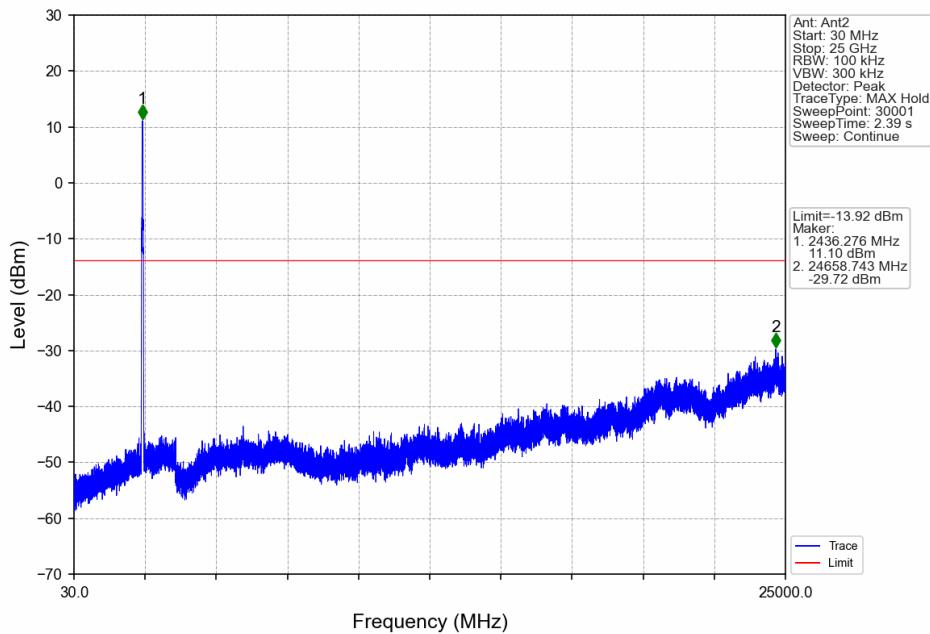
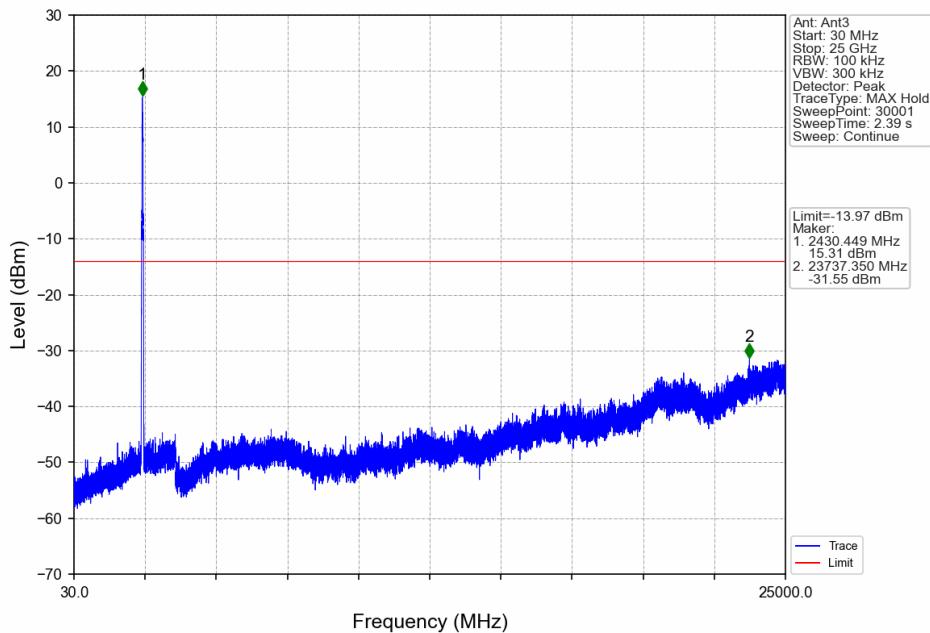


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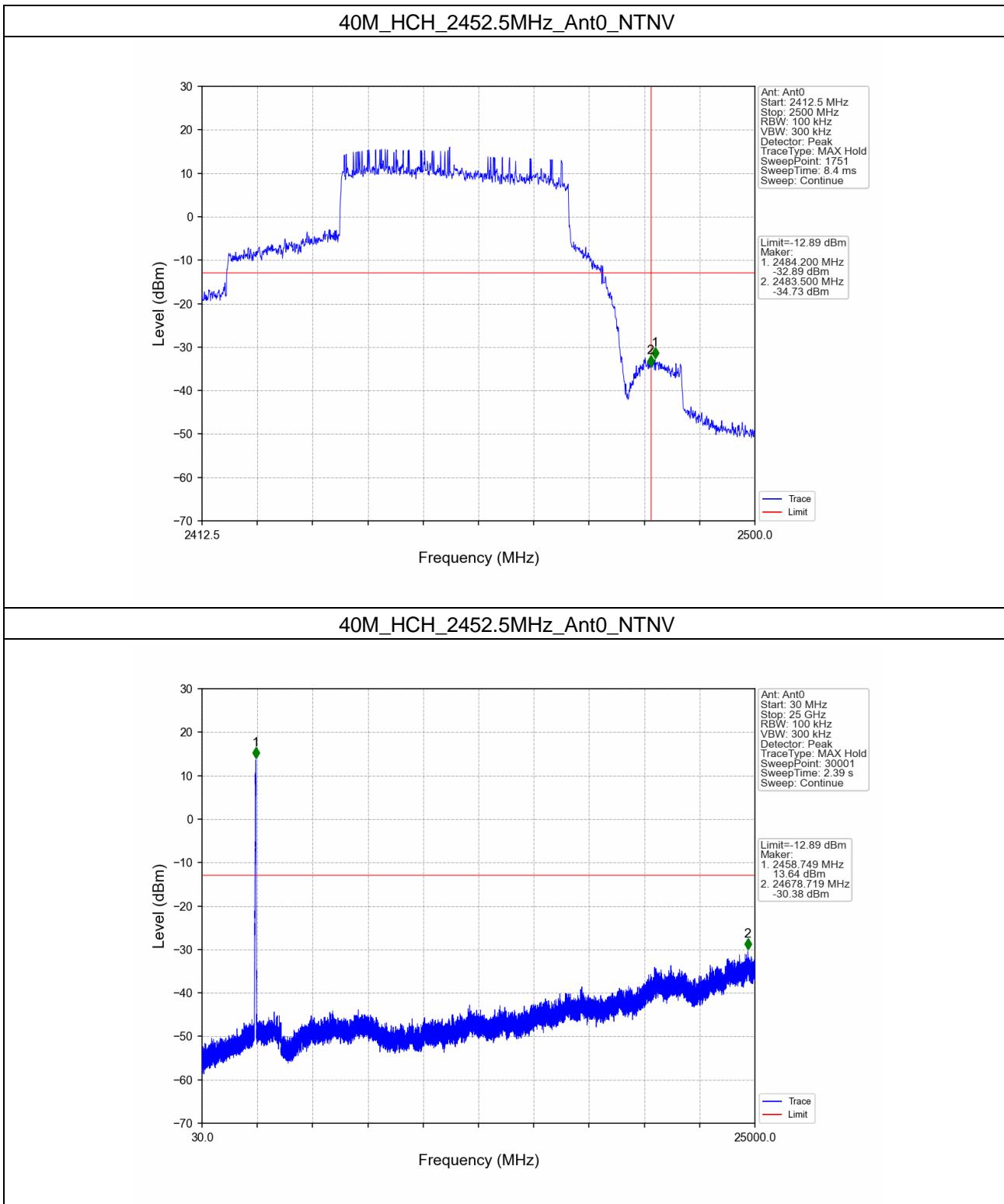


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**40M\_MCH\_2437.5MHz\_Ant2\_NTNV****40M\_MCH\_2437.5MHz\_Ant3\_NTNV**

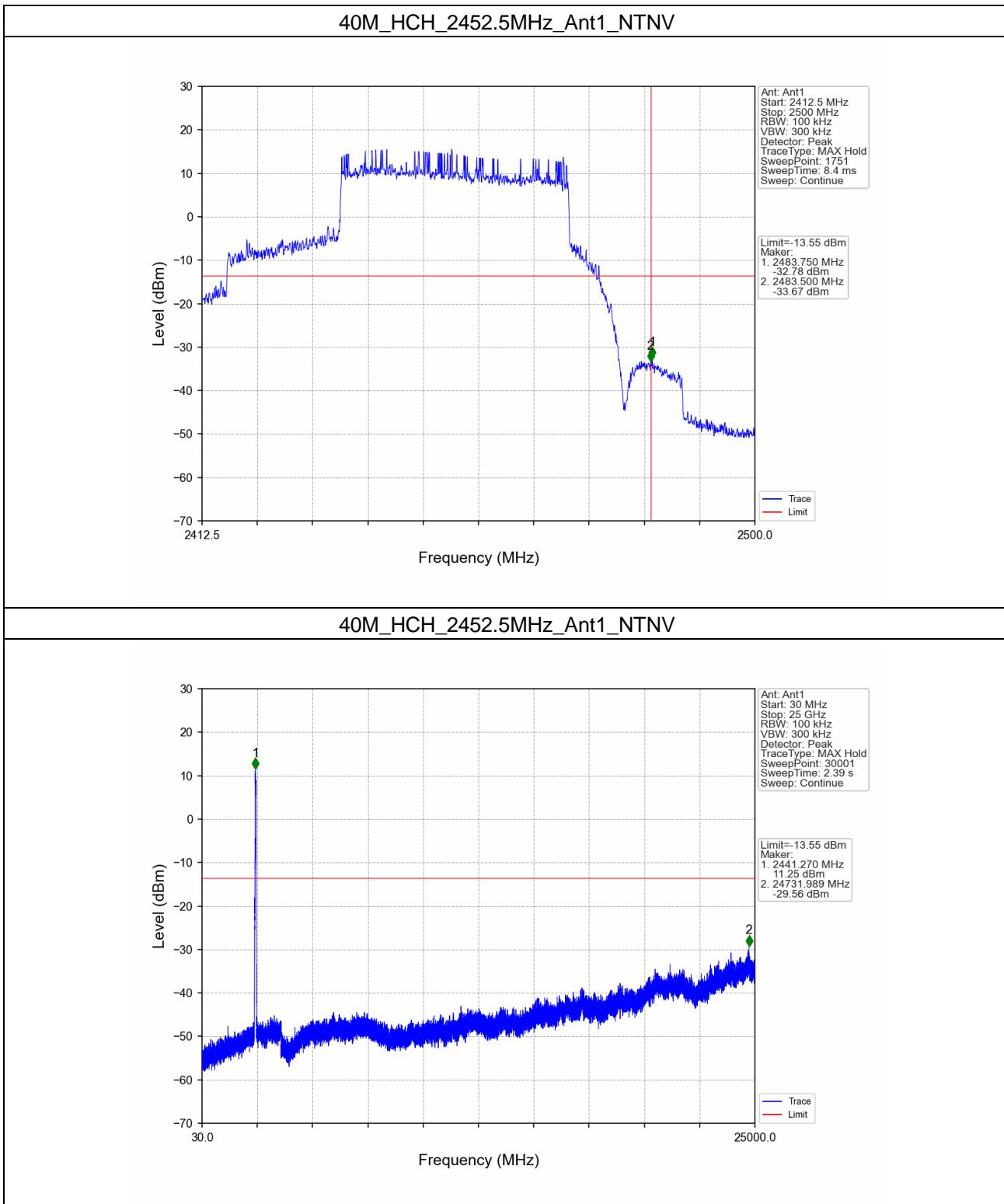
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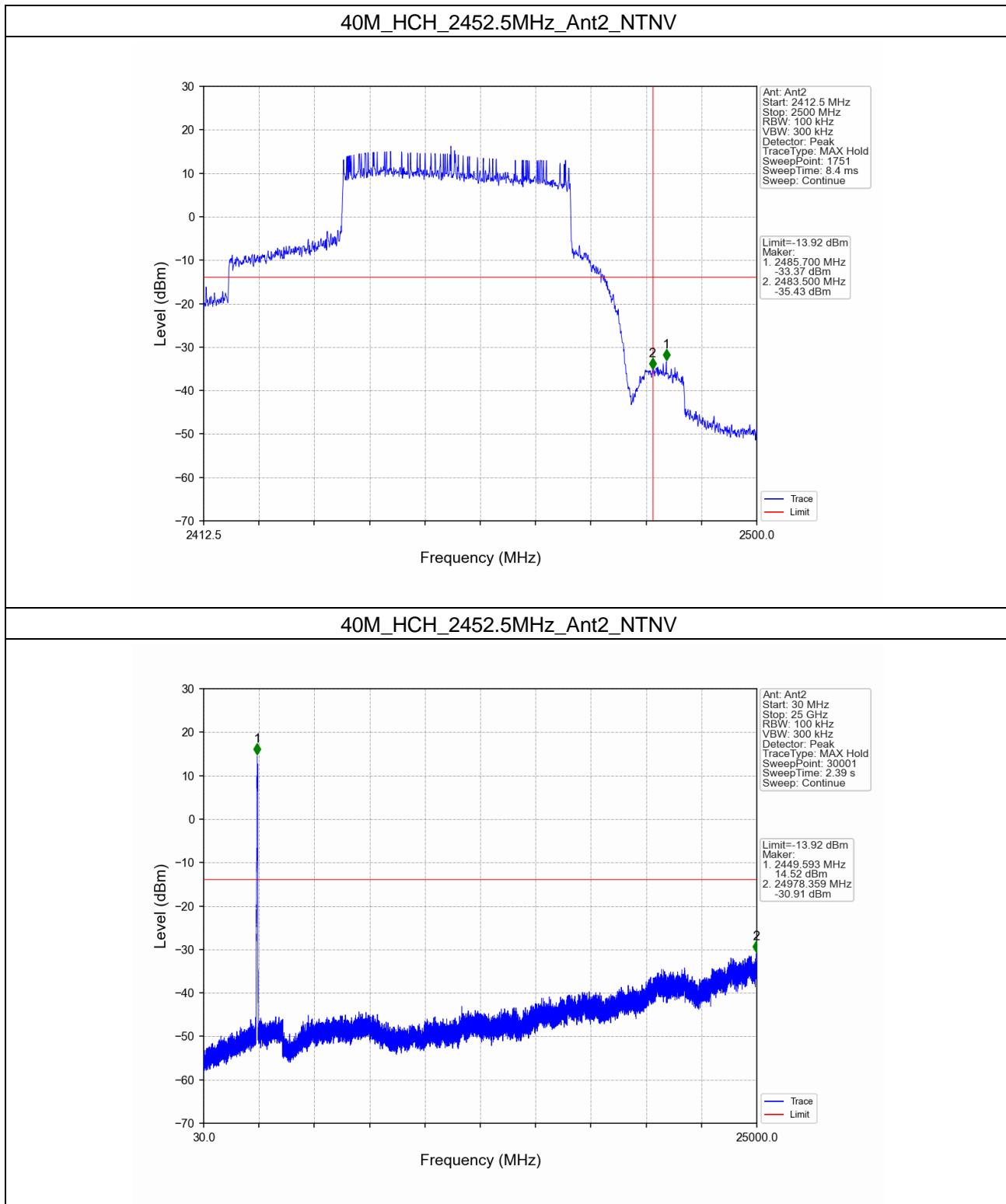
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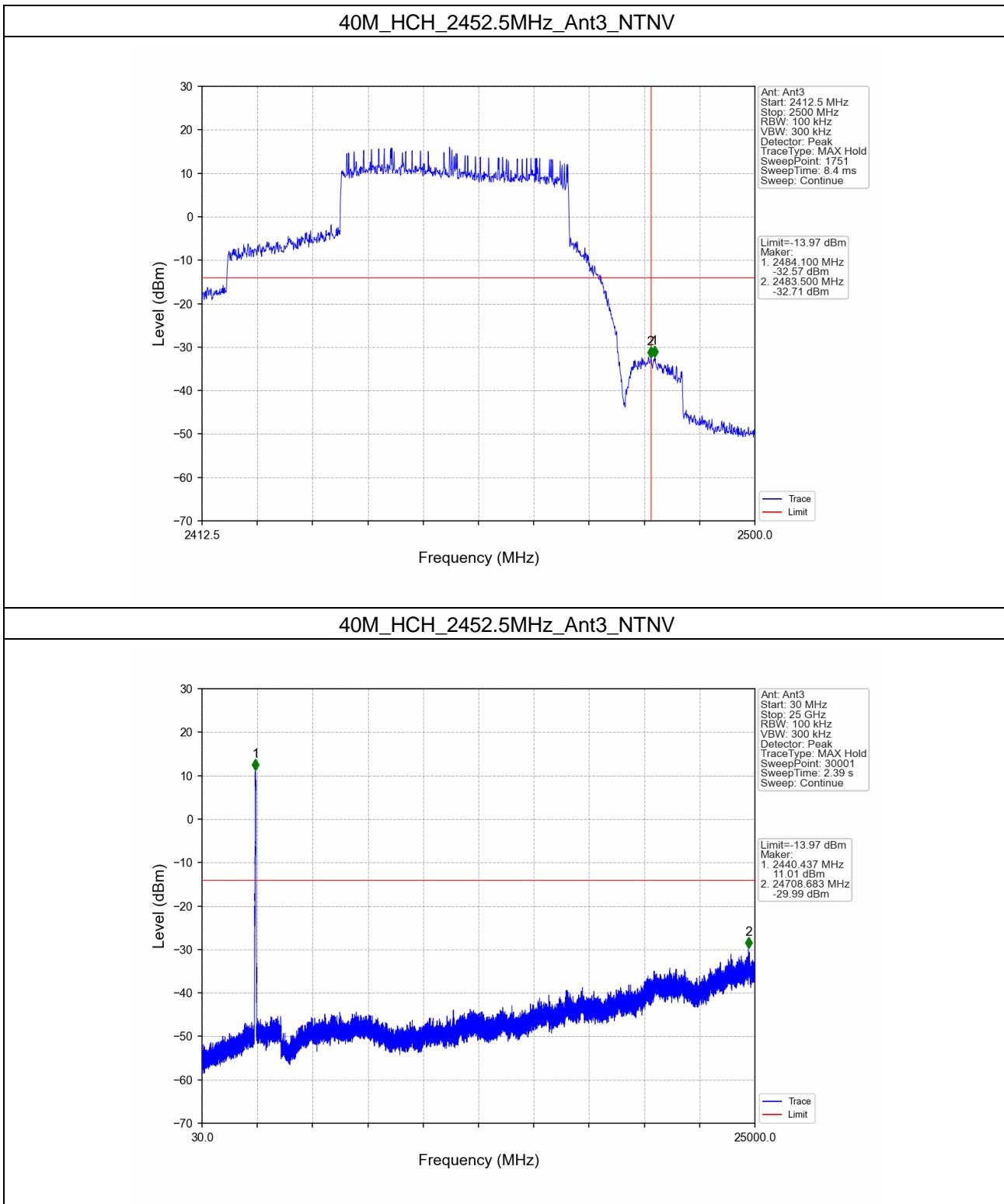
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**2.4G SDR MIMO Mode (ANT1 combined ANT2 is the worst-case, only the worst-case test data were reported)****1. Duty Cycle****1.1 Ant1****1.1.1 Test Result**

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1.4M	MIMO	2403.5	100.000	100.000	100.00	0.00	0.00
		2437.5	100.000	100.000	100.00	0.00	0.00
		2471.12	100.000	100.000	100.00	0.00	0.00
3M	MIMO	2405.5	100.000	100.000	100.00	0.00	0.00
		2438.2	100.000	100.000	100.00	0.00	0.00
		2471.2	100.000	100.000	100.00	0.00	0.00
10M	MIMO	2407.5	100.000	100.000	100.00	0.00	0.00
		2437.5	100.000	100.000	100.00	0.00	0.00
		2467.5	100.000	100.000	100.00	0.00	0.00
20M	MIMO	2412.5	100.000	100.000	100.00	0.00	0.00
		2437.5	100.000	100.000	100.00	0.00	0.00
		2462.5	100.000	100.000	100.00	0.00	0.00
40M	MIMO	2422.5	100.000	100.000	100.00	0.00	0.00
		2437.5	100.000	100.000	100.00	0.00	0.00
		2452.5	100.000	100.000	100.00	0.00	0.00

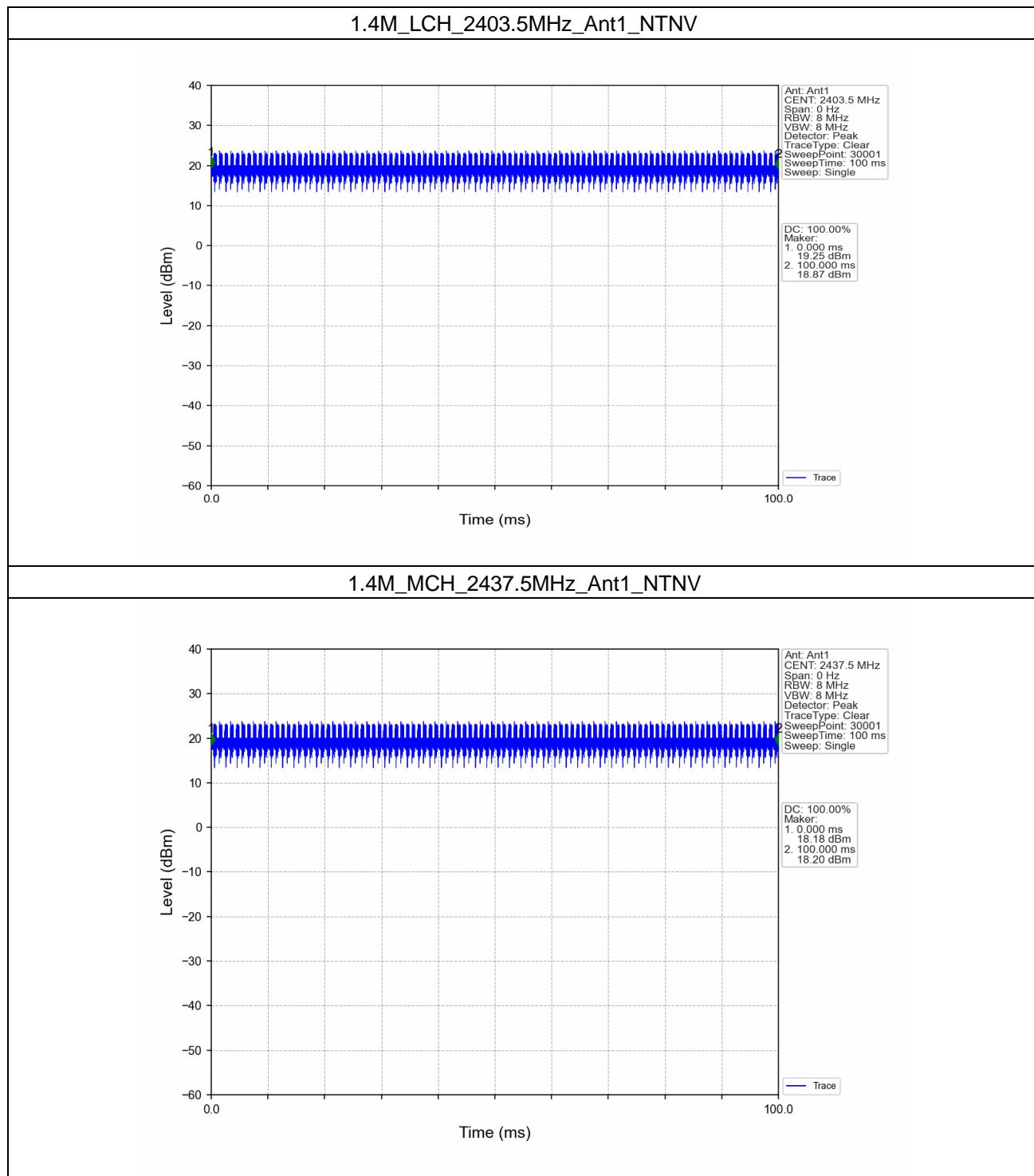
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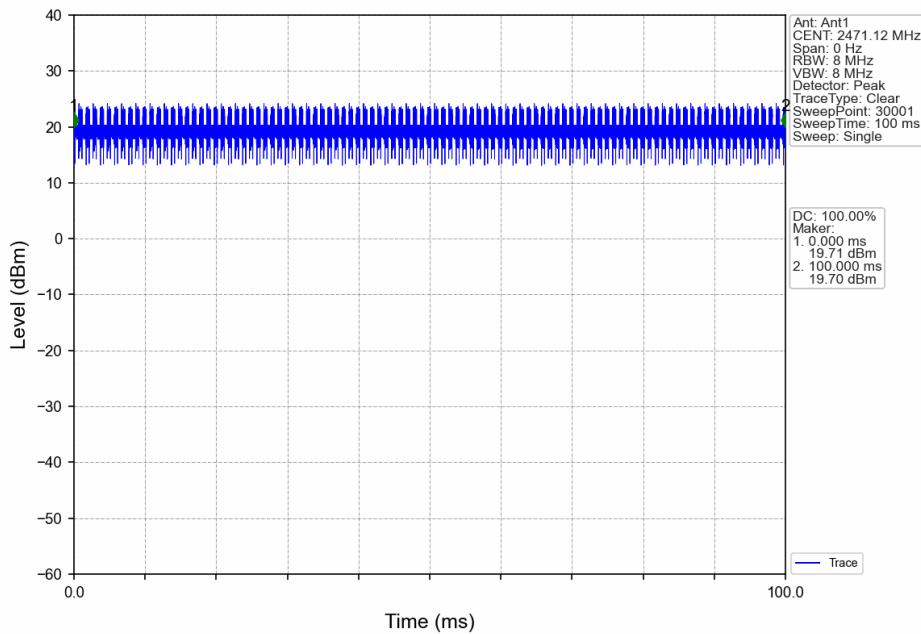
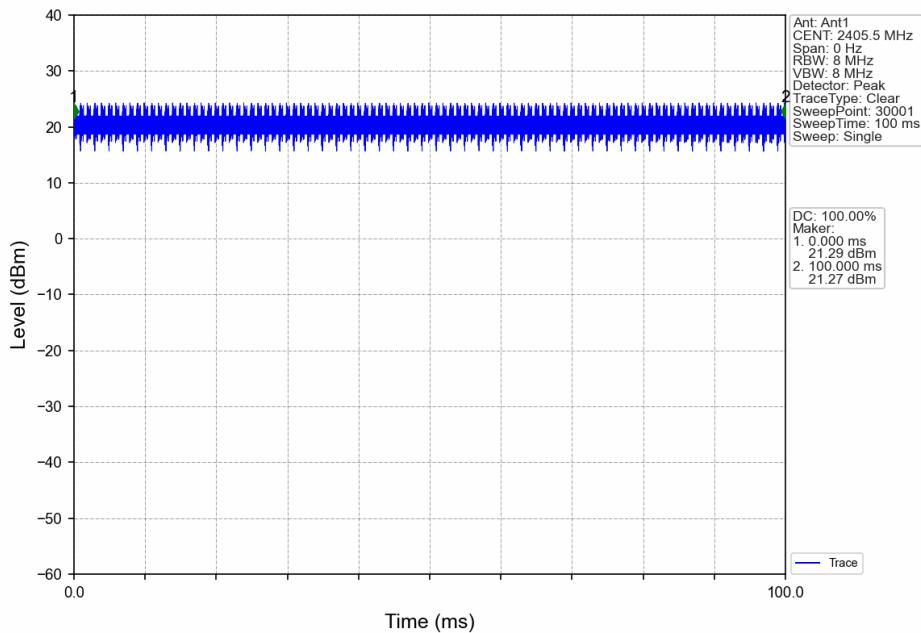
**1.1.2 Test Graph**

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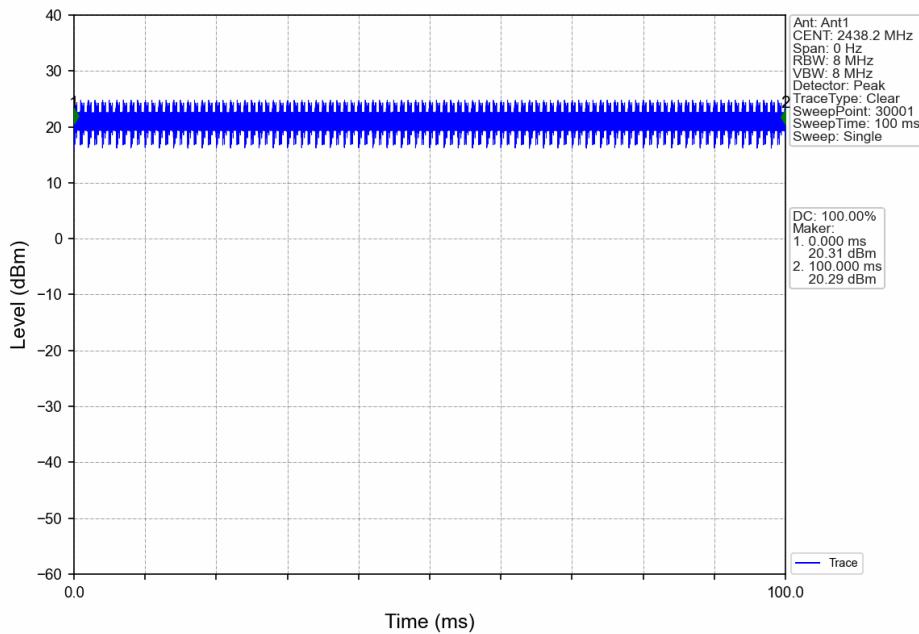
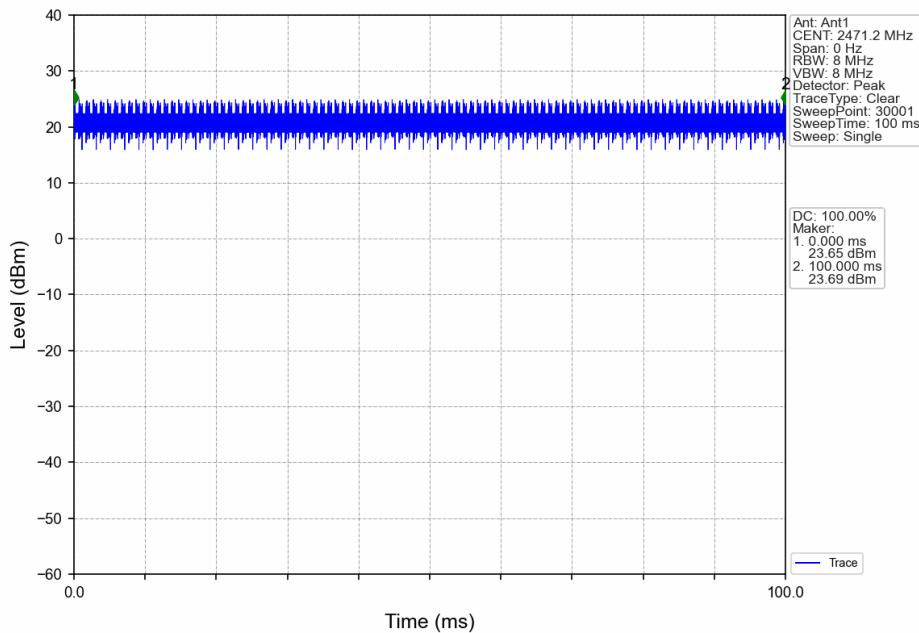
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**1.4M\_HCH\_2471.12MHz\_Ant1\_NTNV****3M\_LCH\_2405.5MHz\_Ant1\_NTNV**

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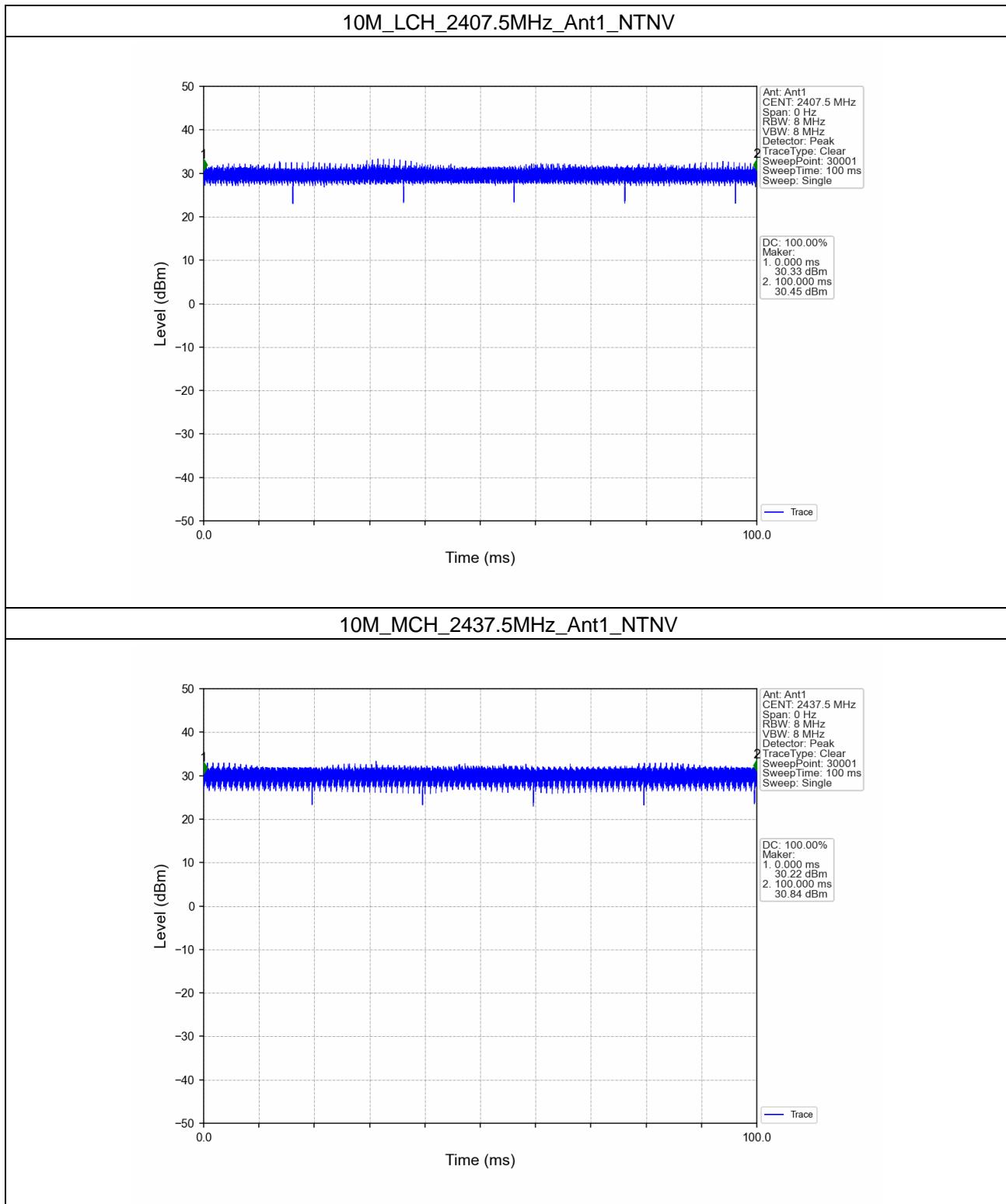
**3M\_MCH\_2438.2MHz\_Ant1\_NTNV****3M\_HCH\_2471.2MHz\_Ant1\_NTNV**

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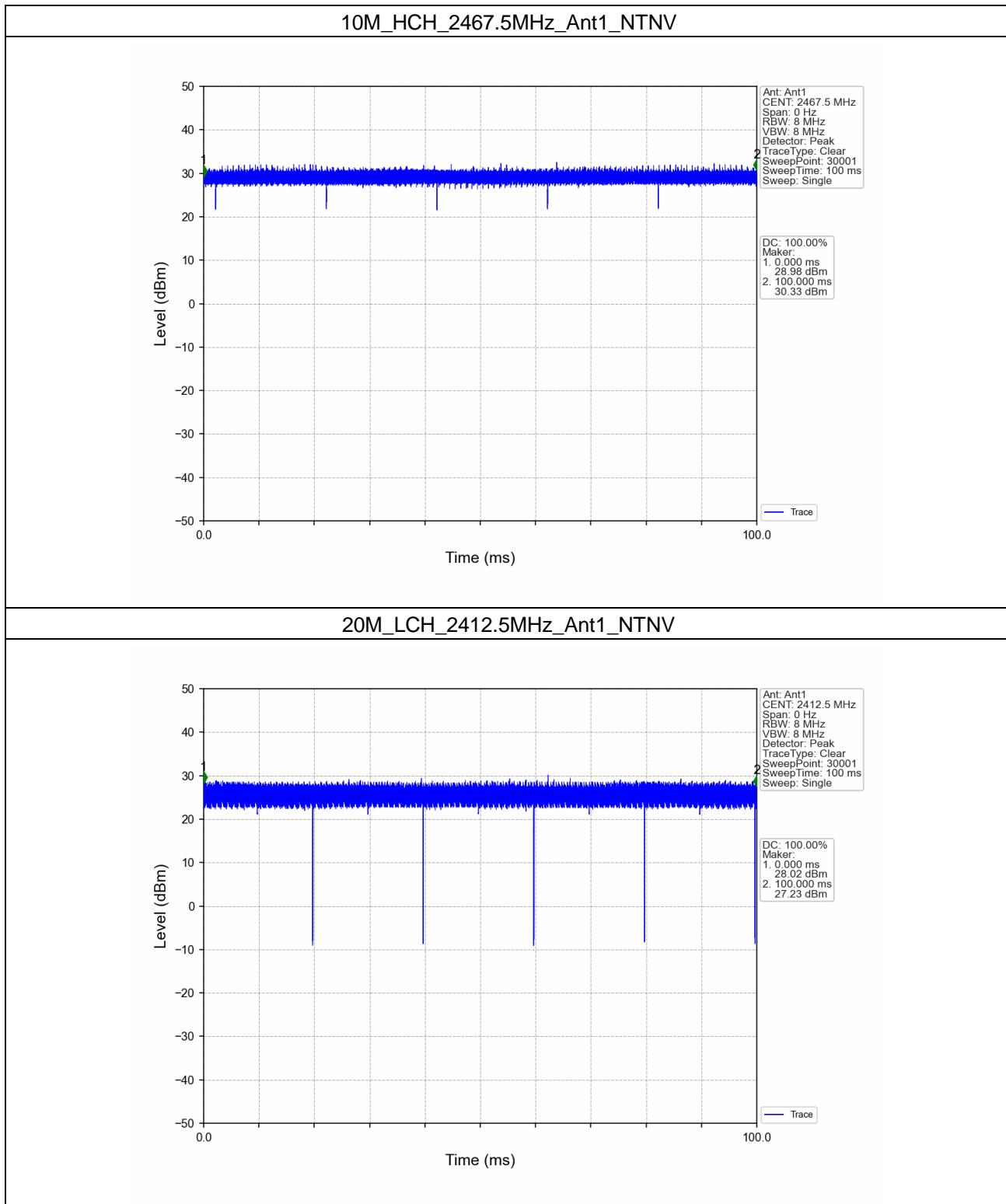
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Shenzhen Branch Inspection & Testing Services Laboratory



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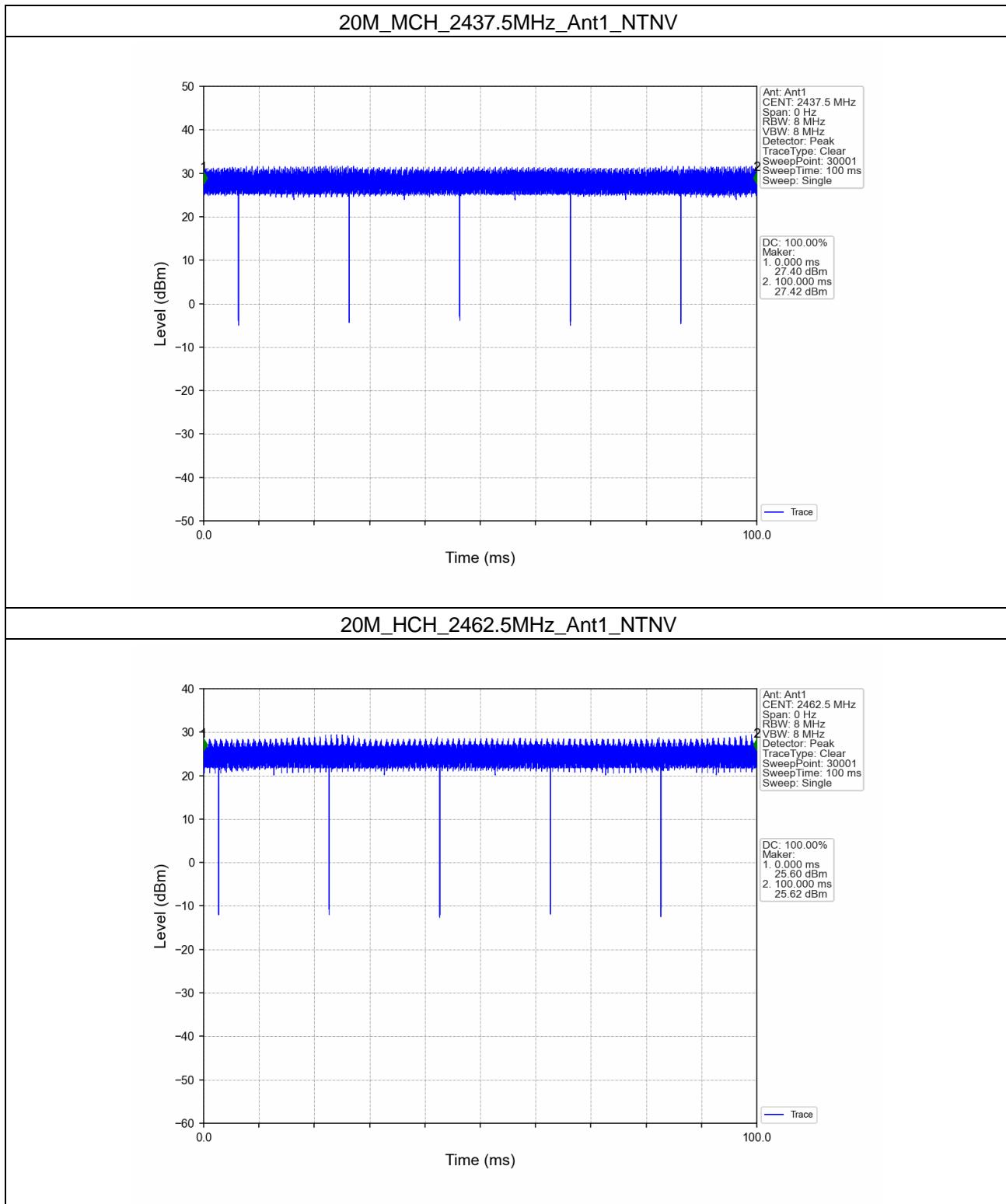


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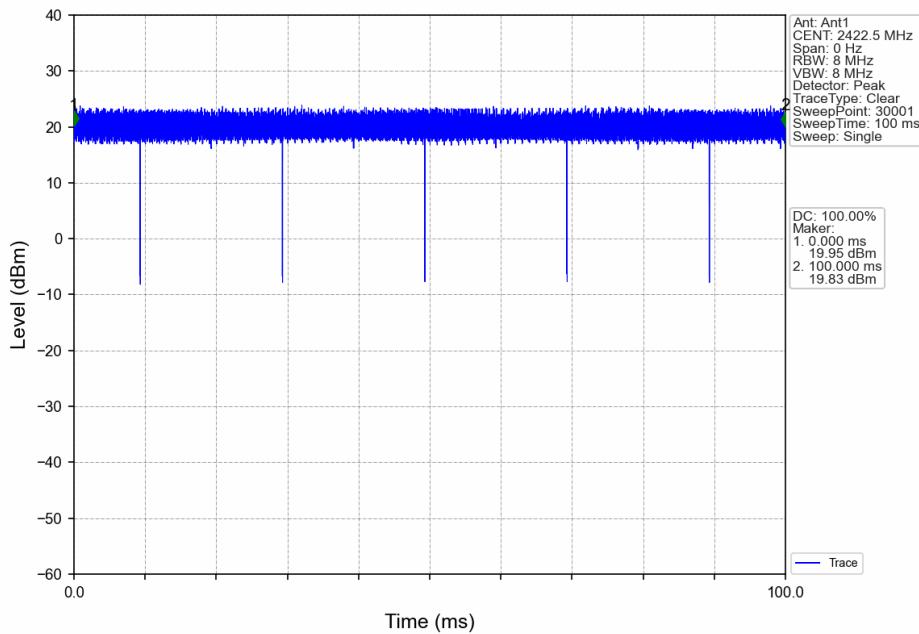
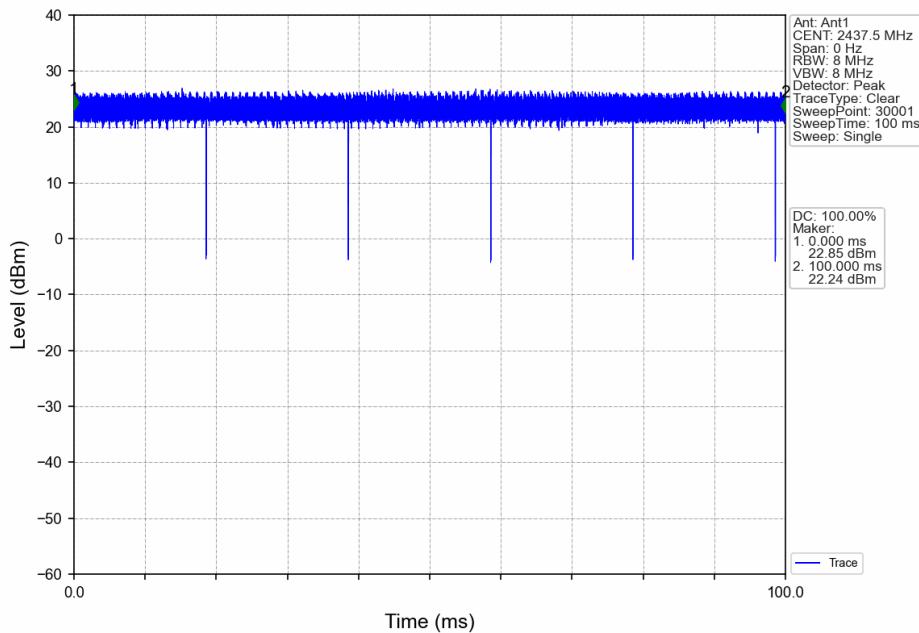


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**40M\_LCH\_2422.5MHz\_Ant1\_NTNV****40M\_MCH\_2437.5MHz\_Ant1\_NTNV**

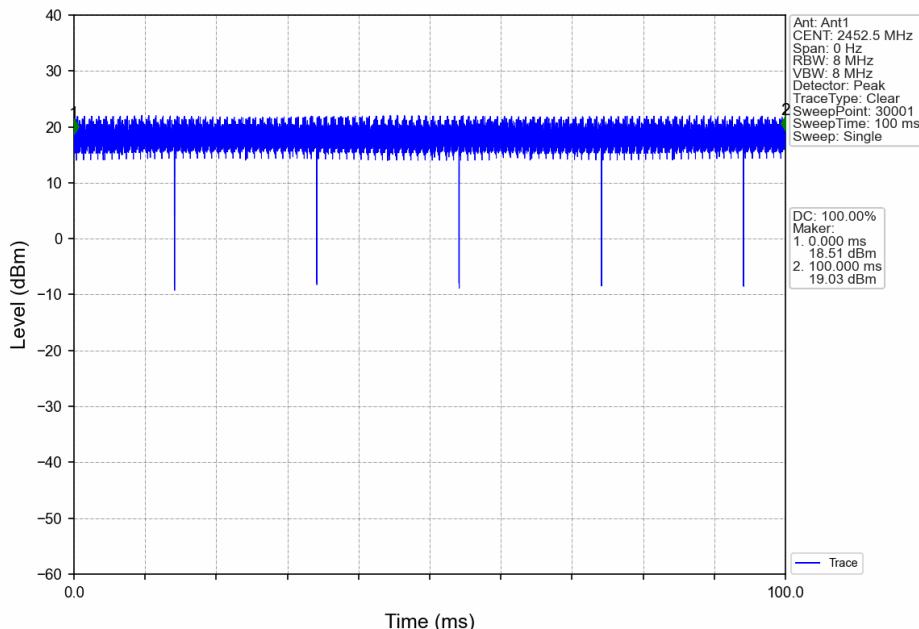
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### 40M\_HCH\_2452.5MHz\_Ant1\_NTNV



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## 2. Bandwidth

### 2.1 OBW

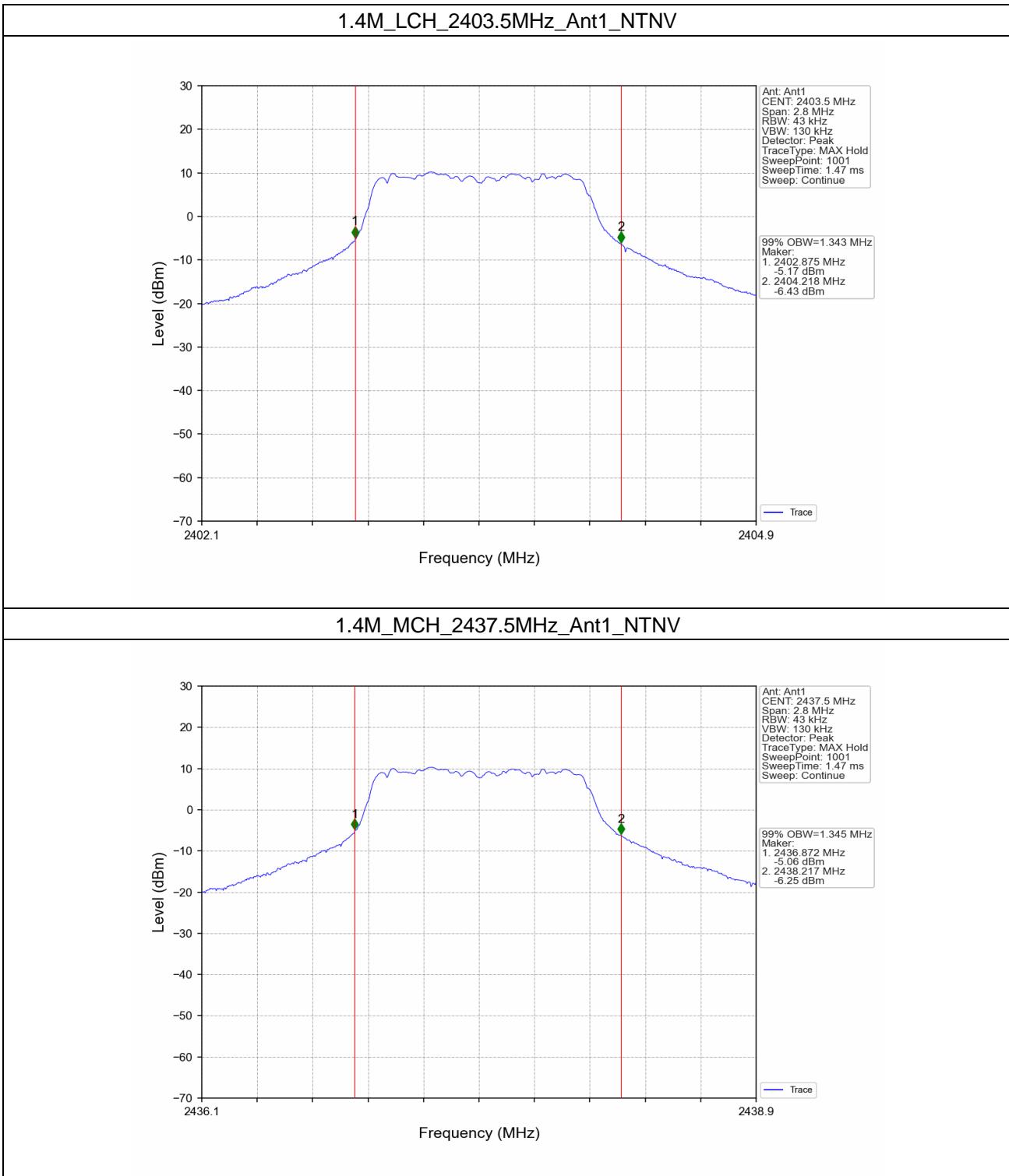
#### 2.1.1 Test Result

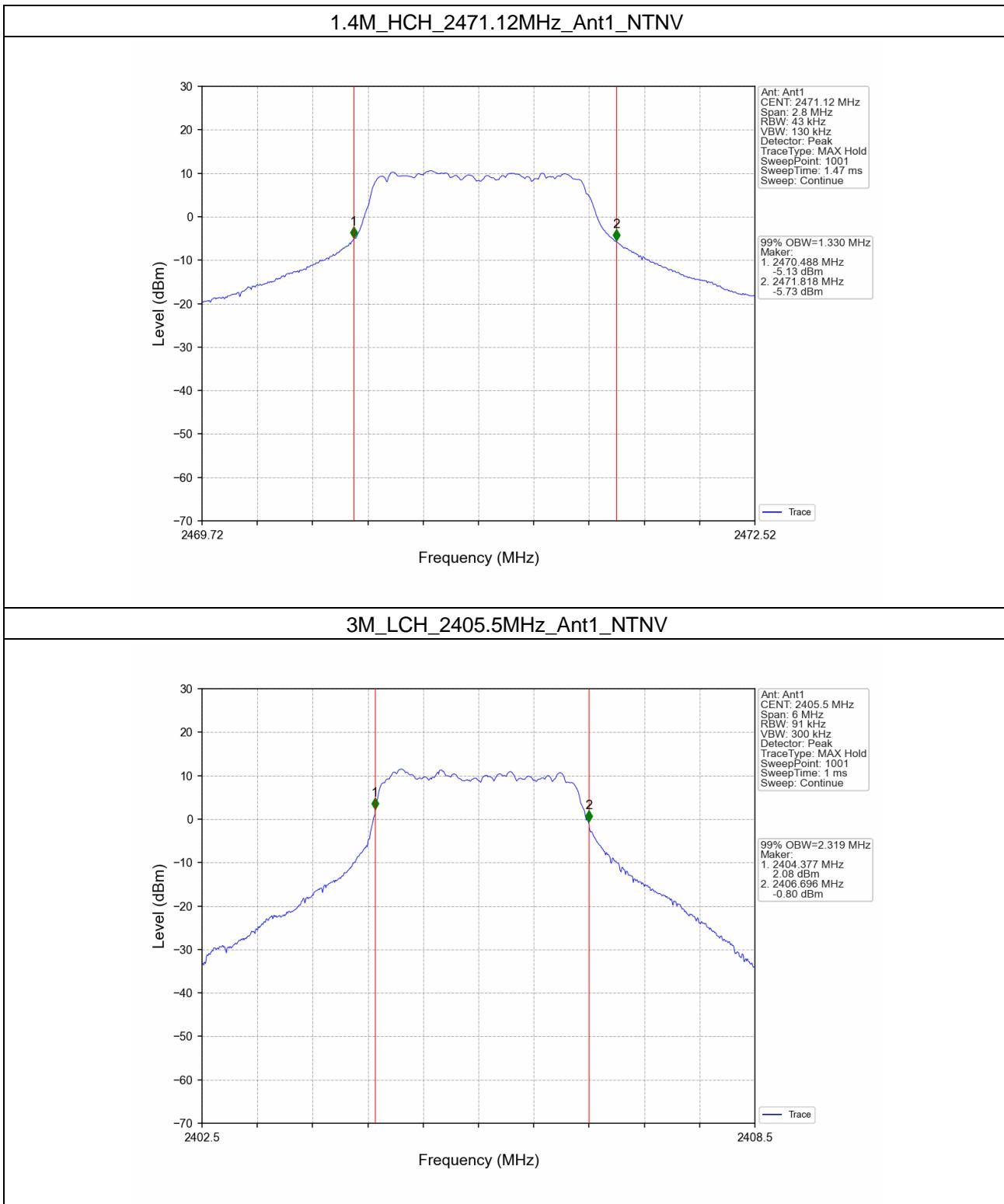
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
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		2437.5	1	1.345	/	Pass
		2471.12	1	1.330	/	Pass
3M	MIMO	2405.5	1	2.319	/	Pass
		2438.2	1	2.324	/	Pass
		2471.2	1	2.299	/	Pass
10M	MIMO	2407.5	1	9.016	/	Pass
		2437.5	1	9.020	/	Pass
		2467.5	1	8.969	/	Pass
20M	MIMO	2412.5	1	17.936	/	Pass
		2437.5	1	17.943	/	Pass
		2462.5	1	17.917	/	Pass
40M	MIMO	2422.5	1	36.402	/	Pass
		2437.5	1	36.274	/	Pass
		2452.5	1	36.182	/	Pass

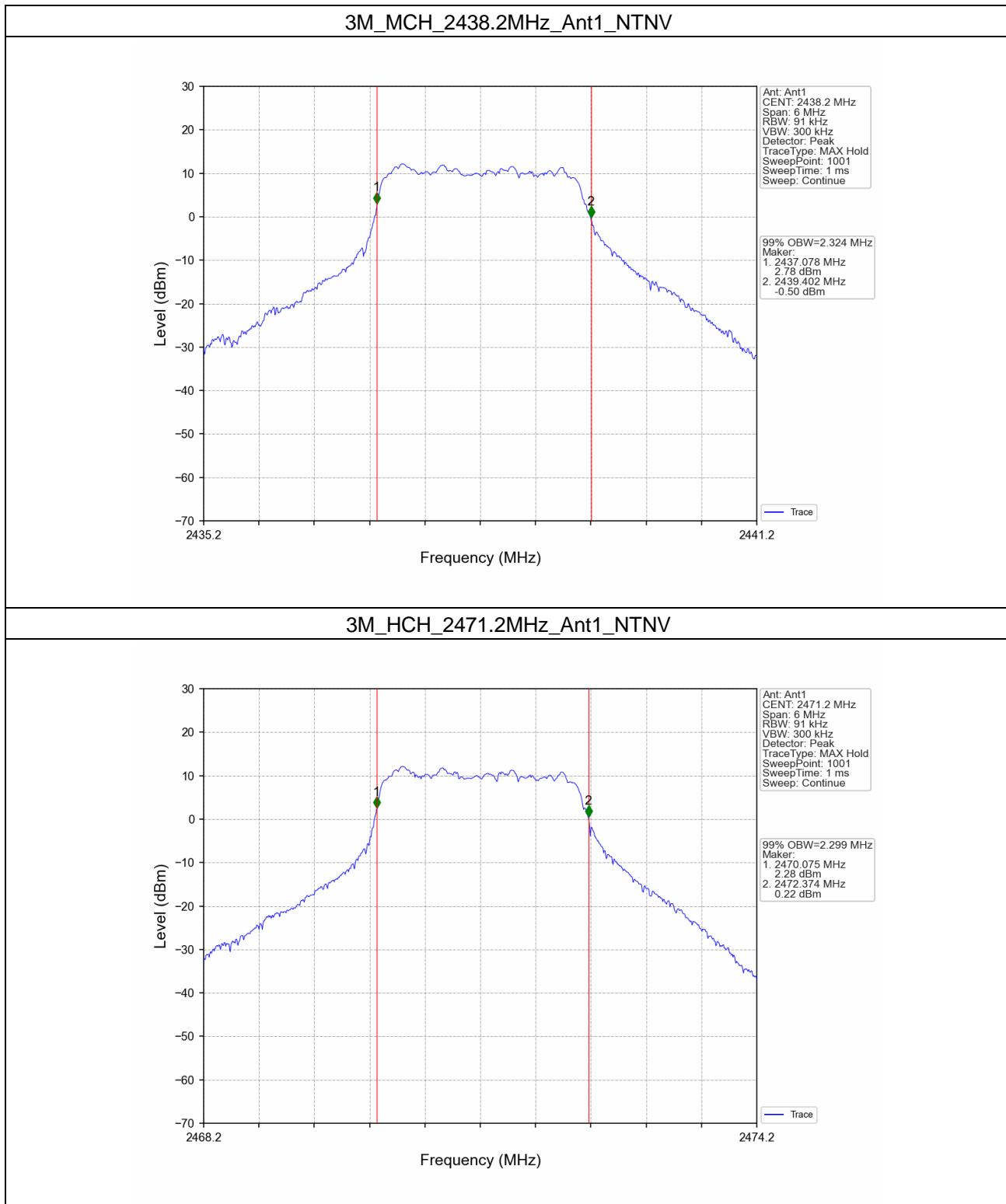
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**2.1.2 Test Graph**





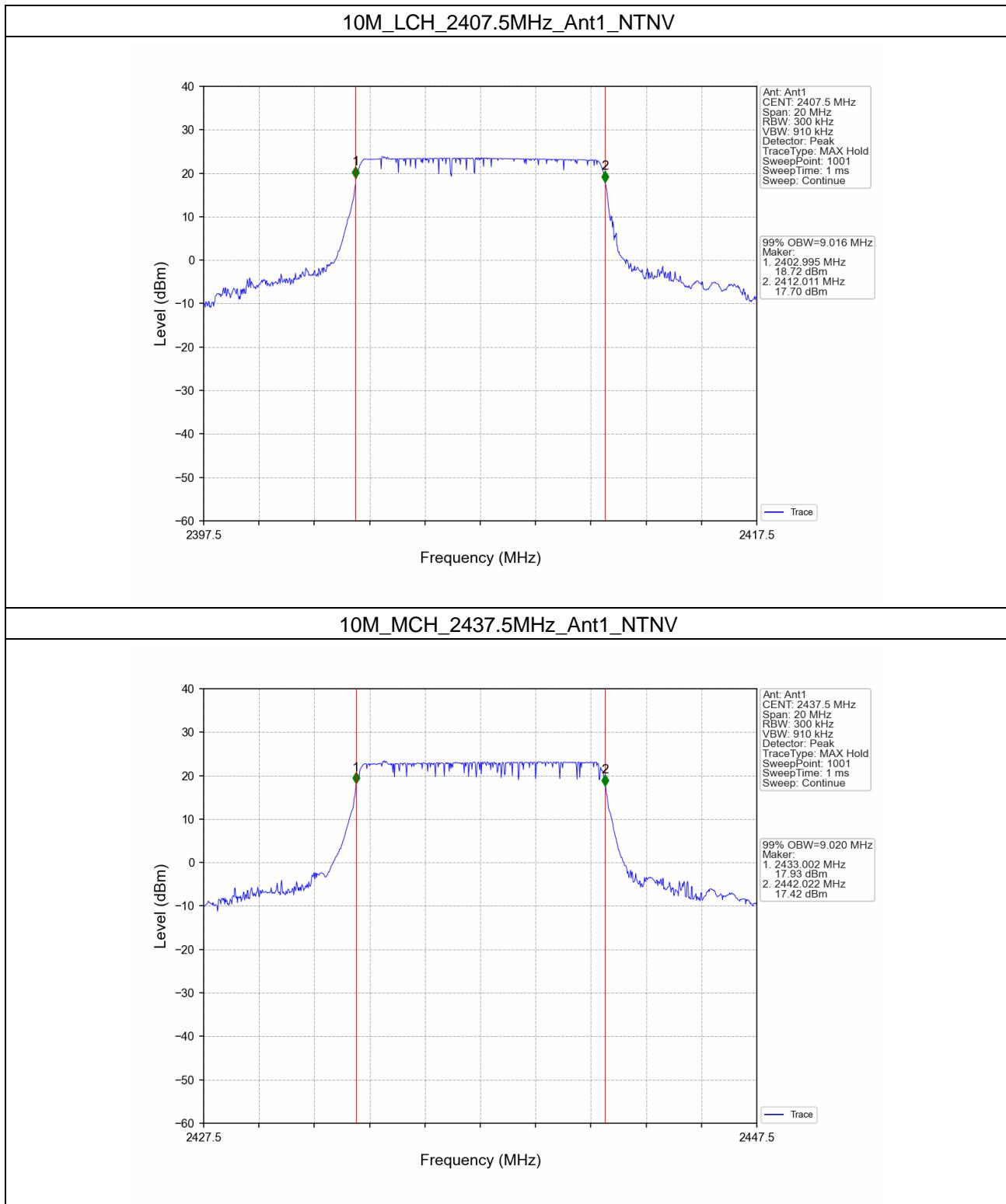
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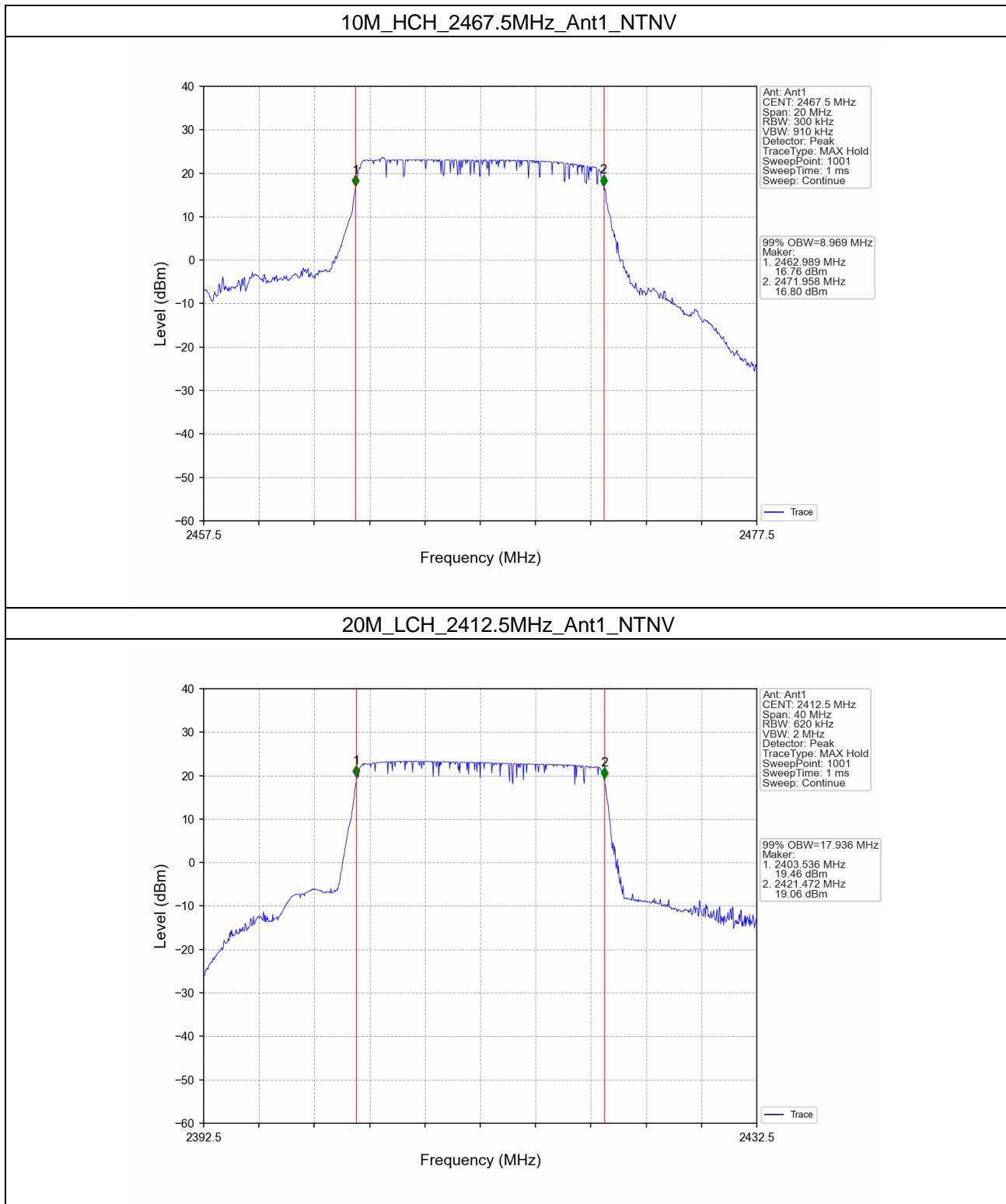
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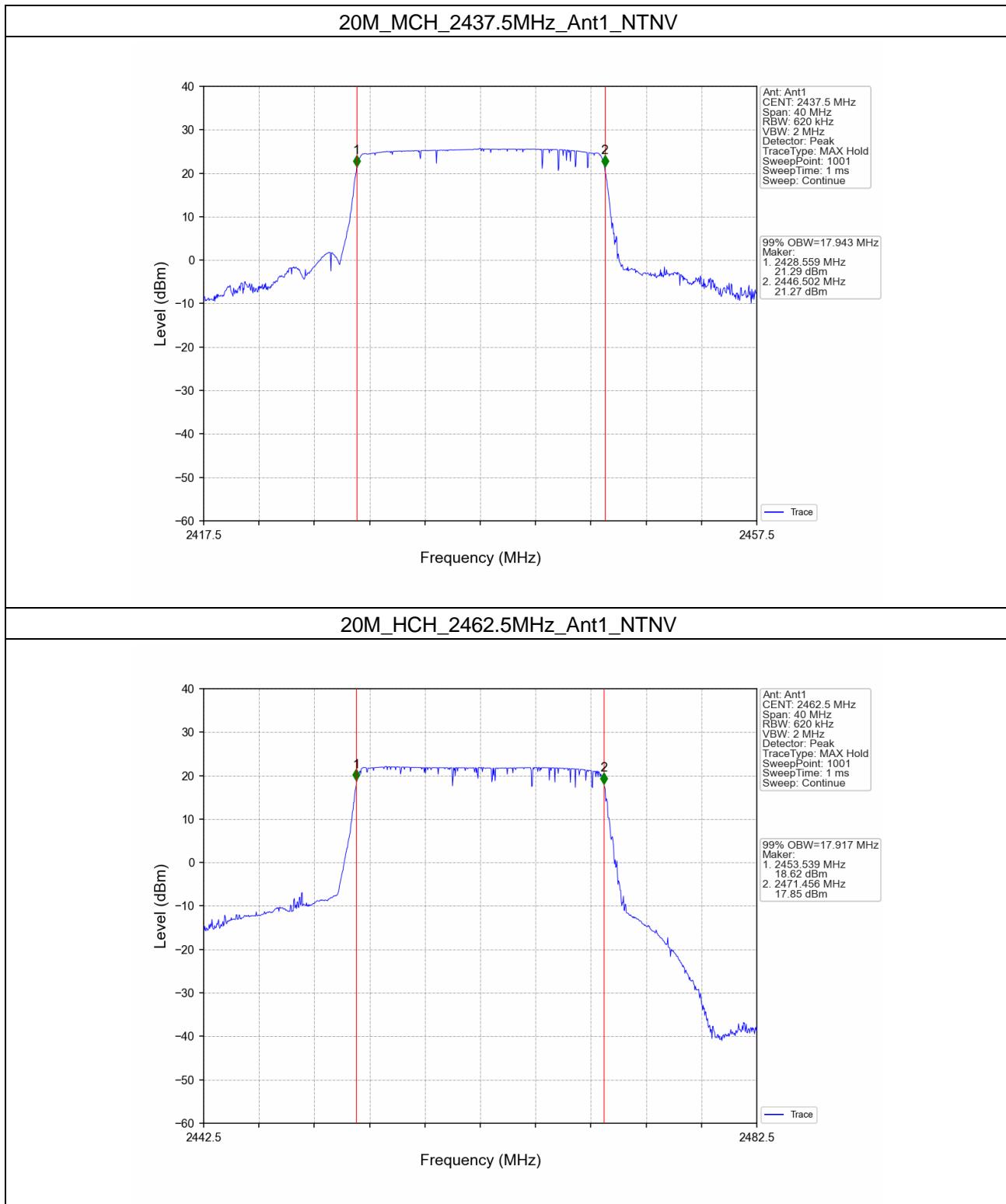


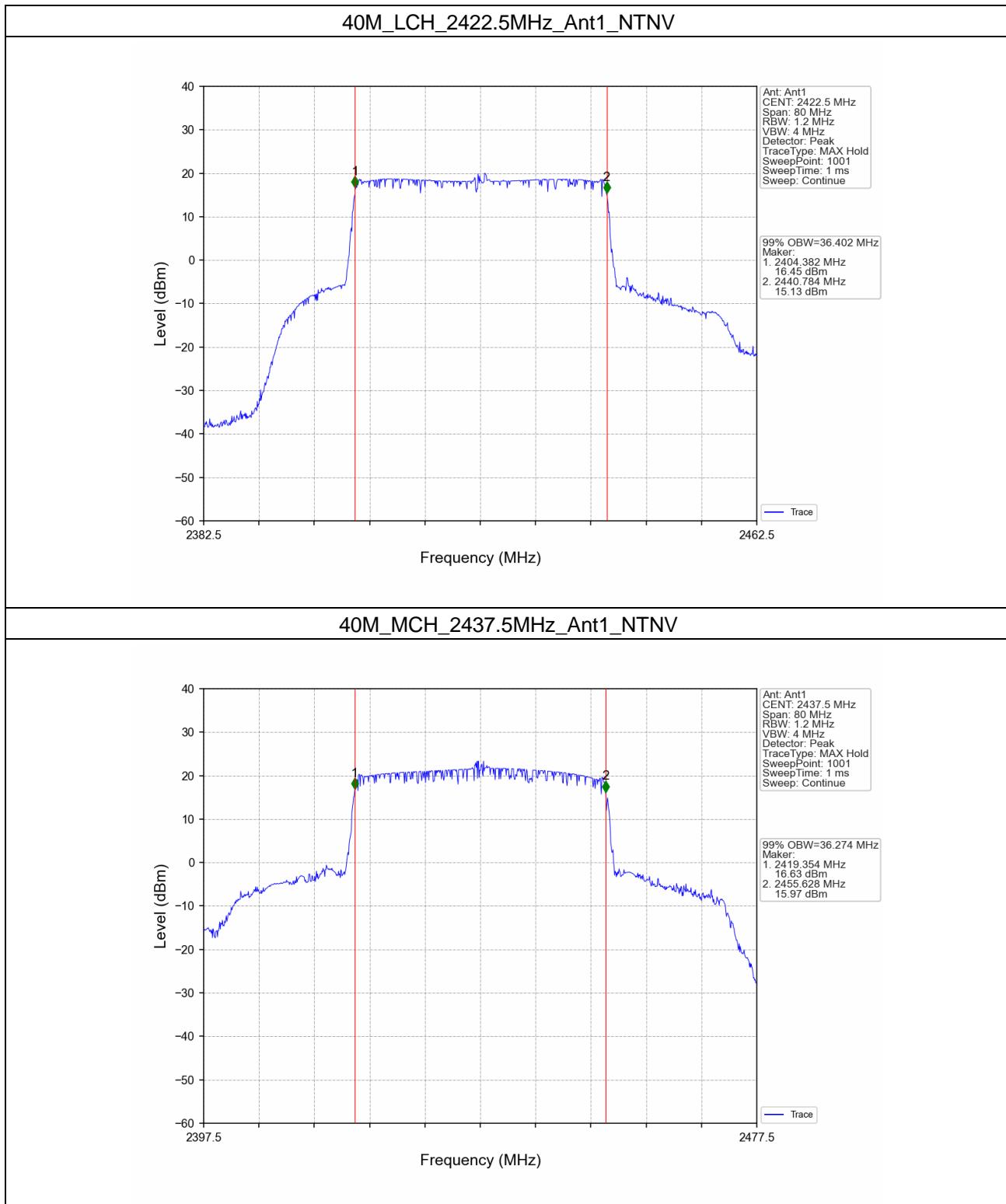
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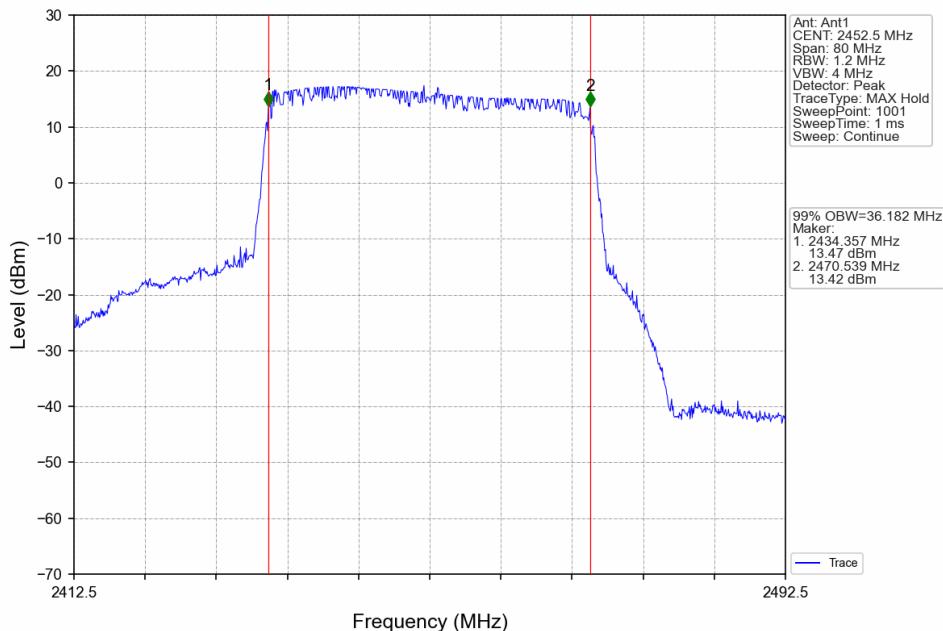


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### 40M\_HCH\_2452.5MHz\_Ant1\_NTNV



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**2.2 6dB BW****2.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	2403.5	1	1.108	>=0.5	Pass
		2437.5	1	1.109	>=0.5	Pass
		2471.12	1	1.105	>=0.5	Pass
3M	MIMO	2405.5	1	2.175	>=0.5	Pass
		2438.2	1	2.176	>=0.5	Pass
		2471.2	1	2.166	>=0.5	Pass
10M	MIMO	2407.5	1	8.991	>=0.5	Pass
		2437.5	1	9.023	>=0.5	Pass
		2467.5	1	9.016	>=0.5	Pass
20M	MIMO	2412.5	1	18.005	>=0.5	Pass
		2437.5	1	18.032	>=0.5	Pass
		2462.5	1	18.022	>=0.5	Pass
40M	MIMO	2422.5	1	36.019	>=0.5	Pass
		2437.5	1	35.358	>=0.5	Pass
		2452.5	1	36.005	>=0.5	Pass

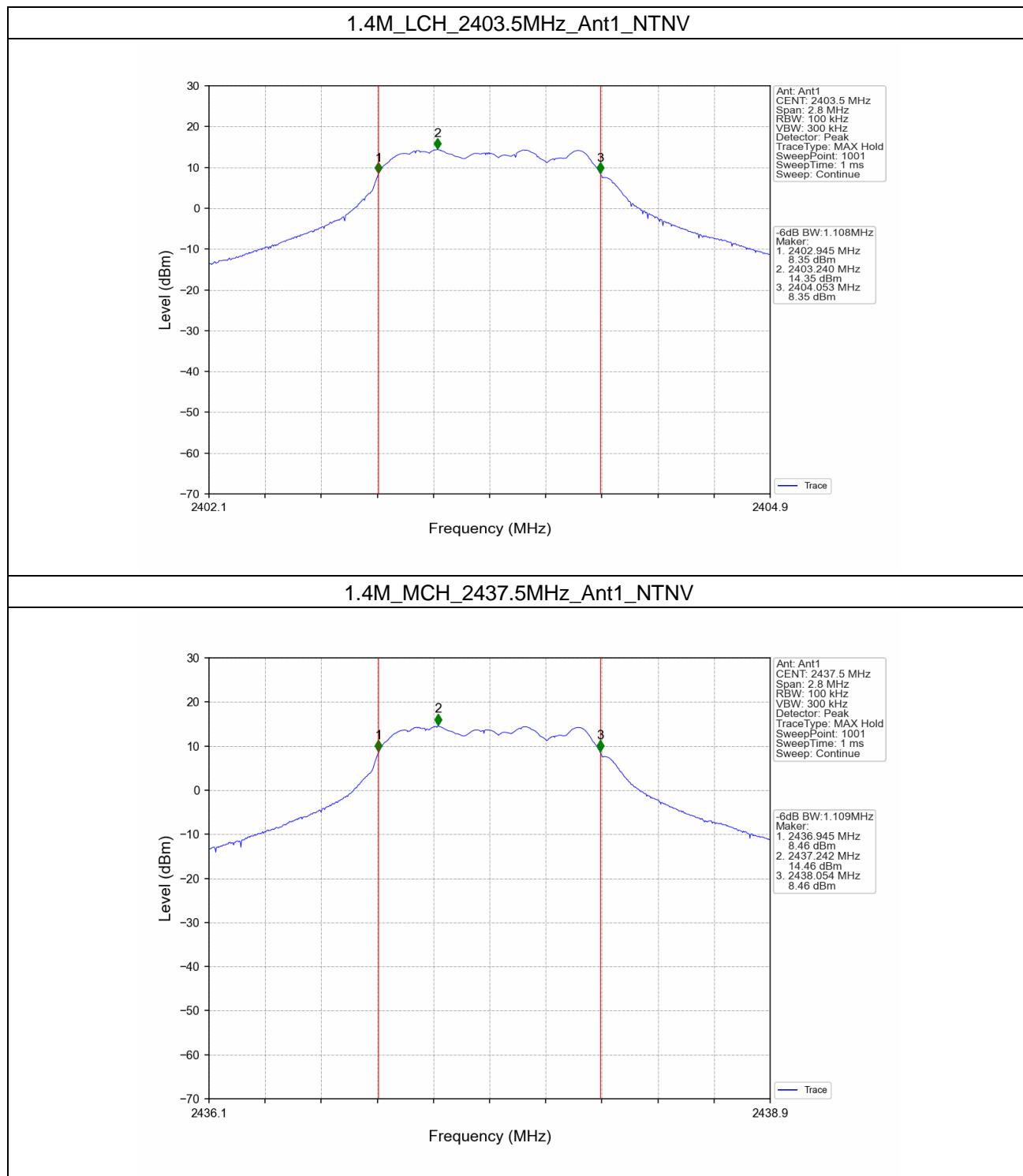
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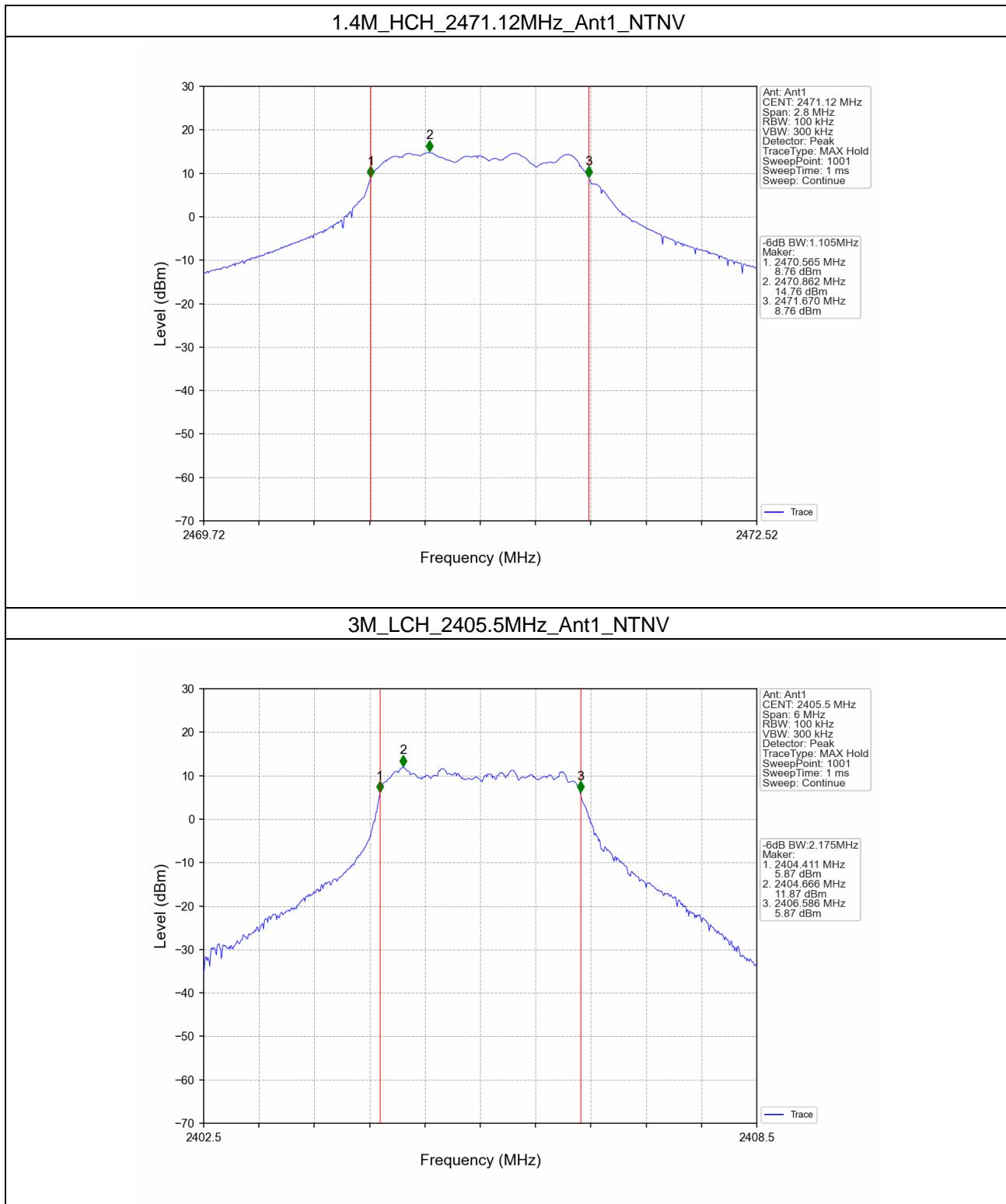
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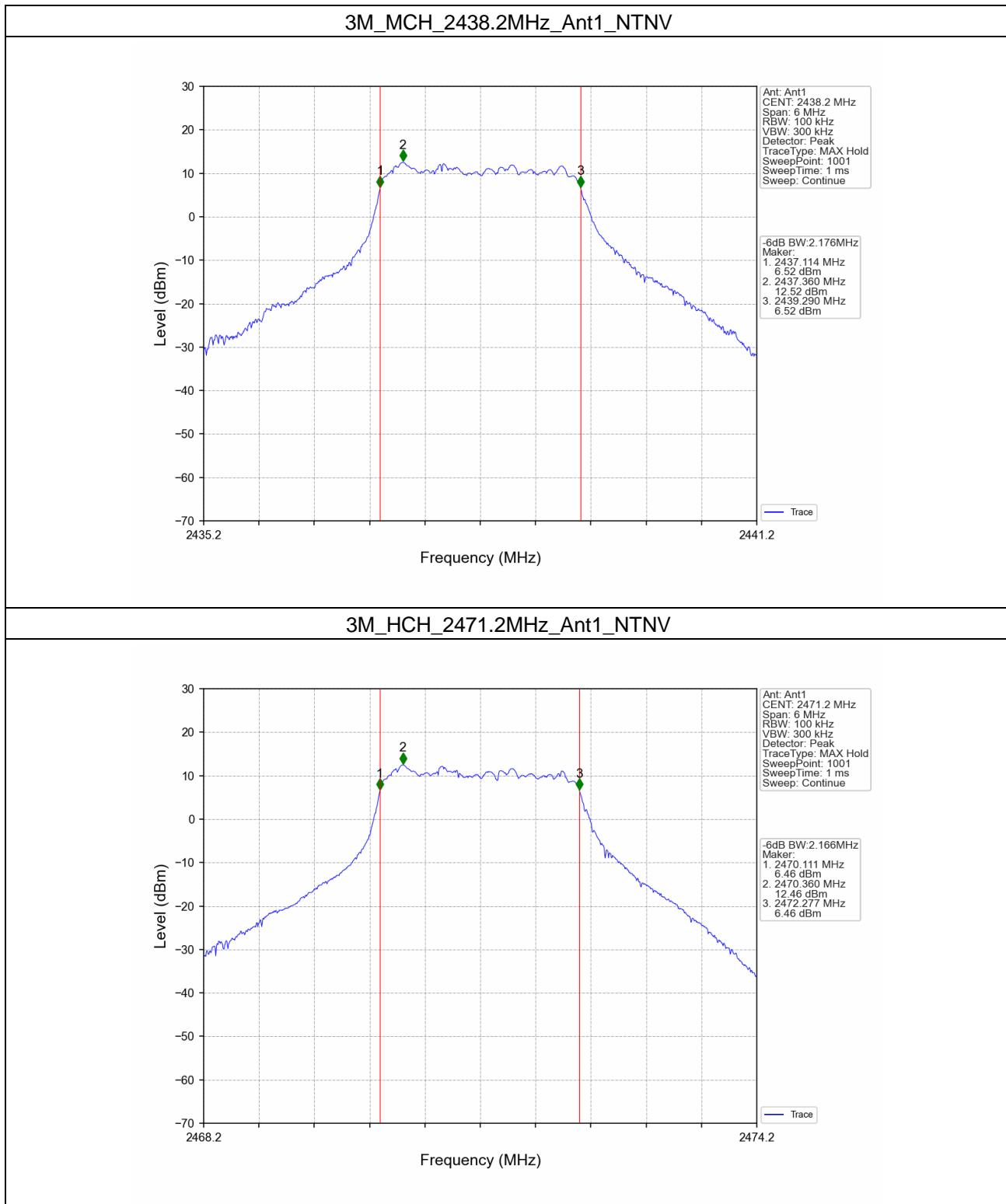
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**2.2.2 Test Graph**



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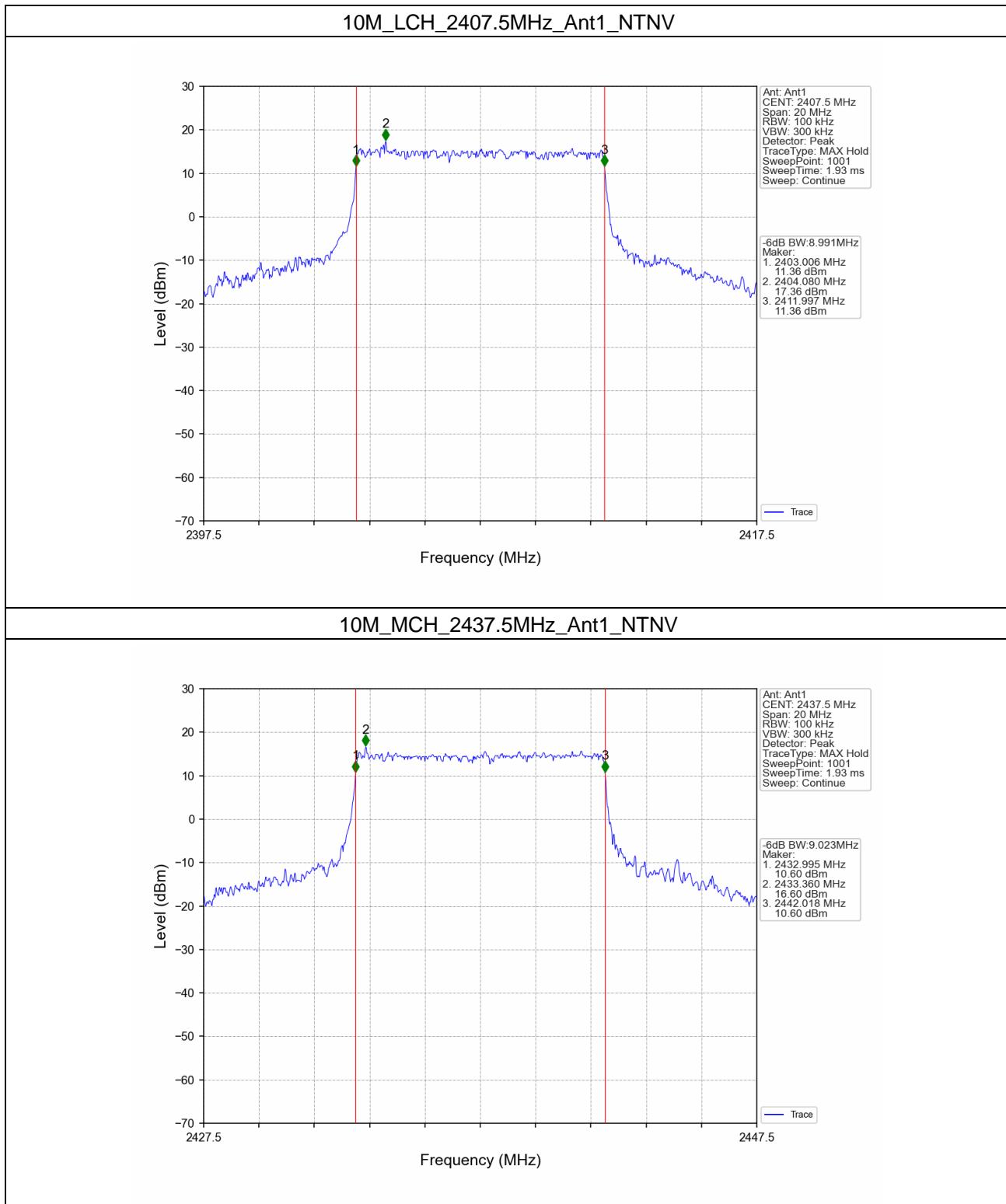
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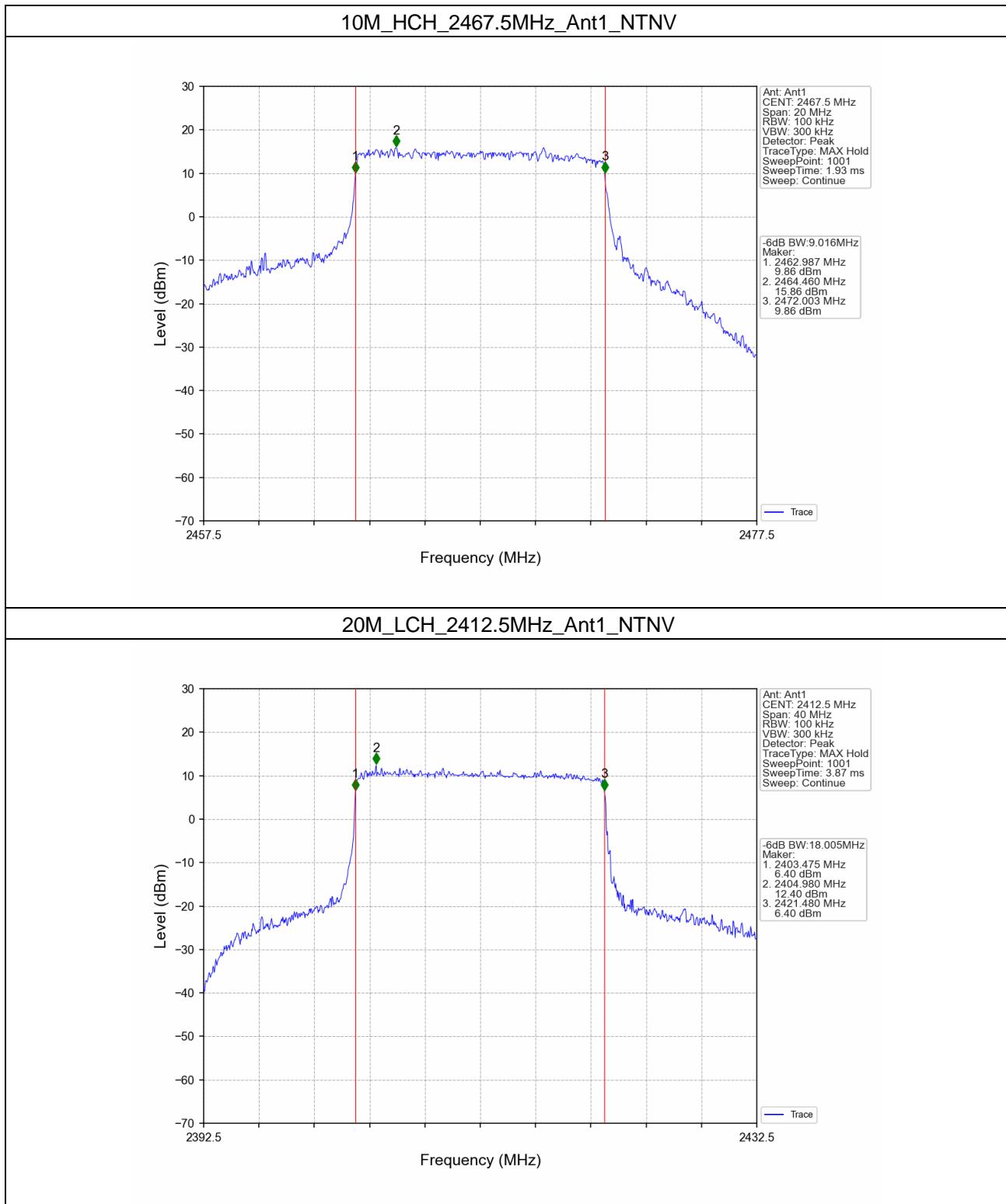
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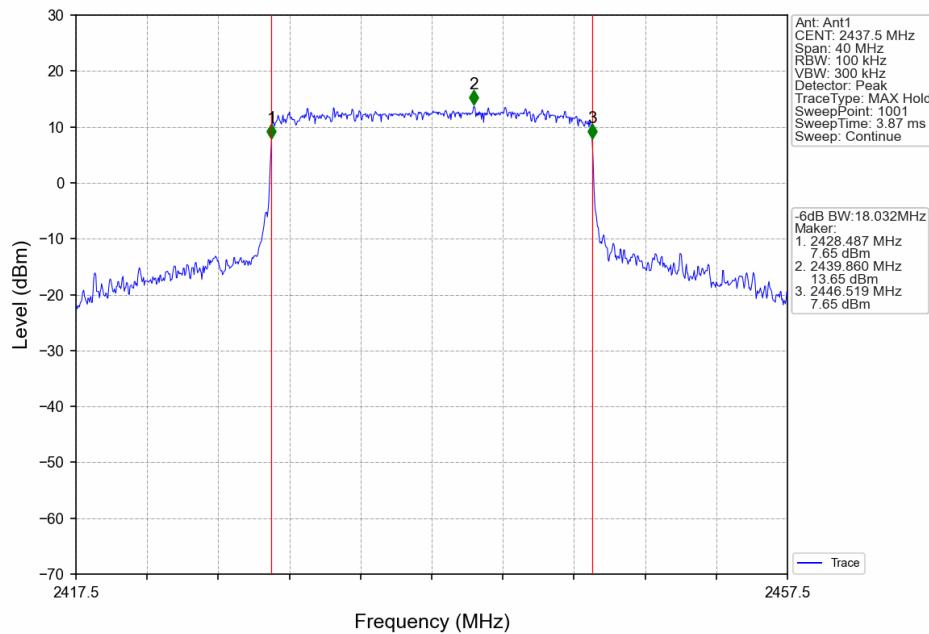
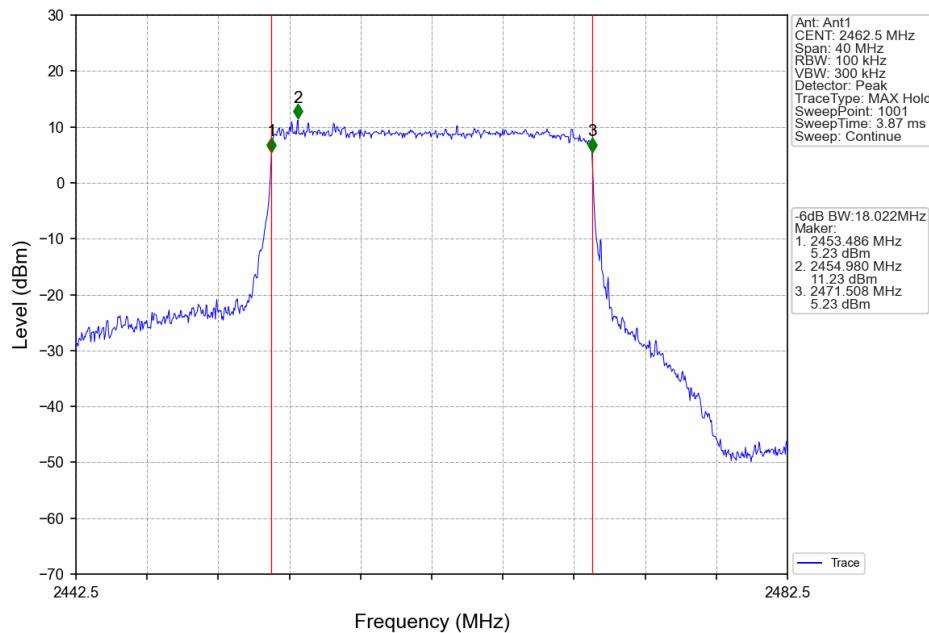
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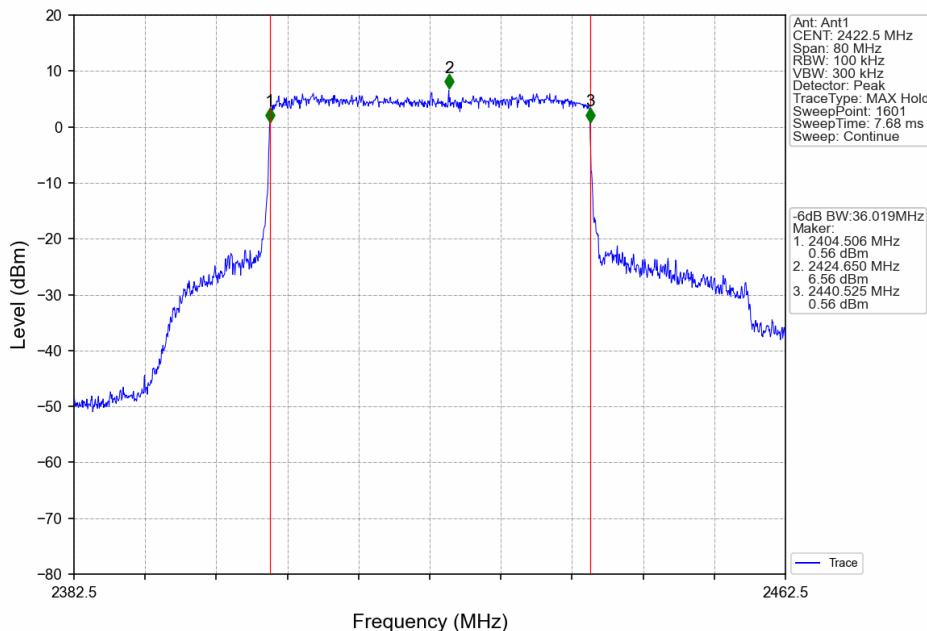
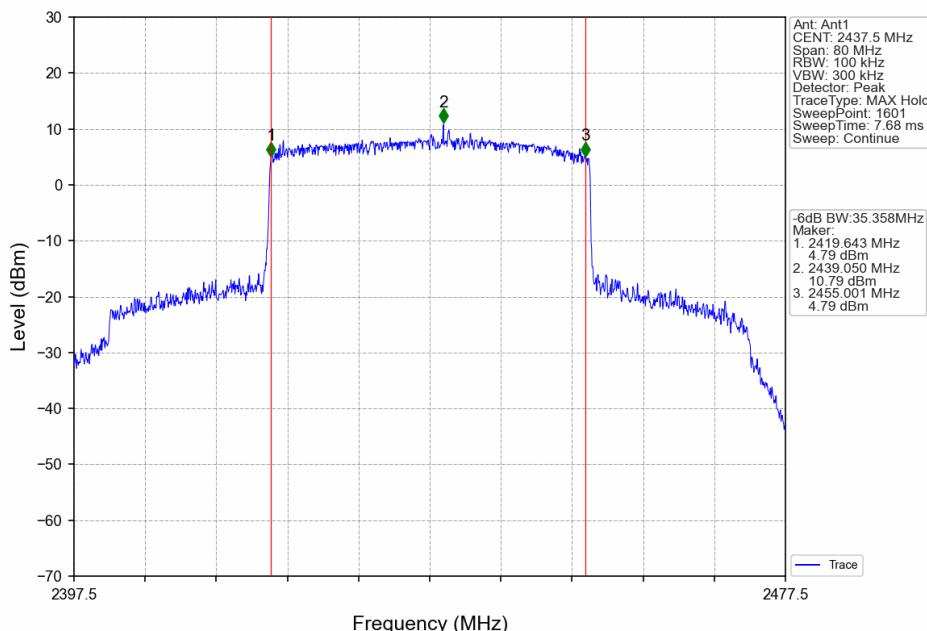
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**20M\_MCH\_2437.5MHz\_Ant1\_NTNV****20M\_HCH\_2462.5MHz\_Ant1\_NTNV**

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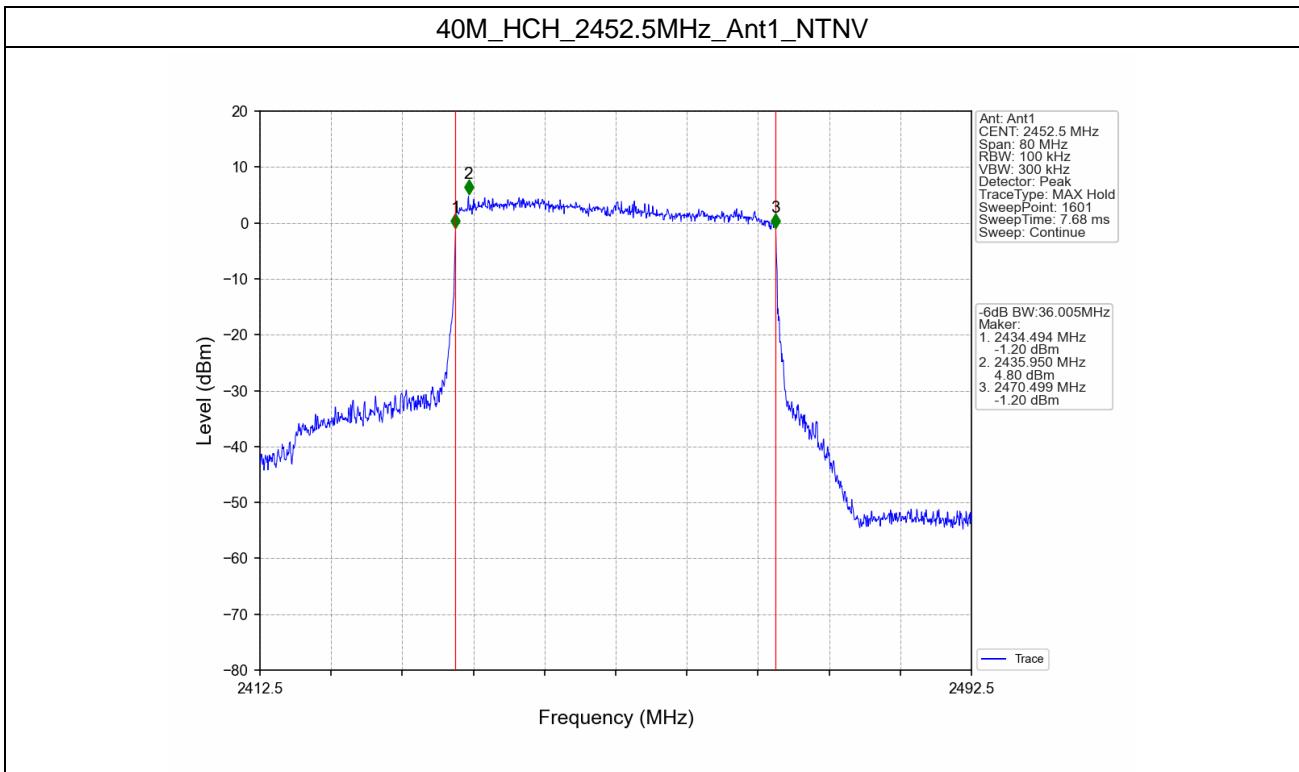
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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
1.4M	MIMO	2403.5	16.20	15.45	18.85	<=30	Pass
		2437.5	16.29	15.75	19.04	<=30	Pass
		2471.12	16.49	15.64	19.10	<=30	Pass
3M	MIMO	2405.5	15.74	14.99	18.39	<=30	Pass
		2438.2	16.41	15.66	19.06	<=30	Pass
		2471.2	16.11	15.46	18.81	<=30	Pass
10M	MIMO	2407.5	23.74	22.84	26.32	<=30	Pass
		2437.5	26.11	25.65	28.90	<=30	Pass
		2467.5	24.70	24.10	27.42	<=30	Pass
20M	MIMO	2412.5	23.38	22.58	26.01	<=30	Pass
		2437.5	25.47	24.96	28.23	<=30	Pass
		2462.5	22.29	21.14	24.76	<=30	Pass
40M	MIMO	2422.5	21.18	20.30	23.77	<=30	Pass
		2437.5	25.04	24.59	27.83	<=30	Pass
		2452.5	21.59	21.01	24.32	<=30	Pass

Note1: Antenna Gain: Ant1: 2.00dBi; Ant2: 2.00dBi;  
 Note2: Directional Gain=gain of individual transmit antennas (dBi) + array gain (dB)=2dBi  
 Array Gain = 0 dB for  $N_{ANT} \leq 4$

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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
1.4M	MIMO	2403.5	1.58	1.02	2.89	<=8	Pass
		2437.5	1.74	1.24	3.19	<=8	Pass
		2471.12	1.82	1.35	3.09	<=8	Pass
3M	MIMO	2405.5	-1.31	-1.69	-0.52	<=8	Pass
		2438.2	-0.62	-1.03	-0.15	<=8	Pass
		2471.2	-0.86	-1.08	0.02	<=8	Pass
10M	MIMO	2407.5	-1.49	-2.76	-0.11	<=8	Pass
		2437.5	1.22	0.06	2.62	<=8	Pass
		2467.5	-0.56	-1.46	1.11	<=8	Pass
20M	MIMO	2412.5	-4.88	-5.94	-2.75	<=8	Pass
		2437.5	-2.63	-3.49	-0.45	<=8	Pass
		2462.5	-5.93	-7.28	-4.05	<=8	Pass
40M	MIMO	2422.5	-9.59	-10.25	-8.03	<=8	Pass
		2437.5	-6.09	-5.92	-3.60	<=8	Pass
		2452.5	-8.85	-9.28	-6.31	<=8	Pass



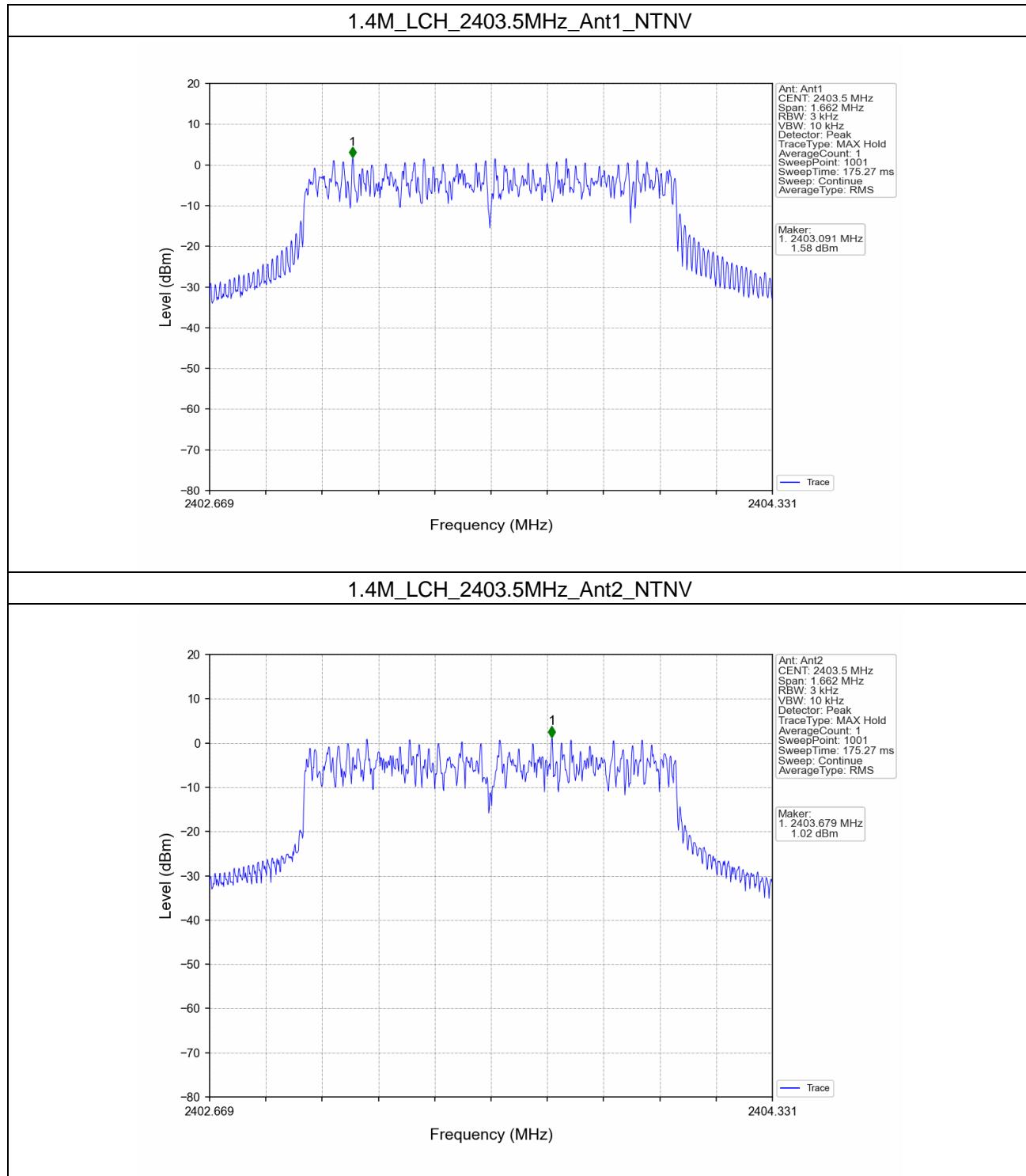
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**4.1.2 Test Graph**

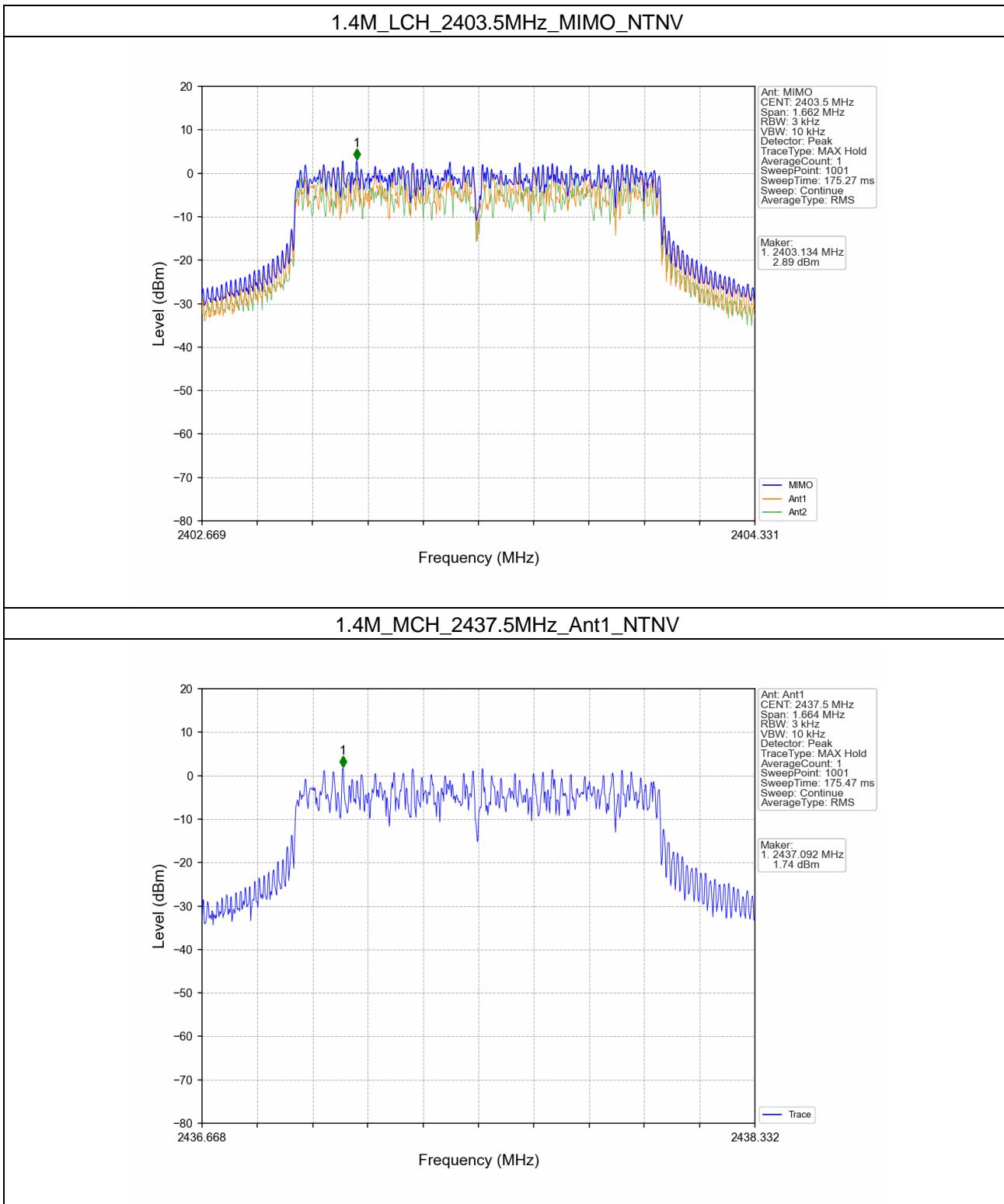
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch (SGS-CSTC) Laboratory

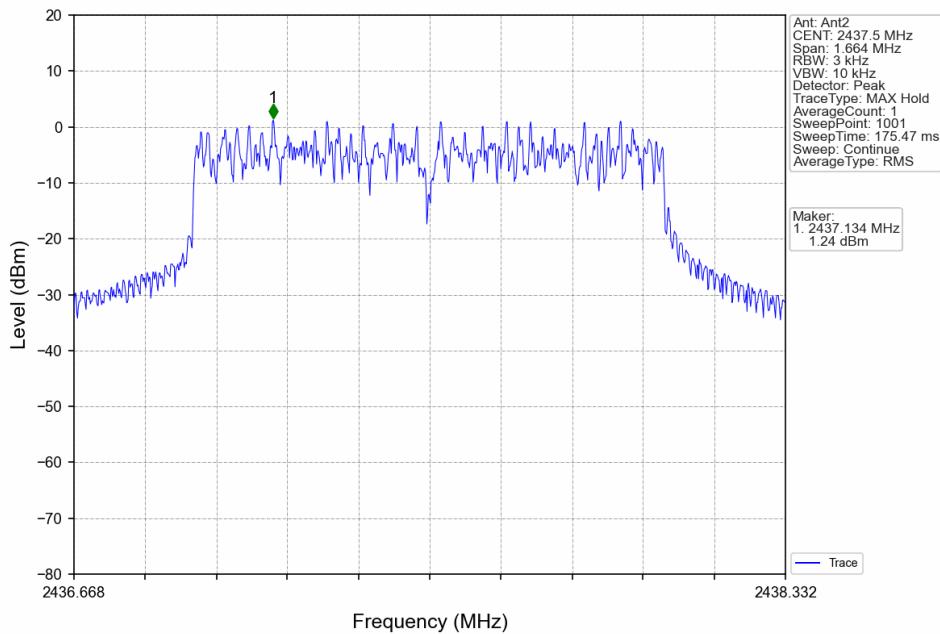
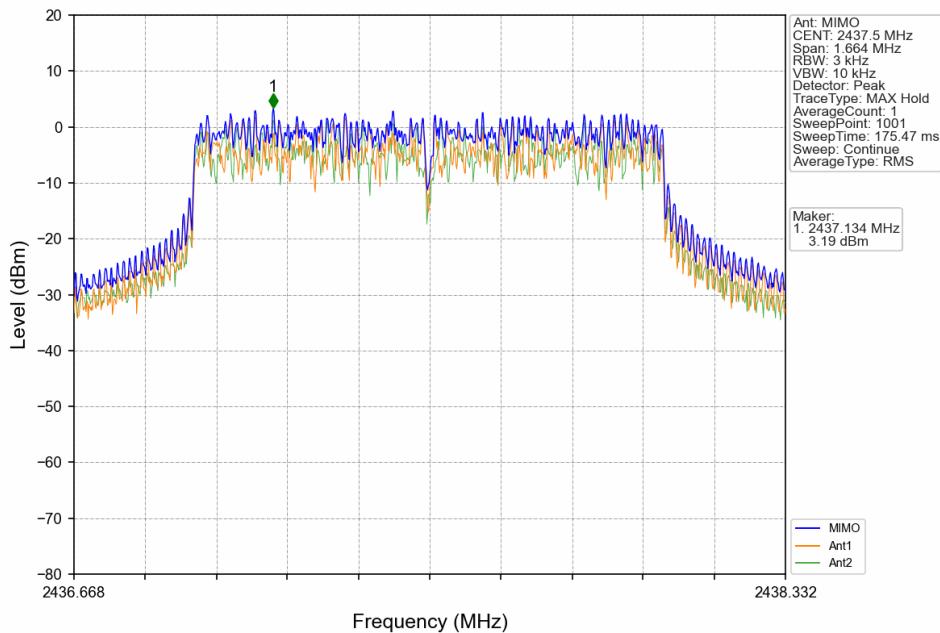
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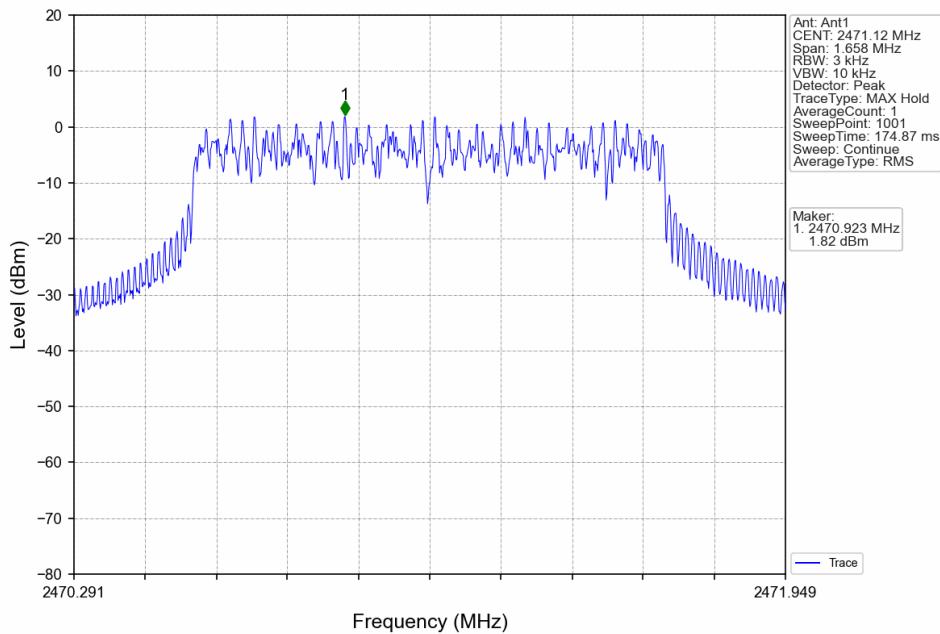
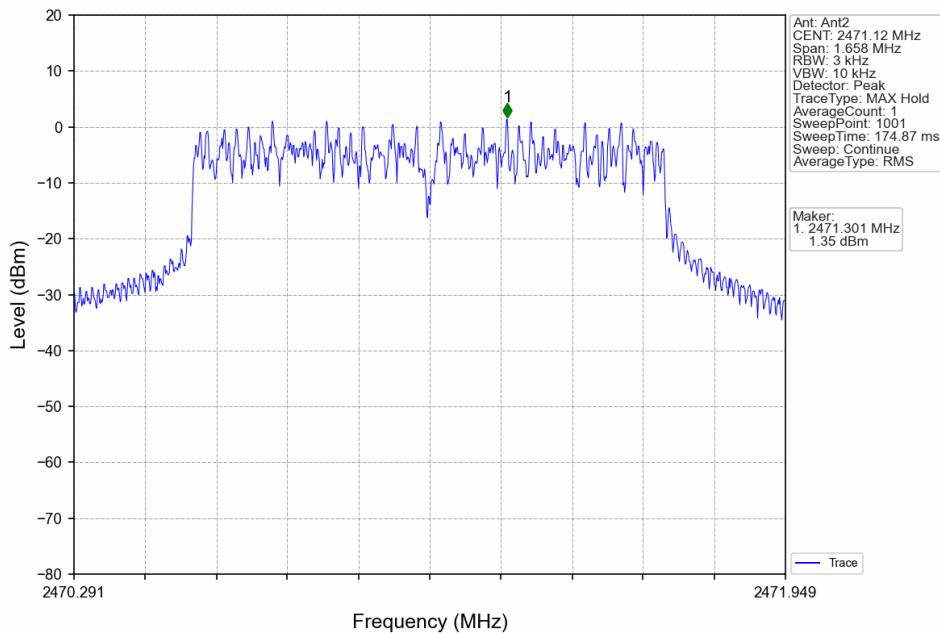
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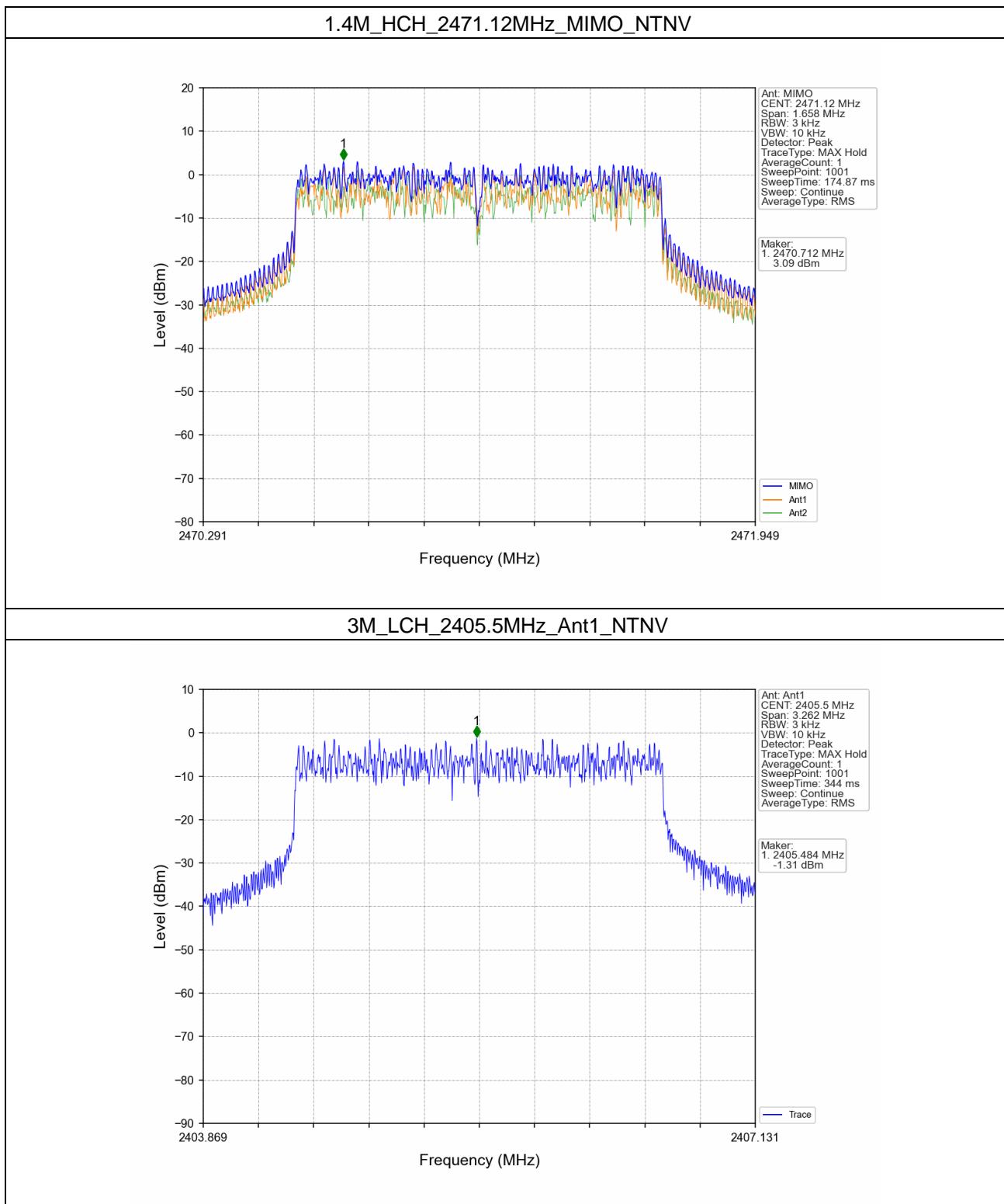


**1.4M\_MCH\_2437.5MHz\_Ant2\_NTNV****1.4M\_MCH\_2437.5MHz\_MIMO\_NTNV**

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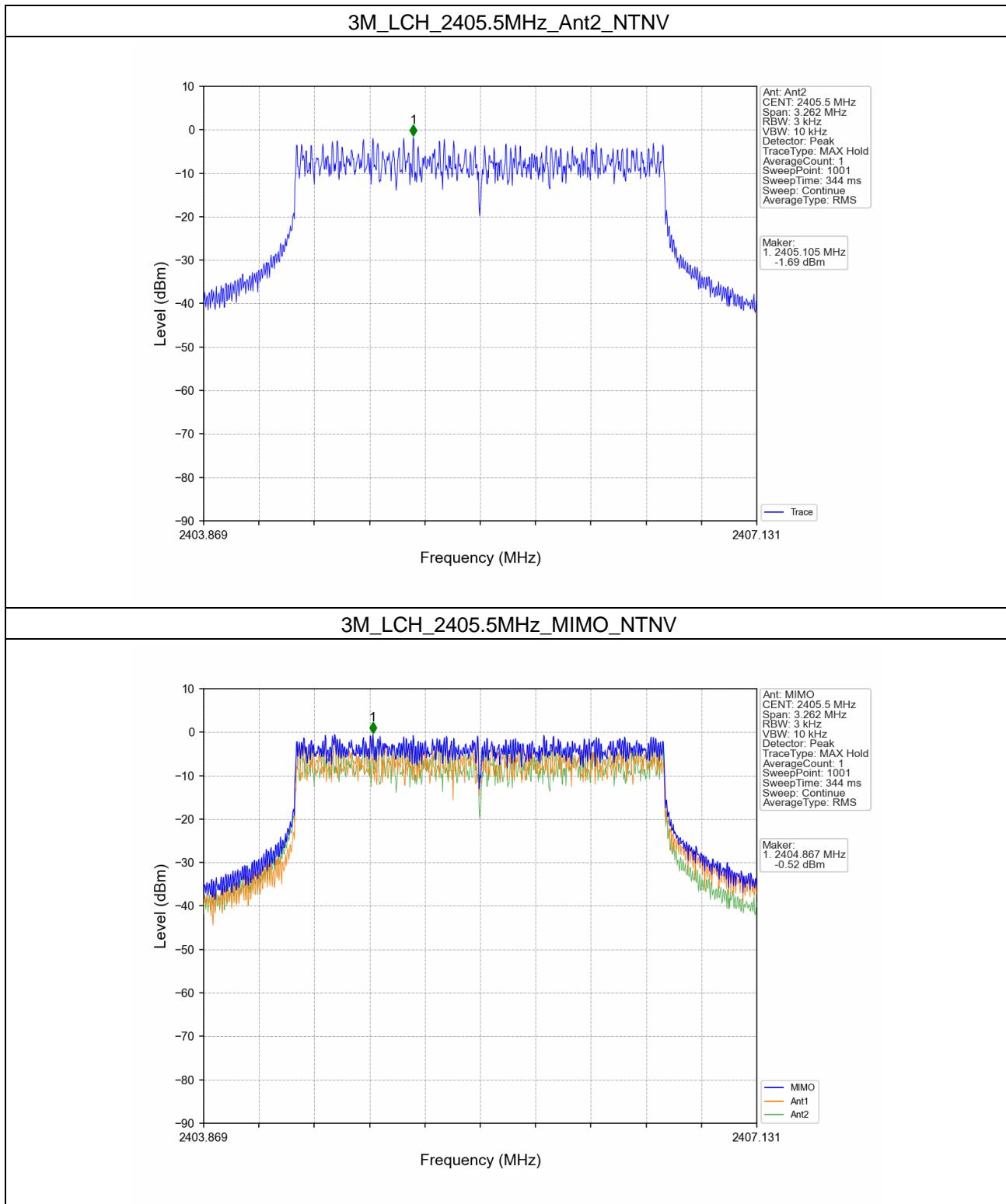
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**1.4M\_HCH\_2471.12MHz\_Ant1\_NTNV****1.4M\_HCH\_2471.12MHz\_Ant2\_NTNV**



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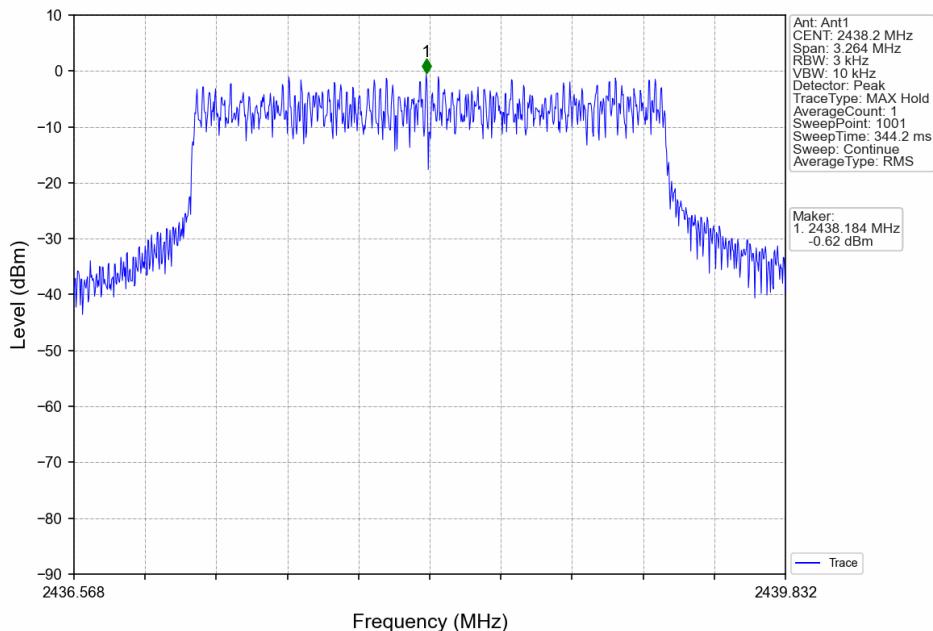
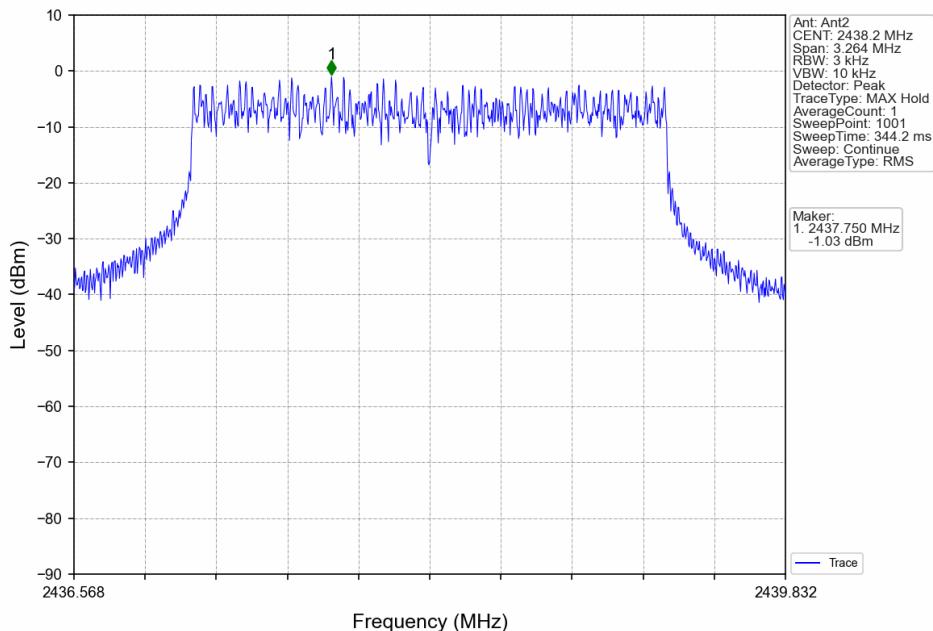


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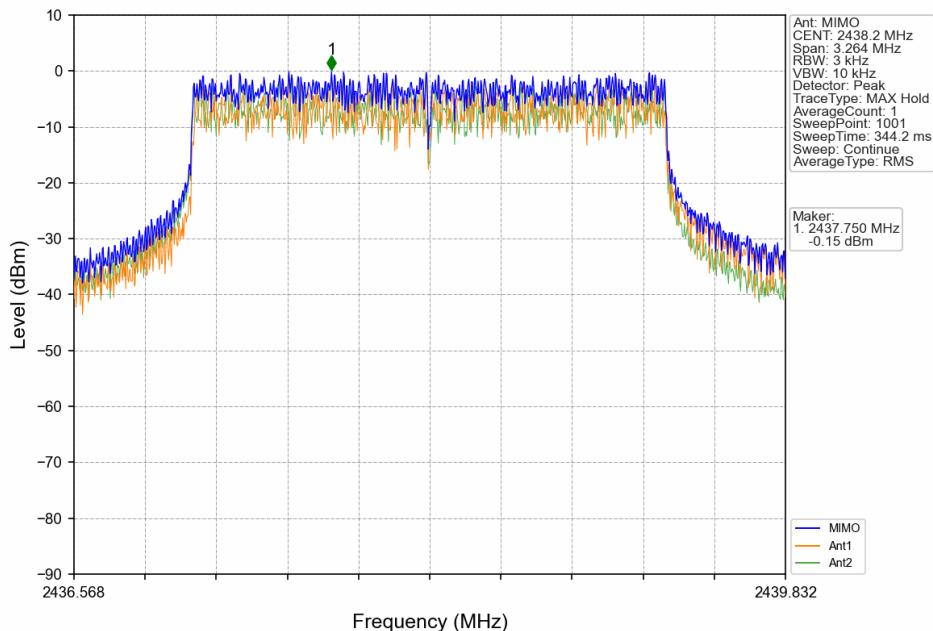
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**3M\_MCH\_2438.2MHz\_Ant1\_NTNV****3M\_MCH\_2438.2MHz\_Ant2\_NTNV**

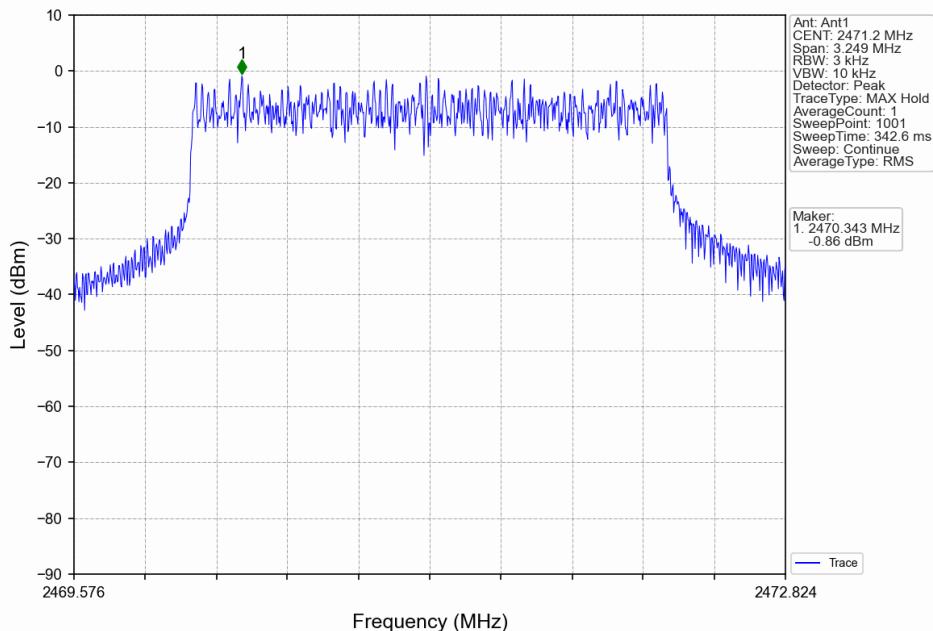
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### 3M\_MCH\_2438.2MHz\_MIMO\_NTNV



### 3M\_HCH\_2471.2MHz\_Ant1\_NTNV



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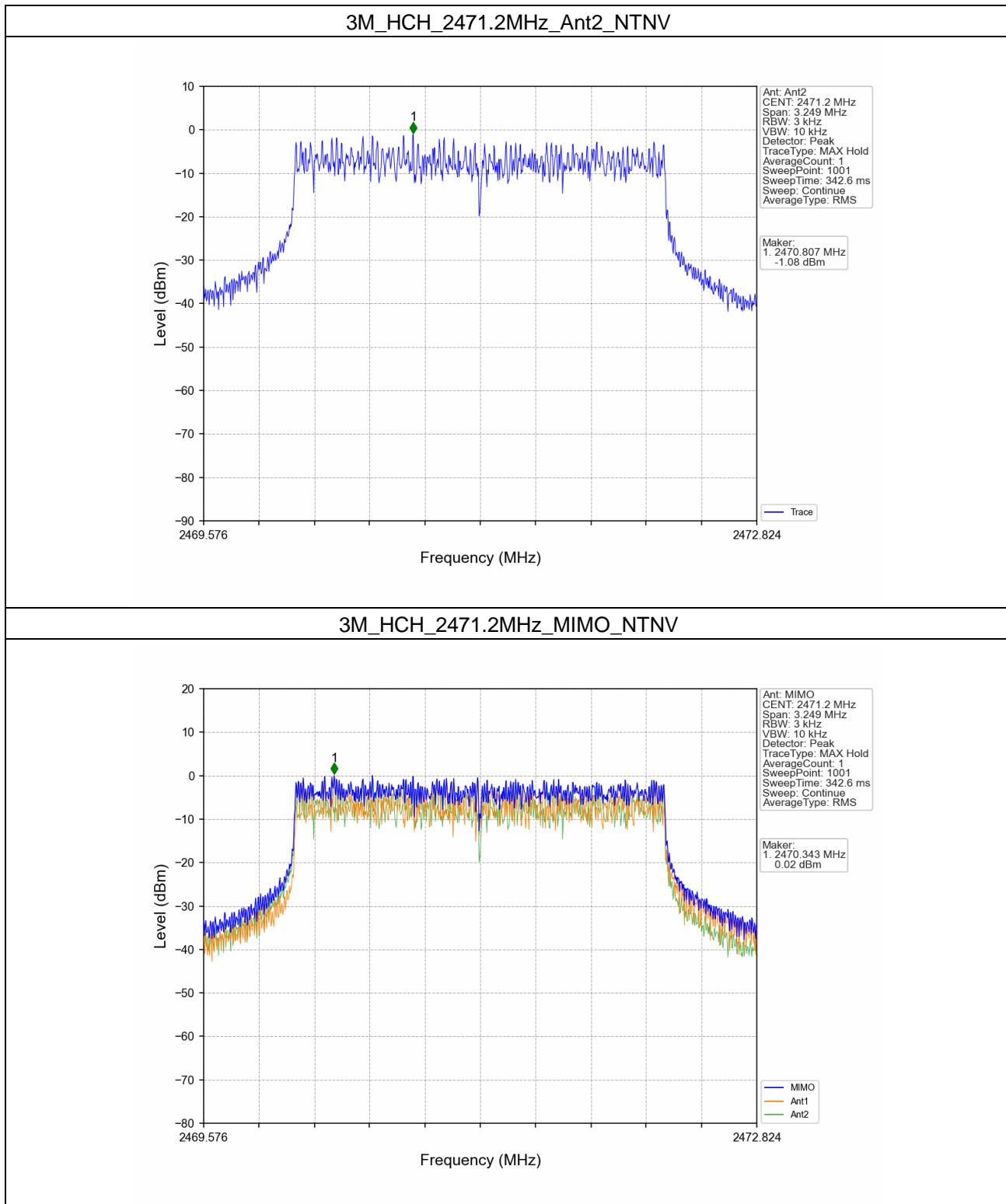
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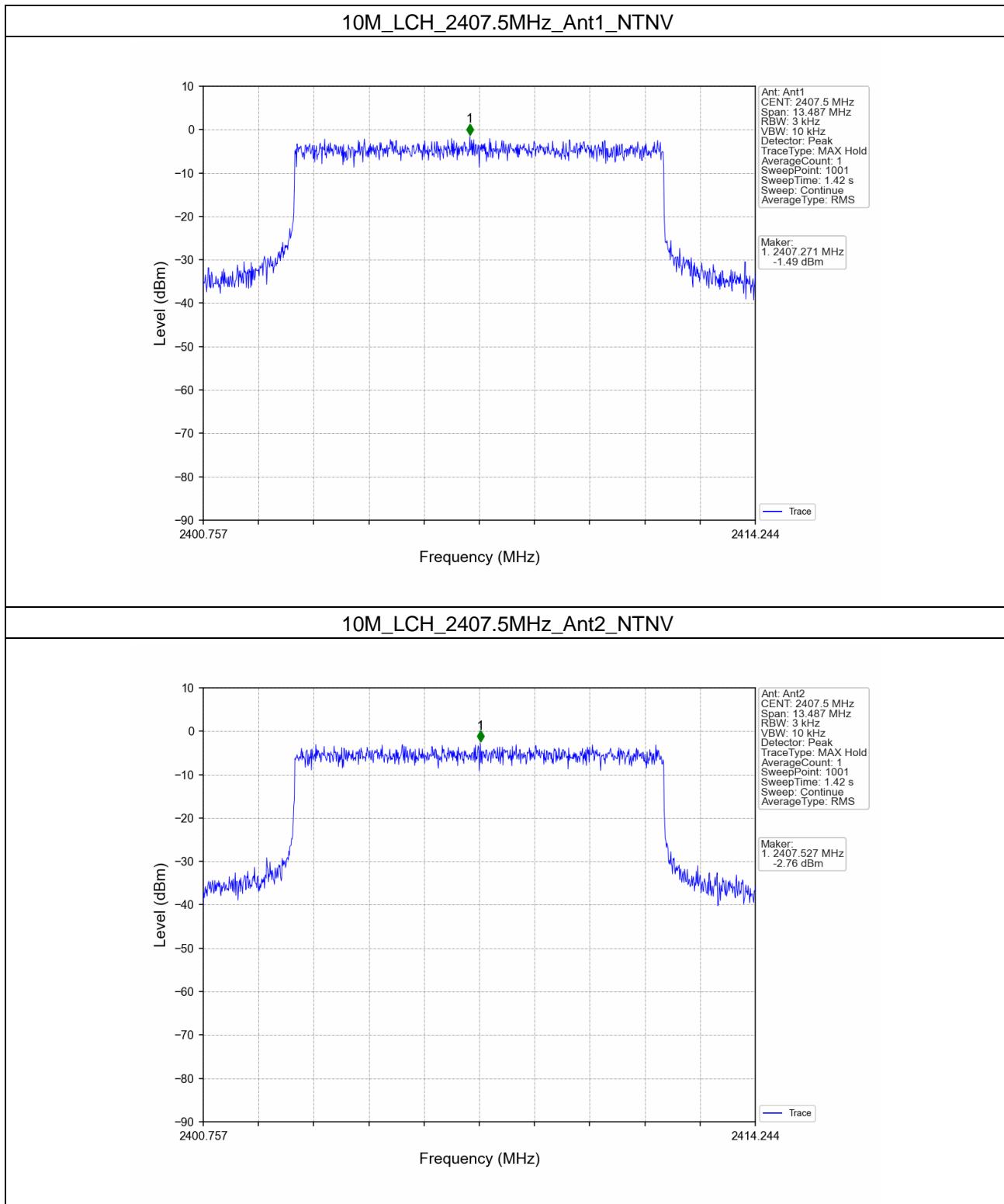
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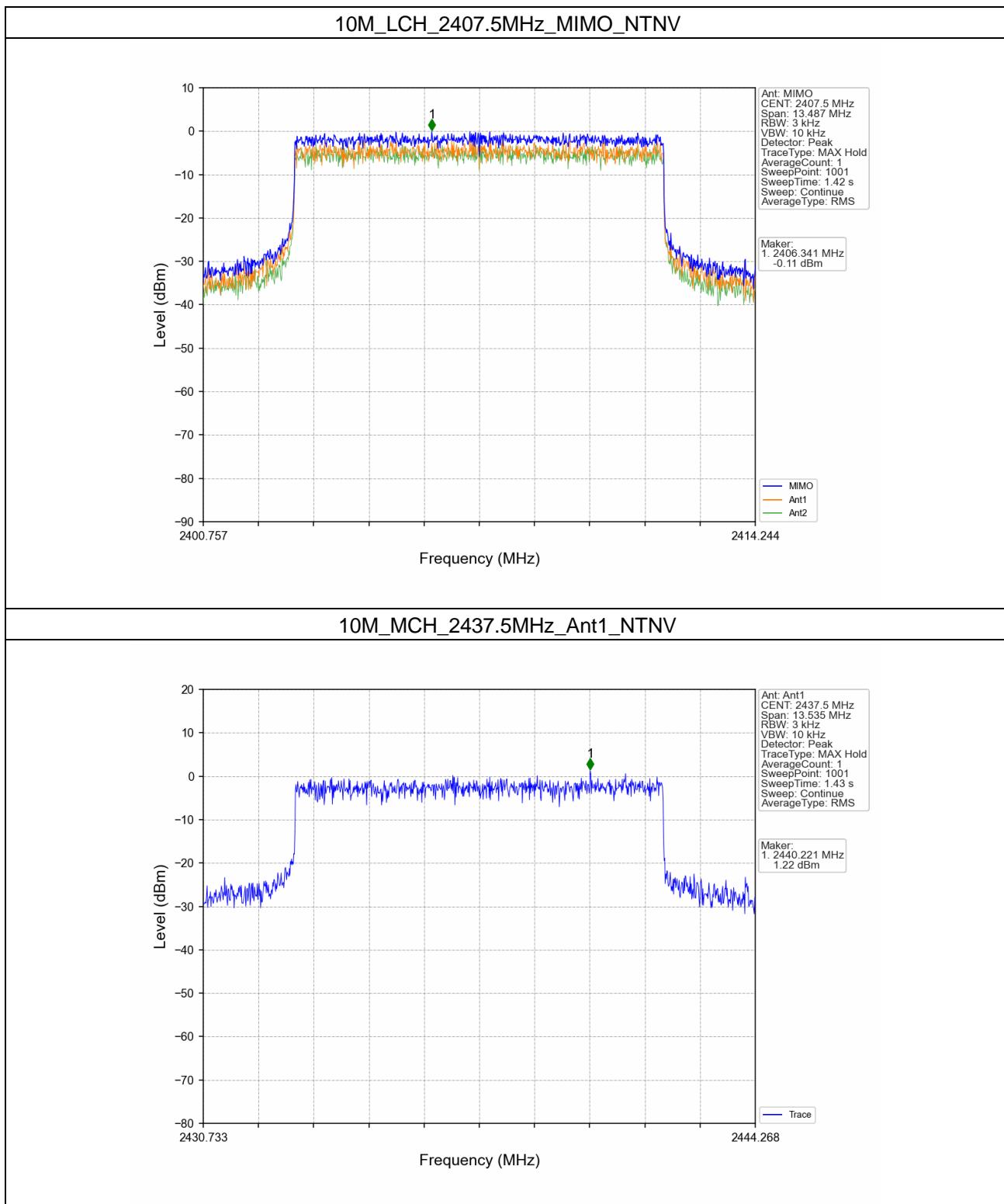
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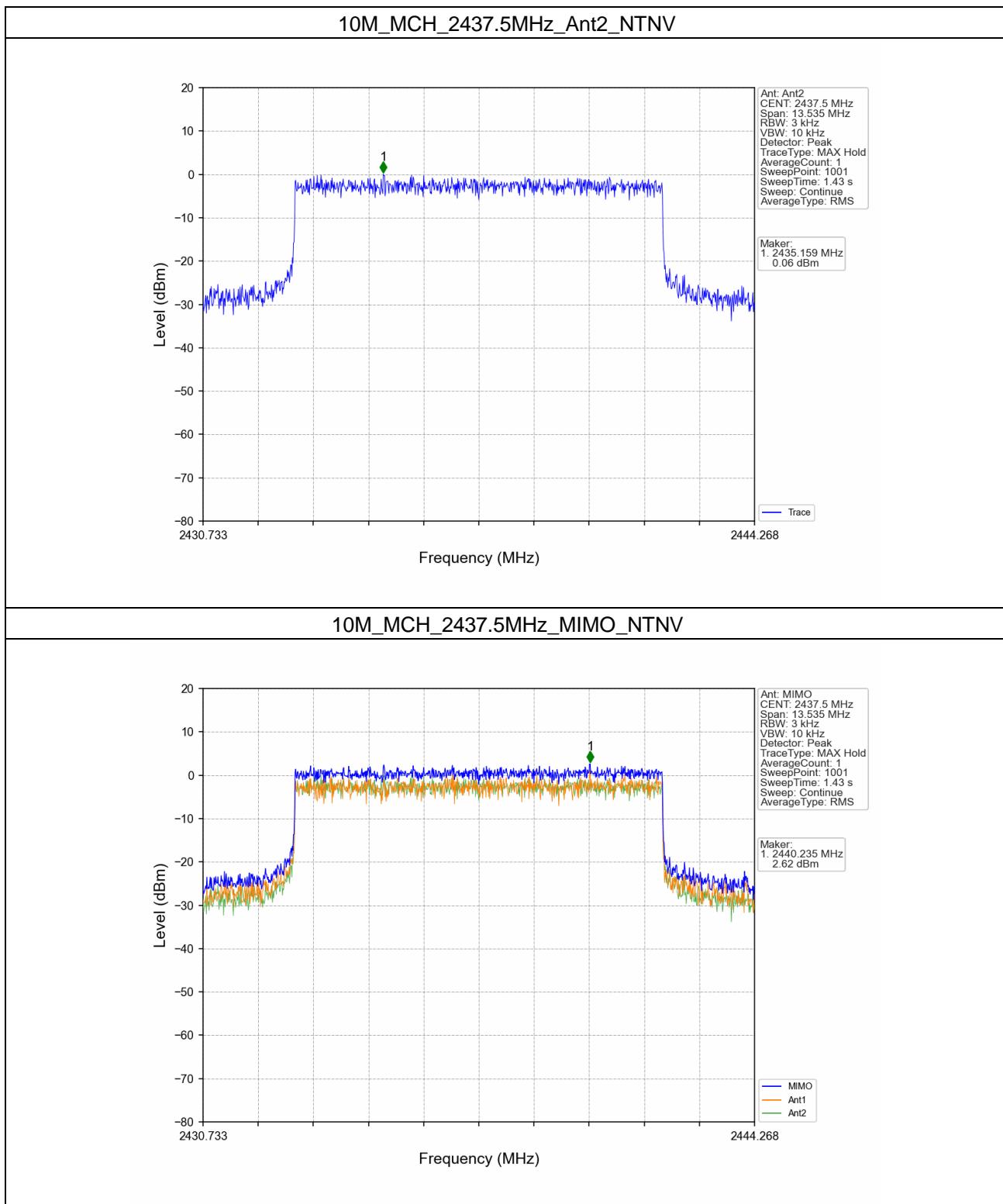
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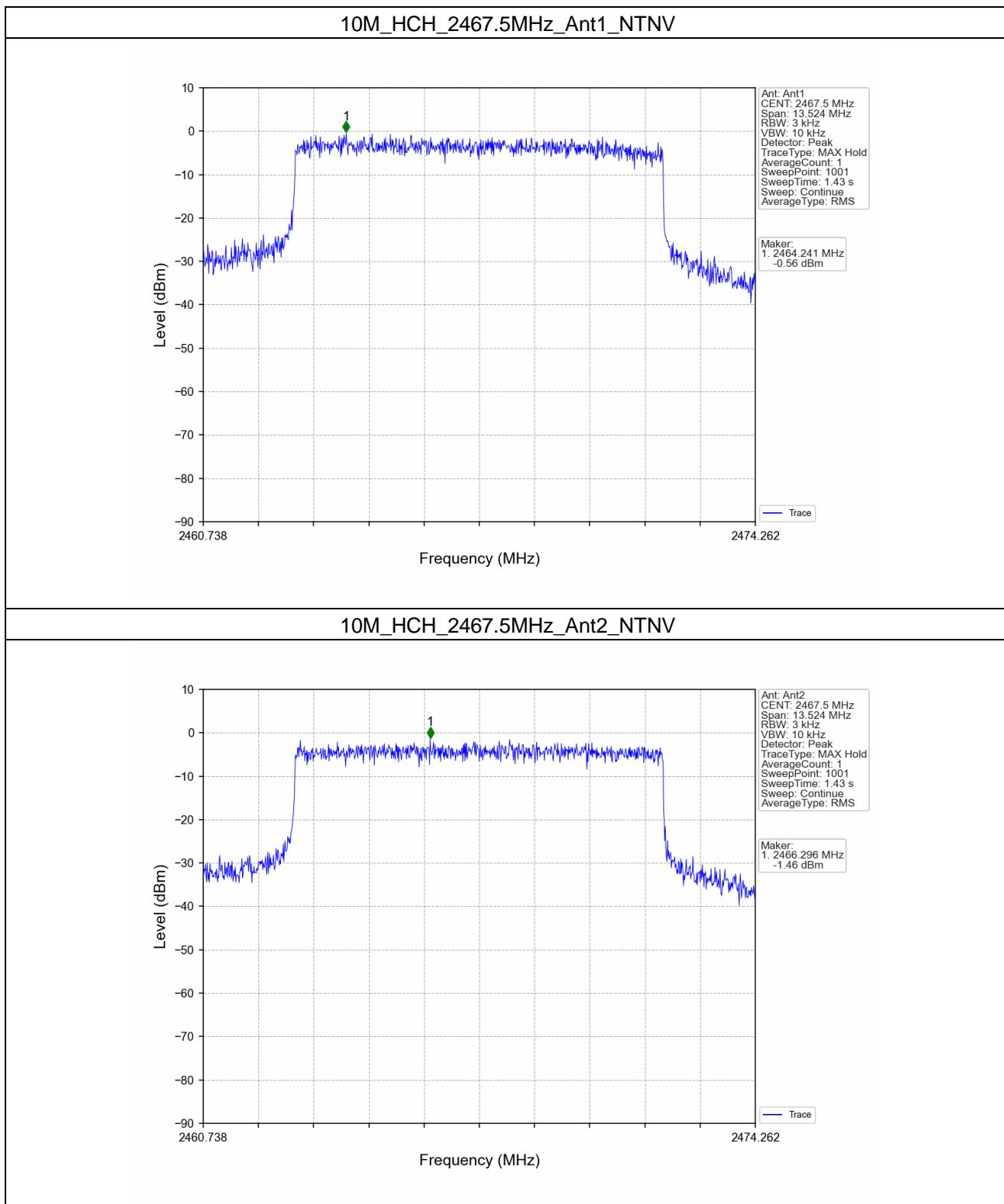
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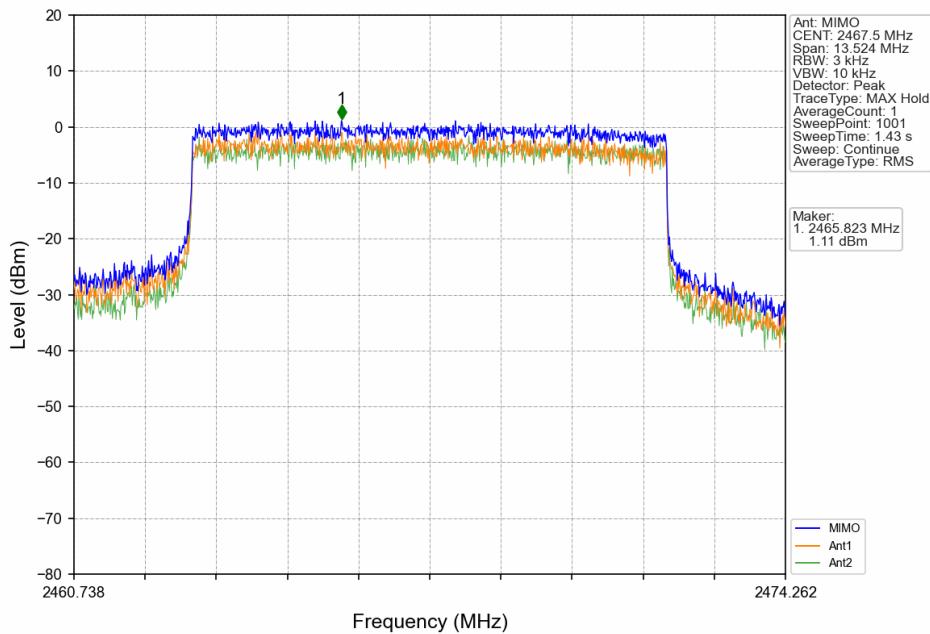
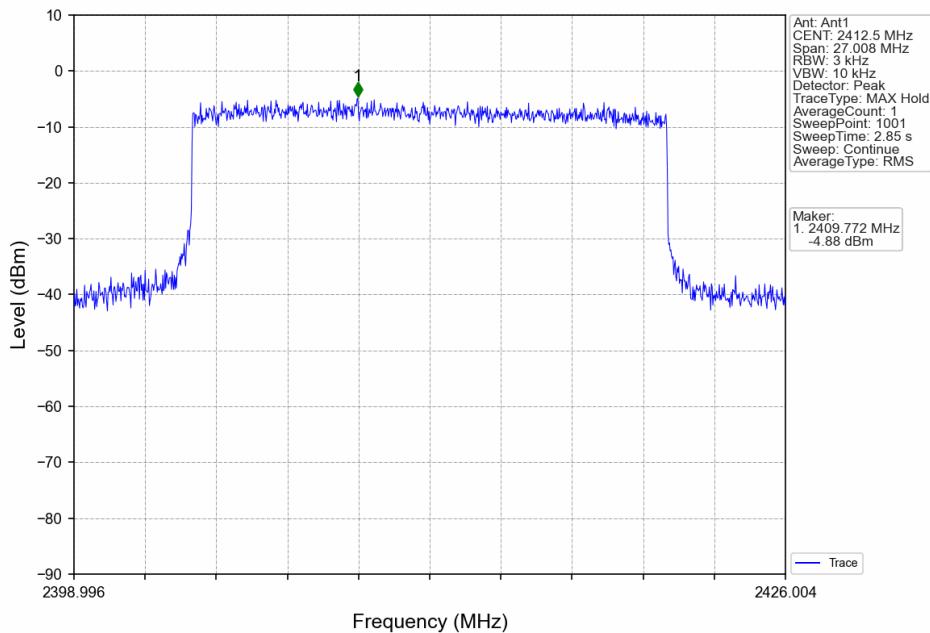


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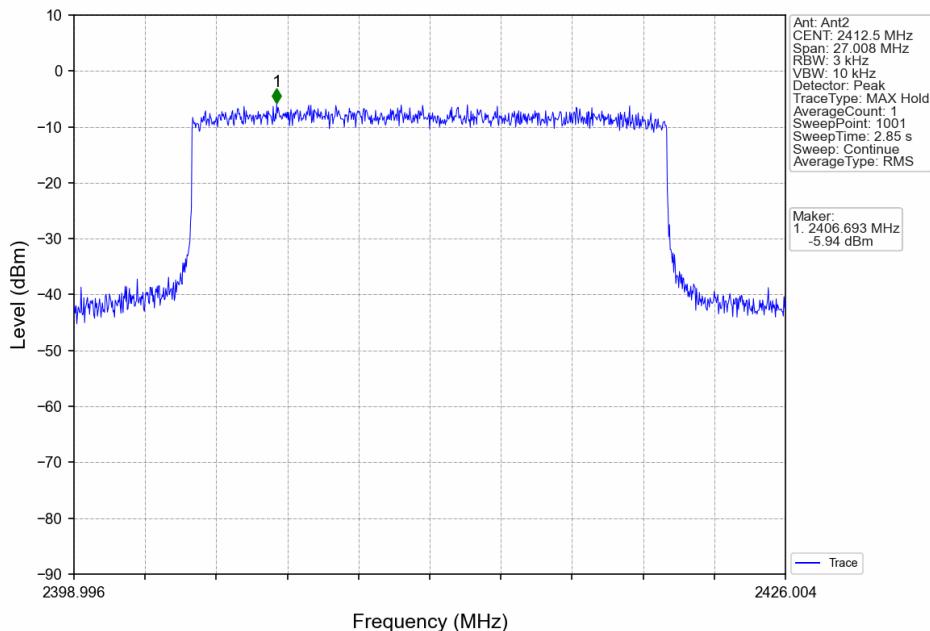
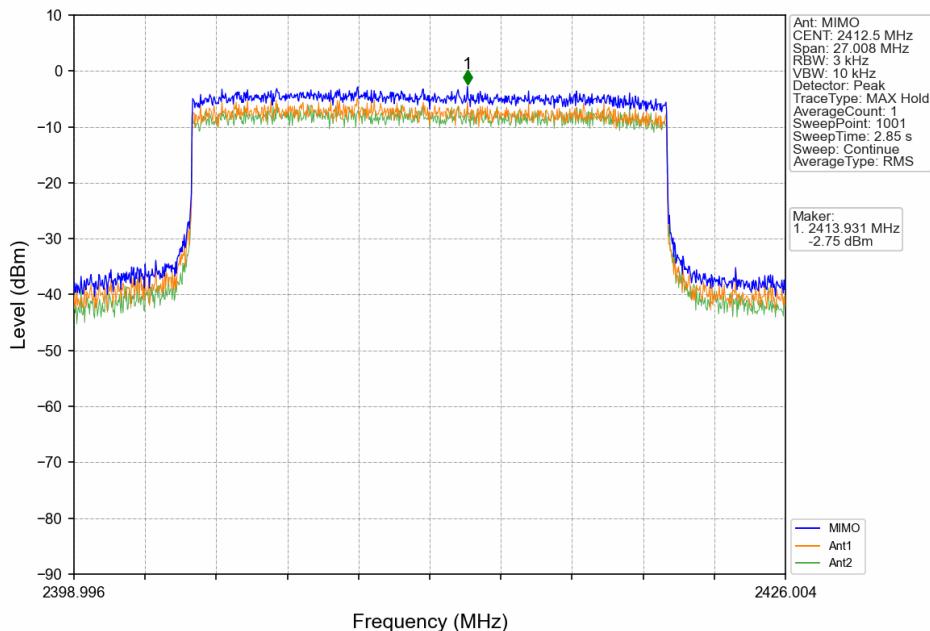


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**10M\_HCH\_2467.5MHz\_MIMO\_ntnv****20M\_LCH\_2412.5MHz\_Ant1\_ntnv**

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