



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK260506003A02E0101

RF Test Report

For BTEK260506003A02E01

Project No.:	BTEK260506003A02E0101
Product Description:	19.6℃, 63%, 101.6kPa
Test Engineer:	Zora
Test Date:	2026-05-23



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Report No.: BTEK260506003A02E0101

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

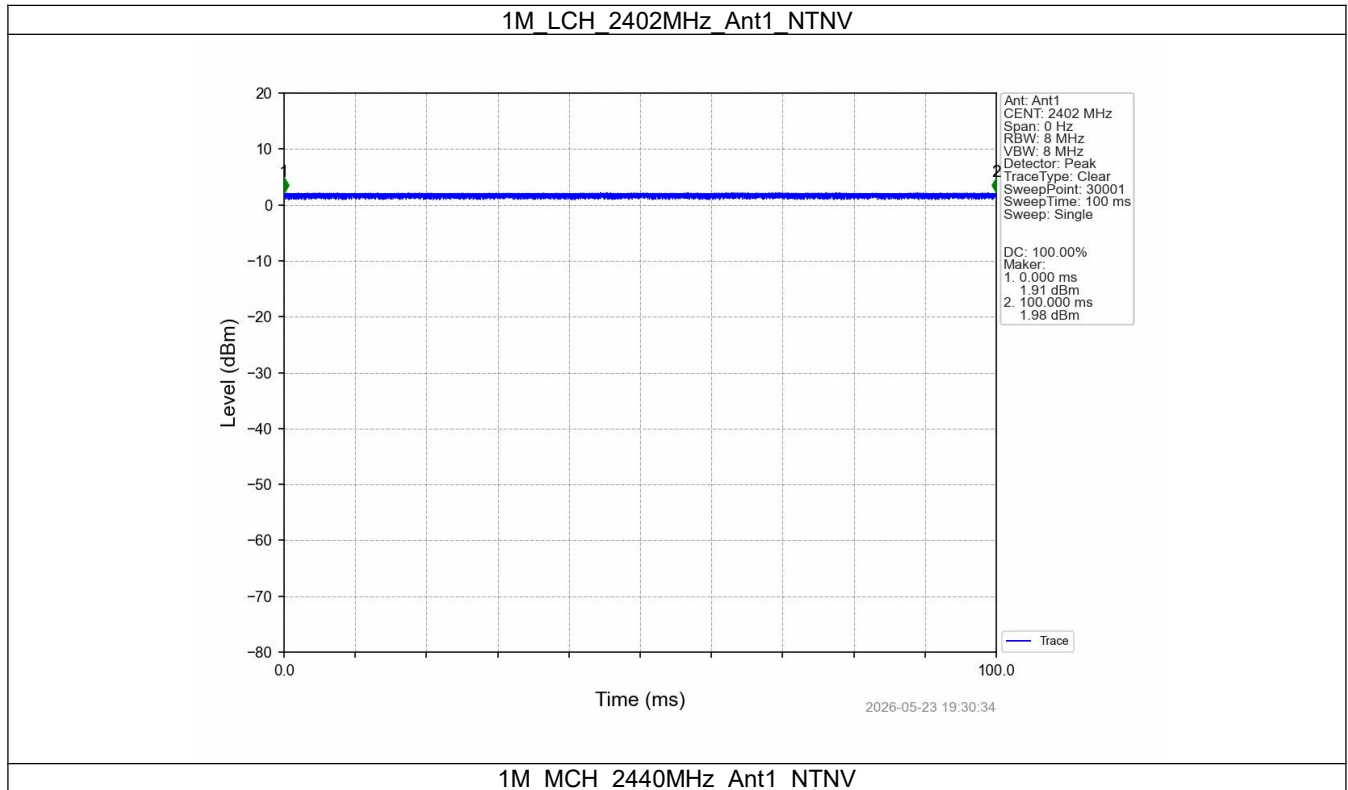
1.1.1 Ant1

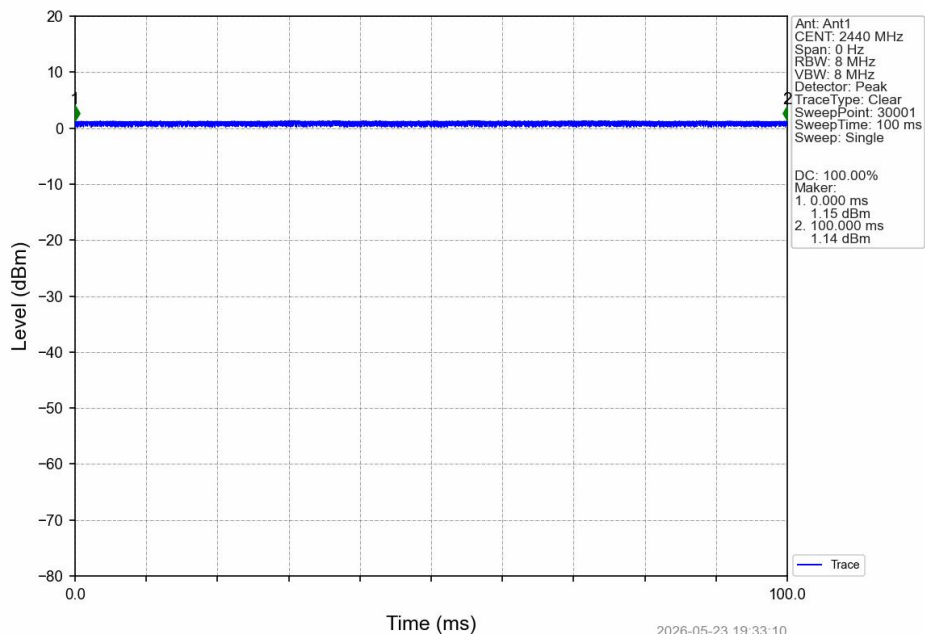
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00

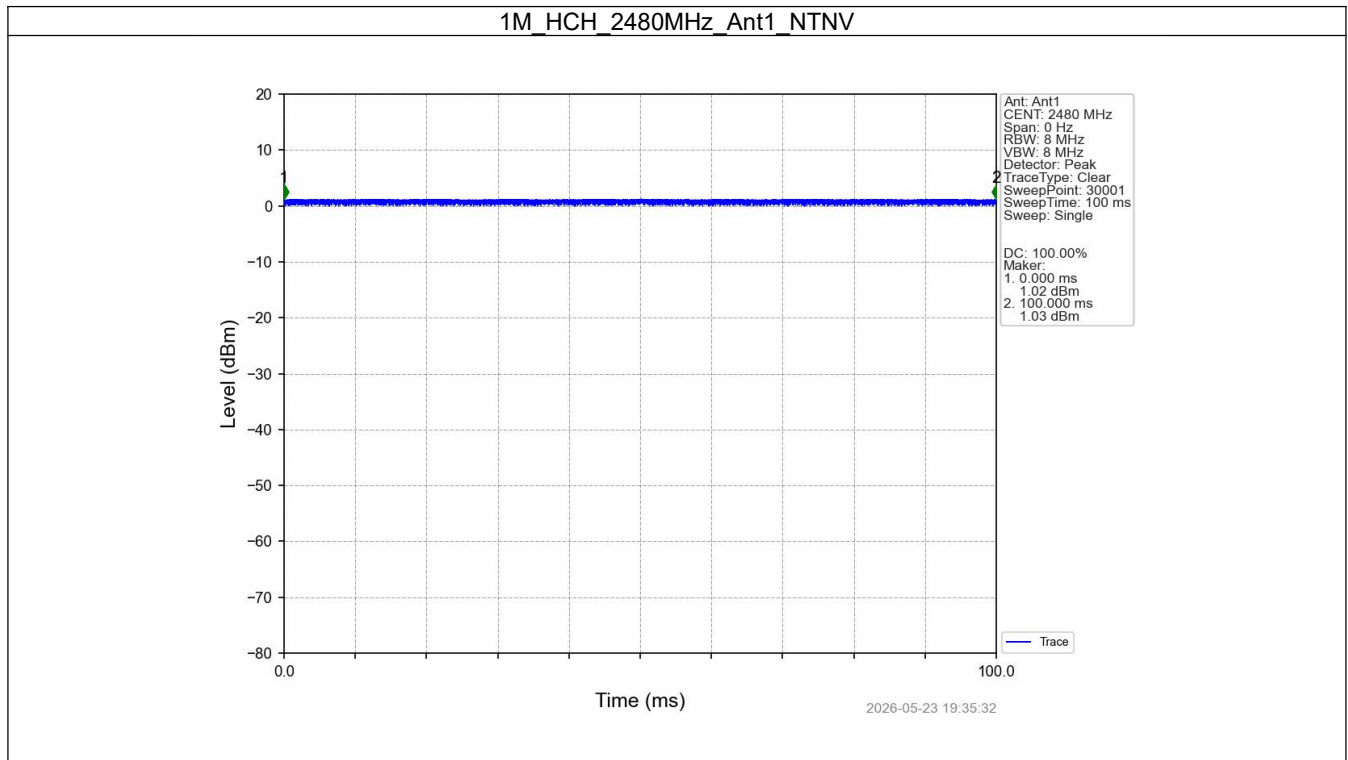


1.2 Test Graph

1.2.1 Ant1









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	1.042	/	Pass
		2440	1	1.042	/	Pass
		2480	1	1.042	/	Pass

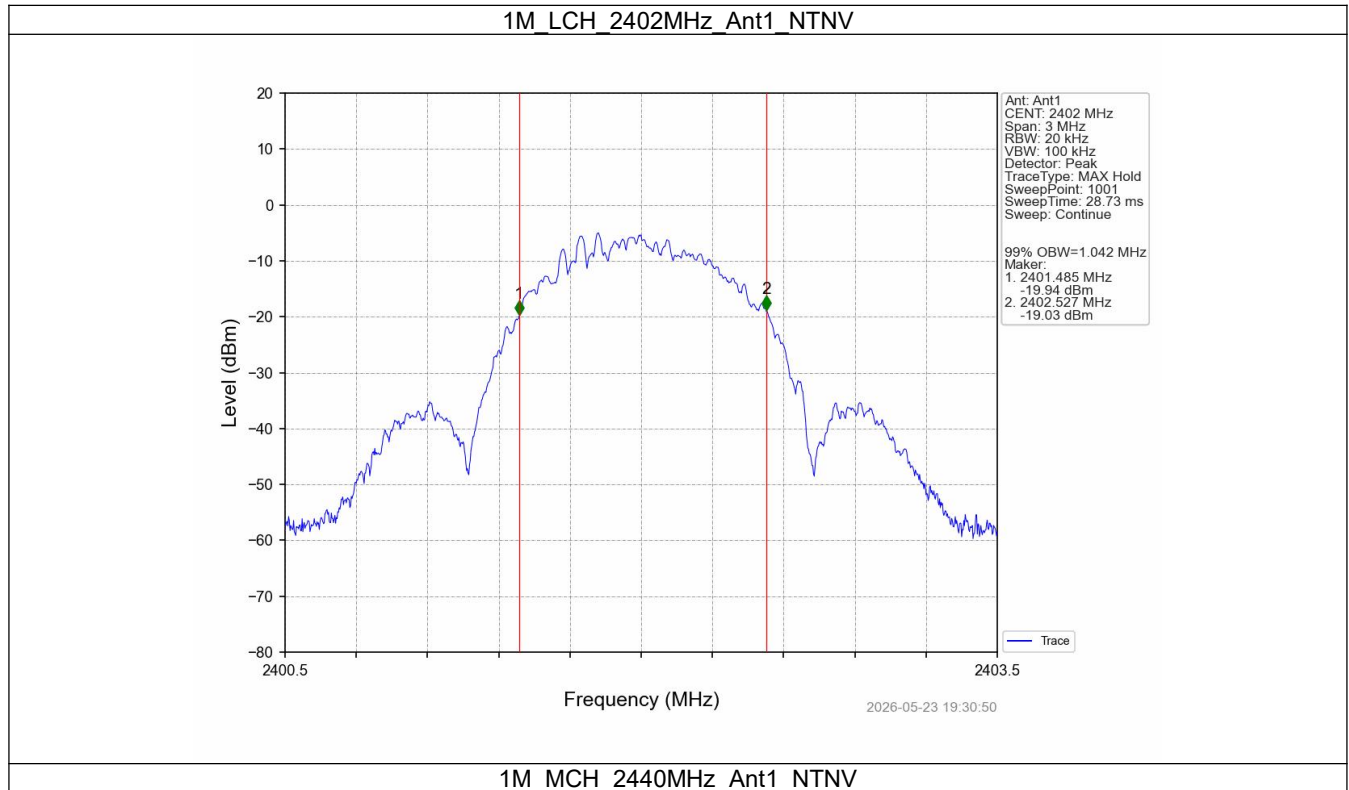
2.1.2 6dB BW

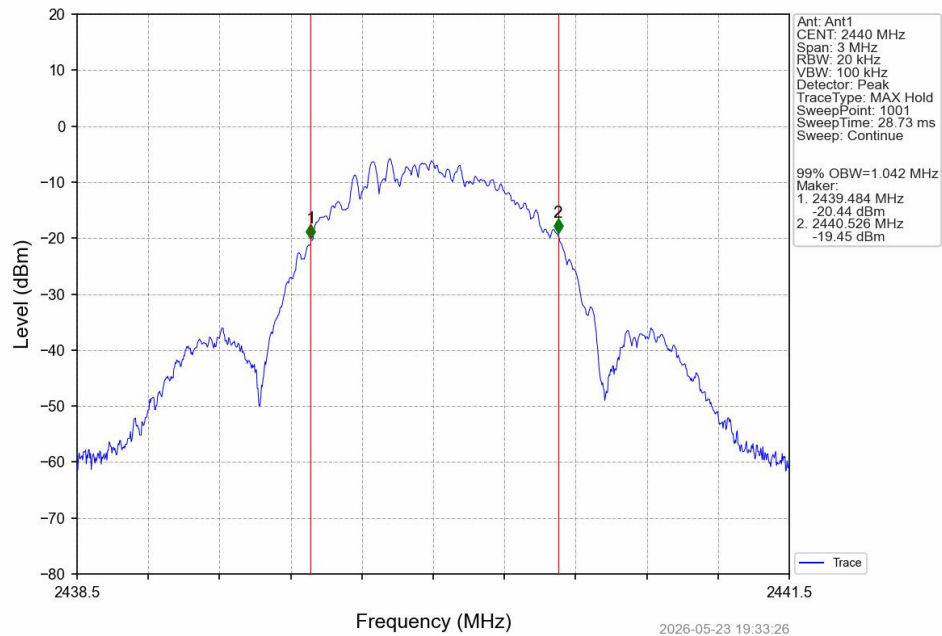
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.732	≥ 0.5	Pass
		2440	1	0.726	≥ 0.5	Pass
		2480	1	0.717	≥ 0.5	Pass

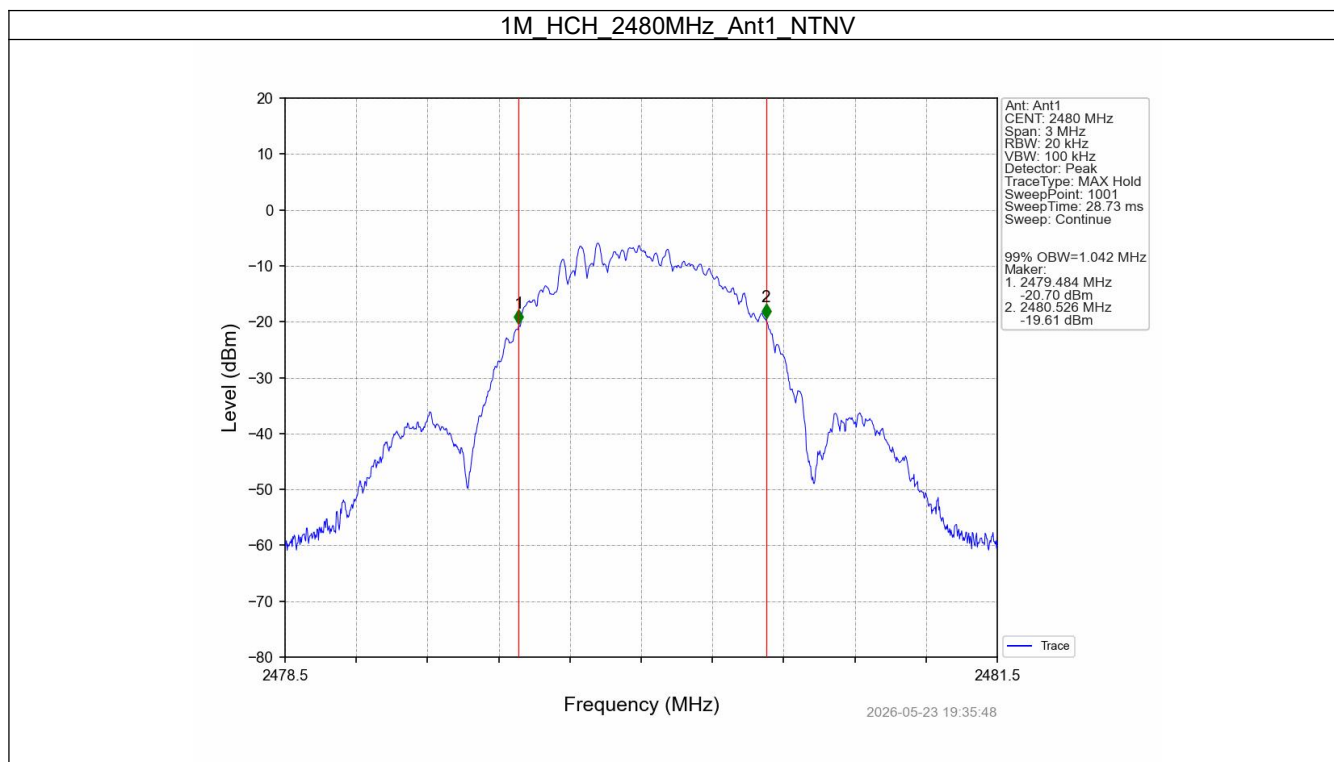


2.2 Test Graph

2.2.1 OBW

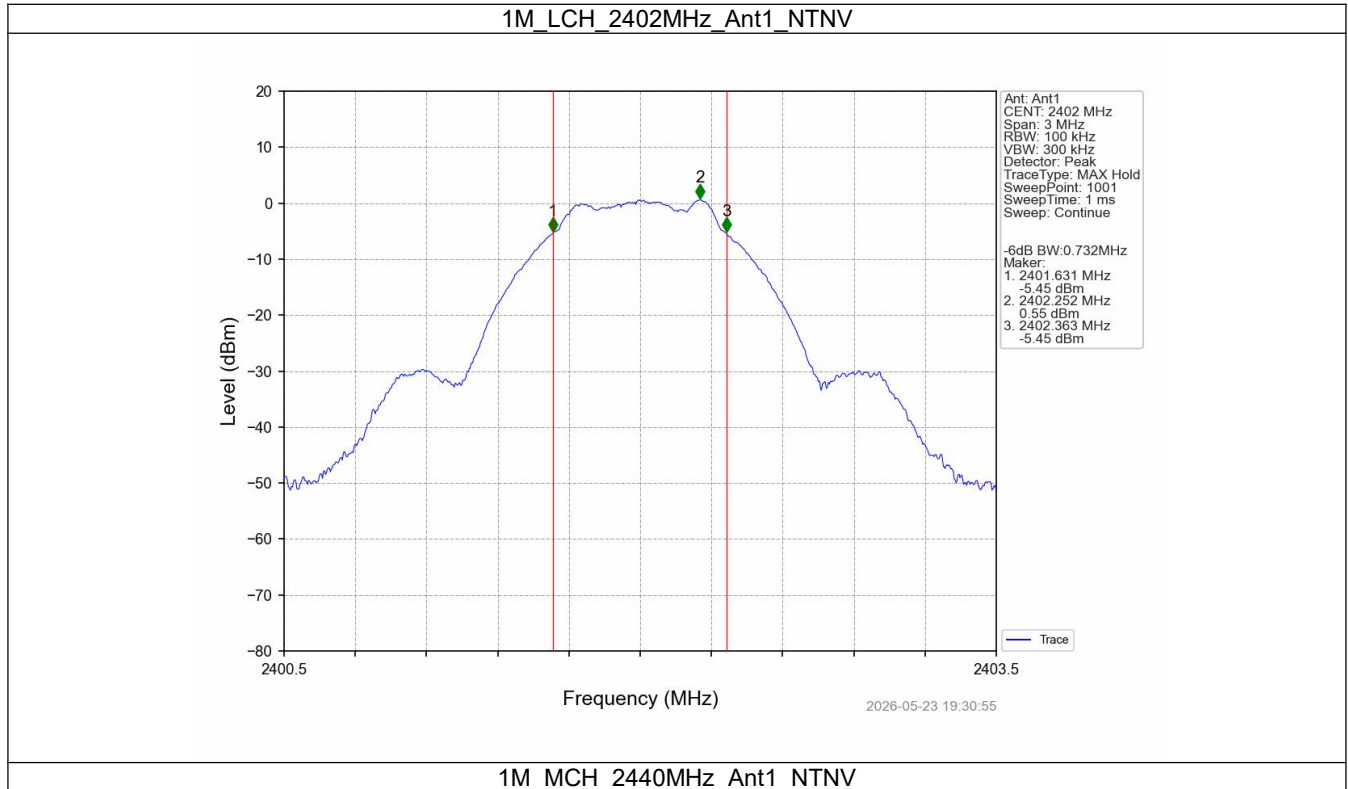


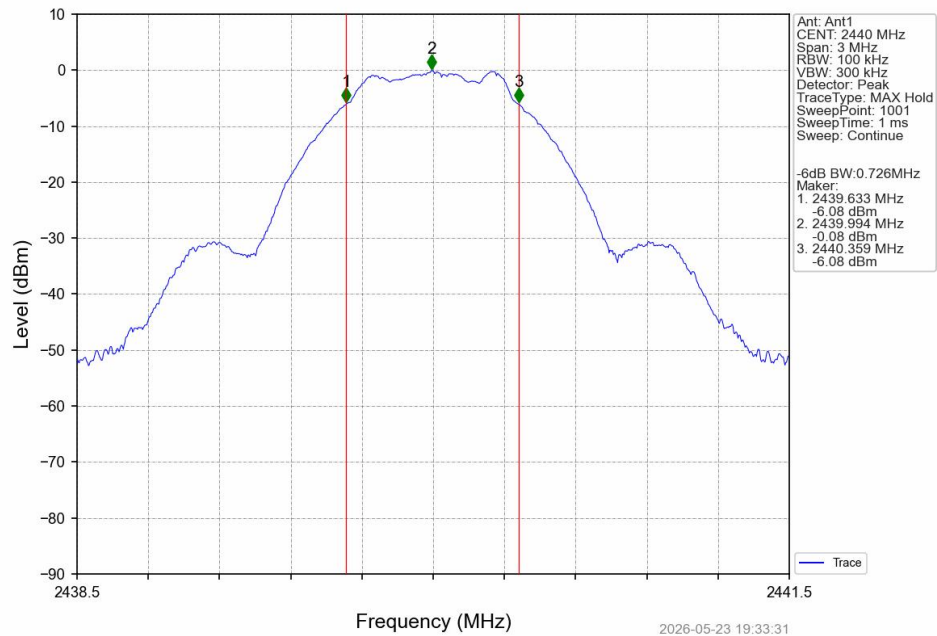




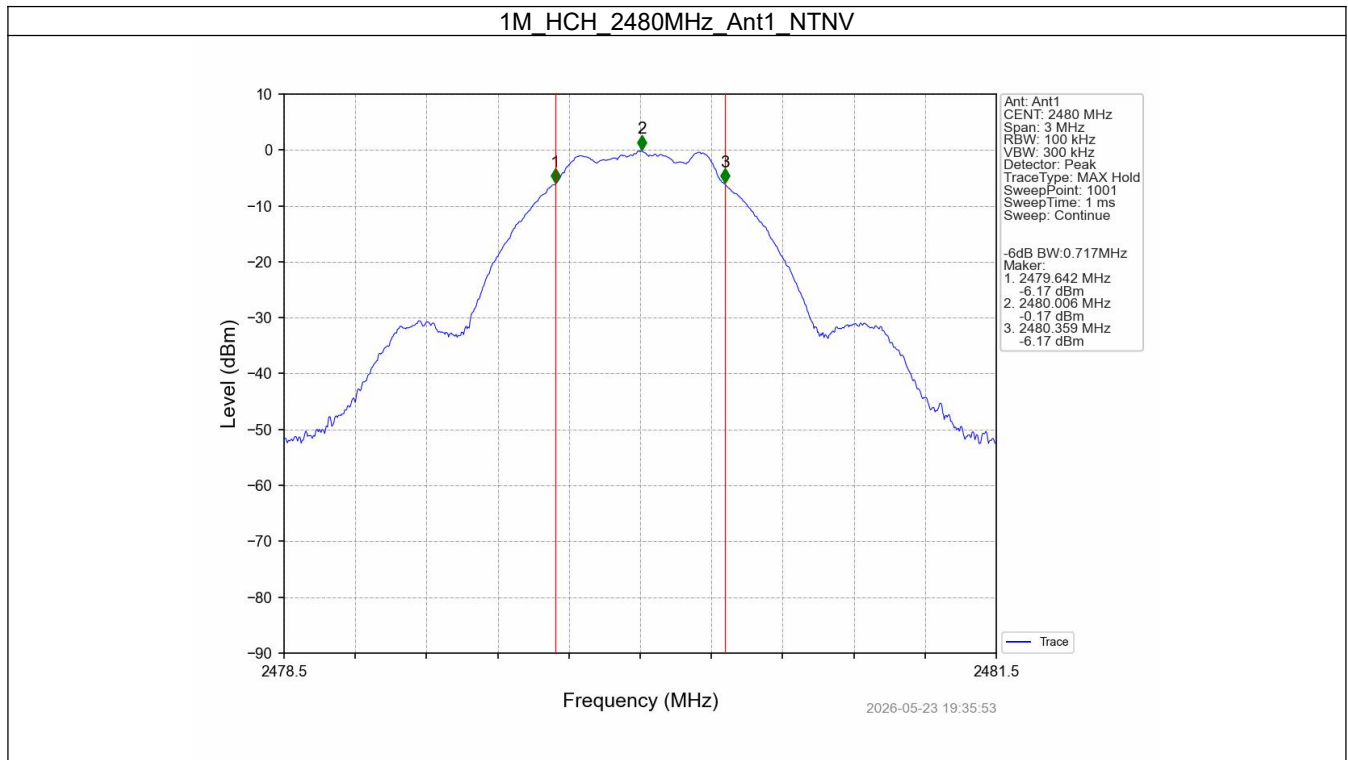


2.2.2 6dB BW





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3. Maximum Conducted Output Power

3.1 Test Result

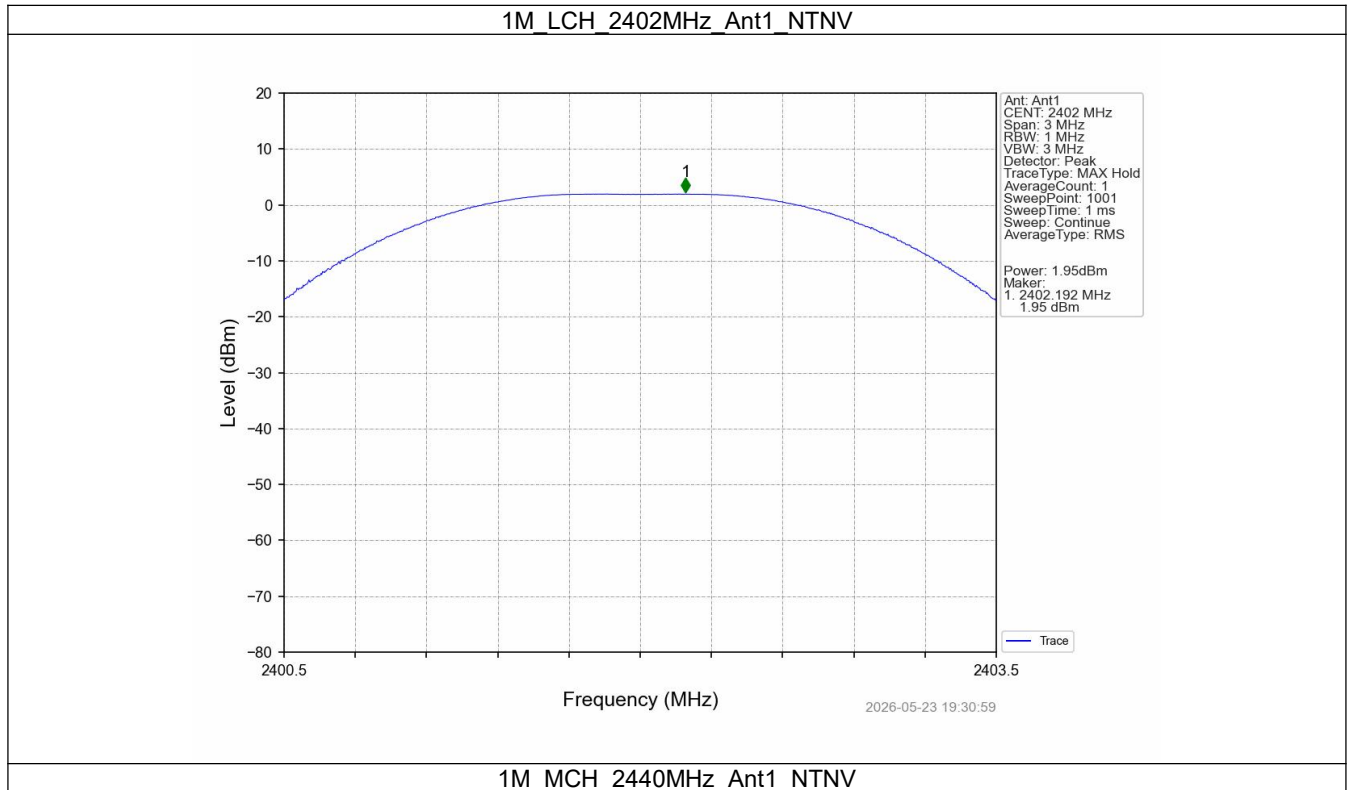
3.1.1 Power

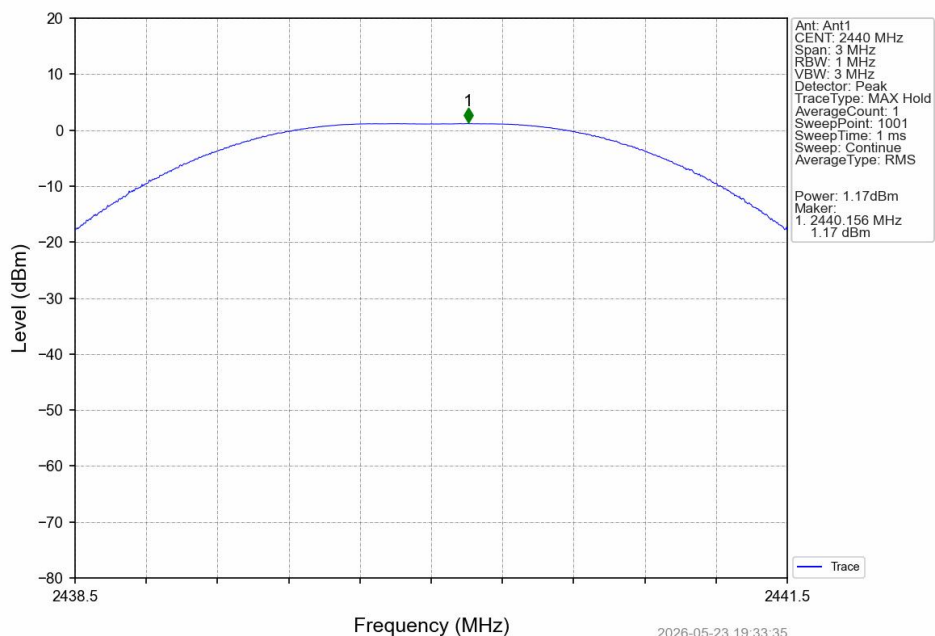
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.95	<=30	Pass
		2440	1.17	<=30	Pass
		2480	1.03	<=30	Pass
Note1: Antenna Gain: Ant1: 1.81dBi:					

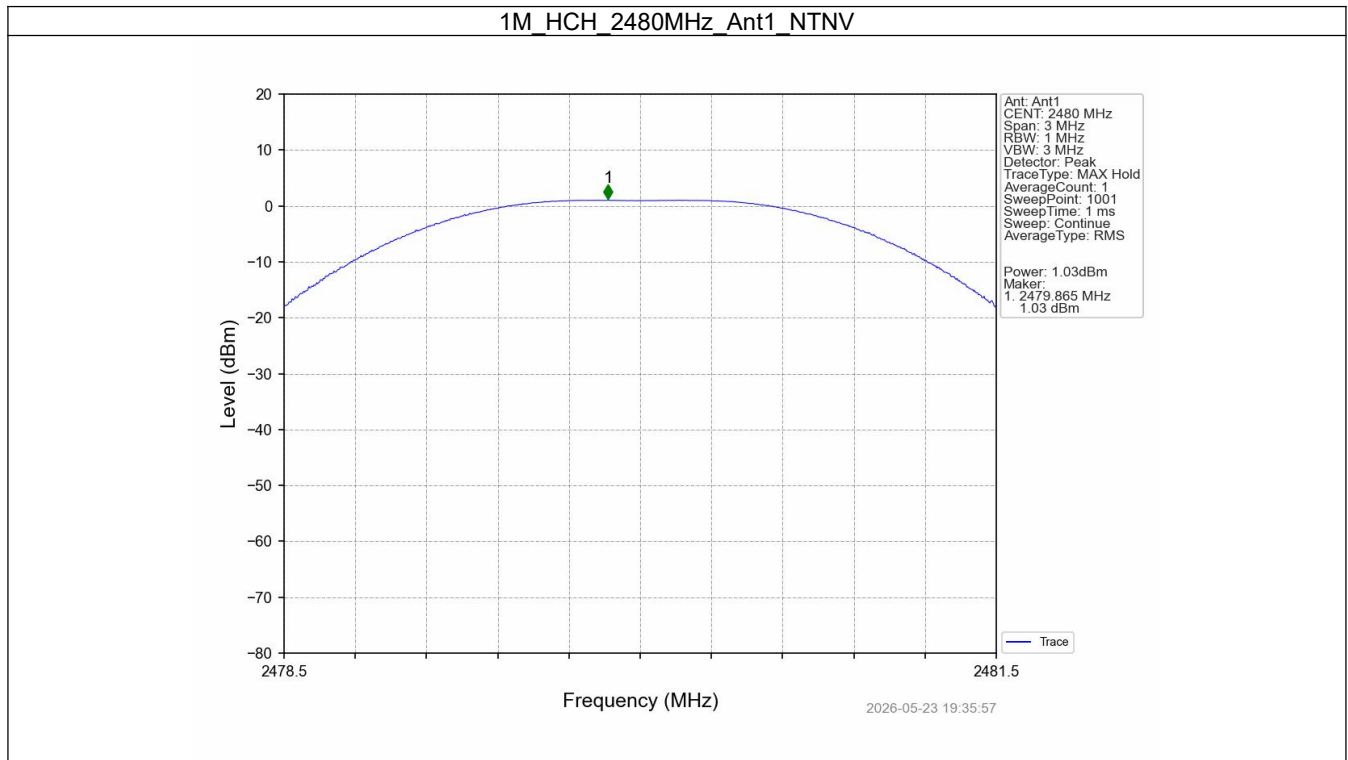


3.2 Test Graph

3.2.1 Power









4. Maximum Power Spectral Density

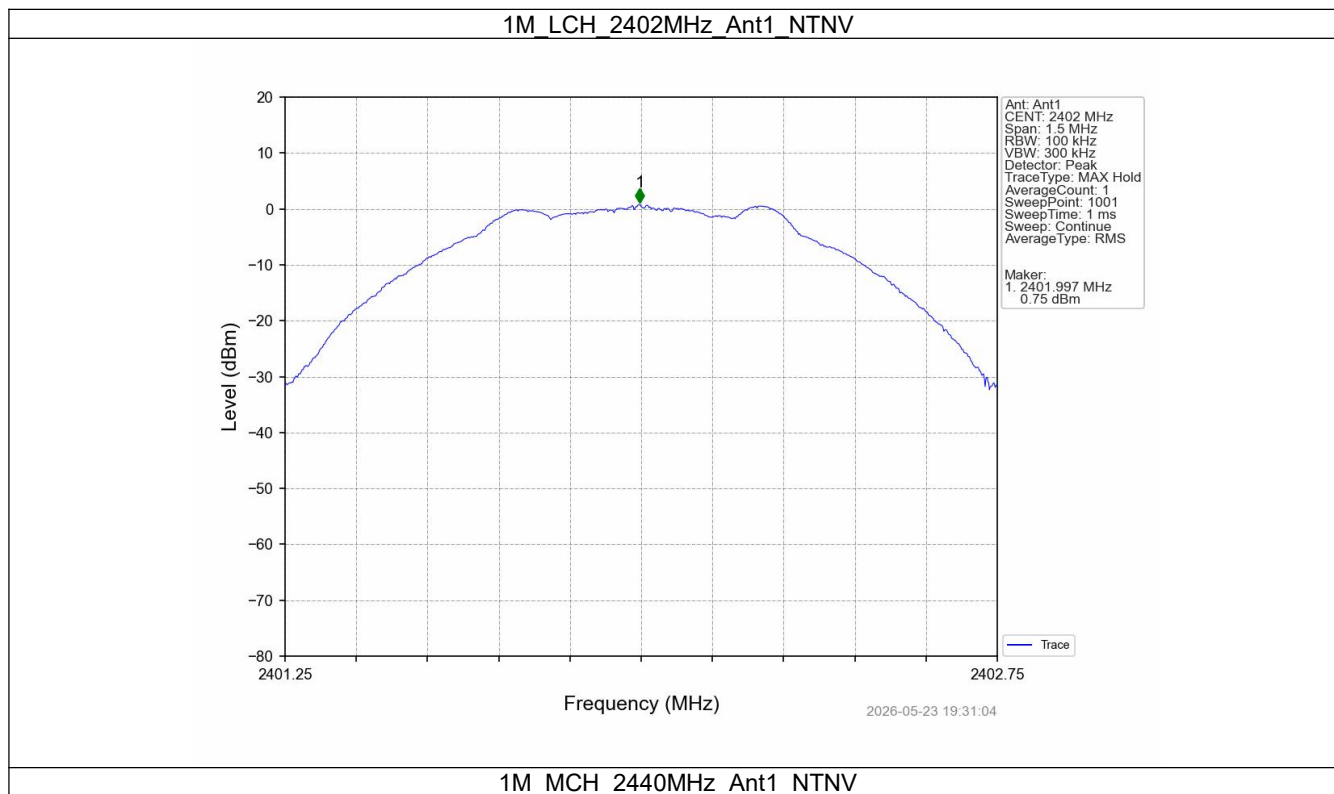
4.1 Test Result

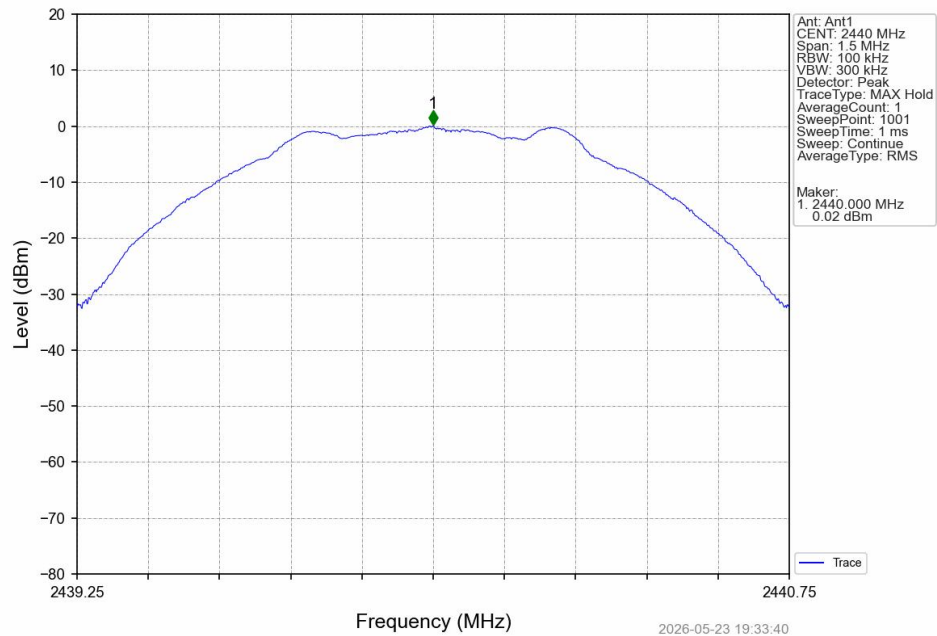
4.1.1 PSD

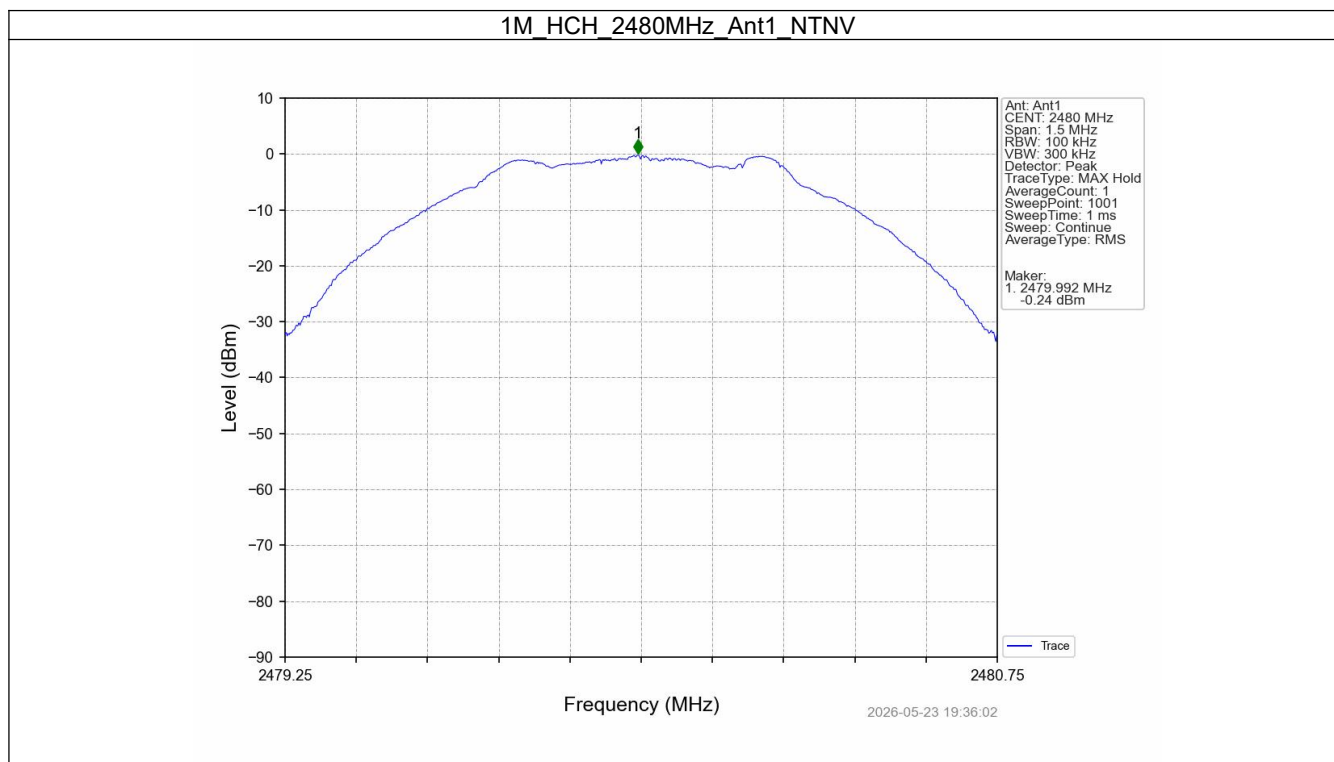
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	0.75dBm/100kHz	<=8	Pass
		2440	0.02dBm/100kHz	<=8	Pass
		2480	-0.24dBm/100kHz	<=8	Pass
Note1: Antenna Gain: Ant1: 1.81dBi;					

4.2 Test Graph

4.2.1 PSD









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	0.77
		2440	1	-0.13
		2480	1	-0.14

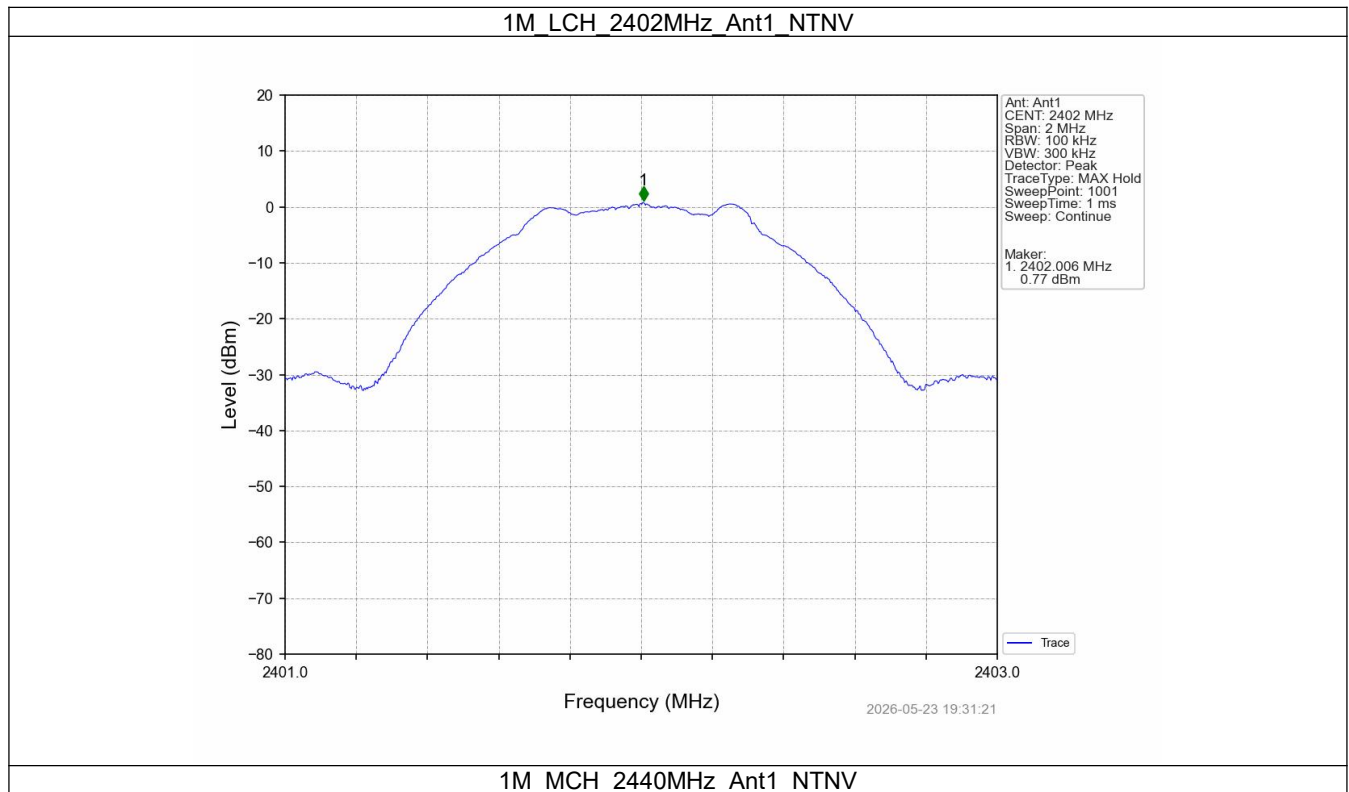
5.1.2 CSE

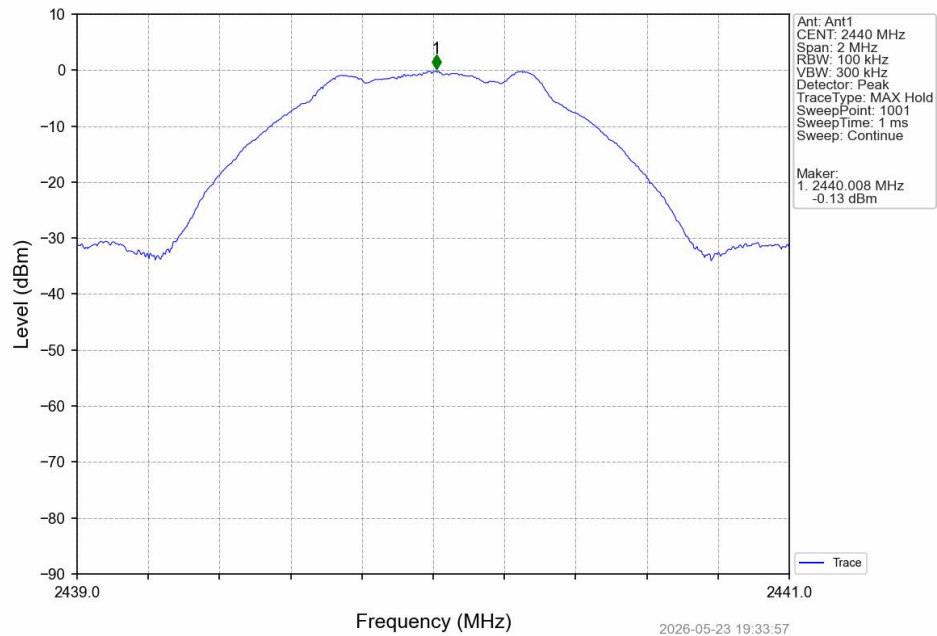
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.77	-19.23	Pass
		2440	1	0.77	-19.23	Pass
		2480	1	0.77	-19.23	Pass

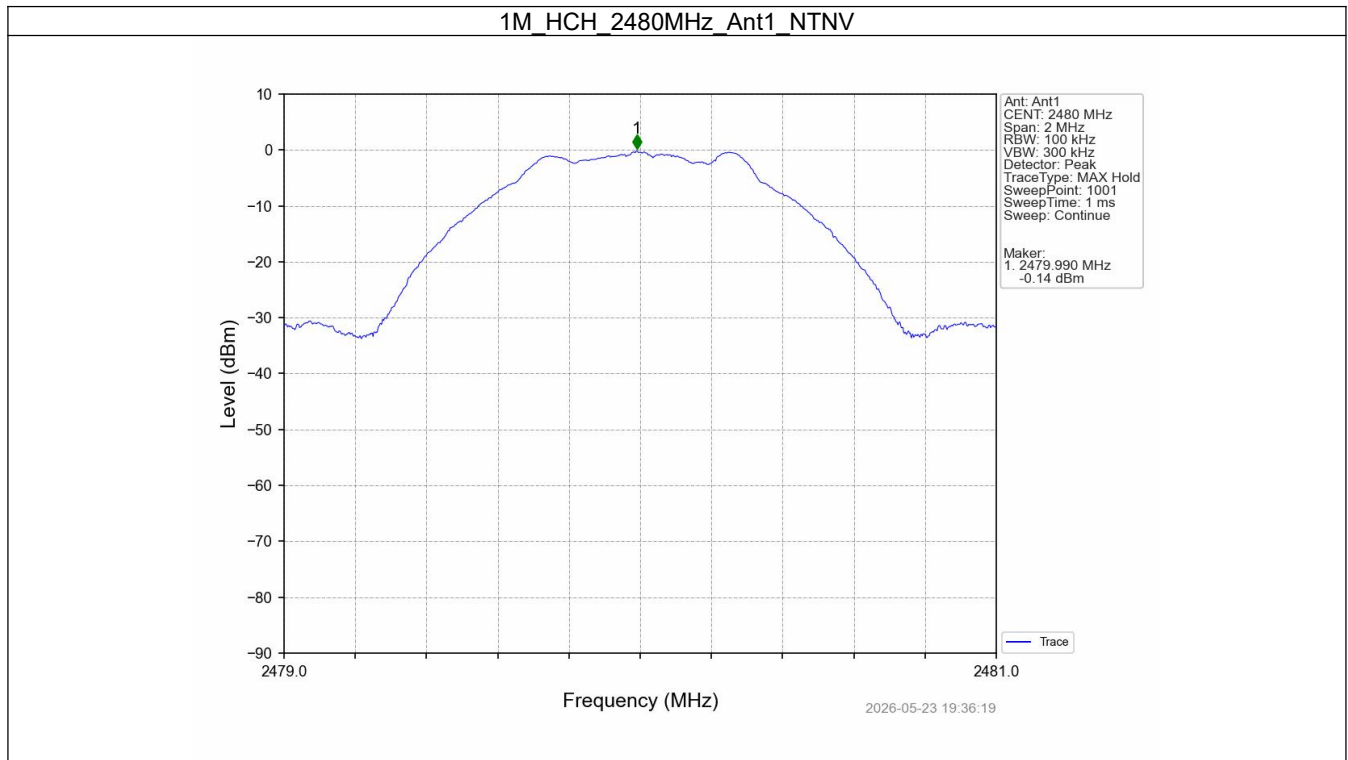


5.2 Test Graph

5.2.1 Ref

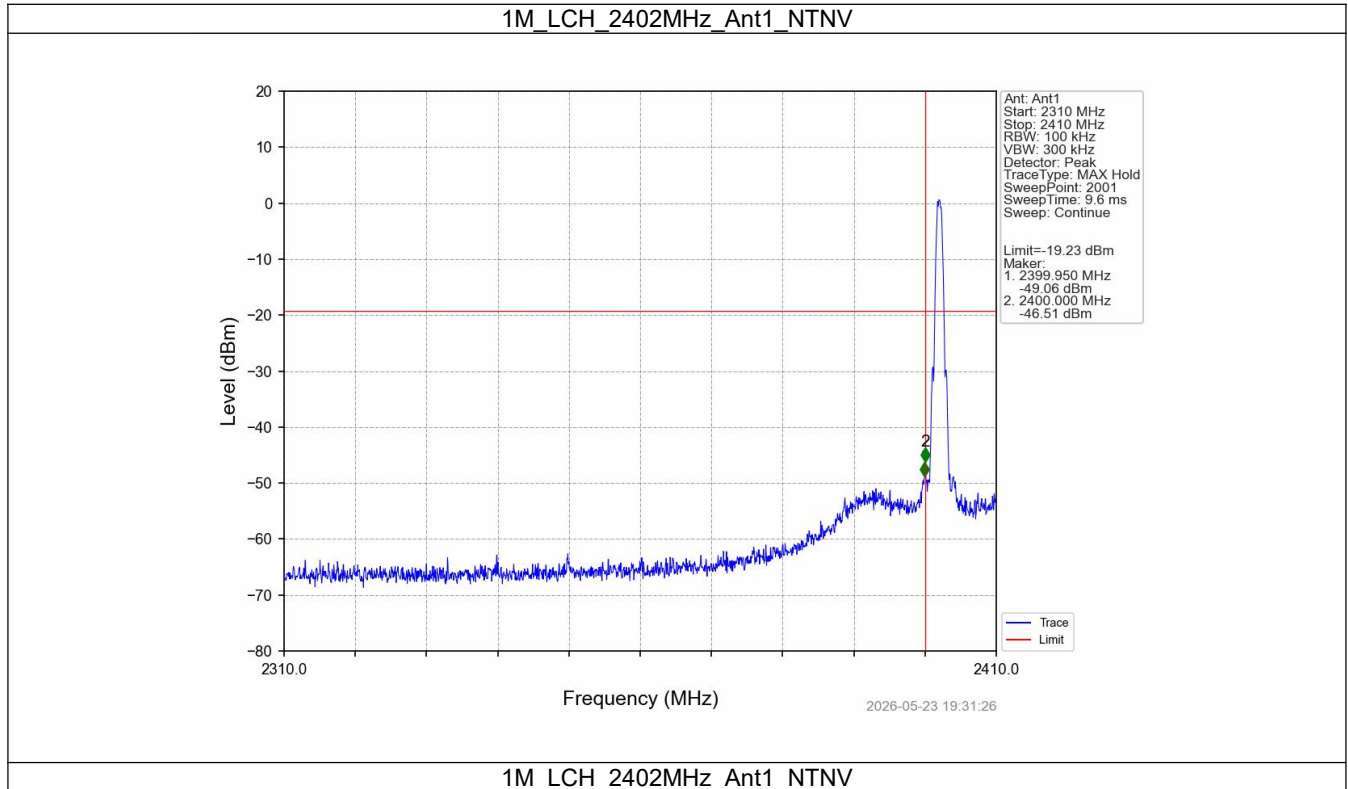


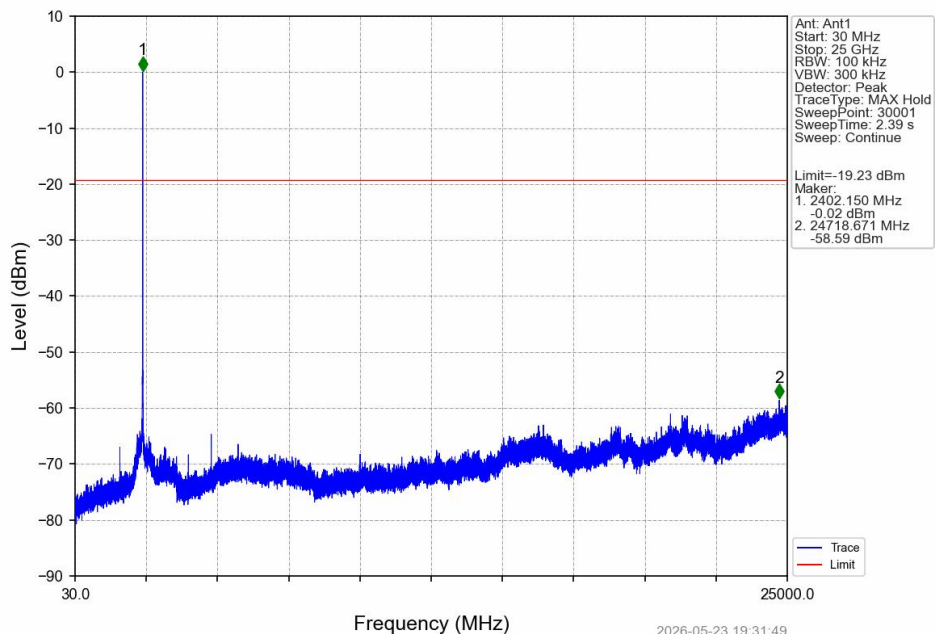




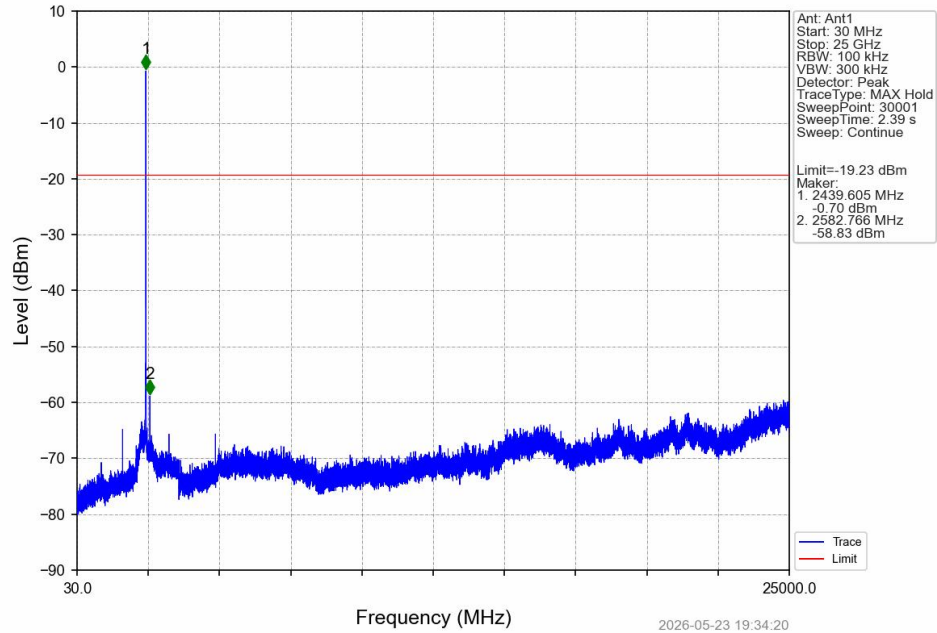


5.2.2 CSE

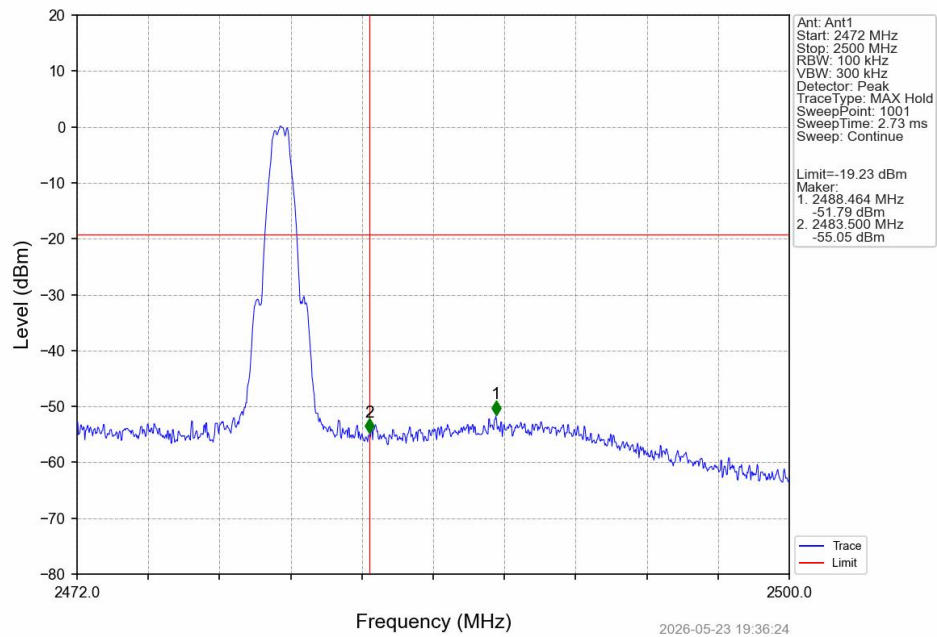


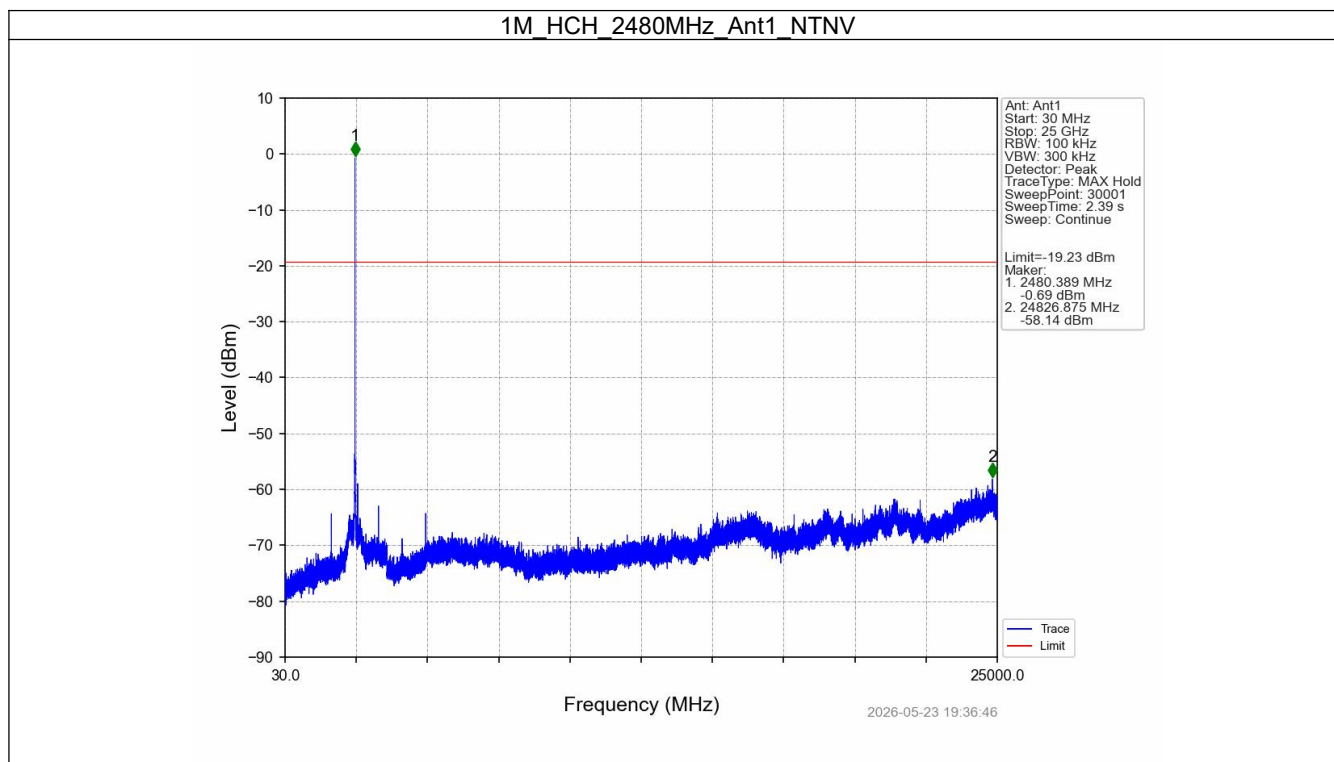


1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV







6. Unwanted Emissions In Restricted Frequency Bands

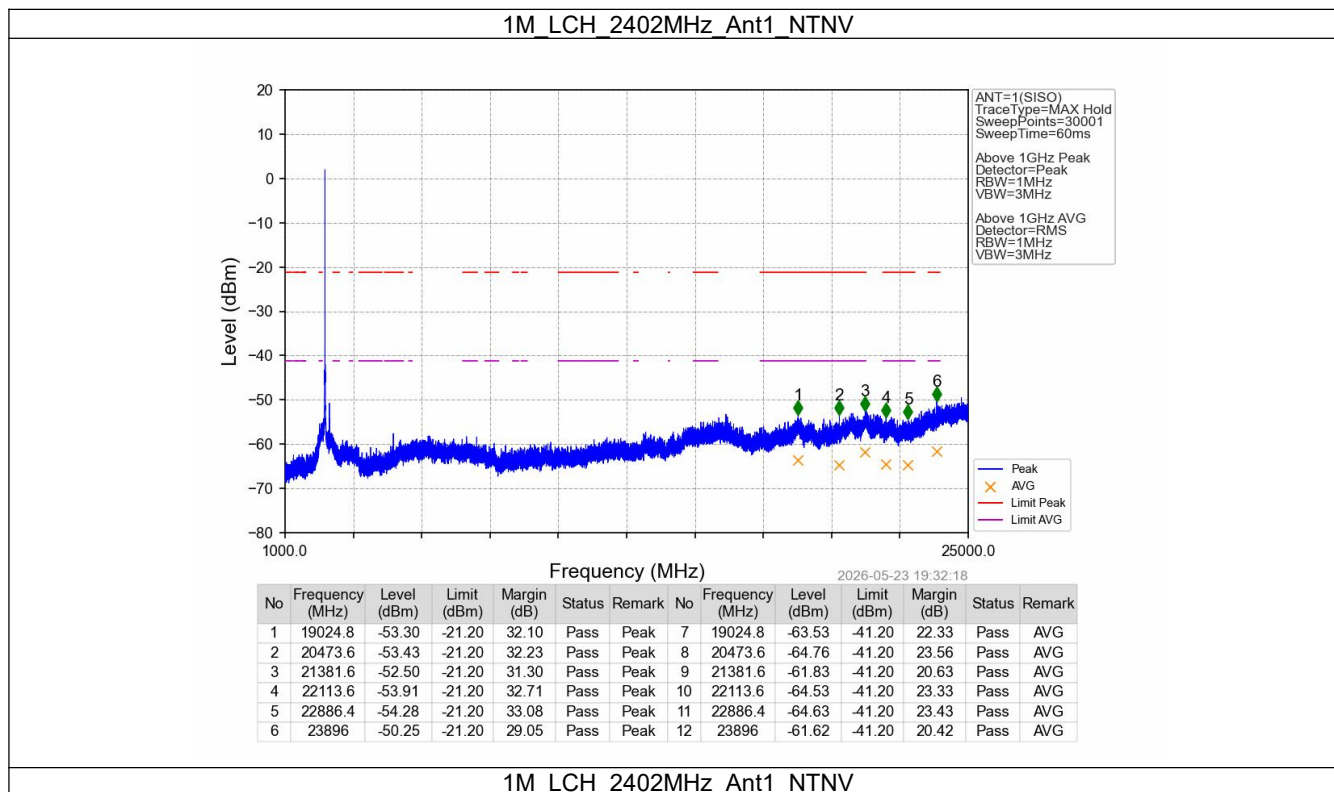
6.1 Test Result

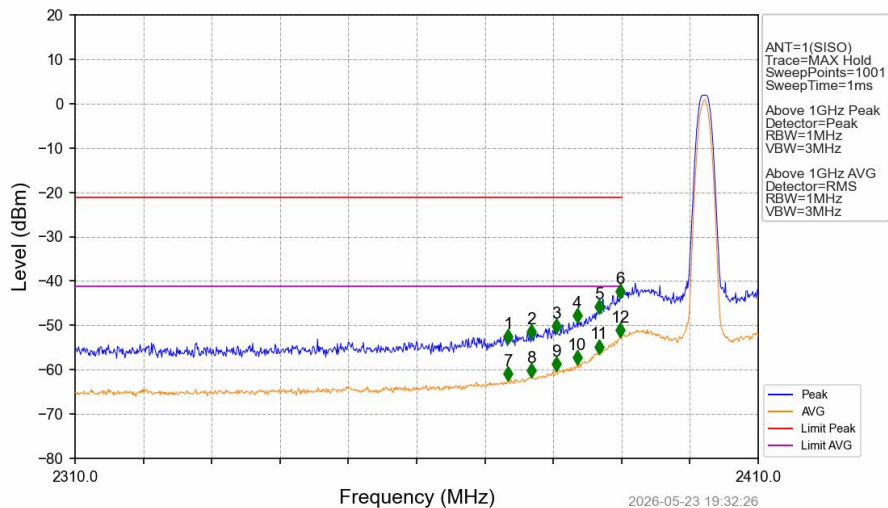
6.1.1 RSE

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

6.2 Test Graph

6.2.1 RSE



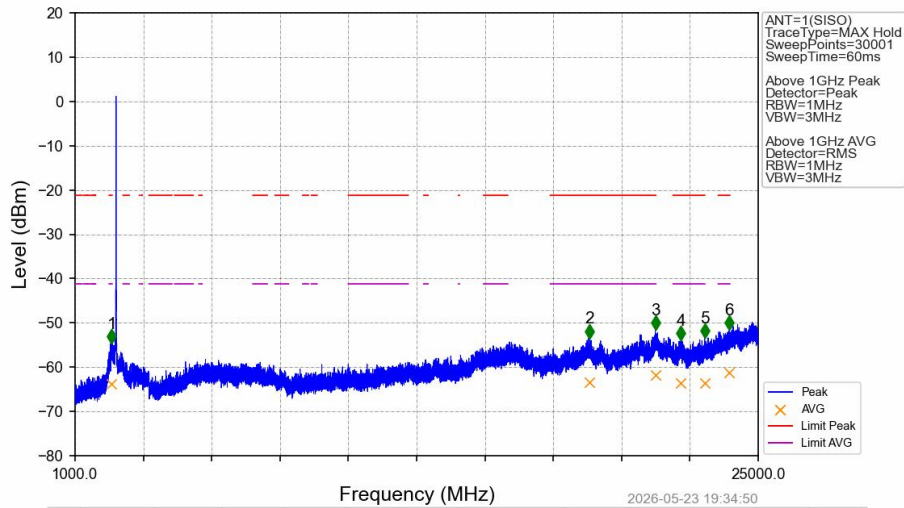


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No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2373.400	-54.07	-21.20	32.87	Pass	Peak	7	2373.400	-62.46	-41.20	21.26	Pass	AVG
2	2376.800	-52.90	-21.20	31.70	Pass	Peak	8	2376.800	-61.79	-41.20	20.59	Pass	AVG
3	2380.400	-51.69	-21.20	30.49	Pass	Peak	9	2380.400	-60.21	-41.20	19.01	Pass	AVG
4	2383.500	-49.39	-21.20	28.19	Pass	Peak	10	2383.500	-58.81	-41.20	17.61	Pass	AVG
5	2386.700	-47.35	-21.20	26.15	Pass	Peak	11	2386.700	-56.36	-41.20	15.16	Pass	AVG
6	2389.800	-43.87	-21.20	22.67	Pass	Peak	12	2389.800	-52.70	-41.20	11.50	Pass	AVG

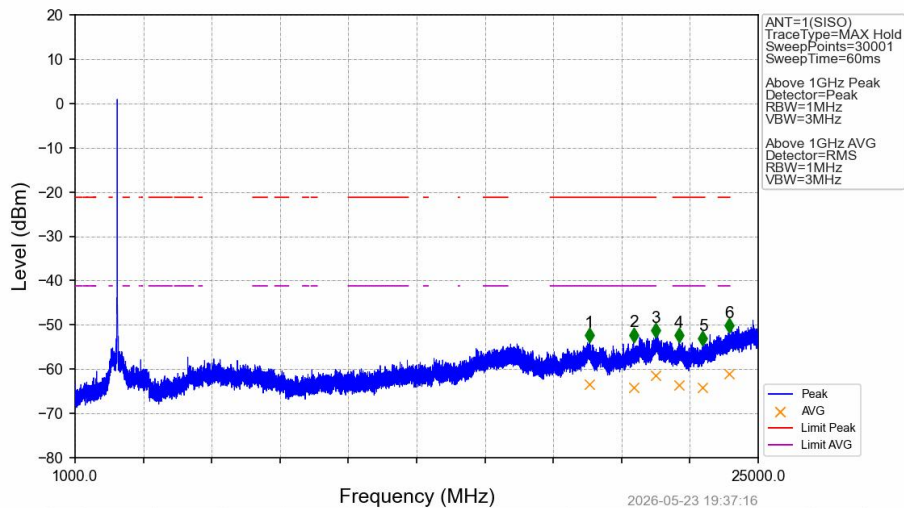


1M_MCH_2440MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2288	-54.63	-21.20	33.43	Pass	Peak	7	2288	-63.81	-41.20	22.61	Pass	AVG
2	19075.2	-53.44	-21.20	32.24	Pass	Peak	8	19075.2	-63.34	-41.20	22.14	Pass	AVG
3	21383.2	-51.55	-21.20	30.35	Pass	Peak	9	21383.2	-61.83	-41.20	20.63	Pass	AVG
4	22286.4	-53.92	-21.20	32.72	Pass	Peak	10	22286.4	-63.53	-41.20	22.33	Pass	AVG
5	23118.4	-53.39	-21.20	32.19	Pass	Peak	11	23118.4	-63.56	-41.20	22.36	Pass	AVG
6	23988.8	-51.45	-21.20	30.25	Pass	Peak	12	23988.8	-61.22	-41.20	20.02	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	19065.6	-53.91	-21.20	32.71	Pass	Peak	7	19065.6	-63.42	-41.20	22.22	Pass	AVG
2	20622.4	-53.81	-21.20	32.61	Pass	Peak	8	20622.4	-64.08	-41.20	22.88	Pass	AVG
3	21396.8	-52.73	-21.20	31.53	Pass	Peak	9	21396.8	-61.50	-41.20	20.30	Pass	AVG
4	22220.8	-53.95	-21.20	32.75	Pass	Peak	10	22220.8	-63.54	-41.20	22.34	Pass	AVG
5	23055.2	-54.61	-21.20	33.41	Pass	Peak	11	23055.2	-64.09	-41.20	22.89	Pass	AVG
6	23976.8	-51.71	-21.20	30.51	Pass	Peak	12	23976.8	-61.10	-41.20	19.90	Pass	AVG

