



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Thermo Hygrometer

Test Model: GA3001

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Max Luo
Supervised by:	Nick Peng

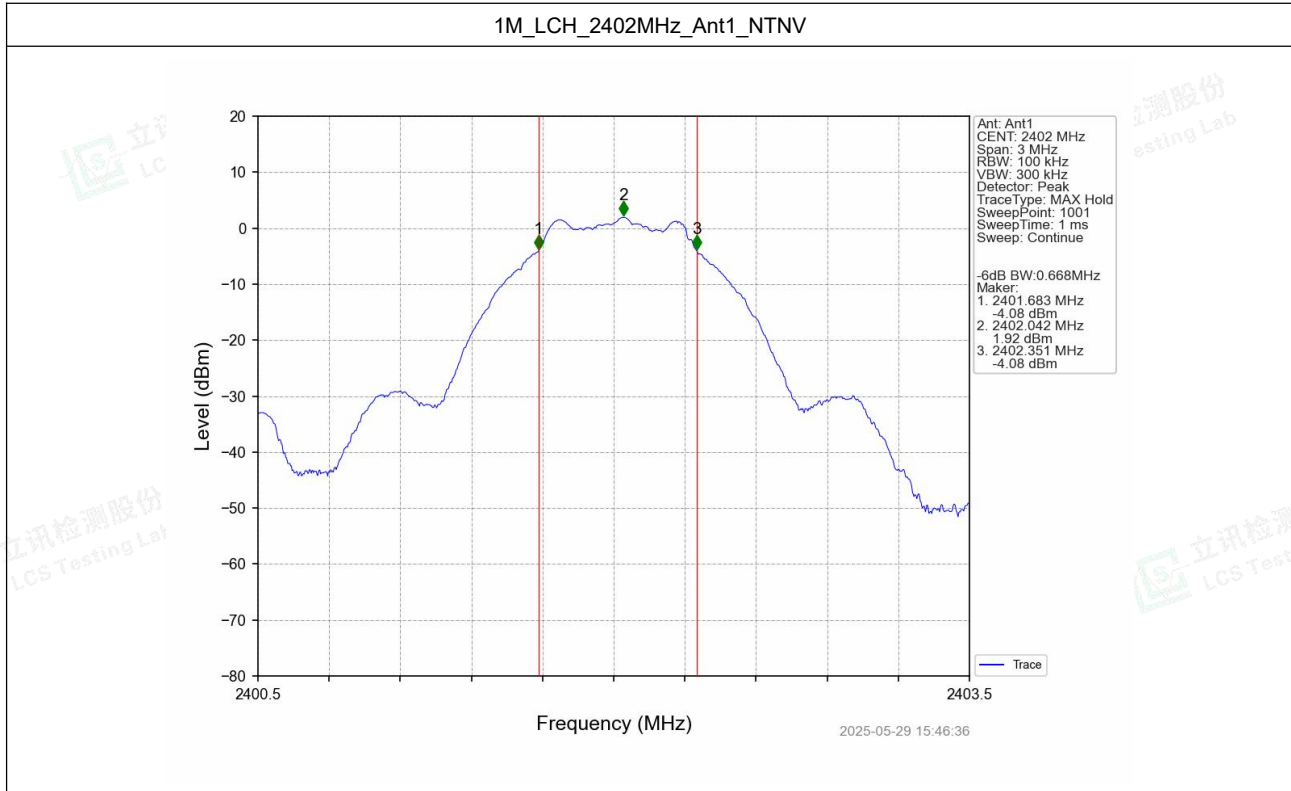


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A.1 -6dB Bandwidth

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.668	≥ 0.5	Pass
		2440	1	0.668	≥ 0.5	Pass
		2480	1	0.667	≥ 0.5	Pass



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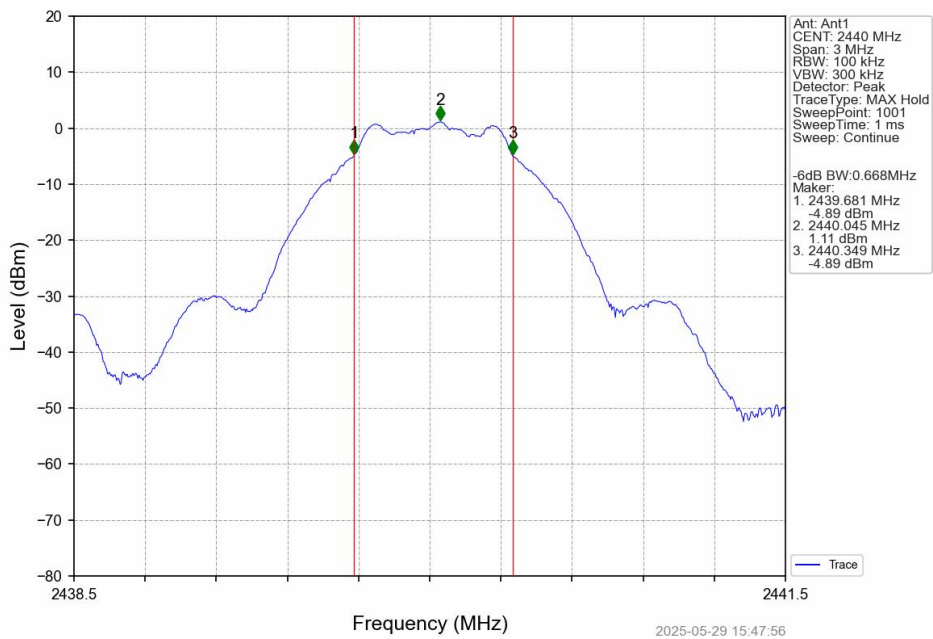
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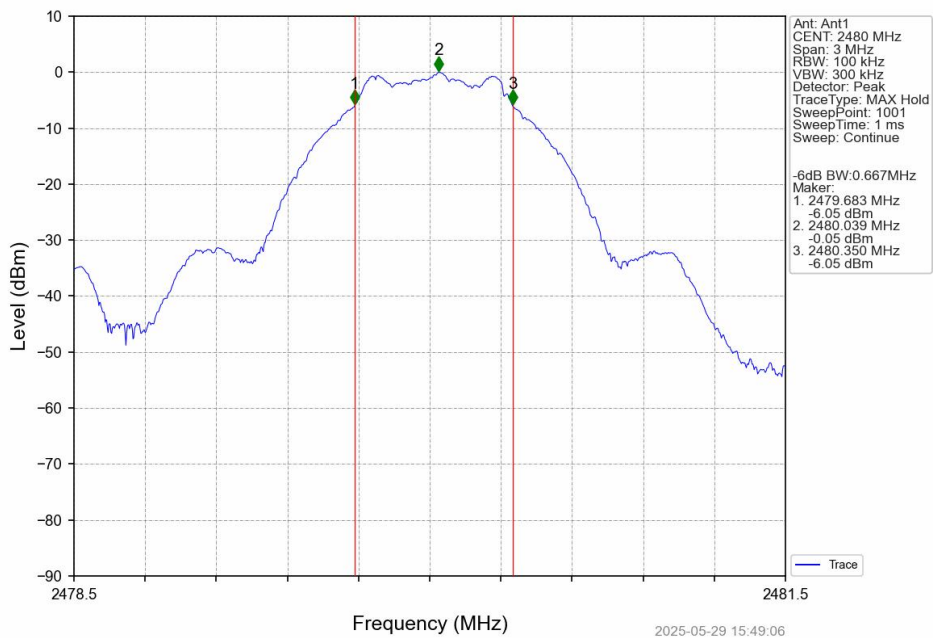
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1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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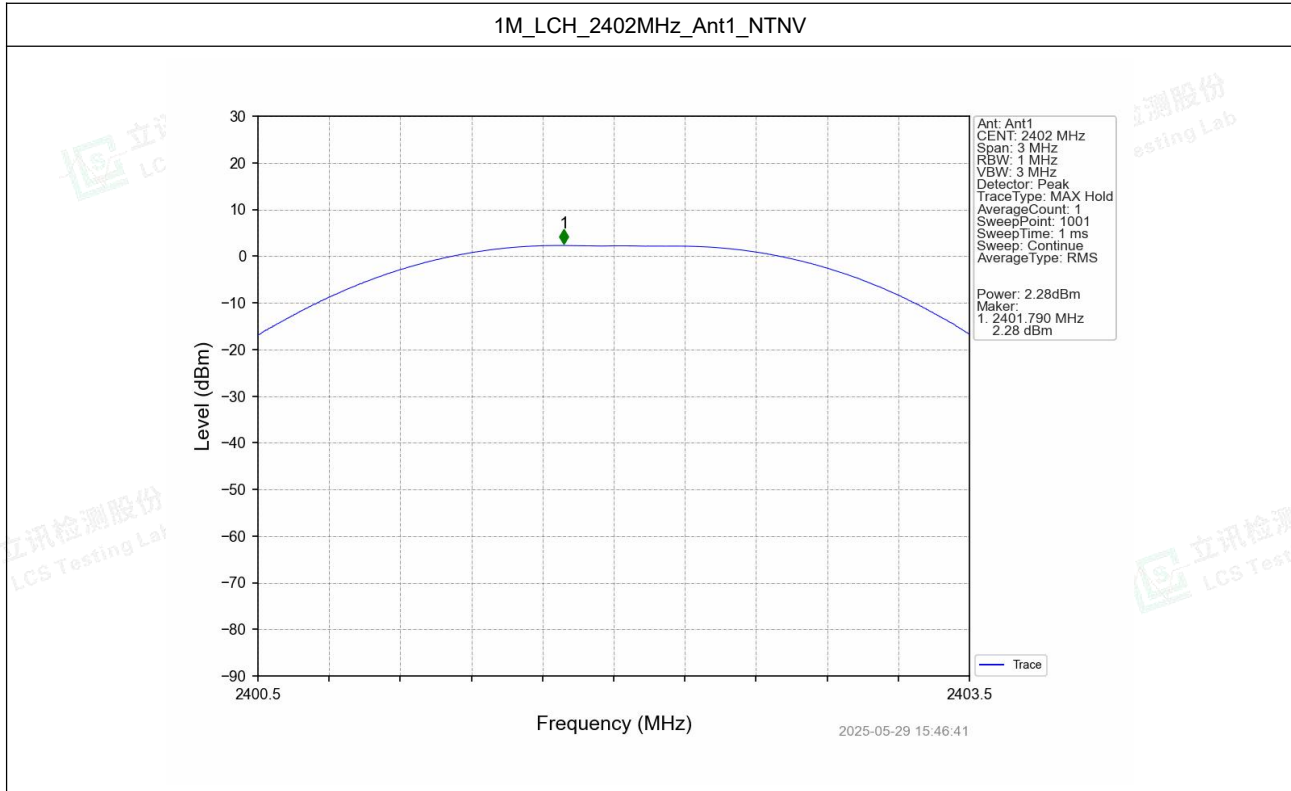
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A.2 Maximum Peak Conducted Output Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	2.28	<=30	Pass
		2440	1.48	<=30	Pass
		2480	0.31	<=30	Pass



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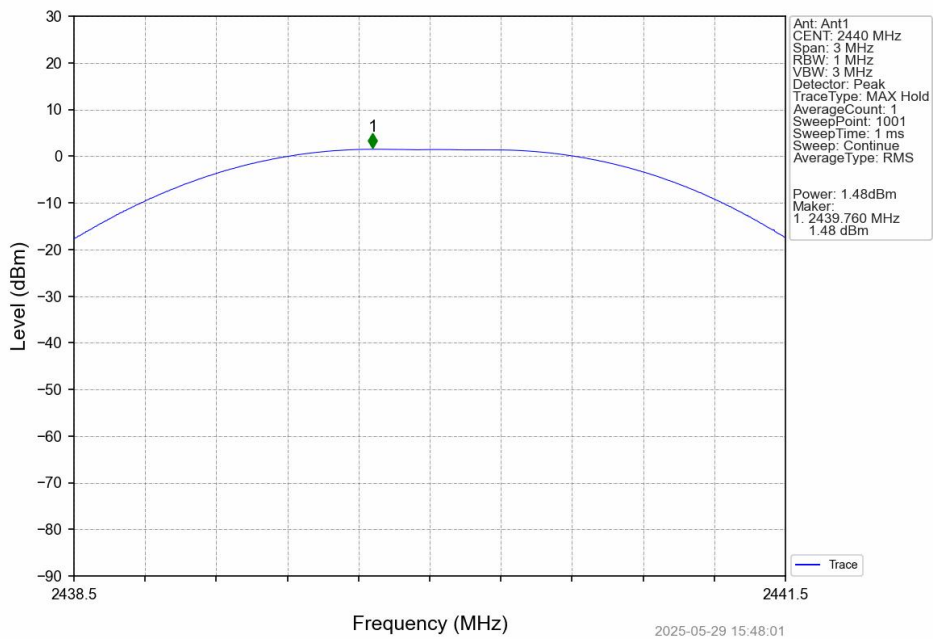
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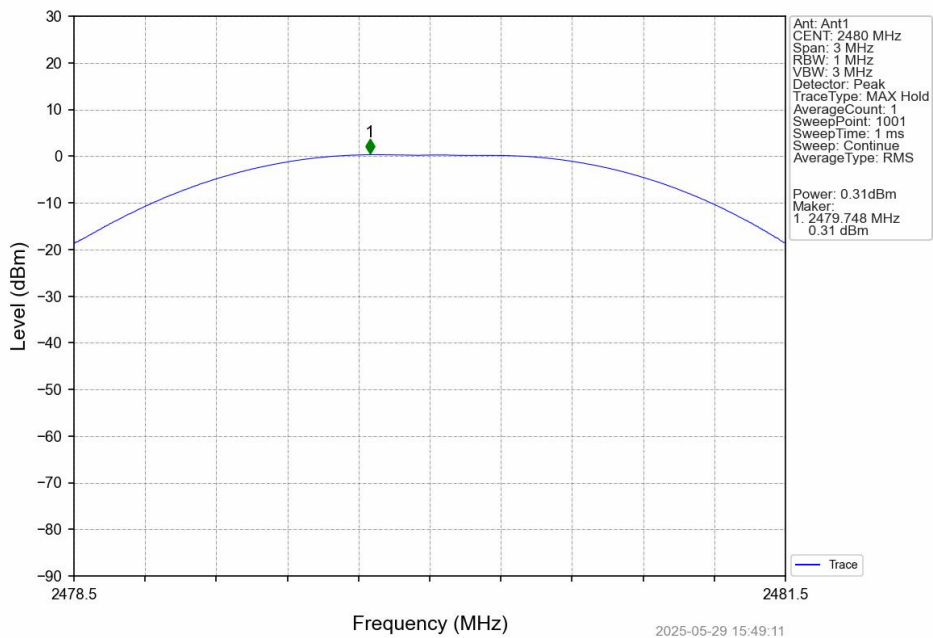
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1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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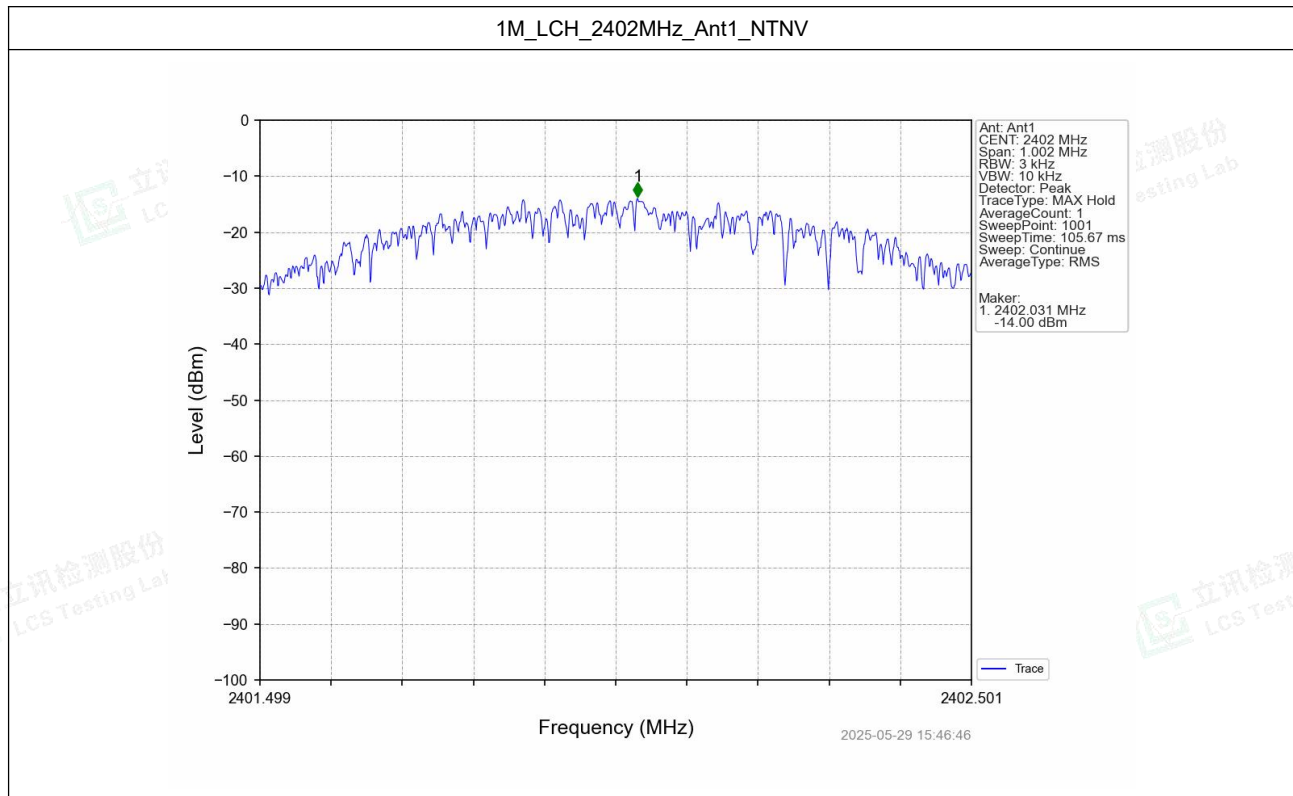
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A.3 Maximum Power Spectral Density Level

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-14.00	<=8	Pass
		2440	-14.77	<=8	Pass
		2480	-15.99	<=8	Pass

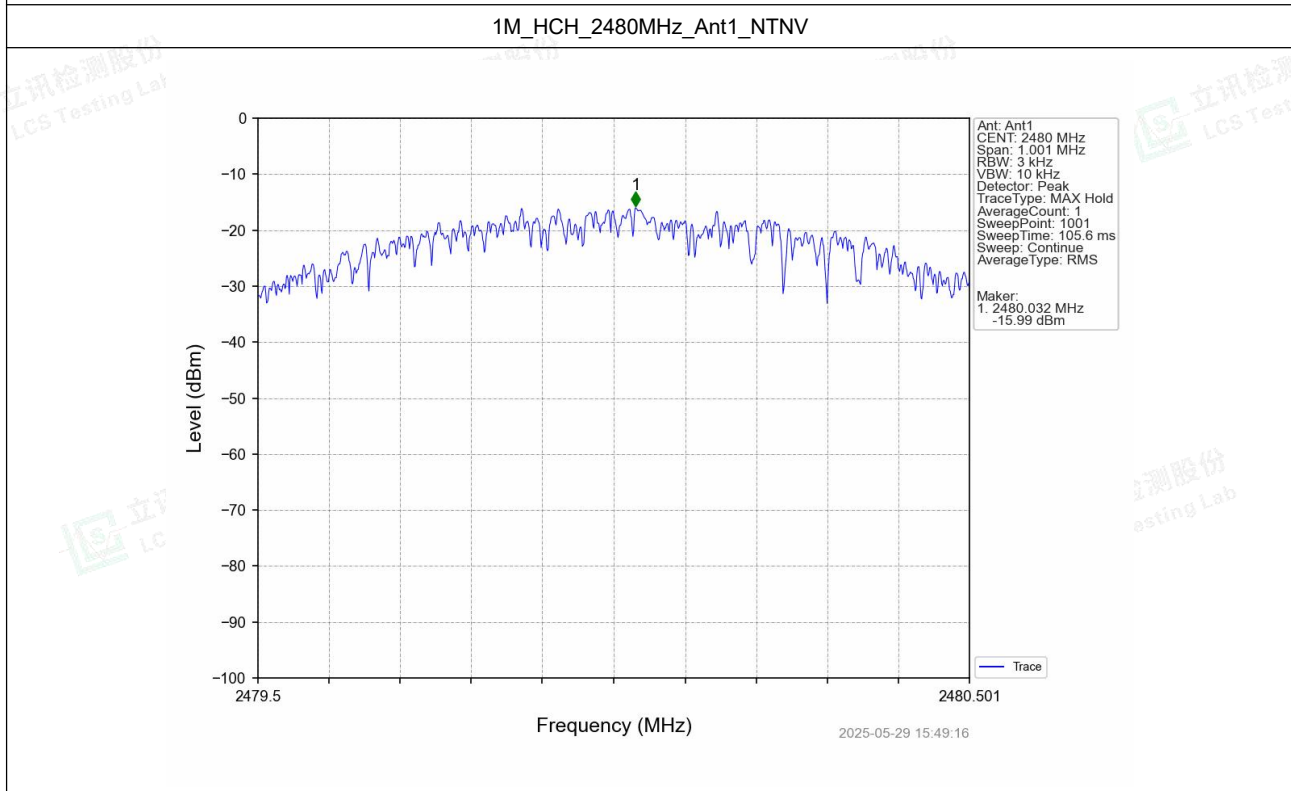
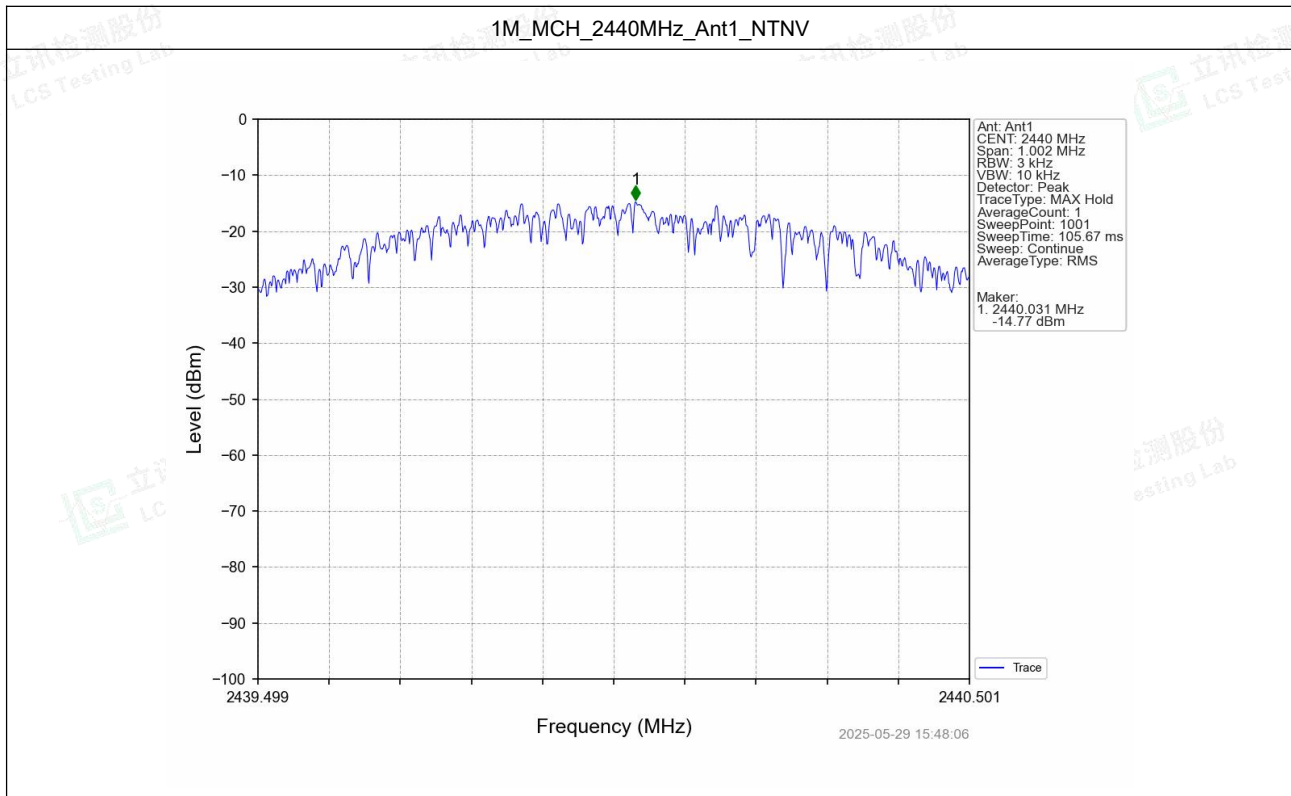


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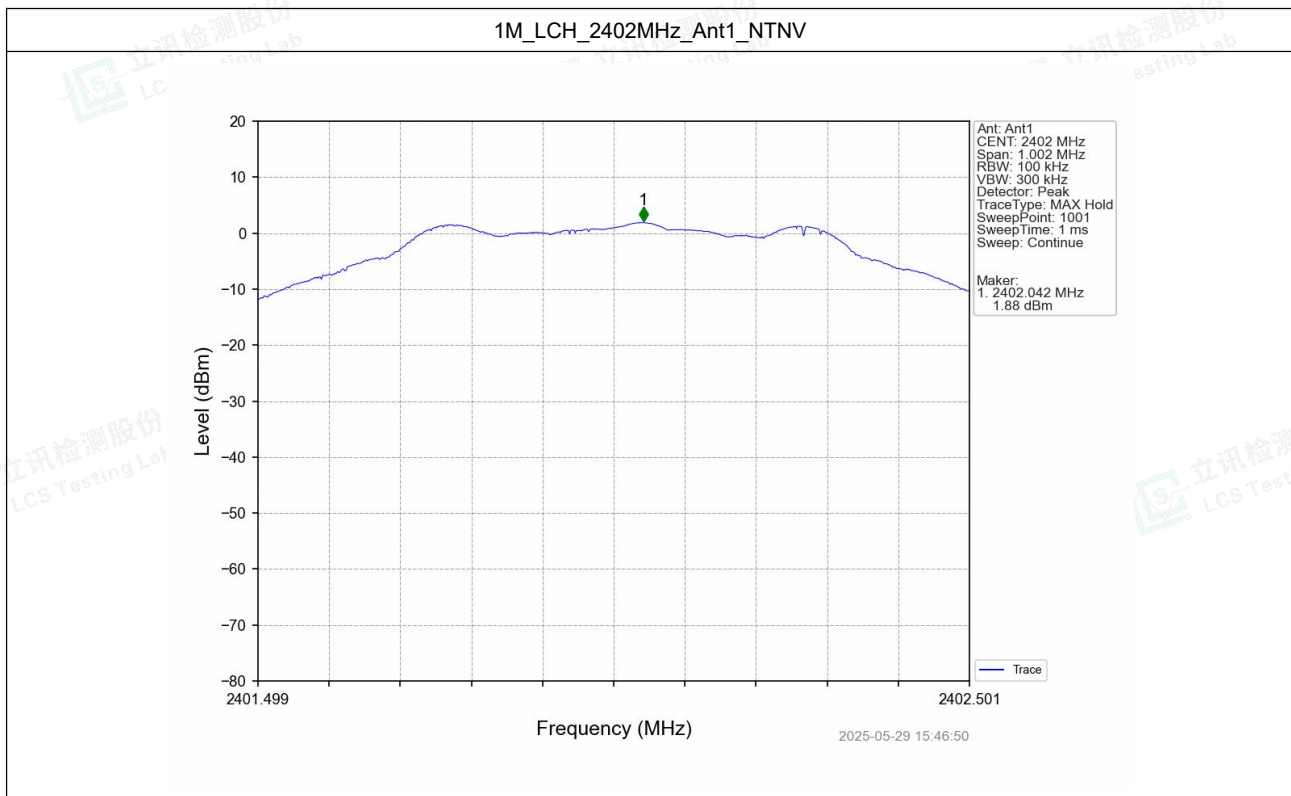
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A.4 Band Edge

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	1.88	-18.12	Pass
		2440	1	1.09	-18.91	Pass
		2480	1	-0.10	-20.10	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.



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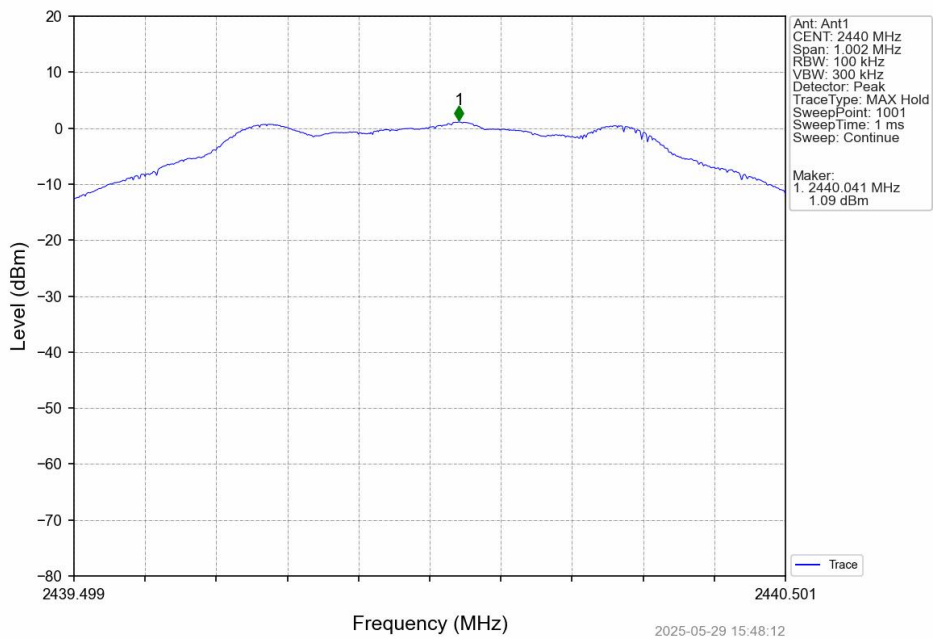
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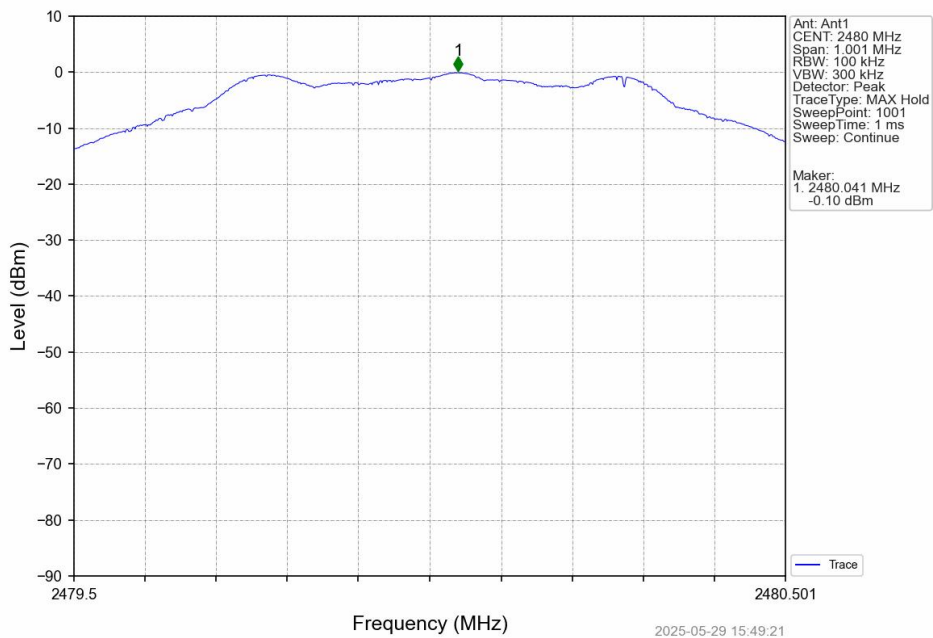
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1M_MCH_2440MHz_Ant1_NTNV

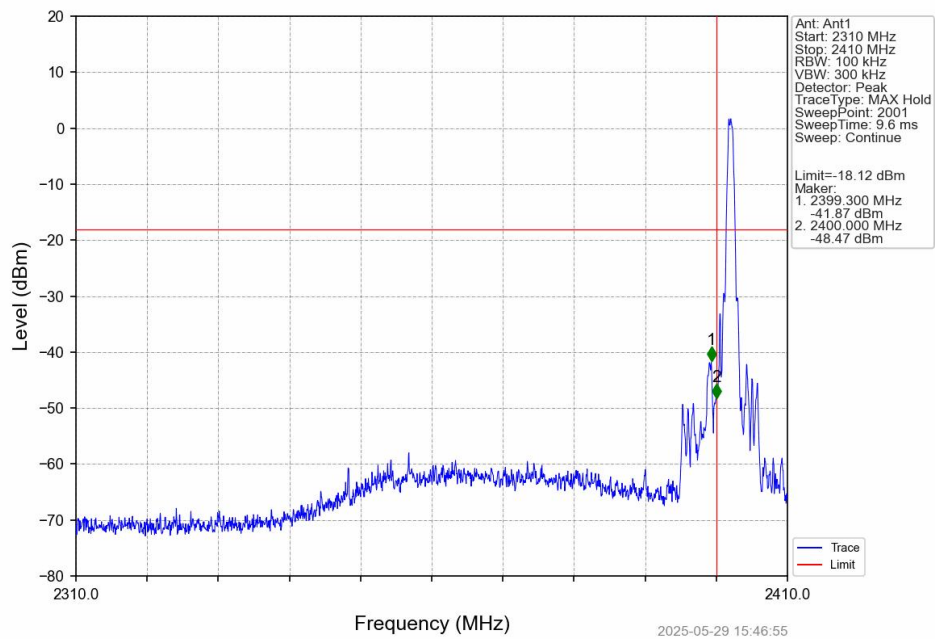


1M_HCH_2480MHz_Ant1_NTNV

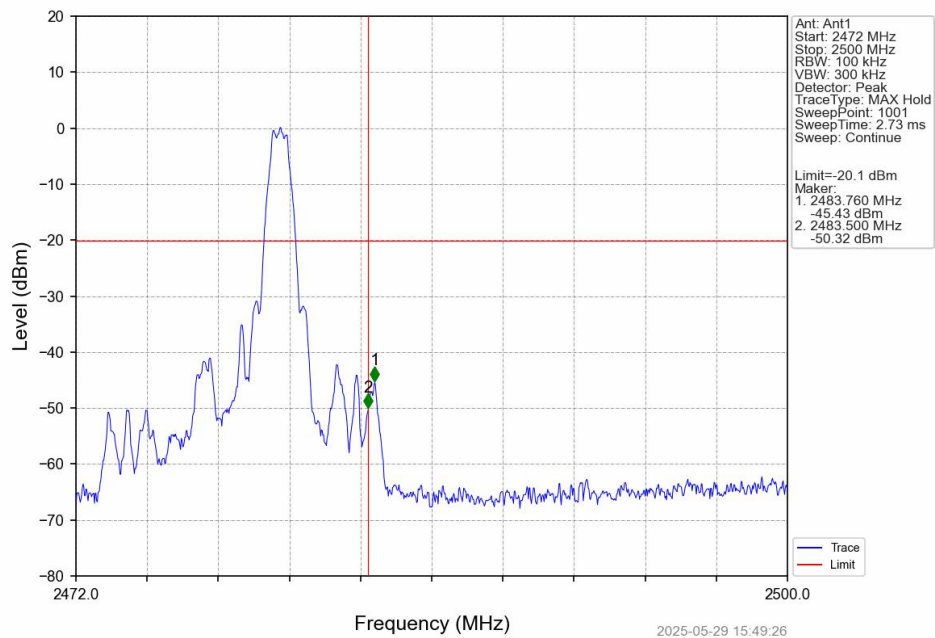




1M_LCH_2402MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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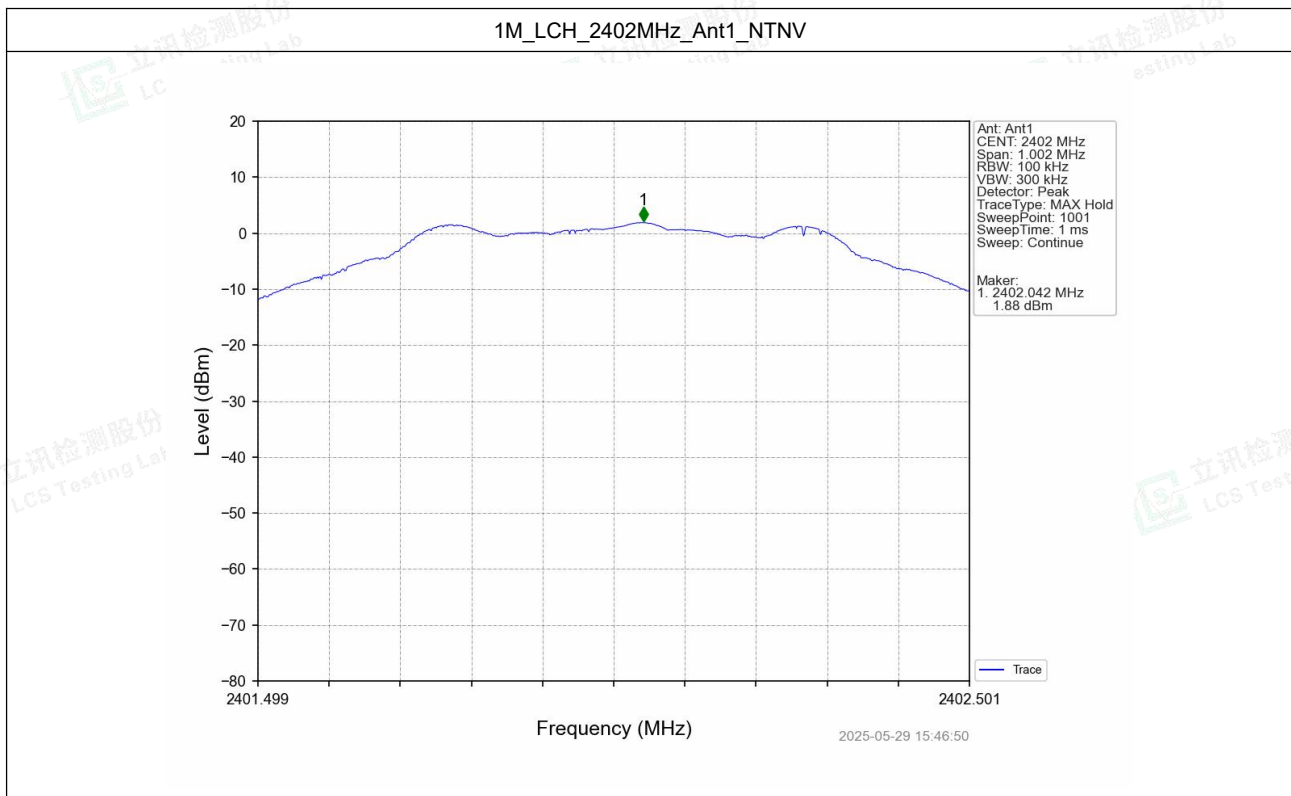
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A.5 Conducted RF Spurious Emission

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	1.88
		2440	1	1.09
		2480	1	-0.10

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.



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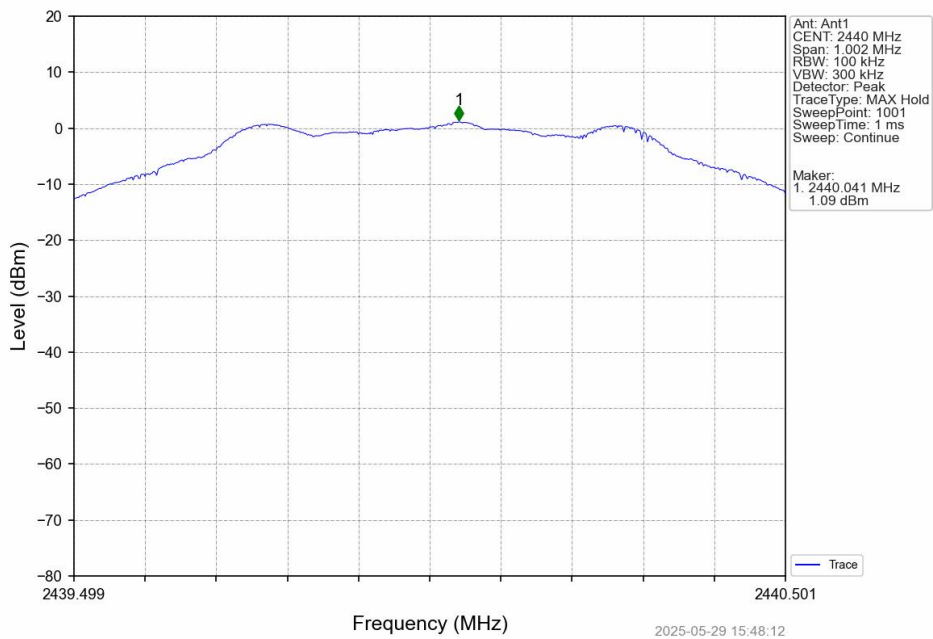
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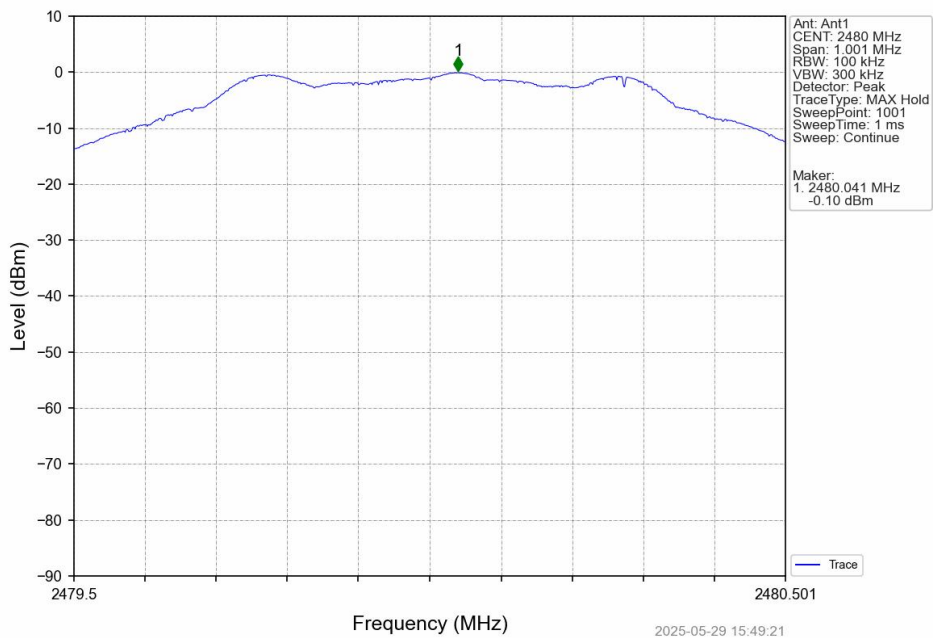
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1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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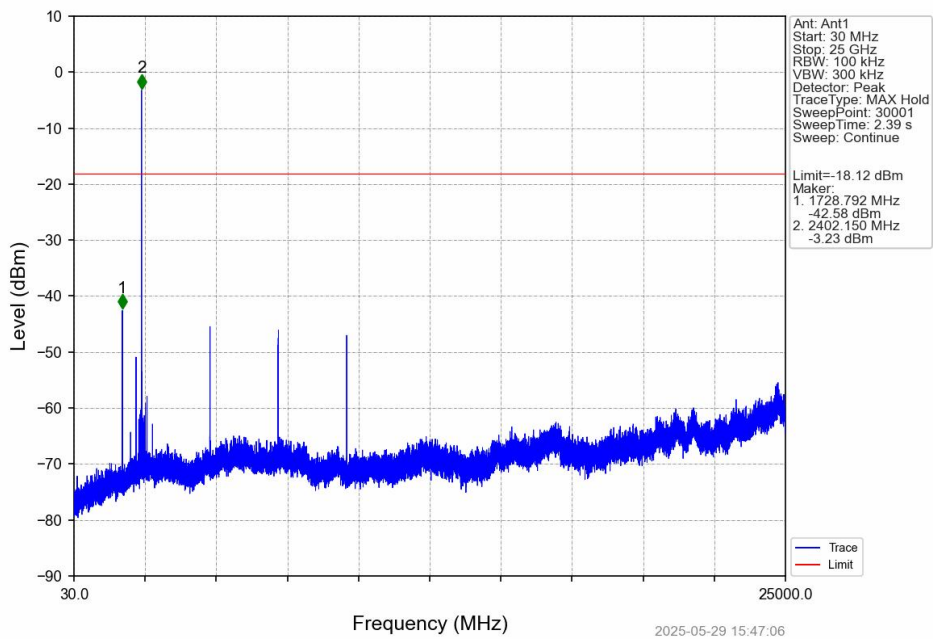
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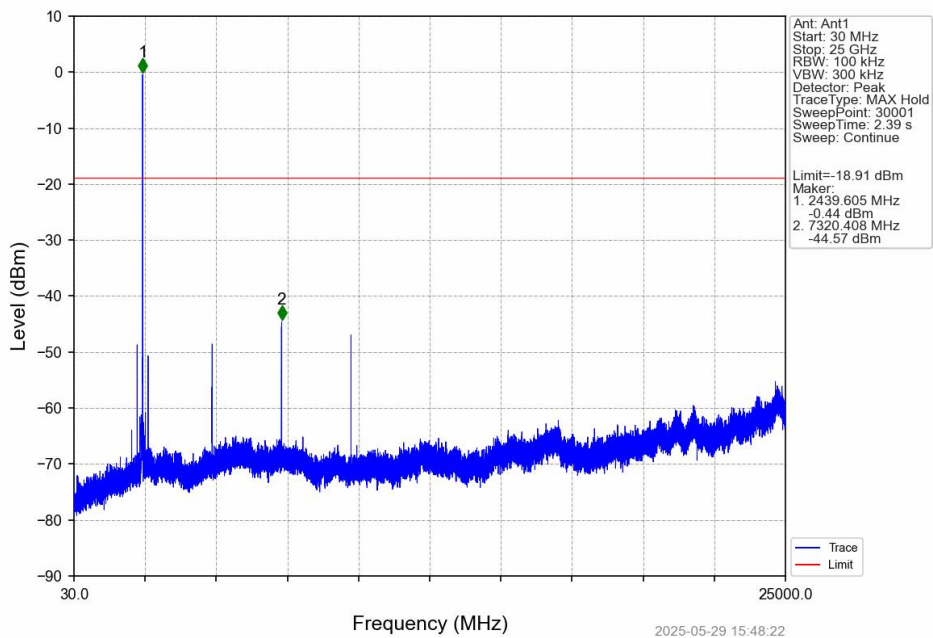
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1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

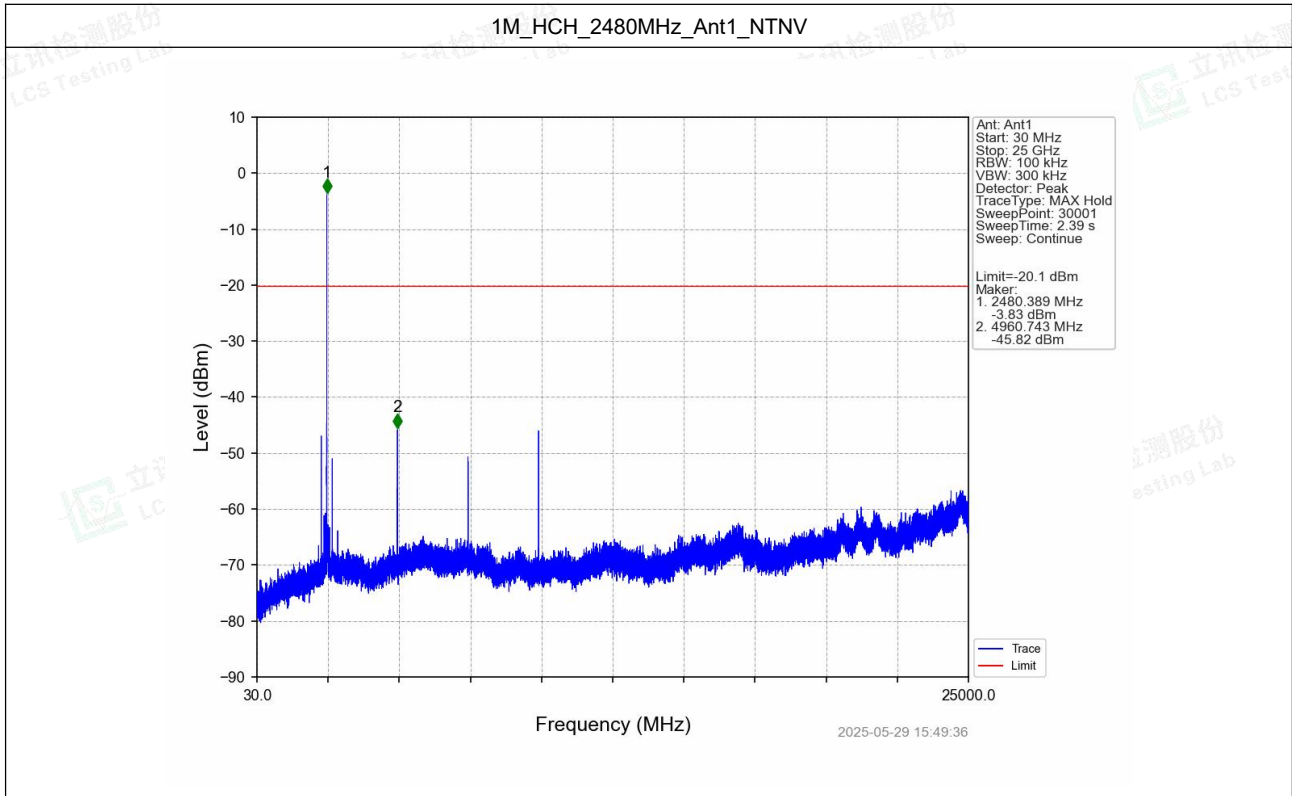


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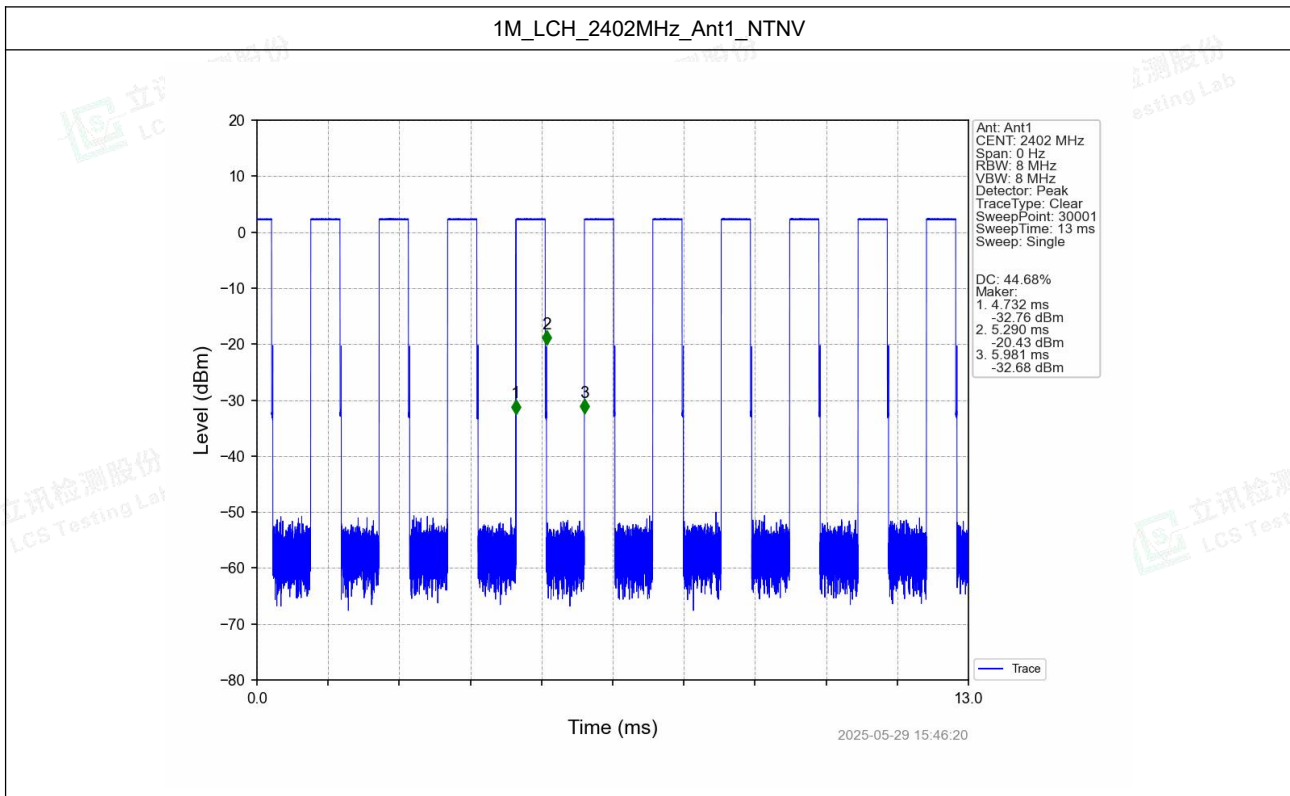
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A.6 Duty Cycle

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	1.88
		2440	1	1.09
		2480	1	-0.10

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.



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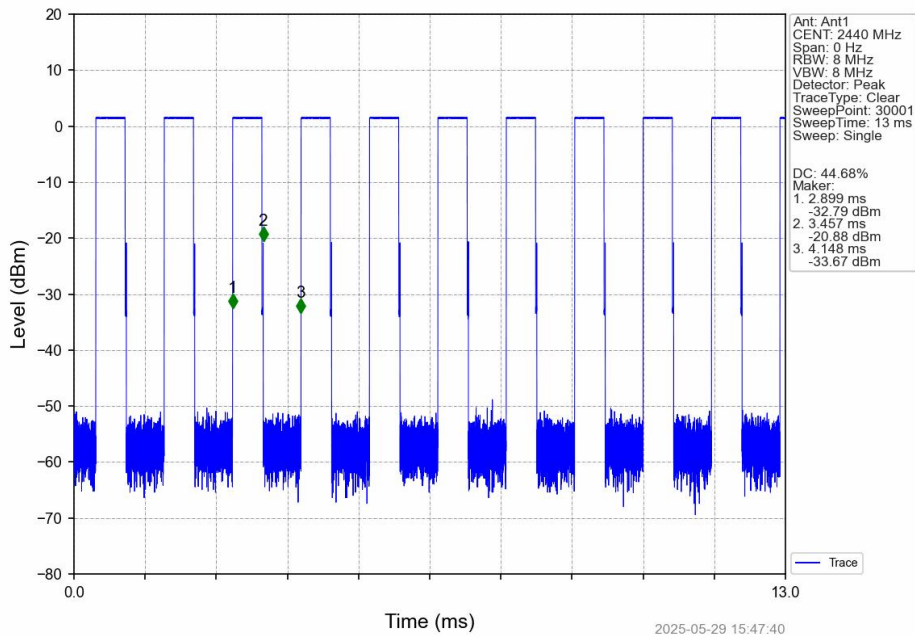
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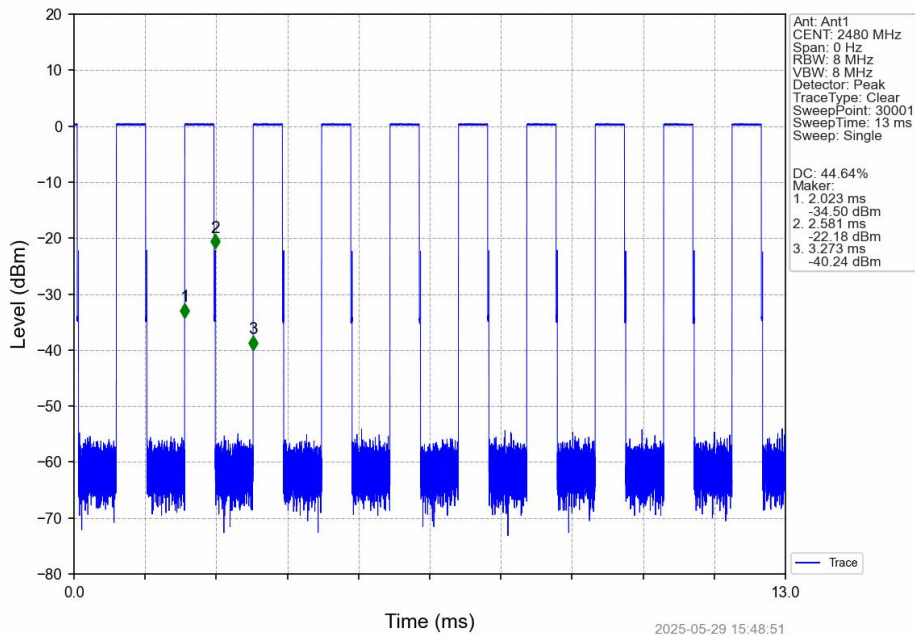
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1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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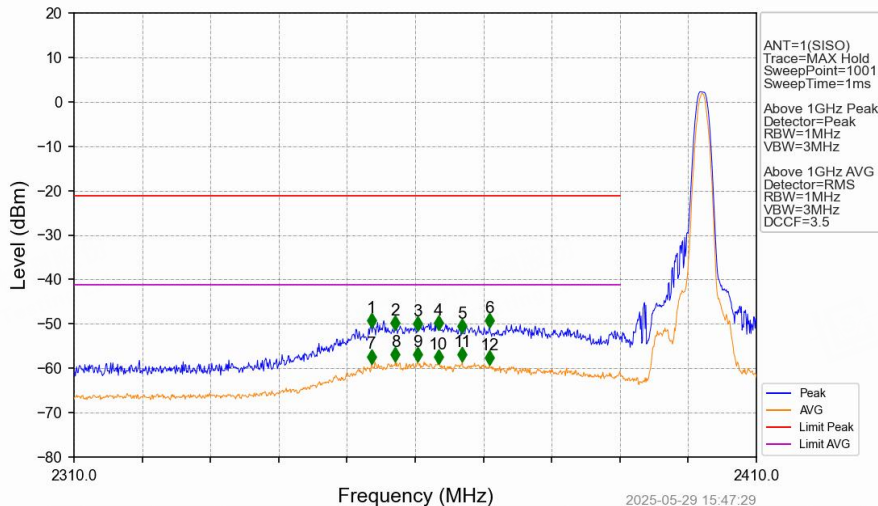
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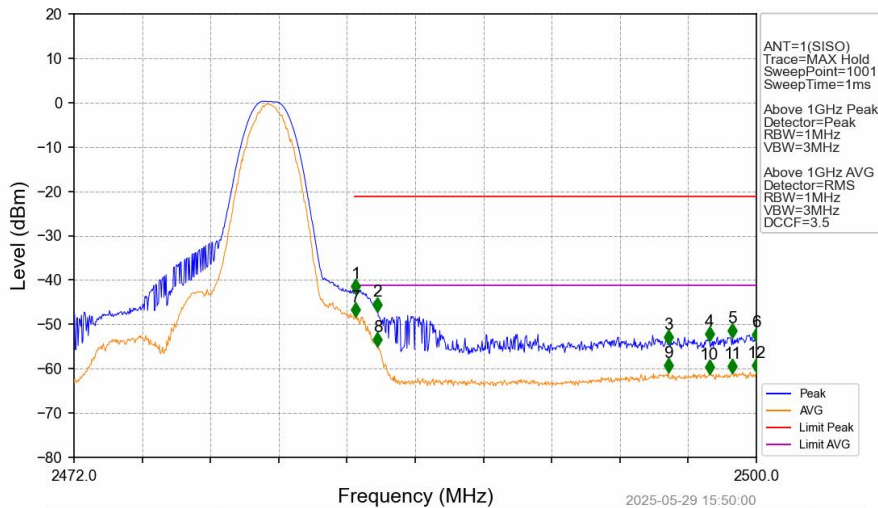
A.7 Restrict Band

1M_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	2353.600	-50.82	-21.20	29.62	Pass	Peak	7	2353.600	-58.91	-41.20	17.71	Pass	AVG
2	2357.100	-51.33	-21.20	30.13	Pass	Peak	8	2357.100	-58.54	-41.20	17.34	Pass	AVG
3	2360.300	-51.51	-21.20	30.31	Pass	Peak	9	2360.300	-58.47	-41.20	17.27	Pass	AVG
4	2363.400	-51.37	-21.20	30.17	Pass	Peak	10	2363.400	-58.95	-41.20	17.75	Pass	AVG
5	2366.900	-52.06	-21.20	30.86	Pass	Peak	11	2366.900	-58.54	-41.20	17.34	Pass	AVG
6	2370.900	-50.74	-21.20	29.54	Pass	Peak	12	2370.900	-59.24	-41.20	18.04	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	2483.564	-43.05	-21.20	21.85	Pass	Peak	7	2483.564	-48.29	-41.20	7.09	Pass	AVG
2	2484.460	-47.06	-21.20	25.86	Pass	Peak	8	2484.460	-55.05	-41.20	13.85	Pass	AVG
3	2496.388	-54.46	-21.20	33.26	Pass	Peak	9	2496.388	-60.90	-41.20	19.70	Pass	AVG
4	2498.068	-53.65	-21.20	32.45	Pass	Peak	10	2498.068	-61.11	-41.20	19.91	Pass	AVG
5	2499.020	-53.07	-21.20	31.87	Pass	Peak	11	2499.020	-61.08	-41.20	19.88	Pass	AVG
6	2500.000	-53.86	-21.20	32.66	Pass	Peak	12	2500.000	-60.74	-41.20	19.54	Pass	AVG



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