

RF-TEST REPORT

- Human Exposure -

Type / Model Name : LumiGuide Docking Base for LumiGuide Equipment / 722480

Product Description: RFID reader for visualization device with

Fiber Optic Realshape (FORS) technology. RFID 13.56 MHz

Applicant: Philips Medical Systems Nederland B.V.

Address : Veenpluis 6

Best, North Brabant

5684 PC, Netherlands

Manufacturer : Philips Medical Systems Nederland B.V.

Address : Veenpluis 6

Best, North Brabant

5684 PC, Netherlands

Test Result according to the standards listed in clause 1 test standards:

POSITIVE

Test Report No. : 80140361-04 Rev_0

06. July 2023

Date of issue



DAKKS

Deutsche
Akkreditierungsstelle
D-PL-12030-01-03
D-PL-12030-01-04

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1 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules and Regulations Part 1, Subpart I - Procedures Implementing the National Environmental Policy

Act of 1969

Part 1, Subpart I, Section 1.1310 Radiofrequency radiation exposure limits

Part 1, Subpart 2, Section 2.1091 Radiofrequency radiation exposure evaluation: **mobile devices**.

Part 1, Subpart 2, Section 2.1093 Radiofrequency radiation exposure evaluation: **portable devices**.

KDB 447498 D04 v01 RF Exposure procedures and equipment authorisation policies for

mobile and portable devices, November 29, 2021.

ANSI C95.1: 2005 IEEE Standard for Safety Levels with respect to Human Exposure to

Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz

ETSI TR 100 028 V1.3.1: 2001-03, Electromagnetic Compatibility and Radio Spectrum Matters (ERM);

Uncertainties in the Measurement of Mobile Radio Equipment

Characteristics—Part 1 and Part 2

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2 **EQUIPMENT UNDER TEST**

2.1 Information provided by the Client

Please note, we do not take any responsibility for information provided by the client or his representative which may have an influence on the validity of the test results.

2.2 Sampling

The customer is responsible for the choice of sample. Sample configuration, start-up and operation is carried out by the customer or according his/her instructions.

2.3 Photo documentation of the EUT

Detailed photos see ATTACHMENT A and ATTACHMENT B

ATTACHMENT A: External views ATTACHMENT B: Internal views

2.4 Equipment type, category

mobile equipment

2.5 Short description of the equipment under test (EUT)

LumiGuide Docking Base for LumiGuide Equipment RFID reader for visualization device with Fiber Optic Realshape (FORS) technology. RFID technology (13.56 MHz)

Number of tested samples: 1

Serial number: SVER 2

2.6 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- Continous reading mode (13.56 MHz).

2.7 Power supply system utilised

Power supply voltage is: $V_{nom} = 5.00 \text{ V DC (powered over USB)}$



3 TEST RESULT SUMMARY

FCC Rule Part	Description	Result
KDB 447498, 2.1.2	1-mW Test Exemption	passed

3.1 Revision history of test report

Test report No	Rev.	Issue Date	Changes
80140361-04	0	06 July 2023	Initial test report

The test report with the highest revision number replaces the previous test reports.

3.2 Final assessment

The equipment under test fulfills the	he req	uirements cited in clause 1	test standard	ds.	
Date of receipt of test sample	:	acc. to storage records			
Testing commenced on	:	06 July 2023			
Testing concluded on	:	06 July 2023			
Checked by:			Tested b	y:	
Klaus Gegenfurtner Team Lead Radio				Markus Friedl Radio Team	

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.



4 TEST ENVIRONMENT

4.1 Address of the test laboratory

CSA Group Bayern GmbH Ohmstrasse 1-4 94342 STRASSKIRCHEN GERMANY

4.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15 - 35 °C

Humidity: 30 - 60 %

Atmospheric pressure: 86 - 106 kPa

4.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. It is noted that the expanded measurement uncertainty corresponds to the measurement results from the standard measurement uncertainty multiplied by the coverage factor k=2. The true value is located in the corresponding interval with a probability of 95 %. The measurement uncertainty was calculated for all measurements listed in this test report on basis of the ETSI Technical Report TR 100 028 Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1 and Part 2. The results are documented in the quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

4.4 Conformity Decision Rule

The applied conformity decision rule is based on ILAC G8:09/2019 clause 4.2.1 Binary Statement for Simple Acceptance Rule (w = 0).

Details can be found in the procedure CSA B V50 29.



5 HUMAN EXPOSURE

5.1 RF Exposure Test Exemptions for Single Source

For test instruments and accessories used see section 6 Part RF.

5.1.1 Applicable standard

RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

5.1.2 Photo documentation of the test set-up

See ATTACHMENT C to this test report. (Location of measurement points)

5.1.3 1-mW Test Exemption

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

EUT (Top part):

Frequency [MHz]	Distance	EIRP			Calculated EIRP	RF Exposure	Result
	Position		[mw]	Limit [mW]			
13.56	1	-56.8	0.000002	1	passed		
13.56	2	-74.4	0.00000003	1	passed		
13.56	3	-73.5	0.00000004	1	passed		
13.56	4	-61.7	0.0000008	1	passed		
13.56	5	-62.2	0.0000006	1	passed		
13.56	Тор	-70.9	0.00000008	1	passed		
13.56	Bottom	-68.0	0.0000001	1	passed		

EUT (Bottom part):

Frequency [MHz]	Distance Position	0 cm EIRP [dBm]	Calculated EIRP [mw]	RF Exposure Limit [mW]	Result
13.56	1	-64.1	0.0000004	1	passed
13.56	2	-63.9	0.0000004	1	passed
13.56	Тор	-63.4	0.0000005	1	passed
13.56	Bottom	-76.2	0.00000002	1	passed

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Rev. No. 6.3, 2021-11-03



	FCC ID: 2AQ4B-722480			
The requirements are FULFILLED .				
Remarks:	None			
Remarks.	Notice			



6 USED TEST EQUIPMENT AND ACCESSORIES

All test instruments used, in addition to the test accessories, are calibrated and verified regularly.

Test ID Model Type Equipment No. Next Calib. Last Calib. Next Verif. Last Verif.

RF FSW43 02-02/11-15-001 04/05/2024 04/05/2023

HFRAE 5161 _ 50 kHz-120 02-02/24-11-004