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Annex for Bluetooth Low Energy

Test Report No.: CTL2608318011-WF

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1. Duty Cycle

1.1 Test Result

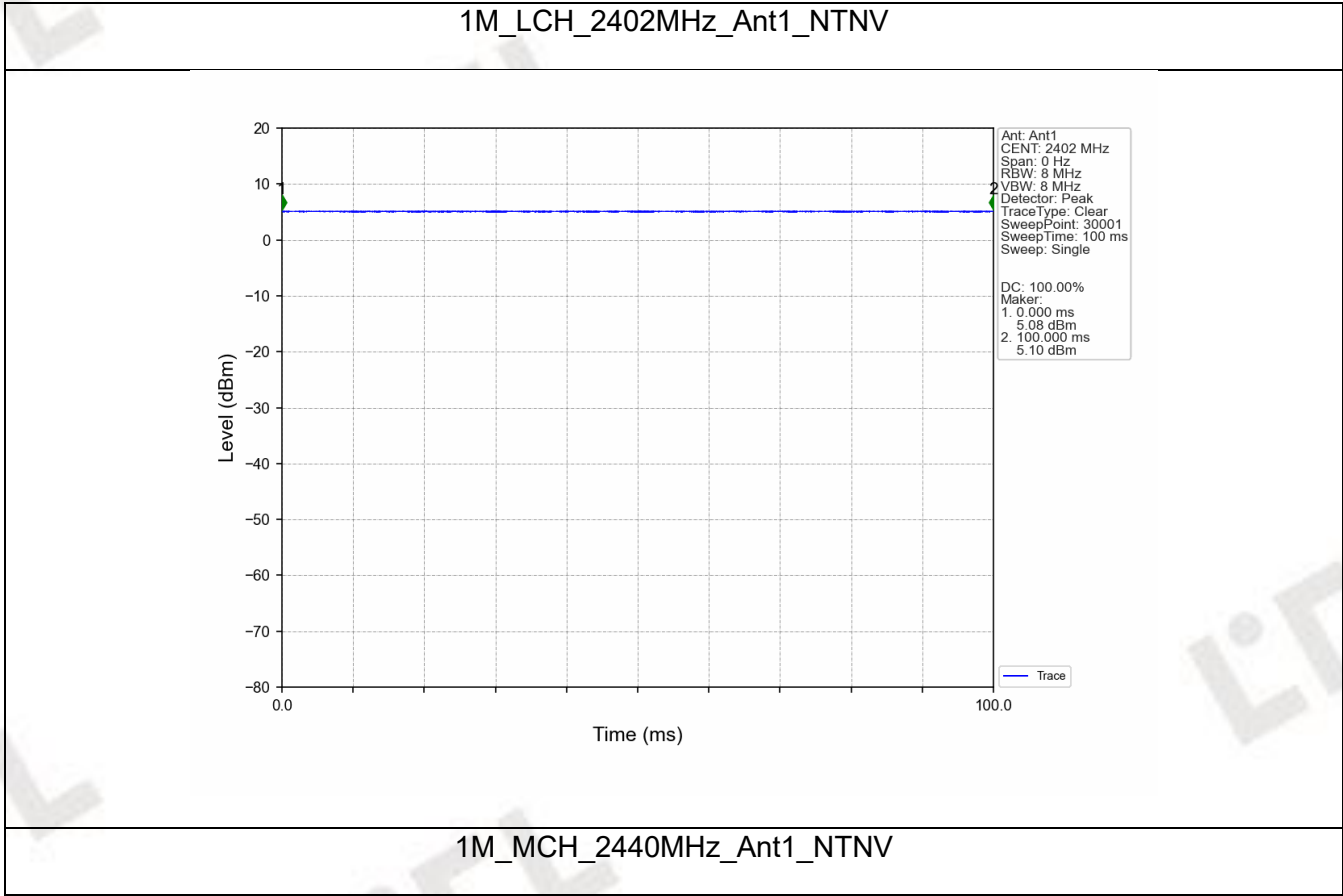
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (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

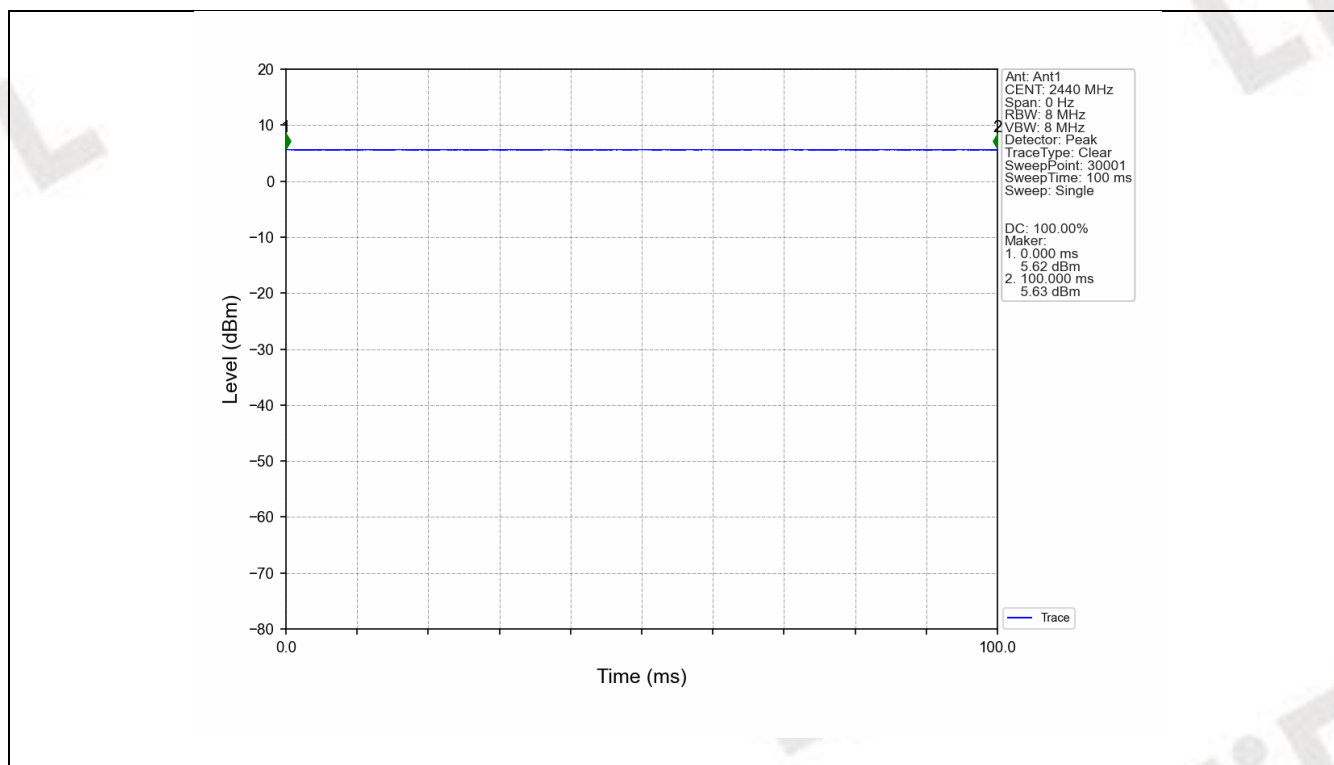
FCC ID: 2AYLI-CBXBTRF1022

1.2 Test Graph

1.2.1 Ant1

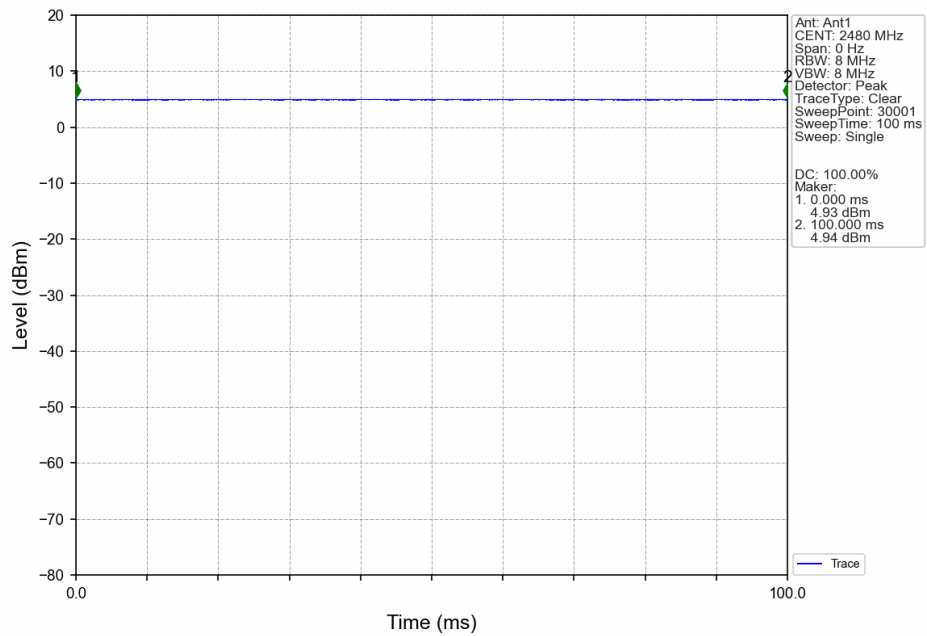


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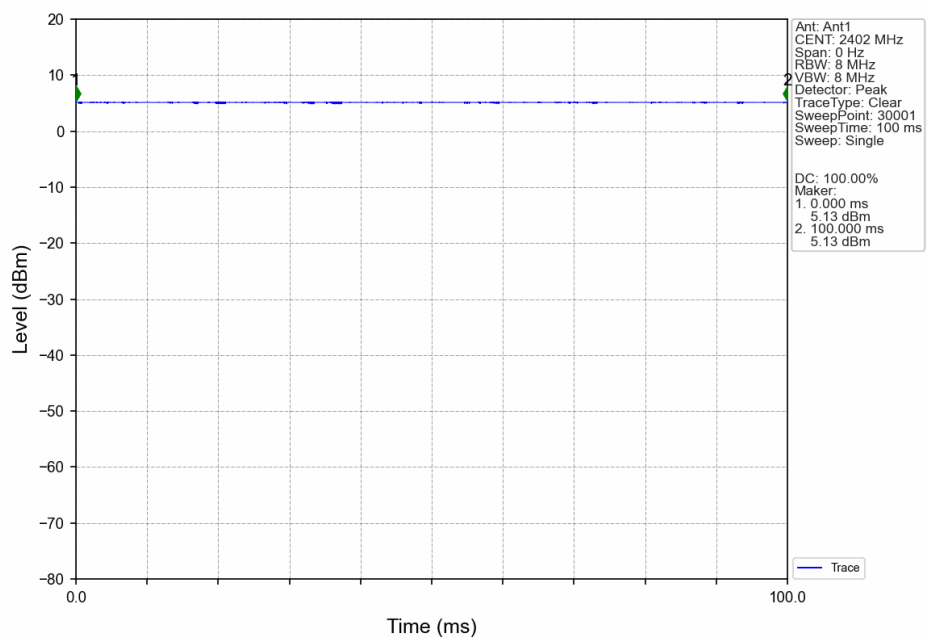


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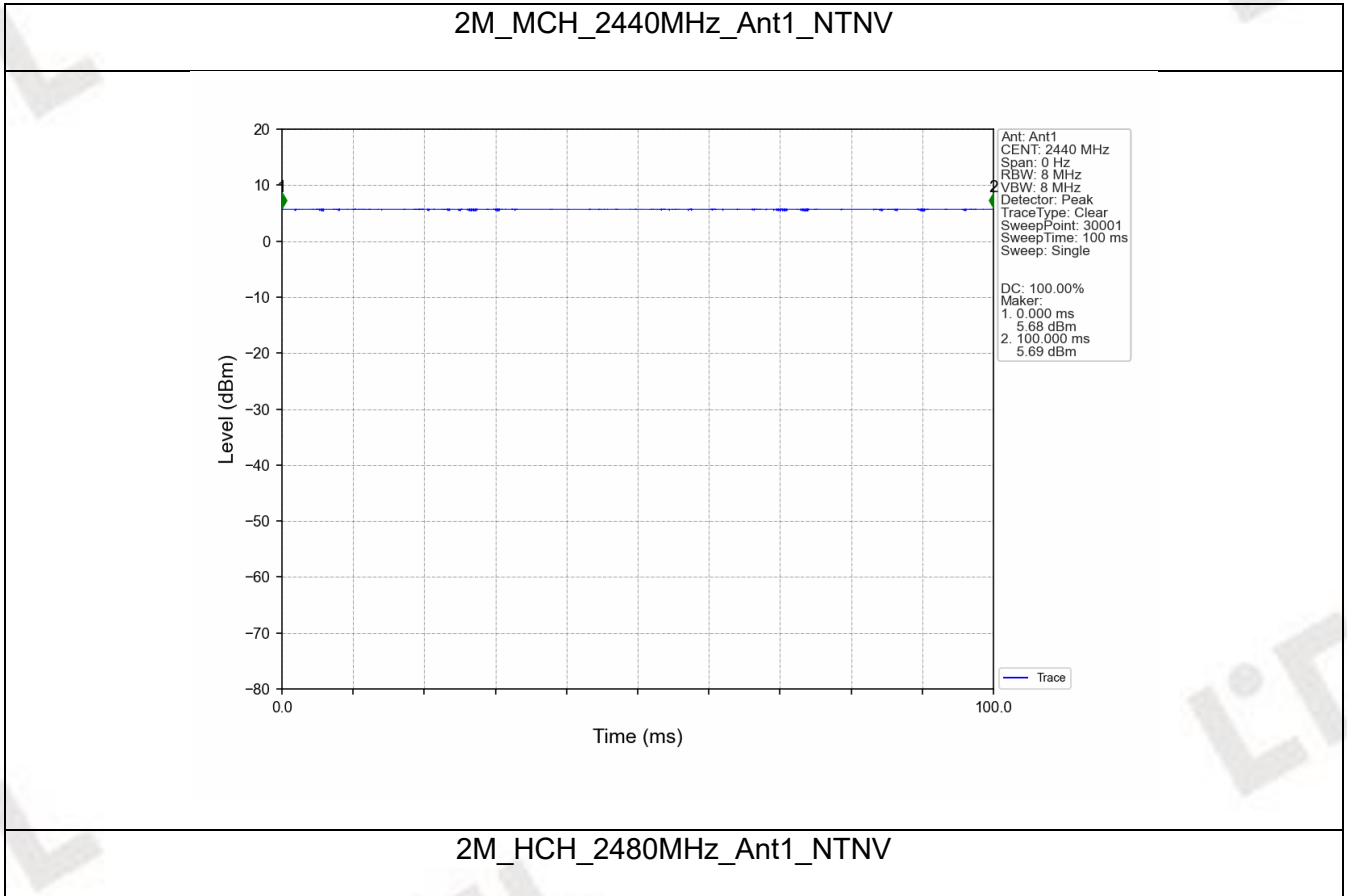
1M_HCH_2480MHz_Ant1_NTNV



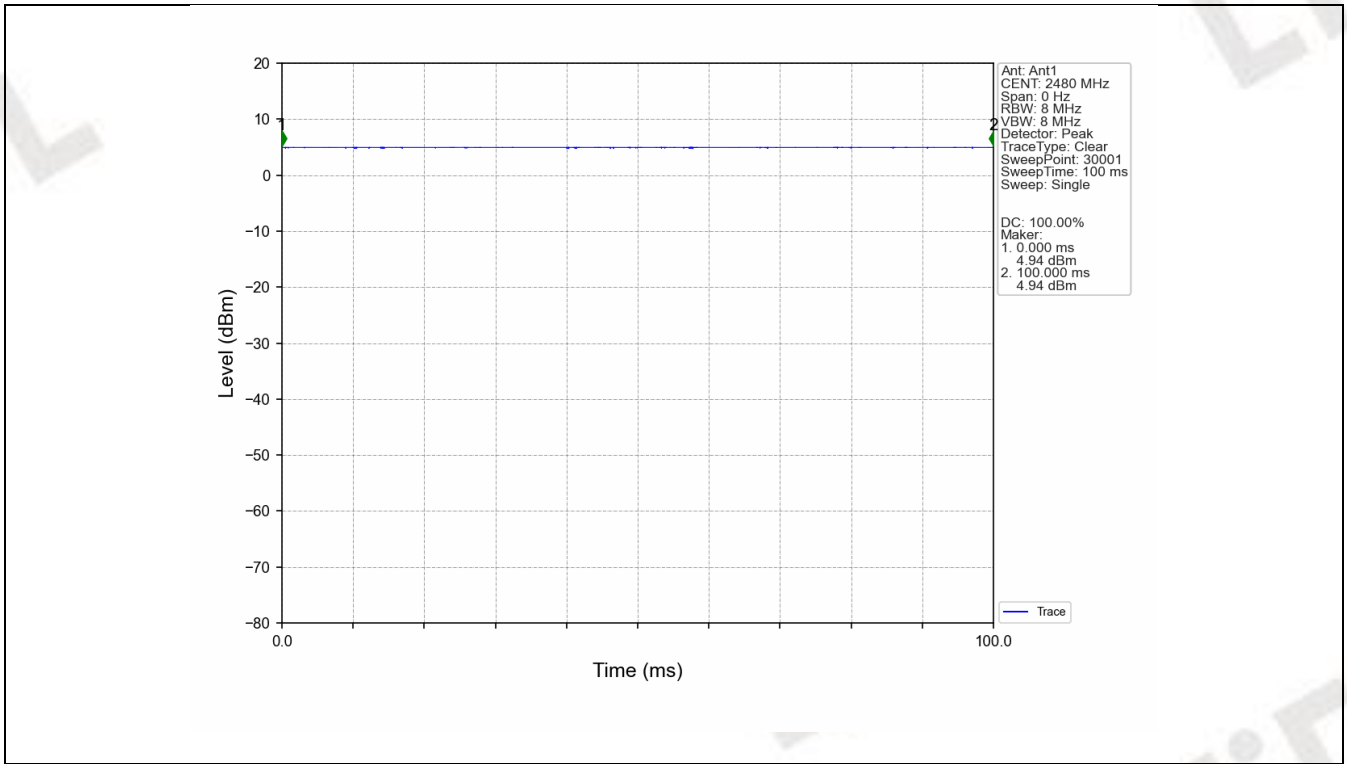
2M_LCH_2402MHz_Ant1_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.028	/	Pass
		2440	1	1.034	/	Pass
		2480	1	1.021	/	Pass
2M	SISO	2402	1	2.045	/	Pass
		2440	1	2.041	/	Pass
		2480	1	2.051	/	Pass

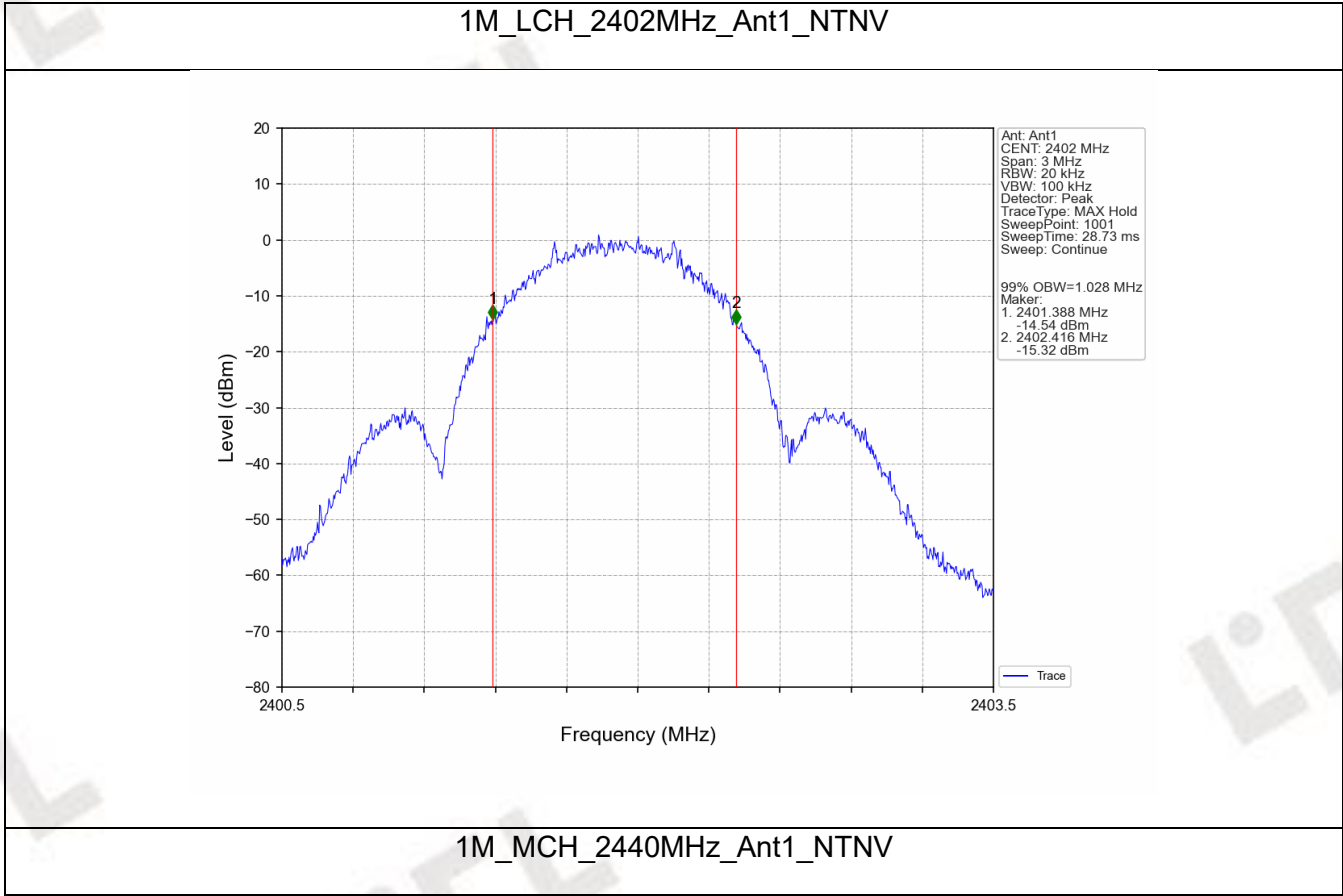
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.686	≥ 0.5	Pass
		2440	1	0.676	≥ 0.5	Pass
		2480	1	0.676	≥ 0.5	Pass
2M	SISO	2402	1	1.362	≥ 0.5	Pass
		2440	1	1.331	≥ 0.5	Pass
		2480	1	1.321	≥ 0.5	Pass

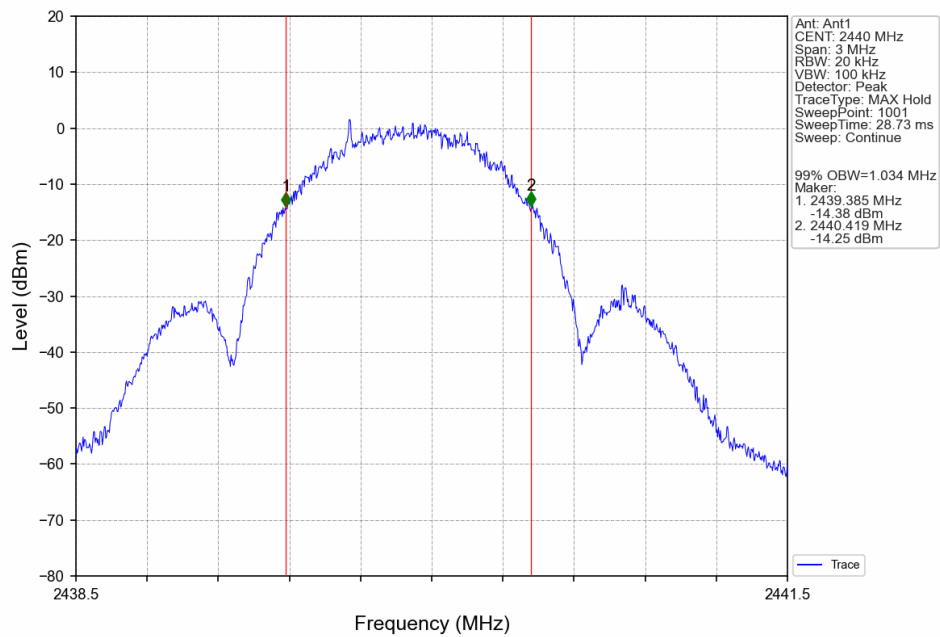
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2.2 Test Graph

2.2.1 OBW

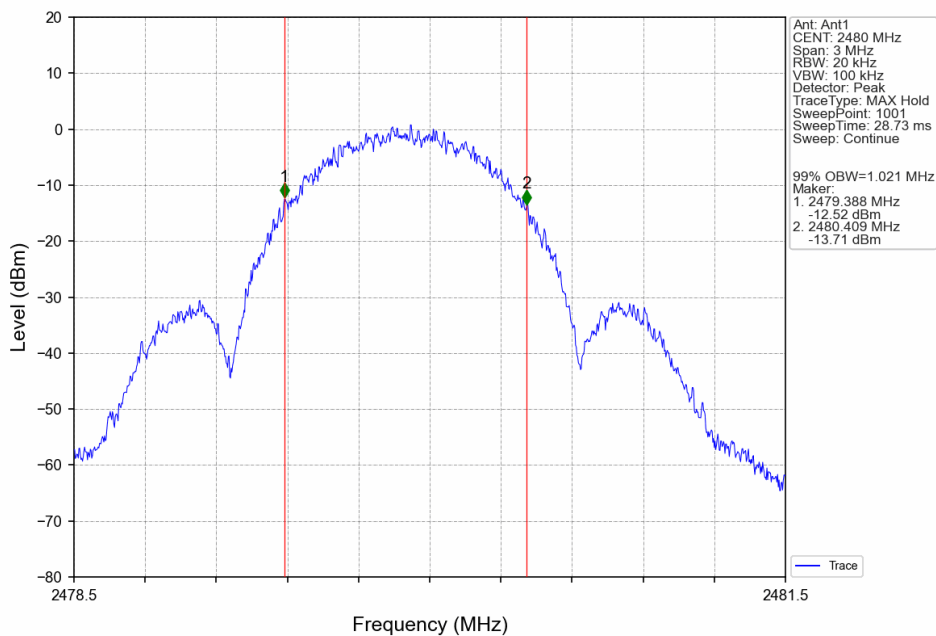


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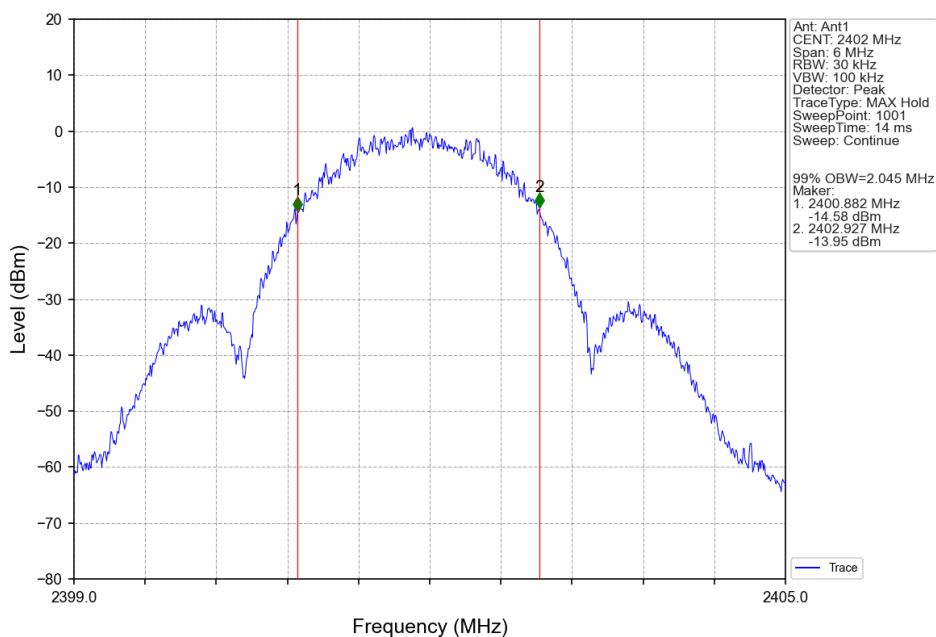


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1M_HCH_2480MHz_Ant1_NTNV

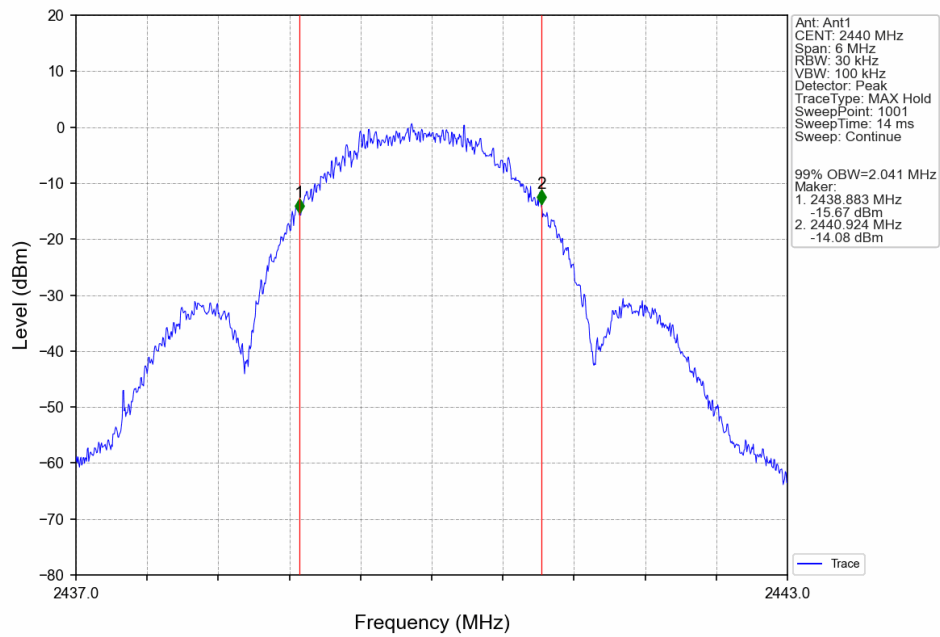


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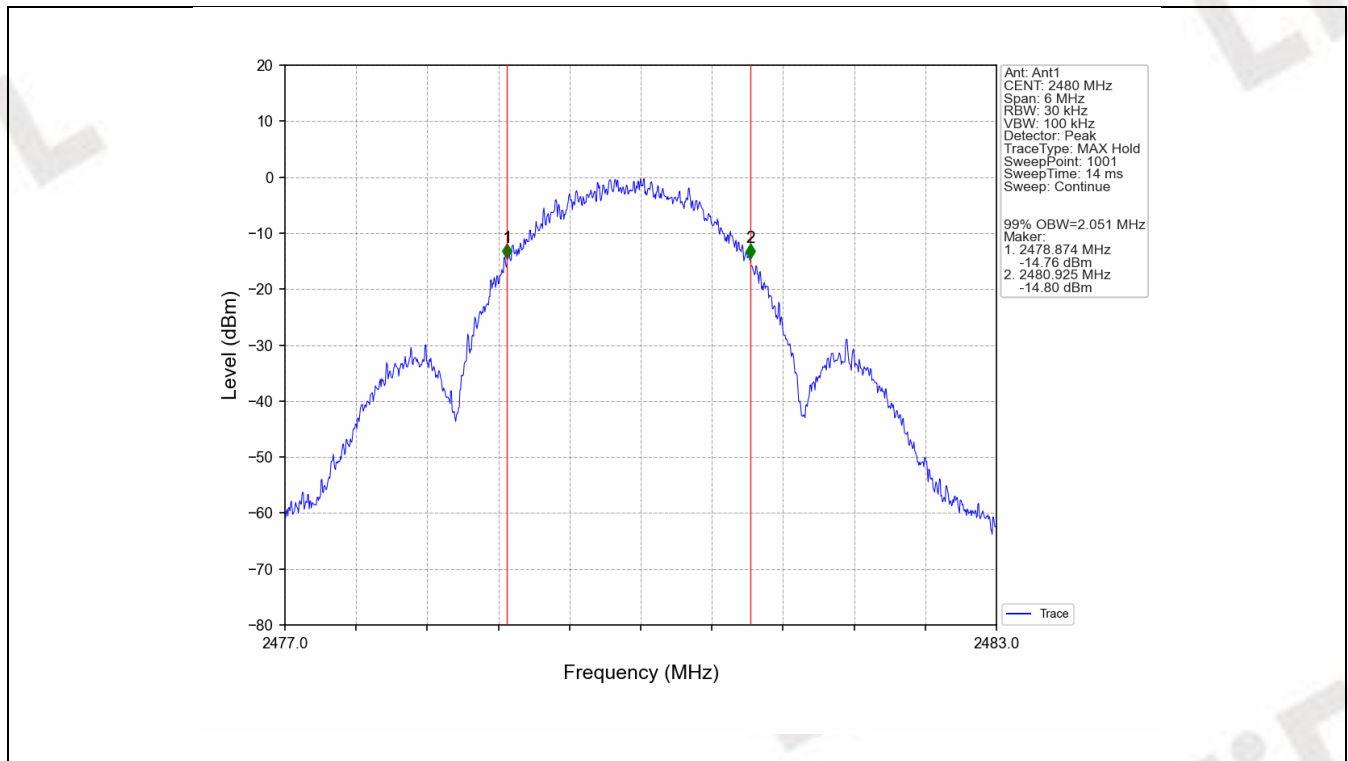
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2M_MCH_2440MHz_Ant1_NTNV

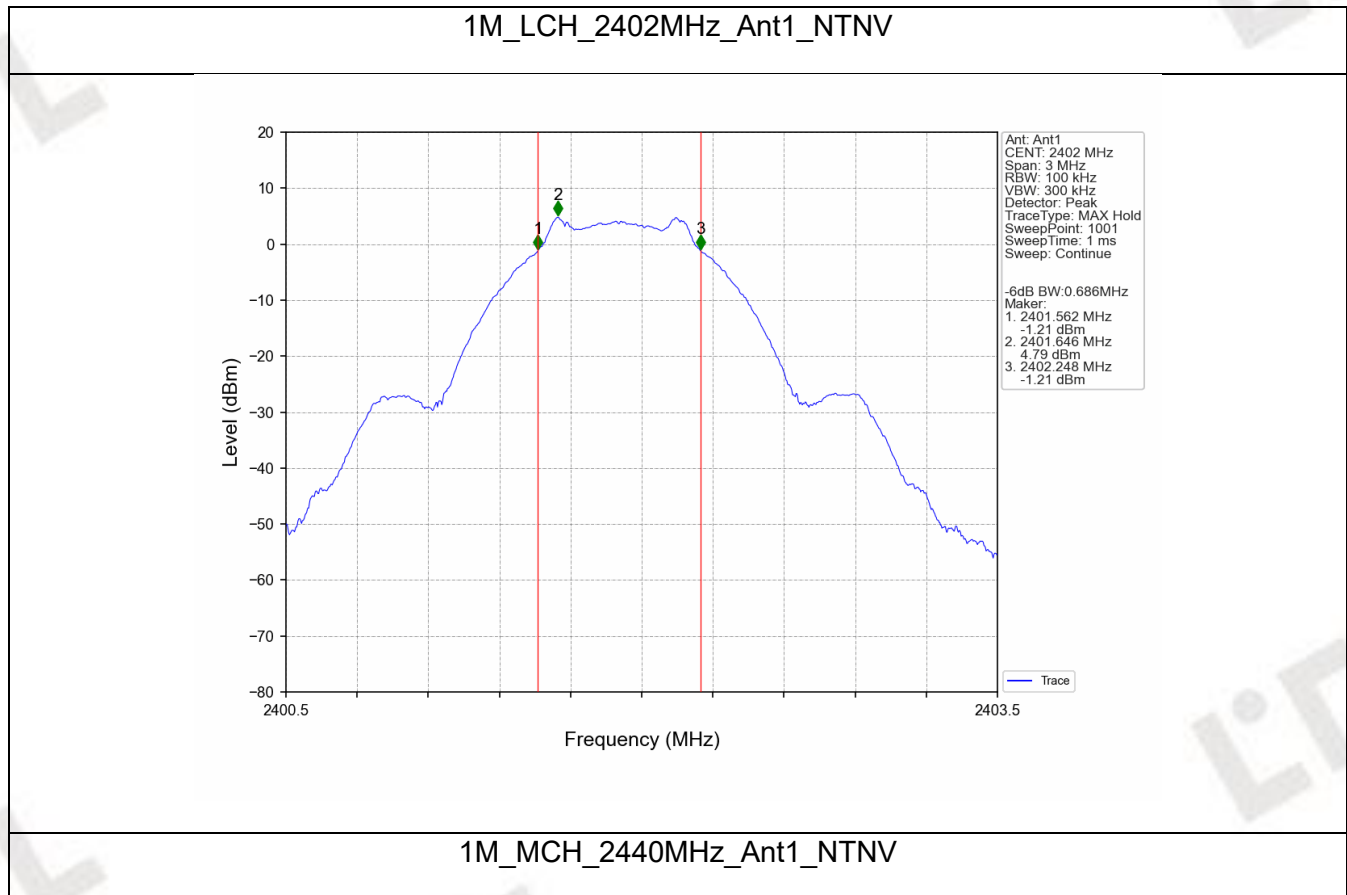


2M_HCH_2480MHz_Ant1_NTNV

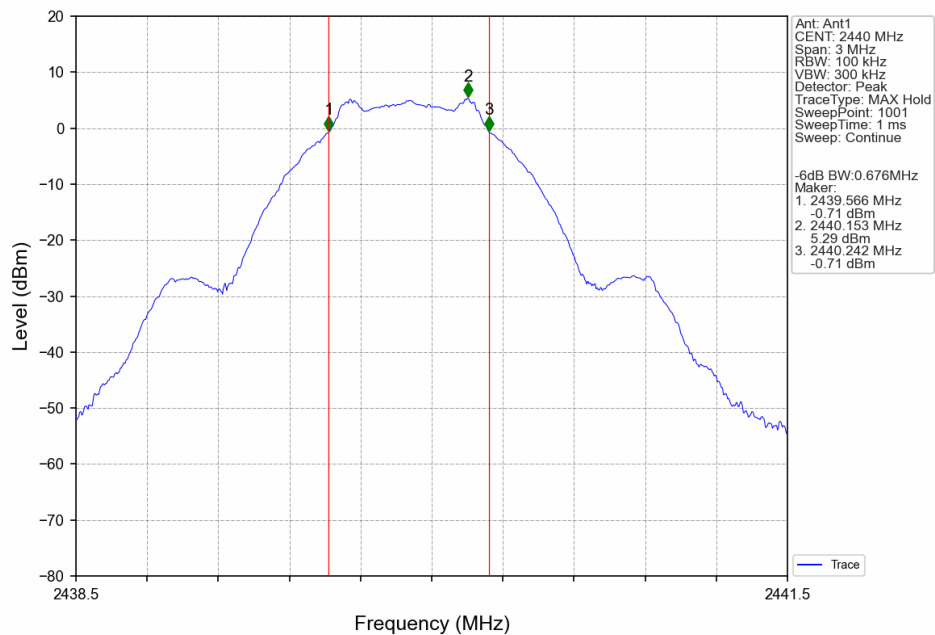
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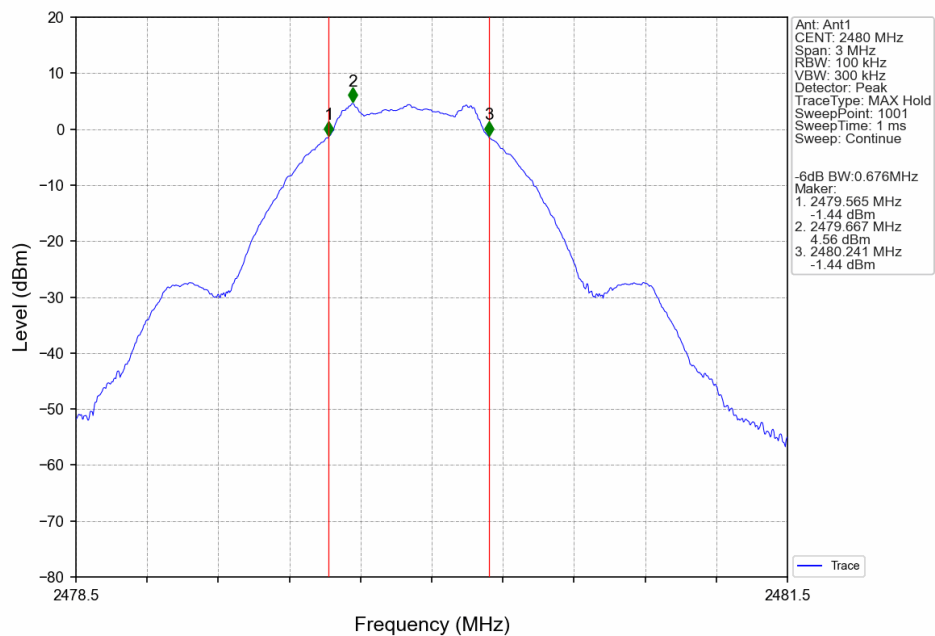
2.2.2 6dB BW

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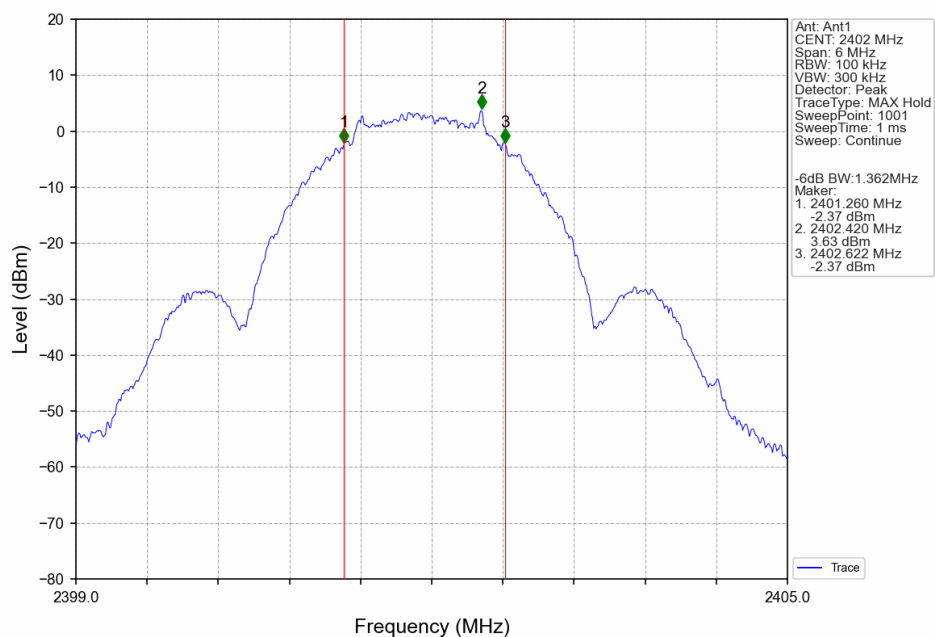


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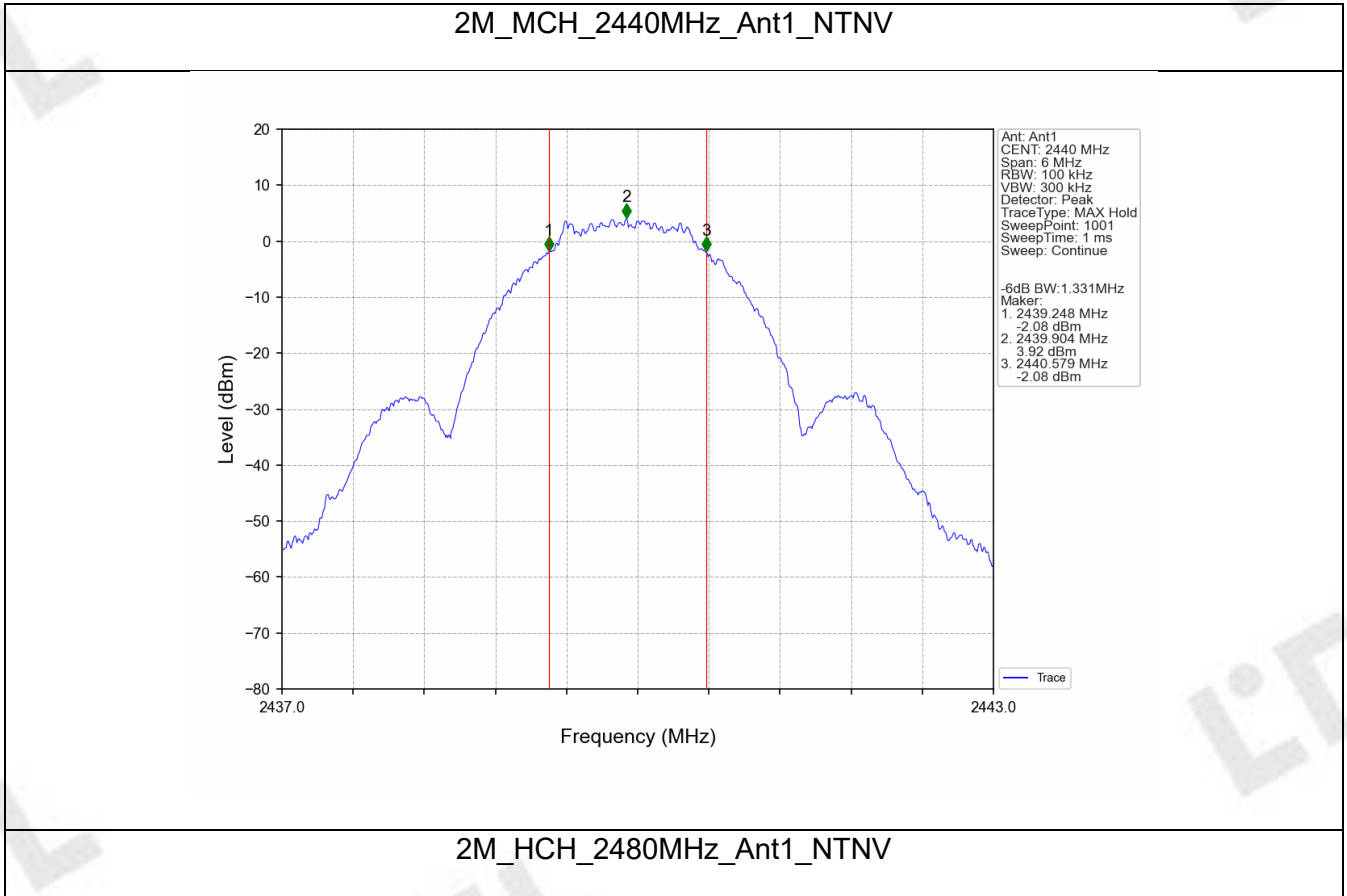
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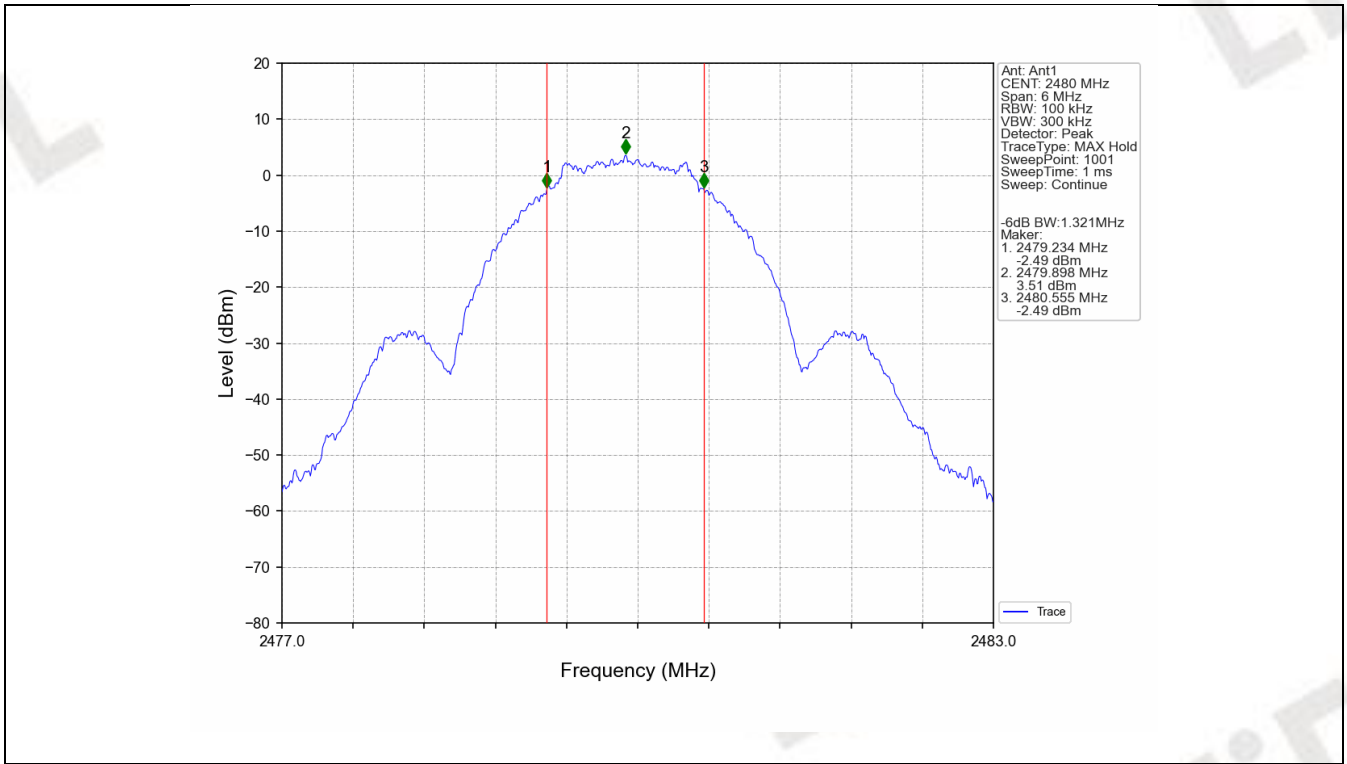
2M_LCH_2402MHz_Ant1_NTNV



FCC ID: 2AYLI-CBXBTRF1022



FCC ID: 2AYLI-CBXBTRF1022



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	5.12	<=30	Pass
		2440	5.62	<=30	Pass
		2480	4.92	<=30	Pass
2M	SISO	2402	5.07	<=30	Pass
		2440	5.61	<=30	Pass
		2480	4.91	<=30	Pass
Note1: Antenna Gain: Ant1: 1.23dBi;					

FCC ID: 2AYLI-CBXBTRF1022

4. Maximum Power Spectral Density

4.1 Test Result

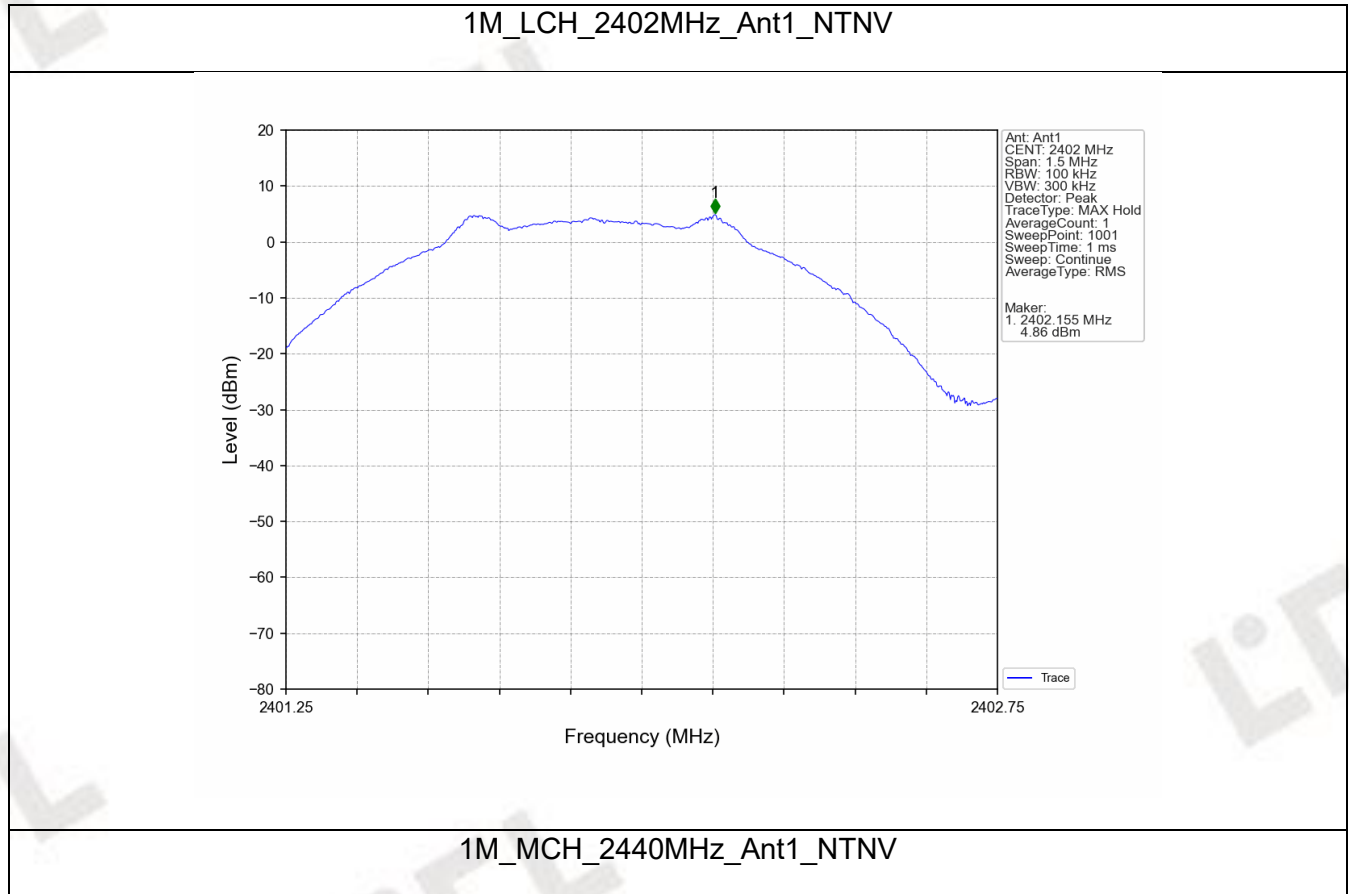
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	4.86dBm/100kHz	<=8	Pass
		2440	5.27dBm/100kHz	<=8	Pass
		2480	4.70dBm/100kHz	<=8	Pass
2M	SISO	2402	3.38dBm/100kHz	<=8	Pass
		2440	3.91dBm/100kHz	<=8	Pass
		2480	4.22dBm/100kHz	<=8	Pass
Note1: Antenna Gain: Ant1: 1.23dBi;					

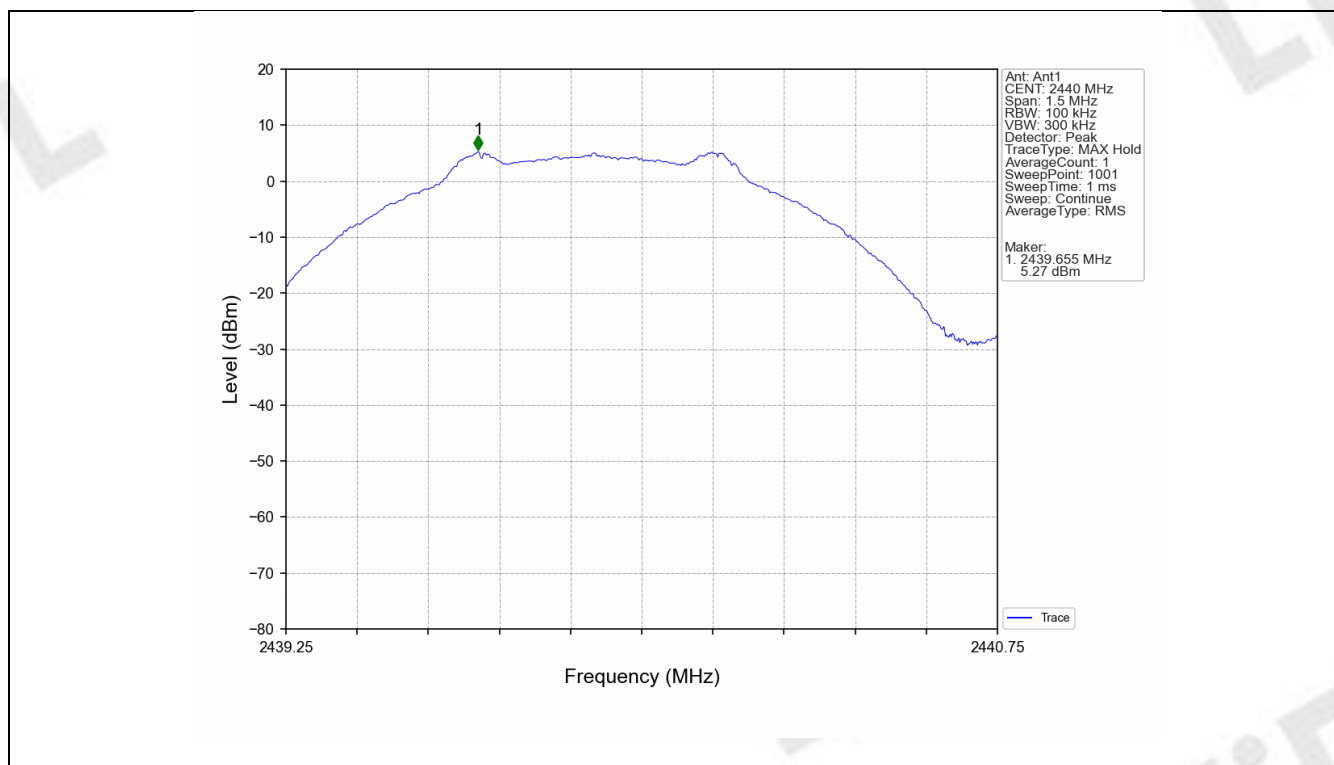
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4.2 Test Graph

4.2.1 PSD

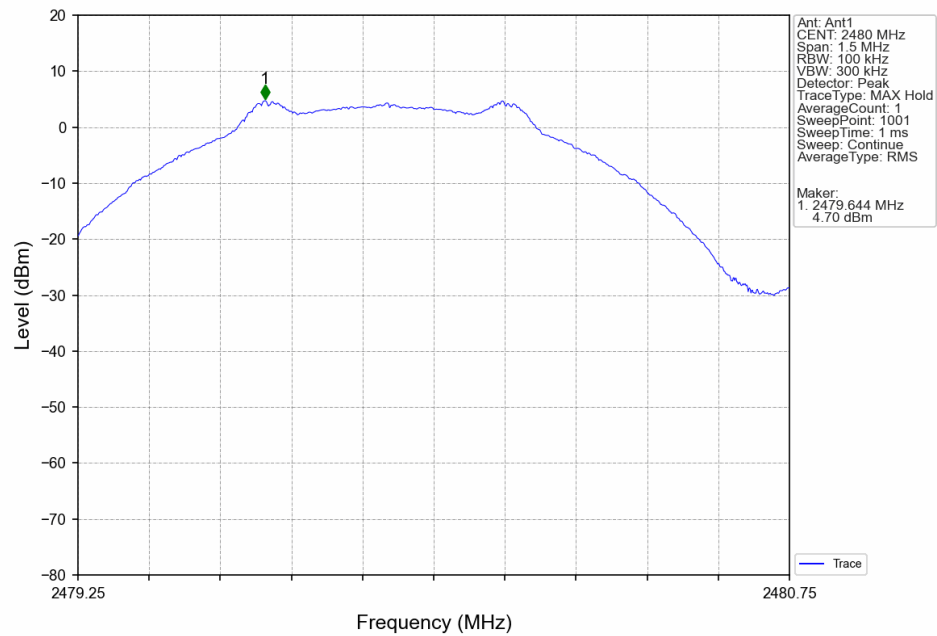


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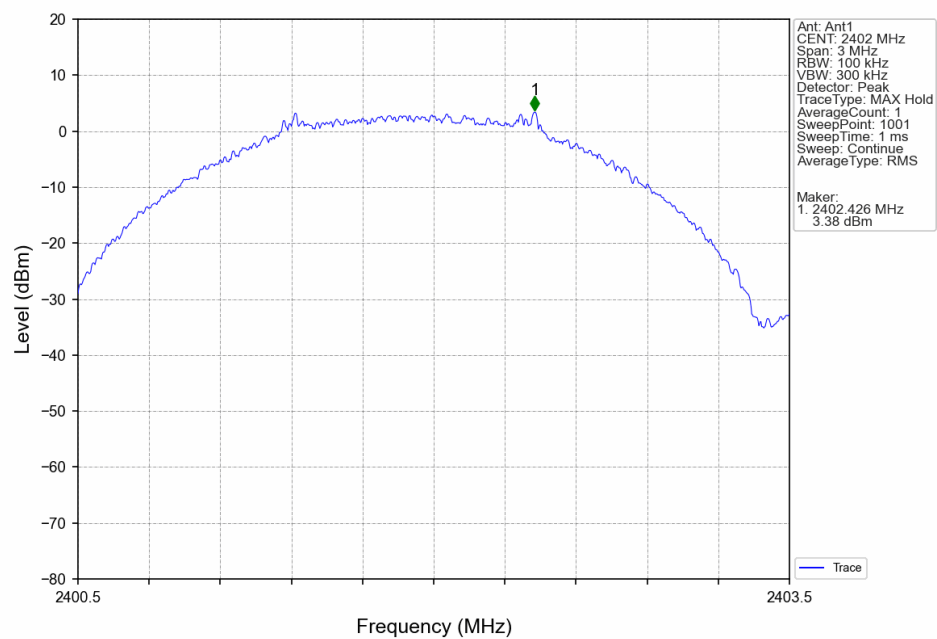


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1M_HCH_2480MHz_Ant1_NTNV

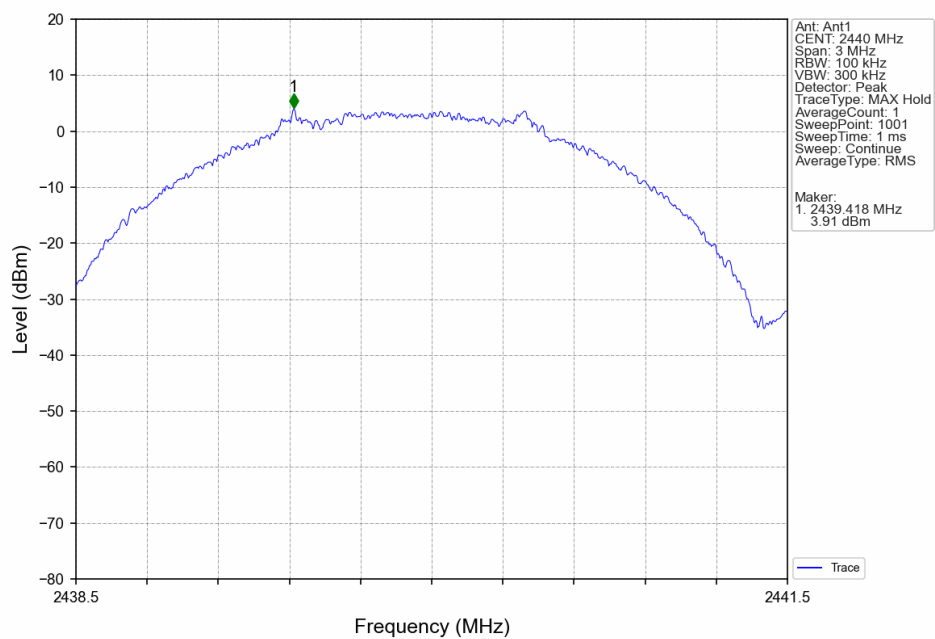


2M_LCH_2402MHz_Ant1_NTNV



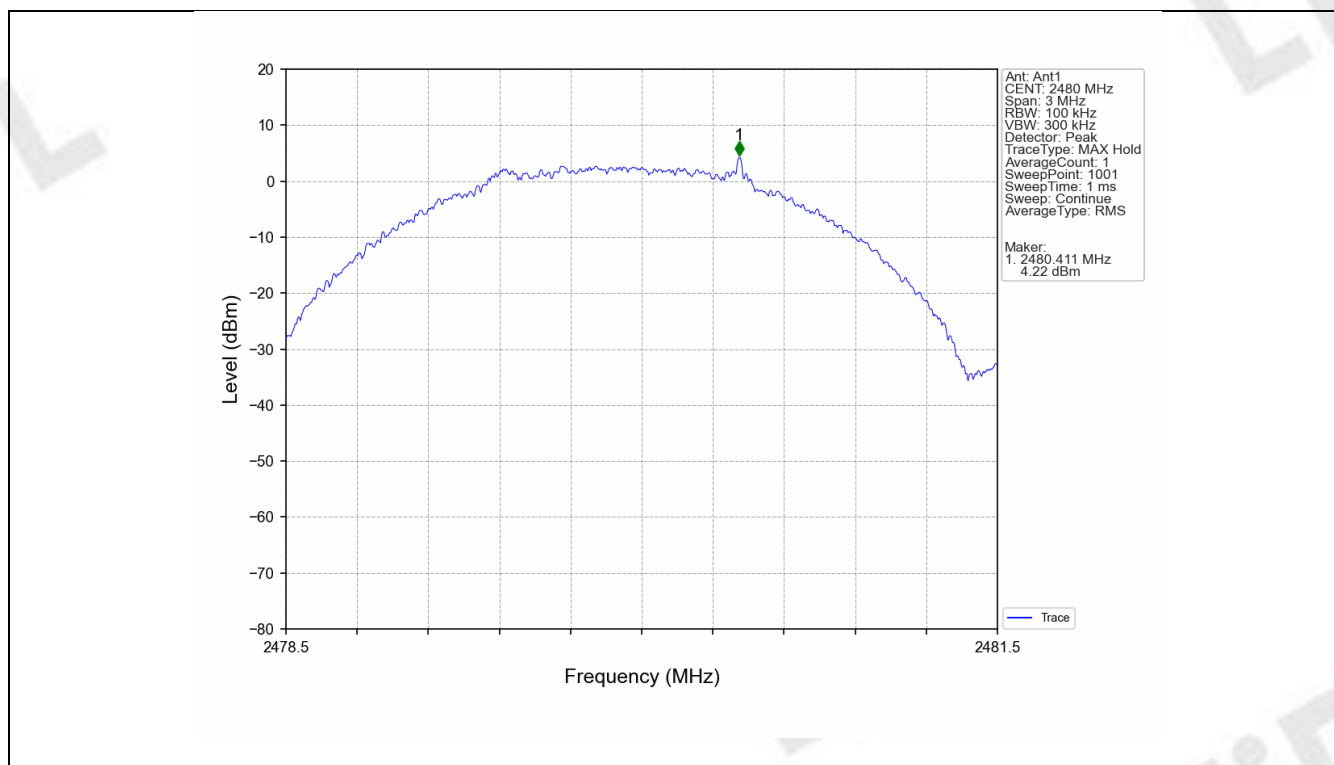
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV

FCC ID: 2AYLI-CBXBTRF1022



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	4.95
		2440	1	5.28
		2480	1	4.60
2M	SISO	2402	1	3.20
		2440	1	3.73
		2480	1	3.14

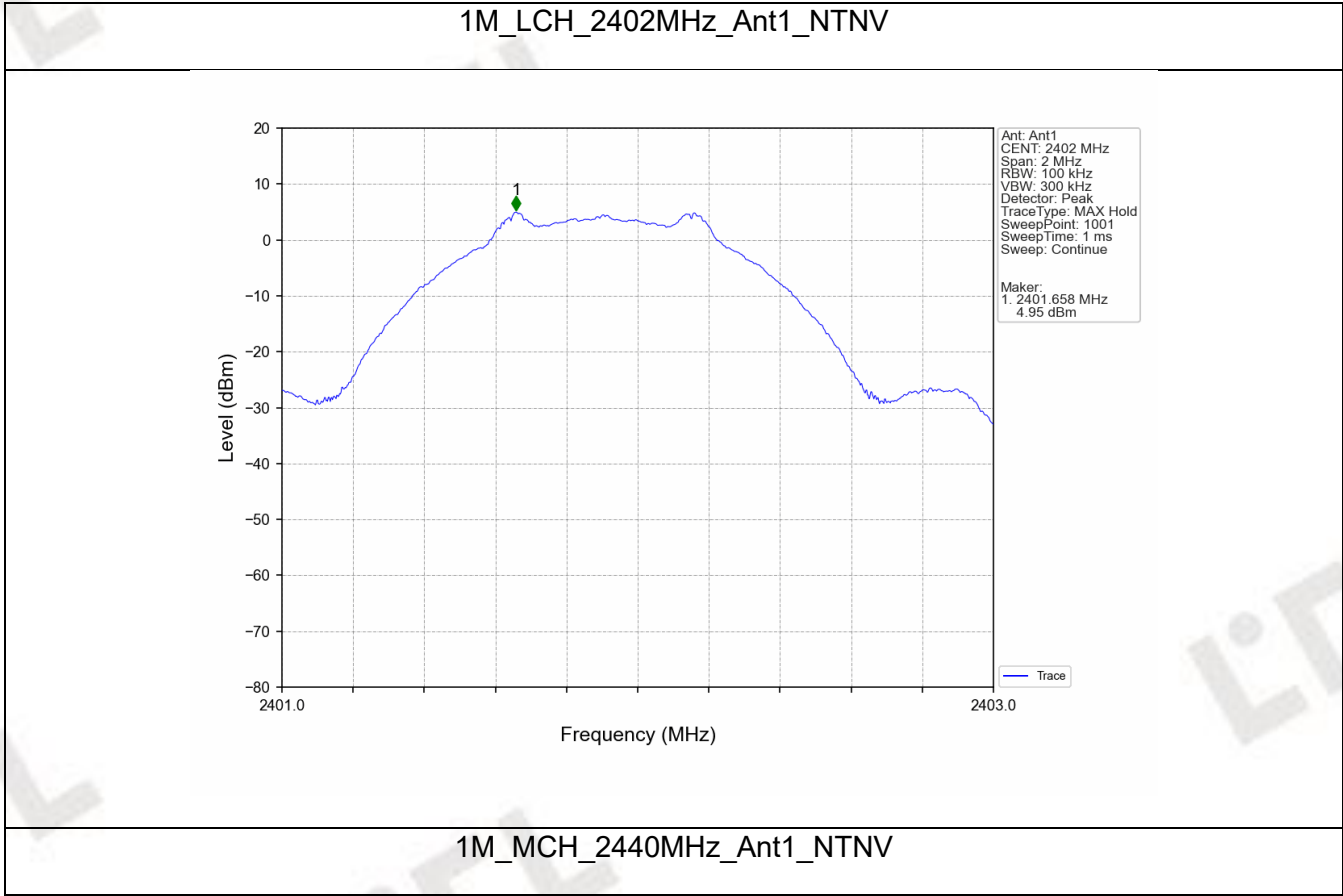
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	4.95	-15.05	Pass
		2440	1	5.28	-14.72	Pass
		2480	1	4.60	-15.40	Pass
2M	SISO	2402	1	3.20	-16.80	Pass
		2440	1	3.73	-16.27	Pass
		2480	1	3.14	-16.86	Pass

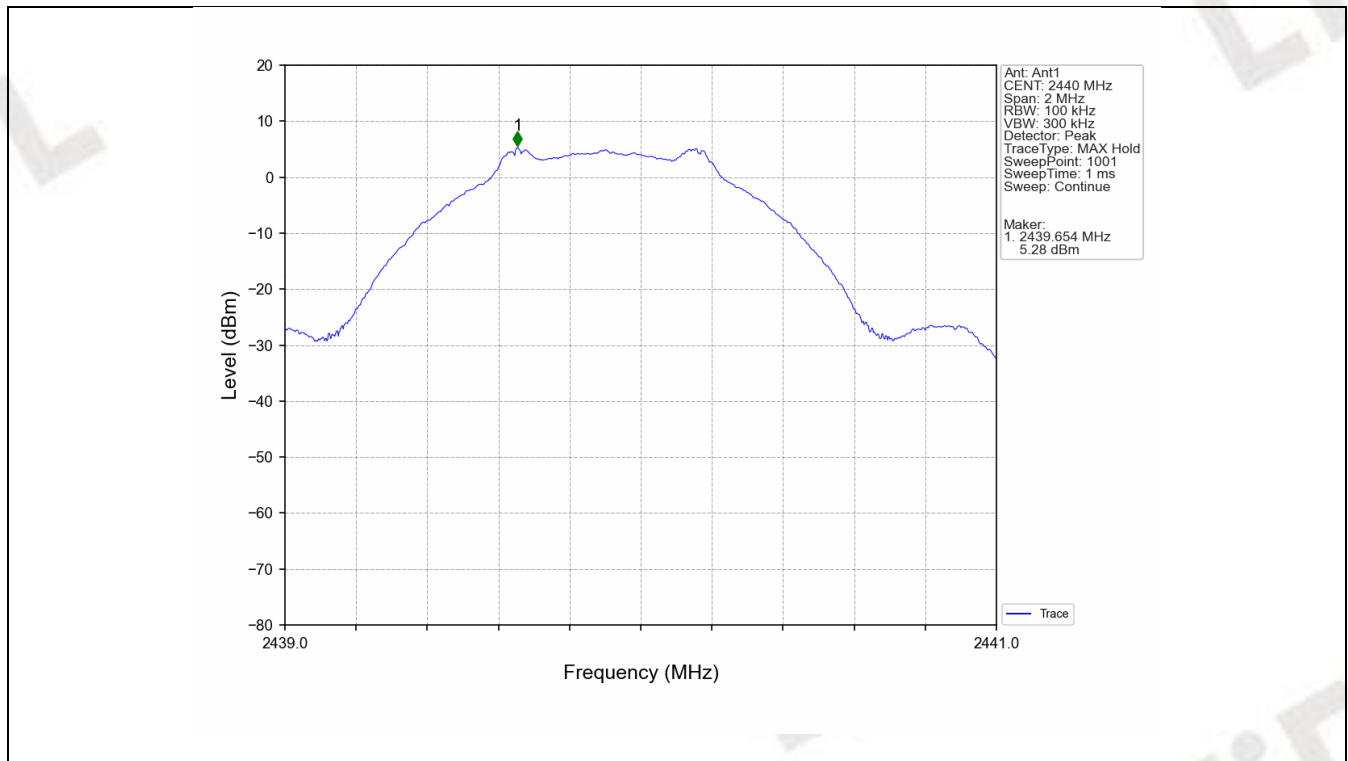
FCC ID: 2AYLI-CBXBTRF1022

5.2 Test Graph

5.2.1 Ref

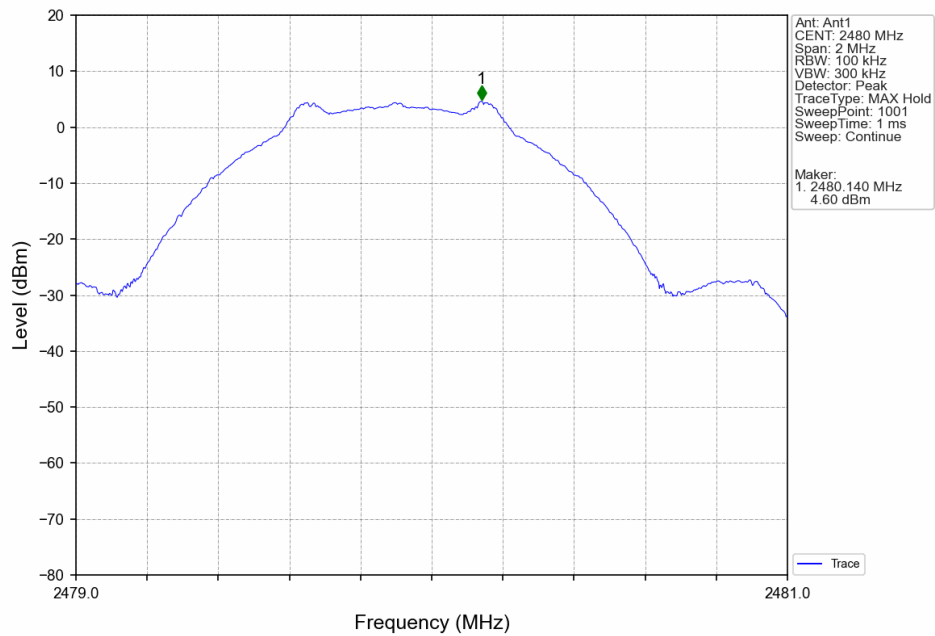


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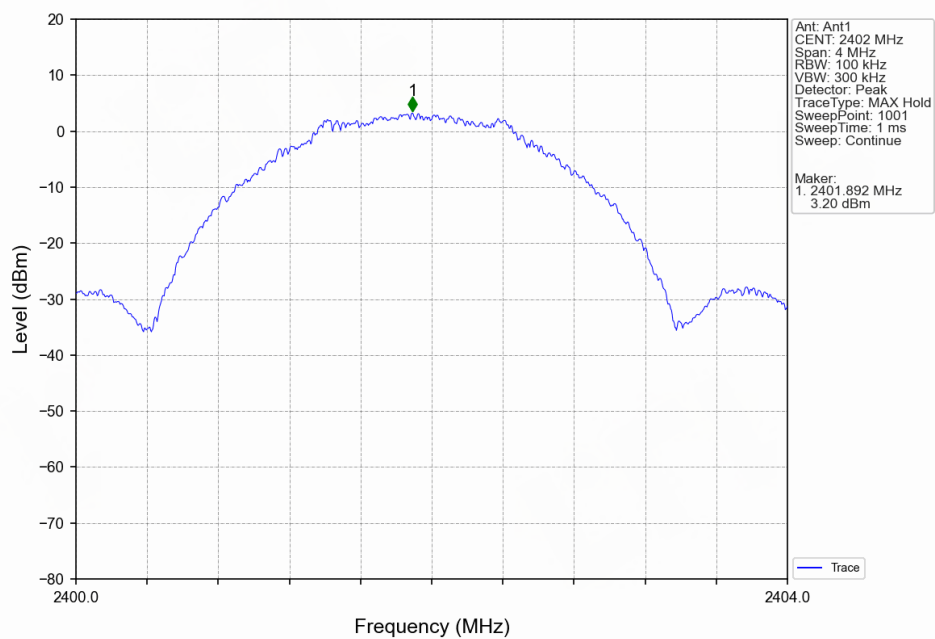


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1M_HCH_2480MHz_Ant1_NTNV

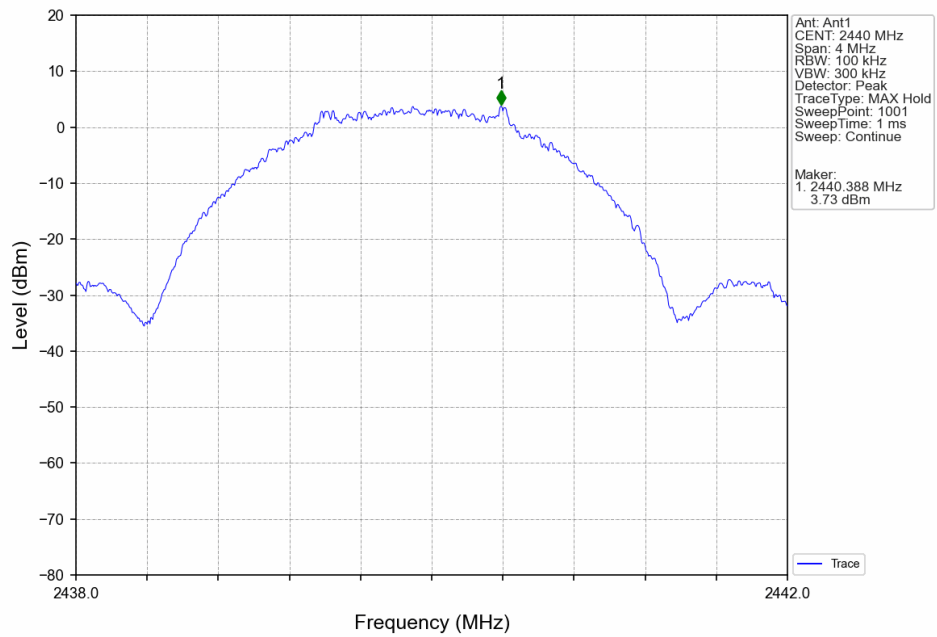


2M_LCH_2402MHz_Ant1_NTNV



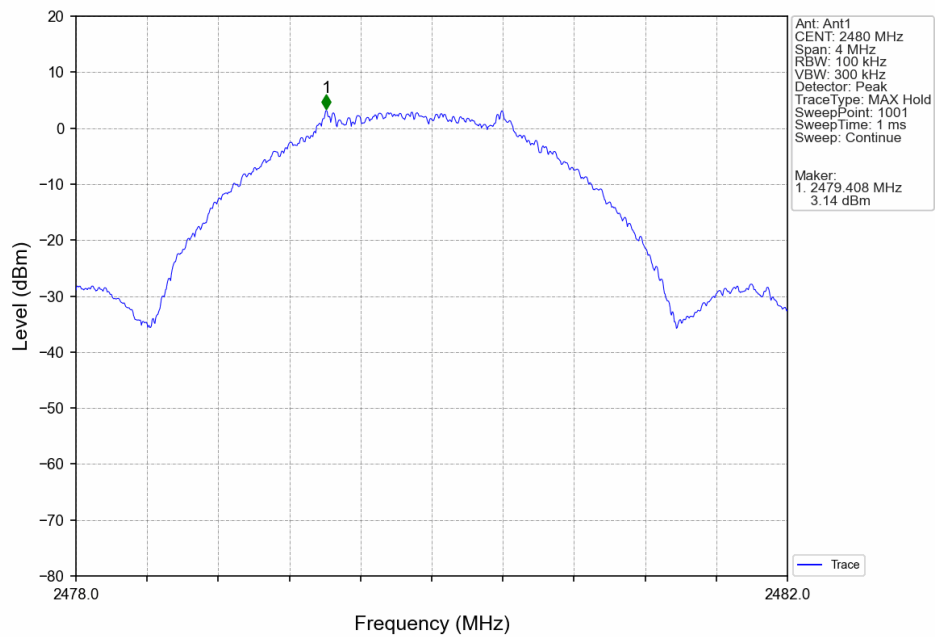
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2M_MCH_2440MHz_Ant1_NTNV



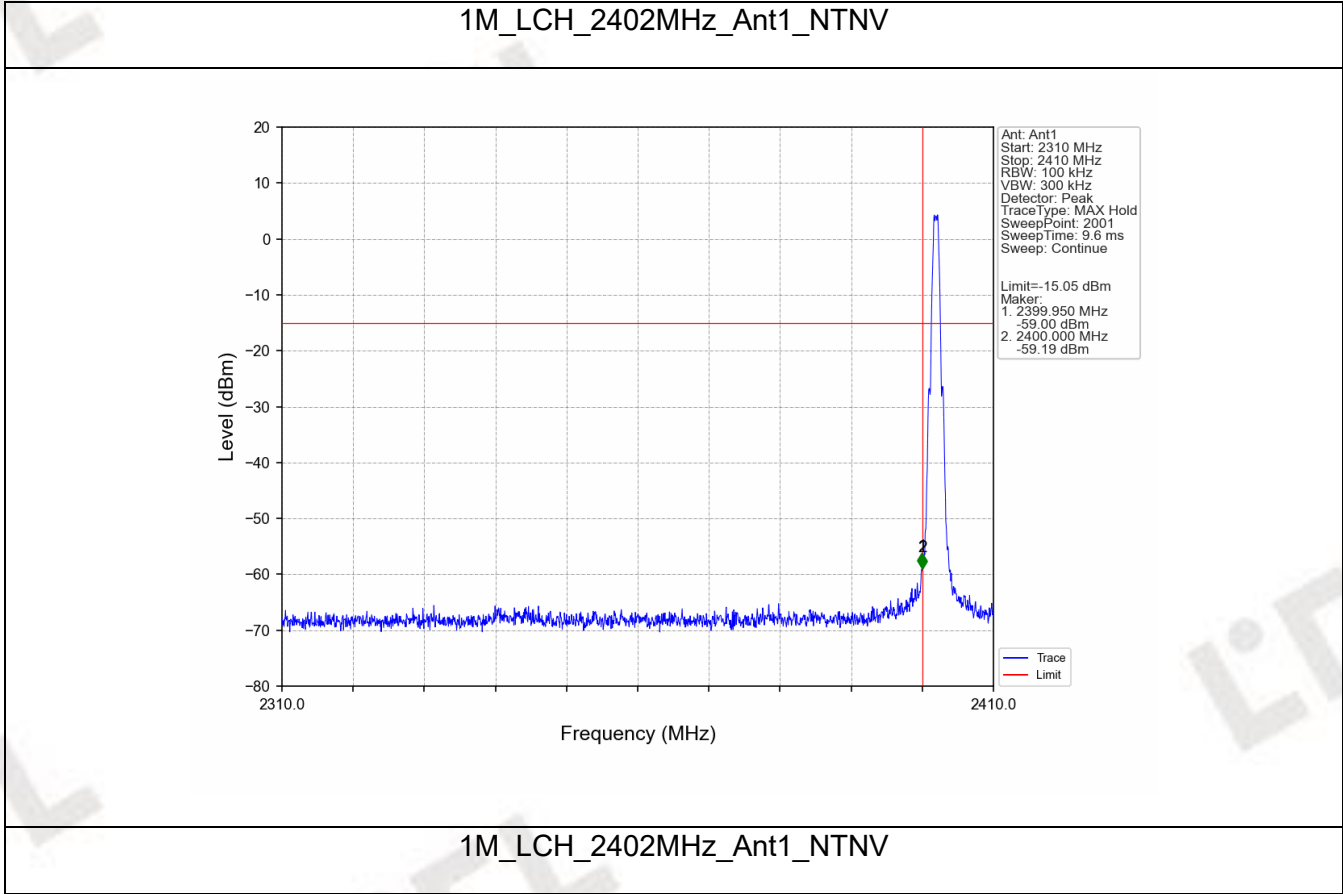
2M_HCH_2480MHz_Ant1_NTNV

FCC ID: 2AYLI-CBXBTRF1022

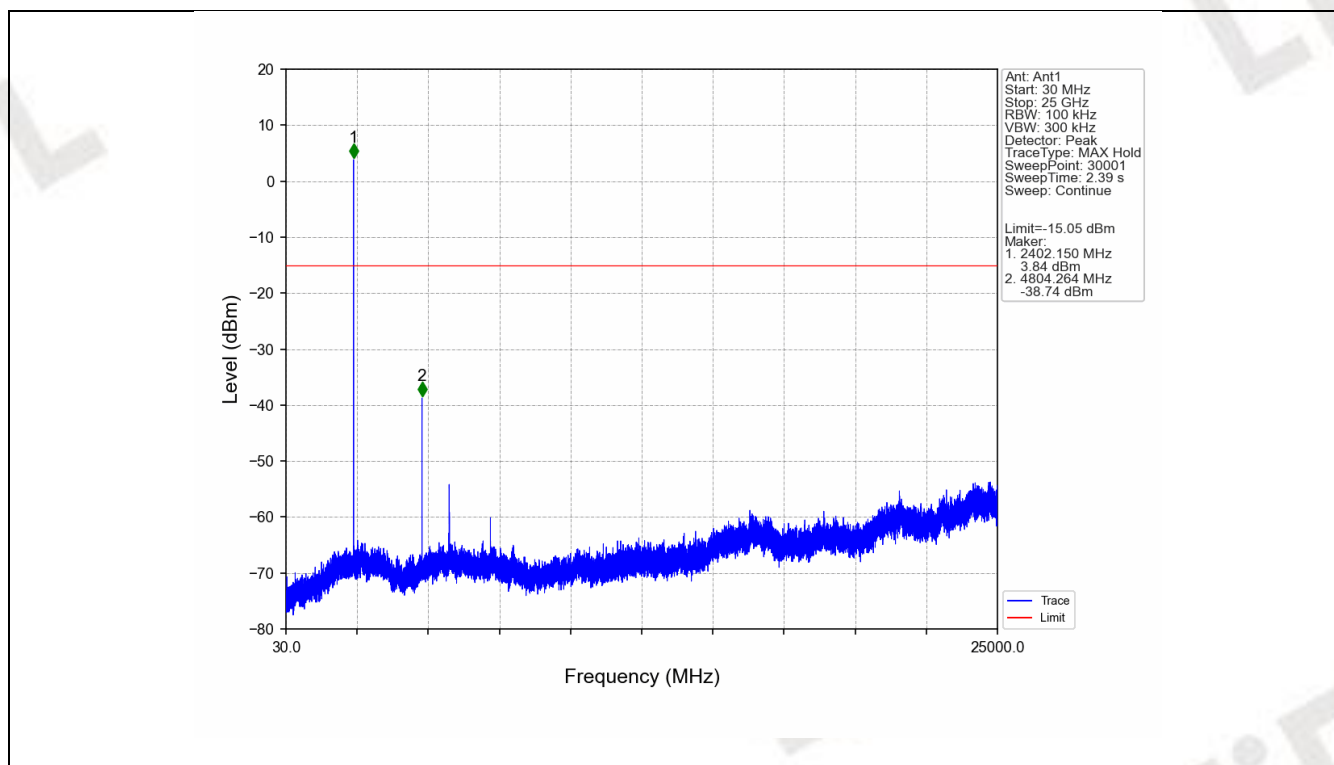


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5.2.2 CSE

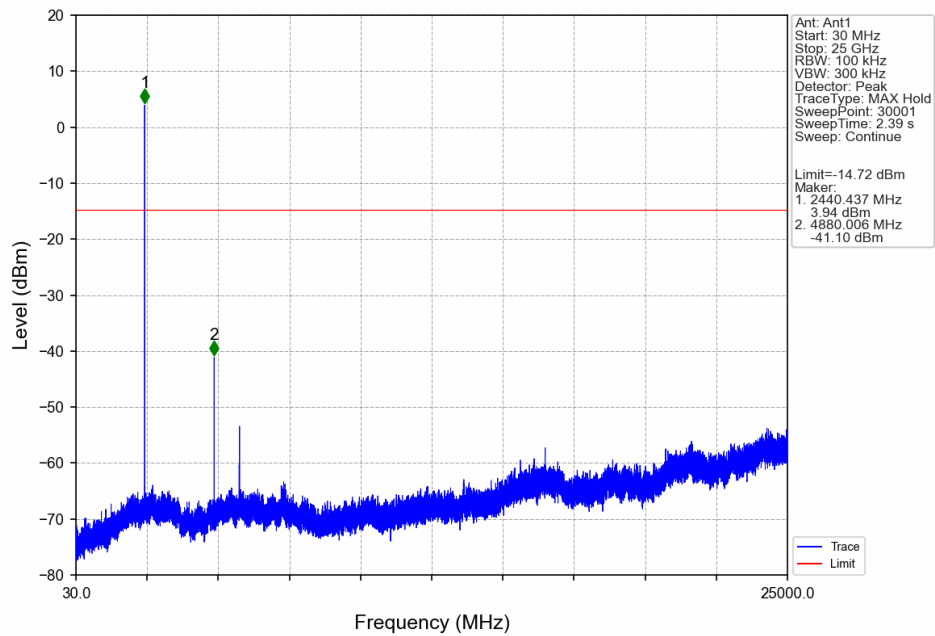


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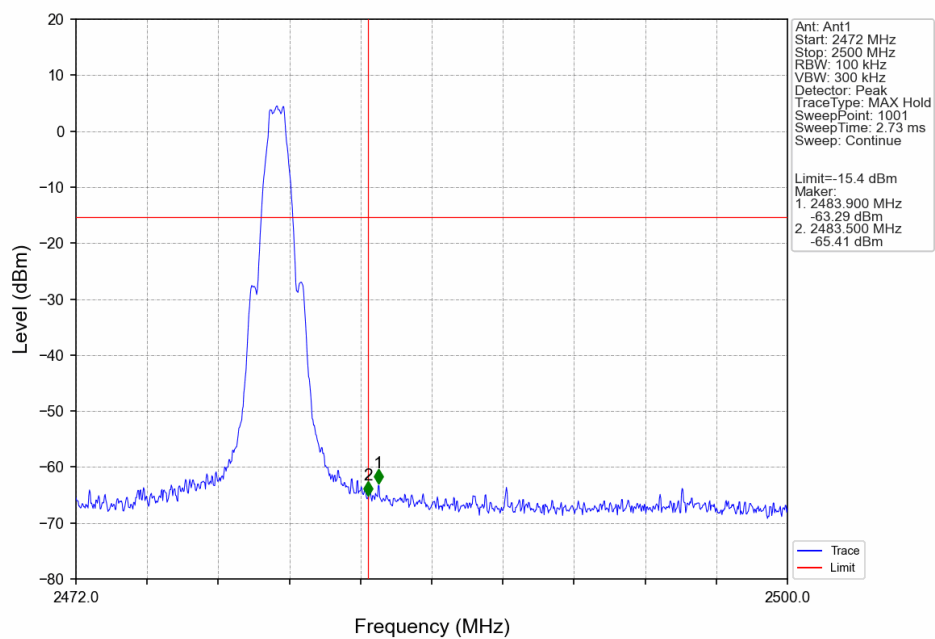


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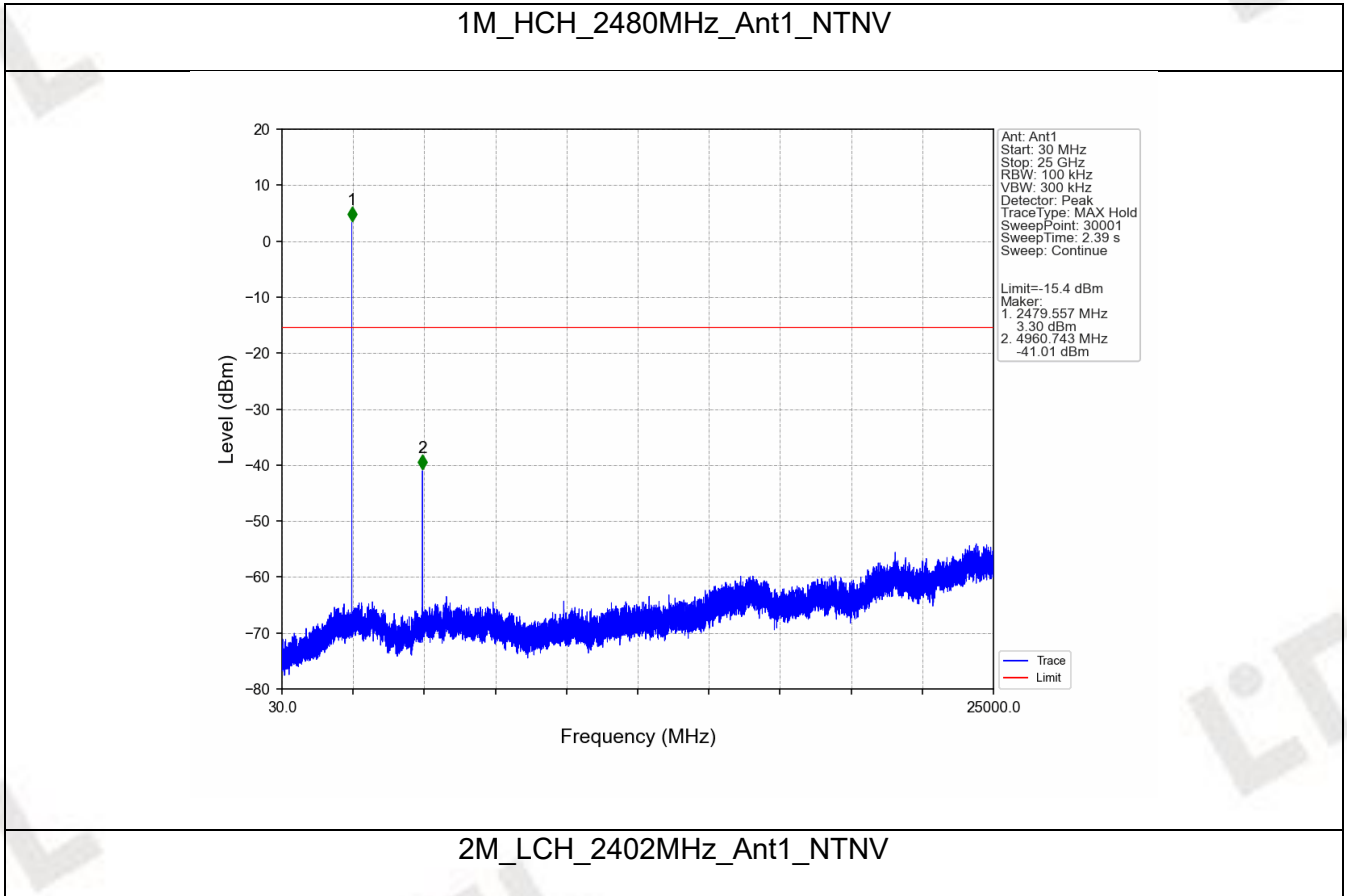
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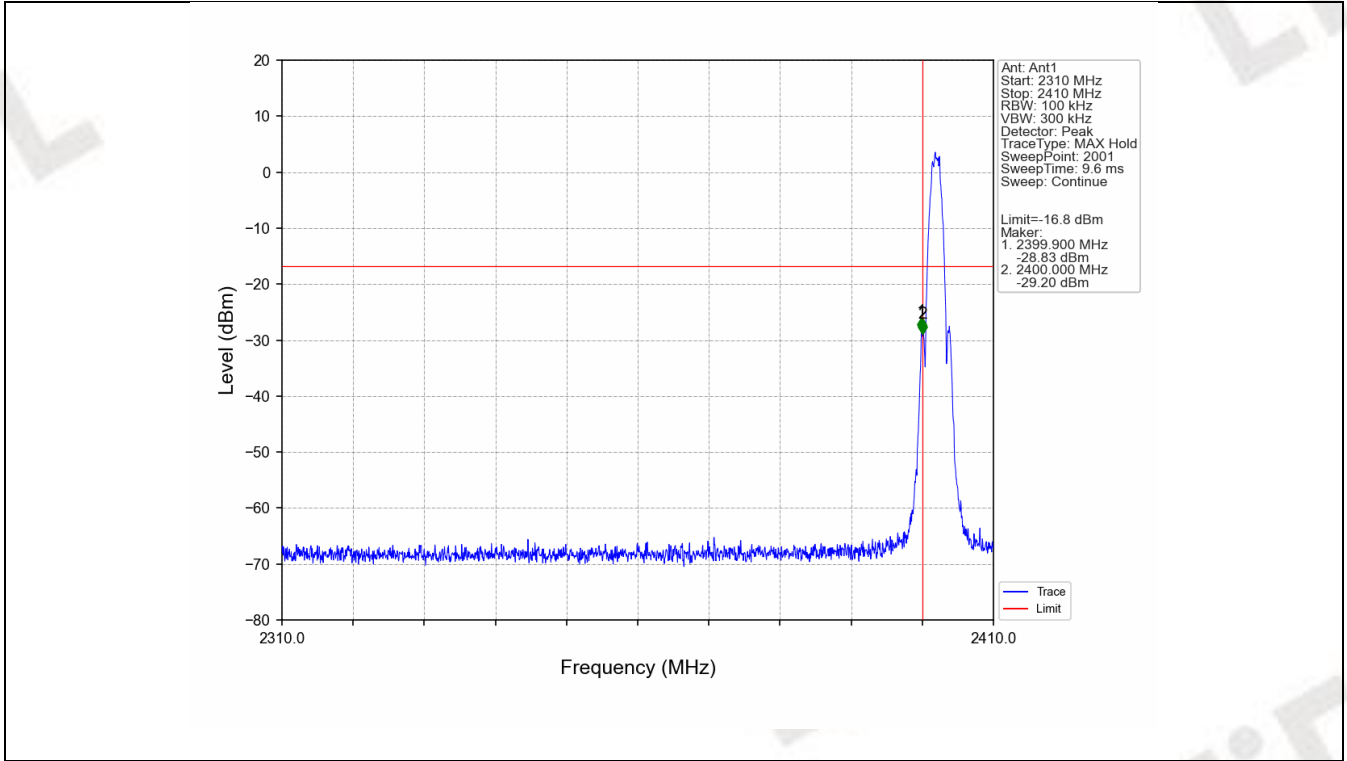
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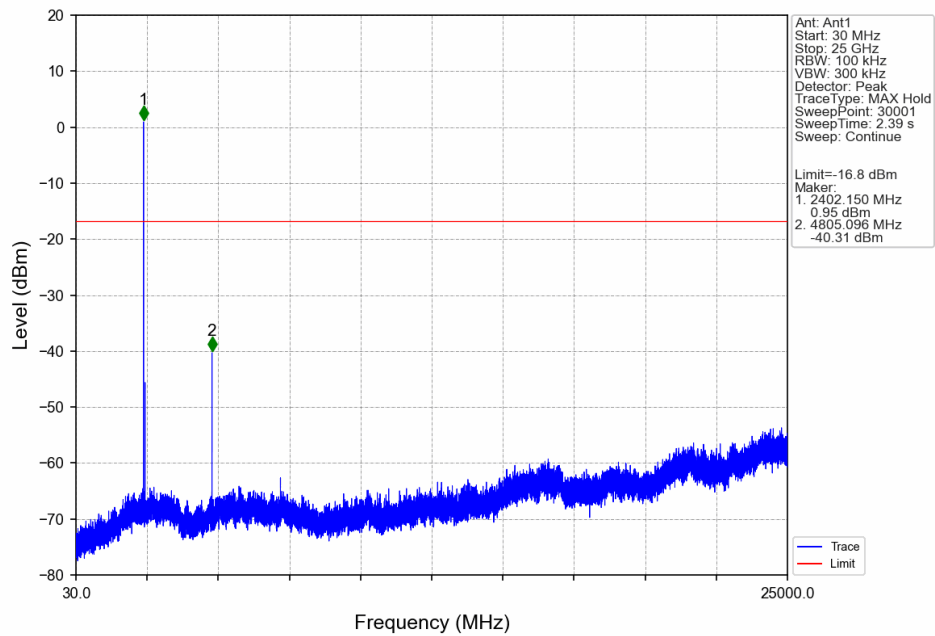


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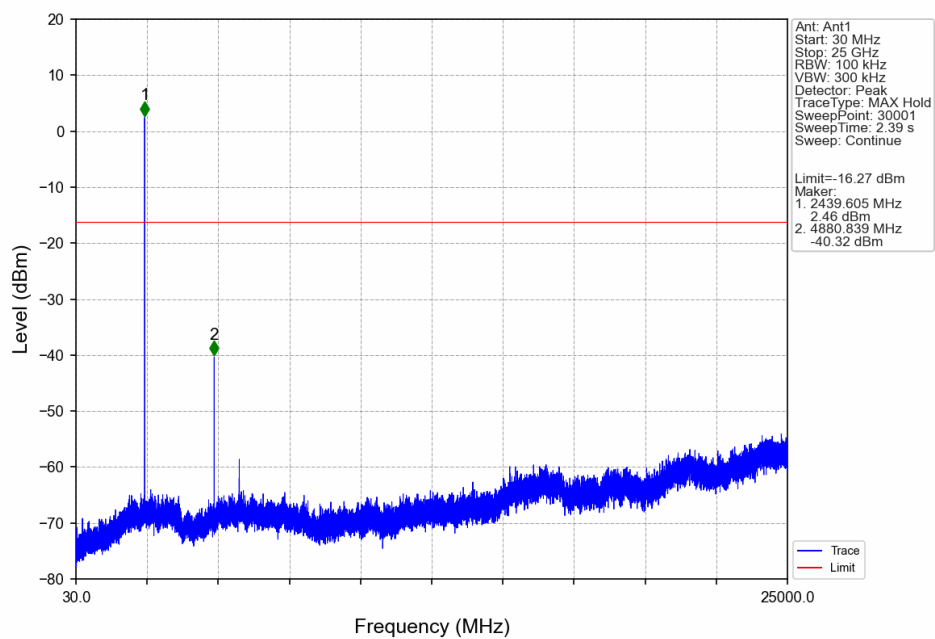


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2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



FCC ID: 2AYLI-CBXBTRF1022

