



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK260420015A01E0101

RF Test Report

For BTEK260420015A01E01

Project No.:	BTEK260420015A01E01
Product Description:	21.2℃, 66%, 102.0kPa
Test Engineer:	Zora
Test Date:	2026-04-24



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK260420015A01E0101

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

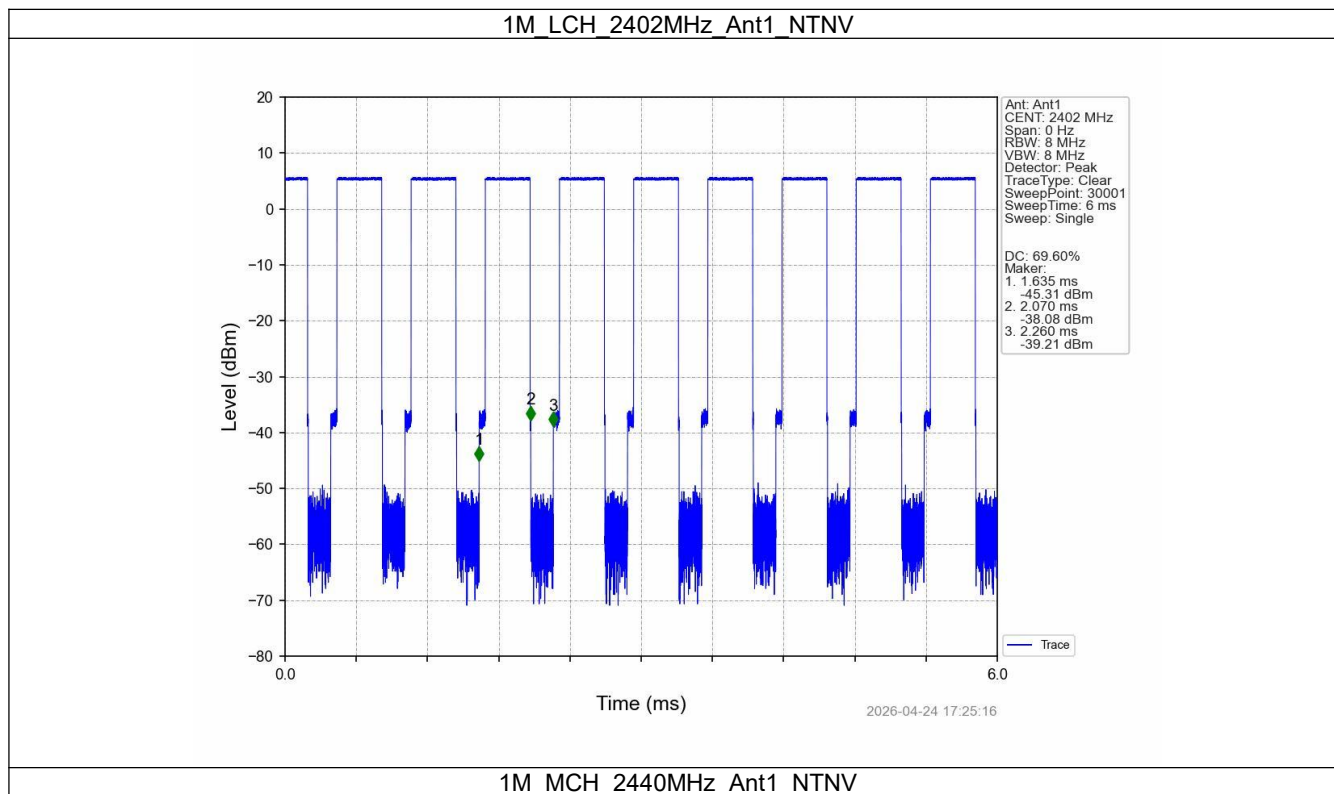
1.1.1 Ant1

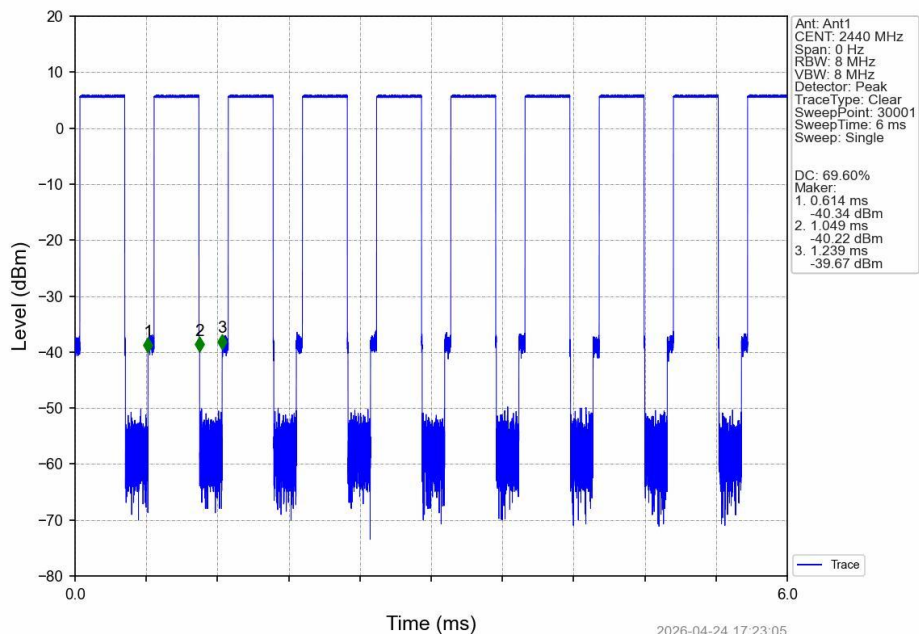
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.435	0.625	69.60	1.57	0.05
		2440	0.435	0.625	69.60	1.57	0.00
		2480	0.435	0.625	69.60	1.57	0.03
2M	SISO	2402	0.249	0.625	39.84	4.00	0.00
		2440	0.249	0.625	39.84	4.00	0.00
		2480	0.250	0.625	40.00	3.98	0.03



1.2 Test Graph

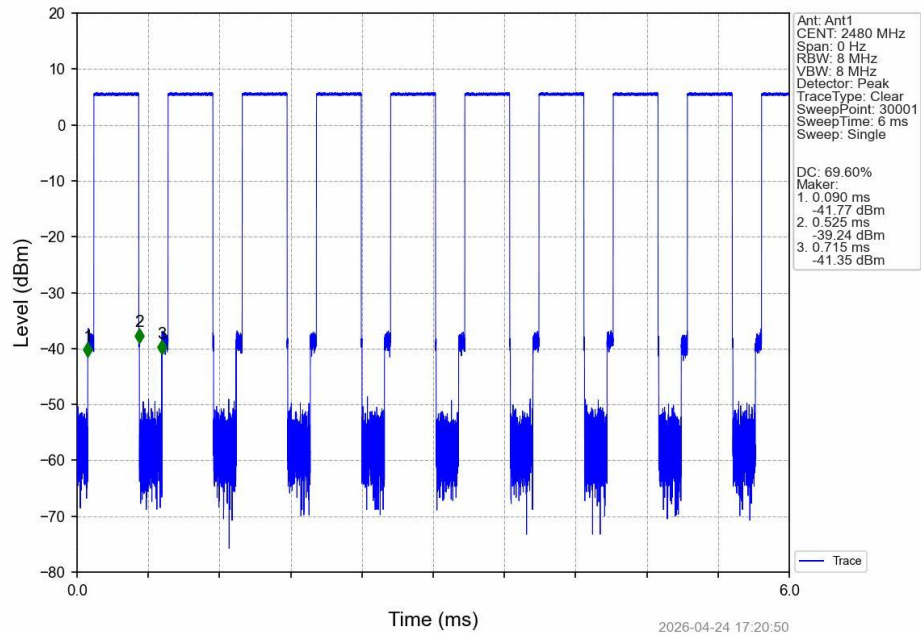
1.2.1 Ant1



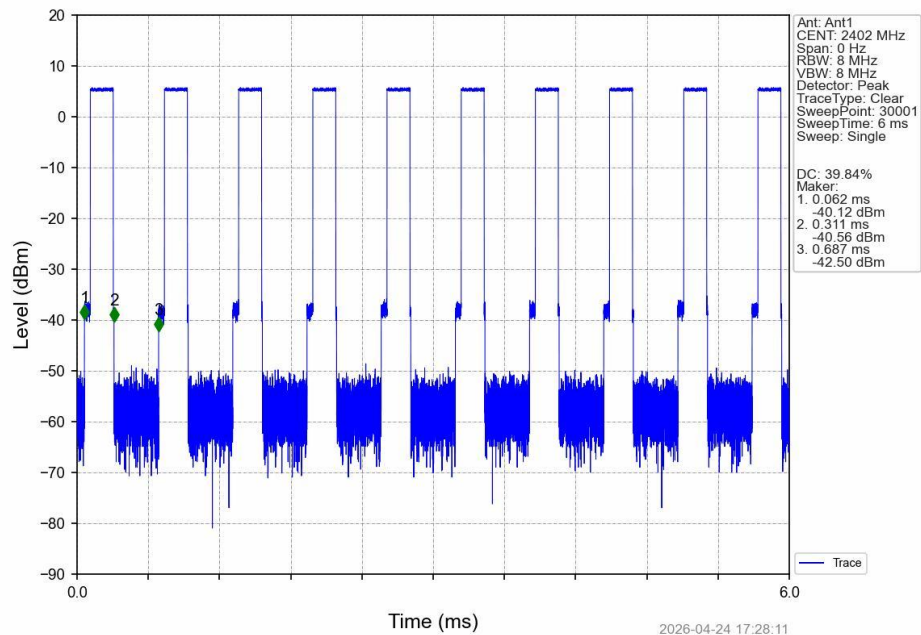




1M_HCH_2480MHz_Ant1_NTNV

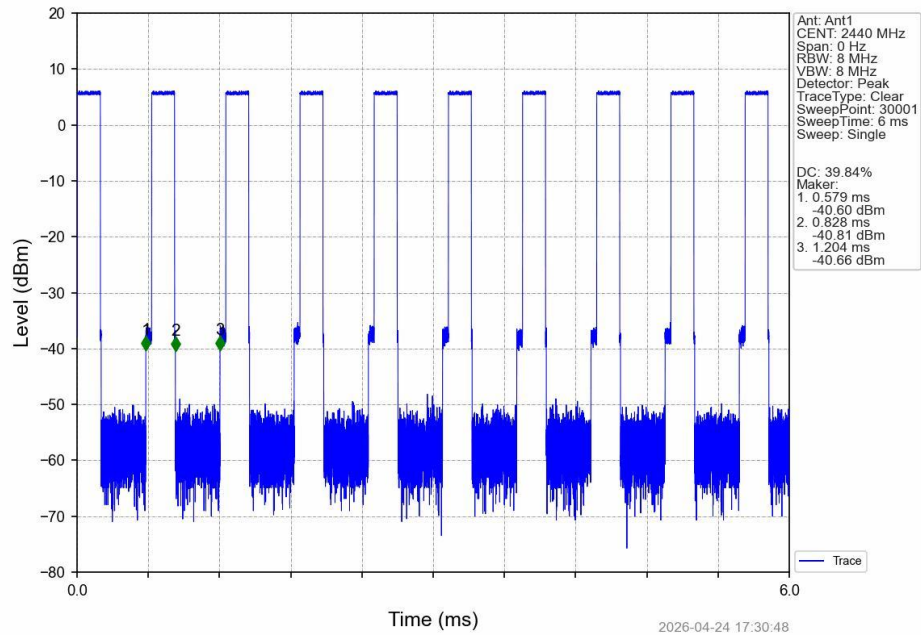


2M_LCH_2402MHz_Ant1_NTNV

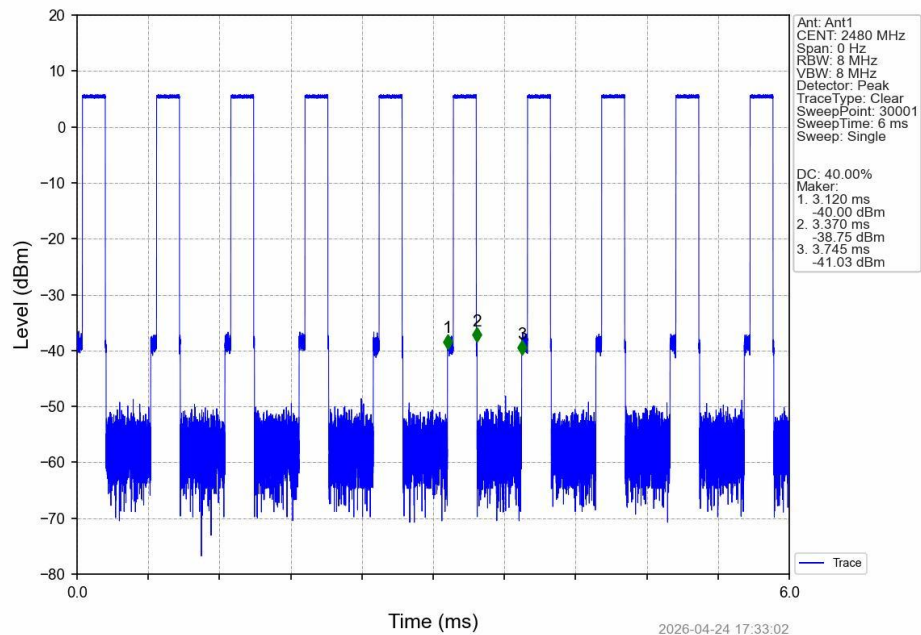




2M_MCH_2440MHz_Ant1_NTNV



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	1.024	/	Pass
		2440	1	1.026	/	Pass
		2480	1	1.025	/	Pass
2M	SISO	2402	1	2.018	/	Pass
		2440	1	2.019	/	Pass
		2480	1	2.022	/	Pass

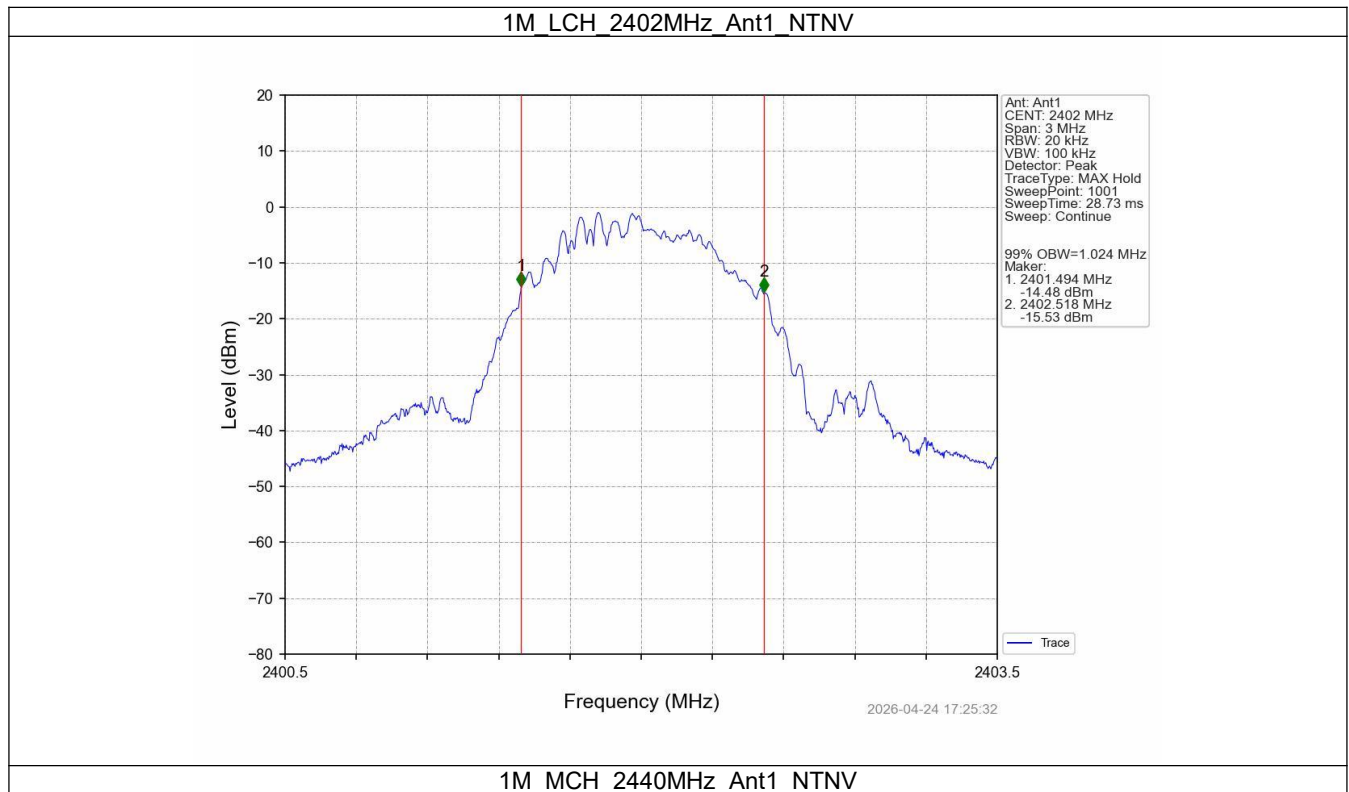
2.1.2 6dB BW

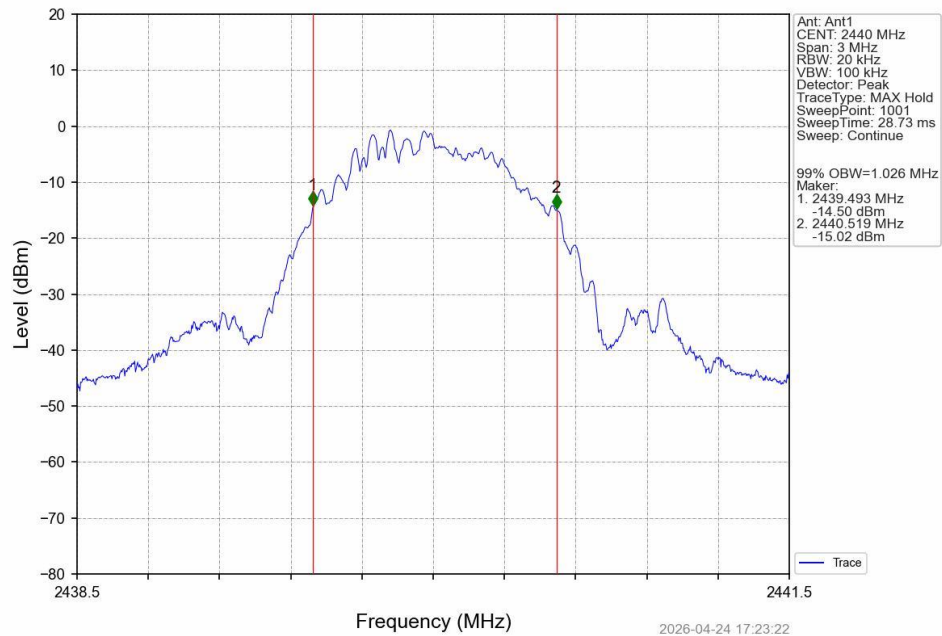
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.698	≥ 0.5	Pass
		2440	1	0.702	≥ 0.5	Pass
		2480	1	0.699	≥ 0.5	Pass
2M	SISO	2402	1	1.207	≥ 0.5	Pass
		2440	1	1.204	≥ 0.5	Pass
		2480	1	1.205	≥ 0.5	Pass



2.2 Test Graph

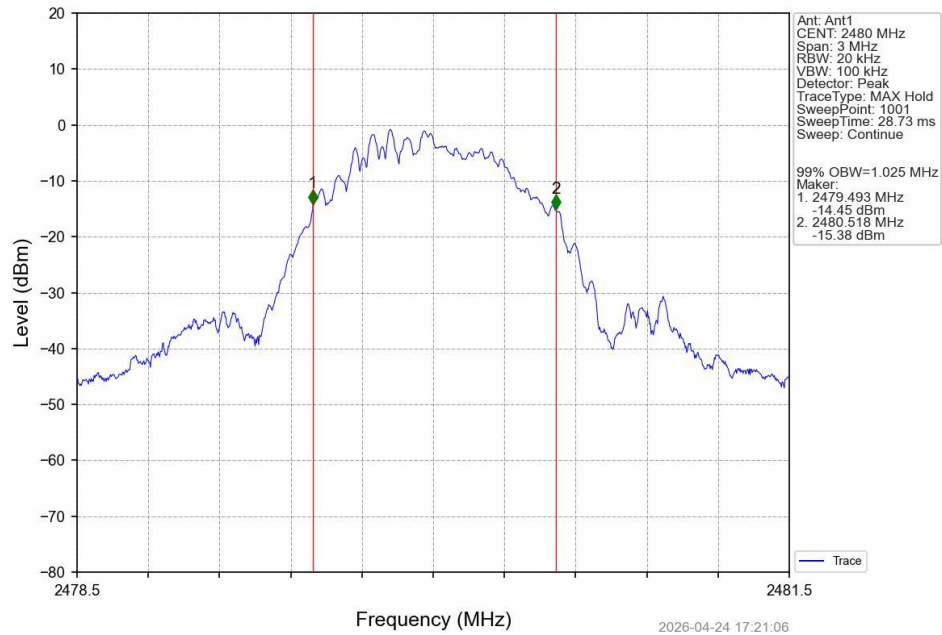
2.2.1 OBW



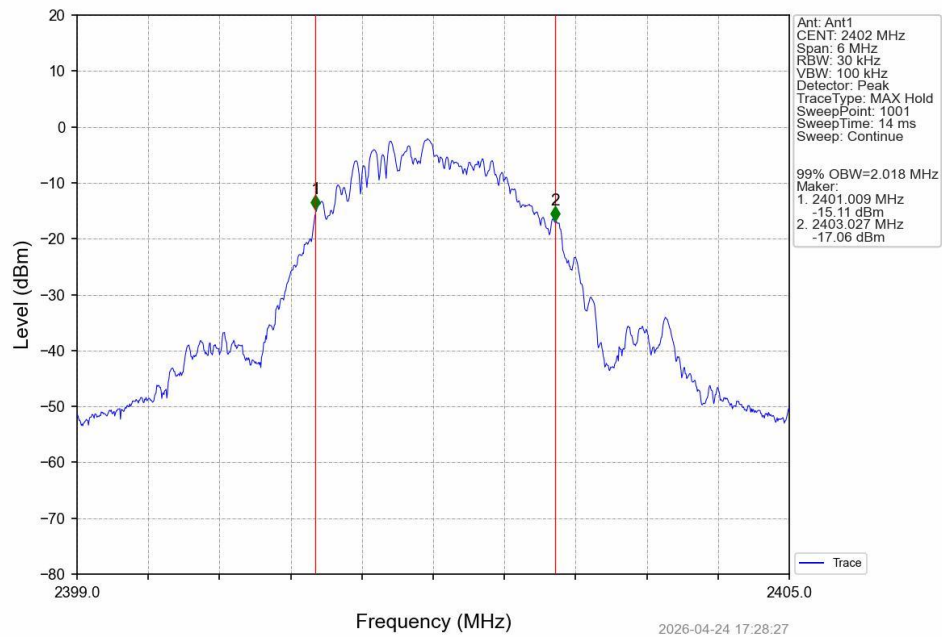




1M_HCH_2480MHz_Ant1_NTNV

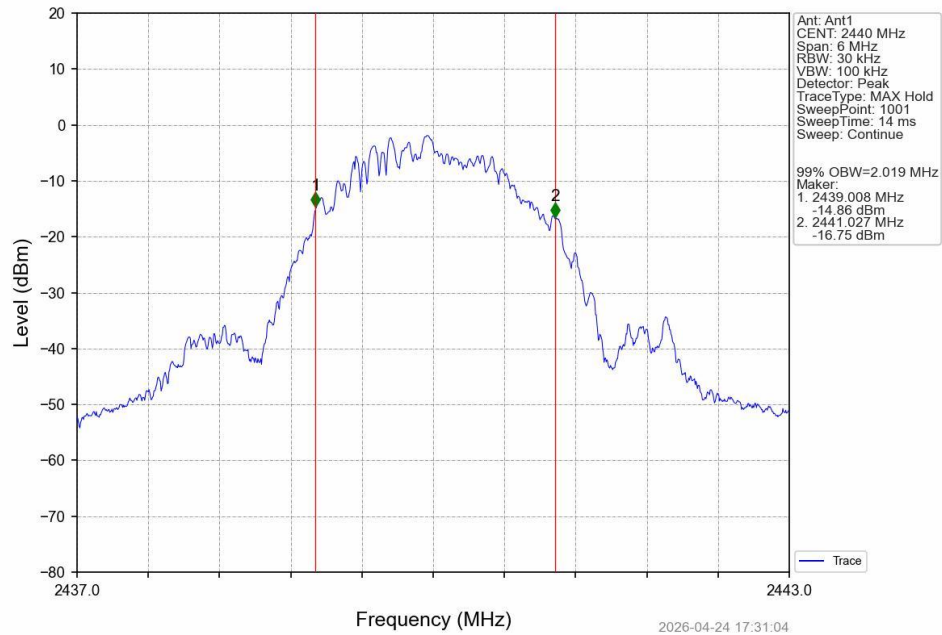


2M_LCH_2402MHz_Ant1_NTNV

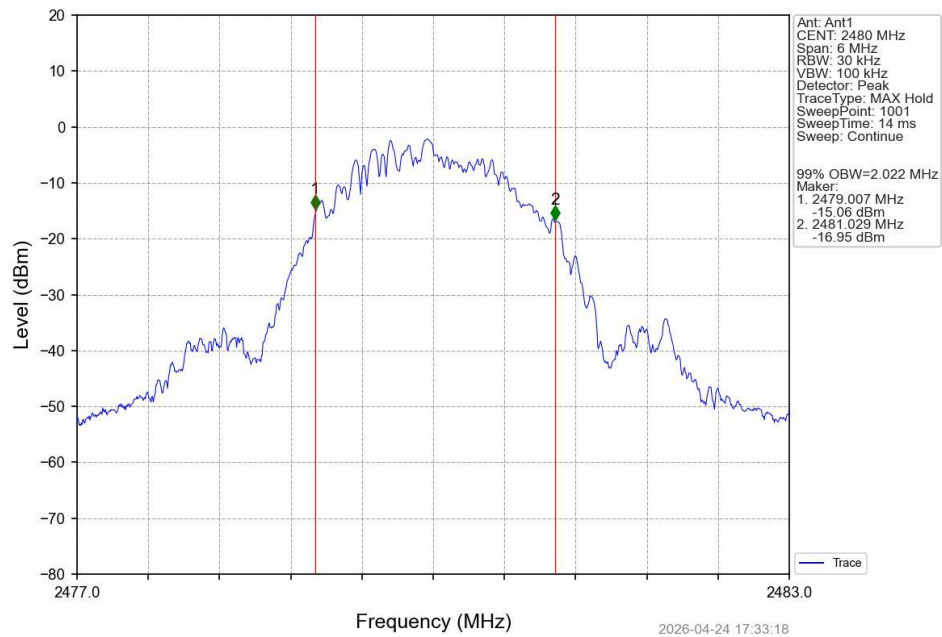




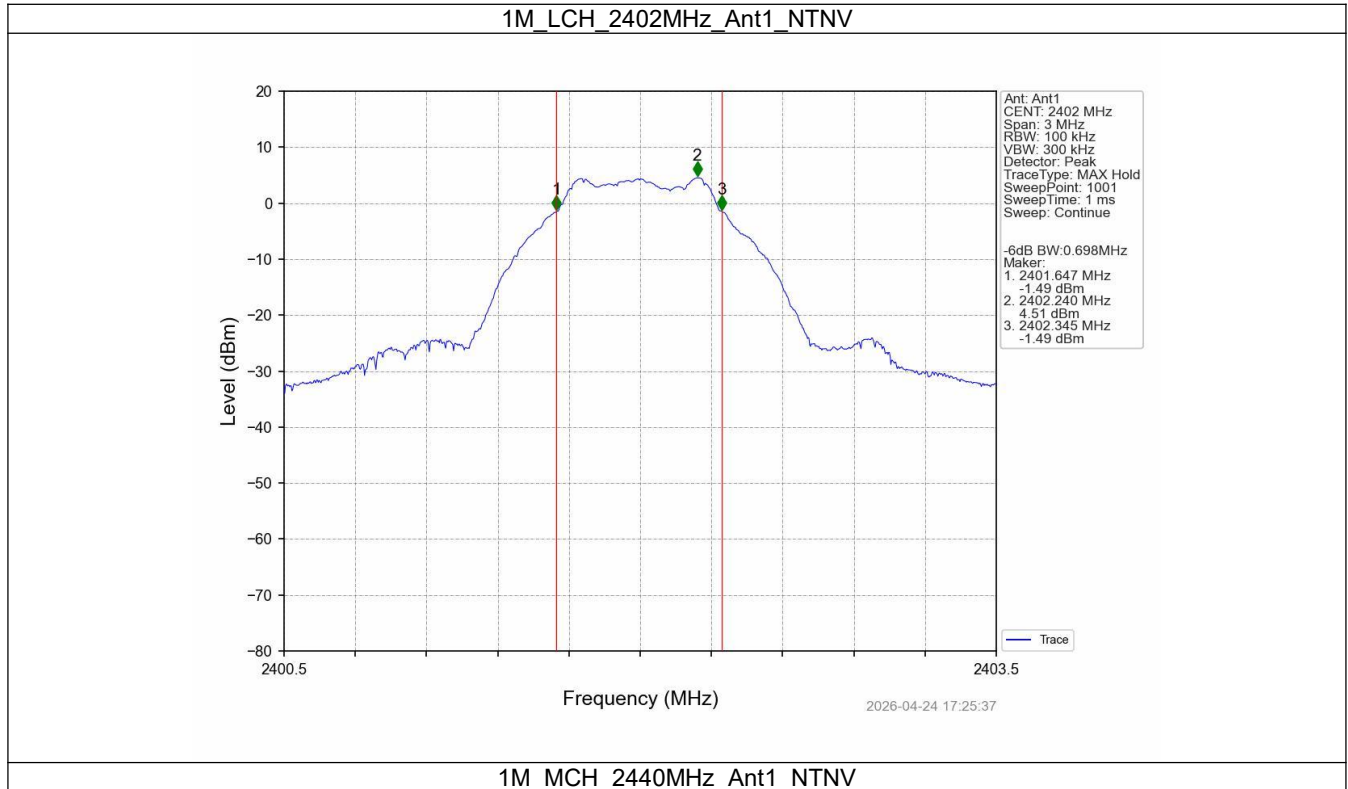
2M_MCH_2440MHz_Ant1_NTNV

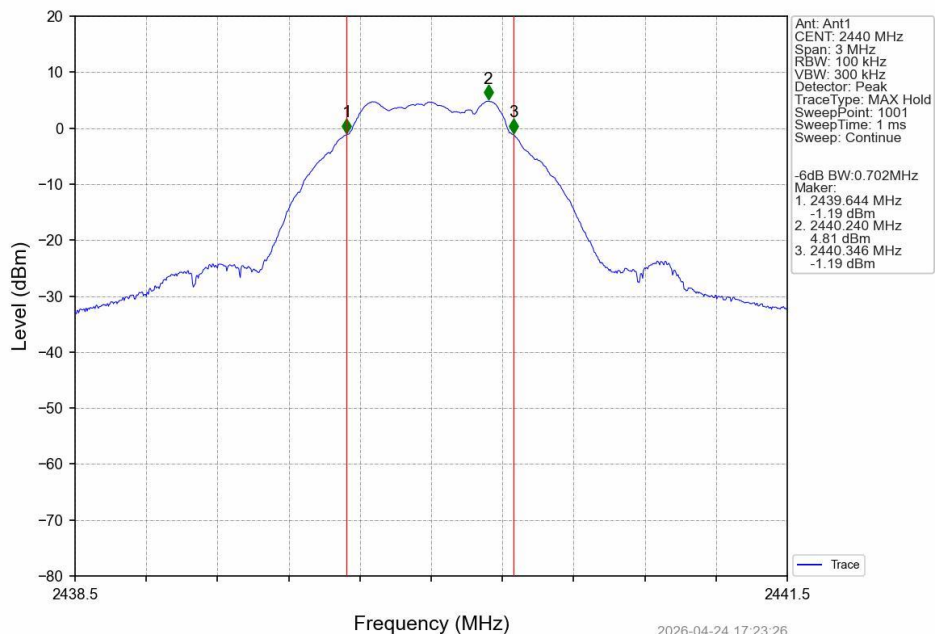


2M_HCH_2480MHz_Ant1_NTNV

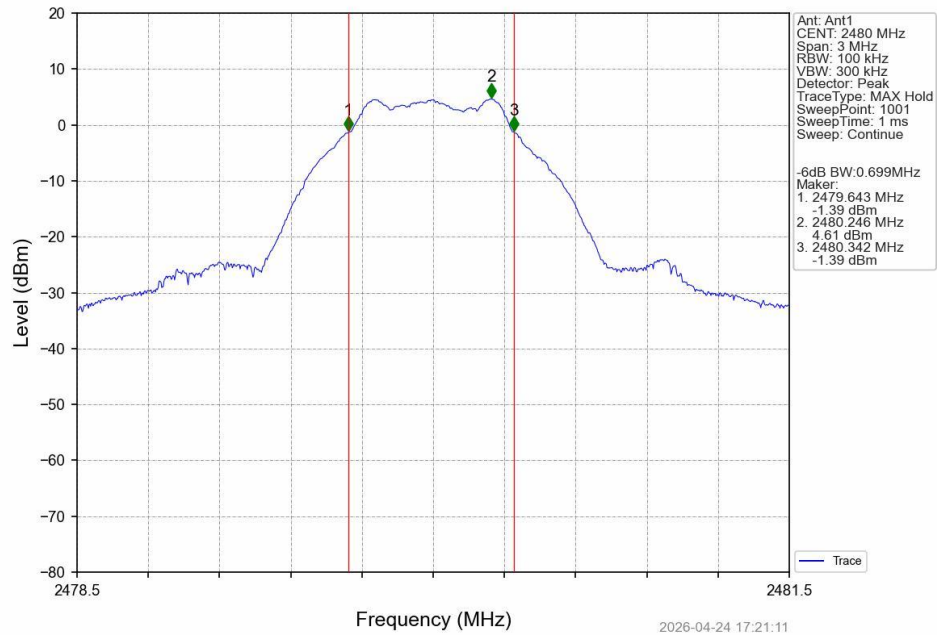


2.2.2 6dB BW

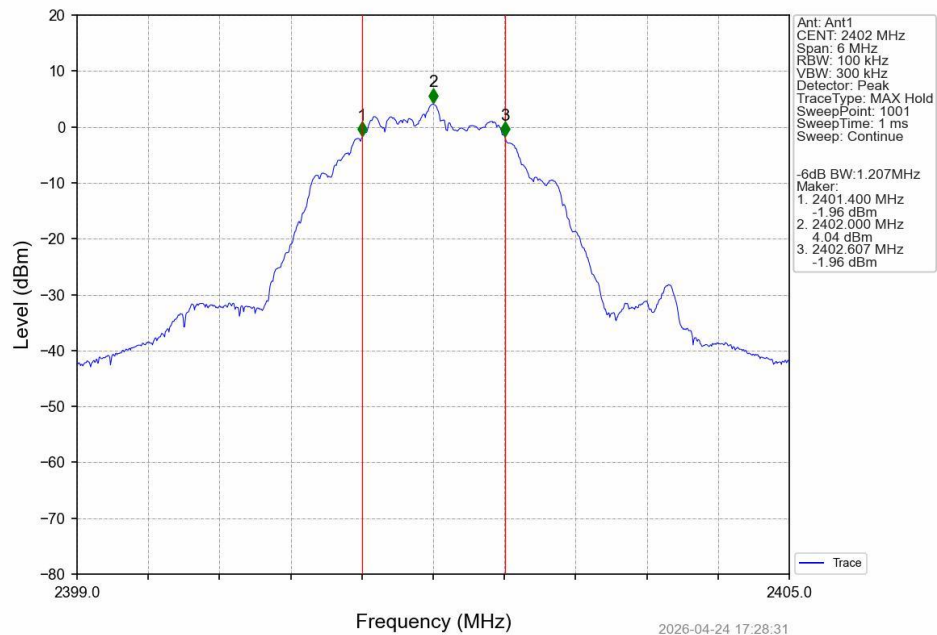




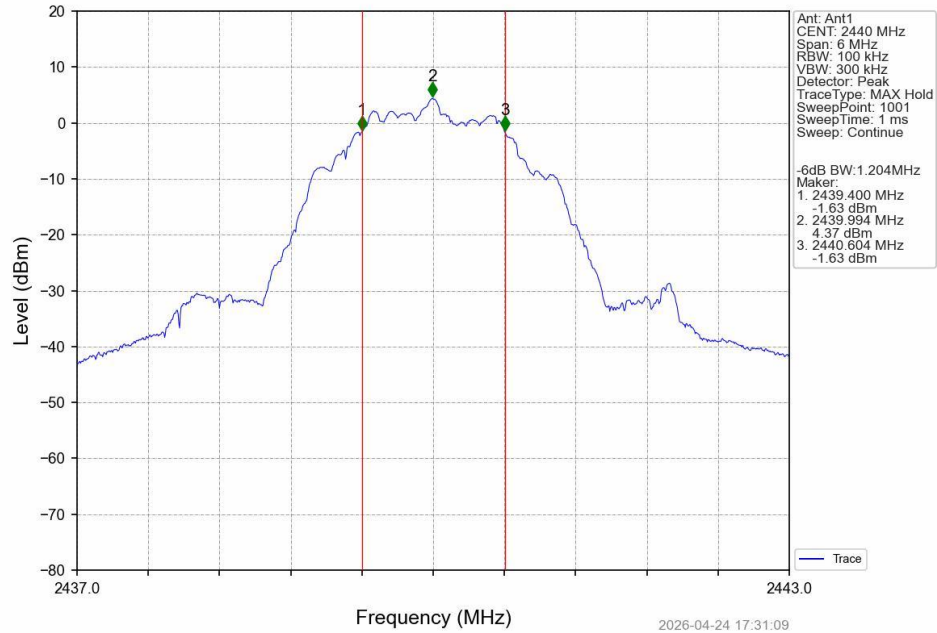
1M_HCH_2480MHz_Ant1_NTNV



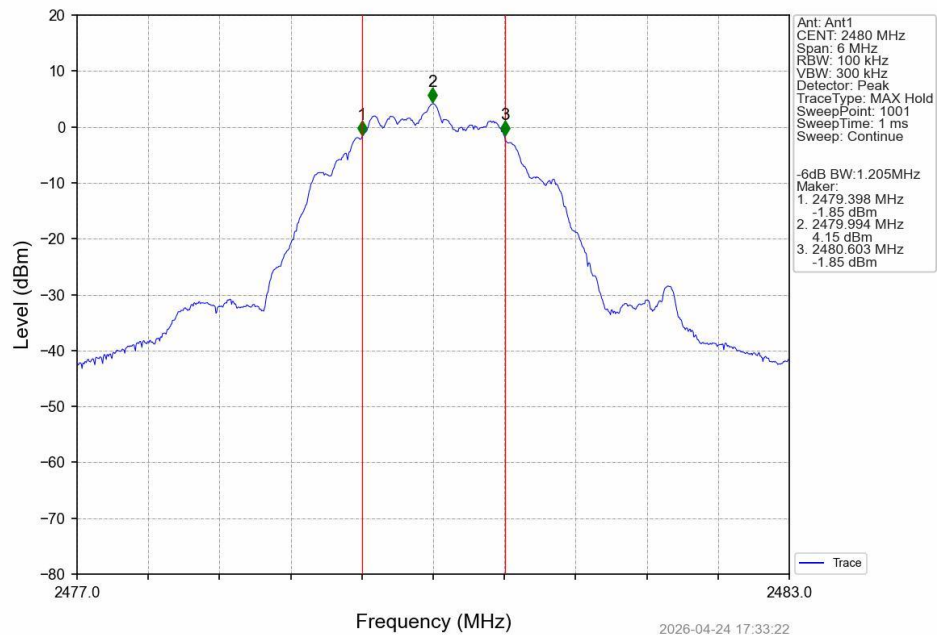
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





3. Maximum Conducted Output Power

3.1 Test Result

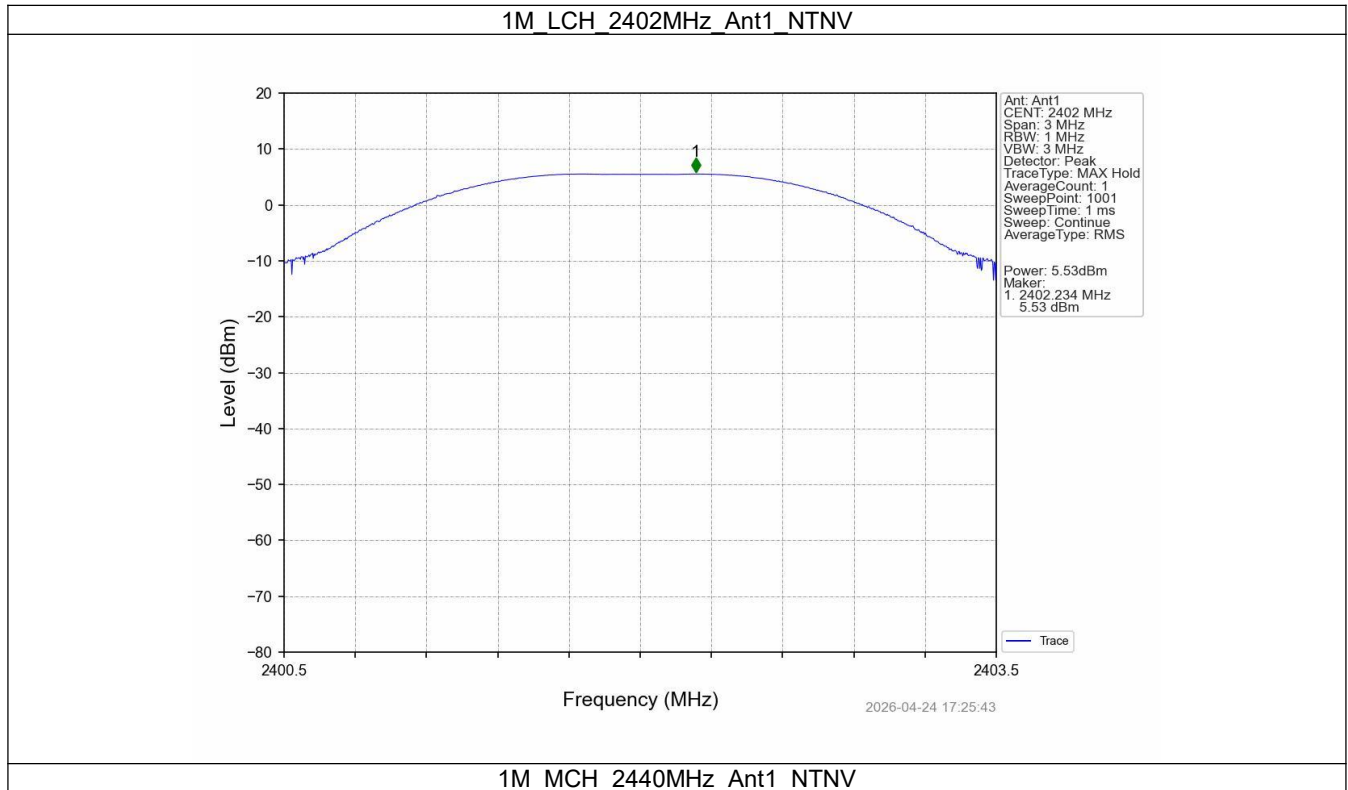
3.1.1 Power

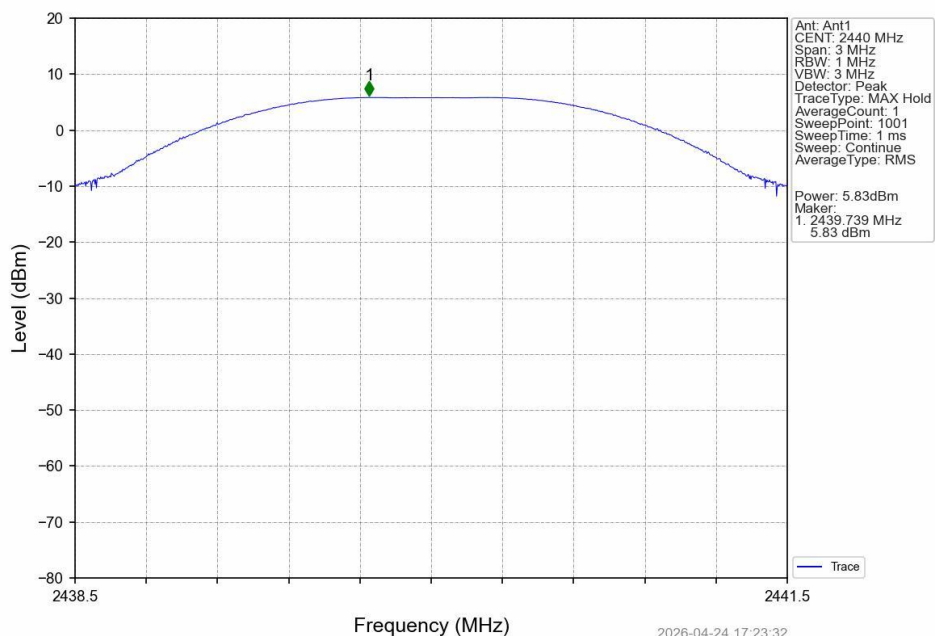
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	5.53	<=30	Pass
		2440	5.83	<=30	Pass
		2480	5.62	<=30	Pass
2M	SISO	2402	5.54	<=30	Pass
		2440	5.87	<=30	Pass
		2480	5.64	<=30	Pass
Note1: Antenna Gain: Ant1: 2.68dBi;					



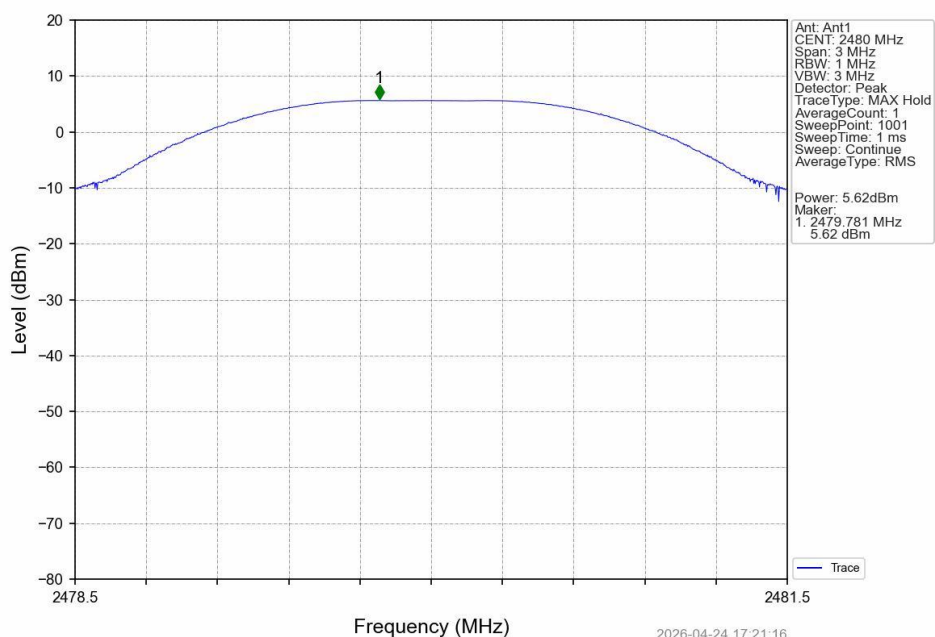
3.2 Test Graph

3.2.1 Power

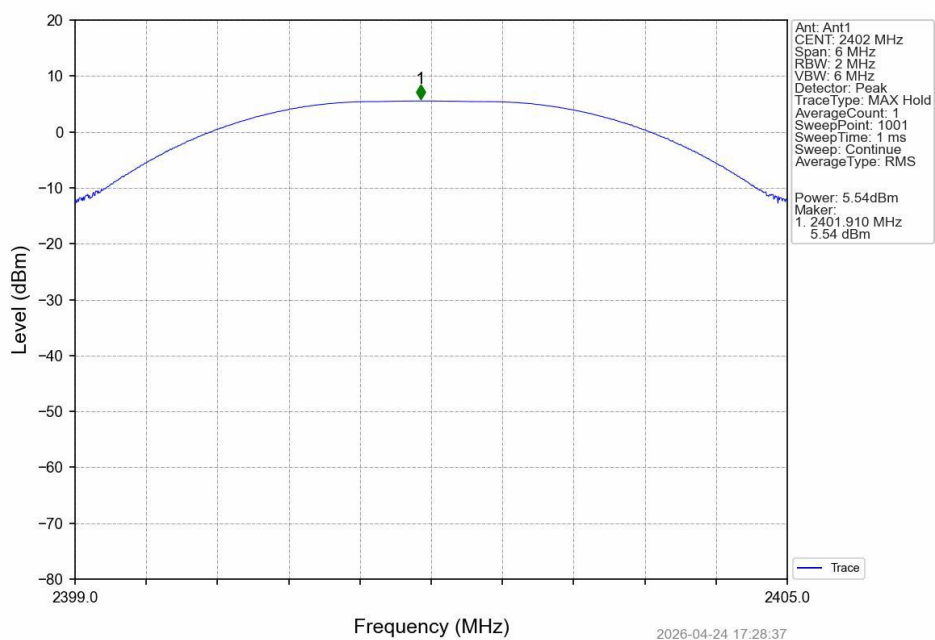




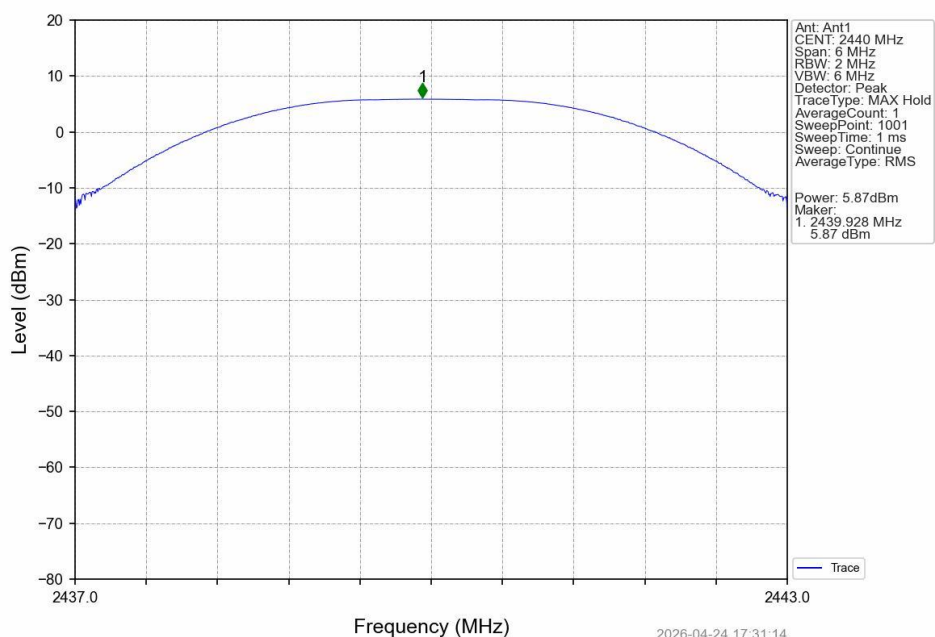
1M_HCH_2480MHz_Ant1_NTNV



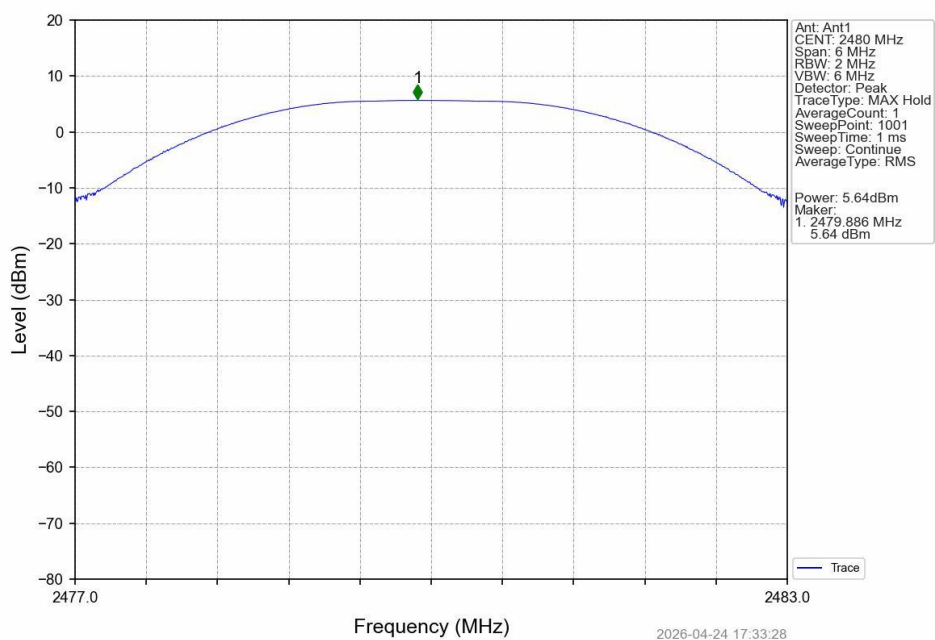
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





4. Maximum Power Spectral Density

4.1 Test Result

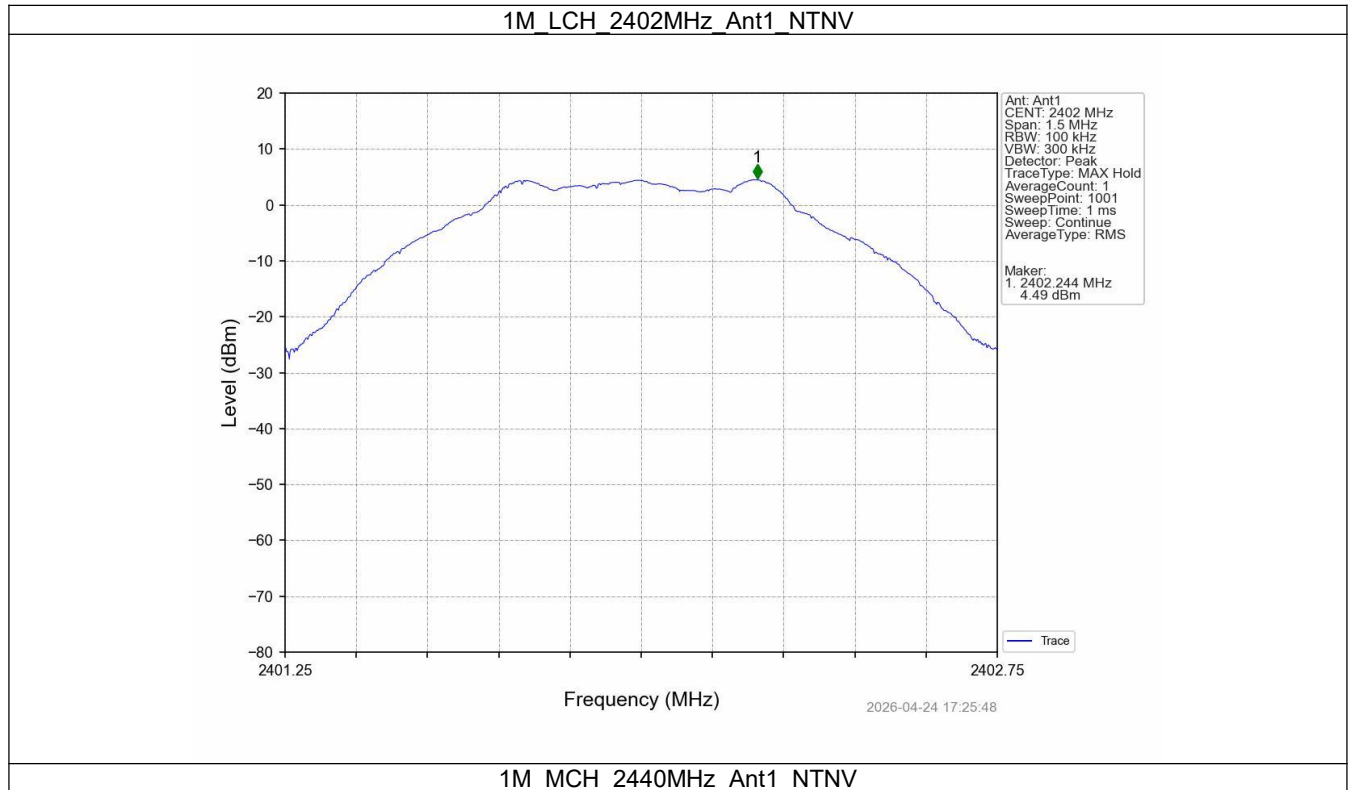
4.1.1 PSD

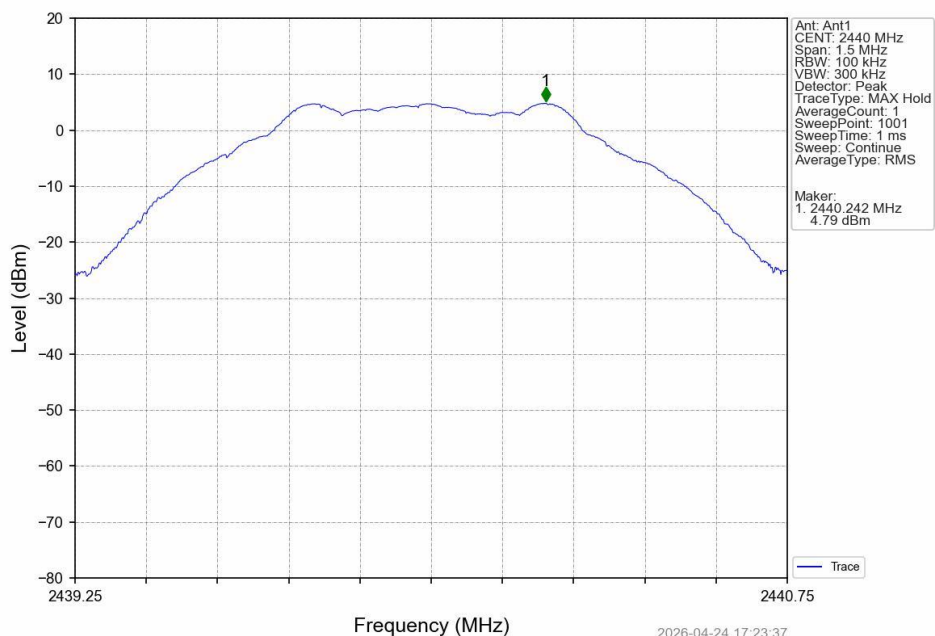
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	4.49	<=8	Pass
		2440	4.79	<=8	Pass
		2480	4.59	<=8	Pass
2M	SISO	2402	4.07	<=8	Pass
		2440	4.36	<=8	Pass
		2480	4.17	<=8	Pass

Note1: Antenna Gain: Ant1: 2.68dBi;

4.2 Test Graph

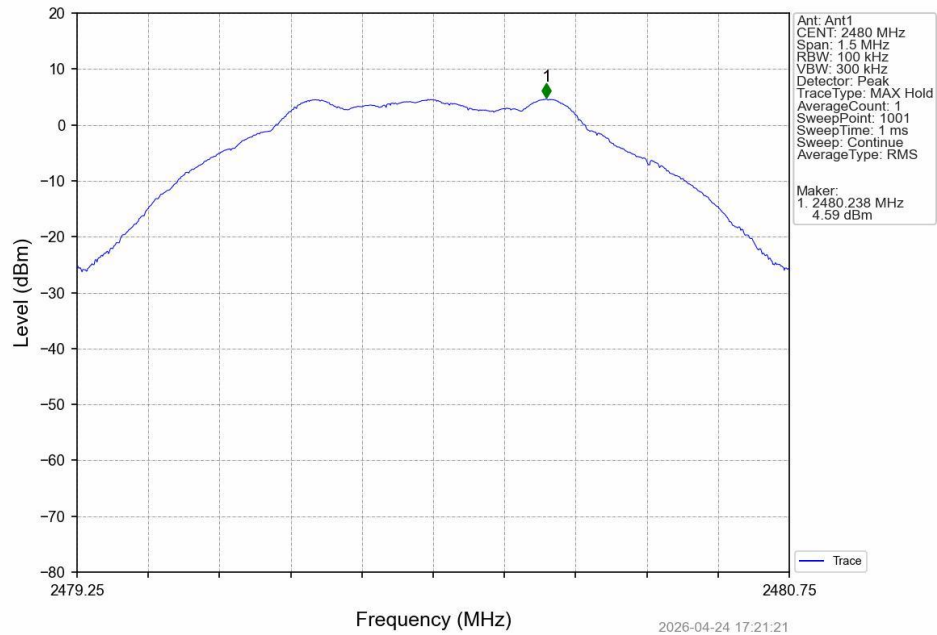
4.2.1 PSD



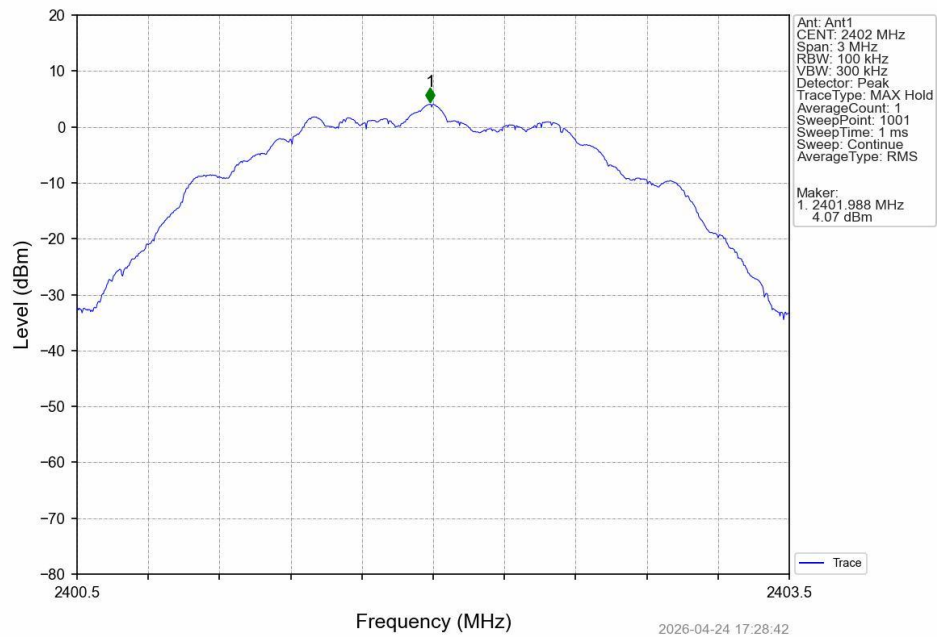




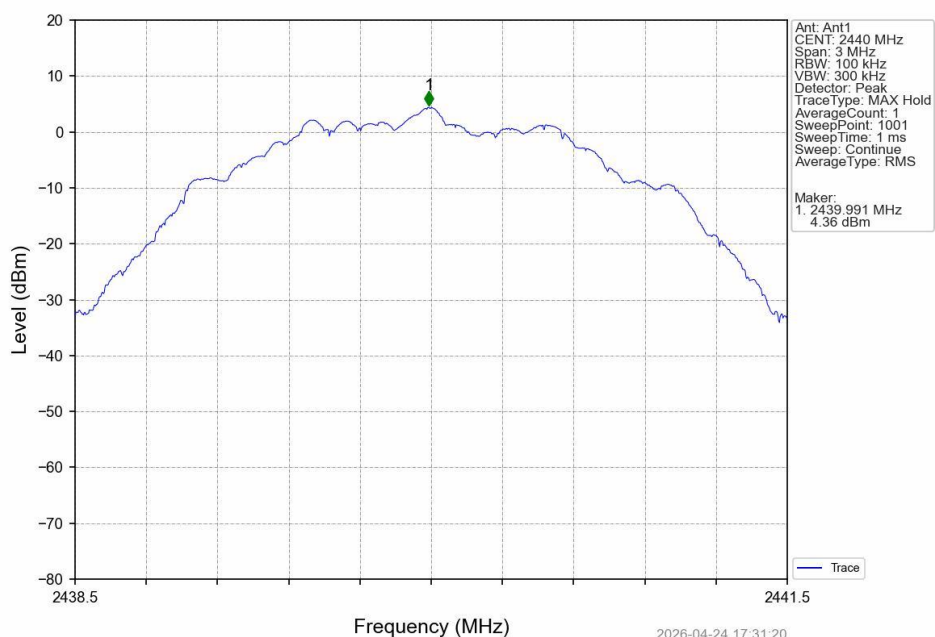
1M_HCH_2480MHz_Ant1_NTNV



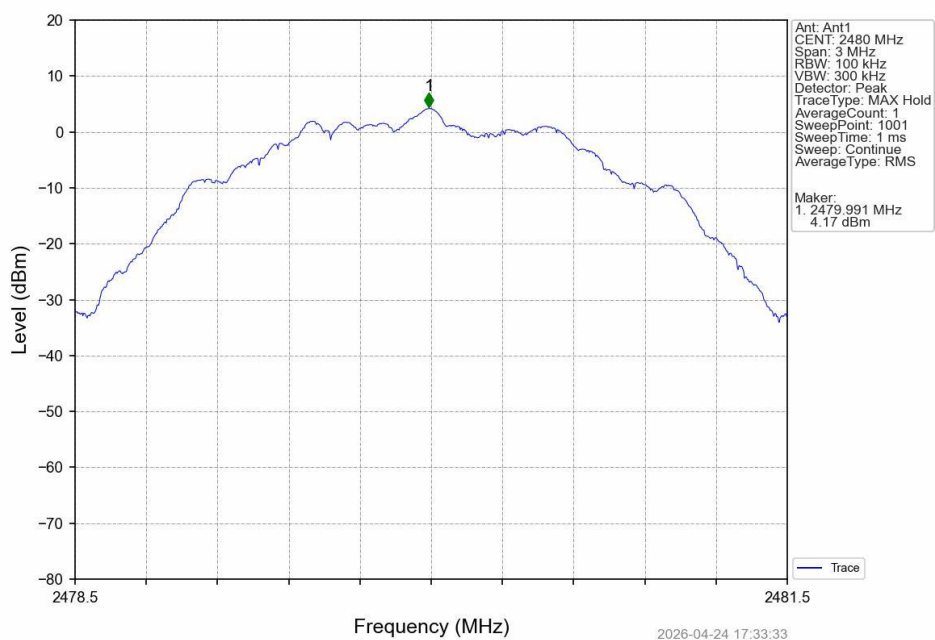
2M_LCH_2402MHz_Ant1_NTNV



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	4.50
		2440	1	4.81
		2480	1	4.59
2M	SISO	2402	1	4.13
		2440	1	4.42
		2480	1	4.19

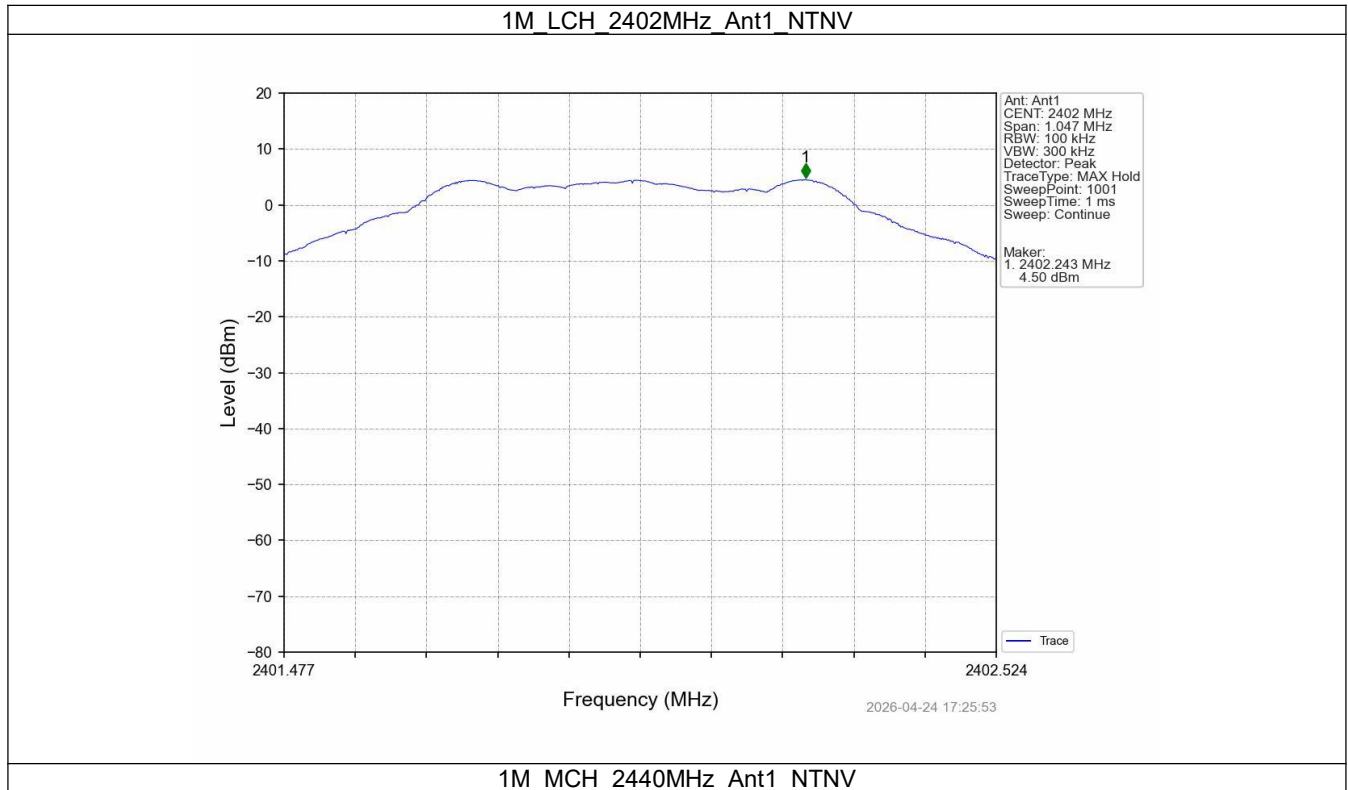
5.1.2 CSE

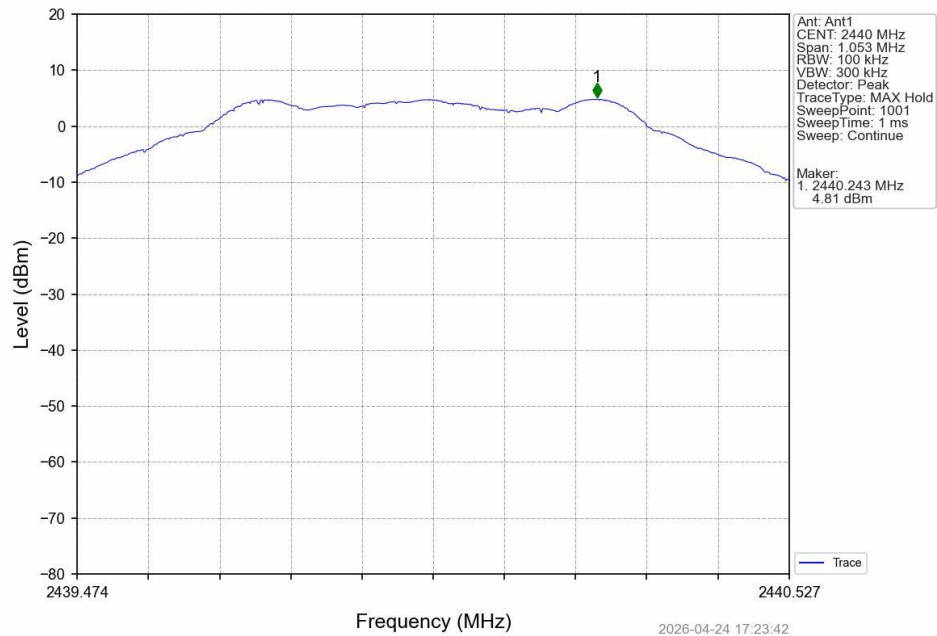
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	4.81	-15.19	Pass
		2440	1	4.81	-15.19	Pass
		2480	1	4.81	-15.19	Pass
2M	SISO	2402	1	4.42	-15.58	Pass
		2440	1	4.42	-15.58	Pass
		2480	1	4.42	-15.58	Pass



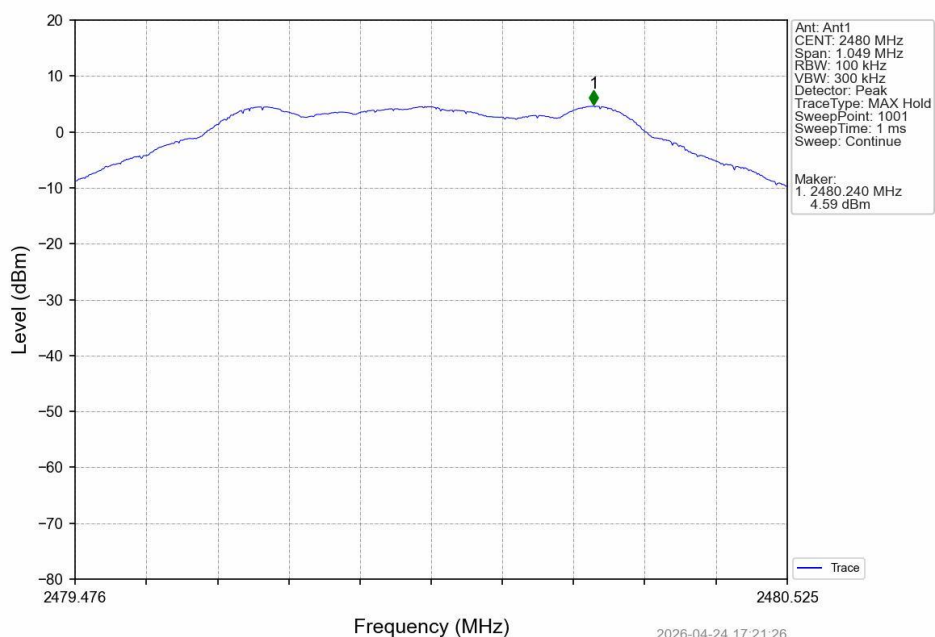
5.2 Test Graph

5.2.1 Ref

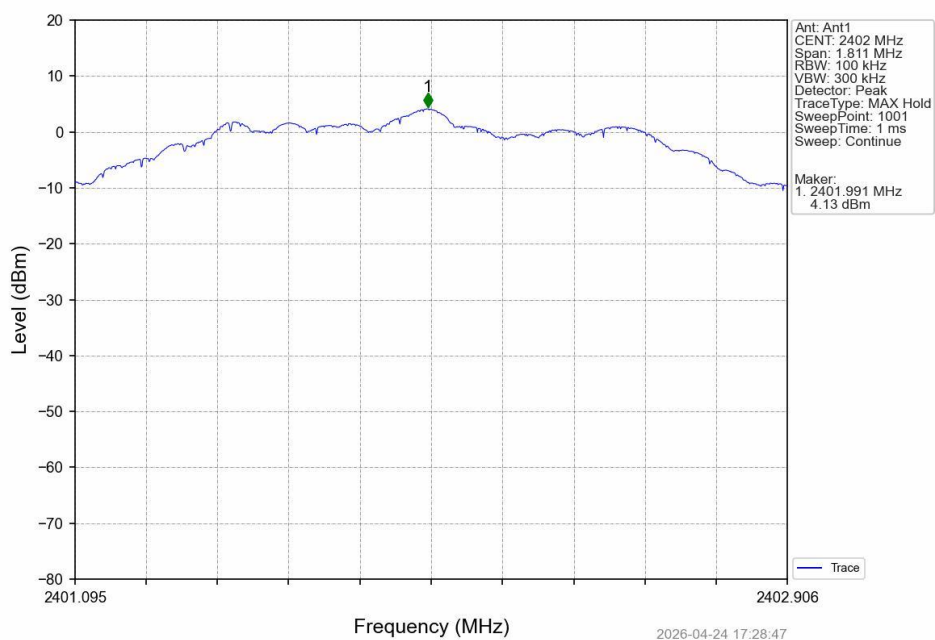




1M_HCH_2480MHz_Ant1_NTNV

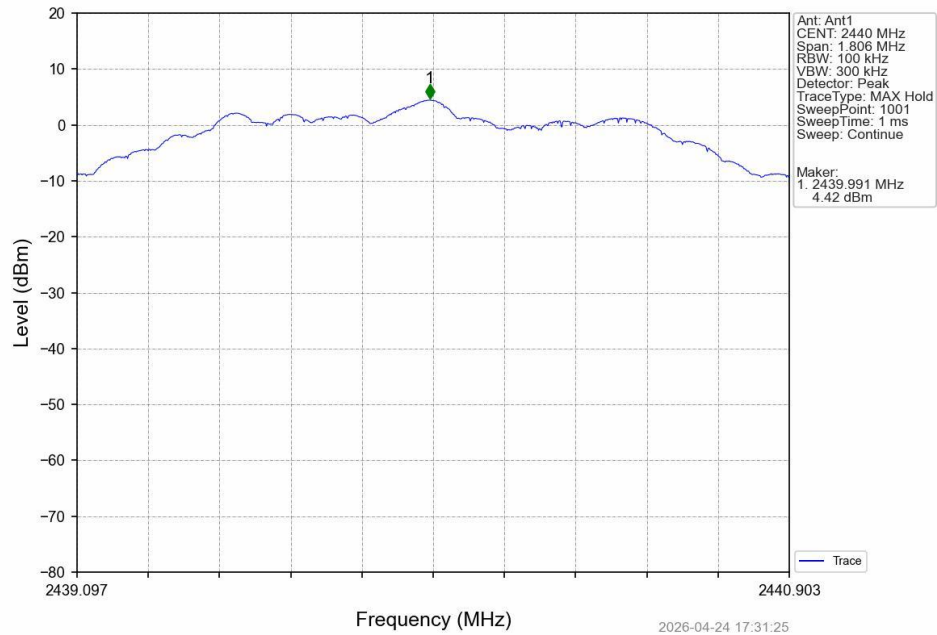


2M_LCH_2402MHz_Ant1_NTNV

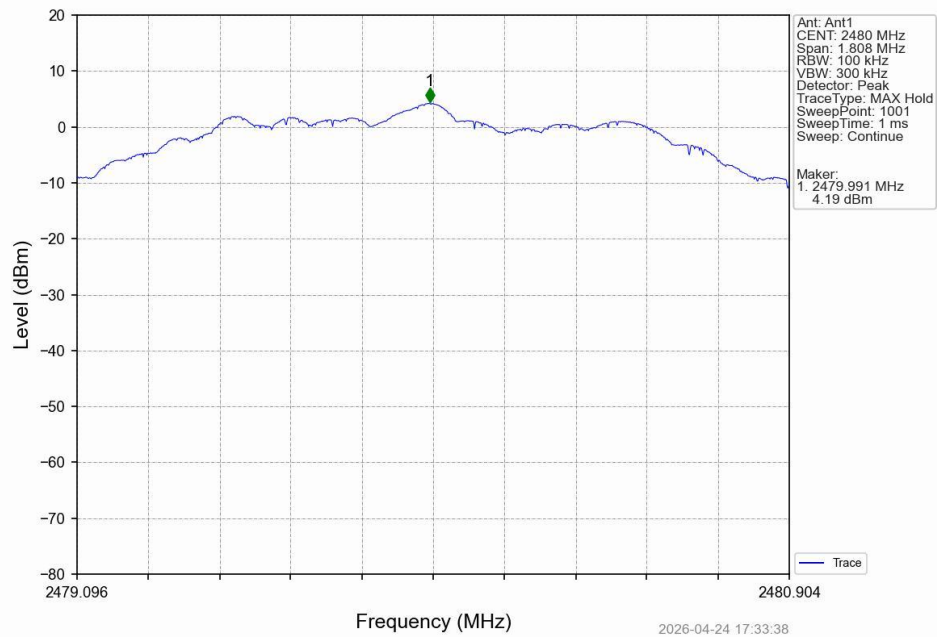




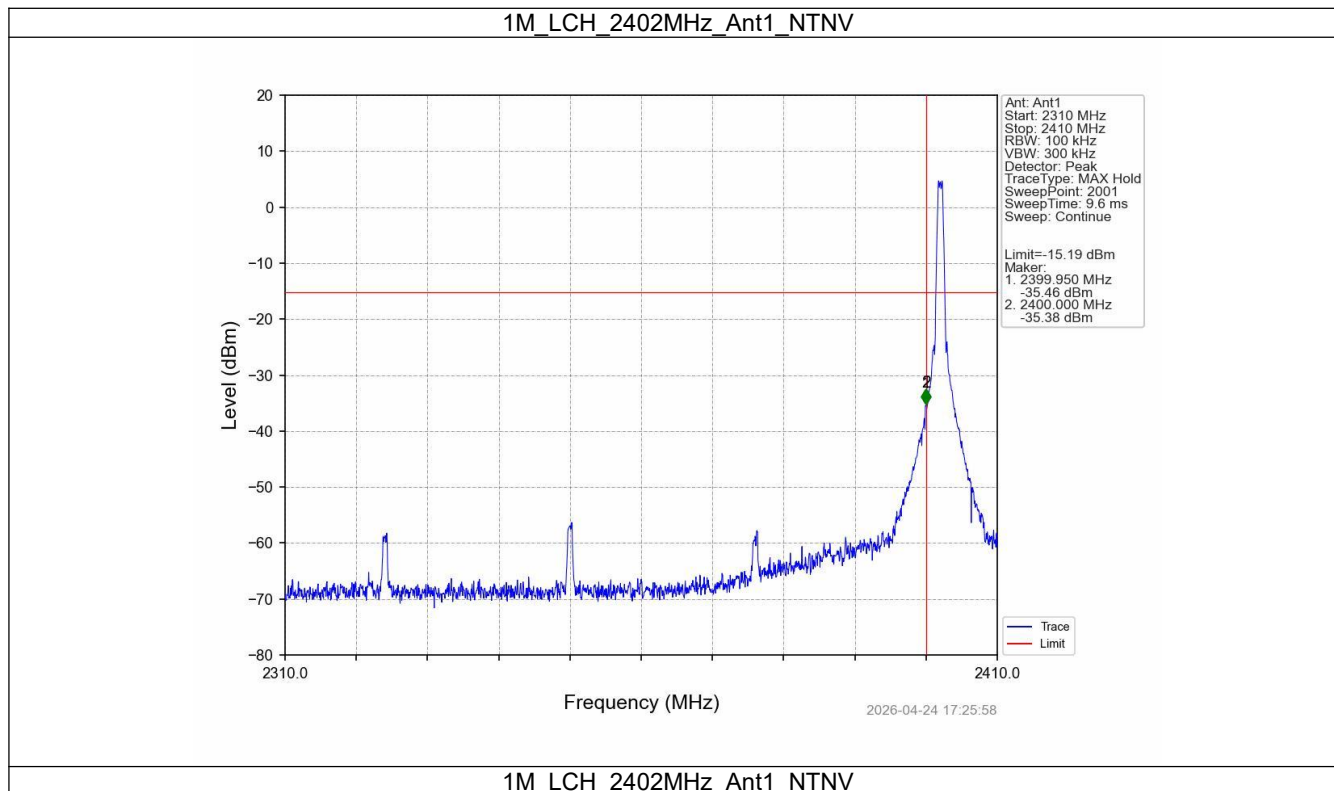
2M_MCH_2440MHz_Ant1_NTNV



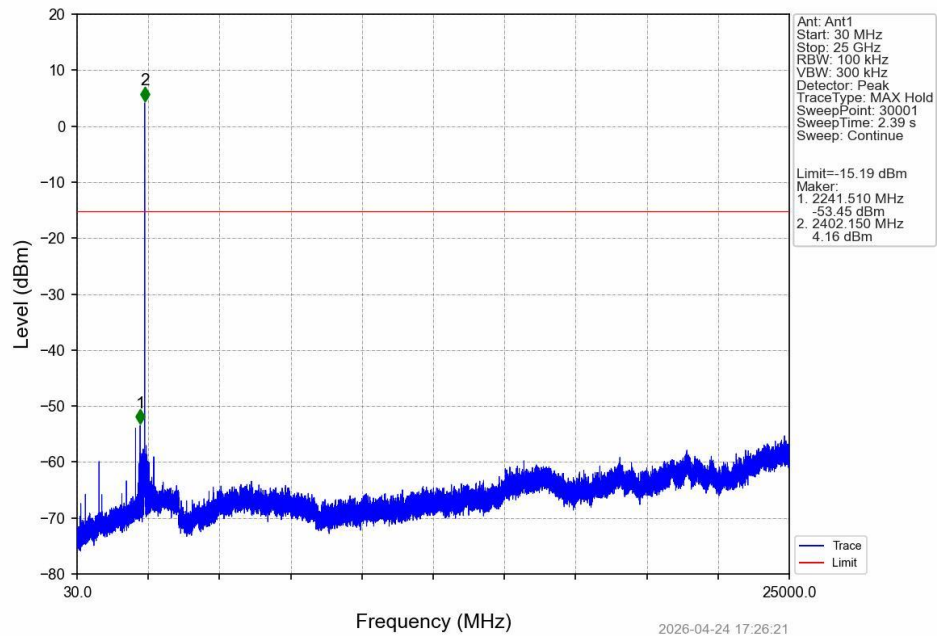
2M_HCH_2480MHz_Ant1_NTNV



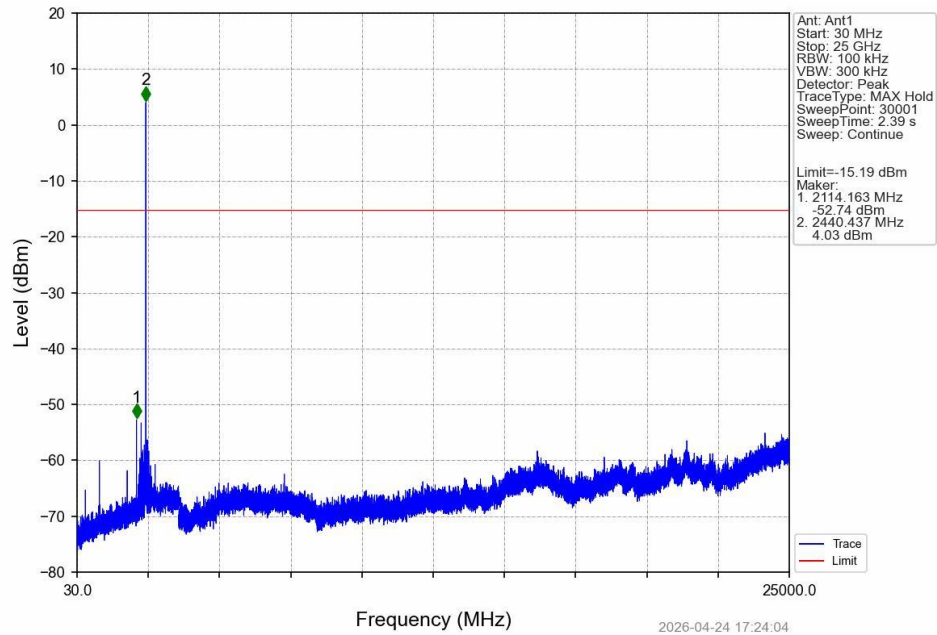
5.2.2 CSE



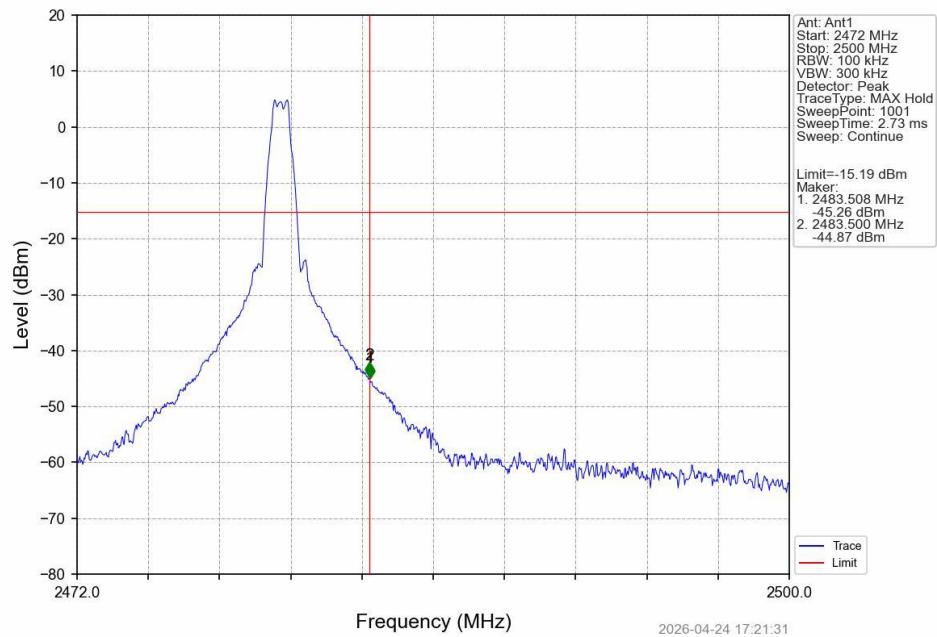
1M_LCH_2402MHz_Ant1_NTNV



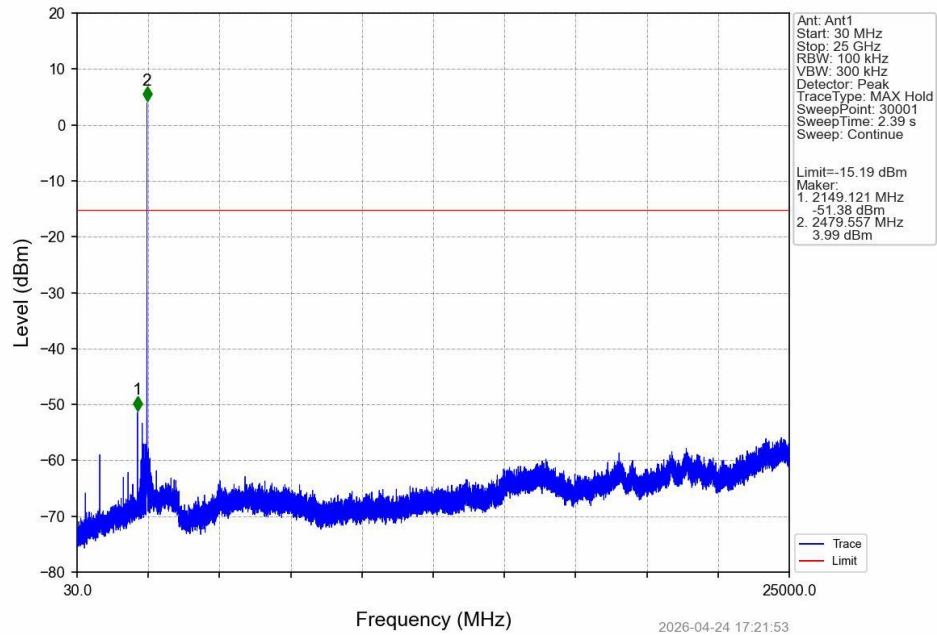
1M_MCH_2440MHz_Ant1_NTNV



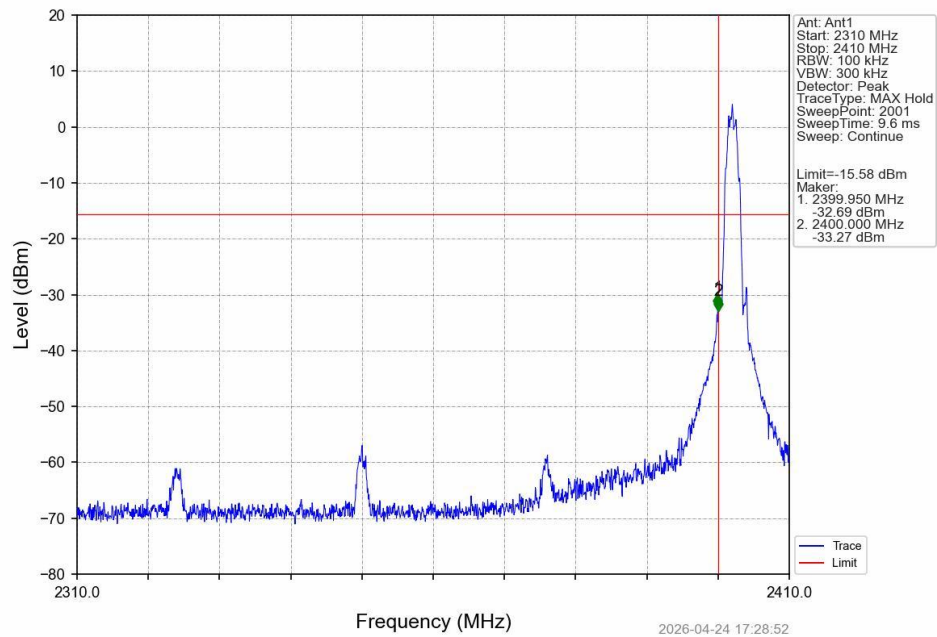
1M_HCH_2480MHz_Ant1_NTNV



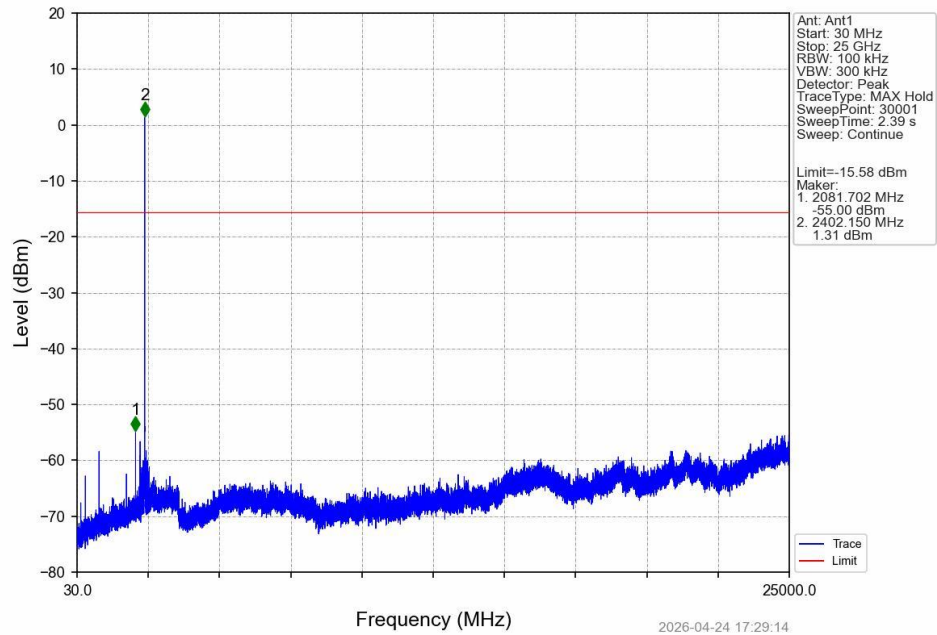
1M_HCH_2480MHz_Ant1_NTNV



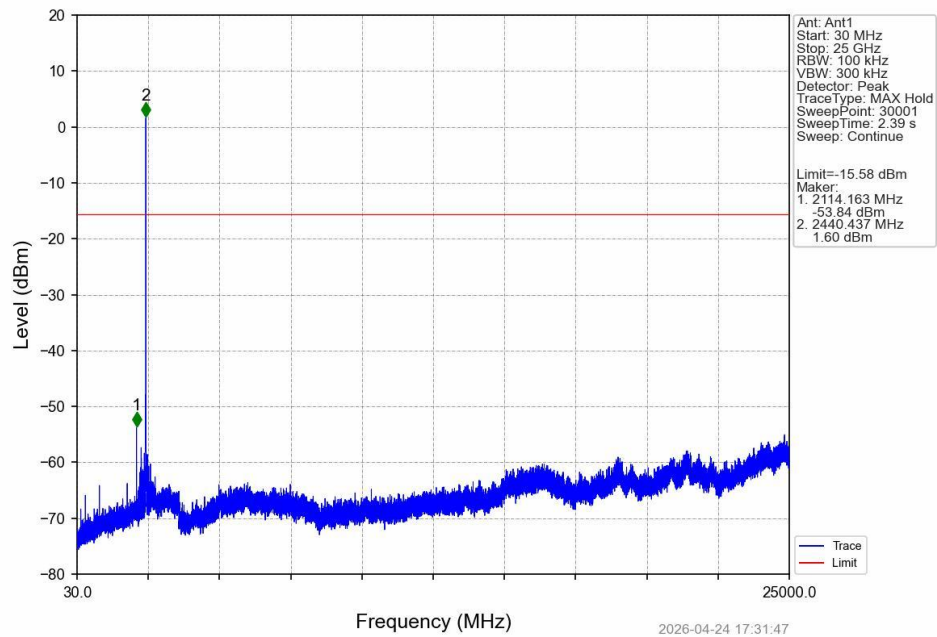
2M_LCH_2402MHz_Ant1_NTNV



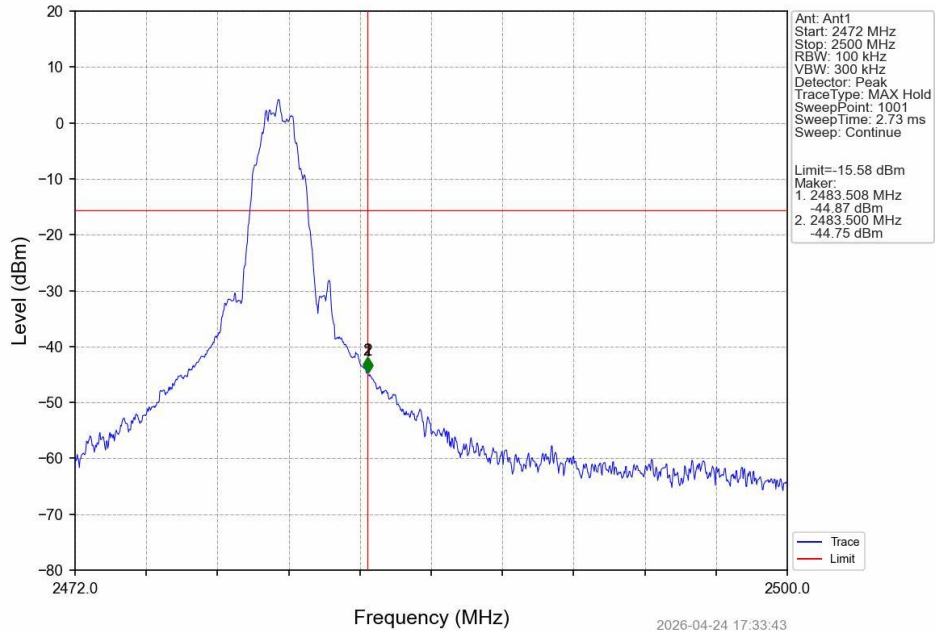
2M_LCH_2402MHz_Ant1_NTNV



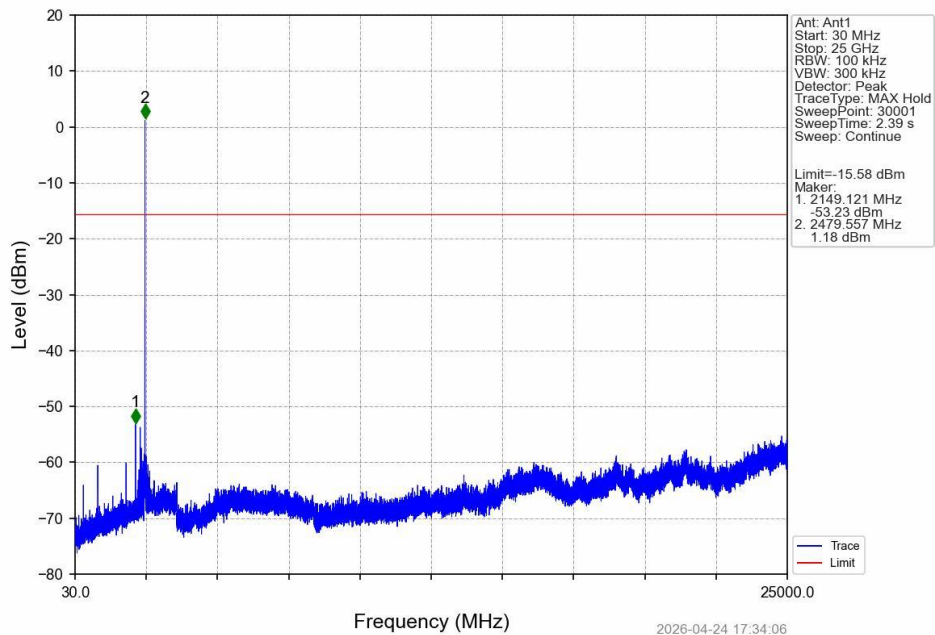
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





6. Unwanted Emissions In Restricted Frequency Bands

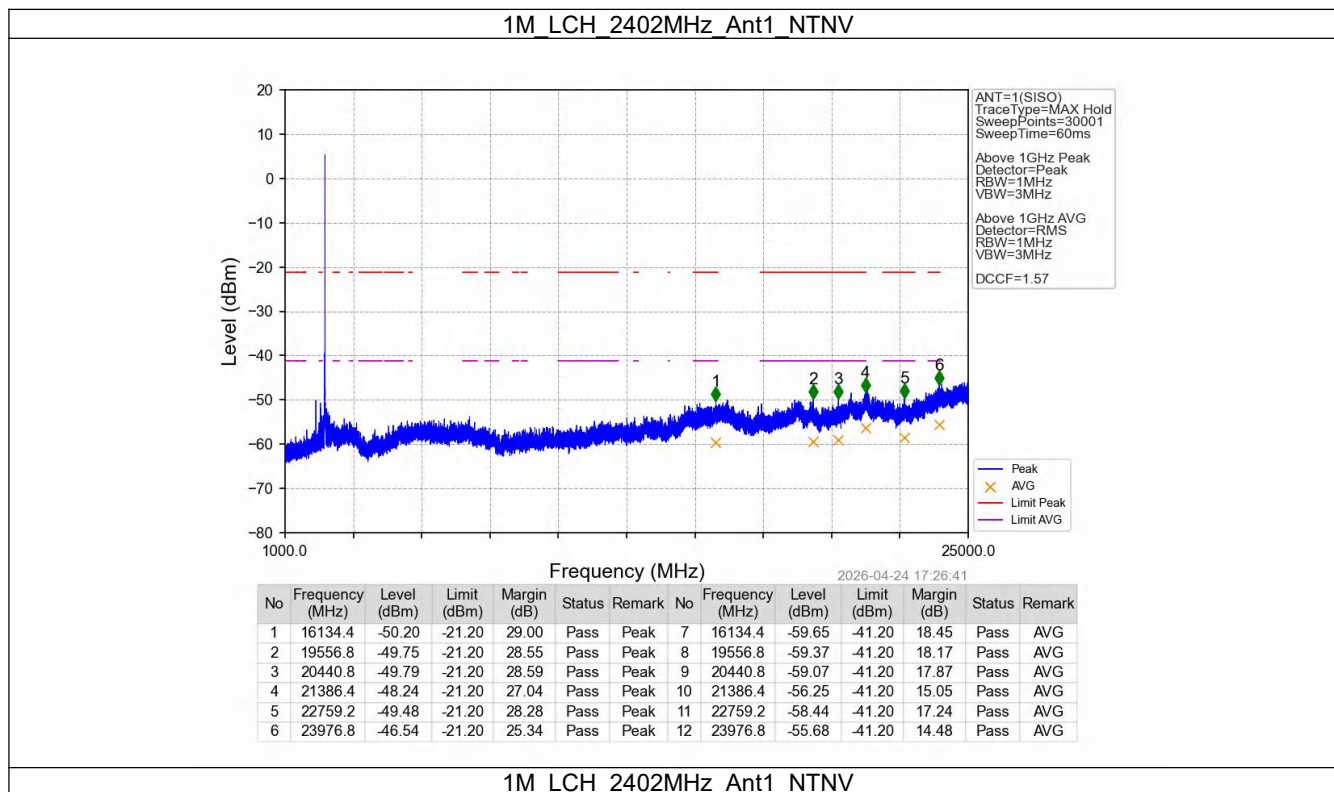
6.1 Test Result

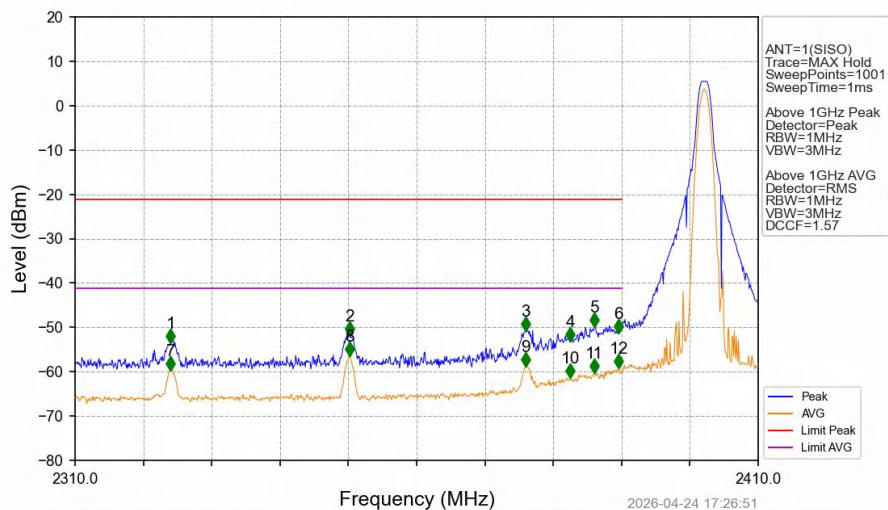
6.1.1 RSE

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



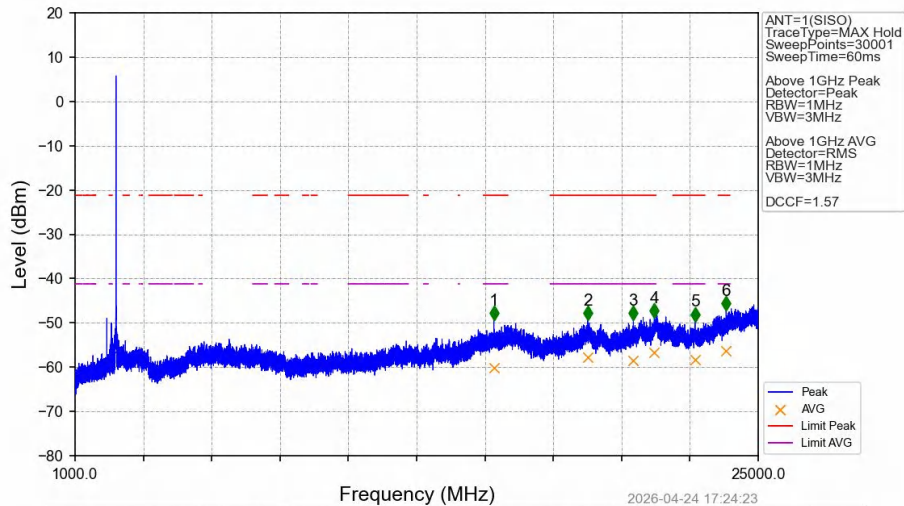


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No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2324.000	-53.47	-21.20	32.27	Pass	Peak	7	2324.000	-59.65	-41.20	18.45	Pass	AVG
2	2350.200	-51.87	-21.20	30.67	Pass	Peak	8	2350.200	-56.46	-41.20	15.26	Pass	AVG
3	2375.900	-50.82	-21.20	29.62	Pass	Peak	9	2375.900	-58.77	-41.20	17.57	Pass	AVG
4	2382.500	-53.14	-21.20	31.94	Pass	Peak	10	2382.500	-61.37	-41.20	20.17	Pass	AVG
5	2386.000	-49.87	-21.20	28.67	Pass	Peak	11	2386.000	-60.23	-41.20	19.03	Pass	AVG
6	2389.600	-51.27	-21.20	30.07	Pass	Peak	12	2389.600	-59.16	-41.20	17.96	Pass	AVG

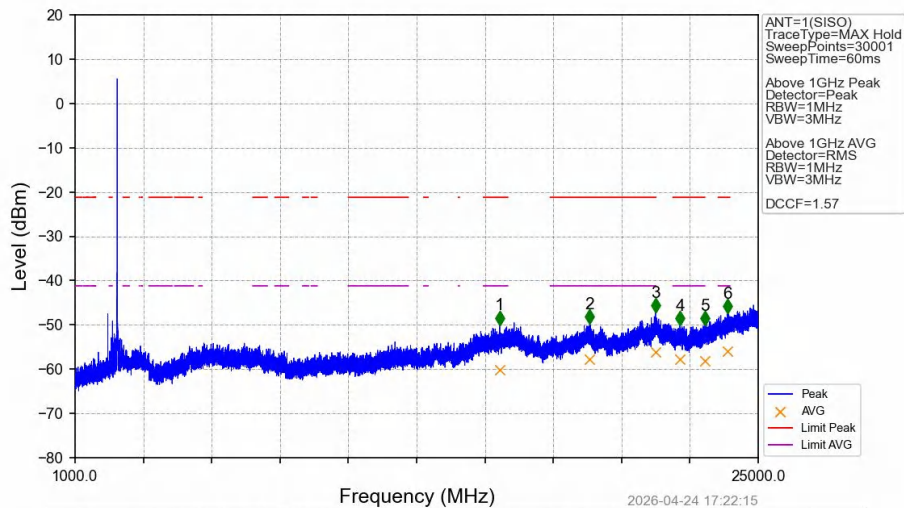


1M_MCH_2440MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	15713.6	-49.37	-21.20	28.17	Pass	Peak	7	15713.6	-60.22	-41.20	19.02	Pass	AVG
2	19010.4	-49.30	-21.20	28.10	Pass	Peak	8	19010.4	-57.77	-41.20	16.57	Pass	AVG
3	20614.4	-49.36	-21.20	28.16	Pass	Peak	9	20614.4	-58.53	-41.20	17.33	Pass	AVG
4	21348.8	-48.79	-21.20	27.59	Pass	Peak	10	21348.8	-56.63	-41.20	15.43	Pass	AVG
5	22784	-49.61	-21.20	28.41	Pass	Peak	11	22784	-58.34	-41.20	17.14	Pass	AVG
6	23872.8	-47.18	-21.20	25.98	Pass	Peak	12	23872.8	-56.28	-41.20	15.08	Pass	AVG

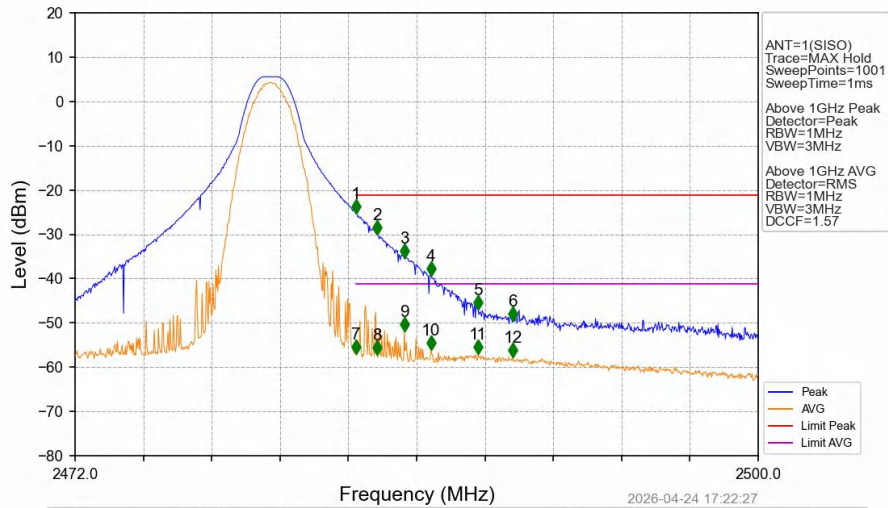
1M_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	15917.6	-49.98	-21.20	28.78	Pass	Peak	7	15917.6	-60.10	-41.20	18.90	Pass	AVG
2	19084	-49.78	-21.20	28.58	Pass	Peak	8	19084	-57.71	-41.20	16.51	Pass	AVG
3	21392.8	-47.23	-21.20	26.03	Pass	Peak	9	21392.8	-56.19	-41.20	14.99	Pass	AVG
4	22250.4	-50.05	-21.20	28.85	Pass	Peak	10	22250.4	-57.82	-41.20	16.62	Pass	AVG
5	23116.8	-50.06	-21.20	28.86	Pass	Peak	11	23116.8	-58.06	-41.20	16.86	Pass	AVG
6	23920.8	-47.33	-21.20	26.13	Pass	Peak	12	23920.8	-55.91	-41.20	14.71	Pass	AVG

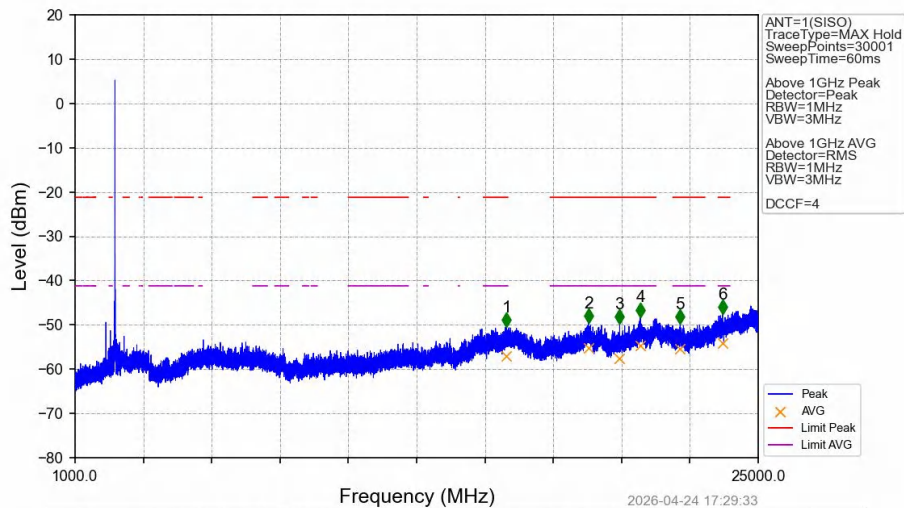


1M_HCH_2480MHz_Ant1_NTNV



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	-25.29	-21.20	4.09	Pass	Peak	7	2483.508	-56.97	-41.20	15.77	Pass	AVG
2	2484.376	-30.11	-21.20	8.91	Pass	Peak	8	2484.376	-57.13	-41.20	15.93	Pass	AVG
3	2485.496	-35.39	-21.20	14.19	Pass	Peak	9	2485.496	-51.86	-41.20	10.66	Pass	AVG
4	2486.588	-39.39	-21.20	18.19	Pass	Peak	10	2486.588	-56.15	-41.20	14.95	Pass	AVG
5	2488.520	-47.04	-21.20	25.84	Pass	Peak	11	2488.520	-57.06	-41.20	15.86	Pass	AVG
6	2489.948	-49.45	-21.20	28.25	Pass	Peak	12	2489.948	-57.65	-41.20	16.45	Pass	AVG

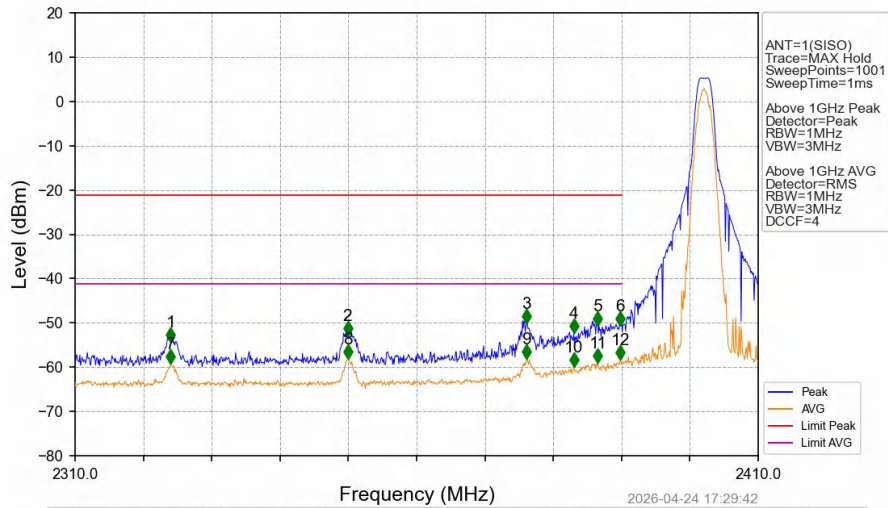
2M_LCH_2402MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	16159.2	-50.37	-21.20	29.17	Pass	Peak	7	16159.2	-57.10	-41.20	15.90	Pass	AVG
2	19036	-49.46	-21.20	28.26	Pass	Peak	8	19036	-55.30	-41.20	14.10	Pass	AVG
3	20132.8	-49.77	-21.20	28.57	Pass	Peak	9	20132.8	-57.58	-41.20	16.38	Pass	AVG
4	20860	-48.16	-21.20	26.96	Pass	Peak	10	20860	-54.61	-41.20	13.41	Pass	AVG
5	22256.8	-49.68	-21.20	28.48	Pass	Peak	11	22256.8	-55.37	-41.20	14.17	Pass	AVG
6	23748	-47.53	-21.20	26.33	Pass	Peak	12	23748	-54.06	-41.20	12.86	Pass	AVG

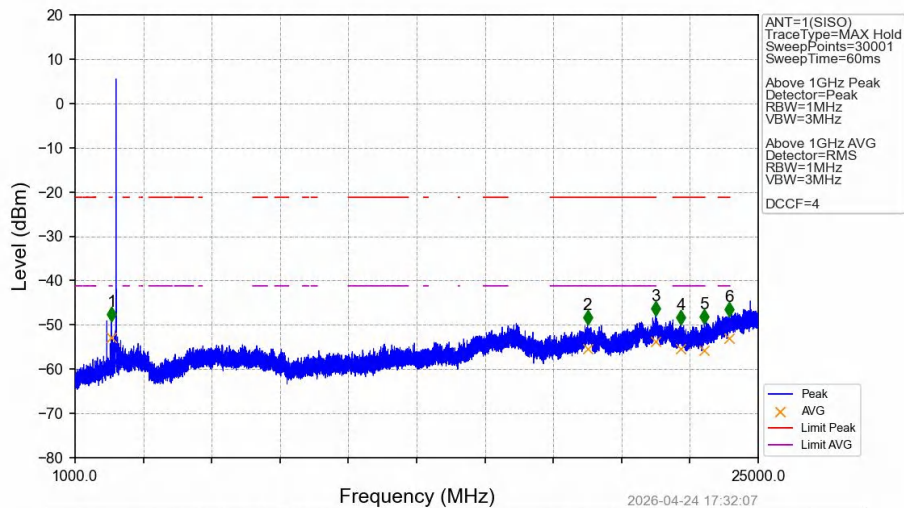


2M_LCH_2402MHz_Ant1_NTNV



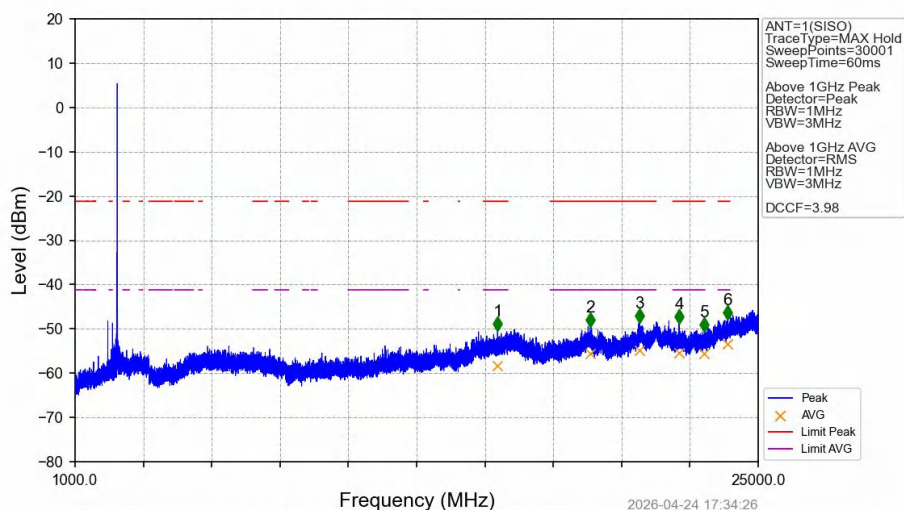
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2324.000	-54.33	-21.20	33.13	Pass	Peak	7	2324.000	-59.17	-41.20	17.97	Pass	AVG
2	2349.900	-52.87	-21.20	31.67	Pass	Peak	8	2349.900	-58.13	-41.20	16.93	Pass	AVG
3	2376.100	-50.04	-21.20	28.84	Pass	Peak	9	2376.100	-58.01	-41.20	16.81	Pass	AVG
4	2383.000	-52.34	-21.20	31.14	Pass	Peak	10	2383.000	-59.99	-41.20	18.79	Pass	AVG
5	2386.500	-50.54	-21.20	29.34	Pass	Peak	11	2386.500	-59.05	-41.20	17.85	Pass	AVG
6	2389.800	-50.64	-21.20	29.44	Pass	Peak	12	2389.800	-58.33	-41.20	17.13	Pass	AVG

2M_MCH_2440MHz_Ant1_NTNV



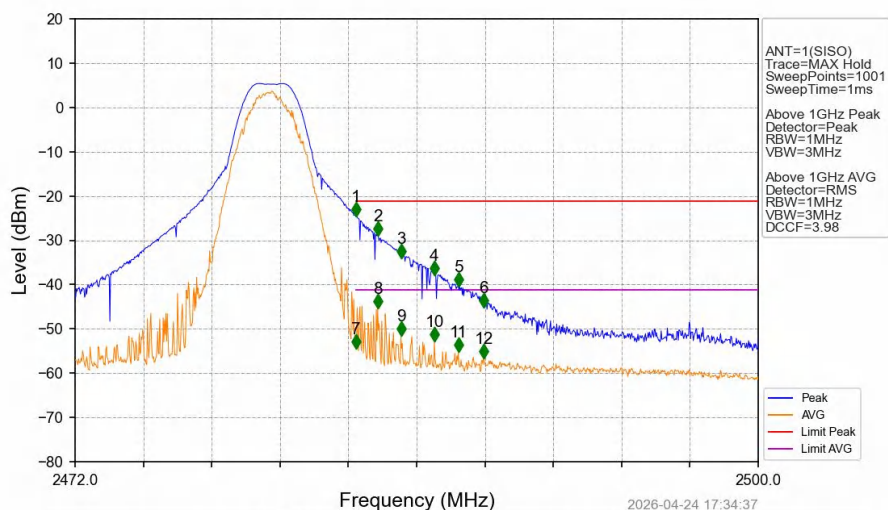
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2278.4	-49.18	-21.20	27.98	Pass	Peak	7	2278.4	-52.84	-41.20	11.64	Pass	AVG
2	19004	-49.92	-21.20	28.72	Pass	Peak	8	19004	-55.45	-41.20	14.25	Pass	AVG
3	21390.4	-47.95	-21.20	26.75	Pass	Peak	9	21390.4	-53.74	-41.20	12.54	Pass	AVG
4	22280	-49.84	-21.20	28.64	Pass	Peak	10	22280	-55.46	-41.20	14.26	Pass	AVG
5	23107.2	-49.64	-21.20	28.44	Pass	Peak	11	23107.2	-55.70	-41.20	14.50	Pass	AVG
6	23987.2	-48.12	-21.20	26.92	Pass	Peak	12	23987.2	-53.11	-41.20	11.91	Pass	AVG

2M_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	15843.2	-50.37	-21.20	29.17	Pass	Peak	7	15843.2	-58.37	-41.20	17.17	Pass	AVG
2	19092	-49.46	-21.20	28.26	Pass	Peak	8	19092	-55.68	-41.20	14.48	Pass	AVG
3	20833.6	-48.68	-21.20	27.48	Pass	Peak	9	20833.6	-54.94	-41.20	13.74	Pass	AVG
4	22222.4	-48.74	-21.20	27.54	Pass	Peak	10	22222.4	-55.43	-41.20	14.23	Pass	AVG
5	23106.4	-50.54	-21.20	29.34	Pass	Peak	11	23106.4	-55.55	-41.20	14.35	Pass	AVG
6	23926.4	-47.94	-21.20	26.74	Pass	Peak	12	23926.4	-53.36	-41.20	12.16	Pass	AVG

2M_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	-24.66	-21.20	3.46	Pass	Peak	7	2483.508	-54.52	-41.20	13.32	Pass	AVG
2	2484.404	-28.88	-21.20	7.68	Pass	Peak	8	2484.404	-45.41	-41.20	4.21	Pass	AVG
3	2485.356	-34.05	-21.20	12.85	Pass	Peak	9	2485.356	-51.60	-41.20	10.40	Pass	AVG
4	2486.728	-37.80	-21.20	16.60	Pass	Peak	10	2486.728	-52.86	-41.20	11.66	Pass	AVG
5	2487.708	-40.41	-21.20	19.21	Pass	Peak	11	2487.708	-55.19	-41.20	13.99	Pass	AVG
6	2488.744	-45.18	-21.20	23.98	Pass	Peak	12	2488.744	-56.69	-41.20	15.49	Pass	AVG