

Page: 1 of 26

Appendix C for KSCR230500078901

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
		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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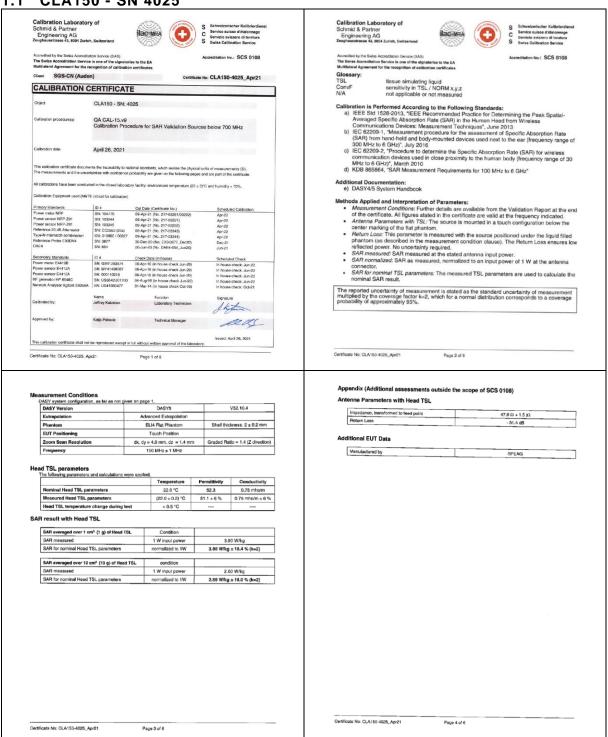
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Dipole 1

1.1 CLA150 - SN 4025



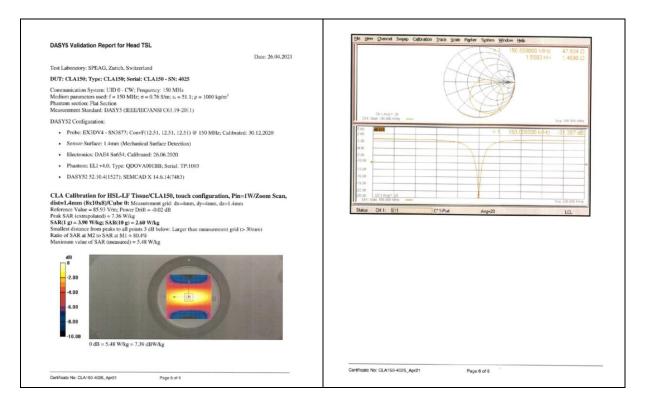


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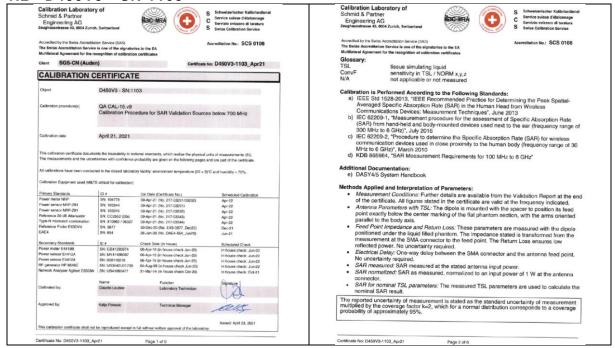
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D450V3 - SN 1103





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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	

he following parameters and calculations were appli-	led.		
	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	43.5	0.87 mhc/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 result with Head TSL

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 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)

na 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 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 it in "Measurement Conditions" paragraph. The SAR data are not affected by this charge. The overall dipole length is sell to exceed the Conditions of the conditions are not sell or the conditions of the conditions are not sell or the conditions of the conditions are not sell or the conditions of the conditions are not sell or the conditions

Additional EUT Data



Certificate No: D450V3-1103_Apr21 Page 3 of 6

Date: 21.04.2021

DASY5 Validation Report for Head TSL

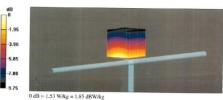
DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1103

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)

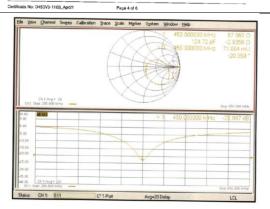
DASY52 Configuration:

- 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: 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

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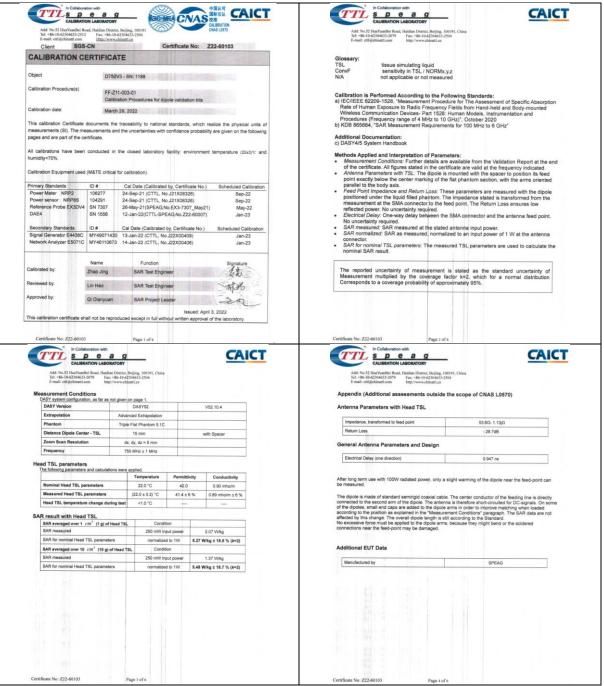
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1.3 D750V3 - SN 1188



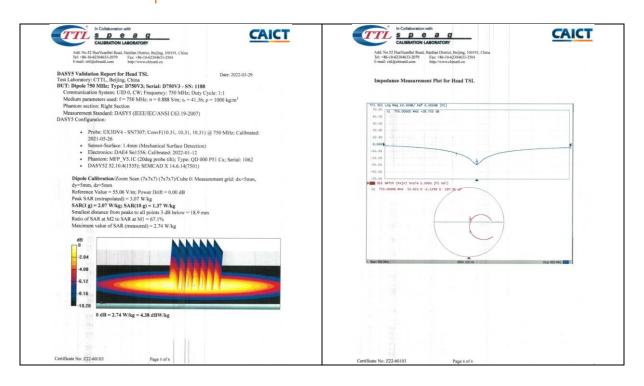


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1.4 D835V2 - SN 4d114



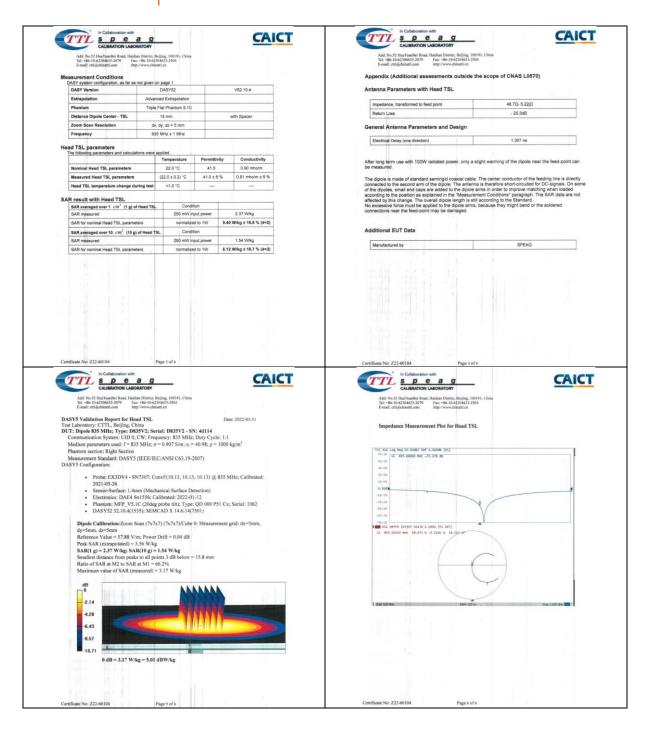


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1.5 D900V2 - SN 1d079



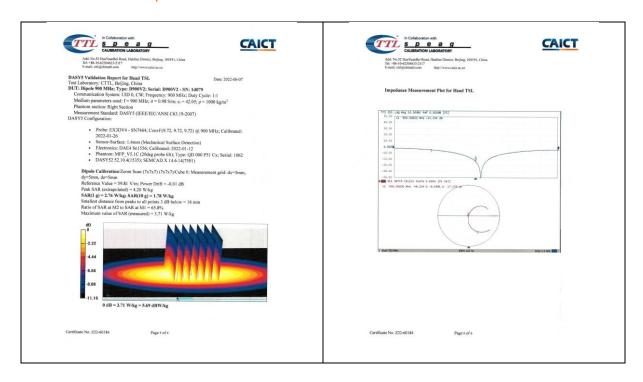


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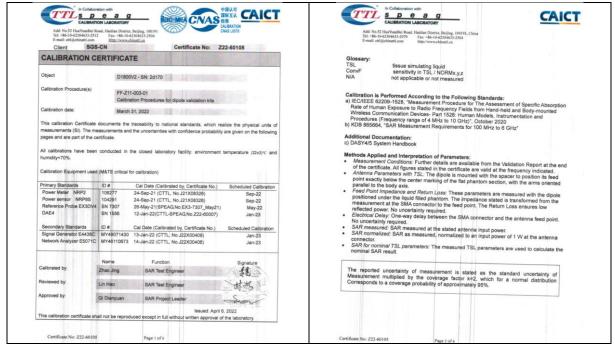
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1.6 D1800V2 - SN 2d170



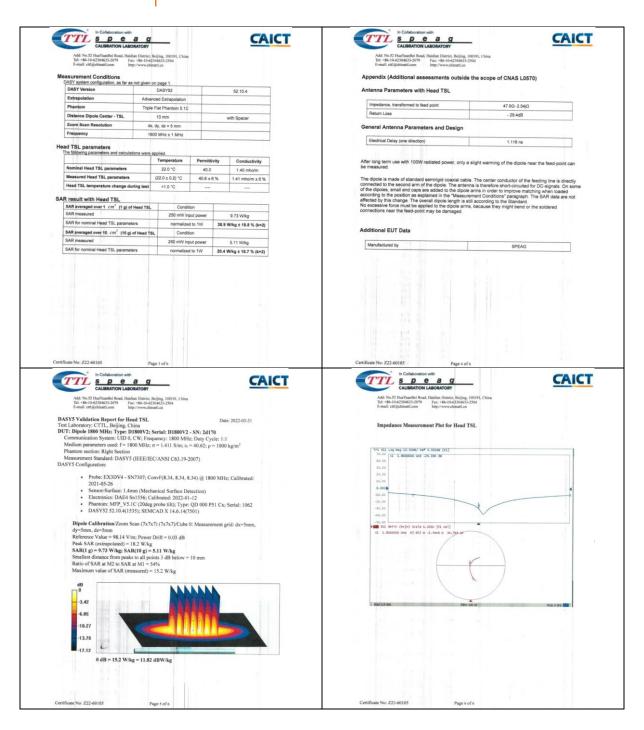


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1.7 D1900V2 - SN 5d136



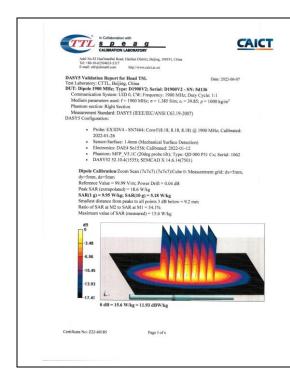


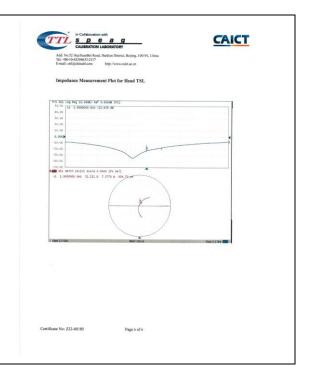
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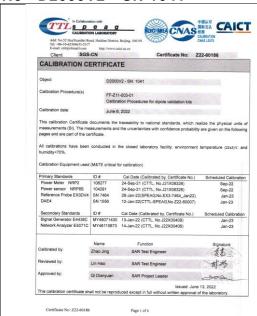


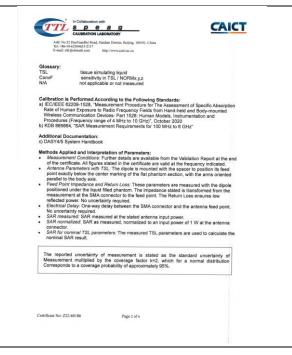
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1.8 D2000V2 - SN 1041





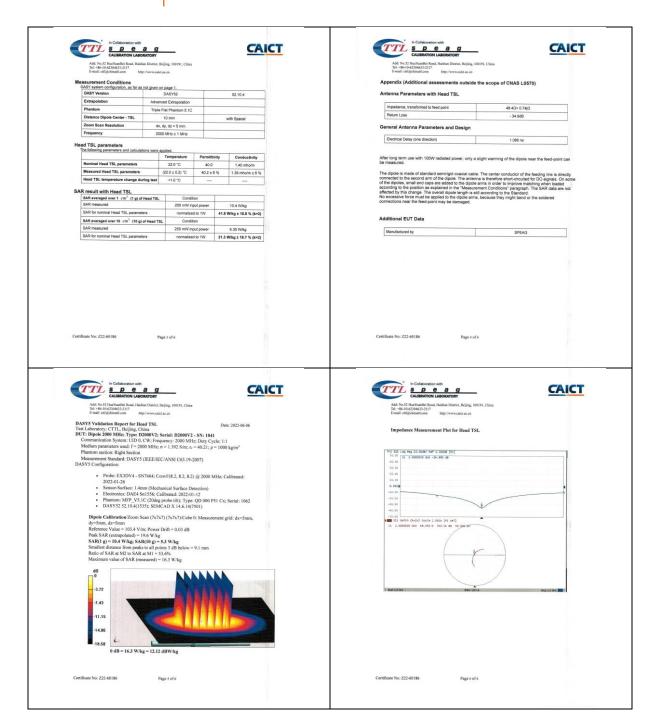


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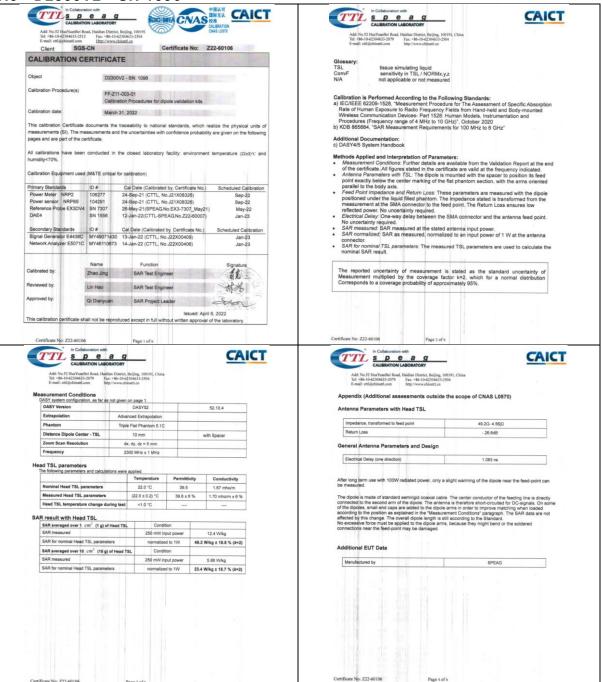
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1.9 D2300V2 - SN 1096



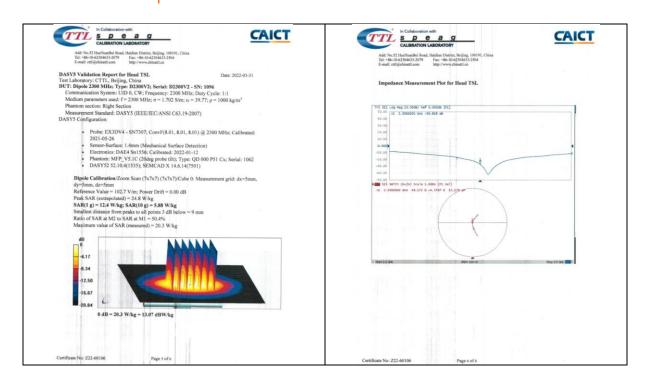


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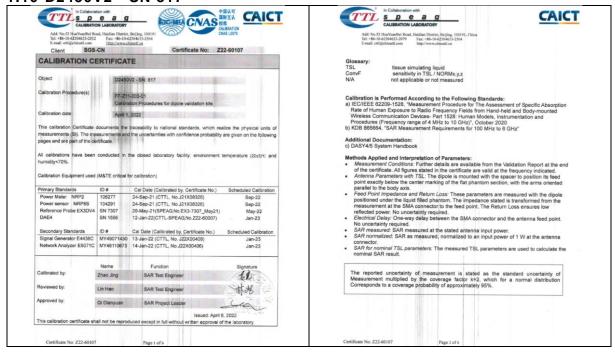
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1.10 D2450V2 - SN 817



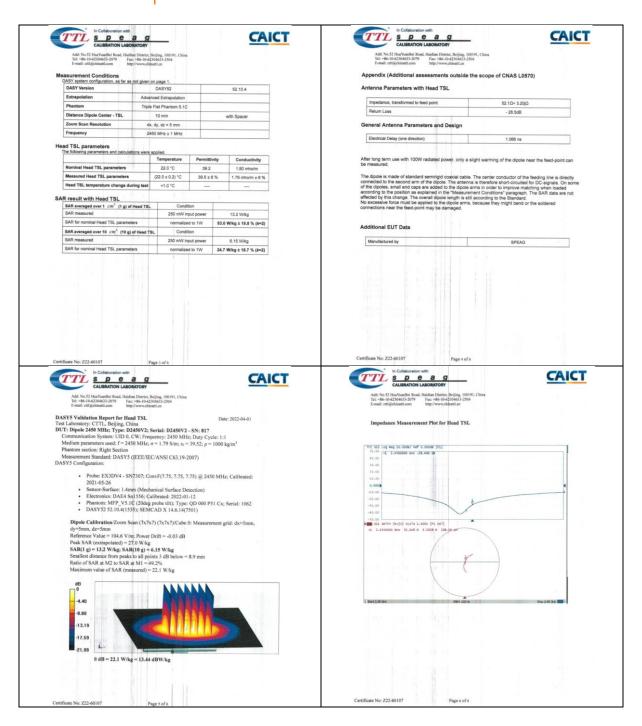


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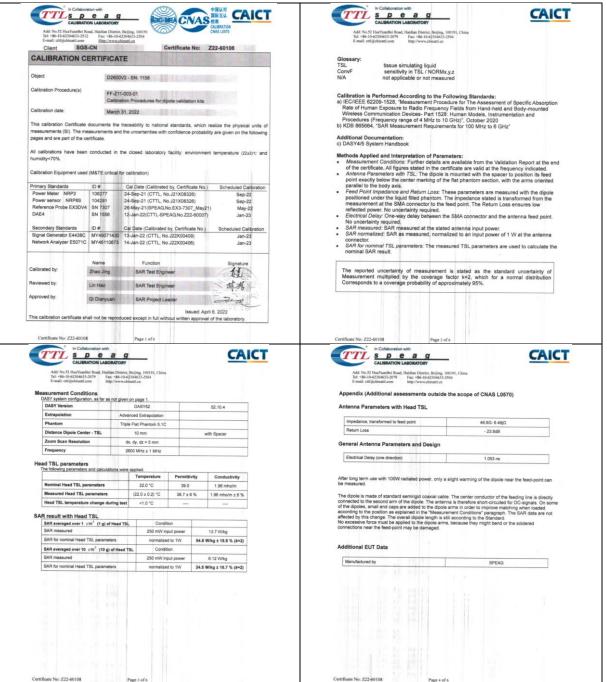
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1.11 D2600V2 - SN 1158



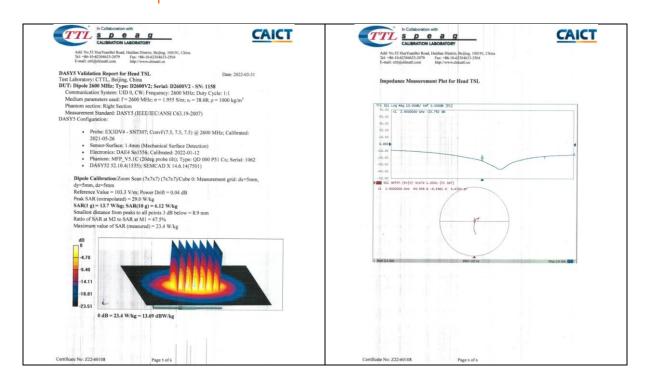


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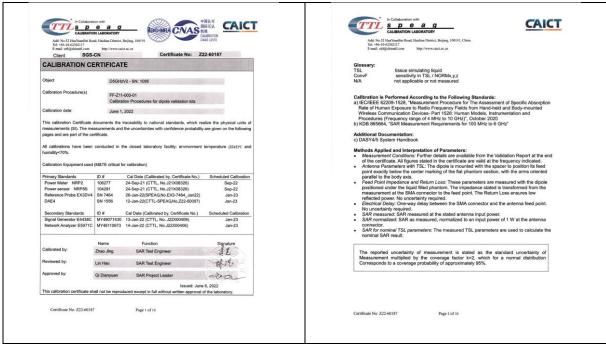
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1.12 D5GHzV2 - SN 1095





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ASY system configuration, as far as		_
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 TSL at 5200MHz

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
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		-

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 nominal Head TSL parameters	normalized to 1W	22.6 W/kg ± 24.2 % (k=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 %
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 %
Head TSL temperature change during test	<1.0 °C	_	-

SAR result with Head TSL at 5600MHz

100 mW input power	8.12 W/kg
normalized to 1W	80.8 W/kg ± 24.4 % (k=2)
Condition	
100 mW input power	2.30 W/kg
normalized to 1W	22.9 W/kg ± 24.2 % (k=2)
	100 mW input power normalized to 1W Condition 100 mW input power

Head TSL parameters at 5800MHz

	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 TSI temperature change during test	<10°C		100.00

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 ² (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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essments outside the scope of CNAS L0570)

tenna Parameters	with Head TSL	at 5200MHz	

46.1Ω- 5.03)Ω	
- 23.6dB	

Return Loss	- 29.5dB	
Antenna Parameters with Head TSL at 550	OMHz	

Impedance, transformed to feed point

Return Loss	- 27.4dB	
ntenna Parameters with Head TSI at 56001		

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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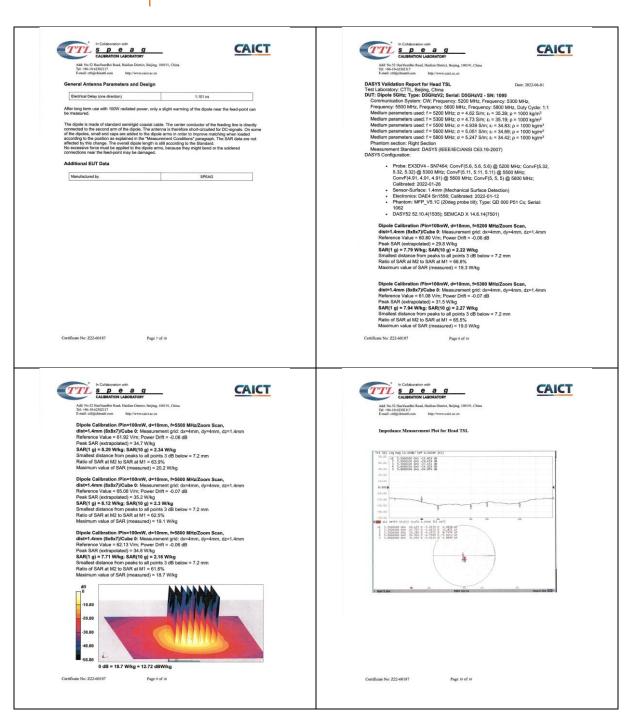


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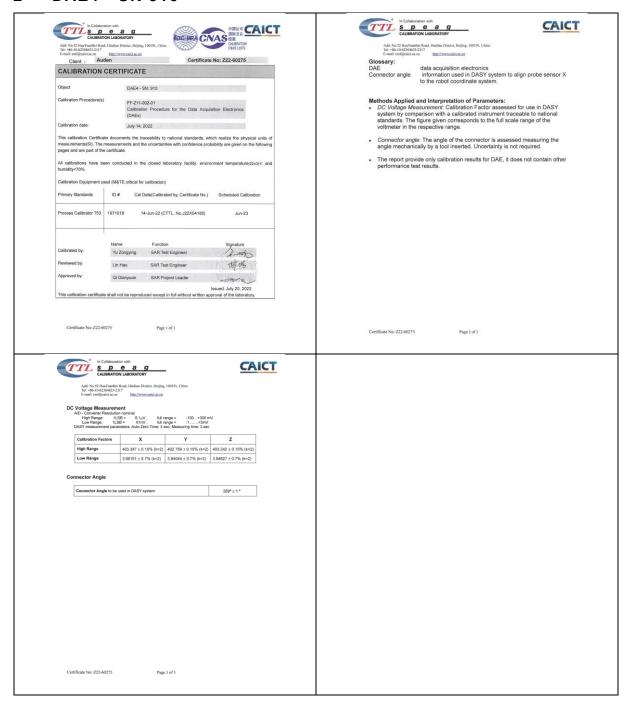
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2 DAE4 - SN 910





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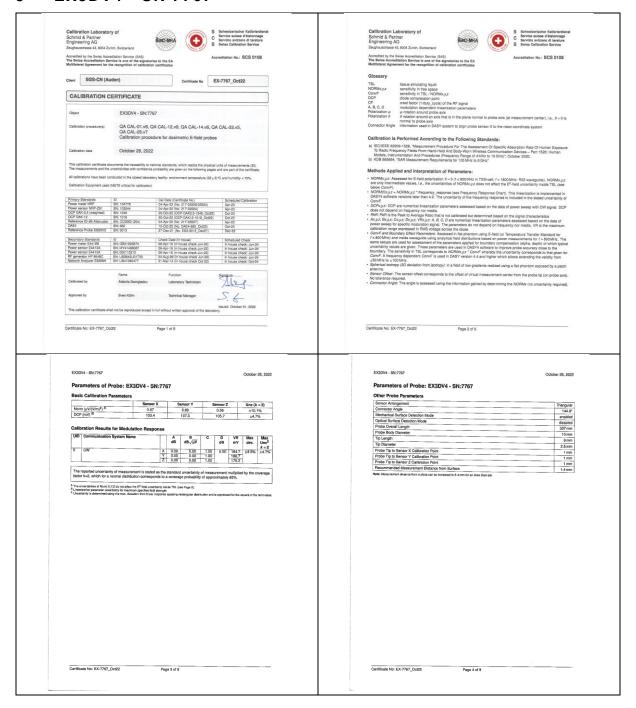
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3 EX3DV4 - SN 7767





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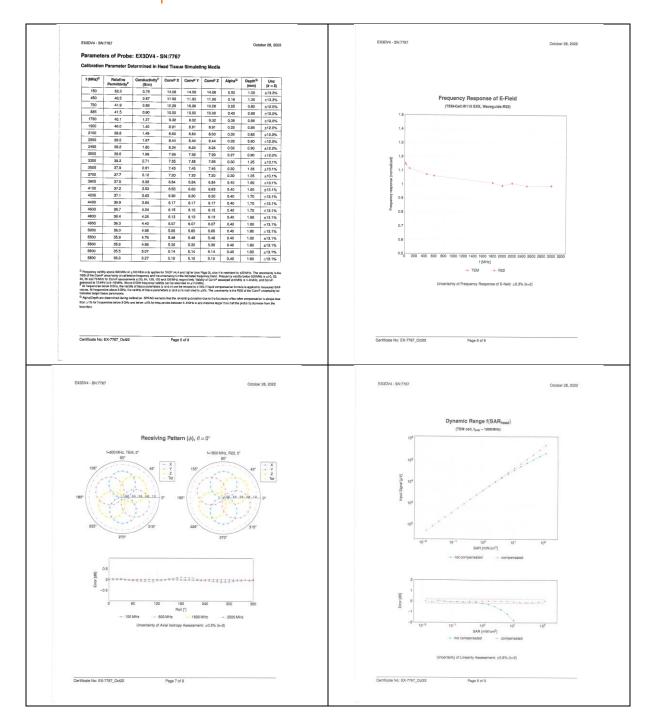
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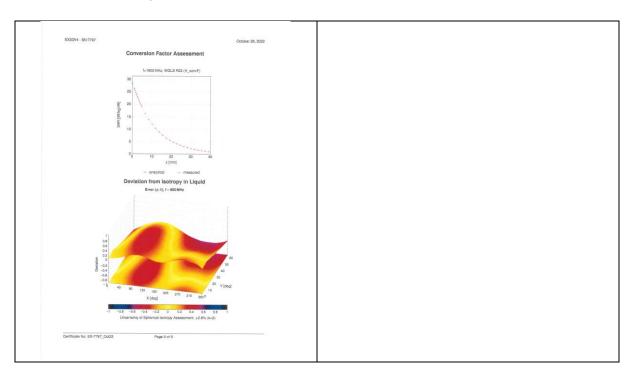
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4 Impedance and return loss

	Dipole Cl	LA150 SN 4025		
	He	ad Liquid		
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ
2021/4/26	-31.4	1	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 D	450V3 SN 1103		
	He	ad 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
2023/4/26	-23.9	-3.91%	56.2	0.9
	Dipole D	750V3 SN 1188		
	He	ad Liquid	,	
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2022/3/29	-28.7	1	53.6	1
2023/3/29	-28.3	1.39%	53.2	0.4
	Dipole D8	35V2 SN 4d114		
	He	ad Liquid	<u> </u>	
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 D9	00V2 SN 1d079		
		ad Liquid		
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ
2022/6/7	-23.3	/	48.1	1
2023/6/7	-23.6	-1.29%	48.3	0.2
	•	800V2 SN 2d170		
Ţ		ad 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
		900V2 SN 5d136		
		ad Liquid	T	
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2022/6/7	-22.4	/	51.2	/
	•	2000V2 SN 1041		
		ad Liquid	T	
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2022/6/6	-34.9	/	48.4	/
	•	300V2 SN 1096		
	He	ad Liquid		



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Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2022/3/31	-26.6	/	49.2	/			
2023/3/31	-27.1	-1.88%	49.4	0.2			
Dipole D2450V2 SN 817							
Head Liquid							
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2022/4/1	-28.5	/	52.1	/			
2023/4/1	-28.0	1.75%	51.6	0.5			
Dipole D2600V2 SN 1158							
Head Liquid							
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2022/3/31	-23.8	/	49.9	/			
2023/3/31	-23.3	2.10%	50.3	0.4			
Dipole D5GHzV2 SN 1095 for 5200							
Head Liquid							
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2022/6/1	-23.6	/	46.1	/			
Dipole D5GHzV2 SN 1095 for 5300							
Head Liquid							
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2022/6/1	-29.5	/	47.8	/			
Dipole D5GHzV2 SN 1095 for 5500							
Head Liquid							
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2022/6/1	-27.4	/	50.3	/			
Dipole D5GHzV2 SN 1095 for 5600							
Head Liquid							
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2022/6/1	-24.0	/	54.5	/			
Dipole D5GHzV2 SN 1095 for 5800							
Head Liquid							
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2022/6/1	-24.9	/	51.5	/			



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