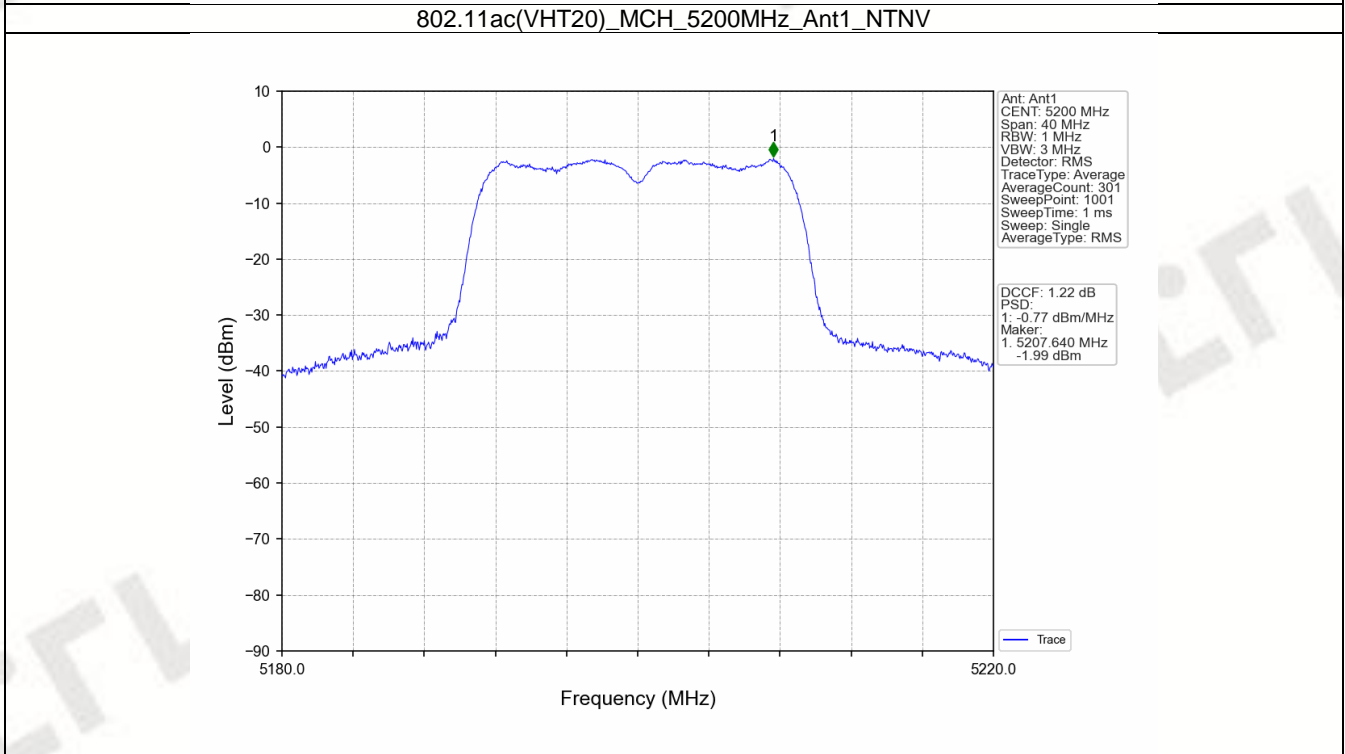
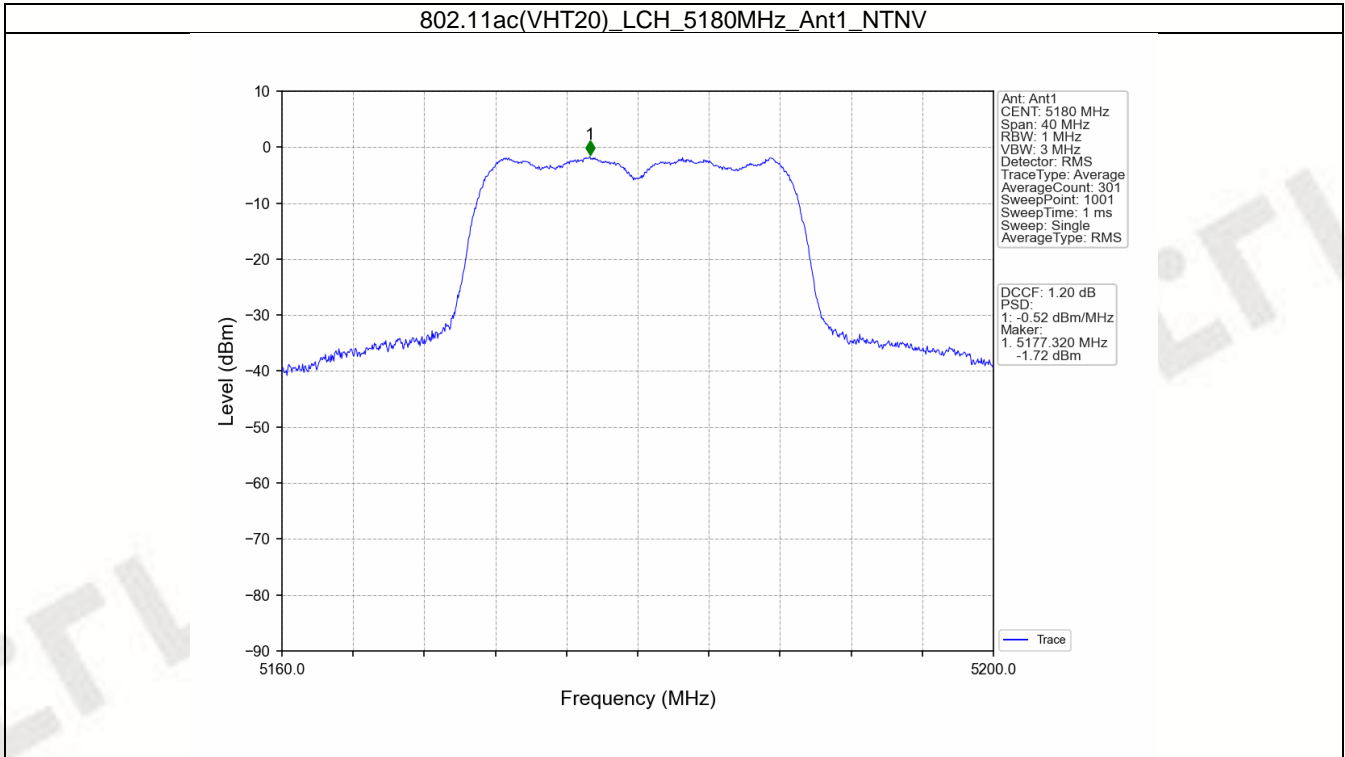
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



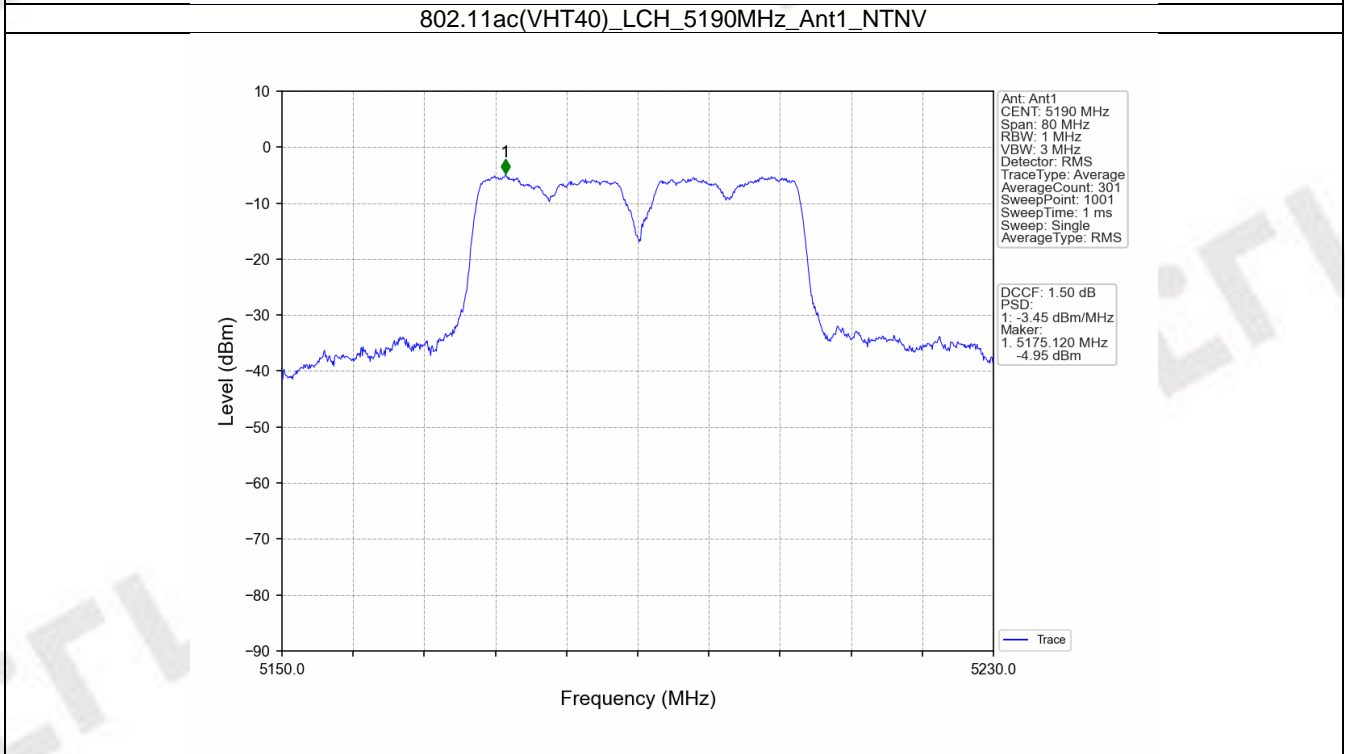
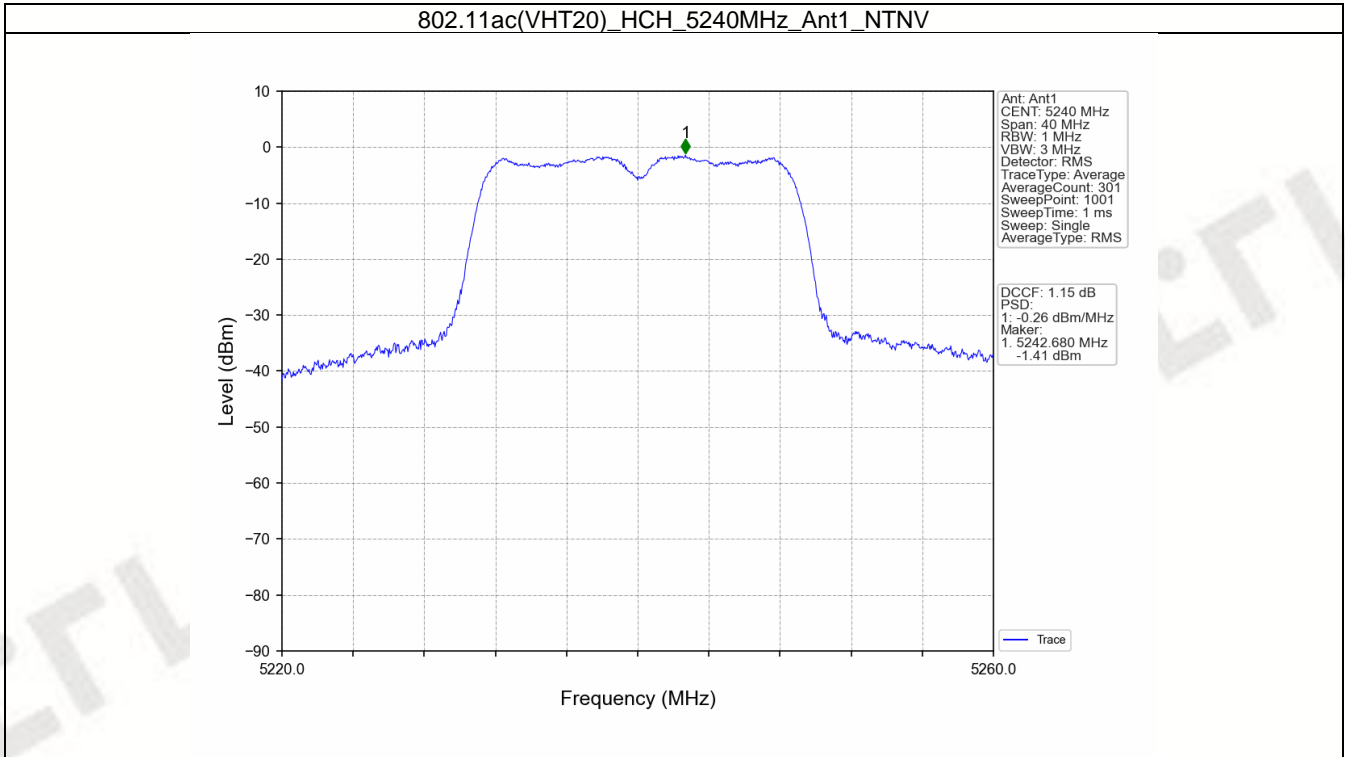
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



FCCID: 2AP6Y-SK4MINI

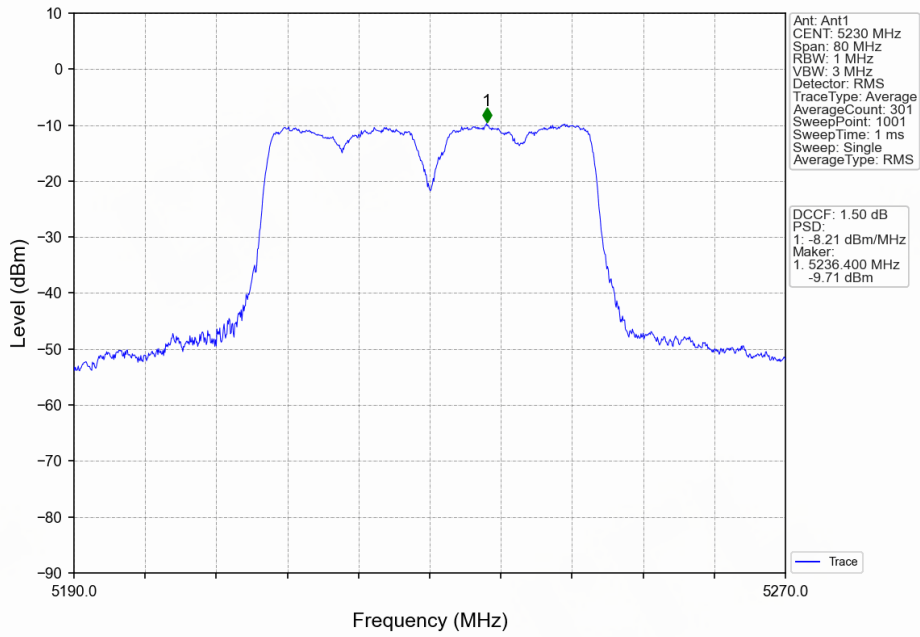


FCCID: 2AP6Y-SK4MINI

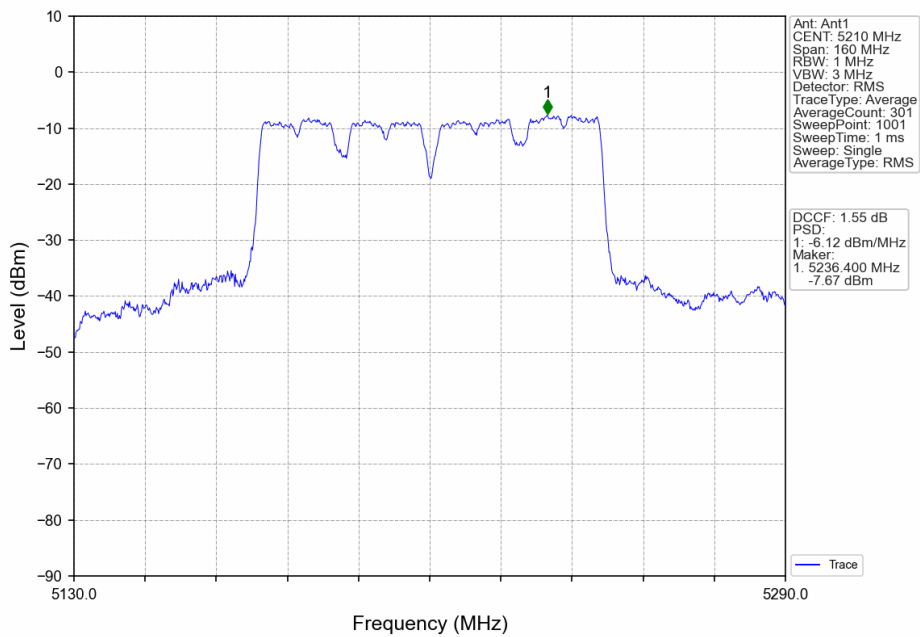


FCCID: 2AP6Y-SK4MINI

802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



FCCID: 2AP6Y-SK4MINI

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	5179.997	5150 to 5250	Pass	
				120	5179.997	5150 to 5250	Pass	
				138	5179.997	5150 to 5250	Pass	
			-30	120	5179.997	5150 to 5250	Pass	
				-20	120	5179.997	5150 to 5250	Pass
					120	5179.998	5150 to 5250	Pass
				-10	120	5179.997	5150 to 5250	Pass
					120	5179.998	5150 to 5250	Pass
					120	5179.998	5150 to 5250	Pass
				0	120	5179.997	5150 to 5250	Pass
					120	5179.998	5150 to 5250	Pass
					120	5179.998	5150 to 5250	Pass
		120	5179.998		5150 to 5250	Pass		
		120	5179.998		5150 to 5250	Pass		
		120	5179.998		5150 to 5250	Pass		
		5200	20	102	5199.997	5150 to 5250	Pass	
				120	5199.997	5150 to 5250	Pass	
				138	5199.998	5150 to 5250	Pass	
			-30	120	5199.998	5150 to 5250	Pass	
				-20	120	5199.998	5150 to 5250	Pass
					120	5199.998	5150 to 5250	Pass
				-10	120	5199.998	5150 to 5250	Pass
					120	5199.998	5150 to 5250	Pass
					120	5199.998	5150 to 5250	Pass
				0	120	5199.998	5150 to 5250	Pass
					120	5199.998	5150 to 5250	Pass
					120	5199.998	5150 to 5250	Pass
		120	5199.998		5150 to 5250	Pass		
		120	5199.998		5150 to 5250	Pass		
		120	5199.998		5150 to 5250	Pass		
		5240	20	102	5239.998	5150 to 5250	Pass	
				120	5239.998	5150 to 5250	Pass	
				138	5239.998	5150 to 5250	Pass	
			-30	120	5239.998	5150 to 5250	Pass	
				-20	120	5239.998	5150 to 5250	Pass
					120	5239.998	5150 to 5250	Pass
				-10	120	5239.999	5150 to 5250	Pass
					120	5239.999	5150 to 5250	Pass
					120	5239.999	5150 to 5250	Pass
				0	120	5239.999	5150 to 5250	Pass
					120	5239.999	5150 to 5250	Pass
					120	5239.999	5150 to 5250	Pass
120	5239.999	5150 to 5250	Pass					
120	5239.999	5150 to 5250	Pass					
120	5239.999	5150 to 5250	Pass					
5190	20	102	5189.998	5150 to 5250	Pass			
		120	5189.999	5150 to 5250	Pass			
		138	5189.999	5150 to 5250	Pass			
	-30	120	5189.999	5150 to 5250	Pass			
		-20	120	5189.999	5150 to 5250	Pass		
			120	5189.999	5150 to 5250	Pass		
		-10	120	5189.999	5150 to 5250	Pass		
			120	5189.998	5150 to 5250	Pass		
			120	5189.999	5150 to 5250	Pass		
		0	120	5189.999	5150 to 5250	Pass		
			120	5189.999	5150 to 5250	Pass		
			120	5189.999	5150 to 5250	Pass		
120	5189.999		5150 to 5250	Pass				
120	5189.999		5150 to 5250	Pass				
120	5189.999		5150 to 5250	Pass				
5230	20	102	5229.998	5150 to 5250	Pass			

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			120	5229.998	5150 to 5250	Pass	
			138	5229.999	5150 to 5250	Pass	
		-30	120	5229.999	5150 to 5250	Pass	
		-20	120	5229.999	5150 to 5250	Pass	
		-10	120	5229.999	5150 to 5250	Pass	
		0	120	5229.999	5150 to 5250	Pass	
		10	120	5229.999	5150 to 5250	Pass	
		30	120	5229.999	5150 to 5250	Pass	
		40	120	5229.999	5150 to 5250	Pass	
		50	120	5229.999	5150 to 5250	Pass	
		5210	20	102	5209.999	5150 to 5250	Pass
				120	5209.999	5150 to 5250	Pass
				138	5209.999	5150 to 5250	Pass
			-30	120	5210.000	5150 to 5250	Pass
			-20	120	5210.000	5150 to 5250	Pass
			-10	120	5210.000	5150 to 5250	Pass
			0	120	5210.000	5150 to 5250	Pass
			10	120	5210.000	5150 to 5250	Pass
			30	120	5210.000	5150 to 5250	Pass
			40	120	5210.000	5150 to 5250	Pass
			50	120	5210.000	5150 to 5250	Pass