

## RF EXPOSURE REPORT



**Applicant:** Laipac Technology Inc  
25 Valleywood Drive Unit11, Markham, Ontario, Canada, L3R  
5L9

**Product Name:** Lola HT 2

**Brand Name:** LAIPAC

**Model No.:** Lola HT 2-N

**Model Difference:** N/A

**Report Number:** ER/2021/40110

**FCC ID** TET-LOLAHT2

**IC:** 11280A-LOLAHT2

**Issue Date:** May. 21, 2021

Approved By \_\_\_\_\_

John Yeh

**We hereby certify that:**

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091 and RSS-102.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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## Revision History

Report Number	Revision	Description	Issue Date	Revised By
ER/2021/40110	Rev.00	Original.	May 21, 2021	Yi-Shan Tsai

**Note:**

- 1、Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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# 1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

## 1.1 Product Description

Product Name:	Lola HT 2
Brand Name:	LAIPAC
Model No.:	Lola HT 2-N
Model Difference:	N/A
Hardware Version:	V2.0
Firmware Version:	V1.14.02
EUT Series No.:	862632041426130 (Conducted) 866258042625407 (Radiated)
Power Supply:	Battery 3.7Vdc

## 1.2 Antenna Information:

### 1.2.1 WWAN

Type	Modulation	Frequency (MHz)		Peak Antenna Gain (dBi)
Dipole	WCDMA / HSPA Band II	1852.4	~ 1907.6	-2.07
	WCDMA / HSPA Band IV	1712.4	~ 1752.6	-2.35
	WCDMA / HSPA Band V	826.4	~ 846.6	-1.04
	LTE Band 2	1850	~ 1910	-2.07
	LTE Band 4	1710	1755	-2.35
	LTE Band 5	824	849	-1.04
	LTE Band 12	699	716	-5.28
	LTE Band 13	777	787	-4.91

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## 2 FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission’s guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100000	/	/	1.0	30

f = frequency in MHz

\* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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## 2.2 ISED Standard Applicable

This submittal(s) (test report) is intended to comply with RSS-102 issue 5 Radio frequency Radiation Exposure requirement.

This is a Mobile device, the MPE is required.

Limits for Maximum Permissible Exposure (MPE)

RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)				
Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field Strength (A/m rms)	Power Density (W/m <sup>2</sup> )	Reference Period (minutes)
0.003-10	83	90	-	Instantaneous*
0.1-10	-	0.73/ <i>f</i>	-	6**
1.1-10	87/ <i>f</i> <sup>0.5</sup>	-	-	6**
10-20	27.46	0.0728	2	6
20-48	58.07/ <i>f</i> <sup>0.25</sup>	0.1540/ <i>f</i> <sup>0.25</sup>	8.944/ <i>f</i> <sup>0.5</sup>	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 <i>f</i> <sup>0.3417</sup>	0.008335 <i>f</i> <sup>0.3417</sup>	0.02619 <i>f</i> <sup>0.6834</sup>	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/ <i>f</i> <sup>1.2</sup>
150000-300000	0.158 <i>f</i> <sup>0.5</sup>	4.21 x 10 <sup>-4</sup> <i>f</i> <sup>0.5</sup>	6.67 x 10 <sup>-5</sup> <i>f</i>	616000/ <i>f</i> <sup>1.2</sup>

F = frequency in MHz

\* = Based on nerve stimulation (NS).

\*\* = Based on specific absorption rate (SAR)

Maximum Permissible Exposure (MPE) Evaluation

Prediction of MPE limit at a given distance

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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### 2.3 Power Density Calculation (Worst Case)

#### FCC Standalone MPE

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. output Power (dBm)	Antenna Gain (dBi)	Max. output Power EIRP (mW)	Power Density (PD) (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Pass / Fail	Power Density / Limit
WCDMA / HSPA Band 2	1852.40	20	23.17	-1.03	163.68	0.033	1.000	Pass	0.033
WCDMA / HSPA Band 4	1712.40	20	23.18	-2.02	130.62	0.026	1.000	Pass	0.026
WCDMA / HSPA Band 5	826.40	20	23.42	-2.07	136.46	0.027	0.551	Pass	0.049
LTE-Band 2	1855.00	20	23.19	-2.35	121.34	0.024	1.000	Pass	0.024
LTE-Band 4	1745.00	20	21.37	-1.04	107.89	0.021	1.000	Pass	0.021
LTE-Band 5	836.50	20	22.88	-2.07	120.50	0.024	0.558	Pass	0.043
LTE-Band 12	699.70	20	22.95	-5.28	58.48	0.012	0.466	Pass	0.025
LTE-Band 13	782.00	20	22.71	-4.91	60.26	0.012	0.521	Pass	0.023

#### ISED Standalone MPE

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. output Power (dBm)	Antenna Gain (dBi)	Output Power EIRP (mW)	Power Density (PD) (W/m <sup>2</sup> )	Limit (W/m <sup>2</sup> )	Pass / Fail	Power Density / Limit
WWAN	826.40	20	23.42	-2.07	136.46	0.272	2.581	Pass	0.105
LTE-Band 2	1855.00	20	23.19	-2.35	121.34	0.242	4.485	Pass	0.054
LTE-Band 4	1745.00	20	21.37	-1.04	107.89	0.215	4.301	Pass	0.050
LTE-Band 5	836.50	20	22.88	-2.07	120.50	0.240	2.602	Pass	0.092
LTE-Band 12	699.70	20	22.95	-5.28	58.48	0.116	2.303	Pass	0.051
LTE-Band 13	782.00	20	22.71	-4.91	60.26	0.120	2.485	Pass	0.048

**Note:** For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

~ End of Report ~

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