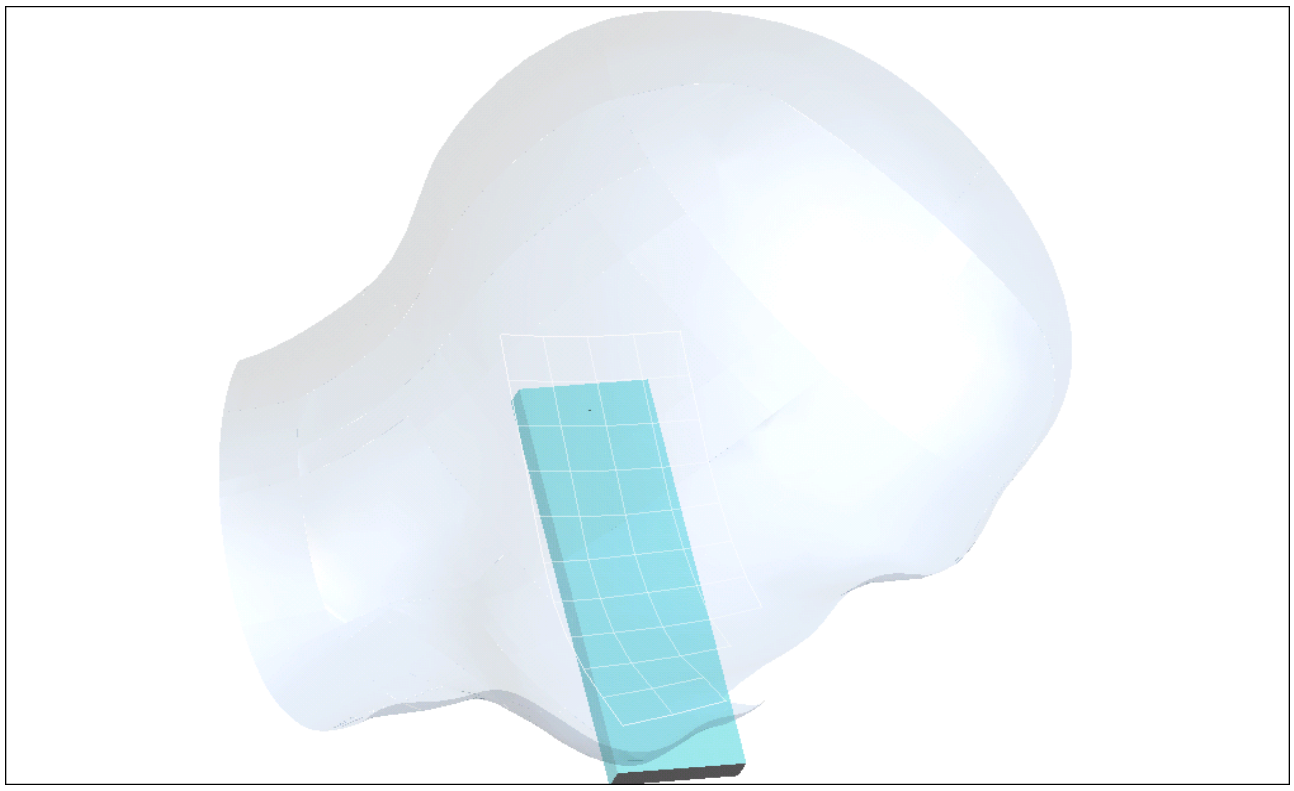
Date/Time: 07/24/03 13:56:30

LEFT-HEAD

TOUCH



Date/Time: 07/24/03 13:56:30

Test Laboratory: C&C Labratory CO., Ltd
File Name: gsm1900-LEFT.da4

gsm1900-LEFT

DUT: JOHANN; Type: JOHANN; Serial: ID:QDJ-0306JHN01
Program: Left

Communication System: GSM1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8
Medium: HSL1900 (σ = 1.42754 mho/m, ε_r = 38.7232, ρ = 1000 kg/m^3)
Air Temperature 25.8 deg C ; Liquid Temperature 25.4 deg C

Phantom section: Left Section

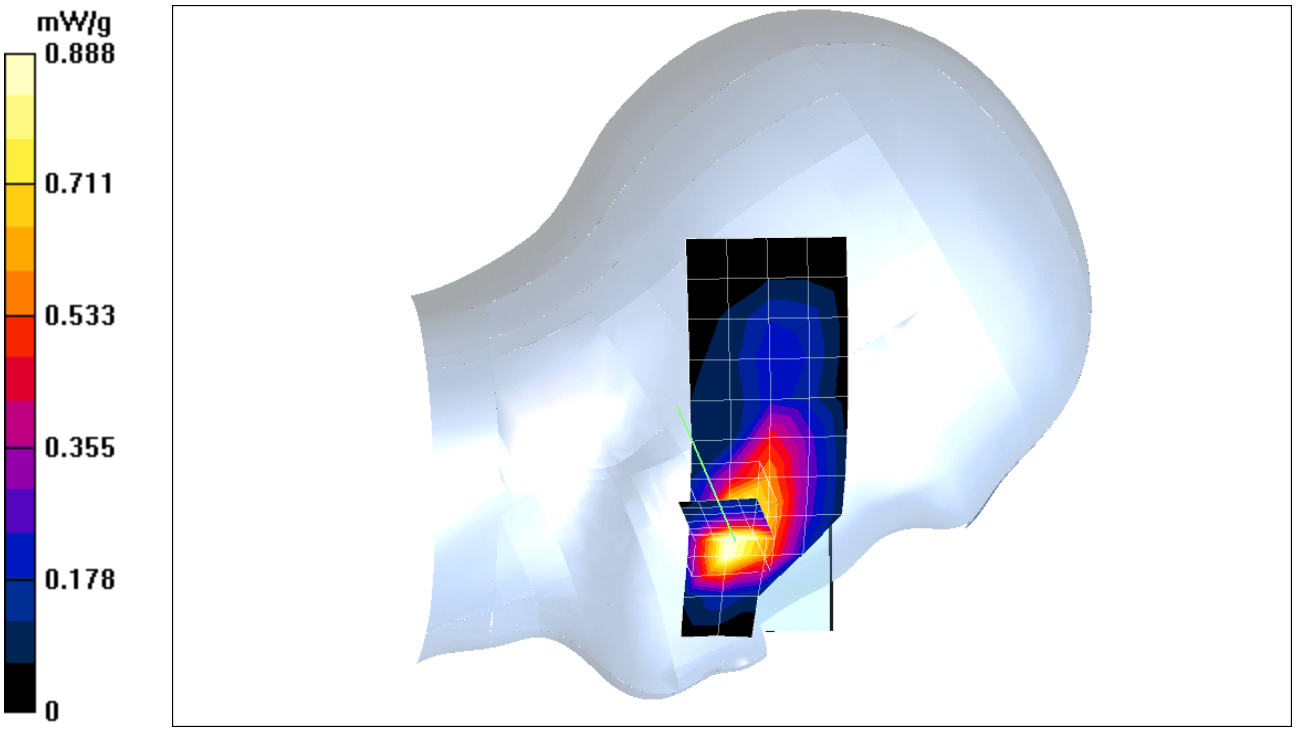
DASY4 Configuration:

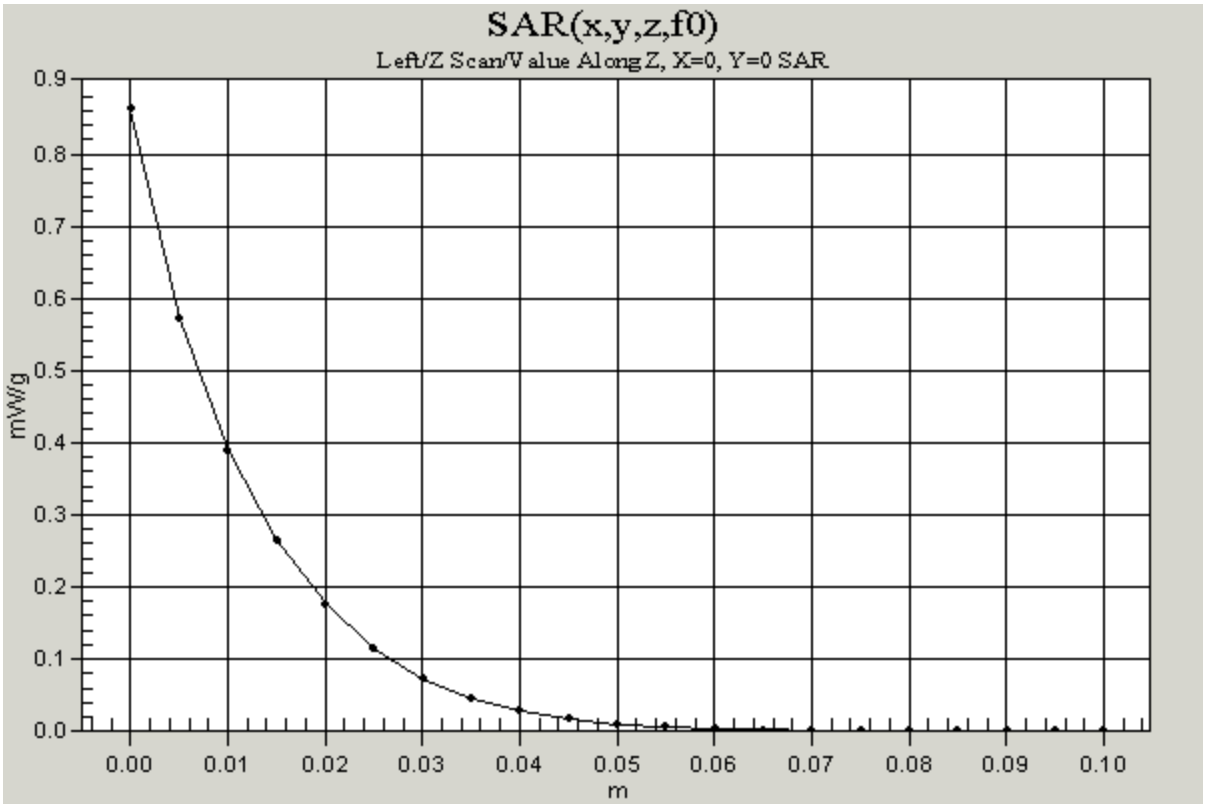
- Probe: ET3DV6 - SN1762; ConvF(5.4, 5.4, 5.4); Calibrated: 3/31/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
  Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn558; Calibrated: 3/7/2003
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

touch 512/Area Scan (5x11x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 8.87 V/m
Power Drift = 0.004 dB
Maximum value of SAR = 0.888 mW/g

touch 512/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Reference Value = 8.87 V/m
Power Drift = -0.007 dB
Maximum value of SAR = 0.864 mW/g

touch 512/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) = 0.958 mW/g; SAR(10 g) = 0.58 mW/g
Reference Value = 8.87 V/m
Power Drift = 0.004 dB
Maximum value of SAR = 1.04 mW/g


mW/g
0.888
0.711
0.533
0.355
0.178
0


SAR(x,y,z,f0)
Left/Z Scan/Value Along Z, X=0, Y=0 SAR
mW/g
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
m

Date/Time: 07/24/03 14:33:31

Test Laboratory: C&C Labratory CO., Ltd
File Name: gsm1900-LEFT.da4

gsm1900-LEFT

DUT: JOHANN; Type: JOHANN; Serial: ID:QDJ-0306JHN01
Program: Left

Communication System: GSM1900; Frequency: 1880 MHz;Duty Cycle: 1:8
Medium: HSL1900 (σ = 1.42754 mho/m, ε_r = 38.7232, ρ = 1000 kg/m^3)
Air Temperature 25.8 deg C ; Liquid Temperature 25.4deg C
Phantom section: Left Section

DASY4 Configuration:

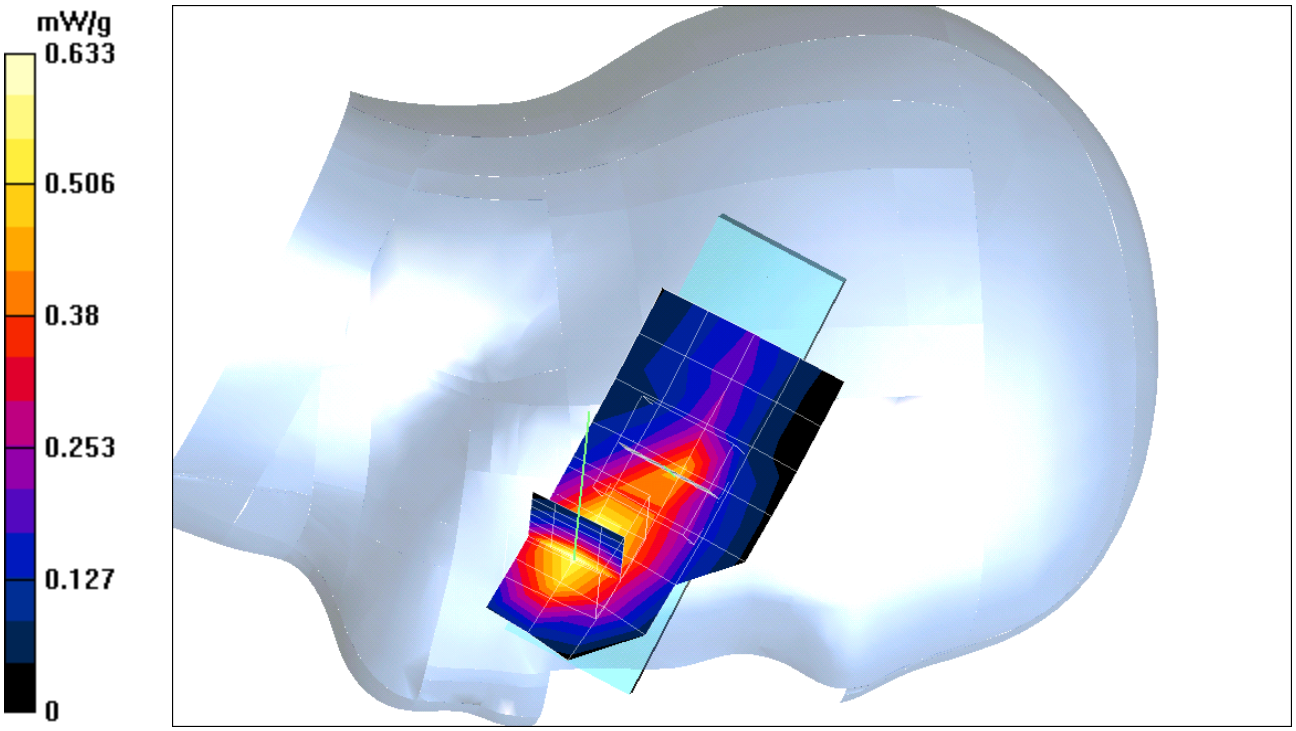
- Probe: ET3DV6 - SN1762; ConvF(5.4, 5.4, 5.4); Calibrated: 3/31/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
  Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn558; Calibrated: 3/7/2003
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

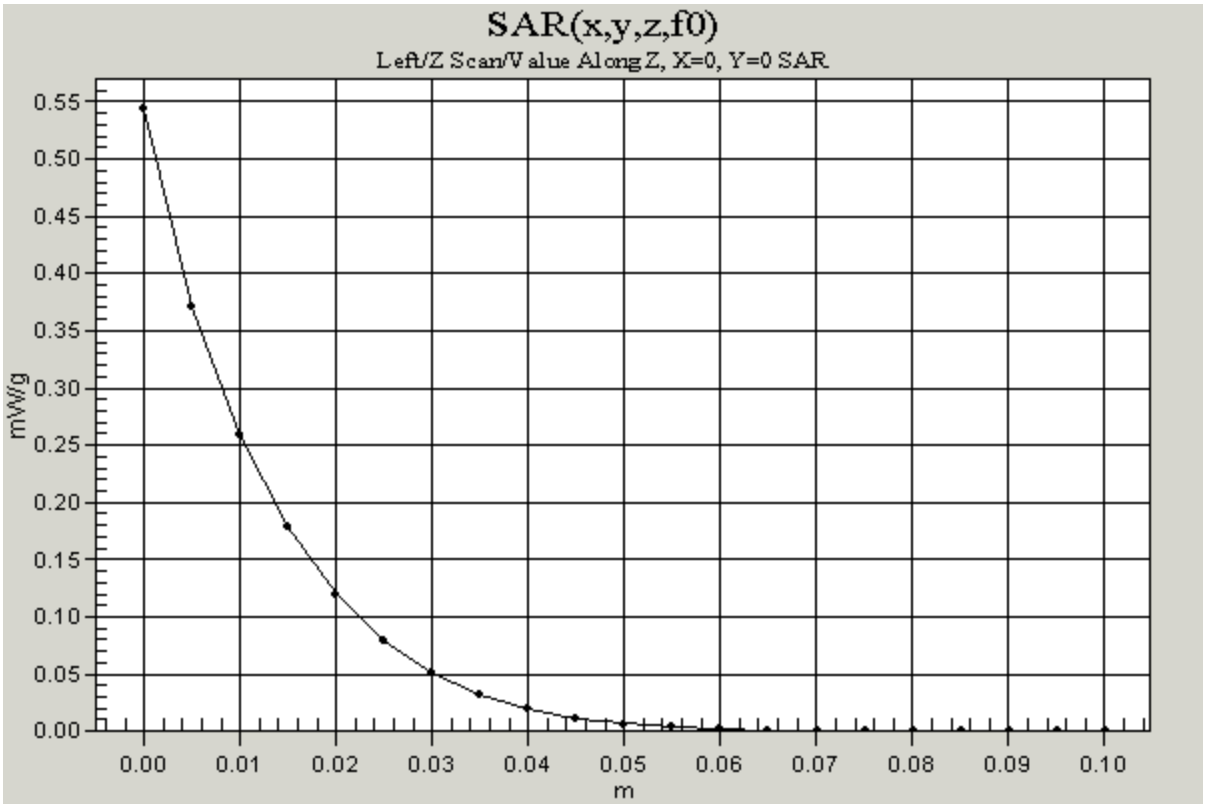
touch 661/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 7.84 V/m
Power Drift = 0.001 dB
Maximum value of SAR = 0.633 mW/g

touch 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Peak SAR (extrapolated) = 0.869 W/kg
SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.379 mW/g
Reference Value = 7.84 V/m
Power Drift = 0.001 dB
Maximum value of SAR = 0.657 mW/g

touch 661/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Peak SAR (extrapolated) = 0.749 W/kg
SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.235 mW/g
Reference Value = 7.84 V/m
Power Drift = 0.001 dB
Maximum value of SAR = 0.459 mW/g

touch 661/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Reference Value = 7.84 V/m
Power Drift = -0.01 dB
Maximum value of SAR = 0.545 mW/g


mW/g
0.633
0.506
0.38
0.253
0.127
0


SAR(x,y,z,f0)
Left/Z Scan/Value Along Z, X=0, Y=0 SAR
mW/g
0.55
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
m

Date/Time: 07/24/03 14:59:06

Test Laboratory: C&C Labratory CO., Ltd
File Name: gsm1900-LEFT.da4

gsm1900-LEFT

DUT: JOHANN; Type: JOHANN; Serial: ID:QDJ-0306JHN01
Program: Left

Communication System: GSM1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8
Medium: HSL1900 (σ = 1.42754 mho/m, ε_r = 38.7232, ρ = 1000 kg/m^3)
Air Temperature 25.8 deg C ; Liquid Temperature 25.4 deg C
Phantom section: Left Section

DASY4 Configuration:

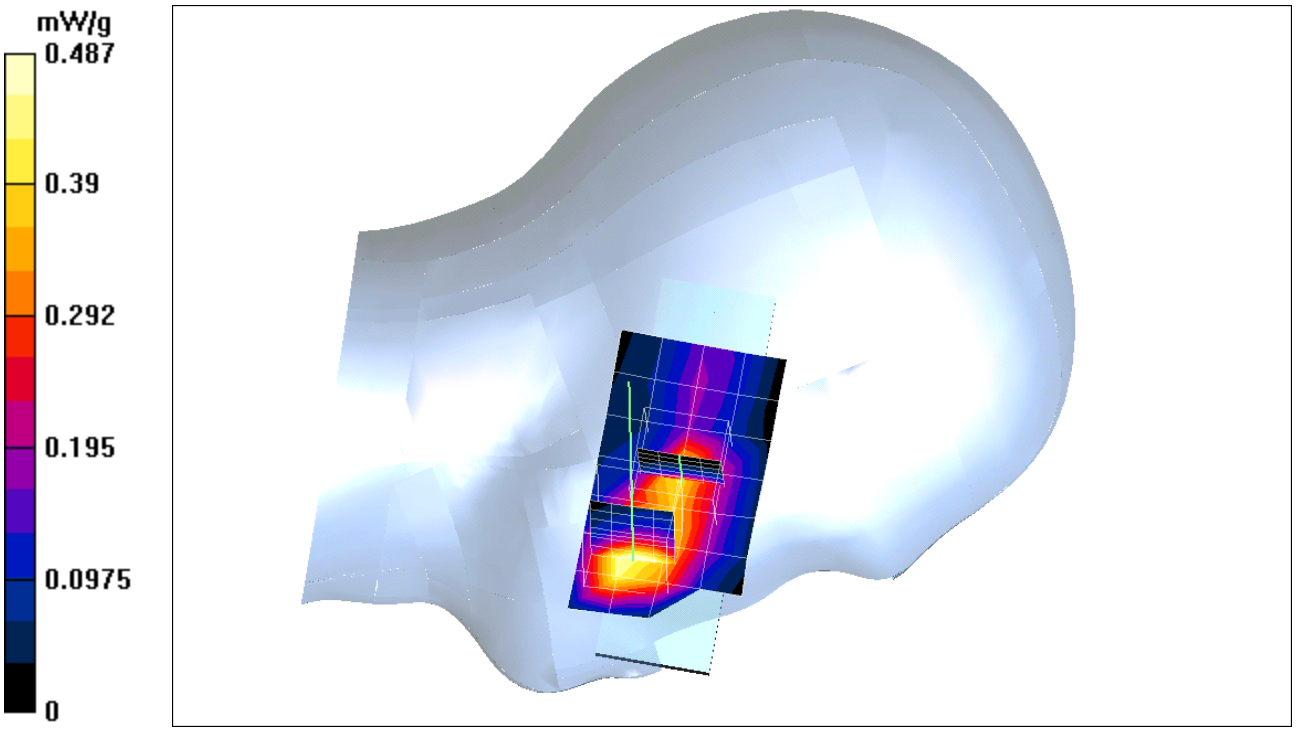
- Probe: ET3DV6 - SN1762; ConvF(5.4, 5.4, 5.4); Calibrated: 3/31/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
  Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn558; Calibrated: 3/7/2003
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

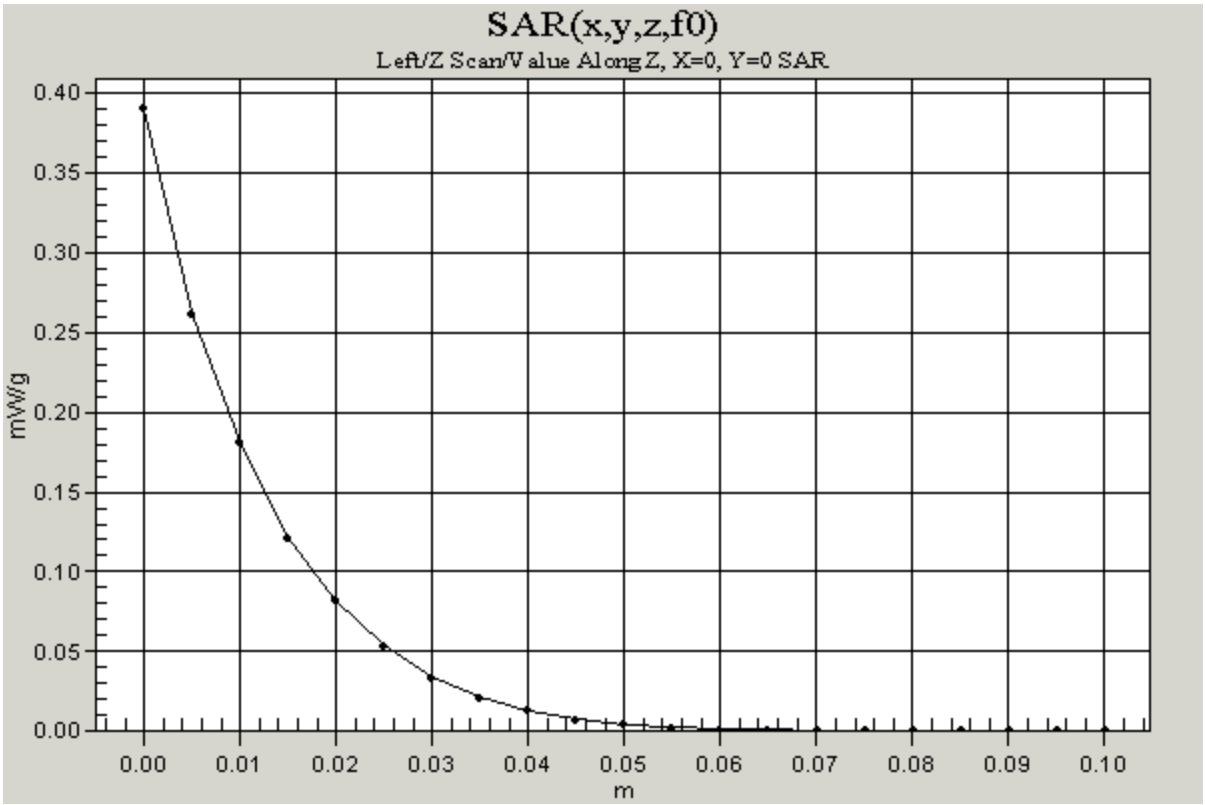
touch 810/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 7.48 V/m
Power Drift = 0.2 dB
Maximum value of SAR = 0.487 mW/g

touch 810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Peak SAR (extrapolated) = 0.733 W/kg
SAR(1 g) = 0.51 mW/g; SAR(10 g) = 0.311 mW/g
Reference Value = 7.48 V/m
Power Drift = 0.2 dB
Maximum value of SAR = 0.561 mW/g

touch 810/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Reference Value = 7.48 V/m
Power Drift = 0.2 dB
Maximum value of SAR = 0.391 mW/g

touch 810/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Peak SAR (extrapolated) = 0.709 W/kg
SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.212 mW/g
Reference Value = 7.48 V/m
Power Drift = 0.2 dB
Maximum value of SAR = 0.44 mW/g

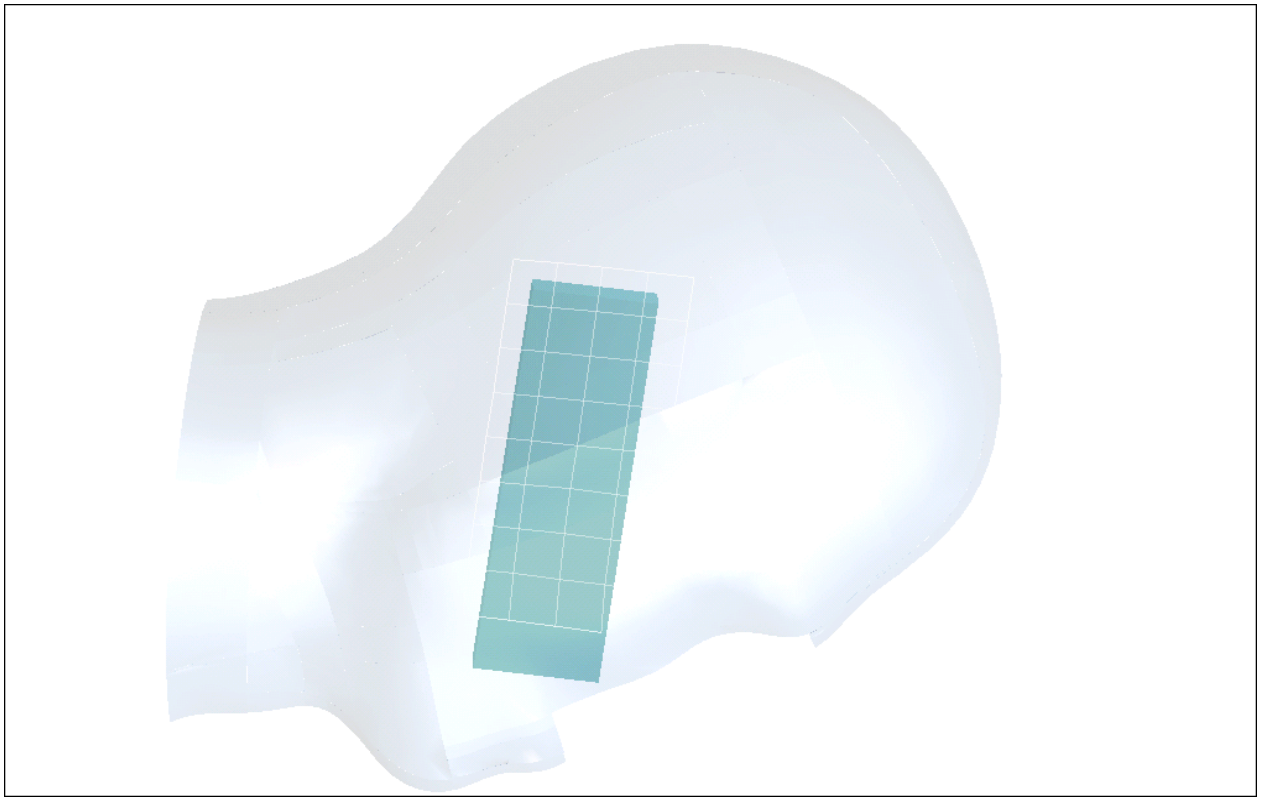

mW/g
0.487
0.39
0.292
0.195
0.0975
0


SAR(x,y,z,f0)
Left/Z Scan/Value Along Z, X=0, Y=0 SAR
mW/g
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
m

Date/Time: 07/24/03 15:34:54

LEFT-HEAH

TILTE



Date/Time: 07/24/03 15:34:54

Test Laboratory: C&C Labratory CO., Ltd
File Name: gsm1900-LEFT.da4

gsm1900-LEFT

DUT: JOHANN; Type: JOHANN; Serial: ID:QDJ-0306JHN01
Program: Left

Communication System: GSM1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8
Medium: HSL1900 (σ = 1.42754 mho/m, ε_r = 38.7232, ρ = 1000 kg/m^3)
Air Temperature 25.8 deg C ; Liquid Temperature 25.4 deg C
Phantom section: Left Section

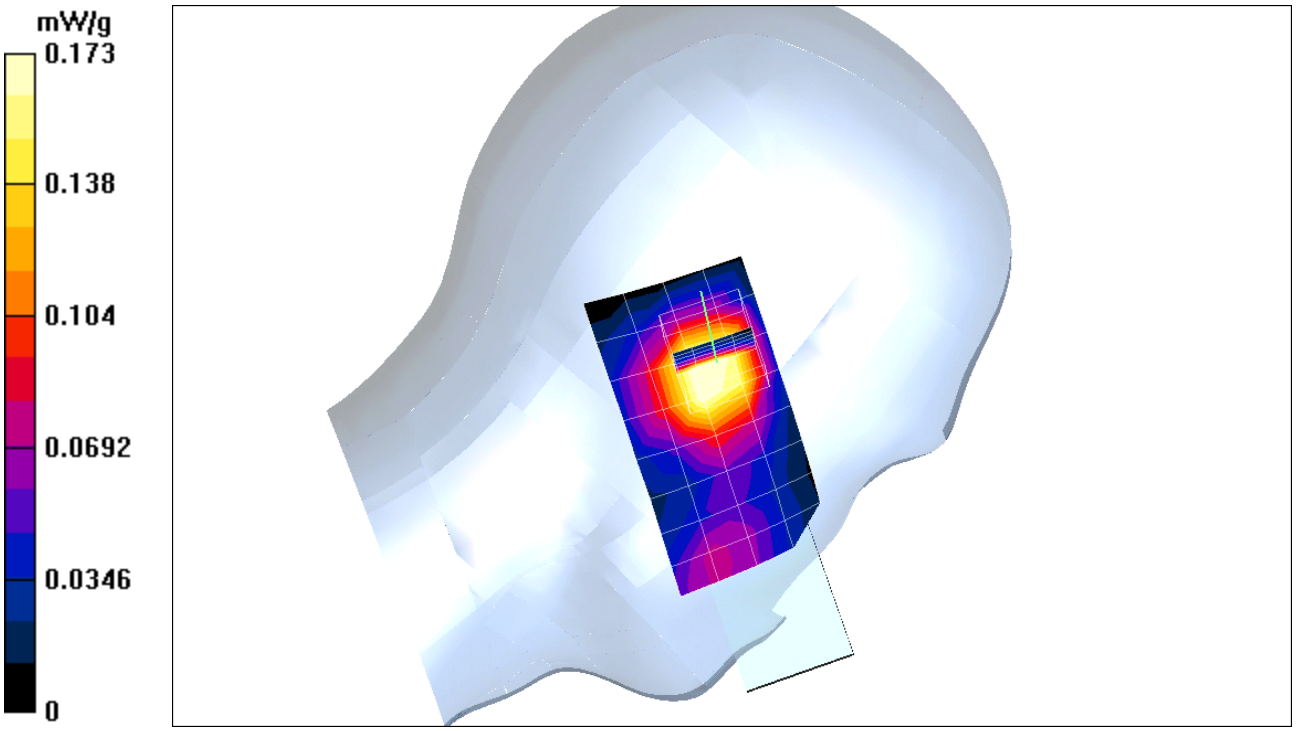
DASY4 Configuration:

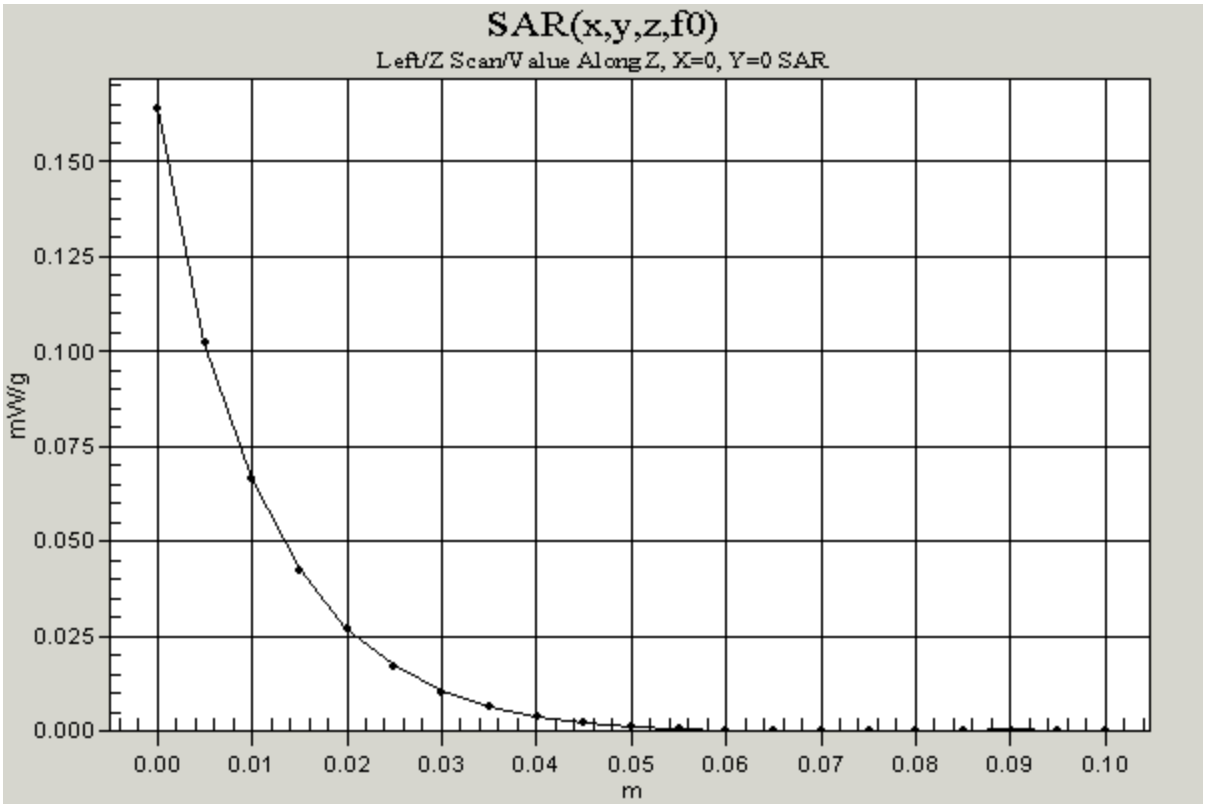
- Probe: ET3DV6 - SN1762; ConvF(5.4, 5.4, 5.4); Calibrated: 3/31/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
  Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn558; Calibrated: 3/7/2003
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

tilte 512/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 9.9 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.173 mW/g

tilte 512/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Reference Value = 9.9 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.164 mW/g

tilte 512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Peak SAR (extrapolated) = 0.284 W/kg
SAR(1 g) = 0.193 mW/g; SAR(10 g) = 0.116 mW/g
Reference Value = 9.9 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.204 mW/g


mW/g
0.173
0.138
0.104
0.0692
0.0346
0


SAR(x,y,z,f0)
Left/Z Scan/Value Along Z, X=0, Y=0 SAR
mW/g
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
m

Date/Time: 07/24/03 16:03:34

Test Laboratory: C&C Labratory CO., Ltd
File Name: gsm1900-LEFT.da4

gsm1900-LEFT

DUT: JOHANN; Type: JOHANN; Serial: ID:QDJ-0306JHN01
Program: Left

Communication System: GSM1900; Frequency: 1880 MHz;Duty Cycle: 1:8
Medium: HSL1900 (σ = 1.42754 mho/m, ε_r = 38.7232, ρ = 1000 kg/m^3)
Air Temperature 25.8 deg C ; Liquid Temperature 25.4 deg C
Phantom section: Left Section

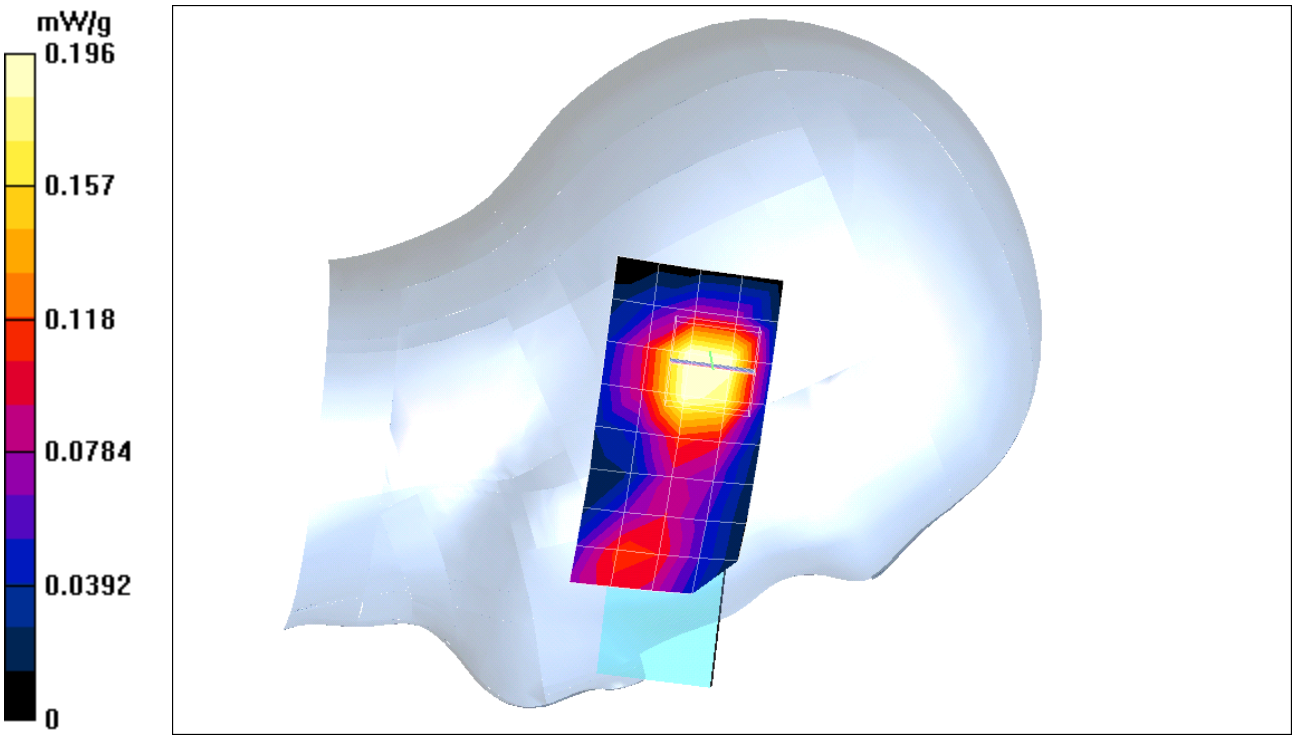
DASY4 Configuration:

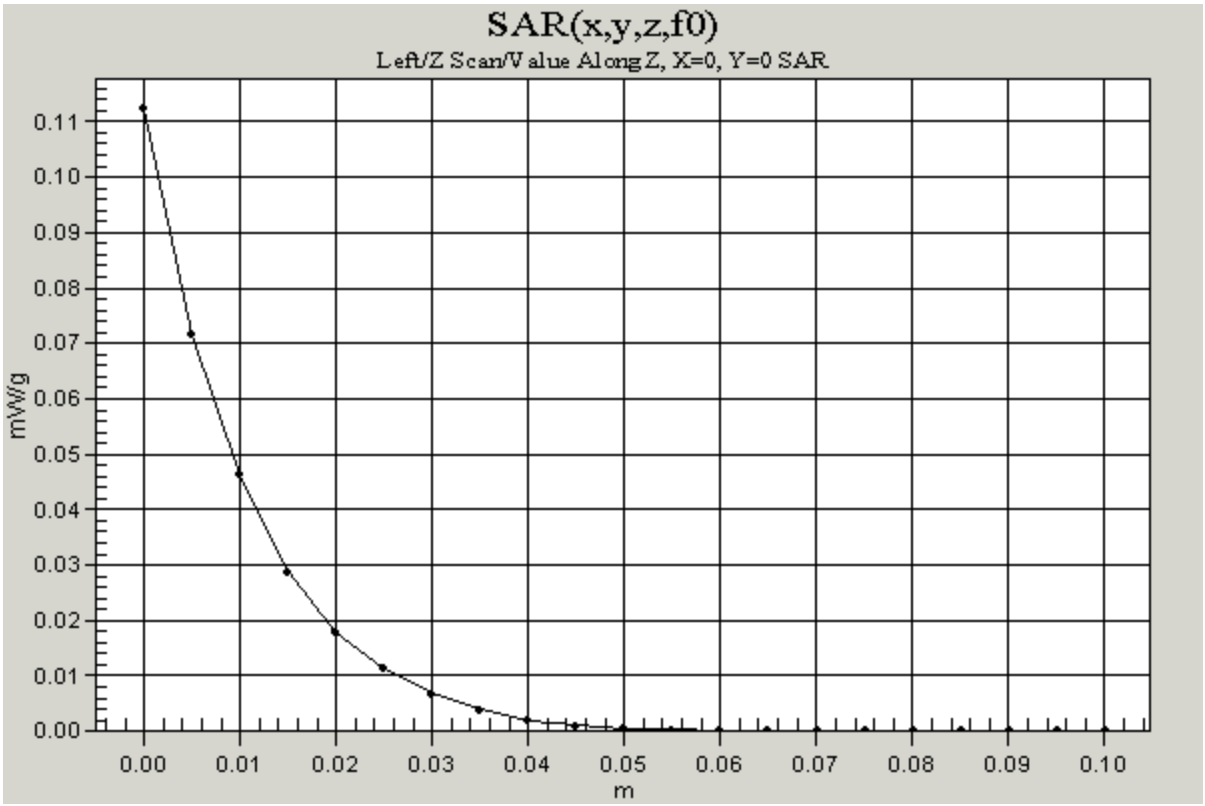
- Probe: ET3DV6 - SN1762; ConvF(5.4, 5.4, 5.4); Calibrated: 3/31/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
  Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn558; Calibrated: 3/7/2003
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

tilte 661/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 10.1 V/m
Power Drift = -0.03 dB
Maximum value of SAR = 0.196 mW/g

tilte 661/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Reference Value = 10.1 V/m
Power Drift = -0.02 dB
Maximum value of SAR = 0.112 mW/g

tilte 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Peak SAR (extrapolated) = 0.324 W/kg
SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.131 mW/g
Reference Value = 10.1 V/m
Power Drift = -0.03 dB
Maximum value of SAR = 0.235 mW/g


mW/g
0.196
0.157
0.118
0.0784
0.0392
0


SAR(x,y,z,f0)
Left/Z Scan/Value Along Z, X=0, Y=0 SAR
mW/g
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
m

Date/Time: 07/24/03 16:28:45

Test Laboratory: C&C Labratory CO., Ltd
File Name: gsm1900-LEFT.da4

gsm1900-LEFT

DUT: JOHANN; Type: JOHANN; Serial: ID:QDJ-0306JHN01
Program: Left

Communication System: GSM1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8
Medium: HSL1900 (σ = 1.42754 mho/m, ε_r = 38.7232, ρ = 1000 kg/m^3)
Air Temperature 25.8 deg C ; Liquid Temperature 25.4 deg C
Phantom section: Left Section

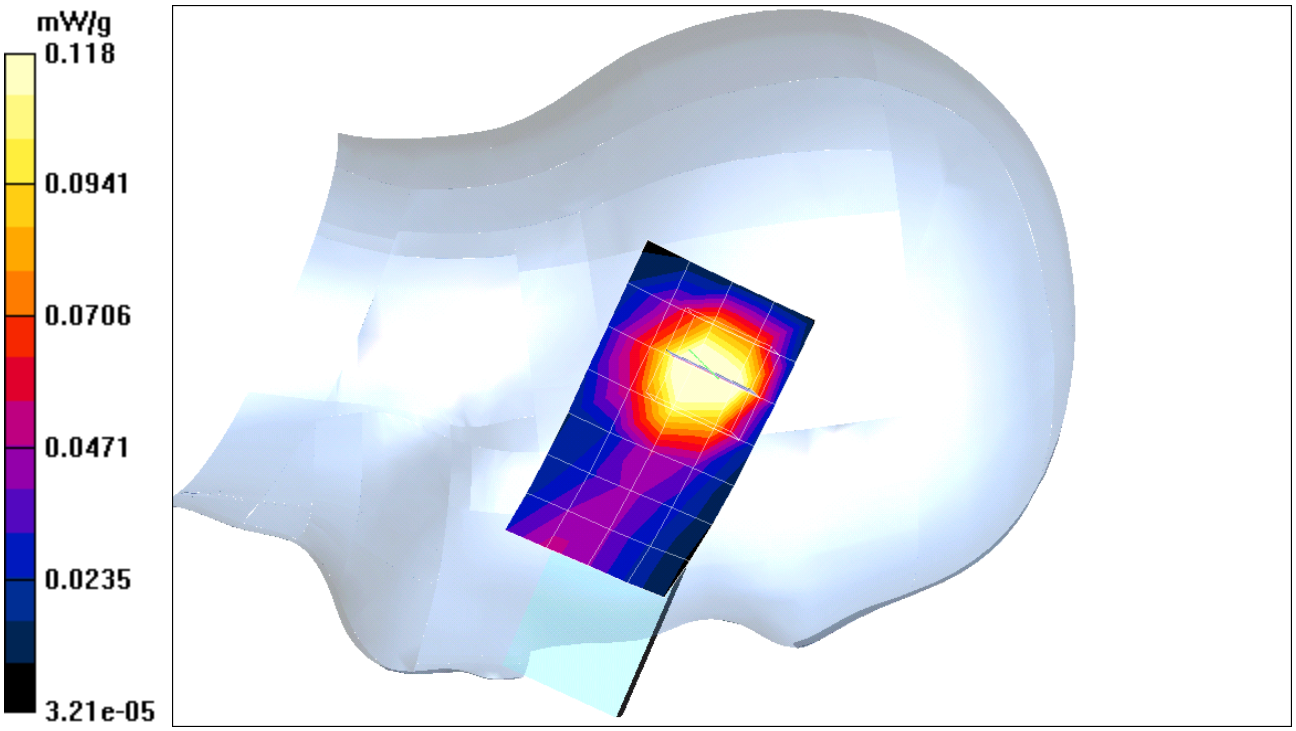
DASY4 Configuration:

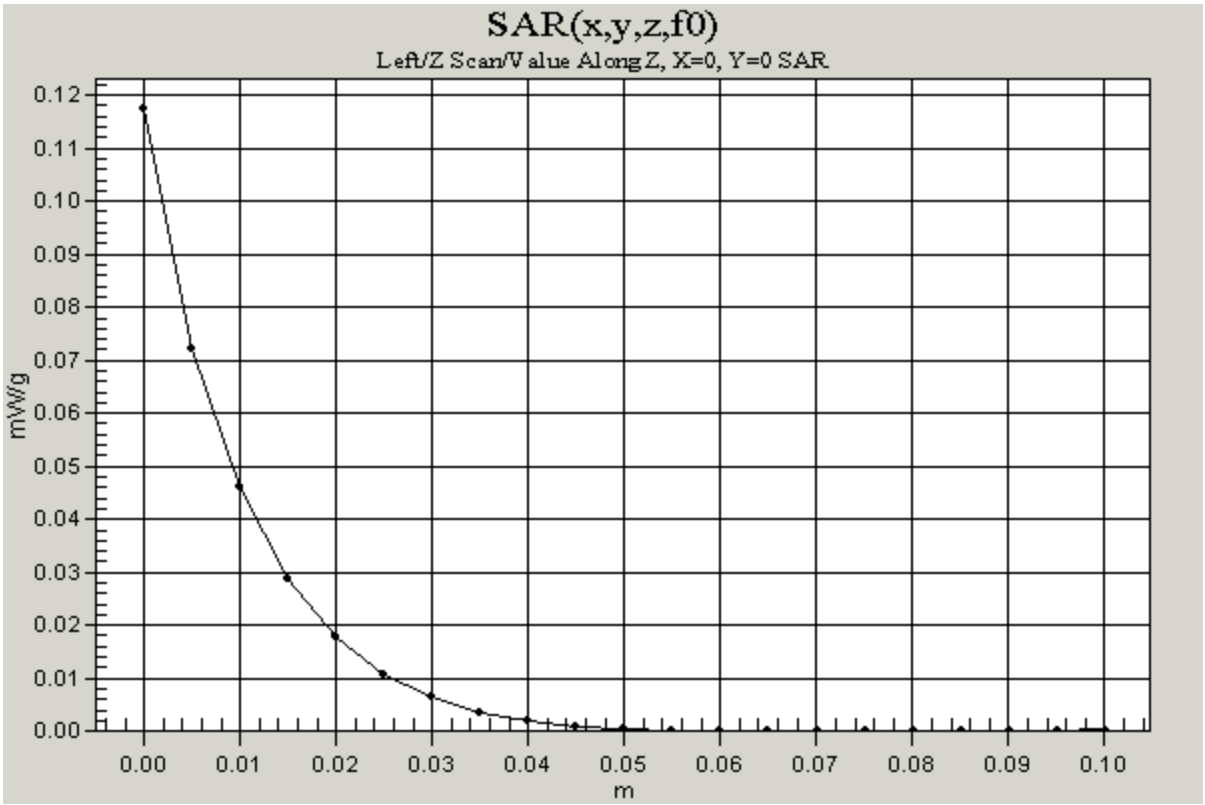
- Probe: ET3DV6 - SN1762; ConvF(5.4, 5.4, 5.4); Calibrated: 3/31/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
  Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn558; Calibrated: 3/7/2003
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

tilte 810/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 8.24 V/m
Power Drift = -0.01 dB
Maximum value of SAR = 0.14 mW/g

tilte 810/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Reference Value = 8.24 V/m
Power Drift = 0.003 dB
Maximum value of SAR = 0.118 mW/g

tilte 810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Peak SAR (extrapolated) = 0.214 W/kg
SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.0835 mW/g
Reference Value = 8.24 V/m
Power Drift = -0.01 dB
Maximum value of SAR = 0.154 mW/g


mW/g
0.118
0.0941
0.0706
0.0471
0.0235
3.21e-05


SAR(x,y,z,f0)
Left/Z Scan/Value Along Z, X=0, Y=0 SAR
mW/g
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
m