RF Exposure Evaluation Report

Product	:	U RF
Trade mark	:	Sensica
Model/Type reference	:	See section 3.2
Serial Number	:	N/A
Report Number	:	EED32Q82013902
FCC ID	:	2ABRVST400XX
Date of Issue	:	Jan. 17, 2025
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093 KDB 447498 D04 Interim General RF Exposure Guidance v01
Test result	:	PASS

Prepared for:

EL Global Trade LTD
6th Ha-Gavish St., 4250706, Netanya, Israel

Prepared by:

Centre Testing International Group Co., Ltd.
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Approved by:	Aaron Ma	Date:	Jan. 17, 2025

Check No.: 4224041224

1 Version

Version No.	Date	Description
00	Jan. 17, 2025	Original

2 Contents

3 General Information

3.1 Client Information

Applicant:	EL Global Trade LTD
Address of Applicant:	6th Ha-Gavish St., 4250706, Netanya, Israel
Manufacturer:	EL Global Trade LTD
Address of Manufacturer:	2870 Peachtree Rd NW Atlanta, GA 30305
Factory:	EL GLobal Trade LTD
Address of Factory:	NO.1, NO.11 (2-6 floor), Row 3, Yuquan East Road, YuLvCommunity, YuTang Street GuangMing District, Shenzhen, China

3.2 General Description of EUT

Product Name:	U RF
Model No.:	ST400US04SNS, ST400XXYYZZZ
Test Model:	ST400US04SNS
Trade Mark:	Sensica

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Test Power Grade:	Default	
Test Software of EUT:	RTL8762C_RFTestTool_v1.0.0.8.exe	
Antenna Type:	Ceramic Antenna	
Antenna Gain:	-0.081dBi	
Power Supply:	Adapter:	DC 12V
	Battery	7.4V
Sample Received Date:	Dec. 25, 2024	
Sample tested Date:	Dec. 25, 2024 to Jan. 02, 2025	
Remark: Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.		

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).
This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{\text{th}}\,(\text{mW}) = \begin{cases} ERP_{20\text{ cm}}(d/20\text{ cm})^{x} & d \le 20\text{ cm} \\ ERP_{20\text{ cm}} & 20\text{ cm} < d \le 40\text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\text{ cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}}\,(\text{mW}) = ERP_{20\text{ cm}}\,(\text{mW}) = \begin{cases} 2040f & 0.3\text{ GHz} \le f < 1.5\text{ GHz} \\ 3060 & 1.5\text{ GHz} \le f \le 6\text{ GHz} \end{cases} \qquad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure Evaluation

For Stand alone:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@2.4GHz	0.5	4.22	-0.081	1.99	1.5809	2.717	0.5818	Pass

Note：

①EIRP=conducted power+antenna gain；

②ERP=EIRP-2.15;

③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;

④ERP(mW) = 10^(ERP (dBm)/10);

⑤The estimation distance is 0.5cm;

⑥The test data please refer to the module's (FCC ID: 2ACCREHMC17) report of SHE24040083-02DE. and only the worst case data was recorded in the report.

声明

Statement

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;

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The result(s) shown in this report refer(s) only to the sample(s) tested;

4. 除非另有说明，报告参照 ILAC-G8:09/2019/CNAS-GL015：2022 使用简单接受判定规则进行符合性判定；
Unless otherwise stated,the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;

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*** 报告结束 ***

*** End of Report ***