

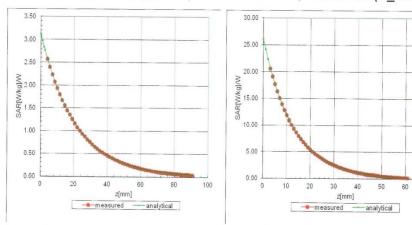


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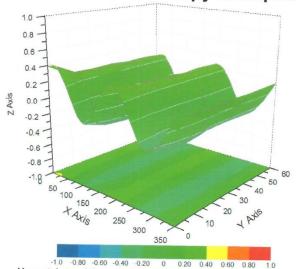
Conversion Factor Assessment

f=750 MHz, WGLS R9(H_convF)

f=1750 MHz, WGLS R22(H_convF)



Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment: ±3.2% (K=2)

Certificate No: Z19-60033





DASY/EASY - Parameters of Probe: EX3DV4 - SN: 3633

Other Probe Parameters

| Sensor Arrangement | Triangular |
|-----------------------------------------------|------------|
| Connector Angle (°) | 72.2 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disable |
| Probe Overall Length | 337mm |
| Probe Body Diameter | 10mm |
| Tip Length | 9mm |
| Tip Diameter | 2.5mm |
| Probe Tip to Sensor X Calibration Point | 1mm |
| Probe Tip to Sensor Y Calibration Point | 1mm |
| Probe Tip to Sensor Z Calibration Point | 1mm |
| Recommended Measurement Distance from Surface | 1.4mm |



ANNEX I Dipole Calibration Certificate

750 MHz Dipole Calibration Certificate

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Client TMC-SZ (Auden)

Certificate No: D750V3-1163_Sep16

CALIBRATION CERTIFICATE Object D750V3 - SN:1163 Calibration procedure(s) QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz

Calibration date: September 19, 2016

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
|---------------------------------------|----------------------------|--------------------------------------------------|----------------------------|
| Power meter NRP | SN: 104778 | 06-Apr-16 (No. 217-02288/02289) | Apr-17 |
| Power sensor NRP-Z91 | SN: 103244 | 06-Apr-16 (No. 217-02288) | Apr-17 |
| Power sensor NRP-Z91 | SN: 103245 | 06-Apr-16 (No. 217-02289) | Apr-17 |
| Reference 20 dB Attenuator | SN: 5058 (20k) | 05-Apr-16 (No. 217-02292) | Apr-17 |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 05-Apr-16 (No. 217-02295) | Apr-17 |
| Reference Probe EX3DV4 | SN: 7349 | 15-Jun-16 (No. EX3-7349_Jun16) | Jun-17 |
| DAE4 | SN: 601 | 30-Dec-15 (No. DAE4-601_Dec15) | Dec-16 |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| Power meter EPM-442A | SN: GB37480704 | 07-Oct-15 (No. 217-02222) | In house check: Oct-16 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (No. 217-02222) | In house check: Oct-16 |
| Power sensor HP 8481A | SN: MY41092317 | 07-Oct-15 (No. 217-02223) | In house check: Oct-16 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Jun-15) | In house check: Oct-16 |
| Network Analyzer HP 8753E | SN: US37390585 | 18-Oct-01 (in house check Oct-15) | In house check: Oct-16 |
| | Name | Function | Signature |
| Calibrated by: | Jeton Kastrati | Laboratory Technician | to lac |
| Approved by: | Katja Pokovic | Technical Manager | Re M |
| | | | Issued: September 19, 2016 |
| This calibration certificate shall no | ot be reproduced except in | n full without written approval of the laborator | ry. |

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Certificate No: D750V3-1163_Sep16



Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL

tissue simulating liquid

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

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, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- 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"

Additional Documentation:

e) DASY4/5 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 dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 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 k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D750V3-1163_Sep16



Measurement Conditions

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

| DASY Version | DASY5 | V52.8.8 |
|------------------------------|------------------------|-------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom | |
| Distance Dipole Center - TSL | 15 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 750 MHz ± 1 MHz | |

Head TSL parameters
The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|-----------------------------------------|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 41.9 | 0.89 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 41.0 ± 6 % | 0.91 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | F. 1875 | |

SAR result with Head TSL

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|-------------------------------------------------------|--------------------|--------------------------|
| SAR measured | 250 mW input power | 2.11 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 8.26 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---------------------------------------------------------|--------------------|--------------------------|
| SAR measured | 250 mW input power | 1.38 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 5.43 W/kg ± 16.5 % (k=2) |

Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|-----------------------------------------|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 55.5 | 0.96 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 54.9 ± 6 % | 0.99 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | | |

SAR result with Body TSL

| SAR averaged over 1 cm ³ (1 g) of Body TSL | Condition | |
|-------------------------------------------------------|--------------------|--------------------------|
| SAR measured | 250 mW input power | 2.20 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 8.58 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Body TSL | condition | |
|---------------------------------------------------------|--------------------|--------------------------|
| SAR measured | 250 mW input power | 1.44 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 5.64 W/kg ± 16.5 % (k=2) |



Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 54.5 Ω - 1.8 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 26.8 dB |

Antenna Parameters with Body TSL

| Impedance, transformed to feed point | 49.8 Ω - 3.5 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 29.0 dB |

General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.032 ns |
|----------------------------------|----------|

After long term use with 100W 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 |
|-----------------|---------------|
| Manufactured on | June 23, 2016 |



DASY5 Validation Report for Head TSL

Date: 19.09.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: D750V3 - SN1163; Type: D750V3; Serial: SN1163

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; $\sigma = 0.91 \text{ S/m}$; $\varepsilon_r = 41$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(10.07, 10.07, 10.07); Calibrated: 15.06.2016;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn601; Calibrated: 30.12.2015

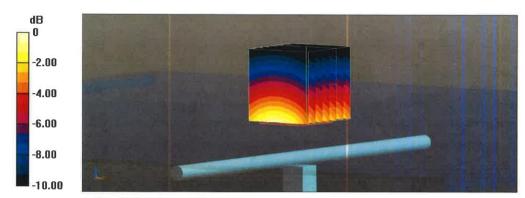
Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001

• DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 58.31 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.16 W/kg SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.38 W/kg

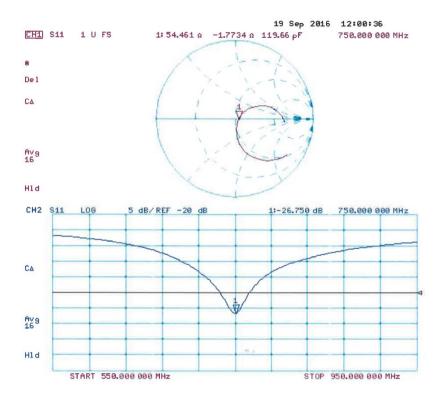
Maximum value of SAR (measured) = 2.79 W/kg



0 dB = 2.79 W/kg = 4.46 dBW/kg



Impedance Measurement Plot for Head TSL





DASY5 Validation Report for Body TSL

Date: 19.09.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: D750V3 - SN1163; Type: D750V3; Serial: SN1163

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; $\sigma = 0.99 \text{ S/m}$; $\varepsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(9.99, 9.99, 9.99); Calibrated: 15.06.2016;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 30.12.2015

Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001

• DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

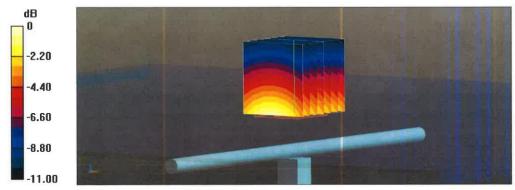
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.12 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 2.2 W/kg; SAR(10 g) = 1.44 W/kg

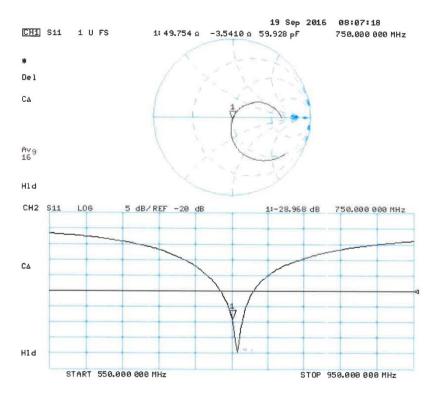
Maximum value of SAR (measured) = 2.94 W/kg



0 dB = 2.94 W/kg = 4.68 dBW/kg



Impedance Measurement Plot for Body TSL





835 MHz Dipole Calibration Certificate









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Certificate No:

Z18-60385

CALIBRATION CERTIFICATE

CTTL(South Branch)

Object

D835V2 - SN: 4d057

Calibration Procedure(s)

FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date:

October 9, 2018

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3) Tand humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID# | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|-------------------------|------------|------------------------------------------|-----------------------|
| Power Meter NRVD | 102083 | 01-Nov-17 (CTTL, No.J17X08756) | Oct-18 |
| Power sensor NRV-Z5 | 100542 | 01-Nov-17 (CTTL, No.J17X08756) | Oct-18 |
| Reference Probe EX3DV4 | SN 7514 | 27-Aug-18(SPEAG,No.EX3-7514_Aug18) | Aug-19 |
| DAE4 | SN 1555 | 20-Aug-18(SPEAG,No.DAE4-1555_Aug18) | Aug-19 |
| Secondary Standards | ID# | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
| Signal Generator E4438C | MY49071430 | 23-Jan-18 (CTTL, No.J18X00560) | Jan-19 |
| NetworkAnalyzer E5071C | MY46110673 | 24-Jan-18 (CTTL, No.J18X00561) | Jan-19 |
| | | | |

| | Name | Function | Signature |
|----------------|-------------|--------------------|-----------|
| Calibrated by: | Zhao Jing | SAR Test Engineer | 装 |
| Reviewed by: | Lin Hao | SAR Test Engineer | Alab |
| Approved by: | Qi Dianyuan | SAR Project Leader | 2008 |

Issued: October 11, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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Page 1 of 8





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Glossary:

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

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 assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

e) DASY4/5 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 dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 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 k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

Certificate No: Z18-60385





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Measurement Conditions

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

| DASY Version | DASY52 | 52.10.1.1476 |
|------------------------------|--------------------------|--------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Triple Flat Phantom 5.1C | |
| Distance Dipole Center - TSL | 15 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 835 MHz ± 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|-----------------------------------------|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 41.5 | 0.90 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 42.2 ± 6 % | 0.91 mho/m ± 6 % |
| Head TSL temperature change during test | <1.0 °C | | |

SAR result with Head TSL

| SAR averaged over 1 cm^3 (1 g) of Head TSL | Condition | |
|---------------------------------------------------------|--------------------|---------------------------|
| SAR measured | 250 mW input power | 2.42 mW / g |
| SAR for nominal Head TSL parameters | normalized to 1W | 9.62 mW /g ± 18.8 % (k=2) |
| SAR averaged over 10 cm ³ (10 g) of Head TSL | Condition | |
| SAR measured | 250 mW input power | 1.58 mW / g |
| SAR for nominal Head TSL parameters | normalized to 1W | 6.29 mW /g ± 18.7 % (k=2) |

Body TSL parameters
The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|-----------------------------------------|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 55.2 | 0.97 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 55.9 ± 6 % | 0.99 mho/m ± 6 % |
| Body TSL temperature change during test | <1.0 °C | 222 | 12022 |

SAR result with Body TSL

| SAR averaged over 1 cm^3 (1 g) of Body TSL | Condition | |
|---------------------------------------------------------------------------------------------------------|--------------------|---------------------------|
| SAR measured | 250 mW input power | 2.51 mW/g |
| SAR for nominal Body TSL parameters | normalized to 1W | 9.90 mW /g ± 18.8 % (k=2) |
| SAR averaged over 10 $^{\circ}\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$ | Condition | |
| SAR measured | 250 mW input power | 1.66 mW / g |
| SAR for nominal Body TSL parameters | normalized to 1W | 6.56 mW /g ± 18.7 % (k=2) |

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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 49.6Ω- 4.08jΩ | |
|--------------------------------------|---------------|--|
| Return Loss | - 27.7dB | |

Antenna Parameters with Body TSL

| Impedance, transformed to feed point | 46.8Ω- 4.96jΩ | |
|--------------------------------------|---------------|--|
| Return Loss | - 24.3dB | |

General Antenna Parameters and Design

| 1.260 ns |
|----------|
| |

After long term use with 100W 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 |
|-----------------|--------|
| manadarea by | 01 270 |

Certificate No: Z18-60385

Date: 10.08.2018





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DASY5 Validation Report for Head TSL

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d057

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium parameters used: f = 835 MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 42.22$; $\rho = 1000$ kg/m3

Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 SN7514; ConvF(9.09, 9.09, 9.09) @ 835 MHz; Calibrated: 8/27/2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1555; Calibrated: 8/20/2018
- Phantom: MFP_V5.1C; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

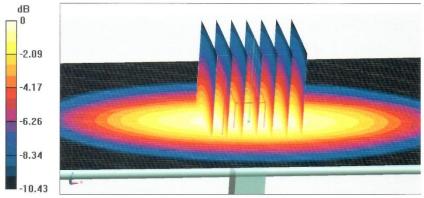
Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 55.57 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.61 W/kg

SAR(1 g) = 2.42 W/kg; SAR(10 g) = 1.58 W/kgMaximum value of SAR (measured) = 3.22 W/kg



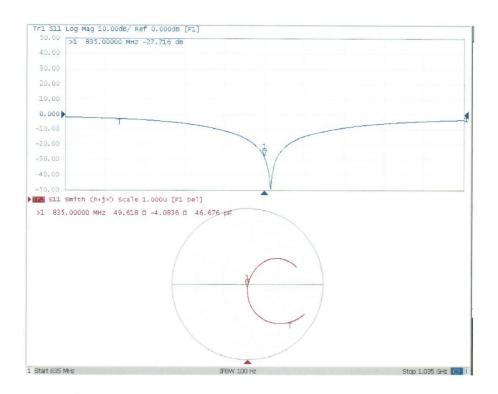
0 dB = 3.22 W/kg = 5.08 dBW/kg





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Impedance Measurement Plot for Head TSL



Date: 10.08.2018





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DASY5 Validation Report for Body TSL

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d057

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium parameters used: f = 835 MHz; σ = 0.992 S/m; ϵ_r = 55.93; ρ = 1000 kg/m3

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN7514; ConvF(9.47, 9.47, 9.47) @ 835 MHz; Calibrated: 8/27/2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1555; Calibrated: 8/20/2018
- Phantom: MFP_V5.1C; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,

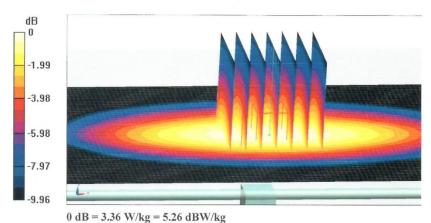
dy=5mm, dz=5mm

Reference Value = 56.64 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.83 W/kg

SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.66 W/kg

Maximum value of SAR (measured) = 3.36 W/kg

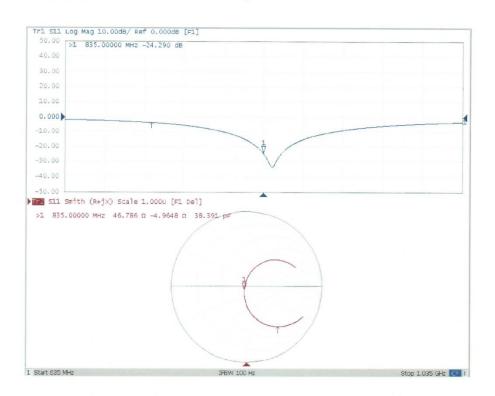






Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504 E-mail: cttl@chinattl.com http://www.chinattl.cn

Impedance Measurement Plot for Body TSL





1750 MHz Dipole Calibration Certificate

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Client TMC-SZ (Auden)

Certificate No: D1750V2-1152_Sep16

| Calibration procedure for dipole validation kits above 700 MHz Calibration date: September 09, 2016 This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards ID # Cal Date (Certificate No.) Scheduled Calibration Power meter NRP Power sensor NRP-Z91 SN: 103244 06-Apr-16 (No. 217-02288) Apr-17 Power sensor NRP-Z91 SN: 103244 06-Apr-16 (No. 217-02289) Apr-17 Type-N mismatch combination SN: 5088 (20K) 05-Apr-16 (No. 217-02292) Apr-17 Type-N mismatch combination SN: 5047.2 / 06327 05-Apr-16 (No. 217-02292) Apr-17 Reference Probe EX3DV4 SN: 7349 15-Jun-16 (No. EX3-7349_Jun16) Jun-17 DAE4 SN: 601 30-Dec-15 (No. DAE4-601_Dec15) Dec-16 Secondary Standards ID # Check Date (in house) Scheduled Check Power sensor HP 8481A SN: US37292783 07-Oct-15 (No. 217-02222) In house check: Oct- Power sensor HP 8481A SN: US37292783 07-Oct-15 (No. 217-02222) In house check: Oct- Power sensor HP 8481A SN: US37390585 18-Oct-01 (in house check Uct-15) In house check: Oct- Network Analyzer HP 8753E SN: US37390585 18-Oct-01 (in house check Oct-15) In house check: Oct- Name Function Signature Laboratory Technician | Object | D1750V2 - SN:1152 | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Calibration date: September 09, 2016 This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards ID # Cal Date (Certificate No.) Scheduled Calibration Power meter NRP Power sensor NRP-291 SN: 104778 06-Apr-16 (No. 217-02289) Apr-17 Power sensor NRP-291 SN: 103244 06-Apr-16 (No. 217-02289) Apr-17 Power sensor NRP-291 SN: 103245 06-Apr-16 (No. 217-02289) Apr-17 Type-N mismatch combination SN: 5058 (20k) 05-Apr-16 (No. 217-02292) Apr-17 Type-N mismatch combination SN: 5047.2 / 06327 05-Apr-16 (No. 217-02292) Apr-17 DAE4 SN: 601 30-Dec-15 (No. DAE4-601_Dec15) Dec-16 Secondary Standards ID # Check Date (in house) Scheduled Check Power sensor HP 8481A SN: US37292783 07-Oct-15 (No. 217-02222) In house check: Oct- Power sensor HP 8481A SN: US37292783 07-Oct-15 (No. 217-02222) In house check: Oct- Power sensor HP 8481A SN: US37292783 07-Oct-15 (No. 217-02222) In house check: Oct- Power sensor HP 8481A SN: US37390585 18-Oct-01 (in house check Jun-15) In house check: Oct- Name Function Signature Calibrated by: | Calibration procedure(s) | | | |
| This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards ID # Cal Date (Certificate No.) Scheduled Calibration Power meter NRP SN: 104778 06-Apr-16 (No. 217-02288/02289) Apr-17 Power sensor NRP-Z91 SN: 103244 06-Apr-16 (No. 217-02288) Apr-17 Power sensor NRP-Z91 SN: 103245 06-Apr-16 (No. 217-02289) Apr-17 Type-N mismatch combination SN: 5058 (20k) 05-Apr-16 (No. 217-02299) Apr-17 Type-N mismatch combination SN: 5047.2 / 06327 05-Apr-16 (No. 217-02295) Apr-17 Reference Probe EX3DV4 SN: 7349 15-Jun-16 (No. EX3-7349_Jun16) Jun-17 DAE4 SN: 601 30-Dec-15 (No. DAE4-601_Dec15) Dec-16 Secondary Standards ID # Check Date (in house) Scheduled Check Power meter EPM-442A SN: US37292783 07-Oct-15 (No. 217-02222) In house check: Oct- Power sensor HP 8481A SN: US37292783 07-Oct-15 (No. 217-02222) In house check: Oct- Power sensor HP 8481A SN: WY41092317 07-Oct-15 (No. 217-02222) In house check: Oct- Power sensor HP 8481A SN: WY41092317 07-Oct-15 (No. 217-02222) In house check: Oct- Name Function Signature Calibrated by: Cal Date (Cert | | Cambration proce | date for dipole validation title abo | 700 WH 12 |
| The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards ID # Cal Date (Certificate No.) Scheduled Calibration Power meter NRP SN: 104778 06-Apr-16 (No. 217-02288/02289) Apr-17 Power sensor NRP-Z91 SN: 103244 06-Apr-16 (No. 217-02288) Apr-17 Power sensor NRP-Z91 SN: 103245 06-Apr-16 (No. 217-02289) Apr-17 Type-N mismatch combination SN: 5058 (20k) 05-Apr-16 (No. 217-02292) Apr-17 Type-N mismatch combination SN: 5047. 2 / 06327 05-Apr-16 (No. 217-02295) Apr-17 Reference 20 dB Attenuator SN: 5047. 2 / 06327 05-Apr-16 (No. 237-349_Jun16) Jun-17 DAE4 SN: 7349 15-Jun-16 (No. EX3-7349_Jun16) Jun-17 DAE4 SN: 601 30-Dec-15 (No. DAE4-601_Dec15) Dec-16 Secondary Standards ID # Check Date (in house) Scheduled Check Power sensor HP 8481A SN: US37292783 07-Oct-15 (No. 217-02222) In house check: Oct- Power sensor HP 8481A SN: WS41092317 07-Oct-15 (No. 217-02222) In house check: Oct- RF generator R&S SMT-06 SN: 100972 15-Jun-16 (in house check Jun-15) In house check: Oct- Network Analyzer HP 8753E SN: US37390585 18-Oct-01 (in house check Oct-15) In house check: Oct- Name Function Signature Calibrated by: Johannes Kurikka Laboratory Technician | Calibration date: | September 09, 2 | 016 | |
| All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards ID # | This calibration certificate docume | ents the traceability to nati | ional standards, which realize the physical un | its of measurements (SI). |
| Calibration Equipment used (M&TE critical for calibration) Primary Standards ID # Cal Date (Certificate No.) Scheduled Calibration Power meter NRP SN: 104778 06-Apr-16 (No. 217-02288) Apr-17 Power sensor NRP-Z91 SN: 103244 06-Apr-16 (No. 217-02288) Apr-17 Power sensor NRP-Z91 SN: 103245 06-Apr-16 (No. 217-02289) Apr-17 Reference 20 dB Attenuator SN: 5058 (20k) 05-Apr-16 (No. 217-02292) Apr-17 Type-N mismatch combination SN: 5047.2 / 06327 05-Apr-16 (No. 217-02295) Apr-17 Reference Probe EX3DV4 SN: 7349 15-Jun-16 (No. EX3-7349_Jun16) Jun-17 DAE4 SN: 601 30-Dec-15 (No. DAE4-601_Dec15) Dec-16 Secondary Standards ID # Check Date (in house) Scheduled Check Power meter EPM-442A SN: GB37480704 07-Oct-15 (No. 217-02222) In house check: Oct-19-00000000000000000000000000000000000 | The measurements and the uncer | rtainties with confidence p | robability are given on the following pages an | nd are part of the certificate. |
| Calibration Equipment used (M&TE critical for calibration) | All calibrations have been conduc | ted in the closed laborato | ry facility: environment temperature (22 ± 3)°C | C and humidity < 70%. |
| Primary Standards | | | | |
| Power meter NRP | Calibration Equipment used (M&T | E critical for calibration) | 4.1 | |
| SN: 103244 | Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
| Power sensor NRP-Z91 | Power meter NRP | SN: 104778 | 06-Apr-16 (No. 217-02288/02289) | Apr-17 |
| Reference 20 dB Attenuator SN: 5058 (20k) 05-Apr-16 (No. 217-02292) Apr-17 | Power sensor NRP-Z91 | SN: 103244 | 06-Apr-16 (No. 217-02288) | Apr-17 |
| SN: 5047.2 / 06327 O5-Apr-16 (No. 217-02295) Apr-17 | ower sensor NRP-Z91 | SN: 103245 | 06-Apr-16 (No. 217-02289) | Apr-17 |
| SN: 7349 15-Jun-16 (No. EX3-7349_Jun16) Jun-17 | Reference 20 dB Attenuator | SN: 5058 (20k) | 05-Apr-16 (No. 217-02292) | Apr-17 |
| DAE4 | Type-N mismatch combination | SN: 5047.2 / 06327 | 05-Apr-16 (No. 217-02295) | Apr-17 |
| Secondary Standards ID # Check Date (in house) Scheduled Check Power meter EPM-442A SN: GB37480704 O7-Oct-15 (No. 217-02222) In house check: Oct- Power sensor HP 8481A SN: US37292783 O7-Oct-15 (No. 217-02222) In house check: Oct- I | | SN: 7349 | 15-Jun-16 (No. EX3-7349_Jun16) | Jun-17 |
| Power meter EPM-442A Power meter EPM-442A SN: GB37480704 O7-Oct-15 (No. 217-02222) In house check: Oct- Power sensor HP 8481A SN: US37292783 O7-Oct-15 (No. 217-02222) In house check: Oct- In house c | Reference Probe EX3DV4 | SN: 601 | 30-Dec-15 (No. DAE4-601_Dec15) | Dec-16 |
| Power meter EPM-442A Power sensor HP 8481A SN: GB37480704 SN: US37292783 O7-Oct-15 (No. 217-02222) In house check: Oct- In house check: | | | Cheek Date (in house) | Scheduled Check |
| Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer HP 8753E Name SN: MY41092317 O7-Oct-15 (No. 217-02223) In house check: Oct- Network Analyzer HP 8753E Name Function Signature Calibrated by: SN: MY41092317 O7-Oct-15 (No. 217-02223) In house check: Oct- In house check: Oct- Signature Laboratory Technician | DAE4 | ID # | Check Date (in house) | |
| Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer HP 8753E Name SN: MY41092317 SN: US37390585 Name Function Signature Calibrated by: SN: MY41092317 SN: US37390585 SN: US37390585 Name Function Signature Laboratory Technician | DAE4 Secondary Standards | | | In house check: Oct-16 |
| RF generator R&S SMT-06 Network Analyzer HP 8753E SN: 100972 SN: US37390585 18-Oct-01 (in house check Oct-15) In house check: Oct- In house check: Oct- In house check: Oct- In house check Oct-15) Name Function Signature Calibrated by: Laboratory Technician | DAE4 Secondary Standards Power meter EPM-442A | SN: GB37480704 | 07-Oct-15 (No. 217-02222) | In house check: Oct-16 In house check: Oct-16 |
| Network Analyzer HP 8753E SN: US37390585 18-Oct-01 (in house check Oct-15) In house check: Oct- Name Function Signature Calibrated by: Laboratory Technician | DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A | SN: GB37480704 SN: US37292783 | 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) | |
| Calibrated by: Johannes Kurikka Laboratory Technician | DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A | SN: GB37480704 SN: US37292783 SN: MY41092317 | 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) | In house check: Oct-16 |
| god ku | DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 | SN: GB37480704 SN: US37292783 SN: MY41092317 SN: 100972 | 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 15-Jun-15 (in house check Jun-15) | In house check: Oct-16 In house check: Oct-16 |
| | DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 | SN: GB37480704 SN: US37292783 SN: MY41092317 SN: 100972 SN: US37390585 | 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Oct-15) | In house check: Oct-16 In house check: Oct-16 In house check: Oct-16 In house check: Oct-16 |
| Walter Debugge Trackeled Manager 2011 | DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer HP 8753E | SN: GB37480704 SN: US37292783 SN: MY41092317 SN: 100972 SN: US37390585 | 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Oct-15) | In house check: Oct-16 In house check: Oct-16 In house check: Oct-16 In house check: Oct-16 Signature |
| Approved by: Katja Pokovic Technical Manager | DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer HP 8753E | SN: GB37480704 SN: US37292783 SN: MY41092317 SN: 100972 SN: US37390585 | 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Oct-15) | In house check: Oct-16 In house check: Oct-16 In house check: Oct-16 In house check: Oct-16 Signature |

Certificate No: D1750V2-1152_Sep16



Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL

tissue simulating liquid

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

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, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- 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"

Additional Documentation:

e) DASY4/5 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 dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 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 k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

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

| DASY Version | DASY5 | V52.8.8 |
|------------------------------|------------------------|-------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 1750 MHz ± 1 MHz | |
| | | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|-----------------------------------------|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 40.1 | 1.37 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 38.9 ± 6 % | 1.37 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|-------------------------------------------------------|--------------------|--------------------------|
| SAR measured | 250 mW input power | 9.21 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 36.6 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---------------------------------------------------------|--------------------|--------------------------|
| SAR measured | 250 mW input power | 4.88 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 19.4 W/kg ± 16.5 % (k=2) |

Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|-----------------------------------------|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 53.4 | 1.49 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 54.2 ± 6 % | 1.49 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | | |

SAR result with Body TSL

| SAR averaged over 1 cm³ (1 g) of Body TSL | Condition | |
|-------------------------------------------|--------------------|--------------------------|
| SAR measured | 250 mW input power | 9.02 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 36.2 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Body TSL | condition | |
|---------------------------------------------------------|--------------------|--------------------------|
| SAR measured | 250 mW input power | 4.86 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 19.5 W/kg ± 16.5 % (k=2) |

Certificate No: D1750V2-1152_Sep16