

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200401102

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# **Human Exposure Report**

**Application No.:** SZCR2312004011AT **Applicant:** Annex Products Pty Ltd

Address of Applicant: Level 3 Suite 6A, 299 Toorak Road, South Yarra, VIC, Australia 3141

Manufacturer: Annex Products Pty Ltd

Address of Manufacturer: Level 3 Suite 6A, 299 Toorak Road, South Yarra, VIC, Australia 3141

Factory: Shenzhen Huagon Technology Co., Ltd

Address of Factory: 401-403, Building B, Weihuada Industrial Park, No. 5, Lirong Road, Xinshi

community, Dalang street, Longhua District, Shenzhen

**Equipment Under Test (EUT):** 

**EUT Name:** OEM WCM 2.0 - 12V-18V **Model No.:** QL-6585, QL-6416

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: QUAD LOCK FCC ID: 2AOU9-QLO2

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

47 CFR PART 2, Subpart J, Section 2.1091

**Date of Receipt:** 2023-12-08

**Date of Test:** 2024-01-23 to 2024-01-30

**Date of Issue:** 2024-02-02

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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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2024-02-02		Original				

Authorized for issue by:		
	(eo_li	
	Leo Li/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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### 3 **General Information**

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

Power supply:	For model QL-6416: Input: DC 12-18V, 1.0A Max Output: 5W/7.5W
	For model QL-6585: Input: DC 12-18V, 1.8A Max Output: 5W/7.5W/10W/15W
Operation frequency:	116.00kHz to 159.36kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

## **Declaration of EUT Family Grouping:**

Model No.: QL-6585, QL-6416

All models QL-6585 and WL-6416 were tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference as below.

1. Input Current QL-6585: 1.8A QL-6416: 1.0A

2. Output Power QL-6585: 5W / 7.5W / 10W / 15W QL-6416: 5W / 7.5W

3. Firmware QL-6585; A.1.1 QL-6416; B.1.1



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## 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
DC power supply	ZHAOXIN	PS-3005D	REF. No.SEA27B01	
E-loading	N/A	N/A	REF. No.SEA42A00	
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00	
iPhone 8	Apple	A1863	REF. No.SEA16J00	
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00	
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00	



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### Test Location 3.3

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, 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 (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

## 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.



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3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

# **Equipments Used during Test**

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2026-03-31
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2024-03-31



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### **Test Results** 5

## RF Exposure test

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

47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 20cm

Limit:

Frequency range (MHz)	, , , , , , , , , , , , , , , , , , , ,		Power density (mW/cm²)	Averaging time (minutes)						
	(A) Limits for Occ	cupational/Controlled Ex	posures							
0.3-3.0	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	d 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

### 5.1.1 E.U.T. Operation

### Operating Environment:

Temperature: 22.3 °C 52.9 % RH Atmospheric Pressure: 1020 mbar Humidity: This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.



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<sup>=</sup>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).



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### 5.1.2 **Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charging mode_Keep the EUT charging (5W)(QL6585:DC12V)
Pre-scan	01	Charging mode_Keep the EUT charging (7.5W)(QL6585:DC12V)
Pre-scan	02	Charging mode_Keep the EUT charging (10W)(QL6585:DC12V)
Pre-scan	03	Charging mode_Keep the EUT charging (15W)(QL6585:DC12V)
Pre-scan	04	Charging mode_Keep the EUT charging (5W)(QL6585:DC18V)
Pre-scan	05	Charging mode_Keep the EUT charging (7.5W)(QL6585:DC18V)
Pre-scan	06	Charging mode_Keep the EUT charging (10W)(QL6585:DC18V)
Final test	07	Charging mode_Keep the EUT charging (15W)(QL6585:DC18V)
Pre-scan	08	Charging mode_Keep the EUT charging (5W)(QL6416:DC12V)
Pre-scan	09	Charging mode_Keep the EUT charging (7.5W)(QL6416:DC12V)
Pre-scan	10	Charging mode_Keep the EUT charging (5W)(QL6416:DC18V)
Pre-scan	11	Charging mode_Keep the EUT charging (7.5W)(QL6416:DC18V)



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#### 5.1.3 **Measurement Data**

**Magnetic Field Emissions** 

Operation frequency	Test Distance (cm)	Test Position	Probe	50 % Limit (A/m)	10 % Limit (A/m)		
			unload	Half load	full load		
129.2 kHz		Side 1	0.042	0.136	0.152		
which is the worst		Side 2	0.034	0.085	0.102		
case		Side 3	0.037	0.134	0.151	0.815	0.163
within the	20	Side 4	0.033	0.173	0.198	0.013	0.100
operation frequency range		Тор	0.036	0.212	0.241		

Operation frequency (cm)		Toot	Probe M	easure Result(	50 % Limit	10 % Limit	
	Test Position	zero charge	intermediate charge	full charge	( <b>A</b> /m)	(A/m)	
147.8 kHz		Side 1	0.188	0.158	0.082	0.815	0.163
which is the worst		Side 2	0.119	0.100	0.052		
case	20	Side 3	0.187	0.157	0.080		
within the operation frequency range	20	Side 4	0.251	0.211	0.107		
		Тор	0.304	0.256	0.131		



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### **Electric Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			unload	Half load	full load		
129.2 kHz		Side 1	0.041	0.163	0.217		
which is the worst		Side 2	0.036	0.154	0.202		
case		Side 3	0.034	0.173	0.229	307	61.4
within the operation	20	Side 4	0.030	0.206	0.271	307	01.4
frequency range		Тор	0.031	0.265	0.351		

Operation	Test Distance	Toot	Probe M	50 % Limit	10 % Limit		
Operation frequency		Test Position	zero charge	intermediate charge	full charge	(V/m)	(V/m)
147.8 kHz		Side 1	0.191	0.157	0.092	307	61.4
which is the worst		Side 2	0.177	0.147	0.082		
case	20	Side 3	0.201	0.166	0.098		
within the operation frequency range	20	Side 4	0.239	0.199	0.116		
		Тор	0.309	0.255	0.148		



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### 6 **Test Setup Photos**

Refer to Appendix - Test Setup Photo for SZCR2312004011AT

- End of the Report -



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