

Report No.: SEWM2307000277RG02

Rev.: 01

Page: 1 of 7

# TEST REPORT

**Application No.:** SEWM2307000277RG  
**Applicant:** Telly, Inc.  
**Address of Applicant:** 2901 Florida Avenue Suite 840, Miami, Florida 33133, United States  
**Manufacturer:** Telly, Inc.  
**Address of Manufacturer:** 2901 Florida Avenue Suite 840, Miami, Florida 33133, United States  
**EUT Description:** mmWave Radar  
**Model No.:** A5L2  
**Trade Mark:** TELLY  
**FCC ID:** 2BBQXA5L2  
**Standards:** 47 CFR Part 2.1091  
FCC KDB 447498 D01 v06  
**Date of Receipt:** 2023/06/05  
**Date of Issue:** 2023/07/26

<b>Test Result:</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Well Wei

Well Wei  
Wireless Laboratory Manager



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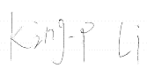
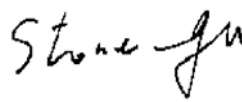
Report No.: SEWM2307000277RG02

Rev.: 01

Page: 2 of 7

## 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/07/26		Original

Prepared By	 _____ (King-p Li) / Test Engineer
Checked By	 _____ (Stone Gu) / Reviewer



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Report No.: SEWM2307000277RG02  
Rev.: 01  
Page: 3 of 7

## Contents

1	Version .....	2
2	General Information .....	4
2.1	Client Information .....	4
2.2	Test Facility .....	4
2.3	General Description of EUT .....	5
3	RF Exposure Evaluation .....	6
3.1	RF Exposure Compliance Requirement .....	6
3.1.1	Limits .....	6
3.1.2	Test Procedure .....	7
3.1.3	EUT RF Exposure Evaluation .....	7



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Report No.: SEWM2307000277RG02  
 Rev.: 01  
 Page: 4 of 7

## 2 General Information

### 2.1 Client Information

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Address of Applicant:	2901 Florida Avenue Suite 840, Miami, Florida 33133, United States
Manufacturer:	Telly, Inc.
Address of Manufacturer:	2901 Florida Avenue Suite 840, Miami, Florida 33133, United States

### 2.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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Report No.: SEWM2307000277RG02

Rev.: 01

Page: 5 of 7

## 2.3 General Description of EUT

EUT Description:	mmWave Radar
Model No.:	A5L2
Trade Mark:	TELLY
Power supply:	DC 5V
Frequency Range:	60GHz-64GHz
Modulation Type:	FMCW
Antenna Type:	Antenna 1: Integrated Patch Antenna Antenna 2: Integrated Patch Antenna Antenna 3: Integrated Patch Antenna Not support MIMO Mode
Antenna Gain:	Antenna 1: 4.8dBi Antenna 2: 4.8dBi Antenna 3: 4.8dBi Not support MIMO Mode
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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### 3 RF Exposure Evaluation

#### 3.1 RF Exposure Compliance Requirement

##### 3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
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
1500-100,000	/	/	1.0	30

F=frequency in MHz  
 \*=Plane-wave equivalent power density  
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$R$  = distance between observation point and center of the radiator in cm

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance  $r$  where the MPE limit is reached.





Report No.: SEWM2307000277RG02

Rev.: 01

Page: 7 of 7

### 3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

### 3.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Test mode	Frequency (GHz)	Antenna	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	conclusion
mmWave	62.485	1	4.80	-6.25	0.237	0.0000472	1.0000	Pass
mmWave	62.485	2	4.80	-6.97	0.201	0.0000400	1.0000	Pass
mmWave	62.485	3	4.80	-6.43	0.228	0.0000454	1.0000	Pass

---End of Report---



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