ANNEX E TEST DATA

For

Project No.:	8333EU011811W
Client:	SHENZHEN ELECTRON TECHNOLOGY CO., LTD.
Product Description:	Android Digital Signage
Model No.:	WL1539T
FCC ID:	2ABC5-E0102
Technology:	Bluetooth BLE
Test Engineer:	Mikey zhu
Test Date:	2025-09-02

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass

1. Duty Cycle

1.1 Test Result

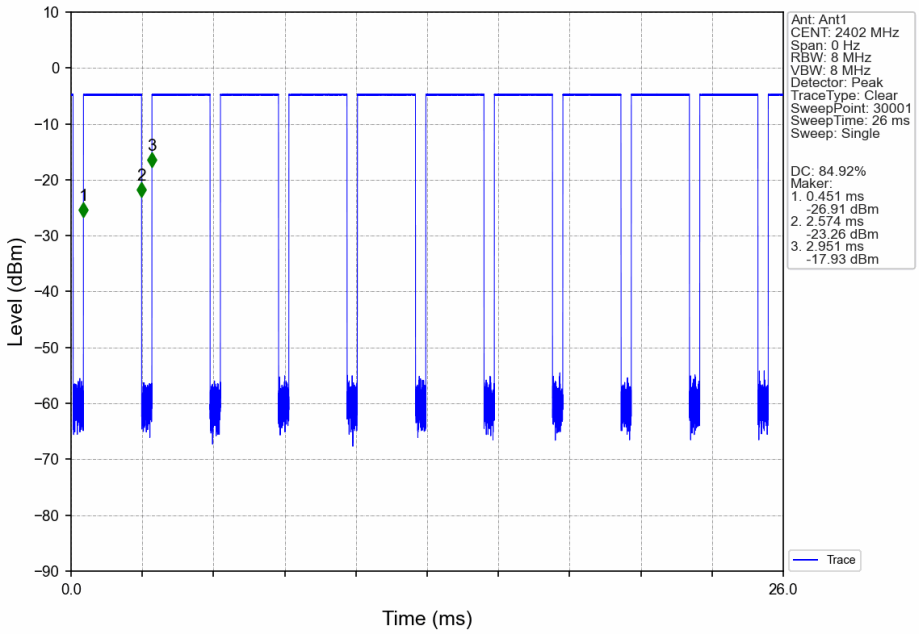
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	2.123	2.500	84.92	0.71	0.03
		2440	2.123	2.500	84.92	0.71	0.03
		2480	2.124	2.501	84.93	0.71	0.03
2M	SISO	2402	1.065	1.874	56.83	2.45	0.03
		2440	1.065	1.874	56.83	2.45	0.01
		2480	1.066	1.875	56.85	2.45	0.03

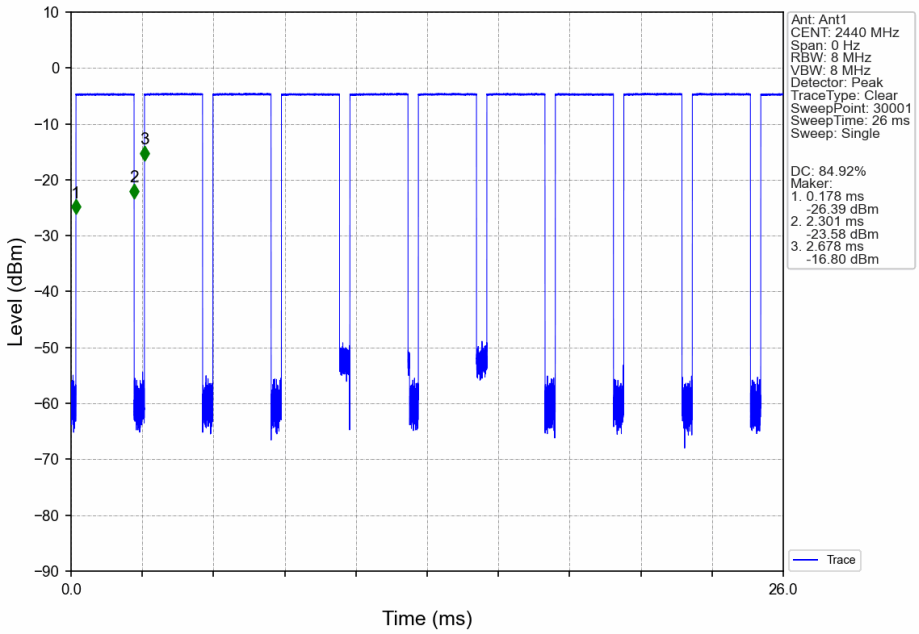
1.2 Test Graph

1.2.1 Ant1

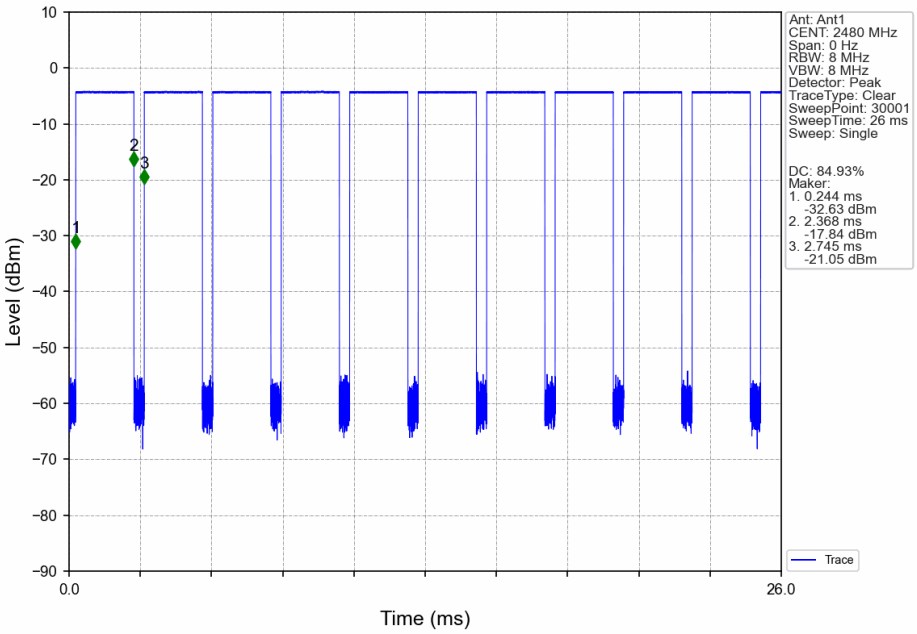
1M_LCH_2402MHz_Ant1_NTNV



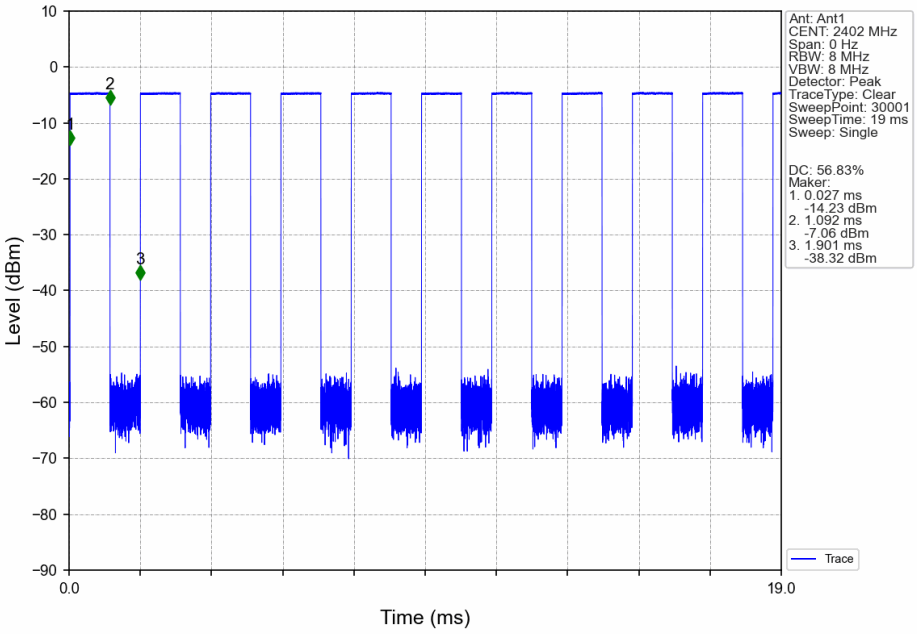
1M_MCH_2440MHz_Ant1_NTNV



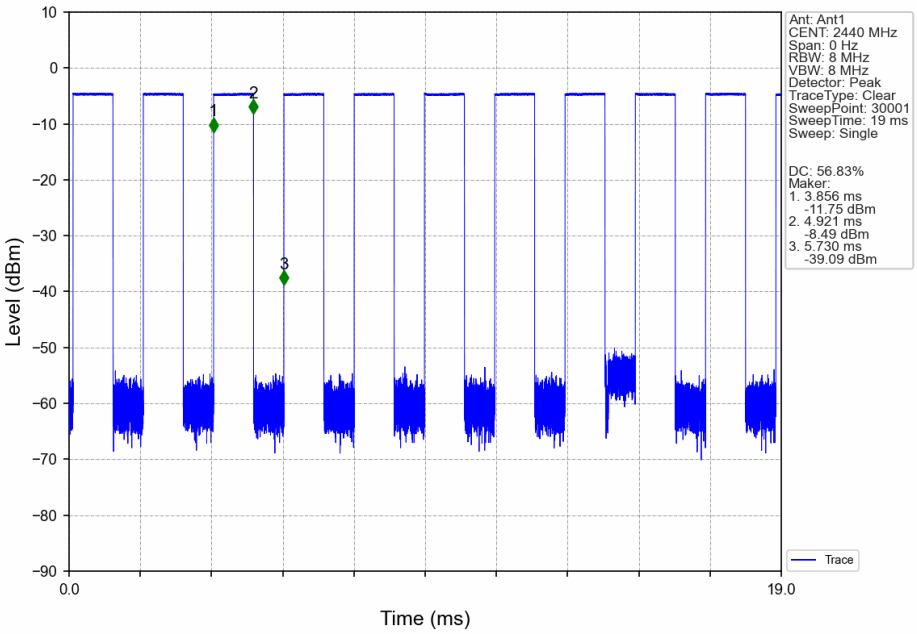
1M_HCH_2480MHz_Ant1_NTNV



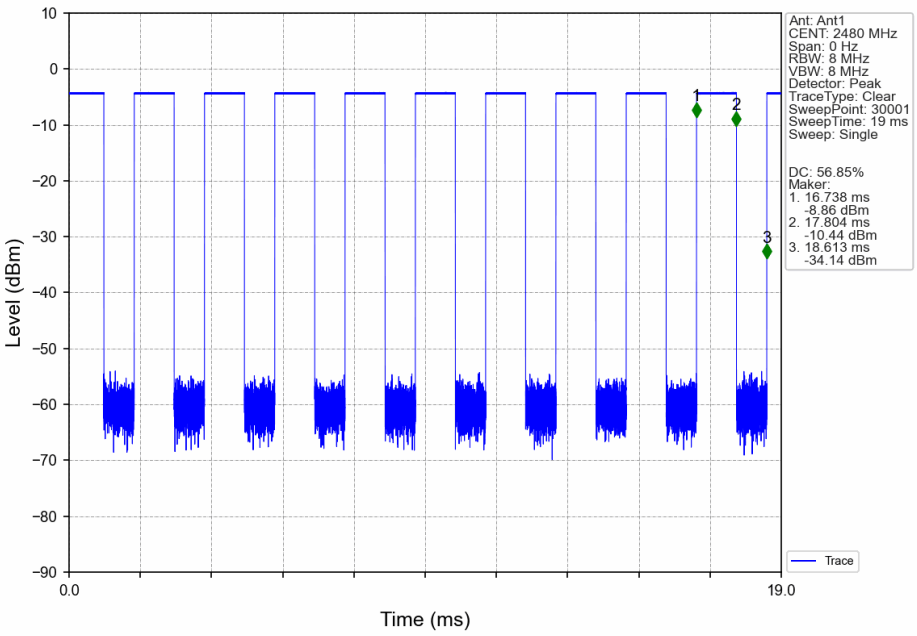
2M_LCH_2402MHz_Ant1_NTNV



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	1.027	/	Pass
		2440	1	1.027	/	Pass
		2480	1	1.027	/	Pass
2M	SISO	2402	1	2.064	/	Pass
		2440	1	2.067	/	Pass
		2480	1	2.071	/	Pass

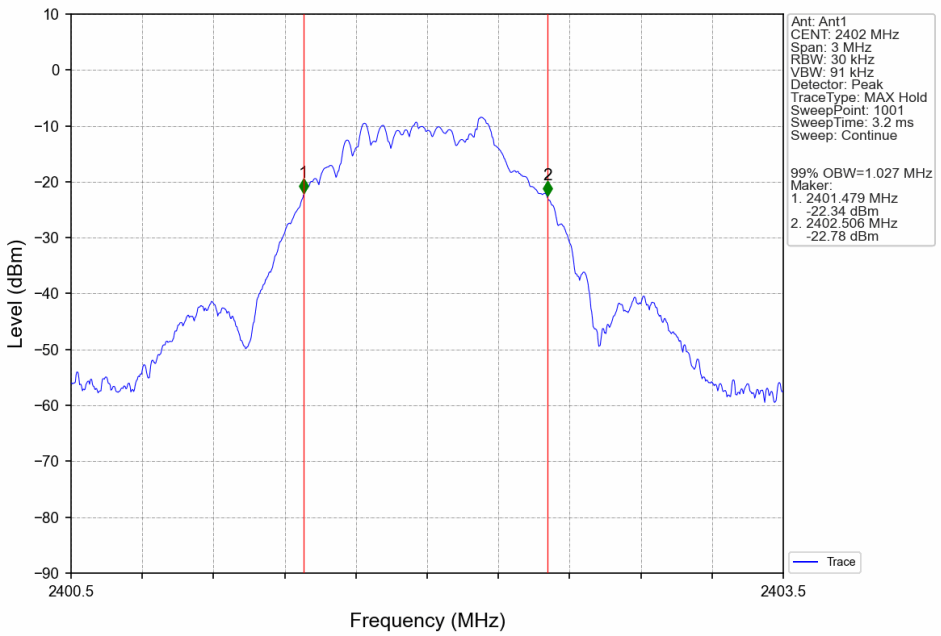
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.675	>=0.5	Pass
		2440	1	0.669	>=0.5	Pass
		2480	1	0.667	>=0.5	Pass
2M	SISO	2402	1	1.272	>=0.5	Pass
		2440	1	1.208	>=0.5	Pass
		2480	1	1.190	>=0.5	Pass

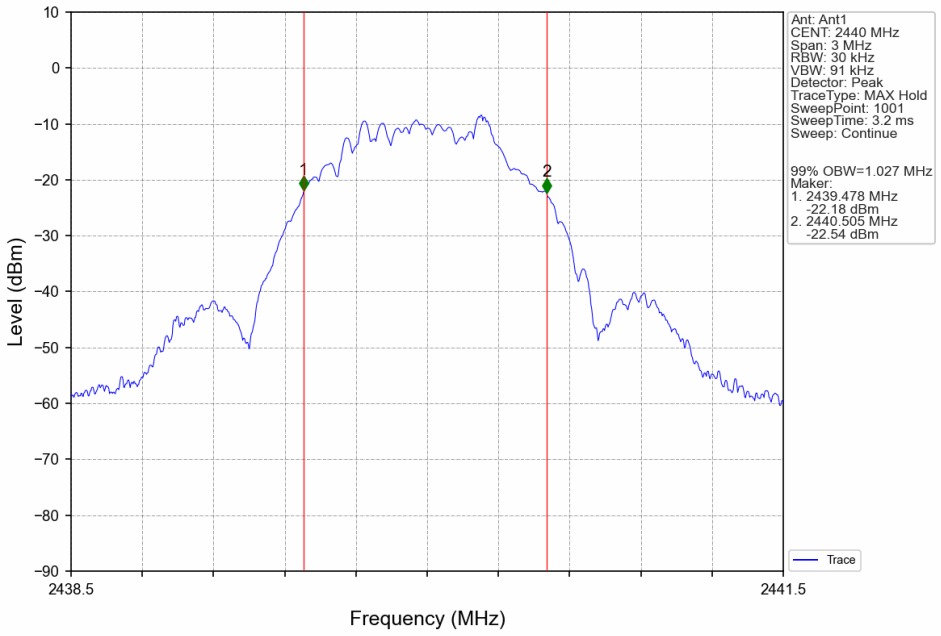
2.2 Test Graph

2.2.1 OBW

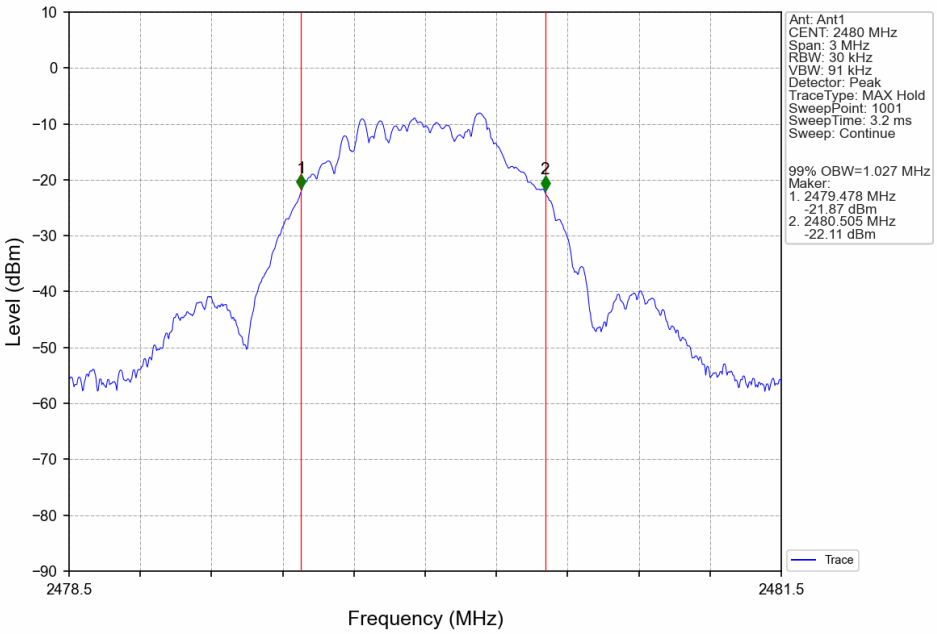
1M_LCH_2402MHz_Ant1_NTNV



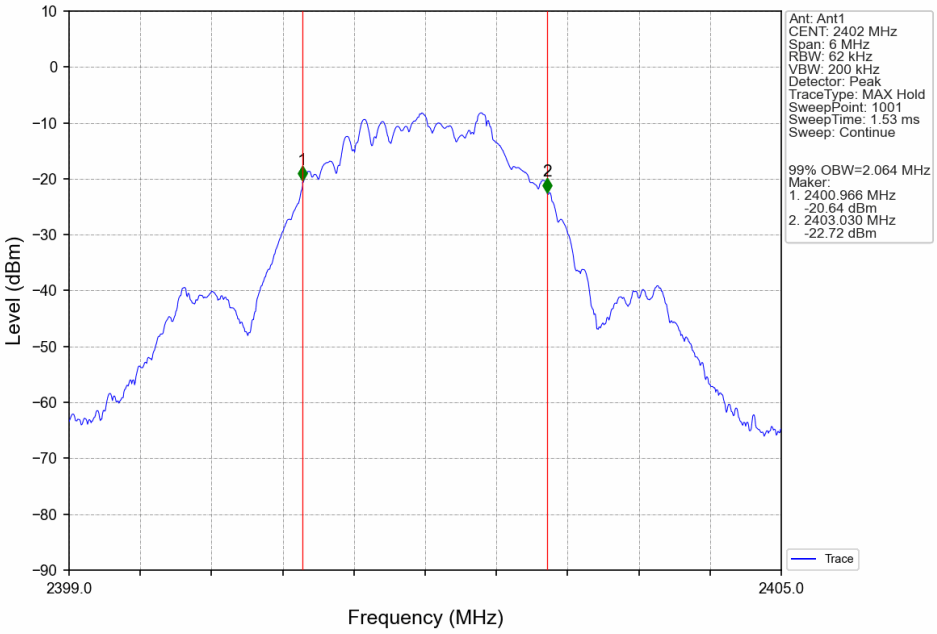
1M_MCH_2440MHz_Ant1_NTNV



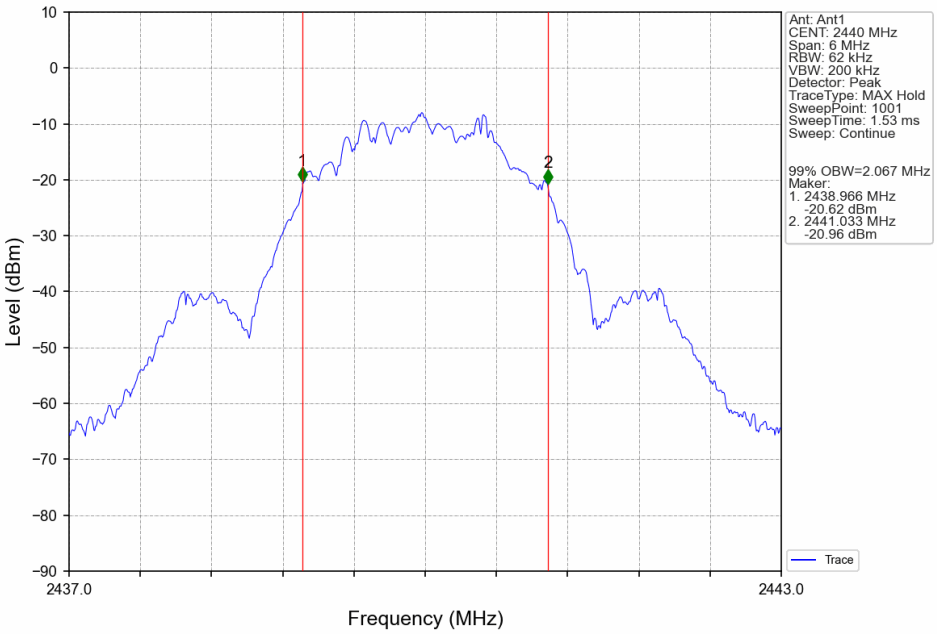
1M_HCH_2480MHz_Ant1_NTNV



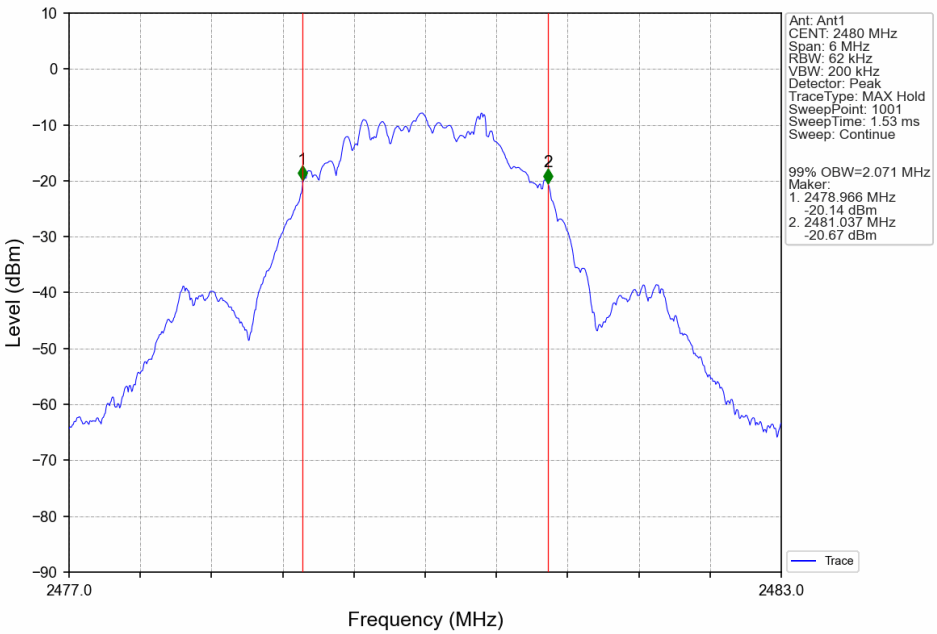
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV

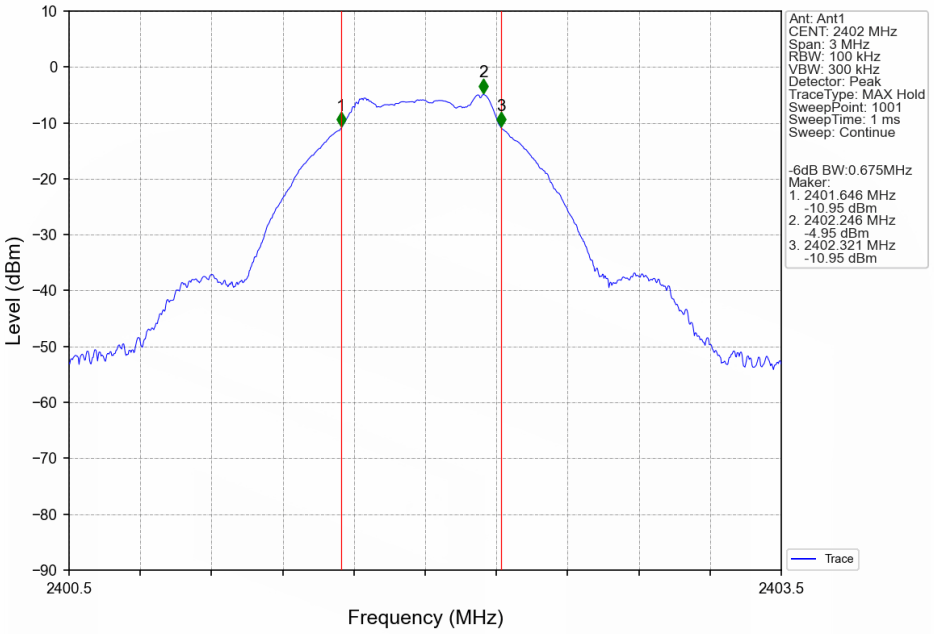


2M_HCH_2480MHz_Ant1_NTNV

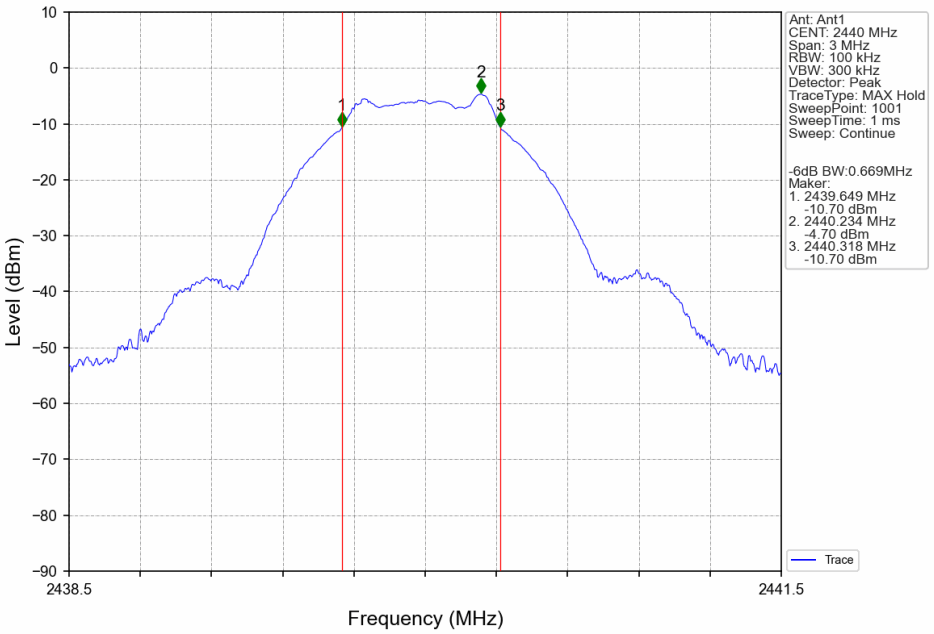


2.2.2 6dB BW

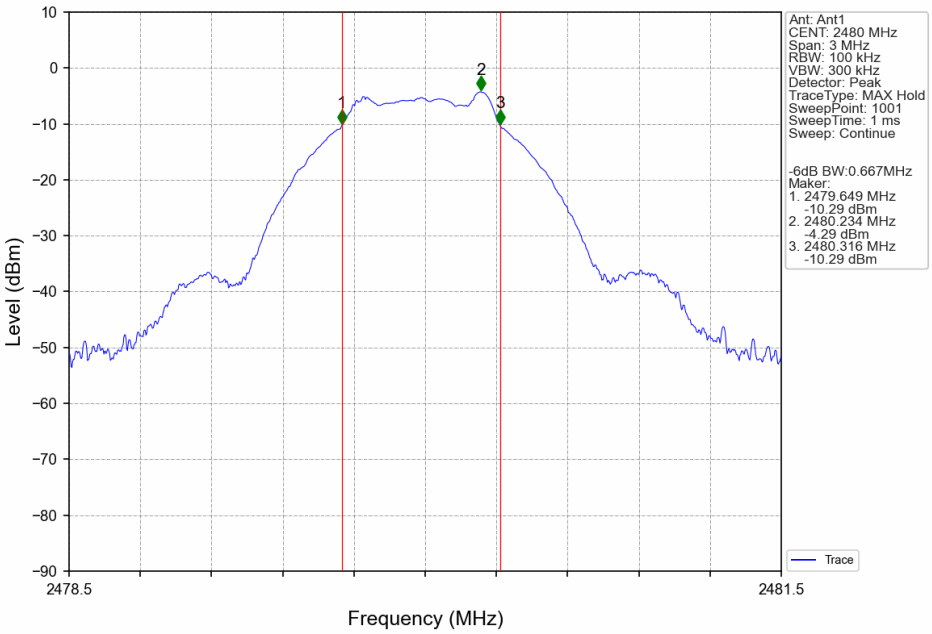
1M_LCH_2402MHz_Ant1_NTNV



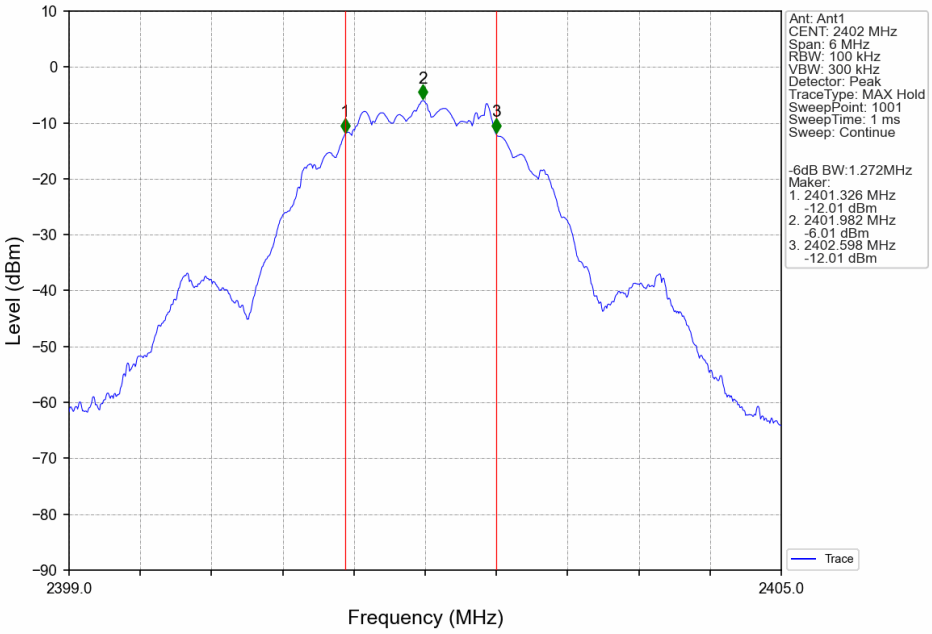
1M_MCH_2440MHz_Ant1_NTNV



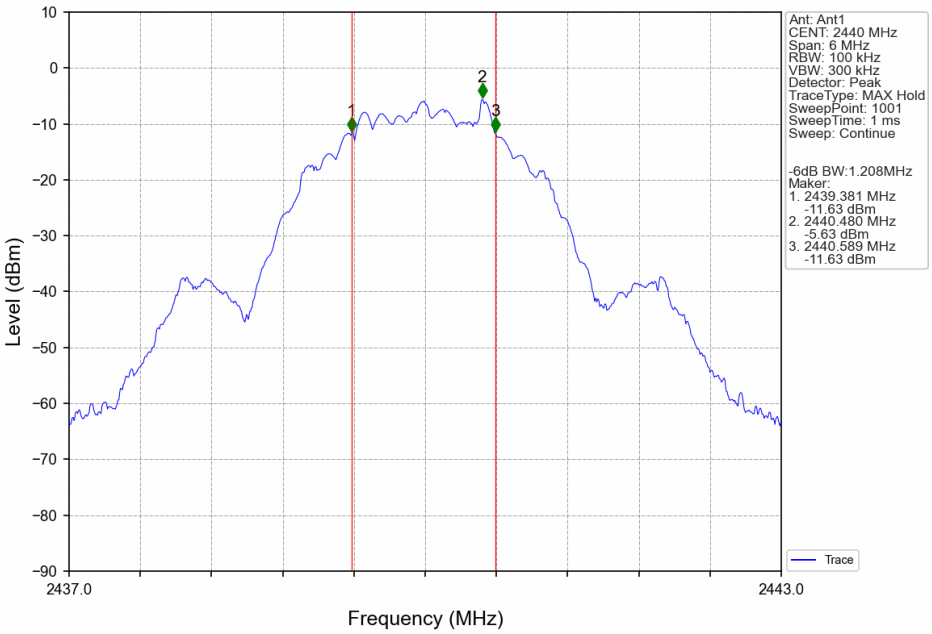
1M_HCH_2480MHz_Ant1_NTNV



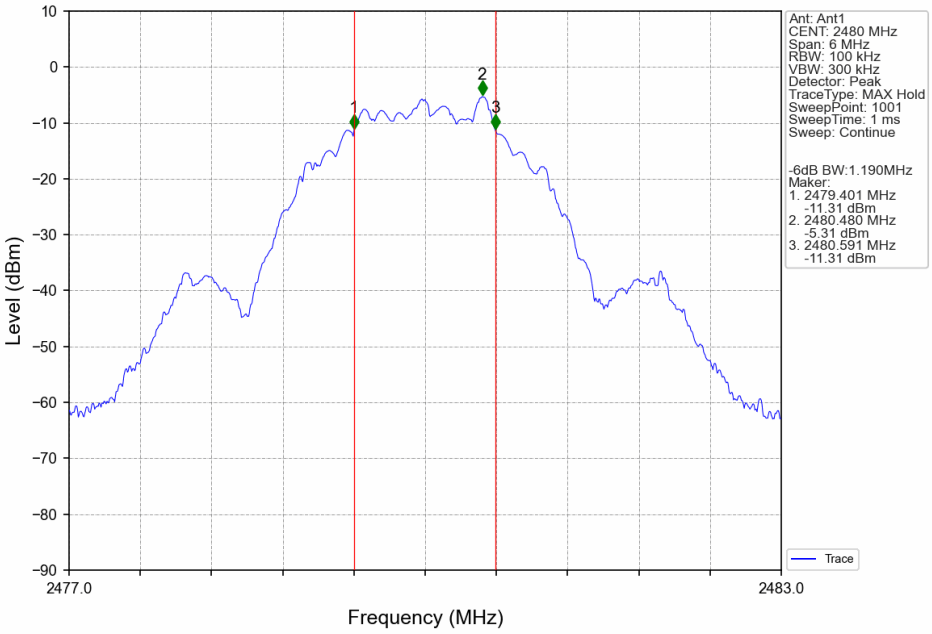
2M_LCH_2402MHz_Ant1_NTNV



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	-4.72	<=30	Pass
		2440	-4.70	<=30	Pass
		2480	-4.30	<=30	Pass
2M	SISO	2402	-4.67	<=30	Pass
		2440	-4.61	<=30	Pass
		2480	-4.29	<=30	Pass

4. Maximum Power Spectral Density

4.1 Test Result

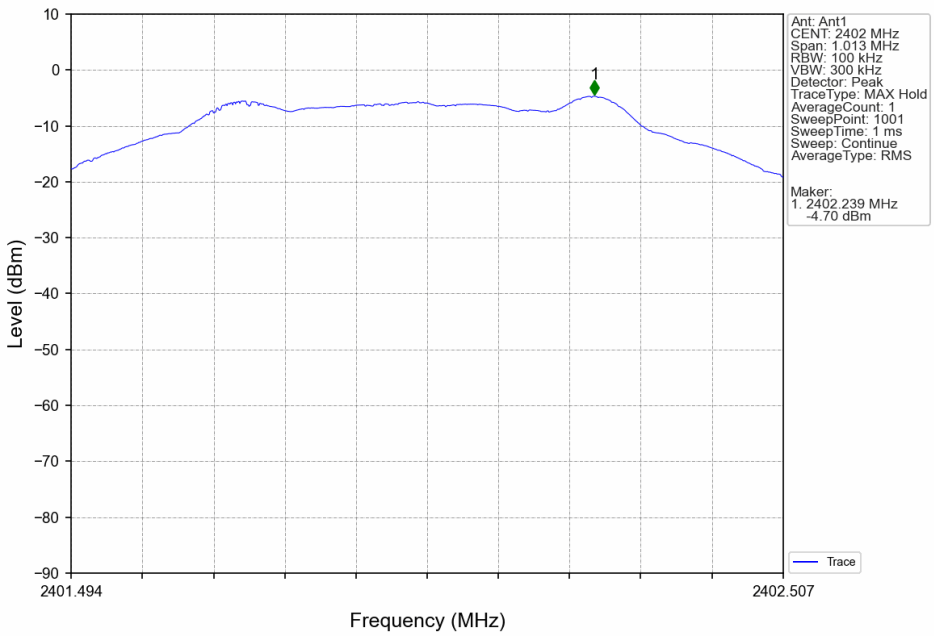
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-4.70	<=8	Pass
		2440	-4.72	<=8	Pass
		2480	-4.27	<=8	Pass
2M	SISO	2402	-5.77	<=8	Pass
		2440	-5.71	<=8	Pass
		2480	-5.40	<=8	Pass

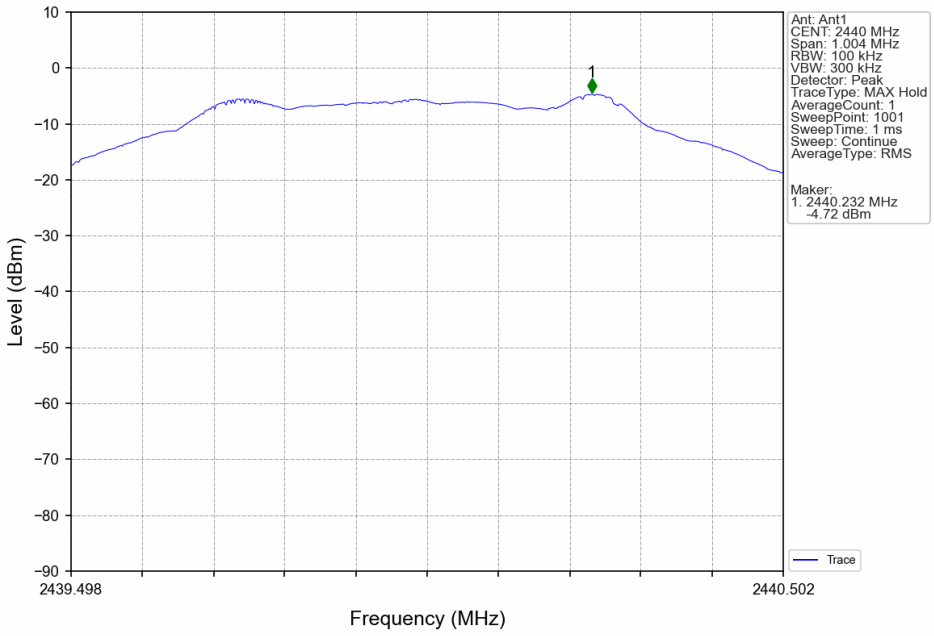
4.2 Test Graph

4.2.1 PSD

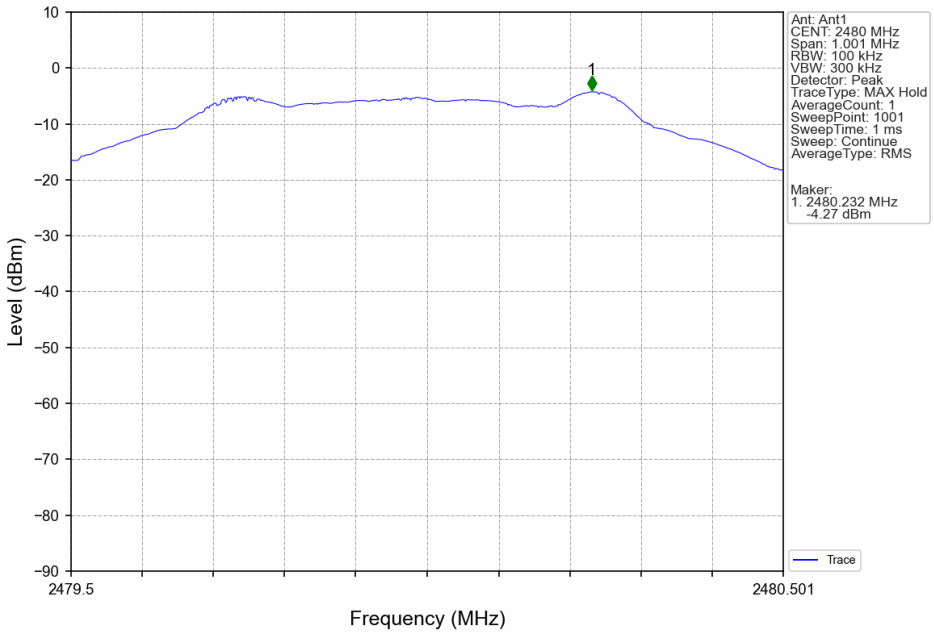
1M_LCH_2402MHz_Ant1_NTNV



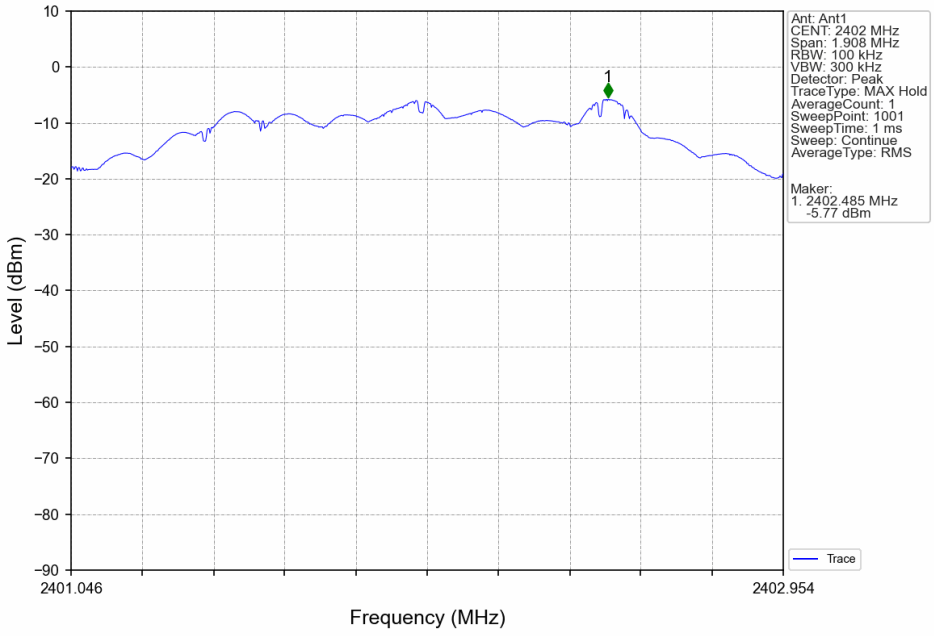
1M_MCH_2440MHz_Ant1_NTNV



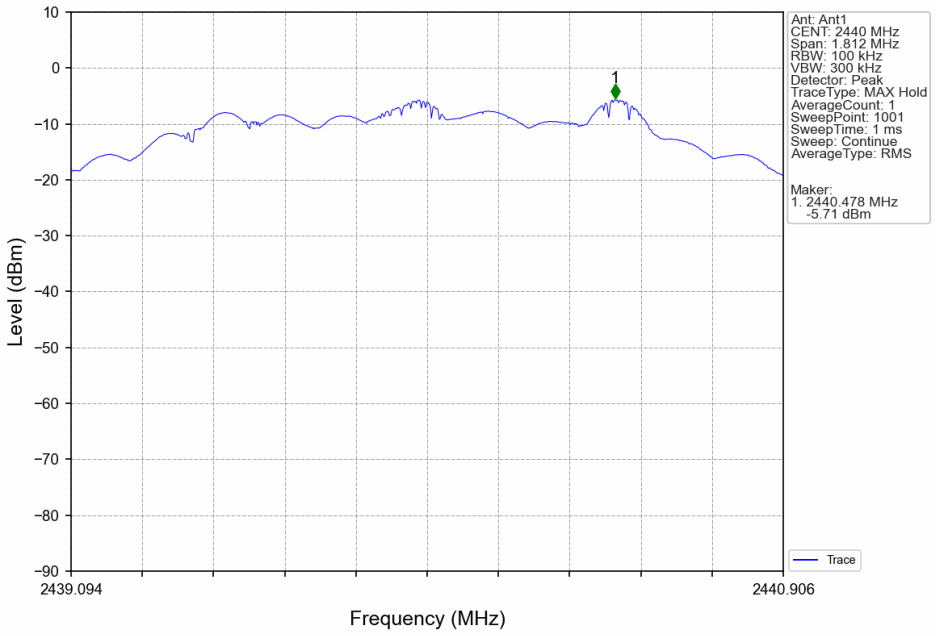
1M_HCH_2480MHz_Ant1_NTNV



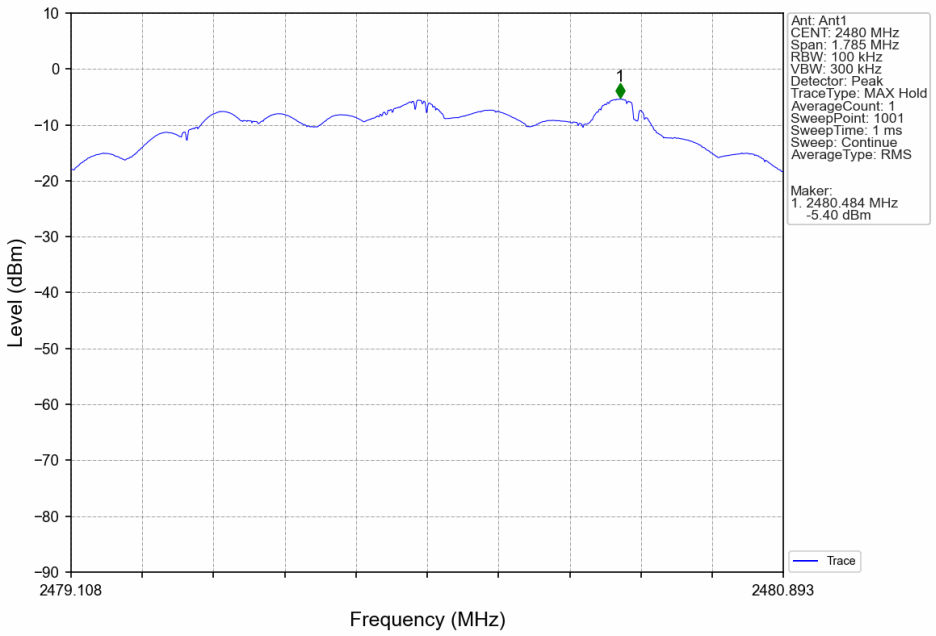
2M_LCH_2402MHz_Ant1_NTNV



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	-4.76
		2440	1	-4.68
		2480	1	-4.28
2M	SISO	2402	1	-5.81
		2440	1	-5.77
		2480	1	-5.39
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

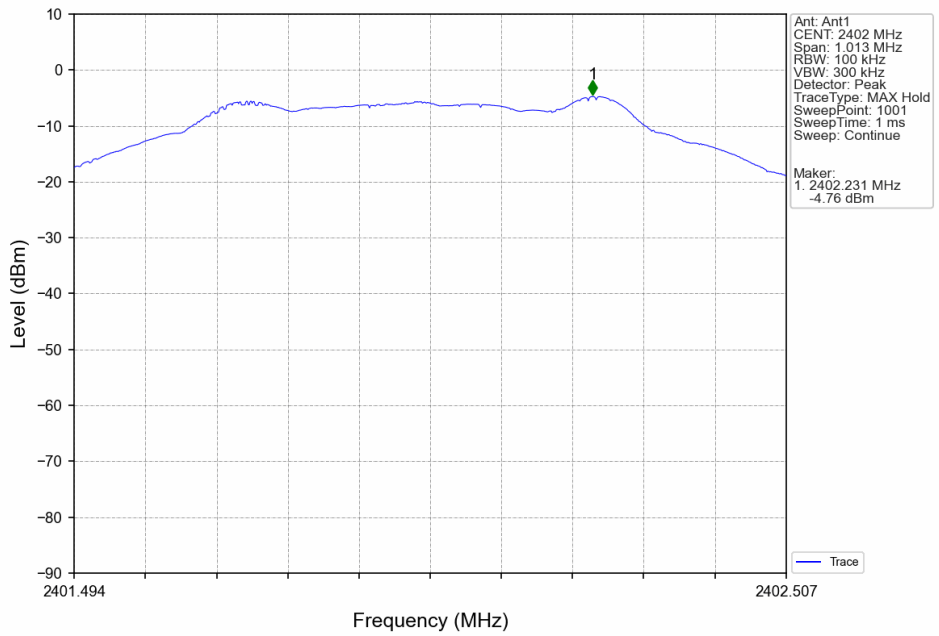
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-4.28	-24.28	Pass
		2440	1	-4.28	-24.28	Pass
		2480	1	-4.28	-24.28	Pass
2M	SISO	2402	1	-5.39	-25.39	Pass
		2440	1	-5.39	-25.39	Pass
		2480	1	-5.39	-25.39	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

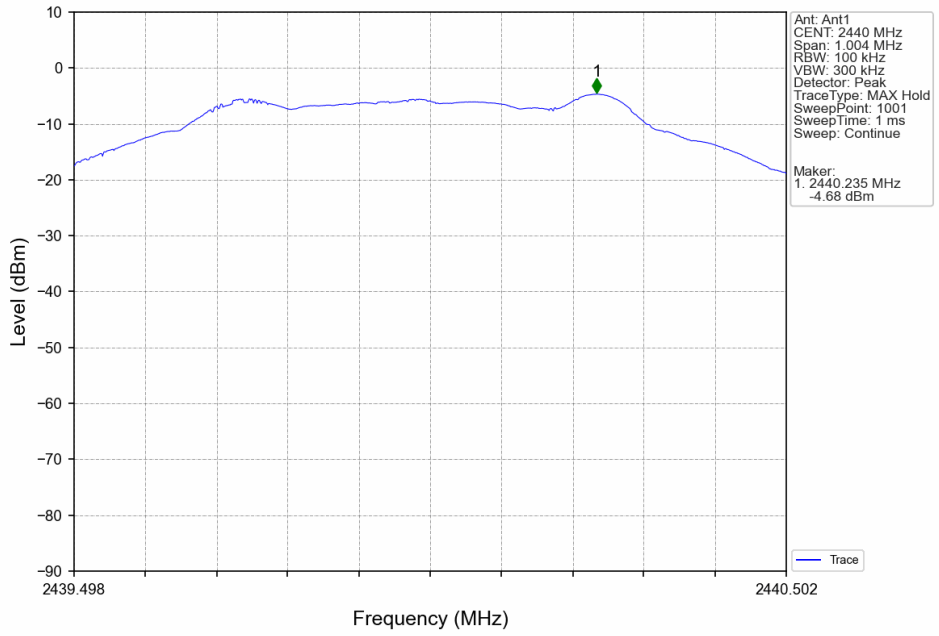
5.2 Test Graph

5.2.1 Ref

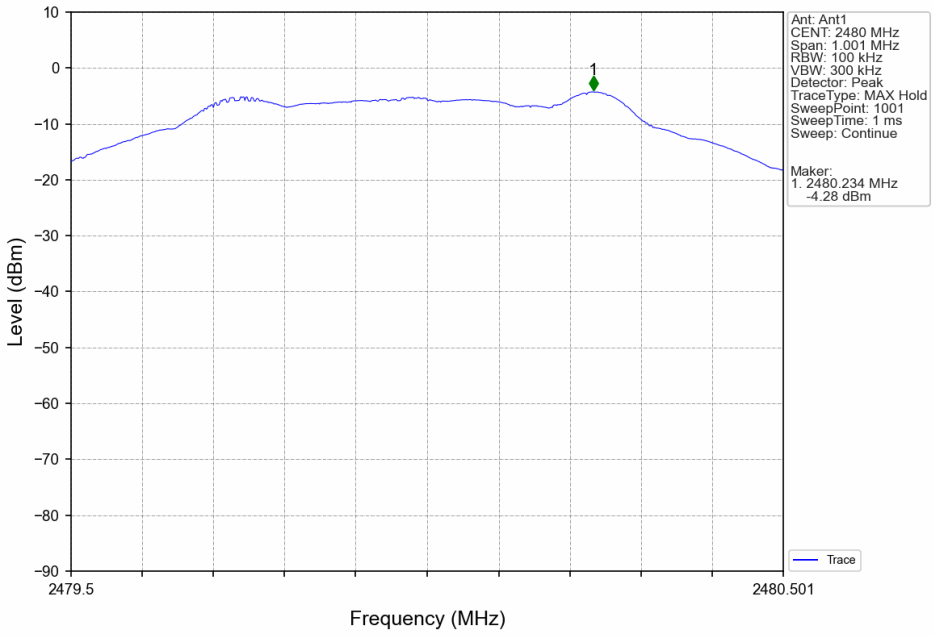
1M_LCH_2402MHz_Ant1_NTNV



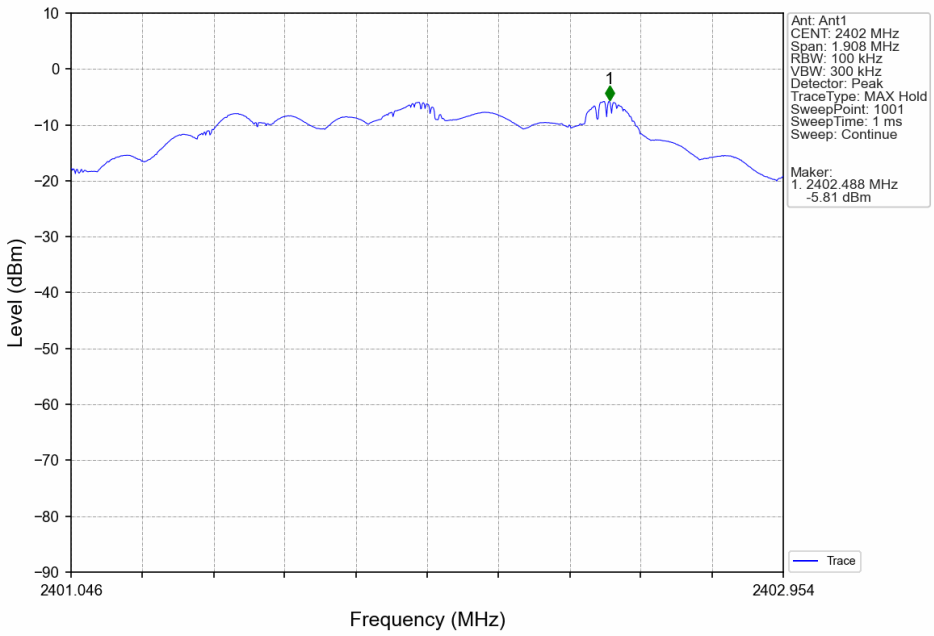
1M_MCH_2440MHz_Ant1_NTNV



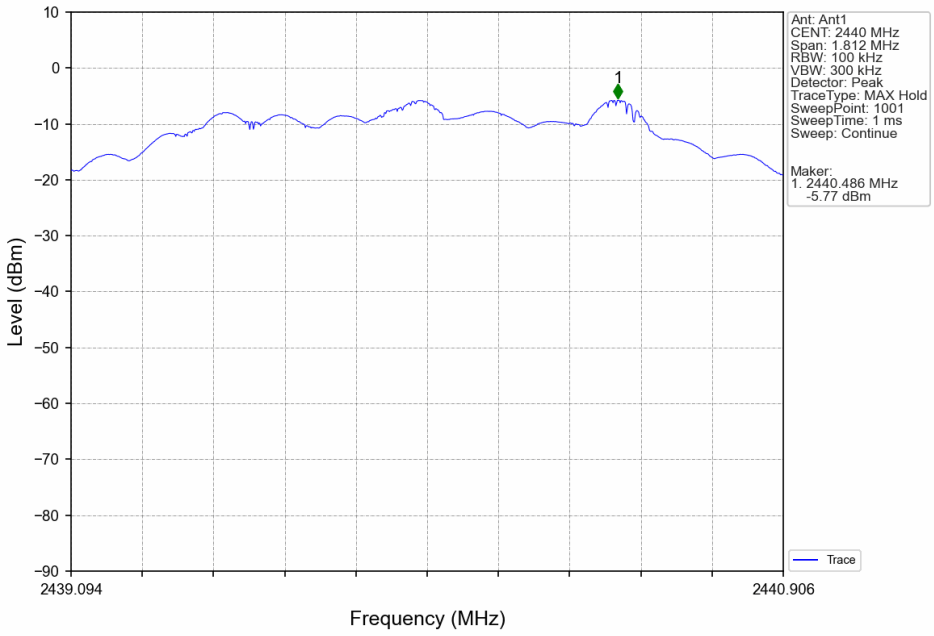
1M_HCH_2480MHz_Ant1_NTNV



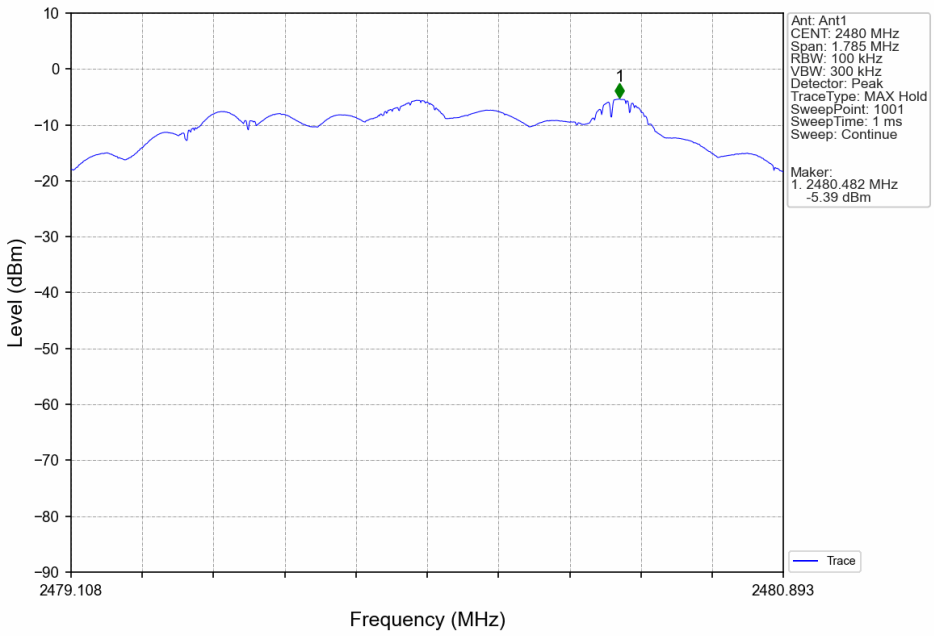
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV

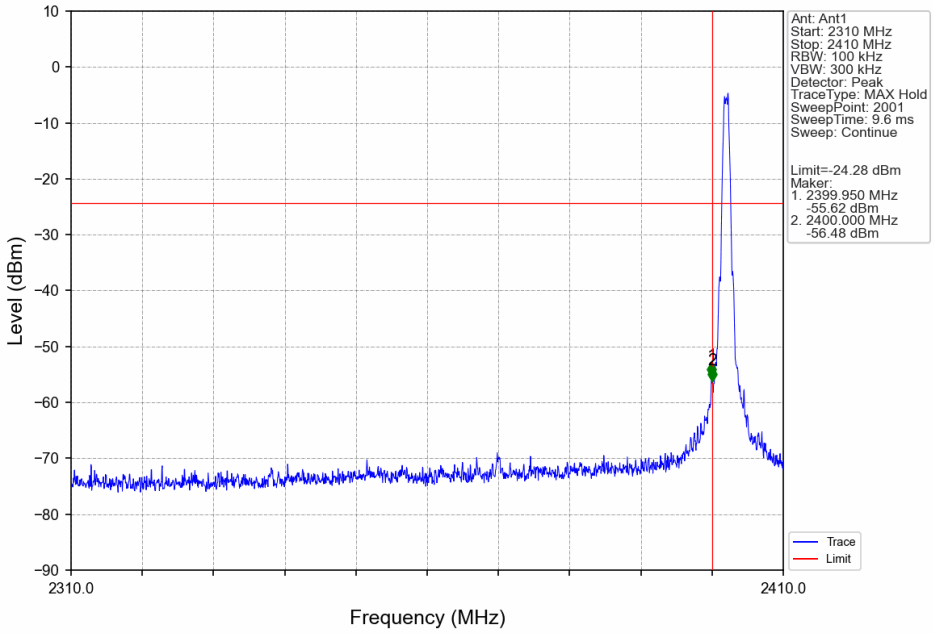


2M_HCH_2480MHz_Ant1_NTNV

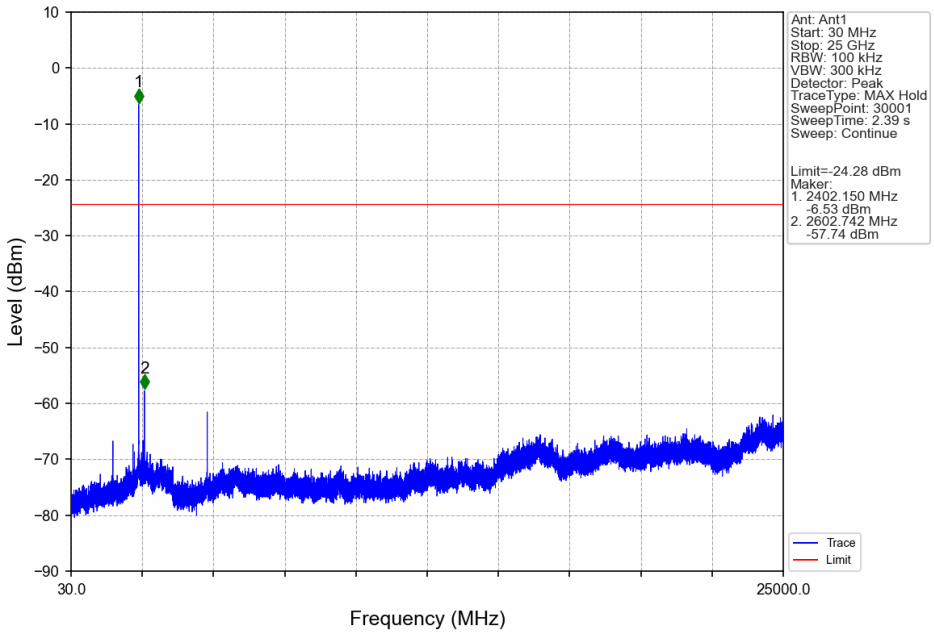


5.2.2 CSE

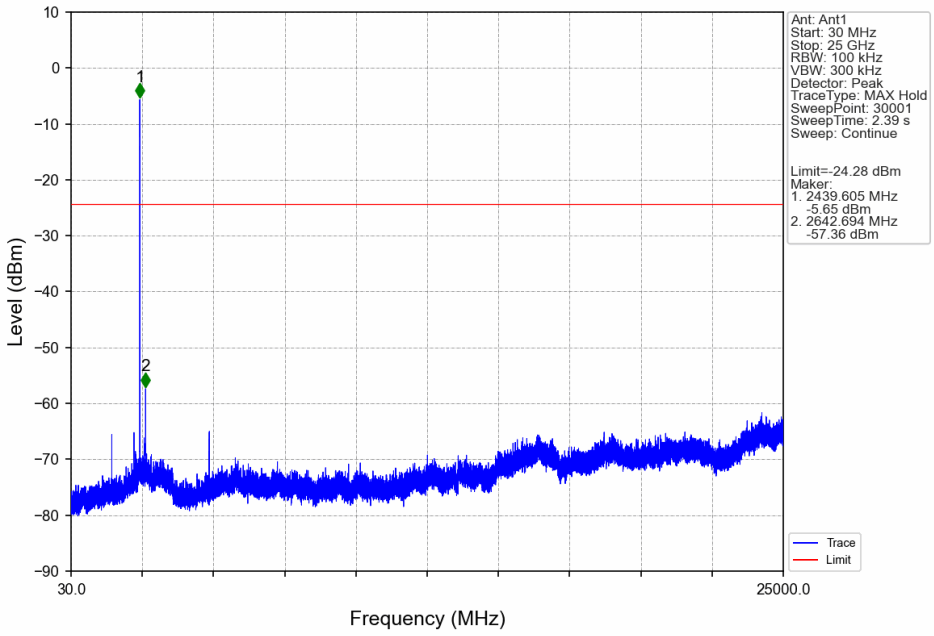
1M_LCH_2402MHz_Ant1_NTNV



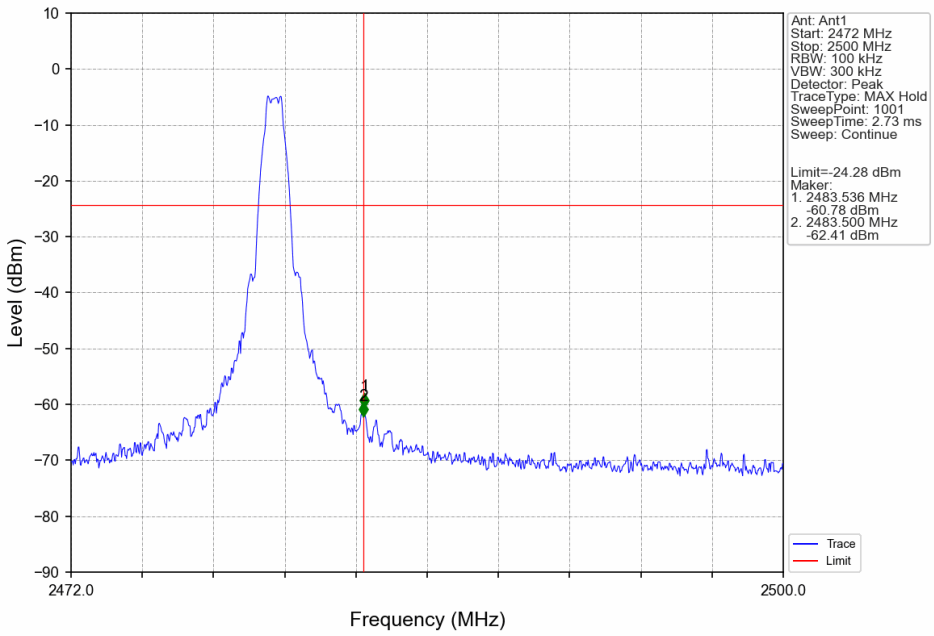
1M_LCH_2402MHz_Ant1_NTNV



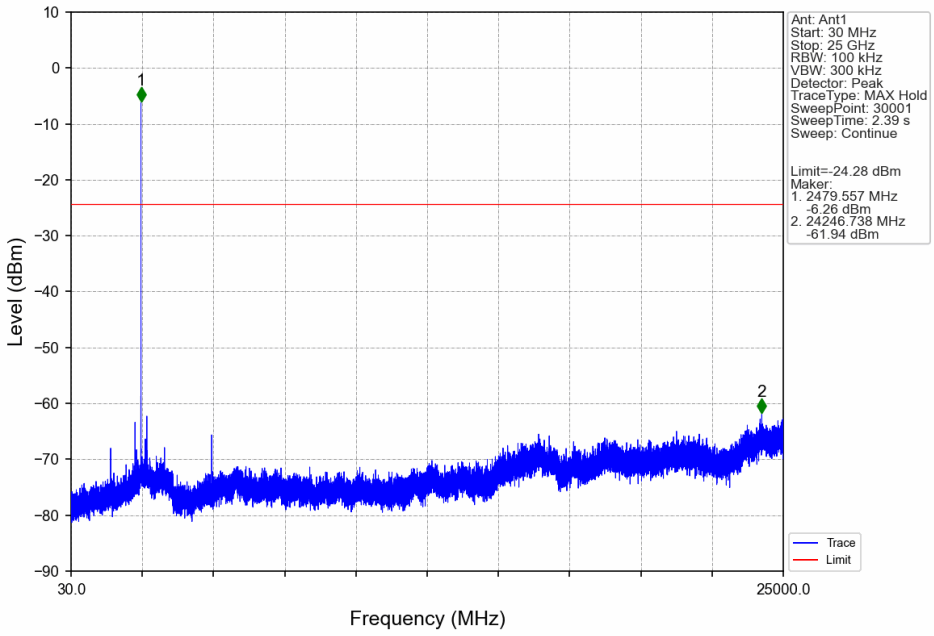
1M_MCH_2440MHz_Ant1_NTNV



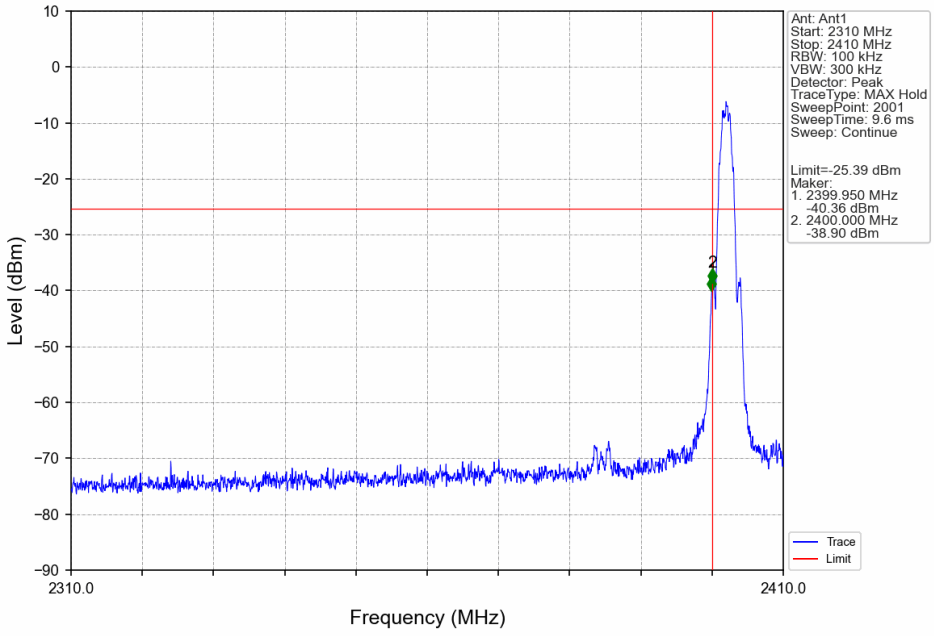
1M_HCH_2480MHz_Ant1_NTNV



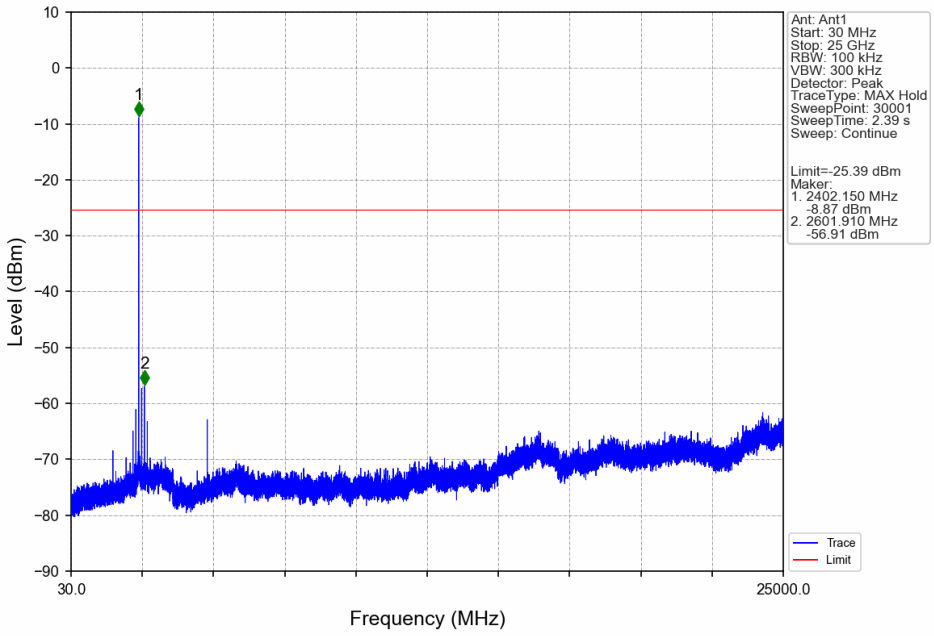
1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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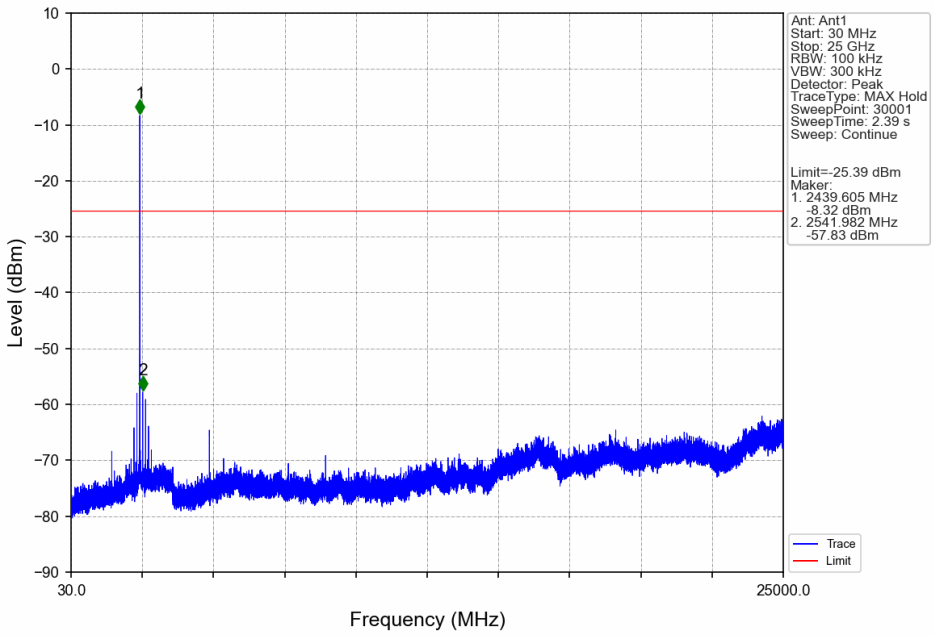
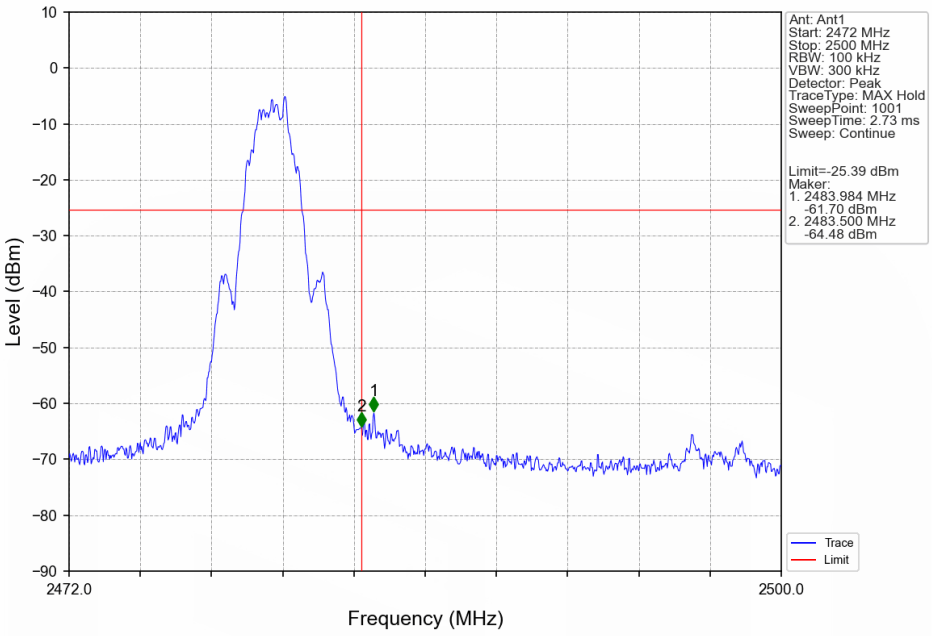
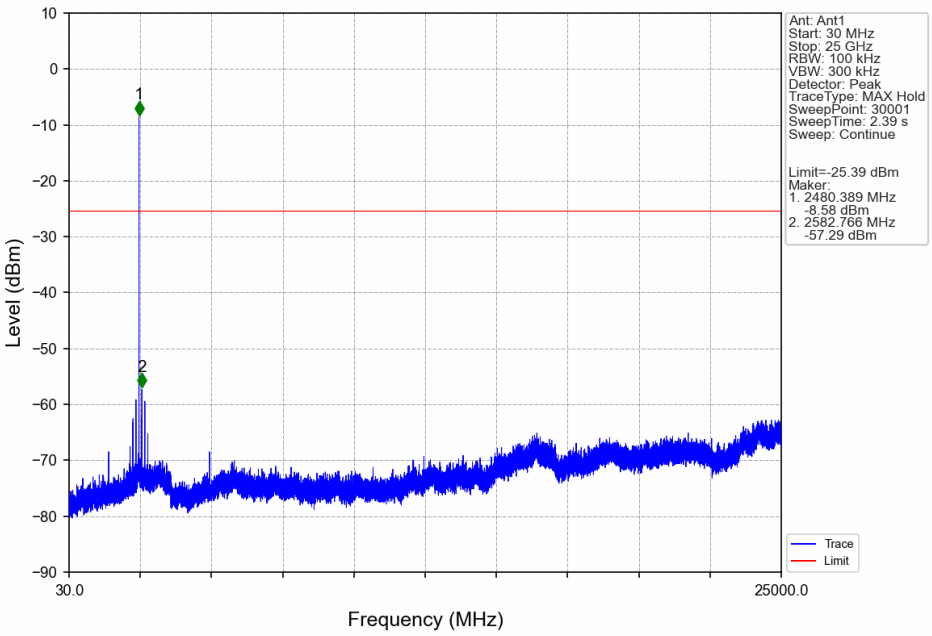


2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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