



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK260601003A01E0101

RF Test Report

For BTEK260601003A01E01

Project No.:	BTEK260601003A01E0101
Test Conditions:	22.1℃, 56%, 101.6kPa
Test Engineer:	Zora
Test Date:	2026-06-25



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

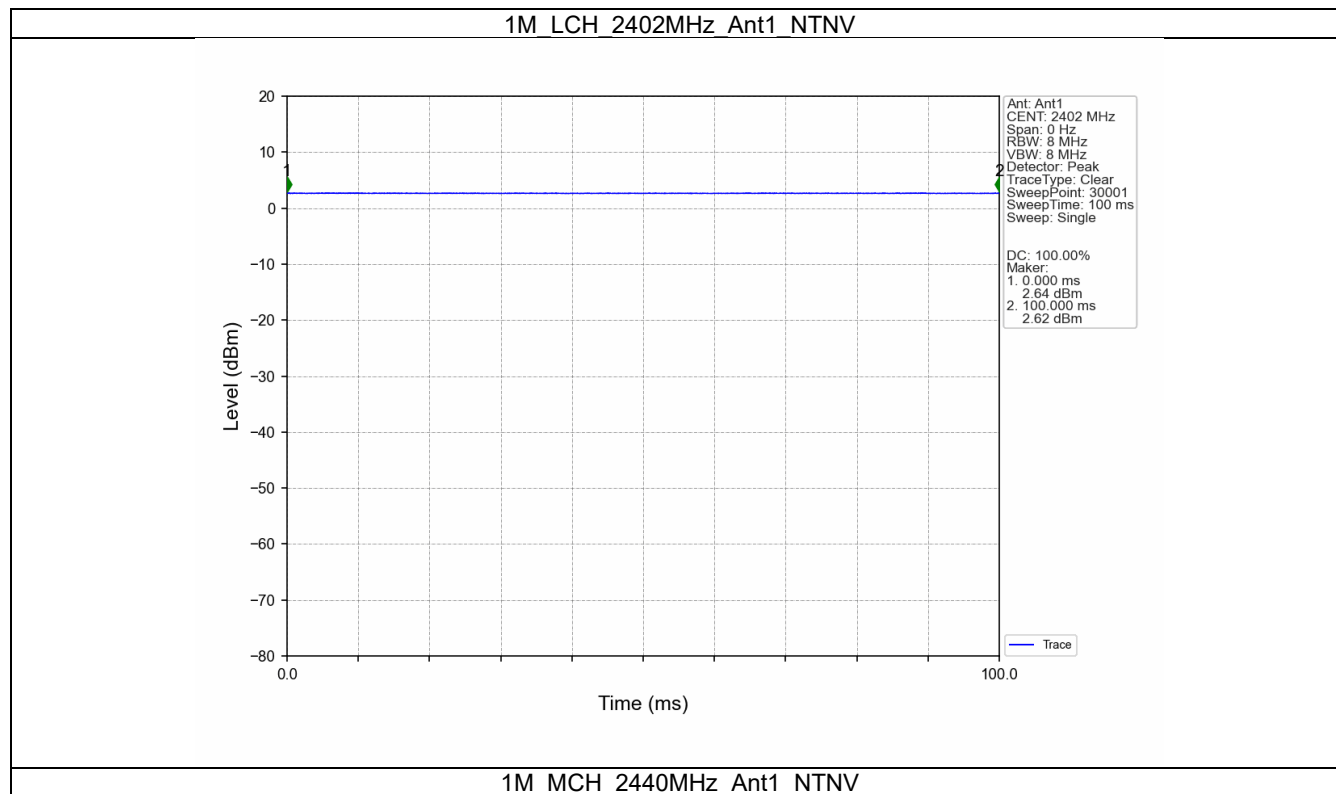
1.1.1 Ant1

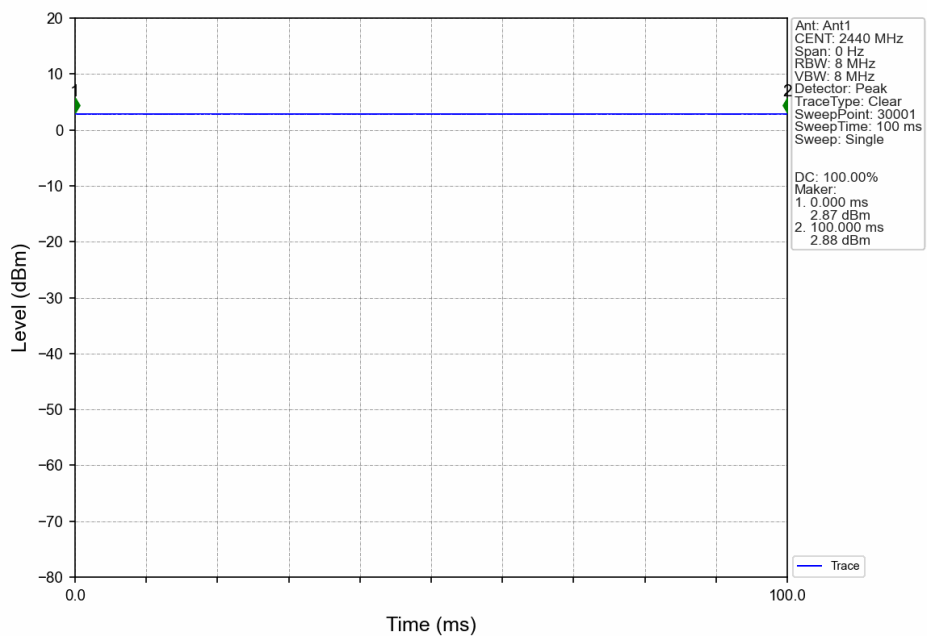
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00
2M	SISO	2402	100.000	100.000	100.00	0.00	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

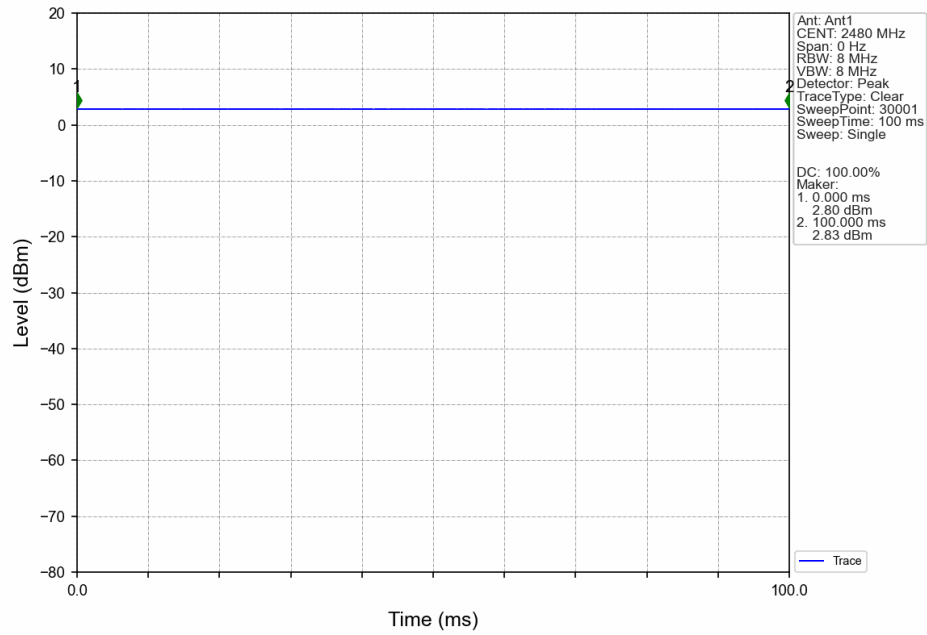
1.2.1 Ant1



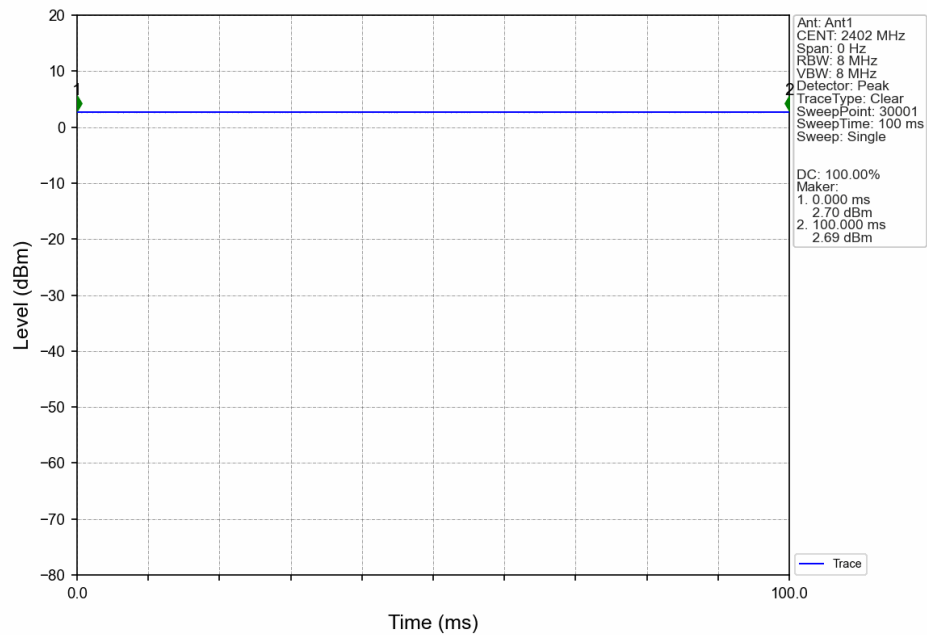




1M_HCH_2480MHz_Ant1_NTNV

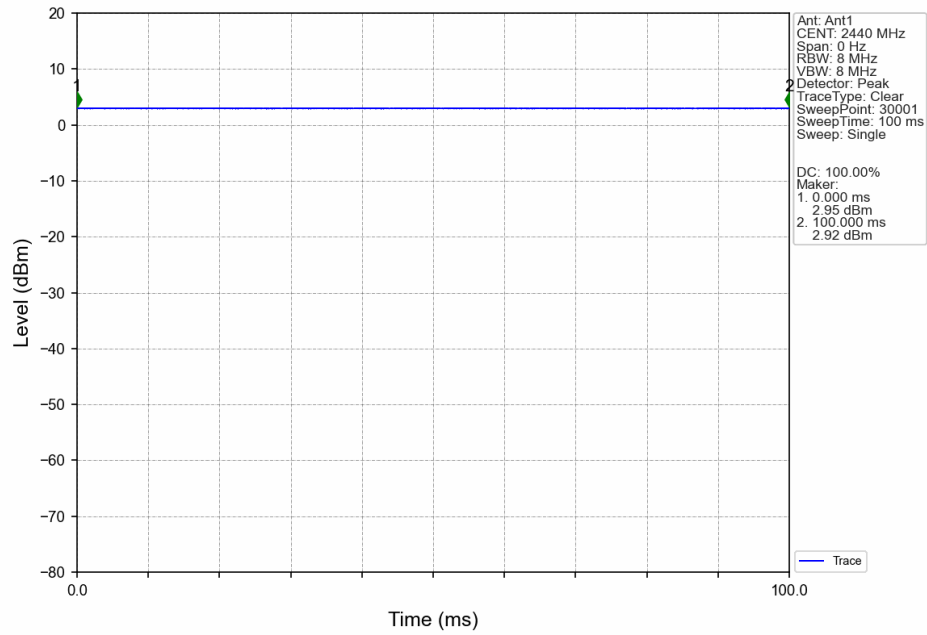


2M_LCH_2402MHz_Ant1_NTNV

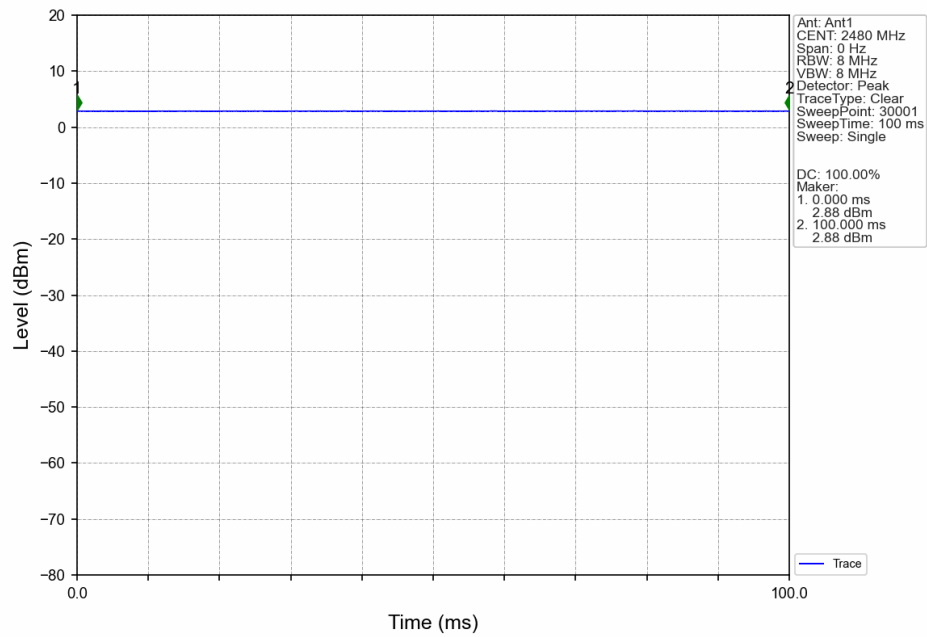




2M_MCH_2440MHz_Ant1_NTNV



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	1.099	/	Pass
		2440	1	1.060	/	Pass
		2480	1	1.074	/	Pass
2M	SISO	2402	1	2.293	/	Pass
		2440	1	2.208	/	Pass
		2480	1	2.243	/	Pass

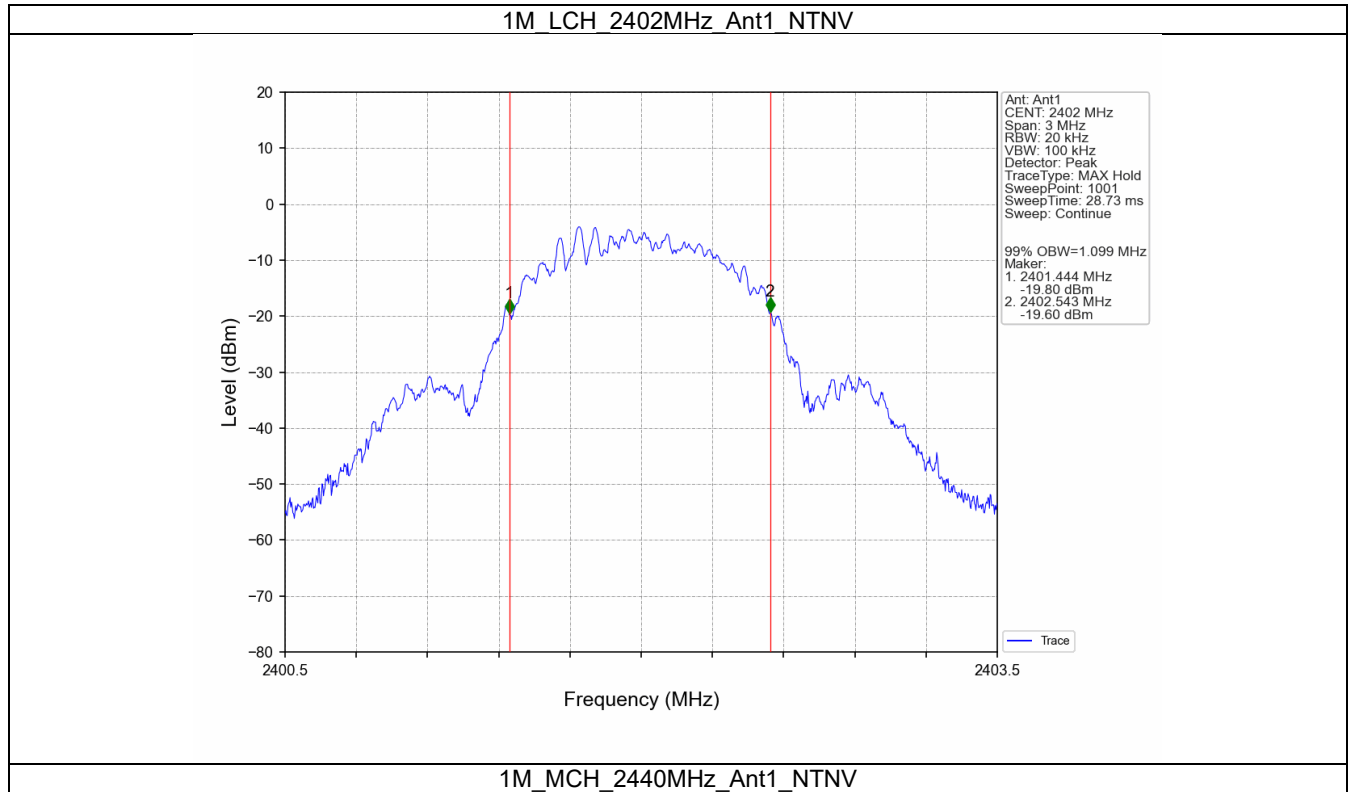
2.1.2 6dB BW

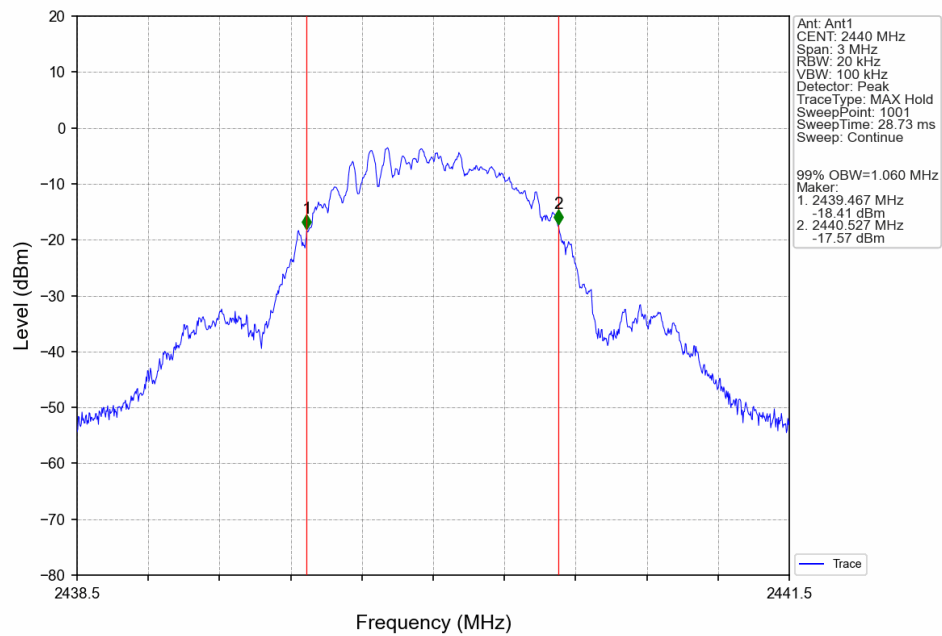
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.785	≥ 0.5	Pass
		2440	1	0.772	≥ 0.5	Pass
		2480	1	0.780	≥ 0.5	Pass
2M	SISO	2402	1	1.549	≥ 0.5	Pass
		2440	1	1.418	≥ 0.5	Pass
		2480	1	1.430	≥ 0.5	Pass



2.2 Test Graph

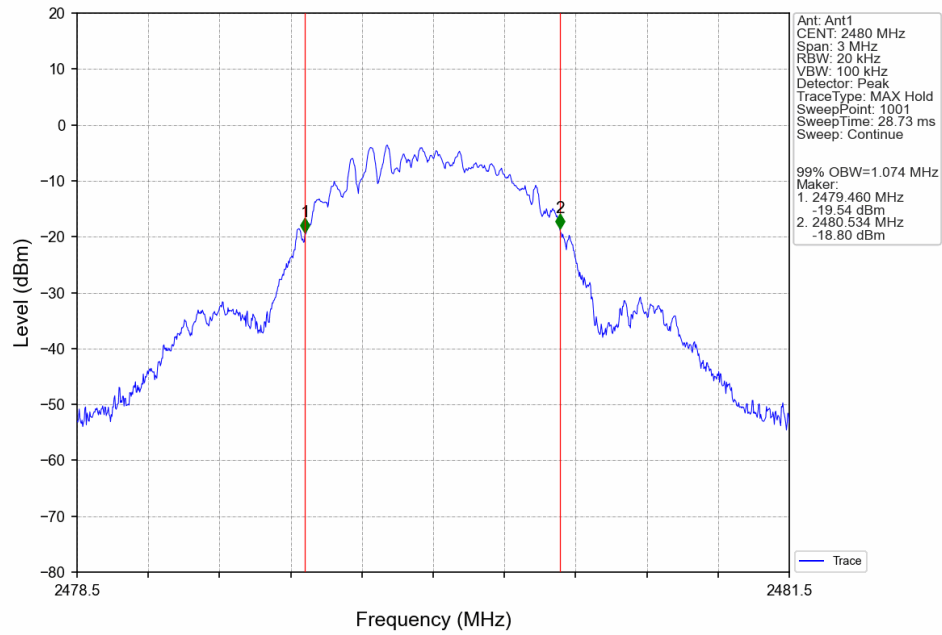
2.2.1 OBW



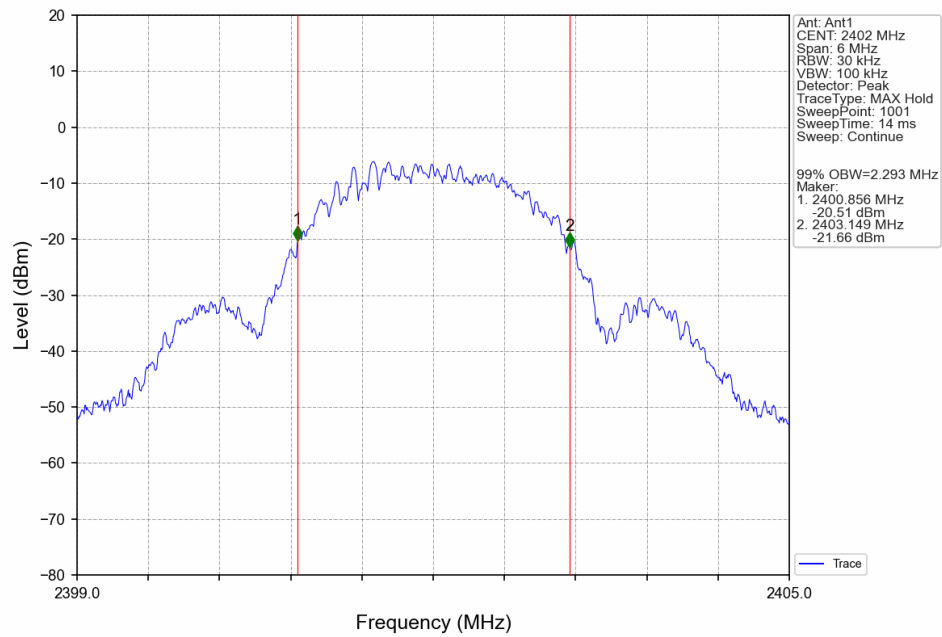




1M_HCH_2480MHz_Ant1_NTNV

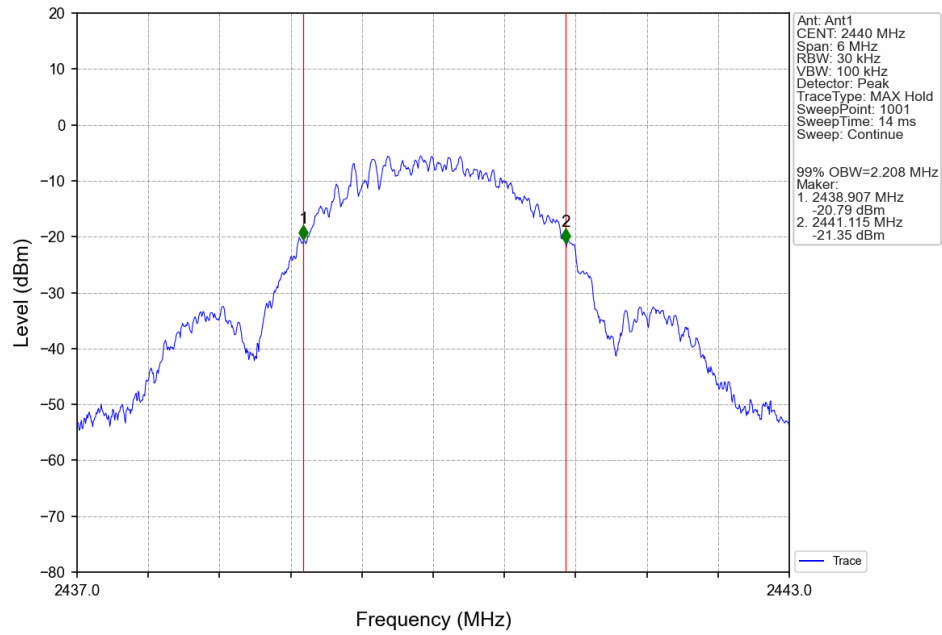


2M_LCH_2402MHz_Ant1_NTNV

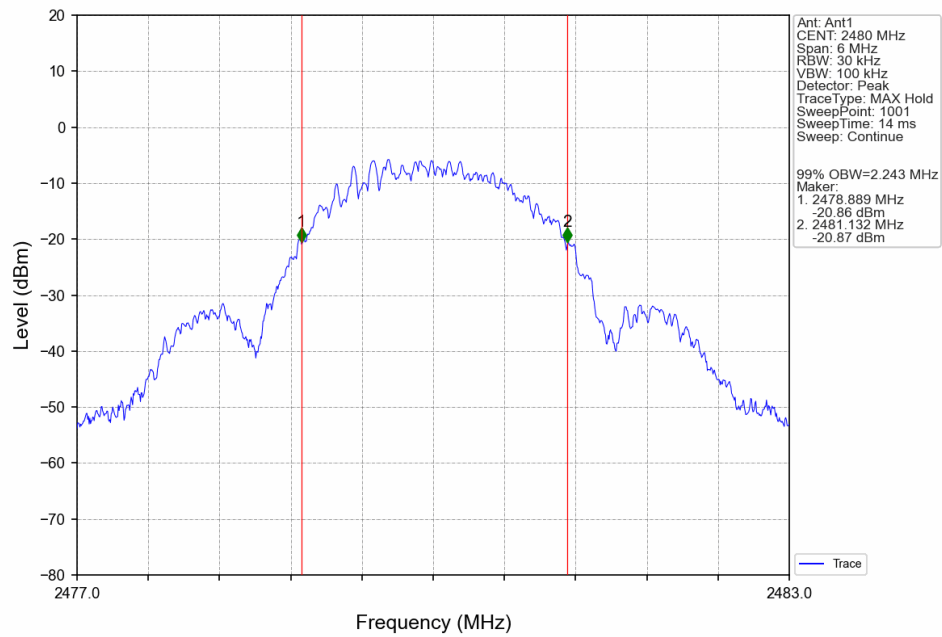




2M_MCH_2440MHz_Ant1_NTNV

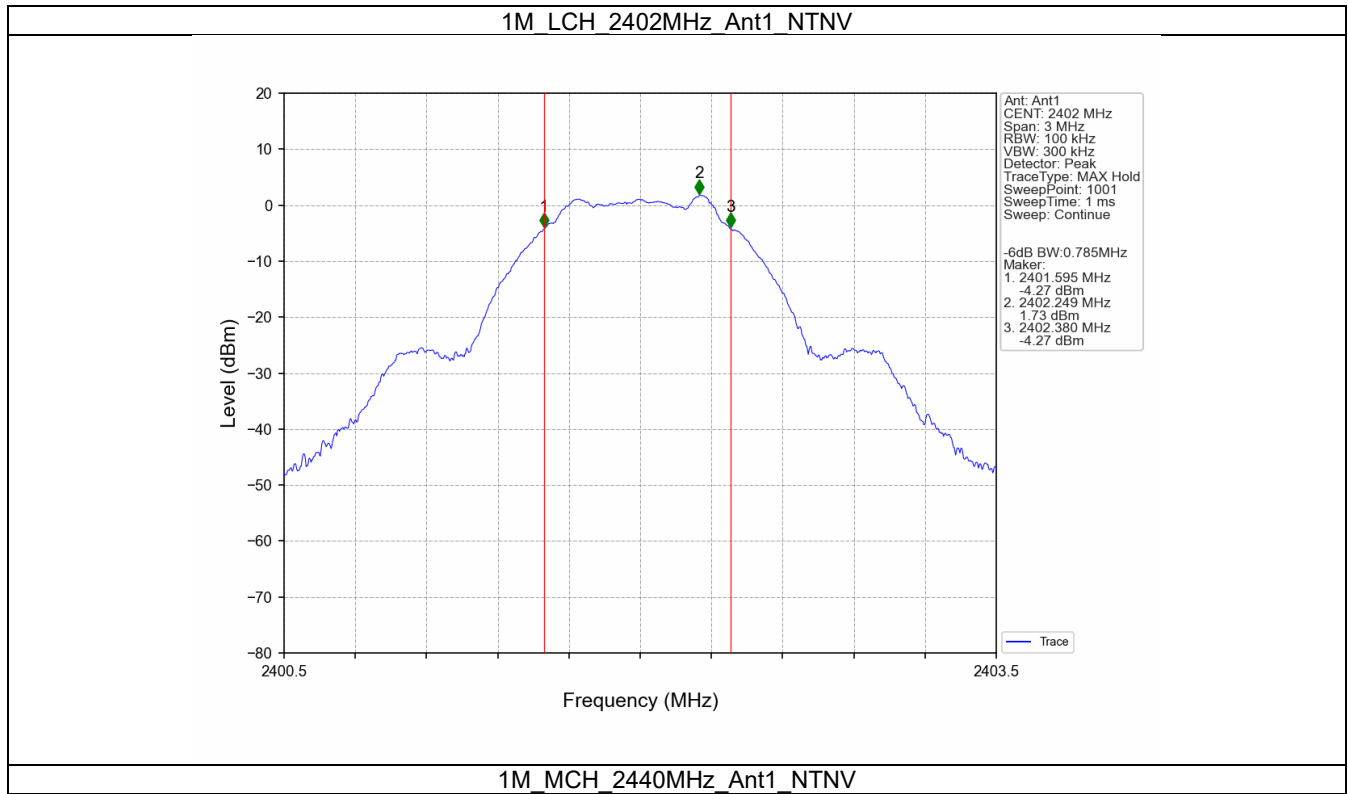


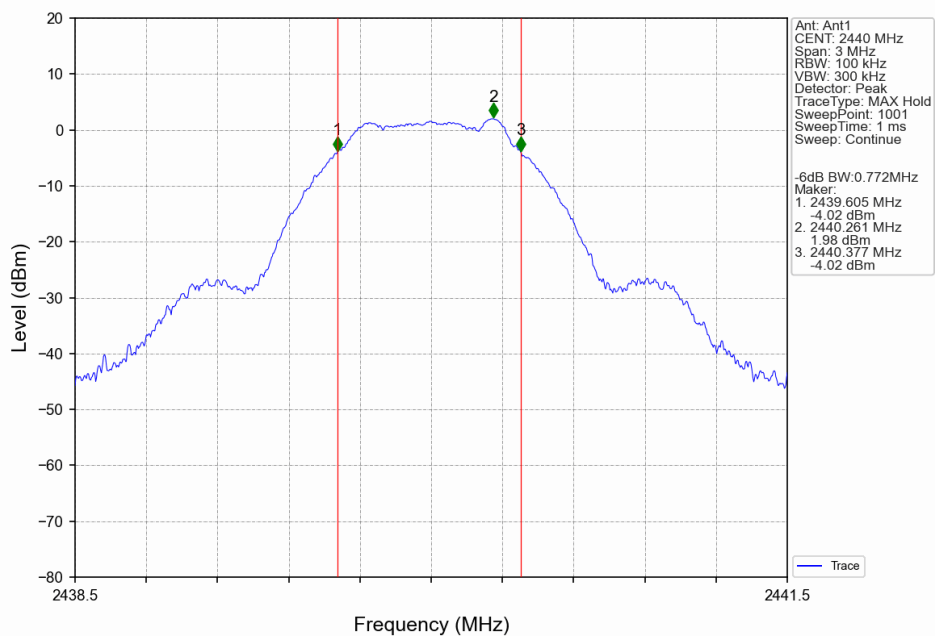
2M_HCH_2480MHz_Ant1_NTNV





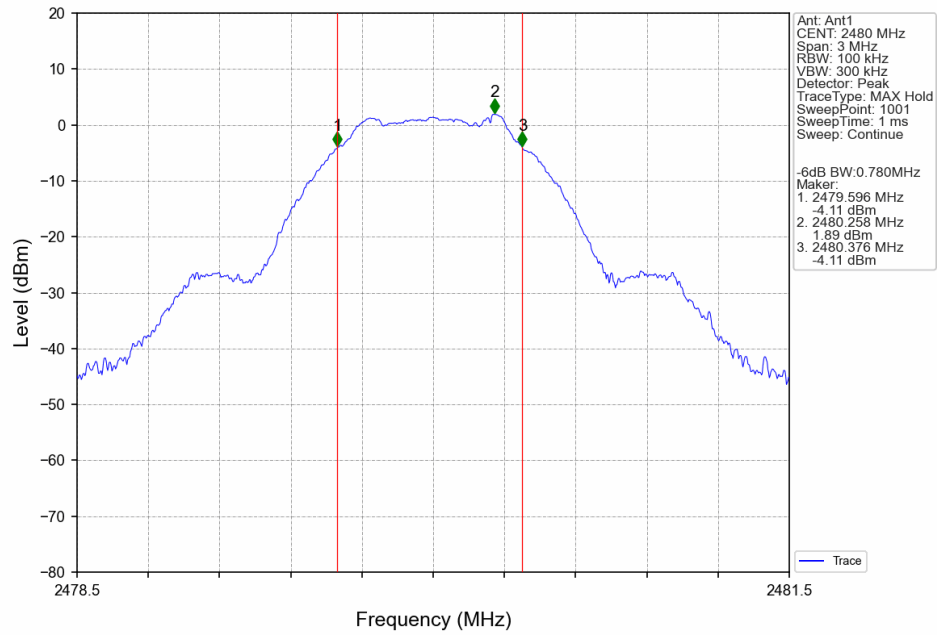
2.2.2 6dB BW



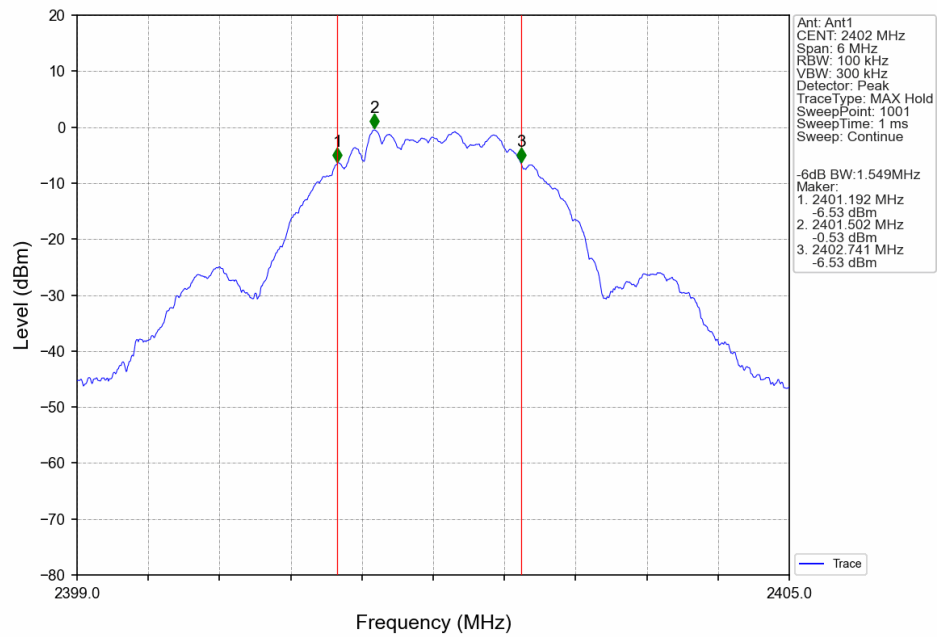




1M_HCH_2480MHz_Ant1_NTNV

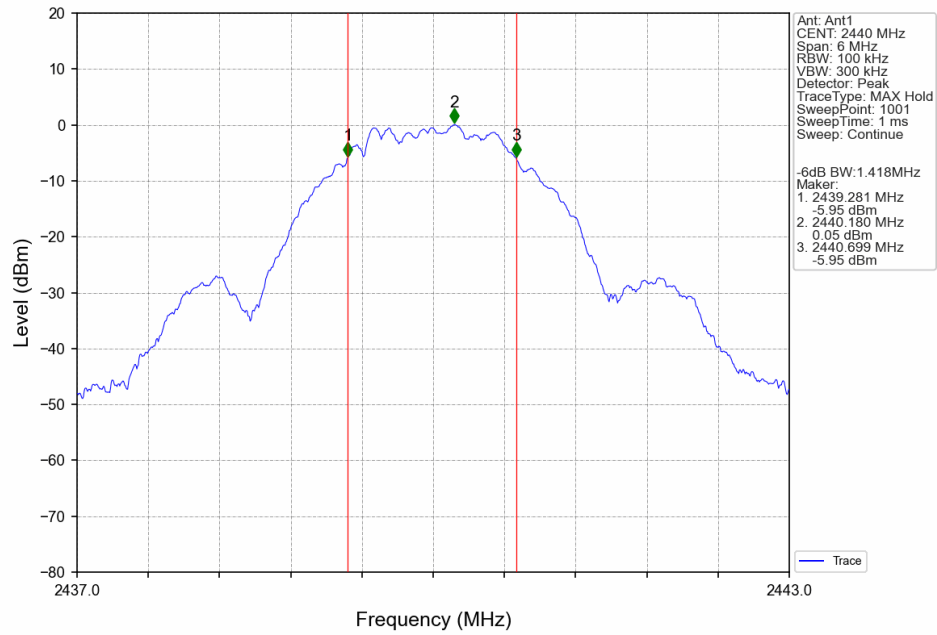


2M_LCH_2402MHz_Ant1_NTNV

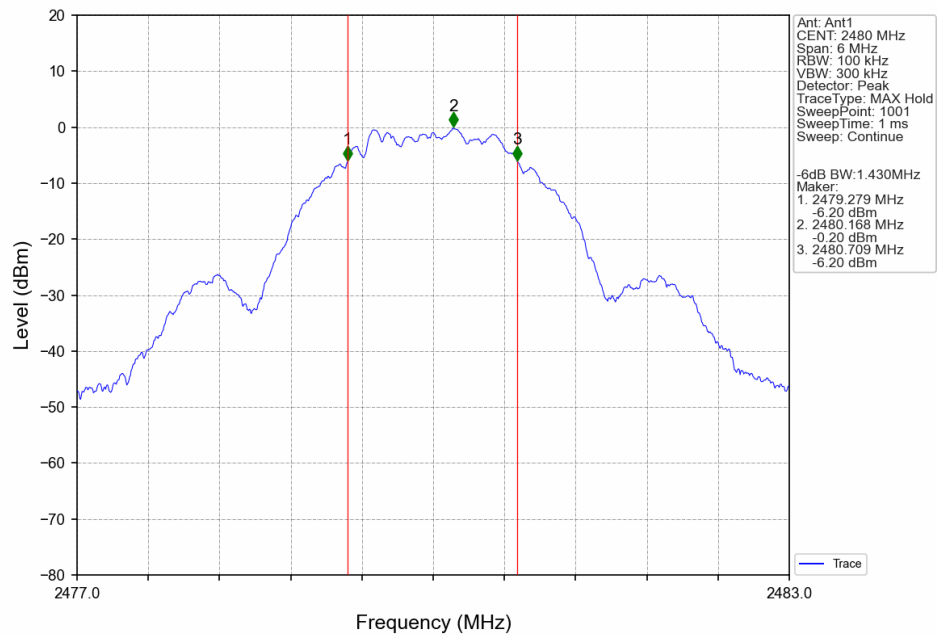




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





3. Maximum Conducted Output Power

3.1 Test Result

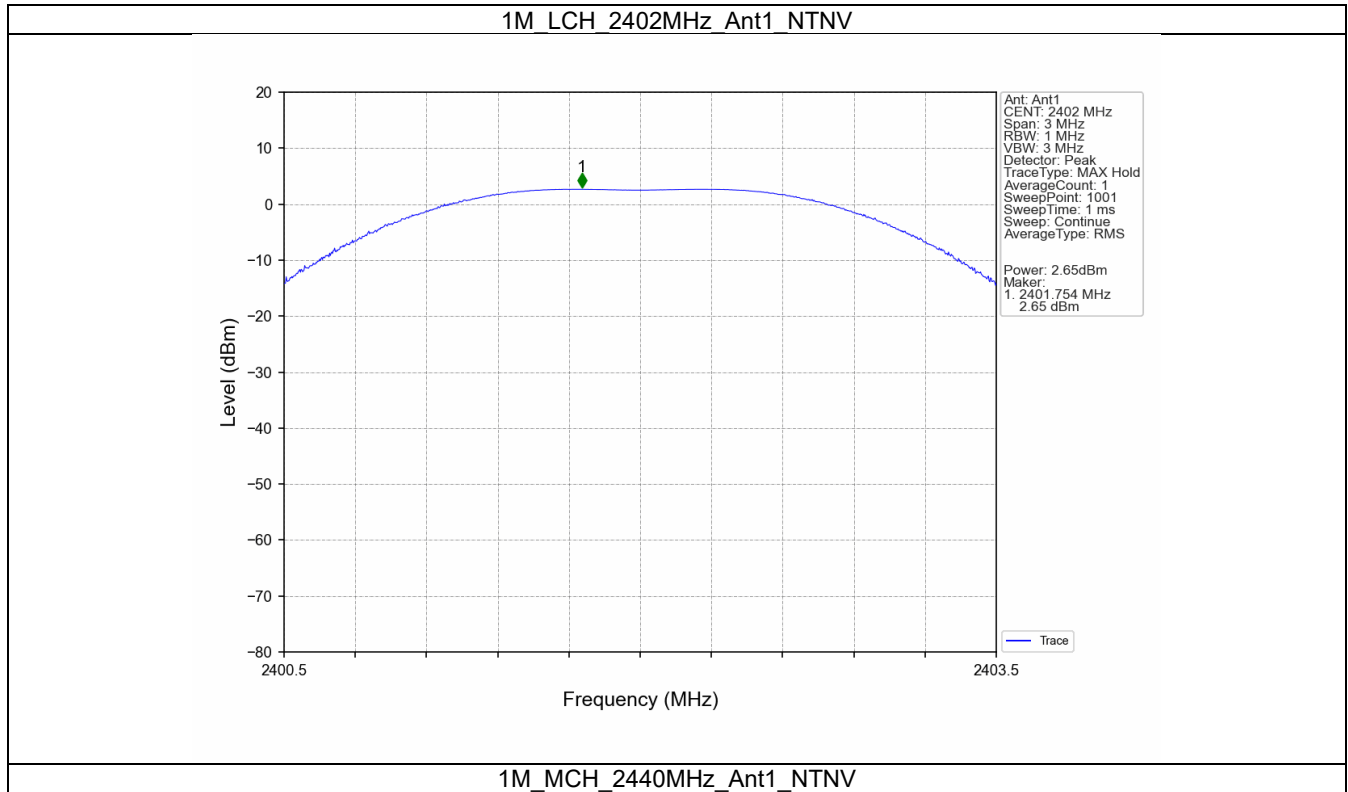
3.1.1 Power

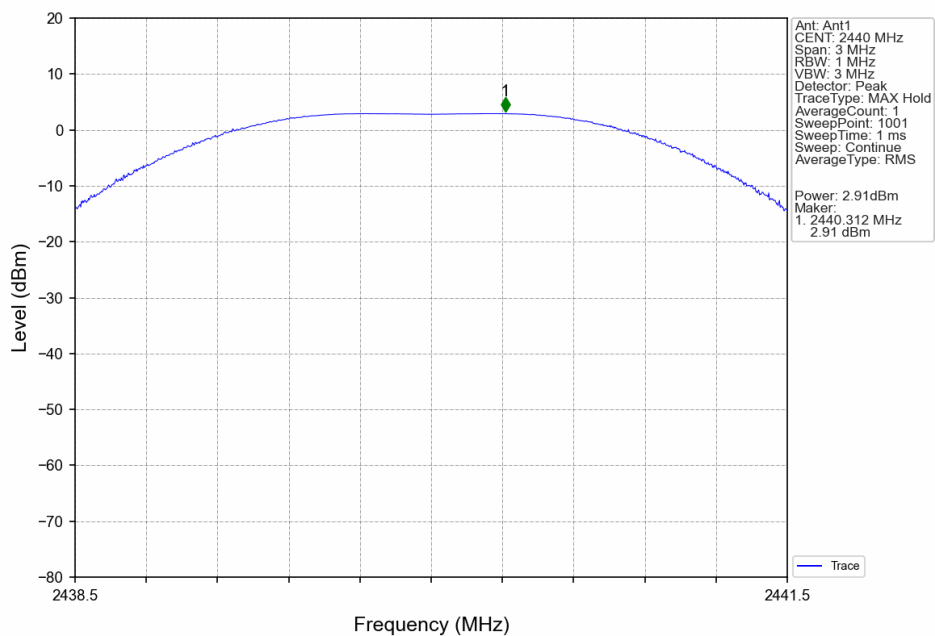
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	2.65	<=30	Pass
		2440	2.91	<=30	Pass
		2480	2.81	<=30	Pass
2M	SISO	2402	2.66	<=30	Pass
		2440	2.92	<=30	Pass
		2480	2.84	<=30	Pass
Note1: Antenna Gain: Ant1: 2.00dBi;					

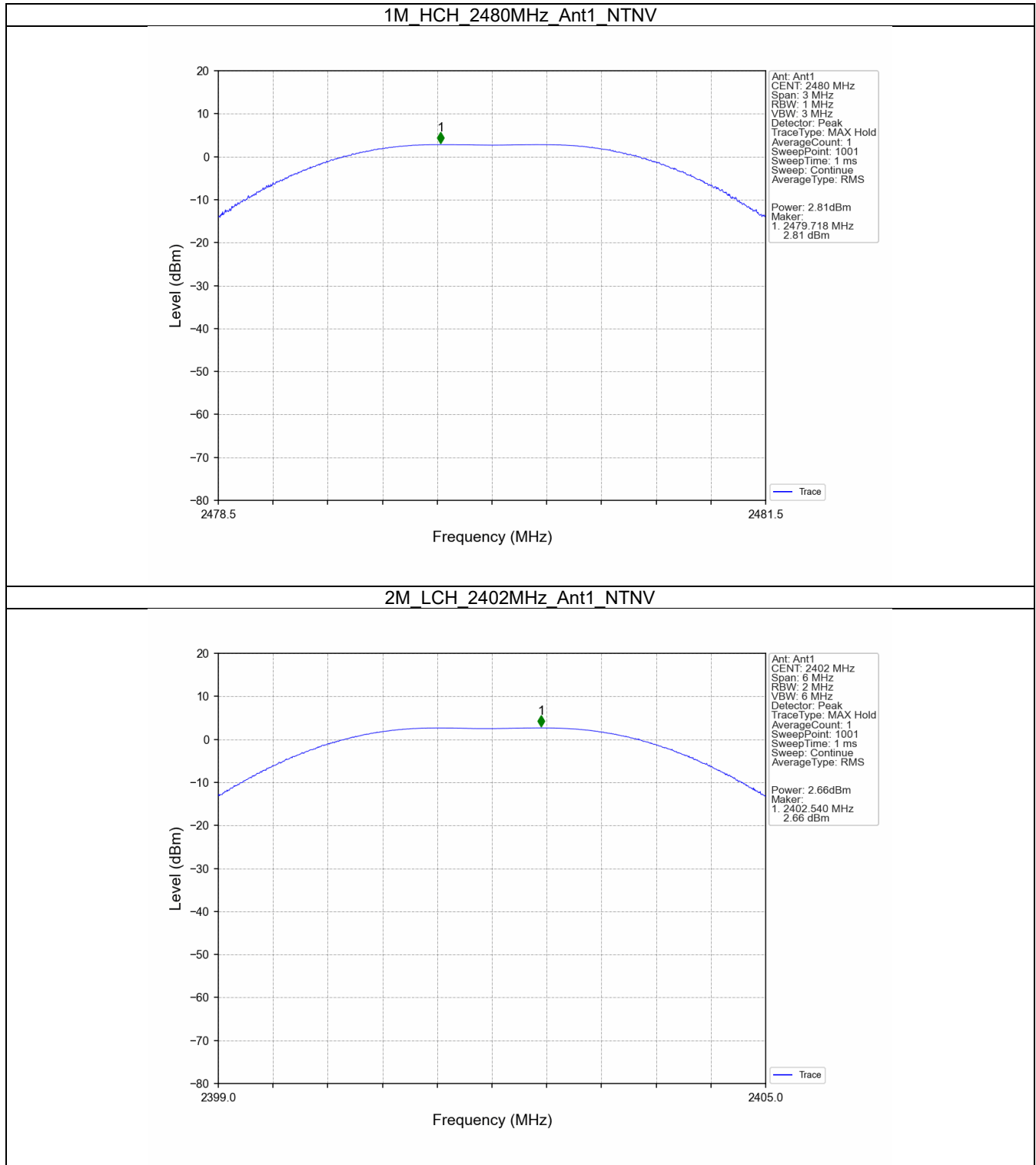


3.2 Test Graph

3.2.1 Power

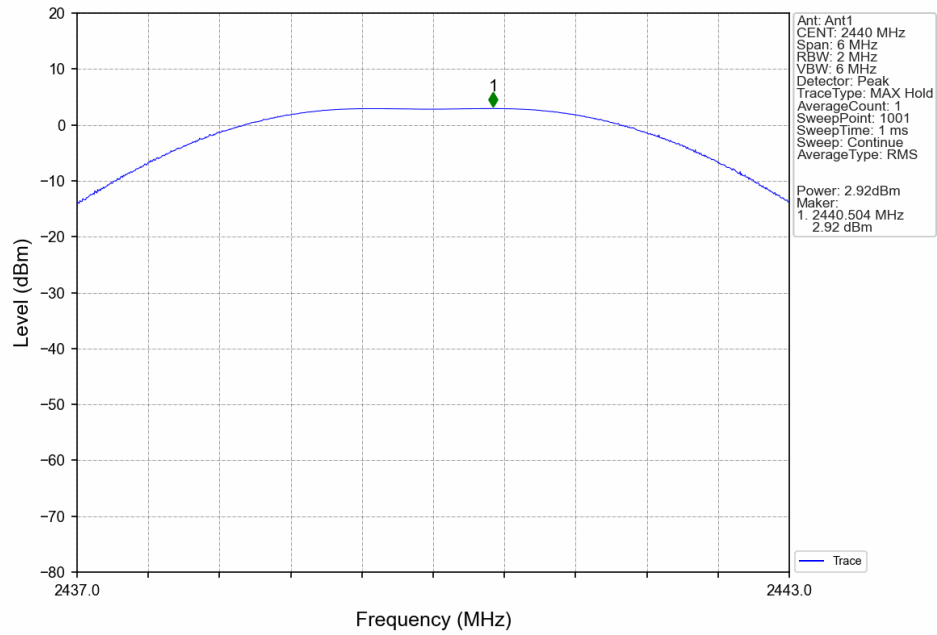




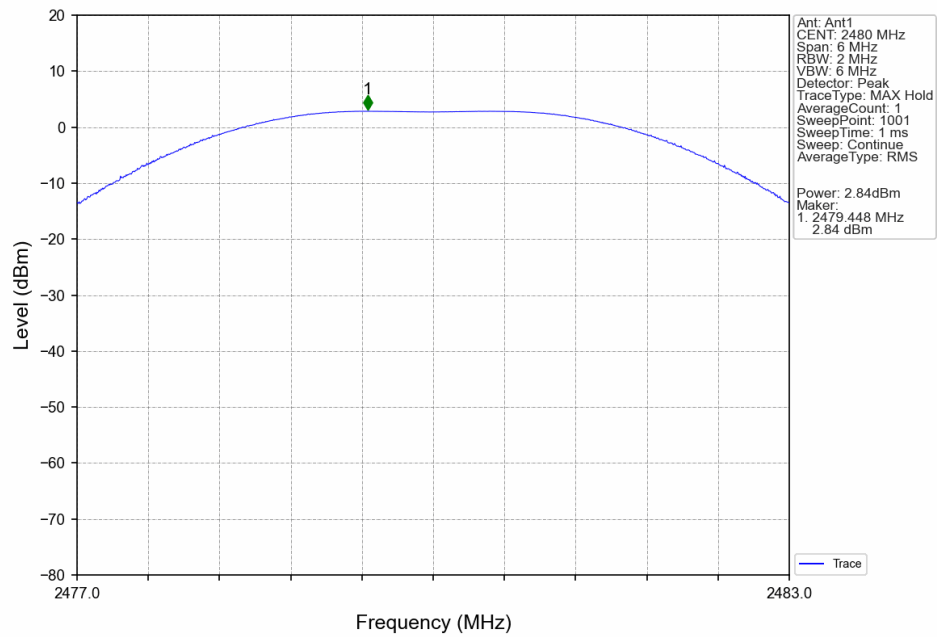




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

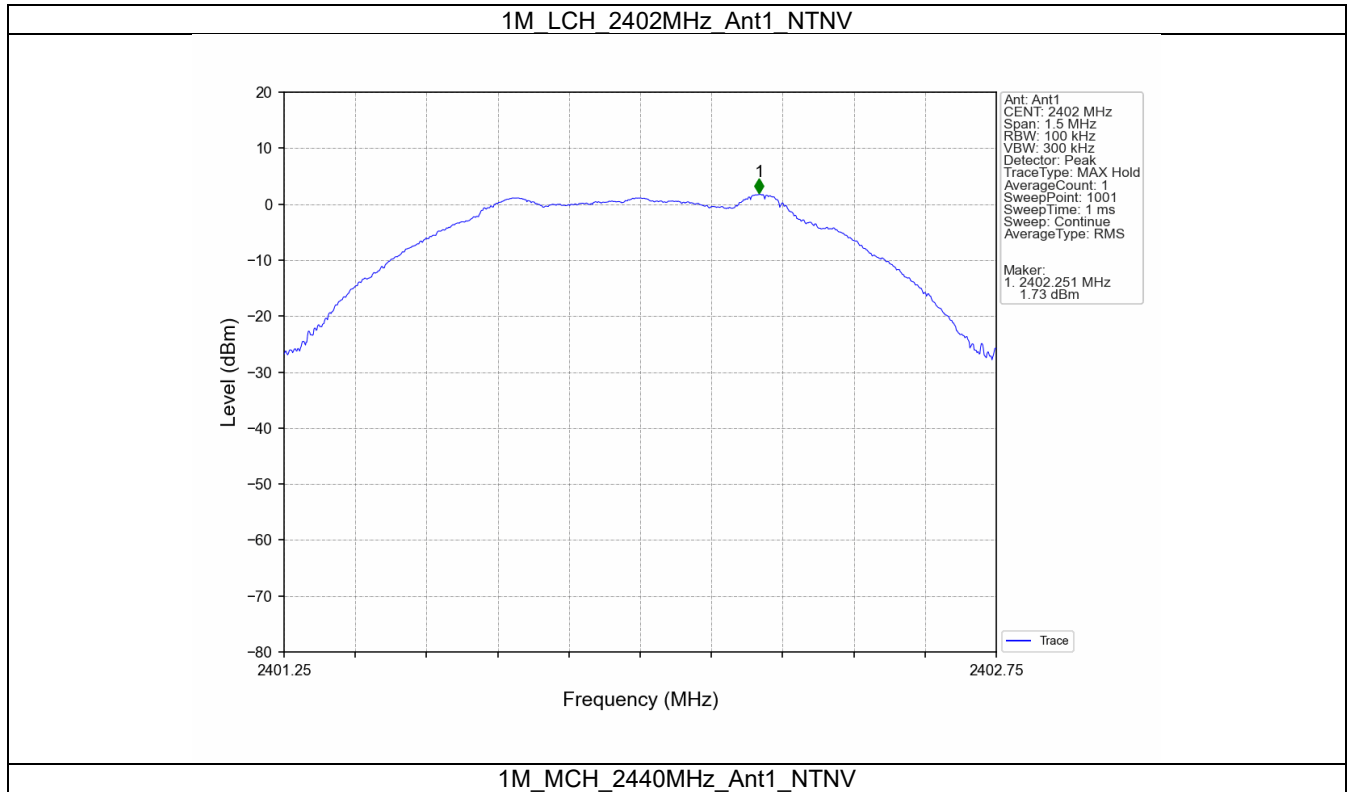
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	1.73dBm/100kHz	<=8	Pass
		2440	1.97dBm/100kHz	<=8	Pass
		2480	1.87dBm/100kHz	<=8	Pass
2M	SISO	2402	-0.60dBm/100kHz	<=8	Pass
		2440	-0.11dBm/100kHz	<=8	Pass
		2480	-0.49dBm/100kHz	<=8	Pass

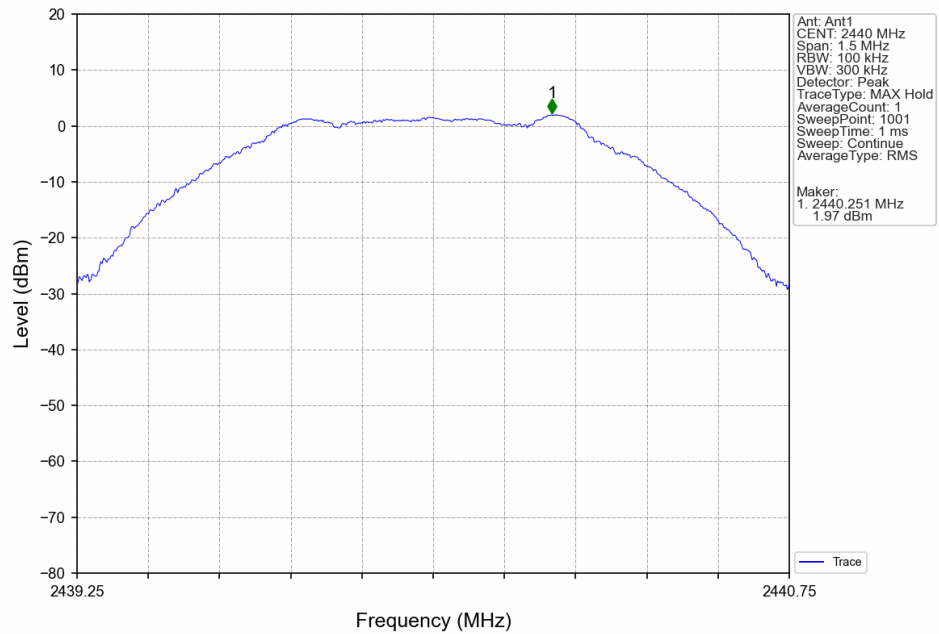
Note1: Antenna Gain: Ant1: 2.00dBi;



4.2 Test Graph

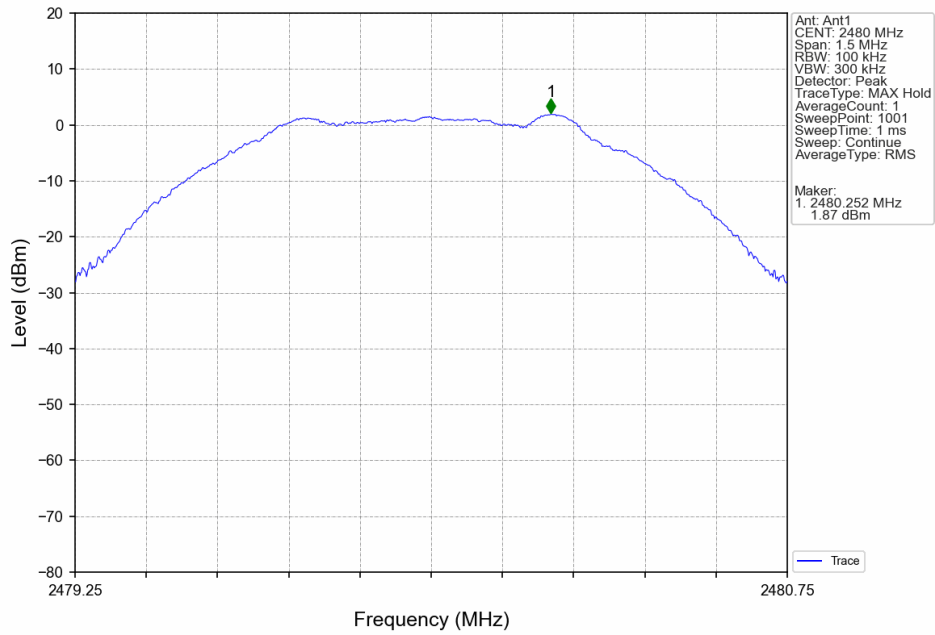
4.2.1 PSD



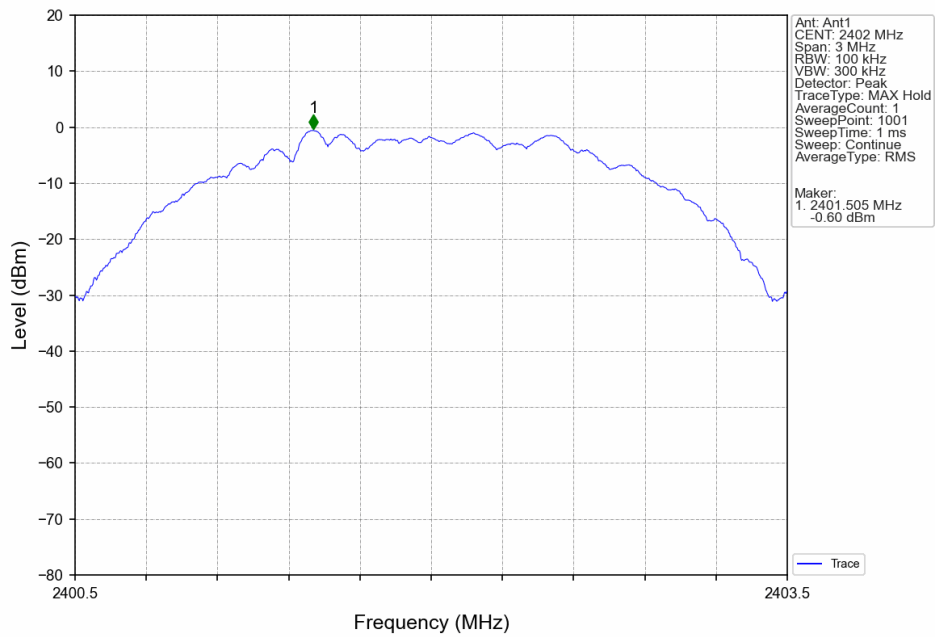




1M_HCH_2480MHz_Ant1_NTNV

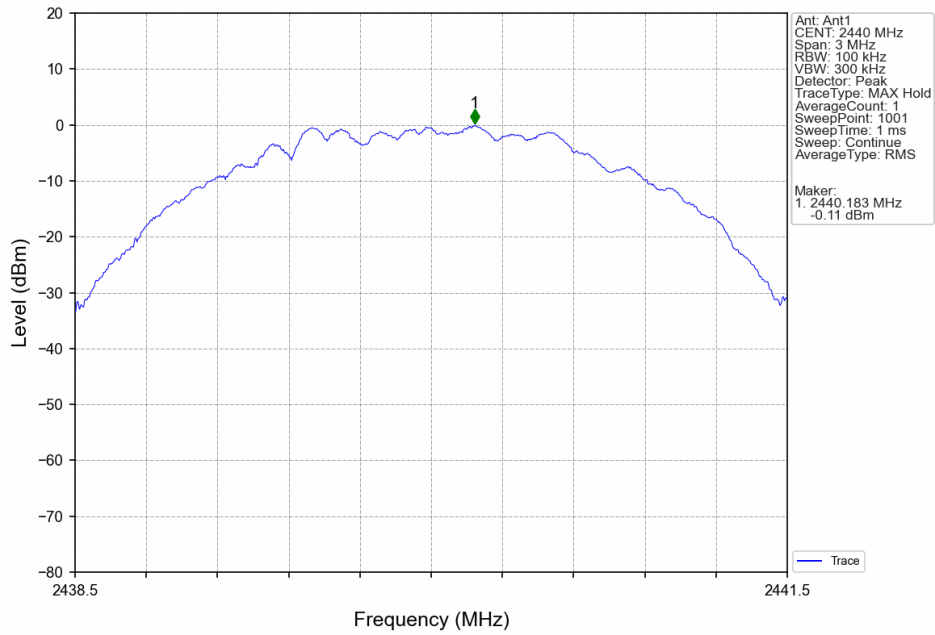


2M_LCH_2402MHz_Ant1_NTNV

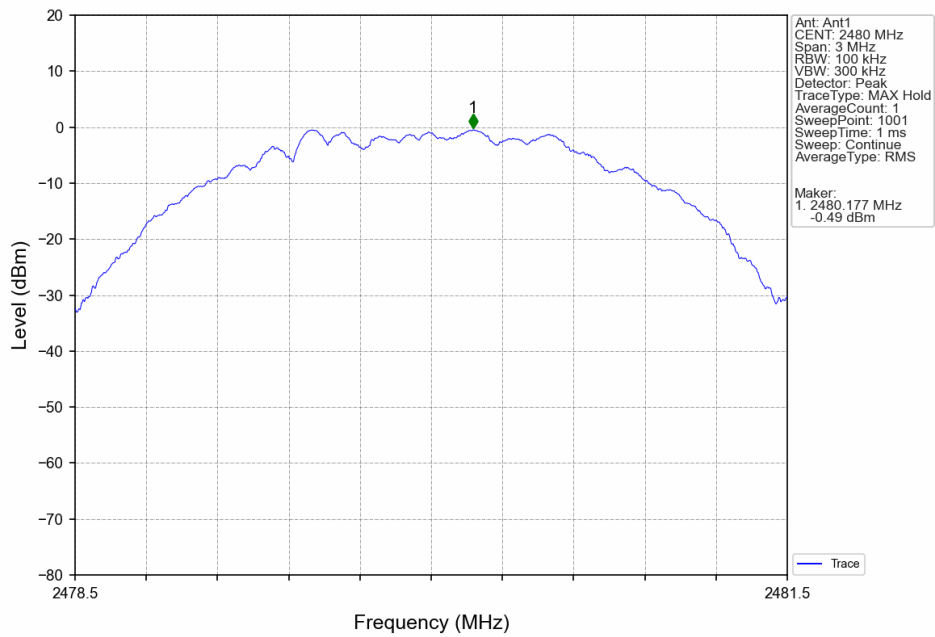




2M_MCH_2440MHz_Ant1_NTNV



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	1.71
		2440	1	1.96
		2480	1	1.87
2M	SISO	2402	1	-0.58
		2440	1	-0.04
		2480	1	-0.49

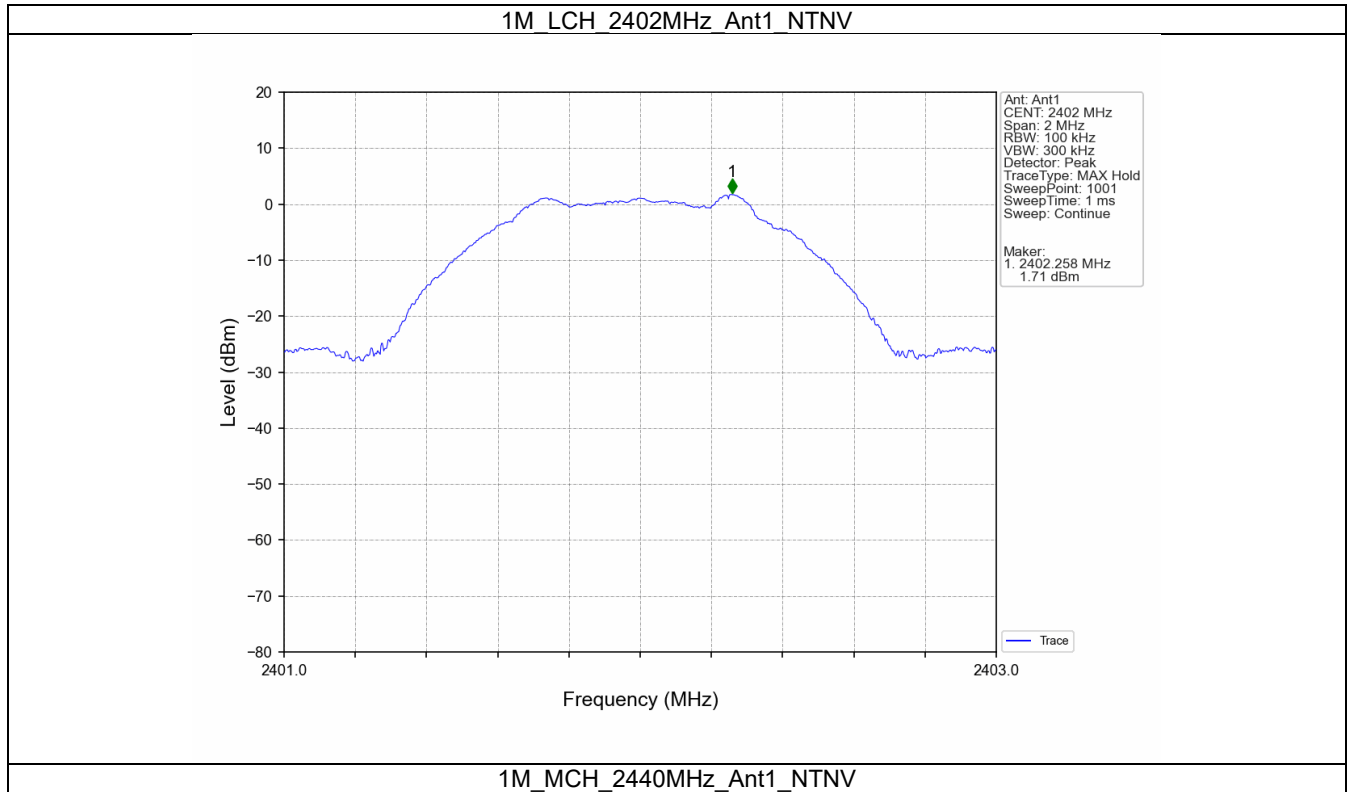
5.1.2 CSE

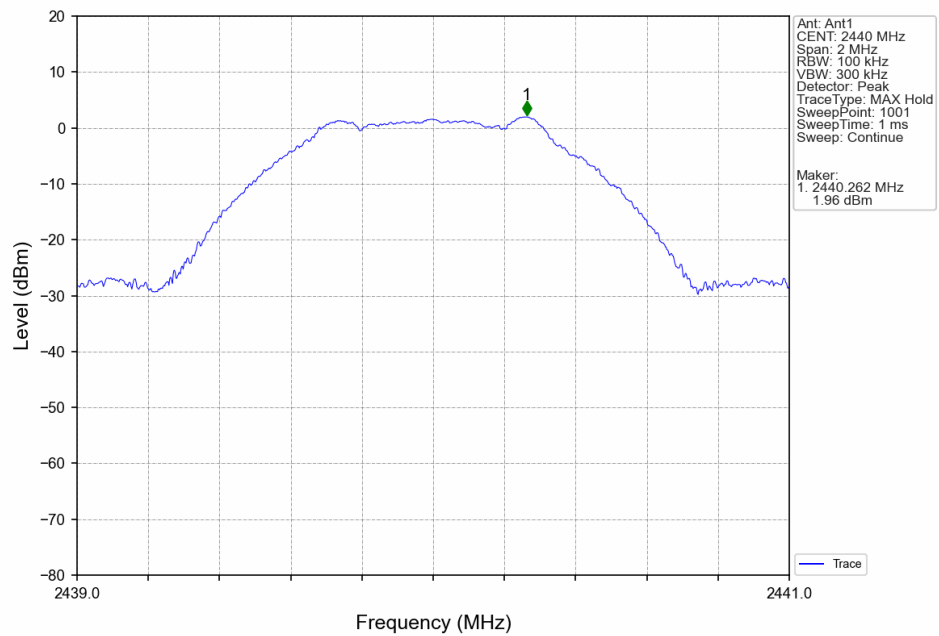
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	1.96	-18.04	Pass
		2440	1	1.96	-18.04	Pass
		2480	1	1.96	-18.04	Pass
2M	SISO	2402	1	-0.04	-20.04	Pass
		2440	1	-0.04	-20.04	Pass
		2480	1	-0.04	-20.04	Pass



5.2 Test Graph

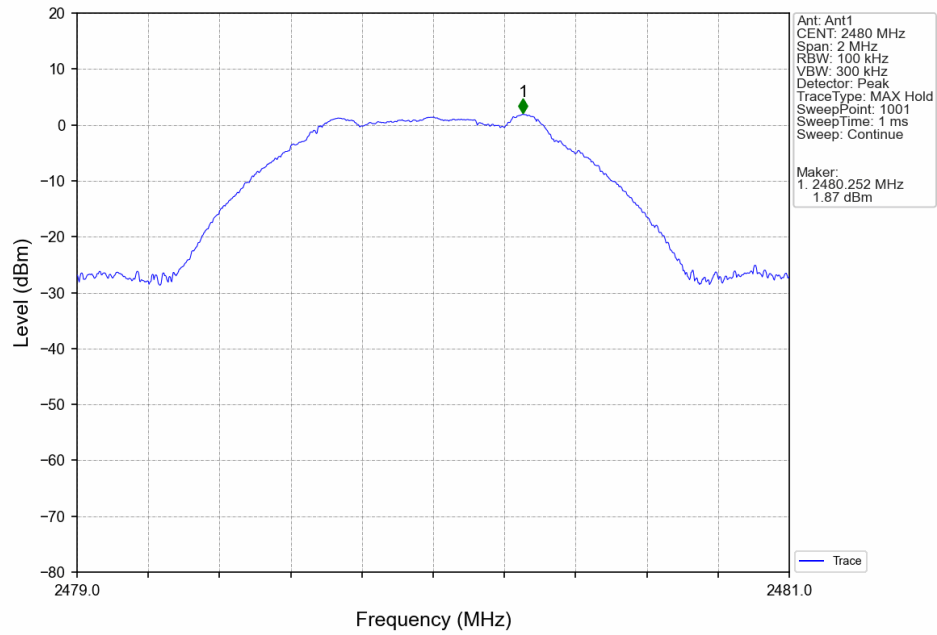
5.2.1 Ref



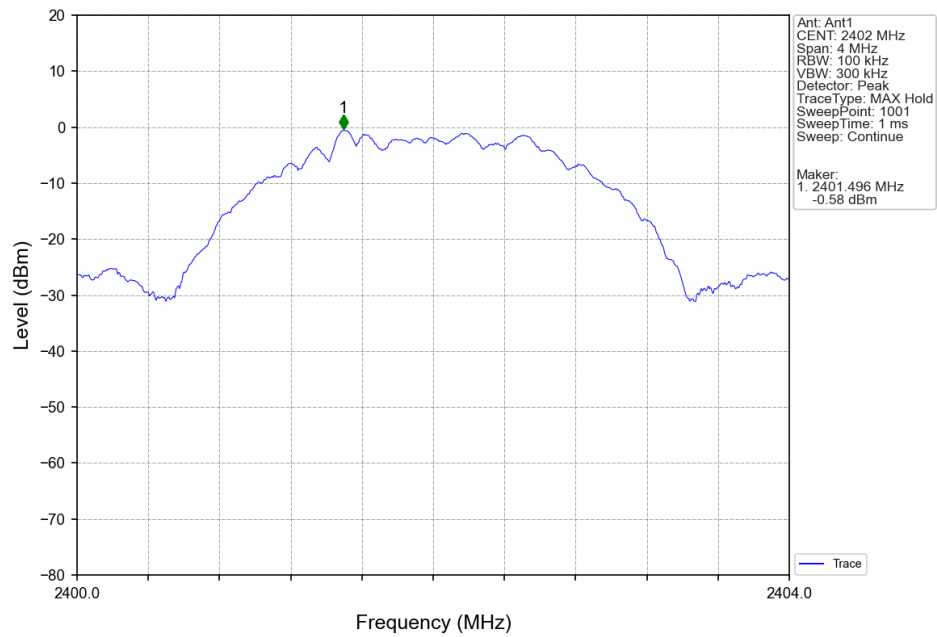




1M_HCH_2480MHz_Ant1_NTNV

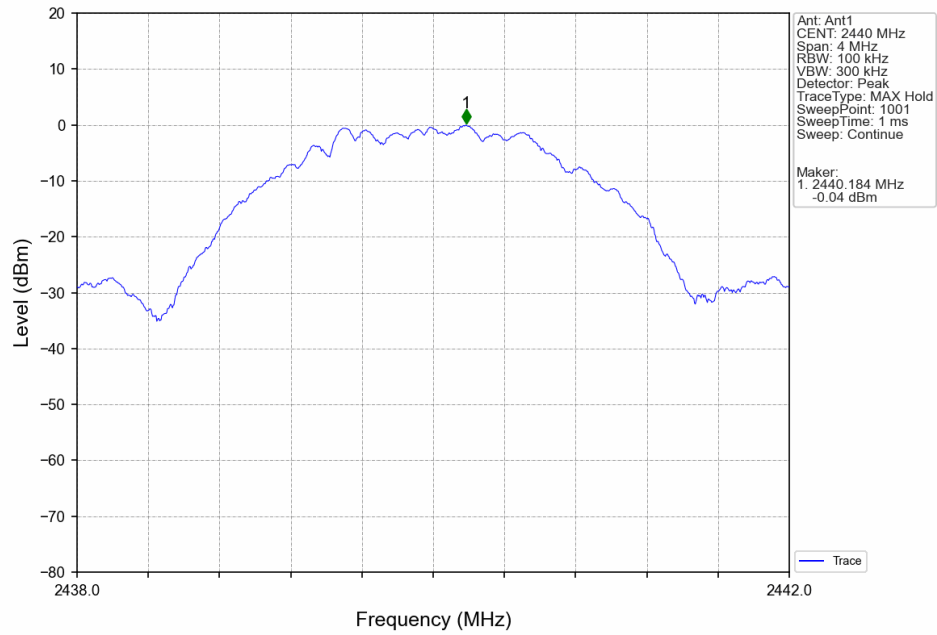


2M_LCH_2402MHz_Ant1_NTNV

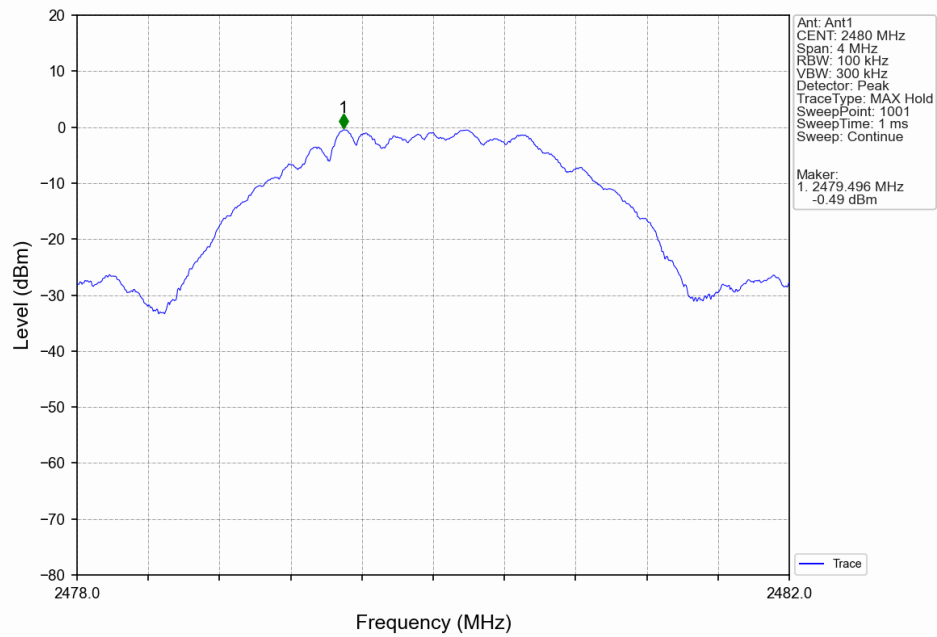




2M_MCH_2440MHz_Ant1_NTNV

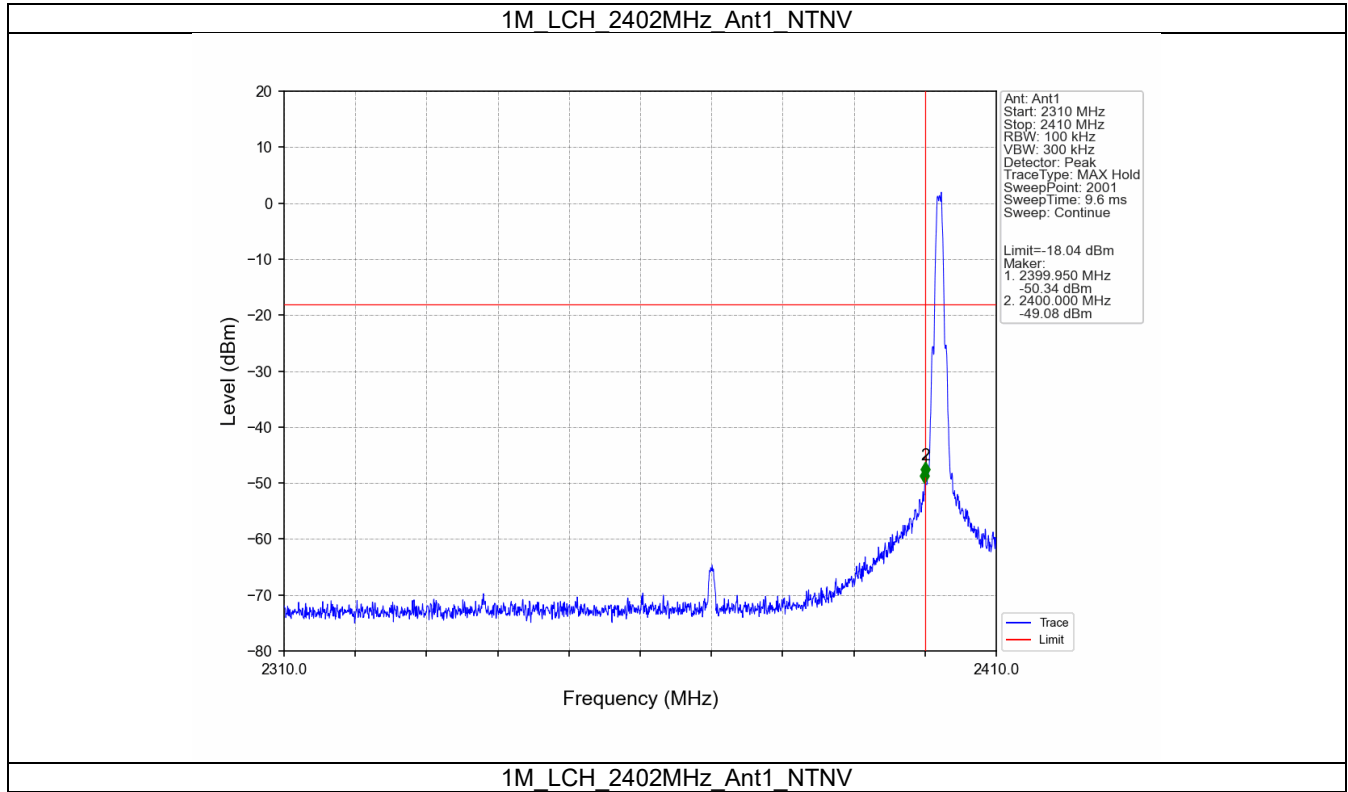


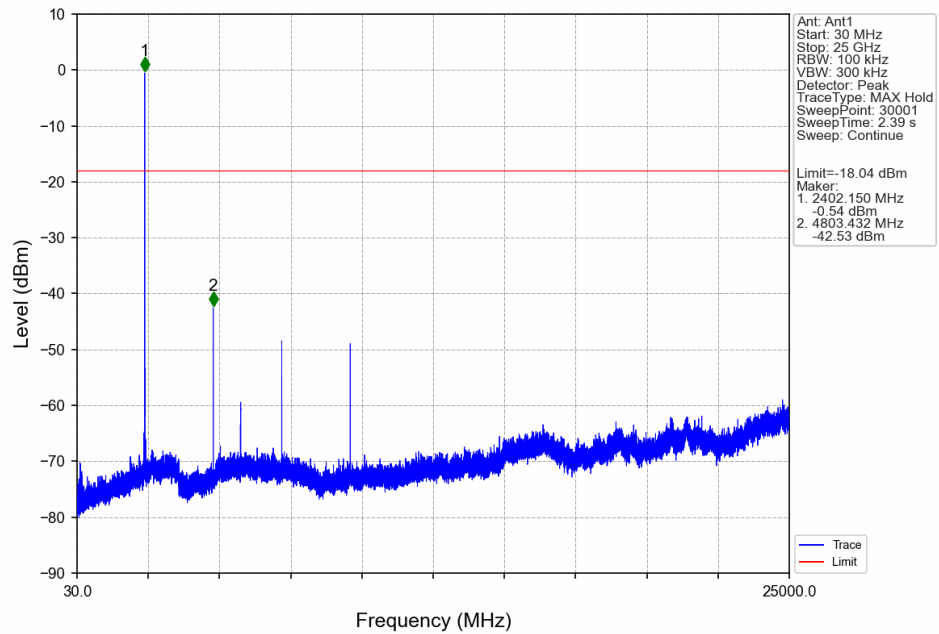
2M_HCH_2480MHz_Ant1_NTNV





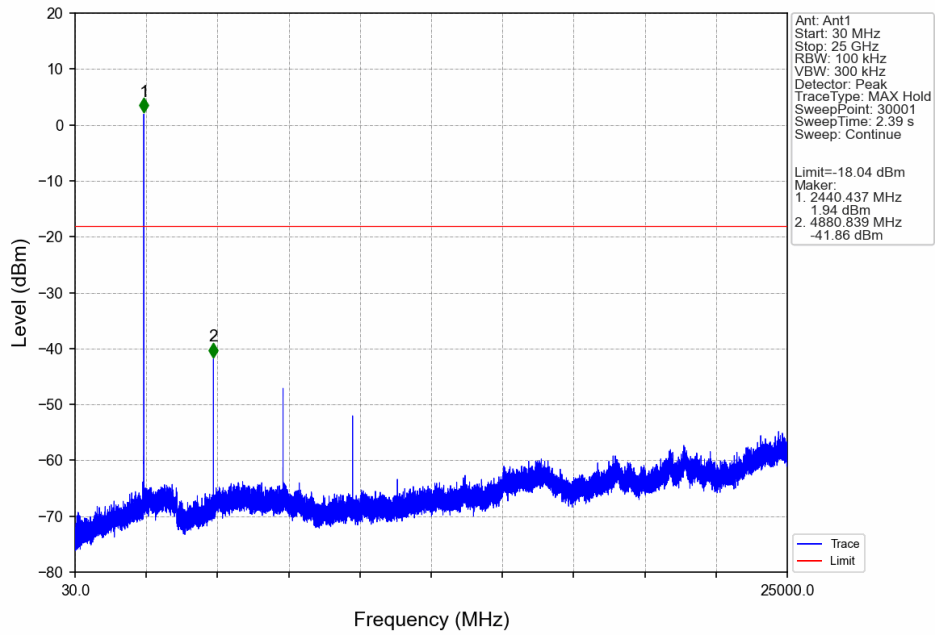
5.2.2 CSE



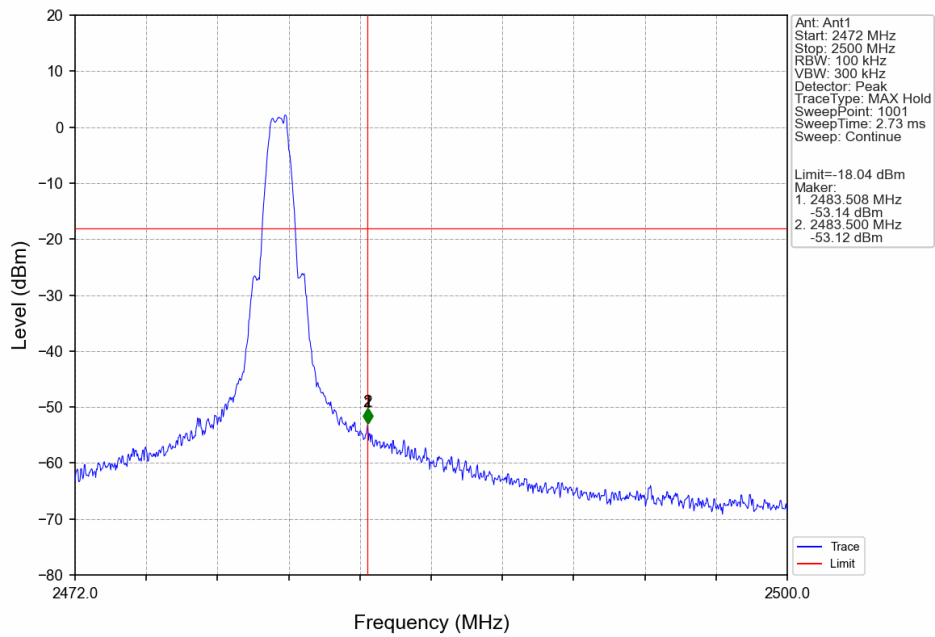




1M_MCH_2440MHz_Ant1_NTNV

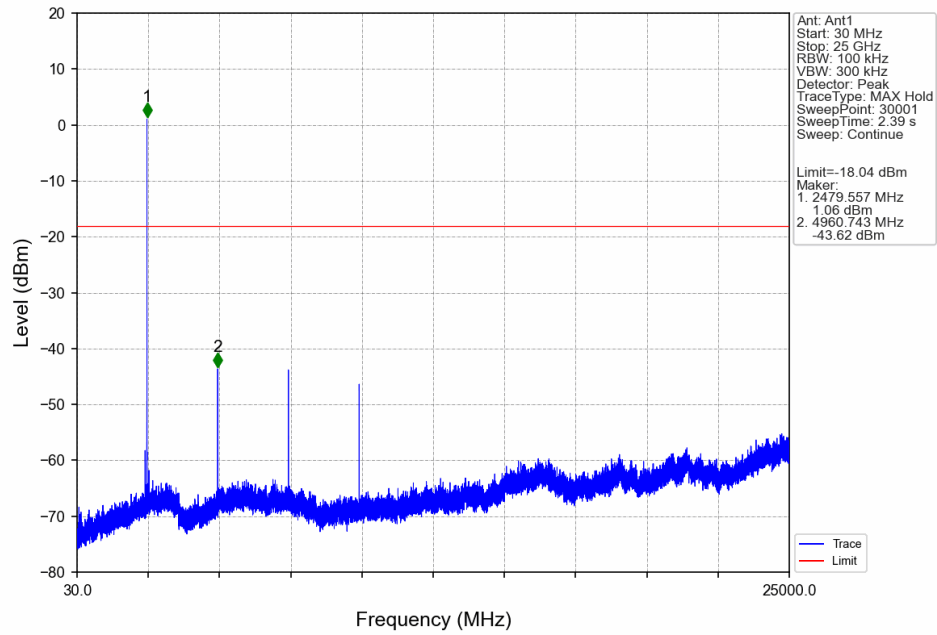


1M_HCH_2480MHz_Ant1_NTNV

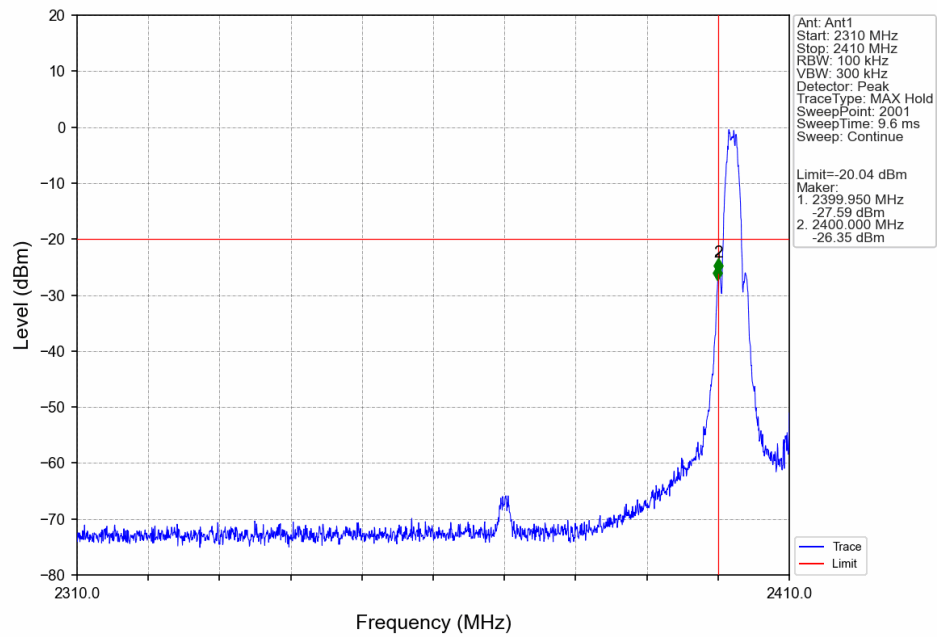




1M_HCH_2480MHz_Ant1_NTNV

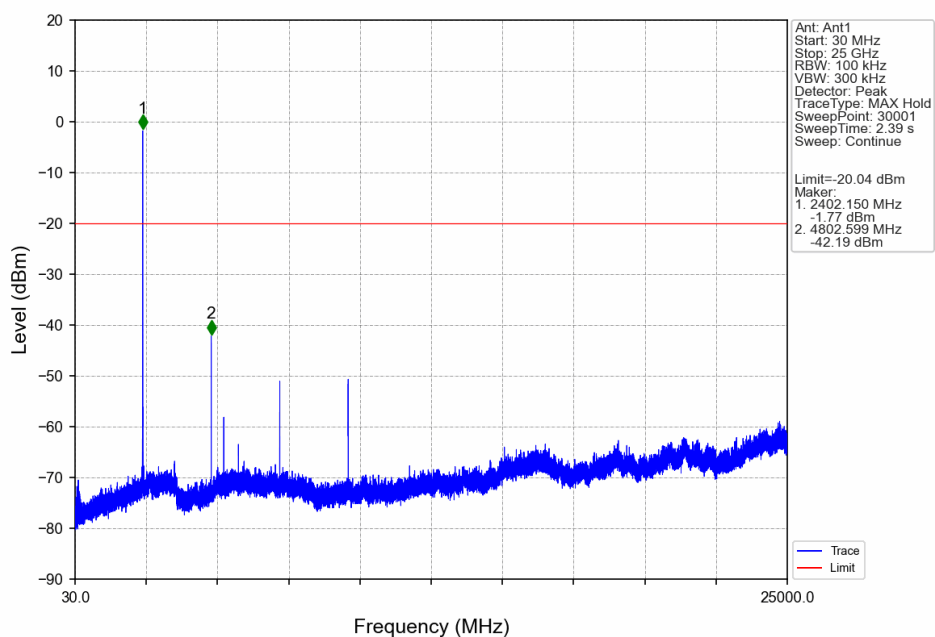


2M_LCH_2402MHz_Ant1_NTNV

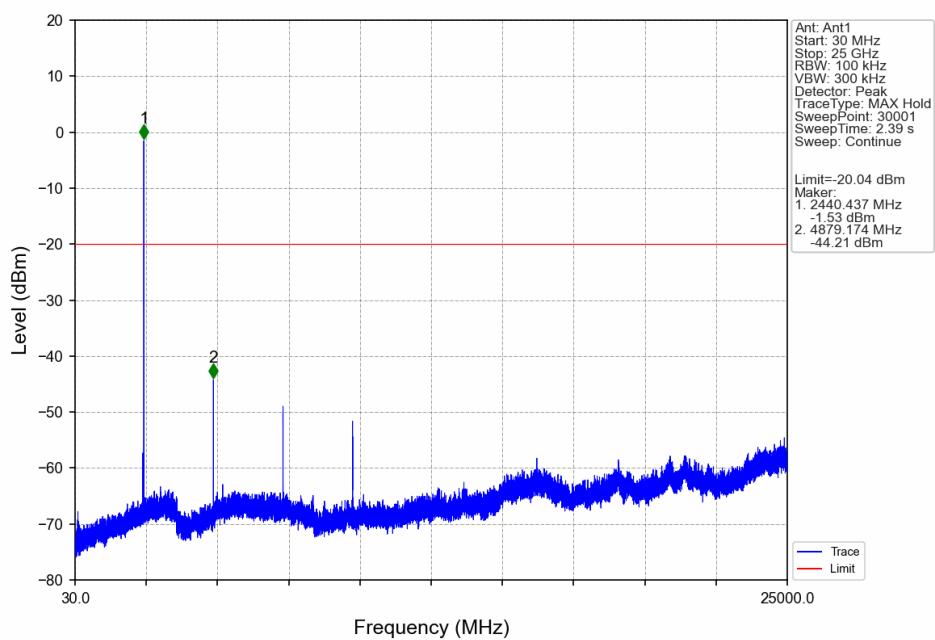




2M_LCH_2402MHz_Ant1_NTNV

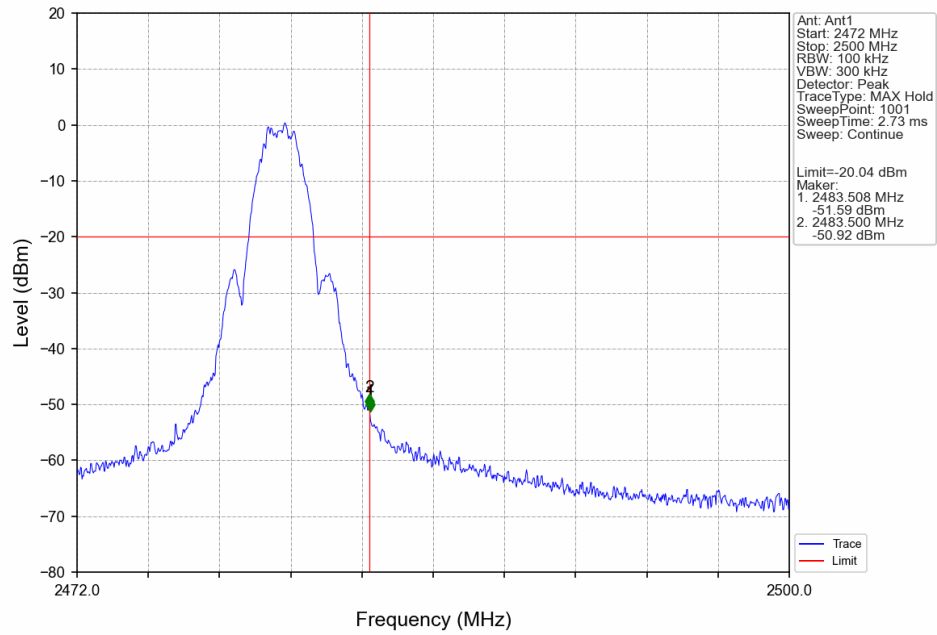


2M_MCH_2440MHz_Ant1_NTNV

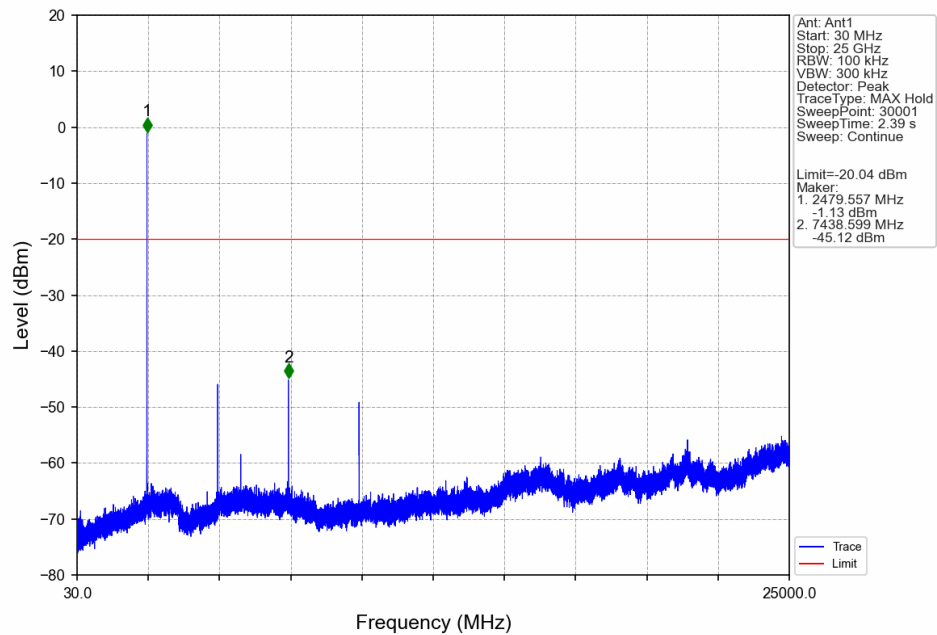




2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





6. Unwanted Emissions In Restricted Frequency Bands

6.1 Test Result

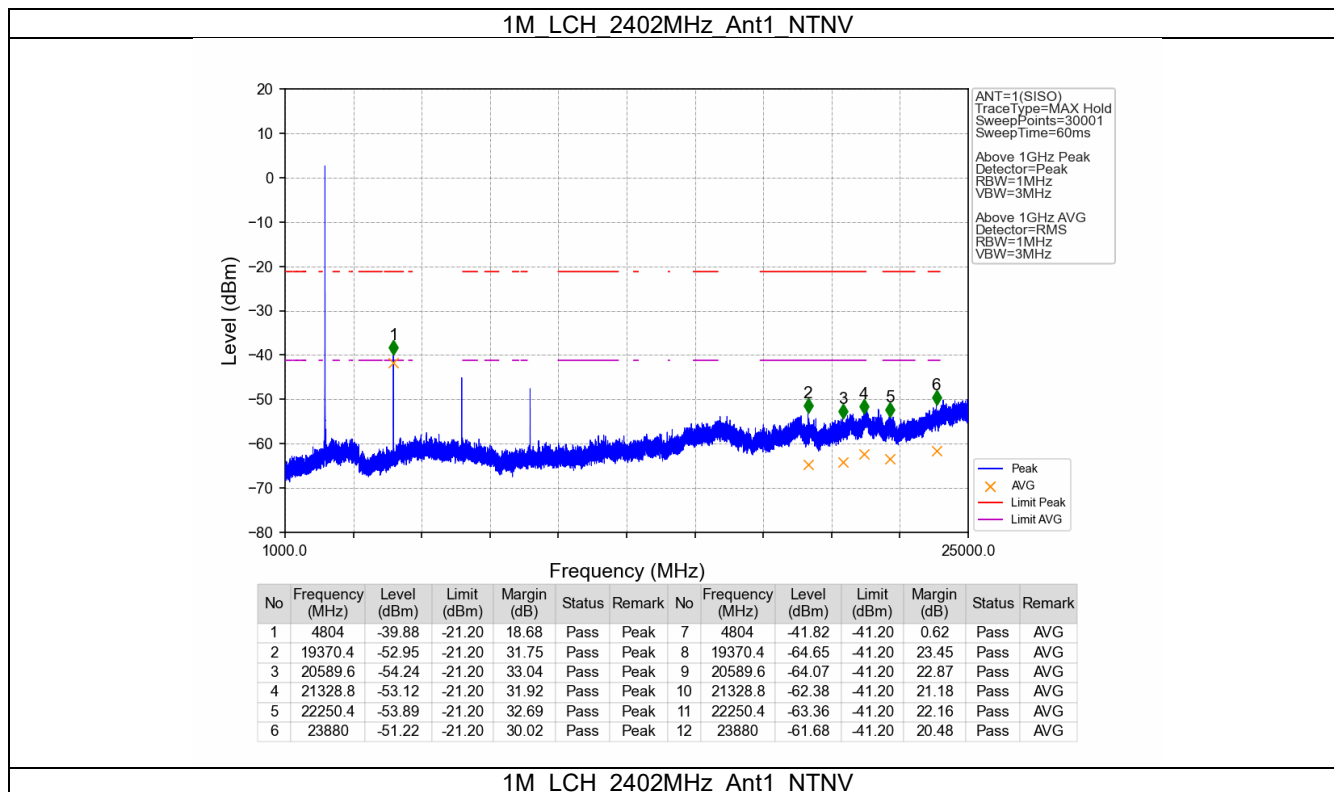
6.1.1 RSE

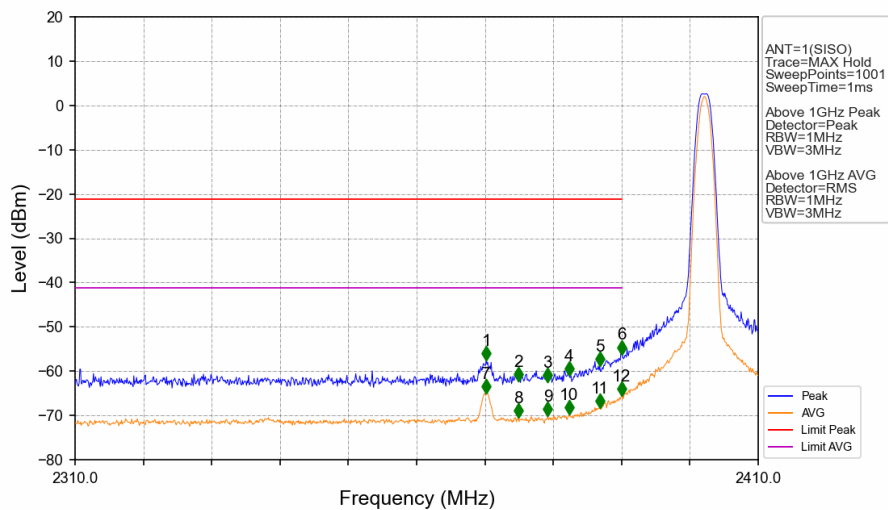
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
1M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test Graph		Pass
2M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test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



6.2 Test Graph

6.2.1 RSE

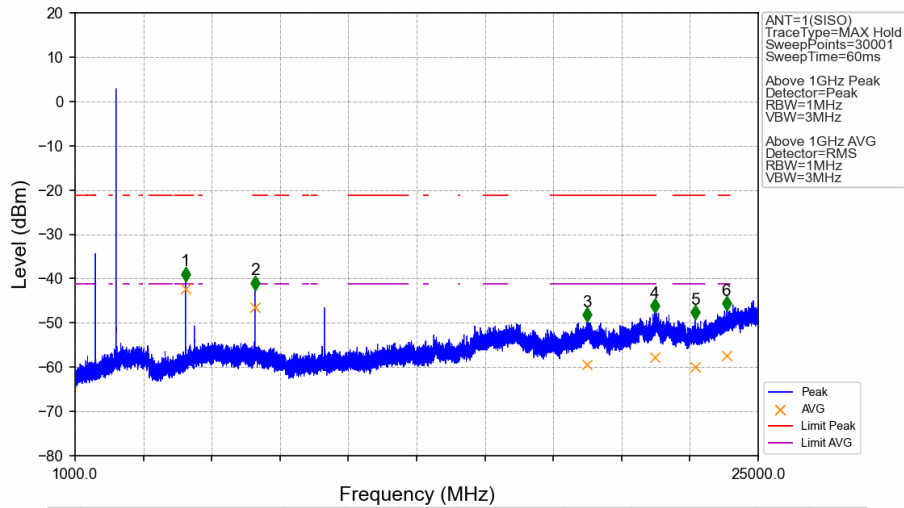




No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2370.200	-57.47	-21.20	36.27	Pass	Peak	7	2370.200	-64.93	-41.20	23.73	Pass	AVG
2	2374.900	-62.26	-21.20	41.06	Pass	Peak	8	2374.900	-70.45	-41.20	29.25	Pass	AVG
3	2379.200	-62.38	-21.20	41.18	Pass	Peak	9	2379.200	-70.07	-41.20	28.87	Pass	AVG
4	2382.300	-60.94	-21.20	39.74	Pass	Peak	10	2382.300	-69.75	-41.20	28.55	Pass	AVG
5	2386.800	-58.90	-21.20	37.70	Pass	Peak	11	2386.800	-68.21	-41.20	27.01	Pass	AVG
6	2390.000	-56.17	-21.20	34.97	Pass	Peak	12	2390.000	-65.55	-41.20	24.35	Pass	AVG

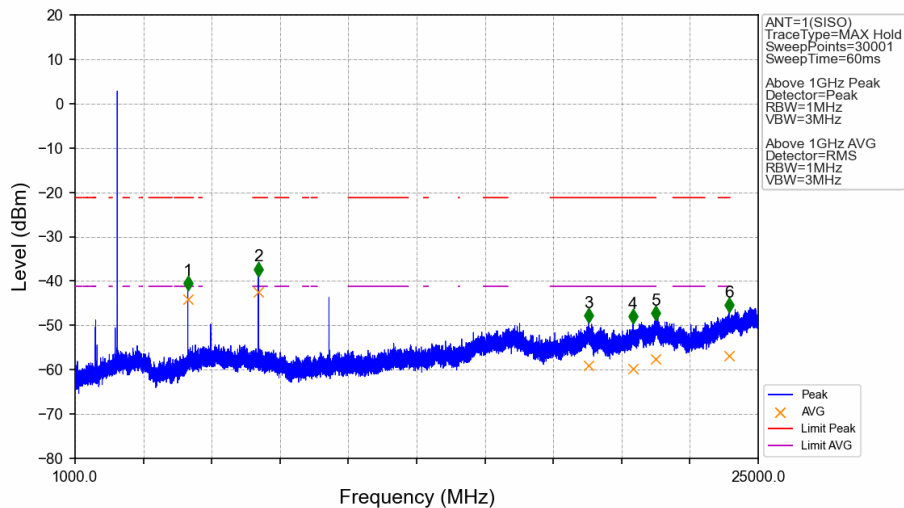


1M_MCH_2440MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4880.8	-40.51	-21.20	19.31	Pass	Peak	7	4880.8	-42.37	-41.20	1.17	Pass	AVG
2	7320.8	-42.52	-21.20	21.32	Pass	Peak	8	7320.8	-46.49	-41.20	5.29	Pass	AVG
3	18981.6	-49.75	-21.20	28.55	Pass	Peak	9	18981.6	-59.49	-41.20	18.29	Pass	AVG
4	21369.6	-47.68	-21.20	26.48	Pass	Peak	10	21369.6	-57.84	-41.20	16.64	Pass	AVG
5	22783.2	-49.17	-21.20	27.97	Pass	Peak	11	22783.2	-59.93	-41.20	18.73	Pass	AVG
6	23880	-47.15	-21.20	25.95	Pass	Peak	12	23880	-57.41	-41.20	16.21	Pass	AVG

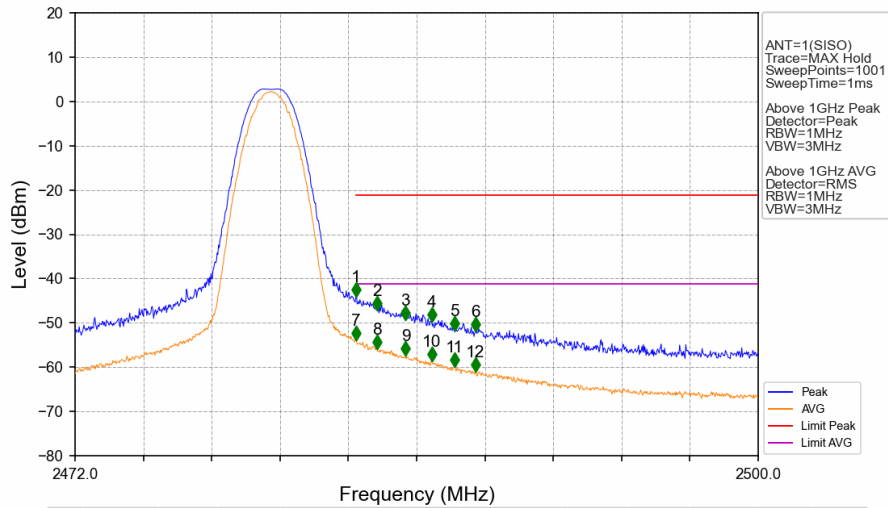
1M_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4960.8	-42.09	-21.20	20.89	Pass	Peak	7	4960.8	-44.15	-41.20	2.95	Pass	AVG
2	7440.8	-38.87	-21.20	17.67	Pass	Peak	8	7440.8	-42.48	-41.20	1.28	Pass	AVG
3	19034.4	-49.38	-21.20	28.18	Pass	Peak	9	19034.4	-59.00	-41.20	17.80	Pass	AVG
4	20602.4	-49.59	-21.20	28.39	Pass	Peak	10	20602.4	-59.83	-41.20	18.63	Pass	AVG
5	21383.2	-48.86	-21.20	27.66	Pass	Peak	11	21383.2	-57.54	-41.20	16.34	Pass	AVG
6	23976.8	-46.99	-21.20	25.79	Pass	Peak	12	23976.8	-56.88	-41.20	15.68	Pass	AVG

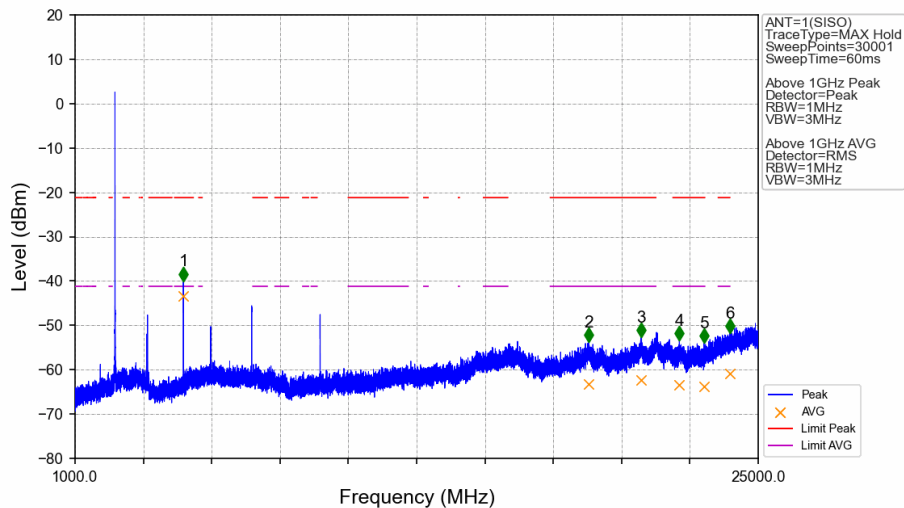


1M_HCH_2480MHz_Ant1_NTNV



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	-44.04	-21.20	22.84	Pass	Peak	7	2483.508	-53.85	-41.20	12.65	Pass	AVG
2	2484.376	-47.10	-21.20	25.90	Pass	Peak	8	2484.376	-55.96	-41.20	14.76	Pass	AVG
3	2485.552	-49.32	-21.20	28.12	Pass	Peak	9	2485.552	-57.43	-41.20	16.23	Pass	AVG
4	2486.616	-49.78	-21.20	28.58	Pass	Peak	10	2486.616	-58.57	-41.20	17.37	Pass	AVG
5	2487.540	-51.77	-21.20	30.57	Pass	Peak	11	2487.540	-59.99	-41.20	18.79	Pass	AVG
6	2488.408	-51.83	-21.20	30.63	Pass	Peak	12	2488.408	-61.00	-41.20	19.80	Pass	AVG

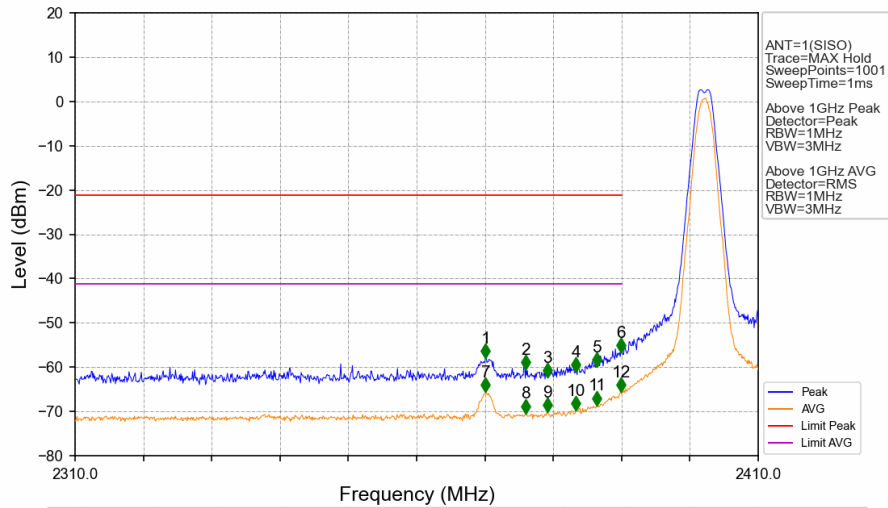
2M_LCH_2402MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4803.2	-39.96	-21.20	18.76	Pass	Peak	7	4803.2	-43.40	-41.20	2.20	Pass	AVG
2	19048.8	-53.76	-21.20	32.56	Pass	Peak	8	19048.8	-63.29	-41.20	22.09	Pass	AVG
3	20887.2	-52.58	-21.20	31.38	Pass	Peak	9	20887.2	-62.32	-41.20	21.12	Pass	AVG
4	22229.6	-53.31	-21.20	32.11	Pass	Peak	10	22229.6	-63.42	-41.20	22.22	Pass	AVG
5	23095.2	-53.89	-21.20	32.69	Pass	Peak	11	23095.2	-63.78	-41.20	22.58	Pass	AVG
6	23999.2	-51.69	-21.20	30.49	Pass	Peak	12	23999.2	-60.95	-41.20	19.75	Pass	AVG

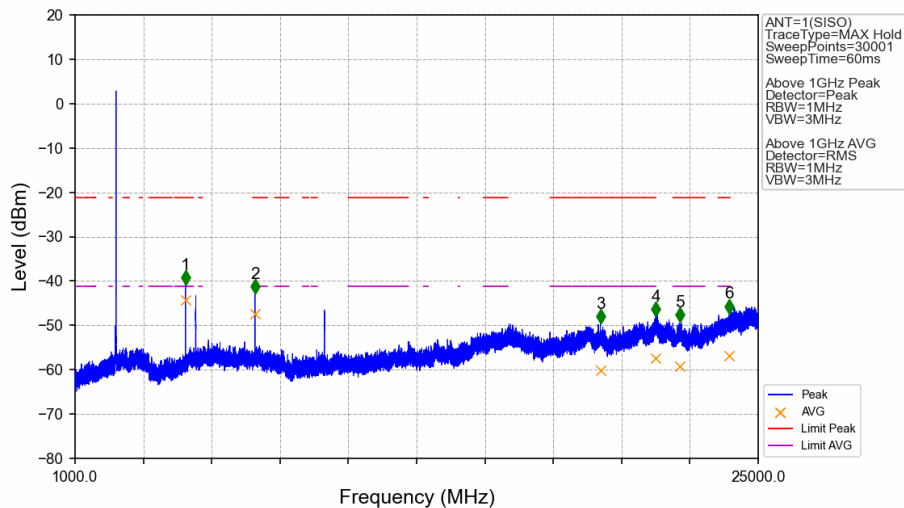


2M_LCH_2402MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2370.100	-57.89	-21.20	36.69	Pass	Peak	7	2370.100	-65.56	-41.20	24.36	Pass	AVG
2	2376.000	-60.52	-21.20	39.32	Pass	Peak	8	2376.000	-70.38	-41.20	29.18	Pass	AVG
3	2379.100	-62.20	-21.20	41.00	Pass	Peak	9	2379.100	-70.18	-41.20	28.98	Pass	AVG
4	2383.300	-61.02	-21.20	39.82	Pass	Peak	10	2383.300	-69.79	-41.20	28.59	Pass	AVG
5	2386.400	-59.85	-21.20	38.65	Pass	Peak	11	2386.400	-68.56	-41.20	27.36	Pass	AVG
6	2389.900	-56.59	-21.20	35.39	Pass	Peak	12	2389.900	-65.61	-41.20	24.41	Pass	AVG

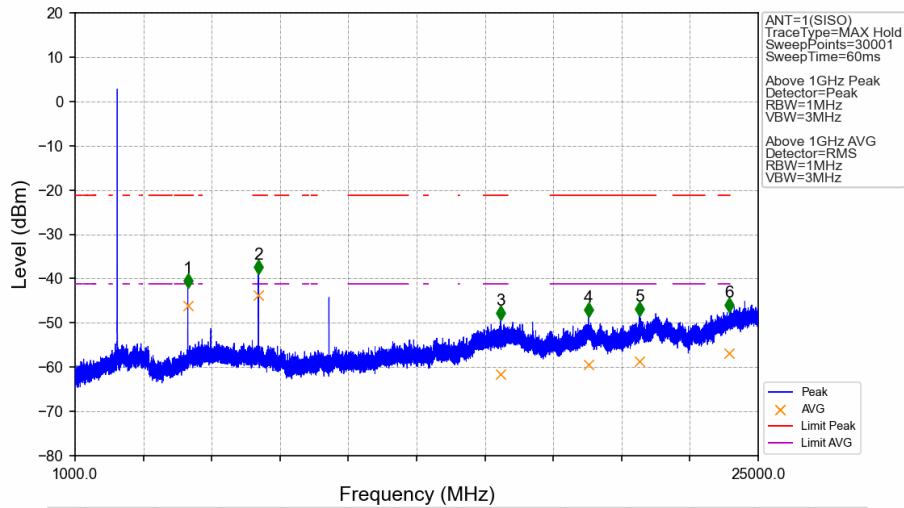
2M_MCH_2440MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4879.2	-40.77	-21.20	19.57	Pass	Peak	7	4879.2	-44.21	-41.20	3.01	Pass	AVG
2	7319.2	-42.72	-21.20	21.52	Pass	Peak	8	7319.2	-47.38	-41.20	6.18	Pass	AVG
3	19454.4	-49.51	-21.20	28.31	Pass	Peak	9	19454.4	-60.06	-41.20	18.86	Pass	AVG
4	21400	-47.85	-21.20	26.65	Pass	Peak	10	21400	-57.45	-41.20	16.25	Pass	AVG
5	22254.4	-49.14	-21.20	27.94	Pass	Peak	11	22254.4	-59.20	-41.20	18.00	Pass	AVG
6	23988.8	-47.25	-21.20	26.05	Pass	Peak	12	23988.8	-56.92	-41.20	15.72	Pass	AVG

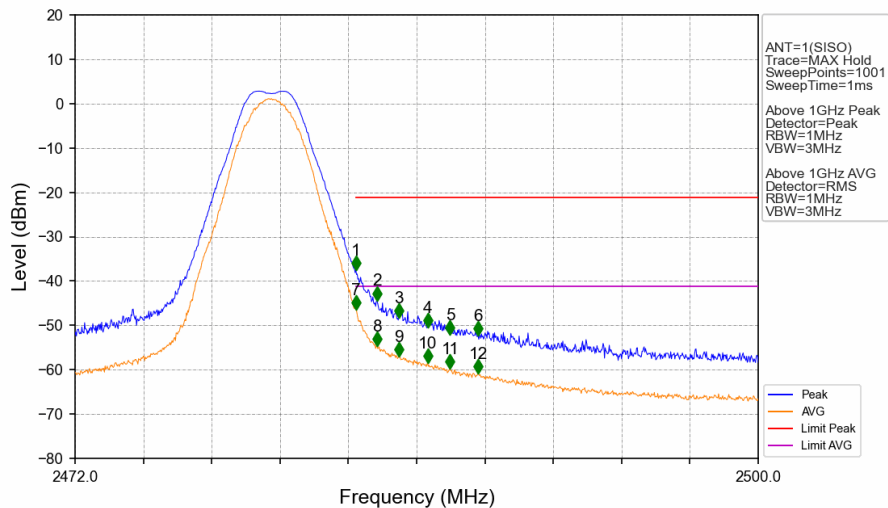


2M_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4959.2	-42.13	-21.20	20.93	Pass	Peak	7	4959.2	-46.07	-41.20	4.87	Pass	AVG
2	7441.6	-38.97	-21.20	17.77	Pass	Peak	8	7441.6	-43.71	-41.20	2.51	Pass	AVG
3	15952	-49.42	-21.20	28.22	Pass	Peak	9	15952	-61.60	-41.20	20.40	Pass	AVG
4	19037.6	-48.62	-21.20	27.42	Pass	Peak	10	19037.6	-59.34	-41.20	18.14	Pass	AVG
5	20830.4	-48.41	-21.20	27.21	Pass	Peak	11	20830.4	-58.70	-41.20	17.50	Pass	AVG
6	23990.4	-47.56	-21.20	26.36	Pass	Peak	12	23990.4	-56.92	-41.20	15.72	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	-37.48	-21.20	16.28	Pass	Peak	7	2483.508	-46.44	-41.20	5.24	Pass	AVG
2	2484.376	-44.34	-21.20	23.14	Pass	Peak	8	2484.376	-54.69	-41.20	13.49	Pass	AVG
3	2485.272	-48.24	-21.20	27.04	Pass	Peak	9	2485.272	-56.96	-41.20	15.76	Pass	AVG
4	2486.448	-50.40	-21.20	29.20	Pass	Peak	10	2486.448	-58.52	-41.20	17.32	Pass	AVG
5	2487.372	-52.00	-21.20	30.80	Pass	Peak	11	2487.372	-59.71	-41.20	18.51	Pass	AVG
6	2488.520	-52.34	-21.20	31.14	Pass	Peak	12	2488.520	-60.81	-41.20	19.61	Pass	AVG