

## SGS-CSTC Standards Technical Services Co., Ltd.

**Shenzhen Branch** 



Report No.: SZEM190701674703

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## **Human Exposure Report**

**Application No.:** SZEM1907016747CR Applicant: Pelican Products, Inc.

Address of Applicant: 23215 Early Avenue, Torrance, California, 90505 United States

Manufacturer: Pelican Products, Inc.

**Address of Manufacturer:** 23215 Early Avenue, Torrance, California, 90505 United States

Factory: SHENZHEN TOPBAND CO., LTD.

Address of Factory: Topband Building, Liyuan Industrial Park, Shiyan Town, Bao'an District,

Shenzhen, China.

**Equipment Under Test (EUT):** 

**EUT Name:** G40 Charge Case Model No.: GOG400-0050-DGRY

Trade mark: Pelican

FCC ID: 2AOIUGOG400

Standards: 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1093

Date of Receipt: 2019-07-25

Date of Test: 2019-07-31 to 2019-08-15

Date of Issue: 2019-08-19

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Keny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above



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## 2 General Information

## 2.1 Details of E.U.T.

Power supply: Lithium Ion Battery: DC 3.7V

Capacity: 10000mAh/37Wh

Input: Micro USB Port DC 5V/2A

Output:

USB Port: DC5V/2A

WPC: 5W(DC 5V/1A)

Cable: USB cable: 37cm shielded

Operation Frequency: 114.26kHz to 185.26kHz

Modulation Type: Load Modulation
Antenna Type: Loop Antenna

## 2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	LeTV	EQ-248CN	16041847014
iPhone 8	Apple	A1863	F4GVQ656JC6D



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### 2.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

## 2.4 Test Facility

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

### • CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

### VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

## Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 2.5 Deviation from Standards

None.

### 2.6 Abnormalities from Standard Conditions

None.



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## 3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-02-05



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## 4 Test Results

## 4.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 0/2/4/6/8/10/15cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)			
(A) Limits for Occupational/Controlled Exposures							
0.3-3.0	614	1.63	*(100)	6			
3.0-30	1842/f	4.89/f	*(900/f²)	6			
30-300	61.4	0.163	1.0	6			
300-1500	/	/	f/300	6			
1500-100,000	/	/	5	6			
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure				
0.3-1.34	614	1.63	*(100)	30			
1.34-30	824/f	2.19/f	*(180/f²)	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

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).

## 4.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

**EUT Operation:** 

This device has been tested with load at zero charge, intermediate charge, and full charge.



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



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#### 4.1.2 **Measurement Data**

## Output Voltage=DC 5V; The max output power =5W; Calculation of resistor value=5Ω **Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
	(0)	011		` '
		Side 1	0.3604	0.815
	0	Side 2	0.3119	0.815
122.3 kHz		Side 3	0.4015	0.815
		Side 4	0.2703	0.815
		Тор	0.2219	0.815

## **Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
		Side 1	0.3234	0.815
	2	Side 2	0.2747	0.815
122.3 kHz		Side 3	0.3663	0.815
		Side 4	0.2351	0.815
		Тор	0.1847	0.815

## **Magnetic Field Emissions**

Operation	Test Distance	Test Position	Probe Measure	50% Limit
frequency	(cm)		Result (A/m)	(A/m)
		Side 1	0.2901	0.815
	4	Side 2	0.2446	0.815
122.3 kHz		Side 3	0.3268	0.815
		Side 4	0.1939	0.815
		Тор	0.1518	0.815



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## **Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
		Side 1	0.2541	0.815
	6	Side 2	0.2052	0.815
122.3 kHz		Side 3	0.2927	0.815
		Side 4	0.1675	0.815
		Тор	0.1189	0.815

## Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
		Side 1	0.2216	0.815
		Side 2	0.1693	0.815
122.3 kHz	8	Side 3	0.2570	0.815
		Side 4	0.1299	0.815
		Тор	0.0804	0.815

### **Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
	10	Side 1	0.1834	0.815
		Side 2	0.1403	0.815
122.3 kHz		Side 3	0.2298	0.815
		Side 4	0.0963	0.815
		Тор	0.0439	0.815



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## **Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
		Side 1	0.1062	0.815
	15	Side 2	0.0817	0.815
122.3 kHz		Side 3	0.1348	0.815
		Side 4	0.0539	0.815
		Тор	0.0265	0.815

## Mobile phone has been charge at zero charge, intermediate charge, and full charge.

## **Magnetic Field Emissions**

Operation	Test	Test	Probe Measure Result(A/m)			50%Limit
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
	0	Side 1	0.3721	0.3602	0.3451	0.815
		Side 2	0.3217	0.3094	0.2956	0.815
122.3 kHz		Side 3	0.4142	0.4026	0.3886	0.815
		Side 4	0.2805	0.2665	0.2531	0.815
		Тор	0.2325	0.2189	0.2057	0.815



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## **Magnetic Field Emissions**

Operation	Test	Test Position	Probe	50%Limit		
frequency	Distance (cm)		zero charge	intermediate charge	full charge	(A/m)
	2	Side 1	0.3337	0.3228	0.3093	0.815
		Side 2	0.2852	0.2693	0.2568	0.815
122.3 kHz		Side 3	0.3755	0.3638	0.3496	0.815
		Side 4	0.2452	0.2338	0.2186	0.815
		Тор	0.1975	0.1855	0.1713	0.815

## **Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe	50%Limit		
			zero charge	intermediate charge	full charge	(A/m)
	(CIII)	Side 1	0.2025	0.2070	0.2744	0.015
	4	Side 2	0.3025	0.2878	0.2744	0.815
122.3 kHz		Side 3	0.2543	0.2411	0.2259	0.815
TELO III IE		Side 4	0.3357	0.3239	0.3088	0.815
		Тор	0.2002	0.1920	0.1769	0.815

## **Magnetic Field Emissions**

Operation	Test	Test	Probe	50%Limit		
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
122.3 kHz	6	Side 1	0.2670	0.2539	0.2400	0.815
		Side 2	0.2173	0.2018	0.1891	0.815
		Side 3	0.3033	0.2888	0.2736	0.815
		Side 4	0.1764	0.1631	0.1506	0.815
		Тор	0.1305	0.1168	0.1030	0.815



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## **Magnetic Field Emissions**

Operation	Test	Test	Probe	50%Limit		
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
122.3 kHz		Side 1	0.2315	0.2178	0.2053	0.815
		Side 2	0.1818	0.1706	0.1563	0.815
	8	Side 3	0.2693	0.2561	0.2425	0.815
		Side 4	0.1411	0.1285	0.1136	0.815
		Тор	0.0906	0.0762	0.0638	0.815

## **Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe	50%Limit		
			zero charge	intermediate charge	full charge	(A/m)
	(CIII)	Side 1	0.1064	0.1000	0.1672	0.815
122.3 kHz	10	Side 2	0.1964	0.1809	0.1672	0.815
		Side 2	0.1534	0.1402	0.1269	0.815
			0.2392	0.2260	0.2108	0.815
		Side 4	0.1065	0.0904	0.0764	0.815
		Тор	0.0556	0.0420	0.0287	0.013

## **Magnetic Field Emissions**

Operation	Test	Test Position	Probe	50%Limit		
frequency	Distance (cm)		zero charge	intermediate charge	full charge	(A/m)
	z 15	Side 1	0.1171	0.1020	0.0893	0.815
		Side 2	0.0924	0.0793	0.0645	0.815
122.3 kHz		Side 3	0.1464	0.1312	0.1174	0.815
		Side 4	0.0665	0.0536	0.0410	0.815
		Тор	0.0372	0.0278	0.0253	0.815



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## 5 Photographs- RF exposure Setup photos

Refer to setup photos.

- End of the Report -



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