

Page: 1 of 25

Appendix C for KSCR230200014004

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	1245	2022/05/30	2023/05/29
Probe	\boxtimes	14	EX3DV4	7767	2022/10/28	2023/10/27



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unduly and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CAD.Doccheck@ass.com"

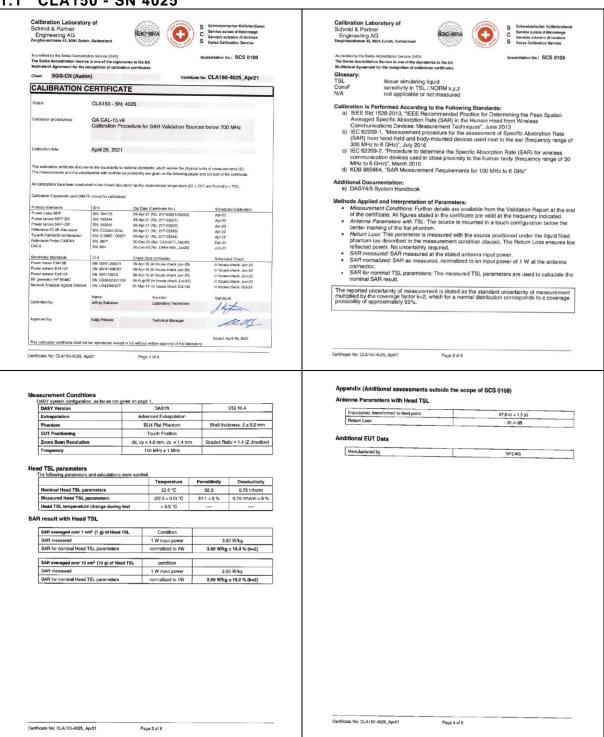
oremail: <u>CN.Doccheck@sgs.com</u>
No.10 Weiye Road, Development Zone, Kunshan, Jiangsu, China 215300 机86-512) 57355888 (186-512) 57370818 www.sgsgroup.com.cn 中国・江苏・昆山开发区伟业路10号 邮编: 215300 机86-512) 57355888 (186-512) 57370818 sgs.china@sgs.com



Page: 2 of 25

Dipole 1

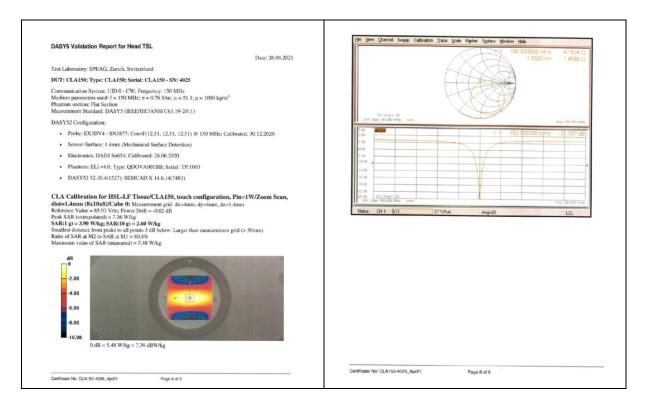
1.1 CLA150 - SN 4025



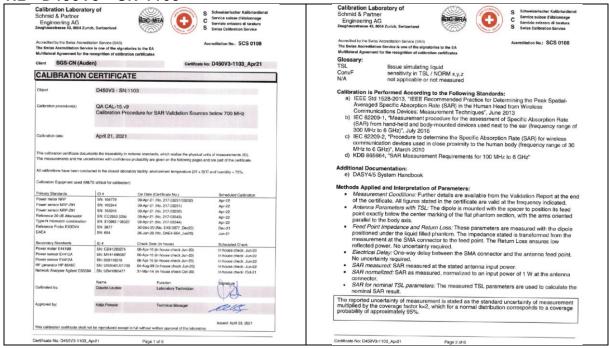




3 of 25 Page:



D450V3 - SN 1103





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exponsate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unique and ended refers may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CMD.Doccheck@ass.com"



Page: 4 of 25

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 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 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 averaged over 10 cm ³ (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 - 2.8 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
	0.2.0

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

DASY5 Validation Report for Head TSL

Test Laboratory: SPEAG, Zurich, Switzerland

Date: 21.04.2021

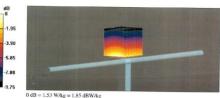
DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1103

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

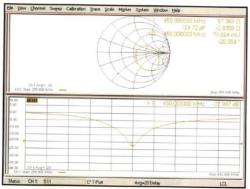
DASY52 Configuration:

- 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



Page 4 of 6

Certificate No: D450V3-1103_Apr21 Page 6 of 6



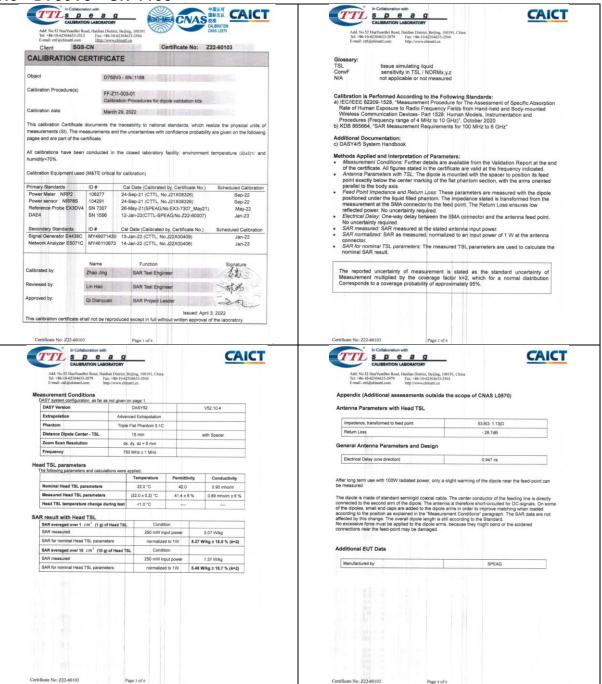
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.ags.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined these any hoteler that document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CADoccheck@ass.com



5 of 25 Page:

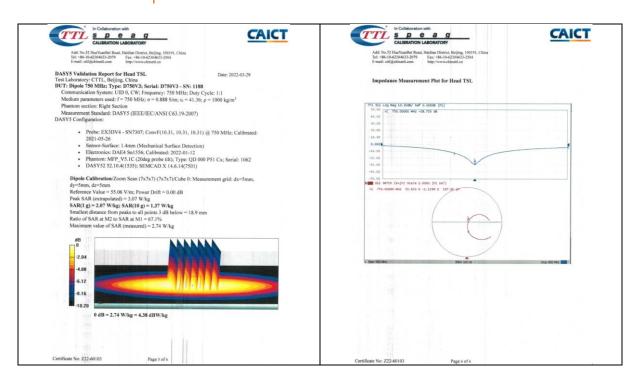
1.3 D750V3 - SN 1188







6 of 25 Page:



1.4 D835V2 - SN 4d114



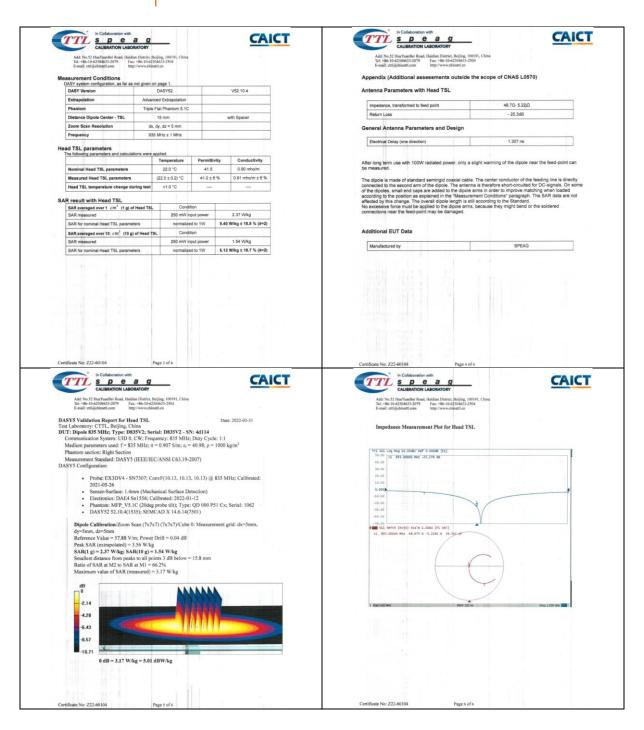


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exponsate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unique and ended refers may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CMD.Doccheck@ass.com"



Page: 7 of 25





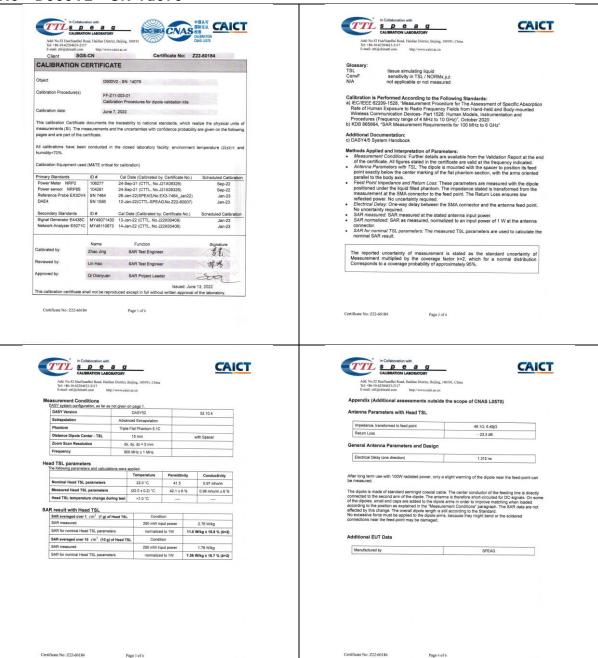
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exponsate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unique and ended refers may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CMD.Doccheck@ass.com"



Page: 8 of 25

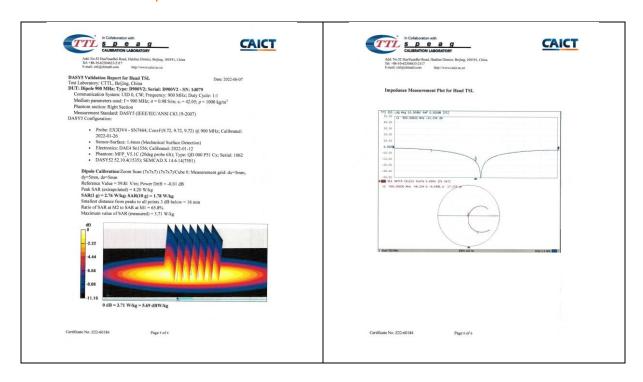
1.5 D900V2 - SN 1d079



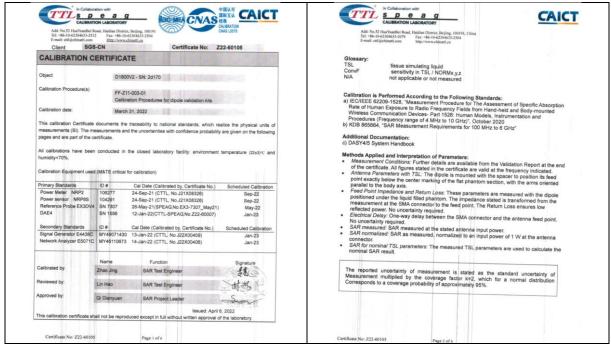




Page: 9 of 25



1.6 D1800V2 - SN 2d170



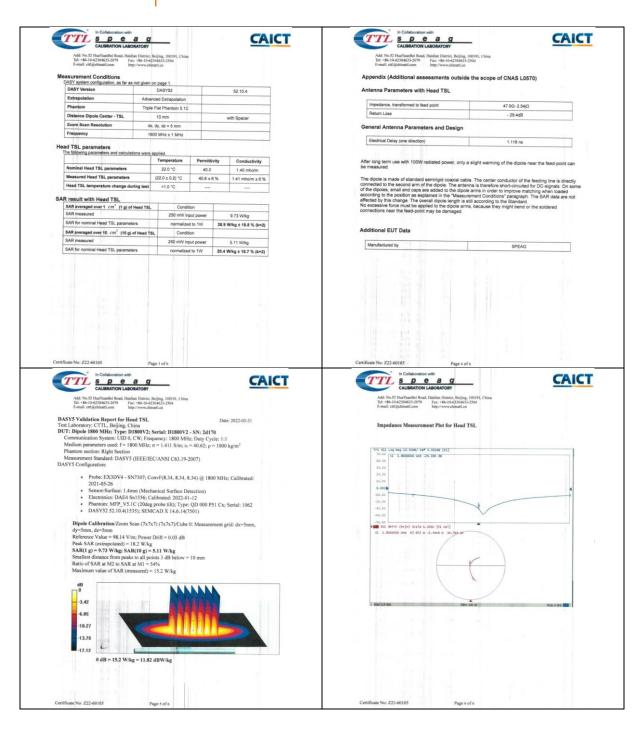


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exponsate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unique and ended refers may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CMD.Doccheck@ass.com"



Page: 10 of 25





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exponsate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unique and ended refers may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CMD.Doccheck@ass.com"



Page: 11 of 25

1.7 D1900V2 - SN 5d136



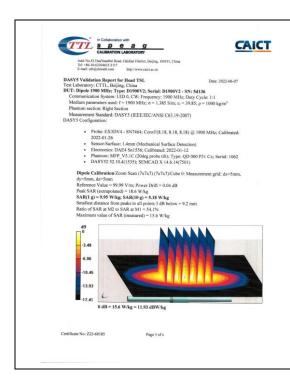


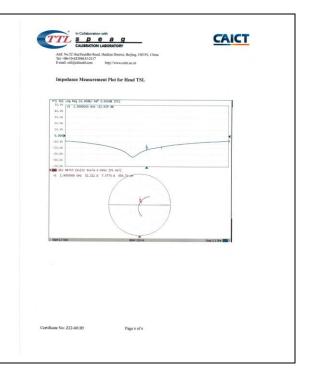
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exponsate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unique and ended refers may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CMD.Doccheck@ass.com"

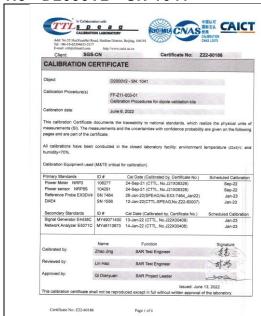


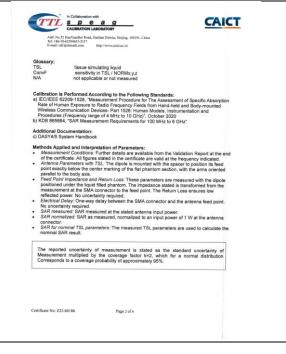
12 of 25 Page:





1.8 D2000V2 - SN 1041





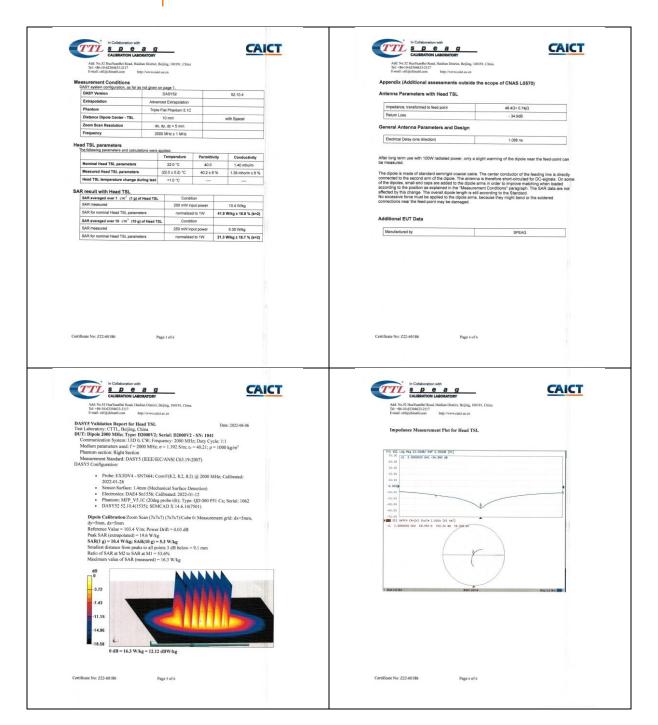


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exponsate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unique and ended refers may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CMD.Doccheck@ass.com"



Page: 13 of 25





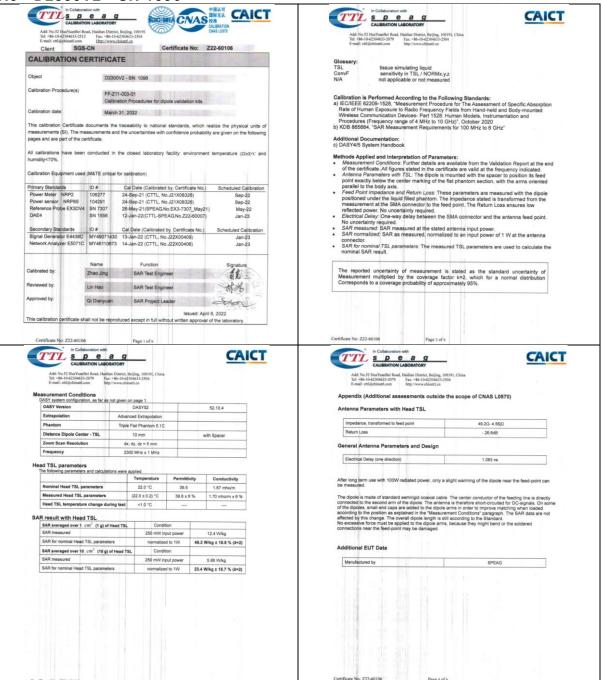
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.ags.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined these any hoteler that document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CADoccheck@ass.com



14 of 25 Page:

1.9 D2300V2 - SN 1096



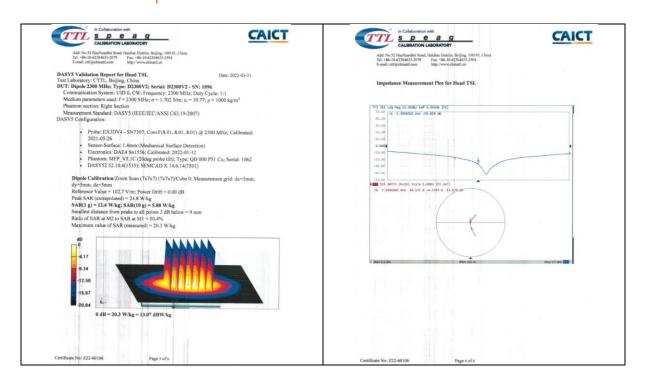


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exponsate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unique and ended refers may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CMD.Doccheck@ass.com"



15 of 25 Page:



1.10 D2450V2 - SN 817



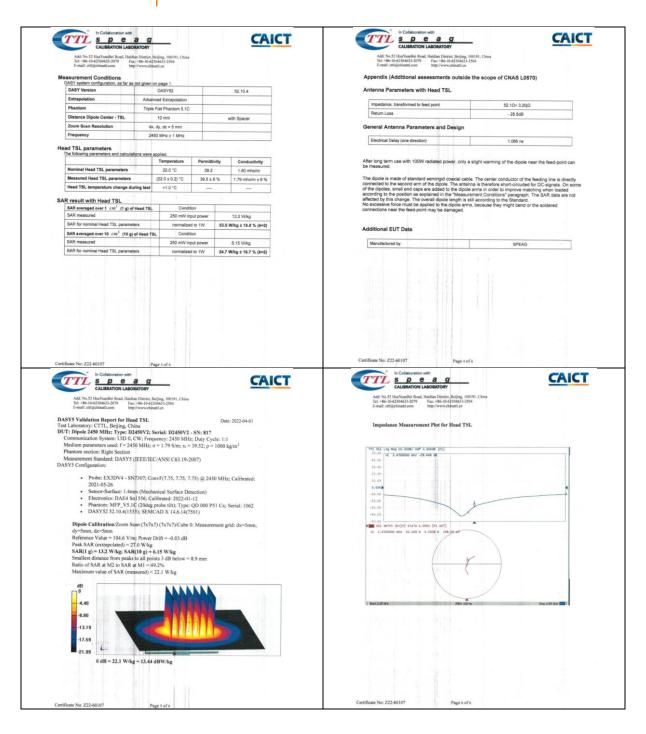


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exponsate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unique and ended refers may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CMD.Doccheck@ass.com"



16 of 25 Page:

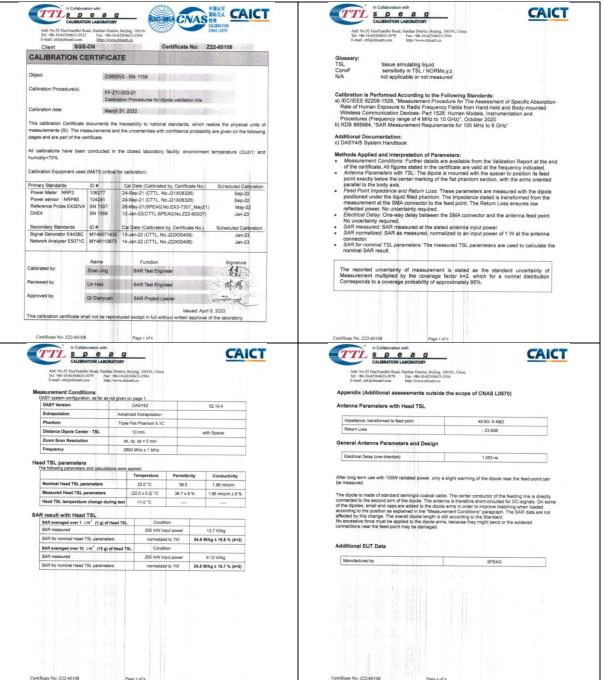






Page: 17 of 25

1.11 D2600V2 - SN 1158



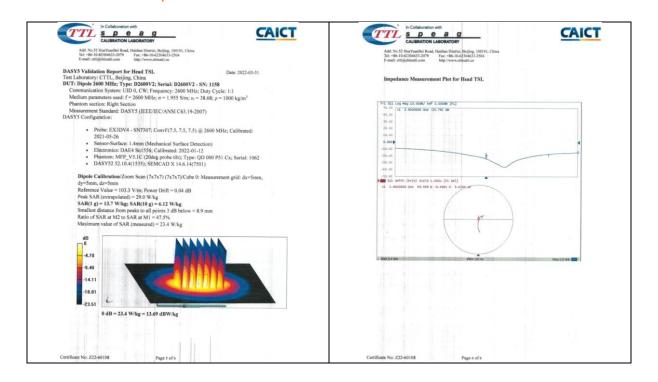


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exponsate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unique and ended refers may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

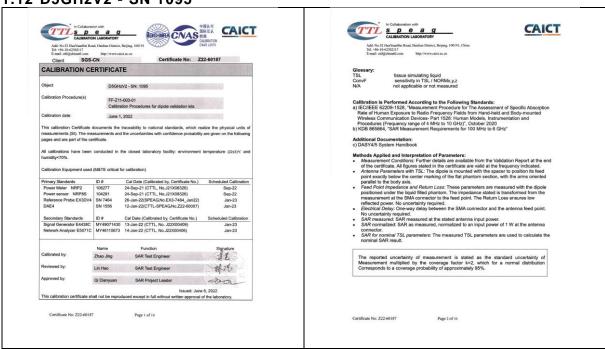
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CMD.Doccheck@ass.com"



Page: 18 of 25



1.12 D5GHzV2 - SN 1095





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exponsate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unique and ended refers may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CMD.Doccheck@ass.com"



Page: 19 of 25

CAICT

CAICT



CAICT

CAICT

asurement 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	

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 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
PAR for reminal bland TCI parameters	normalized to SIAI	22 4 9/2- 4 24 2 5/ /5-2

Certificate No: Z22-60187

Page 3 of 10



Head TSL parameters at 5300MHz
The following parameters and calculations were applied

	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 TSL at 5300MHz

SAR averaged over 1 cm ³ (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)

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)

Certificate No: Z22-60187

Page 4 of 10



	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	1-0	-

AR result with Head TSL at 5600MHz

SAR averaged over 1 CM: (1 g) of Head 1St.	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
SAR for nominal Head TSL parameters	normalized to 1W	22.9 W/kg ± 24.2 % (k=2)

he following parameters and calculations were	applied.		
	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 Heart TSL narameters	pormalized to 1W	21 5 W/kn + 24 2 % (km2

Certificate No: Z22-60187



dix (Additional assessments outside the scope of CNAS L0570)

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

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

Antenna Parameters with Head TSL at 5600MHz

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

Page 6 of 10

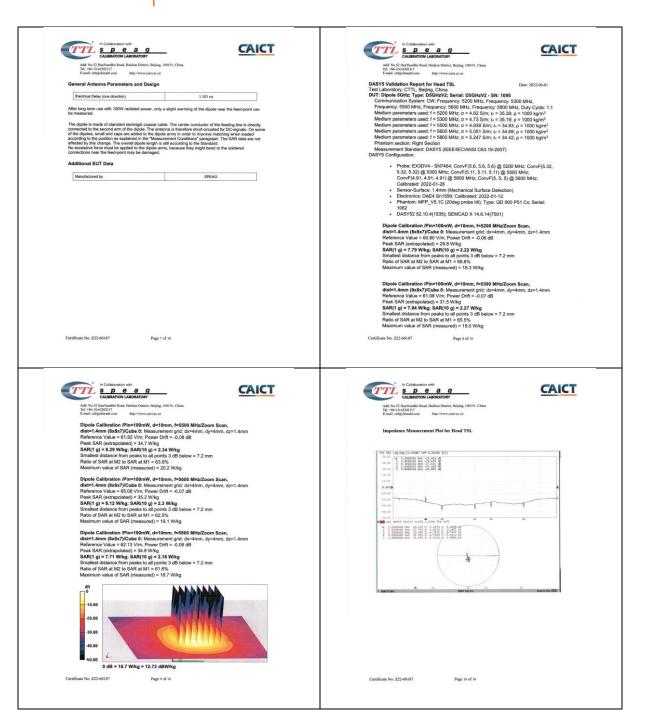


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unduly and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CAD.Doccheck@ass.com"



20 of 25 Page:

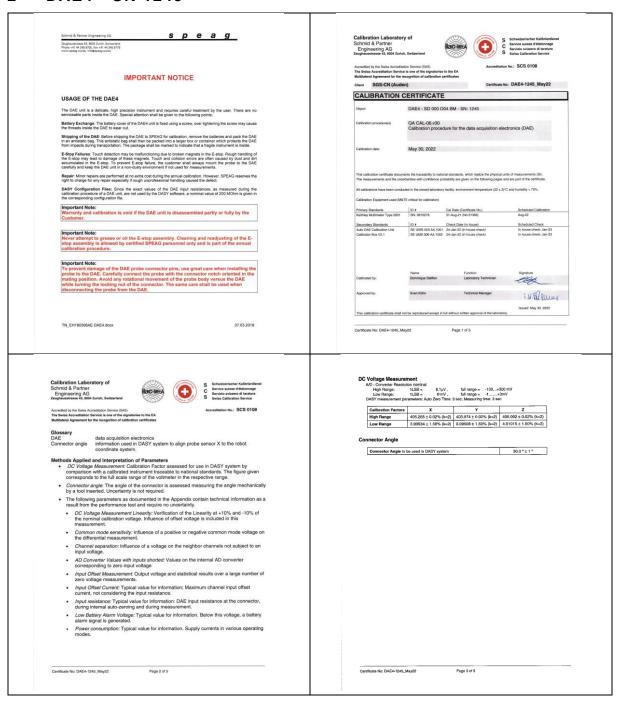






21 of 25 Page:

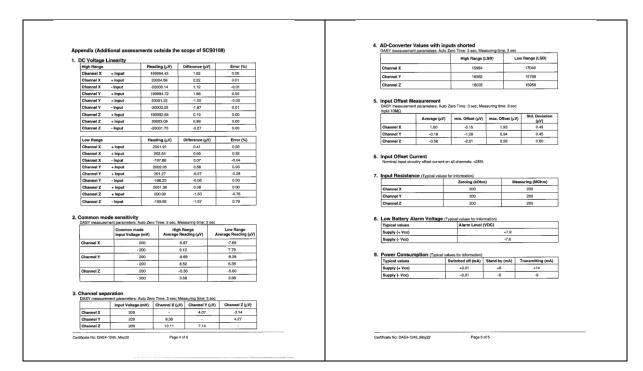
2 **DAE4 - SN 1245**



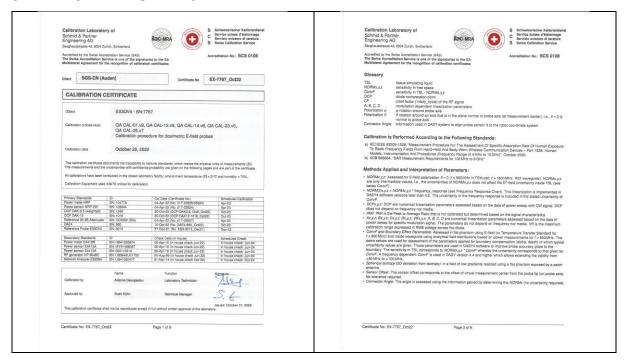




Page: 22 of 25



EX3DV4 - SN 7767 3





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.ags.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined these any hoteler that document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CADoccheck@ass.com



Page: 23 of 25

EX3DV4 - SN:7767 October 28,	, 2022 EXIDW 4-59x7767 October 28, 2022
Parameters of Probe: EX3DV4 - SN:7767	Parameters of Probe: EX3DV4 - SN:7767
Basic Calibration Parameters	Other Probe Parameters
Sengar Y Sengar Y Sengar 7 Har th. C	Sensor Arrangement
	2) Semisor Arrangement Triangular Commence Arrangement
Norm (y/V/(Vim) ^E) A 0.67 0.69 0.56 ±10.1% DCP (mV) B 103.4 107.3 105.7 ±4.7%	Commotor Angle Commotor Angle 144.8° Mechanical Surface Detection Mode anabled
107.5 105.7 ±4.7%	Optical Surface Detection Mode disabled
Calibration Beauty to Madulate Brown	Probe Overall Length 337 mm
Calibration Results for Modulation Response	Proba Book Diameter
UID Communication System Name A B C D VR Max II.	Max Tip Length 9 mm
dB dB√μV dB mV dev. U	Max Tip Length 9mm
0 CW X 0.00 0.00 1.00 0.00 164.7 ±3.5% ±4	k = 2 2.5 mm 2.76 Probe Tip to Sensor X Calibration Point
Y 0.00 0.00 1.00 186.7 23.5%	Probe Tip to Seneor X Calibration Point 1 mm Probe Tip to Seneor Y Calibration Point 1 mm
Y 0.80 0.00 1.00 186.7 Z 0.00 0.00 1.00 175.3	Probe Tip to Sensor Y Calibration Point 1 mm Probe Tip to Sensor Z Calibration Point 1 mm
	December of different Property and Property
The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the cover factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 85%.	Note: Moiss varient distance from subsection to horseled in a notation of the control of the con
factor kind, which for a normal distribution corresponds to a coverage probability of approximately 55%. The vice-relatives of Horm X-Y-Z do not allest the E ² -feet uncertainty incide TIII. (see Page 5). Uncertaint prevailable requiring for maximum specified field awaysh. Uncertainty of advantage of the Section from these response applying redamptine distribution and is expressed for the square of the fact	The state of the s
umentation palaritari unichanny or multimul spected test alweyte. Umentation palaritari unichanny or multimul spected test alweyte. Umentation in determined salog the mus, dissean from trear response quipling redesigate destination and is expressed to the especie of the labble	d water
Certificate No: EX-7767_Oct22 Page 3 of 9	Certificate No: EX-7767_Oct22 Page 4 of 9
, 4ge 3 or 3	Page 4 or 9
BX3GV4 - SN:2787 Cotation 28, Parameters of Probe: EX3DV4 - SN:7767 Calibration Parameter Determined in Head Tissue Simulating Media	, 2002 EXICH4 - SN.7787 Cotober 28, 2002
f (MHz) ^C Relative Conductivity ^F ConvF X ConvF Y ConvF Z Alpha ^G Deeth ^G Un	ме
	.396
0.0 17.50 17.50 0.16 1.30 ±13.3	
750 41.9 0.89 10.26 10.26 10.26 0.65 0.80 ±12.0	(TEM-Cell:Hi110 EXX, Waveguide:R22)
835 41.5 0.90 10.00 10.00 10.00 0.43 0.89 +12.0	
835 41.5 0.90 10.00 10.00 10.00 0.43 0.89 ±12.0 1750 40.1 1.37 9.32 9.32 9.32 0.36 0.85 ±12.0	1.5
836 41.5 0.90 10.00 10.00 10.00 0.43 0.89 ±12.0 1780 40.1 1.37 9.32 9.32 9.32 0.36 0.86 ±12.0	.0% .0%
835 41.5 0.90 10.00 10.00 10.00 0.48 0.99 ±12.0 1780 40.1 1.37 9.32 9.32 9.32 9.32 0.96 0.86 ±12.0 1900 49.0 1.40 8.91 8.91 8.91 0.33 0.86 ±12.0	7% 7% 1.4
835 41.5 0.90 10.00 10.00 10.00 0.48 0.89 ±12.0 1790 40.1 1.37 9.32 9.32 9.32 9.35 0.56 0.88 ±12.0 1900 40.0 1.40 8.91 8.91 8.91 0.30 0.86 ±12.0 2100 90.8 1.49 8.80 8.00 8.00 0.30 0.86 ±12.0	0%
885 41.5 GSO 19.00 10.00 19.00 0.40 0.89 1122 1770 40.1 1.37 8.38 8.32 8.33 3.35 6.36 8.122 19.00 19.00 0.40 0.89 1122 19.00 19.00 1.40 8.91 8.91 8.91 0.35 0.68 1122 19.00 19.00 19.00 11.00 1.40 19.00	75 750 705 706 706 1.4
835 415 0.90 19.00 10.00 19.00 0.43 0.89 112, 1730 40.1 1.37 8.32 0.32 9.32 0.38 0.88 122, 1730 10.00 40.0 10.00 10.	9% 9% 1.5 1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6
885 61.5 0.50 0.50 0.50 0.50 0.50 0.60 0.60 0.60 0.61 0.75 0	70%
835 415 0.90 0.90 0.90 0.90 0.40 0.83 112,	7%. 1.5 1.5 1.6 1.5 1.5 1.5 1.5 1.6 1.5 1.
885 61.5 63.0 49.00 10.00 10.00 0.00 0.00 10.00 11	75%. 75%. 75%. 75%. 75%. 75%. 75%. 75%.
885 61.5 63.0 49.00 10.00 10.00 0.00 0.00 10.00 11	75%. 75%. 75%. 75%. 75%. 75%. 75%. 75%.
885 415 630 9100 9100 940 089 112(2) 1710 461 137 832 032 932 038 68 112(2) 1710 461 140 881 891 033 686 112(2) 1710 1801 033 686 112(2) 1710 1801 033 686 112(2) 1710 1801 033 686 112(2) 1710 1801 030 086 112(2) 1710	20% 1.5 20% 1.4 20% 1.4 20% 1.4 20% 1.3 20% 1.
885 41.5 0.00 10.00 10.00 10.00 0.00 0.00 10	75%
885 415 0.90 19.00 19.00 19.00 19.00 0.46 0.89 112.0 1710 46.1 1.37 9.32 0.32 9.32 0.38 0.8 112.0 1710 46.1 1.37 9.32 0.32 9.32 0.38 0.8 112.0 1710 98.8 11.40 8.01 8.01 8.01 8.01 0.35 0.8 112.0 1710 98.8 11.49 8.00 8.00 8.00 0.30 8.0 112.0 1710 99.5 11.7 8.44 9.44 8.44 0.33 9.0 112.0 1710 99.5 11.0 8.44 8.44 8.44 0.33 9.0 112.0 1710 99.0 19.0 19.0 19.0 19.0 19.0 19.0 19	20% 1.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2
885 41.5 0.00 10.00 10.00 10.00 0.00 0.00 0.00 10.	20% 1.5
885 415 0.00 19.00 19.00 19.00 19.00 0.40 0.89 19.20 1770 40.1 1.37 9.38 9.32 9.38 9.32 9.38 9.88 19.20 19.0	20% 1.5 20% 1.6 20% 1.
885 64.5 690 90.00 9	20% 1.5 20% 1.6 20% 1.
886 41.5 0.90 10.00 10.00 10.00 0.00 0.00 0.00 0	75%
885 61.5 63.0 63.00	75% 1.5
886	20% 1.5 1.5 1.6 1.6 1.7 1.6 1.7
885	75% 75% 75% 75% 75% 75% 75% 75% 75% 75%
888	20% 1.5 1.5 1.6 1.6 1.7 1.6 1.7
Best	20% 1.5 20% 1.6 20% 1.6 20% 1.6 20% 1.6 20% 1.6 20% 1.7 20% 1.
BSS	75% 75% 75% 75% 75% 75% 75% 75% 75% 75%
150	1.5 75- 75- 75- 75- 75- 75- 75- 75- 75- 7
ASS	75% 75% 75% 75% 75% 75% 75% 75% 75% 75%
886	75% 75% 75% 75% 75% 75% 75% 75% 75% 75%
885	75% 75% 75% 75% 75% 75% 75% 75% 75% 75%
888	75% 75% 75% 75% 75% 75% 75% 75% 75% 75%
836	1.5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%
885	1.5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%
836	20% 20% 20% 20% 20% 20% 20% 20% 20% 20%
BSS	1.5 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%
835	20% 20% 20% 20% 20% 20% 20% 20% 20% 20%



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unduly and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CAD.Doccheck@ass.com"

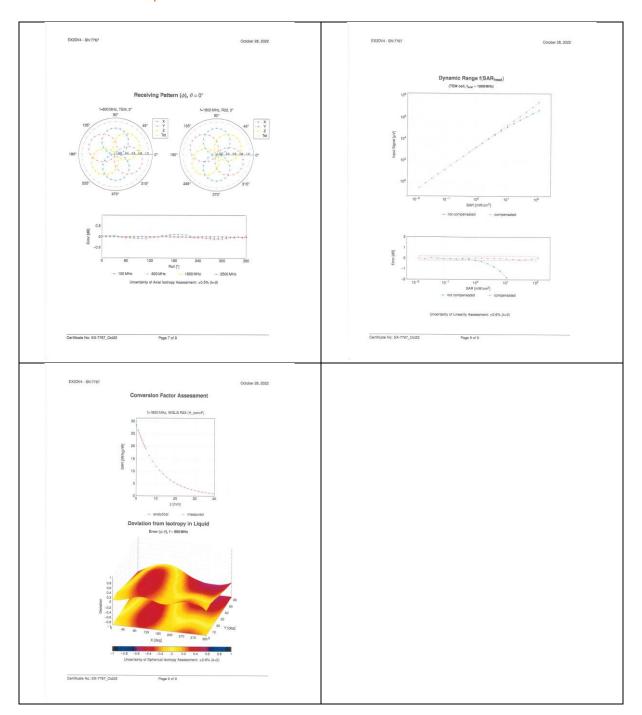
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CM.Doccheck@sgs.com

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





Page: 24 of 25





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unduly and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CAD.Doccheck@ass.com"

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CM_Doccheck@sgs.com
No.10 Weiye Road, Development Zone, Kunshan, Jiangsu, China 215300 ti(86-512) 57355888 fi(86-512) 57370818 www.sgsgroup.com.cn
中国・江苏・昆山开发区伟业路10号 邮编: 215300 ti(86-512) 57355888 fi(86-512) 57370818 sgs.com



Page: 25 of 25

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	/
Dipole D450V3 SN 1103				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ
2021/4/21	-23	/	57.1	/

