Appendix A. SAR PLOTS

Test Laboratory: KTL

835MHz Validation – D835V2; SN:481

*Test Date : 18th/Dec/2008

Measured Liquid Temperature(℃) : 22.3 , Ambient Temperature(℃) : 22.0

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: HSL835 Medium parameters used: f = 835 MHz; σ = 0.91 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(6.12, 6.12, 6.12); Calibrated: 2008-07-21

- 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 (61x91x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 2.70 mW/g

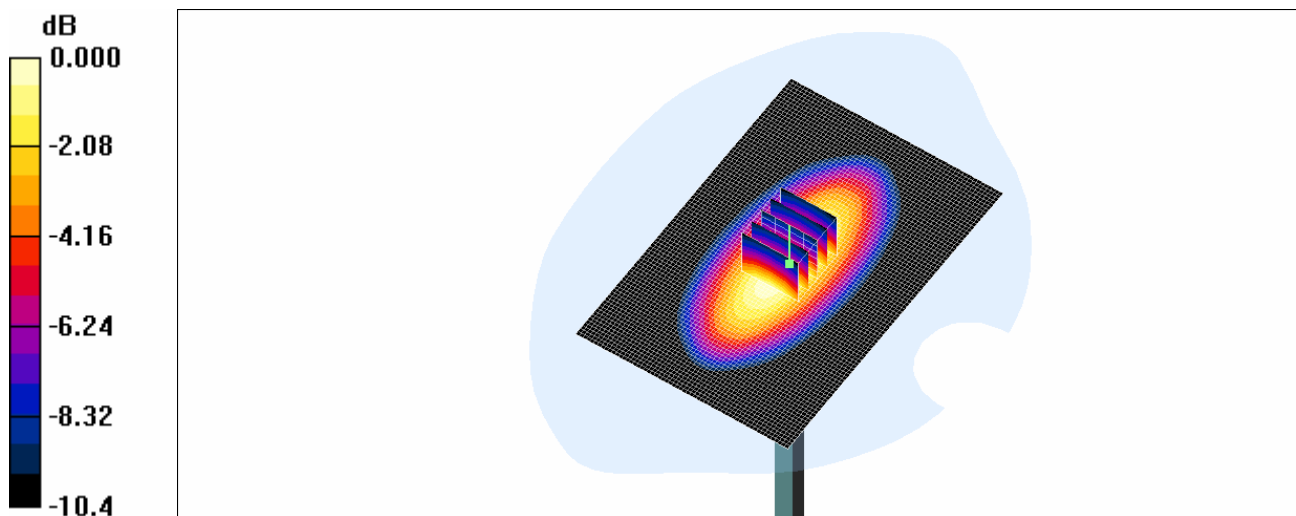## Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.1 V/m; Power Drift = -0.036 dB
Peak SAR (extrapolated) = 3.56 W/kg
SAR(1 g) = 2.45 mW/g; SAR(10 g) = 1.61 mW/g
Maximum value of SAR (measured) = 2.65 mW/g

dB
0.000
-2.08
-4.16
-6.24
-8.32
-10.4

0 dB = 2.65mW/g

Test Laboratory: KTL

AT870 GSM850 Ch.190 LEFT CHEEK TOUCH

*Test Date : 18th/Dec/2008

Measured Liquid Temperature(℃) :22.5 , Ambient Temperature(℃) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: HSL835 Medium parameters used: f = 836.6 MHz; σ = 0.91 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(6.12, 6.12, 6.12); Calibrated: 2008-07-21

- 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 (61x81x1): Measurement grid: dx=20mm, dy=20mm
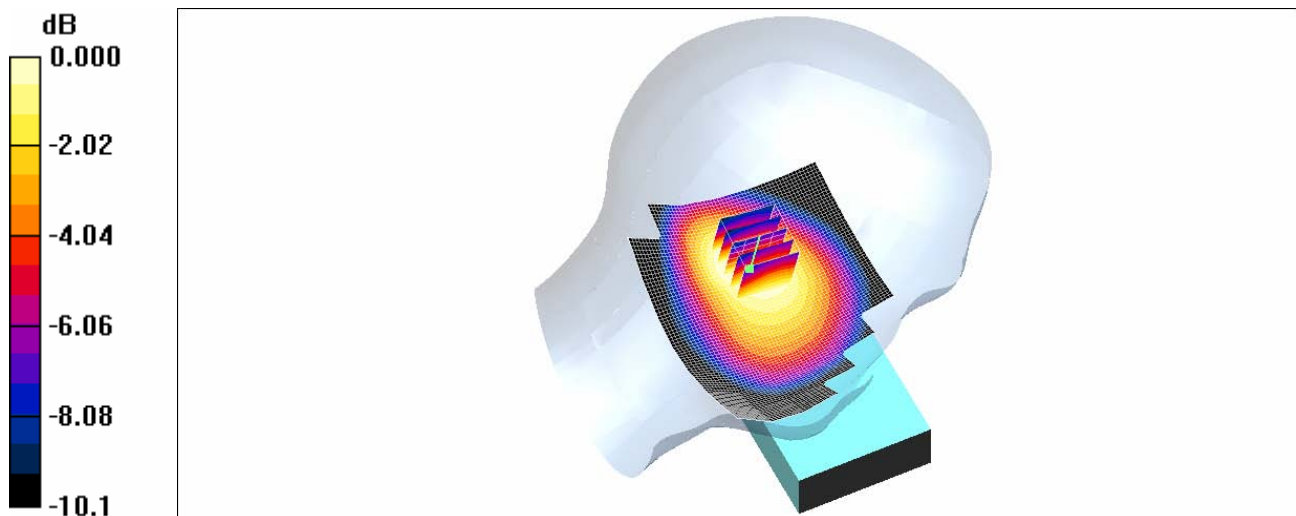Maximum value of SAR (interpolated) = 0.064 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.27 V/m; Power Drift = -0.071 dB
Peak SAR (extrapolated) = 0.077 W/kg
SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.043 mW/g
Maximum value of SAR (measured) = 0.061 mW/g

0 dB = 0.061mW/g

Test Laboratory: KTL

AT870 GSM850 Ch.190 LEFT EAR TILT
*Test Date : 18th/Dec/2008

Measured Liquid Temperature(℃) :22.5 , Ambient Temperature(℃) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: HSL835 Medium parameters used: f = 836.6 MHz; σ = 0.91 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(6.12, 6.12, 6.12); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.061 mW/g
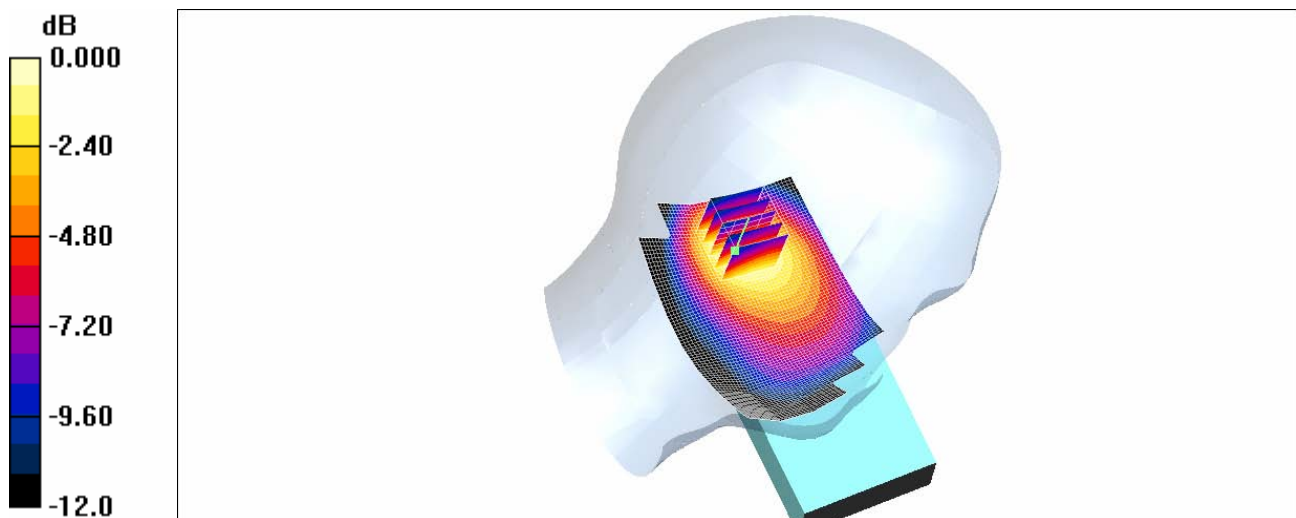**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.83 V/m; Power Drift = 0.011 dB
Peak SAR (extrapolated) = 0.079 W/kg
SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.039 mW/g
Maximum value of SAR (measured) = 0.061 mW/g

0 dB = 0.061mW/g

Test Laboratory: KTL

AT870 GSM850 Ch.190 RIGHT CHEEK TOUCH
*Test Date : 18th/Dec/2008

Measured Liquid Temperature(℃) :22.5 , Ambient Temperature(℃) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: HSL835 Medium parameters used: f = 836.6 MHz; σ = 0.91 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(6.12, 6.12, 6.12); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.085 mW/g

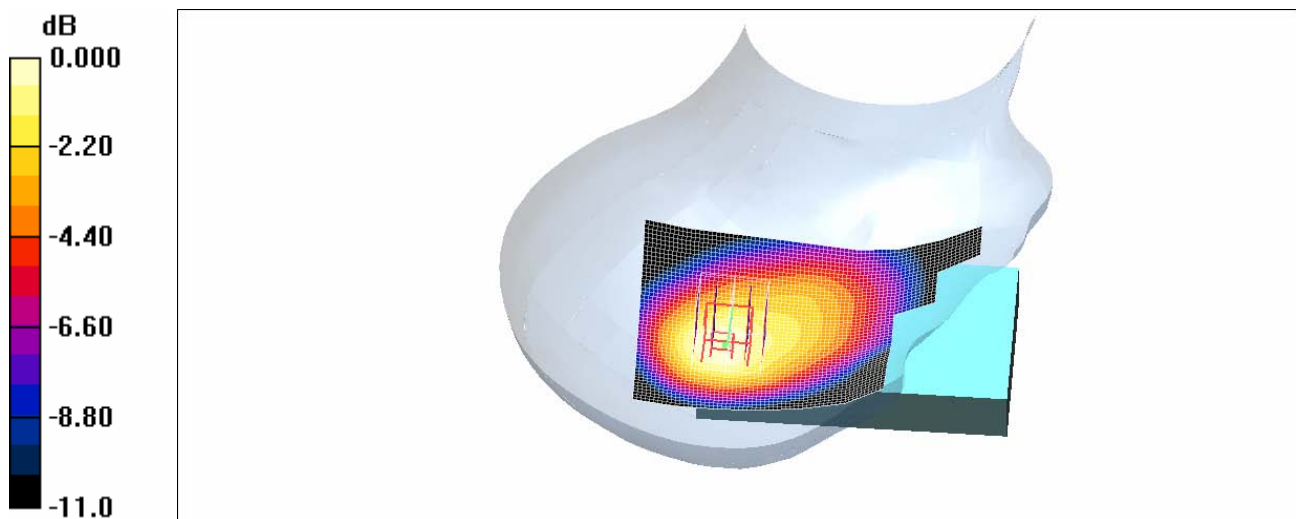**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.08 V/m; Power Drift = 0.090 dB
Peak SAR (extrapolated) = 0.114 W/kg
SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.051 mW/g
Maximum value of SAR (measured) = 0.082 mW/g

0 dB = 0.082mW/g

Test Laboratory: KTL

AT870 GSM850 Ch.190 RIGHT EAR TILT
*Test Date : 18th/Dec/2008

Measured Liquid Temperature(℃) :22.5 , Ambient Temperature(℃) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: HSL835 Medium parameters used: f = 836.6 MHz; σ = 0.91 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(6.12, 6.12, 6.12); Calibrated: 2008-07-21

- 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

$_3$**Area Scan (51x81x1):** Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.090 mW/g

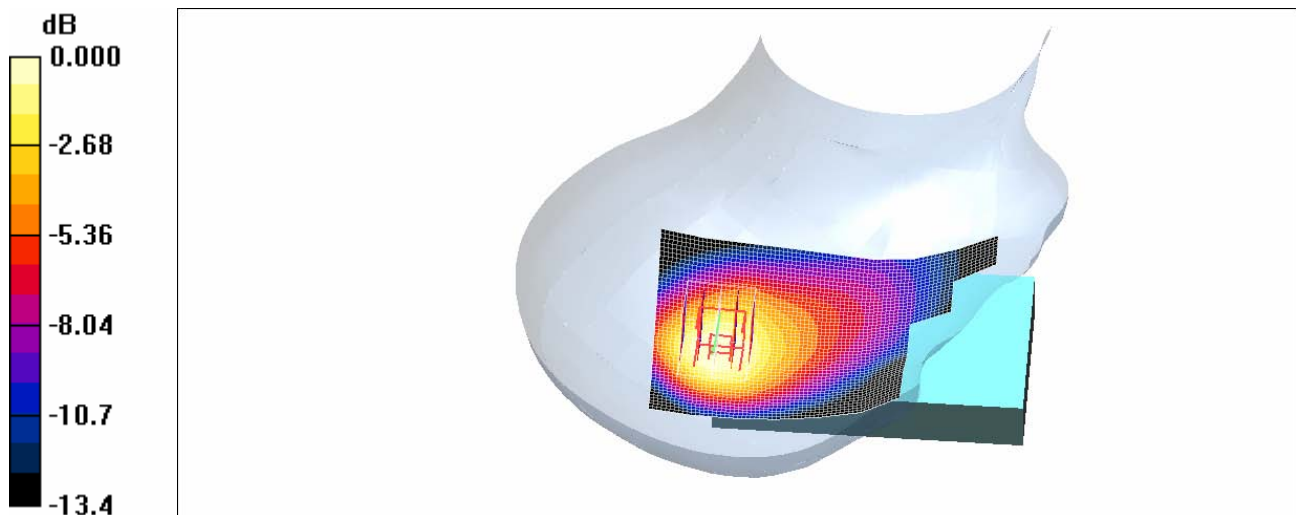**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.05 V/m; Power Drift = 0.061 dB
Peak SAR (extrapolated) = 0.114 W/kg
SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.051 mW/g
Maximum value of SAR (measured) = 0.083 mW/g

0 dB = 0.083mW/g

Test Laboratory: KTL

AT870 GSM850 Ch.128 RIGHT EAR TILT

*Test Date : 18th/Dec/2008

Measured Liquid Temperature(℃) :22.5 , Ambient Temperature(℃) : 22.0

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: HSL835 Medium parameters used: f = 824.2 MHz; σ = 0.9 mho/m; ε_r = 40.8; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(6.12, 6.12, 6.12); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.121 mW/g

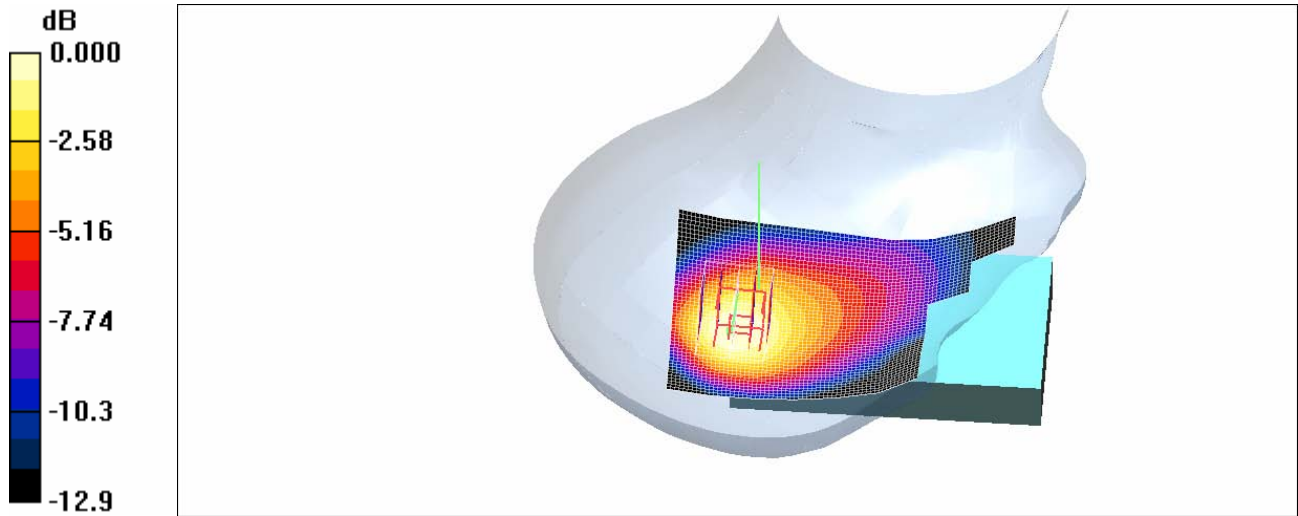**Z Scan (1x1x16):** Measurement grid: dx=20mm, dy=20mm, dz=20mm
Maximum value of SAR (interpolated) = 0.043 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
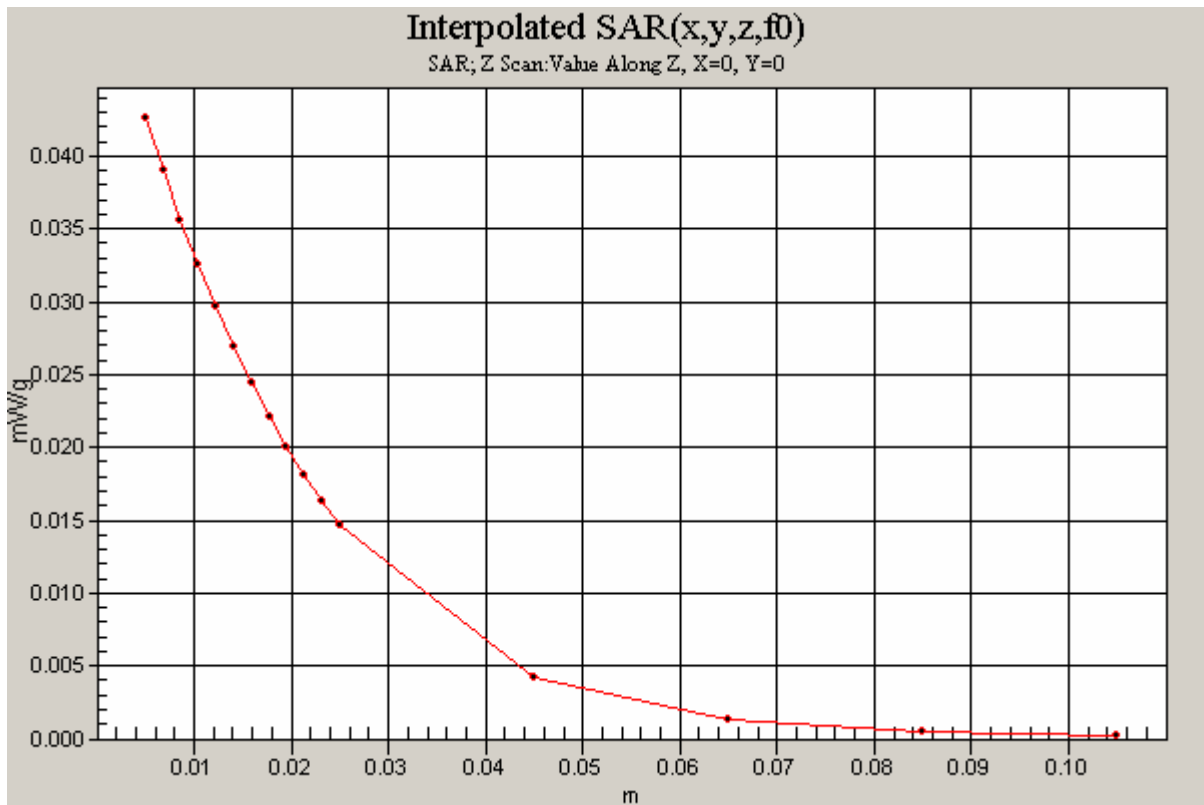Reference Value = 8.43 V/m; Power Drift = 0.026 dB
Peak SAR (extrapolated) = 0.152 W/kg
SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.068 mW/g
Maximum value of SAR (measured) = 0.111 mW/g

0 dB = 0.111mW/g

Test Laboratory: KTL

AT870 GSM850 Ch.251 RIGHT EAR TILT

*Test Date : 18th/Dec/2008

Measured Liquid Temperature(℃) :22.5 , Ambient Temperature(℃) : 22.0

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL835 Medium parameters used: f = 848.8 MHz; σ = 0.93 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(6.12, 6.12, 6.12); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.077 mW/g

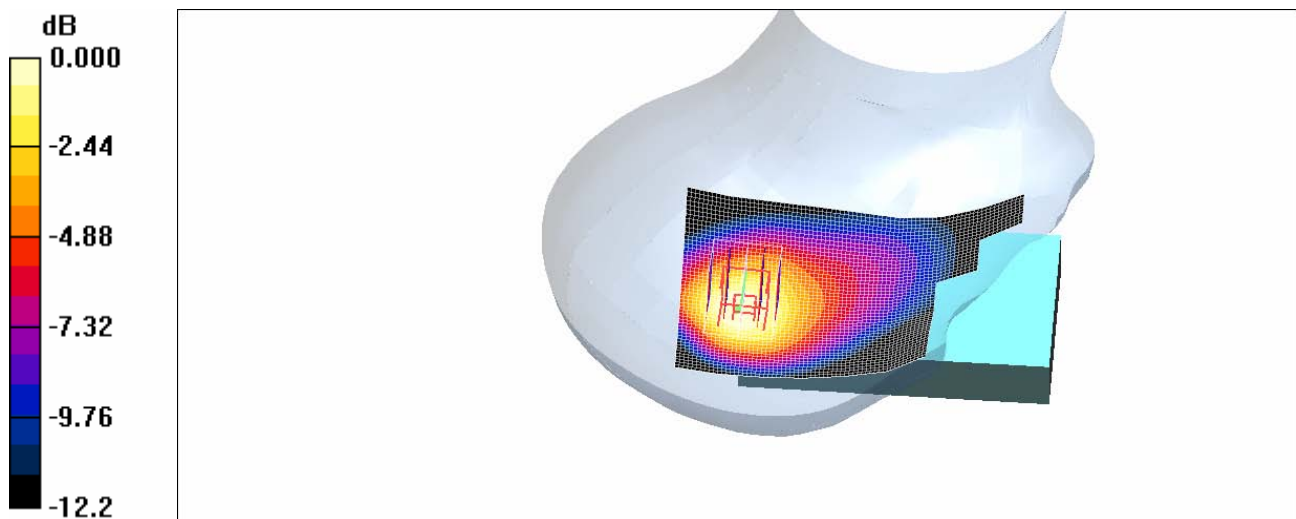**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.20 V/m; Power Drift = 0.011 dB
Peak SAR (extrapolated) = 0.097 W/kg
SAR(1 g) = 0.065 mW/g; SAR(10 g) = 0.042 mW/g
Maximum value of SAR (measured) = 0.070 mW/g

0 dB = 0.070mW/g

Test Laboratory: KTL

AT870 GSM850 Ch.190 Body Front facing phantom : distance 1.5 cm

*Test Date : 18th/Dec/2008

Measured Liquid Temperature(℃) :22.2 , Ambient Temperature(℃) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: HSL835 Medium parameters used: f = 836.6 MHz; σ = 0.97 mho/m; ε_r = 54.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(6.21, 6.21, 6.21); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
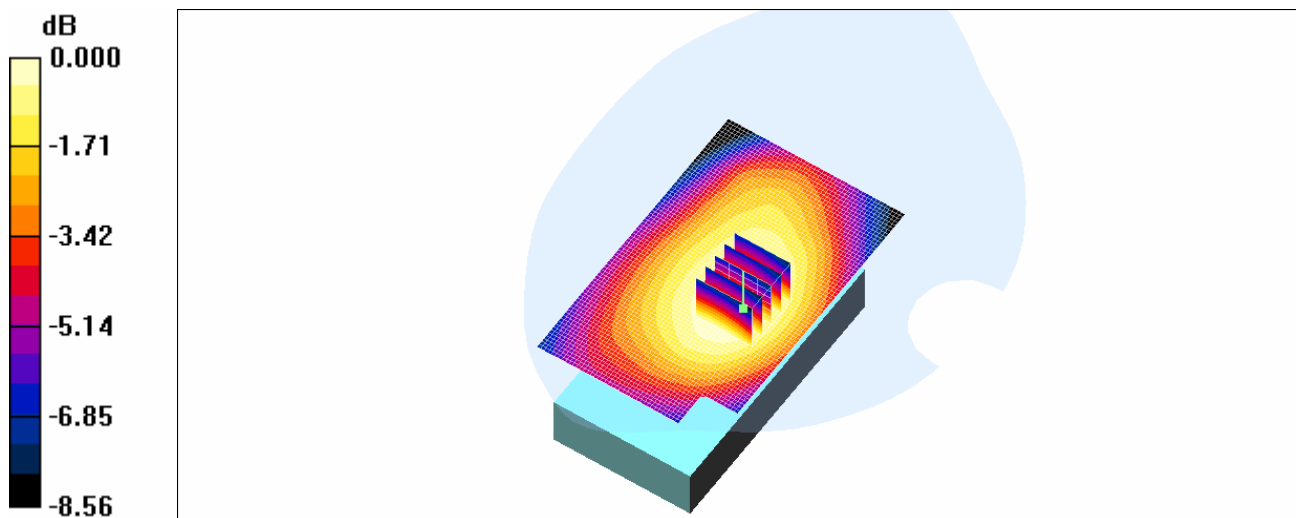Maximum value of SAR (interpolated) = 0.045 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.81 V/m; Power Drift = 0.049 dB
Peak SAR (extrapolated) = 0.054 W/kg
SAR(1 g) = 0.043 mW/g; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.045 mW/g

0 dB = 0.045mW/g

Test Laboratory: KTL

AT870 GSM850 Ch.190 Body Rear facing phantom : distance 1.5 cm
*Test Date : 18th/Dec/2008

Measured Liquid Temperature(℃) :22.2 , Ambient Temperature(℃) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium: HSL835 Medium parameters used: f = 836.6 MHz; σ = 0.97 mho/m; ε_r = 54.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(6.21, 6.21, 6.21); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.054 mW/g

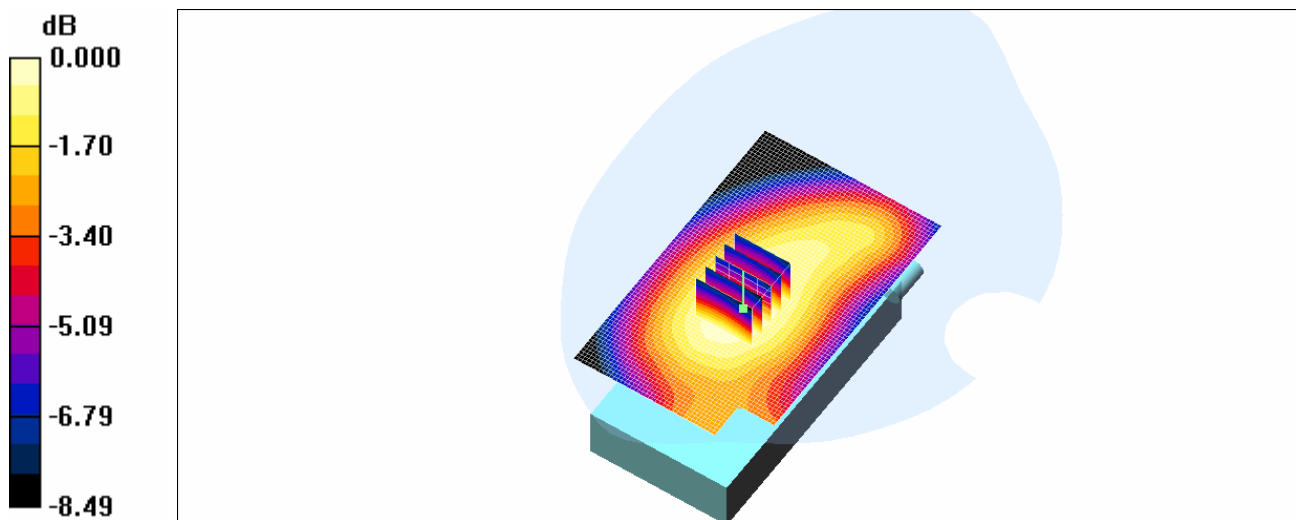## Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.45 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 0.064 W/kg
SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.038 mW/g
Maximum value of SAR (measured) = 0.053 mW/g

dB
0.000
-1.70
-3.40
-5.09
-6.79
-8.49

0 dB = 0.053mW/g

Test Laboratory: KTL

AT870 GPRS850 Ch.190 Body Rear facing phantom : distance 1.5 cm
*Test Date : 18th/Dec/2008

Measured Liquid Temperature(℃) :22.2 , Ambient Temperature(℃) : 22.0

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:4.15
Medium: HSL835 Medium parameters used: f = 836.6 MHz; σ = 0.97 mho/m; ε_r = 54.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(6.21, 6.21, 6.21); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.097 mW/g

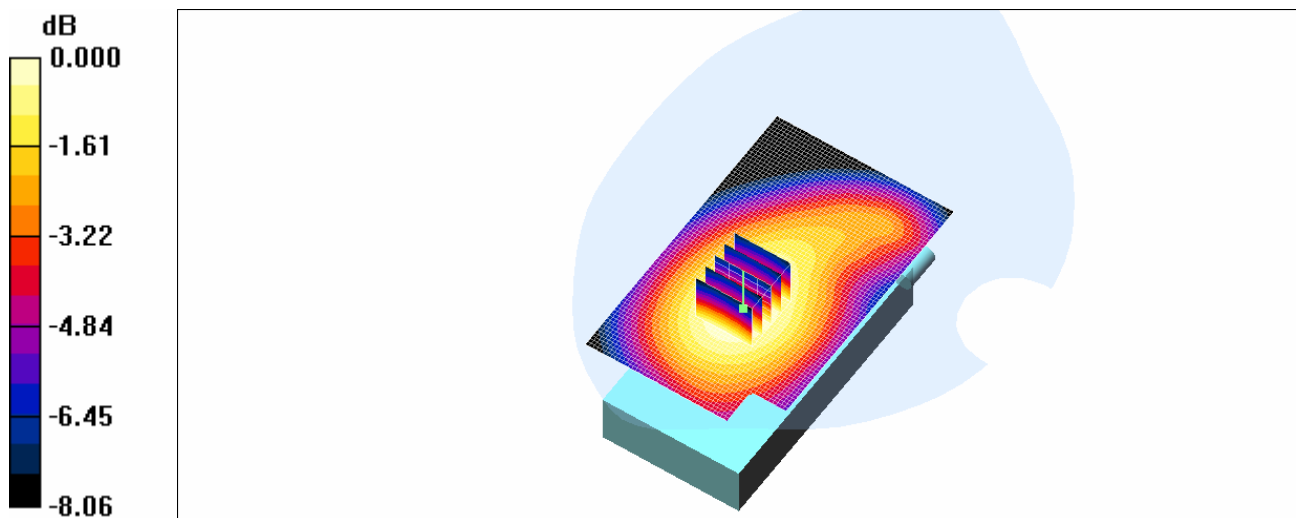**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.32 V/m; Power Drift = 0.307 dB
Peak SAR (extrapolated) = 0.114 W/kg
SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.068 mW/g
Maximum value of SAR (measured) = 0.095 mW/g

0 dB = 0.095mW/g

Test Laboratory: KTL

AT870 GPRS850 Ch.128 Body Rear facing phantom : distance 1.5 cm
*Test Date : 18th/Dec/2008

Measured Liquid Temperature(℃) :22.2 , Ambient Temperature(℃) : 22.0

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:4.15
Medium: HSL835 Medium parameters used: f = 824.2 MHz; σ = 0.96 mho/m; ε_r = 54.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(6.21, 6.21, 6.21); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.142 mW/g

Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm
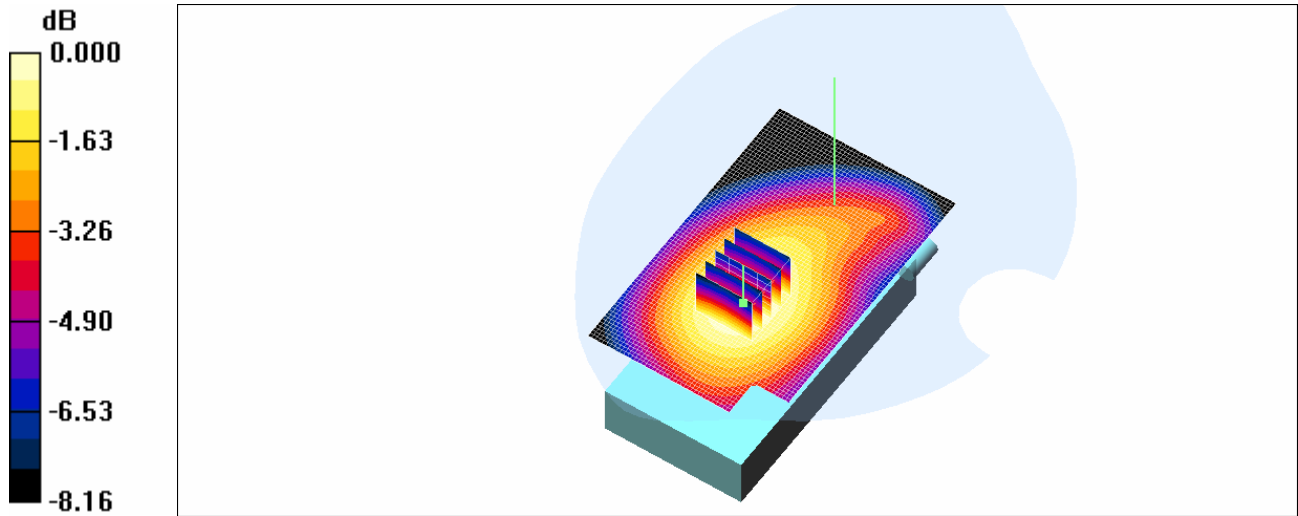Maximum value of SAR (interpolated) = 0.041 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
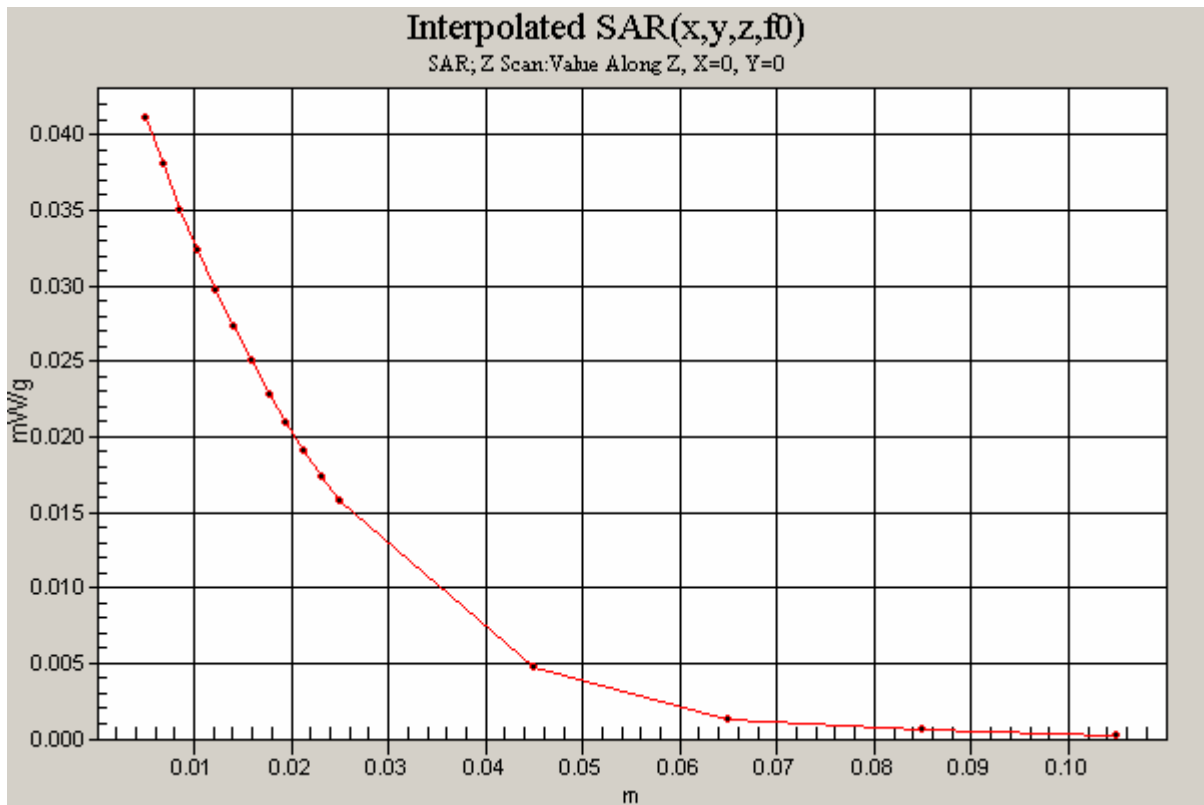Reference Value = 8.75 V/m; Power Drift = 0.050 dB
Peak SAR (extrapolated) = 0.169 W/kg
SAR(1 g) = 0.134 mW/g; SAR(10 g) = 0.101 mW/g
Maximum value of SAR (measured) = 0.142 mW/g

0 dB = 0.142mW/g

Test Laboratory: KTL

AT870 GPRS850 Ch.251 Body Rear facing phantom : distance 1.5 cm

*Test Date : 18th/Dec/2008

Measured Liquid Temperature(℃) :22.2 , Ambient Temperature(℃) : 22.0

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:4.15
Medium: HSL835 Medium parameters used: f = 848.8 MHz; σ = 0.98 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(6.21, 6.21, 6.21); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.078 mW/g

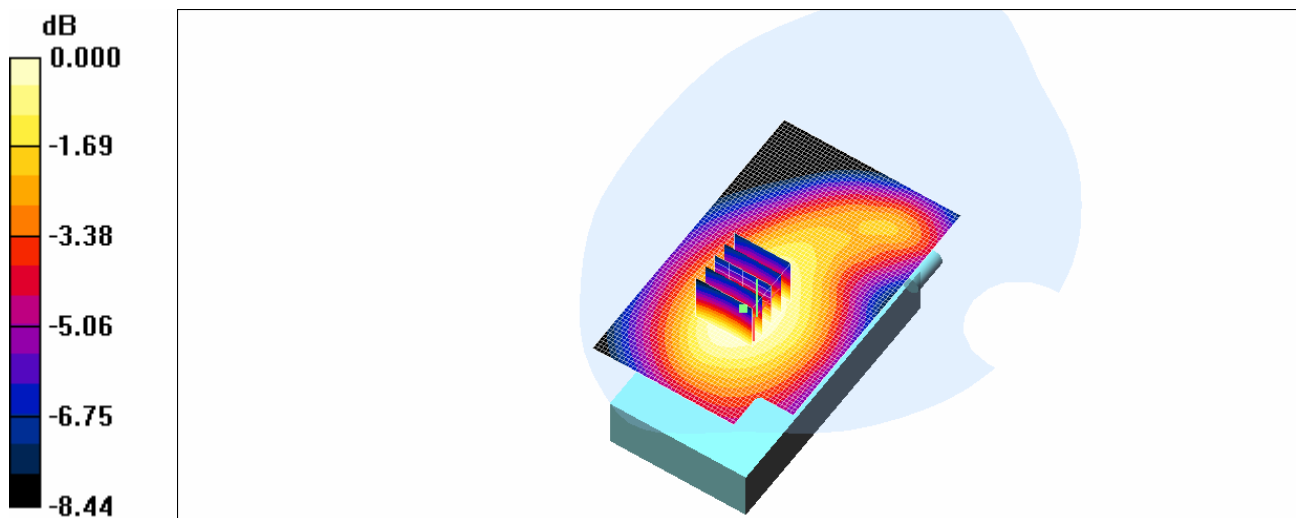**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.57 V/m; Power Drift = 0.101 dB
Peak SAR (extrapolated) = 0.087 W/kg
SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.052 mW/g
Maximum value of SAR (measured) = 0.073 mW/g

0 dB = 0.073mW/g

Test Laboratory: KTL

1900MHz Validation – D1900V2; SN:5d038

*Test Date : 19th/Dec/2008

Measured Liquid Temperature(℃) : 21.5 , Ambient Temperature(℃) : 21.0

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1900 MHz; σ = 1.42 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(5.03, 5.03, 5.03); Calibrated: 2008-07-21

- 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 (61x71x1): Measurement grid: dx=15mm, dy=15mm
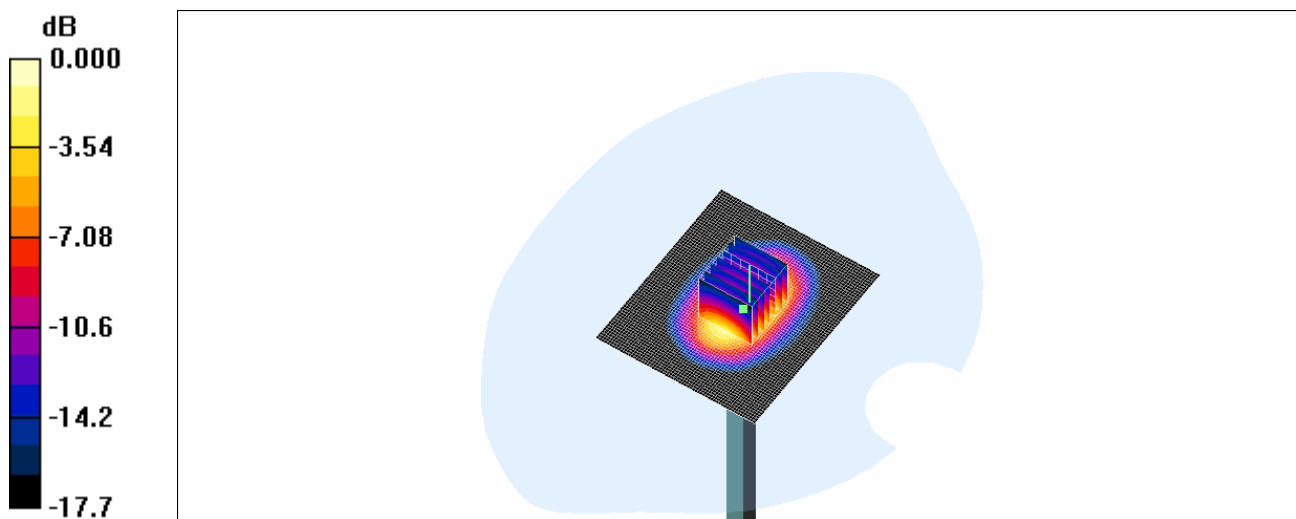Maximum value of SAR (interpolated) = 12.7 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 90.7 V/m; Power Drift = 0.002 dB
Peak SAR (extrapolated) = 19.1 W/kg
SAR(1 g) = 10.3 mW/g; SAR(10 g) = 5.35 mW/g
Maximum value of SAR (measured) = 11.5 mW/g

0 dB = 11.5mW/g

Test Laboratory: KTL

AT870 GSM1900 Ch.661 LEFT CHEEK TOUCH

*Test Date : 19th/Dec/2008

Measured Liquid Temperature(℃) :21.5 , Ambient Temperature(℃) : 21.0

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.4 mho/m; $ε_r$ = 39.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(5.03, 5.03, 5.03); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
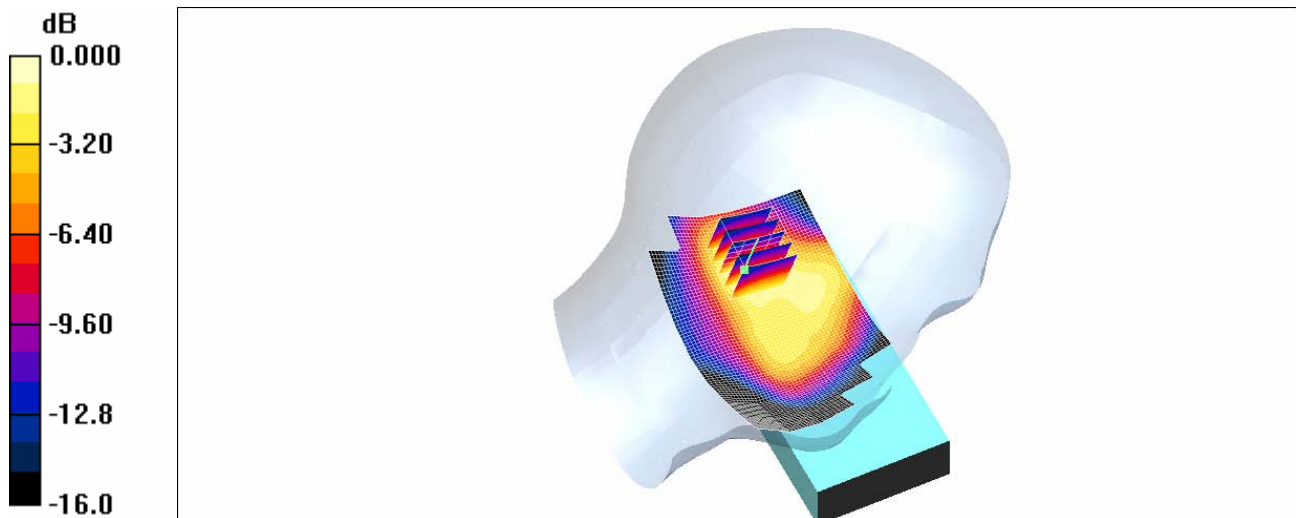Maximum value of SAR (interpolated) = 0.244 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.0 V/m; Power Drift = -0.052 dB
Peak SAR (extrapolated) = 0.385 W/kg
SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.141 mW/g
Maximum value of SAR (measured) = 0.253 mW/g

0 dB = 0.253mW/g

Test Laboratory: KTL

AT870 GSM1900 Ch.661 LEFT EAR TILT

*Test Date : 19th/Dec/2008

Measured Liquid Temperature(℃) :21.5 , Ambient Temperature(℃) : 21.0

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.4 mho/m; ε_r = 39.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(5.03, 5.03, 5.03); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
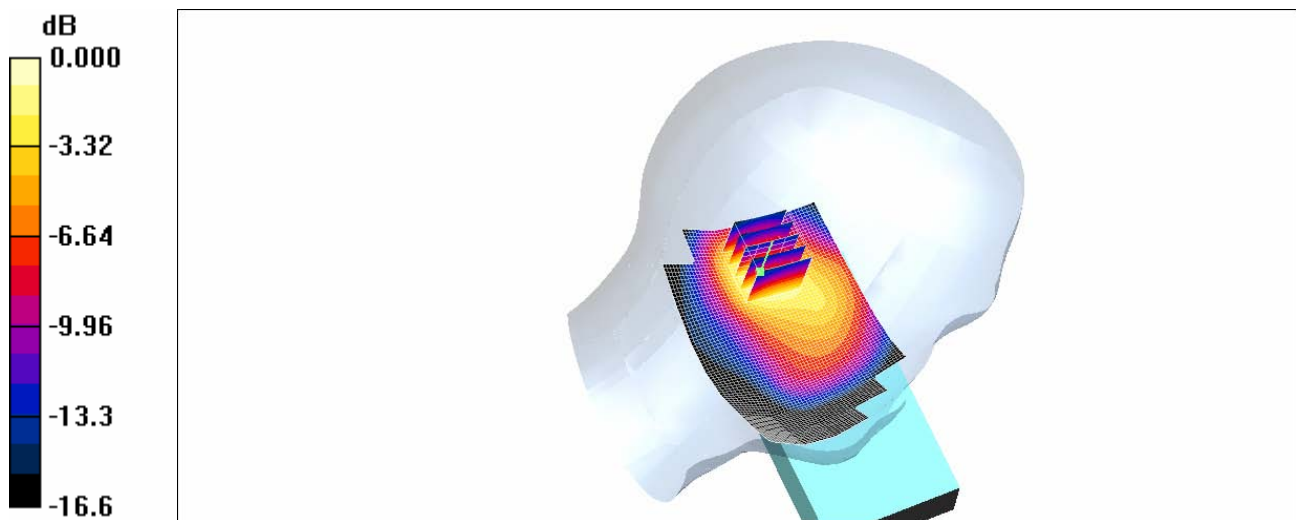Maximum value of SAR (interpolated) = 0.301 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.8 V/m; Power Drift = -0.044 dB
Peak SAR (extrapolated) = 0.495 W/kg
SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.170 mW/g
Maximum value of SAR (measured) = 0.325 mW/g

0 dB = 0.325mW/g

Test Laboratory: KTL

AT870 GSM1900 Ch.661 RIGHT CHEEK TOUCH
*Test Date : 19th/Dec/2008

Measured Liquid Temperature(℃) :21.5 , Ambient Temperature(℃) : 21.0

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.4 mho/m; ε_r = 39.8; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(5.03, 5.03, 5.03); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
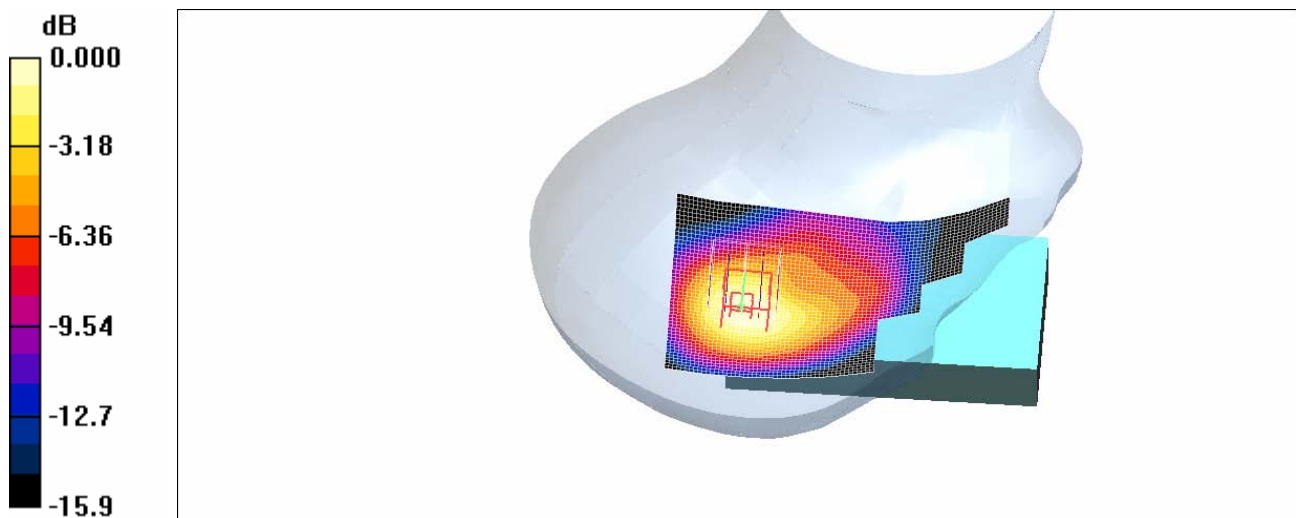Maximum value of SAR (interpolated) = 0.372 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.0 V/m; Power Drift = -0.123 dB
Peak SAR (extrapolated) = 0.589 W/kg
SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.207 mW/g
Maximum value of SAR (measured) = 0.384 mW/g

0 dB = 0.384mW/g

Test Laboratory: KTL

AT870 GSM1900 Ch.661 RIGHT EAR TILT
*Test Date : 19th/Dec/2008

Measured Liquid Temperature(℃) :21.5 , Ambient Temperature(℃) : 21.0

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.4 mho/m; ε_r = 39.8; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(5.03, 5.03, 5.03); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.472 mW/g

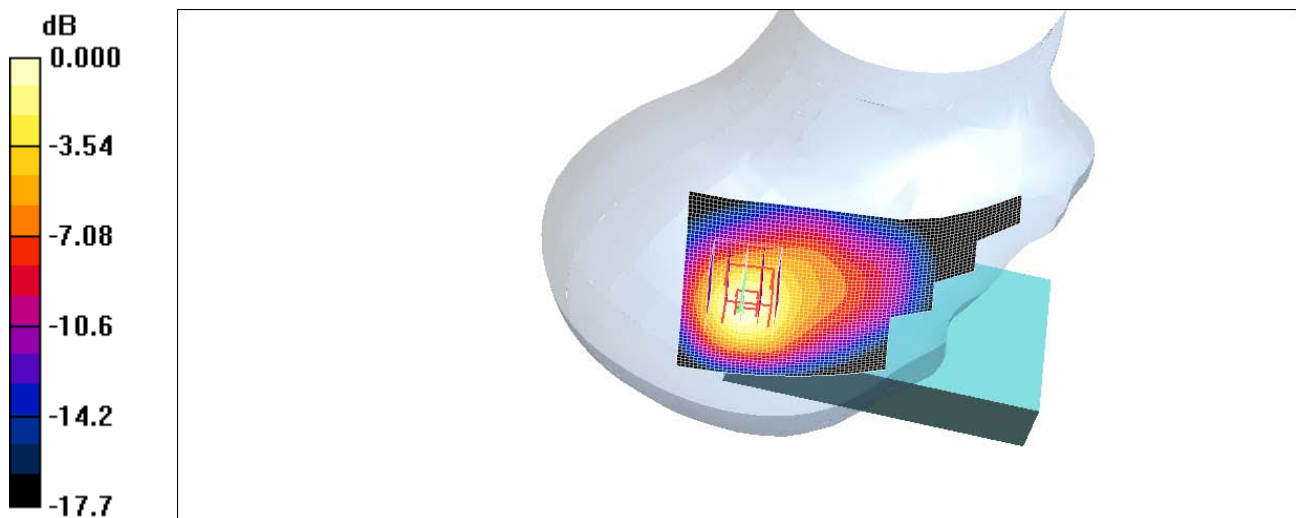**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.6 V/m; Power Drift = 0.005 dB
Peak SAR (extrapolated) = 0.734 W/kg
SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.247 mW/g
Maximum value of SAR (measured) = 0.472 mW/g

0 dB = 0.472mW/g

Test Laboratory: KTL

AT870 GSM1900 Ch.512 RIGHT EAR TILT

*Test Date : 19th/Dec/2008

Measured Liquid Temperature(℃) :21.5 , Ambient Temperature(℃) : 21.0

Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.39 mho/m; ε$_r$ = 39.9; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(5.03, 5.03, 5.03); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.605 mW/g

Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm
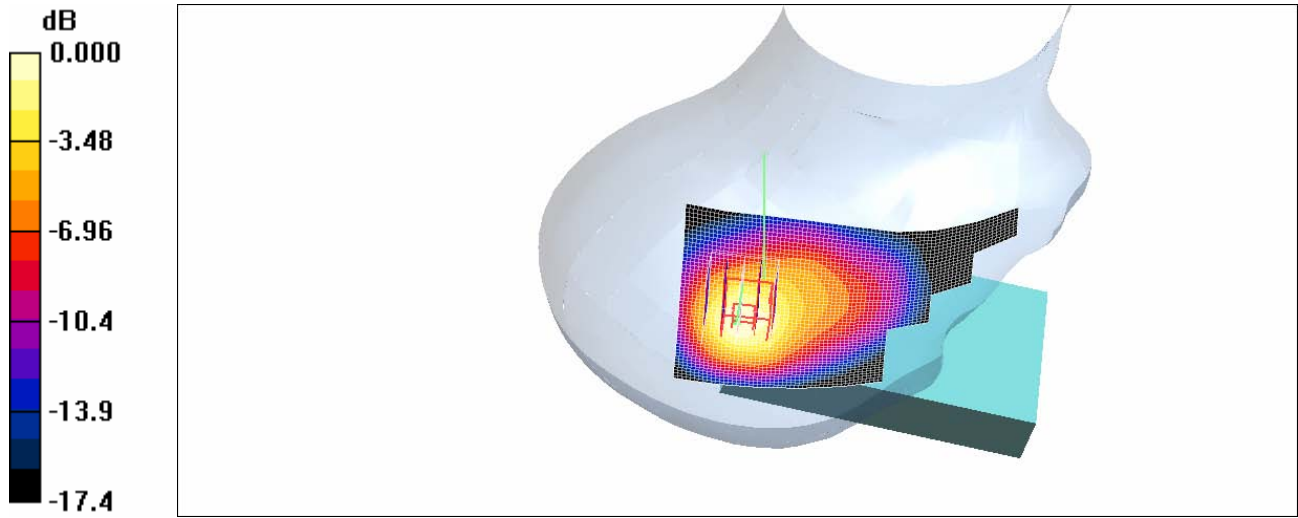Maximum value of SAR (interpolated) = 0.130 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
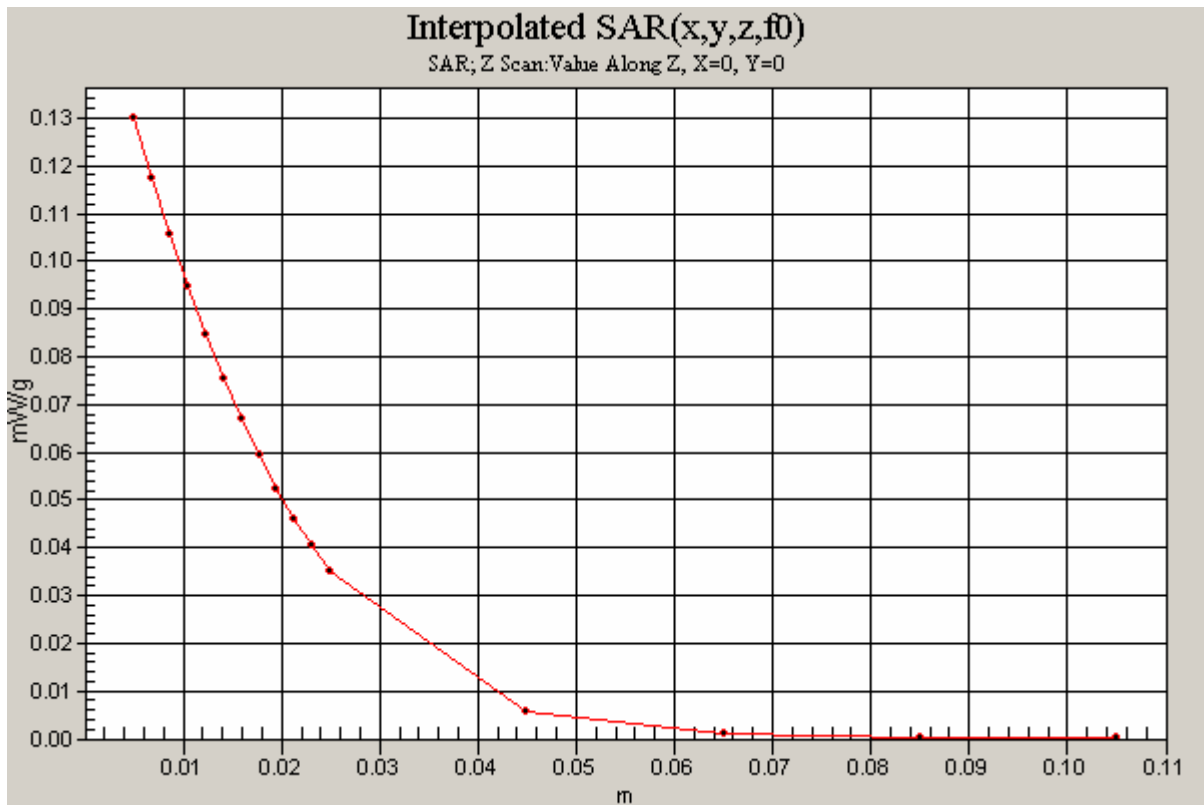Reference Value = 13.3 V/m; Power Drift = 0.029 dB
Peak SAR (extrapolated) = 0.945 W/kg
SAR(1 g) = 0.565 mW/g; SAR(10 g) = 0.322 mW/g
Maximum value of SAR (measured) = 0.608 mW/g

0 dB = 0.608mW/g

Test Laboratory: KTL

AT870 GSM1900 Ch.810 RIGHT EAR TILT

*Test Date : 19th/Dec/2008

Measured Liquid Temperature(℃) :21.5 , Ambient Temperature(℃) : 21.0

Communication System: DCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.43 mho/m; ε_r = 39.7; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(5.03, 5.03, 5.03); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
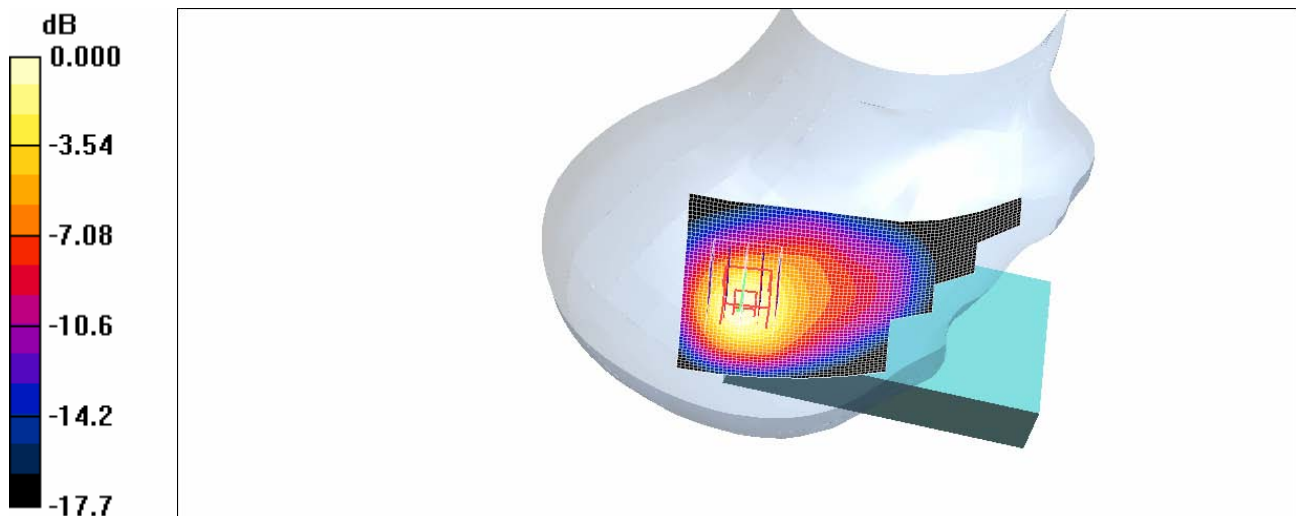Maximum value of SAR (interpolated) = 0.416 mW/g
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.7 V/m; Power Drift = -0.001 dB
Peak SAR (extrapolated) = 0.635 W/kg
SAR(1 g) = 0.376 mW/g; SAR(10 g) = 0.212 mW/g
Maximum value of SAR (measured) = 0.409 mW/g

0 dB = 0.409mW/g

Test Laboratory: KTL

AT870 GSM1900 Ch.661 Body Front facing phantom : distance 1.5 cm
*Test Date : 19th/Dec/2008

Measured Liquid Temperature(℃) :22.2 , Ambient Temperature(℃) : 22.0

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: MSL1900 Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(4.58, 4.58, 4.58); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
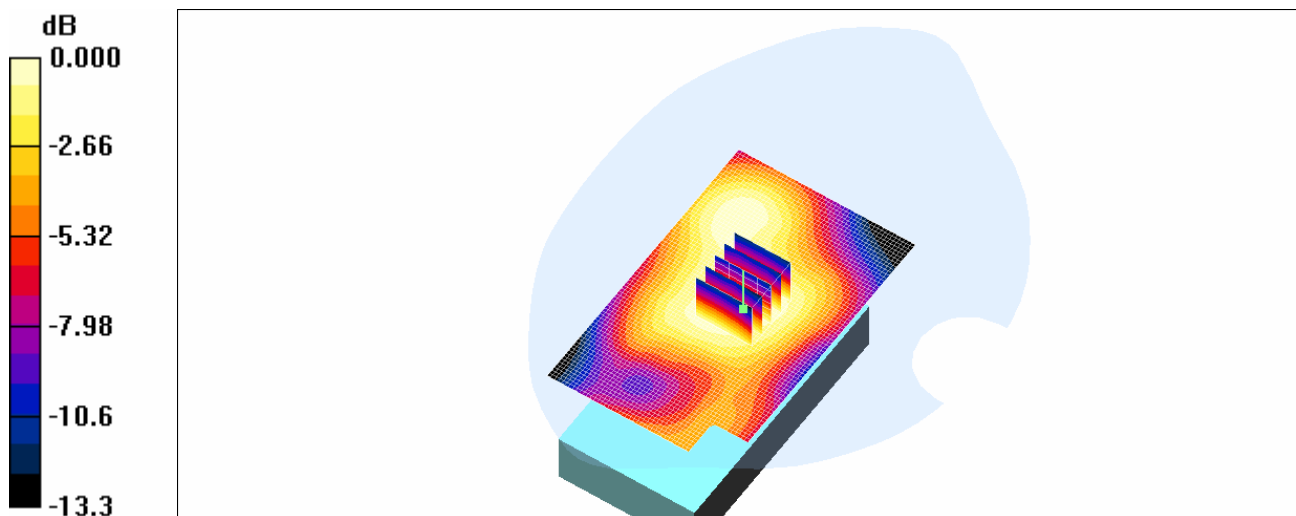Maximum value of SAR (interpolated) = 0.106 mW/g
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.19 V/m; Power Drift = 0.026 dB
Peak SAR (extrapolated) = 0.146 W/kg
SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.066 mW/g
Maximum value of SAR (measured) = 0.105 mW/g

0 dB = 0.105mW/g

Test Laboratory: KTL

AT870 GSM1900 Ch.661 Body Rear facing phantom : distance 1.5 cm

*Test Date : 19th/Dec/2008

Measured Liquid Temperature(℃) :22.2 , Ambient Temperature(℃) : 22.0

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: MSL1900 Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(4.58, 4.58, 4.58); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
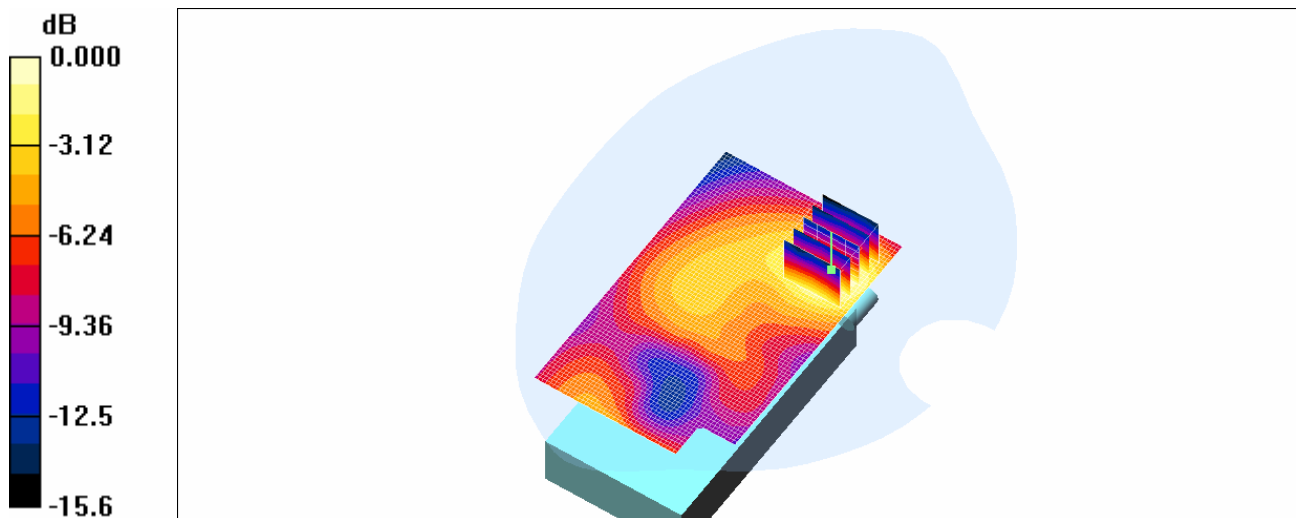Maximum value of SAR (interpolated) = 0.110 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.19 V/m; Power Drift = 0.021 dB
Peak SAR (extrapolated) = 0.158 W/kg
SAR(1 g) = 0.100 mW/g; SAR(10 g) = 0.060 mW/g
Maximum value of SAR (measured) = 0.108 mW/g

0 dB = 0.108mW/g

Test Laboratory: KTL

AT870 GPRS1900 Ch.661 Body Rear facing phantom : distance 1.5 cm

*Test Date : 19th/Dec/2008

Measured Liquid Temperature(℃) :22.2 , Ambient Temperature(℃) : 22.0

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.15
Medium: MSL1900 Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(4.58, 4.58, 4.58); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
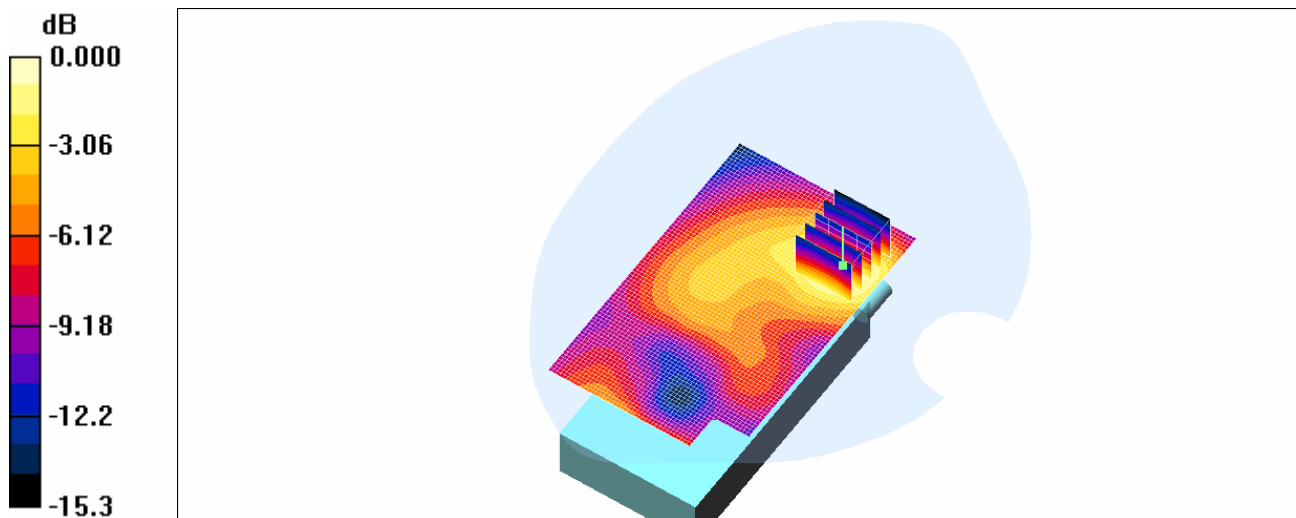Maximum value of SAR (interpolated) = 0.210 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.00 V/m; Power Drift = -0.303 dB
Peak SAR (extrapolated) = 0.304 W/kg
SAR(1 g) = 0.189 mW/g; SAR(10 g) = 0.113 mW/g
Maximum value of SAR (measured) = 0.206 mW/g

0 dB = 0.206mW/g

Test Laboratory: KTL

AT870 GPRS1900 Ch.512 Body Rear facing phantom : distance 1.5 cm

Test Date : 19th/Dec/2008

Measured Liquid Temperature(℃) :22.2 , Ambient Temperature(℃) : 22.0

Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium: MSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.49 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(4.58, 4.58, 4.58); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.232 mW/g

Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm
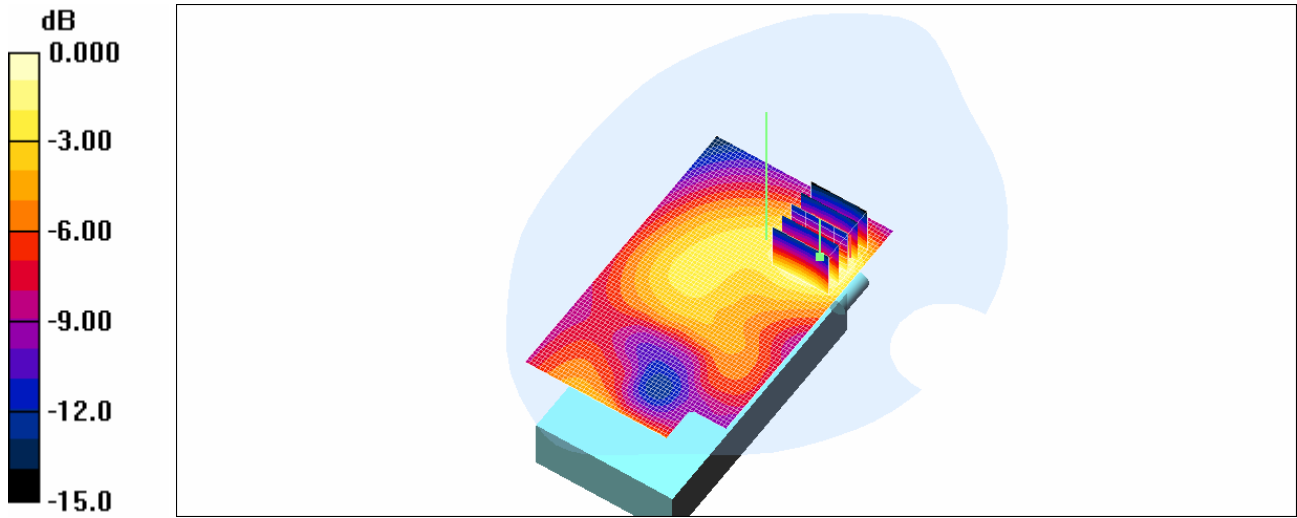Maximum value of SAR (interpolated) = 0.062 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
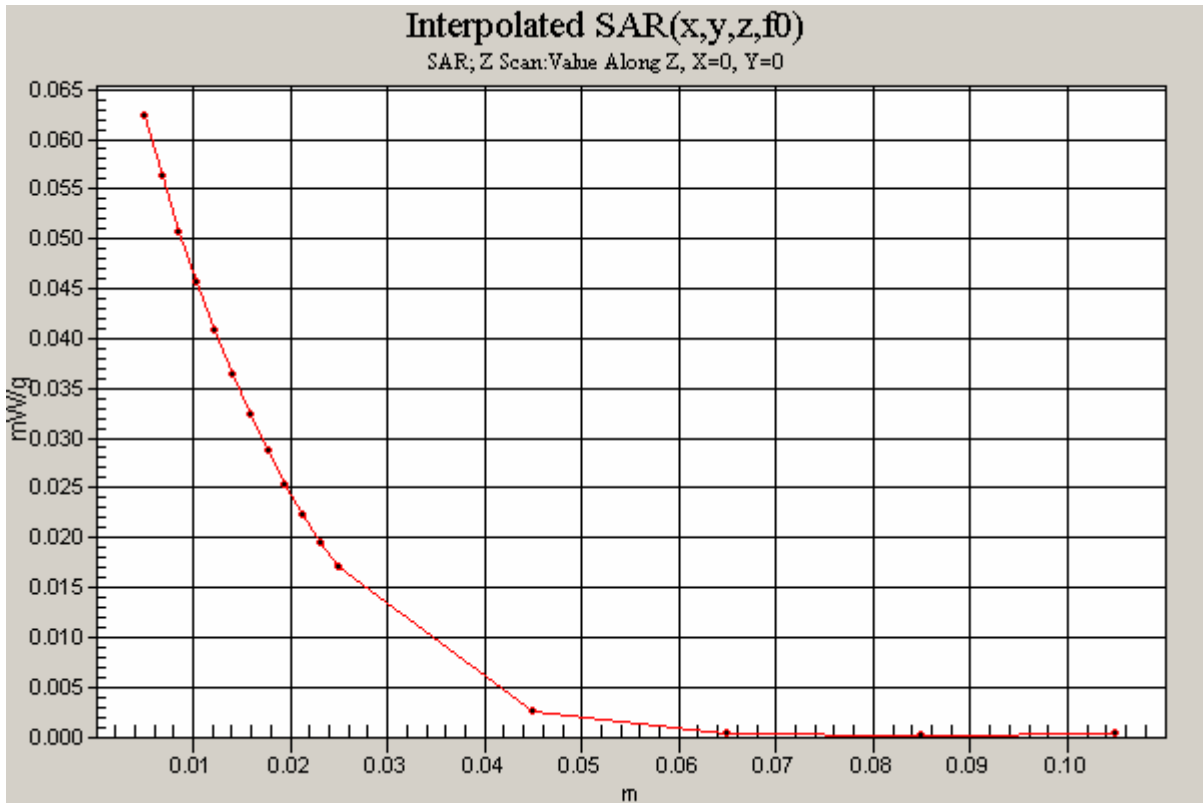Reference Value = 9.88 V/m; Power Drift = -0.003 dB
Peak SAR (extrapolated) = 0.338 W/kg
SAR(1 g) = 0.215 mW/g; SAR(10 g) = 0.131 mW/g
Maximum value of SAR (measured) = 0.231 mW/g

0 dB = 0.231mW/g

Test Laboratory: KTL

AT870 GPRS1900 Ch.810 Body Rear facing phantom : distance 1.5 cm

*Test Date : 19th/Dec/2008

Measured Liquid Temperature(℃) :22.2 , Ambient Temperature(℃) : 22.0

Communication System: DCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15
Medium: MSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.56 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(4.58, 4.58, 4.58); Calibrated: 2008-07-21

- 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 (51x81x1): Measurement grid: dx=20mm, dy=20mm
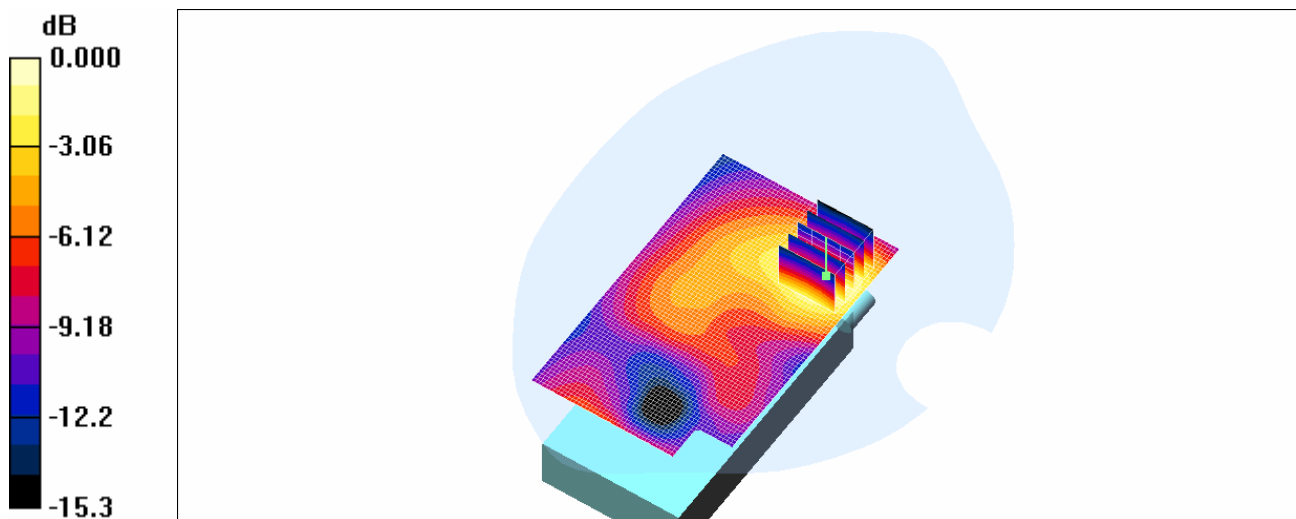Maximum value of SAR (interpolated) = 0.175 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.11 V/m; Power Drift = -0.032 dB
Peak SAR (extrapolated) = 0.255 W/kg
SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.096 mW/g
Maximum value of SAR (measured) = 0.174 mW/g

dB
0.000
-3.06
-6.12
-9.18
-12.2
-15.3

0 dB = 0.174mW/g

Test Laboratory: KTL

2450MHz Validation – D2450V2; SN:746

*Test Date : 22nd/Dec/2008

Measured Liquid Temperature(℃) : 21.7 , Ambient Temperature(℃) : 21.0

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: HSL2450 Medium parameters used: f = 2450 MHz; σ = 1.82 mho/m; ε_r = 39.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(4.33, 4.33, 4.33); Calibrated: 2008-07-21

- 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 (61x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 15.8 mW/g

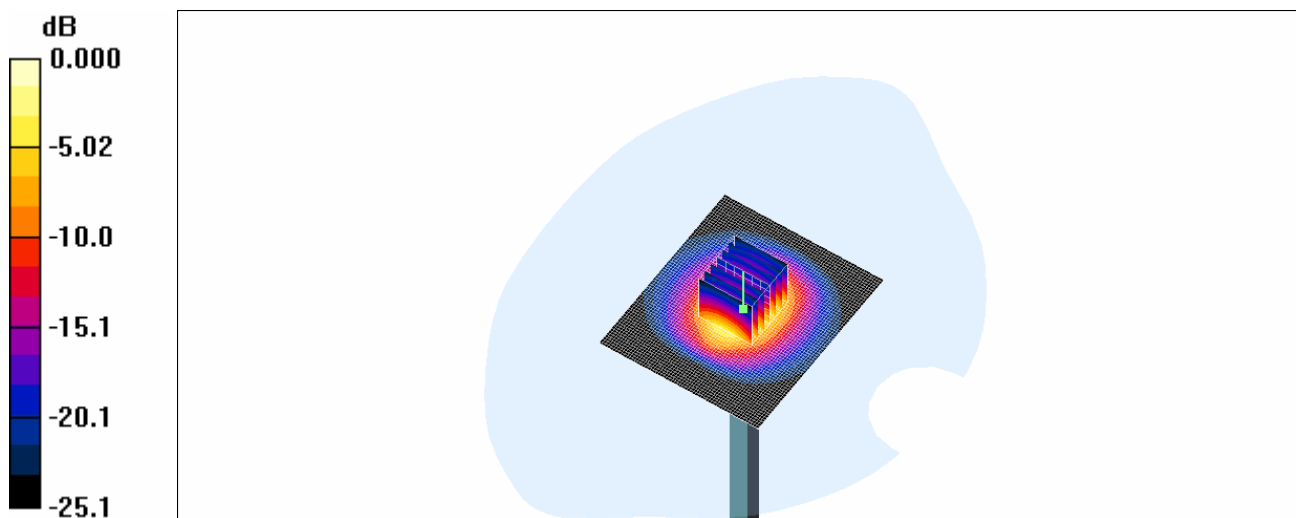**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 90.0 V/m; Power Drift = 0.015 dB
Peak SAR (extrapolated) = 30.1 W/kg
SAR(1 g) = 12.7 mW/g; SAR(10 g) = 5.57 mW/g
Maximum value of SAR (measured) = 14.2 mW/g

0 dB = 14.2mW/g

Test Laboratory: KTL

AT870 802.11b Ch.6 Body Front facing phantom: distance 1.5 cm

*Test Date : 22nd/Dec/2008

Measured Liquid Temperature(℃) :21.7 , Ambient Temperature(℃) : 21.0

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: 2450D Medium parameters used: f = 2437 MHz; σ = 1.95 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(3.82, 3.82, 3.82); Calibrated: 2008-07-21

- 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 (51x91x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.060 mW/g

Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm
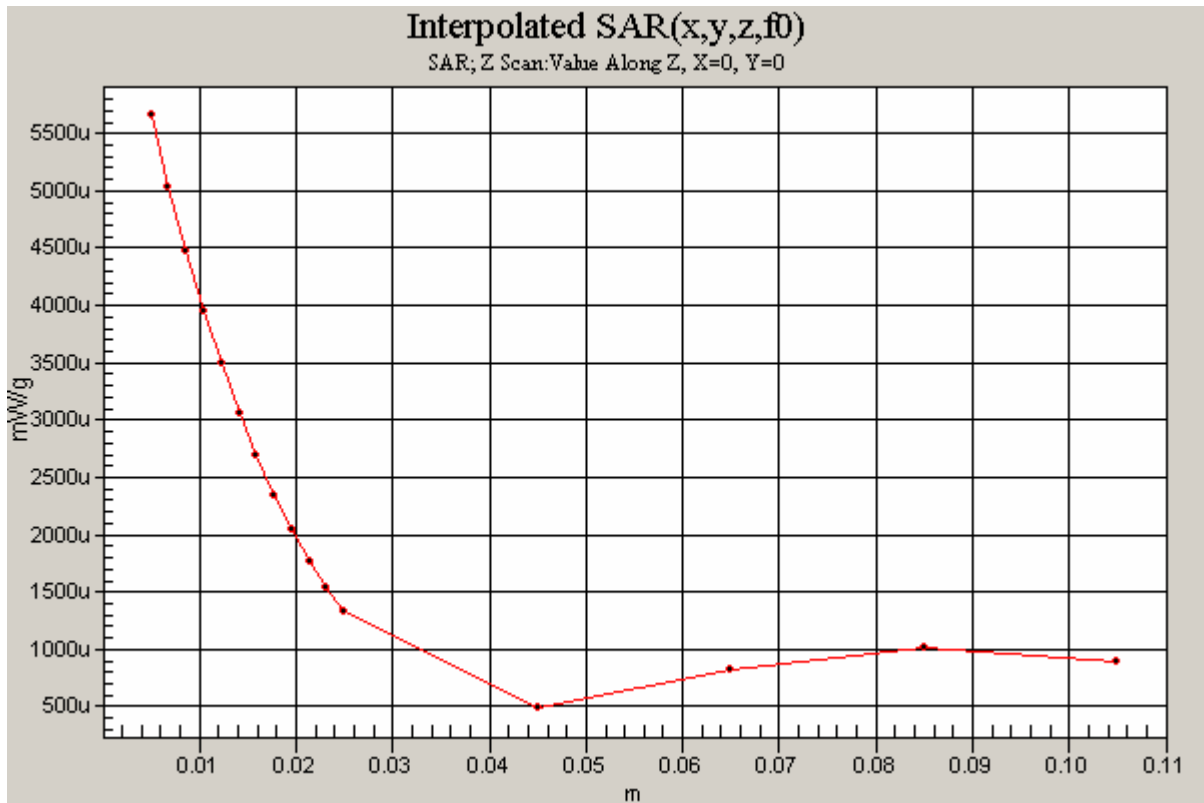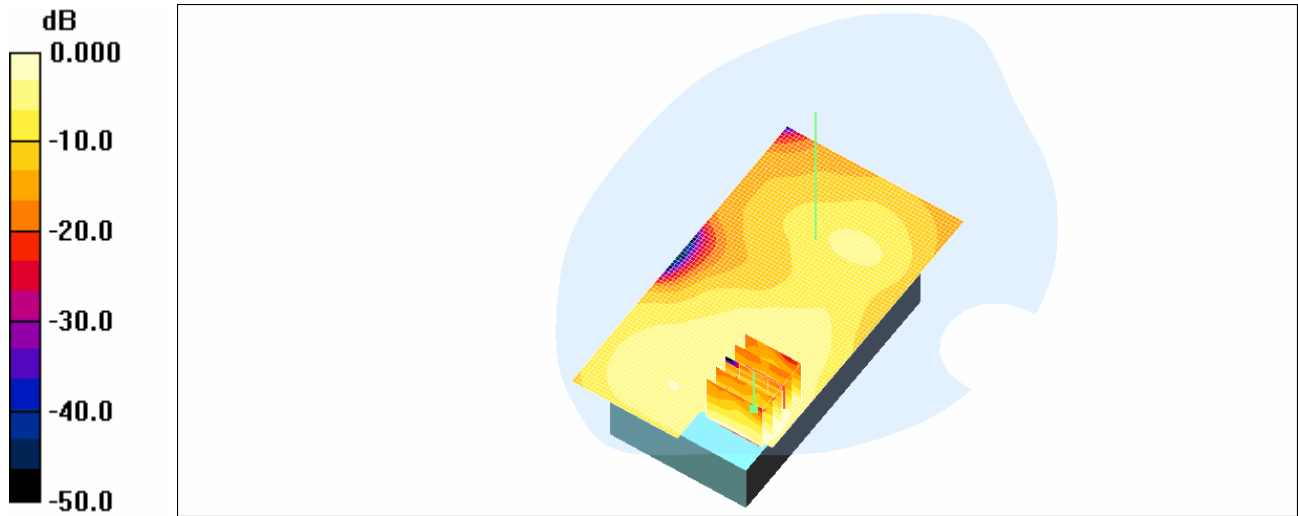Maximum value of SAR (interpolated) = 0.001 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.62 V/m; Power Drift = -0.167 dB
Peak SAR (extrapolated) = 0.125 W/kg
SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.031 mW/g
Maximum value of SAR (measured) = 0.064 mW/g

Test Laboratory: KTL

AT870 802.11b Ch.6 Body Rear facing phantom: distance 1.5 cm

*Test Date : 22nd/Dec/2008

Measured Liquid Temperature(℃) :21.7 , Ambient Temperature(℃) : 21.0

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: 2450D Medium parameters used: f = 2437 MHz; σ = 1.95 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(3.82, 3.82, 3.82); Calibrated: 2008-07-21

- 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 (51x91x1): Measurement grid: dx=20mm, dy=20mm
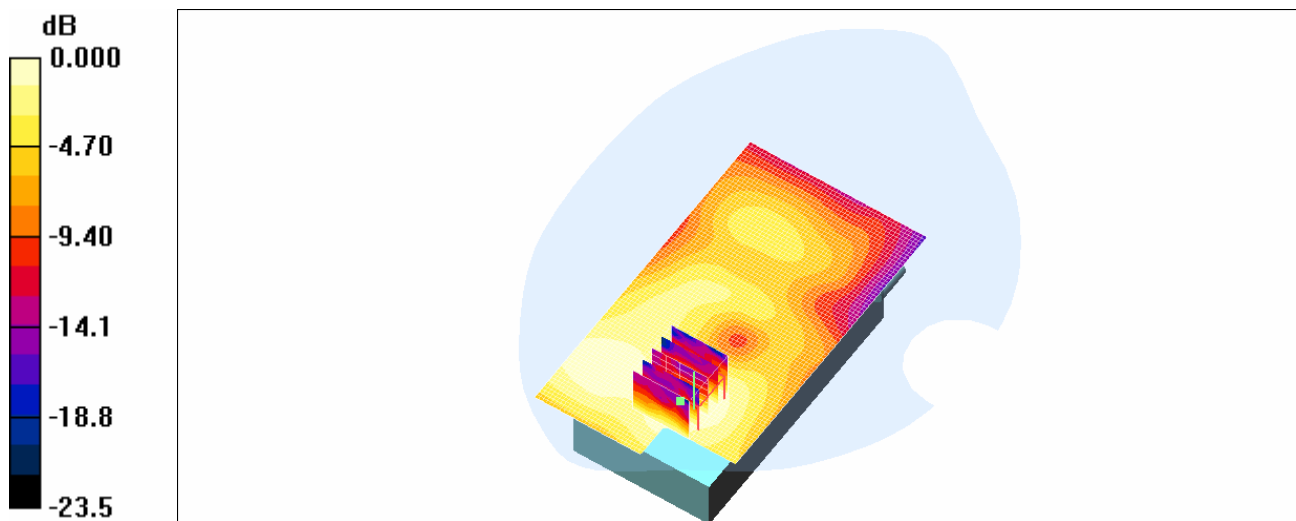Maximum value of SAR (interpolated) = 0.021 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.92 V/m; Power Drift = 0.013 dB
Peak SAR (extrapolated) = 0.038 W/kg
SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.011 mW/g

Maximum value of SAR (measured) = 0.020 mW/g

dB
0.000
-4.70
-9.40
-14.1
-18.8
-23.5

0 dB = 0.020mW/g

Test Laboratory: KTL

AT870 802.11b Ch.1 Body Front facing phantom: distance 1.5 cm

*Test Date : 22nd/Dec/2008

Measured Liquid Temperature(℃) :21.7 , Ambient Temperature(℃) : 21.0

Communication System: WLAN; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: 2450D Medium parameters used: f = 2412 MHz; σ = 1.92 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(3.82, 3.82, 3.82); Calibrated: 2008-07-21

- 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 (51x91x1): Measurement grid: dx=20mm, dy=20mm
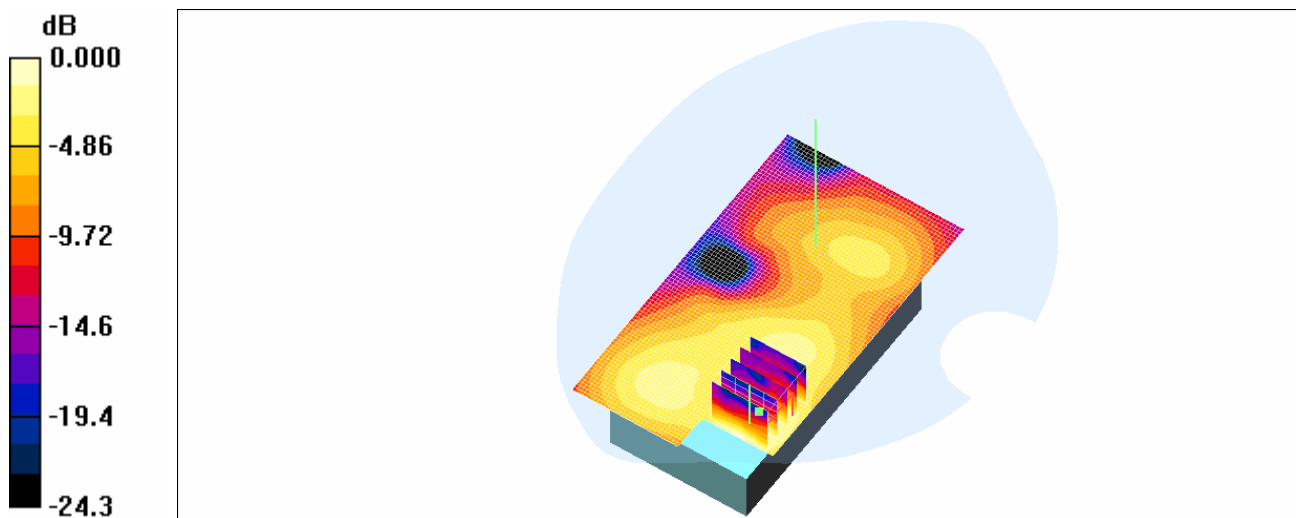Maximum value of SAR (interpolated) = 0.044 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.63 V/m; Power Drift = 0.127 dB
Peak SAR (extrapolated) = 0.095 W/kg
SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.023 mW/g
Maximum value of SAR (measured) = 0.048 mW/g

0 dB = 0.048mW/g

Test Laboratory: KTL

AT870 802.11b Ch.11 Body Front facing phantom: distance 1.5 cm
*Test Date : 22nd/Dec/2008

Measured Liquid Temperature(℃) :21.7 , Ambient Temperature(℃) : 21.0

Communication System: WLAN; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: 2450D Medium parameters used: $f = 2412$ MHz; $\sigma = 1.92$ mho/m; $\varepsilon_r = 52.8$; $\rho = 1000$ kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(3.82, 3.82, 3.82); Calibrated: 2008-07-21

- 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 (51x91x1): Measurement grid: dx=20mm, dy=20mm
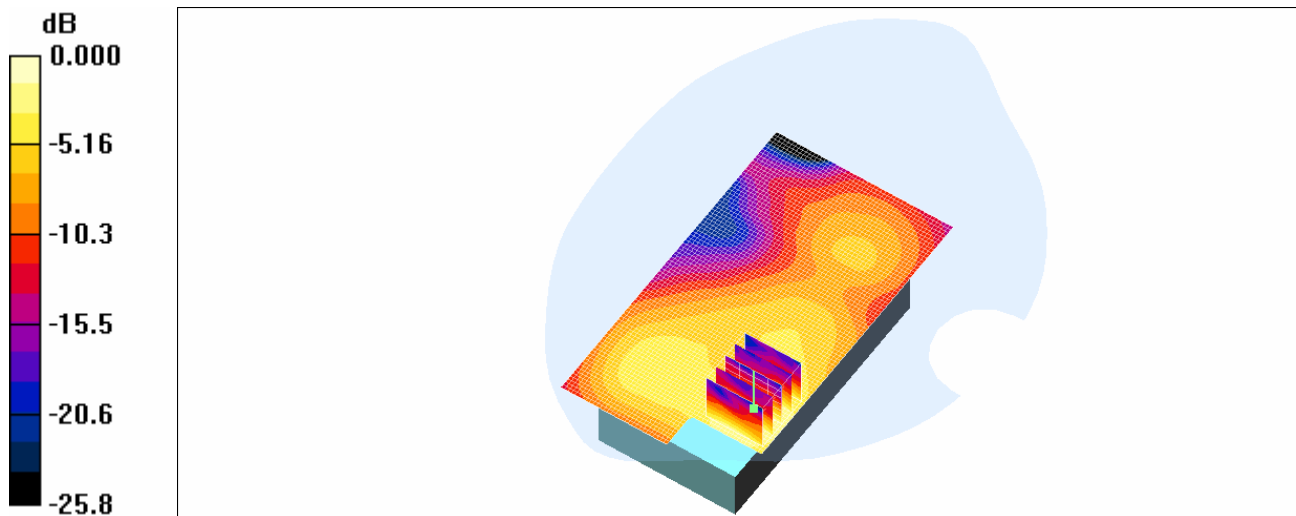Maximum value of SAR (interpolated) = 0.050 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.87 V/m; Power Drift = 0.037 dB
Peak SAR (extrapolated) = 0.096 W/kg
SAR(1 g) = 0.048 mW/g; SAR(10 g) = 0.025 mW/g
Maximum value of SAR (measured) = 0.053 mW/g

dB
0.000
-5.16
-10.3
-15.5
-20.6
-25.8

0 dB = 0.053mW/g

Test Laboratory: KTL

AT870 802.11g Ch.6 Body Front facing phantom: distance 1.5 cm
*Test Date : 22nd/Dec/2008

Measured Liquid Temperature(℃) :21.7 , Ambient Temperature(℃) : 21.0

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: 2450D Medium parameters used: f = 2437 MHz; σ = 1.95 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(3.82, 3.82, 3.82); Calibrated: 2008-07-21

- 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 (51x91x1): Measurement grid: dx=20mm, dy=20mm
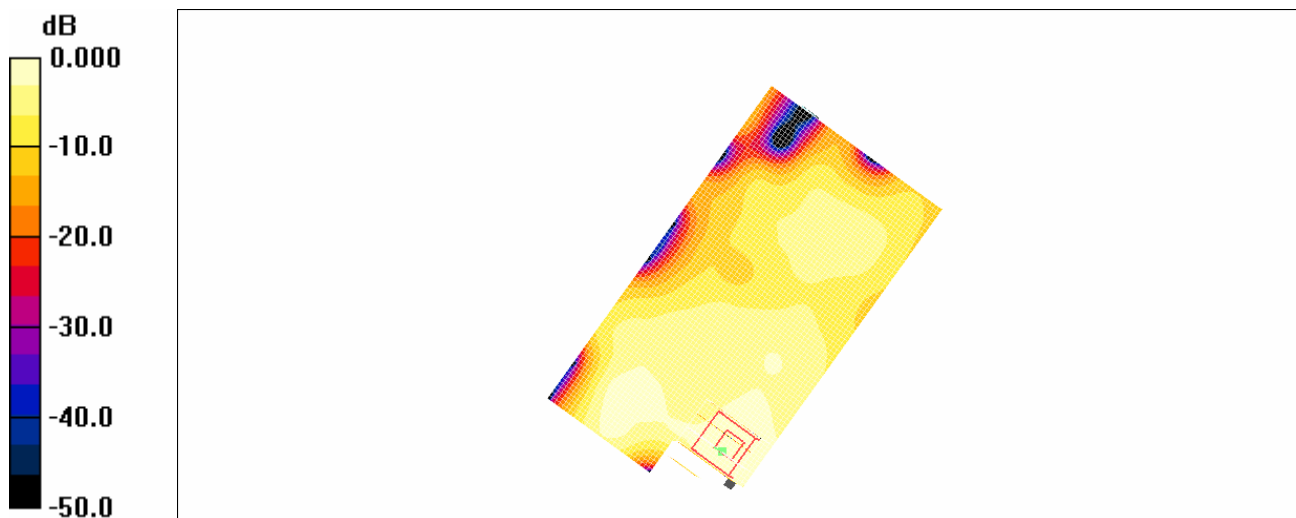Maximum value of SAR (interpolated) = 0.022 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.37 V/m; Power Drift = 0.109 dB
Peak SAR (extrapolated) = 0.031 W/kg
SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00781 mW/g

Maximum value of SAR (measured) = 0.016 mW/g

0 dB = 0.016mW/g

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Korea Testing Laboratory

Test Laboratory: KTL

AT870 802.11g Ch.6 Body Rear facing phantom: distance 1.5 cm

*Test Date : 22nd/Dec/2008

Measured Liquid Temperature(℃) :21.7 , Ambient Temperature(℃) : 21.0

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: 2450D Medium parameters used: f = 2437 MHz; σ = 1.95 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(3.82, 3.82, 3.82); Calibrated: 2008-07-21

- 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 (51x91x1): Measurement grid: dx=20mm, dy=20mm
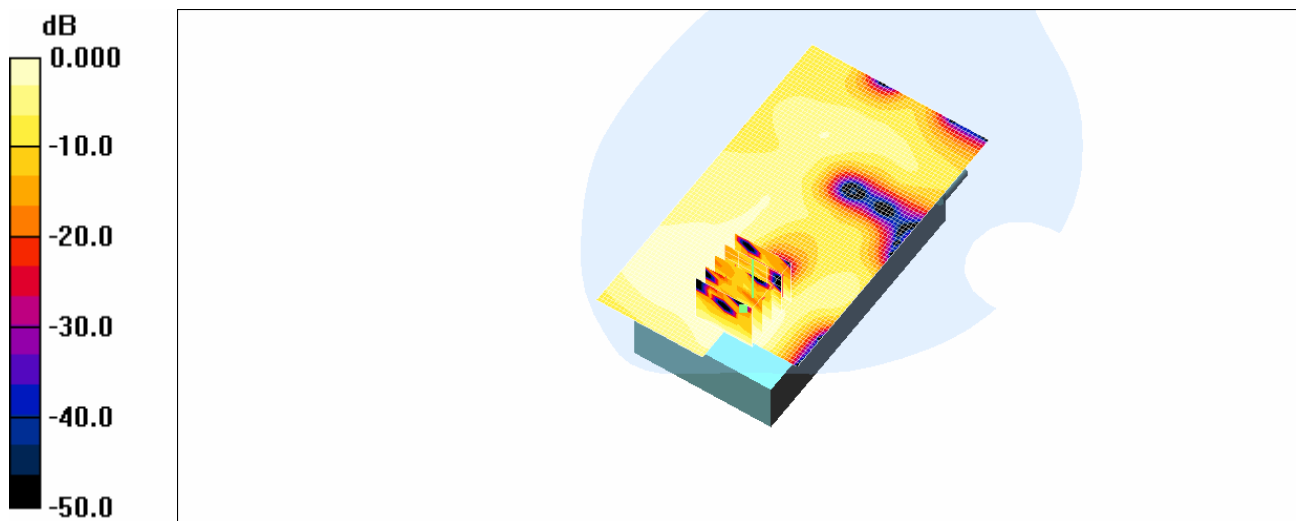Maximum value of SAR (interpolated) = 0.011 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.17 V/m; Power Drift = 0.160 dB
Peak SAR (extrapolated) = 0.015 W/kg
SAR(1 g) = 0.00784 mW/g; SAR(10 g) = 0.00373 mW/g

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

0 dB = 0.009mW/g

Test Laboratory: KTL

AT870 802.11g Ch.1 Body Rear facing phantom: distance 1.5 cm
*Test Date : 22nd/Dec/2008

Measured Liquid Temperature(℃) :21.7 , Ambient Temperature(℃) : 21.0

Communication System: WLAN; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: 2450D Medium parameters used: f = 2412 MHz; σ = 1.92 mho/m; $ε_r$ = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(3.82, 3.82, 3.82); Calibrated: 2008-07-21

- 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 (51x91x1): Measurement grid: dx=20mm, dy=20mm
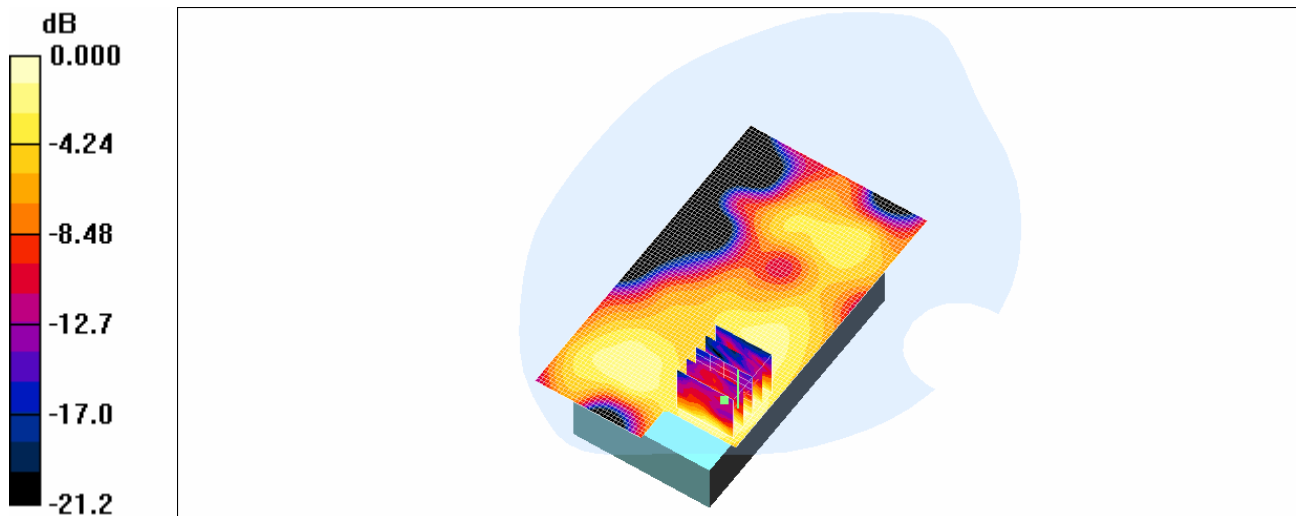Maximum value of SAR (interpolated) = 0.016 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.35 V/m; Power Drift = 0.128 dB
Peak SAR (extrapolated) = 0.027 W/kg
SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00727 mW/g
Maximum value of SAR (measured) = 0.015 mW/g

0 dB = 0.015mW/g

Test Laboratory: KTL

AT870 802.11g Ch.11 Body Rear facing phantom: distance 1.5 cm
*Test Date : 22nd/Dec/2008

Measured Liquid Temperature(℃) :21.7 , Ambient Temperature(℃) : 21.0

Communication System: WLAN; Frequency: 2462 MHz;Duty Cycle: 1:1
Medium: 2450D Medium parameters used: f = 2462 MHz; σ = 2 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3020; ConvF(3.82, 3.82, 3.82); Calibrated: 2008-07-21

- 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 (51x91x1): Measurement grid: dx=20mm, dy=20mm
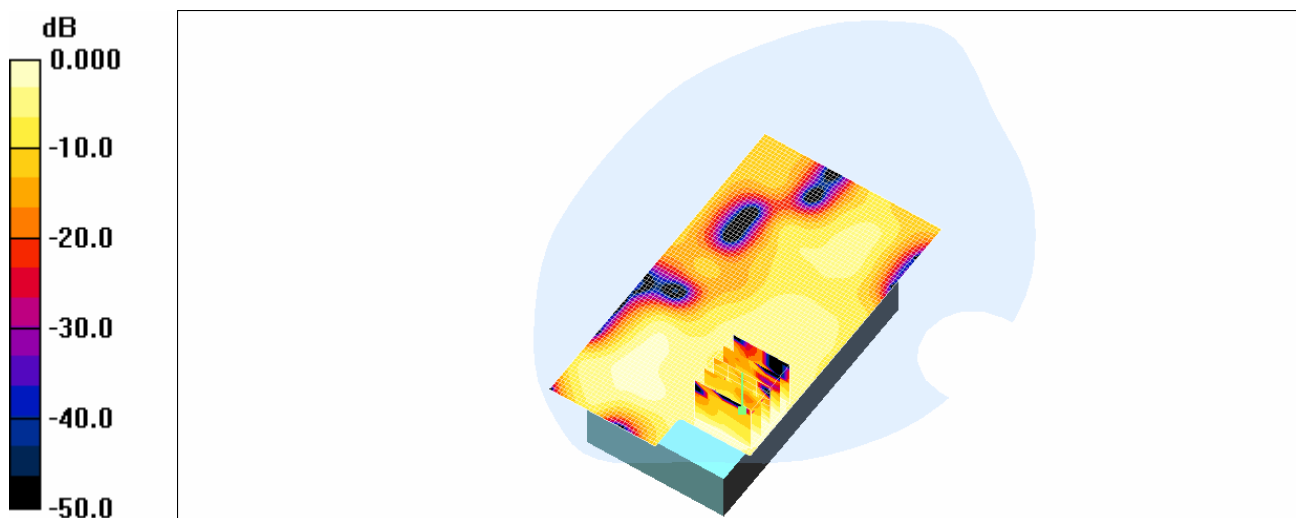Maximum value of SAR (interpolated) = 0.017 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.36 V/m; Power Drift = 0.123 dB
Peak SAR (extrapolated) = 0.030 W/kg
SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00764 mW/g
Maximum value of SAR (measured) = 0.016 mW/g

0 dB = 0.016mW/g