

Date/Time: 04/15/03 13:28:54

Test Laboratory: NOKIA Oulu; DTX07046-EN

DUT: QTL-RH4; Type: flip closed; without stylus; Serial: 004400/18/172203/2

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

Medium: Head 1900 MHz ($s = 1.45277$ mho/m, $\epsilon_r = 38.7092$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.1, 5.1, 5.1); Calibrated: 21.10.2002
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 18.10.2002
- Phantom: SAM_2; Type: SAM; Serial: TP-1003
- Measurement SW: DASY4, V4.0 Build 51; Postprocessing SW: SEMCAD, V1.6 Build 115

Cheek; T = 22.1 C; worst case extrapolation/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 15 V/m

Power Drift = 0.007 dB

Maximum value of SAR = 0.376 mW/g

Cheek; T = 22.1 C; worst case extrapolation/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

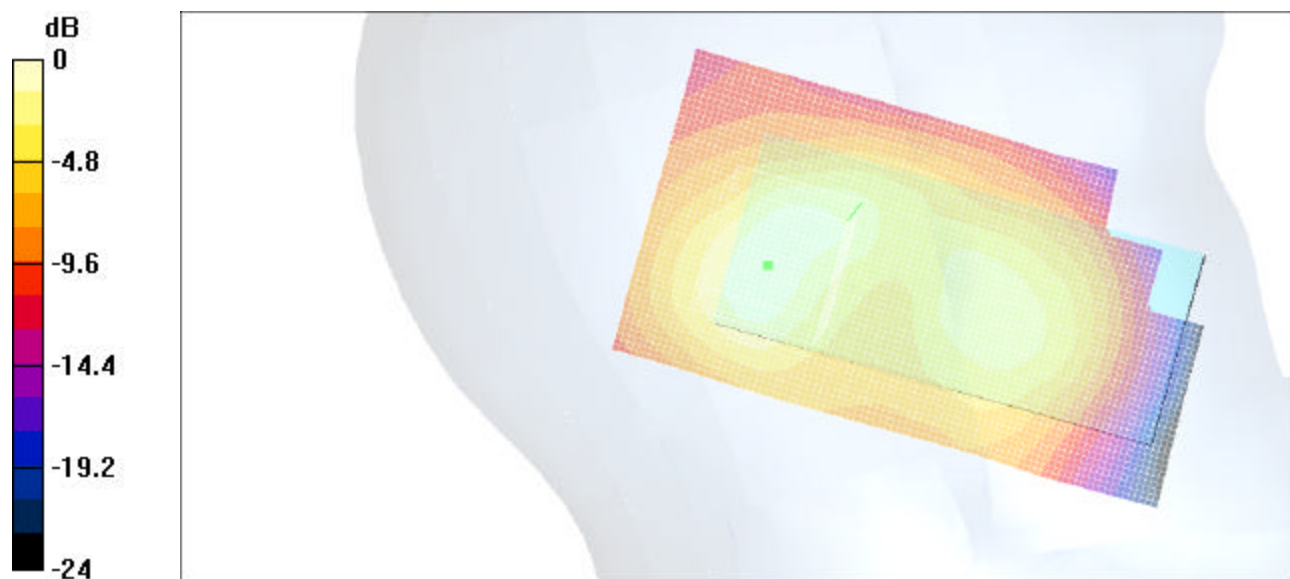
Peak SAR (extrapolated) = 0.783 W/kg

SAR(1 g) = 0.36 mW/g; SAR(10 g) = 0.188 mW/g

Reference Value = 15 V/m

Power Drift = 0.007 dB

Maximum value of SAR = 0.376 mW/g



0 dB = 0.376mW/g

Date/Time: 04/15/03 13:29:24

Test Laboratory: NOKIA Oulu; DTX07046-EN

DUT: QTL-RH4; Type: flip closed; without stylus; Serial: 004400/18/172203/2

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

Medium: Head 1900 MHz ($s = 1.45277$ mho/m, $\epsilon_r = 38.7092$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.1, 5.1, 5.1); Calibrated: 21.10.2002
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 18.10.2002
- Phantom: SAM_2; Type: SAM; Serial: TP-1003
- Measurement SW: DASY4, V4.0 Build 51; Postprocessing SW: SEMCAD, V1.6 Build 115

Tilted; T = 22.1 C; worst case extrapolation/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 15.6 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 0.414 mW/g

Tilted; T = 22.1 C; worst case extrapolation/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

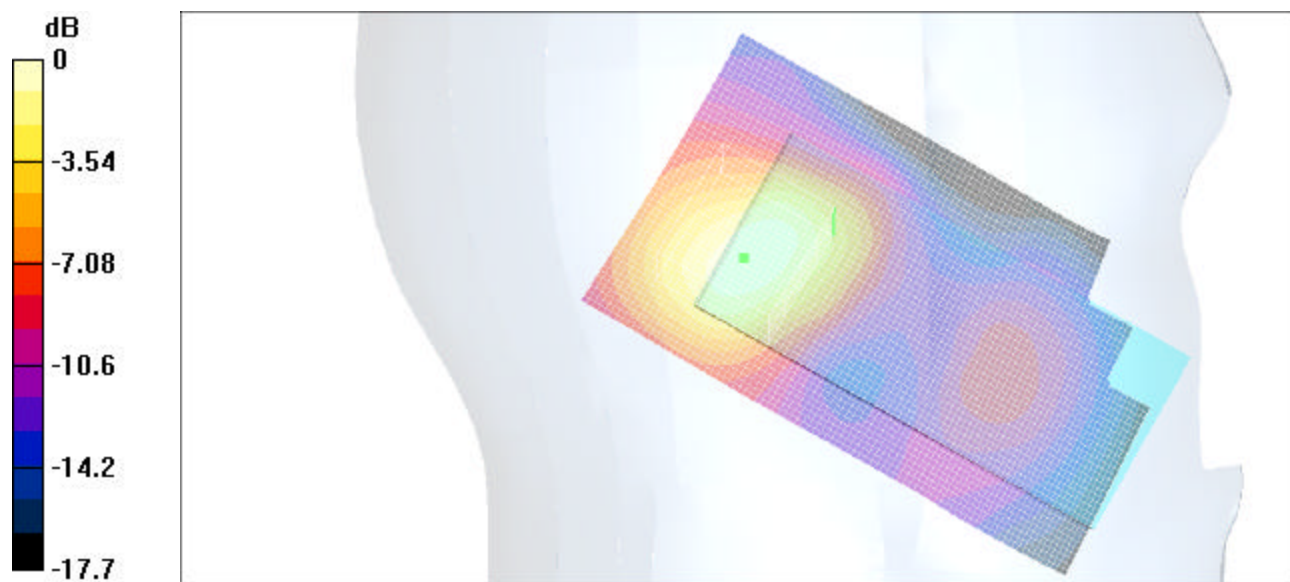
Peak SAR (extrapolated) = 0.838 W/kg

SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.202 mW/g

Reference Value = 15.6 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 0.411 mW/g



0 dB = 0.411mW/g

Date/Time: 04/15/03 12:55:02

Test Laboratory: NOKIA Oulu; DTX07046-EN

DUT: QTL-RH4; Type: flip open, without stylus; Serial: 004400/18/172203/2

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

Medium: Head 1900 MHz ($\sigma = 1.40593$ mho/m, $\epsilon_r = 38.4203$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.1, 5.1, 5.1); Calibrated: 21.10.2002
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 18.10.2002
- Phantom: SAM_2; Type: SAM; Serial: TP-1003
- Measurement SW: DASY4, V4.0 Build 51; Postprocessing SW: SEMCAD, V1.6 Build 115

Cheek; T = 21.1 C; worst case extrapolation/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 13.6 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.321 mW/g

Cheek; T = 21.1 C; worst case extrapolation/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

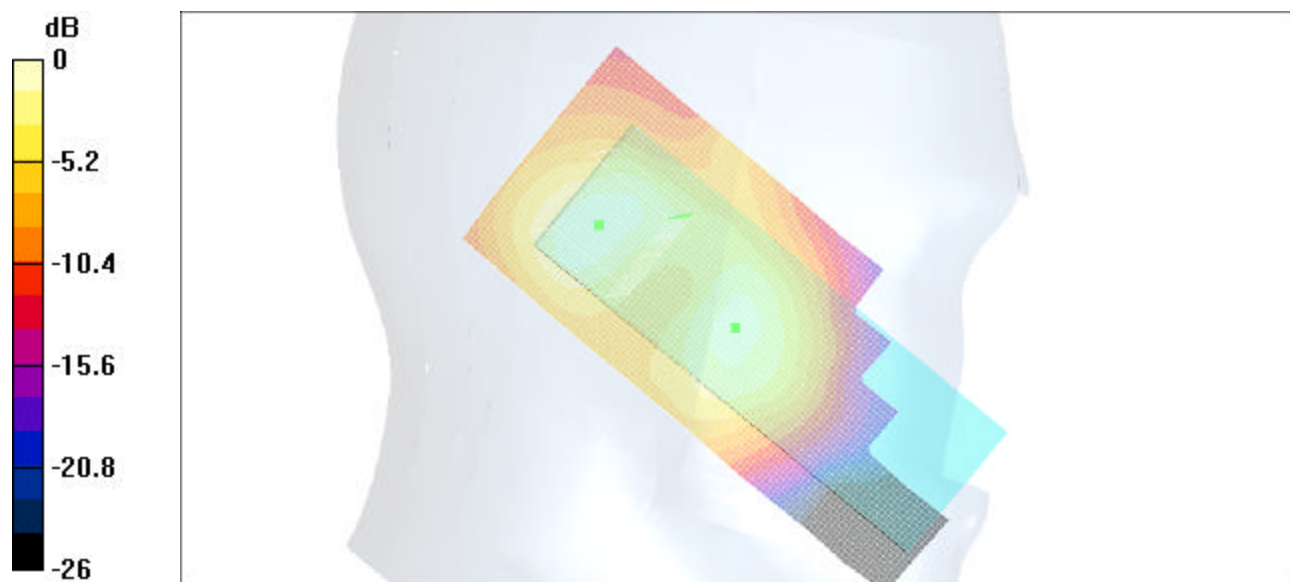
Peak SAR (extrapolated) = 0.69 W/kg

SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.158 mW/g

Reference Value = 13.6 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.318 mW/g



0 dB = 0.318mW/g

Date/Time: 04/15/03 13:16:46

Test Laboratory: NOKIA Oulu; DTX07046-EN

DUT: QTL-RH4; Type: flip open, without stylus; Serial: 004400/18/172203/2

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

Medium: Head 1900 MHz ($s = 1.40593$ mho/m, $\epsilon_r = 38.4203$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.1, 5.1, 5.1); Calibrated: 21.10.2002
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 18.10.2002
- Phantom: SAM_2; Type: SAM; Serial: TP-1003
- Measurement SW: DASY4, V4.0 Build 51; Postprocessing SW: SEMCAD, V1.6 Build 115

Tilted; T = 21.2 C; worst case extrapolation/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 14.1 V/m

Power Drift = 0.04 dB

Maximum value of SAR = 0.361 mW/g

Tilted; T = 21.2 C; worst case extrapolation/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

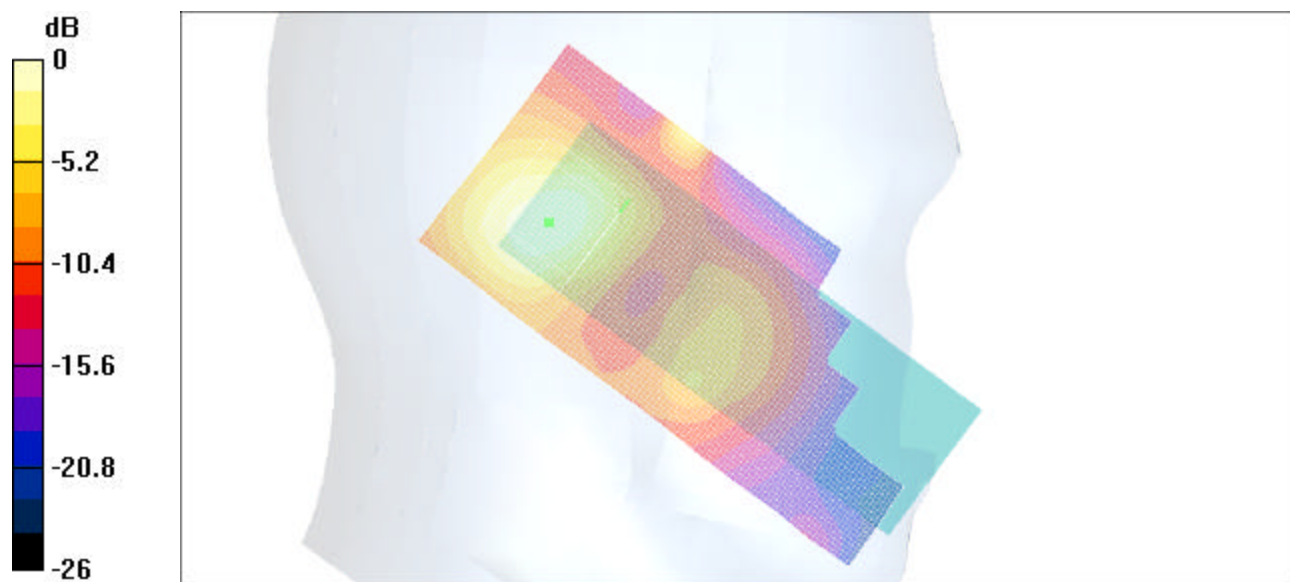
Peak SAR (extrapolated) = 0.737 W/kg

SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.17 mW/g

Reference Value = 14.1 V/m

Power Drift = 0.04 dB

Maximum value of SAR = 0.356 mW/g



0 dB = 0.356mW/g

Date/Time: 04/15/03 15:12:12

Test Laboratory: NOKIA Oulu; DTX07046-EN

DUT: QTL-RH4; Type: flip closed; without stylus; Serial: 004400/18/172203/2

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

Medium: Head 1900 MHz ($\sigma = 1.43333$ mho/m, $\epsilon_r = 38.283$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.1, 5.1, 5.1); Calibrated: 21.10.2002
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 18.10.2002
- Phantom: SAM_2; Type: SAM; Serial: TP-1003
- Measurement SW: DASY4, V4.0 Build 51; Postprocessing SW: SEMCAD, V1.6 Build 115

Cheek; T = 21.5 C; worst case extrapolation/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 14 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 0.524 mW/g

Cheek; T = 21.5 C; worst case extrapolation/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

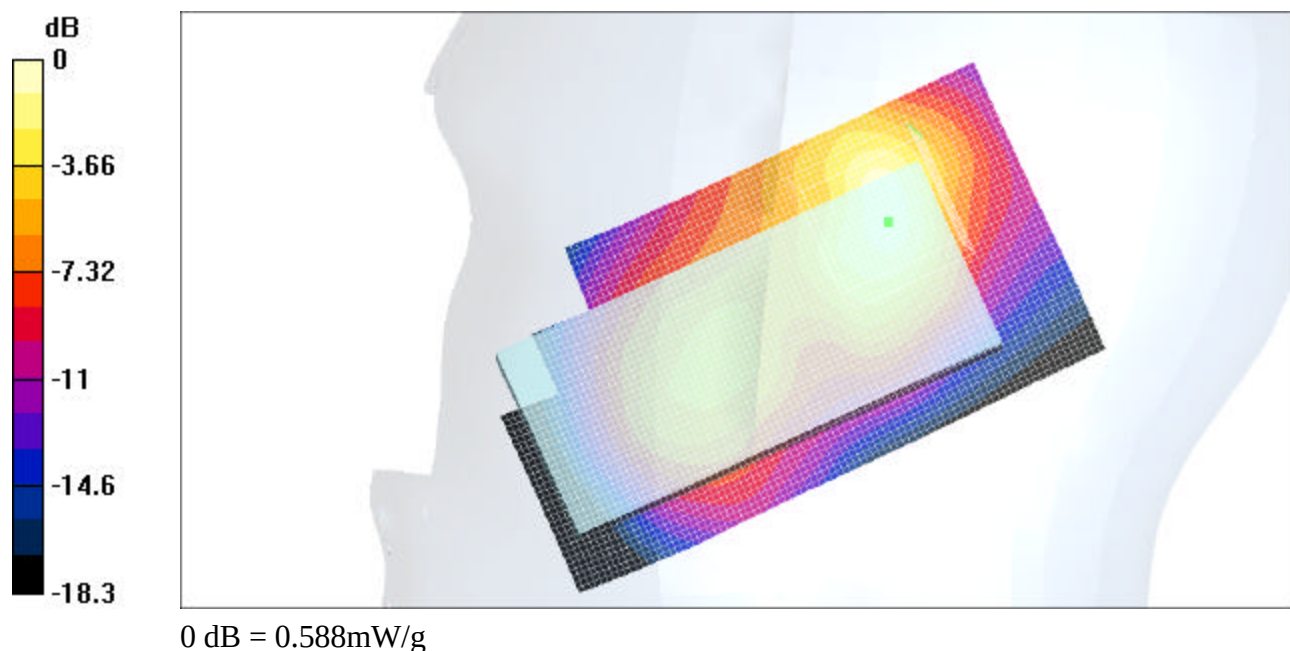
Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.558 mW/g; SAR(10 g) = 0.267 mW/g

Reference Value = 14 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 0.588 mW/g



Date/Time: 04/15/03 15:09:40

Test Laboratory: NOKIA Oulu; DTX07046-EN

DUT: QTL-RH4; Type: flip closed; without stylus; Serial: 004400/18/172203/2

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

Medium: Head 1900 MHz ($s = 1.37656$ mho/m, $\epsilon_r = 38.6148$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.1, 5.1, 5.1); Calibrated: 21.10.2002
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 18.10.2002
- Phantom: SAM_2; Type: SAM; Serial: TP-1003
- Measurement SW: DASY4, V4.0 Build 51; Postprocessing SW: SEMCAD, V1.6 Build 115

Tilted; T = 21.5 C; worst case extrapolation/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 14.9 V/m

Power Drift = 0.03 dB

Maximum value of SAR = 0.515 mW/g

Tilted; T = 21.5 C; worst case extrapolation/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

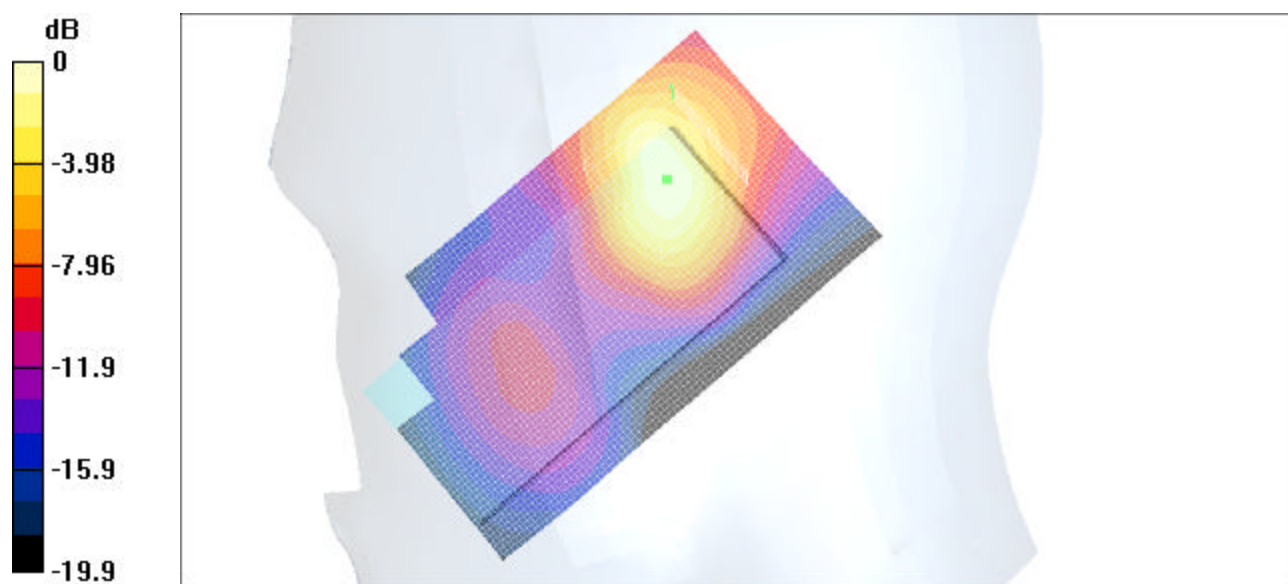
Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.521 mW/g; SAR(10 g) = 0.247 mW/g

Reference Value = 14.9 V/m

Power Drift = 0.03 dB

Maximum value of SAR = 0.557 mW/g



0 dB = 0.557mW/g

Date/Time: 04/15/03 10:49:00

Test Laboratory: NOKIA Oulu; DTX07046-EN

DUT: QTL-RH4; Type: flip open, without stylus; Serial: 004400/18/172203/2

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

Medium: Head 1900 MHz ($s = 1.45277$ mho/m, $\epsilon_r = 38.7092$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.1, 5.1, 5.1); Calibrated: 21.10.2002
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 18.10.2002
- Phantom: SAM_2; Type: SAM; Serial: TP-1003
- Measurement SW: DASY4, V4.0 Build 51; Postprocessing SW: SEMCAD, V1.6 Build 115

Cheek; T = 22.0 C; worst case extrapolation/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 15.1 V/m

Power Drift = 0.02 dB

Maximum value of SAR = 0.514 mW/g

Cheek; T = 22.0 C; worst case extrapolation/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

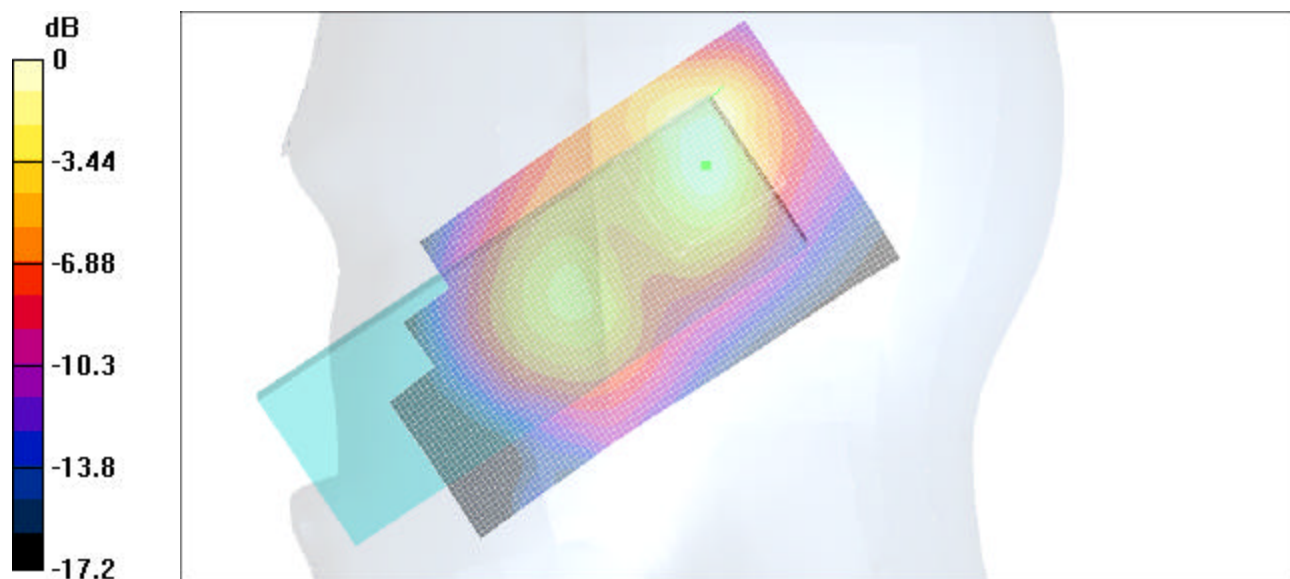
Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.503 mW/g; SAR(10 g) = 0.242 mW/g

Reference Value = 15.1 V/m

Power Drift = 0.02 dB

Maximum value of SAR = 0.521 mW/g



0 dB = 0.521mW/g

Date/Time: 04/15/03 10:46:22

Test Laboratory: NOKIA Oulu; DTX07046-EN

DUT: QTL-RH4; Type: flip open, without stylus; Serial: 004400/18/172203/2

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

Medium: Head 1900 MHz ($s = 1.45277$ mho/m, $\epsilon_r = 38.7092$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.1, 5.1, 5.1); Calibrated: 21.10.2002
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 18.10.2002
- Phantom: SAM_2; Type: SAM; Serial: TP-1003
- Measurement SW: DASY4, V4.0 Build 51; Postprocessing SW: SEMCAD, V1.6 Build 115

Tilted; T = 22.1 C: worst case extrapolation/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 15.3 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.512 mW/g

Tilted; T = 22.1 C: worst case extrapolation/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

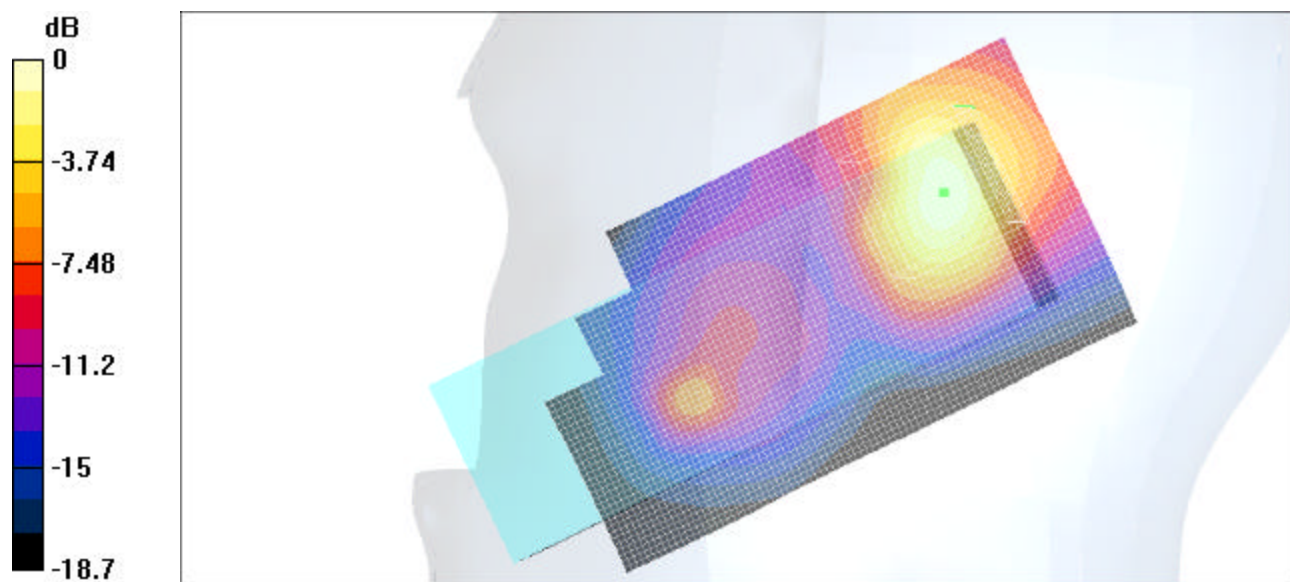
Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.239 mW/g

Reference Value = 15.3 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.534 mW/g



0 dB = 0.534mW/g

Date/Time: 04/15/03 15:34:42

Test Laboratory: NOKIA Oulu; DTX07046-EN

DUT: QTL-RH4; Type: flip closed; without stylus; Serial: 004400/18/172203/2

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: muscle 1900 MHz ($s = 1.55819$ mho/m, $\epsilon_r = 51.6045$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(4.9, 4.9, 4.9); Calibrated: 21.10.2002
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 18.10.2002
- Phantom: SAM_1; Type: SAM; Serial: TP-1128
- Measurement SW: DASY4, V4.0 Build 51; Postprocessing SW: SEMCAD, V1.6 Build 115

T = 21.3; worst case extrapolation/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 14.5 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.839 mW/g

T = 21.3; worst case extrapolation/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

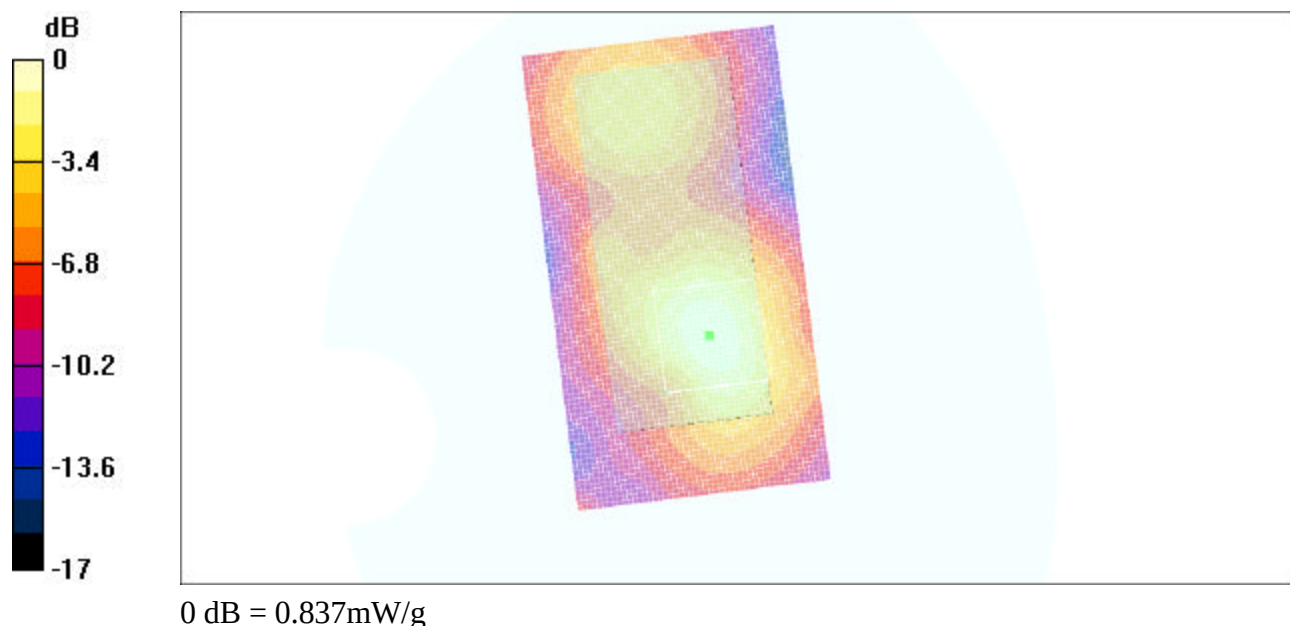
Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.805 mW/g; SAR(10 g) = 0.44 mW/g

Reference Value = 14.5 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.837 mW/g



Date/Time: 04/15/03 15:29:58

Test Laboratory: NOKIA Oulu; DTX07046-EN

DUT: QTL-RH4; Type: flip closed; without stylus; Serial: 004400/18/172203/2

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium: muscle 1900 MHz ($s = 1.55819$ mho/m, $\epsilon_r = 51.6045$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(4.9, 4.9, 4.9); Calibrated: 21.10.2002
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 18.10.2002
- Phantom: SAM_1; Type: SAM; Serial: TP-1128
- Measurement SW: DASY4, V4.0 Build 51; Postprocessing SW: SEMCAD, V1.6 Build 115

T = 21.4; worst case extrapolation/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 15.9 V/m

Power Drift = -0.0005 dB

Maximum value of SAR = 0.855 mW/g

T = 21.4; worst case extrapolation/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.813 mW/g; SAR(10 g) = 0.444 mW/g

Reference Value = 15.9 V/m

Power Drift = -0.0005 dB

Maximum value of SAR = 0.842 mW/g

