



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK260330017A01E0101

RF Test Report

For BTEK260330017A01E01

Project No.:	BTEK260330017A01E0101
Product Description:	21.2°C, 61%, 101.5kPa
Test Engineer:	Zora
Test Date:	2026-05-27



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK260330017A01E0101

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
Unwanted Emissions In Restricted Frequency Bands	Pass



1. Duty Cycle

1.1 Test Result

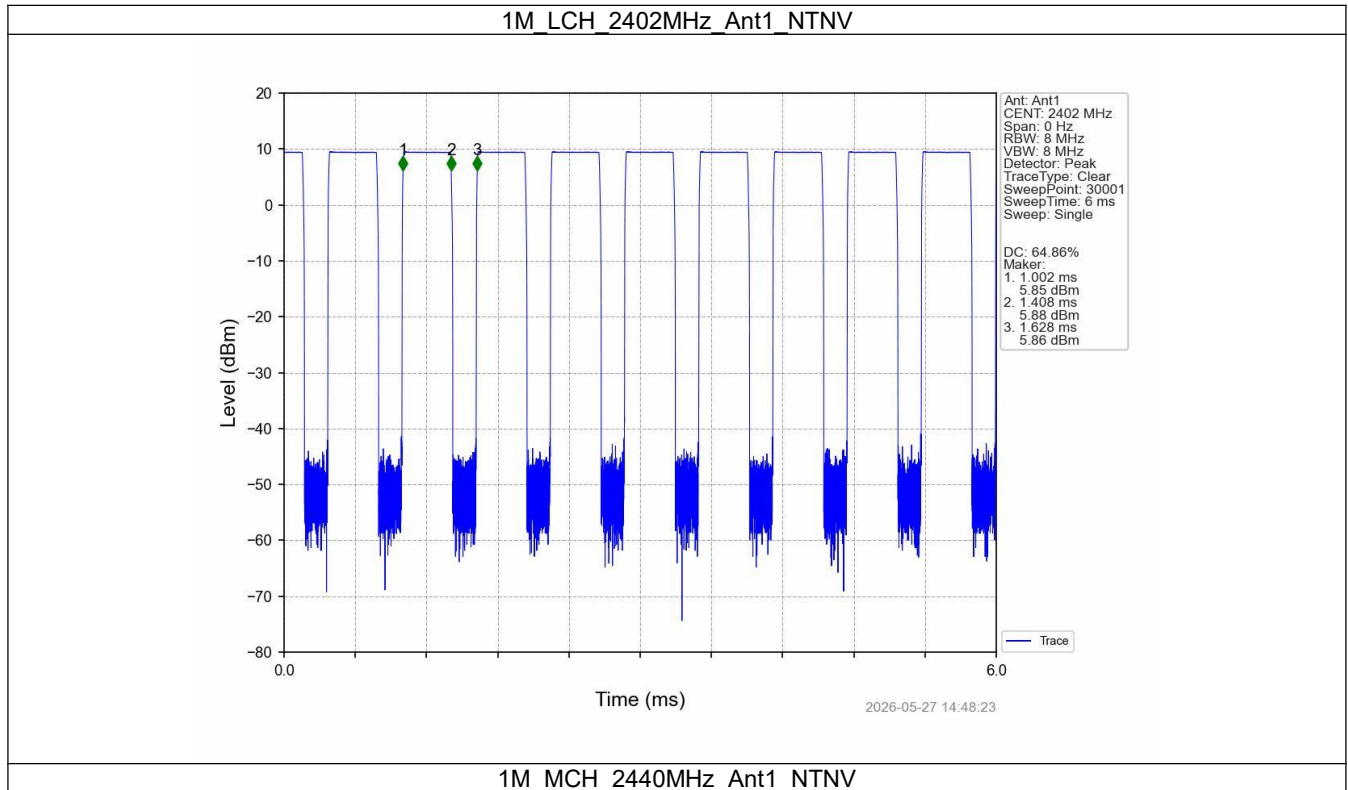
1.1.1 Ant1

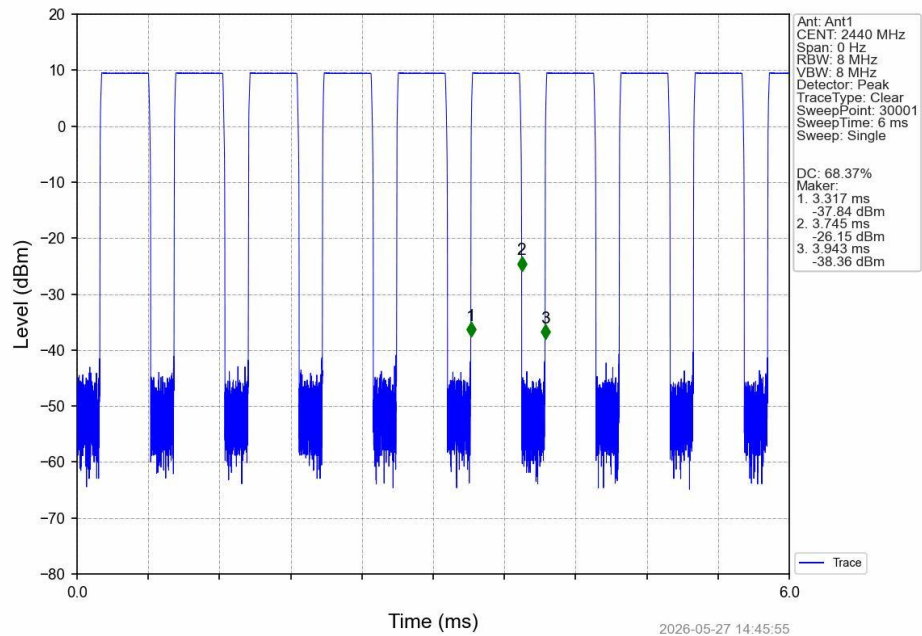
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.406	0.626	64.86	1.88	0.05
		2440	0.428	0.626	68.37	1.65	0.13
		2480	0.428	0.626	68.37	1.65	0.07
2M	SISO	2402	0.243	0.626	38.82	4.11	0.08
		2440	0.244	0.626	38.98	4.09	0.06
		2480	0.243	0.625	38.88	4.10	0.04



1.2 Test Graph

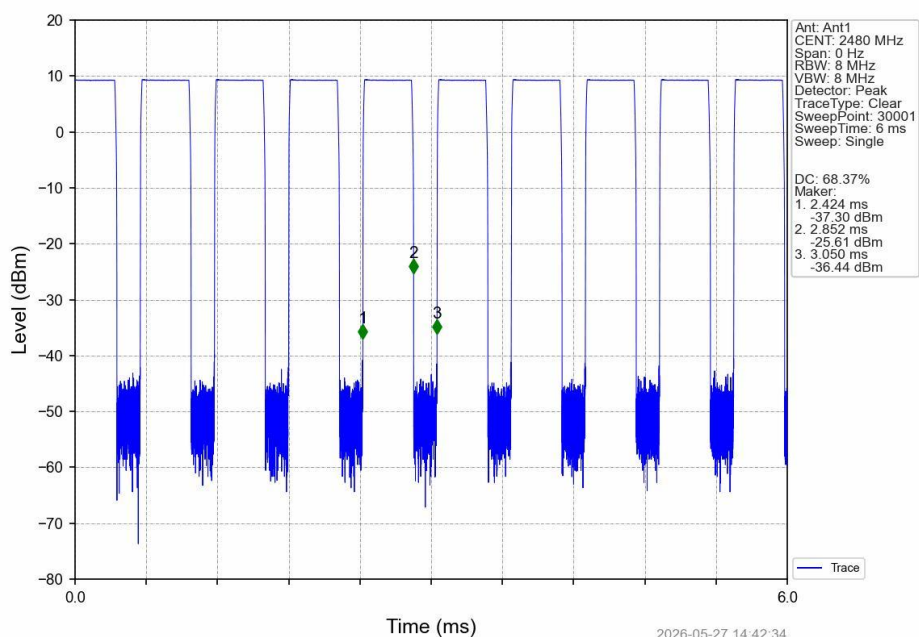
1.2.1 Ant1



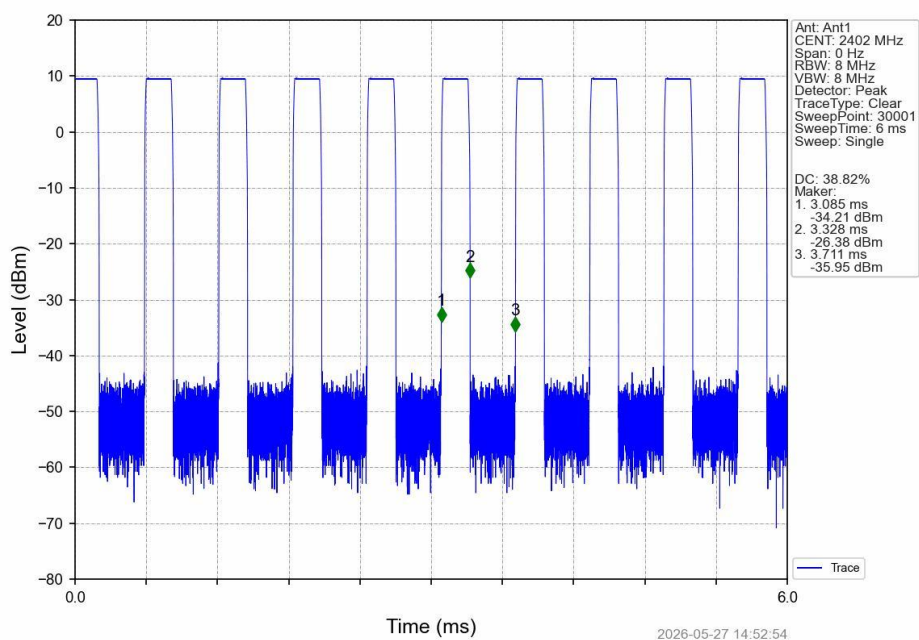




1M_HCH_2480MHz_Ant1_NTNV

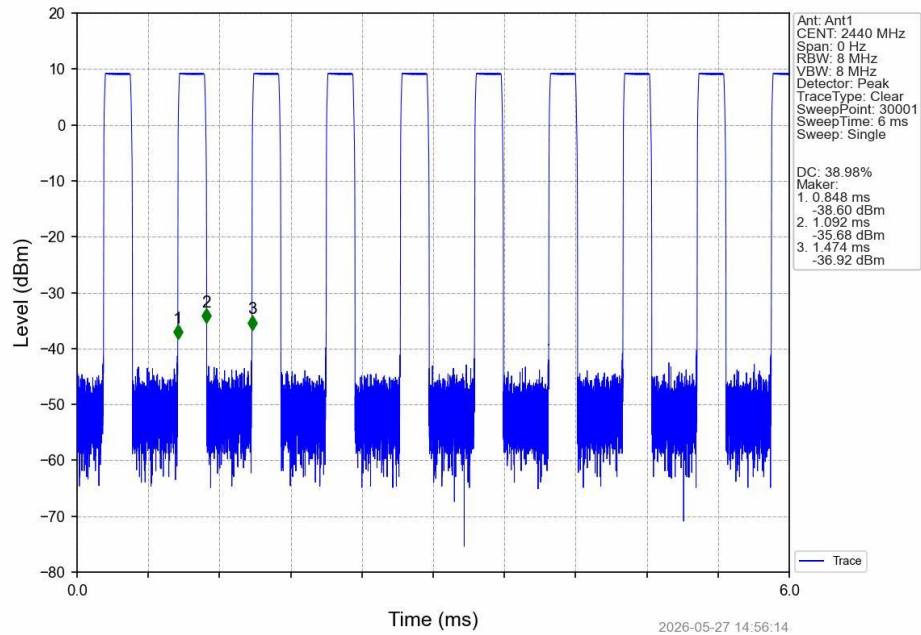


2M_LCH_2402MHz_Ant1_NTNV

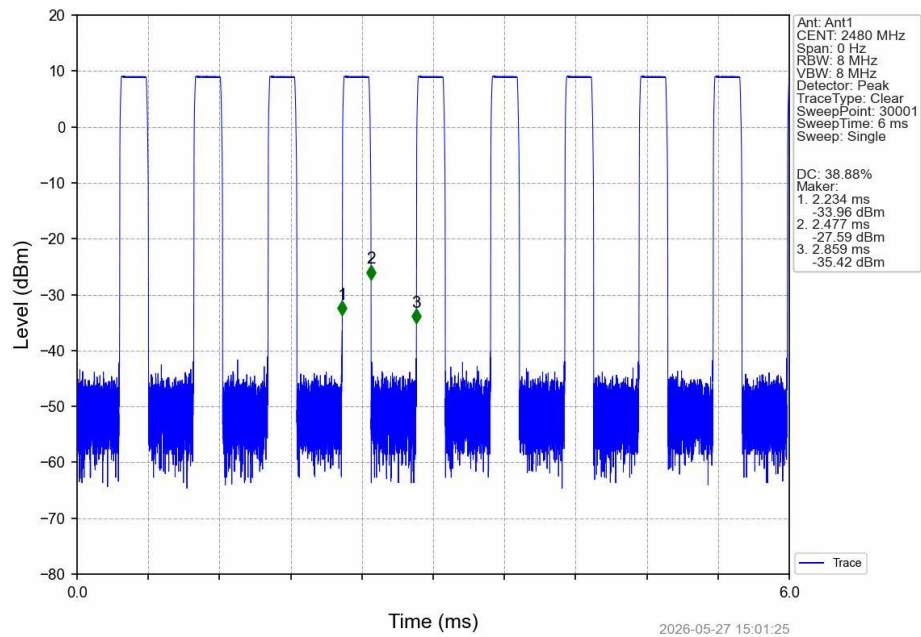




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





2. Bandwidth

2.1 Test Result

2.1.1 OBW

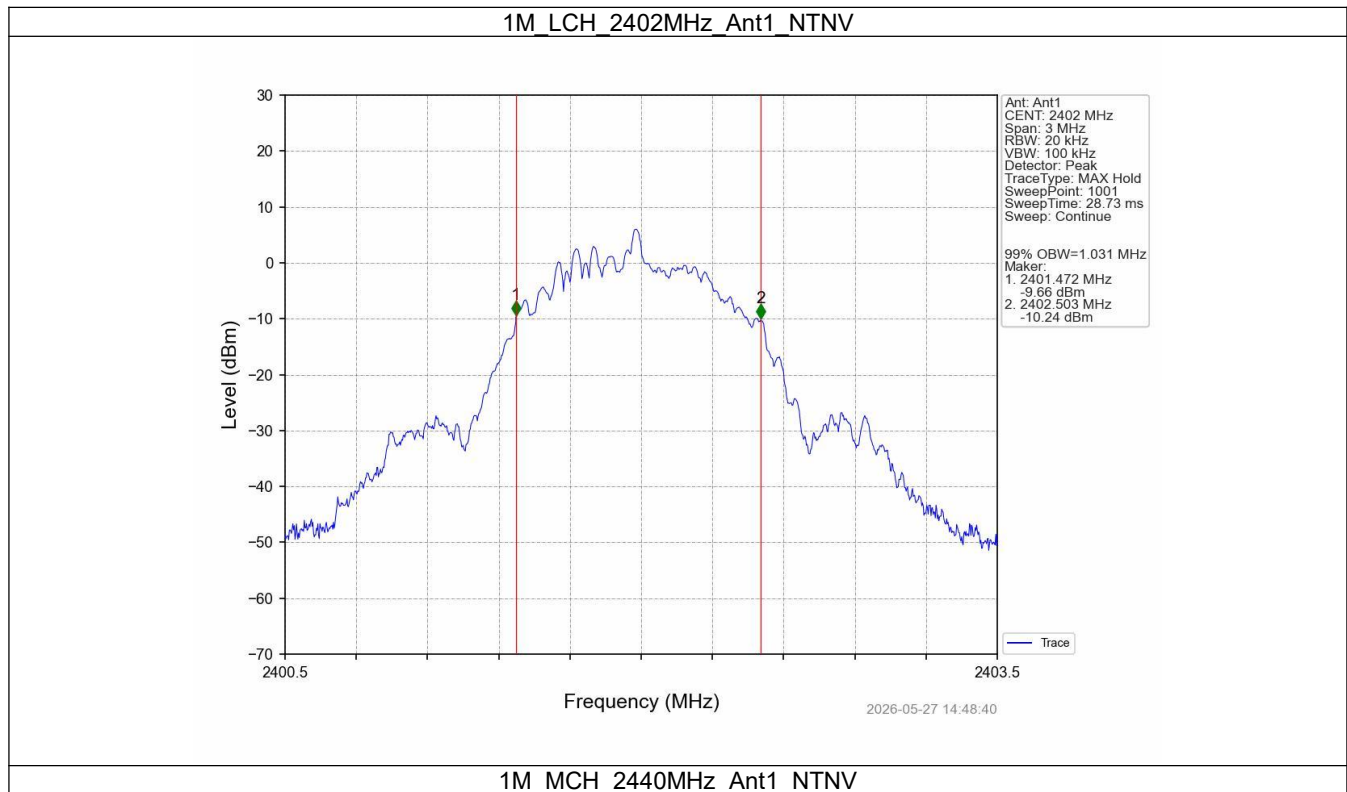
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.031	/	Pass
		2440	1	1.031	/	Pass
		2480	1	1.031	/	Pass
2M	SISO	2402	1	2.047	/	Pass
		2440	1	2.053	/	Pass
		2480	1	2.056	/	Pass

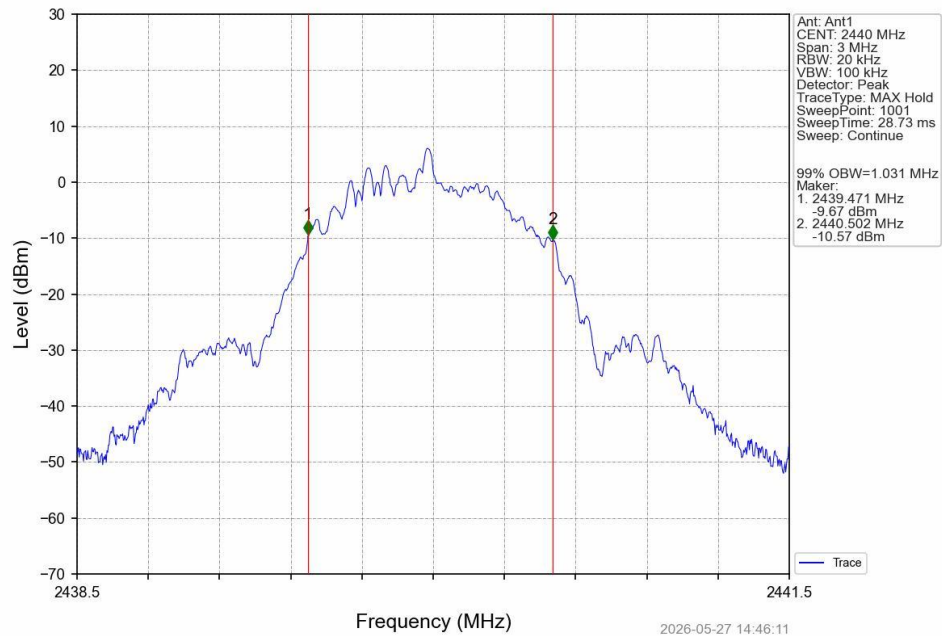
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.675	≥ 0.5	Pass
		2440	1	0.666	≥ 0.5	Pass
		2480	1	0.663	≥ 0.5	Pass
2M	SISO	2402	1	1.100	≥ 0.5	Pass
		2440	1	1.104	≥ 0.5	Pass
		2480	1	1.091	≥ 0.5	Pass

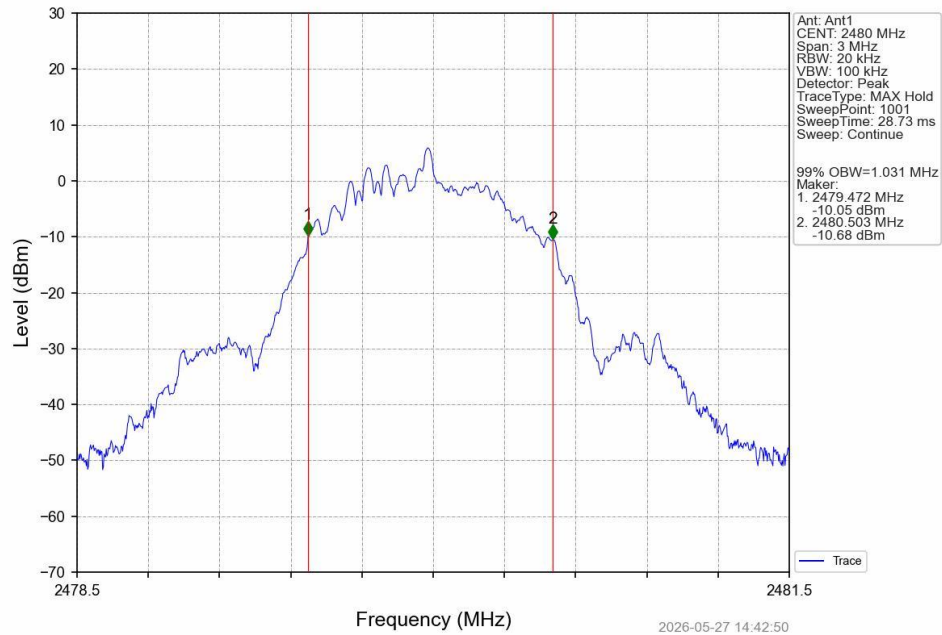
2.2 Test Graph

2.2.1 OBW

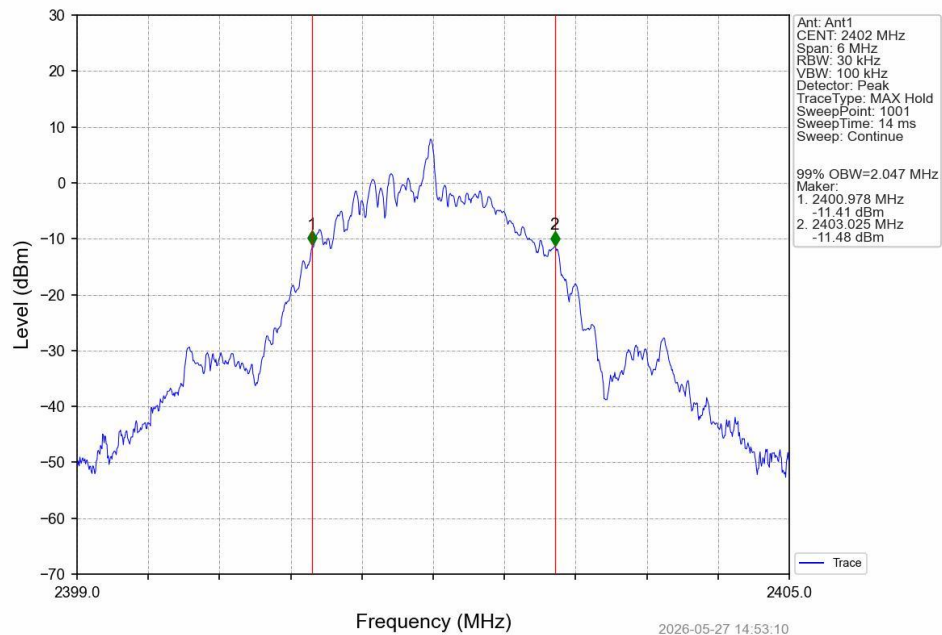




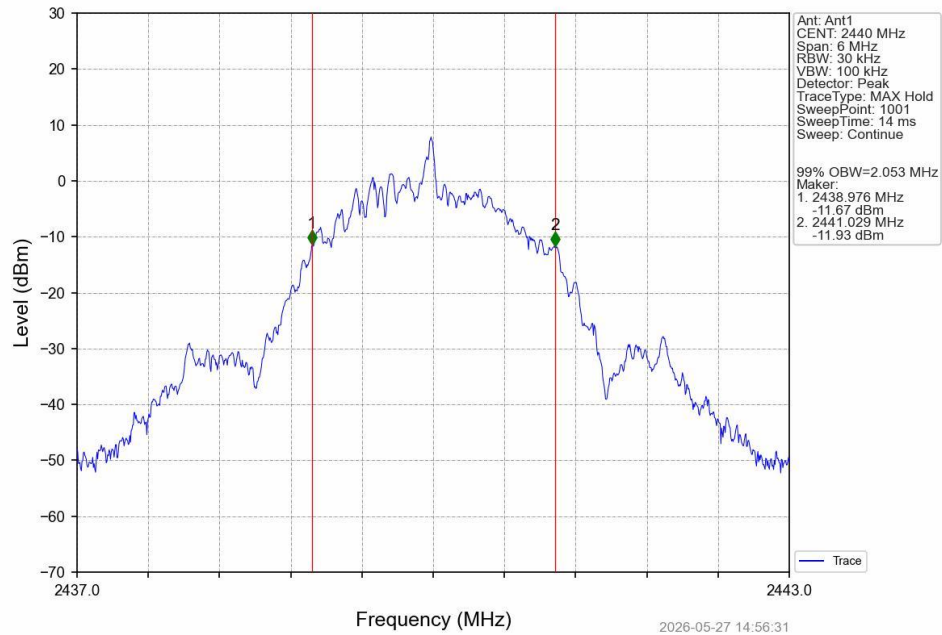
1M_HCH_2480MHz_Ant1_NTNV



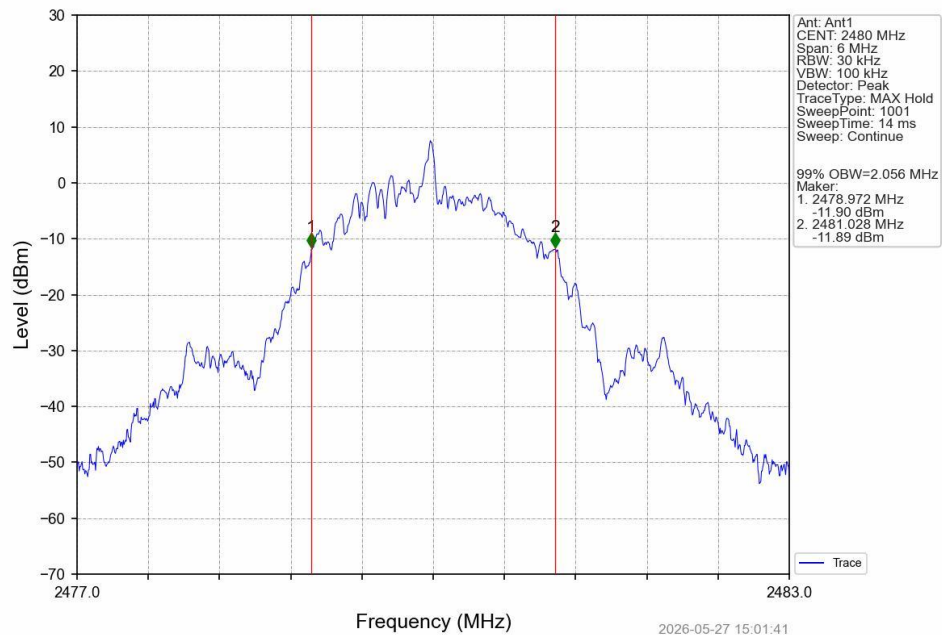
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV

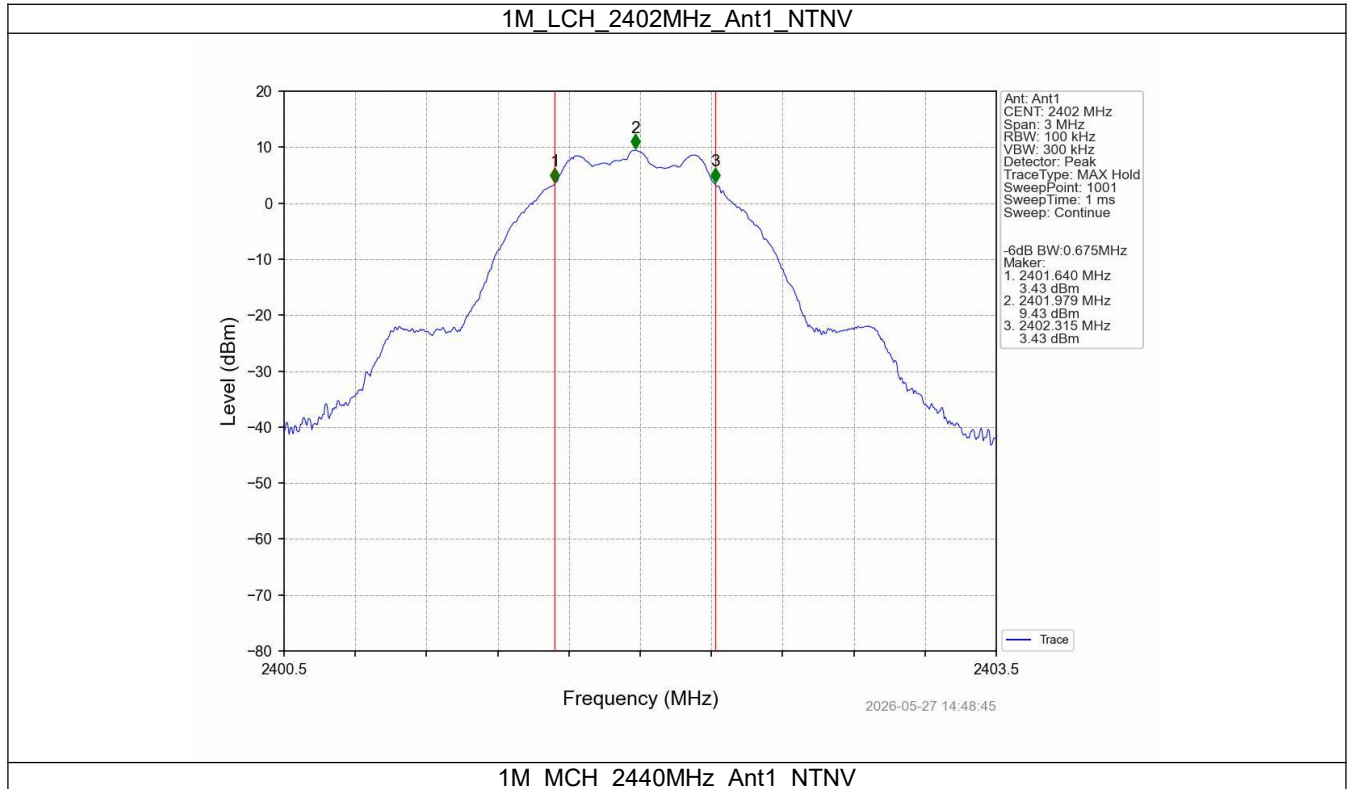


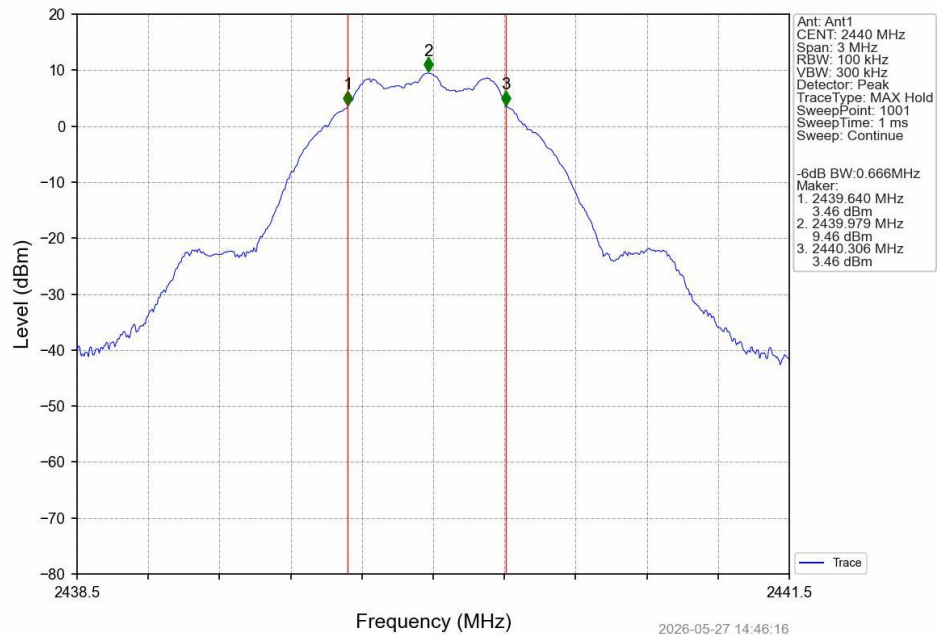
2M_HCH_2480MHz_Ant1_NTNV



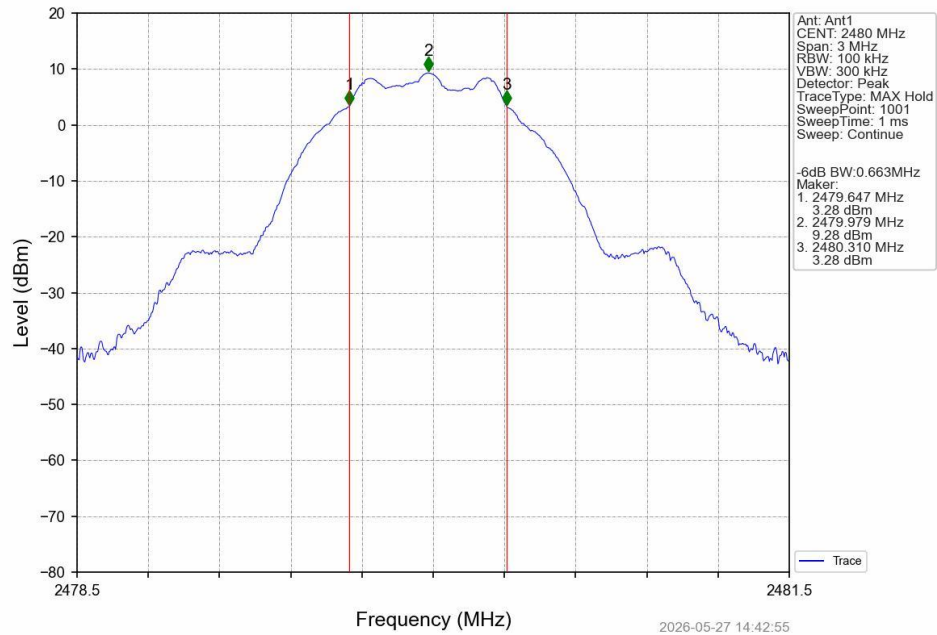


2.2.2 6dB BW

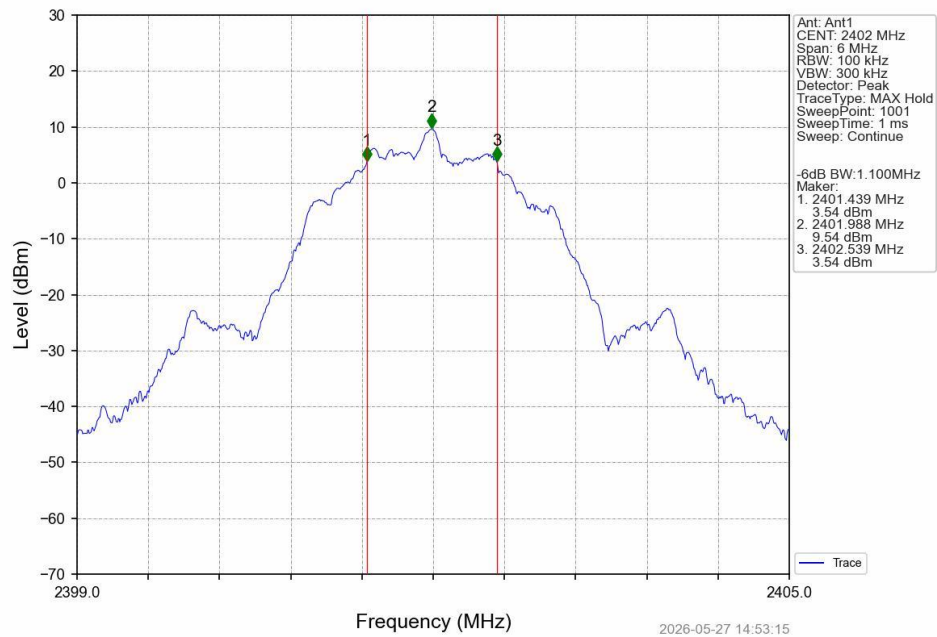




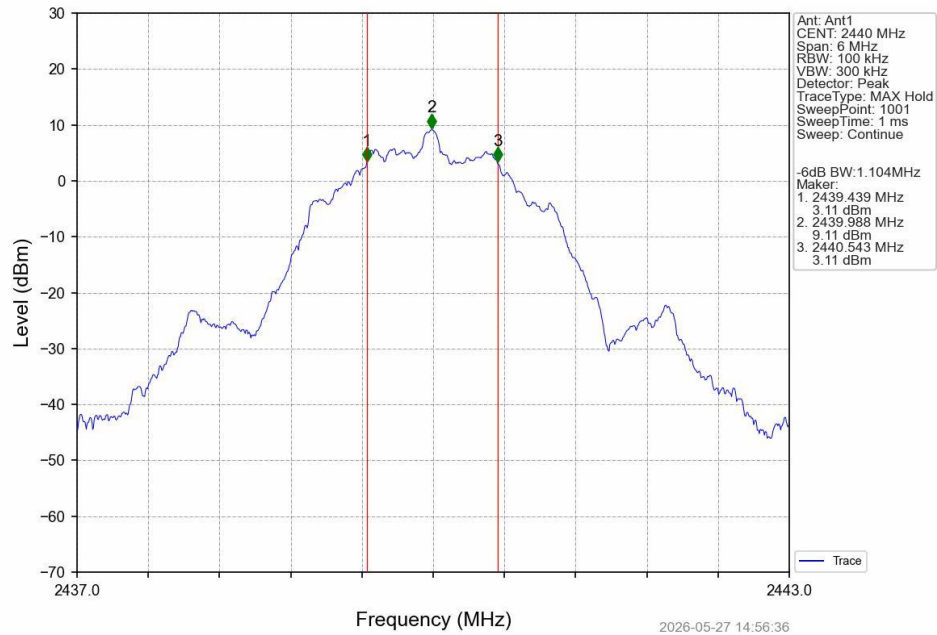
1M_HCH_2480MHz_Ant1_NTNV



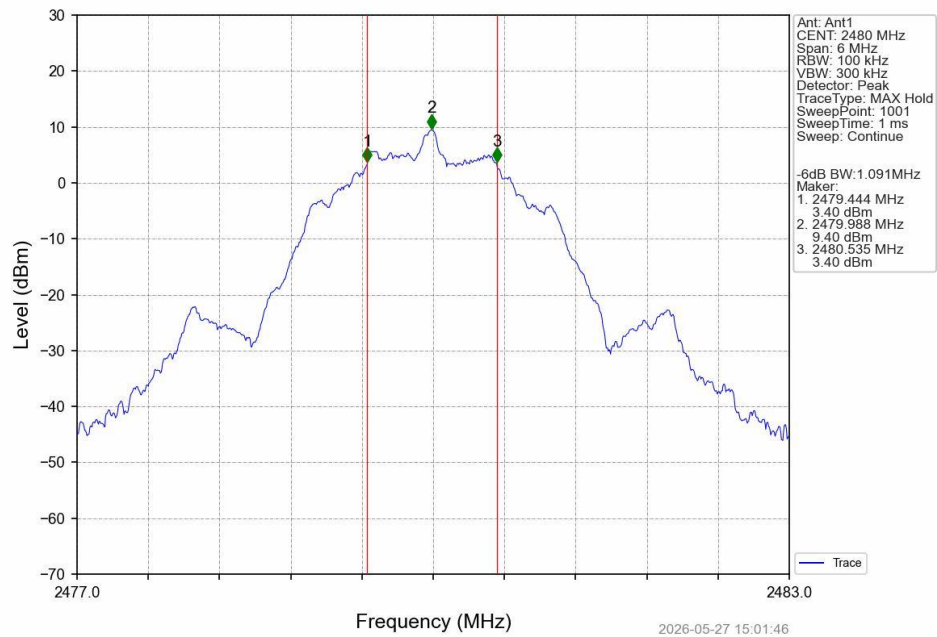
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





3. Maximum Conducted Output Power

3.1 Test Result

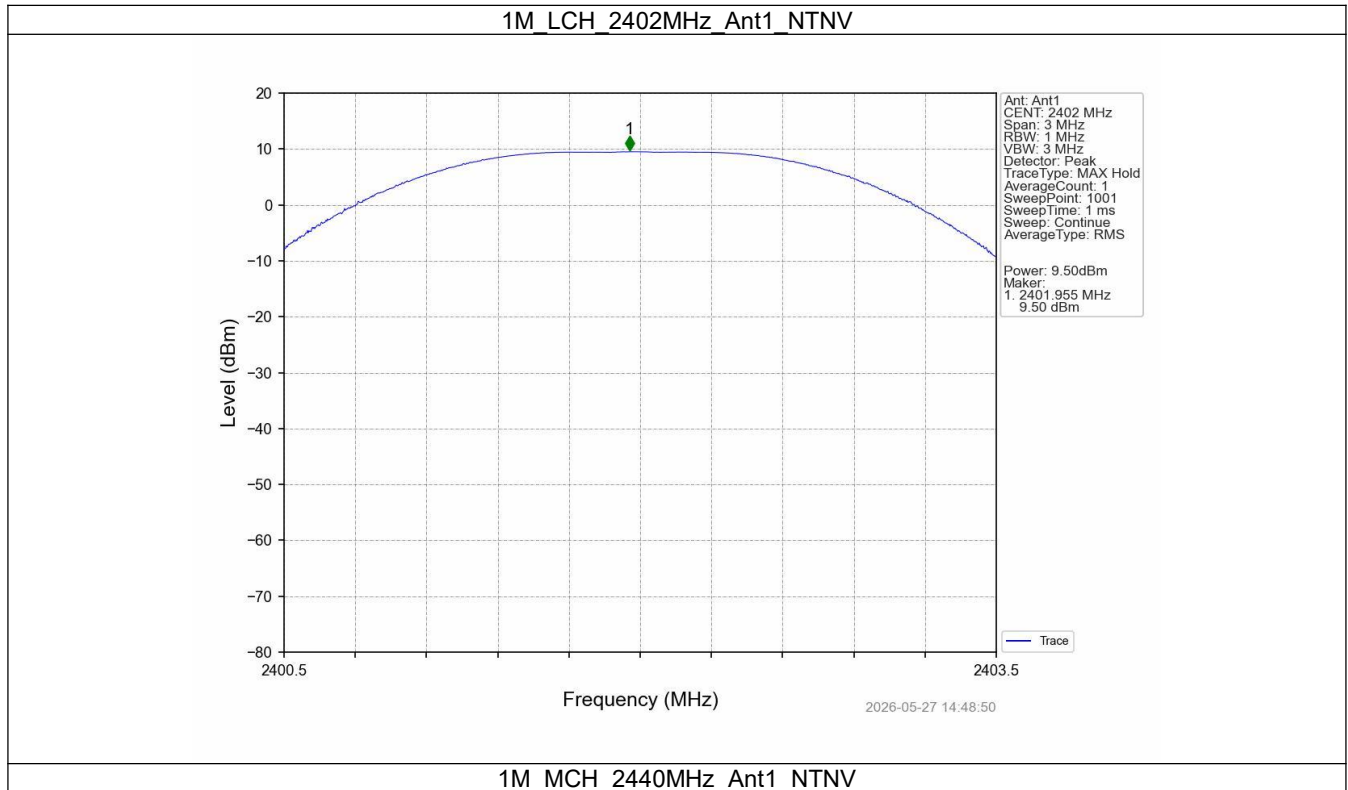
3.1.1 Power

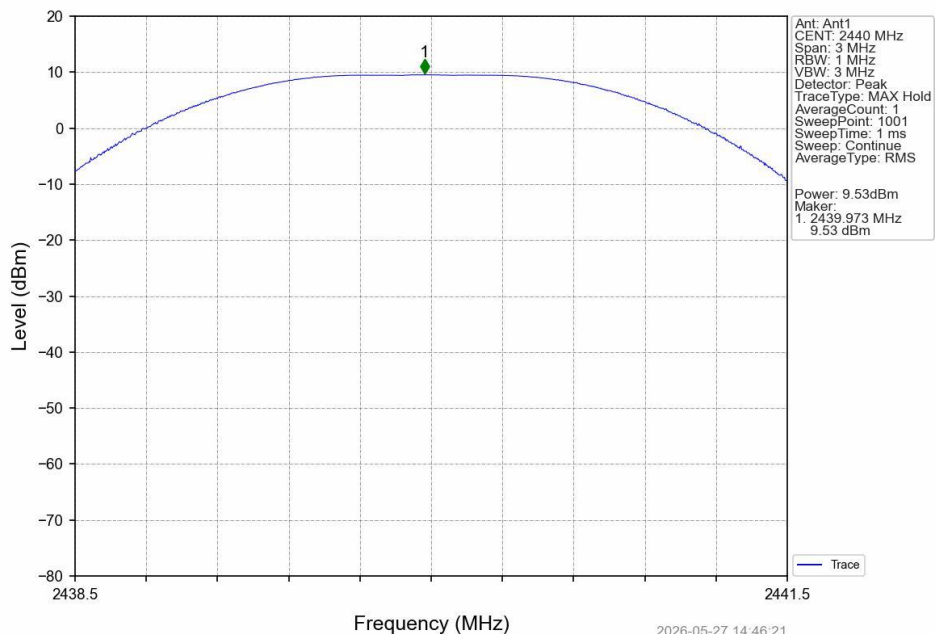
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	9.50	<=30	Pass
		2440	9.53	<=30	Pass
		2480	9.35	<=30	Pass
2M	SISO	2402	9.57	<=30	Pass
		2440	9.61	<=30	Pass
		2480	9.42	<=30	Pass
Note1: Antenna Gain: Ant1: -2.03175dBi;					



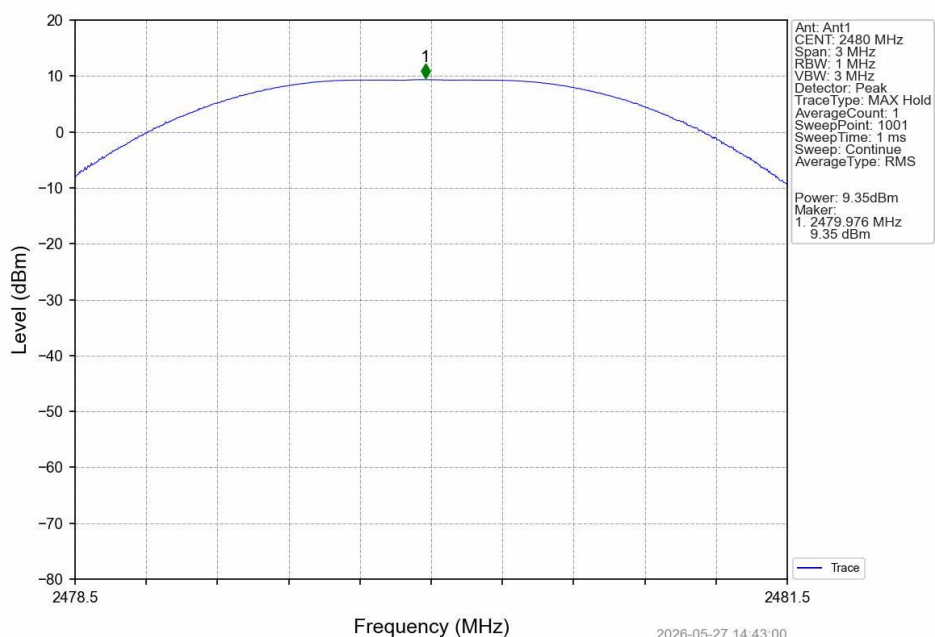
3.2 Test Graph

3.2.1 Power

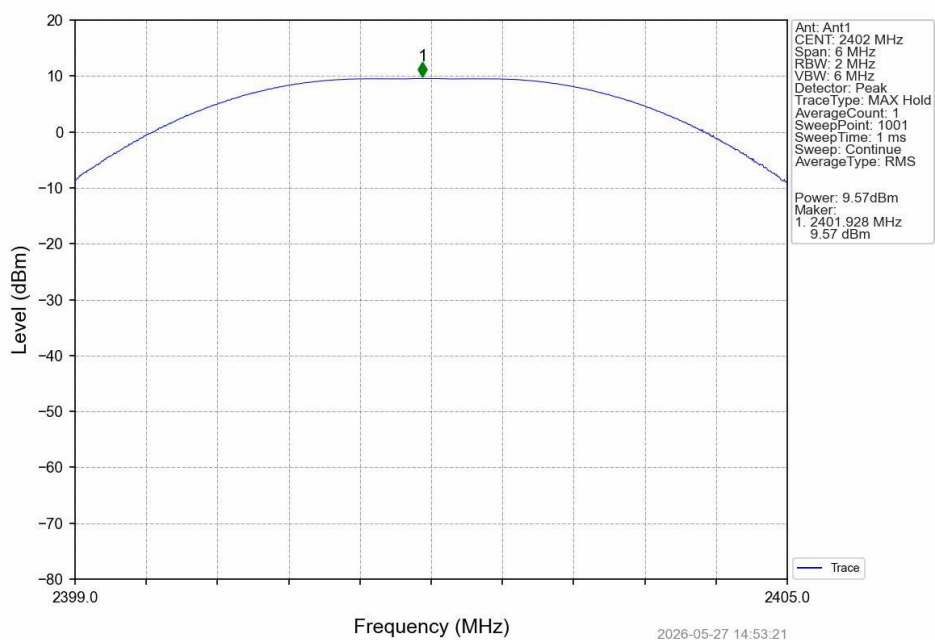




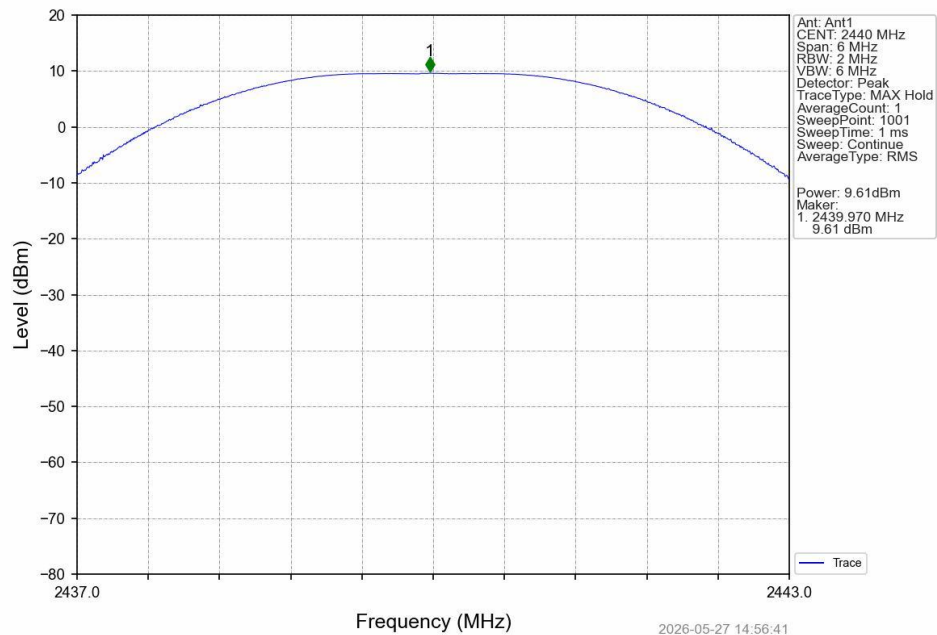
1M_HCH_2480MHz_Ant1_NTNV



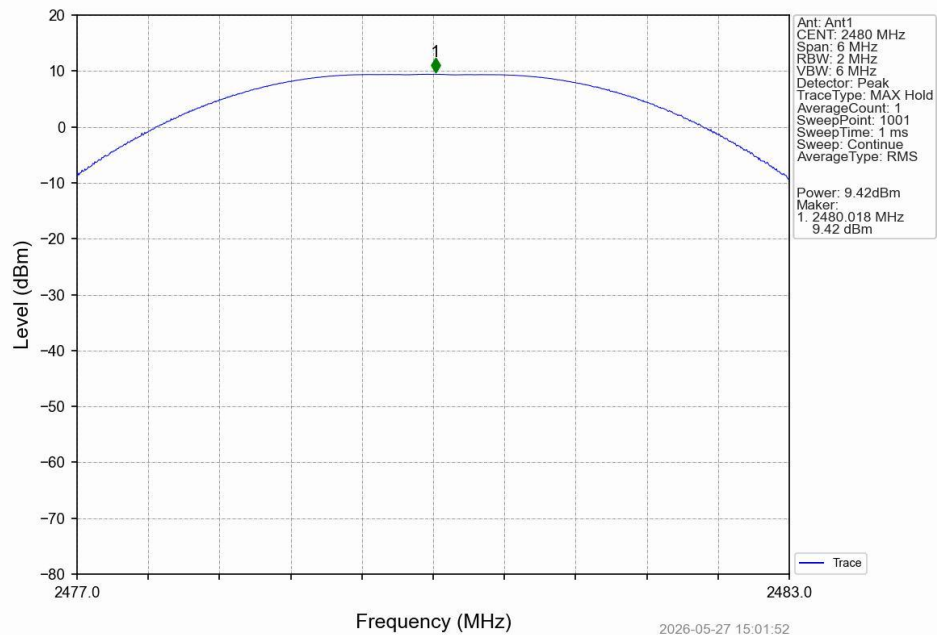
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





4. Maximum Power Spectral Density

4.1 Test Result

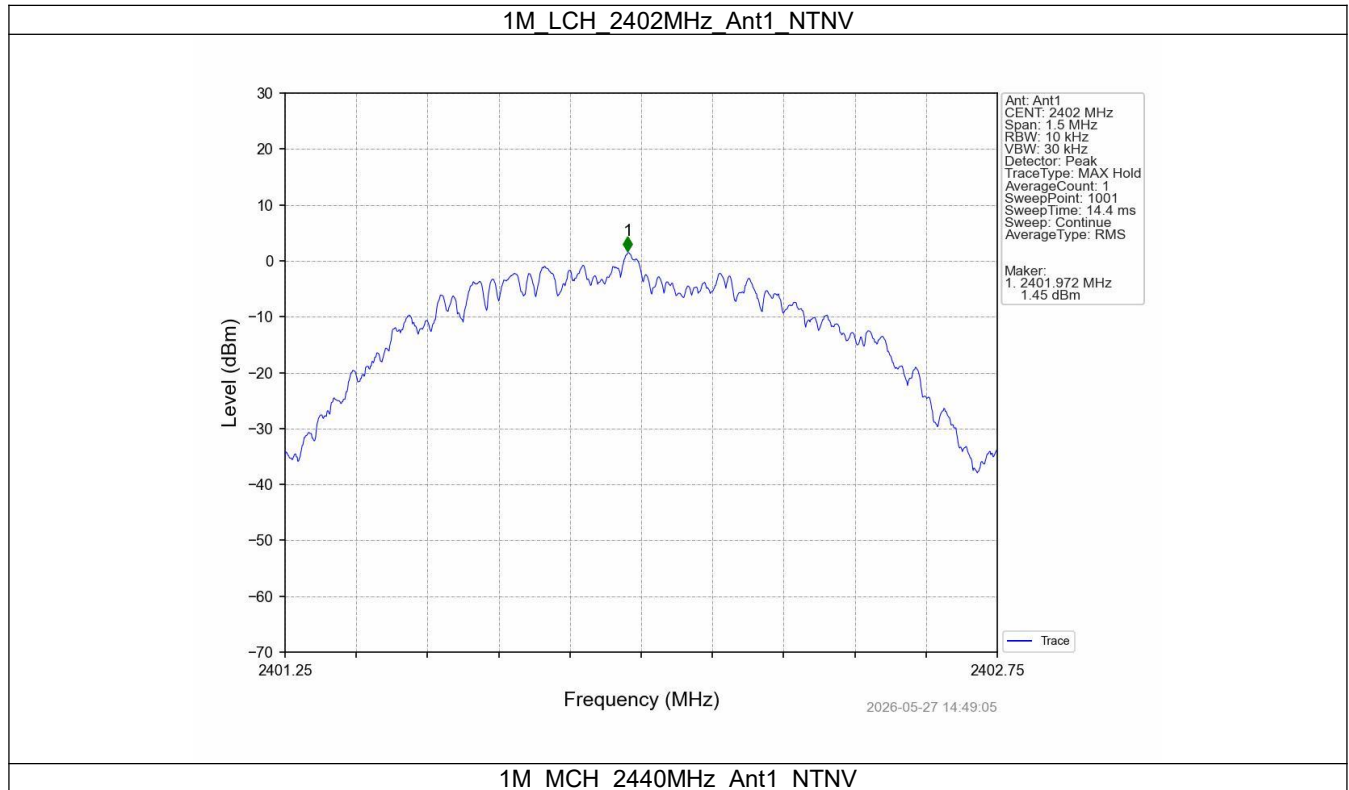
4.1.1 PSD

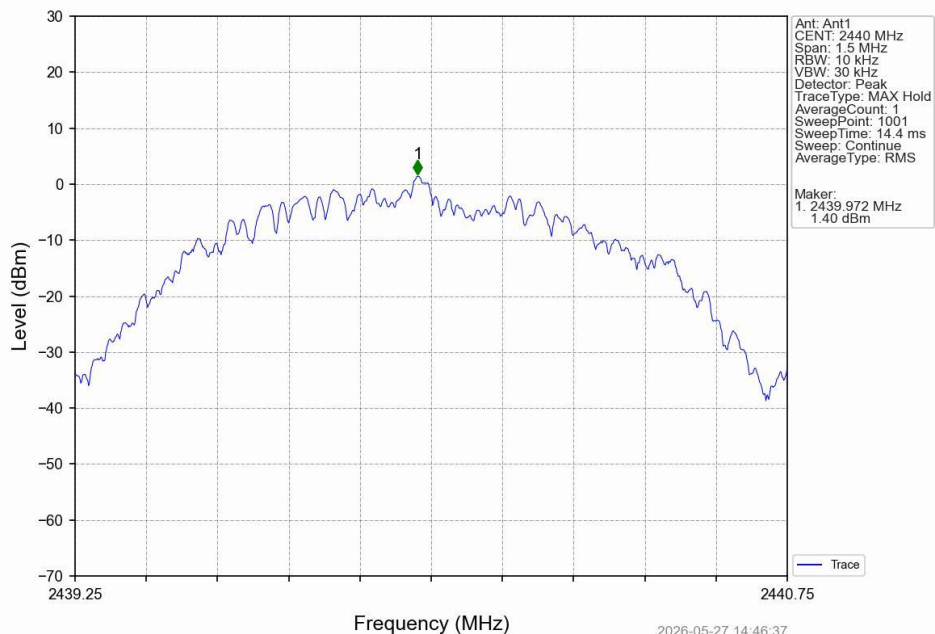
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	1.45dBm/10kHz	<=8	Pass
		2440	1.40dBm/10kHz	<=8	Pass
		2480	1.32dBm/10kHz	<=8	Pass
2M	SISO	2402	1.48dBm/10kHz	<=8	Pass
		2440	1.30dBm/10kHz	<=8	Pass
		2480	7.77dBm/30kHz	<=8	Pass

Note1: Antenna Gain: Ant1: -2.03175dBi;

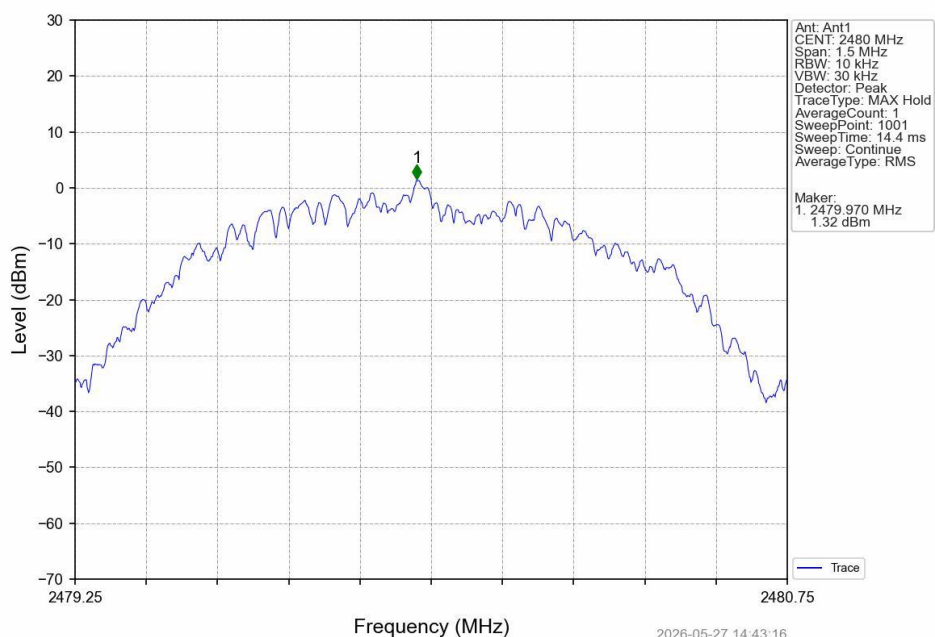
4.2 Test Graph

4.2.1 PSD

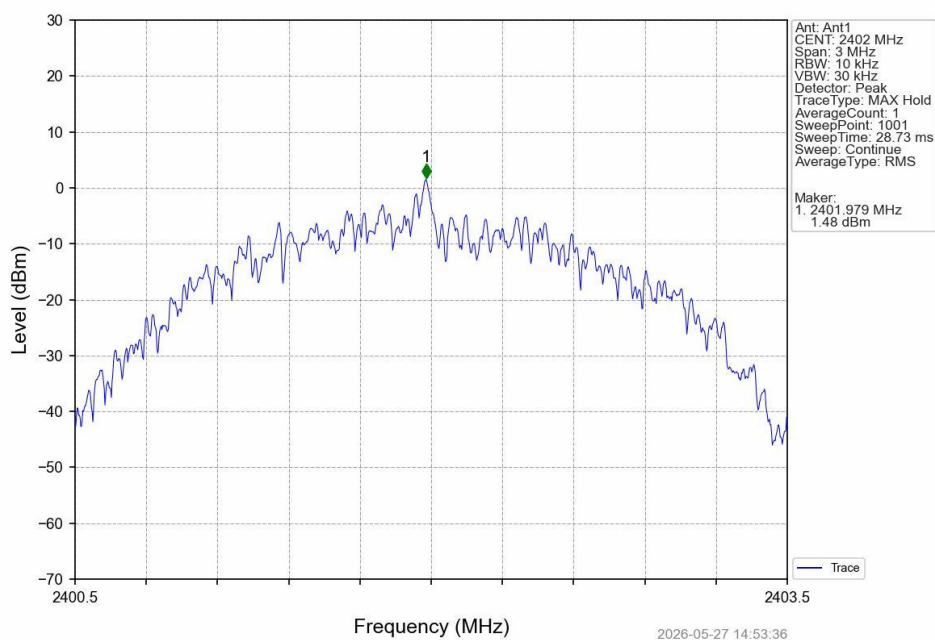




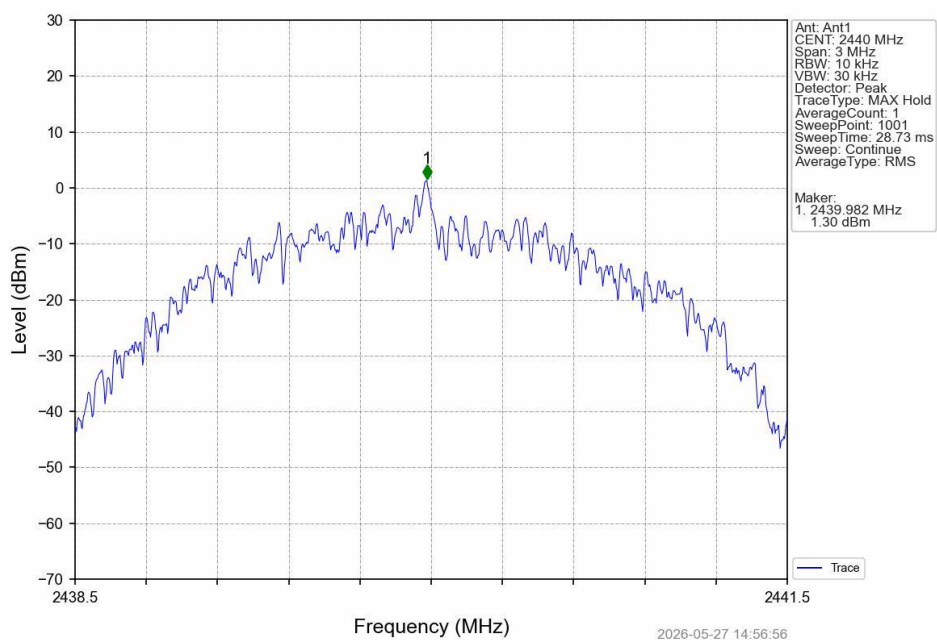
1M_HCH_2480MHz_Ant1_NTNV



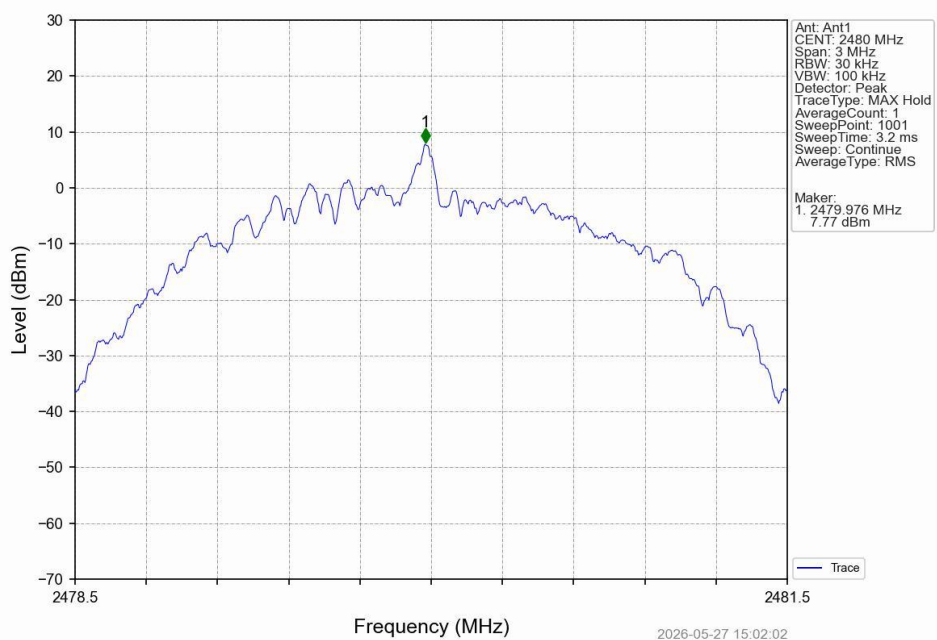
2M_LCH_2402MHz_Ant1_NTNV



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	9.43
		2440	1	9.45
		2480	1	9.26
2M	SISO	2402	1	9.52
		2440	1	9.40
		2480	1	8.97

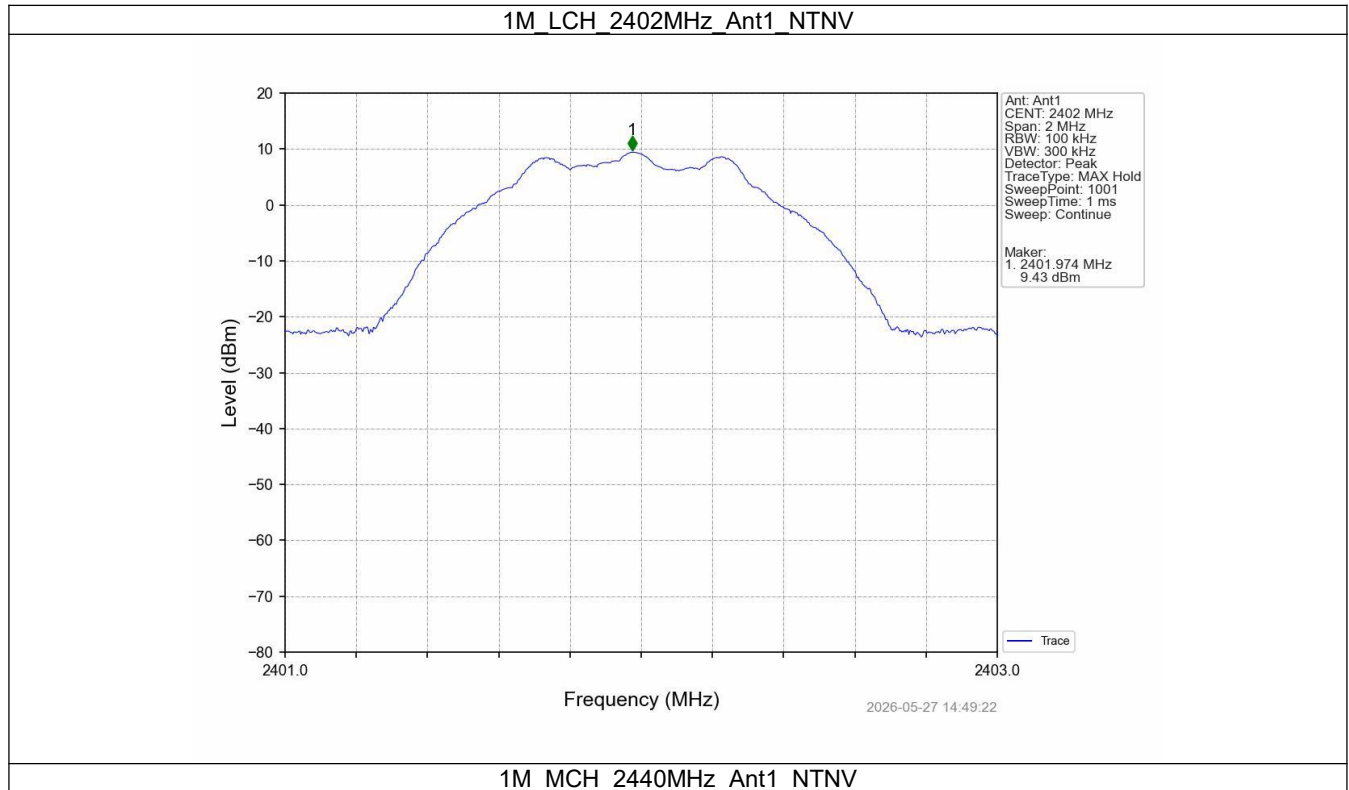
5.1.2 CSE

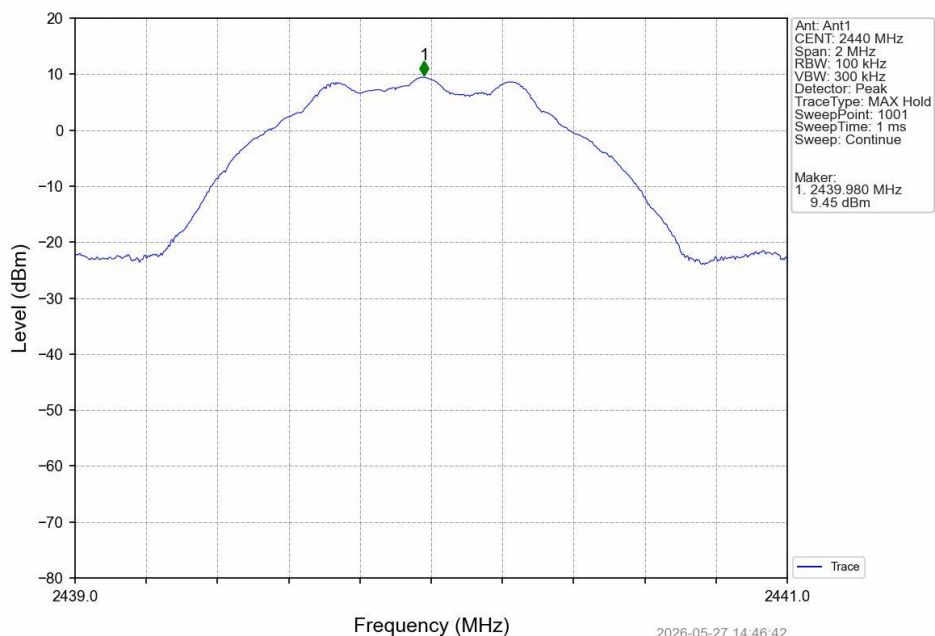
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	9.45	-10.55	Pass
		2440	1	9.45	-10.55	Pass
		2480	1	9.45	-10.55	Pass
2M	SISO	2402	1	9.52	-10.48	Pass
		2440	1	9.52	-10.48	Pass
		2480	1	9.52	-10.48	Pass



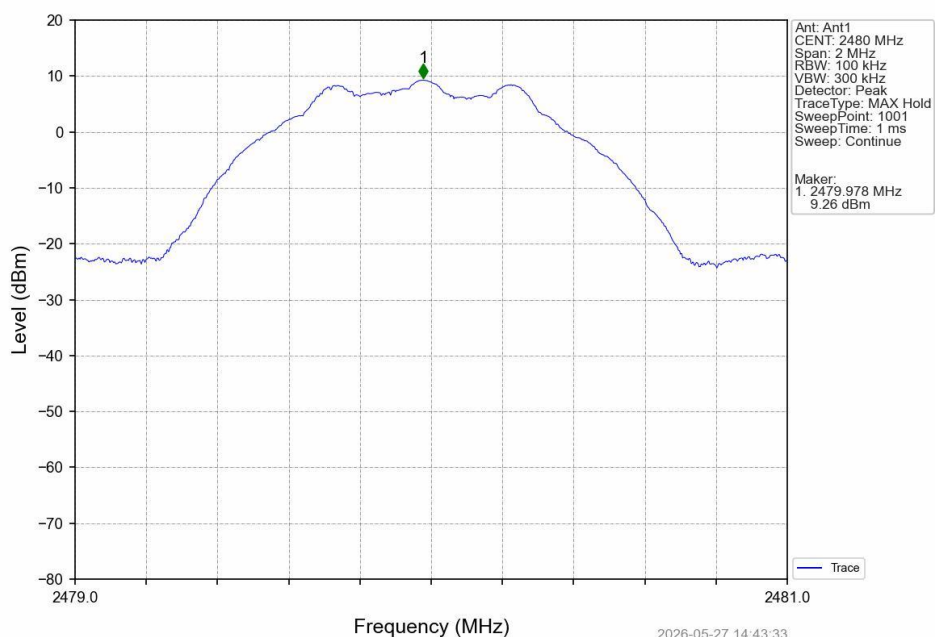
5.2 Test Graph

5.2.1 Ref

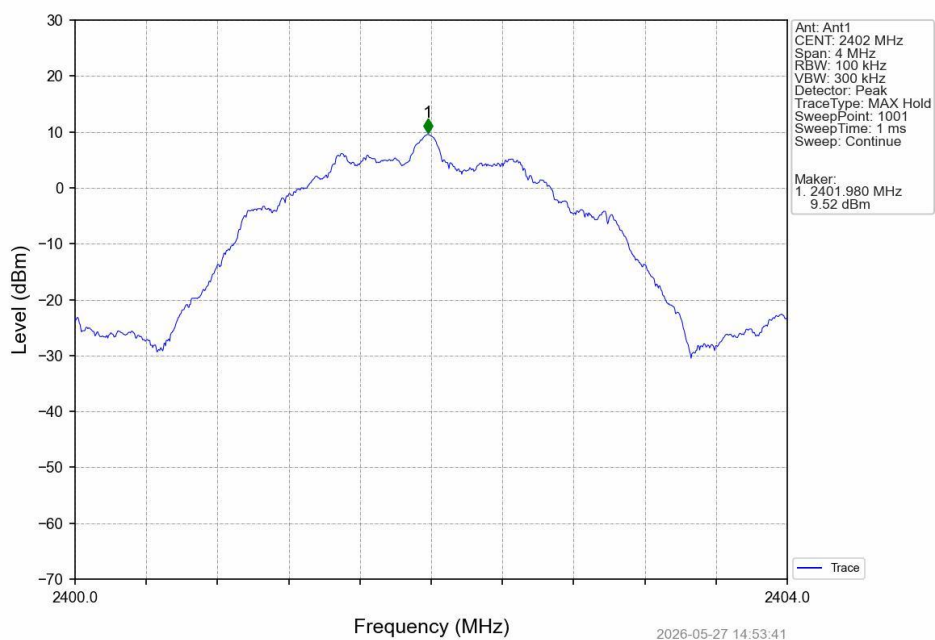




1M_HCH_2480MHz_Ant1_NTNV

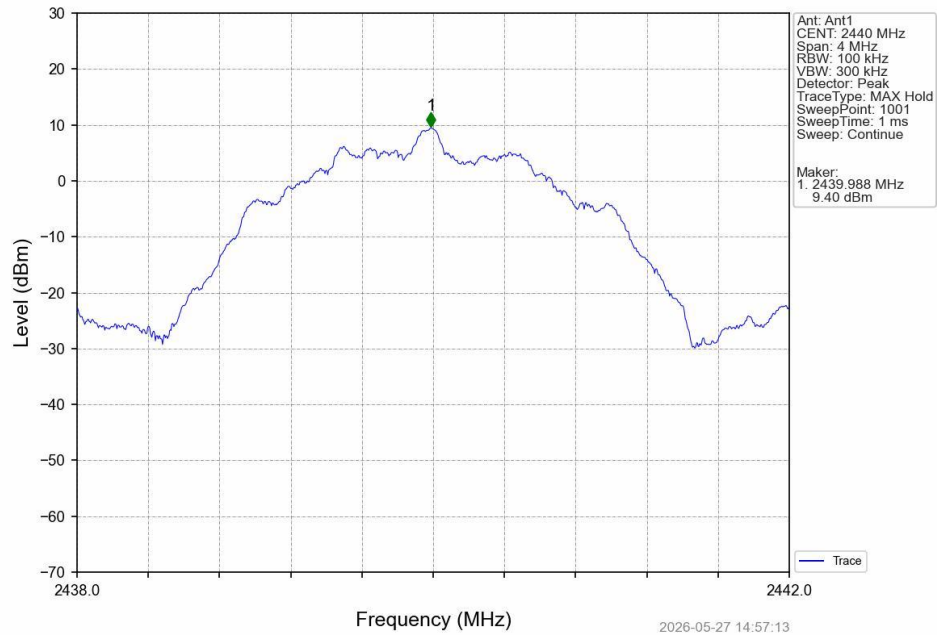


2M_LCH_2402MHz_Ant1_NTNV

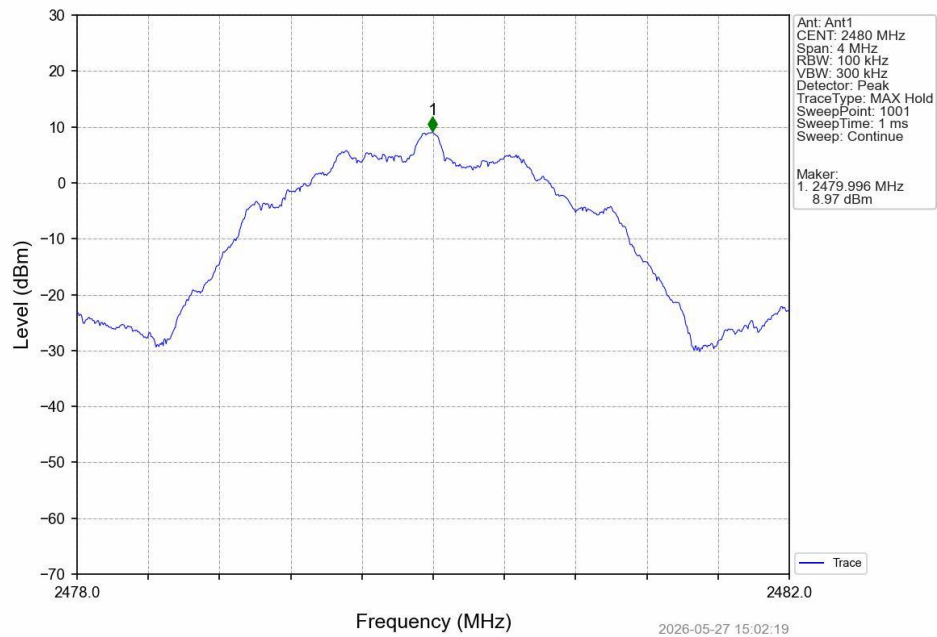




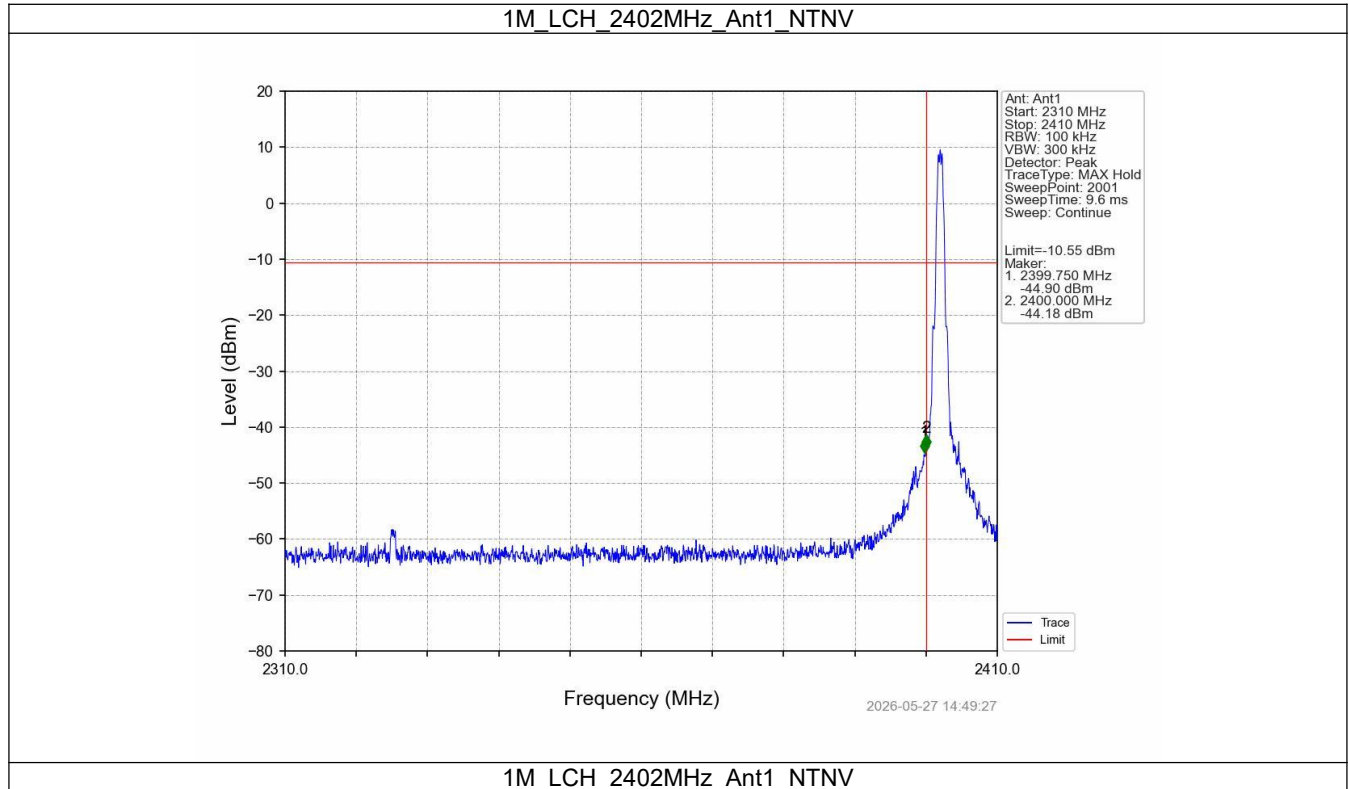
2M_MCH_2440MHz_Ant1_NTNV

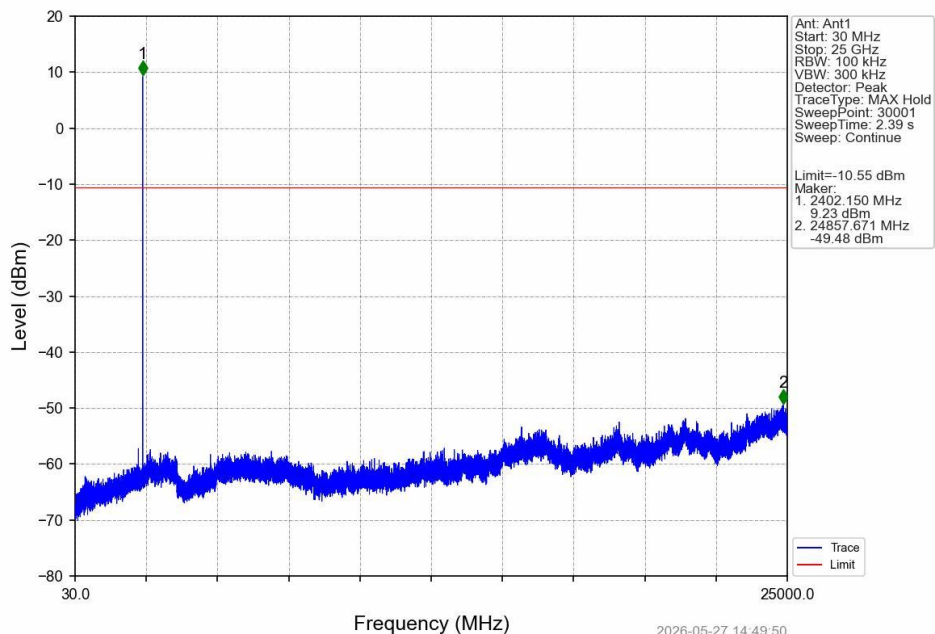


2M_HCH_2480MHz_Ant1_NTNV

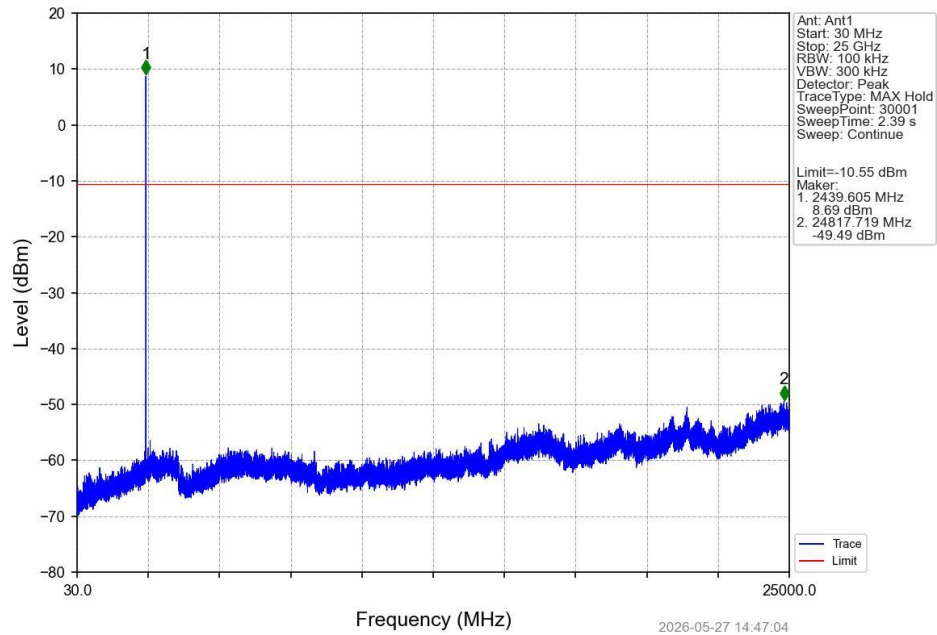


5.2.2 CSE

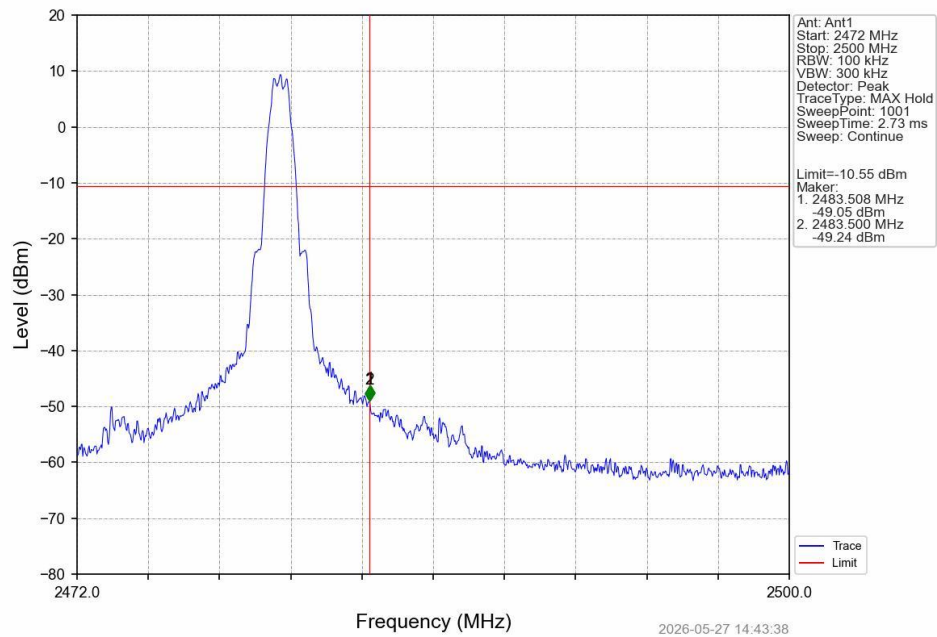




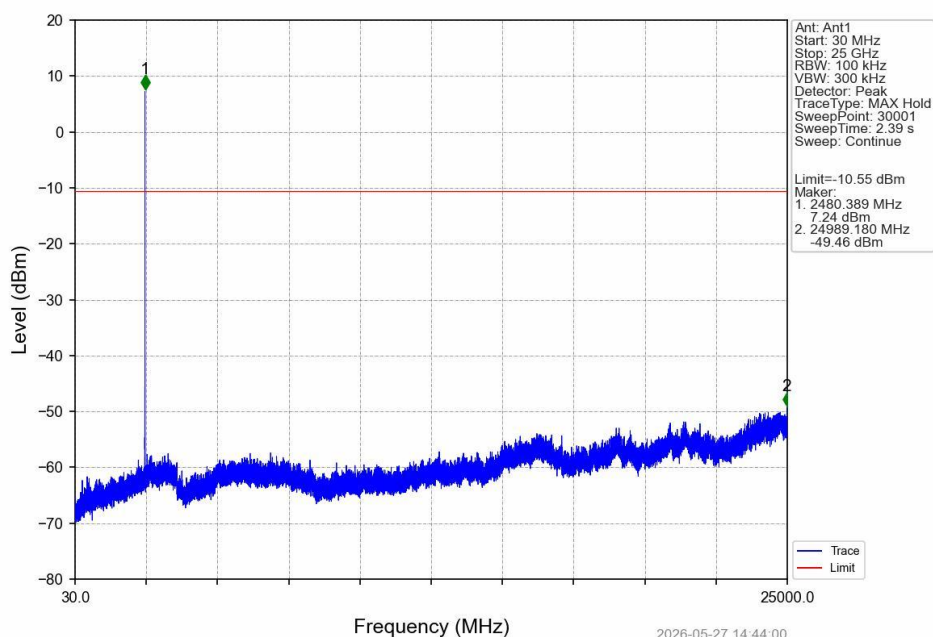
1M_MCH_2440MHz_Ant1_NTNV



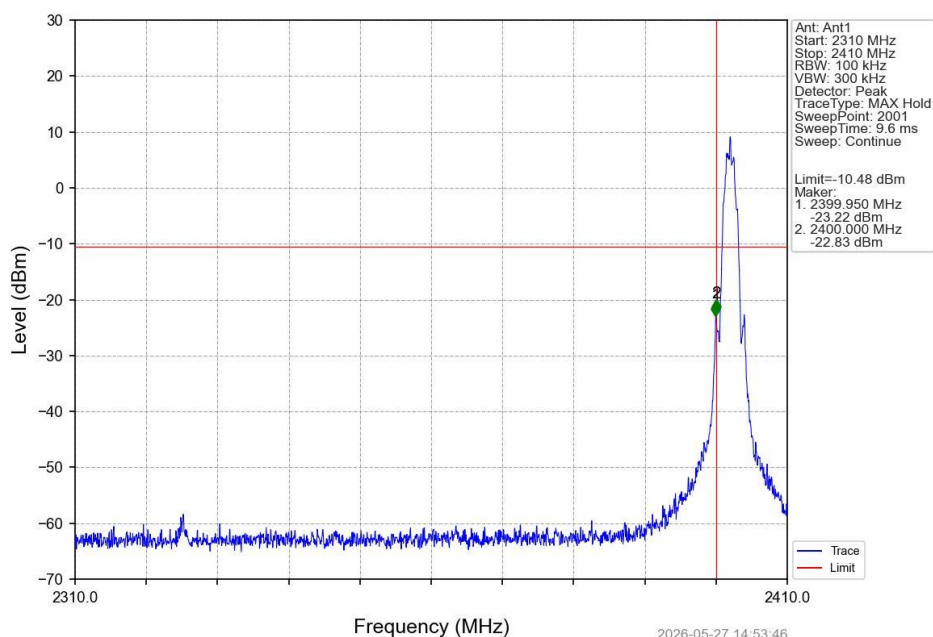
1M_HCH_2480MHz_Ant1_NTNV



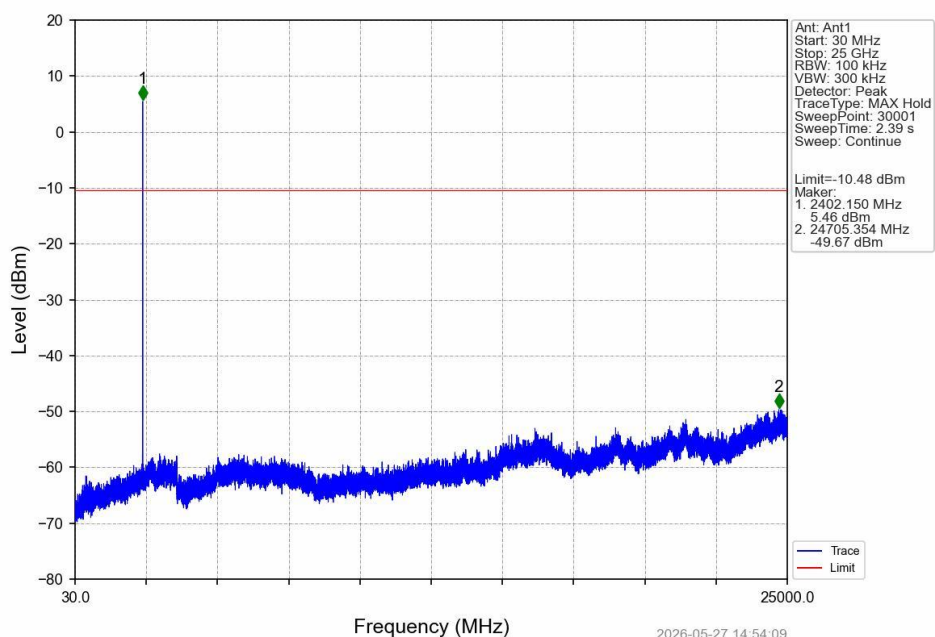
1M_HCH_2480MHz_Ant1_NTNV



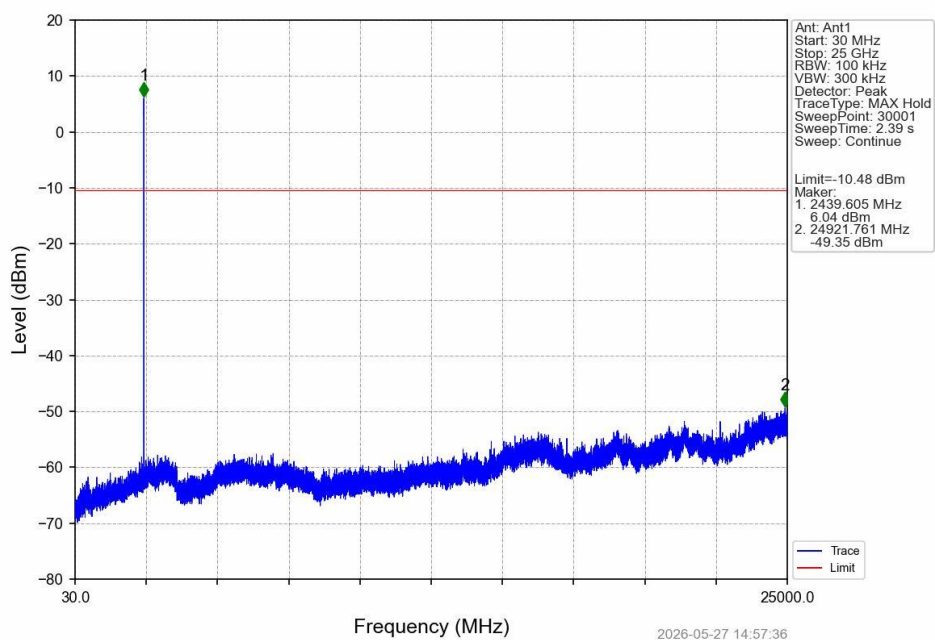
2M_LCH_2402MHz_Ant1_NTNV



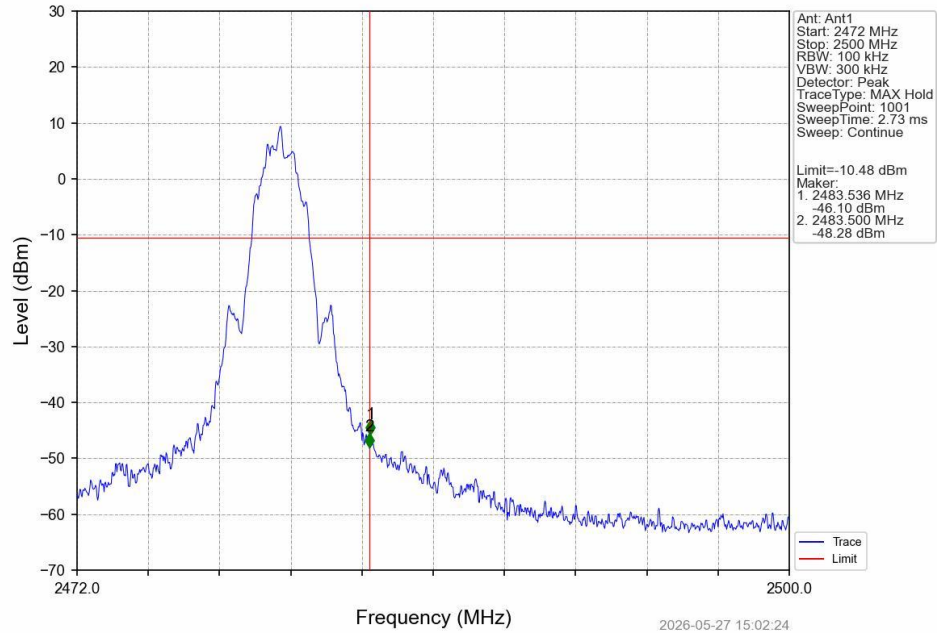
2M_LCH_2402MHz_Ant1_NTNV



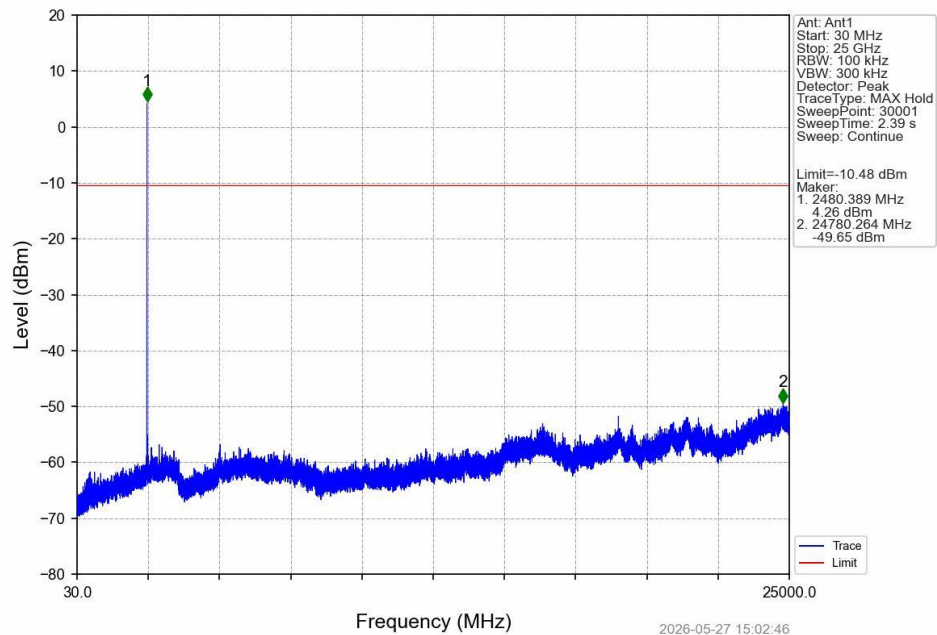
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





6. Unwanted Emissions In Restricted Frequency Bands

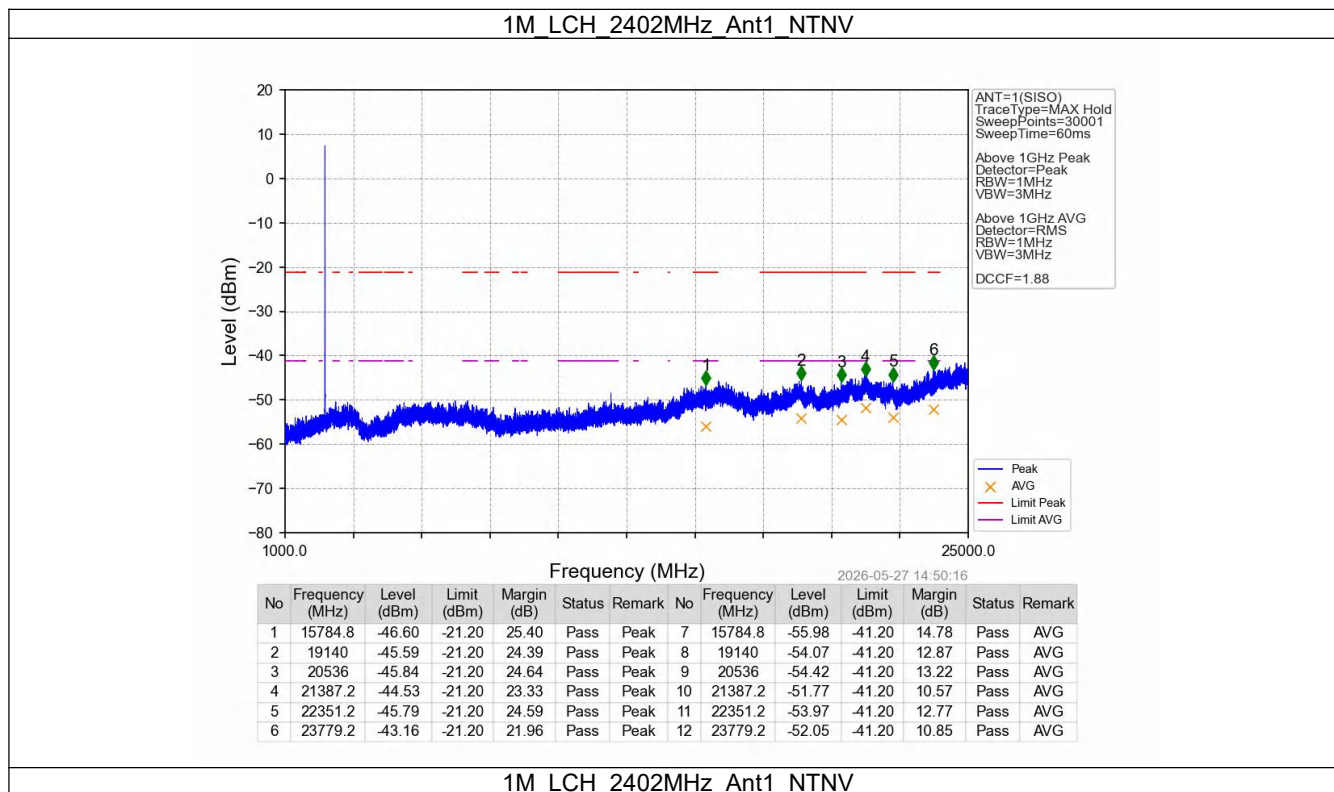
6.1 Test Result

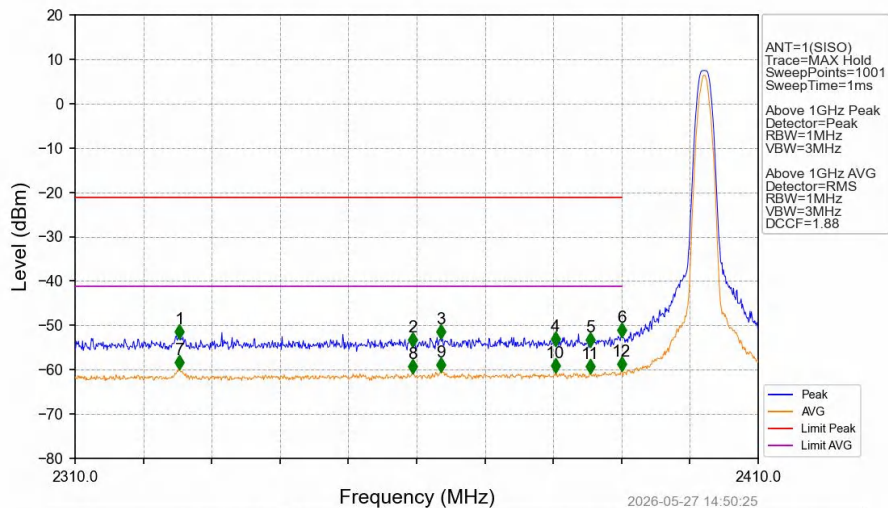
6.1.1 RSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
1M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test Graph		Pass
2M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test Graph		Pass

6.2 Test Graph

6.2.1 RSE



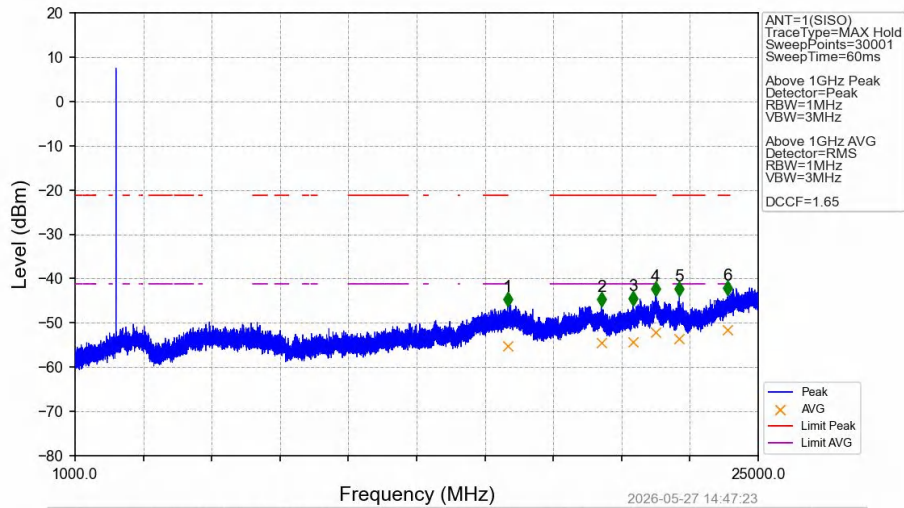


2026-05-27 14:50:25

No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2325.300	-53.02	-21.20	31.82	Pass	Peak	7	2325.300	-59.88	-41.20	18.68	Pass	AVG
2	2359.400	-54.89	-21.20	33.69	Pass	Peak	8	2359.400	-60.76	-41.20	19.56	Pass	AVG
3	2363.500	-52.98	-21.20	31.78	Pass	Peak	9	2363.500	-60.50	-41.20	19.30	Pass	AVG
4	2380.300	-54.67	-21.20	33.47	Pass	Peak	10	2380.300	-60.65	-41.20	19.45	Pass	AVG
5	2385.400	-54.83	-21.20	33.63	Pass	Peak	11	2385.400	-60.82	-41.20	19.62	Pass	AVG
6	2390.000	-52.59	-21.20	31.39	Pass	Peak	12	2390.000	-60.35	-41.20	19.15	Pass	AVG

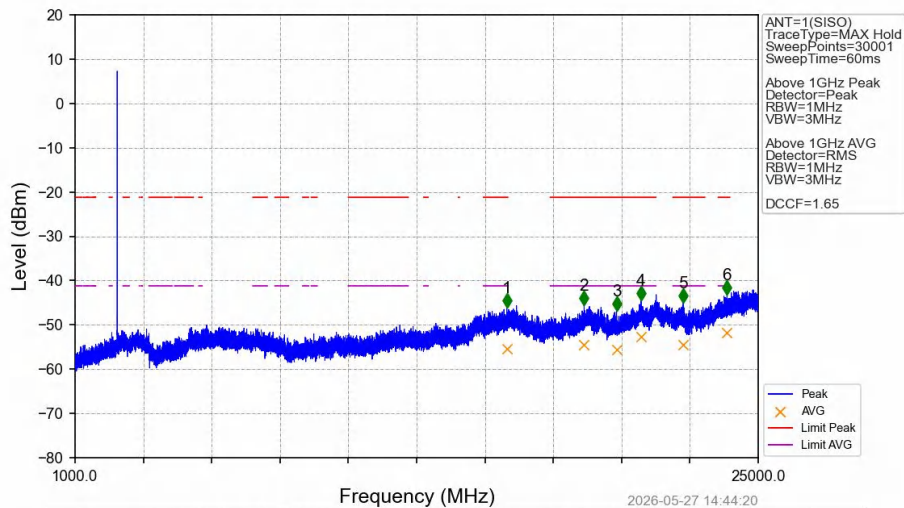


1M_MCH_2440MHz_Ant1_NTNV



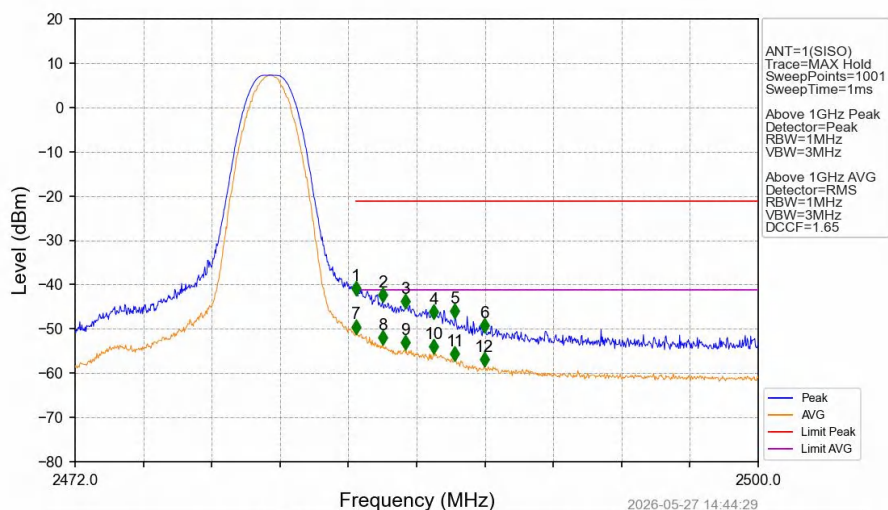
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	16193.6	-46.22	-21.20	25.02	Pass	Peak	7	16193.6	-55.26	-41.20	14.06	Pass	AVG
2	19490.4	-46.18	-21.20	24.98	Pass	Peak	8	19490.4	-54.46	-41.20	13.26	Pass	AVG
3	20596	-46.11	-21.20	24.91	Pass	Peak	9	20596	-54.40	-41.20	13.20	Pass	AVG
4	21392.8	-43.87	-21.20	22.67	Pass	Peak	10	21392.8	-52.12	-41.20	10.92	Pass	AVG
5	22227.2	-43.92	-21.20	22.72	Pass	Peak	11	22227.2	-53.63	-41.20	12.43	Pass	AVG
6	23933.6	-43.74	-21.20	22.54	Pass	Peak	12	23933.6	-51.61	-41.20	10.41	Pass	AVG

1M_HCH_2480MHz_Ant1_NTNV



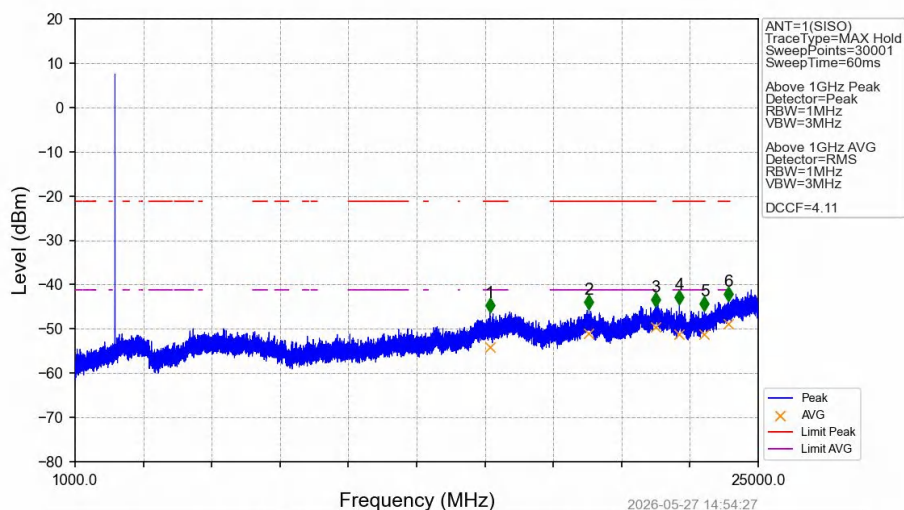
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	16168.8	-46.00	-21.20	24.80	Pass	Peak	7	16168.8	-55.39	-41.20	14.19	Pass	AVG
2	18884	-45.49	-21.20	24.29	Pass	Peak	8	18884	-54.56	-41.20	13.36	Pass	AVG
3	20023.2	-46.86	-21.20	25.66	Pass	Peak	9	20023.2	-55.63	-41.20	14.43	Pass	AVG
4	20880	-44.38	-21.20	23.18	Pass	Peak	10	20880	-52.64	-41.20	11.44	Pass	AVG
5	22365.6	-44.89	-21.20	23.69	Pass	Peak	11	22365.6	-54.45	-41.20	13.25	Pass	AVG
6	23904	-43.11	-21.20	21.91	Pass	Peak	12	23904	-51.68	-41.20	10.48	Pass	AVG

1M_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2483.508	-42.45	-21.20	21.25	Pass	Peak	7	2483.508	-51.08	-41.20	9.88	Pass	AVG
2	2484.600	-43.90	-21.20	22.70	Pass	Peak	8	2484.600	-53.56	-41.20	12.36	Pass	AVG
3	2485.524	-45.38	-21.20	24.18	Pass	Peak	9	2485.524	-54.63	-41.20	13.43	Pass	AVG
4	2486.700	-47.71	-21.20	26.51	Pass	Peak	10	2486.700	-55.48	-41.20	14.28	Pass	AVG
5	2487.568	-47.51	-21.20	26.31	Pass	Peak	11	2487.568	-57.16	-41.20	15.96	Pass	AVG
6	2488.772	-50.75	-21.20	29.55	Pass	Peak	12	2488.772	-58.50	-41.20	17.30	Pass	AVG

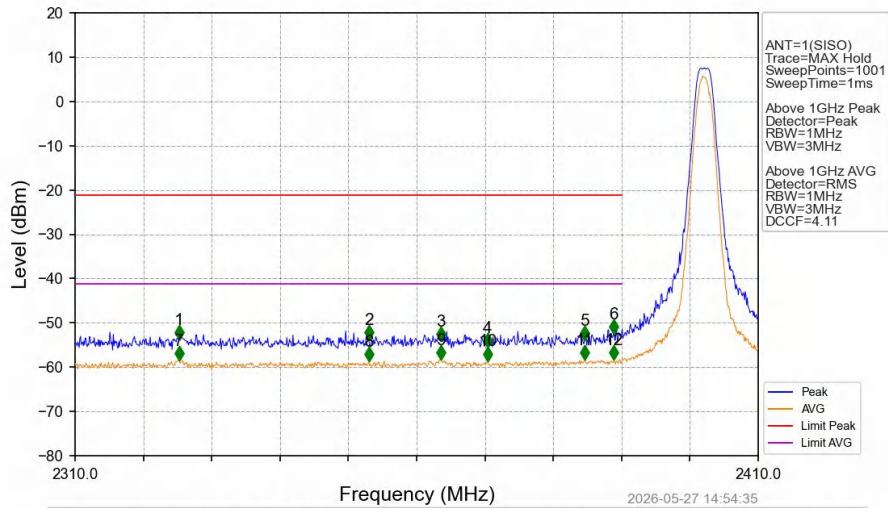
2M_LCH_2402MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	15574.4	-46.33	-21.20	25.13	Pass	Peak	7	15574.4	-54.06	-41.20	12.86	Pass	AVG
2	19055.2	-45.46	-21.20	24.26	Pass	Peak	8	19055.2	-51.10	-41.20	9.90	Pass	AVG
3	21389.6	-44.89	-21.20	23.69	Pass	Peak	9	21389.6	-49.53	-41.20	8.33	Pass	AVG
4	22229.6	-44.50	-21.20	23.30	Pass	Peak	10	22229.6	-51.14	-41.20	9.94	Pass	AVG
5	23112	-45.83	-21.20	24.63	Pass	Peak	11	23112	-51.20	-41.20	10.00	Pass	AVG
6	23955.2	-43.77	-21.20	22.57	Pass	Peak	12	23955.2	-48.94	-41.20	7.74	Pass	AVG

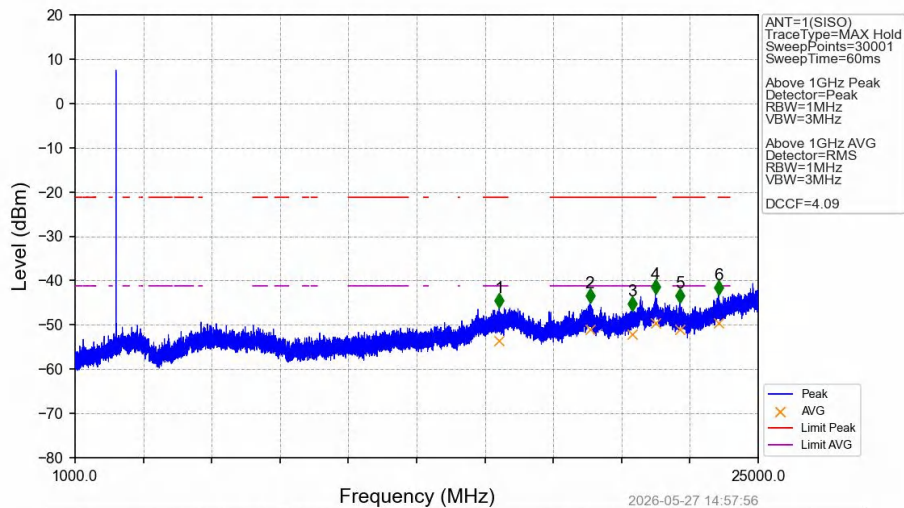


2M_LCH_2402MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2325.200	-53.66	-21.20	32.46	Pass	Peak	7	2325.200	-58.46	-41.20	17.26	Pass	AVG
2	2353.000	-53.74	-21.20	32.54	Pass	Peak	8	2353.000	-58.67	-41.20	17.47	Pass	AVG
3	2363.500	-54.14	-21.20	32.94	Pass	Peak	9	2363.500	-58.22	-41.20	17.02	Pass	AVG
4	2370.400	-55.52	-21.20	34.32	Pass	Peak	10	2370.400	-58.54	-41.20	17.34	Pass	AVG
5	2384.600	-53.90	-21.20	32.70	Pass	Peak	11	2384.600	-58.21	-41.20	17.01	Pass	AVG
6	2388.900	-52.36	-21.20	31.16	Pass	Peak	12	2388.900	-58.20	-41.20	17.00	Pass	AVG

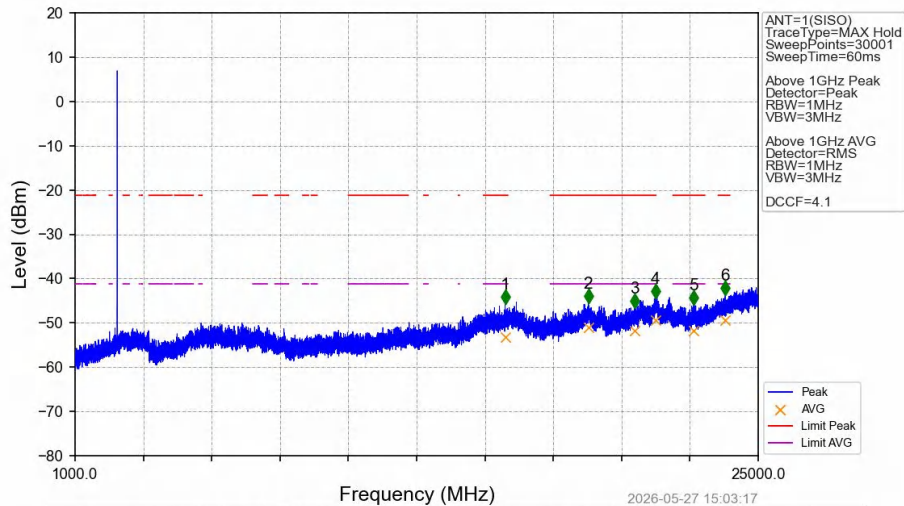
2M_MCH_2440MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	15898.4	-46.11	-21.20	24.91	Pass	Peak	7	15898.4	-53.59	-41.20	12.39	Pass	AVG
2	19087.2	-44.99	-21.20	23.79	Pass	Peak	8	19087.2	-51.12	-41.20	9.92	Pass	AVG
3	20579.2	-46.82	-21.20	25.62	Pass	Peak	9	20579.2	-52.07	-41.20	10.87	Pass	AVG
4	21385.6	-43.03	-21.20	21.83	Pass	Peak	10	21385.6	-49.66	-41.20	8.46	Pass	AVG
5	22248.8	-44.91	-21.20	23.71	Pass	Peak	11	22248.8	-51.10	-41.20	9.90	Pass	AVG
6	23607.2	-43.21	-21.20	22.01	Pass	Peak	12	23607.2	-49.52	-41.20	8.32	Pass	AVG



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV

