

## GPRS 850

Frequency: 824.2 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.939$  S/m;  $\epsilon_r = 56.186$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Front/GPRS850 Band\_4Slot/CH128/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.924 W/kg

**Front/GPRS850 Band\_4Slot/CH128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

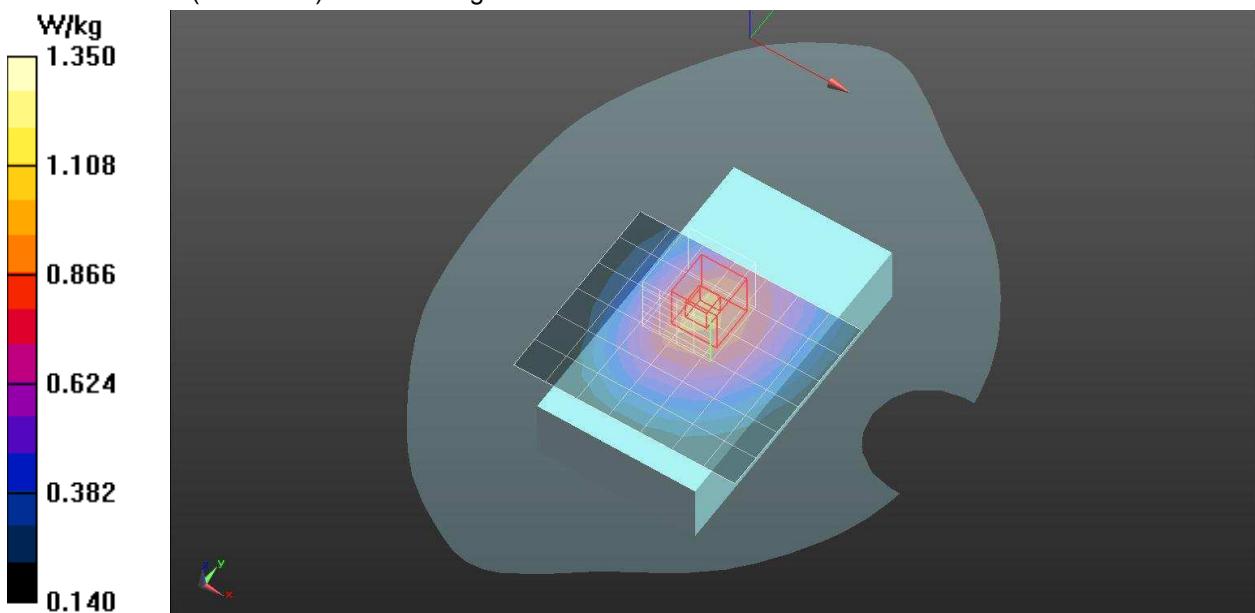
Reference Value = 33.85 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.782 W/kg; SAR(10 g) = 0.594 W/kg**

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.952 W/kg



## GPRS 850

Frequency: 824.2 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.939$  S/m;  $\epsilon_r = 56.186$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge1 /GPRS850 Band\_4Slot/CH128/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.260 W/kg

**Edge/Edge1 /GPRS850 Band\_4Slot/CH128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

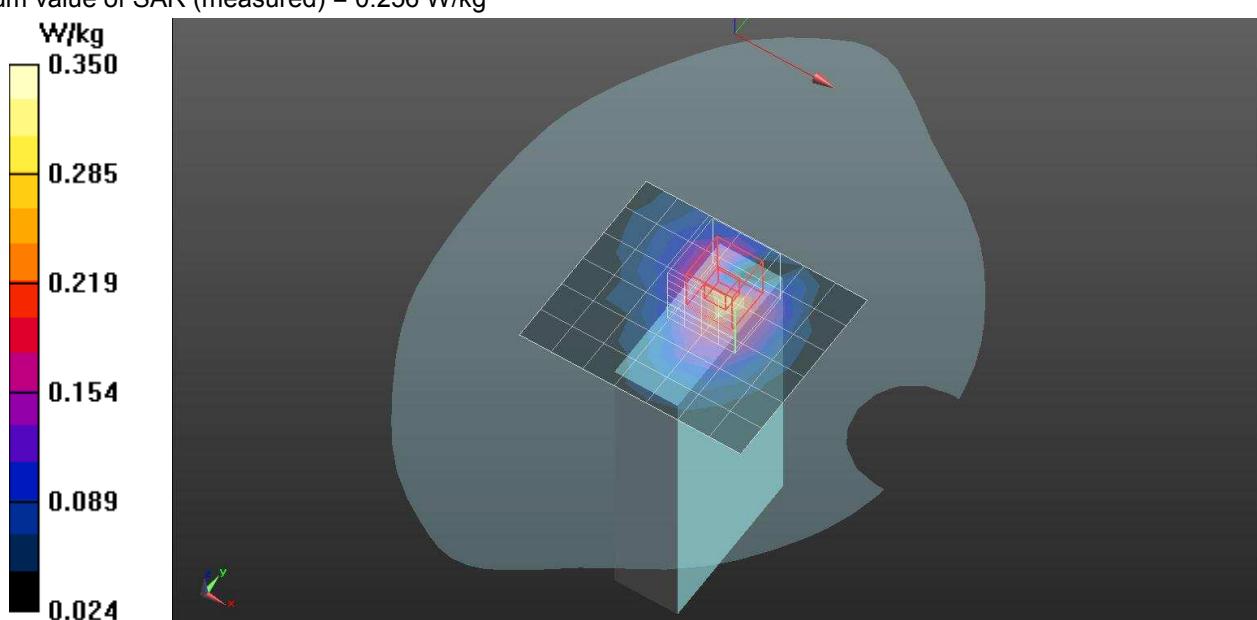
Reference Value = 14.82 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.297 W/kg

**SAR(1 g) = 0.193 W/kg; SAR(10 g) = 0.132 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.256 W/kg



## GPRS 850

Frequency: 824.2 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.939$  S/m;  $\epsilon_r = 56.186$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge2/GPRS850 Band\_4Slot/CH128/Area Scan (6x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.50 W/kg

**Edge/Edge2/GPRS850 Band\_4Slot/CH128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

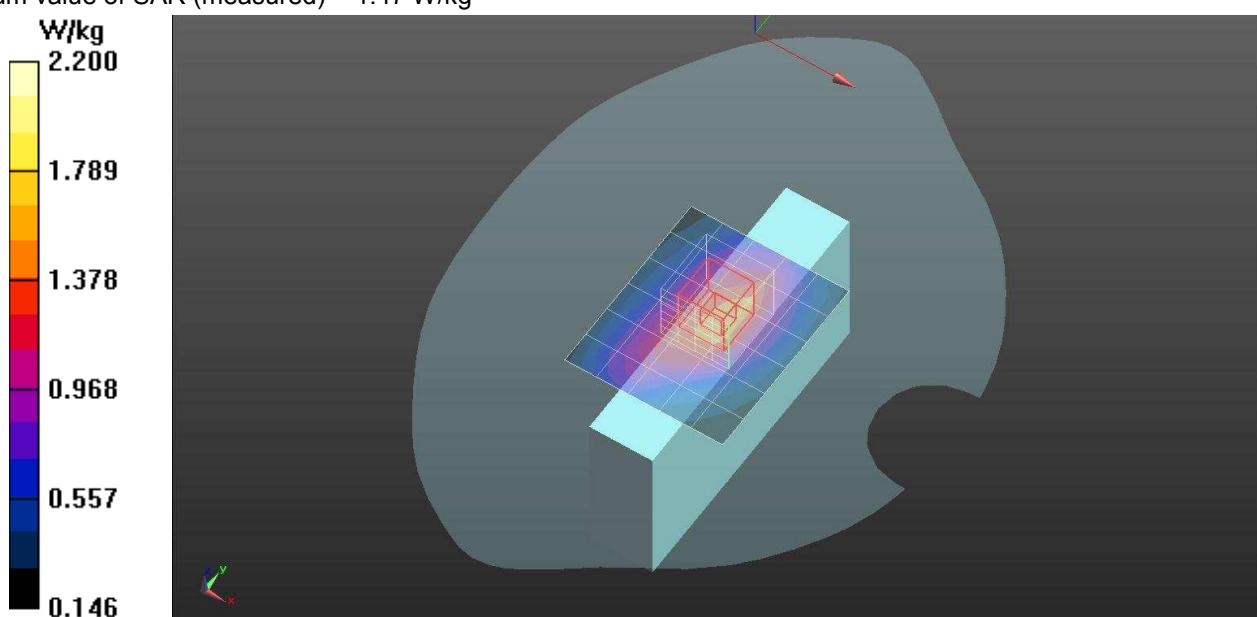
Reference Value = 43.07 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.66 W/kg

**SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.824 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.47 W/kg



## GPRS 850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  S/m;  $\epsilon_r = 56.067$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge2/GPRS850 Band\_4Slot/CH190/Area Scan (6x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.29 W/kg

**Edge/Edge2/GPRS850 Band\_4Slot/CH190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

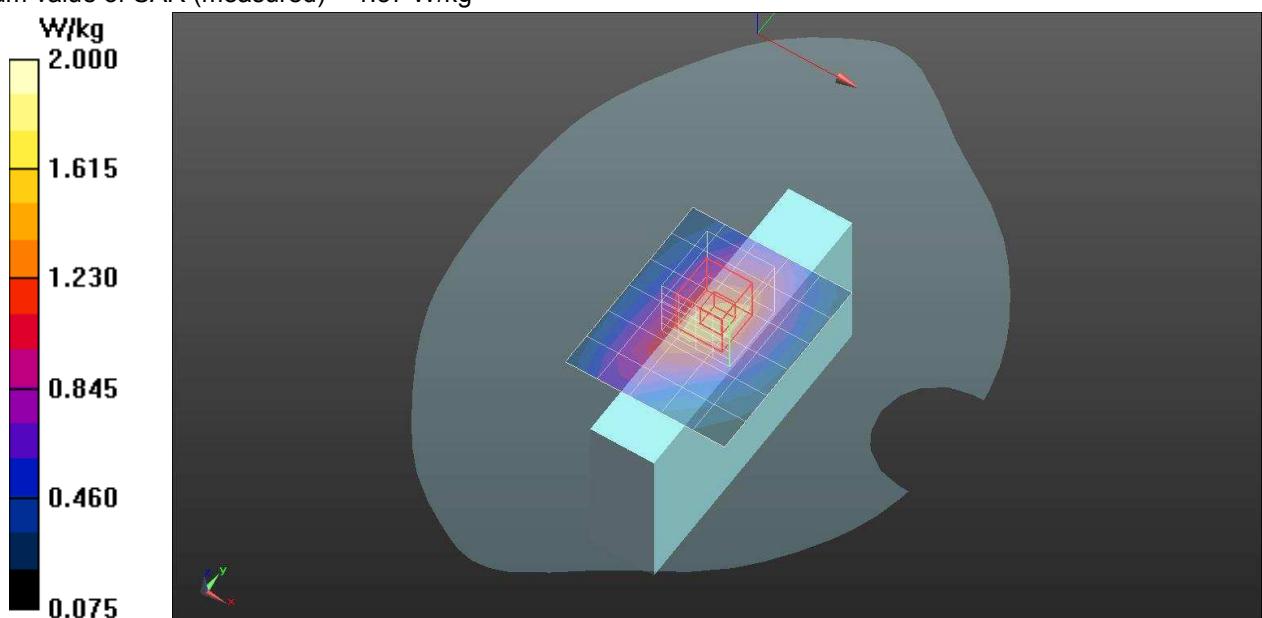
Reference Value = 40.31 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.733 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.37 W/kg



## GPRS 850

Frequency: 848.8 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
 Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.964$  S/m;  $\epsilon_r = 55.98$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge2/GPRS850 Band\_4Slot/CH251/Area Scan (6x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.08 W/kg

**Edge/Edge2/GPRS850 Band\_4Slot/CH251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

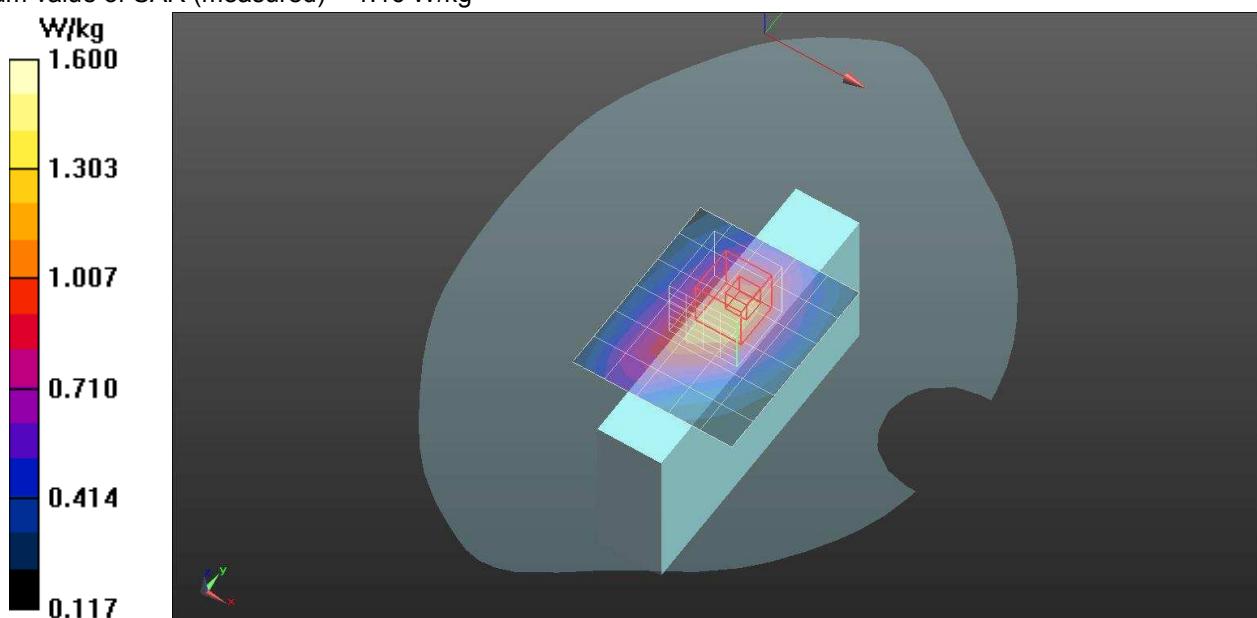
Reference Value = 37.12 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.894 W/kg; SAR(10 g) = 0.632 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.16 W/kg



## GPRS 850

Frequency: 824.2 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.959$  S/m;  $\epsilon_r = 57.331$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge3/GPRS850 Band\_4Slot/CH128/Area Scan (6x7x1):** Measurement grid: dx=15mm, dy=15mm

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.237 W/kg

**Edge/Edge3/GPRS850 Band\_4Slot/CH128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

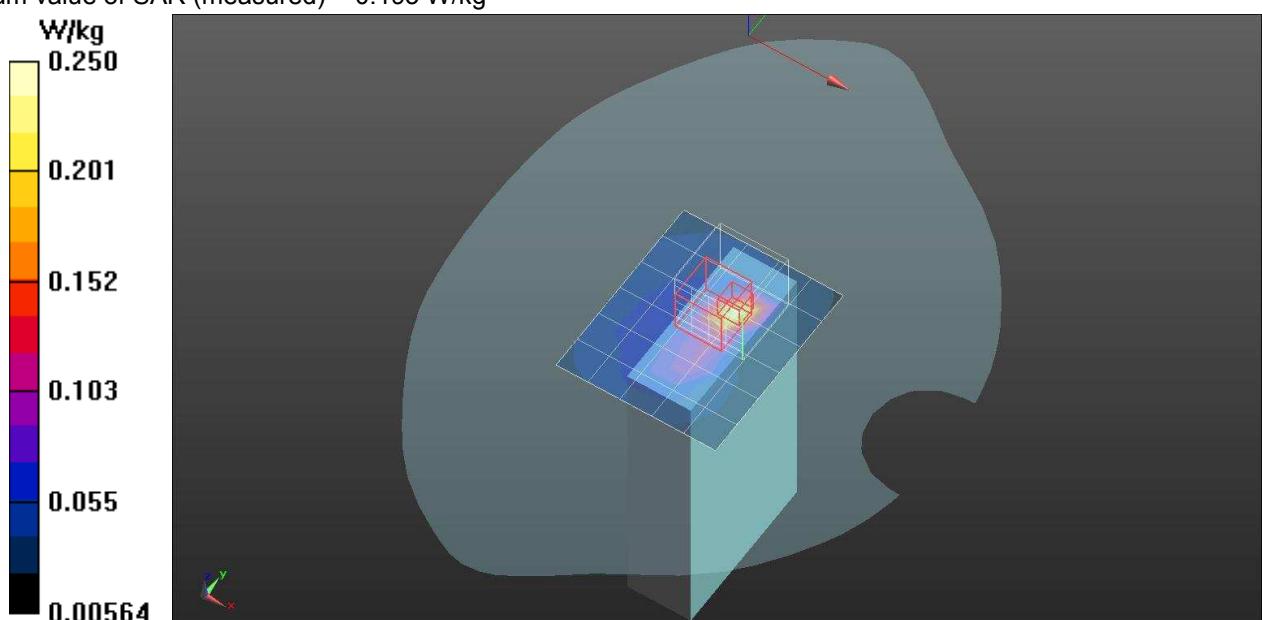
Reference Value = 10.44 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.260 W/kg

**SAR(1 g) = 0.088 W/kg; SAR(10 g) = 0.047 W/kg**

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.195 W/kg



## GPRS 850

Frequency: 824.2 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.959$  S/m;  $\epsilon_r = 57.331$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge4/GPRS850 Band\_4Slot/CH128/Area Scan (6x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.496 W/kg

**Edge/Edge4/GPRS850 Band\_4Slot/CH128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

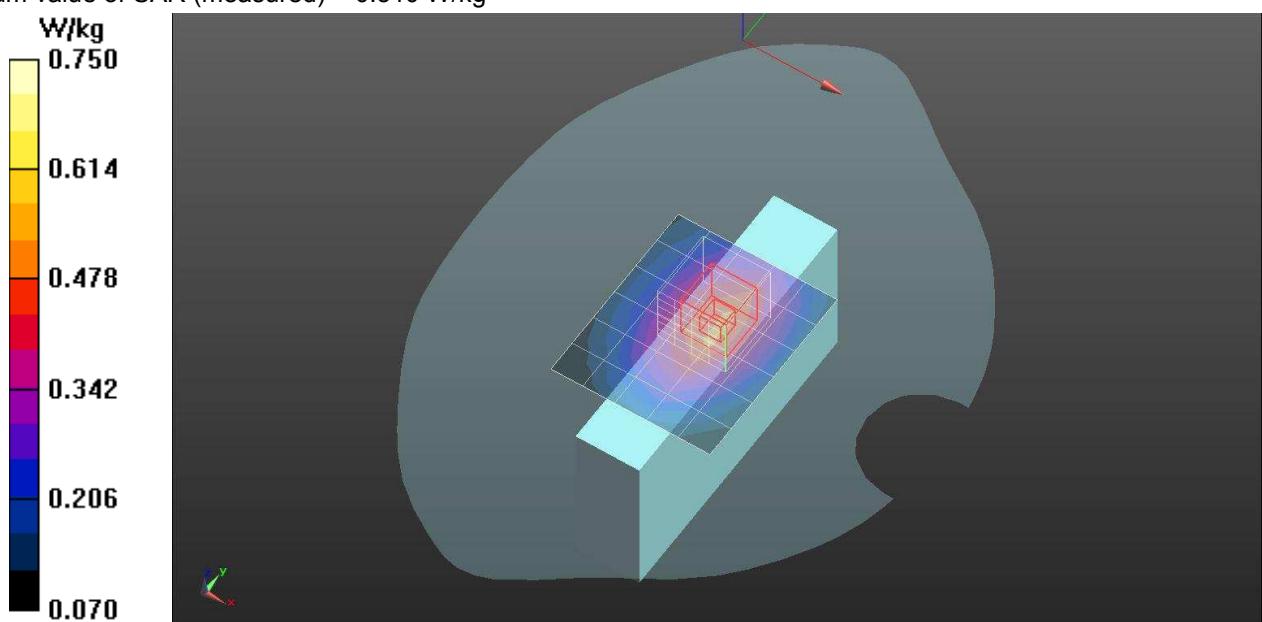
Reference Value = 24.61 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.568 W/kg

**SAR(1 g) = 0.406 W/kg; SAR(10 g) = 0.294 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.510 W/kg



## GPRS 850

Frequency: 824.2 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.939$  S/m;  $\epsilon_r = 56.186$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Rear/Rear Side/GPRS850 Band\_4Slot/CH128/Area Scan (8x7x1):** Measurement grid: dx=15mm,

dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.29 W/kg

**Rear/Rear Side/GPRS850 Band\_4Slot/CH128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

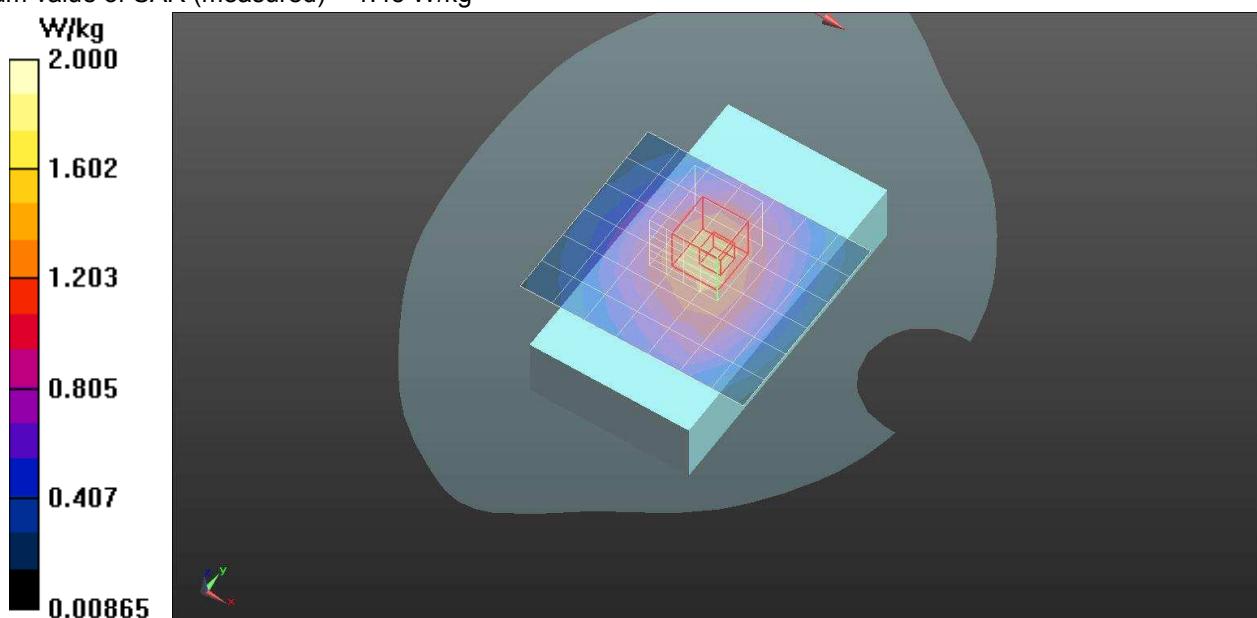
Reference Value = 39.87 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.82 W/kg

**SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.842 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.45 W/kg



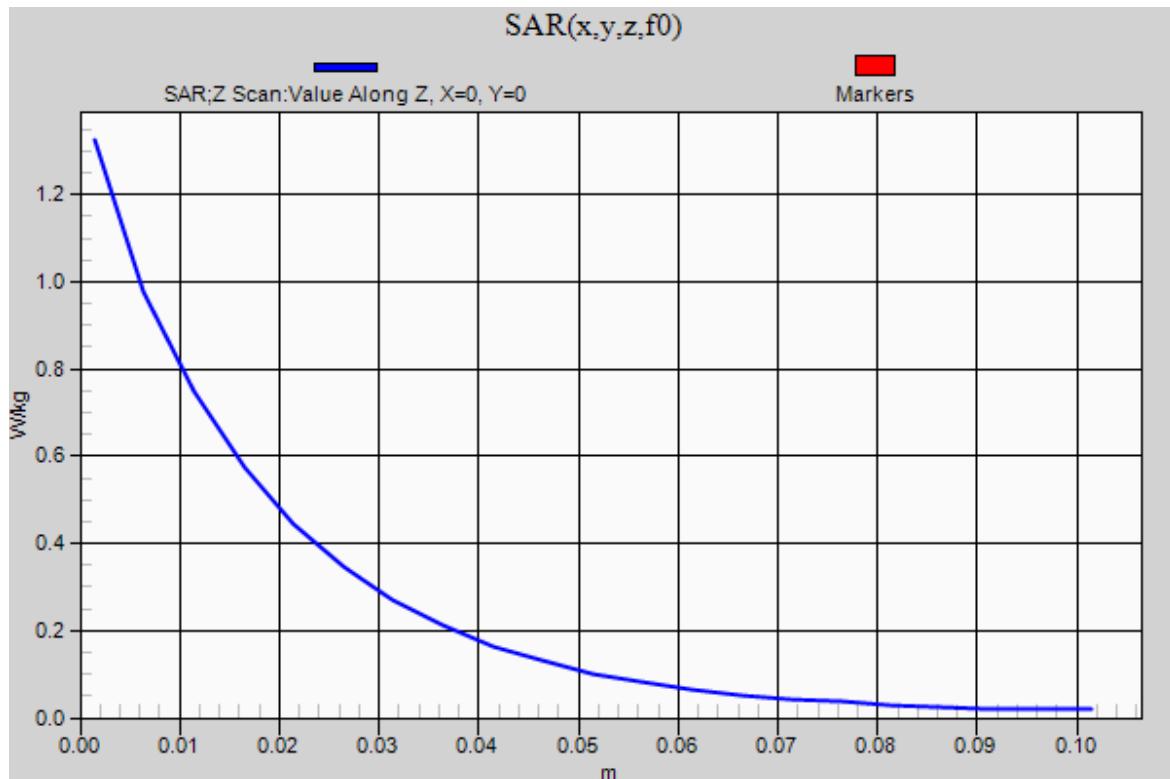
## GPRS 850

Frequency: 824.2 MHz; Duty Cycle: 1:2.09894

**Rear/Rear Side/GPRS850 Band\_4Slot/CH128/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.32 W/kg



## GPRS 850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  S/m;  $\epsilon_r = 56.067$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Rear/Rear Side/GPRS850 Band\_4Slot/CH190/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.47 W/kg

**Rear/Rear Side/GPRS850 Band\_4Slot/CH190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

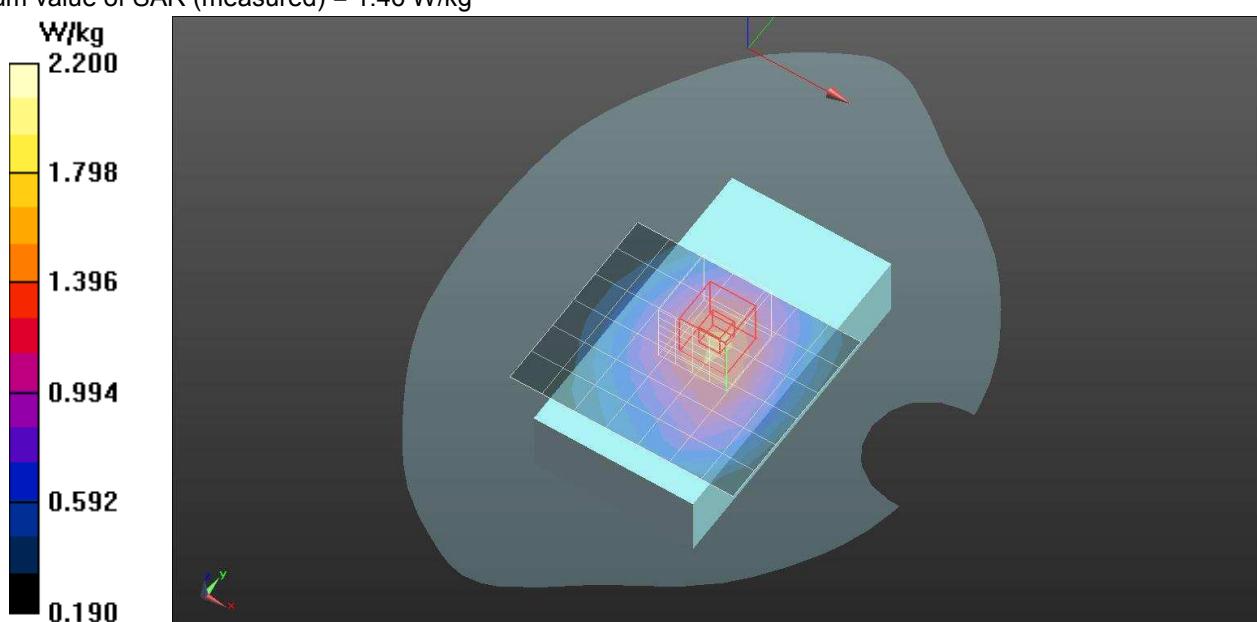
Reference Value = 41.28 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.64 W/kg

**SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.876 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.46 W/kg



## GPRS 850

Frequency: 848.8 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.964$  S/m;  $\epsilon_r = 55.98$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Rear/Rear Side/GPRS850 Band\_4Slot/CH251/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.26 W/kg

**Rear/Rear Side/GPRS850 Band\_4Slot/CH251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

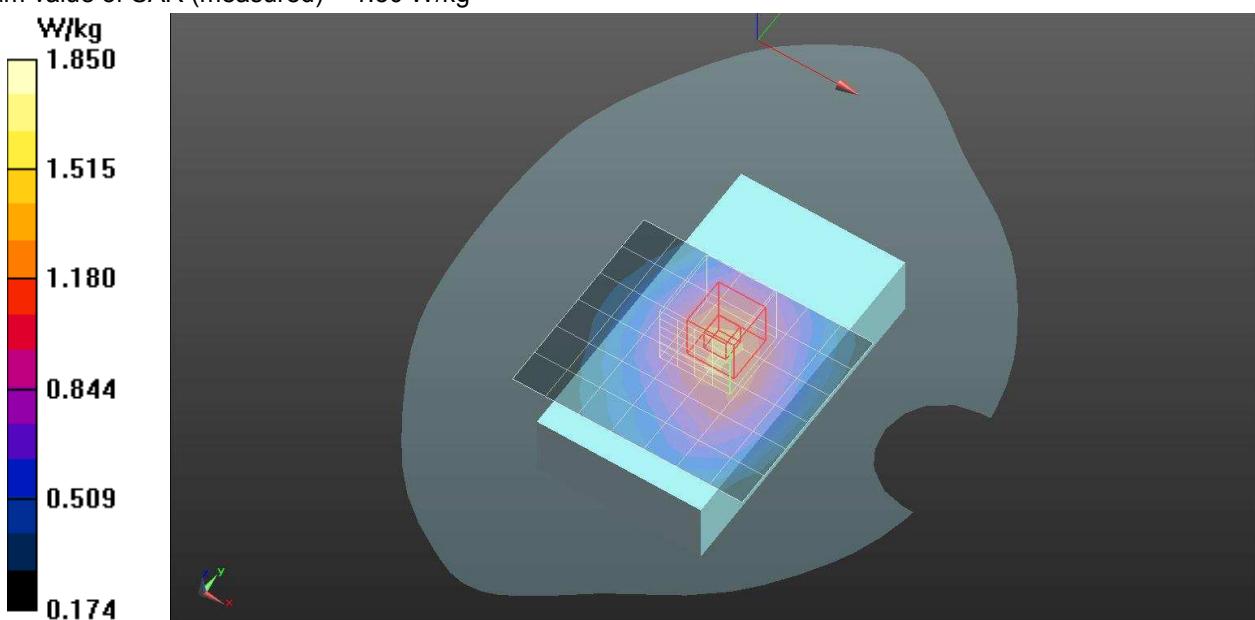
Reference Value = 37.64 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.44 W/kg

**SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.770 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.30 W/kg



## GPRS 850

Frequency: 824.2 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.939$  S/m;  $\epsilon_r = 56.186$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Rear/Rear Side/GPRS850 Band\_4Slot/CH128\_Repeat/Area Scan (8x7x1):** Measurement grid:  
 $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.33 W/kg

**Rear/Rear Side/GPRS850 Band\_4Slot/CH128\_Repeat/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

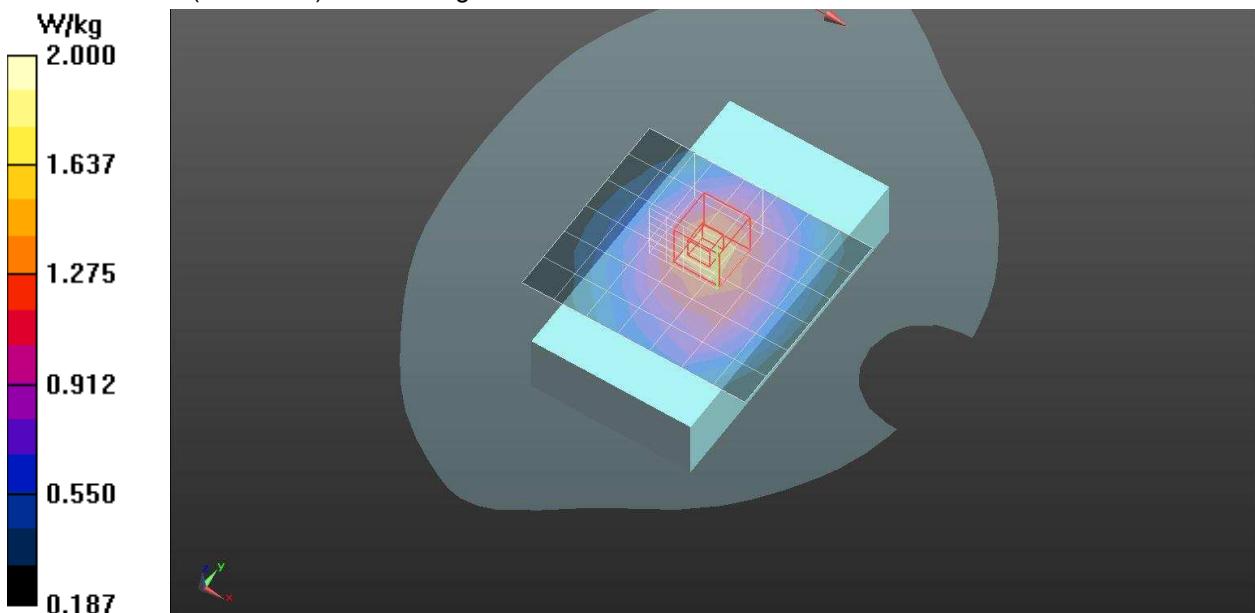
Reference Value = 39.62 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.54 W/kg

**SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.840 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.39 W/kg



## GPRS 850

Frequency: 824.2 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.939$  S/m;  $\epsilon_r = 56.186$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Rear/Rear Side/GPRS850 Band\_4Slot/CH128/Area Scan (8x7x1):** Measurement grid: dx=15mm,

dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.41 W/kg

**Rear/Rear Side/GPRS850 Band\_4Slot/CH128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

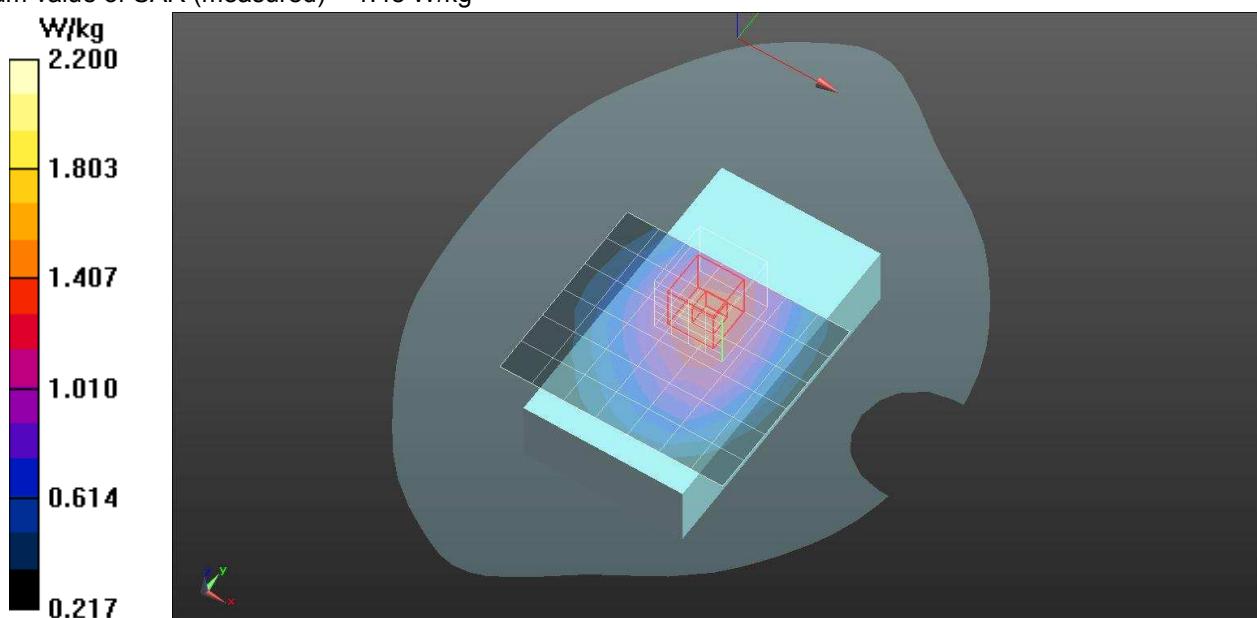
Reference Value = 41.35 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.63 W/kg

**SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.863 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.48 W/kg



## GPRS 1900

Frequency: 1880 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 53.183$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Front/GPRS 1900 Band\_4Slot/CH661/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.393 W/kg

**Front/GPRS 1900 Band\_4Slot/CH661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

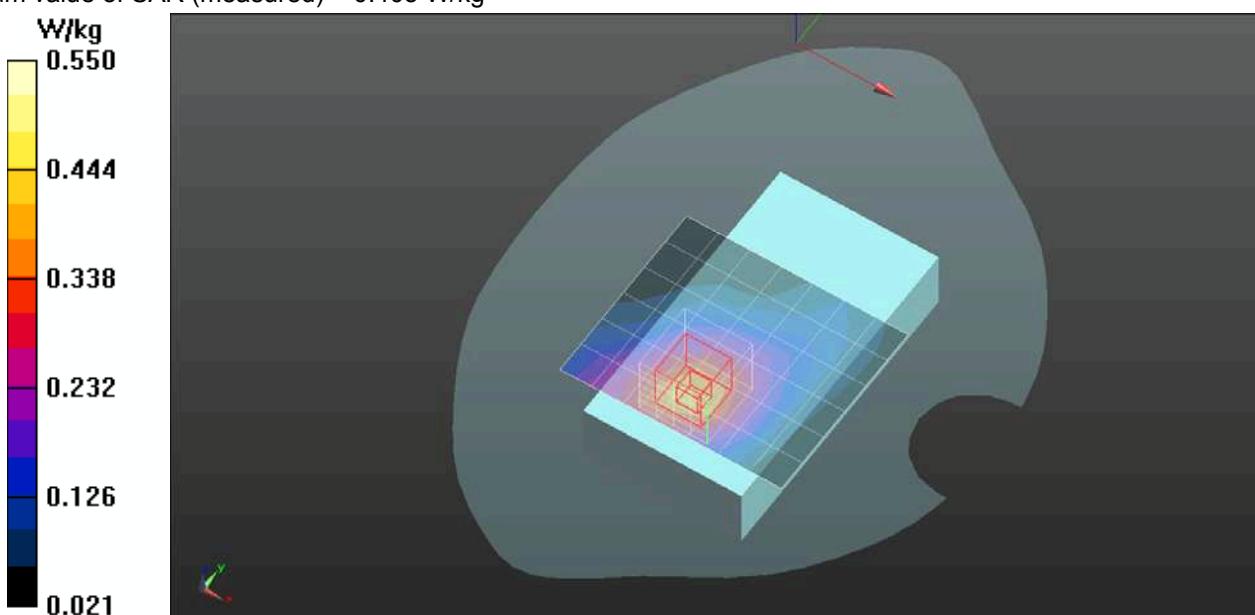
Reference Value = 10.02 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.465 W/kg

**SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.200 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.405 W/kg



## GPRS 1900

Frequency: 1880 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 53.183$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge1 /GPRS 1900 Band\_4Slot/CH661/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.477 W/kg

**Edge/Edge1 /GPRS 1900 Band\_4Slot/CH661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

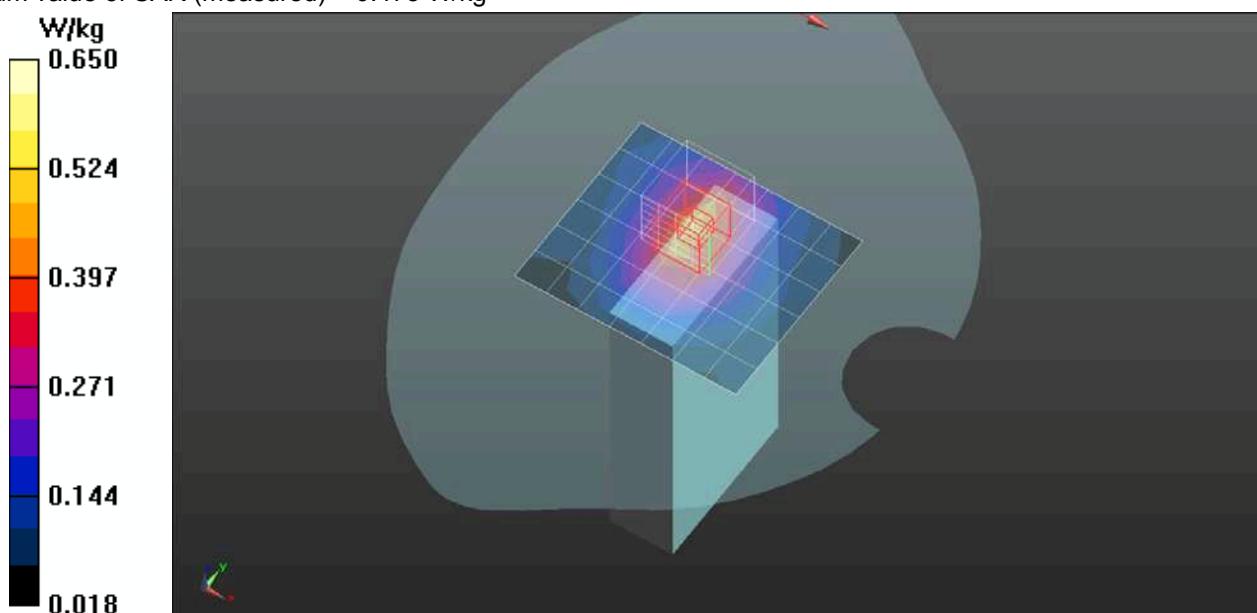
Reference Value = 17.65 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.545 W/kg

**SAR(1 g) = 0.346 W/kg; SAR(10 g) = 0.220 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.475 W/kg



## GPRS 1900

Frequency: 1880 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 53.183$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge2/GPRS 1900 Band\_4Slot/CH661/Area Scan (6x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.596 W/kg

**Edge/Edge2/GPRS 1900 Band\_4Slot/CH661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

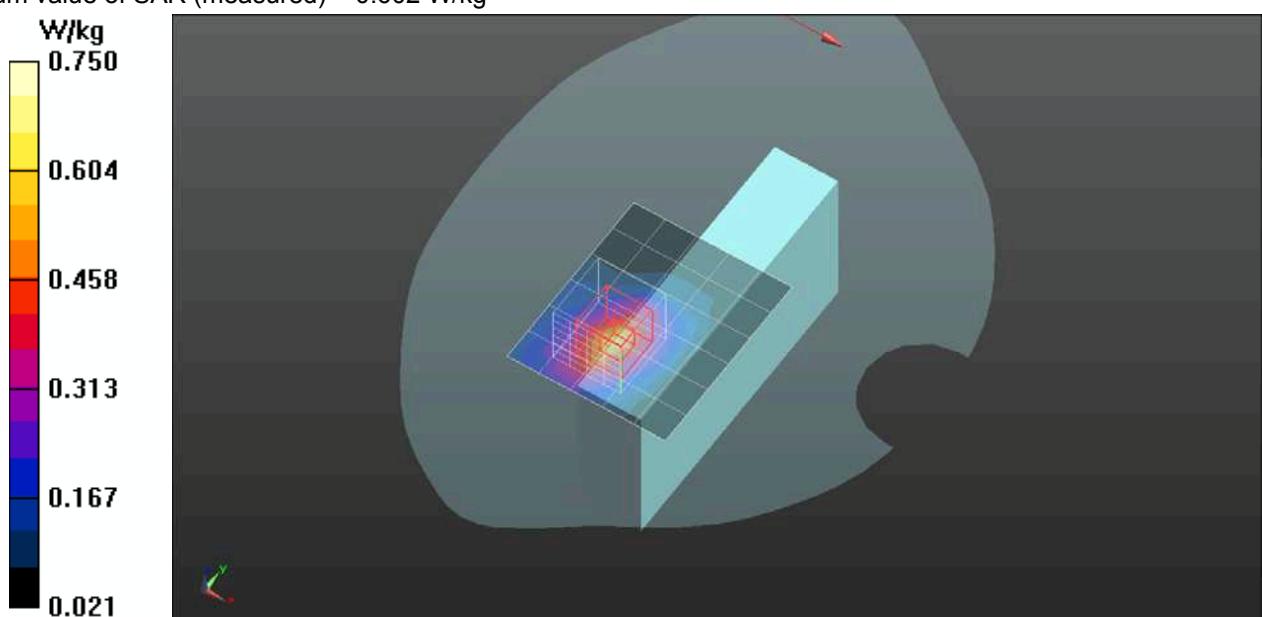
Reference Value = 5.810 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.708 W/kg

**SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.263 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.602 W/kg



## GPRS 1900

Frequency: 1880 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.57$  S/m;  $\epsilon_r = 53.004$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge3/GPRS 1900 Band\_4Slot/CH661/Area Scan (6x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0239 W/kg

**Edge/Edge3/GPRS 1900 Band\_4Slot/CH661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

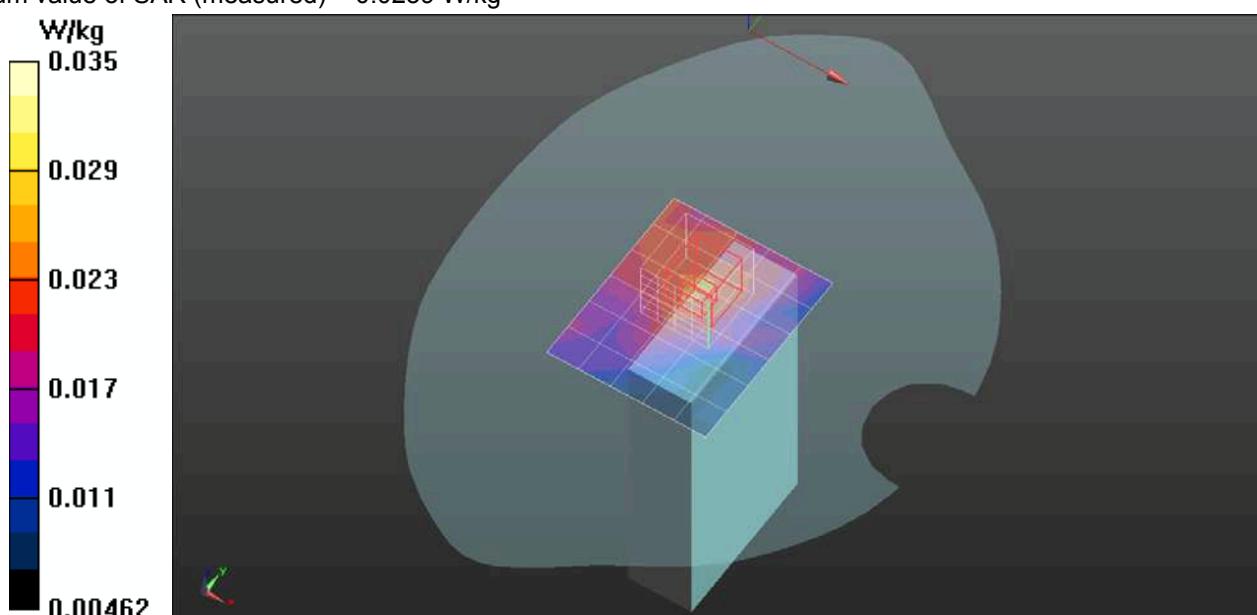
Reference Value = 4.194 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.0300 W/kg

**SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.016 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0259 W/kg



## GPRS 1900

Frequency: 1880 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.57$  S/m;  $\epsilon_r = 53.004$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge4/GPRS 1900 Band\_4Slot/CH661/Area Scan (6x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.116 W/kg

**Edge/Edge4/GPRS 1900 Band\_4Slot/CH661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

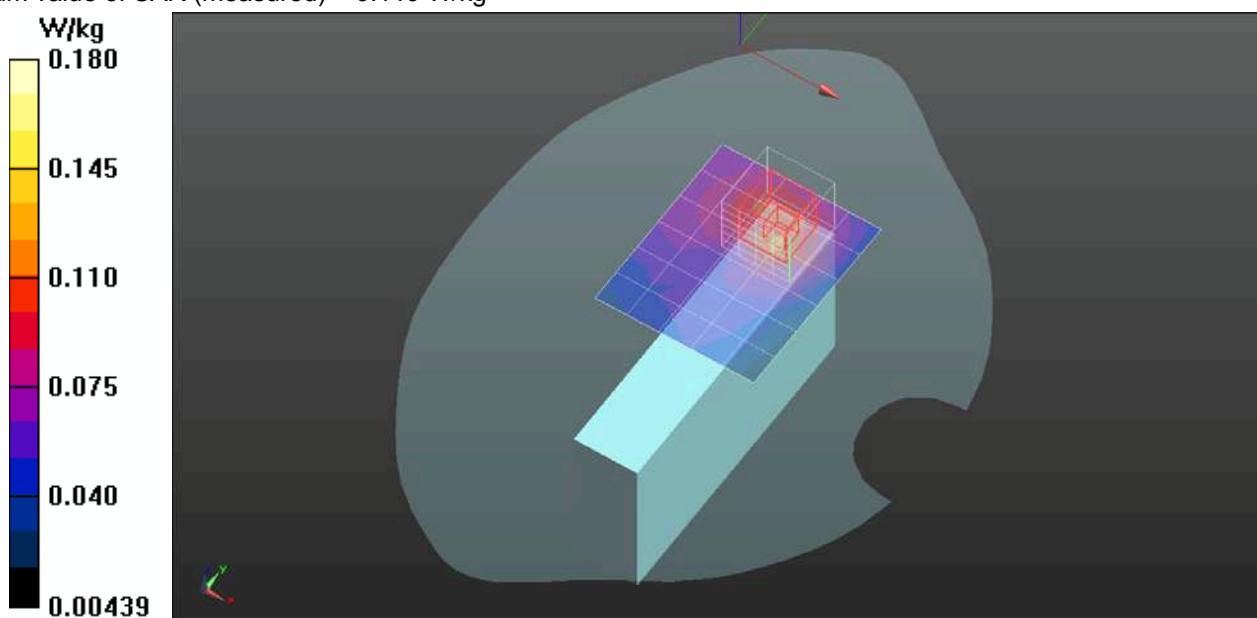
Reference Value = 6.464 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.137 W/kg

**SAR(1 g) = 0.085 W/kg; SAR(10 g) = 0.054 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.119 W/kg



## GPRS 1900

Frequency: 1880 MHz; Duty Cycle: 1:2.09894; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 53.183$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Rear/Rear Side/GPRS 1900 Band\_4Slot/CH661/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.890 W/kg

**Rear/Rear Side/GPRS 1900 Band\_4Slot/CH661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

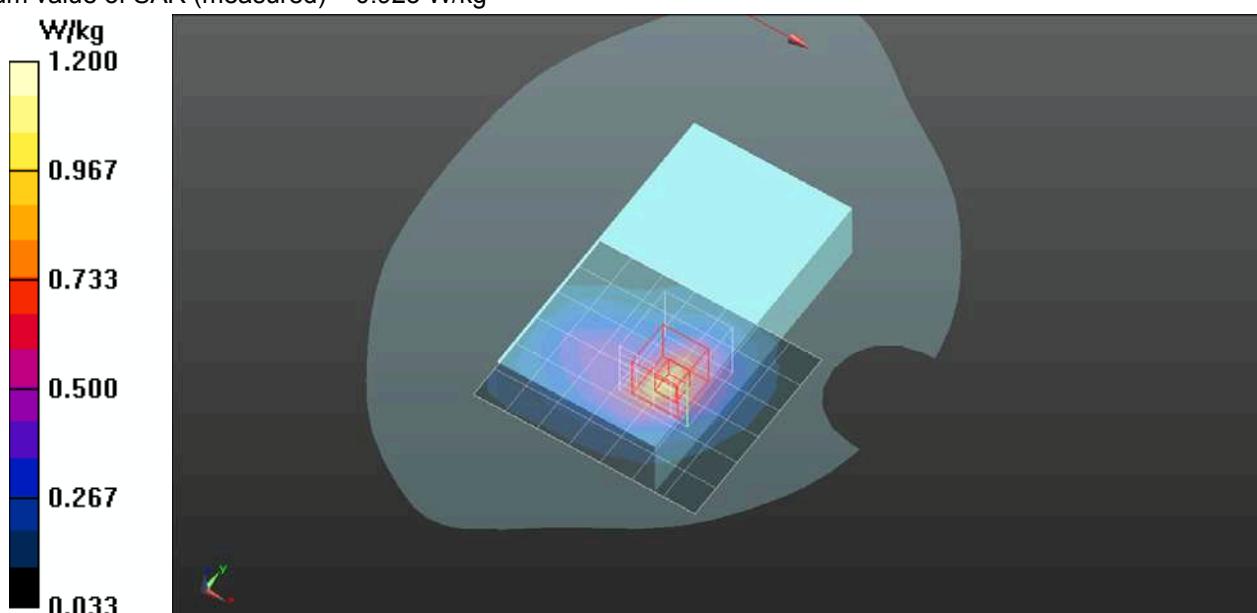
Reference Value = 8.238 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.399 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.923 W/kg



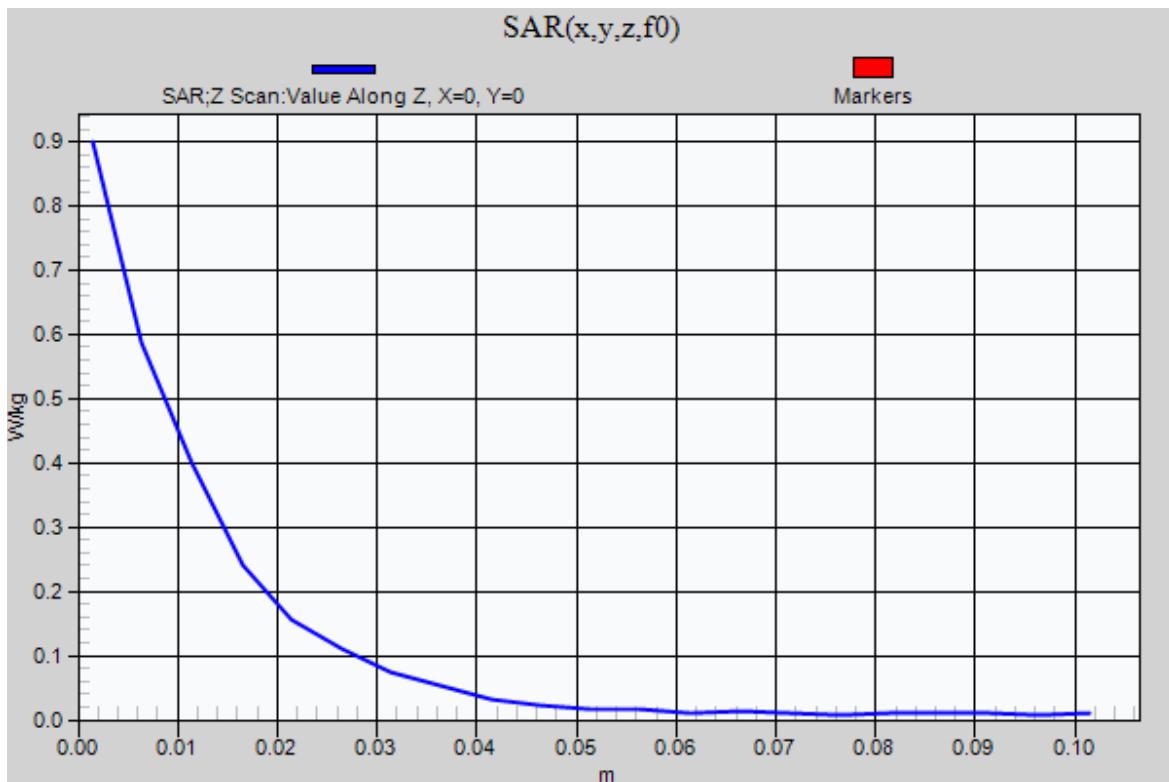
## GPRS 1900

Frequency: 1880 MHz; Duty Cycle: 1:2.09894

**Rear/Rear Side/GPRS 1900 Band\_4Slot/CH661/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.932 W/kg



## WCDMA II

Frequency: 1852.4 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.521$  S/m;  $\epsilon_r = 53.274$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Right/Right Cheek/WCDMA Band II/CH9262/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.732 W/kg

**Right/Right Cheek/WCDMA Band II/CH9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

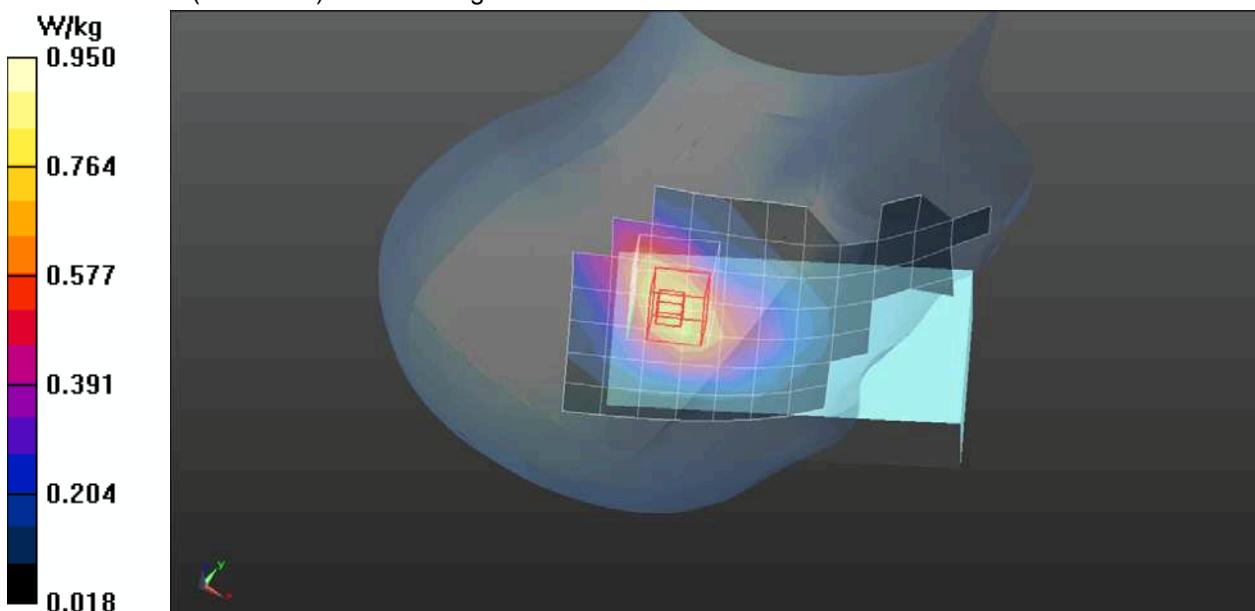
Reference Value = 22.33 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.890 W/kg

**SAR(1 g) = 0.620 W/kg; SAR(10 g) = 0.401 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.805 W/kg



## WCDMA II

Frequency: 1852.4 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.521$  S/m;  $\epsilon_r = 53.274$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Right/Right Tilted/WCDMA Band V/CH9262/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.767 W/kg

**Right/Right Tilted/WCDMA Band V/CH9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

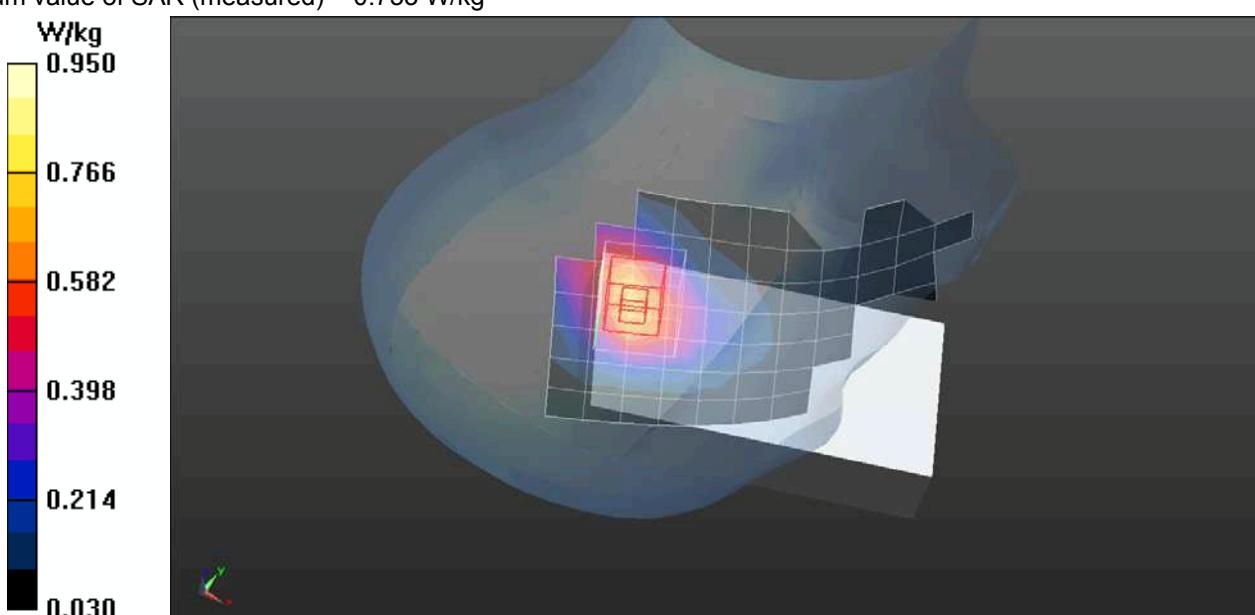
Reference Value = 23.15 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.858 W/kg

**SAR(1 g) = 0.586 W/kg; SAR(10 g) = 0.374 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.753 W/kg



## WCDMA II

Frequency: 1852.4 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.521$  S/m;  $\epsilon_r = 53.274$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Left/Left Cheek/WCDMA Band II/Ch 9262/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.887 W/kg

**Left/Left Cheek/WCDMA Band II/Ch 9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

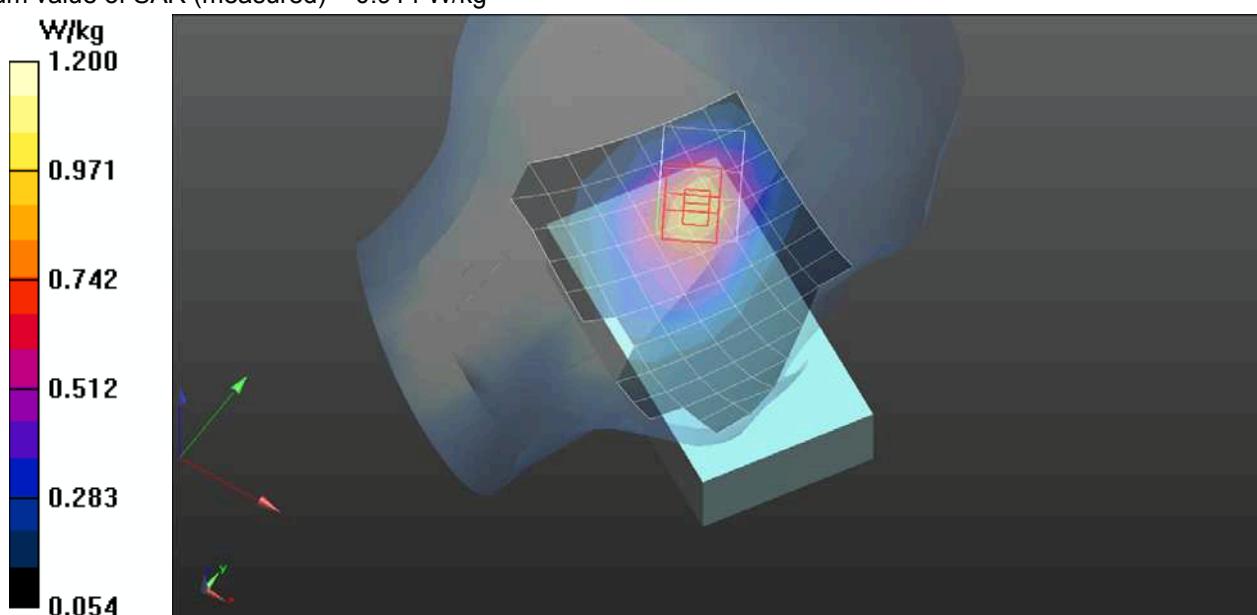
Reference Value = 20.71 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.692 W/kg; SAR(10 g) = 0.462 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.914 W/kg



## WCDMA II

Frequency: 1852.4 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.521$  S/m;  $\epsilon_r = 53.274$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Left/Left Tilted/WCDMA Band II/Ch 9262/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.991 W/kg

**Left/Left Tilted/WCDMA Band II/Ch 9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

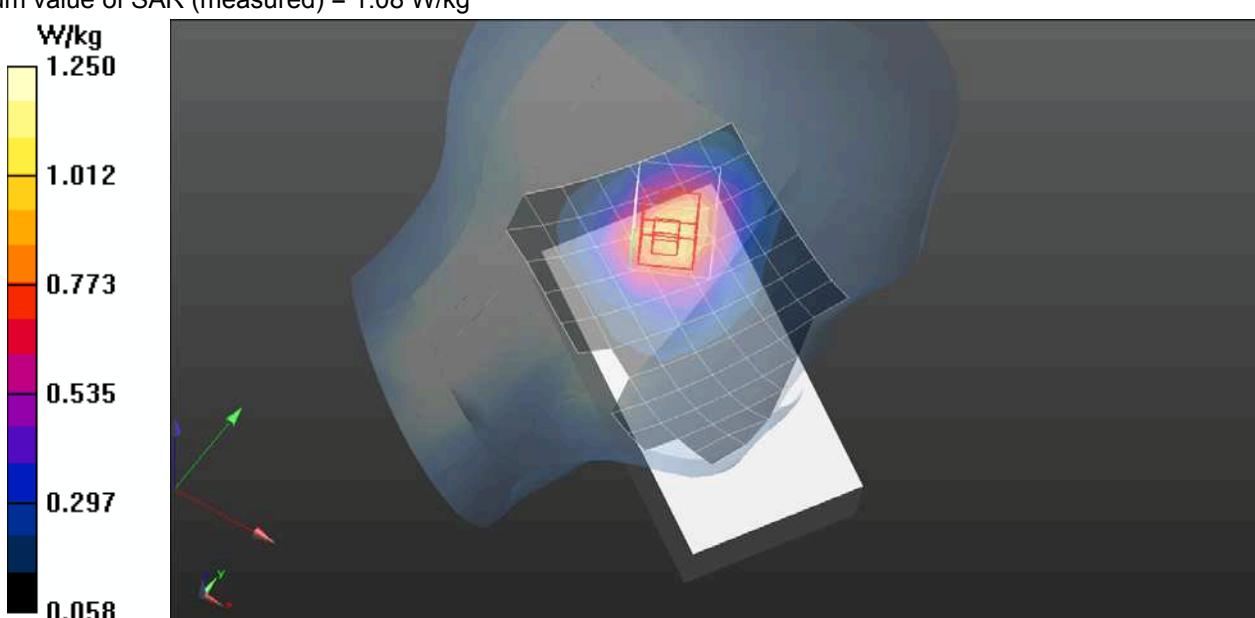
Reference Value = 25.70 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.822 W/kg; SAR(10 g) = 0.526 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.08 W/kg



## WCDMA II

Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 53.183$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Left/Left Tilted/WCDMA Band II/Ch 9400/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.884 W/kg

**Left/Left Tilted/WCDMA Band II/Ch 9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

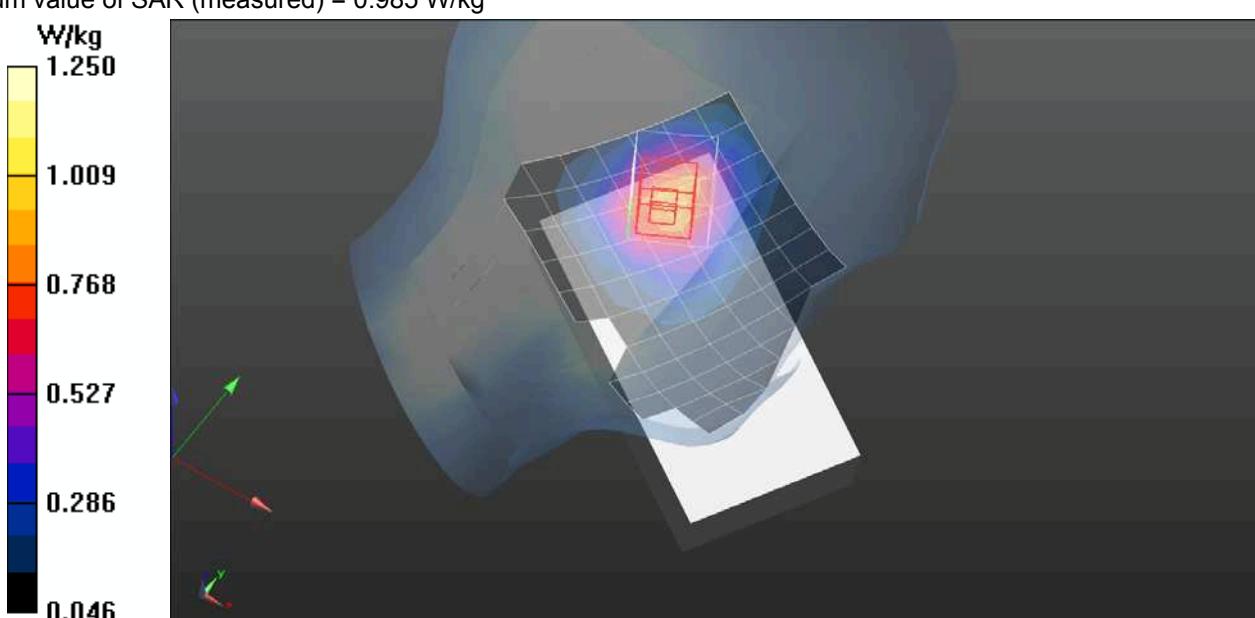
Reference Value = 23.68 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.11 W/kg

**SAR(1 g) = 0.745 W/kg; SAR(10 g) = 0.475 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.985 W/kg



## WCDMA II

Frequency: 1907.6 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used:  $f = 1907.8$  MHz;  $\sigma = 1.584$  S/m;  $\epsilon_r = 53.144$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Left/Left Tilted/WCDMA Band II/Ch 9538/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.925 W/kg

**Left/Left Tilted/WCDMA Band II/Ch 9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

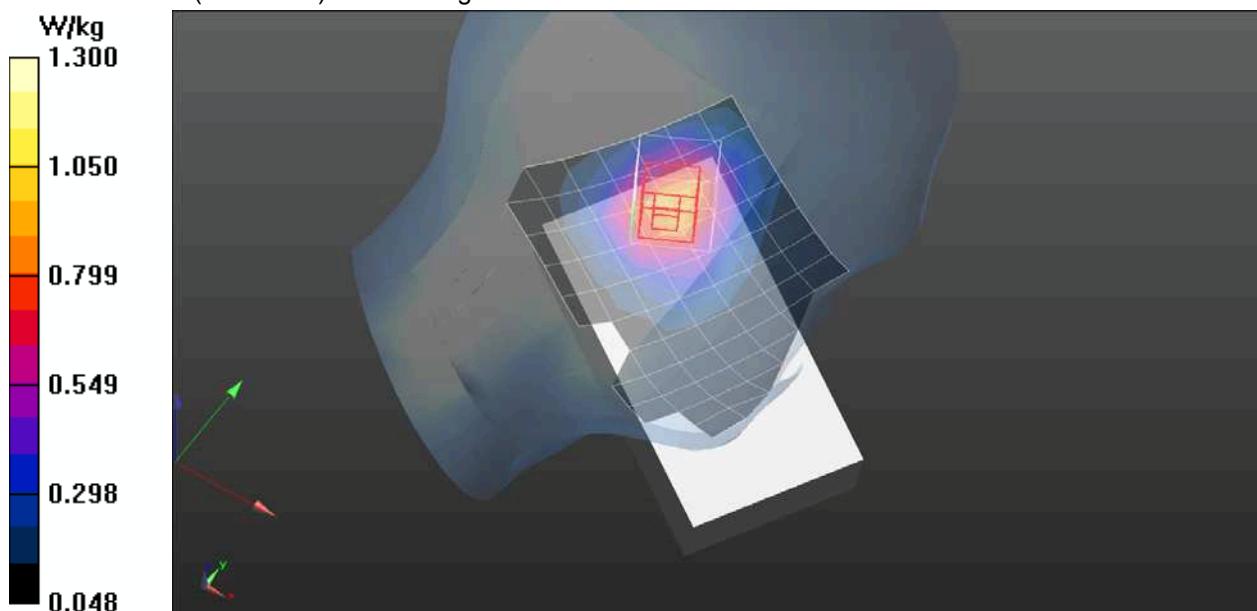
dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.94 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.496 W/kg**

Maximum value of SAR (measured) = 1.03 W/kg



## WCDMA II

Frequency: 1852.4 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.521$  S/m;  $\epsilon_r = 53.274$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Front/Front/WCDMA Band II/CH9262/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.390 W/kg

**Front/Front/WCDMA Band II/CH9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

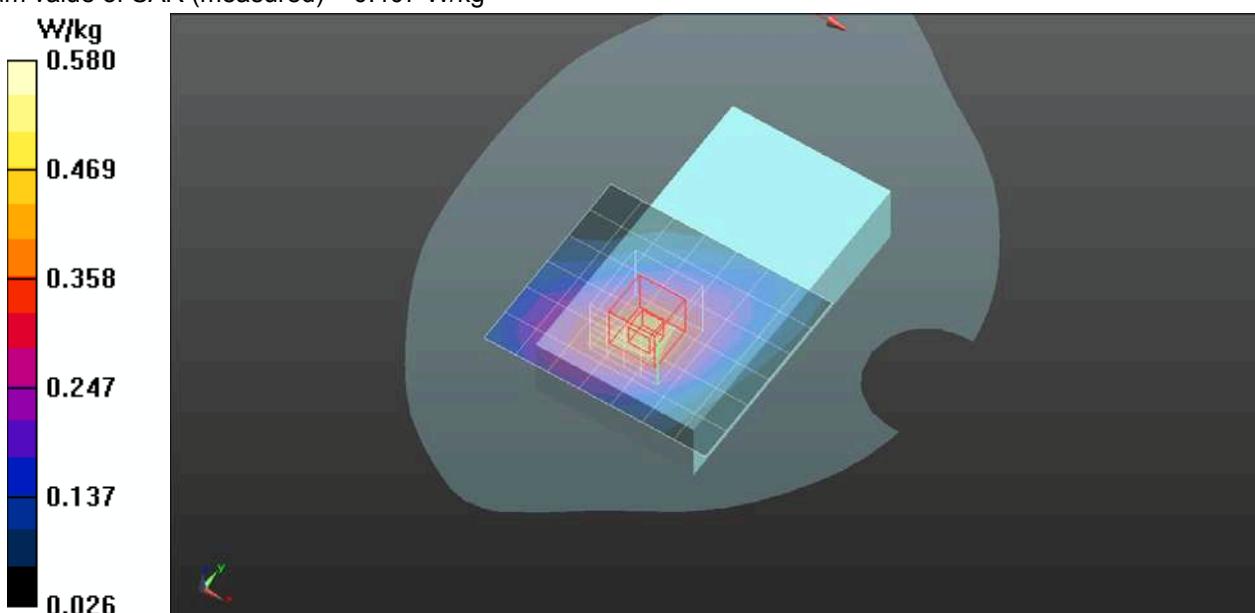
Reference Value = 10.58 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.465 W/kg

**SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.201 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.407 W/kg



## WCDMA II

Frequency: 1852.4 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.521$  S/m;  $\epsilon_r = 53.274$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge1/WCDMA Band V/Ch9262/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.686 W/kg

**Edge/Edge1/WCDMA Band V/Ch9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

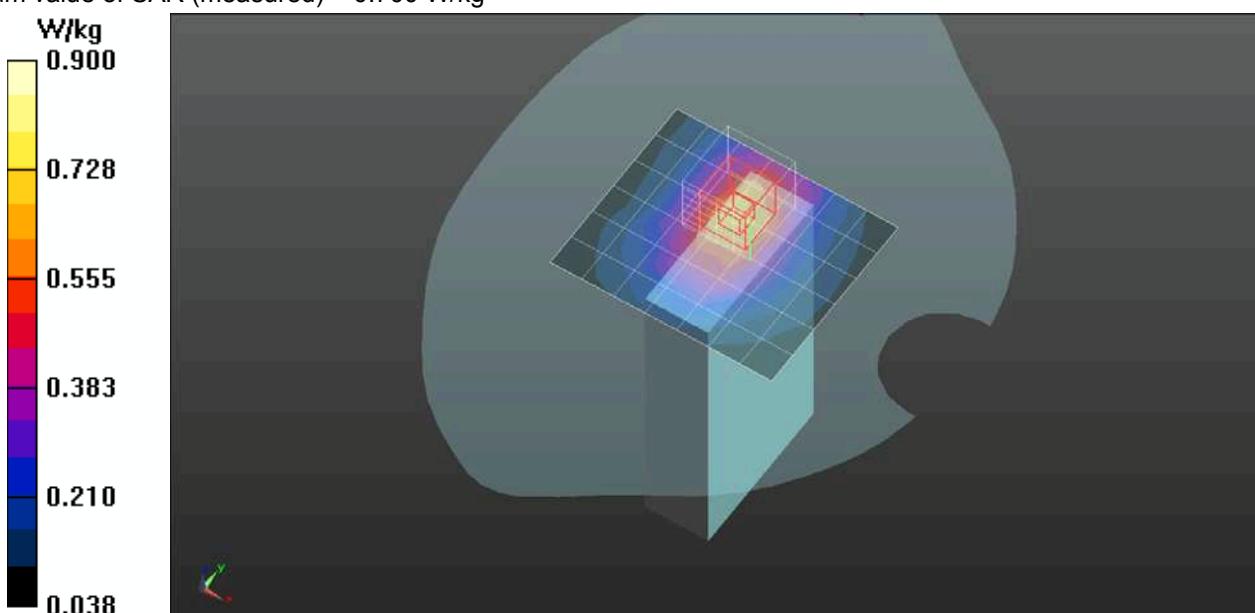
Reference Value = 20.88 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.811 W/kg

**SAR(1 g) = 0.508 W/kg; SAR(10 g) = 0.321 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.700 W/kg



## WCDMA II

Frequency: 1852.4 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.521$  S/m;  $\epsilon_r = 53.274$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge2/WCDMA Band V/Ch9262/Area Scan (6x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.761 W/kg

**Edge/Edge2/WCDMA Band V/Ch9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

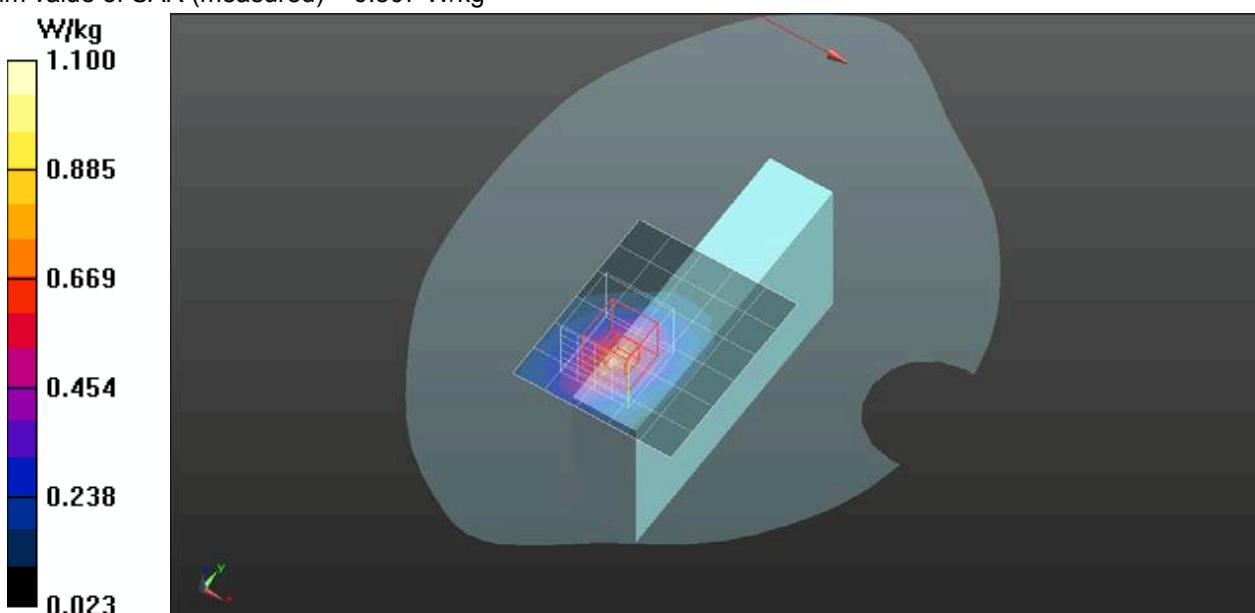
Reference Value = 6.124 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.941 W/kg

**SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.330 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.807 W/kg



## WCDMA II

Frequency: 1852.4 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.521$  S/m;  $\epsilon_r = 53.274$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Rear/Rear Side/WCDMA Band II/CH9262/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.21 W/kg

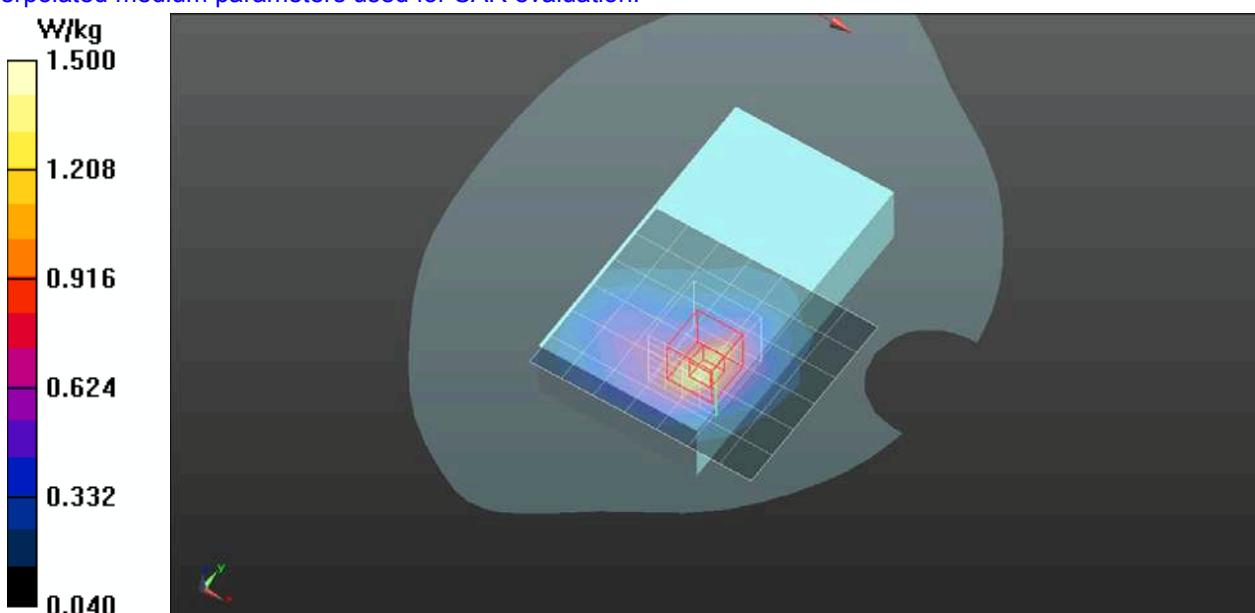
**Rear/Rear Side/WCDMA Band II/CH9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.495 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.876 W/kg; SAR(10 g) = 0.530 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)



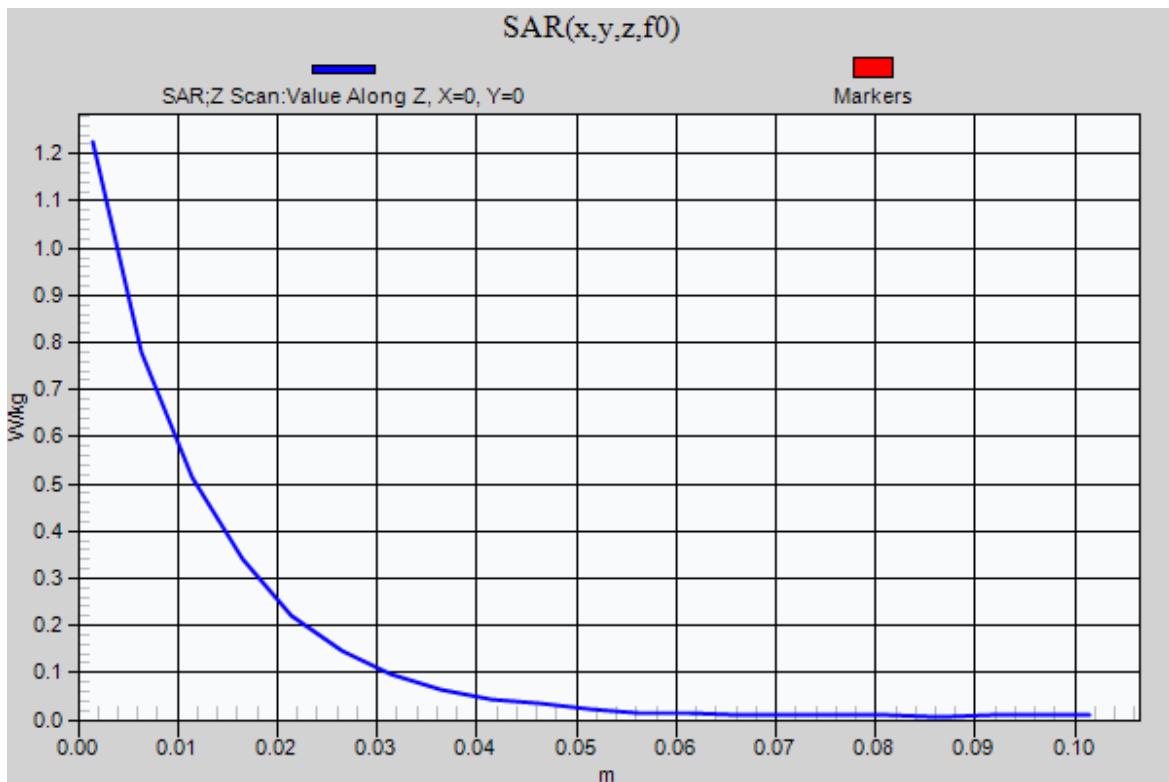
## WCDMA II

Frequency: 1852.4 MHz; Duty Cycle: 1:1

**Rear/Rear Side/WCDMA Band II/CH9262/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.22 W/kg



## WCDMA II

Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 53.183$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Rear/Rear Side/WCDMA Band II/CH9400/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.01 W/kg

**Rear/Rear Side/WCDMA Band II/CH9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

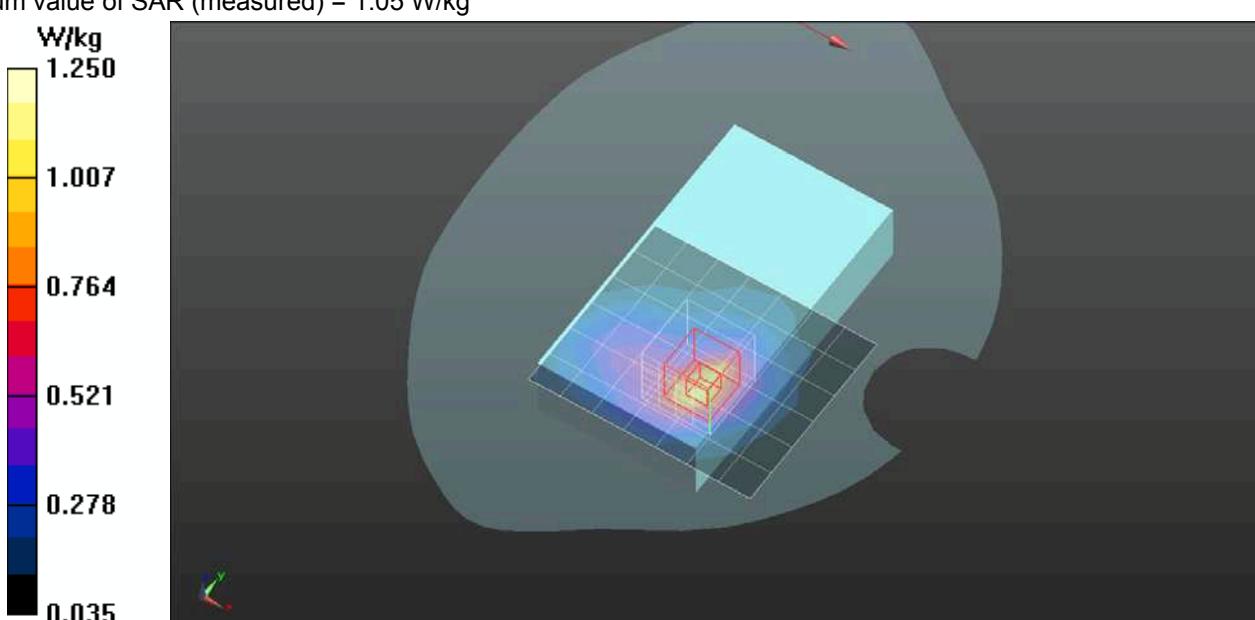
Reference Value = 8.452 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.750 W/kg; SAR(10 g) = 0.447 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.05 W/kg



## WCDMA II

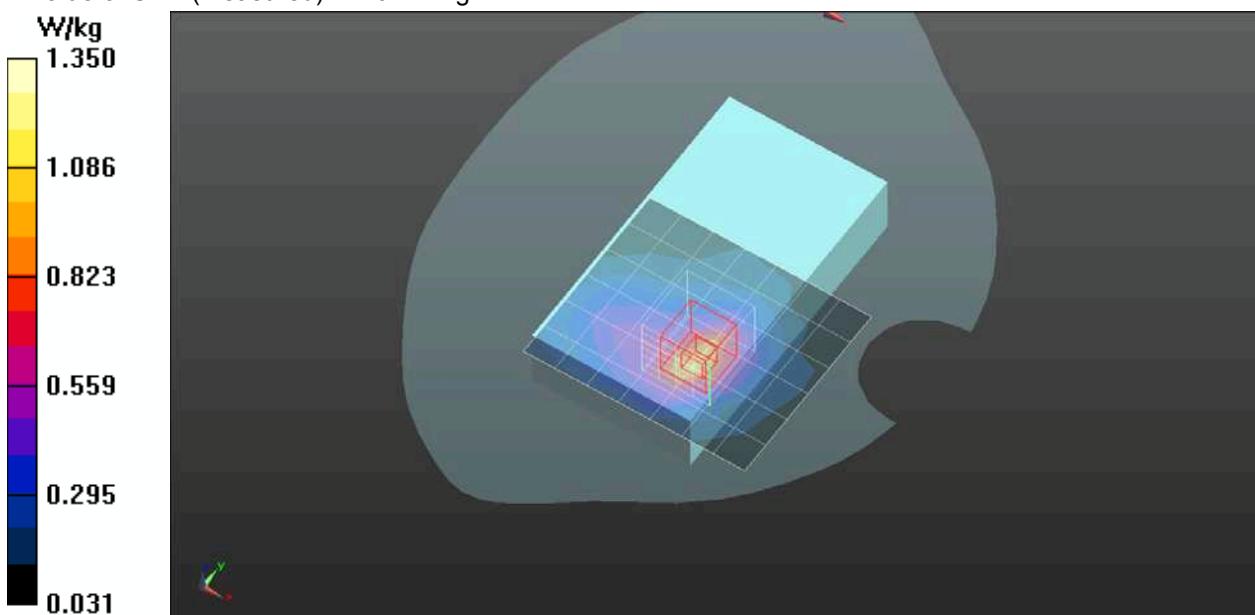
Frequency: 1907.6 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used:  $f = 1907.8$  MHz;  $\sigma = 1.584$  S/m;  $\epsilon_r = 53.144$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Rear/Rear Side/WCDMA Band II/CH9538/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 1.04 W/kg

**Rear/Rear Side/WCDMA Band II/CH9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 8.265 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 1.17 W/kg  
**SAR(1 g) = 0.732 W/kg; SAR(10 g) = 0.439 W/kg**  
Maximum value of SAR (measured) = 1.02 W/kg



## WCDMA II

Frequency: 1852.4 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.521$  S/m;  $\epsilon_r = 53.274$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.73, 7.73, 7.73); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

### Rear/Rear Side/WCDMA Band II/CH9262\_Repeat/Area Scan (8x7x1): Measurement grid:

dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.00 W/kg

### Rear/Rear Side/WCDMA Band II/CH9262\_Repeat/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: dx=8mm, dy=8mm, dz=5mm

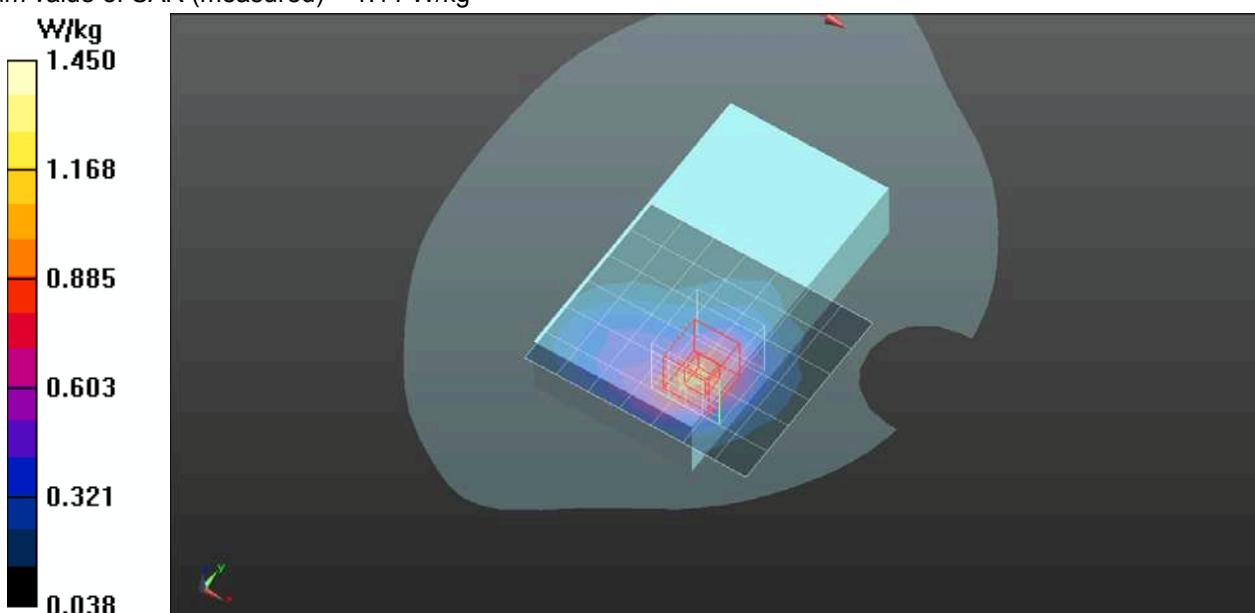
Reference Value = 8.005 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.28 W/kg

**SAR(1 g) = 0.807 W/kg; SAR(10 g) = 0.488 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.11 W/kg



## WCDMA V

Frequency: 846.6 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.962$  S/m;  $\epsilon_r = 55.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

### Right/Right Cheek/WCDMA Band V/CH4233/Area Scan (8x12x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.396 W/kg

### Right/Right Cheek/WCDMA Band V/CH4233/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

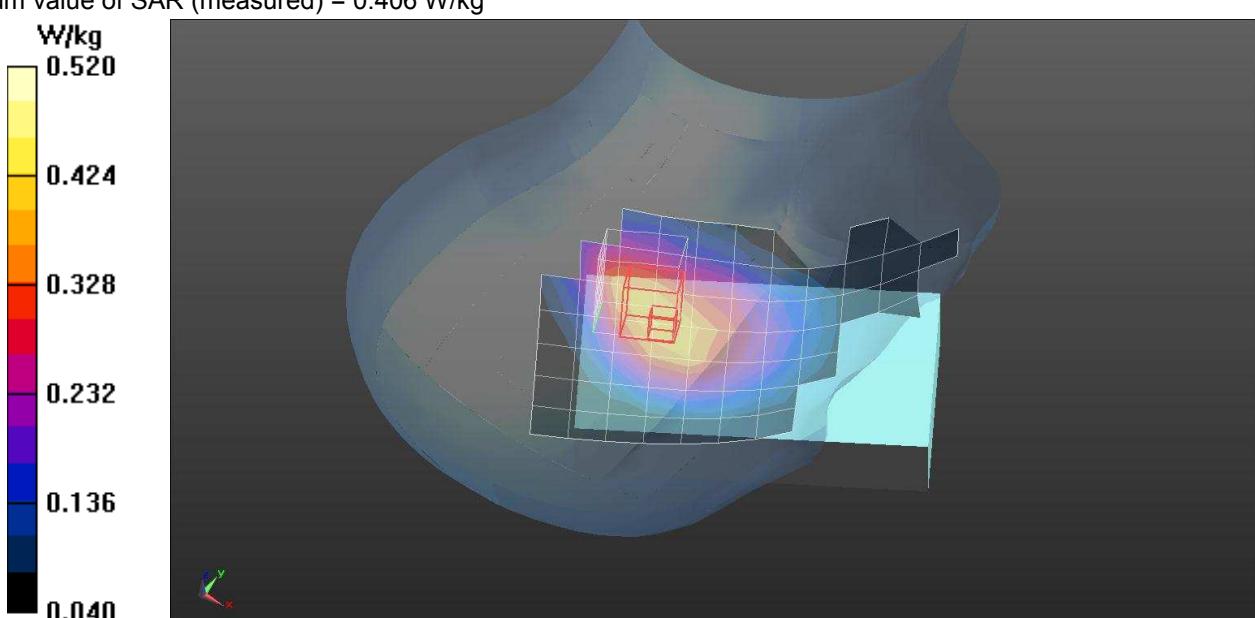
Reference Value = 17.65 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.442 W/kg

**SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.248 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.406 W/kg



## WCDMA V

Frequency: 846.6 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.962$  S/m;  $\epsilon_r = 55.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Right/Right Tilted/WCDMA Band V/CH4233/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.187 W/kg

**Right/Right Tilted/WCDMA Band V/CH4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

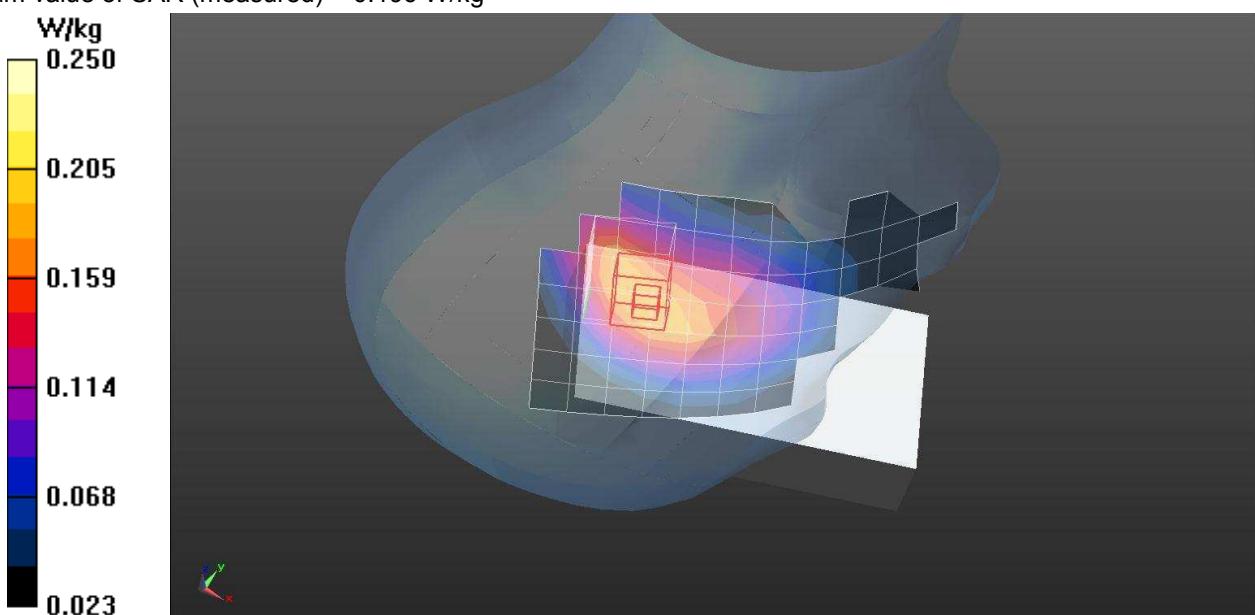
Reference Value = 13.66 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.223 W/kg

**SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.121 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.196 W/kg



## WCDMA V

Frequency: 846.6 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.962$  S/m;  $\epsilon_r = 55.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Left/Left Cheek/WCDMA Band V/CH4233/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.546 W/kg

**Left/Left Cheek/WCDMA Band V/CH4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

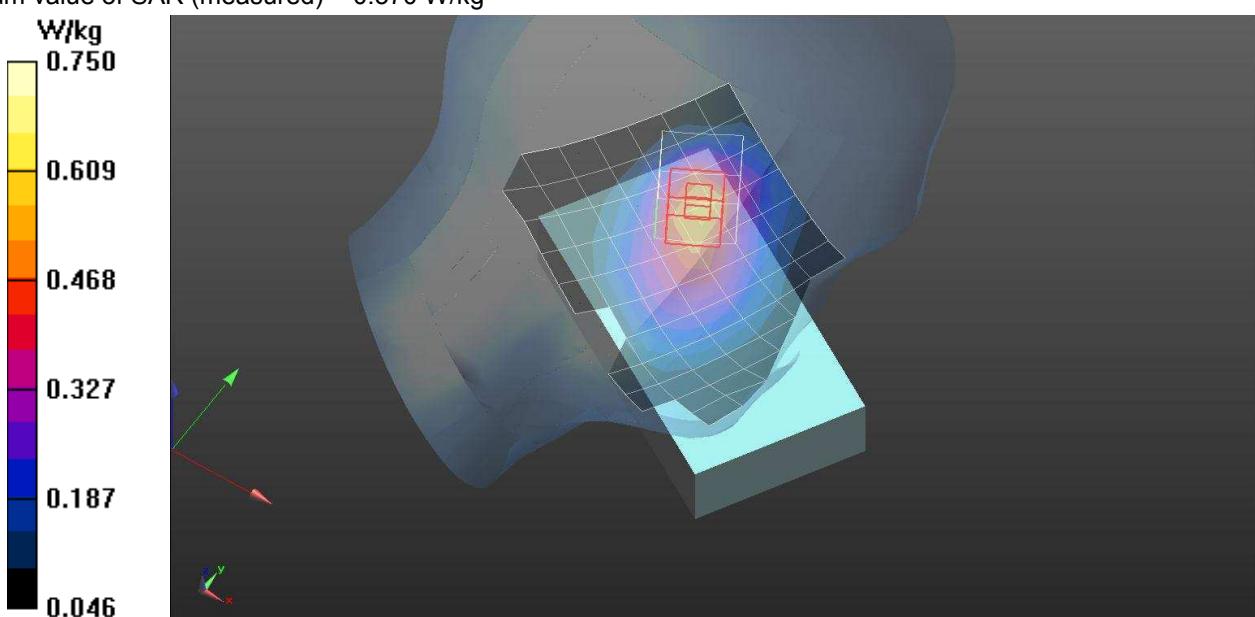
Reference Value = 15.67 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.669 W/kg

**SAR(1 g) = 0.424 W/kg; SAR(10 g) = 0.289 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.570 W/kg



## WCDMA V

Frequency: 846.6 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C

Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.962$  S/m;  $\epsilon_r = 55.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Left/Left Tilted/WCDMA Band V/CH4233/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.387 W/kg

**Left/Left Tilted/WCDMA Band V/CH4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

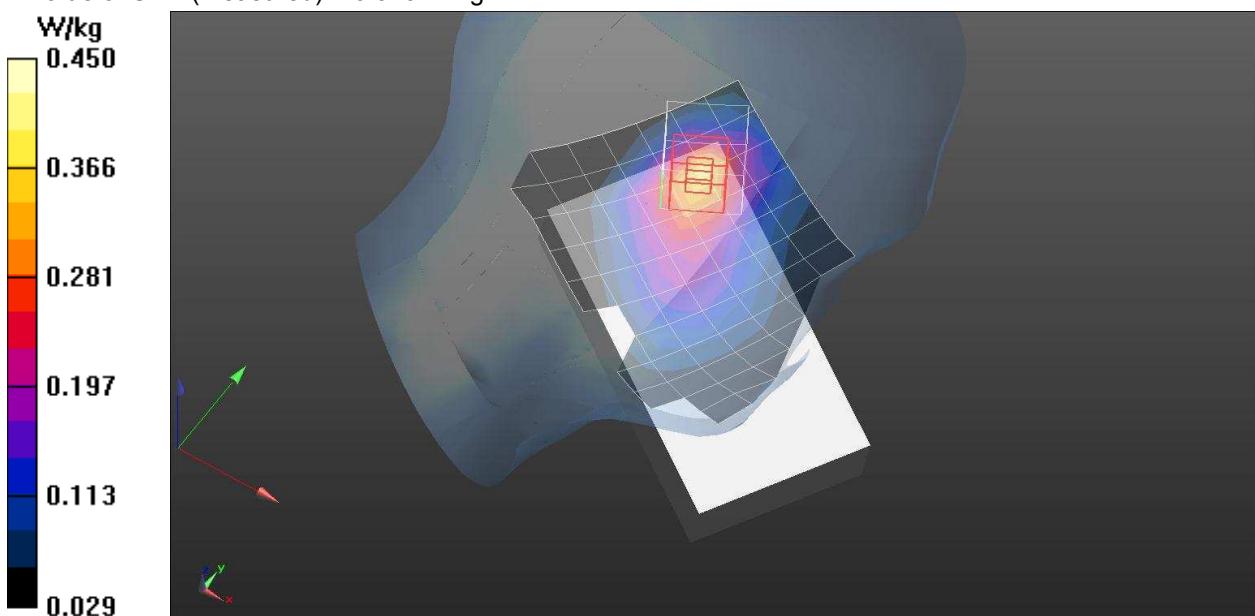
Reference Value = 15.33 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.437 W/kg

**SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.185 W/kg**

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.376 W/kg



## WCDMA V

Frequency: 846.6 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
 Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.962$  S/m;  $\epsilon_r = 55.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Front/Front/WCDMA Band V/CH4233/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.445 W/kg

**Front/Front/WCDMA Band V/CH4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

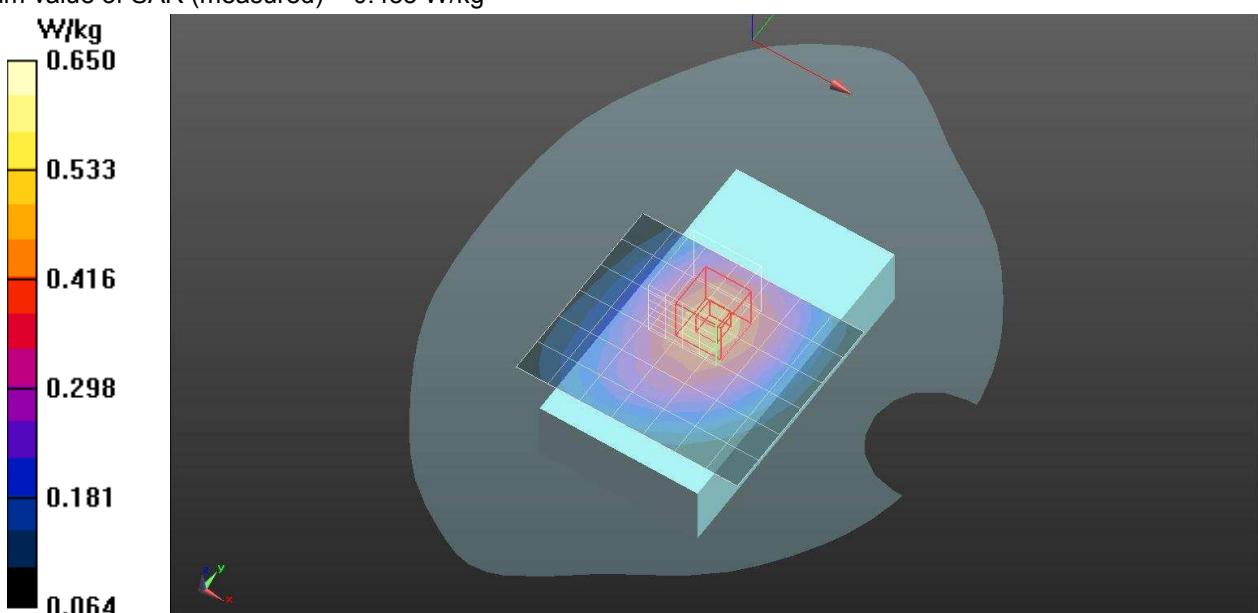
Reference Value = 22.53 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.503 W/kg

**SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.282 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.453 W/kg



## WCDMA V

Frequency: 846.6 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.962$  S/m;  $\epsilon_r = 55.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Edge/Edge1 Side/WCDMA Band V/CH4233/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0857 W/kg

**Edge/Edge1 Side/WCDMA Band V/CH4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

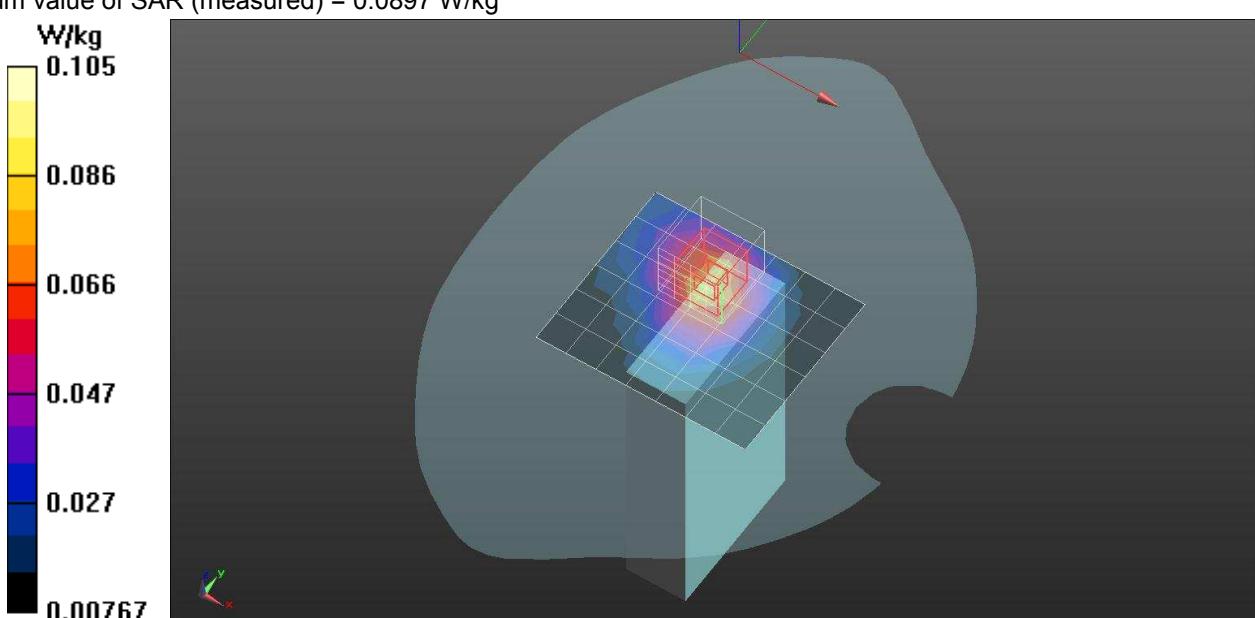
Reference Value = 8.514 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.103 W/kg

**SAR(1 g) = 0.068 W/kg; SAR(10 g) = 0.046 W/kg**

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0897 W/kg



## WCDMA V

Frequency: 846.6 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
 Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.962$  S/m;  $\epsilon_r = 55.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

### DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

### Edge/Edge2/WCDMA Band V/CH4233/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.454 W/kg

### Edge/Edge2/WCDMA Band V/CH4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

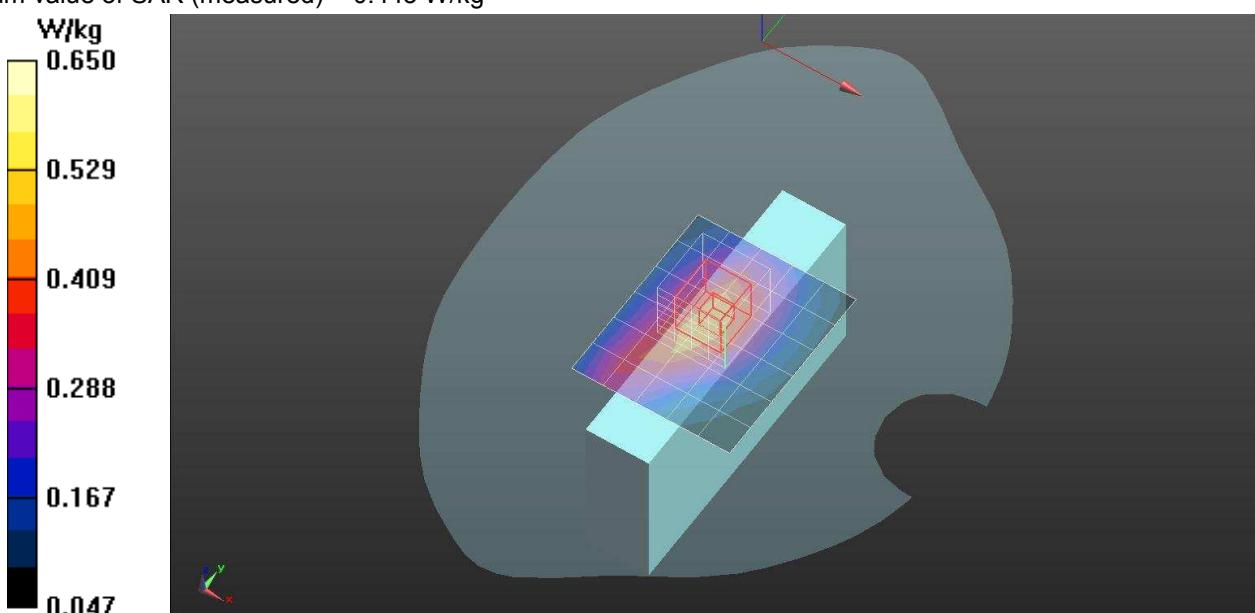
Reference Value = 22.34 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.499 W/kg

**SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.249 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.443 W/kg



## WCDMA V

Frequency: 846.6 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.962$  S/m;  $\epsilon_r = 55.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(9.52, 9.52, 9.52); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Rear/Rear Side/WCDMA Band V/CH4233/Area Scan (8x7x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.611 W/kg

**Rear/Rear Side/WCDMA Band V/CH4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm

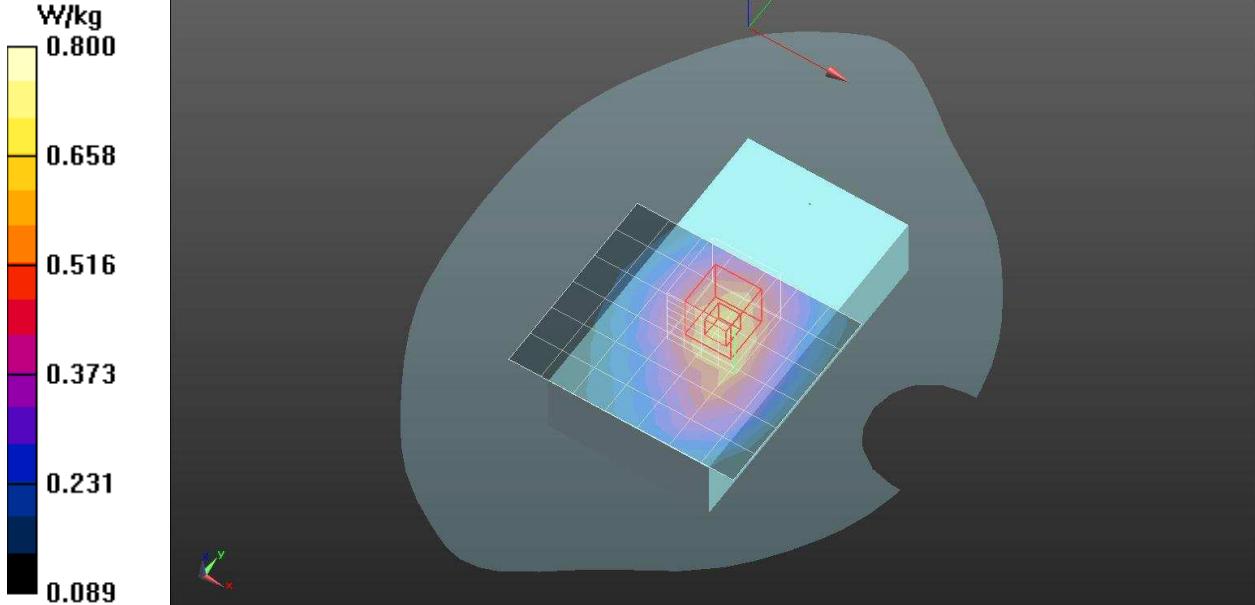
Reference Value = 25.51 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.676 W/kg

**SAR(1 g) = 0.490 W/kg; SAR(10 g) = 0.362 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.610 W/kg



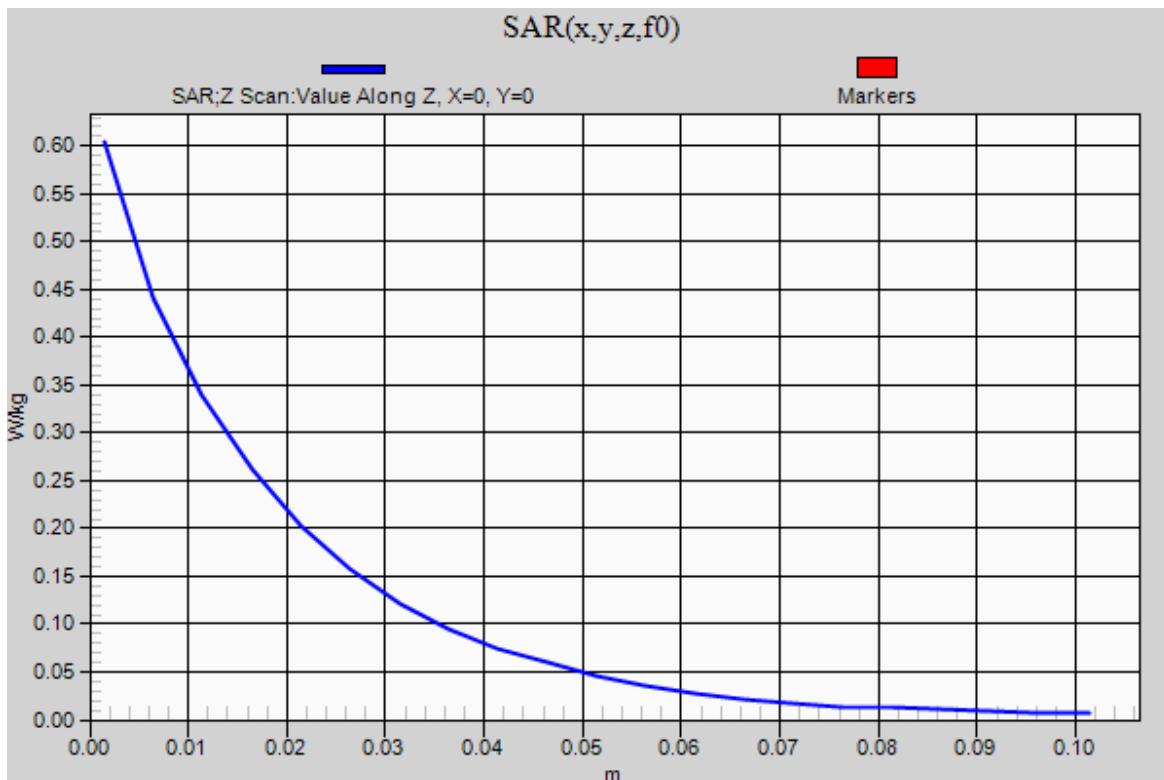
## WCDMA V

Frequency: 846.6 MHz; Duty Cycle: 1:1

**Rear/Rear Side/WCDMA Band V/CH4233/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.604 W/kg



## Wi-Fi 2.4G Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.918$  S/m;  $\epsilon_r = 52.463$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.22, 7.22, 7.22); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Front/Front/Main Ant/802.11b/Ch6/Area Scan (9x8x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.164 W/kg

**Front/Front/Main Ant/802.11b/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

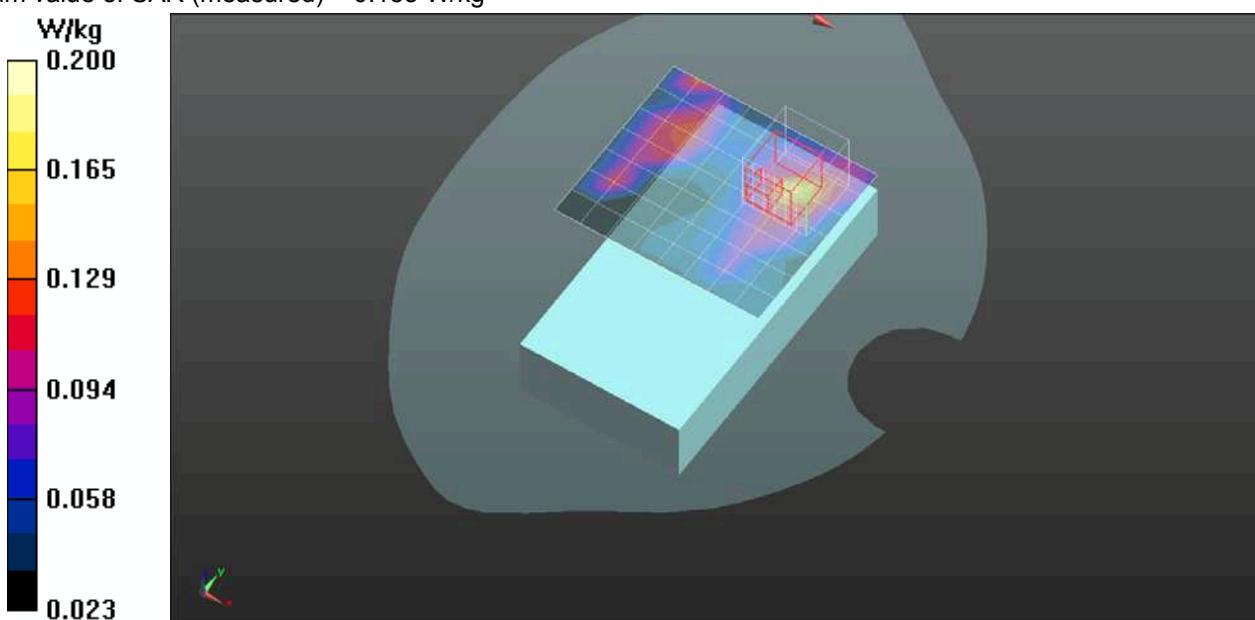
Reference Value = 4.790 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.179 W/kg

**SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.074 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.155 W/kg



## Wi-Fi 2.4G Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.918$  S/m;  $\epsilon_r = 52.463$ ;  $\rho = 1000$  kg/m<sup>3</sup>

### DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.22, 7.22, 7.22); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

### Edge/Edge 2/Main Ant/802.11b/Ch6/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.139 W/kg

### Edge/Edge 2/Main Ant/802.11b/Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

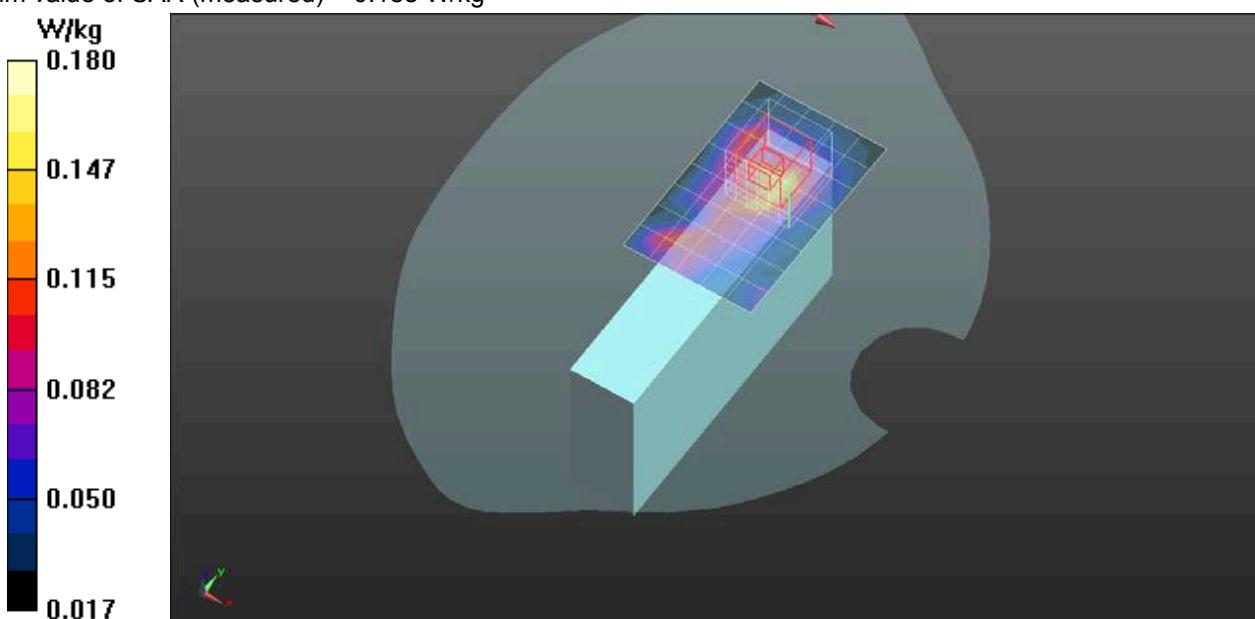
Reference Value = 10.85 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.225 W/kg

**SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.082 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.188 W/kg



## Wi-Fi 2.4G Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.5°C  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.918$  S/m;  $\epsilon_r = 52.463$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn877; Calibrated: 2014/03/26
- Probe: EX3DV4 - SN3665; ConvF(7.22, 7.22, 7.22); Calibrated: 2014/05/22;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150

**Rear/Rear Side/Main Ant/802.11b/Ch6/Area Scan (7x9x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.196 W/kg

**Rear/Rear Side/Main Ant/802.11b/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

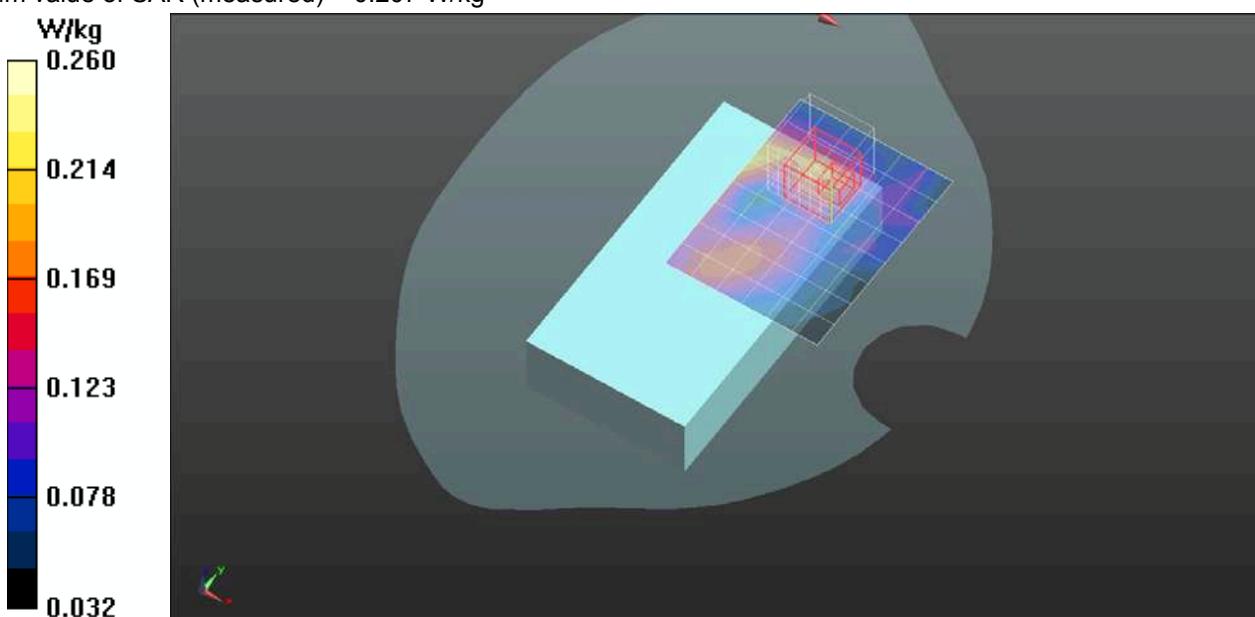
Reference Value = 7.735 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.276 W/kg

**SAR(1 g) = 0.139 W/kg; SAR(10 g) = 0.098 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.207 W/kg



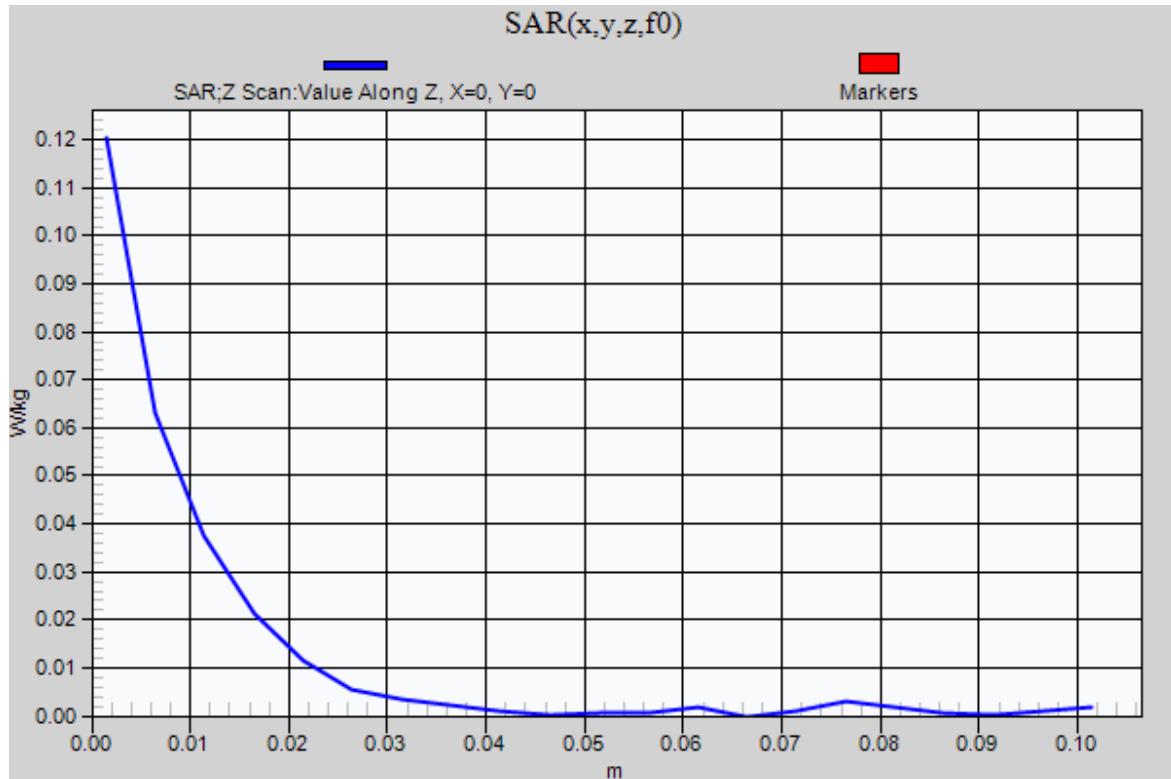
## Wi-Fi 2.4G Band

Frequency: 2437 MHz; Duty Cycle: 1:1

**Rear/Rear Side/Main Ant/802.11b/Ch6/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

**Info:** Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.137 W/kg



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



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Accreditation No.: **SCS 108**

Client **CCS-TW (Auden)**

Certificate No: **EX3-3665\_May14**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3665**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6**  
 Calibration procedure for dosimetric E-field probes

Calibration date: **May 22, 2014**

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 ( $22 \pm 3$ )°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	03-Apr-14 (No. 217-01911)	Apr-15
Power sensor E4412A	MY41498087	03-Apr-14 (No. 217-01911)	Apr-15
Reference 3 dB Attenuator	SN: S5054 (3c)	03-Apr-14 (No. 217-01915)	Apr-15
Reference 20 dB Attenuator	SN: S5277 (20x)	03-Apr-14 (No. 217-01919)	Apr-15
Reference 30 dB Attenuator	SN: S5129 (30b)	03-Apr-14 (No. 217-01920)	Apr-15
Reference Probe ES3DV2	SN: 3013	30-Dec-13 (No. ES3-3013_Dec13)	Dec-14
DAE4	SN: 660	13-Dec-13 (No. DAE4-660_Dec13)	Dec-14
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-16
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

Calibrated by:	Name	Function	Signature
	Claudio Leubler	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: May 23, 2014

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Accreditation No.: **SCS 108**

### Glossary:

TSL	tissue simulating liquid
NORM $x,y,z$	sensitivity in free space
ConvF	sensitivity in TSL / NORM $x,y,z$
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
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
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

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

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- 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:

- $NORMx,y,z$ : Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide).  $NORMx,y,z$  are only intermediate values, i.e., the uncertainties of  $NORMx,y,z$  does not affect the  $E^2$ -field uncertainty inside TSL (see below ConvF).
- $NORM(f)x,y,z = NORMx,y,z * frequency\_response$  (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.
- $DCPx,y,z$ : DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- $PAR$ : PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- $Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z$ :  $A, B, C, D$  are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- *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  $NORMx,y,z * ConvF$  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.
- *Connector Angle*: The angle is assessed using the information gained by determining the  $NORMx$  (no uncertainty required).

# Probe EX3DV4

**SN:3665**

Manufactured: October 20, 2008  
Calibrated: May 22, 2014

**Calibrated for DASY/EASY Systems**  
(Note: non-compatible with DASY2 system!)

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3665

### Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup>	0.50	0.58	0.52	$\pm 10.1 \%$
DCP (mV) <sup>B</sup>	94.8	94.8	101.8	

### Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc <sup>E</sup> (k=2)
0	CW	X	0.0	0.0	1.0	0.00	127.1	$\pm 4.1 \%$
		Y	0.0	0.0	1.0		120.1	
		Z	0.0	0.0	1.0		121.7	

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 Pages 5 and 6).

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

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3665

### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unct. (k=2)
750	41.9	0.89	10.18	10.18	10.18	0.30	0.99	± 12.0 %
835	41.5	0.90	9.75	9.75	9.75	0.21	1.27	± 12.0 %
900	41.5	0.97	9.64	9.64	9.64	0.44	0.74	± 12.0 %
1750	40.1	1.37	8.39	8.39	8.39	0.56	0.78	± 12.0 %
1900	40.0	1.40	7.93	7.93	7.93	0.54	0.80	± 12.0 %
2000	40.0	1.40	7.77	7.77	7.77	0.35	1.02	± 12.0 %
2450	39.2	1.80	7.00	7.00	7.00	0.44	0.92	± 12.0 %
2600	39.0	1.96	6.79	6.79	6.79	0.41	1.00	± 12.0 %
5200	36.0	4.66	5.35	5.35	5.35	0.35	1.80	± 13.1 %
5300	35.9	4.76	5.07	5.07	5.07	0.35	1.80	± 13.1 %
5500	35.6	4.96	4.97	4.97	4.97	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.86	4.86	4.86	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.73	4.73	4.73	0.40	1.80	± 13.1 %

<sup>C</sup> Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3665

### Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unct. (k=2)
750	55.5	0.96	9.64	9.64	9.64	0.38	0.87	± 12.0 %
835	55.2	0.97	9.52	9.52	9.52	0.32	1.01	± 12.0 %
900	55.0	1.05	9.31	9.31	9.31	0.26	1.16	± 12.0 %
1750	53.4	1.49	8.06	8.06	8.06	0.77	0.64	± 12.0 %
1900	53.3	1.52	7.73	7.73	7.73	0.46	0.81	± 12.0 %
2000	53.3	1.52	7.86	7.86	7.86	0.35	0.93	± 12.0 %
2450	52.7	1.95	7.22	7.22	7.22	0.80	0.50	± 12.0 %
2600	52.5	2.16	7.11	7.11	7.11	0.80	0.50	± 12.0 %
5200	49.0	5.30	4.43	4.43	4.43	0.50	1.90	± 13.1 %
5300	48.9	5.42	4.23	4.23	4.23	0.50	1.90	± 13.1 %
5500	48.6	5.65	3.93	3.93	3.93	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.82	3.82	3.82	0.50	1.90	± 13.1 %
5800	48.2	6.00	4.22	4.22	4.22	0.50	1.90	± 13.1 %

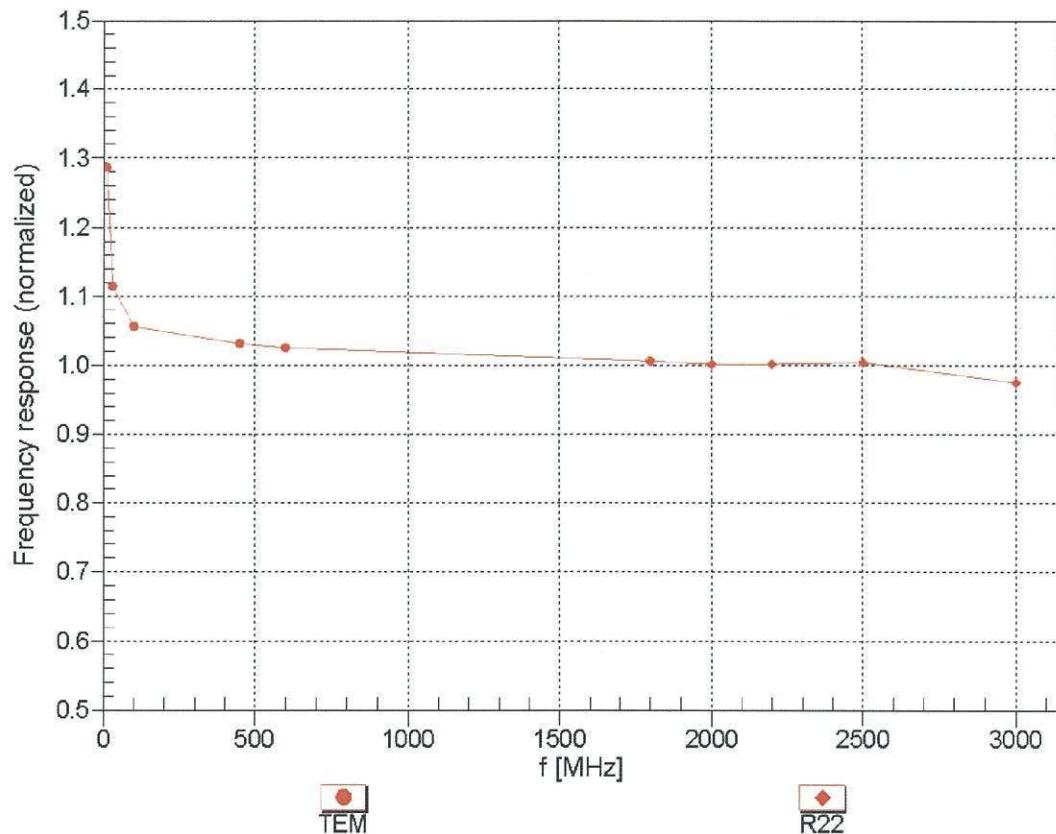
<sup>C</sup> Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band..

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## Frequency Response of E-Field

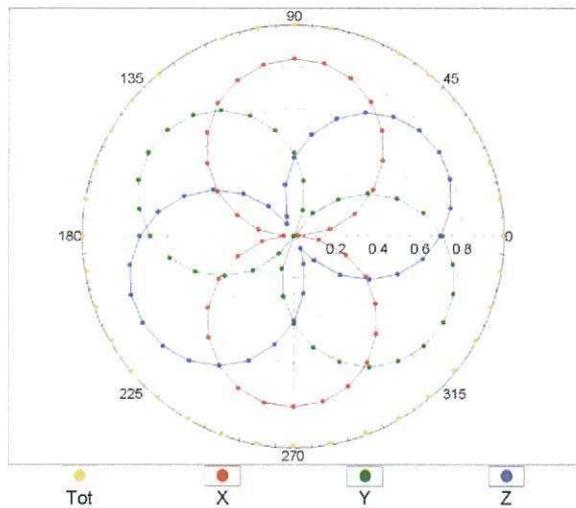
(TEM-Cell:ifi110 EXX, Waveguide: R22)



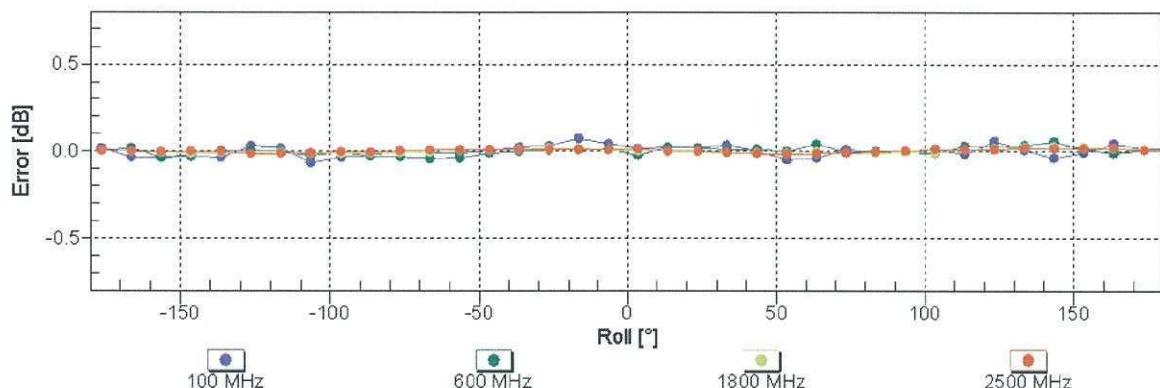
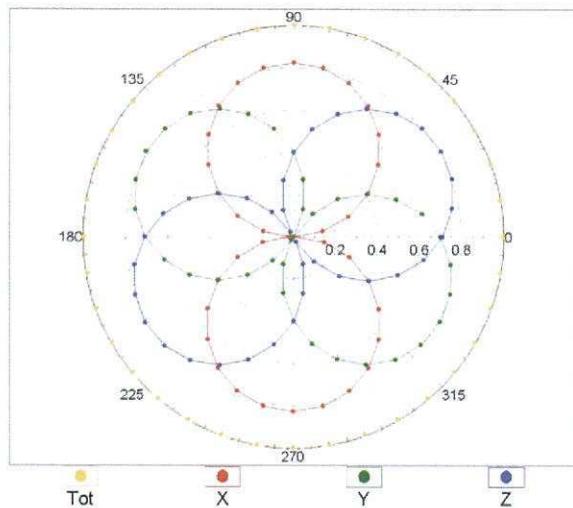
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

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

f=600 MHz, TEM



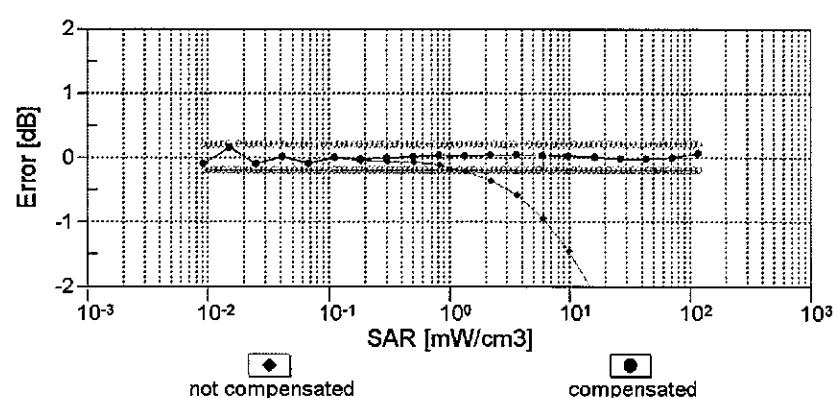
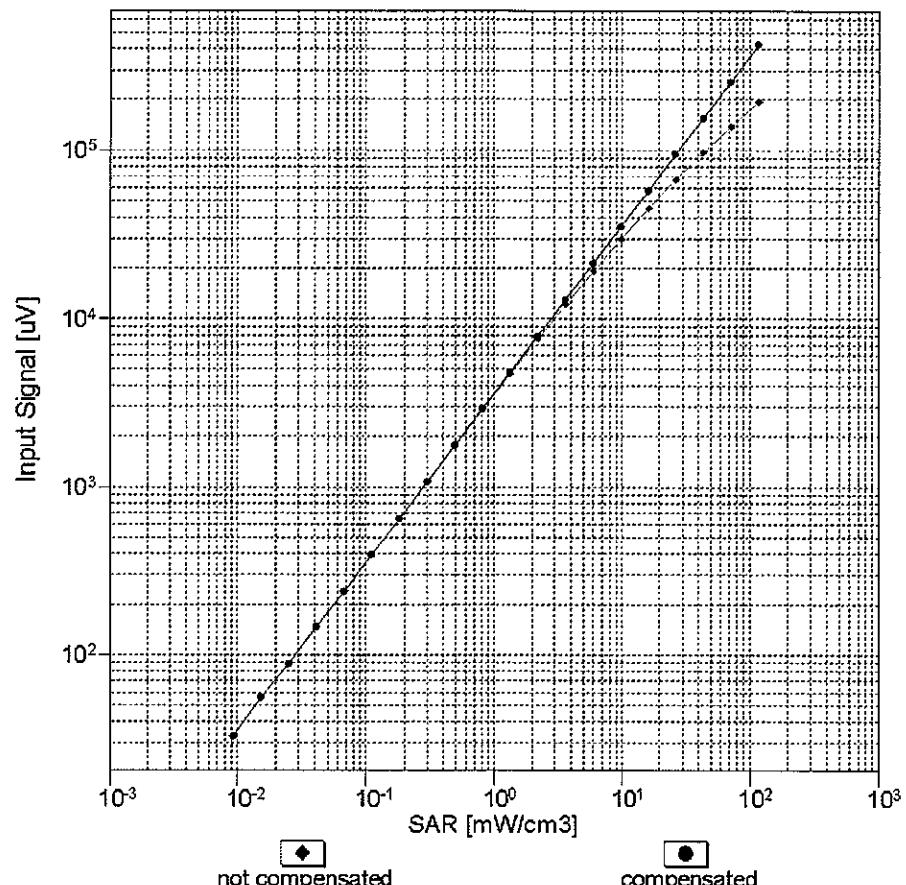
f=1800 MHz, R22



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

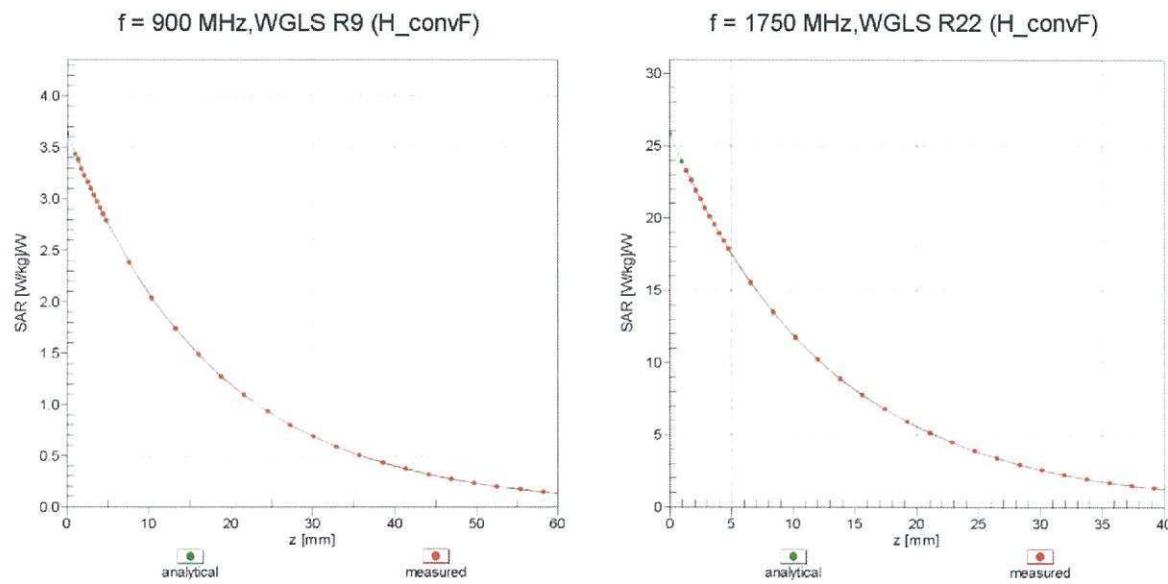
## Dynamic Range f(SAR<sub>head</sub>)

(TEM cell , f<sub>eval</sub>= 1900 MHz)

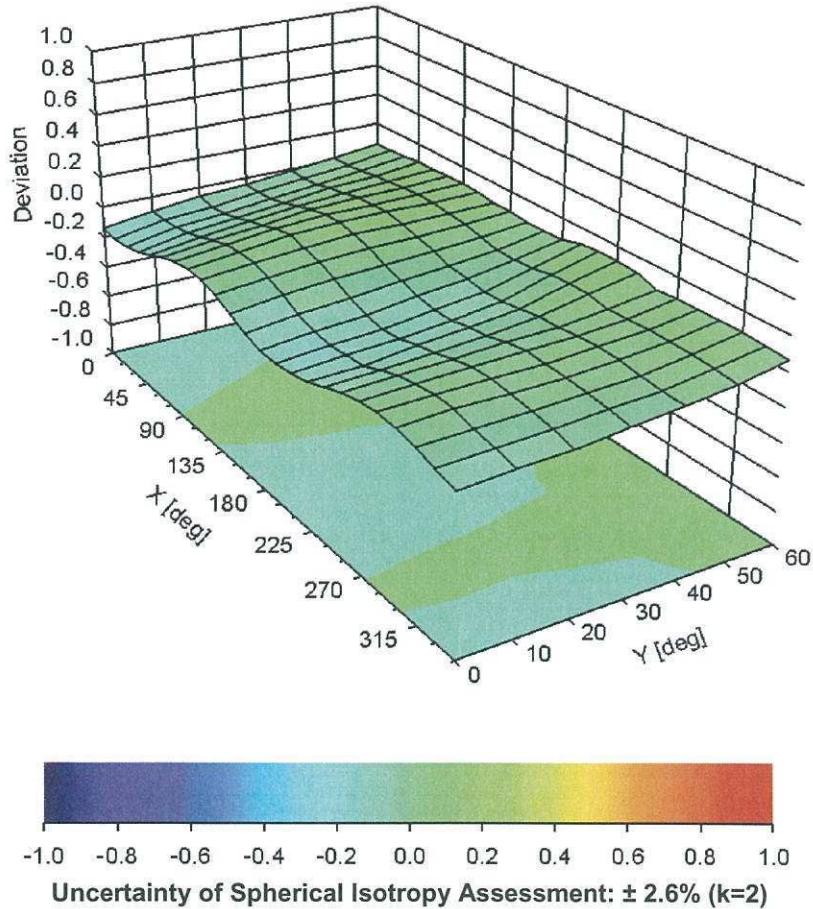


**Uncertainty of Linearity Assessment: ± 0.6% (k=2)**

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid Error ( $\phi, \theta$ ), $f = 900 \text{ MHz}$



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3665

### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-106.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	2 mm

## IMPORTANT NOTICE

### USAGE OF THE DAE 4

The DAE unit is a delicate, high precision instrument and requires careful treatment by the user. There are no serviceable parts inside the DAE. Special attention shall be given to the following points:

**Battery Exchange:** The battery cover of the DAE4 unit is closed using a screw, over tightening the screw may cause the threads inside the DAE to wear out.

**Shipping of the DAE:** Before shipping the DAE to SPEAG for calibration, remove the batteries and pack the DAE in an antistatic bag. This antistatic bag shall then be packed into a larger box or container which protects the DAE from impacts during transportation. The package shall be marked to indicate that a fragile instrument is inside.

**E-Stop Failures:** Touch detection may be malfunctioning due to broken magnets in the E-stop. Rough handling of the E-stop may lead to damage of these magnets. Touch and collision errors are often caused by dust and dirt accumulated in the E-stop. To prevent E-stop failure, the customer shall always mount the probe to the DAE carefully and keep the DAE unit in a non-dusty environment if not used for measurements.

**Repair:** Minor repairs are performed at no extra cost during the annual calibration. However, SPEAG reserves the right to charge for any repair especially if rough unprofessional handling caused the defect.

**DASY Configuration Files:** Since the exact values of the DAE input resistances, as measured during the calibration procedure of a DAE unit, are not used by the DASY software, a nominal value of 200 M $\Omega$  is given in the corresponding configuration file.

**Important Note:**

**Warranty and calibration is void if the DAE unit is disassembled partly or fully by the Customer.**

**Important Note:**

**Never attempt to grease or oil the E-stop assembly. Cleaning and readjusting of the E-stop assembly is allowed by certified SPEAG personnel only and is part of the annual calibration procedure.**

**Important Note:**

**To prevent damage of the DAE probe connector pins, use great care when installing the probe to the DAE. Carefully connect the probe with the connector notch oriented in the mating position. Avoid any rotational movement of the probe body versus the DAE while turning the locking nut of the connector. The same care shall be used when disconnecting the probe from the DAE.**



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Client **CCS - TW (Auden)**

Accreditation No.: **SCS 108**

Certificate No: **DAE4-877\_Mar14**

## CALIBRATION CERTIFICATE

Object **DAE4 - SD 000 D04 BJ - SN: 877**

Calibration procedure(s) **QA CAL-06.v26**  
 Calibration procedure for the data acquisition electronics (DAE)

Calibration date: **March 26, 2014**

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 ( $22 \pm 3$ )°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

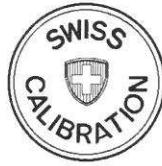
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	01-Oct-13 (No:13976)	Oct-14
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	07-Jan-14 (in house check)	In house check: Jan-15
Calibrator Box V2.1	SE UMS 006 AA 1002	07-Jan-14 (in house check)	In house check: Jan-15

Calibrated by: Name **Eric Hainfeld** Function **Technician** Signature

Approved by: Name **Fin Bomholt** Function **Deputy Technical Manager** Signature

Issued: March 26, 2014

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Accreditation No.: **SCS 108**

## Glossary

DAE	data acquisition electronics
Connector angle	information used in DASY system to align probe sensor X to the robot coordinate system.

## Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
  - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
  - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
  - *Input Offset Measurement:* Output voltage and statistical results over a large number of zero voltage measurements.
  - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
  - *Power consumption:* Typical value for information. Supply currents in various operating modes.

## DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 $\mu$ V , full range = -100...+300 mV

Low Range: 1LSB = 61nV , full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
<b>High Range</b>	$405.049 \pm 0.02\% \text{ (k=2)}$	$404.595 \pm 0.02\% \text{ (k=2)}$	$405.001 \pm 0.02\% \text{ (k=2)}$
<b>Low Range</b>	$3.99289 \pm 1.50\% \text{ (k=2)}$	$3.98120 \pm 1.50\% \text{ (k=2)}$	$3.97284 \pm 1.50\% \text{ (k=2)}$

## Connector Angle

Connector Angle to be used in DASY system	$206.0^\circ \pm 1^\circ$
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## Appendix

### 1. DC Voltage Linearity

High Range		Reading ( $\mu$ V)	Difference ( $\mu$ V)	Error (%)
Channel X	+ Input	200035.90	0.81	0.00
Channel X	+ Input	20008.13	3.69	0.02
Channel X	- Input	-20002.59	2.01	-0.01
Channel Y	+ Input	200033.31	-1.83	-0.00
Channel Y	+ Input	20005.83	1.46	0.01
Channel Y	- Input	-20005.17	-0.38	0.00
Channel Z	+ Input	200037.18	1.74	0.00
Channel Z	+ Input	20004.61	0.21	0.00
Channel Z	- Input	-20004.82	-0.03	0.00

Low Range		Reading ( $\mu$ V)	Difference ( $\mu$ V)	Error (%)
Channel X	+ Input	2000.37	-0.68	-0.03
Channel X	+ Input	201.67	0.43	0.22
Channel X	- Input	-198.23	0.56	-0.28
Channel Y	+ Input	2001.86	0.91	0.05
Channel Y	+ Input	201.14	-0.07	-0.03
Channel Y	- Input	-198.43	0.49	-0.25
Channel Z	+ Input	2000.54	-0.46	-0.02
Channel Z	+ Input	199.12	-1.98	-0.99
Channel Z	- Input	-200.37	-1.43	0.72

### 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading ( $\mu$ V)	Low Range Average Reading ( $\mu$ V)
Channel X	200	14.54	13.31
	-200	-11.40	-12.95
Channel Y	200	-19.84	-20.25
	-200	19.79	19.75
Channel Z	200	19.30	19.18
	-200	-23.23	-23.06

### 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X ( $\mu$ V)	Channel Y ( $\mu$ V)	Channel Z ( $\mu$ V)
Channel X	200	-	1.00	-3.19
Channel Y	200	6.66	-	2.09
Channel Z	200	8.79	4.53	-

#### 4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	15994	17224
Channel Y	15872	16182
Channel Z	15669	15233

#### 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input  $10M\Omega$

	Average ( $\mu V$ )	min. Offset ( $\mu V$ )	max. Offset ( $\mu V$ )	Std. Deviation ( $\mu V$ )
Channel X	1.26	-0.23	2.87	0.61
Channel Y	0.20	-1.19	1.59	0.55
Channel Z	-1.09	-2.38	0.38	0.61

#### 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

#### 7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

#### 8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

#### 9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9