

## 4. Maximum Power Spectral Density

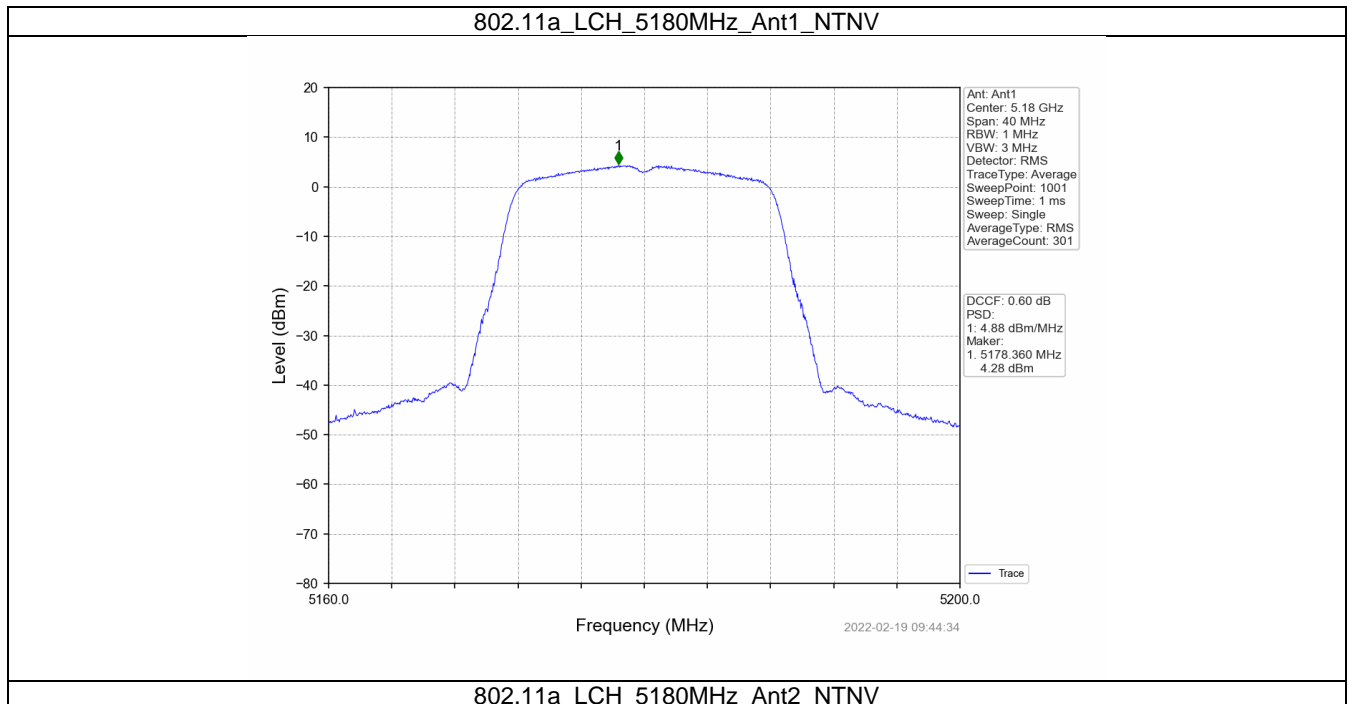
### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11a	SISO	5180	4.88	2.78	/	<=11	Pass
		5200	3.98	3.33	/	<=11	Pass
		5240	3.98	3.91	/	<=11	Pass
802.11n (HT20)	MIMO	5180	-0.62	2.04	3.78	<=10.83	Pass
		5200	-1.27	2.06	3.64	<=10.83	Pass
		5240	-1.83	2.70	3.94	<=10.83	Pass
802.11n (HT40)	MIMO	5190	-3.74	-0.87	0.83	<=10.83	Pass
		5230	-4.23	-0.46	1.02	<=10.83	Pass
802.11ac (VHT20)	MIMO	5180	-0.10	2.26	4.08	<=10.83	Pass
		5200	-0.76	2.21	3.93	<=10.83	Pass
		5240	-1.58	2.49	3.84	<=10.83	Pass
802.11ac (VHT40)	MIMO	5190	-3.23	-2.57	0.00	<=10.83	Pass
		5230	-3.97	-2.31	-0.22	<=10.83	Pass
802.11ac (VHT80)	MIMO	5210	-6.26	-5.78	-3.04	<=10.83	Pass

Note1: Antenna Gain: Ant1: 3.17dBi; Ant2: 3.14dBi;  
 Note2: Directional Gain: 6.17dBi

#### 4.1.2 Test Graph

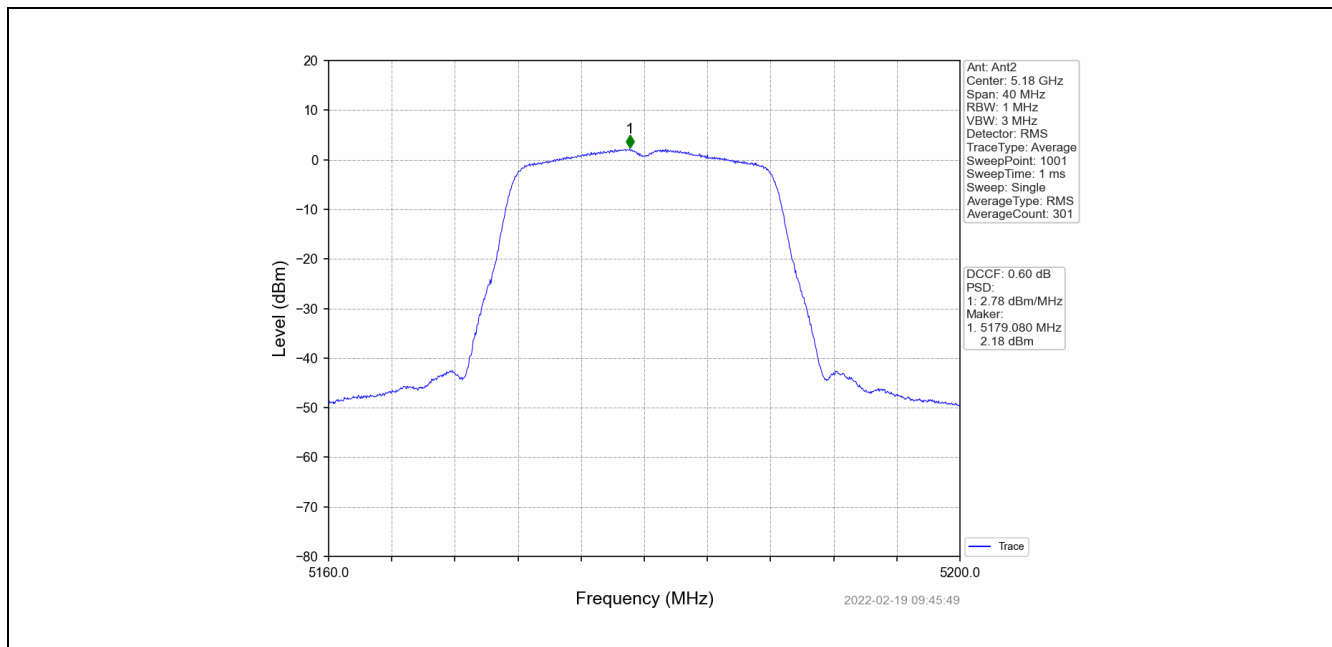


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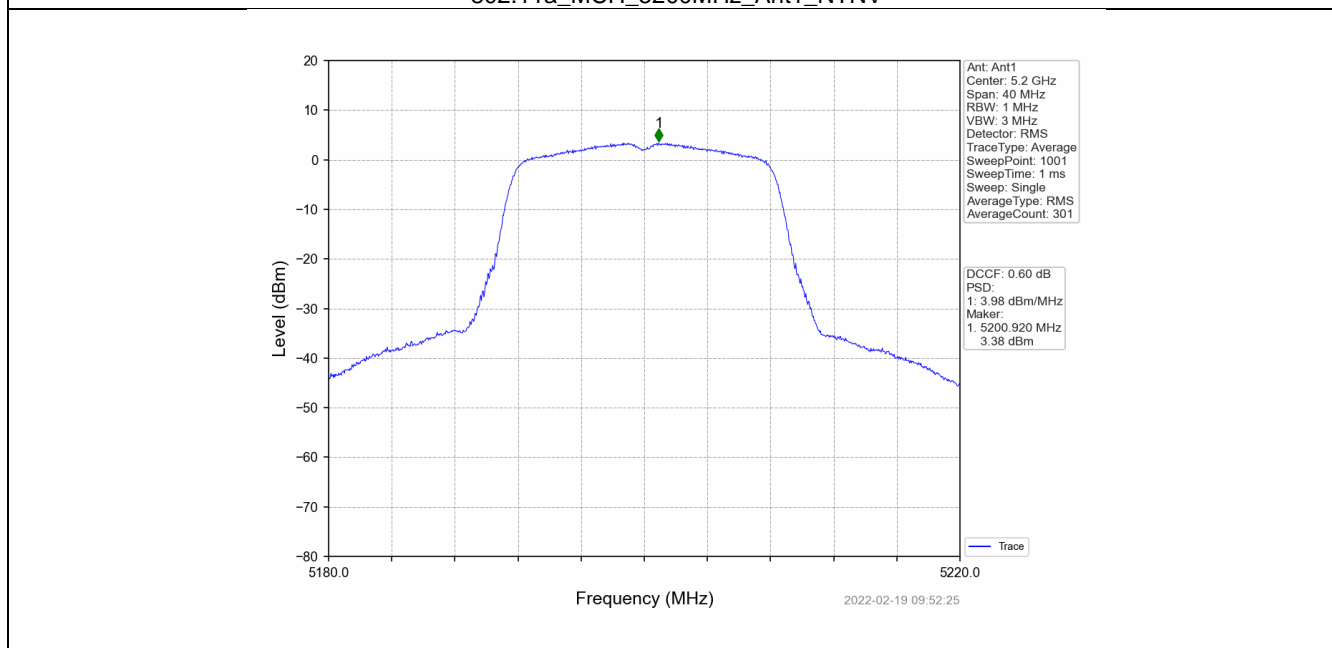
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802.11a\_MCH\_5200MHz\_Ant1\_NTNV



802.11a\_MCH\_5200MHz\_Ant2\_NTNV

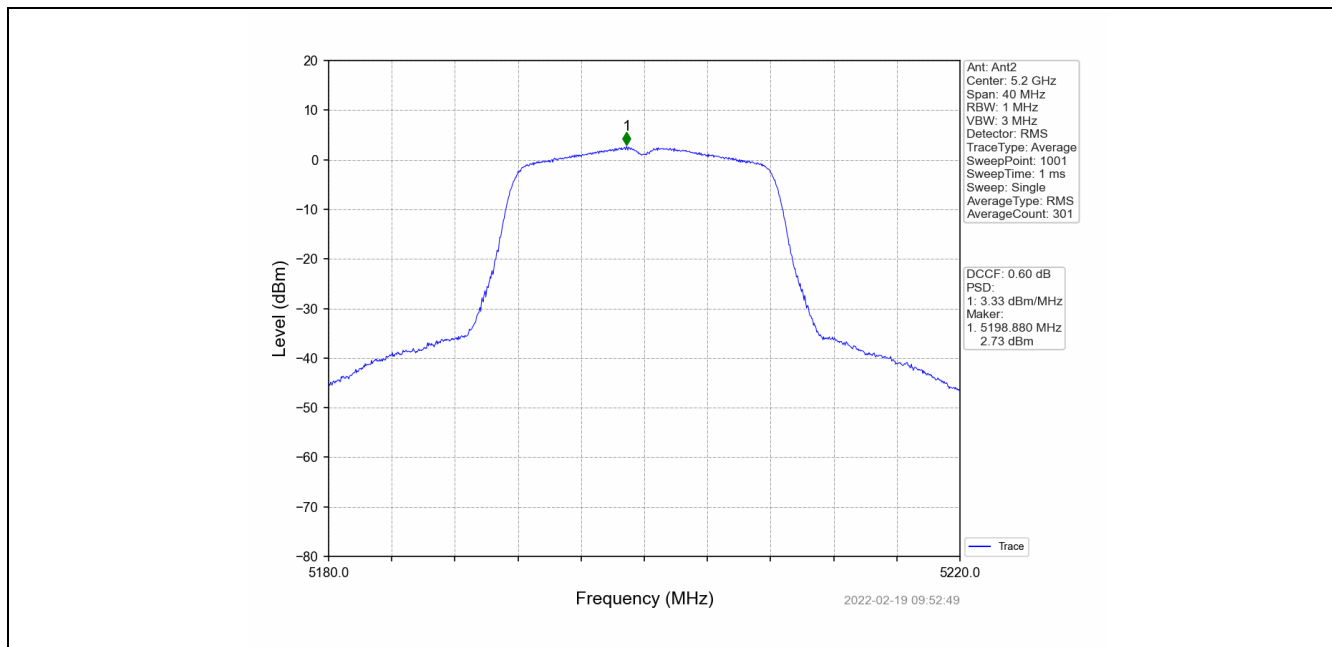


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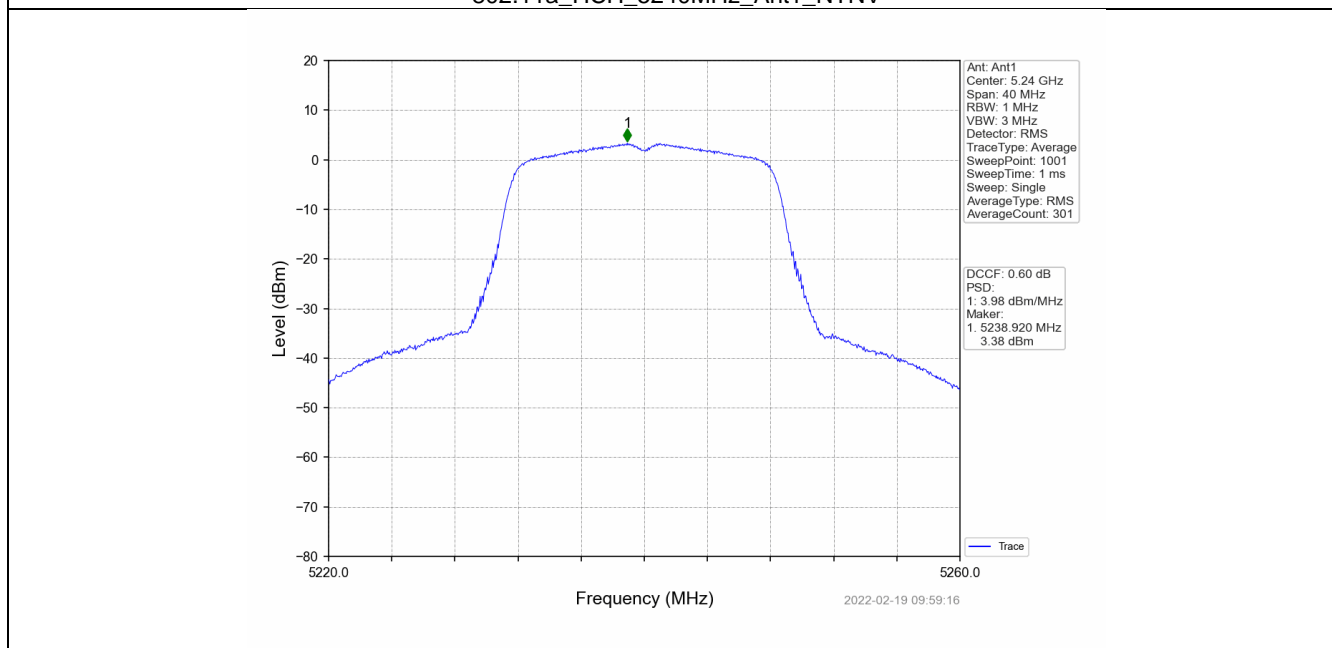
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



802.11a\_HCH\_5240MHz\_Ant2\_NTNV

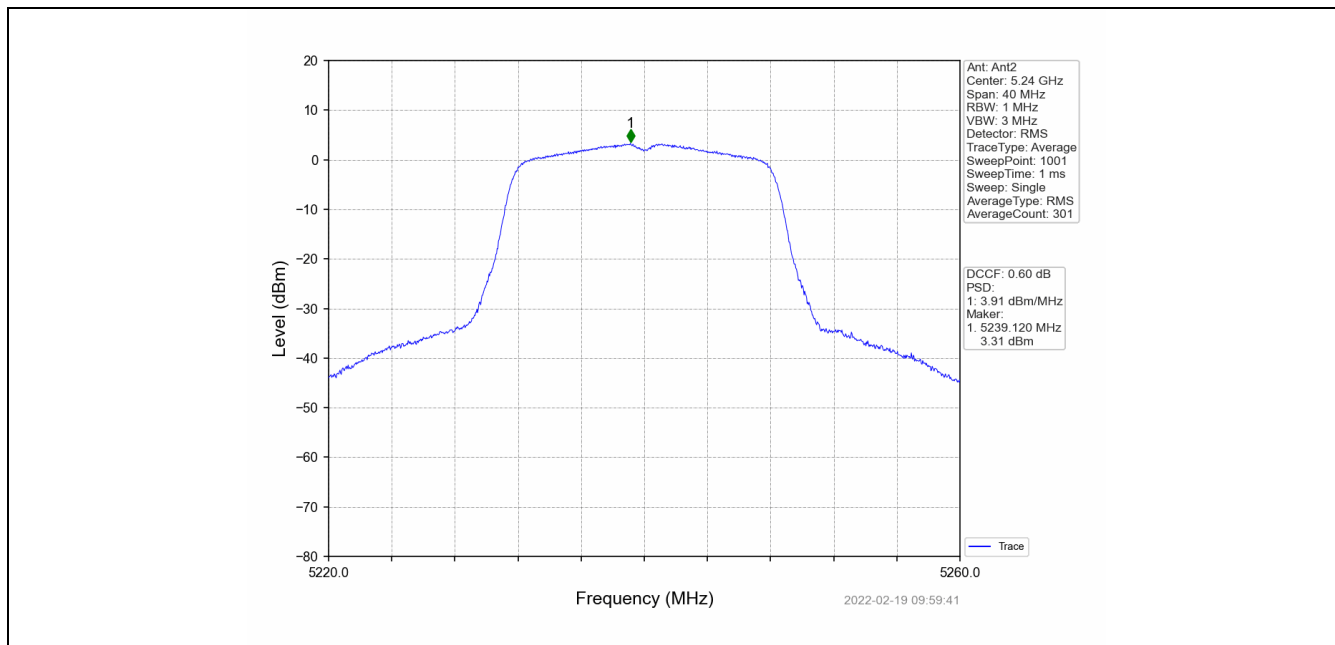


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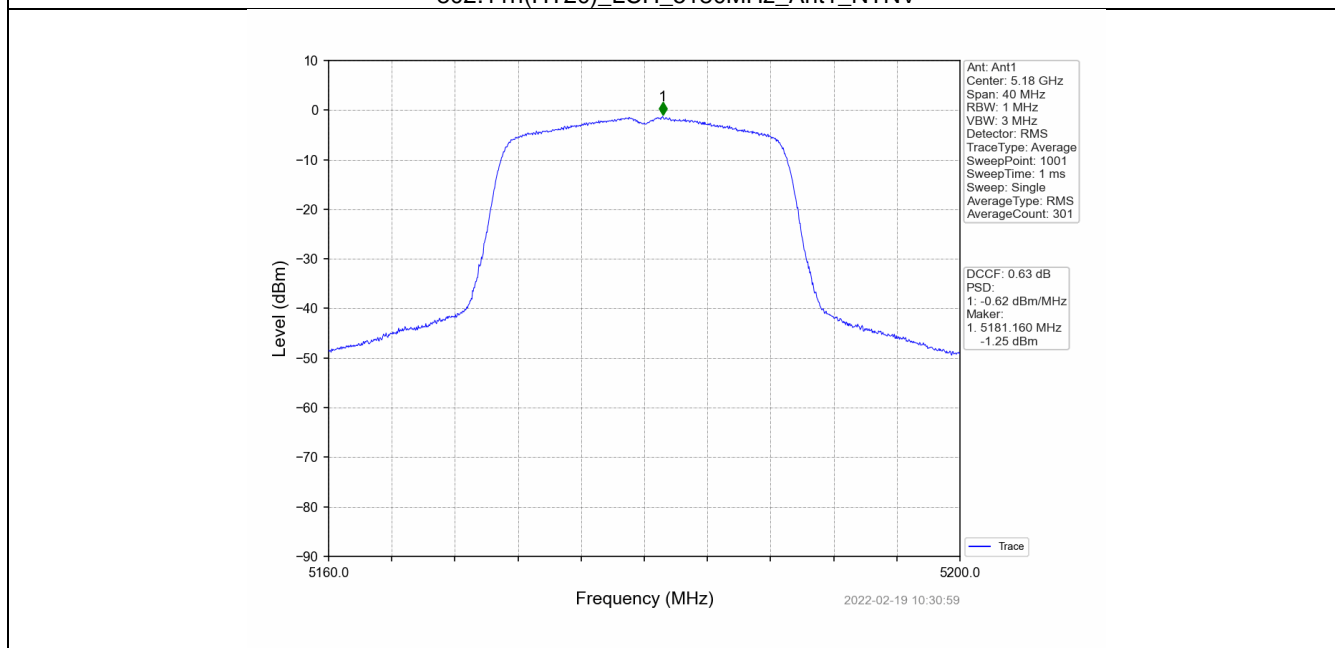
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV

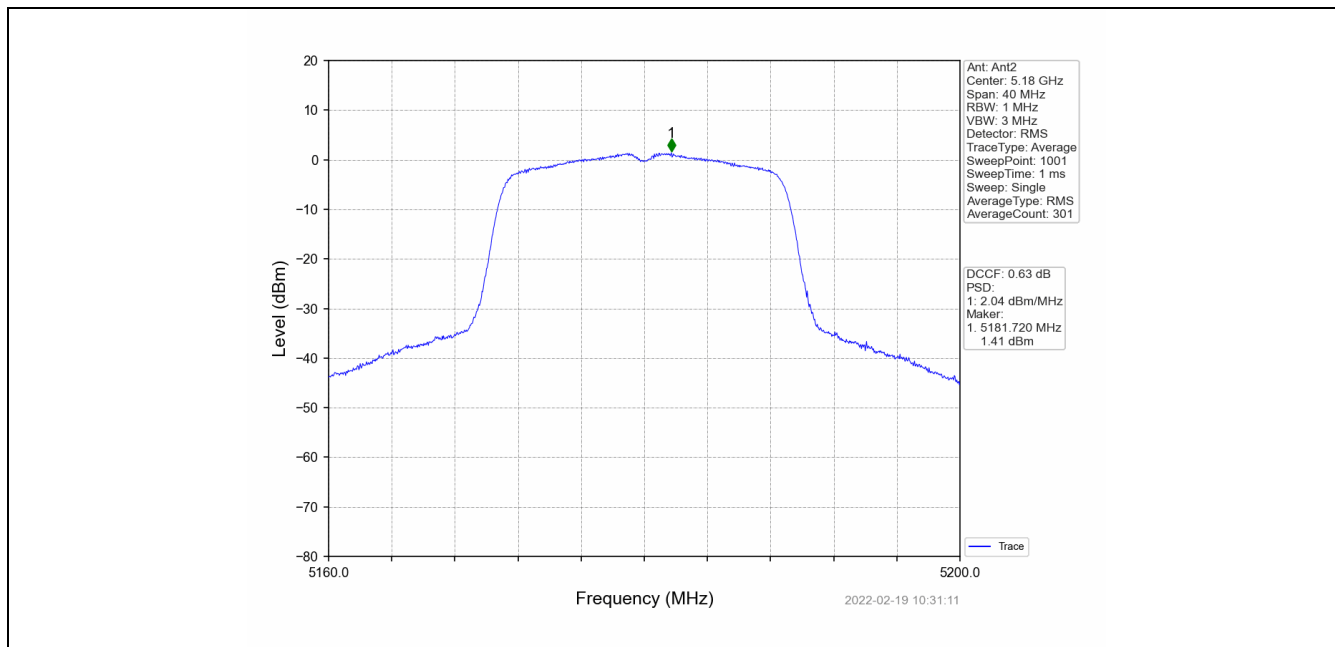


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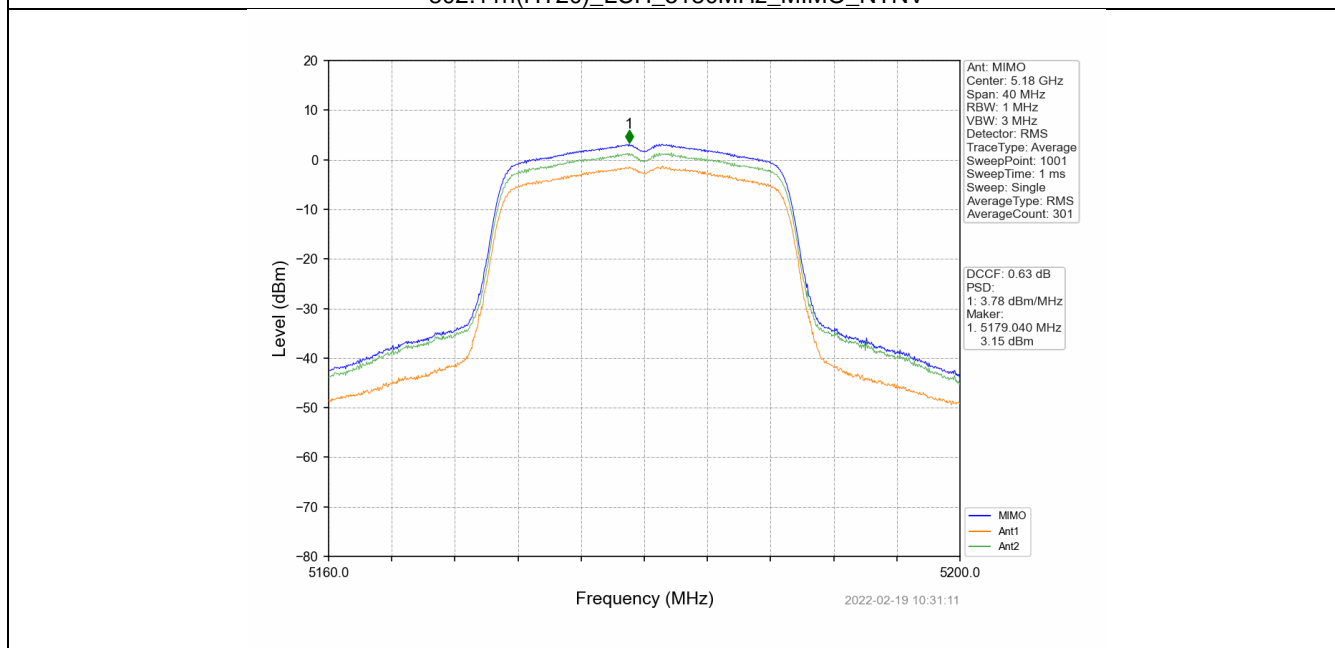
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802.11n(HT20)\_LCH\_5180MHz\_MIMO\_NTNV



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

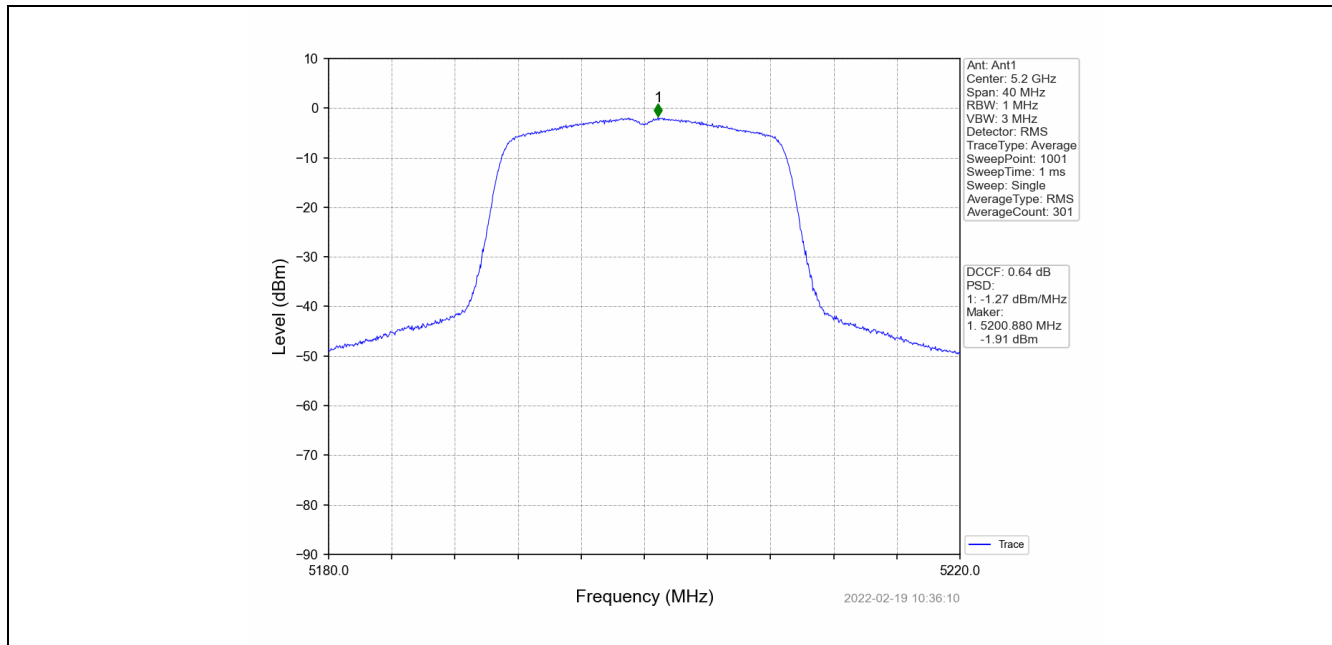


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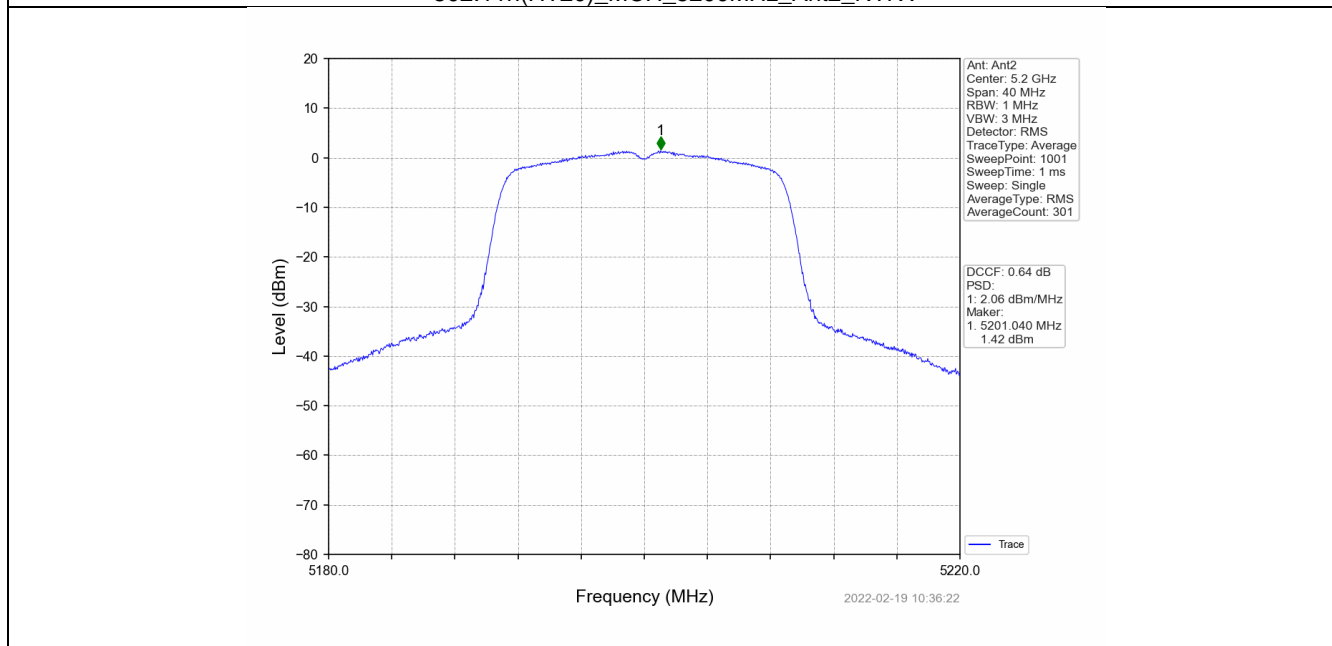
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802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV



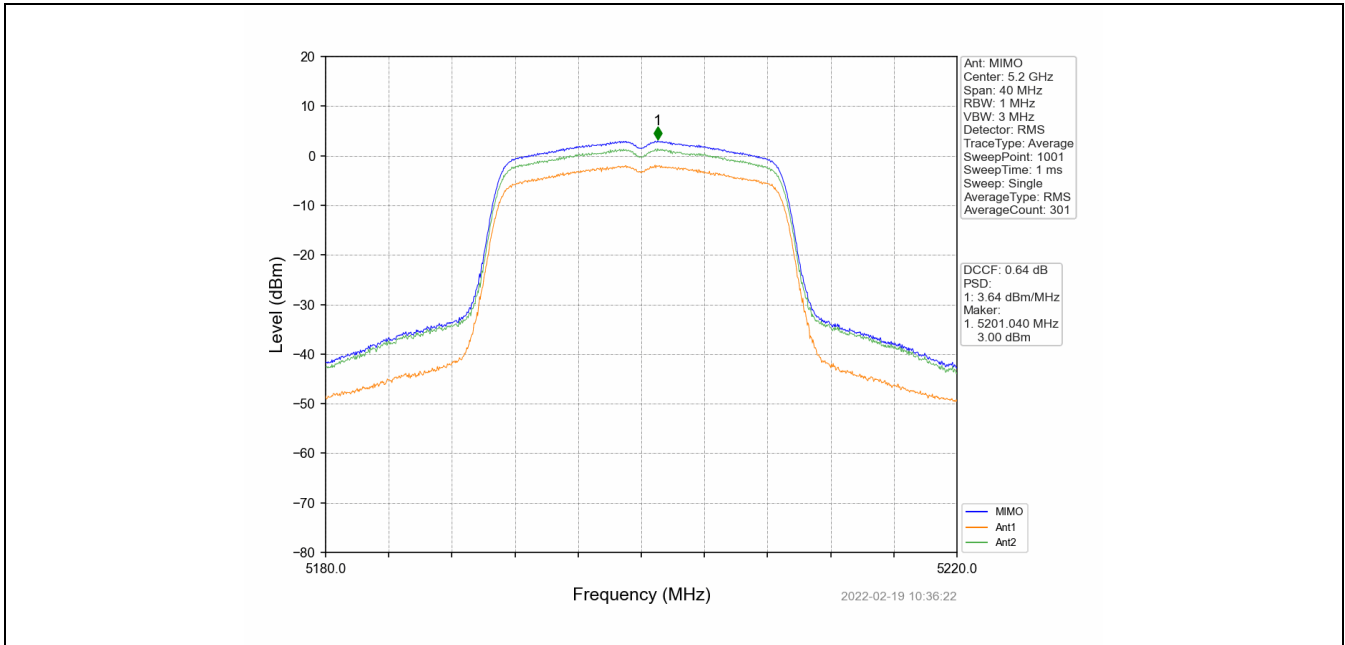
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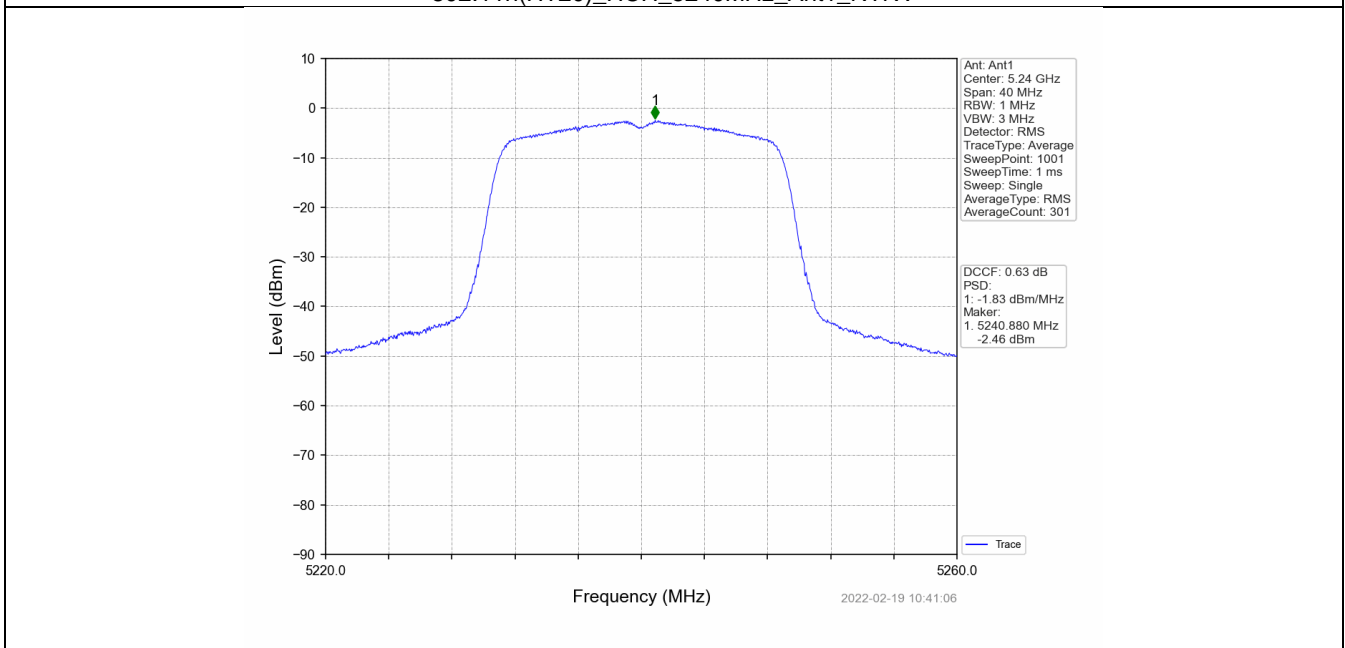
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802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV



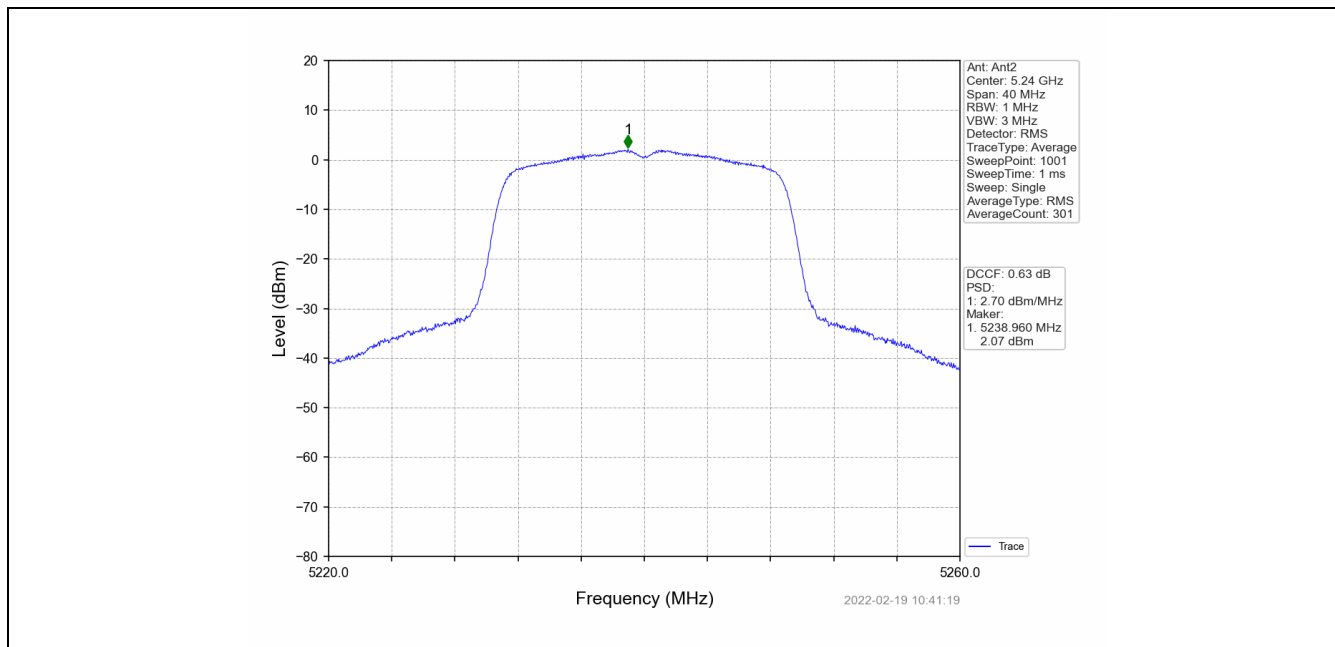
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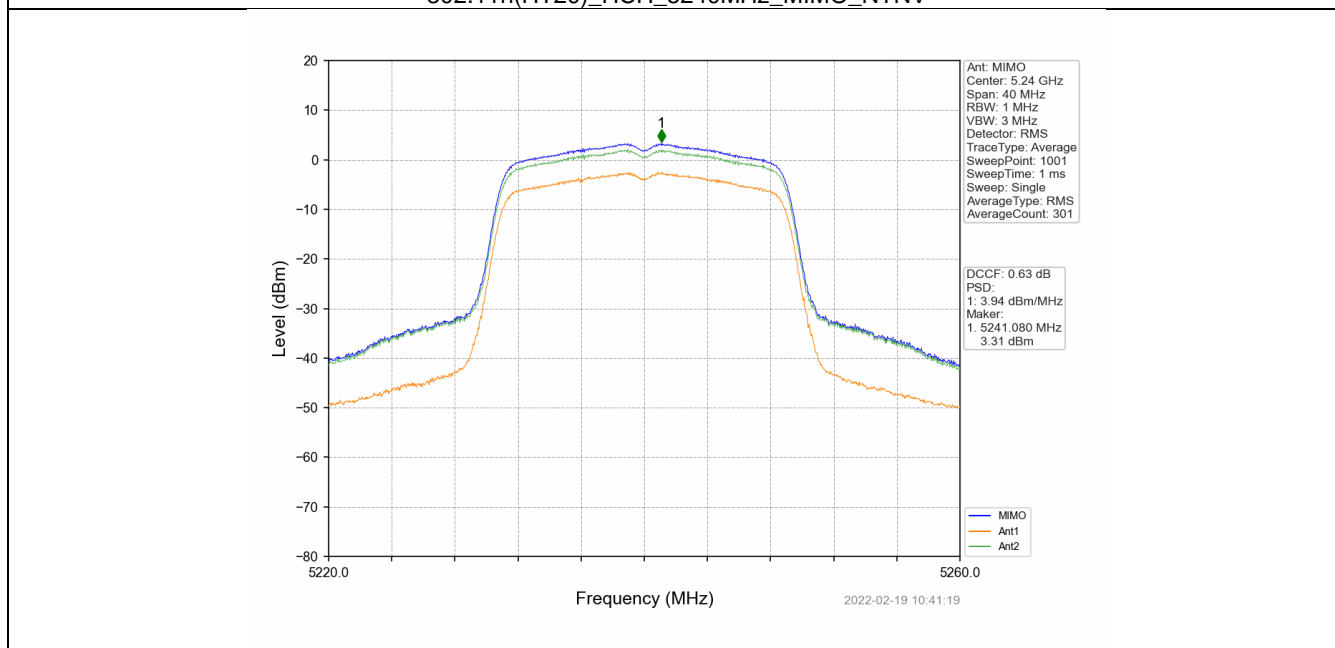
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802.11n(HT20)\_HCH\_5240MHz\_MIMO\_NTNV



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



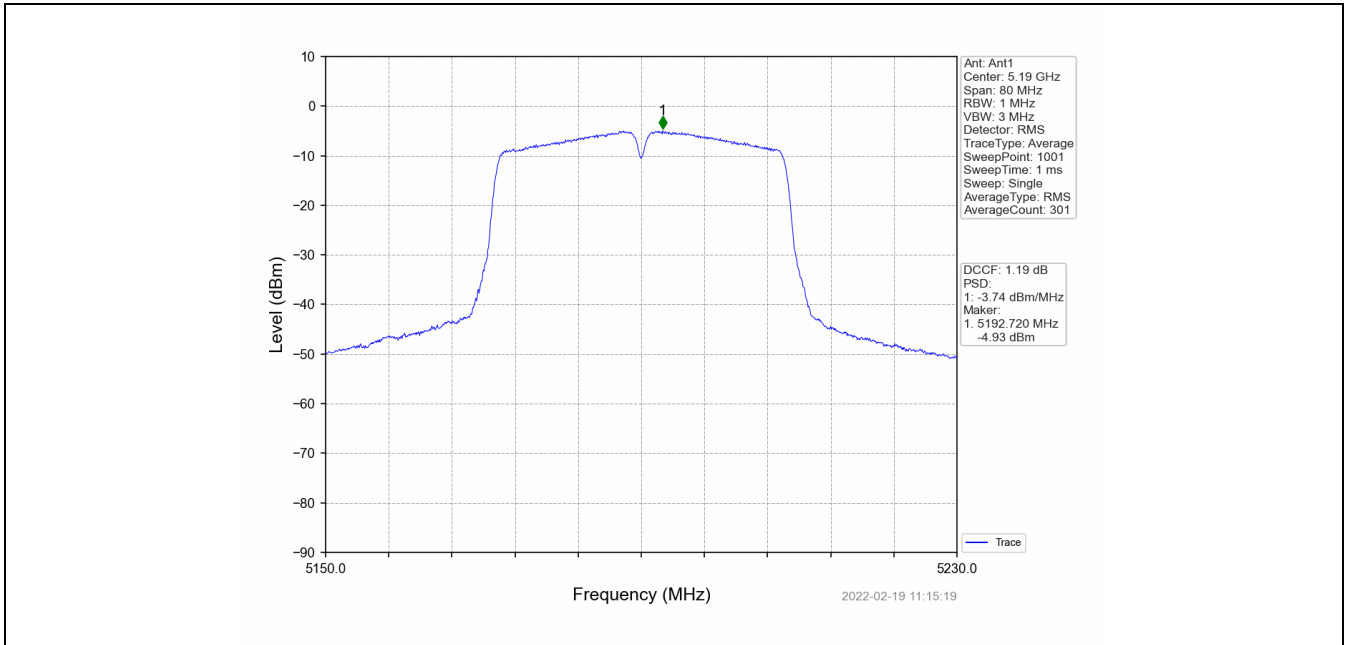
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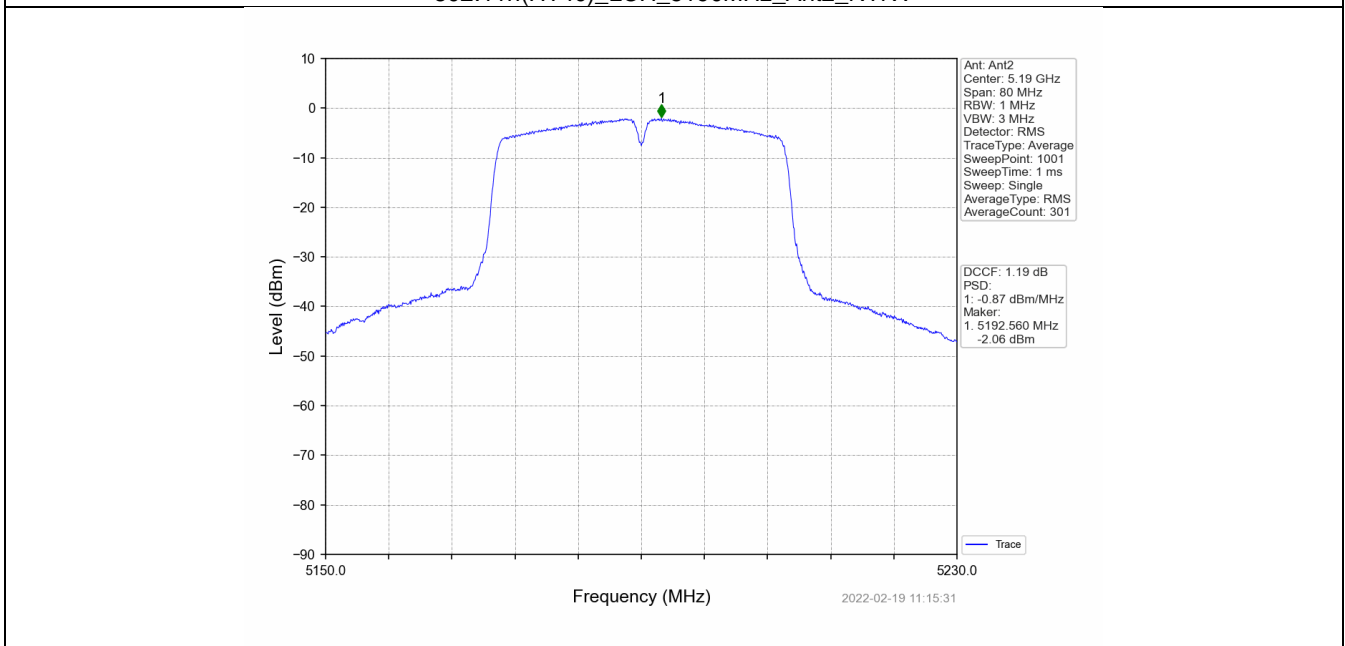
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802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV



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

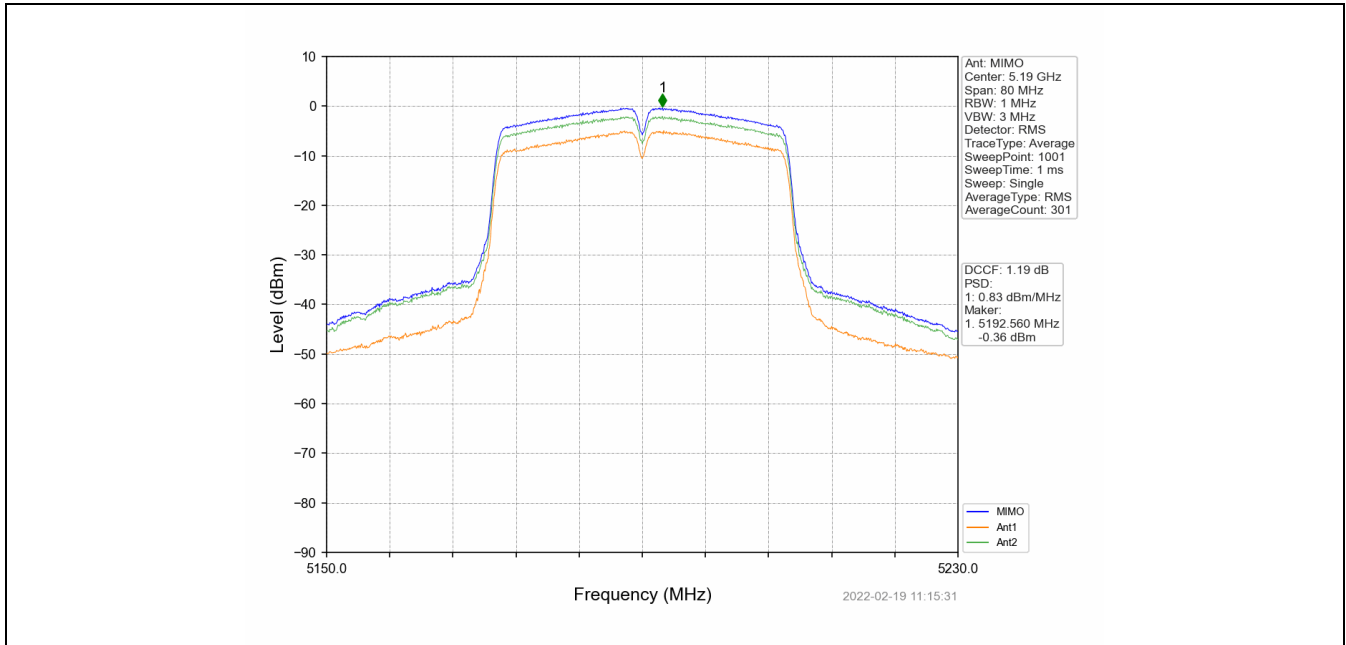


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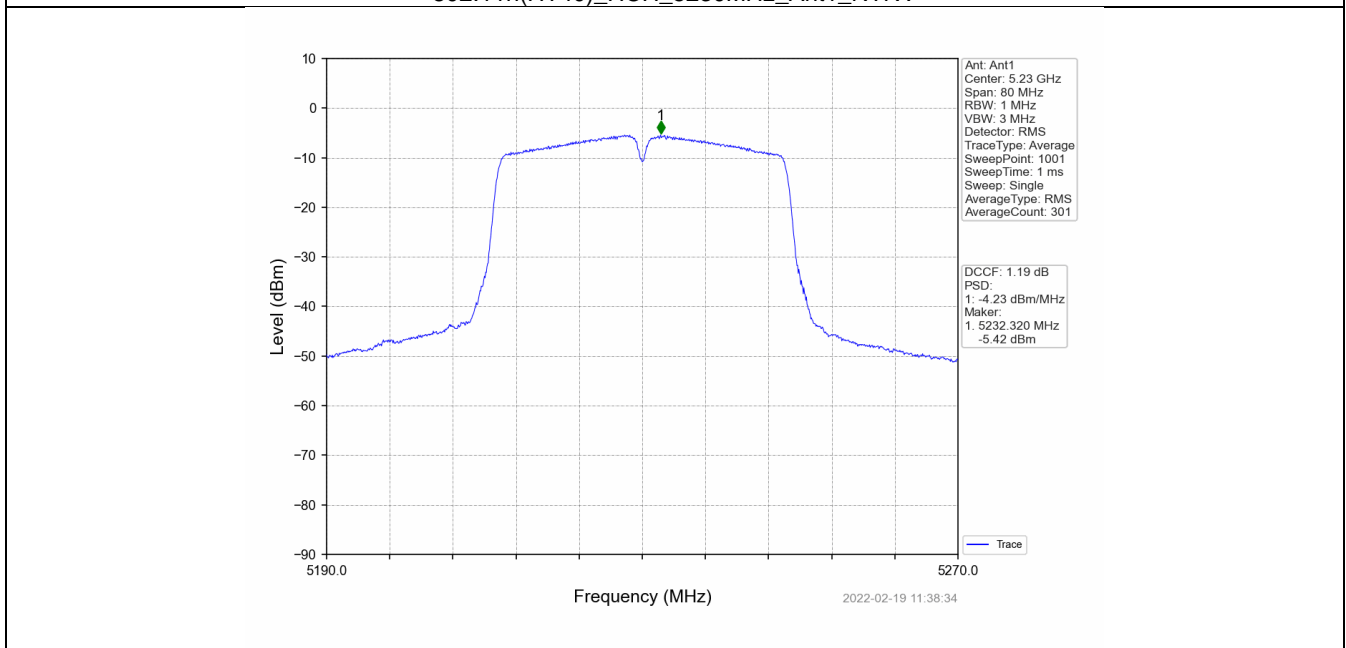
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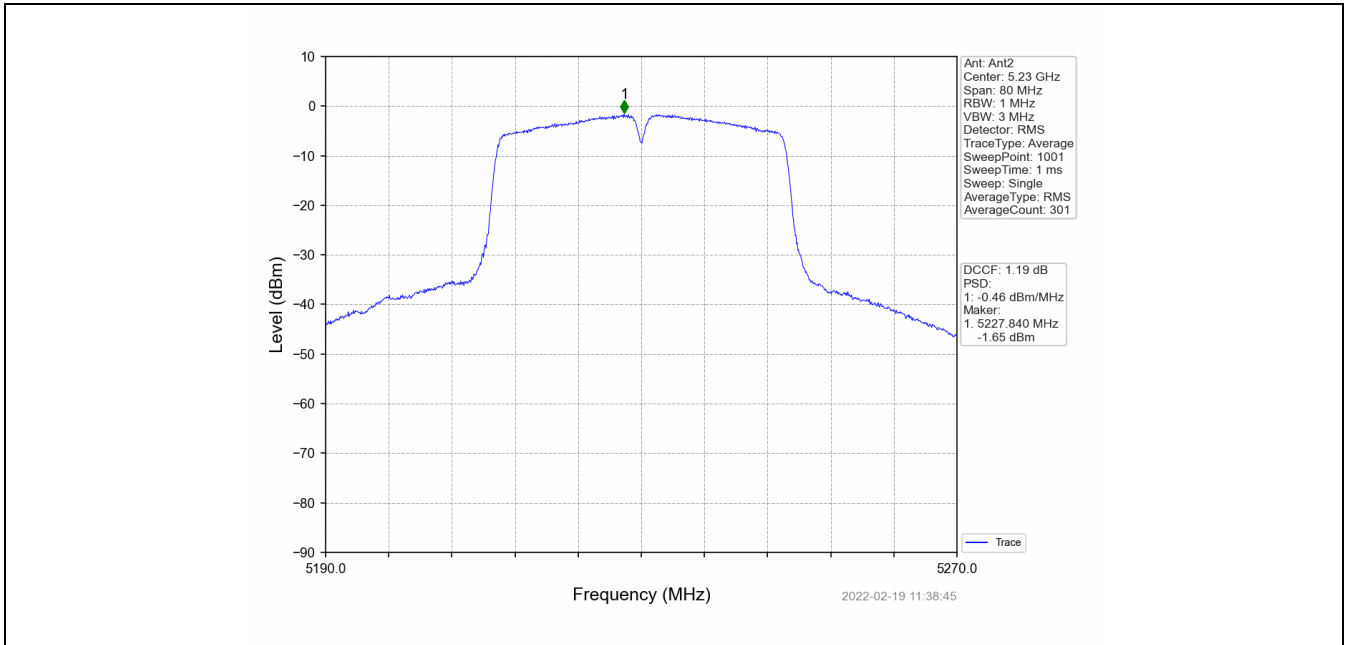


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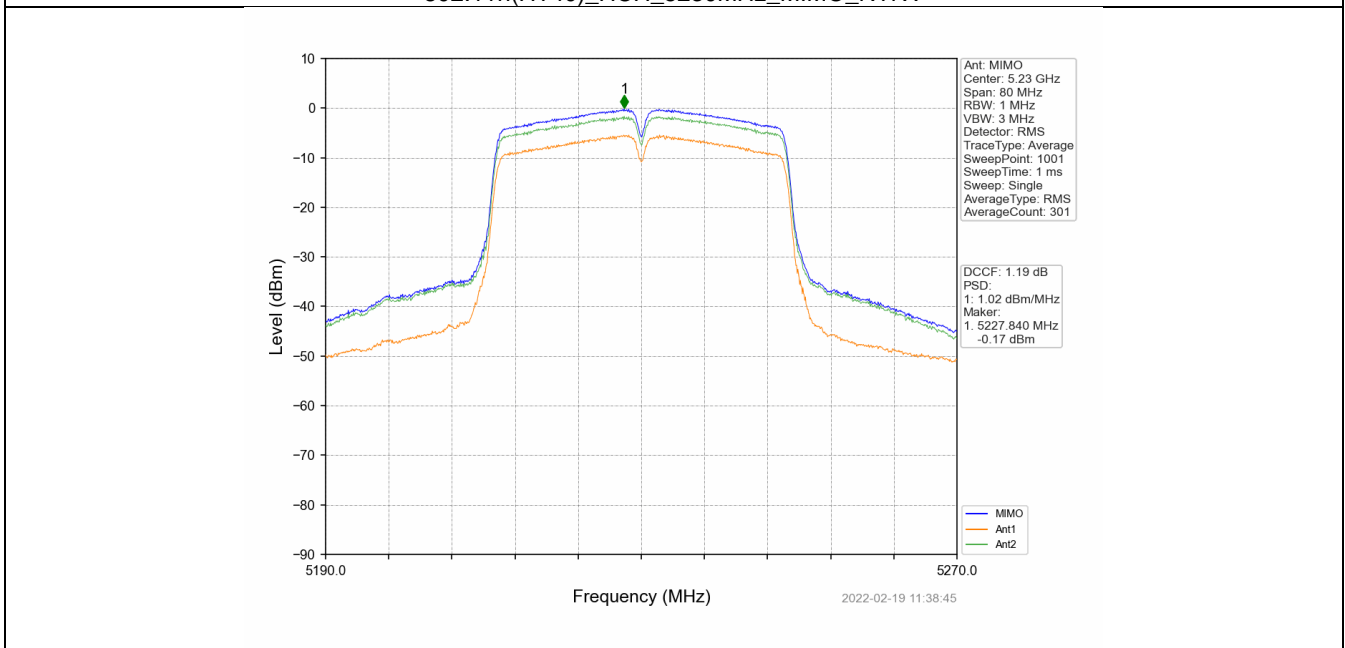
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802.11n(HT40)\_HCH\_5230MHz\_MIMO\_NTNV



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

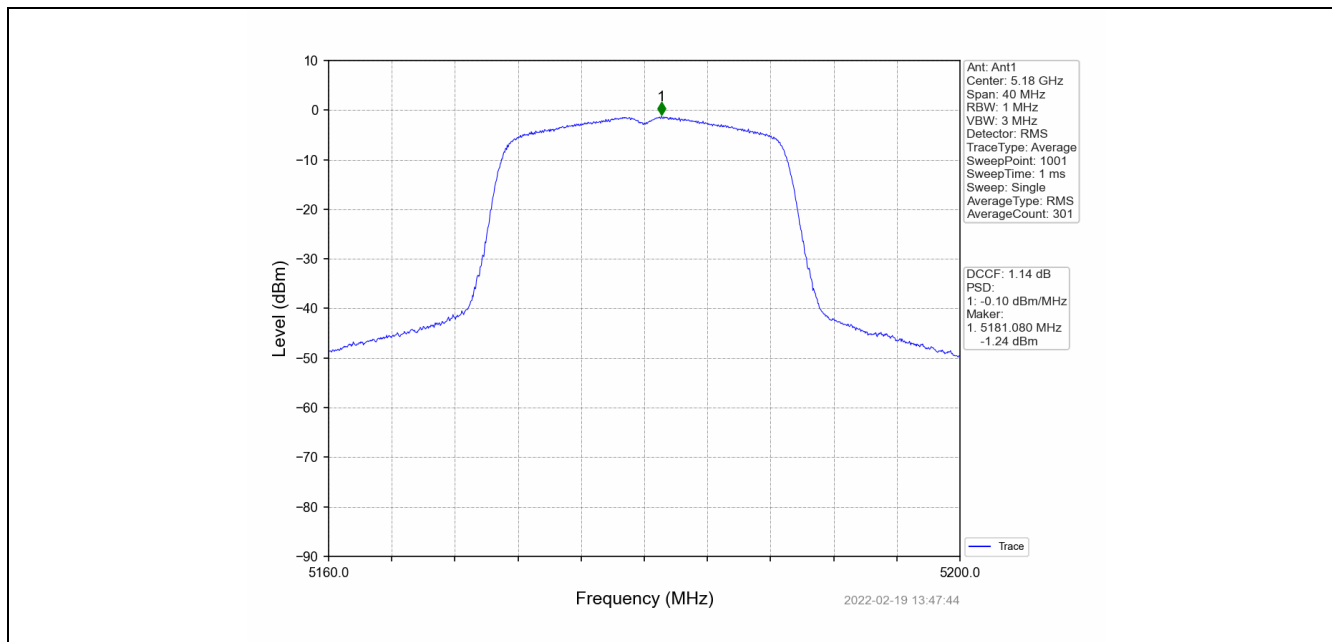


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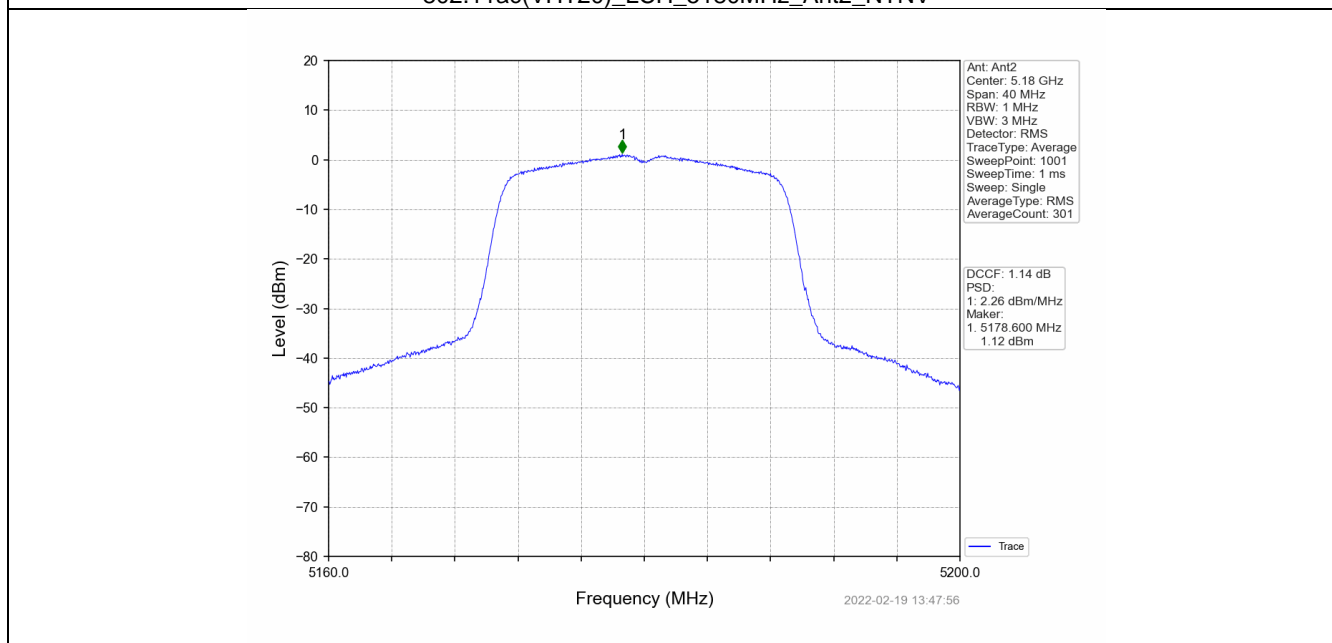
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802.11ac(VHT20)\_LCH\_5180MHz\_Ant2\_NTNV



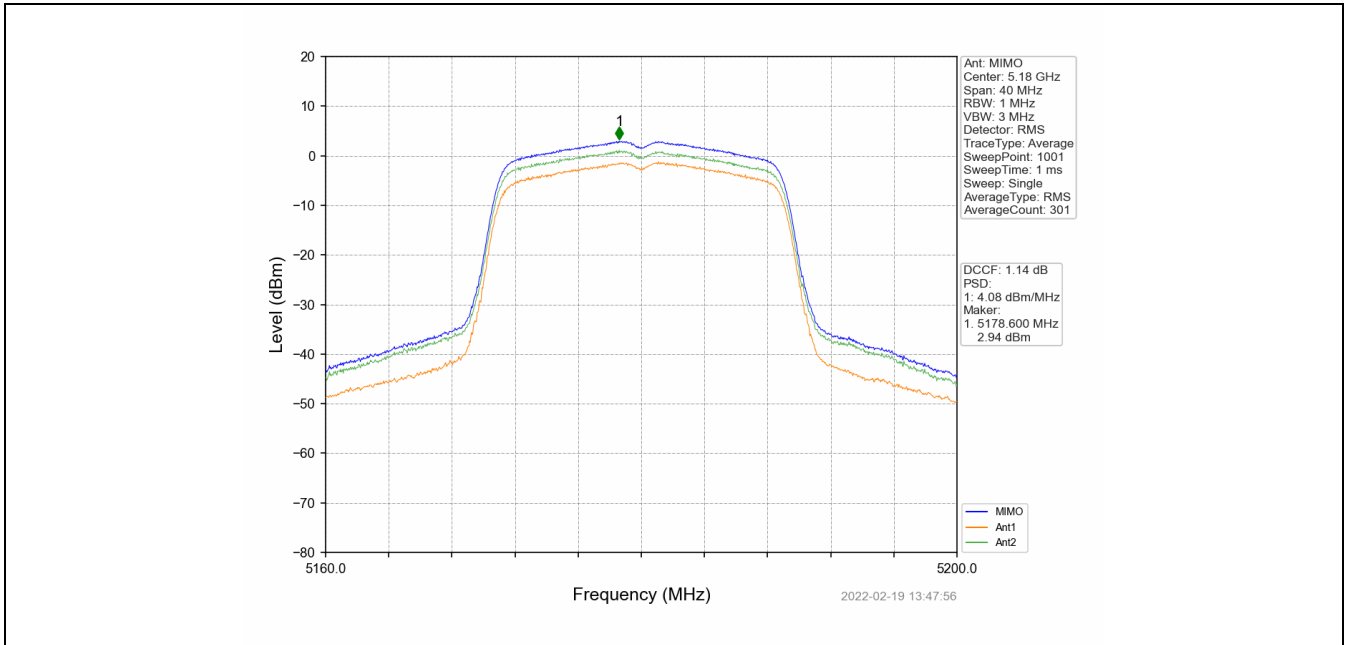
802.11ac(VHT20)\_LCH\_5180MHz\_MIMO\_NTNV



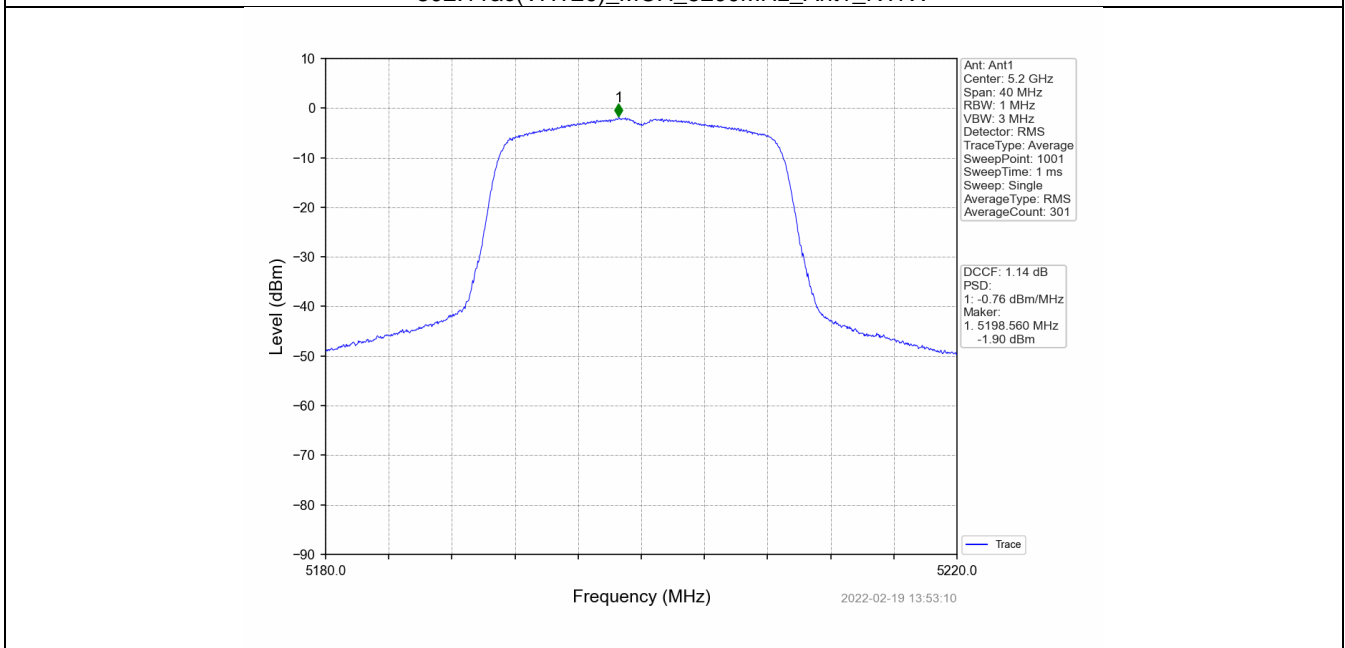
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802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5200MHz\_Ant2\_NTNV

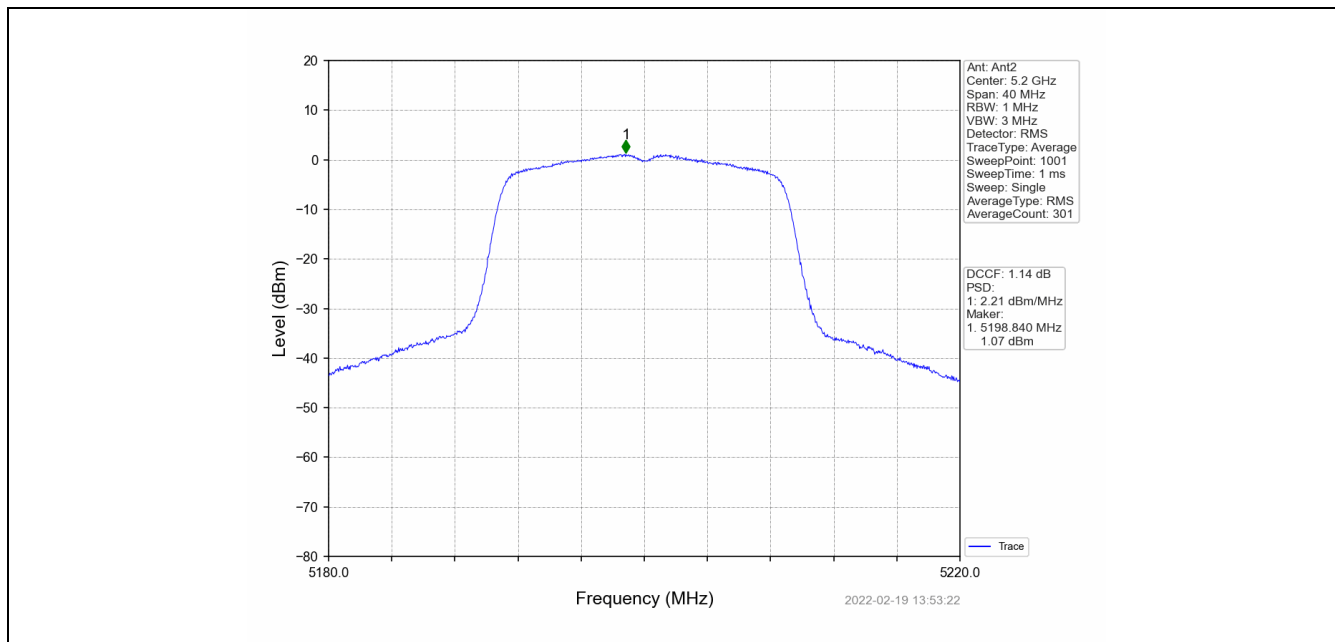


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802.11ac(VHT20)\_MCH\_5200MHz\_MIMO\_NTNV



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

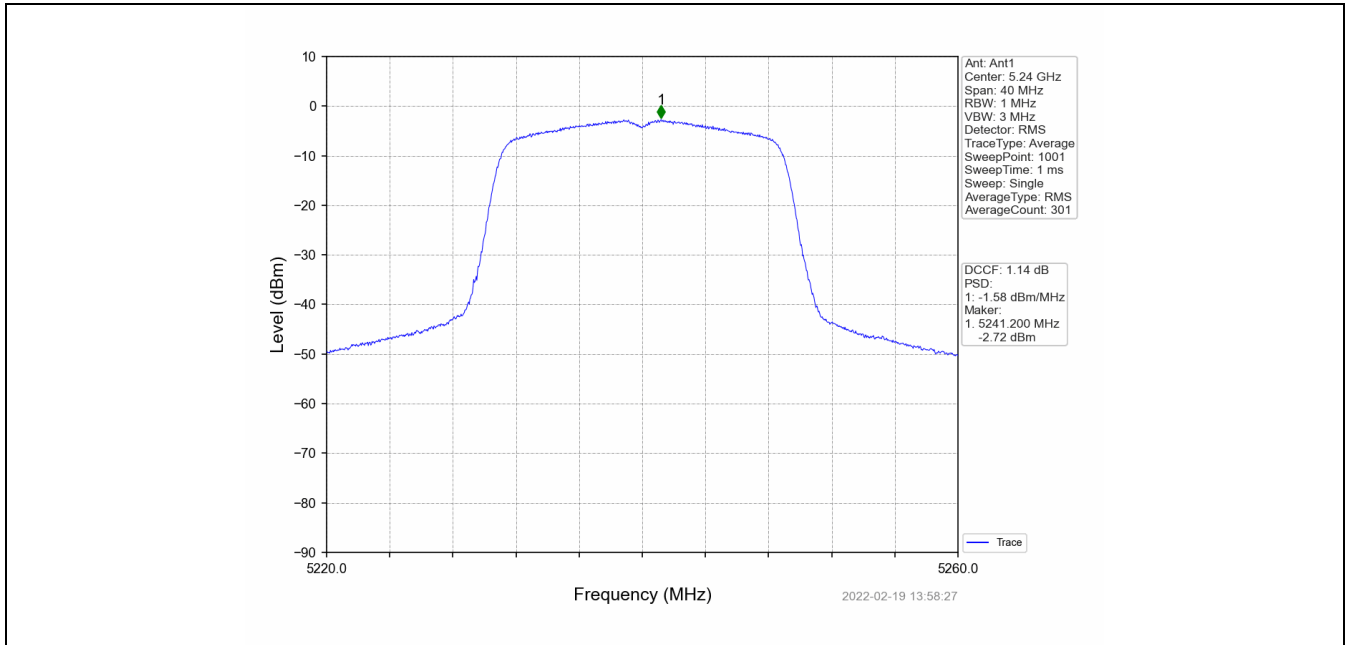


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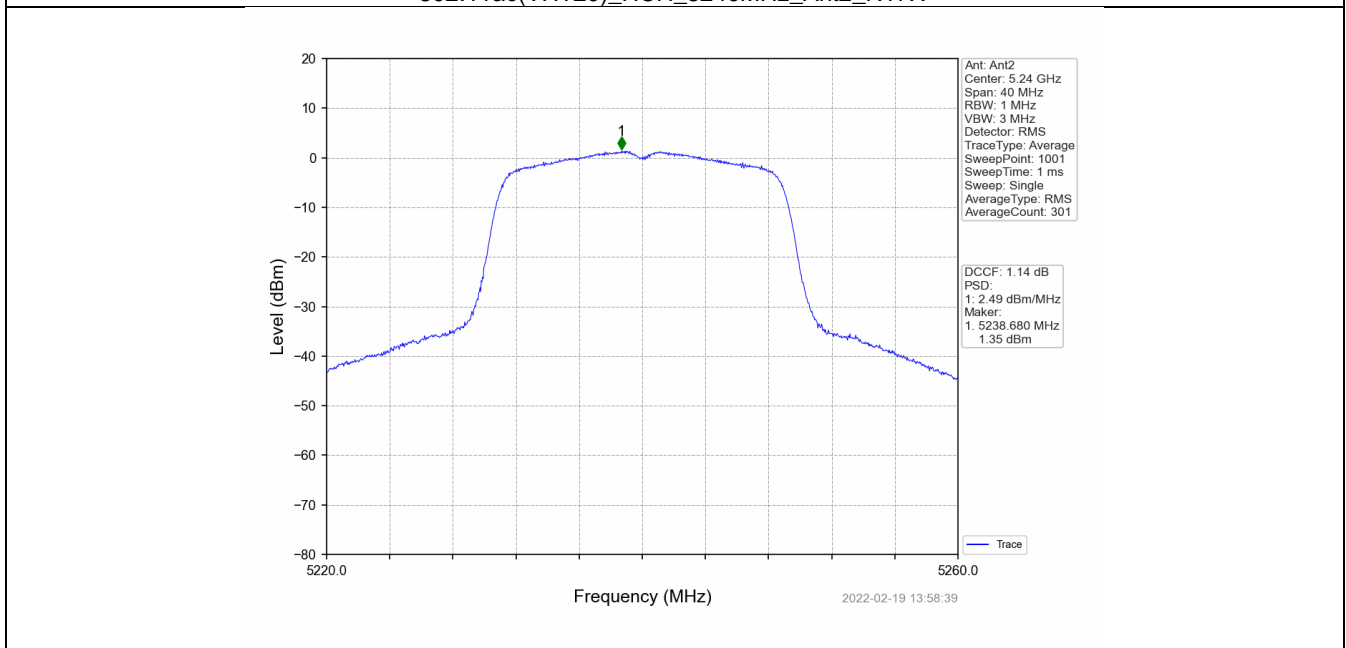
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802.11ac(VHT20)\_HCH\_5240MHz\_Ant2\_NTNV



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

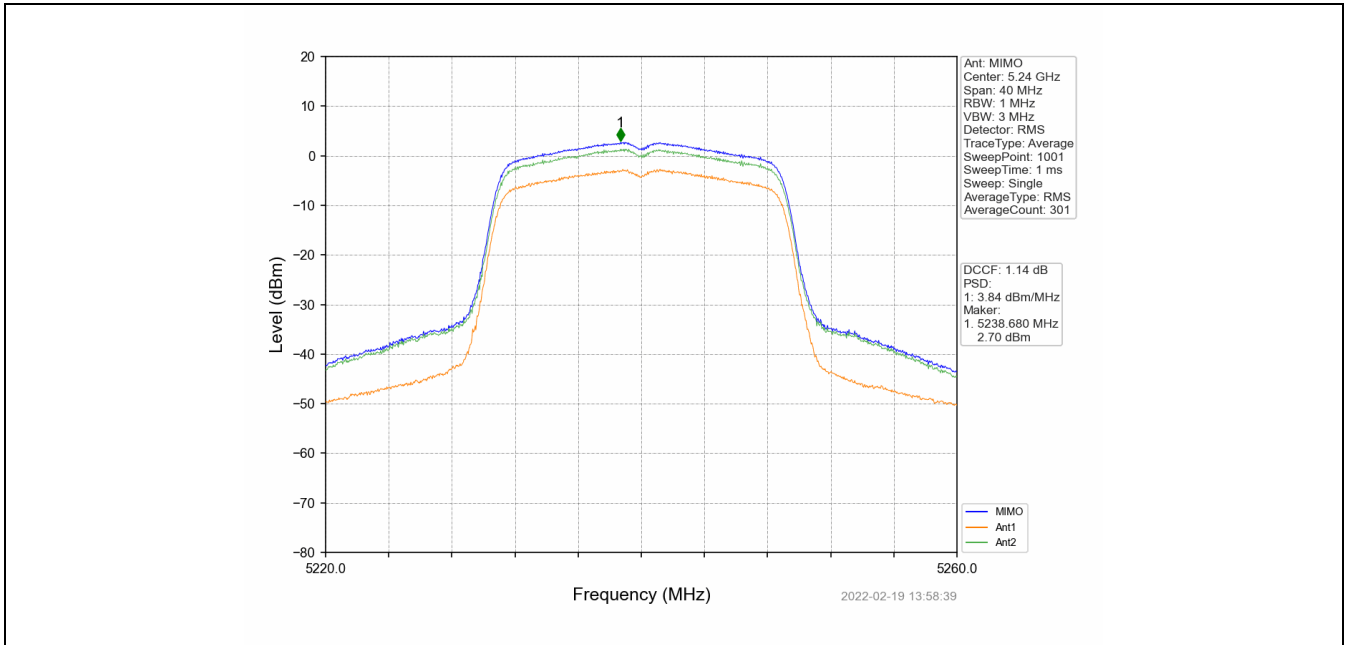


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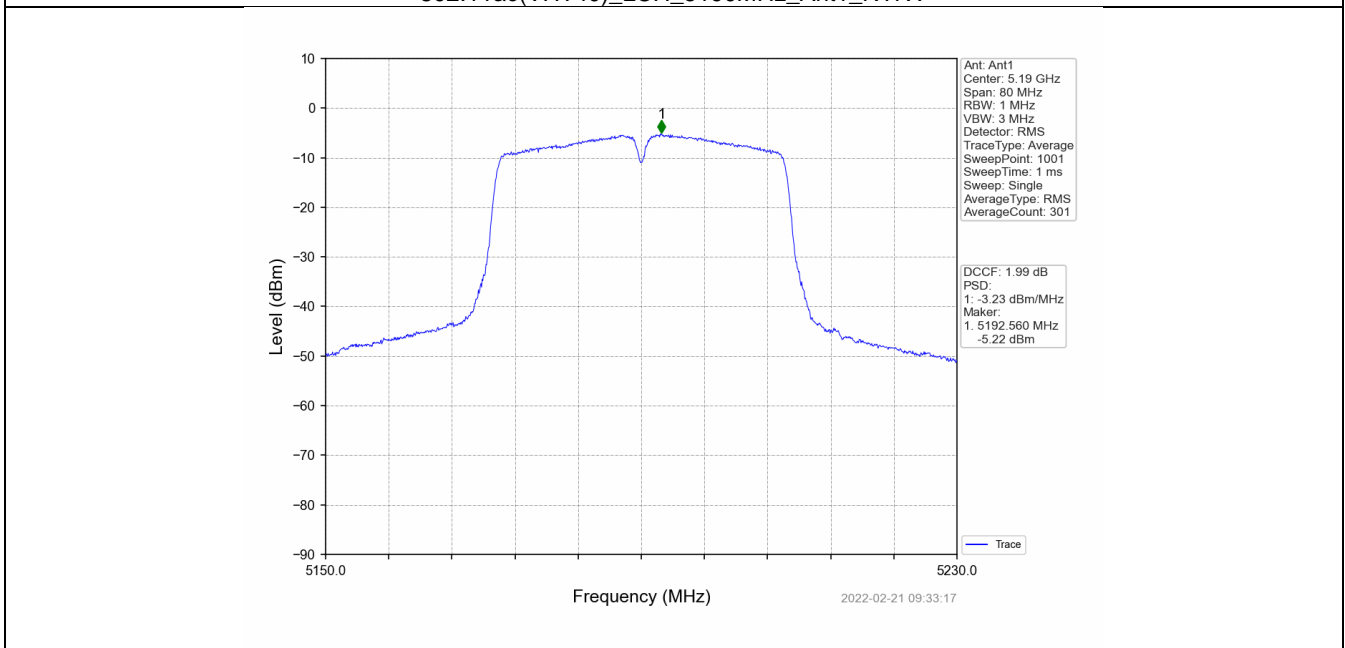
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802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV



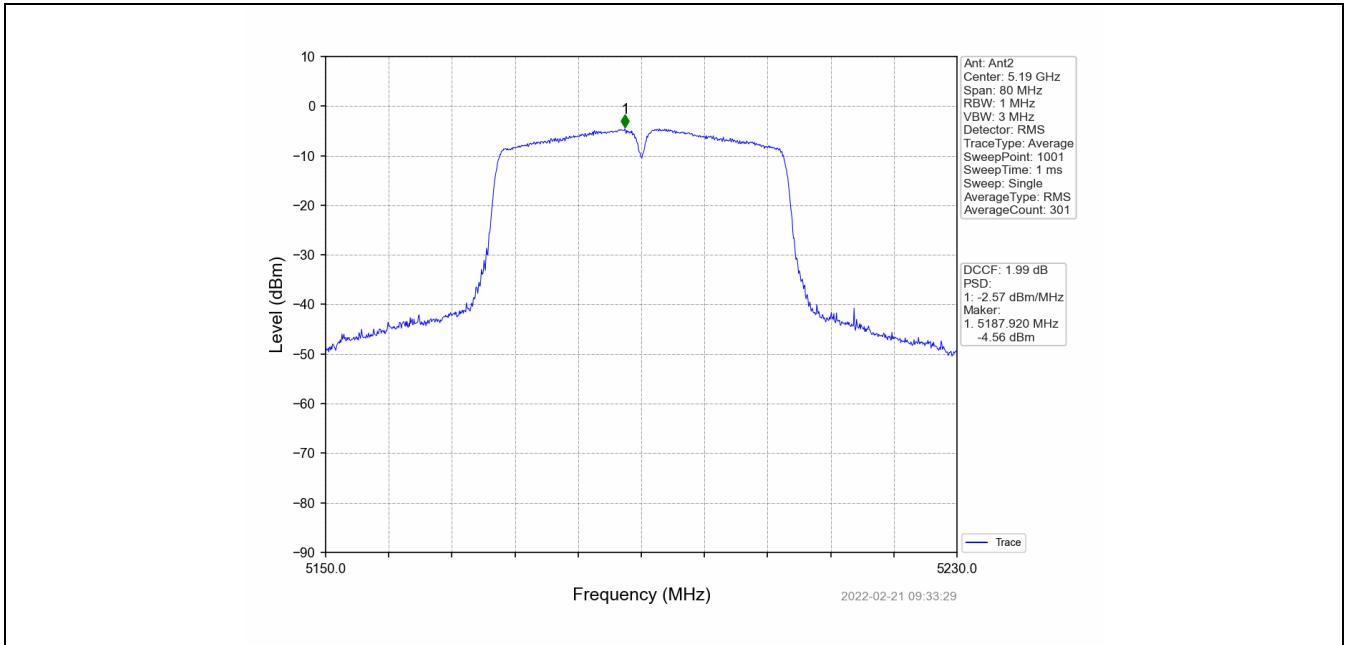
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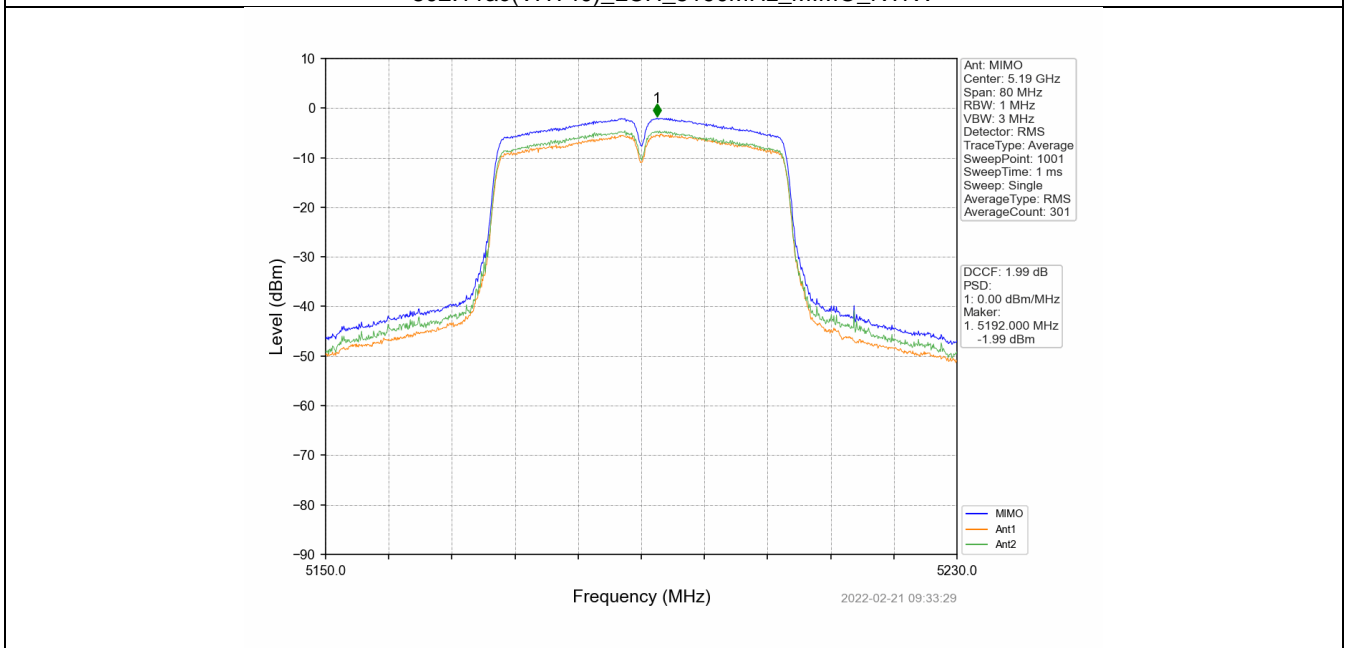
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802.11ac(VHT40)\_LCH\_5190MHz\_MIMO\_NTNV



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

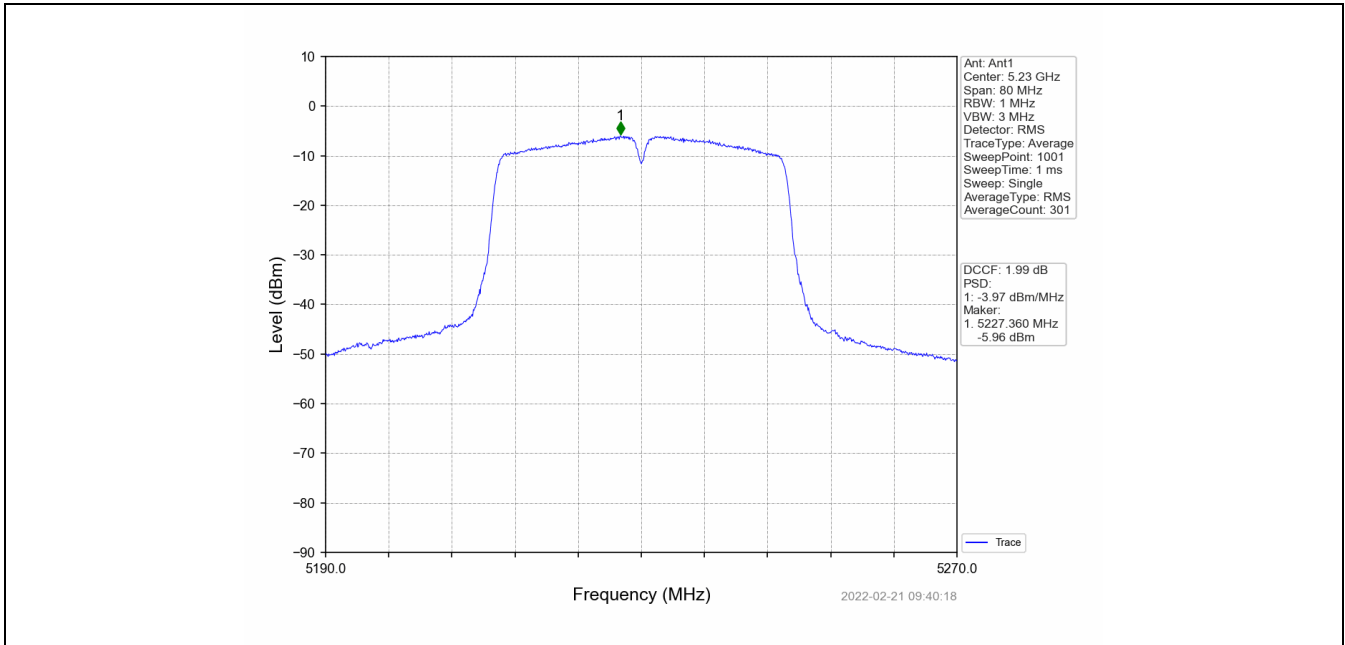


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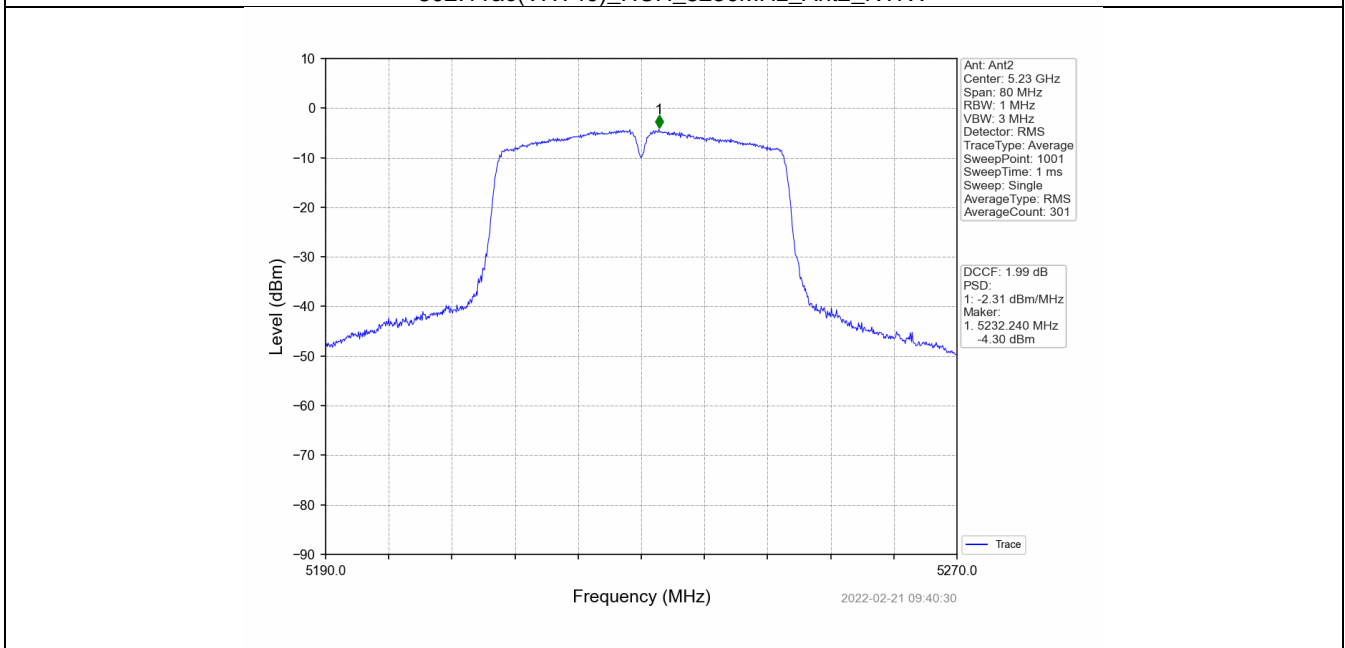
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV



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

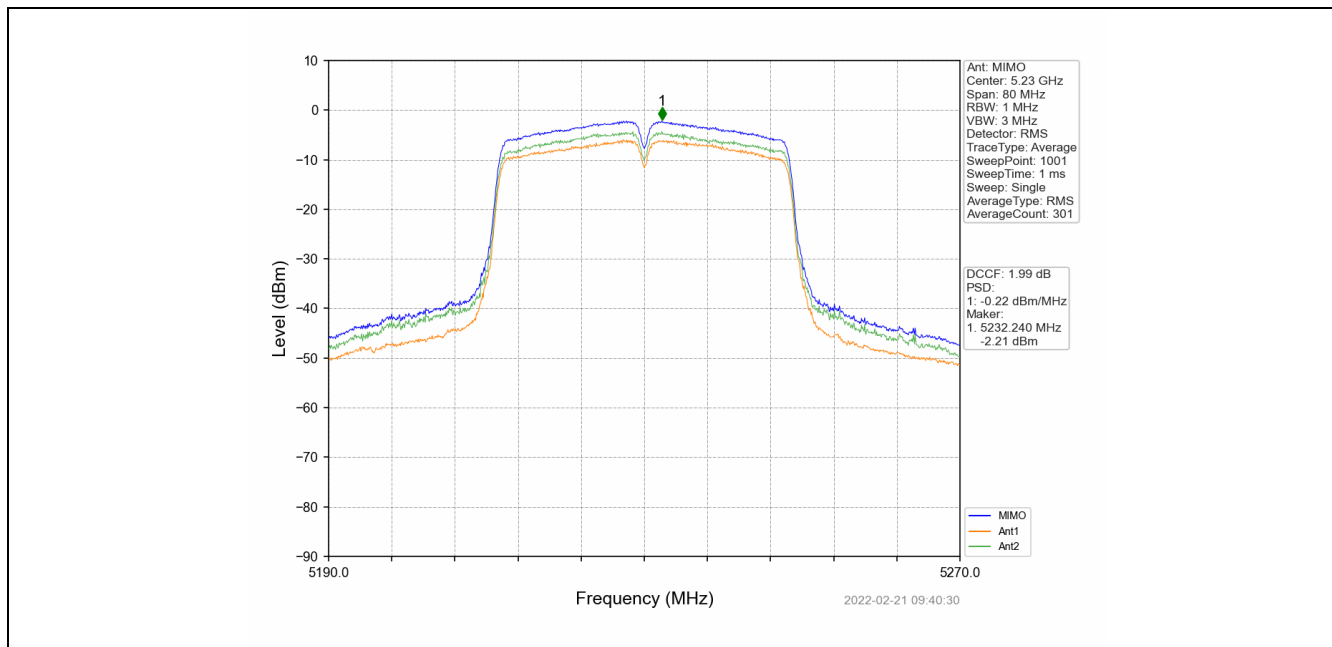


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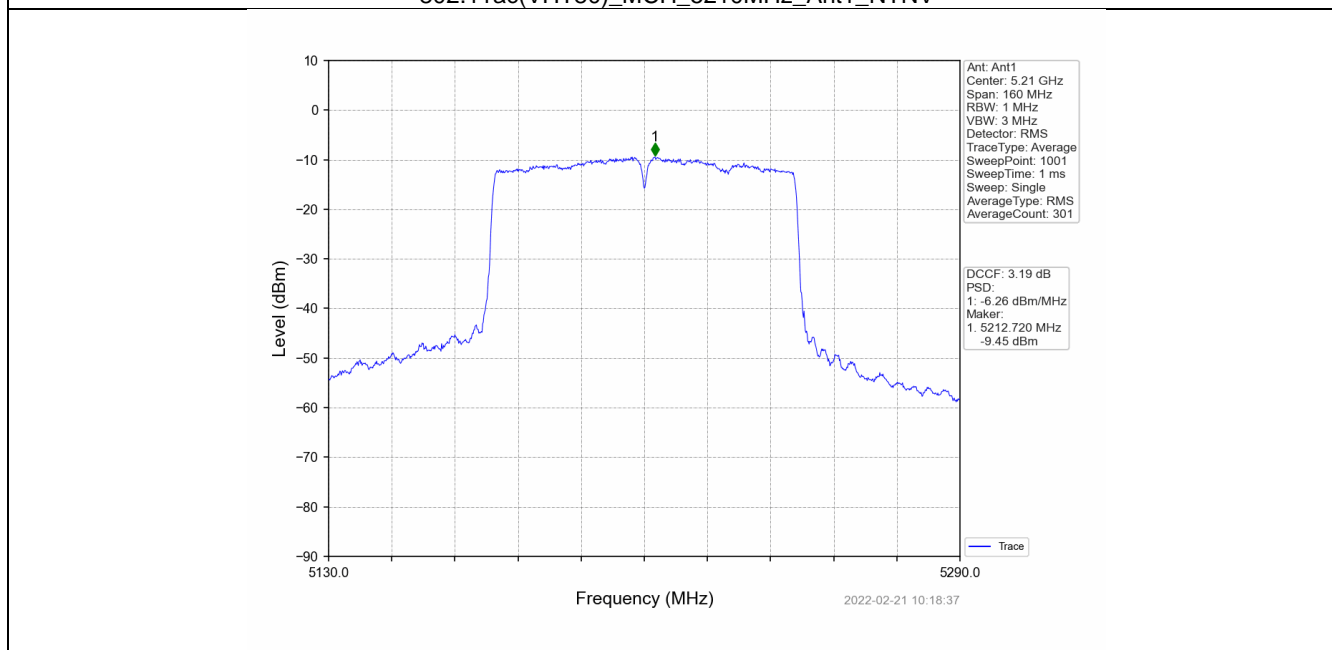
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant2\_NTNV

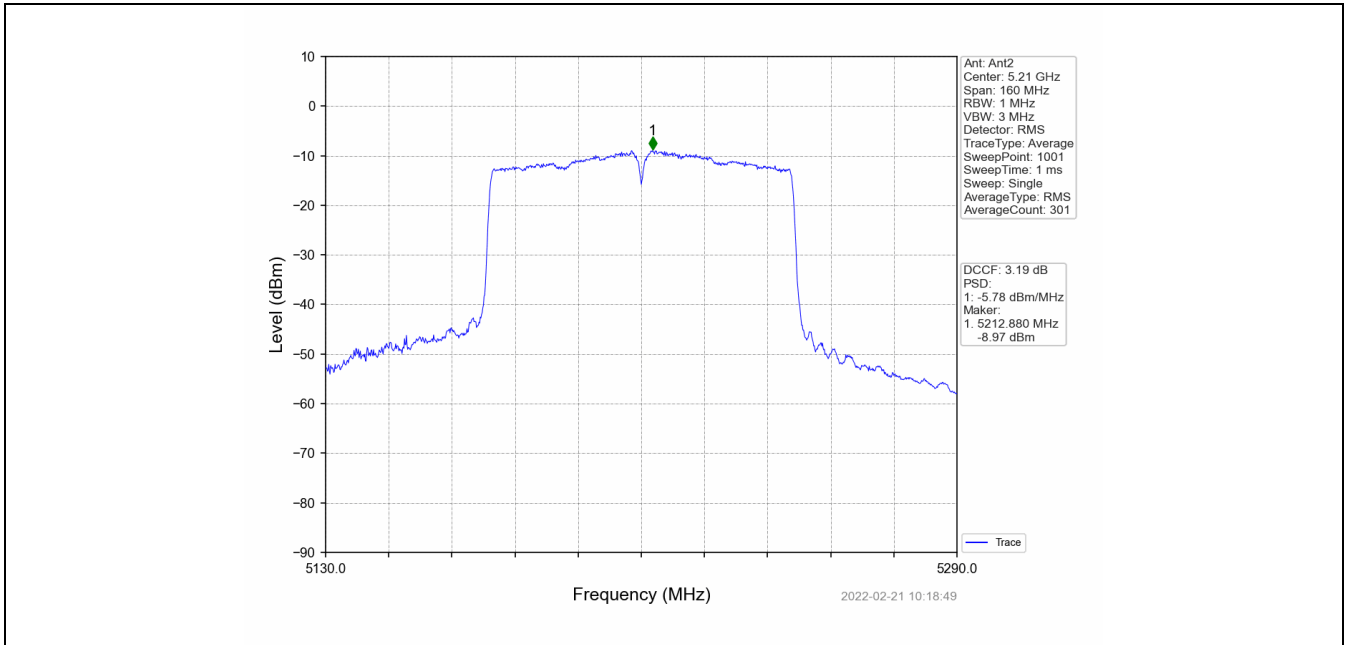


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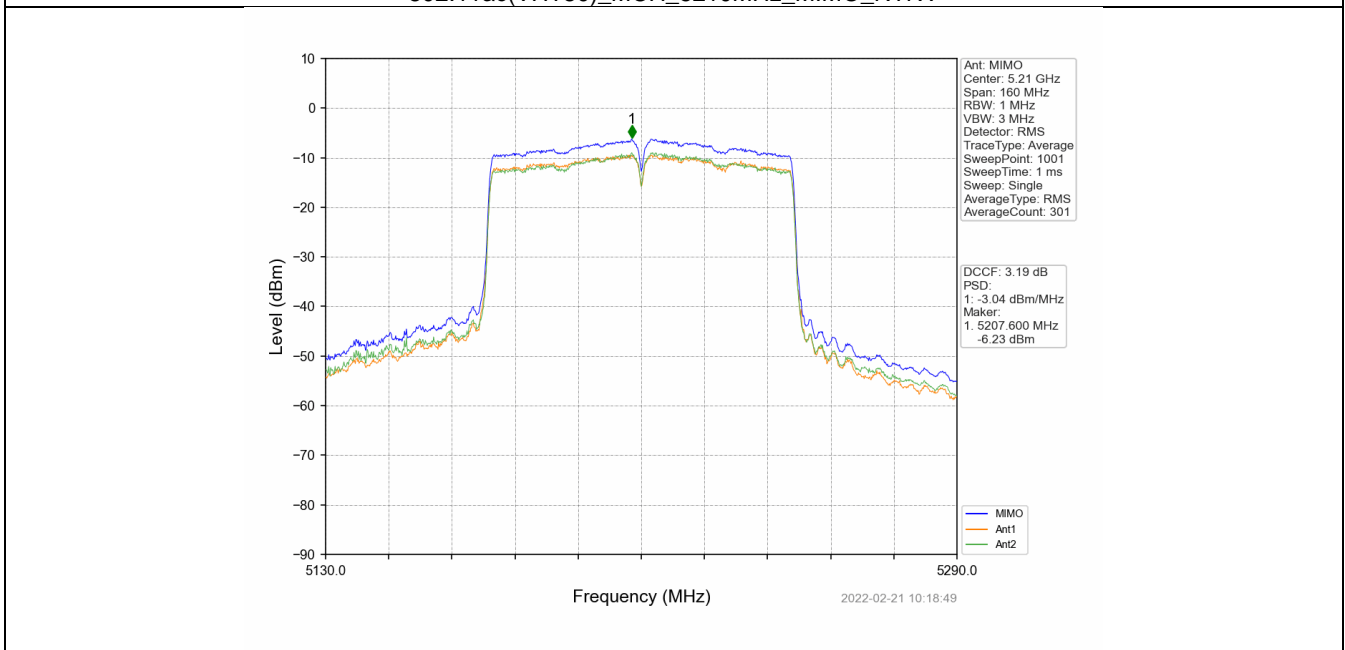
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802.11ac(VHT80)\_MCH\_5210MHz\_MIMO\_NTNV



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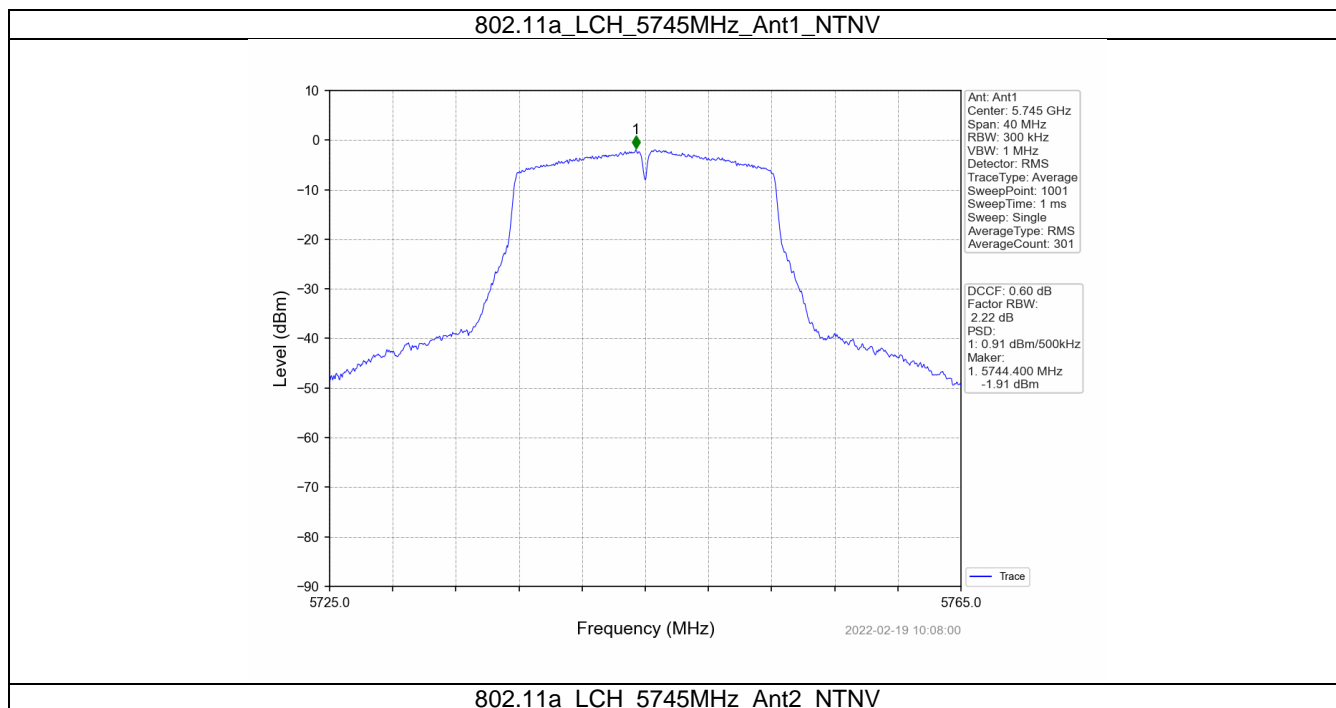
## 4.2 PSD-Band3

### 4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11a	SISO	5745	0.91	0.16	/	<=30	Pass
		5785	0.94	-0.38	/	<=30	Pass
		5825	0.13	-0.59	/	<=30	Pass
802.11n (HT20)	MIMO	5745	-4.19	-0.31	1.09	<=29.83	Pass
		5785	-5.19	-1.23	0.18	<=29.83	Pass
		5825	-5.58	-1.44	-0.22	<=29.83	Pass
802.11n (HT40)	MIMO	5755	-7.19	-3.83	-2.20	<=29.83	Pass
		5795	-7.53	-4.30	-2.61	<=29.83	Pass
802.11ac (VHT20)	MIMO	5745	-3.69	-0.51	1.09	<=29.83	Pass
		5785	-4.56	-1.02	0.51	<=29.83	Pass
		5825	-5.11	-1.24	0.17	<=29.83	Pass
802.11ac (VHT40)	MIMO	5755	-6.43	-4.79	-2.60	<=29.83	Pass
		5795	-7.04	-5.05	-2.92	<=29.83	Pass
802.11ac (VHT80)	MIMO	5775	-5.44	-5.50	-2.66	<=29.83	Pass

Note1: Antenna Gain: Ant1: 3.17dBi; Ant2: 3.14dBi;  
 Note2: Directional Gain: 6.17dBi

### 4.2.2 Test Graph

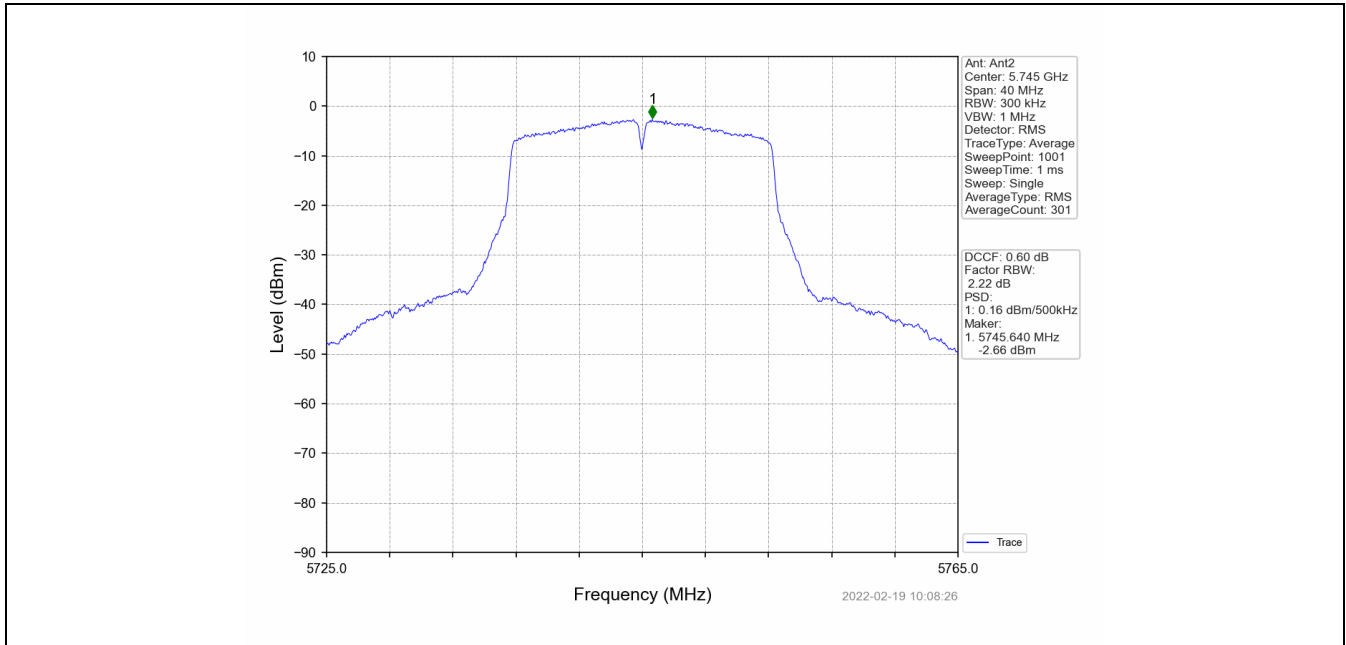


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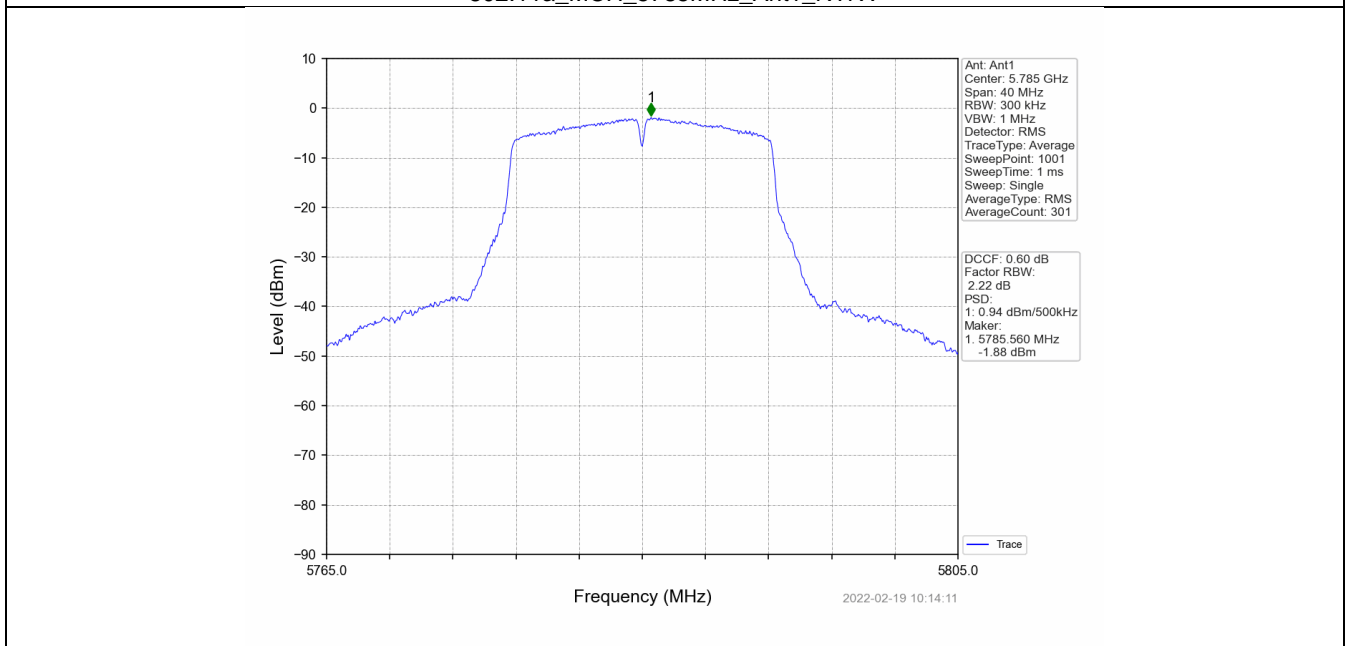
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802.11a\_MCH\_5785MHz\_Ant1\_NTNV



802.11a\_MCH\_5785MHz\_Ant2\_NTNV

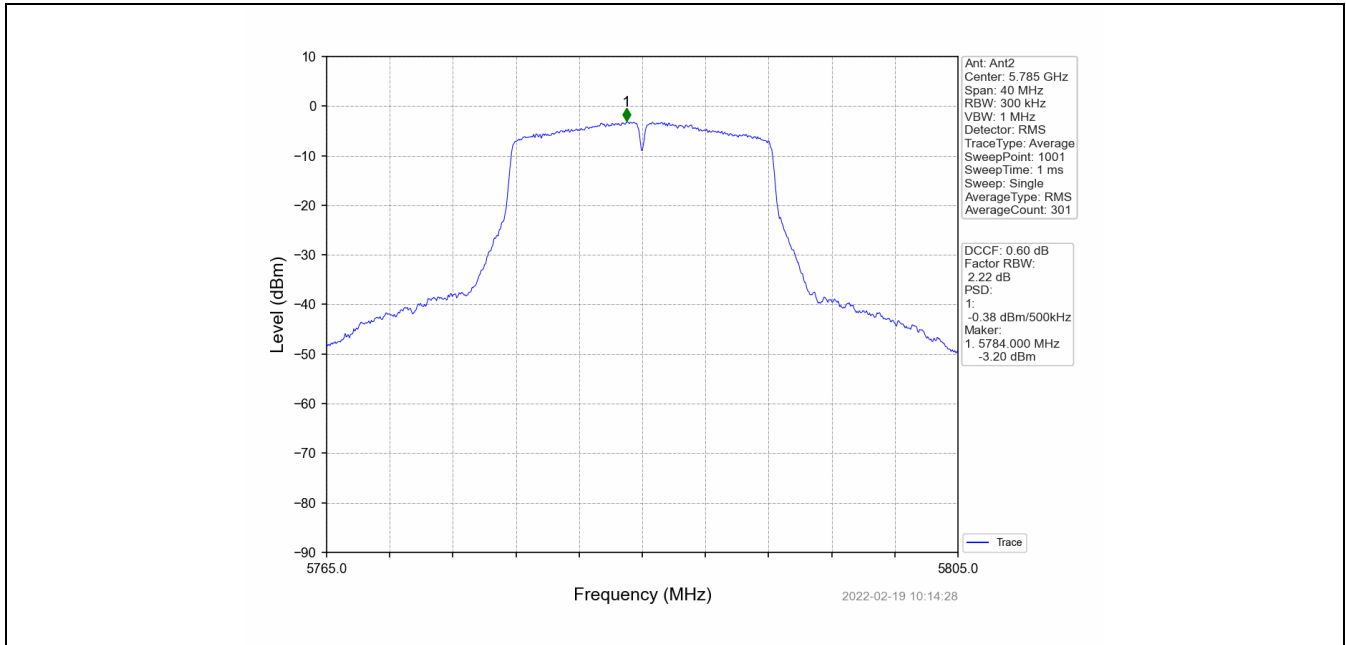


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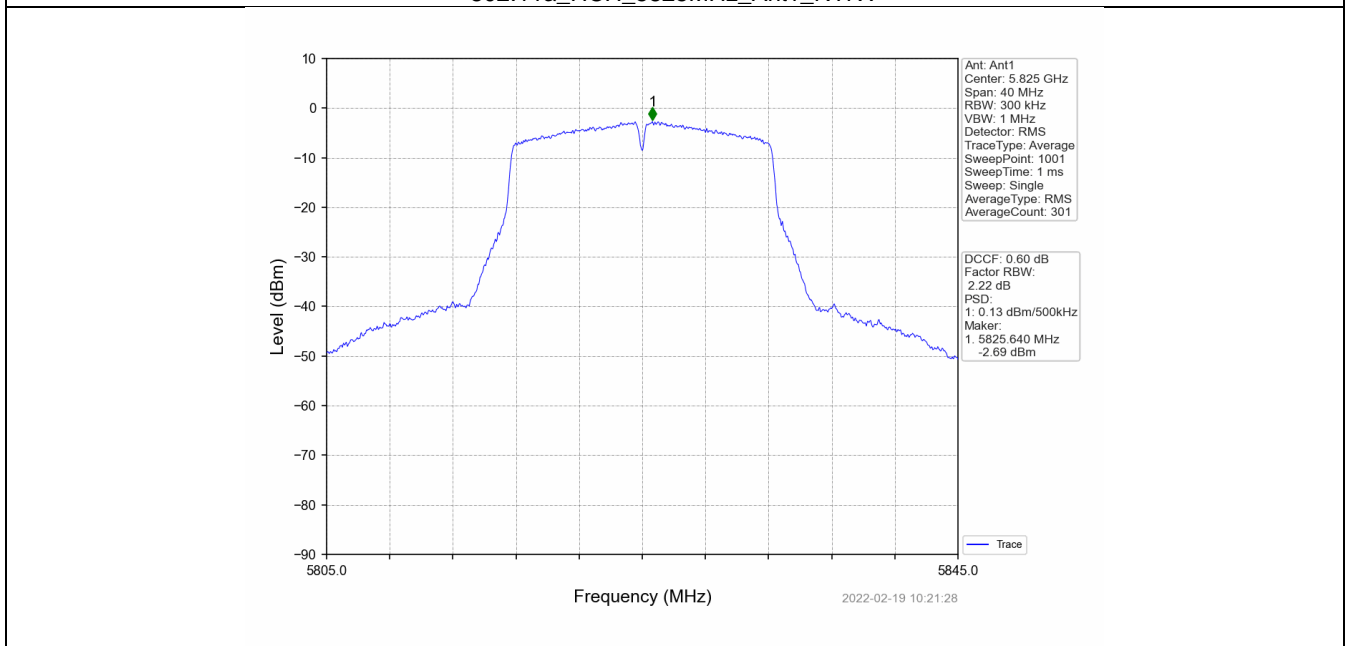
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802.11a\_HCH\_5825MHz\_Ant1\_NTNV



802.11a\_HCH\_5825MHz\_Ant2\_NTNV

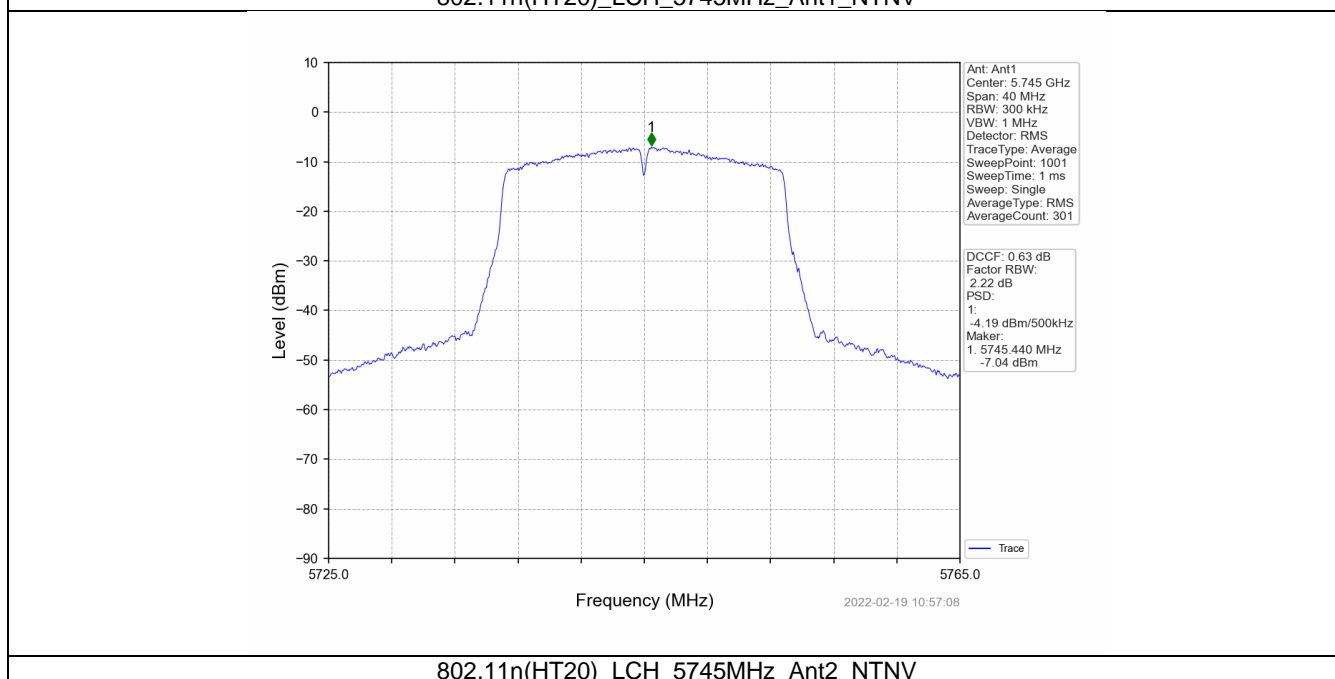
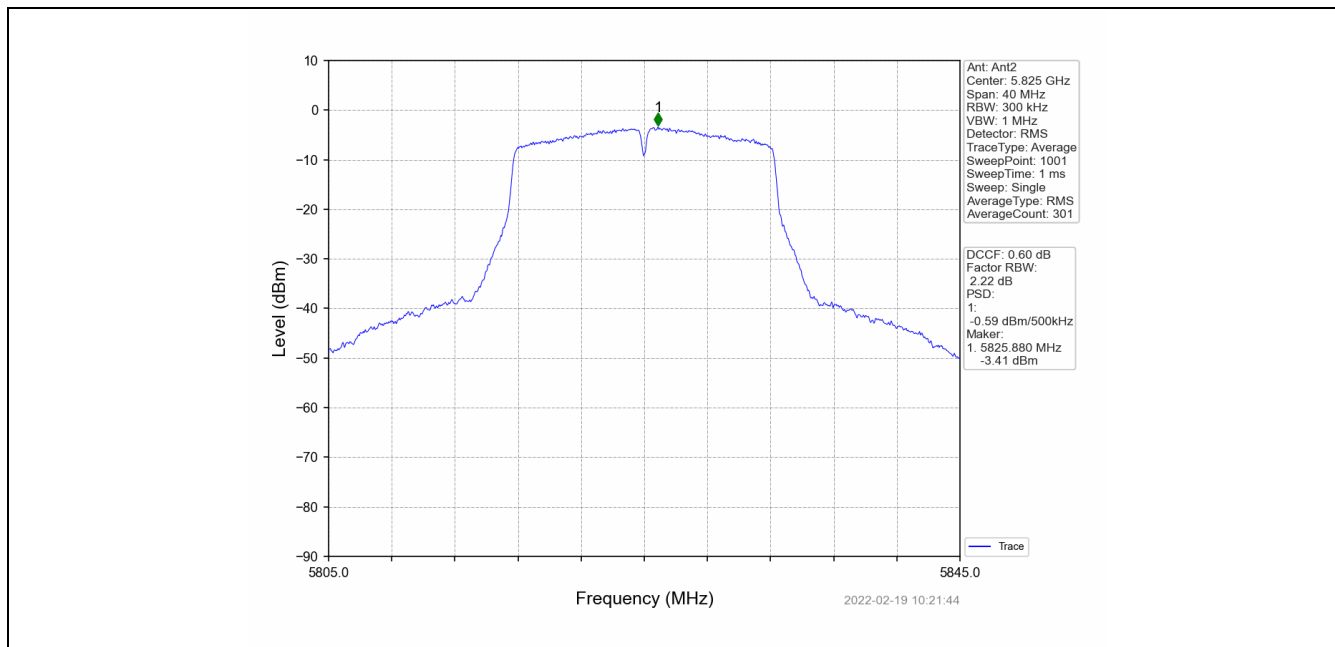


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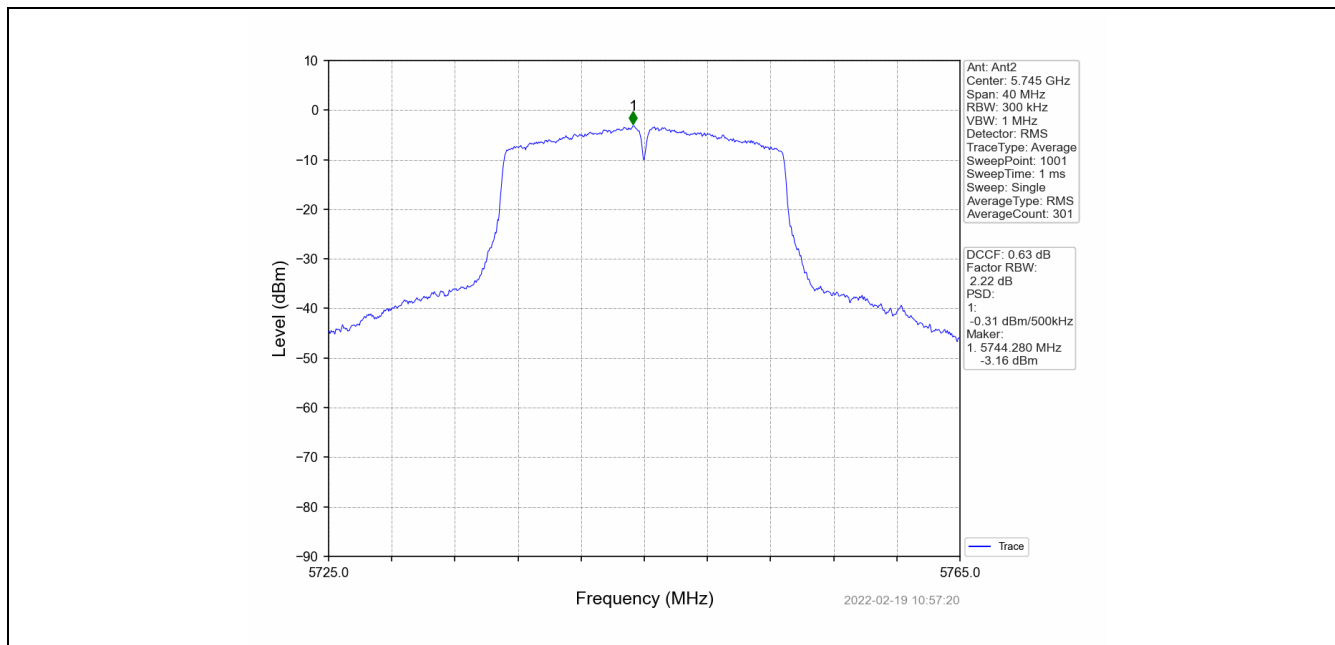
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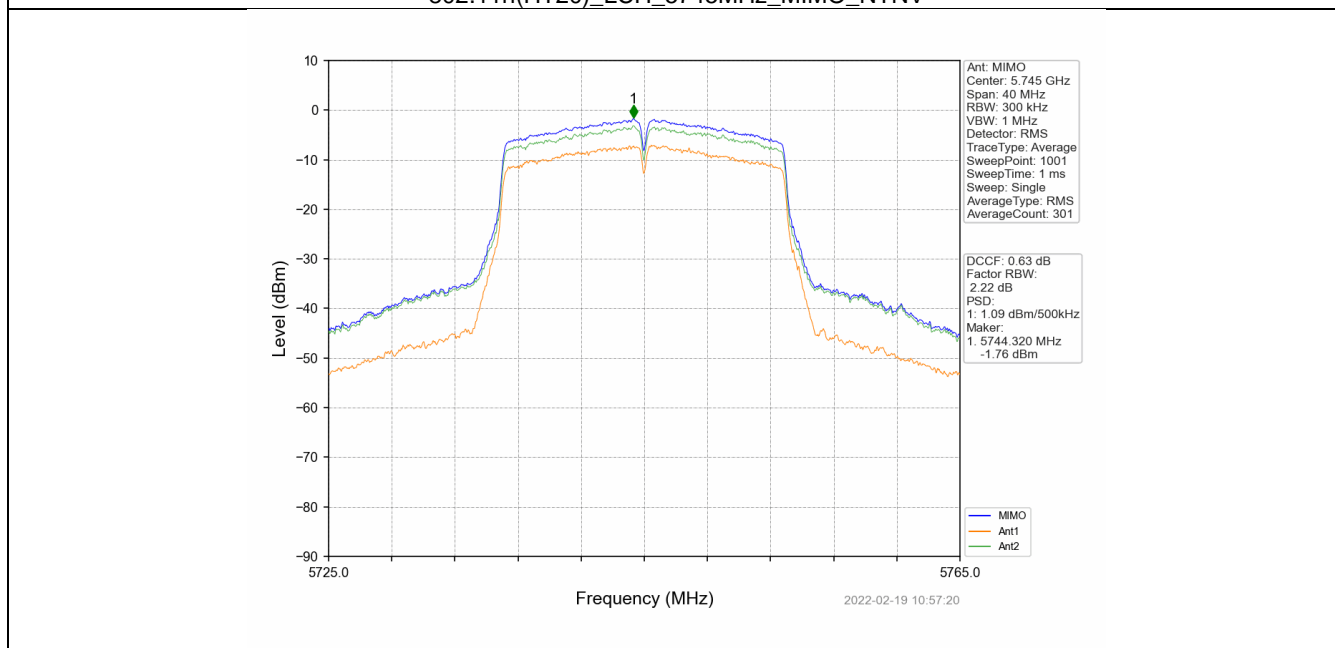
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802.11n(HT20)\_LCH\_5745MHz\_MIMO\_NTNV



802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV

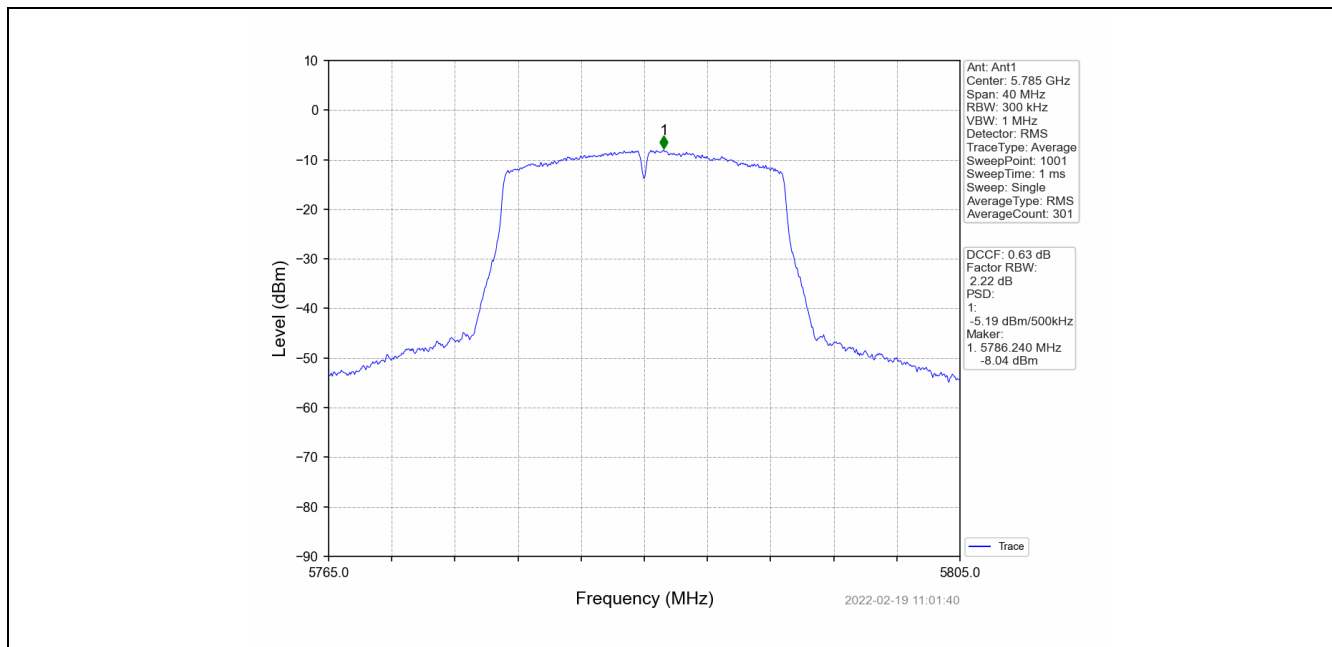


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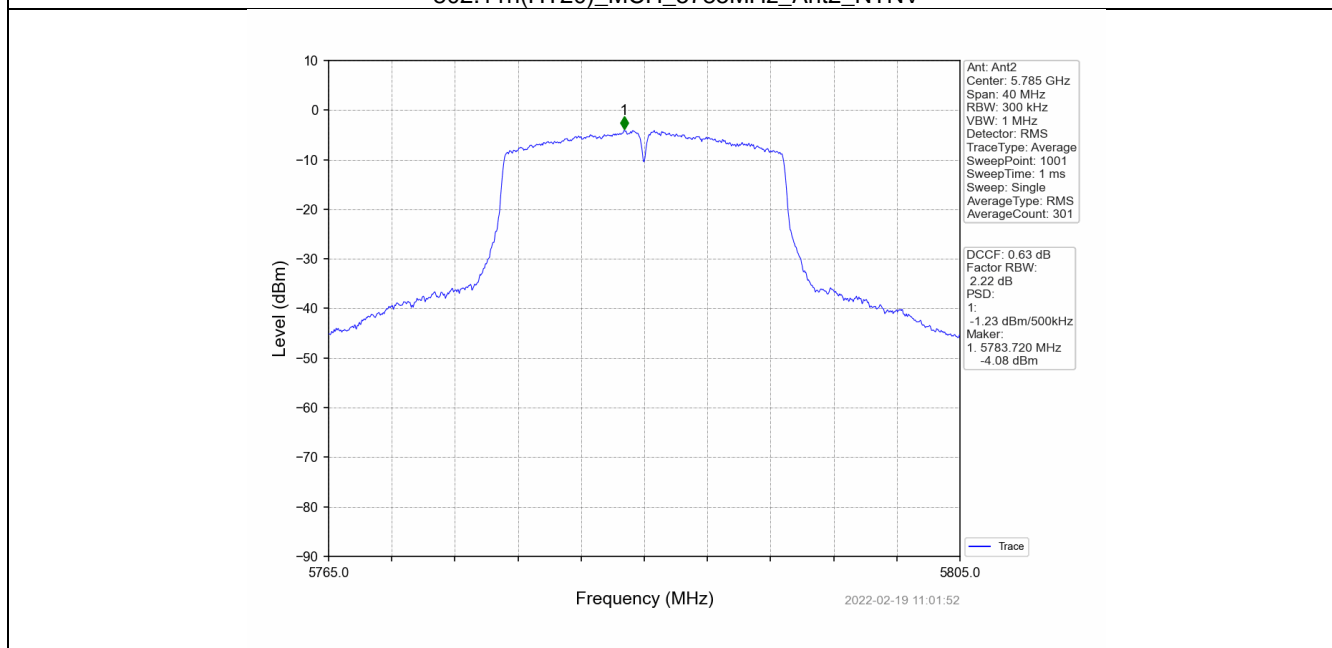
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802.11n(HT20)\_MCH\_5785MHz\_Ant2\_NTNV



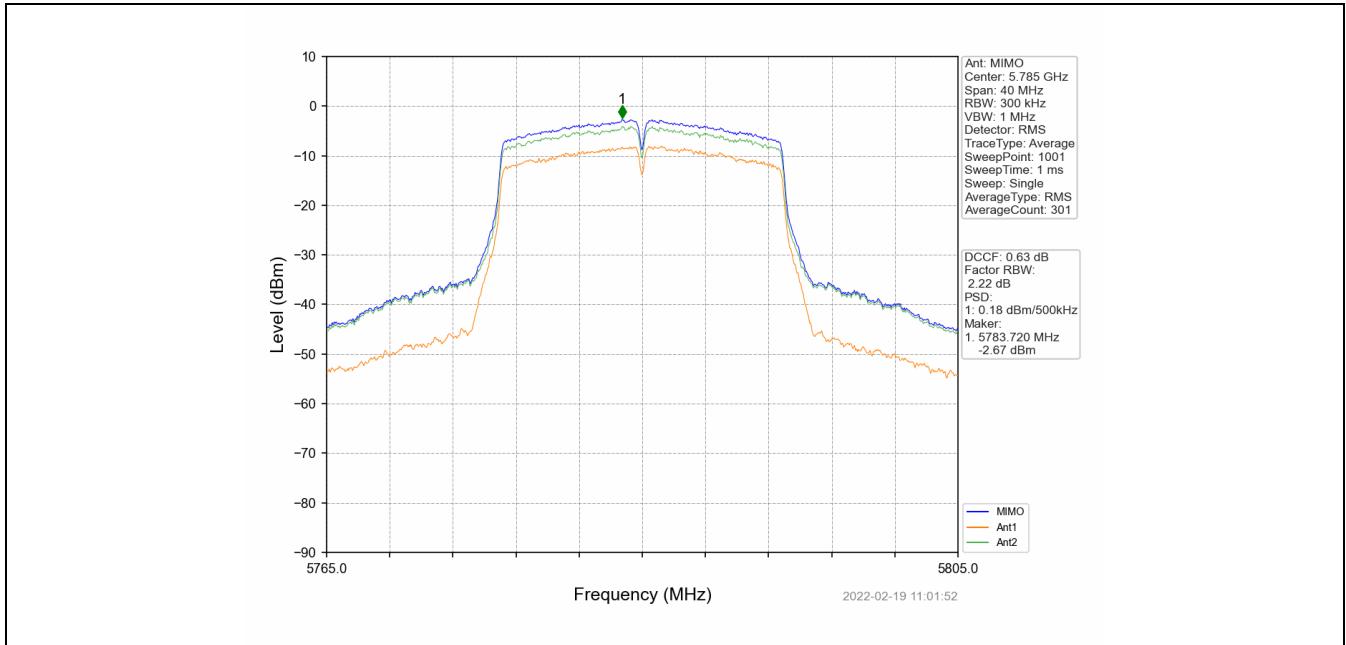
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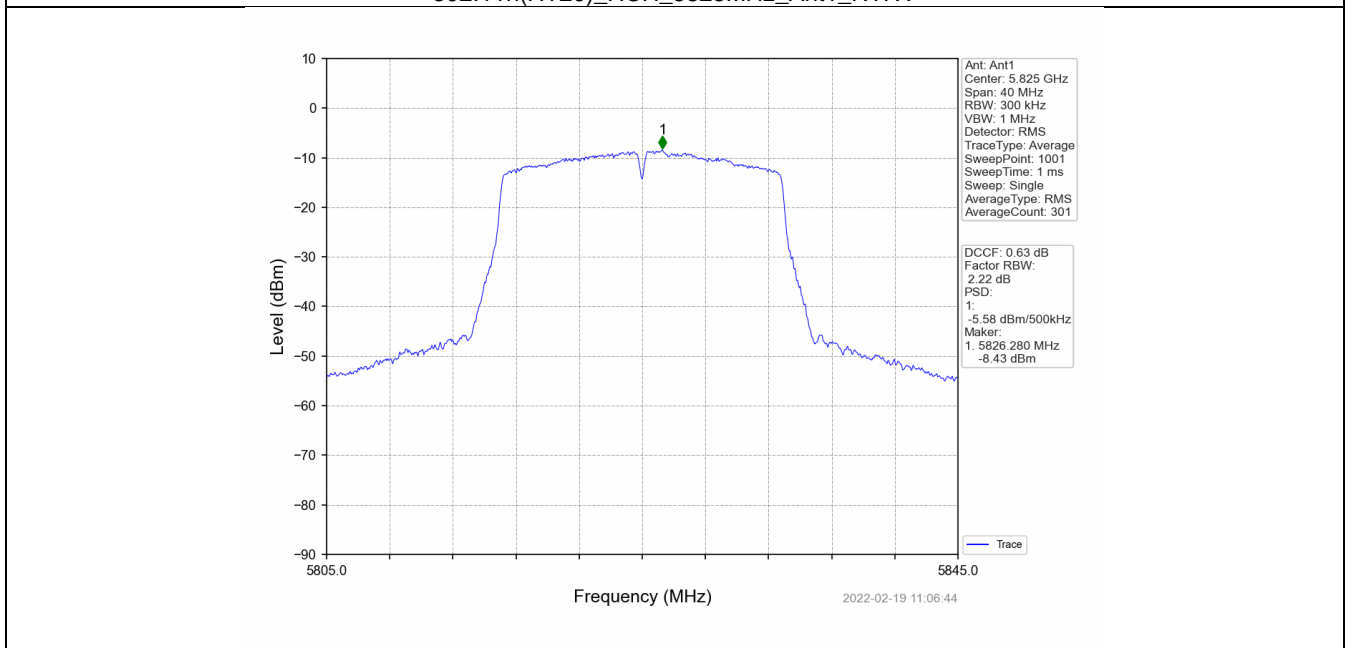
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802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5825MHz\_Ant2\_NTNV



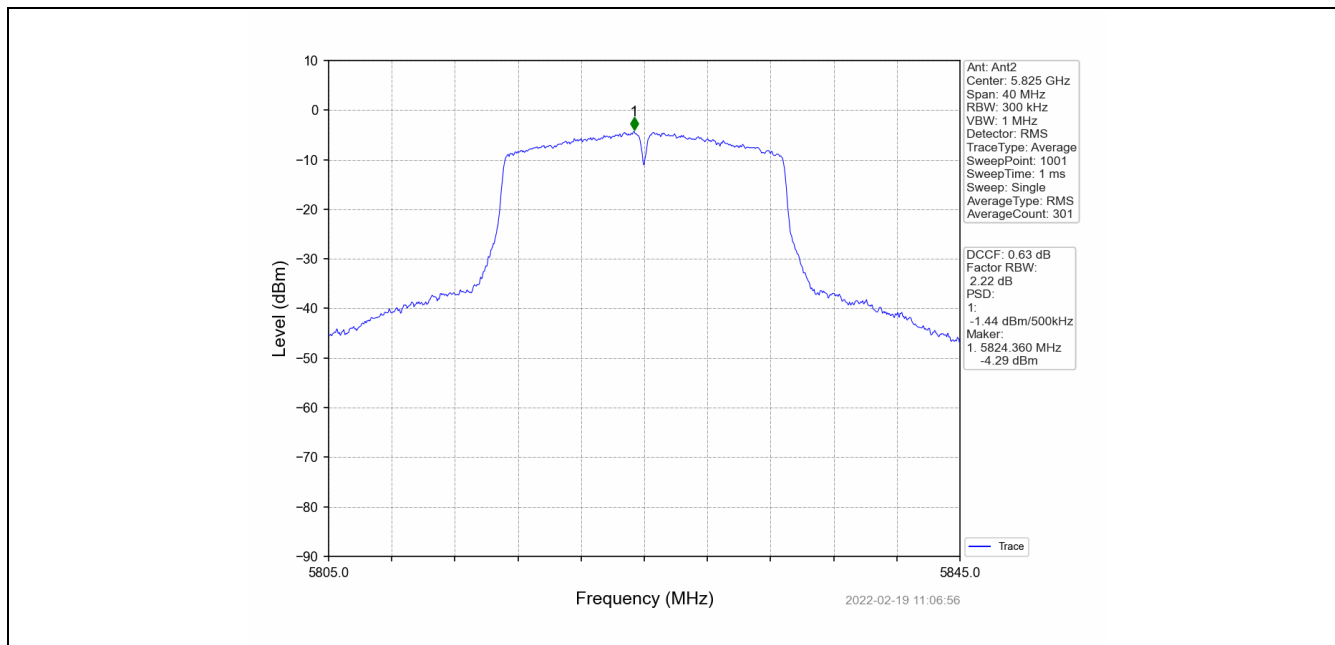
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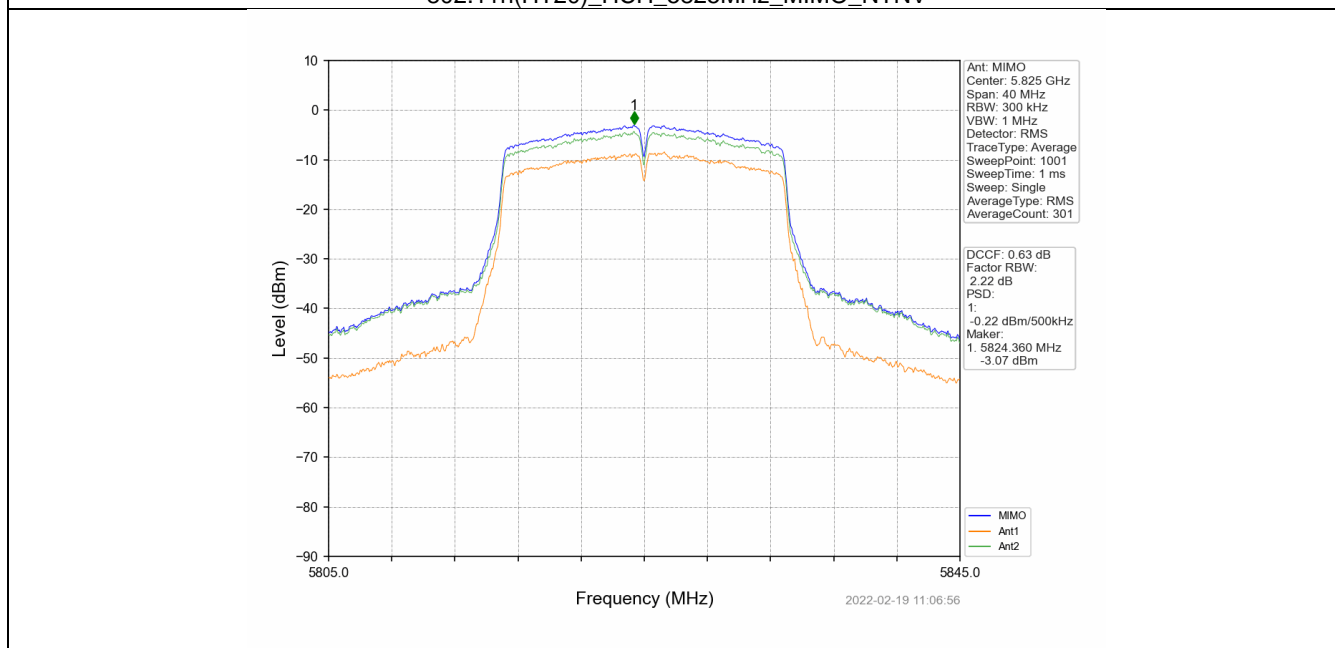
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802.11n(HT20)\_HCH\_5825MHz\_MIMO\_NTNV



802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV

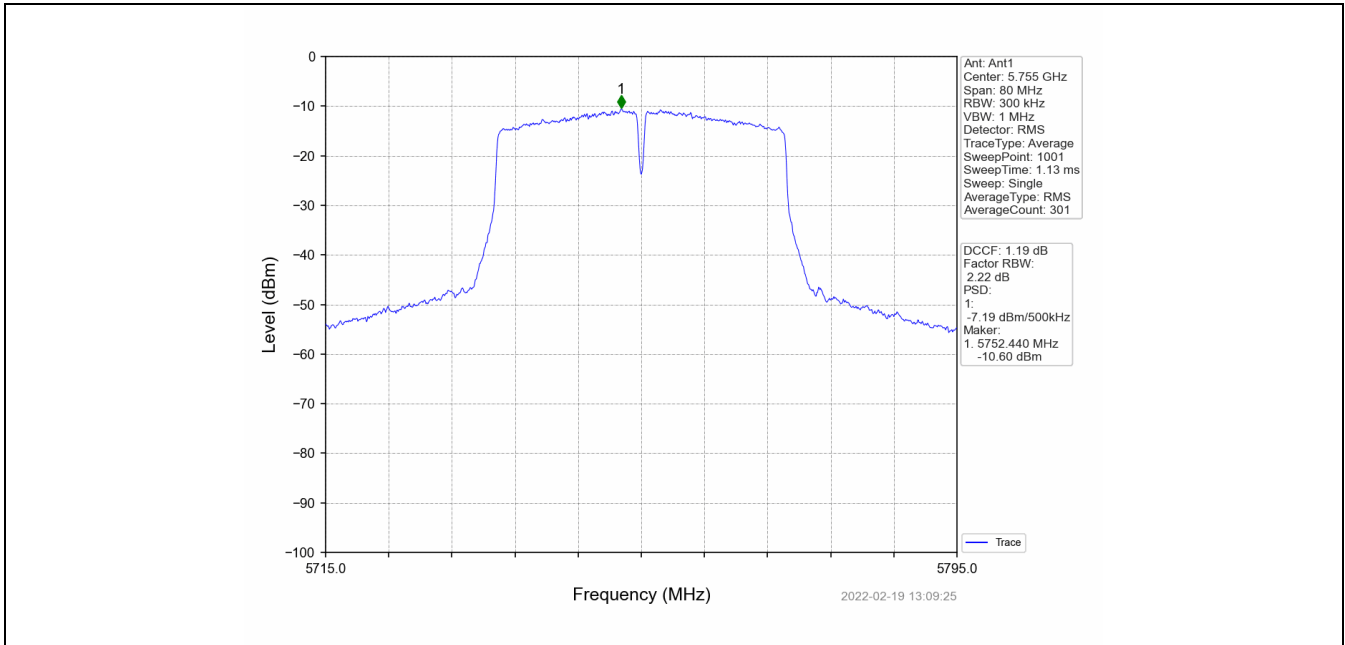


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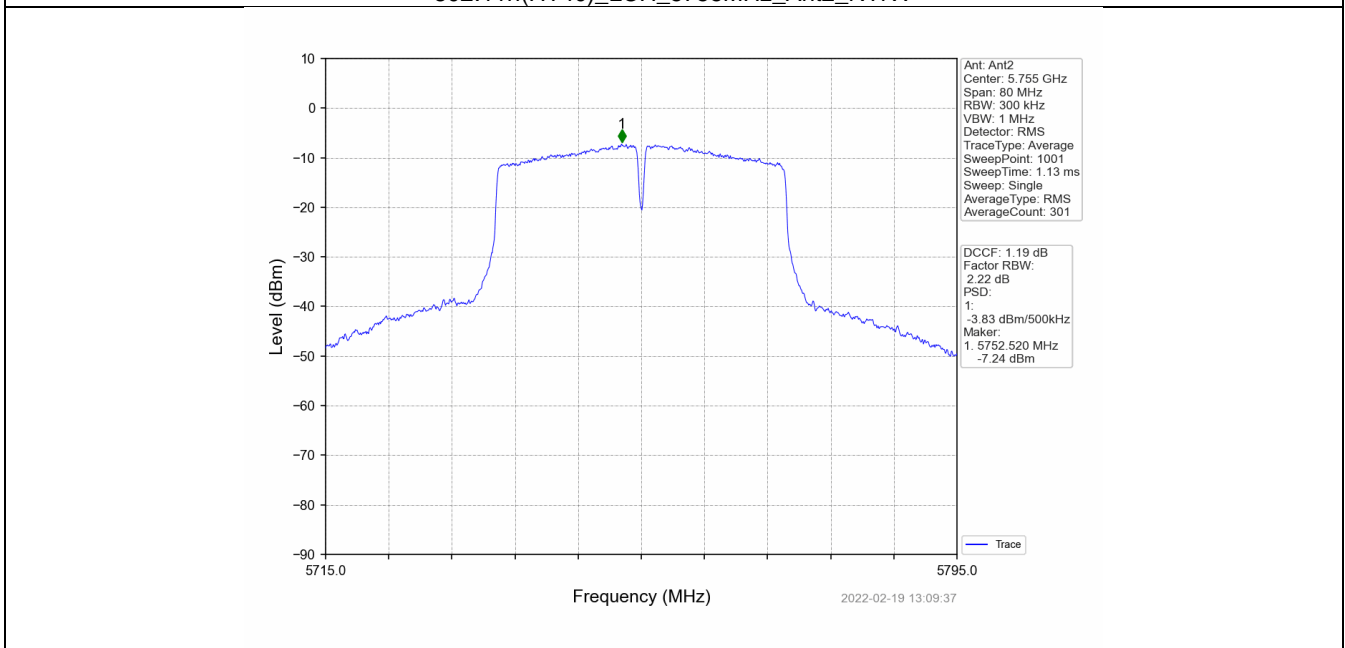
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802.11n(HT40)\_LCH\_5755MHz\_Ant2\_NTNV



802.11n(HT40)\_LCH\_5755MHz\_MIMO\_NTNV

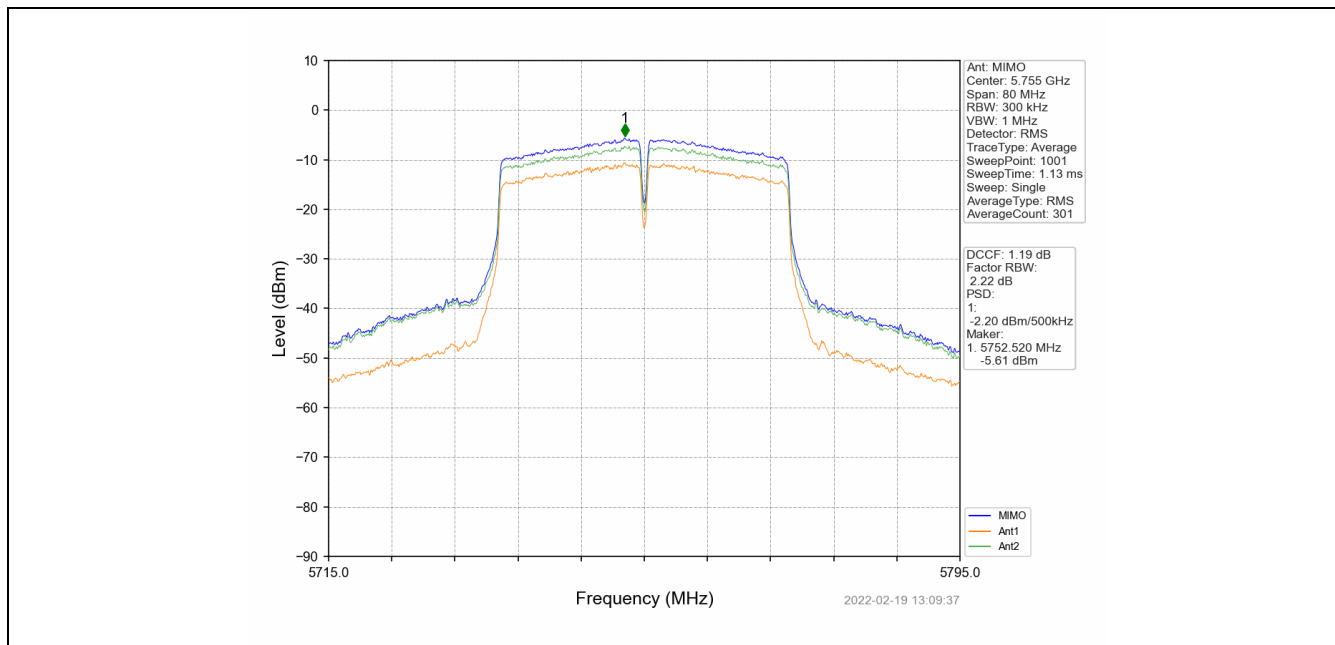


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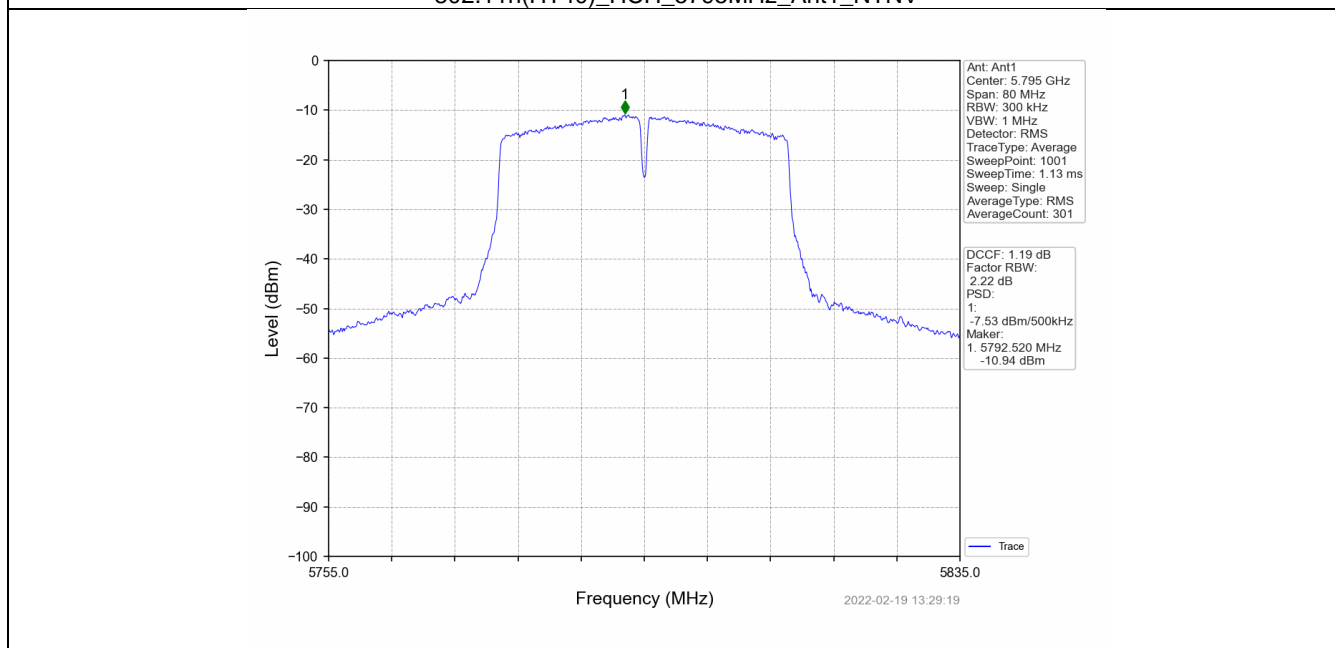
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802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



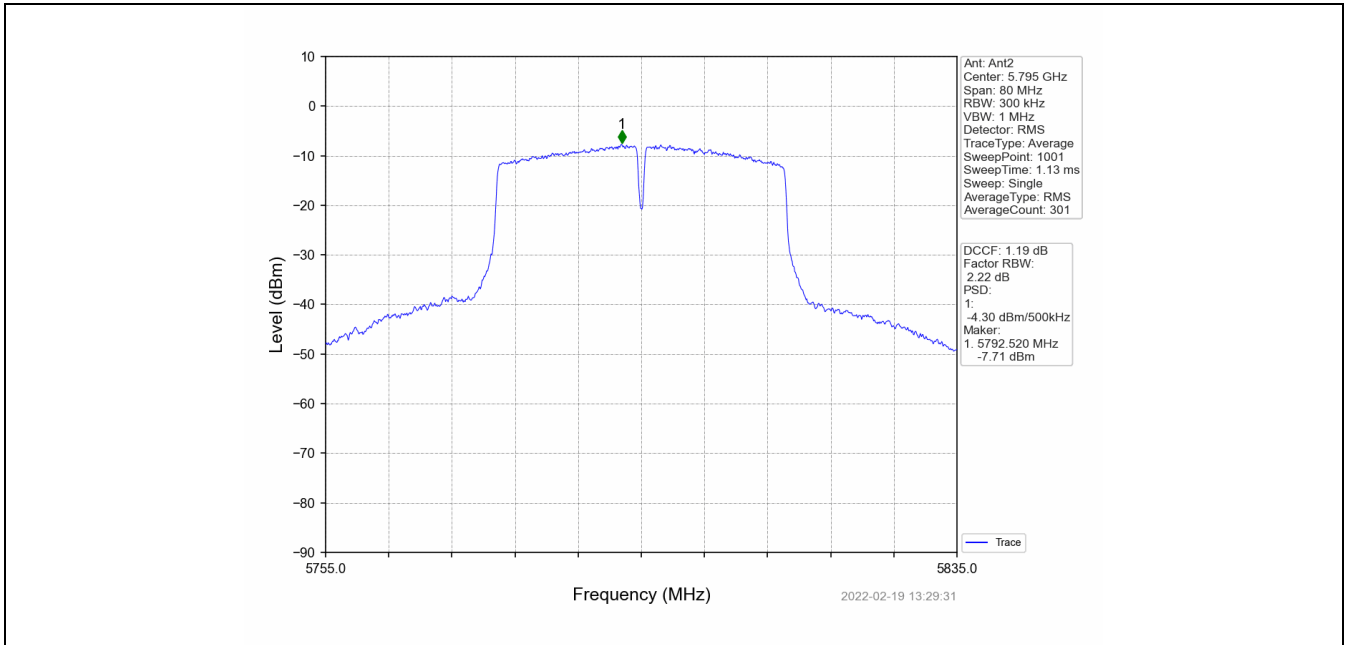
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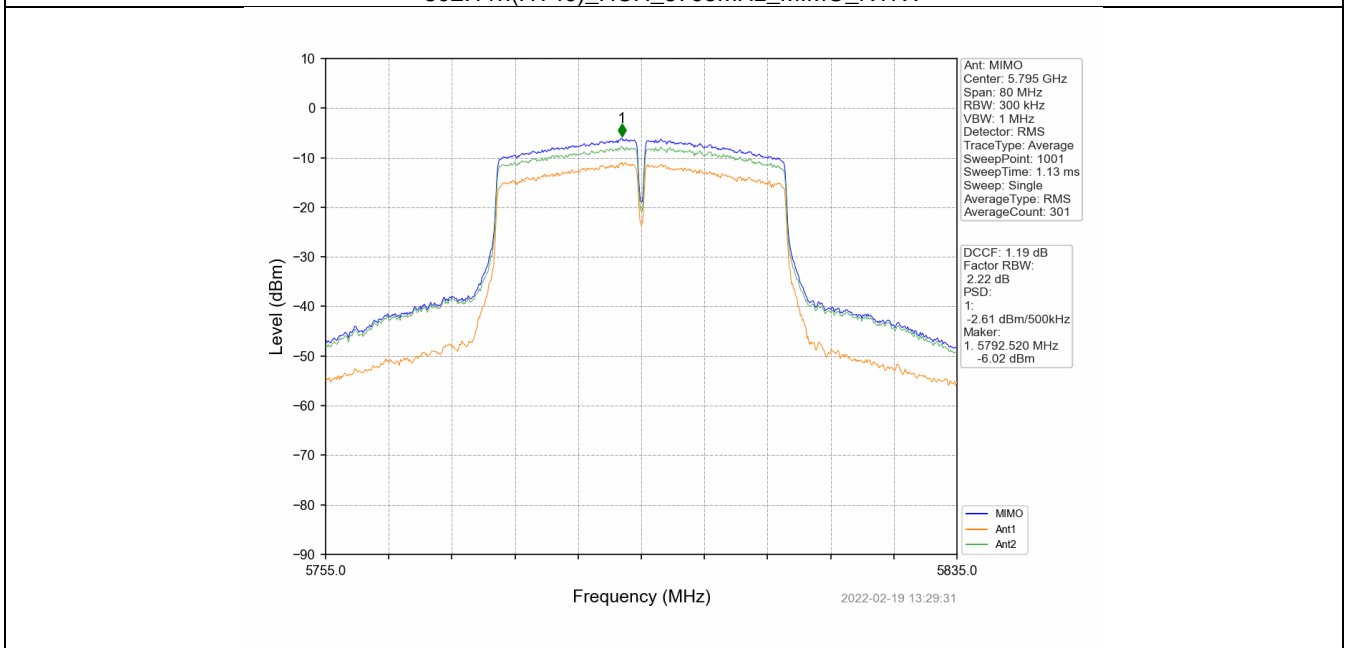
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802.11n(HT40)\_HCH\_5795MHz\_MIMO\_NTNV



802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV

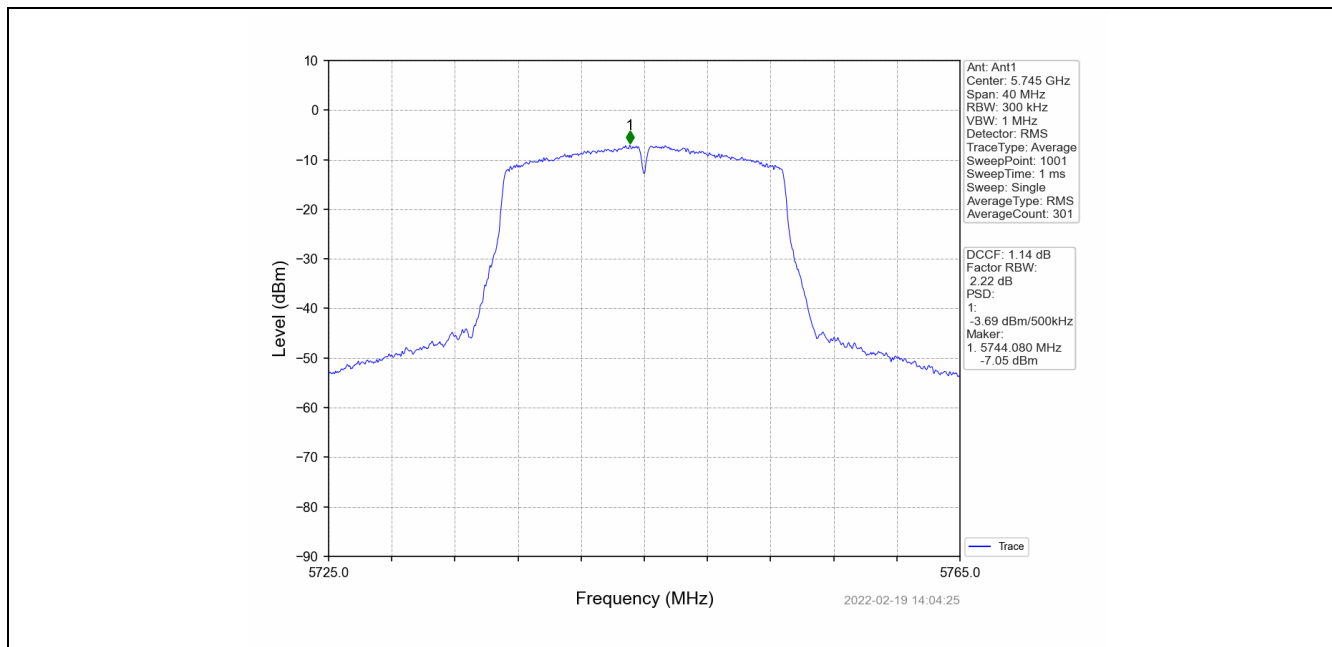


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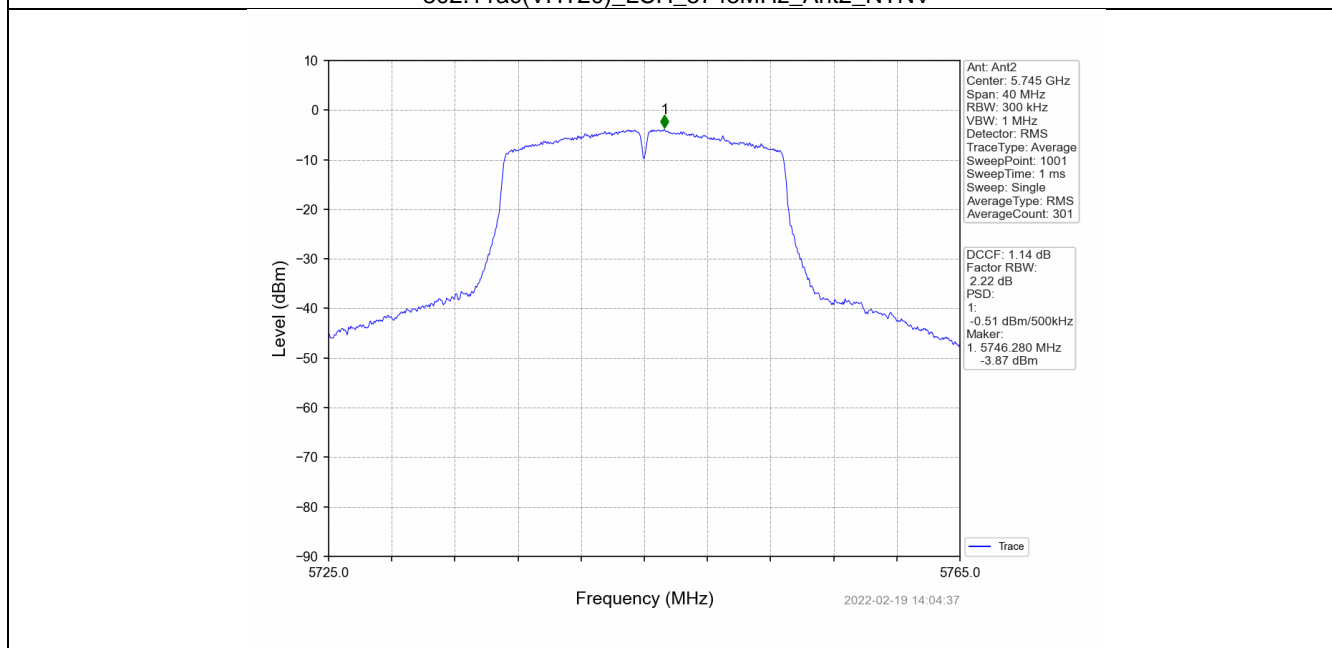
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802.11ac(VHT20)\_LCH\_5745MHz\_Ant2\_NTNV



802.11ac(VHT20)\_LCH\_5745MHz\_MIMO\_NTNV



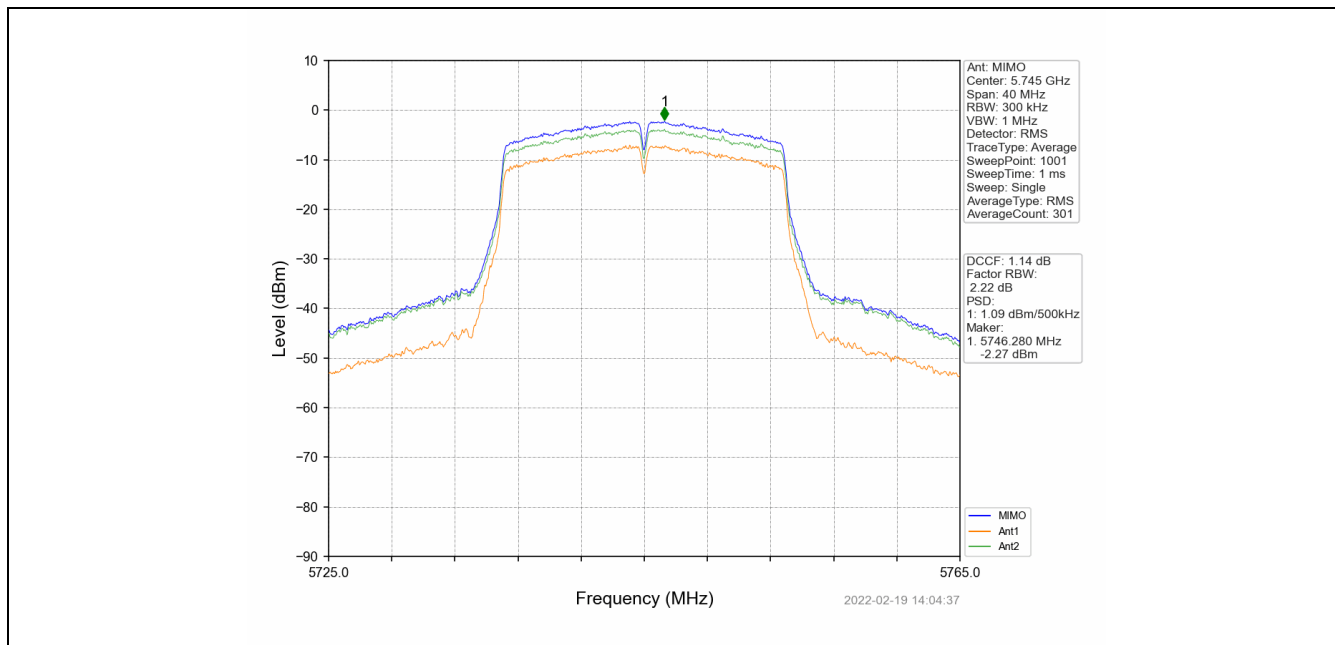
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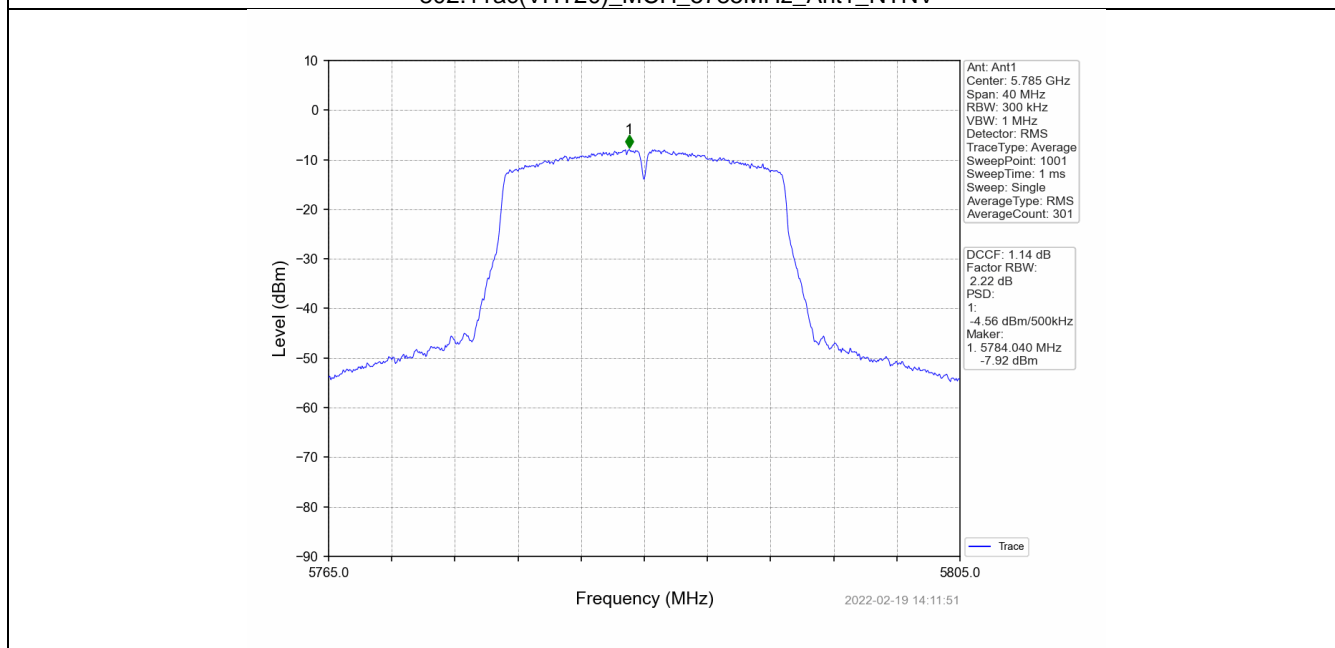
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802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV

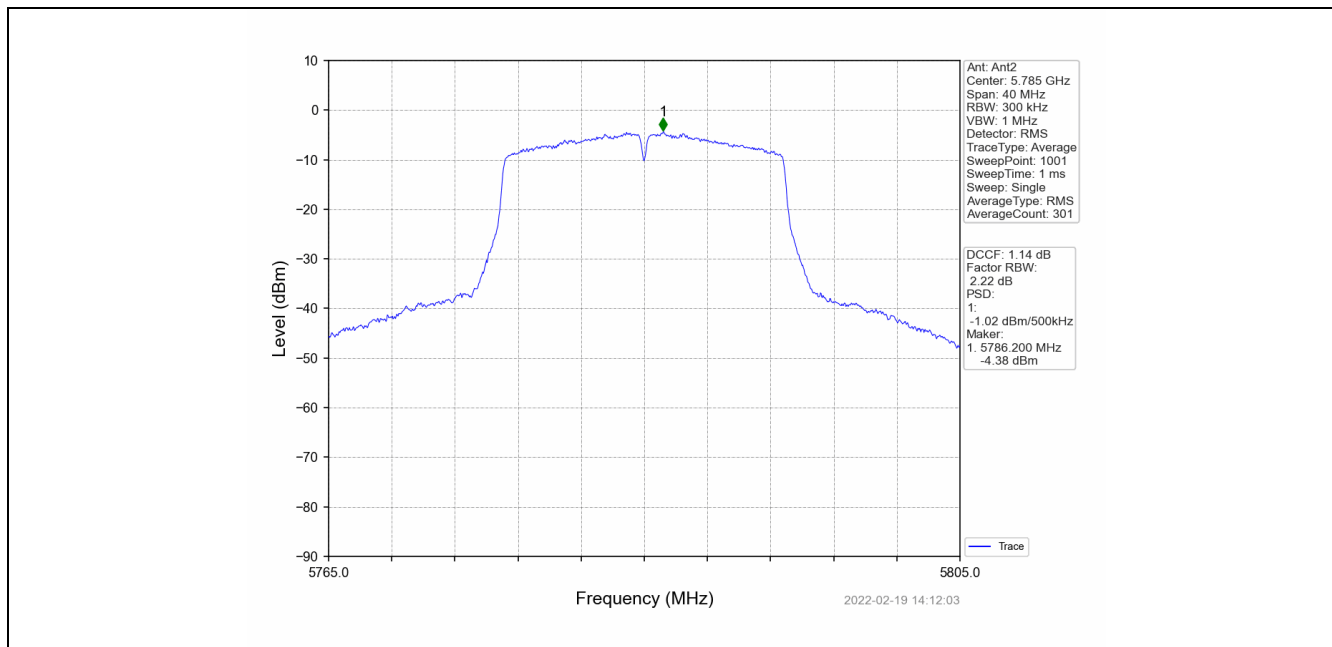


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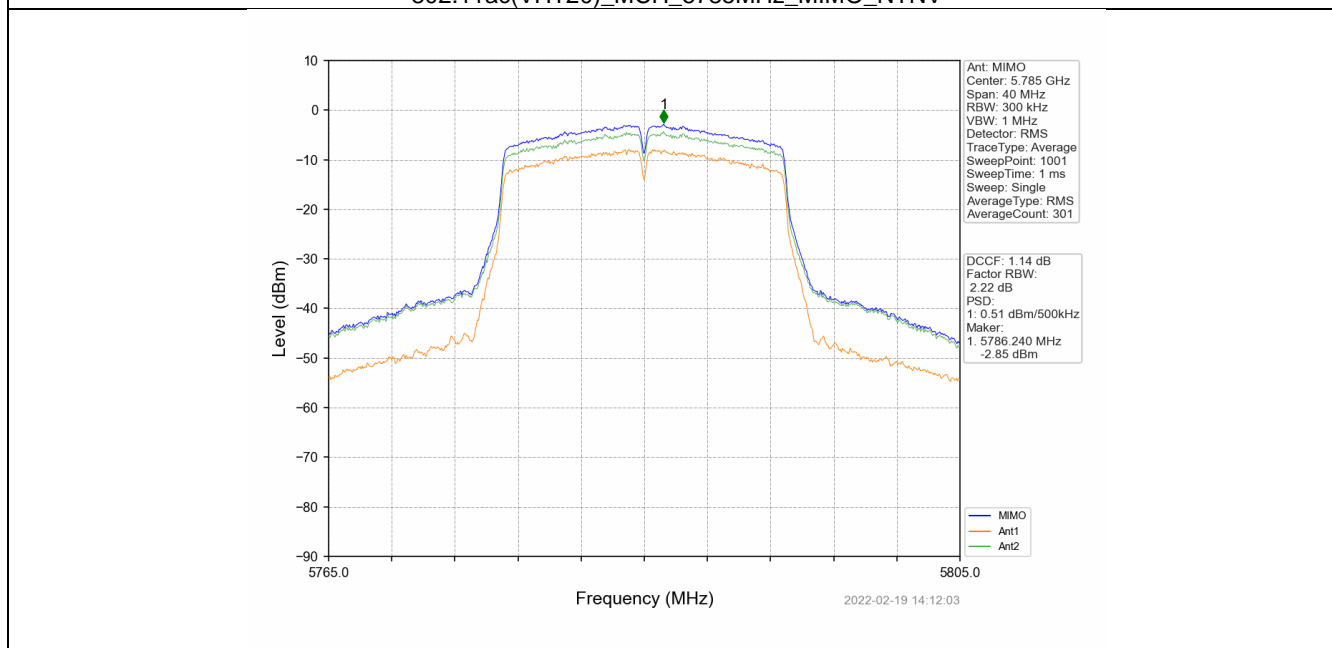


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802.11ac(VHT20)\_MCH\_5785MHz\_MIMO\_NTNV



802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV

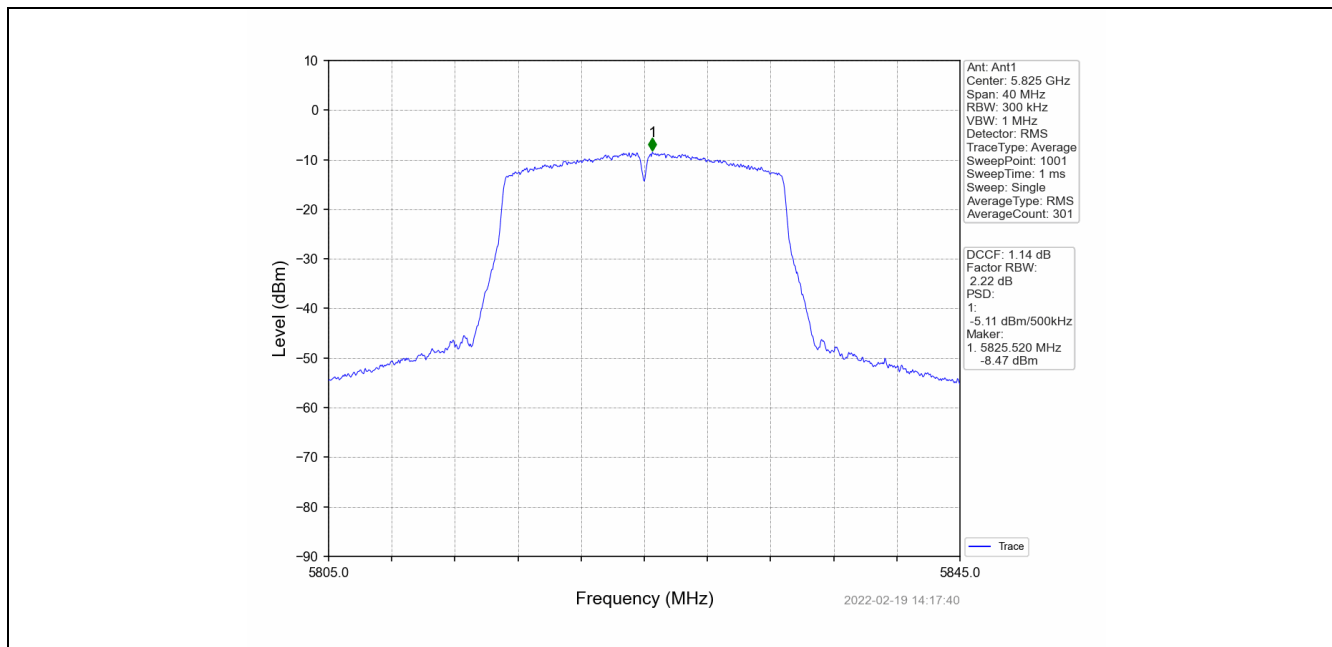


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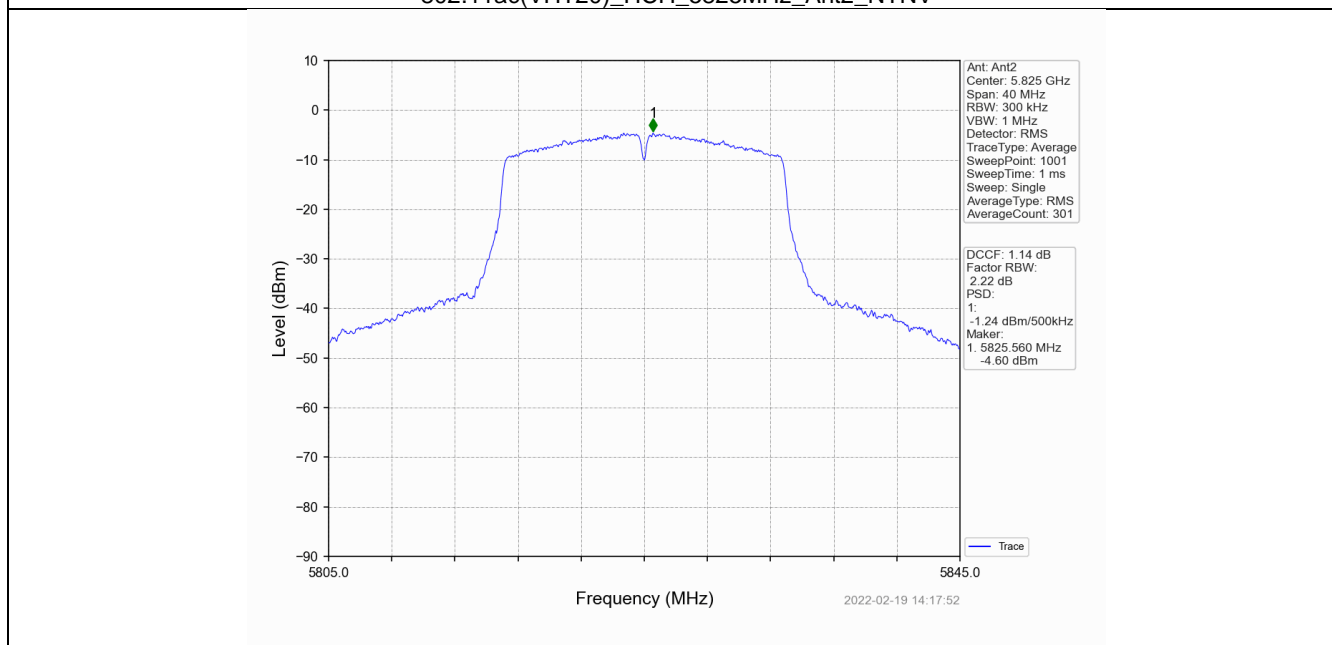
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant2\_NTNV



802.11ac(VHT20)\_HCH\_5825MHz\_MIMO\_NTNV

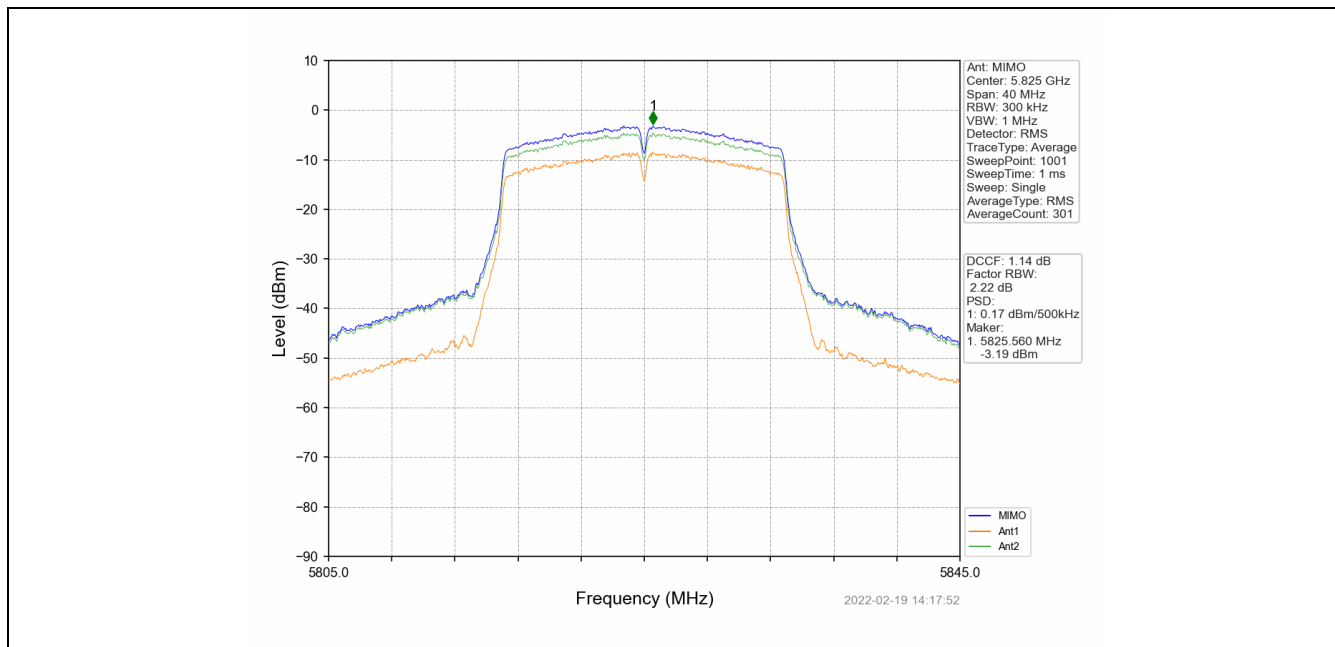


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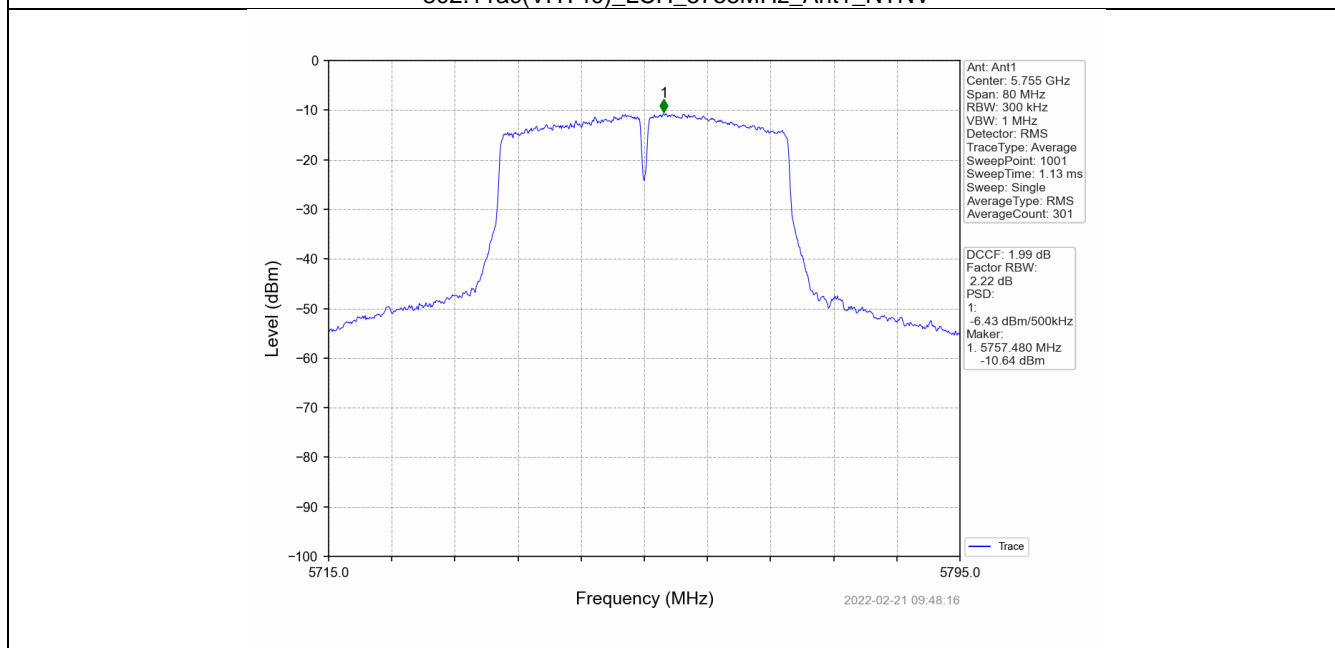
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5755MHz\_Ant2\_NTNV

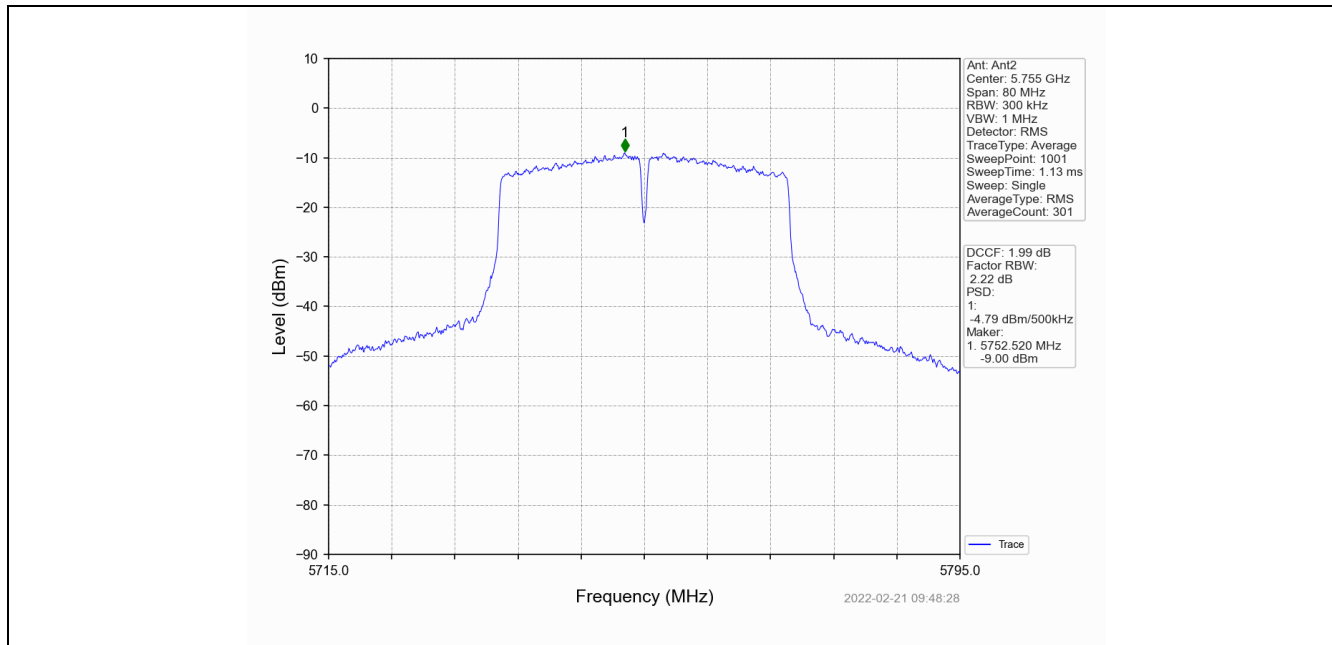


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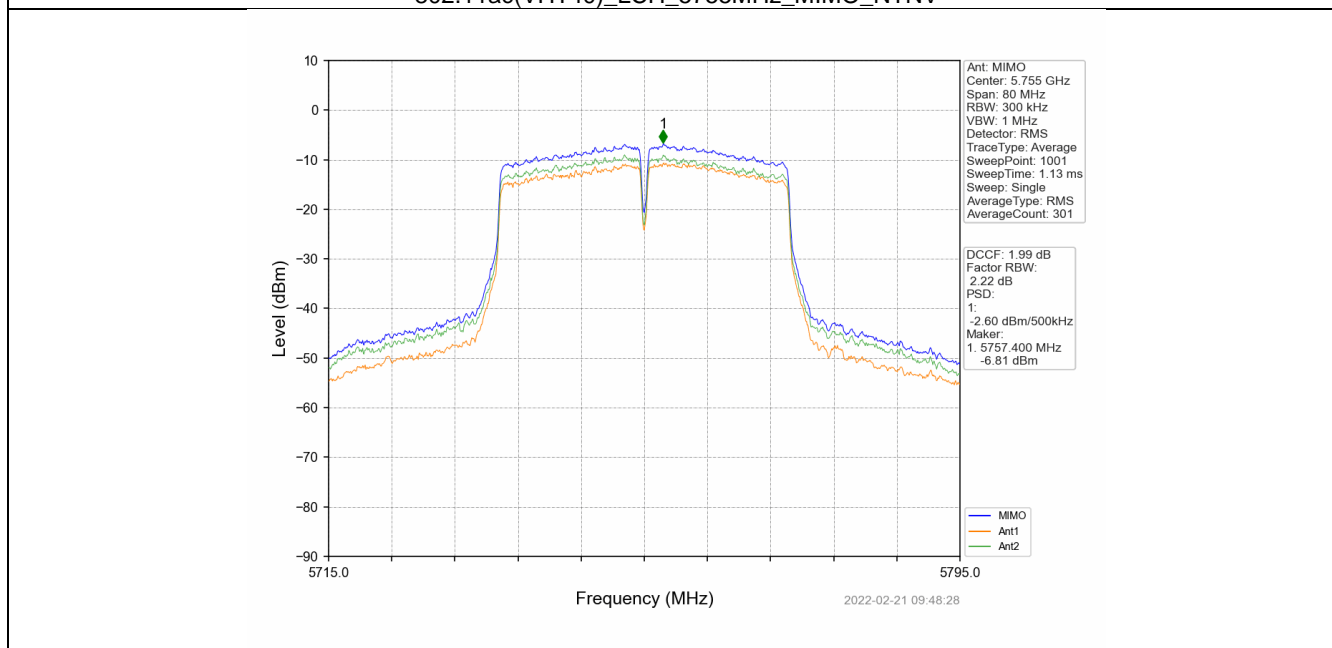
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802.11ac(VHT40)\_LCH\_5755MHz\_MIMO\_NTNV



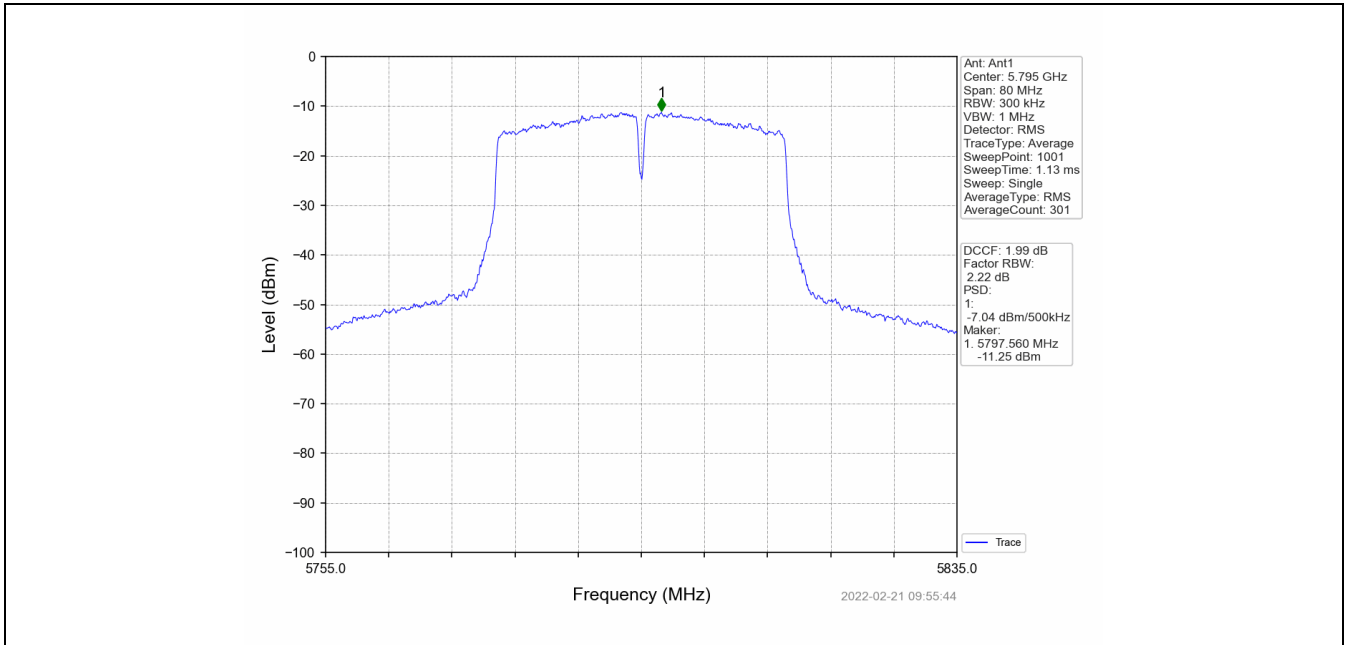
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



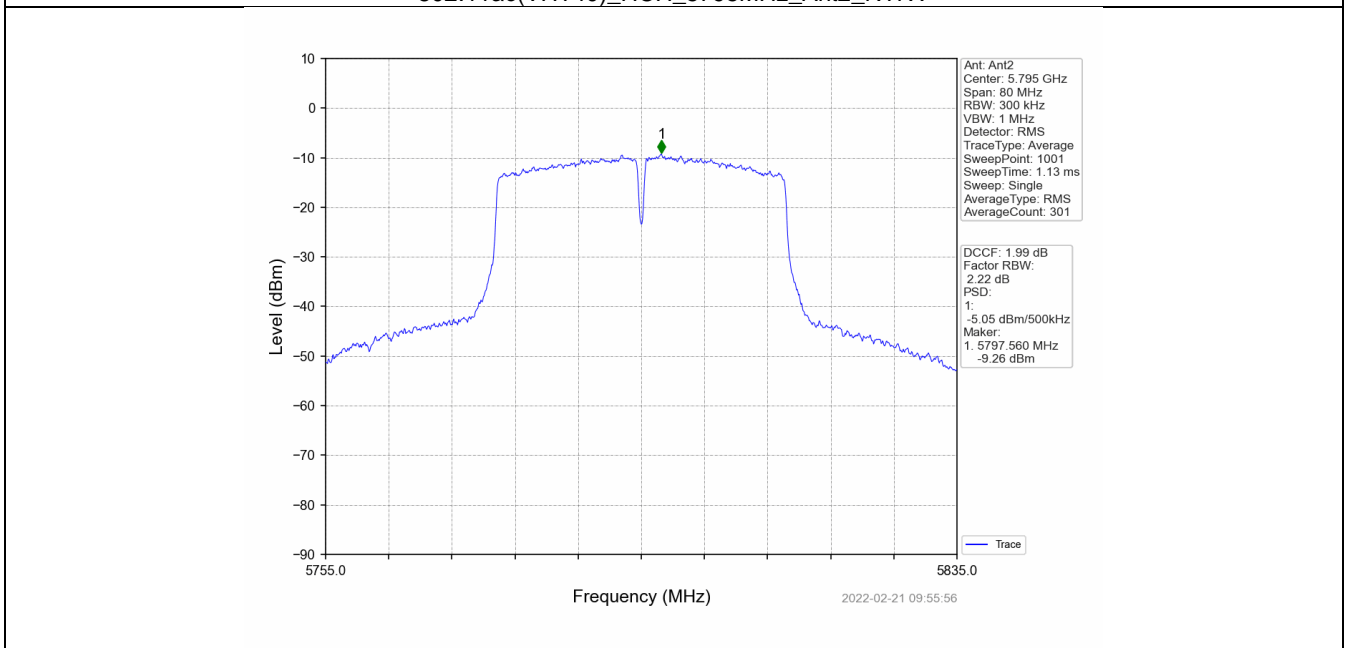
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant2\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_MIMO\_NTNV



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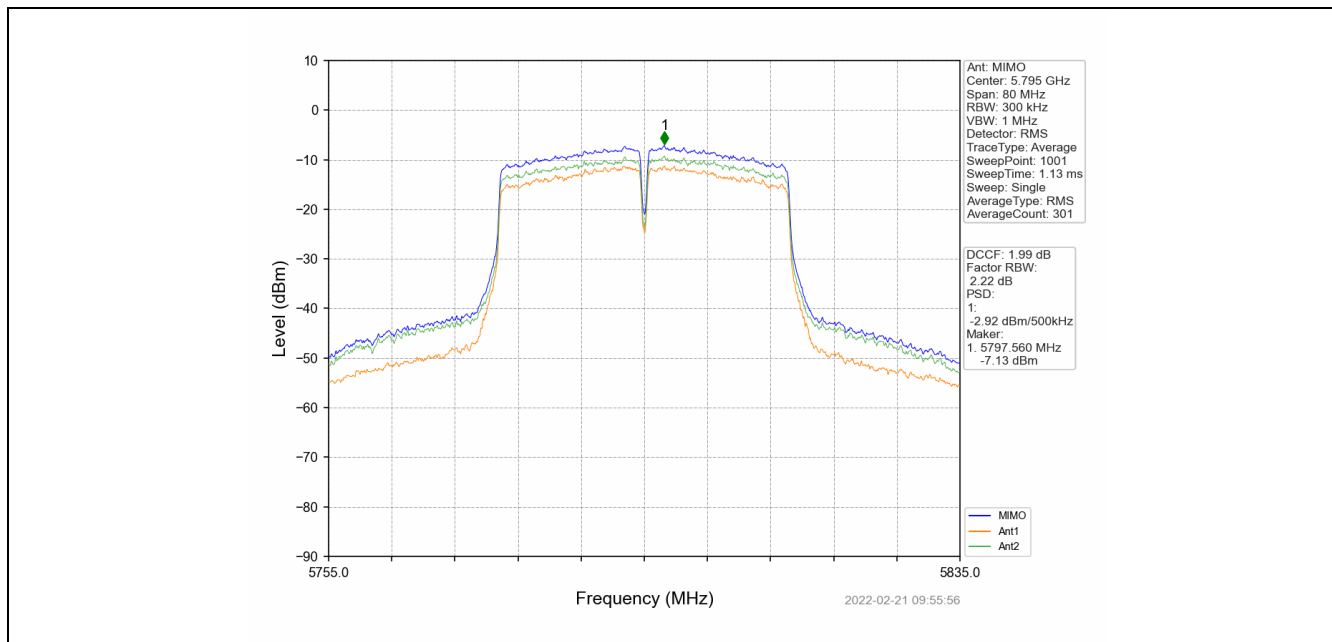
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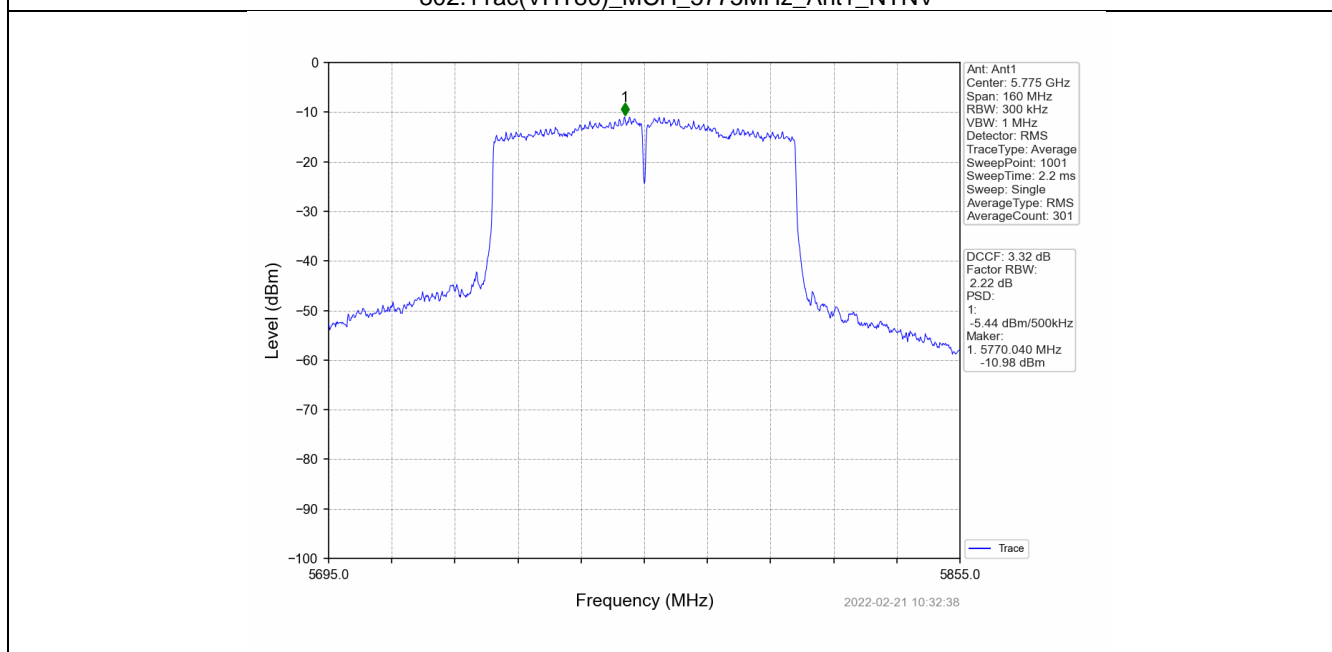
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802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant2\_NTNV

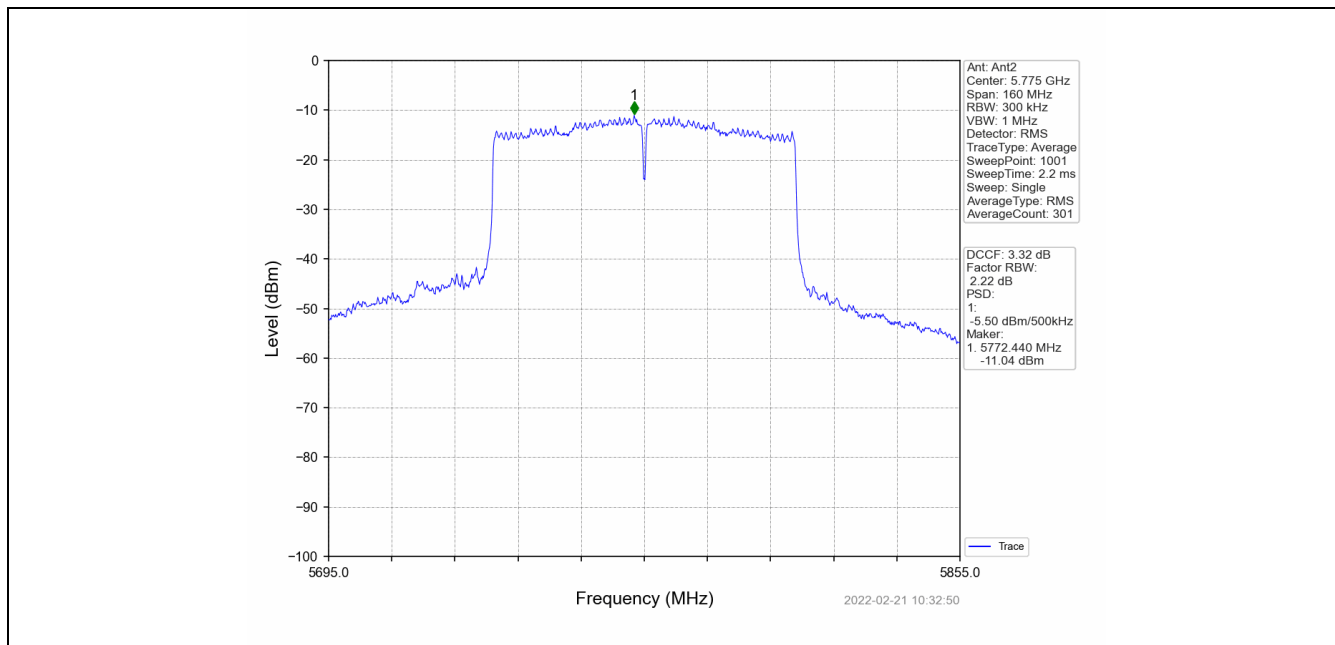


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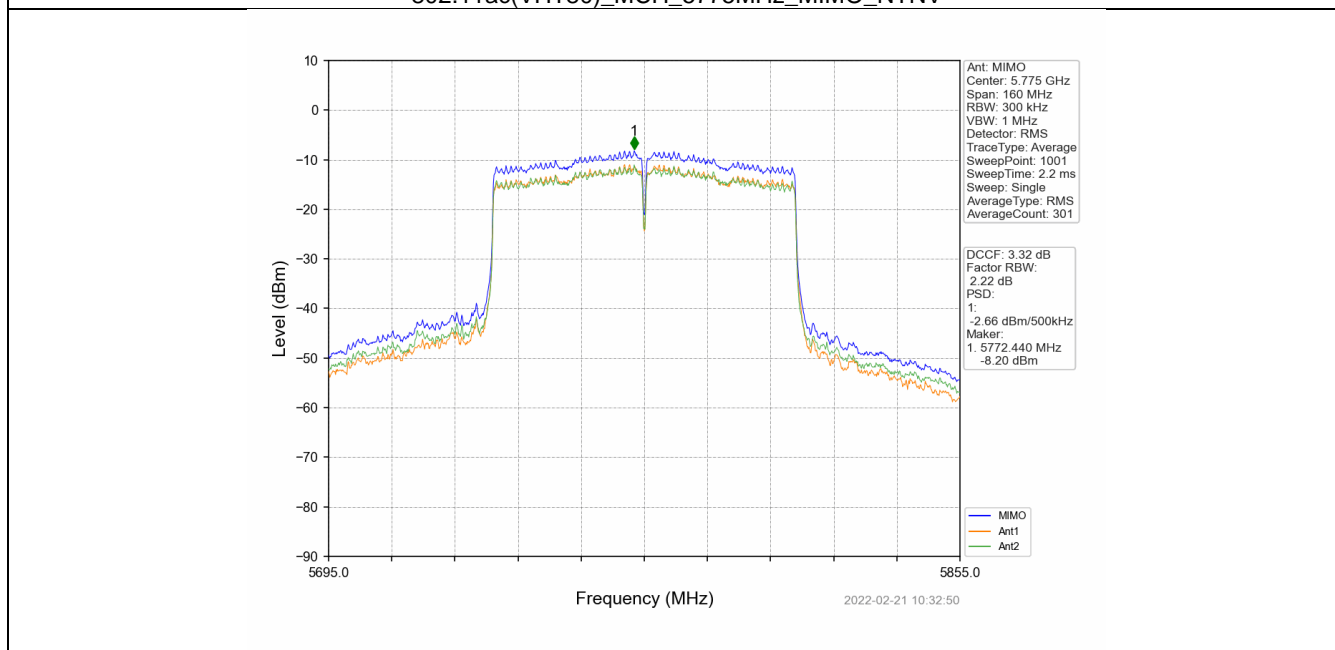
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802.11ac(VHT80)\_MCH\_5775MHz\_MIMO\_NTNV



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## 5. Frequency Stability

### 5.1 Ant1

#### 5.1.1 Test Result

Ant1								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict	
802.11a	SISO	5180	20	102	5179.980	5150 to 5250	Pass	
				120	5180.000	5150 to 5250	Pass	
				138	5179.960	5150 to 5250	Pass	
			-30	120	5179.980	5150 to 5250	Pass	
				-20	120	5180.000	5150 to 5250	Pass
					120	5179.940	5150 to 5250	Pass
			0	120	5180.020	5150 to 5250	Pass	
				10	120	5180.000	5150 to 5250	Pass
				30	120	5179.920	5150 to 5250	Pass
		40	120	5180.000	5150 to 5250	Pass		
			50	120	5179.960	5150 to 5250	Pass	
				102	5199.900	5150 to 5250	Pass	
		5200	20	20	120	5199.940	5150 to 5250	Pass
					138	5200.000	5150 to 5250	Pass
					120	5199.980	5150 to 5250	Pass
			-30	-20	120	5199.960	5150 to 5250	Pass
					120	5199.960	5150 to 5250	Pass
				-10	120	5200.020	5150 to 5250	Pass
			0	120	5199.920	5150 to 5250	Pass	
				10	120	5199.900	5150 to 5250	Pass
				30	120	5199.920	5150 to 5250	Pass
		40	120	5199.960	5150 to 5250	Pass		
			50	120	5199.960	5150 to 5250	Pass	
				102	5239.940	5150 to 5250	Pass	
		5240	20	20	120	5239.920	5150 to 5250	Pass
					138	5239.920	5150 to 5250	Pass
					120	5239.940	5150 to 5250	Pass
			-30	-20	120	5239.980	5150 to 5250	Pass
					120	5239.980	5150 to 5250	Pass
				-10	120	5239.880	5150 to 5250	Pass
			0	120	5239.960	5150 to 5250	Pass	
				10	120	5239.900	5150 to 5250	Pass
				30	120	5239.920	5150 to 5250	Pass
		40	120	5239.920	5150 to 5250	Pass		
			50	120	5239.980	5150 to 5250	Pass	
				102	5744.960	5725 to 5850	Pass	
		5745	20	20	120	5744.940	5725 to 5850	Pass
					138	5744.860	5725 to 5850	Pass
					120	5744.920	5725 to 5850	Pass
			-30	-20	120	5744.980	5725 to 5850	Pass
					120	5744.980	5725 to 5850	Pass
				-10	120	5744.960	5725 to 5850	Pass
			0	120	5745.020	5725 to 5850	Pass	
				10	120	5744.960	5725 to 5850	Pass
				30	120	5744.880	5725 to 5850	Pass
40	120	5745.020	5725 to 5850	Pass				
	50	120	5745.020	5725 to 5850	Pass			
		102	5784.900	5725 to 5850	Pass			
5785	20	102	5784.900	5725 to 5850	Pass			

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				120	5784.980	5725 to 5850	Pass		
				138	5784.920	5725 to 5850	Pass		
				-30	120	5784.980	5725 to 5850	Pass	
				-20	120	5784.960	5725 to 5850	Pass	
				-10	120	5784.960	5725 to 5850	Pass	
				0	120	5784.920	5725 to 5850	Pass	
				10	120	5784.980	5725 to 5850	Pass	
				30	120	5784.980	5725 to 5850	Pass	
				40	120	5784.960	5725 to 5850	Pass	
				50	120	5784.920	5725 to 5850	Pass	
				5825	20	102	5824.900	5725 to 5850	Pass
						120	5824.880	5725 to 5850	Pass
						138	5824.980	5725 to 5850	Pass
					-30	120	5824.960	5725 to 5850	Pass
					-20	120	5824.960	5725 to 5850	Pass
					-10	120	5824.960	5725 to 5850	Pass
					0	120	5824.900	5725 to 5850	Pass
					10	120	5824.920	5725 to 5850	Pass
					30	120	5824.860	5725 to 5850	Pass
					40	120	5824.900	5725 to 5850	Pass
50	120	5824.980	5725 to 5850	Pass					
802.11n (HT20)	MIMO	5180	20	102	5179.940	5150 to 5250	Pass		
				120	5179.960	5150 to 5250	Pass		
				138	5179.920	5150 to 5250	Pass		
			-30	120	5179.980	5150 to 5250	Pass		
			-20	120	5179.960	5150 to 5250	Pass		
			-10	120	5179.960	5150 to 5250	Pass		
			0	120	5179.960	5150 to 5250	Pass		
			10	120	5180.000	5150 to 5250	Pass		
			30	120	5179.960	5150 to 5250	Pass		
			40	120	5179.920	5150 to 5250	Pass		
		50	120	5180.000	5150 to 5250	Pass			
		5200	20	102	5200.000	5150 to 5250	Pass		
				120	5199.920	5150 to 5250	Pass		
				138	5200.000	5150 to 5250	Pass		
			-30	120	5199.980	5150 to 5250	Pass		
-20	120		5200.000	5150 to 5250	Pass				
-10	120	5200.000	5150 to 5250	Pass					
0	120	5200.040	5150 to 5250	Pass					
10	120	5199.940	5150 to 5250	Pass					
30	120	5199.980	5150 to 5250	Pass					
40	120	5199.940	5150 to 5250	Pass					
50	120	5199.960	5150 to 5250	Pass					
5240	20	102	5239.900	5150 to 5250	Pass				
		120	5239.940	5150 to 5250	Pass				
		138	5239.980	5150 to 5250	Pass				
	-30	120	5240.000	5150 to 5250	Pass				
	-20	120	5239.960	5150 to 5250	Pass				
	-10	120	5239.980	5150 to 5250	Pass				
	0	120	5239.920	5150 to 5250	Pass				
	10	120	5239.920	5150 to 5250	Pass				
	30	120	5240.000	5150 to 5250	Pass				
	40	120	5240.000	5150 to 5250	Pass				
50	120	5239.920	5150 to 5250	Pass					
5745	20	102	5745.000	5725 to 5850	Pass				

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			120	5744.960	5725 to 5850	Pass				
			138	5744.940	5725 to 5850	Pass				
			-30	120	5745.000	5725 to 5850	Pass			
			-20	120	5745.000	5725 to 5850	Pass			
			-10	120	5744.940	5725 to 5850	Pass			
			0	120	5745.040	5725 to 5850	Pass			
			10	120	5745.020	5725 to 5850	Pass			
			30	120	5744.980	5725 to 5850	Pass			
			40	120	5744.960	5725 to 5850	Pass			
			50	120	5744.940	5725 to 5850	Pass			
			5785	20	102	5784.980	5725 to 5850	Pass		
					120	5784.980	5725 to 5850	Pass		
					138	5784.980	5725 to 5850	Pass		
				-30	120	5784.960	5725 to 5850	Pass		
				-20	120	5785.000	5725 to 5850	Pass		
		-10		120	5784.900	5725 to 5850	Pass			
		0		120	5784.940	5725 to 5850	Pass			
		10		120	5785.000	5725 to 5850	Pass			
		30		120	5784.920	5725 to 5850	Pass			
		40		120	5784.980	5725 to 5850	Pass			
		50		120	5784.940	5725 to 5850	Pass			
		5825		20	102	5824.980	5725 to 5850	Pass		
					120	5824.920	5725 to 5850	Pass		
					138	5824.940	5725 to 5850	Pass		
				-30	120	5825.000	5725 to 5850	Pass		
			-20	120	5824.920	5725 to 5850	Pass			
			-10	120	5824.960	5725 to 5850	Pass			
			0	120	5824.980	5725 to 5850	Pass			
			10	120	5824.960	5725 to 5850	Pass			
			30	120	5824.920	5725 to 5850	Pass			
			40	120	5824.900	5725 to 5850	Pass			
			50	120	5824.940	5725 to 5850	Pass			
			802.11n (HT40)	MIMO	5190	20	102	5189.920	5150 to 5250	Pass
							120	5190.000	5150 to 5250	Pass
							138	5190.000	5150 to 5250	Pass
						-30	120	5189.960	5150 to 5250	Pass
		-20				120	5189.960	5150 to 5250	Pass	
		-10				120	5190.000	5150 to 5250	Pass	
		0				120	5190.000	5150 to 5250	Pass	
		10				120	5189.960	5150 to 5250	Pass	
		30				120	5190.000	5150 to 5250	Pass	
		40				120	5190.000	5150 to 5250	Pass	
		50				120	5190.000	5150 to 5250	Pass	
		5230				20	102	5229.960	5150 to 5250	Pass
							120	5229.960	5150 to 5250	Pass
138	5230.000						5150 to 5250	Pass		
-30	120					5230.000	5150 to 5250	Pass		
-20	120		5230.000	5150 to 5250	Pass					
-10	120		5230.000	5150 to 5250	Pass					
0	120		5230.000	5150 to 5250	Pass					
10	120		5230.000	5150 to 5250	Pass					
30	120		5229.960	5150 to 5250	Pass					
40	120		5229.960	5150 to 5250	Pass					
50	120	5230.000	5150 to 5250	Pass						
5755	20	102	5755.000	5725 to 5850	Pass					



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				120	5754.960	5725 to 5850	Pass		
				138	5754.960	5725 to 5850	Pass		
				-30	120	5755.000	5725 to 5850	Pass	
				-20	120	5755.000	5725 to 5850	Pass	
				-10	120	5755.000	5725 to 5850	Pass	
				0	120	5755.000	5725 to 5850	Pass	
				10	120	5755.000	5725 to 5850	Pass	
				30	120	5755.000	5725 to 5850	Pass	
				40	120	5754.960	5725 to 5850	Pass	
				50	120	5755.000	5725 to 5850	Pass	
				5795	20	102	5795.000	5725 to 5850	Pass
						120	5795.000	5725 to 5850	Pass
						138	5794.960	5725 to 5850	Pass
					-30	120	5794.960	5725 to 5850	Pass
					-20	120	5795.000	5725 to 5850	Pass
					-10	120	5794.920	5725 to 5850	Pass
					0	120	5795.000	5725 to 5850	Pass
					10	120	5795.000	5725 to 5850	Pass
					30	120	5794.960	5725 to 5850	Pass
					40	120	5795.000	5725 to 5850	Pass
50	120	5795.000	5725 to 5850		Pass				
802.11ac (VHT20)	MIMO	5180	20		102	5179.980	5150 to 5250	Pass	
				120	5179.940	5150 to 5250	Pass		
				138	5179.960	5150 to 5250	Pass		
			-30	120	5179.960	5150 to 5250	Pass		
			-20	120	5179.960	5150 to 5250	Pass		
			-10	120	5180.040	5150 to 5250	Pass		
			0	120	5180.000	5150 to 5250	Pass		
			10	120	5179.980	5150 to 5250	Pass		
			30	120	5180.000	5150 to 5250	Pass		
			40	120	5179.980	5150 to 5250	Pass		
		50	120	5180.020	5150 to 5250	Pass			
		5200	20	102	5199.980	5150 to 5250	Pass		
				120	5200.000	5150 to 5250	Pass		
				138	5200.000	5150 to 5250	Pass		
			-30	120	5200.000	5150 to 5250	Pass		
			-20	120	5200.040	5150 to 5250	Pass		
			-10	120	5199.960	5150 to 5250	Pass		
0	120		5200.020	5150 to 5250	Pass				
10	120		5200.020	5150 to 5250	Pass				
30	120	5199.980	5150 to 5250	Pass					
40	120	5199.960	5150 to 5250	Pass					
50	120	5199.980	5150 to 5250	Pass					
5240	20	102	5239.960	5150 to 5250	Pass				
		120	5240.000	5150 to 5250	Pass				
		138	5240.020	5150 to 5250	Pass				
	-30	120	5239.980	5150 to 5250	Pass				
	-20	120	5239.960	5150 to 5250	Pass				
	-10	120	5239.960	5150 to 5250	Pass				
	0	120	5239.960	5150 to 5250	Pass				
	10	120	5239.980	5150 to 5250	Pass				
	30	120	5239.980	5150 to 5250	Pass				
	40	120	5239.980	5150 to 5250	Pass				
50	120	5240.000	5150 to 5250	Pass					
5745	20	102	5744.960	5725 to 5850	Pass				

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802.11ac (VHT40)	MIMO	5785	120	5745.000	5725 to 5850	Pass		
			138	5744.980	5725 to 5850	Pass		
			-30	120	5744.980	5725 to 5850	Pass	
			-20	120	5744.980	5725 to 5850	Pass	
			-10	120	5745.000	5725 to 5850	Pass	
			0	120	5744.980	5725 to 5850	Pass	
			10	120	5744.960	5725 to 5850	Pass	
			30	120	5744.980	5725 to 5850	Pass	
			40	120	5744.920	5725 to 5850	Pass	
			50	120	5744.980	5725 to 5850	Pass	
			5825	20	102	5785.040	5725 to 5850	Pass
					120	5784.960	5725 to 5850	Pass
					138	5784.960	5725 to 5850	Pass
				-30	120	5784.980	5725 to 5850	Pass
				-20	120	5784.980	5725 to 5850	Pass
		-10		120	5784.980	5725 to 5850	Pass	
		0		120	5784.940	5725 to 5850	Pass	
		10		120	5784.960	5725 to 5850	Pass	
		30		120	5784.980	5725 to 5850	Pass	
		40		120	5784.960	5725 to 5850	Pass	
		50		120	5784.960	5725 to 5850	Pass	
		5190		20	102	5824.960	5725 to 5850	Pass
					120	5824.960	5725 to 5850	Pass
					138	5824.980	5725 to 5850	Pass
				-30	120	5825.000	5725 to 5850	Pass
			-20	120	5824.940	5725 to 5850	Pass	
			-10	120	5824.960	5725 to 5850	Pass	
			0	120	5824.980	5725 to 5850	Pass	
			10	120	5825.000	5725 to 5850	Pass	
			30	120	5824.960	5725 to 5850	Pass	
			40	120	5825.020	5725 to 5850	Pass	
			50	120	5824.980	5725 to 5850	Pass	
			5230	20	102	5190.000	5150 to 5250	Pass
					120	5189.960	5150 to 5250	Pass
					138	5190.000	5150 to 5250	Pass
				-30	120	5190.000	5150 to 5250	Pass
		-20		120	5189.960	5150 to 5250	Pass	
		-10		120	5190.040	5150 to 5250	Pass	
		0		120	5190.000	5150 to 5250	Pass	
		10		120	5190.000	5150 to 5250	Pass	
		30		120	5189.960	5150 to 5250	Pass	
		40		120	5190.000	5150 to 5250	Pass	
		50		120	5189.960	5150 to 5250	Pass	
		5755		20	102	5230.080	5150 to 5250	Pass
					120	5230.000	5150 to 5250	Pass
138	5230.000				5150 to 5250	Pass		
-30	120			5230.000	5150 to 5250	Pass		
-20	120		5229.960	5150 to 5250	Pass			
-10	120		5230.000	5150 to 5250	Pass			
0	120		5229.960	5150 to 5250	Pass			
10	120		5229.920	5150 to 5250	Pass			
30	120		5230.000	5150 to 5250	Pass			
40	120		5230.040	5150 to 5250	Pass			
50	120	5229.960	5150 to 5250	Pass				
5755	20	102	5755.000	5725 to 5850	Pass			

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			120	5754.960	5725 to 5850	Pass	
			138	5755.000	5725 to 5850	Pass	
			-30	120	5755.000	5725 to 5850	Pass
			-20	120	5754.960	5725 to 5850	Pass
			-10	120	5755.080	5725 to 5850	Pass
			0	120	5755.000	5725 to 5850	Pass
			10	120	5755.000	5725 to 5850	Pass
			30	120	5755.000	5725 to 5850	Pass
			40	120	5755.000	5725 to 5850	Pass
			50	120	5755.040	5725 to 5850	Pass
		5795	20	102	5795.000	5725 to 5850	Pass
				120	5795.040	5725 to 5850	Pass
				138	5794.960	5725 to 5850	Pass
			-30	120	5795.000	5725 to 5850	Pass
			-20	120	5795.000	5725 to 5850	Pass
			-10	120	5794.960	5725 to 5850	Pass
			0	120	5795.000	5725 to 5850	Pass
			10	120	5795.000	5725 to 5850	Pass
			30	120	5795.000	5725 to 5850	Pass
			40	120	5795.000	5725 to 5850	Pass
50	120	5794.960	5725 to 5850	Pass			
802.11ac (VHT80)	MIMO	5210	20	102	5210.000	5150 to 5250	Pass
				120	5210.075	5150 to 5250	Pass
				138	5210.000	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	
		5775	20	102	5775.000	5725 to 5850	Pass
				120	5775.000	5725 to 5850	Pass
				138	5775.000	5725 to 5850	Pass
			-30	120	5775.000	5725 to 5850	Pass
			-20	120	5775.000	5725 to 5850	Pass
			-10	120	5775.000	5725 to 5850	Pass
			0	120	5775.000	5725 to 5850	Pass
			10	120	5775.000	5725 to 5850	Pass
			30	120	5775.000	5725 to 5850	Pass
40	120		5775.000	5725 to 5850	Pass		
50	120	5775.075	5725 to 5850	Pass			

5.2 Ant2

5.2.1 Test Result

Ant2							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	102	5179.980	5150 to 5250	Pass
				120	5179.940	5150 to 5250	Pass



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			138	5180.000	5150 to 5250	Pass	
		-30	120	5179.980	5150 to 5250	Pass	
		-20	120	5180.000	5150 to 5250	Pass	
		-10	120	5179.960	5150 to 5250	Pass	
		0	120	5180.000	5150 to 5250	Pass	
		10	120	5179.980	5150 to 5250	Pass	
		30	120	5179.960	5150 to 5250	Pass	
		40	120	5180.000	5150 to 5250	Pass	
		50	120	5180.000	5150 to 5250	Pass	
	5200	20	102	5199.980	5150 to 5250	Pass	
				120	5200.020	5150 to 5250	Pass
				138	5199.980	5150 to 5250	Pass
			-30	120	5199.980	5150 to 5250	Pass
			-20	120	5200.020	5150 to 5250	Pass
			-10	120	5200.000	5150 to 5250	Pass
			0	120	5199.980	5150 to 5250	Pass
			10	120	5199.960	5150 to 5250	Pass
			30	120	5199.940	5150 to 5250	Pass
			40	120	5200.020	5150 to 5250	Pass
			50	120	5199.940	5150 to 5250	Pass
		5240	20	102	5239.960	5150 to 5250	Pass
					120	5239.980	5150 to 5250
				138	5239.980	5150 to 5250	Pass
			-30	120	5239.980	5150 to 5250	Pass
			-20	120	5239.980	5150 to 5250	Pass
			-10	120	5240.000	5150 to 5250	Pass
			0	120	5240.000	5150 to 5250	Pass
			10	120	5239.960	5150 to 5250	Pass
			30	120	5239.960	5150 to 5250	Pass
			40	120	5239.960	5150 to 5250	Pass
			50	120	5239.980	5150 to 5250	Pass
	5745		20	102	5745.000	5725 to 5850	Pass
					120	5745.000	5725 to 5850
				138	5744.980	5725 to 5850	Pass
			-30	120	5744.960	5725 to 5850	Pass
			-20	120	5745.000	5725 to 5850	Pass
			-10	120	5744.980	5725 to 5850	Pass
			0	120	5744.960	5725 to 5850	Pass
			10	120	5744.980	5725 to 5850	Pass
			30	120	5744.960	5725 to 5850	Pass
			40	120	5744.960	5725 to 5850	Pass
			50	120	5744.980	5725 to 5850	Pass
		5785	20	102	5784.980	5725 to 5850	Pass
					120	5784.940	5725 to 5850
				138	5784.980	5725 to 5850	Pass
			-30	120	5784.980	5725 to 5850	Pass
			-20	120	5785.000	5725 to 5850	Pass
			-10	120	5784.960	5725 to 5850	Pass
			0	120	5784.960	5725 to 5850	Pass
			10	120	5785.000	5725 to 5850	Pass
			30	120	5784.980	5725 to 5850	Pass
			40	120	5785.000	5725 to 5850	Pass
			50	120	5784.960	5725 to 5850	Pass
	5825		20	102	5824.960	5725 to 5850	Pass
					120	5825.000	5725 to 5850

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				138	5824.980	5725 to 5850	Pass	
			-30	120	5824.960	5725 to 5850	Pass	
			-20	120	5824.960	5725 to 5850	Pass	
			-10	120	5824.940	5725 to 5850	Pass	
			0	120	5824.980	5725 to 5850	Pass	
			10	120	5825.000	5725 to 5850	Pass	
			30	120	5825.000	5725 to 5850	Pass	
			40	120	5825.020	5725 to 5850	Pass	
			50	120	5824.960	5725 to 5850	Pass	
802.11n (HT20)	MIMO	5180	20	102	5180.000	5150 to 5250	Pass	
				120	5180.000	5150 to 5250	Pass	
				138	5180.000	5150 to 5250	Pass	
			-30	120	5179.980	5150 to 5250	Pass	
				-20	120	5179.980	5150 to 5250	Pass
					120	5179.960	5150 to 5250	Pass
			0	120	5179.980	5150 to 5250	Pass	
				120	5179.980	5150 to 5250	Pass	
			10	120	5179.980	5150 to 5250	Pass	
				120	5179.980	5150 to 5250	Pass	
			30	120	5179.980	5150 to 5250	Pass	
				120	5179.980	5150 to 5250	Pass	
			40	120	5180.000	5150 to 5250	Pass	
				120	5179.980	5150 to 5250	Pass	
			50	120	5179.980	5150 to 5250	Pass	
		120		5199.980	5150 to 5250	Pass		
		5200	20	102	5199.980	5150 to 5250	Pass	
				120	5199.980	5150 to 5250	Pass	
				138	5200.000	5150 to 5250	Pass	
			-30	120	5200.000	5150 to 5250	Pass	
				-20	120	5199.960	5150 to 5250	Pass
					120	5199.960	5150 to 5250	Pass
			0	120	5200.000	5150 to 5250	Pass	
				120	5199.980	5150 to 5250	Pass	
			10	120	5199.980	5150 to 5250	Pass	
				120	5199.980	5150 to 5250	Pass	
			30	120	5199.980	5150 to 5250	Pass	
				120	5199.980	5150 to 5250	Pass	
			40	120	5199.980	5150 to 5250	Pass	
				120	5199.980	5150 to 5250	Pass	
			50	120	5199.980	5150 to 5250	Pass	
		120		5239.980	5150 to 5250	Pass		
		5240	20	102	5239.980	5150 to 5250	Pass	
				120	5239.980	5150 to 5250	Pass	
				138	5239.980	5150 to 5250	Pass	
			-30	120	5239.980	5150 to 5250	Pass	
				-20	120	5240.000	5150 to 5250	Pass
					120	5240.000	5150 to 5250	Pass
			0	120	5239.980	5150 to 5250	Pass	
				120	5239.980	5150 to 5250	Pass	
			10	120	5239.980	5150 to 5250	Pass	
				120	5239.960	5150 to 5250	Pass	
			30	120	5239.960	5150 to 5250	Pass	
				120	5240.000	5150 to 5250	Pass	
			40	120	5239.980	5150 to 5250	Pass	
120	5239.980			5150 to 5250	Pass			
50	120		5239.980	5150 to 5250	Pass			
	120	5745.020	5725 to 5850	Pass				
5745	20	120	5744.980	5725 to 5850	Pass			
		138	5745.000	5725 to 5850	Pass			
		120	5744.960	5725 to 5850	Pass			
	-30	120	5744.960	5725 to 5850	Pass			
		-20	120	5744.980	5725 to 5850	Pass		
			120	5744.980	5725 to 5850	Pass		
	-10	120	5744.980	5725 to 5850	Pass			
		120	5744.960	5725 to 5850	Pass			
	0	120	5744.960	5725 to 5850	Pass			
		120	5744.980	5725 to 5850	Pass			
	10	120	5744.980	5725 to 5850	Pass			
		120	5744.980	5725 to 5850	Pass			
	30	120	5744.980	5725 to 5850	Pass			
		120	5744.980	5725 to 5850	Pass			
	40	120	5744.980	5725 to 5850	Pass			
120		5744.980	5725 to 5850	Pass				
50	120	5744.960	5725 to 5850	Pass				
	120	5744.960	5725 to 5850	Pass				
5785	20	102	5784.980	5725 to 5850	Pass			
		120	5784.980	5725 to 5850	Pass			
		120	5784.980	5725 to 5850	Pass			

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		5825	138	5784.960	5725 to 5850	Pass		
			-30	120	5784.940	5725 to 5850	Pass	
			-20	120	5784.960	5725 to 5850	Pass	
			-10	120	5784.980	5725 to 5850	Pass	
			0	120	5784.960	5725 to 5850	Pass	
			10	120	5785.000	5725 to 5850	Pass	
			30	120	5784.980	5725 to 5850	Pass	
			40	120	5785.000	5725 to 5850	Pass	
			50	120	5784.960	5725 to 5850	Pass	
			20	102	5824.980	5725 to 5850	Pass	
				120	5824.960	5725 to 5850	Pass	
				138	5824.960	5725 to 5850	Pass	
				-30	120	5824.940	5725 to 5850	Pass
				-20	120	5824.980	5725 to 5850	Pass
		-10		120	5824.960	5725 to 5850	Pass	
		0		120	5824.960	5725 to 5850	Pass	
		10	120	5824.980	5725 to 5850	Pass		
		30	120	5825.000	5725 to 5850	Pass		
		40	120	5824.980	5725 to 5850	Pass		
		50	120	5824.980	5725 to 5850	Pass		
		802.11n (HT40)	MIMO	5190	102	5190.000	5150 to 5250	Pass
120	5190.000				5150 to 5250	Pass		
138	5189.960				5150 to 5250	Pass		
-30	120				5189.960	5150 to 5250	Pass	
-20	120				5189.960	5150 to 5250	Pass	
-10	120				5190.000	5150 to 5250	Pass	
0	120				5190.000	5150 to 5250	Pass	
10	120				5189.960	5150 to 5250	Pass	
30	120				5190.000	5150 to 5250	Pass	
40	120				5190.000	5150 to 5250	Pass	
50	120				5190.000	5150 to 5250	Pass	
20	102				5230.000	5150 to 5250	Pass	
	120				5229.960	5150 to 5250	Pass	
	138				5230.000	5150 to 5250	Pass	
	-30			120	5230.000	5150 to 5250	Pass	
	-20			120	5230.000	5150 to 5250	Pass	
	-10			120	5230.000	5150 to 5250	Pass	
	0			120	5230.000	5150 to 5250	Pass	
10	120			5229.960	5150 to 5250	Pass		
30	120			5229.960	5150 to 5250	Pass		
40	120			5229.960	5150 to 5250	Pass		
50	120	5230.000	5150 to 5250	Pass				
5755	20	102	5755.000	5725 to 5850	Pass			
		120	5755.040	5725 to 5850	Pass			
		138	5755.000	5725 to 5850	Pass			
	-30	120	5754.960	5725 to 5850	Pass			
	-20	120	5754.920	5725 to 5850	Pass			
	-10	120	5755.000	5725 to 5850	Pass			
	0	120	5754.960	5725 to 5850	Pass			
	10	120	5755.000	5725 to 5850	Pass			
	30	120	5755.000	5725 to 5850	Pass			
	40	120	5754.960	5725 to 5850	Pass			
50	120	5755.000	5725 to 5850	Pass				
5795	20	102	5794.920	5725 to 5850	Pass			
		120	5795.000	5725 to 5850	Pass			

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				138	5795.000	5725 to 5850	Pass			
			-30	120	5795.000	5725 to 5850	Pass			
			-20	120	5795.000	5725 to 5850	Pass			
			-10	120	5794.960	5725 to 5850	Pass			
			0	120	5795.000	5725 to 5850	Pass			
			10	120	5795.000	5725 to 5850	Pass			
			30	120	5795.040	5725 to 5850	Pass			
			40	120	5795.000	5725 to 5850	Pass			
			50	120	5795.000	5725 to 5850	Pass			
802.11ac (VHT20)	MIMO	5180	20	102	5180.000	5150 to 5250	Pass			
				120	5179.940	5150 to 5250	Pass			
				138	5179.980	5150 to 5250	Pass			
			5200	-30	120	5180.000	5150 to 5250	Pass		
					-20	120	5179.980	5150 to 5250	Pass	
					-10	120	5179.980	5150 to 5250	Pass	
				5240	0	120	5179.980	5150 to 5250	Pass	
						10	120	5180.000	5150 to 5250	Pass
						30	120	5179.980	5150 to 5250	Pass
		5240			40	120	5179.960	5150 to 5250	Pass	
						50	120	5180.000	5150 to 5250	Pass
						20	102	5199.960	5150 to 5250	Pass
			5240		20	120	5199.900	5150 to 5250	Pass	
						138	5200.000	5150 to 5250	Pass	
						-30	120	5199.980	5150 to 5250	Pass
				5240	-20	120	5199.960	5150 to 5250	Pass	
						-10	120	5199.980	5150 to 5250	Pass
						0	120	5200.000	5150 to 5250	Pass
		5240			10	120	5199.980	5150 to 5250	Pass	
						30	120	5199.980	5150 to 5250	Pass
						40	120	5199.960	5150 to 5250	Pass
			5240		50	120	5199.980	5150 to 5250	Pass	
						20	102	5240.000	5150 to 5250	Pass
						120	5239.980	5150 to 5250	Pass	
				5240	-30	138	5239.920	5150 to 5250	Pass	
						-30	120	5239.940	5150 to 5250	Pass
						-20	120	5240.000	5150 to 5250	Pass
		5240			-10	120	5239.960	5150 to 5250	Pass	
						0	120	5239.980	5150 to 5250	Pass
						10	120	5239.980	5150 to 5250	Pass
			5240		30	120	5239.980	5150 to 5250	Pass	
						40	120	5239.980	5150 to 5250	Pass
						50	120	5240.000	5150 to 5250	Pass
				5745	20	102	5744.980	5725 to 5850	Pass	
						120	5744.960	5725 to 5850	Pass	
						138	5744.980	5725 to 5850	Pass	
		5745			-30	120	5744.980	5725 to 5850	Pass	
						-20	120	5744.940	5725 to 5850	Pass
						-10	120	5744.980	5725 to 5850	Pass
			5745		0	120	5744.940	5725 to 5850	Pass	
						10	120	5744.960	5725 to 5850	Pass
						30	120	5744.960	5725 to 5850	Pass
				5745	40	120	5745.000	5725 to 5850	Pass	
						50	120	5745.000	5725 to 5850	Pass
						20	102	5784.980	5725 to 5850	Pass
5785	20	120			5785.000	5725 to 5850	Pass			

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			138	5784.980	5725 to 5850	Pass		
			-30	120	5784.980	5725 to 5850	Pass	
			-20	120	5784.960	5725 to 5850	Pass	
			-10	120	5784.980	5725 to 5850	Pass	
			0	120	5784.940	5725 to 5850	Pass	
			10	120	5784.960	5725 to 5850	Pass	
			30	120	5784.960	5725 to 5850	Pass	
			40	120	5784.980	5725 to 5850	Pass	
			50	120	5784.980	5725 to 5850	Pass	
			5825	20	102	5824.960	5725 to 5850	Pass
					120	5824.980	5725 to 5850	Pass
					138	5824.920	5725 to 5850	Pass
				-30	120	5824.980	5725 to 5850	Pass
				-20	120	5824.960	5725 to 5850	Pass
		-10		120	5824.980	5725 to 5850	Pass	
		0		120	5824.980	5725 to 5850	Pass	
		10	120	5824.980	5725 to 5850	Pass		
		30	120	5824.980	5725 to 5850	Pass		
		40	120	5825.000	5725 to 5850	Pass		
		50	120	5824.980	5725 to 5850	Pass		
		802.11ac (VHT40)	MIMO	5190	20	102	5190.000	5150 to 5250
120	5190.000					5150 to 5250	Pass	
138	5190.040					5150 to 5250	Pass	
-30	120				5190.080	5150 to 5250	Pass	
-20	120				5190.160	5150 to 5250	Pass	
-10	120				5189.960	5150 to 5250	Pass	
0	120				5190.000	5150 to 5250	Pass	
10	120				5190.040	5150 to 5250	Pass	
30	120				5190.000	5150 to 5250	Pass	
40	120				5190.000	5150 to 5250	Pass	
50	120				5190.000	5150 to 5250	Pass	
5230	20				102	5230.000	5150 to 5250	Pass
					120	5230.000	5150 to 5250	Pass
					138	5229.960	5150 to 5250	Pass
	-30			120	5230.000	5150 to 5250	Pass	
	-20			120	5230.040	5150 to 5250	Pass	
	-10			120	5229.960	5150 to 5250	Pass	
	0			120	5230.000	5150 to 5250	Pass	
	10			120	5230.000	5150 to 5250	Pass	
	30			120	5230.000	5150 to 5250	Pass	
	40			120	5230.040	5150 to 5250	Pass	
	50			120	5230.040	5150 to 5250	Pass	
5755	20			102	5754.960	5725 to 5850	Pass	
				120	5754.920	5725 to 5850	Pass	
				138	5755.080	5725 to 5850	Pass	
	-30			120	5755.040	5725 to 5850	Pass	
	-20			120	5755.000	5725 to 5850	Pass	
	-10			120	5754.960	5725 to 5850	Pass	
	0			120	5754.960	5725 to 5850	Pass	
	10			120	5755.000	5725 to 5850	Pass	
	30			120	5755.040	5725 to 5850	Pass	
	40			120	5754.960	5725 to 5850	Pass	
	50			120	5755.040	5725 to 5850	Pass	
5795	20	102	5795.000	5725 to 5850	Pass			
		120	5795.000	5725 to 5850	Pass			



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