

Page: 1 of 25

Appendix C for KSCR230300045401

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
D: 1		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
	\boxtimes	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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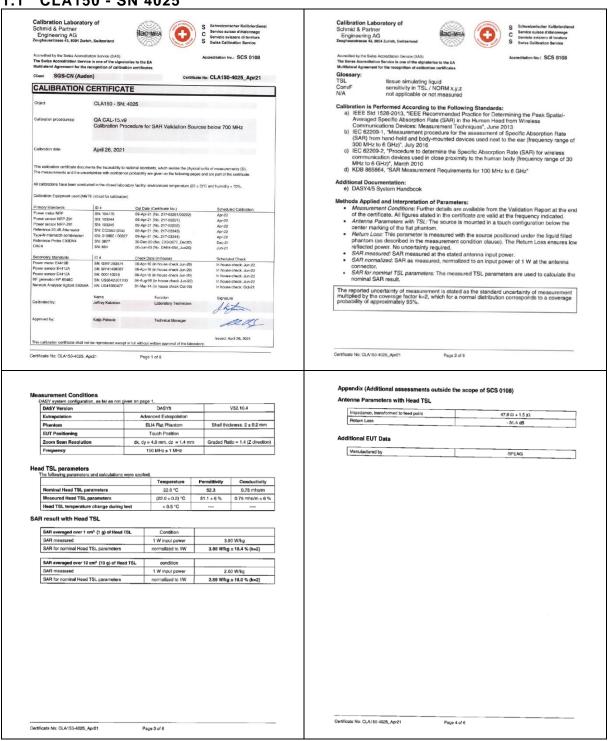
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Dipole 1

1.1 CLA150 - SN 4025



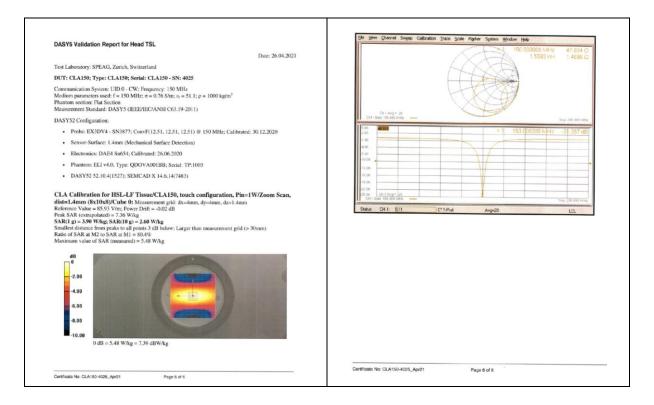


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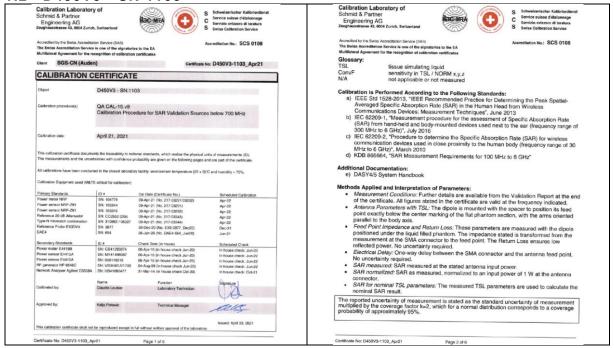
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D450V3 - SN 1103





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Measurement Conditions

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

ead TSL parameters The following parameters and calculations were appli-	led.		
	Temperature	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		

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	normalizéd to 1W	4.55 W/kg ± 18.1 % (k=2)
SAR averaged over 10 cm ² (10 g) of Head TSL	condition	
SAR measured	250 mW input power	0.767 W/kg
SAR for nominal Head TSL parameters		

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	57.1 Ω - 2.8 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 could be considered for Do-Signish. 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 it in "Massurement Conditions" paragraph. The SAR data are not affected by this charge. The overall dipole length is sell to exceeding to the Standard.

This distribution is sell to exceed the contract of the dipole arms, because they might bend or the soldered connections near the topolopitim may be demanded.

Additional EUT Data

Manufactured by	SPEAG

Certificate No: D450V3-1103_Apr21 Page 4 of 6

Certificate No: D450V3-1103_Apr21 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:

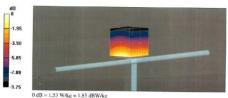
Probe: EX3DV4 - SN3877; ConvF(10.64, 10.64, 10.64) @ 450 MHz; Calibrated: 30.12.2020

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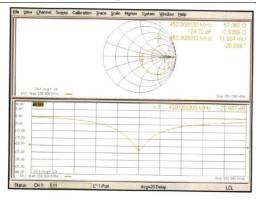
Date: 21.04.2021

- 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



Certificate No: D450V3-1103_Apr21



Certificate No: D450V3-1103_Apr21 Page 6 of 6



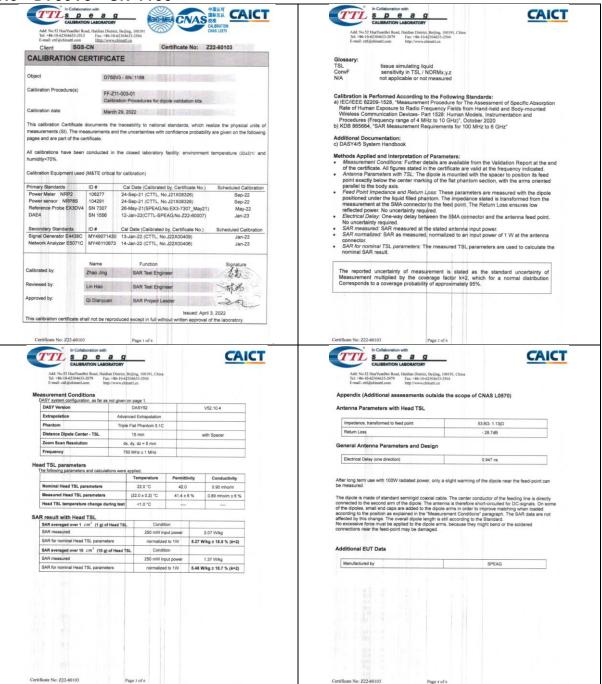
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1.3 D750V3 - SN 1188



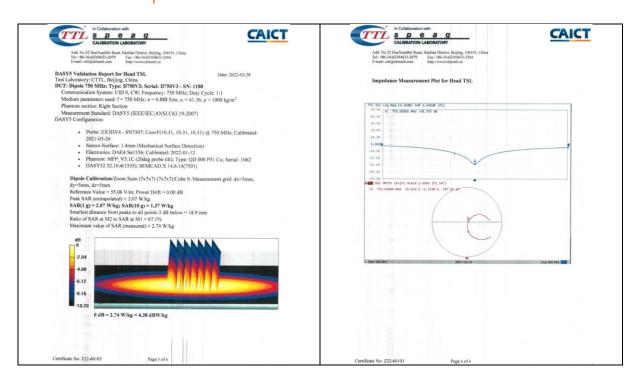


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1.4 D835V2 - SN 4d114



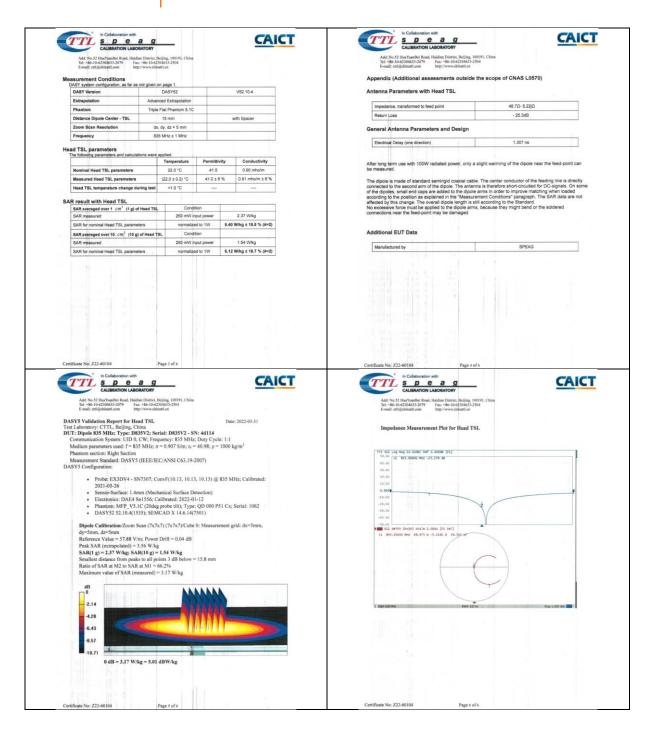


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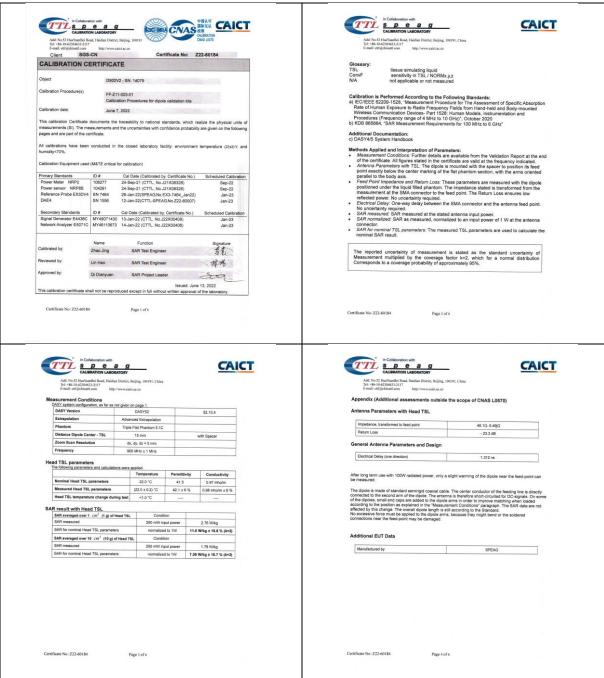
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D900V2 - SN 1d079



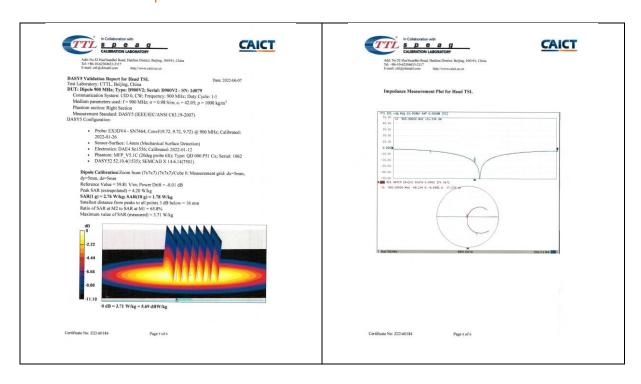


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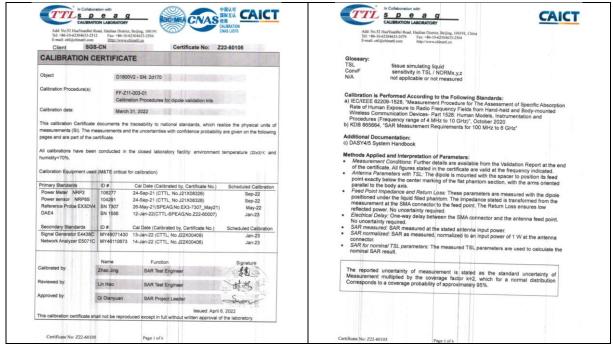
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1.6 D1800V2 - SN 2d170



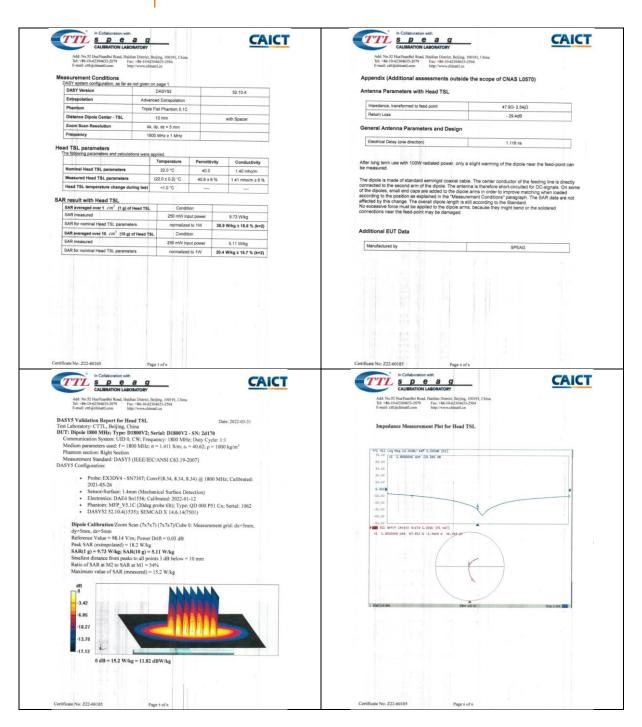


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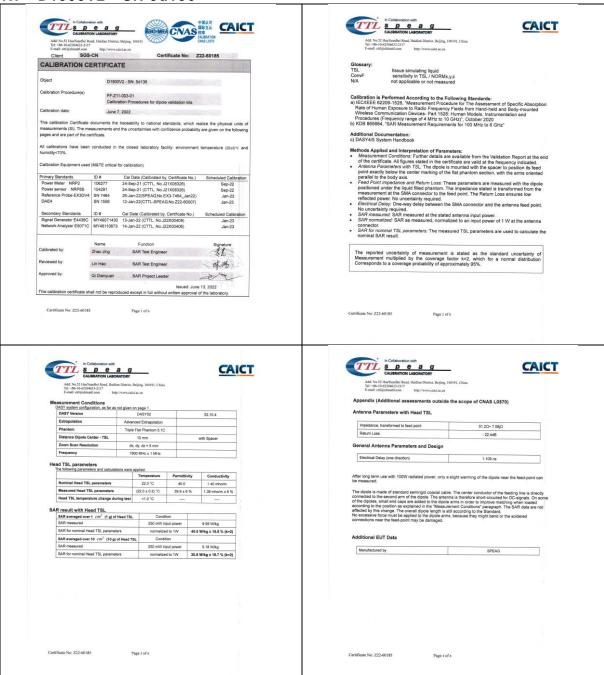
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1.7 D1900V2 - SN 5d136



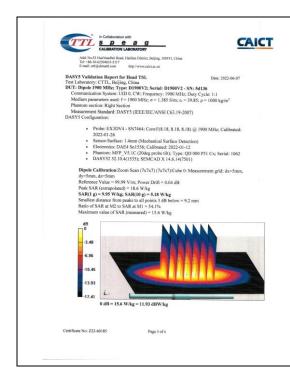


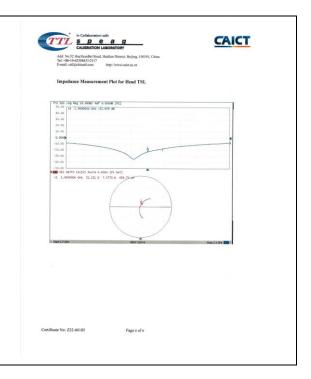
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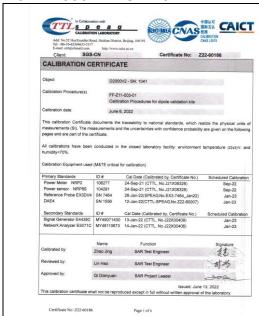


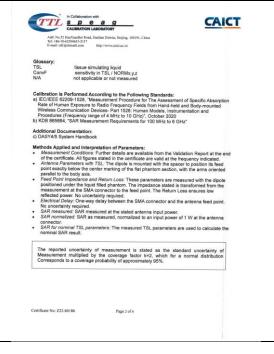
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1.8 D2000V2 - SN 1041







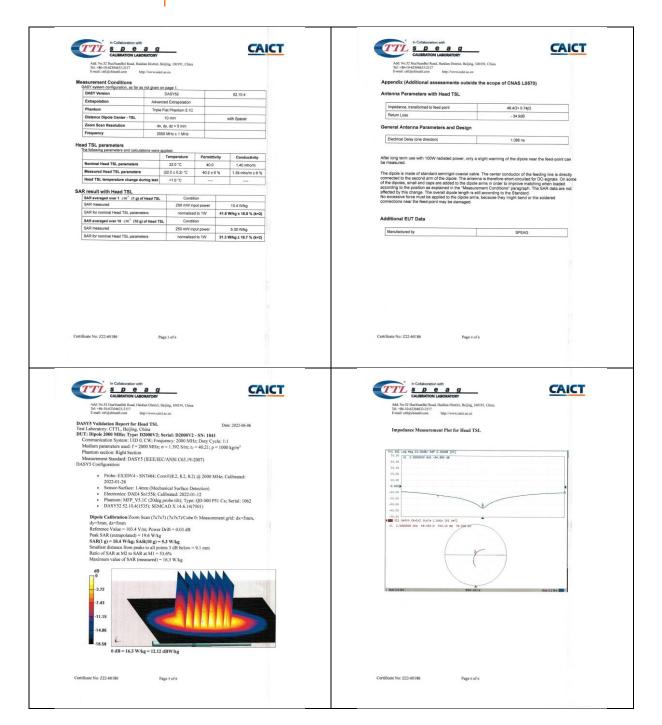
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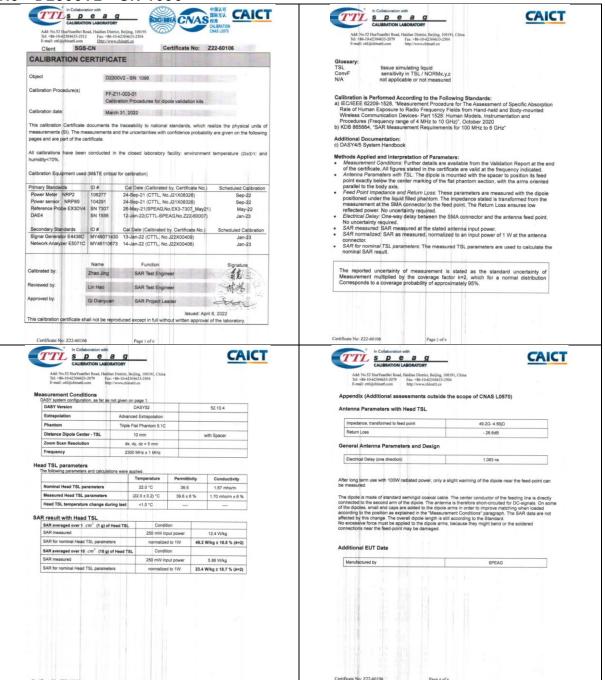
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1.9 D2300V2 - SN 1096



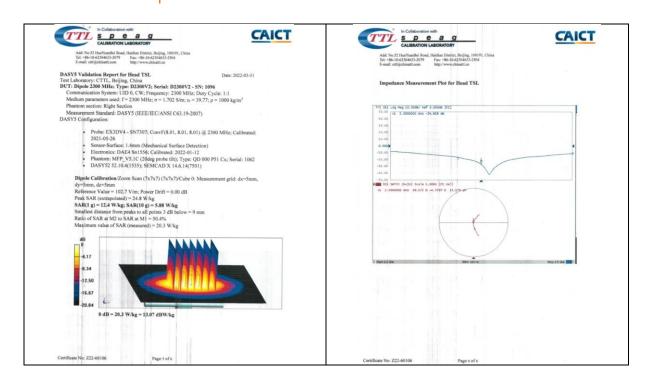


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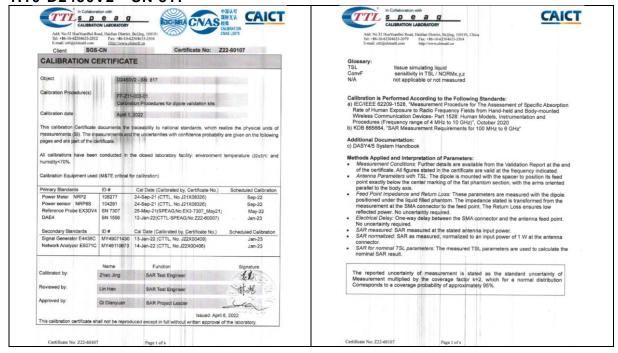
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1.10 D2450V2 - SN 817



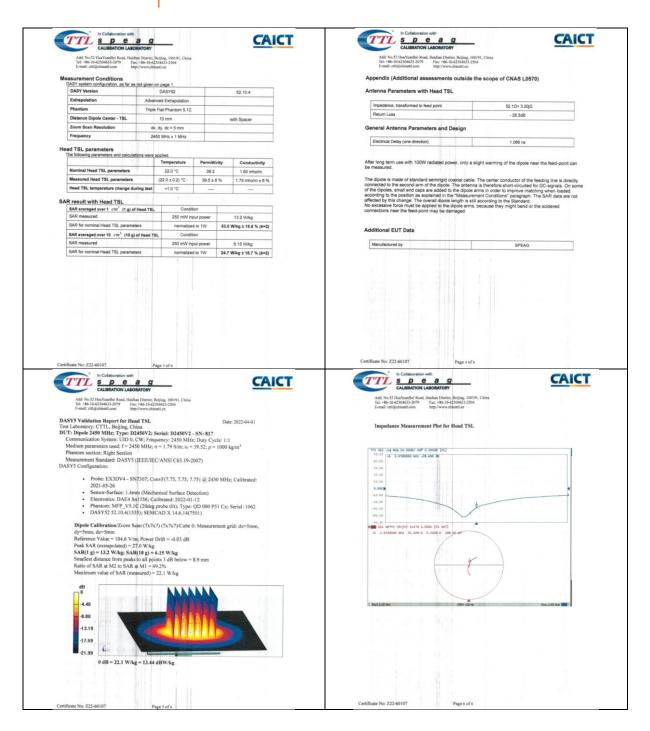


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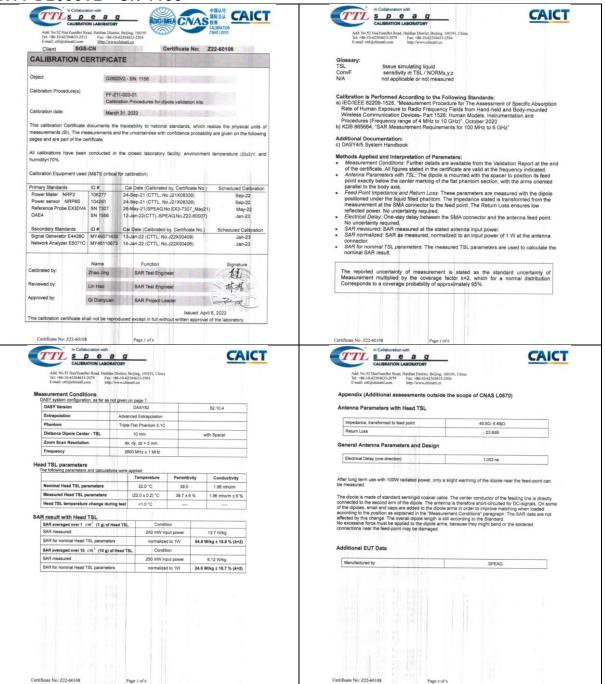
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1.11 D2600V2 - SN 1158



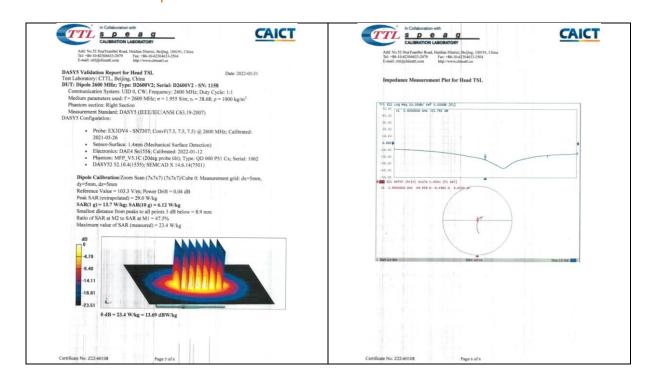


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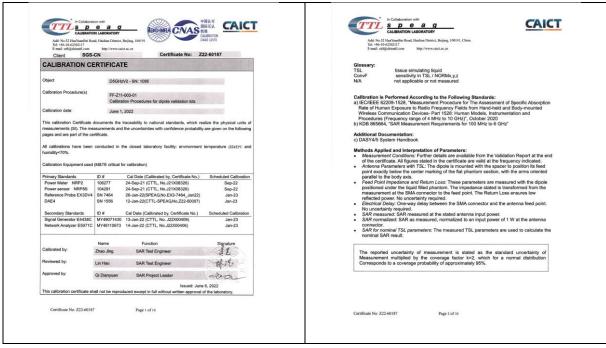
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1.12 D5GHzV2 - SN 1095





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CAICT

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CAICT

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Measurement	Conditions	5
DARY austern c	configuration a	

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	

Head TSL parameters at 5200MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mho/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

Condition	
250 mW input power	7.79 W/kg
normalized to 1W	77.6 W/kg ± 24.4 % (k=2)
Condition	
250 mW input power	2.22 W/kg
normalized to 1W	22.1 W/kg ± 24.2 % (k=2)
	250 mW input power normalized to 1W Condition 250 mW input power

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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 ² (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 ³ (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

he following parameters and calculations were			
	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 %
Head TSL temperature change during test	<1.0 °C		-

SAR result with Head TSL at 5500MHz

SAR averaged over 1 cm ³ (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 ³ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.34 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.3 W/kg ± 24.2 % (k=2)

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	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 cm ² (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 ³ (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		

R result with Head TSL at 5800MHz		
SAR averaged over 1 cm ³ (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 ³ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.16 W/kg

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enna Parameters with Head 15L at 5200		
mpedance, transformed to feed point	46.1Ω- 5.03jΩ	

Return Loss	- 23.6dB	
enna Parameters with Head TSL at	5300MHz	

Antenna Parameters with Head TSL at 550	OOMHz

Ante	enna Parameters with Head TSL at 56001	MHz	
le le	mpedance, transformed to feed point	54.5Ω- 4.80jΩ	
	- No. 10 (10 (10 (10 (10 (10 (10 (10 (10 (10	04.040	

Antenna Parameters with Head TSL at 5800MHz

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

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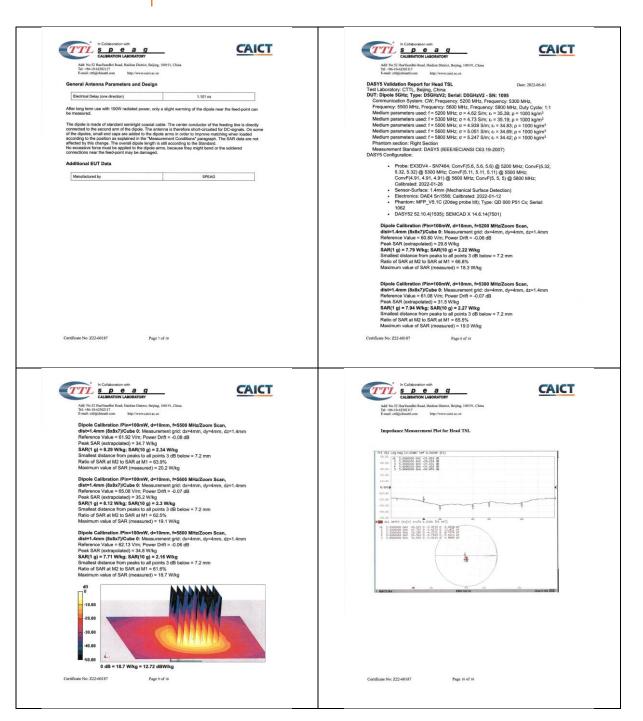


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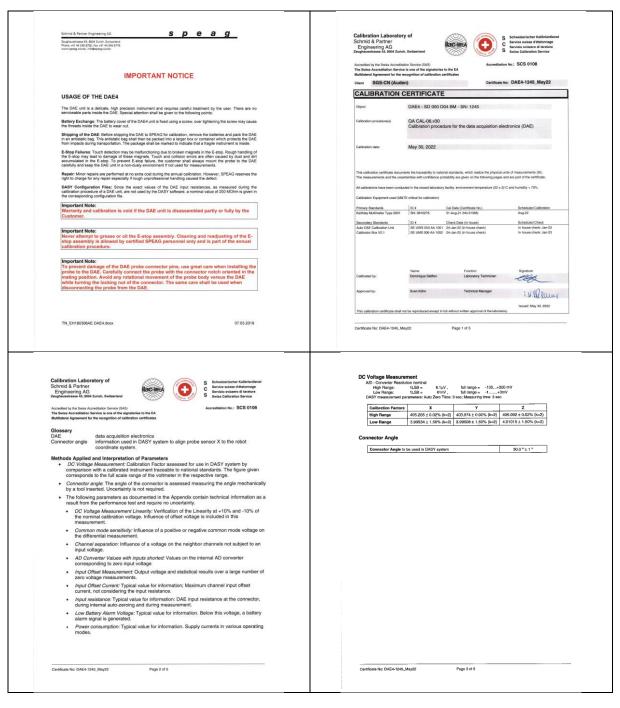
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2 **DAE4 - SN 1245**



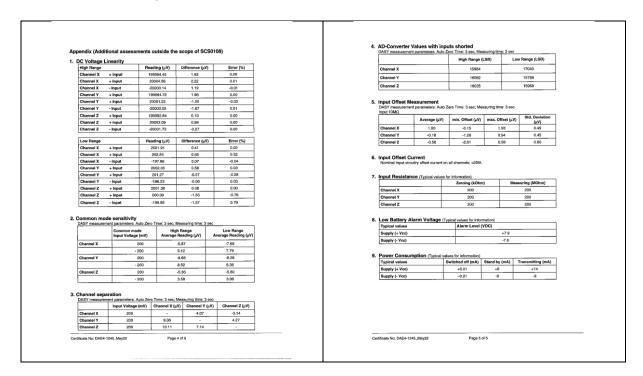


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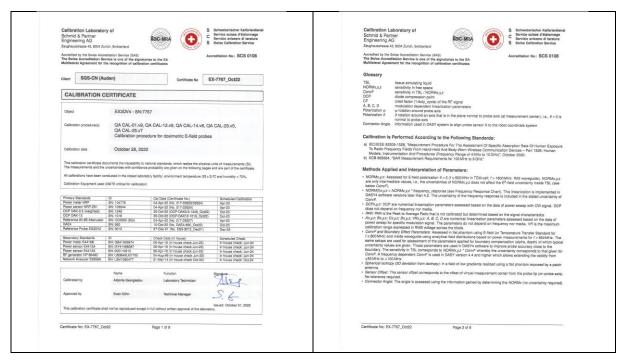
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EX3DV4 - SN 7767 3





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District - Section 2 District - Section 3 District - Section 3	EXIDV4 - 98/7/07 Parameters of Probe: EX3DV4 - SN:7767 Other Probe Parameters General Arrangement General Arrangement Connector Angue (Lecture and Control of the Control of Co
Conflicate No: EX-7767_Cvd22 Page 3 of 9	Certificate No: EX-7787_Del522 Page 4 of 9
Parameters of Probe: EX3DV4 - SN:7767 Calibration Parameter Determined in Head Tissue Simulating Media Total Parameter Determined (Simi) Total Parameter Determined	Frequency Response of E-Field (TEM-Celliff 16 DOX, Weveguide REZ) 1.5 1.4 1.5 0.9 0.9 0.9 0.7 0.6 0.5 0.7 0.6 0.7 1.8 1.9 1.9 1.9 1.9 1.9 1.9 1.9



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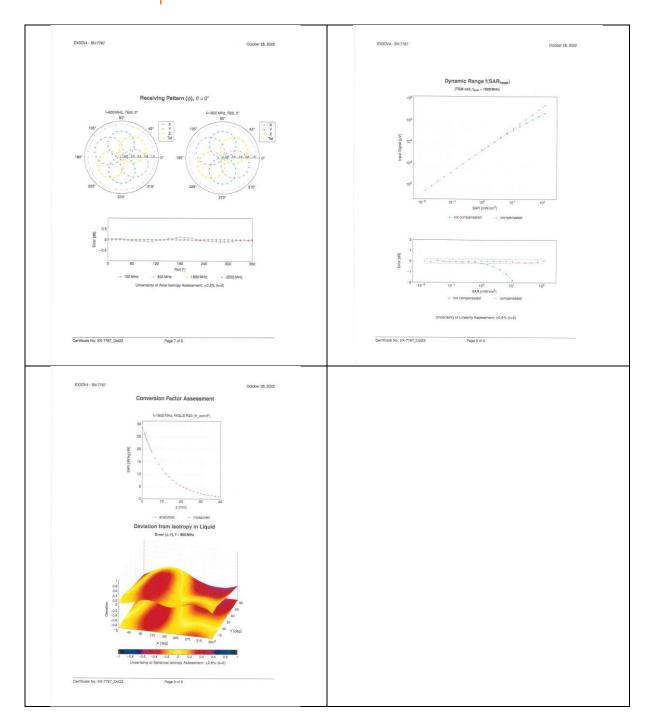
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4 Impedance and return loss

Dipole CLA150 SN 4025					
Head Liquid					
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ	
2021/4/26	-31.4	/	47.8	/	
2022/4/26	-32.5	-3.5%	47.1	-0.7	
Dipole D450V3 SN 1103					
Head Liquid					
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ	
2021/4/21	-23	/	57.1	/	
2022/4/26	-23.4	-1.74%	56.6	-0.5	



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