

**TA Technology (Shanghai) Co., Ltd.**  
**Test Report**

Report No. RXA1208-0754SAR01

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**ANNEX E: D450V3 Dipole Calibration Certificate**

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



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

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

Accreditation No.: **SCS 108**

Client **TA (Auden)**

Certificate No: **D450V3-1065\_Nov10**

**CALIBRATION CERTIFICATE**

Object **D450V3 - SN: 1065**

Calibration procedure(s) **QA CAL-15.v5**  
Calibration Procedure for dipole validation kits below 800 MHz

Calibration date: **November 09, 2010**

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  $(22 \pm 3)^\circ\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards           | ID #               | Cal Date (Calibrated by, Certificate No.) | Scheduled Calibration |
|-----------------------------|--------------------|---|-----------------------|
| Power meter E4419B          | GB41293874         | 1-Apr-10 (No. 217-01030)                  | Apr-11                |
| Power sensor E4412A         | MY41495277         | 1-Apr-10 (No. 217-01030)                  | Apr-11                |
| Power sensor E4412A         | MY41498087         | 1-Apr-10 (No. 217-01030)                  | Apr-11                |
| Reference 3 dB Attenuator   | SN: S5054 (3c)     | 31-Mar-10 (No. 217-01026)                 | Mar-11                |
| Reference 20 dB Attenuator  | SN: S5086 (20b)    | 31-Mar-10 (No. 217-01028)                 | Mar-11                |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 31-Mar-10 (No. 217-01029)                 | Mar-11                |
| Reference Probe ET3DV6 (LF) | SN: 1507           | 03-Jul-10 (No. ET3-1507_Jul10)            | Jul-11                |
| DAE4                        | SN: 654            | 04-May-10 (No. DAE4-654_May10)            | May-11                |

| Secondary Standards       | ID #             | Check Date (in house)             | Scheduled Check        |
|---------------------------|------------------|-----------------------------------|------------------------|
| RF generator HP 8648C     | US3642U01700     | 04-Aug-99 (in house check Oct-10) | In house check: Oct-11 |
| Network Analyzer HP 8753E | US37390585 S4206 | 18-Oct-01 (in house check Oct-10) | In house check: Oct-11 |

| Calibrated by: | Name           | Function              | Signature |
|----------------|----------------|-----------------------|-----------|
|                | Jeton Kastrati | Laboratory Technician |           |

| Approved by: | Name          | Function          | Signature |
|--------------|---------------|-------------------|-----------|
|              | Katja Pokovic | Technical Manager |           |

Issued: November 9, 2010

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Accreditation No.: **SCS 108**

### Glossary:

|      |                                 |
|------|---------------------------------|
| TSL  | tissue simulating liquid        |
| ConF | sensitivity in TSL / NORM x,y,z |
| N/A  | not applicable or not measured  |

### Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- 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
- Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

### Additional Documentation:

- DASY4 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.

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### Measurement Conditions

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

|                              |                        |                                 |
|------------------------------|------------------------|---------------------------------|
| DASY Version                 | DASY5                  | V5.2                            |
| Extrapolation                | Advanced Extrapolation |                                 |
| Phantom                      | ELI4 Flat Phantom      | Shell thickness: $2 \pm 0.2$ mm |
| Distance Dipole Center - TSL | 15 mm                  | with Spacer                     |
| Area Scan Resolution         | dx, dy = 15 mm         |                                 |
| Zoom Scan Resolution         | dx, dy, dz = 5 mm      |                                 |
| Frequency                    | 450 MHz $\pm 1$ MHz    |                                 |

### Head TSL parameters

The following parameters and calculations were applied.

|                                  | Temperature         | Permittivity   | Conductivity         |
|----------------------------------|---------------------|----------------|----------------------|
| Nominal Head TSL parameters      | 22.0 °C             | 43.5           | 0.87 mho/m           |
| Measured Head TSL parameters     | (22.0 $\pm$ 0.2) °C | 44.2 $\pm$ 6 % | 0.86 mho/m $\pm$ 6 % |
| Head TSL temperature during test | (22.0 $\pm$ 0.2) °C | ---            | ---                  |

### SAR result with Head TSL

| SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL | condition          |                                |
|---|--------------------|--------------------------------|
| SAR measured  | 398 mW input power | 1.87 mW / g                    |
| SAR normalized  | normalized to 1W   | 4.70 mW / g                    |
| SAR for nominal Head TSL parameters                   | normalized to 1W   | 4.76 mW / g $\pm$ 18.1 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL | condition          |                                |
|---|--------------------|--------------------------------|
| SAR measured  | 398 mW input power | 1.25 mW / g                    |
| SAR normalized  | normalized to 1W   | 3.14 mW / g                    |
| SAR for nominal Head TSL parameters                     | normalized to 1W   | 3.17 mW / g $\pm$ 17.6 % (k=2) |

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### Body TSL parameters

The following parameters and calculations were applied.

|                                  | Temperature     | Permittivity | Conductivity     |
|----------------------------------|-----------------|--------------|------------------|
| Nominal Body TSL parameters      | 22.0 °C         | 56.7         | 0.94 mho/m       |
| Measured Body TSL parameters     | (22.0 ± 0.2) °C | 54.1 ± 6 %   | 0.90 mho/m ± 6 % |
| Body TSL temperature during test | (22.0 ± 0.2) °C | ---          | ---              |

### SAR result with Body TSL

| SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL | condition          |                            |
|---|--------------------|----------------------------|
| SAR measured  | 398 mW input power | 1.77 mW / g                |
| SAR normalized  | normalized to 1W   | 4.37 mW / g                |
| SAR for nominal Body TSL parameters                   | normalized to 1W   | 4.51 mW / g ± 18.1 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL | condition          |                            |
|---|--------------------|----------------------------|
| SAR measured  | 398 mW input power | 1.18 mW / g                |
| SAR normalized  | normalized to 1W   | 2.94 mW / g                |
| SAR for nominal Body TSL parameters                     | normalized to 1W   | 3.03 mW / g ± 17.6 % (k=2) |

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### Appendix

#### Antenna Parameters with Head TSL

|                                      |                               |
|--------------------------------------|-------------------------------|
| Impedance, transformed to feed point | 59.2 $\Omega$ - 4.9 $j\Omega$ |
| Return Loss                          | - 20.5 dB                     |

#### Antenna Parameters with Body TSL

|                                      |                               |
|--------------------------------------|-------------------------------|
| Impedance, transformed to feed point | 56.5 $\Omega$ - 7.9 $j\Omega$ |
| Return Loss                          | - 20.4 dB                     |

#### General Antenna Parameters and Design

|                                  |          |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.354 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.  
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 | July 16, 2010 |

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### DASY5 Validation Report for Head TSL

Date/Time: 09.11.2010 10:36:58

Test Laboratory: The name of your organization

**DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1065**

Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1

Medium: HSL450

Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.86$  mho/m;  $\epsilon_r = 44.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ET3DV6 - SN1507 (LF); ConvF(6.66, 6.66, 6.66); Calibrated: 03.07.2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 04.05.2010
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1003
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Pin=398mW /d=15mm /Area Scan (41x111x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.99 mW/g

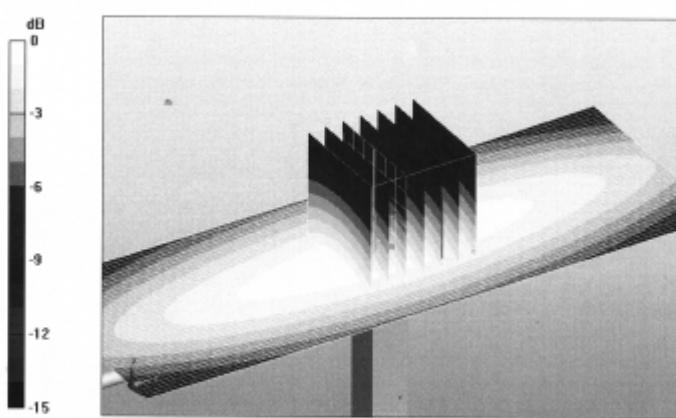
**Pin=398mW /d=15mm /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.3 V/m; Power Drift = -0.00664 dB

Peak SAR (extrapolated) = 2.81 W/kg

**SAR(1 g) = 1.87 mW/g; SAR(10 g) = 1.25 mW/g**

Maximum value of SAR (measured) = 2.01 mW/g



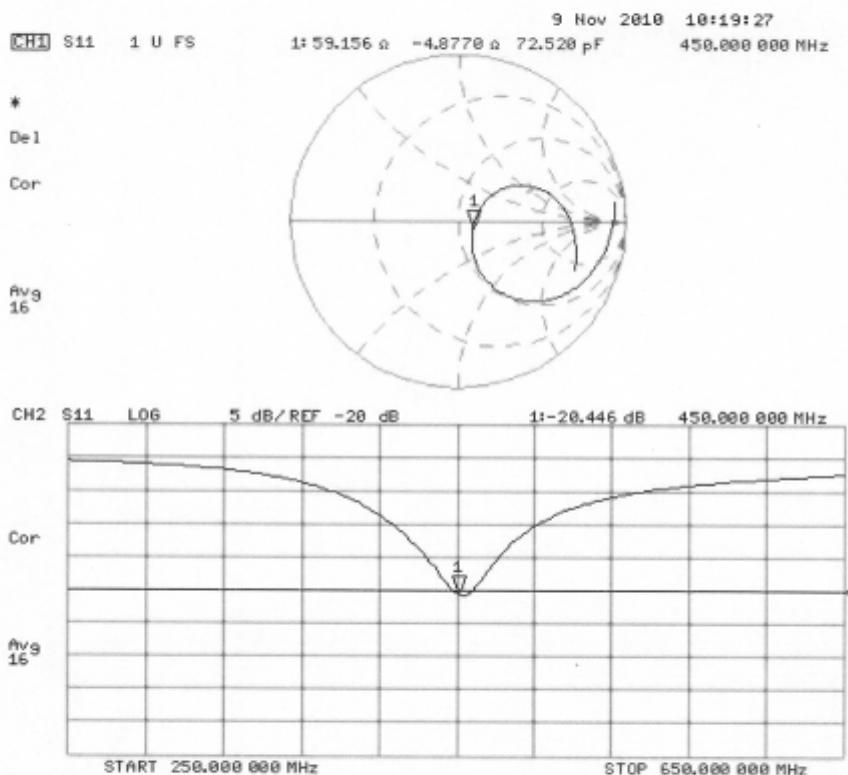
0 dB = 2.01mW/g

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**Impedance Measurement Plot for Head TSL**



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### DASY5 Validation Report for Body TSL

Date/Time: 09.11.2010 13:52:55

Test Laboratory: The name of your organization

**DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1065**

Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1

Medium: MSL450

Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.9$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ET3DV6 - SN1507 (LF); ConvF(7.11, 7.11, 7.11); Calibrated: 03.07.2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 04.05.2010
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1003
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Pin=398mW /d=15mm /Area Scan (61x201x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.89 mW/g

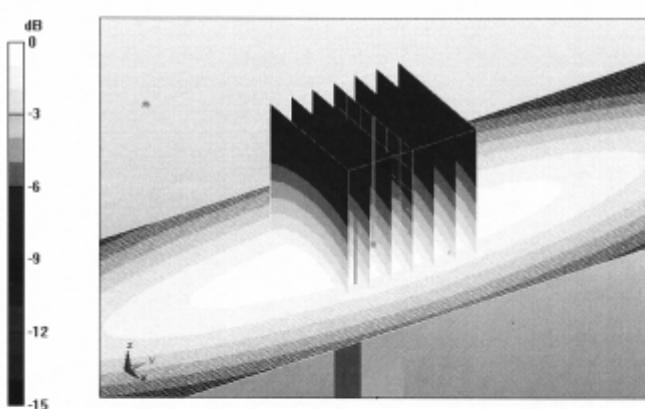
**Pin=398mW /d=15mm, /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.4 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 2.7 W/kg

**SAR(1 g) = 1.77 mW/g; SAR(10 g) = 1.18 mW/g**

Maximum value of SAR (measured) = 1.89 mW/g



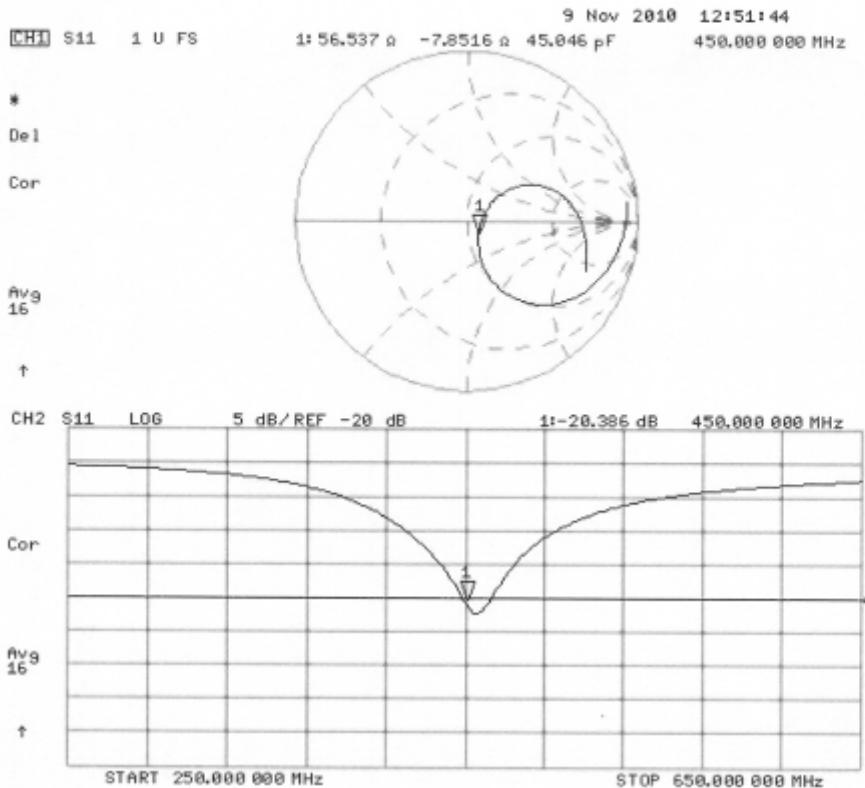
0 dB = 1.89mW/g

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**Impedance Measurement Plot for Body TSL**



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### ANNEX F: DAE4 Calibration Certificate

**Calibration Laboratory of**  
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Accreditation No.: **SCS 108**

Client **TA Shanghai (Auden)**

Certificate No: **DAE4-1317\_Jan12**

#### CALIBRATION CERTIFICATE

Object **DAE4 - SD 000 D04 BJ - SN: 1317**

Calibration procedure(s) **QA CAL-06.v24**  
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: **January 23, 2012**

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 ( $22 \pm 3$ )°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards             | ID #               | Cal Date (Certificate No.) | Scheduled Calibration  |
|-------------------------------|--------------------|----------------------------|------------------------|
| Keithley Multimeter Type 2001 | SN: 0810278        | 28-Sep-11 (No:11450)       | Sep-12                 |
| Secondary Standards           | ID #               | Check Date (in house)      | Scheduled Check        |
| Calibrator Box V2.1           | SE UWS 053 AA 1001 | 05-Jan-12 (in house check) | In house check: Jan-13 |

Calibrated by: Name **Dominique Steffen** Function **Technician** Signature

Approved by: Name **Fin Bomholt** Function **R&D Director** Signature

Issued: January 23, 2012

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Accreditation No.: SCS 108

### Glossary

|                 |   |
|-----------------|---|
| DAE             | data acquisition electronics  |
| Connector angle | information used in DASY system to align probe sensor X to the robot coordinate system. |

### Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement*: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle*: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - *DC Voltage Measurement Linearity*: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - *Common mode sensitivity*: Influence of a positive or negative common mode voltage on the differential measurement.
  - *Channel separation*: Influence of a voltage on the neighbor channels not subject to an input voltage.
  - *AD Converter Values with inputs shorted*: Values on the internal AD converter corresponding to zero input voltage
  - *Input Offset Measurement*: Output voltage and statistical results over a large number of zero voltage measurements.
  - *Input Offset Current*: Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - *Input resistance*: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - *Low Battery Alarm Voltage*: Typical value for information. Below this voltage, a battery alarm signal is generated.
  - *Power consumption*: Typical value for information. Supply currents in various operating modes.

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### DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB =  $6.1\mu\text{V}$ , full range =  $-100...+300\text{ mV}$

Low Range: 1LSB =  $61\text{nV}$ , full range =  $-1.....+3\text{mV}$

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X                                | Y                                | Z                                |
|---------------------|----------------------------------|----------------------------------|----------------------------------|
| High Range          | $404.064 \pm 0.1\% (\text{k}=2)$ | $404.056 \pm 0.1\% (\text{k}=2)$ | $403.955 \pm 0.1\% (\text{k}=2)$ |
| Low Range           | $3.98762 \pm 0.7\% (\text{k}=2)$ | $3.98737 \pm 0.7\% (\text{k}=2)$ | $3.98343 \pm 0.7\% (\text{k}=2)$ |

### Connector Angle

|   |                           |
|---|---------------------------|
| Connector Angle to be used in DASY system | $117.0^\circ \pm 1^\circ$ |
|---|---------------------------|

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**Appendix**

**1. DC Voltage Linearity**

| High Range        | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 199992.18    | -1.75           | -0.00     |
| Channel X + Input | 20001.35     | 0.46            | 0.00      |
| Channel X - Input | -19997.31    | 1.96            | -0.01     |
| Channel Y + Input | 199993.18    | -1.24           | -0.00     |
| Channel Y + Input | 20001.40     | 0.60            | 0.00      |
| Channel Y - Input | -20000.04    | -0.70           | 0.00      |
| Channel Z + Input | 199991.58    | -2.43           | -0.00     |
| Channel Z + Input | 19999.62     | -1.14           | -0.01     |
| Channel Z - Input | -20001.31    | -1.83           | 0.01      |

| Low Range         | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 2000.74      | -0.89           | -0.04     |
| Channel X + Input | 202.18       | -0.01           | -0.01     |
| Channel X - Input | -197.58      | 0.36            | -0.18     |
| Channel Y + Input | 2000.34      | -1.20           | -0.06     |
| Channel Y + Input | 199.67       | -2.39           | -1.18     |
| Channel Y - Input | -197.64      | 0.32            | -0.16     |
| Channel Z + Input | 2000.69      | -0.78           | -0.04     |
| Channel Z + Input | 200.84       | -1.16           | -0.57     |
| Channel Z - Input | -198.45      | -0.47           | 0.24      |

**2. Common mode sensitivity**

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | Common mode<br>Input Voltage (mV) | High Range<br>Average Reading (µV) | Low Range<br>Average Reading (µV) |
|-----------|-----------------------------------|------------------------------------|-----------------------------------|
| Channel X | 200                               | -23.40                             | -24.98                            |
|           | -200                              | 28.01                              | 26.12                             |
| Channel Y | 200                               | -2.57                              | -2.75                             |
|           | -200                              | 1.67                               | 1.31                              |
| Channel Z | 200                               | -11.92                             | -11.43                            |
|           | -200                              | 9.80                               | 9.45                              |

**3. Channel separation**

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | Input Voltage (mV) | Channel X (µV) | Channel Y (µV) | Channel Z (µV) |
|-----------|--------------------|----------------|----------------|----------------|
| Channel X | 200                | -              | -2.15          | -4.41          |
| Channel Y | 200                | 7.18           | -              | -2.47          |
| Channel Z | 200                | 7.44           | 5.46           | -              |

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### 4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 16081            | 17027           |
| Channel Y | 16103            | 16170           |
| Channel Z | 16221            | 16651           |

### 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input  $10M\Omega$

|           | Average ( $\mu$ V) | min. Offset ( $\mu$ V) | max. Offset ( $\mu$ V) | Std. Deviation ( $\mu$ V) |
|-----------|--------------------|------------------------|------------------------|---------------------------|
| Channel X | -0.45              | -1.32                  | 0.40                   | 0.32                      |
| Channel Y | -2.63              | -3.99                  | -1.68                  | 0.42                      |
| Channel Z | -0.67              | -3.07                  | 1.36                   | 0.50                      |

### 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

### 7. Input Resistance (Typical values for information)

|           | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200            | 200              |
| Channel Y | 200            | 200              |
| Channel Z | 200            | 200              |

### 8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |
|----------------|-------------------|
| Supply (+ Vcc) | +7.9              |
| Supply (- Vcc) | -7.6              |

### 9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01             | +6            | +14               |
| Supply (- Vcc) | -0.01             | -8            | -9                |

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**ANNEX G: The EUT Appearances and Test Configuration**



Front



Back

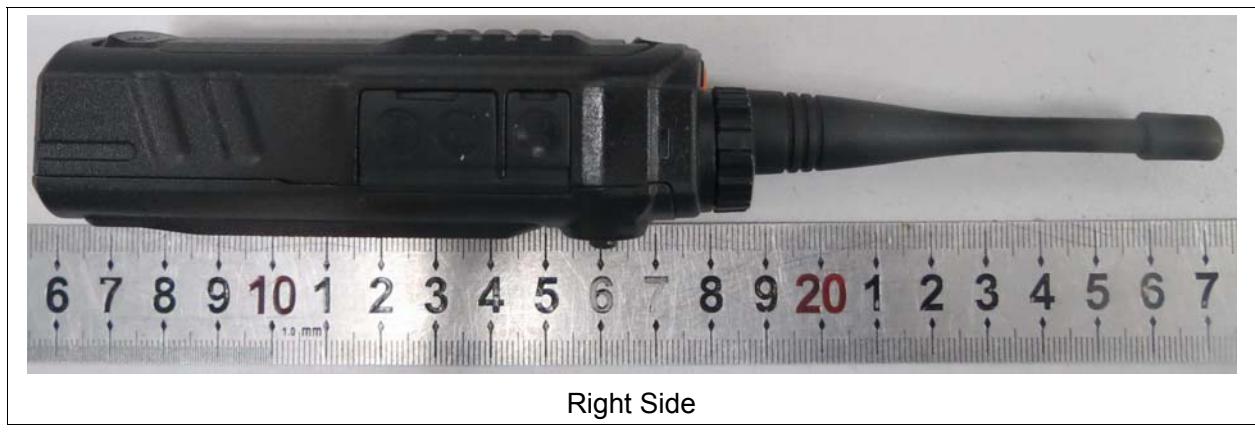


Left Side

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Picture 3-1: EUT



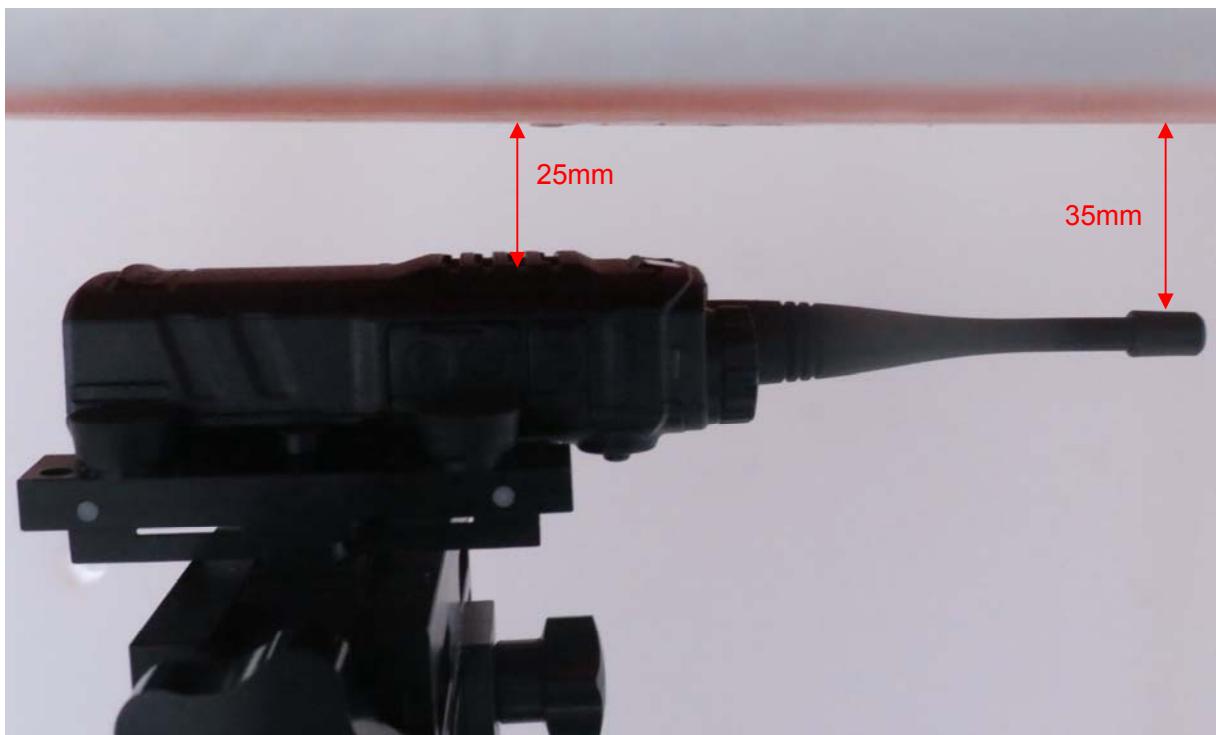
Picture 3-2: Battery

Picture 3: Constituents of the sample

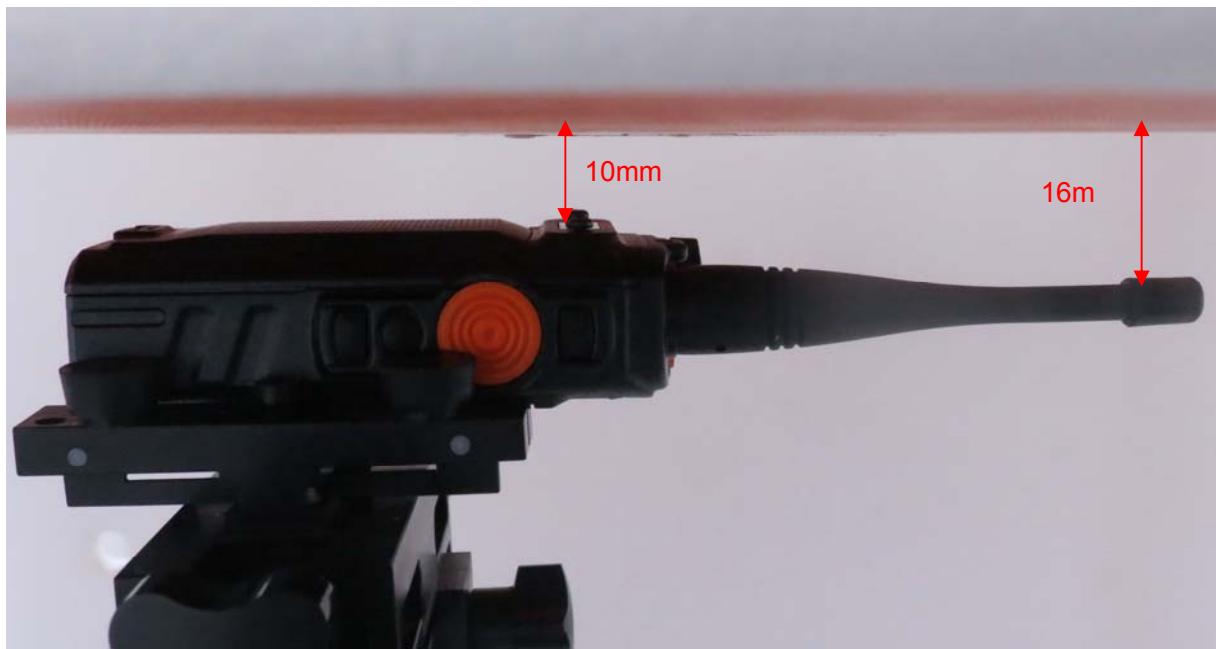
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Picture 4: Face-held, the front of the EUT towards phantom, the distance from EUT Antenna to the bottom of the Phantom is 35mm



Picture 5: Body-worn, the front of the EUT towards ground, the distance from the EUT Antenna to the bottom of the Phantom is 16mm