No. 23T04Z80629-021

## ANNEX F System Validation

The SAR system must be validated against its performance specifications before it is deployed. When SAR probes, system components or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such components.

Table F.1: System Validation for 7464

| Probe SN. | Liquid name | Validation date | Frequency point | Status (OK or Not) |
| :---: | :---: | :---: | :---: | :---: |
| 7464 | Head 750MHz | February.20,2023 | 750 MHz | OK |
| 7464 | Head 900MHz | February.20,2023 | 900 MHz | OK |
| 7464 | Head 1450MHz | February.20,2023 | 1450 MHz | OK |
| 7464 | Head 1750MHz | February.20,2023 | 1750 MHz | OK |
| 7464 | Head 1900MHz | February.20,2023 | 1900 MHz | OK |
| 7464 | Head 2100MHz | February.20,2023 | 2100 MHz | OK |
| 7464 | Head 2300MHz | February.21,2023 | 2300 MHz | OK |
| 7464 | Head 2450MHz | February.21,2023 | 2450 MHz | OK |
| 7464 | Head 2600MHz | February.21,2023 | 2600 MHz | OK |
| 7464 | Head 3300MHz | February.21,2023 | 3300 MHz | OK |
| 7464 | Head 3500MHz | February.21,2023 | 3500 MHz | OK |
| 7464 | Head 3700MHz | February.21,2023 | 3700 MHz | OK |
| 7464 | Head 3900MHz | February.21,2023 | 3900 MHz | OK |
| 7464 | Head 4100MHz | February.22,2023 | 4100 MHz | OK |
| 7464 | Head 4200MHz | February.22,2023 | 4200 MHz | OK |
| 7464 | Head 4400MHz | February.22,2023 | 4400 MHz | OK |
| 7464 | Head 4600MHz | February.22,2023 | 4600 MHz | OK |
| 7464 | Head 4800MHz | February.2,2023 | 4800 MHz | OK |
| 7464 | Head 4950MHz | February.22,2023 | 4950 MHz | OK |
| 7464 | Head 5250MHz | February.23,2023 | 5250 MHz | OK |
| 7464 | Head 5600MHz | February.23,2023 | 5600 MHz | OK |
| 7464 | Head 5750MHz | February.23,2023 | 5750 MHz | OK |

## ANNEX G Probe Calibration Certificate

## Probe 7464 Calibration Certificate



Certificate No: Z22-60565
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## Glossary

TSL tissue simulating liquid
NORMx,y,z sensitivity in free space
ConvF sensitivity in TSL / NORMx,y,z
DCP diode compression point
CF crest factor (1/duty_cycle) of the RF signal
$A, B, C, D \quad$ modulation dependent linearization parameters
Polarization $\Phi$ $\Phi$ rotation around probe axis
Polarization $\theta \quad \theta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), $i$ $\theta=0$ is normal to probe axis
Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

## Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz )", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz )", March 2010
d) KDB 865664 , "SAR Measurement Requirements for 100 MHz to 6 GHz

## Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization $\theta=0$ ( $f \leq 900 \mathrm{MHz}$ in TEM-cell; $f>1800 \mathrm{MHz}$ : waveguide) NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the $E^{2}$-field uncertainty inside TSL (see below ConvF).
- $\operatorname{NORM}(f) x, y, z=N O R M x, y, z^{*}$ frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- $D C P x, y, z$ : DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- $A x, y, z ; B x, y, z ; C x, y, z ; V R x, y, z: A, B, C$ are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800 \mathrm{MHz}$ ) and inside waveguide using analytical field distributions based on power measurements for $\mathrm{f}>800 \mathrm{MHz}$. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary The sensitivity in TSL corresponds to NORMx,y,z* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from $\pm 50 \mathrm{MHz}$ to $\pm 100 \mathrm{MHz}$.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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## DASYIEASY - Parameters of Probe: EX3DV4 - SN:7464

## Basic Calibration Parameters

|  | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
| :--- | :--- | :--- | :--- | :--- |
| Norm $\left(\boldsymbol{\mu} \mathbf{V} /(\mathbf{V} / \mathbf{m})^{2}\right)^{\mathrm{A}}$ | 0.47 | 0.45 | 0.46 | $\pm 10.0 \%$ |
| $\mathbf{D C P}(\mathbf{m V})^{\mathrm{B}}$ | 100.0 | 100.1 | 99.0 |  |

## Modulation Calibration Parameters

| UID | Communication <br> System Name |  | $\mathbf{A}$ <br> $\mathbf{d B}$ | $\mathbf{B}$ <br> $\mathbf{d B} \sqrt{ } \boldsymbol{\mu} \mathbf{V}$ | $\mathbf{C}$ | $\mathbf{D}$ <br> $\mathbf{d B}$ | $\mathbf{V R}$ <br> $\mathbf{m V}$ | Unc $^{\mathbf{E}}$ <br> $(\boldsymbol{k}=\mathbf{2})$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{0}$ | $\mathbf{C W}$ | $\mathbf{X}$ | 0.0 | 0.0 | 1.0 | 0.00 | 165.7 | $\pm 2.3 \%$ |
|  |  | $\mathbf{Y}$ | 0.0 | 0.0 | 1.0 |  | 156.7 |  |
|  |  | $\mathbf{Z}$ | 0.0 | 0.0 | 1.0 |  | 161.4 |  |

The reported 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 $95 \%$.

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## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7464

## Calibration Parameter Determined in Head Tissue Simulating Media

| $\mathrm{f}^{[\mathrm{MHz}]^{\mathrm{C}}}$ | Relative <br> Permittivity $^{\mathrm{F}}$ | Conductivity <br> $(\mathrm{S} / \mathrm{m})^{\mathrm{F}}$ | ConvF X | ConvF Y | ConvF Z | Alpha $^{\mathrm{G}}$ | Depth <br> $(\mathrm{mm})$ | Unct. <br> $(\mathrm{k}=2)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 750 | 41.9 | 0.89 | 10.26 | 10.26 | 10.26 | 0.10 | 1.56 | $\pm 12.7 \%$ |
| 900 | 41.5 | 0.97 | 9.85 | 9.85 | 9.85 | 0.15 | 1.23 | $\pm 12.7 \%$ |
| 1450 | 40.5 | 1.20 | 8.88 | 8.88 | 8.88 | 0.14 | 1.11 | $\pm 12.7 \%$ |
| 1750 | 40.1 | 1.37 | 8.54 | 8.54 | 8.54 | 0.19 | 1.13 | $\pm 12.7 \%$ |
| 1900 | 40.0 | 1.40 | 8.13 | 8.13 | 8.13 | 0.19 | 1.16 | $\pm 12.7 \%$ |
| 2100 | 39.8 | 1.49 | 8.30 | 8.30 | 8.30 | 0.20 | 1.15 | $\pm 12.7 \%$ |
| 2300 | 39.5 | 1.67 | 7.95 | 7.95 | 7.95 | 0.42 | 0.76 | $\pm 12.7 \%$ |
| 2450 | 39.2 | 1.80 | 7.67 | 7.67 | 7.67 | 0.44 | 0.74 | $\pm 12.7 \%$ |
| 2600 | 39.0 | 1.96 | 7.50 | 7.50 | 7.50 | 0.48 | 0.71 | $\pm 12.7 \%$ |
| 3300 | 38.2 | 2.71 | 7.20 | 7.20 | 7.20 | 0.30 | 1.05 | $\pm 13.9 \%$ |
| 3500 | 37.9 | 2.91 | 7.06 | 7.06 | 7.06 | 0.30 | 1.15 | $\pm 13.9 \%$ |
| 3700 | 37.7 | 3.12 | 6.90 | 6.90 | 6.90 | 0.31 | 1.09 | $\pm 13.9 \%$ |
| 3900 | 37.5 | 3.32 | 6.77 | 6.77 | 6.77 | 0.30 | 1.45 | $\pm 13.9 \%$ |
| 4100 | 37.2 | 3.53 | 6.72 | 6.72 | 6.72 | 0.30 | 1.40 | $\pm 13.9 \%$ |
| 4200 | 37.1 | 3.63 | 6.62 | 6.62 | 6.62 | 0.30 | 1.45 | $\pm 13.9 \%$ |
| 4400 | 36.9 | 3.84 | 6.53 | 6.53 | 6.53 | 0.30 | 1.50 | $\pm 13.9 \%$ |
| 4600 | 36.7 | 4.04 | 6.42 | 6.42 | 6.42 | 0.40 | 1.30 | $\pm 13.9 \%$ |
| 4800 | 36.4 | 4.25 | 6.32 | 6.32 | 6.32 | 0.40 | 1.35 | $\pm 13.9 \%$ |
| 4950 | 36.3 | 4.40 | 6.06 | 6.06 | 6.06 | 0.40 | 1.35 | $\pm 13.9 \%$ |
| 5250 | 35.9 | 4.71 | 5.42 | 5.42 | 5.42 | 0.45 | 1.35 | $\pm 13.9 \%$ |
| 5600 | 35.5 | 5.07 | 4.85 | 4.85 | 4.85 | 0.45 | 1.40 | $\pm 13.9 \%$ |
| 5750 | 35.4 | 5.22 | 4.92 | 4.92 | 4.92 | 0.45 | 1.40 | $\pm 13.9 \%$ |

${ }^{\text {c }}$ Frequency validity above 300 MHz of $\pm 100 \mathrm{MHz}$ only applies for DASY v4.4 and higher (Page 2), else it is restricted to $\pm 50 \mathrm{MHz}$. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is $\pm 10,25,40,50$ and 70 MHz for ConvF assessments at $30,64,128$, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to $\pm 110 \mathrm{MHz}$.
${ }^{F}$ At frequency up to 6 GHz , the validity of tissue parameters ( $\varepsilon$ and $\sigma$ ) can be relaxed to $\pm 10 \%$ if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
${ }^{\text {G }}$ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than $\pm 1 \%$ for frequencies below 3 GHz and below $\pm 2 \%$ for the frequencies between $3-6 \mathrm{GHz}$ at any distance larger than half the probe tip diameter from the boundary.

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## Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 7.4 \%(\boldsymbol{k}=\mathbf{2})$

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## Receiving Pattern (Ф), $\boldsymbol{\theta}=\mathbf{0}^{\circ}$

## f=600 MHz, TEM


f=1800 MHz, R22



Uncertainty of Axial Isotropy Assessment: $\pm 1.2 \%$ ( $k=2$ )

## Dynamic Range f(SAR $\left.{ }_{\text {head }}\right)$ (TEM cell, $\mathrm{f}=\mathbf{9 0 0} \mathbf{~ M H z )}$


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## Conversion Factor Assessment

$\mathrm{f}=750 \mathrm{MHz}$,WGLS R9(H_convF) $\mathrm{f}=1750 \mathrm{MHz}$, WGLS R22(H_convF)



Deviation from Isotropy in Liquid


Uncertainty of Spherical Isotropy Assessment: $\mathbf{\pm 3 . 2 \%}$ ( $k=2$ )

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:7464

| Other Probe Parameters |  |
| :--- | :---: |
| Sensor Arrangement | Triangular |
| Connector Angle ( ${ }^{\circ}$ ) | 31.8 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disable |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 mm |
| Recommended Measurement Distance from Surface | 1.4 mm |

# ANNEX H Dipole Calibration Certificate 

750 MHz Dipole Calibration Certificate

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
Swiss Calibration Service

Accreditation No.: SCS 0108

## CALIBRATION CERTIFICATE



## Calibration Laboratory of

Schmid \& Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland
Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
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C Service suisse d'étalonnage
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## Glossary:

TSL tissue simulating liquid
ConvF sensitivity in TSL / NORM $x, y, z$
N/A not applicable or not measured

## Calibration is Performed According to the Following Standards:

a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz )", October 2020.
b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz "

## Additional Documentation:

c) DASY System Handbook

## Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $\mathrm{k}=2$, which for a normal distribution corresponds to a coverage probability of approximately $95 \%$.

## Measurement Conditions

DASY system configuration, as far as not given on page 1.

| DASY Version | DASY52 | V52.10.4 |
| :--- | :---: | :---: |
| Extrapolation | Advanced Extrapolation |  |
| Phantom | Modular Flat Phantom |  |
| Distance Dipole Center - TSL | 15 mm | with Spacer |
| Zoom Scan Resolution | $\mathrm{dx}, \mathrm{dy}, \mathrm{dz}=5 \mathrm{~mm}$ |  |
| Frequency | $750 \mathrm{MHz} \pm 1 \mathrm{MHz}$ |  |

## Head TSL parameters

The following parameters and calculations were applied.
The following parameters and calculations were applied.

|  | Temperature | Permittivity | Conductivity |
| :--- | :---: | :---: | :---: |
| Nominal Head TSL parameters | $22.0^{\circ} \mathrm{C}$ | 41.9 | $0.89 \mathrm{mho} / \mathrm{m}$ |
| Measured Head TSL parameters | $(22.0 \pm 0.2)^{\circ} \mathrm{C}$ | $42.1 \pm 6 \%$ | $0.90 \mathrm{mho} / \mathrm{m} \pm 6 \%$ |
| Head TSL temperature change during test | $<0.5^{\circ} \mathrm{C}$ | $\ldots--$ | --- |

## SAR result with Head TSL

| SAR averaged over $\mathbf{1} \mathbf{c m}^{\mathbf{3}} \mathbf{( \mathbf { 1 } )}$ of Head TSL | Condition |  |
| :--- | :---: | :---: |
| SAR measured | 250 mW input power | $2.12 \mathrm{~W} / \mathbf{k g}$ |
| SAR for nominal Head TSL parameters | normalized to 1 W | $\mathbf{8 . 4 2} \mathbf{W} / \mathbf{k g} \pm \mathbf{1 7 . 0} \%(\mathbf{k}=\mathbf{2})$ |


| SAR averaged over $\mathbf{1 0} \mathbf{c m}^{\mathbf{3}} \mathbf{( \mathbf { 1 0 } \mathbf { g } ) \text { of Head TSL }}$ | condition |  |
| :--- | :---: | :---: |
| SAR measured | 250 mW input power | $1.38 \mathrm{~W} / \mathbf{k g}$ |
| SAR for nominal Head TSL parameters | normalized to 1 W | $\mathbf{5 . 4 9} \mathbf{W} / \mathbf{k g} \pm \mathbf{1 6 . 5} \%(\mathbf{k}=\mathbf{2})$ |

## Appendix (Additional assessments outside the scope of SCS 0108)

## Antenna Parameters with Head TSL

| Impedance, transformed to feed point | $53.4 \Omega-0.3 \mathrm{j} \Omega$ |
| :--- | :---: |
| Return Loss | -29.6 dB |

## General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.034 ns |
| :--- | :--- |

After long term use with 100 W radiated power, only a slight warming of the dipole near the feedpoint can be measured.
The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

## Additional EUT Data

| Manufactured by SPEAG |
| :--- | :--- |

## DASY5 Validation Report for Head TSL

Test Laboratory: SPEAG, Zurich, Switzerland
DUT: Dipole 750 MHz ; Type: D750V3; Serial: D750V3 - SN: 1017
Communication System: UID $0-\mathrm{CW}$; Frequency: 750 MHz
Medium parameters used: $\mathrm{f}=750 \mathrm{MHz} ; \sigma=0.9 \mathrm{~S} / \mathrm{m} ; \varepsilon_{\mathrm{r}}=42.1 ; \rho=1000 \mathrm{~kg} / \mathrm{m}^{3}$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)
DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(10.11, 10.11, 10.11) @ 750 MHz ; Calibrated: 10.01 .2023
- Sensor-Surface: 1.4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: $\mathrm{dx}=5 \mathrm{~mm}, \mathrm{dy}=5 \mathrm{~mm}, \mathrm{dz}=5 \mathrm{~mm}$
Reference Value $=60.17 \mathrm{~V} / \mathrm{m}$; Power Drift $=-0.09 \mathrm{~dB}$
Peak SAR $($ extrapolated $)=3.19 \mathrm{~W} / \mathrm{kg}$
$\operatorname{SAR}(\mathbf{1} \mathrm{g})=\mathbf{2 . 1 2} \mathbf{W} / \mathrm{kg} ; \operatorname{SAR}(10 \mathrm{~g})=\mathbf{1 . 3 8} \mathbf{W} / \mathrm{kg}$
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid ( $>15 \mathrm{~mm}$ )
Ratio of SAR at M2 to SAR at M1 $=66 \%$
Maximum value of SAR $($ measured $)=2.85 \mathrm{~W} / \mathrm{kg}$

$0 \mathrm{~dB}=2.85 \mathrm{~W} / \mathrm{kg}=4.55 \mathrm{dBW} / \mathrm{kg}$


[^0]:    A The uncertainties of Norm $X, Y, Z$ do not affect the $E^{2}$-field uncertainty inside TSL (see Page 5).
    ${ }^{\mathrm{B}}$ Numerical linearization parameter: uncertainty not required.
    E Uncertainly is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

