



SAR DISTRIBUTION SCANS FROM RADIO FREQUENCY INVESTIGATION LTD.

Test of: Sendo Ltd.
S331 Dual Band Mobile Handset with PHF and Case Accessory

To: OET Bulletin 65 Supplement C: (2001-01)

Measurements were performed on the DASY4 System.

Test Report Serial No:
RFI/SARB2/RP45705JD03A

RADIO FREQUENCY INVESTIGATION LTD.

Operations Department

Test Of: Sendo Ltd.

**To: S331 Dual Band Mobile Handset with PHF and Case Accessory
OET Bulletin 65 Supplement C: (2001-01)**

SAR Distribution Scans

S.No. RFI/SARB2/RP45705JD03A

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Issue Date: 02 March 2004

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SAR Distribution Scans

This appendix contains SAR Distribution Scans.

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002	LHS_Tilt_850
003	LHS_Touch_660
004	LHS_Touch_850
005	LHS_Worstcase_High_660
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007	RHS_Right_512
008	RHS_Tilt_660
009	RHS_Tilt_850
010	RHS_Touch_660
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RADIO FREQUENCY INVESTIGATION LTD.

Operations Department

Test Of: Sendo Ltd.

**To: S331 Dual Band Mobile Handset with PHF and Case Accessory
OET Bulletin 65 Supplement C: (2001-01)**

SAR Distribution Scans

S.No. RFI/SARB2/RP45705JD03A

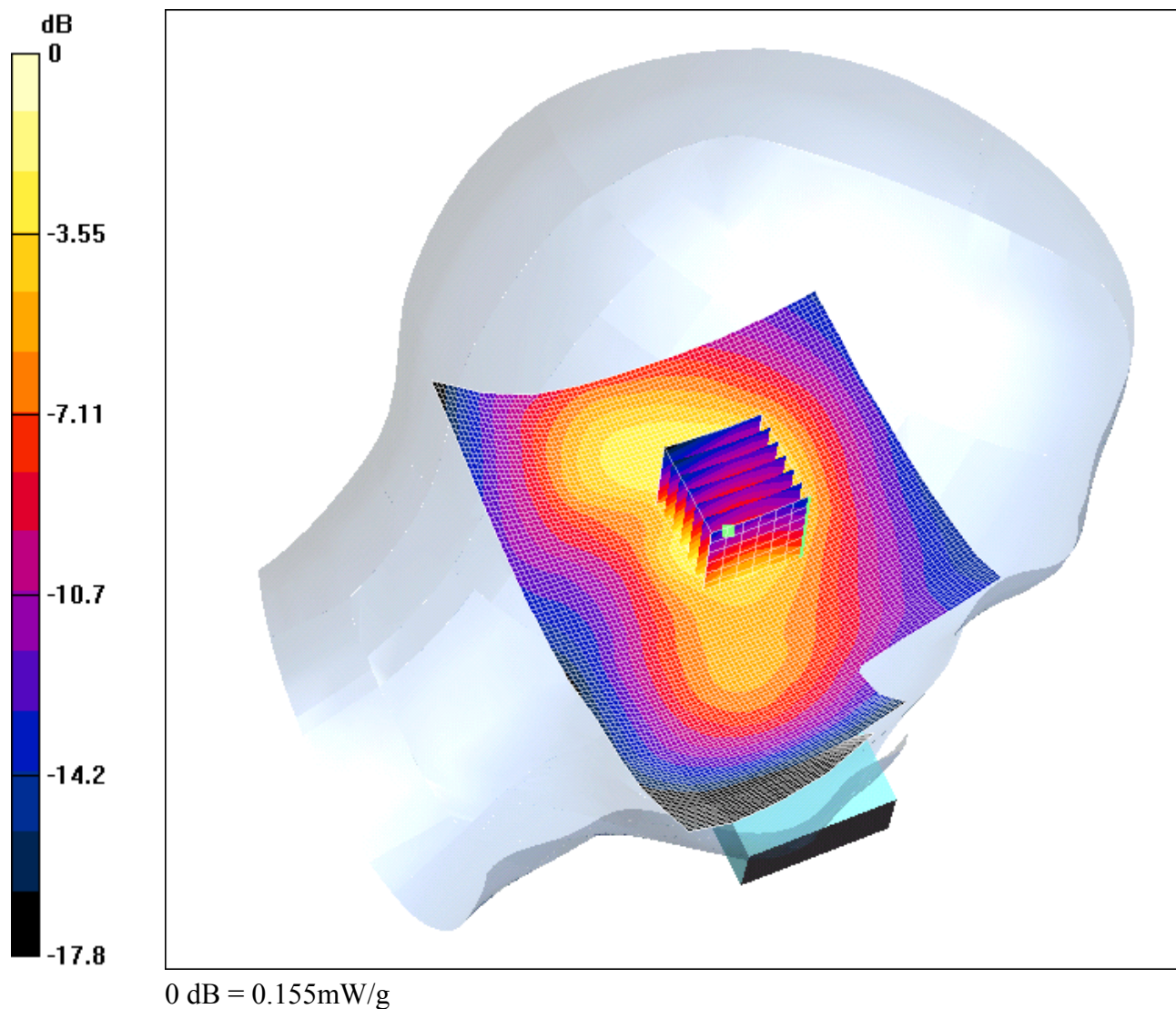
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Issue Date: 02 March 2004

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Date: 09/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Sendo; Type: S331; Serial: 004400004474589

Communication System: DCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900MHz HSL ($\sigma = 1.41613$ mho/m, $\epsilon_r = 39.8763$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.8, 4.8, 4.8); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Tilt position - Middle/Area Scan 2 (81x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 8.59 V/m

Power Drift = -0.4 dB

Maximum value of SAR = 0.146 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.0811 mW/g

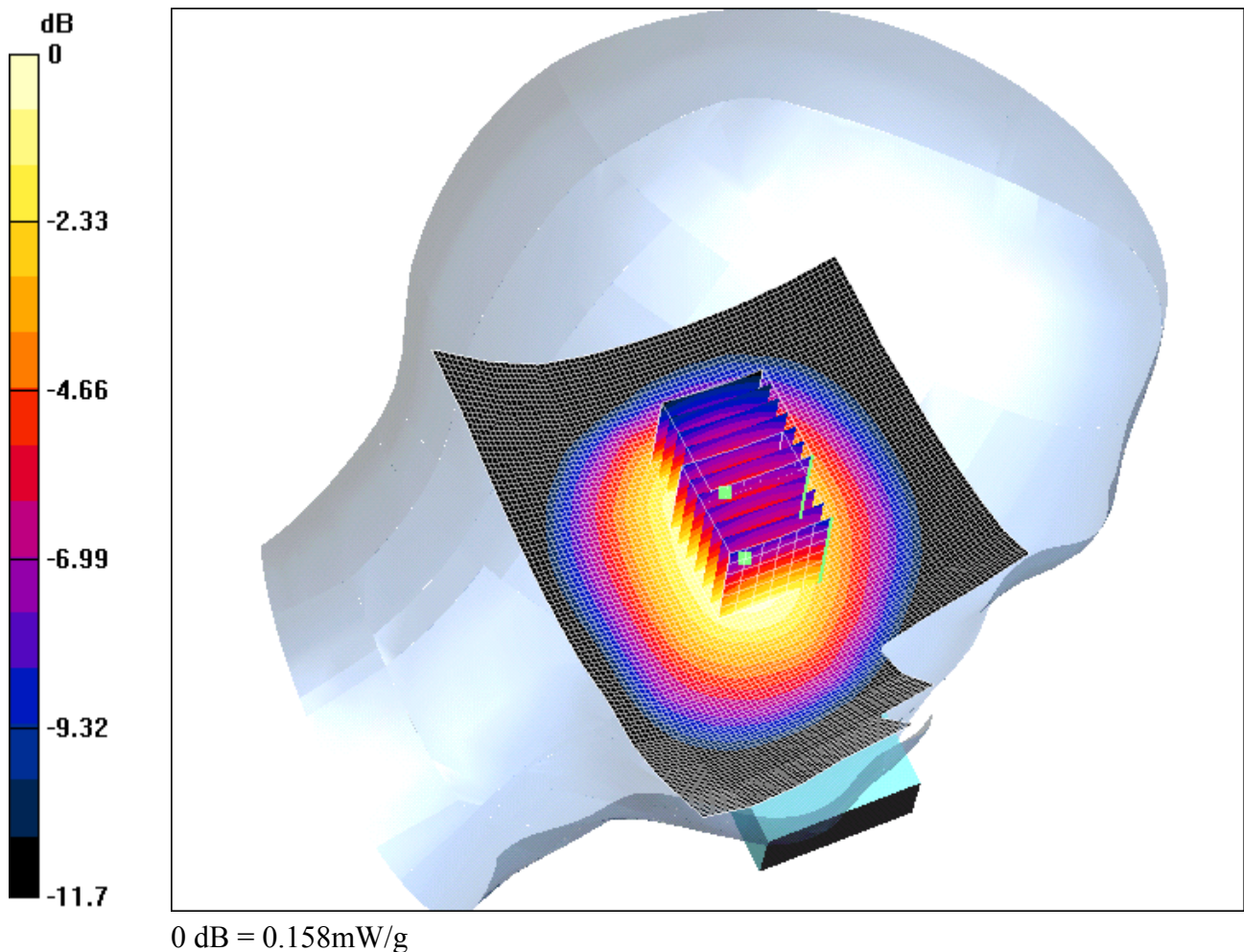
Reference Value = 8.59 V/m

Power Drift = -0.4 dB

Maximum value of SAR = 0.155 mW/g

Date: 08/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Sendo; Type: S331; Serial: 004400004474589

Communication System: 850 MHz; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: 900MHz HSL ($\sigma = 0.886287$ mho/m, $\epsilon_r = 41.7172$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.4, 6.4, 64); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Tilt position - Middle/Area Scan 2 (81x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.5 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 0.164 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.149 mW/g; SAR(10 g) = 0.104 mW/g

Reference Value = 12.5 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 0.157 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.2 W/kg

SAR(1 g) = 0.146 mW/g; SAR(10 g) = 0.1 mW/g

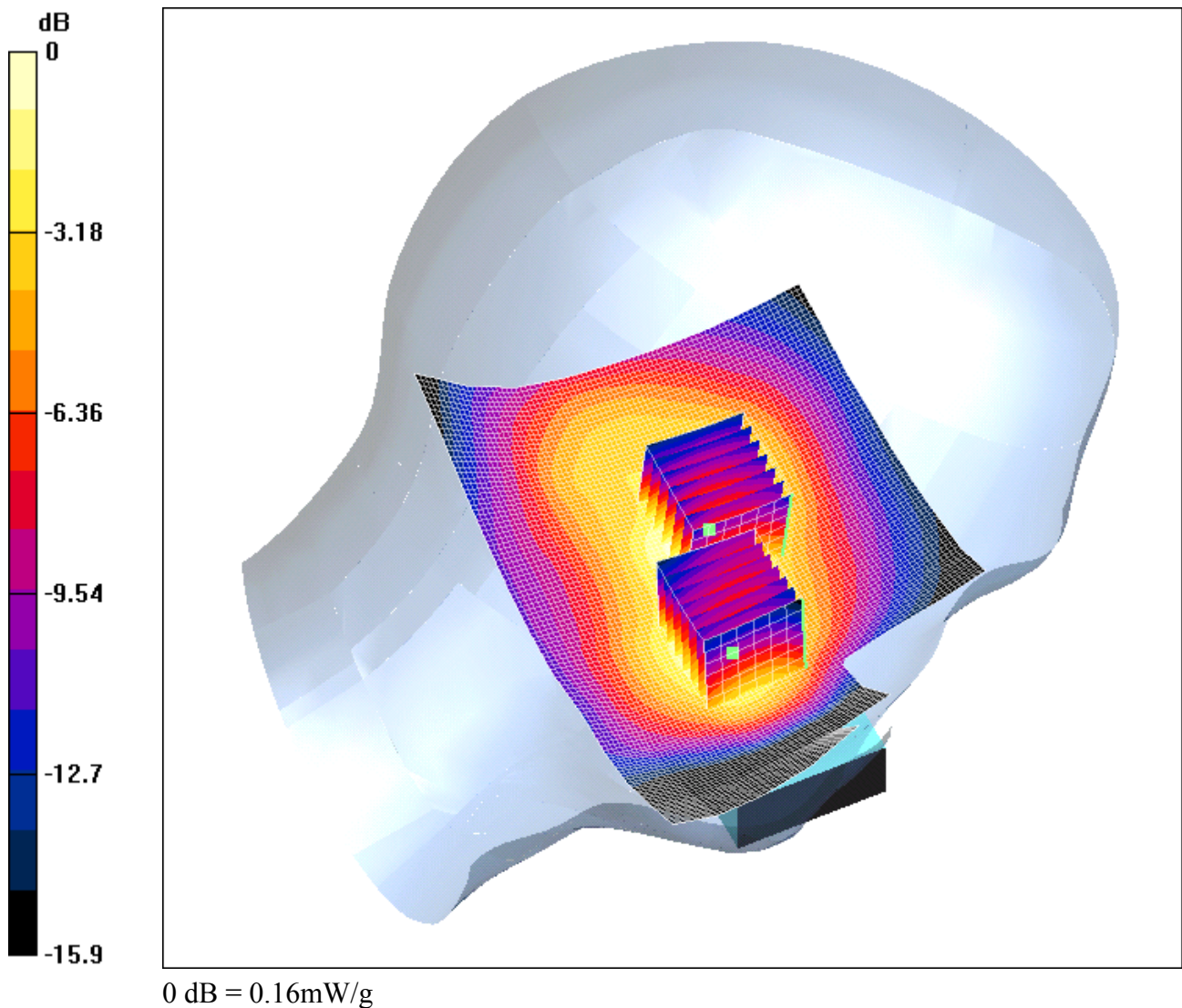
Reference Value = 12.5 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 0.158 mW/g

Date: 09/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Sendo; Type: S331; Serial: 004400004474589

Communication System: DCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900MHz HSL ($\sigma = 1.41613$ mho/m, $\epsilon_r = 39.8763$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.8, 4.8, 4.8); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Touch position - Middle/Area Scan 2 (81x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.9 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.204 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.277 W/kg

SAR(1 g) = 0.19 mW/g; SAR(10 g) = 0.112 mW/g

Reference Value = 9.9 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.207 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.22 W/kg

SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.0963 mW/g

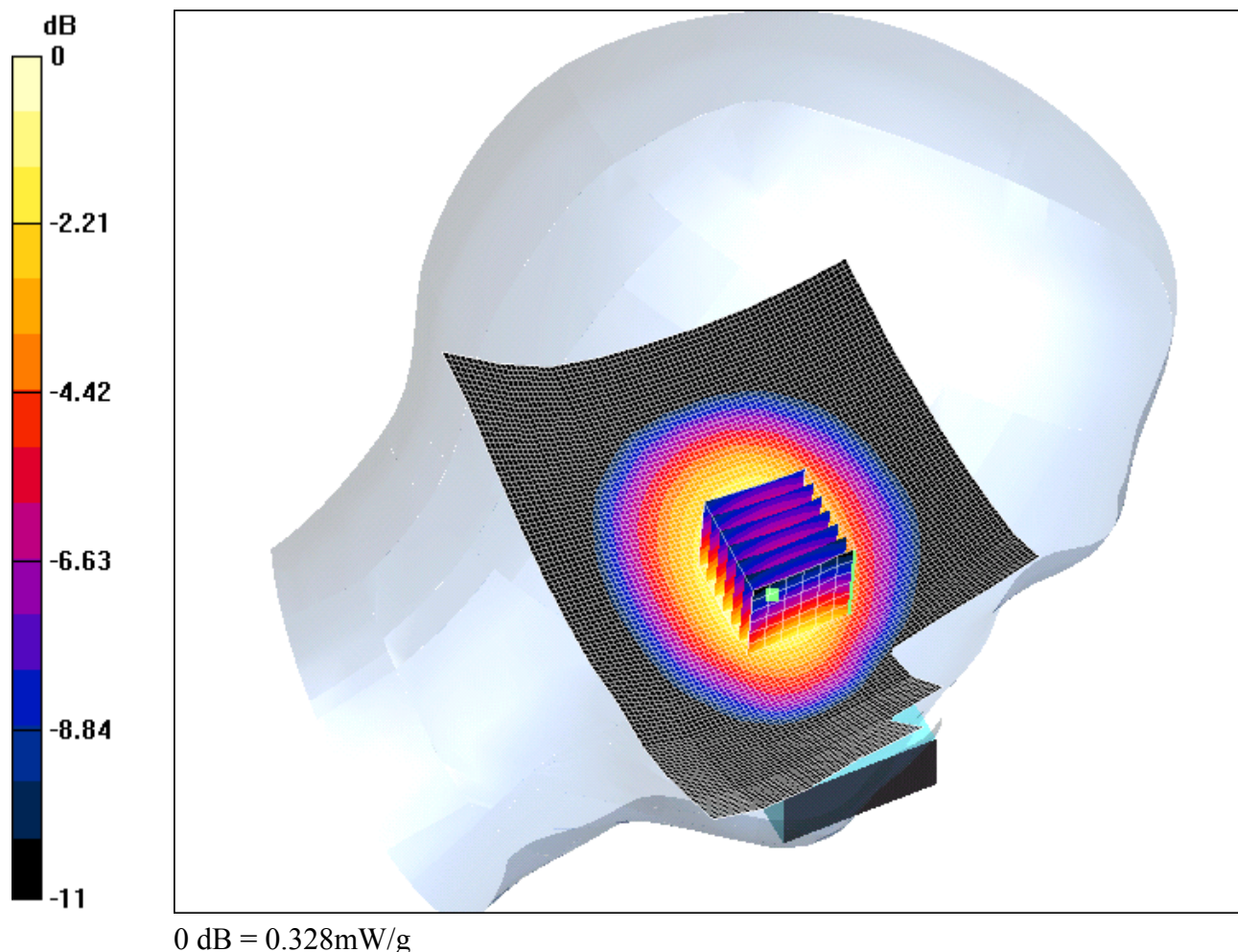
Reference Value = 9.9 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.16 mW/g

Date: 08/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Sendo; Type: S331; Serial: 004400004474589

Communication System: 850 MHz; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: 900MHz HSL ($\sigma = 0.886287$ mho/m, $\epsilon_r = 41.7172$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.4, 6.4, 64); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Touch position - Middle/Area Scan 2 (81x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 14.5 V/m

Power Drift = 0.001 dB

Maximum value of SAR = 0.338 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.211 mW/g

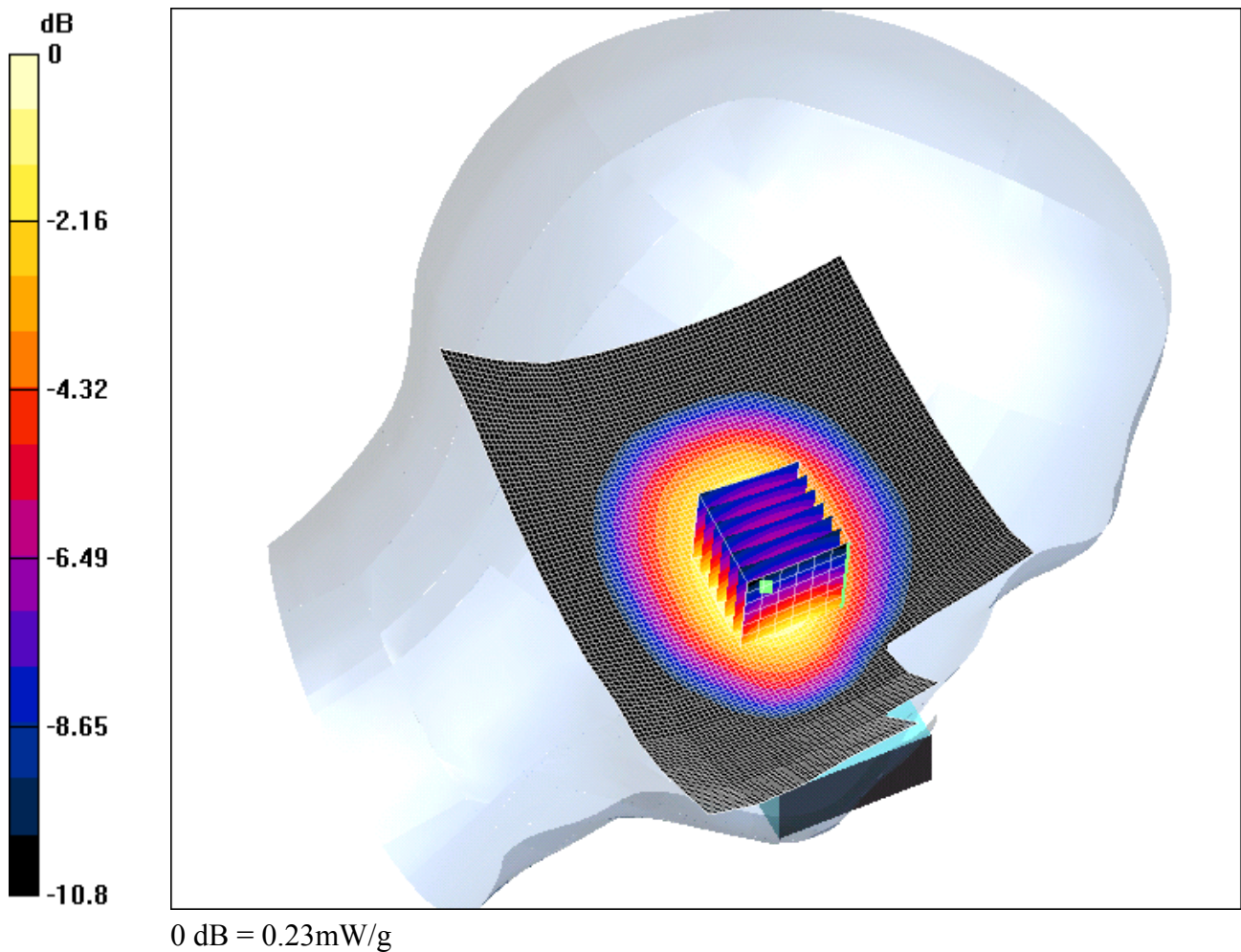
Reference Value = 14.5 V/m

Power Drift = 0.001 dB

Maximum value of SAR = 0.328 mW/g

Date: 08/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Sendo; Type: S331; Serial: 004400004474589

Communication System: 850 MHz; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: 900MHz HSL ($\sigma = 0.886287$ mho/m, $\epsilon_r = 41.7172$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.4, 6.4, 64); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Touch position - Middle 3/Area Scan 2 (81x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.1 V/m

Power Drift = -0.05 dB

Maximum value of SAR = 0.243 mW/g

Touch position - Middle 3/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.331 W/kg

SAR(1 g) = 0.222 mW/g; SAR(10 g) = 0.147 mW/g

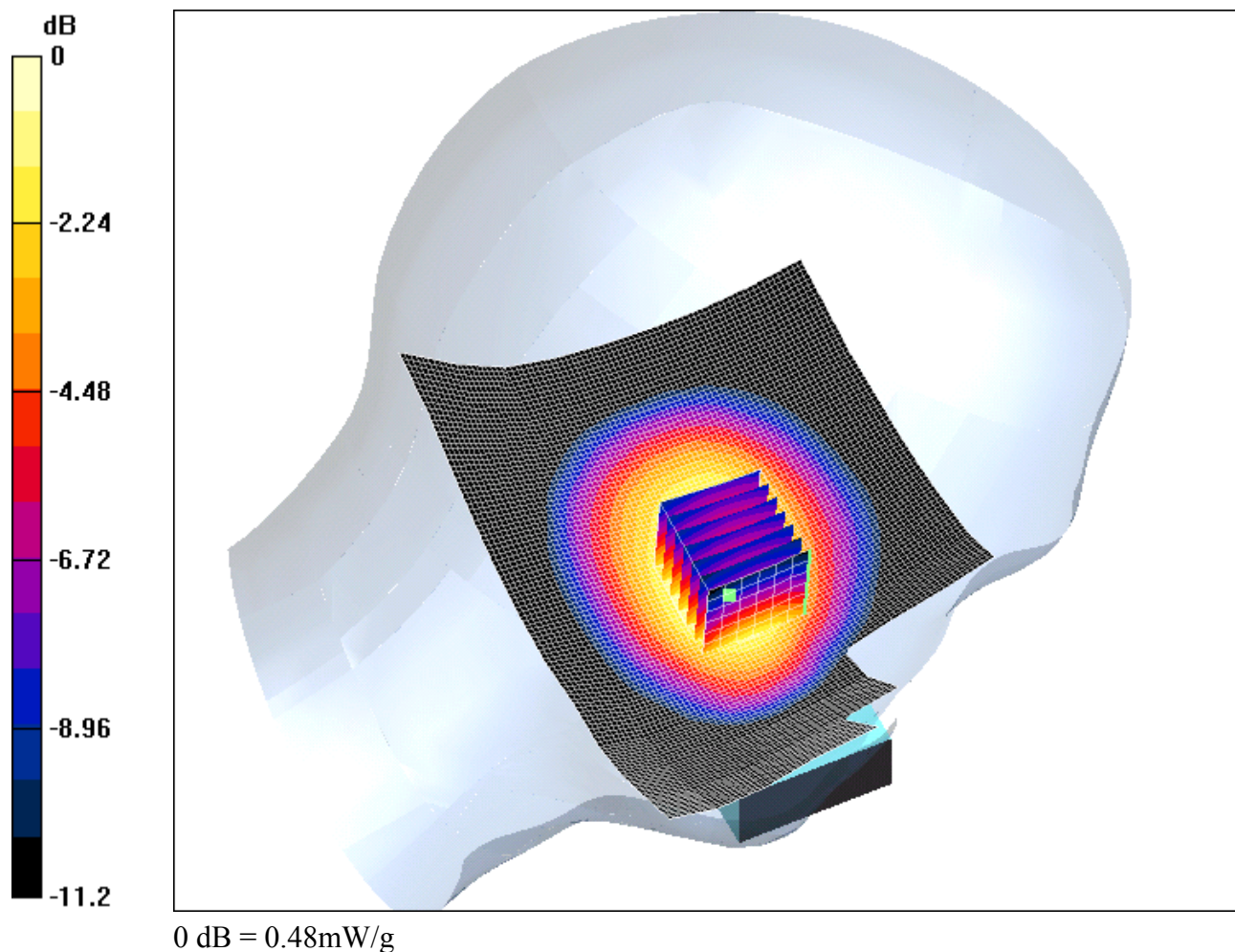
Reference Value = 12.1 V/m

Power Drift = -0.05 dB

Maximum value of SAR = 0.23 mW/g

Date/Time: 08/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Sendo; Type: S331; Serial: 004400004474589

Communication System: 850 MHz; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: 900MHz HSL ($\sigma = 0.865016$ mho/m, $\epsilon_r = 41.9324$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.4, 6.4, 64); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Touch position - Middle 2/Area Scan 2 (81x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 18 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.507 mW/g

Touch position - Middle 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.69 W/kg

SAR(1 g) = 0.462 mW/g; SAR(10 g) = 0.308 mW/g

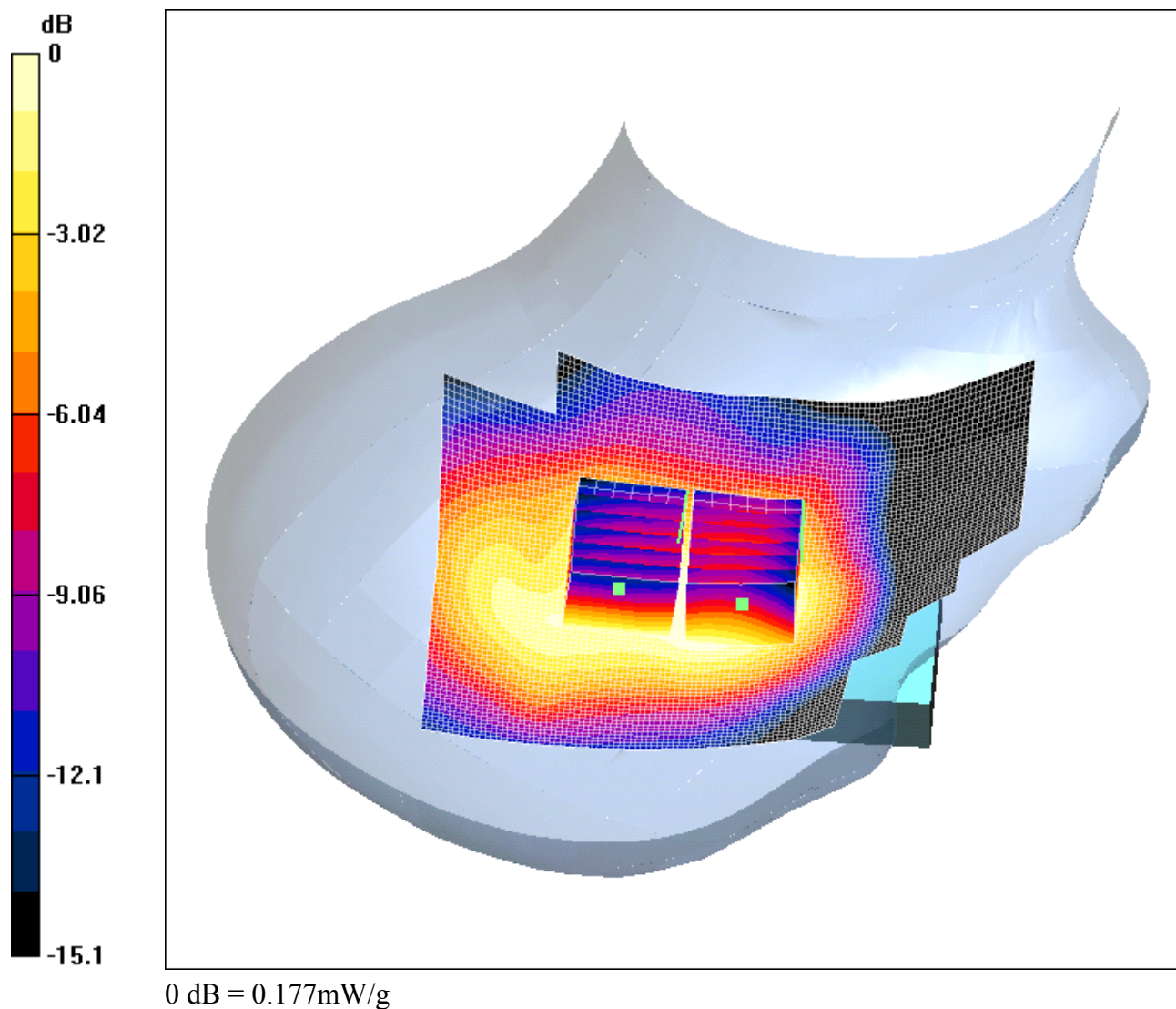
Reference Value = 18 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.48 mW/g

Date: 09/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Sendo; Type: S331; Serial: 004400004474589

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: 1900MHz HSL ($\sigma = 1.39448$ mho/m, $\epsilon_r = 39.9494$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.8, 4.8, 4.8); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

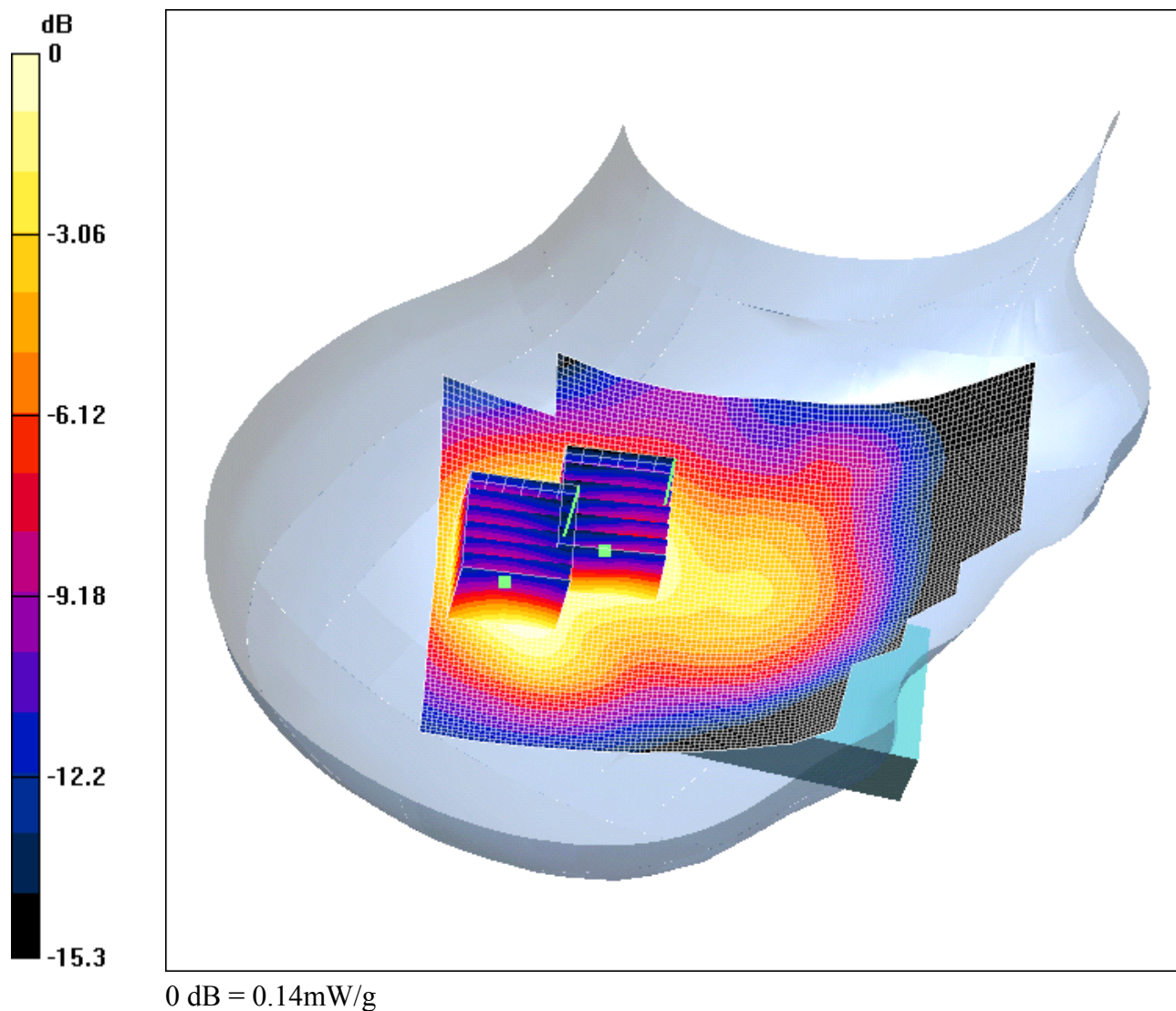
Touch position - Low - WorstCase/Area Scan 2 (81x111x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 11.2 V/m
Power Drift = -0.09 dB
Maximum value of SAR = 0.209 mW/g

Touch position - Low - WorstCase/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.309 W/kg
SAR(1 g) = 0.205 mW/g; SAR(10 g) = 0.127 mW/g
Reference Value = 11.2 V/m
Power Drift = -0.09 dB
Maximum value of SAR = 0.217 mW/g

Touch position - Low - WorstCase/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.226 W/kg
SAR(1 g) = 0.163 mW/g; SAR(10 g) = 0.105 mW/g
Reference Value = 11.2 V/m
Power Drift = -0.09 dB
Maximum value of SAR = 0.177 mW/g

Date: 09/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Sendo; Type: S331; Serial: 004400004474589

Communication System: DCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900MHz HSL ($\sigma = 1.41613$ mho/m, $\epsilon_r = 39.8763$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.8, 4.8, 4.8); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Tilt position - Middle/Area Scan 2 (81x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 8.96 V/m

Power Drift = -0.3 dB

Maximum value of SAR = 0.136 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.214 W/kg

SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.0771 mW/g

Reference Value = 8.96 V/m

Power Drift = -0.3 dB

Maximum value of SAR = 0.143 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.193 W/kg

SAR(1 g) = 0.129 mW/g; SAR(10 g) = 0.0764 mW/g

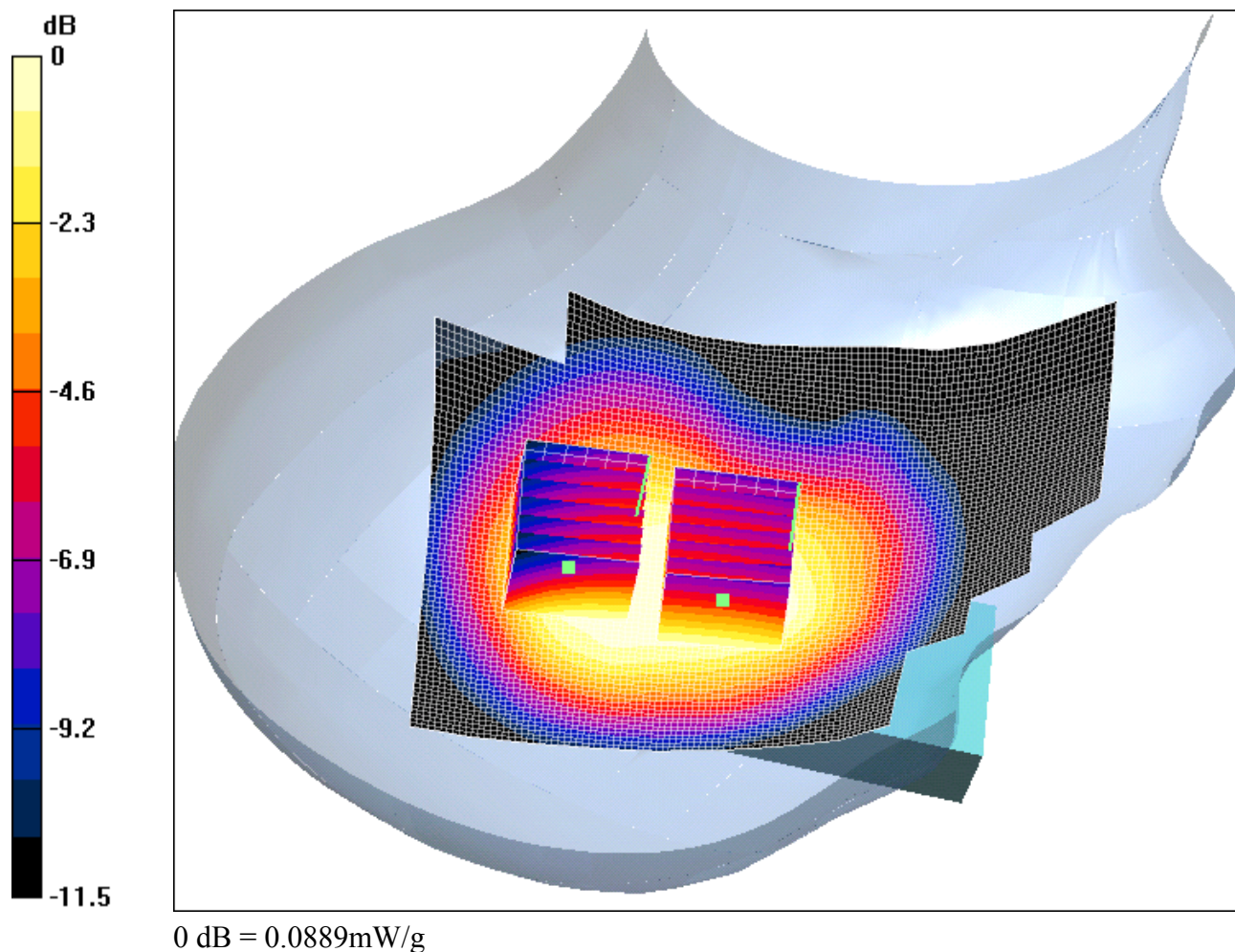
Reference Value = 8.96 V/m

Power Drift = -0.3 dB

Maximum value of SAR = 0.14 mW/g

Date: 08/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Sendo; Type: S331; Serial: 004400004474589

Communication System: 850 MHz; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: 900MHz HSL ($\sigma = 0.886287$ mho/m, $\epsilon_r = 41.7172$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.4, 6.4, 64); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Tilt position - Middle/Area Scan 2 (81x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.66 V/m

Power Drift = -0.007 dB

Maximum value of SAR = 0.107 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.13 W/kg

SAR(1 g) = 0.1 mW/g; SAR(10 g) = 0.0701 mW/g

Reference Value = 9.66 V/m

Power Drift = -0.007 dB

Maximum value of SAR = 0.107 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.1 W/kg

SAR(1 g) = 0.0757 mW/g; SAR(10 g) = 0.0571 mW/g

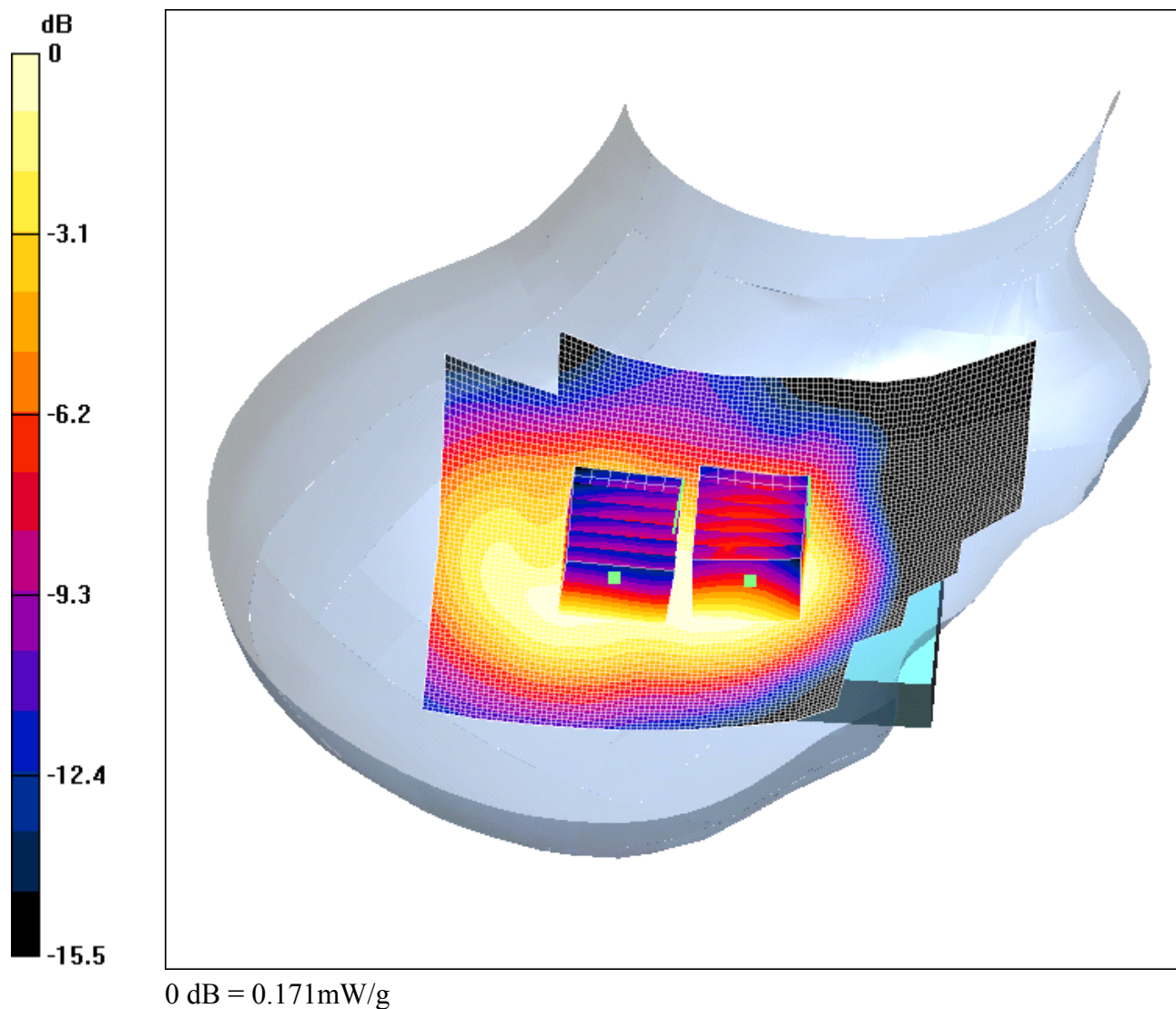
Reference Value = 9.66 V/m

Power Drift = -0.007 dB

Maximum value of SAR = 0.0889 mW/g

Date: 09/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Sendo; Type: S331; Serial: 004400004474589

Communication System: DCS 1900; Frequency: 1879.8 MHz; Duty Cycle: 1:8.3

Medium: 1900MHz HSL ($\sigma = 1.41613$ mho/m, $\epsilon_r = 39.8763$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.8, 4.8, 4.8); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Touch position - Middle/Area Scan 2 (81x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 11.1 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 0.237 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.346 W/kg

SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.134 mW/g

Reference Value = 11.1 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 0.235 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.22 W/kg

SAR(1 g) = 0.157 mW/g; SAR(10 g) = 0.1 mW/g

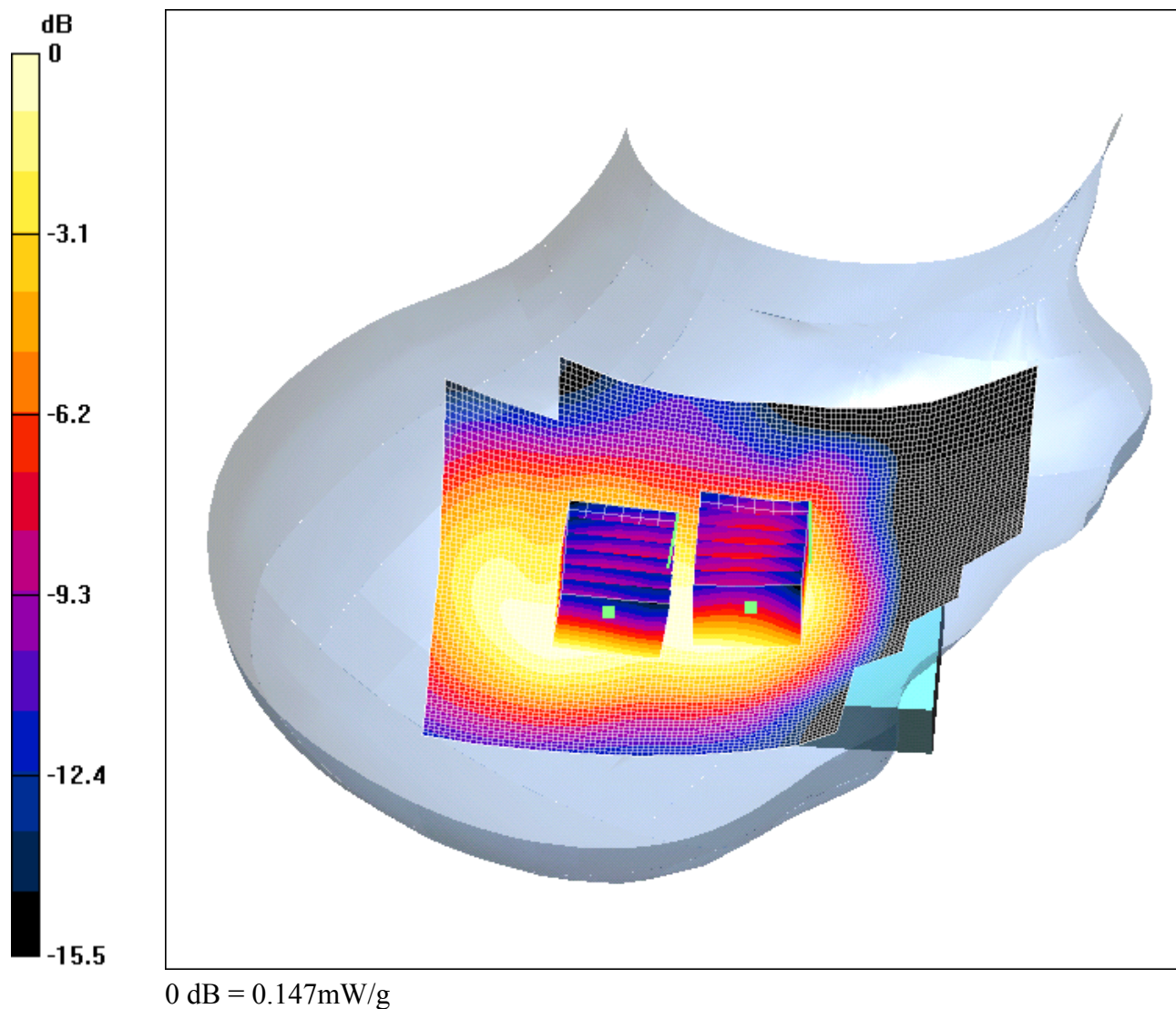
Reference Value = 11.1 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 0.171 mW/g

Date: 09/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Sendo; Type: S331; Serial: 004400004474589

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: 1900MHz HSL ($\sigma = 1.43677$ mho/m, $\epsilon_r = 39.7924$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.8, 4.8, 4.8); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

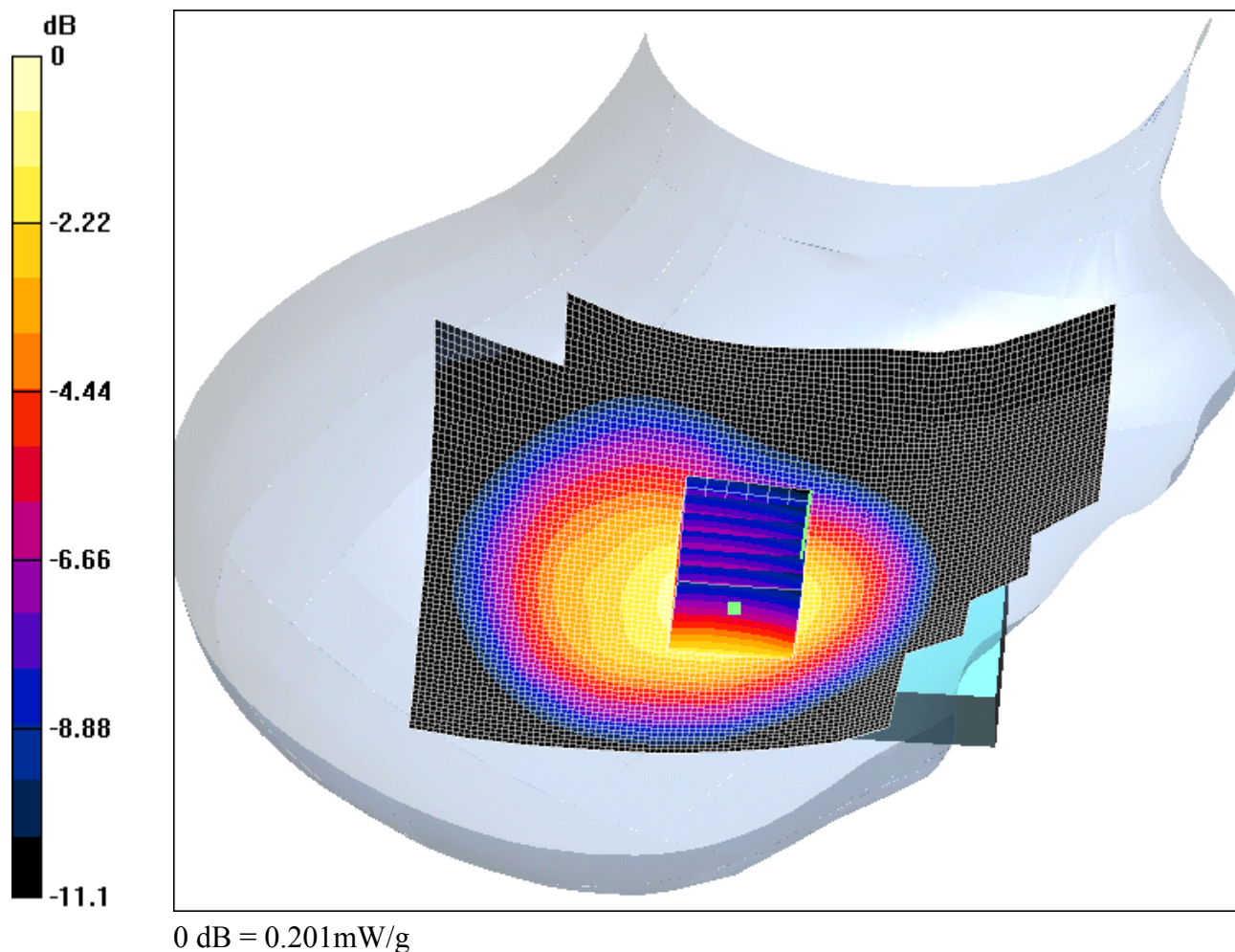
Touch position - High - WorstCase/Area Scan 2 (81x111x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 10.4 V/m
Power Drift = 0.03 dB
Maximum value of SAR = 0.168 mW/g

Touch position - High - WorstCase/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.246 W/kg
SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.0977 mW/g
Reference Value = 10.4 V/m
Power Drift = 0.03 dB
Maximum value of SAR = 0.174 mW/g

Touch position - High - WorstCase/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.208 W/kg
SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.0858 mW/g
Reference Value = 10.4 V/m
Power Drift = 0.03 dB
Maximum value of SAR = 0.147 mW/g

Date: 08/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Sendo; Type: S331; Serial: 004400004474589

Communication System: 850 MHz; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: 900MHz HSL ($\sigma = 0.886287$ mho/m, $\epsilon_r = 41.7172$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.4, 6.4, 64); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

Touch position - Middle/Area Scan 2 (81x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 11.4 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.197 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 0.26 W/kg

SAR(1 g) = 0.186 mW/g; SAR(10 g) = 0.124 mW/g

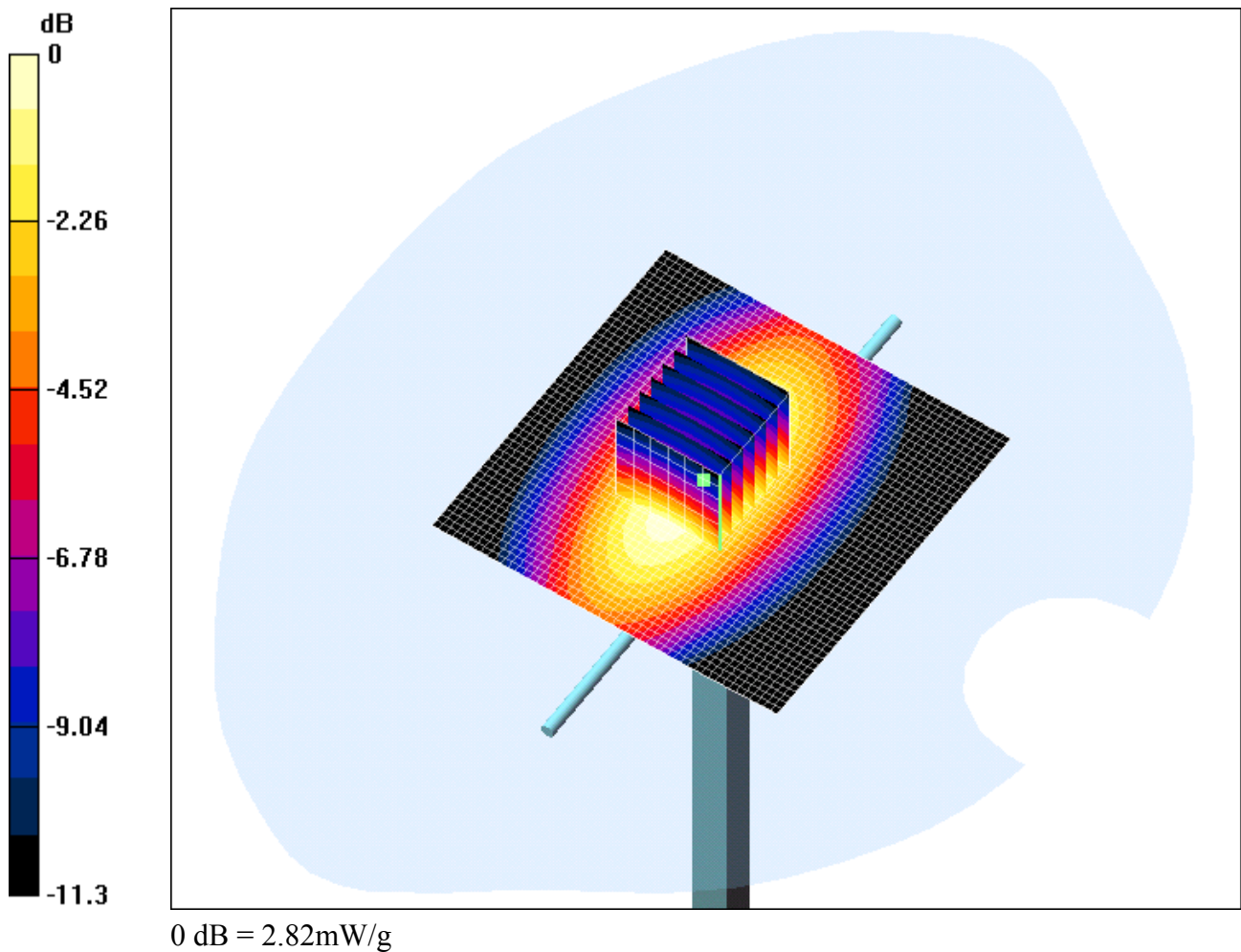
Reference Value = 11.4 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.201 mW/g

Date: 08/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Dipole 900 MHz; Type: D900V2; Serial: SN124

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: 900MHz HSL ($\sigma = 0.957068$ mho/m, $\epsilon_r = 41.0436$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.3, 6.3, 6.3); Calibrated: 29/07/2003

- Sensor-Surface: 4mm (Mechanical Surface Detection)

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 19/05/2003

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

d=10mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 55.7 V/m

Power Drift = -0.03 dB

Maximum value of SAR = 2.78 mW/g

d=10mm, Pin=250mW/Zoom Scan 7x7x7 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 3.89 W/kg

SAR(1 g) = 2.61 mW/g; SAR(10 g) = 1.65 mW/g

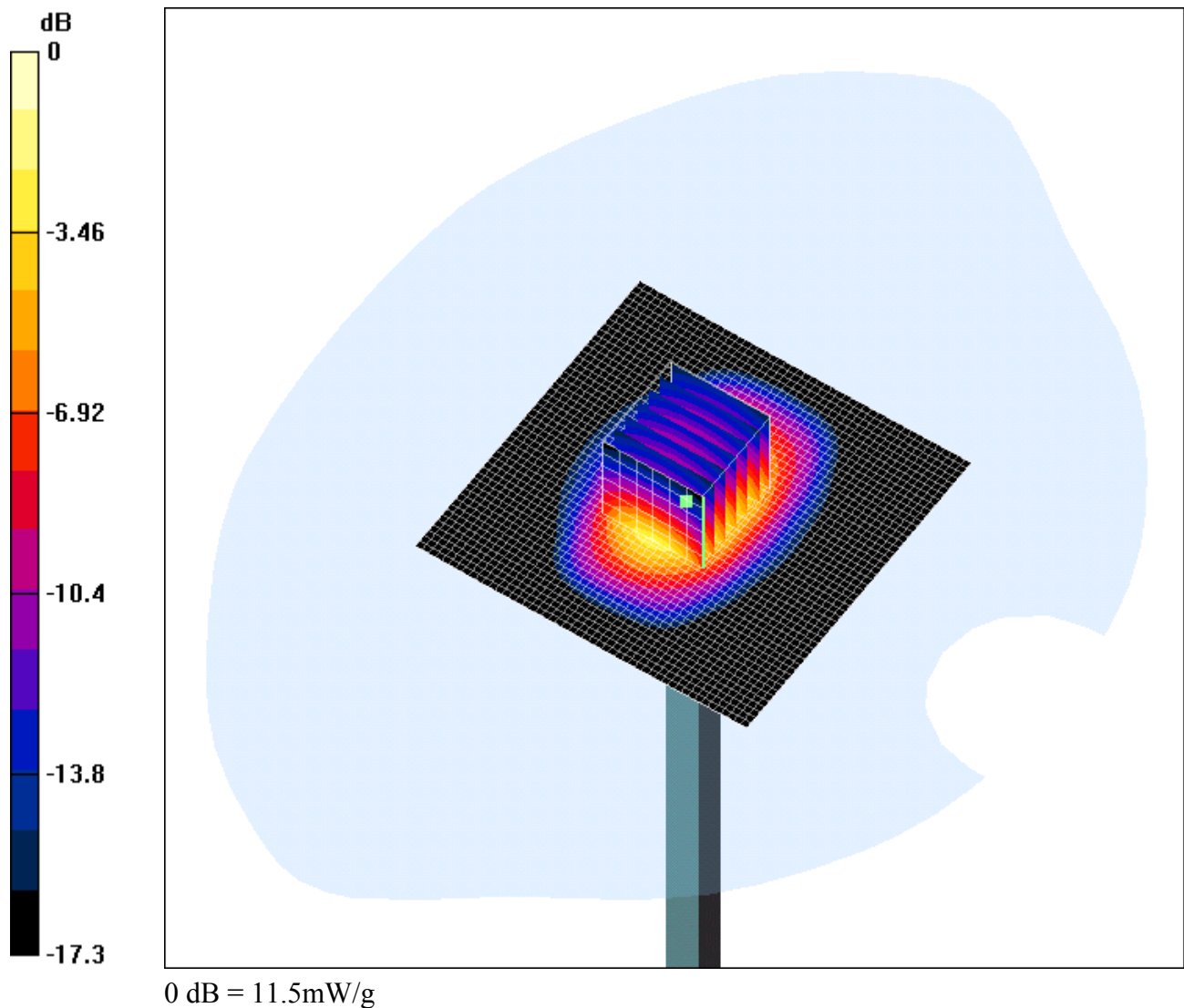
Reference Value = 55.7 V/m

Power Drift = -0.03 dB

Maximum value of SAR = 2.82 mW/g

Date: 09/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN540

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900MHz HSL ($\sigma = 1.43677$ mho/m, $\epsilon_r = 39.7924$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.8, 4.8, 4.8); Calibrated: 29/07/2003

- Sensor-Surface: 4mm (Mechanical Surface Detection)

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 19/05/2003

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

d=10mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 93.4 V/m

Power Drift = 0.09 dB

Maximum value of SAR = 12.4 mW/g

d=10mm, Pin=250mW/Zoom Scan 7x7x7 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.33 mW/g

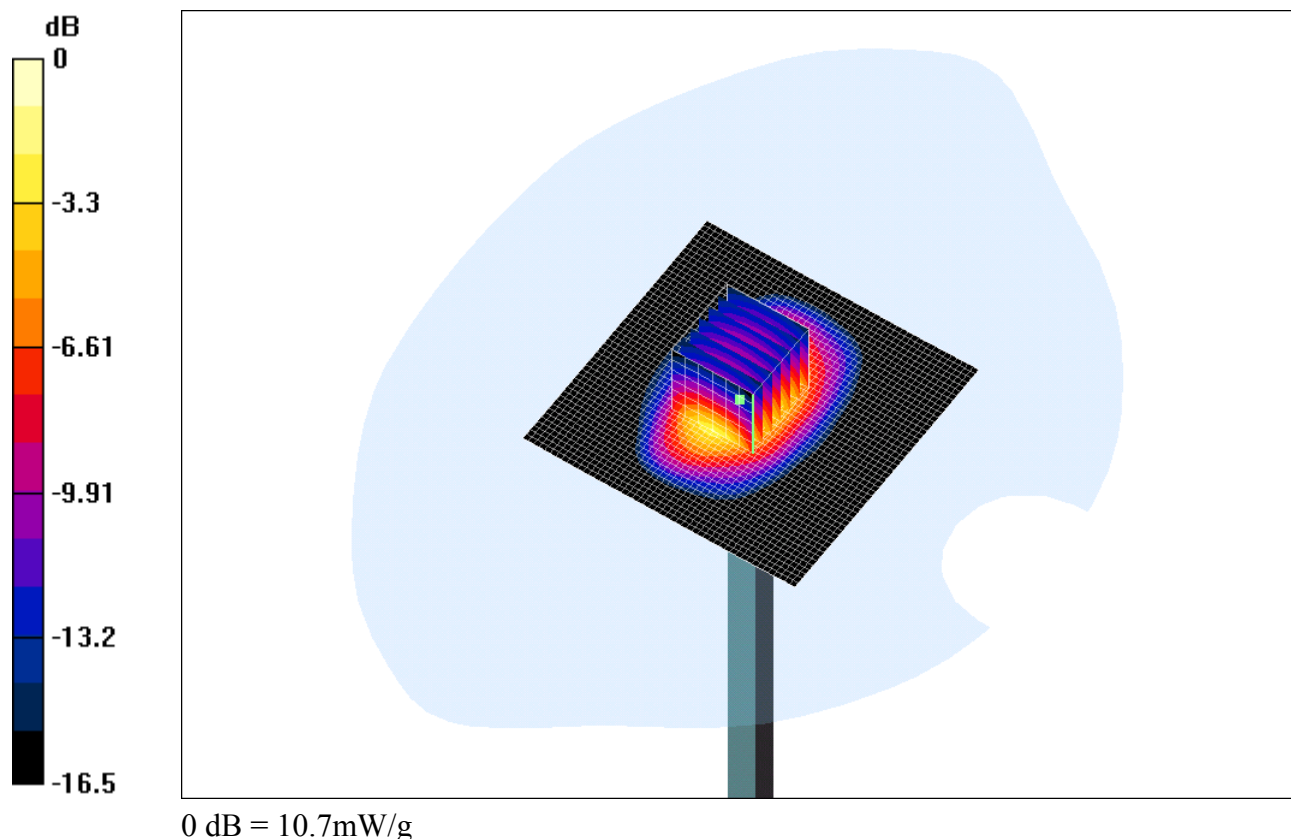
Reference Value = 93.4 V/m

Power Drift = 0.09 dB

Maximum value of SAR = 11.5 mW/g

Date: 10/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: SN2d009

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium: 1900MSL ($\sigma = 1.50143$ mho/m, $\epsilon_r = 52.148$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(4.6, 4.6, 4.6); Calibrated: 29/07/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn450; Calibrated: 19/05/2003
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

d=10mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 86.1 V/m

Power Drift = 0.02 dB

Maximum value of SAR = 10.7 mW/g

d=10mm, Pin=250mW/Zoom Scan 7x7x7 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

$dz=5\text{mm}$

Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 9.45 mW/g; SAR(10 g) = 5.03 mW/g

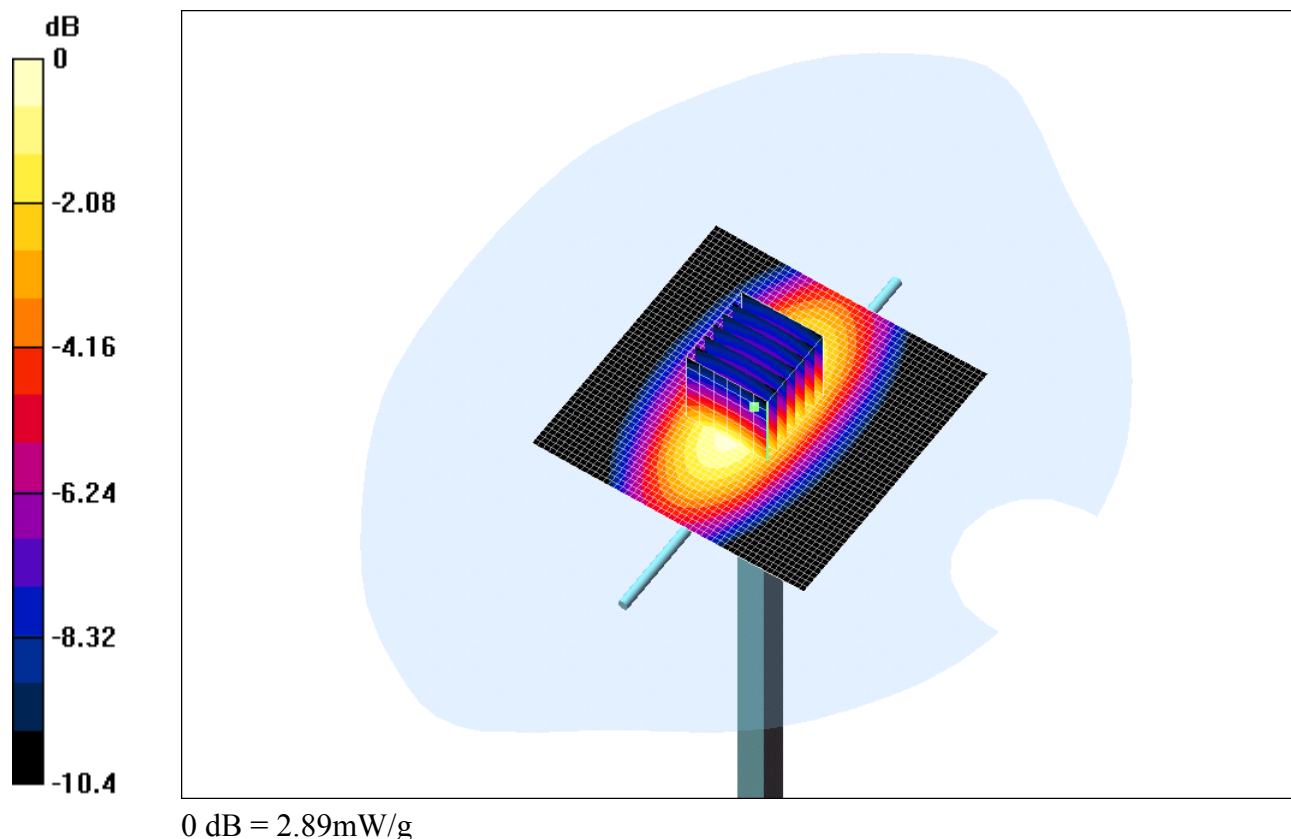
Reference Value = 86.1 V/m

Power Drift = 0.02 dB

Maximum value of SAR = 10.7 mW/g

Date: 11/12/03

Test Laboratory: RADIO FREQUENCY INVESTIGATION LTD.

DUT: Dipole 900 MHz; Type: D900V2; Serial: SN124

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: 850MHz MSL ($\sigma = 0.981241$ mho/m, $\epsilon_r = 52.7667$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1528; ConvF(6.2, 6.2, 6.2); Calibrated: 29/07/2003

- Sensor-Surface: 4mm (Mechanical Surface Detection)

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Electronics: DAE3 Sn450; Calibrated: 19/05/2003

- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1197

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 116

d=10mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 56.1 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 2.89 mW/g

d=10mm, Pin=250mW/Zoom Scan 7x7x7 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

$dz=5\text{mm}$

Peak SAR (extrapolated) = 3.81 W/kg

SAR(1 g) = 2.68 mW/g; SAR(10 g) = 1.74 mW/g

Reference Value = 56.1 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 2.89 mW/g