

1. Duty Cycle

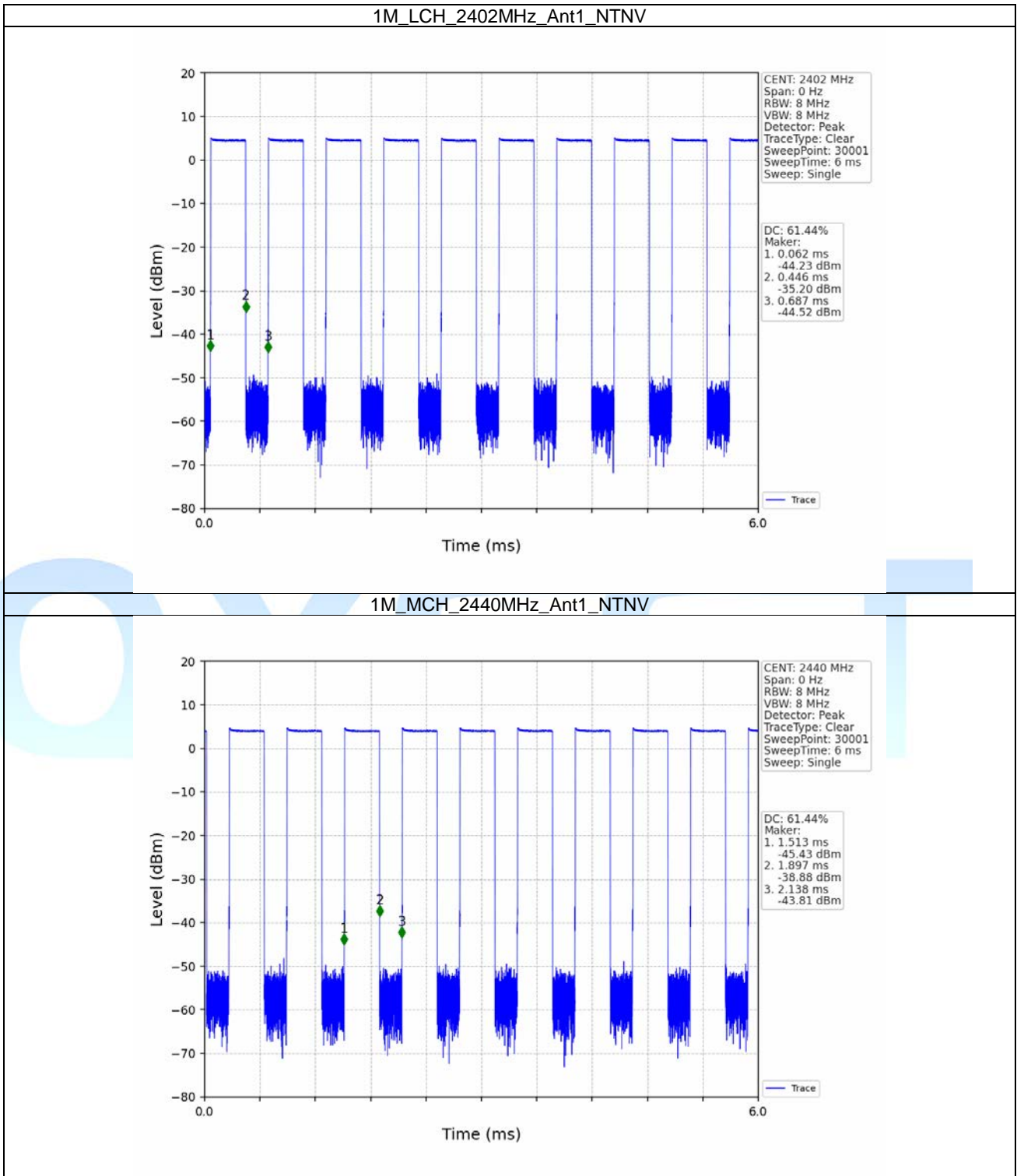
1.1 Test Result

1.1.1 Ant1

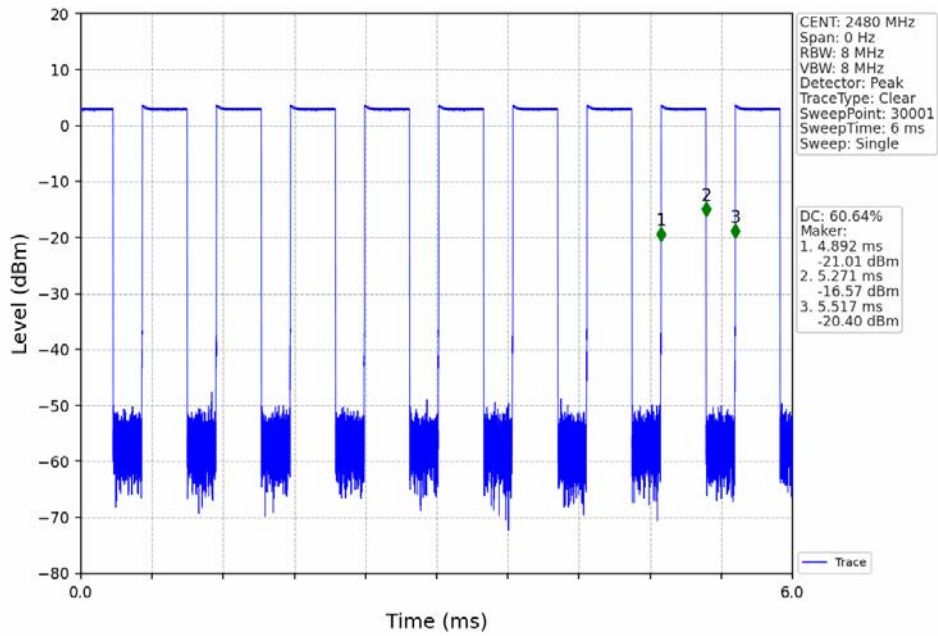
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.384	0.625	61.44	2.12	0.03
		2440	0.384	0.625	61.44	2.12	0.03
		2480	0.379	0.625	60.64	2.17	0.10
2M	SISO	2402	0.200	0.625	32.00	4.95	0.07
		2440	0.200	0.625	32.00	4.95	0.03
		2480	0.194	0.625	31.04	5.08	0.03

1.2 Test Graph

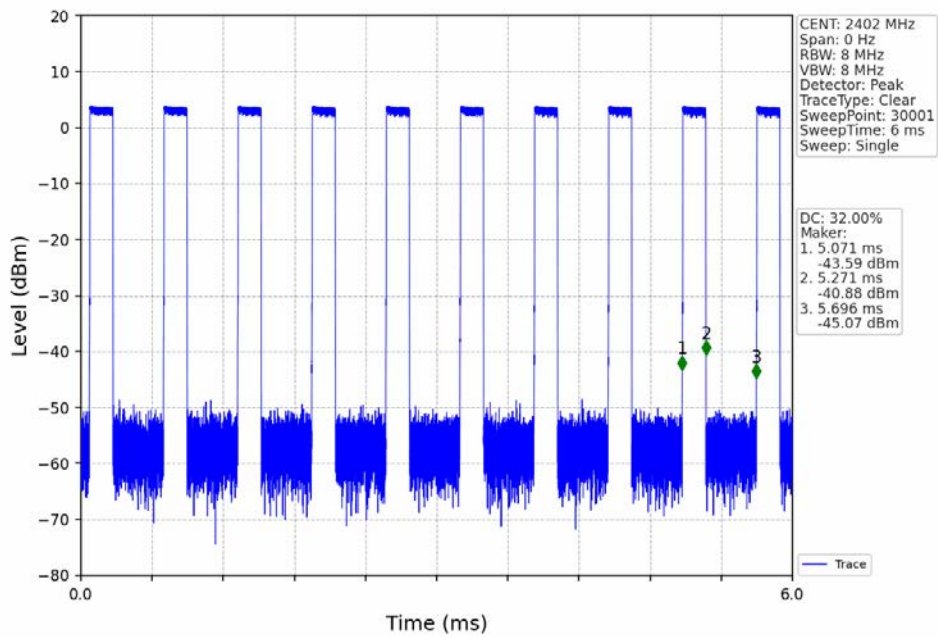
1.2.1 Ant1



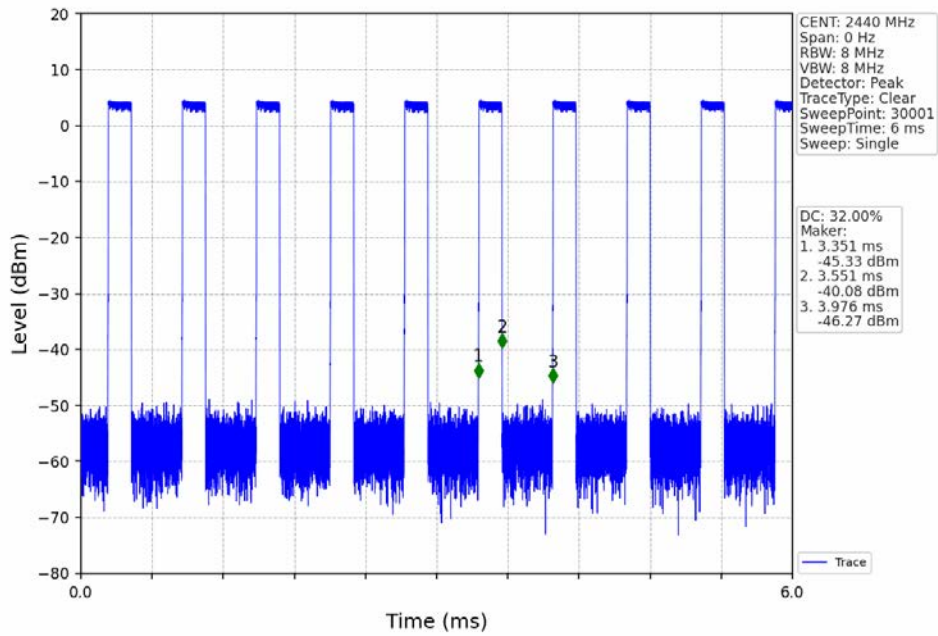
1M_HCH_2480MHz_Ant1_NTNV



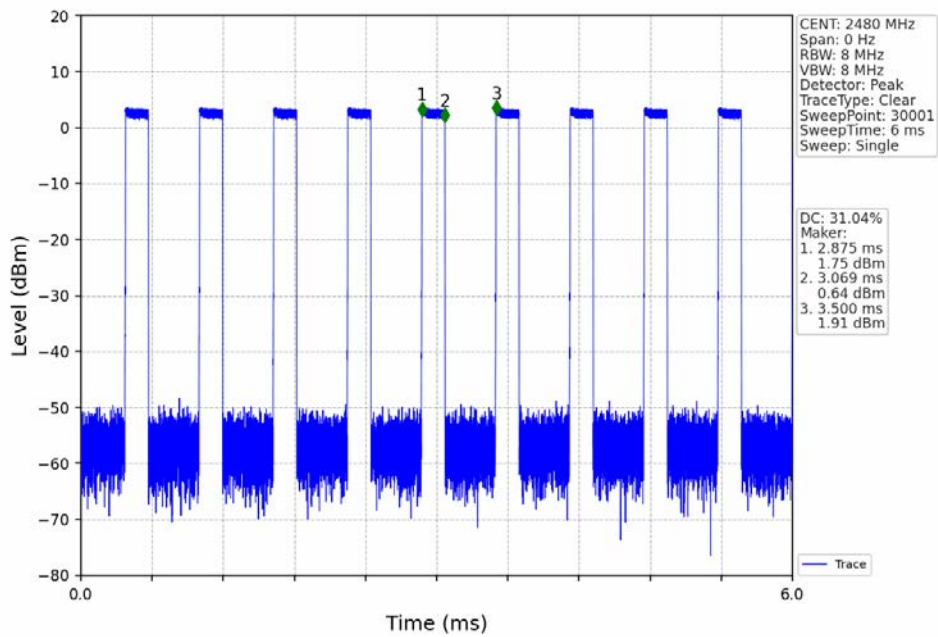
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

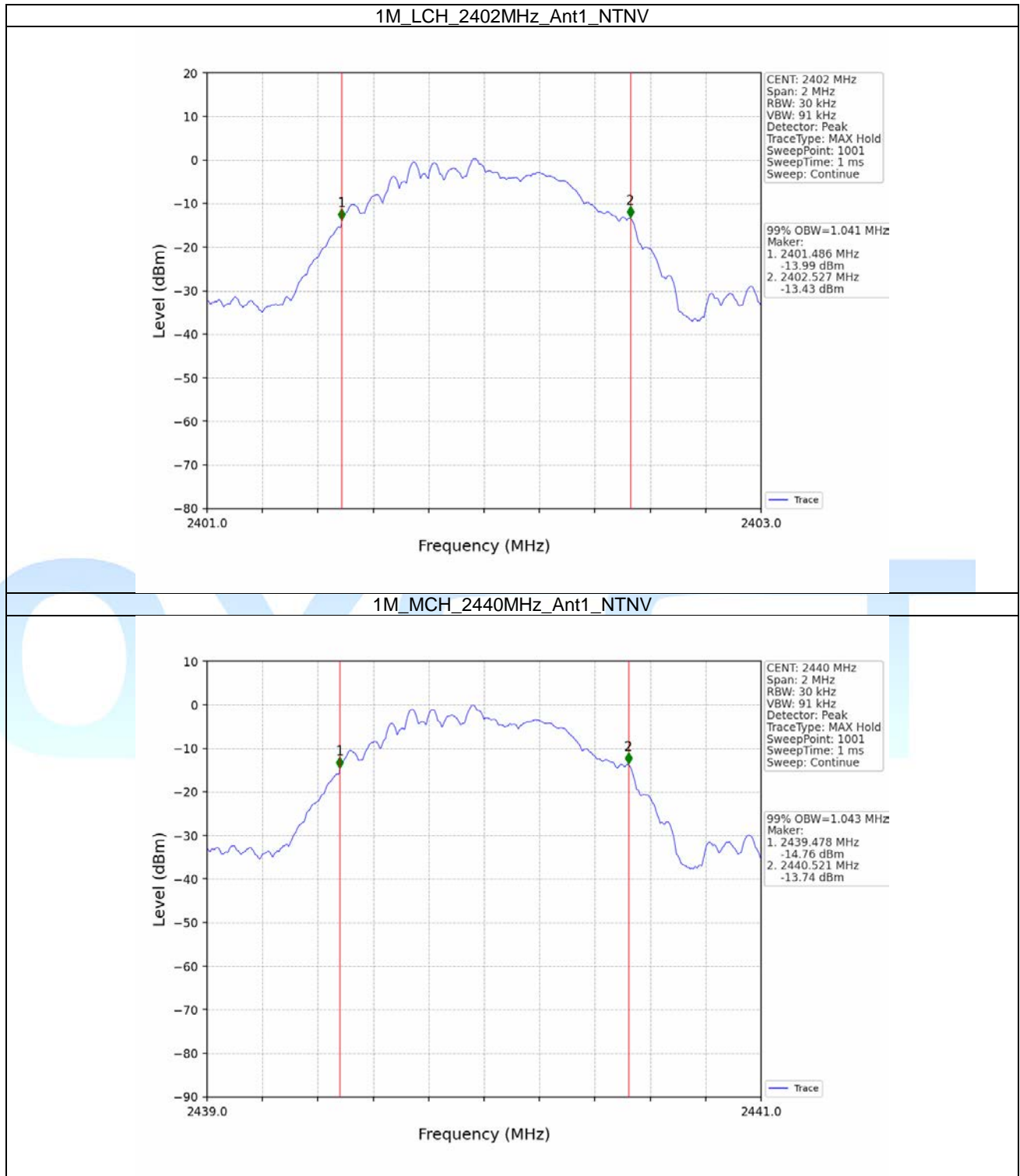
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.041	/	Pass
		2440	1	1.043	/	Pass
		2480	1	1.042	/	Pass
2M	SISO	2402	1	2.095	/	Pass
		2440	1	2.094	/	Pass
		2480	1	2.092	/	Pass

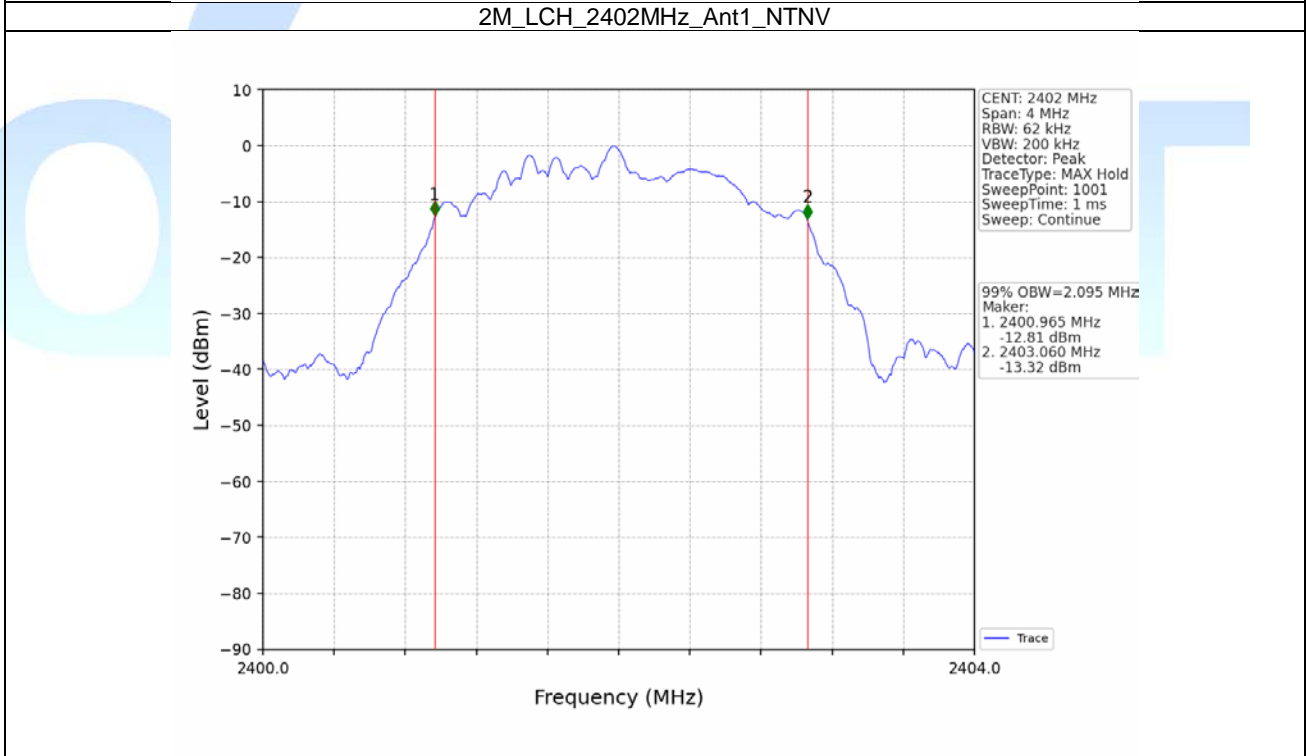
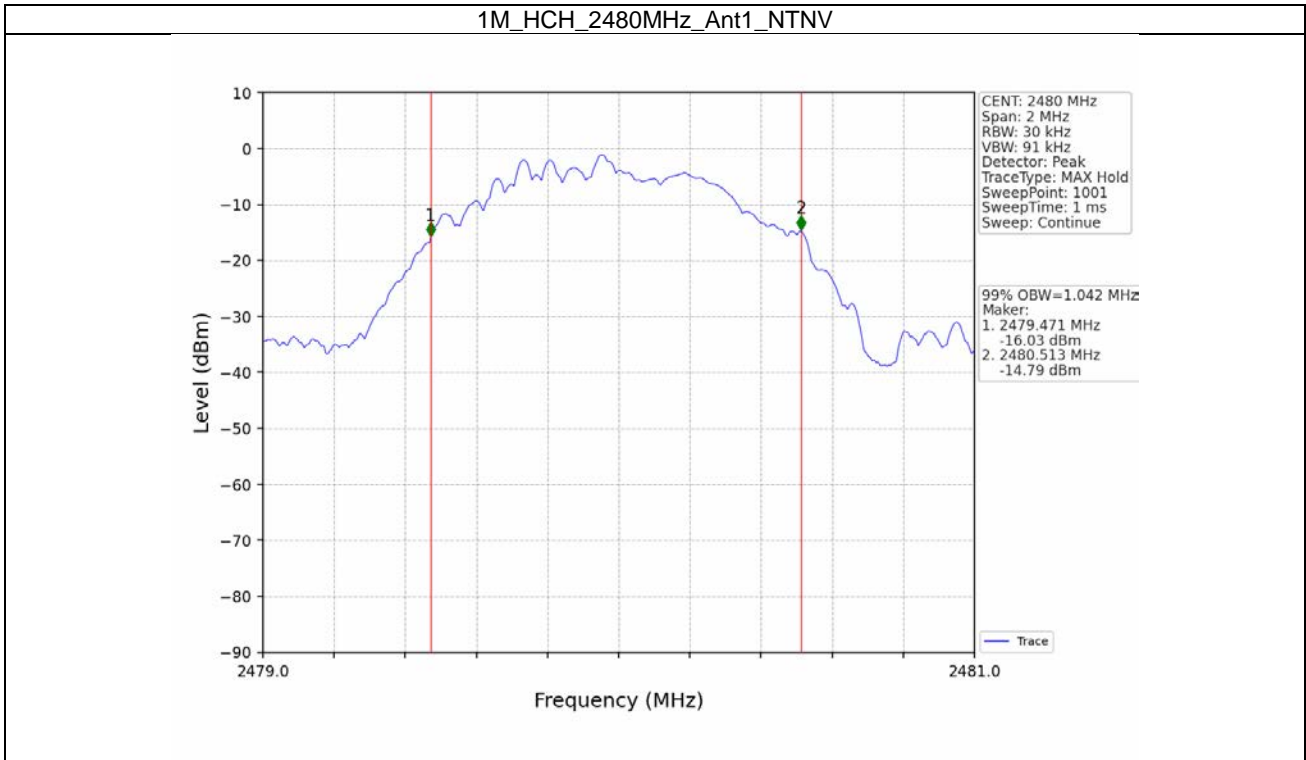
2.1.2 6dB BW

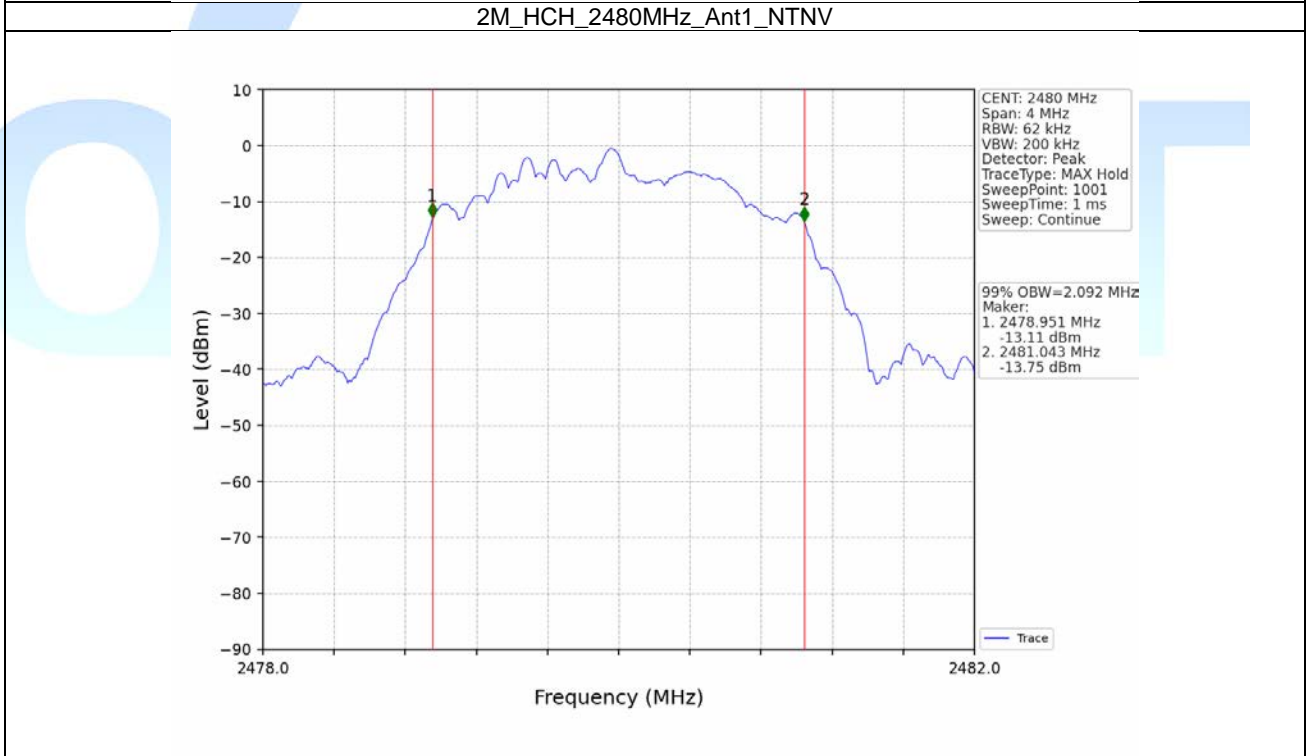
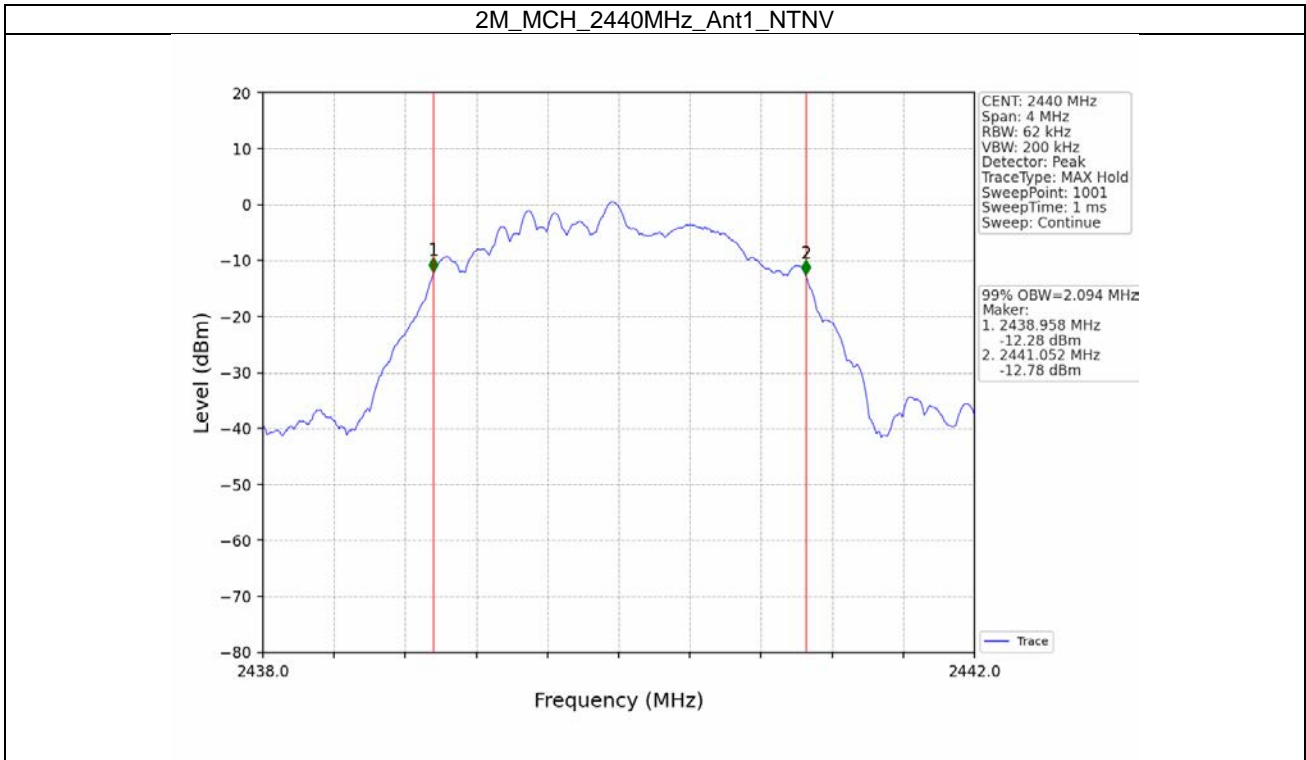
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.698	≥ 0.5	Pass
		2440	1	0.693	≥ 0.5	Pass
		2480	1	0.688	≥ 0.5	Pass
2M	SISO	2402	1	1.273	≥ 0.5	Pass
		2440	1	1.273	≥ 0.5	Pass
		2480	1	1.274	≥ 0.5	Pass

2.2 Test Graph

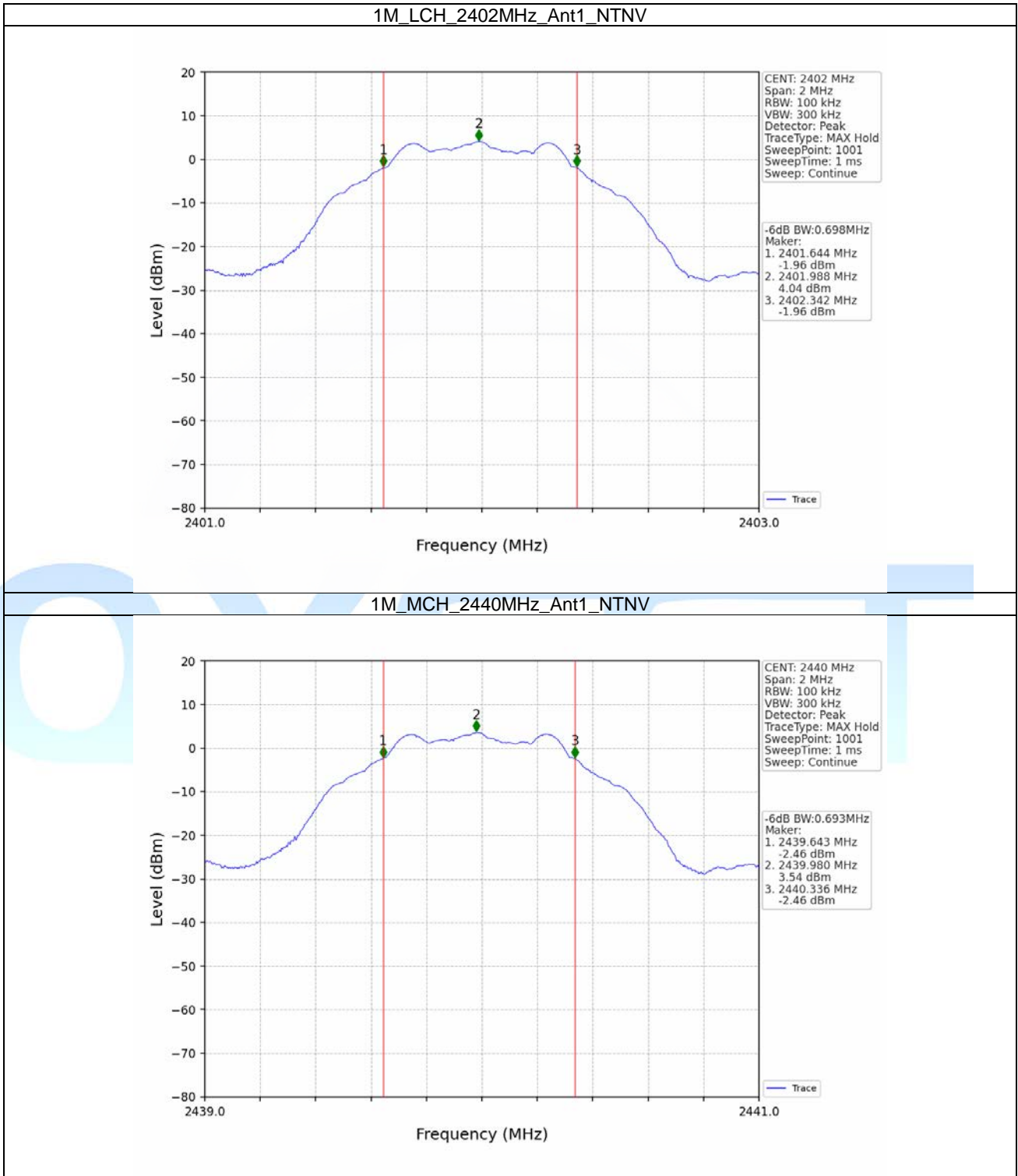
2.2.1 OBW

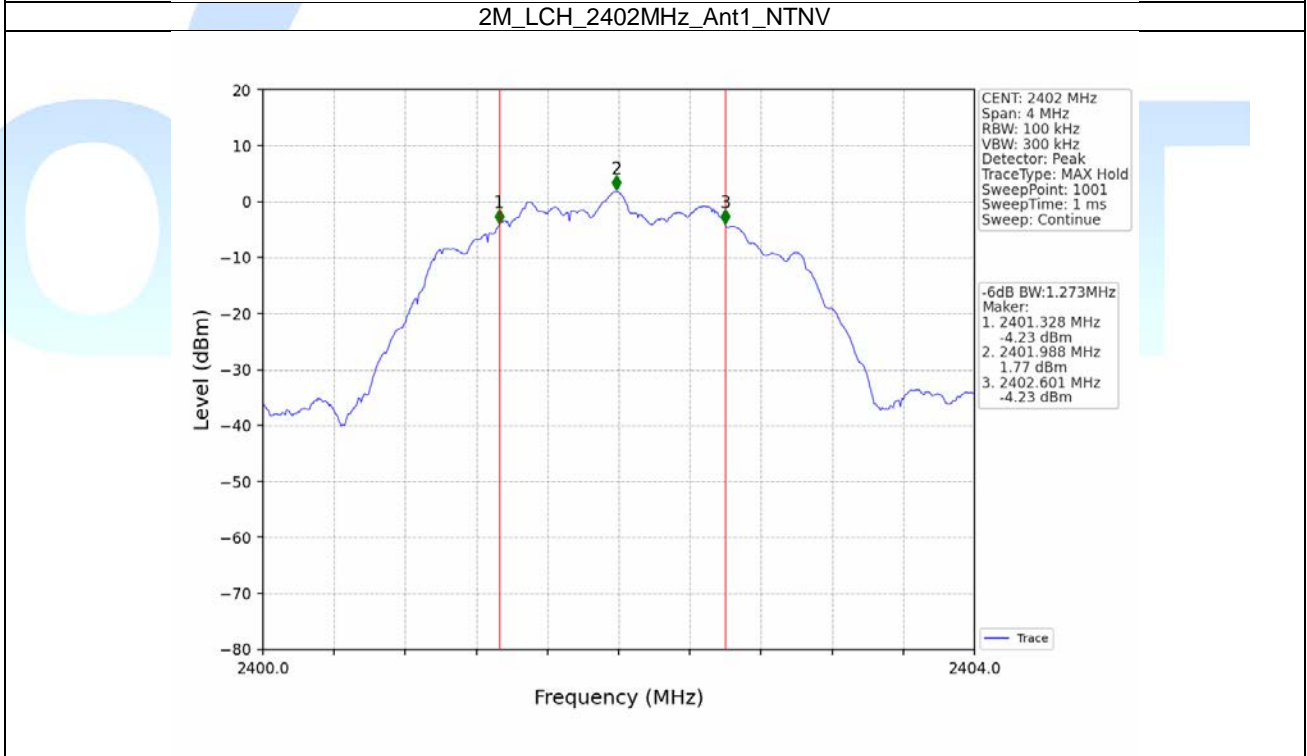
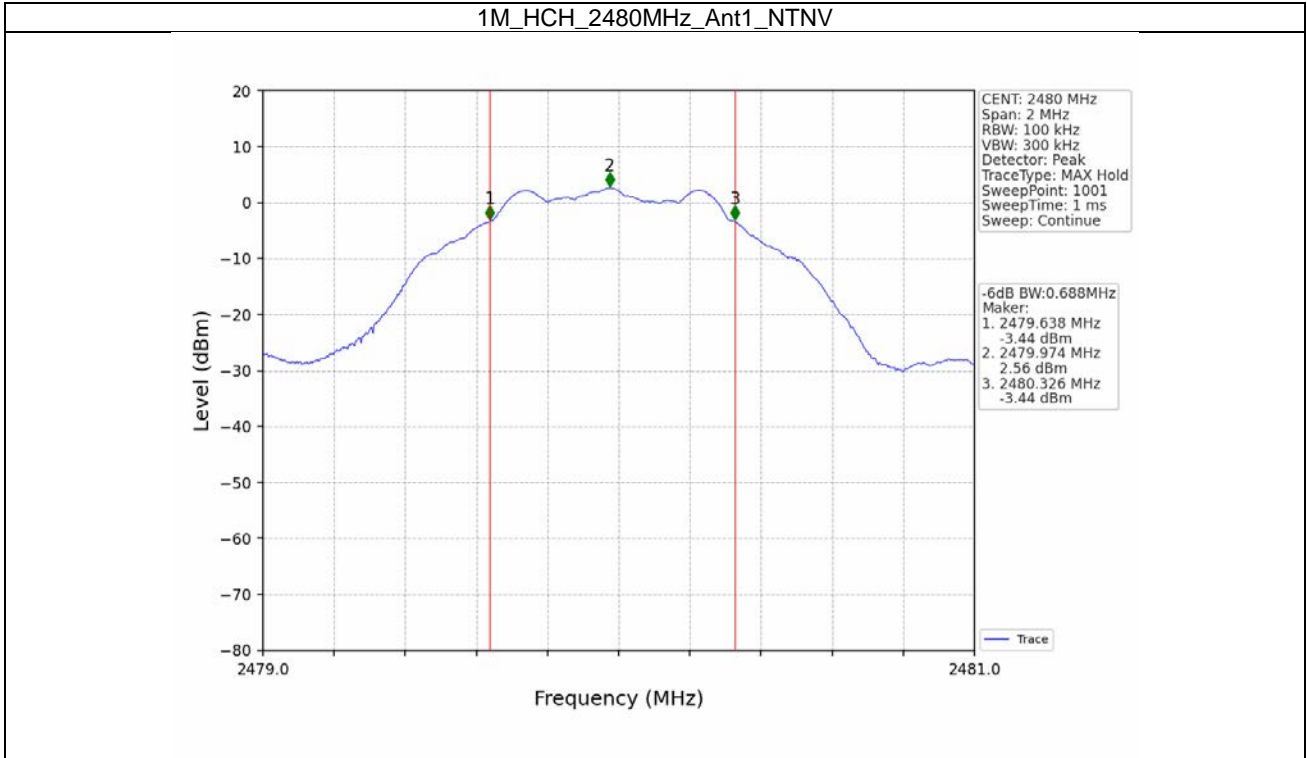




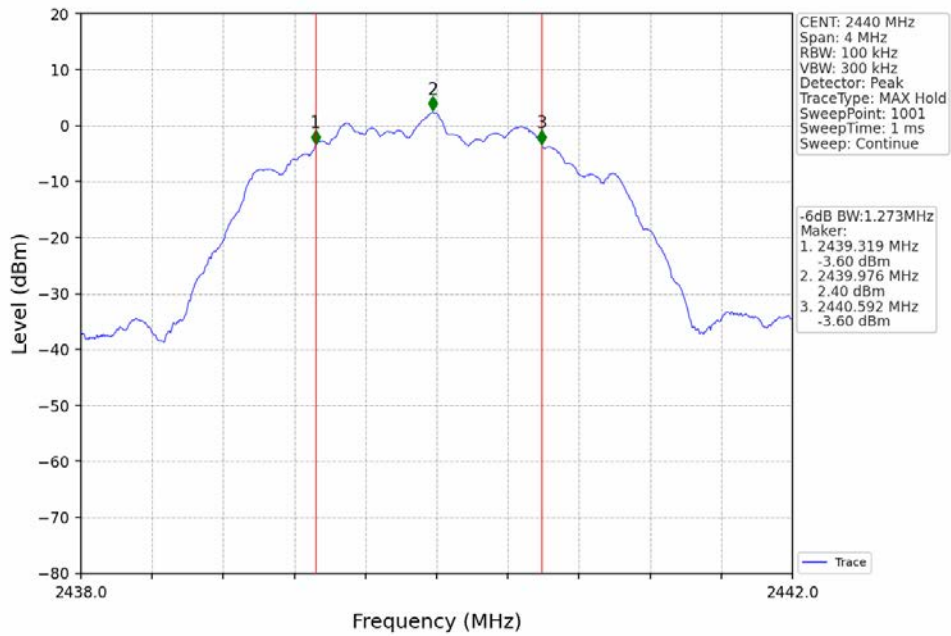


2.2.2 6dB BW

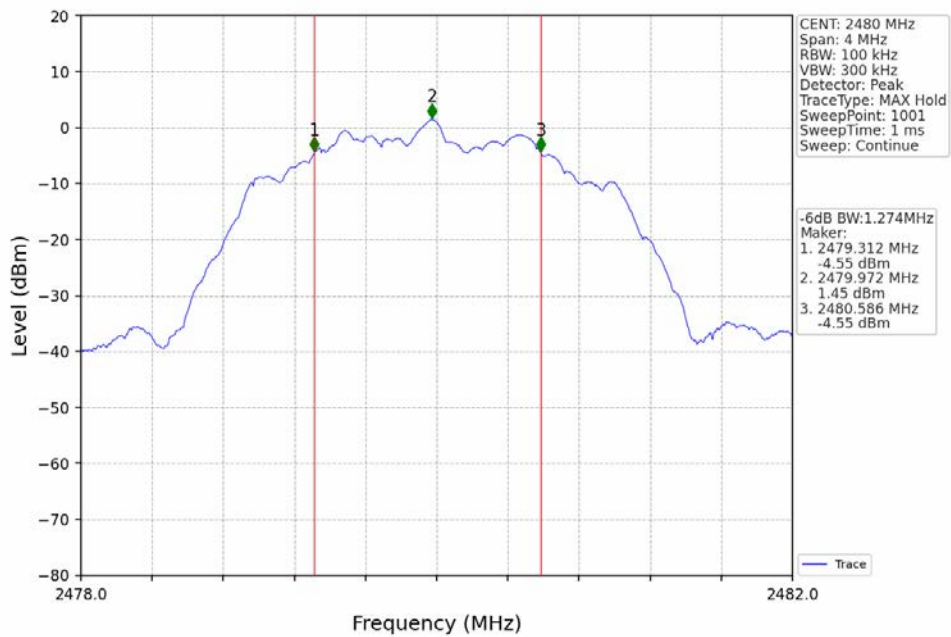




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

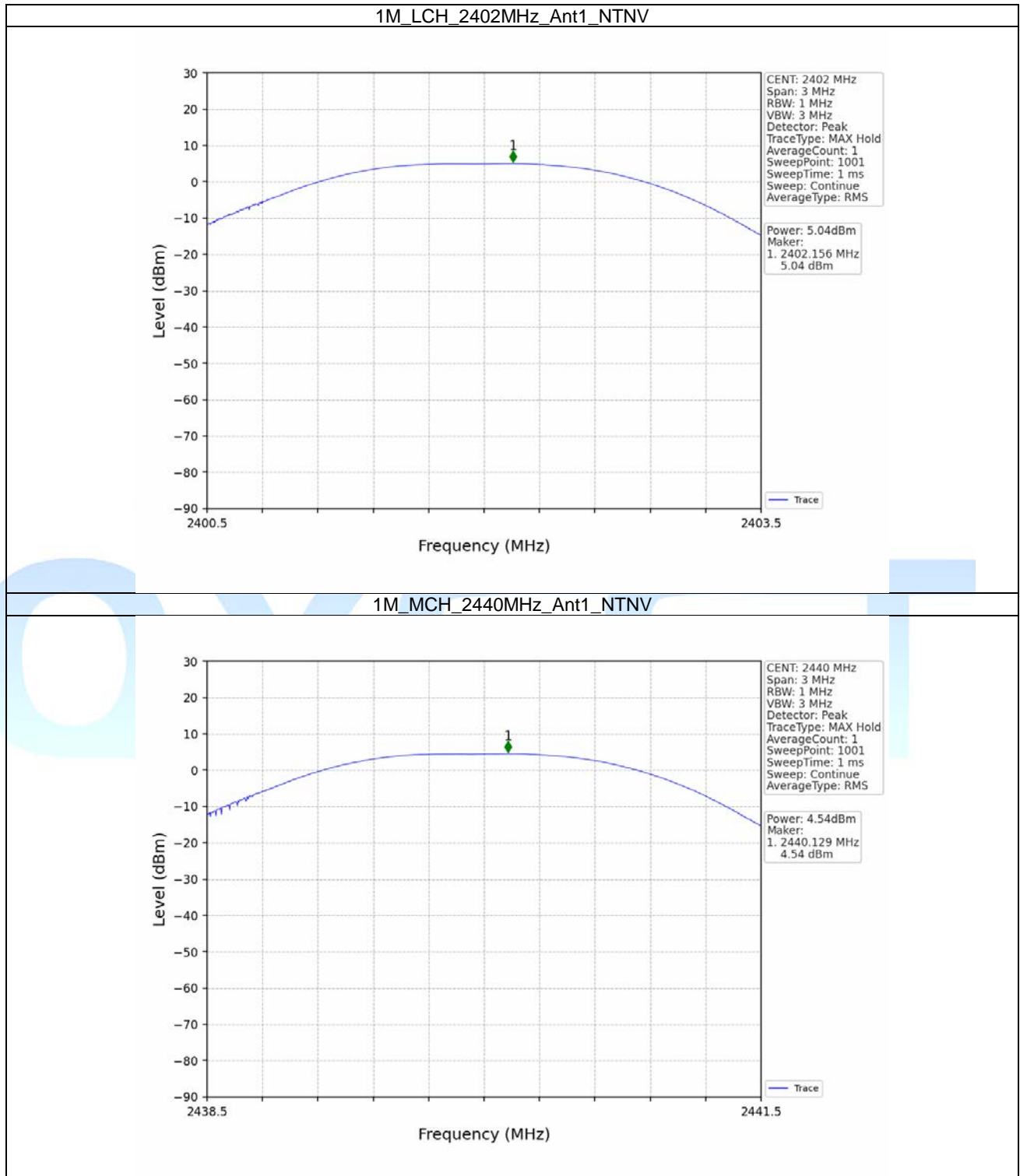
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	5.04	≤ 30	Pass
		2440	4.54	≤ 30	Pass
		2480	3.54	≤ 30	Pass
2M	SISO	2402	3.85	≤ 30	Pass
		2440	4.47	≤ 30	Pass
		2480	3.49	≤ 30	Pass

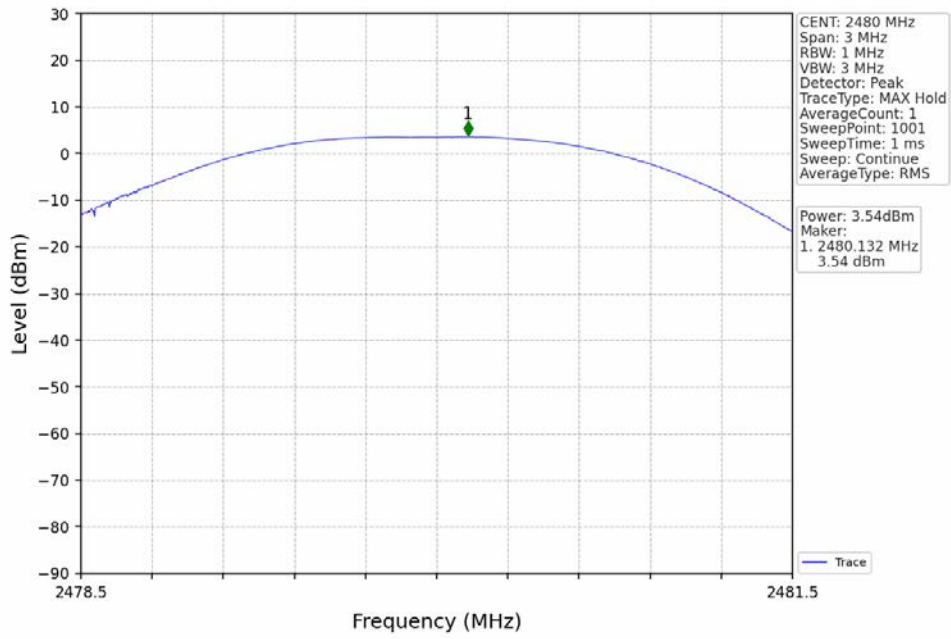
Note1: Antenna Gain: Ant1: 2.08dBi;

3.2 Test Graph

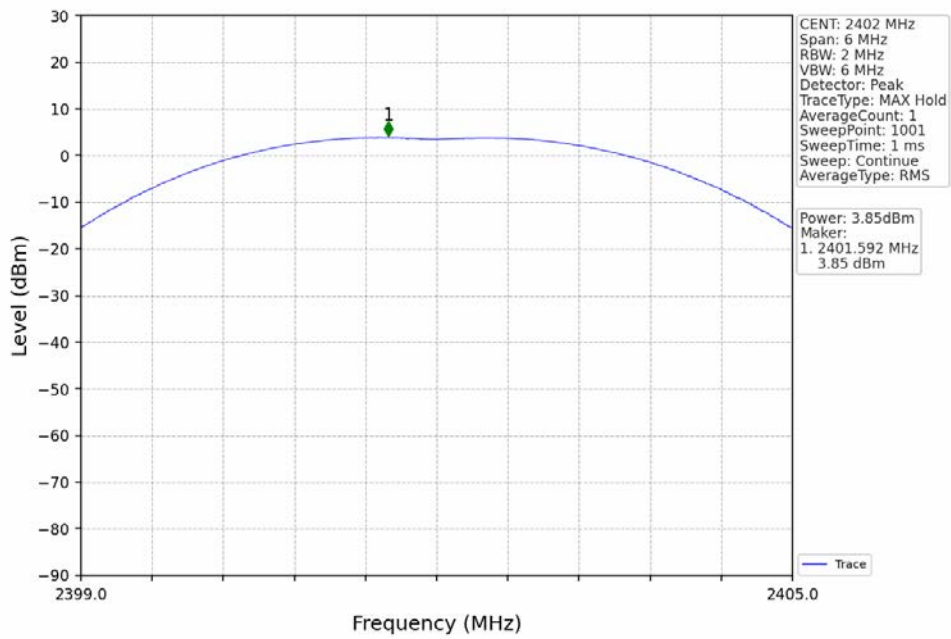
3.2.1 Power



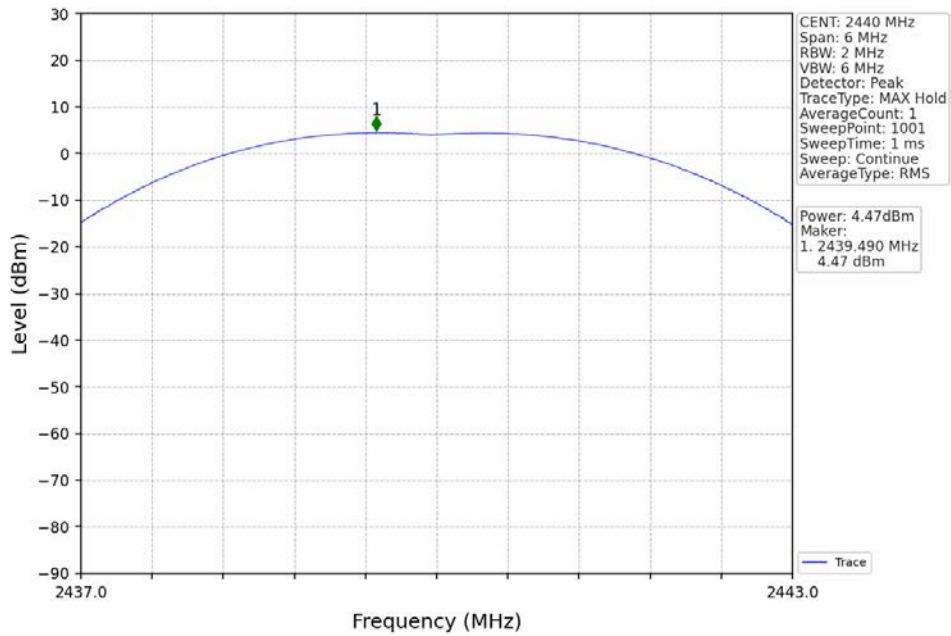
1M_HCH_2480MHz_Ant1_NTNV



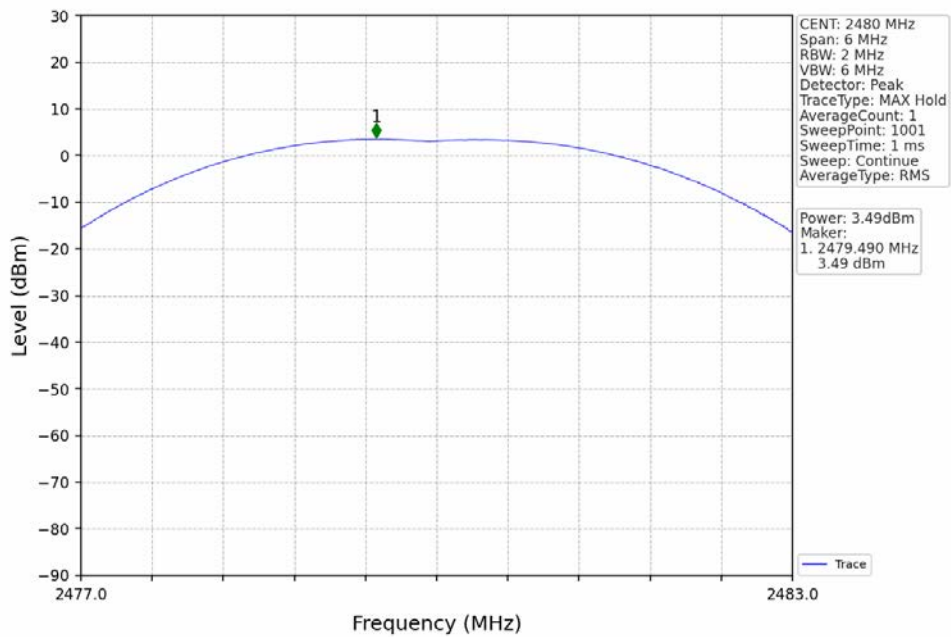
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



4. Maximum Power Spectral Density

4.1 Test Result

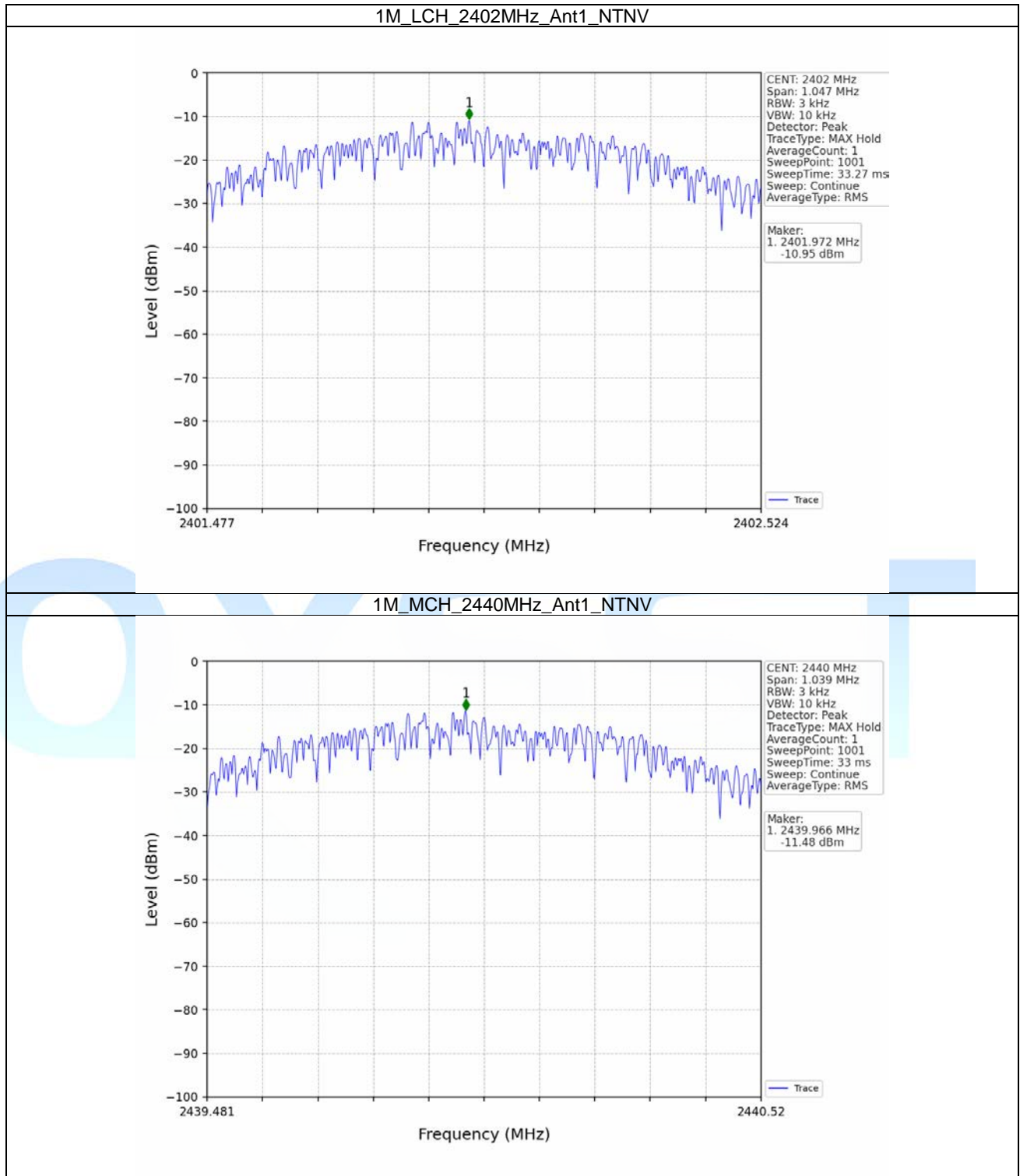
4.1.1 PSD

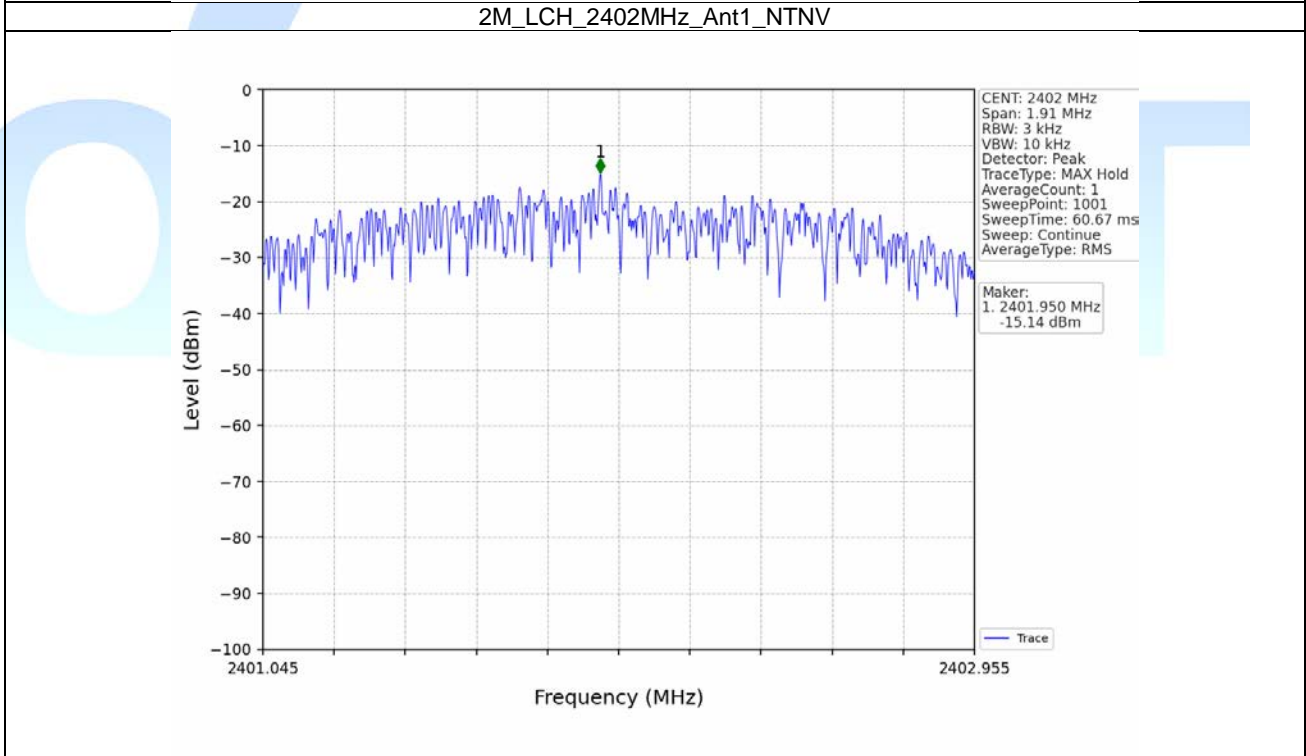
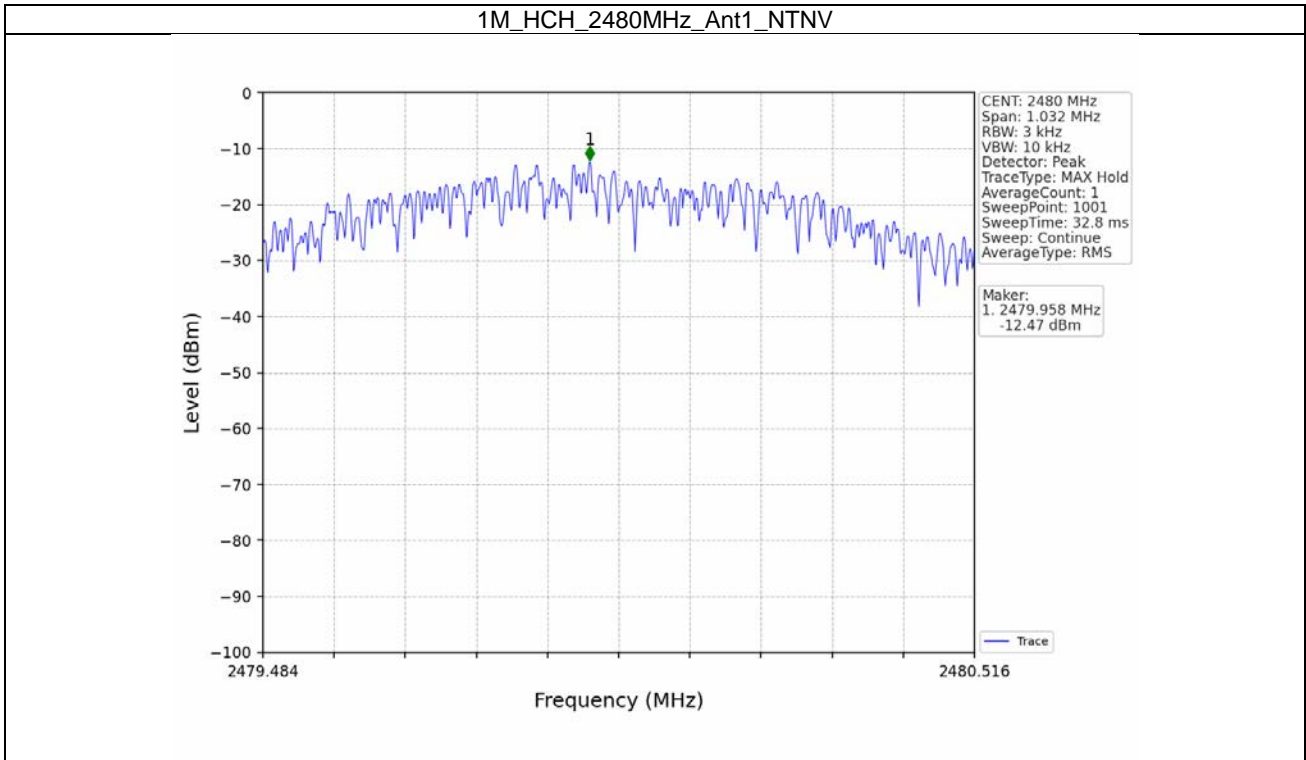
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-10.95	<=8	Pass
		2440	-11.48	<=8	Pass
		2480	-12.47	<=8	Pass
2M	SISO	2402	-15.14	<=8	Pass
		2440	-14.55	<=8	Pass
		2480	-15.66	<=8	Pass

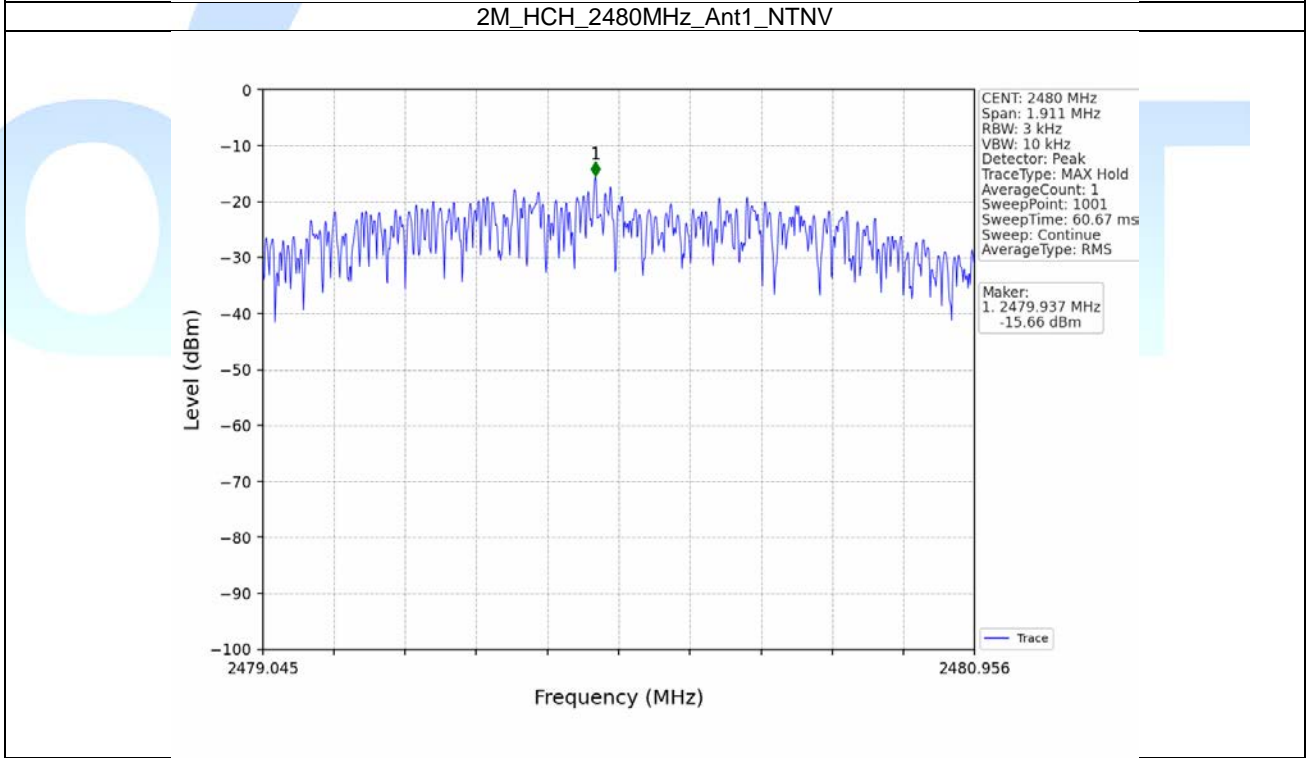
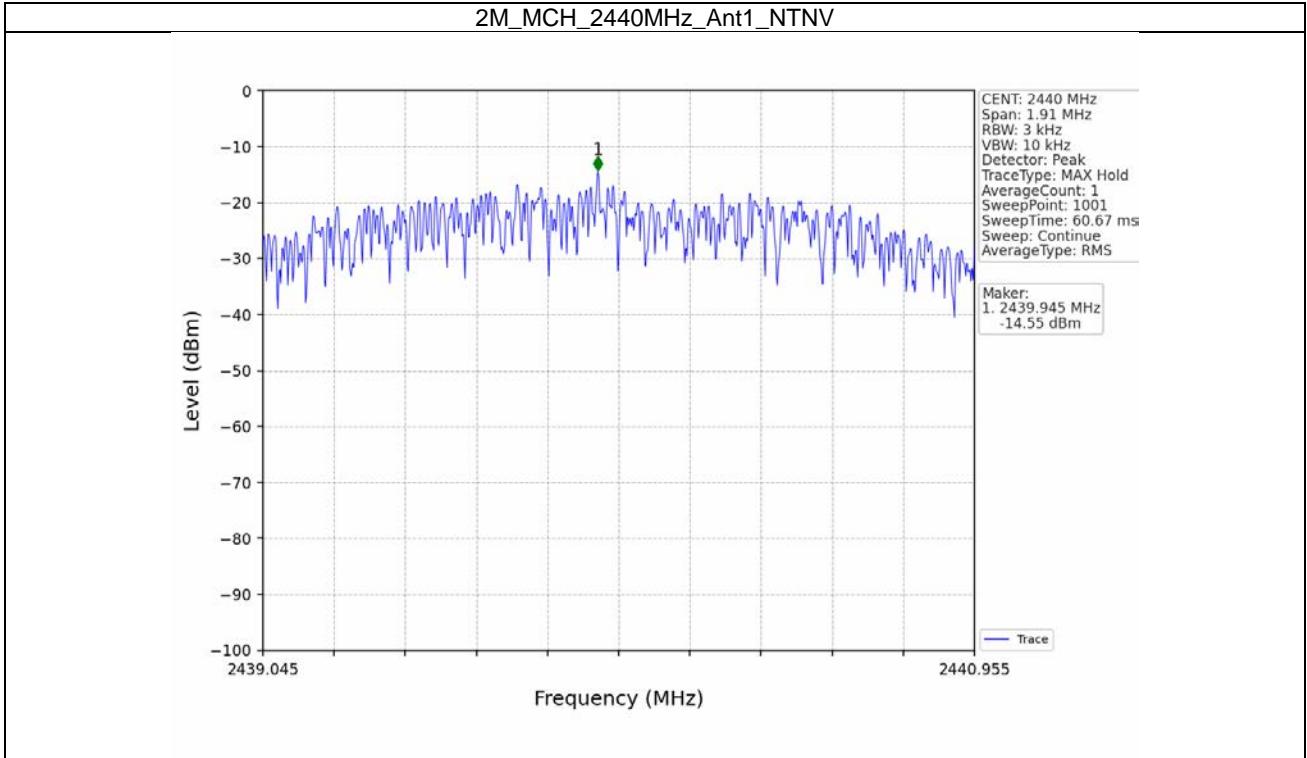
Note1: Antenna Gain: Ant1: 2.08dBi;

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	4.07
		2440	1	3.57
		2480	1	2.58
2M	SISO	2402	1	1.84
		2440	1	2.36
		2480	1	1.39

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

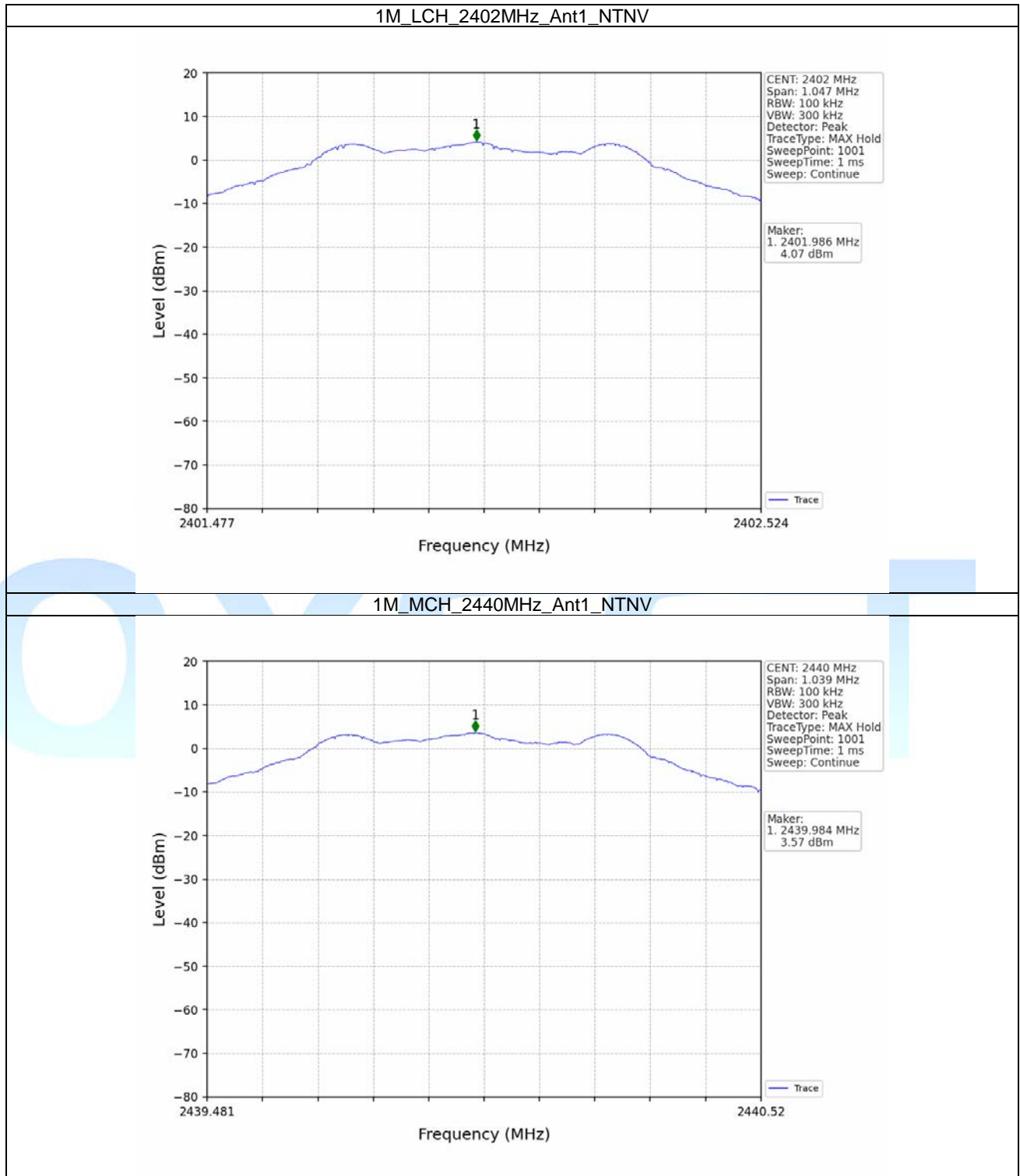
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	4.07	-15.93	Pass
		2440	1	4.07	-15.93	Pass
		2480	1	4.07	-15.93	Pass
2M	SISO	2402	1	2.36	-17.64	Pass
		2440	1	2.36	-17.64	Pass
		2480	1	2.36	-17.64	Pass

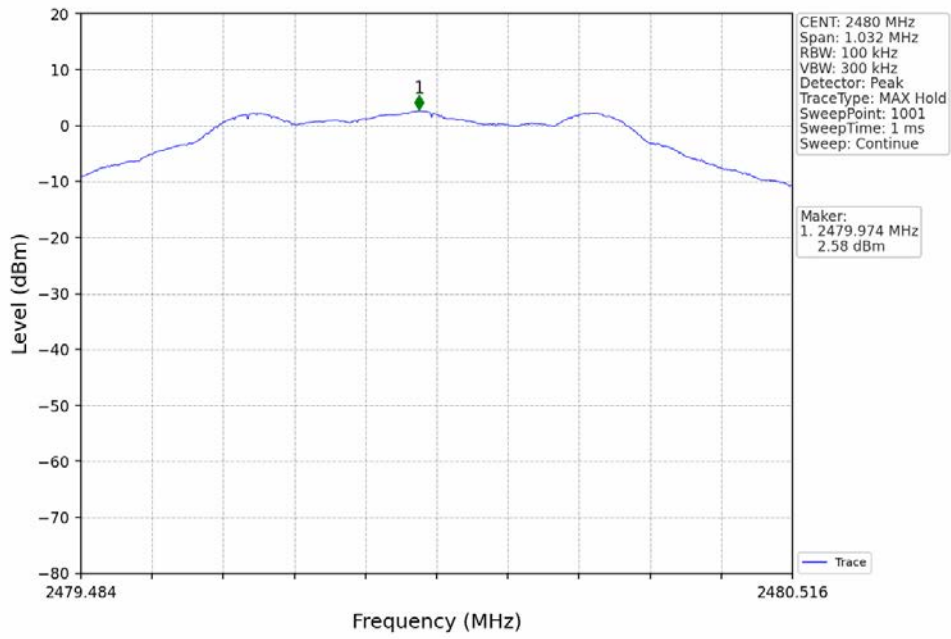
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

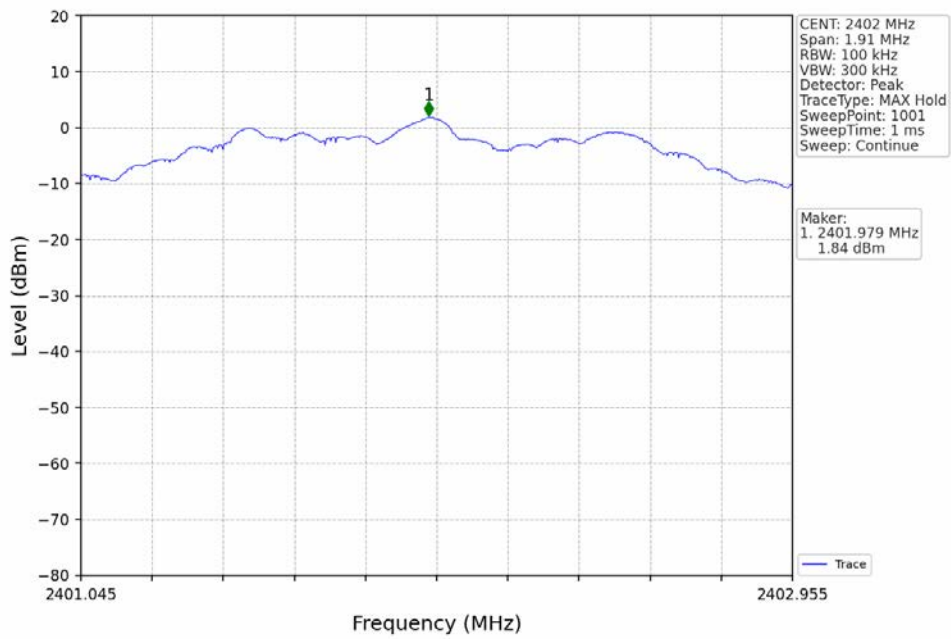
5.2.1 Ref



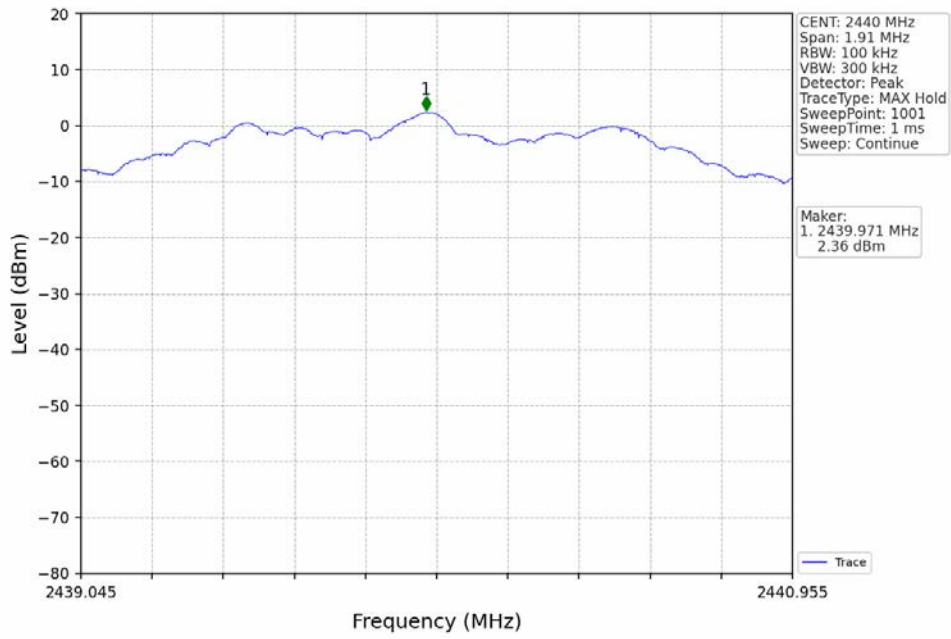
1M_HCH_2480MHz_Ant1_NTNV



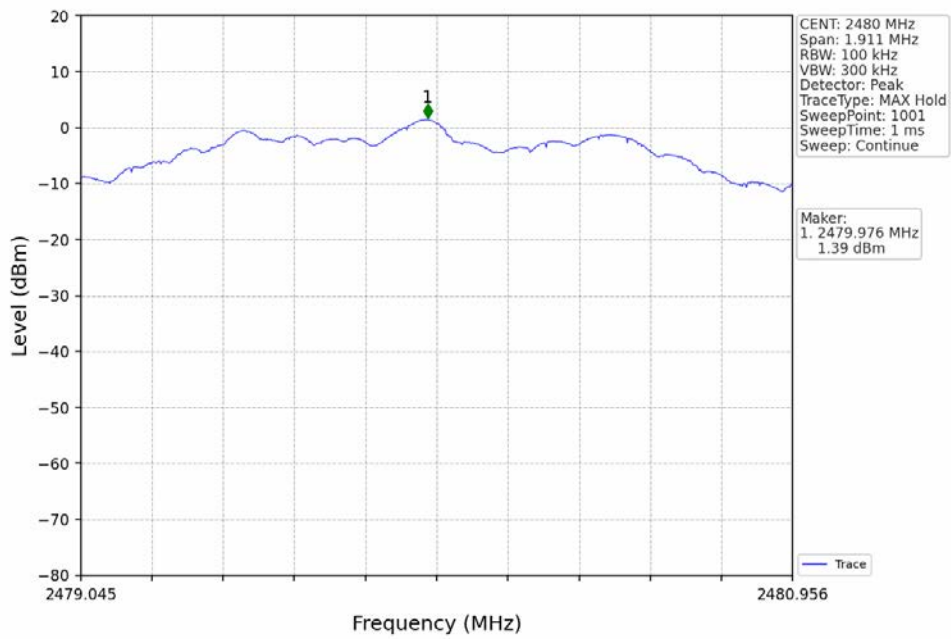
2M_LCH_2402MHz_Ant1_NTNV



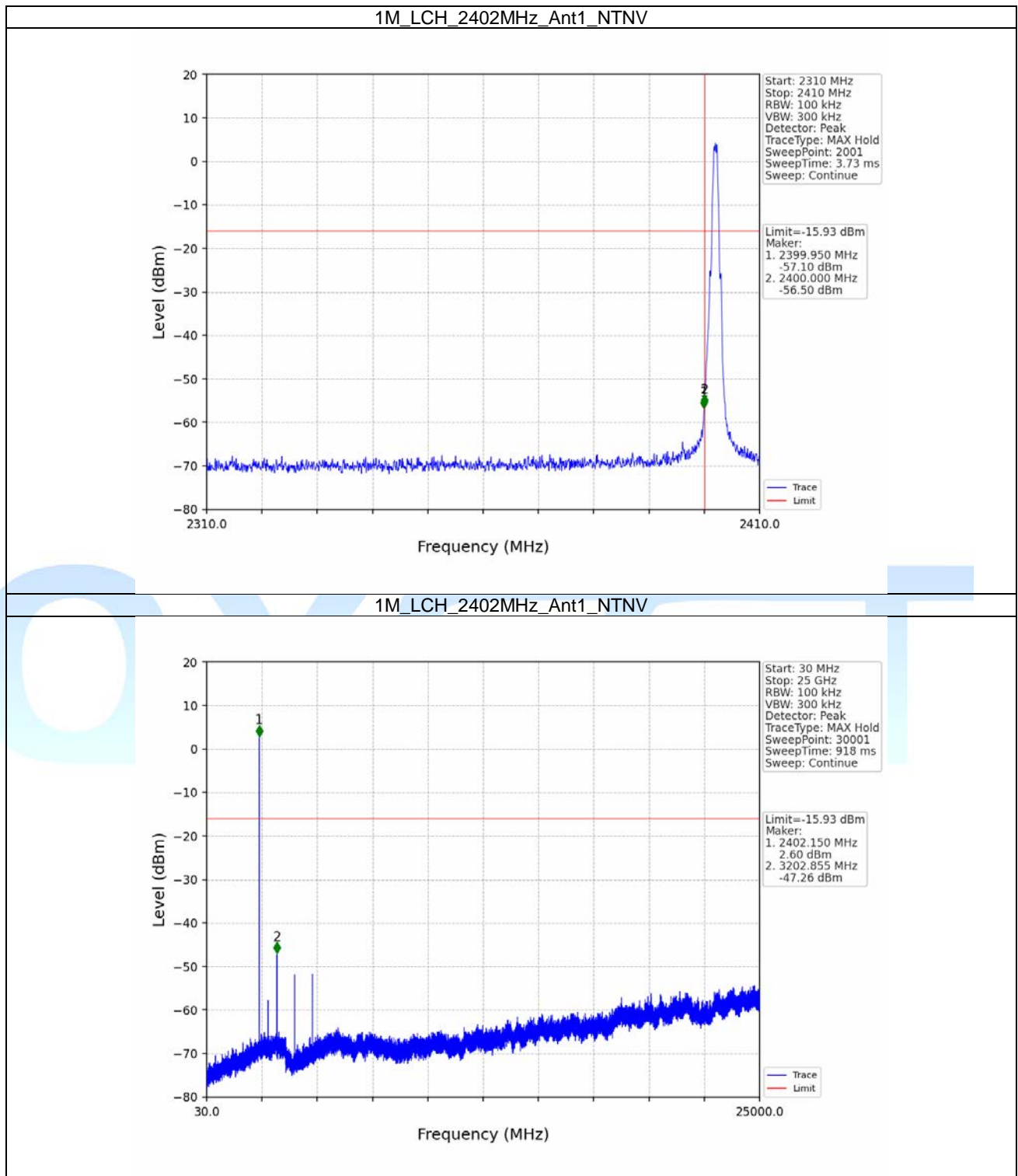
2M_MCH_2440MHz_Ant1_NTNV



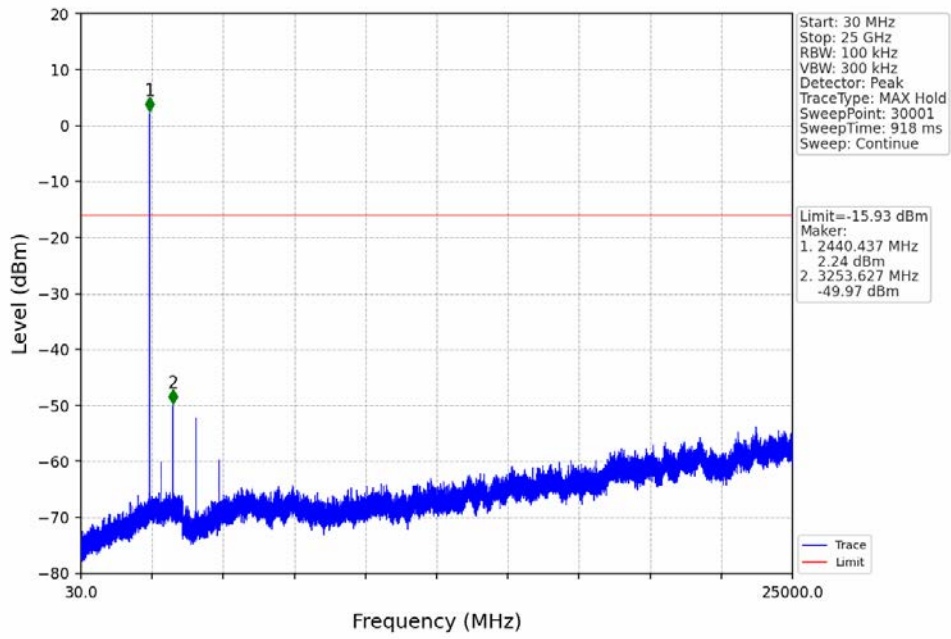
2M_HCH_2480MHz_Ant1_NTNV



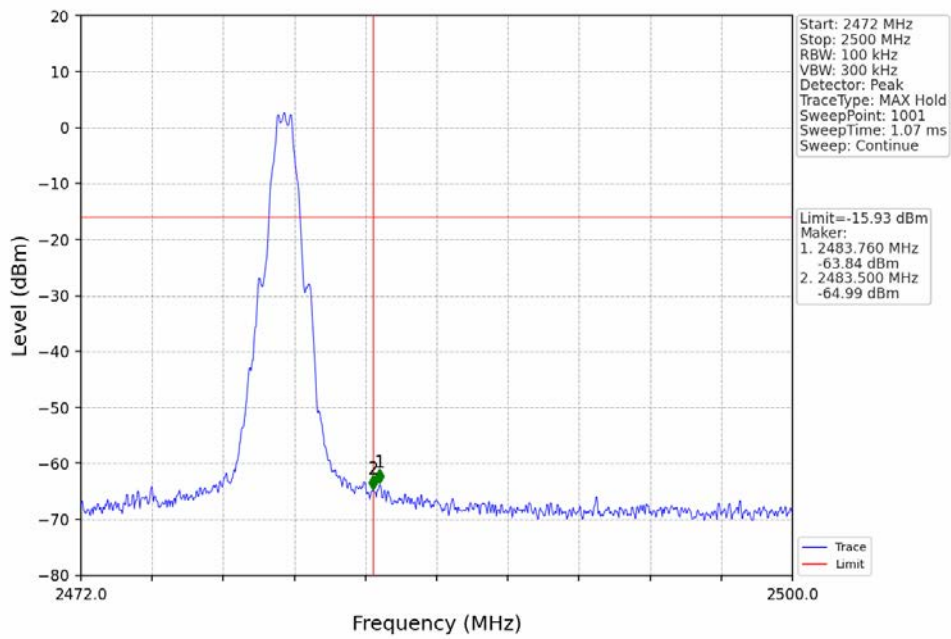
5.2.2 CSE



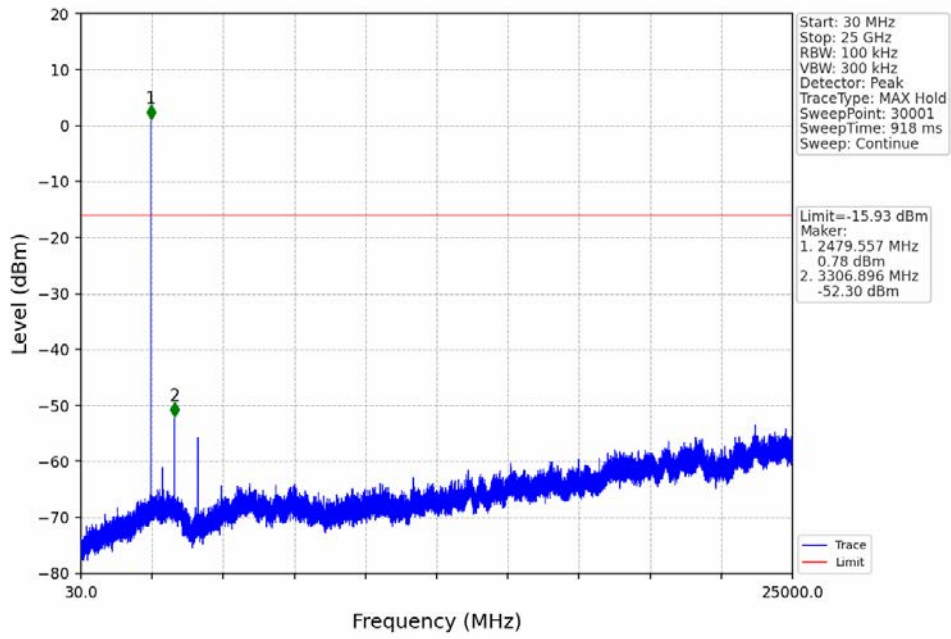
1M_MCH_2440MHz_Ant1_NTNV



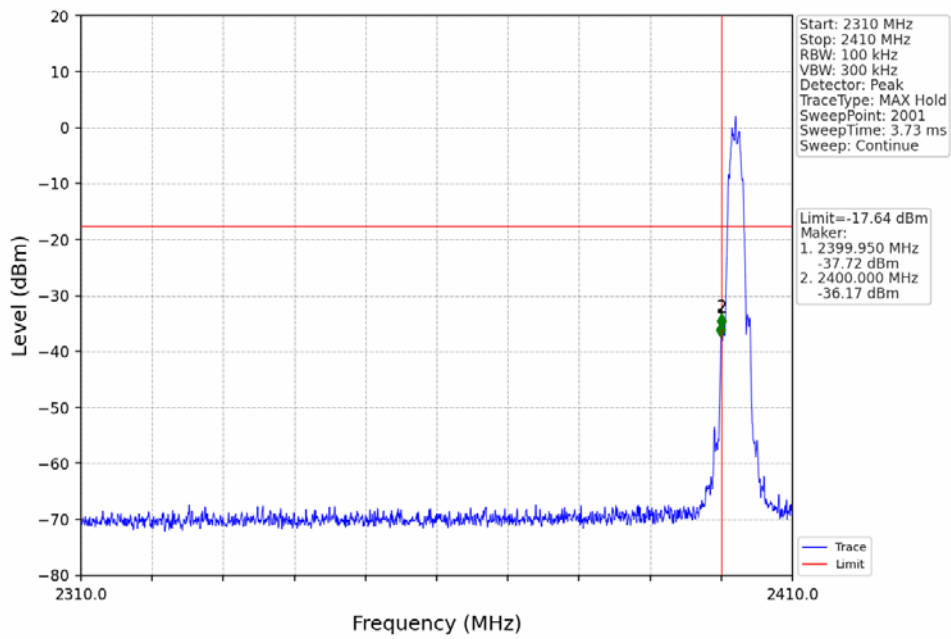
1M_HCH_2480MHz_Ant1_NTNV



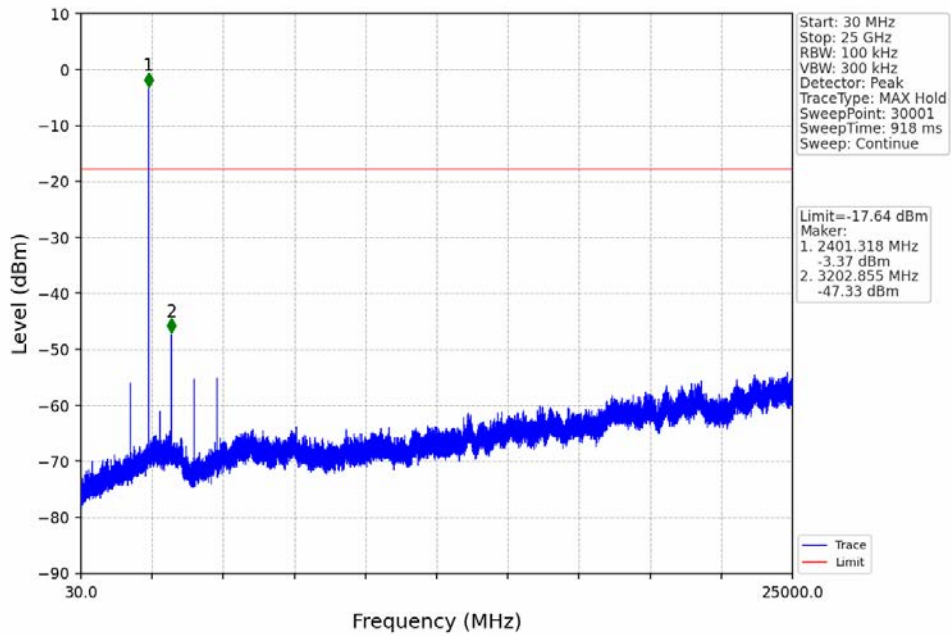
1M_HCH_2480MHz_Ant1_NTNV



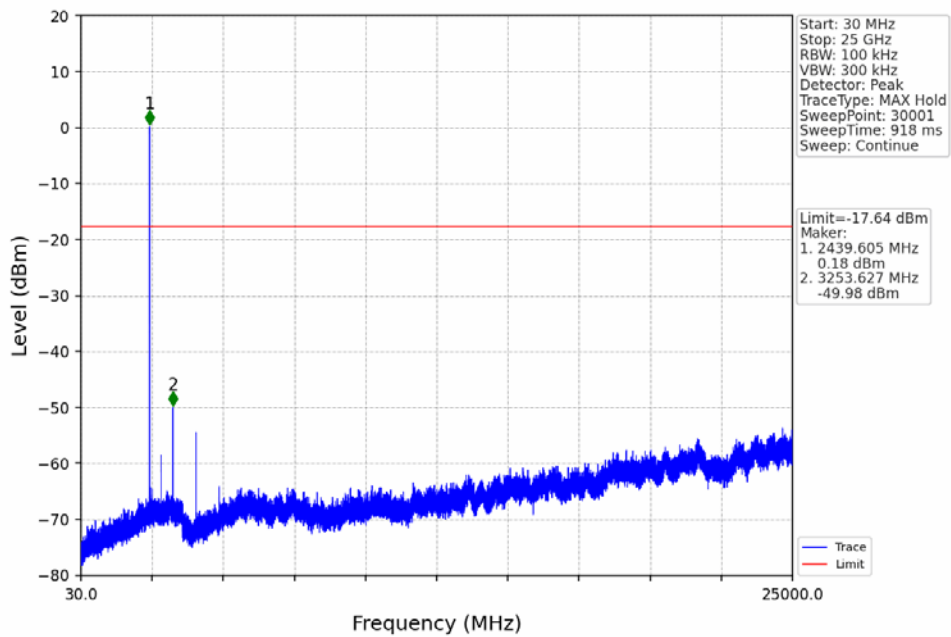
2M_LCH_2402MHz_Ant1_NTNV



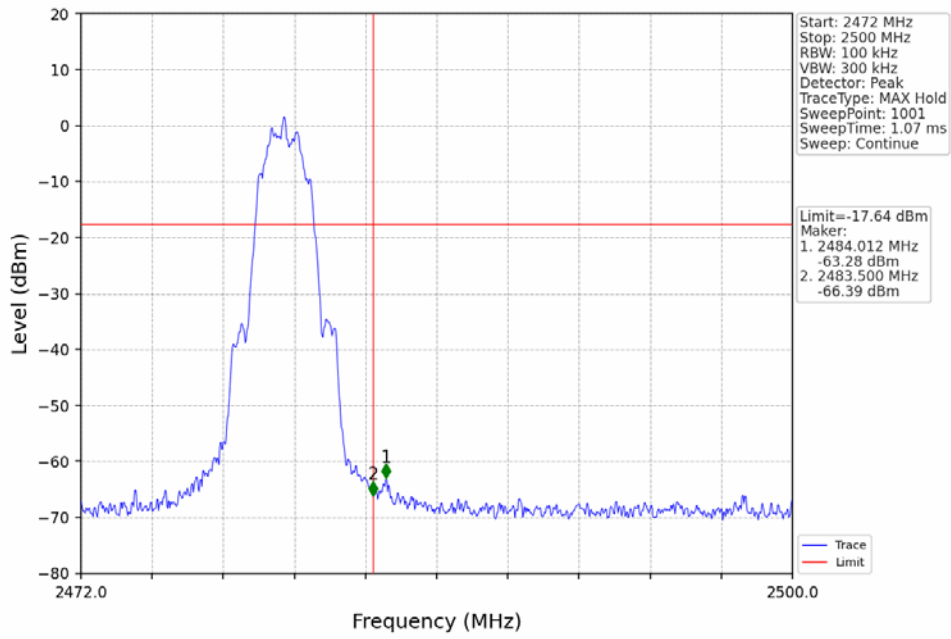
2M_LCH_2402MHz_Ant1_NTNV



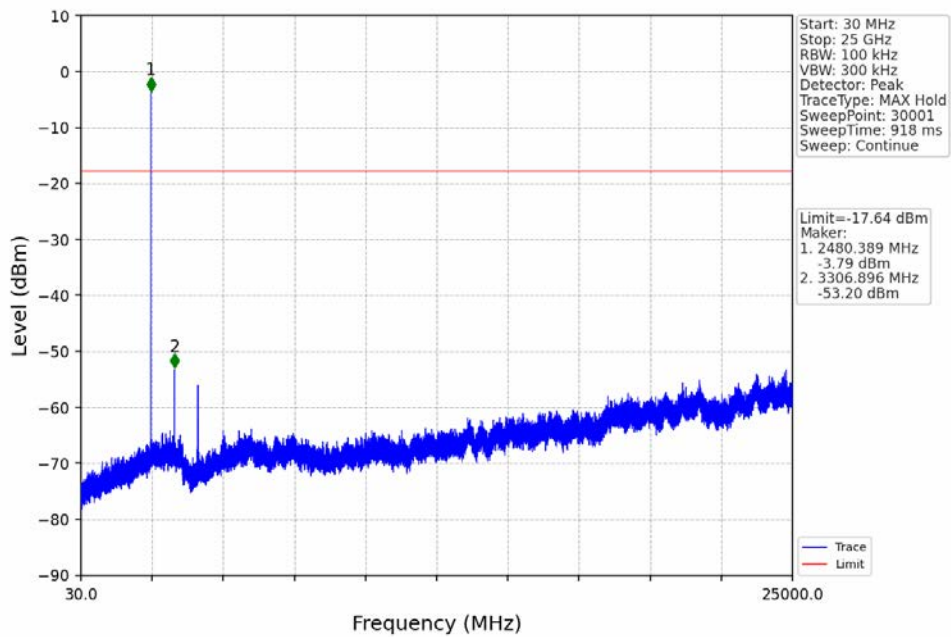
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



6. Unwanted Emissions In Restricted Frequency Bands

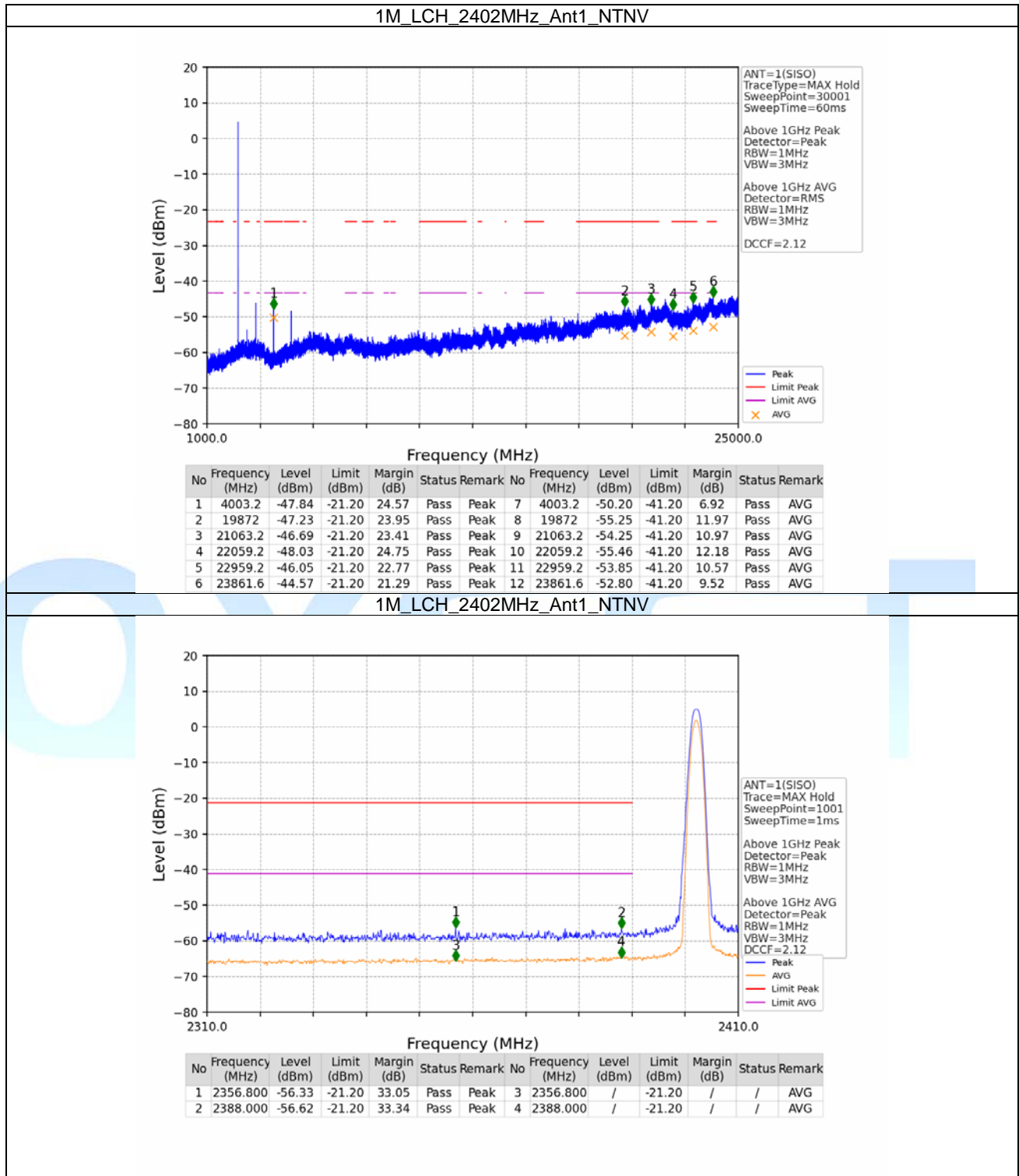
6.1 Test Result

6.1.1 RSE

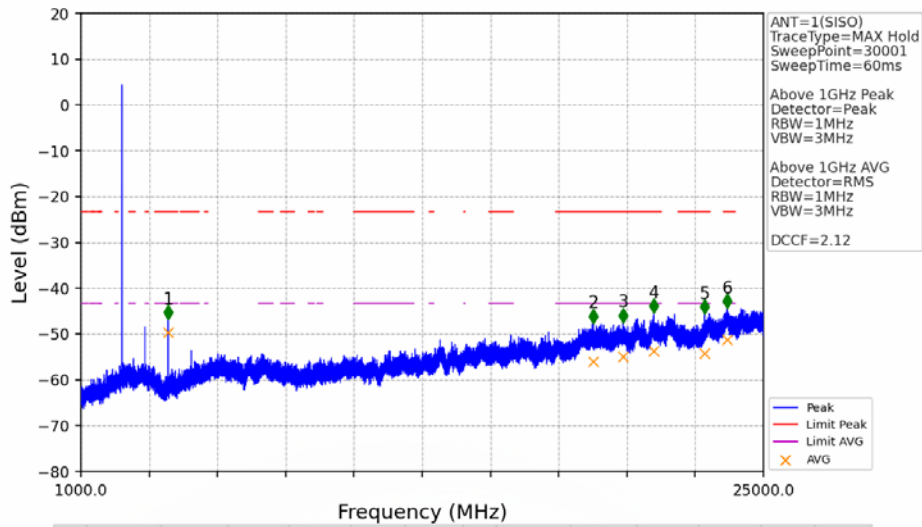
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
1M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test Graph		Pass
2M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test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

6.2 Test Graph

6.2.1 RSE

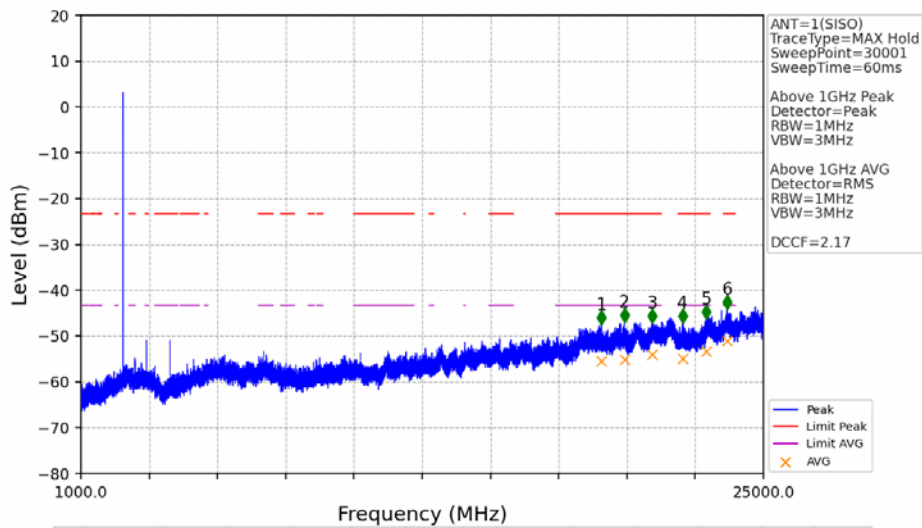


1M_MCH_2440MHz_Ant1_NTNV



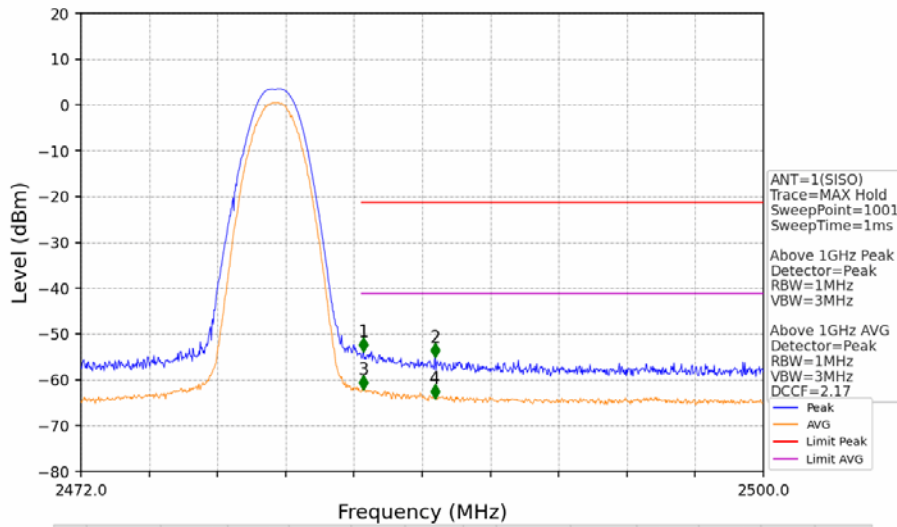
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4067.2	-46.82	-21.20	23.54	Pass	Peak	7	4067.2	-49.66	-41.20	6.38	Pass	AVG
2	19013.6	-47.65	-21.20	24.37	Pass	Peak	8	19013.6	-55.95	-41.20	12.67	Pass	AVG
3	20056.8	-47.46	-21.20	24.18	Pass	Peak	9	20056.8	-55.04	-41.20	11.76	Pass	AVG
4	21151.2	-45.51	-21.20	22.23	Pass	Peak	10	21151.2	-53.79	-41.20	10.51	Pass	AVG
5	22931.2	-45.62	-21.20	22.34	Pass	Peak	11	22931.2	-54.26	-41.20	10.98	Pass	AVG
6	23724	-44.38	-21.20	21.09	Pass	Peak	12	23724	-51.24	-41.20	7.96	Pass	AVG

1M_HCH_2480MHz_Ant1_NTNV



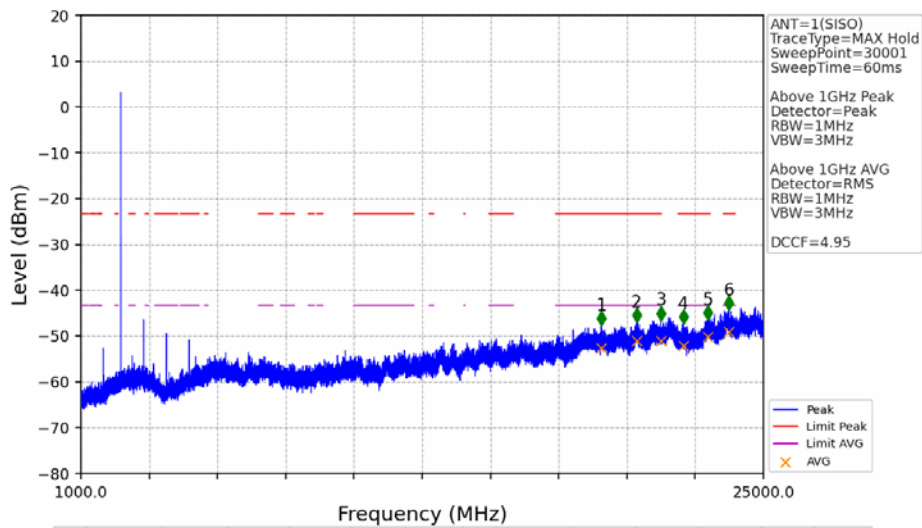
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	19297.6	-47.52	-21.20	24.24	Pass	Peak	7	19297.6	-55.54	-41.20	12.26	Pass	AVG
2	20108.8	-47.10	-21.20	23.82	Pass	Peak	8	20108.8	-55.05	-41.20	11.77	Pass	AVG
3	21077.6	-47.15	-21.20	23.87	Pass	Peak	9	21077.6	-54.04	-41.20	10.76	Pass	AVG
4	22161.6	-47.14	-21.20	23.86	Pass	Peak	10	22161.6	-54.96	-41.20	11.68	Pass	AVG
5	22986.4	-46.36	-21.20	23.08	Pass	Peak	11	22986.4	-53.33	-41.20	10.05	Pass	AVG
6	23724.8	-44.16	-21.20	20.88	Pass	Peak	12	23724.8	-51.06	-41.20	7.78	Pass	AVG

1M_HCH_2480MHz_Ant1_NTNV



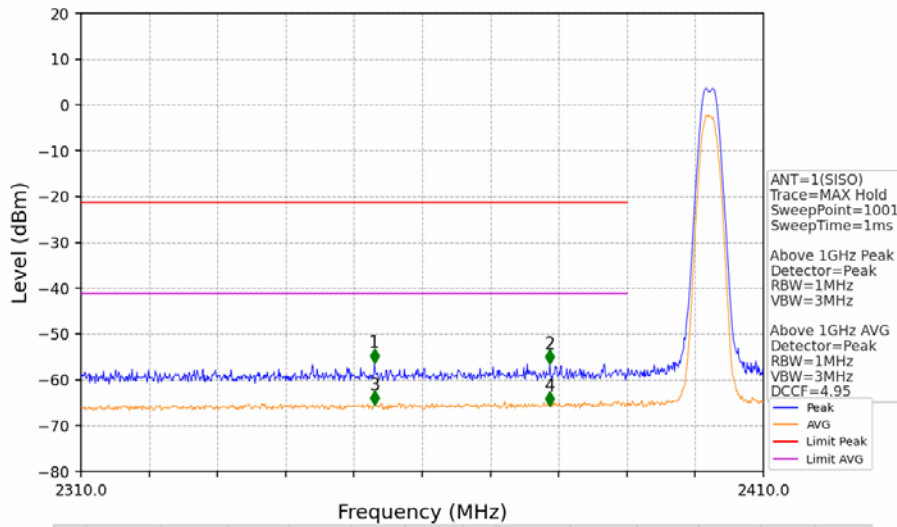
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2483.592	-53.91	-21.20	30.63	Pass	Peak	3	2483.592	/	-21.20	/	/	AVG
2	2486.532	-55.17	-21.20	31.89	Pass	Peak	4	2486.532	/	-21.20	/	/	AVG

2M_LCH_2402MHz_Ant1_NTNV



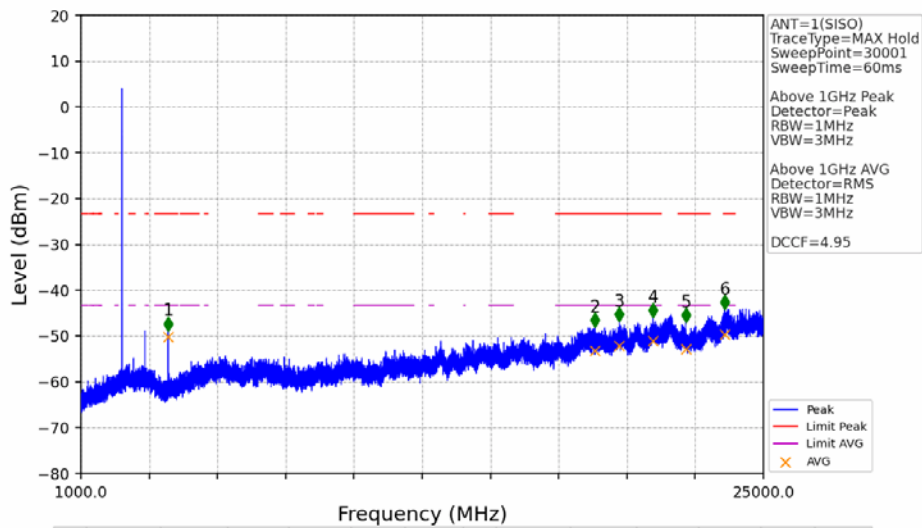
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	19299.2	-47.77	-21.20	24.49	Pass	Peak	7	19299.2	-52.71	-41.20	9.43	Pass	AVG
2	20535.2	-47.07	-21.20	23.79	Pass	Peak	8	20535.2	-51.16	-41.20	7.88	Pass	AVG
3	21383.2	-46.60	-21.20	23.32	Pass	Peak	9	21383.2	-51.13	-41.20	7.85	Pass	AVG
4	22183.2	-47.40	-21.20	24.12	Pass	Peak	10	22183.2	-52.13	-41.20	8.85	Pass	AVG
5	23028.8	-46.54	-21.20	23.26	Pass	Peak	11	23028.8	-50.25	-41.20	6.97	Pass	AVG
6	23781.6	-44.39	-21.20	21.11	Pass	Peak	12	23781.6	-49.12	-41.20	5.83	Pass	AVG

2M_LCH_2402MHz_Ant1_NTNV



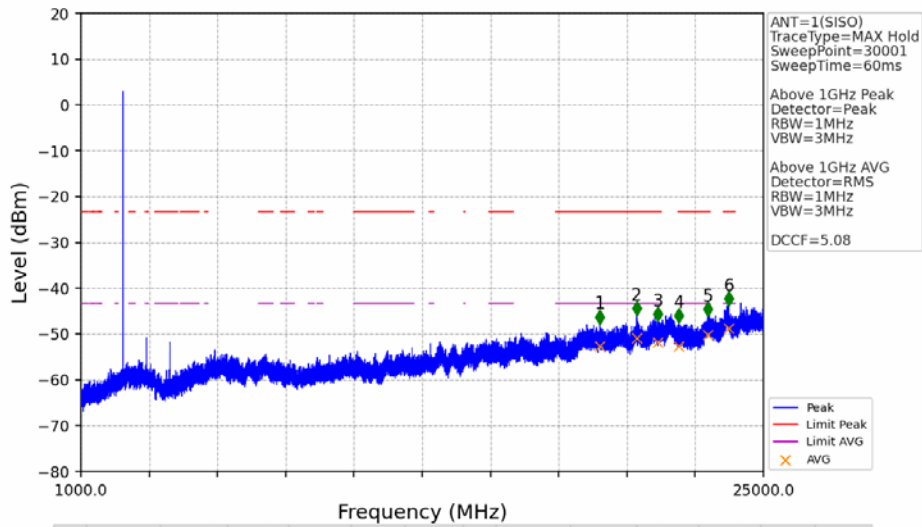
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2353.000	-56.30	-21.20	33.02	Pass	Peak	3	2353.000	/	-21.20	/	/	AVG
2	2378.700	-56.49	-21.20	33.21	Pass	Peak	4	2378.700	/	-21.20	/	/	AVG

2M_MCH_2440MHz_Ant1_NTNV



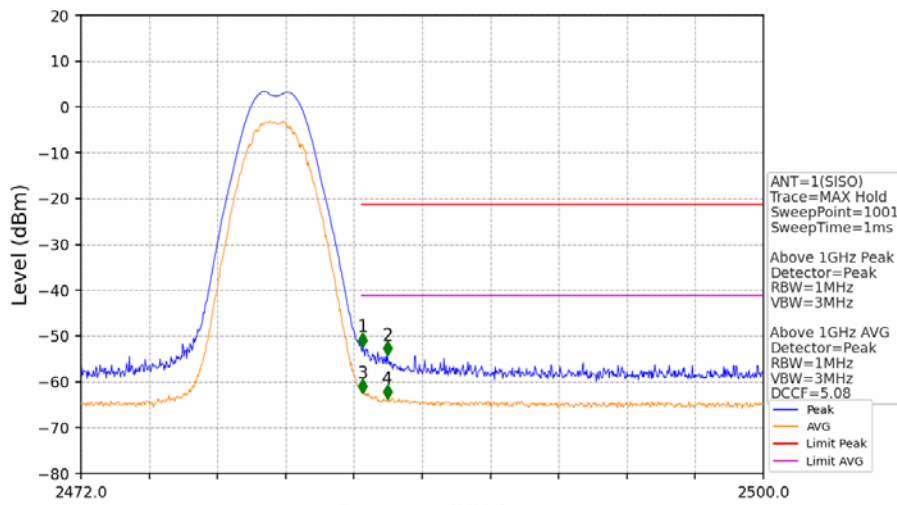
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4067.2	-48.88	-21.20	25.60	Pass	Peak	7	4067.2	-50.22	-41.20	6.94	Pass	AVG
2	19070.4	-48.15	-21.20	24.87	Pass	Peak	8	19070.4	-53.23	-41.20	9.95	Pass	AVG
3	19936	-46.86	-21.20	23.58	Pass	Peak	9	19936	-52.18	-41.20	8.90	Pass	AVG
4	21120	-45.96	-21.20	22.68	Pass	Peak	10	21120	-51.01	-41.20	7.73	Pass	AVG
5	22263.2	-46.99	-21.20	23.71	Pass	Peak	11	22263.2	-52.77	-41.20	9.49	Pass	AVG
6	23640	-44.26	-21.20	20.98	Pass	Peak	12	23640	-49.61	-41.20	6.33	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	19249.6	-47.82	-21.20	24.54	Pass	Peak	7	19249.6	-52.60	-41.20	9.32	Pass	AVG
2	20532.8	-46.04	-21.20	22.76	Pass	Peak	8	20532.8	-50.86	-41.20	7.58	Pass	AVG
3	21287.2	-47.21	-21.20	23.93	Pass	Peak	9	21287.2	-51.71	-41.20	8.43	Pass	AVG
4	22029.6	-47.59	-21.20	24.31	Pass	Peak	10	22029.6	-52.70	-41.20	9.42	Pass	AVG
5	23043.2	-46.12	-21.20	22.84	Pass	Peak	11	23043.2	-50.14	-41.20	6.86	Pass	AVG
6	23775.2	-43.84	-21.20	20.56	Pass	Peak	12	23775.2	-48.83	-41.20	5.55	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	2483.564	-52.42	-21.20	29.14	Pass	Peak	3	2483.564	/	-21.20	/	/	AVG
2	2484.572	-54.30	-21.20	31.02	Pass	Peak	4	2484.572	/	-21.20	/	/	AVG

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