

Page: 1 of 26

# Appendix C for KSCR230400061801

# **Calibration Certificate**

Object	Apply	No	Model	SN	Calibration Date	Due date of calibration
		1	CLA150	4025	2021/04/26	2024/04/25
		2	D450V3	1103	2021/04/21	2024/04/20
		3	D750V3	1188	2022/03/29	2025/03/28
	$\boxtimes$	4	D835V2	4d114	2022/03/31	2025/03/30
	$\boxtimes$	5	D900V2	1d079	2022/06/07	2025/06/06
D: 1	$\boxtimes$	6	D1800V2	2d170	2022/03/31	2025/03/30
Dipole		7	D1900V2	5d136	2022/06/07	2025/06/06
	$\boxtimes$	8	D2000V2	1041	2022/06/06	2025/06/05
	$\boxtimes$	9	D2300V2	1096	2022/03/31	2025/03/30
	$\boxtimes$	10	D2450V2	817	2022/04/01	2025/03/31
	$\boxtimes$	11	D2600V2	1158	2022/03/31	2025/03/30
	$\boxtimes$	12	D5GHzV2	1095	2022/06/01	2025/05/31
DAE	$\boxtimes$	13	DAE4	910	2022/07/14	2023/07/13
Probe	$\boxtimes$	14	EX3DV4	7767	2022/10/28	2023/10/27



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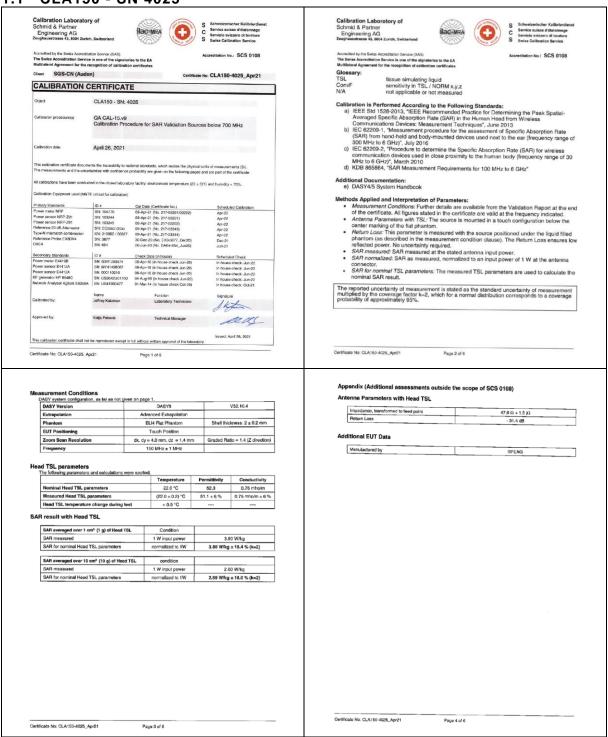
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### 1 Dipole

### 1.1 CLA150 - SN 4025





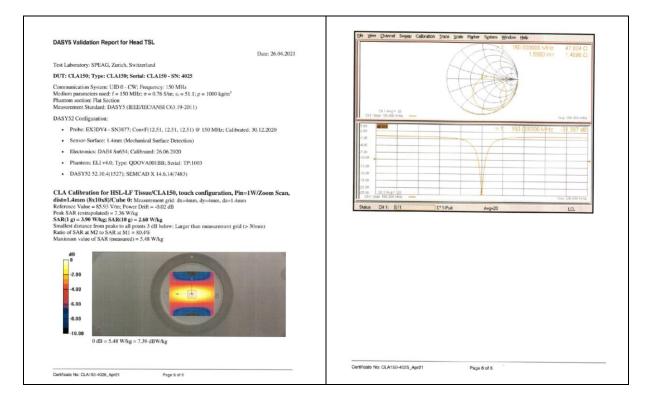
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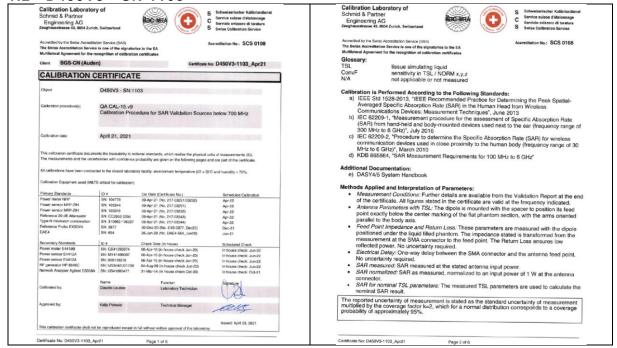
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### 1.2 D450V3 - SN 1103





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# asurement Conditions DASY system configuration, as far as not given on page 1. DASY5 Shell thickness: 2 ± 0.2 mm Temperature Permittivity Conductivity 22.0 °C 43.5 0.87 mho/m Nominal Head TSL parameters 22.0 °C 43.5 0.87 mho/m (22.0 ± 0.2) °C 43.1 ± 6 % 0.87 mho/m ± 6 % SAR averaged over 1 cm3 (1 g) of Head TSL SAR measured SAR for nominal Head TSL parameters normalized to 1W 4,55 W/kg ± 18,1 % (k=2) SAR averaged over 10 cm<sup>3</sup> (10 g) of Head TSL

Appendix (Additional assessments outside the scope of SCS 0108) Antenna Parameters with Head TSL Impedance, transformed to feed point Return Loss General Antenna Parameters and Design Electrical Delay (one direction) 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 semisigal conditionable. The center outsides of the fleeting with the execution of the conditionable of the center outsides of the fleeting their interest consistent of the dipoles, until ord of second and the dipole, the antition is therefore short-divisible for DC-signish. On some of the dipoles, until ord of see addition to the dipole arms in order to improve matching when honded eccornicy to the propriet on surphittent of "Massurement Conditions" paragraph. The SAR data are not affected by this charge. The overall apply length is self. No excessive force mask the applied to the dipole arms, because they might bend or the soldward connections near the loopole through a charged. Additional EUT Data SPEAG

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Date: 21.04.2021

#### DASY5 Validation Report for Head TSL

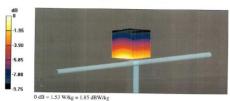
### DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1103

Communication System: UID 0 - CW; Frequency: 450 MHz Medium parameters used: f=450 MHz,  $\alpha=0.87$  S/m;  $\epsilon_r=43.1$ ;  $\rho=1000$  kg/m³ Phanton section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

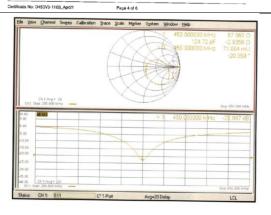
#### DASY52 Configuration:

- Probe: EX3DV4 SN3877; ConvF(10.64, 10.64, 10.64) @ 450 MHz; Calibrated: 30.12.2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 26.06.2020
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1003
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Dipole Calibration for Head Tissue/d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid the-5mm, dys-5mm, dxs-5mm, dxs-5mm, dxs-5mm, dxs-5mm (3x8) = 0.08 dB Pole SAR (extrapolated) = 1.76 WAg Pole SAR (extrapolated) = 1.76 WAg SAR(1 g) = 1.41 WAgg SAR(1 g) = 0.45 WAgg SAR(1



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### 1.3 D750V3 - SN 1188





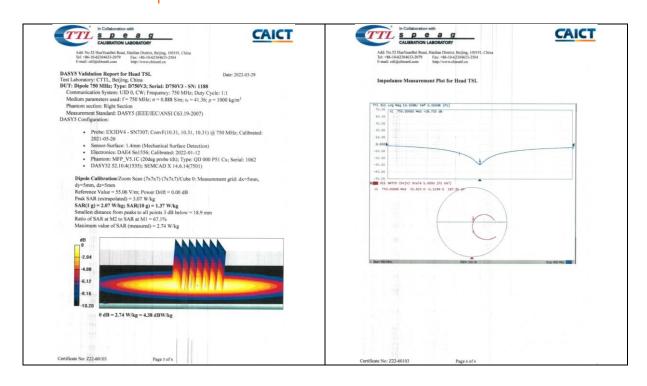
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#### 1.4 D835V2 - SN 4d114





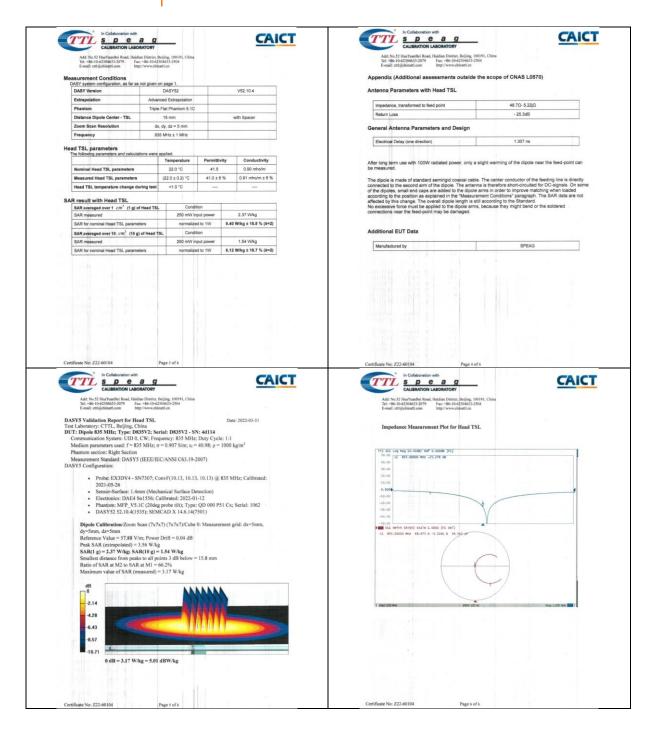
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### 1.5 D900V2 - SN 1d079





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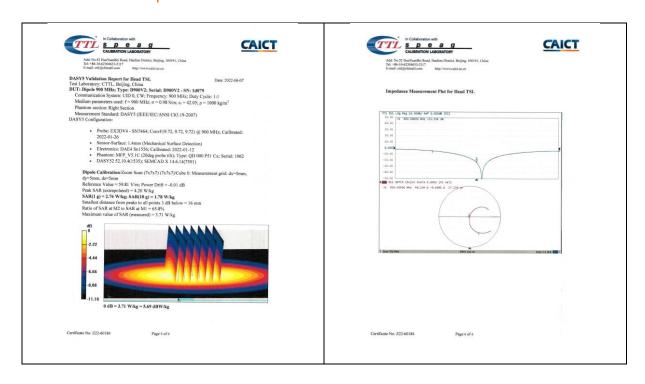
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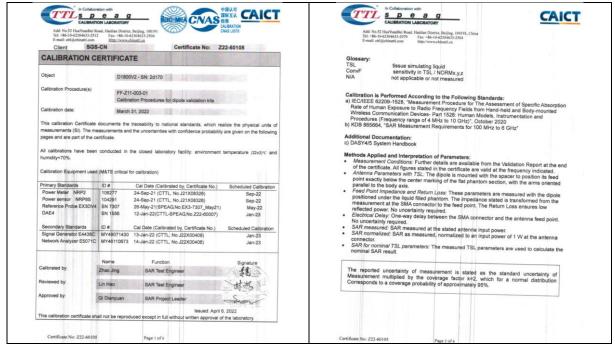
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#### 1.6 D1800V2 - SN 2d170





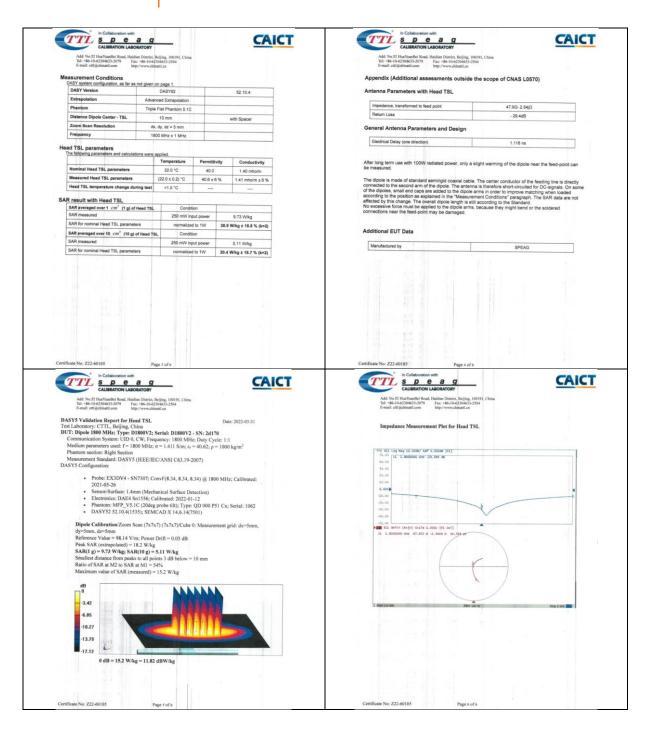
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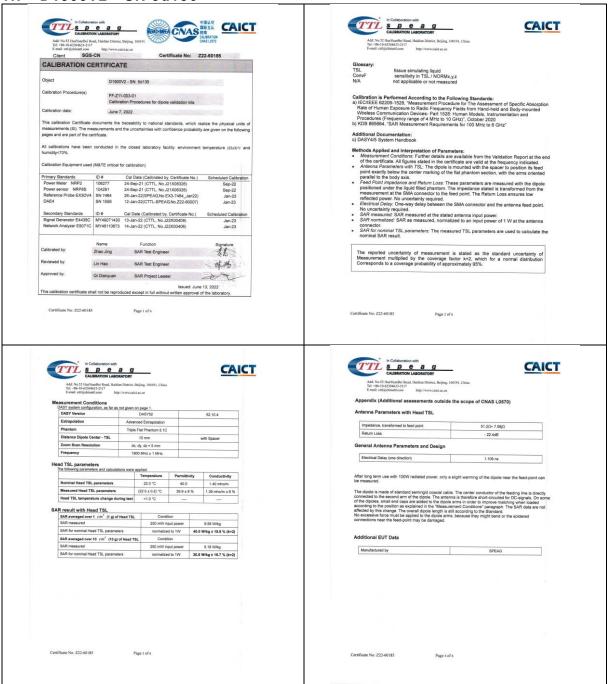
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### 1.7 D1900V2 - SN 5d136





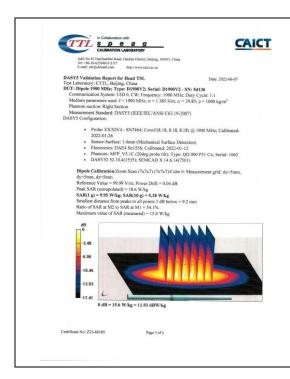
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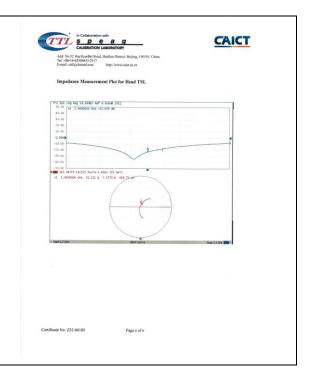
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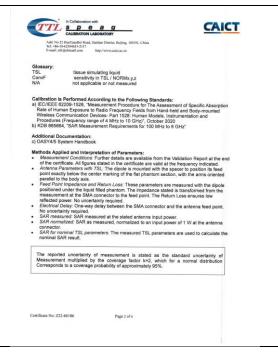
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### 1.8 D2000V2 - SN 1041







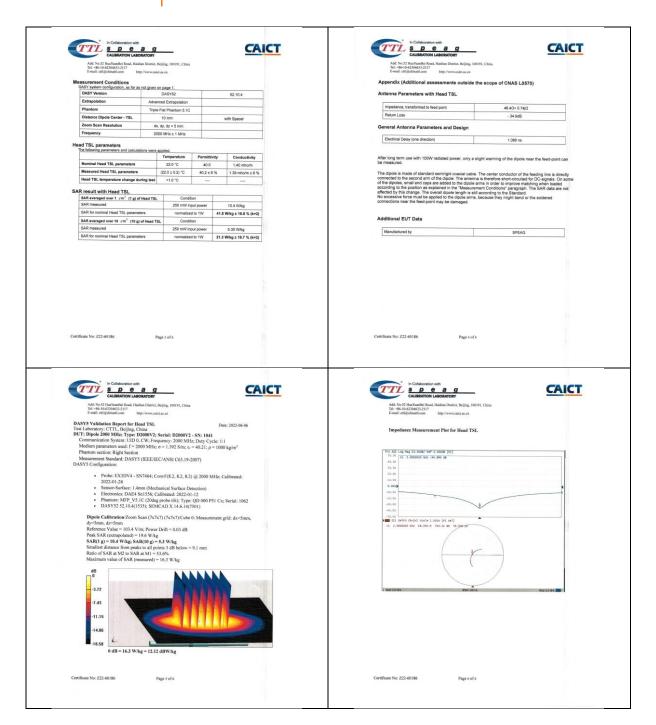
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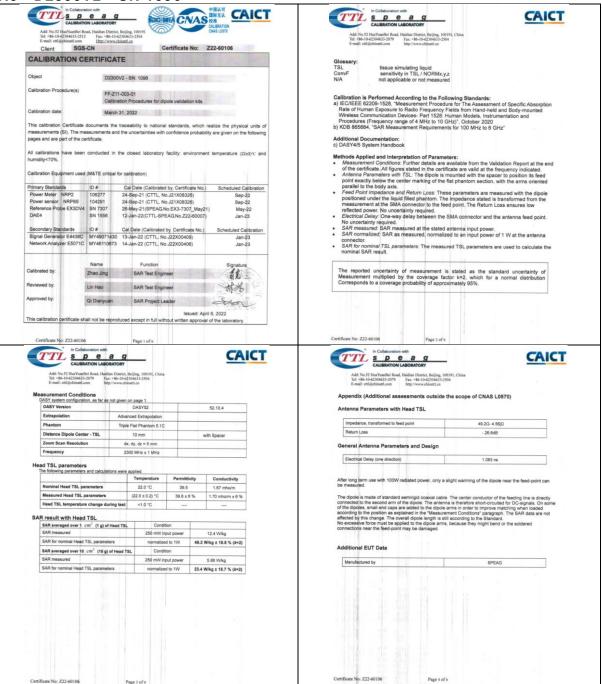
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### 1.9 D2300V2 - SN 1096





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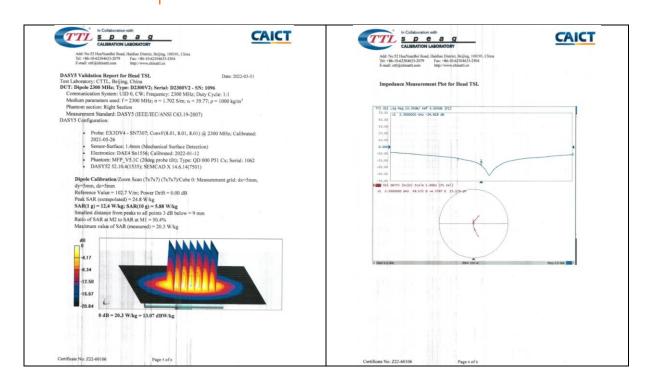
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#### 1.10 D2450V2 - SN 817



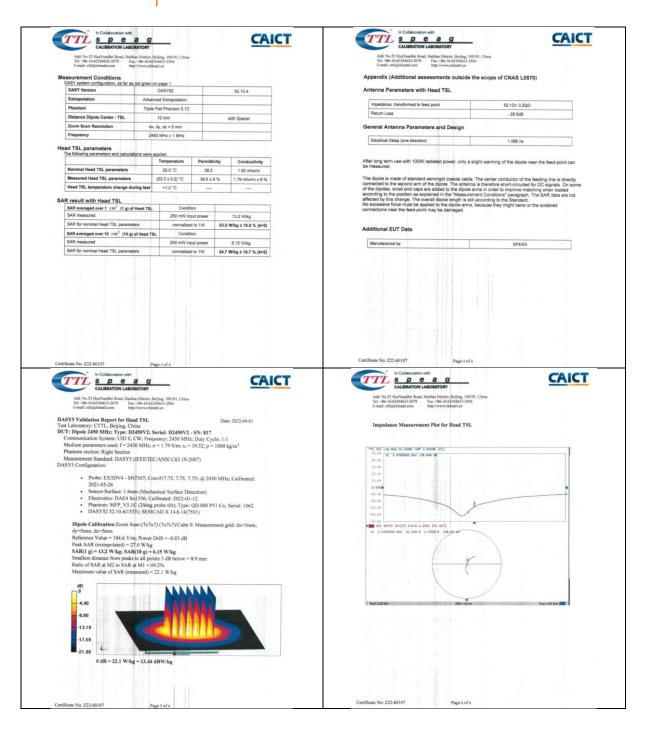


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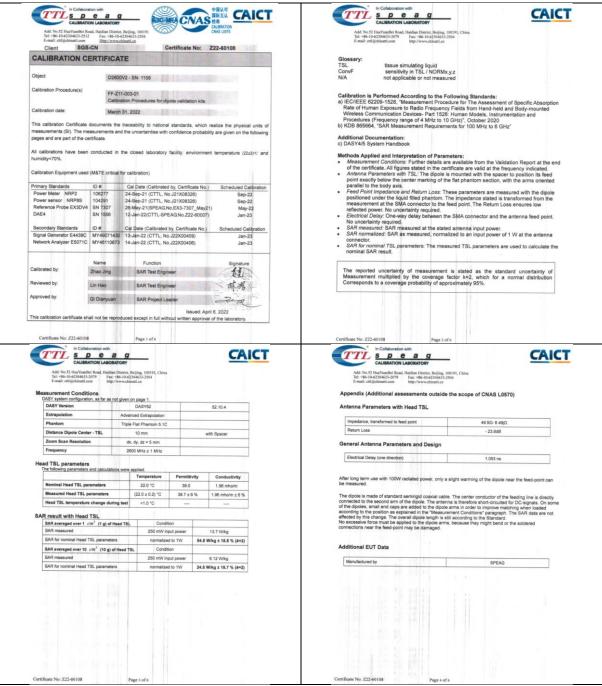
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### 1.11 D2600V2 - SN 1158





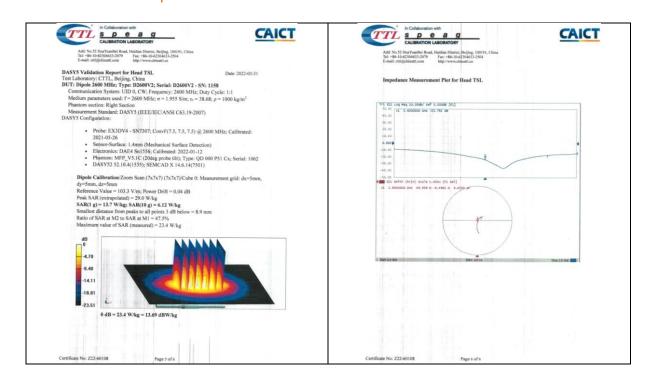
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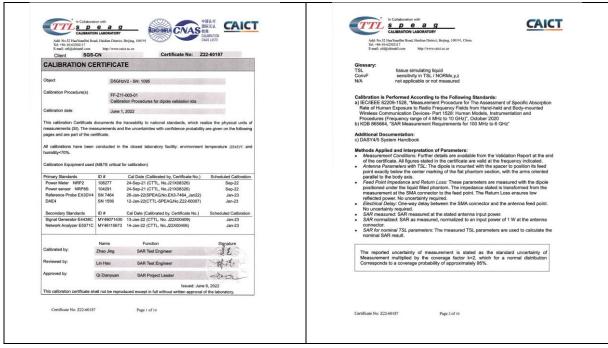
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#### 1.12 D5GHzV2 - SN 1095





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Measur	eme	nt	Cor	nditio	ns
DASY	syste	m or	onfig	uration	81

DASY Version	DASY52	52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5500 MHz ± 1 MHz 5600 MHz ± 1 MHz 5600 MHz ± 1 MHz	

#### Head TSL parameters at 5200MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mhaim
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.4 ± 6 %	4.62 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	-	-

### SAR result with Head TSI at 5200MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	7.79 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.6 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.1 W/kg ± 24.2 % (k=2)

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#### Head TSL parameters at 5300MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.2 ± 6 %	4.73 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	nine.	_

SAR averaged over 1 cm <sup>2</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.94 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.1 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.27 W/kg
SAR for naminal Head TSI parameters	normalized to 1W	22.6 W/kg ± 24.2 % (kg2)

#### Head TSL parameters at 5500MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.6	4.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.8 ± 6 %	4,94 mho/m ± 6 9
Head TSL temperature change during test	<1.0 °C		

#### SAR result with Head TSL at 5500MHz

R result with Head TSL at 5500MHZ		
SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.29 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	82.5 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.34 W/kg
CAD for explicit blood TOL committee	normalized to 5M	22.2 Million A 24.2 N. (Aw2)

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The following parameters and calculations were applied.				
	Temperature	Permittivity	Conductivity	
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m	
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.7 ± 6 %	5.05 mho/m ± 6 %	

#### SAR result with Head TSL at 5600MHz

SAR averaged over 1 cm2 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.12 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.8 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.30 W/kg

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.4 ± 6 %	5.25 mho/m ± 6 %
Manual TREE descriptions observed absolute treat	-4.0.40		

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.71 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	76.7 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.16 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.5 W/kg ± 24.2 % (k=2)

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### dix (Additional assessments outside the scope of CNAS L0570)

#### ers with Head TSL at 5200MHz

Impedance, transformed to feed point	46.1Ω- 5.03)Ω	
Date - Laur	23.649	

#### ntenna Parameters with Head TSL at 5300MHz

Impedance, transformed to feed point	47.8Ω- 2.42jΩ	
Return Loss	- 29.5dB	

### Antenna Parameters with Head TSL at 5500MHz

Impedance, transformed to feed point	50.3Ω- 4.26jΩ
Return Loss	- 27.4dB

Impedance, transformed to feed point	54.5Ω- 4.80jΩ
behum Loss	- 24.0dB

Return Loss	- 24.9dB	
Impedance, transformed to feed point	51.5Ω- 5.61jΩ	

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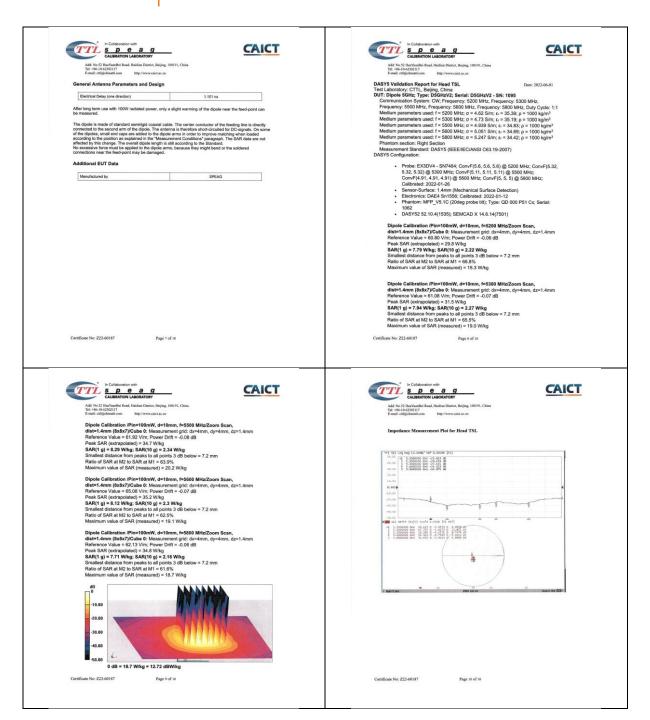
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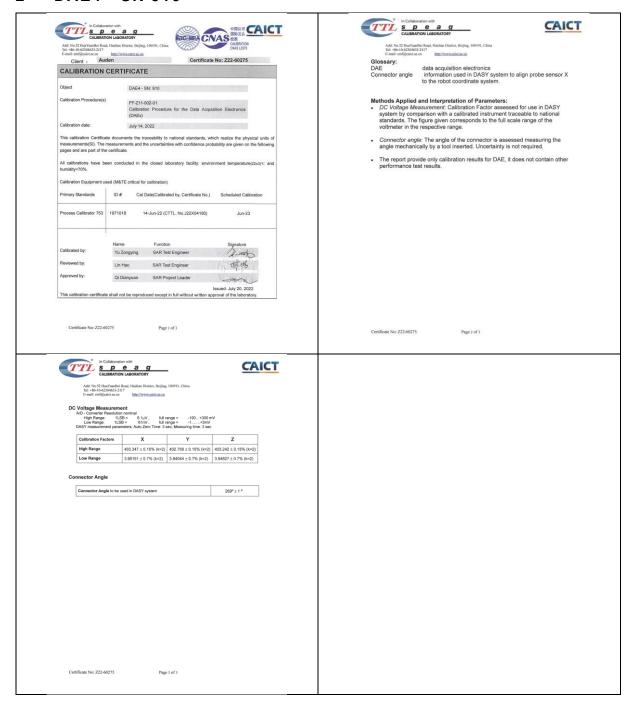
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#### 2 DAE4 - SN 910





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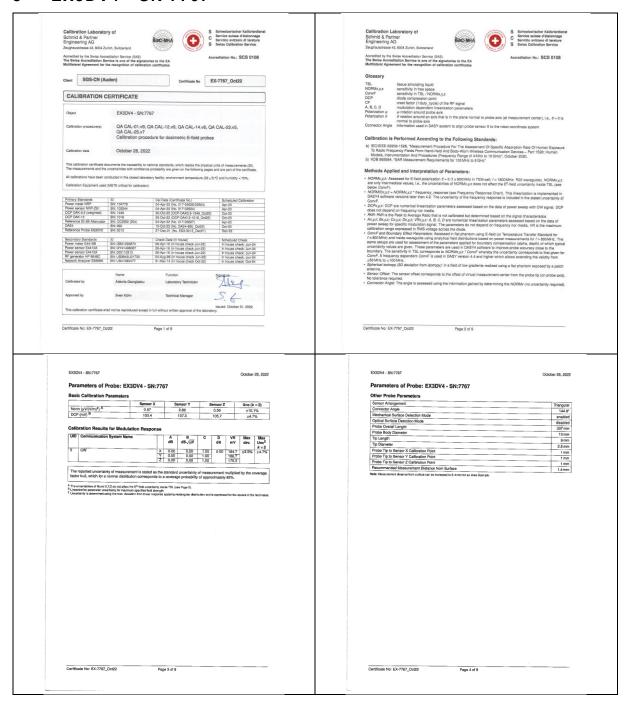
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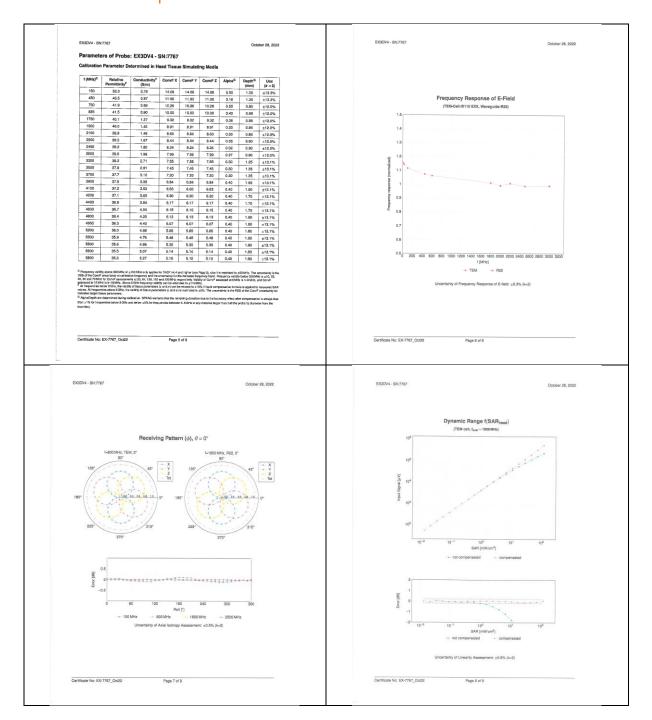
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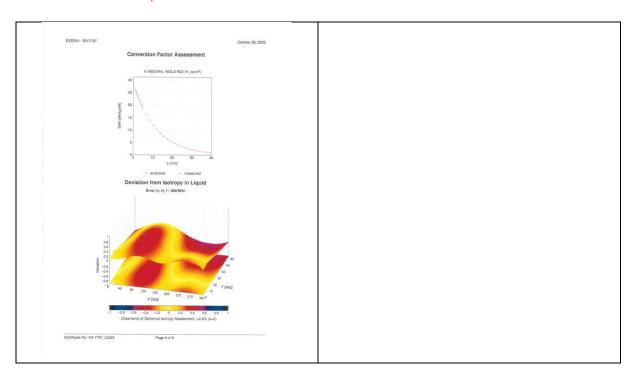
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## 4 Impedance and return loss

	Dipole (	CLA150 SN 4025		
		ead Liquid		
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ
2021/4/26	-31.4	/	47.8	/
2022/4/26	-32.5	-3.5%	47.1	0.7
2023/4/26	-32.3	-2.87%	46.5	1.3
	Dipole [	D450V3 SN 1103		
	Н	ead Liquid		
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ
2021/4/21	-23	1	57.1	/
2022/4/26	-23.4	-1.74%	56.6	0.5
2023/4/26	-23.9	-3.91%	56.2	0.9
	Dipole [	D750V3 SN 1188		
	Н	ead Liquid		
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ
2022/3/29	-28.7	1	53.6	/
2023/3/29	-28.3	1.39%	53.2	0.4
	Dipole D	835V2 SN 4d114		
	H	ead Liquid		
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ
2022/3/31	-25.3	1	48.7	/
2023/3/31	-24.6	2.77%	49.1	0.4
	Dipole D	900V2 SN 1d079		
	Н	ead Liquid		
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ
2022/6/7	-23.3	/	48.1	/
2023/6/7	-23.6	-1.29%	48.3	0.2
	Dipole D	1800V2 SN 2d170		
	Н	ead Liquid		
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ
2022/3/31	-29.4	/	47.9	/
2023/3/31	-28.9	1.70%	47.2	0.7
	Dipole D	1900V2 SN 5d136		
	Н	ead Liquid		
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ
2022/6/7	-22.4	1	51.2	/
	Dipole D	2000V2 SN 1041		
	Н	ead Liquid	,	
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2022/6/6	-34.9	/	48.4	/
	Dipole D	2300V2 SN 1096		
	H	ead Liquid	<del>,</del>	
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ



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2022/3/31	/ 0.2 ΔΩ / 0.5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ΔΩ / 0.5 ΔΩ /
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	/ 0.5 ΔΩ /
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	/ 0.5 ΔΩ /
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	/ 0.5 ΔΩ /
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ΔΩ /
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ΔΩ /
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	/
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	/
2022/3/31   -23.8	/
2023/3/31   -23.3   2.10%   50.3	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.4
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
2022/6/1   -23.6   /   46.1     Dipole D5GHzV2 SN 1095 for 5300     Head Liquid     Date of Measurement   Return Loss(dB)   Δ %   Impedance (Ω)     2022/6/1   -29.5   /   47.8     Dipole D5GHzV2 SN 1095 for 5500     Head Liquid	
Dipole D5GHzV2 SN 1095 for 5300	ΔΩ
	/
Date of Measurement         Return Loss(dB)         Δ %         Impedance (Ω)           2022/6/1         -29.5         /         47.8           Dipole D5GHzV2 SN 1095 for 5500           Head Liquid	
2022/6/1 -29.5 / 47.8  Dipole D5GHzV2 SN 1095 for 5500  Head Liquid	
Dipole D5GHzV2 SN 1095 for 5500 Head Liquid	ΔΩ
Head Liquid	/
·	
Date of Measurement Return Loss(dB) $\Delta$ % Impedance ( $\Omega$ )	ΔΩ
2022/6/1 -27.4 / 50.3	/
Dipole D5GHzV2 SN 1095 for 5600	
Head Liquid	
	ΔΩ
2022/6/1 -24.0 / 54.5	/
Dipole D5GHzV2 SN 1095 for 5800	
Head Liquid	
2022/6/1 -24.9 / 51.5	ΔΩ



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