

## 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	1.37	1.40	/	<=17.00	Pass
		5200	1.54	1.62	/	<=17.00	Pass
		5240	1.30	2.06	/	<=17.00	Pass
802.11n (HT20)	MIMO	5180	0.67	1.10	3.76	<=17.00	Pass
		5200	0.95	1.27	4.05	<=17.00	Pass
		5240	0.92	1.81	4.31	<=17.00	Pass
802.11n (HT40)	MIMO	5190	-0.26	-1.78	1.98	<=17.00	Pass
		5230	-0.38	-1.01	2.16	<=17.00	Pass
802.11ac (VHT20)	MIMO	5180	1.27	0.50	3.77	<=17.00	Pass
		5200	1.41	0.80	4.09	<=17.00	Pass
		5240	1.30	1.37	4.35	<=17.00	Pass
802.11ac (VHT40)	MIMO	5190	-1.66	-3.28	0.53	<=17.00	Pass
		5230	-1.73	-2.92	0.63	<=17.00	Pass
802.11ac (VHT80)	MIMO	5210	-6.44	-6.11	-3.29	<=17.00	Pass

Note1: Antenna Gain: Ant1: 1.97dBi; Ant2: 1.89dBi;  
Note2: Directional Gain: 4.94dBi.

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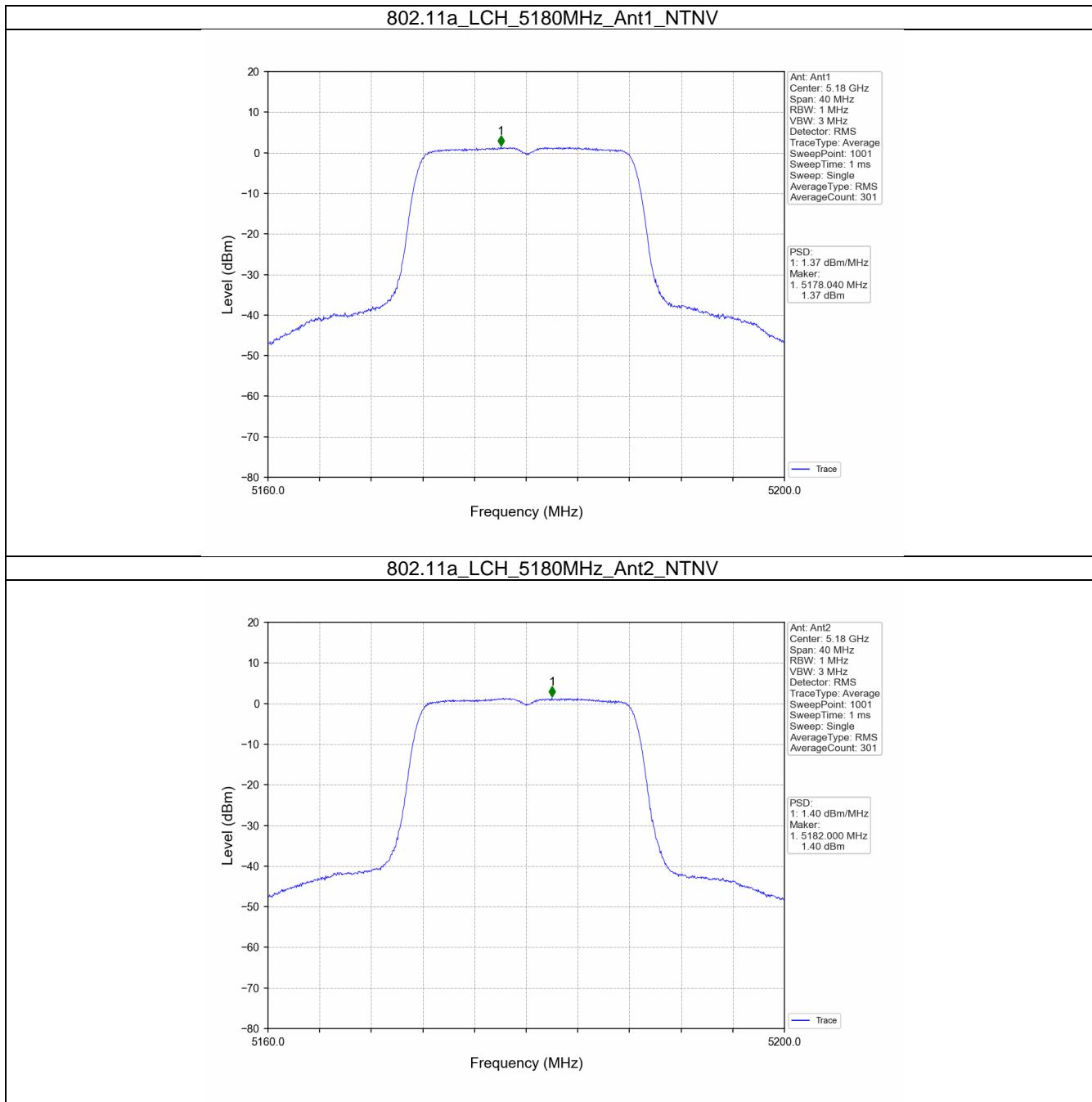
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## 4.1.2 Test Graph



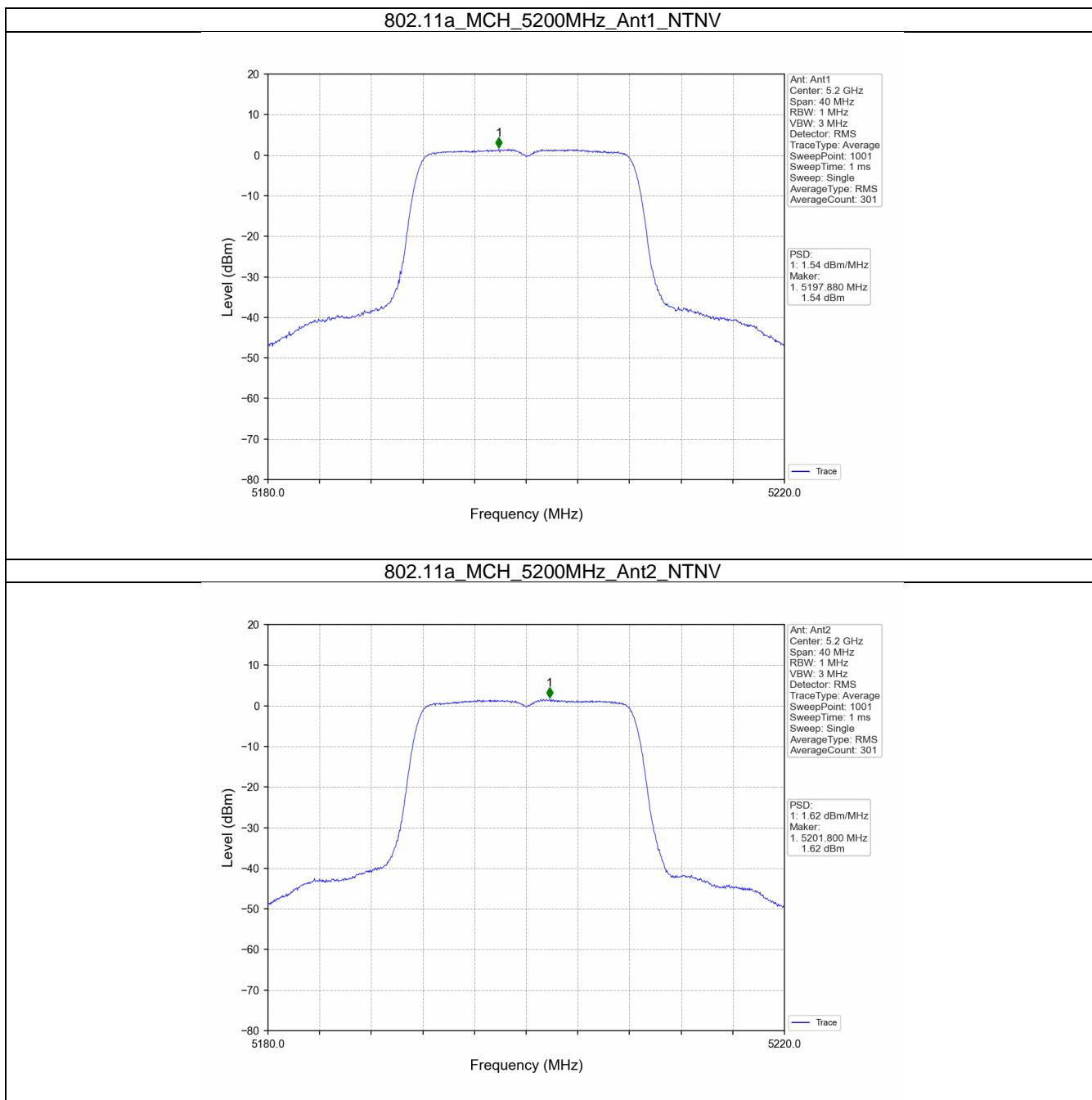
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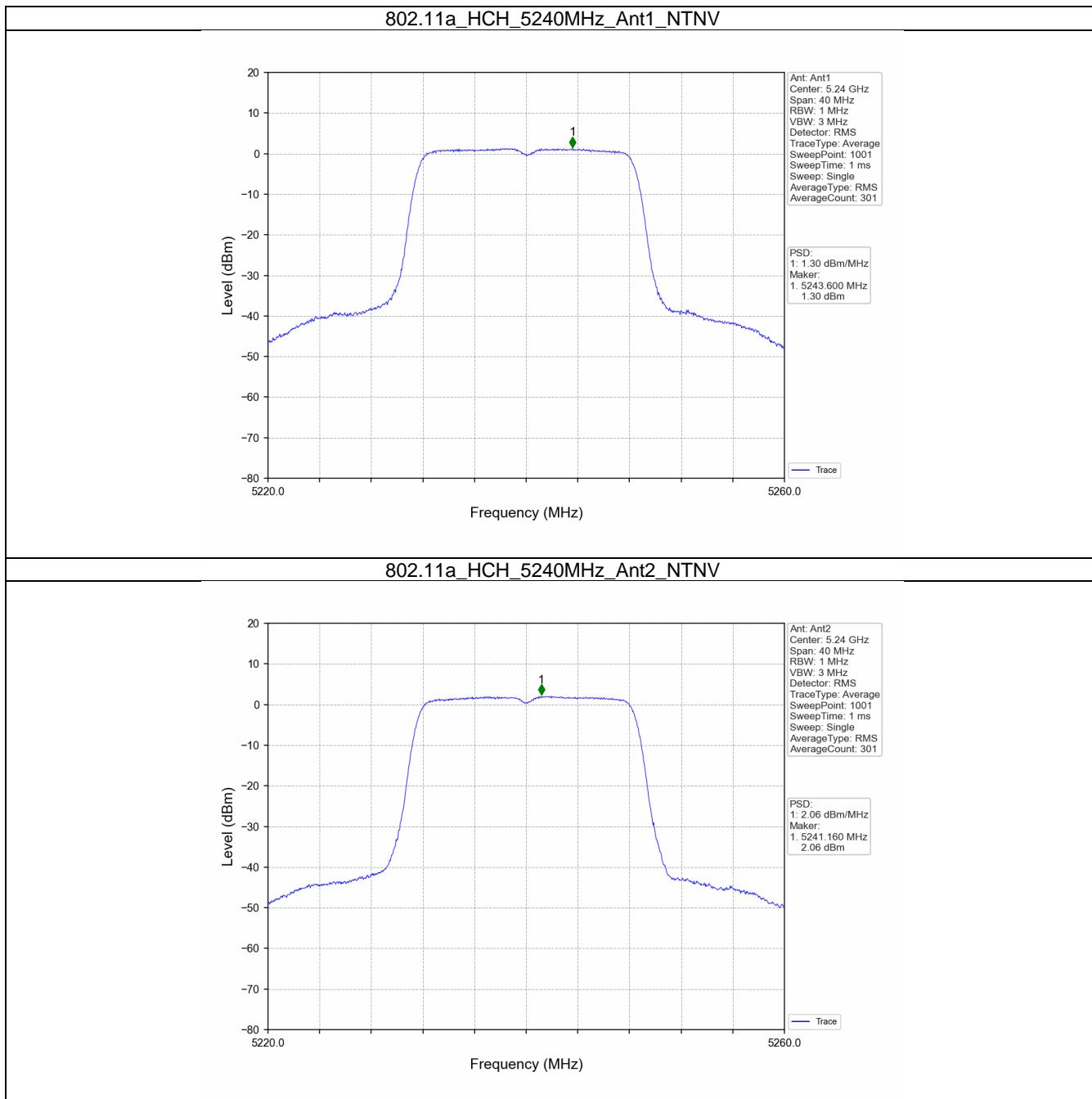
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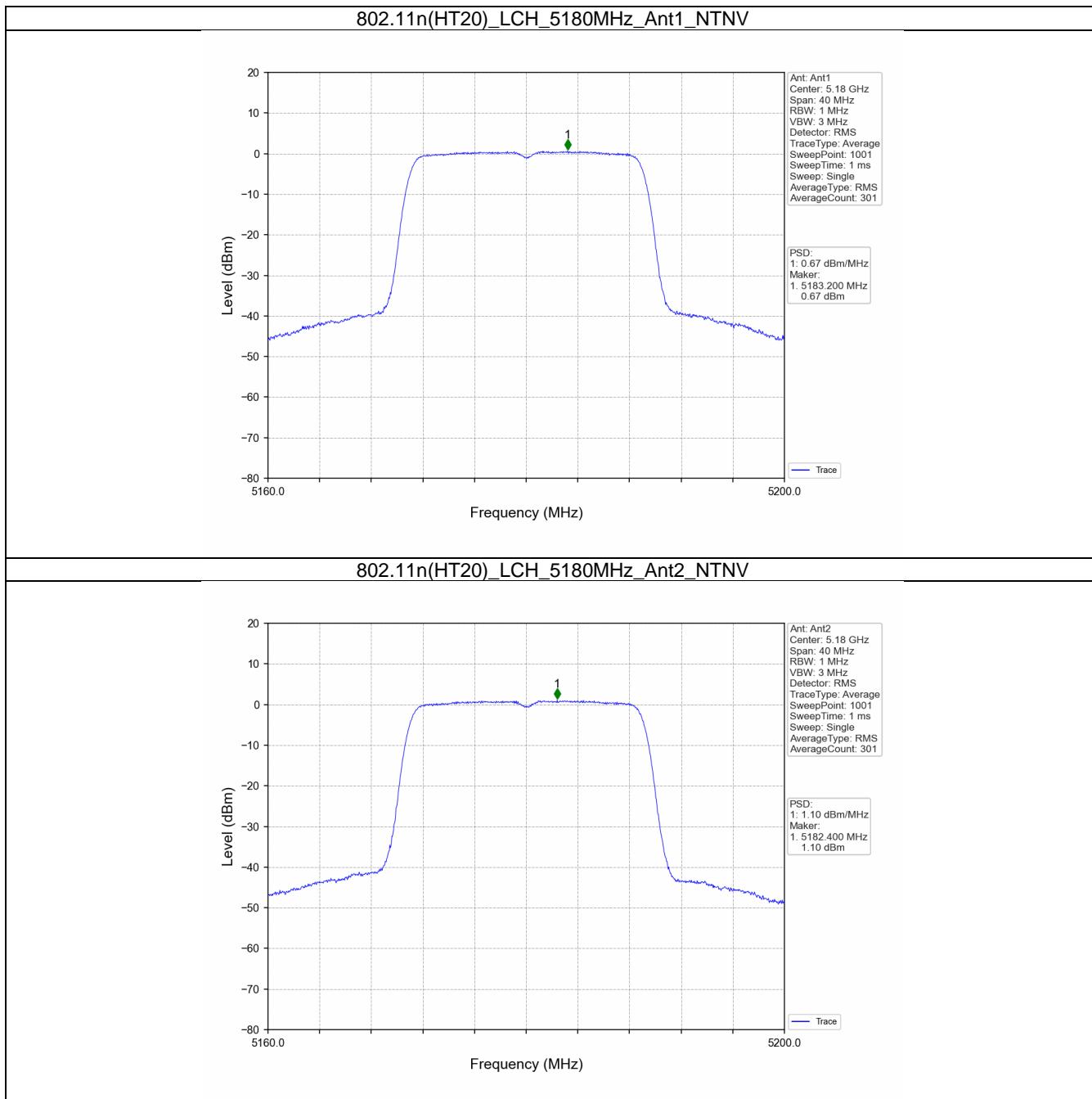




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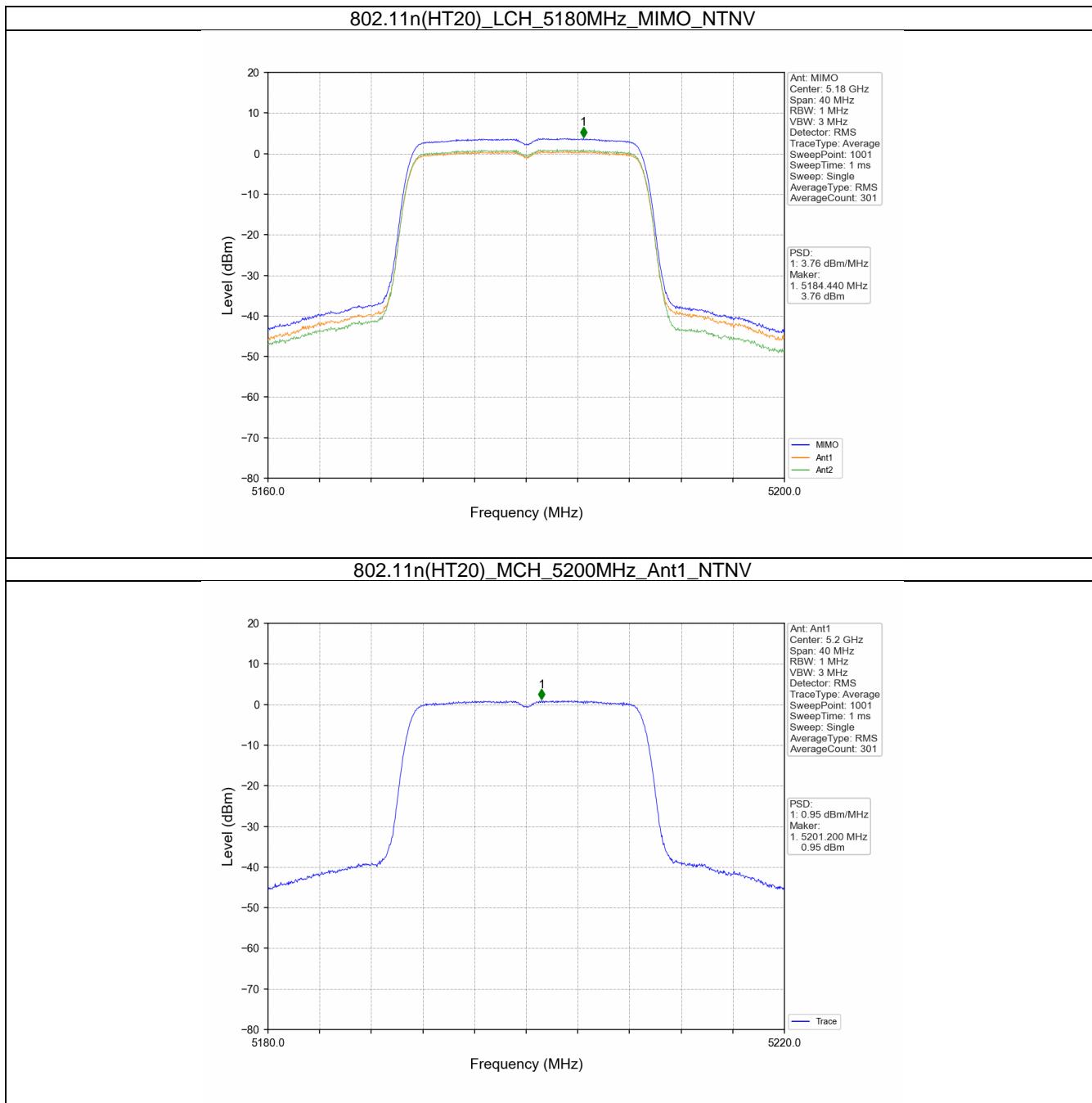




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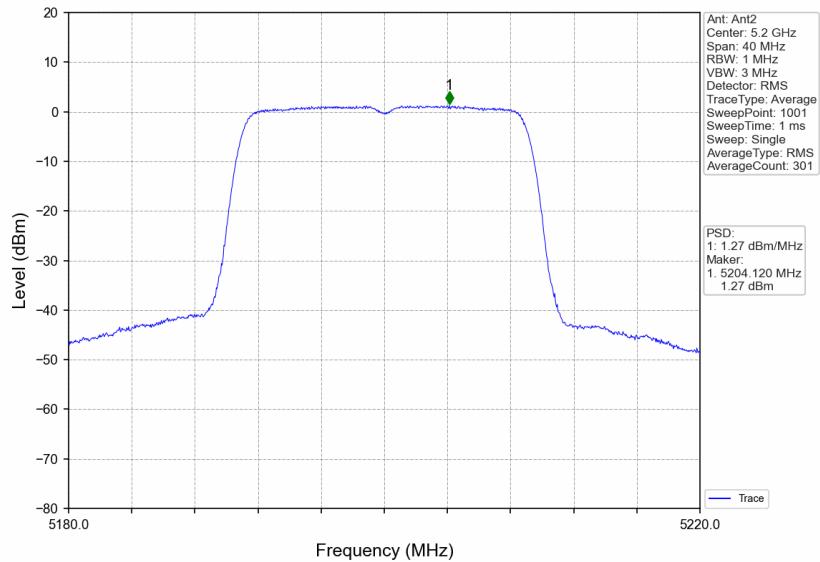
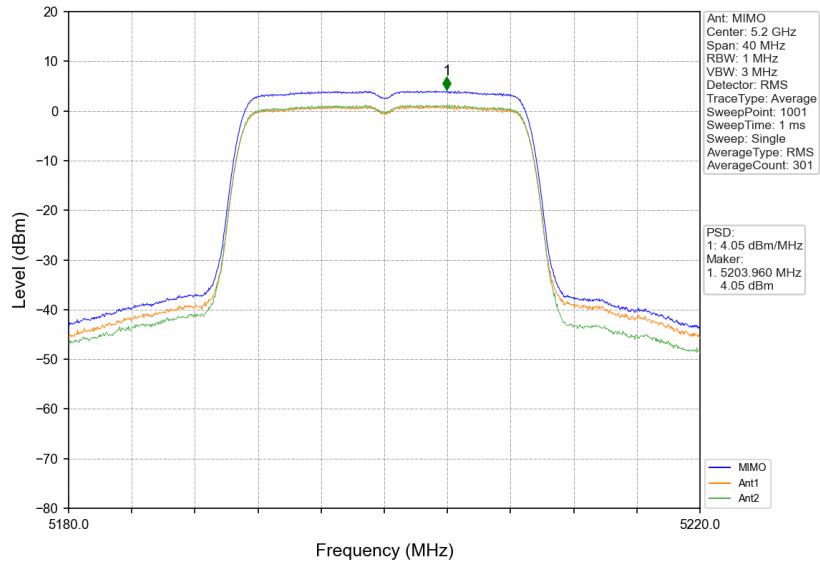
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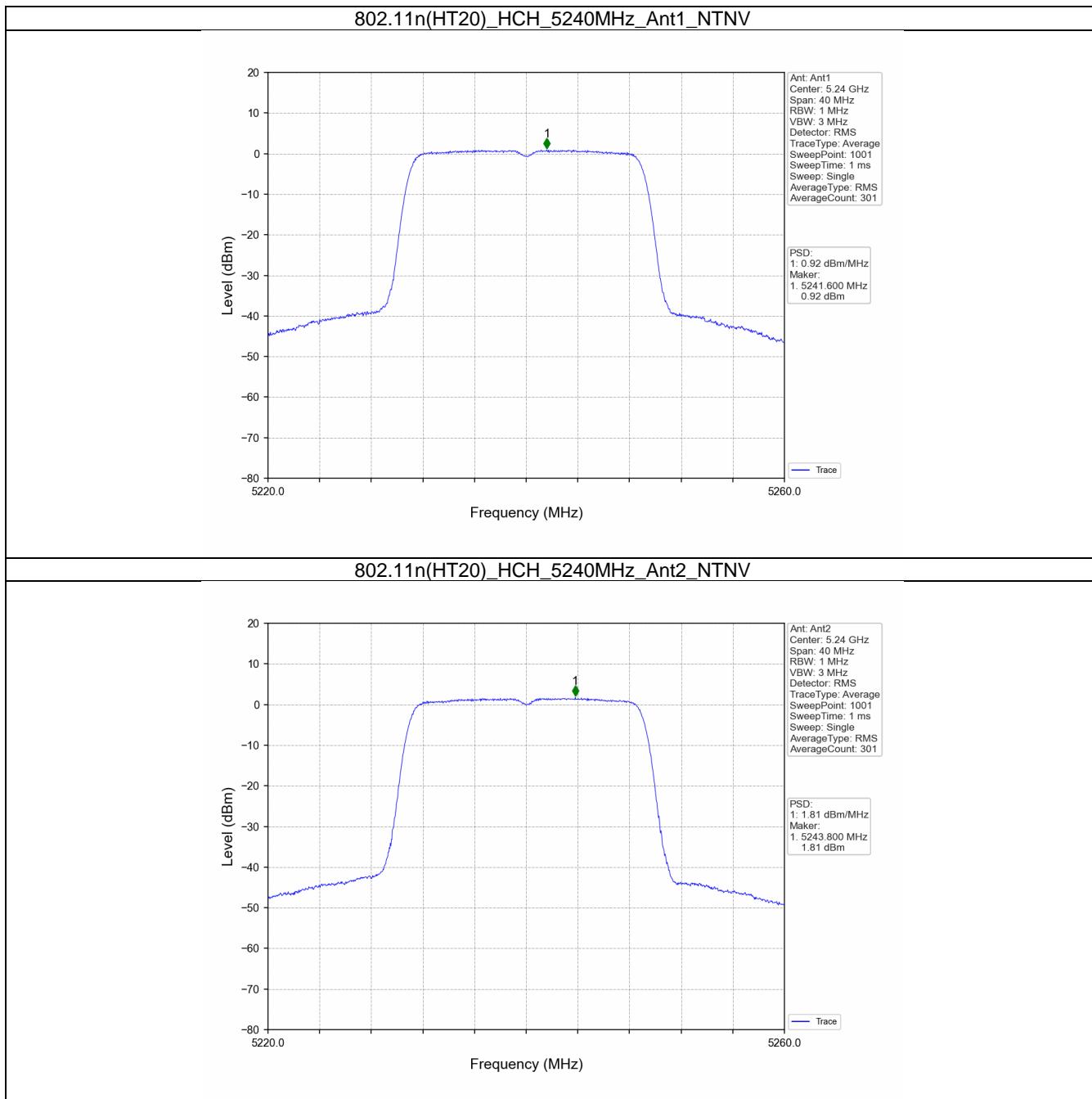
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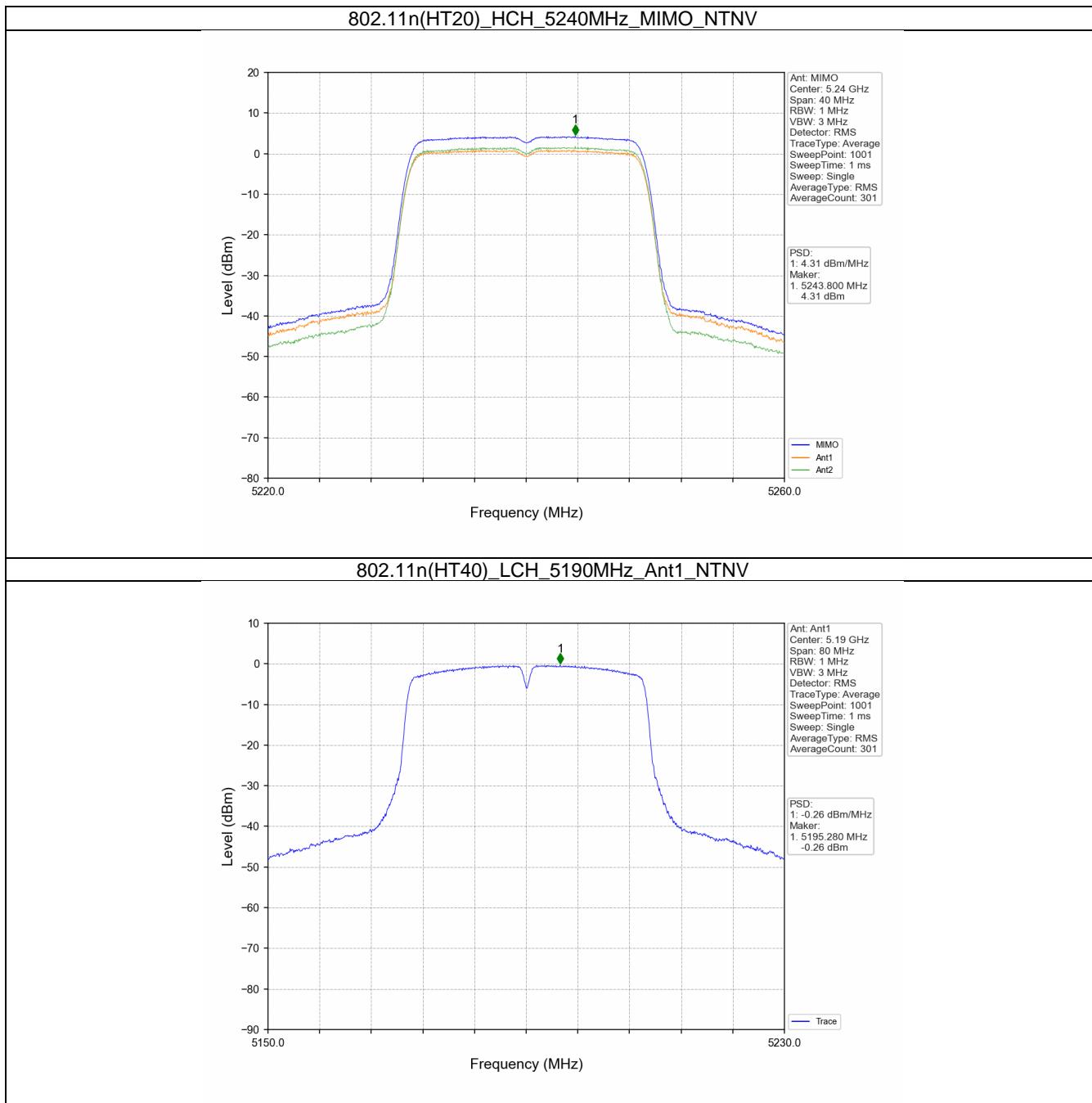
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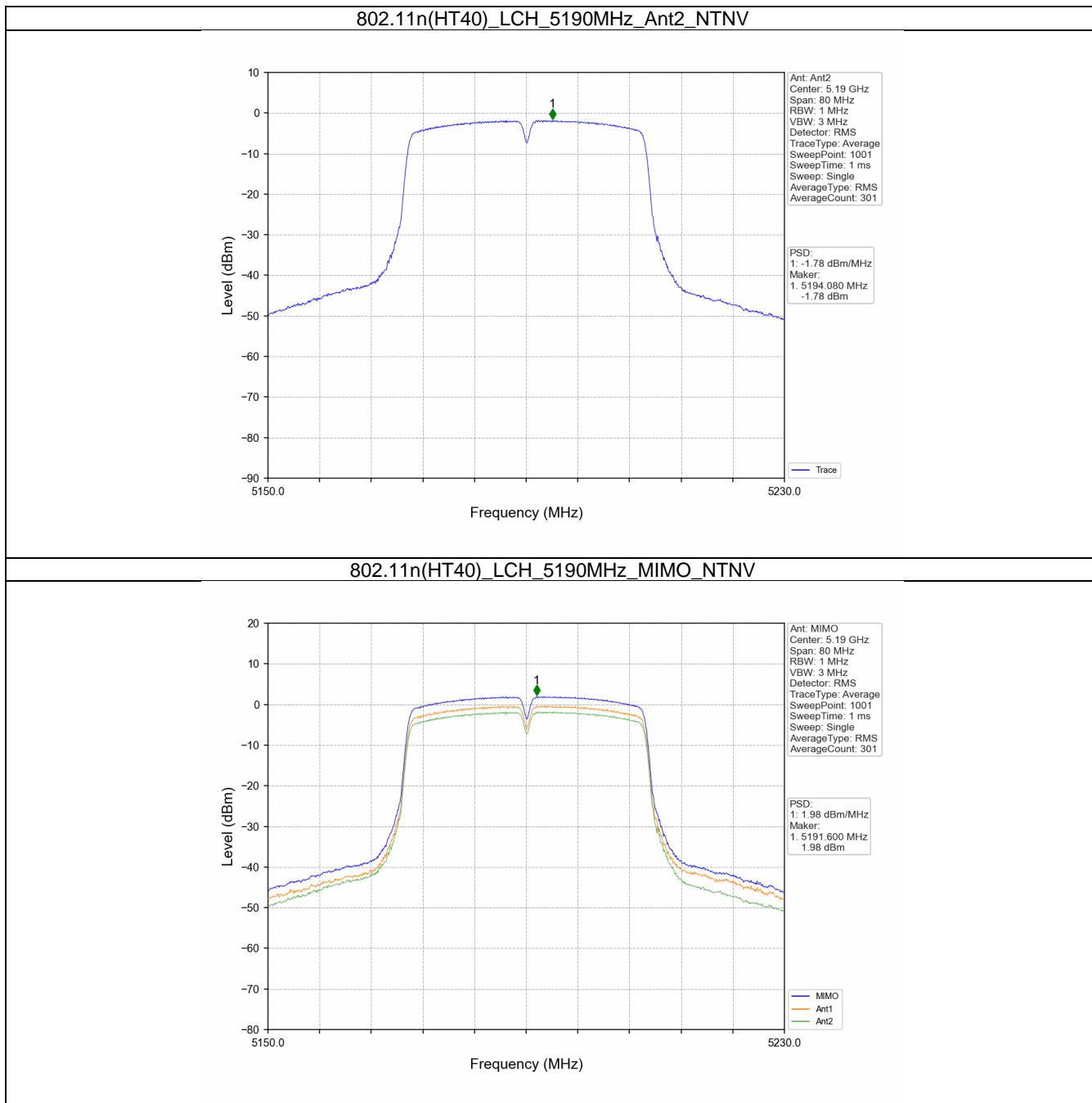




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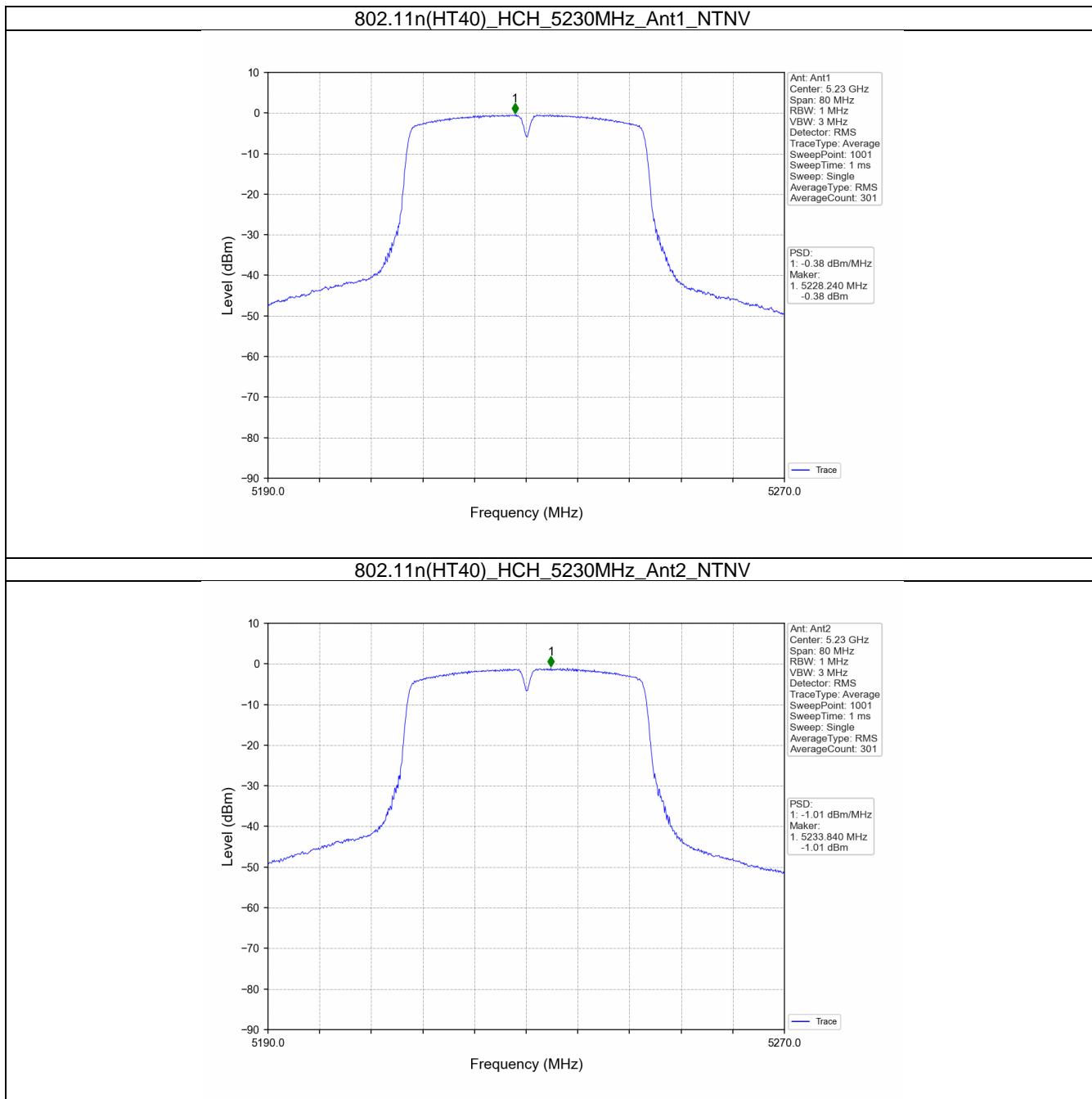
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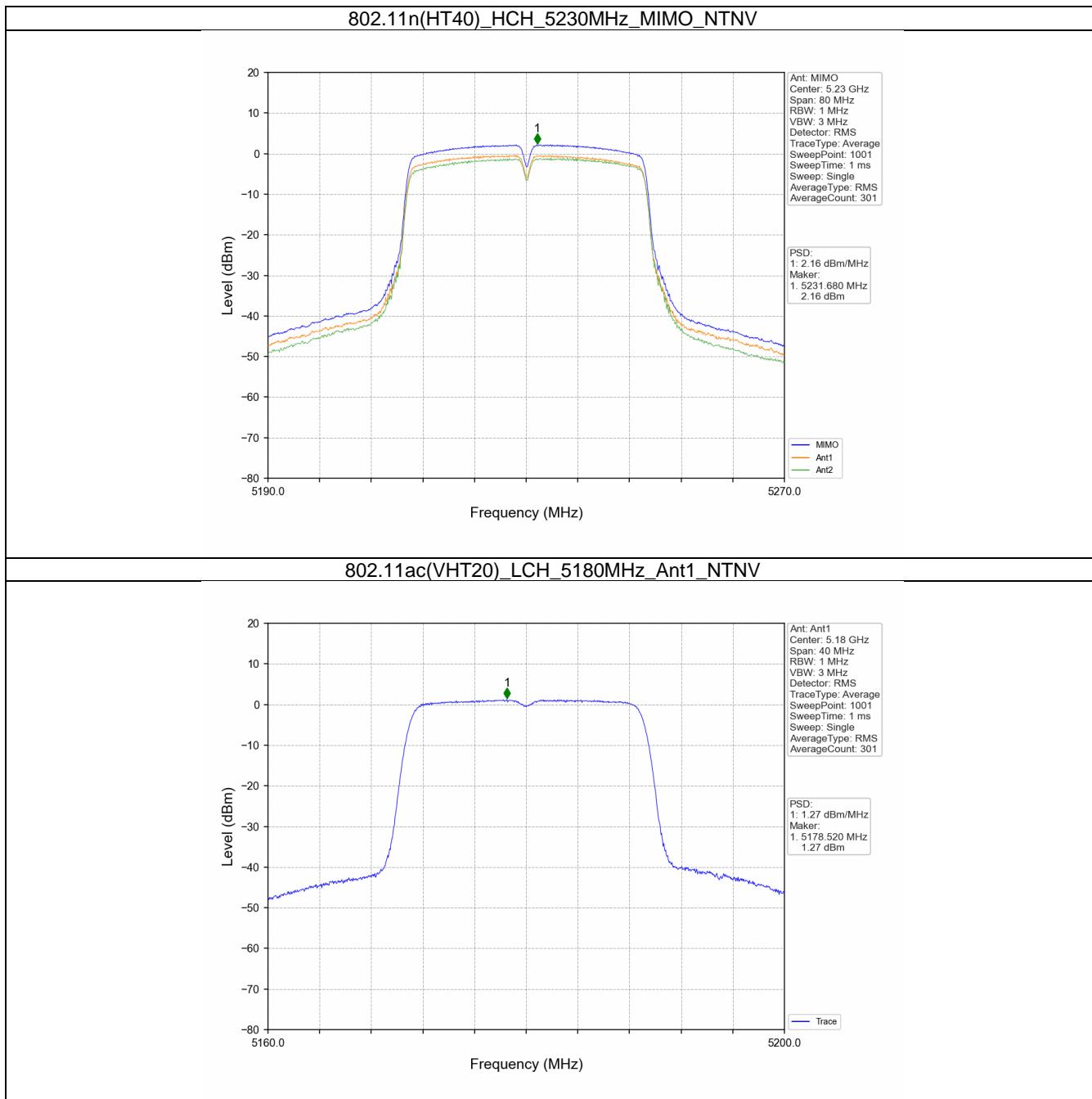
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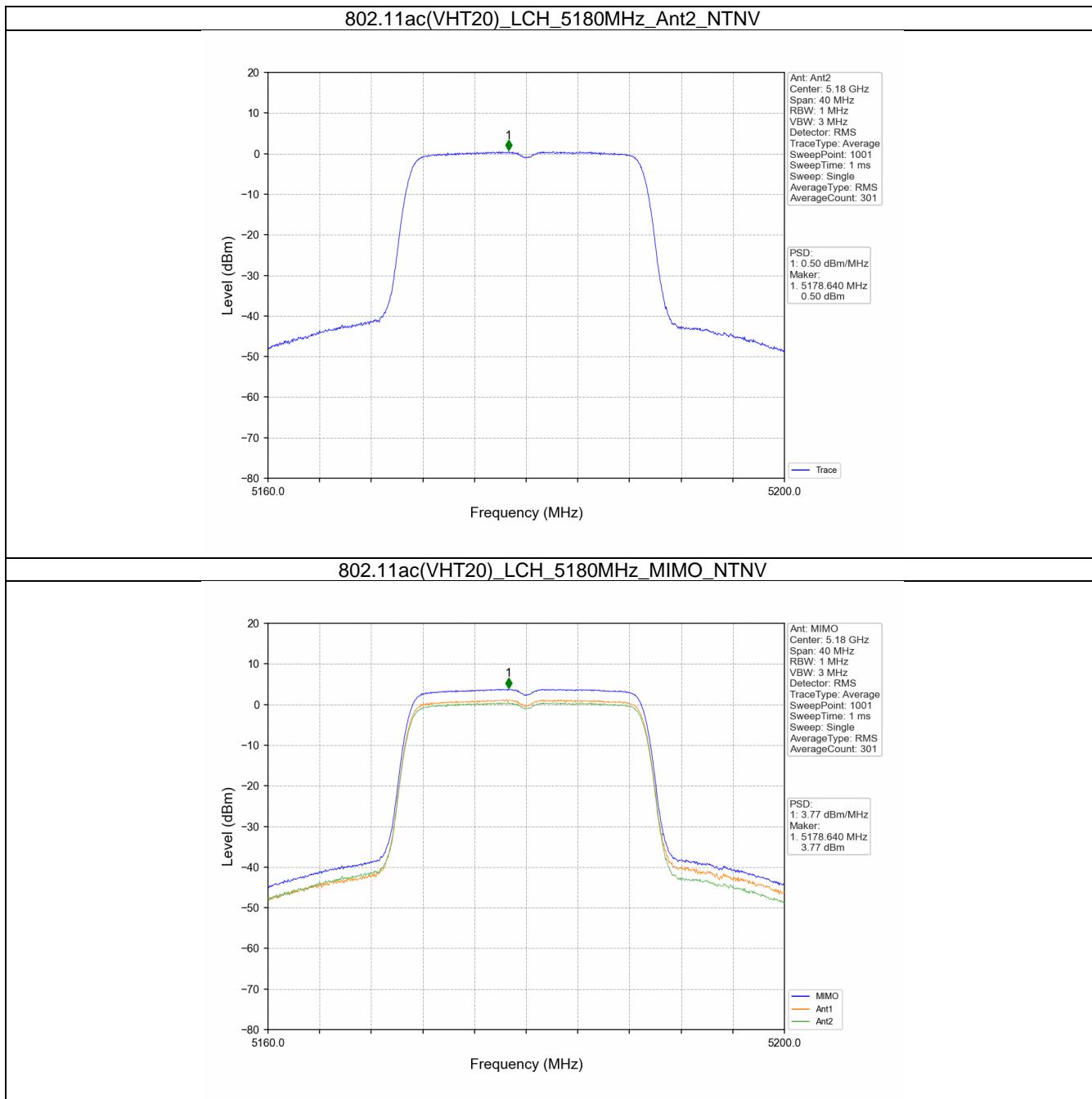
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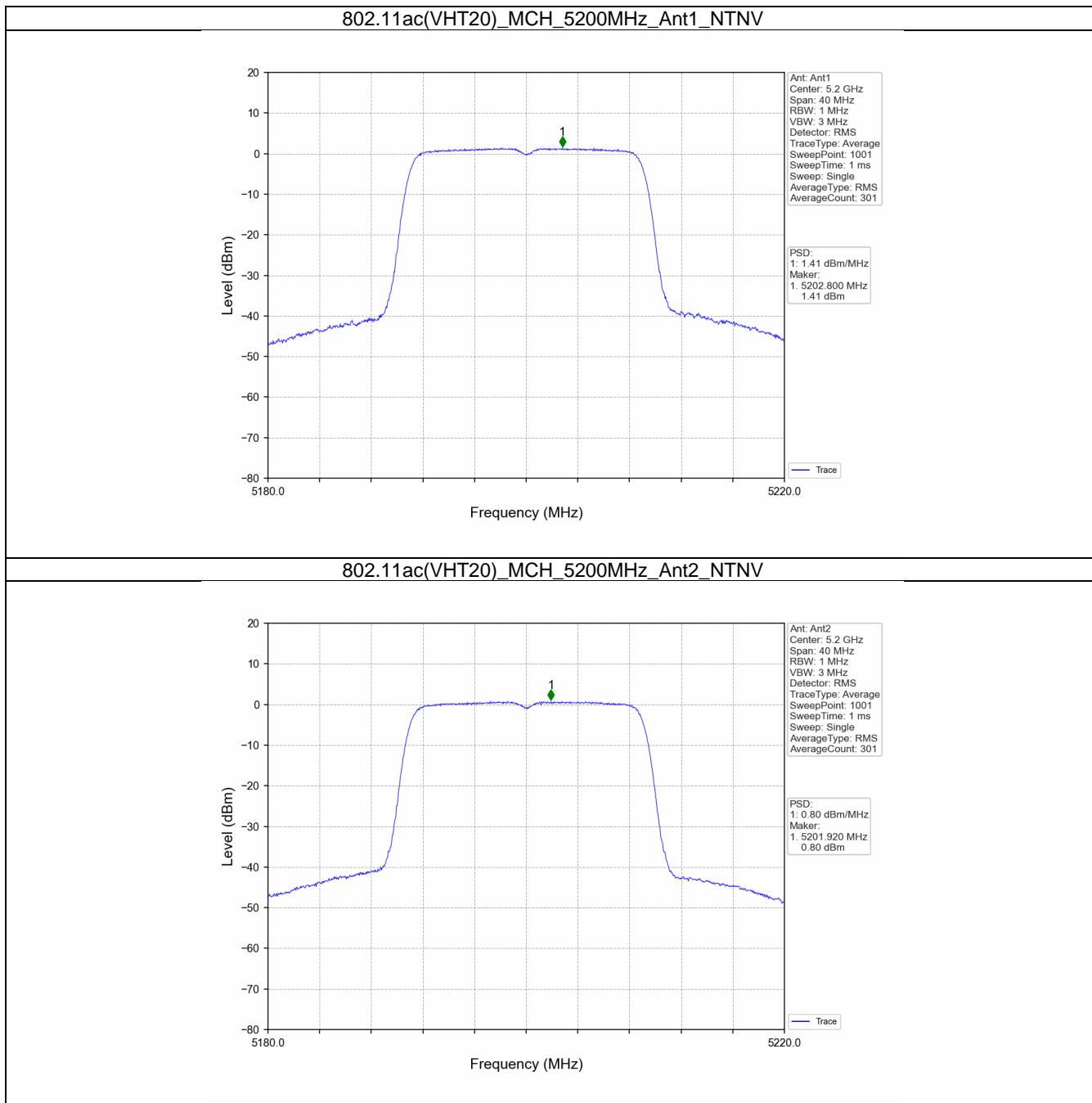




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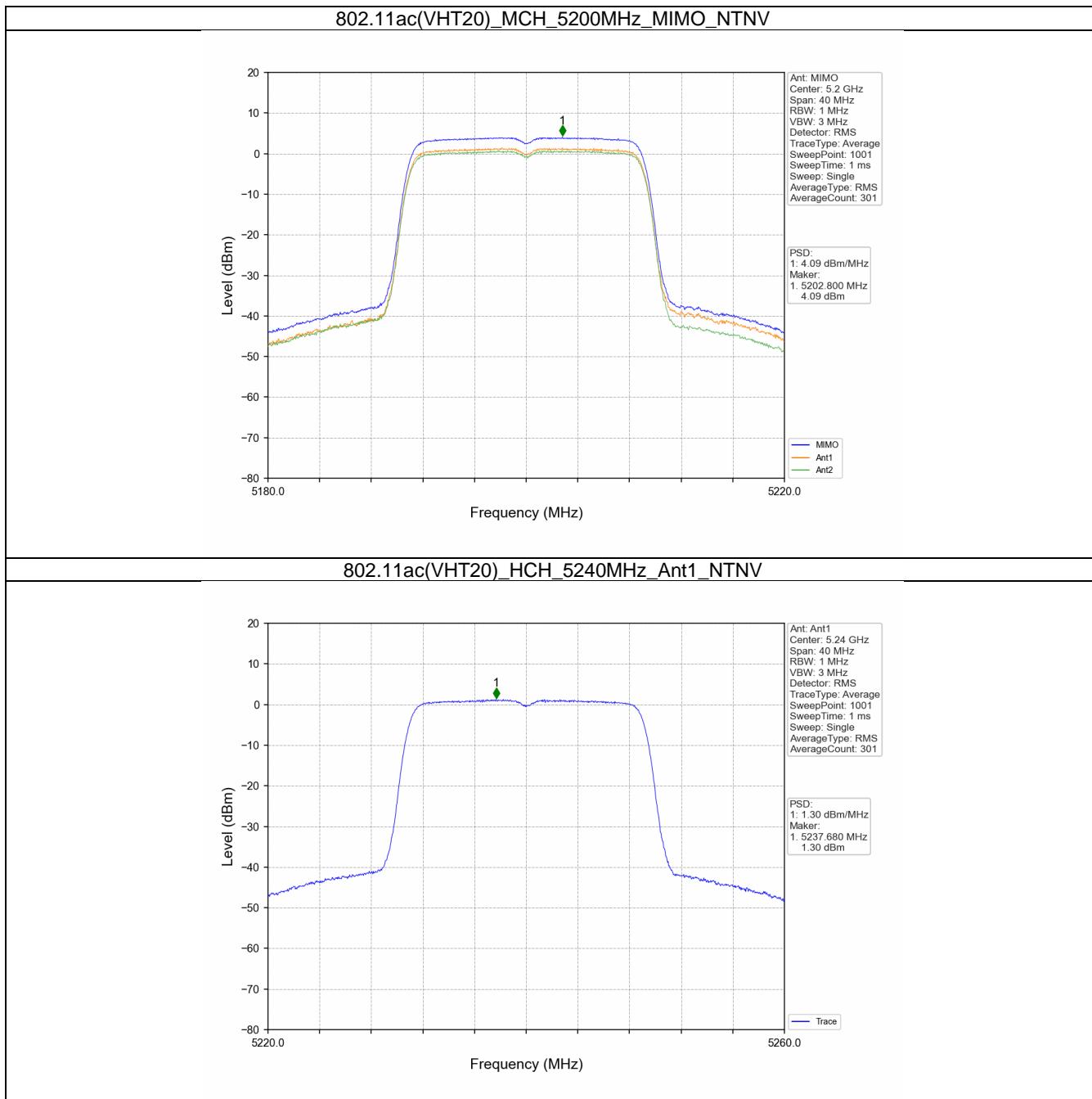
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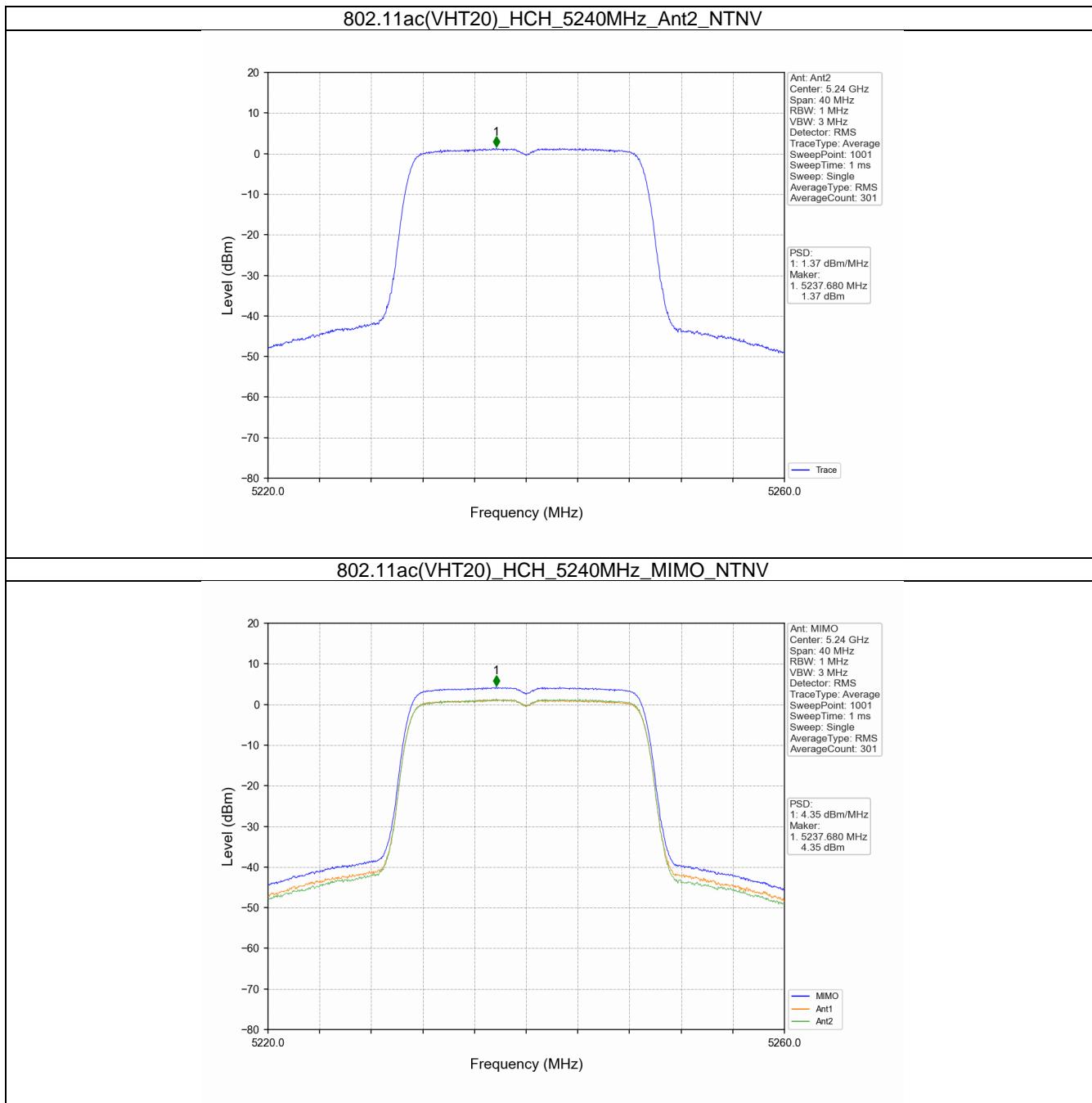
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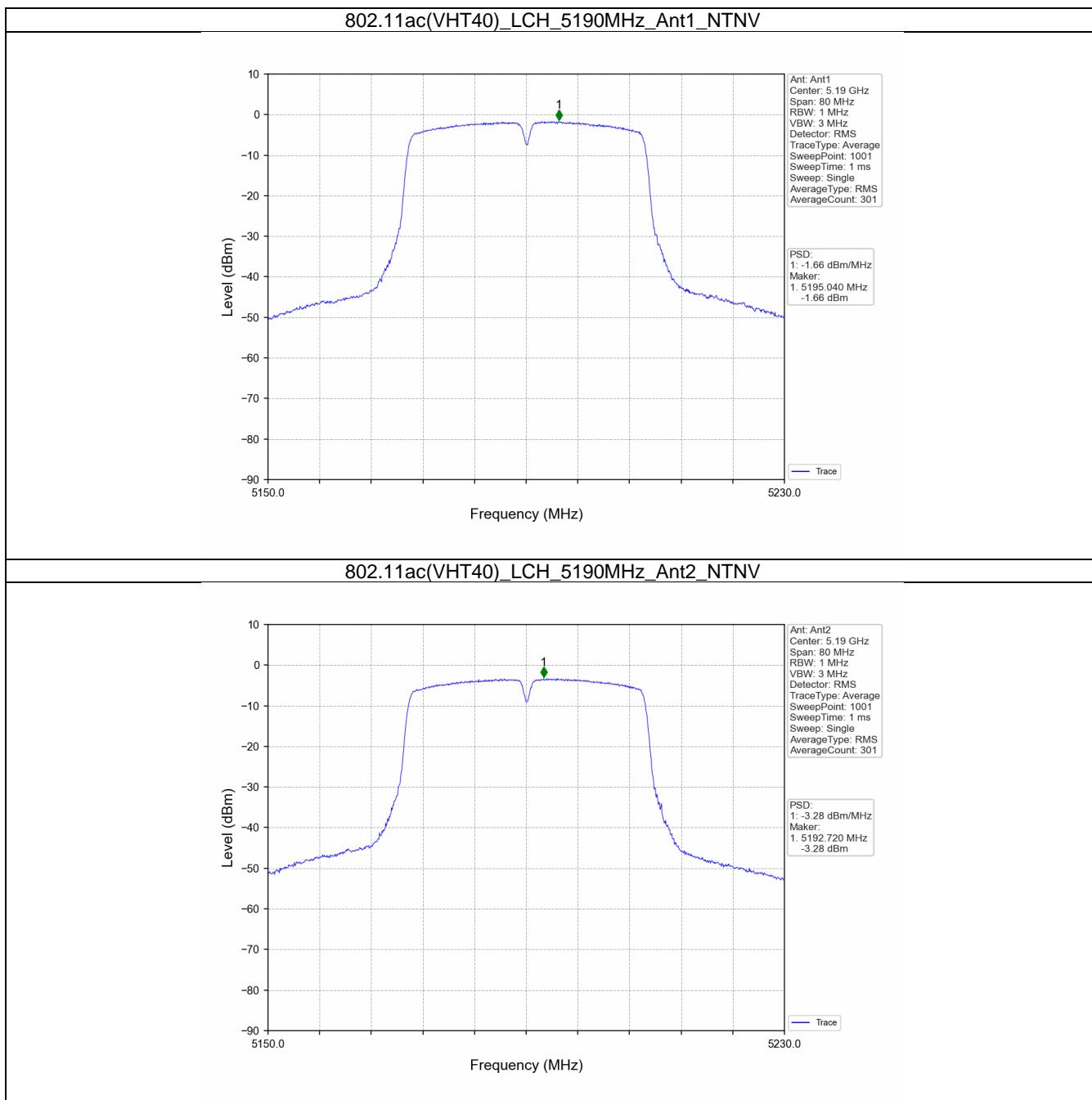




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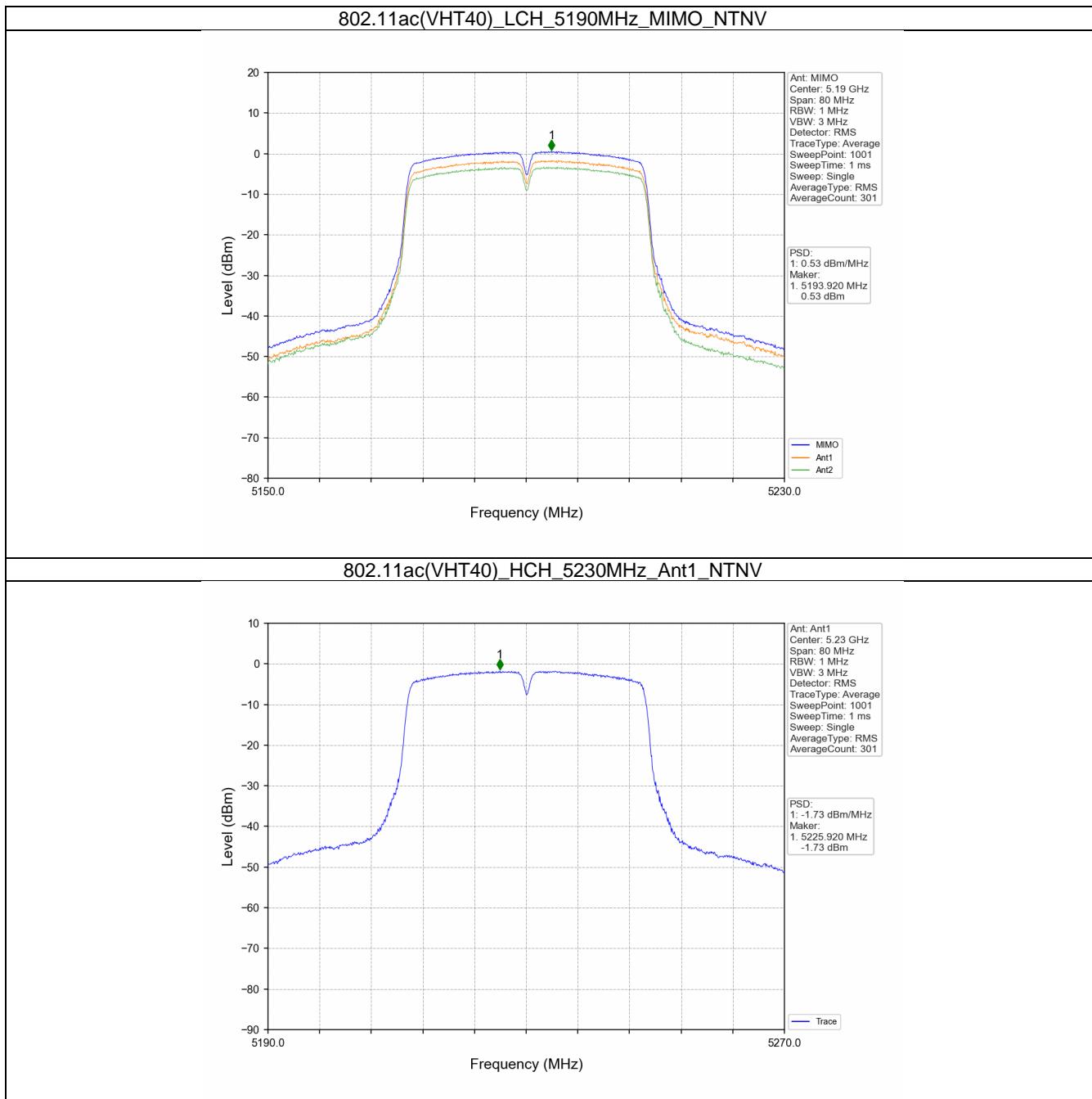
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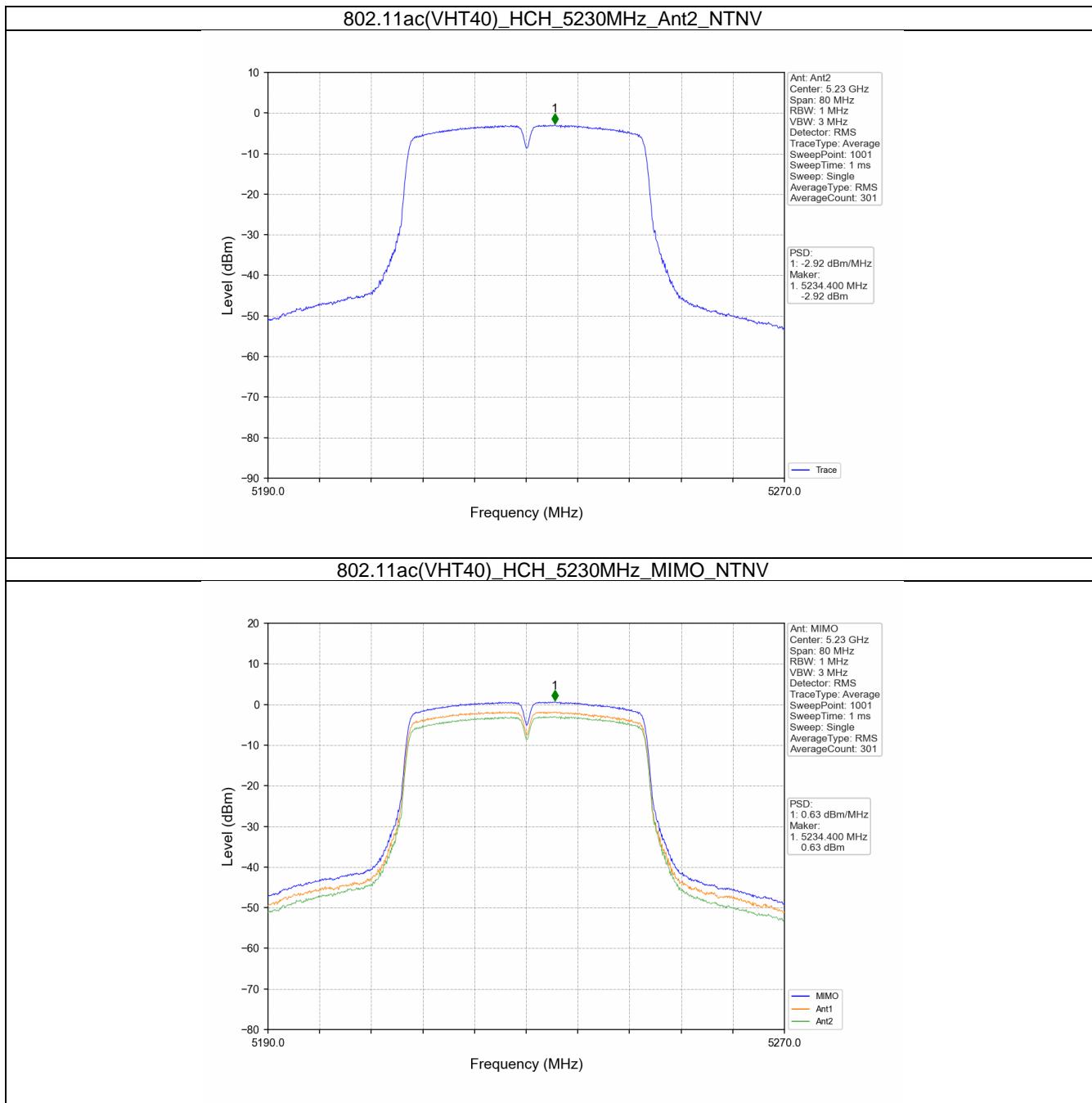
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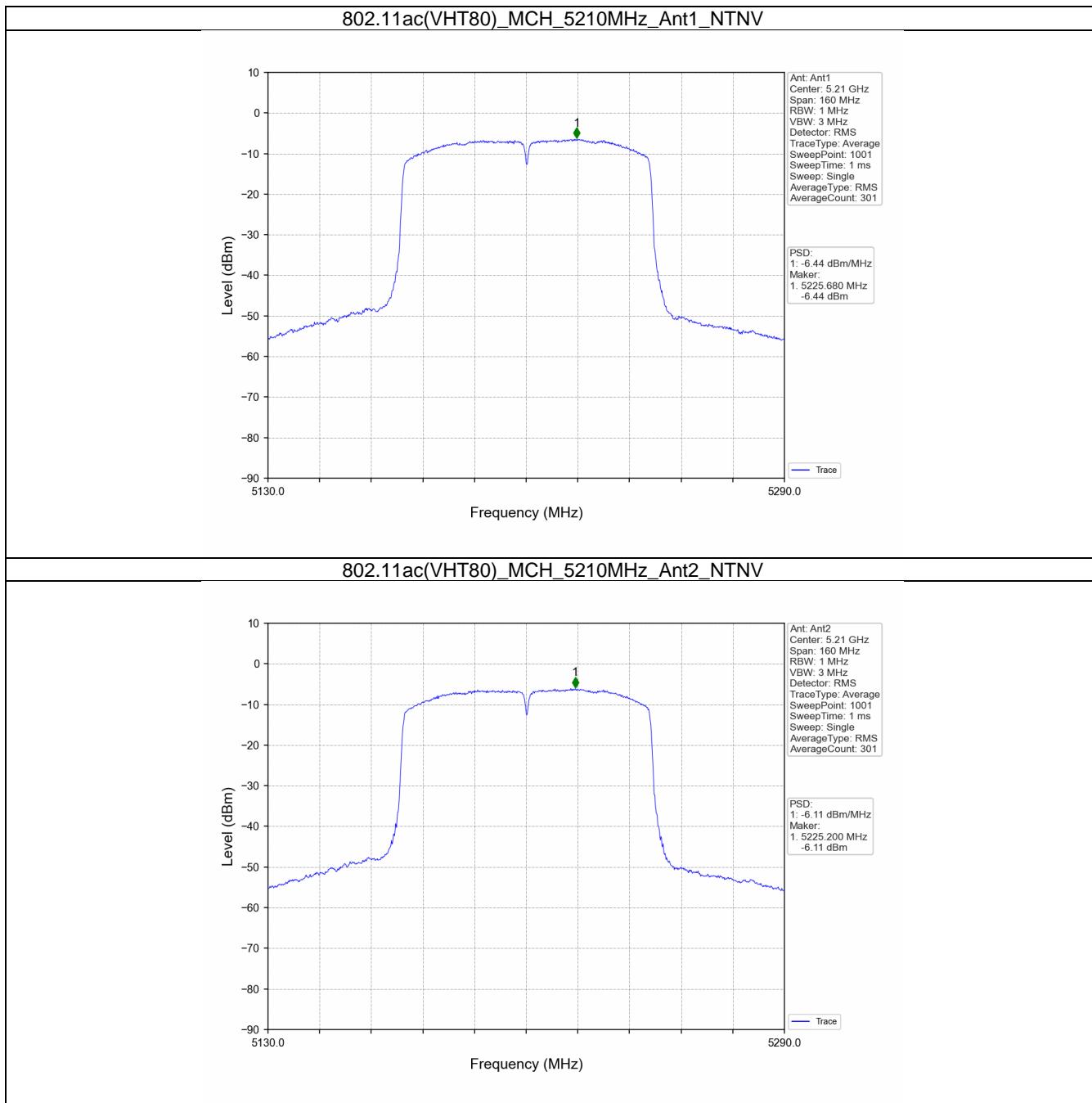
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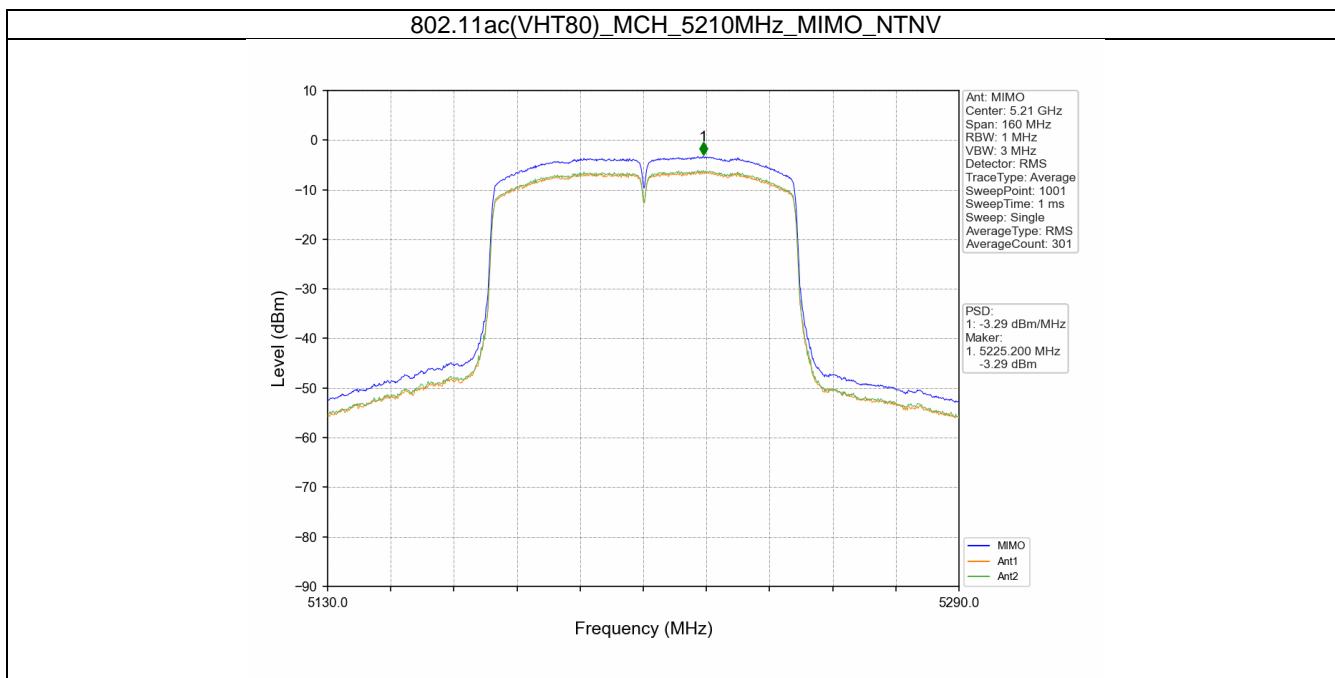
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## 4.2 PSD-Band3

## 4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11a	SISO	5745	-3.90	1.46	/	<=30	Pass
		5785	-3.87	0.02	/	<=30	Pass
		5825	-2.98	-0.47	/	<=30	Pass
802.11n (HT20)	MIMO	5745	-4.34	0.12	1.37	<=30	Pass
		5785	-4.28	-0.21	1.04	<=30	Pass
		5825	-3.62	-0.86	0.81	<=30	Pass
802.11n (HT40)	MIMO	5755	-6.85	-2.60	-1.29	<=30	Pass
		5795	-6.88	-3.42	-1.90	<=30	Pass
802.11ac (VHT20)	MIMO	5745	-5.31	-0.45	0.75	<=30	Pass
		5785	-5.45	-0.68	0.50	<=30	Pass
		5825	-4.60	-1.23	0.40	<=30	Pass
802.11ac (VHT40)	MIMO	5755	-8.23	-3.93	-2.63	<=30	Pass
		5795	-8.10	-4.58	-3.17	<=30	Pass
802.11ac (VHT80)	MIMO	5775	-7.29	-7.08	-4.17	<=30	Pass

Note1: Antenna Gain: Ant1: 1.97dBi; Ant2: 1.89dBi;

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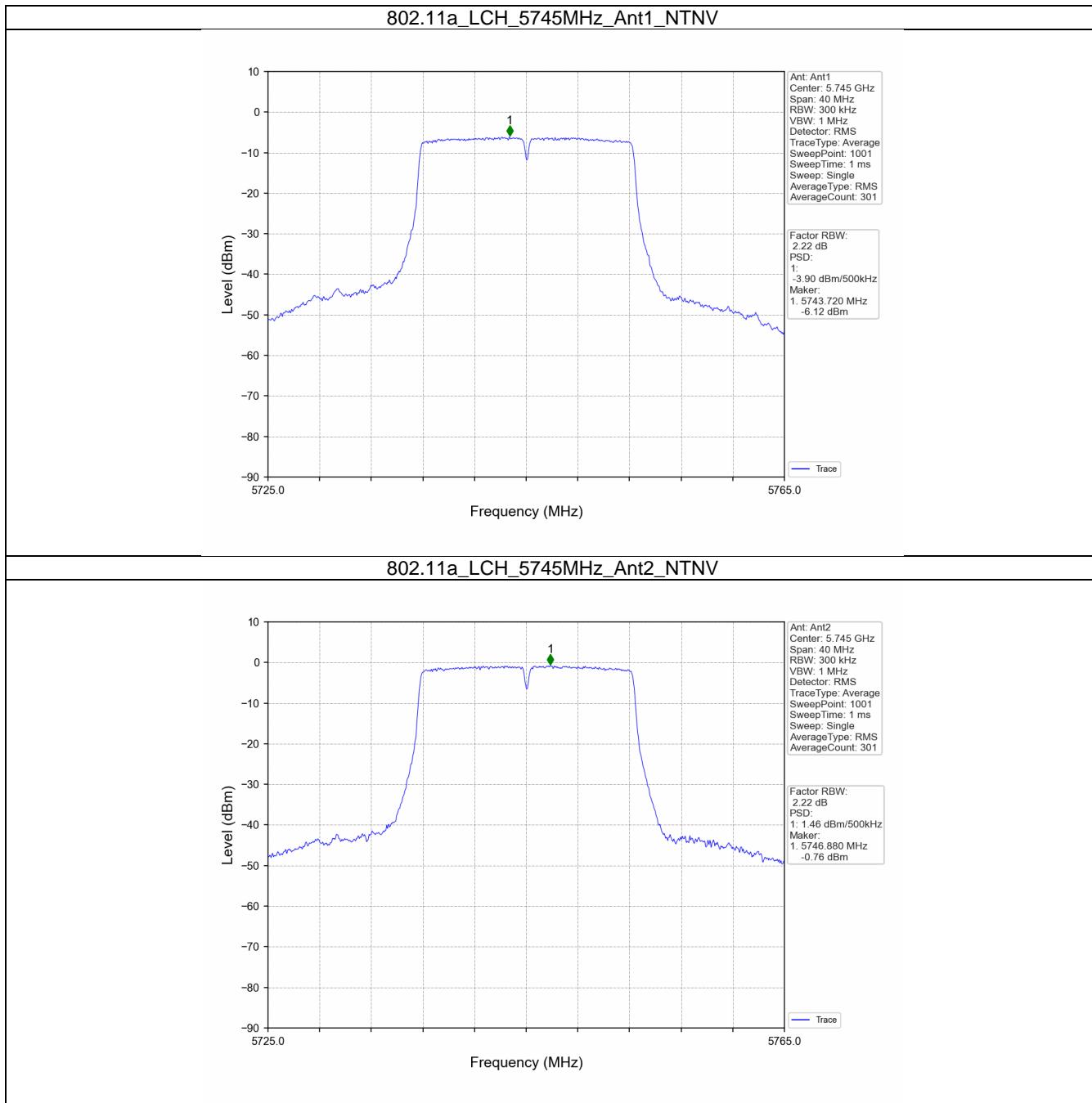
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## 4.2.2 Test Graph



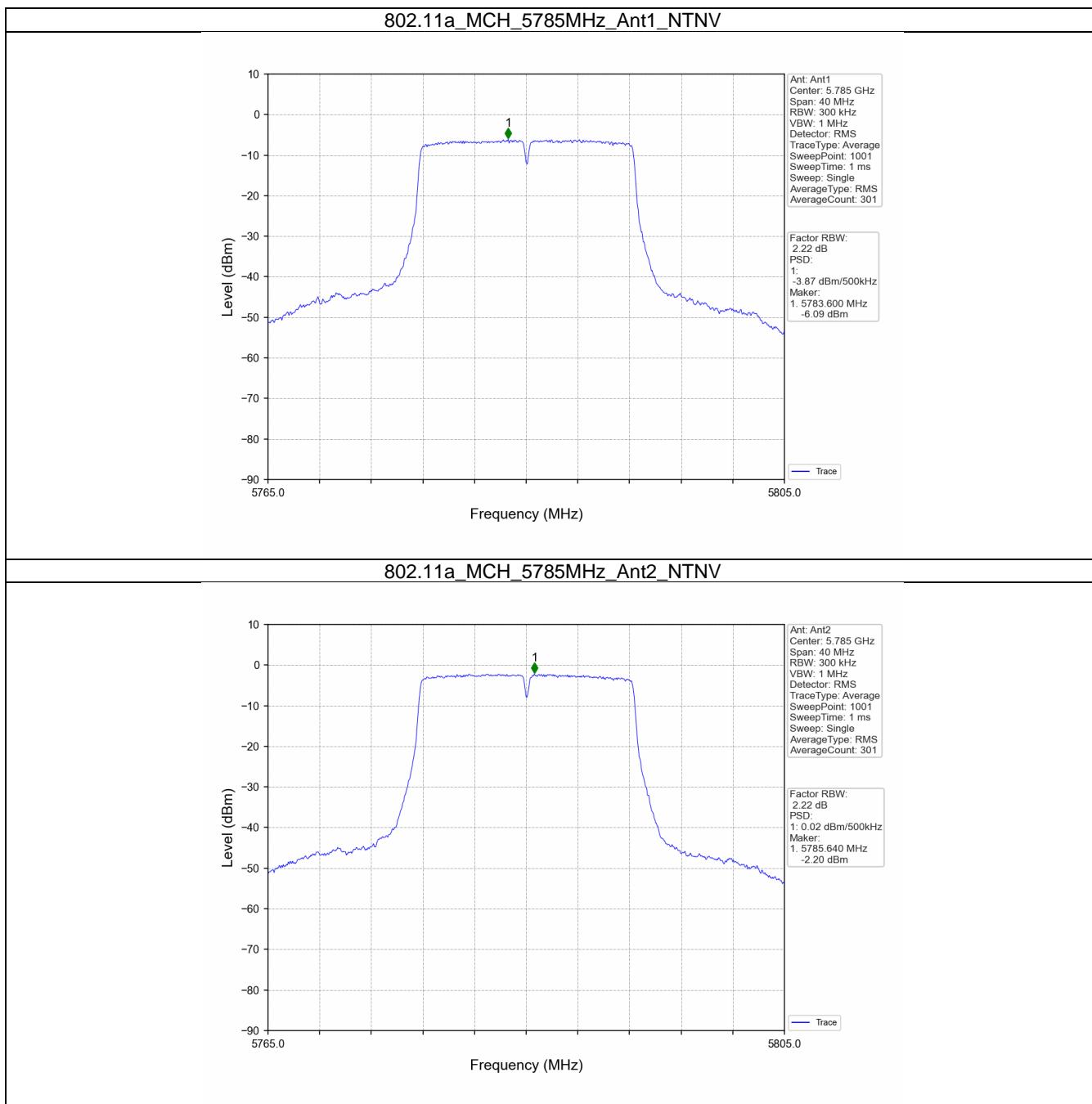
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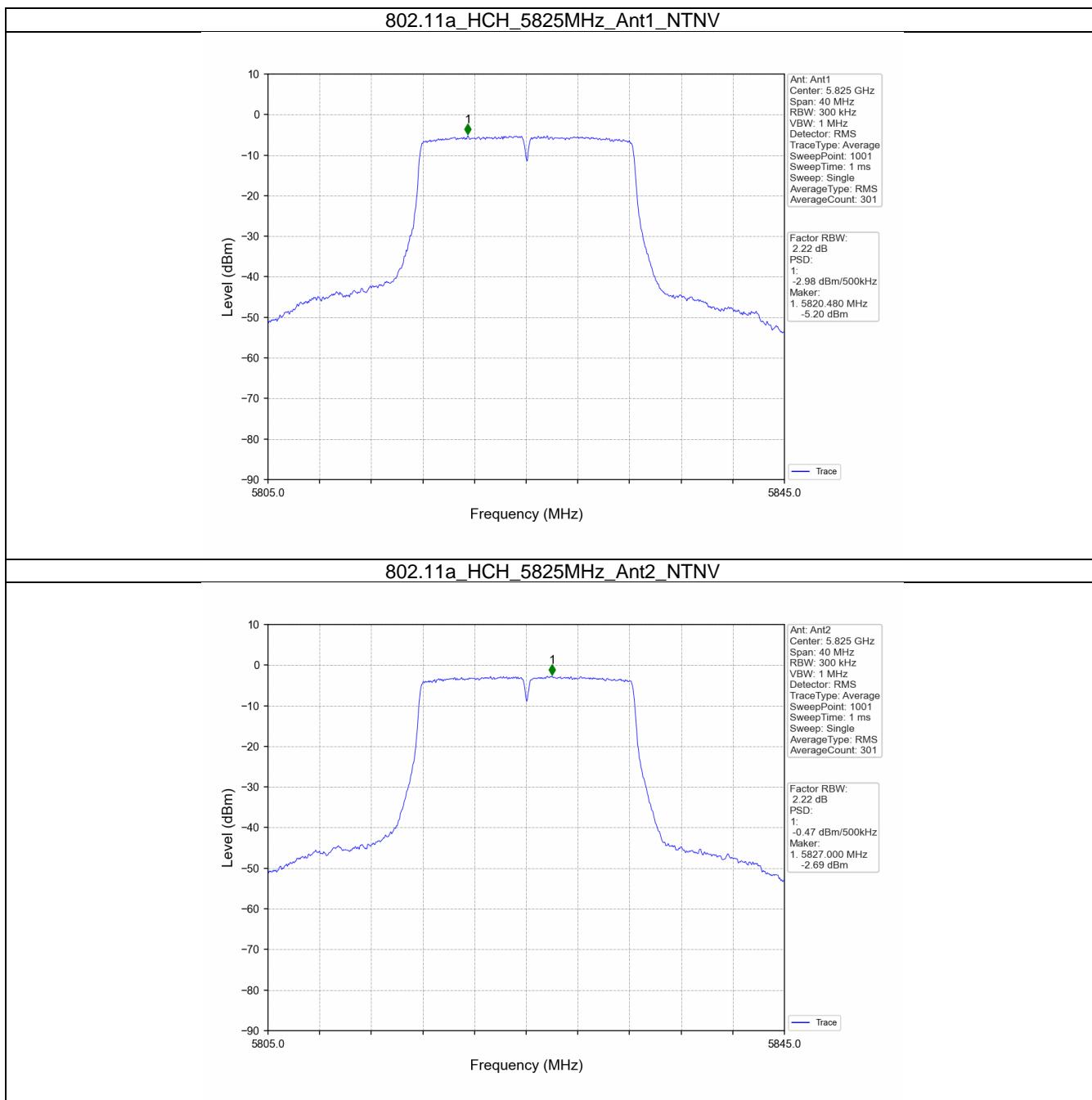
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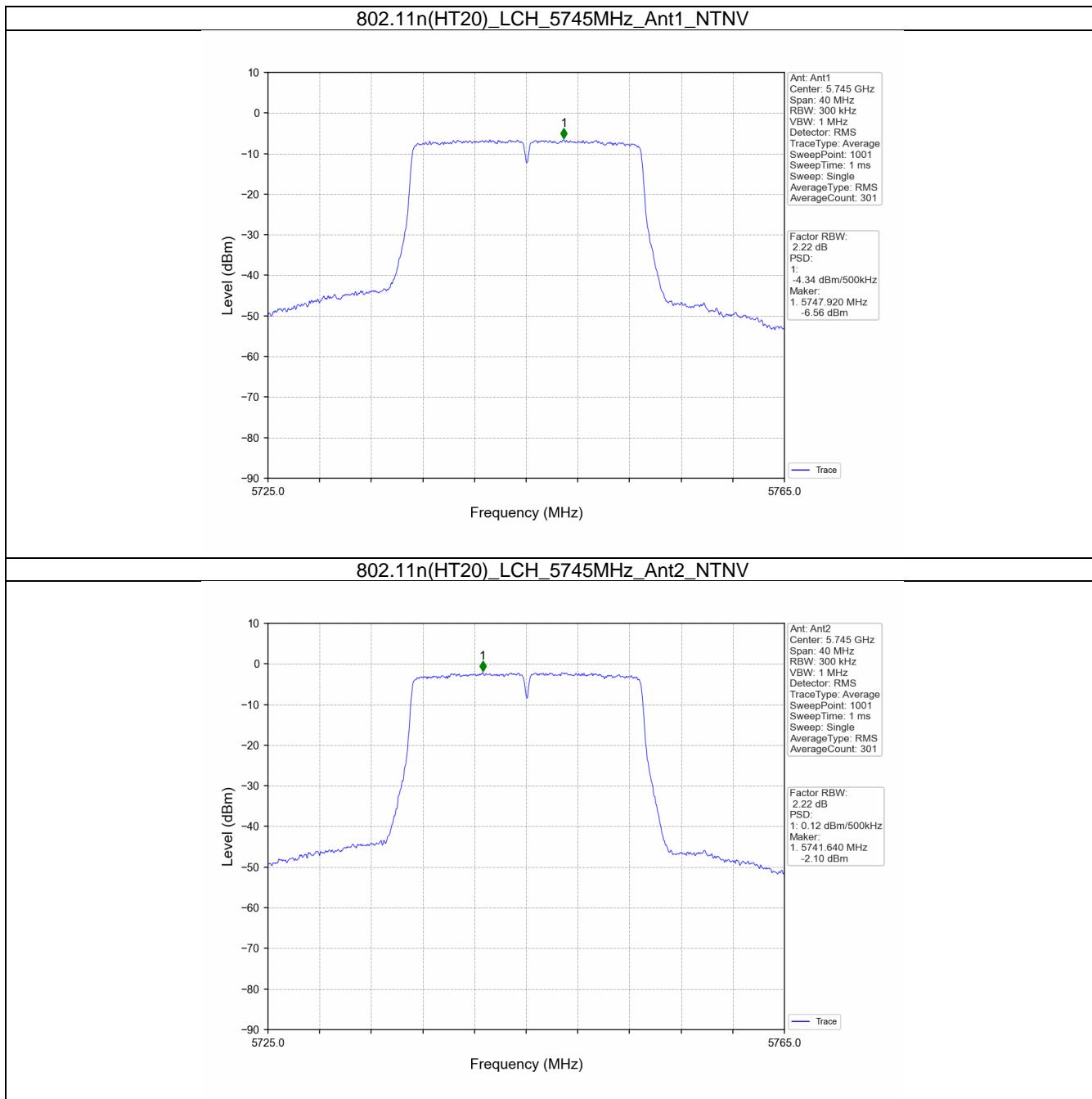
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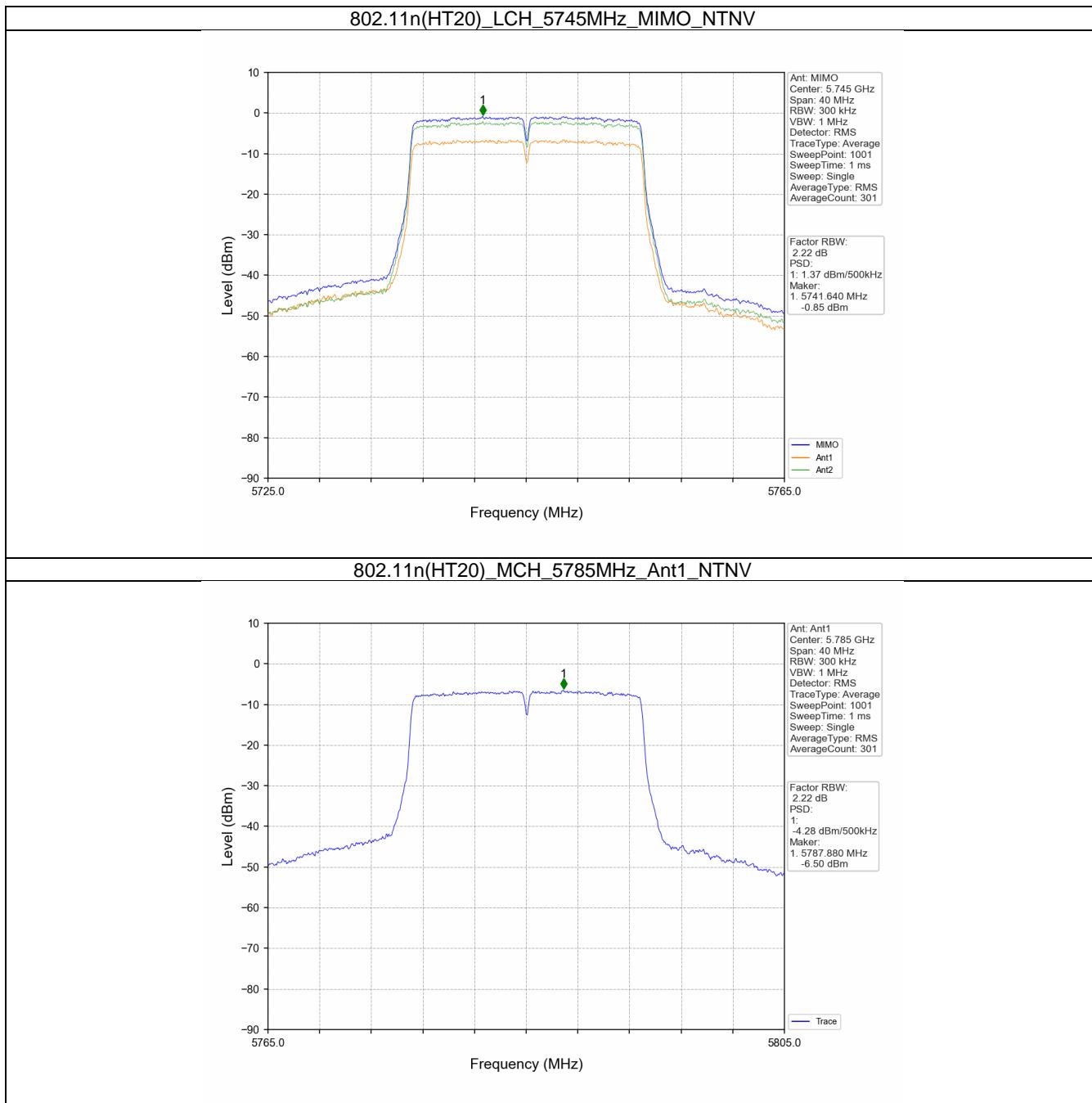




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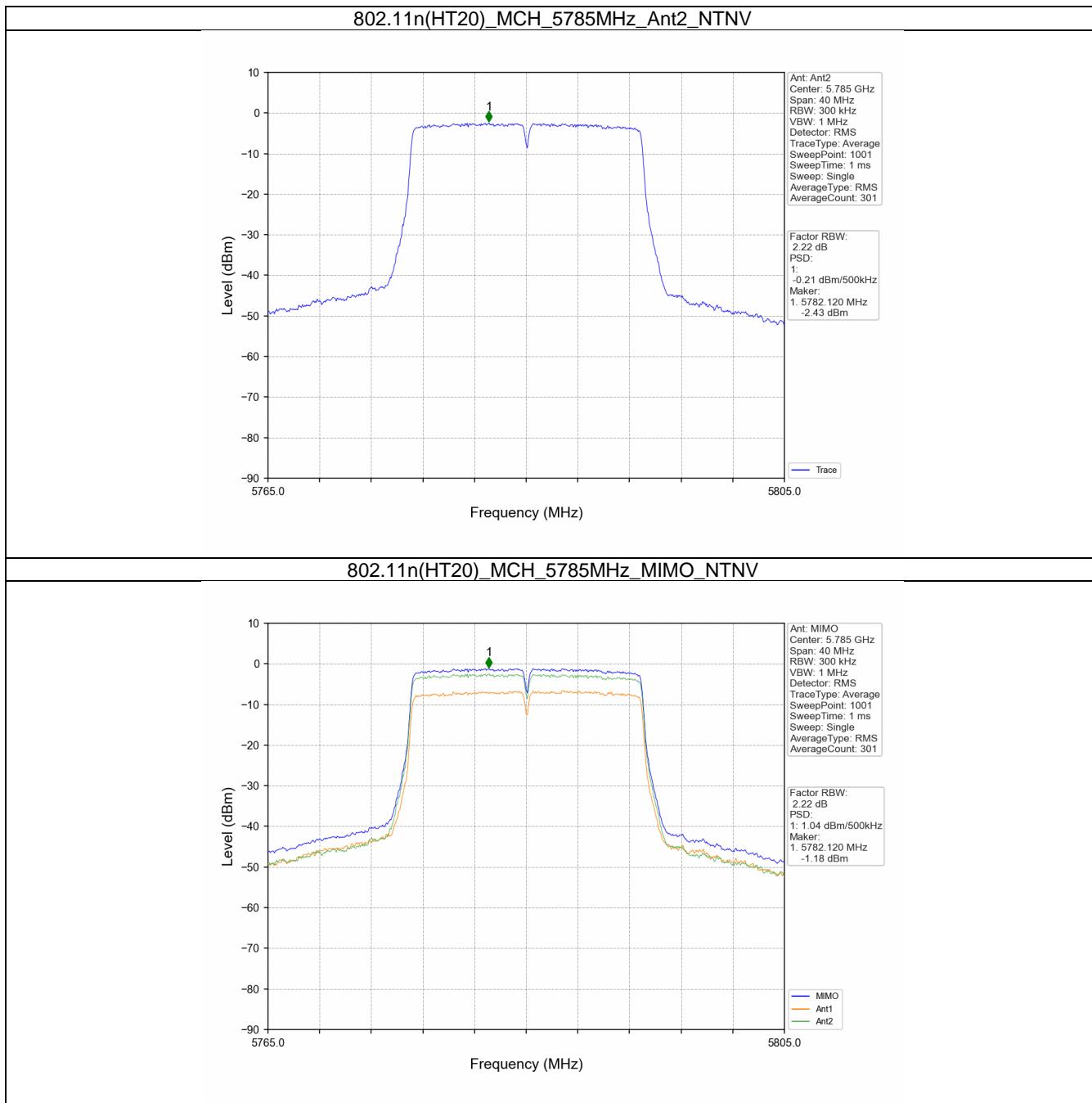
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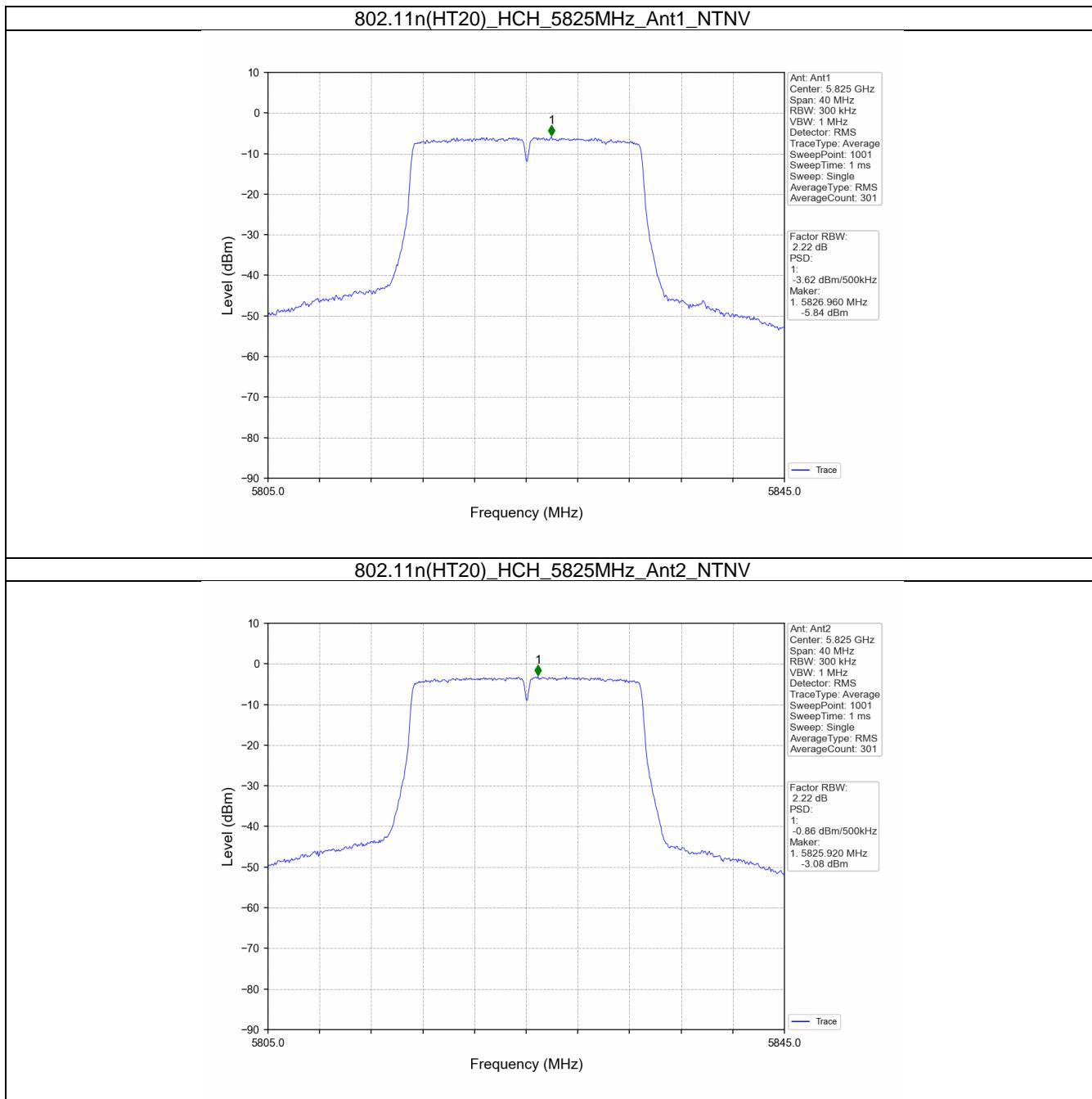
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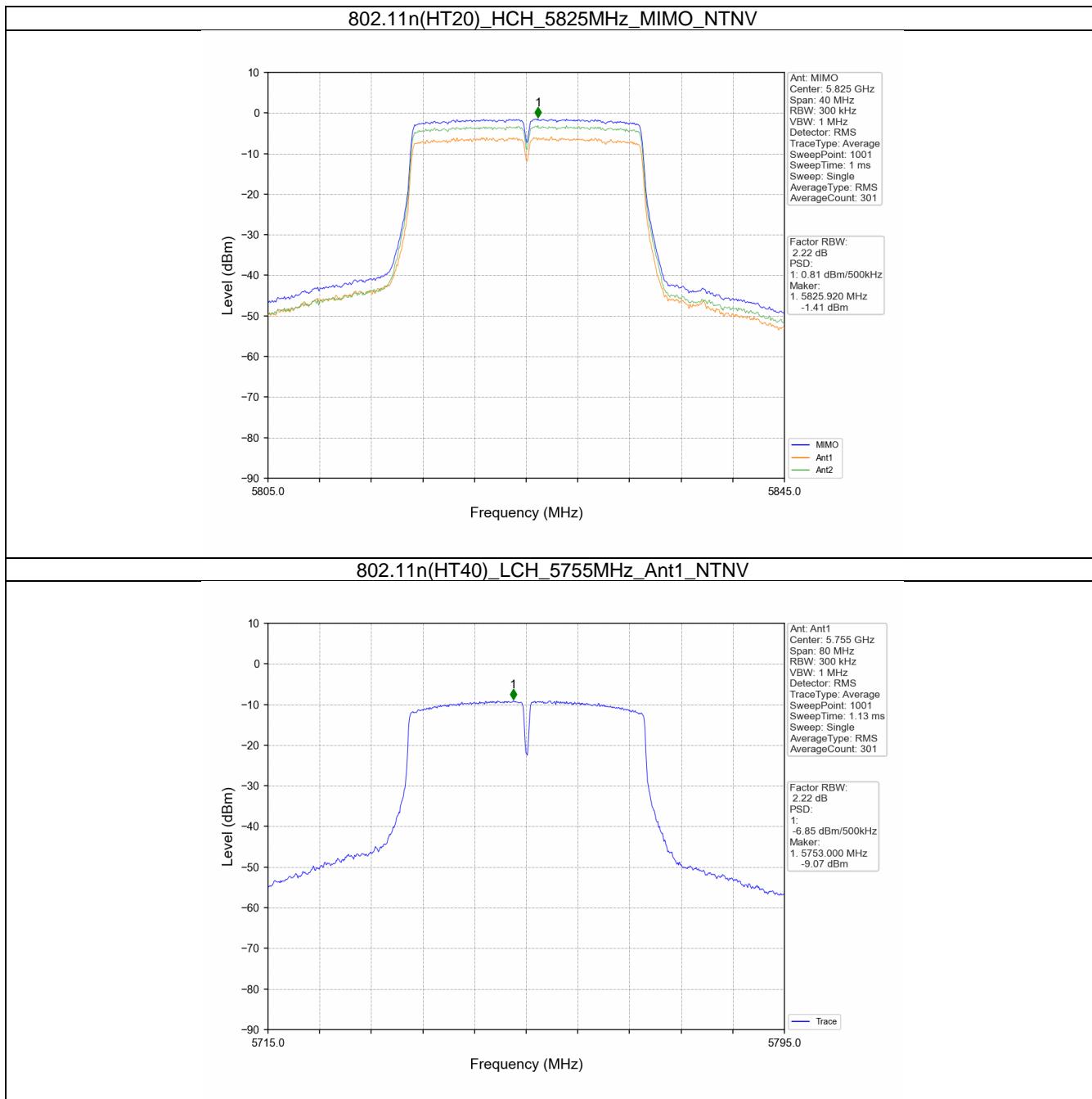
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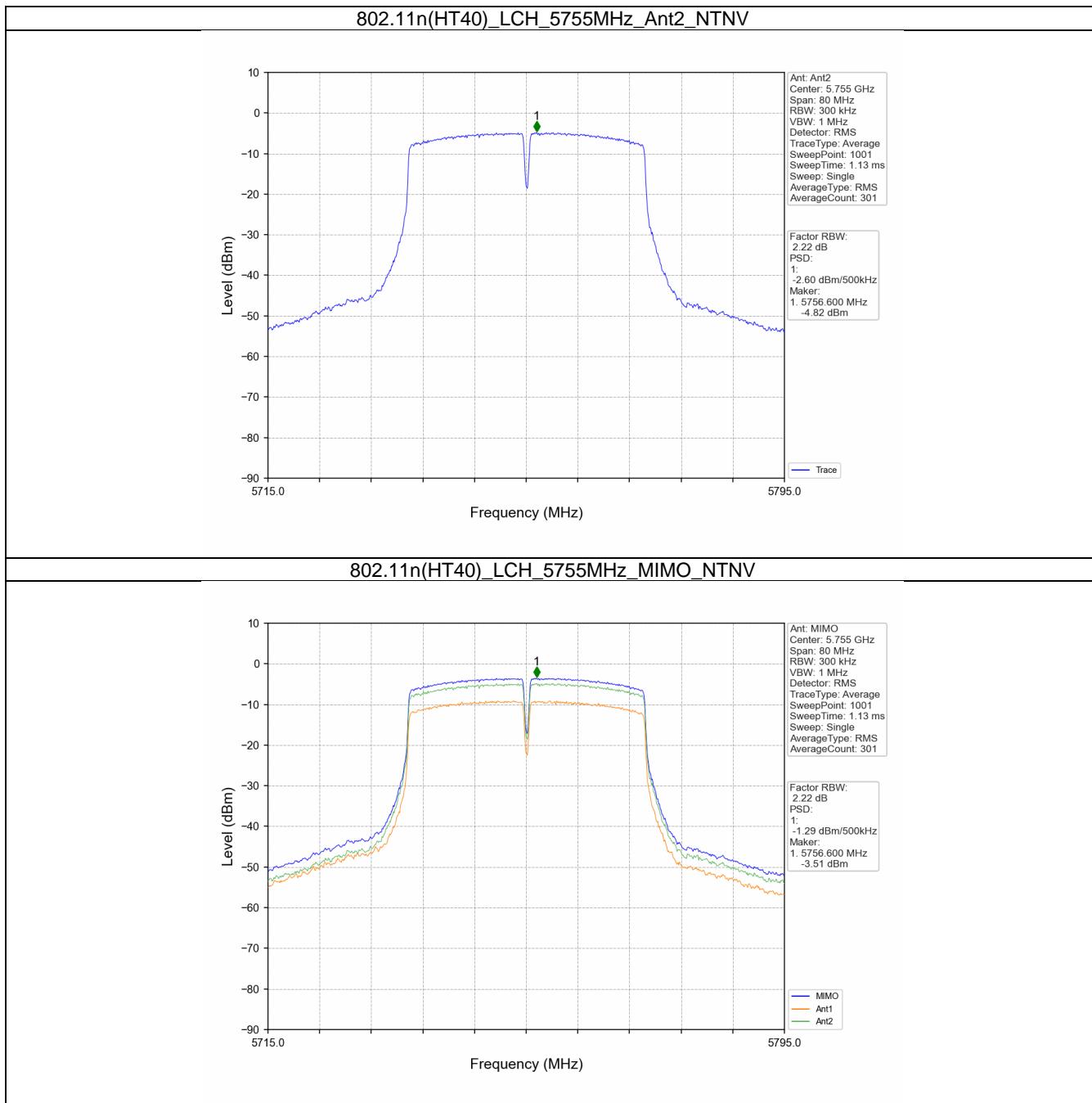
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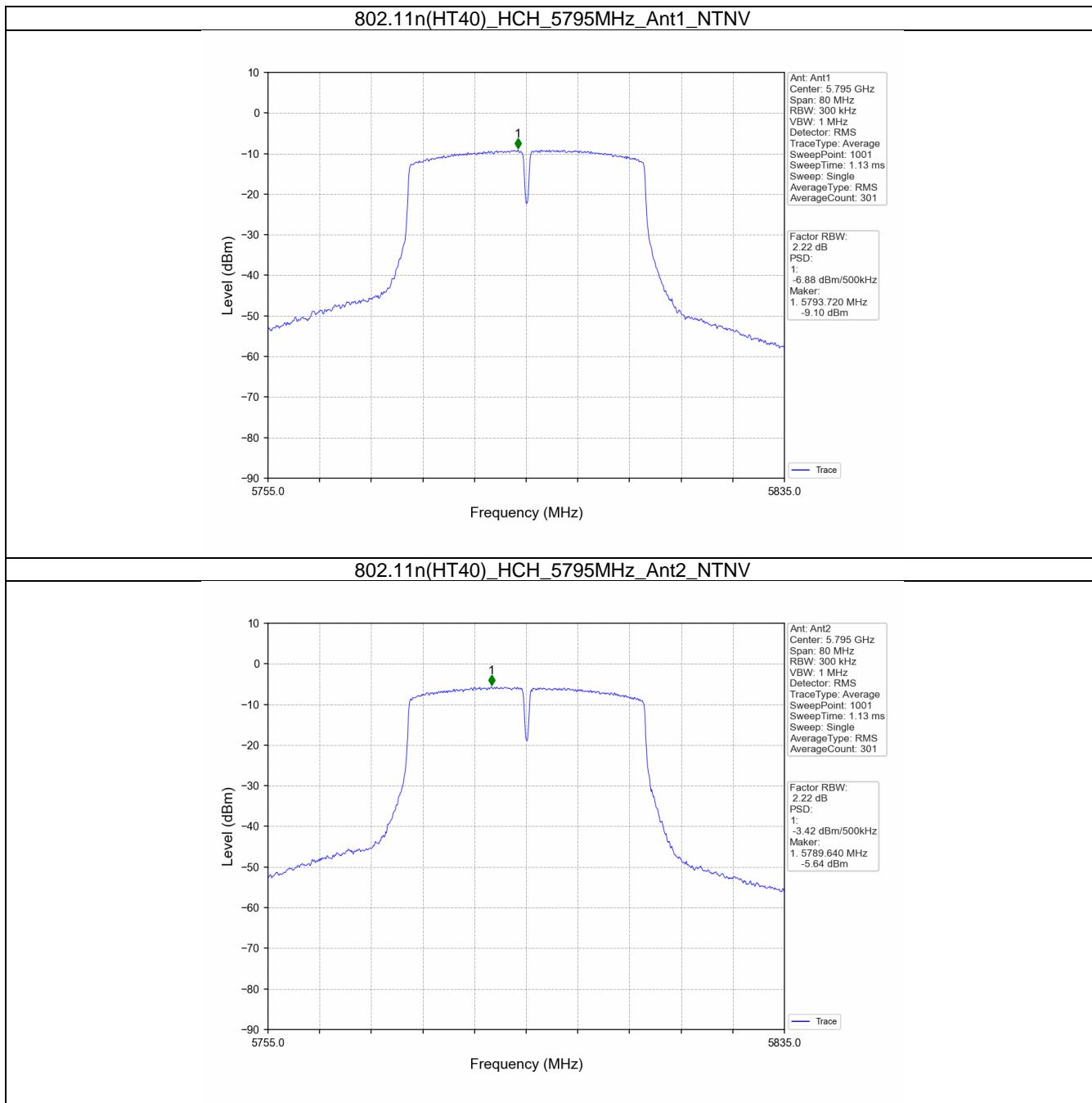
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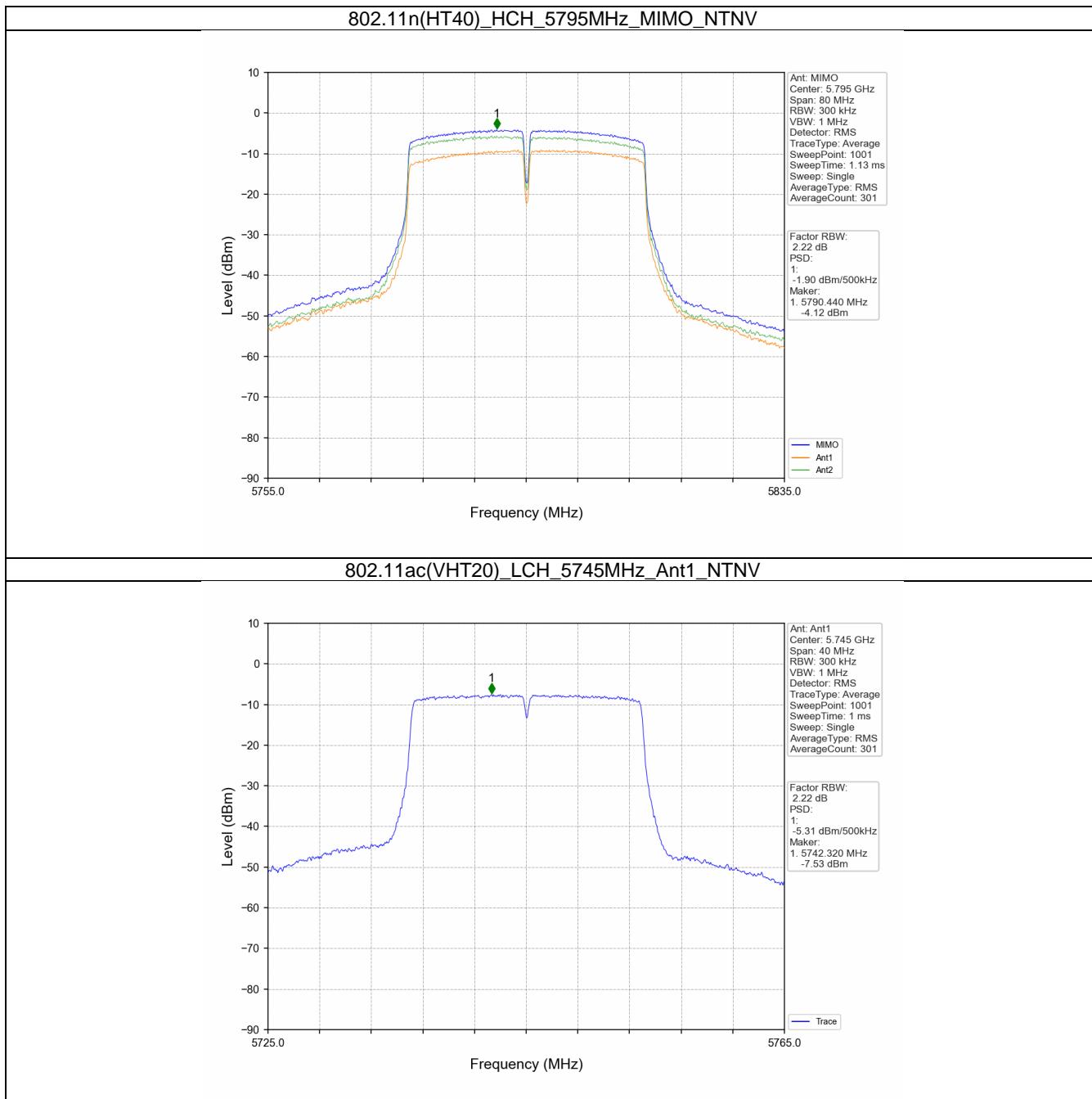
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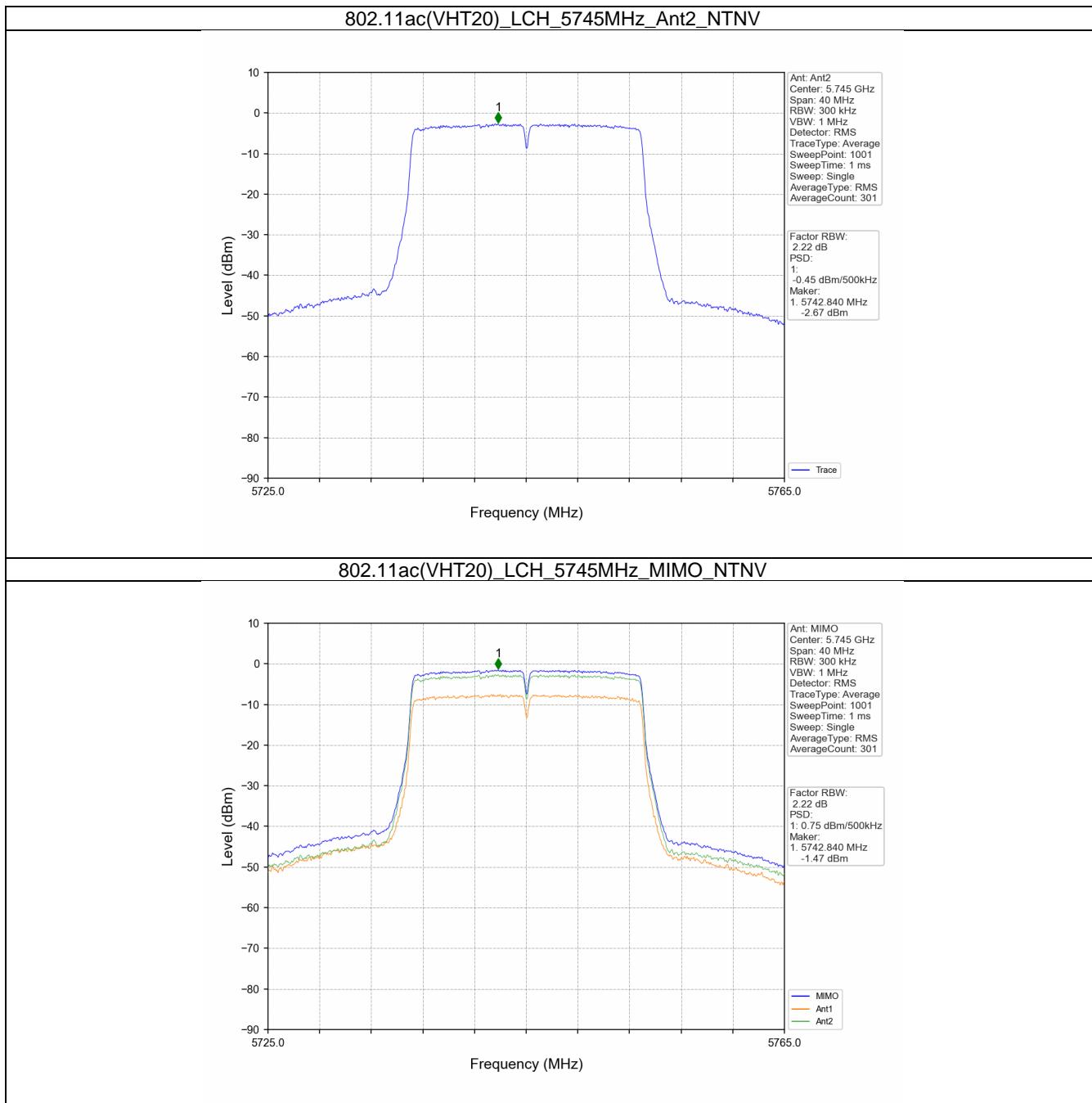




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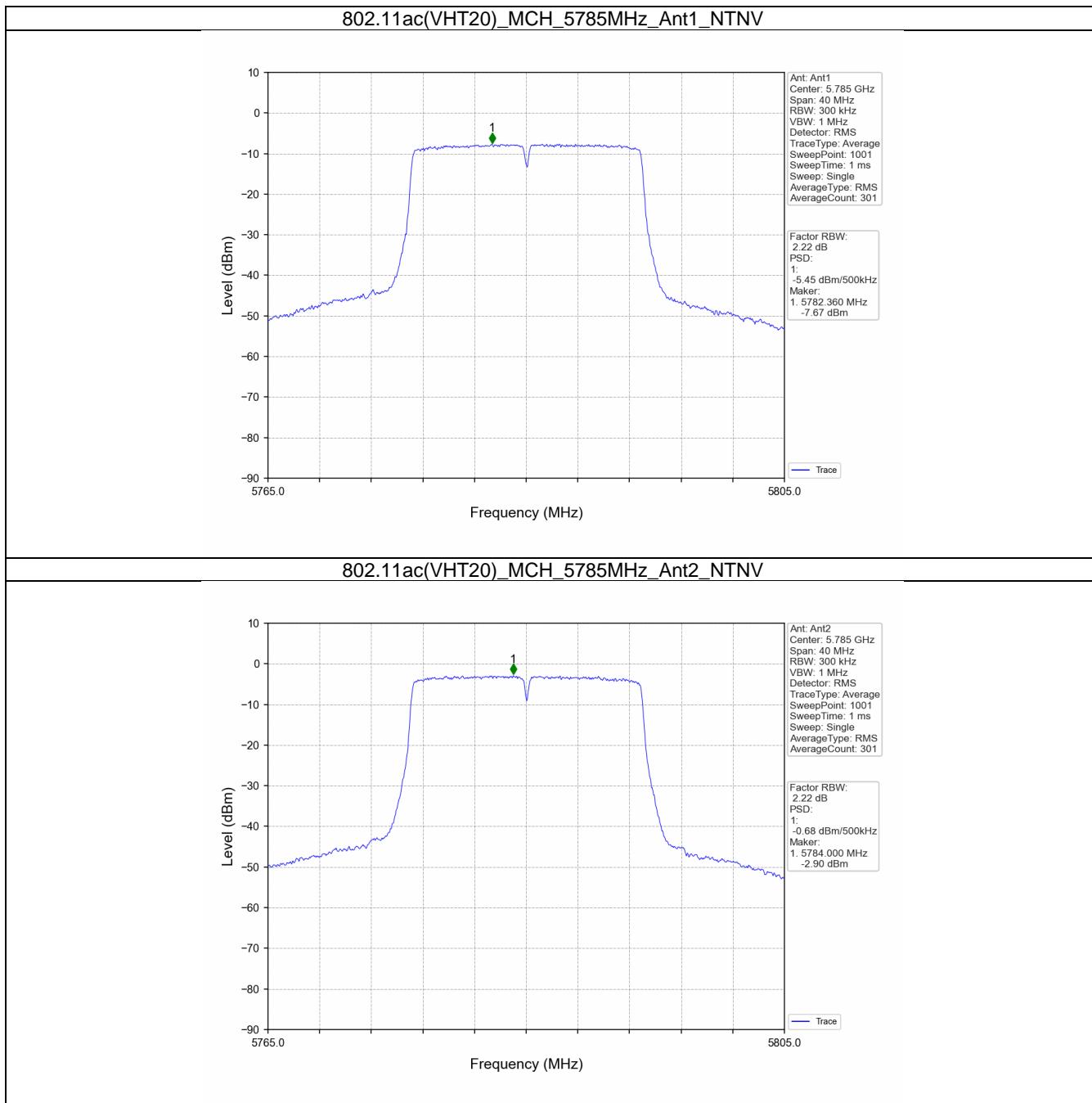
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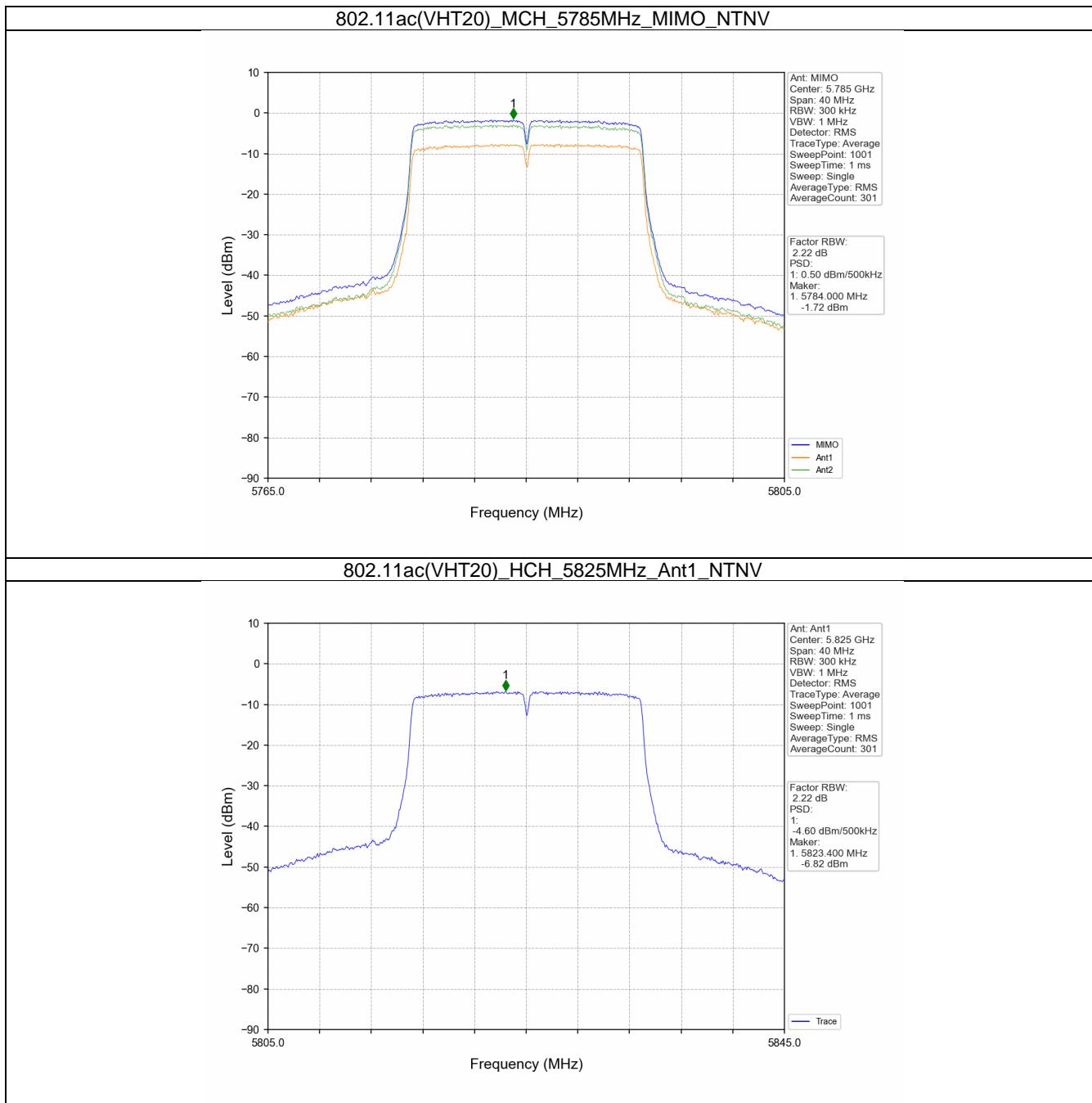
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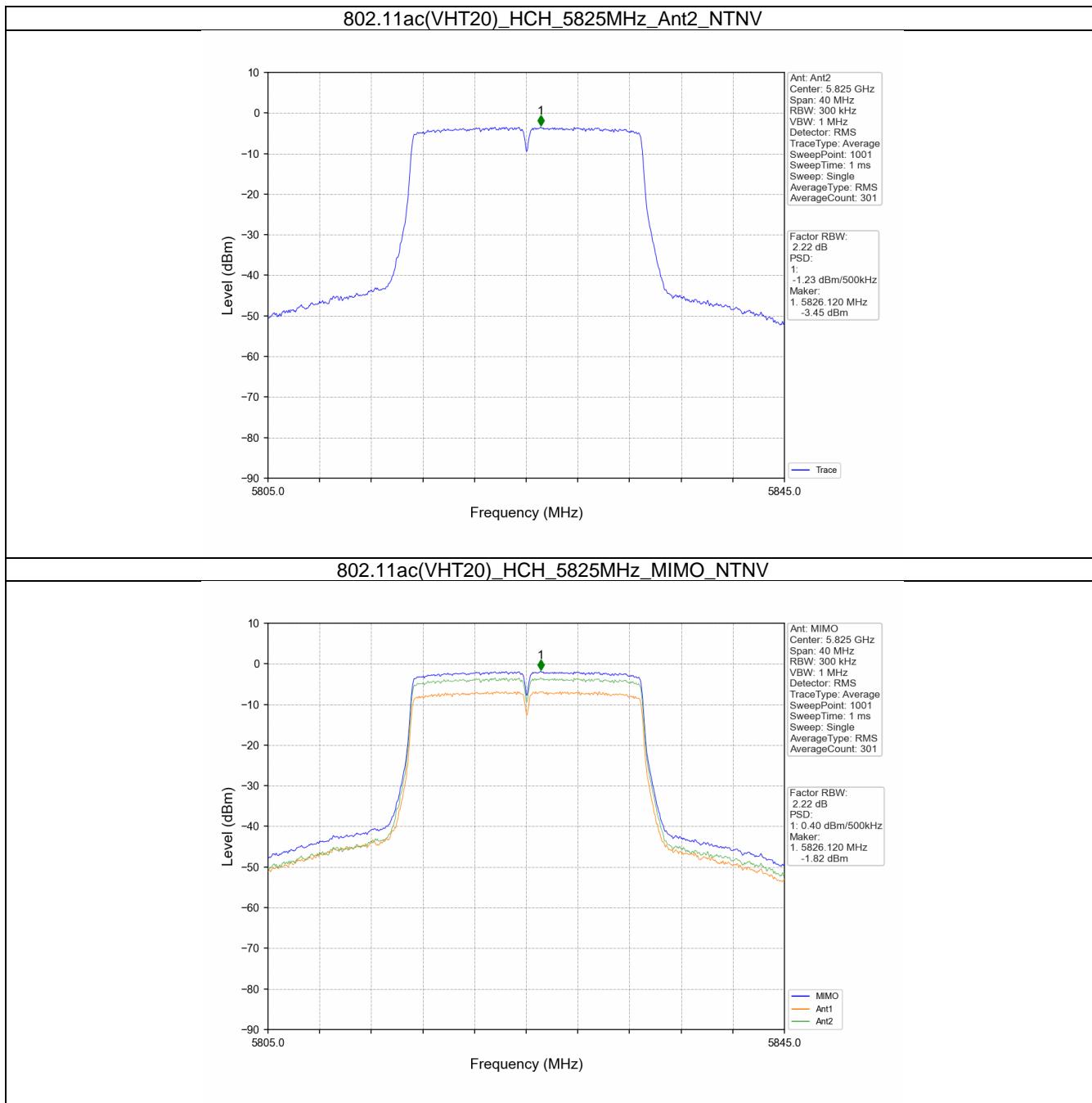
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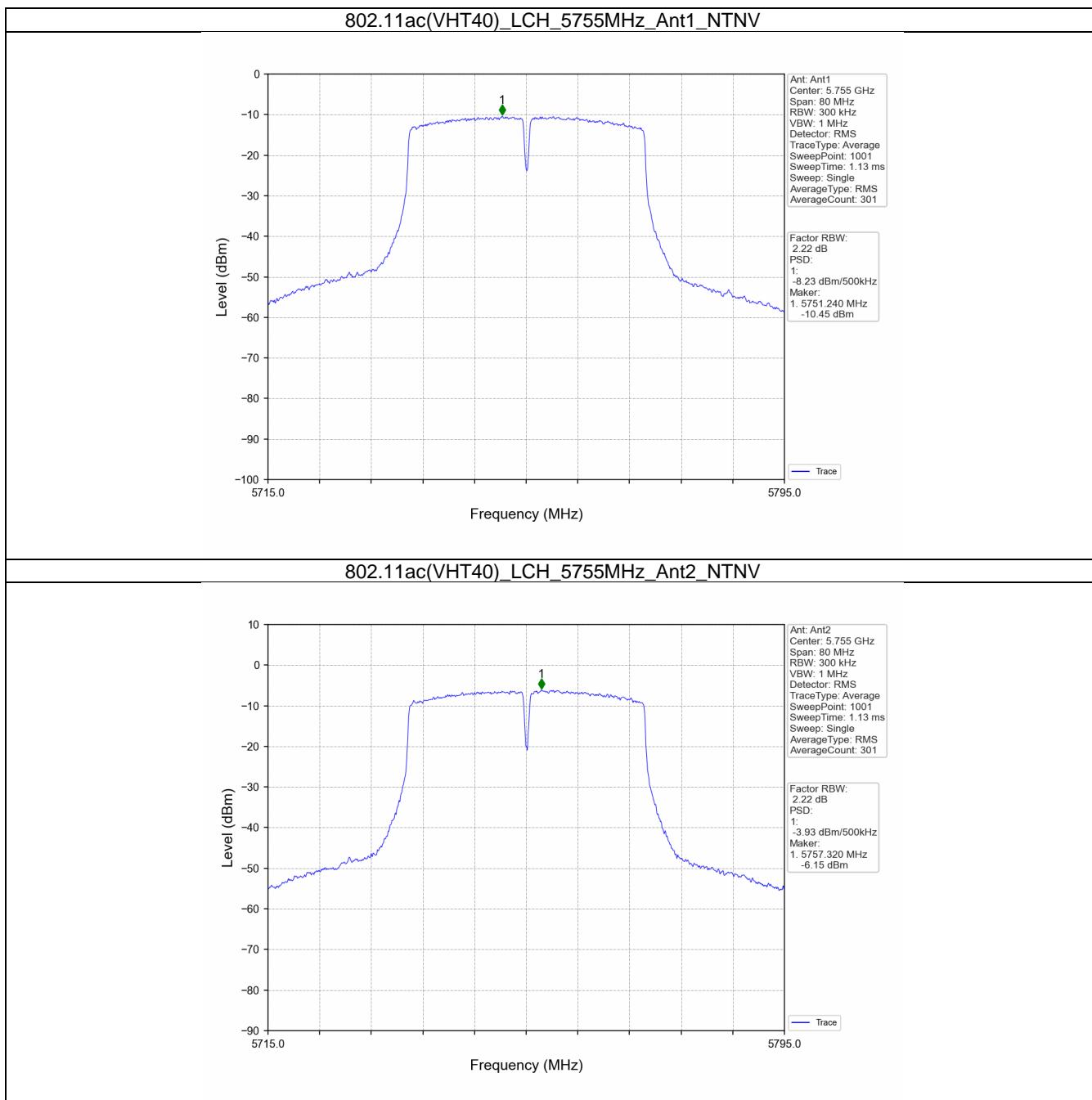
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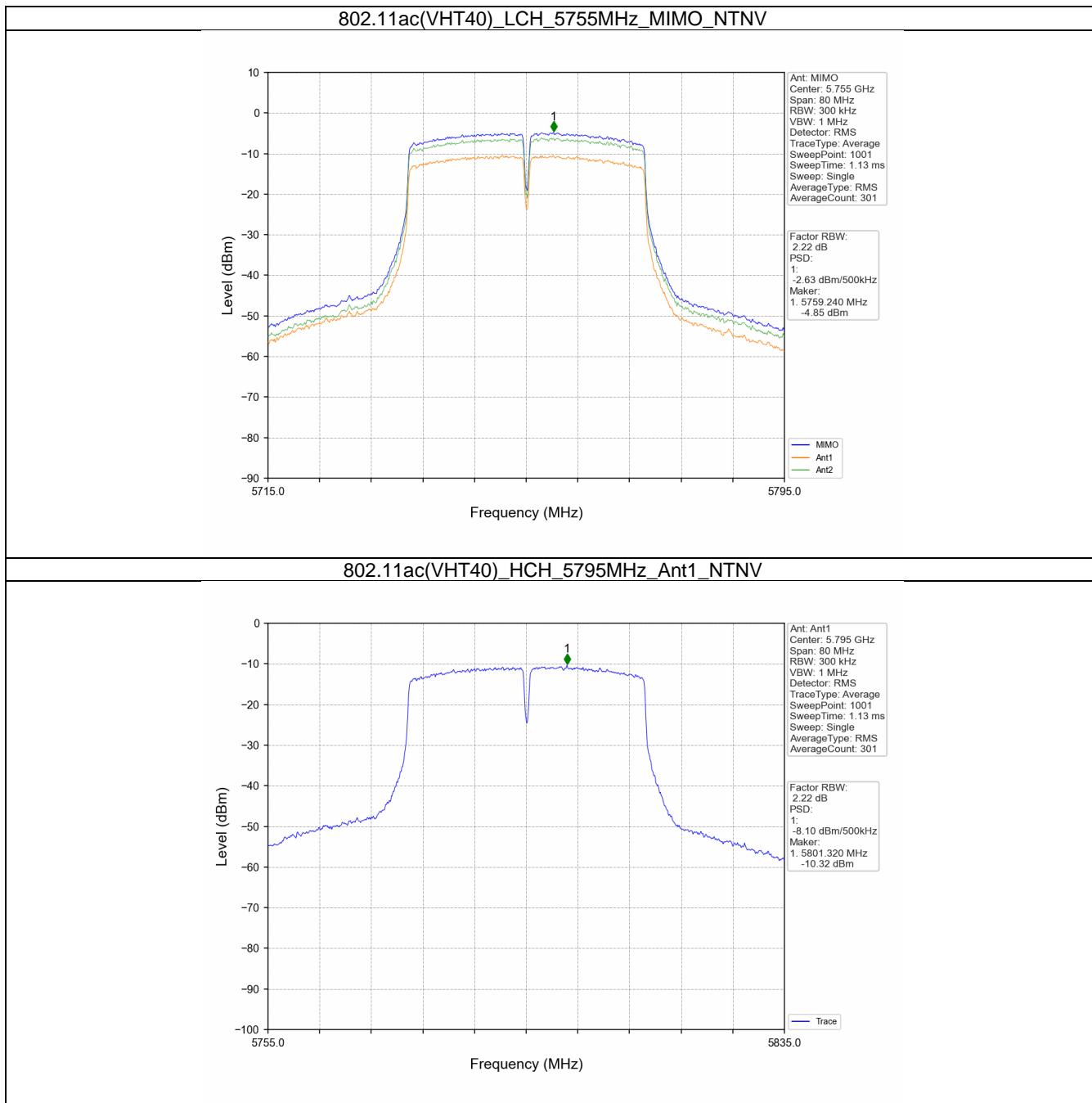
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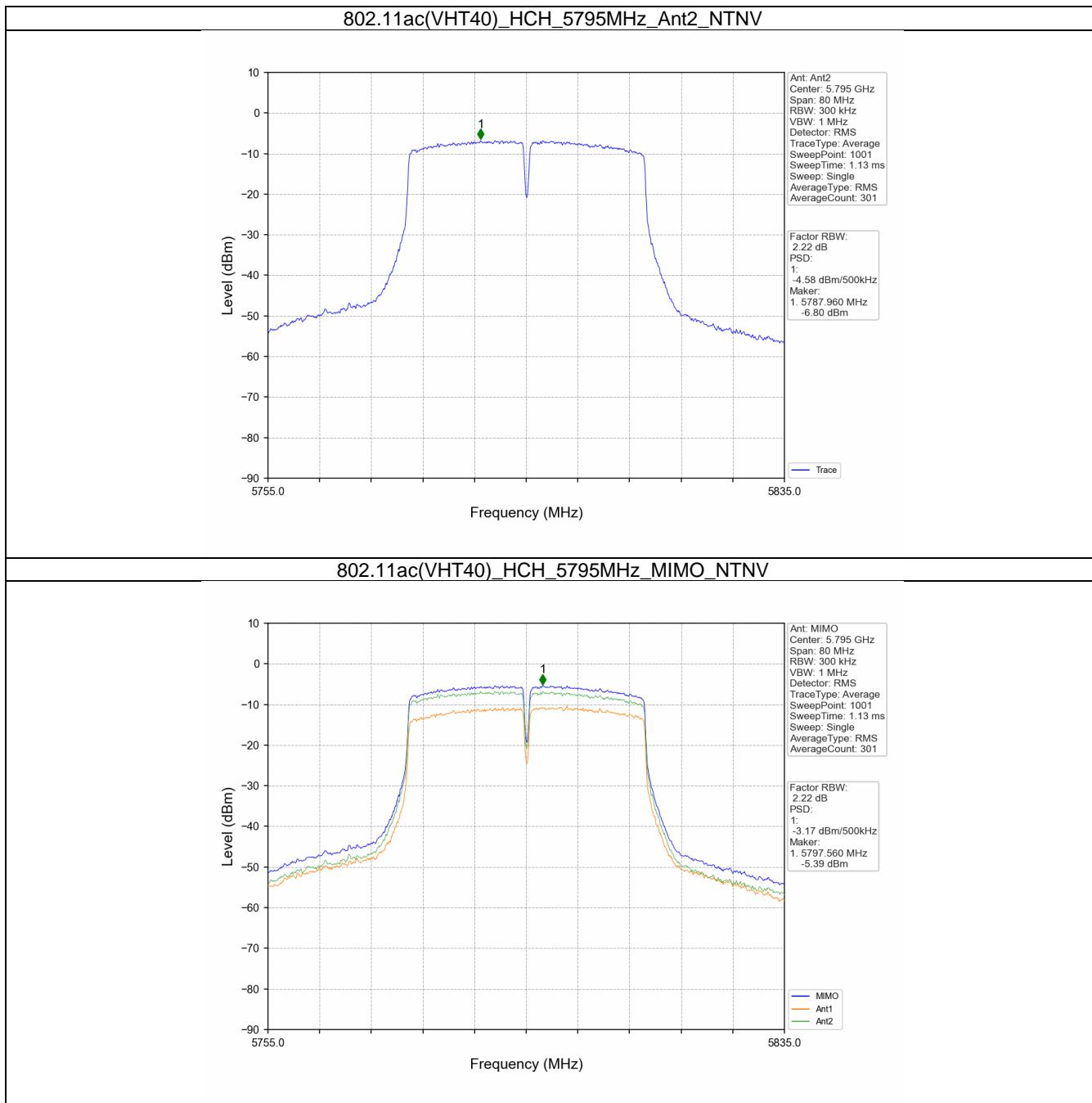
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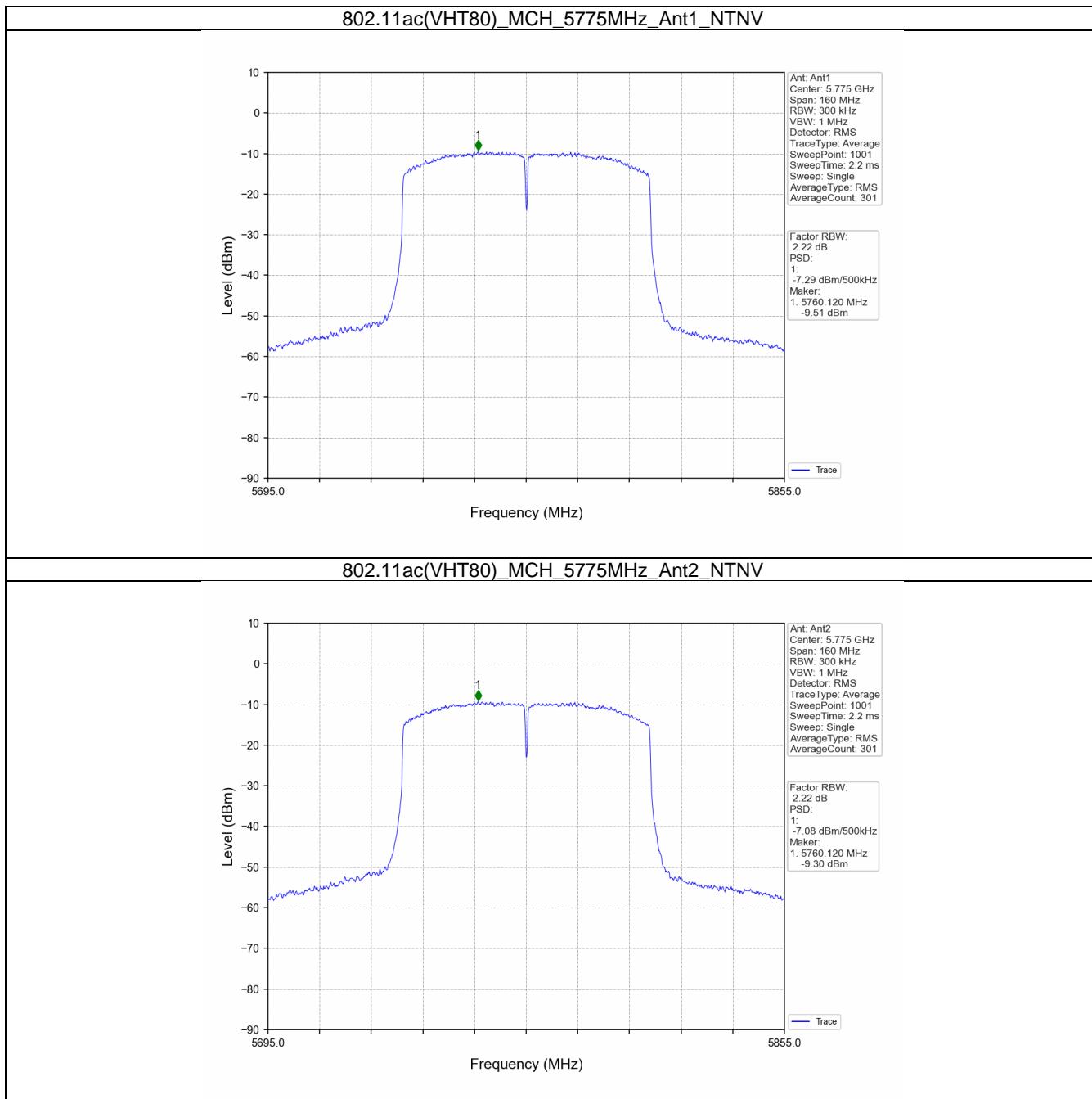




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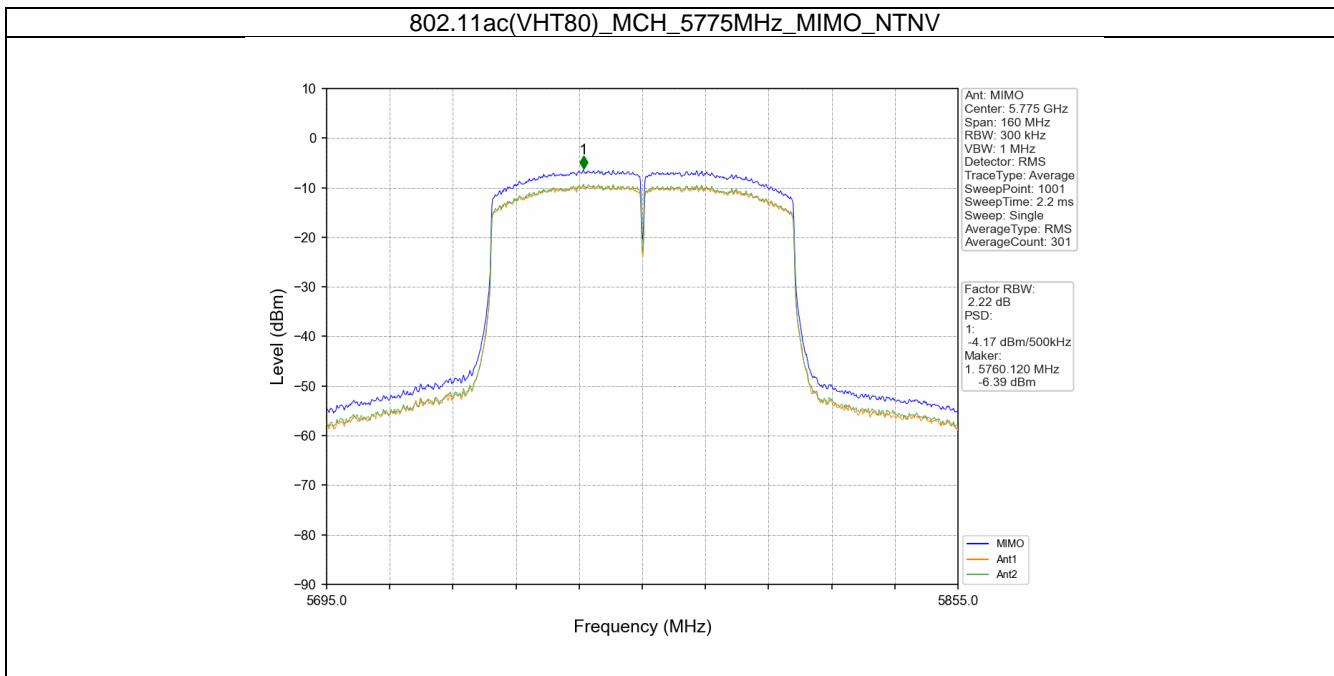




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## 5. Frequency Stability

### 5.1 Ant1

#### 5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	7.65	5180.060	5150 to 5250	Pass
				12.00	5180.000	5150 to 5250	Pass
				36.00	5180.020	5150 to 5250	Pass
			-30	12.00	5180.000	5150 to 5250	Pass
			-20	12.00	5180.020	5150 to 5250	Pass
			-10	12.00	5180.060	5150 to 5250	Pass
			0	12.00	5180.060	5150 to 5250	Pass
			10	12.00	5180.020	5150 to 5250	Pass
			30	12.00	5180.020	5150 to 5250	Pass
			40	12.00	5180.000	5150 to 5250	Pass
			50	12.00	5180.020	5150 to 5250	Pass
		5200	20	7.65	5200.000	5150 to 5250	Pass
				12.00	5200.000	5150 to 5250	Pass
				36.00	5200.000	5150 to 5250	Pass
			-30	12.00	5200.020	5150 to 5250	Pass
			-20	12.00	5200.040	5150 to 5250	Pass
			-10	12.00	5200.080	5150 to 5250	Pass
			0	12.00	5200.000	5150 to 5250	Pass
			10	12.00	5200.020	5150 to 5250	Pass
			30	12.00	5200.000	5150 to 5250	Pass
			40	12.00	5200.020	5150 to 5250	Pass
			50	12.00	5200.020	5150 to 5250	Pass
		5240	20	7.65	5240.020	5150 to 5250	Pass
				12.00	5240.000	5150 to 5250	Pass
				36.00	5239.980	5150 to 5250	Pass
			-30	12.00	5240.000	5150 to 5250	Pass
			-20	12.00	5240.020	5150 to 5250	Pass
			-10	12.00	5240.020	5150 to 5250	Pass
			0	12.00	5240.000	5150 to 5250	Pass
			10	12.00	5240.020	5150 to 5250	Pass
			30	12.00	5239.980	5150 to 5250	Pass
			40	12.00	5239.980	5150 to 5250	Pass
			50	12.00	5240.000	5150 to 5250	Pass
		5745	20	7.65	5745.000	5725 to 5850	Pass
				12.00	5745.000	5725 to 5850	Pass
				36.00	5745.000	5725 to 5850	Pass
			-30	12.00	5745.000	5725 to 5850	Pass
			-20	12.00	5745.000	5725 to 5850	Pass
			-10	12.00	5745.020	5725 to 5850	Pass
			0	12.00	5745.000	5725 to 5850	Pass
			10	12.00	5745.020	5725 to 5850	Pass

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		5785	30	12.00	5745.020	5725 to 5850	Pass
			40	12.00	5745.000	5725 to 5850	Pass
			50	12.00	5744.980	5725 to 5850	Pass
			20	7.65	5785.020	5725 to 5850	Pass
				12.00	5785.060	5725 to 5850	Pass
				36.00	5785.040	5725 to 5850	Pass
				-30	5785.060	5725 to 5850	Pass
				-20	5785.040	5725 to 5850	Pass
			5825	-10	5785.080	5725 to 5850	Pass
				0	5785.020	5725 to 5850	Pass
				10	5785.040	5725 to 5850	Pass
				30	5785.020	5725 to 5850	Pass
				40	5785.040	5725 to 5850	Pass
				50	5785.000	5725 to 5850	Pass
			5180	7.65	5825.000	5725 to 5850	Pass
				20	5825.040	5725 to 5850	Pass
				36.00	5825.020	5725 to 5850	Pass
				-30	5825.040	5725 to 5850	Pass
				-20	5825.020	5725 to 5850	Pass
				-10	5825.000	5725 to 5850	Pass
				0	5825.020	5725 to 5850	Pass
				10	5825.020	5725 to 5850	Pass
				30	5824.980	5725 to 5850	Pass
				40	5825.000	5725 to 5850	Pass
			5200	50	5825.000	5725 to 5850	Pass
				7.65	5180.080	5150 to 5250	Pass
				20	5180.040	5150 to 5250	Pass
				36.00	5180.040	5150 to 5250	Pass
				-30	5180.040	5150 to 5250	Pass
				-20	5180.060	5150 to 5250	Pass
				-10	5180.080	5150 to 5250	Pass
				0	5180.060	5150 to 5250	Pass
				10	5180.060	5150 to 5250	Pass
				30	5180.080	5150 to 5250	Pass
			5240	40	5180.080	5150 to 5250	Pass
				50	5180.040	5150 to 5250	Pass
				7.65	5200.040	5150 to 5250	Pass
				20	5200.080	5150 to 5250	Pass
				36.00	5200.040	5150 to 5250	Pass
				-30	5200.060	5150 to 5250	Pass
				-20	5200.060	5150 to 5250	Pass
				-10	5200.080	5150 to 5250	Pass
				0	5200.040	5150 to 5250	Pass
				10	5200.060	5150 to 5250	Pass
				30	5200.060	5150 to 5250	Pass
				40	5200.060	5150 to 5250	Pass
				50	5200.040	5150 to 5250	Pass
			802.11n (HT20)	7.65	5240.040	5150 to 5250	Pass
				20	5240.040	5150 to 5250	Pass
				36.00	5240.060	5150 to 5250	Pass
				-30	5240.040	5150 to 5250	Pass
				-20	5240.060	5150 to 5250	Pass

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		5745	-10	12.00	5240.040	5150 to 5250	Pass	
			0	12.00	5240.060	5150 to 5250	Pass	
			10	12.00	5240.040	5150 to 5250	Pass	
			30	12.00	5240.040	5150 to 5250	Pass	
			40	12.00	5240.040	5150 to 5250	Pass	
			50	12.00	5240.060	5150 to 5250	Pass	
			20	7.65	5745.040	5725 to 5850	Pass	
				12.00	5745.060	5725 to 5850	Pass	
				36.00	5745.080	5725 to 5850	Pass	
				-30	12.00	5745.020	5725 to 5850	Pass
				-20	12.00	5745.060	5725 to 5850	Pass
			-10	12.00	5745.040	5725 to 5850	Pass	
			0	12.00	5745.040	5725 to 5850	Pass	
			10	12.00	5745.040	5725 to 5850	Pass	
			30	12.00	5745.060	5725 to 5850	Pass	
			40	12.00	5745.040	5725 to 5850	Pass	
			50	12.00	5745.060	5725 to 5850	Pass	
		5785	20	7.65	5785.040	5725 to 5850	Pass	
				12.00	5785.060	5725 to 5850	Pass	
				36.00	5785.060	5725 to 5850	Pass	
				-30	12.00	5785.040	5725 to 5850	Pass
				-20	12.00	5785.080	5725 to 5850	Pass
			-10	12.00	5785.080	5725 to 5850	Pass	
			0	12.00	5785.080	5725 to 5850	Pass	
			10	12.00	5785.080	5725 to 5850	Pass	
			30	12.00	5785.080	5725 to 5850	Pass	
			40	12.00	5785.060	5725 to 5850	Pass	
			50	12.00	5785.100	5725 to 5850	Pass	
		5825	20	7.65	5825.060	5725 to 5850	Pass	
				12.00	5825.060	5725 to 5850	Pass	
				36.00	5825.040	5725 to 5850	Pass	
				-30	12.00	5825.040	5725 to 5850	Pass
				-20	12.00	5825.040	5725 to 5850	Pass
			-10	12.00	5825.060	5725 to 5850	Pass	
			0	12.00	5825.040	5725 to 5850	Pass	
			10	12.00	5825.020	5725 to 5850	Pass	
			30	12.00	5825.060	5725 to 5850	Pass	
			40	12.00	5825.060	5725 to 5850	Pass	
			50	12.00	5825.040	5725 to 5850	Pass	
802.11n (HT40)	MIMO	5190	20	7.65	5190.160	5150 to 5250	Pass	
				12.00	5190.120	5150 to 5250	Pass	
				36.00	5190.080	5150 to 5250	Pass	
				-30	12.00	5190.160	5150 to 5250	Pass
				-20	12.00	5190.160	5150 to 5250	Pass
			-10	12.00	5190.120	5150 to 5250	Pass	
			0	12.00	5190.120	5150 to 5250	Pass	
			10	12.00	5190.120	5150 to 5250	Pass	
			30	12.00	5190.120	5150 to 5250	Pass	
			40	12.00	5190.120	5150 to 5250	Pass	
			50	12.00	5190.160	5150 to 5250	Pass	
		5230	20	7.65	5230.160	5150 to 5250	Pass	
				12.00	5230.120	5150 to 5250	Pass	

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				36.00	5230.120	5150 to 5250	Pass	
			-30	12.00	5230.120	5150 to 5250	Pass	
			-20	12.00	5230.160	5150 to 5250	Pass	
			-10	12.00	5230.080	5150 to 5250	Pass	
			0	12.00	5230.160	5150 to 5250	Pass	
			10	12.00	5230.120	5150 to 5250	Pass	
			30	12.00	5230.120	5150 to 5250	Pass	
			40	12.00	5230.120	5150 to 5250	Pass	
			50	12.00	5230.120	5150 to 5250	Pass	
		5755		7.65	5755.080	5725 to 5850	Pass	
		5755	20	12.00	5755.120	5725 to 5850	Pass	
		5755	20	36.00	5755.120	5725 to 5850	Pass	
		5755	20	-30	12.00	5755.040	5725 to 5850	Pass
		5755	20	-20	12.00	5755.120	5725 to 5850	Pass
		5755	20	-10	12.00	5755.160	5725 to 5850	Pass
		5755	20	0	12.00	5755.040	5725 to 5850	Pass
		5755	20	10	12.00	5755.000	5725 to 5850	Pass
		5755	20	30	12.00	5755.160	5725 to 5850	Pass
		5755	20	40	12.00	5755.120	5725 to 5850	Pass
		5755	20	50	12.00	5755.040	5725 to 5850	Pass
		5795		7.65	5795.160	5725 to 5850	Pass	
		5795	20	12.00	5795.120	5725 to 5850	Pass	
		5795	20	36.00	5795.160	5725 to 5850	Pass	
		5795	20	-30	12.00	5795.160	5725 to 5850	Pass
		5795	20	-20	12.00	5795.160	5725 to 5850	Pass
		5795	20	-10	12.00	5795.160	5725 to 5850	Pass
		5795	20	0	12.00	5795.120	5725 to 5850	Pass
		5795	20	10	12.00	5795.120	5725 to 5850	Pass
		5795	20	30	12.00	5795.120	5725 to 5850	Pass
		5795	20	40	12.00	5795.160	5725 to 5850	Pass
		5795	20	50	12.00	5795.160	5725 to 5850	Pass
		5180		7.65	5180.080	5150 to 5250	Pass	
		5180	20	12.00	5180.040	5150 to 5250	Pass	
		5180	20	36.00	5180.040	5150 to 5250	Pass	
		5180	20	-30	12.00	5180.080	5150 to 5250	Pass
		5180	20	-20	12.00	5180.040	5150 to 5250	Pass
		5180	20	-10	12.00	5180.080	5150 to 5250	Pass
		5180	20	0	12.00	5180.080	5150 to 5250	Pass
		5180	20	10	12.00	5180.020	5150 to 5250	Pass
		5180	20	30	12.00	5180.040	5150 to 5250	Pass
		5180	20	40	12.00	5180.100	5150 to 5250	Pass
		5180	20	50	12.00	5180.080	5150 to 5250	Pass
		5200		7.65	5200.040	5150 to 5250	Pass	
		5200	20	12.00	5200.100	5150 to 5250	Pass	
		5200	20	36.00	5200.040	5150 to 5250	Pass	
		5200	20	-30	12.00	5200.040	5150 to 5250	Pass
		5200	20	-20	12.00	5200.060	5150 to 5250	Pass
		5200	20	-10	12.00	5200.020	5150 to 5250	Pass
		5200	20	0	12.00	5200.040	5150 to 5250	Pass
		5200	20	10	12.00	5200.020	5150 to 5250	Pass
		5200	20	30	12.00	5200.020	5150 to 5250	Pass
		5200	20	40	12.00	5200.040	5150 to 5250	Pass

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			50	12.00	5200.060	5150 to 5250	Pass
5240			20	7.65	5240.020	5150 to 5250	Pass
				12.00	5240.000	5150 to 5250	Pass
				36.00	5240.040	5150 to 5250	Pass
				-30	5240.080	5150 to 5250	Pass
				-20	5240.040	5150 to 5250	Pass
				-10	5240.040	5150 to 5250	Pass
				0	5240.060	5150 to 5250	Pass
				10	5240.020	5150 to 5250	Pass
				30	5240.040	5150 to 5250	Pass
				40	5240.060	5150 to 5250	Pass
5745			20	7.65	5745.040	5725 to 5850	Pass
				12.00	5745.040	5725 to 5850	Pass
				36.00	5745.040	5725 to 5850	Pass
				-30	5745.060	5725 to 5850	Pass
				-20	5745.040	5725 to 5850	Pass
				-10	5745.040	5725 to 5850	Pass
				0	5745.040	5725 to 5850	Pass
				10	5745.040	5725 to 5850	Pass
				30	5745.060	5725 to 5850	Pass
				40	5745.060	5725 to 5850	Pass
5785			20	7.65	5785.060	5725 to 5850	Pass
				12.00	5785.060	5725 to 5850	Pass
				36.00	5785.060	5725 to 5850	Pass
				-30	5785.100	5725 to 5850	Pass
				-20	5785.100	5725 to 5850	Pass
				-10	5785.060	5725 to 5850	Pass
				0	5785.040	5725 to 5850	Pass
				10	5785.060	5725 to 5850	Pass
				30	5785.040	5725 to 5850	Pass
				40	5785.100	5725 to 5850	Pass
5825			20	7.65	5825.040	5725 to 5850	Pass
				12.00	5825.020	5725 to 5850	Pass
				36.00	5825.020	5725 to 5850	Pass
				-30	5825.020	5725 to 5850	Pass
				-20	5825.040	5725 to 5850	Pass
				-10	5825.060	5725 to 5850	Pass
				0	5825.060	5725 to 5850	Pass
				10	5825.080	5725 to 5850	Pass
				30	5825.040	5725 to 5850	Pass
				40	5825.080	5725 to 5850	Pass
802.11ac (VHT40)	MIMO	5190	20	7.65	5190.080	5150 to 5250	Pass
				12.00	5190.120	5150 to 5250	Pass
				36.00	5190.160	5150 to 5250	Pass
				-30	5190.120	5150 to 5250	Pass
				-20	5190.080	5150 to 5250	Pass
				-10	5190.040	5150 to 5250	Pass
				0	5190.080	5150 to 5250	Pass

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			10	12.00	5190.120	5150 to 5250	Pass	
			30	12.00	5190.120	5150 to 5250	Pass	
			40	12.00	5190.120	5150 to 5250	Pass	
			50	12.00	5190.080	5150 to 5250	Pass	
			5230	7.65	5230.040	5150 to 5250	Pass	
				20	12.00	5230.080	5150 to 5250	Pass
				36.00	5230.080	5150 to 5250	Pass	
				-30	12.00	5230.120	5150 to 5250	Pass
				-20	12.00	5230.080	5150 to 5250	Pass
				-10	12.00	5230.080	5150 to 5250	Pass
				0	12.00	5230.040	5150 to 5250	Pass
				10	12.00	5230.040	5150 to 5250	Pass
				30	12.00	5230.080	5150 to 5250	Pass
				40	12.00	5230.040	5150 to 5250	Pass
				50	12.00	5230.000	5150 to 5250	Pass
			5755	7.65	5755.120	5725 to 5850	Pass	
				20	12.00	5755.000	5725 to 5850	Pass
				36.00	5755.080	5725 to 5850	Pass	
				-30	12.00	5755.080	5725 to 5850	Pass
				-20	12.00	5755.080	5725 to 5850	Pass
				-10	12.00	5755.040	5725 to 5850	Pass
				0	12.00	5755.080	5725 to 5850	Pass
				10	12.00	5755.080	5725 to 5850	Pass
				30	12.00	5755.080	5725 to 5850	Pass
				40	12.00	5755.080	5725 to 5850	Pass
				50	12.00	5755.040	5725 to 5850	Pass
			5795	7.65	5795.120	5725 to 5850	Pass	
				20	12.00	5795.120	5725 to 5850	Pass
				36.00	5795.160	5725 to 5850	Pass	
				-30	12.00	5795.160	5725 to 5850	Pass
				-20	12.00	5795.120	5725 to 5850	Pass
				-10	12.00	5795.160	5725 to 5850	Pass
				0	12.00	5795.080	5725 to 5850	Pass
				10	12.00	5795.120	5725 to 5850	Pass
				30	12.00	5795.160	5725 to 5850	Pass
				40	12.00	5795.120	5725 to 5850	Pass
				50	12.00	5795.160	5725 to 5850	Pass
802.11ac (VHT80)	MIMO	5210	20	7.65	5210.150	5150 to 5250	Pass	
				12.00	5210.075	5150 to 5250	Pass	
				36.00	5210.150	5150 to 5250	Pass	
				-30	12.00	5210.075	5150 to 5250	Pass
				-20	12.00	5210.075	5150 to 5250	Pass
				-10	12.00	5210.075	5150 to 5250	Pass
				0	12.00	5210.150	5150 to 5250	Pass
				10	12.00	5210.150	5150 to 5250	Pass
				30	12.00	5210.075	5150 to 5250	Pass
				40	12.00	5210.150	5150 to 5250	Pass
				50	12.00	5210.150	5150 to 5250	Pass
		5775	20	7.65	5775.075	5725 to 5850	Pass	
				12.00	5775.075	5725 to 5850	Pass	
				36.00	5775.150	5725 to 5850	Pass	
				-30	12.00	5775.075	5725 to 5850	Pass

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			-20	12.00	5775.075	5725 to 5850	Pass
			-10	12.00	5775.075	5725 to 5850	Pass
			0	12.00	5775.000	5725 to 5850	Pass
			10	12.00	5775.075	5725 to 5850	Pass
			30	12.00	5775.075	5725 to 5850	Pass
			40	12.00	5775.075	5725 to 5850	Pass
			50	12.00	5775.075	5725 to 5850	Pass

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