Appendix RF Test Data for BLE

Company:	**:**	**Guangdong Baixiang Environmental Technology Co., Ltd**
EUT	**:**	**F2000 Diffuser**
FCC ID:	**:**	**2BA6L-F2000**
Model Number	**:**	**F2000**
Report No.	**:**	**HTT2026071040F02**
Reviewed By	**:**	**Heber He**

1. Duty Cycle

1.1 Test Result

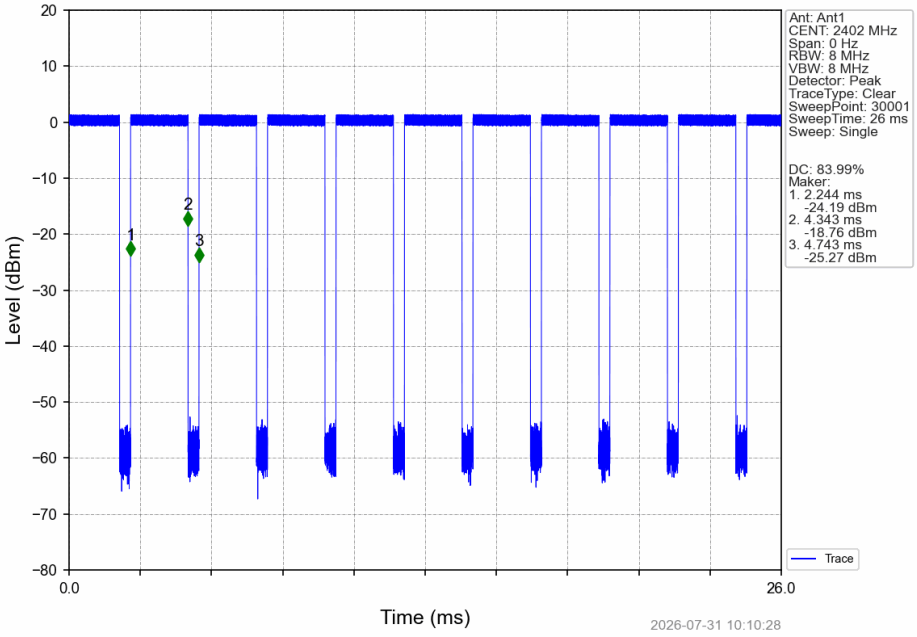
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	2.099	2.499	83.99	0.76	0.03
		2440	2.099	2.500	83.96	0.76	0.03
		2480	2.099	2.499	83.99	0.76	0.03
2M	SISO	2402	1.063	1.875	56.69	2.46	0.03
		2440	1.064	1.876	56.72	2.46	0.03
		2480	1.063	1.875	56.69	2.46	0.03

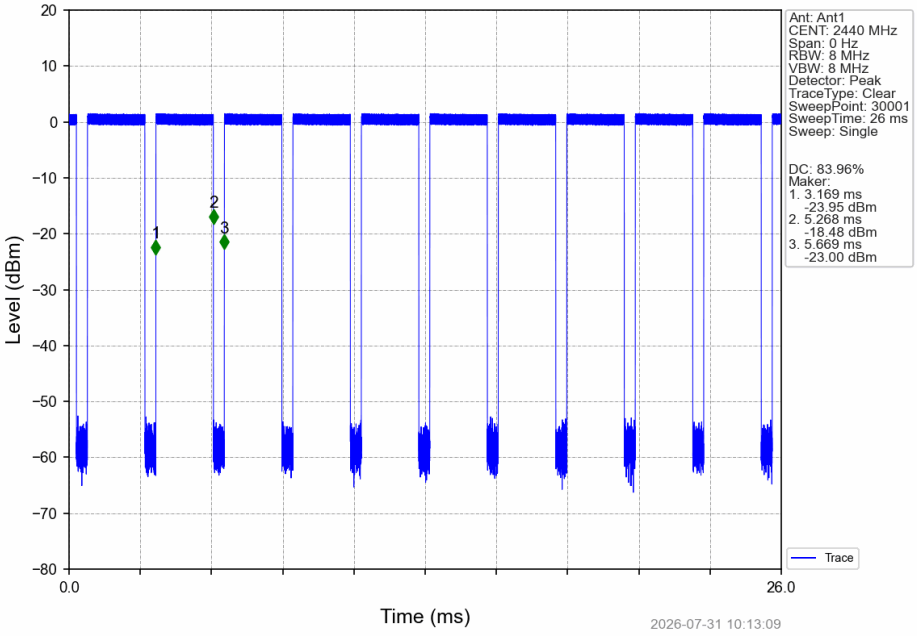
1.2 Test Graph

1.2.1 Ant1

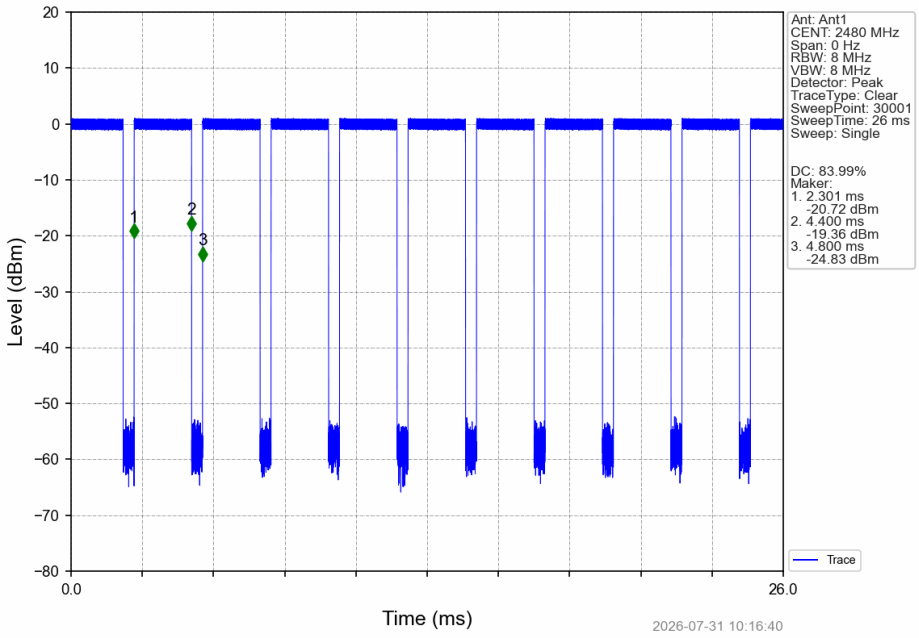
1M_LCH_2402MHz_Ant1_NTNV



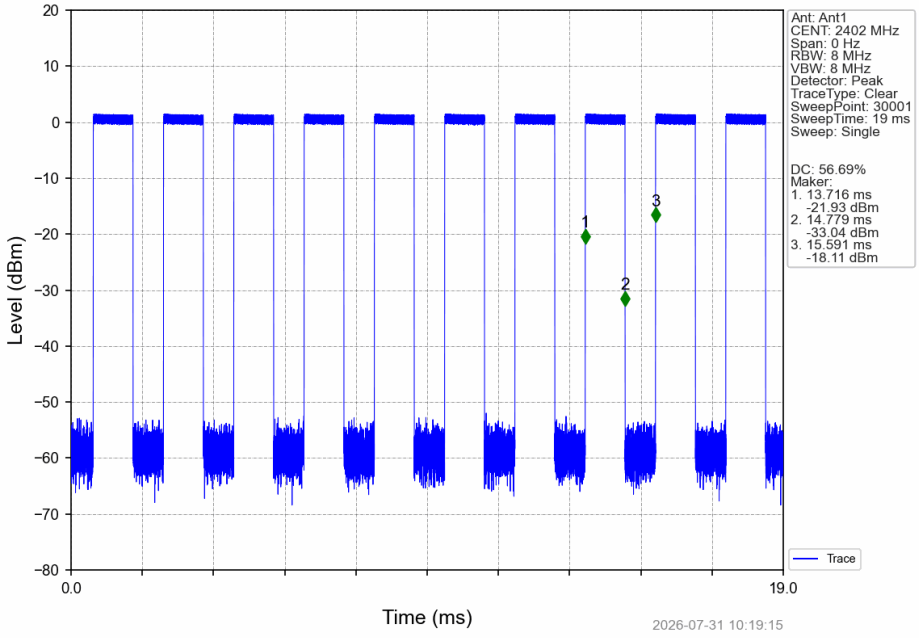
1M_MCH_2440MHz_Ant1_NTNV



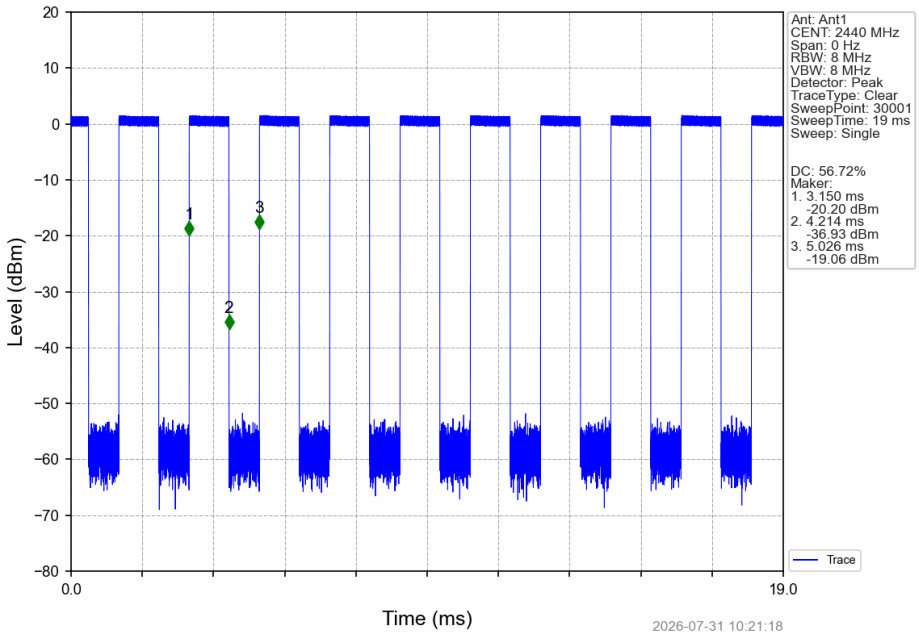
1M_HCH_2480MHz_Ant1_NTNV



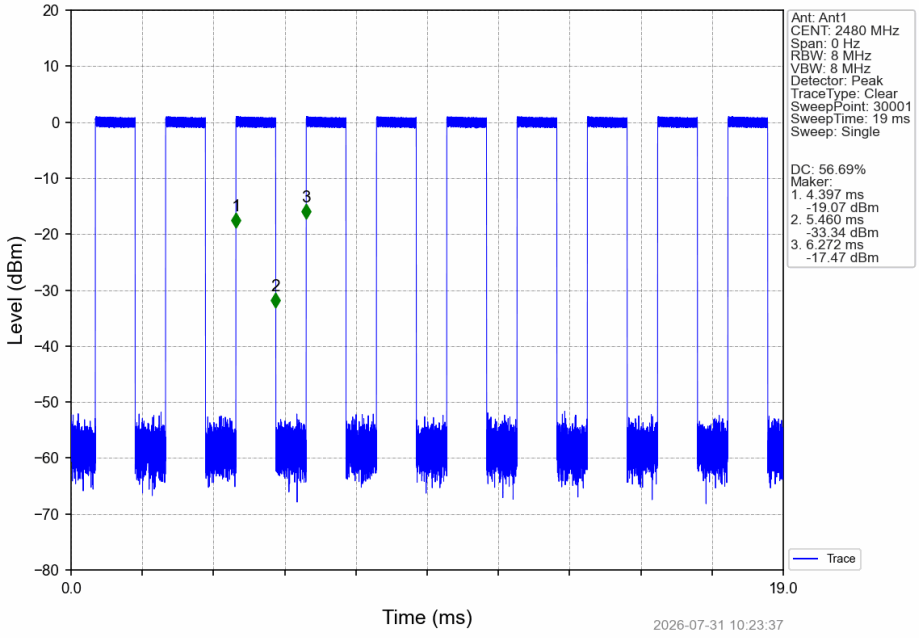
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_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	1.077	/	Pass
		2440	1	1.078	/	Pass
		2480	1	1.079	/	Pass
2M	SISO	2402	1	2.094	/	Pass
		2440	1	2.096	/	Pass
		2480	1	2.100	/	Pass

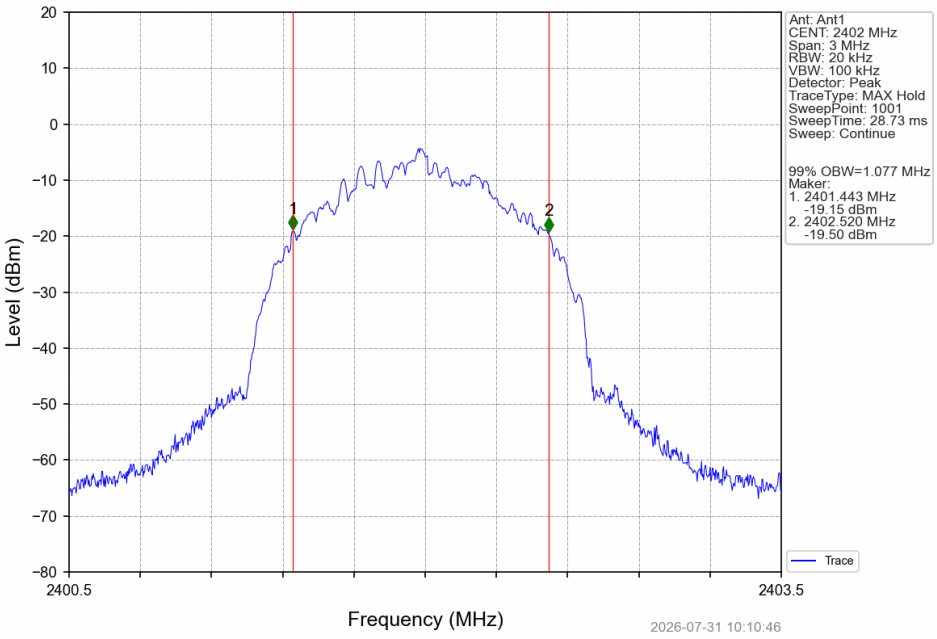
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.629	>=0.5	Pass
		2440	1	0.631	>=0.5	Pass
		2480	1	0.678	>=0.5	Pass
2M	SISO	2402	1	1.118	>=0.5	Pass
		2440	1	1.114	>=0.5	Pass
		2480	1	1.120	>=0.5	Pass

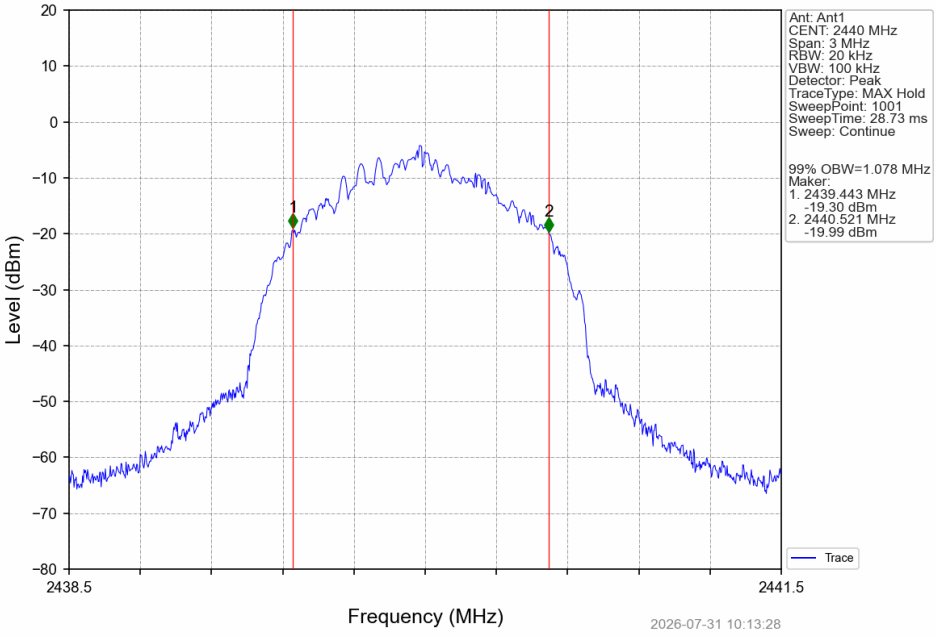
2.2 Test Graph

2.2.1 OBW

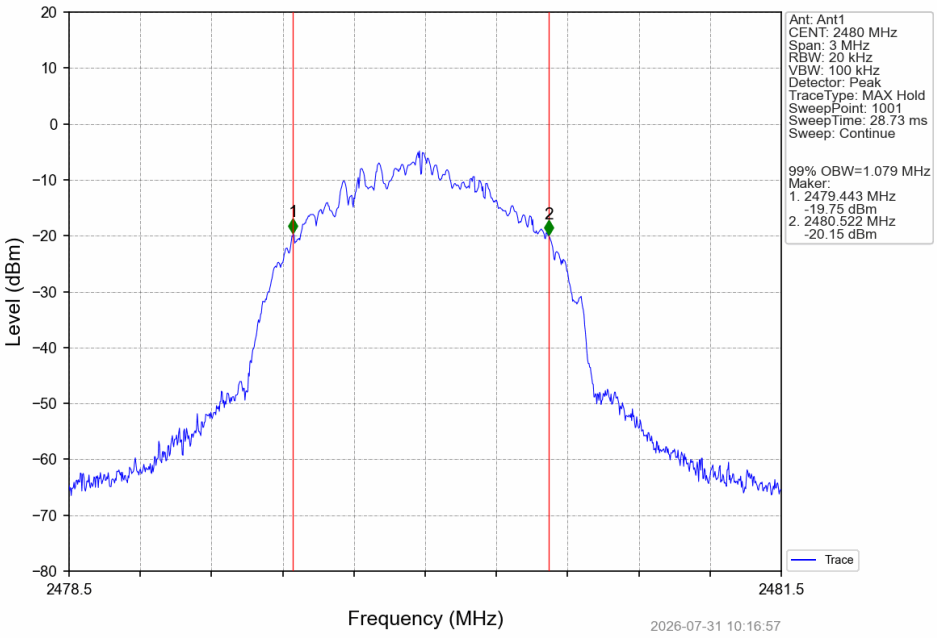
1M_LCH_2402MHz_Ant1_NTNV



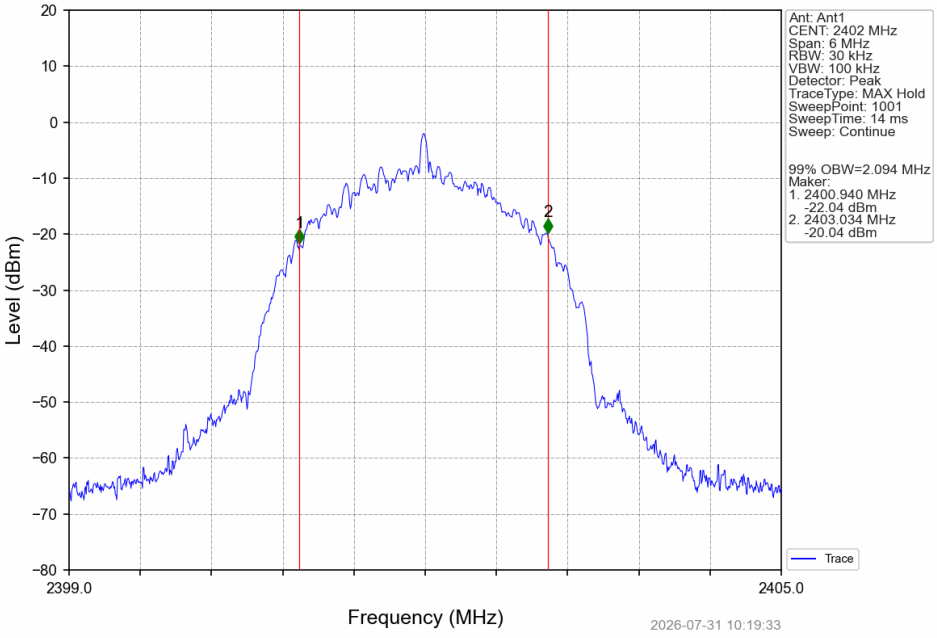
1M_MCH_2440MHz_Ant1_NTNV



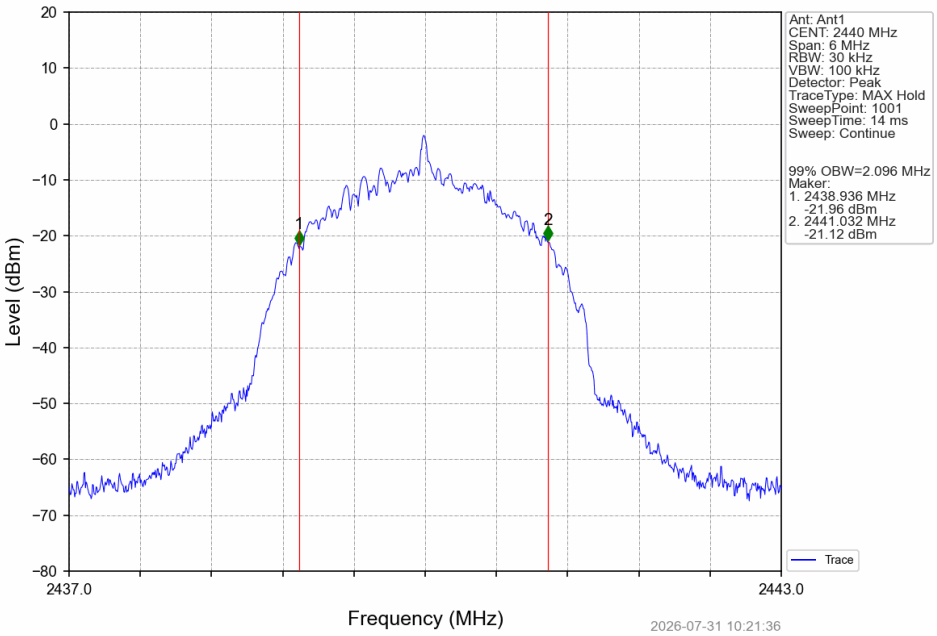
1M_HCH_2480MHz_Ant1_NTNV



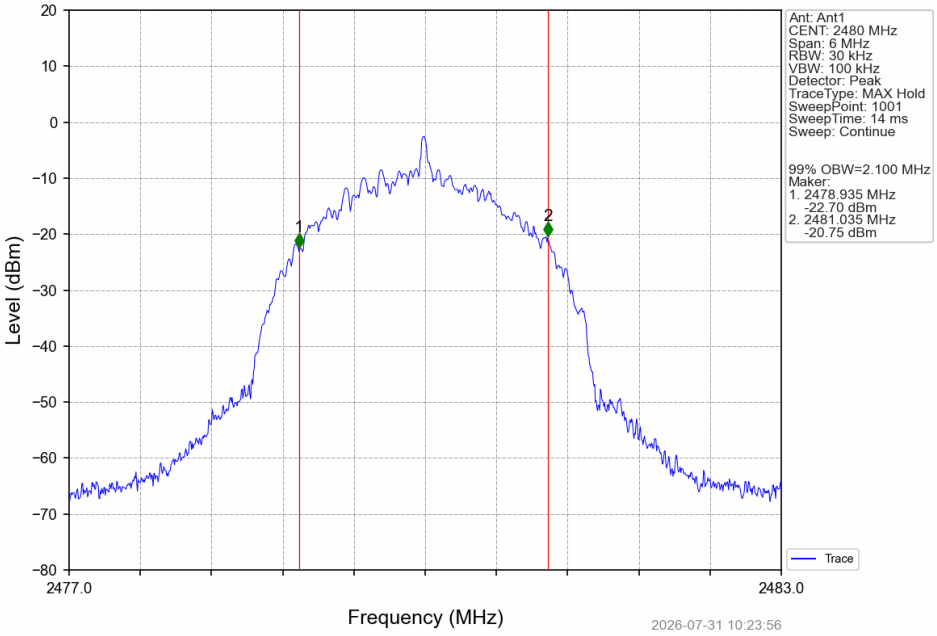
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV

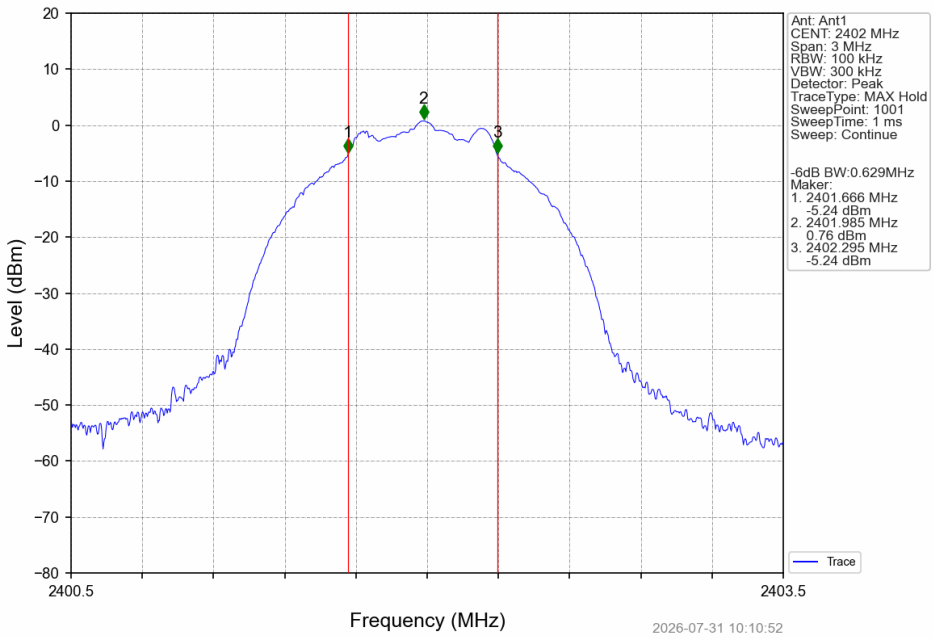


2M_HCH_2480MHz_Ant1_NTNV

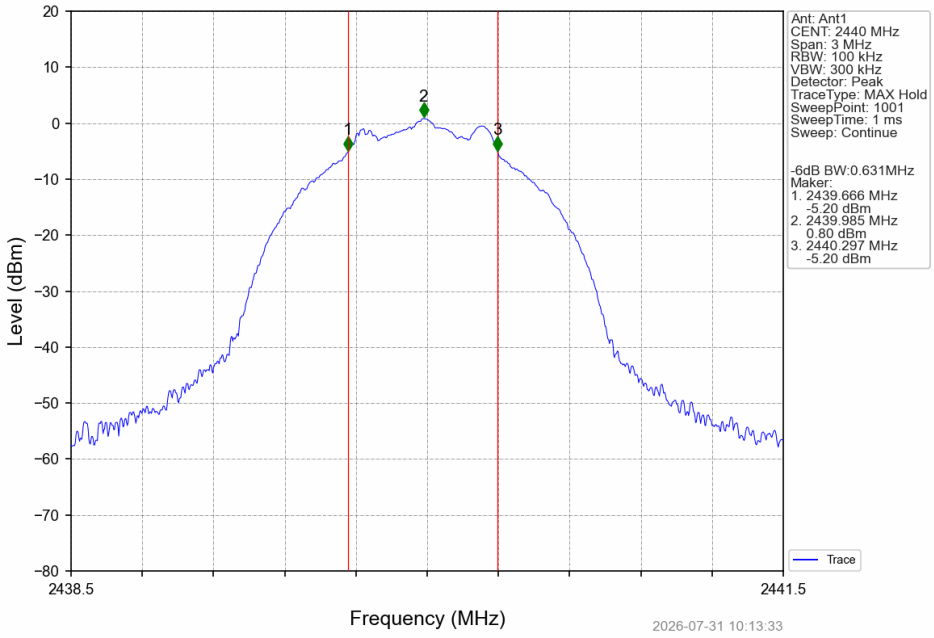


2.2.2 6dB BW

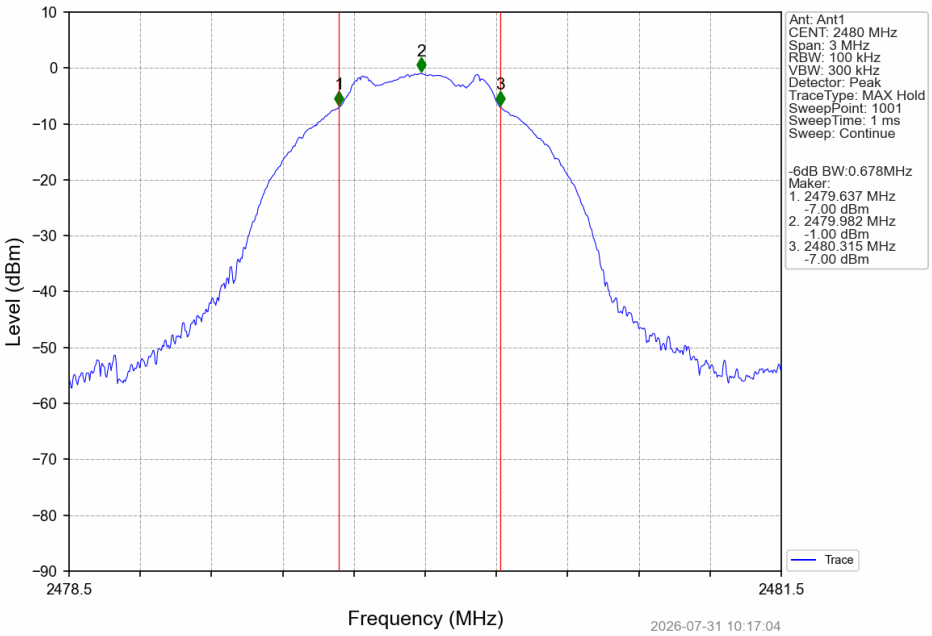
1M_LCH_2402MHz_Ant1_NTNV



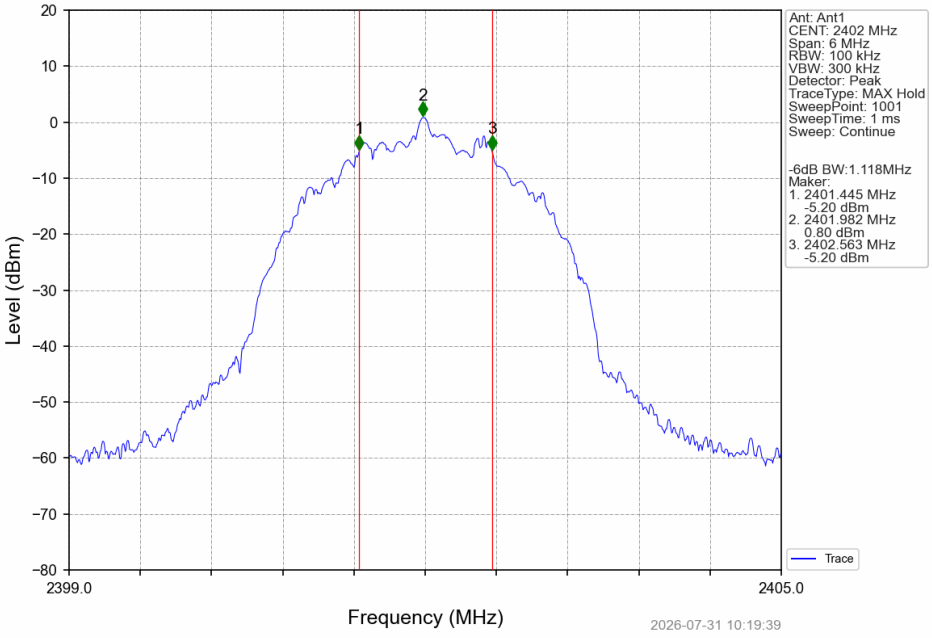
1M_MCH_2440MHz_Ant1_NTNV



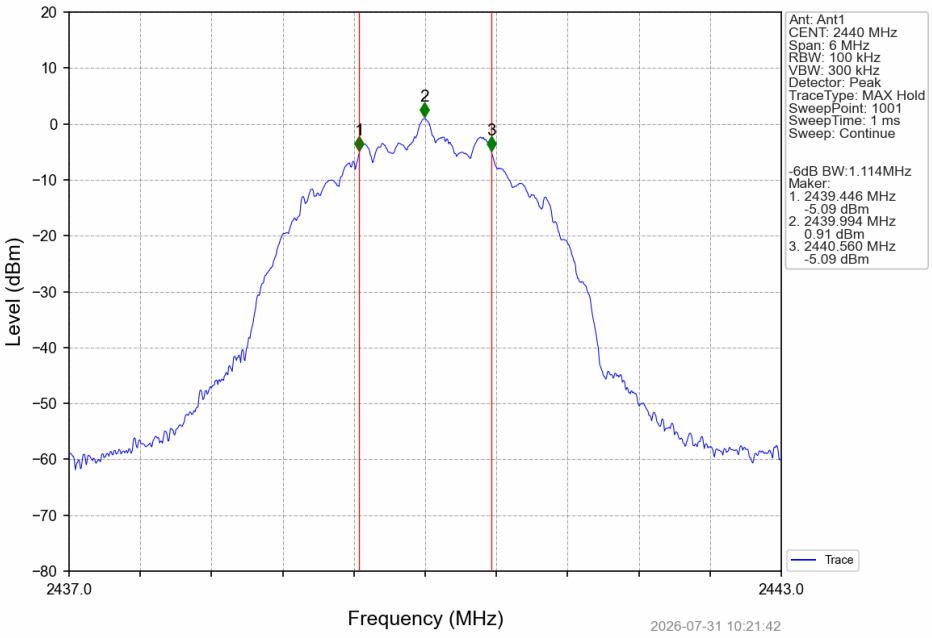
1M_HCH_2480MHz_Ant1_NTNV



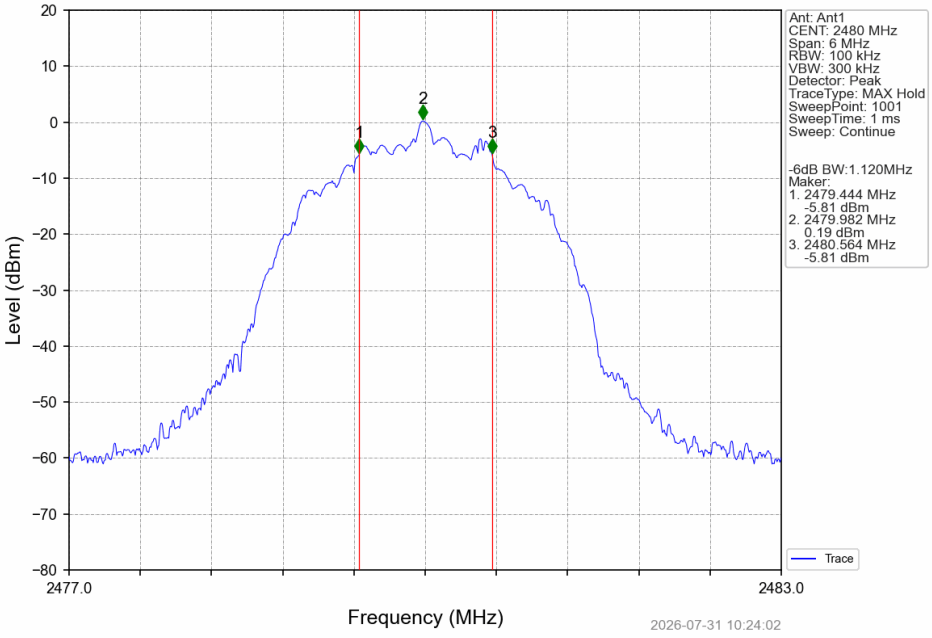
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_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	0.97	<=30	Pass
		2440	1.09	<=30	Pass
		2480	0.54	<=30	Pass
2M	SISO	2402	1.15	<=30	Pass
		2440	1.08	<=30	Pass
		2480	0.59	<=30	Pass

4. Maximum Power Spectral Density

4.1 Test Result

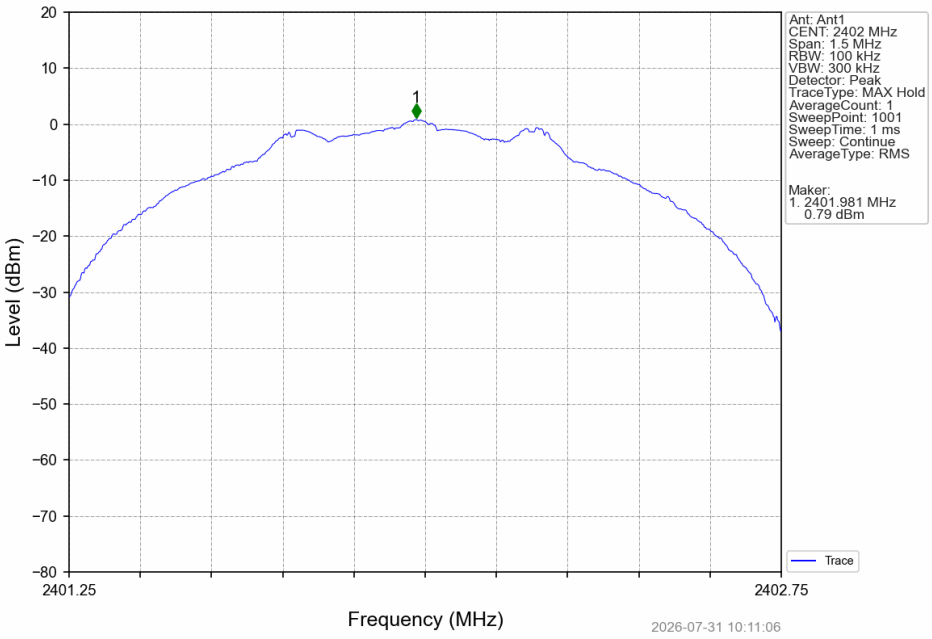
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	0.79dBm/100kHz	<=8	Pass
		2440	0.68dBm/100kHz	<=8	Pass
		2480	-0.66dBm/100kHz	<=8	Pass
2M	SISO	2402	0.84dBm/100kHz	<=8	Pass
		2440	0.80dBm/100kHz	<=8	Pass
		2480	-0.22dBm/100kHz	<=8	Pass

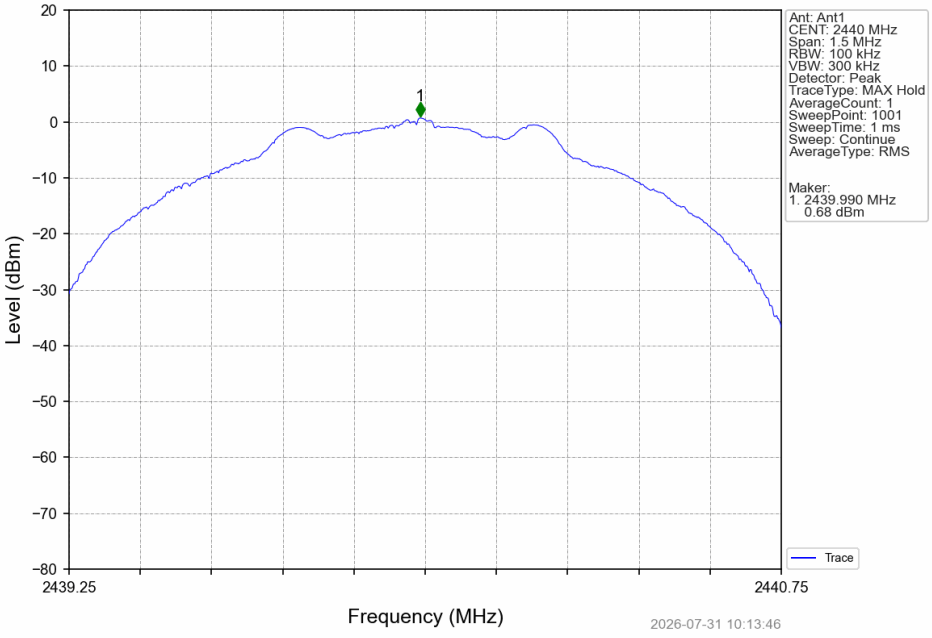
4.2 Test Graph

4.2.1 PSD

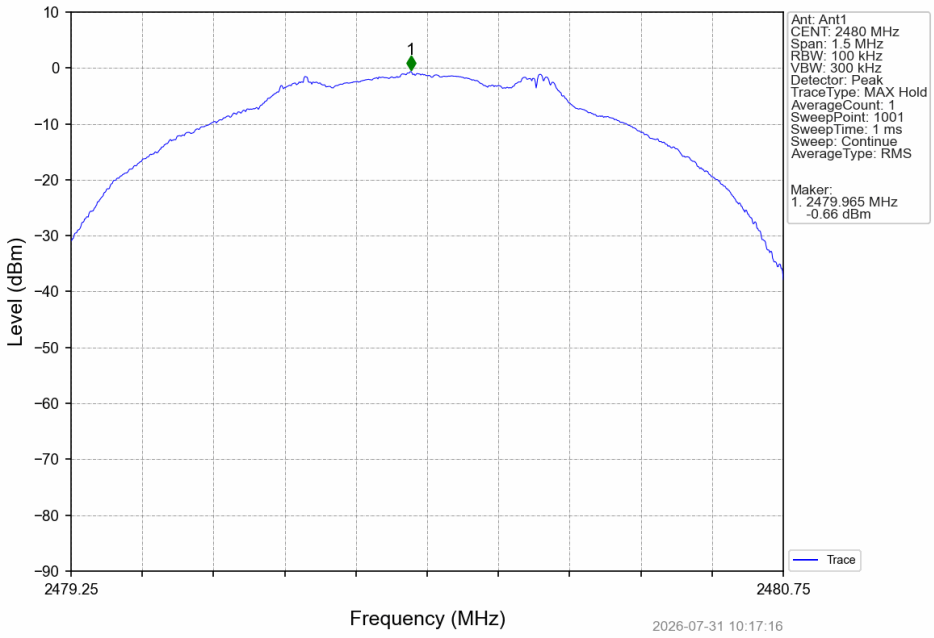
1M_LCH_2402MHz_Ant1_NTNV



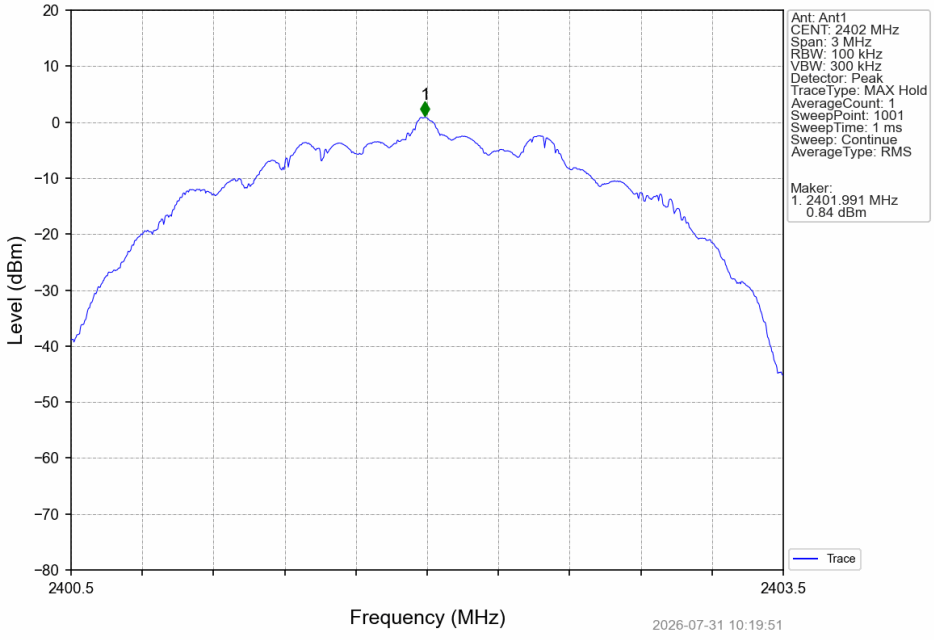
1M_MCH_2440MHz_Ant1_NTNV



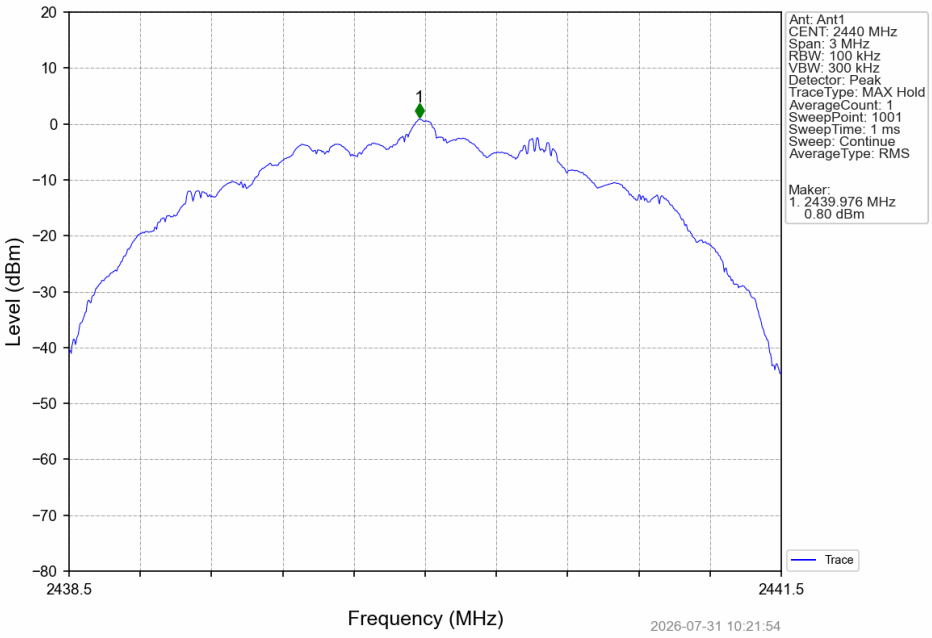
1M_HCH_2480MHz_Ant1_NTNV



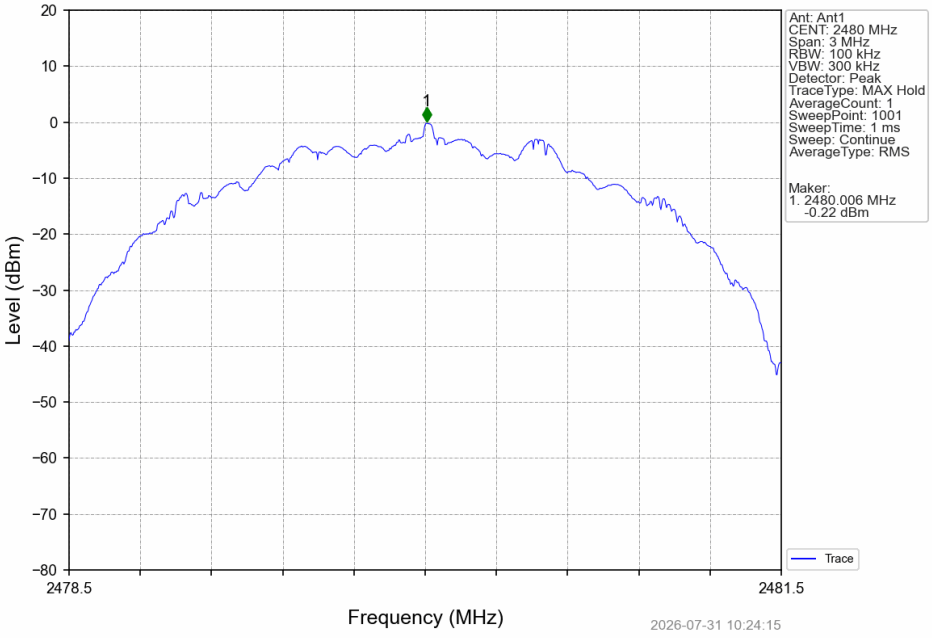
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_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	0.35
		2440	1	0.56
		2480	1	0.27
2M	SISO	2402	1	0.54
		2440	1	0.85
		2480	1	0.44

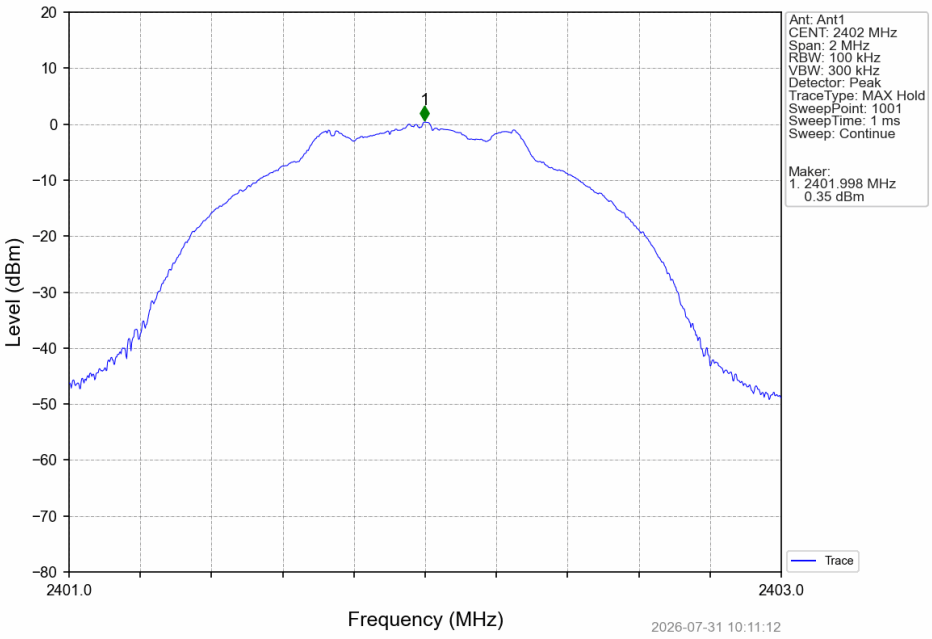
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.35	-19.65	Pass
		2440	1	0.56	-19.44	Pass
		2480	1	0.27	-19.73	Pass
2M	SISO	2402	1	0.54	-19.46	Pass
		2440	1	0.85	-19.15	Pass
		2480	1	0.44	-19.56	Pass

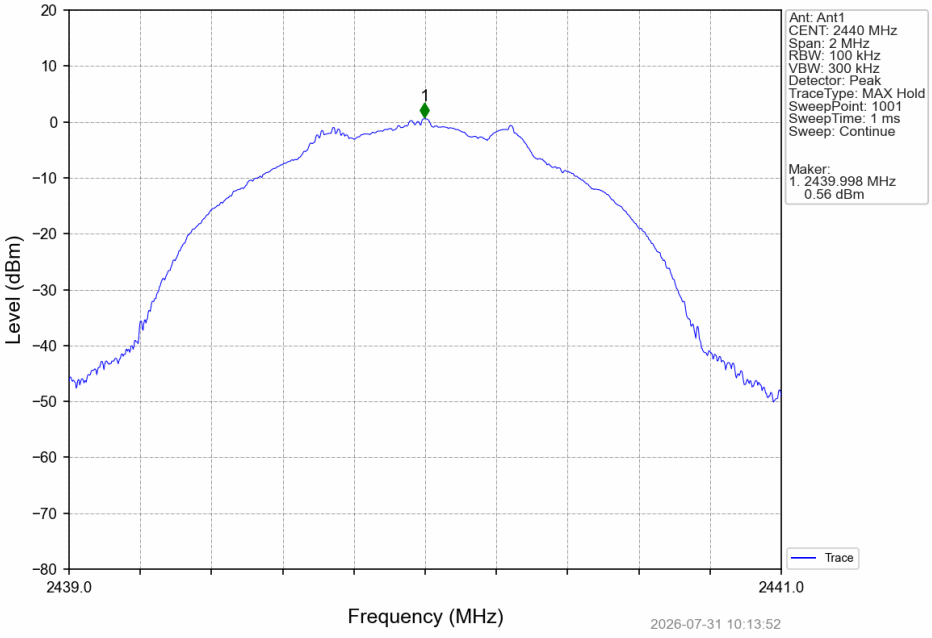
5.2 Test Graph

5.2.1 Ref

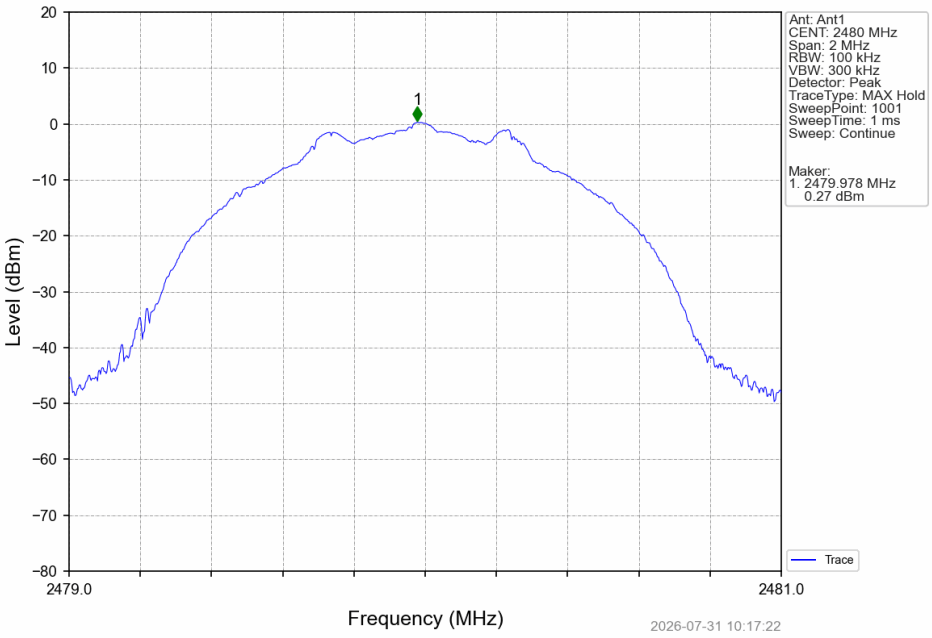
1M_LCH_2402MHz_Ant1_NTNV



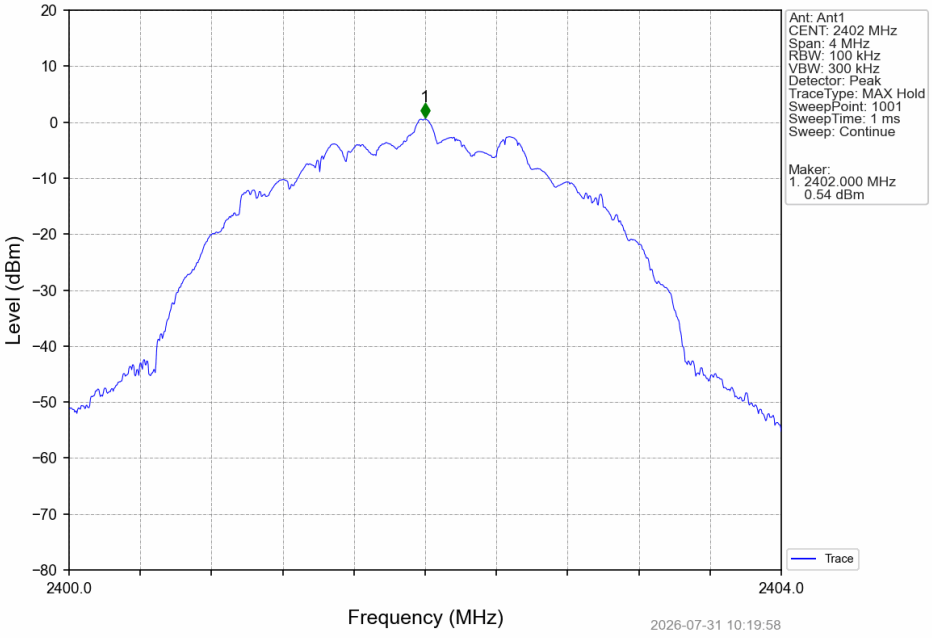
1M_MCH_2440MHz_Ant1_NTNV



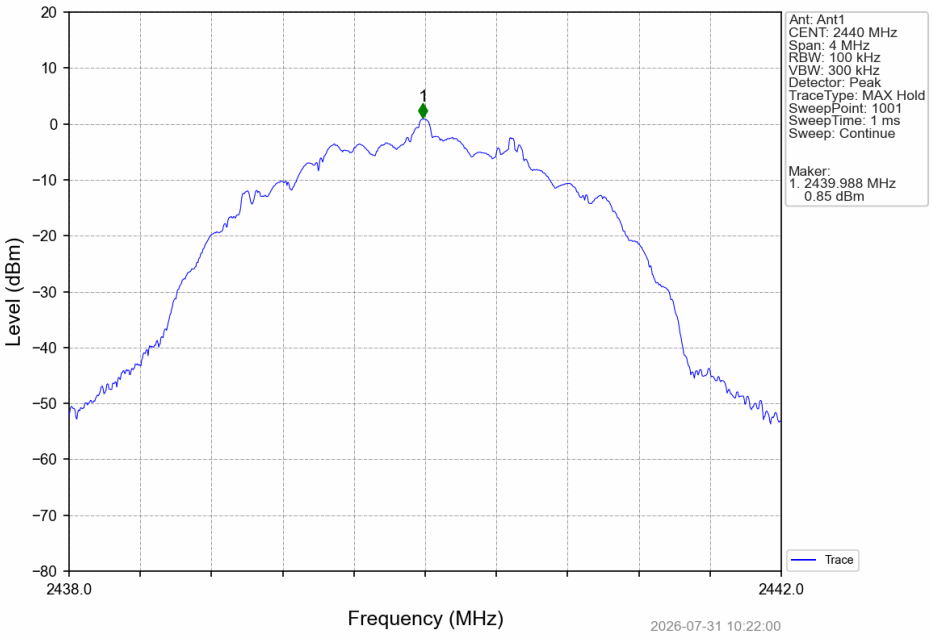
1M_HCH_2480MHz_Ant1_NTNV



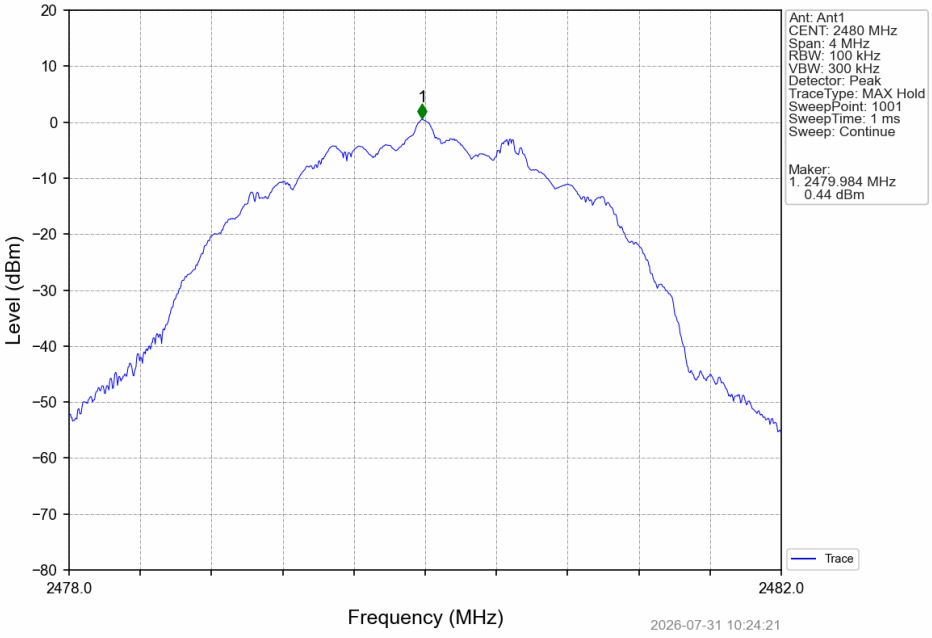
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV

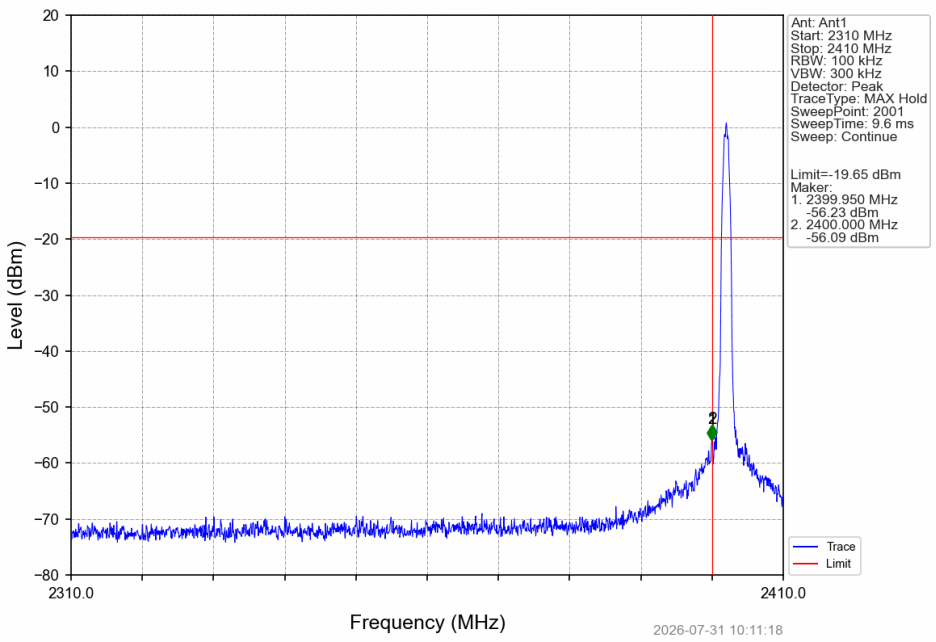


2M_HCH_2480MHz_Ant1_NTNV

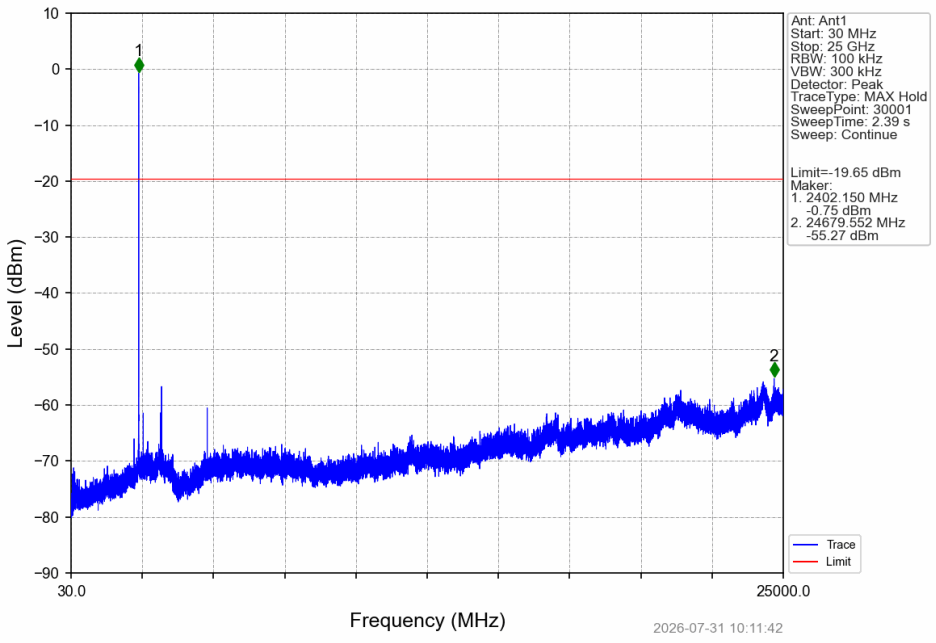


5.2.2 CSE

1M_LCH_2402MHz_Ant1_NTNV



1M_LCH_2402MHz_Ant1_NTNV



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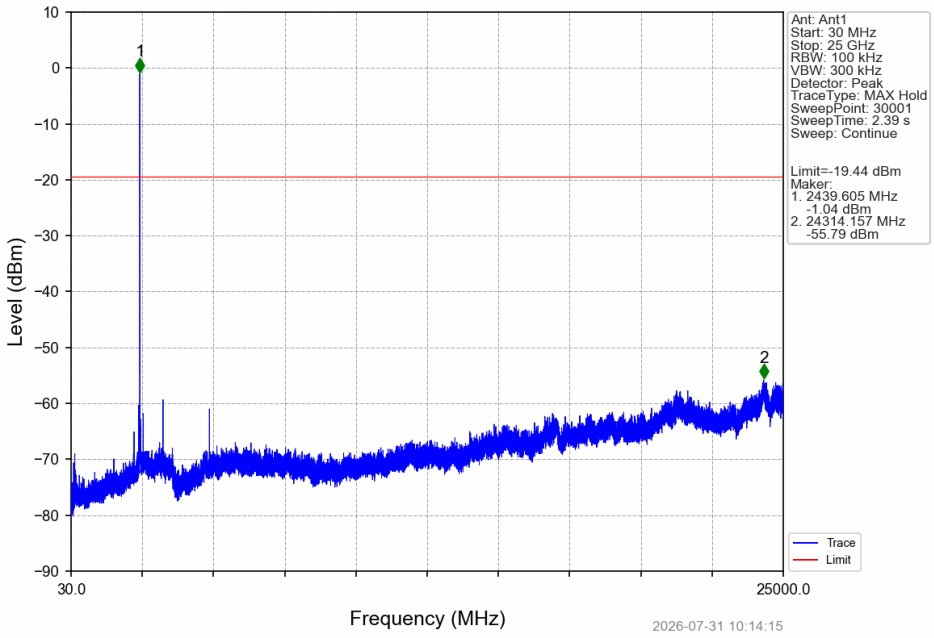
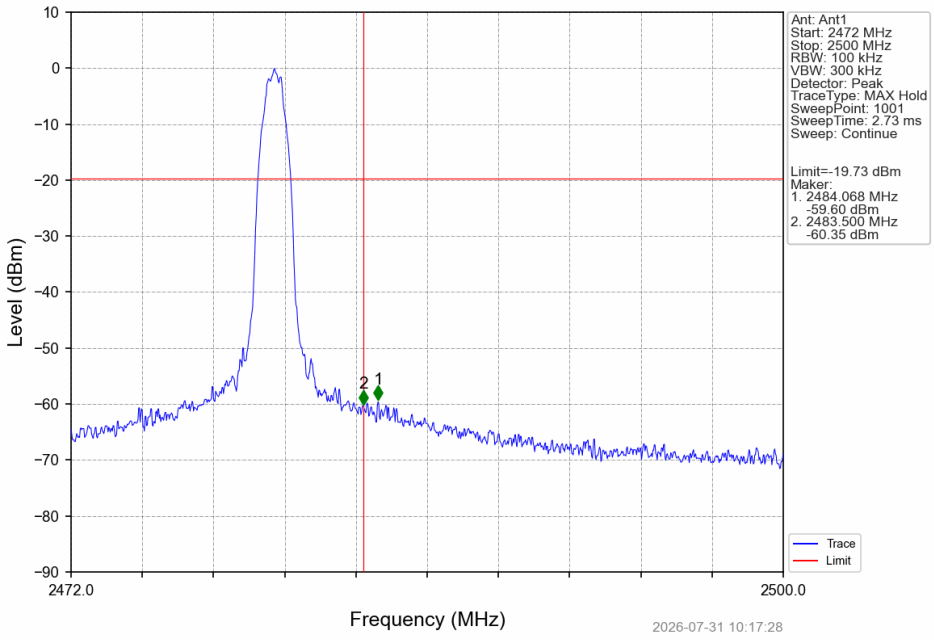
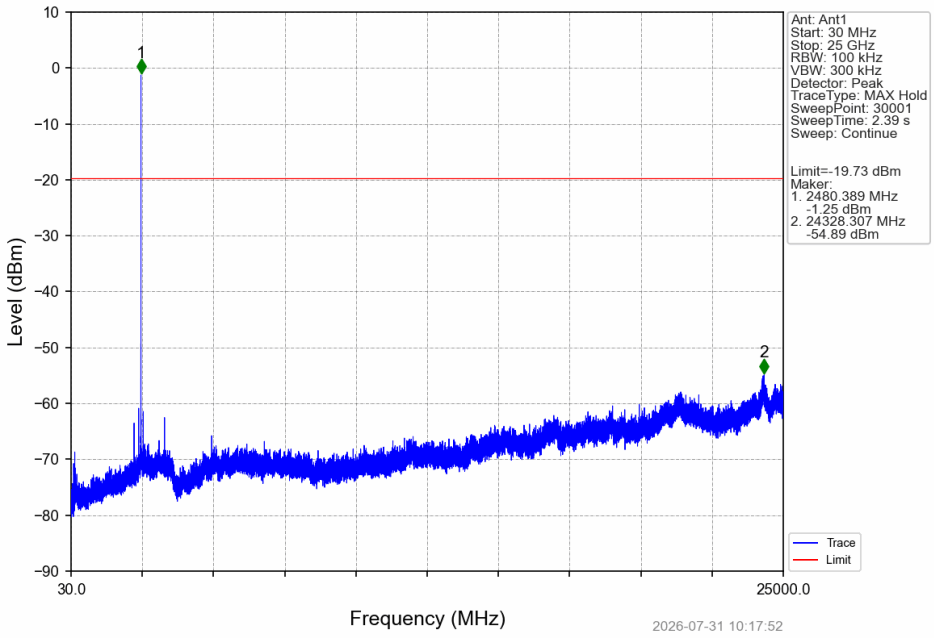


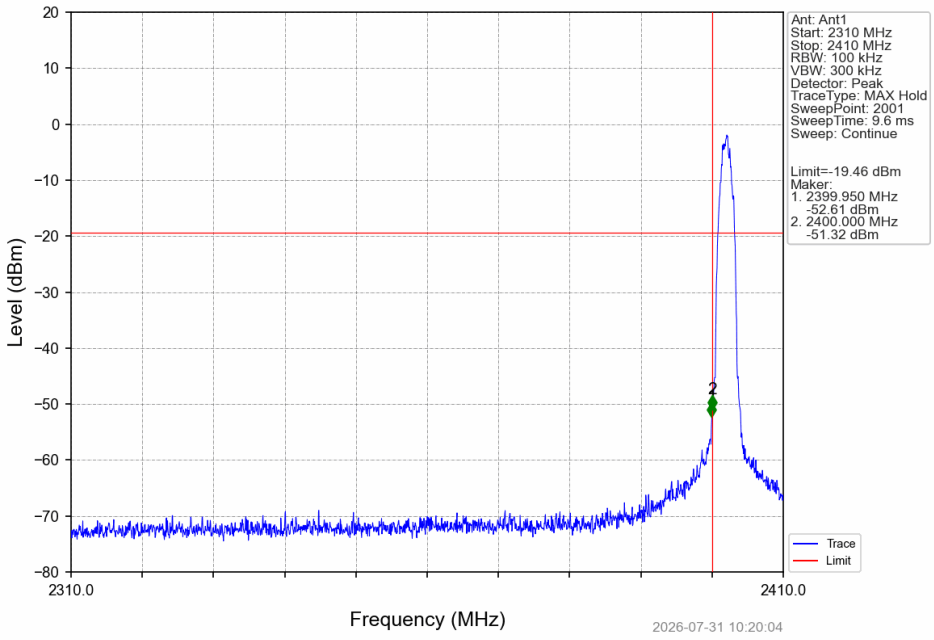
1M_HCH_2480MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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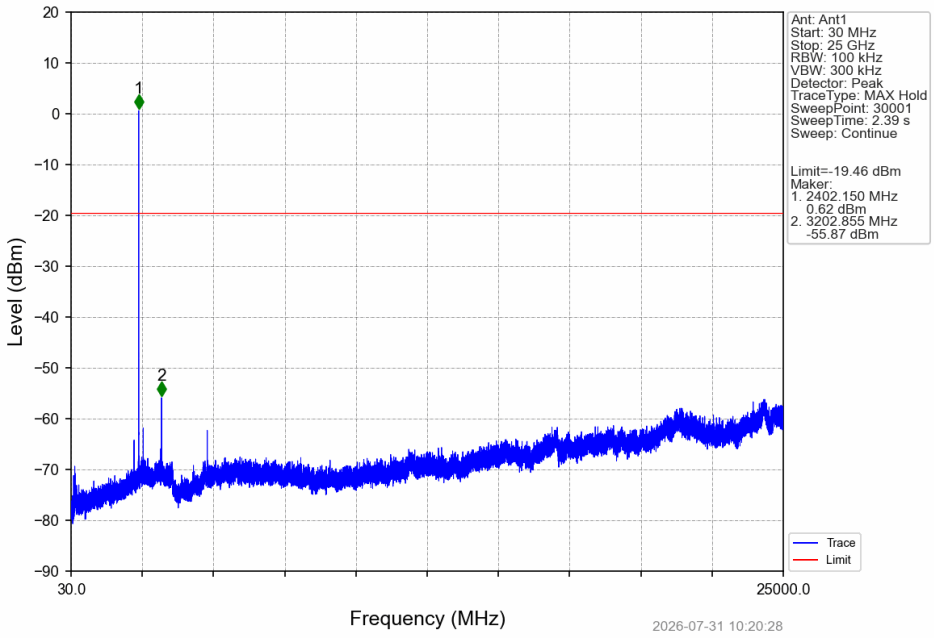

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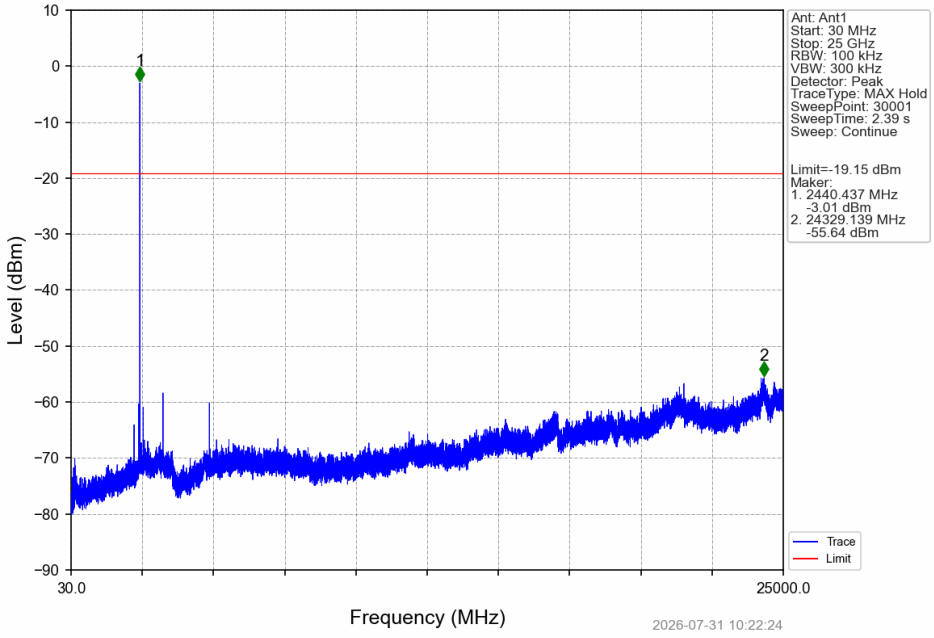
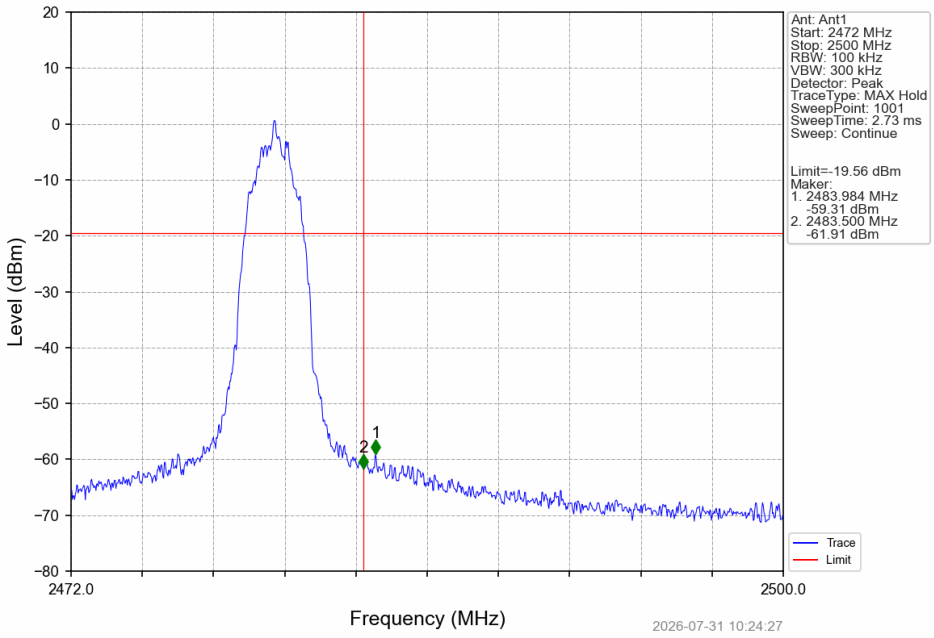
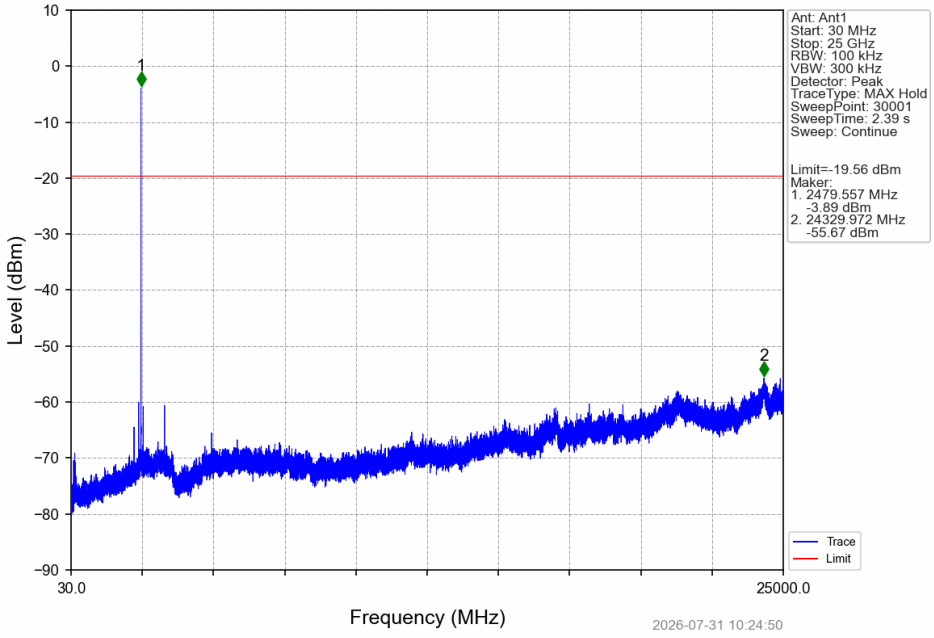


2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV