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Annex for Bluetooth Low Energy

Test Report No.: CTL2605098027-WF03

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FCC ID: 2ACH3-GPRGBSBAR

1. Duty Cycle

1.1 Test Result

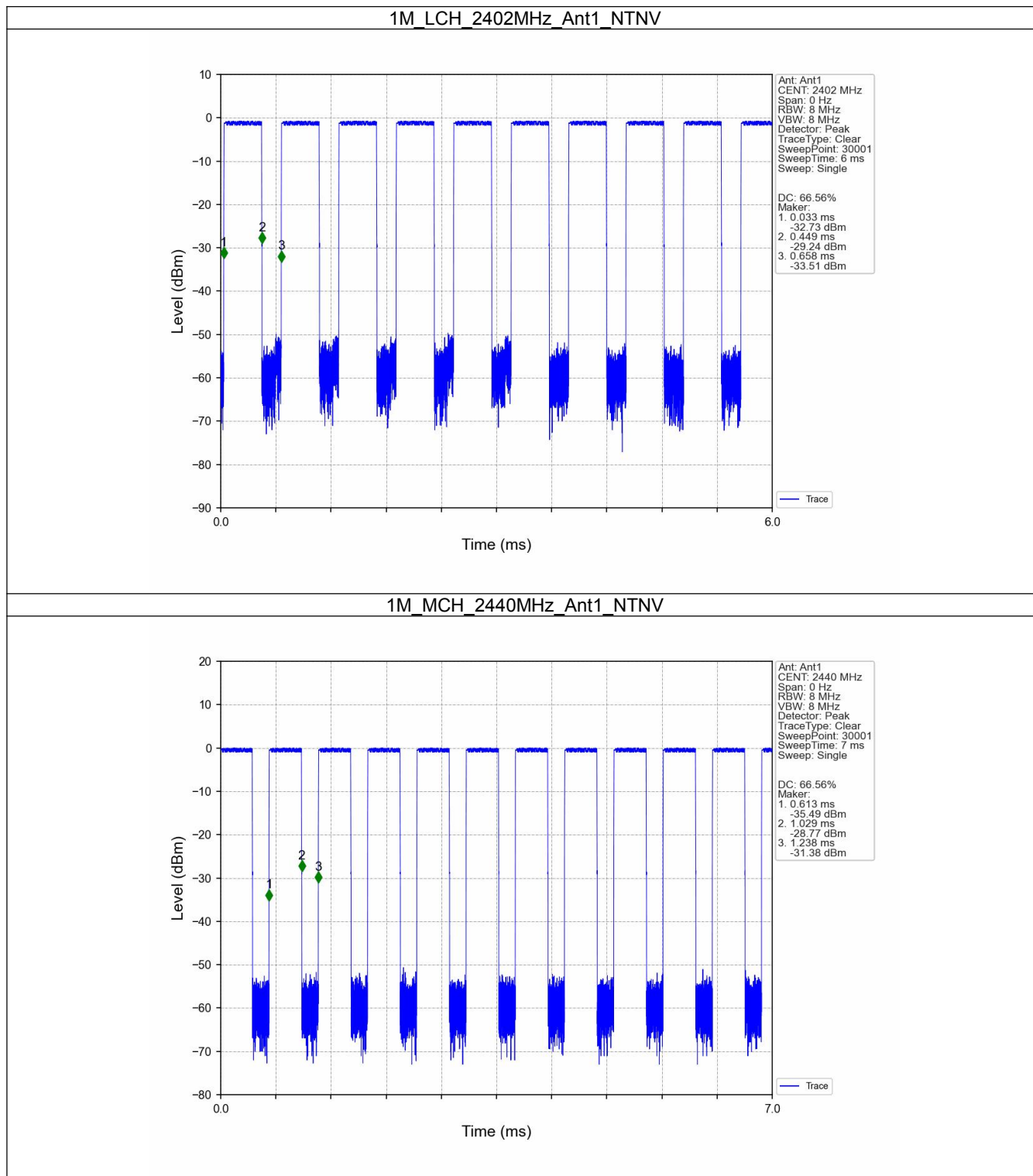
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.416	0.625	66.56	1.77	0.03
		2440	0.416	0.625	66.56	1.77	0.04
		2480	0.416	0.625	66.56	1.77	0.00

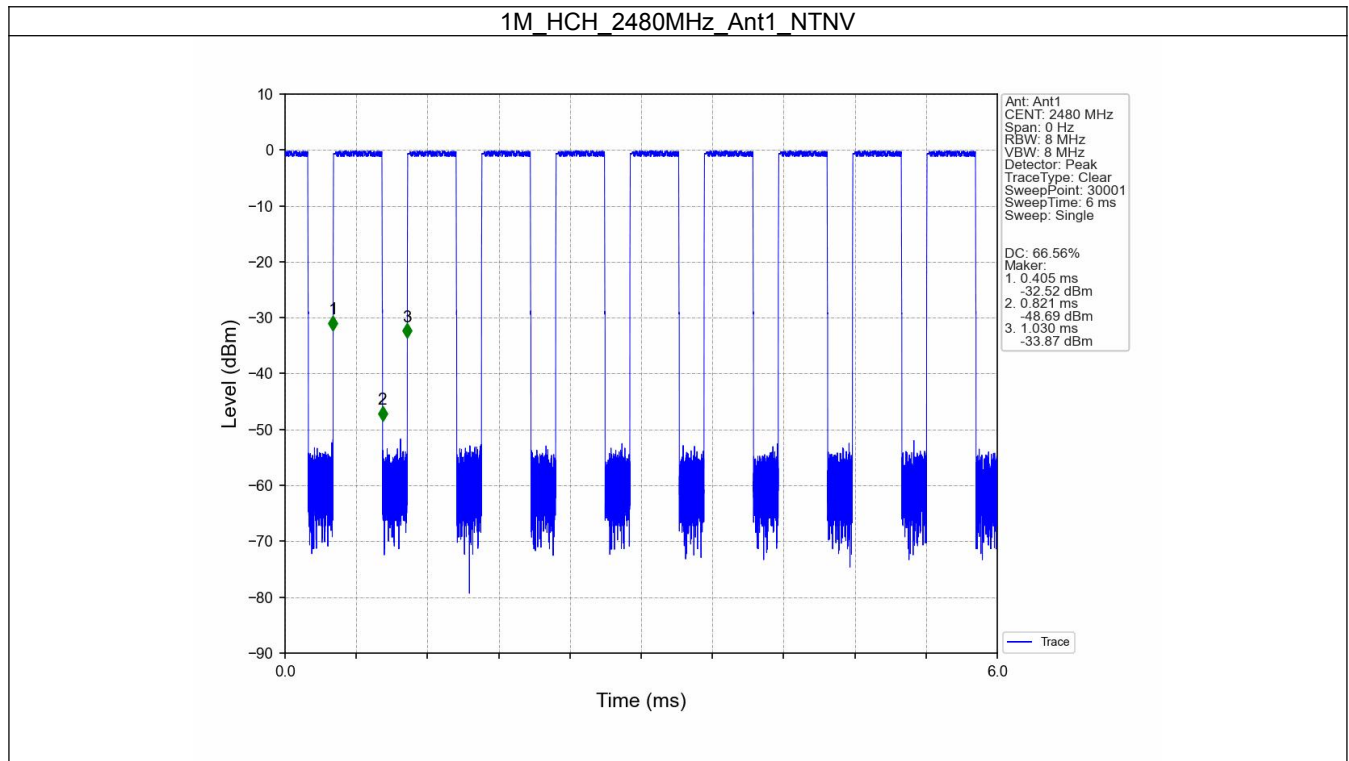
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1.2 Test Graph

1.2.1 Ant1



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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	0.875	/	Pass
		2440	1	0.873	/	Pass
		2480	1	0.873	/	Pass

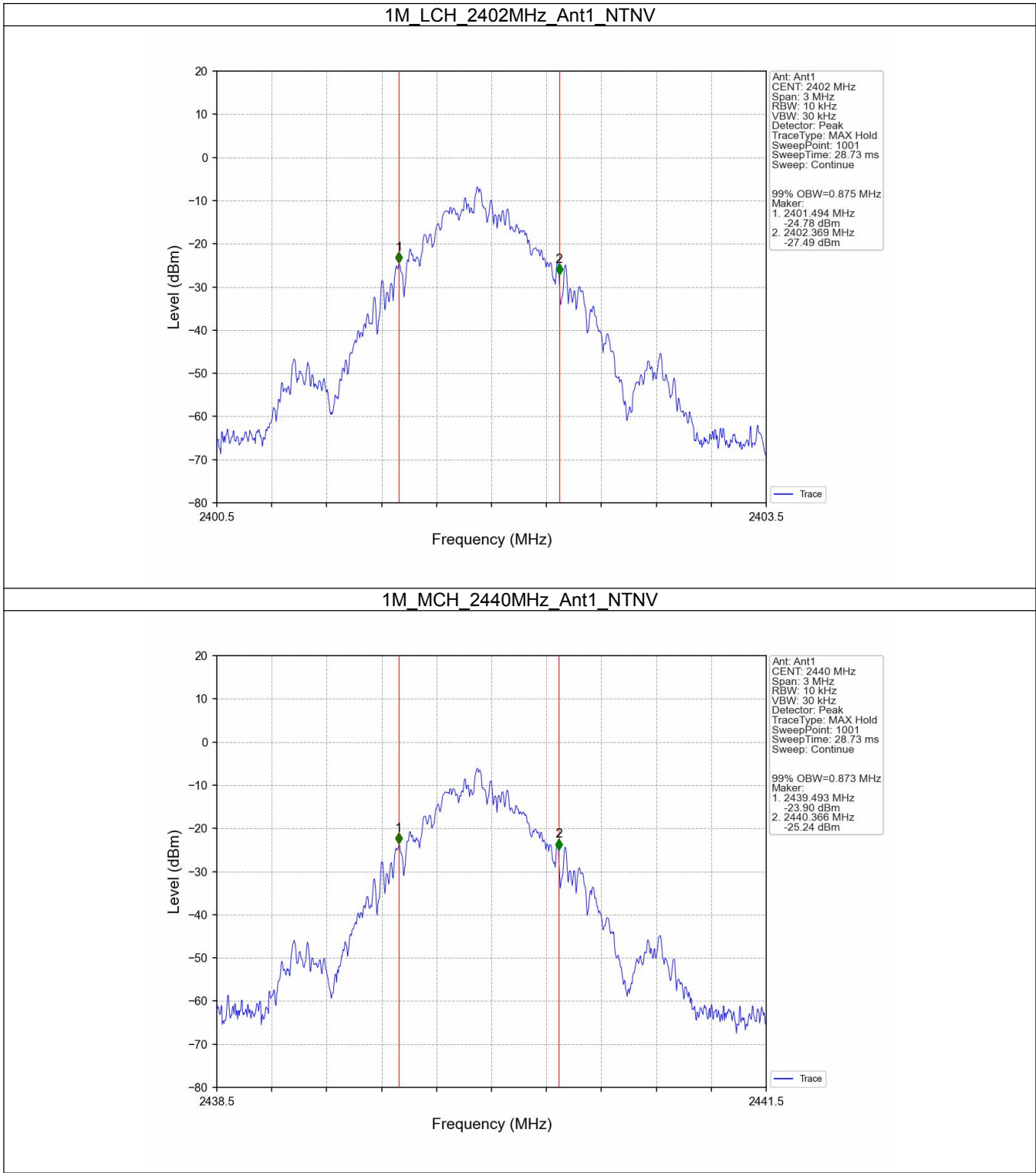
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.516	≥ 0.5	Pass
		2440	1	0.518	≥ 0.5	Pass
		2480	1	0.518	≥ 0.5	Pass

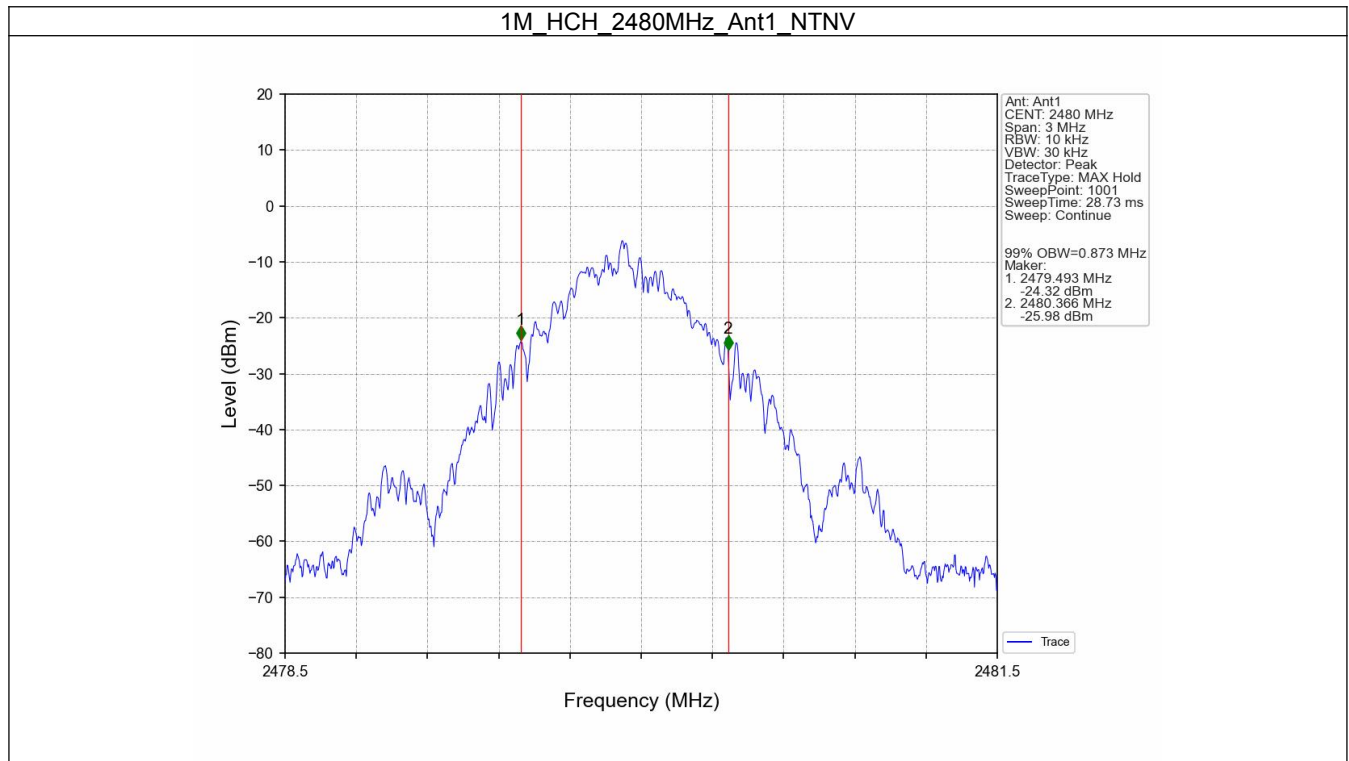
FCC ID: 2ACH3-GPRGBSBAR

2.2 Test Graph

2.2.1 OBW

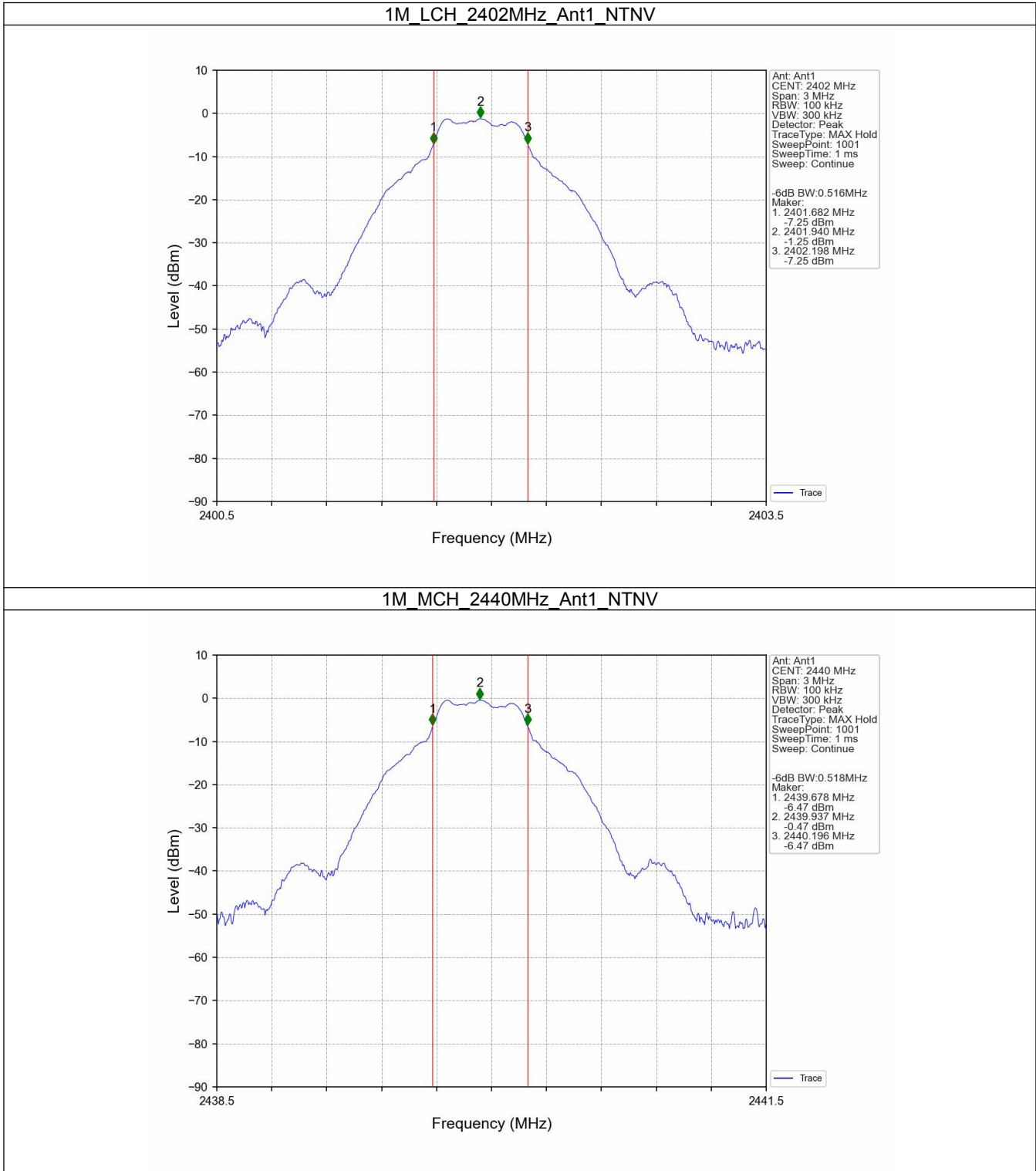


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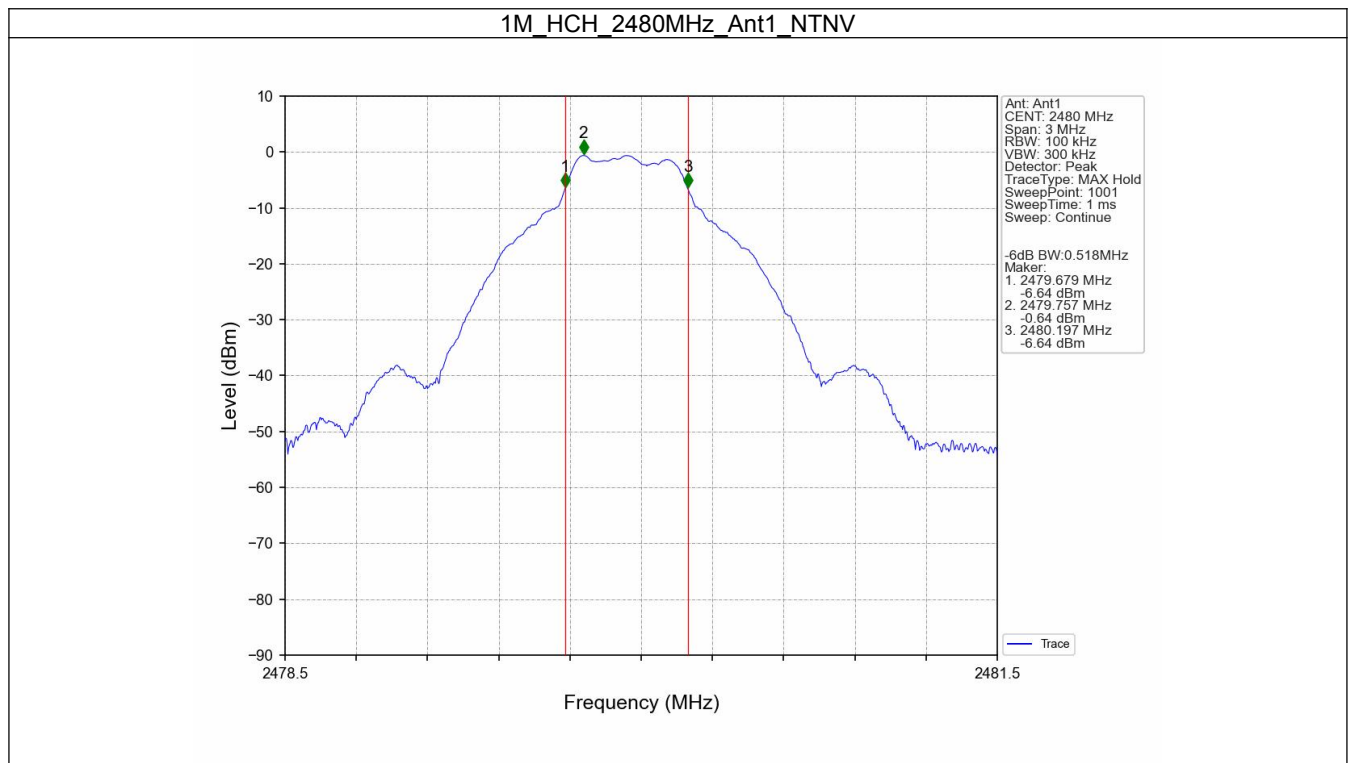


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2.2.2 6dB BW



FCC ID: 2ACH3-GPRGBSBAR



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3. Maximum Conducted Output Power

3.1 Test Result

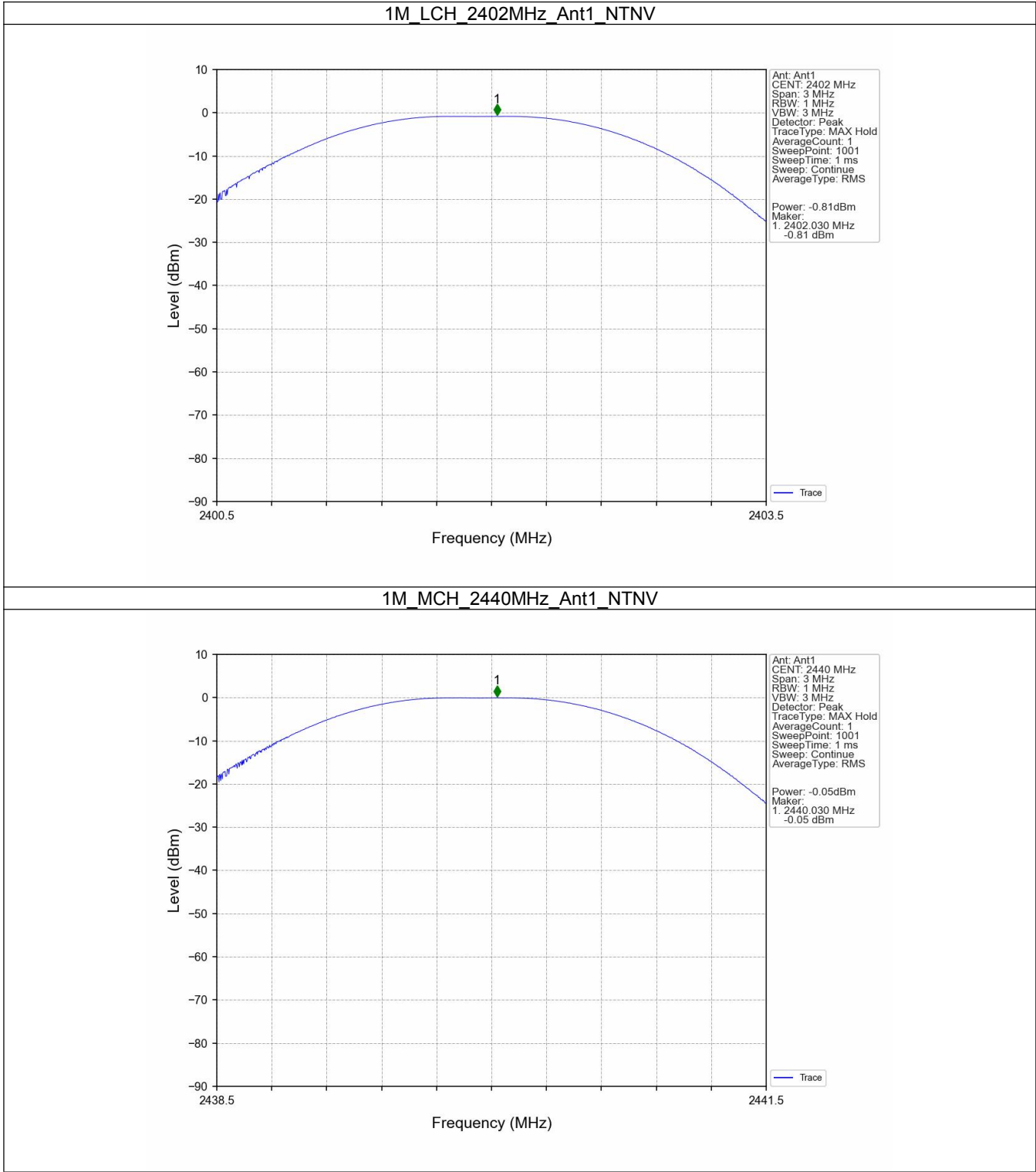
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-0.81	<=30	Pass
		2440	-0.05	<=30	Pass
		2480	-0.22	<=30	Pass
Note1: Antenna Gain: Ant1: 1.08dBi; Note2: RF Cable loss=0.5dB Note3: The test results include RF Cable loss.					

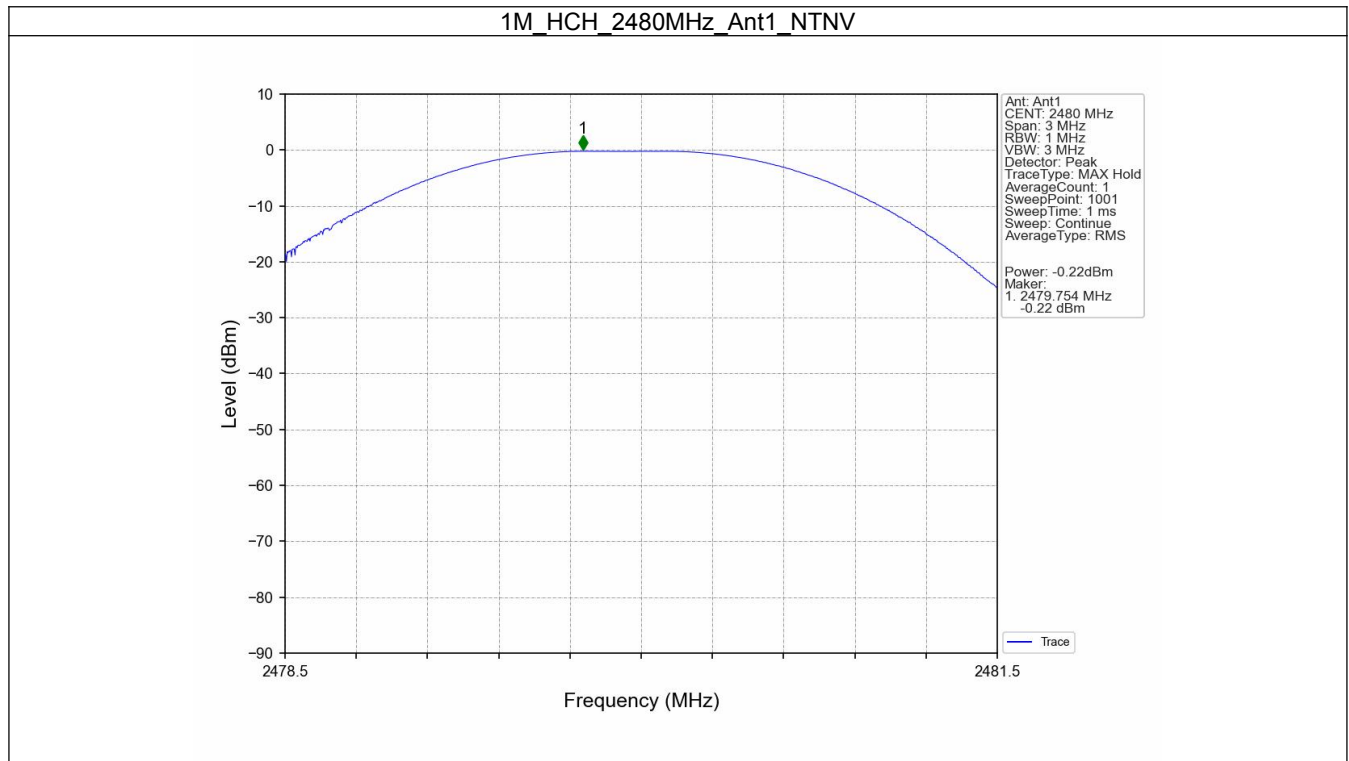
FCC ID: 2ACH3-GPRGBSBAR

3.2 Test Graph

3.2.1 Power



FCC ID: 2ACH3-GPRGBSBAR



FCC ID: 2ACH3-GPRGBSBAR

4. Maximum Power Spectral Density

4.1 Test Result

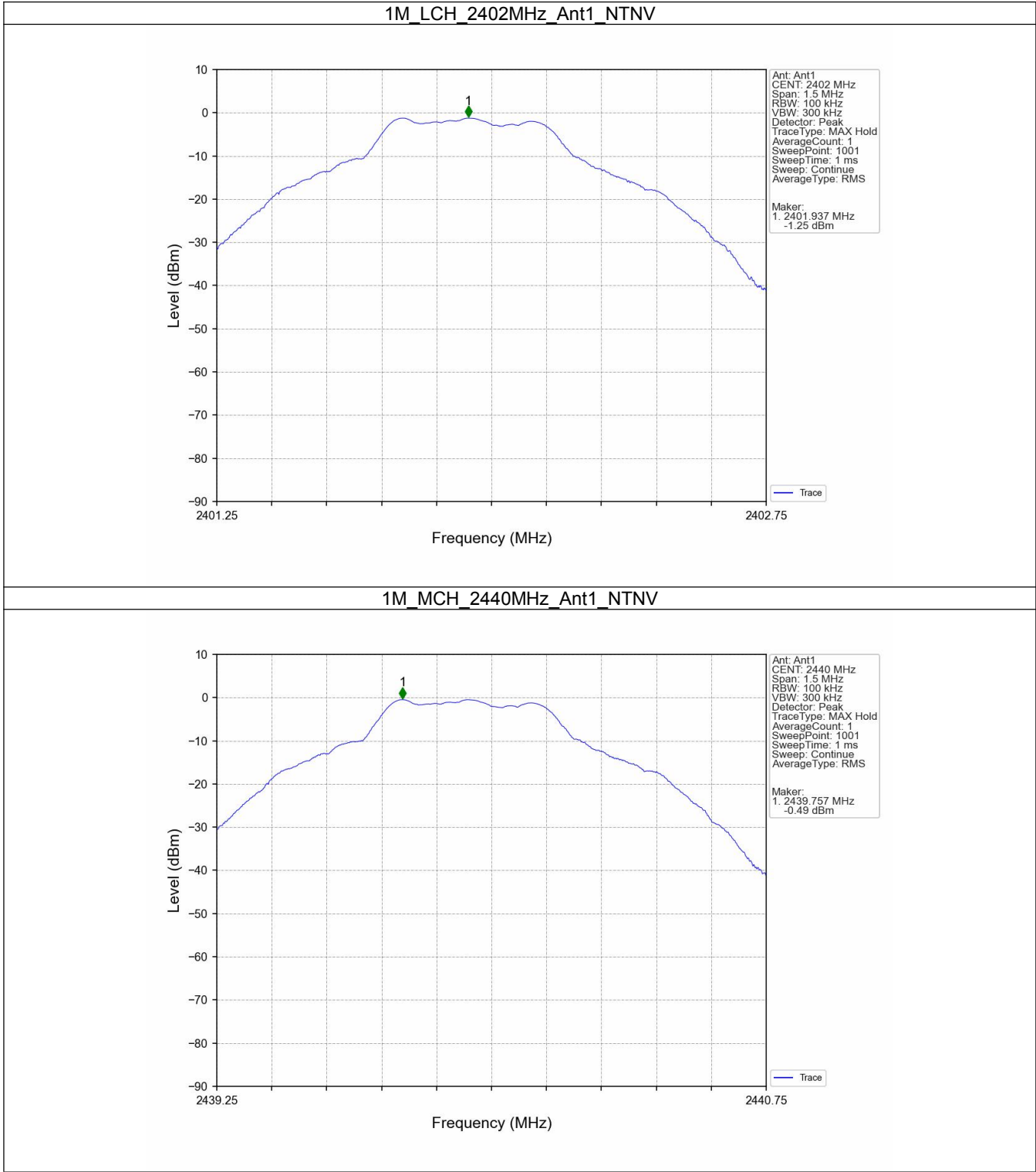
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	-1.25dBm/100kHz	<=8	Pass
		2440	-0.49dBm/100kHz	<=8	Pass
		2480	-0.65dBm/100kHz	<=8	Pass
Note1: Antenna Gain: Ant1: 1.08dBi; Note2: RF Cable loss=0.5dB Note3: The test results include RF Cable loss.					

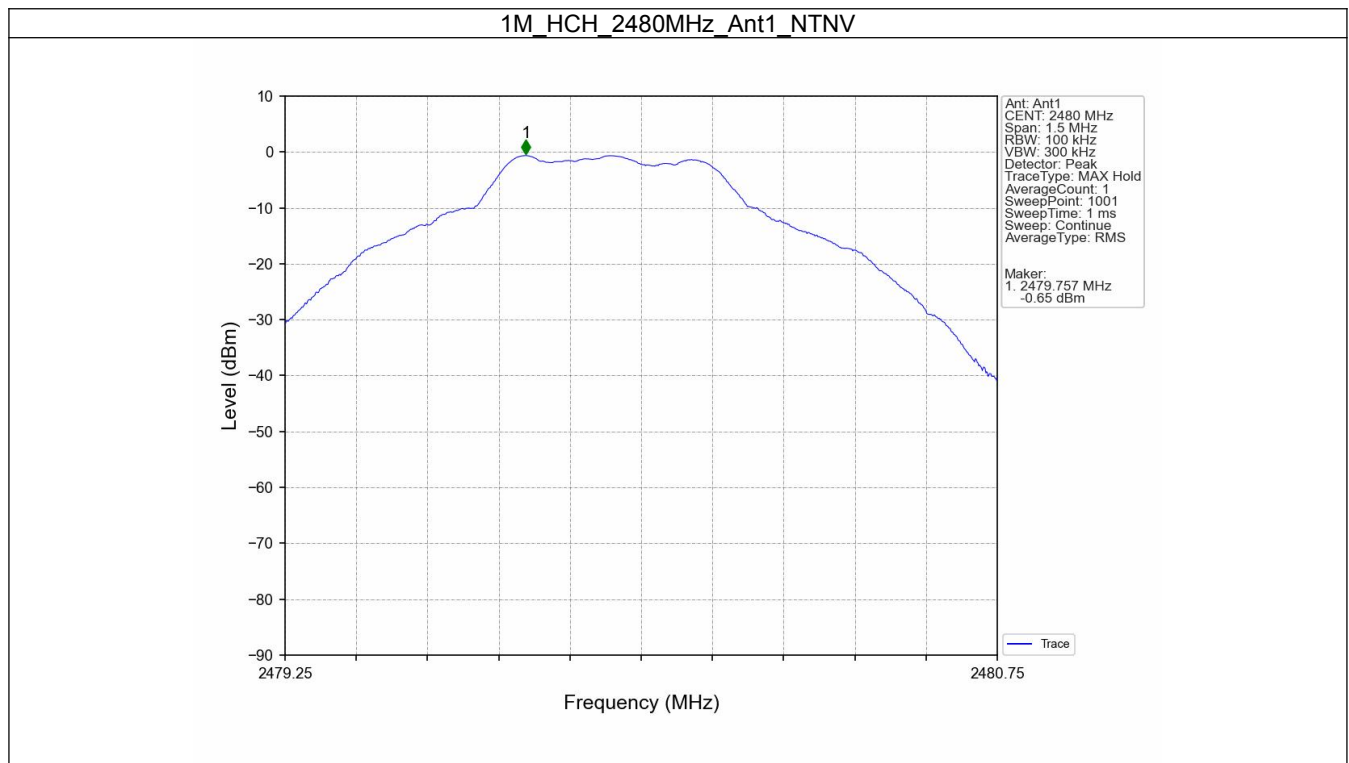
FCC ID: 2ACH3-GPRGBSBAR

4.2 Test Graph

4.2.1 PSD



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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	-1.24
		2440	1	-0.49
		2480	1	-0.64

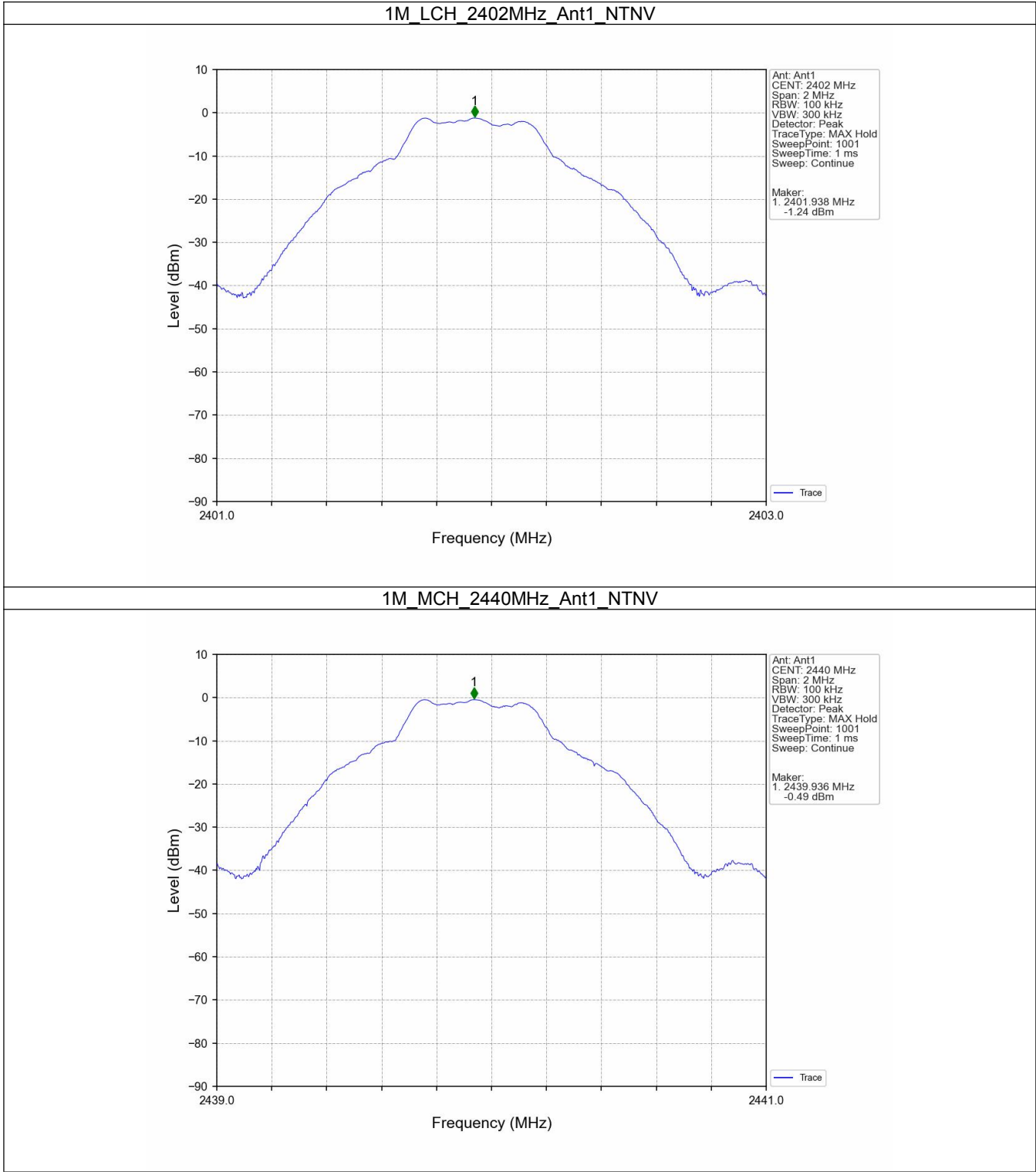
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-1.24	-21.24	Pass
		2440	1	-0.49	-20.49	Pass
		2480	1	-0.64	-20.64	Pass

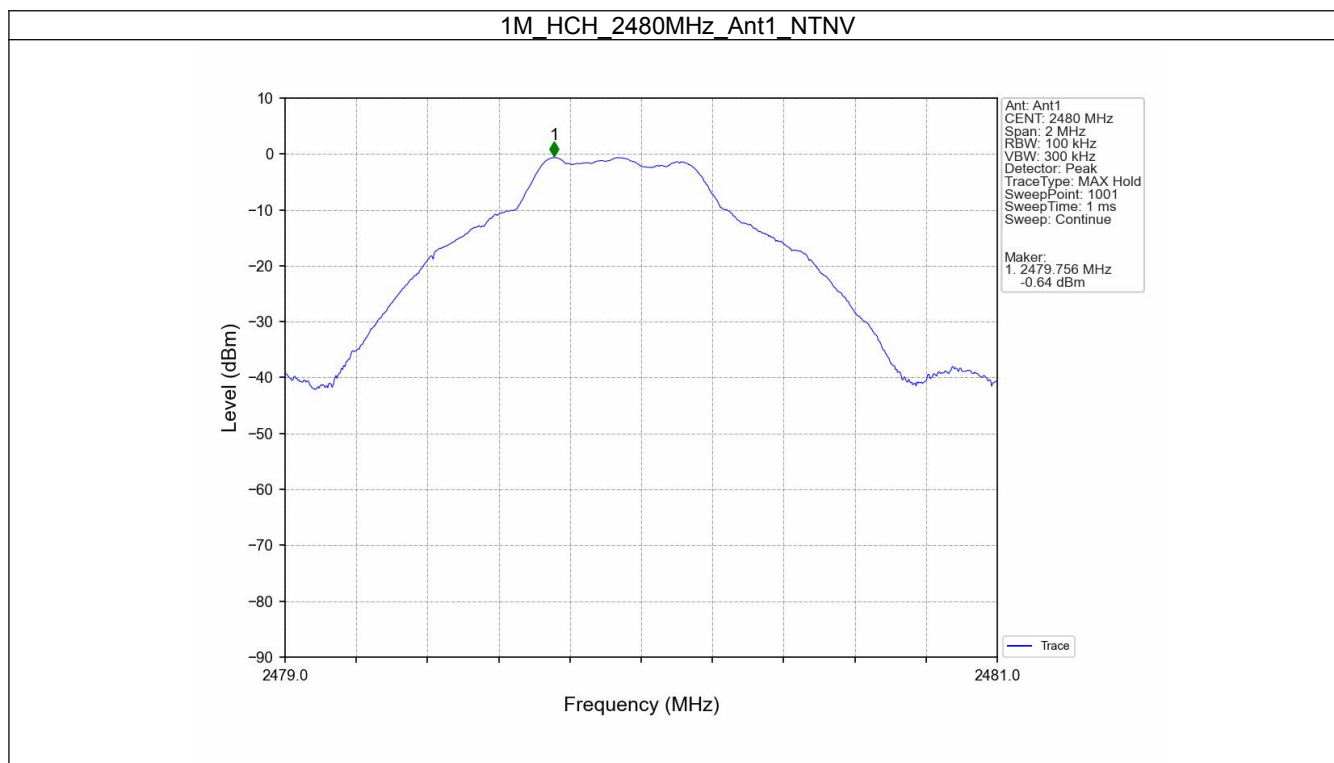
FCC ID: 2ACH3-GPRGBSBAR

5.2 Test Graph

5.2.1 Ref

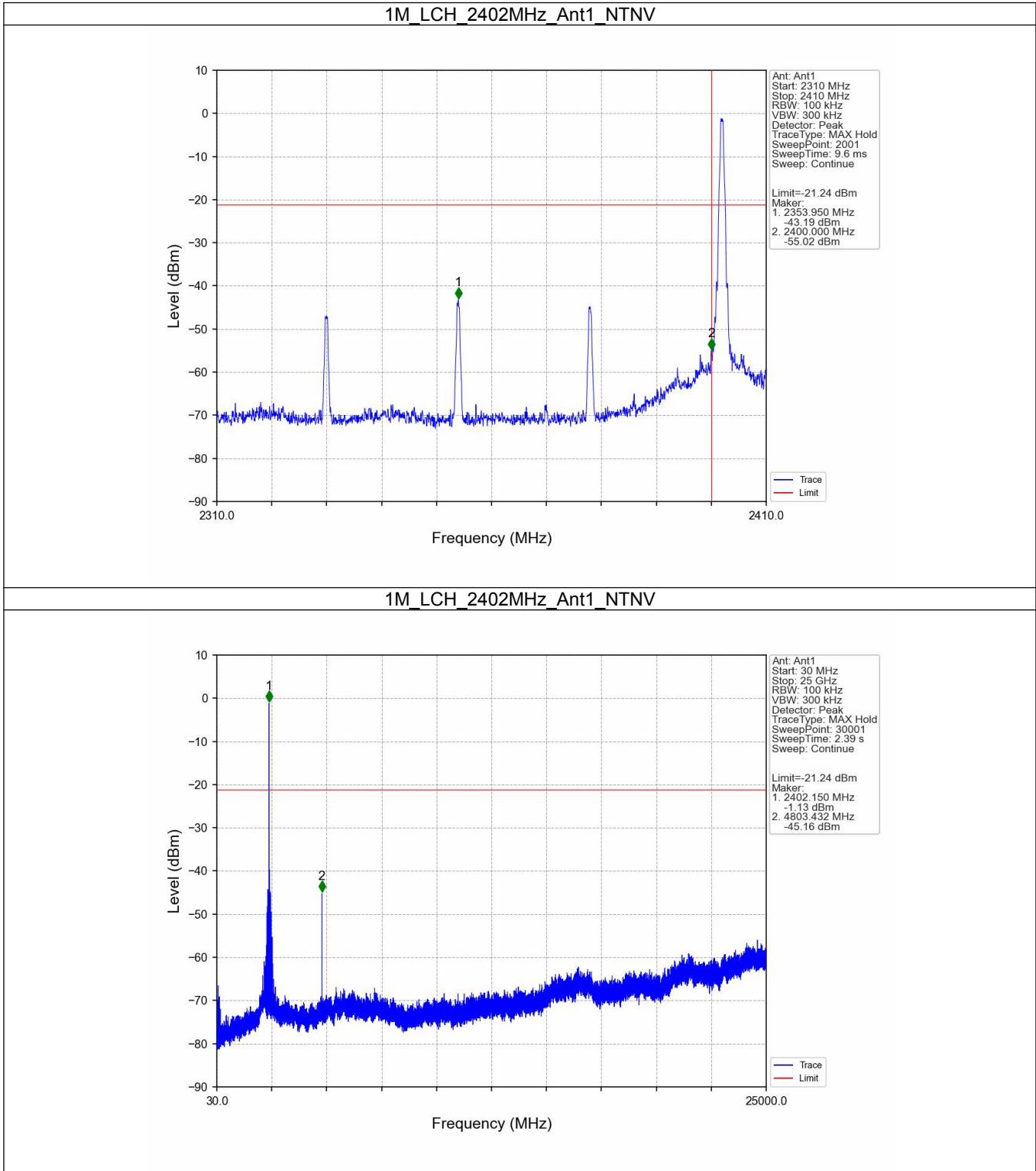


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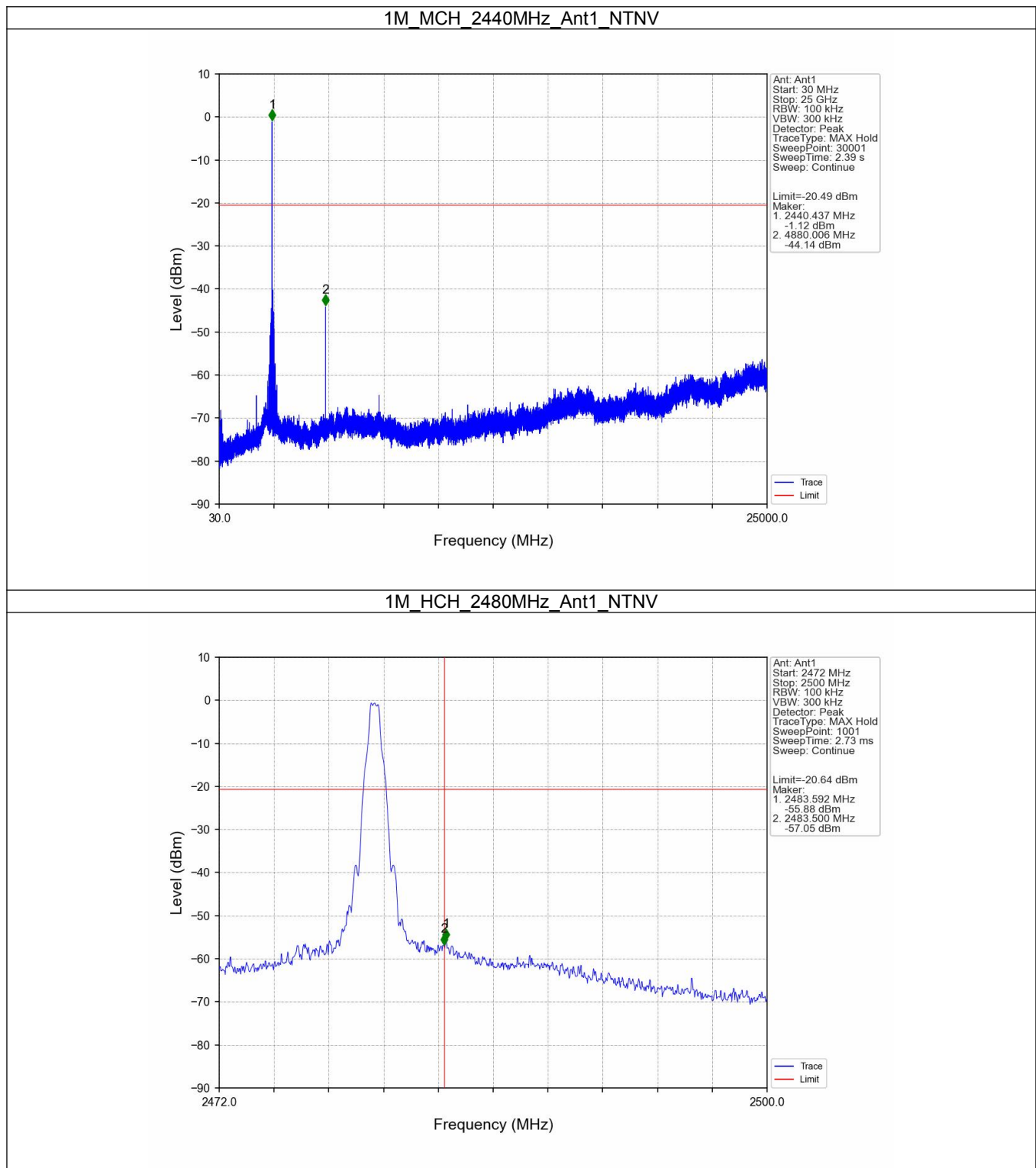


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5.2.2 CSE



FCC ID: 2ACH3-GPRGBSBAR



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