

## RF EXPOSURE REPORT

OF

**Applicant:** Huawei Technologies Co., Ltd.  
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

**Product Name:** Smart Phone

**Brand Name:** HUAWEI

**Model No.:** VOG-L04

**Model Difference:** N/A

**Report Number:** E2/2019/10031-01

**FCC ID:** QISVOG-L04

**FCC Rule Part:** Part 2.1091

**Issue Date:** Jan. 28, 2019

**Date of Test:** Jan. 16, 2019 ~ Jan 28, 2019

**Date of EUT Received:** Dec. 28, 2018

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation in this report is in compliance with FCC Rules Part 2.

The test results of this report relate only to the tested sample identified in this report.

*Marcus Tseng***Tested By:****Marcus Tseng / Sr. Engineer***John Teh***Approved By:****Yeh John / Asst. Manager**

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t (886-2) 2299-3279

f (886-2) 2298-0488

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## Revision History

| Report Number    | Revision | Description                             | Effected Page | Issue Date    | Revised By  |
|------------------|----------|-----------------------------------------|---------------|---------------|-------------|
| E2/2019/10031    | Rev.00   | Initial creation of document            | All           | Jan. 25, 2019 | Karen Huang |
| E2/2019/10031-01 | Rev.01   | Update measurement data and information | Page 3, 6~23  | Jan. 28, 2019 | Karen Huang |

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## 1 GENERAL INFORMATION

### 1.1 Product Description

General:

|                     |                       |                                                                                                                                                                                       |
|---------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:       | Smart Phone           |                                                                                                                                                                                       |
| Brand Name:         | HUAWEI                |                                                                                                                                                                                       |
| Model No.:          | VOG-L04               |                                                                                                                                                                                       |
| Model Difference:   | N/A                   |                                                                                                                                                                                       |
| Hardware Version:   | HL2VOGUEM             |                                                                                                                                                                                       |
| Software Version:   | 9.1.0.42(C792E10R1P4) |                                                                                                                                                                                       |
| Input Rated Voltage | 3.82V                 |                                                                                                                                                                                       |
|                     | Battery:              | 1. Model No.: HB486486ECW, SN: 6DUNACI724G00064<br>Supplier: HuaweiTechnologies Co., Ltd<br>2. Model No.: HB486486ECW, SN: 5WNDAYI726 X00085<br>Supplier: HuaweiTechnologies Co., Ltd |

Wireless Charging:

|                     |               |
|---------------------|---------------|
| Operating Frequency | 110kHz-148kHz |
|---------------------|---------------|

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## 1 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 1.1 Standard Applicable

According to KDB 680106 D01 RF Exposure Wireless Charging App v03

RF exposure potential to users and bystanders is expected to vary according to factors inherent to the design of individual systems, which generally requires different evaluation considerations to show compliance.

When exposure concerns arise; for example, due to evolving products and operations, RF exposure evaluation may be requested under the provisions of Sections 1.1307 (c) and (d) to determine compliance. Because of significant variations in design and operating characteristics, the procedures required to evaluate RF exposure compliance for wireless power transfer are considered according to the exposure potentials of individual implementations

The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Sections 2.1091 and 2.1093 of the rules. SAR and MPE limits do not cover the frequency range for wireless power transfer applications which operate below 100 kHz and 300 kHz respectively; therefore, RF exposure compliance needs to be determined with respect to Sections 1.1307 (c) and (d) of the FCC rules.

### 1.2 Limits for Maximum Permissible Exposure (MPE)

Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency range (MHz)                                          | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposure</b>         |                               |                               |                                     |                          |
| 0.3-3.0                                                        | 614                           | 1.63                          | *100                                | 6                        |
| 3.0-30                                                         | 1842/f                        | 4.89/f                        | *900/f <sup>2</sup>                 | 6                        |
| 30-300                                                         | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1,500                                                      |                               |                               | f/300                               | 6                        |
| 1,500-100,000                                                  |                               |                               | 5                                   | 6                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 0.3-1.34                                                       | 614                           | 1.63                          | *100                                | 30                       |
| 1.34-30                                                        | 824/f                         | 2.19/f                        | *180/f <sup>2</sup>                 | 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

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**1.3 The Worst Charging Condition:**

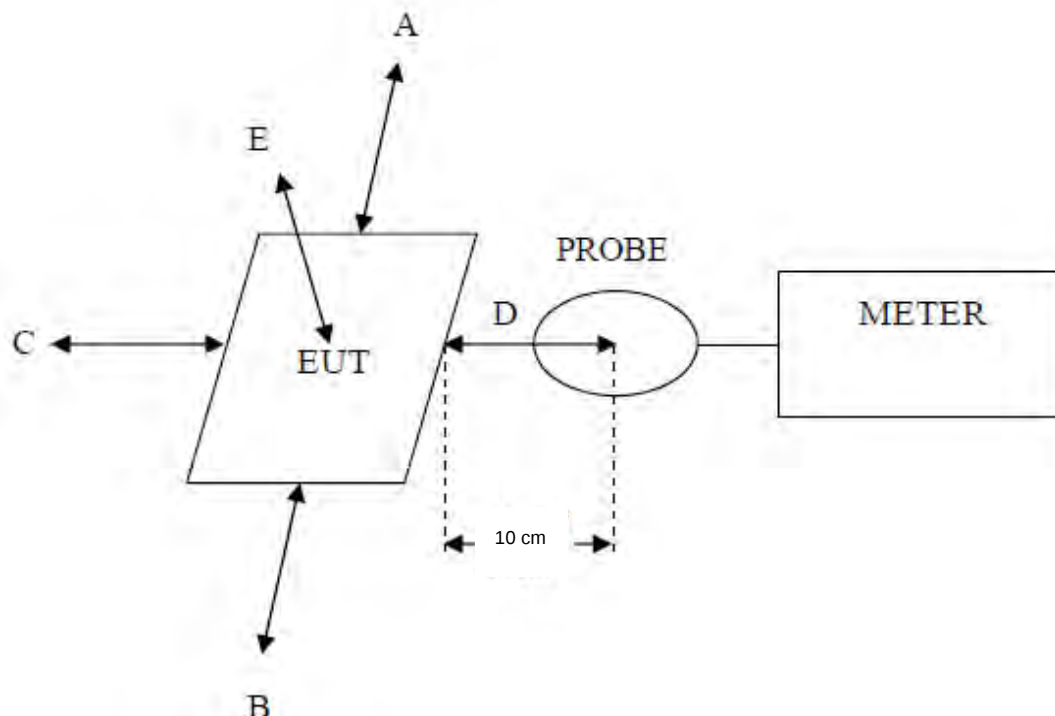
| Ancillary Equipment                                                                                                                                                           | Charging Condition | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|
| Load                                                                                                                                                                          | 90% Loading        | PASS    |
| Load                                                                                                                                                                          | 50% Loading        | PASS    |
| Load                                                                                                                                                                          | 10% Loading        | PASS    |
| Note: For Wireless Power Consortium Qi specification, a lower operating frequency or high duty cycle result in the transfer of a higher amount of power and charging current. |                    |         |

**1.4 Measurement Procedure:**

The electric and magnetic field strength result at 10 cm from the top surface and all applicable edges surrounding the DUT while it is actively charging conditions at 10% 50% and 90% are included.

**1.5 Measurement Equipment Used:**

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
|----------------|-----|--------------|---------------|------------|------------|
| E-field probe  | W&G | EF-0691      | G-0061        | 02/22/2018 | 02/21/2019 |

**1.6 Test Set-up:**

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**1.7 Maximum Permissible Exposure (MPE) Evaluation:**

(For Battery SN: 6DUNACI724G00064)

**90% Loading**

| Maximum Permissible Exposure |               |               |               |
|------------------------------|---------------|---------------|---------------|
| Probe from EUT Side          | Test Distance | E-field (V/m) | H-field (A/m) |
| Front                        | 10 cm         | 1.41          | 0.035         |
| Back                         | 10 cm         | 1.43          | 0.034         |
| Left                         | 10 cm         | 1.5           | 0.038         |
| Right                        | 10 cm         | 1.53          | 0.045         |
| Top                          | 10 cm         | 1.28          | 0.043         |
| Bottom                       | 10 cm         | 1.57          | 0.043         |
| Limit                        |               | 614           | 1.63          |

**50% Loading**

| Maximum Permissible Exposure |               |               |               |
|------------------------------|---------------|---------------|---------------|
| Probe from EUT Side          | Test Distance | E-field (V/m) | H-field (A/m) |
| Front                        | 10 cm         | 1.34          | 0.031         |
| Back                         | 10 cm         | 1.48          | 0.034         |
| Left                         | 10 cm         | 1.3           | 0.038         |
| Right                        | 10 cm         | 1.75          | 0.046         |
| Top                          | 10 cm         | 1.48          | 0.039         |
| Bottom                       | 10 cm         | 1.63          | 0.038         |
| Limit                        |               | 614           | 1.63          |

**10% Loading**

| Maximum Permissible Exposure |               |               |               |
|------------------------------|---------------|---------------|---------------|
| Probe from EUT Side          | Test Distance | E-field (V/m) | H-field (A/m) |
| Front                        | 10 cm         | 1.38          | 0.036         |
| Back                         | 10 cm         | 1.46          | 0.035         |
| Left                         | 10 cm         | 1.4           | 0.037         |
| Right                        | 10 cm         | 1.62          | 0.043         |
| Top                          | 10 cm         | 1.37          | 0.042         |
| Bottom                       | 10 cm         | 1.59          | 0.042         |
| Limit                        |               | 614           | 1.63          |

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**Spot check data:**

(For Battery SN: 5WNDAYI726 X00085)

## 90% Loading

| Maximum Permissible Exposure |               |               |               |
|------------------------------|---------------|---------------|---------------|
| Probe from EUT Side          | Test Distance | E-field (V/m) | H-field (A/m) |
| Front                        | 10 cm         | 0.46          | 0.011         |
| Back                         | 10 cm         | 0.59          | 0.011         |
| Left                         | 10 cm         | 0.66          | 0.015         |
| Right                        | 10 cm         | 0.69          | 0.022         |
| Top                          | 10 cm         | 0.44          | 0.020         |
| Bottom                       | 10 cm         | 0.73          | 0.020         |
| Limit                        |               | 614           | 1.63          |

## 50% Loading

| Maximum Permissible Exposure |               |               |               |
|------------------------------|---------------|---------------|---------------|
| Probe from EUT Side          | Test Distance | E-field (V/m) | H-field (A/m) |
| Front                        | 10 cm         | 0.47          | 0.009         |
| Back                         | 10 cm         | 0.64          | 0.011         |
| Left                         | 10 cm         | 0.46          | 0.015         |
| Right                        | 10 cm         | 0.91          | 0.023         |
| Top                          | 10 cm         | 0.64          | 0.016         |
| Bottom                       | 10 cm         | 0.79          | 0.015         |
| Limit                        |               | 614           | 1.63          |

## 10% Loading

| Maximum Permissible Exposure |               |               |               |
|------------------------------|---------------|---------------|---------------|
| Probe from EUT Side          | Test Distance | E-field (V/m) | H-field (A/m) |
| Front                        | 10 cm         | 0.52          | 0.014         |
| Back                         | 10 cm         | 0.62          | 0.012         |
| Left                         | 10 cm         | 0.56          | 0.014         |
| Right                        | 10 cm         | 0.78          | 0.020         |
| Top                          | 10 cm         | 0.53          | 0.019         |
| Bottom                       | 10 cm         | 0.75          | 0.019         |
| Limit                        |               | 614           | 1.63          |

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## APPENDIX A. CERTIFICATE OF CALIBRATION

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3447 GX Woerden  
The NetherlandsTel. +31 348 431 807  
Fax +31 348 430 645  
www.dare.nl  
calibrations@dare.nl

## CERTIFICATE OF CALIBRATION

For: SGS Taiwan Limited

On behalf of: EMC Instruments corporation  
1F, No.8, Lane38 WenSan 3rd street  
Kwei-Shan Hsiang Taoyuan HsienInstrument: E-field probe  
manufacturer: Narda / Wandel & Goltermann  
type: EF-0691 + NBM-550  
serial number: G-0061 + F-0375  
asset number: 150000331

Calibration method: The calibration is carried out according to IEC 61000-4-3 (2006-02) + A1 (2007-11) + A2 (2010-03).

The instrument was allowed to acclimatize for at least 2 hours before any measurements were made.

During calibration, all axis of the field probe are switched on as in the normal isotropic mode of operation of the probe.

Up to 150 MHz, the calibration is performed in a TEM cell. The calculated field method is used for the calibration.

The calibration of frequencies from 200 MHz is carried out in a full anechoic room. Over the frequency range of 200 MHz to 1000 MHz, the standard transfer method is used. For frequencies from 1200 MHz, the calculated field method is used.

The polarization of the E-field is vertical. For each frequency and field strength setting, the field probe is rotated so that each position is aligned with the E-field. The position under test is always perpendicular to the direction of propagation and parallel to the E-field.

Page 13 and 14 describes the orientation of the DUT during calibration.

$$\text{Correction Factor} = \frac{\text{Applied field strength}}{\text{Measured field strength}}$$

Position 1: probe horizontal, perpendicular to the field, display horizontal (up). Probe head aligned with center of the antenna, probe box to the right.

Position 2: probe horizontal, perpendicular to the field, display aligned vertical, to the front facing the antenna. Probe head aligned with center of the antenna, probe box to the right.

Position 3: probe horizontal, perpendicular to the field, display horizontal (down). Probe head aligned with center of the antenna, probe box to the right.

Certificate number 201800190.00

The Road voor Accreditatie is one of the signatories of the Multilateral Agreement of the European Co-operation for Accreditation (EA) for the mutual recognition of calibration certificates.

Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced with written approval of the calibration laboratory.

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The linearity is compared to the limits given by the IEC 61000-4-3 standard as mentioned at page 15.

**Ambient conditions:** The calibration was carried out in a screened room, at an ambient temperature of  $(23 \pm 2)^{\circ}\text{C}$  and a relative humidity of  $(50 \pm 10)\%$ .

**Period of calibration:** 2018 February, 20 to 2018 February, 22.

**Due date:** 2019 February, 22

**Results:** The results are listed on page 3 to 11.  
The results of comparisons with specifications are shown in the column 'Remarks'.  
Reported statements comply with ILAC-G8 (2009-03): 'Guidelines on the Reporting of Compliance with Specification'. The following remarks can be reported:

- (a) Case 1 - 'Pass' or no remark if:  
The measurement result is within (or below) the specification limit when the measurement uncertainty is taken into account.
- (b) Case 4 - 'Out of specs.' if:  
The measurement result is outside (or above) the specification limit when the measurement uncertainty is taken into account.
- (c) Case 2 & 3 - 'Border value' if:  
It is not possible to state compliance using a 95% coverage probability for the expanded uncertainty.



No adjustments have been made to the instrument.  
The measured values were calculated from a single sample.

**Uncertainty:** The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k = 2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA publication EA-4/02.

Certificate number 201800190.00

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EORI-number: NL805613468  
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The uncertainties refer to the measured values only with no account being taken of the ability of the instruments under test to maintain their calibration.

**Traceability:** The measurements have been executed using standards for which the traceability to (inter)national standards has been demonstrated towards the RvA.

### Equipment list 9 kHz – 200 MHz:

| Description                 | Identification | Certificate number    | Last calibration date |
|-----------------------------|----------------|-----------------------|-----------------------|
| Signal Generator            | ID 7431        | RvA K063/201800341.00 | January 16, 2018      |
| Power meter                 | ID 1247        | RvA K063/201605321.00 | November 29, 2016     |
| Power head                  | ID 1248        | RvA K063/201605321.00 | November 29, 2016     |
| RF Amplifier                | ID 7304        | -/No cal required     | -                     |
| Coupler                     | ID 7432        | RvA K063/201800384.00 | February 7, 2018      |
| TEM cell                    | ID 1073        | -/No cal required     | -                     |
| Attenuator 30dB             | ID 1313        | RvA K063/201800016.00 | January 11, 2018      |
| Termination 50 ohms, N-type | ID 1545        | /No cal required      | -                     |
| Radicalcentre, Siemens      | ID 7407        | -/No cal required     | -                     |

### Equipment list 200 MHz – 40 GHz

| Description                         | Identification | Certificate number    | Last calibration date |
|-------------------------------------|----------------|-----------------------|-----------------------|
| Signal Generator                    | ID 7430        | RvA K063/201800340.00 | January 17, 2018      |
| Signal Generator                    | ID 7340        | RvA K063/201700904.00 | March 8, 2017         |
| RF Amplifier                        | ID 1334        | -/No cal required     | -                     |
| RF Amplifier                        | ID 1163        | -/No cal required     | -                     |
| RF Amplifier                        | ID 1164        | -/No cal required     | -                     |
| RF Amplifier                        | ID 1347        | -/No cal required     | -                     |
| Power head                          | ID 7406        | RvA K063/201700916.00 | March 13, 2017        |
| Attenuator 20dB                     | ID 7462        | RvA K063/201800018.00 | January 11, 2018      |
| Coupler                             | ID 1005        | RvA K063/201703746.00 | August 30, 2017       |
| Coupler                             | ID 7446        | RvA K063/201706907.00 | November 21, 2017     |
| Antenna Log periodic 200 – 1000 MHz | ID 1387        | -/No cal required     | -                     |
| Antenna Horn 1.12 – 1.70 GHz        | ID 7395        | -/No cal required     | -                     |
| Antenna Horn 1.70 – 2.60 GHz        | ID 7499        | -/No cal required     | -                     |
| Antenna Horn 2.60 – 3.95 GHz        | ID 7498        | -/No cal required     | -                     |
| Antenna Horn 3.95 – 5.85 GHz        | ID 7447        | -/No cal required     | -                     |
| Antenna Horn 5.85 – 8.20 GHz        | ID 7448        | -/No cal required     | -                     |
| Antenna Horn 8.20 – 12.40 GHz       | ID 7449        | -/No cal required     | -                     |
| Antenna Horn 12.4                   | ID 7450        | -/No cal required     | -                     |

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Kijk Utrecht 30138675  
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| Description       | Identification | Certificate number | Last calibration date |
|-------------------|----------------|--------------------|-----------------------|
| - 18.0 GHz        |                |                    |                       |
| Antenna Horn 18.0 | ID 7477        | -No cal required   | -                     |
| - 26.5 GHz        |                |                    |                       |
| Antenna Horn 26.5 | ID 7478        | -No cal required   | -                     |
| - 40.0 GHz        |                |                    |                       |
| Field sensor      | ID 7457        | NPL/2017090186-2   | October 2017          |
| Field sensor      | ID 7273        | NPL/2017090186-1   | October 2017          |
| Anechoic Room     | ID 7092        | -No cal required   | -                     |

Date

Calibrated by

Checked by

2018 February, 22

  
J. Rodriguez  
Calibration Engineer  
D. van der Vlugt  
Team leader

Certificate number 201800190.00

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Fax: +31 348 430 645  
www.dare.nl  
calibrations@dare.nl**E-field Probe linearity (Position 1)**  
Frequency: 50 MHz  
Range: range less

| APPLIED<br>FIELD<br>[V/m] | MEASURED<br>FIELD<br>[V/m] | LINEARITY ±<br>UNCERTAINTY | REMARKS<br>DUE TO<br>SPECIFICATIONS | CORRECTION<br>FACTOR |
|---------------------------|----------------------------|----------------------------|-------------------------------------|----------------------|
| 2.99                      | 2.60                       | (0.0 ± 1.2) dB             | Border value                        | 1.15                 |
| 3.34                      | 2.92                       | (0.0 ± 1.1) dB             | Border value                        | 1.15                 |
| 3.75                      | 3.27                       | (0.0 ± 1.1) dB             | Border value                        | 1.15                 |
| 4.23                      | 3.69                       | (0.0 ± 1.0) dB             | Border value                        | 1.15                 |
| 4.76                      | 4.15                       | (0.0 ± 0.9) dB             | Border value                        | 1.15                 |
| 5.30                      | 4.61                       | (0.0 ± 0.9) dB             | Border value                        | 1.15                 |
| 6.00                      | 5.22                       | 0 dB (Reference)           |                                     | 1.15                 |
| 6.73                      | 5.85                       | (0.0 ± 0.8) dB             | Border value                        | 1.15                 |
| 7.55                      | 6.56                       | (0.0 ± 0.8) dB             | Border value                        | 1.15                 |
| 8.45                      | 7.34                       | (0.0 ± 0.7) dB             | Border value                        | 1.15                 |
| 9.51                      | 8.27                       | (0.0 ± 0.7) dB             | Border value                        | 1.15                 |
| 10.67                     | 9.26                       | (0.0 ± 0.7) dB             | Border value                        | 1.15                 |
| 11.97                     | 10.40                      | (0.0 ± 0.7) dB             | Border value                        | 1.15                 |

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| E-field Probe linearity (Position 2) |                            |                            |                                     |                      |
|--------------------------------------|----------------------------|----------------------------|-------------------------------------|----------------------|
| Frequency: 50 MHz                    |                            |                            |                                     |                      |
| Range: range less                    |                            |                            |                                     |                      |
| APPLIED<br>FIELD<br>[V/m]            | MEASURED<br>FIELD<br>[V/m] | LINEARITY ±<br>UNCERTAINTY | REMARKS<br>DUE TO<br>SPECIFICATIONS | CORRECTION<br>FACTOR |
| 2.99                                 | 2.74                       | (0.0 ± 1.2) dB             | Border value                        | 1.09                 |
| 3.35                                 | 3.07                       | (0.0 ± 1.1) dB             | Border value                        | 1.09                 |
| 3.76                                 | 3.44                       | (0.0 ± 1.0) dB             | Border value                        | 1.09                 |
| 4.22                                 | 3.85                       | (0.0 ± 0.9) dB             | Border value                        | 1.10                 |
| 4.73                                 | 4.33                       | (0.0 ± 0.9) dB             | Border value                        | 1.09                 |
| 5.32                                 | 4.85                       | (0.0 ± 0.8) dB             | Border value                        | 1.10                 |
| 5.95                                 | 5.43                       | 0 dB (Reference)           |                                     | 1.10                 |
| 6.67                                 | 6.09                       | (0.0 ± 0.8) dB             | Border value                        | 1.09                 |
| 7.49                                 | 6.83                       | (0.0 ± 0.7) dB             | Border value                        | 1.10                 |
| 8.38                                 | 7.66                       | (0.0 ± 0.7) dB             | Border value                        | 1.09                 |
| 9.42                                 | 8.60                       | (0.0 ± 0.7) dB             | Border value                        | 1.10                 |
| 10.58                                | 9.65                       | (0.0 ± 0.7) dB             | Border value                        | 1.10                 |
| 11.87                                | 10.82                      | (0.0 ± 0.7) dB             | Border value                        | 1.10                 |

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www.dare.nl  
calibrations@dare.nl**E-field Probe linearity (Position 3)**  
Frequency: 50 MHz  
Range: range less

| APPLIED<br>FIELD<br>[V/m] | MEASURED<br>FIELD<br>[V/m] | LINEARITY ±<br>UNCERTAINTY | REMARKS<br>DUE TO<br>SPECIFICATIONS | CORRECTION<br>FACTOR |
|---------------------------|----------------------------|----------------------------|-------------------------------------|----------------------|
| 3.02                      | 2.65                       | (0.0 ± 1.2) dB             | Border value                        | 1.14                 |
| 3.35                      | 2.94                       | (0.0 ± 1.1) dB             | Border value                        | 1.14                 |
| 3.75                      | 3.29                       | (0.0 ± 1.1) dB             | Border value                        | 1.14                 |
| 4.25                      | 3.73                       | (0.0 ± 1.0) dB             | Border value                        | 1.14                 |
| 4.77                      | 4.20                       | (0.0 ± 0.9) dB             | Border value                        | 1.14                 |
| 5.35                      | 4.71                       | (0.0 ± 0.9) dB             | Border value                        | 1.14                 |
| 5.99                      | 5.26                       | 0 dB (Reference)           |                                     | 1.14                 |
| 6.72                      | 5.91                       | (0.0 ± 0.8) dB             | Border value                        | 1.14                 |
| 7.53                      | 6.62                       | (0.0 ± 0.8) dB             | Border value                        | 1.14                 |
| 8.44                      | 7.42                       | (0.0 ± 0.7) dB             | Border value                        | 1.14                 |
| 9.48                      | 8.34                       | (0.0 ± 0.7) dB             | Border value                        | 1.14                 |
| 10.64                     | 9.35                       | (0.0 ± 0.7) dB             | Border value                        | 1.14                 |
| 11.94                     | 10.50                      | (0.0 ± 0.7) dB             | Border value                        | 1.14                 |

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Vijzelmolenlaan 7  
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The Netherlands

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Fax: +31 348 430 545  
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calibrations@dare.nl

## E-field Probe frequency response

Frequency range: 100 kHz – 150 MHz

Probe orientation: monopole in the same plane as E-field

Septum height: 0.45 m

Range: rangeless

Applied field: 5 V/m

| FREQUENCY<br>[MHz] | MEASURED FIELD<br>[V/m] |       |       | CF ± UNCERTAINTY |             |             | AVERAGE<br>CF |
|--------------------|-------------------------|-------|-------|------------------|-------------|-------------|---------------|
|                    | Pos 1                   | Pos 2 | Pos 3 | Pos 1            | Pos 2       | Pos 3       |               |
| 0.1                | 3.9                     | 4.5   | 4.8   | 1.53 ± 0.27      | 1.33 ± 0.23 | 1.27 ± 0.22 | 1.38          |
| 0.2                | 5.1                     | 5.8   | 5.8   | 1.19 ± 0.21      | 1.05 ± 0.18 | 1.02 ± 0.18 | 1.09          |
| 0.3                | 5.4                     | 6.1   | 6.0   | 1.10 ± 0.19      | 0.99 ± 0.17 | 0.99 ± 0.17 | 1.03          |
| 0.4                | 5.6                     | 6.1   | 5.9   | 1.07 ± 0.19      | 0.98 ± 0.17 | 1.00 ± 0.18 | 1.02          |
| 0.5                | 5.6                     | 6.1   | 5.9   | 1.06 ± 0.19      | 0.99 ± 0.17 | 1.02 ± 0.18 | 1.02          |
| 0.6                | 5.7                     | 6.1   | 5.8   | 1.05 ± 0.19      | 0.99 ± 0.18 | 1.03 ± 0.18 | 1.03          |
| 0.7                | 5.7                     | 5.9   | 5.6   | 1.06 ± 0.19      | 1.01 ± 0.18 | 1.06 ± 0.19 | 1.04          |
| 0.8                | 5.6                     | 5.9   | 5.6   | 1.06 ± 0.19      | 1.02 ± 0.18 | 1.07 ± 0.19 | 1.05          |
| 0.9                | 5.6                     | 5.9   | 5.6   | 1.06 ± 0.19      | 1.03 ± 0.18 | 1.09 ± 0.19 | 1.06          |
| 1                  | 5.6                     | 5.8   | 5.4   | 1.07 ± 0.19      | 1.04 ± 0.18 | 1.09 ± 0.19 | 1.07          |
| 2                  | 5.4                     | 5.6   | 5.4   | 1.11 ± 0.19      | 1.06 ± 0.19 | 1.11 ± 0.20 | 1.09          |
| 3                  | 5.3                     | 5.6   | 5.3   | 1.13 ± 0.20      | 1.07 ± 0.19 | 1.12 ± 0.20 | 1.10          |
| 4                  | 5.3                     | 5.6   | 5.3   | 1.13 ± 0.20      | 1.07 ± 0.19 | 1.12 ± 0.20 | 1.11          |
| 5                  | 5.3                     | 5.6   | 5.4   | 1.13 ± 0.20      | 1.07 ± 0.19 | 1.11 ± 0.20 | 1.10          |
| 6                  | 5.3                     | 5.5   | 5.4   | 1.13 ± 0.20      | 1.07 ± 0.19 | 1.11 ± 0.20 | 1.11          |
| 7                  | 5.3                     | 5.6   | 5.4   | 1.13 ± 0.20      | 1.07 ± 0.19 | 1.11 ± 0.20 | 1.10          |
| 8                  | 5.3                     | 5.6   | 5.4   | 1.13 ± 0.20      | 1.07 ± 0.19 | 1.11 ± 0.20 | 1.10          |
| 9                  | 5.3                     | 5.6   | 5.4   | 1.12 ± 0.20      | 1.07 ± 0.19 | 1.11 ± 0.20 | 1.10          |
| 10                 | 5.3                     | 5.6   | 5.4   | 1.12 ± 0.20      | 1.07 ± 0.19 | 1.11 ± 0.19 | 1.10          |
| 20                 | 5.3                     | 5.6   | 5.3   | 1.13 ± 0.20      | 1.07 ± 0.19 | 1.11 ± 0.20 | 1.10          |
| 30                 | 5.3                     | 5.5   | 5.4   | 1.13 ± 0.20      | 1.08 ± 0.19 | 1.12 ± 0.20 | 1.11          |
| 40                 | 5.2                     | 5.5   | 5.3   | 1.14 ± 0.20      | 1.08 ± 0.19 | 1.13 ± 0.20 | 1.12          |
| 50                 | 5.3                     | 5.4   | 5.3   | 1.15 ± 0.20      | 1.09 ± 0.19 | 1.13 ± 0.20 | 1.12          |
| 60                 | 5.2                     | 5.5   | 5.2   | 1.15 ± 0.20      | 1.10 ± 0.19 | 1.14 ± 0.20 | 1.13          |
| 70                 | 5.2                     | 5.4   | 5.3   | 1.15 ± 0.20      | 1.10 ± 0.19 | 1.14 ± 0.20 | 1.13          |
| 80                 | 5.2                     | 5.4   | 5.2   | 1.15 ± 0.20      | 1.10 ± 0.19 | 1.14 ± 0.20 | 1.13          |
| 90                 | 5.2                     | 5.5   | 5.3   | 1.14 ± 0.20      | 1.09 ± 0.19 | 1.13 ± 0.20 | 1.12          |
| 100                | 5.3                     | 5.5   | 5.3   | 1.14 ± 0.20      | 1.08 ± 0.19 | 1.12 ± 0.20 | 1.11          |
| 150                | 5.3                     | 5.5   | 5.3   | 1.13 ± 0.20      | 1.08 ± 0.19 | 1.12 ± 0.20 | 1.11          |

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#### E-field Probe frequency response

Frequency range: 100 MHz – 1 GHz

Probe orientation: monopole in the same plane as E-field

Antenna distance: 2.0 m

Range: rangeless

Applied field: 6 V/m

| FREQUENCY<br>[MHz] | MEASURED FIELD<br>[V/m] |       |       | CF ± UNCERTAINTY |             |             | AVERAGE<br>CF |
|--------------------|-------------------------|-------|-------|------------------|-------------|-------------|---------------|
|                    | Pos 1                   | Pos 2 | Pos 3 | Pos 1            | Pos 2       | Pos 3       |               |
| 200                | 5,5                     | 5,7   | 5,5   | 1,10 ± 0,16      | 1,05 ± 0,16 | 1,09 ± 0,16 | 1,08          |
| 250                | 5,3                     | 5,5   | 5,3   | 1,12 ± 0,17      | 1,09 ± 0,16 | 1,12 ± 0,17 | 1,11          |
| 300                | 5,4                     | 5,6   | 5,4   | 1,11 ± 0,16      | 1,07 ± 0,16 | 1,10 ± 0,16 | 1,10          |
| 350                | 5,6                     | 5,7   | 5,5   | 1,09 ± 0,16      | 1,06 ± 0,16 | 1,09 ± 0,16 | 1,08          |
| 400                | 5,5                     | 5,5   | 5,5   | 1,10 ± 0,16      | 1,09 ± 0,16 | 1,10 ± 0,16 | 1,10          |
| 450                | 5,6                     | 5,6   | 5,5   | 1,07 ± 0,16      | 1,07 ± 0,16 | 1,09 ± 0,16 | 1,08          |
| 500                | 5,6                     | 5,8   | 5,5   | 1,07 ± 0,16      | 1,04 ± 0,15 | 1,08 ± 0,16 | 1,06          |
| 550                | 5,8                     | 6,0   | 5,8   | 1,04 ± 0,15      | 1,00 ± 0,15 | 1,03 ± 0,15 | 1,02          |
| 600                | 5,8                     | 6,0   | 5,7   | 1,05 ± 0,16      | 1,01 ± 0,15 | 1,05 ± 0,16 | 1,04          |
| 650                | 5,5                     | 6,0   | 5,5   | 1,08 ± 0,16      | 1,01 ± 0,15 | 1,10 ± 0,16 | 1,06          |
| 700                | 5,7                     | 6,2   | 5,7   | 1,07 ± 0,16      | 0,98 ± 0,15 | 1,06 ± 0,16 | 1,04          |
| 750                | 5,6                     | 6,2   | 5,7   | 1,06 ± 0,16      | 0,96 ± 0,14 | 1,05 ± 0,16 | 1,02          |
| 800                | 5,9                     | 6,5   | 5,9   | 1,02 ± 0,15      | 0,93 ± 0,14 | 1,03 ± 0,15 | 0,99          |
| 850                | 6,2                     | 6,7   | 6,2   | 0,97 ± 0,14      | 0,90 ± 0,13 | 0,98 ± 0,14 | 0,95          |
| 900                | 5,9                     | 6,3   | 5,9   | 1,02 ± 0,15      | 0,95 ± 0,14 | 1,02 ± 0,15 | 1,00          |
| 950                | 5,6                     | 5,8   | 5,6   | 1,08 ± 0,16      | 1,04 ± 0,15 | 1,08 ± 0,16 | 1,07          |
| 1000               | 5,5                     | 5,6   | 5,5   | 1,10 ± 0,16      | 1,07 ± 0,16 | 1,10 ± 0,16 | 1,09          |

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#### E-field Probe frequency response

Frequency range: 1200 MHz – 6000 MHz

Probe orientation: monopole in the same plane as E-field

Antenna distance: 1,0 m

Range: rangeless

Applied field: 6 V/m

| FREQUENCY<br>[MHz] | MEASURED FIELD<br>[V/m] |       |       | CF ± UNCERTAINTY |             |             | AVERAGE<br>CF |
|--------------------|-------------------------|-------|-------|------------------|-------------|-------------|---------------|
|                    | Pos 1                   | Pos 2 | Pos 3 | Pos 1            | Pos 2       | Pos 3       |               |
| 1200               | 5,3                     | 5,2   | 5,3   | 1,11 ± 0,16      | 1,12 ± 0,17 | 1,11 ± 0,16 | 1,11          |
| 1400               | 5,3                     | 5,6   | 5,2   | 1,11 ± 0,15      | 1,06 ± 0,14 | 1,13 ± 0,15 | 1,10          |
| 1600               | 5,6                     | 6,1   | 5,5   | 1,07 ± 0,14      | 0,97 ± 0,13 | 1,07 ± 0,14 | 1,04          |
| 1800               | 5,6                     | 5,8   | 5,5   | 1,08 ± 0,17      | 1,02 ± 0,16 | 1,08 ± 0,17 | 1,06          |
| 2000               | 5,3                     | 5,4   | 5,3   | 1,13 ± 0,18      | 1,12 ± 0,18 | 1,13 ± 0,18 | 1,13          |
| 2200               | 5,4                     | 5,6   | 5,4   | 1,09 ± 0,17      | 1,08 ± 0,17 | 1,10 ± 0,18 | 1,09          |
| 2400               | 5,6                     | 5,8   | 5,6   | 1,09 ± 0,17      | 1,03 ± 0,16 | 1,07 ± 0,17 | 1,06          |
| 2600               | 5,8                     | 6,3   | 5,8   | 1,04 ± 0,16      | 0,96 ± 0,15 | 1,03 ± 0,16 | 1,01          |
| 2800               | 5,8                     | 5,9   | 5,8   | 1,03 ± 0,17      | 1,00 ± 0,16 | 1,03 ± 0,17 | 1,02          |
| 3000               | 5,7                     | 5,7   | 5,8   | 1,06 ± 0,17      | 1,05 ± 0,17 | 1,04 ± 0,17 | 1,05          |
| 3200               | 5,5                     | 5,5   | 5,5   | 1,10 ± 0,18      | 1,09 ± 0,17 | 1,09 ± 0,17 | 1,09          |
| 3400               | 5,3                     | 5,8   | 5,4   | 1,13 ± 0,18      | 1,03 ± 0,16 | 1,11 ± 0,18 | 1,09          |
| 3600               | 5,6                     | 6,1   | 5,7   | 1,07 ± 0,17      | 0,97 ± 0,15 | 1,06 ± 0,17 | 1,03          |
| 3800               | 5,5                     | 5,8   | 5,5   | 1,08 ± 0,17      | 1,03 ± 0,16 | 1,08 ± 0,17 | 1,06          |
| 4000               | 5,4                     | 5,6   | 5,5   | 1,10 ± 0,17      | 1,09 ± 0,17 | 1,09 ± 0,17 | 1,09          |
| 4200               | 5,3                     | 5,3   | 5,3   | 1,12 ± 0,17      | 1,12 ± 0,17 | 1,13 ± 0,17 | 1,12          |
| 4400               | 5,3                     | 5,6   | 5,4   | 1,12 ± 0,17      | 1,06 ± 0,16 | 1,10 ± 0,17 | 1,09          |
| 4600               | 4,9                     | 5,4   | 4,9   | 1,20 ± 0,18      | 1,10 ± 0,17 | 1,21 ± 0,18 | 1,17          |
| 4800               | 4,8                     | 5,2   | 4,8   | 1,24 ± 0,19      | 1,15 ± 0,18 | 1,24 ± 0,19 | 1,21          |
| 5000               | 4,9                     | 5,1   | 4,8   | 1,19 ± 0,18      | 1,18 ± 0,18 | 1,21 ± 0,18 | 1,20          |
| 5200               | 4,7                     | 4,8   | 4,7   | 1,25 ± 0,19      | 1,22 ± 0,19 | 1,25 ± 0,19 | 1,24          |
| 5400               | 4,7                     | 4,9   | 4,7   | 1,26 ± 0,19      | 1,21 ± 0,18 | 1,28 ± 0,19 | 1,25          |
| 5600               | 4,5                     | 4,8   | 4,6   | 1,30 ± 0,20      | 1,24 ± 0,19 | 1,27 ± 0,19 | 1,27          |
| 5800               | 4,2                     | 4,5   | 4,3   | 1,39 ± 0,21      | 1,31 ± 0,20 | 1,38 ± 0,21 | 1,36          |
| 6000               | 4,2                     | 4,4   | 4,2   | 1,40 ± 0,21      | 1,36 ± 0,21 | 1,39 ± 0,21 | 1,38          |

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Applied field: 6 V/m

| FREQUENCY<br>[MHz] | MEASURED<br>FIELD<br>Position 1<br>[V/m] | MEASURED<br>FIELD<br>Position 2<br>[V/m] | MEASURED<br>FIELD<br>Position 3<br>[V/m] | ANISOTROPY ±<br>UNCERTAINTY<br>[dB] |
|--------------------|------------------------------------------|------------------------------------------|------------------------------------------|-------------------------------------|
| 10                 | 5,34 V/m                                 | 5,62 V/m                                 | 5,42 V/m                                 | (0,2 ± 2,0) dB                      |
| 100                | 5,28 V/m                                 | 5,54 V/m                                 | 5,34 V/m                                 | (0,2 ± 2,0) dB                      |
| 1000               | 5,5 V/m                                  | 5,6 V/m                                  | 5,5 V/m                                  | (0,1 ± 1,8) dB                      |

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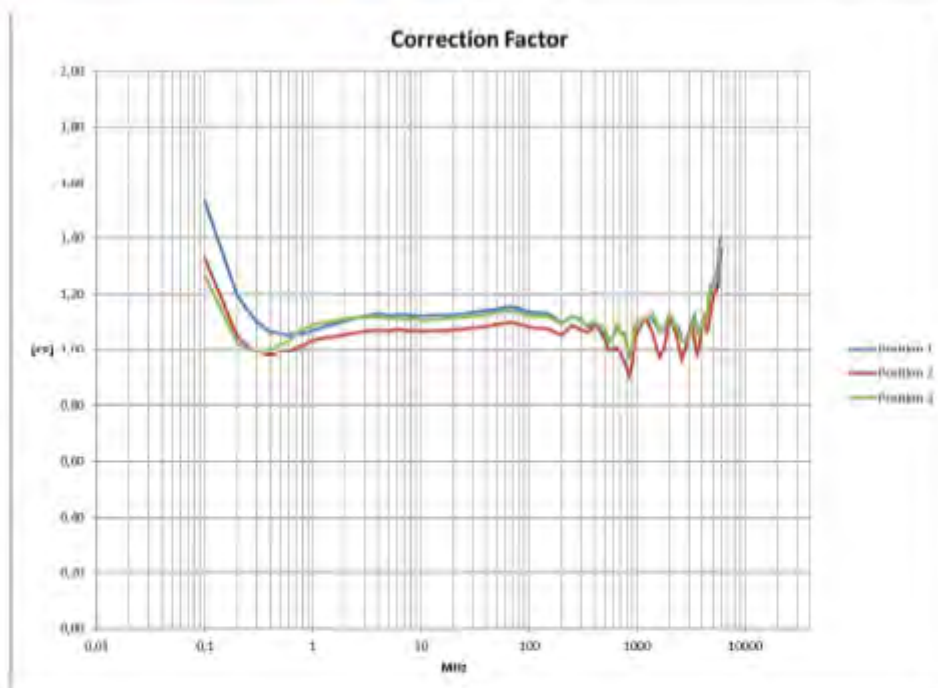
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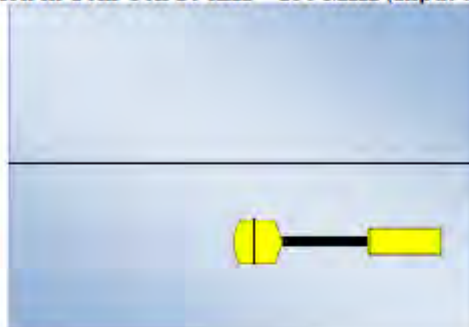
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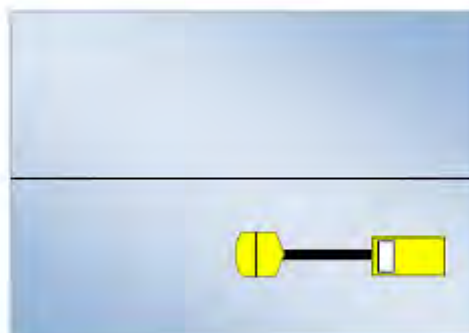
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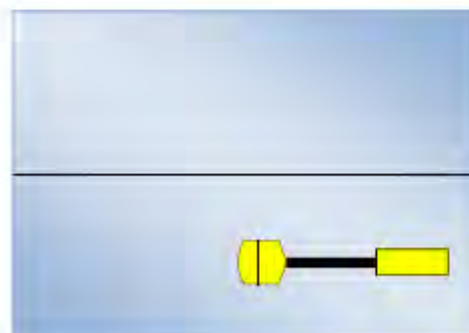
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Septum

**Position 2**

Septum

**Position 3**

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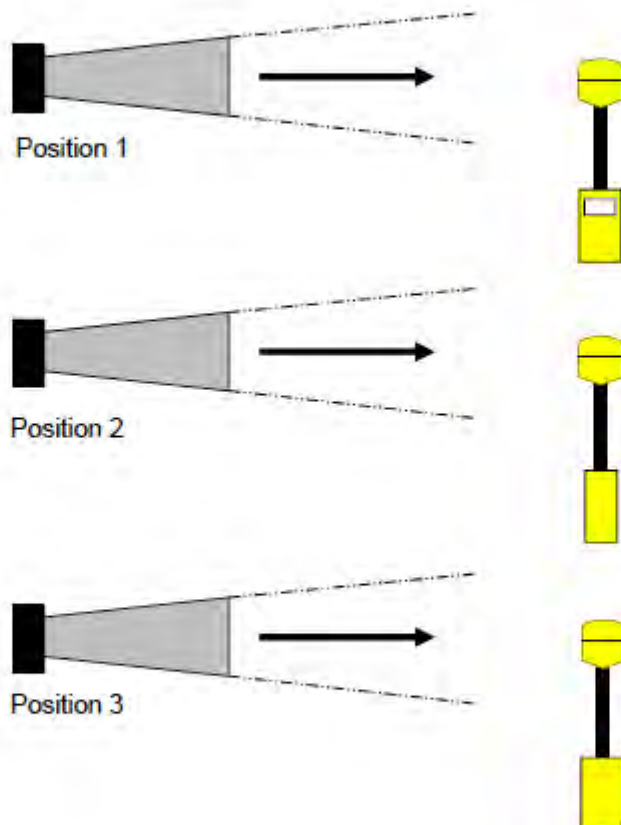
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Calibration servicesVijzelmolenlaan 7  
3447 GX Woerden  
The NetherlandsTel: +31 348 431 807  
Fax: +31 348 430 645  
www.dare.nl  
calibrations@dare.nl

## Probe orientation in anechoic room 200 MHz – 40 GHz (Top view)



Certificate number 201800190.00

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KvK Utrecht 30138675  
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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Calibration services

Vijzelmolenlaan 7  
3447 GX Woerden  
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Tel. +31 348 431 807  
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[www.dare.nl](http://www.dare.nl)  
[calibrations@dare.nl](mailto:calibrations@dare.nl)

IEC 61000-4-3 (2006-02) + A1 (2007-11) + A2 (2010-03) specifications

### Linearity check

 $\pm 0.5 \text{ dB}$ 

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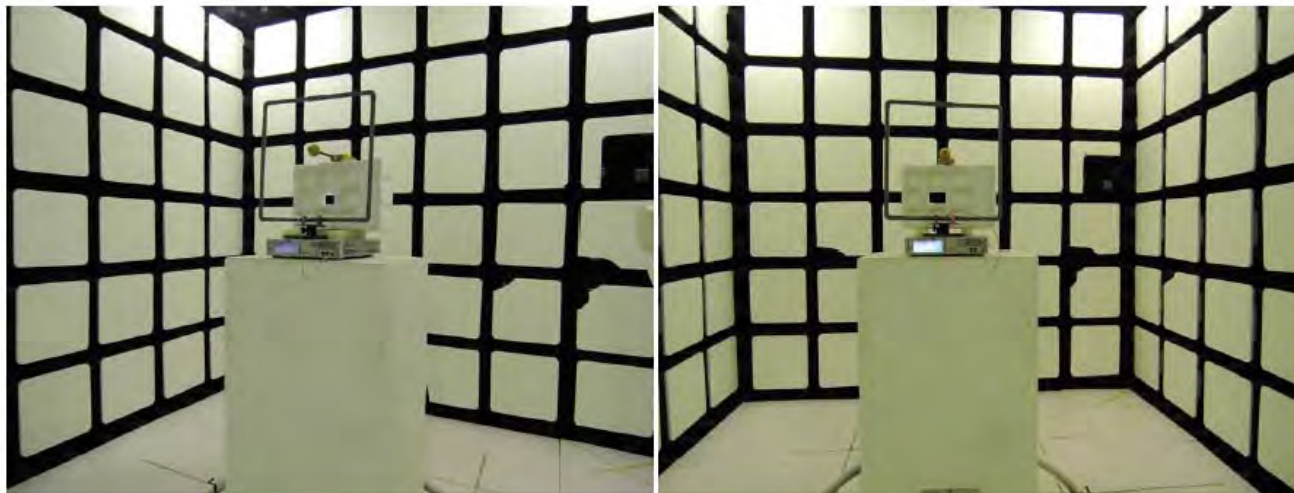
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## APPENDIX B. SYSTEM VALIDATION



| EMR-30 E-Field |            |                        |                    |
|----------------|------------|------------------------|--------------------|
| Ref.(V/M)      | Meas.(V/M) | Result of Deviation(%) | Deviation range(%) |
| 0.8            | 0.73       | 8.75                   | ±10                |
| 1.13           | 1.05       | 7.08                   |                    |
| 1.6            | 1.49       | 6.88                   |                    |

## PHOTOGRAPHS OF SET UP

Please refer to the attached file (Setup Photo)

~ End of Report ~

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