



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: PeriMonkey Tattoo Transfer Printer

Test Model: ALD-P930

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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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



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B.1 -6dB Bandwidth

1.1 Test Result

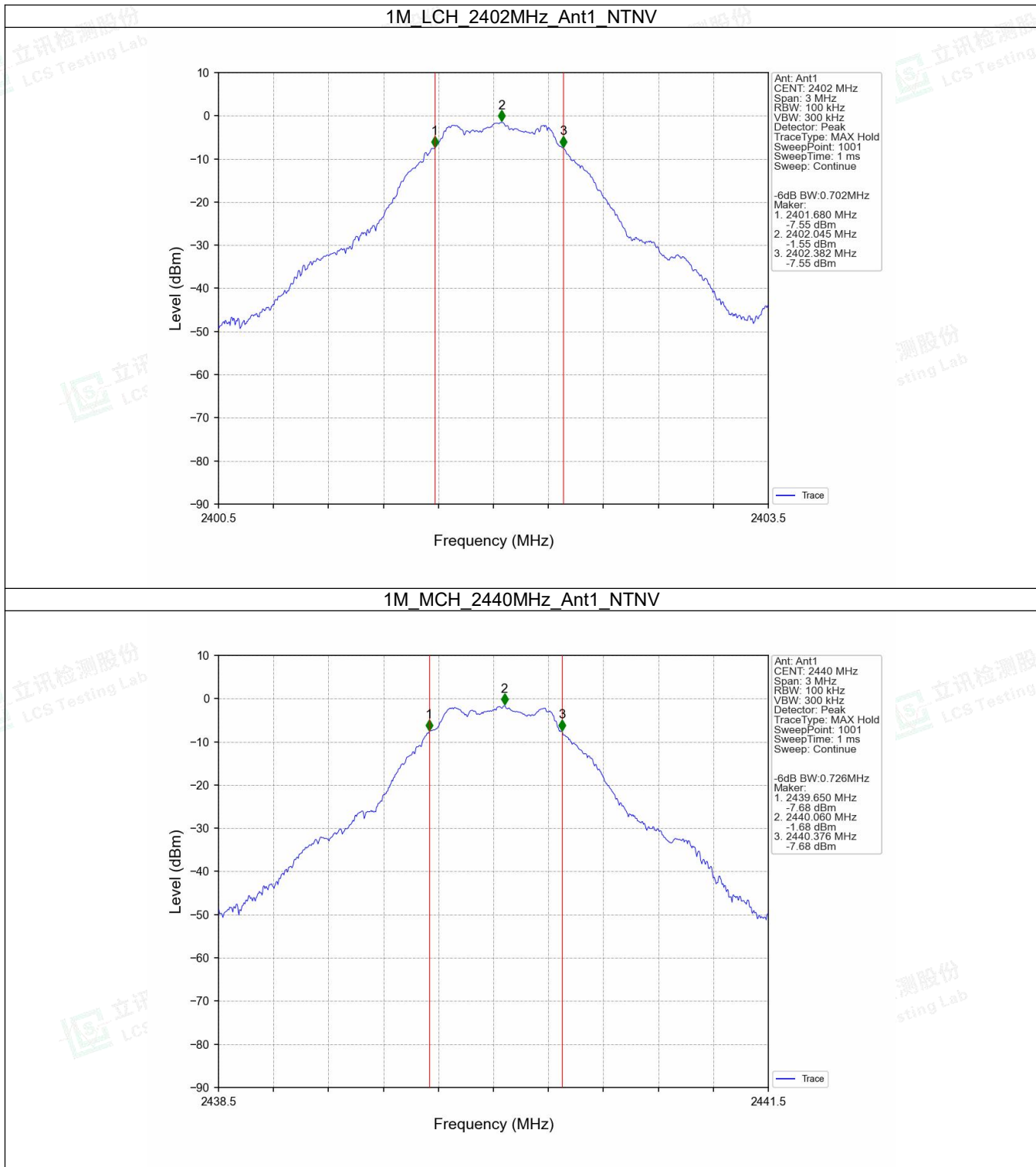
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.702	≥ 0.5	Pass
		2440	1	0.726	≥ 0.5	Pass
		2480	1	0.712	≥ 0.5	Pass

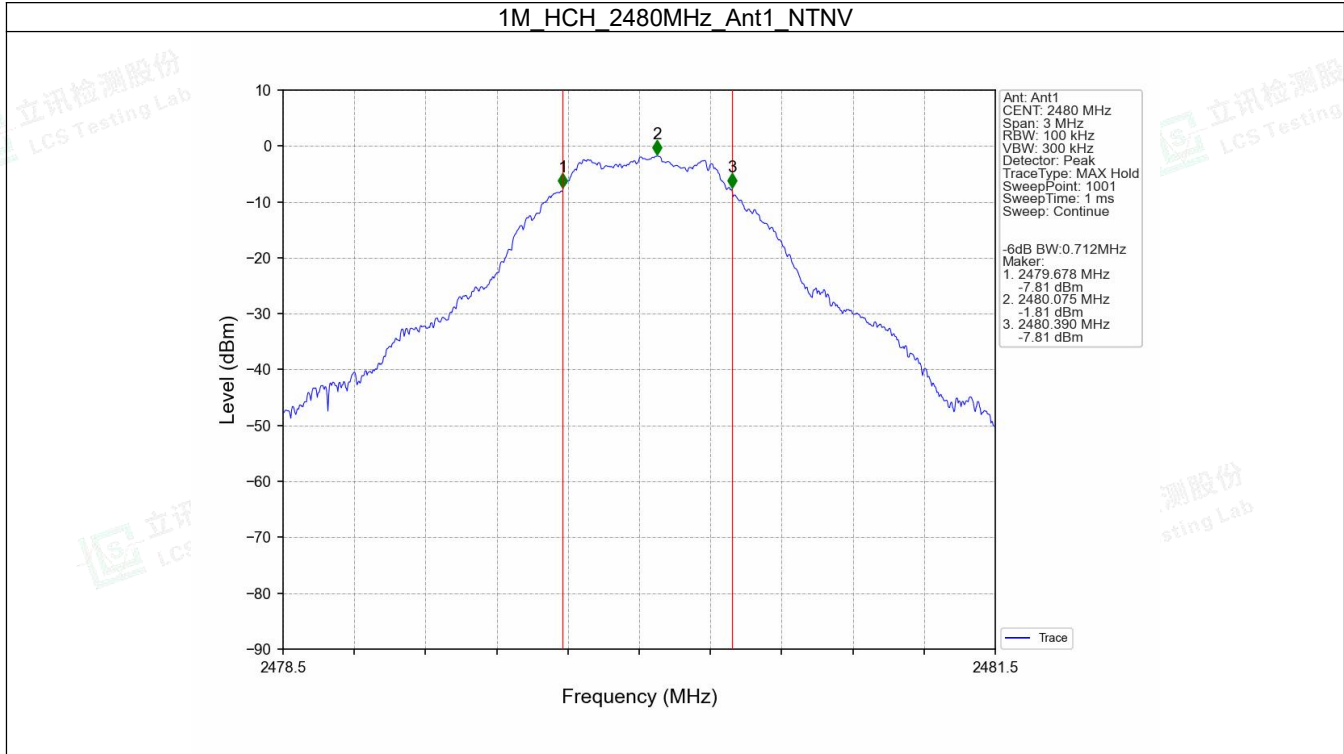


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1.2 Test Graph







B.2 Maximum Peak Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-1.36	<=30	Pass
		2440	-1.30	<=30	Pass
		2480	-1.49	<=30	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;

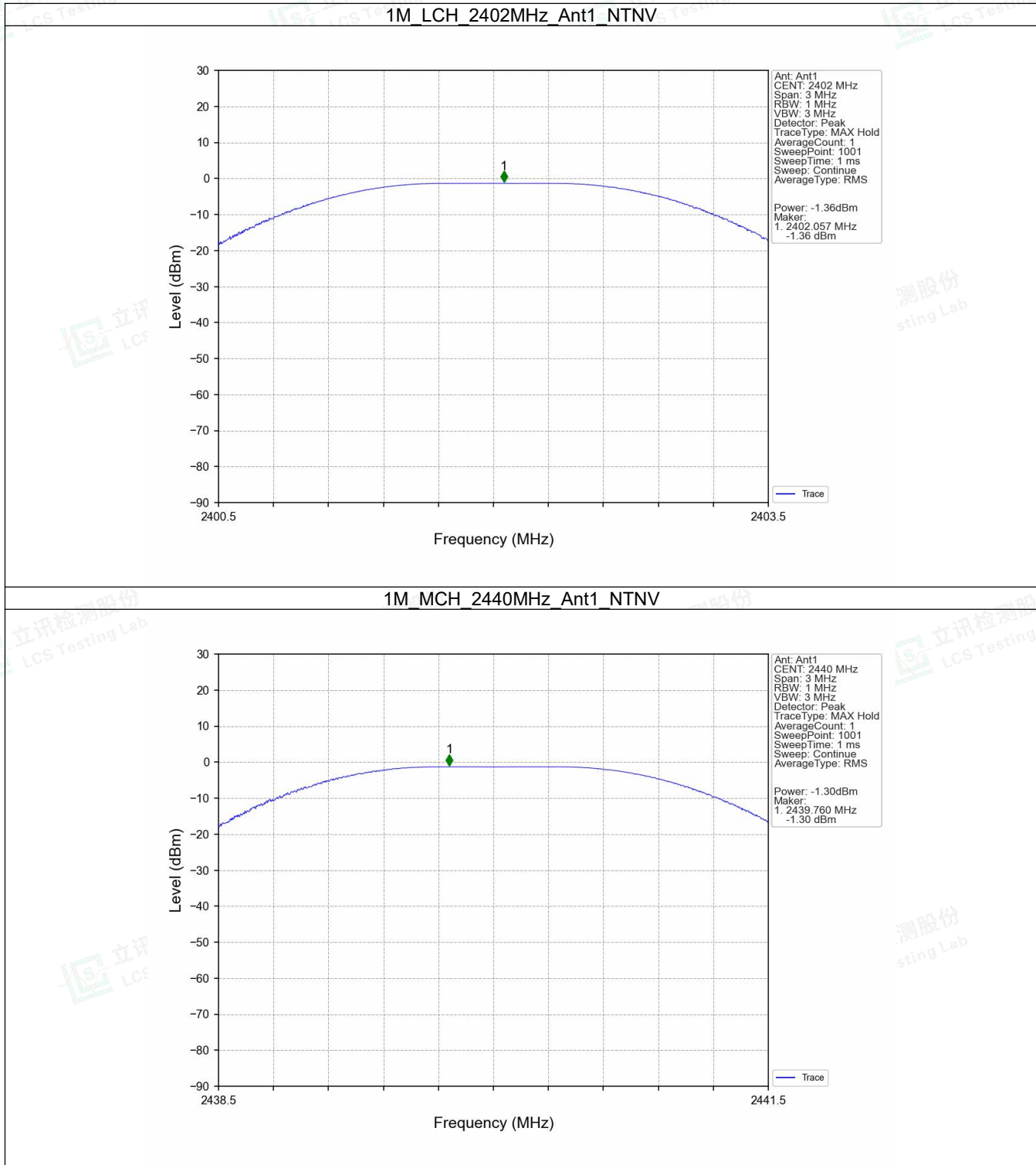


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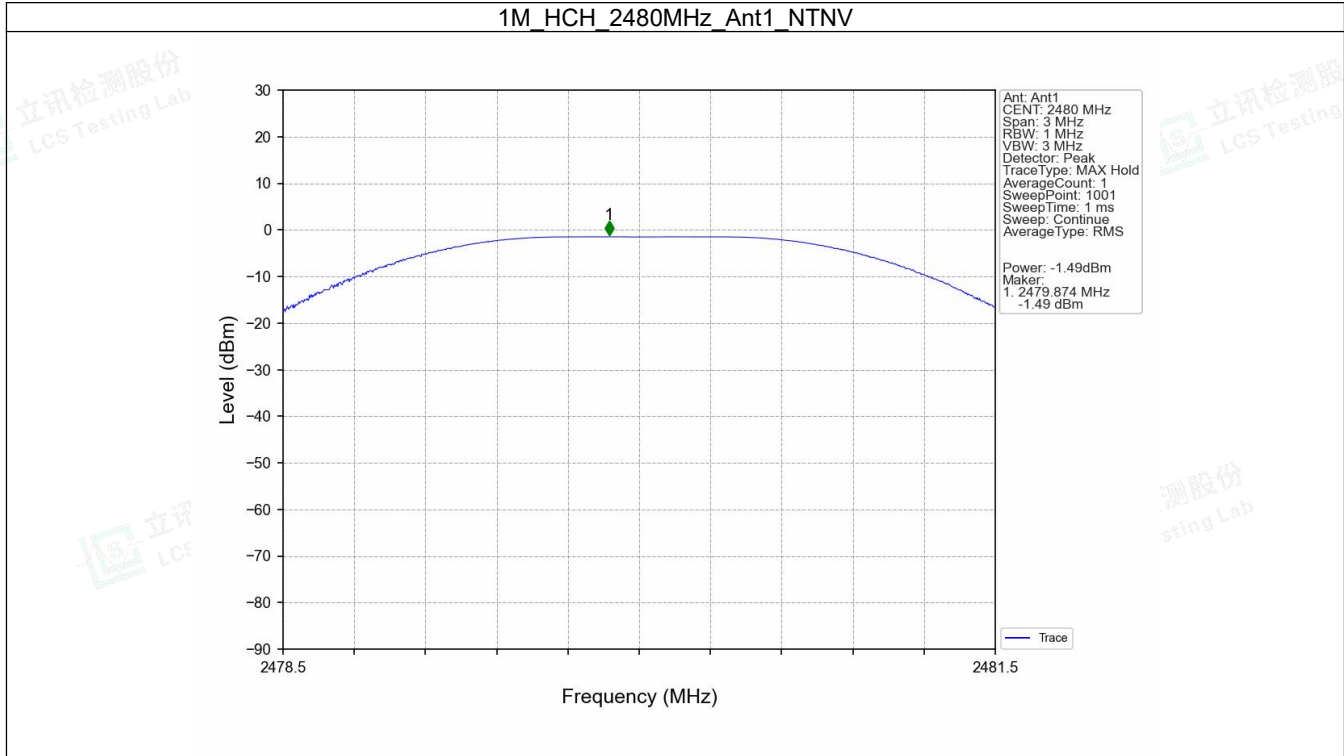


2.2 Test Graph

2.2.1 Power



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B.3 Maximum Power Spectral Density

3.1 Test Result

3.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-17.01	<=8	Pass
		2440	-17.21	<=8	Pass
		2480	-15.83	<=8	Pass

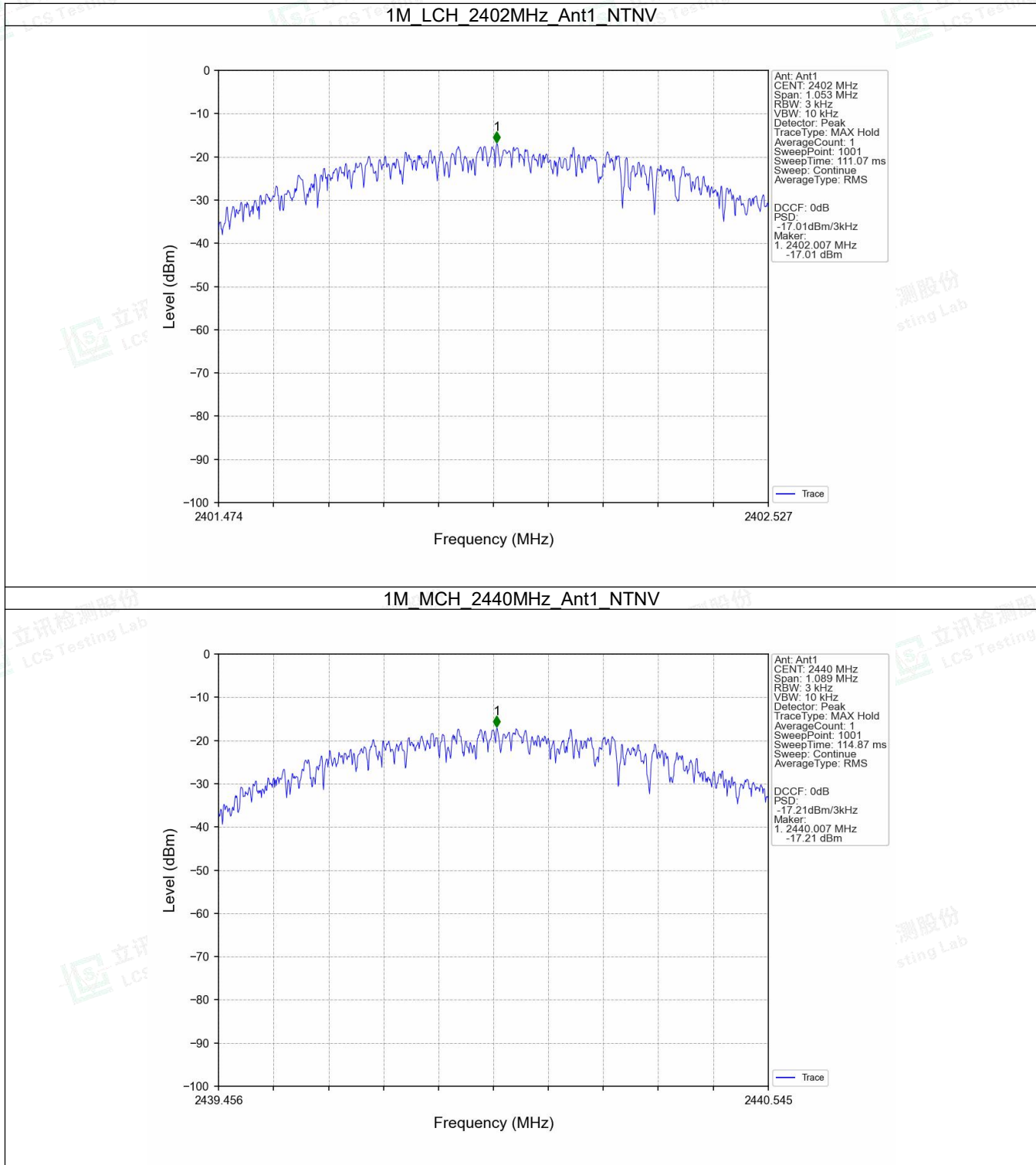
Note1: Antenna Gain: Ant1: 0.00dBi;



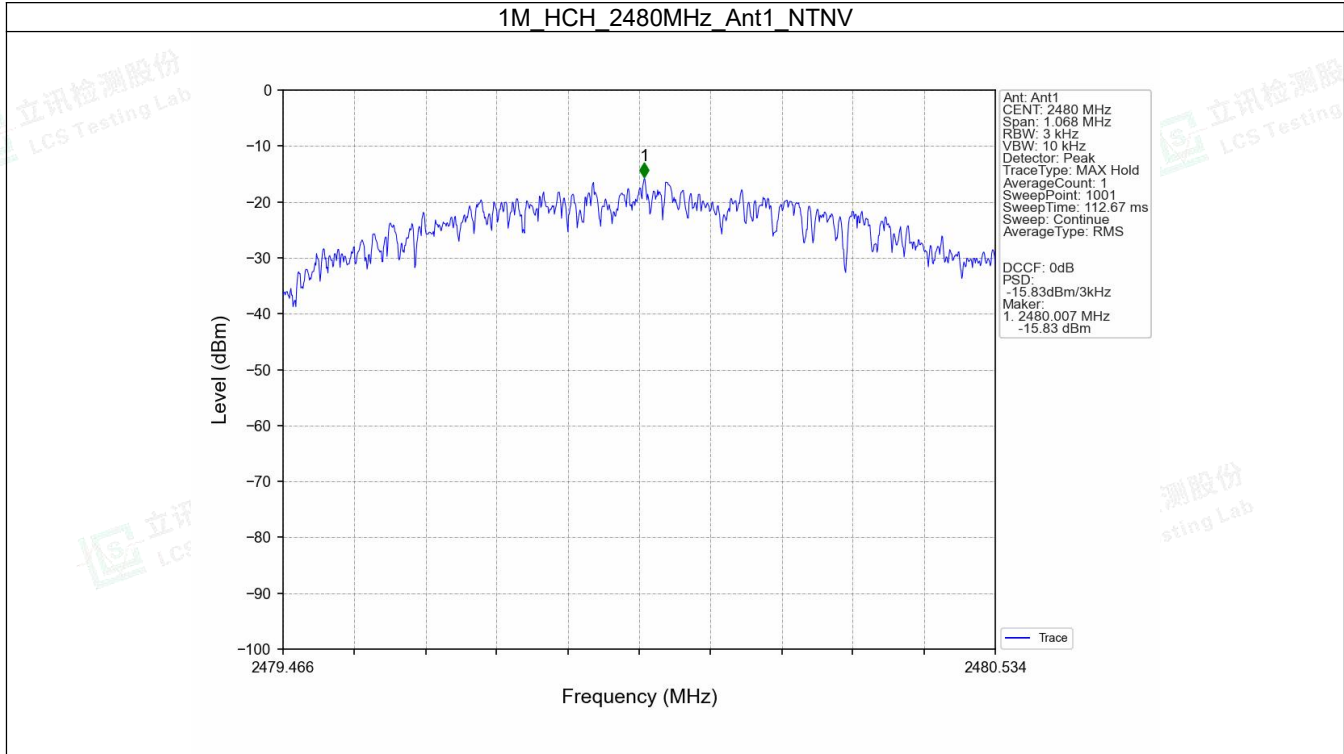


3.2 Test Graph

3.2.1 PSD



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B.4 Band Edge

4.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-1.65	-21.65	Pass
		2440	1	-1.65	-21.65	Pass
		2480	1	-1.65	-21.65	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.

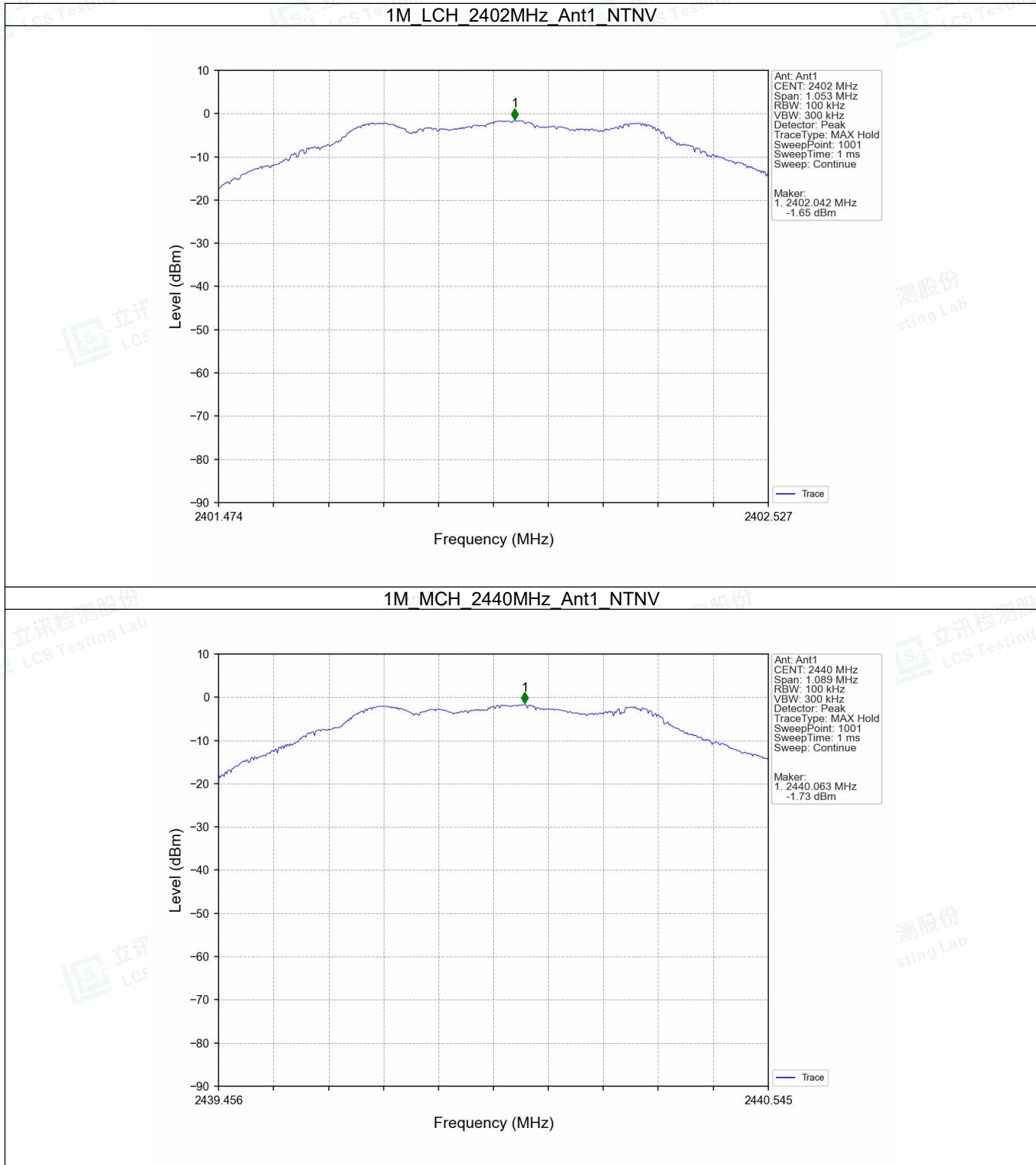


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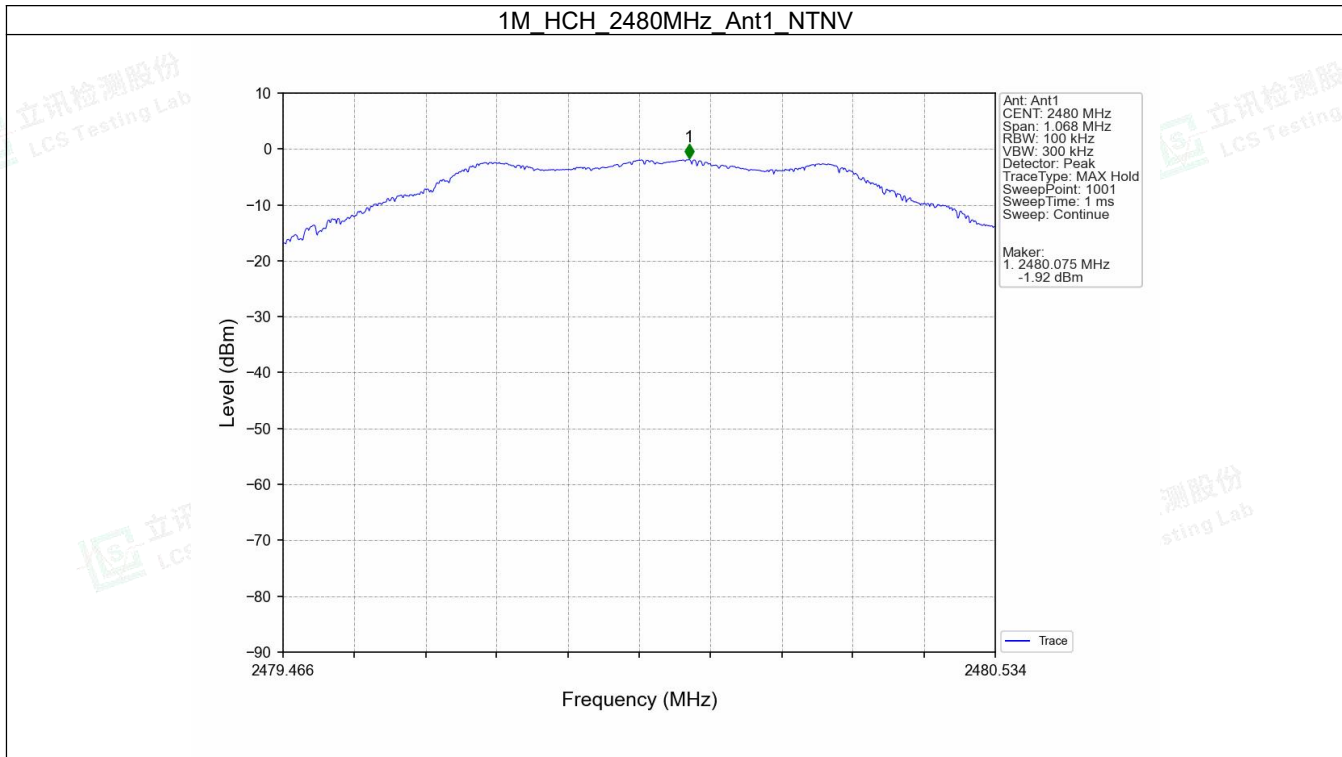


4.2 Test Graph

4.2.1 Ref

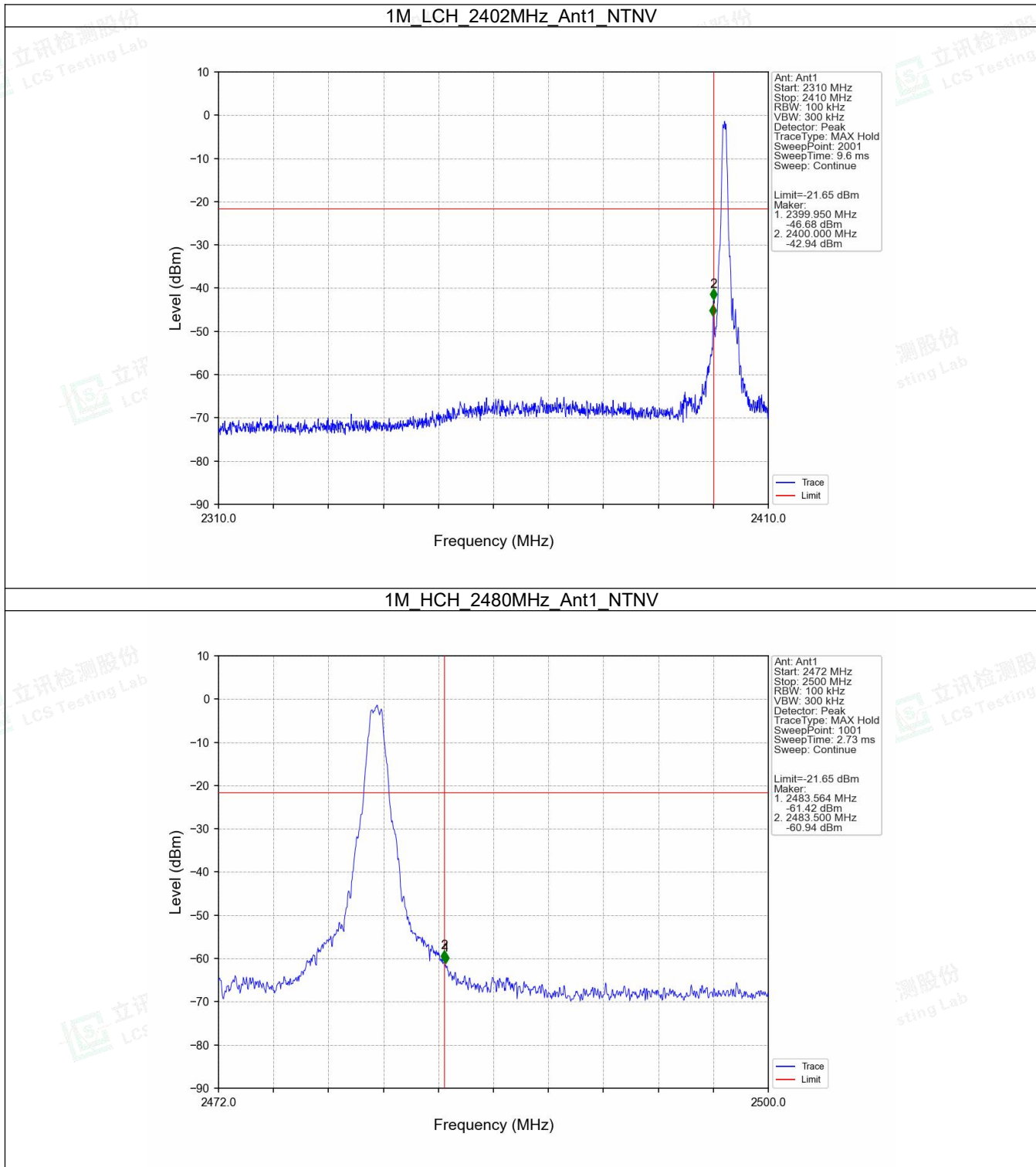


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4.2.2 Band Edge





B.5 Conducted RF Spurious Emission

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-1.65
		2440	1	-1.73
		2480	1	-1.92
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.				

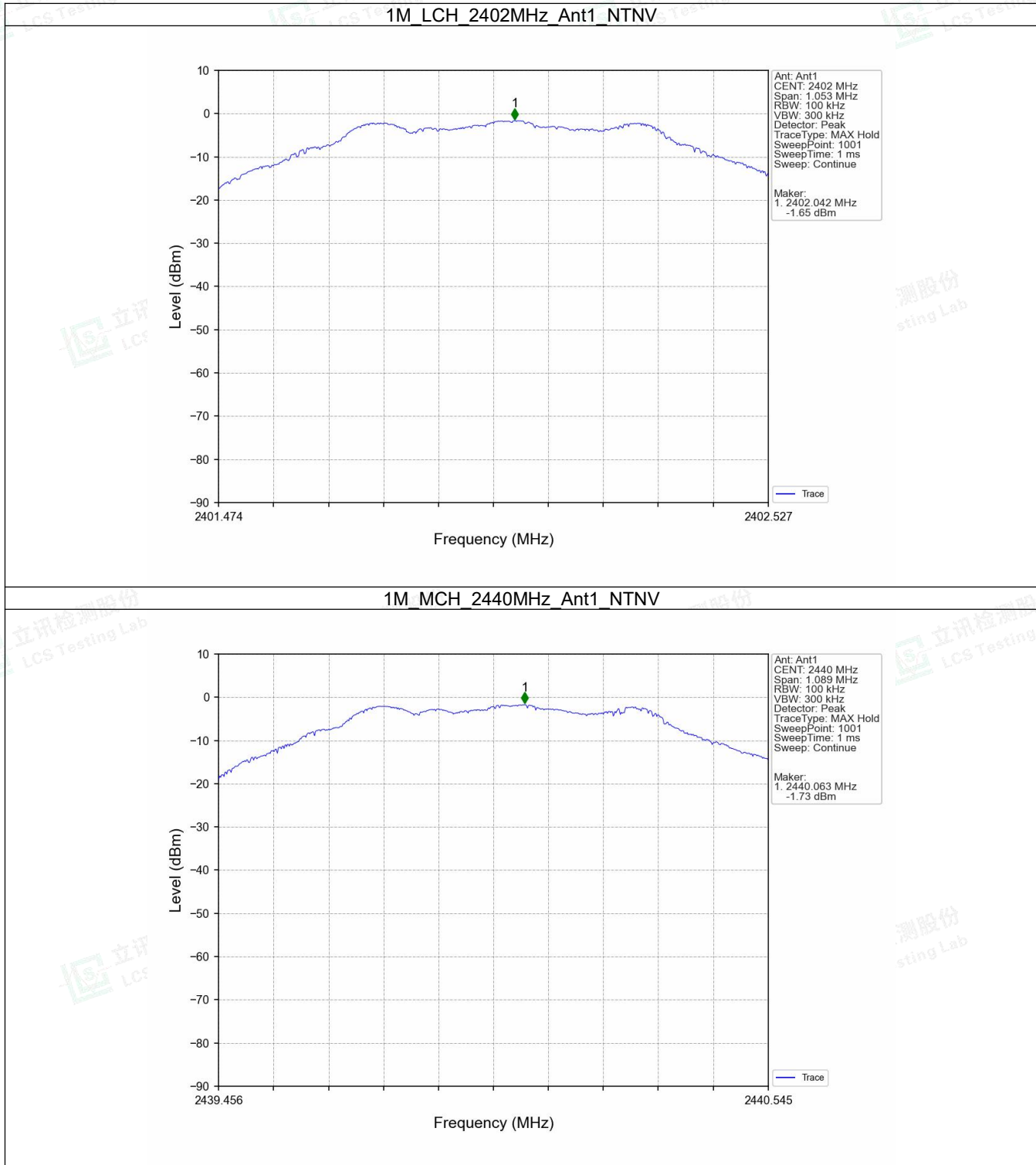


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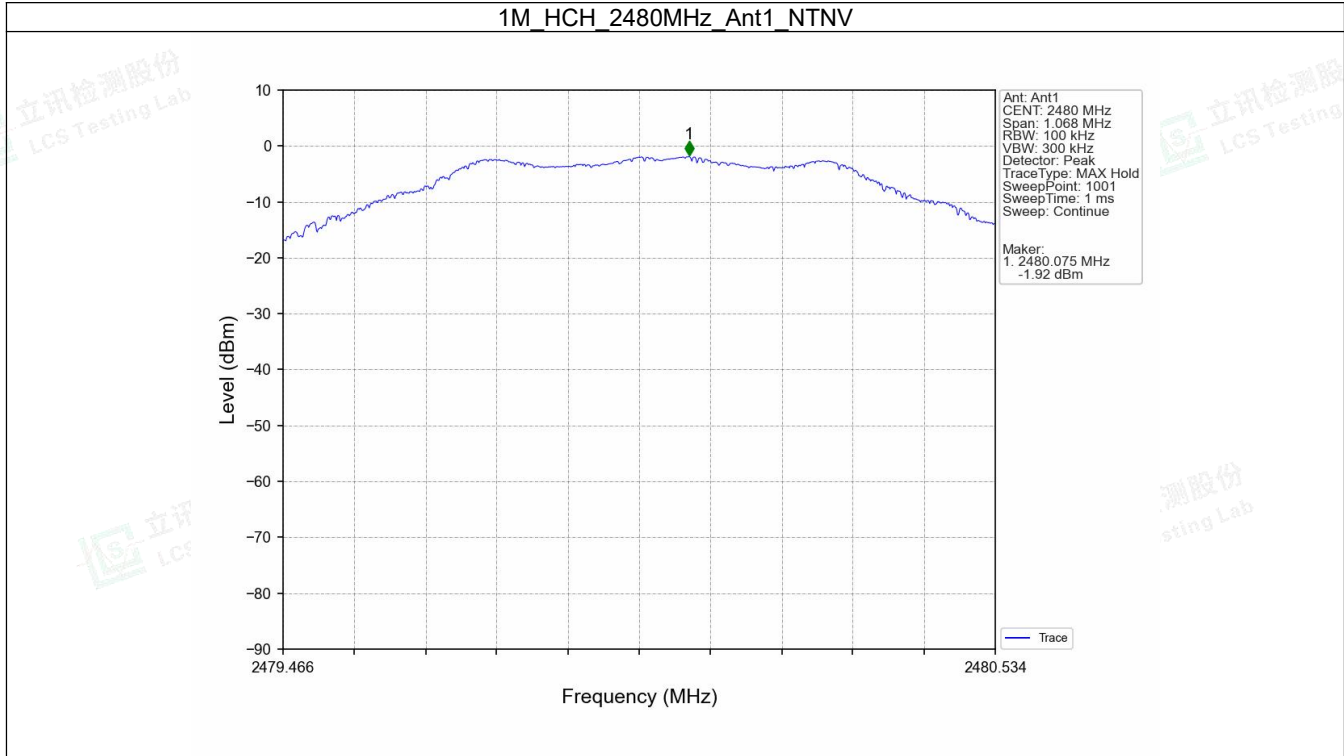


5.2 Test Graph

5.2.1 Ref

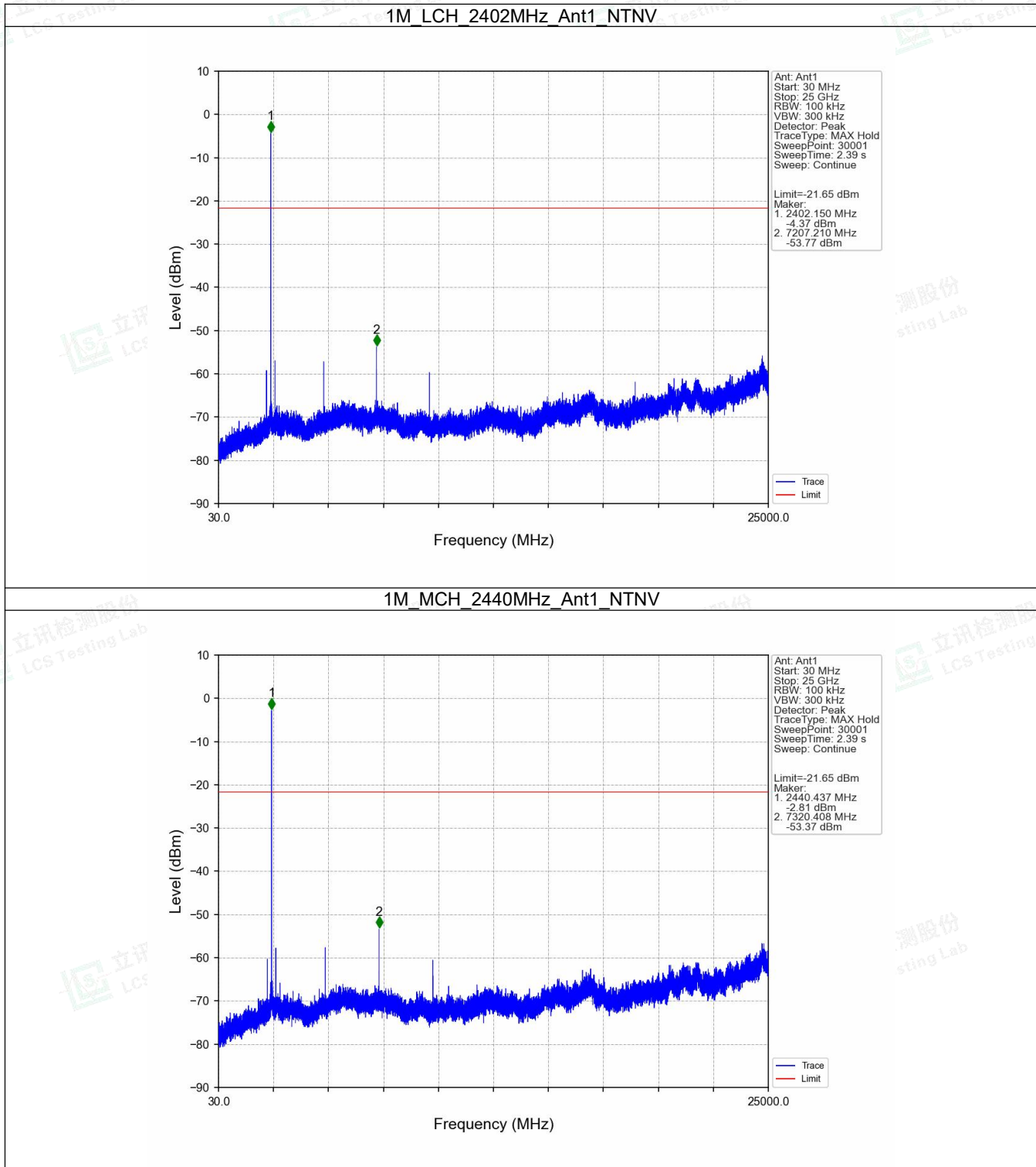


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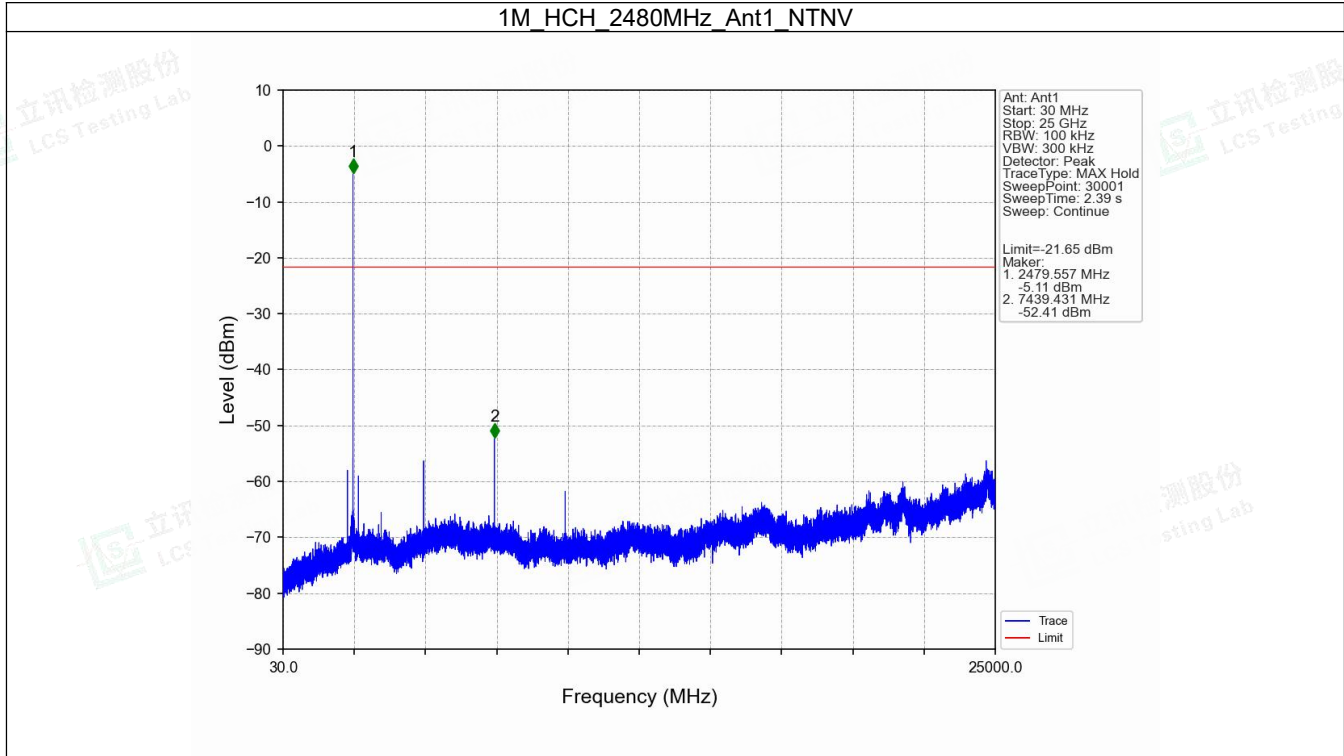




5.2.2 CSE



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B.6 Duty Cycle

6.1 Test Result

6.1.1 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	0.536	1.250	42.88	3.68	0.01
		2440	0.536	1.249	42.91	3.67	0.03
		2480	0.536	1.250	42.88	3.68	0.05

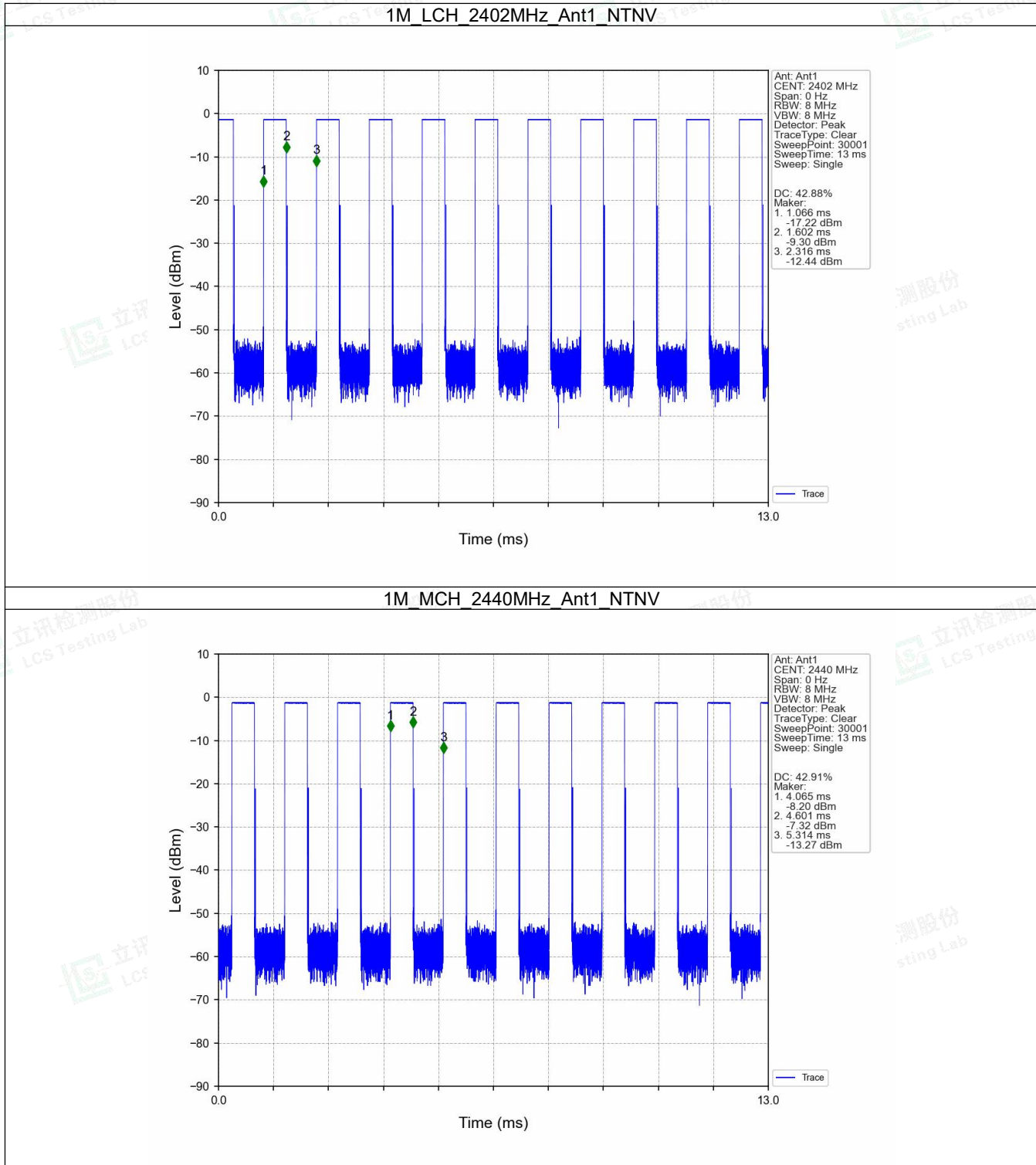


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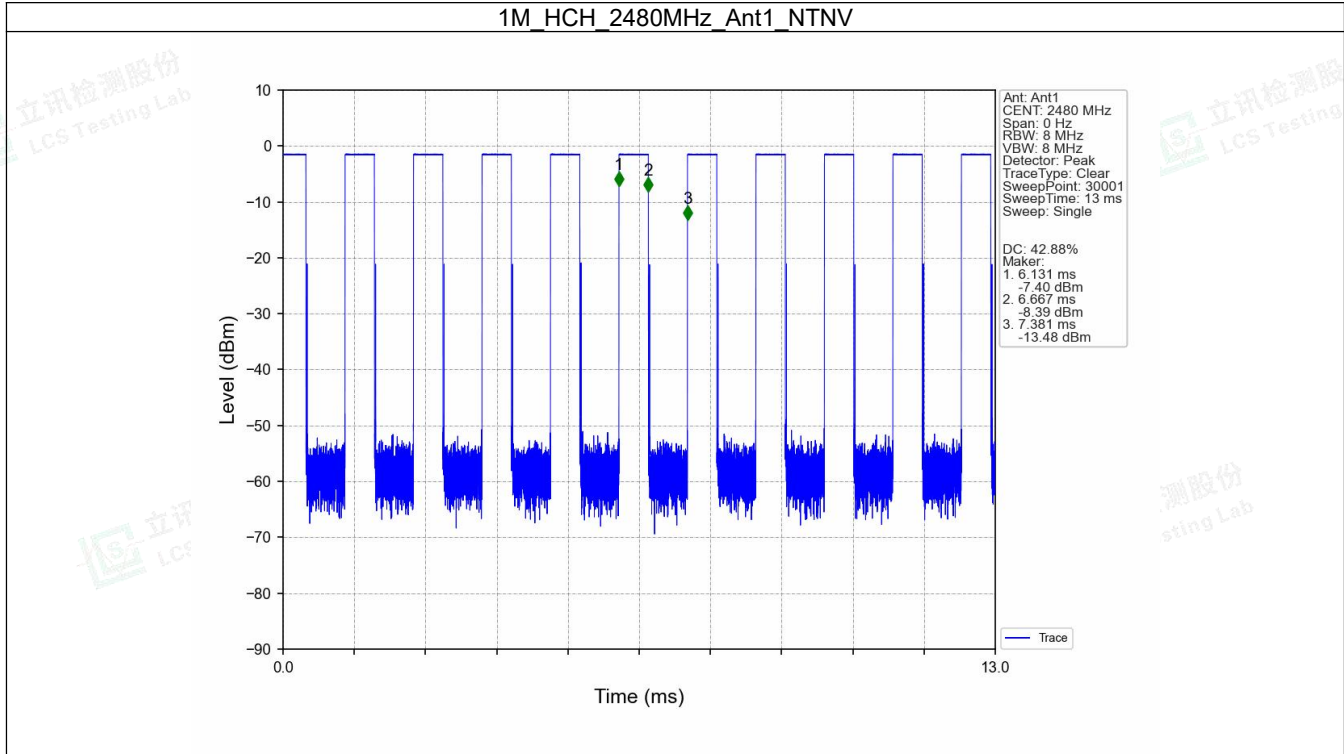


6.2 Test Graph

6.2.1 Ant1



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B.7 Restricted Band

7.1 Test Result

7.1.1 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



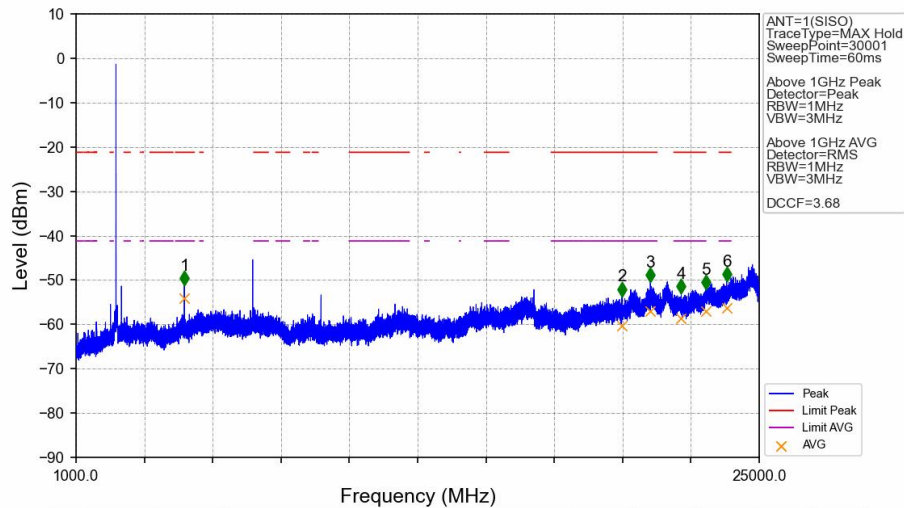
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7.2 Test Graph

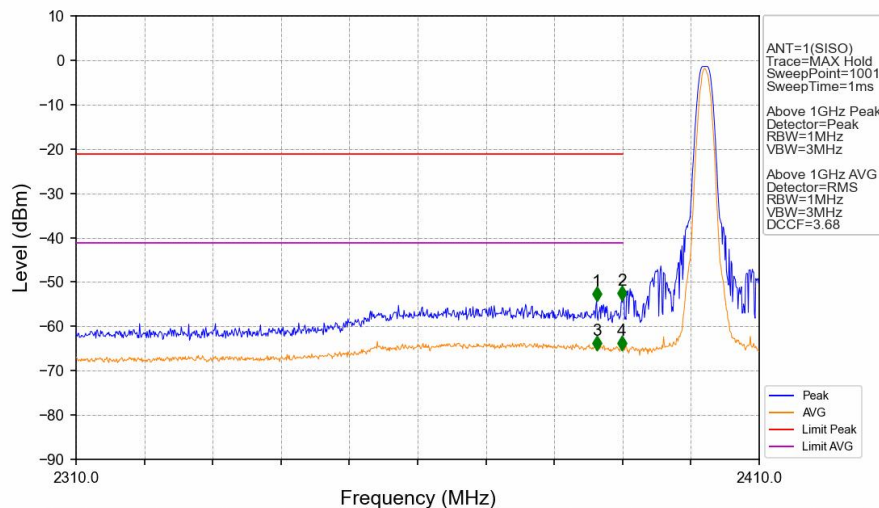
7.2.1 RSE

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	4804	-51.07	-21.20	29.87	Pass	Peak	7	4804	-54.21	-41.20	13.01	Pass	AVG
2	20180	-53.60	-21.20	32.40	Pass	Peak	8	20180	-60.29	-41.20	19.09	Pass	AVG
3	21176	-50.47	-21.20	29.27	Pass	Peak	9	21176	-57.02	-41.20	15.82	Pass	AVG
4	22262.4	-53.05	-21.20	31.85	Pass	Peak	10	22262.4	-58.75	-41.20	17.55	Pass	AVG
5	23113.6	-52.11	-21.20	30.91	Pass	Peak	11	23113.6	-57.05	-41.20	15.85	Pass	AVG
6	23857.6	-50.23	-21.20	29.03	Pass	Peak	12	23857.6	-56.23	-41.20	15.04	Pass	AVG

1M_LCH_2402MHz_Ant1_NTNV



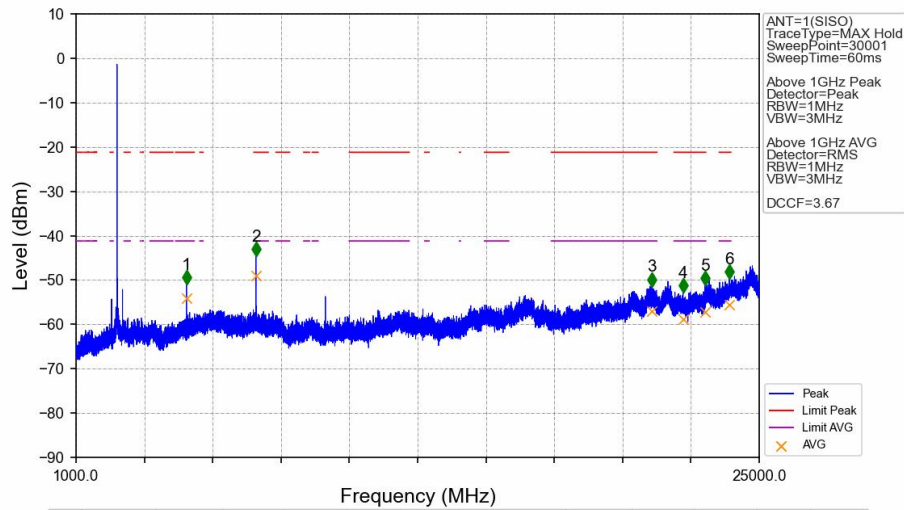
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2386.200	-54.30	-21.20	33.10	Pass	Peak	3	2386.200	-65.41	-41.20	24.21	Pass	AVG
2	2389.900	-54.08	-21.20	32.88	Pass	Peak	4	2389.900	-65.42	-41.20	24.22	Pass	AVG



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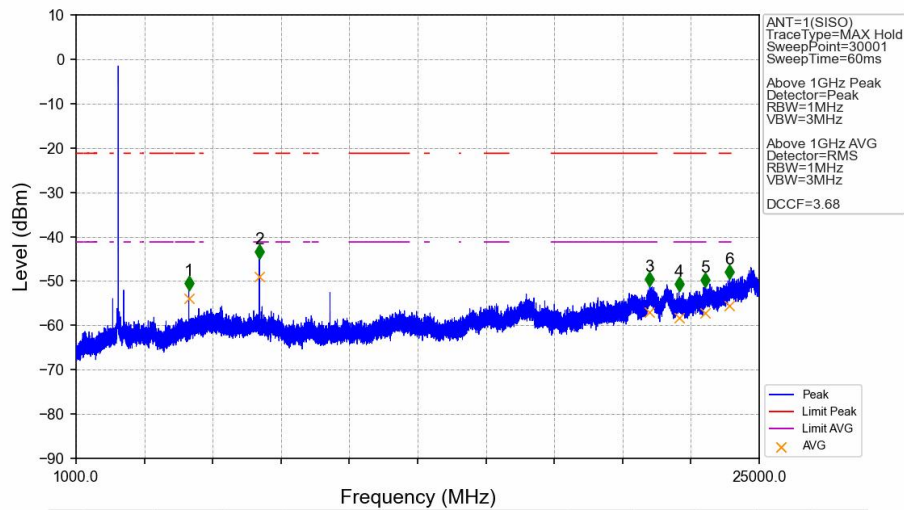


1M_MCH_2440MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4880	-50.88	-21.20	29.68	Pass	Peak	7	4880	-54.09	-41.20	12.89	Pass	AVG
2	7320	-44.61	-21.20	23.41	Pass	Peak	8	7320	-49.11	-41.20	7.91	Pass	AVG
3	21220	-51.42	-21.20	30.22	Pass	Peak	9	21220	-57.00	-41.20	15.80	Pass	AVG
4	22324.8	-52.71	-21.20	31.51	Pass	Peak	10	22324.8	-58.80	-41.20	17.60	Pass	AVG
5	23091.2	-51.20	-21.20	30.00	Pass	Peak	11	23091.2	-57.19	-41.20	15.99	Pass	AVG
6	23956	-49.73	-21.20	28.53	Pass	Peak	12	23956	-55.53	-41.20	14.34	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	-51.98	-21.20	30.78	Pass	Peak	7	4960.8	-53.93	-41.20	12.73	Pass	AVG
2	7440	-44.91	-21.20	23.71	Pass	Peak	8	7440	-48.98	-41.20	7.78	Pass	AVG
3	21151.2	-51.23	-21.20	30.03	Pass	Peak	9	21151.2	-57.08	-41.20	15.88	Pass	AVG
4	22181.6	-52.22	-21.20	31.02	Pass	Peak	10	22181.6	-58.36	-41.20	17.16	Pass	AVG
5	23100	-51.27	-21.20	30.07	Pass	Peak	11	23100	-57.21	-41.20	16.01	Pass	AVG
6	23957.6	-49.54	-21.20	28.34	Pass	Peak	12	23957.6	-55.54	-41.20	14.34	Pass	AVG



