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Appendix C for KSCR221100217601

Calibration Certificate

Object	Apply	No	Model	SN	Calibration Date
		1	CLA150	4025	2021/04/26
		2	D450V3	1103	2021/04/21
		3	D750V3	1188	2022/03/29
		4	D835V2	4d114	2022/03/31
		5	D900V2	1d079	2022/06/07
D: 1		6	D1800V2	2d170	2022/03/31
Dipole		7	D1900V2	5d136	2022/06/07
		8	D2000V2	1041	2022/06/06
		9	D2300V2	1096	2022/03/31
	\boxtimes	10	D2450V2	817	2022/04/01
		11	D2600V2	1158	2022/03/31
		12	D5GHzV2	1095	2022/06/01
DAE		13	DAE4	1245	2022/05/30
Probe		14	EX3DV4	7346	2022/03/30



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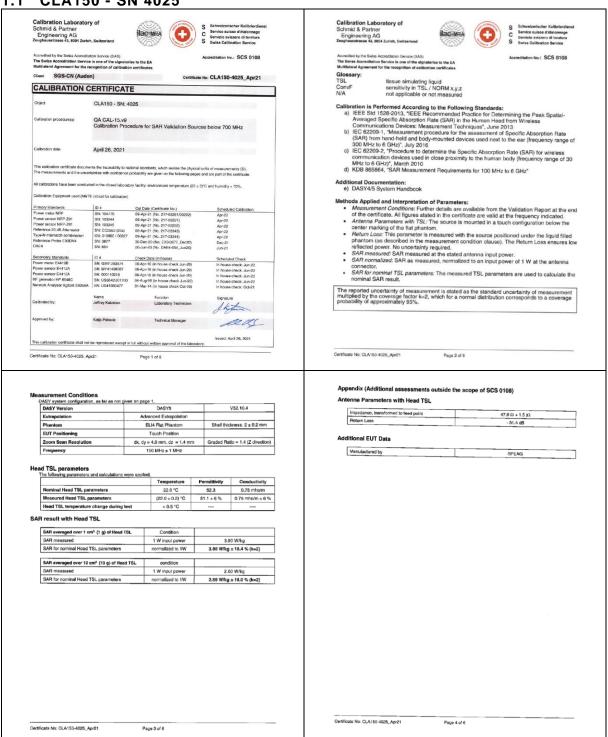
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1 Dipole

1.1 CLA150 - SN 4025





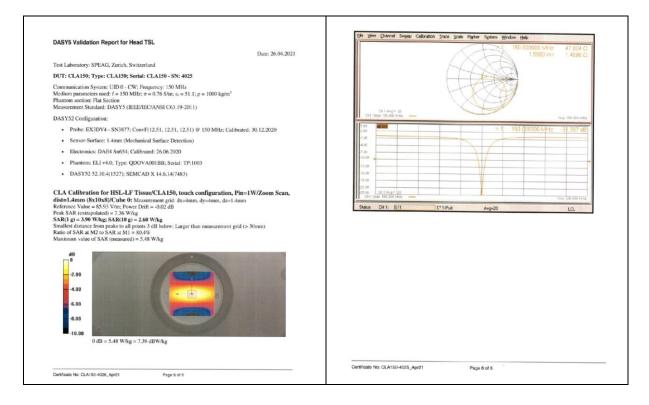
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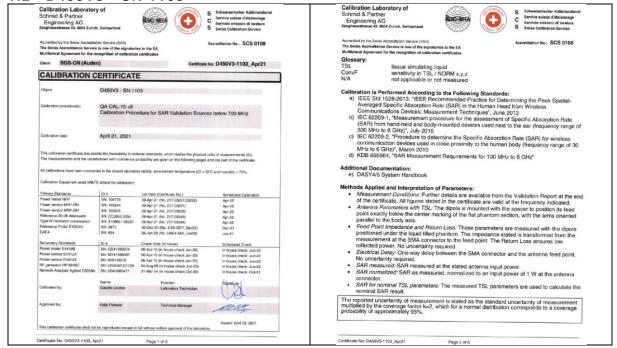
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1.2 D450V3 - SN 1103





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asurement Conditions DASY system configuration, as far as not given on page 1. DASY5 Shell thickness: 2 ± 0.2 mm Nominal Head TSL parameters 22.0 °C 43.5 0.87 mho/m (22.0 ± 0.2) °C 43.1 ± 6 % 0.87 mho/m ± 6 %

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 ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ² (10 g) of Head TSL SAR measured	condition 250 mW input power	0.767 WA:g

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters	with	Head TSL
---------------------------	------	----------

Impedance, transformed to feed point	57.1 Ω - 2.8 Ω
Return Loss	- 23.0 dB

General Antenna Parameters and Design

Floridad Data day and 1	
Electrical Delay (one direction)	1.346 ns
	1.0-45119

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



Certificate No: D450V3-1103_Apr21 Page 4 of 6

DASY5 Validation Report for Head TSL

Certificate No: D450V3-1103_Apr21

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

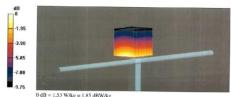
Page 3 of 6

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: dx=5mm, dy=5mm, dz=5mm
Reference Value = 39.18 V/m; Power Drift = 0.08 dB
Peak SAR (extpolacted) = 1.76 V/dg
SAR(1g) = 1.14 V/kg; SAR(1g) = 0.767 V/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 64.99
Maximum value of SAR (measured) = 1.53 V/kg



Certificate No: D450V3-1103_Apr21

0 dB = 1.53 W/kg = 1.85 dBW/kg

Certificate No: D450V3-1103_Apr21

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1.3 D750V3 - SN 1188





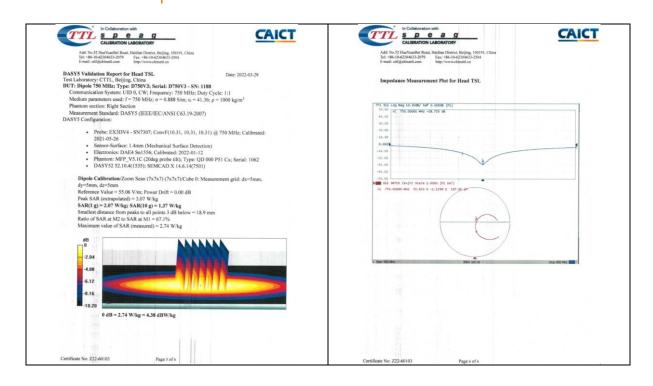
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1.4 D835V2 - SN 4d114





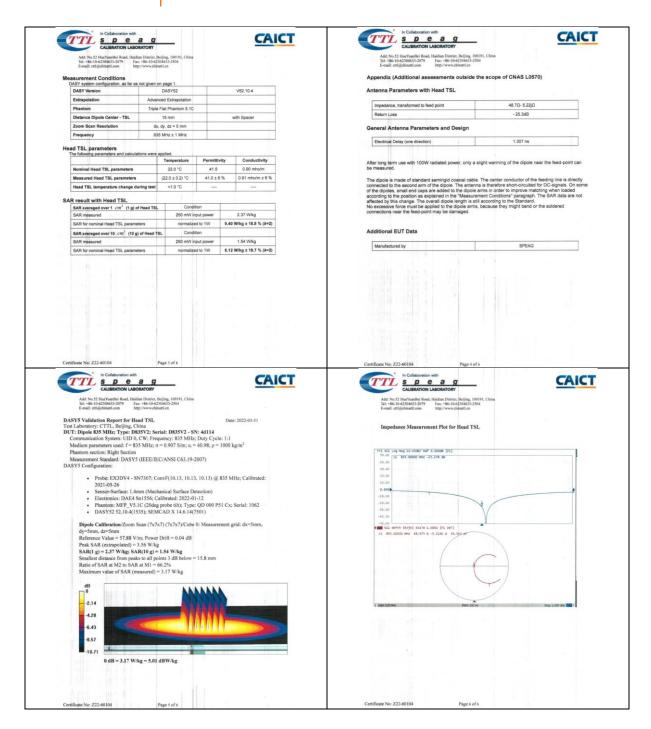
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1.5 D900V2 - SN 1d079





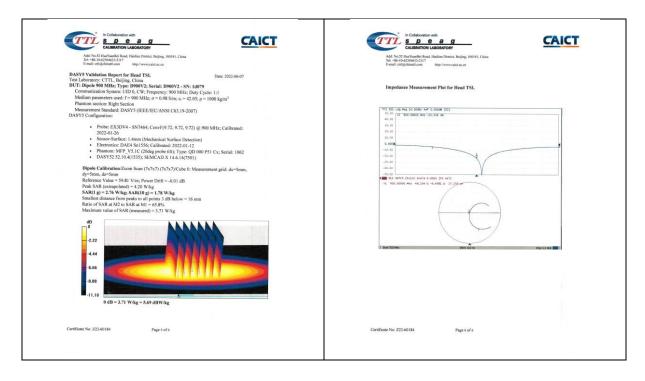
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1.6 D1800V2 - SN 2d170





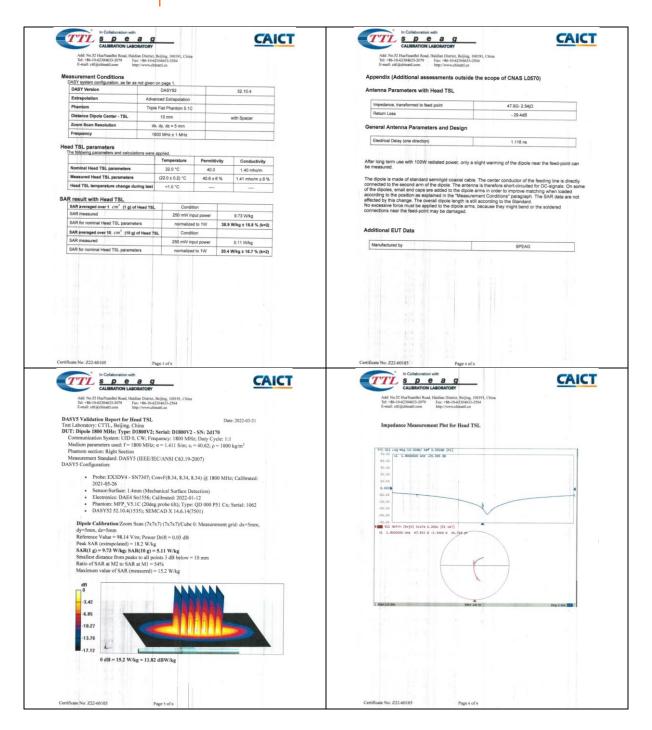
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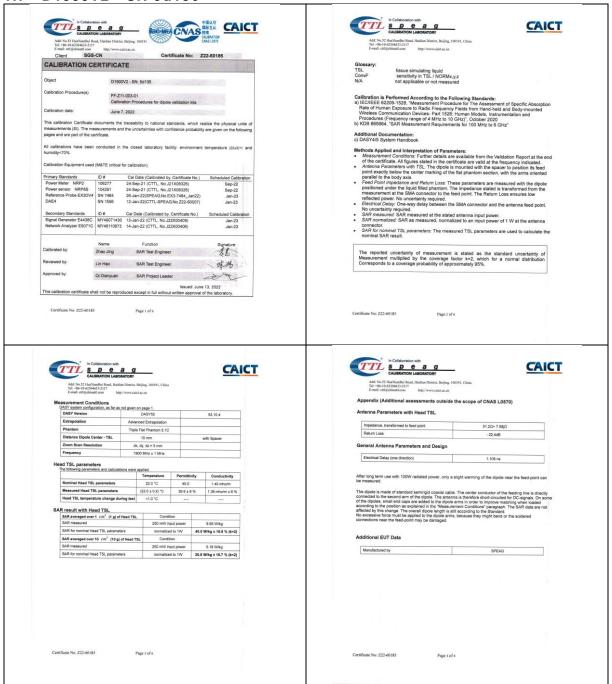
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1.7 D1900V2 - SN 5d136





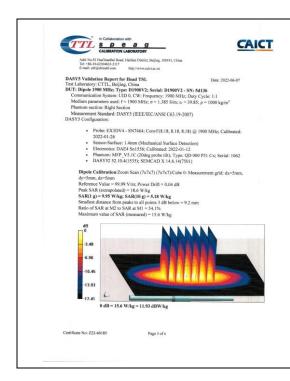
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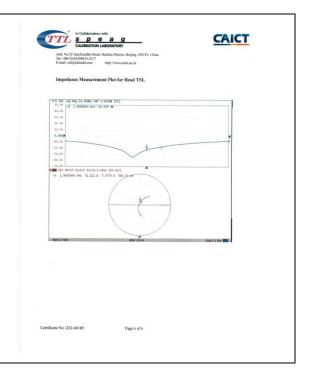
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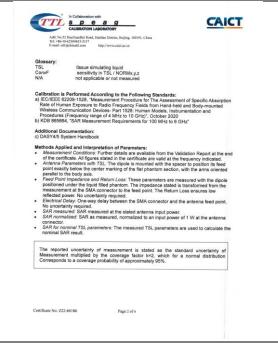
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1.8 D2000V2 - SN 1041







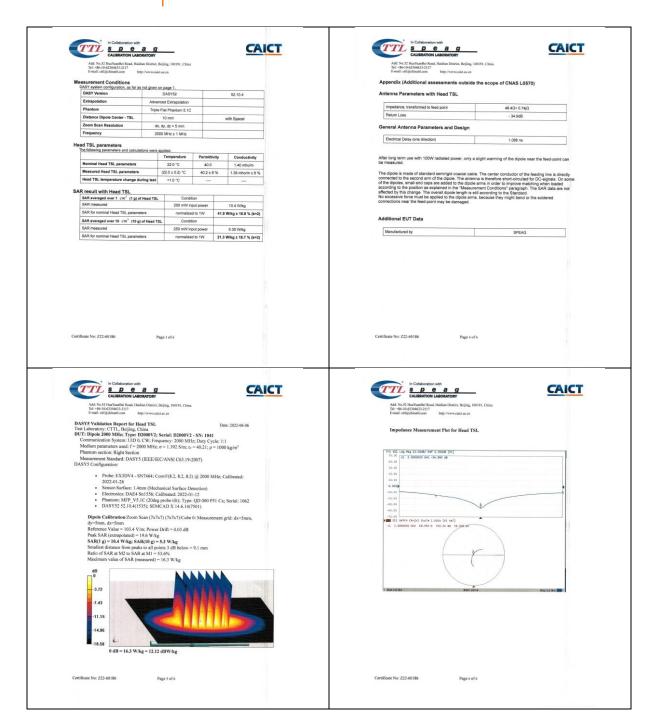
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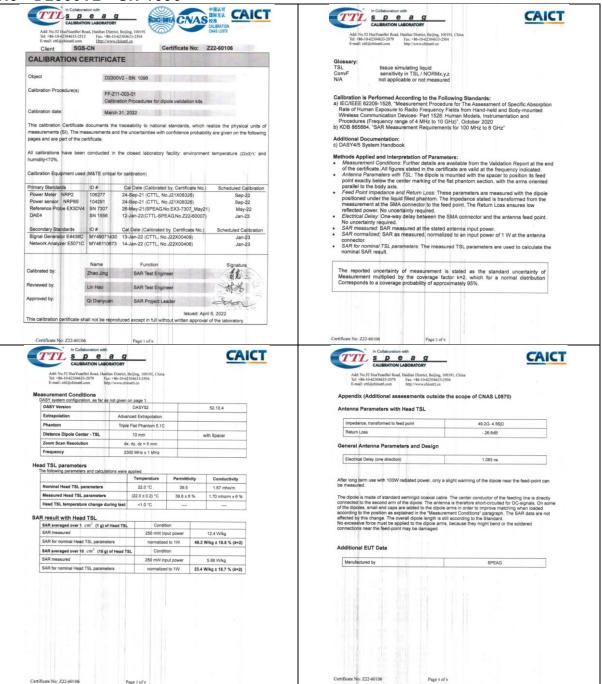
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1.9 D2300V2 - SN 1096





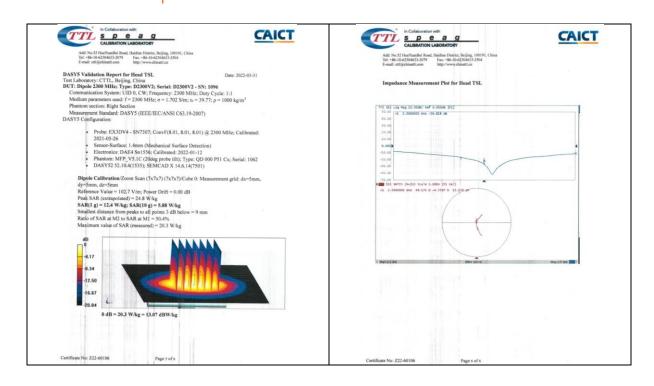
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1.10 D2450V2 - SN 817





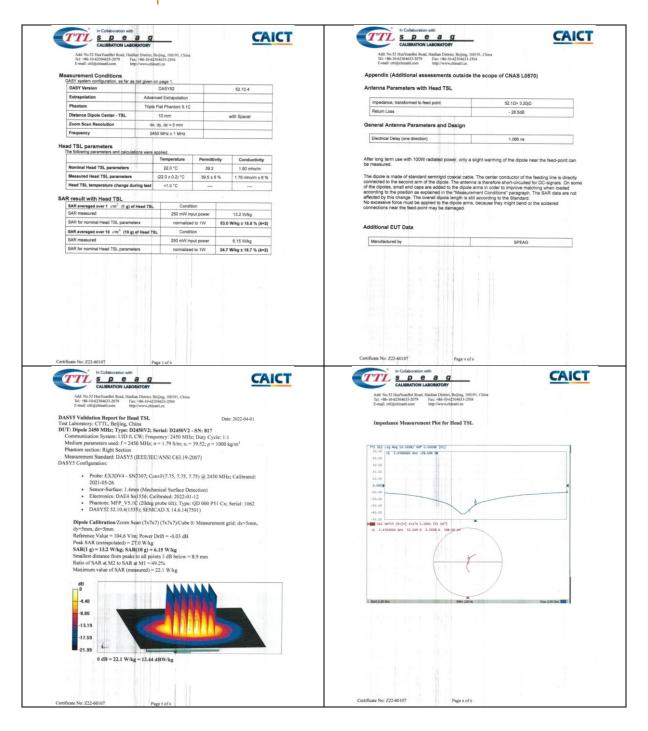
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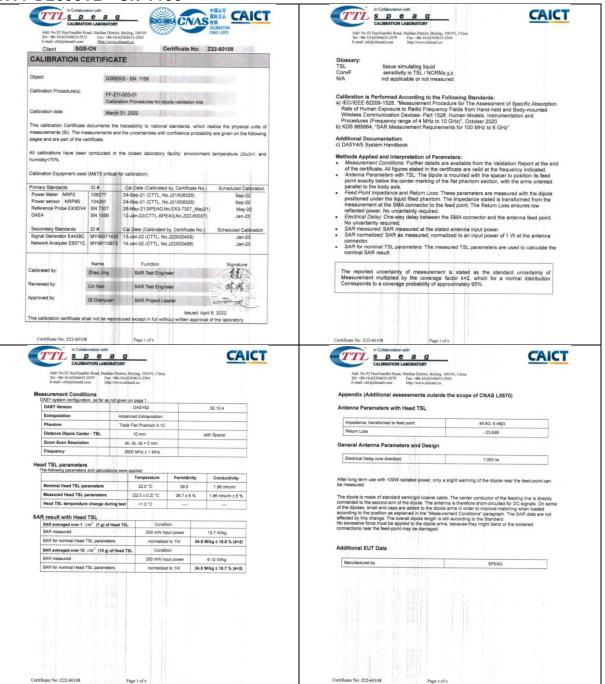
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1.11 D2600V2 - SN 1158



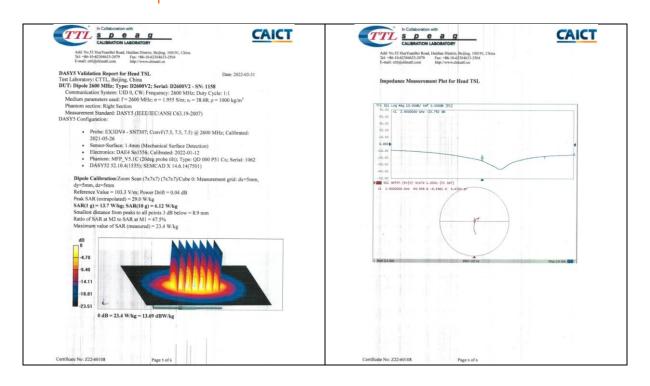


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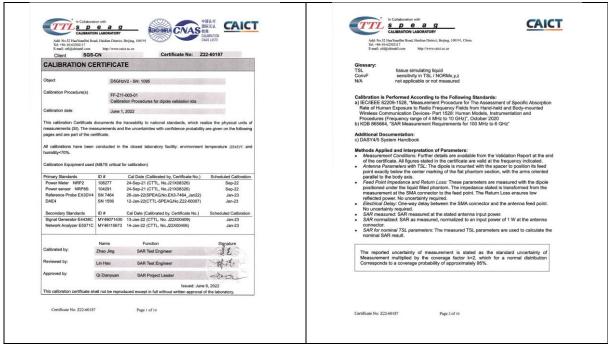
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1.12 D5GHzV2 - SN 1095





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pasurement Conditions

DASY 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 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
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	nine.	_

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)

Head TSL parameters at 5500MHz

	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 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

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 %
Head TSI temperature change during test	<10°C		100.00

AR 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
CAR for comical blead TCI carameters	pormalized to 11M	24 5 90% - 24 2 5 (5-2)

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sments outside the scope of CNAS L0570)

a Parameters with Head TSL at 5200MHz

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

enna Parameters with Head TSL at 5300MHz

Impedance, transformed to feed point	47.8Ω- 2.42jΩ
Return Loss	- 29.5dB

Return Loss	- 27.4dB	
ntenna Parameters with Head TSL a	t 5600MHz	

Alternia Farameters with freat for at	JOSON IL
Impedance, transformed to feed point	51.5Q-5.61jQ
Return Loss	- 24.9dB

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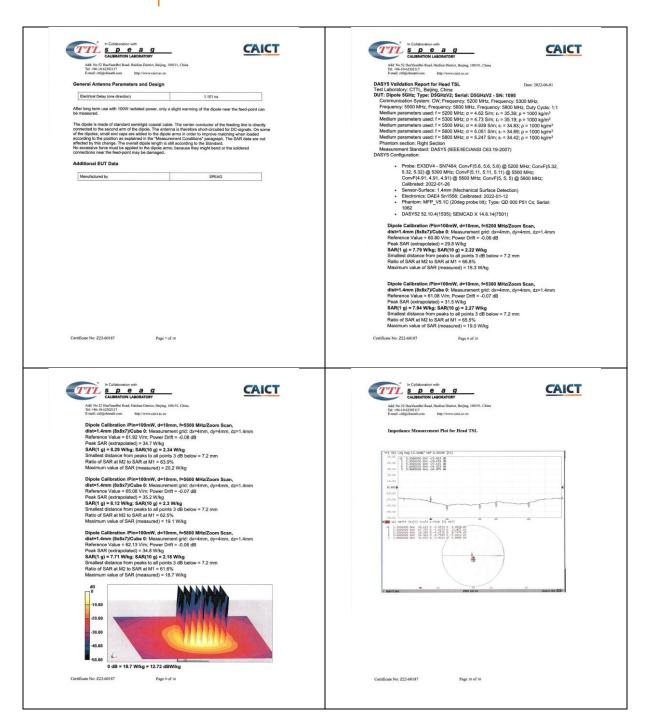
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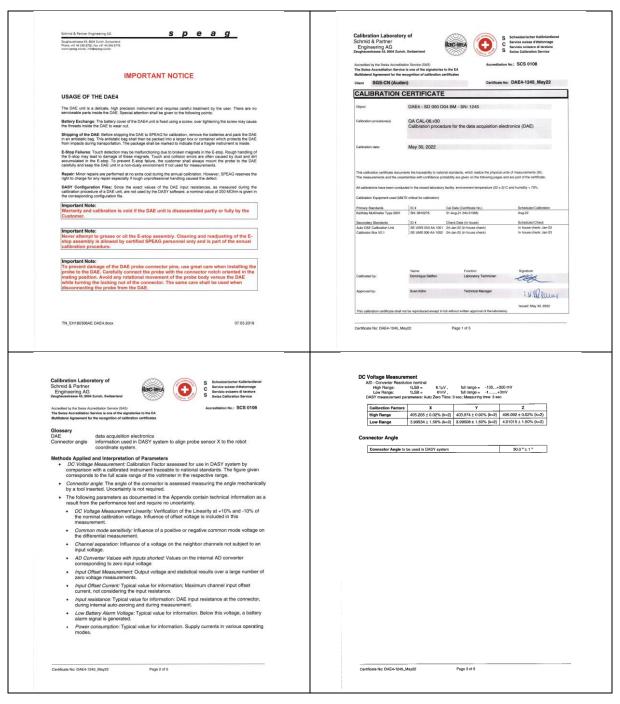
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2 DAE4 - SN 1245





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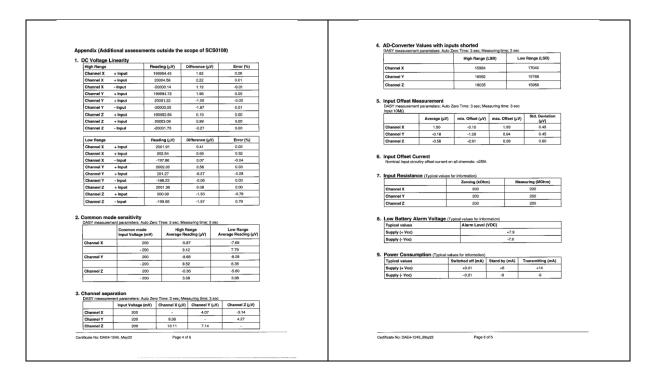
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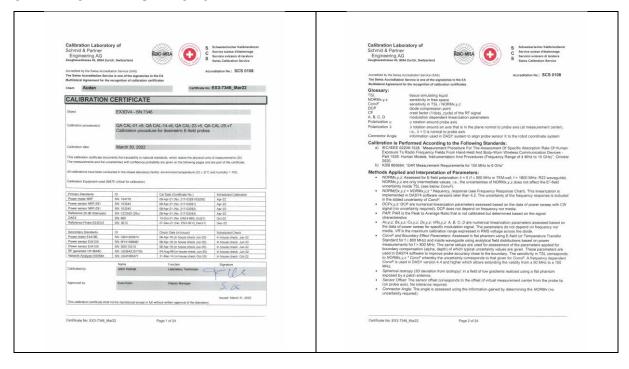
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3 EX3DV4 - SN 7346





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	EASY - Pa		s of Pr	ope: E	:X3DV	4 - 5N:	346		DASY/EASY - Paran		
	bration Parame	Sensor X		Sensor Y	Y	Sensor Z	Unc (k=2)		Sensor Model Parameters C1 C2 IF IF	q T1 T2 T3 V"1 ms.V"1 ms 35.10 5.63 0.03 5.02	T4 T5 T6
Norm (µV/(V DCP (mV) ^B	lm)²y*	0.46 101.4	_	0.47 106.0		0.61 106.9	± 10.1 %		X 39.3 291.80 3 Y 37.1 270.84		1.42 0.12 1.01 1.62 0.05 1.01
Calibration	Results for M	Modulation R	esponse				Max Max		Z 9.7 69.74	33.37 4.96 0.00 4.94	0.61 0.00 1.00
0.00	sw	Item reame	dB	dΒ (μV	C D		dev. Unc [©]		Other Probe Parameters Sensor Arrangement		Triangular
		E E	r 0.00	0.00	1.00 0.0	00 143.5 135.3	±30% ±4.7%		Connector Angle (*)		-166.1
10352- P	Nise Waveform (200	0Hz, 10%)	3.33 Y 4.03	68.90 1 70.70 1	11.66 10.0 12.35	00 60.0	135% 196%		Mechanical Surface Detection Mode		enabled
	Pulse Waveform (200	0Hz, 20%)	2 1.63 K 3.00	61.25 6 70.65 1	6.76 11.31 6.9	0.00 0.08 ee	±2.4% ±9.6%		Optical Surface Detection Mode Probe Overall Length		disabled 337 mm
	Nise Waveform (200	H	/ 11.51 Z 0.83	81.32 1 60.00 5	14.72 5.11 12.51 3.8	80.0 80.0	+27% +96%		Probe Body Diameter		10 mm
AAA		E	20.00	78.85 1 87.62 1 138.38 0	15.51	95.0	2000		Tip Length Tip Diameter		9 mm
10355- P	² uise Waveform (200	0Hz, 60%)	227	72.13 9 91.58 1	9.52 2.2 16.29	120.0	±1.7% ±9.6%		Probe Tip to Sensor X Calibration Po	int	2.5 mm
10387- C	IPSK Waveform, 1.6	MHz	2 7.94 K 1.47	159.51 1 64.88 1	16.87 13.82 1.0	120.0	142% 196%		Probe Tip to Sensor Y Calibration Po		1 mm
	2PSK Waveform, 10	Alber	7 0.45 7 1.96	64.88 1 66.24 1 61.88 1 66.27 1 67.33 1 64.75 1	11.05 14.65 0.0	150.0	11.1% 19.6%		Probe Tip to Sensor Z Calibration Po Recommended Measurement Distant		1 mm
			r 2.06 Z 1.21	67.33 1 64.75 1	15.38	150.0				ce can be increased to 3-4 mm for an Area Sca	
10396- 6 AAA	4-QAM Waveform,	100 kHz	2.63 r 2.74	69.51 1 70.83 1	18.25 3.0 19.16	150.0	±10% ±96%				
10399- 6 AAA	4-QAM Waveform,	40 MHz	1.70 K 3.34 V 3.38	69.51 1 70.83 1 64.72 1 66.39 1 66.82 1 65.72 1 65.35 1	15.25 0.0	150.0 150.0	±2.0% ±9.6%				
	VLAN CCDF, 64-QA	AM, 40MHz	2 2.70 X 4.71	65.72 1	14.74	150.0	136% 196%				
AAA Note: For det	ails on UID param		/ 4.70 Z 3.83	65.54 1 66.16 1	15.41	150.0 150.0	100000000000000000000000000000000000000				
Note: For det	uls on UID param	eters see Apper	,dix								
The report	ed uncertainty	of measurem	ent is state	ed as the	standard	uncertainty	of measurement ds to a coverage				
probability	of approximate	ely 95%.	which for a	i normai d	astribution	correspond	Is to a coverage				
The constitution	ies of Norm X,Y,Z do n							J			
Numerical lines Uncertainty is o	rization parameter un letermined using the m	scertainty not require rax, deviation from P	d. near response	applying rectar	ngular distribul	ton and is expres	sed for the square of the				
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			Page :				Murris 30, 2022		EX30V4-5N:7346		March 30, 20
EX3DV4- SN:3	7346	uramatar			:>3DV	A CN-	March 30, 2022		EXQV4-5N:7346	eters of Probe: EX3DV	
EX3DV4- SN:3		ırameter			:X3DV	4 - SN:7			EXIOW SN 7346 DASY/EASY - Param Calibration Parameter Determin	eters of Probe: EX3DV	74 - SN:7346
EX3DV4- SN:3 DASY/E Calibration	EASY - Pa	etermined in	s of Pr	obe: E	ulating Me	edia	7346		DASY/EASY - Param Calibration Parameter Determing (FMHs) Calibration Parameter Pentage Calibration Parameter Pentage Calibration Parameter Calibration Parameter Calibration Calibration	eters of Probe: EX3DV	74 - SN:7346
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DASY/E Calibration f (MHz) 5 750 835	Parameter De Relative Permittivity 41.9 41.5	Conductivity (Sim)* 0.89	S of Pr Head Tiss ConvFX 10.56 10.12	cobe: Esue Simul ConvFY 10.56 10.12	ConvF Z 10.58 10.12	Alpha (n 0.55 0	7346 pph s Unc nm) (k=2) .85 ± 12.0 % .96 ± 12.0 %		DASY/EASY - Param Calibration Parameter Determin [1,004:15] [1,	eters of Probe: EX3DV	74 - SN:7346 Idia Alpha [©] Depth [©] (k=2) 0.20 2.50 ±18.6 (
DASY/E Calibration f (MHz) c 750 835	EASY - Pa Parameter Dt Relative Permittivity 41.9 41.5	Conductivity (Sim)* 0.89 0.90	S of Pr Head Tis: 10.56 10.12 10.10	ConvF Y 10.56 10.12 10.10	ConvF Z 10.56 10.12 10.10	Alpha (n 0.55 0 0.42 0 0.53 0	7346 ppth 6 Unic (k=2) .85 ± 12.0 % .96 ± 12.0 %		DASY/EASY - Param Calibration Parameter Determin [1,004:15] [1,	eters of Probe: EX3DV	74 - SN:7346 Idia Alpha [©] Depth [©] (k=2) 0.20 2.50 ±18.6 (
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DASY/E Calibration f (MHz) c 750 835 900 1450 1750 1900	Parameter De Relative Permittivity 41.5 41.5 40.5 40.0	etermined in Conductivity (\$im) ² 0.89 0.90 0.97 1.20 1.37	S of Pr Head Tiss 10.56 10.12 10.10 9.26 8.83 8.48	ConvF Y 10.56 10.12 10.10 926 8.83 8.48	ConvF Z 10.58 10.12 10.10 9.26 8.83 8.48	Alpha 0 (n 0.55 0 0.42 0 0.53 0 0.50 0 0.34 0 0.35 0	7346 Unc (h=2) (h=2) (h=2) (h=3) (h		DASY/EASY - Param Calibration Parameter Determin [1,004:15] [1,	eters of Probe: EX3DV	74 - SN:7346 Idia Alpha [©] Depth [©] (k=2) 0.20 2.50 ±18.6 (
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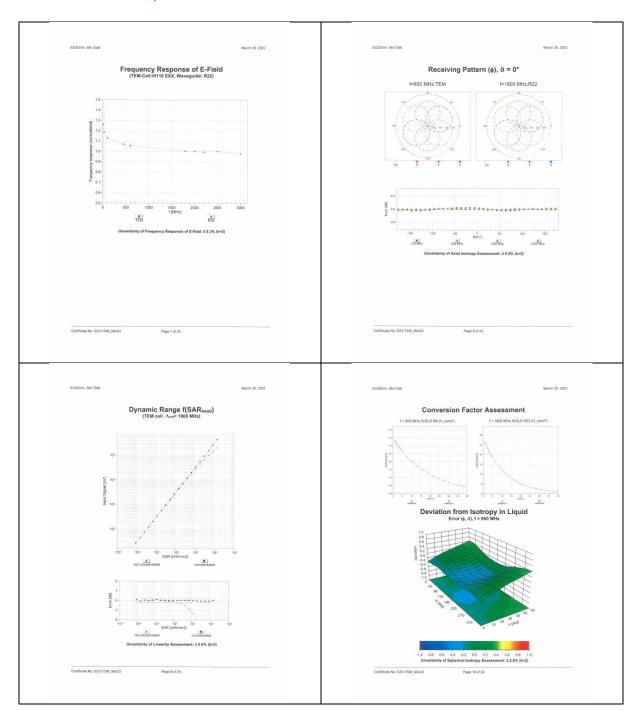
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