

EMC-TRF-03 Rev 1.1

Report No.: GZCR240100008703 Page: 1 of 9 FCC ID: 2BCO7-50697A7A61

RF EXPOSURE EVALUATION REPORT

Application No.:	GZCR2401000087AT
Applicant:	Ooni Ltd.
Address of Applicant:	189 W, Main St., Broxburn, Scotland, EH52 5LH
Manufacturer:	VELONG ENTERPRISES CO., LTD
Address of Manufacturer:	NO.3-7 WEST Of 5TH NAJIN ROAD, NORTH OF 4TH HUODA ROAD, NAHUO INDUSTRIAL ZONE, YANGDONG, YANGJIANG, GUAGNDONG, CHINA
Factory:	VELONG ENTERPRISES CO., LTD
Address of Factory:	NO.3-7 WEST Of 5TH NAJIN ROAD, NORTH OF 4TH HUODA ROAD, NAHUO INDUSTRIAL ZONE, YANGDONG, YANGJIANG, GUAGNDONG, CHINA
Product Name:	Digital Temperature Hub
Model No.:	UU-C00182
Standard(s) :	47 CFR Part 1.1310
	KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt:	2024-01-19
Date of Evaluation:	2024-02-05
Date of Issue:	2024-05-15
Evaluation Result:	Pass*

* In the configuration evaluated, the EUT complied with the standards specified above.

Ridgy Lin

Ricky Liu Manager



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	Revision Record				
Version Report No. Date Remark					
01	GZCR240100008703	2024-05-15	Original		

Authorized for issue by:		
	Jim Li	
	Jim Li/Project Engineer	
	vius cui	
	Vico Cui/Reviewer	



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Evaluation Summary 2

ltem	Standard	Method	Requirement	Result
RF Exposure	KDB447498 D01 General RF Exposure Guidance v06	KDB447498 D01 General RF Exposure Guidance v06	47 CFR Part 1.1310	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3V = size 'AA' 1.5V x2pcs
Test voltage:	DC 3V for EUT working.
Cable(s):	None
RF character:	Refer to report GZCR240100008702 for BLE detail.

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.

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059 No tests were sub-contracted.

4.3 Facility

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

• ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

• VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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- 4.4 Deviation from Standards None
- 4.5 Abnormalities from Standard Conditions None



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5 Technical Requirements Specification

5.1 General Description of Applied Standards

KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions,

by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.2 RF Exposure Evaluation

5.2.1 Limit & Test Method

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1-LIMITS FOR MAXIMU	IM PERMISSIBLE EXPOSURE (N	MPE)
---------------------------	----------------------------	------

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposu	res	
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 General Population/Uncontrolled Exposure

0.3–1.34	614	1.63	*(100)	30		
1.34–30	824/f	2.19/f	*(180/f ²)	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

Friis Formula

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

Where

 P_d = power density in mW/cm²

 P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

P_i = 3.1416

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

 P_d id the limit of MPE, 1 mW/cm². 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.



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5.2.2 Conclusion

Normal use condition for >20cm declared by applicant Distance between antenna and body:

Antenna Gain: 4.08 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S)	Test Result
		(()	(,	(mW/cm ²)	
2402	2.559	-1.62	0.689	0.00035	1	Complies
2440	2.559	-1.58	0.695	0.00035	1	Complies

So SAR report is not required.

Note: Refer to report No. GZCR240100008702 for EUT test Max Conducted Peak Output Power value.



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EUT Constructional Details (EUT Photos) 6

Refer to External and Internal Photos for GZCR2401000087AT

- End of the Report -



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