FCC SAR Exclusion Report



Product name : Nova 2.0

Applicant : SenseGlove

FCC ID :2A24H-NOVA02

Test report No.: P000339969 003 Ver 2.0

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Laboratory information

Accreditation

Kiwa Nederland B.V. complies with the accreditation criteria for test laboratories as laid down in ISO/IEC 17025:2017. The accreditation covers the quality system of the laboratory as well as the specific activities as described in the authorized annex bearing the accreditation number L248 and is granted by the Dutch Council For Accreditation (RvA: Raad voor Accreditatie).

Kiwa Nederland B.V. is designated by the FCC as an Accredited Test Firm for compliance testing of equipment subject to Certification under Parts 15 & 18. The Designation number is: NL0001.

Kiwa Nederland B.V. is a Wireless Device Testing laboratory recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements.

The Industry Canada company number for Kiwa Nederland B.V. is: 4173A. The CABID is NL0001.

Kiwa Nederland B.V. is a registered Conformity Assessment body (CAB) under the Japan-EC MRA (Agreement on Mutual Recognition between Japan and the European Community). The registration number is: 201.

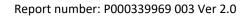
Documentation

The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 10 years at Kiwa Nederland B.V.

Testing Location

5541118 255441511		
Test Site	Kiwa Nederland B.V.	
Test Site location	Wilmersdorf 50	
	7327 AC Apeldoorn	
	The Netherlands	
	Tel. +31 88998 3393	
Test Site FCC	NL0001	
CABID	NL0001	

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Revision History

Version	Date	Remarks	Ву
v0.50	15-01-2024	First draft	PvW
v1.00	15-01-2024	Final release	PvW
V2.0	12-02-2024	Updated applicant and manufacturer name and email	PvW

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1 General Description

Applicant 1.1

Client name: SenseGlove

Molengraaffsingel 12, Delft, the Netherlands Address:

Zip code:

Telephone:

E-mail: johannes@senseglove.com

Contact name: Johannes Luijten

1.2 Manufacturer

Manufacturer name: SenseGlove

Address: Molengraaffsingel 12, Delft, the Netherlands

2629 JD Zip code:

Telephone:

E-mail: johannes@senseglove.com

Contact name: Johannes Luijten

Tested Equipment Under Test (EUT)

Product name: Nova 2 **Brand name:** Senseglove FCC ID: 2A24H-NOVA02

Haptic Input device for Virtual Reality **Product type:**

Model(s): **Pilot Series** Batch and/or serial No. **NV2 PILOT 1L Software version:** SenseCom 1.4.1 Hardware version: Revision D Date of receipt: 03-11-2023 **Tests started:** 03-11-2023

Testing ended: 10-11-2023

1.4

Applicable standards

47 CFR § 1.1307 (b)(1)(i)(A)

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1.5 Conclusions

The sample of the product showed **NO NON-COMPLIANCES** to the specifications stated in paragraph 1.4 of this report.

The results of the test as stated in this report, are exclusively applicable to the product items as identified in this report. Kiwa Netherland B.V. accepts no responsibility for any properties of product items in this test report, which are not supported by the tests as specified in paragraph 1.4 "Applicable standards".

Assessment is performed by:

Name : P. van Wanrooij, BASc

Review of assessment methods and report by:

Name : ing. M.H. Khan

The above conclusions have been verified by the following signatory:

Date : 13-02-2024

Name : ing. M.H. Khan

Signature :

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2 SAR exclusion Evaluation

2.1 Transmitter specifications

Bluetooth EDR

Variable (unit)	Value	Symbol
Conducted time-averaged output power (mW)		P
Time-averaged output power ERP (mW)	2.98	P _{ERP}
Operating frequency range (MHz)	2400 – 2483.5	f
Separation distance (cm)	1	d
Separation distance (m)	0.01	R

2.2 Evaluation calculations

Bluetooth EDR

Bluetooth EDR is evaluated according to method B of KDB 447498 D04 v01

Method B:

$$P_{th}(mW) = \left\{ \begin{aligned} ERP_{20cm} \left(\frac{d}{20cm} \right)^x & d \leq 20 \ cm \\ ERP_{20cm} & 20 \ cm < d \leq 40 \ cm \end{aligned} \right.$$

Where:

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

$$ERP_{20cm}(mW) = \{ egin{array}{ll} 2040*f & 0.3~GHz \leq f < 1.5~GHz \\ 3060 & 1.5~GHz \leq f \leq 6.0~GHz \ \end{array} \}$$

Filling in the values of d (cm) and f (GHz) as reported in clause 2.1 in the equations above gives the result: $P_{th} = 10.4 \text{ mW}$

P or P_{ERP} = 2.98 mW which is less than the calculated P_{th} so the EUT complies with the SAR based exemption requirement.

2.3 Conclusion

Since the EUT does not cause exposure in excess of the general population limit (defined in 47 CFR 1.1310 e) (ii)), no additional mitigation actions are required.

<<END OF REPORT>>

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