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Annex for Bluetooth Low Energy

Test Report No.: CTL2604034061-WF

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FCC ID: 2BSEJ-R04SRING

1. Duty Cycle

1.1 Test Result

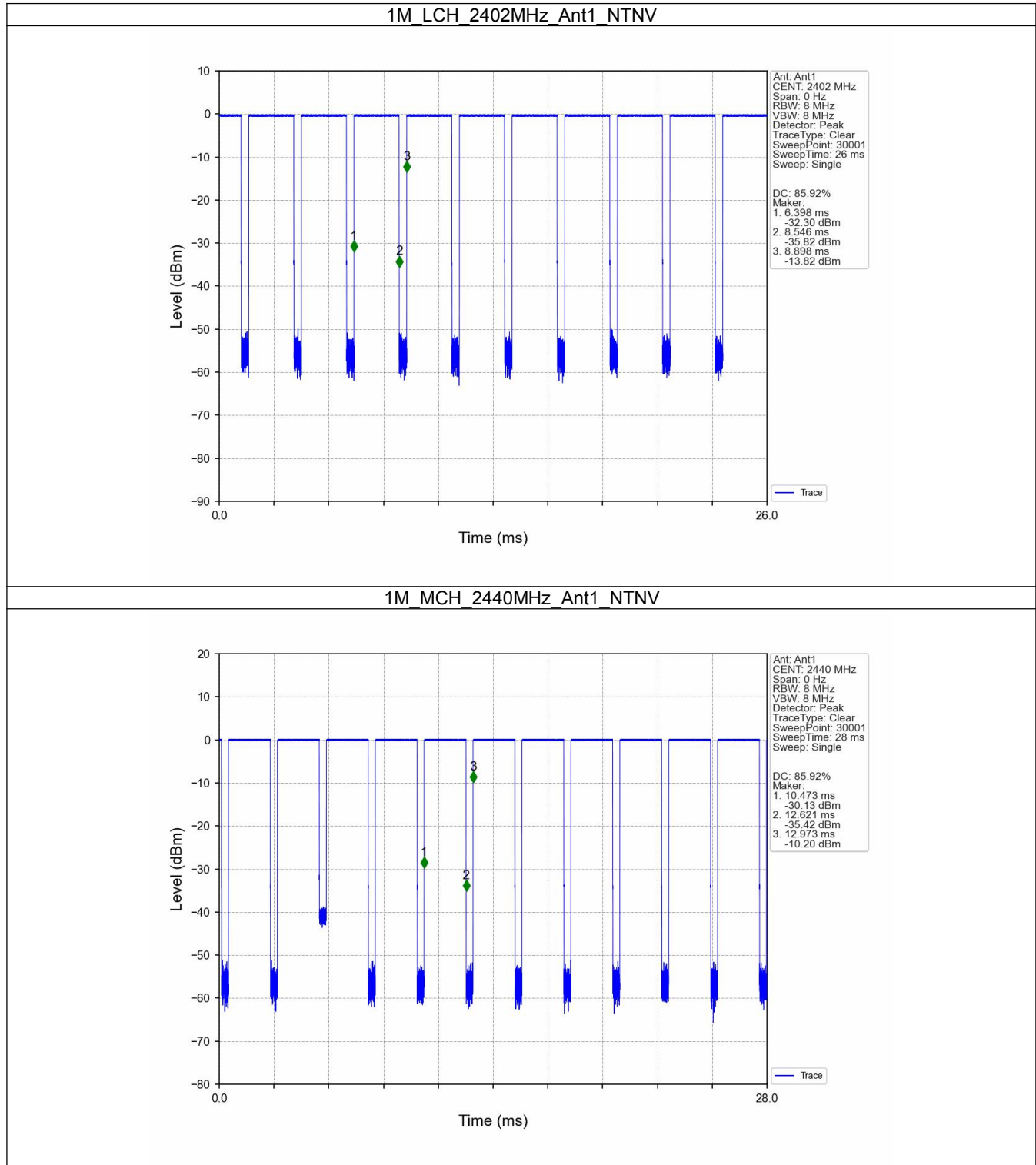
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	2.148	2.500	85.92	0.66	0.03
		2440	2.148	2.500	85.92	0.66	7.03
		2480	2.149	2.500	85.96	0.66	0.03

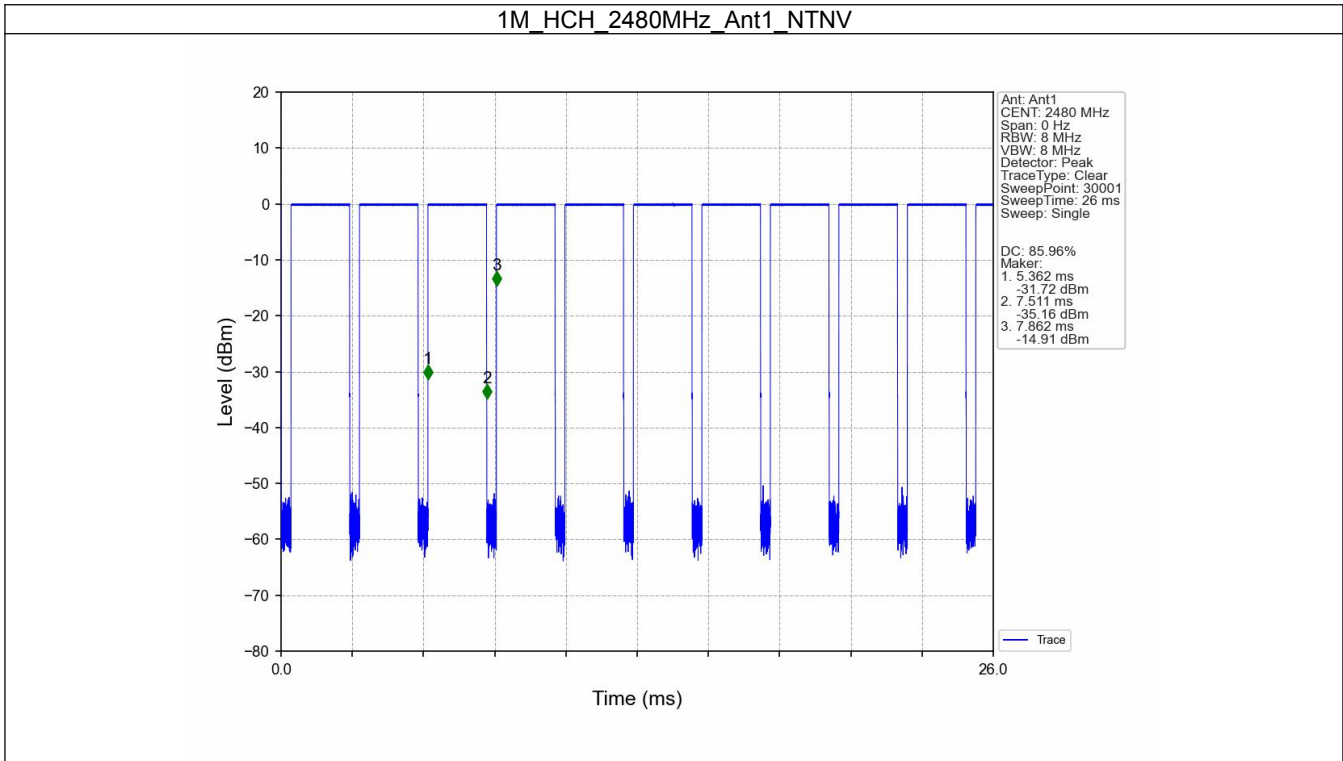
FCC ID: 2BSEJ-R04SRING

1.2 Test Graph

1.2.1 Ant1



FCC ID: 2BSEJ-R04SRING



FCC ID: 2BSEJ-R04SRING

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	1.025	/	Pass
		2440	1	1.028	/	Pass
		2480	1	1.027	/	Pass

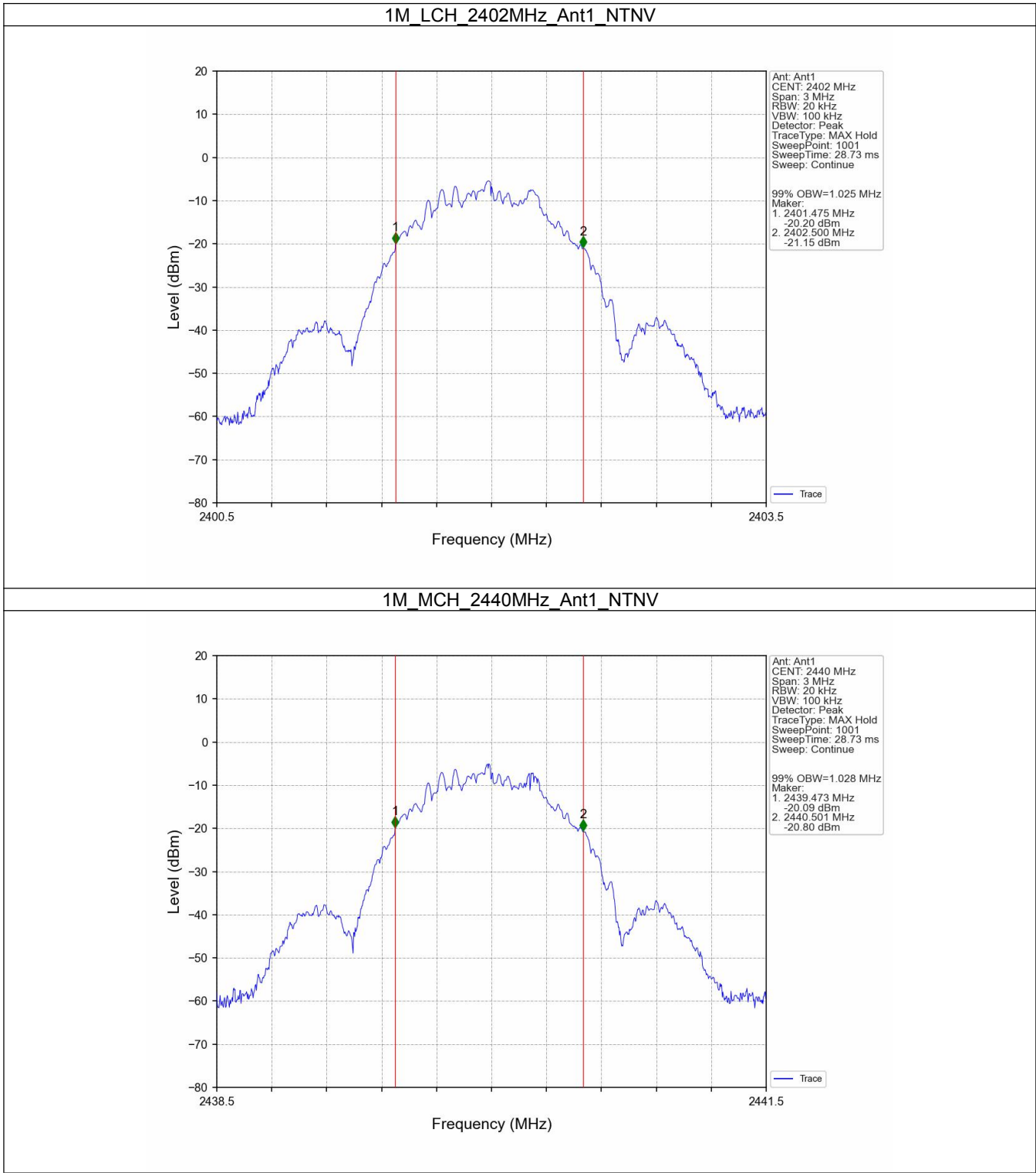
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.666	≥ 0.5	Pass
		2440	1	0.670	≥ 0.5	Pass
		2480	1	0.667	≥ 0.5	Pass

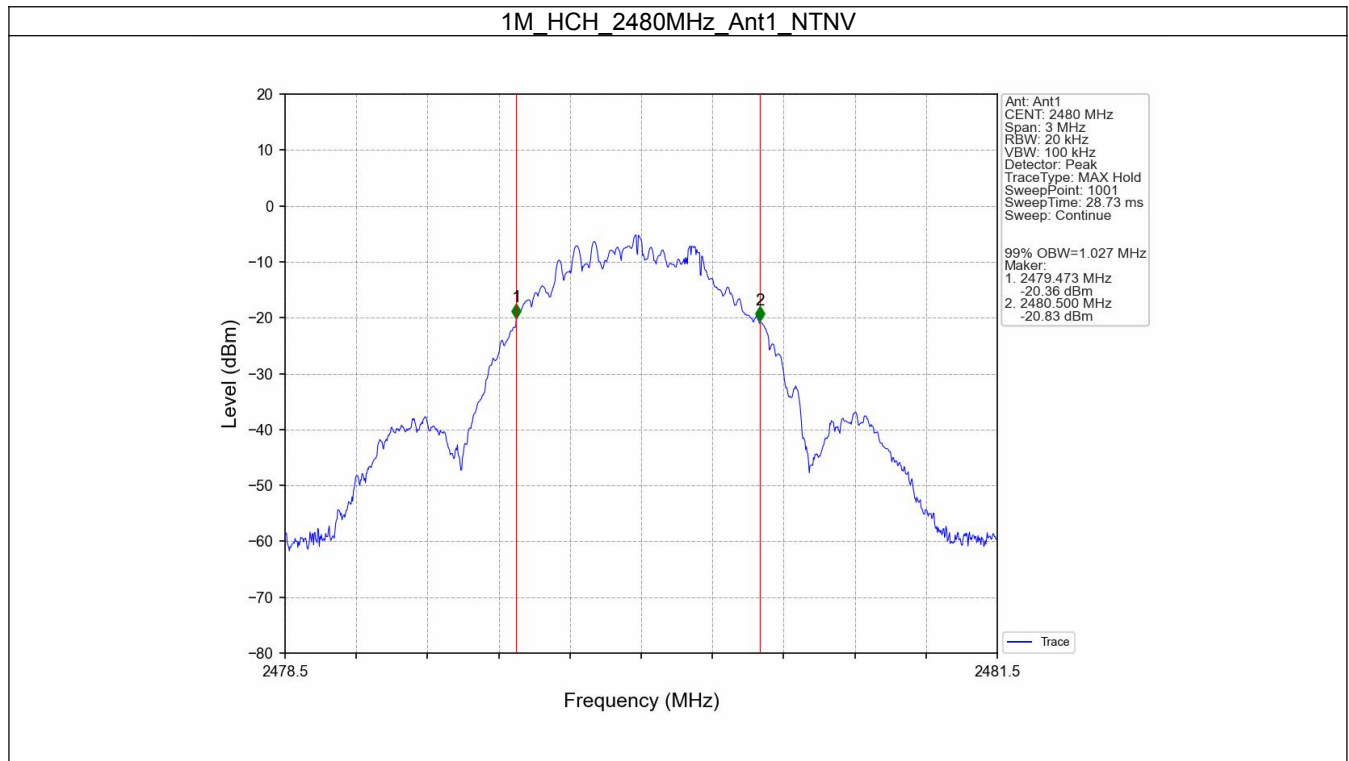
FCC ID: 2BSEJ-R04SRING

2.2 Test Graph

2.2.1 OBW

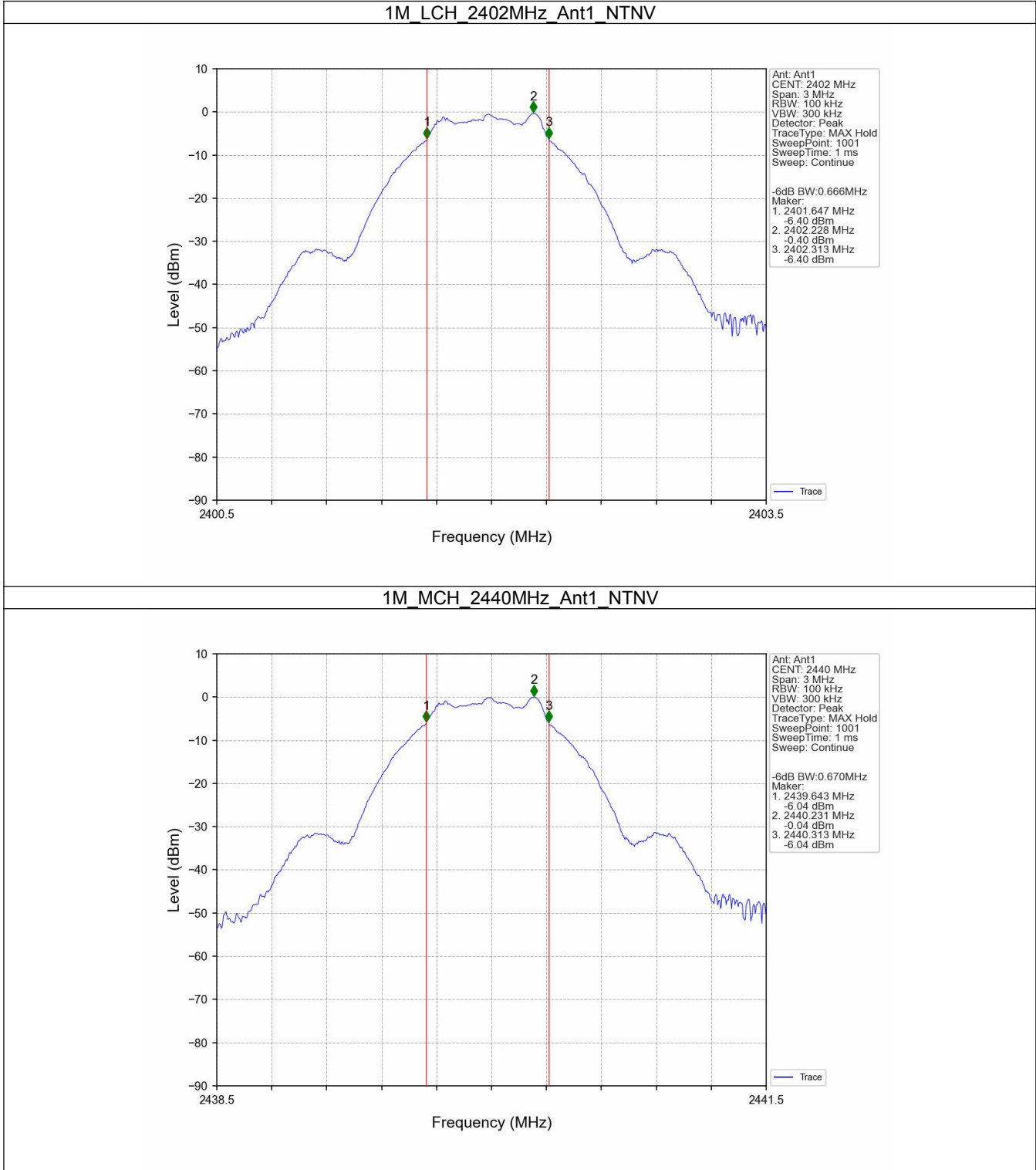


FCC ID: 2BSEJ-R04SRING

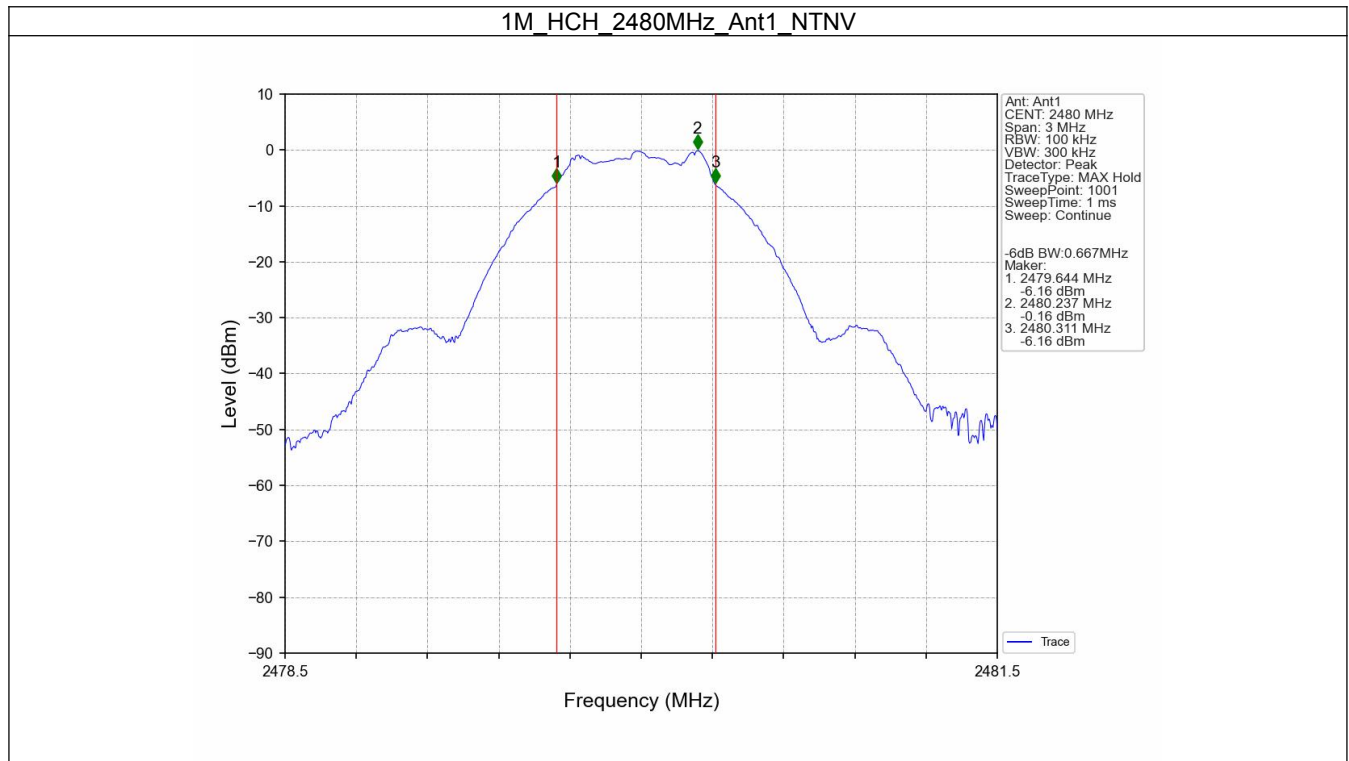


FCC ID: 2BSEJ-R04SRING

2.2.2 6dB BW



FCC ID: 2BSEJ-R04SRING



FCC ID: 2BSEJ-R04SRING

3. Maximum Conducted Output Power

3.1 Test Result

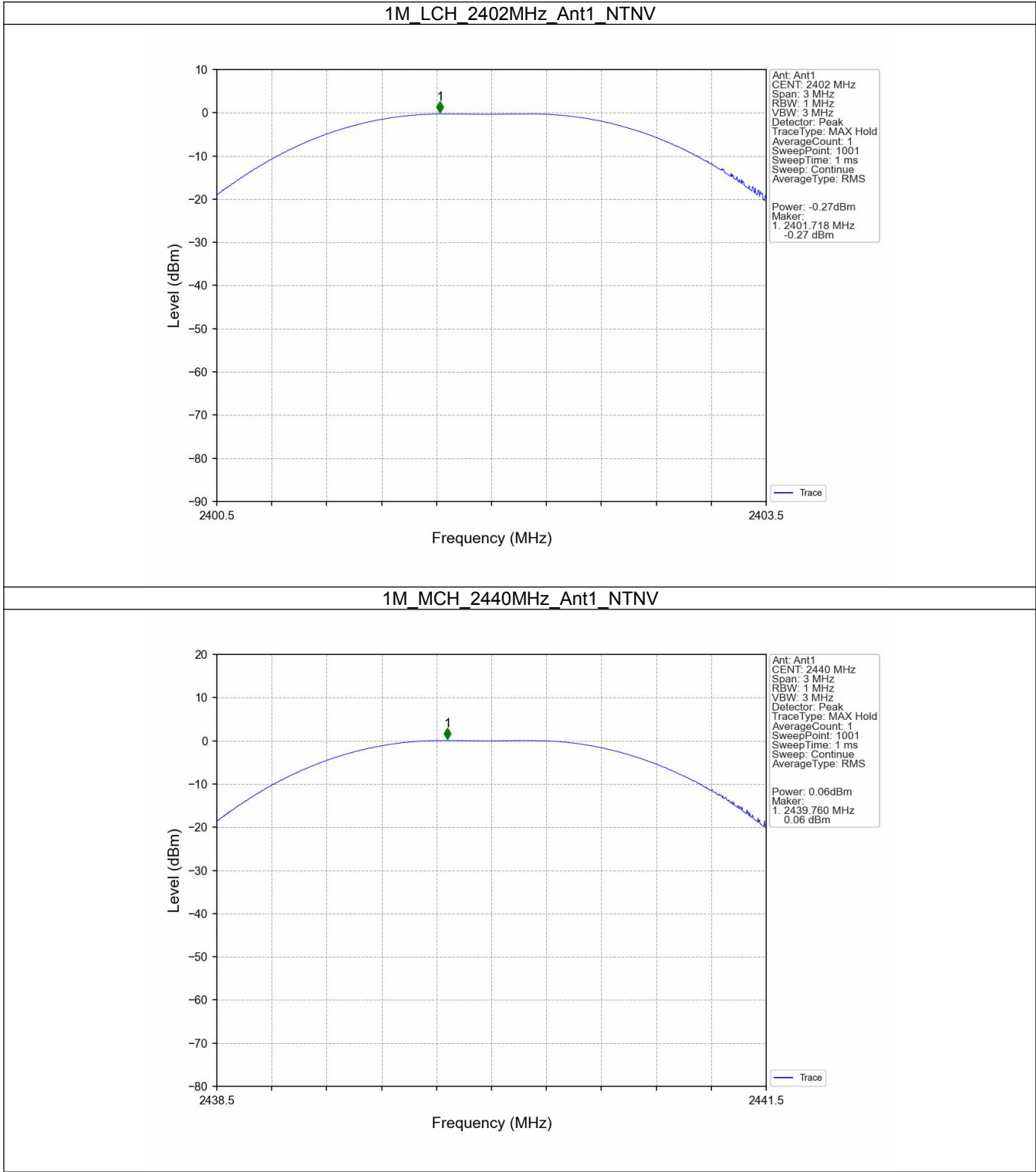
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-0.27	<=30	Pass
		2440	0.06	<=30	Pass
		2480	0.02	<=30	Pass
Note1: Antenna Gain: Ant1: -4.22dBi; Note2: RF Cable loss=0.5dB Note3: The test results include RF Cable loss.					

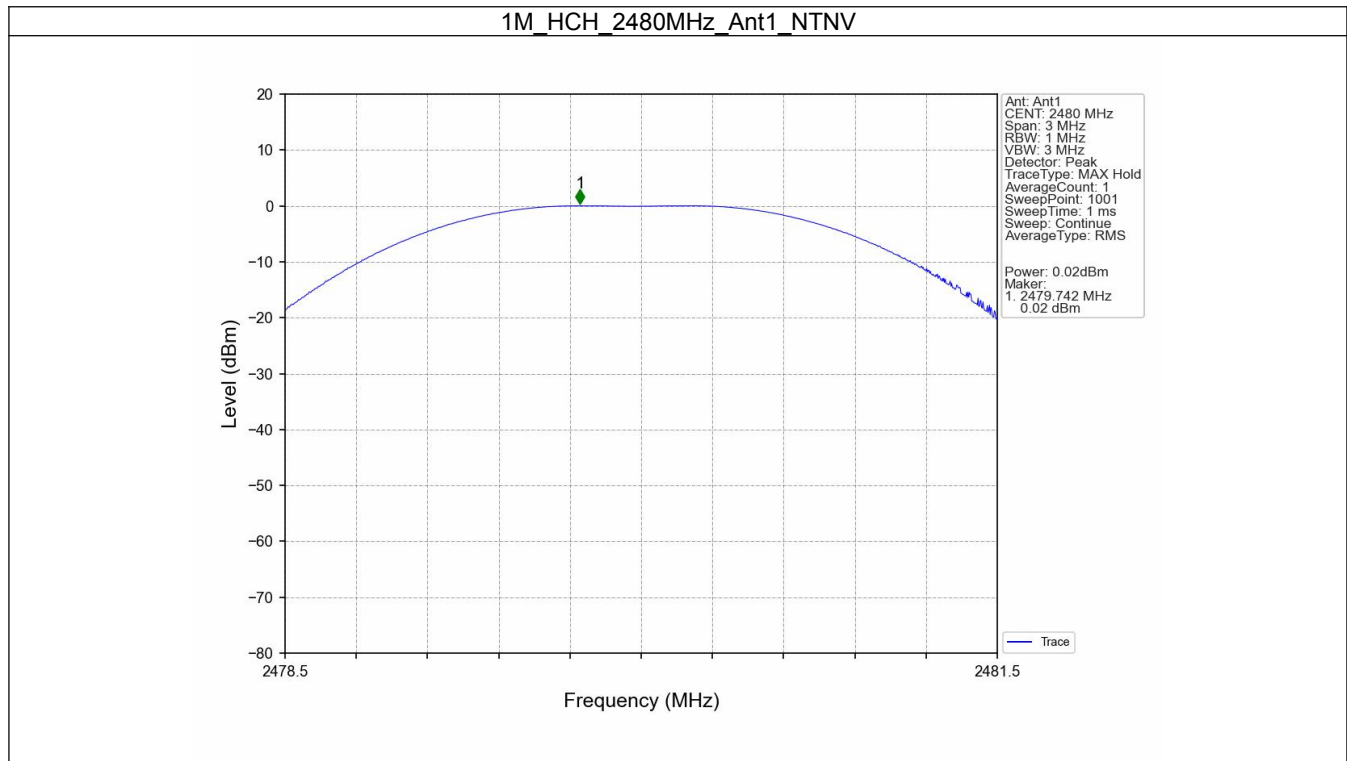
FCC ID: 2BSEJ-R04SRING

3.2 Test Graph

3.2.1 Power



FCC ID: 2BSEJ-R04SRING



FCC ID: 2BSEJ-R04SRING

4. Maximum Power Spectral Density

4.1 Test Result

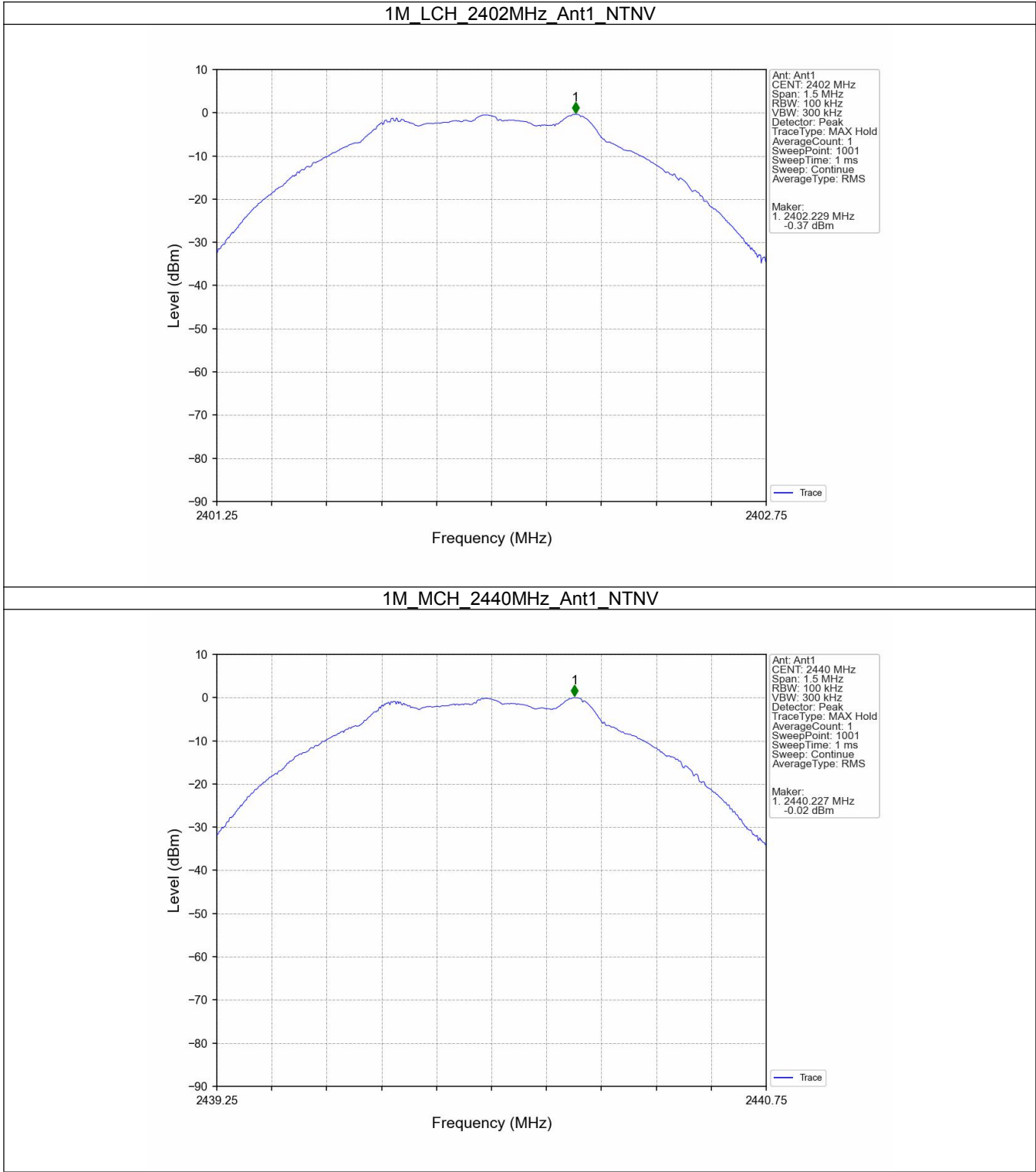
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-0.37	<=8	Pass
		2440	-0.02	<=8	Pass
		2480	-0.07	<=8	Pass
Note1: Antenna Gain: Ant1: -4.22dBi; Note2: RF Cable loss=0.5dB Note3: The test results include RF Cable loss.					

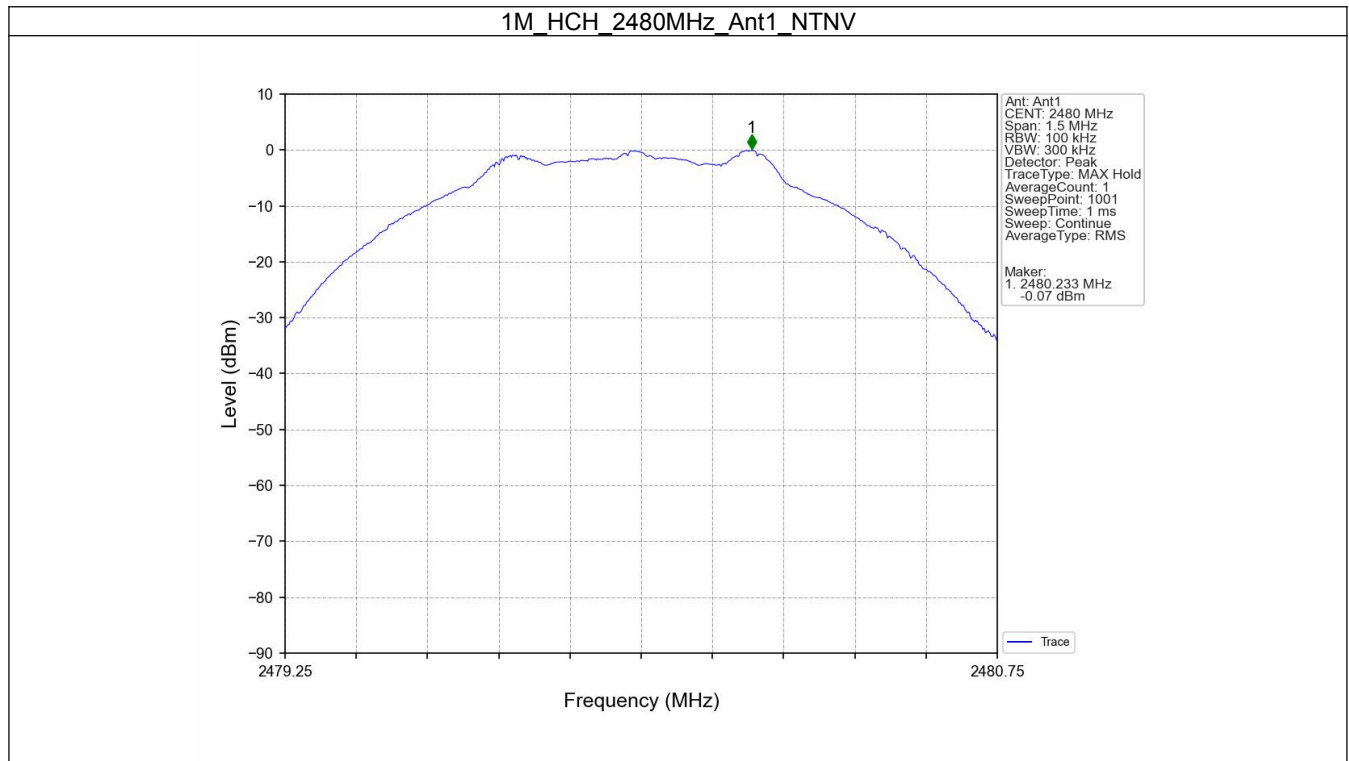
FCC ID: 2BSEJ-R04SRING

4.2 Test Graph

4.2.1 PSD



FCC ID: 2BSEJ-R04SRING



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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	-0.37
		2440	1	0.00
		2480	1	-0.06

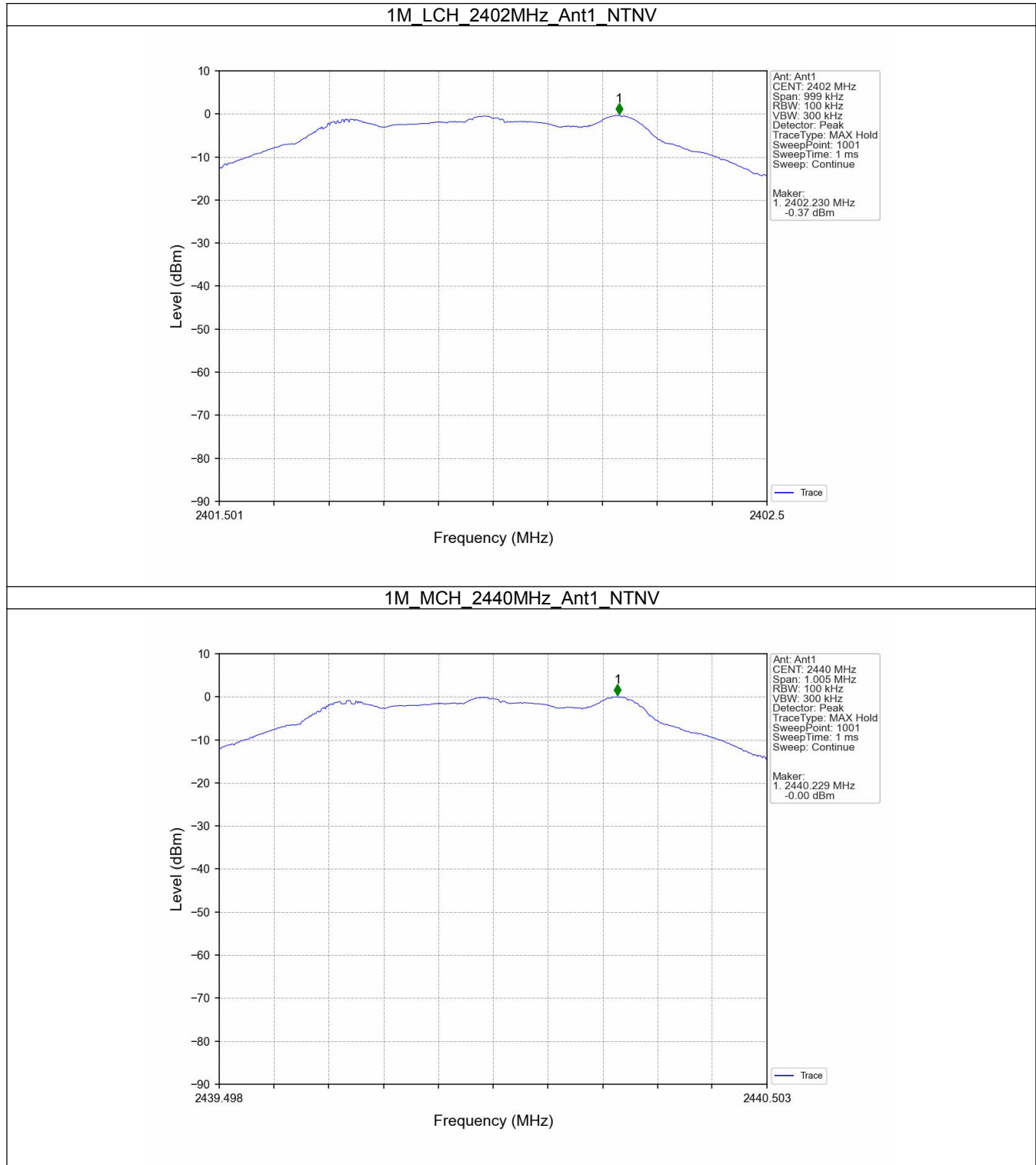
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.00	-20.00	Pass
		2440	1	0.00	-20.00	Pass
		2480	1	0.00	-20.00	Pass

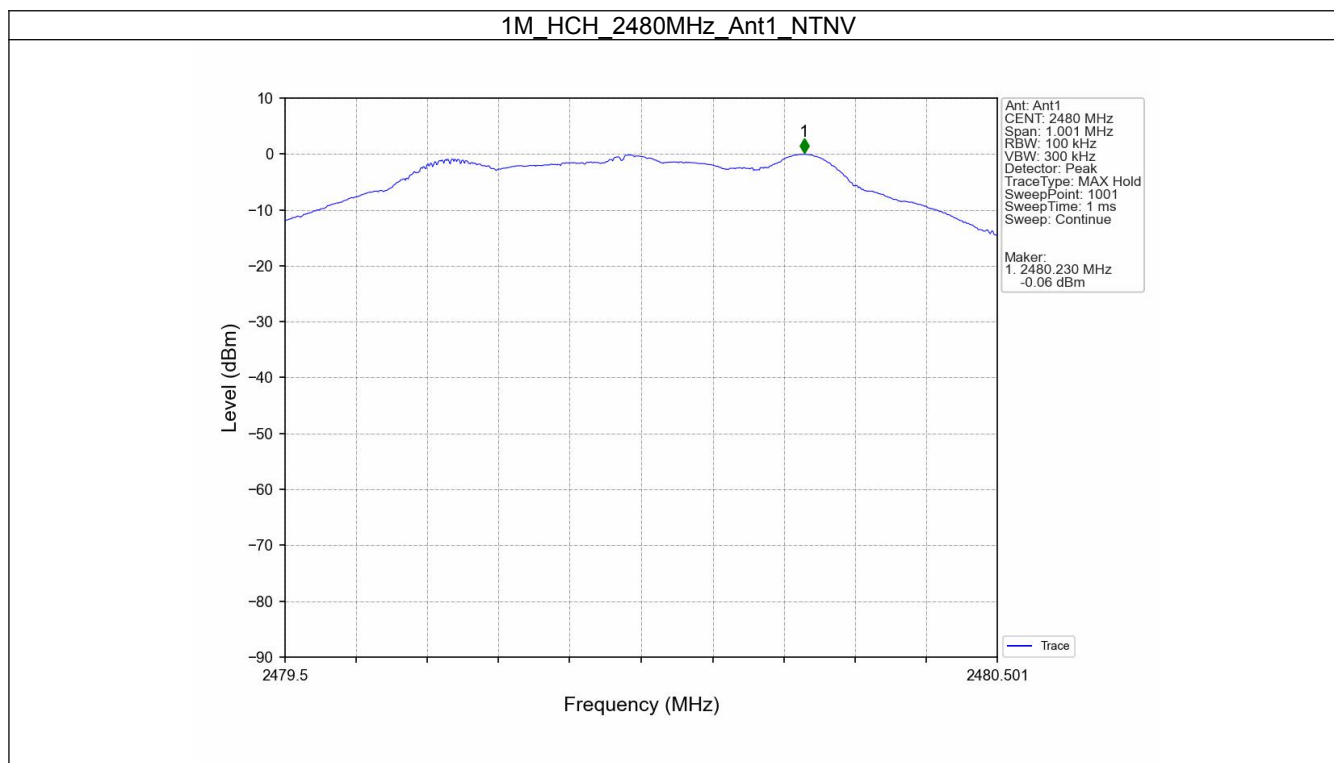
FCC ID: 2BSEJ-R04SRING

5.2 Test Graph

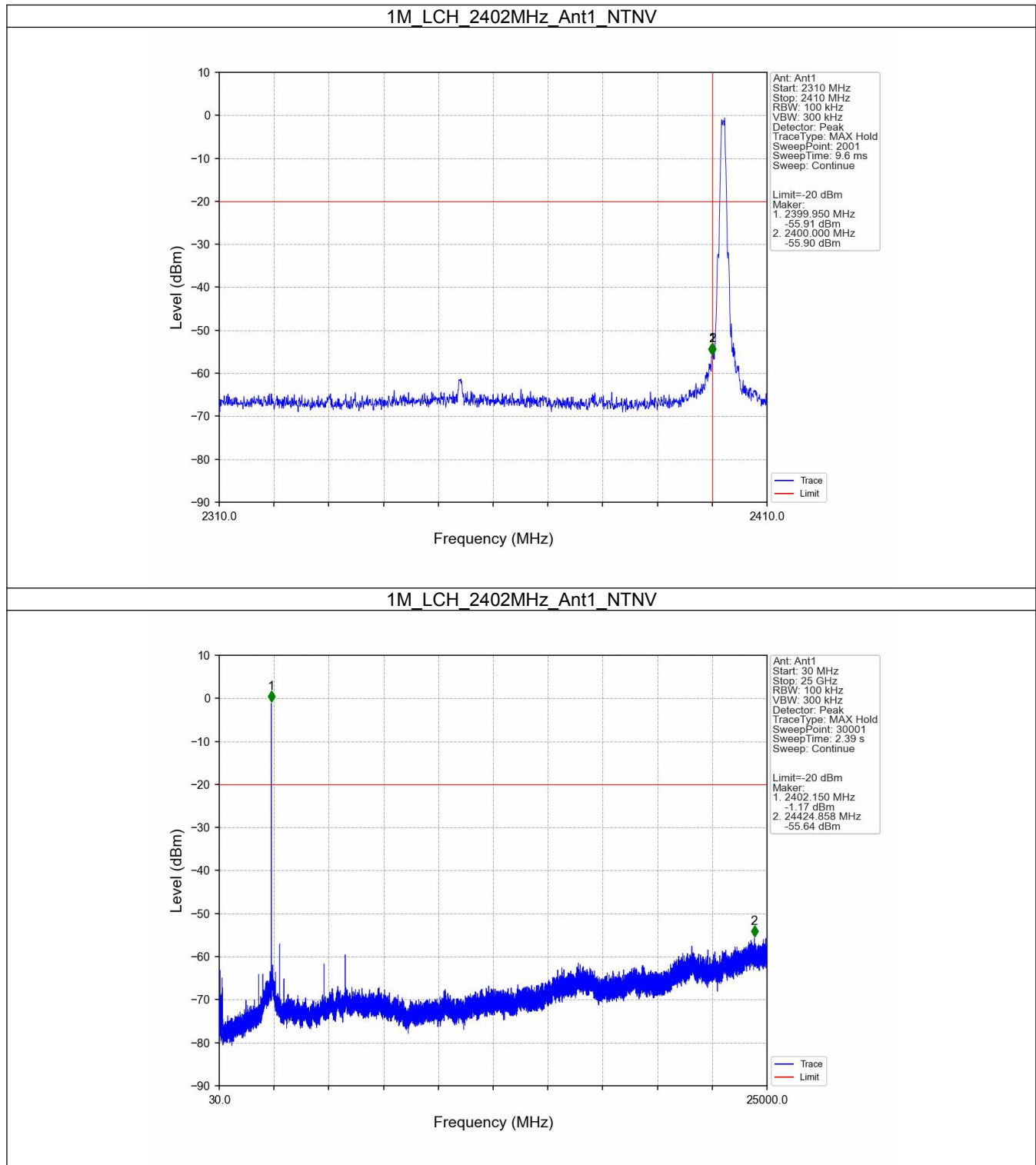
5.2.1 Ref



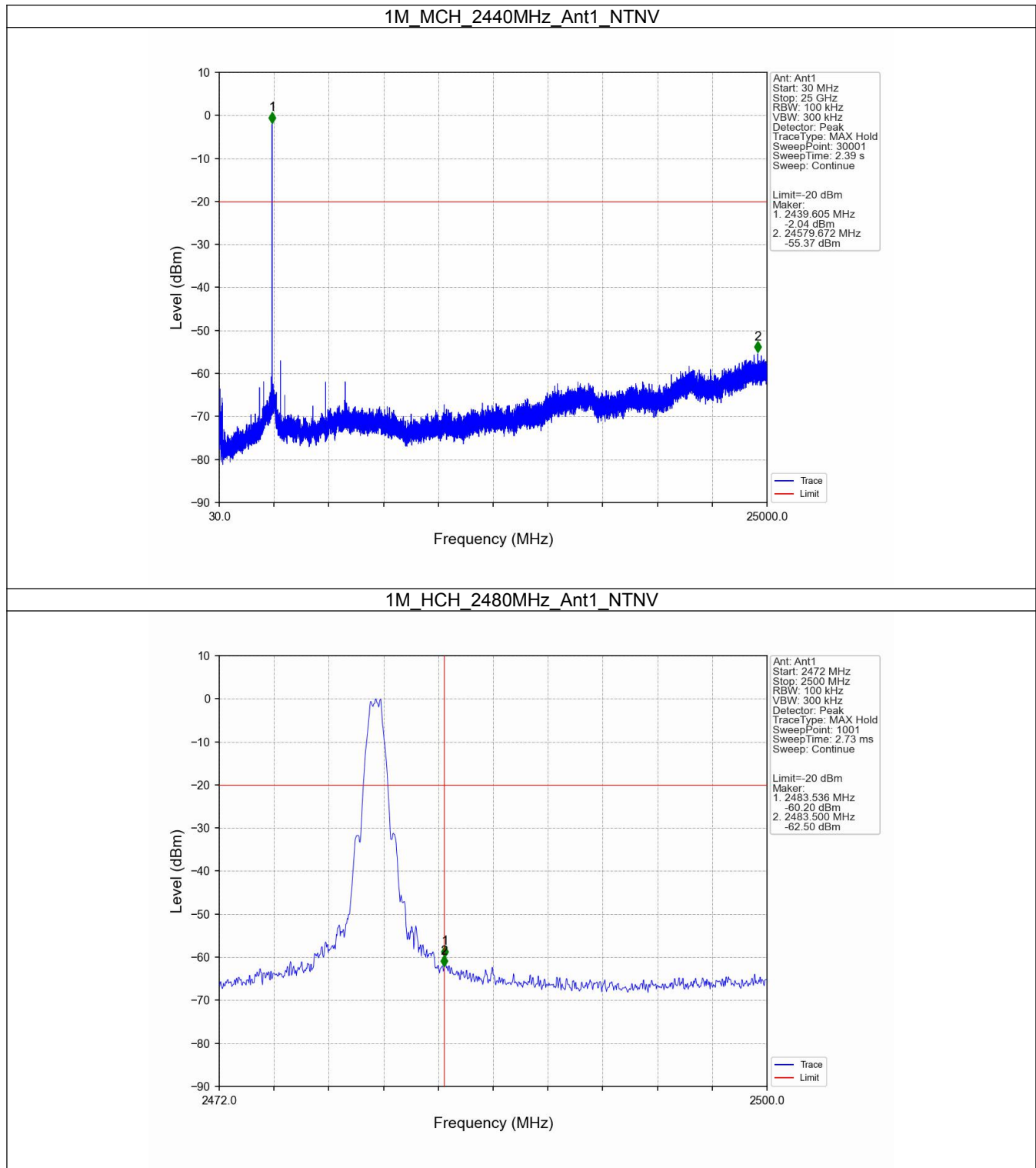
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FCC ID: 2BSEJ-R04SRING

5.2.2 CSE

FCC ID: 2BSEJ-R04SRING



FCC ID: 2BSEJ-R04SRING

