

## BODY\_CH810

DUT: DREA100;IMEI:358279010024279

Communication System: GSM1900; Frequency: 1909.8 MHz;Duty Cycle: 1:4  
Medium: M1800 & 1900 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 51$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.04, 9.04, 9.04); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.738 mW/g

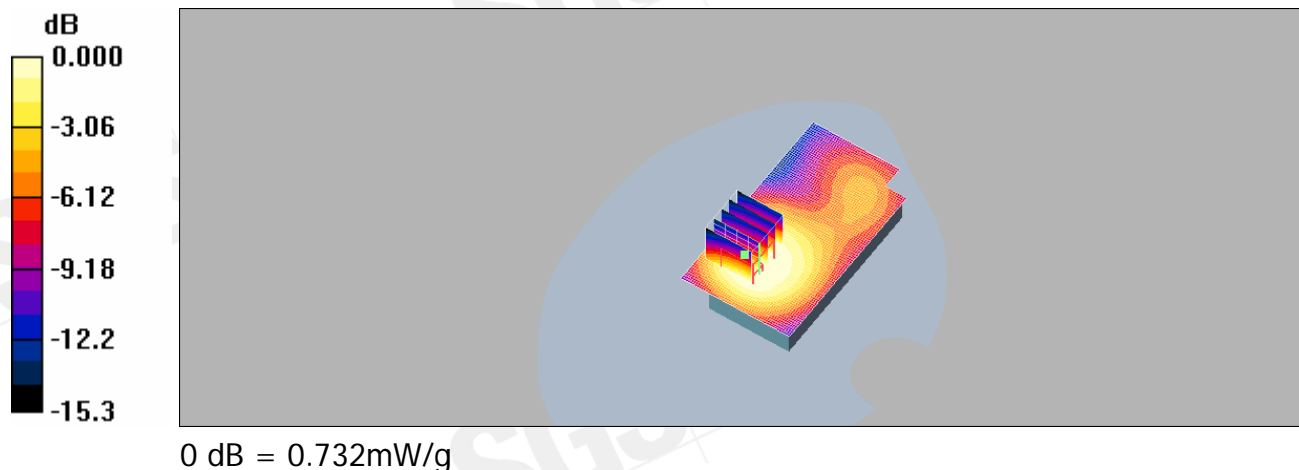
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm,  
dz=5mm

Reference Value = 19.0 V/m; Power Drift = 0.052 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.690 mW/g; SAR(10 g) = 0.434 mW/g**

Maximum value of SAR (measured) = 0.732 mW/g



Date/Time: 2008/5/28 01:08:30

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## RE Cheek\_CH1312\_slider off

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 41.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**RE\_Cheek/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.513 mW/g

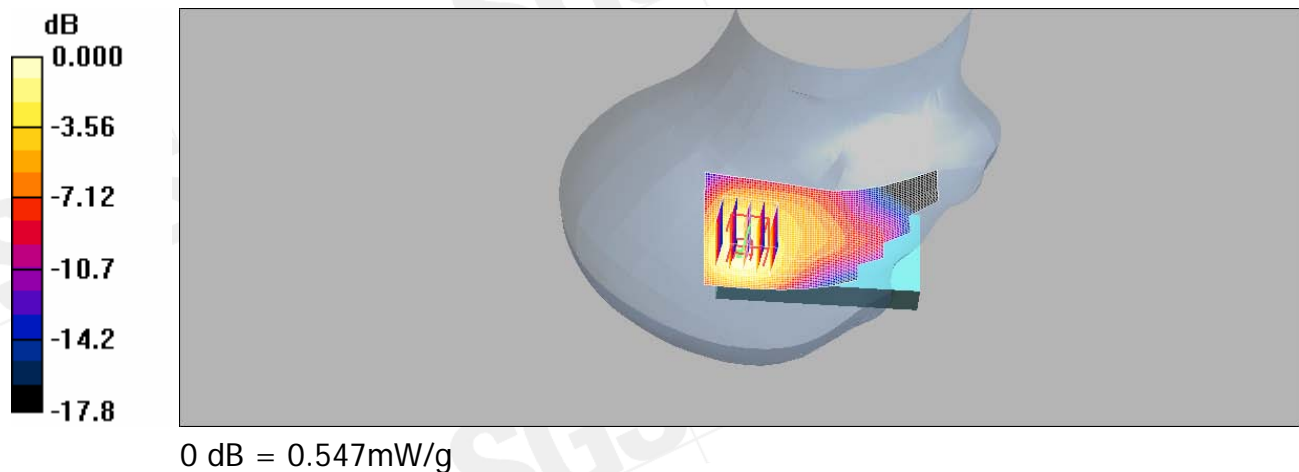
**RE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.6 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.843 W/kg

**SAR(1 g) = 0.499 mW/g; SAR(10 g) = 0.291 mW/g**

Maximum value of SAR (measured) = 0.547 mW/g



Date/Time: 2008/5/28 01:21:38

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## RE Cheek\_CH1412\_slider off

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 41.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**RE\_Cheek/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.566 mW/g

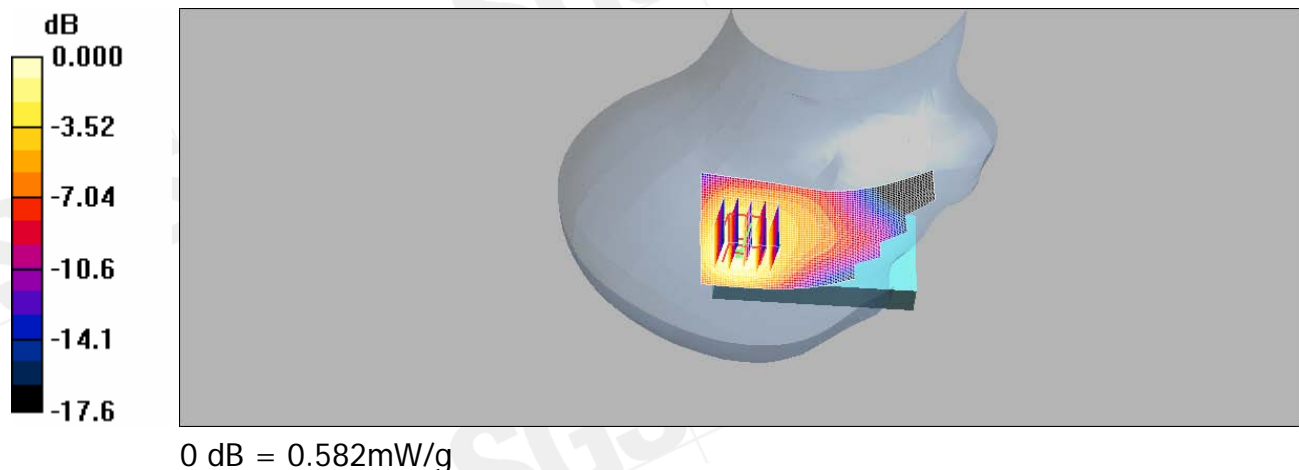
**RE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.6 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.904 W/kg

**SAR(1 g) = 0.536 mW/g; SAR(10 g) = 0.312 mW/g**

Maximum value of SAR (measured) = 0.582 mW/g



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## RE Cheek\_CH1513\_slider off

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**RE\_Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.721 mW/g

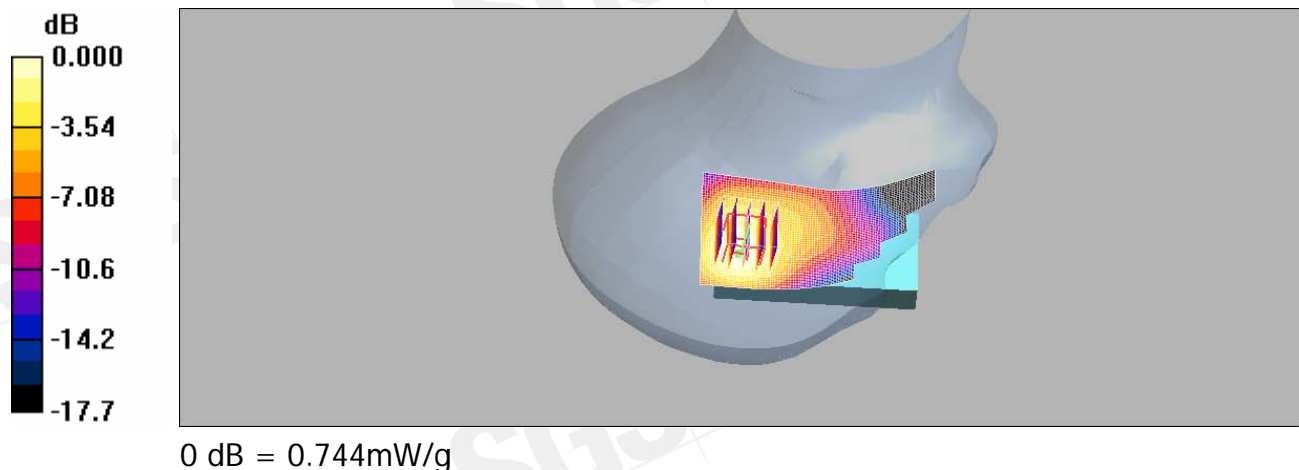
**RE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 19.9 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.687 mW/g; SAR(10 g) = 0.401 mW/g**

Maximum value of SAR (measured) = 0.744 mW/g



Date/Time: 2008/5/28 02:29:09

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## LE Cheek\_CH1312\_slider off

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1712.4 \text{ MHz}$ ;  $\sigma = 1.37 \text{ mho/m}$ ;  $\epsilon_r = 41.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.552 mW/g

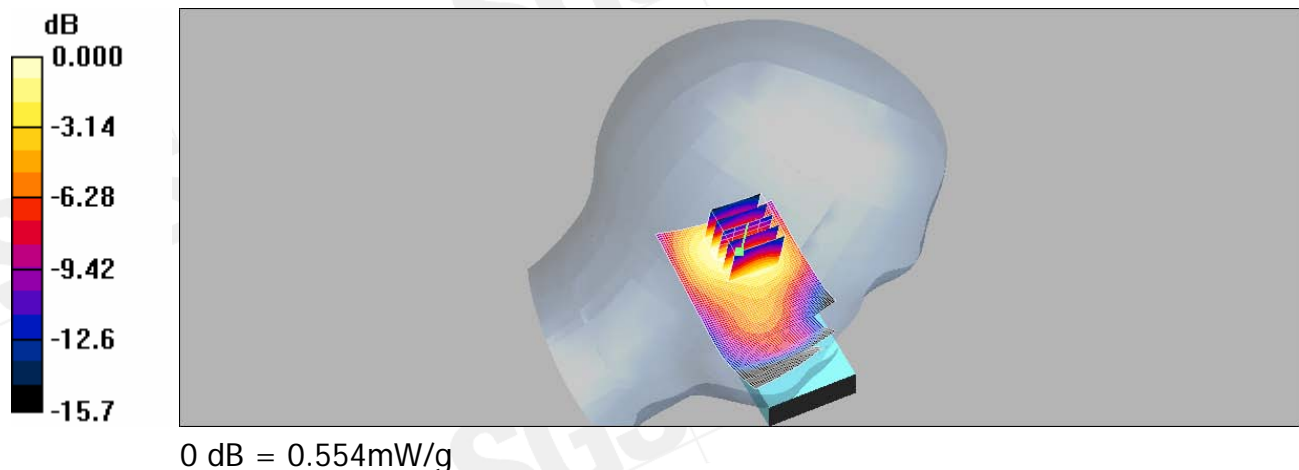
**LE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 18.8 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.776 W/kg

**SAR(1 g) = 0.511 mW/g; SAR(10 g) = 0.320 mW/g**

Maximum value of SAR (measured) = 0.554 mW/g



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## LE Cheek\_CH1412\_slider off

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1732.4 \text{ MHz}$ ;  $\sigma = 1.39 \text{ mho/m}$ ;  $\epsilon_r = 41.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Cheek/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.614 mW/g

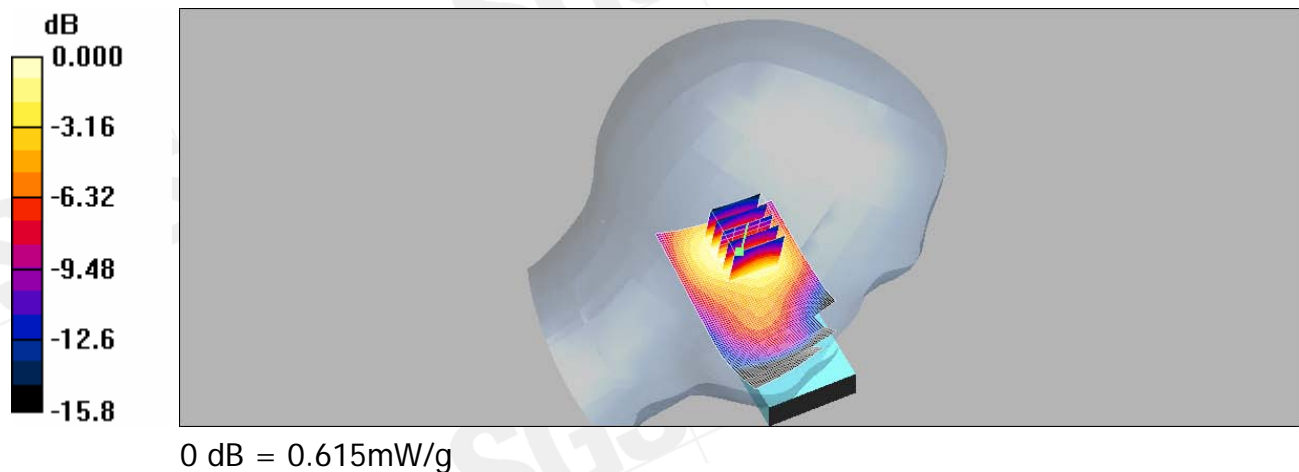
**LE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 19.6 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.868 W/kg

**SAR(1 g) = 0.570 mW/g; SAR(10 g) = 0.356 mW/g**

Maximum value of SAR (measured) = 0.615 mW/g



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## LE Cheek\_CH1513\_slider off

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Cheek/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.808 mW/g

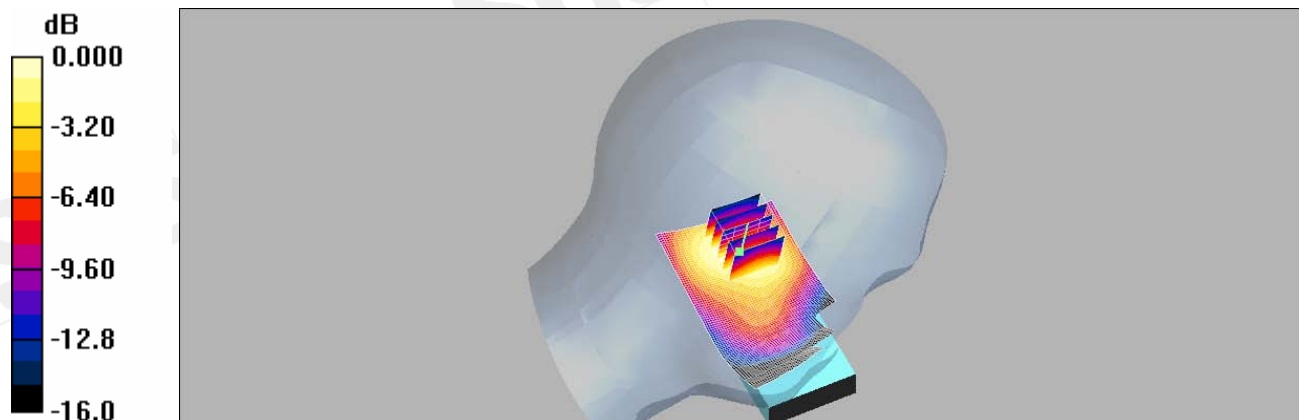
**LE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm,  
dz=5mm

Reference Value = 22.2 V/m; Power Drift = 0.079 dB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.756 mW/g; SAR(10 g) = 0.469 mW/g**

Maximum value of SAR (measured) = 0.819 mW/g



0 dB = 0.819mW/g

Date/Time: 2008/5/28 02:12:01

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## RE Tilt\_CH1312\_slider off

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1712.4 \text{ MHz}$ ;  $\sigma = 1.37 \text{ mho/m}$ ;  $\epsilon_r = 41.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**RE\_Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.720 mW/g

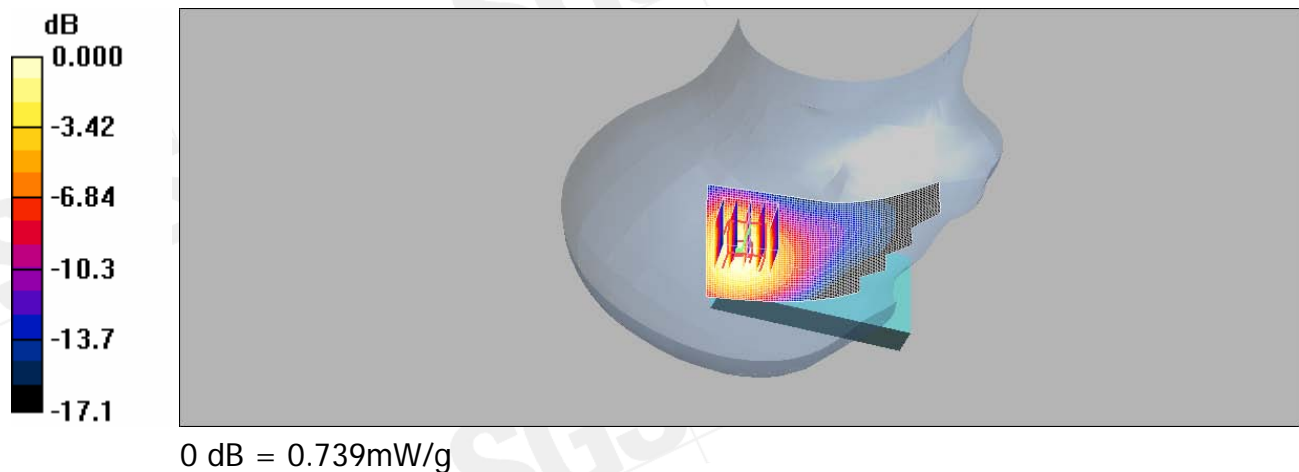
**RE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 21.6 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.670 mW/g; SAR(10 g) = 0.385 mW/g**

Maximum value of SAR (measured) = 0.739 mW/g



Date/Time: 2008/5/28 01:59:43

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## RE Tilt\_CH1412\_slider off

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 41.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**RE\_Tilt/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.814 mW/g

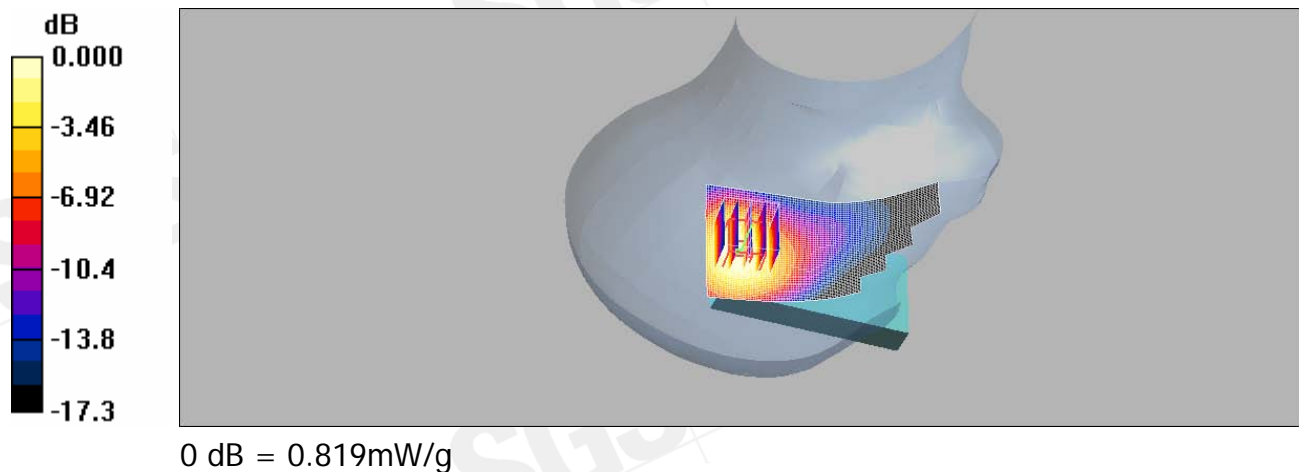
**RE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.0 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.741 mW/g; SAR(10 g) = 0.426 mW/g**

Maximum value of SAR (measured) = 0.819 mW/g



Date/Time: 2008/5/28 01:46:56

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## RE Tilt\_CH1513\_slider off

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**RE\_Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 1.09 mW/g

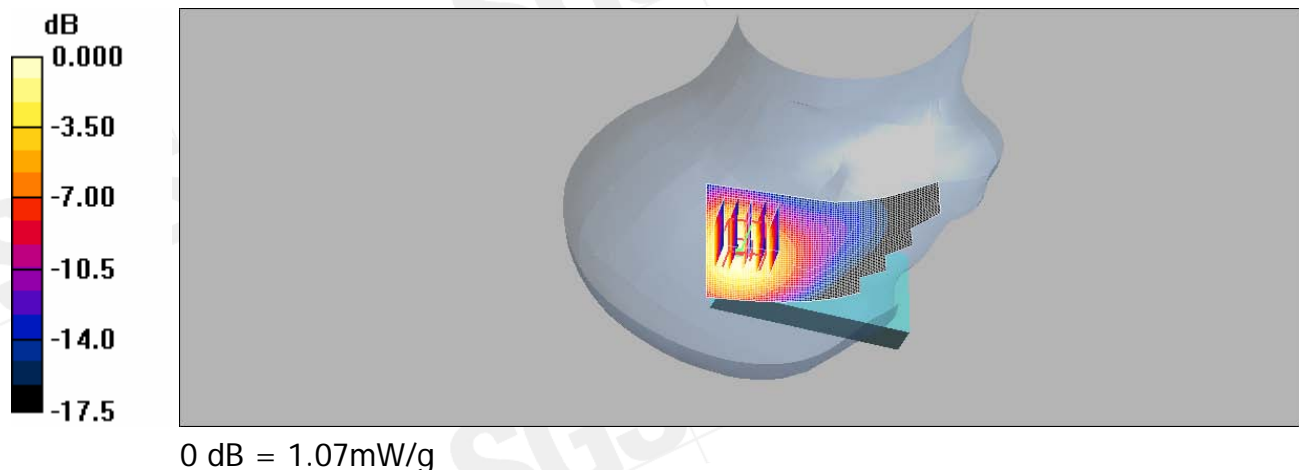
**RE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 26.6 V/m; Power Drift = -0.137 dB

Peak SAR (extrapolated) = 1.59 W/kg

**SAR(1 g) = 0.963 mW/g; SAR(10 g) = 0.552 mW/g**

Maximum value of SAR (measured) = 1.07 mW/g



Date/Time: 2008/5/28 04:48:37

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## LE Tilt\_CH1312\_slider off

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1712.4 \text{ MHz}$ ;  $\sigma = 1.37 \text{ mho/m}$ ;  $\epsilon_r = 41.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.768 mW/g

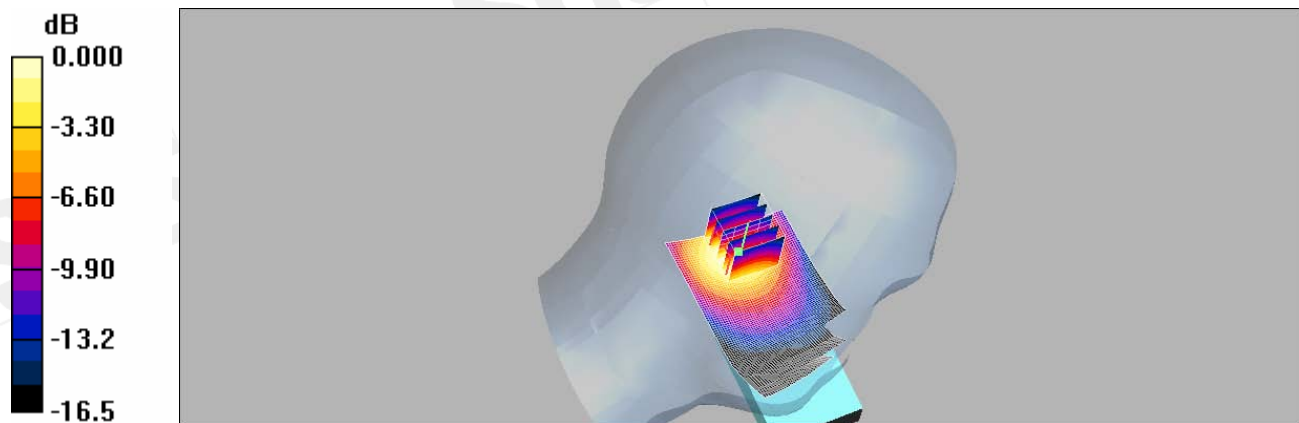
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 22.7 V/m; Power Drift = 0.164 dB

Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.698 mW/g; SAR(10 g) = 0.407 mW/g**

Maximum value of SAR (measured) = 0.757 mW/g



0 dB = 0.757mW/g

Date/Time: 2008/5/28 04:08:51

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## LE Tilt\_CH1412\_slider off

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 41.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Tilt/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.846 mW/g

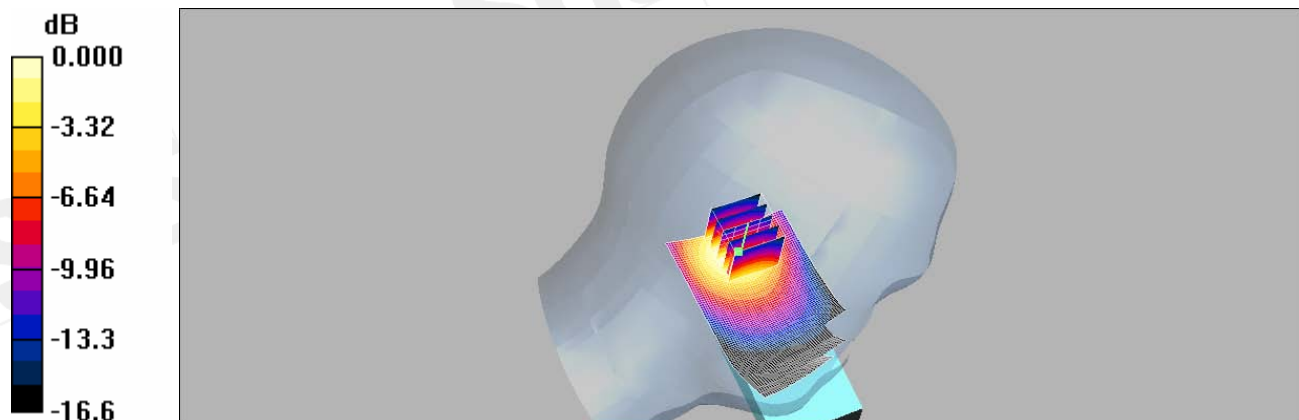
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.8 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 1.24 W/kg

**SAR(1 g) = 0.752 mW/g; SAR(10 g) = 0.439 mW/g**

Maximum value of SAR (measured) = 0.812 mW/g



0 dB = 0.812mW/g

Date/Time: 2008/5/28 03:37:27

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## LE Tilt\_CH1513\_slider off

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 1.22 mW/g

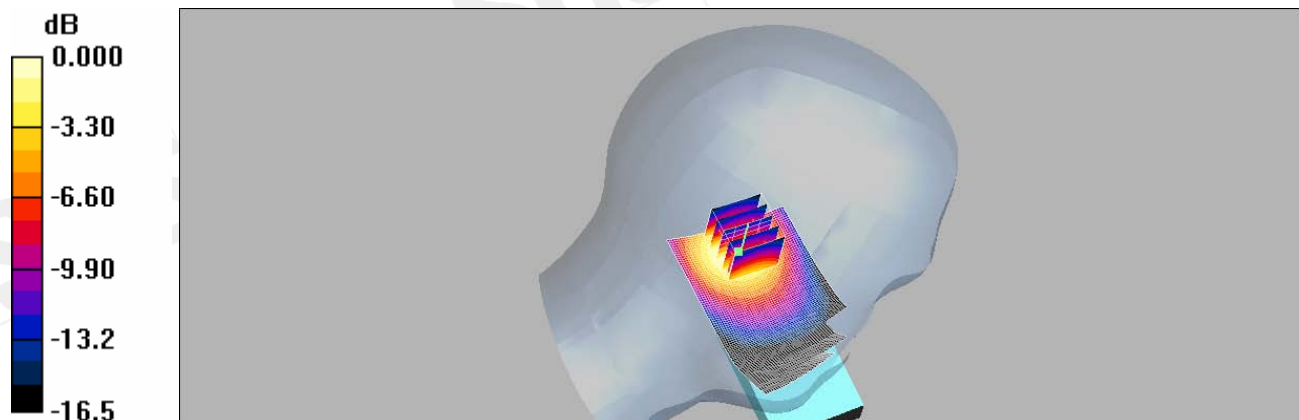
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 28.4 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.625 mW/g**

Maximum value of SAR (measured) = 1.18 mW/g



0 dB = 1.18mW/g

Date/Time: 2008/5/28 11:18:20

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## RE Cheek\_CH1312\_slider on

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1712.4 \text{ MHz}$ ;  $\sigma = 1.37 \text{ mho/m}$ ;  $\epsilon_r = 41.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**RE\_Cheek/Area Scan (71x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.721 mW/g

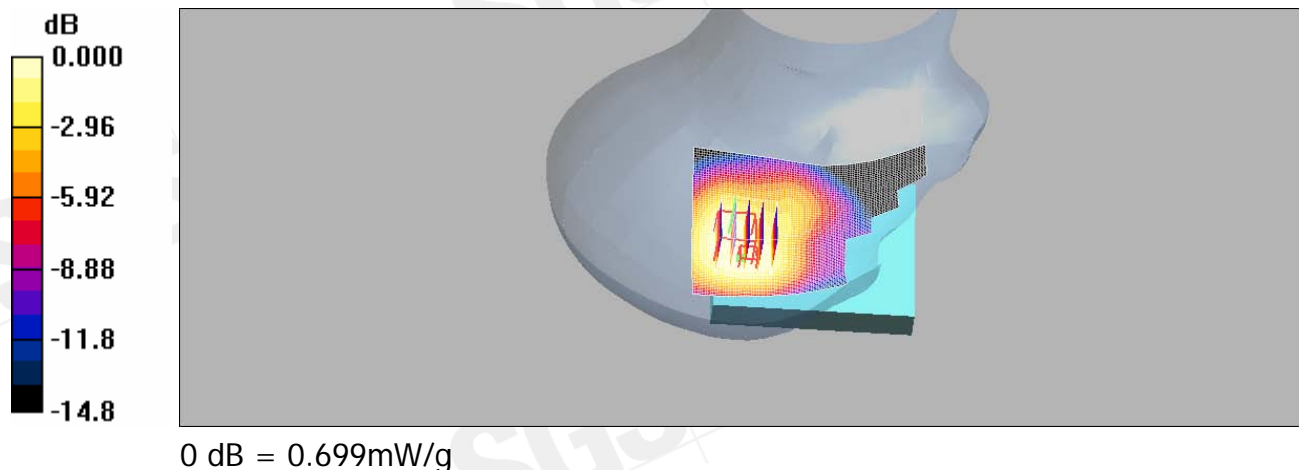
**RE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 17.4 V/m; Power Drift = 0.191 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.654 mW/g; SAR(10 g) = 0.422 mW/g**

Maximum value of SAR (measured) = 0.699 mW/g



Date/Time: 2008/5/28 11:37:14

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## RE Cheek\_CH1412\_slider on

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1732.4 \text{ MHz}$ ;  $\sigma = 1.39 \text{ mho/m}$ ;  $\epsilon_r = 41.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**RE\_Cheek/Area Scan (71x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.765 mW/g

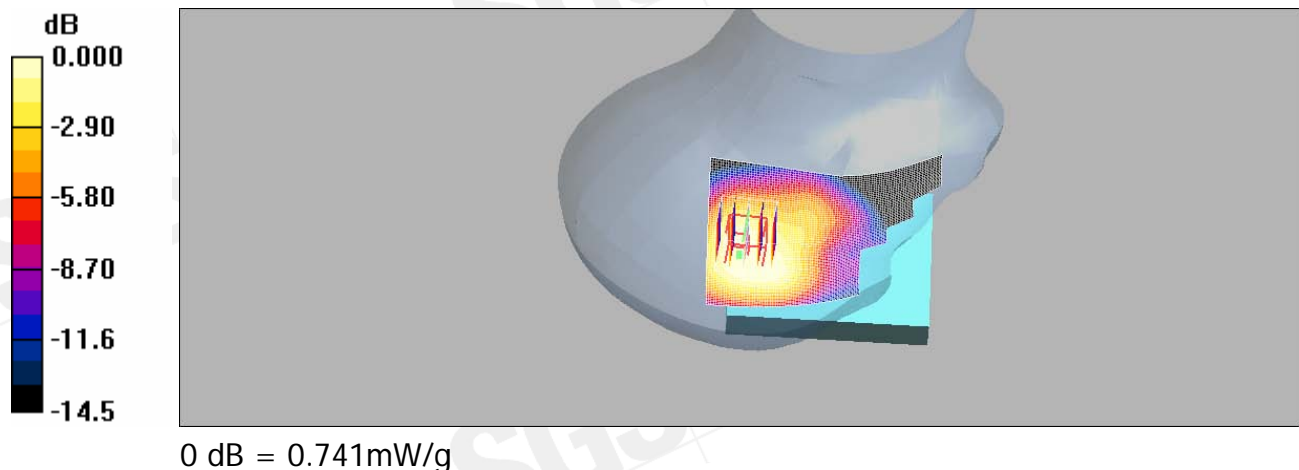
**RE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 18.2 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.695 mW/g; SAR(10 g) = 0.441 mW/g**

Maximum value of SAR (measured) = 0.741 mW/g



Date/Time: 2008/5/28 11:51:33

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## RE Cheek\_CH1513\_slider on

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**RE\_Cheek/Area Scan (71x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.846 mW/g

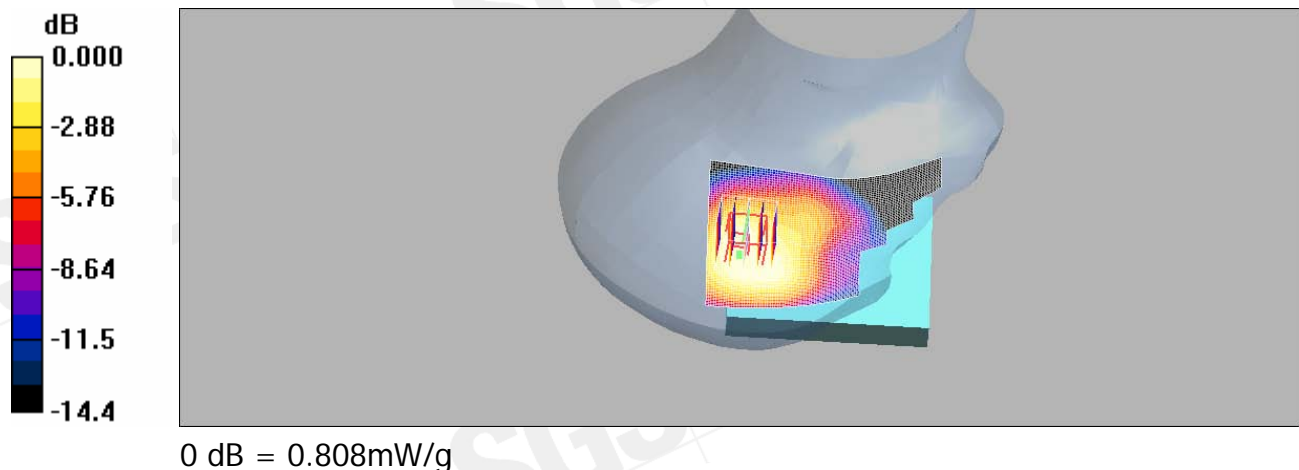
**RE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 19.3 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.763 mW/g; SAR(10 g) = 0.479 mW/g**

Maximum value of SAR (measured) = 0.808 mW/g



Date/Time: 2008/5/28 05:07:48

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## LE Cheek\_CH1312\_slider on

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1712.4 \text{ MHz}$ ;  $\sigma = 1.37 \text{ mho/m}$ ;  $\epsilon_r = 41.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Cheek/Area Scan (71x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.590 mW/g

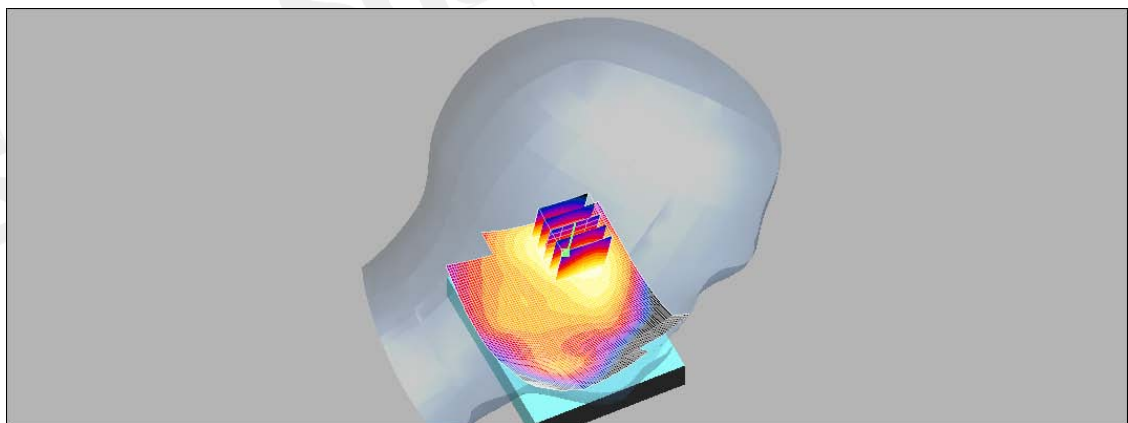
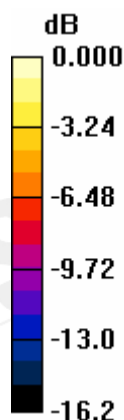
**LE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 19.1 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.820 W/kg

**SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.350 mW/g**

Maximum value of SAR (measured) = 0.591 mW/g



0 dB = 0.591mW/g

Date/Time: 2008/5/28 05:23:23

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## LE Cheek\_CH1412\_slider on

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 41.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Cheek/Area Scan (71x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.616 mW/g

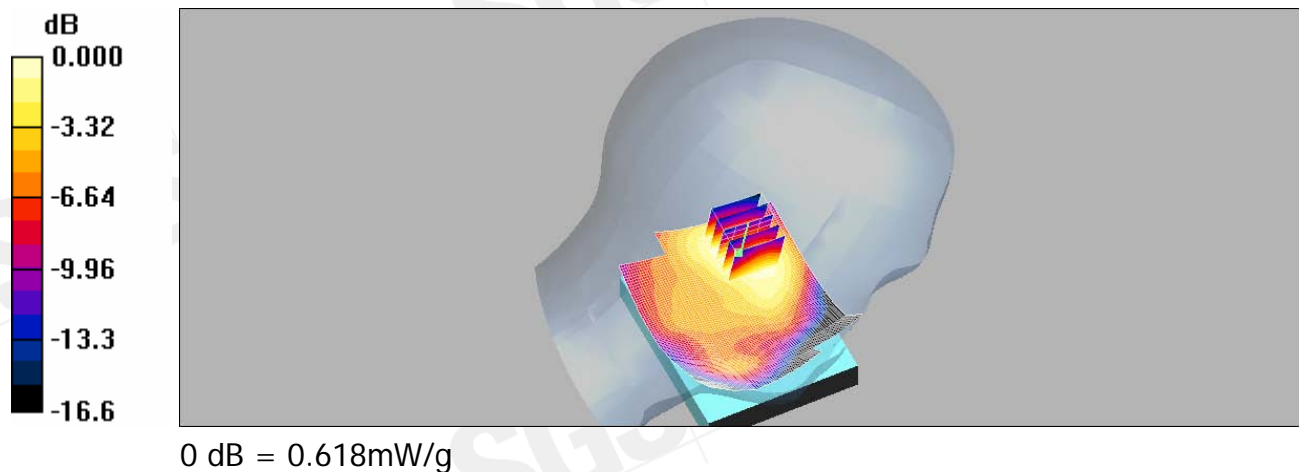
**LE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.3 V/m; Power Drift = 0.003 dB

Peak SAR (extrapolated) = 0.863 W/kg

**SAR(1 g) = 0.570 mW/g; SAR(10 g) = 0.363 mW/g**

Maximum value of SAR (measured) = 0.618 mW/g



Date/Time: 2008/5/28 05:38:38

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## LE Cheek\_CH1513\_slider on

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Cheek/Area Scan (71x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.664 mW/g

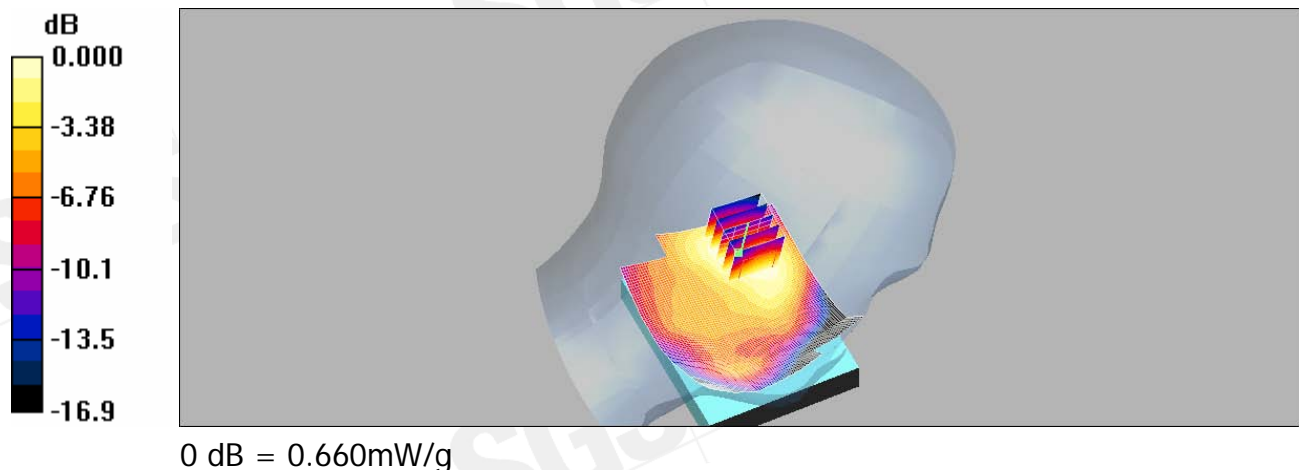
**LE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 19.9 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.933 W/kg

**SAR(1 g) = 0.613 mW/g; SAR(10 g) = 0.389 mW/g**

Maximum value of SAR (measured) = 0.660 mW/g



Date/Time: 2008/5/28 12:34:39

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## RE Tilt\_CH1312\_slider on

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1712.4$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 41.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**RE\_Tilt/Area Scan (71x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.972 mW/g

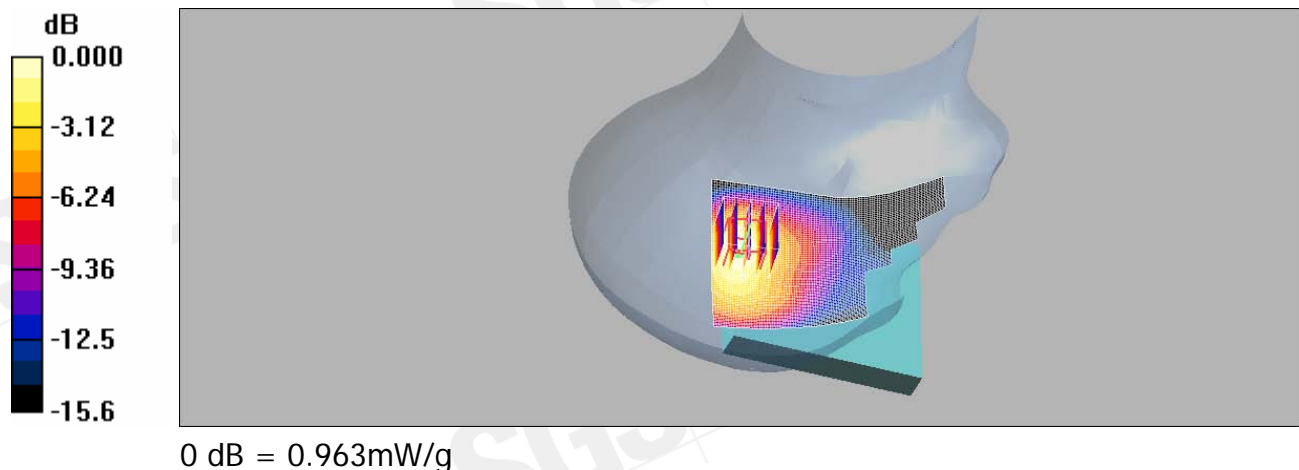
**RE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.1 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.882 mW/g; SAR(10 g) = 0.527 mW/g**

Maximum value of SAR (measured) = 0.963 mW/g



Date/Time: 2008/5/28 12:20:50

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## RE Tilt\_CH1412\_slider on

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1732.4 \text{ MHz}$ ;  $\sigma = 1.39 \text{ mho/m}$ ;  $\epsilon_r = 41.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**RE\_Tilt/Area Scan (71x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 1.02 mW/g

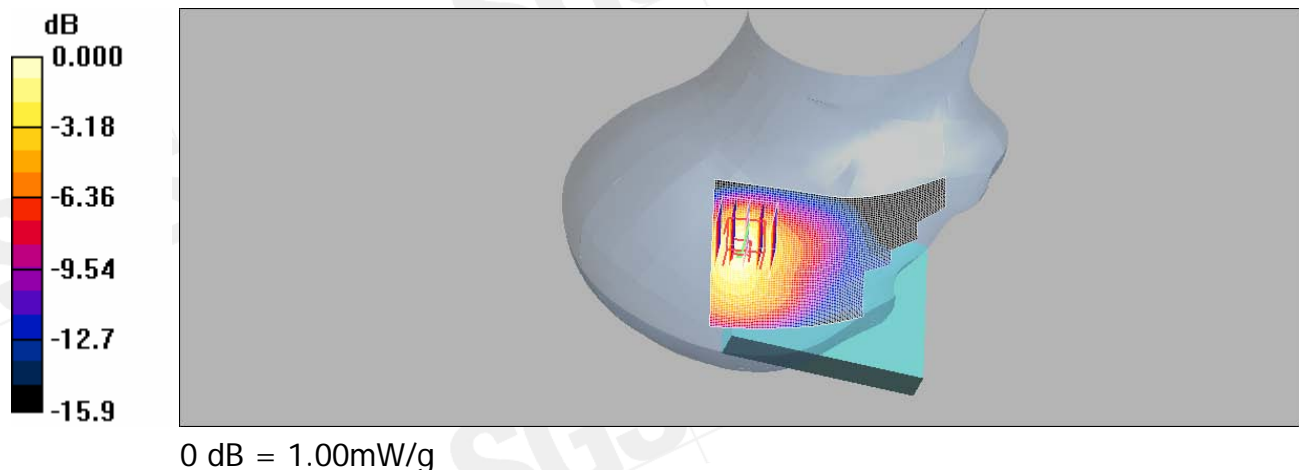
**RE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 25.4 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 1.50 W/kg

**SAR(1 g) = 0.922 mW/g; SAR(10 g) = 0.546 mW/g**

Maximum value of SAR (measured) = 1.00 mW/g



Date/Time: 2008/5/28 12:06:18

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## RE Tilt\_CH1513\_slider on

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**RE\_Tilt/Area Scan (71x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 1.15 mW/g

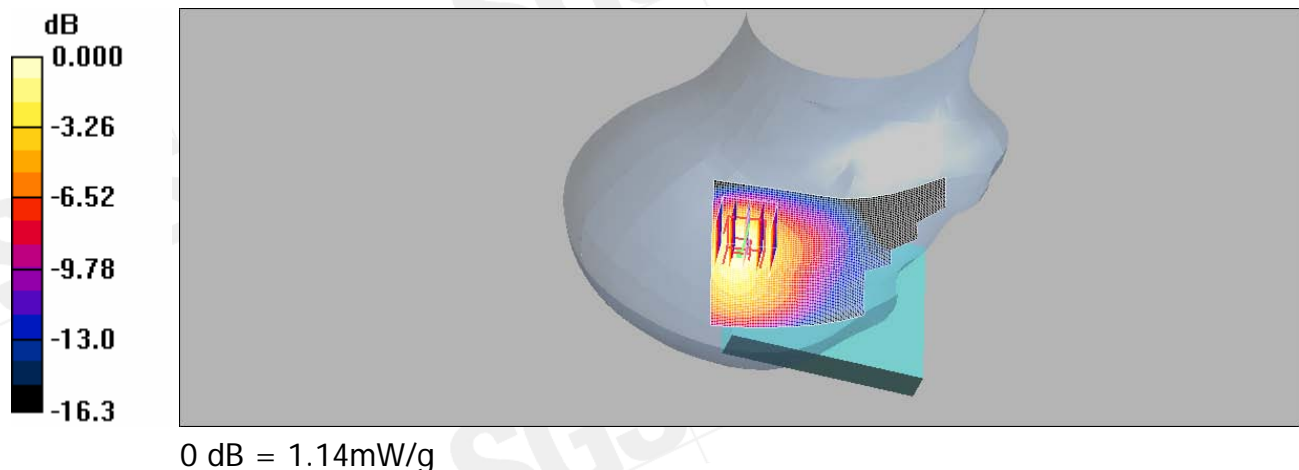
**RE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 27.1 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 1.71 W/kg

**SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.614 mW/g**

Maximum value of SAR (measured) = 1.14 mW/g



Date/Time: 2008/5/28 14:50:20

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## LE Tilt\_CH1312\_slider on

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1712.4 \text{ MHz}$ ;  $\sigma = 1.37 \text{ mho/m}$ ;  $\epsilon_r = 41.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Tilt/Area Scan (71x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.742 mW/g

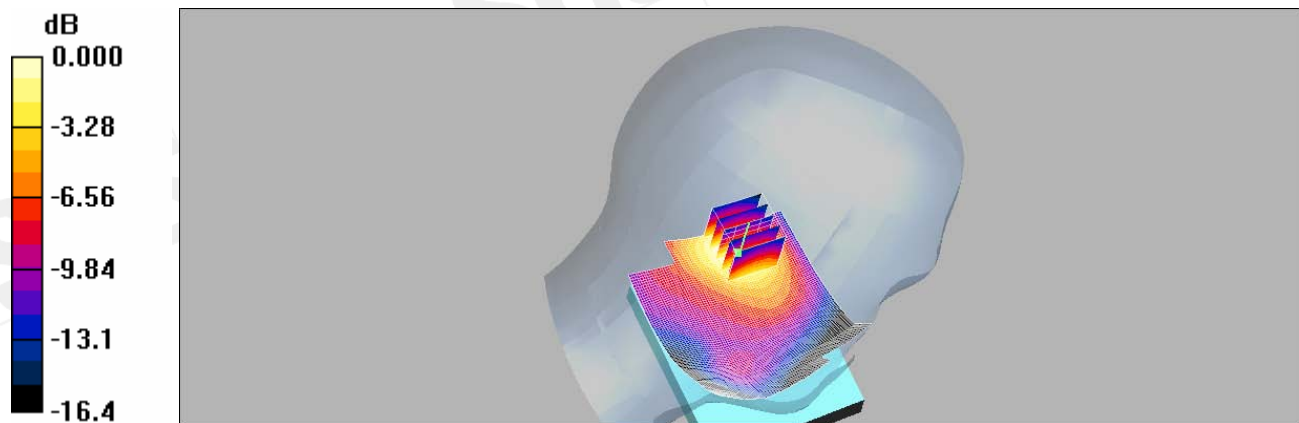
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 22.4 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.656 mW/g; SAR(10 g) = 0.395 mW/g**

Maximum value of SAR (measured) = 0.716 mW/g



0 dB = 0.716mW/g

Date/Time: 2008/5/28 13:20:30

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## LE Tilt\_CH1412\_slider on

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used (interpolated):  $f = 1732.4 \text{ MHz}$ ;  $\sigma = 1.39 \text{ mho/m}$ ;  $\epsilon_r = 41.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Tilt/Area Scan (71x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.754 mW/g

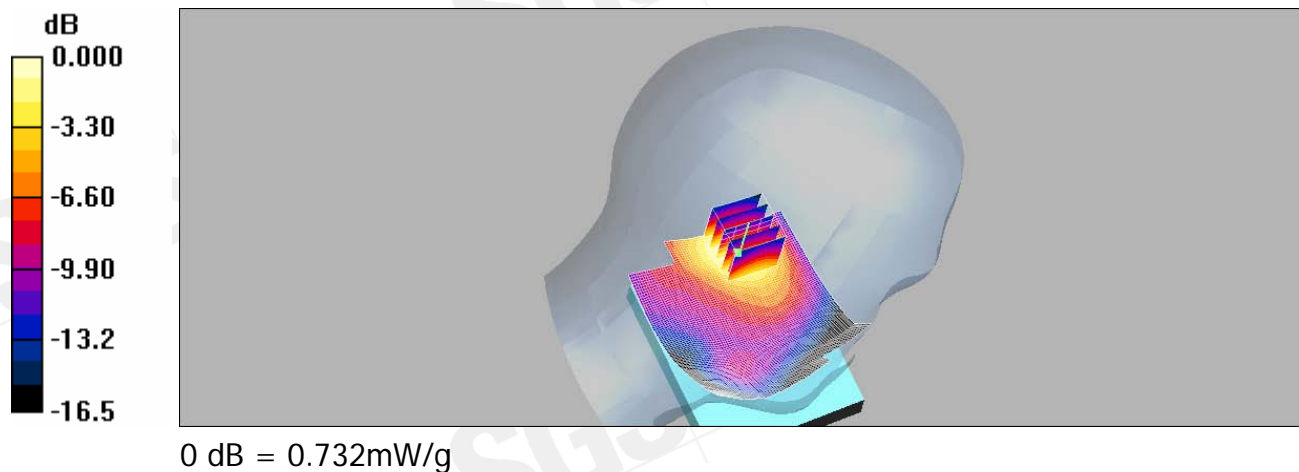
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 22.4 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.672 mW/g; SAR(10 g) = 0.402 mW/g**

Maximum value of SAR (measured) = 0.732 mW/g



Date/Time: 2008/5/28 13:36:43

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## LE Tilt\_CH1513\_slider on

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Tilt/Area Scan (71x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.866 mW/g

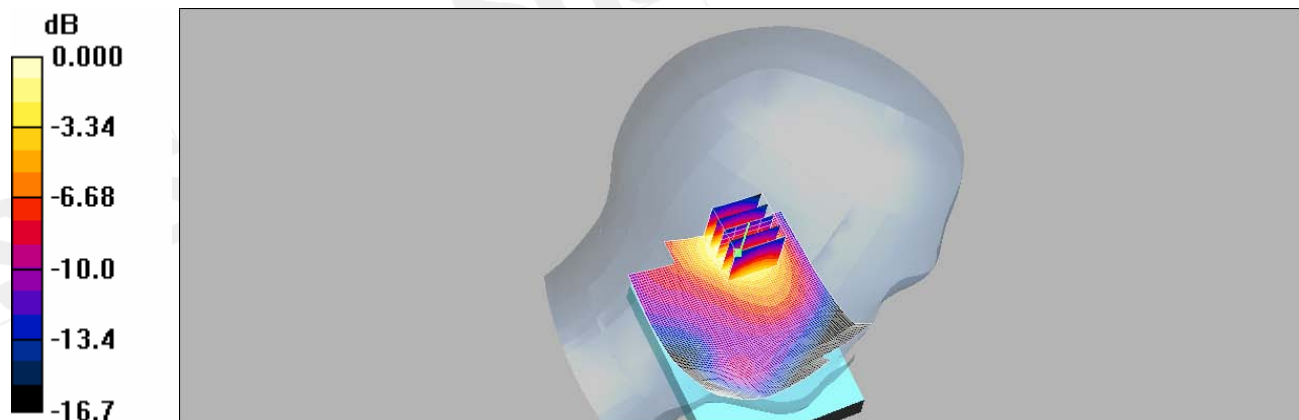
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 23.8 V/m; Power Drift = 0.096 dB

Peak SAR (extrapolated) = 1.26 W/kg

**SAR(1 g) = 0.776 mW/g; SAR(10 g) = 0.461 mW/g**

Maximum value of SAR (measured) = 0.848 mW/g



0 dB = 0.848mW/g

Date/Time: 2008/5/28 19:35:55

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## LE Tilt\_CH1513\_slider off\_ repdated with Memory Card

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
 Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Tilt/Area Scan (51x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 1.07 mW/g

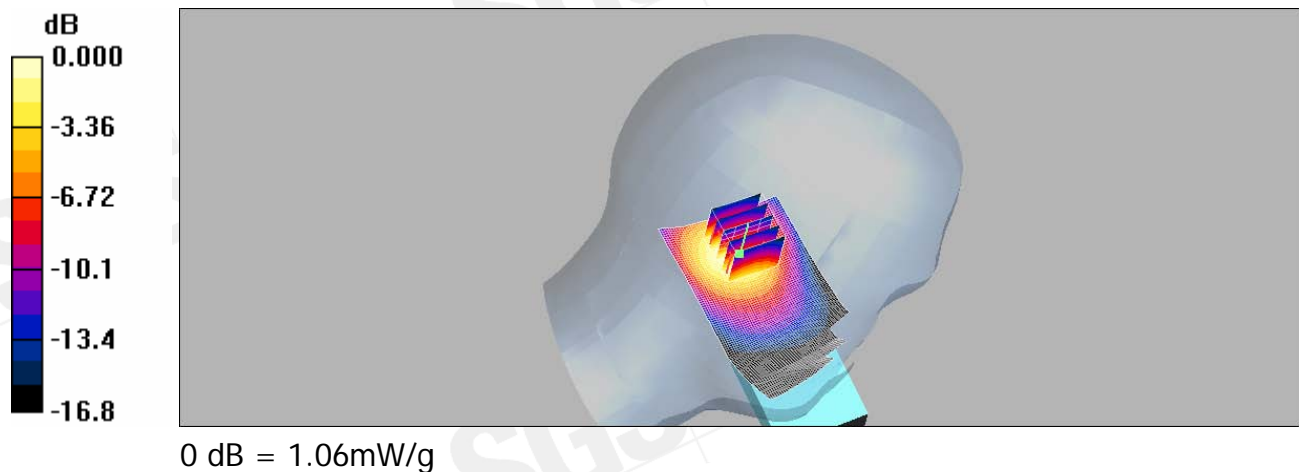
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 25.5 V/m; Power Drift = 0.509 dB

Peak SAR (extrapolated) = 1.62 W/kg

**SAR(1 g) = 0.982 mW/g; SAR(10 g) = 0.573 mW/g**

Maximum value of SAR (measured) = 1.06 mW/g



Date/Time: 2008/5/28 19:54:21

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## LE Tilt\_CH1513\_slider off\_ repdated with Bluetooth active

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
 Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Tilt/Area Scan (51x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 1.10 mW/g

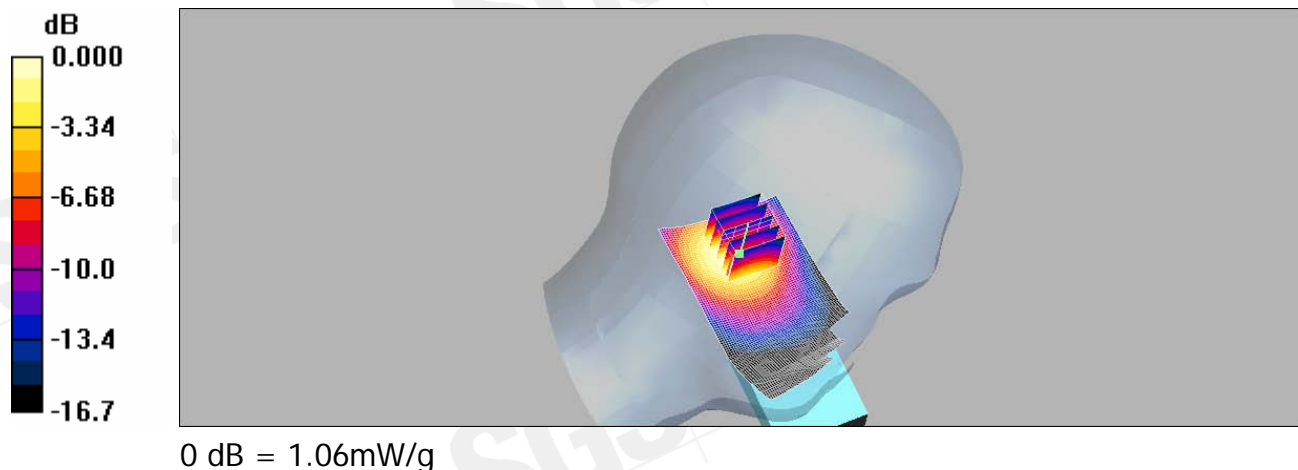
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 25.9 V/m; Power Drift = 0.152 dB

Peak SAR (extrapolated) = 1.61 W/kg

**SAR(1 g) = 0.976 mW/g; SAR(10 g) = 0.571 mW/g**

Maximum value of SAR (measured) = 1.06 mW/g



Date/Time: 2008/5/28 20:45:42

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## LE Tilt\_CH1513\_slider off\_ repdated with WLAN802.11 b active

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
 Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Tilt/Area Scan (51x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 1.26 mW/g

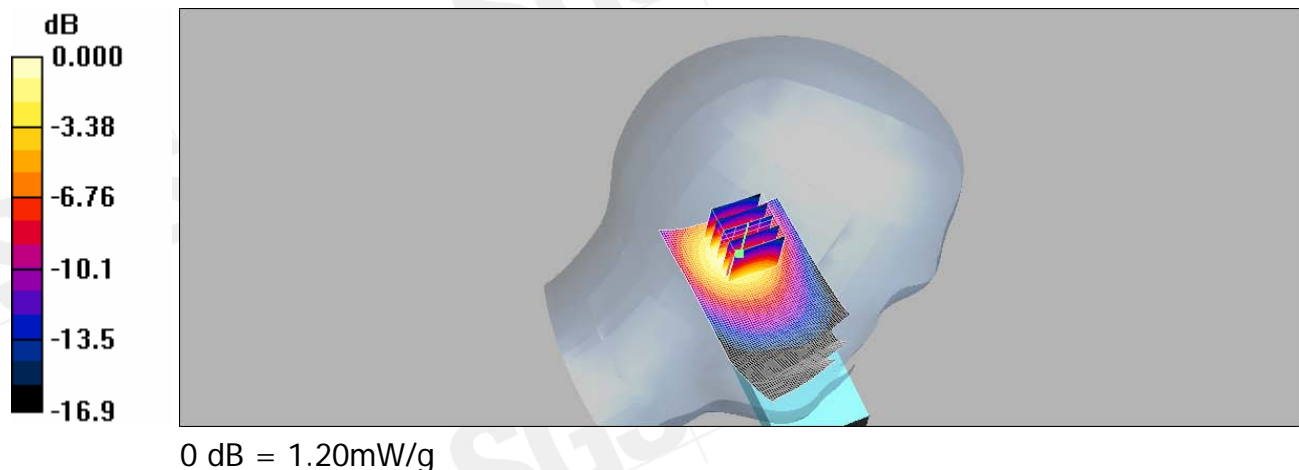
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 27.9 V/m; Power Drift = 0.102 dB

Peak SAR (extrapolated) = 1.82 W/kg

**SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.644 mW/g**

Maximum value of SAR (measured) = 1.20 mW/g



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## LE Tilt\_CH1513\_slider off\_ repdated with WLAN802.11 g active

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
 Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Tilt/Area Scan (51x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 1.25 mW/g

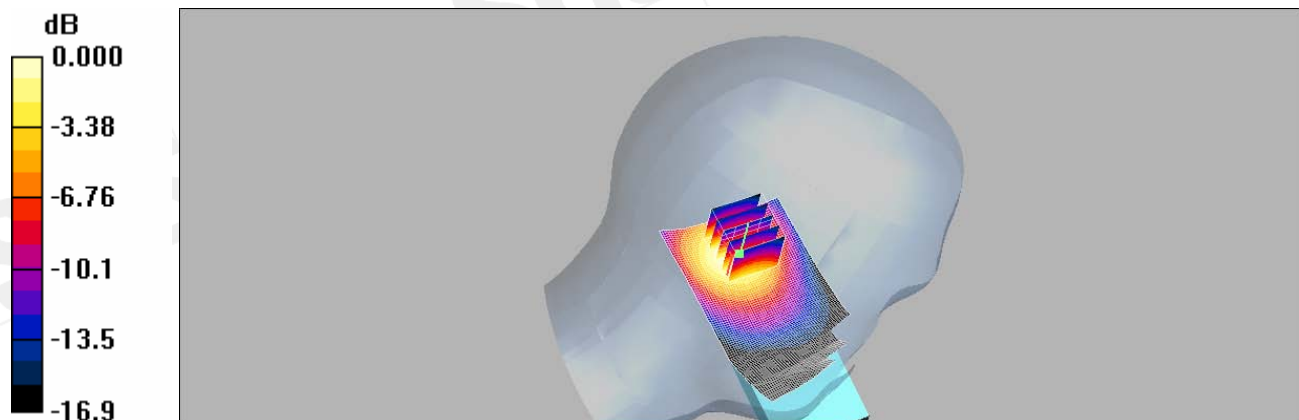
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 27.7 V/m; Power Drift = 0.133 dB

Peak SAR (extrapolated) = 1.80 W/kg

**SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.639 mW/g**

Maximum value of SAR (measured) = 1.19 mW/g



0 dB = 1.19mW/g

Date/Time: 2008/5/28 21:19:28

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## LE Tilt\_CH1513\_ repdated with WLAN802.11 b and Bluetooth active

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
 Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**LE\_Tilt/Area Scan (51x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 1.18 mW/g

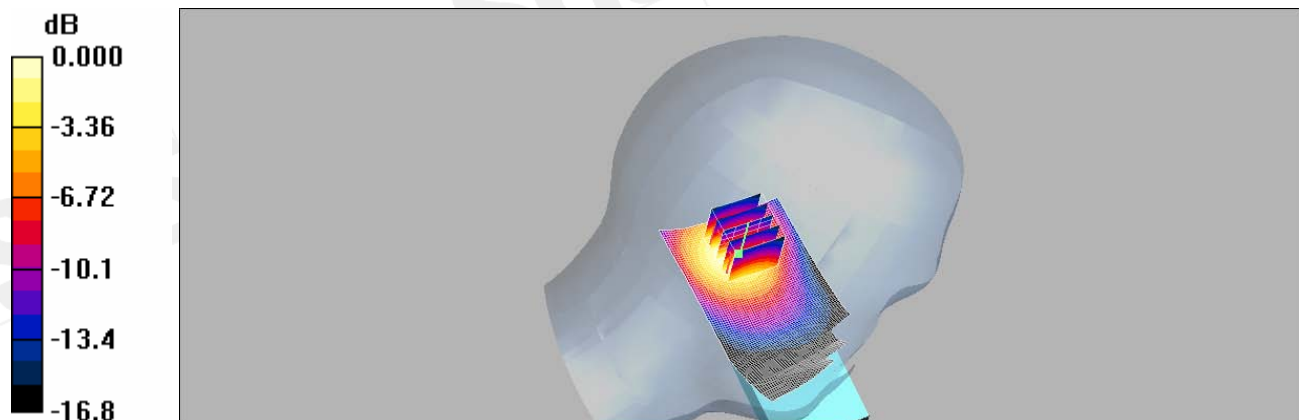
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 26.2 V/m; Power Drift = 0.116 dB

Peak SAR (extrapolated) = 1.73 W/kg

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.612 mW/g**

Maximum value of SAR (measured) = 1.13 mW/g



Date/Time: 2008/7/25 01:55:53

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## LE Tilt\_CH1513\_slider off\_ repeated with TWS Battery

DUT: DREA100; IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
 Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.42 \text{ mho/m}$ ;  $\epsilon_r = 41.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**LE\_Tilt/Area Scan (51x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 1.02 mW/g

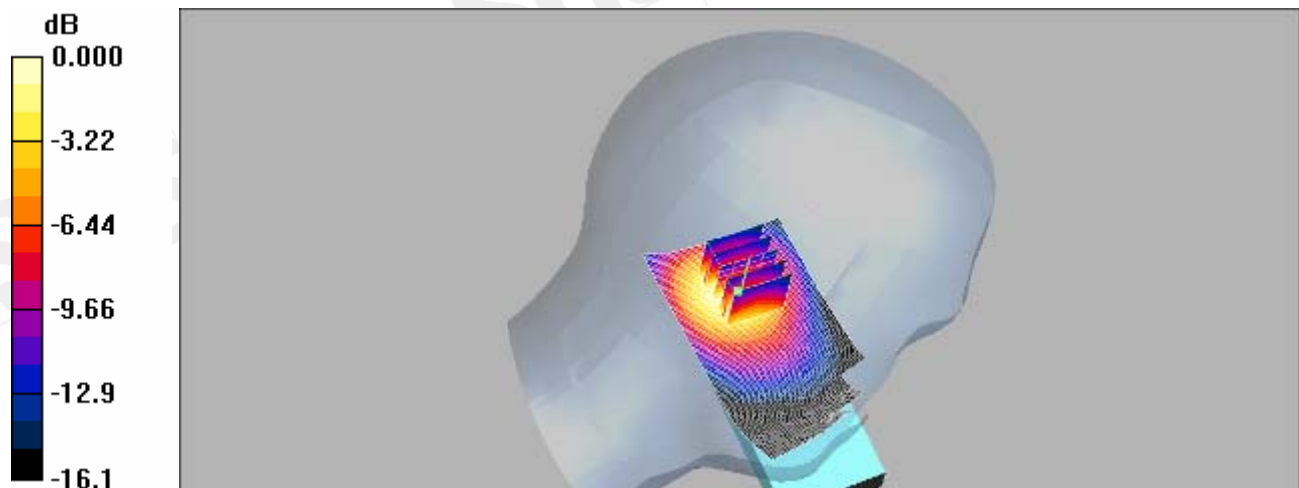
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 25.0 V/m; Power Drift = 0.121 dB

Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 0.950 mW/g; SAR(10 g) = 0.562 mW/g**

Maximum value of SAR (measured) = 1.02 mW/g



0 dB = 1.02mW/g

Date/Time: 2008/5/29 10:18:52

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## BODY\_CH1312

DUT: DREA100;IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz;Duty Cycle: 1:1  
Medium: M1800 & 1900 Medium parameters used (interpolated):  $f = 1712.4 \text{ MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 52.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.04, 9.04, 9.04); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.395 mW/g

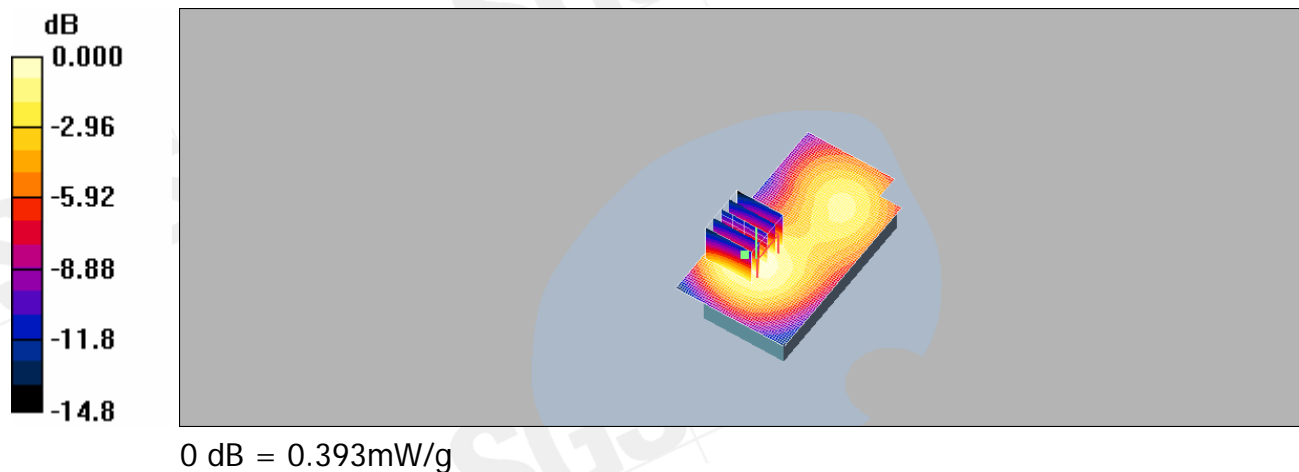
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 10.9 V/m; Power Drift = 0.176 dB

Peak SAR (extrapolated) = 0.579 W/kg

**SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.227 mW/g**

Maximum value of SAR (measured) = 0.393 mW/g



Date/Time: 2008/5/29 10:31:27

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## BODY\_CH1412

DUT: DREA100;IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz;Duty Cycle: 1:1  
Medium: M1800 & 1900 Medium parameters used (interpolated):  $f = 1732.4 \text{ MHz}$ ;  $\sigma = 1.42 \text{ mho/m}$ ;  $\epsilon_r = 52.3$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.04, 9.04, 9.04); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.454 mW/g

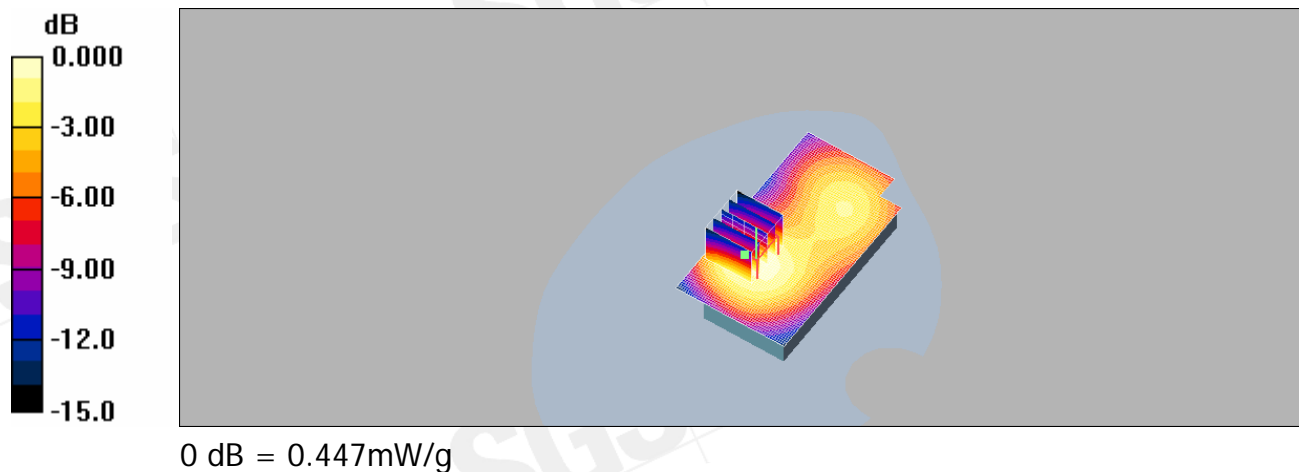
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 11.8 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 0.663 W/kg

**SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.257 mW/g**

Maximum value of SAR (measured) = 0.447 mW/g



Date/Time: 2008/5/29 10:43:15

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## BODY\_CH1513

DUT: DREA100;IMEI:358279010024279

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz;Duty Cycle: 1:1  
Medium: M1800 & 1900 Medium parameters used (interpolated):  $f = 1752.6 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 52.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.04, 9.04, 9.04); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.554 mW/g

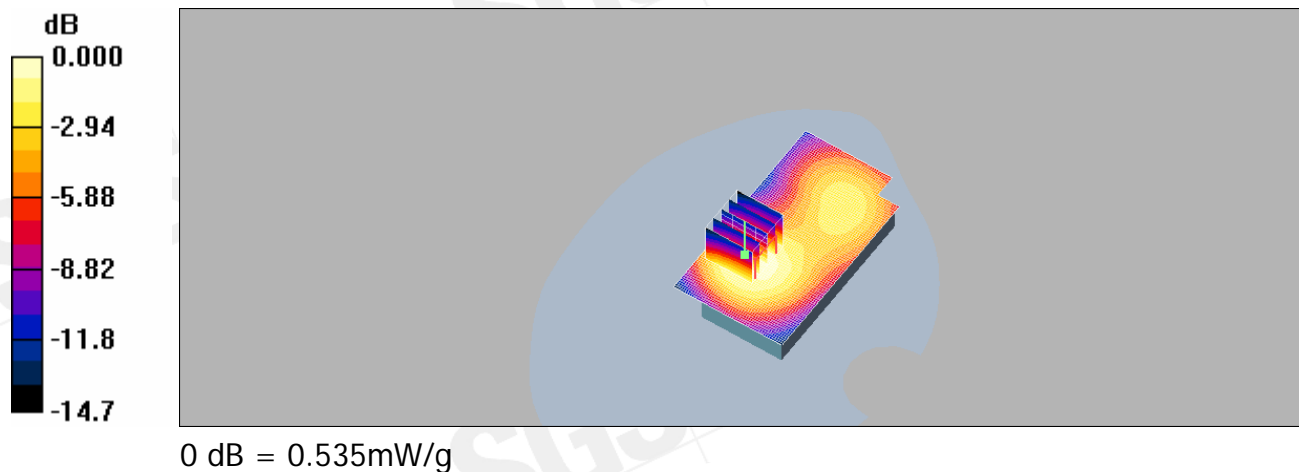
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 12.9 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 0.790 W/kg

**SAR(1 g) = 0.497 mW/g; SAR(10 g) = 0.309 mW/g**

Maximum value of SAR (measured) = 0.535 mW/g



Date/Time: 2008/6/2 03:19:17

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## BODY\_WLAN802.11 b\_CH1

DUT: DREA100;IMEI:358279010024279

Communication System: Wireless LAN; Frequency: 2412 MHz;Duty Cycle: 1:1  
Medium: Muscle 2450 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 54.5$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x111x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.097 mW/g

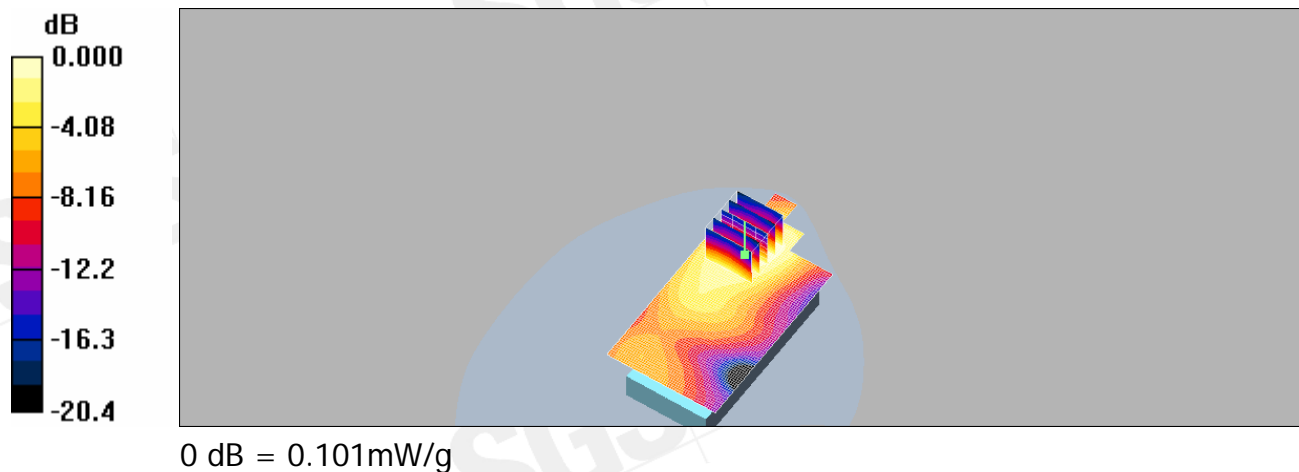
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm,  
dz=5mm

Reference Value = 3.49 V/m; Power Drift = 0.087 dB

Peak SAR (extrapolated) = 0.169 W/kg

**SAR(1 g) = 0.092 mW/g; SAR(10 g) = 0.050 mW/g**

Maximum value of SAR (measured) = 0.101 mW/g



Date/Time: 2008/6/2 03:07:03

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## BODY\_WLAN802.11 b\_CH6

DUT: DREA100;IMEI:358279010024279

Communication System: Wireless LAN; Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium: Muscle 2450 Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 54.4$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.115 mW/g

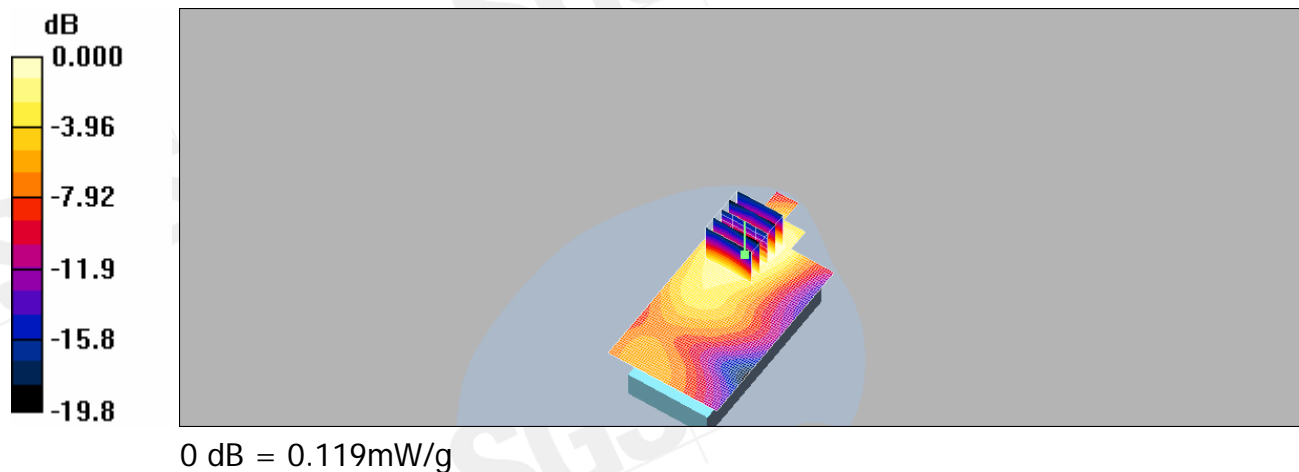
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 3.82 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.201 W/kg

**SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.058 mW/g**

Maximum value of SAR (measured) = 0.119 mW/g



Date/Time: 2008/6/2 02:51:11

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## BODY\_WLAN802.11 b\_CH11

DUT: DREA100;IMEI:358279010024279

Communication System: Wireless LAN; Frequency: 2462 MHz;Duty Cycle: 1:1  
Medium: Muscle 2450 Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.99 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.150 mW/g

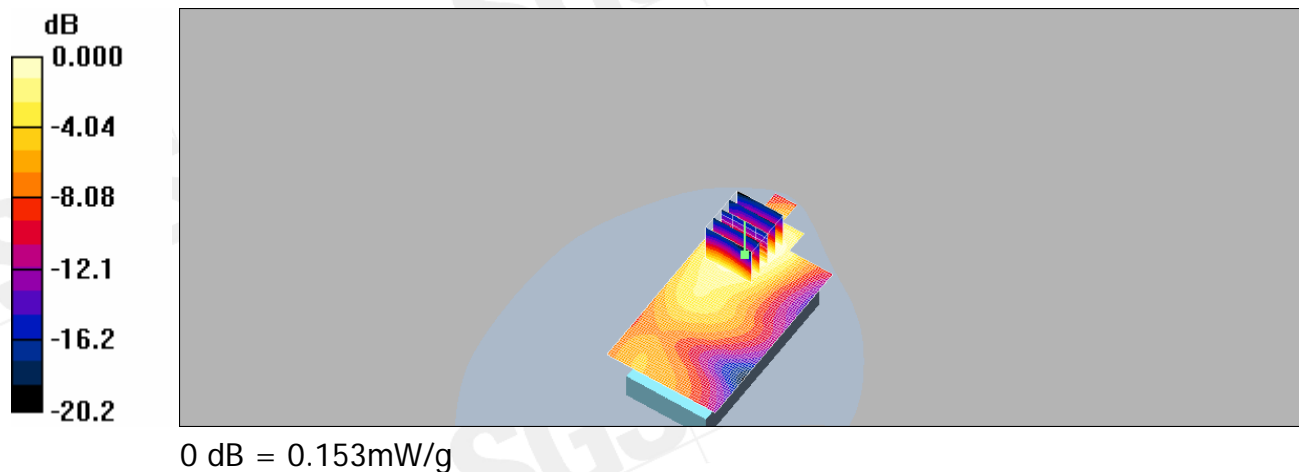
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 4.41 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.261 W/kg

**SAR(1 g) = 0.140 mW/g; SAR(10 g) = 0.076 mW/g**

Maximum value of SAR (measured) = 0.153 mW/g



Date/Time: 2008/6/2 11:06:24

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## BODY\_WLAN802.11 b\_CH11\_repeated for EUT back to phantom

DUT: DREA100;IMEI:358279010024279

Communication System: Wireless LAN; Frequency: 2462 MHz;Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.99$  mho/m;  $\epsilon_r = 54.2$ ;

$\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x111x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.077 mW/g

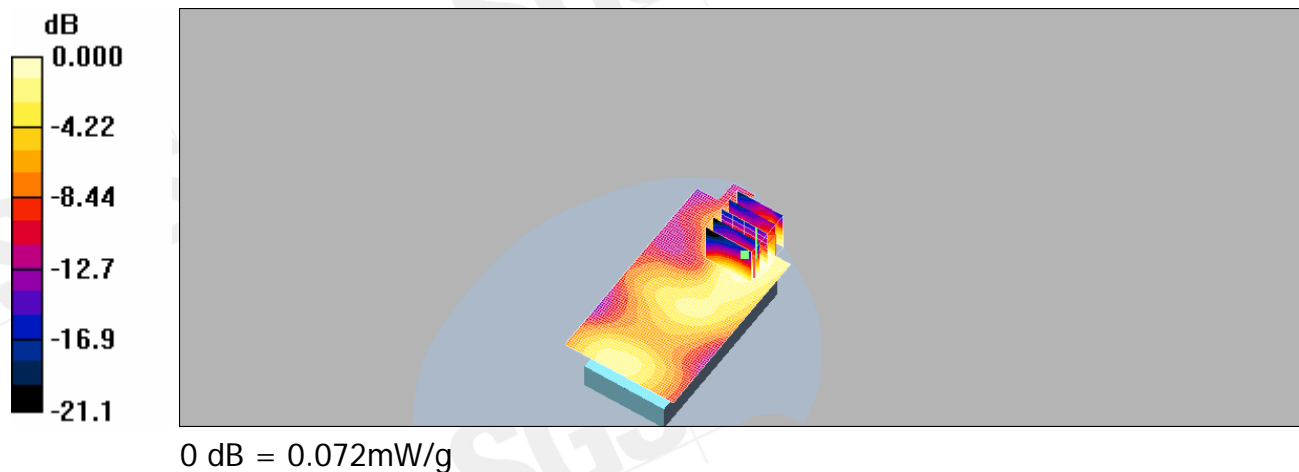
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.71 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 0.128 W/kg

**SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.038 mW/g**

Maximum value of SAR (measured) = 0.072 mW/g



Date/Time: 2008/6/2 13:33:32

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## BODY\_WLAN802.11 b\_CH11\_repeated with Memory Card

DUT: DREA100;IMEI:358279010024279

Communication System: Wireless LAN; Frequency: 2462 MHz;Duty Cycle: 1:1  
 Medium: Muscle 2450 Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.99 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.151 mW/g

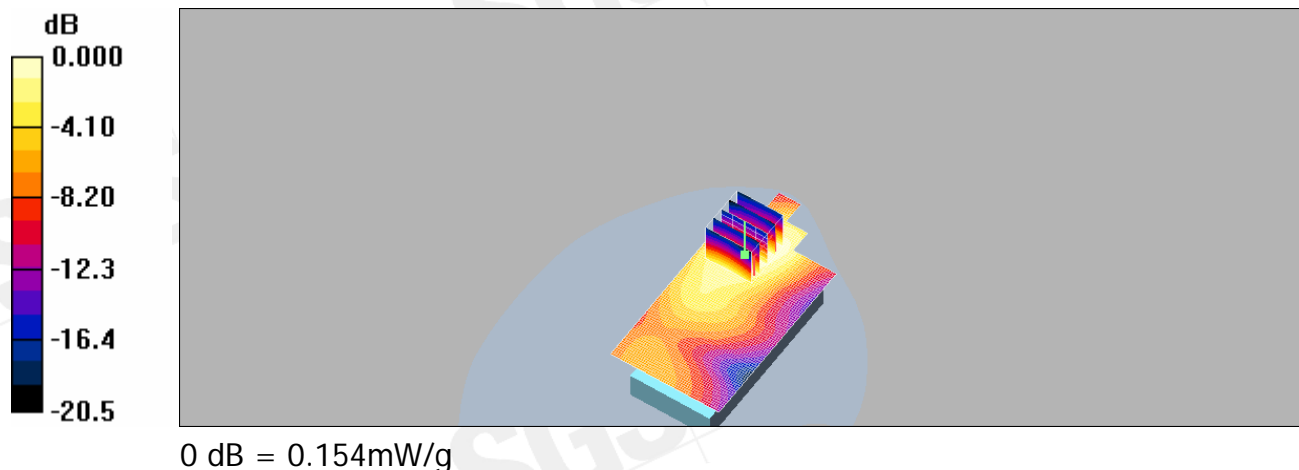
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 4.26 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 0.259 W/kg

**SAR(1 g) = 0.140 mW/g; SAR(10 g) = 0.075 mW/g**

Maximum value of SAR (measured) = 0.154 mW/g



Date/Time: 2008/6/7 12:19:42

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## BODY\_WLAN802.11 b\_CH11\_repeated with Bluetooth active

DUT: DREA100;IMEI:358279010024279Type: GSM;

Communication System: Wireless LAN; Frequency: 2462 MHz;Duty Cycle: 1:1  
 Medium: Muscle 2450 Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.99 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.130 mW/g

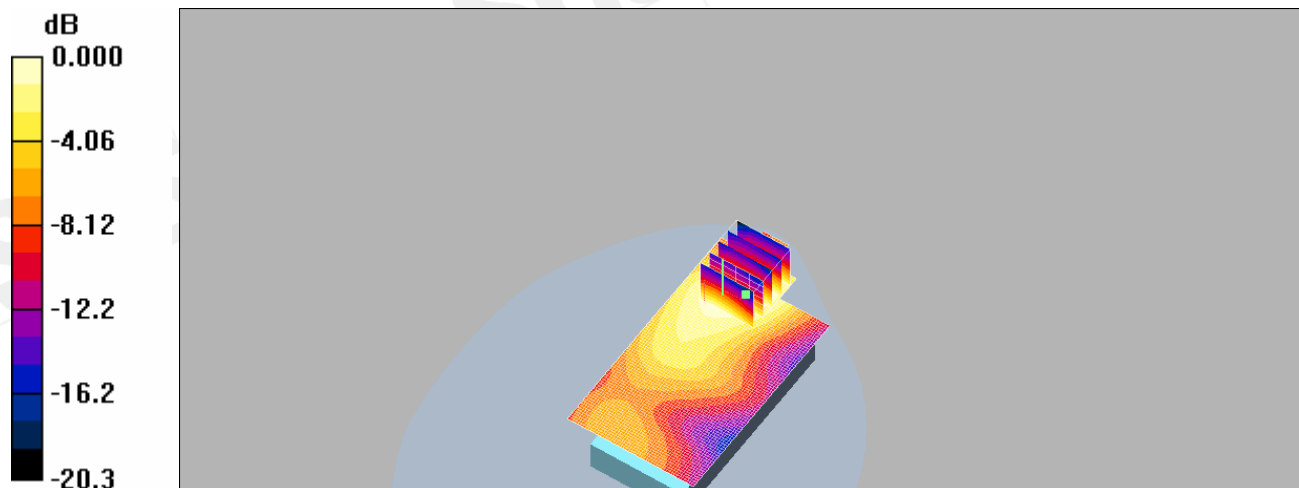
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 3.99 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.205 W/kg

**SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.067 mW/g**

Maximum value of SAR (measured) = 0.128 mW/g



0 dB = 0.128mW/g

Date/Time: 2008/6/2 03:48:11

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## BODY\_WLAN802.11 g\_CH1

DUT: DREA100;IMEI:358279010024279

Communication System: Wireless LAN; Frequency: 2412 MHz;Duty Cycle: 1:1  
Medium: Muscle 2450 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 54.5$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x111x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.008 mW/g

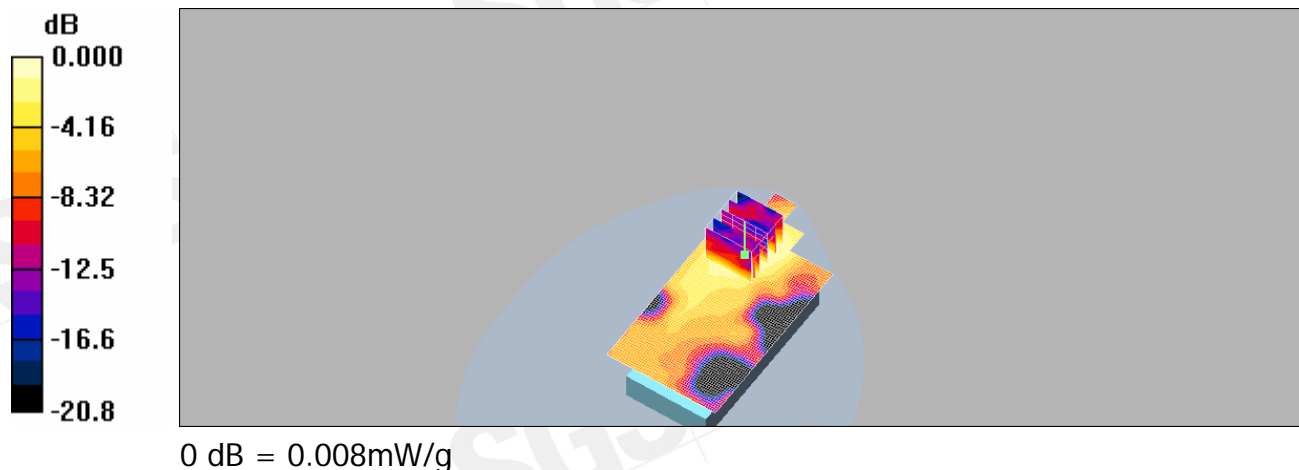
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm,  
dz=5mm

Reference Value = 0.781 V/m; Power Drift = 0.166 dB

Peak SAR (extrapolated) = 0.009 W/kg

**SAR(1 g) = 0.00637 mW/g; SAR(10 g) = 0.00298 mW/g**

Maximum value of SAR (measured) = 0.008 mW/g



Date/Time: 2008/6/2 04:32:26

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## BODY\_WLAN802.11 g\_CH6

DUT: DREA100;IMEI:358279010024279

Communication System: Wireless LAN; Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium: Muscle 2450 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 54.4$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x111x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.009 mW/g

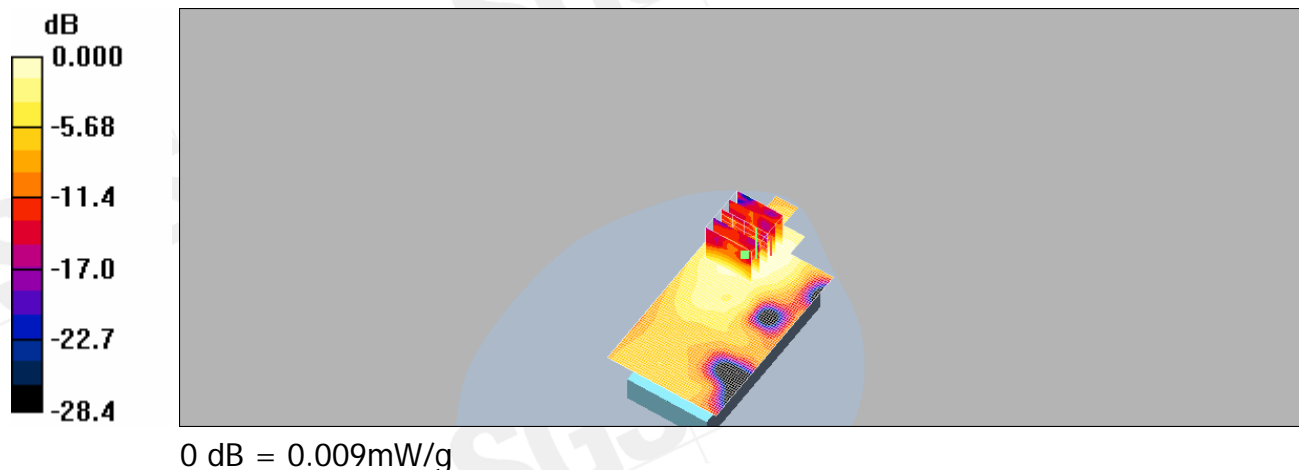
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm,  
dz=5mm

Reference Value = 1.12 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.015 W/kg

**SAR(1 g) = 0.00824 mW/g; SAR(10 g) = 0.00412 mW/g**

Maximum value of SAR (measured) = 0.009 mW/g



Date/Time: 2008/6/2 04:17:11

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## BODY\_WLAN802.11 g\_CH11

DUT: DREA100;IMEI:358279010024279

Communication System: Wireless LAN; Frequency: 2462 MHz;Duty Cycle: 1:1  
Medium: Muscle 2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.99$  mho/m;  $\epsilon_r = 54.2$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**BODY/Area Scan (51x111x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.012 mW/g

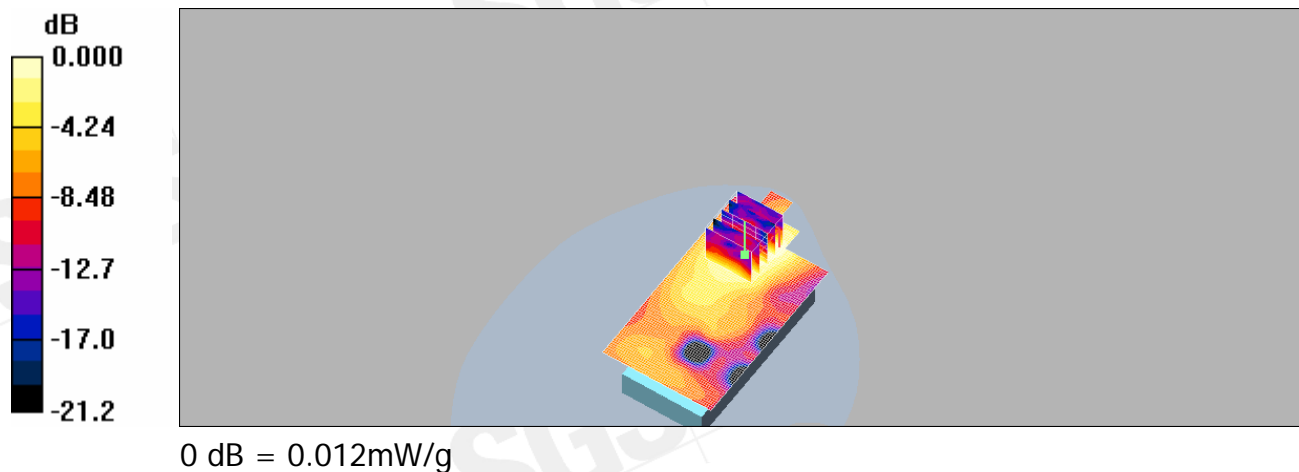
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm,  
dz=5mm

Reference Value = 1.10 V/m; Power Drift = 0.165 dB

Peak SAR (extrapolated) = 0.017 W/kg

**SAR(1 g) = 0.010 mW/g; SAR(10 g) = 0.00511 mW/g**

Maximum value of SAR (measured) = 0.012 mW/g



Date/Time: 2008/7/25 06:54:06

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## RE Cheek\_CH251\_slider off

DUT: DREA100; IMEI:358279010028510

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

Medium: Head 850 MHz Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.914$  mho/m;  $\epsilon_r = 42.2$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; vConvF(11.48, 11.48, 11.48); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**RE\_Cheek/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.274 mW/g

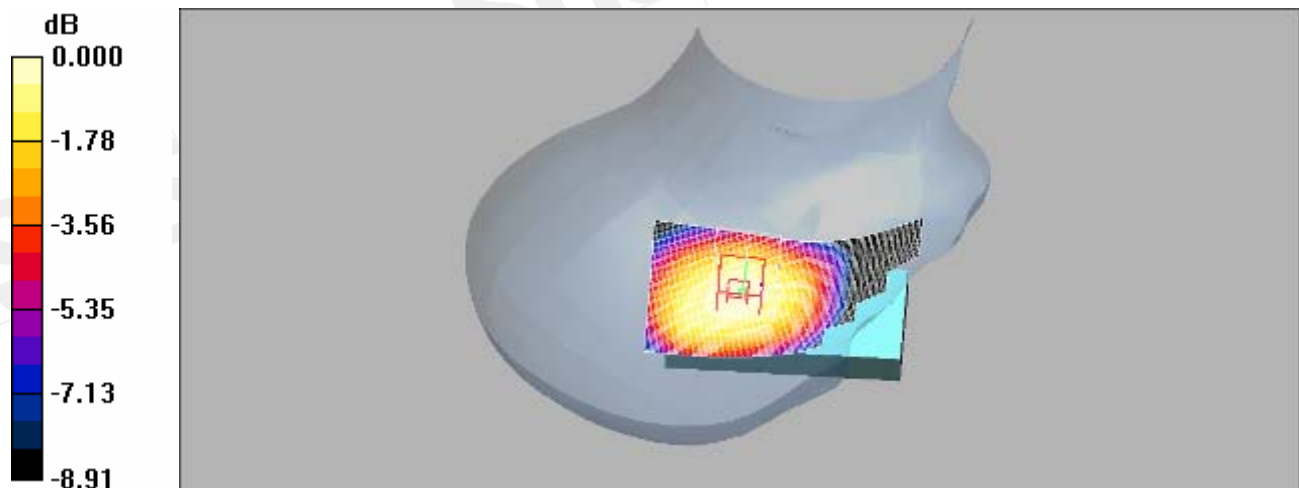
**RE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm,  
dz=5mm

Reference Value = 14.2 V/m; Power Drift = -0.105 dB

Peak SAR (extrapolated) = 0.326 W/kg

**SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.192 mW/g**

Maximum value of SAR (measured) = 0.272 mW/g



0 dB = 0.272mW/g

Date/Time: 2008/7/25 04:19:17

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## BODY\_CH251\_repeated with Memory card

DUT: DREA100; IMEI:358279010028510

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: Muscle 900 MHz Medium parameters used (interpolated):  $f = 848.8 \text{ MHz}$ ;  $\sigma = 0.984 \text{ mho/m}$ ;  $\epsilon_r = 56.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**BODY/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 1.12 mW/g

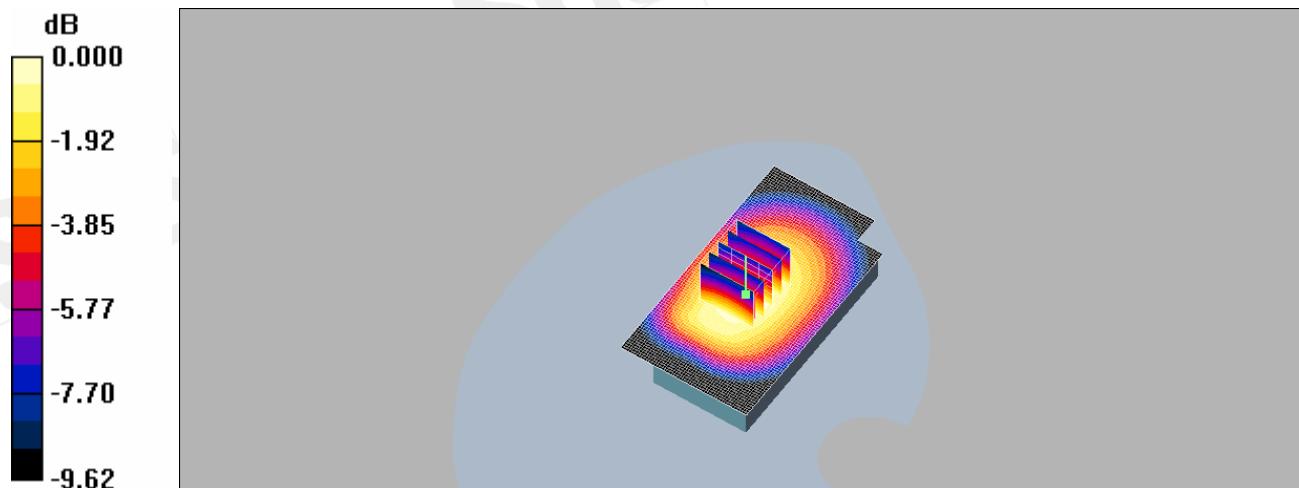
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 15.0 V/m; Power Drift = 0.114 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.774 mW/g**

Maximum value of SAR (measured) = 1.13 mW/g



0 dB = 1.13mW/g

Date/Time: 2008/7/25 08:42:53

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## LE Tilt\_CH661\_slider off

DUT: DREA100; IMEI:358279010028510

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 41$ ;  
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**LE\_Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.637 mW/g

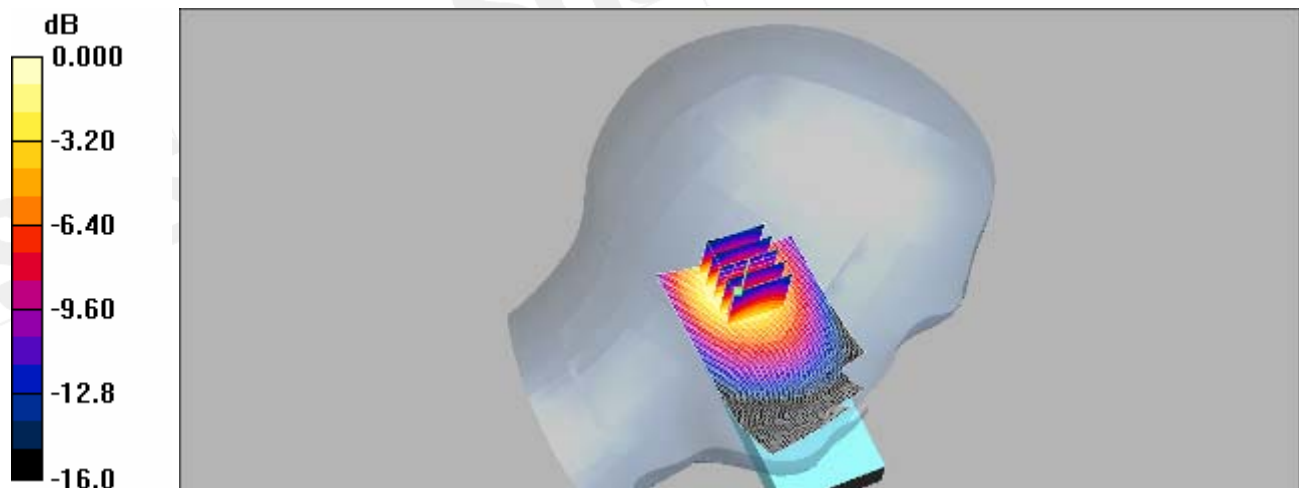
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 20.1 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 0.942 W/kg

**SAR(1 g) = 0.577 mW/g; SAR(10 g) = 0.340 mW/g**

Maximum value of SAR (measured) = 0.638 mW/g



0 dB = 0.638mW/g

Date/Time: 2008/7/25 10:29:23

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## BODY\_CH512

DUT: DREA100; IMEI:358279010028510

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4  
Medium: M1800 & 1900 Medium parameters used (interpolated):  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.56 \text{ mho/m}$ ;  $\epsilon_r = 53$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.04, 9.04, 9.04); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**BODY/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.902 mW/g

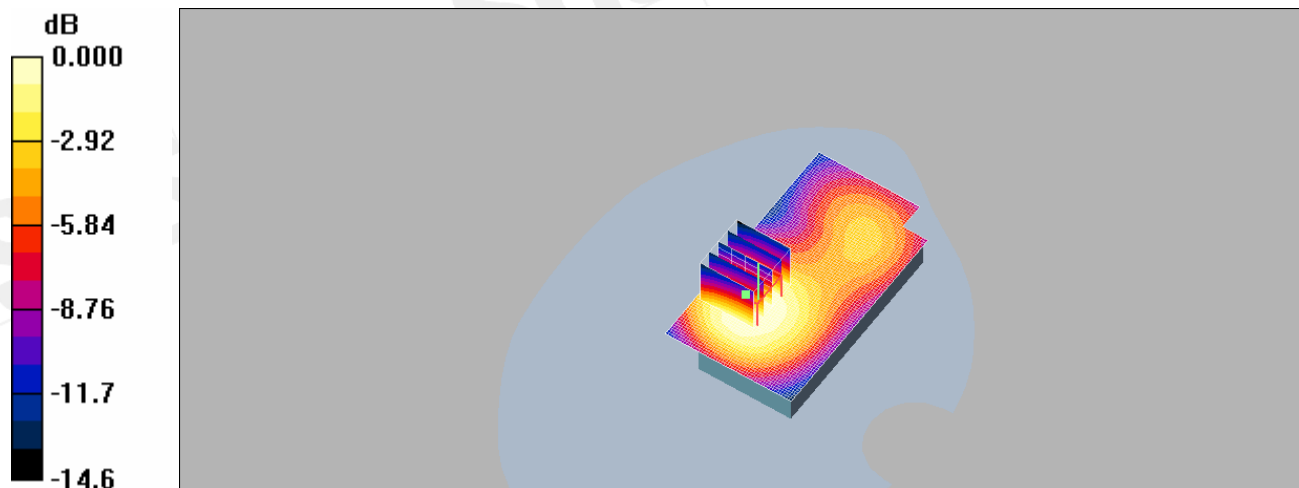
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 18.6 V/m; Power Drift = -0.172 dB

Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.807 mW/g; SAR(10 g) = 0.513 mW/g**

Maximum value of SAR (measured) = 0.864 mW/g



0 dB = 0.864mW/g

Date/Time: 2008/7/25 02:23:57

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## LE Tilt\_CH1513\_slider off\_ repeated with WLAN802.11 b active

DUT: DREA100; IMEI:358279010028510

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
 Medium: Head 1800 MHz Medium parameters used:  $f = 1753 \text{ MHz}$ ;  $\sigma = 1.42 \text{ mho/m}$ ;  $\epsilon_r = 41.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**LE\_Tilt/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 0.958 mW/g

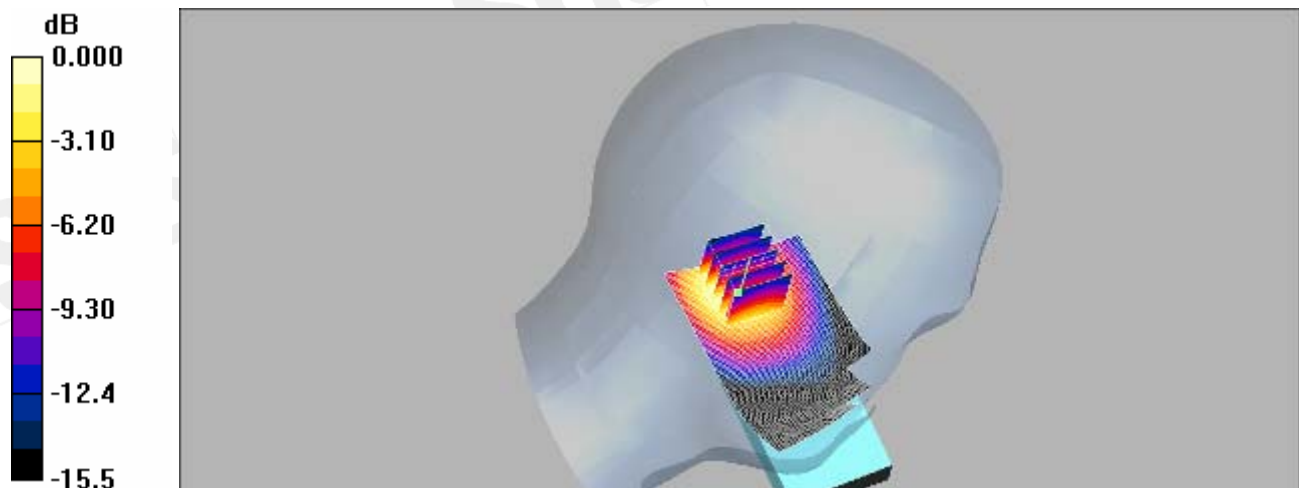
**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 23.9 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.908 mW/g; SAR(10 g) = 0.539 mW/g**

Maximum value of SAR (measured) = 0.990 mW/g



0 dB = 0.990mW/g

Date/Time: 2008/7/25 12:23:48

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## BODY\_CH1513

DUT: DREA100; IMEI:358279010028510

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium: M1800 & 1900 Medium parameters used (interpolated):  $f = 1752.6 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 53.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.04, 9.04, 9.04); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**BODY/Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.596 mW/g

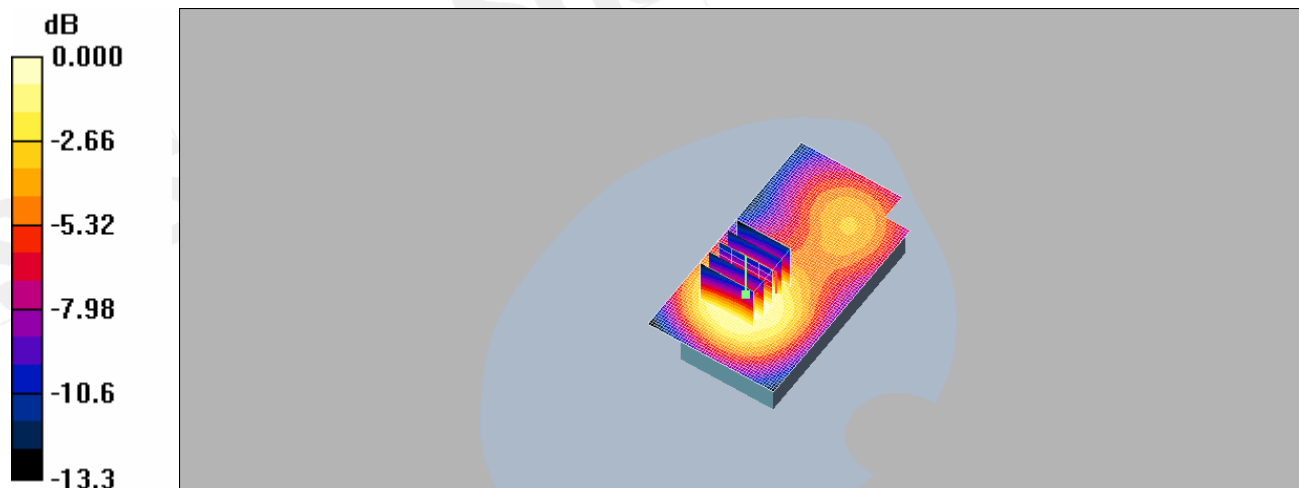
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 14.6 V/m; Power Drift = 0.146 dB

Peak SAR (extrapolated) = 0.901 W/kg

**SAR(1 g) = 0.582 mW/g; SAR(10 g) = 0.372 mW/g**

Maximum value of SAR (measured) = 0.627 mW/g



0 dB = 0.627mW/g

Date/Time: 2008/7/25 15:05:32

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## BODY\_WLAN802.11 b\_CH11\_ repeated with Bluetooth active

DUT: DREA100; IMEI:358279010028510

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.95 \text{ mho/m}$ ;  $\epsilon_r = 52.5$ ;  
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**BODY/Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.103 mW/g

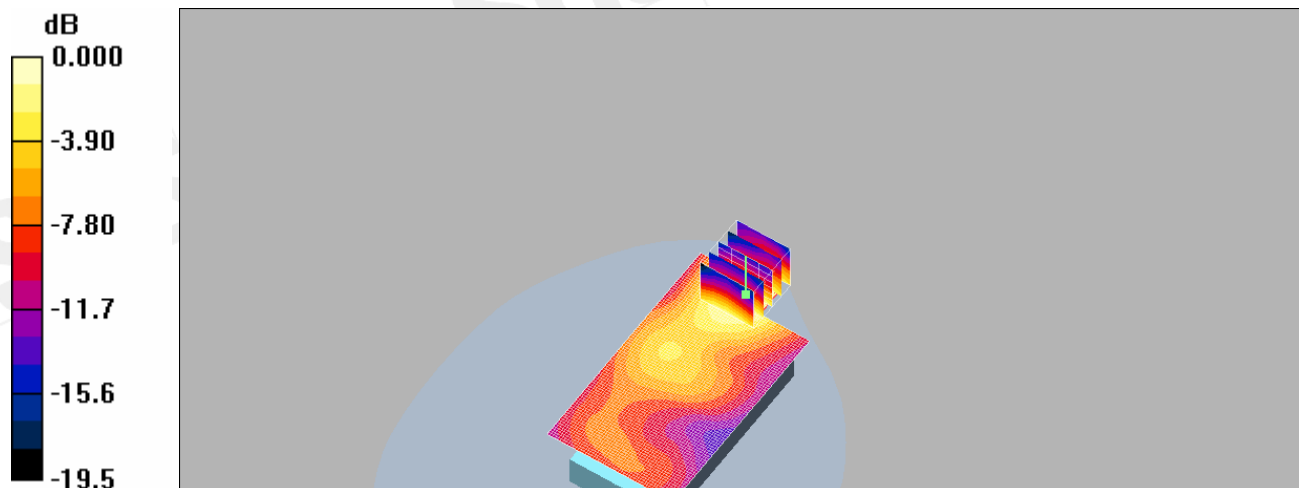
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  
 $dz=5\text{mm}$

Reference Value = 3.08 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 0.158 W/kg

**SAR(1 g) = 0.1 mW/g; SAR(10 g) = 0.051 mW/g**

Maximum value of SAR (measured) = 0.100 mW/g



0 dB = 0.110mW/g

Date/Time: 2008/7/25 15:56:42

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## BODY\_WLAN802.11 g\_CH11

DUT: DREA100; IMEI:358279010028510

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium: Muscle 2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 52.5$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**BODY/Area Scan (51x111x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.013 mW/g

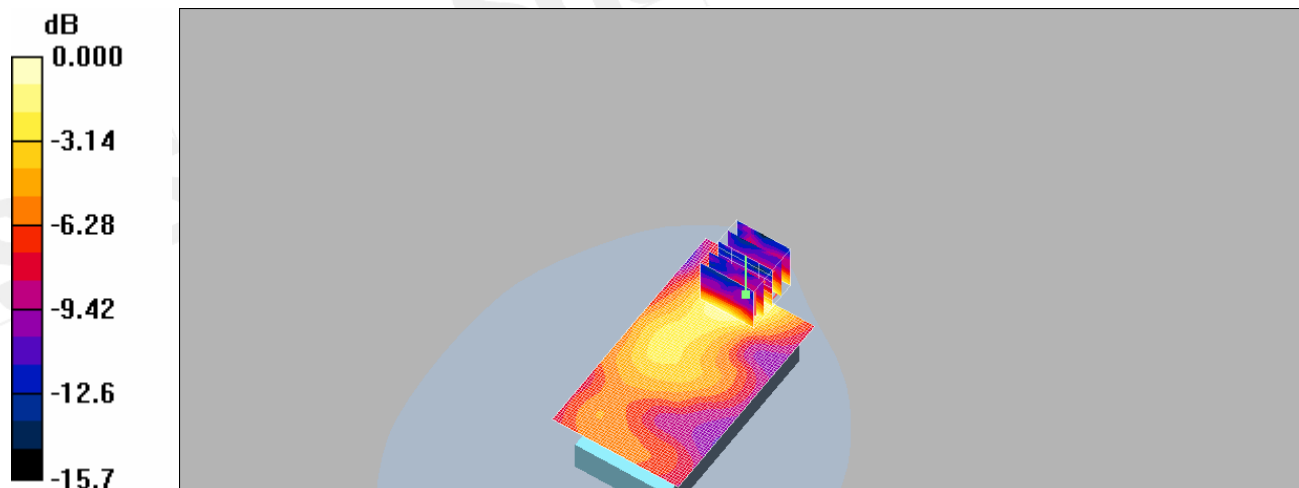
**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm,  
dz=5mm

Reference Value = 1.15 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 0.021 W/kg

**SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00637 mW/g**

Maximum value of SAR (measured) = 0.012 mW/g



0 dB = 0.012mW/g

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## 5. System Verification

Date/Time: 2008/5/25 00:47:23

DUT: Dipole 900 MHz; Type: D900V2; Serial: SN:178

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

Medium: Head 850 MHz Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 0.937 \text{ mho/m}$ ;  $\epsilon_r = 39.4$ ;  
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(11.48, 11.48, 11.48); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Pin=250mW/Area Scan (61x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 2.76 mW/g

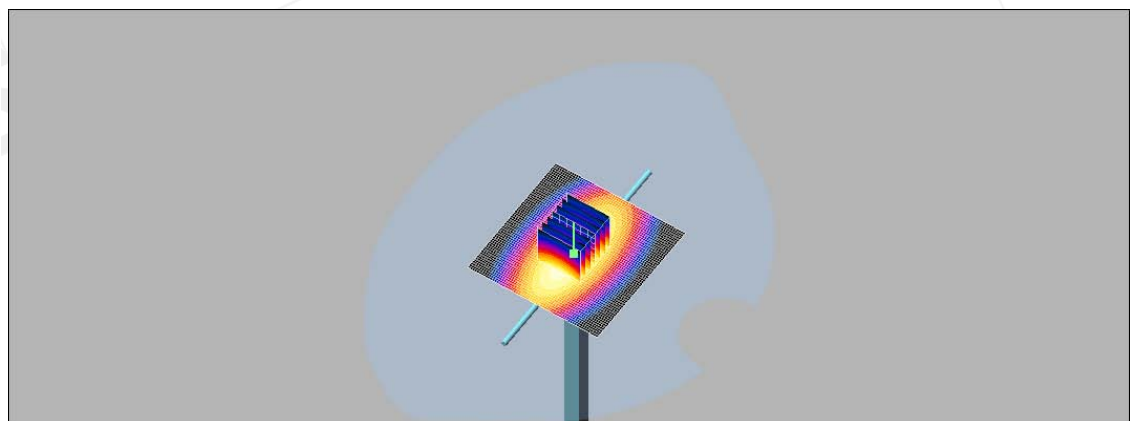
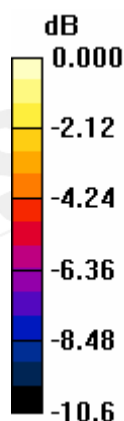
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  
 $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 54.3 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 3.84 W/kg

**SAR(1 g) = 2.58 mW/g; SAR(10 g) = 1.67 mW/g**

Maximum value of SAR (measured) = 2.75 mW/g



0 dB = 2.75mW/g

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DUT: Dipole 1800 MHz; Type: D1800V2; Serial:2d061

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1  
 Medium: Head 1800 MHz Medium parameters used (extrapolated):  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.34 \text{ mho/m}$ ;  $\epsilon_r = 41.3$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Pin=250mW/Area Scan (41x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 9.95 mW/g

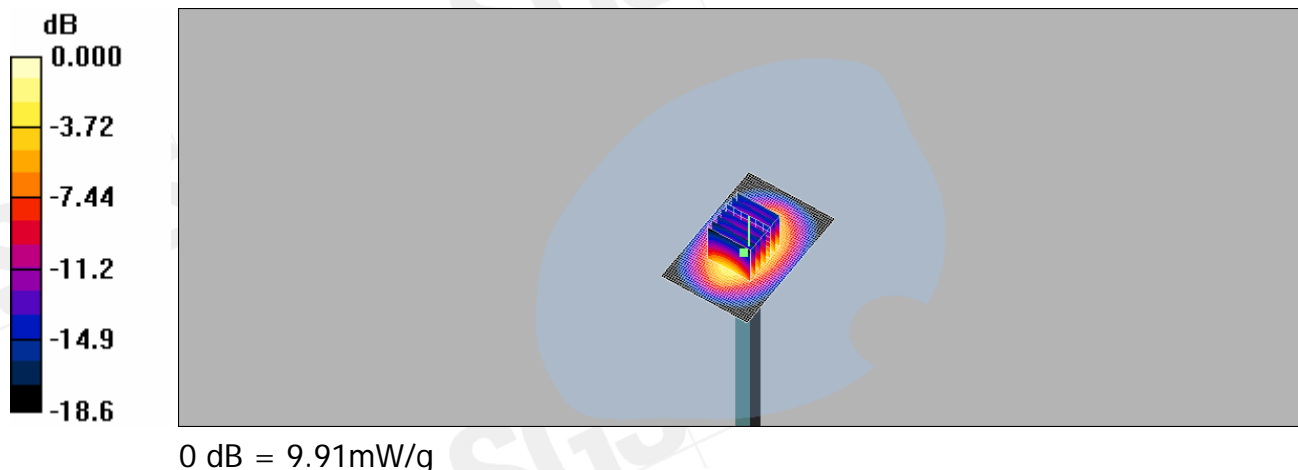
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  
 $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 86.4 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 16.7 W/kg

**SAR(1 g) = 9.41 mW/g; SAR(10 g) = 4.69 mW/g**

Maximum value of SAR (measured) = 9.91 mW/g



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DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d027

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium: Head 1900MHz Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.46 \text{ mho/m}$ ;  $\epsilon_r = 41$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Pin=250mw/Area Scan (51x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 14.2 mW/g

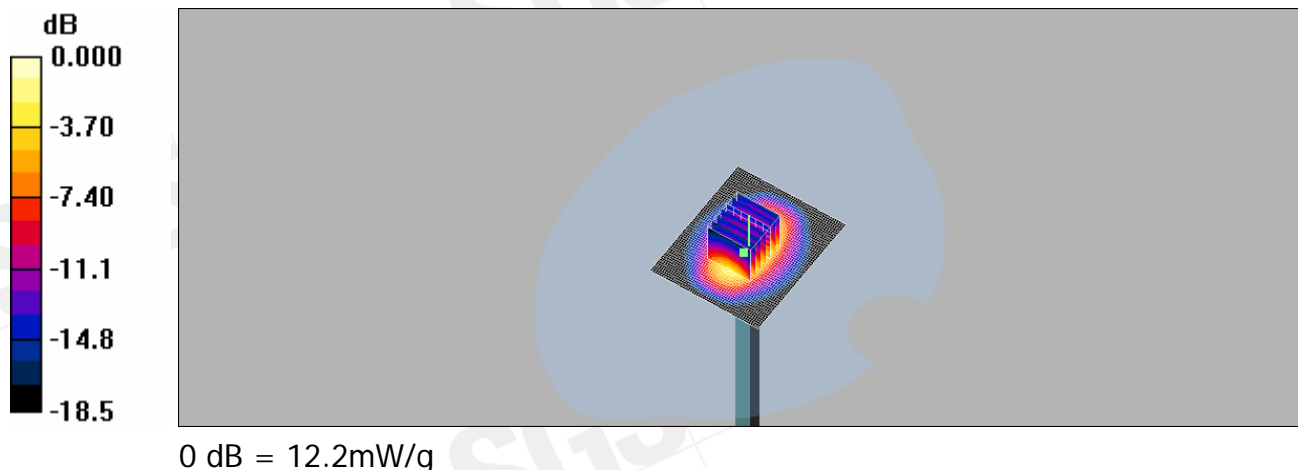
**Pin=250mw/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  
 $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 92.5 V/m; Power Drift = 0.163 dB

Peak SAR (extrapolated) = 20.2 W/kg

**SAR(1 g) = 10.8 mW/g; SAR(10 g) = 5.68 mW/g**

Maximum value of SAR (measured) = 12.2 mW/g



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DUT: Dipole 900 MHz; Type: D900V2; Serial: SN:178

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

Medium: Muscle 900 MHz Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 1.07 \text{ mho/m}$ ;  $\epsilon_r = 54.4$ ;  
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Pin=250mW/Area Scan (61x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 2.84 mW/g

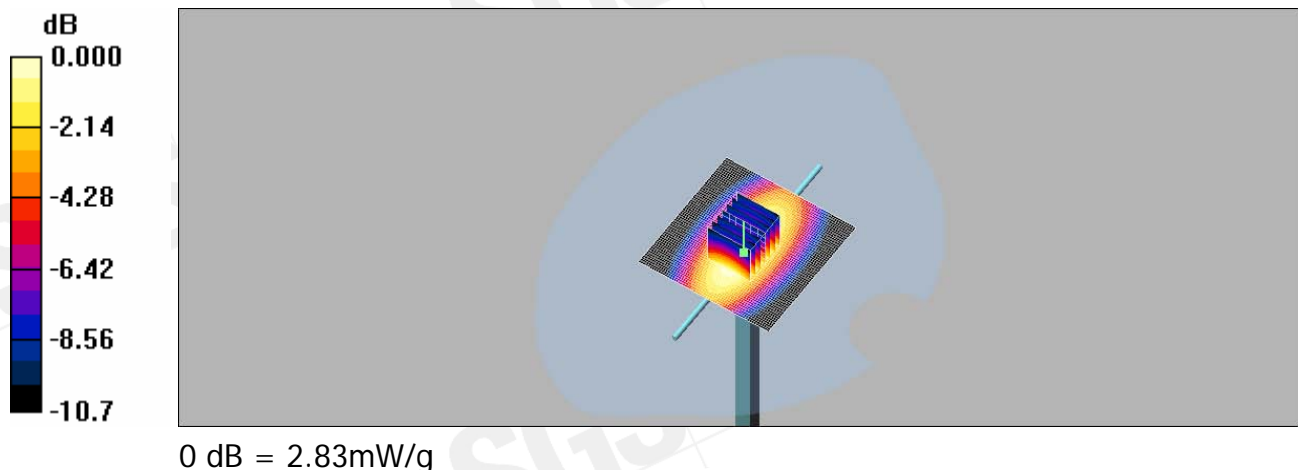
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  
 $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 51.2 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 3.93 W/kg

**SAR(1 g) = 2.79 mW/g; SAR(10 g) = 1.81 mW/g**

Maximum value of SAR (measured) = 2.83 mW/g



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DUT: Dipole 1800 MHz; Type: D1800V2; Serial:2d061

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1  
 Medium: M1800 Medium parameters used (interpolated):  $f = 1800$  MHz;  $\sigma = 1.49$  mho/m;  
 $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.04, 9.04, 9.04); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Pin=250mW /Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 11.0 mW/g

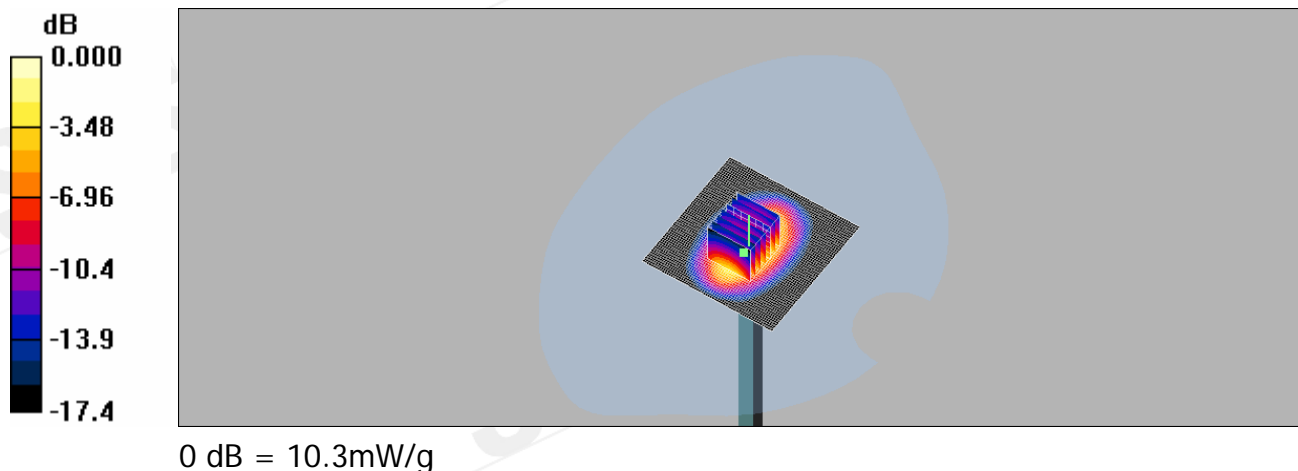
**Pin=250mW /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.5 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 16.4 W/kg

**SAR(1 g) = 9.49 mW/g; SAR(10 g) = 4.86 mW/g**

Maximum value of SAR (measured) = 10.3 mW/g



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DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d027

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium: M1800 & 1900 Medium parameters used (interpolated):  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.57 \text{ mho/m}$ ;  $\epsilon_r = 51.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.04, 9.04, 9.04); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Pin=250mW/Area Scan (51x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 12.3 mW/g

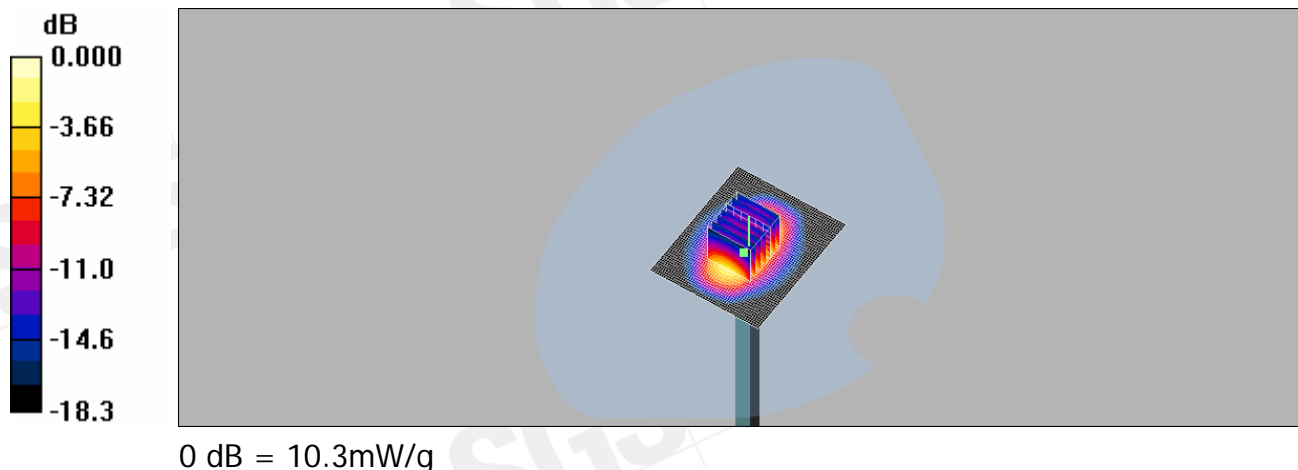
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  
 $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 83.4 V/m; Power Drift = -0.190 dB

Peak SAR (extrapolated) = 17.2 W/kg

**SAR(1 g) = 9.32 mW/g; SAR(10 g) = 4.79 mW/g**

Maximum value of SAR (measured) = 10.3 mW/g



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DUT: Dipole 2450 MHz; Type: D2450V2; Serial:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: M 2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**Pin=250mW/Area Scan (51x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 17.8 mW/g

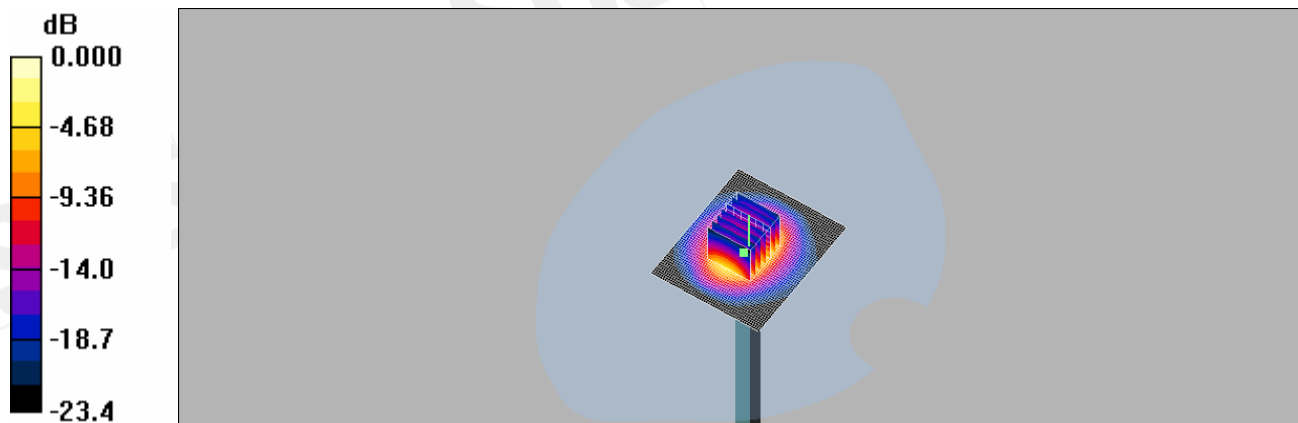
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.5 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 28.6 W/kg

**SAR(1 g) = 13.5 mW/g; SAR(10 g) = 6.15 mW/g**

Maximum value of SAR (measured) = 15.1 mW/g



0 dB = 15.1mW/g

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DUT: Dipole 900 MHz; Type: D900V2; Serial: SN:178

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

Medium: Head 900 MHz Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 0.968 \text{ mho/m}$ ;  $\epsilon_r = 41.5$ ;  
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(11.48, 11.48, 11.48); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.84 mW/g

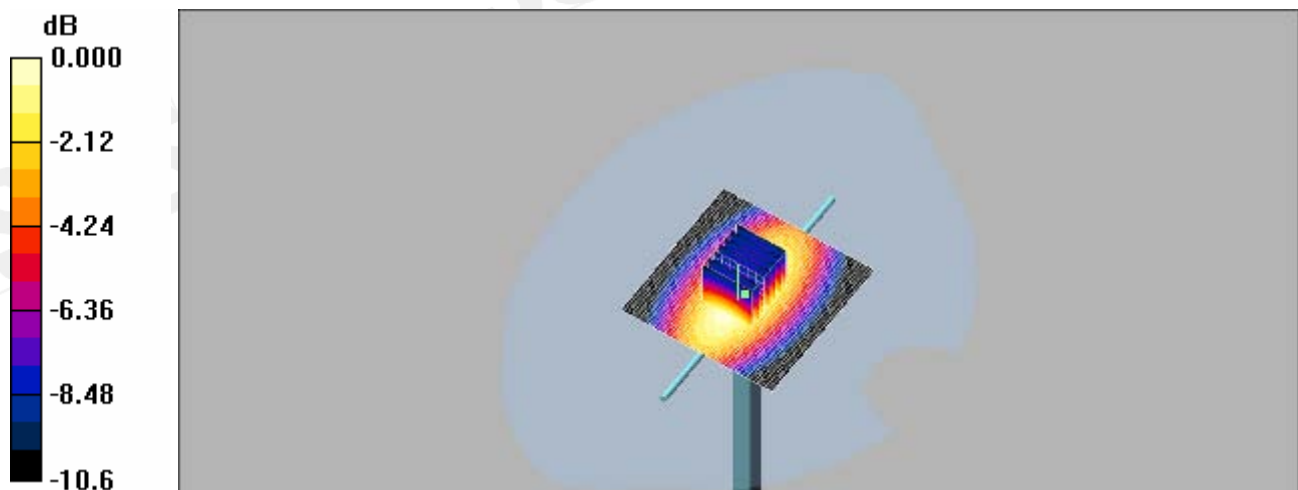
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.3 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 3.92 W/kg

**SAR(1 g) = 2.63 mW/g; SAR(10 g) = 1.72 mW/g**

Maximum value of SAR (measured) = 2.82 mW/g



0 dB = 2.82mW/g

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DUT: Dipole 900 MHz; Type: D900V2; Serial: SN:178

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

Medium: Muscle 900 MHz Medium parameters used:  $f = 900 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(10.93, 10.93, 10.93); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**Pin=250mW/Area Scan (61x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 2.85 mW/g

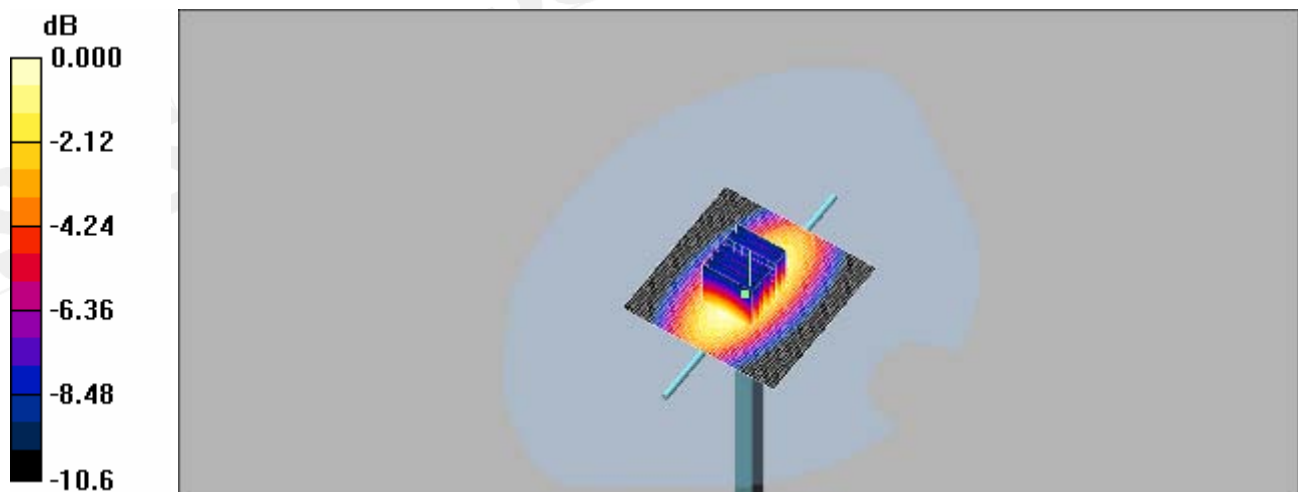
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 53.0 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 3.95 W/kg

**SAR(1 g) = 2.74 mW/g; SAR(10 g) = 1.82 mW/g**

Maximum value of SAR (measured) = 2.84 mW/g



0 dB = 2.84mW/g

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DUT: Dipole 1800 MHz; Type: D1800V2; Serial:2d061

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: Head 1800 MHz Medium parameters used:  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.46 \text{ mho/m}$ ;  $\epsilon_r = 40.8$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**Pin=250mW/Area Scan (41x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 10.6 mW/g

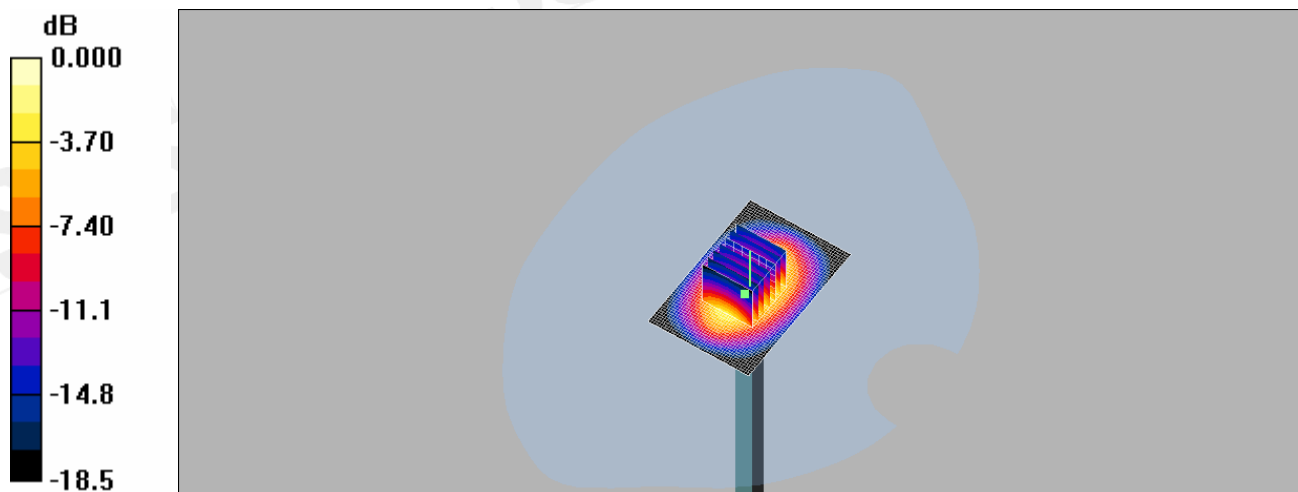
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 85.3 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 17.7 W/kg

**SAR(1 g) = 9.43 mW/g; SAR(10 g) = 4.89 mW/g**

Maximum value of SAR (measured) = 10.5 mW/g



0 dB = 10.5mW/g

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DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 2d061

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1  
 Medium: M1800 & 1900 Medium parameters used (interpolated):  $f = 1800 \text{ MHz}$ ;  $\sigma = 1.45 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

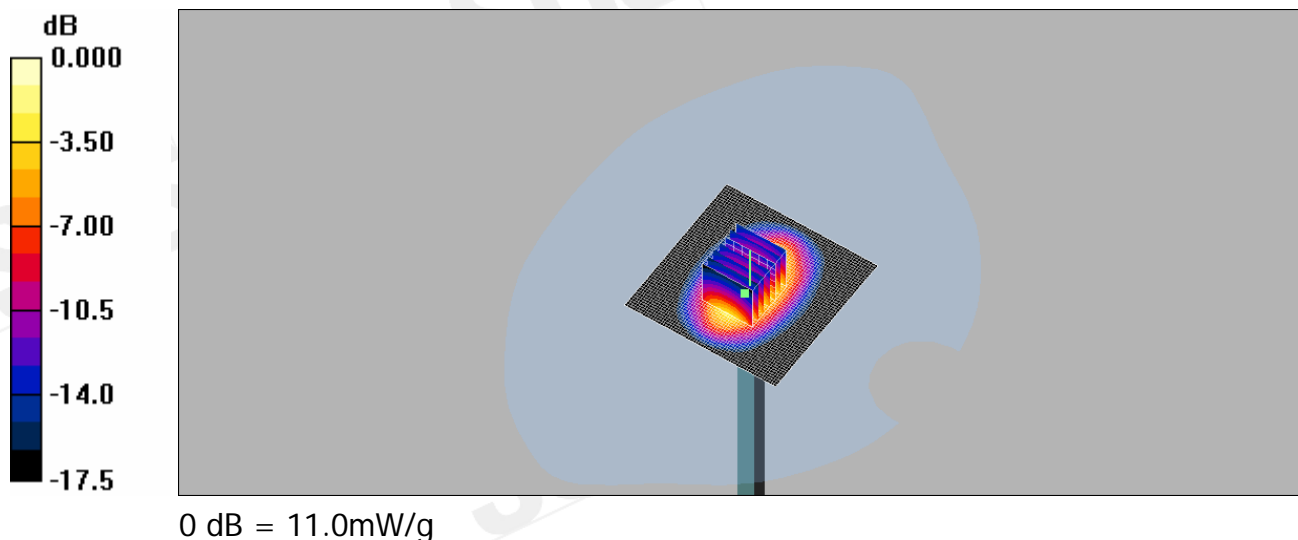
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**20070113/Area Scan (61x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 11.4 mW/g

**20070113/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 87.5 V/m; Power Drift = -0.011 dB  
 Peak SAR (extrapolated) = 17.6 W/kg

**SAR(1 g) = 9.77 mW/g; SAR(10 g) = 5.16 mW/g**  
 Maximum value of SAR (measured) = 11.0 mW/g



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DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d027

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium: Head 1900MHz Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.38 \text{ mho/m}$ ;  $\epsilon_r = 38.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section

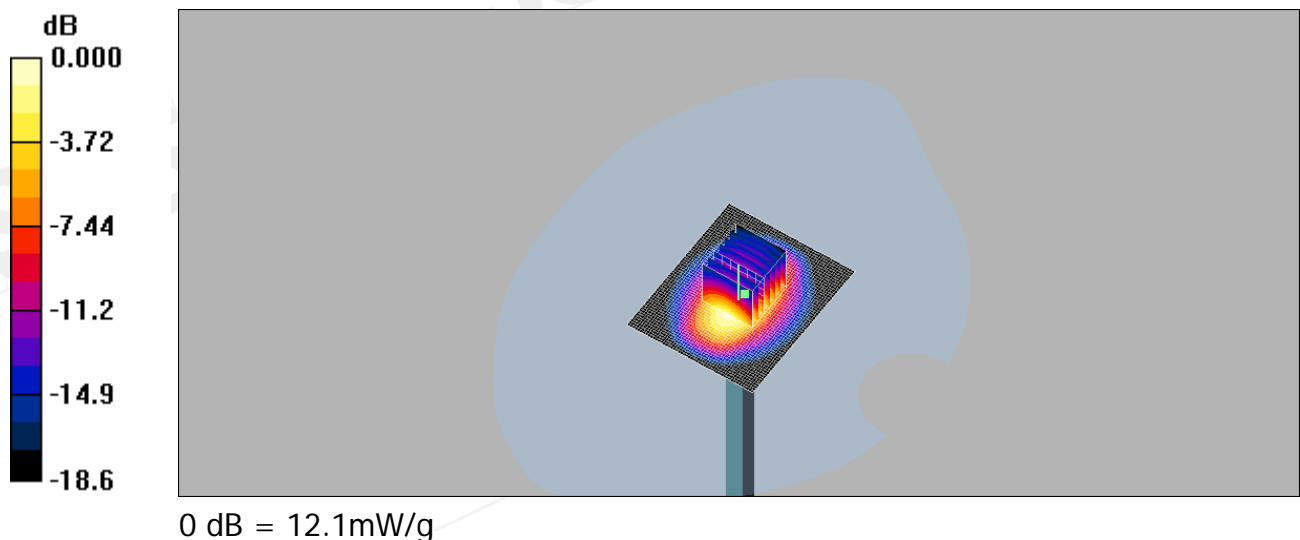
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.3, 9.3, 9.3); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**Pin=250mw/Area Scan (51x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (interpolated) = 13.6 mW/g

**Pin=250mw/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 92.9 V/m; Power Drift = 0.108 dB  
 Peak SAR (extrapolated) = 20.4 W/kg

**SAR(1 g) = 10.8 mW/g; SAR(10 g) = 5.48 mW/g**  
 Maximum value of SAR (measured) = 12.1 mW/g



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DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d027

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium: M1800 & 1900 Medium parameters used (interpolated):  $f = 1900$  MHz;  $\sigma = 1.56$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

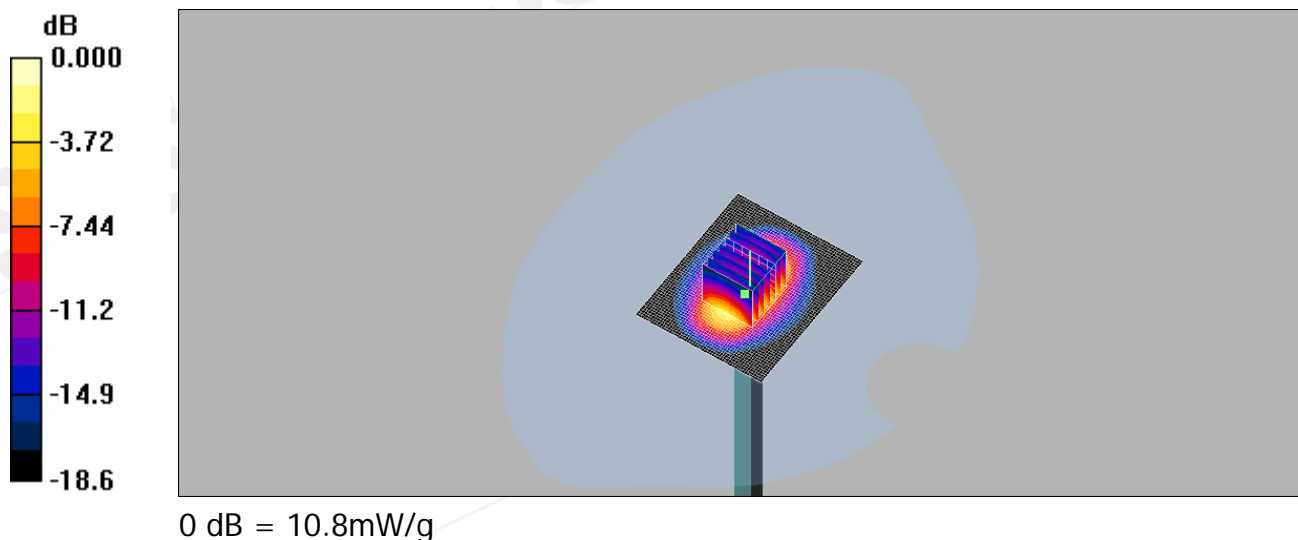
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.64, 9.64, 9.64); Calibrated: 2006/8/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**Pin=250mW/Area Scan (51x61x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 12.7 mW/g

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 82.2 V/m; Power Drift = 0.296 dB  
 Peak SAR (extrapolated) = 17.7 W/kg

**SAR(1 g) = 9.39 mW/g; SAR(10 g) = 4.82 mW/g**  
 Maximum value of SAR (measured) = 10.8 mW/g



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DUT: Dipole 2450 MHz; Type: D2450V2; Serial:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: M 2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.99$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

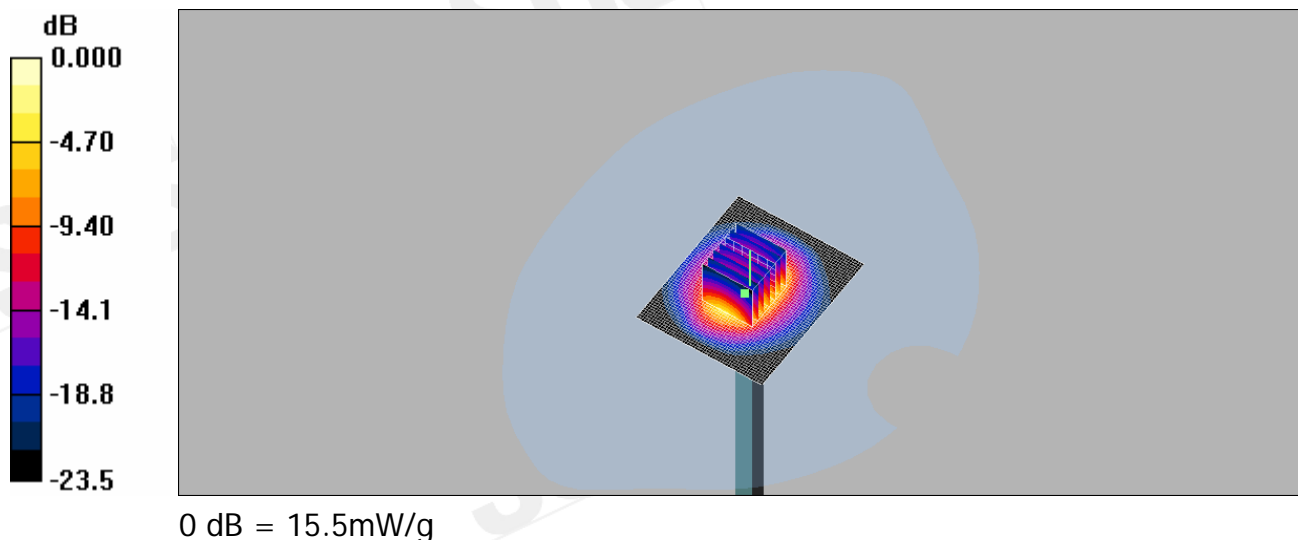
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(8.08, 8.08, 8.08); Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

**Pin=250mW/Area Scan (51x61x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 18.2 mW/g

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 88.1 V/m; Power Drift = -0.014 dB  
 Peak SAR (extrapolated) = 29.2 W/kg

**SAR(1 g) = 13.8 mW/g; SAR(10 g) = 6.26 mW/g**  
 Maximum value of SAR (measured) = 15.5 mW/g



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## 6. DAE & Probe Calibration certificate

**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**S** Service suisse d'étalonnage  
**C** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS (Auden)**

Certificate No: **DAE4-547\_Jan08**

### CALIBRATION CERTIFICATE

Object: **DAE4 - SD 000 D04 BA - SN: 547**

Calibration procedure(s): **QA CAL-06.v12  
Calibration procedure for the data acquisition electronics (DAE)**

Calibration date: **January 24, 2008**

Condition of the calibrated item: **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Fuke Process Calibrator Type 702	SN: 6295803	04-Oct-07 (Eical AG, No: 6467)	Oct-08
Keithley Multimeter Type 2001	SN: 0810275	03-Oct-07 (Eical AG, No: 6465)	Oct-08
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Calibrator Box V1.1	SE UMS 006 AB 1004	25-Jun-07 (SPEAG, in house check)	In house check Jun-08

Calibrated by:	Name	Function	Signature
	Daniel Hess	Technician	<i>D. Hess</i>
Approved by:	Name	Function	Signature
	Fin Bornholt	R&D Director	<i>Fin Bornholt</i>

Issued: January 24, 2008

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: DAE4-547\_Jan08

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**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

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The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS (Auden)**

Certificate No: **EX3-3526\_Aug07**

## CALIBRATION CERTIFICATE

Object: **EX3DV3 - SN:3526**

Calibration procedure(s): **QA CAL-01.v6  
Calibration procedure for dosimetric E-field probes**

Calibration date: **August 29, 2007**

Condition of the calibrated item: **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility; environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41495277	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41498087	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Reference 3 dB Attenuator	SN: S5054 (3c)	8-Aug-07 (METAS, No. 217-00719)	Aug-08
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-07 (METAS, No. 217-00671)	Mar-08
Reference 30 dB Attenuator	SN: S5129 (30b)	8-Aug-07 (METAS, No. 217-00720)	Aug-08
Reference Probe ES3DV2	SN: 3013	4-Jan-07 (SPEAG, No. ES3-3013_Jan07)	Jan-08
DAE4	SN: 654	20-Apr-07 (SPEAG, No. DAE4-654_Apr07)	Apr-08
Secondary Standards	ID #	Check Date (In house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Nov-05)	In house check: Nov-07
Network Analyzer HP 8753E	US37360585	18-Oct-01 (SPEAG, in house check Oct-06)	In house check: Oct-07

Calibrated by:	Name	Function	Signature
	Katja Pokovic	Technical Manager	
Approved by:	Name	Function	Signature
	Niels Kuster	Quality Manager	

Issued: August 29, 2007

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**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



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**Glossary:**

TSL	tissue simulating liquid
NORM <sub>x,y,z</sub>	sensitivity in free space
ConF	sensitivity in TSL / NORM <sub>x,y,z</sub>
DCP	diode compression point
Polarization $\varphi$	$\varphi$ rotation around probe axis
Polarization $\vartheta$	$\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

**Calibration is Performed According to the Following Standards:**

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

**Methods Applied and Interpretation of Parameters:**

- **NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not effect the E<sup>2</sup>-field uncertainty inside TSL (see below *ConvF*).
- **NORM(f)<sub>x,y,z</sub>** = NORM<sub>x,y,z</sub> \* *frequency\_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- **DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- **ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* *ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- **Spherical Isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- **Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

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EX3DV3 SN:3526

August 29, 2007

## Probe EX3DV3

### SN:3526

Manufactured:	March 19, 2004
Last calibrated:	August 25, 2006
Recalibrated:	August 29, 2007

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

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EX3DV3 SN:3526

August 29, 2007

## DASY - Parameters of Probe: EX3DV3 SN:3526

### Sensitivity in Free Space<sup>A</sup>

### Diode Compression<sup>B</sup>

NormX	0.991 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP X	97 mV
NormY	0.807 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Y	96 mV
NormZ	0.876 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Z	97 mV

### Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

### Boundary Effect

TSL                    900 MHz    Typical SAR gradient: 5 % per mm

Sensor Center to Phantom Surface Distance		2.0 mm	3.0 mm
SAR <sub>ba</sub> [%]	Without Correction Algorithm	1.5	0.5
SAR <sub>ba</sub> [%]	With Correction Algorithm	0.3	0.4

TSL                    1810 MHz    Typical SAR gradient: 10 % per mm

Sensor Center to Phantom Surface Distance		2.0 mm	3.0 mm
SAR <sub>ba</sub> [%]	Without Correction Algorithm	3.0	1.5
SAR <sub>ba</sub> [%]	With Correction Algorithm	0.2	0.1

### Sensor Offset

Probe Tip to Sensor Center                    1.0 mm

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>A</sup> The uncertainties of NormX,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Page 8).

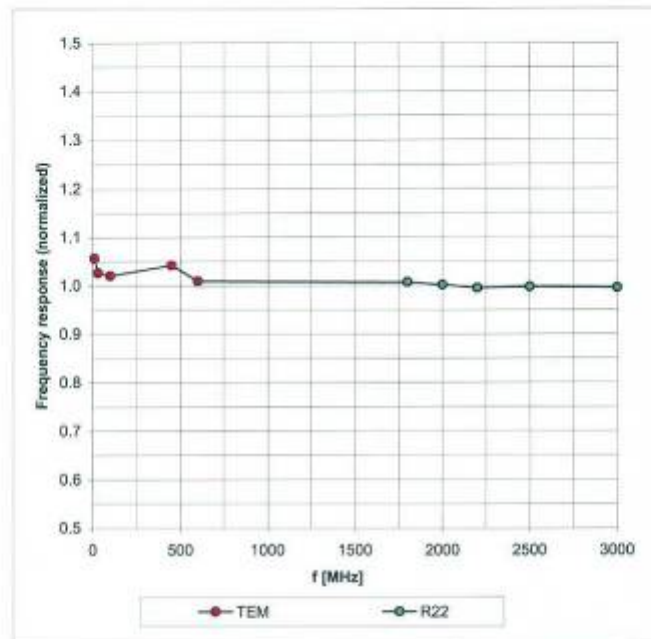
<sup>B</sup> Numerical linearization parameter: uncertainty not required.

EX3DV3 SN:3526

August 29, 2007

## Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  (k=2)

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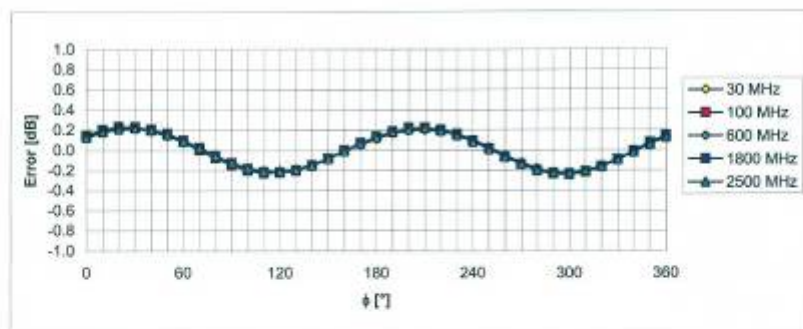
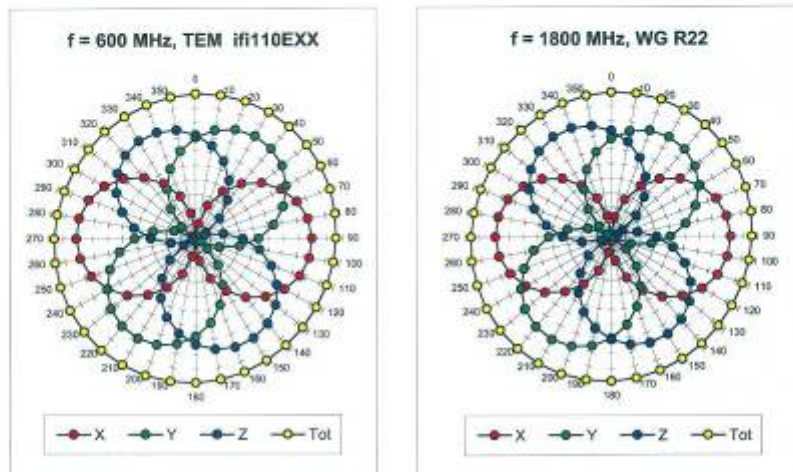
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August 29, 2007

## Receiving Pattern ( $\phi$ ), $\theta = 0^\circ$



Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

Certificate No: EX3-3526\_Aug07

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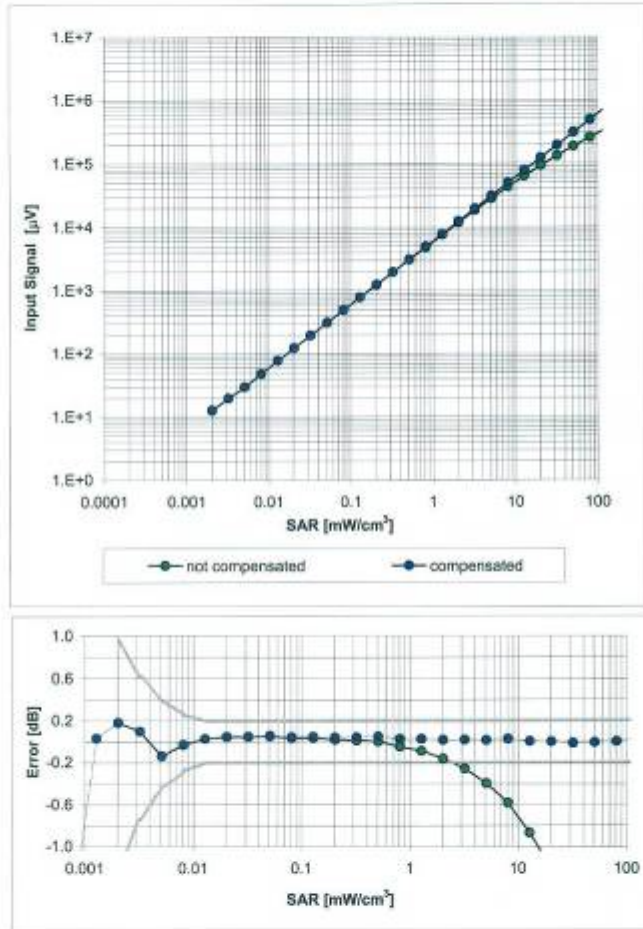
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EX3DV3 SN:3526

August 29, 2007

## Dynamic Range $f(\text{SAR}_{\text{head}})$ (Waveguide R22, $f = 1800$ MHz)



Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

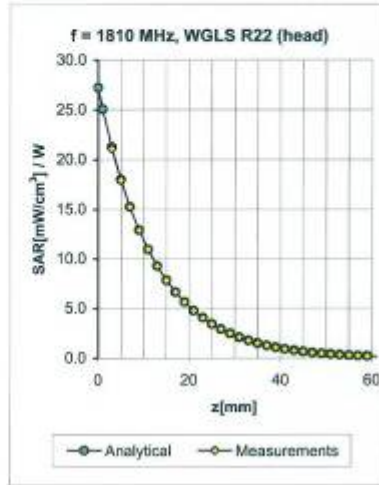
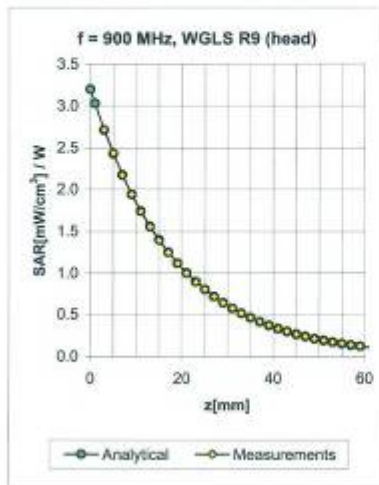
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EX3DV3 SN:3526

August 29, 2007

## Conversion Factor Assessment



f [MHz]	Validity [MHz] <sup>c</sup>	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.50	0.80	11.48 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.15	1.32	9.30 ± 11.0% (k=2)
1950	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.22	1.01	8.91 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.34	1.00	8.42 ± 11.8% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.50	0.80	10.93 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.16	1.28	9.04 ± 11.0% (k=2)
1950	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.15	1.43	8.67 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.38	1.00	8.08 ± 11.8% (k=2)

<sup>c</sup> The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

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## 7. Uncertainty Analysis

### DASY4 Uncertainty Budget According to IEEE P1528 [1]

Error Description	Uncertainty value	Prob. Dist.	Div.	( $c_i$ ) 1g	( $c_i$ ) 10g	Std. Unc. (1g)	Std. Unc. (10g)	( $v_i$ ) $v_{eff}$
<b>Measurement System</b>								
Probe Calibration	±4.8 %	N	1	1	1	±4.8 %	±4.8 %	∞
Axial Isotropy	±4.7 %	R	$\sqrt{3}$	0.7	0.7	±1.9 %	±1.9 %	∞
Hemispherical Isotropy	±9.6 %	R	$\sqrt{3}$	0.7	0.7	±3.9 %	±3.9 %	∞
Boundary Effects	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
Linearity	±4.7 %	R	$\sqrt{3}$	1	1	±2.7 %	±2.7 %	∞
System Detection Limits	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
Readout Electronics	±1.0 %	N	1	1	1	±1.0 %	±1.0 %	∞
Response Time	±0.8 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %	∞
Integration Time	±2.6 %	R	$\sqrt{3}$	1	1	±1.5 %	±1.5 %	∞
RF Ambient Conditions	±3.0 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
Probe Positioner	±0.4 %	R	$\sqrt{3}$	1	1	±0.2 %	±0.2 %	∞
Probe Positioning	±2.9 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
Max. SAR Eval.	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
<b>Test Sample Related</b>								
Device Positioning	±2.9 %	N	1	1	1	±2.9 %	±2.9 %	875
Device Holder	±3.6 %	N	1	1	1	±3.6 %	±3.6 %	5
Power Drift	±5.0 %	R	$\sqrt{3}$	1	1	±2.9 %	±2.9 %	∞
<b>Phantom and Setup</b>								
Phantom Uncertainty	±4.0 %	R	$\sqrt{3}$	1	1	±2.3 %	±2.3 %	∞
Liquid Conductivity (target)	±5.0 %	R	$\sqrt{3}$	0.64	0.43	±1.8 %	±1.2 %	∞
Liquid Conductivity (meas.)	±2.5 %	N	1	0.64	0.43	±1.6 %	±1.1 %	∞
Liquid Permittivity (target)	±5.0 %	R	$\sqrt{3}$	0.6	0.49	±1.7 %	±1.4 %	∞
Liquid Permittivity (meas.)	±2.5 %	N	1	0.6	0.49	±1.5 %	±1.2 %	∞
Combined Std. Uncertainty						±10.3 %	±10.0 %	331
<b>Expanded STD Uncertainty</b>						<b>±20.6 %</b>	<b>±20.1 %</b>	

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## 8. Phantom description

Schmid & Partner Engineering AG

**s p e a g**

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Phone +41 1 245 9700, Fax +41 1 245 9779  
info@speag.com, http://www.speag.com

### Certificate of Conformity / First Article Inspection

Item	SAM Twin Phantom V4.0
Type No	QD 000 P40 C
Series No	TP-1150 and higher
Manufacturer	SPEAG Zeughausstrasse 43 CH-8004 Zurich Switzerland

#### Tests

The series production process used allows the limitation to test of first articles. Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series items (called samples) or are tested at each item.

Test	Requirement	Details	Units tested
Dimensions	Compliant with the geometry according to the CAD model.	IT'IS CAD File (*)	First article, Samples
Material thickness of shell	Compliant with the requirements according to the standards	2mm +/- 0.2mm in flat and specific areas of head section	First article, Samples, TP-1314 ff.
Material thickness at ERP	Compliant with the requirements according to the standards	6mm +/- 0.2mm at ERP	First article, All items
Material parameters	Dielectric parameters for required frequencies	300 MHz – 6 GHz: Relative permittivity < 5, Loss tangent < 0.05	Material samples
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards if handled and cleaned according to the instructions. Observe technical Note for material compatibility.	DEGMBE based simulating liquids	Pre-series, First article, Material samples
Sagging	Compliant with the requirements according to the standards. Sagging of the flat section when filled with tissue simulating liquid.	< 1% typical < 0.8% if filled with 155mm of HSL900 and without DUT below	Prototypes, Sample testing

#### Standards

- [1] CENELEC EN 50361
  - [2] IEEE Std 1528-2003
  - [3] IEC 62209 Part I
  - [4] FCC OET Bulletin 65, Supplement C, Edition 01-01
- (\*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of the other documents.

#### Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standards [1] to [4].

Date 07.07.2005

**s p e a g**

Signature / Stamp

Schmid & Partner Engineering AG  
Zeughausstrasse 43, 8004 Zurich, Switzerland  
Phone +41 1 245 9700, Fax +41 1 245 9779  
info@speag.com, http://www.speag.com

Doc No 881 - QD 000 P40 C - F

Page 1 (1)

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## 9. System Validation from Original equipment supplier

**Calibration Laboratory of Schmid & Partner Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS (Auden)**

Certificate No: **D900V2-178\_Apr08**

CALIBRATION CERTIFICATE			
Object	D900V2 - SN: 178		
Calibration procedure(s)	QA CAL-05.v7 Calibration procedure for dipole validation kits		
Calibration date:	April 16, 2008		
Condition of the calibrated item	In Tolerance		
This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.			
All calibrations have been conducted in the closed laboratory facility; environment temperature (22 ± 3)°C and humidity < 70%.			
Calibration Equipment used (M&TE critical for calibration)			
<b>Primary Standards</b>	<b>ID #</b>	<b>Cal Date (Certificate No.)</b>	<b>Scheduled Calibration</b>
Power meter EPM-442A	GB37480704	04-Oct-07 (No. 217-00736)	Oct-08
Power sensor HP 8481A	US37282783	04-Oct-07 (No. 217-00736)	Oct-08
Reference 20 dB Attenuator	SN: 5088 (20g)	07-Aug-07 (No. 217-00718)	Aug-08
Type-N mismatch combination	SN: 5047.2 / 06327	08-Aug-07 (No. 217-00721)	Aug-08
Reference Probe ES3DV2	SN: 3025	01-Mar-08 (No. ES3-3025_Mar08)	Mar-08
DAE4	SN 801	14-Mar-08 (No. DAE4-801_Mar08)	Mar-08
<b>Secondary Standards</b>	<b>ID #</b>	<b>Check Date (in house)</b>	<b>Scheduled Check</b>
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-07)	In house check: Oct-09
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-07)	In house check: Oct-08
Calibrated by:	Name Claudio Leubler	Function Laboratory Technician	Signature 
Approved by:	Name Katja Pokovic	Technical Manager	
Issued: April 17, 2008			
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

Certificate No: D900V2-178\_Apr08

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## DASY4 Validation Report for Head TSL

Date/Time: 07.04.2008 14:33:43

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:178**

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

Medium: HSL U10 BB;

Medium parameters used:  $f = 900$  MHz;  $\sigma = 0.959$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

### DASY4 Configuration:

- Probe: ES3DV2 - SN3025; ConvF[5.94, 5.94, 5.94]; Calibrated: 01.03.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; ;
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

### Pin = 250 mW; d = 15 mm/Zoom Scan (7x7x7)/Cube 0:

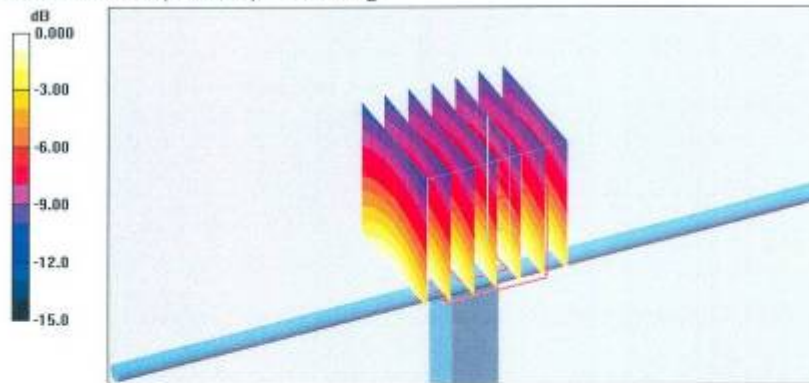
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.5 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 3.92 W/kg

**SAR(1 g) = 2.67 mW/g; SAR(10 g) = 1.73 mW/g**

Maximum value of SAR (measured) = 3.04 mW/g



## DASY4 Validation Report for Body TSL

Date/Time: 16.04.2008 11:52:15

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:178**

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

Medium: MSL U10;

Medium parameters used:  $f = 900$  MHz;  $\sigma = 1.07$  mho/m;  $\epsilon_r = 53.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

### DASY4 Configuration:

- Probe: ES3DV2 - SN3025; ConvF(5.74, 5.74, 5.74); Calibrated: 01.03.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; ;
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

### Pin=250mW, d = 15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.5 V/m; Power Drift = 0.003 dB

Peak SAR (extrapolated) = 4.17 W/kg

SAR(1 g) = 2.84 mW/g; SAR(10 g) = 1.84 mW/g

Maximum value of SAR (measured) = 3.24 mW/g



0 dB = 3.24mW/g



**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



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C Service suisse d'étalonnage  
S Servizio svizzero di taratura  
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS (Auden)**

Certificate No: **D1800V2-2d061\_Apr08**

## CALIBRATION CERTIFICATE

Object: **D1800V2 - SN: 2d061**

Calibration procedure(s): **QA CAL-05.v7  
Calibration procedure for dipole validation kits**

Calibration date: **April 15, 2008**

Condition of the calibrated item: **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	04-Oct-07 (No. 217-00736)	Oct-08
Power sensor HP B481A	US37292783	04-Oct-07 (No. 217-00736)	Oct-08
Reference 20 dB Attenuator	SN: 5086 (20g)	07-Aug-07 (No. 217-00718)	Aug-08
Type-N mismatch combination	SN: 5047.2 / 06327	06-Aug-07 (No. 217-00721)	Aug-08
Reference Probe ES3DV2	SN: 3025	01-Mar-08 (No. ES3-3025_Mar08)	Mar-09
DAE4	SN: 601	14-Mar-08 (No. DAE4-601_Mar08)	Mar-09
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-07)	In house check: Oct-08
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585 84206	18-Oct-01 (in house check Oct-07)	In house check: Oct-08

	Name	Function	Signature
Calibrated by:	Marcel Fehr	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: April 16, 2008

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D1800V2-2d061\_Apr08

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## DASY4 Validation Report for Head TSL

Date/Time: 08.04.2008 11:57:19

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: SN:2d061**

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: HSL U10 BB;

Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

### DASY4 Configuration:

- Probe: ES3DV2 - SN3025; ConvF(4.96, 4.96, 4.96); Calibrated: 01.03.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

**Pin = 250 mW; dip = 10 mm, scan at 3.4mm/Zoom Scan (dist=3.4mm, probe 0deg)  
(7x7x7)/Cube 0:**

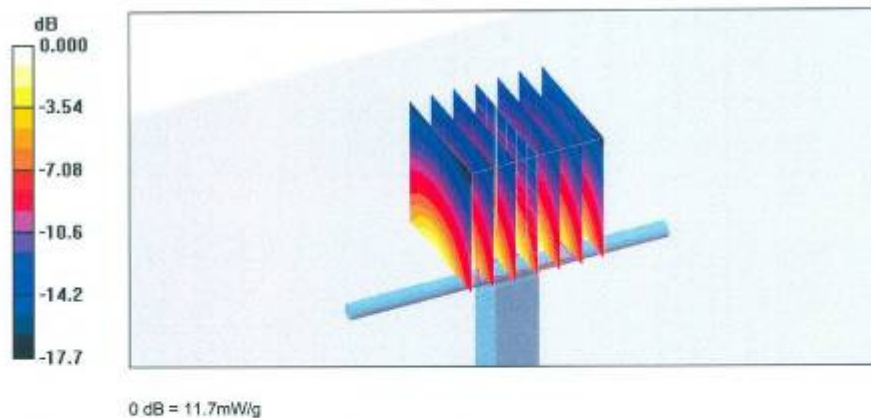
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.0 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 18.1 W/kg

**SAR(1 g) = 9.86 mW/g; SAR(10 g) = 5.14 mW/g**

Maximum value of SAR (measured) = 11.7 mW/g



## DASY4 Validation Report for Body TSL

Date/Time: 15.04.2008 10:21:05

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: SN:2d061**

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: MSL U10;

Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.5$  mho/m;  $\epsilon_r = 51.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

### DASY4 Configuration:

- Probe: ES3DV2 - SN3025; ConvF(4.73, 4.73, 4.73); Calibrated: 01.03.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

**Pin = 250 mW; dip = 10 mm, scan at 3.4mm/Zoom Scan (dist=3.4mm, probe 0deg)  
(7x7x7)/Cube 0:**

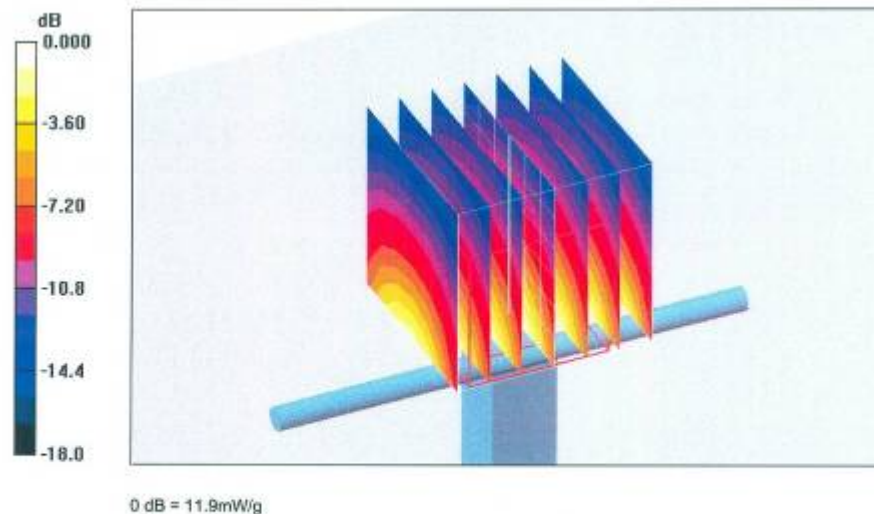
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.2 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 17.6 W/kg

**SAR(1 g) = 9.87 mW/g; SAR(10 g) = 5.25 mW/g**

Maximum value of SAR (measured) = 11.9 mW/g



**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**S** Service suisse d'étalonnage  
**C** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Federal Office of Metrology and Accreditation  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS (Auden)**

Certificate No: **D1900V2-5d027\_Apr08**

## CALIBRATION CERTIFICATE

Object: **D1900V2 - SN: 5d027**

Calibration procedure(s): **QA CAL-05.v7  
Calibration procedure for dipole validation kits**

Calibration date: **April 15, 2008**

Condition of the calibrated item: **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	04-Oct-07 (No. 217-00736)	Oct-08
Power sensor HP 8481A	US37292783	04-Oct-07 (No. 217-00736)	Oct-08
Reference 20 dB Attenuator	SN: 5086 (20g)	07-Aug-07 (No. 217-00718)	Aug-08
Type-N mismatch combination	SN: 5047.2 / 06327	08-Aug-07 (No. 217-00721)	Aug-08
Reference Probe ES3DV2	SN: 3025	01-Mar-08 (No. ES3-3025_Mar08)	Mar-09
DAE4	SN: 601	14-Mar-08 (No. DAE4-601_Mar08)	Mar-09
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41082317	18-Oct-02 (in house check Oct-07)	In house check: Oct-05
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585 S4206	19-Oct-01 (in house check Oct-07)	In house check: Oct-08

	Name	Function	Signature
Calibrated by:	Marcel Fehr	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: April 17, 2008

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Certificate No: D1900V2-5d027\_Apr08

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## DASY4 Validation Report for Head TSL

Date/Time: 08.04.2008 13:49:58

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d027**

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

Medium: HSL U10 BB;

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

### DASY4 Configuration:

- Probe: ES3DV2 - SN3025; ConvF(4.9, 4.9, 4.9); Calibrated: 01.03.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

### Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

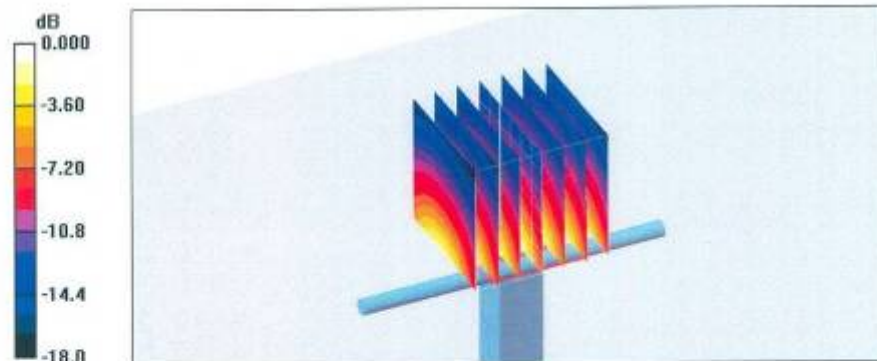
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.2 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 19.1 W/kg

**SAR(1 g) = 10.3 mW/g; SAR(10 g) = 5.3 mW/g**

Maximum value of SAR (measured) = 11.9 mW/g



0 dB = 11.9mW/g

## DASY4 Validation Report for Body TSL

Date/Time: 15.04.2008 13:51:25

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d027**

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

Medium: MSL U10 BB;

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.56$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

### DASY4 Configuration:

- Probe: ES3DV2 - SN3025; ConvF(4.5, 4.5, 4.5); Calibrated: 01.03.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; :
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

### Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

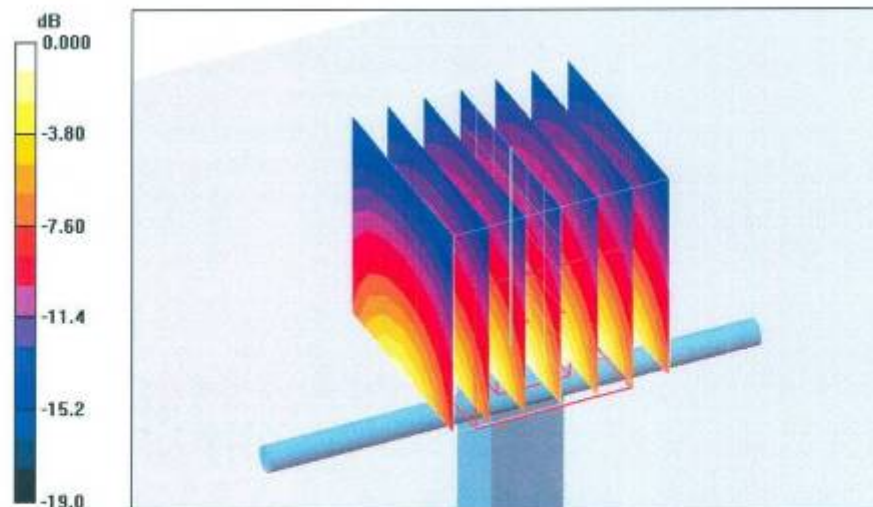
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.3 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 17.4 W/kg

**SAR(1 g) = 9.64 mW/g; SAR(10 g) = 5.07 mW/g**

Maximum value of SAR (measured) = 11.7 mW/g



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**Calibration Laboratory of  
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Zeughausstrasse 43, 8004 Zurich, Switzerland



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS (Auden)**

Certificate No: **D2450V2-727\_Apr08**

## CALIBRATION CERTIFICATE

Object: **D2450V2 - SN: 727**

Calibration procedure(s): **QA CAL-05.v7  
Calibration procedure for dipole validation kits**

Calibration date: **April 11, 2008**

Condition of the calibrated item: **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	QB37480704	04-Oct-07 (No. 217-00736)	Oct-08
Power sensor HP 8481A	US37292783	04-Oct-07 (No. 217-00736)	Oct-08
Reference 20 dB Attenuator	SN: 5086 (20g)	07-Aug-07 (No 217-00718)	Aug-08
Reference Probe ES3DV2	SN: 3025	01-Mar-08 (No. ES3-3025_Mar08)	Mar-09
DAE4	SN: 601	14-Mar-08 (No. DAE4-601_Mar08)	Mar-09

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-07)	in house check: Oct-09
RF generator R&S SMT-08	100005	4-Aug-99 (in house check Oct-07)	in house check: Oct-09
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-07)	in house check: Oct-08

Calibrated by:	Name	Function	Signature
	Mike Meili	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: April 14, 2008

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Certificate No: D2450V2-727\_Apr08

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## DASY4 Validation Report for Body TSL

Date/Time: 11.04.2008 15:23:03

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN727**

Communication System: CW-2450; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL U10;

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.99$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

### DASY4 Configuration:

- Probe: ES3DV2 - SN3025; ConvF(4.07, 4.07, 4.07); Calibrated: 01.03.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

### Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

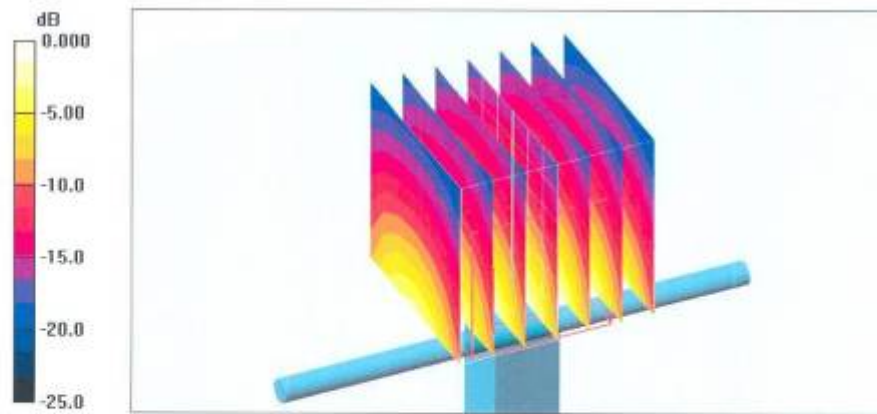
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.5 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 26.5 W/kg

**SAR(1 g) = 13.2 mW/g; SAR(10 g) = 6.15 mW/g**

Maximum value of SAR (measured) = 16.5 mW/g



0 dB = 16.5mW/g