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Annex for Bluetooth Low Energy

Test Report No.: CTL2604282011-WF01

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FCCID:2BSOH-WWA

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.048	/	Pass
		2440	1	1.048	/	Pass
		2480	1	1.050	/	Pass
2M	SISO	2402	1	2.051	/	Pass
		2440	1	2.054	/	Pass
		2480	1	2.057	/	Pass

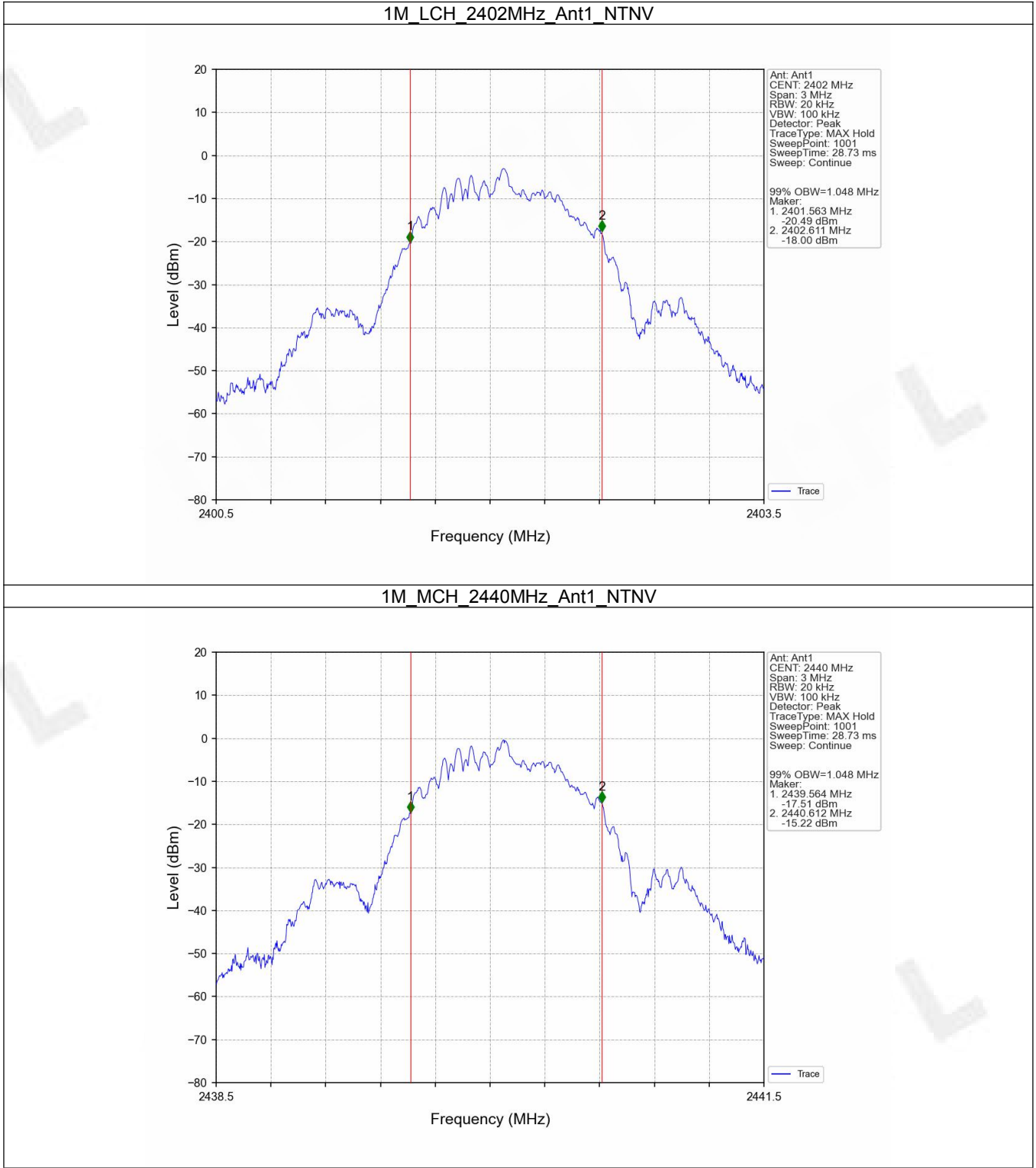
1.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.705	≥ 0.5	Pass
		2440	1	0.706	≥ 0.5	Pass
		2480	1	0.702	≥ 0.5	Pass
2M	SISO	2402	1	1.160	≥ 0.5	Pass
		2440	1	1.155	≥ 0.5	Pass
		2480	1	1.160	≥ 0.5	Pass

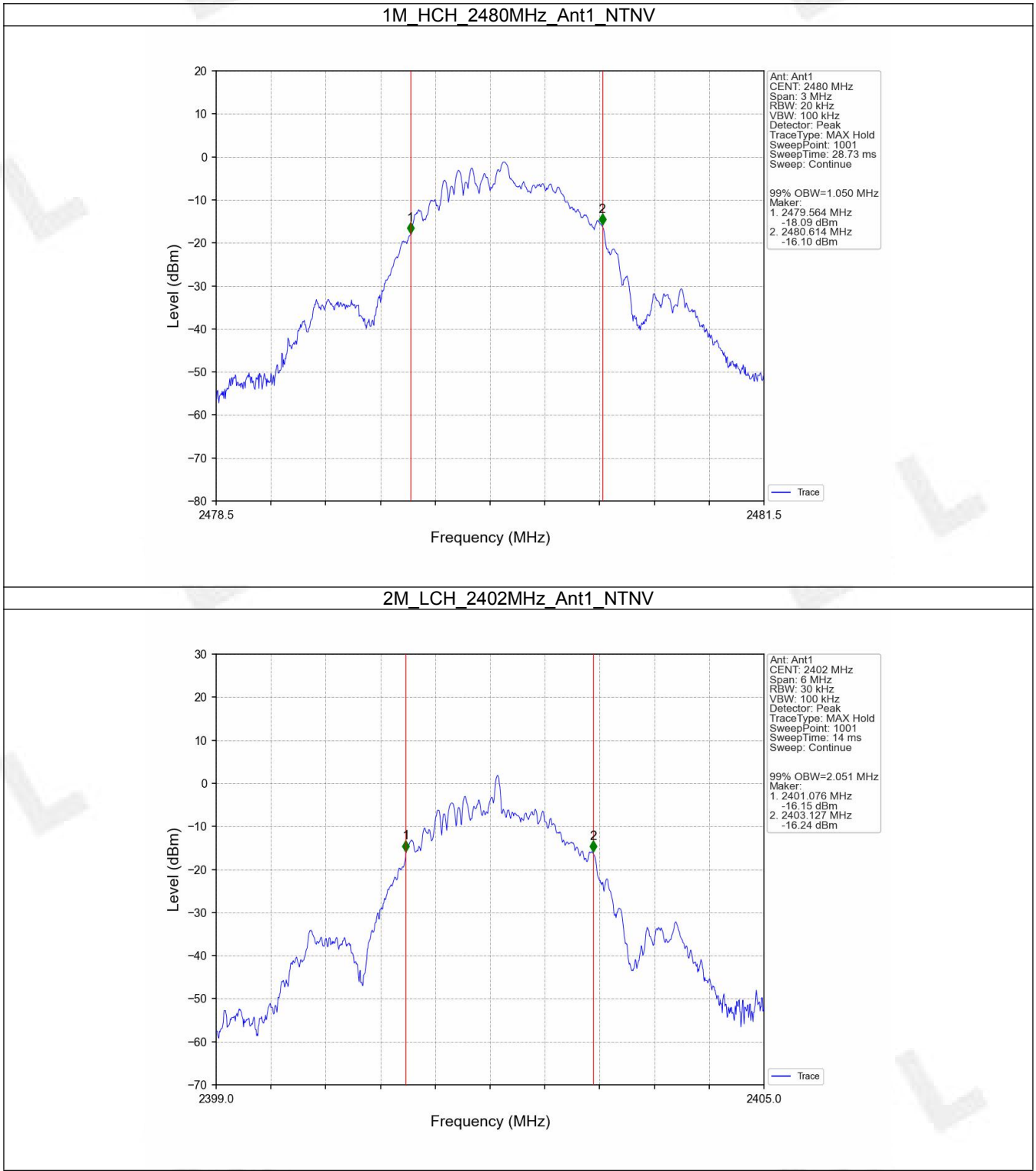
FCCID:2BSOH-WWA

1.2 Test Graph

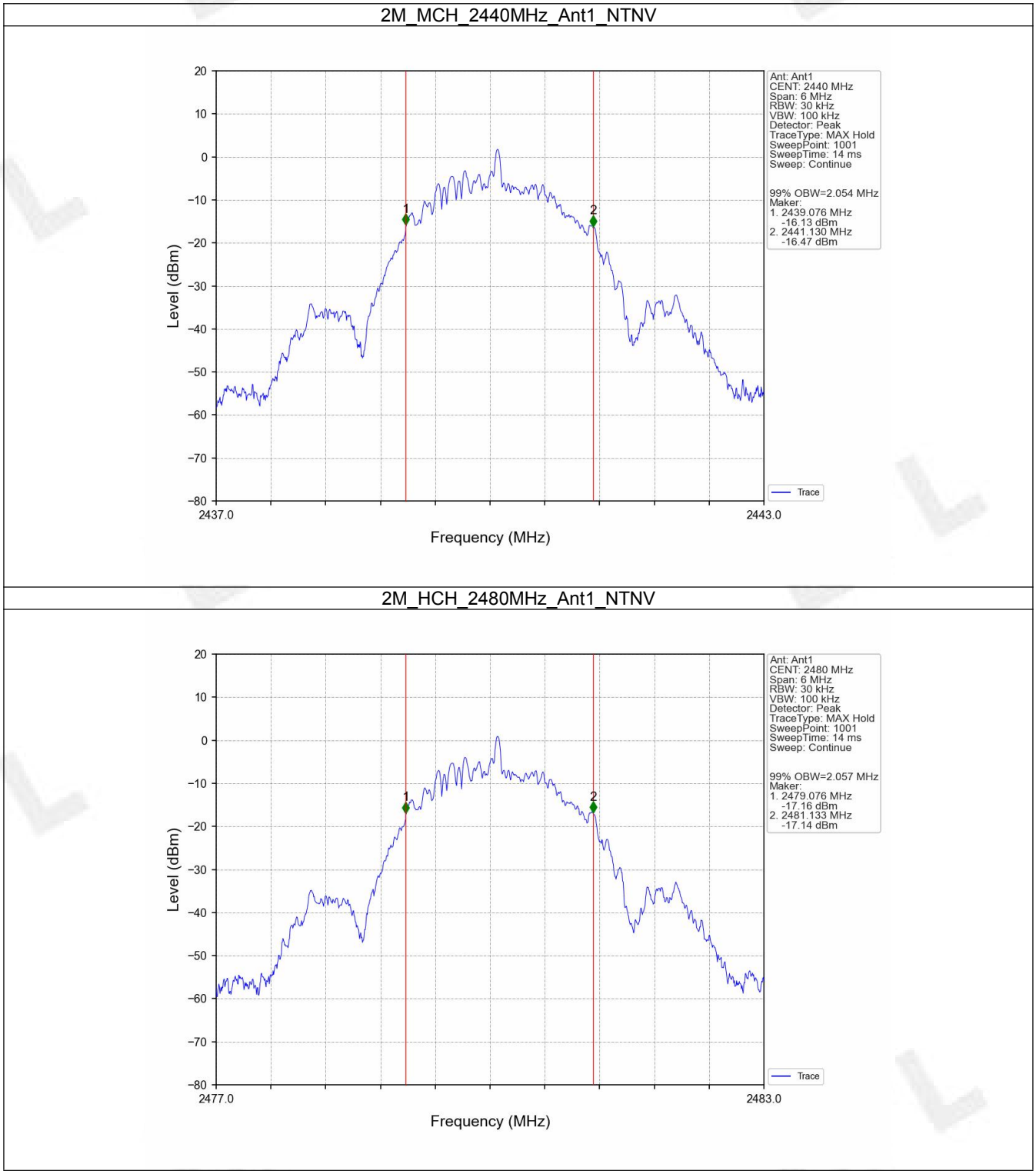
1.2.1 OBW



FCCID:2BSOH-WWA

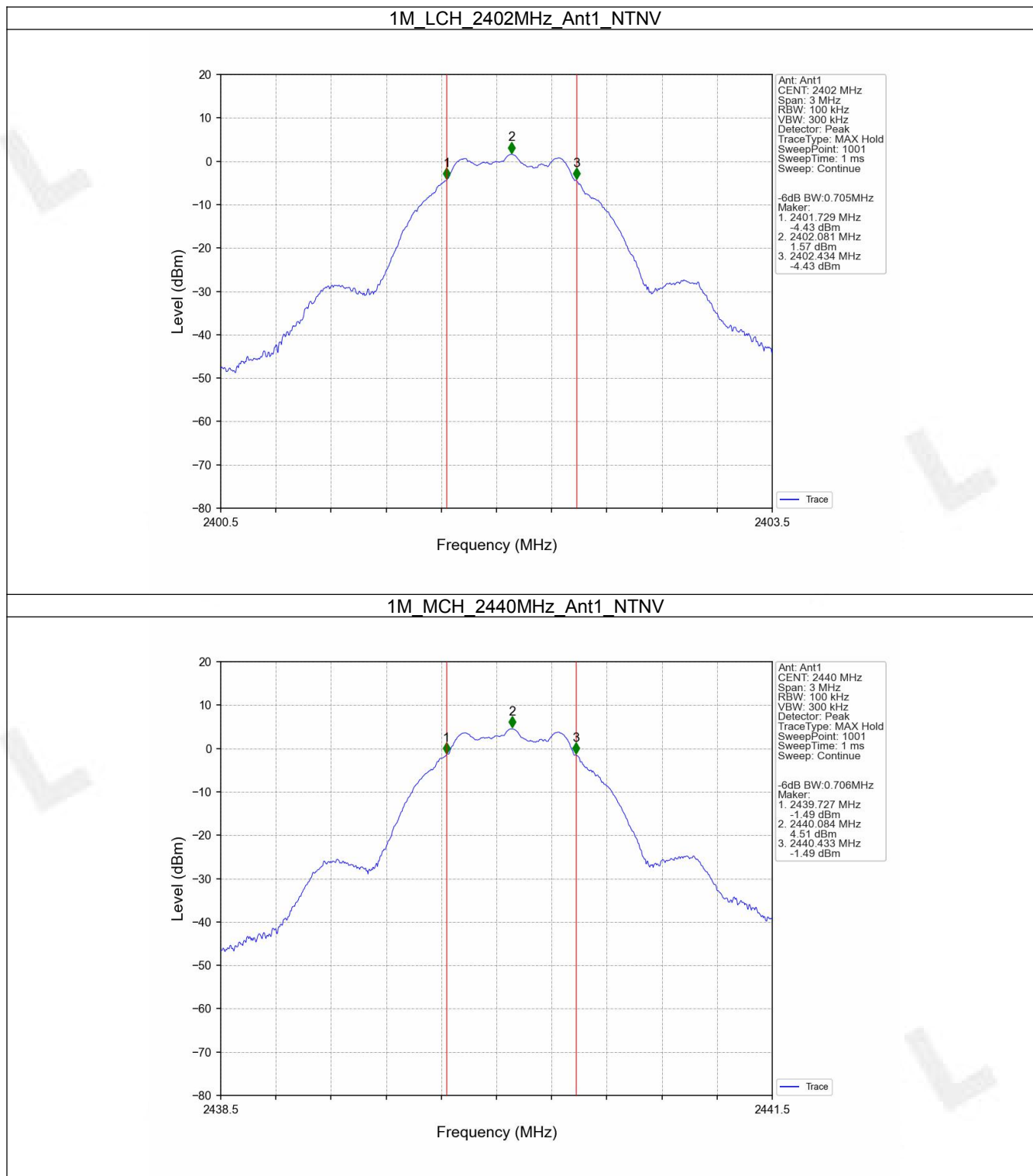


FCCID:2BSOH-WWA

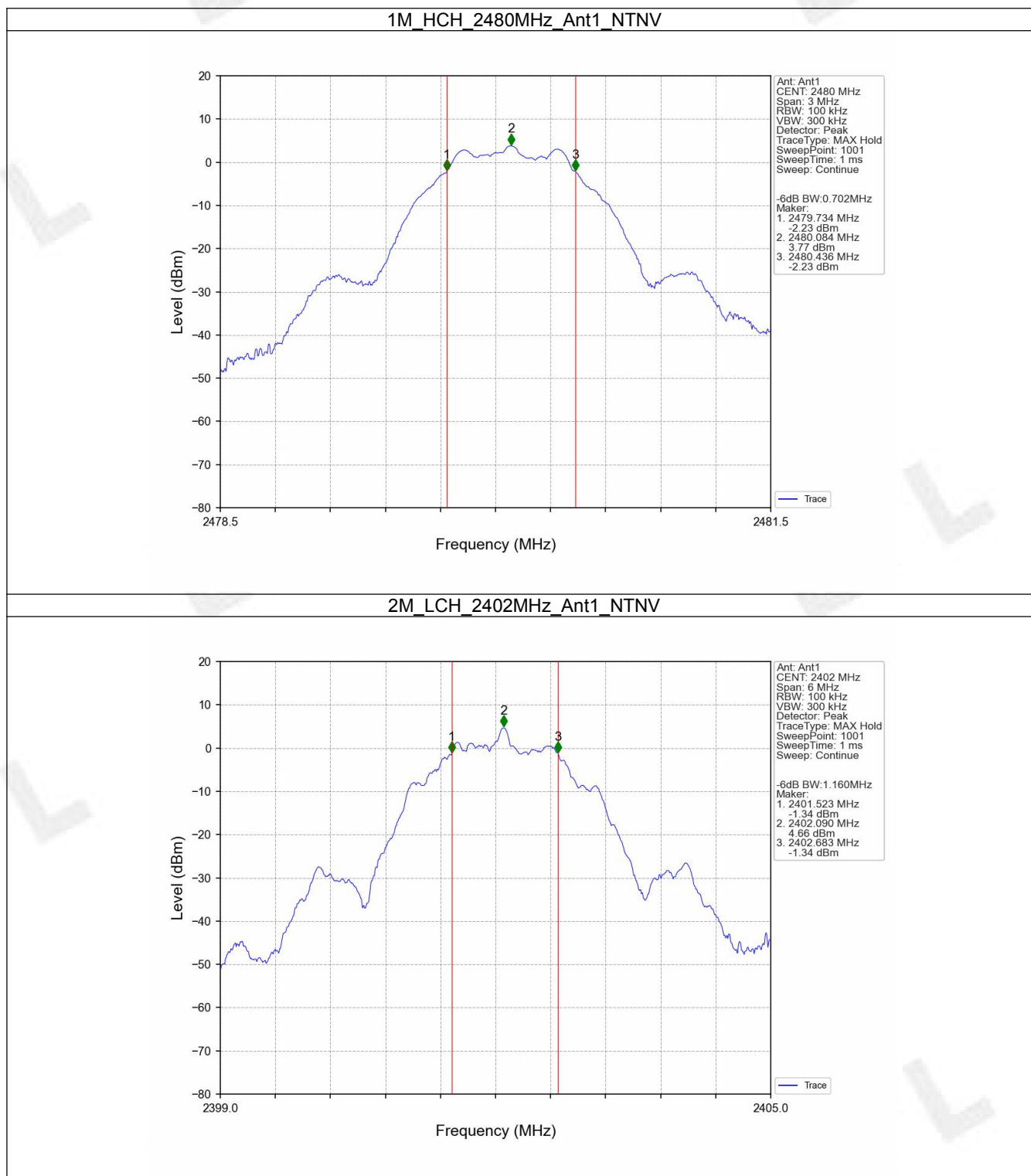


FCCID:2BSOH-WWA

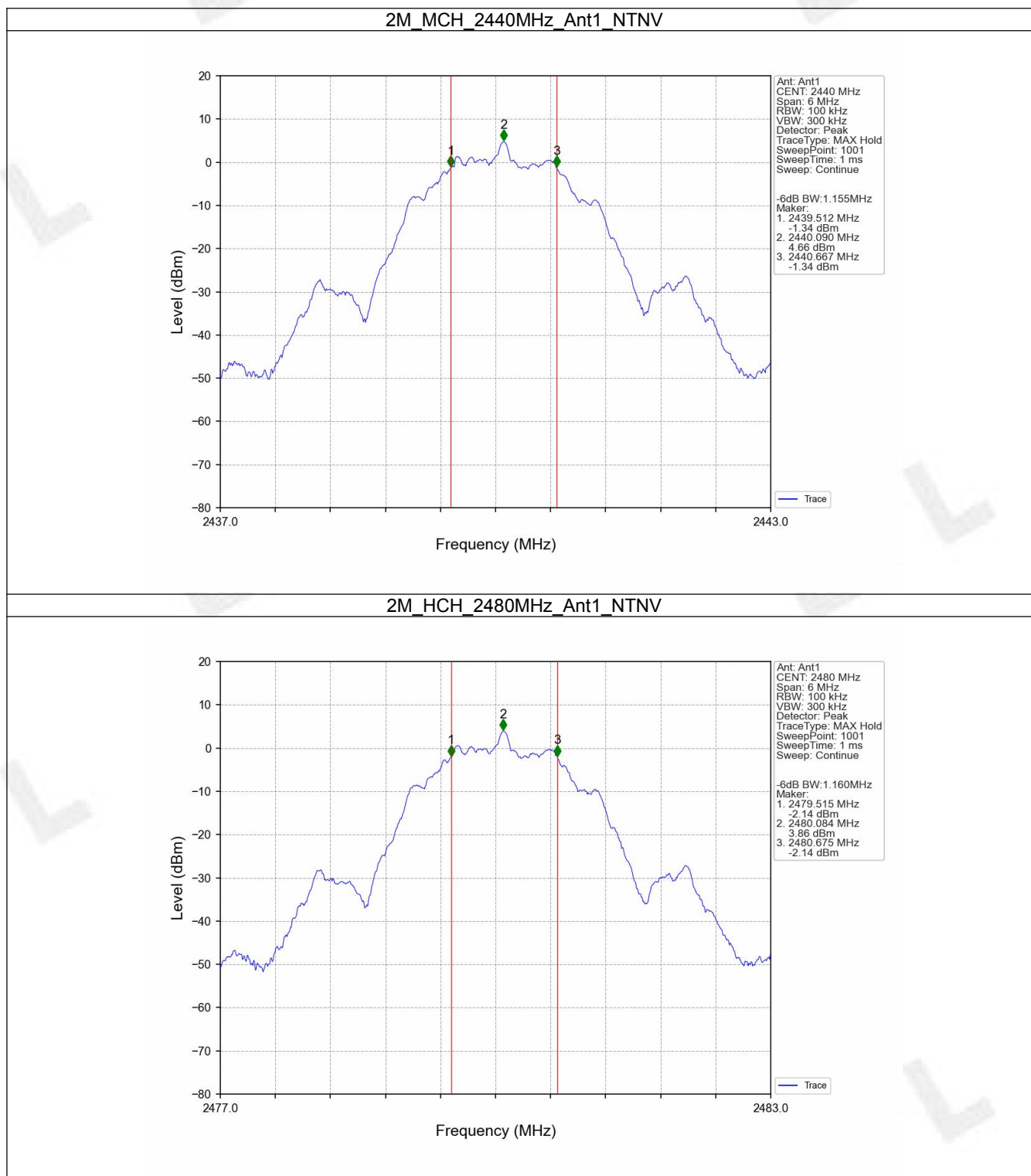
1.2.2 6dB BW



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2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

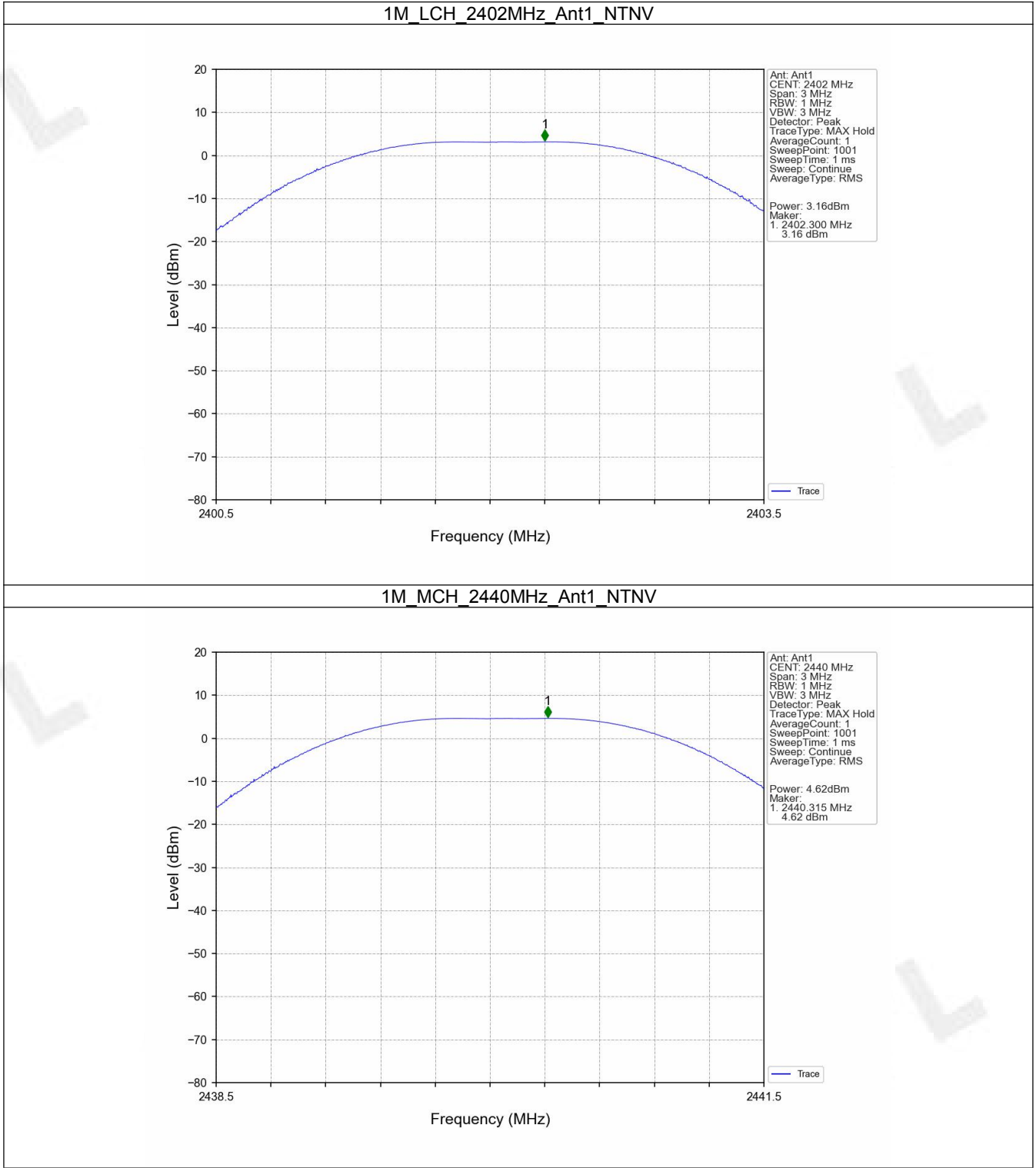
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	3.16	<=30	Pass
		2440	4.62	<=30	Pass
		2480	3.82	<=30	Pass
2M	SISO	2402	4.72	<=30	Pass
		2440	4.73	<=30	Pass
		2480	3.88	<=30	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;

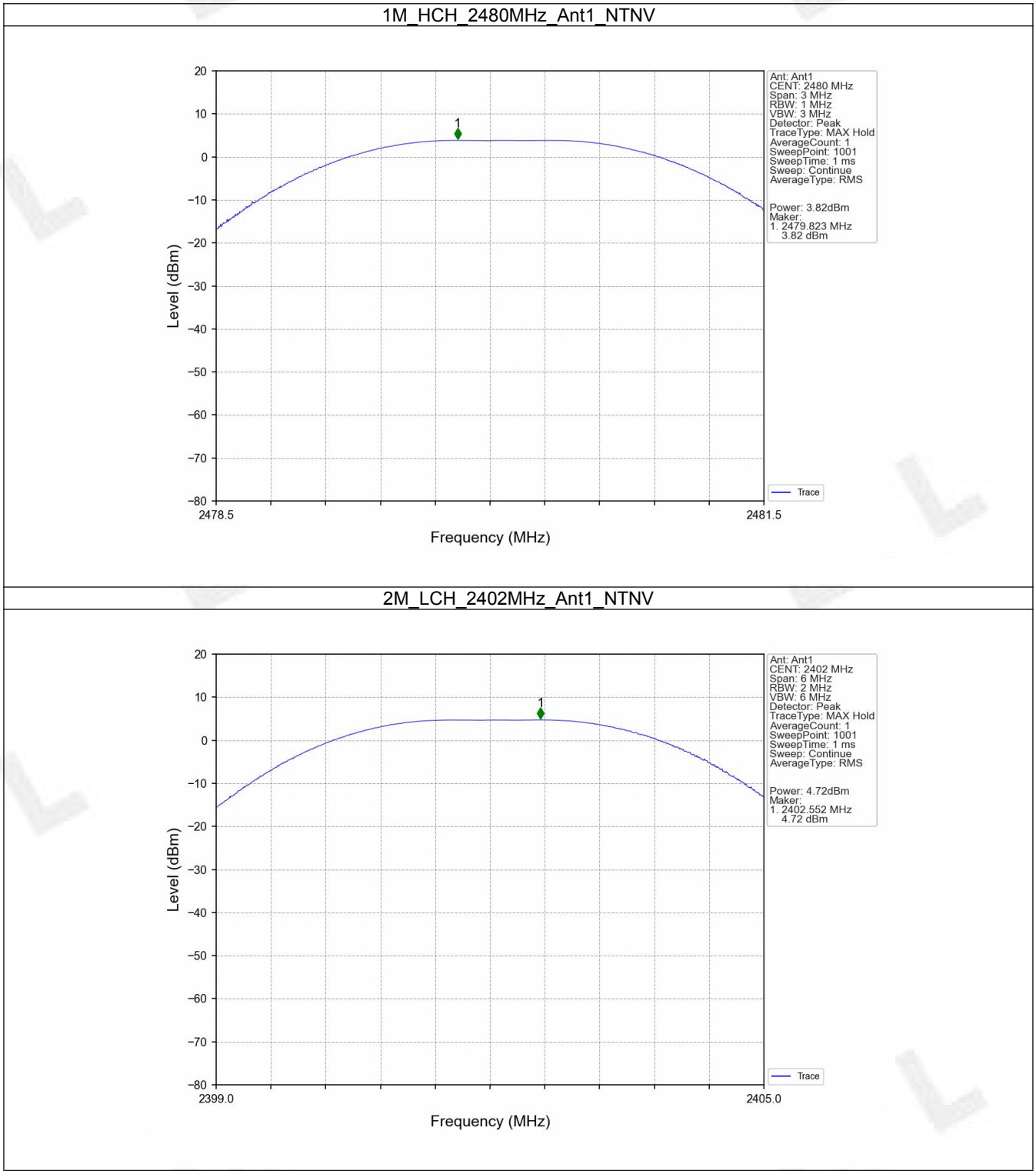
FCCID:2BSOH-WWA

2.2 Test Graph

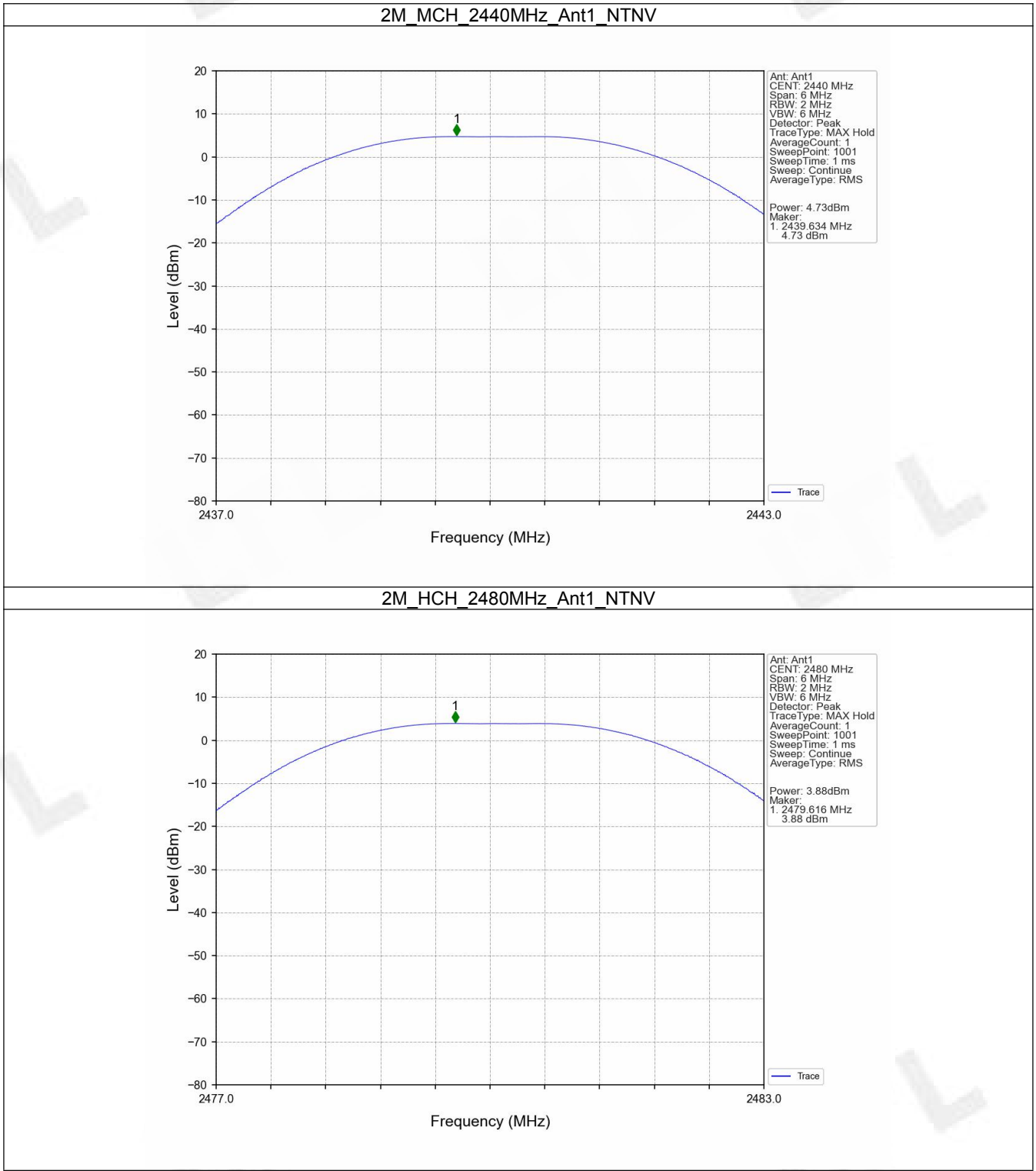
2.2.1 Power



FCCID:2BSOH-WWA



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3. Maximum Power Spectral Density

3.1 Test Result

3.1.1 PSD

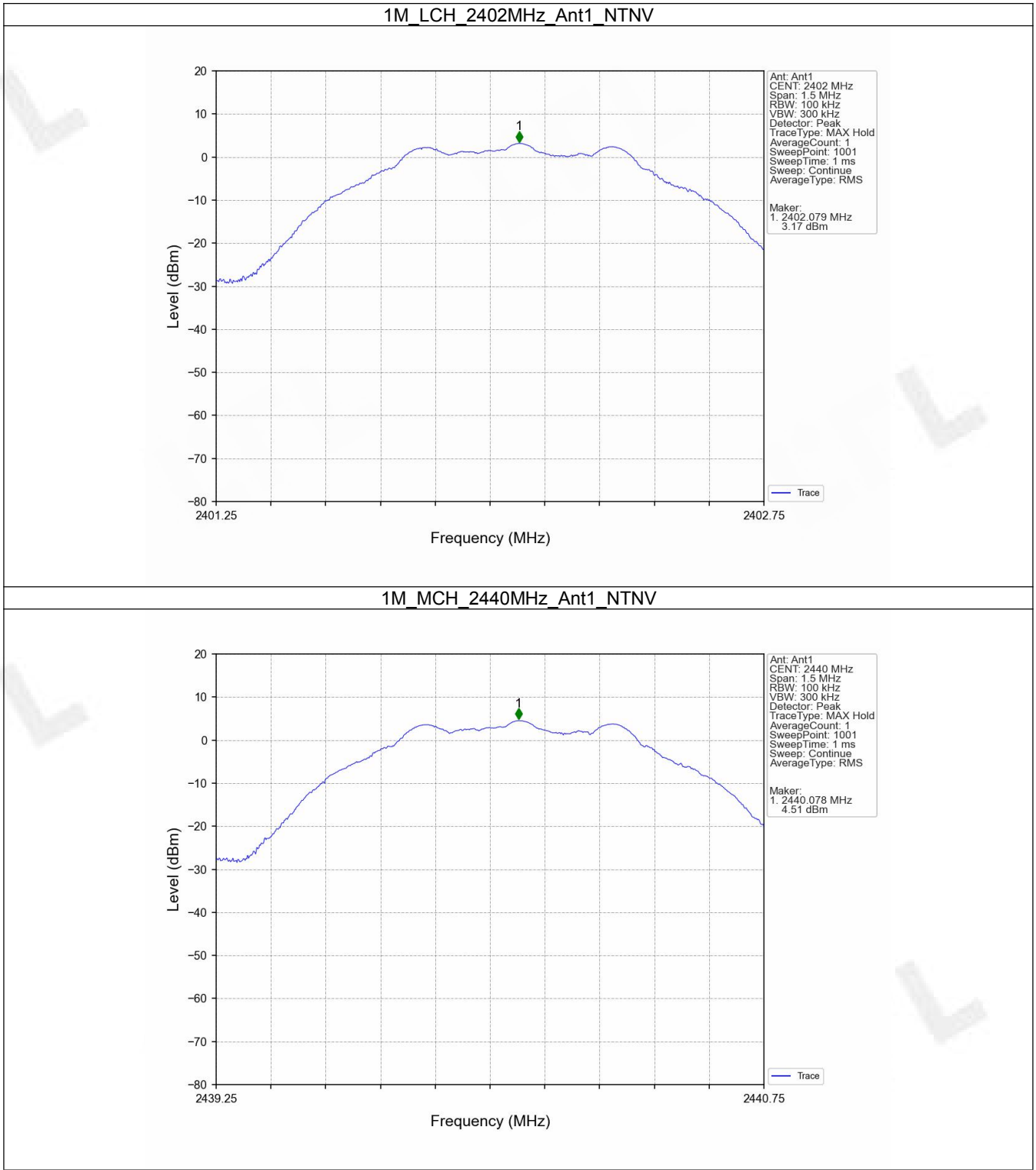
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	3.17dBm/100kHz	<=8	Pass
		2440	4.51dBm/100kHz	<=8	Pass
		2480	3.72dBm/100kHz	<=8	Pass
2M	SISO	2402	4.64dBm/100kHz	<=8	Pass
		2440	4.62dBm/100kHz	<=8	Pass
		2480	3.79dBm/100kHz	<=8	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;

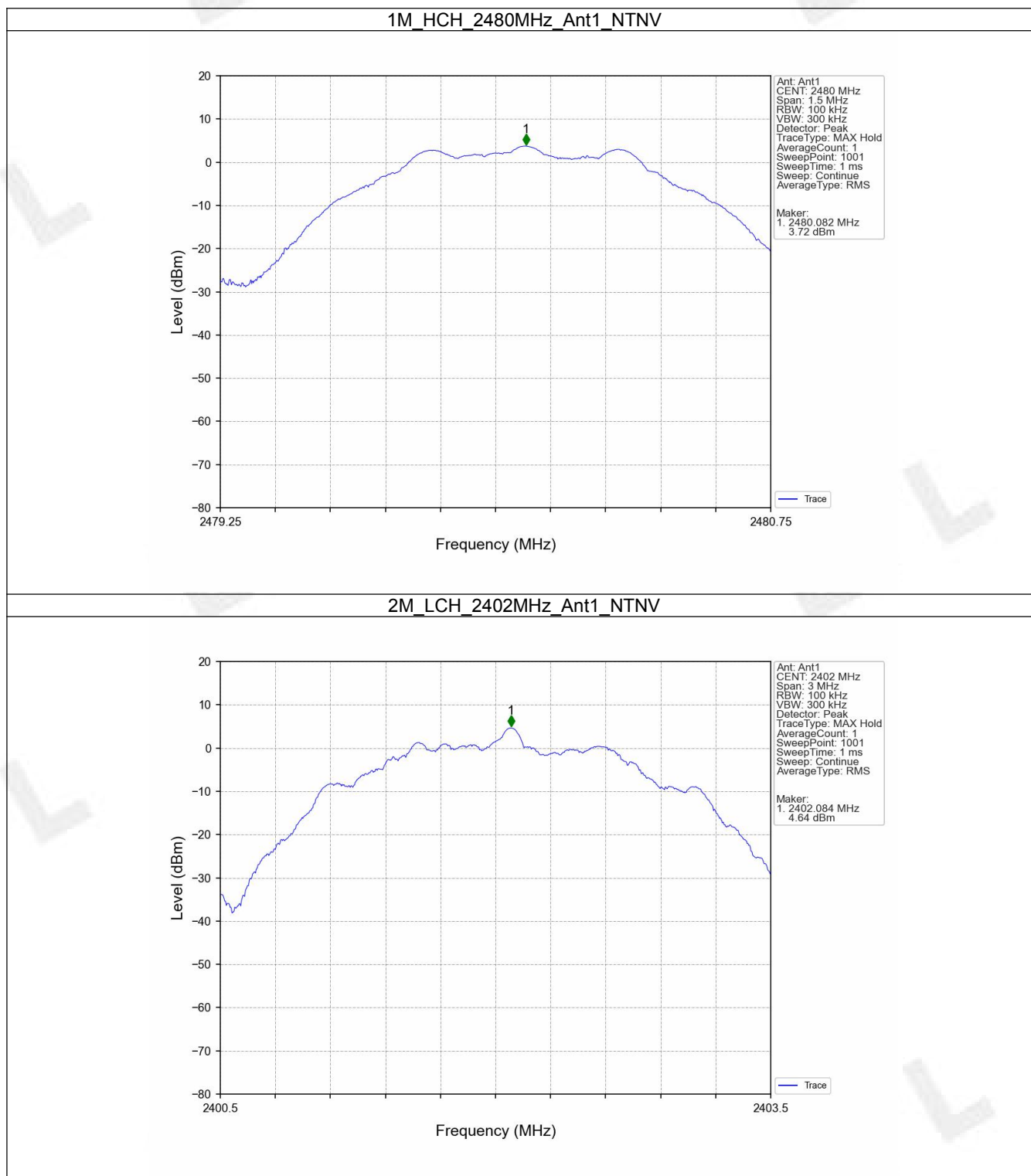
FCCID:2BSOH-WWA

3.2 Test Graph

3.2.1 PSD

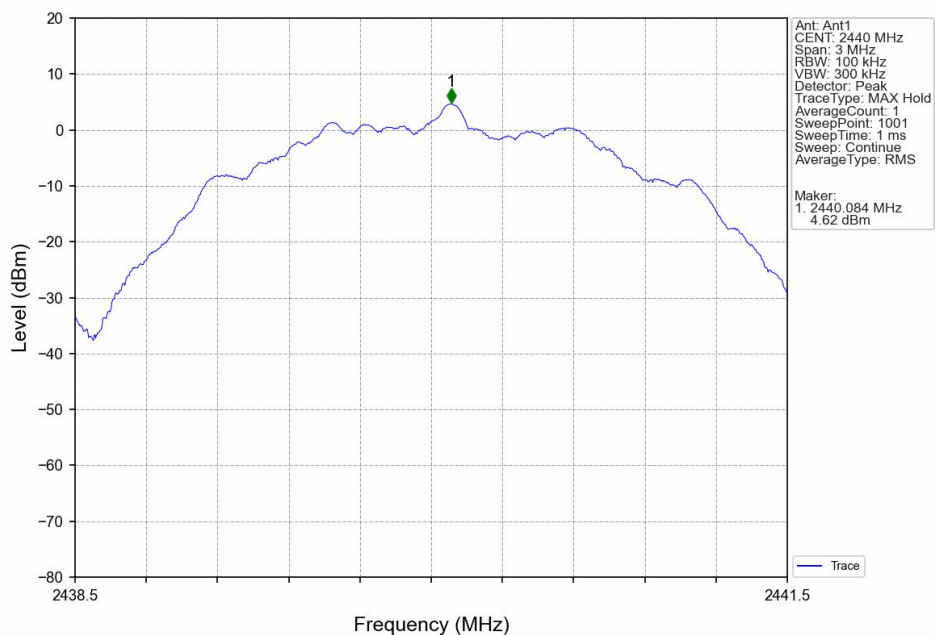


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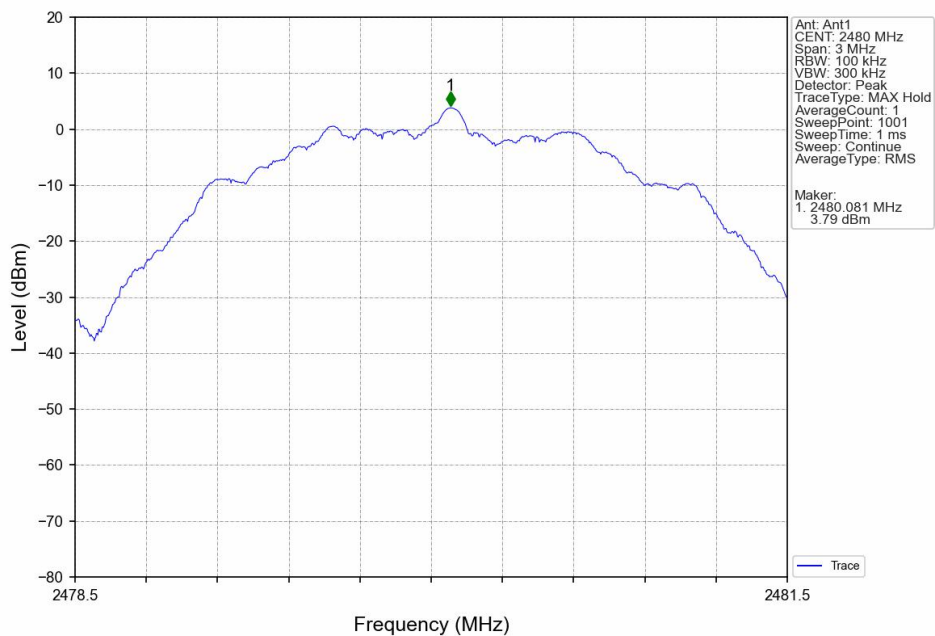


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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Test Result

4.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	3.29
		2440	1	4.56
		2480	1	3.72
2M	SISO	2402	1	4.65
		2440	1	4.64
		2480	1	3.82

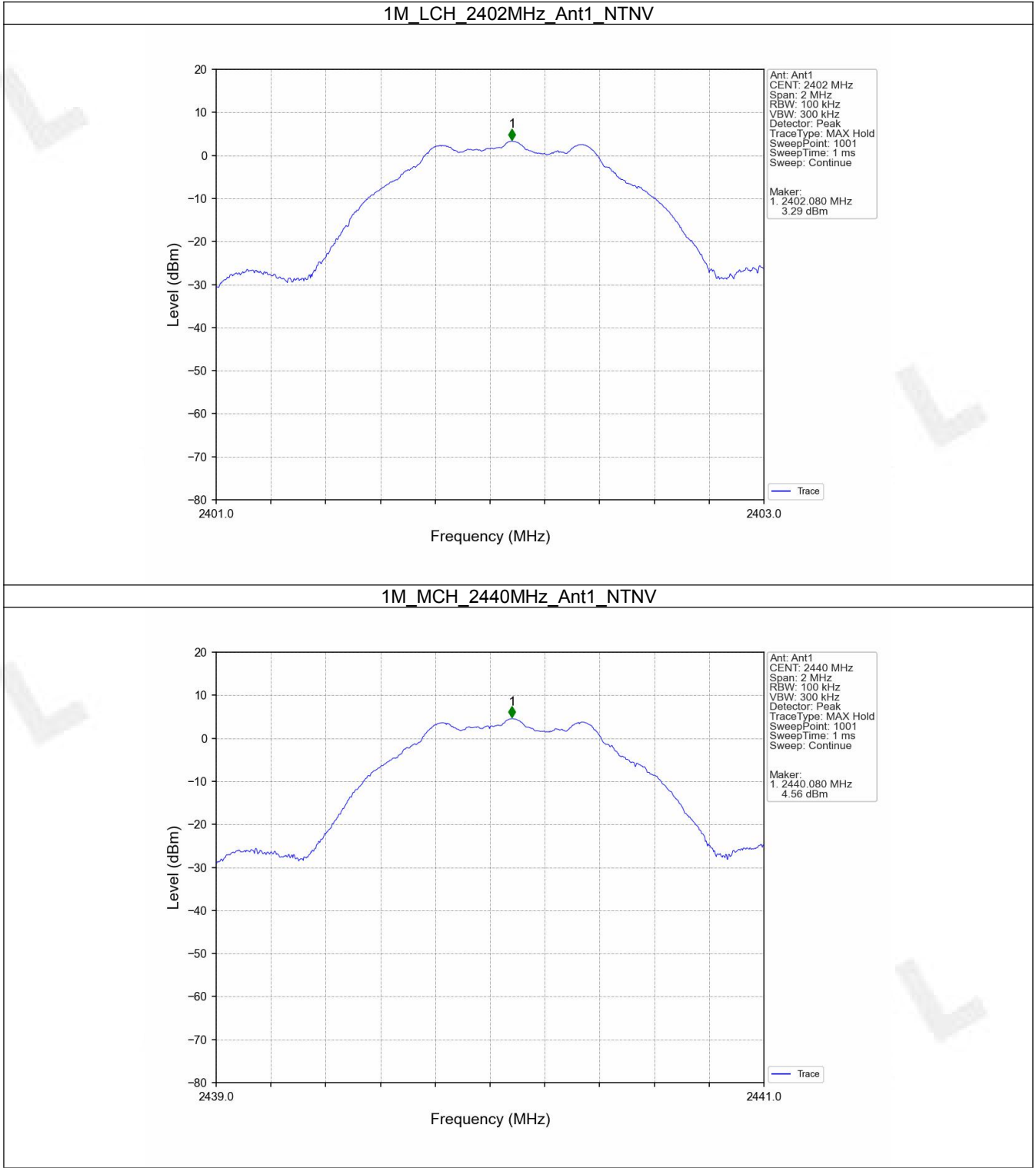
4.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	4.56	-15.44	Pass
		2440	1	4.56	-15.44	Pass
		2480	1	4.56	-15.44	Pass
2M	SISO	2402	1	4.65	-15.35	Pass
		2440	1	4.65	-15.35	Pass
		2480	1	4.65	-15.35	Pass

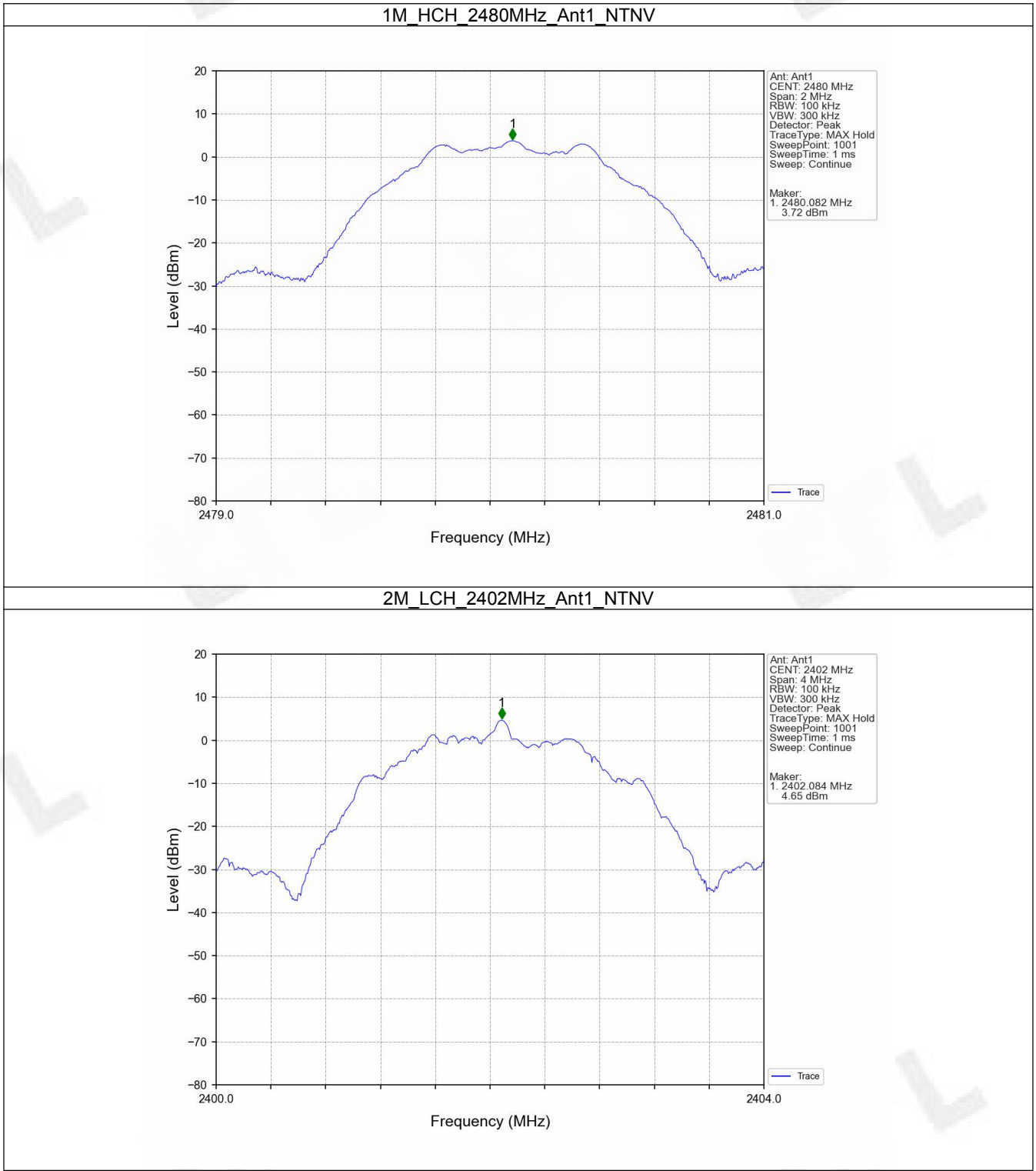
FCCID:2BSOH-WWA

4.2 Test Graph

4.2.1 Ref

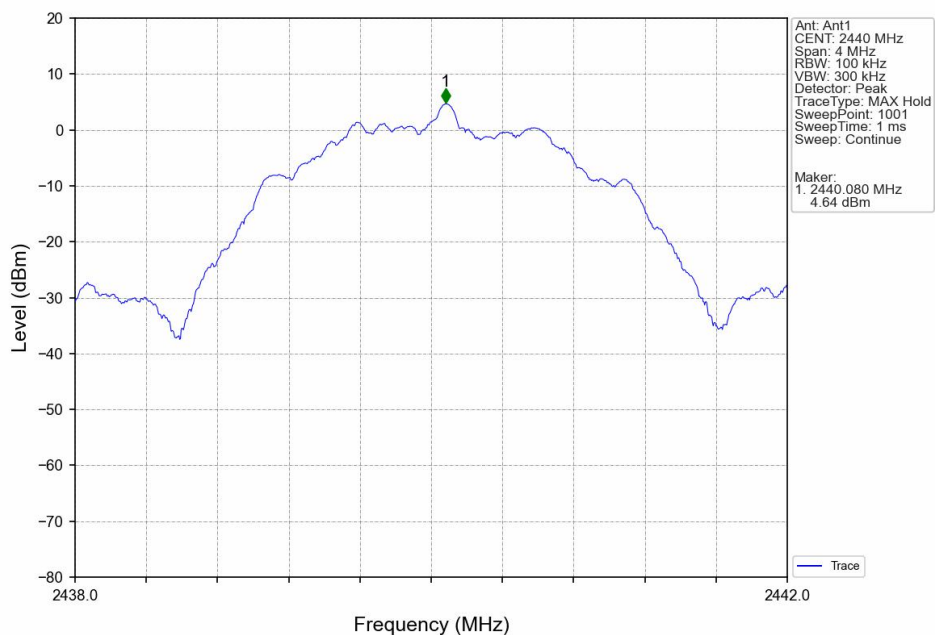


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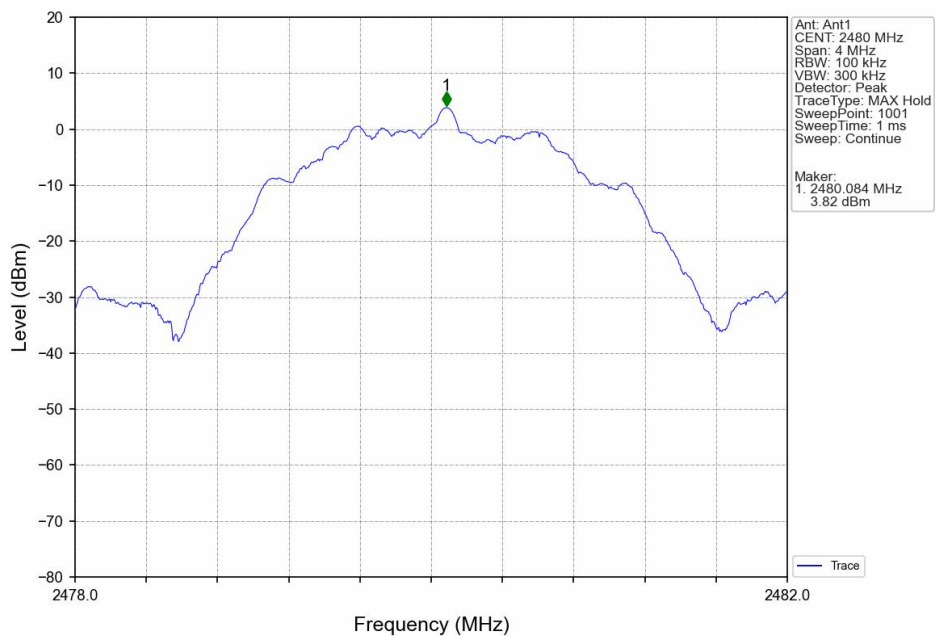


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2M_MCH_2440MHz_Ant1_NTNV

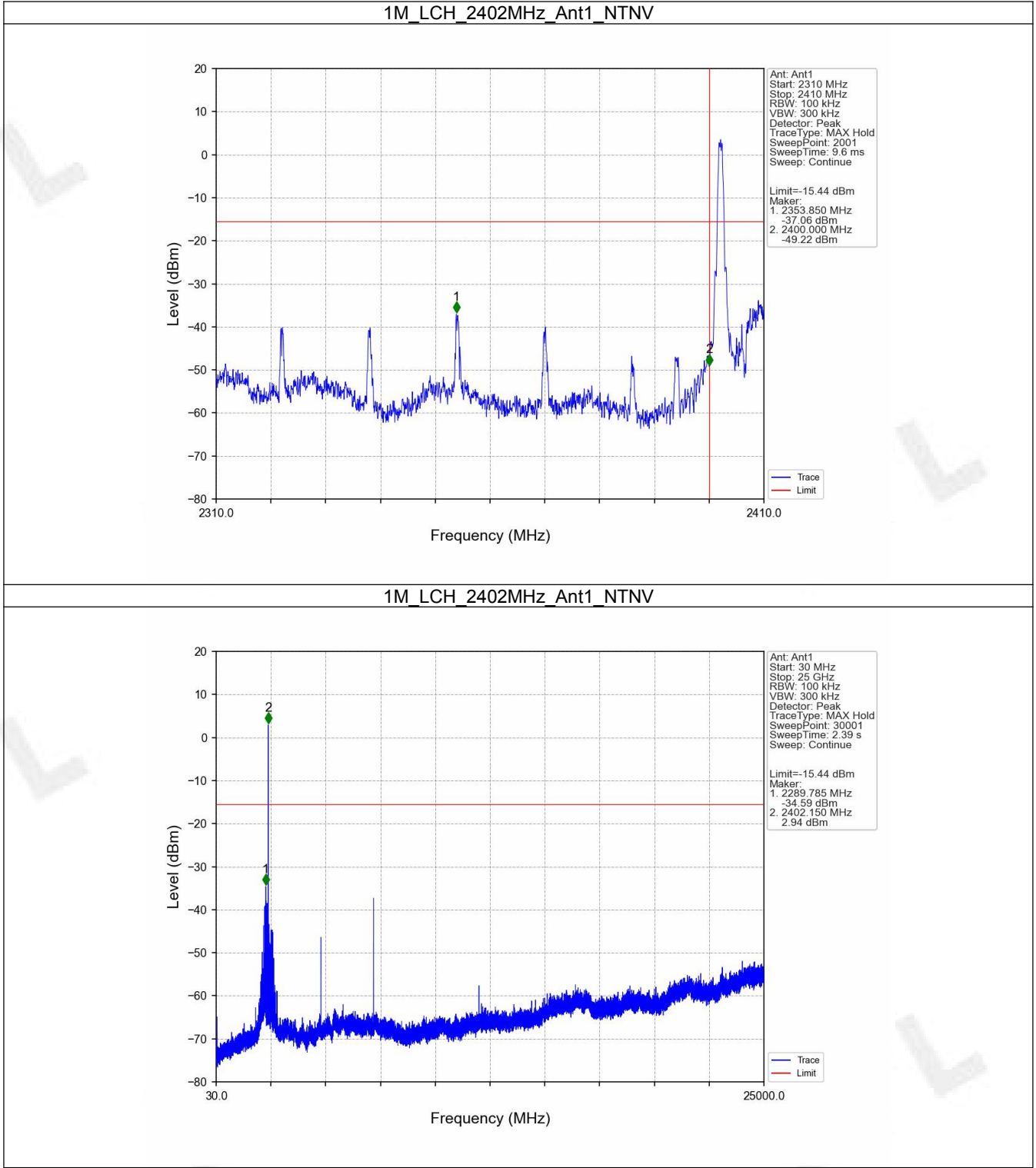


2M_HCH_2480MHz_Ant1_NTNV

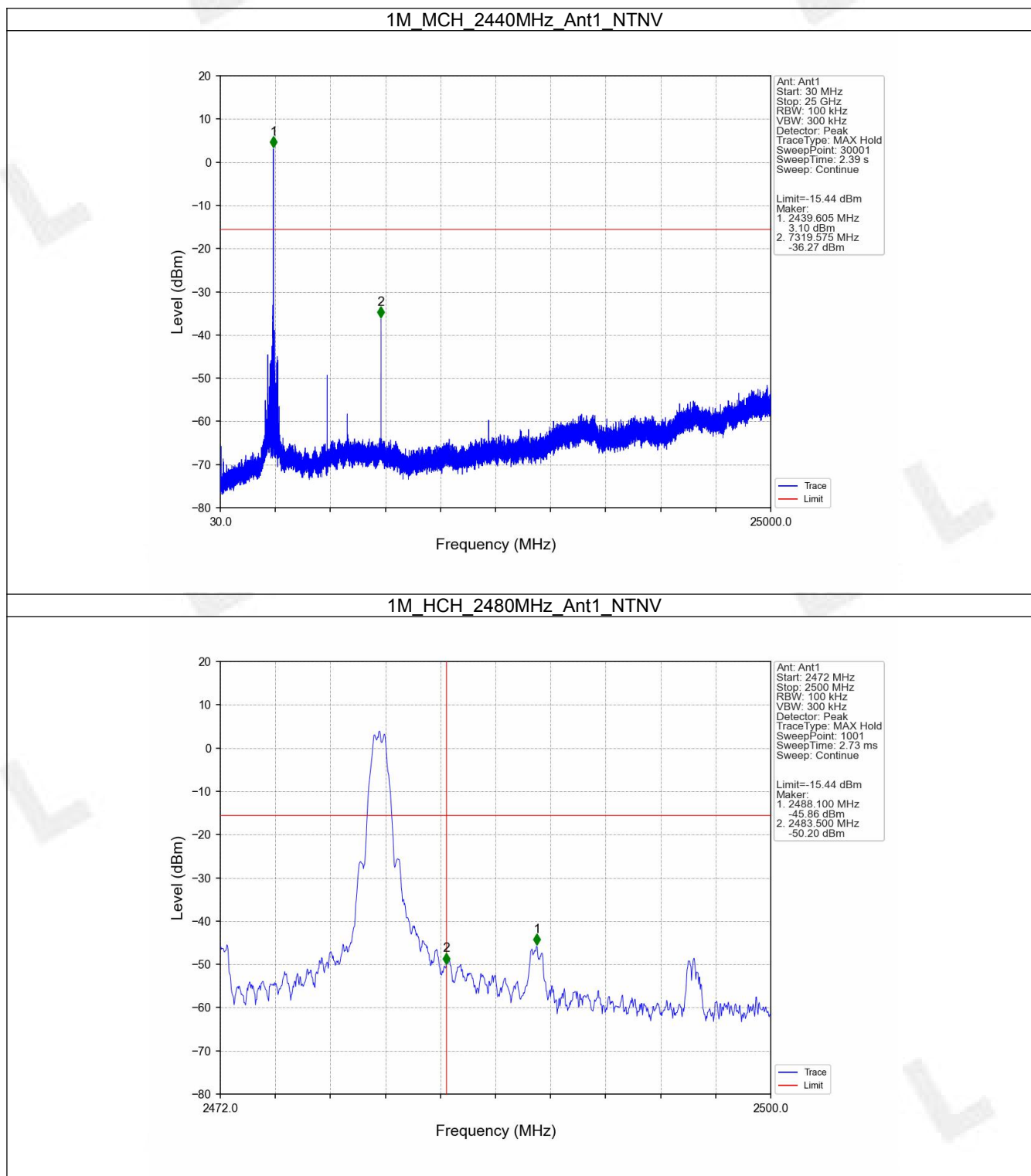


FCCID:2BSOH-WWA

4.2.2 CSE

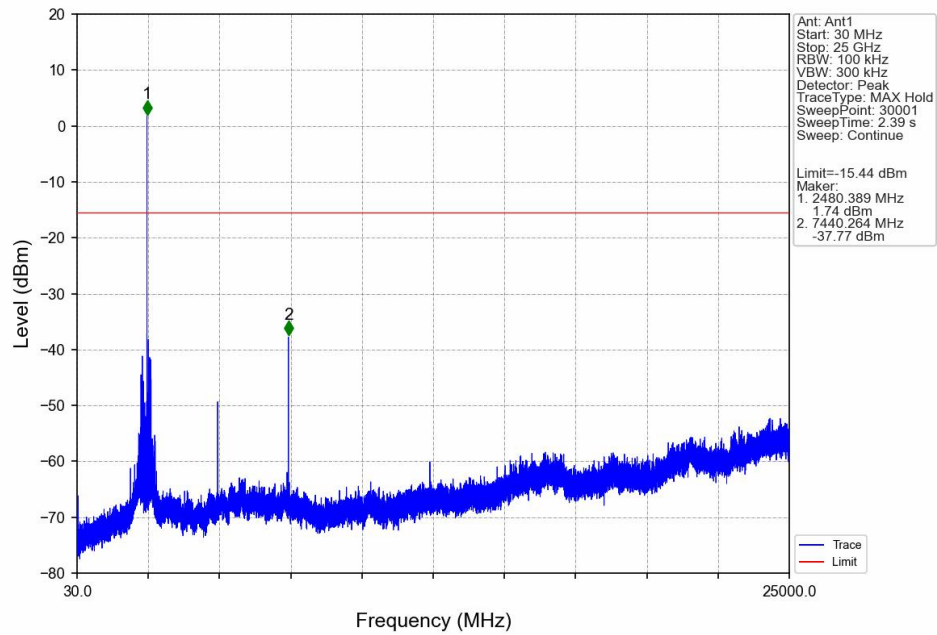


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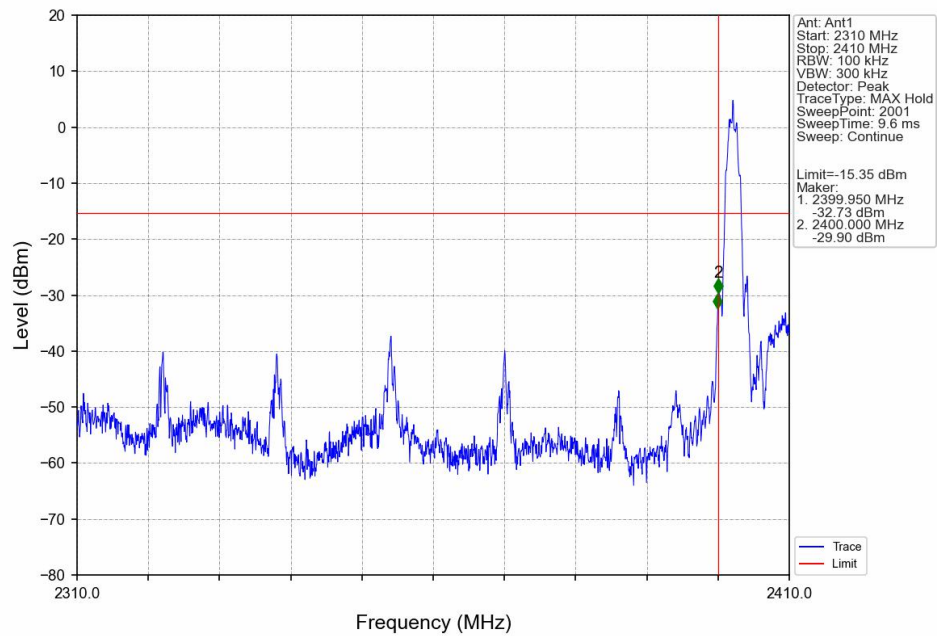


FCCID:2BSOH-WWA

1M_HCH_2480MHz_Ant1_NTNV

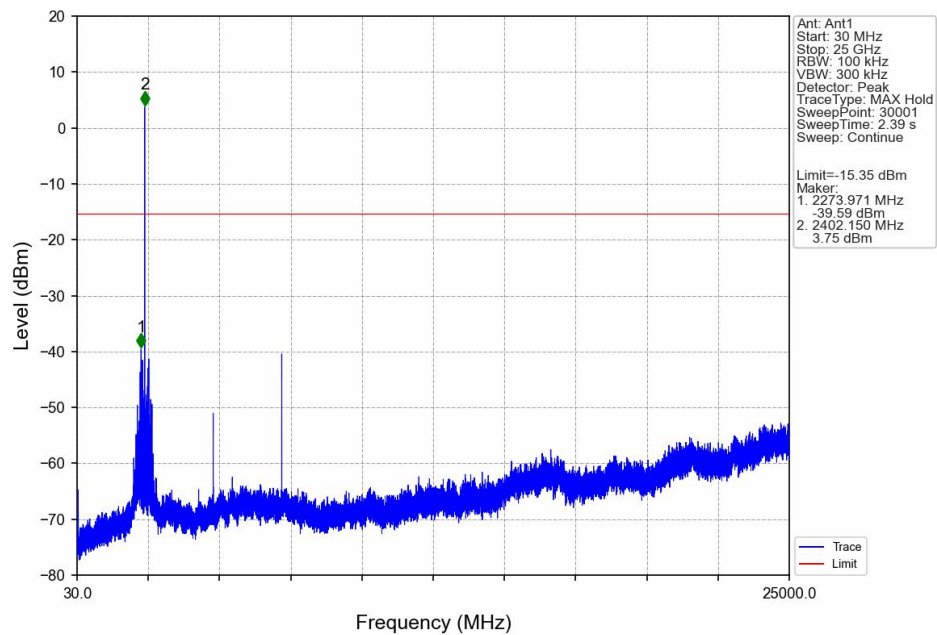


2M_LCH_2402MHz_Ant1_NTNV

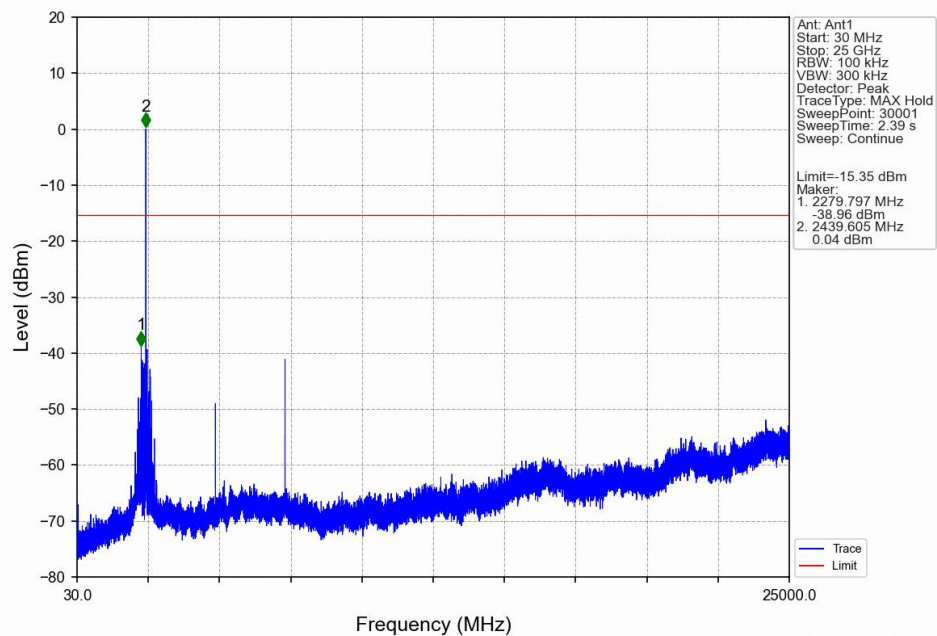


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2M_LCH_2402MHz_Ant1_NTNV

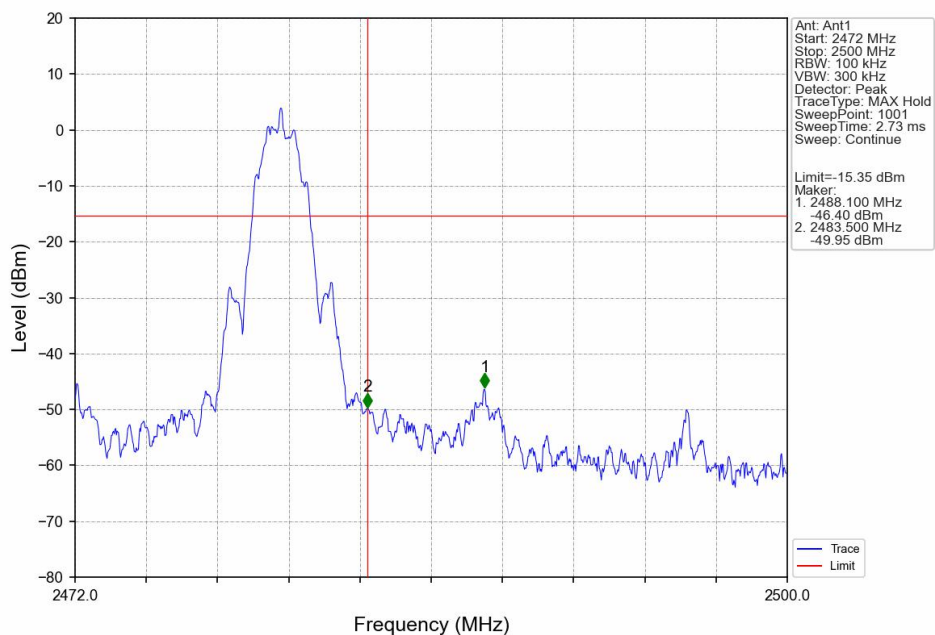


2M_MCH_2440MHz_Ant1_NTNV



FCCID:2BSOH-WWA

2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV

