

## Appendix A for SHCR21100046501

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T <sub>on</sub> (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00
2M	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00



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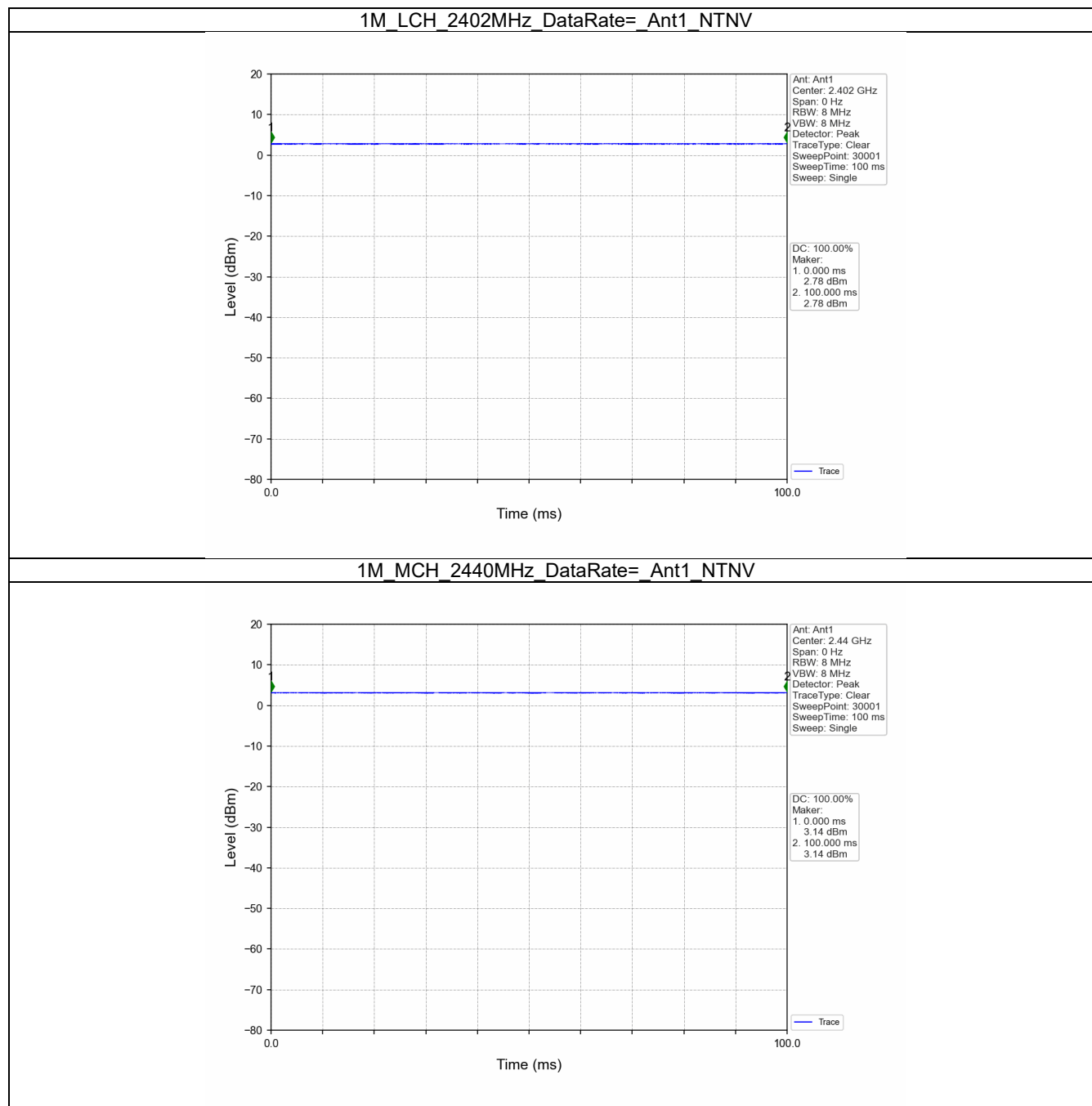
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## 1.1.2 Test Graph



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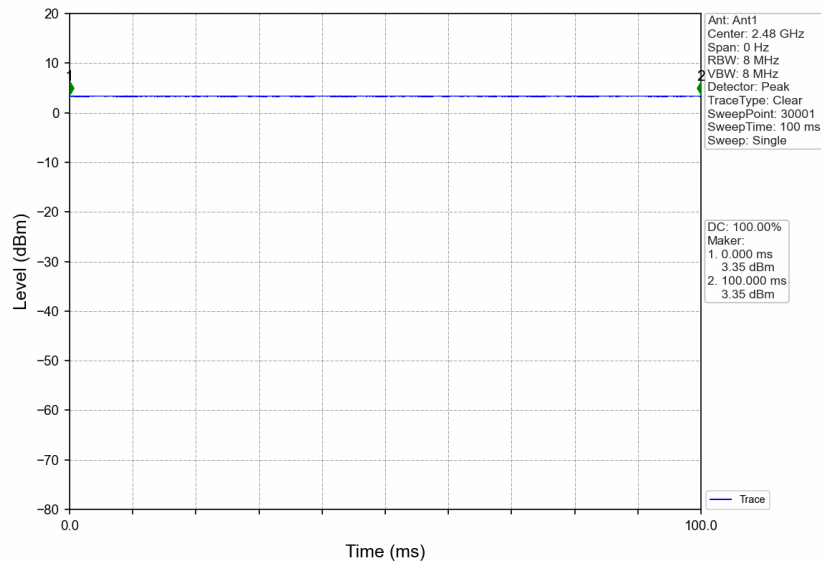
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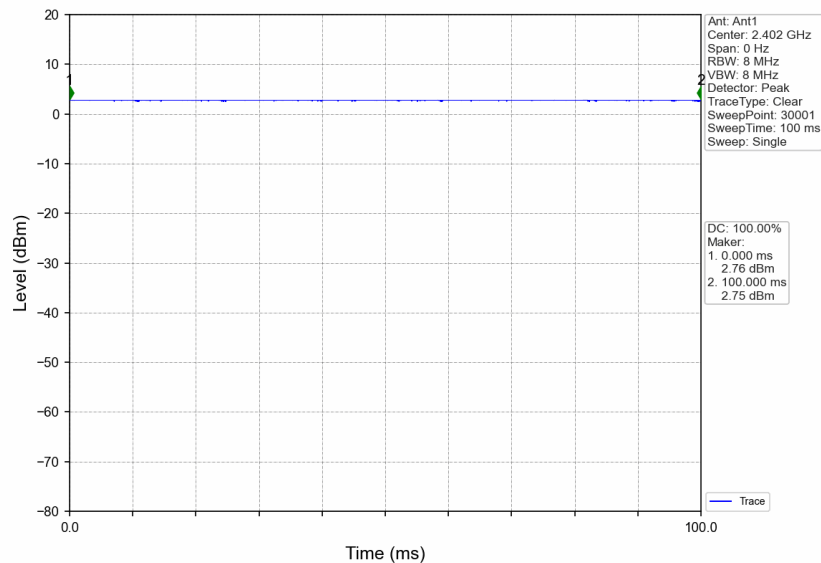
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1M\_HCH\_2480MHz\_DataRate= Ant1\_NTNV



2M\_LCH\_2402MHz\_DataRate= Ant1\_NTNV



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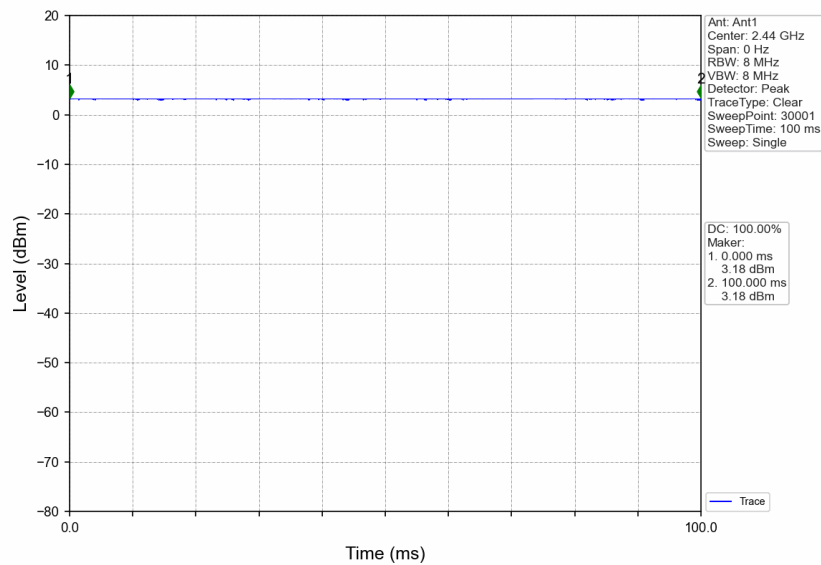
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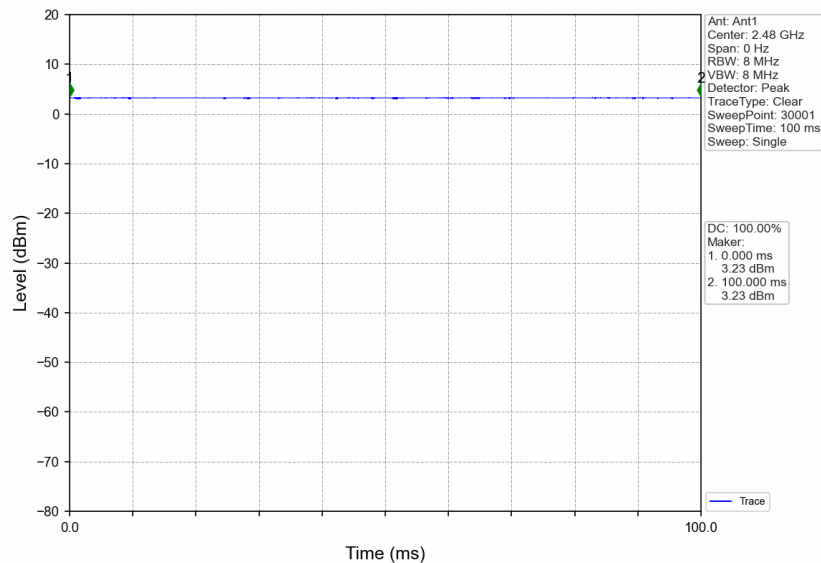
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2M\_MCH\_2440MHz\_DataRate=\_Ant1\_NTNV



2M\_HCH\_2480MHz\_DataRate=\_Ant1\_NTNV



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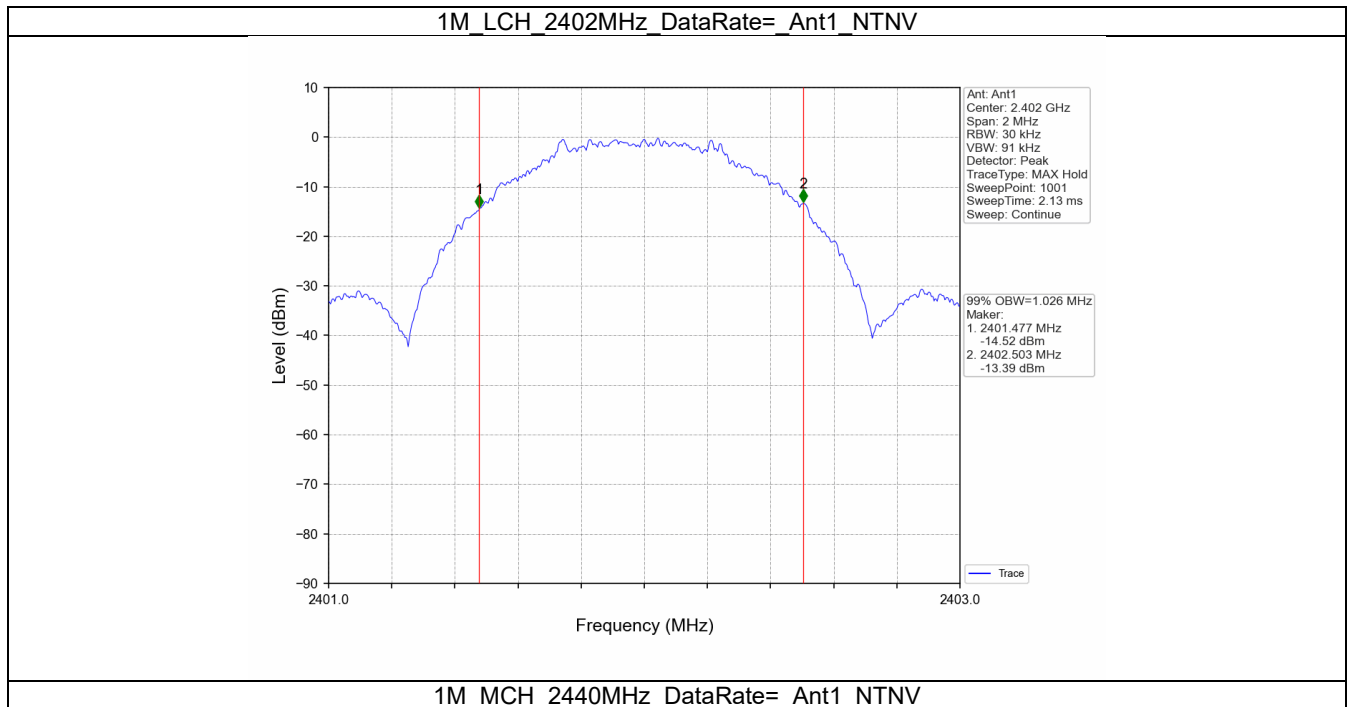
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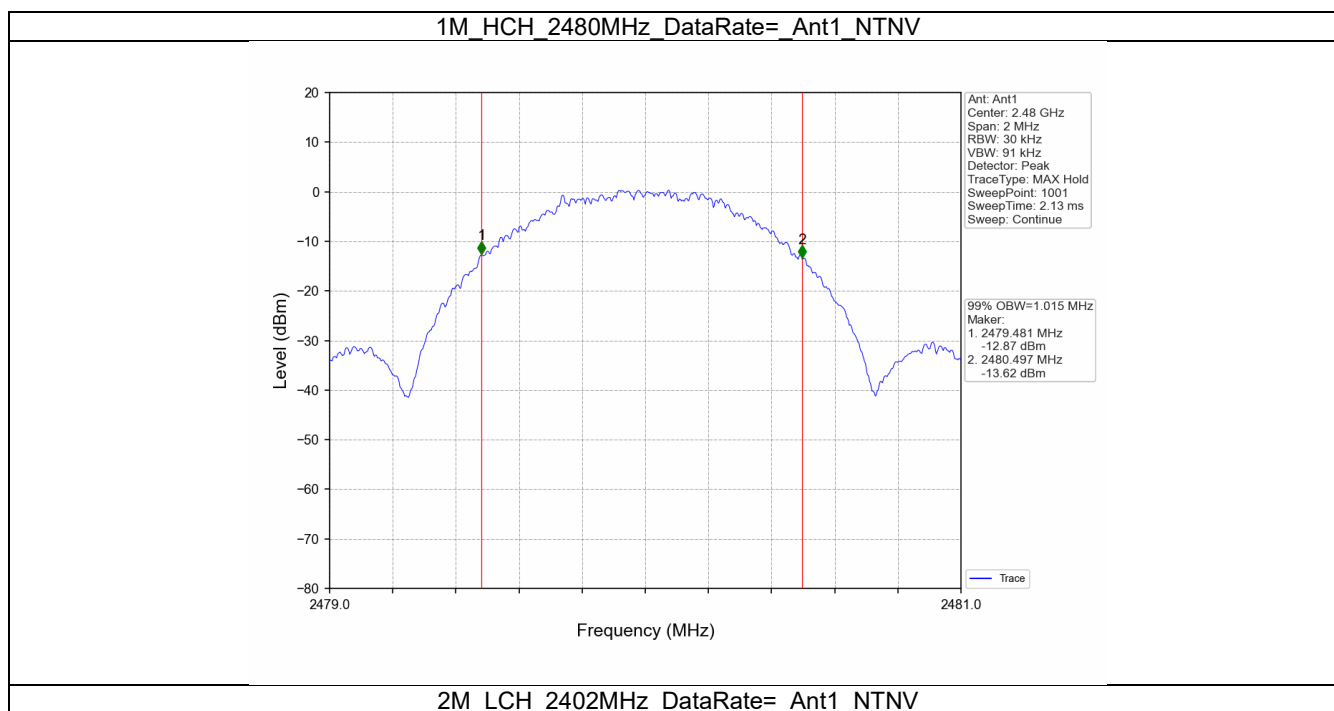
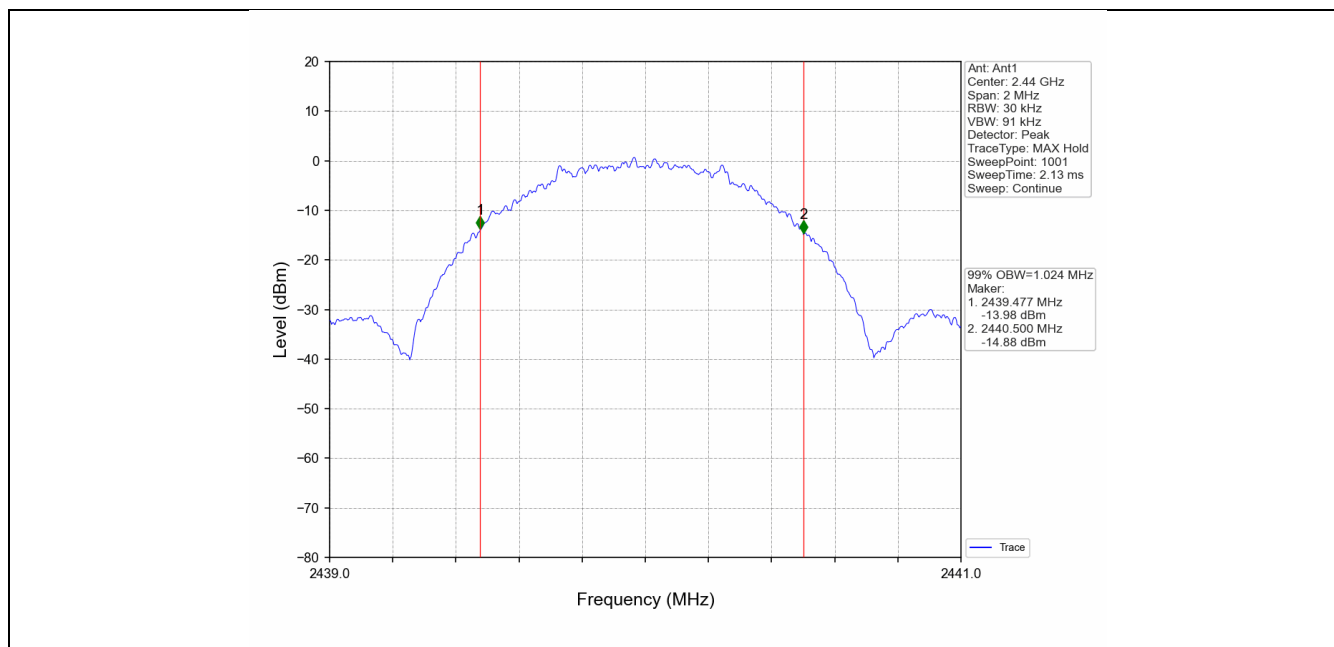
### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.026	Pass
		2440	1	1.024	Pass
		2480	1	1.015	Pass
2M	SISO	2402	1	2.037	Pass
		2440	1	2.051	Pass
		2480	1	2.029	Pass

#### 2.1.2 Test Graph





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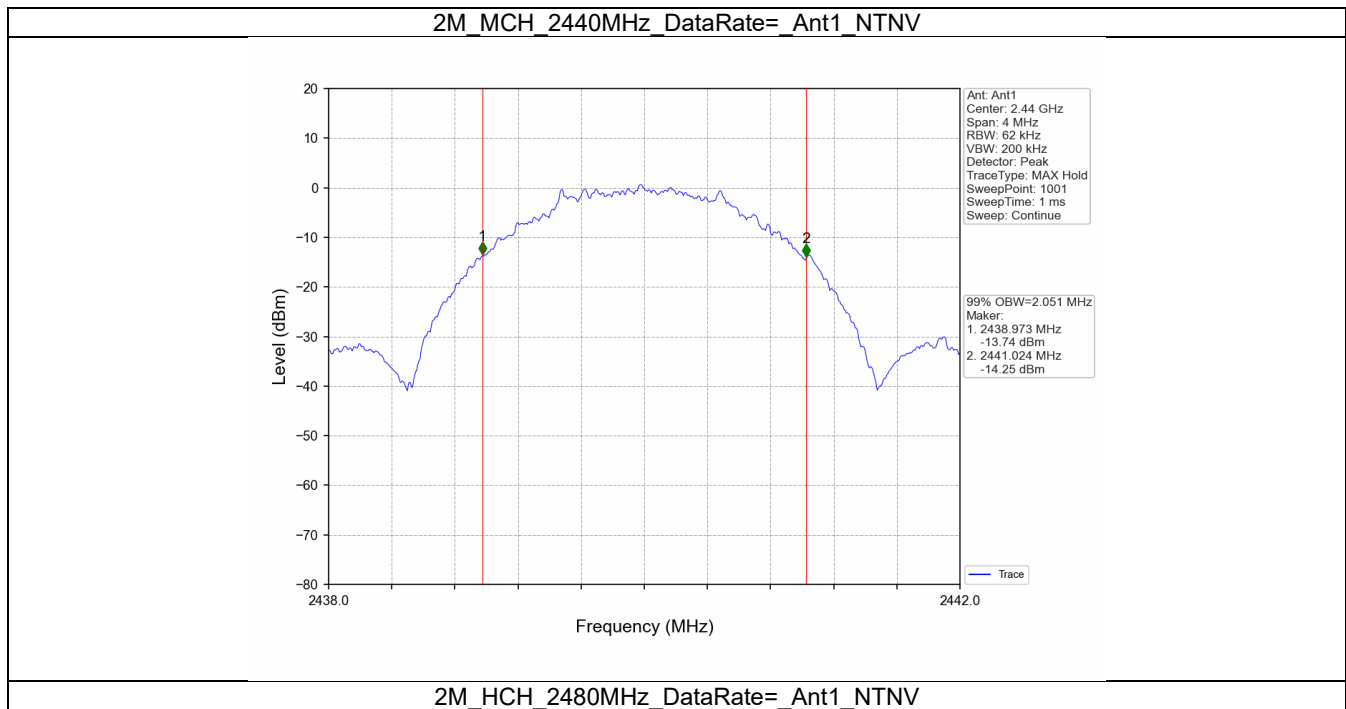
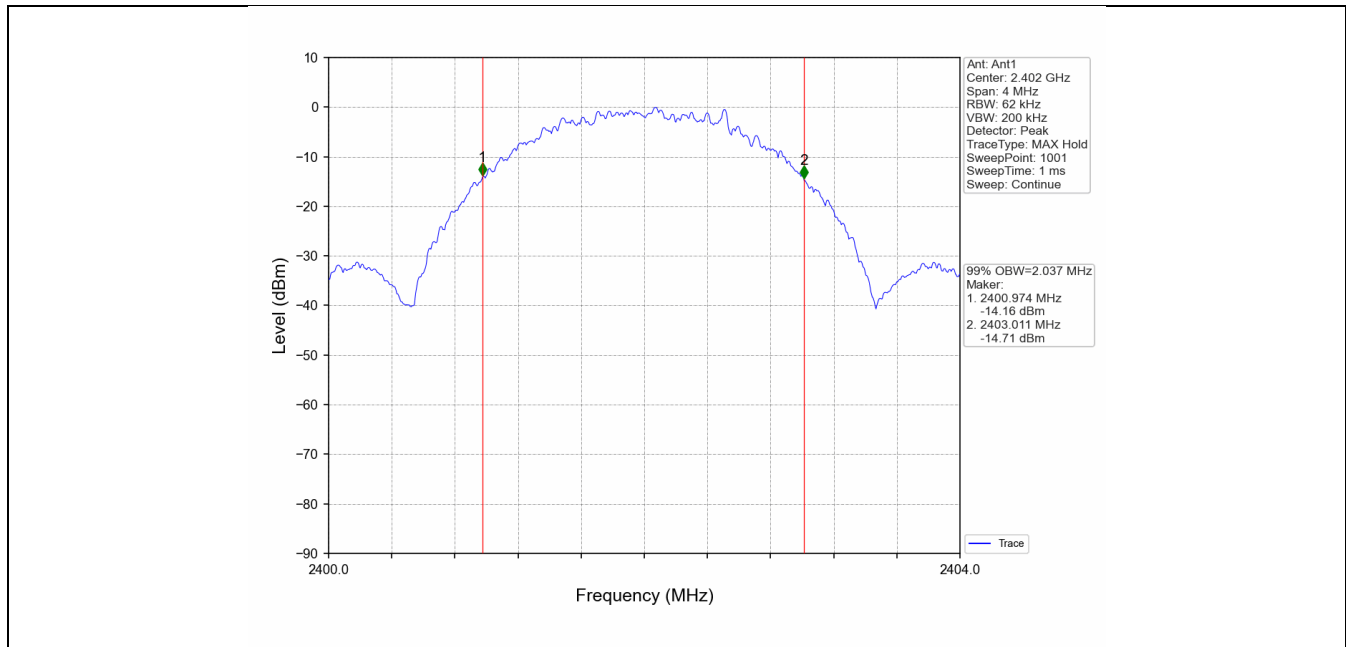
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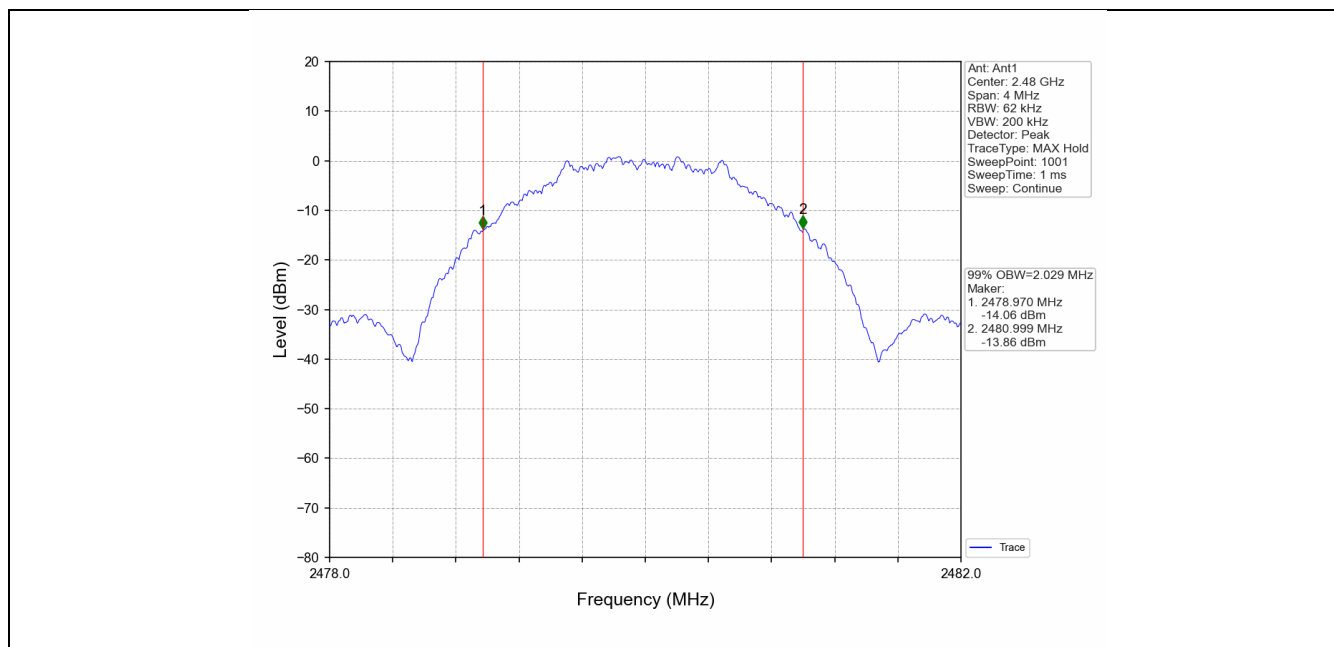
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## 2.2 6dB BW

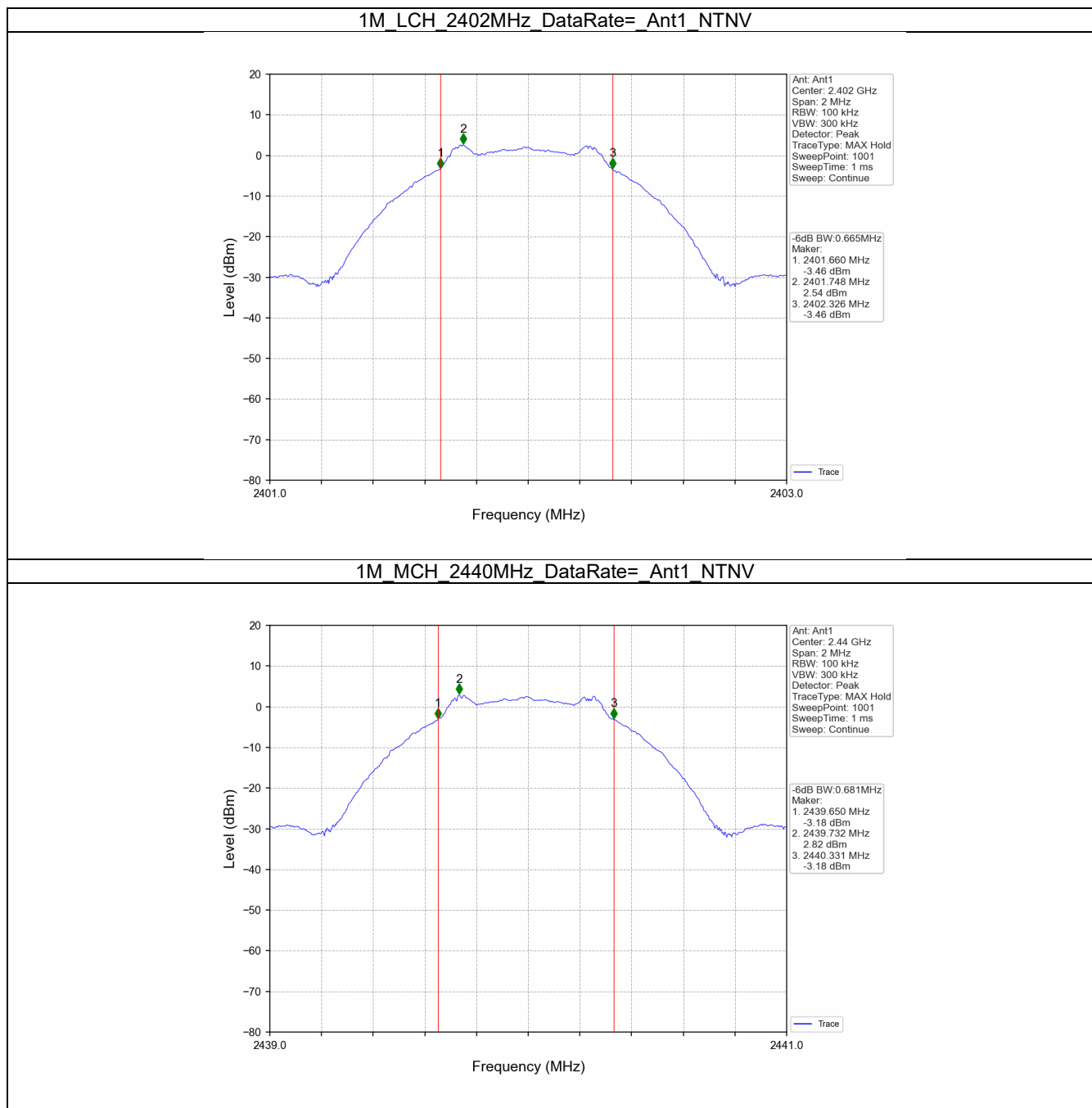
### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.665	$\geq 0.5$	Pass
		2440	1	0.681	$\geq 0.5$	Pass
		2480	1	0.673	$\geq 0.5$	Pass
2M	SISO	2402	1	1.391	$\geq 0.5$	Pass
		2440	1	1.356	$\geq 0.5$	Pass
		2480	1	1.309	$\geq 0.5$	Pass

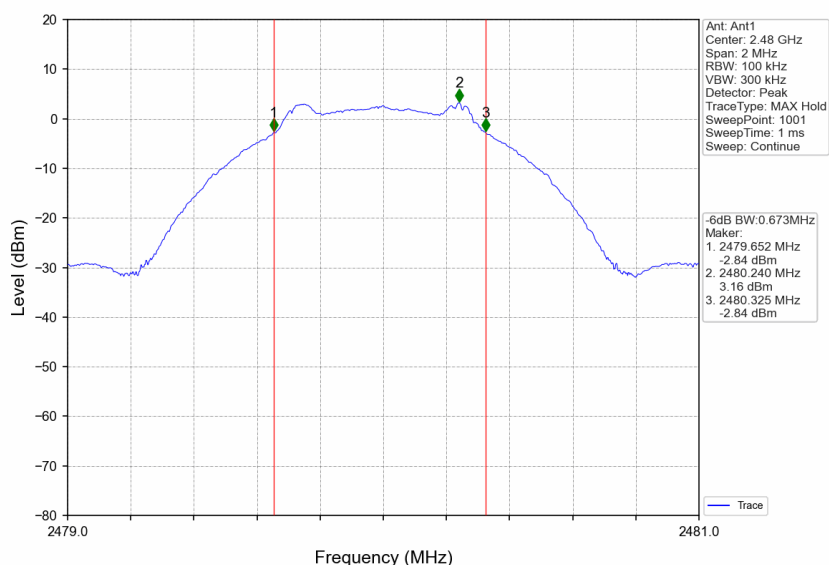




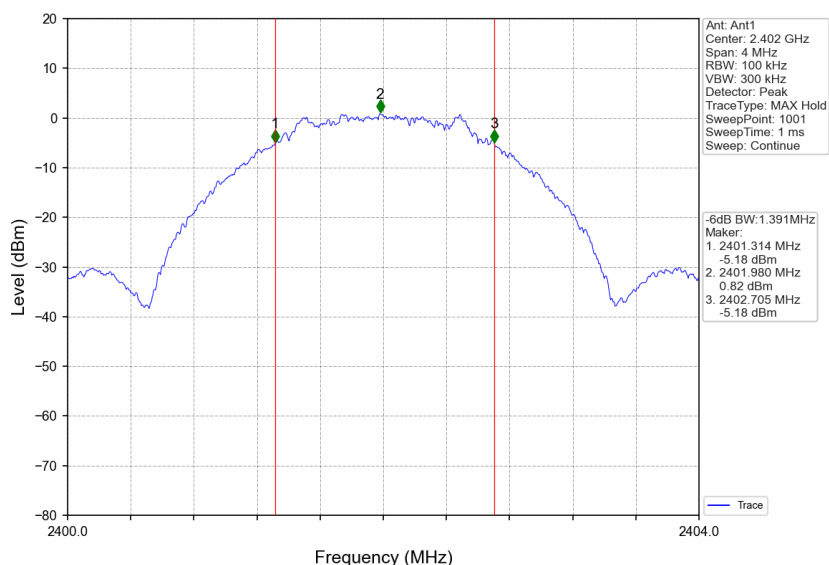
## 2.2.2 Test Graph



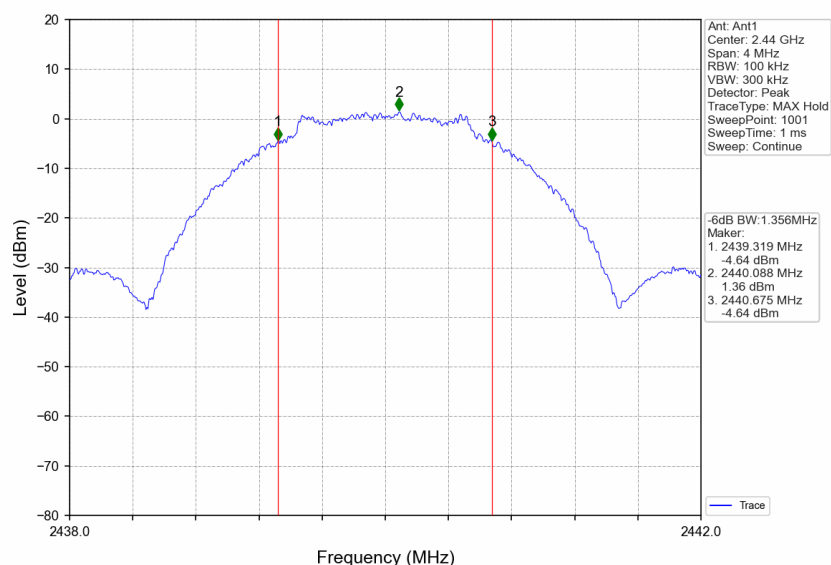
1M\_HCH\_2480MHz\_DataRate= Ant1\_NTNV



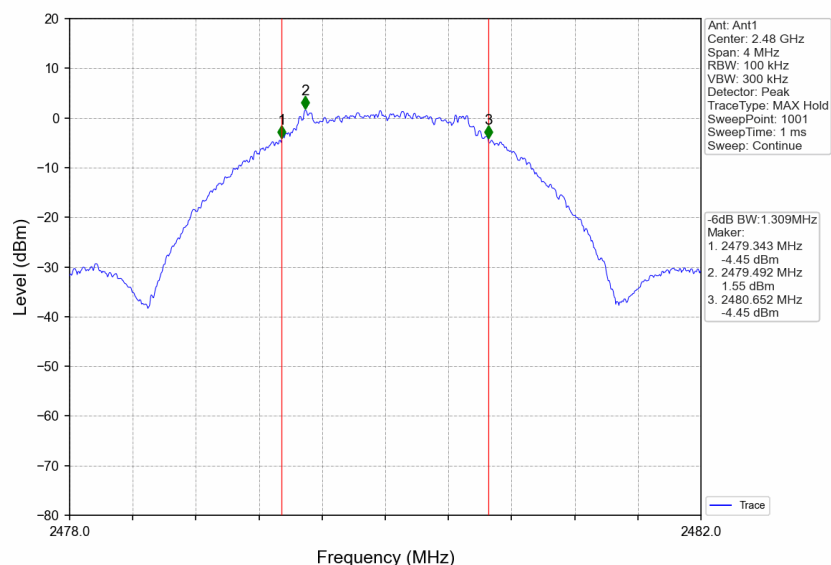
2M\_LCH\_2402MHz\_DataRate= Ant1\_NTNV



2M\_MCH\_2440MHz\_DataRate=\_Ant1\_NTNV



2M\_HCH\_2480MHz\_DataRate=\_Ant1\_NTNV



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### 3. Maximum Conducted Output Power

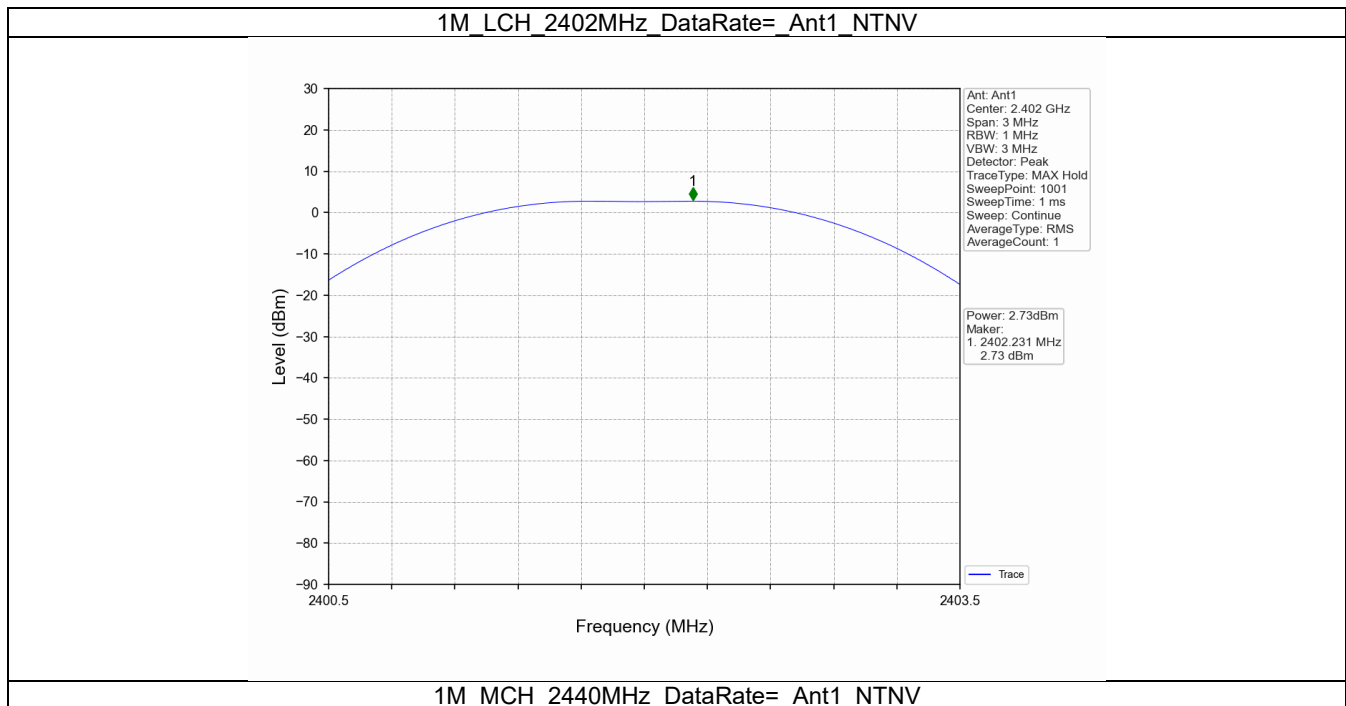
#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
1M	SISO	2402	2.73	<=30	Pass
		2440	3.09	<=30	Pass
		2480	3.30	<=30	Pass
2M	SISO	2402	2.66	<=30	Pass
		2440	3.08	<=30	Pass
		2480	3.15	<=30	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;

##### 3.1.2 Test Graph



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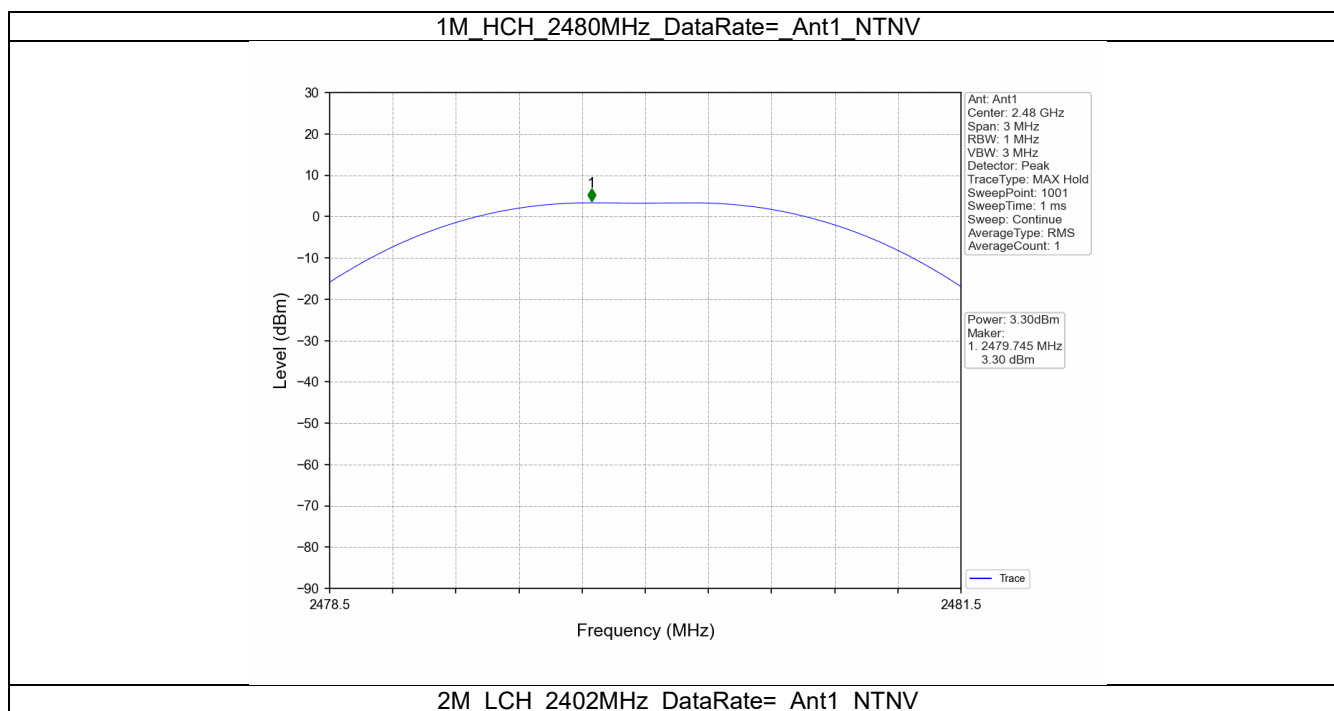
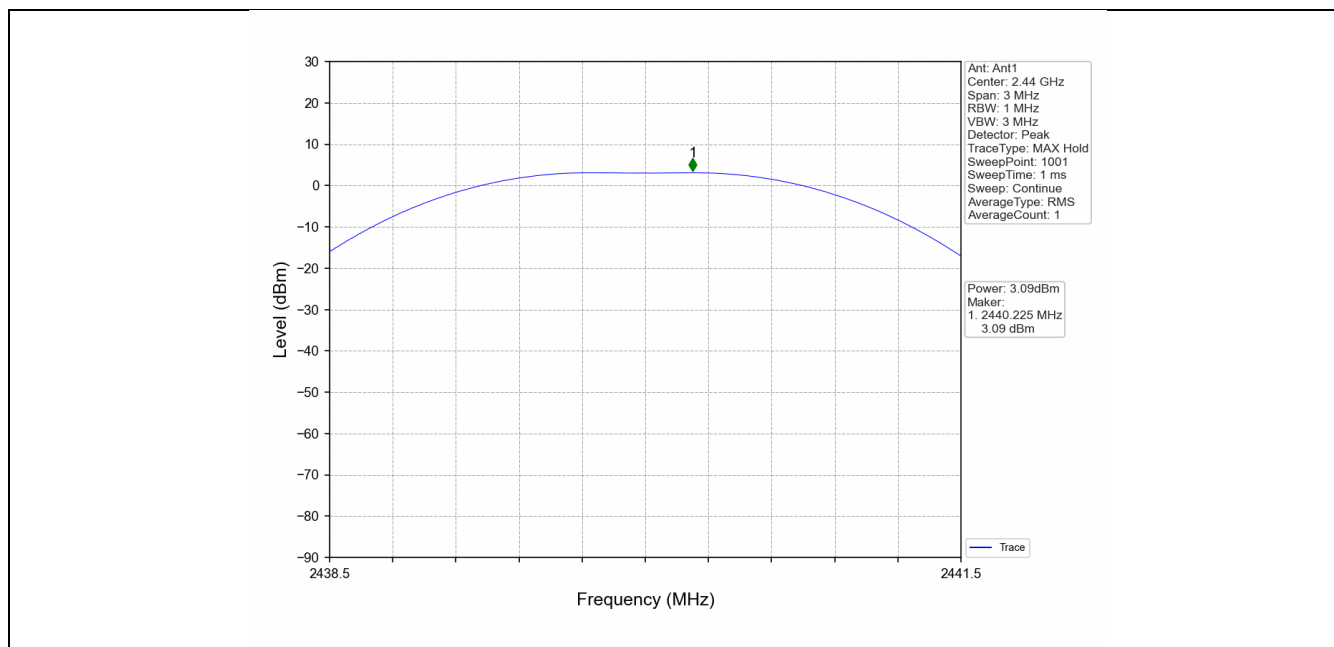
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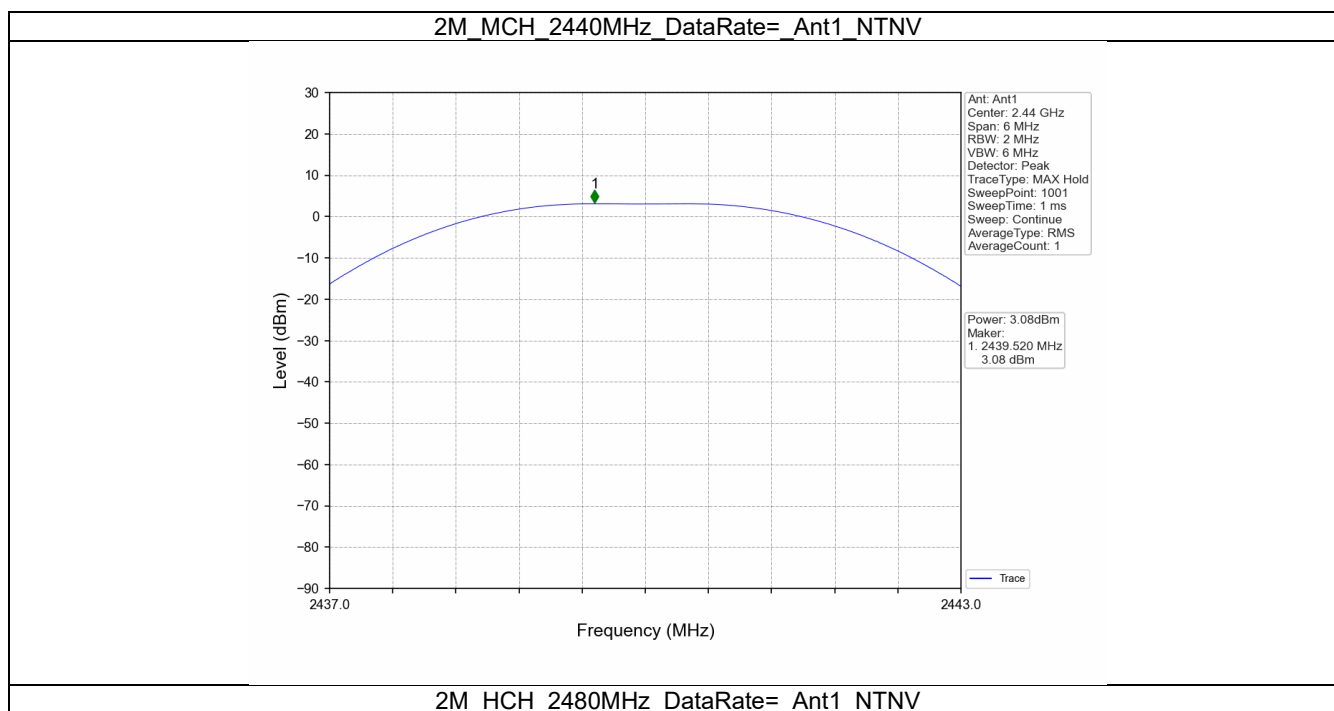
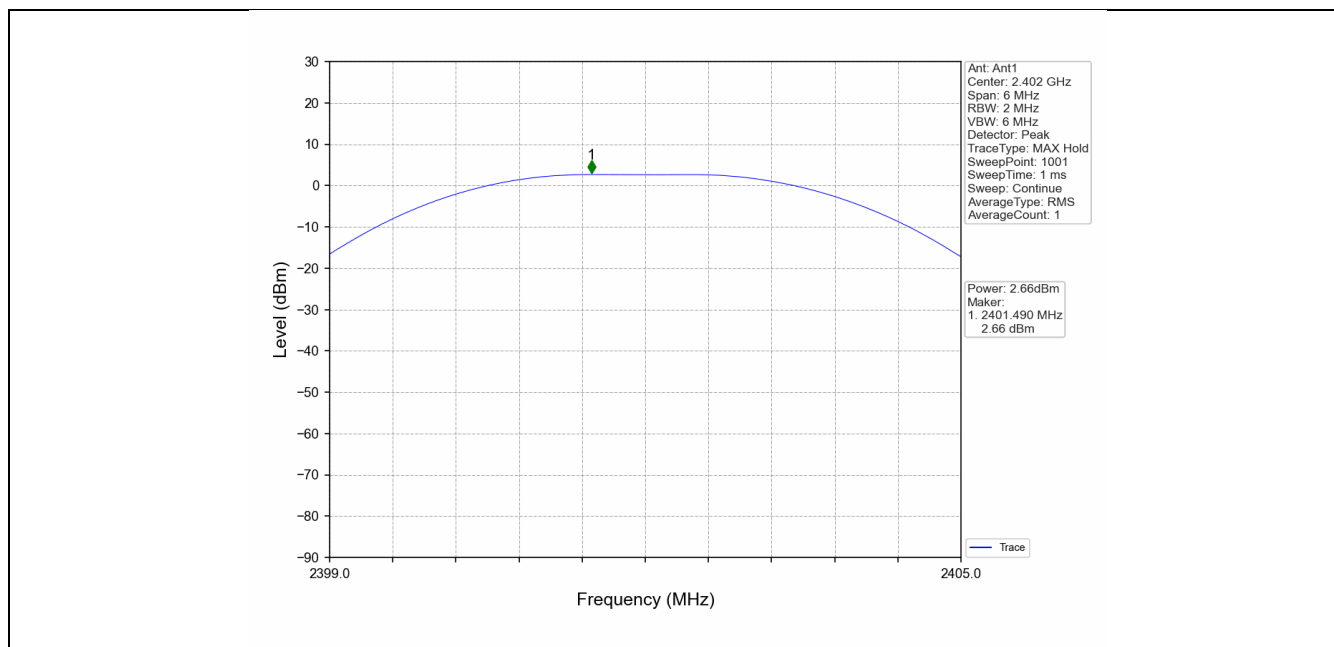
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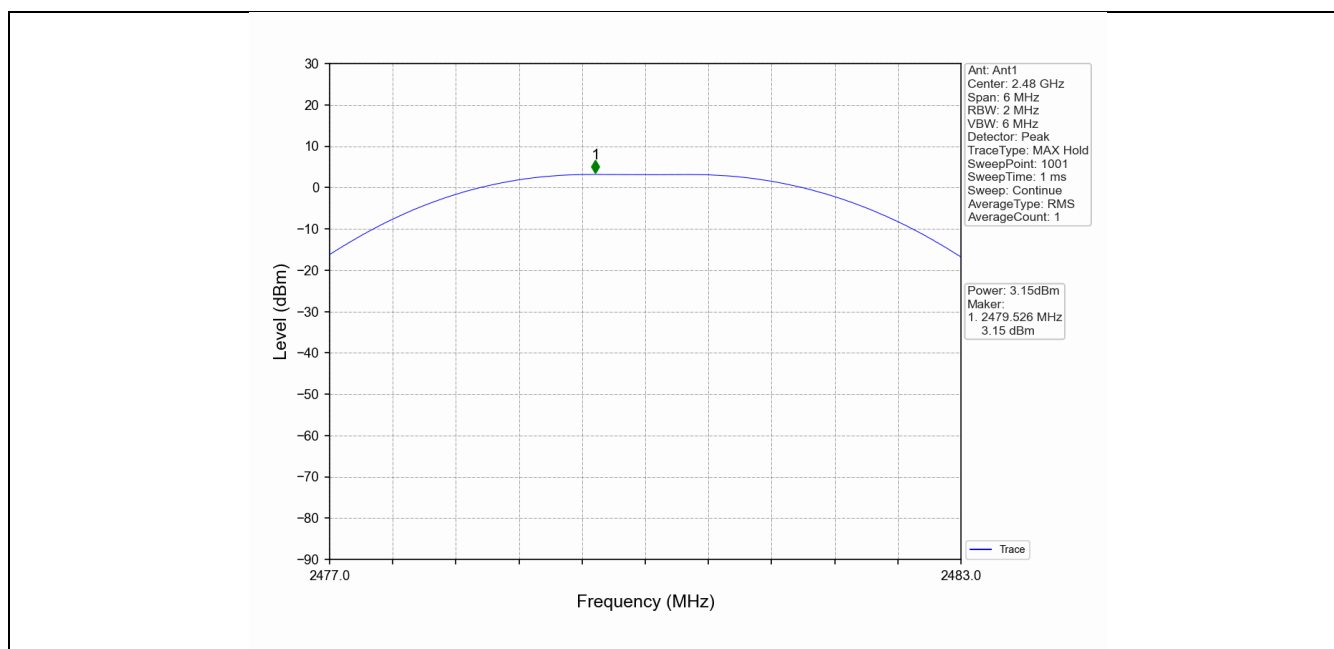
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## 4. Maximum Power Spectral Density

### 4.1 PSD

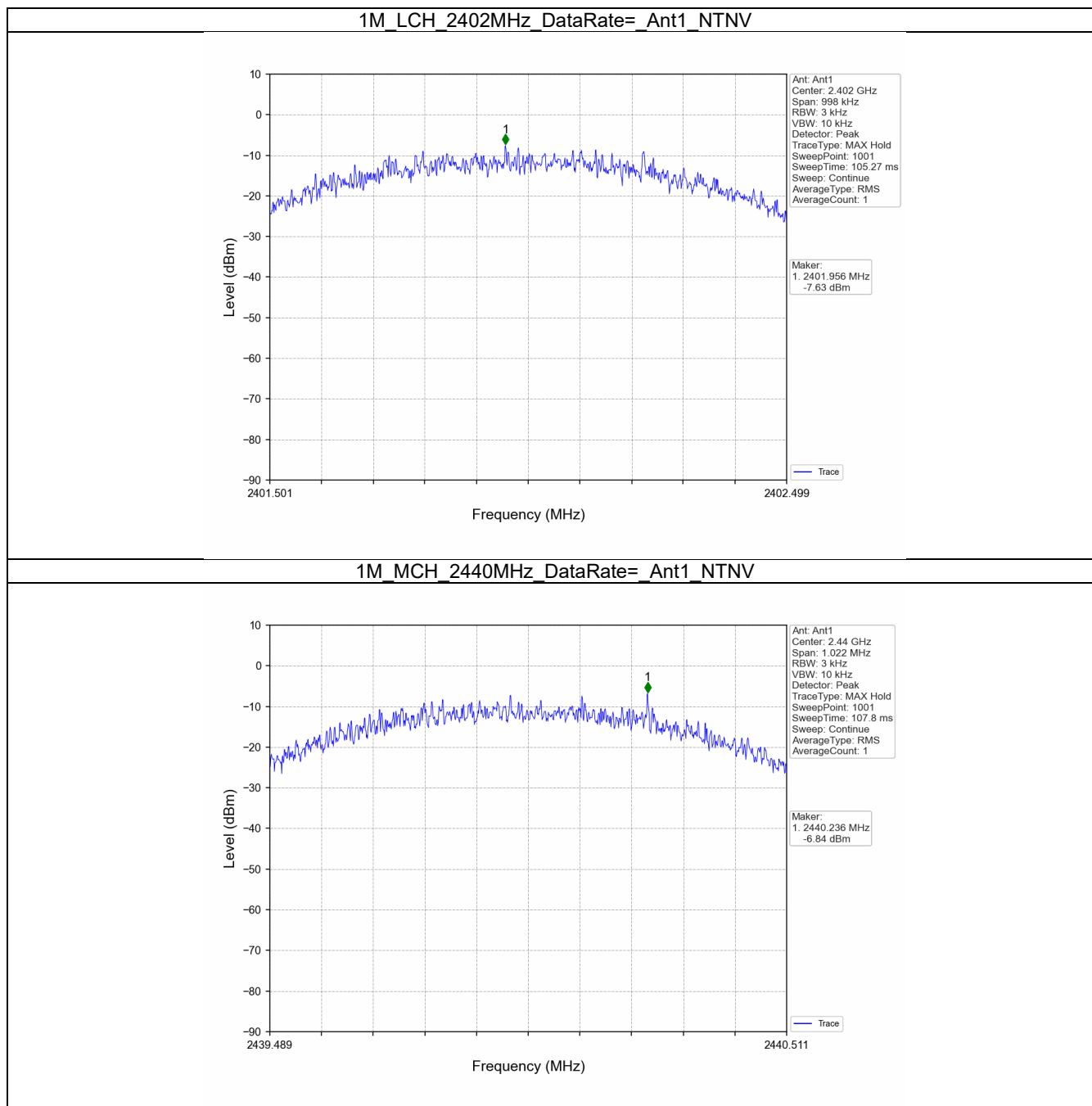
#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
1M	SISO	2402	-7.63	<=8	Pass
		2440	-6.84	<=8	Pass
		2480	-7.30	<=8	Pass
2M	SISO	2402	-11.59	<=8	Pass
		2440	-10.99	<=8	Pass
		2480	-9.68	<=8	Pass

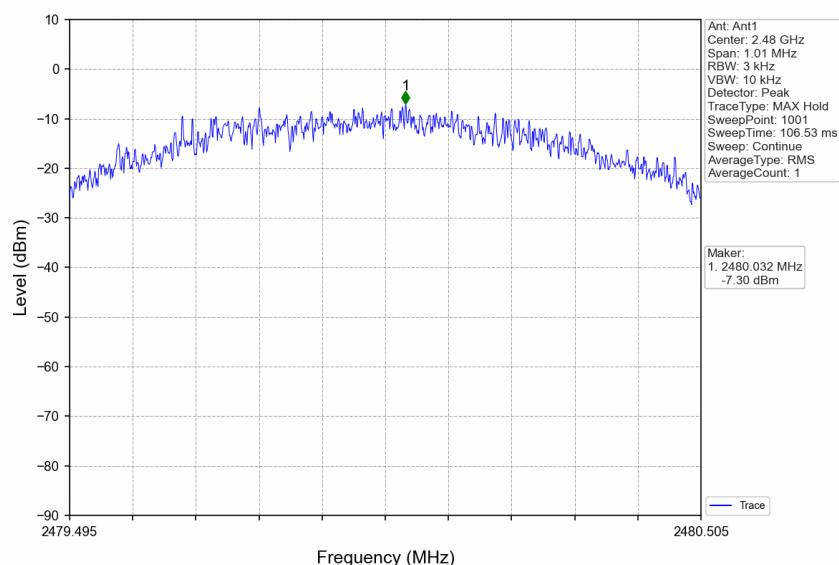
Note1: Antenna Gain: Ant1: 0.00dBi;



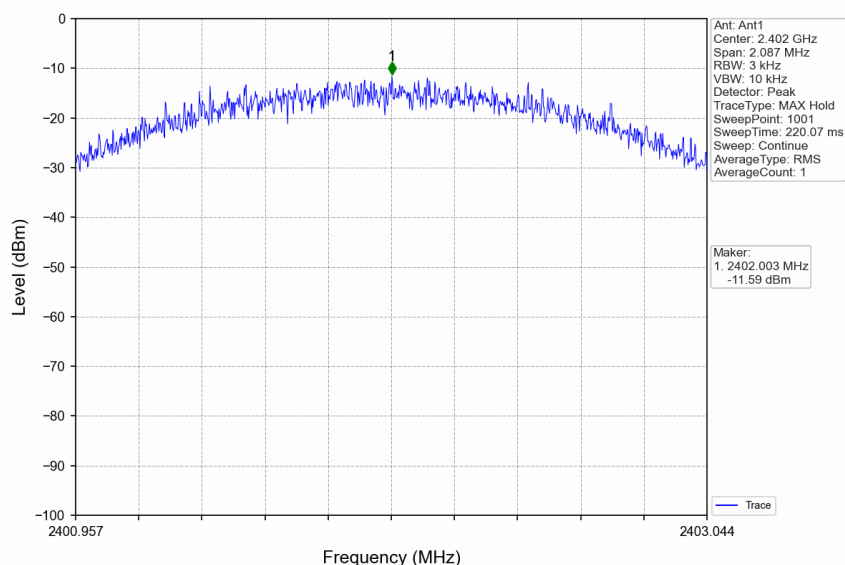
## 4.1.2 Test Graph



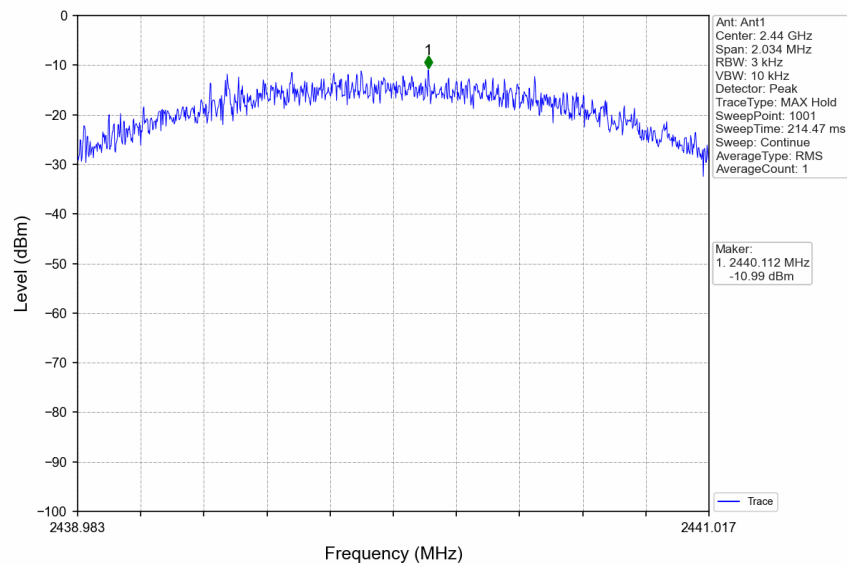
1M\_HCH\_2480MHz\_DataRate= Ant1\_NTNV



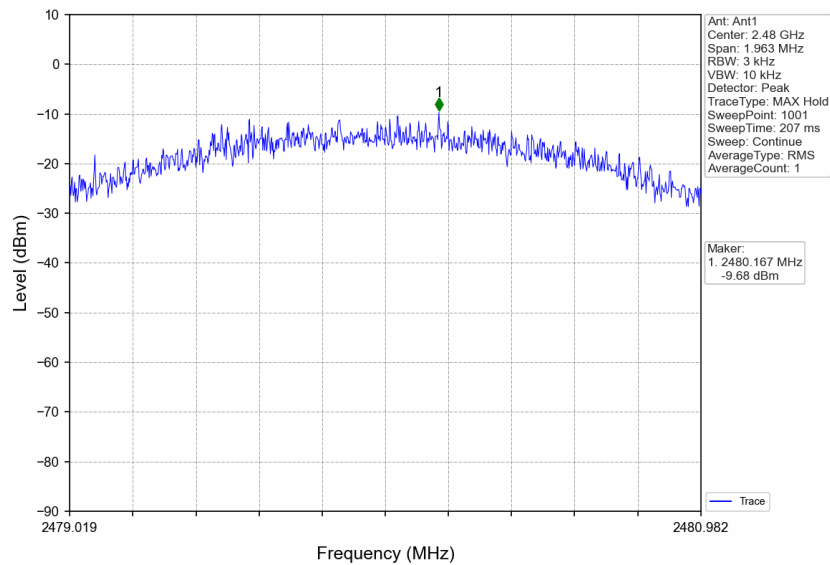
2M\_LCH\_2402MHz\_DataRate= Ant1\_NTNV



2M\_MCH\_2440MHz\_DataRate=\_Ant1\_NTNV



2M\_HCH\_2480MHz\_DataRate=\_Ant1\_NTNV



## 5. Unwanted Emissions In Non-restricted Frequency Bands

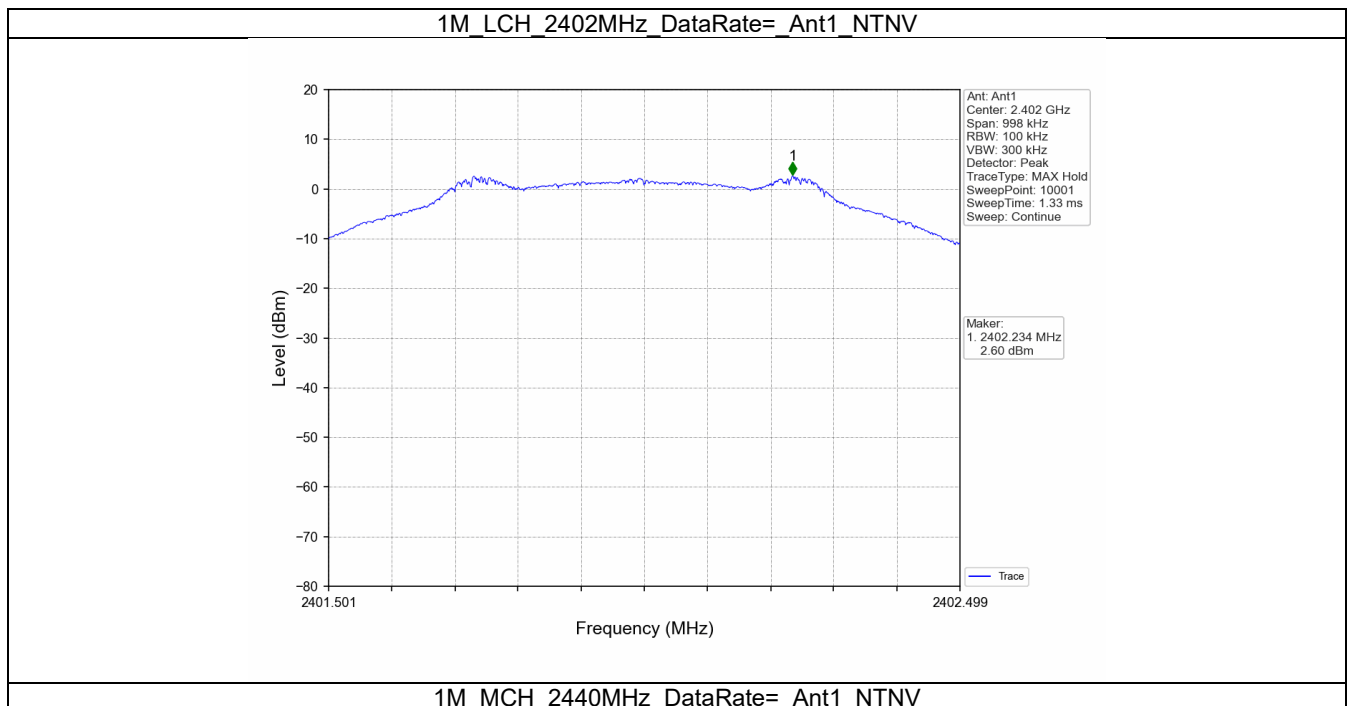
### 5.1 Ref

#### 5.1.1 Test Result

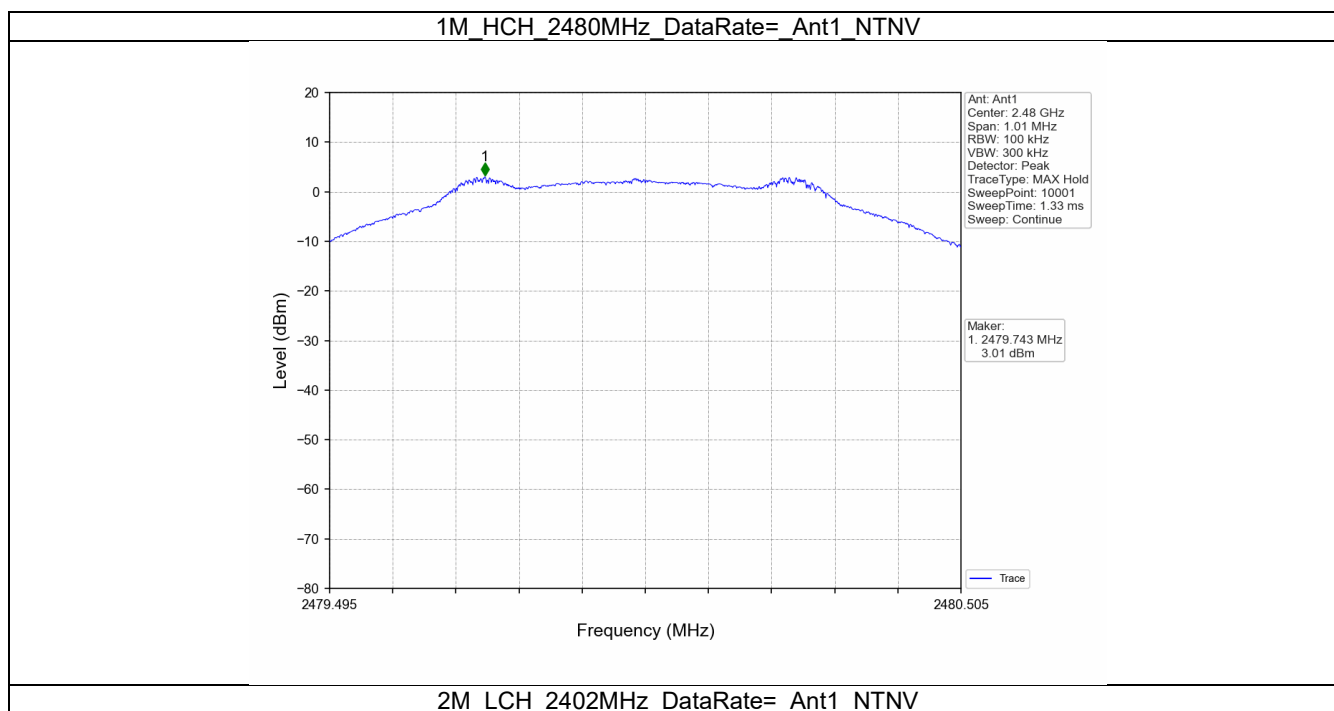
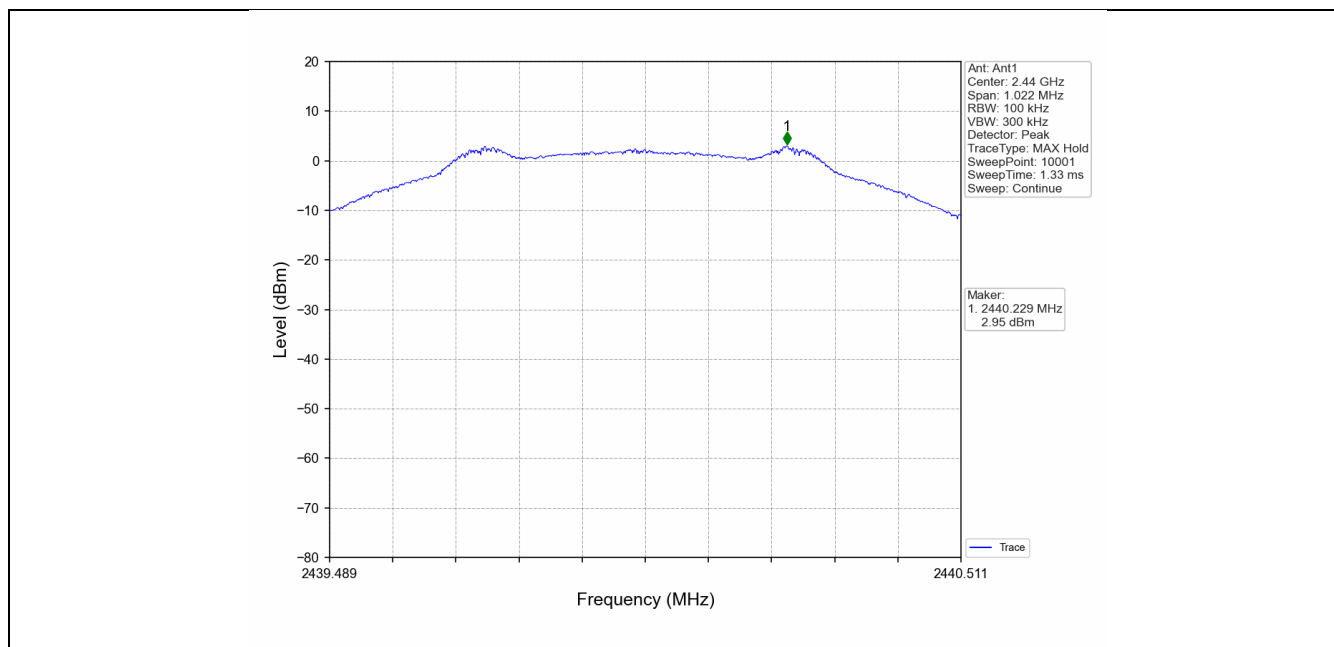
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
1M	SISO	2402	1	2.60
		2440	1	2.95
		2480	1	3.01
2M	SISO	2402	1	1.28
		2440	1	1.49
		2480	1	1.64

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

#### 5.1.2 Test Graph







2M\_LCH\_2402MHz\_DataRate= Ant1\_NTNV

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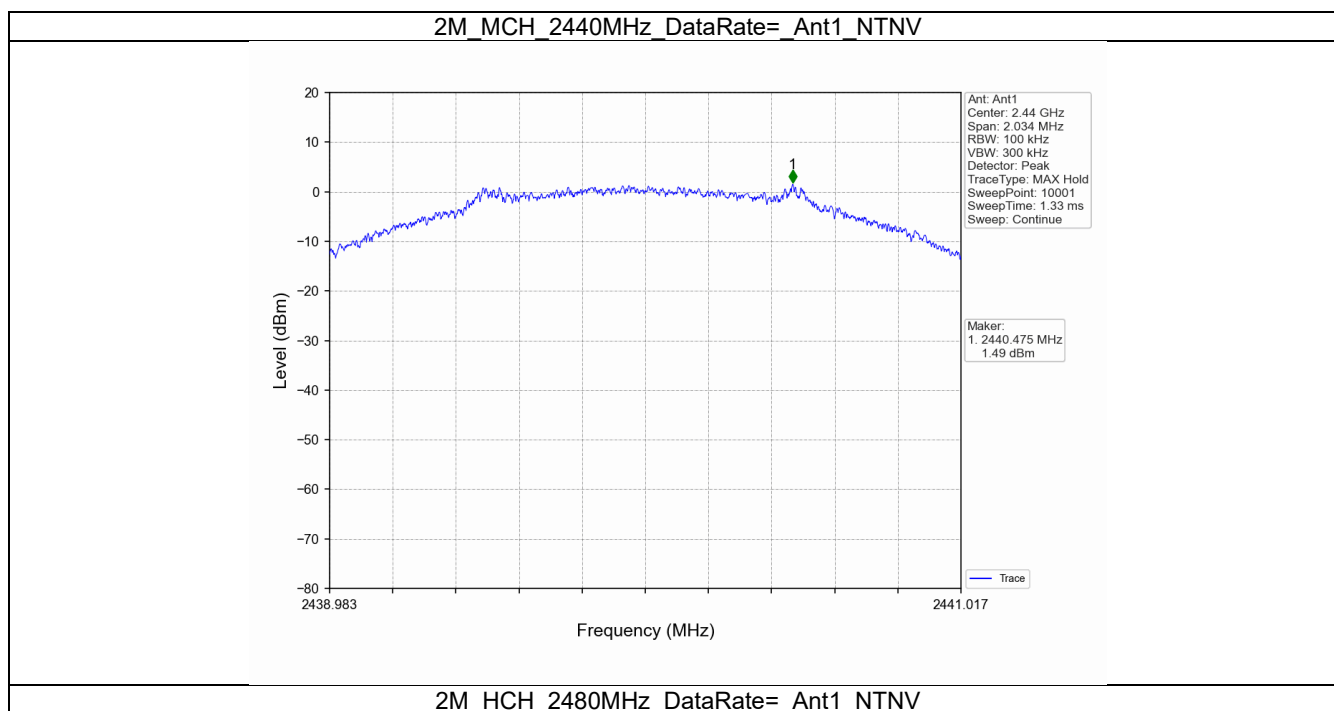
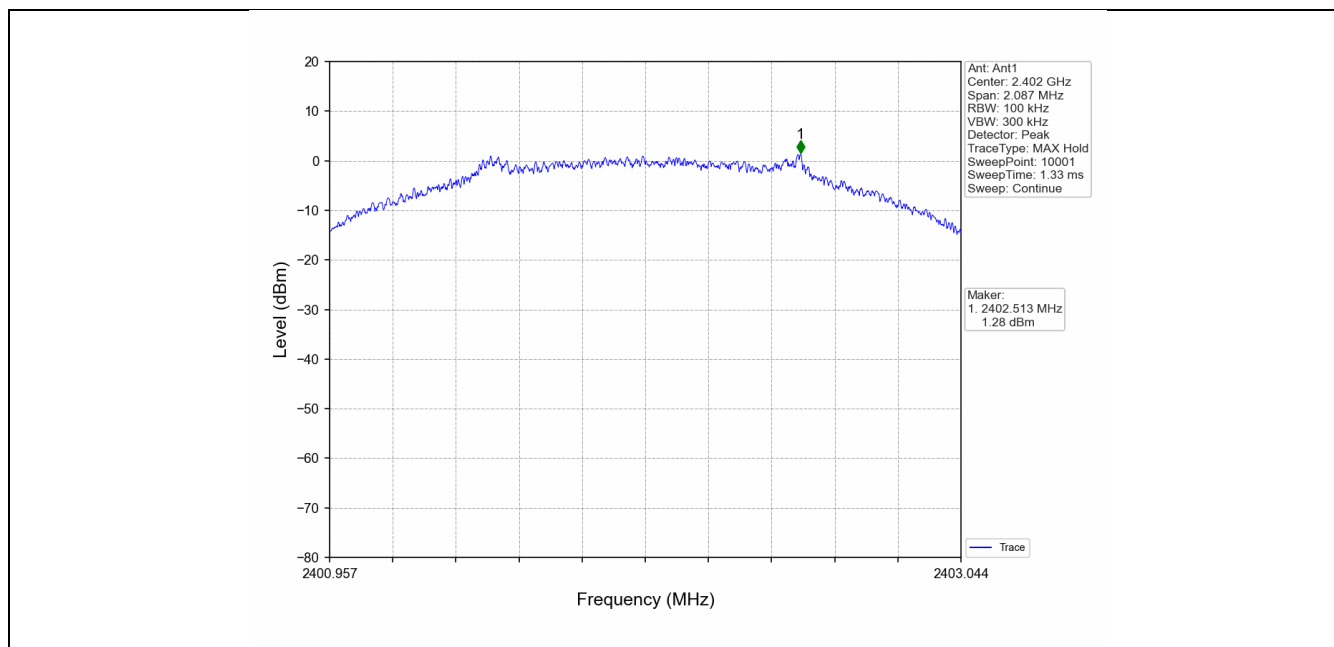
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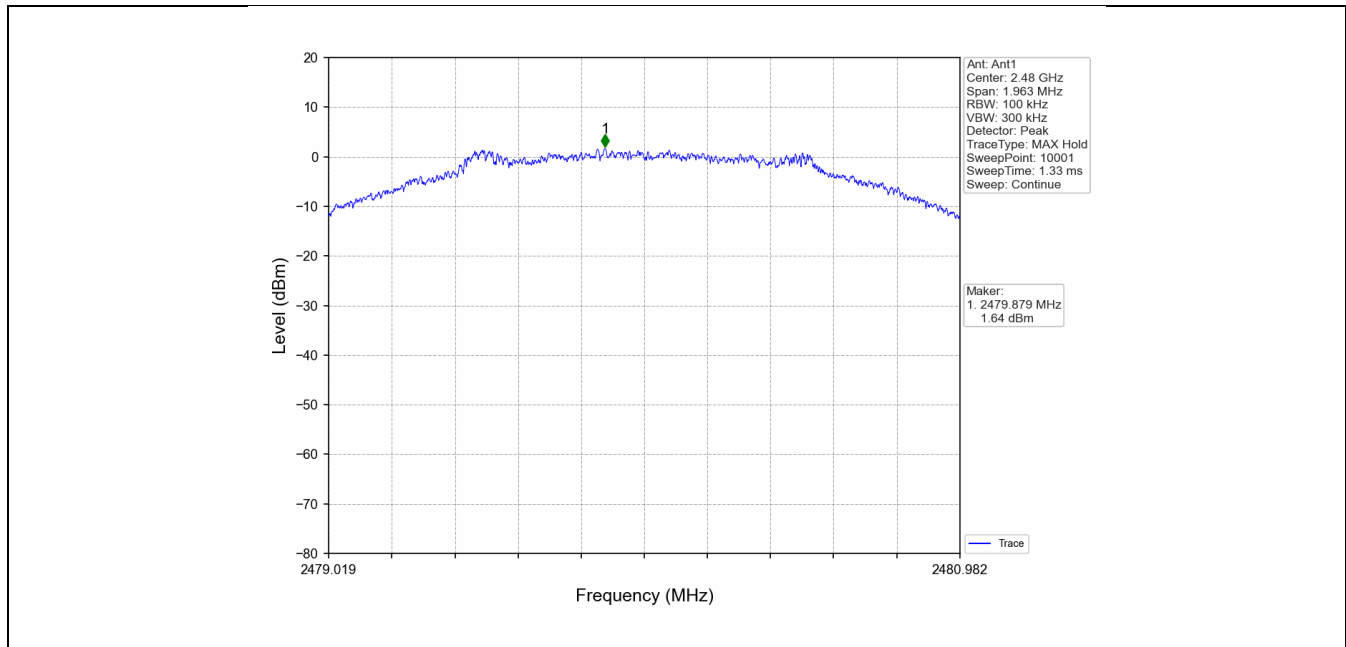
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## 5.2 CSE

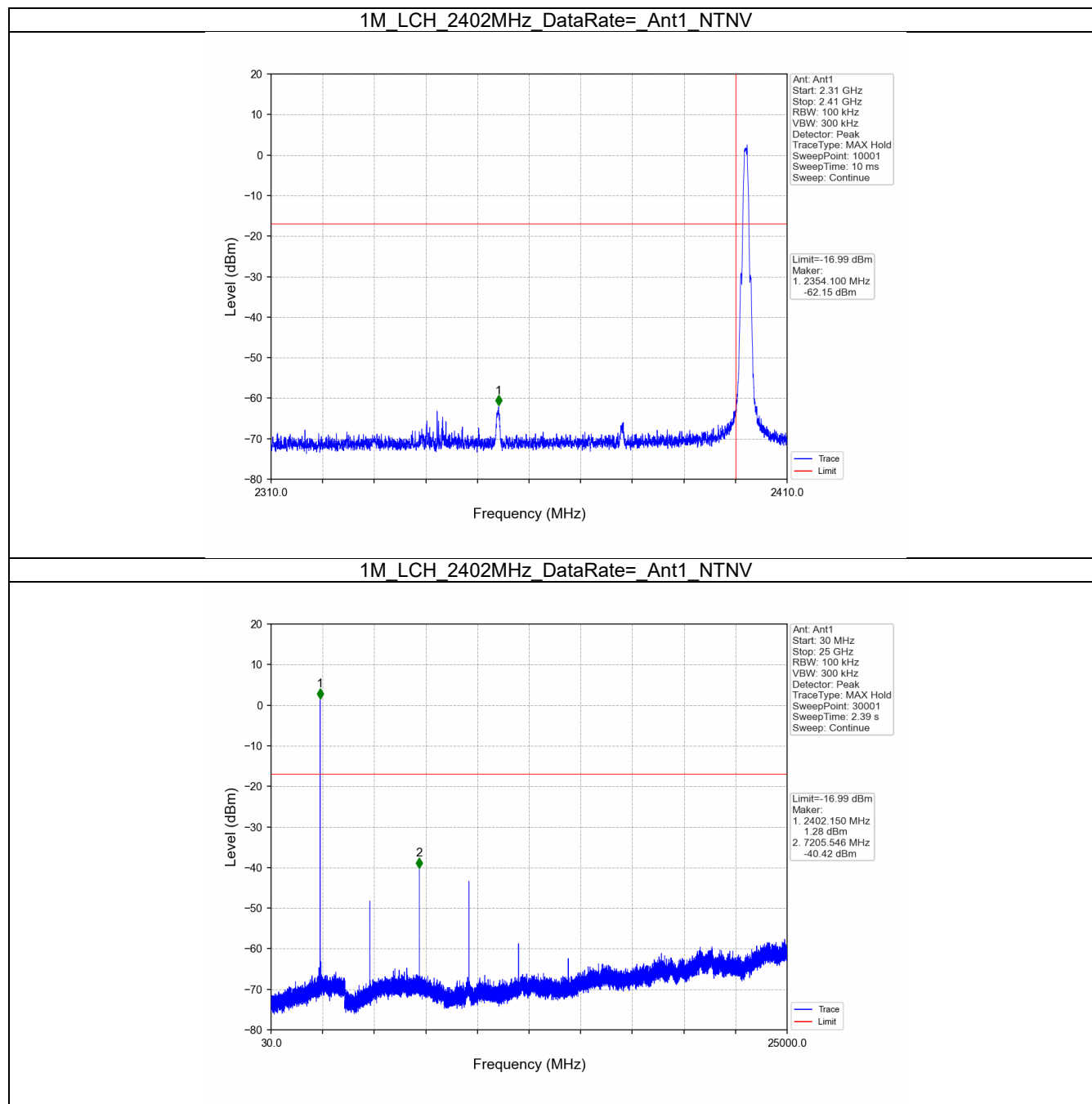
### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	3.01	-16.99	Pass
		2440	1	3.01	-16.99	Pass
		2480	1	3.01	-16.99	Pass
2M	SISO	2402	1	1.64	-18.36	Pass
		2440	1	1.64	-18.36	Pass
		2480	1	1.64	-18.36	Pass

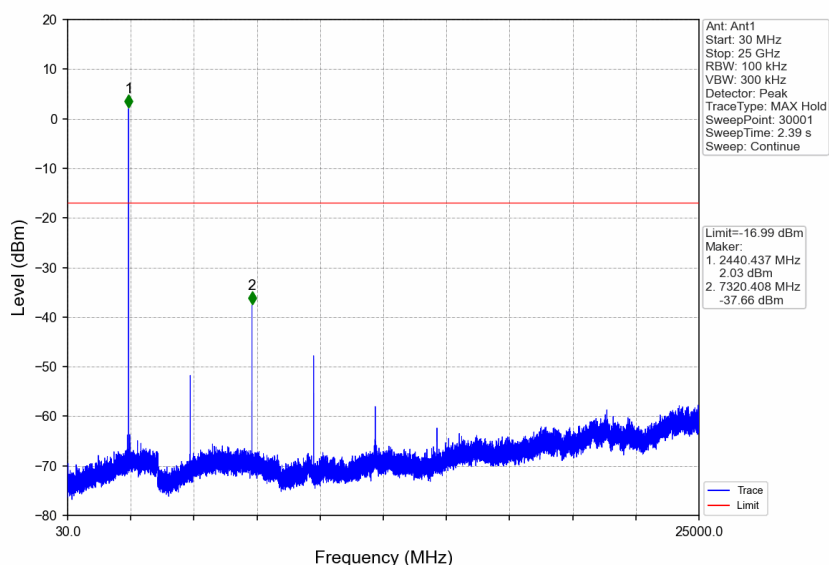
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



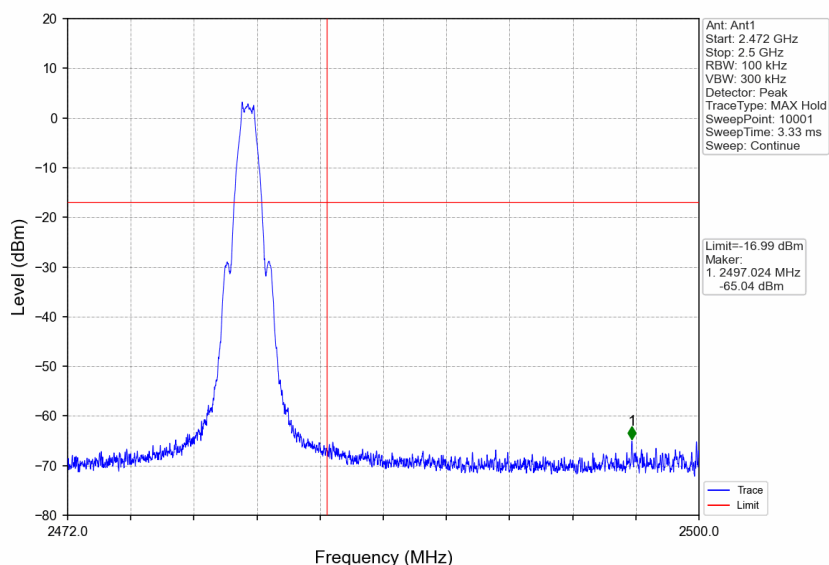
## 5.2.2 Test Graph



1M\_MCH\_2440MHz\_DataRate=\_Ant1\_NTNV



1M\_HCH\_2480MHz\_DataRate=\_Ant1\_NTNV



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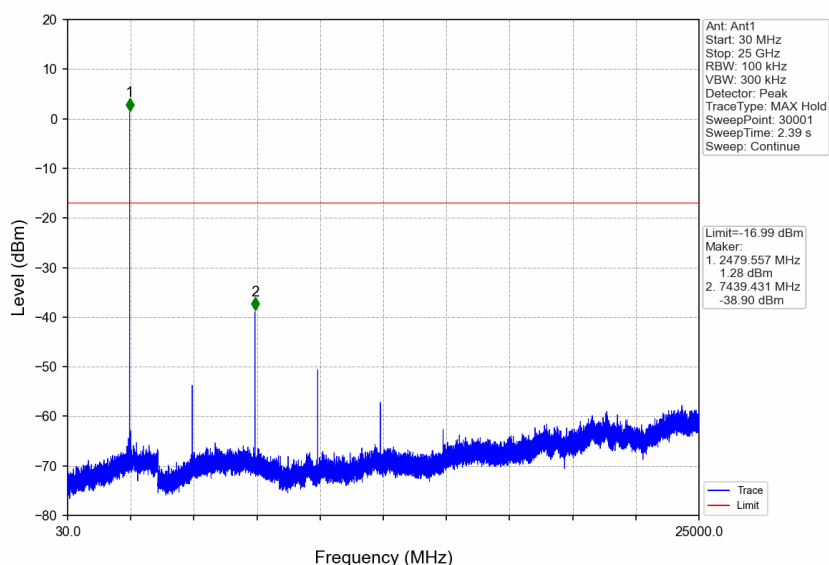
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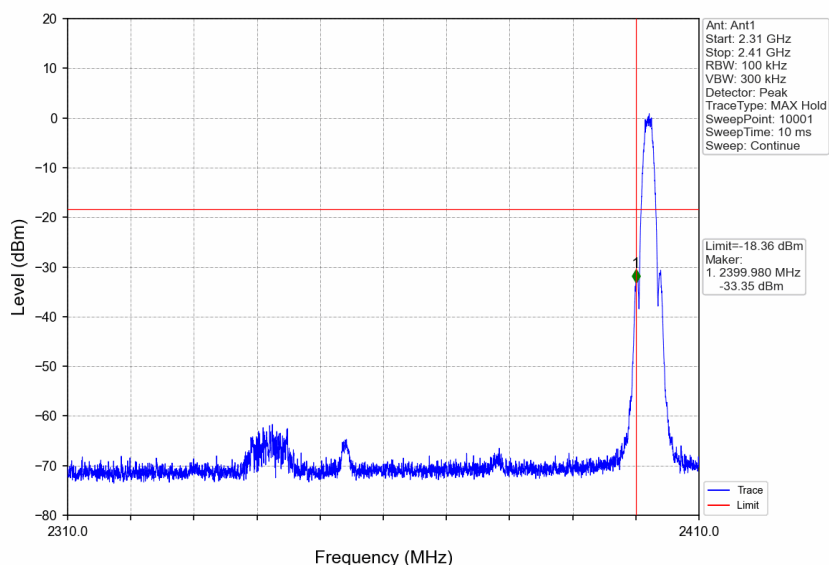
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1M\_HCH\_2480MHz\_DataRate= Ant1\_NTNV



2M\_LCH\_2402MHz\_DataRate= Ant1\_NTNV



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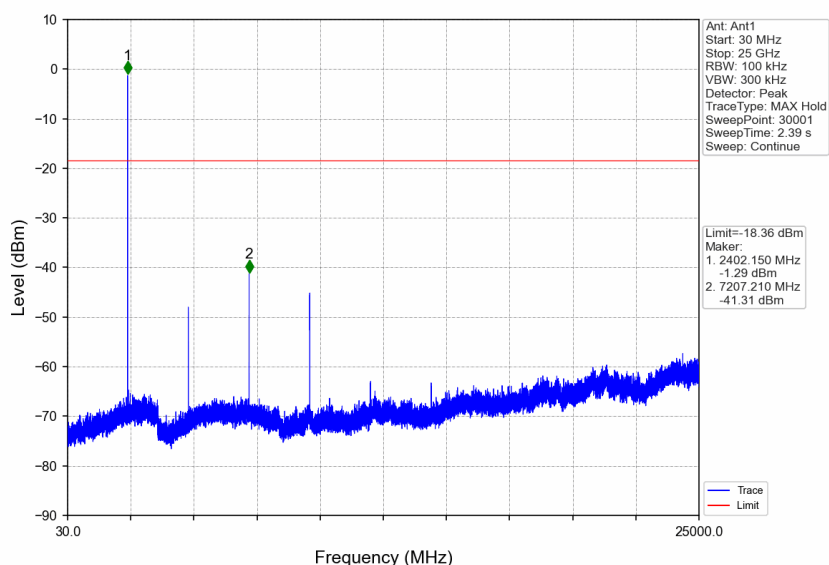
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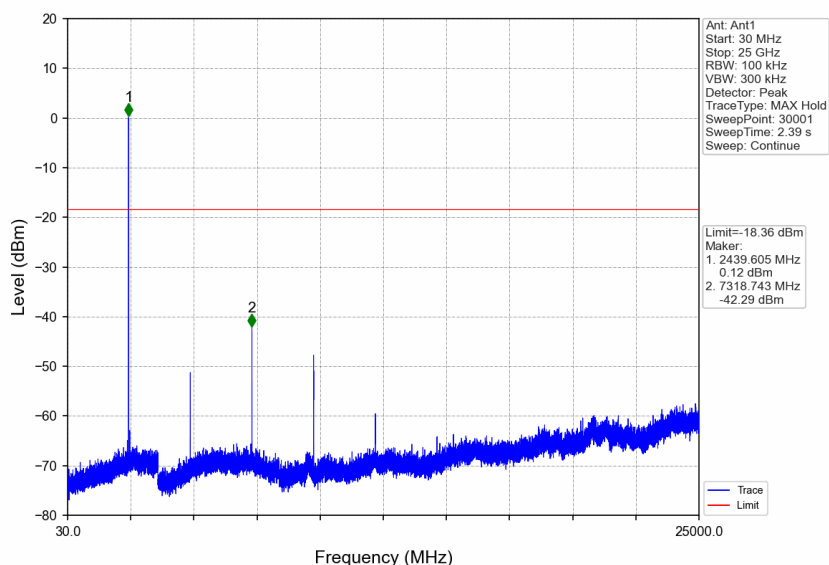
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2M\_LCH\_2402MHz\_DataRate= Ant1\_NTNV



2M\_MCH\_2440MHz\_DataRate= Ant1\_NTNV



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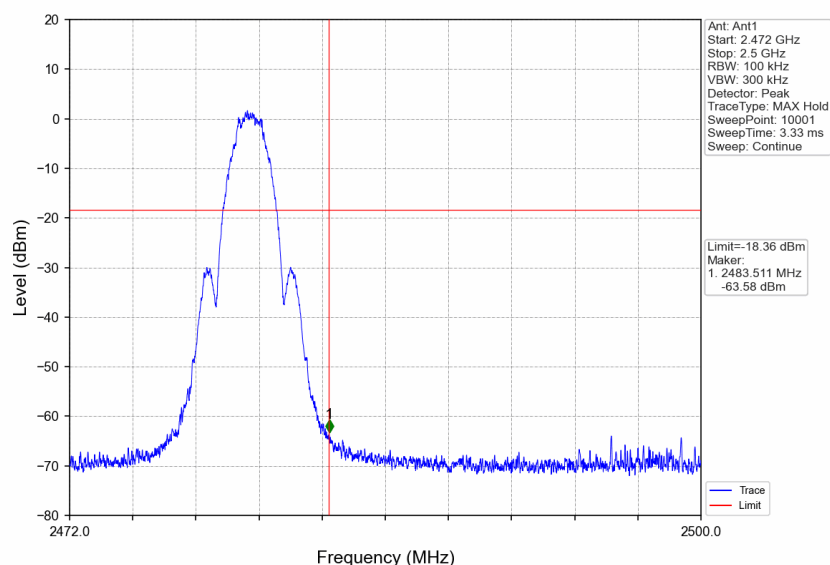
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2M\_HCH\_2480MHz\_DataRate=\_Ant1\_NTNV



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