



# Human Exposure Report

**Application No.:** SZEM2010010486CR (KSEM2009001186CR)  
**FCC ID:** 2AWXQ-CA-1500  
**Applicant:** Luxshare Precision Industry (Chuzhou) Co., Ltd.  
**Address of Applicant:** No.8 Yongyang road, National Economic and Technologic Development Zone, Chuzhou City, Anhui China  
**Manufacturer:** Luxshare Precision Industry (Chuzhou) Co., Ltd.  
**Address of Manufacturer:** No.8 Yongyang road, National Economic and Technologic Development Zone, Chuzhou City, Anhui China  
**Factory:** LUXSHARE – ICT(Viet Nam)LTD  
**Address of Factory:** Lot E, Quang Chau Industrial Park, Quang Chau Village, Viet Yen District, Bac Giang Province, Viet Nam  
**Equipment Under Test (EUT):**  
**EUT Name:** CA Essential Micro Docking Station  
**Model No.:** DS1500  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
**Date of Receipt:** 2020-09-11  
**Date of Test:** 2020-10-09 to 2020-10-16  
**Date of Issue:** 2020-10-20

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

Keny Xu  
EMC Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2020-10-20	/

Authorized for issue by:			
		 <hr/> <b>Foray Chen /Project Engineer</b>	
		 <hr/> <b>Eric Fu /Reviewer</b>	



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### 3 General Information

#### 3.1 Details of E.U.T.

Power supply:	DC 5V 3A /DC 20V 4.5A Wireless charging:5W
Serial Number	N/A
Firmware Version:	N/A
Test voltage:	AC 120V/60Hz
Antenna Type:	Inductive Loop Coil Antenna
Modulation Type:	FSK
Operation Frequency:	120kHz to 130kHz
Wireless Output:	5W

#### 3.2 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Serial No.
MACBOOK PRO	APPLE	A1989	C02Y4AV9JHCD
Load	N/A	N/A	N/A
Adapter	MI	ADC6502	MA1000002683898Y04TJ
Mobile Phone	Apple	Iphone 12	N/A

Parameter of MACBOOK PRO:

MACBOOK PRO	Rated Input	AC100V-240V 50/60Hz 1500mA
	Rated Output	DC5V by Type-c USB port

Parameter of Adapter:

Adapter	Rated Input	AC100V-240V 50/60Hz 1800mA
	Rated Output	20V,4.5A





### 3.3 Test Location

All tests were performed at:

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

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.

### 3.4 Test Facility

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

- **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.

### 3.5 Deviation from Standards

None.

### 3.6 Abnormalities from Standard Conditions

None.



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## 4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date (yyyy-mm-dd)
1	Shielding Room	SAEMC	MSR733	SEM001-09	2021-05-09
2	EMF Tester	Narda	ELT-400	SZE039-4	2021-07-06
3	EMF Tester	SCHAFFNER	EMC-20	CZ301206	2021-04-29



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## 5 Test Results

### 5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310  
 Measurement Distance: 15 cm for surrounding the device and 20 cm for above the top surface.  
 Test voltage INPUT:DC 5V by Type-c USB port, DC 20V by adapter  
 Wireless Output:5V/5W

Limit:

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).



**5.2 Test Procedure**

This device has been tested the worst status of full load and horizontal placement, vertical placement had been tested and only the worst vertical placement had been recorded in the report.

The device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

**5.3 Measurement Data**

**1: Output Voltage=DC 5V; Max output power =5W;Calculation of resistor value=5Ω (DC 5V/1A)**

**Electric Field Emissions**

Test Position	Operating Frequency	Test Distance (cm)	Probe Measure Result (V/m)	Limit (V/m)	50% Limit (V/m)
Side 1	129.2KHz	15	7.23	614	307
Side 2	129.2KHz	15	7.19	614	307
Side 3	129.2KHz	15	7.05	614	307
Side 4	129.2KHz	15	7.29	614	307
Top	129.2KHz	20	7.38	614	307
Bottom	129.2KHz	15	7.21	614	307

**Magnetic Field Emissions**

Test Position	Operating Frequency	Test Distance (cm)	Probe Measure Result (A/m)	Limit (A/m)	50% Limit (A/m)
Side 1	129.2KHz	15	0.101	1.63	0.815
Side 2	129.2KHz	15	0.105	1.63	0.815
Side 3	129.2KHz	15	0.111	1.63	0.815
Side 4	129.2KHz	15	0.107	1.63	0.815
Top	129.2KHz	20	0.121	1.63	0.815
Bottom	129.2KHz	15	0.107	1.63	0.815



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**2: Mobile Phone has been charge at zero charge, intermediate charge and full charge. The Maximum value has been recorded in the below table.(DC 5V 5W)**

**Electric Field Emissions**

Test Position	Operating Frequency	Test Distance (cm)	Probe Measure Result(V/m)			Limit(V/m) / 50%Limit (V/m)
			zero charge	intermediate charge	full charge	
Side 1	129.2KHz	15	6.55	7.12	7.54	614/307
Side 2	129.2KHz	15	7.12	7.23	7.41	614/307
Side 3	129.2KHz	15	7.01	7.06	7.25	614/307
Side 4	129.2KHz	15	6.78	7.43	7.69	614/307
Top	129.2KHz	20	6.12	7.05	7.33	614/307
Bottom	129.2KHz	15	6.23	7.77	7.98	614/307

**Magnetic Field Emissions**

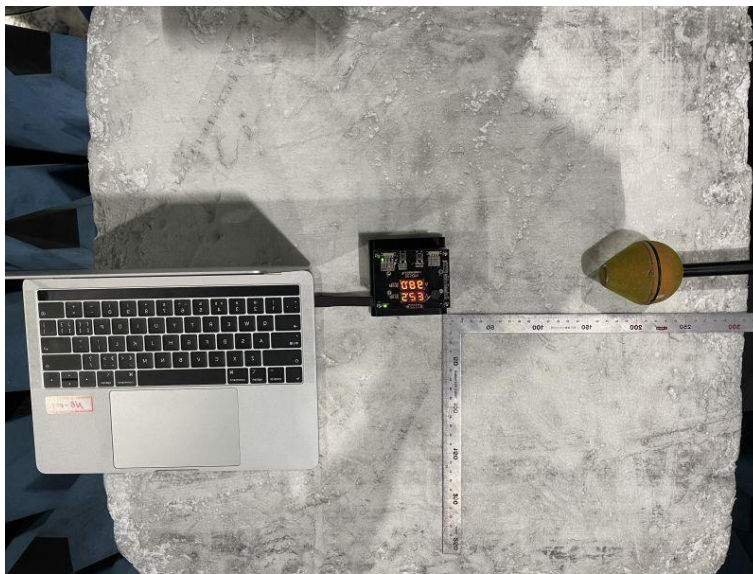
Test Position	Operating Frequency	Test Distance (cm)	Probe Measure Result(A/m)			Limit(A/m) / 50%Limit (A/m)
			zero charge	intermediate charge	full charge	
Side 1	129.2KHz	15	0.1262	0.1374	0.2058	1.63/0.815
Side 2	129.2KHz	15	0.1232	0.1298	0.1376	1.63/0.815
Side 3	129.2KHz	15	0.0882	0.1007	0.1003	1.63/0.815
Side 4	129.2KHz	15	0.1039	0.1466	0.1032	1.63/0.815
Top	129.2KHz	20	0.1043	0.2013	0.2076	1.63/0.815
Bottom	129.2KHz	15	0.1054	0.2105	0.2171	1.63/0.815



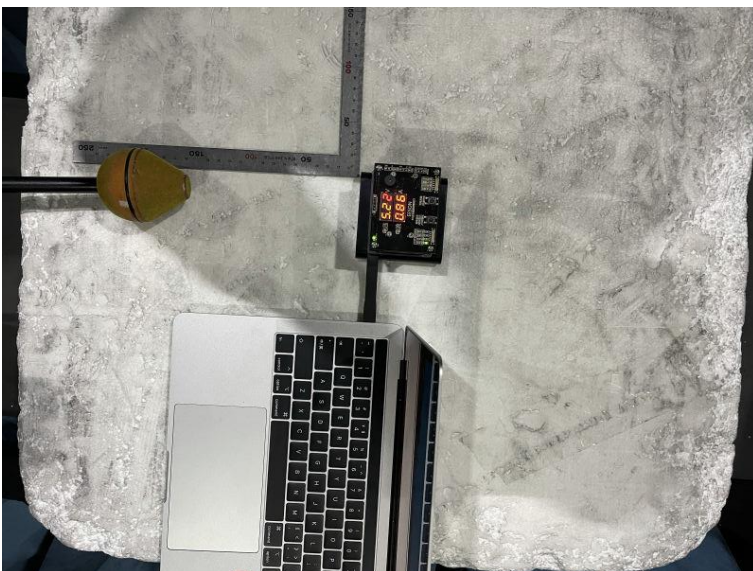
## 6 Photographs

### 6.1 Test photos

Side 1



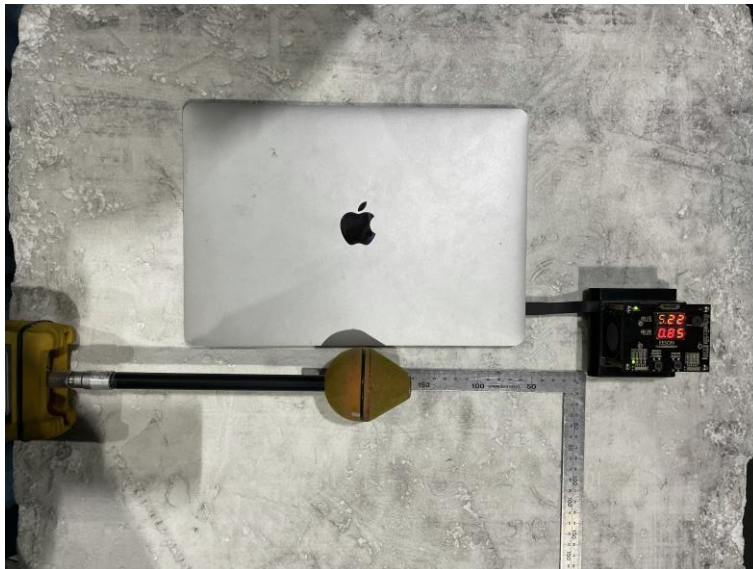
Side 2



Side 3

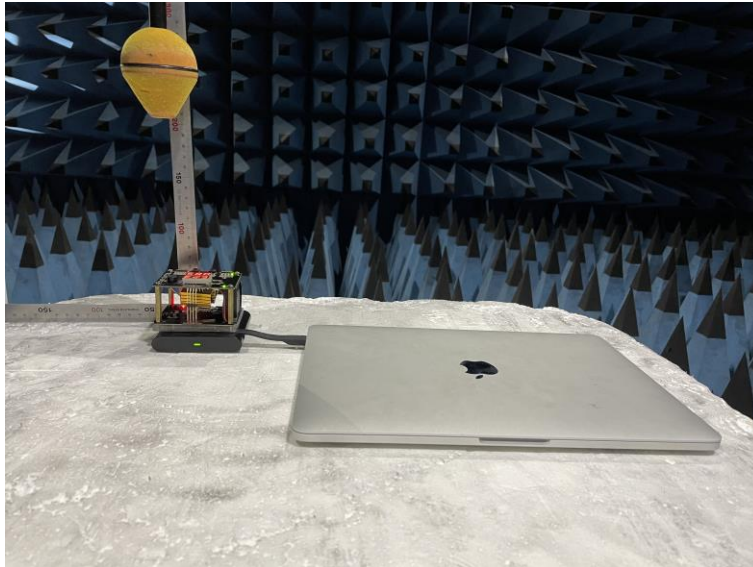


Side 4





Top



Bottom



**- End of the Report -**



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