

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230200037101

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Appendix C for SZCR2302000371AT

Calibration certificate

1. Dipole
D900V2 - SN 1d045(2022/06/07)
D1800V2 - SN 254(2022/06/16)
D2450V2 - SN 955(2022/06/06)
2. DAE
DAE4 - SN 760(2022/06/06)
3. Probe
EX3DV4 - SN 3836 (2022/06/27)



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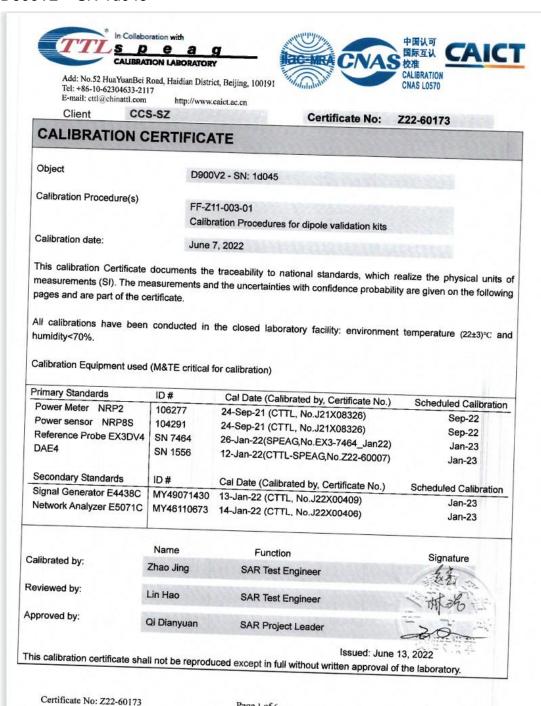
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Dipole

D900V2 - SN 1d045





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Glossary:

ConvF N/A

tissue simulating liquid sensitivity in TSL / NORMx,y,z 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-mounted 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) 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
- 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 DASY52 52,10.4 Extrapolation Advanced Extrapolation Phantom Triple Flat Phantom 5.1C Distance Dipole Center - TSL with Spacer Zoom Scan Resolution dx, dy, dz = 5 mmFrequency 900 MHz ± 1 MHz

Head TSL parameters

The following parameters and calculations were applied

Temperature	Permittivity	Conductivity
22.0 °C	41.5	0.97 mho/m
(22.0 ± 0.2) °C	42.1 ± 6 %	0.98 mho/m ± 6 %
<1.0 °C		0.36 HINO/M ± 6 %
	22.0 °C (22.0 ± 0.2) °C	22.0 °C 41.5 (22.0 ± 0.2) °C 42.1 ± 6 %

SAR result with Head TSI

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	
SAR for nominal Head TSL parameters	normalized to 1W	2.76 W/kg
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	11.0 W/kg ± 18.8 % (k=2
SAR measured	250 mW input power	
SAR for nominal Head TSL parameters		1.78 W/kg
OAK for nominal Head TSL parameters	normalized to 1W	7.09 W/kg ± 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	10.00
Return Loss	48.3Ω- 5.98jΩ
	- 24.0 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	
construction belay (one direction)	1.310 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semingid 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 feed-point may be damaged.

Additional EUT Data

Manufactural	
Manufactured by	
	SPEAG

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Date: 2022-06-07

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DASY5 Validation Report for Head TSL

Test Laboratory: CTTL, Beijing, China DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN: 1d045

Communication System: UID 0, CW; Frequency: 900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 900 MHz; σ = 0.98 S/m; ϵ_r = 42.05; ρ = 1000 kg/m³ Phantom section: Right Section

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

Probe: EX3DV4 - SN7464; ConvF(9.72, 9.72, 9.72) @ 900 MHz; Calibrated:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1556; Calibrated: 2022-01-12

Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Reference Value = 60.27 V/m; Power Drift = -0.01 dB

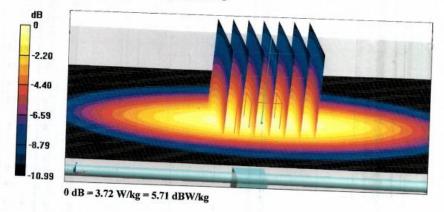
Peak SAR (extrapolated) = 4.20 W/kg

SAR(1 g) = 2.76 W/kg; SAR(10 g) = 1.78 W/kg

Smallest distance from peaks to all points 3 dB below = 16.6 mm

Ratio of SAR at M2 to SAR at M1 = 65.6%

Maximum value of SAR (measured) = 3.72 W/kg



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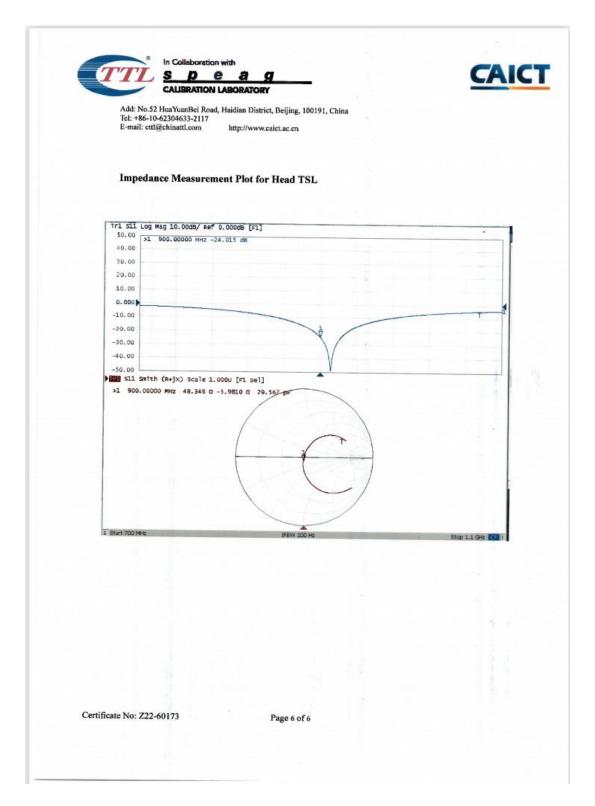
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D1800V2 - SN 254





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Glossary:

TSL ConvF N/A

tissue simulating liquid sensitivity in TSL / NORMx,y,z 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-mounted 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) 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	DASY52	50.40.4
Extrapolation	Advanced Extrapolation	52.10.4
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	will Spacer
Frequency	1800 MHz ± 1 MHz	

Head TSL parameters
The following parameters and calculations were applied.

Temperature	Permittivity	Conductivity
22.0 °C	40.0	1.40 mho/m
(22.0 ± 0.2) °C	41.0 ± 6 %	1.37 mho/m ± 6 %
<1.0 °C		1.37 IMIO/III ± 6 %
	22.0 °C (22.0 ± 0.2) °C	22.0 °C 40.0 (22.0 ± 0.2) °C 41.0 ± 6 %

SAR result with Head TSL

Condition	1
	9.54 W/kg
Condition	38.9 W/kg ± 18.8 % (k=2)
250 mW input power	5 04 W/A
	5.01 W/kg 20.3 W/kg ± 18.7 % (k=2)
	Condition 250 mW input power normalized to 1W Condition 250 mW input power normalized to 1W

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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.2Ω- 7.26 Ω
Return Loss	· · · · · · · · · · · · · · · · · · ·
	- 22.8dB

General Antenna Parameters and Design

Electrical Delay (one direction)	4446
	1.119 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can

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 or the dipoles, small end caps are added to the dipole arms in order to improve maturing 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 feed-point may be damaged.

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Date: 2022-06-16

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http://www.caict.ac.cn

DASY5 Validation Report for Head TSL

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 254 Communication System: UID 0, CW; Frequency: 1800 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1800 MHz; $\sigma = 1.369$ S/m; $\epsilon_r = 41.03$; $\rho = 1000$ kg/m³ Phantom section: Right Section

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

- Probe: EX3DV4 SN7464; ConvF(8.2, 8.2, 8.2) @ 1800 MHz; Calibrated:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2022-01-12
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Reference Value = 99.33 V/m; Power Drift = 0.04 dB

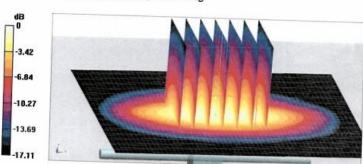
Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 9.54 W/kg; SAR(10 g) = 5.01 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg = 11.70 dBW/kg

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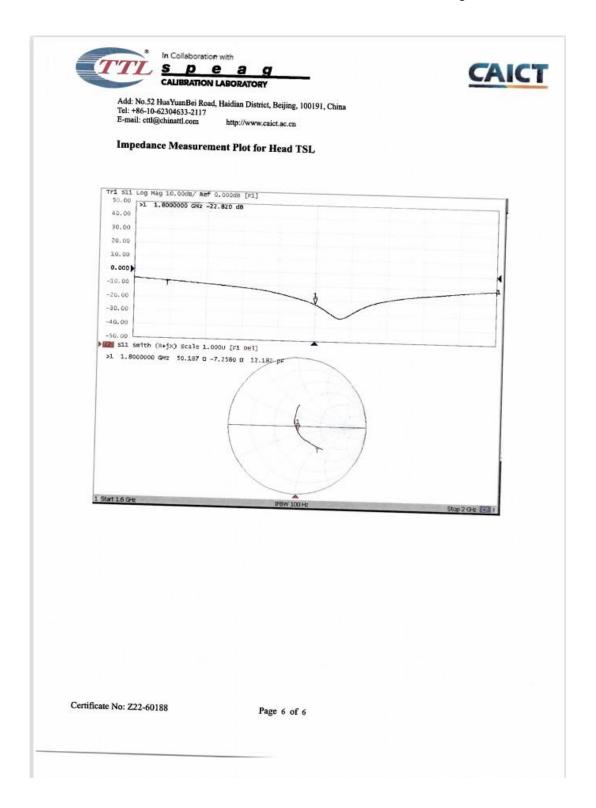
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D2450V2 - SN 955



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CCS-SZ Certificate No: Z22-60175

CALIBRATION CERTIFICATE

D2450V2 - SN: 955

Calibration Procedure(s)

FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date:

June 6, 2022

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 (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	24-Sep-21 (CTTL, No.J21X08326)	Sep-22
Power sensor NRP8S	104291	24-Sep-21 (CTTL, No.J21X08326)	Sep-22
Reference Probe EX3DV4	SN 7464	26-Jan-22(SPEAG, No.EX3-7464_Jan22)	Jan-23
DAE4	SN 1556	12-Jan-22(CTTL-SPEAG,No.Z22-60007)	Jan-23
Secondary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	13-Jan-22 (CTTL, No. J22X00409)	Jan-23
Network Analyzer E5071C	MY46110673	14-Jan-22 (CTTL, No.J22X00408)	Jan-23

Name Function Calibrated by: Zhao Jing SAR Test Engineer Reviewed by: Lin Hao

SAR Test Engineer Approved by: Qi Dianyuan

SAR Project Leader Issued: June 13, 2022

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

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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) 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-mounted 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) 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
- 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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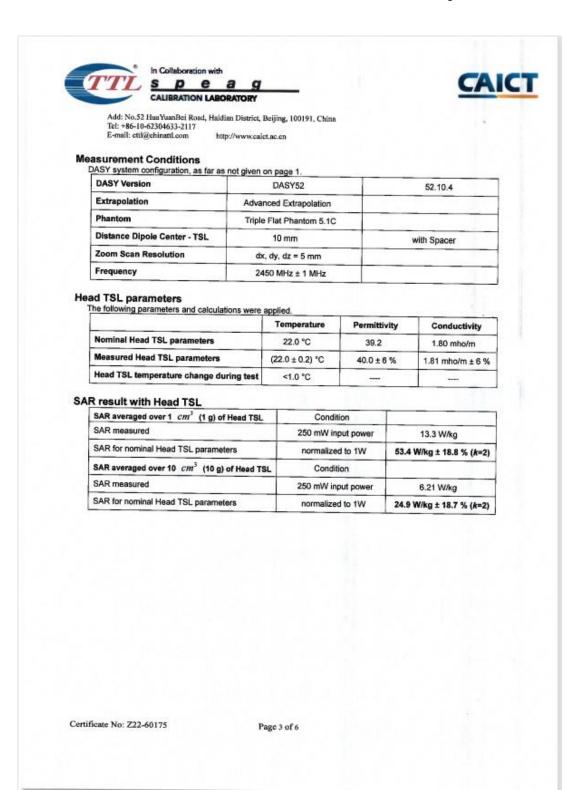
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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.8Ω+ 2.96jΩ
Return Loss	- 28.1dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.071 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can

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 feed-point may be damaged.

Additional EUT Data

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DASY5 Validation Report for Head TSL

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 955

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; σ = 1.806 S/m; ϵ_r = 40.03; ρ = 1000 kg/m³ Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7464; ConvF(7.77, 7.77, 7.77) @ 2450 MHz; Calibrated:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2022-01-12
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Reference Value = 99.82 V/m; Power Drift = -0.05 dB

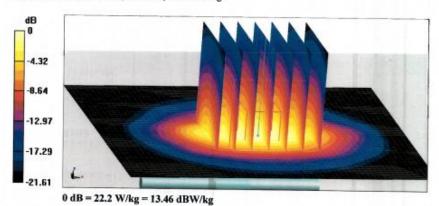
Peak SAR (extrapolated) = 27.2 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.21 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 49.5%

Maximum value of SAR (measured) = 22.2 W/kg



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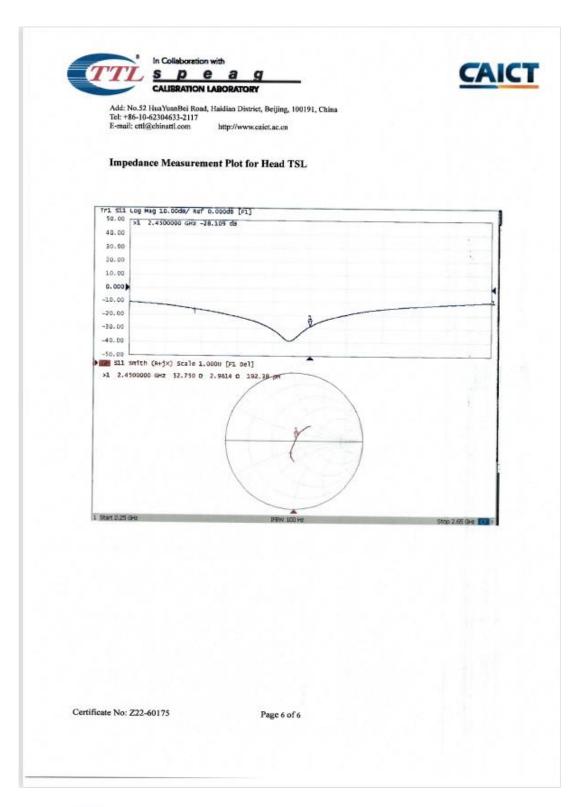
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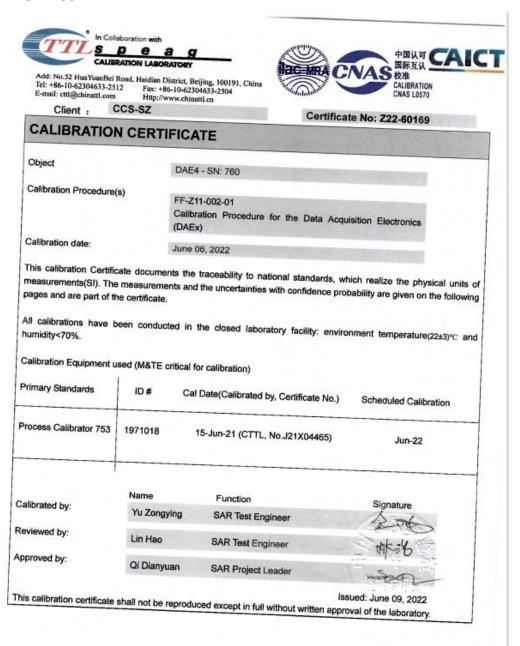
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2. DAE

DAE4 - SN 760



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Glossary:

DAE Connector angle data acquisition electronics

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 report provide only calibration results for DAE, it does not contain other performance test results.

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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1μV , 61nV , full range = -100...+300 mV Low Range: 1LSB = full range = Low Range: 1LSB = 61nV , full range = -1......+3mV DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	x	Υ	Z
High Range	403.805 ± 0.15% (k=2)	405.067 ± 0.15% (k=2)	405.367 ± 0.15% (k=2)
Low Range	3.97876 ± 0.7% (k=2)	3.98249 ± 0.7% (k=2)	3.96267 ± 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	250° ± 1 °

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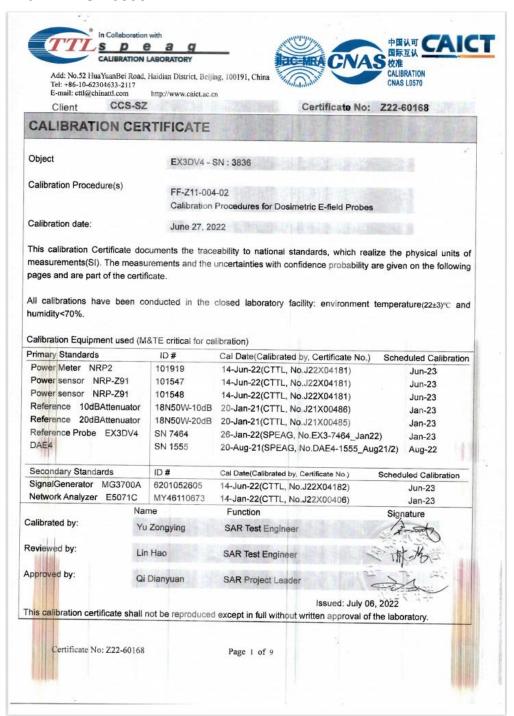
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3. Probe

EX3DV4 - SN 3836





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Glossarv:

TSI 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 modulation dependent linearization parameters

Polarization Φ Φ rotation around probe axis

Polarization θ θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i

θ=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

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 θ=0 (f≤900MHz in TEM-cell; f>1800MHz: waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E²-field uncertainty inside TSL (see below ConvF).

 $NORM(f)x, y, z = NORMx, y, z^*$ 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.

DCPx,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.

Ax,y,z; Bx,y,z; Cx,y,z; VRx,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≤800MHz) and inside waveguide using analytical field distributions based on power measurements for f >800MHz. 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±50MHz to±100MHz.

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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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3836

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
$Norm(\mu V/(V/m)^2)^A$	0.41	0.47	0.45	±10.0%
DCP(mV) ^B	92.8	102.2	100.3	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Unc ^E (k=2)
0 CW	CW	X	0.0	0.0	1.0	0.00	138.2	±2.7%
			Υ	0.0	0.0	1.0		157.7
		Z	0.0	0.0	1.0		147.9	

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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A The uncertainties of Norm X, Y, Z do not affect the E²-field uncertainty inside TSL (see Page 4).

B Numerical linearization parameter: uncertainty not required.

EUncertainly is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3836

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^C	Relative Permittivity F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct.
750	41.9	0.89	9.28	9.28	9.28	0.16	1.34	±12.1%
835	41.5	0.90	8.99	8.99	8.99	0.22	1.19	±12.1%
1750	40.1	1.37	8.02	8.02	8.02	0.28	0.95	±12.1%
1900	40.0	1.40	7.65	7.65	7.65	0.30	0.92	±12.1%
2100	39.8	1.49	7.80	7.80	7.80	0.22	1.15	±12.1%
2300	39.5	1.67	7.57	7.57	7.57	0.65	0.68	±12.1%
2450	39.2	1.80	7.27	7.27	7.27	0.67	0.67	±12.1%
2600	39.0	1.96	6.99	6.99	6.99	0.58	0.75	±12.1%
3300	38.2	2.71	6.84	6.84	6.84	0.40	0.95	±13.3%
3500	37.9	2.91	6.60	6.60	6.60	0.43	0.94	±13.3%
3700	37.7	3.12	6.32	6.32	6.32	0.40	1.03	±13.3%
3900	37.5	3.32	6.36	6.36	6.36	0.35	1.35	±13.3%
4100	37.2	3.53	6.30	6.30	6.30	0.40	1.15	±13.3%
5250	35.9	4.71	5.26	5.26	5.26	0.45	1.30	±13.3%
5600	35.5	5.07	4.70	4.70	4.70	0.50	1.28	±13.3%
5750	35.4	5.22	4.78	4.78	4.78	0.45	1.40	±13.3%

c Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. 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 ± 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 ± 110 MHz.

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FAt frequency below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

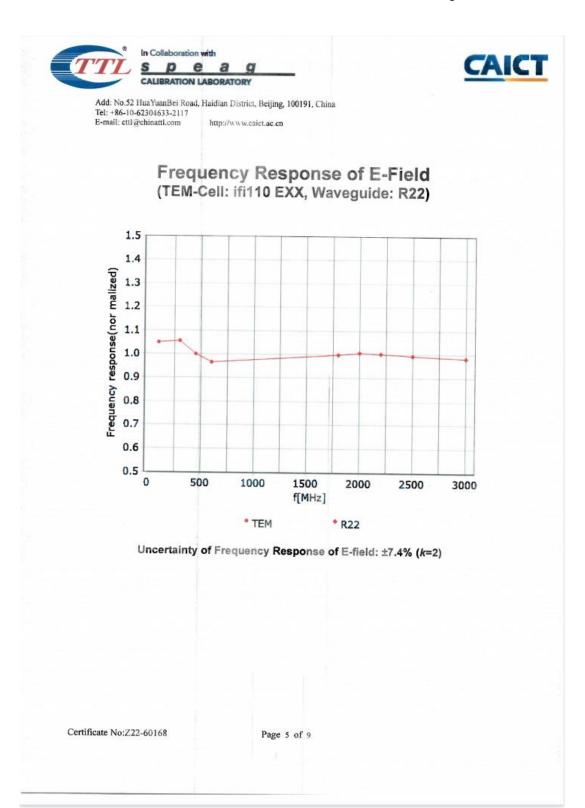
GAlpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



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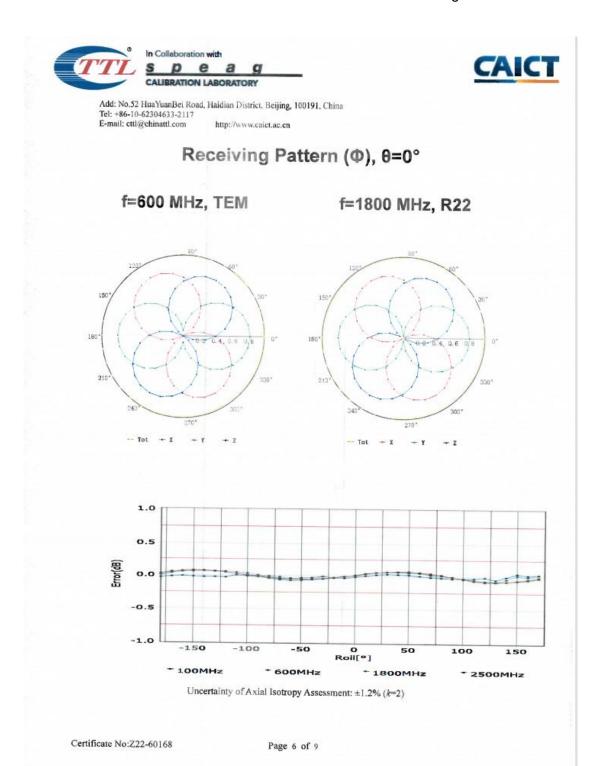
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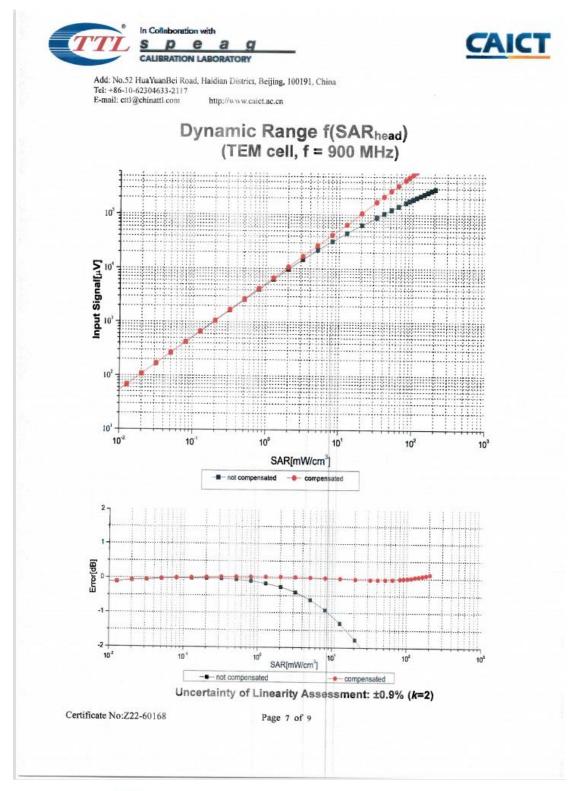
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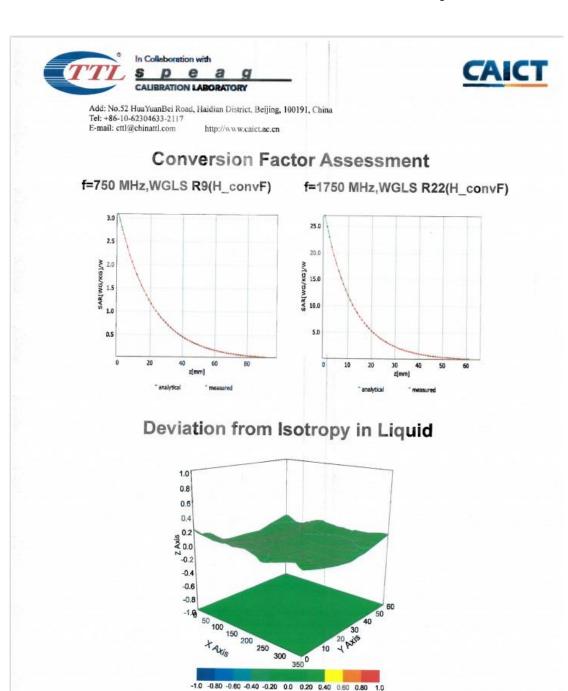
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Uncertainty of Spherical Isotropy Assessment: ±3.2% (k=2)



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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3836

Other Probe Parameters

Sensor Arrangement	Triangular	
Connector Angle (°)	46.5	
Mechanical Surface Detection Mode	enabled	
Optical Surface Detection Mode	disable	
Probe Overall Length	337mm	
Probe Body Diameter	10mn	
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	

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