

Appendix RF Test Data for BLE

Company: : **Shenzhen KY Intelligent Digital Co., Ltd**

EUT : **SMART WATCH**

FCC ID: : **2BDM8-GT16**

Model Number : **GT16**

Report No. : **HTT202608460F02**

Reviewed By : **Heber He**

1. Duty Cycle

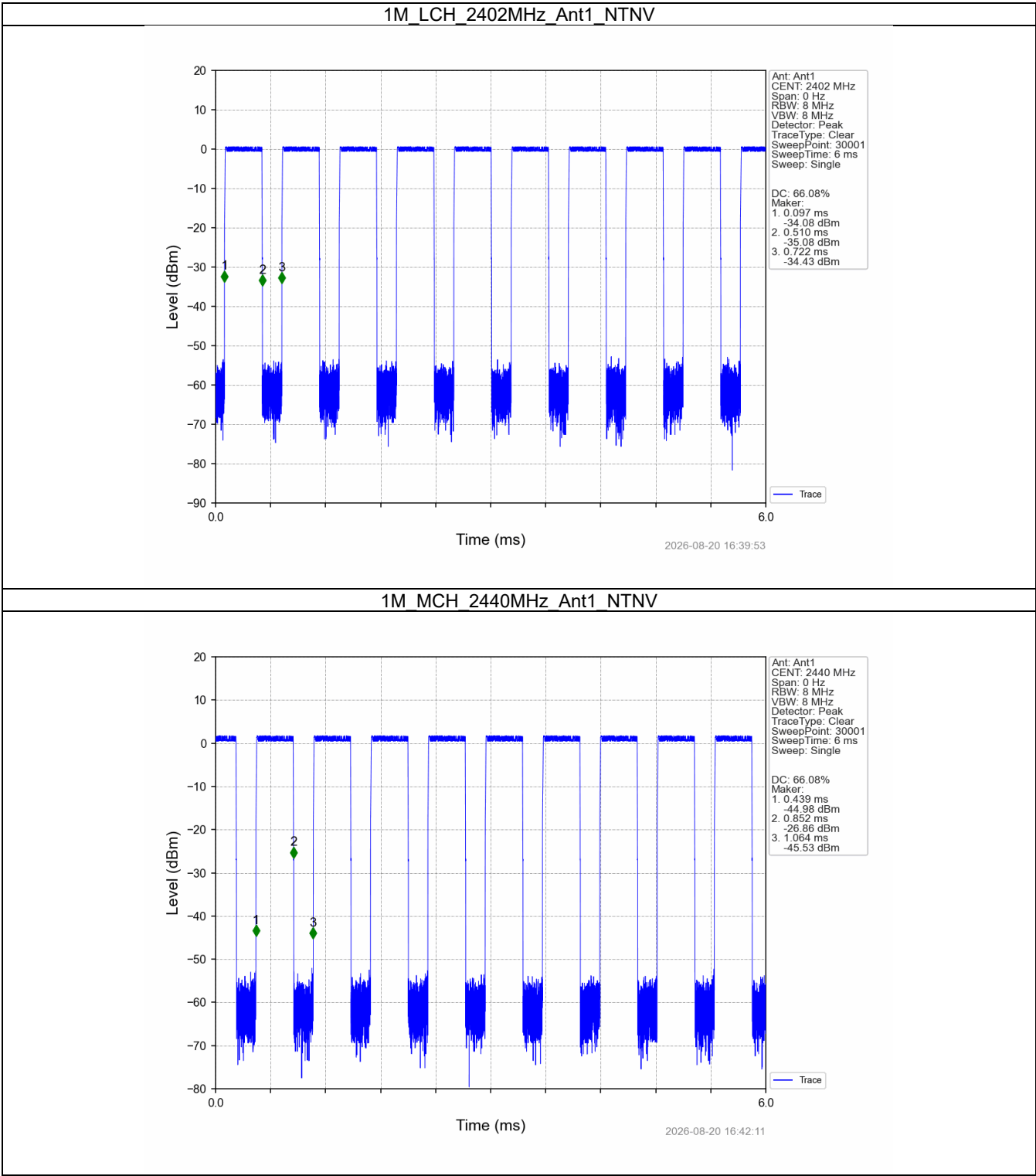
1.1 Test Result

1.1.1 Ant1

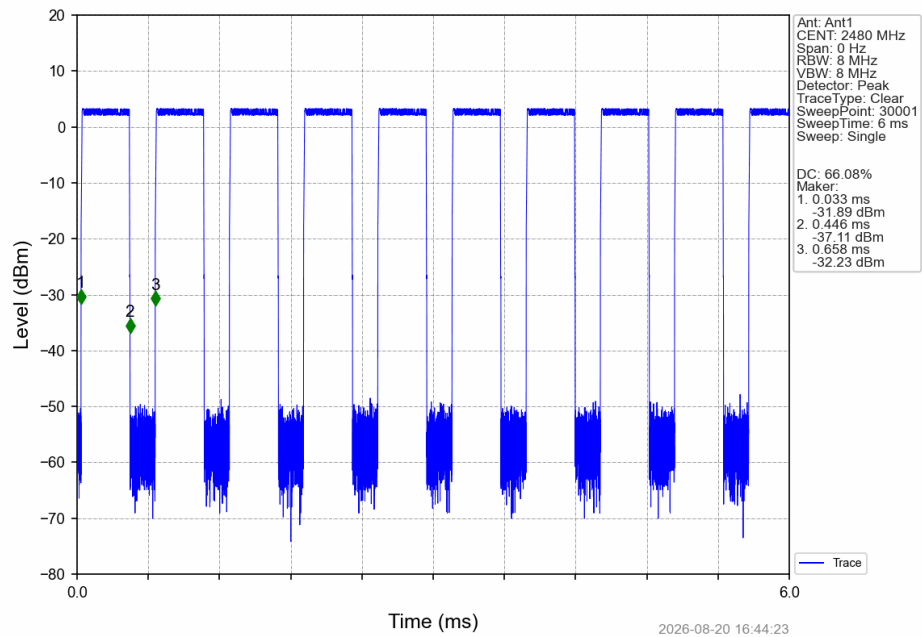
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.413	0.625	66.08	1.80	0.00
		2440	0.413	0.625	66.08	1.80	0.03
		2480	0.413	0.625	66.08	1.80	0.00

1.2 Test Graph

1.2.1 Ant1



1M_HCH_2480MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

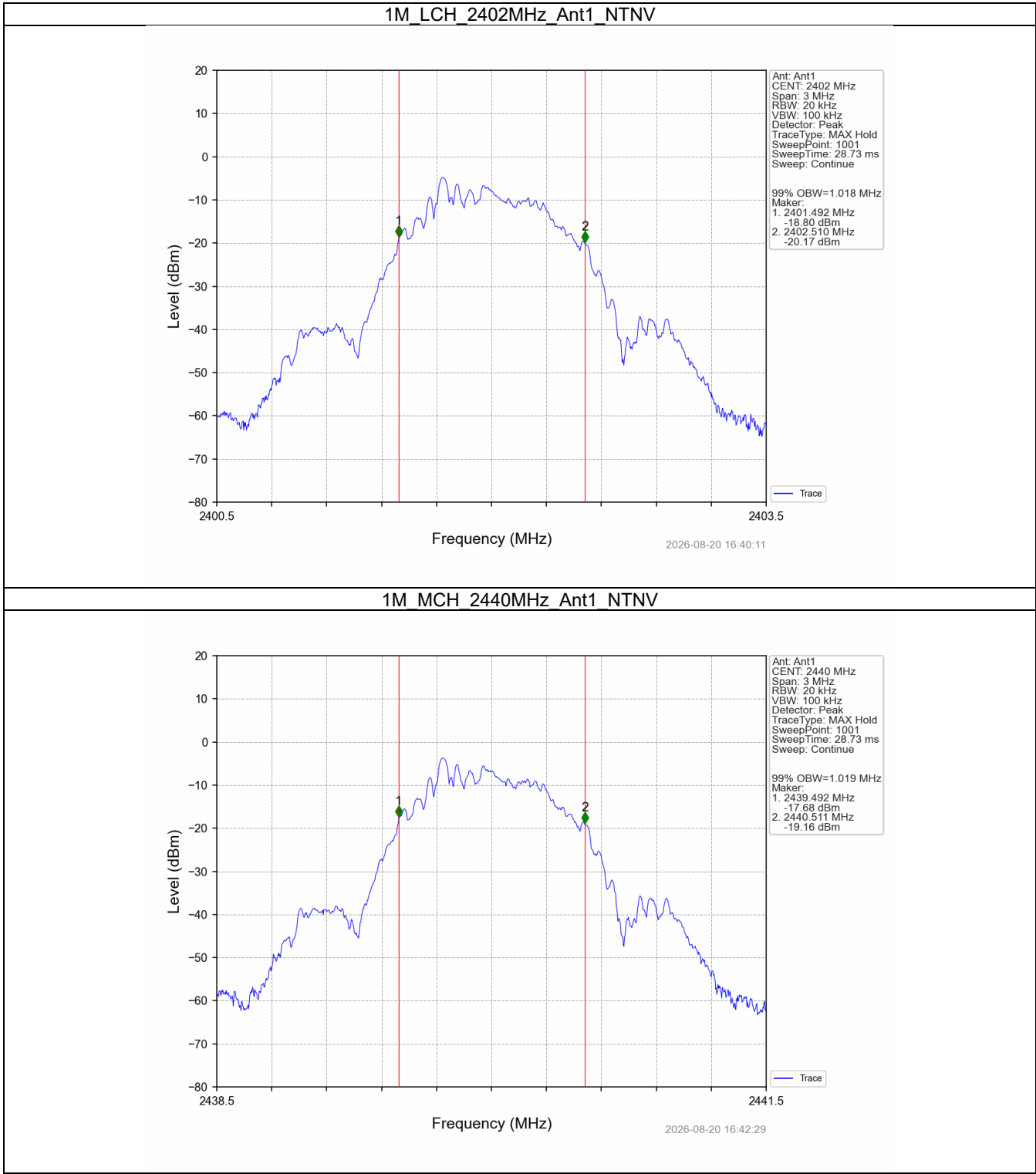
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.018	/	Pass
		2440	1	1.019	/	Pass
		2480	1	1.018	/	Pass

2.1.2 6dB BW

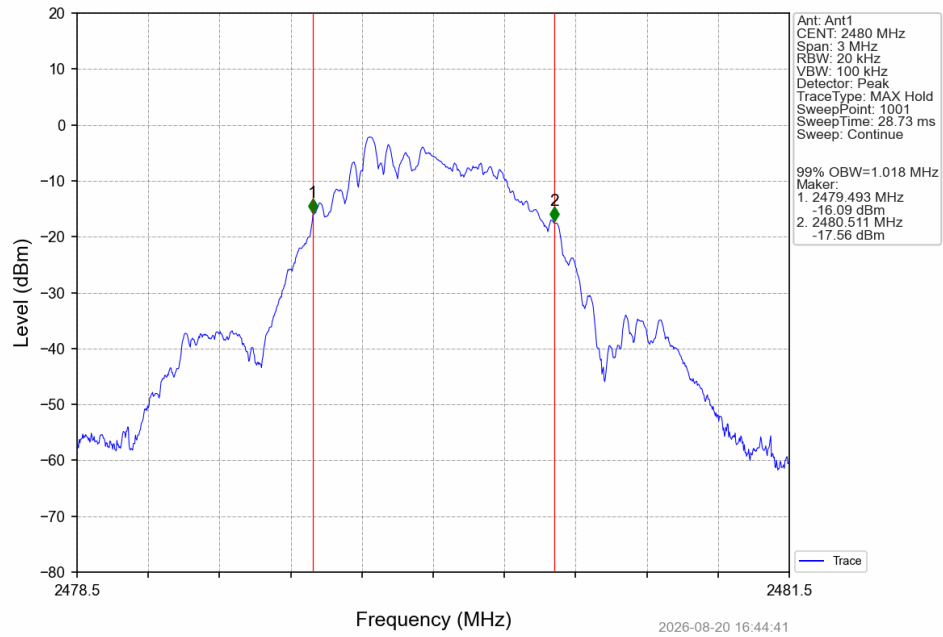
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.680	≥ 0.5	Pass
		2440	1	0.679	≥ 0.5	Pass
		2480	1	0.676	≥ 0.5	Pass

2.2 Test Graph

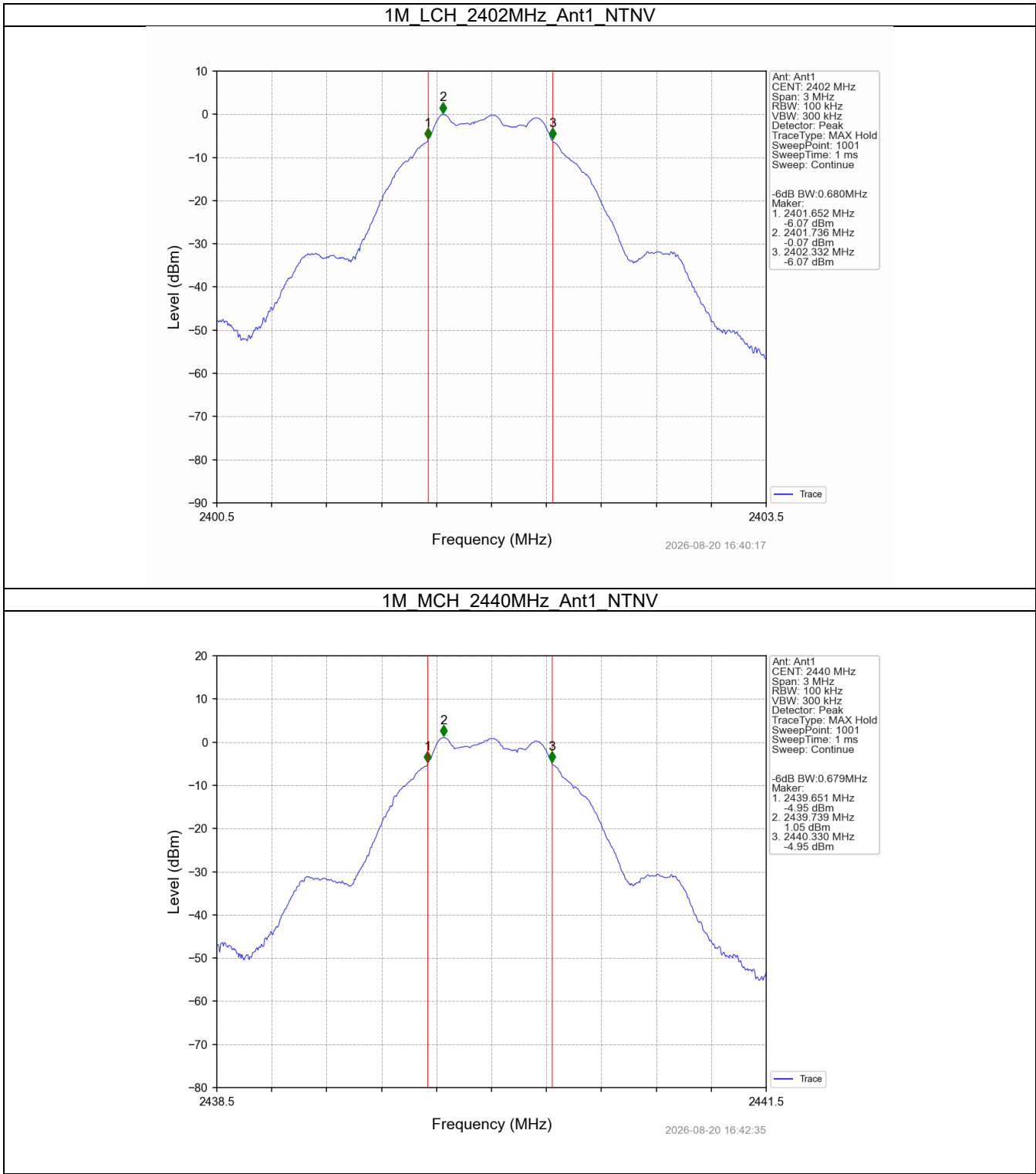
2.2.1 OBW



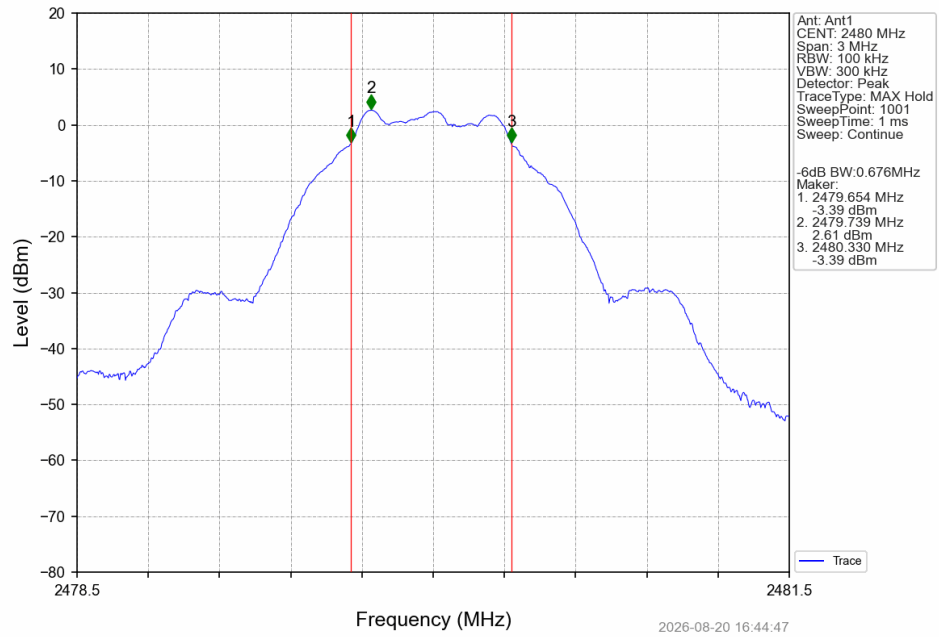
1M_HCH_2480MHz_Ant1_NTNV



2.2.2 6dB BW



1M_HCH_2480MHz_Ant1_NTNV



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	0.50	<=30	Pass
		2440	1.63	<=30	Pass
		2480	3.18	<=30	Pass

4. Maximum Power Spectral Density

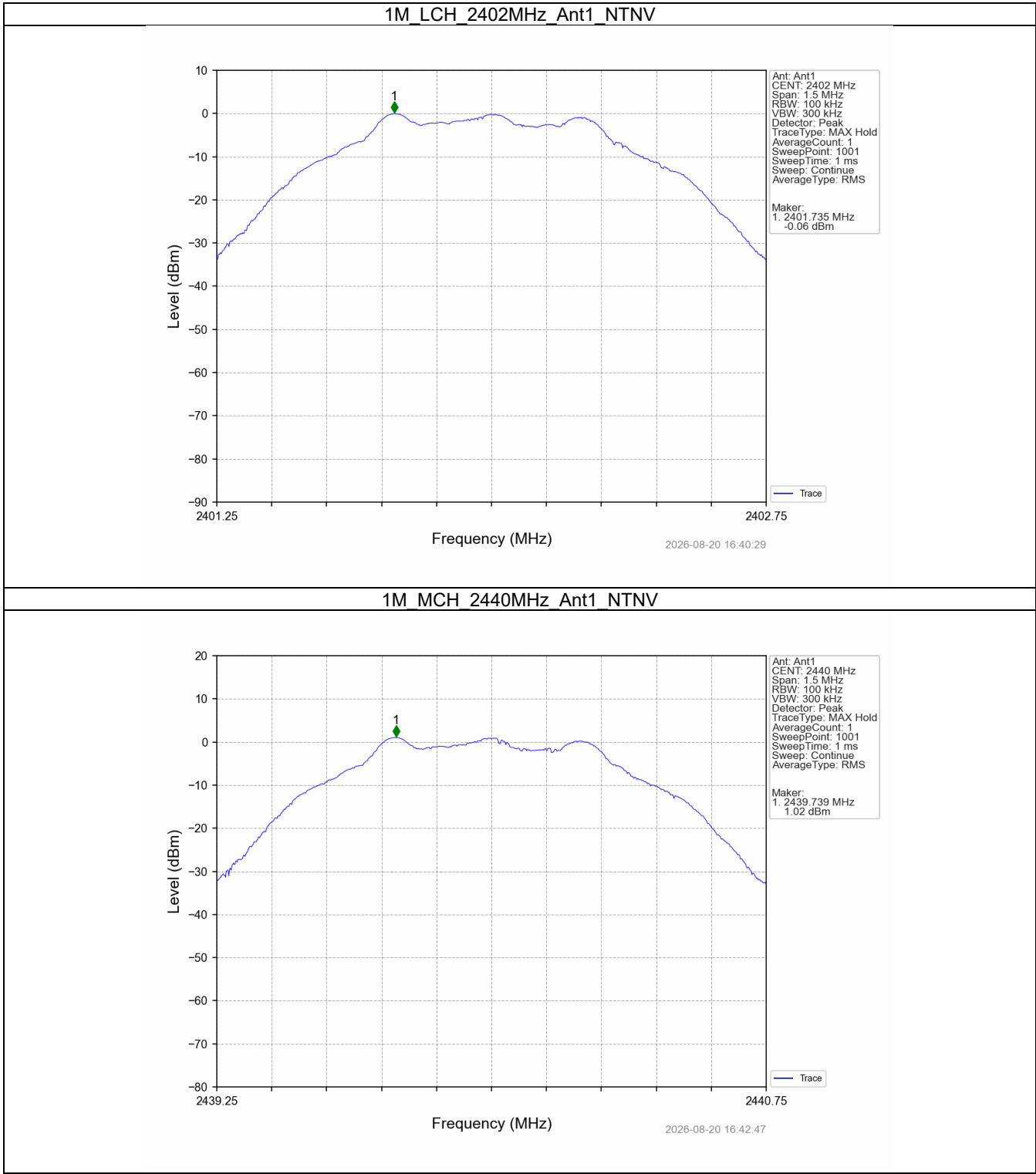
4.1 Test Result

4.1.1 PSD

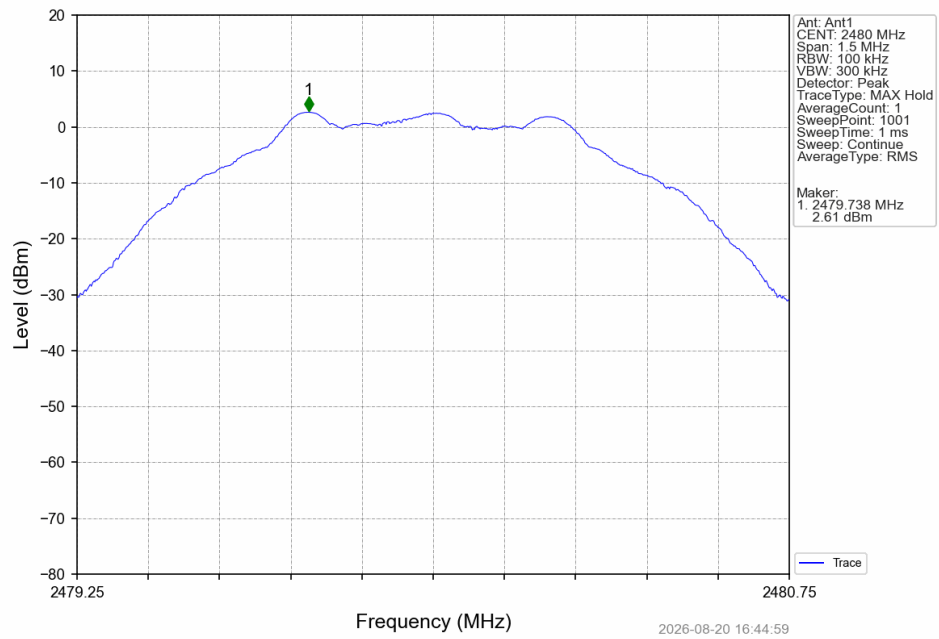
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	-0.06dBm/100kHz	<=8	Pass
		2440	1.02dBm/100kHz	<=8	Pass
		2480	2.61dBm/100kHz	<=8	Pass

4.2 Test Graph

4.2.1 PSD



1M_HCH_2480MHz_Ant1_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

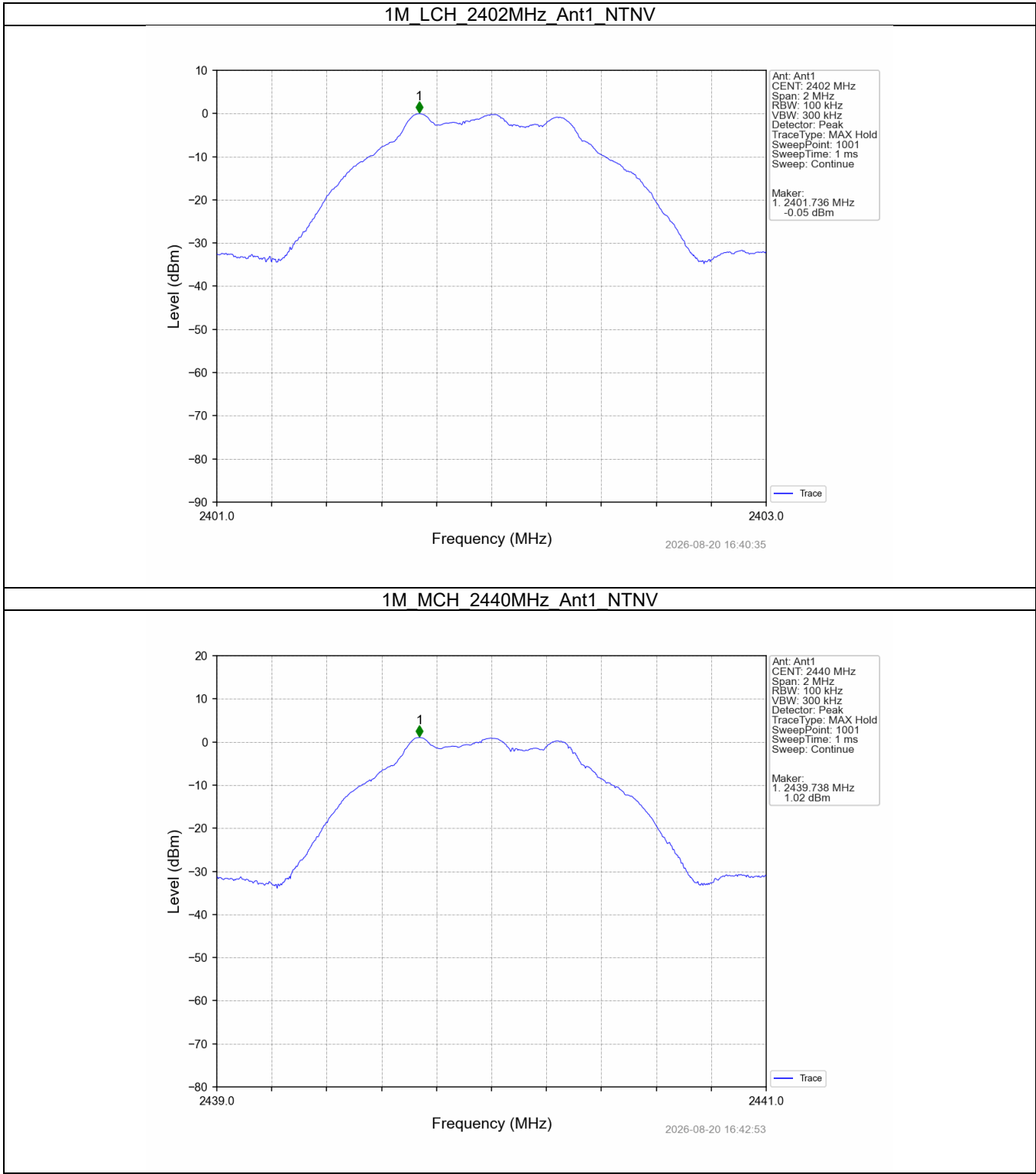
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-0.05
		2440	1	1.02
		2480	1	2.61

5.1.2 CSE

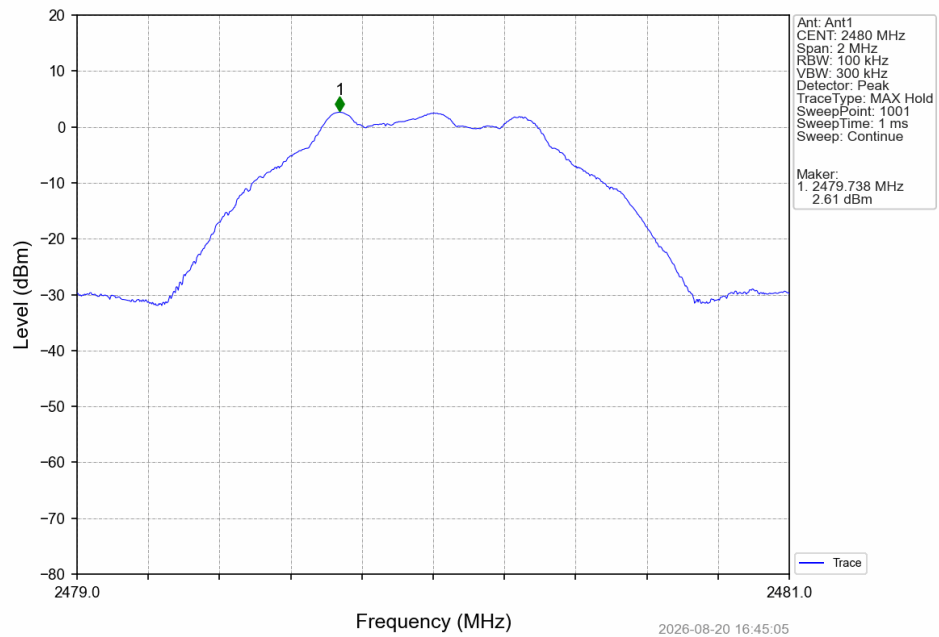
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-0.05	-20.05	Pass
		2440	1	1.02	-18.98	Pass
		2480	1	2.61	-17.39	Pass

5.2 Test Graph

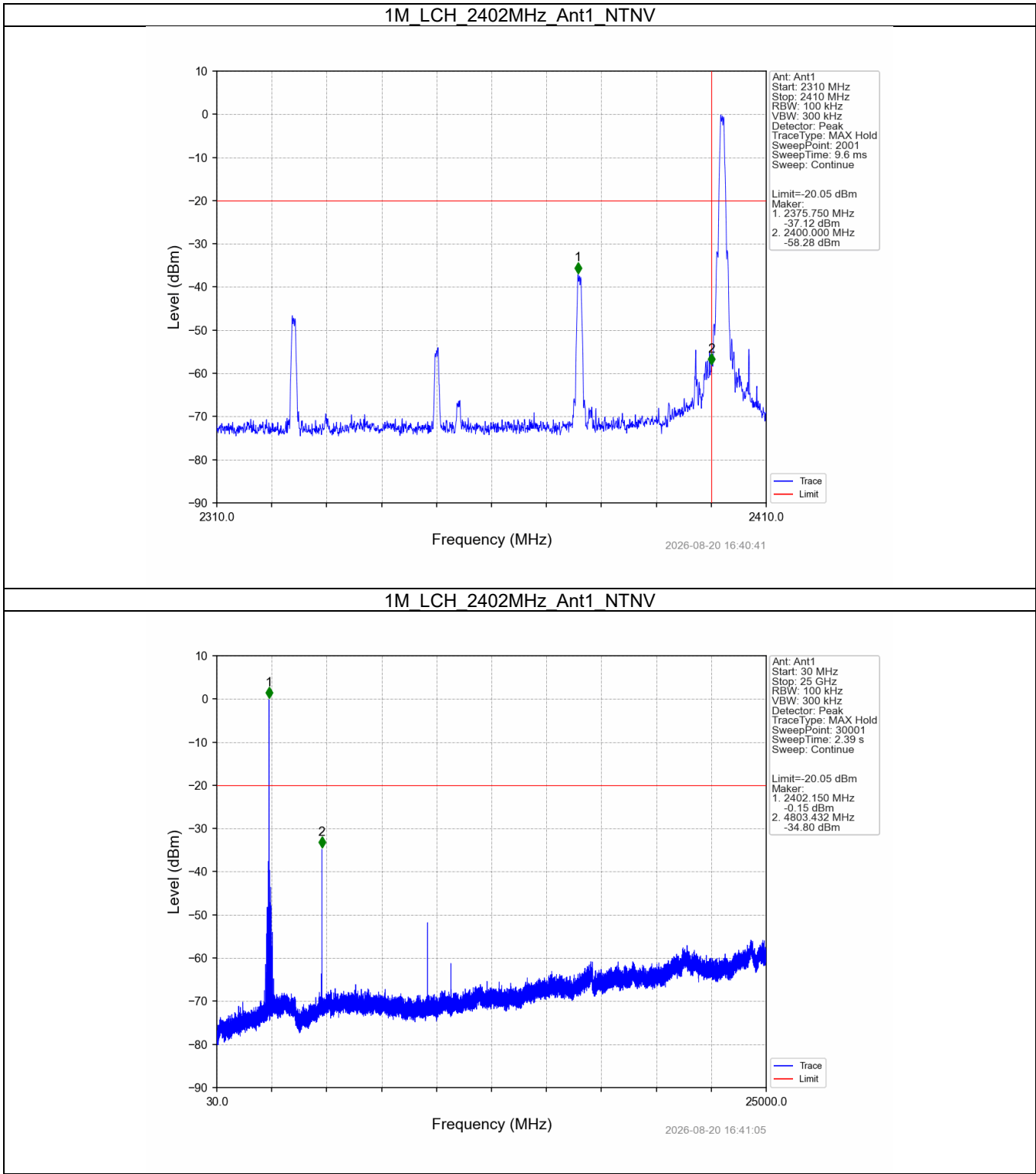
5.2.1 Ref



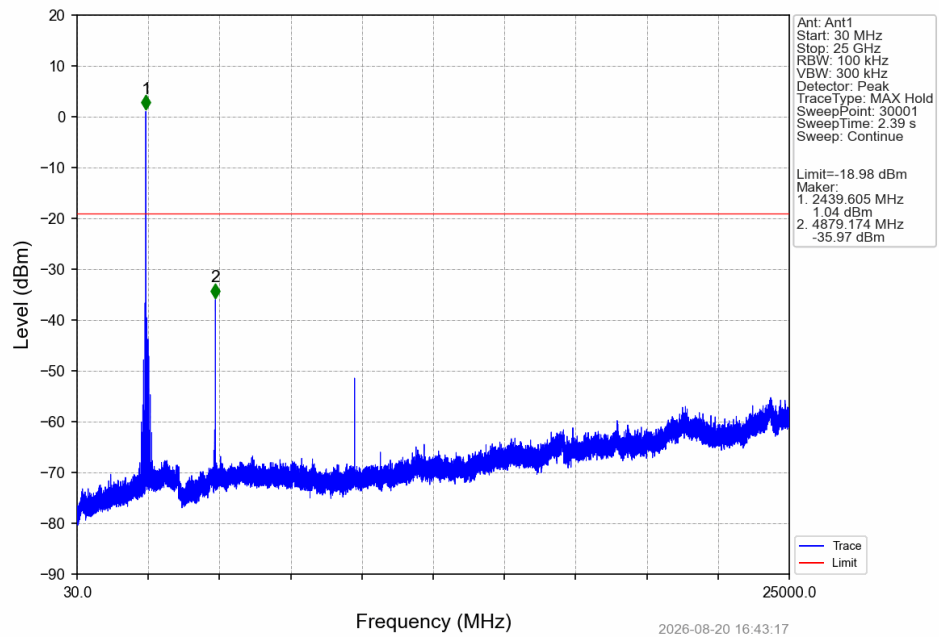
1M_HCH_2480MHz_Ant1_NTNV



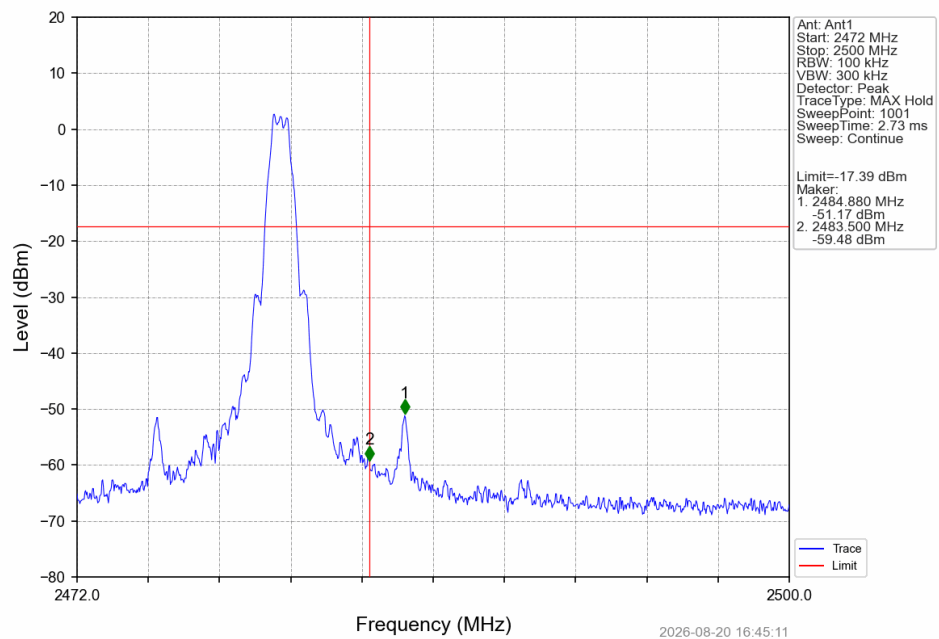
5.2.2 CSE



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

