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# Appendix C for KSCR221200250201

## **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
		4	D835V2	4d114	2022/03/31	2025/03/30
		5	D900V2	1d079	2022/06/07	2025/06/06
5		6	D1800V2	2d170	2022/03/31	2025/03/30
Dipole		7	D1900V2	5d136	2022/06/07	2025/06/06
		8	D2000V2	1041	2022/06/06	2025/06/05
		9	D2300V2	1096	2022/03/31	2025/03/30
	$\boxtimes$	10	D2450V2	817	2022/04/01	2025/03/31
		11	D2600V2	1158	2022/03/31	2025/03/30
		12	D5GHzV2	1095	2022/06/01	2025/05/31
DAE	$\boxtimes$	13	DAE4	1245	2022/05/30	2023/05/29
Probe	$\boxtimes$	14	EX3DV4	7767	2022/10/28	2023/10/27

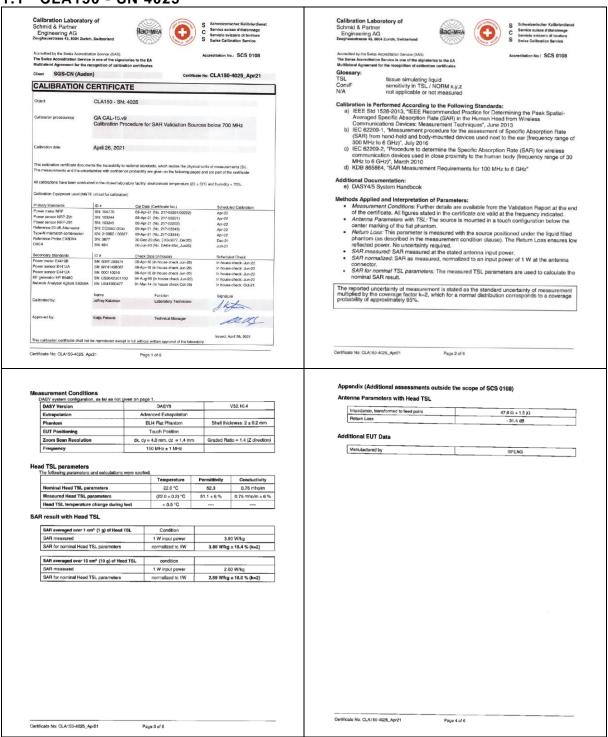




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### 1 Dipole

### 1.1 CLA150 - SN 4025





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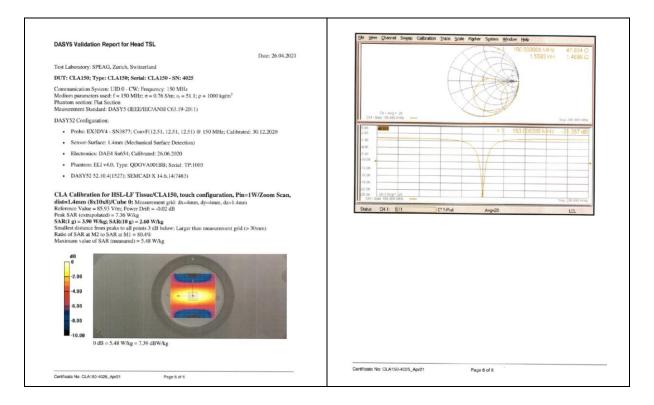
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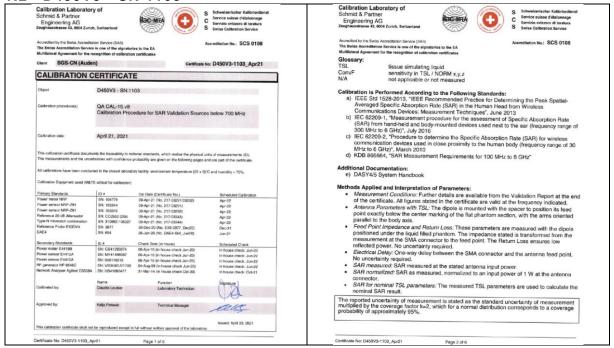
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### D450V3 - SN 1103





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#### Measurement Conditions

DASY Version	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Phantom	Shell thickness; 2 ± 0.2 mm
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	450 MHz ± 1 MHz	

	Temperature	da	
4 4 5 9 5 9 5	remperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C:	43.5	0.87 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	43.1±6%	0.87 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		ni-

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.14 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	4,55 W/kg ± 18.1 % (k=2)
SAR averaged over 10 cm <sup>2</sup> (10 g) of Head TSL	condition	
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL. SAR measured	condition 250 mW input power	0.767 W/kg

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

Antenna Parameters with Head TSL

Impedance, transformed to feed point	57.1 Ω - 2.6 jΩ
Return Loss	- 23,0 dB

#### General Antenna Parameters and Design

Electrical Delay (one direction)	1.346 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 at standard sensitifd coords cable. The center conductor of the feeding line is desepose and see instandant sensitive contracts and the dipole. The antenno is therefore selective called for DC signals. On some of the dipole, small order as addited for the dipole arm in order to improve matching when needed secondary to the positions are registed of in the "Massurement Conditions" paragraph. The SAR data are not affected by this charge. The overall dipole length is sell to exceeding to the Standard.

Note exceeding to the Standard.

#### Additional EUT Data

Manufactured by	SPEAG
	0.2.0

Certificate No: D450V3-1103\_Apr21 Page 3 of 6

#### DASY5 Validation Report for Head TSL

Date: 21.04.2021

### Test Laboratory: SPEAG, Zurich, Switzerland

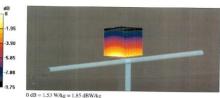
DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1103

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)

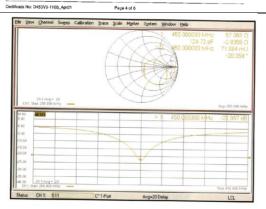
DASY52 Configuration:

- 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: txe-5mm, dys-5mm, dzs-5mm
Reference Value = 9.18 V/m, Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.76 W/kg
SAR(1 g) = 1.14 W/kg; SAR(1 g) = 0.676 W/kg
Saralleg s = 0.04 W/kg; SAR(1 g) = 0.64 W/kg
SAR(1 g) = 1.14 W/kg; SAR(1 g) = 0.64 W/kg
SAR(1 g) = 1.48 V = 0.84 R w H = 0.64 W/kg
Maximum value of SAR (measured) = 1.53 W/kg



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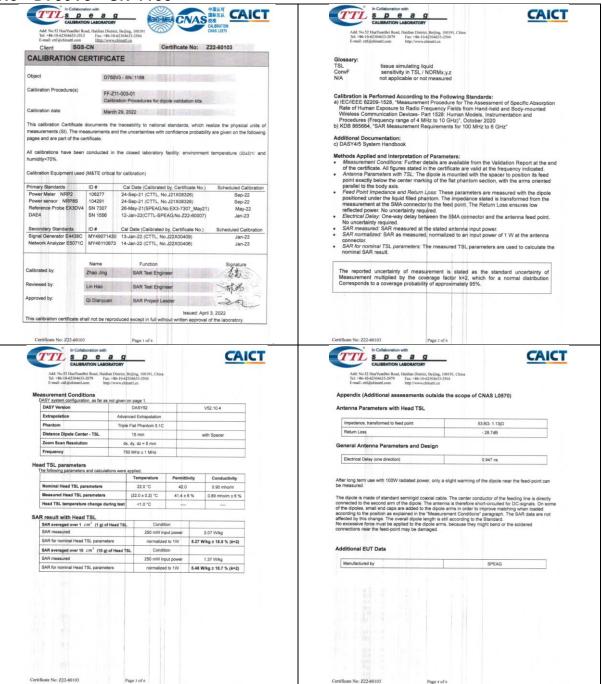
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### 1.3 D750V3 - SN 1188



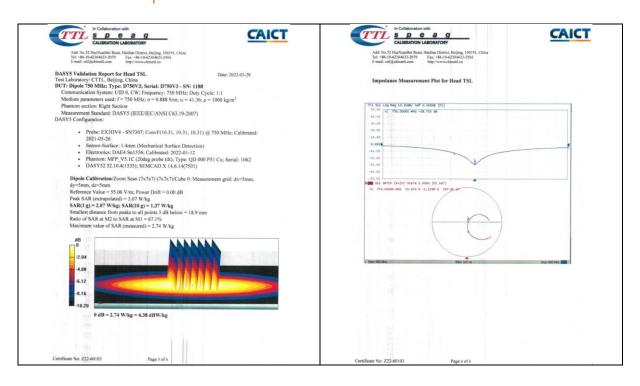


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#### 1.4 D835V2 - SN 4d114





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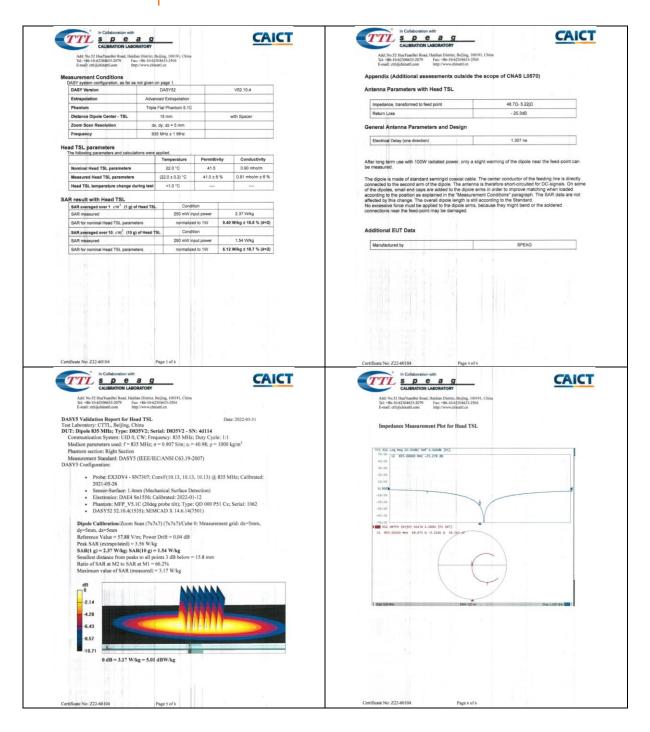
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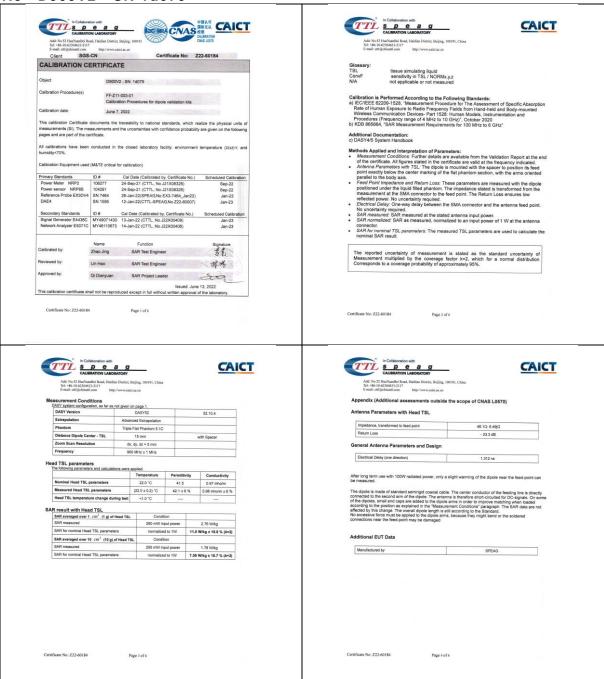






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### 1.5 D900V2 - SN 1d079





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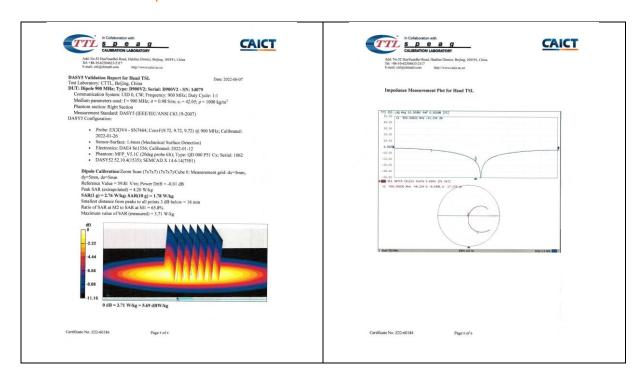
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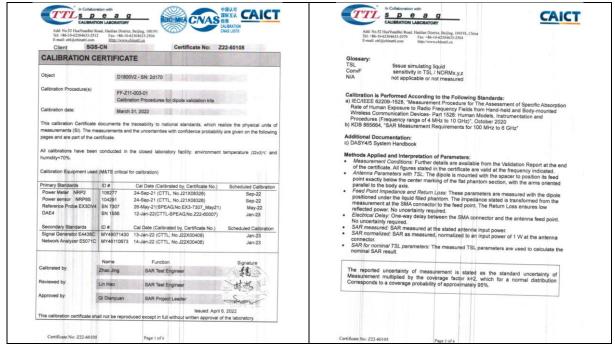
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#### 1.6 D1800V2 - SN 2d170



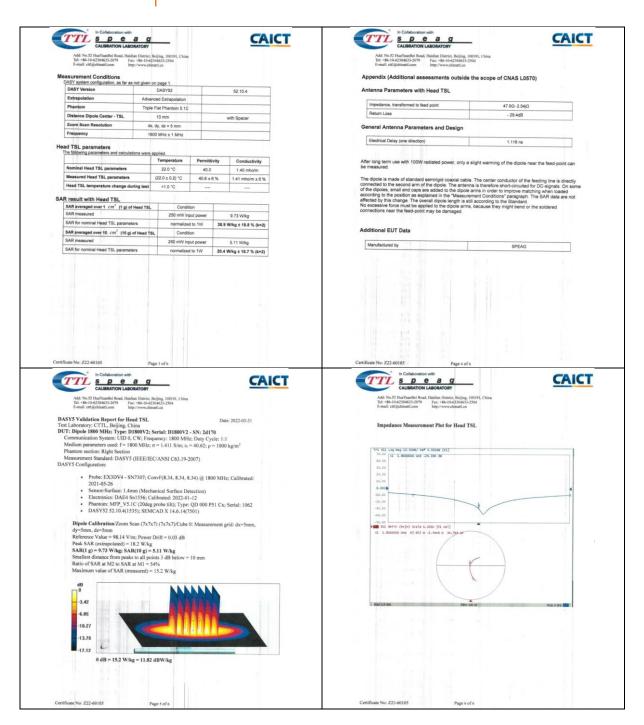


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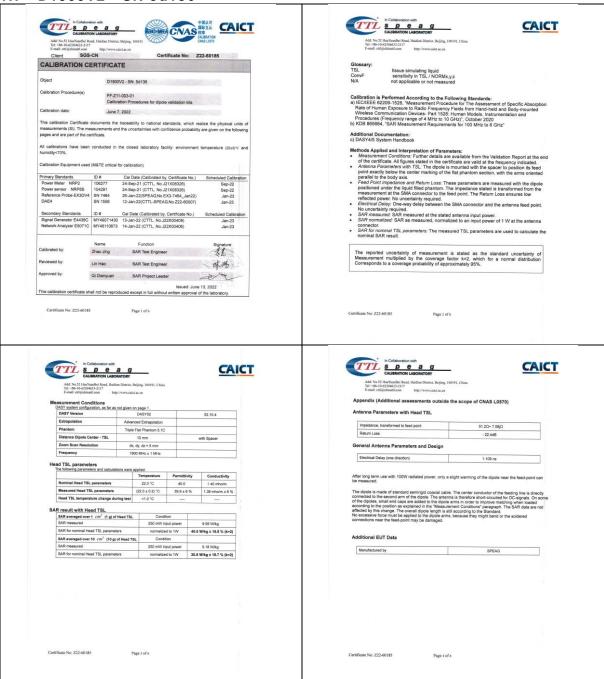
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### 1.7 D1900V2 - SN 5d136



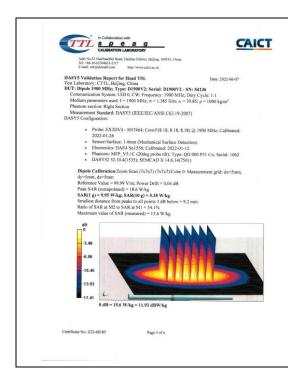


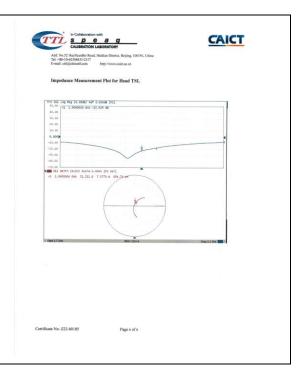
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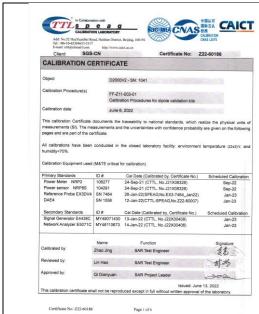


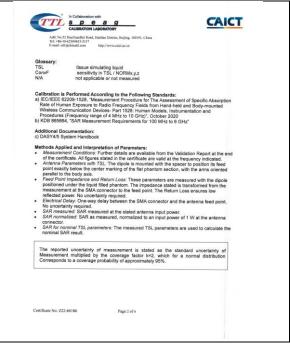
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### 1.8 D2000V2 - SN 1041







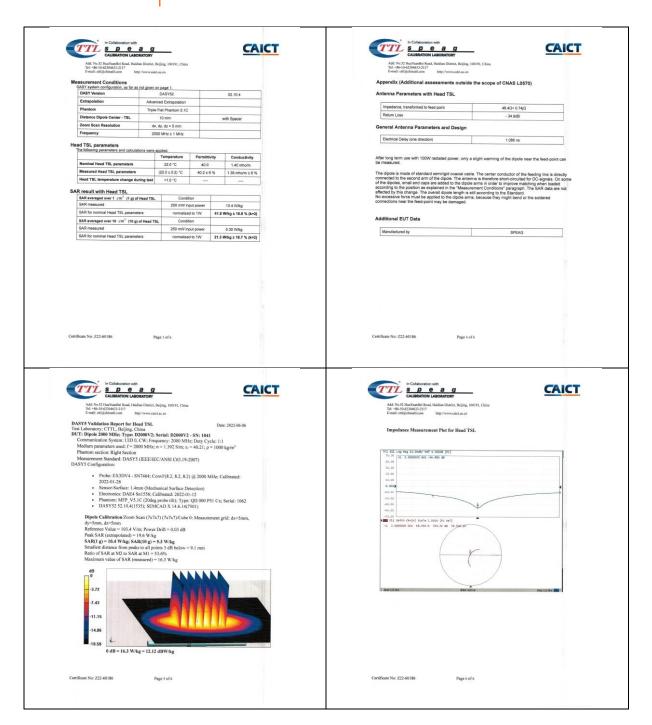
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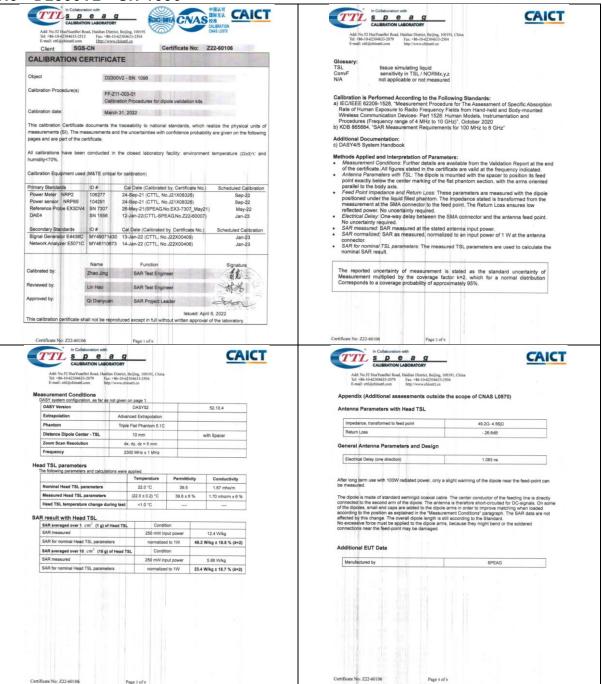
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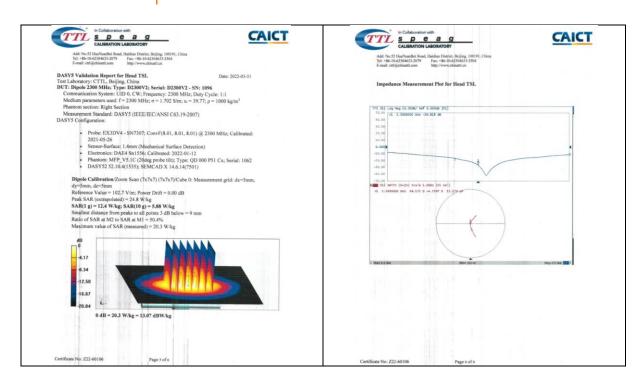
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#### 1.10 D2450V2 - SN 817





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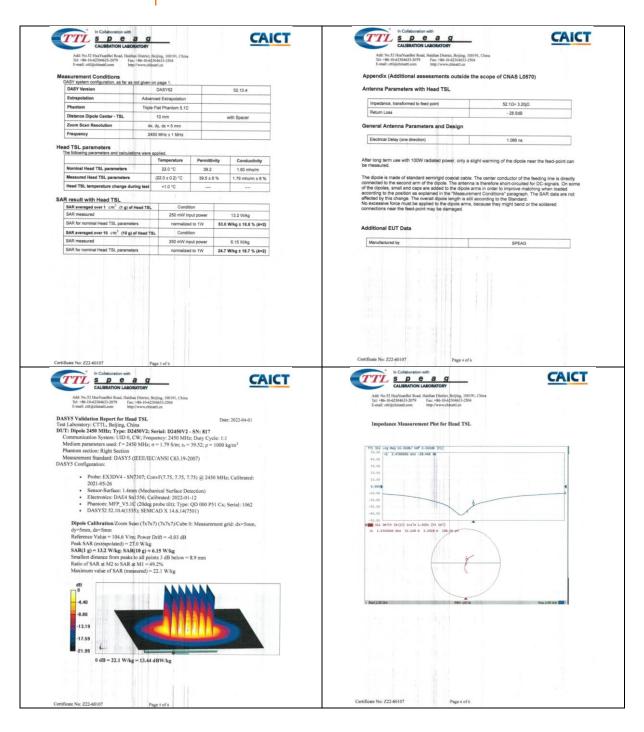
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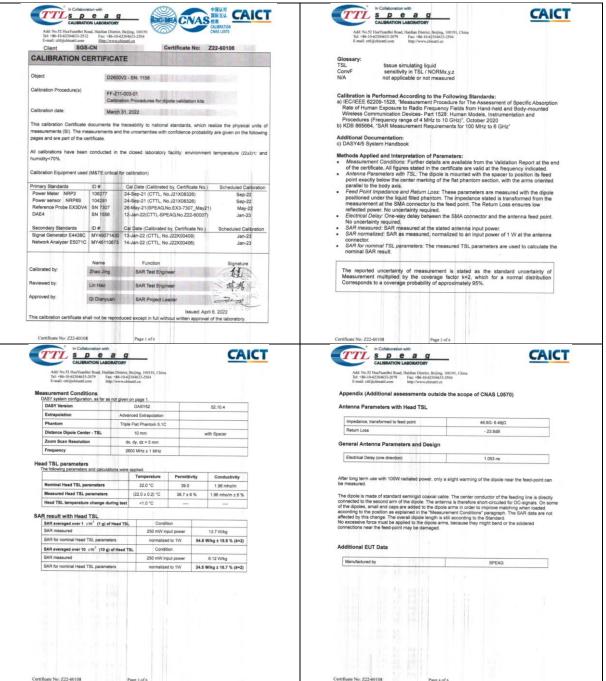
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### 1.11 D2600V2 - SN 1158



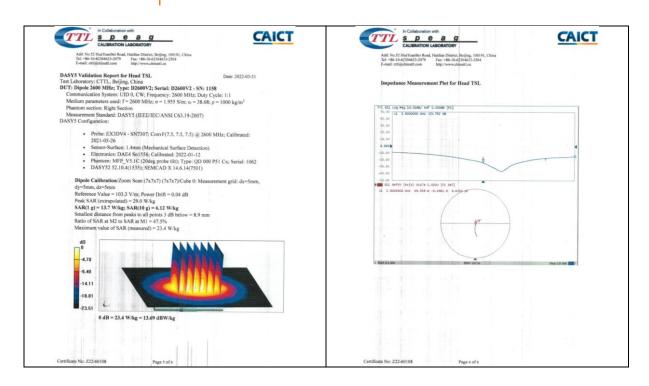


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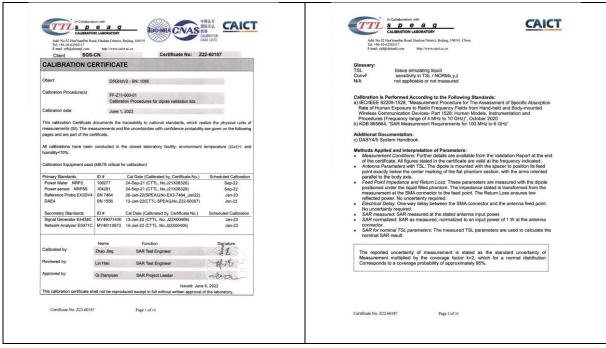
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#### 1.12 D5GHzV2 - SN 1095





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CAICT

CAICT



#### rement Conditions

ASY 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	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	

CAICT

CAICT

#### Head TSL parameters at 5200MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mha/m
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 TSL 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)

Certificate No: Z22-60187

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Add: No.52 HunYuznBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62302117
E-mail: ctliffichinattl.com http://www.caict.ac.on

#### 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		-

#### SAR result with Head TSI at 5300MHz

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
CAD to compare blood TCI commenters	normalized to 1W	22 6 Wilton + 24 2 % (b=2)

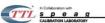
	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.6	4.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.8 ± 6 %	4,94 mho/m ± 6 9
Head TSL temperature change during test	<1.0 °C		-

#### 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 to combat blood TOL commuters	normalized to 5M	22.2 Million A 24.2 N. (Aw2)

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he 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 %
Head TSI temperature change during text	×10.10	1200	640.0

### 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 to all	-4.0.40		

SAR averaged over 1 cm3 (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>2</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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tenna Parameters with Head TSL at 5200	MHZ
Impedance, transformed to feed point	46.1Q-5.03iQ

mpedance, transformed to feed point	46.1Ω- 5.03jΩ	
Return Loss	- 23.6dB	
veturii Lusis	- 20,000	

## na Parameters with Head TSL at 5300MHz

impedance, transformed to feed point	47.00-2.42(12	
Return Loss	- 29.5dB	
	200	

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

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

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

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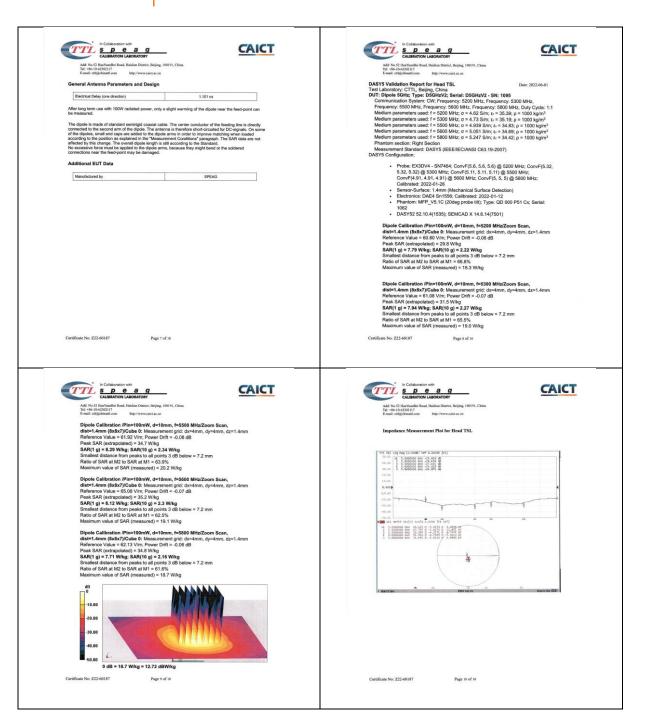


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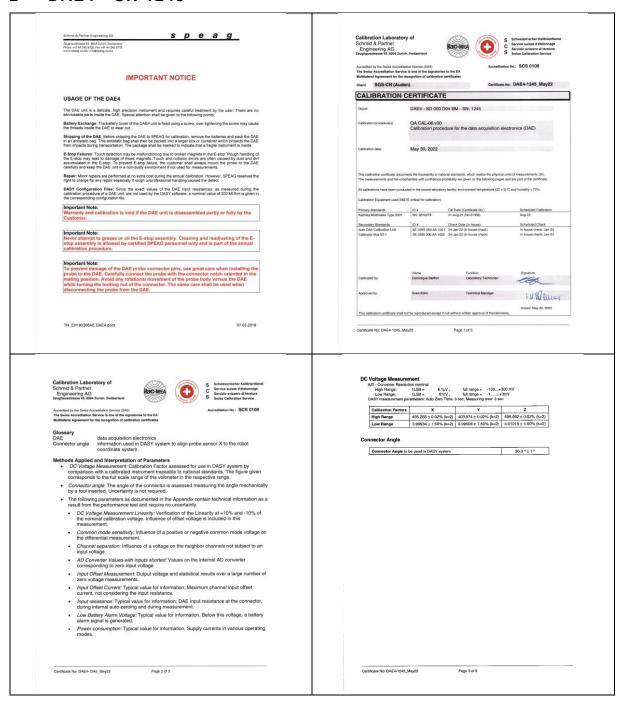






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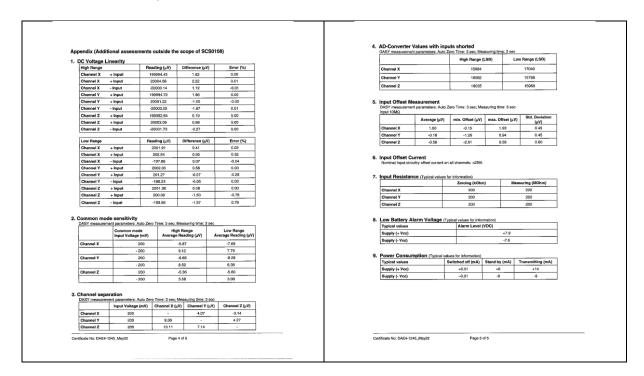
#### 2 **DAE4 - SN 1245**



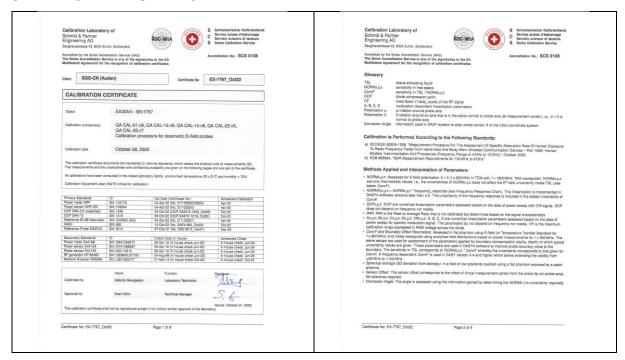




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#### **EX3DV4 - SN 7767** 3





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District   District	EXCOV4 - 594:787  Parameters of Probe: EX3DV4 - SN:7767  Other Probe Parameters  Sensor Arrangements  Connector Angle  List Connector Angle  Connector Conne
Curtificatio Not: EX-7787_Octo2 Page 5 of 0  EXGOM-1-8907787	Certificate No: EX-7767_Coti22 Page 4 of 9  EXISTR4 - SEV-7767
Parameters of Probe: EX3DV4 - SN:7767   Calibration Parameter Determined in Head Tissus Simulating Media   T (9849)   Relative   Conductivity   Connet X   Connet X	Frequency Response of E-Field (TEM-cell:#119 EDX, Weveguder:#122)  1.5  1.6  1.9  0.9  0.8  0.7  0.0  0.8  0.7  0.9  1.7  1.9  1.9  1.9  1.9  1.9  1.9  1



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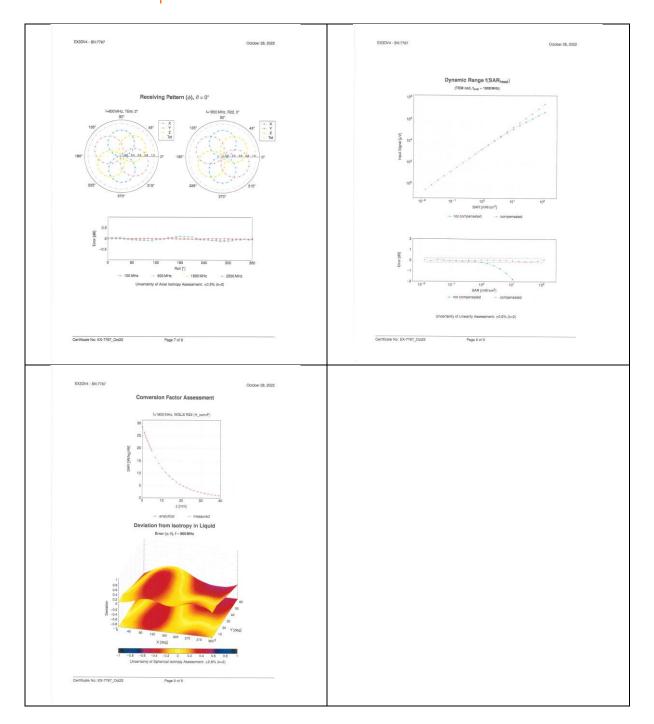
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## 4 Impedance and return loss

Dipole CLA150 SN 4025					
Head Liquid					
Date of Measurement	Return Loss(dB)	Δ%	Impedance $(\Omega)$	ΔΩ	
2021/4/26	-31.4	/	47.8	/	
Dipole D450V3 SN 1103					
Head Liquid					
Date of Measurement	Return Loss(dB)	Δ%	Impedance $(\Omega)$	ΔΩ	
2021/4/21	-23	/	57.1	/	



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