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Appendix C for KSCR230700114209

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 |
| | \boxtimes | 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 | 2023/04/25 | 2024/04/24 |
| Probe | \boxtimes | 14 | EX3DV4 | 7767 | 2022/10/28 | 2023/10/27 |



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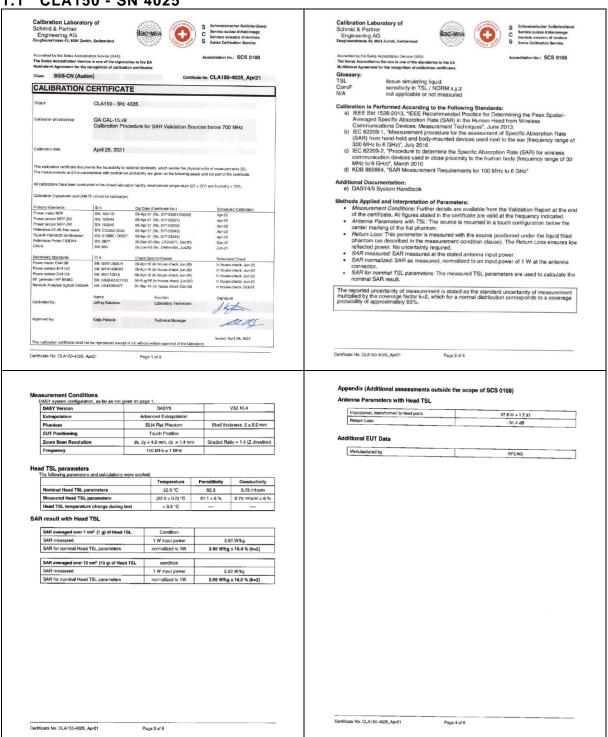
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1 Dipole

1.1 CLA150 - SN 4025





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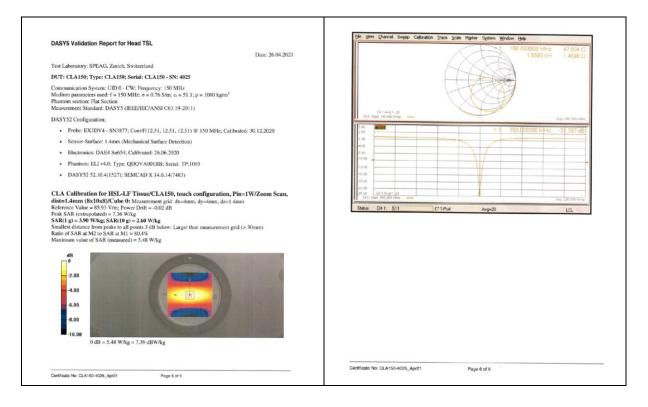
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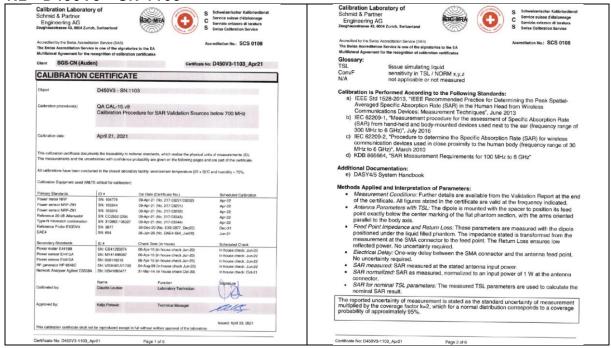
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D450V3 - SN 1103





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Measurement Conditions

| ASY system configuration, as far as not | given on page 1. | |
|---|------------------------|-----------------------------|
| DASY Version | DASY5 | V52.10.4 |
| Extrapolation | Advanced Extrapolation | |
| Phantom | ELI4 Flat Phantom | Shell thickness: 2 ± 0.2 mm |
| Distance Dipole Center - TSL | 15 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 450 MHz ± 1 MHz | |

| ead TSL parameters The following parameters and calculations were 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 measured | 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 | | |

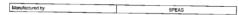
General Antenna Parameters and Design

| 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 of standard semisigal conditionable. The center outsides of the fleeting with the execution of the conditionable of the center outsides of the fleeting their interest consistent of the dipoles, until ord of second and the dipole, the antition is therefore short-divisible for DC-signish. On some of the dipoles, until ord of see addition to the dipole arms in order to improve matching when honded eccornicy to the propriet on surphittent of "Massurement Conditions" paragraph. The SAR data are not affected by this charge. The overall applie flength is set to exceed for the SAR data with control of the set of the dipole flength is set to exceed for the set of the dipole arms, because they might bend or the soldered connections near the topoler time by the dampet.

Additional EUT Data



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DASY5 Validation Report for Head TSL

Date: 21.04.2021

Test Laboratory: SPEAG, Zurich, Switzerland

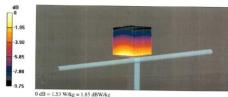
DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1103

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)

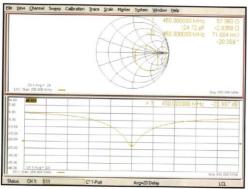
DASY52 Configuration:

- 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



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Certificate No: D450V3-1103_Apr21

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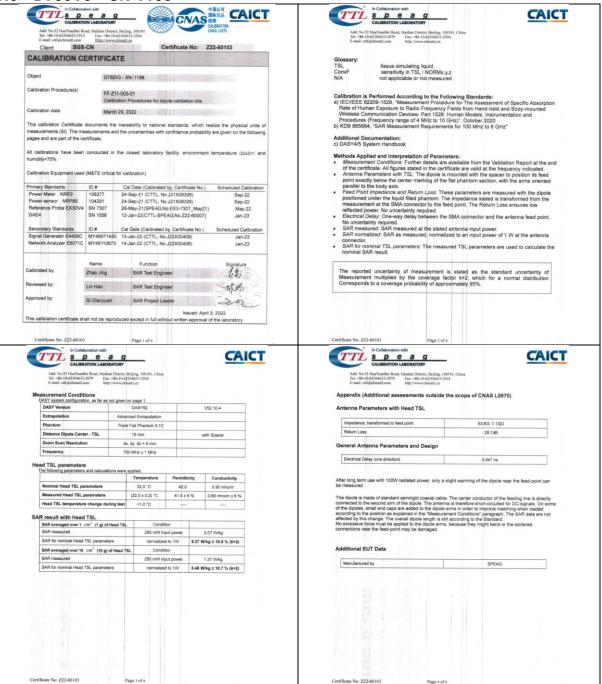
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1.3 D750V3 - SN 1188



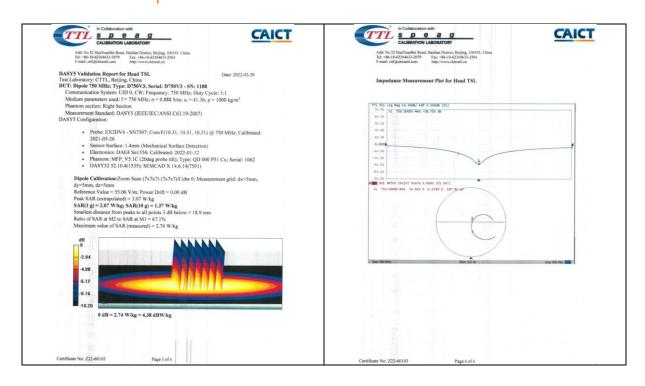


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1.4 D835V2 - SN 4d114



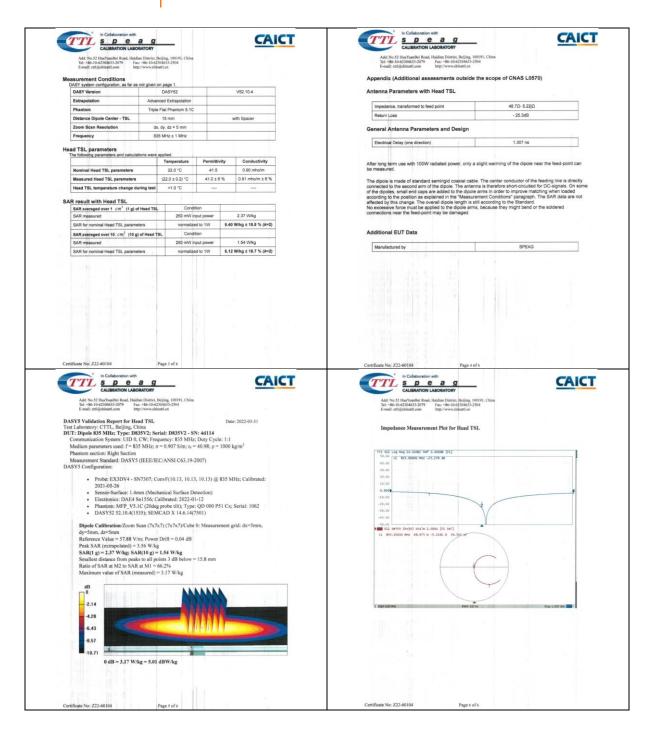


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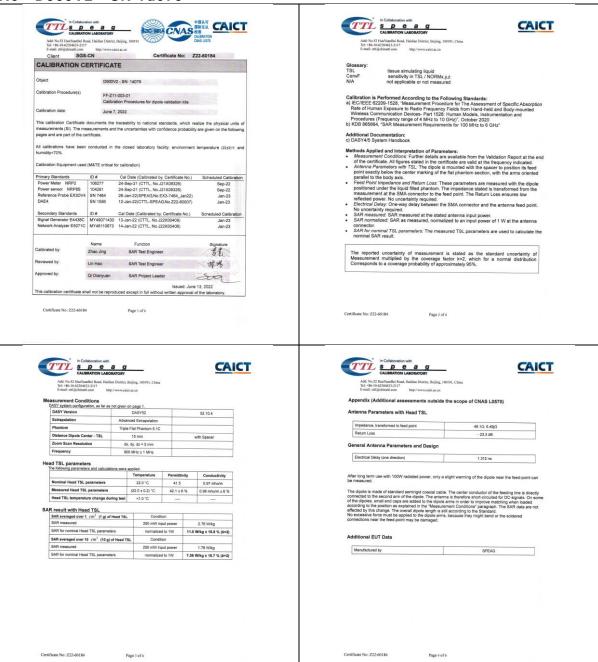
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D900V2 - SN 1d079



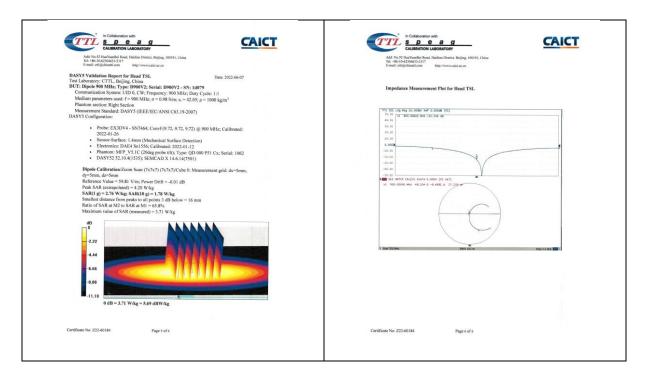


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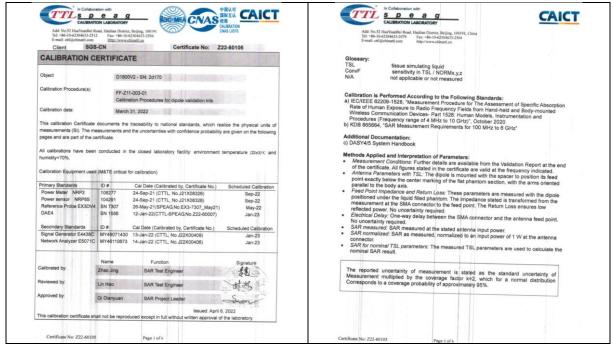
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1.6 D1800V2 - SN 2d170



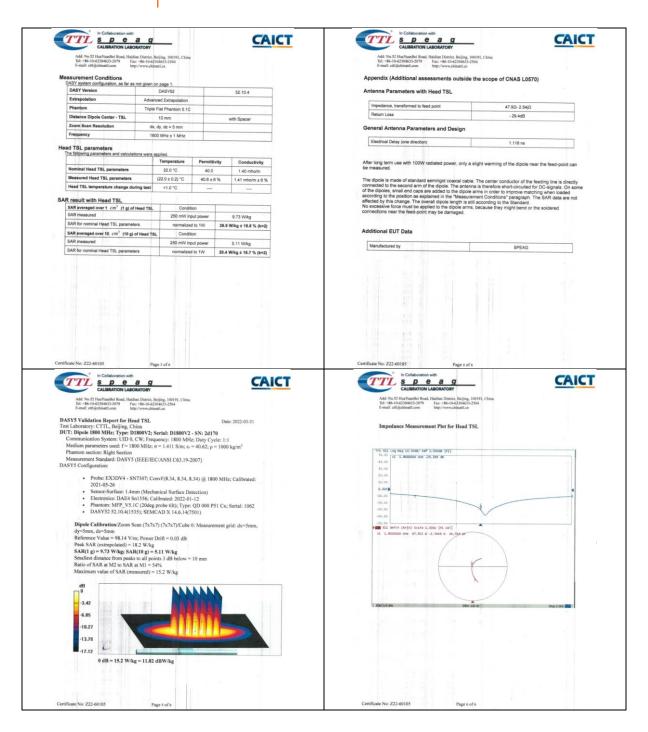


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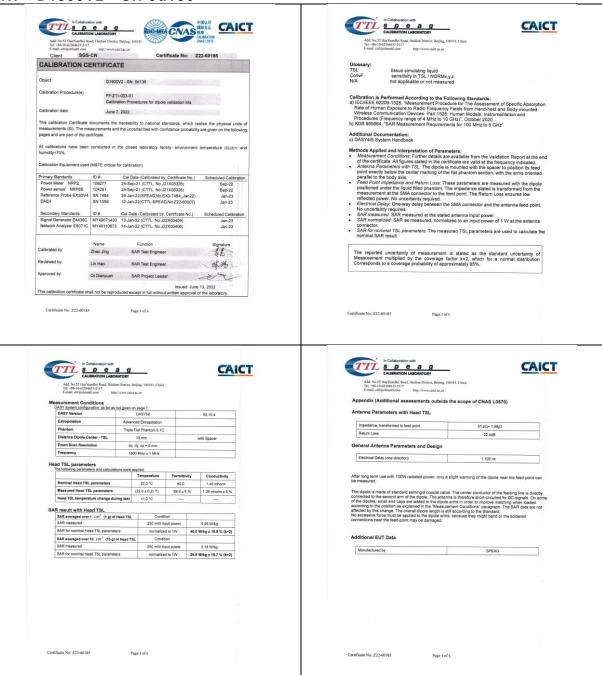
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1.7 D1900V2 - SN 5d136



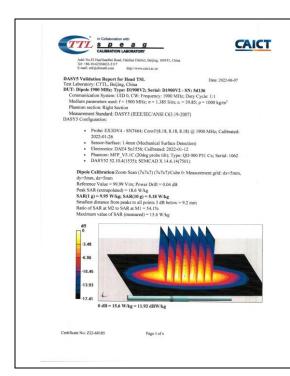


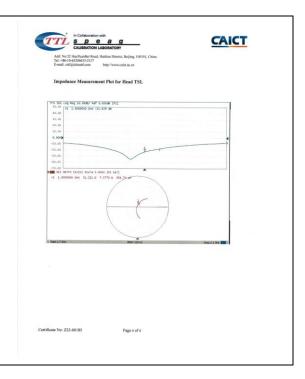
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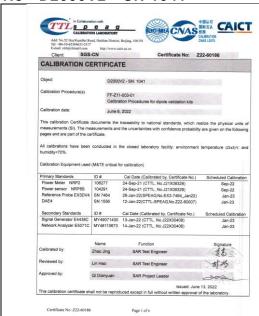


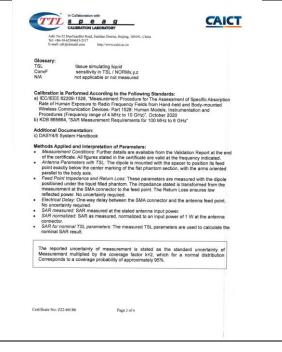
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1.8 D2000V2 - SN 1041





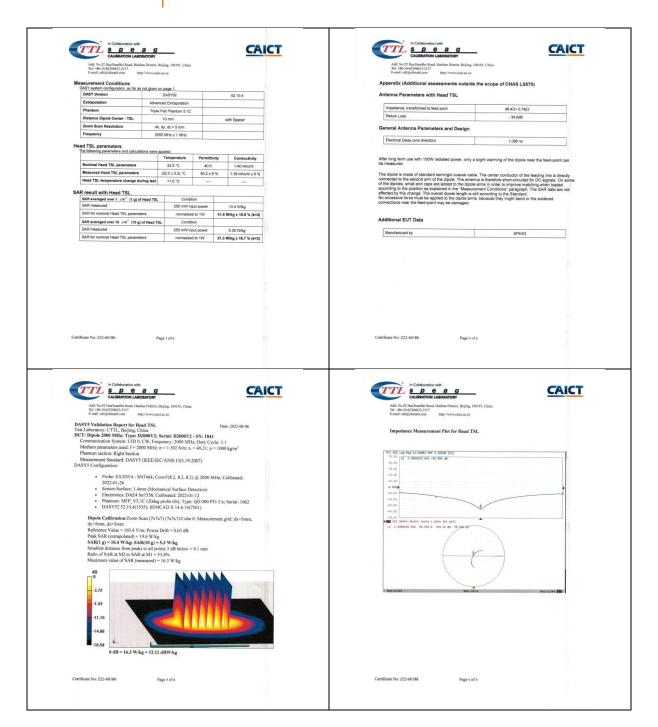


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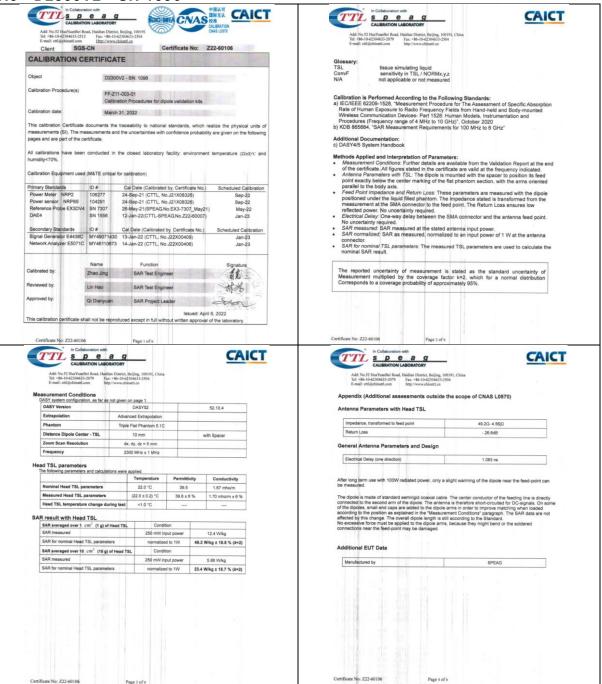
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1.9 D2300V2 - SN 1096



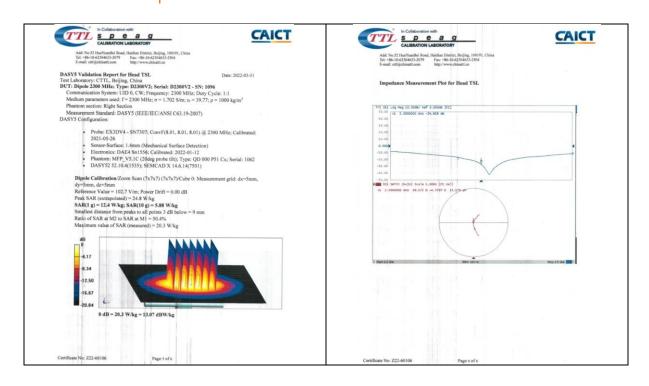


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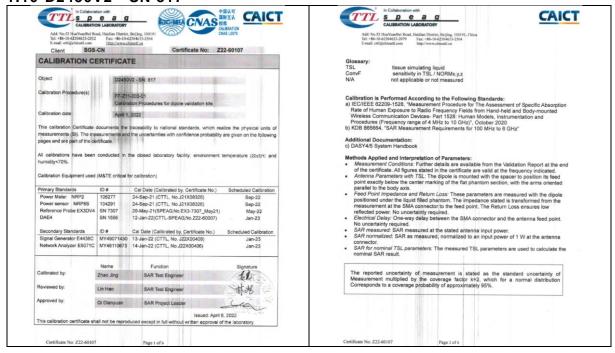
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1.10 D2450V2 - SN 817



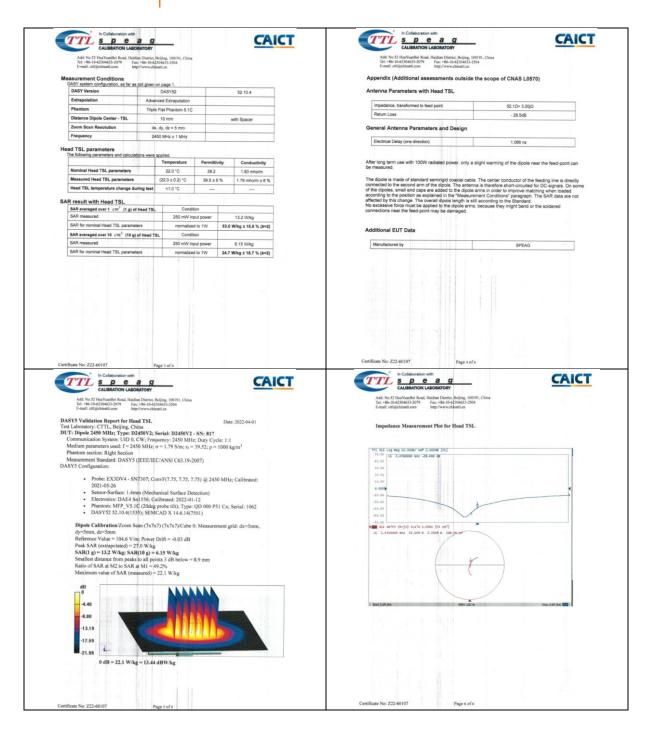


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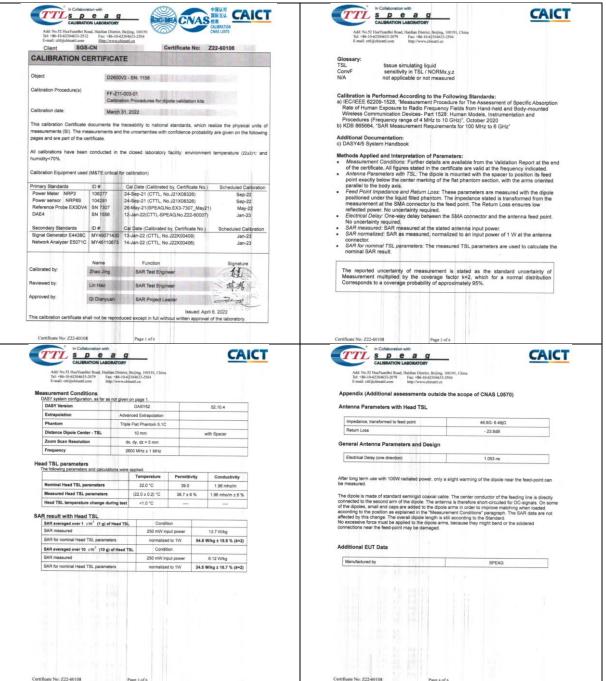
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1.11 D2600V2 - SN 1158



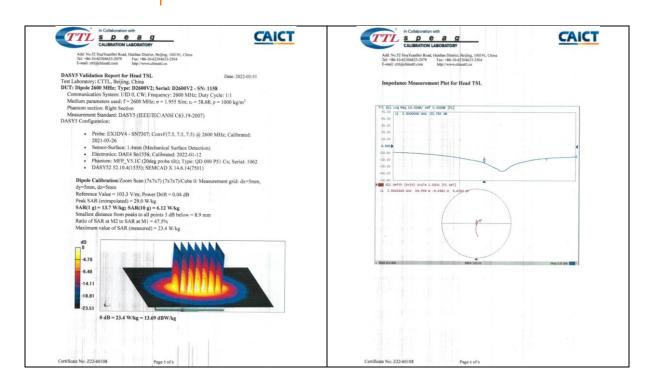


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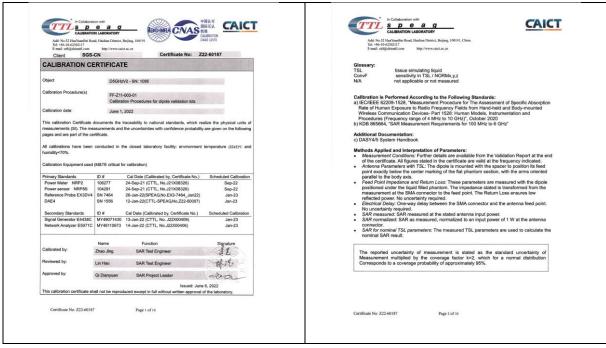
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1.12 D5GHzV2 - SN 1095





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CAICT

CAICT



CAICT

CAICT

| Measurement | Conditions |
|-------------|------------|
| | |

| DASY Version | DASY52 | 52.10.4 |
|------------------------------|--|----------------------------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Triple Flat Phantom 5.1C | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy = 4 mm, dz = 1.4 mm | Graded Ratio = 1.4 (Z direction) |
| Frequency | 5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5500 MHz ± 1 MHz 5600 MHz ± 1 MHz 5600 MHz ± 1 MHz | |

Head TSL parameters at 5200MHz

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 36.0 | 4.66 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 35.4 ± 6 % | 4.62 mho/m ± 6 % |
| Head TSL temperature change during test | <1.0 °C | - | - |

SAR result with Head TSL at 5200MHz

| 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) |

Certificate No: Z22-60187

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Add: No.52 HuaYuzmBei Road, Haidian District, Berjing, 100191, China Tel: +86-10-62302117
E-mail: cttl@chinattl.com http://www.caict.sc.cm

Head TSL parameters at 5300MHz

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.9 | 4.76 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 35.2 ± 6 % | 4.73 mho/m ± 6 % |
| Head TSL temperature change during test | <1.0 °C | | _ |

SAR result with Head TSI at 5300MHz

| SAR averaged over 1 cm ² (1 g) of Head TSL | Condition | |
|---|--------------------|----------------------------|
| SAR measured | 100 mW input power | 7.94 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 79.1 W/kg ± 24.4 % (k=2) |
| SAR averaged over 10 cm ³ (10 g) of Head TSL | Condition | |
| SAR measured | 100 mW input power | 2.27 W/kg |
| CAD to compare blood TCI commenters | normalized to 1W | 22 6 Wilton + 24 2 % (b=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 9 |
| 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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ead TSL parameters at 5600MHz

| | 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 9 |
| 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

| 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 result with Head TSL at 5800MHz

| 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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dix (Additional assessments outside the scope of CNAS L0570)

nna Parameters with Head TSL at 5200MHz

| mpedance, 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

| Return Loss | - 24.9dB | |
|--------------------------------------|---------------|--|
| Impedance, transformed to feed point | 51.5Q- 5.61jQ | |

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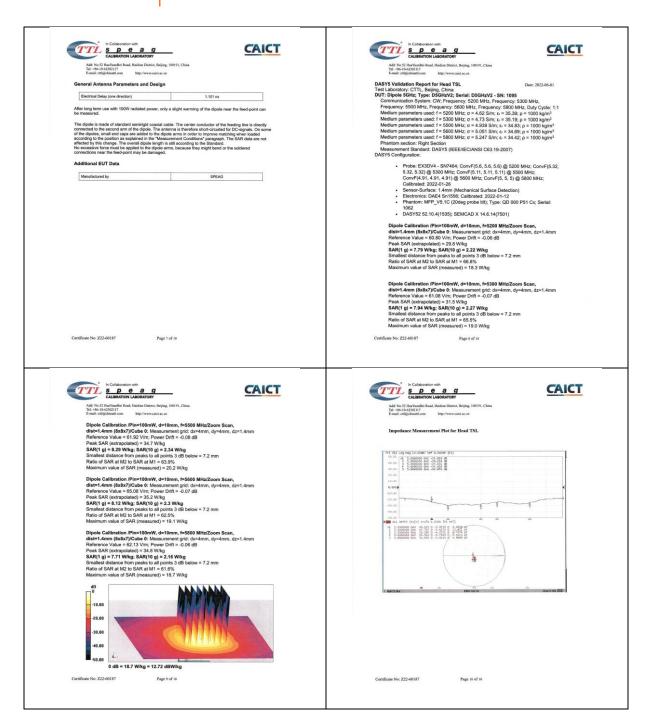


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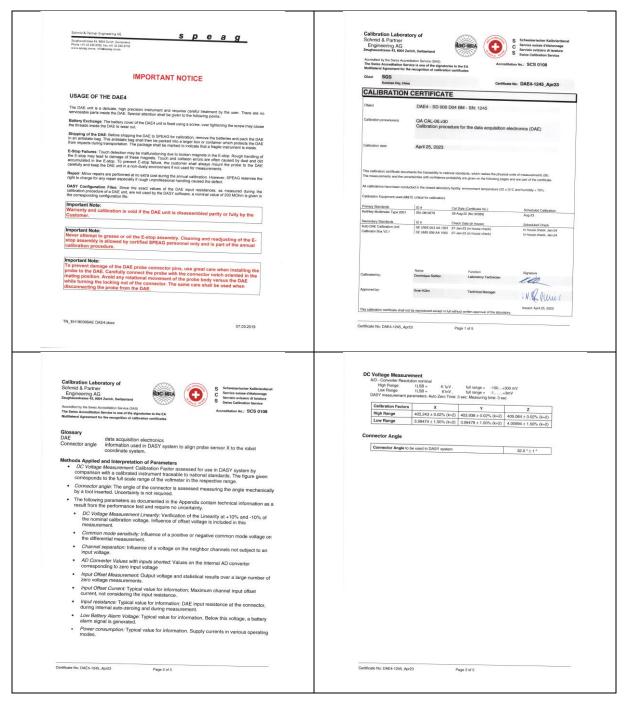
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2 **DAE4 - SN 1245**



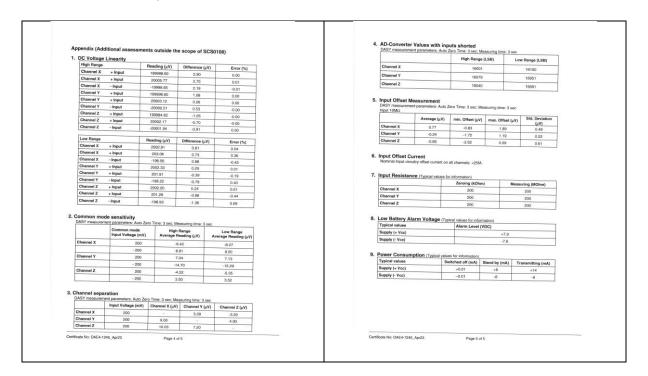


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EX3DV4 - SN 7767 3





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| 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 indicate on the investment of an Area Open (in. |
| 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 expense of the labble | d water |
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| Certificate No: EX-7767_Oct22 Page 3 of 9 | Certificate No: EX-7767_Oct22 Page 4 of 9 |
| , 484 2 dl 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 | 755 706 706 706 706 706 |
| 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 | 75%. 75%. 75%. 75%. 75%. 75%. 75%. 75%. |
| 885 61.5 63.0 49.00 10.00 10.00 0.00 0.00 10 | 75%. 75%. 75%. 75%. 75%. 75%. 75%. 75%. |
| 885 415 630 9100 9100 946 089 112(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 036 1801 1801 033 686 112(2) 1710 1801 | 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 0.30 0.8 112.0 1710 98.8 11.49 8.00 8.00 8.00 0.30 0.8 112.0 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% |



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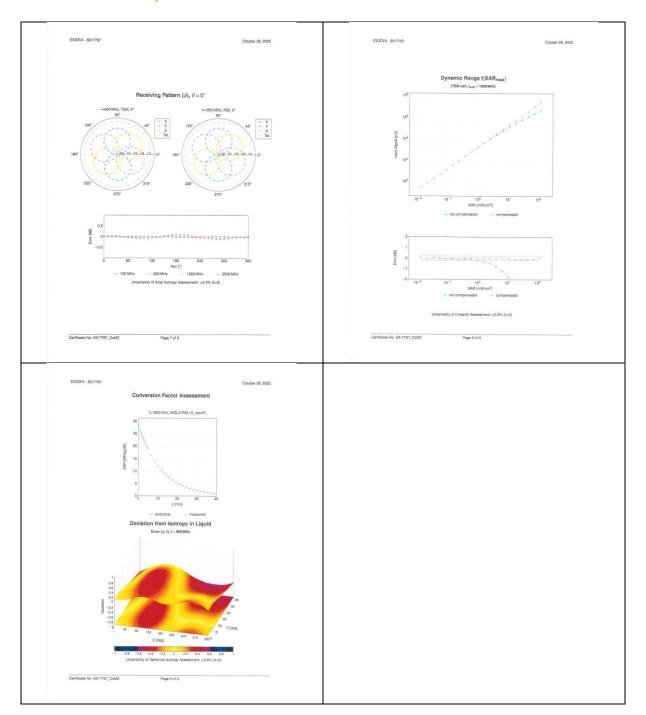
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4 Impedance and return loss

| | Dipole (| CLA150 SN 4025 | | | | | |
|---------------------|-----------------|-----------------|---------------|------|--|--|--|
| | Н | lead 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 | | | |
| 2023/4/26 | -32.3 | -2.87% | 46.5 | 1.3 | | | |
| | Dipole [| D450V3 SN 1103 | | | | | |
| | Н | lead 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 [| D750V3 SN 1188 | | | | | |
| | Н | lead Liquid | | | | | |
| Date of Measurement | Return Loss(dB) | Δ% | Impedance (Ω) | ΔΩ | | | |
| 2022/3/29 | -28.7 | / | 53.6 | / | | | |
| 2023/3/29 | -28.3 | 1.39% | 53.2 | 0.4 | | | |
| | Dipole D | 835V2 SN 4d114 | | | | | |
| | Н | lead Liquid | | | | | |
| Date of Measurement | Return Loss(dB) | Δ% | Impedance (Ω) | ΔΩ | | | |
| 2022/3/31 | -25.3 | / | 48.7 | / | | | |
| 2023/3/31 | -24.6 | 2.77% | 49.1 | 0.4 | | | |
| | Dipole D | 900V2 SN 1d079 | | | | | |
| | Н | lead Liquid | | | | | |
| Date of Measurement | Return Loss(dB) | Δ% | Impedance (Ω) | ΔΩ | | | |
| 2022/6/7 | -23.3 | / | 48.1 | / | | | |
| 2023/6/7 | -23.6 | -1.29% | 48.3 | 0.2 | | | |
| | Dipole D | 1800V2 SN 2d170 | | | | | |
| Head 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 | | | |
| | Dipole D | 1900V2 SN 5d136 | | | | | |
| | Н | lead Liquid | | | | | |
| Date of Measurement | Return Loss(dB) | Δ% | Impedance (Ω) | ΔΩ | | | |
| 2022/6/7 | -22.4 | | 51.2 | / | | | |
| 2023/6/7 | -22.9 | -2.23% | 51.6 | -0.4 | | | |
| | Dipole D | 2000V2 SN 1041 | | | | | |
| | Н | lead Liquid | | | | | |
| Date of Measurement | Return Loss(dB) | Δ% | Impedance (Ω) | ΔΩ | | | |
| 2022/6/6 | -34.9 | / | 48.4 | / | | | |
| 2023/6/6 | -33.5 | 4.01% | 49.1 | -0.7 | | | |



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| | Dipole D | 02300V2 SN 1096 | | | | | |
|---------------------|-----------------|----------------------|----------------------|------|--|--|--|
| | | lead Liquid | | | | | |
| 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 I | 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 D | 2600V2 SN 1158 | | | | | |
| | Н | lead 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 D5GH | IzV2 SN 1095 for 520 | 0 | | | | |
| | Н | lead Liquid | | | | | |
| Date of Measurement | Return Loss(dB) | Δ% | Impedance (Ω) | ΔΩ | | | |
| 2022/6/1 | -23.6 | / | 46.1 | / | | | |
| 2023/6/1 | -23.1 | 2.12% | 45.6 | 0.5 | | | |
| | Dipole D5GH | IzV2 SN 1095 for 530 | 0 | | | | |
| | Н | lead Liquid | | | | | |
| Date of Measurement | Return Loss(dB) | Δ% | Impedance (Ω) | ΔΩ | | | |
| 2022/6/1 | -29.5 | / | 47.8 | / | | | |
| 2023/6/1 | -28.8 | 2.37% | 46.9 | 0.9 | | | |
| | Dipole D5GH | IzV2 SN 1095 for 550 | 0 | | | | |
| | Н | lead Liquid | | | | | |
| Date of Measurement | Return Loss(dB) | Δ% | Impedance (Ω) | ΔΩ | | | |
| 2022/6/1 | -27.4 | / | 50.3 | / | | | |
| 2023/6/1 | -27.6 | -0.73% | 50.8 | -0.5 | | | |
| | • | IzV2 SN 1095 for 560 | 0 | | | | |
| | Н | lead Liquid | | | | | |
| Date of Measurement | Return Loss(dB) | Δ% | Impedance (Ω) | ΔΩ | | | |
| 2022/6/1 | -24.0 | / | 54.5 | / | | | |
| 2023/6/1 | -23.6 | 1.67% | 54.9 | -0.4 | | | |
| | | IzV2 SN 1095 for 580 | 0 | | | | |
| | H | lead Liquid | | T | | | |
| Date of Measurement | Return Loss(dB) | Δ% | Impedance (Ω) | ΔΩ | | | |
| 2022/6/1 | -24.9 | / | 51.5 | / | | | |
| 2023/6/1 | -24.3 | 2.41% | 51.0 | 0.5 | | | |



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