

Appendix: Bluetooth LE

Content

1. Duty Cycle	4
1.1 Test Result	4
1.1.1 Ant1	4
1.2 Test Graph	5
1.2.1 Ant1	5
2. Bandwidth	7
2.1 Test Result	7
2.1.1 OBW	7
2.1.2 6dB BW	7
2.2 Test Graph	8
2.2.1 OBW	8
2.2.2 6dB BW	10
3. Maximum Conducted Output Power	12
3.1 Test Result	12
3.1.1 Power	12
3.2 Test Graph	13
3.2.1 Power	13
4. Maximum Power Spectral Density	15
4.1 Test Result	15
4.1.1 PSD	15
4.2 Test Graph	16
4.2.1 PSD	16
5. Unwanted Emissions In Non-restricted Frequency Bands	18
5.1 Test Result	18

5.1.1 Ref	18
5.1.2 CSE	18
5.2 Test Graph	19
5.2.1 Ref	19
5.2.2 CSE	21

1. Duty Cycle

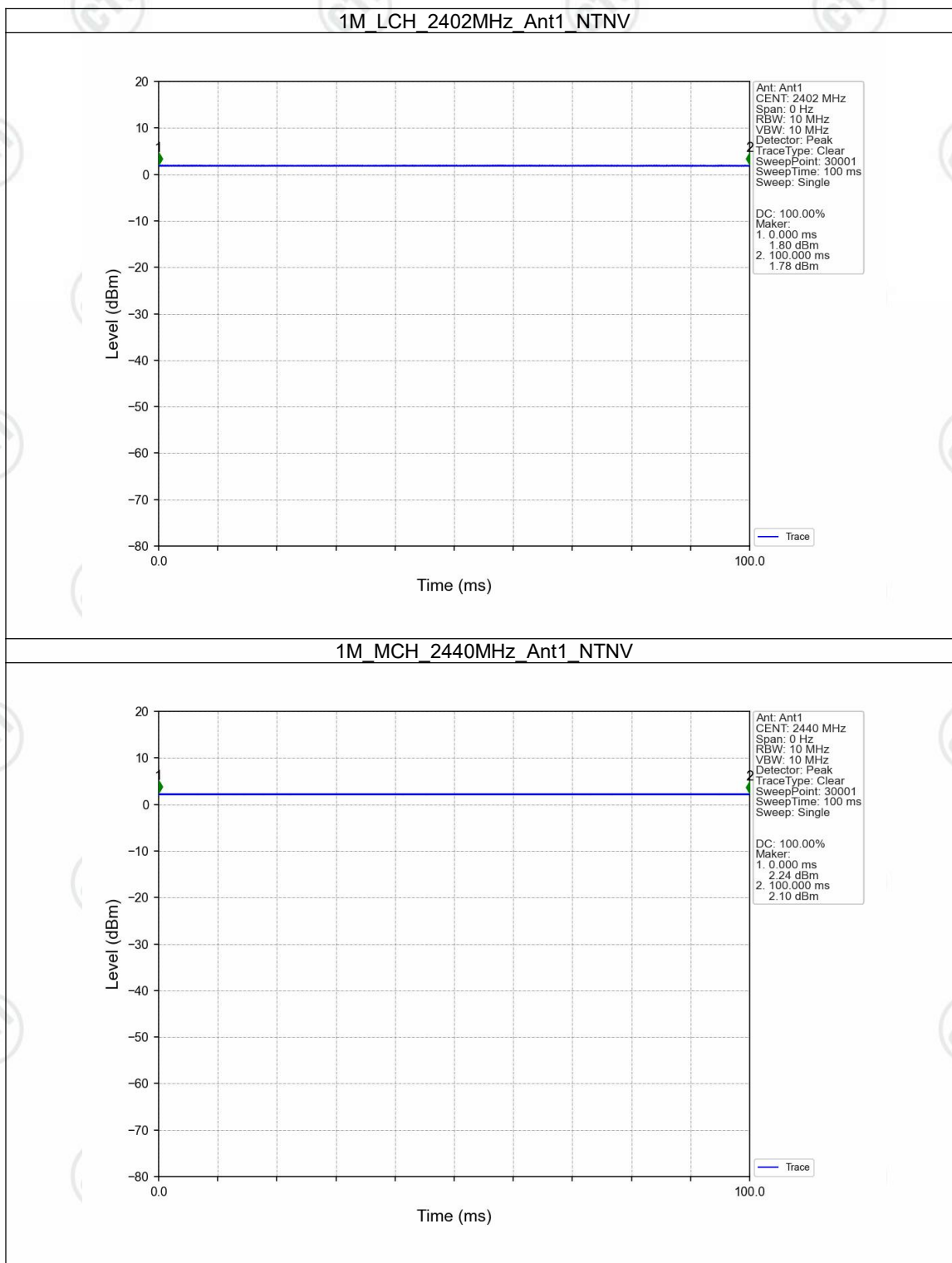
1.1 Test Result

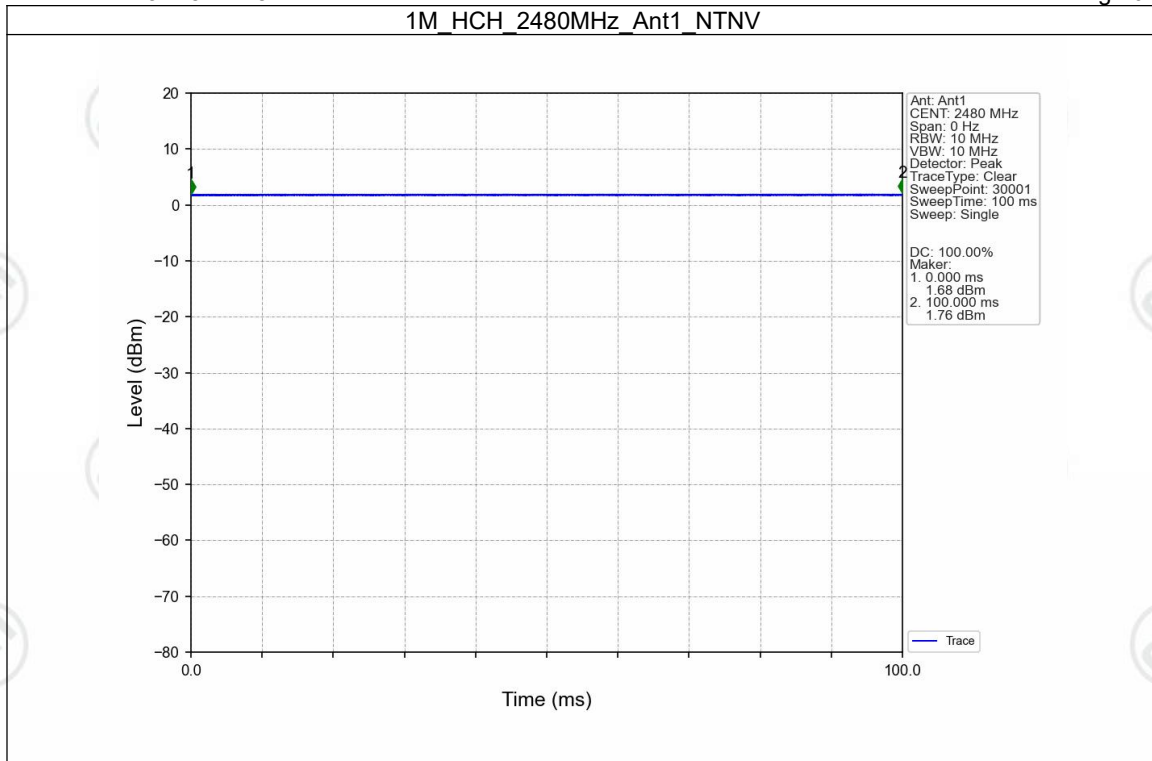
1.1.1 Ant1

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

1.2 Test Graph

1.2.1 Ant1





2. Bandwidth

2.1 Test Result

2.1.1 OBW

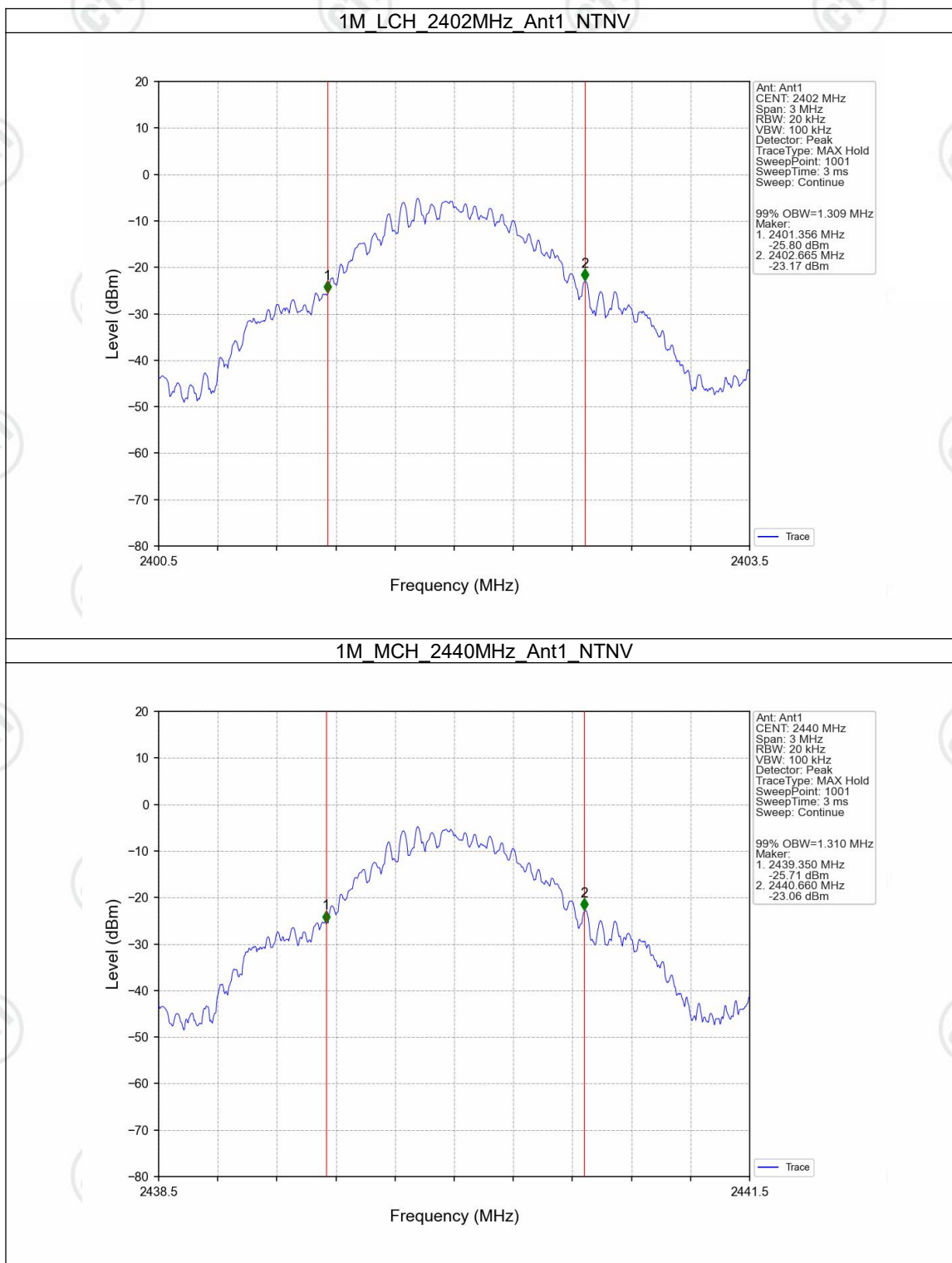
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.309	/	Pass
		2440	1	1.310	/	Pass
		2480	1	1.319	/	Pass

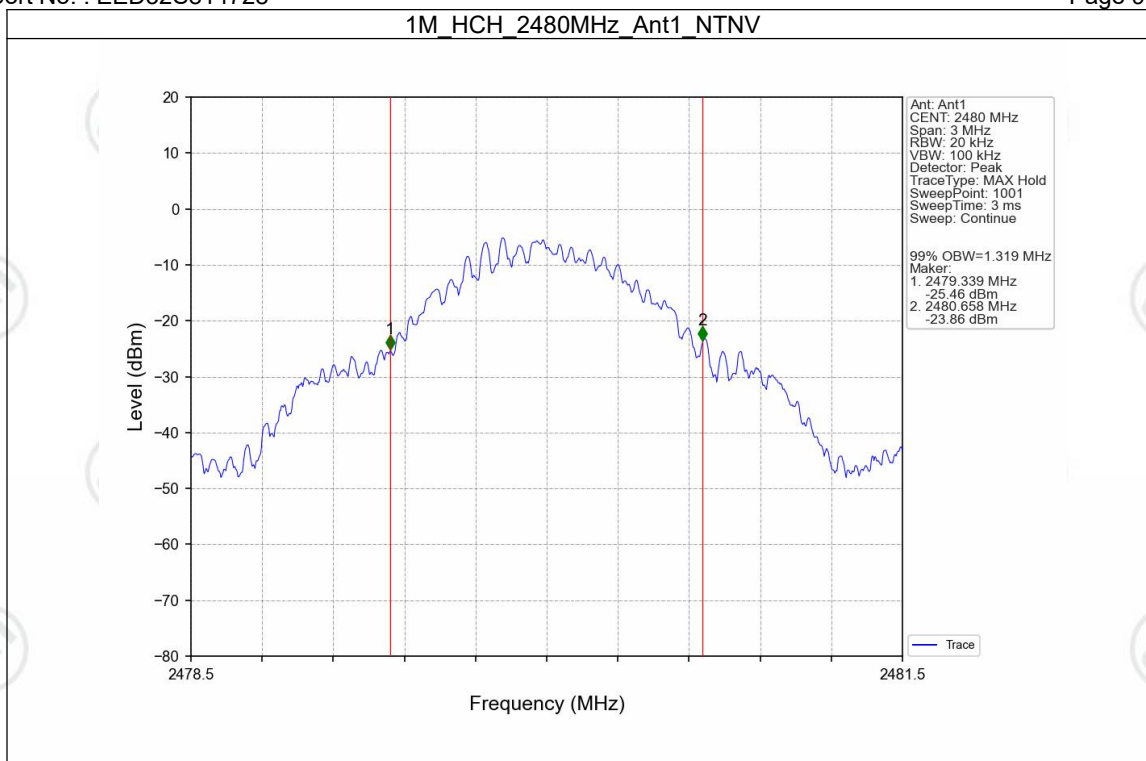
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.734	≥ 0.5	Pass
		2440	1	0.743	≥ 0.5	Pass
		2480	1	0.739	≥ 0.5	Pass

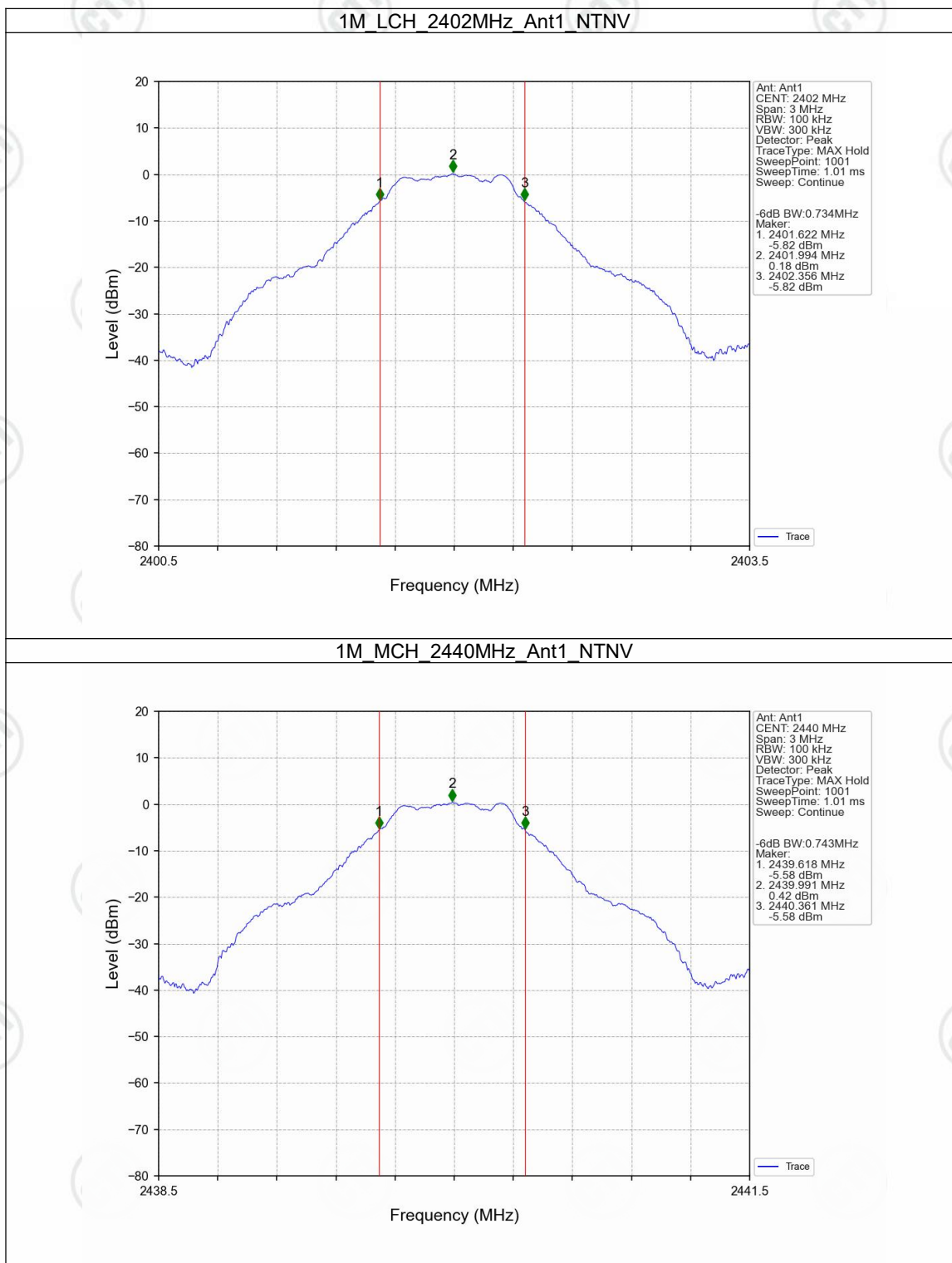
2.2 Test Graph

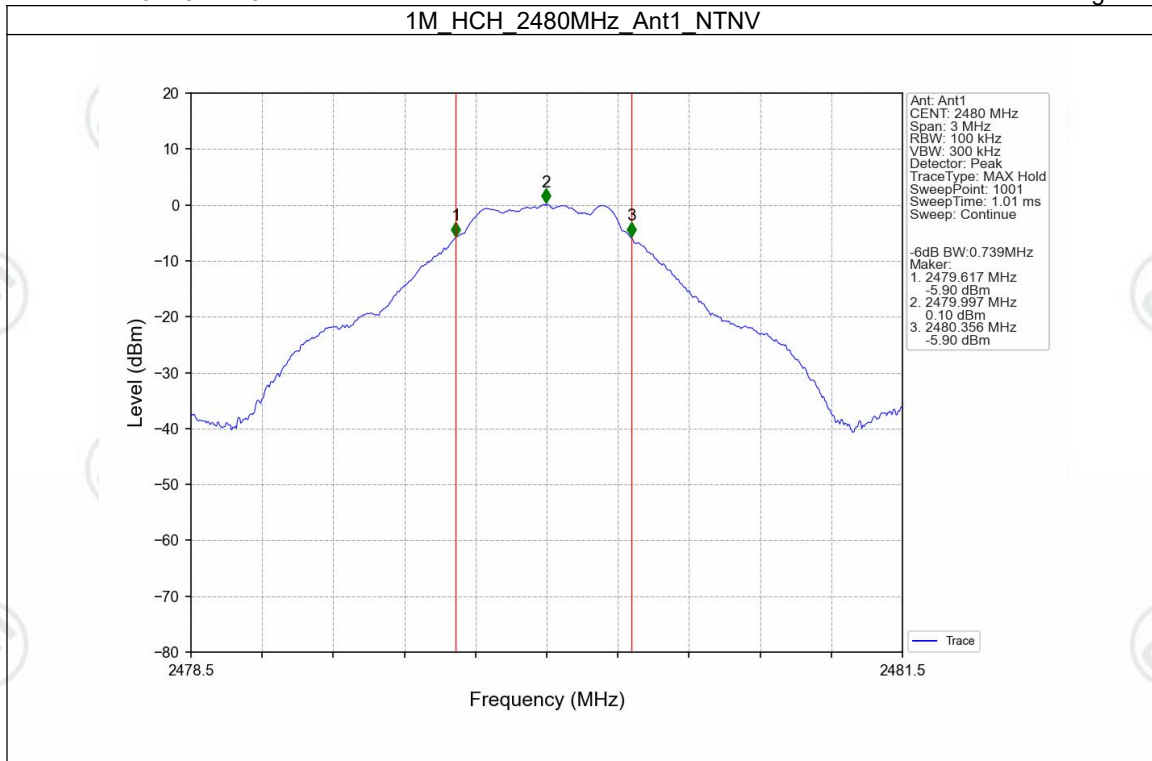
2.2.1 OBW





2.2.2 6dB BW





3. Maximum Conducted Output Power

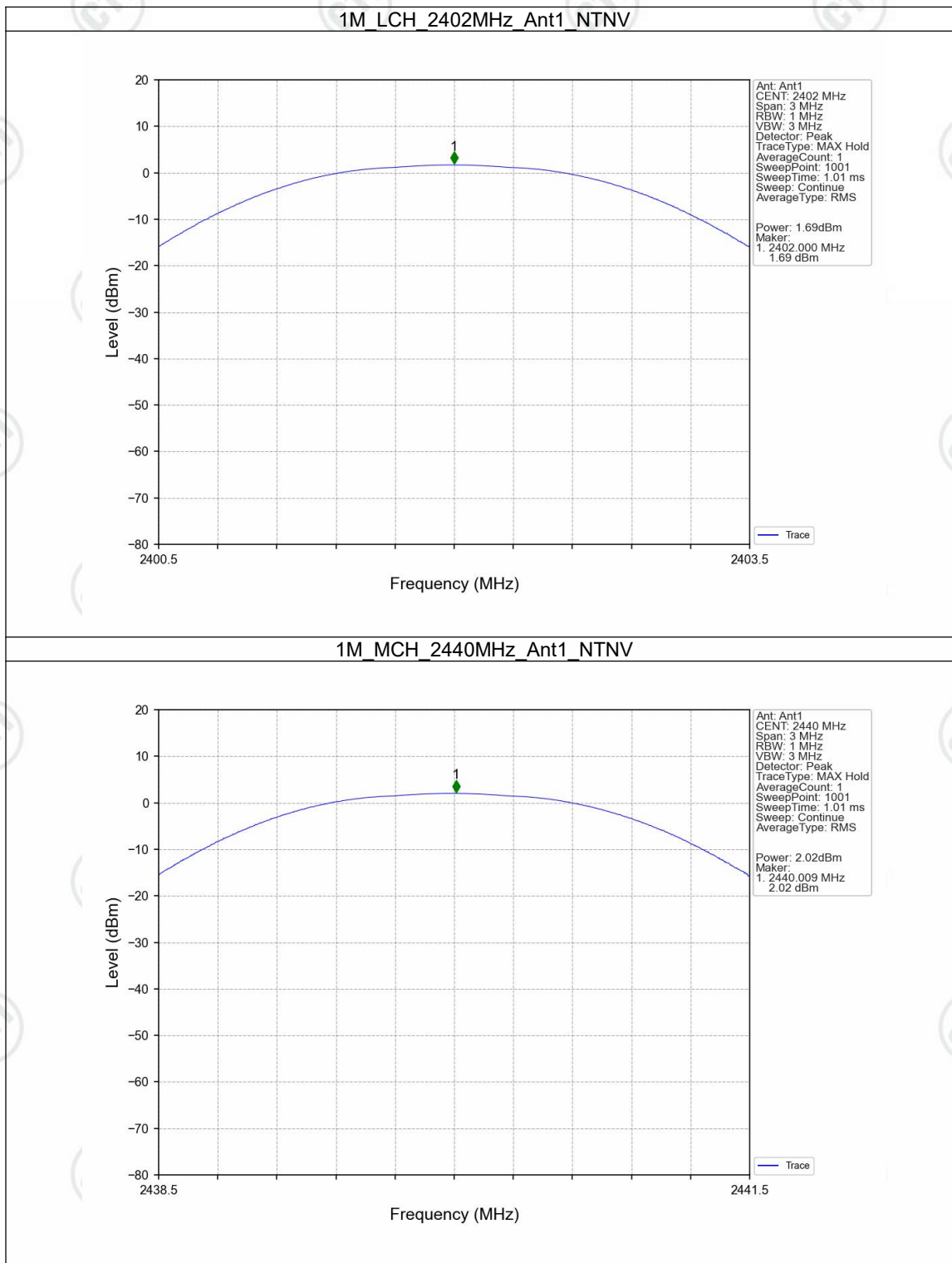
3.1 Test Result

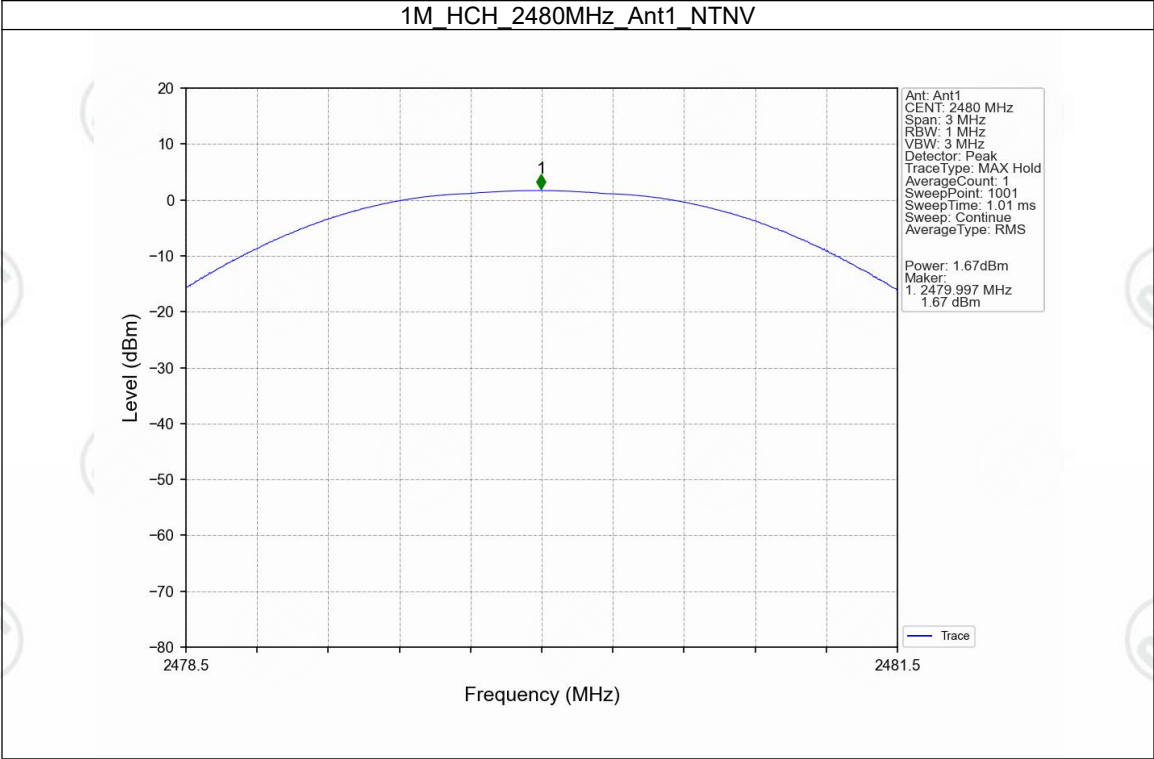
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.69	<=30	Pass
		2440	2.02	<=30	Pass
		2480	1.67	<=30	Pass
Note1: Antenna Gain: Ant1: 2.58dBi;					

3.2 Test Graph

3.2.1 Power





4. Maximum Power Spectral Density

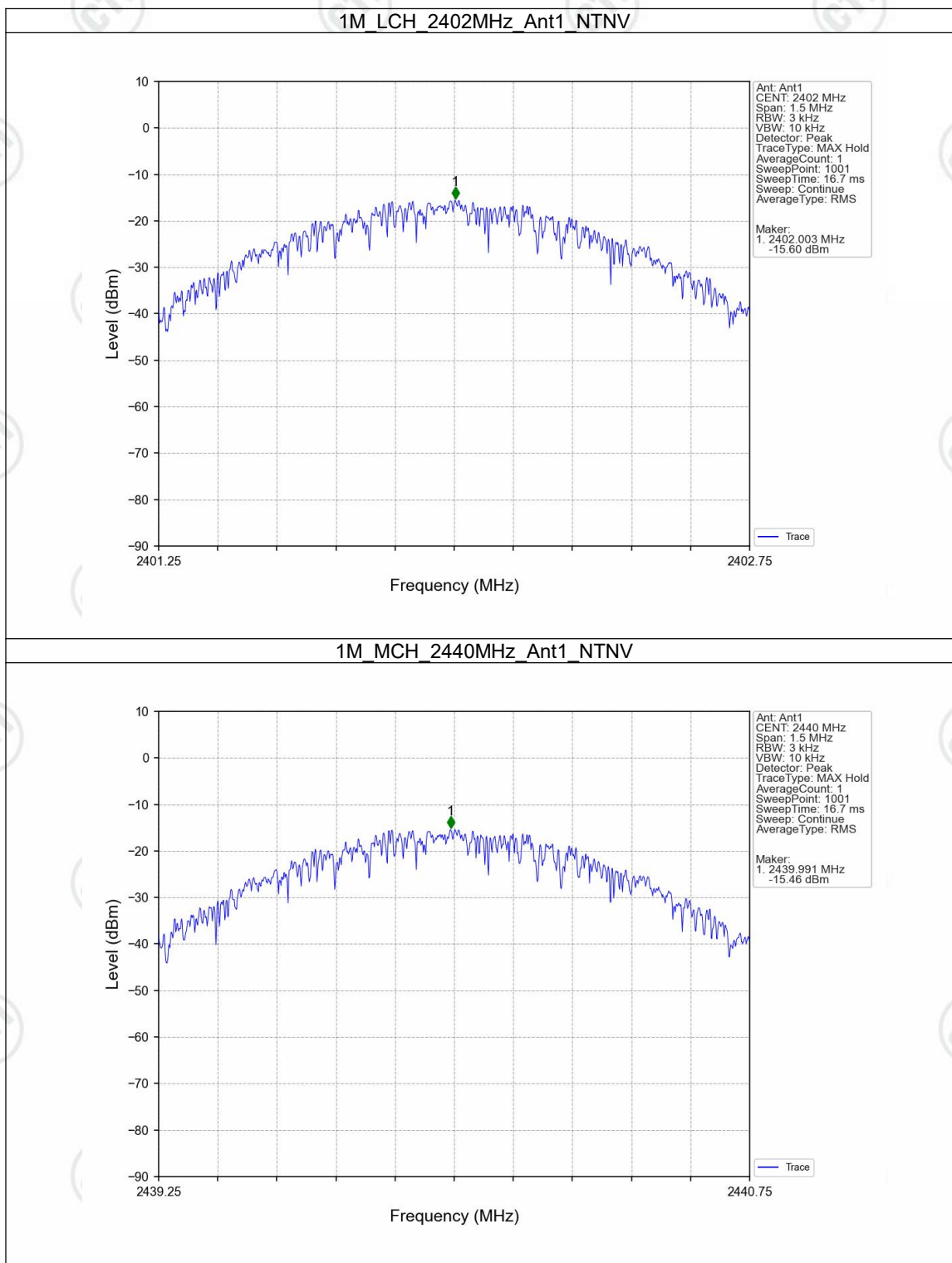
4.1 Test Result

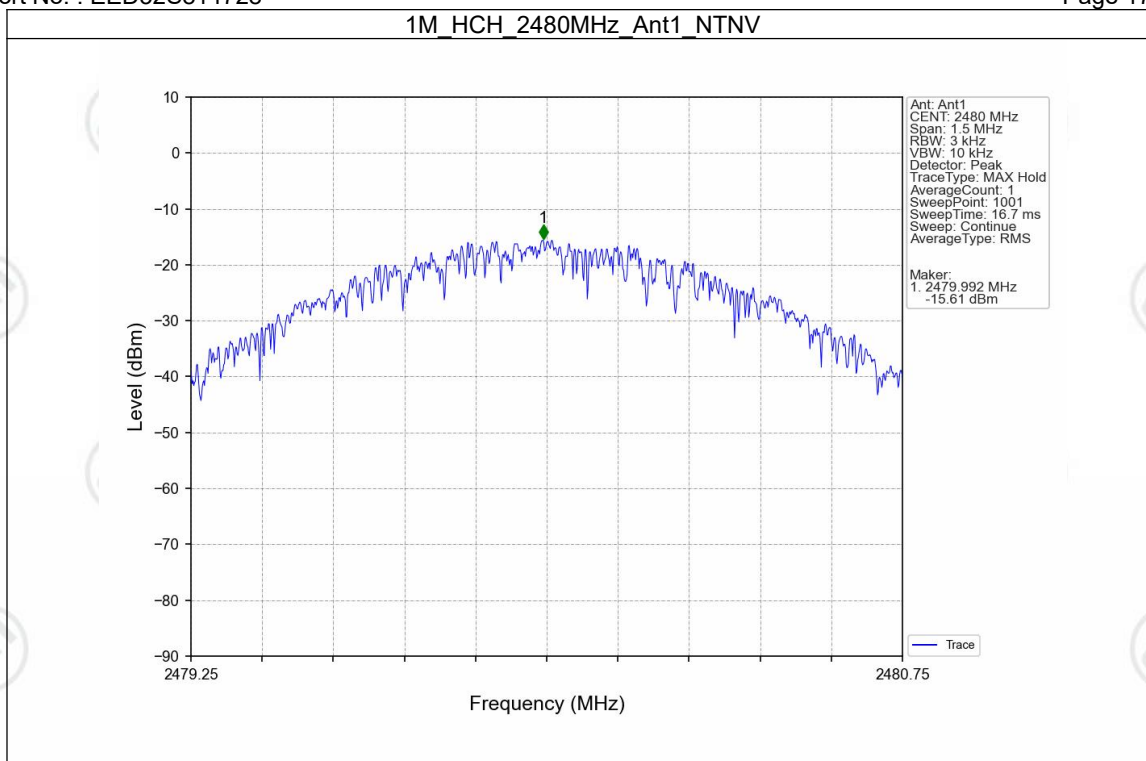
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit(dBm/3 kHz)	
1M	SISO	2402	-15.60dBm/3kHz	<=8	Pass
		2440	-15.46dBm/3kHz	<=8	Pass
		2480	-15.61dBm/3kHz	<=8	Pass
Note1: Antenna Gain: Ant1: 2.58dBi;					

4.2 Test Graph

4.2.1 PSD





5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

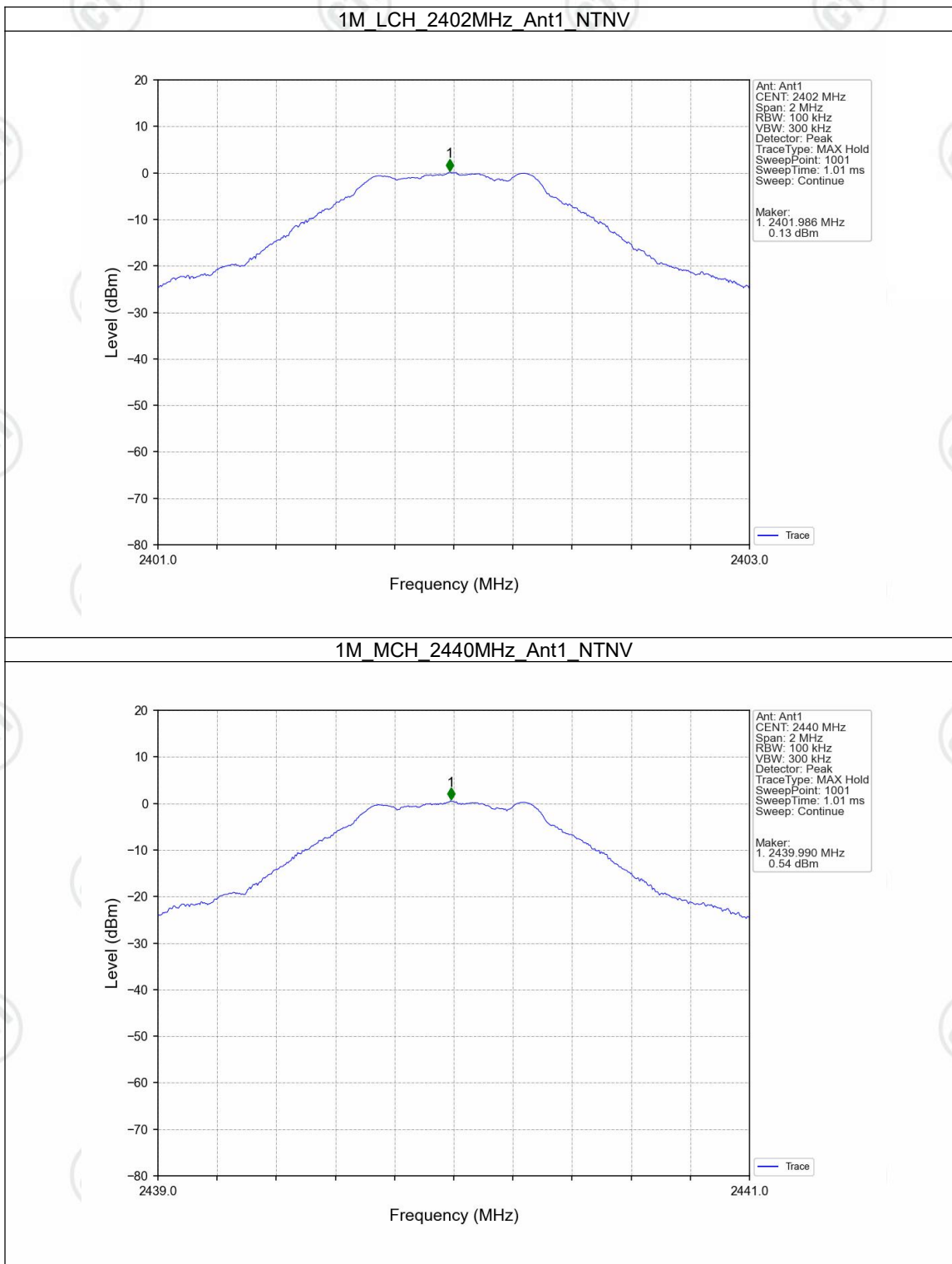
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	0.13
		2440	1	0.54
		2480	1	0.16

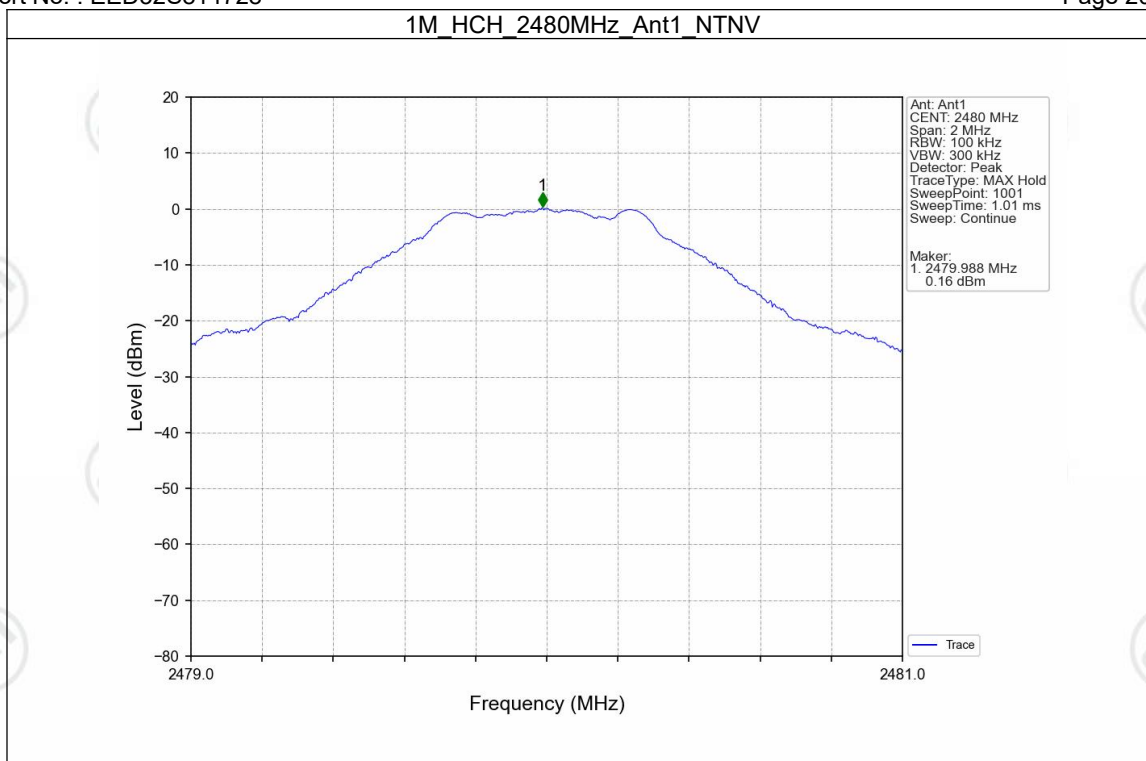
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.13	-19.87	Pass
		2440	1	0.54	-19.46	Pass
		2480	1	0.16	-19.84	Pass

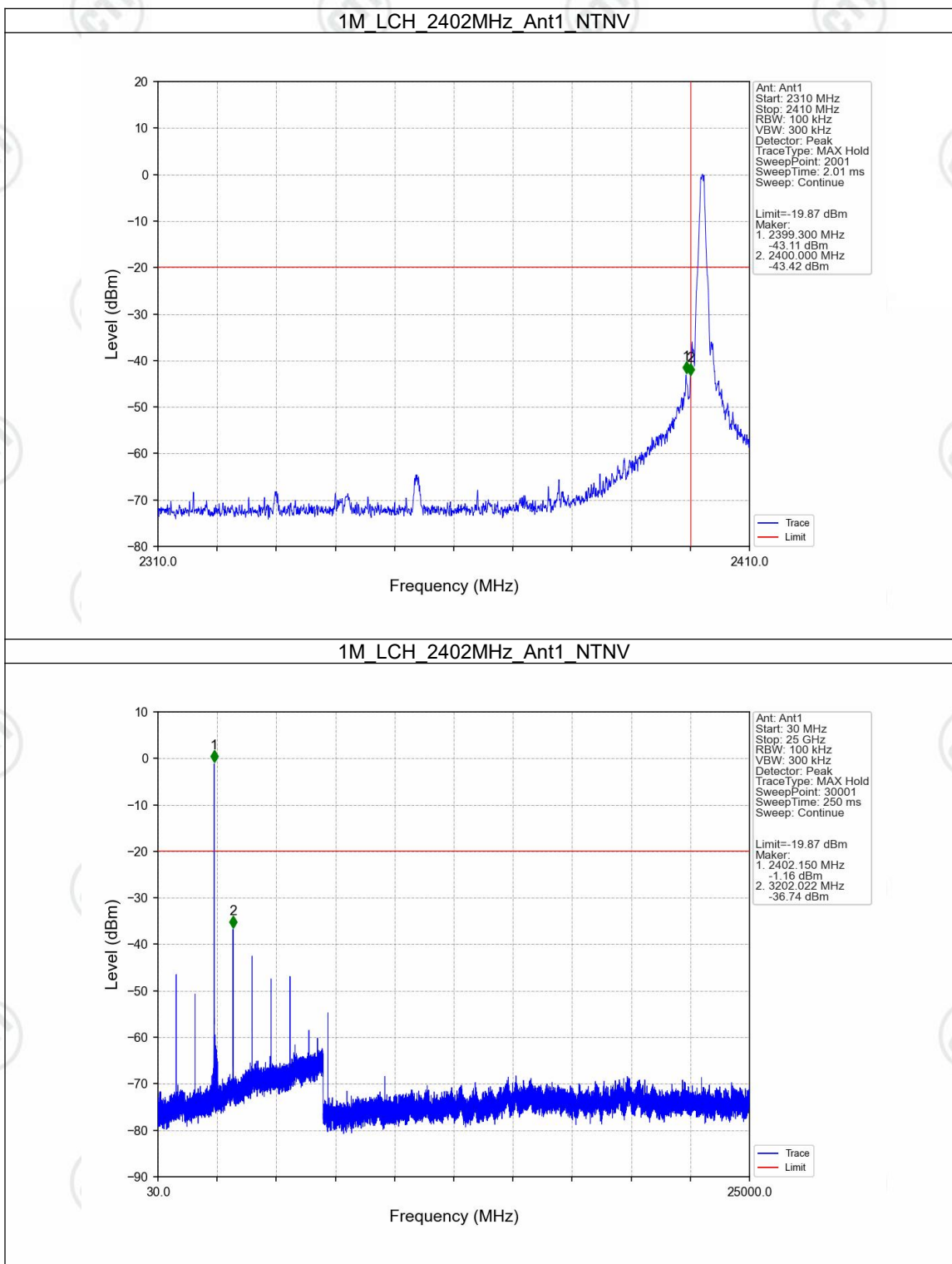
5.2 Test Graph

5.2.1 Ref

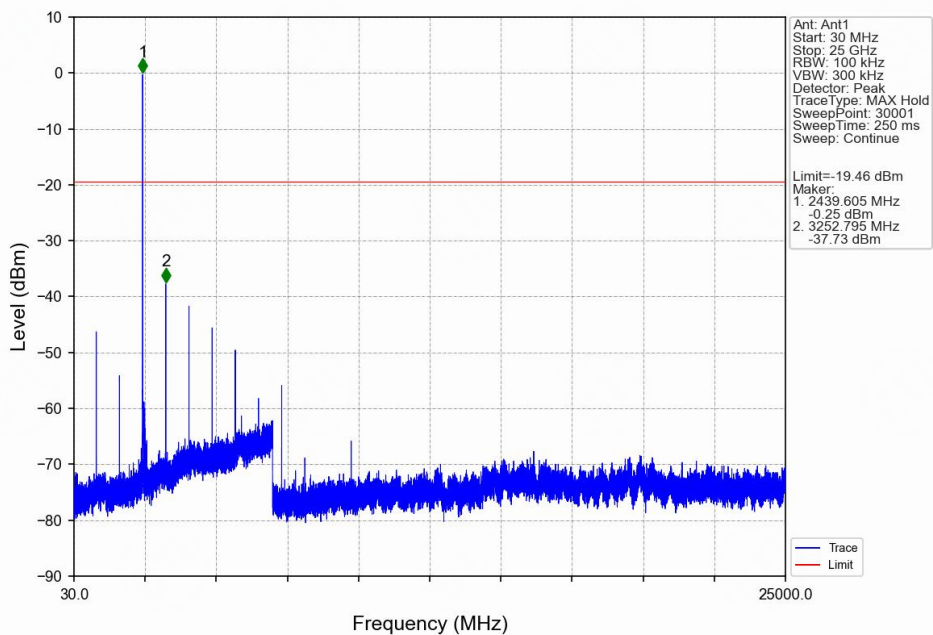




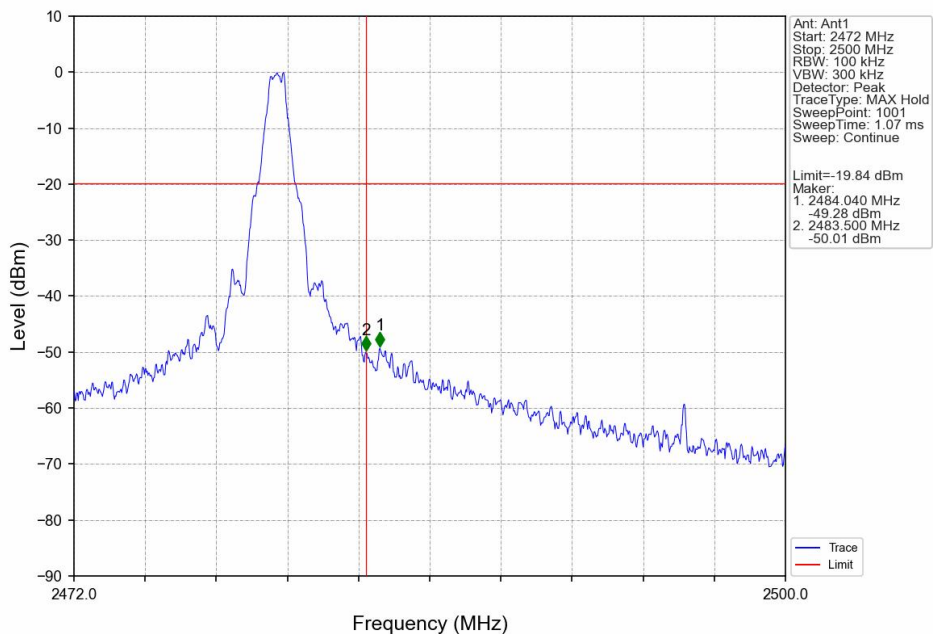
5.2.2 CSE

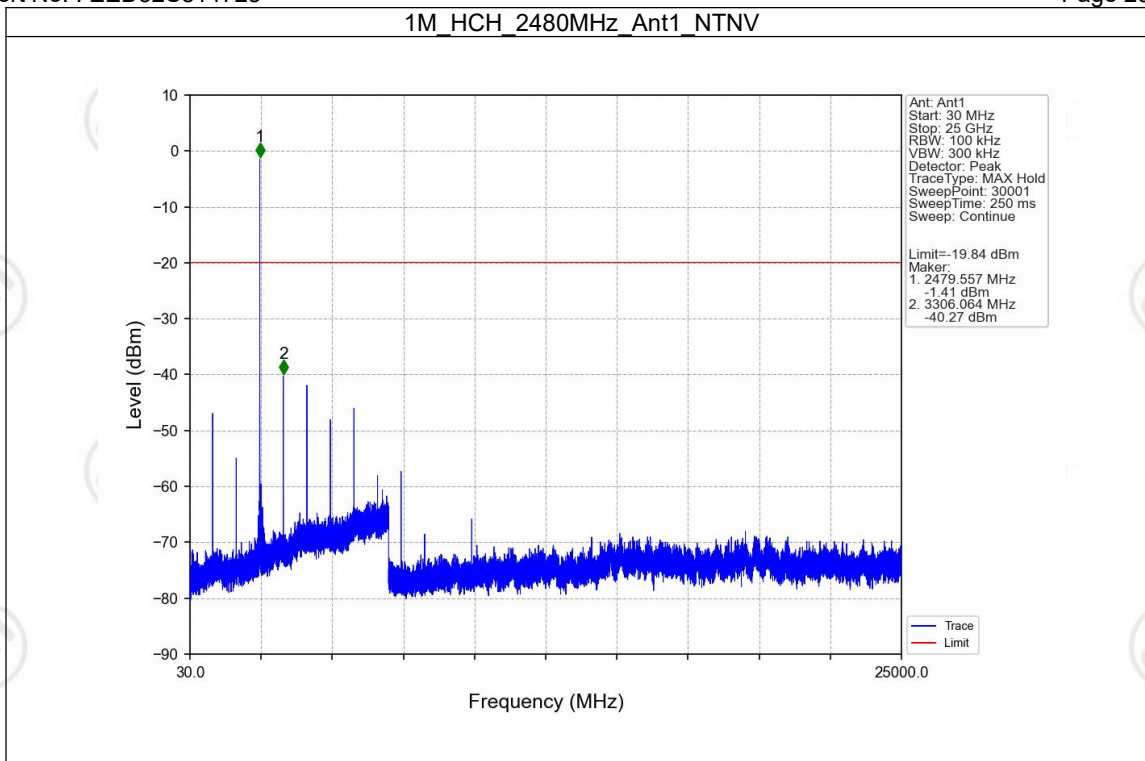


1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV





*** End of Report ***