

Appendix RF test data for BLE

1. Duty Cycle

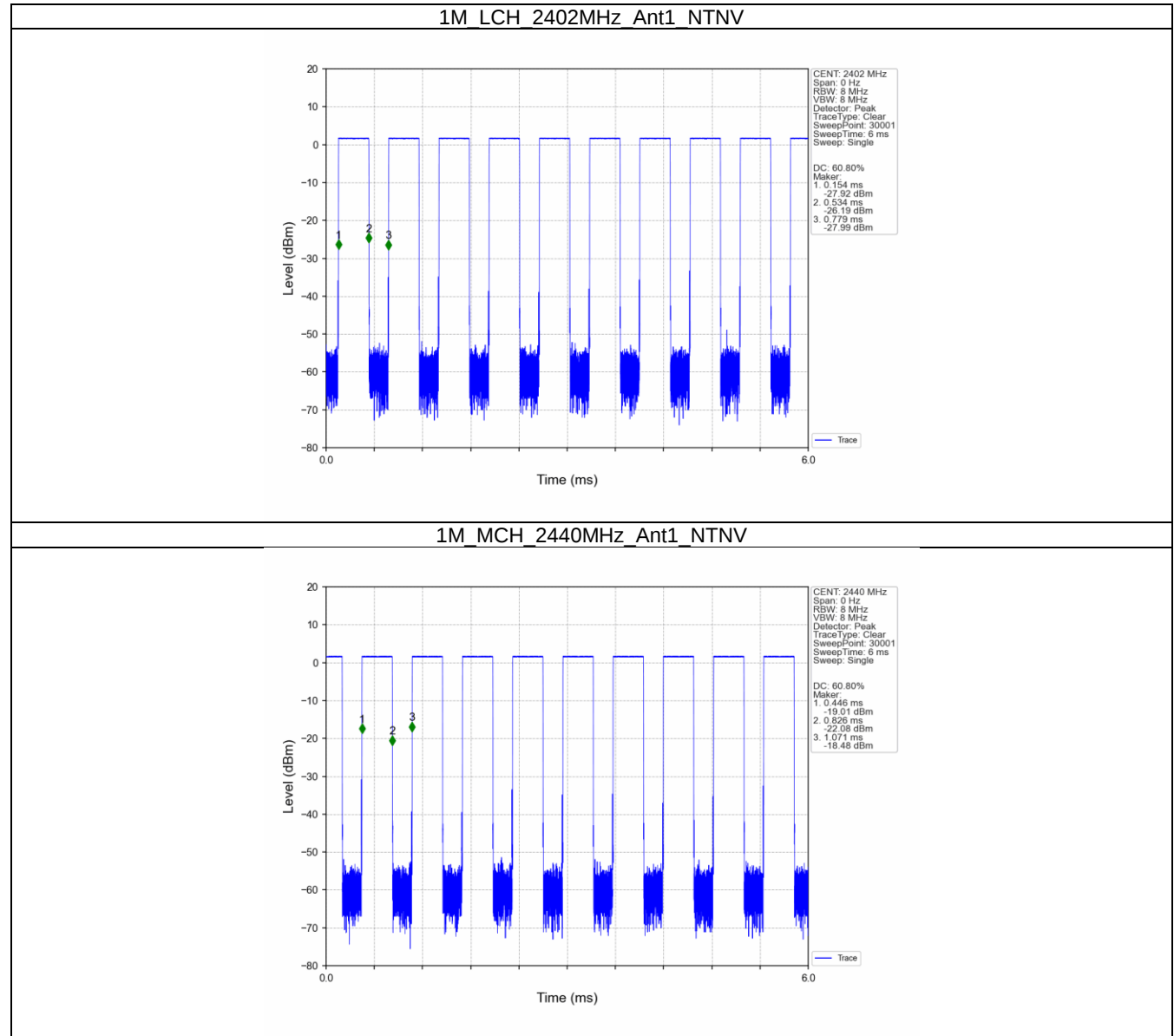
1.1 Test Result

1.1.1 Ant1

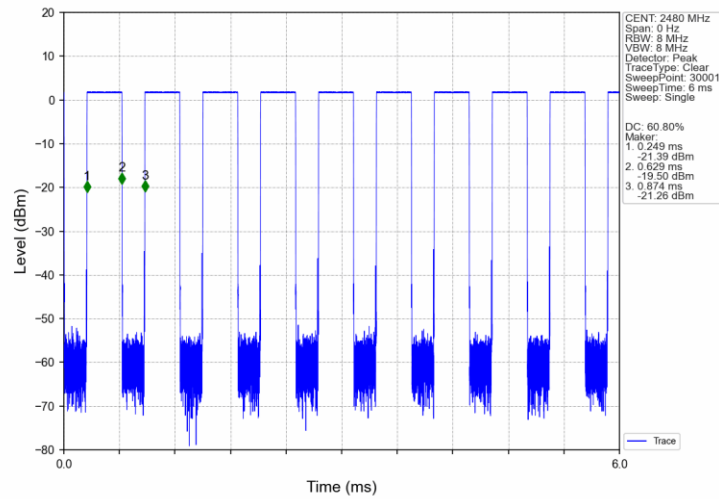
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.380	0.625	60.80	2.16	0.00
		2440	0.380	0.625	60.80	2.16	0.00
		2480	0.380	0.625	60.80	2.16	0.00
2M	SISO	2402	0.195	0.625	31.20	5.06	0.00
		2440	0.196	0.625	31.36	5.04	0.00
		2480	0.196	0.625	31.36	5.04	0.00

1.2 Test Graph

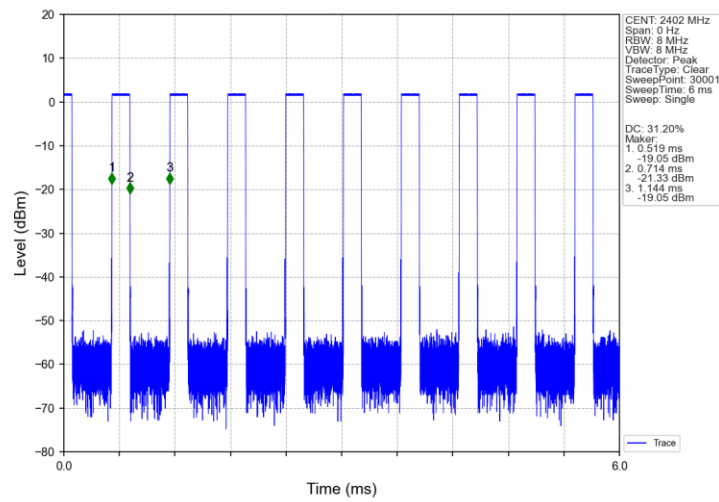
1.2.1 Ant1



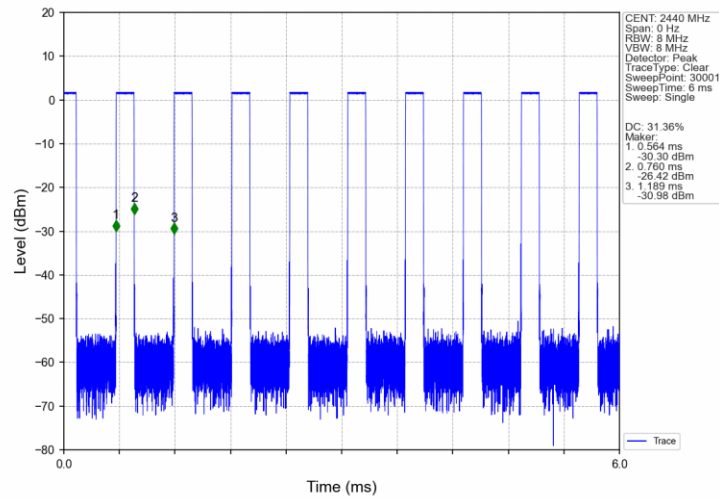
1M_HCH_2480MHz_Ant1_NTNV



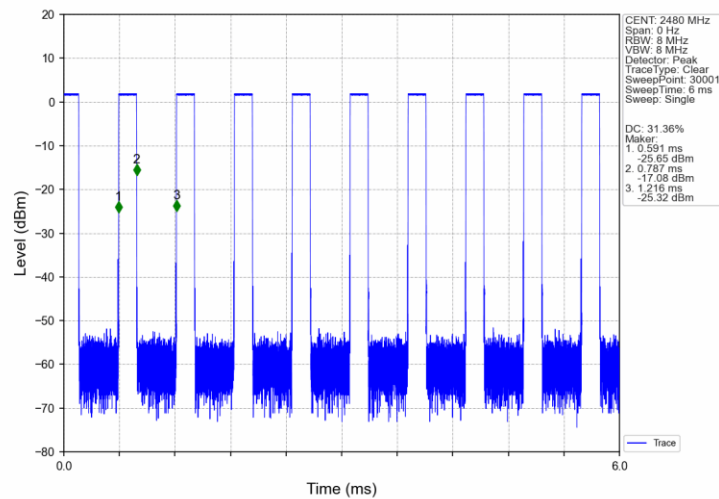
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

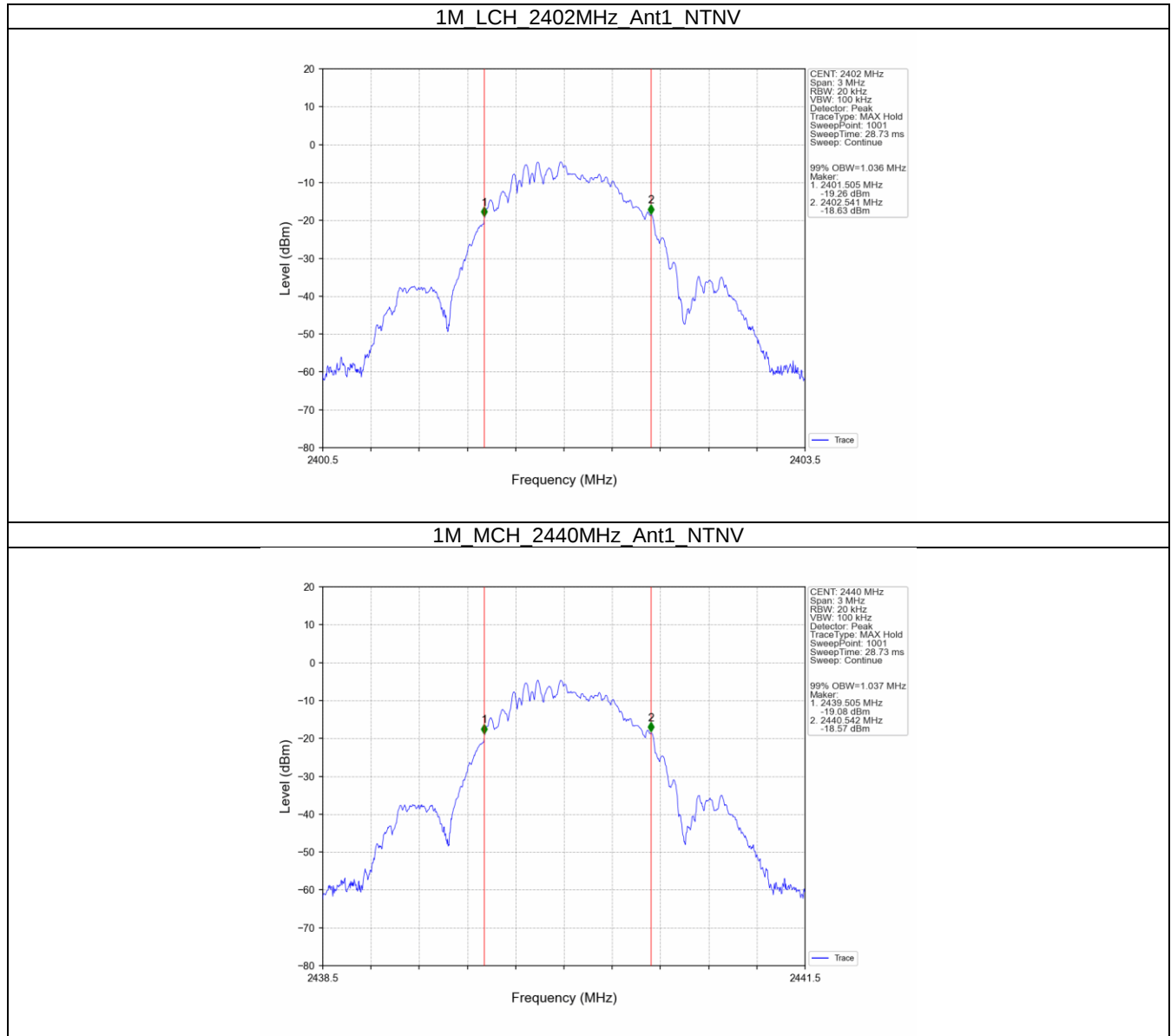
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.036	/	Pass
		2440	1	1.037	/	Pass
		2480	1	1.037	/	Pass
2M	SISO	2402	1	2.064	/	Pass
		2440	1	2.064	/	Pass
		2480	1	2.064	/	Pass

2.1.2 6dB BW

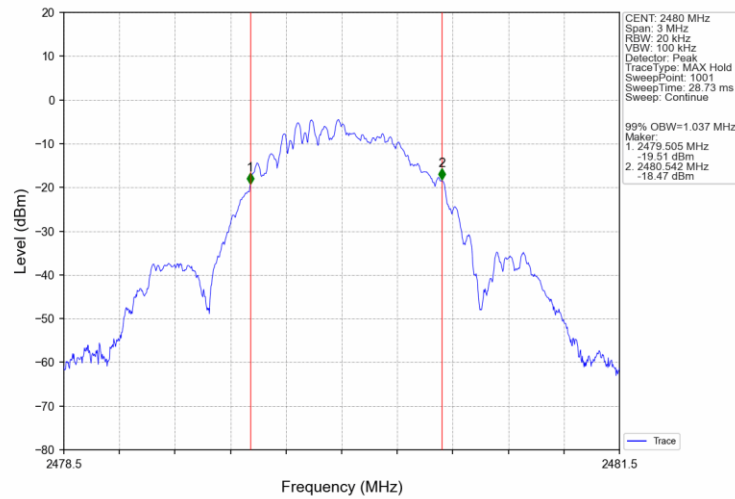
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.718	≥ 0.5	Pass
		2440	1	0.707	≥ 0.5	Pass
		2480	1	0.722	≥ 0.5	Pass
2M	SISO	2402	1	1.257	≥ 0.5	Pass
		2440	1	1.250	≥ 0.5	Pass
		2480	1	1.269	≥ 0.5	Pass

2.2 Test Graph

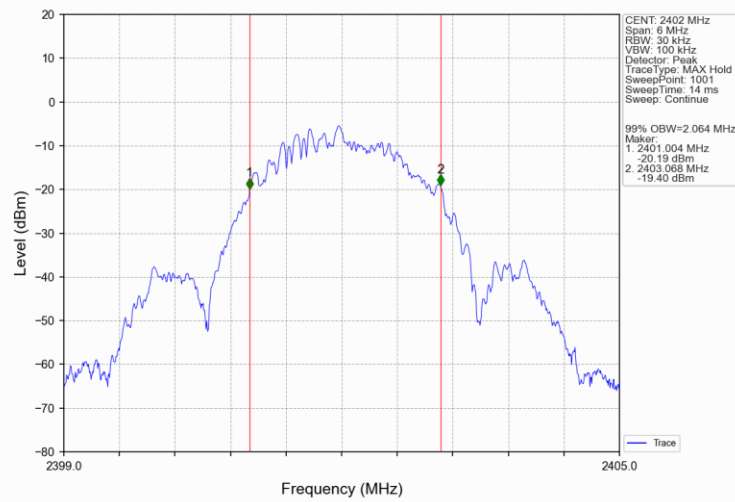
2.2.1 OBW



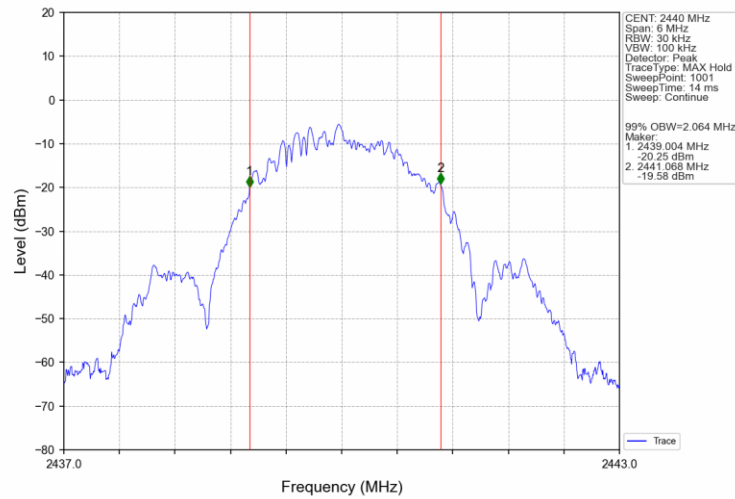
1M_HCH_2480MHz_Ant1_NTNV



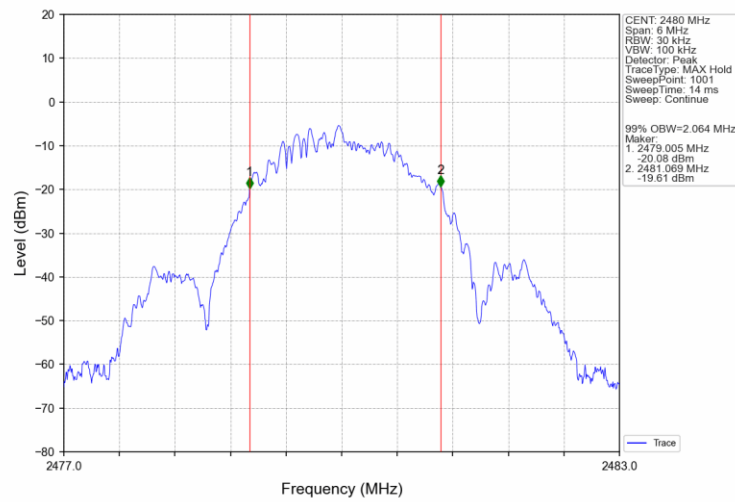
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV

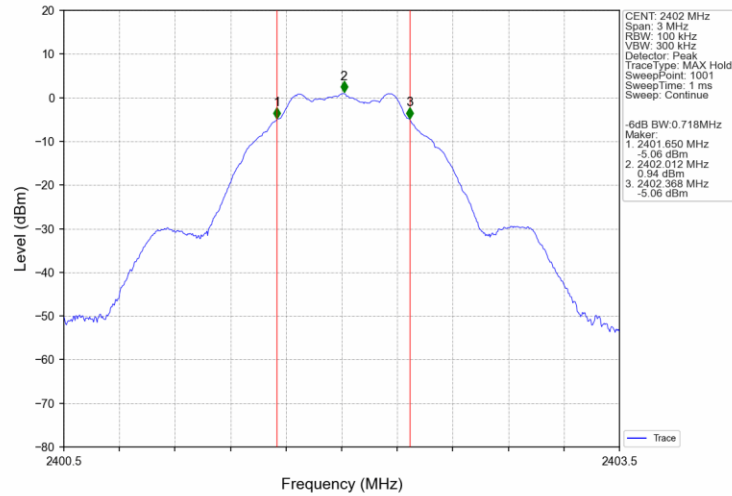


2M_HCH_2480MHz_Ant1_NTNV

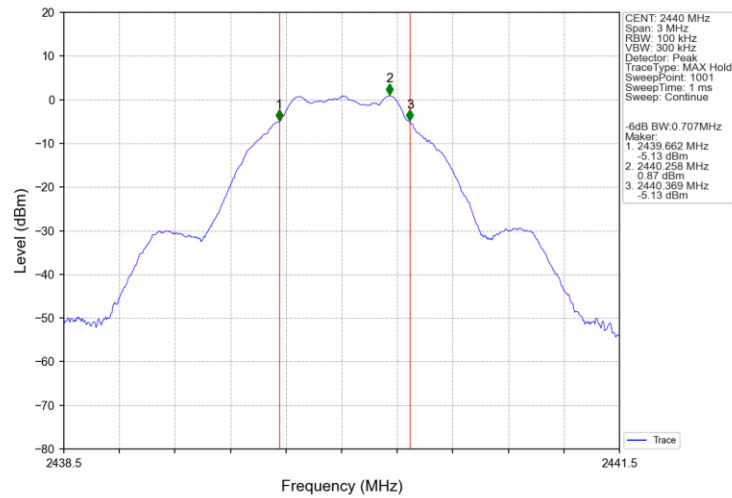


2.2.2 6dB BW

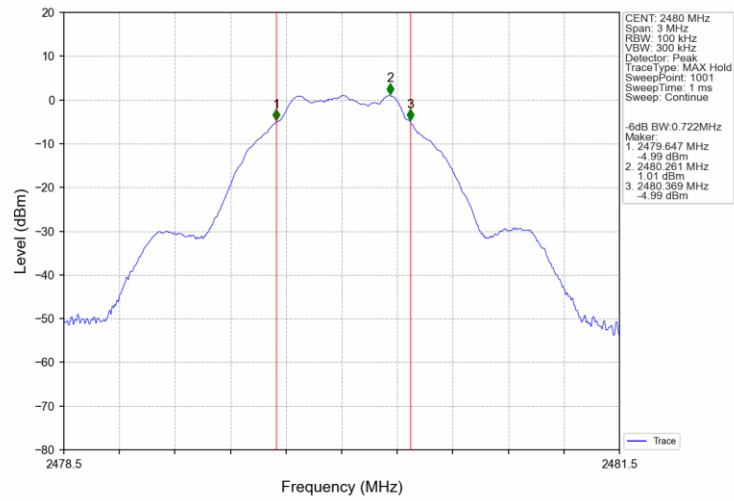
1M LCH 2402MHz Ant1 NTN



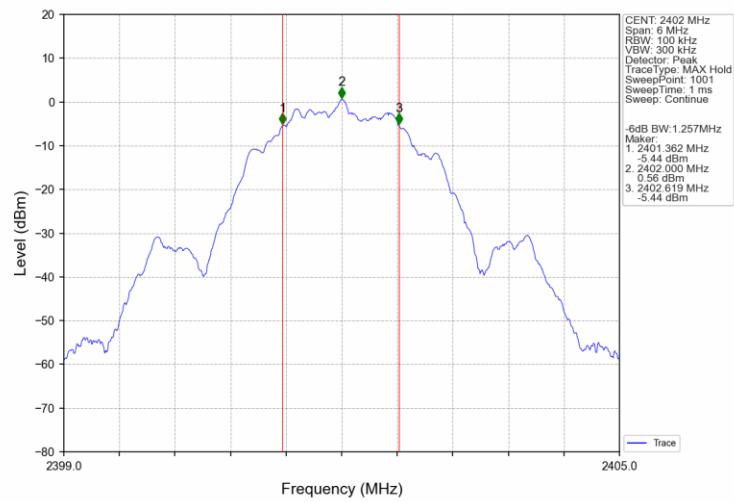
1M MCH 2440MHz Ant1 NTN



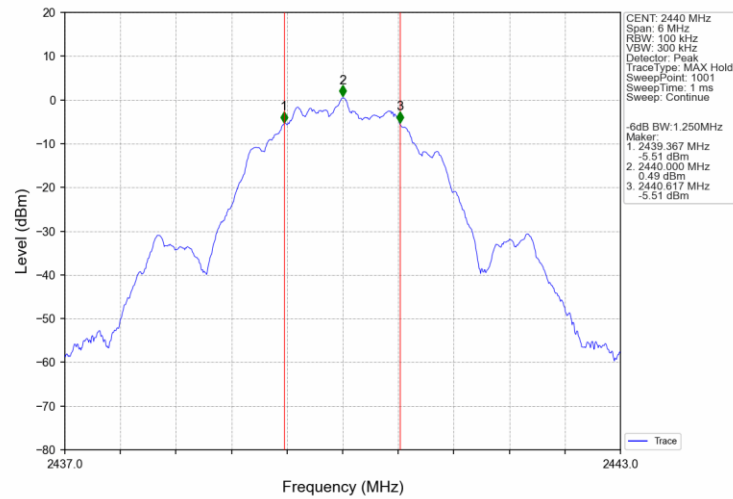
1M_HCH_2480MHz_Ant1_NTNV



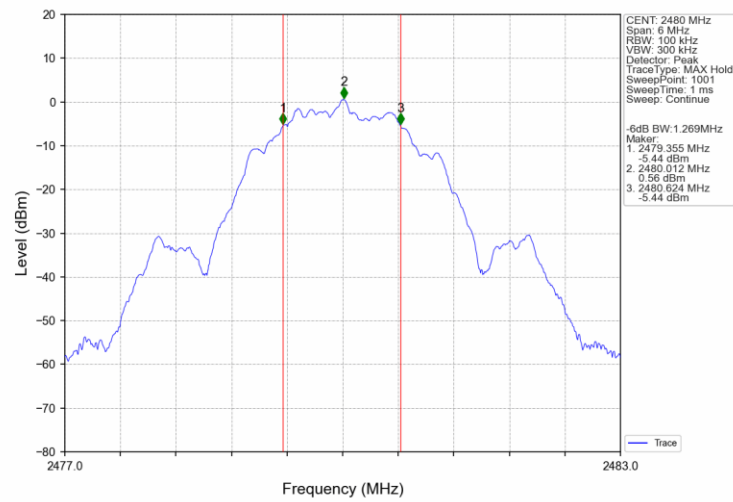
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



3. Maximum Conducted Output Power

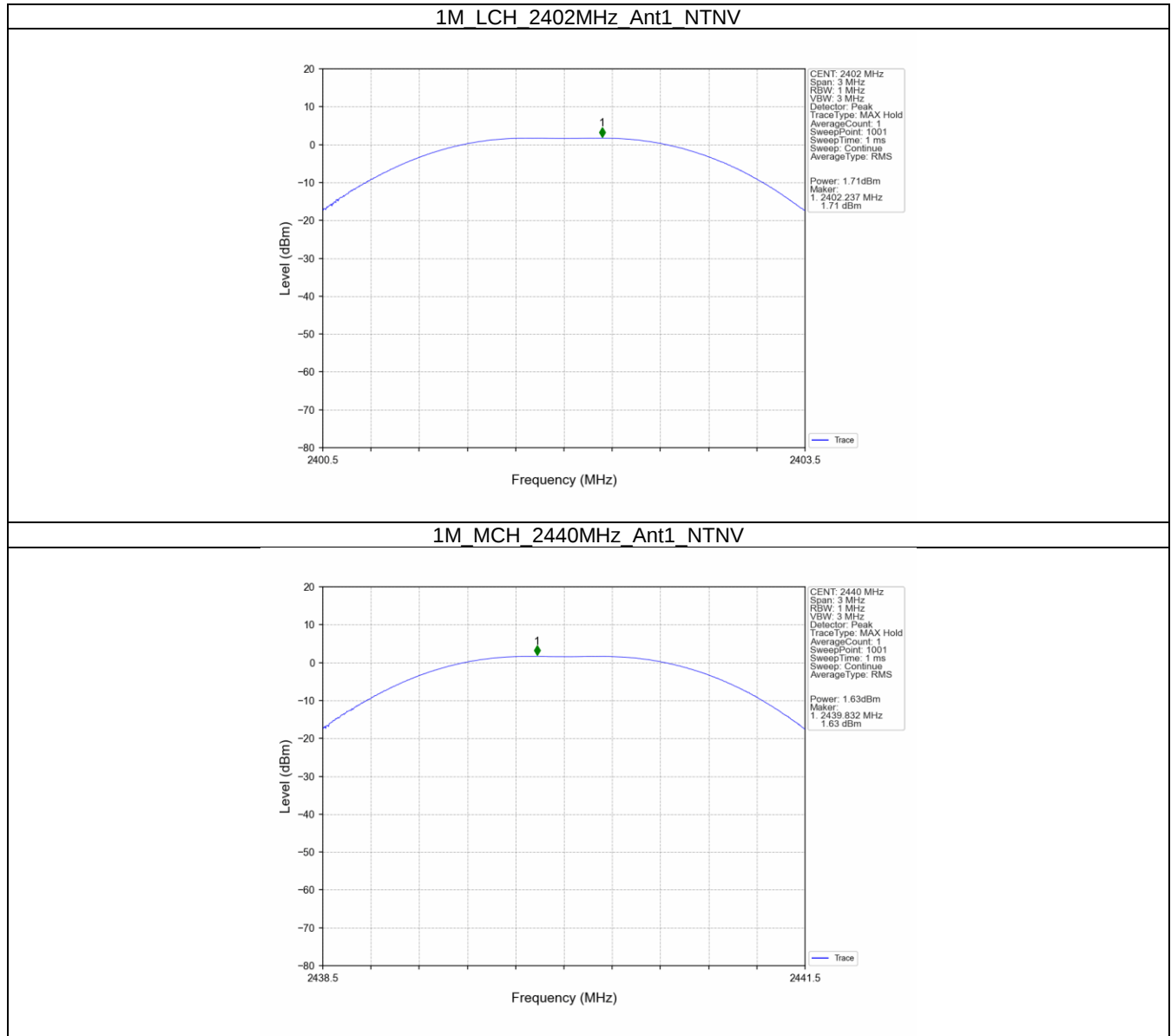
3.1 Test Result

3.1.1 Power

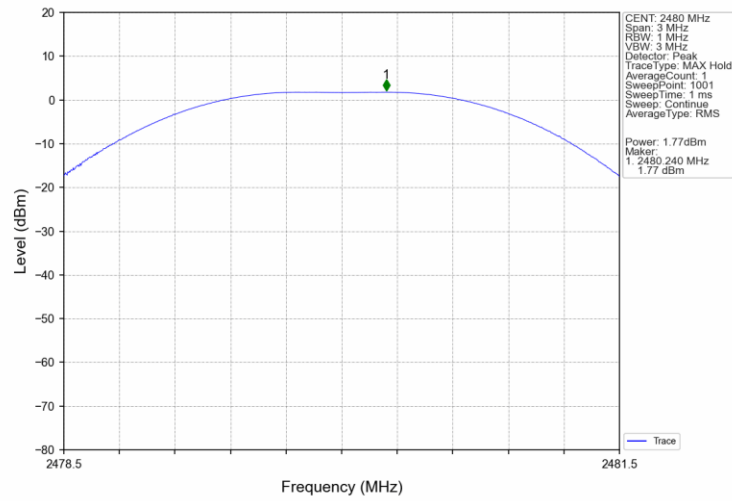
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.71	≤ 30	Pass
		2440	1.63	≤ 30	Pass
		2480	1.77	≤ 30	Pass
2M	SISO	2402	1.72	≤ 30	Pass
		2440	1.64	≤ 30	Pass
		2480	1.78	≤ 30	Pass

3.2 Test Graph

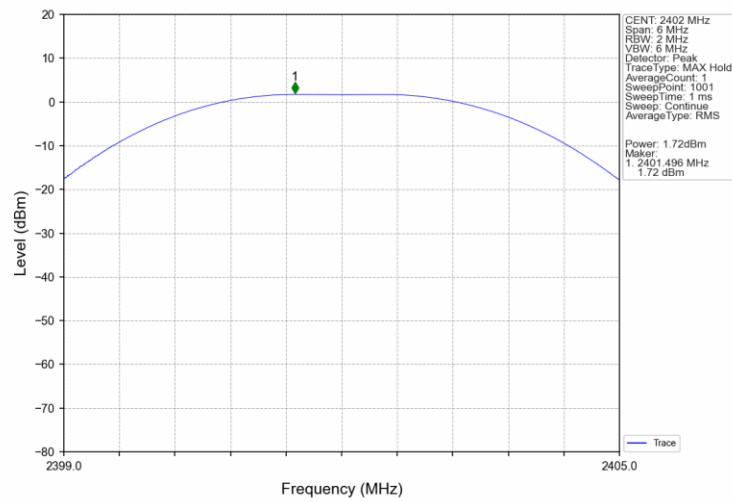
3.2.1 Power



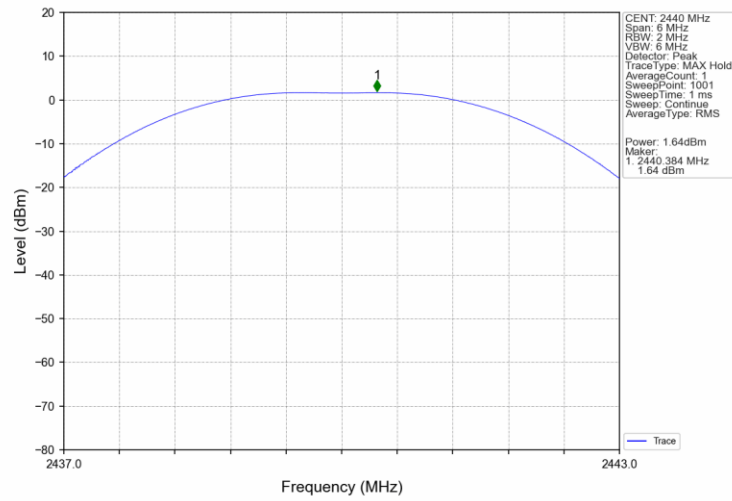
1M_HCH_2480MHz_Ant1_NTNV



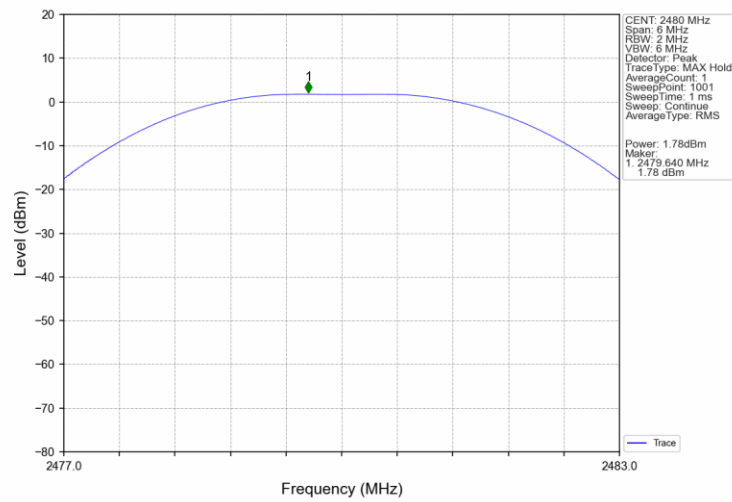
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



4. Maximum Power Spectral Density

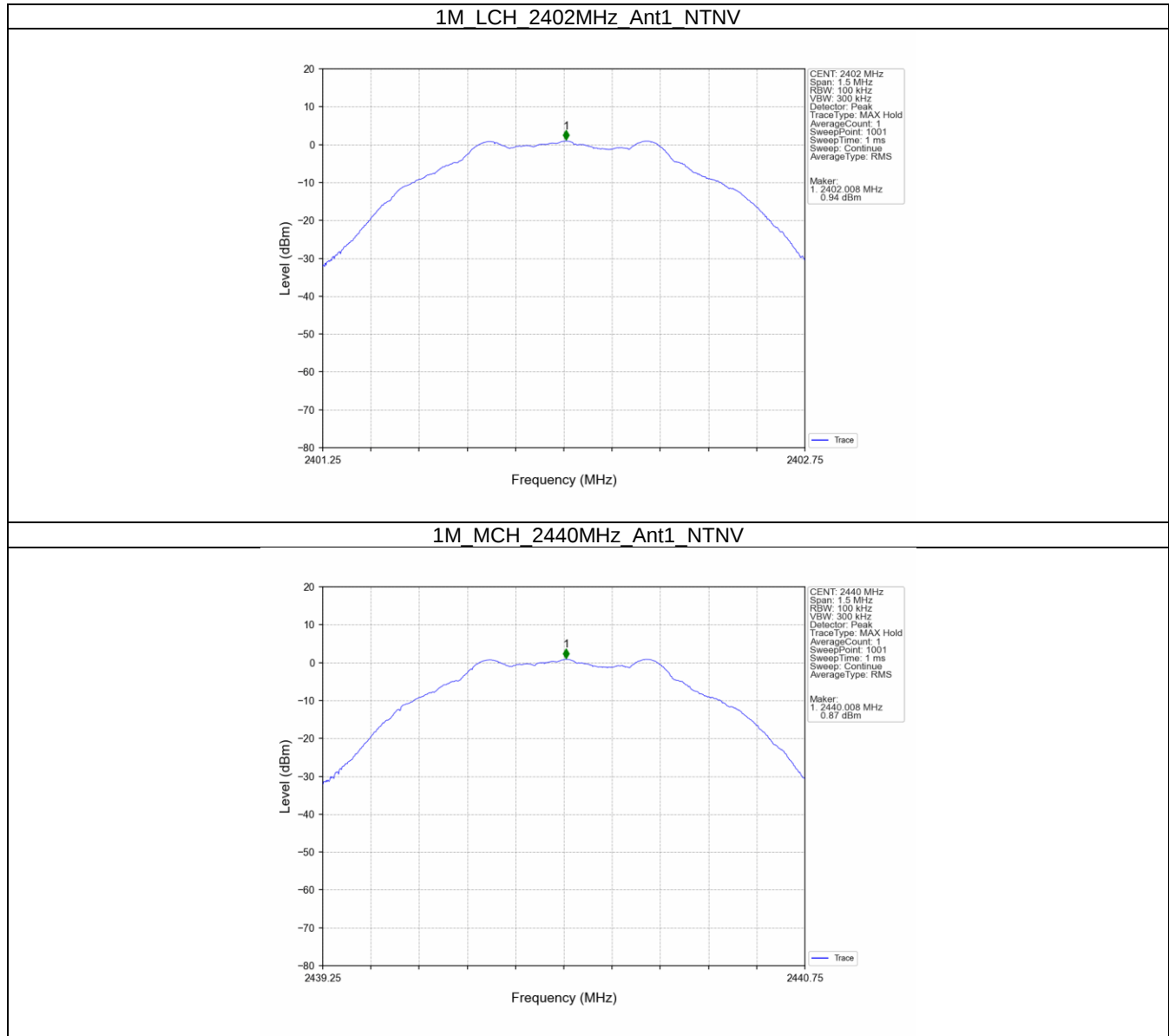
4.1 Test Result

4.1.1 PSD

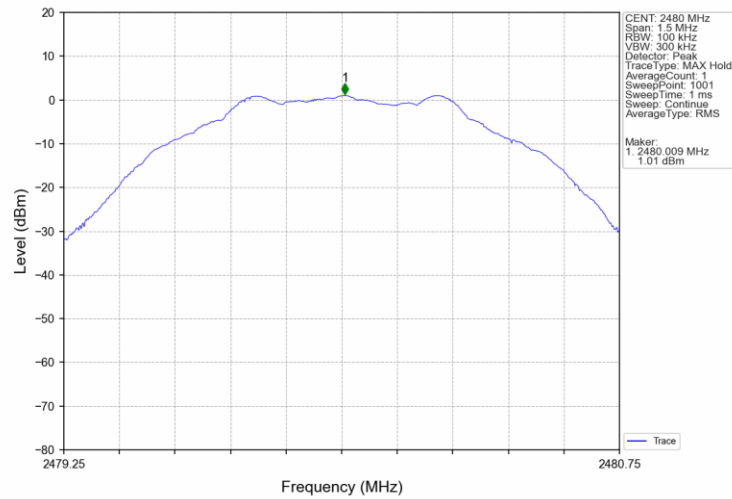
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	0.94dBm/100kHz	<=8	Pass
		2440	0.87dBm/100kHz	<=8	Pass
		2480	1.01dBm/100kHz	<=8	Pass
2M	SISO	2402	0.55dBm/100kHz	<=8	Pass
		2440	0.45dBm/100kHz	<=8	Pass
		2480	0.60dBm/100kHz	<=8	Pass

4.2 Test Graph

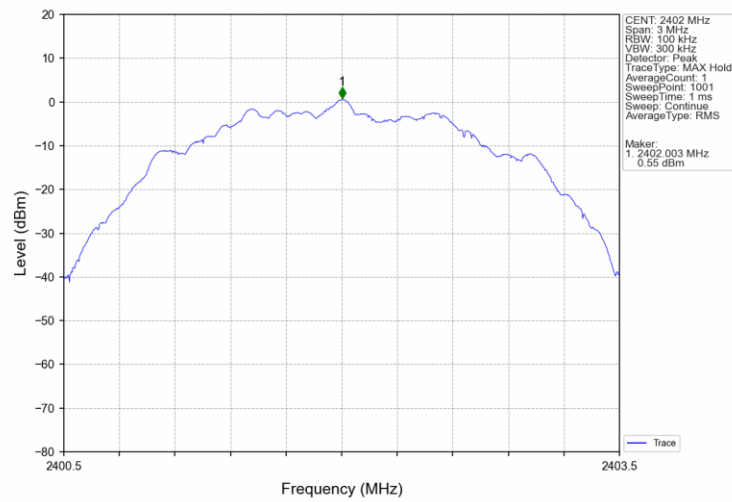
4.2.1 PSD



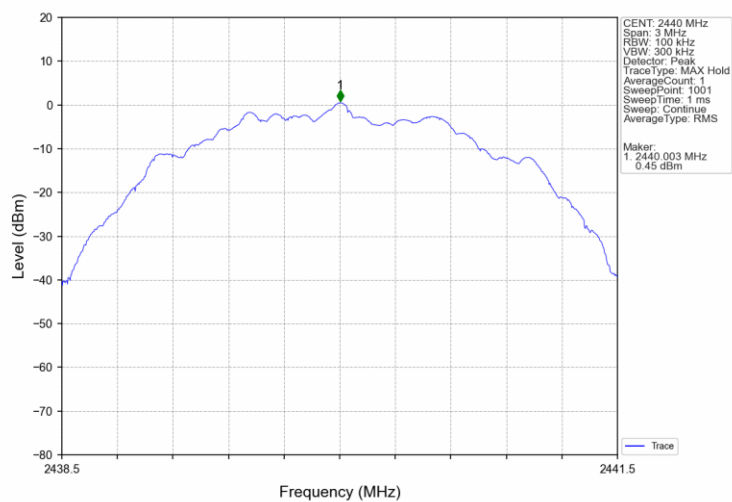
1M_HCH_2480MHz_Ant1_NTNV



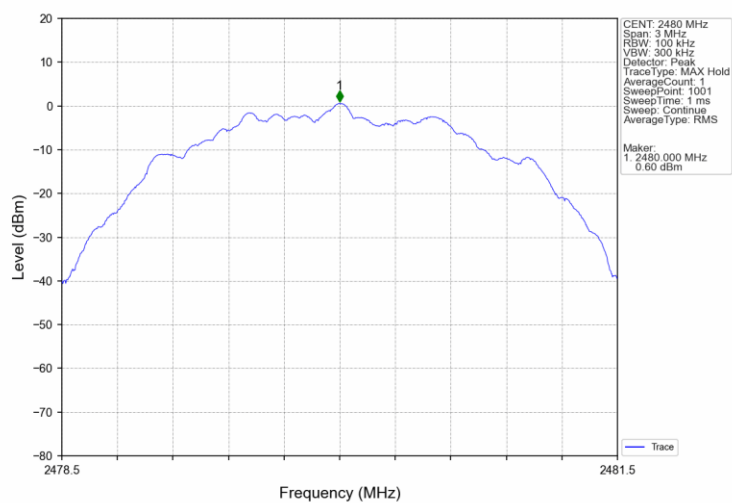
2M_LCH_2402MHz_Ant1_NTNV



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

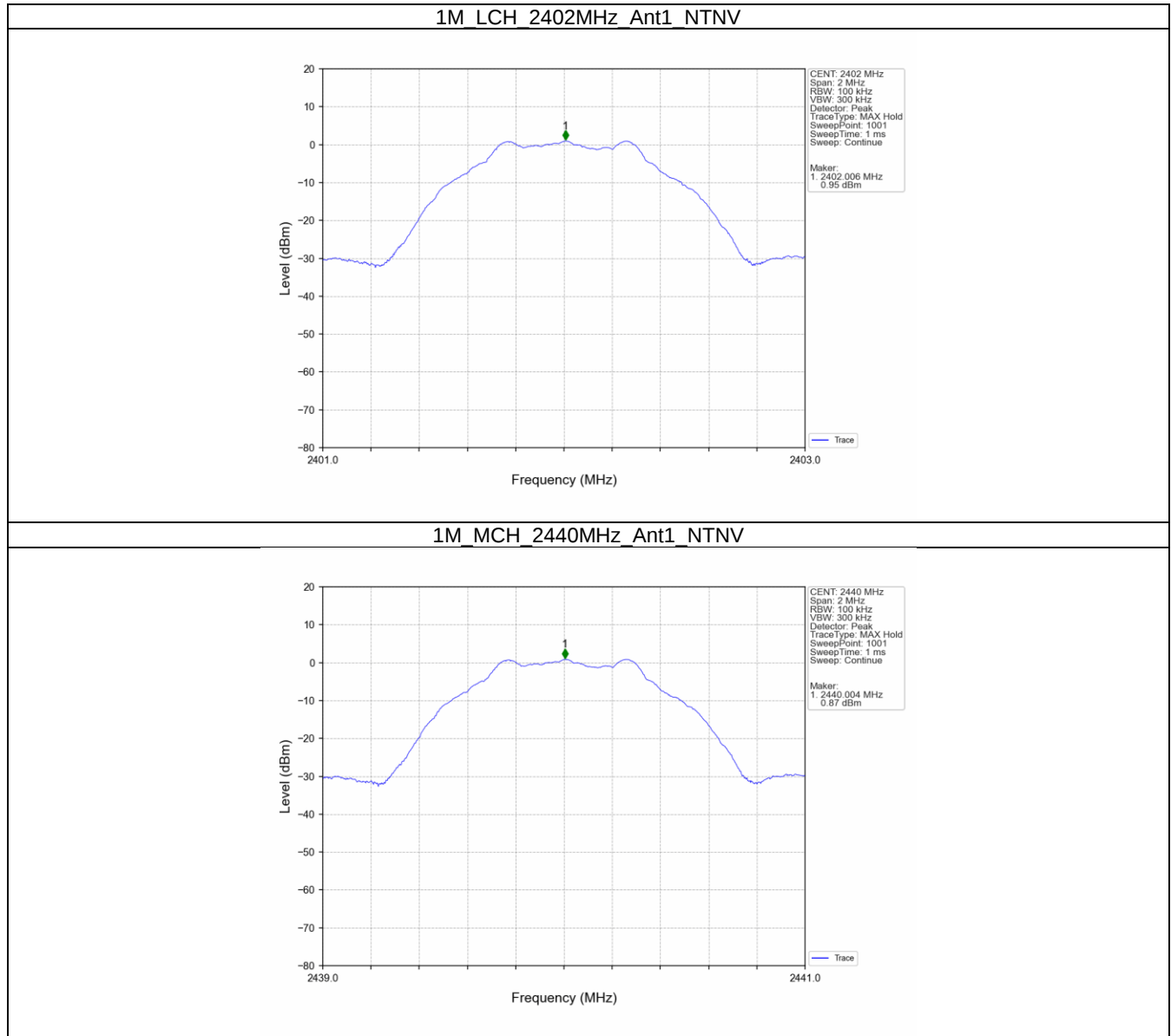
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	0.95
		2440	1	0.87
		2480	1	1.01
2M	SISO	2402	1	0.54
		2440	1	0.43
		2480	1	0.60

5.1.2 CSE

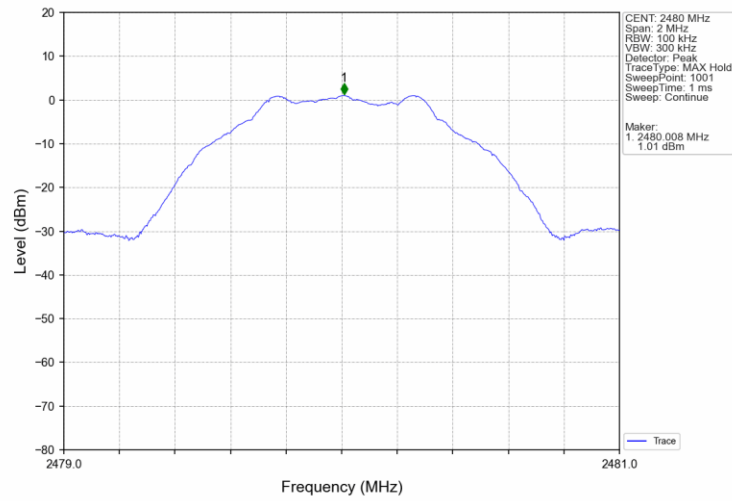
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.95	-19.05	Pass
		2440	1	0.87	-19.13	Pass
		2480	1	1.01	-18.99	Pass
2M	SISO	2402	1	0.54	-19.46	Pass
		2440	1	0.43	-19.57	Pass
		2480	1	0.60	-19.40	Pass

5.2 Test Graph

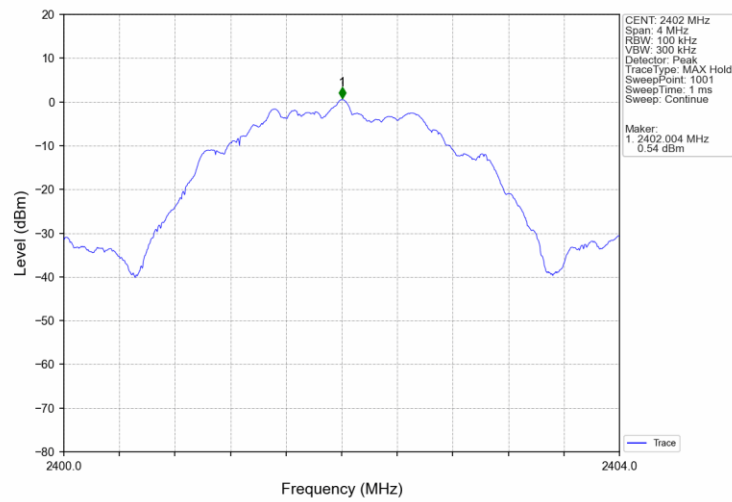
5.2.1 Ref



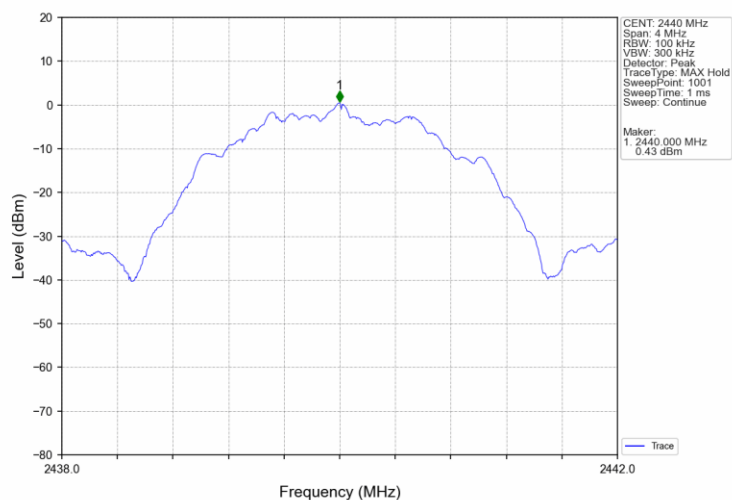
1M_HCH_2480MHz_Ant1_NTNV



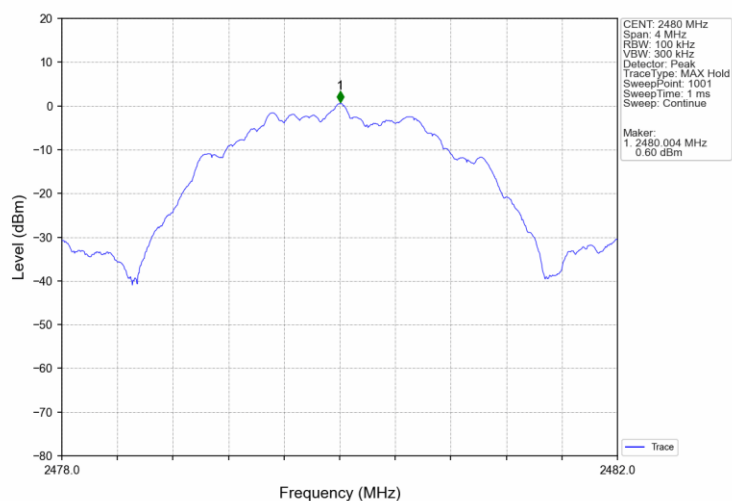
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV

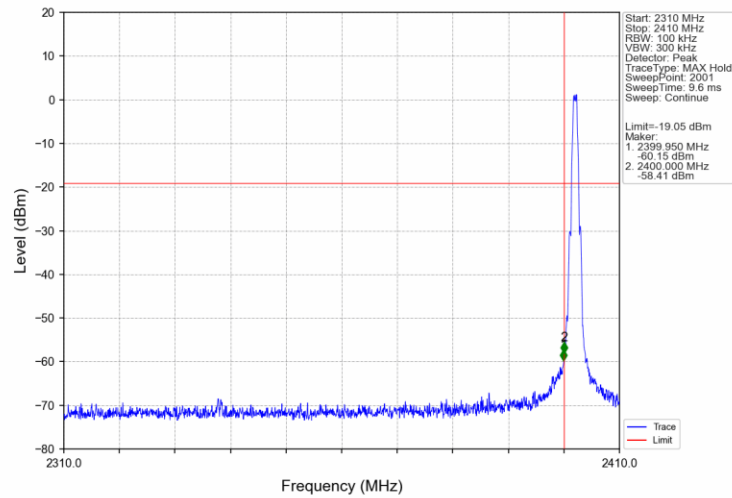


2M_HCH_2480MHz_Ant1_NTNV

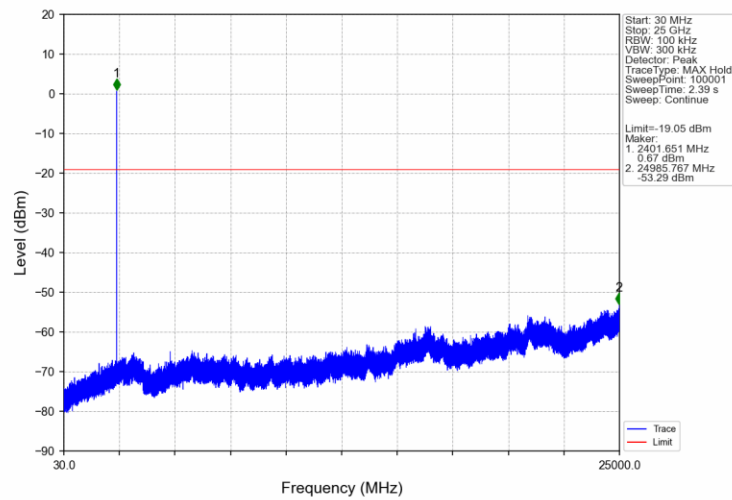


5.2.2 CSE

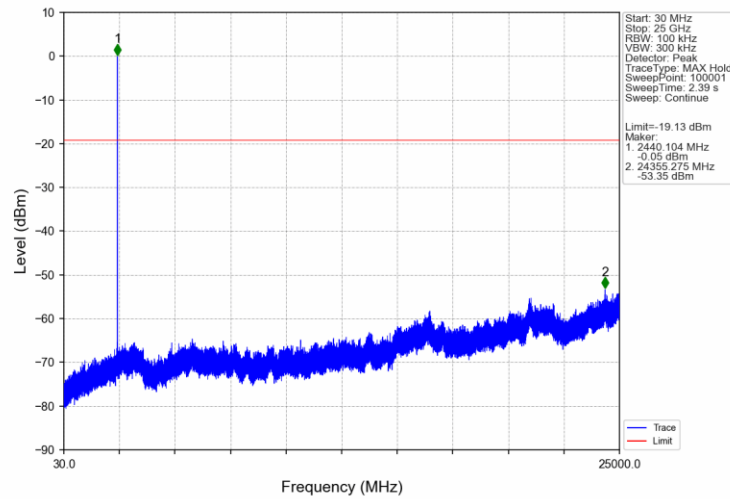
1M LCH 2402MHz Ant1 NTN



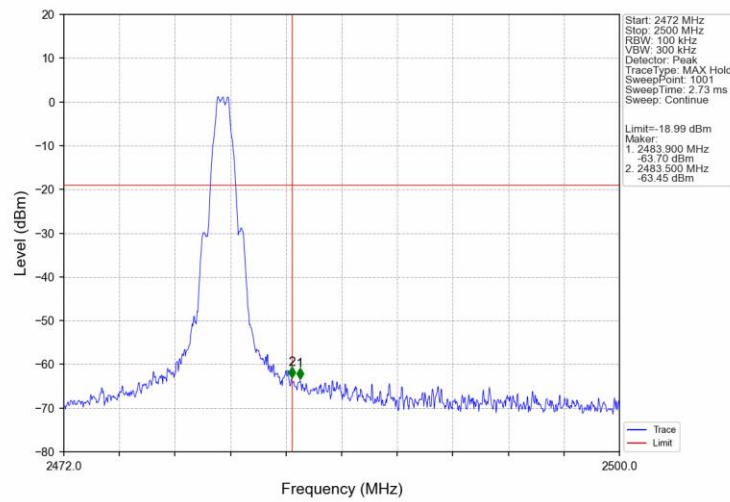
1M LCH 2402MHz Ant1 NTN



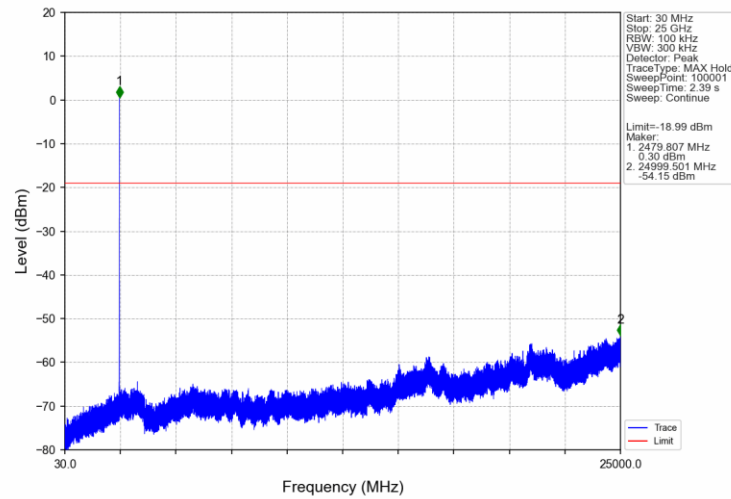
1M_MCH_2440MHz_Ant1_NTNV



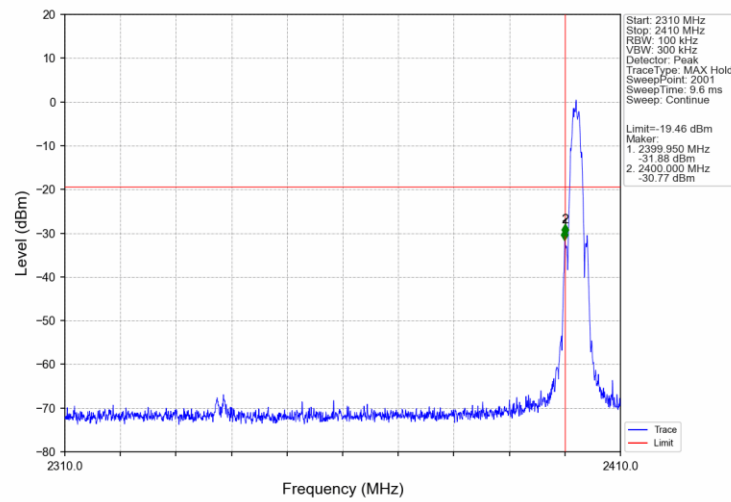
1M_HCH_2480MHz_Ant1_NTNV



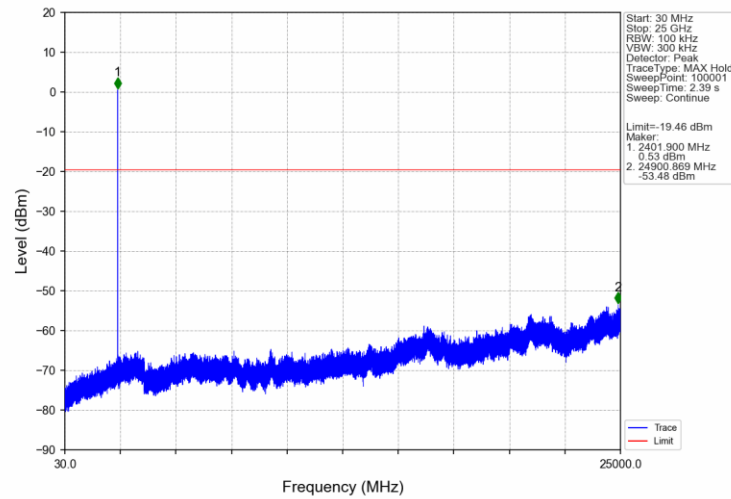
1M_HCH_2480MHz_Ant1_NTNV



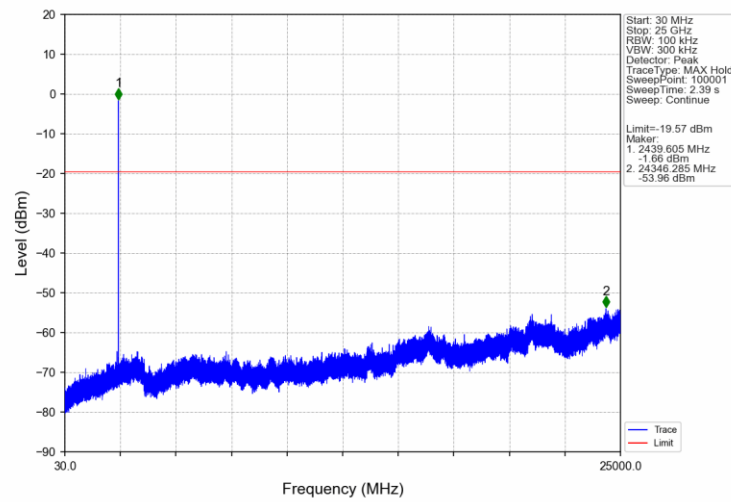
2M_LCH_2402MHz_Ant1_NTNV



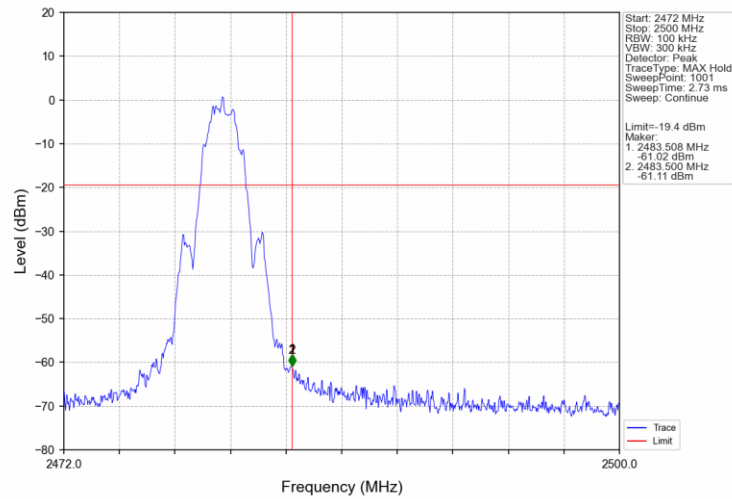
2M_LCH_2402MHz_Ant1_NTNV



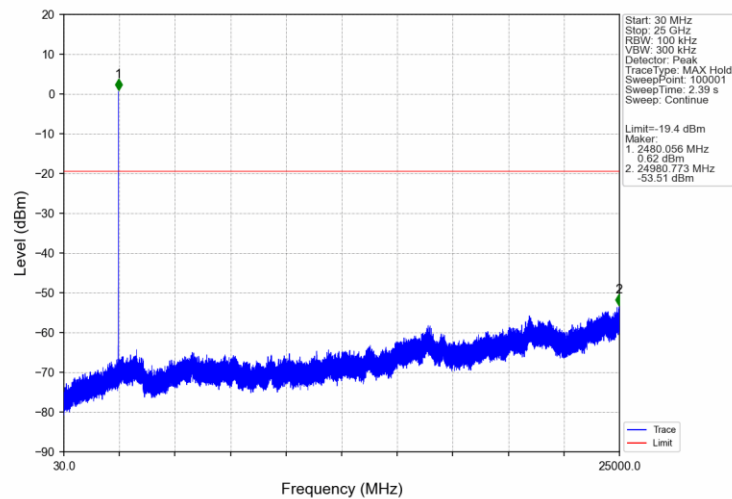
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0015	1.78

***** End of Report *****