

## RE\_Cheek\_CH11\_Slider on

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

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

Medium: HEAD 2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 37.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**RE\_Cheek/Area Scan (71x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.024 mW/g

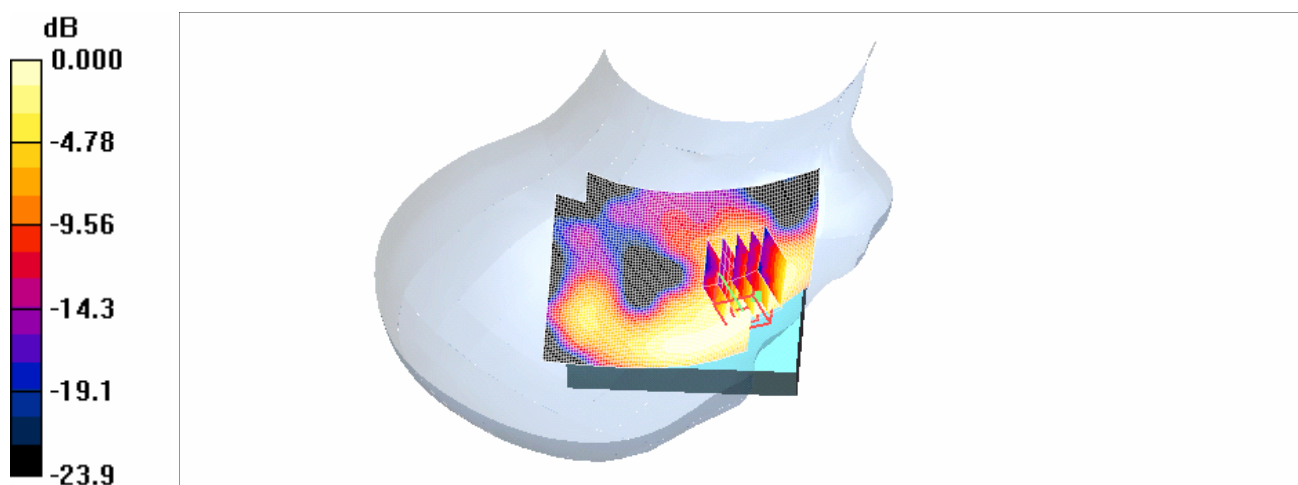
**RE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.23 V/m; Power Drift = -0.068 dB

Peak SAR (extrapolated) = 0.043 W/kg

**SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.013 mW/g**

Maximum value of SAR (measured) = 0.026 mW/g



0 dB = 0.026mW/g

## LE\_Cheek\_CH1\_Slider on

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HEAD 2450 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**LE\_Cheek/Area Scan (71x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.052 mW/g

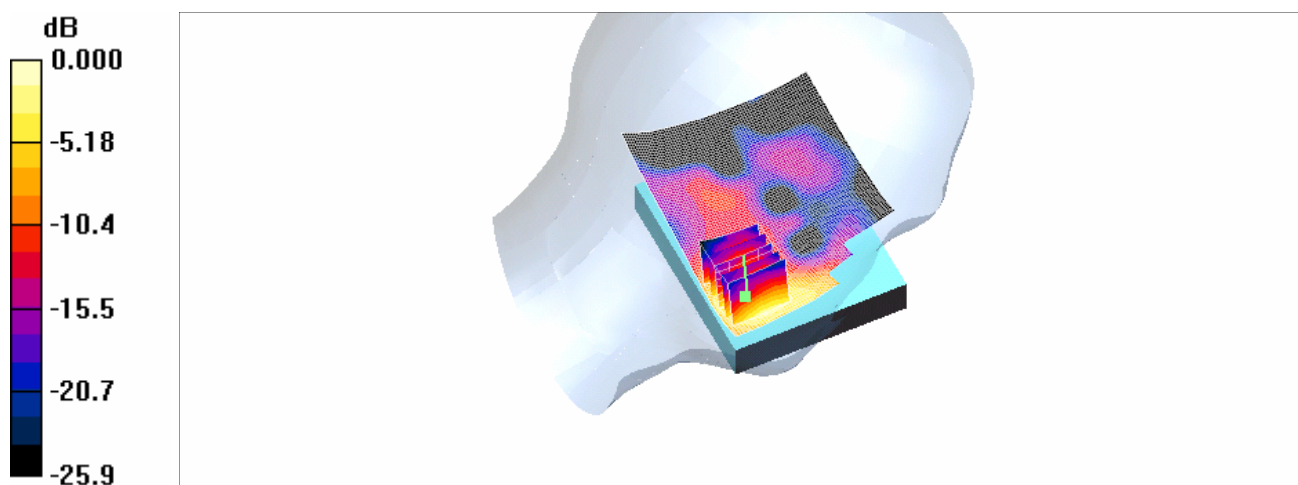
**LE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.16 V/m; Power Drift = 0.111 dB

Peak SAR (extrapolated) = 0.090 W/kg

**SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.024 mW/g**

Maximum value of SAR (measured) = 0.052 mW/g



0 dB = 0.052mW/g

## LE\_Cheek\_CH6\_Slider on

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HEAD 2450 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 37.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**LE\_Cheek/Area Scan (71x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.062 mW/g

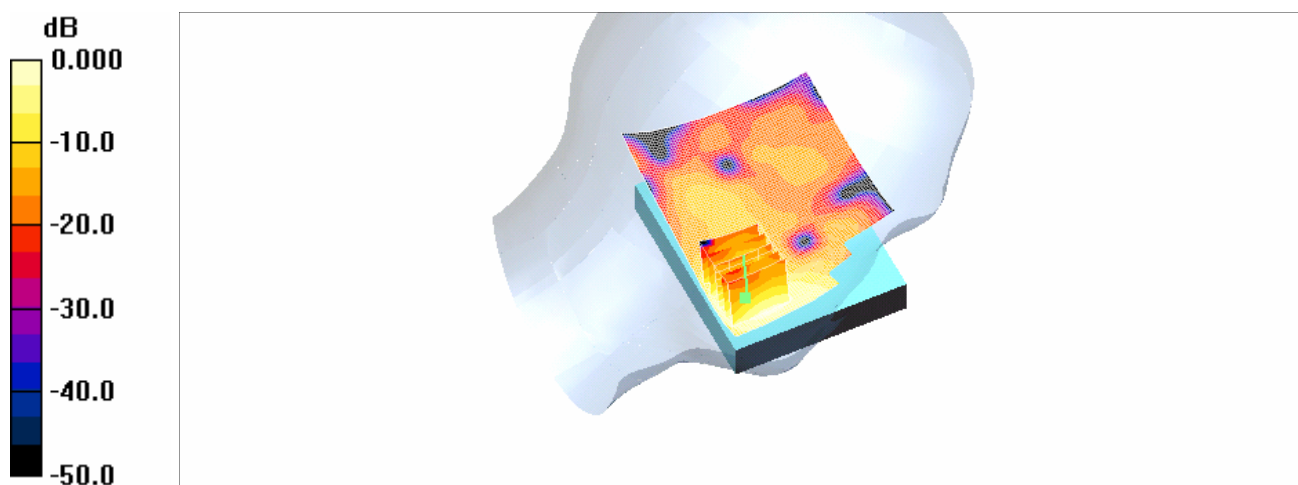
**LE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.39 V/m; Power Drift = 0.164 dB

Peak SAR (extrapolated) = 0.102 W/kg

**SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.027 mW/g**

Maximum value of SAR (measured) = 0.059 mW/g



0 dB = 0.059mW/g

## LE\_Cheek\_CH11\_Slider on

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

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

Medium: HEAD 2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 37.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**LE\_Cheek/Area Scan (71x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.055 mW/g

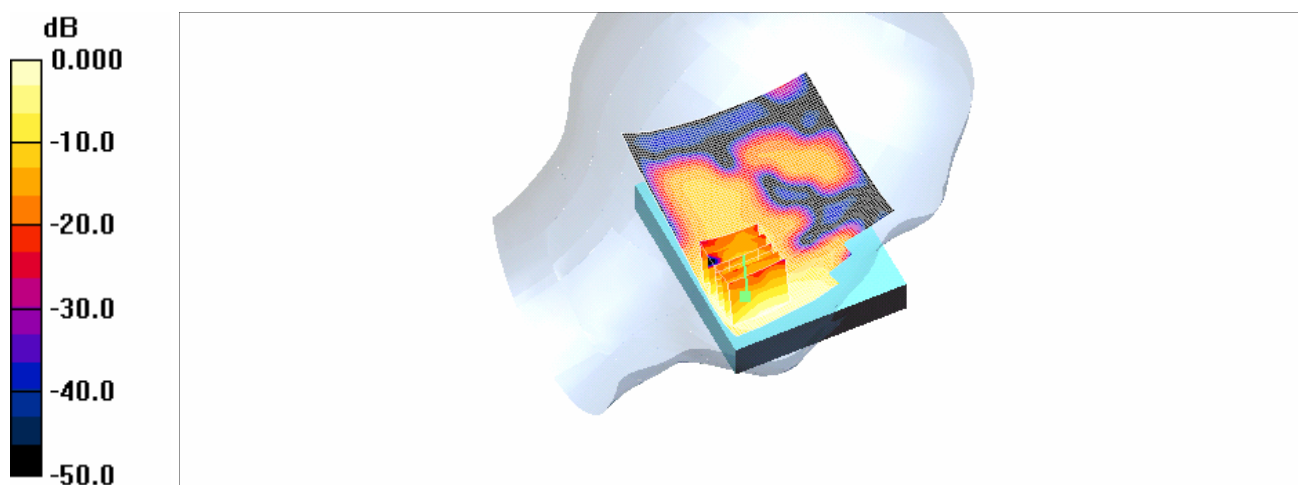
**LE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.24 V/m; Power Drift = 0.177 dB

Peak SAR (extrapolated) = 0.097 W/kg

**SAR(1 g) = 0.048 mW/g; SAR(10 g) = 0.024 mW/g**

Maximum value of SAR (measured) = 0.054 mW/g



0 dB = 0.054mW/g

## RE\_Tilt\_CH1\_Slider on

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HEAD 2450 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

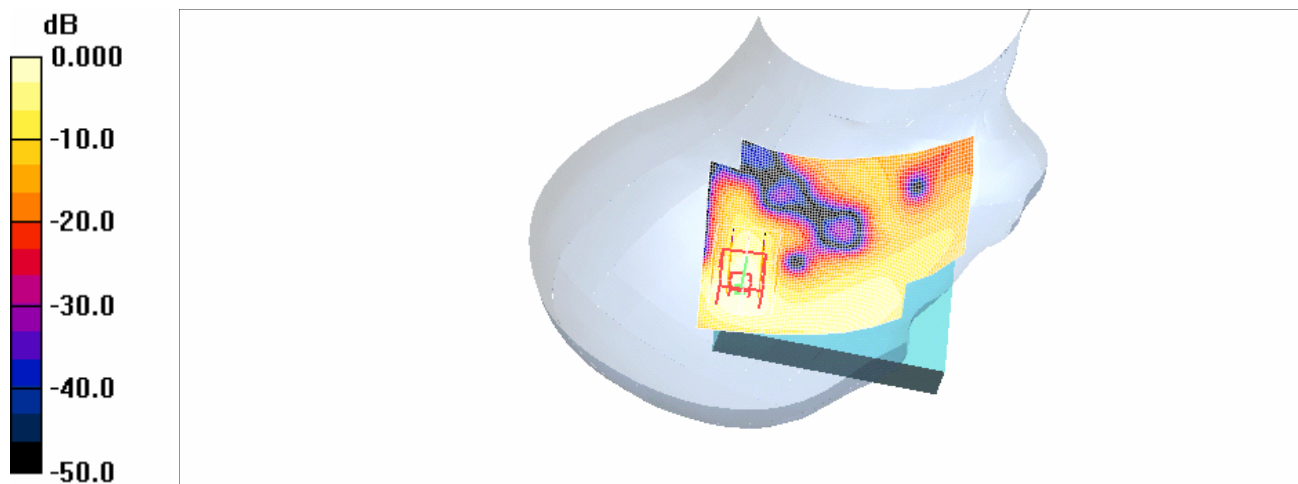
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**RE\_Tilt/Area Scan (71x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.023 mW/g

**RE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 3.10 V/m; Power Drift = 0.010 dB  
Peak SAR (extrapolated) = 0.035 W/kg

**SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00861 mW/g**  
Maximum value of SAR (measured) = 0.020 mW/g



0 dB = 0.020mW/g

## RE\_Tilt\_CH6\_Slider on

**DUT: KAIS130; Type: WLAN802.11 g ; IMEI: 355757000000022**

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium: HEAD 2450 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 37.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

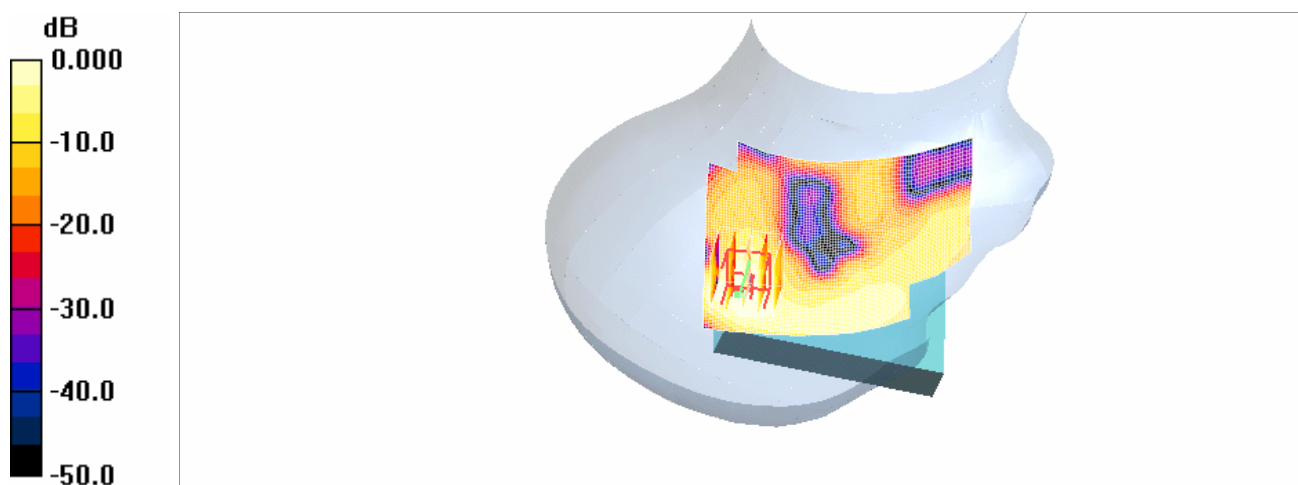
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**RE\_Tilt/Area Scan (71x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.023 mW/g

**RE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 3.24 V/m; Power Drift = 0.092 dB  
Peak SAR (extrapolated) = 0.035 W/kg

**SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00879 mW/g**  
Maximum value of SAR (measured) = 0.022 mW/g



0 dB = 0.022mW/g

## RE\_Tilt\_CH11\_Slider on

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium: HEAD 2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 37.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

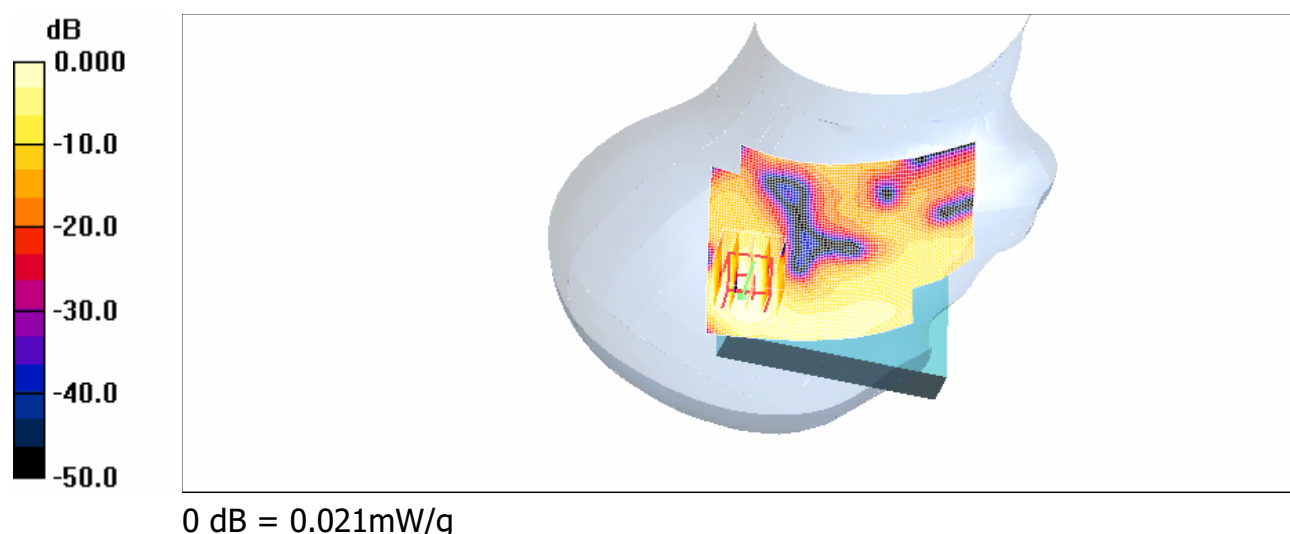
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**RE\_Tilt/Area Scan (71x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.022 mW/g

**RE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 3.05 V/m; Power Drift = 0.119 dB  
Peak SAR (extrapolated) = 0.037 W/kg

**SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.0086 mW/g**  
Maximum value of SAR (measured) = 0.021 mW/g



## LE\_Tilt\_CH1\_Slider on

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: HEAD 2450 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

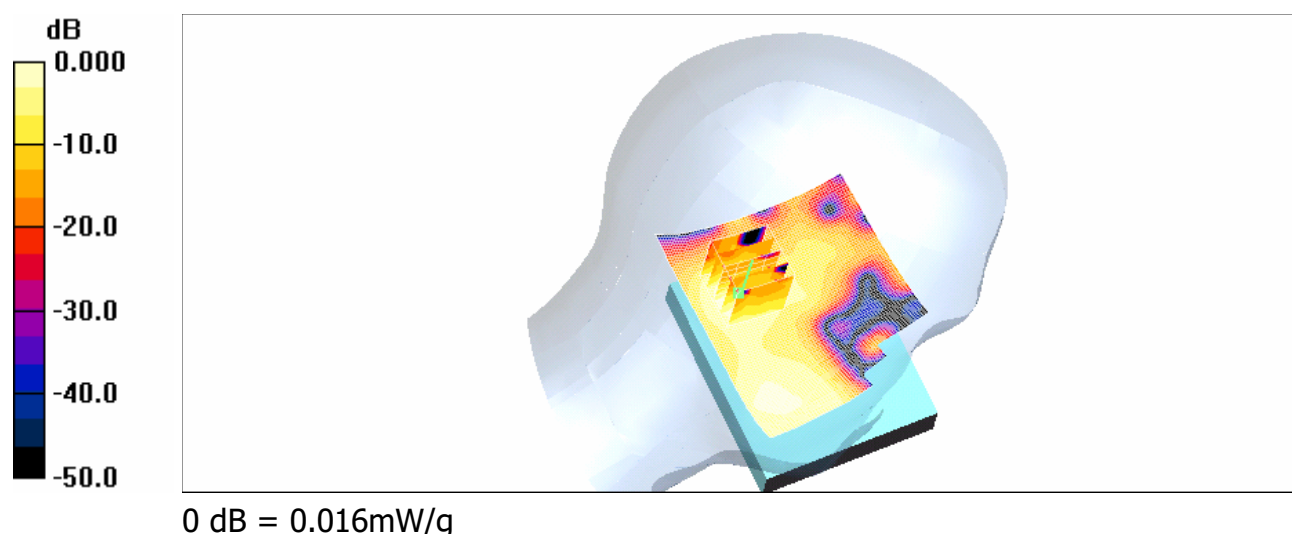
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**LE\_Tilt/Area Scan (71x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.015 mW/g

**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 2.59 V/m; Power Drift = 0.144 dB  
Peak SAR (extrapolated) = 0.026 W/kg

**SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00661 mW/g**  
Maximum value of SAR (measured) = 0.016 mW/g





## LE\_Tilt\_CH6\_Slider on

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium: HEAD 2450 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 37.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

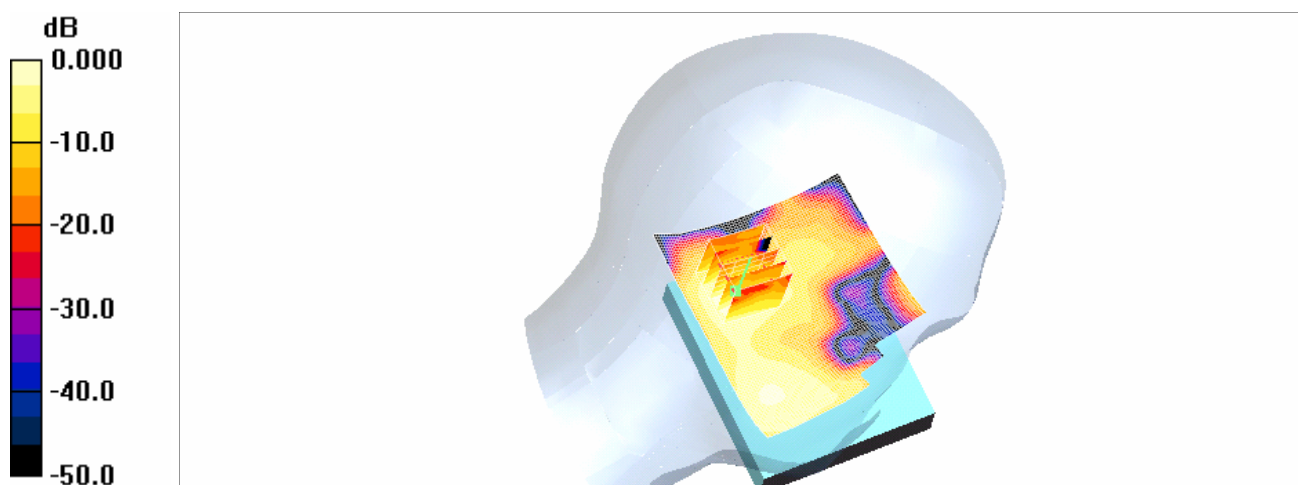
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**LE\_Tilt/Area Scan (71x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.022 mW/g

**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 3.05 V/m; Power Drift = 0.115 dB  
Peak SAR (extrapolated) = 0.044 W/kg

**SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.00954 mW/g**  
Maximum value of SAR (measured) = 0.023 mW/g



## LE\_Tilt\_CH11\_Slider on

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium: HEAD 2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 37.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

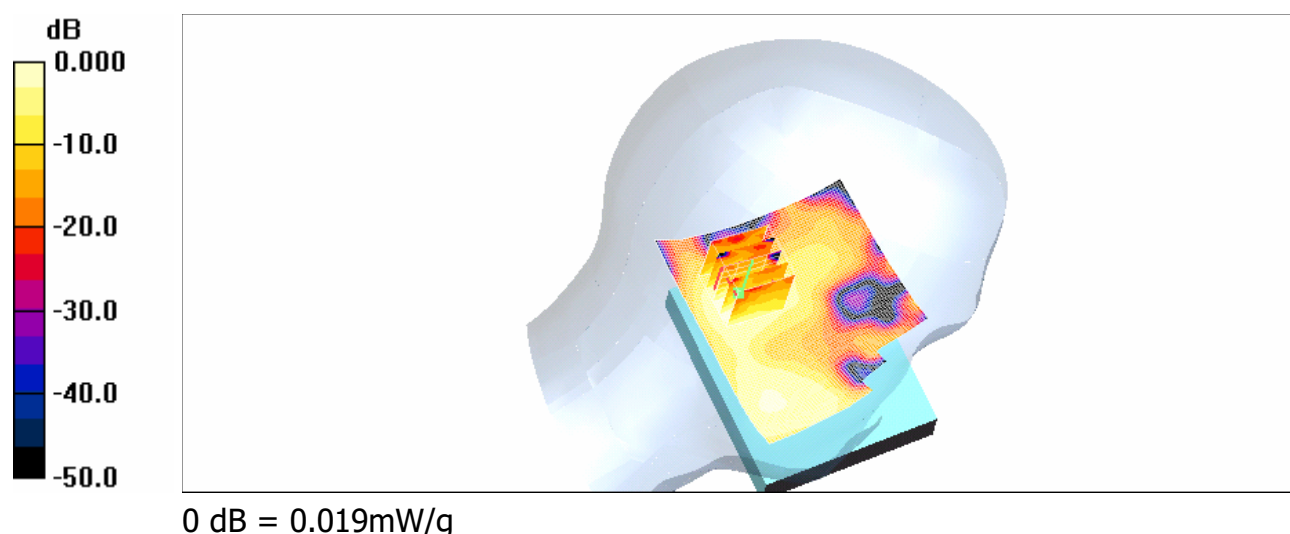
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**LE\_Tilt/Area Scan (71x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.021 mW/g

**LE\_Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 2.80 V/m; Power Drift = 0.188 dB  
Peak SAR (extrapolated) = 0.032 W/kg

**SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00793 mW/g**  
Maximum value of SAR (measured) = 0.019 mW/g



## RE\_Cheek\_CH11\_hold up

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

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

Medium: HEAD 2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 37.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**RE\_Cheek/Area Scan (81x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.014 mW/g

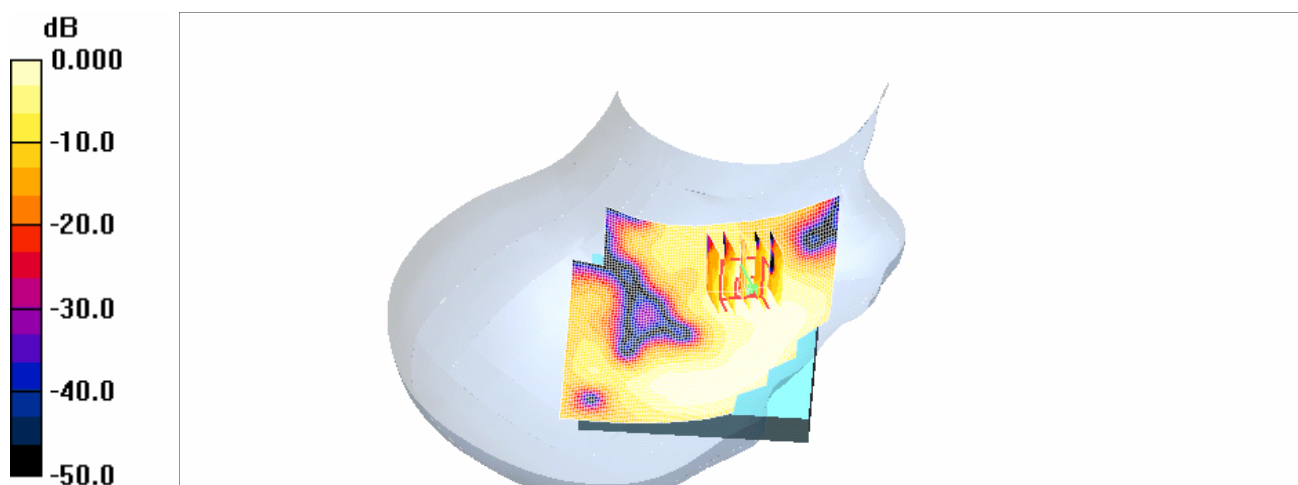
**RE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.05 V/m; Power Drift = 0.111 dB

Peak SAR (extrapolated) = 0.020 W/kg

**SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00609 mW/g**

Maximum value of SAR (measured) = 0.014 mW/g



## LE\_Cheek\_CH11\_hold up

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

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

Medium: HEAD 2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 37.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

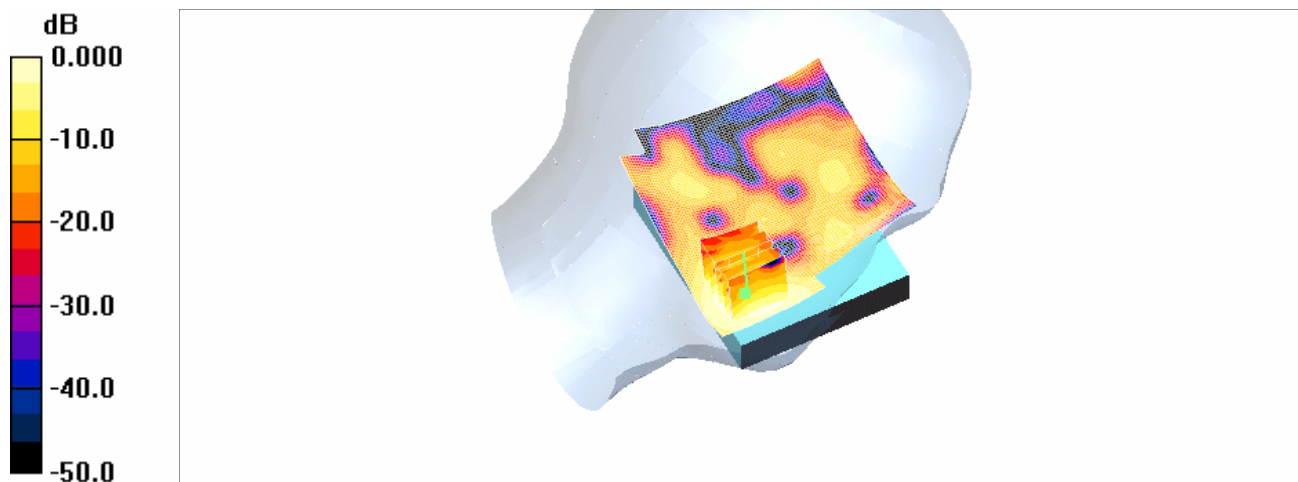
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**LE\_Cheek/Area Scan (81x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.028 mW/g

**LE\_Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 1.16 V/m; Power Drift = 0.170 dB  
Peak SAR (extrapolated) = 0.044 W/kg

**SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.012 mW/g**  
Maximum value of SAR (measured) = 0.025 mW/g



## BODY\_CH1

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium: Muscle 2450 Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 2.05$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

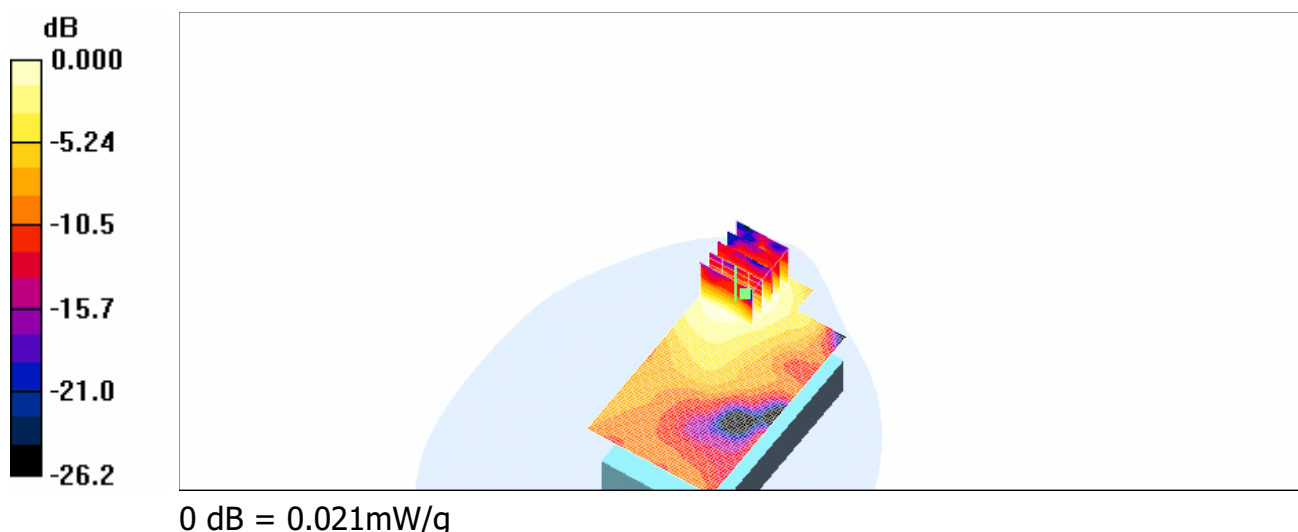
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 200 dcx7/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**BODY/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.022 mW/g

**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 1.10 V/m; Power Drift = 0.196 dB  
Peak SAR (extrapolated) = 0.035 W/kg

**SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.011 mW/g**  
Maximum value of SAR (measured) = 0.021 mW/g



## BODY\_CH6

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium: Muscle 2450 Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 2.09$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

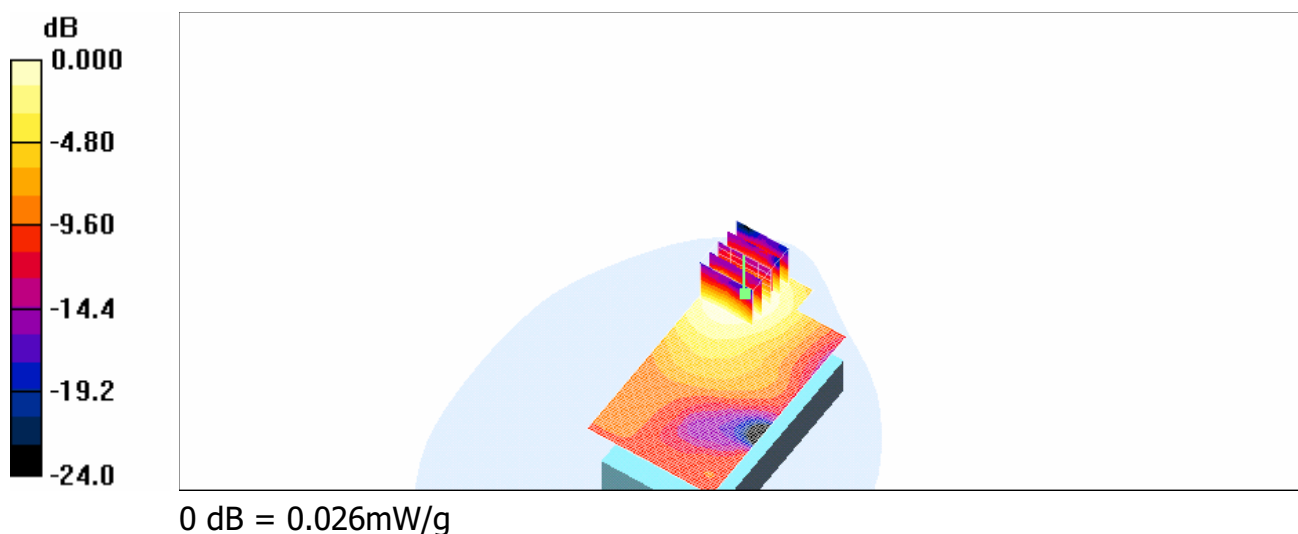
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**BODY/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.027 mW/g

**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 1.08 V/m; Power Drift = 0.044 dB  
Peak SAR (extrapolated) = 0.043 W/kg

**SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.014 mW/g**  
Maximum value of SAR (measured) = 0.026 mW/g



## BODY\_CH11

**DUT: KAIS130; Type: WLAN802.11 g; IMEI: 355757000000022**

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

Medium: Muscle 2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.1$  mho/m;  $\epsilon_r = 50.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

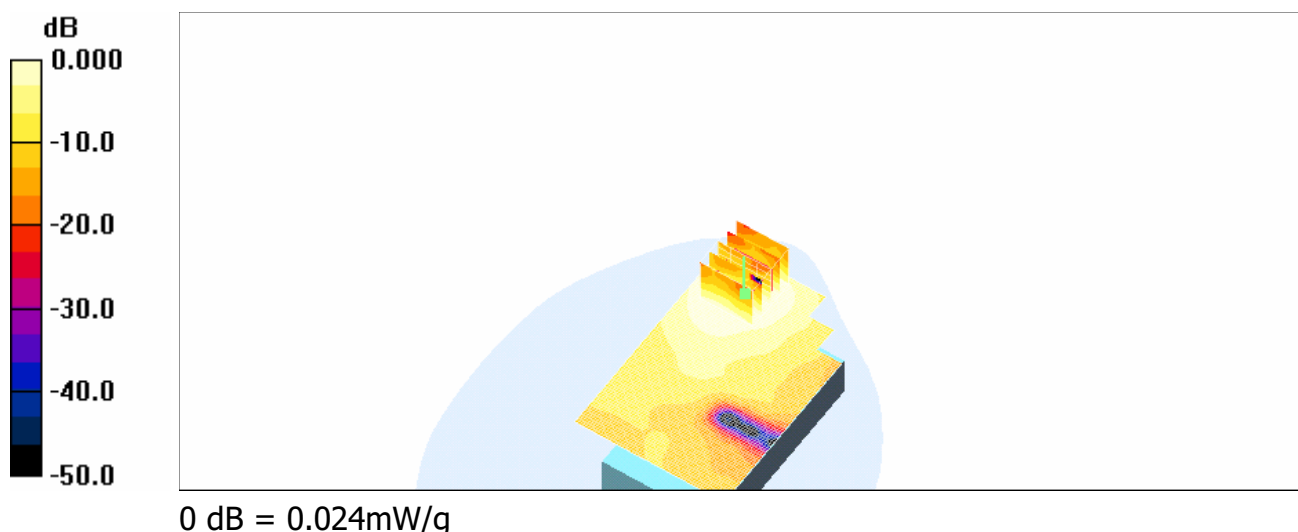
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**BODY/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.025 mW/g

**BODY/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 1.22 V/m; Power Drift = -0.168 dB  
Peak SAR (extrapolated) = 0.040 W/kg

**SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.013 mW/g**  
Maximum value of SAR (measured) = 0.024 mW/g



## 5. System Verification

Date/Time: 2008/2/4 02:32:18

### DUT: Dipole 900 MHz; Type: D900V2; Serial: SN:168

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

Medium: Head 900 MHz Medium parameters used:  $f = 900$  MHz;  $\sigma = 0.956$  mho/m;  $\epsilon_r = 42.2$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2007/10/1
- 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=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 2.78 mW/g

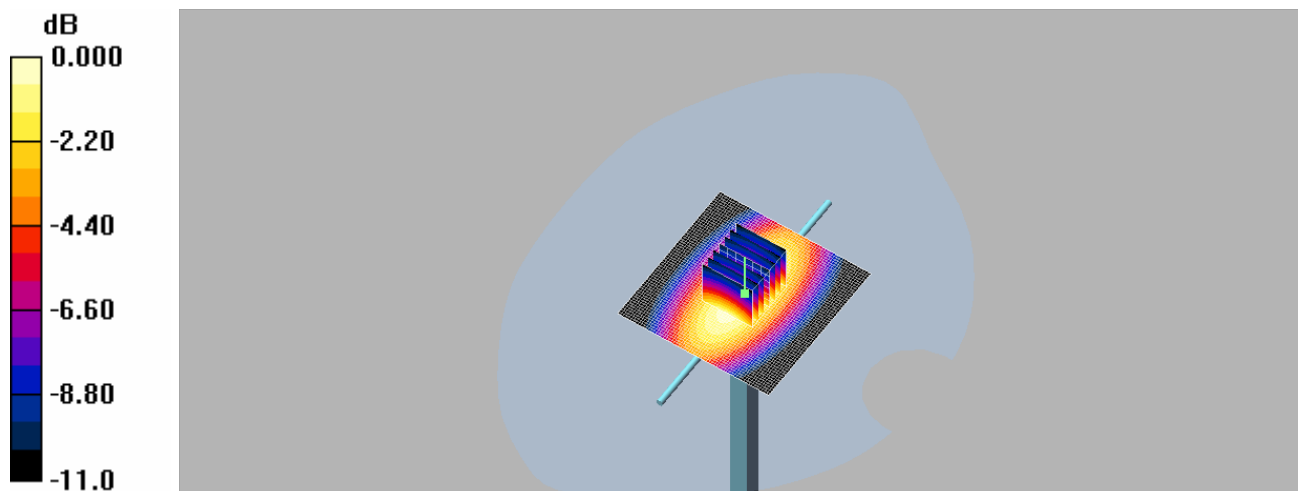
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm,  
dy=5mm, dz=5mm

Reference Value = 54.1 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 3.96 W/kg

**SAR(1 g) = 2.56 mW/g; SAR(10 g) = 1.64 mW/g**

Maximum value of SAR (measured) = 2.77 mW/g



0 dB = 2.77mW/g



**DUT: Dipole 900 MHz; Type: D900V2; Serial: SN:168**

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1  
Medium: Muscle 900 MHz Medium parameters used:  $f = 900$  MHz;  $\sigma = 1.07$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

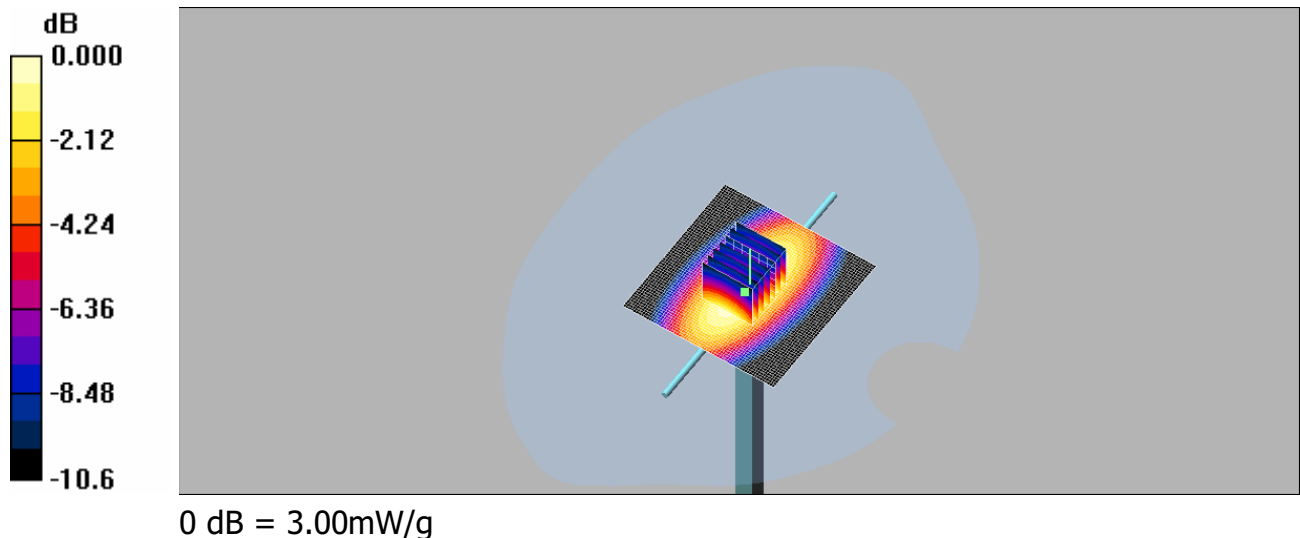
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2007/10/1
- 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=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 3.01 mW/g

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 53.0 V/m; Power Drift = -0.010 dB  
Peak SAR (extrapolated) = 4.17 W/kg

**SAR(1 g) = 2.70 mW/g; SAR(10 g) = 1.79 mW/g**  
Maximum value of SAR (measured) = 3.00 mW/g



**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:  $f = 900 \text{ MHz}$ ;  $\sigma = 1.06 \text{ mho/m}$ ;  $\epsilon_r = 54.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

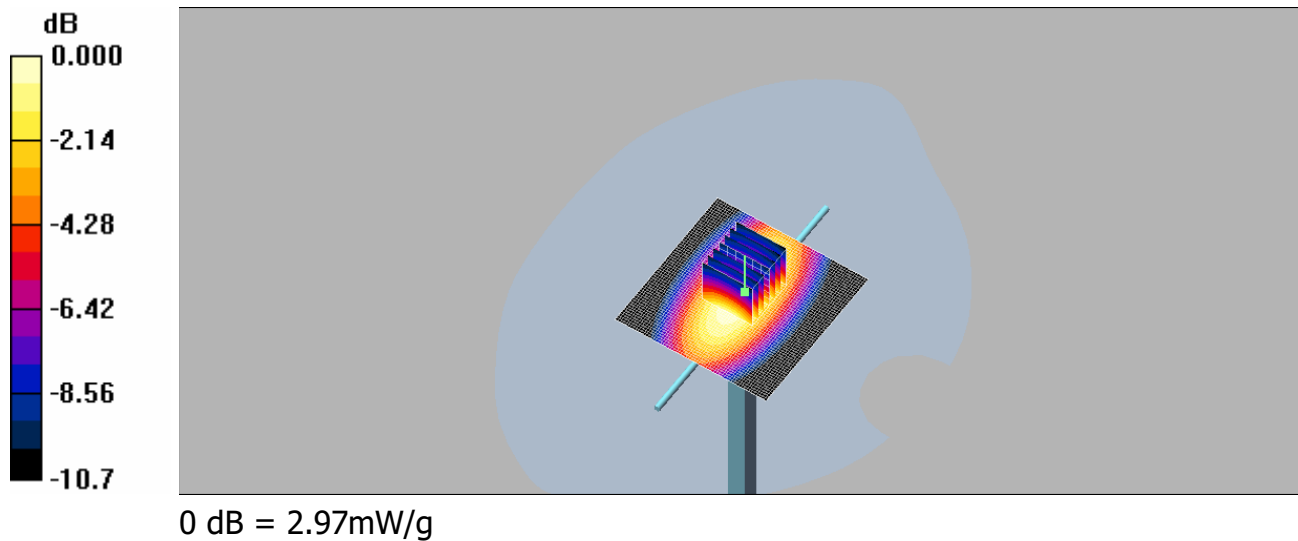
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2007/10/1
- 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) = 2.99 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 = 52.4 V/m; Power Drift = -0.014 dB  
Peak SAR (extrapolated) = 4.16 W/kg

**SAR(1 g) = 2.69 mW/g; SAR(10 g) = 1.74 mW/g**  
Maximum value of SAR (measured) = 2.97 mW/g



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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium: Head 1900MHz Medium parameters used:  $f = 1900.4$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

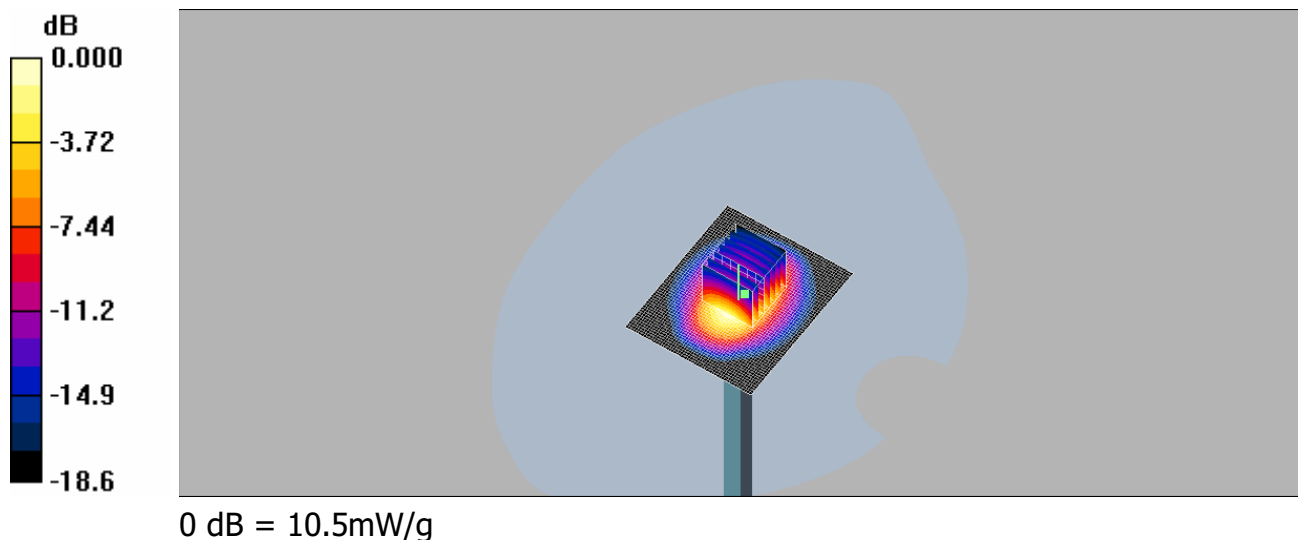
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2007/10/1
- 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) = 12.4 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 = -0.007 dB  
Peak SAR (extrapolated) = 17.8 W/kg

**SAR(1 g) = 9.44 mW/g; SAR(10 g) = 4.81 mW/g**  
Maximum value of SAR (measured) = 10.5 mW/g



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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium: Head 1900MHz Medium parameters used:  $f = 1900.4$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 40.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

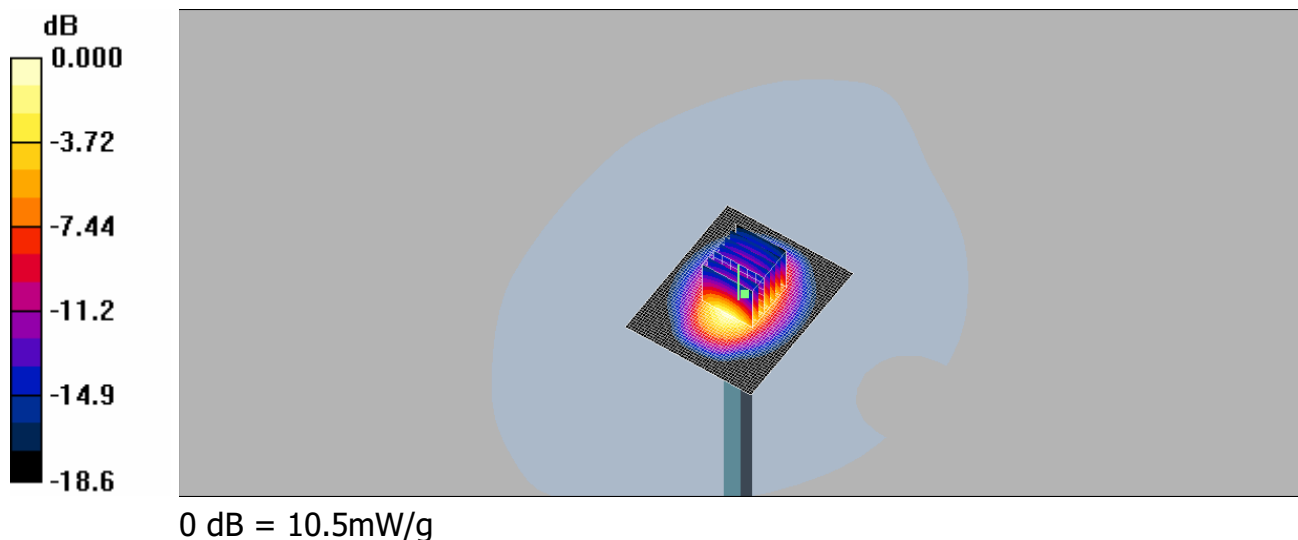
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2007/10/1
- 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) = 12.4 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 = -0.015 dB  
Peak SAR (extrapolated) = 17.8 W/kg

**SAR(1 g) = 9.43 mW/g; SAR(10 g) = 4.81 mW/g**  
Maximum value of SAR (measured) = 10.5 mW/g



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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium: M1800 & 1900 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.6$  mho/m;  $\epsilon_r = 55$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

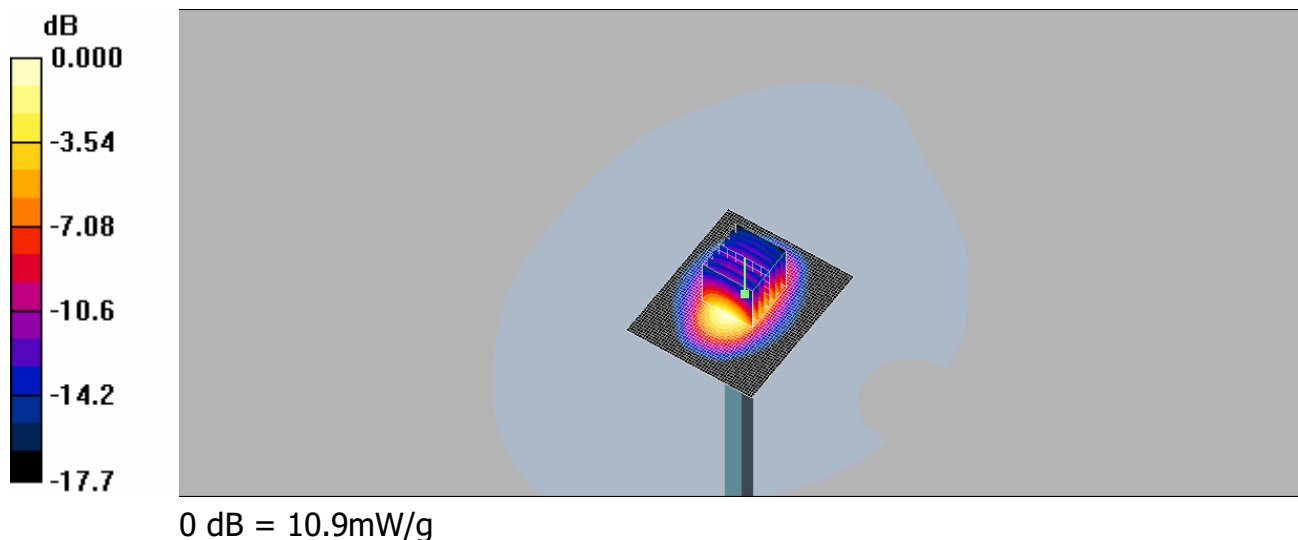
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2007/10/1
- 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) = 13.4 mW/g

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 84.1 V/m; Power Drift = -0.040 dB  
Peak SAR (extrapolated) = 17.9 W/kg

**SAR(1 g) = 9.86 mW/g; SAR(10 g) = 5.14 mW/g**  
Maximum value of SAR (measured) = 10.9 mW/g



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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium: M1800 & 1900 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 54.9$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2007/10/1
- 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) = 12.7 mW/g

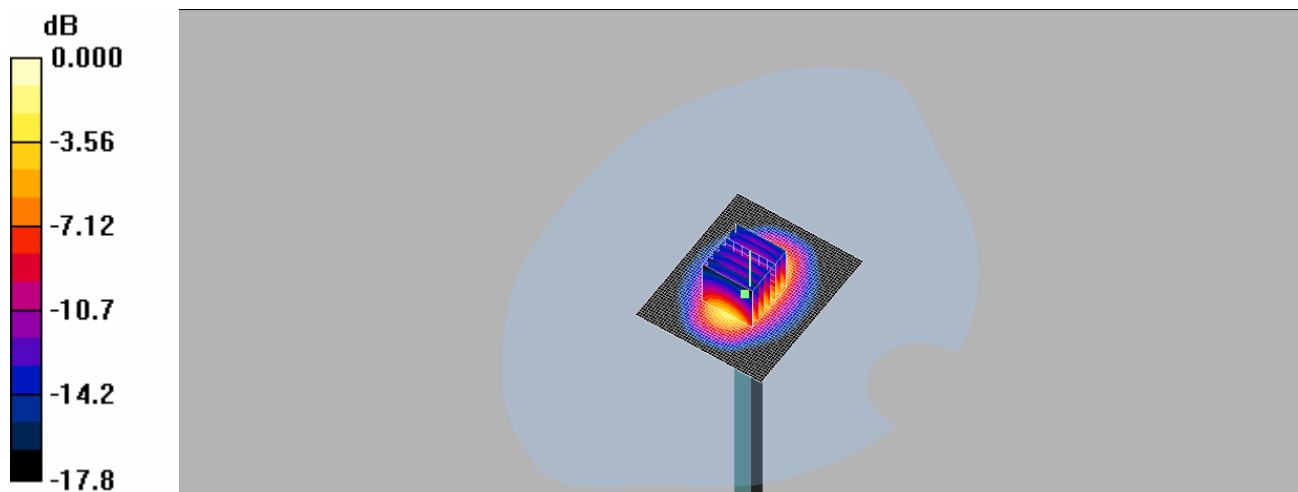
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm,  
dy=5mm, dz=5mm

Reference Value = 83.2 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 17.4 W/kg

**SAR(1 g) = 9.57 mW/g; SAR(10 g) = 5 mW/g**

Maximum value of SAR (measured) = 10.8 mW/g



0 dB = 10.8mW/g

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium: 2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

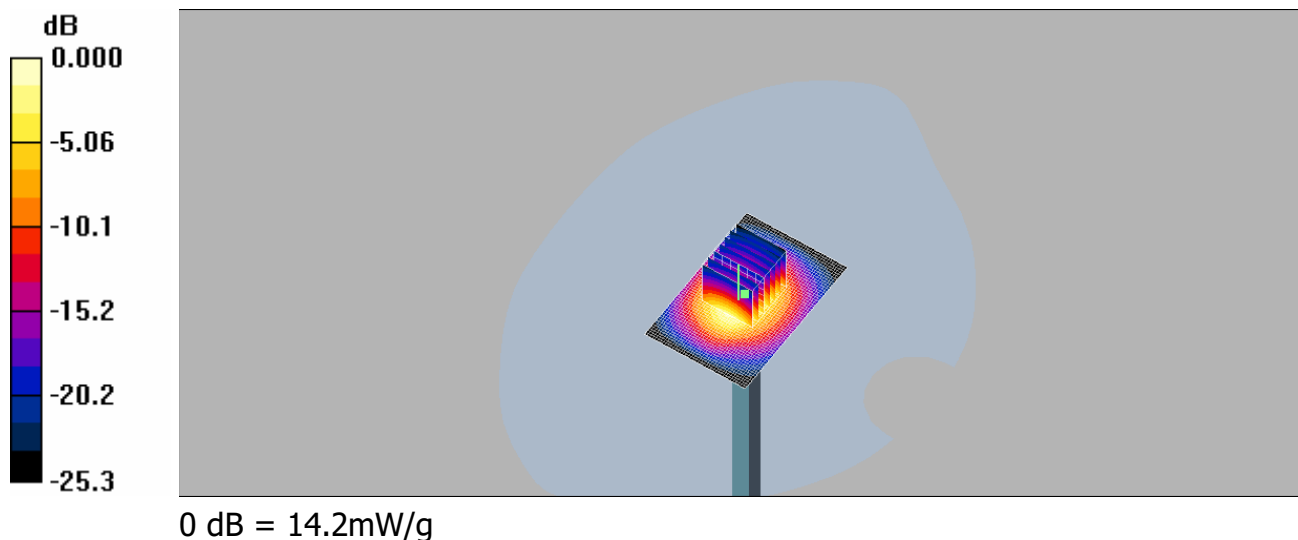
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2007/10/1
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**250mW/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 15.1 mW/g

**250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 88.2 V/m; Power Drift = -0.019 dB  
Peak SAR (extrapolated) = 29.3 W/kg

**SAR(1 g) = 13.2 mW/g; SAR(10 g) = 5.74 mW/g**  
Maximum value of SAR (measured) = 14.2 mW/g



**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium: 2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.84$  mho/m;  $\epsilon_r = 40.0$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

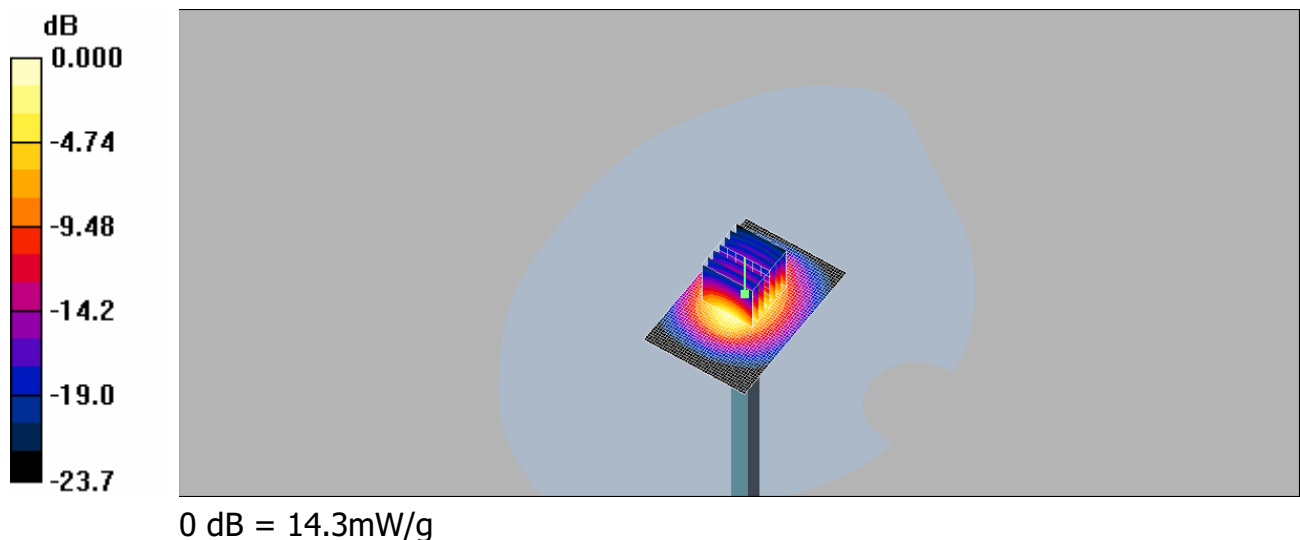
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2007/10/1
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**250mW/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 16.6 mW/g

**250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 84.7 V/m; Power Drift = -0.125 dB  
Peak SAR (extrapolated) = 28.2 W/kg

**SAR(1 g) = 13.3 mW/g; SAR(10 g) = 5.9 mW/g**  
Maximum value of SAR (measured) = 14.3 mW/g





**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium: 2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

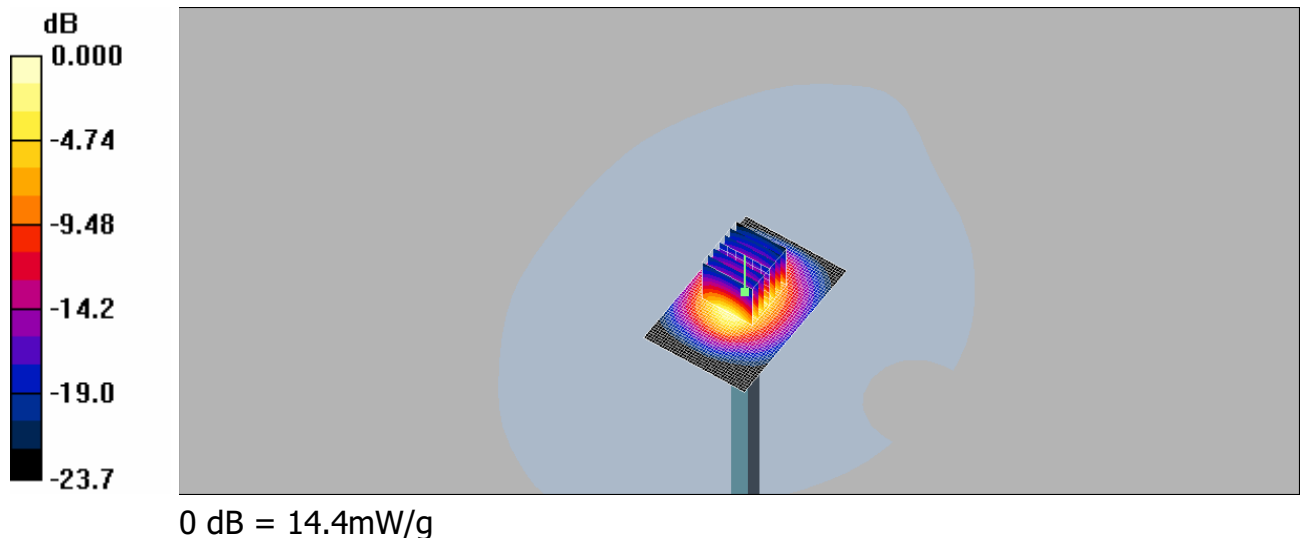
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2007/10/1
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**250mW/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 16.6 mW/g

**250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 84.8 V/m; Power Drift = -0.124 dB  
Peak SAR (extrapolated) = 28.3 W/kg

**SAR(1 g) = 13.2 mW/g; SAR(10 g) = 5.89 mW/g**  
Maximum value of SAR (measured) = 14.4 mW/g



**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium: M2450 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

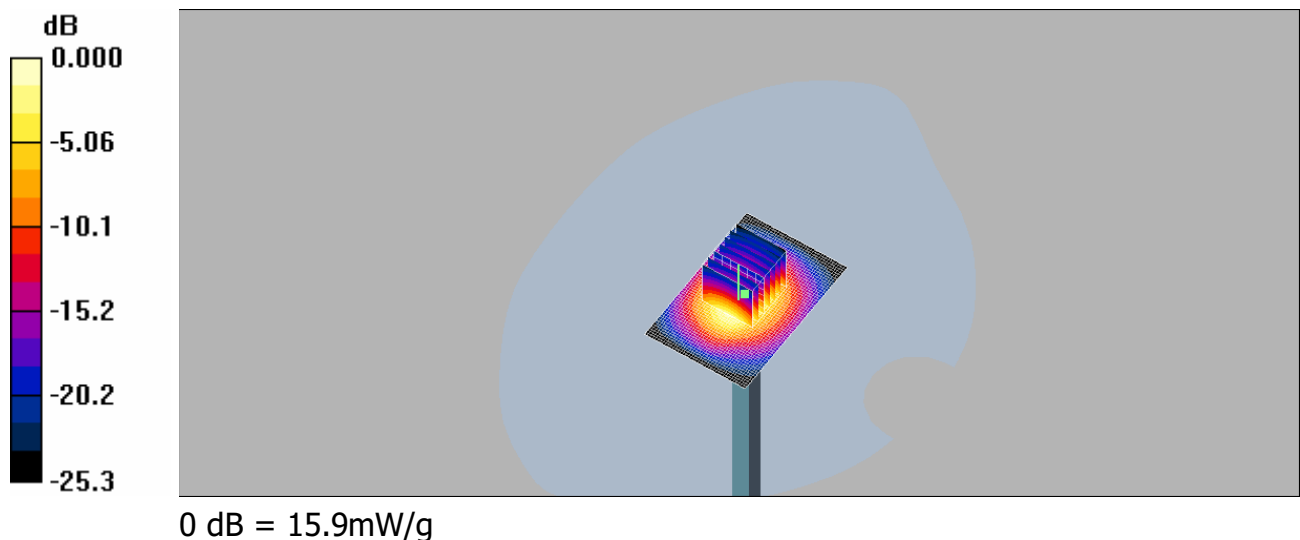
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2007/10/1
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**250mW/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 16.9 mW/g

**250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 90.0 V/m; Power Drift = -0.019 dB  
Peak SAR (extrapolated) = 32.7 W/kg

**SAR(1 g) = 14.3 mW/g; SAR(10 g) = 6.38 mW/g**  
Maximum value of SAR (measured) = 15.9 mW/g



**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium: M 2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

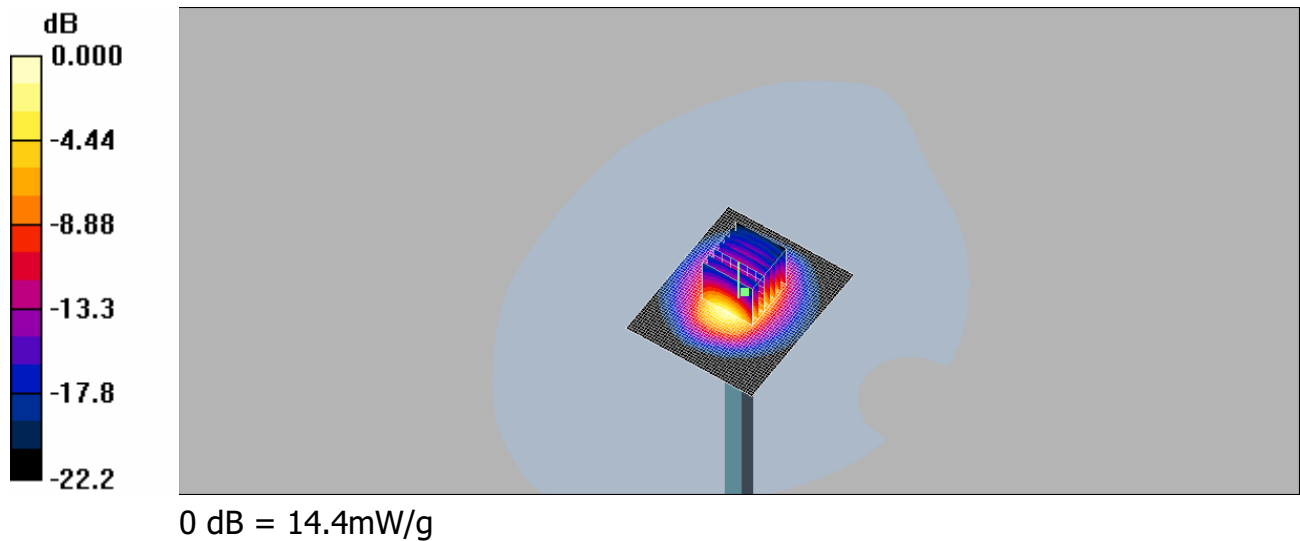
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2007/10/1
- 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) = 16.5 mW/g

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 84.0 V/m; Power Drift = -0.047 dB  
Peak SAR (extrapolated) = 31.6 W/kg

**SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.3 mW/g**  
Maximum value of SAR (measured) = 14.4 mW/g



**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:  $f = 900 \text{ MHz}$ ;  $\sigma = 0.974 \text{ mho/m}$ ;  $\epsilon_r = 41.9$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

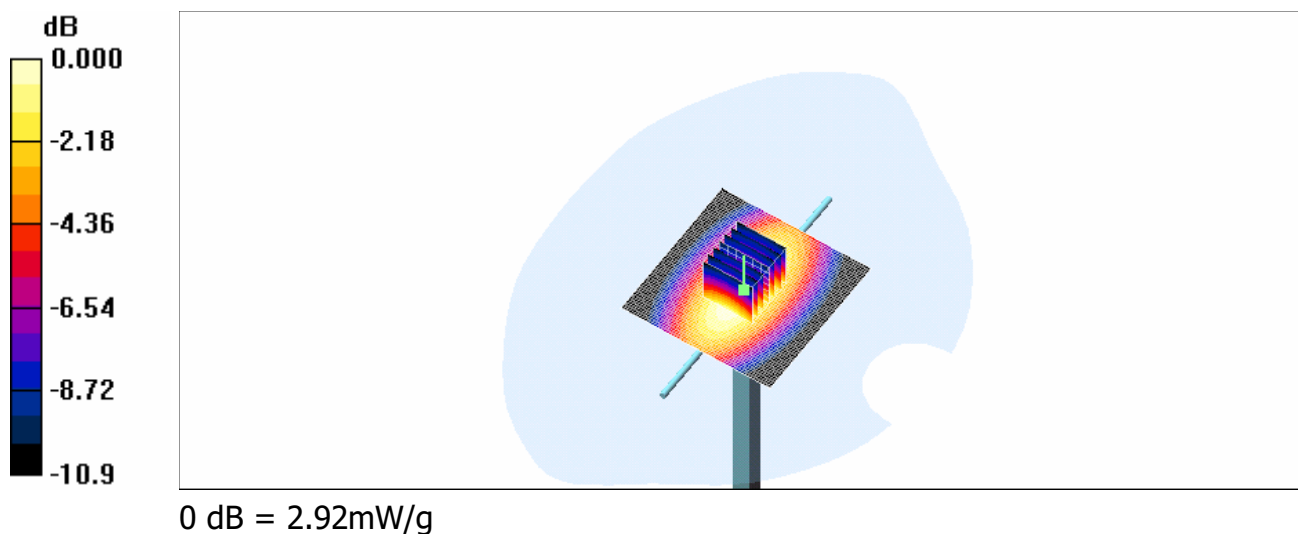
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Pin=250mW/Area Scan (61x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 2.99 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 = 56.1 V/m; Power Drift = -0.271 dB  
Peak SAR (extrapolated) = 4.09 W/kg

**SAR(1 g) = 2.7 mW/g; SAR(10 g) = 1.74 mW/g**  
Maximum value of SAR (measured) = 2.92 mW/g



**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:  $f = 900 \text{ MHz}$ ;  $\sigma = 1.02 \text{ mho/m}$ ;  $\epsilon_r = 55.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

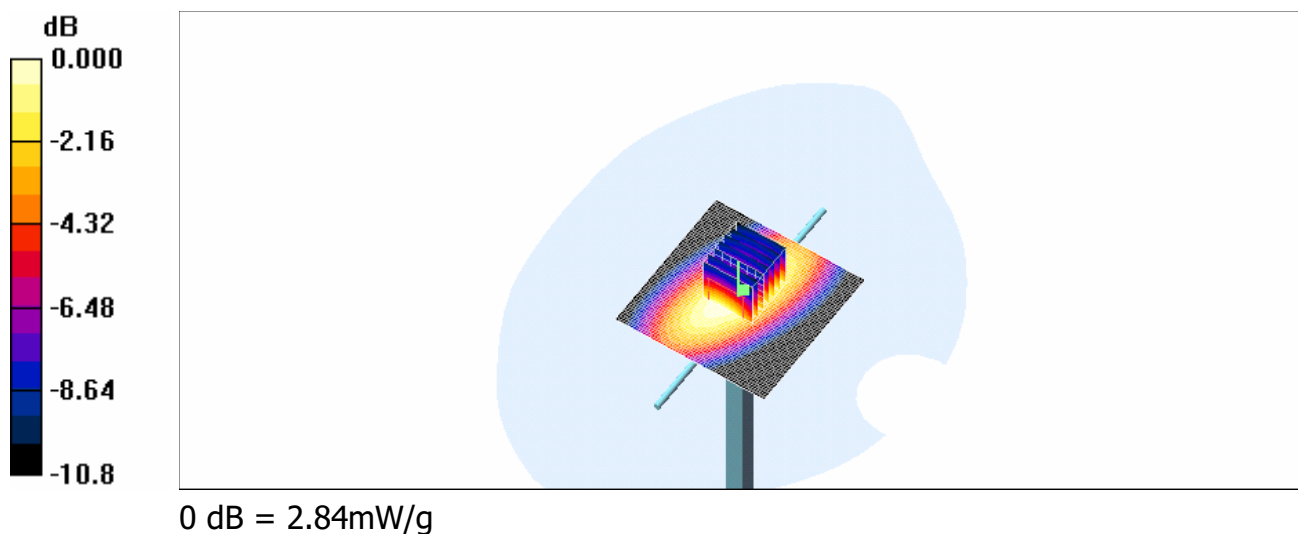
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Pin=250mW/Area Scan (61x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 2.88 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 = 52.5 V/m; Power Drift = -0.118 dB  
Peak SAR (extrapolated) = 3.98 W/kg

**SAR(1 g) = 2.64 mW/g; SAR(10 g) = 1.72 mW/g**  
Maximum value of SAR (measured) = 2.84 mW/g



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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium: Head 1900MHz Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

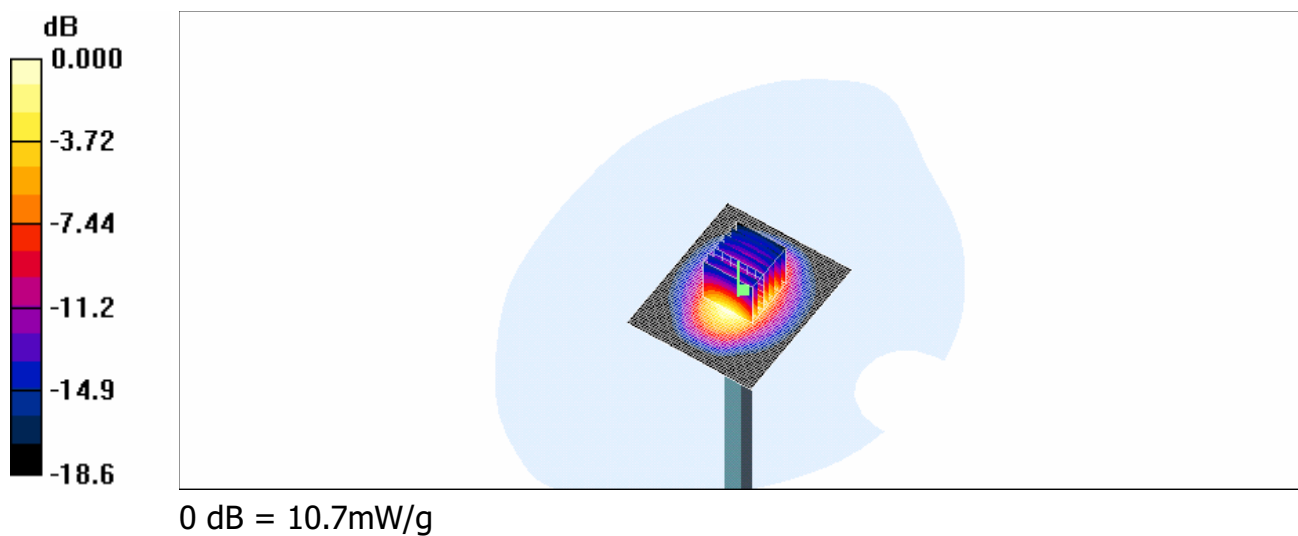
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Pin=250mw/Area Scan (51x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 12.5 mW/g

**Pin=250mw/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 86.4 V/m; Power Drift = -0.032 dB  
Peak SAR (extrapolated) = 18.0 W/kg

**SAR(1 g) = 9.53 mW/g; SAR(10 g) = 4.87 mW/g**  
Maximum value of SAR (measured) = 10.7 mW/g



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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium: Muscle 1900 Medium parameters used (interpolated):  $f = 1900$  MHz;  $\sigma = 1.6$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

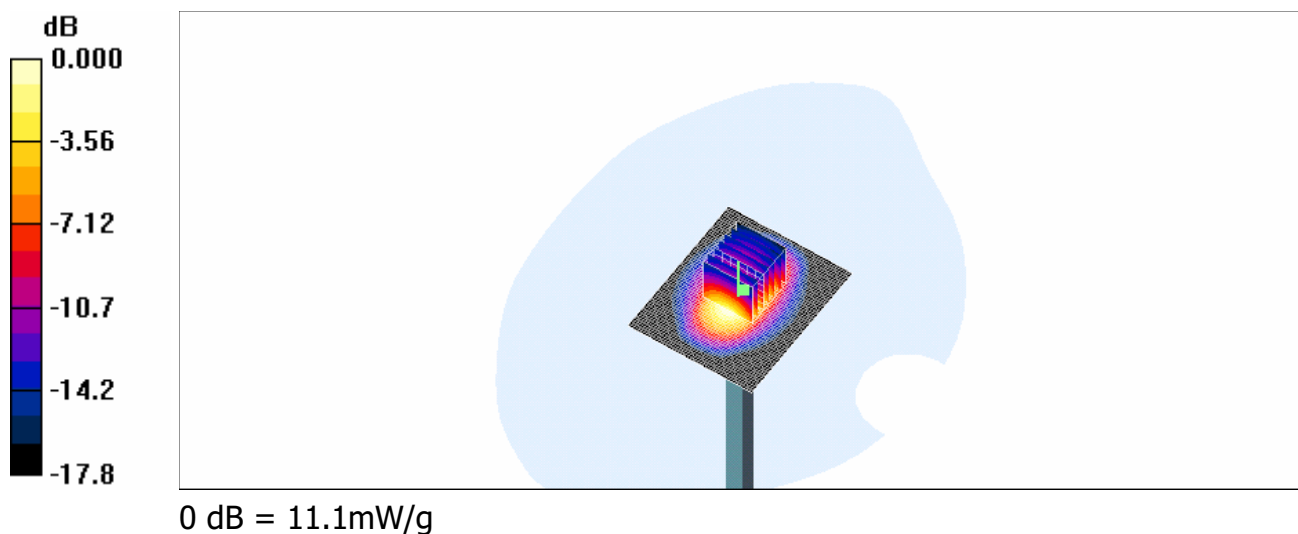
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Pin=250mW/Area Scan (51x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 13.5 mW/g

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 83.3 V/m; Power Drift = -0.025 dB  
Peak SAR (extrapolated) = 18.0 W/kg

**SAR(1 g) = 9.89 mW/g; SAR(10 g) = 5.15 mW/g**  
Maximum value of SAR (measured) = 11.1 mW/g



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

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium: Head 2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.9$  mho/m;  $\epsilon_r = 37.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

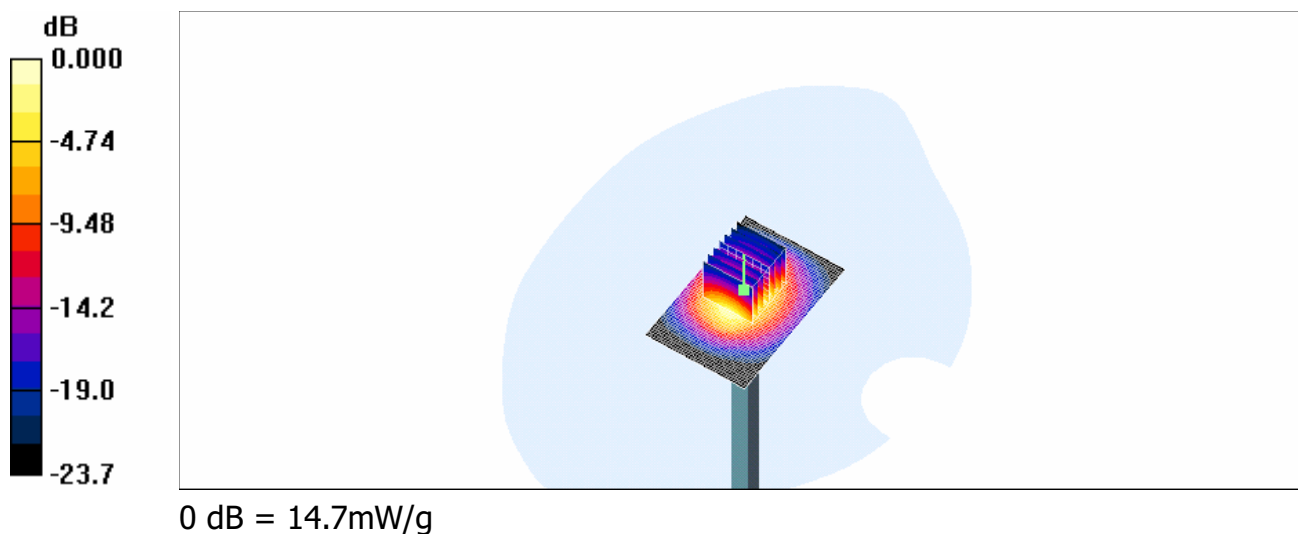
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Pin=250mW/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 17.1 mW/g

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 84.8 V/m; Power Drift = -0.125 dB  
Peak SAR (extrapolated) = 29.0 W/kg

**SAR(1 g) = 13.2 mW/g; SAR(10 g) = 6.03 mW/g**  
Maximum value of SAR (measured) = 14.7 mW/g





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

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1  
Medium: Muscle 2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.09$  mho/m;  $\epsilon_r = 50.8$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

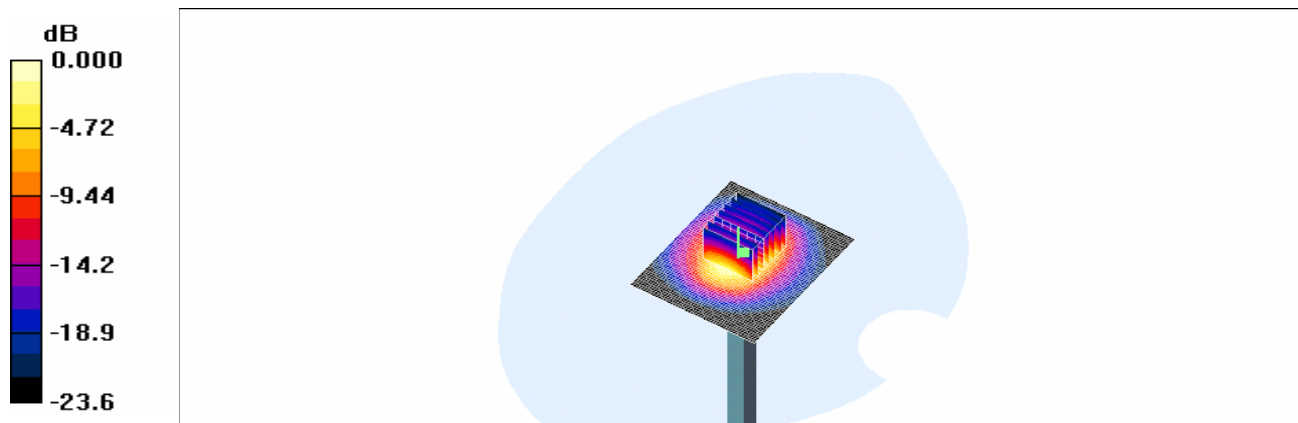
DASY4 Configuration:

- Probe: EX3DV3 - SN3526; Calibrated: 2007/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2007/4/20
- Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**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 = 81.2 V/m; Power Drift = -0.027 dB  
Peak SAR (extrapolated) = 29.2 W/kg

**SAR(1 g) = 13.5 mW/g; SAR(10 g) = 6.19 mW/g**  
Maximum value of SAR (measured) = 15.0 mW/g



0 dB = 15.0mW/g

## 6.DAE & Probe Calibration certificate

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



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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: **DAE4-547\_Oct07**

### 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: **October 1, 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
Fluke Process Calibrator Type 702	SN: 6295803	13-Oct-06 (Elcal AG, No: 5492)	Oct-07
Keithley Multimeter Type 2001	SN: 0810278	03-Oct-06 (Elcal AG, No: 5478)	Oct-07

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 **Dominique Steffen** Function **Technician** Signature *D. Steffen*

Approved by: Name **Fin Bomholt** Function **R&D Director** Signature *Fin Bomholt*

Issued: October 1, 2007

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Accreditation No.: **SCS 108**

Client **Auden**

Certificate No: **DAE4-679\_Apr07**

**CALIBRATION CERTIFICATE**

Object **DAE4 - SD 000 D04 BA - SN: 679**

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

Calibration date: **April 20, 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
Fluke Process Calibrator Type 702	SN: 6295803	13-Oct-06 (Elcal AG, No: 5492)	Oct-07
Keithley Multimeter Type 2001	SN: 0810278	03-Oct-06 (Elcal AG, No: 5478)	Oct-07
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Calibrator Box V1.1	SE UMS 006 AB 1002	15-Jun-06 (SPEAG, in house check)	In house check Jun-07

	Name	Function	Signature
Calibrated by:	Eric Hainfeld	Technician	
Approved by:	Fin Bomholt	R&D Director	

Issued: April 20, 2007

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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	US37390585	18-Oct-01 (SPEAG, in house check Oct-06)	In house check: Oct-07

Calibrated by: **Katja Pokovic** (Name), **Technical Manager** (Function), *[Signature]* (Signature)

Approved by: **Niels Kuster** (Name), **Quality Manager** (Function), *[Signature]* (Signature)

Issued: August 29, 2007

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Accreditation No.: **SCS 108**

**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:**

- 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
- 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.

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 DASYS Systems

(Note: non-compatible with DASYS2 system!)

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

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

<b>TSL</b>	<b>900 MHz</b>	<b>Typical SAR gradient: 5 % per mm</b>		
	Sensor Center to Phantom Surface Distance		<b>2.0 mm</b>	<b>3.0 mm</b>
	SAR <sub>be</sub> [%] Without Correction Algorithm		1.5	0.5
	SAR <sub>be</sub> [%] With Correction Algorithm		0.3	0.4
<b>TSL</b>	<b>1810 MHz</b>	<b>Typical SAR gradient: 10 % per mm</b>		
	Sensor Center to Phantom Surface Distance		<b>2.0 mm</b>	<b>3.0 mm</b>
	SAR <sub>be</sub> [%] Without Correction Algorithm		3.0	1.5
	SAR <sub>be</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).

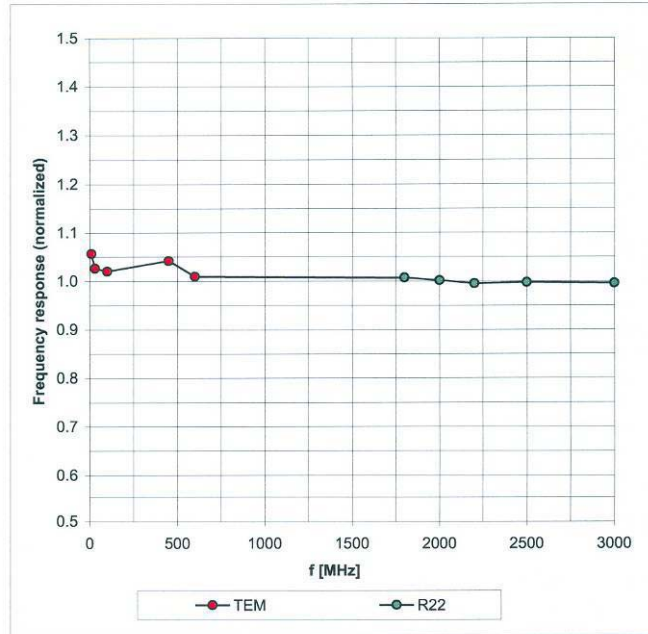
<sup>B</sup> Numerical linearization parameter: uncertainty not required.

EX3DV3 SN:3526

August 29, 2007

### Frequency Response of E-Field

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



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