

Exposure Test Report

MK Versuchsanlagen GmbH & Co. KG

Model: PTD2

In accordance with FCC 47 CFR and ISED
RSS-102

Prepared for: MK Versuchsanlagen GmbH & Co. KG
Stückweg 10
35325 Mücke
Germany

FCC ID: 2BSC2-MKPTDX
IC: 34116-MKPTDX
Contains FCC ID: XF6-RS9113DB
Contains IC: 8407A-RS113DB



Product Service

Add value.
Inspire trust.

COMMERCIAL-IN-CONFIDENCE

Date: 2025-10-20

Document Number: TR-713384907-00 | Revision 0

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Project Management	Alexander Deese	2025-10-20	 SIGN-ID 1082006
Authorised Signatory	Martin Steindl	2025-10-20	 SIGN-ID 1082018

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service document control rules.

Engineering Statement:

This measurement shown in this report were made in accordance with the procedures described on test pages.

All reported testing was carried out on a sample equipment to demonstrate limited compliance with with FCC 47 CFR and ISED RSS-102.

The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Alexander Deese	2025-10-20	 SIGN-ID 1082006

Laboratory Accreditation

DAkkS Reg. No. D-PL-11321-11-03

DAkkS Reg. No. D-PL-11321-11-04

Laboratory recognition

Registration No. BNetzA-CAB-16/21-15

Industry Canada test site registration

3050A-2

Executive Statement:

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 1:2025 and ISED RSS102, Issue 6, 2023 in the tested parts.



DISCLAIMER AND COPYRIGHT

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question. It does not imply a general statement regarding the quality of products from regular production. For further details please see Testing, Certification, Validation and Verification Regulations, chapter A-3.3.

© 2025 TÜV SÜD Product Service.

Trade Register Munich
HRB 85742
VAT ID No. DE129484267
Information pursuant to Section 2(1)
DL-InfoV (Germany) at
www.tuvsud.com/imprint

Supervisory Board:
Holger Lindner (Chairman)
Board of Management:
Wolfgang Hübl (CEO)
Karl Meier
Patrick van Welij

Phone: +49 (0) 9421 56 82-0
Fax: +49 (0) 9421 56 82-199
www.tuvsud.com

TÜV SÜD Product Service GmbH
Äußere Frühlingsstraße 45
94315 Straubing
Germany



Content

1	Report Summary	2
1.1	Modification Report	2
1.2	Introduction	2
1.3	Brief Summary of Results.....	3
1.4	Product Information	4
1.5	Test Configuration	4
1.6	Modes of Operation.....	4
1.7	Deviations from Standard.....	4
1.8	EUT Modifications Record.....	5
1.9	Test Location.....	5
2	Test Details	6
2.1	RF Exposure	6
2.2	Nerve Stimulation.....	15
3	Photos of Test Setup	22
4	Measurement Uncertainty	23



1 Report Summary

1.1 Modification Report

Alternations and additions to this report will be issued to the holders of each copy in the form of a complete document. The current version replaces all previous versions.

Revision	Description of changes	Date of Issue
0	First Issue	2025-10-20

Table 1: Report of Modifications

1.2 Introduction

Applicant	MK Versuchsanlagen GmbH & Co. KG
Manufacturer	MK Versuchsanlagen GmbH & Co. KG
Model Number(s)	PTD2
Serial Number(s)	WOPS2412022 (Version with 2.4 GHz Wifi) WOPS1409017 (Version with 5 GHz Wifi)
Hardware Version(s)	---
Software Version(s)	---
Number of Samples Tested	1
Test Specification(s) /	FCC 47 CFR, Part 1, § 1.1307: 2025 and
Issue / Date	ISED RSS-102, Issue 6: 2023
Test Plan/Issue/Date	---
Order Number	8253014-1
Date	2025-09-17
Date of Receipt of EUT	2025-09-22
Start of Test	2025-10-08
Finish of Test	2025-10-08
Name of Engineer(s)	Alexander Deese
Related Document(s)	ANSI C63.10:2013 KDB 447498 D04 v01 RSS-102.NS.MEAS



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR, Part 1, § 1.1307 and ISED RSS-102 is shown below.

<i>Section</i>	<i>Specification Clause</i>	<i>Test Description</i>	<i>Result</i>
2.1	(b)(3)	RF Exposure Exemption	Pass

Table 2: Results according to FCC 47 CFR, Part 1, § 1.1307(b)(3)

<i>Section</i>	<i>Specification Clause</i>	<i>Test Description</i>	<i>Result</i>
2.1	6.3	RF Exposure Exemption	Pass
2.2	7.3	Nerve Stimulation	Pass

Table 3: Results according to ISED RSS-102



1.4 Product Information

1.4.1 Technical Description

The EUT is a glove leak testing device.

<i>Frequency Band(s):</i>	119 kHz to 135 kHz 2400 MHz to 2483.5 MHz 5150 MHz to 5350 MHz 5470 MHz to 5725 MHz
<i>Supply Voltage:</i>	3.6 V DC – Battery powered
<i>Supply Frequency:</i>	---

1.5 Test Configuration

DC power supplied – The EUT is powered with 3.6 V DC lithium-ion battery.

1.6 Modes of Operation

Test Case 1:

WiFi; Channel 1; 2412 MHz, BW 20 MHz
RFID; Polling continuously

Test Case 2:

WiFi; Channel 11; 2462 MHz, BW 20 MHz
RFID; Polling continuously

Test Case 3:

WiFi; Channel 36; 5180 MHz, BW 20 MHz
RFID; Polling continuously

Test Case 4:

WiFi; Channel 140; 5700 MHz, BW 20 MHz
RFID; Polling continuously

1.7 Deviations from Standard



1.8 EUT Modifications Record

The table below details modifications made to the EUT during the test program.
The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
0	As supplied by the customer	Not Applicable	Not Applicable

Table 4

1.9 Test Location

TÜV SÜD Product Service conducted the following tests at our Straubing test laboratory:

Test Name	Name of Engineer(s)
RF Exposure	Alexander Deese
Nerve Stimulation	Alexander Deese

Office Address:

Äußere Frühlingstraße 45
94315 Straubing
Germany



Product Service

2 Test Details

2.1 RF Exposure

2.1.1 Specification Reference

FCC 47 CFR Part 1, § 1.1307(b)(3)
RSS-102, Issue 6 (2023-12-15)

2.1.2 Equipment under Test and Modification State

PTD2; S/N: WOPS2412022 (Version with 2.4 GHz Wifi); Modification State 0
PTD2; S/N: WOPS1409017 (Version with 5 GHz Wifi); Modification State 0

2.1.3 Date of Test

2025-10-08

2.1.4 Environmental Conditions

Ambient Temperature	21 °C
Relative Humidity	50 %



2.1.5 Specification Limits

47 CFR, Part 1, § 1.1307(b)(3)

- (i) For single RF sources (i.e. any single fixed RF source, mobile device, or portable device, as defined in paragraph(b)(2) of this section): 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 radiate 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 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by

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

where

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

and

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

d = the test separation distance (cm);

- (C) Or using the table below 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 described for that frequency. For the exemption in the table 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).

RF source frequency (MHz)	Threshold ERP (Watts)
0.3 – 1.34	$1920 R^2$
1.34 – 30	$3450 R^2 / f^2$
30 – 300	$3.83 R^2$
300 – 1500	$0.0128 R^2 f^2$
1500 – 100000	$19.2 R^2$

- (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 2 cm 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 case of fixed RF sources operating in the same time-averaging period, or of multiple or portable RF sources within a device 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:

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



RSS-102, section 6.3

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in the table below:

<i>f</i> (MHz)	<i>Exemption Limits (mW) at separation distance of</i>									
	<i>≤ 5 mm</i>	<i>10 mm</i>	<i>15 mm</i>	<i>20 mm</i>	<i>25 mm</i>	<i>30 mm</i>	<i>35 mm</i>	<i>40 mm</i>	<i>45 mm</i>	<i>≥ 50 mm</i>
<i>≤ 300</i>	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power. For controlled use devices where the 8 W/kg for 1 gram of tissue applies, the exemption limits for route evaluation are multiplied by a factor of 5. For limb-worn devices where the 10 grams value applies, the exemption limits for routine evaluation are multiplied by a factor of 2.5. If the operating frequency of the device is between two frequencies located, linear interpolation shall be applied for the applicable separation distance. For test separation distance less than 5 mm, the exemption limits for a separation distance of 5 mm can be applied to determine if a routine evaluation is required.

For medical implants devices, the exemption limit for routine evaluation is set at 1 mW. The output power of a medical implant device is defined as the higher of the conducted or e.i.r.p. to determine whether the device is exempt from the SAR evaluation.



2.1.6 Test Method

Field strength values for 134.2 kHz at 300 m were taken from test report TR-713384907-01. Original measurements were conducted at 3 m distance; the value for 300 m was calculated through interpolation. Maximum output was calculated through following equation:

$$P = \frac{(E \cdot d)^2}{30 \cdot G}$$

P: Maximum output power (in W)
E: Electric field strength (in V/m)
d: Distance to antenna (in m)
G: Linear antenna gain (= 1)

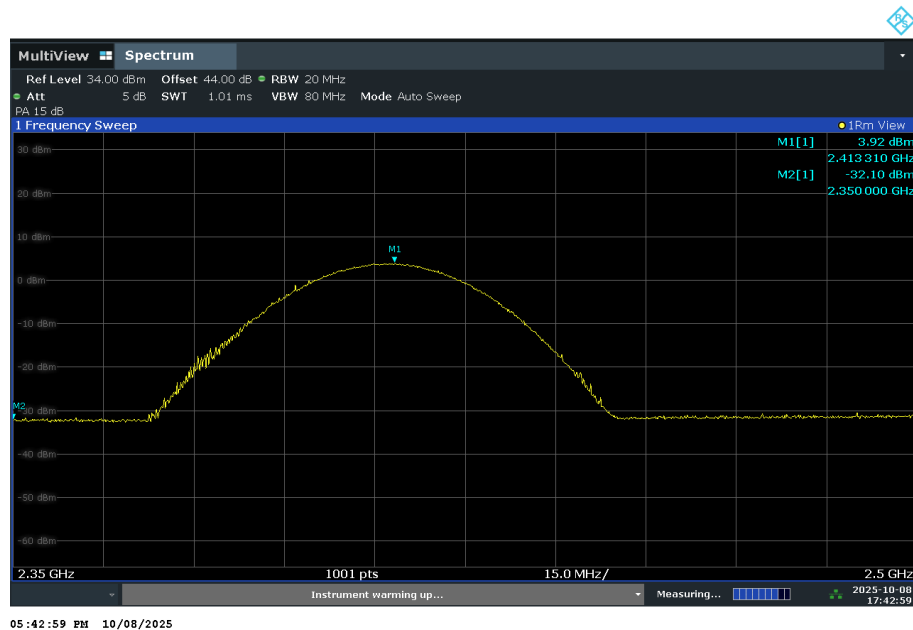
The evaluation distance is 1 cm.



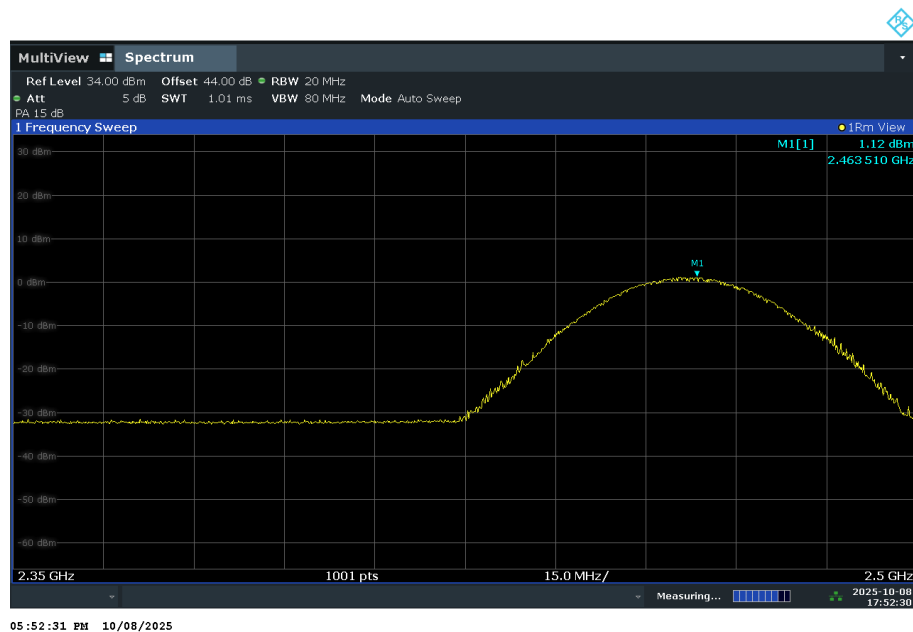
Product Service

2.1.7 Test Results

Output Power of Wifi:



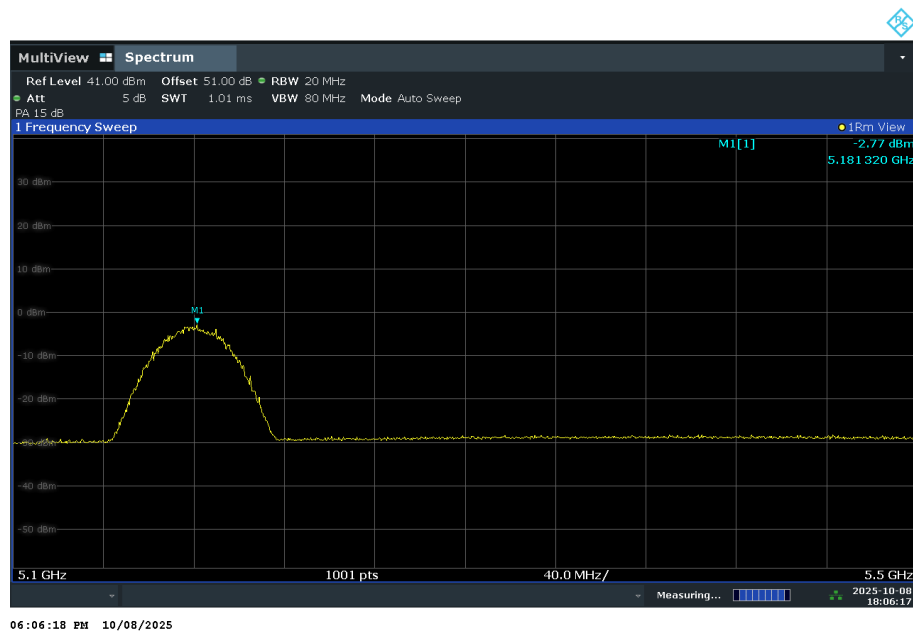
Channel 1



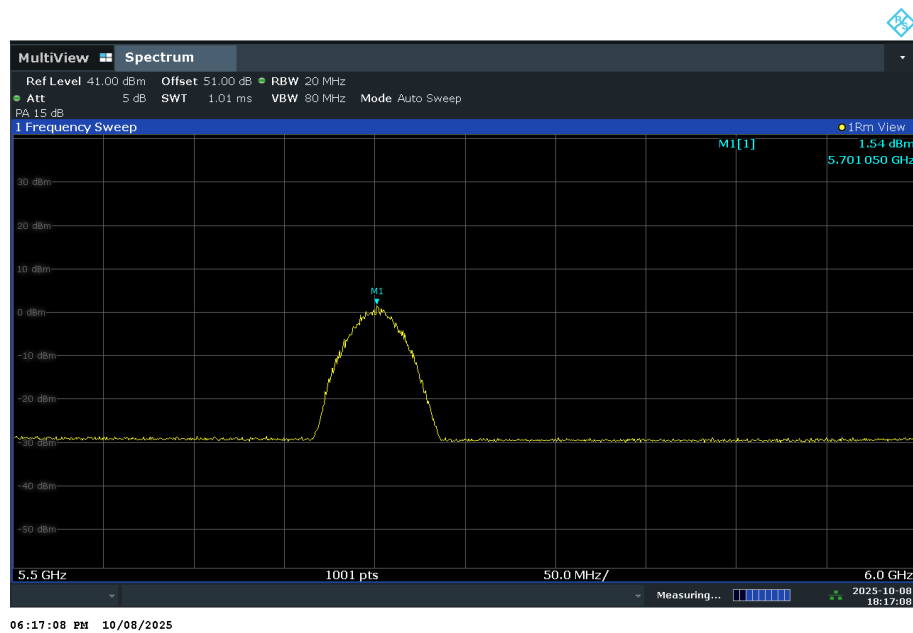
Channel 11



Product Service



Channel 36



Channel 140



47 CFR, Part 1, § 1.1307(b)(3)

Evaluation acc. to § 1.1307(b)(3)(i)(A) and § 1.1307(b)(3)(i)(B).

Test Case 1:

Frequency (MHz)	E-Field (dBμV/m)	Distance (m)	Maximum out-put power (mW)	Exemption limit (mW)	Ratio
0.1342	6.161	300	$1.239 \cdot 10^{-5}$	1.0	$1.239 \cdot 10^{-5}$
2412	---	---	2.47	10.36	0.238

Evaluation of multiple RF sources: $1.239 \cdot 10^{-5} + 0.238 = 0.238 \leq 1$

Test Case 2:

Frequency (MHz)	E-Field (dBμV/m)	Distance (m)	Maximum out-put power (mW)	Exemption limit (mW)	Ratio
0.1342	6.161	300	$1.239 \cdot 10^{-5}$	1.0	$1.239 \cdot 10^{-5}$
2462	---	---	1.24	10.22	0.121

Evaluation of multiple RF sources: $1.239 \cdot 10^{-5} + 0.121 = 0.121 \leq 1$

Test Case 3:

Frequency (MHz)	E-Field (dBμV/m)	Distance (m)	Maximum out-put power (mW)	Exemption limit (mW)	Ratio
0.1342	6.161	300	$1.239 \cdot 10^{-5}$	1.0	$1.239 \cdot 10^{-5}$
5180	---	---	0.528	6.30	0.0838

Evaluation of multiple RF sources: $1.239 \cdot 10^{-5} + 0.0838 = 0.0838 \leq 1$

Test Case 4:

Frequency (MHz)	E-Field (dBμV/m)	Distance (m)	Maximum out-put power (mW)	Exemption limit (mW)	Ratio
0.1342	6.161	300	$1.239 \cdot 10^{-5}$	1.0	$1.239 \cdot 10^{-5}$
5700	---	---	1.43	5.92	0.242

Evaluation of multiple RF sources: $1.239 \cdot 10^{-5} + 0.242 = 0.242 \leq 1$



RSS-102, section 6.3

Test Case 1:

Frequency (MHz)	E-Field (dBμV/m)	Distance (m)	Maximum out-put power (mW)	Exemption limit (mW)	Ratio
0.1342	6.161	300	$1.239 \cdot 10^{-5}$	45.0	$1.068 \cdot 10^{-7}$
2412	---	---	2.47	7.20	0.343

Evaluation of multiple RF sources: $1.068 \cdot 10^{-7} + 0.343 = 0.343 \leq 1$

Test Case 2:

Frequency (MHz)	E-Field (dBμV/m)	Distance (m)	Maximum out-put power (mW)	Exemption limit (mW)	Ratio
0.1342	6.161	300	$1.239 \cdot 10^{-5}$	45.0	$1.068 \cdot 10^{-7}$
2462	---	---	1.24	6.98	0.178

Evaluation of multiple RF sources: $1.068 \cdot 10^{-7} + 0.178 = 0.178 \leq 1$

Test Case 3:

Frequency (MHz)	E-Field (dBμV/m)	Distance (m)	Maximum out-put power (mW)	Exemption limit (mW)	Ratio
0.1342	6.161	300	$1.239 \cdot 10^{-5}$	45.0	$1.068 \cdot 10^{-7}$
5180	---	---	0.528	5.26	0.100

Evaluation of multiple RF sources: $1.068 \cdot 10^{-7} + 0.100 = 0.100 \leq 1$

Test Case 4:

Frequency (MHz)	E-Field (dBμV/m)	Distance (m)	Maximum out-put power (mW)	Exemption limit (mW)	Ratio
0.1342	6.161	300	$1.239 \cdot 10^{-5}$	45.0	$1.068 \cdot 10^{-7}$
5700	---	---	1.43	5.04	0.284

Evaluation of multiple RF sources: $1.068 \cdot 10^{-7} + 0.284 = 0.284 \leq 1$



2.1.8 Test Location and Test Equipment

The test was carried out in fully anechoic room no. 2:

Instrument	Manufacturer	Type No	TE No	Calibra- tion Pe- riod (months)	Calibration Due
Signal and Spectrum Analyser	Rohde & Schwarz	FSW43	53496	12	2026-04-30
Double Ridged Horn Antenna	Rohde & Schwarz	HF907	64145	24	2027-08-31
Fully anechoic room	Albatross	Cabin no. 2	19312	---	---

Table 10



2.2 Nerve Stimulation

2.2.1 Specification Reference

ISED RSS-102, Issue 6, section 7.3
ISED RSS-102.NS.MEAS, Issue 1, section 4.4.4

2.2.2 Equipment under Test and Modification State

PTD2; S/N: WOPS2412022 (Version with 2.4 GHz Wifi); Modification State 0

2.2.3 Date of Test

2025-10-08

2.2.4 Environmental Conditions

Ambient Temperature 21 °C
Relative Humidity 50 %

2.2.5 Specification Limits

Frequency range (MHz)	Reference level basis	Reference level (E _{RL}) for uncontrolled environment (V/m)	Reference level (E _{RL}) for controlled environment (V/m)	Reference period
0.003 – 10	NS	83	170	Instantaneous
1.10 – 10	SAR	87 / $f^{0.5}$	N/A	6 min
1.29 – 10	SAR	N/A	193 / $f^{0.5}$	6 min

Frequency range (MHz)	Reference level basis	Reference level (H _{RL}) for uncontrolled environment (A/m)	Reference level (H _{RL}) for controlled environment (A/m)	Reference period
0.003 – 10	NS	90	180	Instantaneous
0.1 – 10	SAR	0.73 / f	1.6 / f	6 min

Exposure Region	Relaxation Factor	NS-based H-field (A/m RMS)
Head / torso	1.0	90
Leg	1.5	135
Arm	2.5	225
Hand / foot	5.0	450



2.2.6 Test Method

The electric field strength and magnetic flux density were measured at 20 mm moving away from the device in 10 mm steps. All values were used to extrapolate to the 0 mm distance.

The limits for controlled environments were used and relaxation factors of 1.5, 2.5 and 5.0 were applied to the H-field limit.

2.2.7 Test Results

2.2.7.1 NS Test Results

The test results for electric field strength and magnetic field strength. Magnetic field strength was measured as magnetic flux. The highest value on the handle at 20 mm was tested at 20 mm moving away from the device in 10 mm steps. All the values were used to extrapolate to the 0 mm distance.

Distance (mm)	E-Field (V/m)	B-Field (μT)	H-Field (A/m)
20	45.52	52.11	41.47
30	27.56	25.76	20.50
40	16.83	14.06	11.19
50	10.48	8.43	6.71
60	6.66	5.49	4.37
70	4.55	3.68	2.93
80	3.21	2.52	2.00
90	2.31	1.91	1.52
100	1.69	1.43	1.13
110	1.26	1.10	0.87
120	1.00	0.86	0.69
130	0.83	0.69	0.55
140	0.67	0.55	0.44
150	0.59	0.46	0.36



Exponential extrapolation

The equation used to extrapolate the value to zero is $y = a \cdot b^x$, where x is the distance and y is the extrapolated value. This form is exponential regression decay.

	<u>Electric field strength</u>	<u>Magnetic field strength</u>
The extrapolated value at 0 mm:	59.64 V/m	44.91 A/m
The extrapolated value at 10 mm:	42.66 V/m	31.72 A/m
<u>Regression Statistics</u>		
Multiple r:	0.986153	0.980978
r^2	0.972498	0.962317
Adjusted r^2	0.970206	0.959177
Standard error s	0.245262	0.299536

Quadratic extrapolation

The equation used to extrapolate the value to zero is $y = a_2 x^2 + a_1 x + a_0$, where x is the distance and y is the extrapolated value. This form is quadratic (2nd order) regression decay.

	<u>Electric field strength</u>	<u>Magnetic field strength</u>
The extrapolated value at 0 mm:	56.08	47.58
The extrapolated value at 10 mm:	46.10	38.80
<u>Regression Statistics</u>		
Multiple r:	0.955261	0.920034
r^2	0.912524	0.846463
Adjusted r^2	0.896619	0.818547
Standard error s	4.209910	4.880090

Cubic extrapolation

The equation used to extrapolate the value to zero is $y = a_3 x^3 + a_2 x^2 + a_1 x + a_0$, where x is the distance and y is the extrapolated value. This form is cubic (3rd order) regression decay.

	<u>Electric field strength</u>	<u>Magnetic field strength</u>
The extrapolated value at 0 mm:	81.31	74.92
The extrapolated value at 10 mm:	60.12	53.98
<u>Regression Statistics</u>		
Multiple r:	0.993328	0.979864
r^2	0.986701	0.960133
Adjusted r^2	0.982712	0.948174
Standard error s	2.608084	2.608084

Quartic extrapolation

The equation used to extrapolate the value to zero is $y = a_4 x^4 + a_3 x^3 + a_2 x^2 + a_1 x + a_0$, where x is the distance and y is the extrapolated value. This form is quartic (4th order) regression decay.

	<u>Electric field strength</u>	<u>Magnetic field strength</u>
The extrapolated value at 0 mm:	101.43	103.33
The extrapolated value at 10 mm:	68.75	66.16
<u>Regression Statistics</u>		
Multiple r:	0.999414	0.995849
r^2	0.998829	0.991716
Adjusted r^2	0.998308	0.988034
Standard error s	0.538575	1.253221



5th order extrapolation

The equation used to extrapolate the value to zero is $y = a_5 x^5 + a_4 x^4 + a_3 x^3 + a_2 x^2 + a_1 x + a_0$, where x is the distance and y is the extrapolated value. This form is 5th order regression decay.

	<u>Electric field strength</u>	<u>Magnetic field strength</u>
The extrapolated value at 0 mm:	114.11	130.78
The extrapolated value at 10 mm:	72.97	75.31

Regression Statistics

Multiple r:	0.999979	0.999314
r^2	0.999957	0.998628
Adjusted r^2	0.999930	0.997771
Standard error s	0.109290	0.540903

6th order extrapolation

The equation used to extrapolate the value to zero is $y = a_6 x^6 + a_5 x^5 + a_4 x^4 + a_3 x^3 + a_2 x^2 + a_1 x + a_0$, where x is the distance and y is the extrapolated value. This form is 6th order regression decay.

	<u>Electric field strength</u>	<u>Magnetic field strength</u>
The extrapolated value at 0 mm:	119.16	155.81
The extrapolated value at 10 mm:	74.30	81.90

Regression Statistics

Multiple r:	0.999997	0.999920
r^2	0.999995	0.999841
Adjusted r^2	0.999991	0.999704
Standard error s	0.040295	0.197073

7th order extrapolation

The equation used to extrapolate the value to zero is $y = a_7 x^7 + a_6 x^6 + a_5 x^5 + a_4 x^4 + a_3 x^3 + a_2 x^2 + a_1 x + a_0$, where x is the distance and y is the extrapolated value. This form is 7th order regression decay.

	<u>Electric field strength</u>	<u>Magnetic field strength</u>
The extrapolated value at 0 mm:	120.22	176.20
The extrapolated value at 10 mm:	74.53	93.30

Regression Statistics

Multiple r:	0.999998	0.999995
r^2	0.999995	0.999991
Adjusted r^2 ($\bar{r}^2$)	0.999990	0.999979
Standard error s	0.042172	0.051934

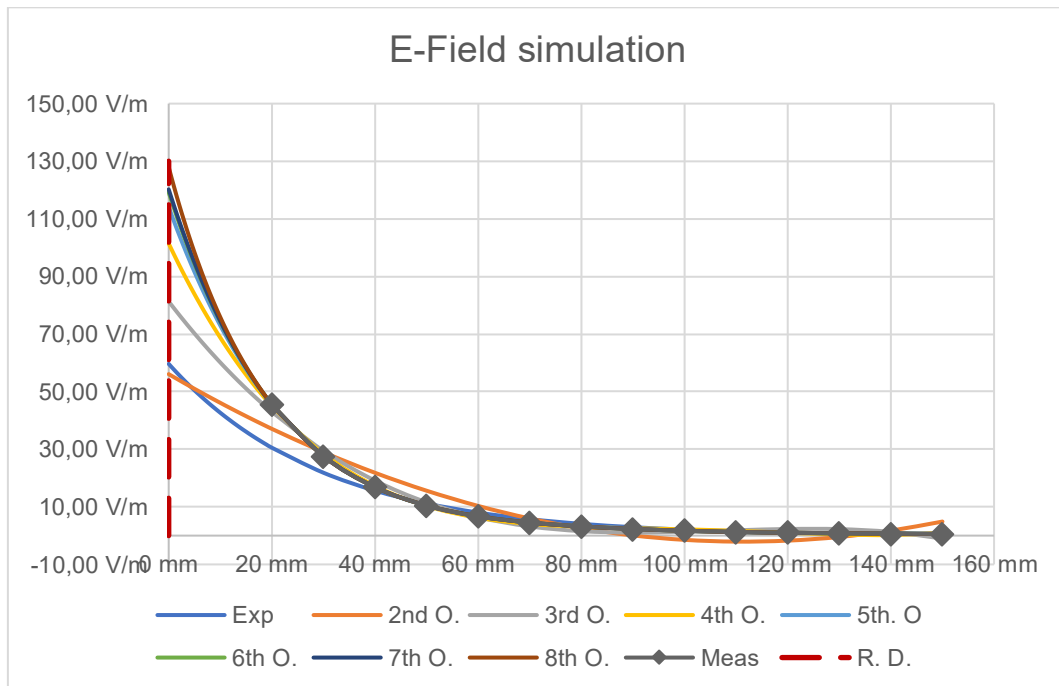
8th order extrapolation

The equation used to extrapolate the value to zero is $y = a_8 x^8 + a_7 x^7 + a_6 x^6 + a_5 x^5 + a_4 x^4 + a_3 x^3 + a_2 x^2 + a_1 x + a_0$, where x is the distance and y is the extrapolated value. This form is 8th order regression decay.

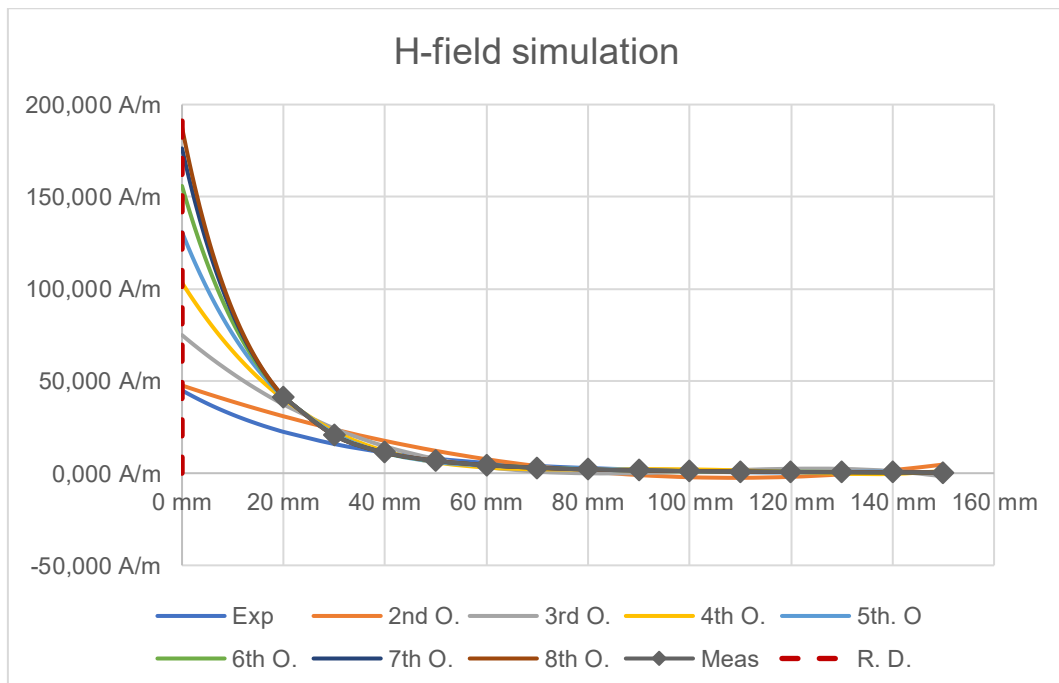
	<u>Electric field strength</u>	<u>Magnetic field strength</u>
The extrapolated value at 0 mm:	127.93	187.58
The extrapolated value at 10 mm:	75.85	88.17

Regression Statistics

Multiple r:	0.999999	0.999999
r^2	0.999998	0.999998
Adjusted r^2	0.999994	0.999995
Standard error s	0.031038	0.026186



E-Field extrapolation to direct contact (at 0 mm), based on different interpolations



H-Field extrapolation to direct contact (at 0 mm), based on different interpolations



Comparison of the Interpolations

Interpolation result for direct hand contact (0 mm):

	E-Field (V/m)	H-Field (A/m)
Exponential	59.64	44.91
2nd O. Poly	56.08	47.58
3rd O. Poly	81.31	74.92
4th O. Poly	101.43	103.33
5th O. Poly	114.11	130.78
6th O. Poly	119.16	155.81
7th O. Poly	120.22	176.20
8th O. Poly	127.93	187.58

Frequency	E-Field Measurement (V/m)	Limit (V/m)	E-Field / Limit (%)	Verdict
134.2 kHz	127.93	170	75.25	Pass

Frequency	H-Field Measurement (A/m)	Relaxation Factor	Limit (A/m)	H-Field / Limit (%)	Verdict
134.2 kHz	187.58	1.5	270	69.47	Pass
134.2 kHz	187.58	2.5	450	41.68	Pass
134.2 kHz	187.58	5.0	900	20.84	Pass



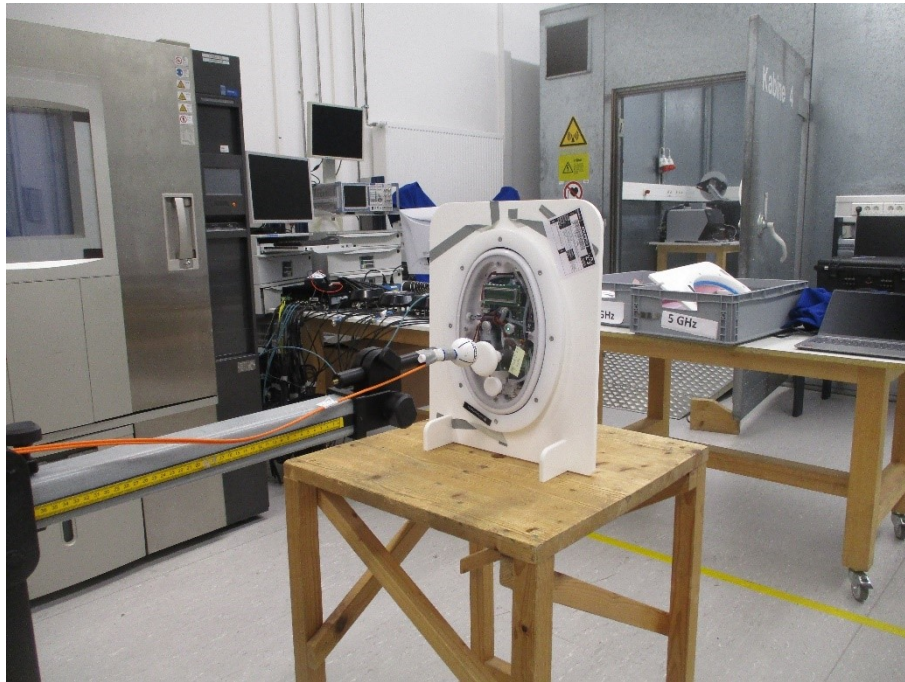
2.2.8 Test Location and Test Equipment

The test was carried out in a non-shielded room:

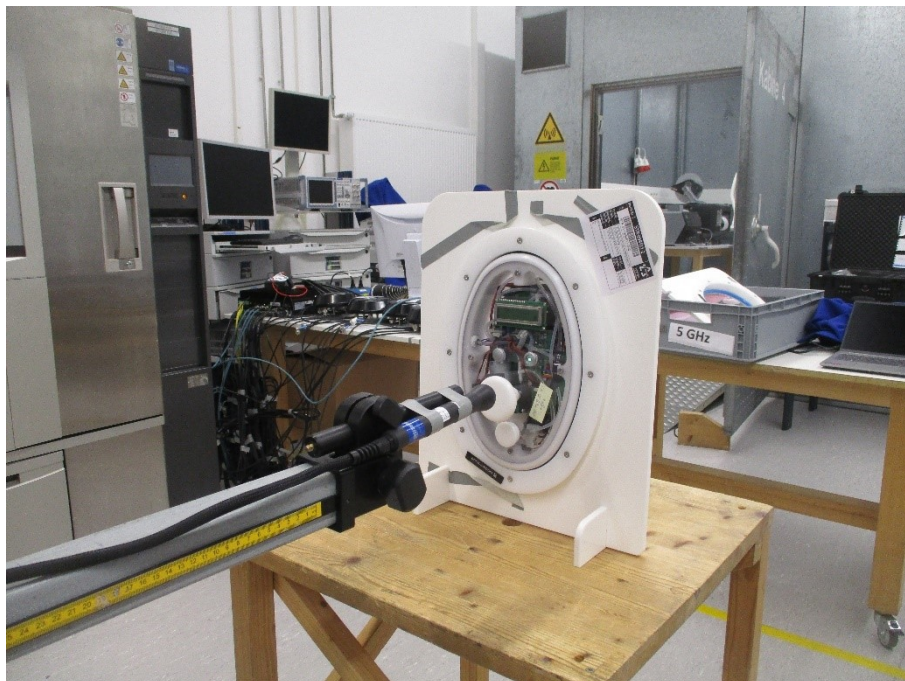
Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Magnetic field analyzer	Sekels	MFA-110	68030	12	2025-05-27
Isotropic magnetic field probe 3.5 cm ²	Sekels	B-Field Probe 3.5 cm ²	68027	12	2025-05-27
Isotropic field probe	Lumiloop	Lumiloop LSProbe 1.2	38405	24	2027-02-28

Table 10

3 Photos of Test Setup



NS measurement for electric field strength



NS measurement for magnetic flux density



4 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

<i>Radio Interference Emission Testing</i>		
<i>Test Name</i>	<i>kp</i>	<i>Expanded Uncertainty</i>
Conducted Voltage Emission		
9 kHz to 150 kHz (50Ω/50μH AMN)	2	± 3.8 dB
150 kHz to 30 MHz (50Ω/50μH AMN)	2	± 3.4 dB
100 kHz to 200 MHz (50Ω/5μH AMN)	2	± 3.6 dB
Discontinuous Conducted Emission		
9 kHz to 150 kHz (50Ω/50μH AMN)	2	± 3.8 dB
150 kHz to 30 MHz (50Ω/50μH AMN)	2	± 3.4 dB
Conducted Current Emission		
9 kHz to 200 MHz	2	± 3.5 dB
Magnetic Fieldstrength		
9 kHz to 30 MHz (with loop antenna)	2	± 3.9 dB
9 kHz to 30 MHz (large-loop antenna 2 m)	2	± 3.5 dB
Radiated Emission		
30 MHz to 300 MHz	2	± 4.9 dB
300 MHz to 1 GHz	2	± 5.0 dB
1 GHz to 6 GHz	2	± 4.6 dB
Test distance 10 m		
30 MHz to 300 MHz	2	± 4.9 dB
300 MHz to 1 GHz	2	± 4.9 dB
The expanded uncertainty reported according to CISPR16-4-2: 2011 + A1 + A2 + Cor1 is based on a standard uncertainty multiplied by a coverage factor of $k_p = 2$, providing a level of confidence of $p = 95.45\%$		

Table 5 Measurement uncertainty based on CISPR 16-4-2



<i>Radio Interference Emission Testing</i>		
<i>Test Name</i>	<i>kp</i>	<i>Expanded Uncertainty</i>
Occupied Bandwidth	2	± 5 %
Conducted Power		
9 kHz ≤ f < 30 MHz	2	± 1.0 dB
30 MHz ≤ f < 1 GHz	2	± 1.5 dB
1 GHz ≤ f ≤ 40 GHz	2	± 2.5 dB
1 MS/s power sensor (TS8997)	2	± 1.5 dB
Occupied Bandwidth	2	± 5 %
Power Spectral Density	2	± 3.0 dB
Radiated Power		
25 MHz – 6 GHz	1.96	±4.4 dB
1 GHz – 18 GHz	1.96	±4.7 dB
18 GHz – 40 GHz	1.96	±4.9 dB
40 GHz – 325 GHz	1.96	±6.1 dB
Conducted Spurious Emissions	2	± 3.0 dB
Radiated Spurious Emissions	2	± 6.0 dB
Voltage		
DC	2	± 1.0 %
AC	2	± 2.0 %
Time (automatic)	2	± 5 %
Frequency	2	± 10 ⁻⁷
The expanded uncertainty reported according to ETSI TR 100 028:2001 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%		

Table 6 Measurement uncertainty based on ETSI TR 100 028

The measurement uncertainty in the laboratory is less than or equal to the maximum measurement uncertainty according to CISPR16-4-2: 2011 + A1 + A2 + Cor1 (U_{CISPR}) and as specified in the test report below. This normative regulation means that the measured value is also the value to be assessed in relation to the limit value.



Test Name	Expanded Uncertainty
Occupied Bandwidth	±5 %
Conducted Power	
9 kHz ≤ f < 30 MHz	±1.0 dB
30 MHz ≤ f < 1 GHz	±1.5 dB
1 GHz ≤ f ≤ 40 GHz	±2.5 dB
1 MS/s power sensor (2.4 / 5 GHz band)	±1.5 dB
Power Spectral Density	±3.0 dB
Radiated Power	
25 MHz – 26.5 GHz	±6.0 dB
26.5 GHz – 66 GHz	±8.0 dB
40 GHz – 325 GHz	±10.0 dB
Conducted Spurious Emissions	±3.0 dB
Radiated Field Strength 9 kHz – 40 GHz	±6.0 dB
Voltage	
DC	± 1.0 %
AC	± 2.0 %
Time (automatic)	± 5 %
Frequency	± 10 ⁻⁷

Table 7 Decision Rule: Maximum allowed measurement uncertainty

END OF TEST REPORT