

UR5 SAR Plots

Test Laboratory: KTL

835MHz Validation - D835V2; SN:481

***Test Date : 12th/June/2008**

Measured Liquid Temperature(℃) : 22.0, Ambient Temperature(℃) : 22.0

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 42.0$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1773; ConvF(6.32, 6.32, 6.32); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 2.62 mW/g

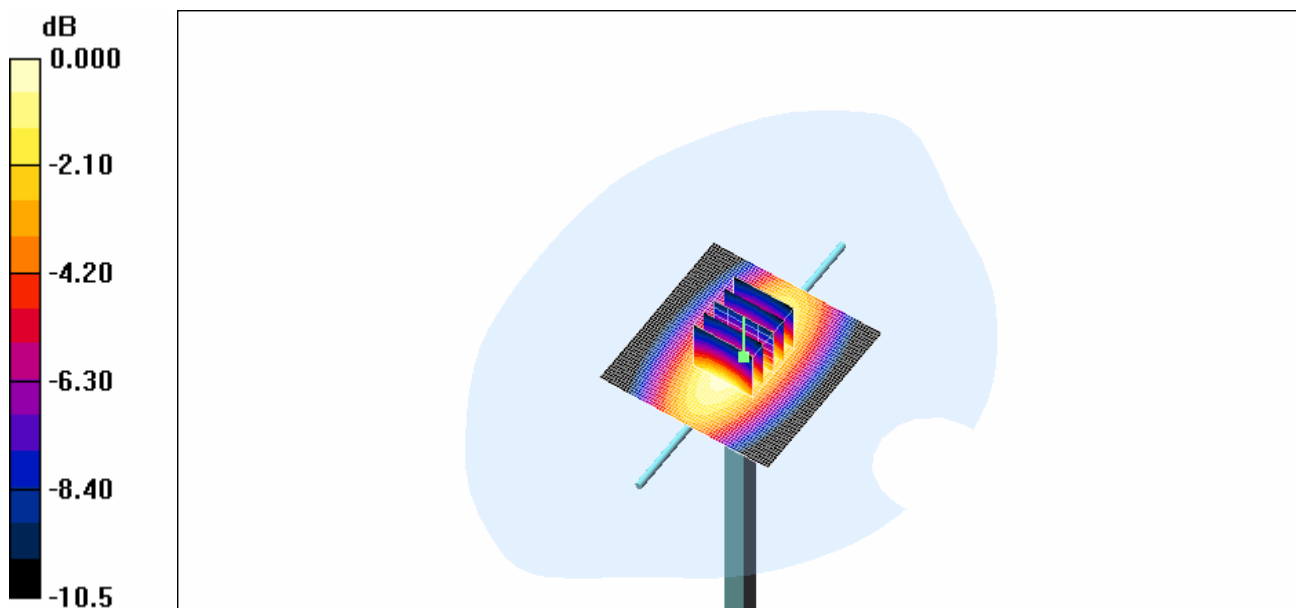
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 56.3 V/m ; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 3.65 W/kg

SAR(1 g) = 2.44 mW/g ; SAR(10 g) = 1.59 mW/g

Maximum value of SAR (measured) = 2.63 mW/g



0 dB = 2.63 mW/g

Test Laboratory: KTL

UR5 GSM850 Ch.128 LEFT Cheek Touch

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

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

Medium: HSL835 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 42.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.32, 6.32, 6.32); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 1.08 mW/g

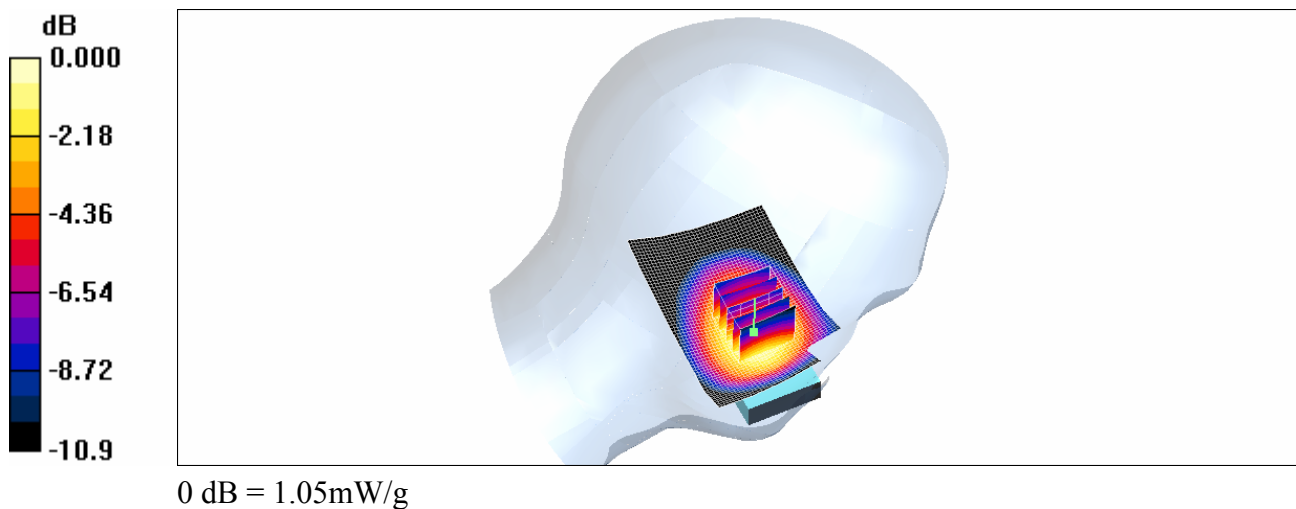
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.3 V/m ; Power Drift = 0.074 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.990 mW/g ; SAR(10 g) = 0.697 mW/g

Maximum value of SAR (measured) = 1.05 mW/g



Test Laboratory: KTL

UR5 GSM850 Ch.128 RIGHT Cheek Touch

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

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

Medium: HSL835 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 42.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.32, 6.32, 6.32); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.948 mW/g

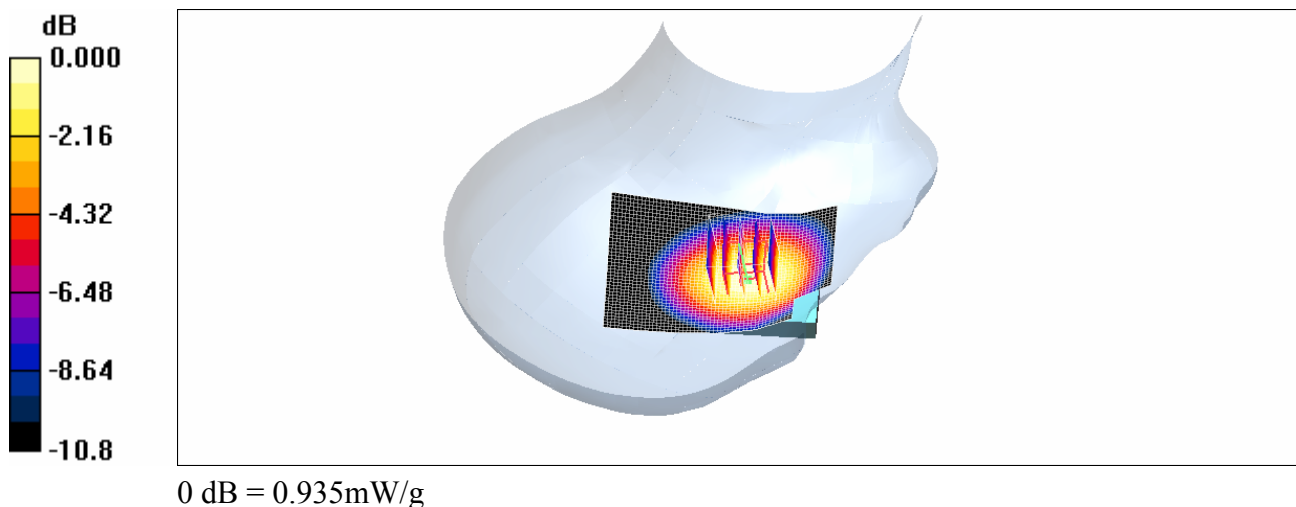
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.75 V/m; Power Drift = 0.076 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.883 mW/g; SAR(10 g) = 0.621 mW/g

Maximum value of SAR (measured) = 0.935 mW/g



Test Laboratory: KTL

UR5 GSM850 Ch.190 LEFT Cheek Touch

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.32, 6.32, 6.32); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

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

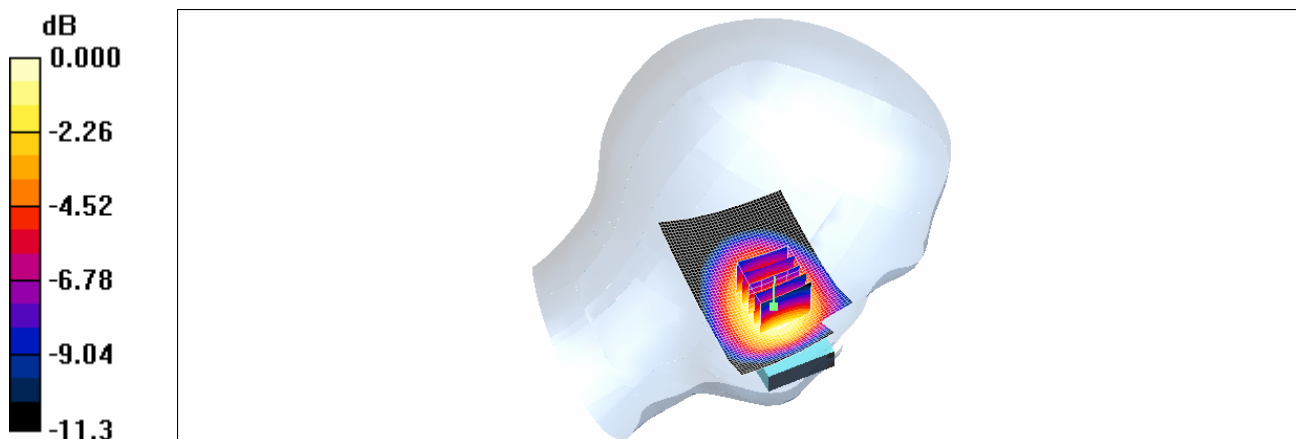
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.3 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.730 mW/g

Maximum value of SAR (measured) = 1.11 mW/g



0 dB = 1.11mW/g

Test Laboratory: KTL

UR5 GSM850 Ch.190 LEFT Ear Tilt

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.32, 6.32, 6.32); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.439 mW/g

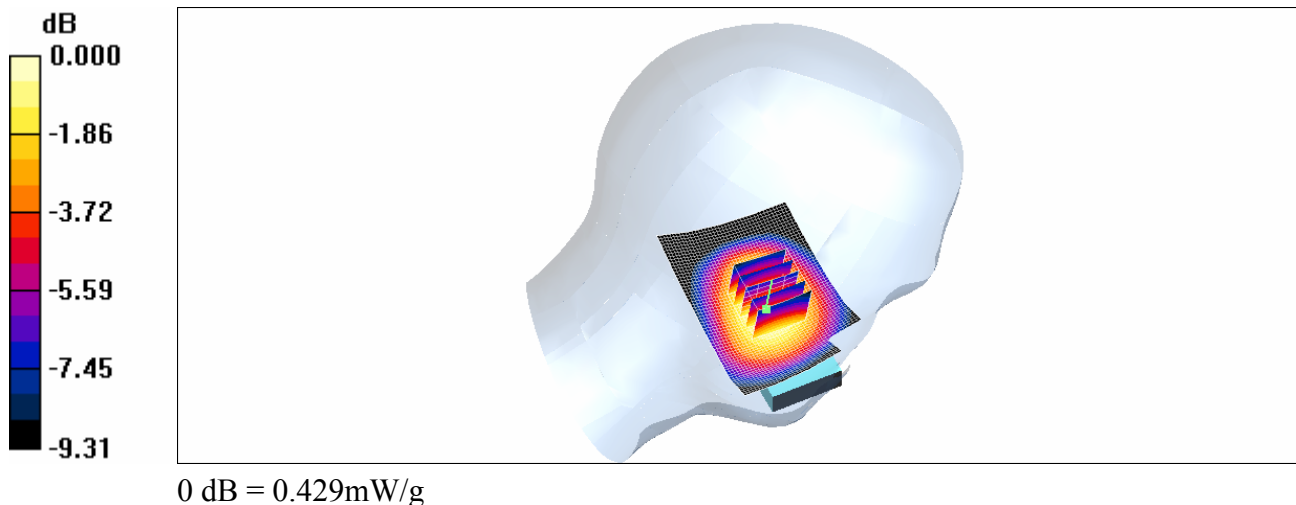
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.6 V/m ; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.537 W/kg

SAR(1 g) = 0.410 mW/g ; SAR(10 g) = 0.297 mW/g

Maximum value of SAR (measured) = 0.429 mW/g



Test Laboratory: KTL

UR5 GSM850 Ch.190 RIGHT Cheek Touch

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.32, 6.32, 6.32); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 1.16 mW/g

Z Scan (1x1x16): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=20\text{mm}$

Maximum value of SAR (interpolated) = 0.050 mW/g

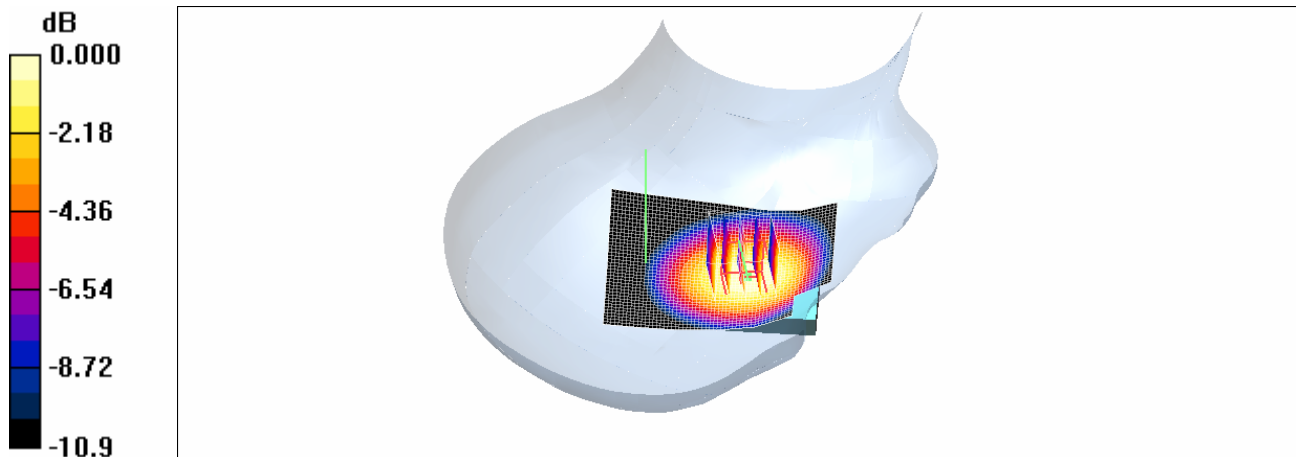
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.2 V/m; Power Drift = -0.038 dB

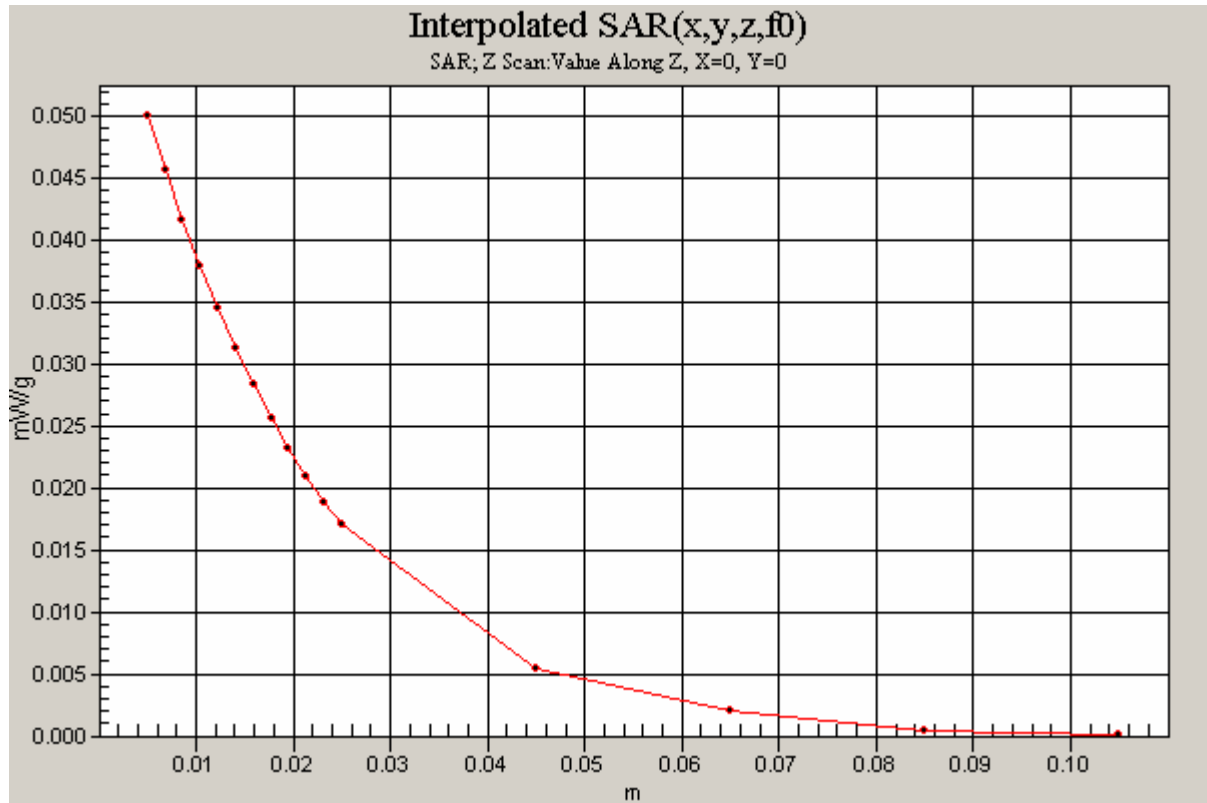
Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.733 mW/g

Maximum value of SAR (measured) = 1.12 mW/g



0 dB = 1.12mW/g



Test Laboratory: KTL

UR5 GSM850 Ch.190 RIGHT Ear Tilt

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.32, 6.32, 6.32); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.487 mW/g

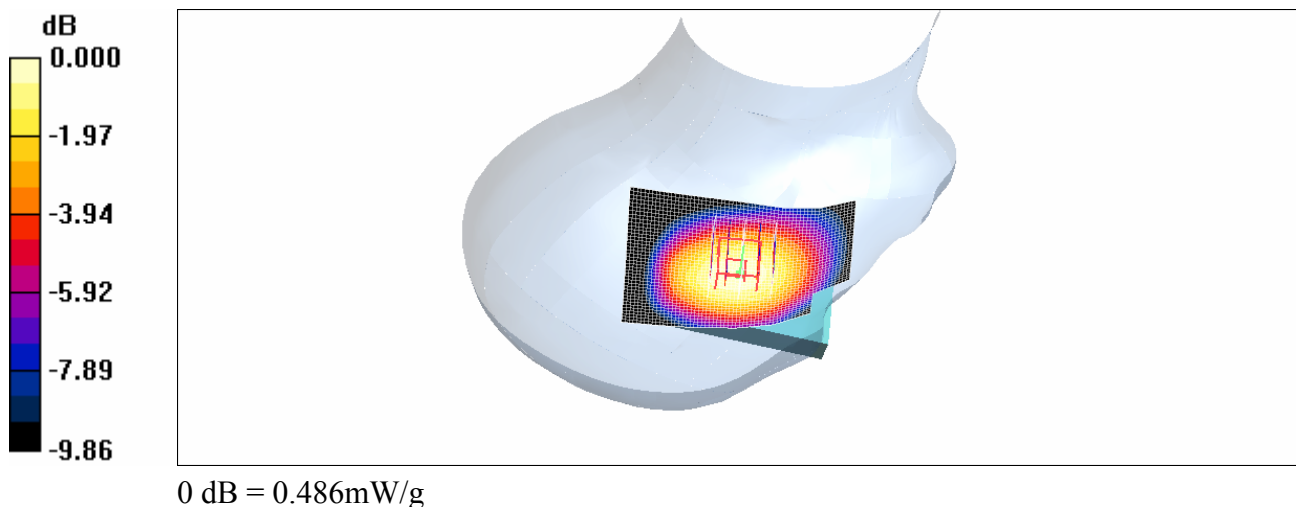
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.3 V/m ; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.598 W/kg

SAR(1 g) = 0.460 mW/g ; SAR(10 g) = 0.331 mW/g

Maximum value of SAR (measured) = 0.486 mW/g



Test Laboratory: KTL

UR5 GSM850 Ch.251 LEFT Cheek Touch

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

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

Medium: HSL835 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.912 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.32, 6.32, 6.32); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 1.05 mW/g

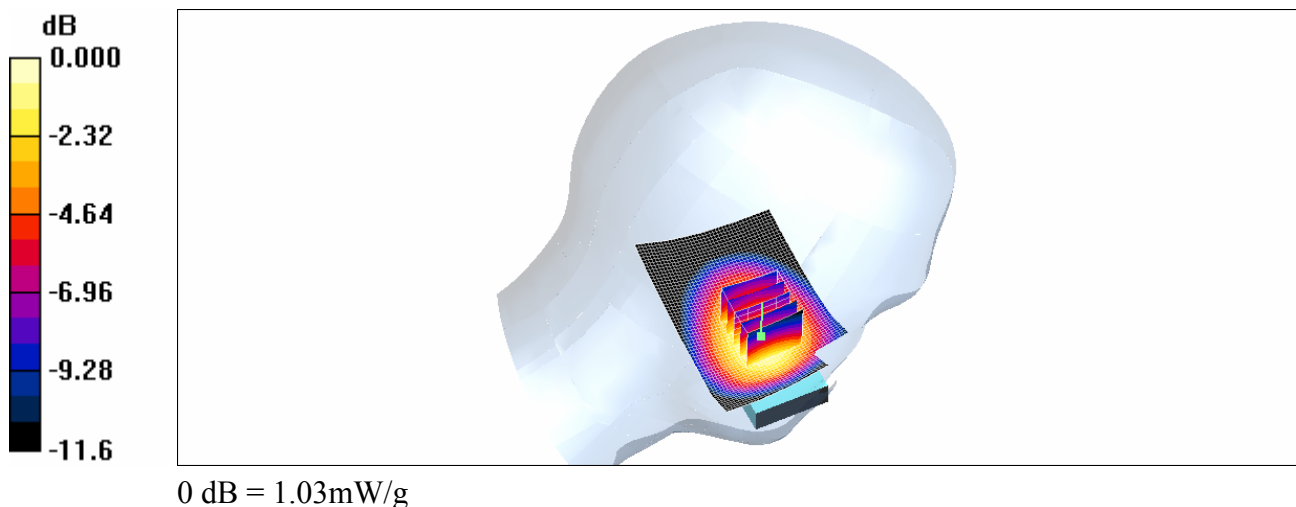
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.5 V/m; Power Drift = -0.073 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.964 mW/g; SAR(10 g) = 0.669 mW/g

Maximum value of SAR (measured) = 1.03 mW/g



Test Laboratory: KTL

UR5 GSM850 Ch.251 RIGHT Cheek Touch

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

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

Medium: HSL835 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 42.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.32, 6.32, 6.32); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

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

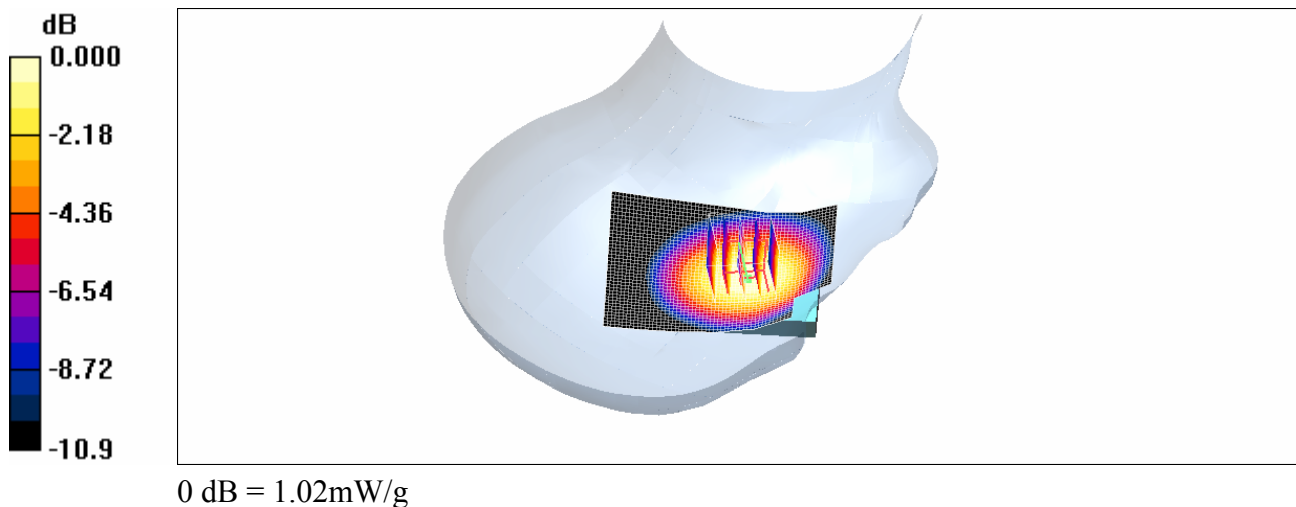
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.5 V/m ; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.967 mW/g ; SAR(10 g) = 0.677 mW/g

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



Test Laboratory: KTL

UR5 GSM850 Ch.190 BODY Rear facing Phantom

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.5, Ambient Temperature(°C) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.29, 6.29, 6.29); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.282 mW/g

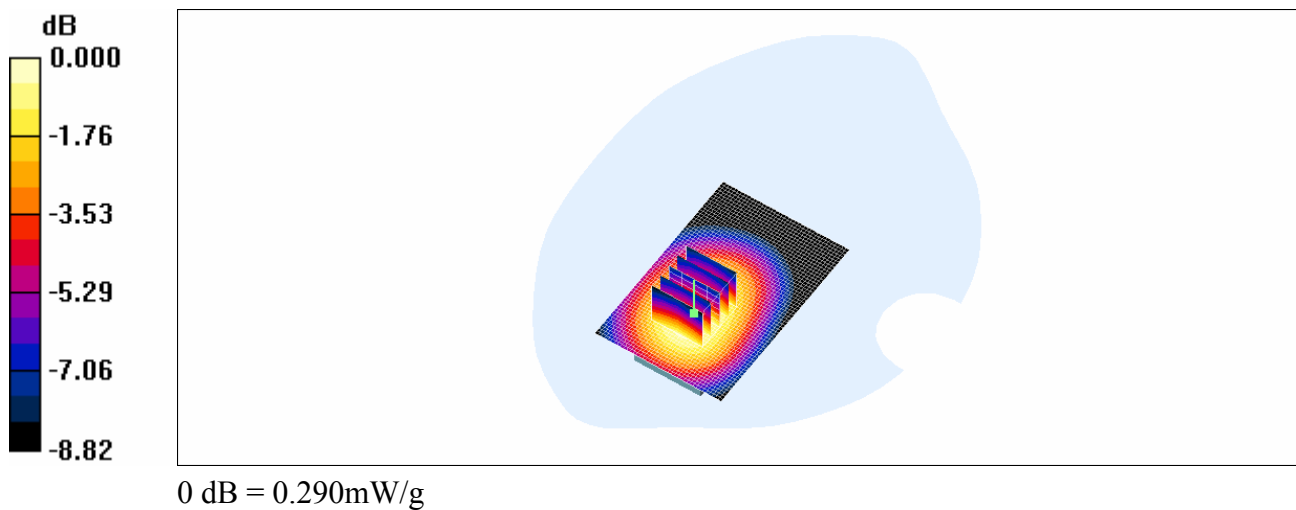
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.00 V/m ; Power Drift = -0.267 dB

Peak SAR (extrapolated) = 0.355 W/kg

SAR(1 g) = 0.272 mW/g ; SAR(10 g) = 0.197 mW/g

Maximum value of SAR (measured) = 0.290 mW/g



Test Laboratory: KTL

UR5 GSM850 Ch.190 BODY Front facing Phantom

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.5, Ambient Temperature(°C) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: HSL835 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.29, 6.29, 6.29); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.201 mW/g

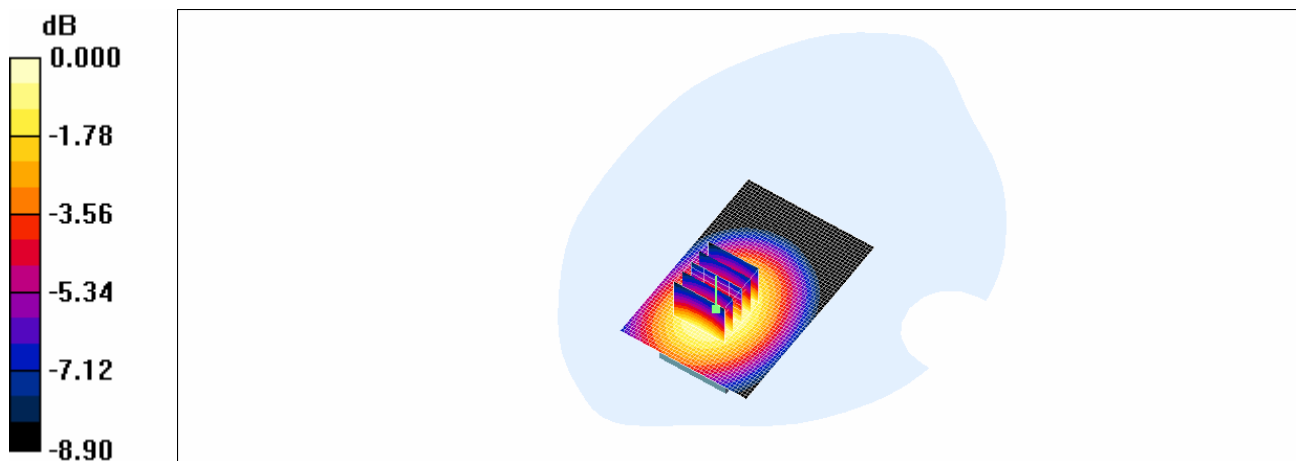
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.46 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.252 W/kg

SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.142 mW/g

Maximum value of SAR (measured) = 0.206 mW/g



0 dB = 0.206mW/g

Test Laboratory: KTL

UR5 GPRS850 Ch.128 BODY Rear facing Phantom

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.5, Ambient Temperature(°C) : 22.0

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:2.075

Medium: HSL835 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.29, 6.29, 6.29); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

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

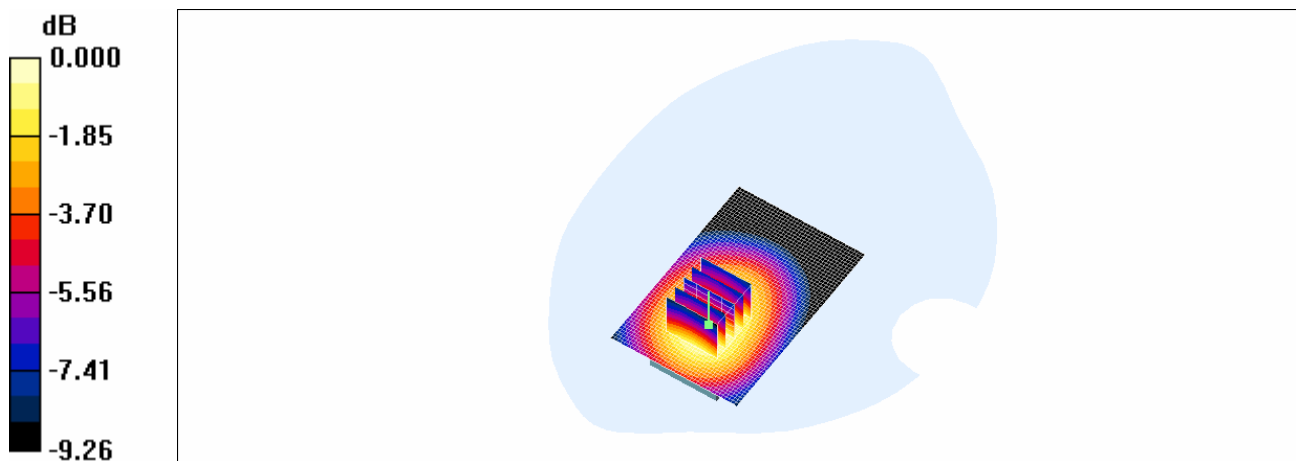
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.7 V/m; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 1 mW/g; SAR(10 g) = 0.728 mW/g

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



0 dB = 1.07mW/g

Test Laboratory: KTL

UR5 GPRS850 Ch.190 BODY Rear facing Phantom

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.5, Ambient Temperature(°C) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:2.075

Medium: HSL835 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.29, 6.29, 6.29); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

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

Z Scan (1x1x16): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=20\text{mm}$

Maximum value of SAR (interpolated) = 0.130 mW/g

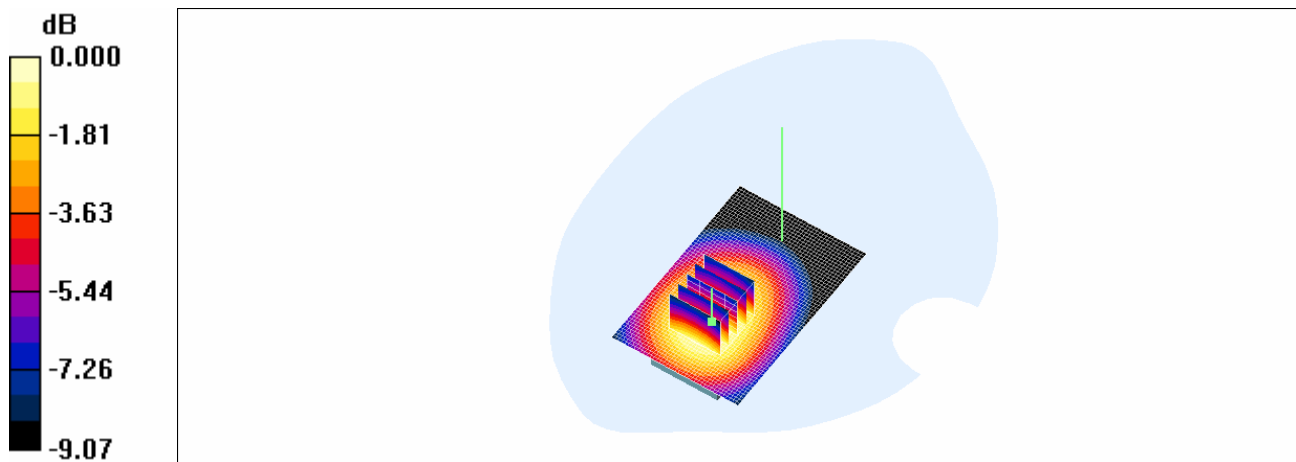
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.0 V/m ; Power Drift = -0.220 dB

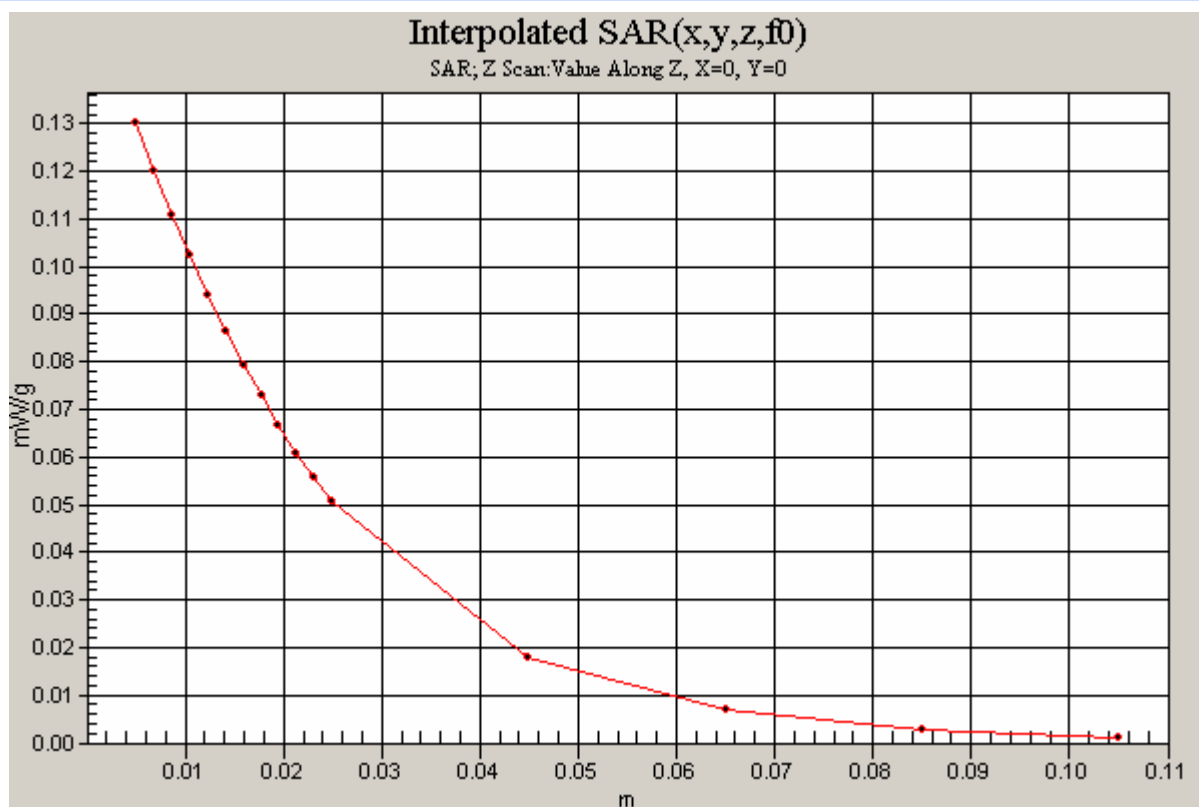
Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 1.1 mW/g ; SAR(10 g) = 0.805 mW/g

Maximum value of SAR (measured) = 1.17 mW/g



0 dB = 1.17 mW/g



Test Laboratory: KTL

UR5 GPRS850 Ch.251 BODY Rear facing Phantom

***Test Date : 12th/June/2008**

Measured Liquid Temperature(°C) : 22.5, Ambient Temperature(°C) : 22.0

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:2.075

Medium: HSL835 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 53.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(6.29, 6.29, 6.29); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_835MHz; Type: SAM; Serial: TP-1276
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.989 mW/g

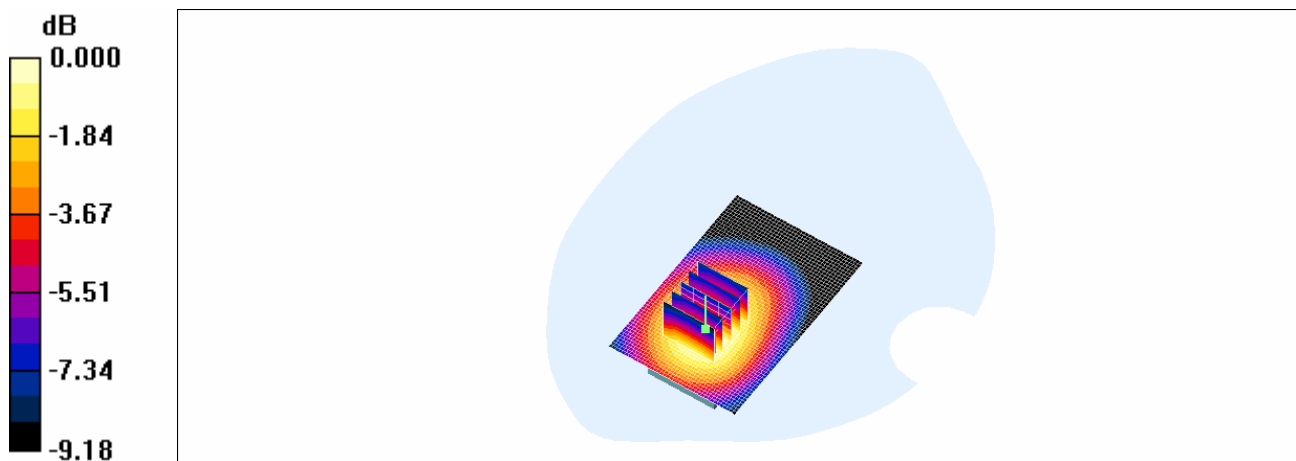
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.0 V/m ; Power Drift = -0.280 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.907 mW/g ; SAR(10 g) = 0.653 mW/g

Maximum value of SAR (measured) = 0.979 mW/g



0 dB = 0.979 mW/g

Test Laboratory: KTL

1900MHz Validation D1900V2 S/N : 5d038

***Test Date : 13th/June/ 2008**

Measured Liquid Temperature(°C) : 21.5 , Ambient Temperature(°C) : 21.0

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

Medium: HSL1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(5, 5, 5); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of SAR (interpolated) = 11.4 mW/g

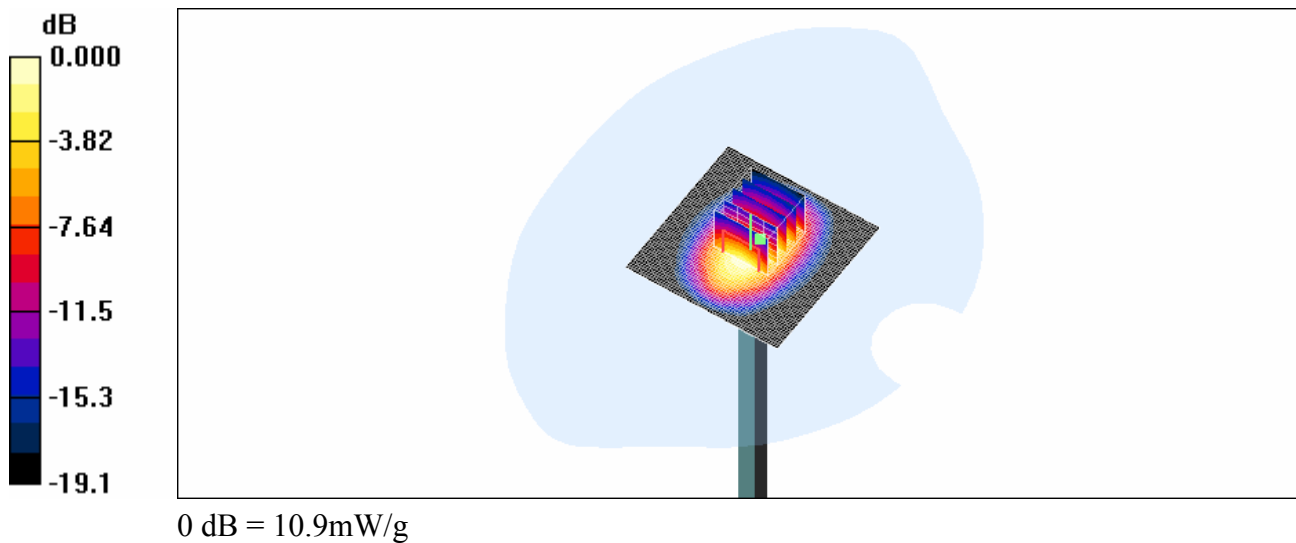
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 94.1 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 9.63 mW/g; SAR(10 g) = 5.09 mW/g

Maximum value of SAR (measured) = 10.9 mW/g



Test Laboratory: KTL

UR5 GSM1900 Ch.128 LEFT Cheek Touch

***Test Date : 13th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

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

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.37 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(5, 5, 5); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.631 mW/g

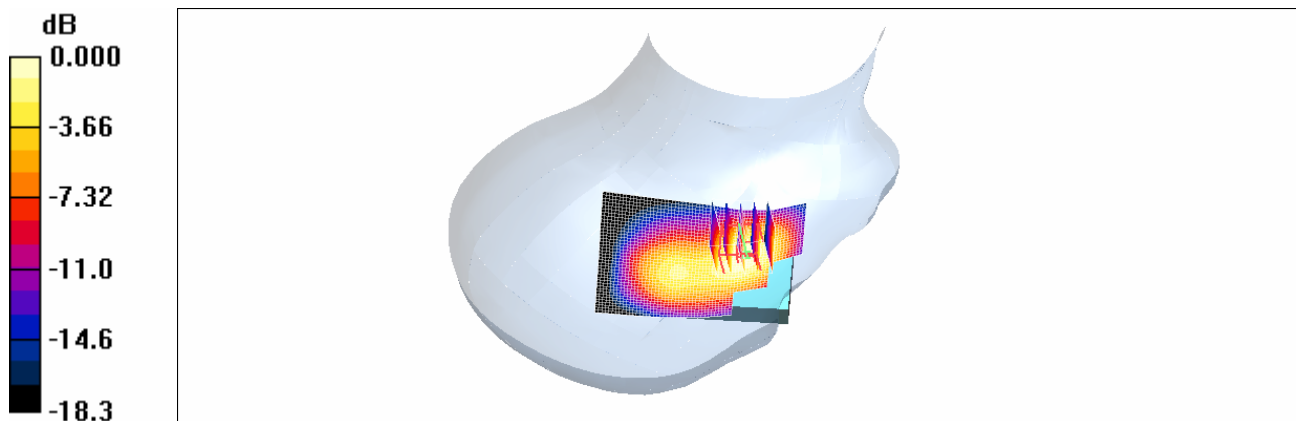
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.41 V/m ; Power Drift = 0.073 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.611 mW/g ; SAR(10 g) = 0.349 mW/g

Maximum value of SAR (measured) = 0.674 mW/g



0 dB = 0.674 mW/g

Test Laboratory: KTL

UR5 GSM1900 Ch.190 LEFT Cheek Touch

***Test Date : 13th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.37 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(5, 5, 5); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.605 mW/g

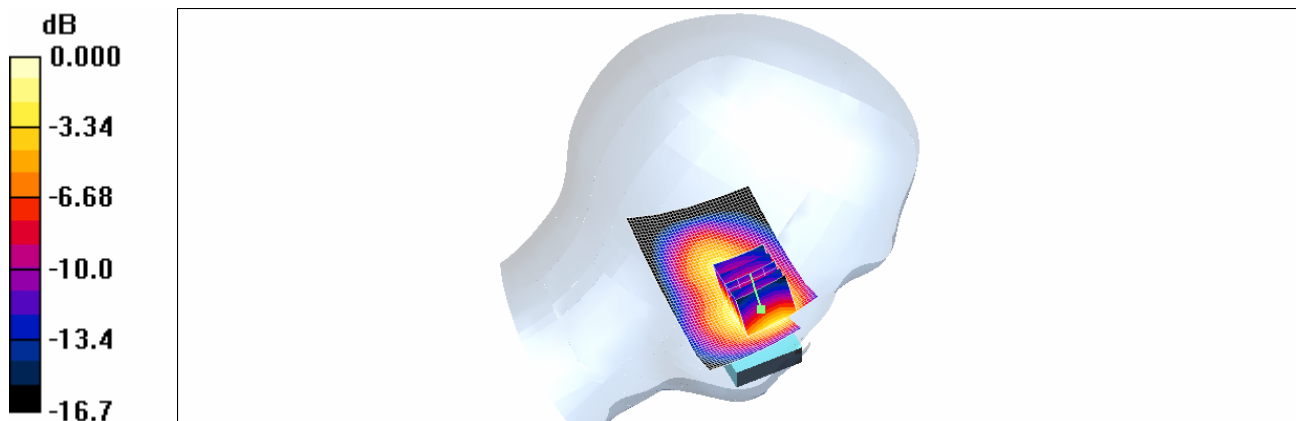
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.56 V/m ; Power Drift = 0.135 dB

Peak SAR (extrapolated) = 0.866 W/kg

SAR(1 g) = 0.560 mW/g ; SAR(10 g) = 0.333 mW/g

Maximum value of SAR (measured) = 0.607 mW/g



0 dB = 0.607 mW/g

Test Laboratory: KTL

UR5 GSM1900 Ch.190 LEFT Ear Tilt

***Test Date : 13th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.37 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(5, 5, 5); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.212 mW/g

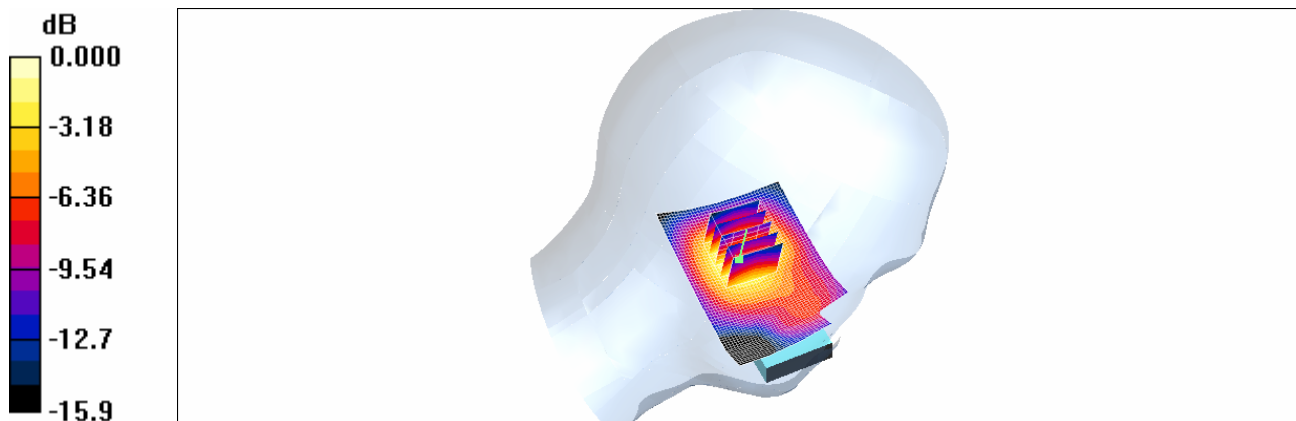
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.21 V/m ; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.199 mW/g ; SAR(10 g) = 0.123 mW/g

Maximum value of SAR (measured) = 0.209 mW/g



0 dB = 0.209 mW/g

Test Laboratory: KTL

UR5 GSM1900 Ch.190 RIGHT Cheek Touch

***Test Date : 13th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.37 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(5, 5, 5); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.635 mW/g

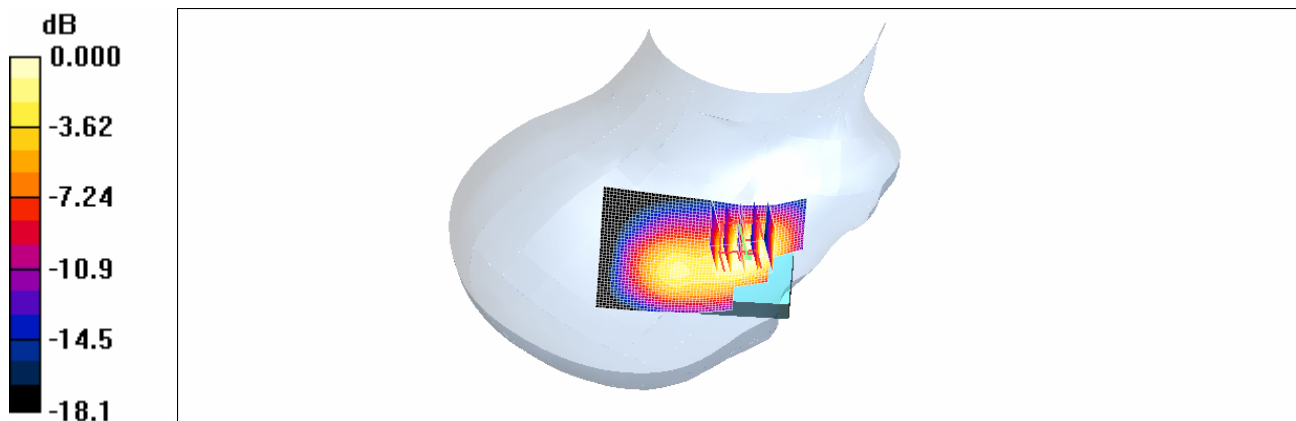
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.02 V/m ; Power Drift = 0.087 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.621 mW/g ; SAR(10 g) = 0.356 mW/g

Maximum value of SAR (measured) = 0.669 mW/g



0 dB = 0.669 mW/g

Test Laboratory: KTL

UR5 GSM1900 Ch.190 RIGHT Cheek Touch

***Test Date : 13th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.37 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(5, 5, 5); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.281 mW/g

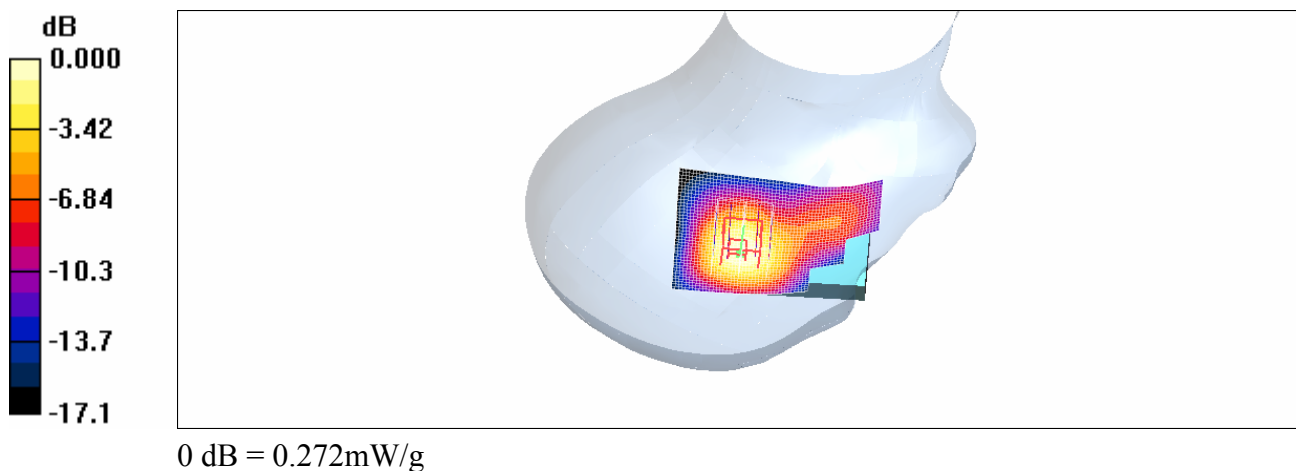
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.98 V/m ; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 0.389 W/kg

SAR(1 g) = 0.251 mW/g ; SAR(10 g) = 0.150 mW/g

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



Test Laboratory: KTL

UR5 GSM1900 Ch.251 RIGHT Cheek Touch

***Test Date : 13th/June/2008**

Measured Liquid Temperature(°C) : 22.0, Ambient Temperature(°C) : 22.0

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

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 39.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(5, 5, 5); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.653 mW/g

Z Scan (1x1x16): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=20\text{mm}$

Maximum value of SAR (interpolated) = 0.039 mW/g

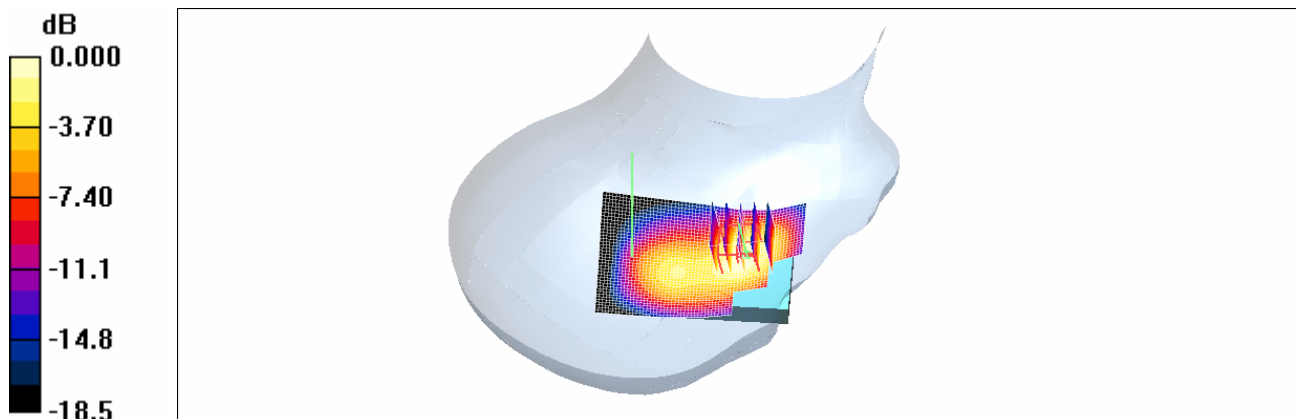
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.57 V/m; Power Drift = 0.028 dB

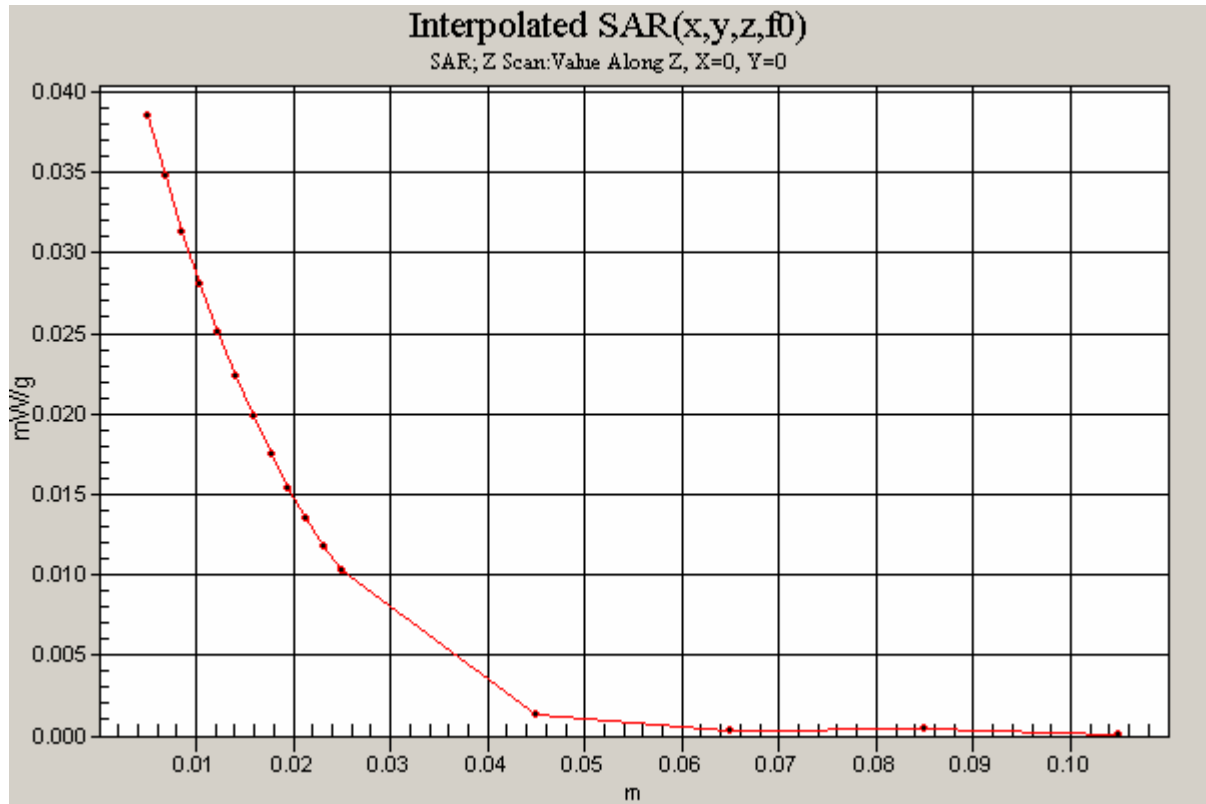
Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.631 mW/g; SAR(10 g) = 0.359 mW/g

Maximum value of SAR (measured) = 0.696 mW/g



0 dB = 0.696mW/g



Test Laboratory: KTL

UR5 GSM1900 Ch.661 BODY Rear facing Phantom

***Test Date : 13th/June/2008**

Measured Liquid Temperature(°C) : 22.5, Ambient Temperature(°C) : 22.0

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.51 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.4, 4.4, 4.4); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.227 mW/g

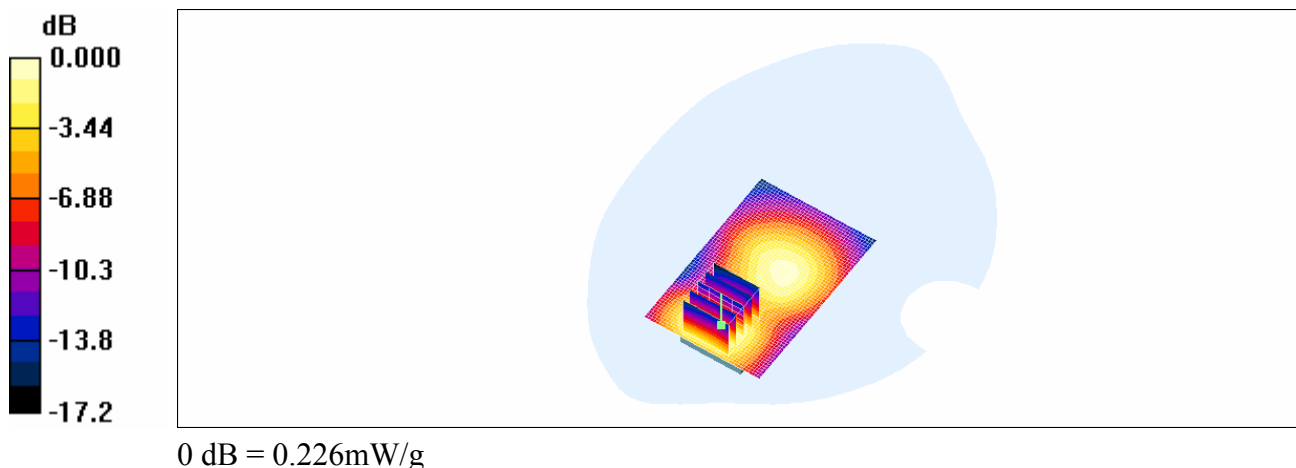
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.51 V/m; Power Drift = 0.087 dB

Peak SAR (extrapolated) = 0.375 W/kg

SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.226 mW/g



Test Laboratory: KTL

UR5 GSM1900 Ch.661 BODY Front facing Phantom

***Test Date : 13th/June/2008**

Measured Liquid Temperature(°C) : 22.5, Ambient Temperature(°C) : 22.0

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.51 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.4, 4.4, 4.4); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.223 mW/g

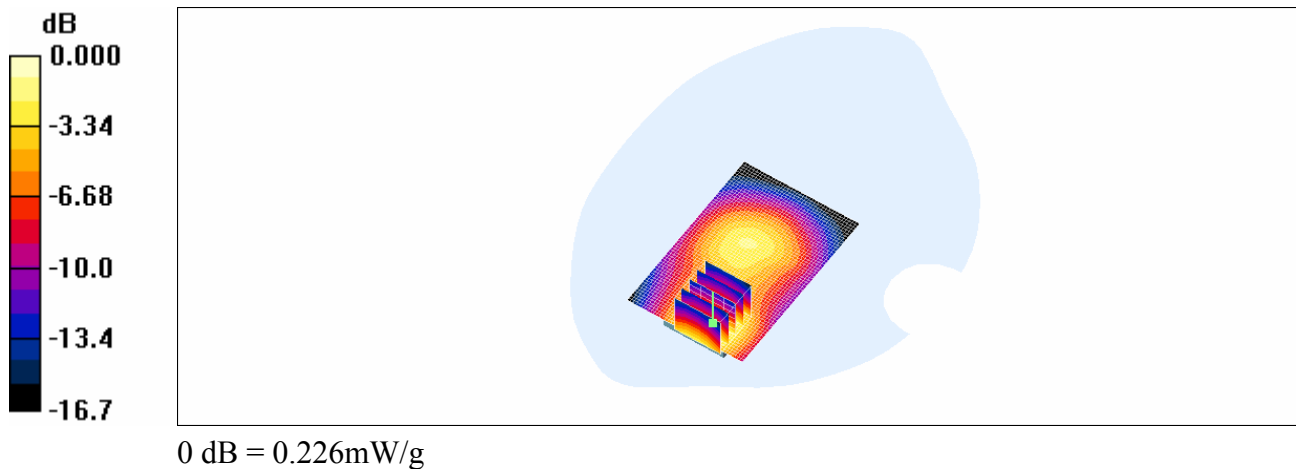
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.26 V/m ; Power Drift = -0.253 dB

Peak SAR (extrapolated) = 0.340 W/kg

SAR(1 g) = 0.207 mW/g ; SAR(10 g) = 0.121 mW/g

Maximum value of SAR (measured) = 0.226 mW/g



Test Laboratory: KTL

UR5 GPRS1900 Ch.512 BODY Rear facing Phantom

***Test Date : 13th/June/2008**

Measured Liquid Temperature(°C) : 22.5, Ambient Temperature(°C) : 22.0

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2.075

Medium: HSL1900 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.4, 4.4, 4.4); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.675 mW/g

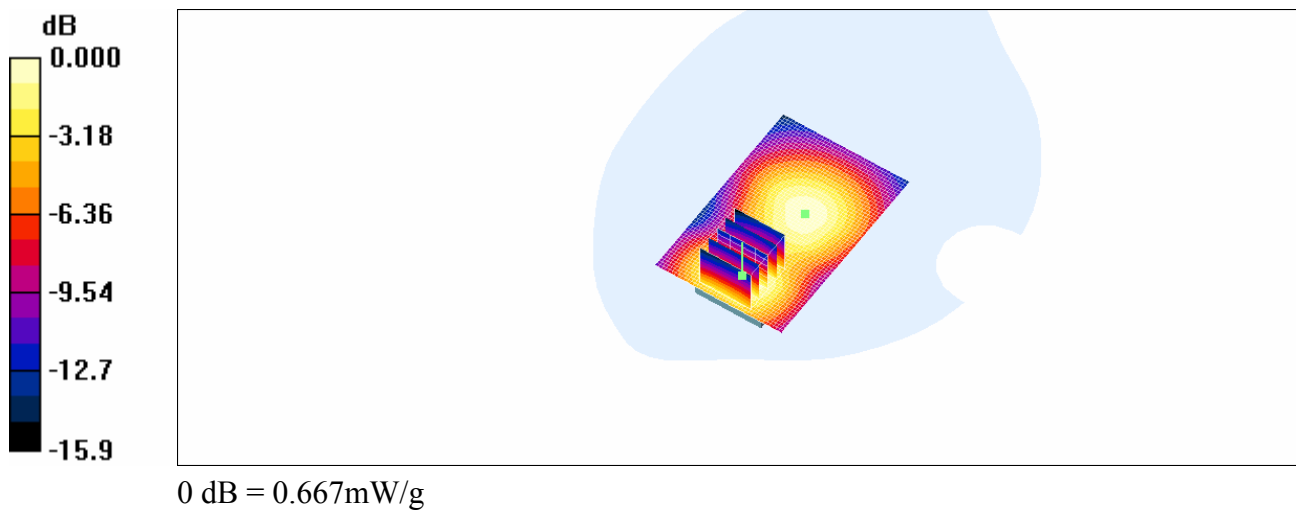
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.623 mW/g; SAR(10 g) = 0.360 mW/g

Maximum value of SAR (measured) = 0.667 mW/g



Test Laboratory: KTL

UR5 GPRS1900 Ch.661 BODY Rear facing Phantom

***Test Date : 13th/June/2008**

Measured Liquid Temperature(°C) : 22.5, Ambient Temperature(°C) : 22.0

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2.075

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.51 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.4, 4.4, 4.4); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.705 mW/g

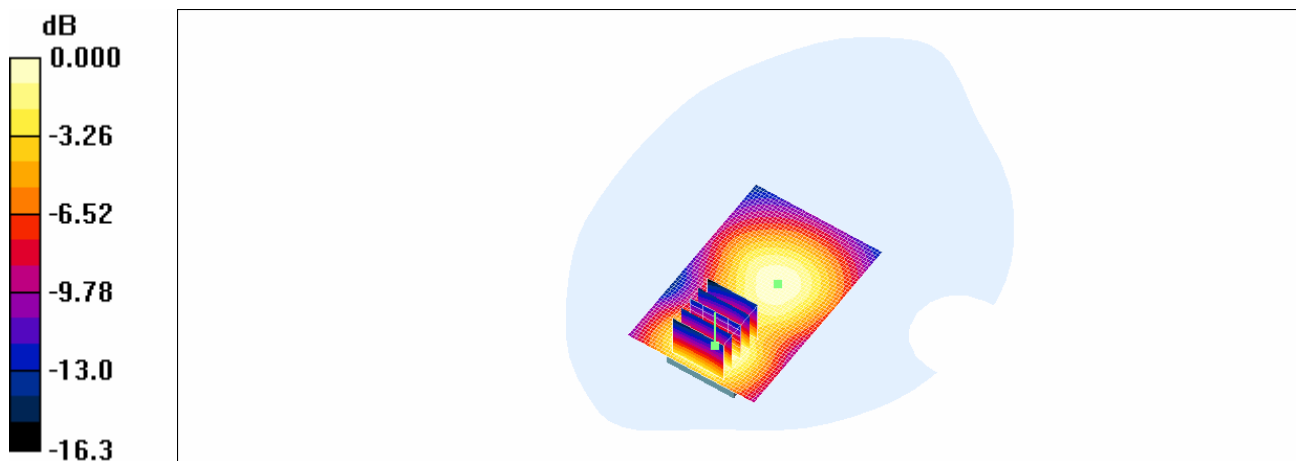
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.9 V/m; Power Drift = -0.092 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.651 mW/g; SAR(10 g) = 0.375 mW/g

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



0 dB = 0.699mW/g

Test Laboratory: KTL

UR5 GPRS1900 Ch.810 BODY Rear facing Phantom

***Test Date : 13th/June/2008**

Measured Liquid Temperature(°C) : 22.5, Ambient Temperature(°C) : 22.0

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2.075

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3020; ConvF(4.4, 4.4, 4.4); Calibrated: 2007-07-18
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn559; Calibrated: 2008-03-13
- Phantom: SAM Twin Phantom_1800MHz; Type: SAM; Serial: TP-1433
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

Area Scan (41x61x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.833 mW/g

Z Scan (1x1x16): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=20\text{mm}$

Maximum value of SAR (interpolated) = 0.130 mW/g

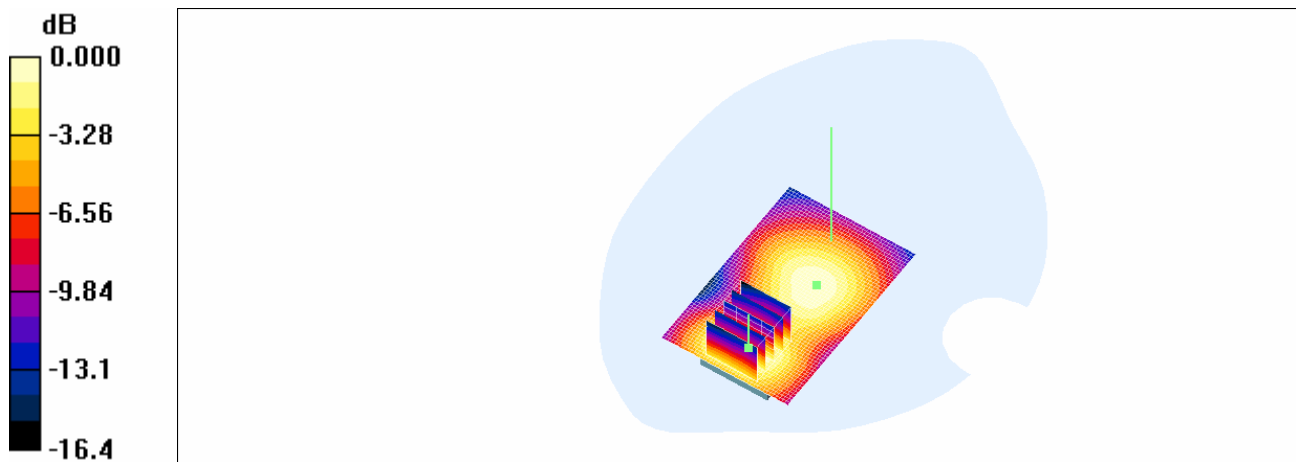
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.1 V/m ; Power Drift = 0.049 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.768 mW/g ; SAR(10 g) = 0.445 mW/g

Maximum value of SAR (measured) = 0.821 mW/g



0 dB = 0.821 mW/g

