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### RF EXPOSURE REPORT

Applicant: Laipac Technology Inc

25 Valleywood Drive Unit11, Markham, Ontario, Canada, L3R

Manufacturer: Laipac Technology Inc

25 Valleywood Drive Unit11, Markham, Ontario, Canada, L3R

5L9

**Product Name:** Look SPOT 2

**Brand Name:** Look SPOT

Model No.: Look SPOT 2

**Model Difference:** N/A

**Report Number:** E2/2021/80084

FCC ID **TET-LOOKSPOT2** 

IC: 11280A-LOOKSPOT2

**Issue Date:** Dec.10,2021

Date of EUT Received: Jun.15,2021

Approved By

### 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.

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Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
E2/2021/80084	Rev.00	Original.	Dec.10,2021	Viola Su	-		

#### Note:

- 1 . The remark "\*" indicates modification of the report upon requests from certification body.
- 2 · 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:	LooK SPOT 2
Brand Name:	LooK SPOT
Model No.:	LooK SPOT 2
Model Difference:	N/A
Hardware Version:	V2.0
Firmware Version:	V1.0
EUT Series No.:	PJ216050001
Power Supply:	12V DC

### 1.2 Antenna Information:

Antenna	Freq.	Peak Antenna
Type	(MHz)	Gain (dBi)
resonant cavity	2.4GHz	3.5

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# 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 Permissive Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm <sup>2</sup> )	(minute)
	Limits for Genera	al Population/Uncon	trolled 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	1	1	f/1500	30
1500-100000	/	/	1.0	30

f = frequency in MHz

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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<sup>\* =</sup> Plane-wave equipment power density



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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 Permissive 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/m²)	Reference Period (minutes)			
0.003-10	83	90	-	Instantaneous*			
0.1-10	-	0.73/ f	•	6**			
1.1-10	87/ f <sup>0.5</sup>	-	•	6**			
10-20	27.46	0.0728	2	6			
20-48	58.07/ f <sup>0.25</sup>	0.1540/ f <sup>0.25</sup>	8.944/ f <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>	$0.008335 f^{0.3417}$	$0.02619f^{0.6834}$	6			
6000-15000	61.4	0.163	10	6			
15000-150000	61.4	0.163	10	616000/ f <sup>1.2</sup>			
150000-300000	0.158 <i>f</i> <sup>0.5</sup>	4.21 x 10-4 f <sup>0.5</sup>	6.67 x 10-5 <i>f</i>	616000/ f <sup>1.2</sup>			

F = frequency in MHz

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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<sup>\* =</sup> Based on nerve stimulation (NS).

<sup>\*\* =</sup> Based on specific absorption rate (SAR)



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#### 2.3 **Power Density Calculation**

Freque (MHz	•	Test Distance (m)	Separation Distance (m)	Distance Factor (dB)	E-FIELD (dBuV/m)	EIRP (dBm)	EIRP (mW)
13.50	4.71	30	0.005	151.13	155.84	5.11940	3.2504

### Note

The Field strength of E-FIELD is derived from the physical test in the report number E2/2021/80083.

**Distance Factor =** 40log(Test Distance (m) / Required Distance (m))

E-FIELD (dBuV/m) = E-FIELD (dBuV/m) + Distance Factor(dB)

EIRP (dBm)= (E-FIELD(dBuV/m)+ 20log(d(m))-104.7

 $EIRP(mW) = (10^{(EIRP(dBm)/10)})$ 

#### **FCC Standalone MPE**

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max.Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm²)	Limit (mW/cm²)	Power Density / Limit
NFC	13.56	20	5.119	0.00	3.250	0.0006	0.979	0.0006
WLAN 2.4G	2437.00	20	13.27	3.50	47.53	0.009	1.000	0.009

#### ISED Standalone MPE

TOED Standarding in	··· —							
Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max.Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (W/m²)	Limit (W/m²)	Power Density / Limit
NFC	13.56	20	5.119	0.00	3.250	0.006	2	0.038
WLAN 2.4G	2437.00	20	13.27	3.50	47.53	0.095	5.404	0.018

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

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#### 2.4 **Collocated Power Density Calculation**

### **FCC Collocated MPE**

1 CO CONOCALCA IIII E							
Operation Mode	Power Density / Limit	(Power Density / Limit)	Threshold				
NFC	0.0006	0.00960	1				
WLAN 2.4G	0.009	0.00900	I				

### ISED Collocated MPE

IOLD CONCOURCE IIII L								
Operation Mode	Power Density / Limit	(Power Density / Limit)	Threshold					
NFC	0.038	0.056	1					
WLAN2.4G	0.018	0.056	l					

#### Note:

- 1. Σ(Power Density / Limit): This is a summation of [(Power Density for each transmitter/antenna included in the simultaneous transmission) / (corresponding MPE limit)].
- 2. Considering the collocated transmitters, the aggregated (Power Density /limit) is smaller than 1, and MPE of collocated transmitters is compliant

~ End of Report ~

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