

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000379502

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Human Exposure Report

SZCR2410003795AT **Application No.:** Applicant: Annex Products Pty Ltd

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

Manufacturer: Annex Products Ptv Ltd

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

Shenzhen Huagon Technology Co Ltd Factory:

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

community, Dalang street, Longhua District, Shenzhen

Equipment Under Test (EUT):

Waterproof Wireless Charger **EUT Name:**

Model No.: QL-7115 Trade Mark: QUAD LOCK FCC ID: 2AOU9-WWCH

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

47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2024-10-14

Date of Test: 2024-10-15 to 2024-10-28

Date of Issue: 2024-10-31

Test Result: Pass*

Ceny. Ku



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^{*} In the configuration tested, the EUT complied with the standards specified above



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Revision Record							
Version	Chapter	Date	Modifier	Remark			
01		2024-10-31		Original			

Authorized for issue by:			
	Gebin Sun		
	Gebin Sun/Project Engineer	_	
	Exic Fu		
	Eric Fu/Reviewer	_	



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General Information 3

Details of E.U.T.

Power supply:	Input:DC12-15V 2A(MAX)
	QC3.0+PD3.0: 5V 2A/9V 2A/12V 2A
	Output:5W/7.5W/10W/15W
Cable(s):	PD cable: 105cm unshielded
	QC cable: 105cm unshielded
	1A cable: 105cm unshielded
	2A cable: 105cm unshielded
Operation frequency:	112.2kHz to 150.8kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

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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	YZB	A2244	Client supply	
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 4

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	MAGPy-8H3D+E3D	SPEAG	MAGPy	SEM060-31	2025-04-11
3	MAGPy-DAS	SPEAG	MAGPy	SEM060-32	2025-04-11



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Test Results 5

RF Exposure test

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

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 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	/	1	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	/	1	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).

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C 55.2 % 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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^{*=}Plane-wave equivalent power density



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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 (QC 5W)
Pre-scan	01	Charging mode_Keep the EUT charging (QC 7.5W)
Pre-scan	02	Charging mode_Keep the EUT charging (QC 10W)
Final test	03	Charging mode_Keep the EUT charging (QC 15W)
Pre-scan	04	Charging mode_Keep the EUT charging (PD 5W)
Pre-scan	05	Charging mode_Keep the EUT charging (PD 7.5W)
Pre-scan	06	Charging mode_Keep the EUT charging (PD 10W)
Pre-scan	07	Charging mode_Keep the EUT charging (PD 15W)
Pre-scan	08	Charging mode_Keep the EUT charging (2A 5W)
Pre-scan	09	Charging mode_Keep the EUT charging (2A 7.5W)
Pre-scan	10	Charging mode_Keep the EUT charging (2A 10W)
Pre-scan	11	Charging mode_Keep the EUT charging (2A 15W)
Pre-scan	12	Charging mode_Keep the EUT charging (1A 5W)
Pre-scan	13	Charging mode_Keep the EUT charging (1A 7.5W)



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5.1.3 **Measurement Data**

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe	Measure Resu	50 % Limit (A/m)	10 % Limit (A/m)	
			unload	Half load	full load		
129.2 kHz		Side 1	0.044	0.815	0.013	0.815	0.163
which is the worst		Side 2	0.039	0.021	0.010		
case	20	Side 3	0.042	0.019	0.012		
within the operation	е	Side 4	0.041	0.022	0.017		
frequency range		Тор	0.069	0.035	0.023		

Flectric Field Emissions

Flectric Field	u Emissions	S					
Operation frequency	Test Distance (cm)	Test Position	Probe	Measure Resu	50 % Limit (V/m)	10 % Limit (V/m)	
			unload	Half load	full load		
129.2 kHz		Side 1	0.70	0.37	0.21		
which is the worst		Side 2	0.68	0.33	0.18		
case within the operation frequency range	926	Side 3	0.57	0.27	0.15	307	61.4
	20	Side 4	0.62	0.35	0.19		
		Тор	1.49	0.74	0.42		



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6 **Test Setup Photos**

Refer to Appendix - Test Setup Photo for SZCR2410003795AT

- End of the Report -



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