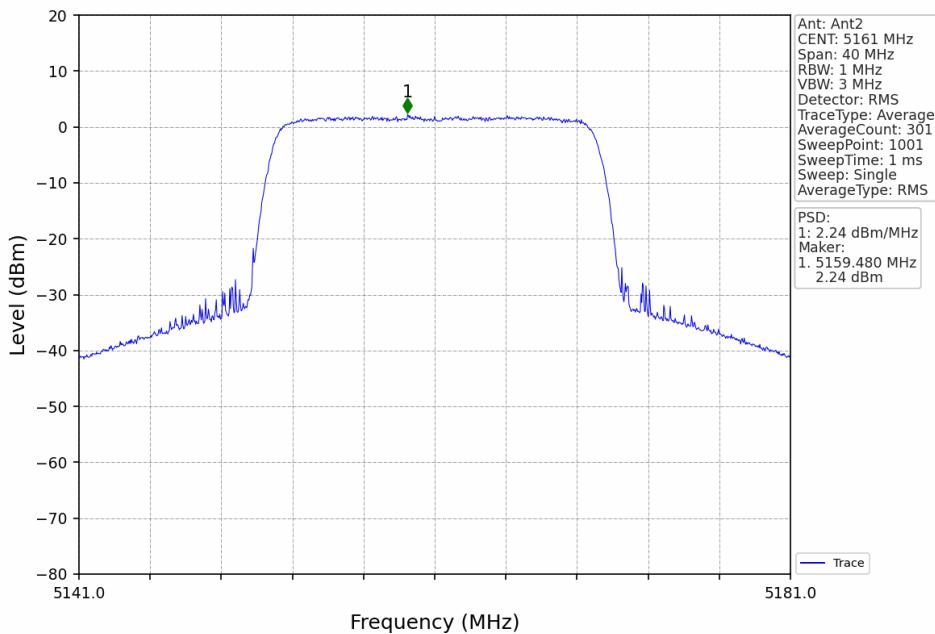
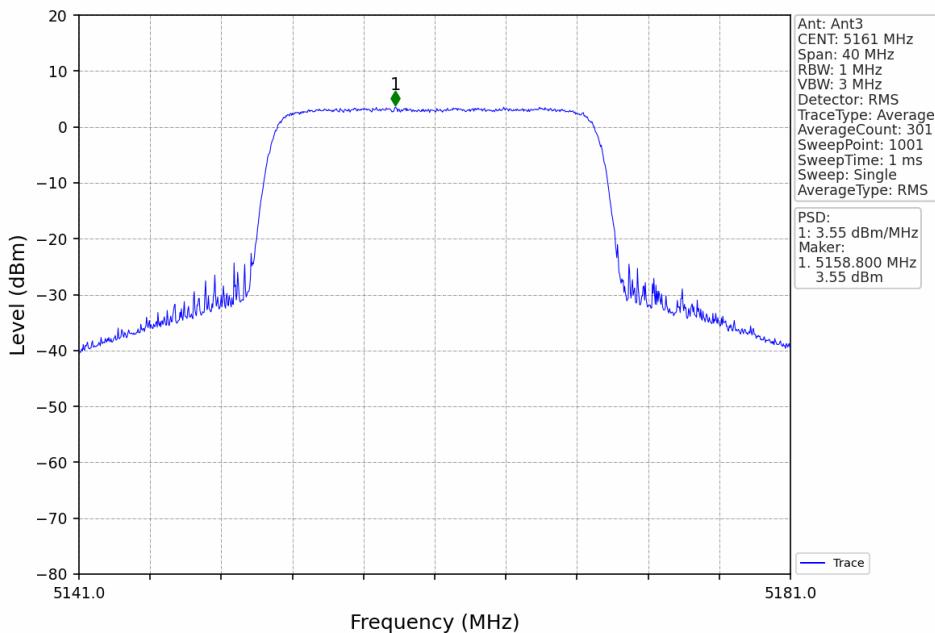
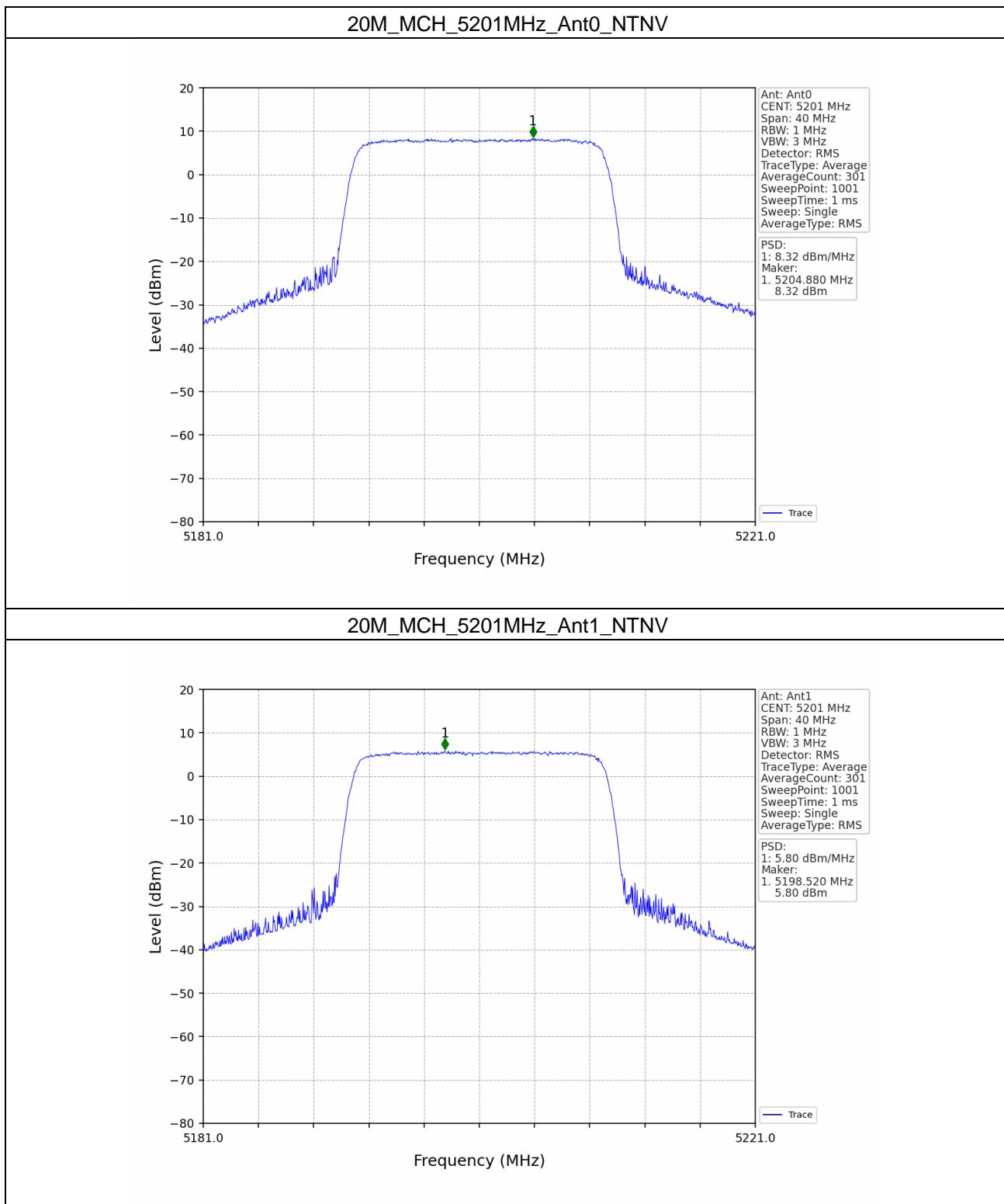
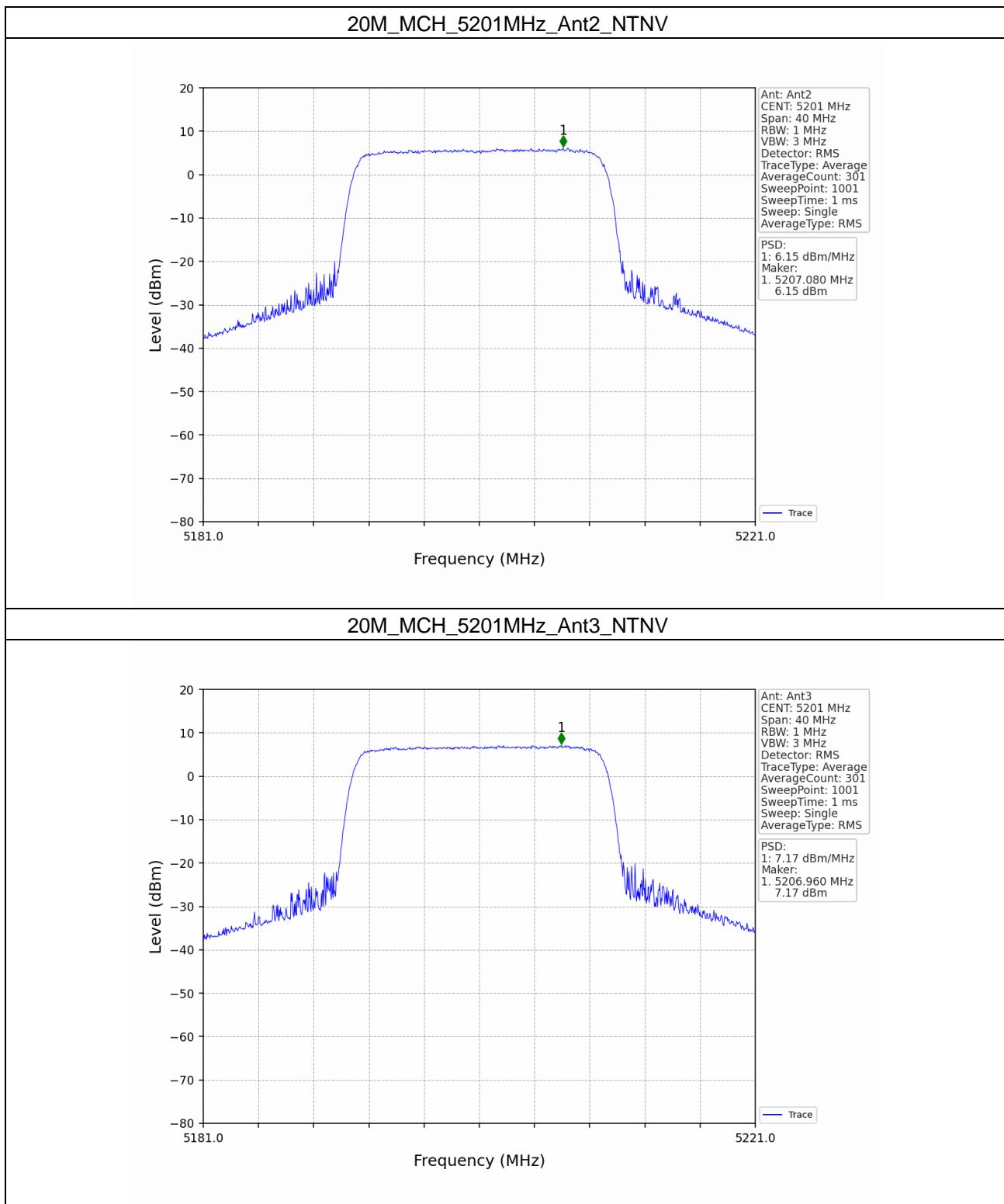


**20M\_LCH\_5161MHz\_Ant2\_NTNV****20M\_LCH\_5161MHz\_Ant3\_NTNV**



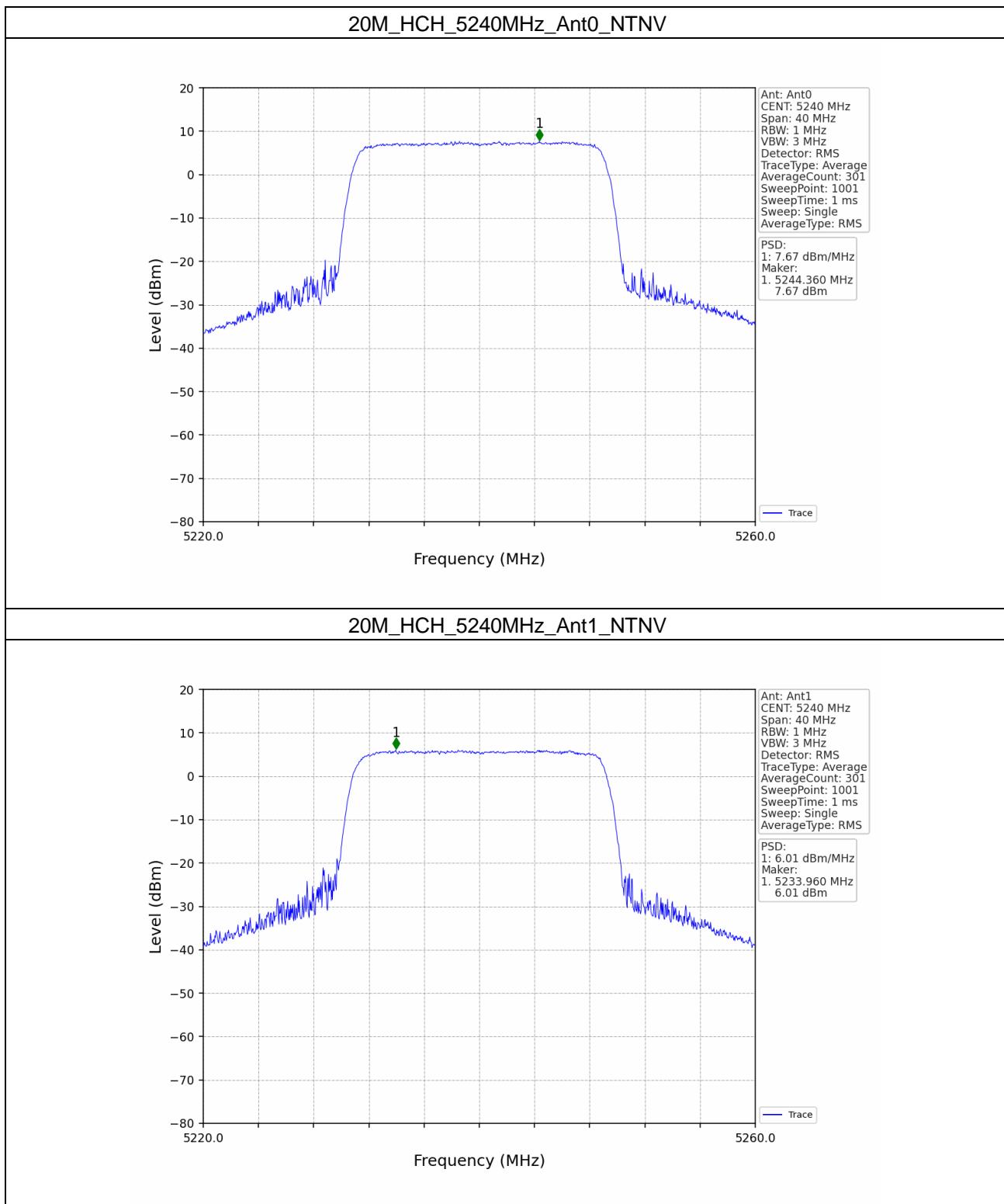
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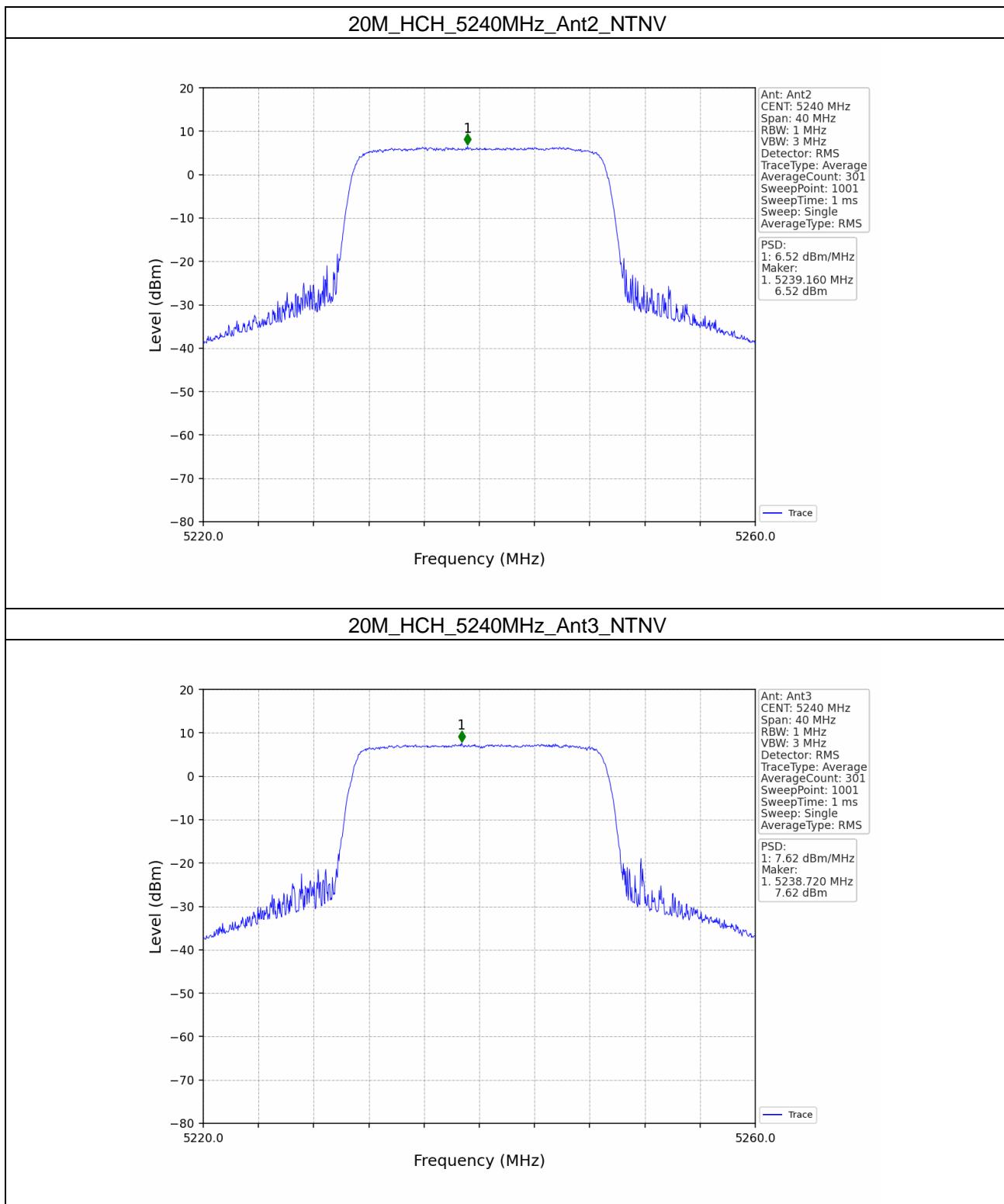
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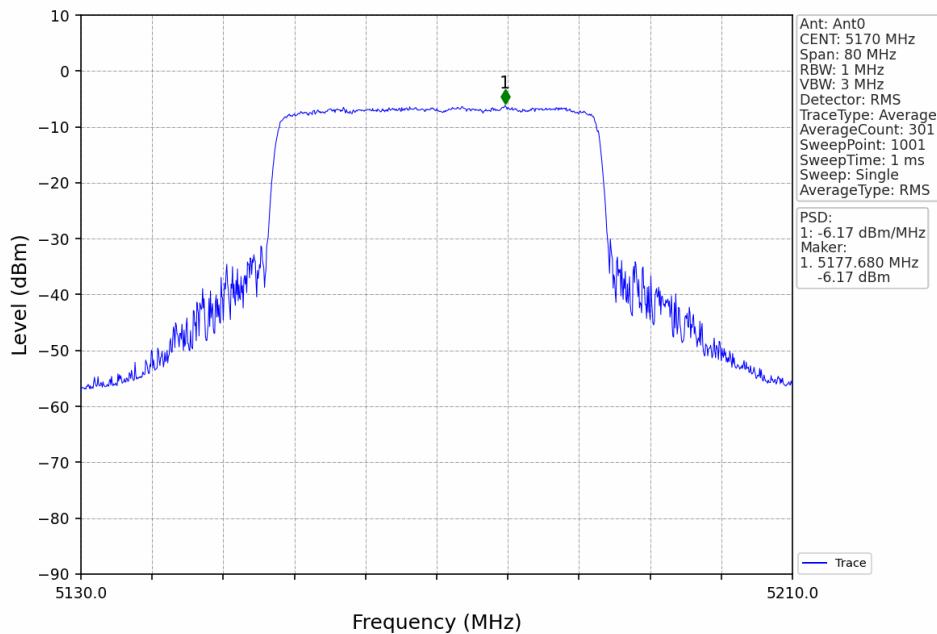
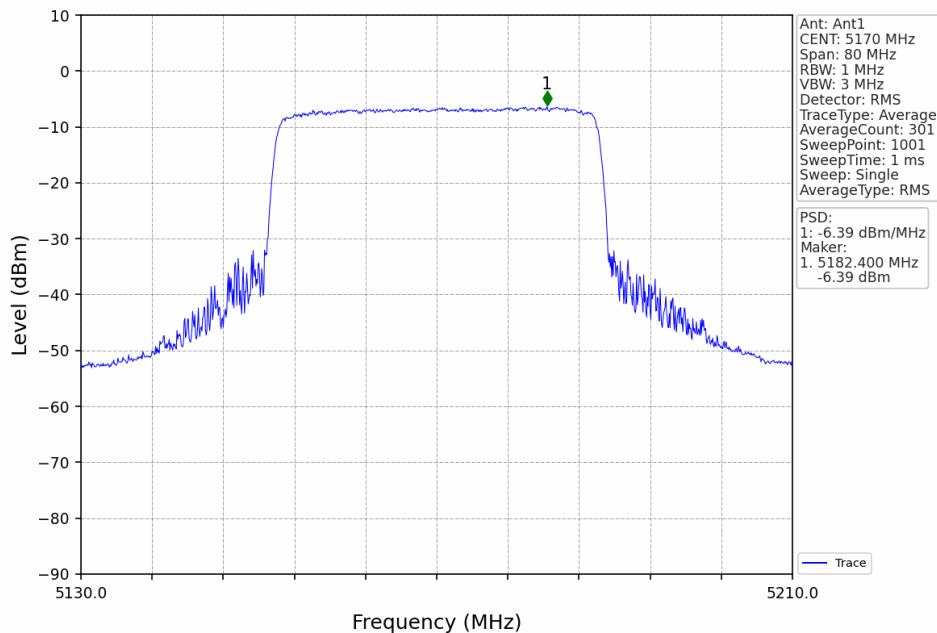
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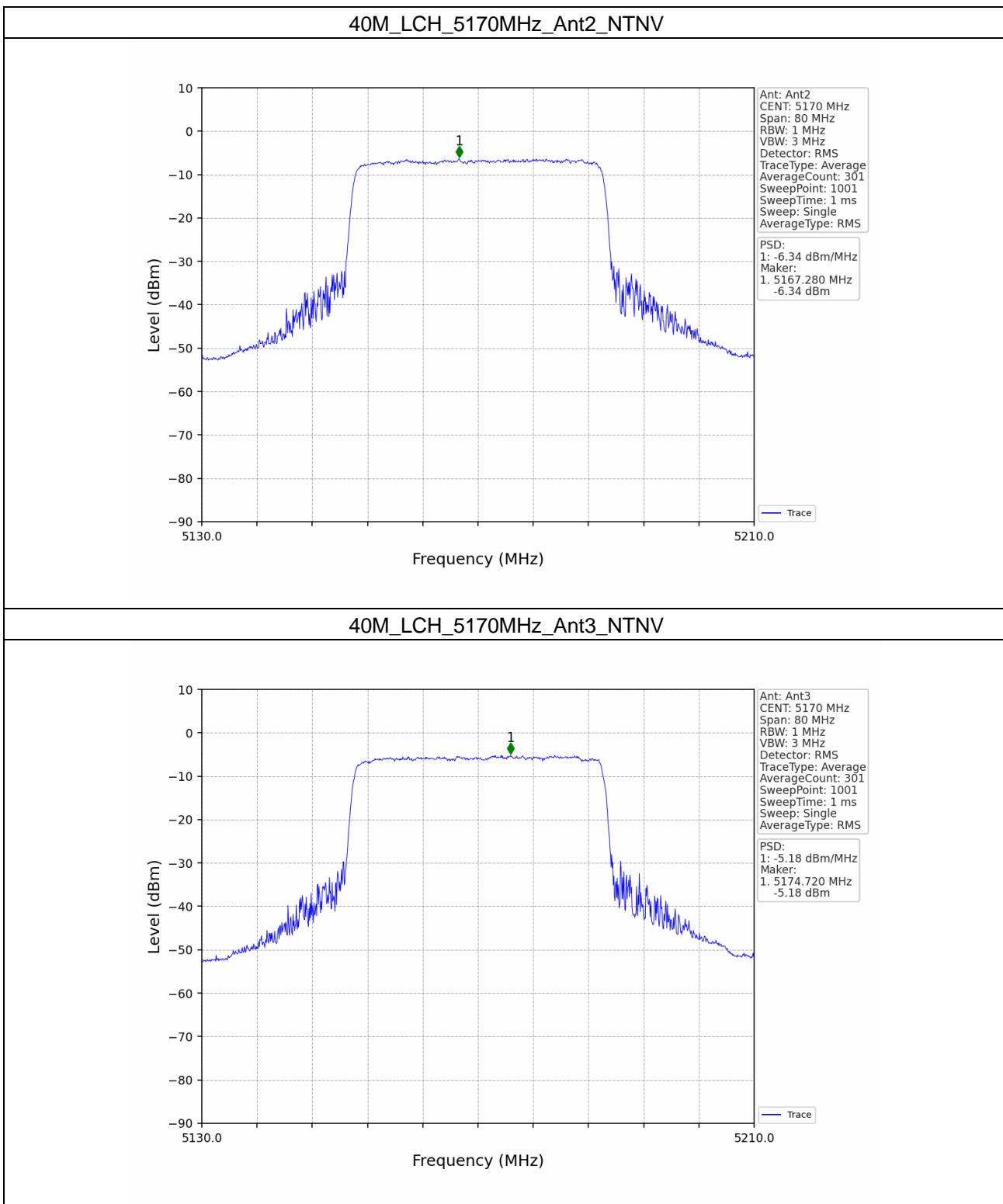


**40M\_LCH\_5170MHz\_Ant0\_NTNV****40M\_LCH\_5170MHz\_Ant1\_NTNV**

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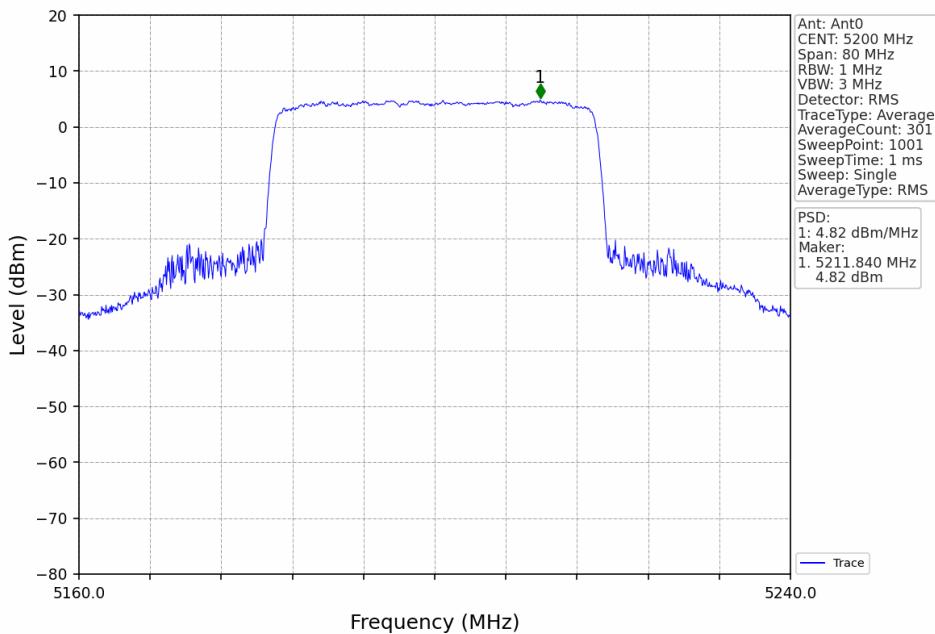
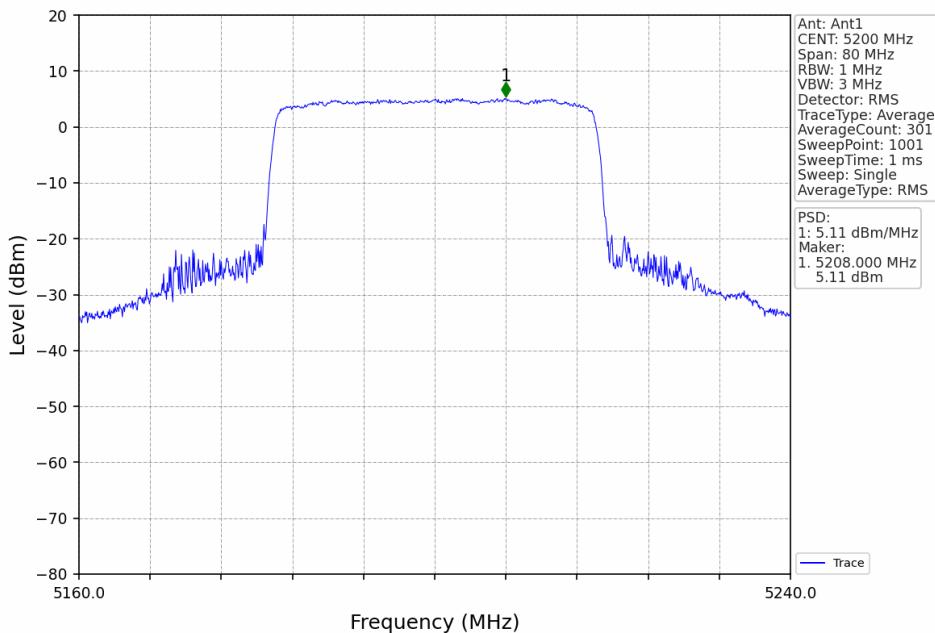
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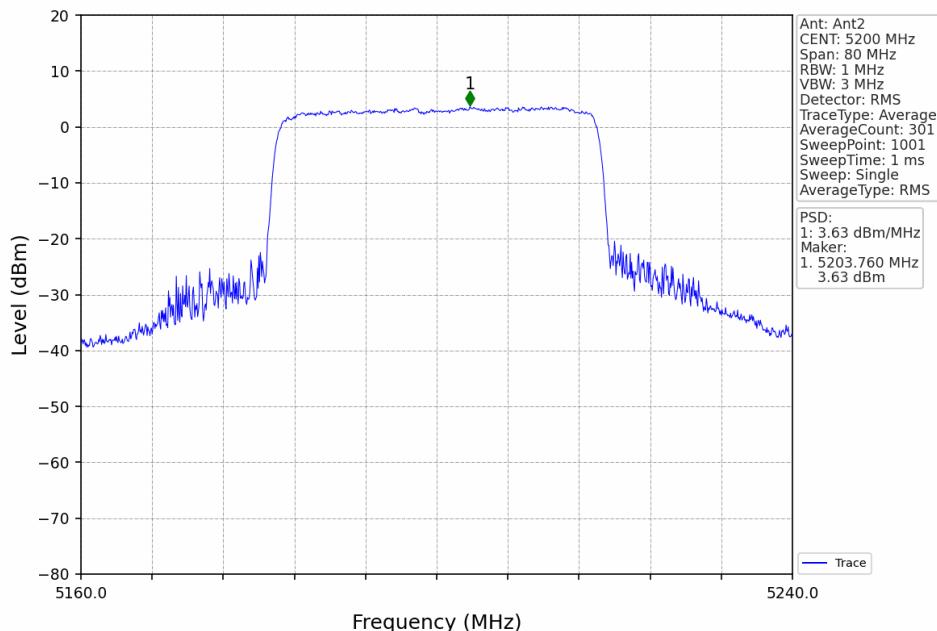
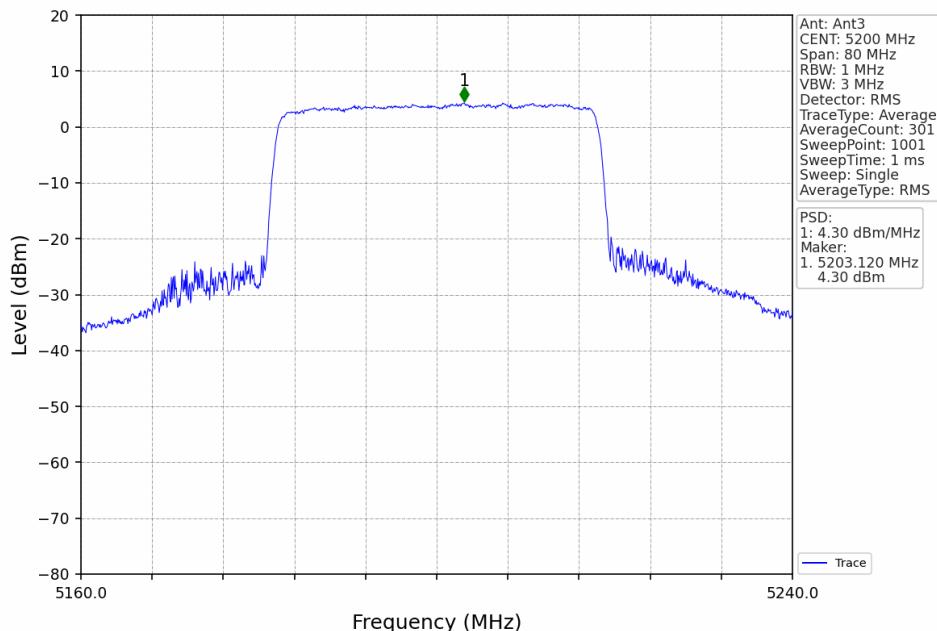
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**40M\_MCH\_5200MHz\_Ant0\_NTNV****40M\_MCH\_5200MHz\_Ant1\_NTNV**

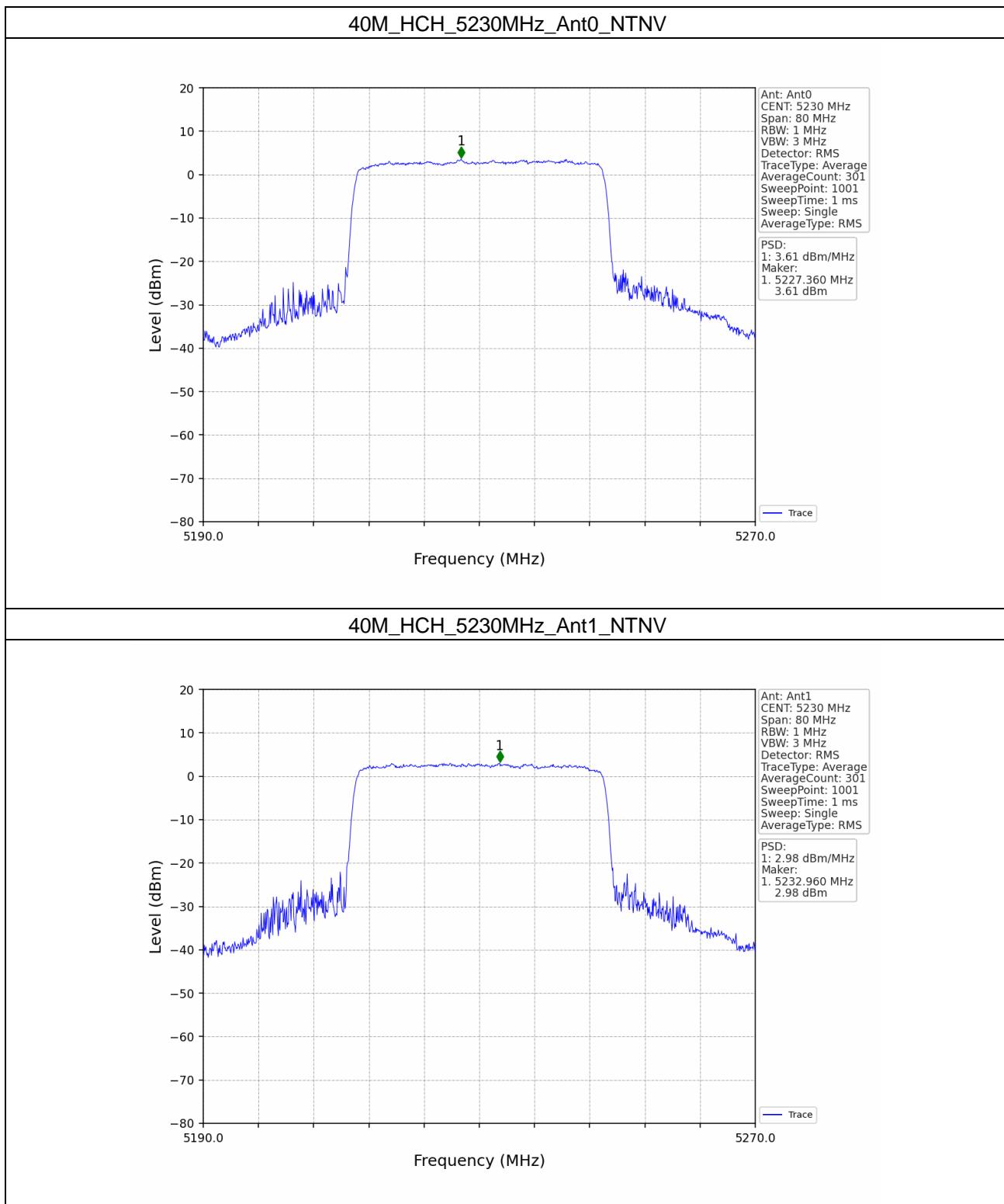
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**40M\_MCH\_5200MHz\_Ant2\_NTNV****40M\_MCH\_5200MHz\_Ant3\_NTNV**

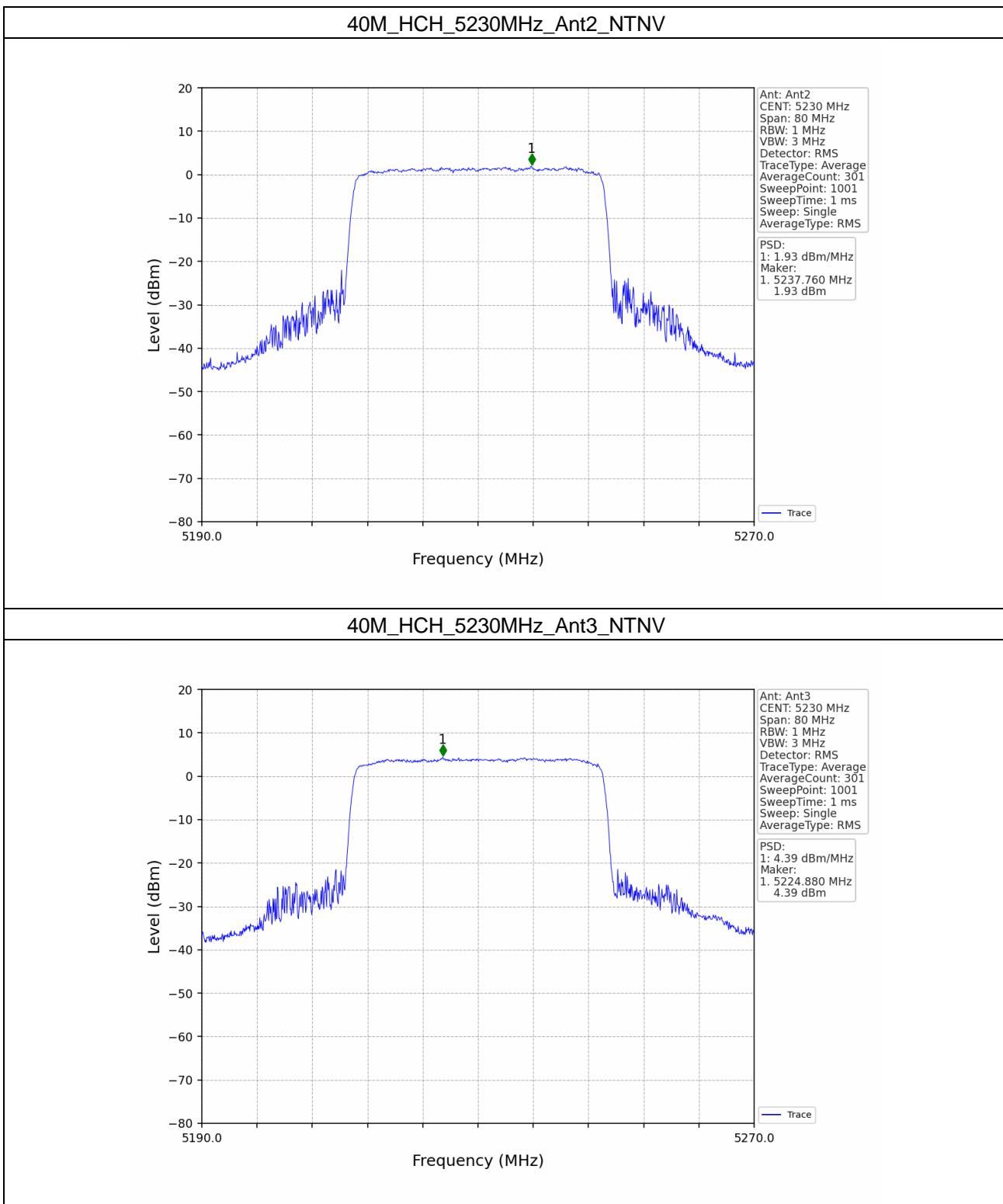
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## 5. Frequency Stability

### 5.1 Ant0

#### 5.1.1 Test Result

Ant0							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
10M	SISO	5157	20	3.06	5157.010	5150 to 5250	Pass
				3.60	5157.070	5150 to 5250	Pass
				4.14	5157.060	5150 to 5250	Pass
			-10	3.60	5156.980	5150 to 5250	Pass
			-5	3.60	5157.010	5150 to 5250	Pass
			0	3.60	5157.070	5150 to 5250	Pass
			5	3.60	5157.000	5150 to 5250	Pass
			10	3.60	5157.020	5150 to 5250	Pass
			20	3.60	5157.040	5150 to 5250	Pass
			30	3.60	5157.030	5150 to 5250	Pass
			40	3.60	5157.010	5150 to 5250	Pass
		5201	20	3.06	5201.020	5150 to 5250	Pass
				3.60	5201.020	5150 to 5250	Pass
				4.14	5201.030	5150 to 5250	Pass
			-10	3.60	5201.010	5150 to 5250	Pass
			-5	3.60	5201.080	5150 to 5250	Pass
			0	3.60	5201.030	5150 to 5250	Pass
			5	3.60	5201.050	5150 to 5250	Pass
			10	3.60	5201.050	5150 to 5250	Pass
			20	3.60	5201.020	5150 to 5250	Pass
			30	3.60	5200.980	5150 to 5250	Pass
			40	3.60	5201.010	5150 to 5250	Pass
		5245	20	3.06	5245.040	5150 to 5250	Pass
				3.60	5245.020	5150 to 5250	Pass
				4.14	5245.040	5150 to 5250	Pass
			-10	3.60	5245.010	5150 to 5250	Pass
			-5	3.60	5245.050	5150 to 5250	Pass
			0	3.60	5245.030	5150 to 5250	Pass
			5	3.60	5244.970	5150 to 5250	Pass
			10	3.60	5245.070	5150 to 5250	Pass

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SZEMC-TRF-01 Rev. A/0 Aug01,2022

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			20	3.60	5245.020	5150 to 5250	Pass
			30	3.60	5245.040	5150 to 5250	Pass
			40	3.60	5245.010	5150 to 5250	Pass
20M	SISO	5161	20	3.06	5161.060	5150 to 5250	Pass
				3.60	5161.060	5150 to 5250	Pass
				4.14	5161.060	5150 to 5250	Pass
				-10	5161.040	5150 to 5250	Pass
				-5	5161.060	5150 to 5250	Pass
				0	5161.060	5150 to 5250	Pass
				5	5161.040	5150 to 5250	Pass
				10	5161.040	5150 to 5250	Pass
				20	5161.060	5150 to 5250	Pass
				30	5161.060	5150 to 5250	Pass
			20	40	5161.060	5150 to 5250	Pass
				3.06	5201.040	5150 to 5250	Pass
				3.60	5201.040	5150 to 5250	Pass
				4.14	5201.060	5150 to 5250	Pass
				-10	5201.060	5150 to 5250	Pass
				-5	5201.060	5150 to 5250	Pass
				0	5201.060	5150 to 5250	Pass
				5	5201.060	5150 to 5250	Pass
				10	5201.040	5150 to 5250	Pass
				20	5201.060	5150 to 5250	Pass
				30	5201.020	5150 to 5250	Pass
				40	5201.040	5150 to 5250	Pass
40M	SISO	5170	20	3.06	5240.060	5150 to 5250	Pass
				3.60	5240.060	5150 to 5250	Pass
				4.14	5240.060	5150 to 5250	Pass
				-10	5240.060	5150 to 5250	Pass
				-5	5240.060	5150 to 5250	Pass
				0	5240.060	5150 to 5250	Pass
				5	5240.060	5150 to 5250	Pass
				10	5240.060	5150 to 5250	Pass
				20	5240.060	5150 to 5250	Pass
				30	5240.060	5150 to 5250	Pass
				40	5240.040	5150 to 5250	Pass
			-10	3.06	5170.120	5150 to 5250	Pass
				3.60	5170.080	5150 to 5250	Pass
				4.14	5170.120	5150 to 5250	Pass
				-10	3.60	5170.120	5150 to 5250

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		-5	3.60	5170.120	5150 to 5250	Pass
		0	3.60	5170.120	5150 to 5250	Pass
		5	3.60	5170.120	5150 to 5250	Pass
		10	3.60	5170.080	5150 to 5250	Pass
		20	3.60	5170.120	5150 to 5250	Pass
		30	3.60	5170.120	5150 to 5250	Pass
		40	3.60	5170.120	5150 to 5250	Pass
	5200	20	3.06	5200.120	5150 to 5250	Pass
			3.60	5200.120	5150 to 5250	Pass
			4.14	5200.120	5150 to 5250	Pass
		-10	3.60	5200.120	5150 to 5250	Pass
		-5	3.60	5200.120	5150 to 5250	Pass
		0	3.60	5200.120	5150 to 5250	Pass
		5	3.60	5200.120	5150 to 5250	Pass
		10	3.60	5200.120	5150 to 5250	Pass
		20	3.60	5200.120	5150 to 5250	Pass
		30	3.60	5200.080	5150 to 5250	Pass
		40	3.60	5200.120	5150 to 5250	Pass
	5230	20	3.06	5230.120	5150 to 5250	Pass
			3.60	5230.120	5150 to 5250	Pass
			4.14	5230.120	5150 to 5250	Pass
		-10	3.60	5230.120	5150 to 5250	Pass
		-5	3.60	5230.120	5150 to 5250	Pass
		0	3.60	5230.120	5150 to 5250	Pass
		5	3.60	5230.120	5150 to 5250	Pass
		10	3.60	5230.120	5150 to 5250	Pass
		20	3.60	5230.120	5150 to 5250	Pass
		30	3.60	5230.120	5150 to 5250	Pass
		40	3.60	5230.120	5150 to 5250	Pass

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**5.1G SDR MIMO Mode****1. Duty Cycle****1.1 Ant1****1.1.1 Test Result**

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
10M	MIMO	5157	100.000	100.000	100.00	0.00	0.00
		5201	100.000	100.000	100.00	0.00	0.00
		5245	100.000	100.000	100.00	0.00	0.00
20M	MIMO	5161	100.000	100.000	100.00	0.00	0.00
		5201	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
40M	MIMO	5170	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00

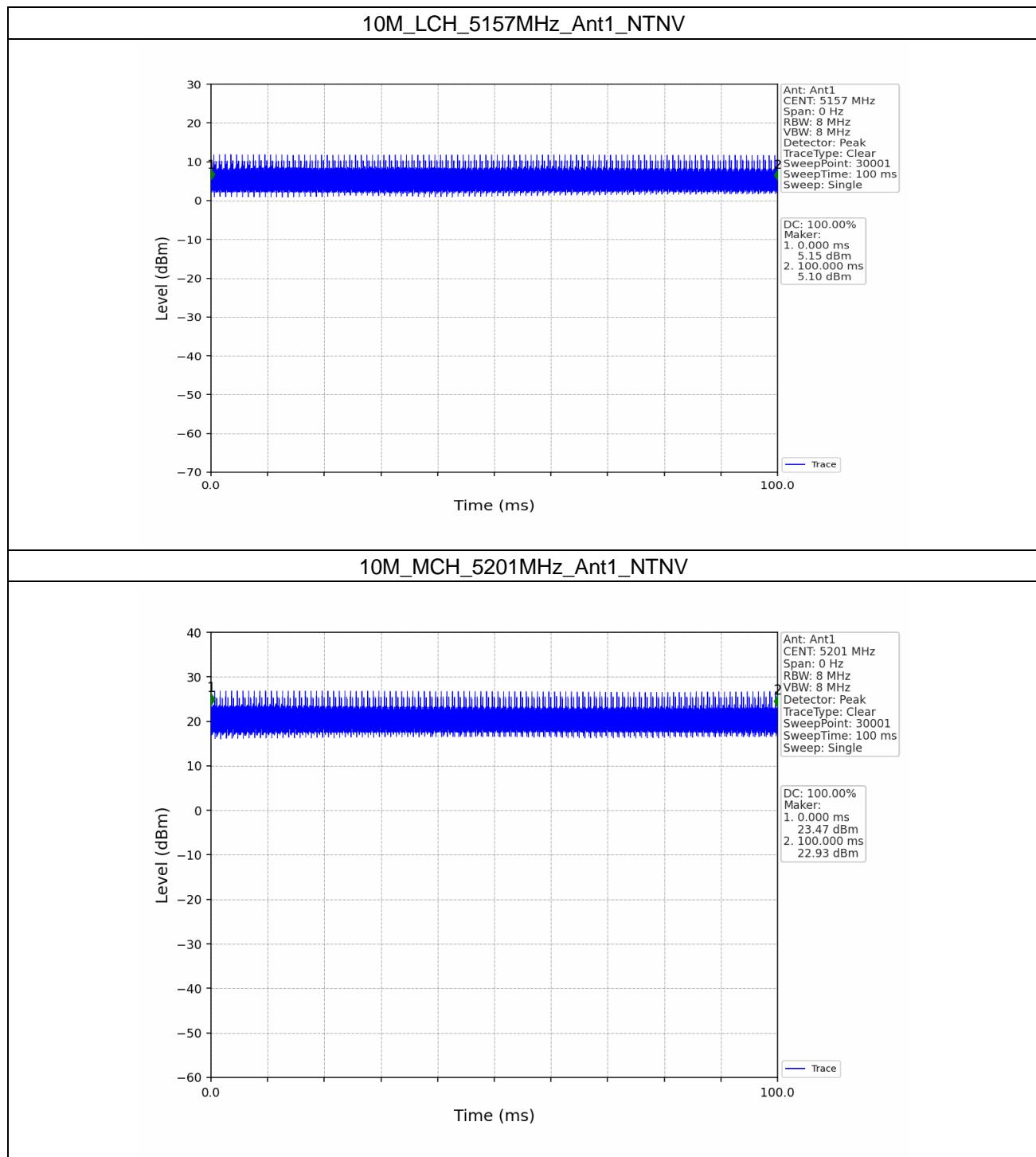
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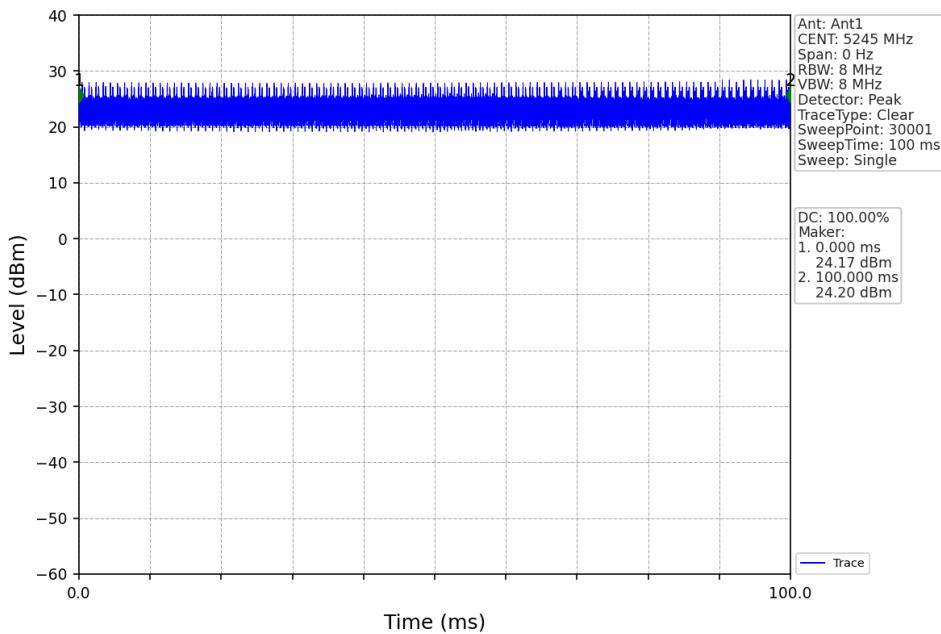
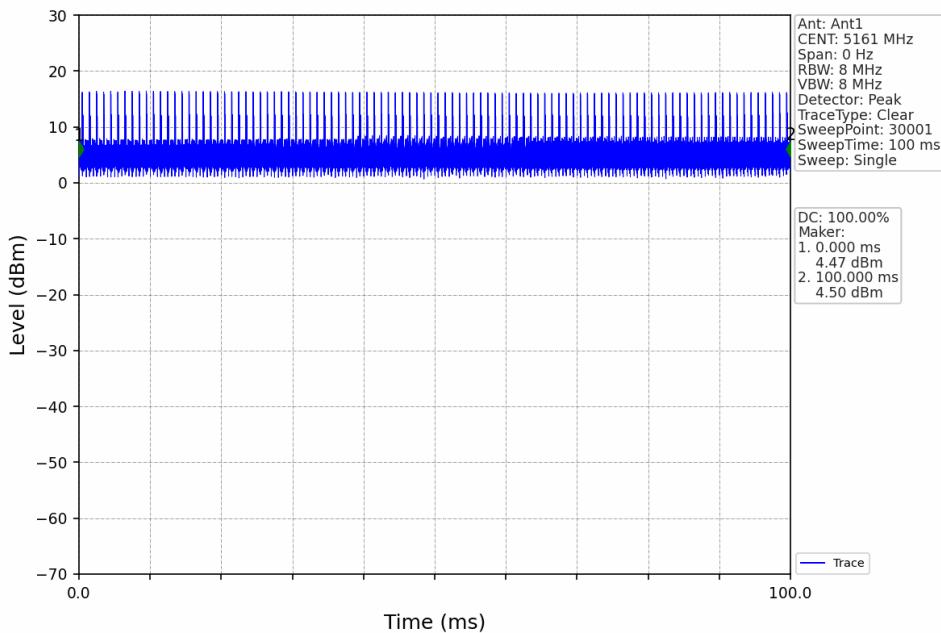
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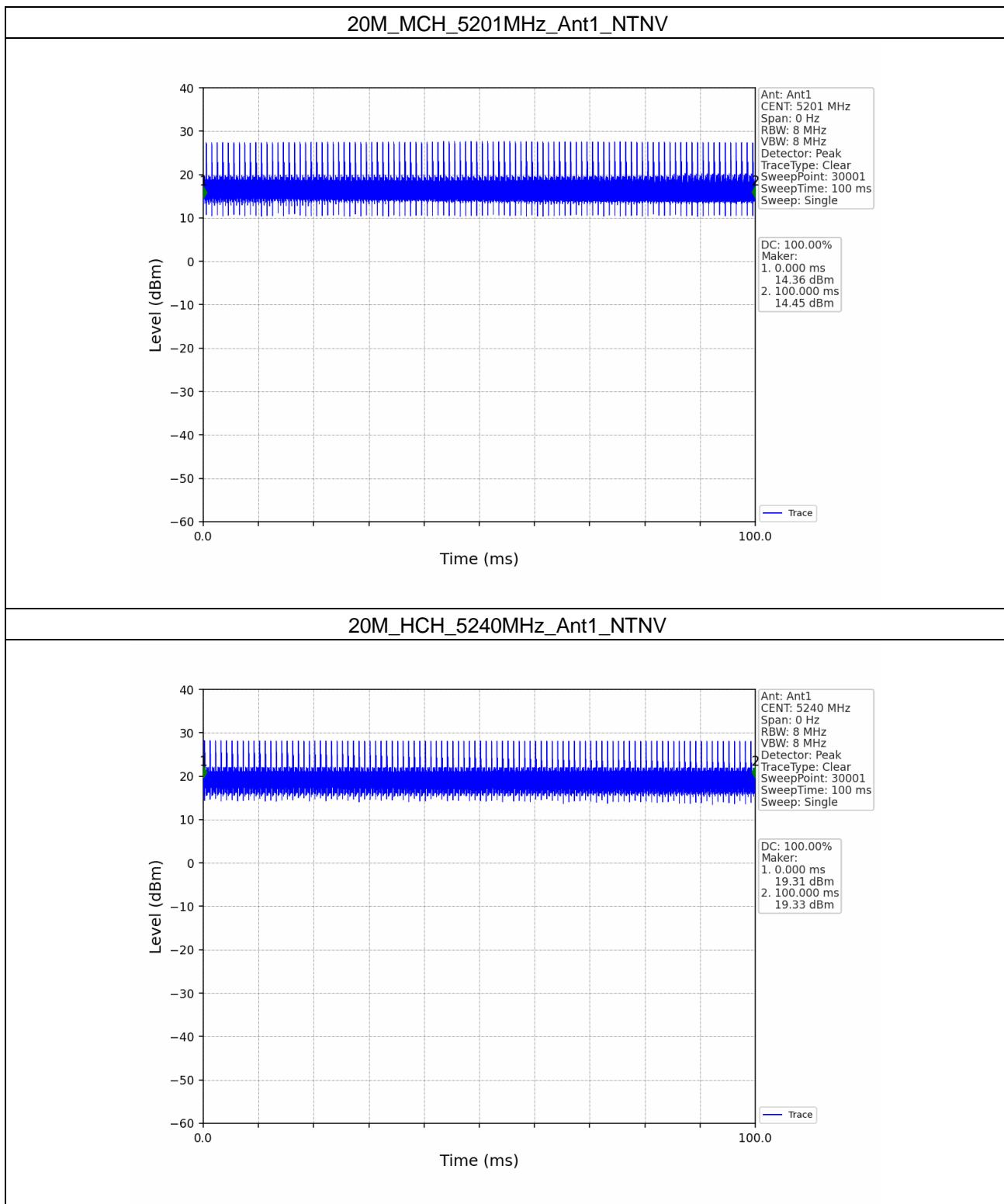
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**1.1.2 Test Graph**

**10M\_HCH\_5245MHz\_Ant1\_NTNV****20M\_LCH\_5161MHz\_Ant1\_NTNV**

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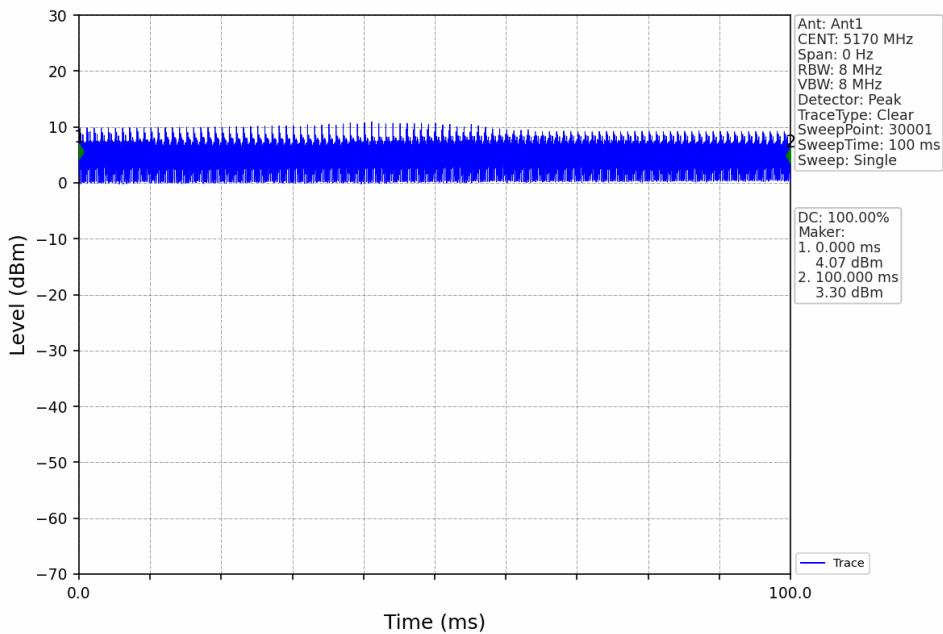
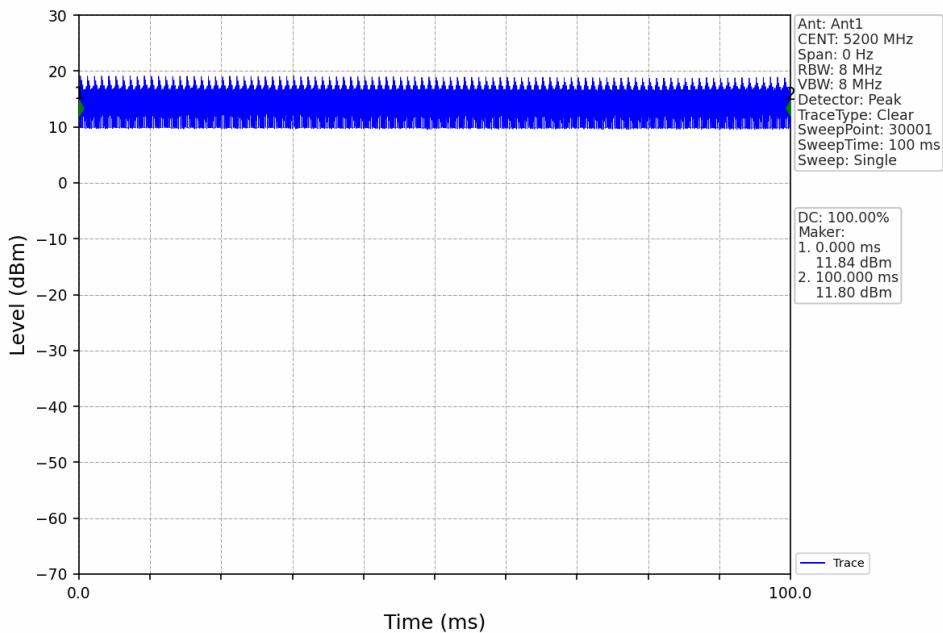
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**40M\_LCH\_5170MHz\_Ant1\_NTNV****40M\_MCH\_5200MHz\_Ant1\_NTNV**

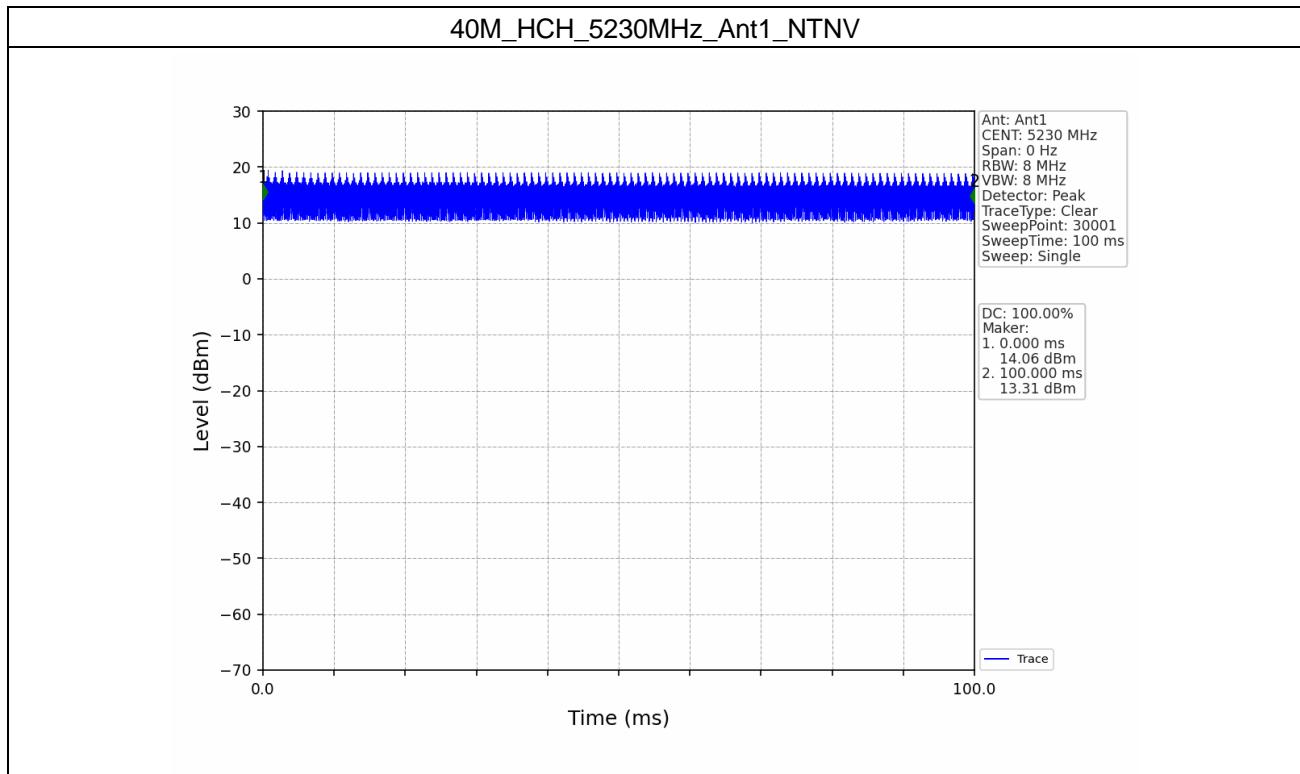
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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
10M	MIMO	5157	1	9.226	Pass
		5201	1	9.256	Pass
		5245	1	9.271	Pass
20M	MIMO	5161	1	17.899	Pass
		5201	1	17.974	Pass
		5240	1	18.372	Pass
40M	MIMO	5170	1	41.211	Pass
		5200	1	42.578	Pass
		5230	1	43.390	Pass



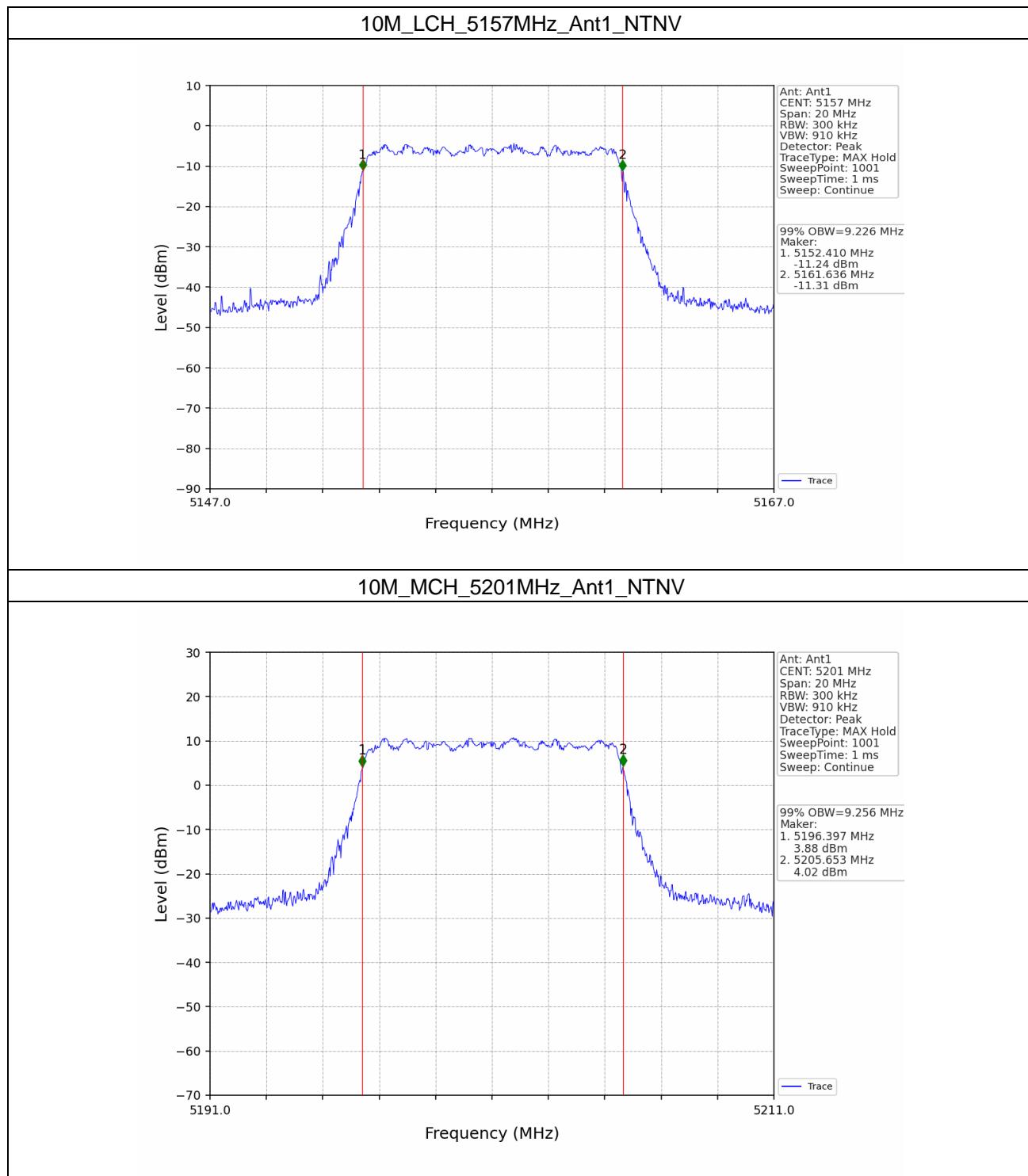
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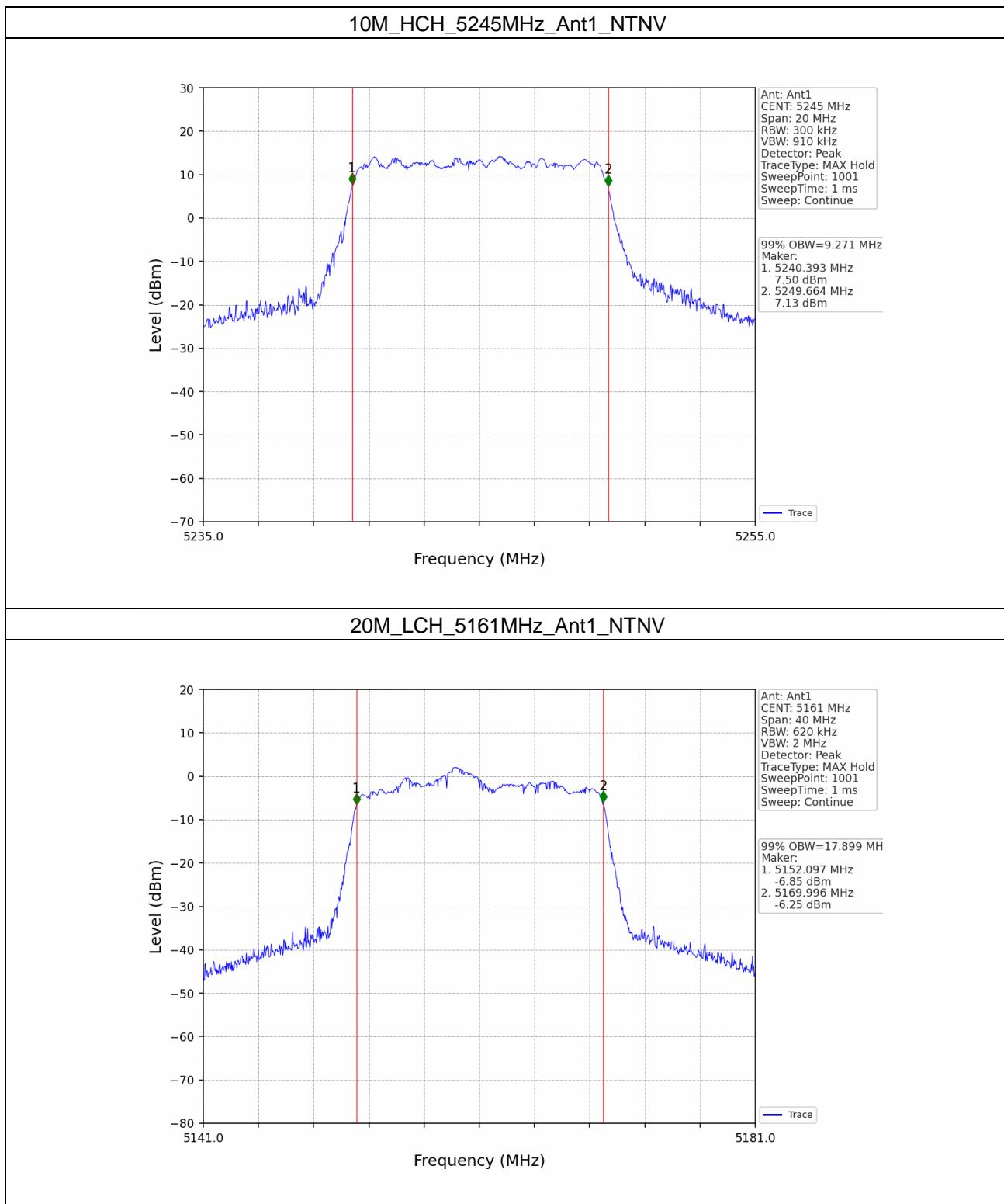
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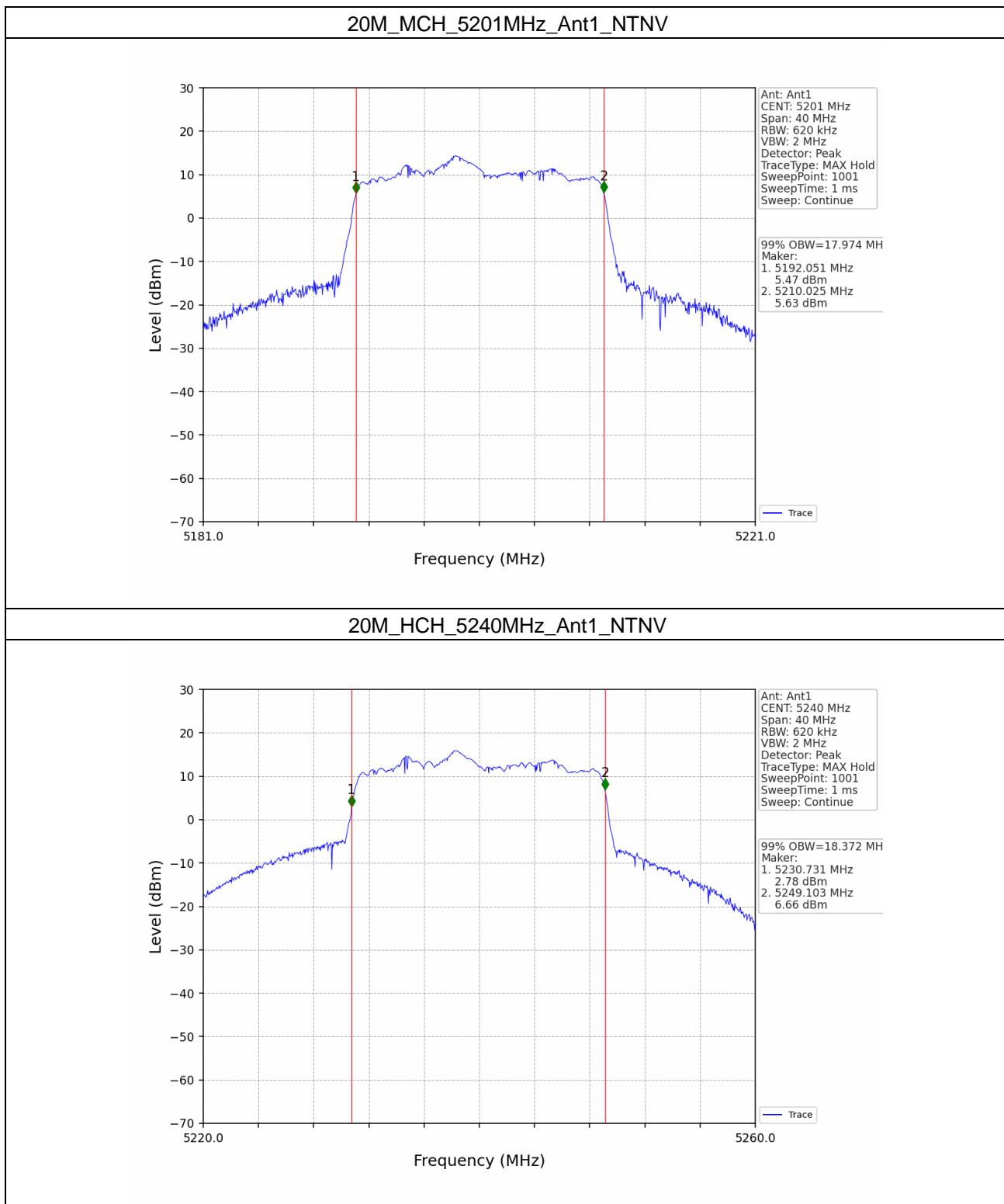
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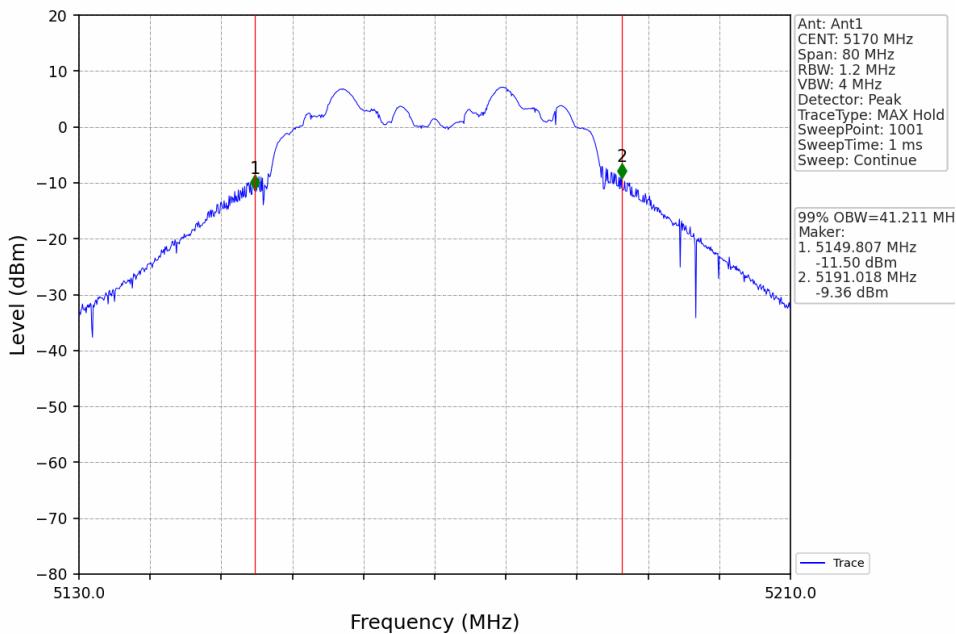
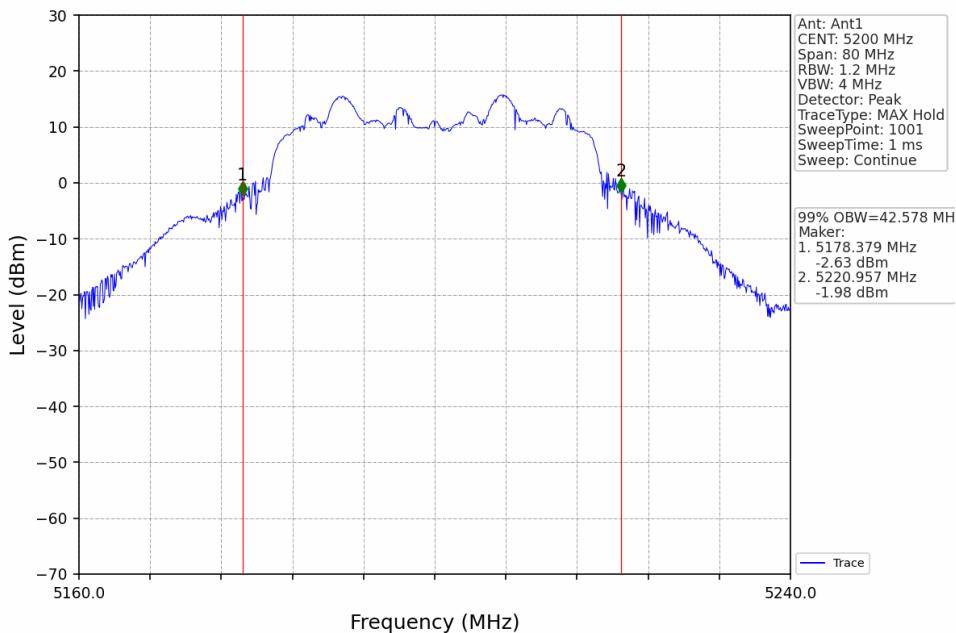
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**2.1.2 Test Graph**

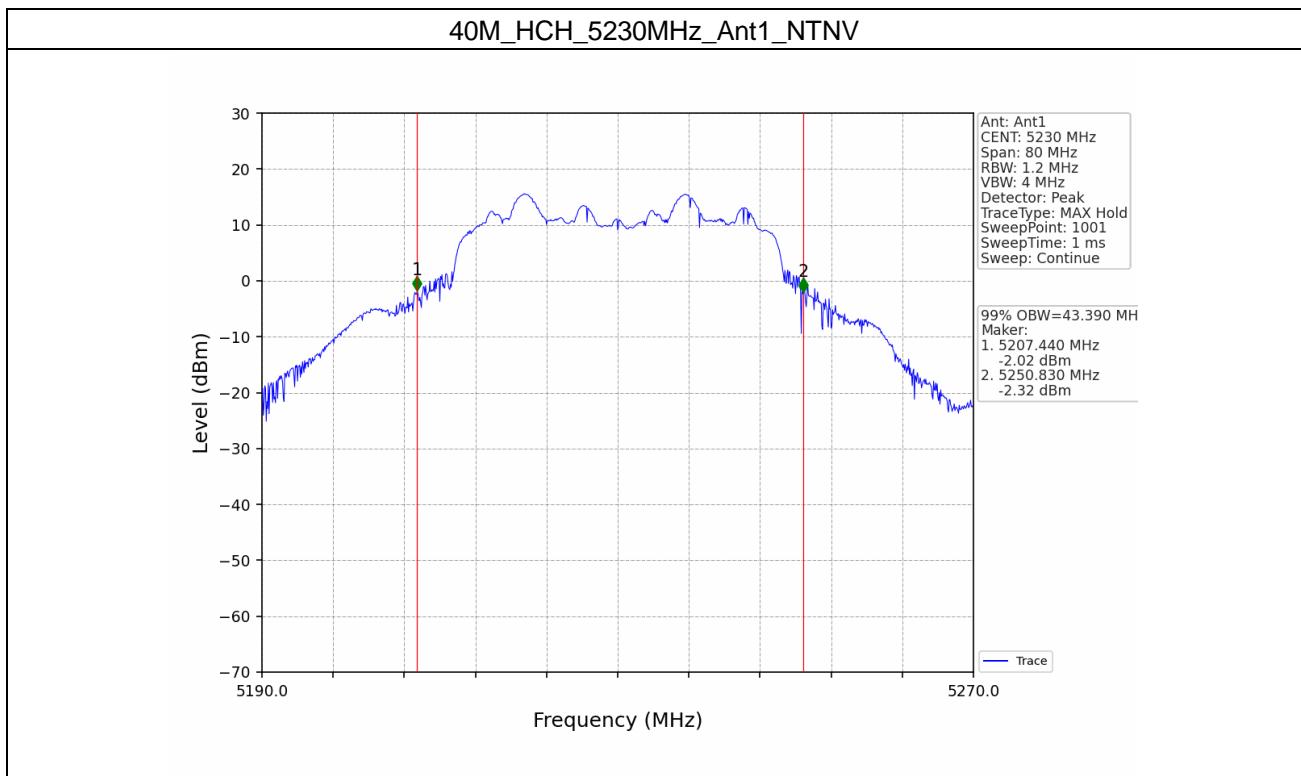




**40M\_LCH\_5170MHz\_Ant1\_NTNV****40M\_MCH\_5200MHz\_Ant1\_NTNV**

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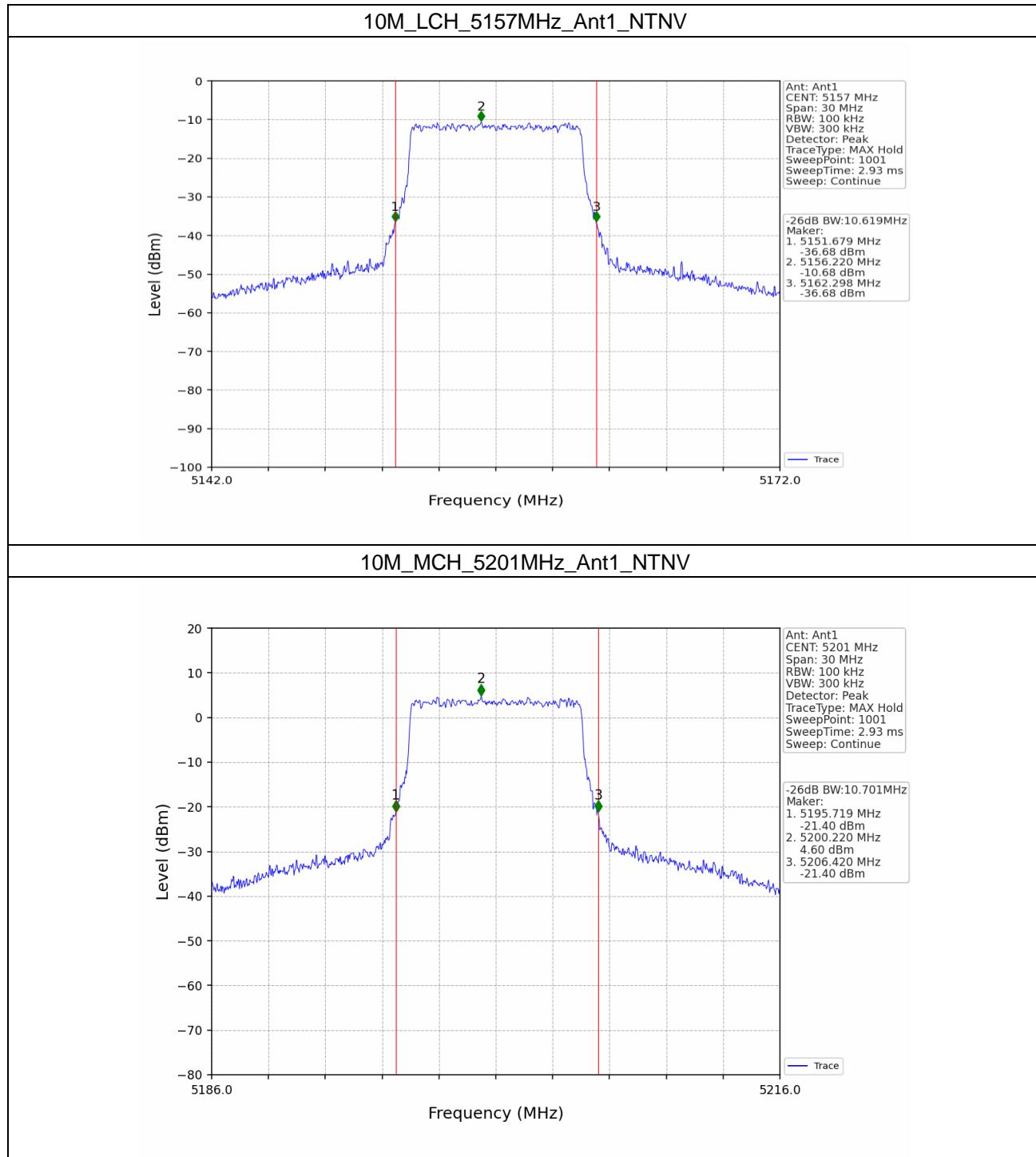
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## 2.2 26dB BW

### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
10M	MIMO	5157	1	10.619	Pass
		5201	1	10.701	Pass
		5245	1	10.615	Pass
20M	MIMO	5161	1	19.291	Pass
		5201	1	19.806	Pass
		5240	1	25.176	Pass
40M	MIMO	5170	1	53.515	Pass
		5200	1	58.081	Pass
		5230	1	60.107	Pass



**2.2.2 Test Graph**

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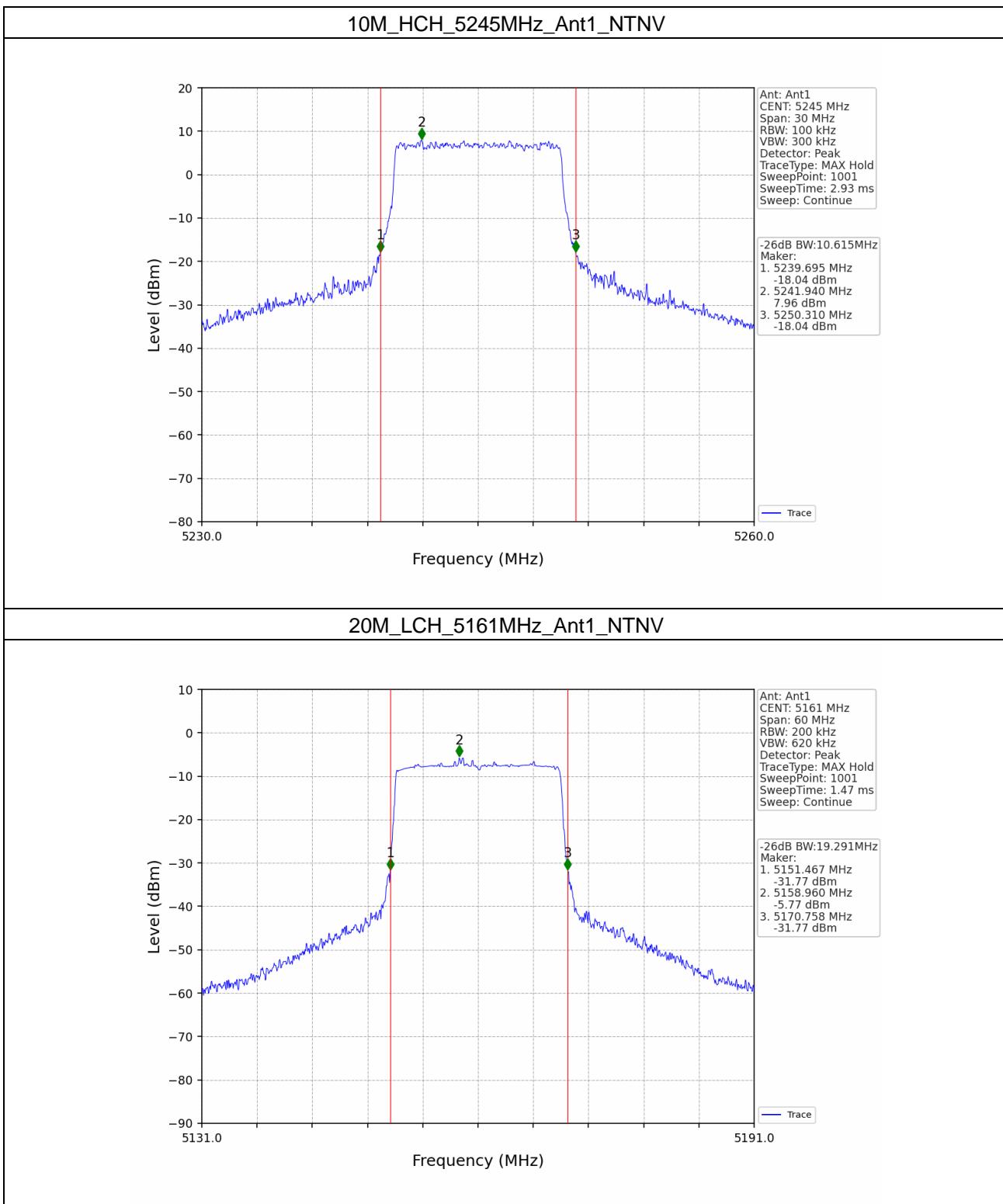
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900303107

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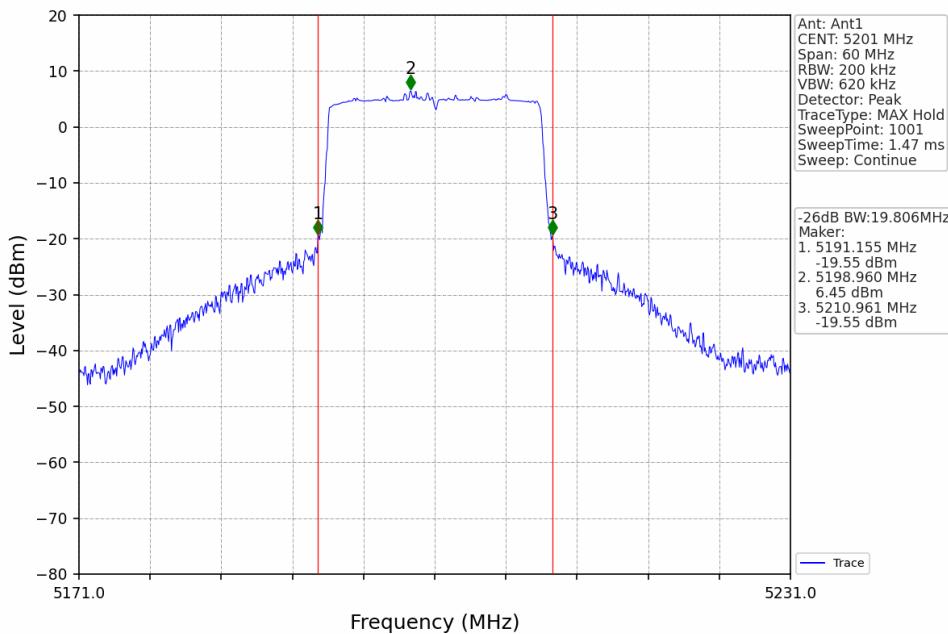
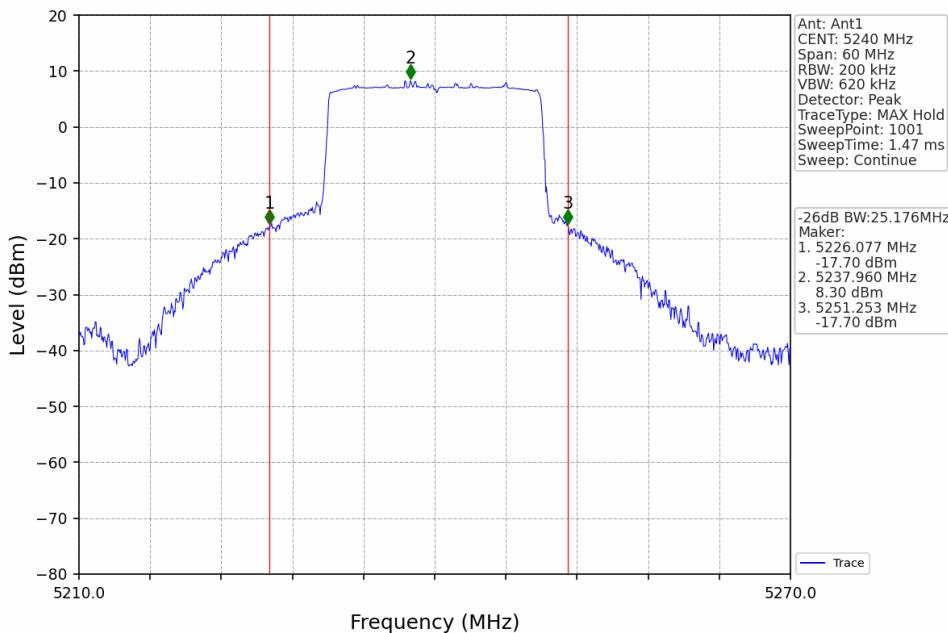
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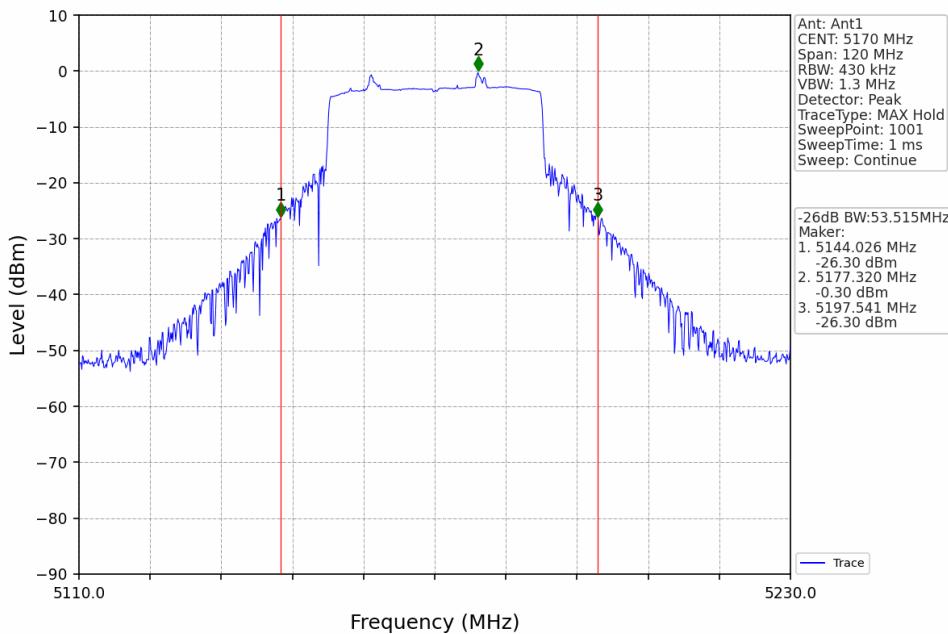
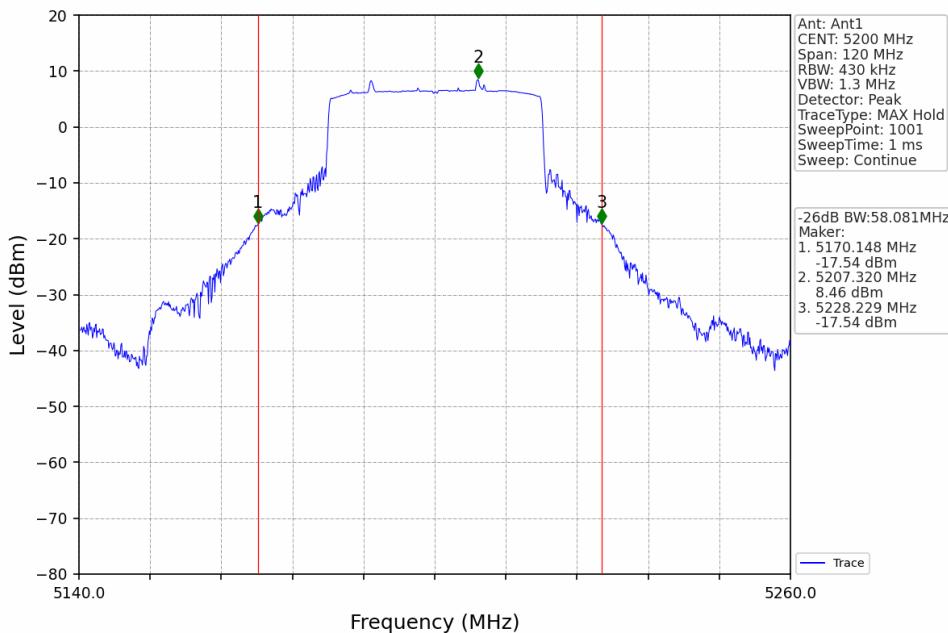
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**20M\_MCH\_5201MHz\_Ant1\_NTNV****20M\_HCH\_5240MHz\_Ant1\_NTNV**

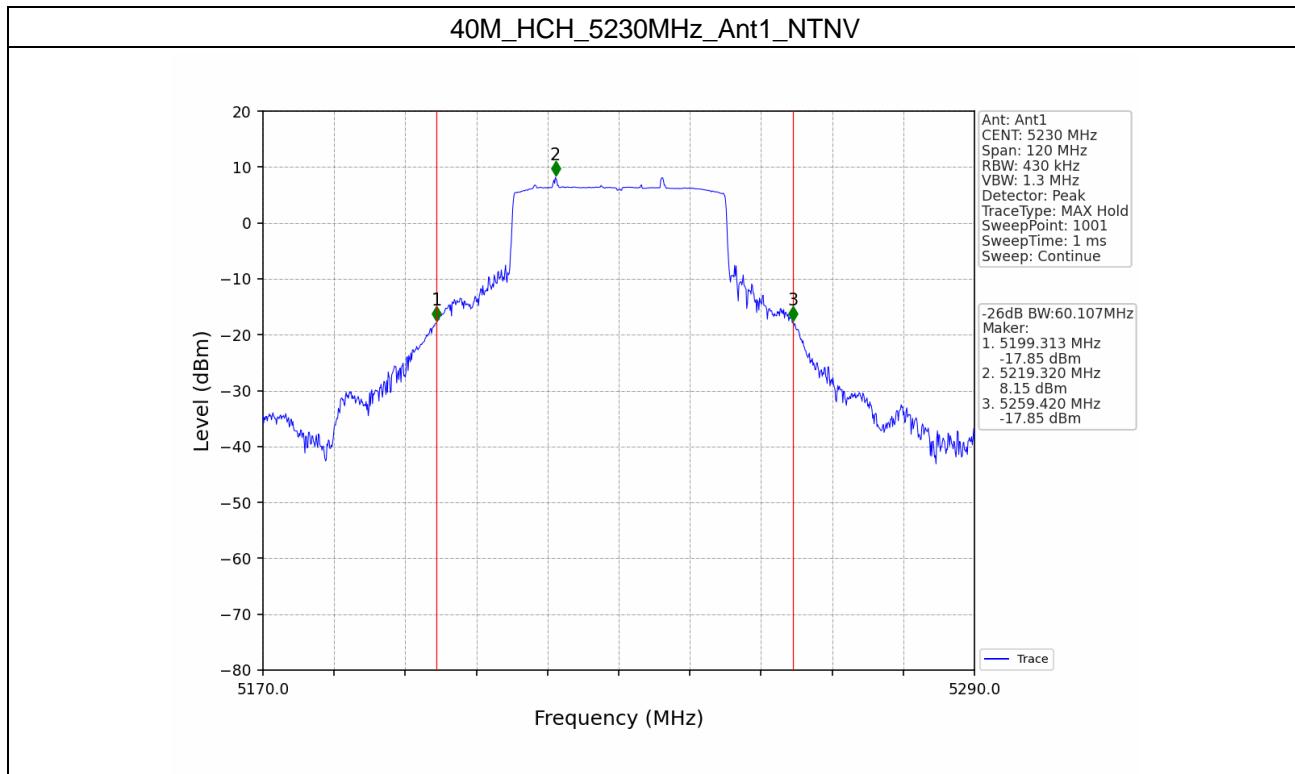
**40M\_LCH\_5170MHz\_Ant1\_NTNV****40M\_MCH\_5200MHz\_Ant1\_NTNV**

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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
10M	MIMO	5157	4.07	4.24	7.17	<=23.97	Pass
		5201	14.89	13.84	17.41	<=23.97	Pass
		5245	15.33	12.02	16.99	<=23.97	Pass
20M	MIMO	5161	10.16	10.70	13.45	<=23.97	Pass
		5201	14.62	13.71	17.20	<=23.97	Pass
		5240	15.44	13.12	17.44	<=23.97	Pass
40M	MIMO	5170	5.26	5.81	8.55	<=23.97	Pass
		5200	14.79	14.73	17.77	<=23.97	Pass
		5230	14.82	14.90	17.87	<=23.97	Pass

Note1: Antenna Gain: Ant1: 3dBi, Ant2: 3dBi,

Note2: Directional gain=G<sub>ANT</sub>+10 log(N<sub>ANT</sub>)dBi=3 dBi+3.01dBi=6.01dBi

### 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	
10M	MIMO	5157	-4.61	-4.42	-1.67	<=10.99	Pass
		5201	6.26	5.26	8.73	<=10.99	Pass
		5245	6.68	3.28	8.25	<=10.99	Pass
20M	MIMO	5161	-1.34	-0.88	1.75	<=10.99	Pass
		5201	3.12	2.17	5.60	<=10.99	Pass
		5240	3.71	1.54	5.66	<=10.99	Pass
40M	MIMO	5170	-9.08	-8.71	-6.08	<=10.99	Pass
		5200	0.32	0.40	3.14	<=10.99	Pass
		5230	0.26	0.57	3.13	<=10.99	Pass

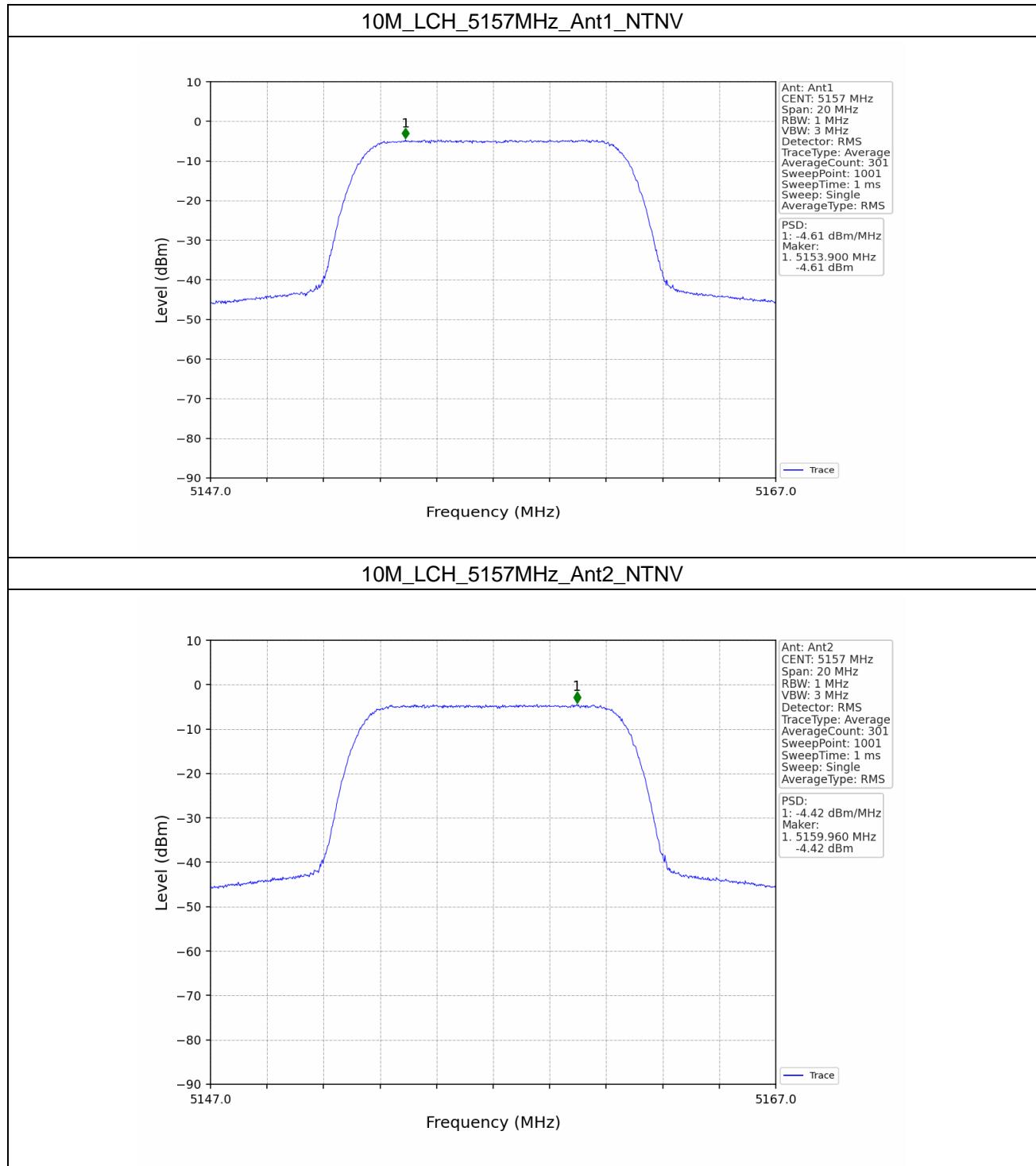
Note1: Antenna Gain: Ant1: 3dBi, Ant2: 3dBi,

Note2: Directional gain=G<sub>ANT</sub>+10 log(N<sub>ANT</sub>)dBi=3 dBi+3.01dBi=6.01dBi



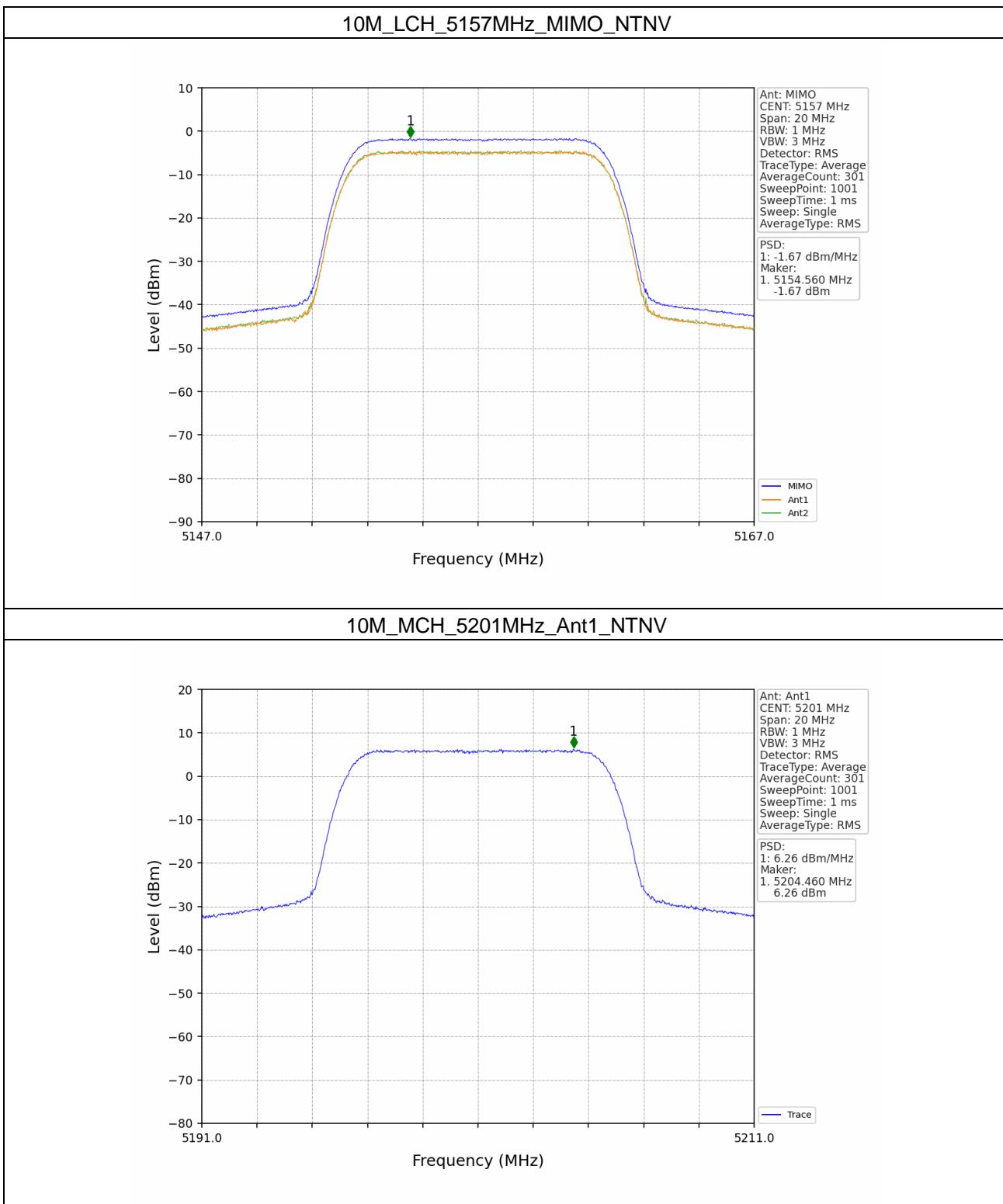
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**4.1.2 Test Graph**

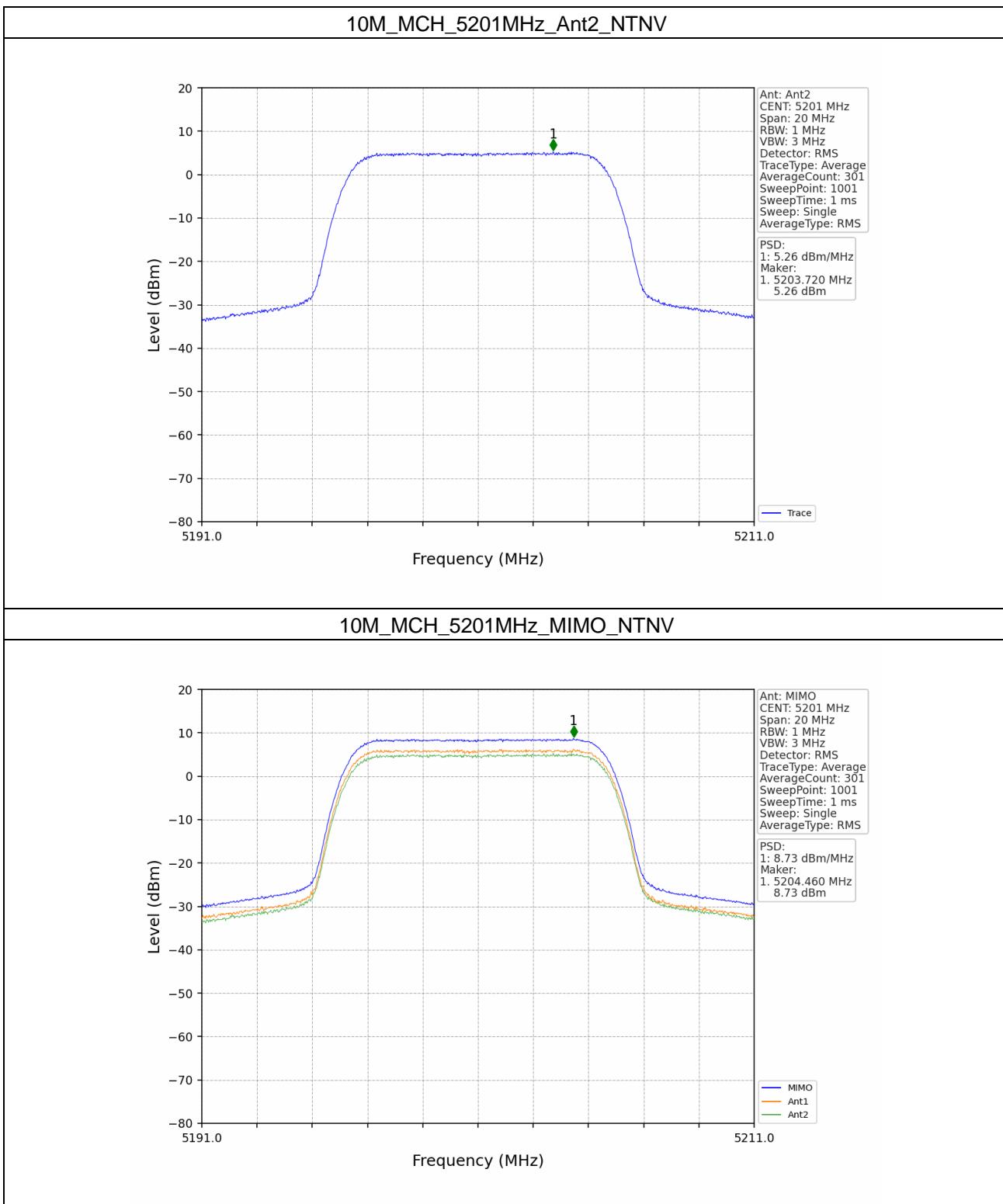
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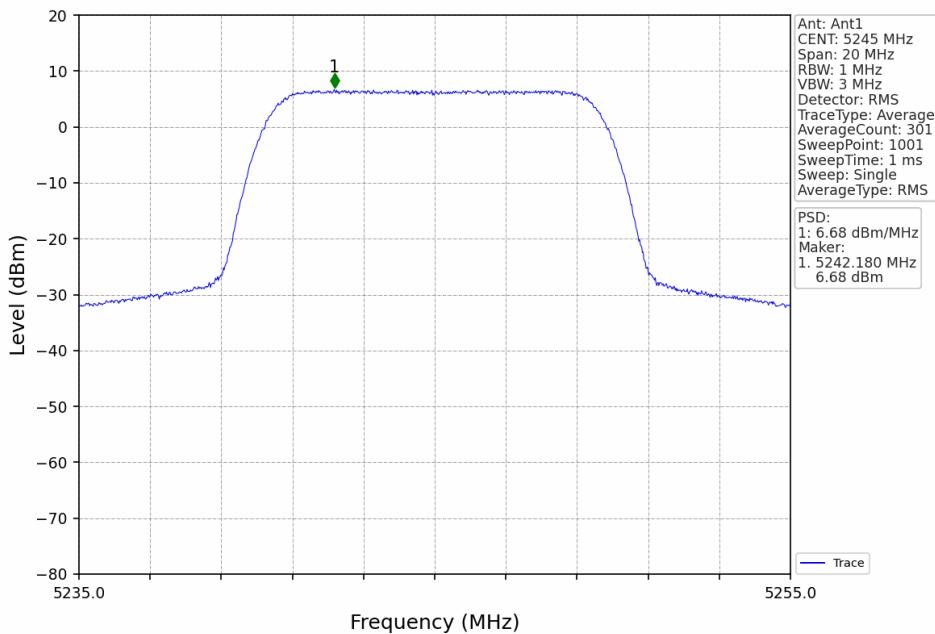
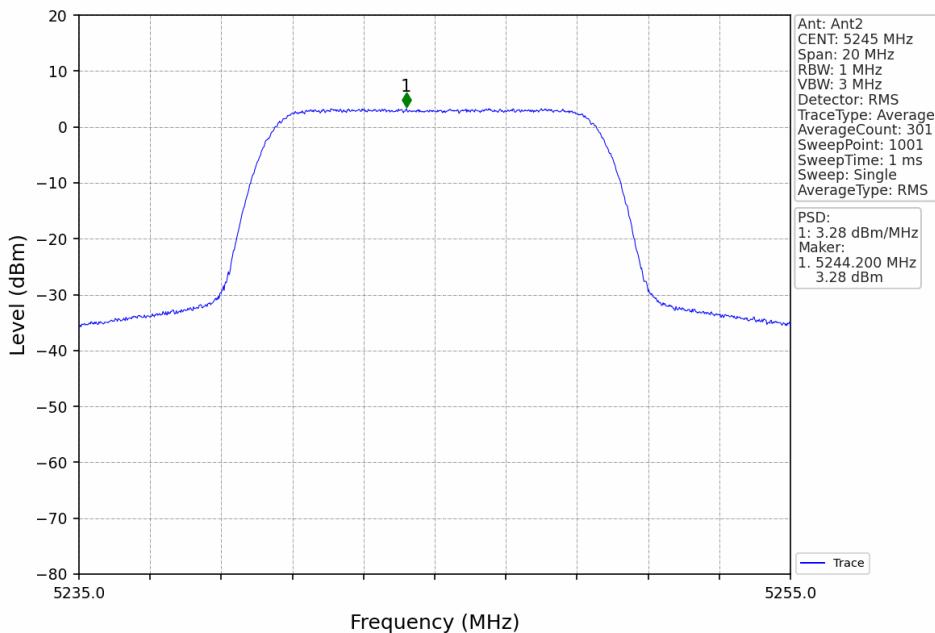
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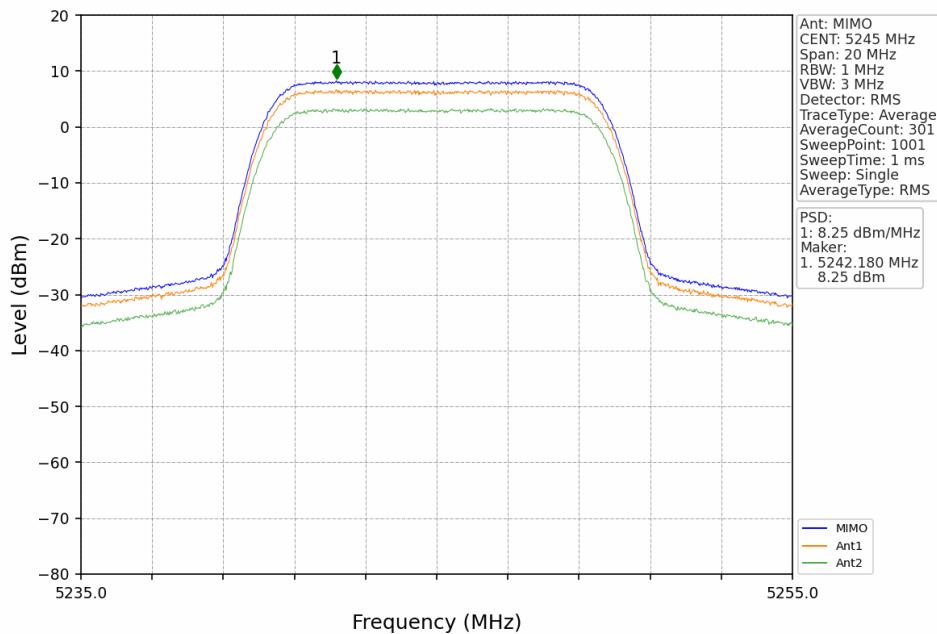
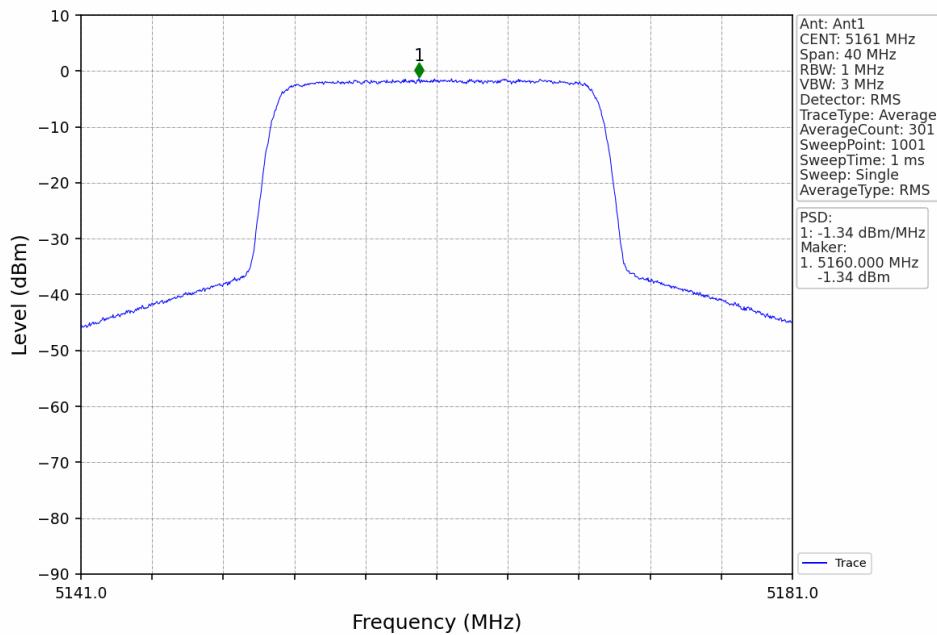
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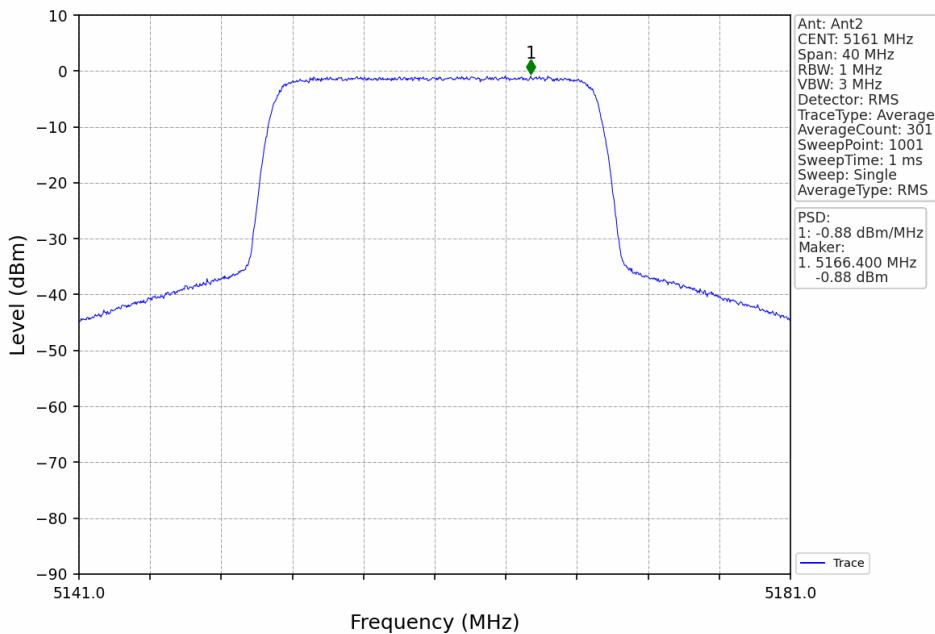
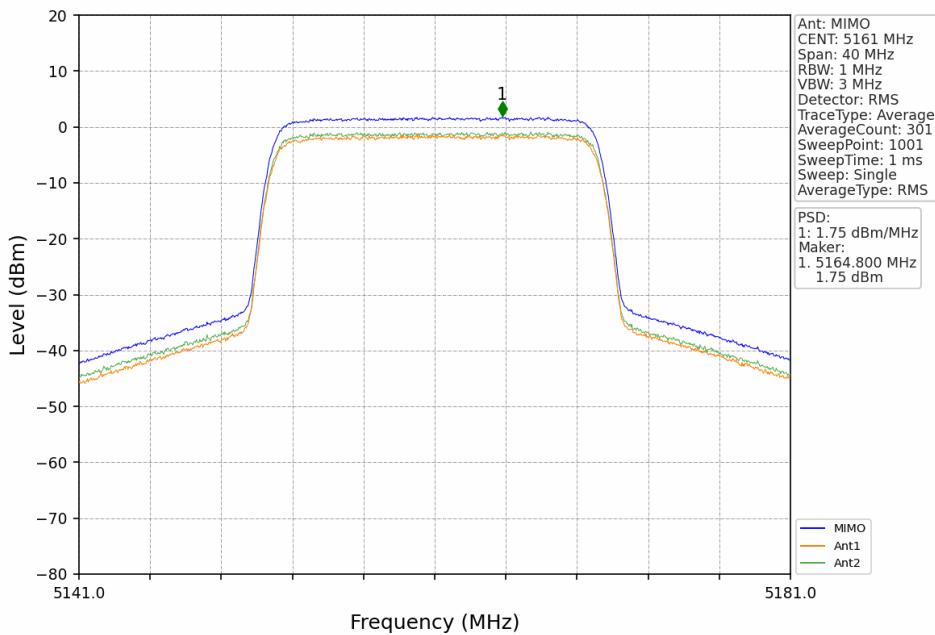
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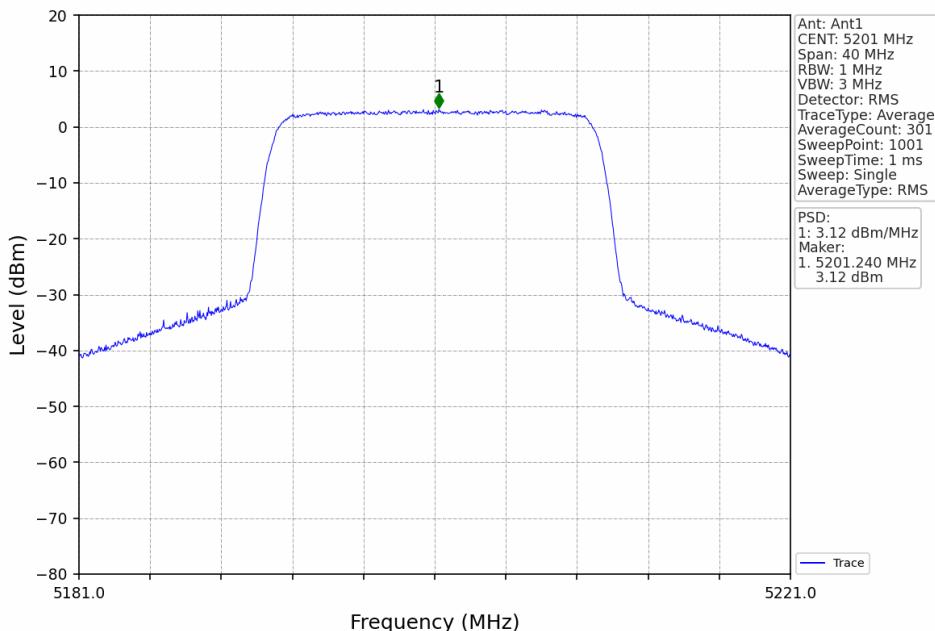
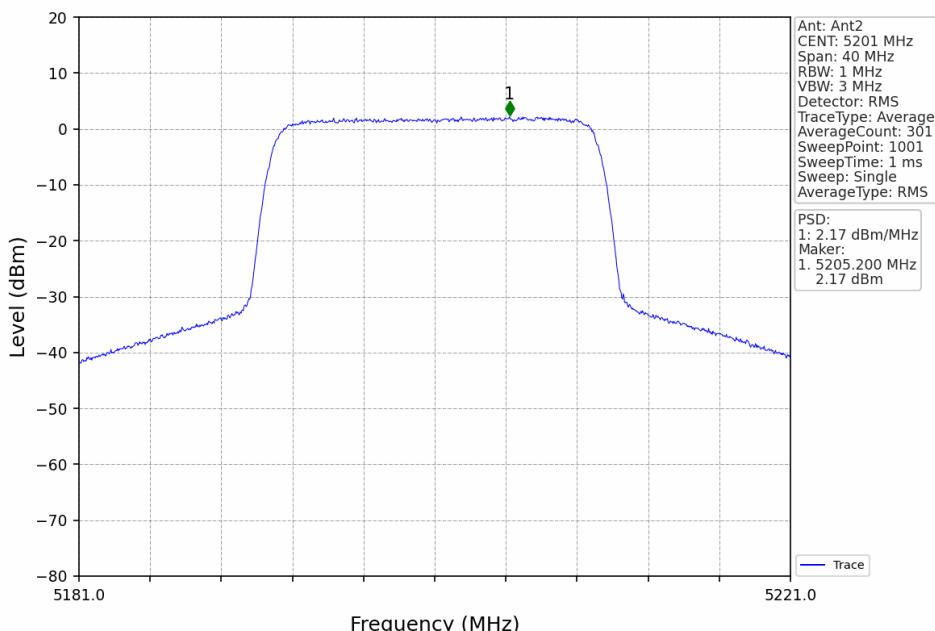
**10M\_HCH\_5245MHz\_Ant1\_NTNV****10M\_HCH\_5245MHz\_Ant2\_NTNV**

**10M\_HCH\_5245MHz\_MIMO\_NTNV****20M\_LCH\_5161MHz\_Ant1\_NTNV**

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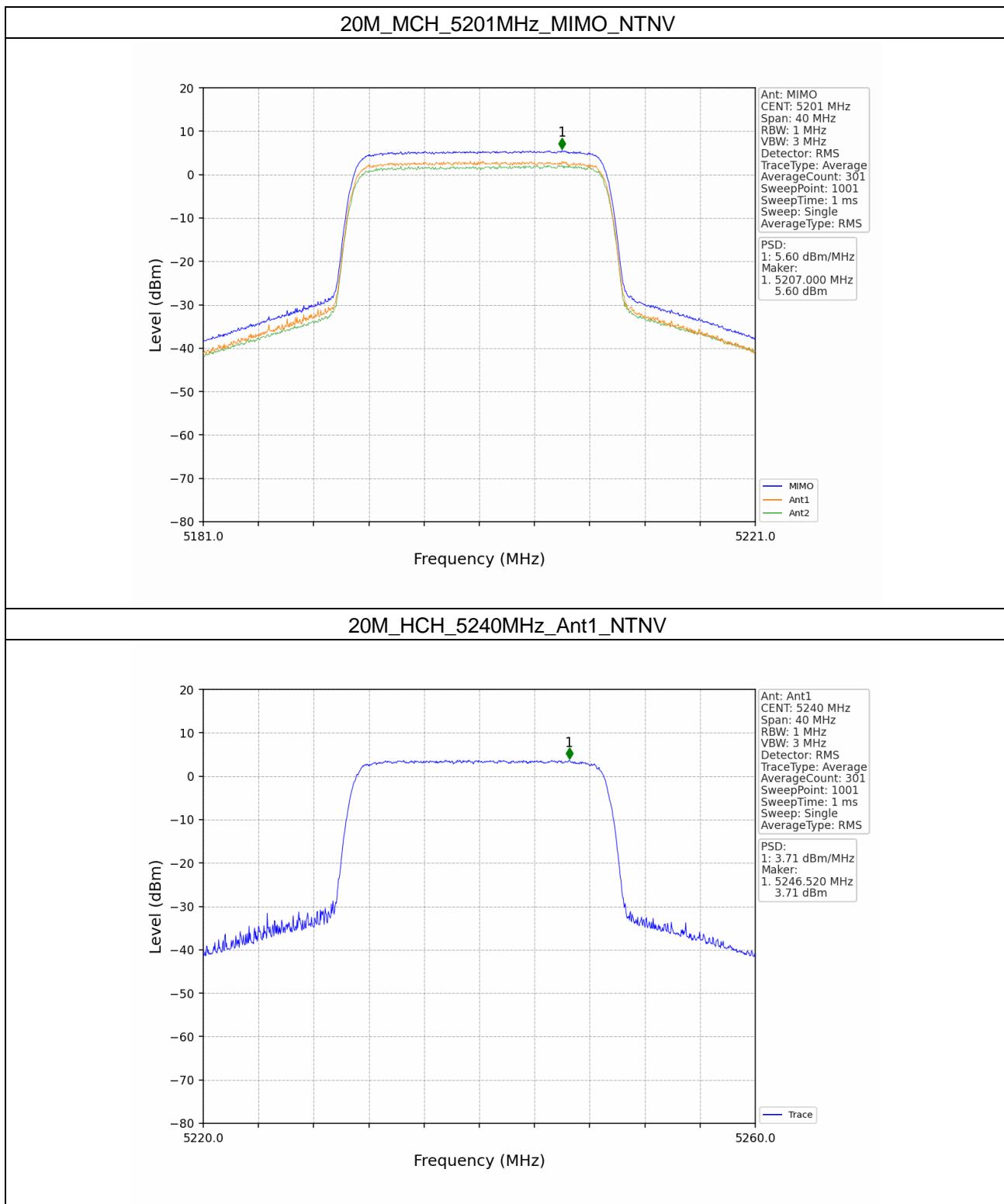
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**20M\_LCH\_5161MHz\_Ant2\_NTNV****20M\_LCH\_5161MHz\_MIMO\_NTNV**

**20M\_MCH\_5201MHz\_Ant1\_NTNV****20M\_MCH\_5201MHz\_Ant2\_NTNV**

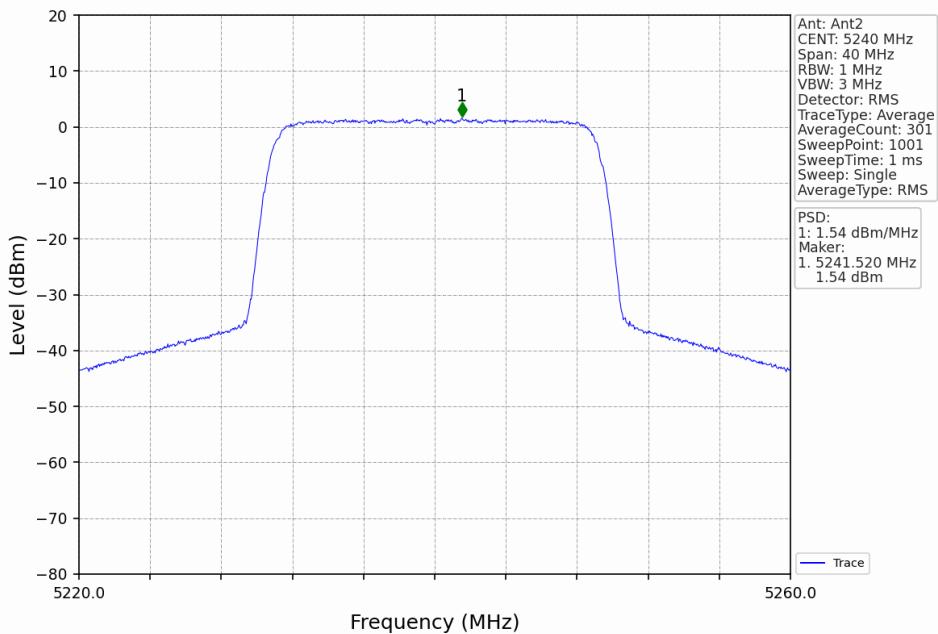
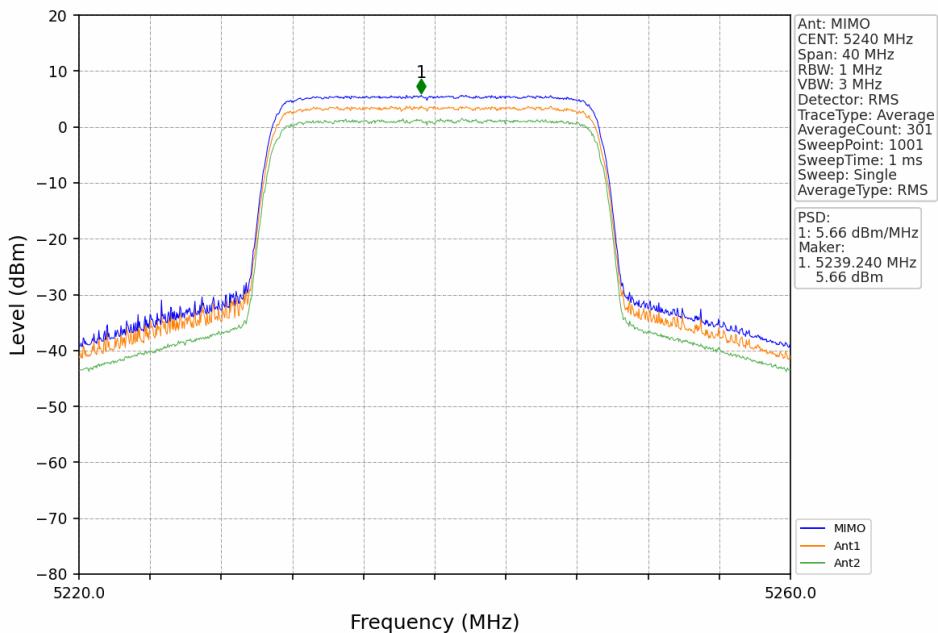
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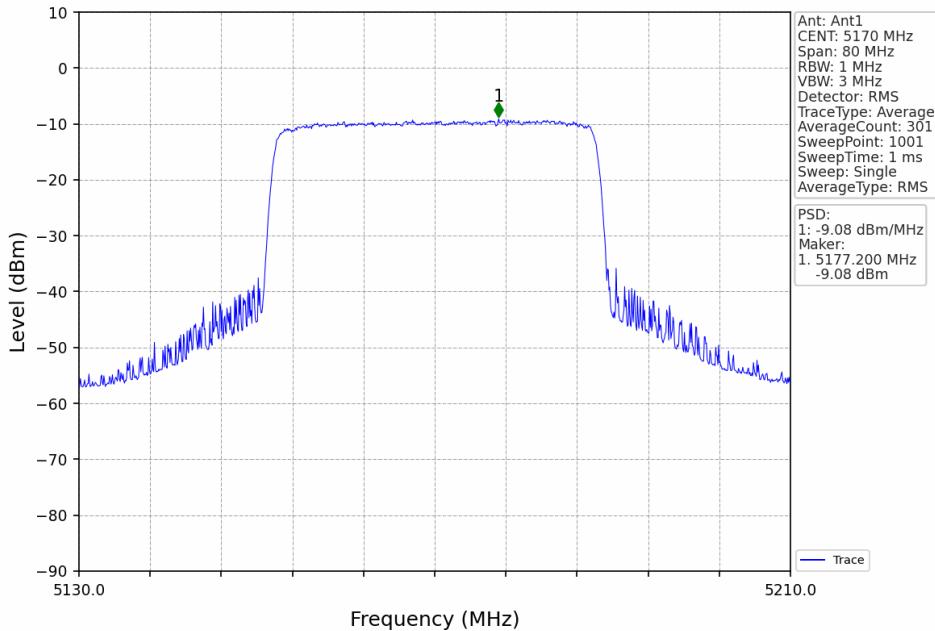
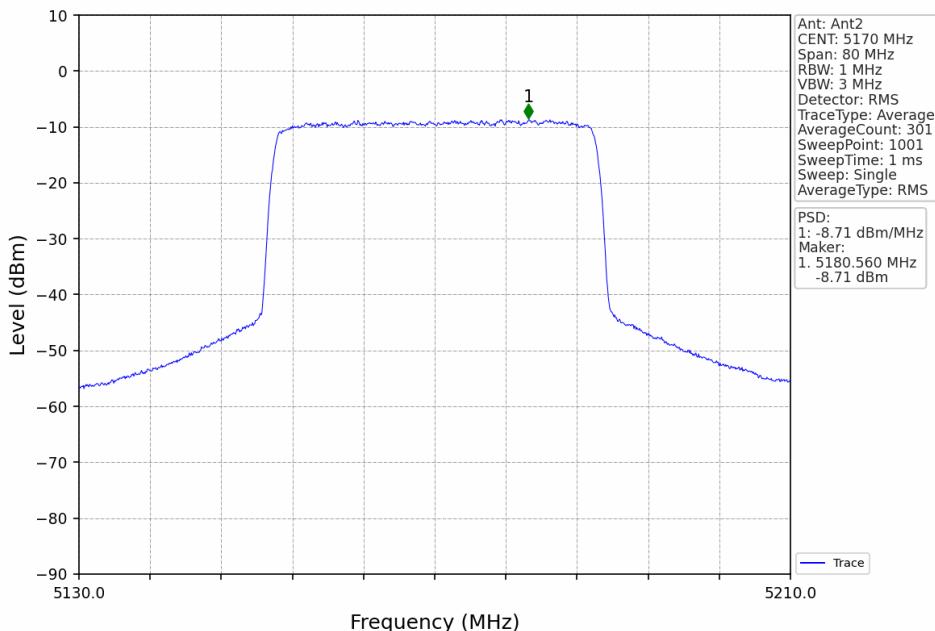
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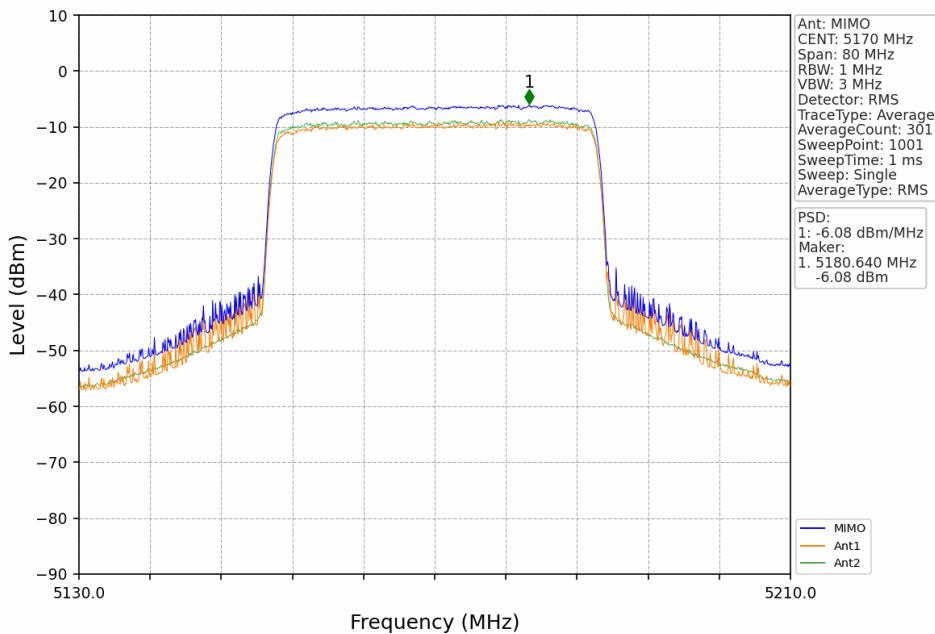
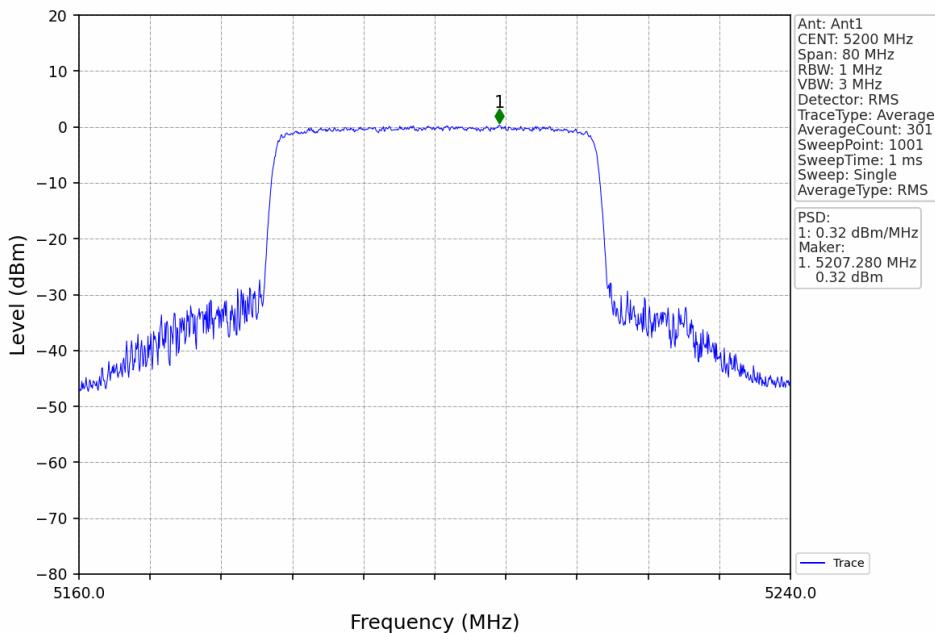
**40M\_LCH\_5170MHz\_Ant1\_NTNV****40M\_LCH\_5170MHz\_Ant2\_NTNV**

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**40M\_LCH\_5170MHz\_MIMO\_NTNV****40M\_MCH\_5200MHz\_Ant1\_NTNV**

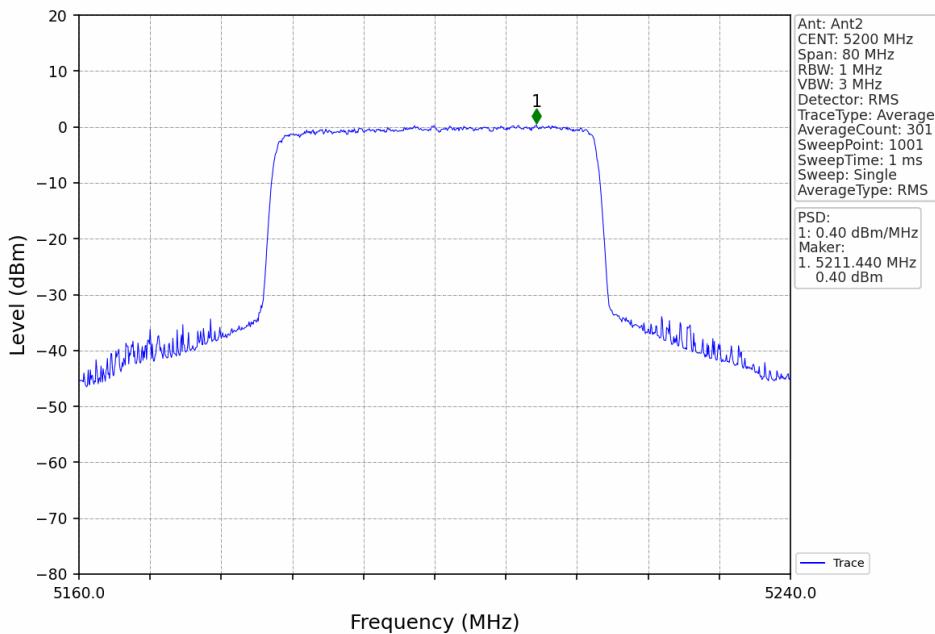
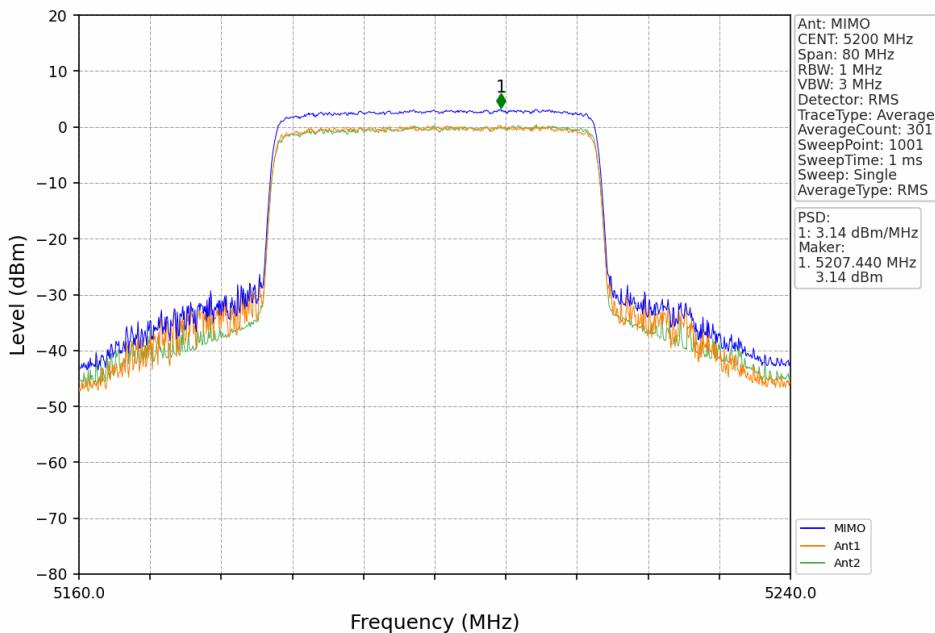
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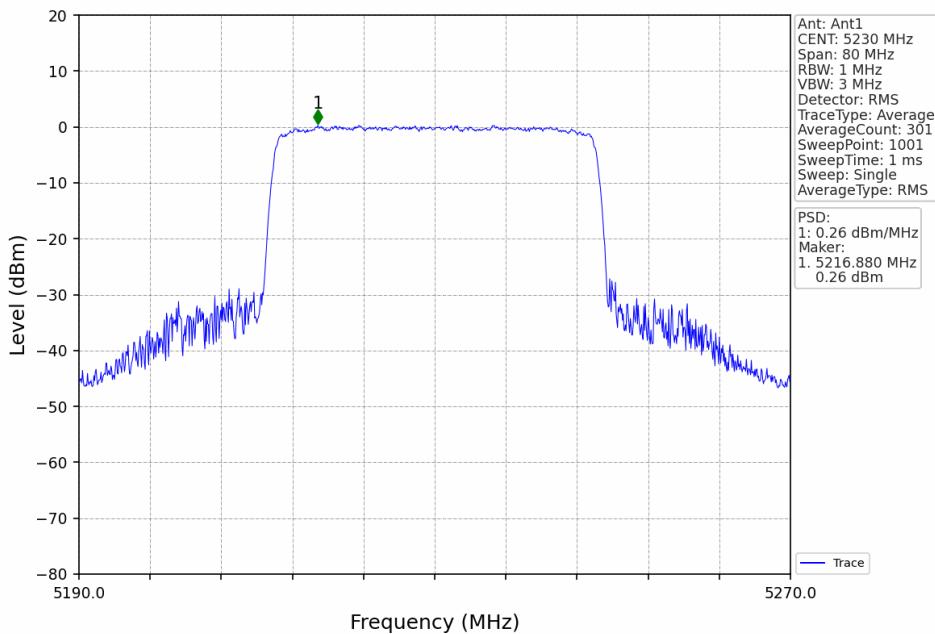
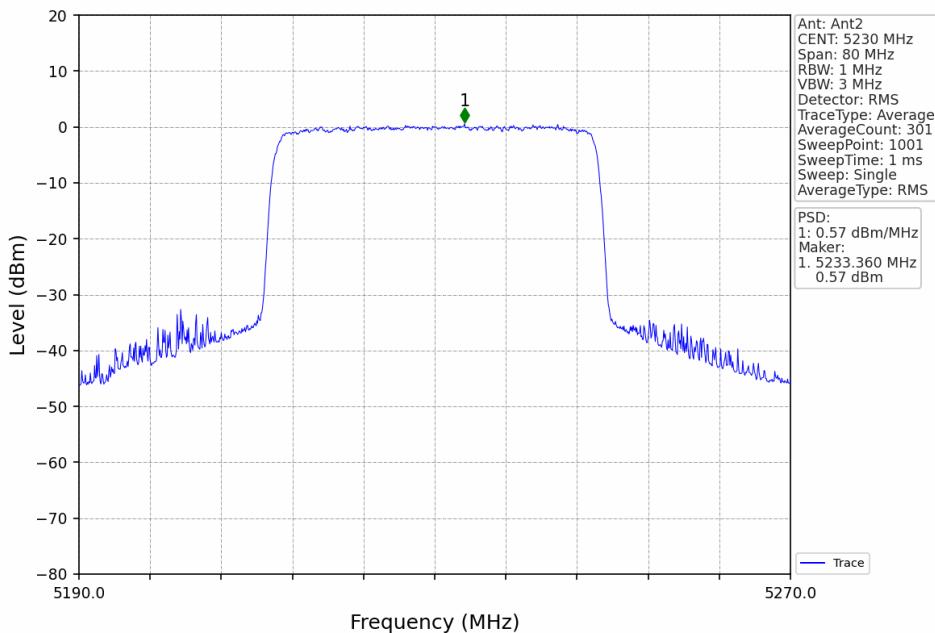
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**40M\_MCH\_5200MHz\_Ant2\_NTNV****40M\_MCH\_5200MHz\_MIMO\_NTNV**

**40M\_HCH\_5230MHz\_Ant1\_NTNV****40M\_HCH\_5230MHz\_Ant2\_NTNV**

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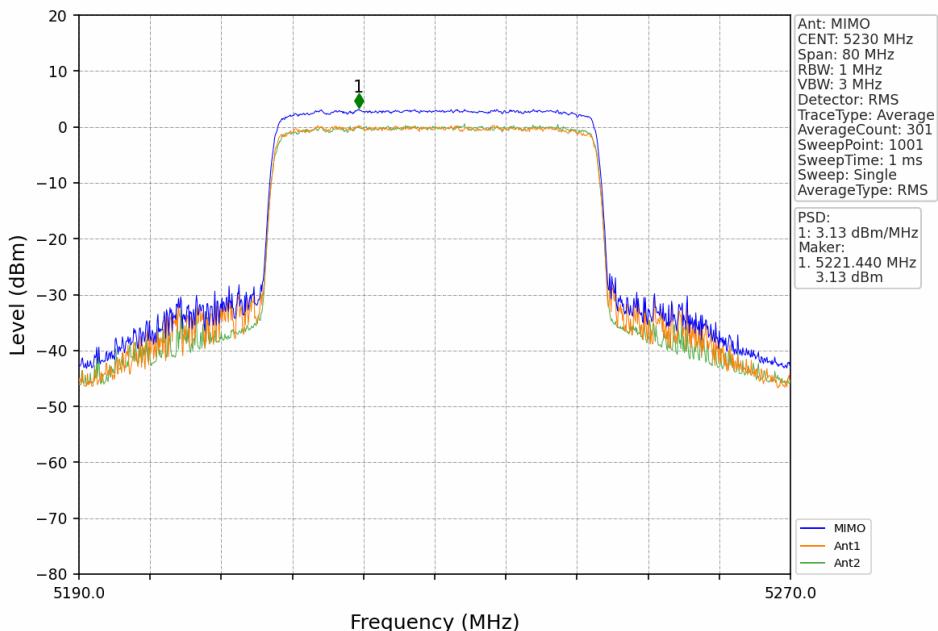
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### 40M\_HCH\_5230MHz\_MIMO\_NTNV



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## 5. Frequency Stability

### 5.1 Ant1

#### 5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
10M	MIMO	5157	20	3.06	5157.040	5150 to 5250	Pass
				3.60	5157.020	5150 to 5250	Pass
				4.14	5156.970	5150 to 5250	Pass
			-10	3.60	5157.040	5150 to 5250	Pass
			-5	3.60	5157.060	5150 to 5250	Pass
			0	3.60	5157.050	5150 to 5250	Pass
			5	3.60	5157.020	5150 to 5250	Pass
			10	3.60	5156.980	5150 to 5250	Pass
			20	3.60	5157.000	5150 to 5250	Pass
			30	3.60	5157.050	5150 to 5250	Pass
			40	3.60	5157.020	5150 to 5250	Pass
		5201	20	3.06	5201.060	5150 to 5250	Pass
				3.60	5201.010	5150 to 5250	Pass
				4.14	5201.030	5150 to 5250	Pass
			-10	3.60	5200.990	5150 to 5250	Pass
			-5	3.60	5201.040	5150 to 5250	Pass
			0	3.60	5201.050	5150 to 5250	Pass
			5	3.60	5200.970	5150 to 5250	Pass
			10	3.60	5201.030	5150 to 5250	Pass
			20	3.60	5201.040	5150 to 5250	Pass
			30	3.60	5201.020	5150 to 5250	Pass
			40	3.60	5201.020	5150 to 5250	Pass
		5245	20	3.06	5245.010	5150 to 5250	Pass
				3.60	5245.010	5150 to 5250	Pass
				4.14	5245.020	5150 to 5250	Pass
			-10	3.60	5245.010	5150 to 5250	Pass
			-5	3.60	5245.030	5150 to 5250	Pass
			0	3.60	5245.050	5150 to 5250	Pass
			5	3.60	5245.010	5150 to 5250	Pass
			10	3.60	5245.060	5150 to 5250	Pass

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			20	3.60	5244.990	5150 to 5250	Pass
			30	3.60	5245.030	5150 to 5250	Pass
			40	3.60	5244.990	5150 to 5250	Pass
20M	MIMO	5161	20	3.06	5161.040	5150 to 5250	Pass
				3.60	5161.060	5150 to 5250	Pass
				4.14	5161.060	5150 to 5250	Pass
				-10	5161.020	5150 to 5250	Pass
				-5	5161.040	5150 to 5250	Pass
				0	5161.060	5150 to 5250	Pass
				5	5161.060	5150 to 5250	Pass
				10	5161.020	5150 to 5250	Pass
				20	5161.020	5150 to 5250	Pass
				30	5161.040	5150 to 5250	Pass
			5201	40	5161.040	5150 to 5250	Pass
				3.06	5201.040	5150 to 5250	Pass
				3.60	5201.040	5150 to 5250	Pass
				4.14	5201.040	5150 to 5250	Pass
				-10	5201.040	5150 to 5250	Pass
				-5	5201.040	5150 to 5250	Pass
				0	5201.040	5150 to 5250	Pass
				5	5201.040	5150 to 5250	Pass
				10	5201.040	5150 to 5250	Pass
				20	5201.060	5150 to 5250	Pass
				30	5201.040	5150 to 5250	Pass
				40	5201.040	5150 to 5250	Pass
			5240	3.06	5240.040	5150 to 5250	Pass
				3.60	5240.040	5150 to 5250	Pass
				4.14	5240.040	5150 to 5250	Pass
				-10	5240.040	5150 to 5250	Pass
				-5	5240.040	5150 to 5250	Pass
				0	5240.020	5150 to 5250	Pass
				5	5240.040	5150 to 5250	Pass
				10	5240.020	5150 to 5250	Pass
				20	5240.040	5150 to 5250	Pass
				30	5240.060	5150 to 5250	Pass
				40	5240.040	5150 to 5250	Pass
			5170	3.06	5170.080	5150 to 5250	Pass
				3.60	5170.080	5150 to 5250	Pass
				4.14	5170.080	5150 to 5250	Pass
				-10	5170.080	5150 to 5250	Pass

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			-5	3.60	5170.120	5150 to 5250	Pass
			0	3.60	5170.080	5150 to 5250	Pass
			5	3.60	5170.080	5150 to 5250	Pass
			10	3.60	5170.080	5150 to 5250	Pass
			20	3.60	5170.080	5150 to 5250	Pass
			30	3.60	5170.080	5150 to 5250	Pass
			40	3.60	5170.080	5150 to 5250	Pass
	5200			3.06	5200.080	5150 to 5250	Pass
			20	3.60	5200.080	5150 to 5250	Pass
				4.14	5200.120	5150 to 5250	Pass
			-10	3.60	5200.080	5150 to 5250	Pass
			-5	3.60	5200.080	5150 to 5250	Pass
			0	3.60	5200.080	5150 to 5250	Pass
			5	3.60	5200.080	5150 to 5250	Pass
			10	3.60	5200.080	5150 to 5250	Pass
			20	3.60	5200.120	5150 to 5250	Pass
			30	3.60	5200.080	5150 to 5250	Pass
			40	3.60	5200.120	5150 to 5250	Pass
	5230			3.06	5230.080	5150 to 5250	Pass
			20	3.60	5230.040	5150 to 5250	Pass
				4.14	5230.080	5150 to 5250	Pass
			-10	3.60	5230.080	5150 to 5250	Pass
			-5	3.60	5230.080	5150 to 5250	Pass
			0	3.60	5230.040	5150 to 5250	Pass
			5	3.60	5230.080	5150 to 5250	Pass
			10	3.60	5230.080	5150 to 5250	Pass
			20	3.60	5230.040	5150 to 5250	Pass
			30	3.60	5230.080	5150 to 5250	Pass
			40	3.60	5230.080	5150 to 5250	Pass

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**5.1G SDR Partial SISO Mode**

## 1. Duty Cycle

## 1.1 Ant0

## 1.1.1 Test Result

Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
20M RU	SISO	5156	100.000	100.000	100.00	0.00	0.00
		5195	100.000	100.000	100.00	0.00	0.00
		5245	100.000	100.000	100.00	0.00	0.00
40M RU	SISO	5160	100.000	100.000	100.00	0.00	0.00
		5190	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00

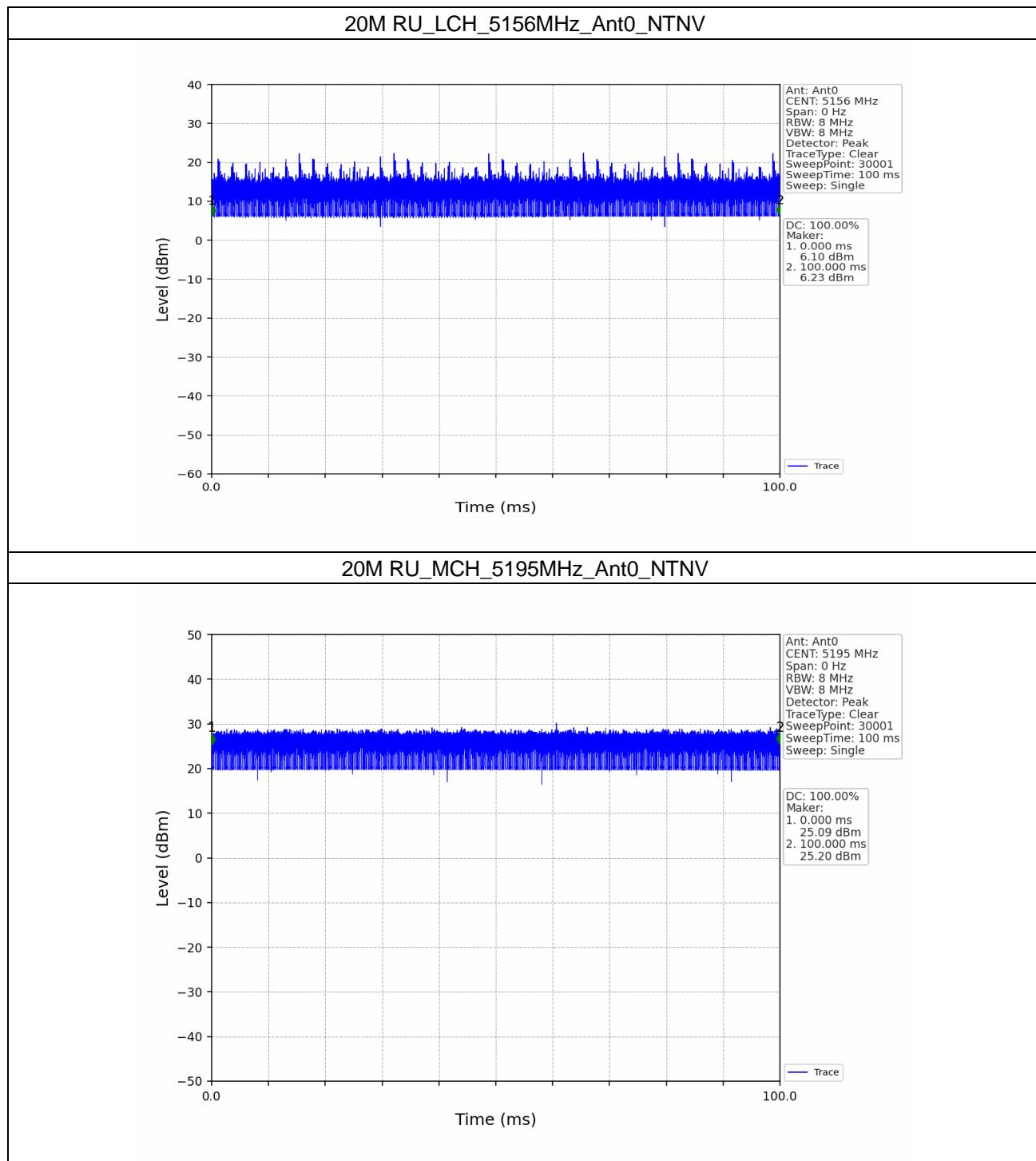
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**1.1.2 Test Graph**

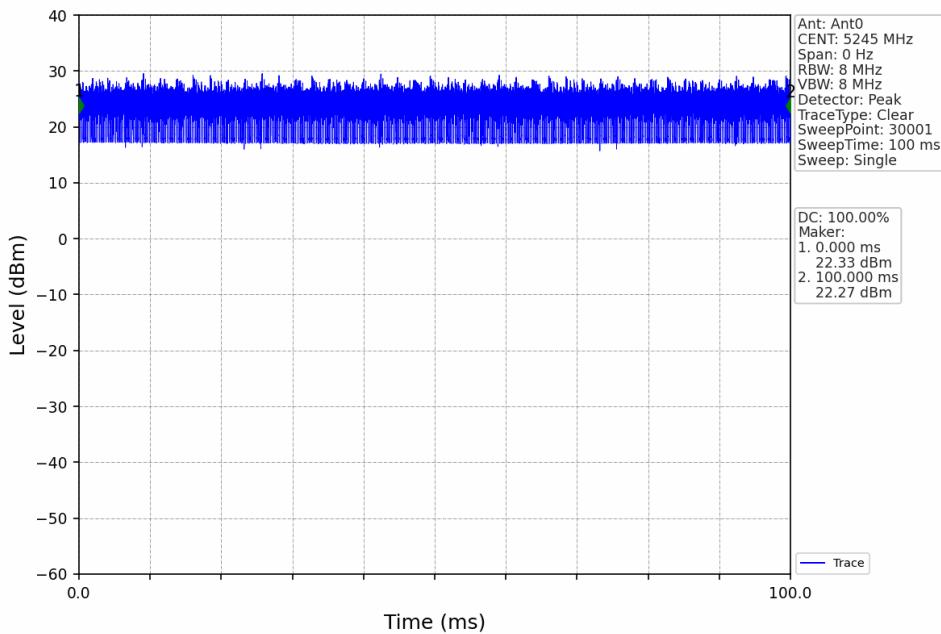
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

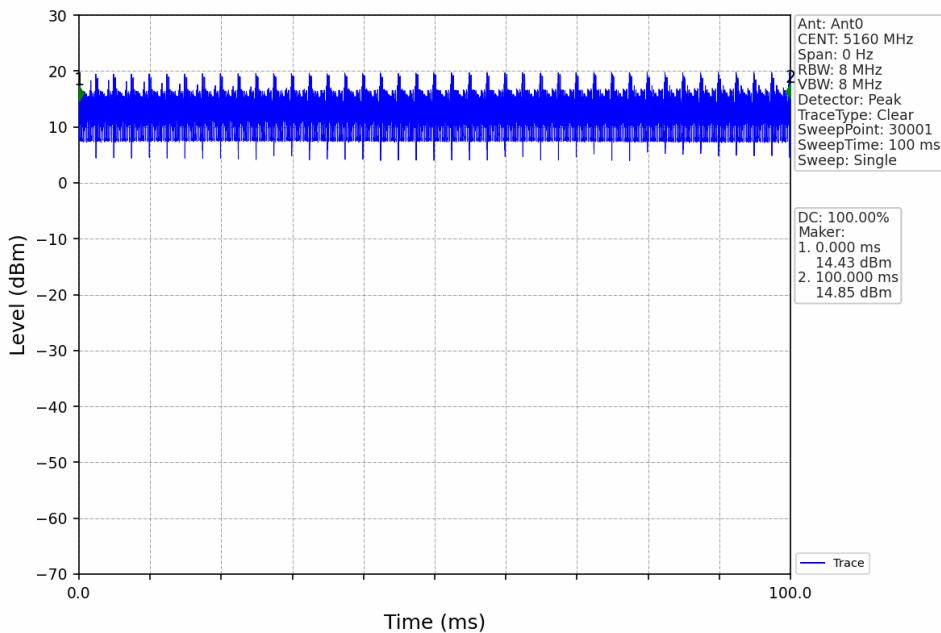
Report No.: SZCR230900303107

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### 20M RU\_HCH\_5245MHz\_Ant0\_NTNV



### 40M RU\_LCH\_5160MHz\_Ant0\_NTNV



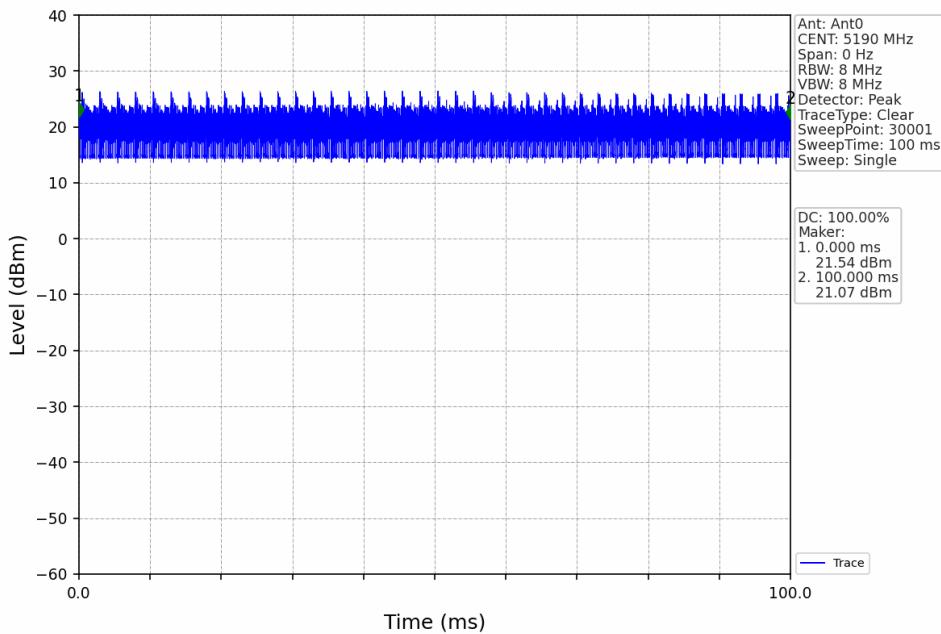
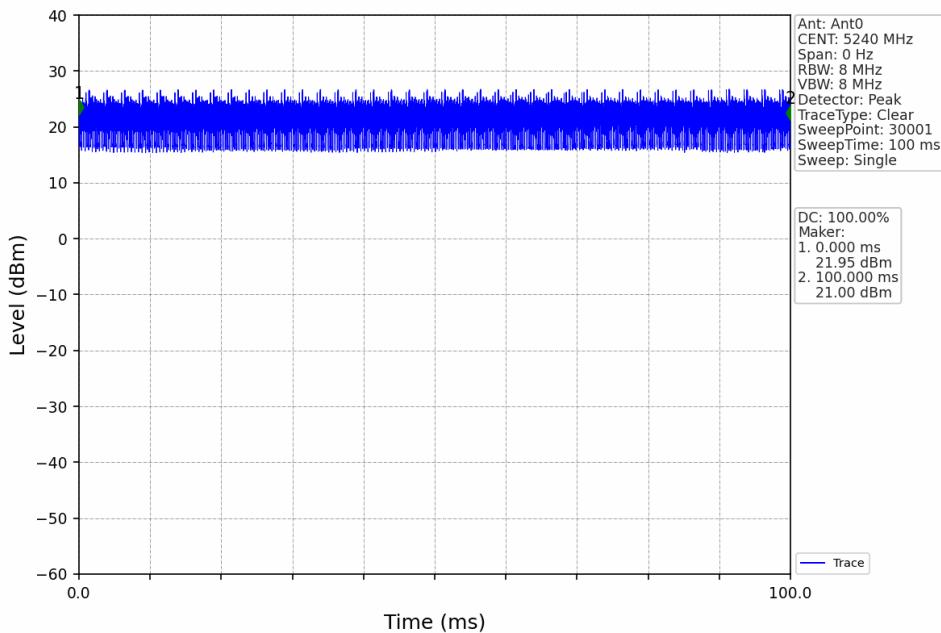
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**40M RU\_MCH\_5190MHz\_Ant0\_NTNV****40M RU\_HCH\_5240MHz\_Ant0\_NTNV**

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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
20M RU	SISO	5156	0	22.899	Pass
		5195	0	22.633	Pass
		5245	0	22.053	Pass
40M RU	SISO	5160	0	45.897	Pass
		5190	0	44.595	Pass
		5240	0	32.091	Pass



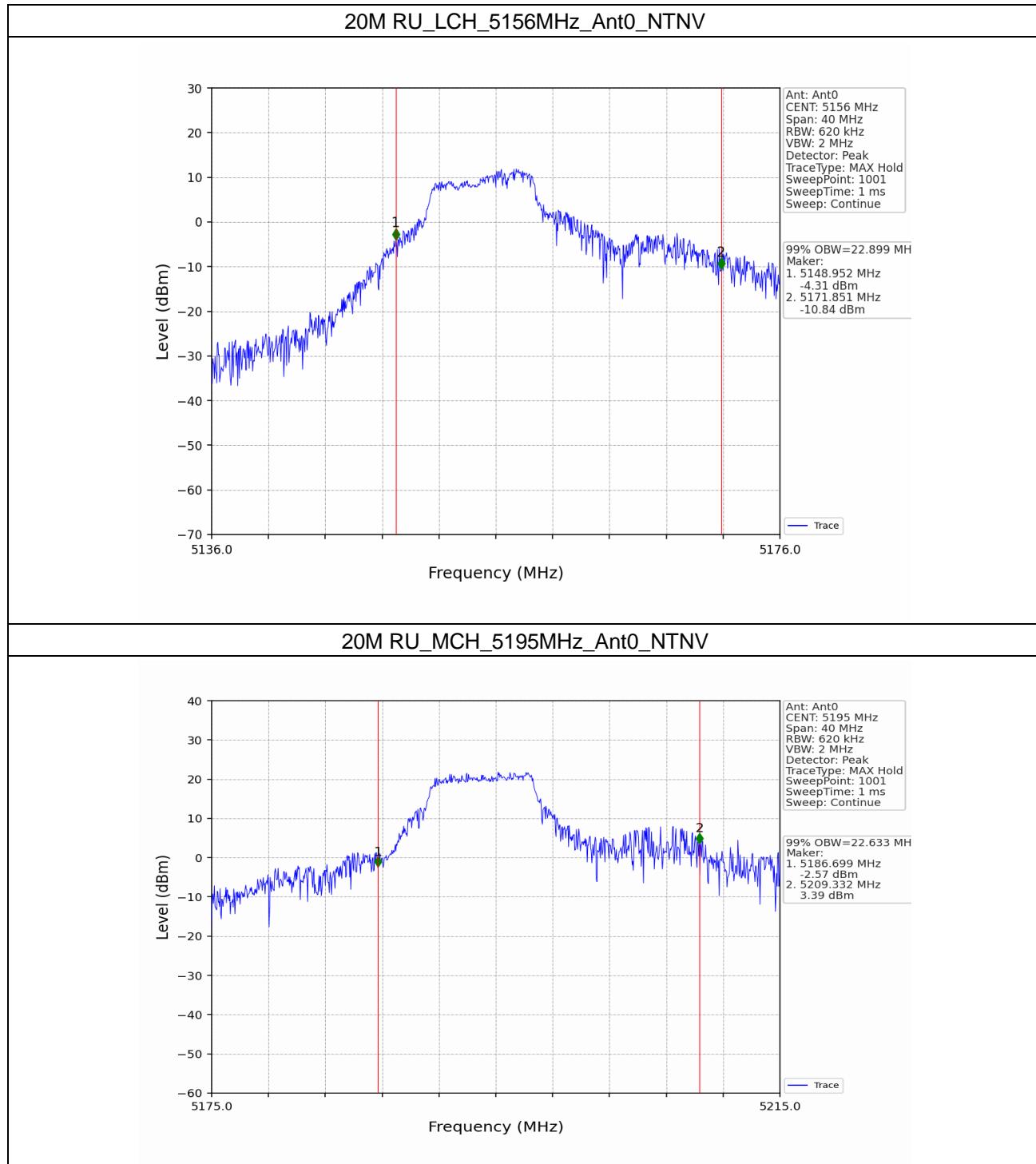
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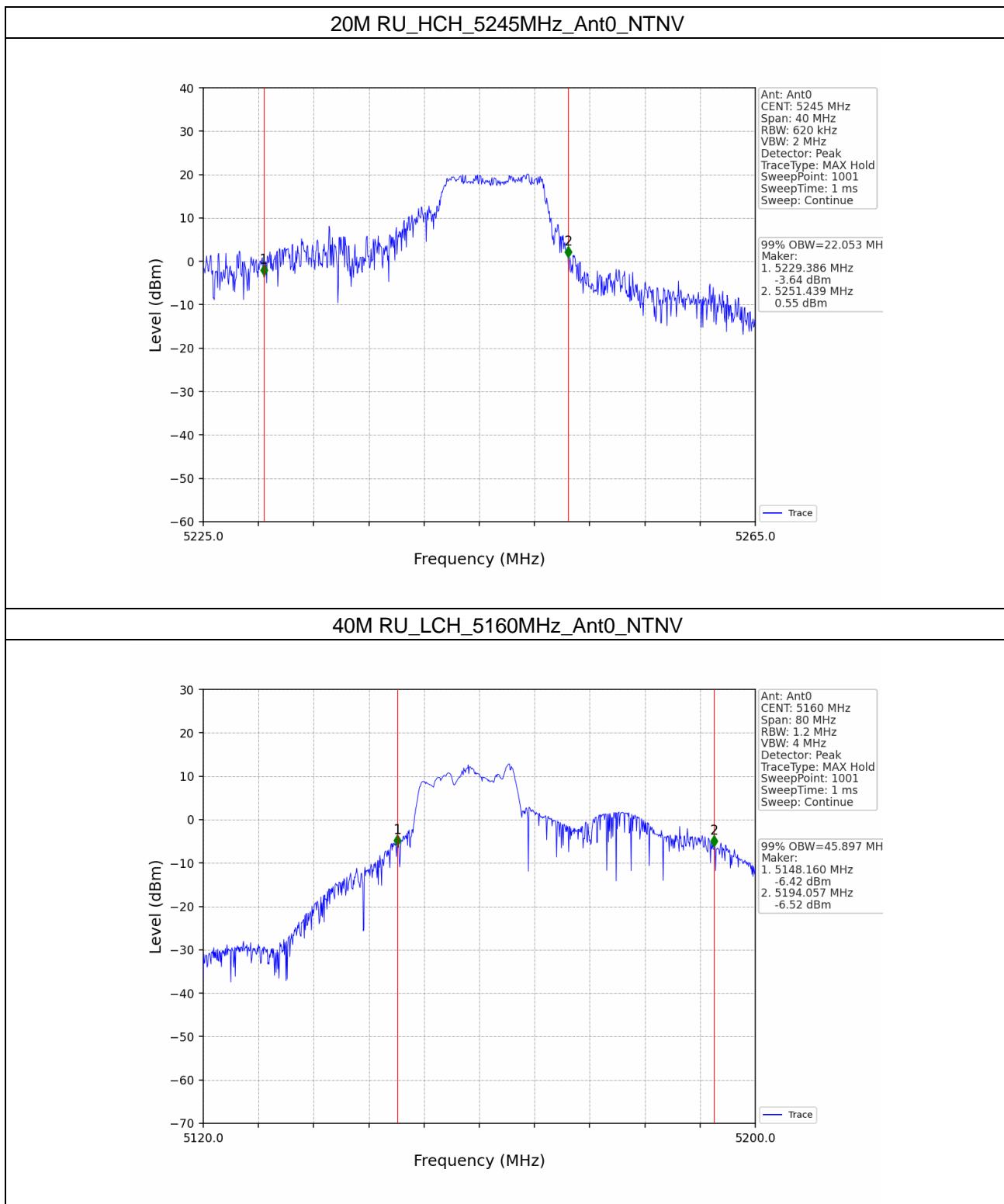
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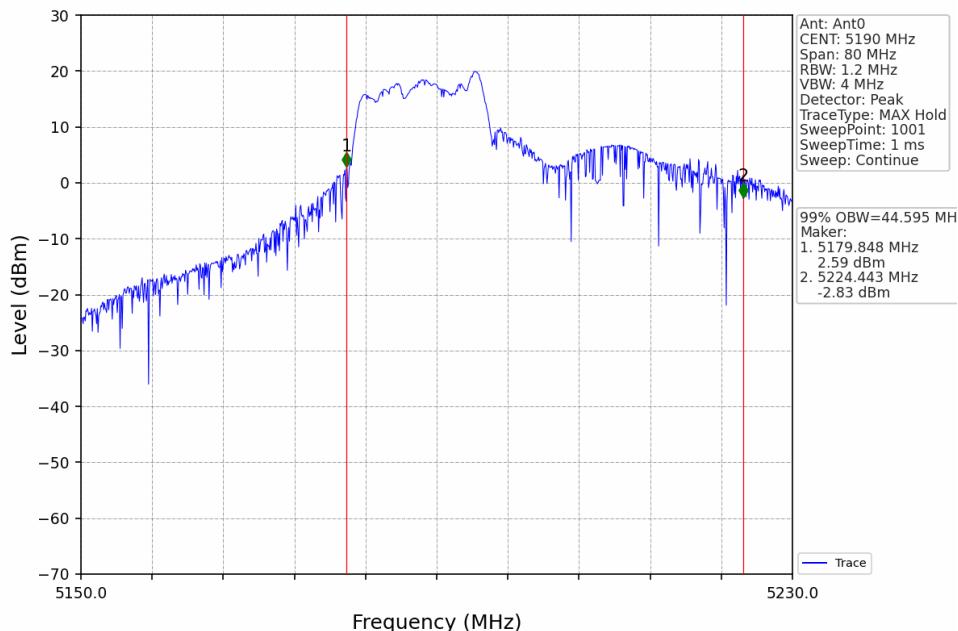
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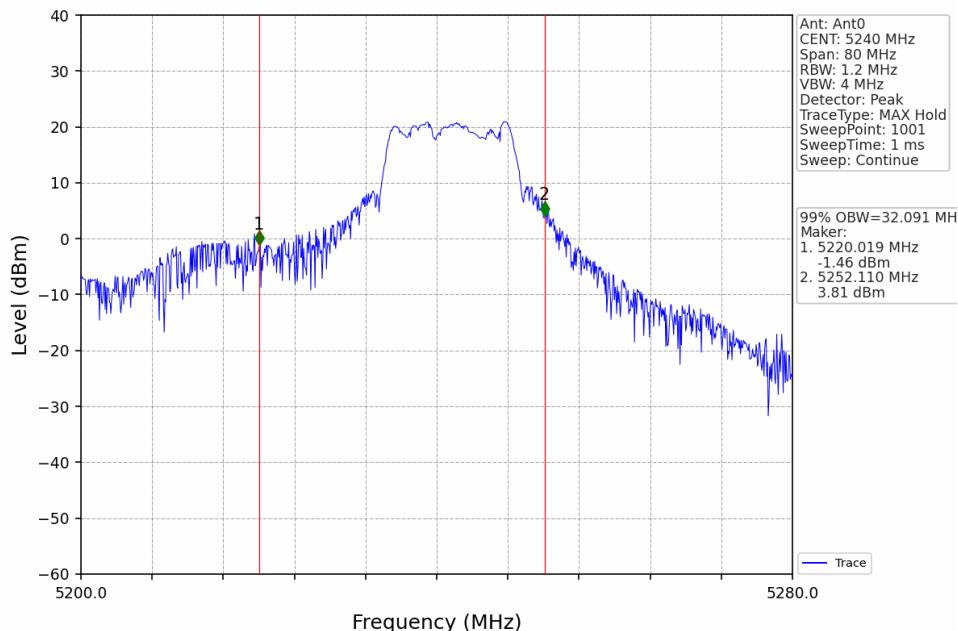
**2.1.2 Test Graph**



### 40M RU\_MCH\_5190MHz\_Ant0\_NTNV



### 40M RU\_HCH\_5240MHz\_Ant0\_NTNV



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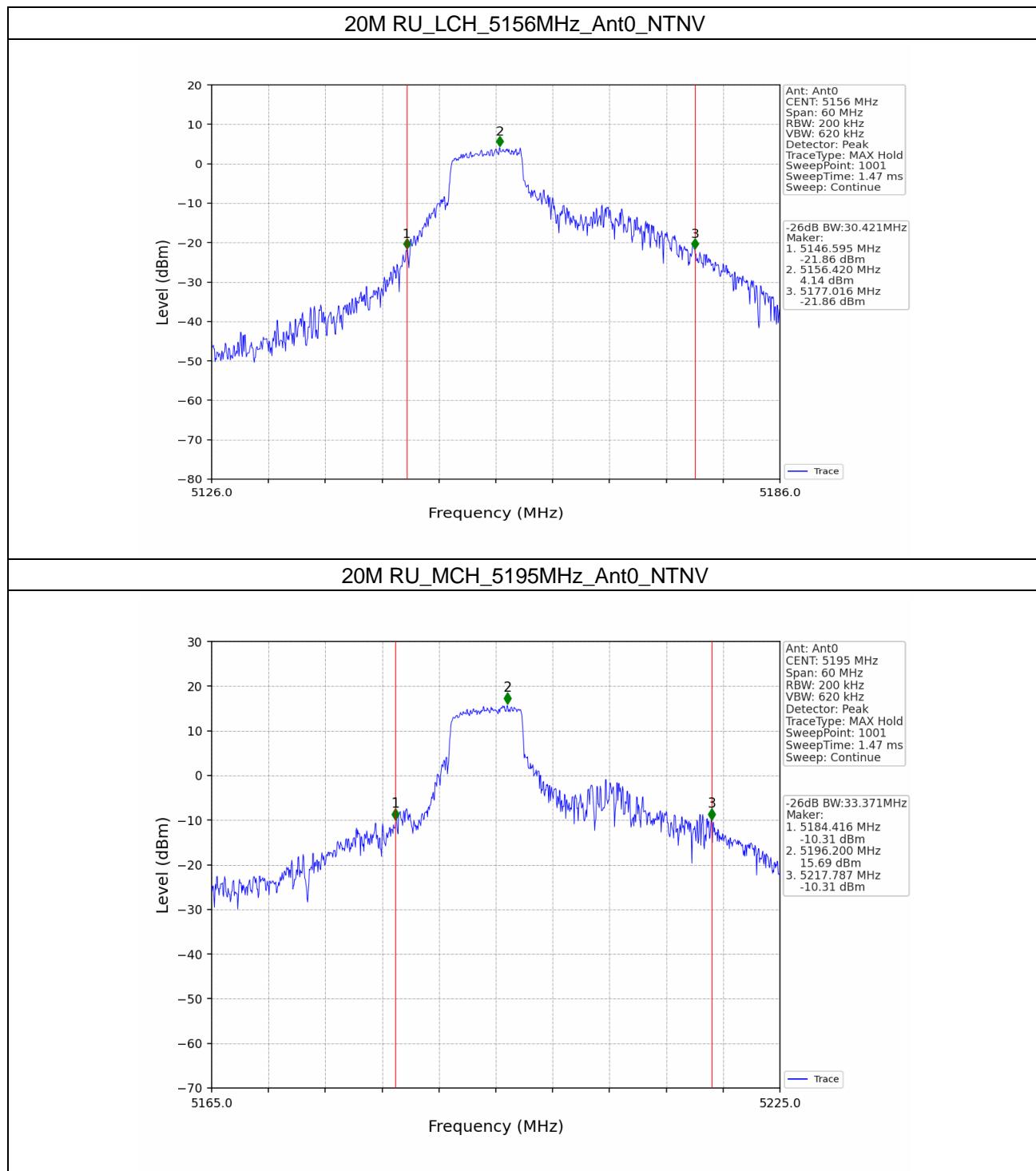
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**2.2 26dB BW****2.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
20M RU	SISO	5156	0	30.421	Pass
		5195	0	33.371	Pass
		5245	0	34.682	Pass
40M RU	SISO	5160	0	57.285	Pass
		5190	0	53.614	Pass
		5240	0	42.487	Pass



**2.2.2 Test Graph**

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