

Page: 1 of 25

Appendix C for KSCR221100235501

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
		5	D900V2	1d079	2022/06/07	2025/06/06
D: 1	\boxtimes	6	D1800V2	2d170	2022/03/31	2025/03/30
Dipole	\boxtimes	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
	\boxtimes	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

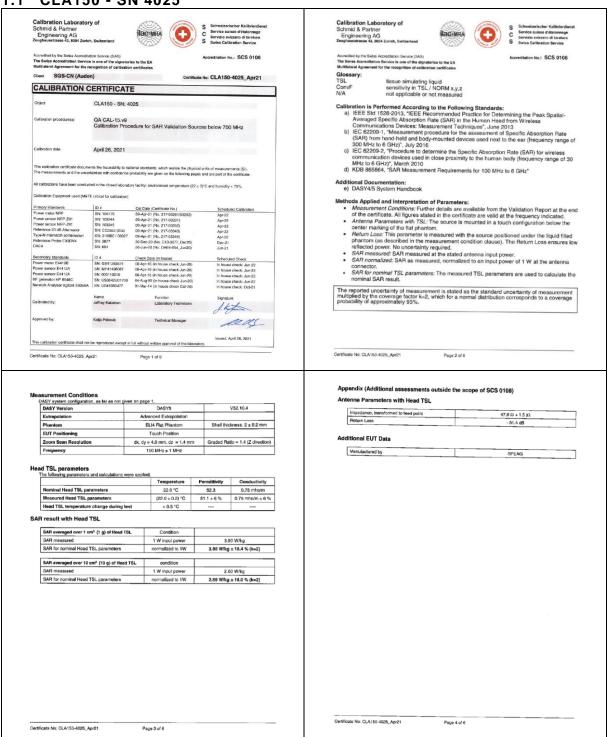




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1 Dipole

1.1 CLA150 - SN 4025

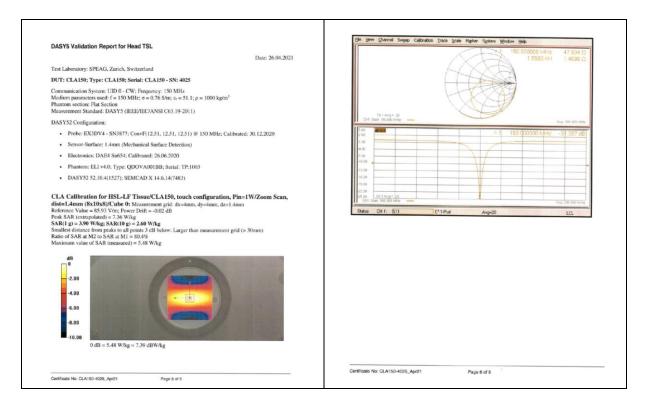




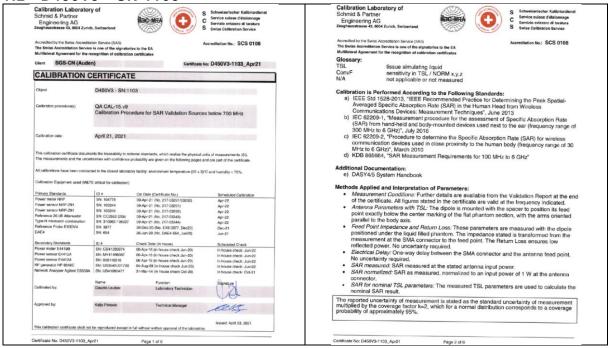
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D450V3 - SN 1103





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Measurement Conditions

DASY Version	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Pharitom	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 applied.	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 measured SAR for nominal Head TSL parameters

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)

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.

Additional EUT Data

Manufactured by	SPEAG

Certificate No: D450V3-1103_Apr21 Page 3 of 6

DASY5 Validation Report for Head TSL

Date: 21.04.2021

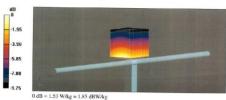
DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1103

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

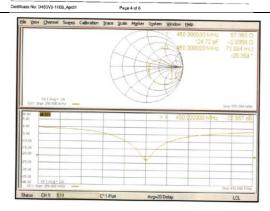
DASY52 Configuration:

- 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 Sn6S4; 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: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.18 V/m, Pwop Drift = 0.08 dB Peak SAR (extrapolated) = 1.76 W/kg SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.675 W/kg Smalles distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at W2 to SAR at M1 = 64.9% Maximum value of SAR (measured) = 1.53 W/kg



Certificate No: D450V3-1103_Apr21



Certificate No: D450V3-1103_Apr21

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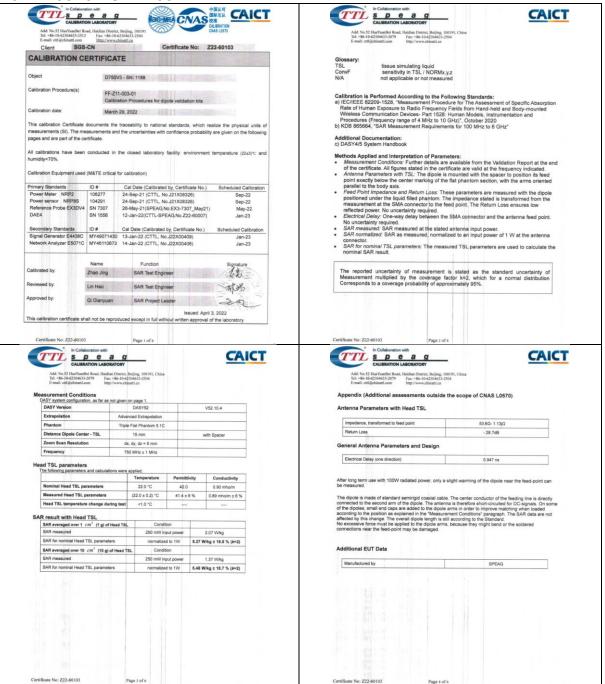
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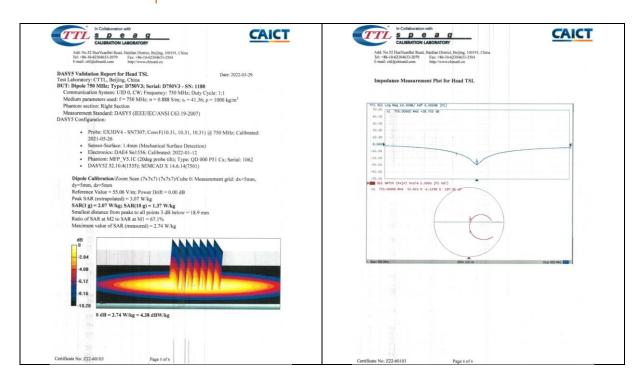
1.3 D750V3 - SN 1188







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1.4 D835V2 - SN 4d114





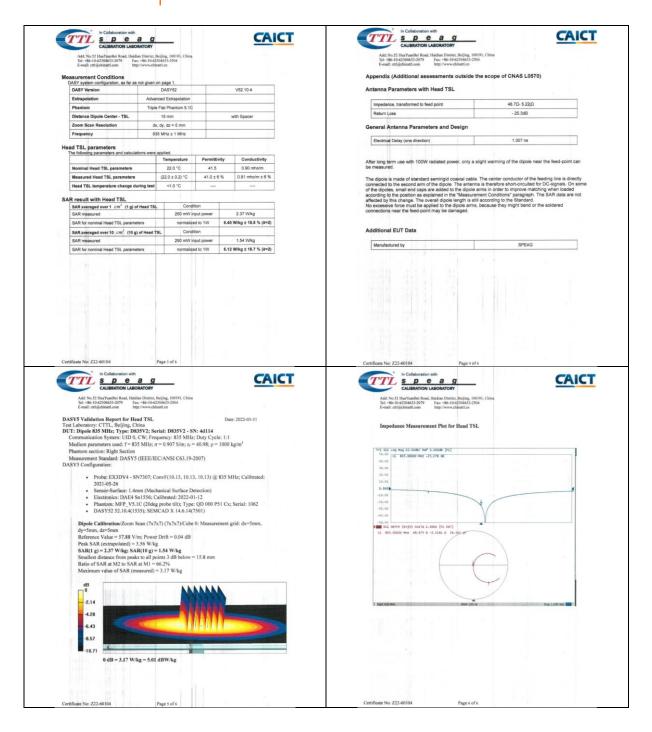
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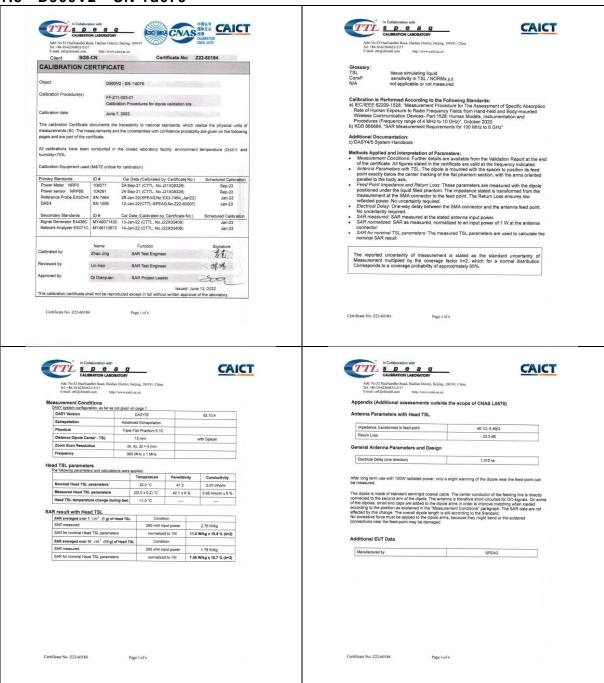






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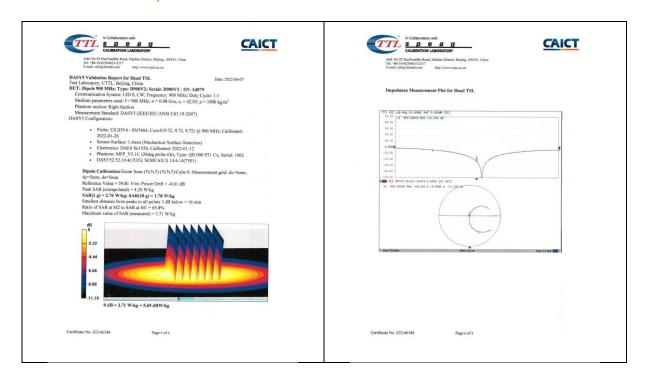
D900V2 - SN 1d079







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1.6 D1800V2 - SN 2d170





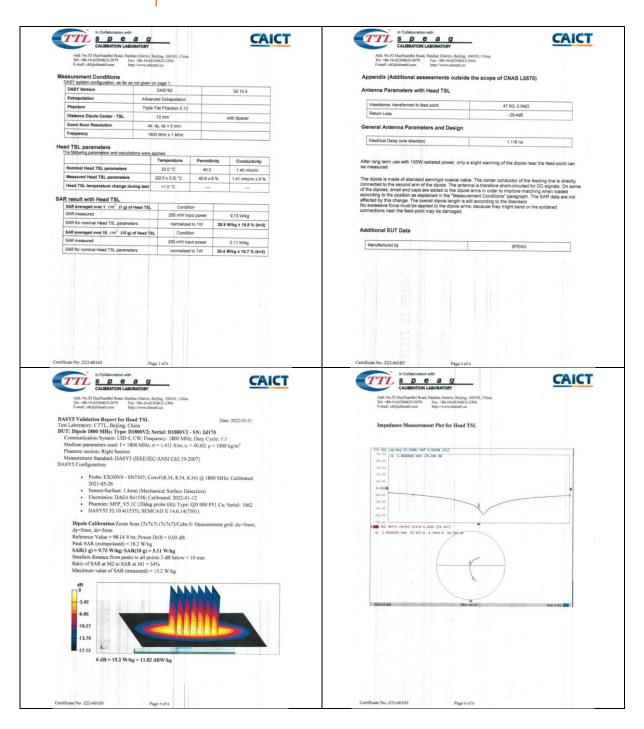
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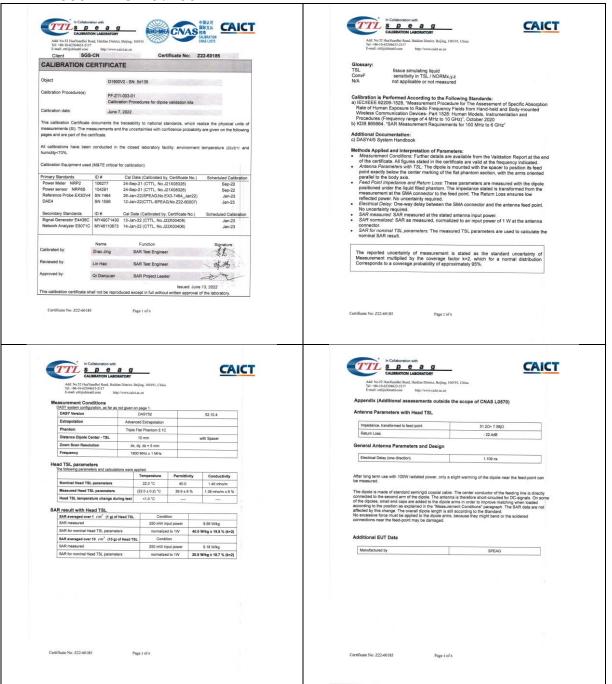






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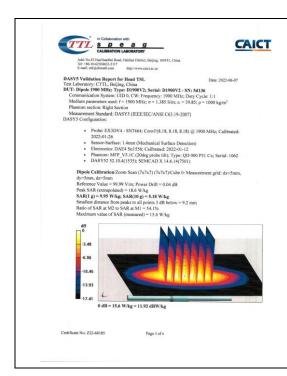
1.7 D1900V2 - SN 5d136

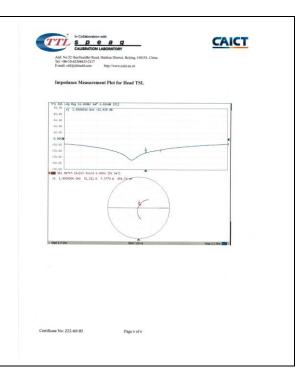




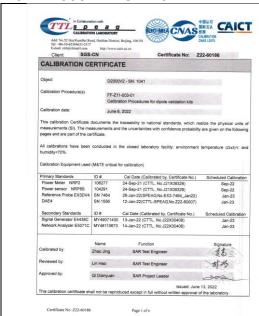


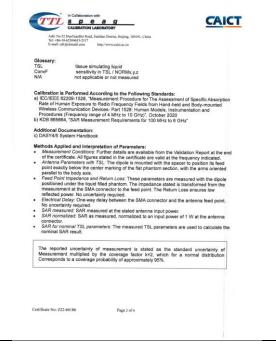
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1.8 D2000V2 - SN 1041







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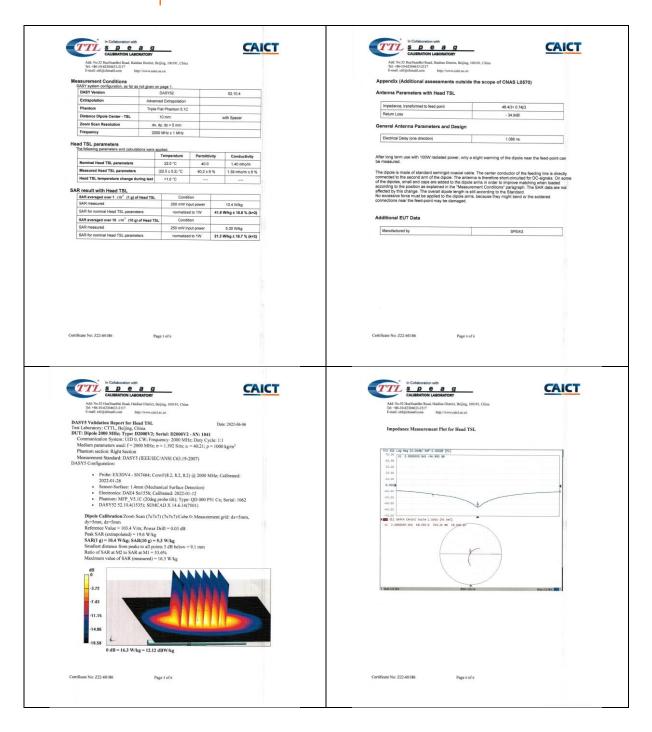
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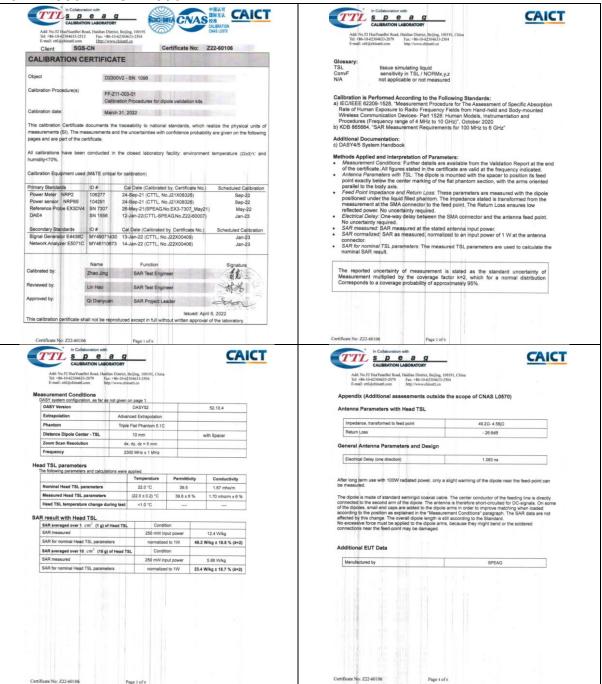






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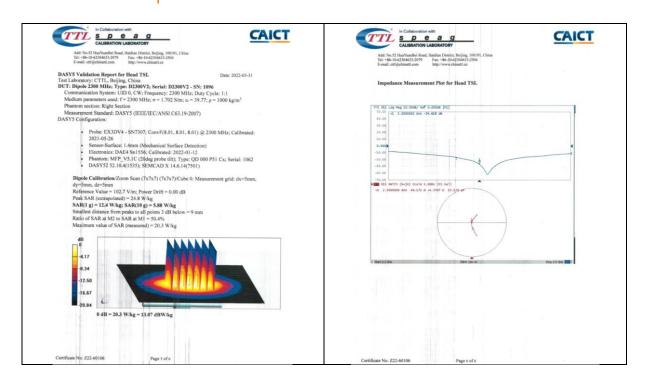
D2300V2 - SN 1096







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1.10 D2450V2 - SN 817





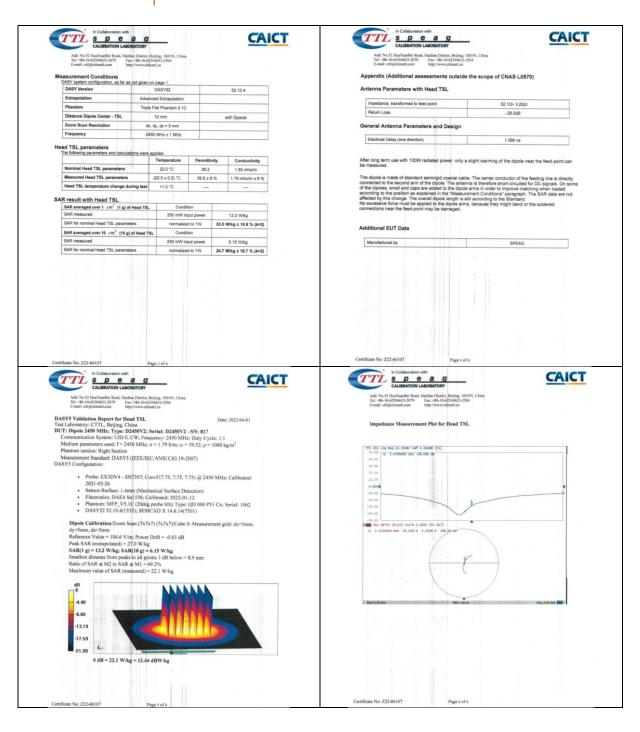
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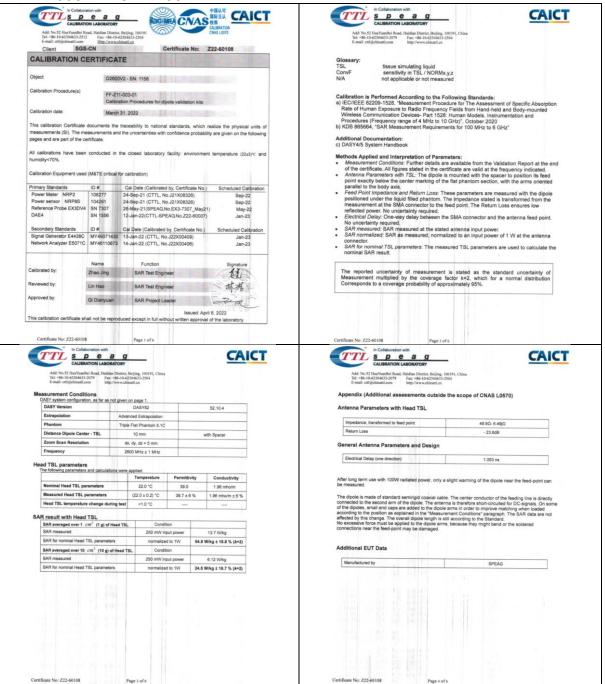






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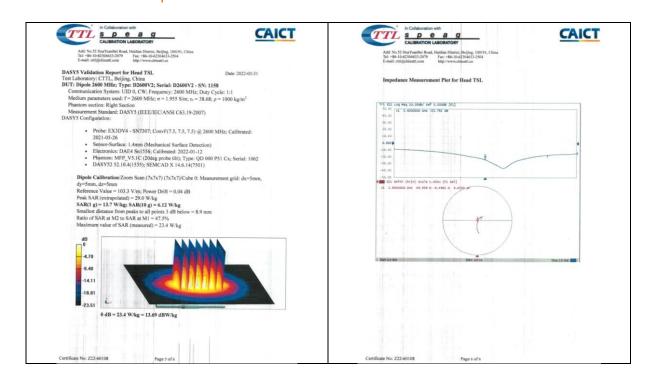
1.11 D2600V2 - SN 1158



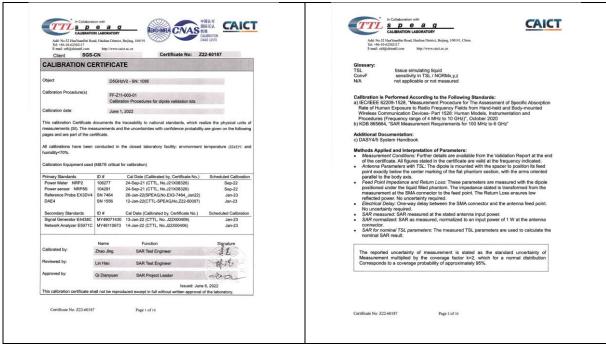




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1.12 D5GHzV2 - SN 1095





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CAICT

CAICT



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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 5800 MHz ± 1 MHz	

CAICT

CAICT

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 averaged over 1 cm ³ (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 ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.22 W/kg
CAD for remined bland TCI personnium	manufactured to 11A1	22 4 900- 4 24 2 5/ (6-2

Certificate No: Z22-60187

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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		-

	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
11 - 4 TO 1	-1010		

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Certificate No: Z22-60187

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ead TSL parameters at 5600MHz
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 %
Head TSL temperature change during test	<1.0 °C	_	-

| Condition | 100 mW input power | 8.12 W/kg | normalized to 1W | 80.8 W/kg ± 24.4 % (k=2) | Condition | SAR averaged over 10 $\ cm^3$ (10 g) of Head TSL SAR measured SAR for nominal Head TSL parameters

	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 %
Mand TEL transcriptor above a distantial	-4.0.40		

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
SAR for nominal Head TSL parameters	normalized to 1W	21.5 W/kg ± 24.2 % (k=2)

Certificate No: Z22-60187

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ndix (Additional assessments outside the scope of CNAS L0570)

nna Parameters with Head TSL at 5200MHz

Impedance, transformed to feed point	46.1Ω- 5.03jΩ	
Return Loss	- 23.6dB	

Antenna 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	
Return Loss	- 24.0dB	

Antenna Parameters with Head TSL at 5800MHz

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

Certificate No: Z22-60187

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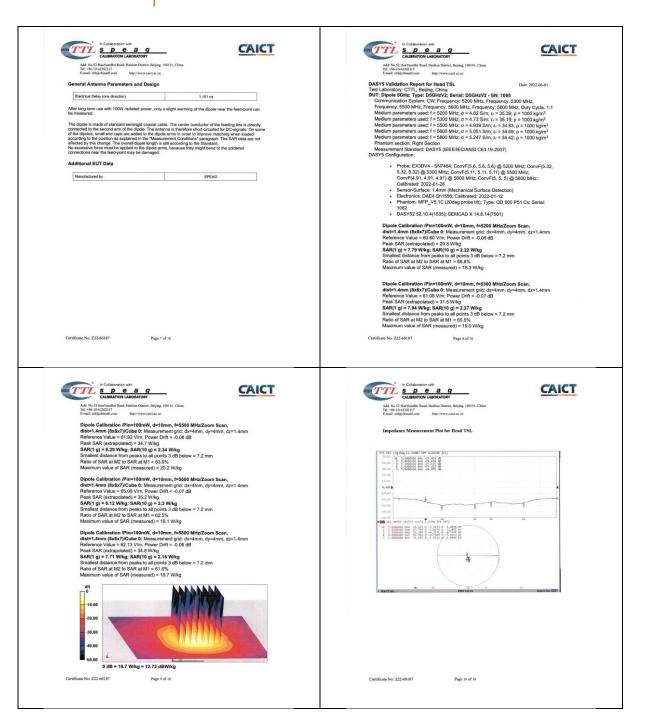
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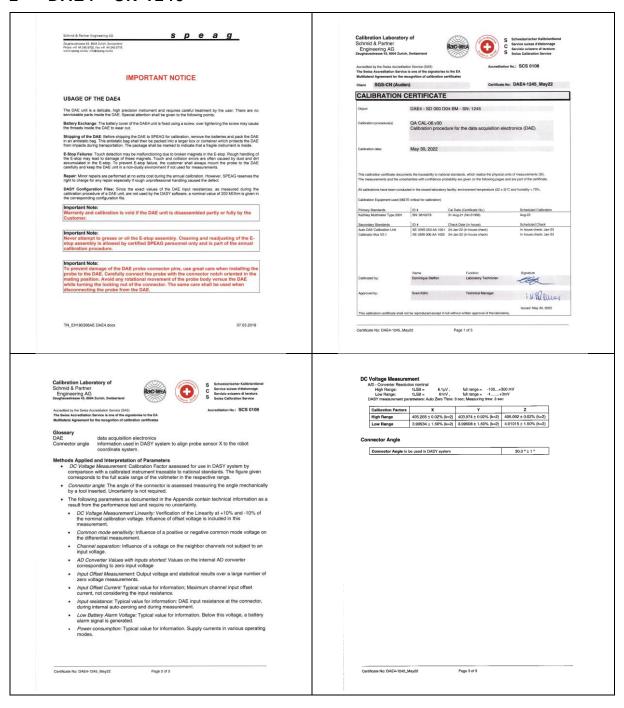






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DAE4 - SN 1245 2





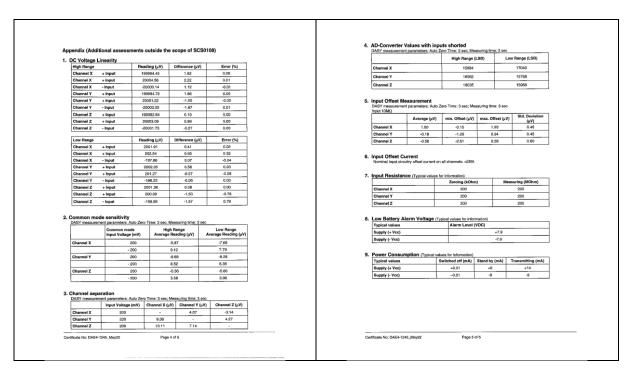
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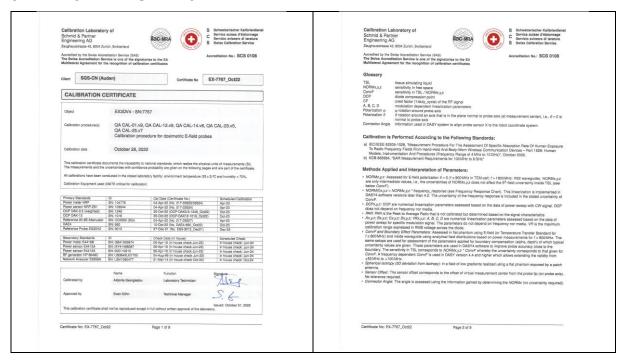
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EX3DV4 - SN 7767 3







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Couloer 39, 2002 Parameters of Probe: EX3DV4 - SN:7767 Basic Calibration Parameters Sensor Y Sensor Y Sensor Z Une (x - z) None (x/VVVIIII) X Sensor X Sensor Y Sensor Z Une (x - z) None (x/VVIIII) X Sensor	Parameters of Probe: EX3DV4 - SN:7767 Other Probe Parameters Connector Angular Connect
Cartificate No: EX-7762_Cod22 Page 5 of 9	Certificate No: EX-7787_On52 Page 4 of 9
Parameters of Probe: EXSOV4 - SN:7767	Frequency Response of E-Field (TBM-Celt.IRT10 EDG., Waveguide R22) 1.1 1.2 1.3 1.3 1.4 1.3 1.5 1.4 1.3 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.5



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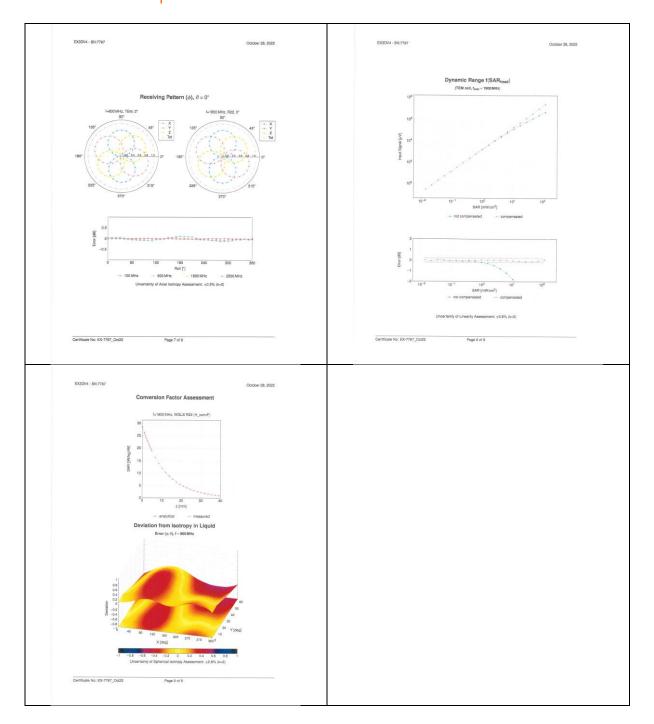
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No.10 Weiye Road, Development Zone, Kunshan, Jiangsu, China 215300 t/(86-512) 57355888 f/(86-512) 57370818 www.sgsgroup.com.cn
中国・江苏・昆山开发区伟业路10号 邮编: 215300 t/(86-512) 57355888 f/(86-512) 57370818 sgs.china@sgs.com





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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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