



- FCC Registration Number: NL0002 / 375449

Assessment report No:

2303562.0509A-RSM

Assessment report

RF EXPOSURE REPORT ACCORDING TO

FCC 47 CFR Part 2.1093

FCC 47 CFR Part 1.1307

(*) Identification of item tested	Rokoko Smartgloves II
(*) Trademark	Rokoko
(*) Model and /or type reference	Smartgloves II
(*) Other identification of the product	FCC ID: 2BCY2-RKKSG02
(*) Derived model	N/A
(*) Features	Wi-Fi (2,4 GHz and 5 GHz)
(*) Applicant's name / address	Rokoko Sankt Getruds Straede 10, 1129 Copenhagen, Denmark
Assessment method requested, standard	FCC 47 CFR Part 2.1093. Radiofrequency radiation exposure evaluation: portable devices. FCC 47 CFR Part 1.1307: Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.
Verdict Summary	IN COMPLIANCE
Assessment performed by (name / position & signature)	Jose Carlos Luque Technical Professional EMC&Wireless 
Approved by (name / position & signature)	Sedat Eser Operational Manager EMC&Wireless 
Date of issue	2026-07-14
Report template No	TRF_RSM_MPE_FCC2.1093_dev_R2.0 (*) "Data provided by the applicant"

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

1. This report is only referred to the item that has undergone the assessment.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
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POSSIBLE ASSESSMENT CASE VERDICTS

Assessment case does not apply to test object	N/A
Assessment object does meet requirement	P (Pass) / PASS
Assessment object does not meet requirement	F (Fail) / FAIL

DEFINITION OF SYMBOLS USED IN THIS ASSESSMENT REPORT

☒ Indicates that the listed condition, standard or equipment is applicable for this report/Assessment/EUT.			
☐ Indicates that the listed condition, standard or equipment is not applicable for this report/Assessment/EUT.			
Decimal separator used in this report	☒	Comma (,)	☐ Point (.)

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

ASK	: Amplitude Shift Keying
BER	: Bit Error Rate
ERP/e.r.p.	: effective radiated power
EMC	: ElectroMagnetic Compatibility
EMF/emf	: ElectroMagnetic Field
ERC	: European Radiocommunications Committee
EUT / DUT	: Equipment Under Test / Device Under Test
HF	: High Frequency (range)
ISM	: Industrial, Scientific and Medical
ITU-T	: ITU-Telecommunication sector
LF	: Low Frequency
NFC	: Near Field Communication
OATS	: Open Area Test Site
OBW	: Occupied BandWidth
OFR	: Operating Frequency Range
R&TTE	: Radio and Telecommunications Terminal Equipment
RF	: Radio Frequency
RFID	: Radio Frequency Identification
RMS	: Root Mean Square
RX	: Receiver
SND	: Signal, Noise and Distortion
SND/ND	: Signal, Noise and Distortion over Noise and Distortion
SRD	: Short Range Device
TR	: Technical Report
TX	: Transmitter
MS	: Mobile Station

DATA PROVIDED BY THE APPLICANT

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item to be assessed", "Trademark", "Model and/or type reference", Features).
2. Maximum output power and maximum antenna gain information.
3. Information provided by the client in the form ROKOKO Application form - RF_Exposure Assessment v3.0.docx.
4. Declaration of modifications. See Annex 2.

DEKRA Certification B.V. declines any responsibility with respect to the information provided by the applicant and that may affect the validity of results.

According to the manufacturer, during its normal use, the separation distance between the device and the body of nearby users will be greater than 0,74 cm. In order to perform the assessment a conservative evaluation distance of 0,74 cm has been used.

The conducted output power values and the real duty cycle have been measured and are reported in DEKRA Certification B.V. test report num. 2303562.0511A-RSM for WiFi 5GHz The real duty cycle has been measured and reported in DEKRA Certification B.V. test report num. 2303562.0512-RSM for WiFi 2.4GHz.

The equipment specifications declared by the manufacturer for each supported technologies are:

Technology / Mode	Operating Band	Frequency under evaluation (MHz)	Maximum Conducted Output Power (Incl. Tune-Up) (dBm)	Duty Cycle (%)	Time Averaged Conducted Power (dBm)	Antenna peak gain (dBi)	Cable loss (dB)	Maximum Averaged E.R.P (dBm)	Maximum Averaged E.R.P (mW)	Maximum Averaged E.I.R.P (dBm)	Maximum Averaged E.I.R.P (mW)
802.11b/g/n	2.4 GHz	2412 - 2462	10,00	70,00	8,45	0,72	0,00	7,02	5,04	9,17	8,26
802.11a/n/ac	U-NII-1	5150 - 5250	-5,04	70,00	-6,59	1,25	0,00	-7,49	0,18	-5,34	0,29
802.11a/n/ac	U-NII-2	5260 - 5320	-4,60	70,00	-6,15	1,25	0,00	-7,05	0,20	-4,90	0,32
802.11a/n/ac	U-NII-3	5725 - 5850	-21,47	70,00	-23,02	1,25	0,00	-23,92	0,00	-21,77	0,01

Table 1 Equipment specification

The device does not support simultaneous transmission.

DOCUMENT HISTORY

Report nr.	Date	Description
2303562.0509-RSM	2026-04-08	First release.
2303562.0509A-RSM	2026-07-14	Second release. The IC identifier was removed from the module containing the product. They were included a references of WiFi 2.4GHz (2303562.0512-RSM and 2303562.0511A-RSM reports. The values of U-NII-1, U-NII-2 and U-NII-3 were updated. This revision of the test report cancels and replaces the test report with a reference number 2303562.0509-RSM.

CONCLUSION, REMARKS AND COMMENTS

The equipment under test (EUT) does meet the requirements of the applicable standard(s).

1. GENERAL INFORMATION

1.1 General Description of the Item(s).

Description of the item.....:	Rokoko Smartgloves II
Model / Type number	Smartgloves II
Serial number.....:	prototype #1 and prototype #2
Trademark	Rokoko
Manufacturer.....:	TKT Electronics ApS
Address	H.C. Oerstedsvej 8, 7800 Skive, Denmark

Operating frequency range(s) – Tx :	Wi-Fi 2.4GHz: 2.412 GHz – 2462 GHz Wi-Fi 5GHz: 5.150 GHz – 5.350 GHz / 5.725 GHz – 5.850 GHz
Operating frequency range(s) – Rx :	Wi-Fi 2.4GHz: 2.412 GHz – 2462 GHz Wi-Fi 5GHz: 5.150 GHz – 5.350 GHz / 5.725 GHz – 5.850 GHz
Type of Modulation.....:	Wi-Fi 2.4GHz: 802.11b (DSSS) / 802.11g/n HT20 (OFDM) Wi-Fi 5GHz: 802.11a/n HT20 (OFDM)
Number of channel.....:	Wi-Fi 2.4GHz: 11 Wi-Fi 5GHz: 8 (36 to 64) / 5 (149 to 165)
Antenna type.....:	RSIA7 PCB Trace Antenna
Antenna gain.....:	Wi-Fi 2.4GHz: 0.712 dBi Wi-Fi 5GHz: 1.25 dBi

Rated power supply.....:	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	☐	AC:	☐	☐	☐	☐	☐
	☐	DC:					
	☒	Battery					
Rated Power	5 V						
Clock frequencies.....:	192 MHz						
Software version	3.0.1						
Hardware version	V1.0						
Dimensions in cm (W x H x D).....:	26.5 x 9 x 3						
Mounting position.....:	☐	Table top equipment					
	☐	Wall/Ceiling mounted equipment					
	☐	Floor standing equipment					
	☐	Hand-held equipment					
	☒	Other: Wearable					

Intended use of the Equipment Under Test (EUT)
Capture accurate finger motions with smartgloves

No	Module/parts of test item	Type	Manufacturer
1	Control electronic box including wifi Module	Smartgloves II	Rokoko

Modifications to the test item during testing	☒	N/A	☐	Refer to the chapter.
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No	Documents as provided by the applicant - Description	File name	Issue date
1	General information form	ROKOKO General information form v2	22-10-2025
2	RF Exposure assessment	ROKOKO Application form - RF_Exposure Assessment v3.0	24-02-2026
3	Modification during testing	Rokoko modification letter_SignedJB	17-02-2026

Copy of marking plate:



1.2 Derived models.

There is not deviced models.

2. RF Exposure Assessment result and verdict

RF Exposure Exemption evaluation:

The determination of the exemption for the minimum intended use distance of 7.4 mm applied for the evaluation will result as follows:

Technology / Mode	Operating Band	Frequency under evaluation (MHz)	Distance (cm)	Time Averaged Conducted Power (mW)	§1.1307(b)(3).i.(A) Exposure Limit (mW)	§1.1307(b)(3).i.(C) Exposure Limit (mW)	§1.1307(b)(3).i.(B) Exposure Limit (mW)	Verdict
802.11b/g/n	2.4 GHz	2412 - 2462	0,74	7,00	N/A	N/A	14,41	Pass
802.11a/n/ac	U-NII-1	5150 - 5250	0,74	0,22	N/A	N/A	8,38	Pass
802.11a/n/ac	U-NII-2	5260 - 5320	0,74	0,24	N/A	N/A	8,30	Pass
802.11a/n/ac	U-NII-3	5725 - 5850	0,74	0,00499	N/A	N/A	7,75	Pass

Table 1: FCC Exemption Evaluation Result

The computed value(s) are below the exemption limit(s), so these modes meet the requirements stated in FCC 47 CFR Part 1.1307.

3. ANNEX 1 - FCC RF Exposure Information

FCC RF Exposure determination of exemption

According to FCC 47 CFR §1.1307 (b)(3) Determination of exemption:

(i) For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2), a single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

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

Where

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

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

TABLE 1 TO §1.1307(b)(3)(i)(C)—SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

(ii) For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for Pth, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth,j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

Evaluated,k = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limit,k = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from §1.1310 of this chapter.

FCC RF Exposure evaluation

Limits for Maximum Permissible Exposure (MPE) for RF sources are defined in FCC 47 CFR “§1.1310 Radiation Exposure limits, paragraph (e)”:

TABLE 1 TO §1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) 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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Each supported transmission technology will be evaluated to determine if it is in compliance with limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.

In order to perform the assessment, the following equations have been used for the calculations; these equations are accurate in the far-field of an antenna and will over-predict power density in the near field, where they could be used for making a "worst-case" or conservative prediction:

$$\text{Power density: } S[\text{mW/cm}^2] = \frac{P_{E.I.R.P.}[\text{mW}]}{4\pi R[\text{cm}]^2}$$

Where:

S = power density

$P_{E.I.R.P.}$ = Equivalent isotropically radiated power

R = distance to the center of radiation of the antenna (evaluation distance)

$$P_{E.I.R.P.} = P_T + G_T - L_C$$

Where:

P_T = transmitter time-averaged output power (including Duty Cycle and tune-up tolerance, if applicable)

G_T = gain of the transmitting antenna

L_C = signal attenuation in the connecting cable between the transmitter and the antenna if applicable

4. ANNEX 2: Declaration of modifications

To comply with the requirements of the Radiated Spurious Emission tests in the range of 30 – 1000 MHz, the following modifications have been done:



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1129 Copenhagen, Denmark

Modifications during testing:

We Rokoko declare that we have implemented the following modifications for the Smart Gloves II / RKK-SG-02 to comply with the required regulations.
Once the final test reports are finalized we will implement the registered modifications into the production.

Component	Old value Ω	New value Ω	PCB	Placement
R66	22	220	Arm	Converter side
R164	22	220	Hub	CPU side top left corner
R165	22	220	Hub	CPU side top left corner
R34	33	100	Hub	CPU side top edge
R49	33	100	Hub	CPU side top edge
R37	33	100	Hub	CPU side left edge
R36	33	100	Hub	CPU side left edge
R42	33	330	Hub	By finger sensor connector

- Arm sensor changes: 22 Ohm to 220 Ohm resistor (NO PCB change)
- Satellite changes: Added status LED that is controlled by hub using the ffc connector. Added components for a more gradual startup of the Smartgloves (PCB change).
- Hub changes: Resistor changes to dampen unwanted signal emission. Added signals to control new LED. Slightly moved components to fit ffc cable (minor PCB change).
- Concerning the output TX power at 2.4 GHz., we have changed the output power settings in the software to be compliant.

Rokoko Electronics ApS
Jakob Balslev

CEO & Founder

END OF REPORT