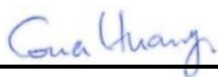


RF Exposure Report

FCC ID : 2AFZZ1RPADG
Equipment : Tablet Computer
Brand Name : Xiaomi
Model Name : 24091RPADG
Applicant : Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Manufacture : Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Standard : FCC 47 CFR Part 2.1093

The product was received on Sep. 06, 2024 and testing was started from Sep. 06, 2024 and completed on Sep. 06, 2024. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and has been pass the FCC requirement.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan



Table of Contents

| | |
|---|-----------|
| 1. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT) | 4 |
| 2. RF EXPOSURE LIMIT | 4 |
| 3. SYSTEM DESCRIPTION AND SETUP | 5 |
| 4. EQUIPMENT LIST | 8 |
| 5. SYSTEM VALIDATION | 8 |
| 6. RF EXPOSURE RESULTS..... | 9 |
| 6.1. Maximum Permissible Exposure Evaluation | 9 |
| 6.2. Peak Spatial-Average SAR Evaluation..... | 10 |
| 7. UNCERTAINTY..... | 11 |
| 8. REFERENCE | 13 |

Appendix A. Plots of System Performance Check

Appendix B. Plots of Highest Measurement Result

Appendix C. DASY Calibration Certificate

Appendix D. Test Setup Photo



Revision History

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FA481301 | Rev. 01 | Initial issue of report | Sep. 12, 2024 |
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1. Description of Equipment Under Test (EUT)

| Product Feature & Specification | |
|---------------------------------|-----------------|
| FCC ID | 2AFZZ1RPADG |
| Equipment | Tablet Computer |
| Brand Name | Xiaomi |
| Model Name | 24091RPADG |
| Frequency Range | 135 KHz~148 KHz |
| Mode | ASK |

2. RF Exposure Limit

<Limits for Maximum Permissible Exposure>

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|---|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) 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 |
| (B) 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

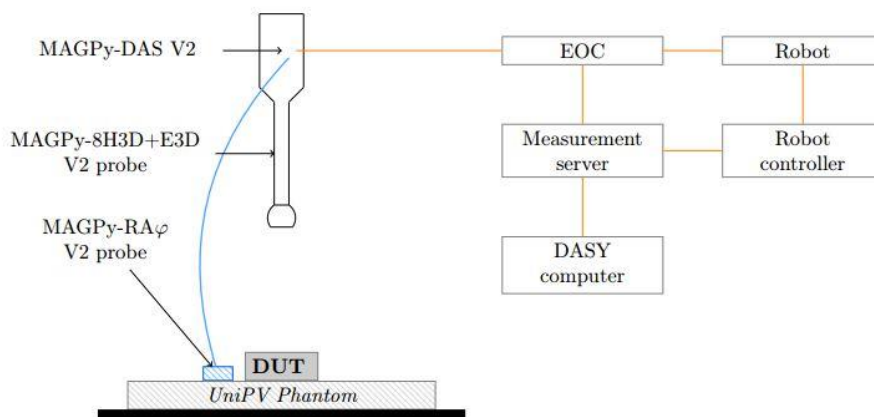
(1) Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure. The phrase fully aware in the context of applying these exposure limits means that an exposed person has received written and/or verbal information fully explaining the potential for RF exposure resulting from his or her employment. With the exception of transient persons, this phrase also means that an exposed person has received appropriate training regarding work practices relating to controlling or mitigating his or her exposure. Such training is not required for transient persons, but they must receive written and/or verbal information and notification (for example, using signs) concerning their exposure potential and appropriate means available to mitigate their exposure. The phrase exercise control means that an exposed person is allowed to and knows how to reduce or avoid exposure by administrative or engineering controls and work practices, such as use of personal protective equipment or time averaging of exposure.

(2) General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

<Limit for peak spatial-average SAR>

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

3. System Description and Setup



General Note:

1. DASy8 Module WPT v2.6+ is a special solution for high precision evaluations in the laboratory. The precision is achieved by combining the MAGPy system with the DASY robotics system and Sim4Life simulation platform. It is the first and only fully automated system for demonstrating compliance of WPT devices.
2. The setup figure shows a typical setup for the measurements with DASy8 Module WPT. The MAGPy-8H3D+E3D V2 probe with MAGPy-DAS V2 is mounted on a TX-90 or TX2-90 robot allowing to scan volumes as large as 2000 × 1000 × 1500 mm with a precision of ±0.2 mm. The H-field distributions can be analyzed directly and the values are compared to the reference level, or they are converted into Maxwell field and used as excitations for determining the basic restriction quantities for further dosimetric analysis with the Magneto Quasi-Static (MQS) solver. This specific solution is optimized for evaluation of H-field sources (3kHz–10MHz) and demonstration of compliance (3KHz–4 MHz)
3. Since the DASy8 Module WPT system alternatively, curve-fitting techniques may be used to estimate the field value(s) at distance based on measurements taken at larger distances. The test equipment permits the estimation of fields at 0mm separation distance based on measurements near the surface; Maxwell total field reconstruction is employed.
4. The DASy8 Module WPT with MAGPy-8H3D+E3D V2 Probe is capable of measuring the H-field in frequency and time-domain in the frequency band from 3 kHz to 10 MHz, covering a dynamic range from 0.1 to >3100 A/m.
5. The DASy8 Module WPT provides the relation between an externally applied H-field to each of the three sensors and the corresponding ADC reading over the frequency range from 3 kHz to 10 MHz. The frequency-dependent adjustment factors are used to determine the incident measured H-field from an ADC reading. For the frequency range from 1 to 10 MHz, the adjustment factors are applied with finite impulse response (FIR) filters directly inside the MAGPy-8H3D+E3D V2 in time-domain and frequencies <1 MHz in the frequency domain in the PC-based post-processing software.
6. In summary, this system of DASy8 Module WPT with MAGPy-8H3D+E3D V2 Probe fully meets the requirements of SPR002 Issue2 table A2

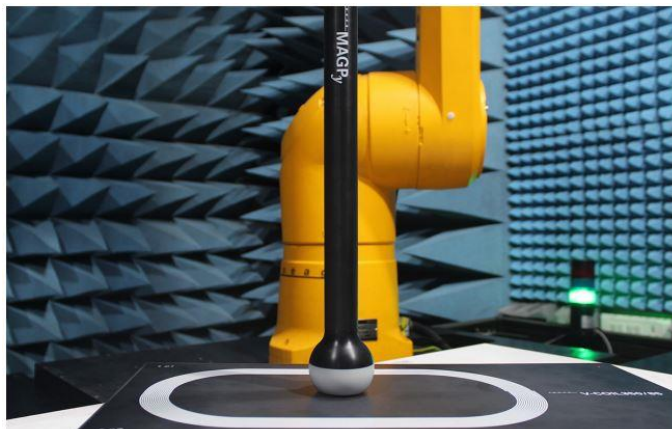
Probe Spec

The MAGPy-8H3D+E3D V2 probe consists of eight isotropic H-field sensors and one isotropic E-field sensor:
Probe design:

- Probe length: 335 mm
- Probe tip diameter: 60 mm
- 8H3D: eight isotropic 1 cm3-H-field sensors, arranged at the corners of a 22 mm cube
- First isotropic H-field sensor plane: 7.5 mm from the tip
- E3D: one isotropic E-field sensor (dipole / monopole)

Sensor specifications:

- Frequency range: 3 kHz – 10 MHz
- H-field dynamic range: 0.1 A/m – 3200 A/m (0.12 μT – 4 mT)
- H-field extrapolation uncertainty: 0.6 dB (k = 2)
- E-field dynamic range: 0.08 V/m – 2000 V/m



- **Compliance Evaluation**

DASY8 Module WPT SW version v2.6+ offers compliance evaluation with respect to:

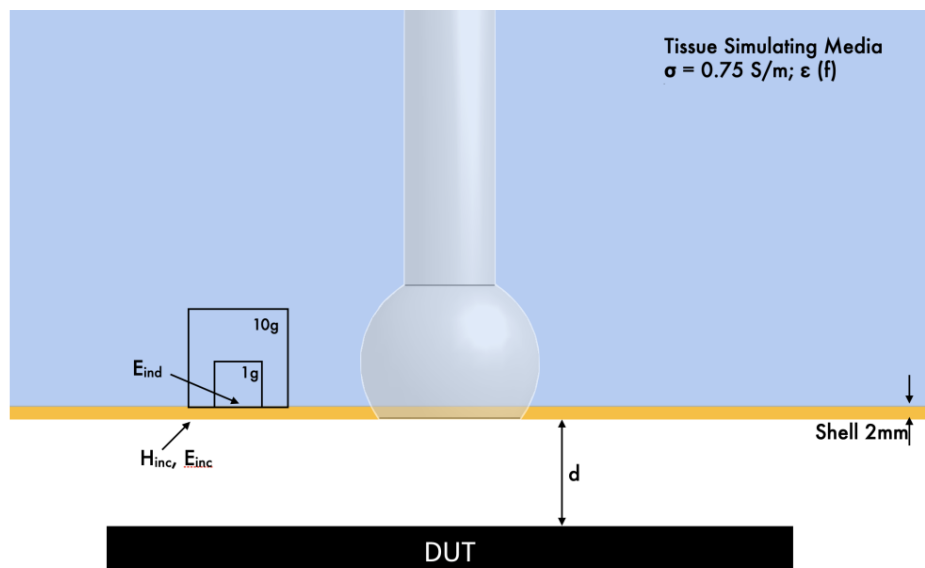
- **Reference levels** on the basis of the incident *H*- and *E*-fields measured from the volume scan
- **Basic restrictions** on the basis of the peak induced *E*-field, peak induced current density, and
- **peak spatial-average SAR** calculated from the Sim4Life simulation.

Since SPEAG release a DASY8 Module WPT system (*SW Module WPT V2.6+*) for E and H-Field measurement, and also the system support Sim4Life plug-in includes the components to import the 3D H-field scan data (*H_x, H_y, H_z* values in the measurement volume) to the Sim4Life simulation platform. And a magneto quasi-static (MQS) simulation is automatically setup to solve for a lossy halfspace Phantom setup. The lossy half-space has muscle tissue dielectric properties ($\sigma = 0.75 \text{ S/m}$, $\rho = 1000 \text{ kg/m}^3$), The induced electric (*E*-) fields and **specific absorption rate (SAR)** are assessed with Sim4Life's Quasi-Static EM Solver (P-EM-QS) using only the measured data.

The post-processing engine determines the maximum induced E-field, current density, and SAR values in a homogeneous half-space of muscle tissue equivalent media (half-space muscle phantom) positioned at the compliance distance. In general, the compliance distance corresponds to the closest point (with respect to the exposure source) the human body (e.g., a part of the hand) can reach during the operation of the source.

The relative dielectric constant, conductivity, and mass density of the homogeneous phantom used in the simulations were 55, 0.75 S/m, and 1000 kg/m³ respectively, which correspond to the phantom.

● **Simulation Results**



The distance used in the test raw data for simulation and compliance evaluation results is defined as the spacing between the top surface of the DUT and the bottom surface of the fictive phantom shell (with a thickness of 2 mm). In this case, the evaluation is made at distance d . Typically $d = 0$, i.e., at the DUT surface. The evaluation locations of the incident fields (i.e., H_{inc} and E_{inc}) as well as the induced fields (e.g., E_{ind} , psSAR1g, and psSAR10g) are also illustrated.

The following settings is used in the Dasy8 module WPT v2.6 software:

1. Total field evaluation: ON
2. Multi-frequency: ON
3. Coverage Factor: ON

The test plots in appendix B provided by the Dasy8 module WPT software is include the following information:

1. The field distribution, with a clear illustration of the -20 dB boundary. It is recommended to use the auto extend mode to ensure the full -20 dB boundary is assessed.
2. All three tables produced by the system including the "incident fields, and induced quantities in the standardized phantom and anatomical model", "Standard compliance evaluation, Absolute" and "Standard compliance evaluation, Relative" tables.
3. The test plot(s) shall clearly display the fundamental frequency, amplitude, and all emissions within the frequency range from 3 kHz to 10 MHz.

4. Equipment List

| Manufacturer | Name of Equipment | Type/Model | Serial Number | Calibration | |
|--------------|--|----------------|---------------|---------------|---------------|
| | | | | Last Cal. | Due Date |
| SPEAG | Near-field Electric and Megnetic Field Sensor System | MAGPy-8H3D+E3D | 3059 | May. 15, 2024 | May. 14, 2025 |
| SPEAG | Near-field Electric and Megnetic Field Sensor System | MAGPy-DAS | 3064 | May. 15, 2024 | May. 14, 2025 |
| SPEAG | Calibration Procedure for MAGPy Validation Source | V-Coil350/85 | 1023 | May. 22, 2024 | May. 21, 2025 |

5. System Validation

SPEAG developed the evaluation system DASY8 Module WPT for small-to-large size wireless power transfer (WPT) devices that combines subsystems of DASY8, MAGPy, and Sim4Life. The IT'IS Foundation was mandated to develop the system check and validation sources for WPT evaluations.

Below table shows the target value and measured value after normalized to 1A and comparing to the Target value provided by SPEAG calibration, the verification data should be within its specification of 1.24dB.

| Test Date | Calibrated Parameters (kHz) | Distance of the Virtual Phantom from the Surface (mm) | | Peak H-field (A/m) | Induced peak current density 1cm^2 area avg.(A/m^2) | Induced peak E-field (V/m) | | | peak spatial SAR (mW/kg) | |
|-----------|-----------------------------|---|---|--------------------|---|----------------------------|-------|-----------|--------------------------|----------|
| | | | | | | cube avg. | Local | line avg. | 1g avg. | 10g avg. |
| 2024/9/6 | 85 | Target | 0 | 208 | 2.35 | 3.35 | 3.38 | 3.39 | 6.5 | 4.84 |
| | | | 2 | 189 | 2.22 | 3.15 | 3.18 | 3.19 | 5.81 | 4.38 |
| | | Raw Measurement | 0 | 198 | 2.27 | 3.23 | 3.26 | 3.27 | 6.09 | 4.58 |
| | | | 2 | 180 | 2.15 | 3.04 | 3.07 | 3.08 | 5.47 | 4.17 |
| | | Deviation (dB) | 0 | -0.43 | -0.30 | -0.32 | -0.31 | -0.31 | -0.28 | -0.24 |
| | | | 2 | -0.42 | -0.28 | -0.31 | -0.31 | -0.30 | -0.26 | -0.21 |

6. RF Exposure Results

General Note:

1. For WPT evaluation was performed with client with > 85% battery state, equal 50% and < 15% battery state will verify worst configuration found from > 85% state.
2. Consider the client device in charging and user is using tablet, for RF exposure was performed at 0mm separation distance.
3. The simultaneous transmission analysis for the device reversed charging and with other transmitters active need to be considered, however, considering that the largest applicable simulation SAR is less than 0.0001 W/kg, therefore the contribution of the reverse charging to the total TER can be neglected.

6.1. Maximum Permissible Exposure Evaluation

Electric field Strength Result

| Plot No. | Position | Test Distance (mm) | Client Battery State | Measured Einc (V/m) | Einc Limit (V/m) | Result |
|----------|----------|--------------------|----------------------|---------------------|------------------|--------|
| | Front | 0 | > 85% | 13.5 | 614 | Pass |
| | Back | 0 | > 85% | 8.2 | 614 | Pass |
| | Edge1 | 0 | > 85% | 11.1 | 614 | Pass |
| | Edge2 | 0 | > 85% | 0.588 | 614 | Pass |
| | Edge3 | 0 | > 85% | 2.63 | 614 | Pass |
| | Edge4 | 0 | > 85% | 0.852 | 614 | Pass |
| 1 | Front | 0 | < 15% | 21.8 | 614 | Pass |
| | Front | 0 | = 50% | 17 | 614 | Pass |

Magnetic field Strength Result

| Plot No. | Position | Test Distance (mm) | Client Battery State | Measured Hinc (A/m) | Hinc Limit (A/m) | Result |
|----------|----------|--------------------|----------------------|---------------------|------------------|-----------------------|
| | Front | 0 | > 85% | 208 | 1.63 | Exceed ⁽¹⁾ |
| | Back | 0 | > 85% | 55.7 | 1.63 | Exceed ⁽¹⁾ |
| | Edge1 | 0 | > 85% | 31 | 1.63 | Exceed ⁽¹⁾ |
| | Edge2 | 0 | > 85% | 0.999 | 1.63 | Pass |
| | Edge3 | 0 | > 85% | 0.139 | 1.63 | Pass |
| | Edge4 | 0 | > 85% | 0.306 | 1.63 | Pass |
| 1 | Front | 0 | < 15% | 301 | 1.63 | Exceed ⁽¹⁾ |
| | Front | 0 | = 50% | 233 | 1.63 | Exceed ⁽¹⁾ |

1. An assessment against the Limit for peak spatial-average SAR shall be performed for the EUT when the Limits for Maximum Permissible Exposure are exceeded.

6.2. Peak Spatial-Average SAR Evaluation

Peak spatial-average SAR Result

| Plot No. | Position | Test Distance (mm) | Client Battery State | Measured 1g avg. SAR (W/kg) | 1g SAR Limit (W/kg) | Result |
|----------|----------|--------------------|----------------------|-----------------------------|---------------------|--------|
| | Front | 0 | > 85% | 0.000385 | 1.6 | Pass |
| | Back | 0 | > 85% | 0.0000244 | 1.6 | Pass |
| | Edge1 | 0 | > 85% | 0.0000252 | 1.6 | Pass |
| | Edge2 | 0 | > 85% | 0.000000111 | 1.6 | Pass |
| | Edge3 | 0 | > 85% | 0.000000000264 | 1.6 | Pass |
| | Edge4 | 0 | > 85% | 0.000000005700 | 1.6 | Pass |
| 1 | Front | 0 | < 15% | 0.000763 | 1.6 | Pass |
| | Front | 0 | = 50% | 0.000456 | 1.6 | Pass |

Conclusion:

Based on SPEAG DASY8 Module WPT-MAGPY system, a magneto quasi-static (MQS) simulation is automatically setup to solve for a lossy halfspace Phantom setup. The lossy half-space has muscle tissue dielectric properties ($\sigma = 0.75 \text{ S/m}$, $\rho = 1000 \text{ kg/m}^3$), The induced electric (E-) fields and specific absorption rate (SAR) are assessed with Sim4Life's Quasi-Static EM Solver (P-EM-QS) that the the product is compliance with Peak spatial-average SAR Result < 1.6W/kg.

7. Uncertainty

| Uncertainty Budget for Peak Incident H-field | | | | | |
|--|-------------------------|-------------|---------|------|---------------------------|
| Error Description | Uncertainty Value (±dB) | Probability | Divisor | (Ci) | Standard Uncertainty (dB) |
| Measurement System | | | | | |
| Amplitude calibration uncertainty | 0.35 | N | 1 | 1 | 0.35 |
| Probe anisotropy | 0.60 | R | 1.732 | 1 | 0.35 |
| Probe dynamic linearity | 0.20 | R | 1.732 | 1 | 0.12 |
| Probe frequency domain response | 0.30 | R | 1.732 | 1 | 0.17 |
| Probe frequency linear interp. fit | 0.15 | R | 1.732 | 1 | 0.09 |
| Spatial averaging | 0.10 | R | 1.732 | 1 | 0.06 |
| Parasitic E-field sensitivity | 0.10 | R | 1.732 | 1 | 0.06 |
| Detection limit | 0.15 | R | 1.732 | 1 | 0.09 |
| Readout electronics | 0.0 | N | 1 | 1 | 0.0 |
| Probe positioning | 0.19 | N | 1 | 1 | 0.19 |
| Repeatability | 0.10 | N | 1 | 1 | 0.10 |
| Surface field reconstruction | 0.30 | N | 1 | 1 | 0.30 |
| Combined uncertainty (k = 1) | | | | | 0.67 dB |
| Expanded uncertainty (k = 2) | | | | | 1.33 dB |

| Uncertainty Budget for Peak Incident E-field | | | | | |
|--|-------------------------|-------------|---------|------|---------------------------|
| Error Description | Uncertainty Value (±dB) | Probability | Divisor | (Ci) | Standard Uncertainty (dB) |
| Measurement System | | | | | |
| Amplitude calibration uncertainty | 0.53 | N | 1 | 1 | 0.53 |
| Probe anisotropy | 0.80 | R | 1.732 | 1 | 0.46 |
| Probe dynamic linearity | 1.00 | R | 1.732 | 1 | 0.58 |
| Probe frequency domain response | 0.30 | R | 1.732 | 1 | 0.17 |
| Probe frequency linear interp. fit | 0.15 | R | 1.732 | 1 | 0.09 |
| Parasitic H-field sensitivity | 0.20 | R | 1.732 | 1 | 0.12 |
| Detection limit | 0.15 | R | 1.732 | 1 | 0.09 |
| Readout electronics | 0 | N | 1 | 1 | 0 |
| Repeatability | 0.10 | N | 1 | 1 | 0.10 |
| Combined uncertainty (k = 1) | | | | | 0.95 dB |
| Expanded uncertainty (k = 2) | | | | | 1.89 dB |

| DASY8 Uncertainty Budget for psSAR1g according to IEC/IEEE 63184 | | | | | |
|---|------------------------|-------------|---------|------|-----------------------------|
| Error Description | Uncertainty Value (±%) | Probability | Divisor | (Ci) | Standard Uncertainty (± dB) |
| Measurement system | | | | | |
| Amplitude calibration uncertainty | 0.35 | N | 1 | 1 | 0.35 |
| Probe anisotropy | 0.60 | R | 1.732 | 1 | 0.35 |
| Probe dynamic linearity | 0.20 | R | 1.732 | 1 | 0.12 |
| Probe frequency domain response | 0.30 | R | 1.732 | 1 | 0.17 |
| Probe frequency linear interp. fit | 0.15 | R | 1.732 | 1 | 0.09 |
| Spatial averaging | 0.10 | R | 1.732 | 1 | 0.06 |
| Parasitic E-field sensitivity | 0.10 | R | 1.732 | 1 | 0.06 |
| Detection limit | 0.15 | R | 1.732 | 1 | 0.09 |
| Readout electronics | 0 | N | 1 | 1 | 0 |
| Probe positioning | 0.19 | N | 1 | 1 | 0.19 |
| Repeatability | 0.10 | N | 1 | 1 | 0.10 |
| Surface field reconstruction | 0.20 | N | 1 | 1 | 0.20 |
| Numerical Simulations | | | | | |
| Grid resolution | 0.02 | R | 1.732 | 1 | 0.01 |
| Tissue parameters | 0 | R | 1.732 | 1 | 0 |
| Exposure position | 0 | R | 1.732 | 1 | 0 |
| Model and exposure location | 0.09 | N | 1.732 | 1 | 0.09 |
| Convergence and power budget | 0 | R | 1.732 | 1 | 0 |
| Boundary conditions | 0.10 | R | 1.732 | 1 | 0.06 |
| Phantom loading/backscattering | 0.10 | R | 1.732 | 1 | 0.06 |
| Combined uncertainty (k = 1) | | | | | 0.63 dB |
| Expanded uncertainty (k = 2) | | | | | 1.27 dB |

8. Reference

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