

APPENDIX B: SYSTEM CHECK SCANS

Plot 1

Date/Time: 11.01.2017 16:48:45

Test Laboratory: Verkotan Oy

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:448
Program Name: System Performance Check at 835 MHz

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.944 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

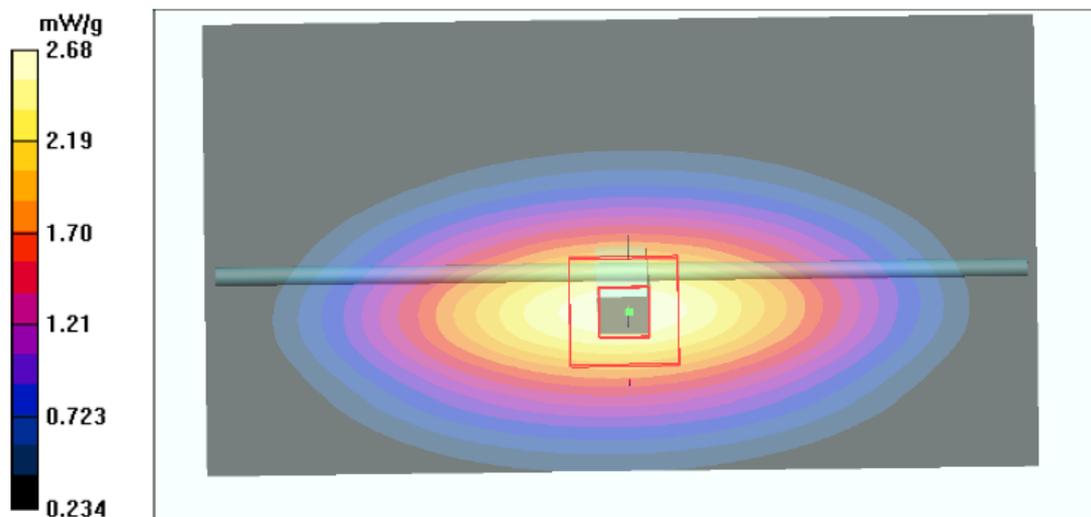
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(8.08, 8.08, 8.08); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=250mW/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.67 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.4 V/m; Power Drift = -0.006 dB
Peak SAR (extrapolated) = 3.71 W/kg
SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.62 mW/g
Maximum value of SAR (measured) = 2.68 mW/g



Plot 2

Date/Time: 12.01.2017 10:32:42

Test Laboratory: Verkotan Oy

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:249
Program Name: System Performance Check at 1800 MHz

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(7.19, 7.19, 7.19); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_1; Type: SAM Twin; Serial: TP-1128
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.5 mW/g

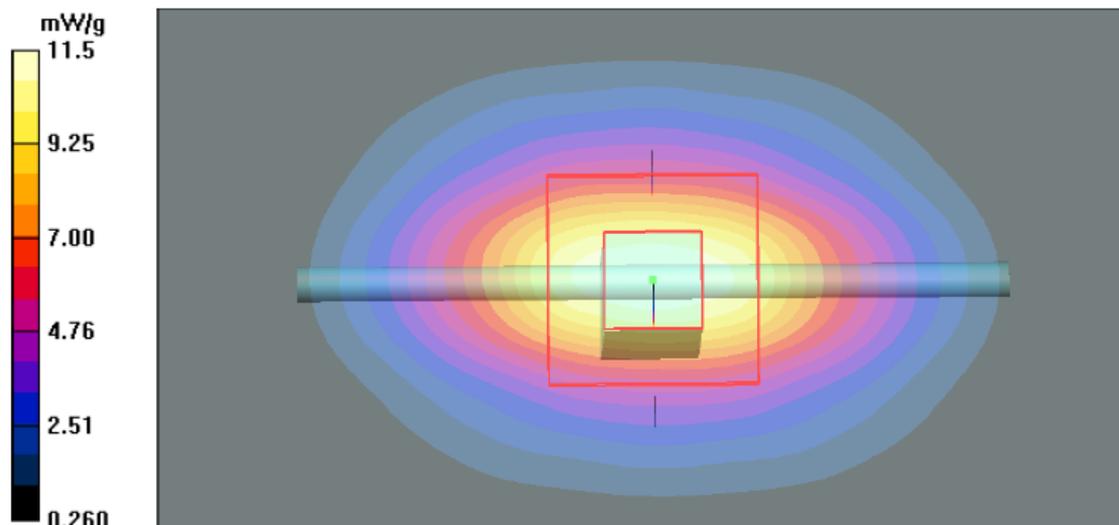
d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.3 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.37 mW/g

Maximum value of SAR (measured) = 11.5 mW/g



Plot 3

Date/Time: 11.01.2017 22:52:32

Test Laboratory: Verkotan Oy

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:511
Program Name: System Performance Check at 1900 MHz

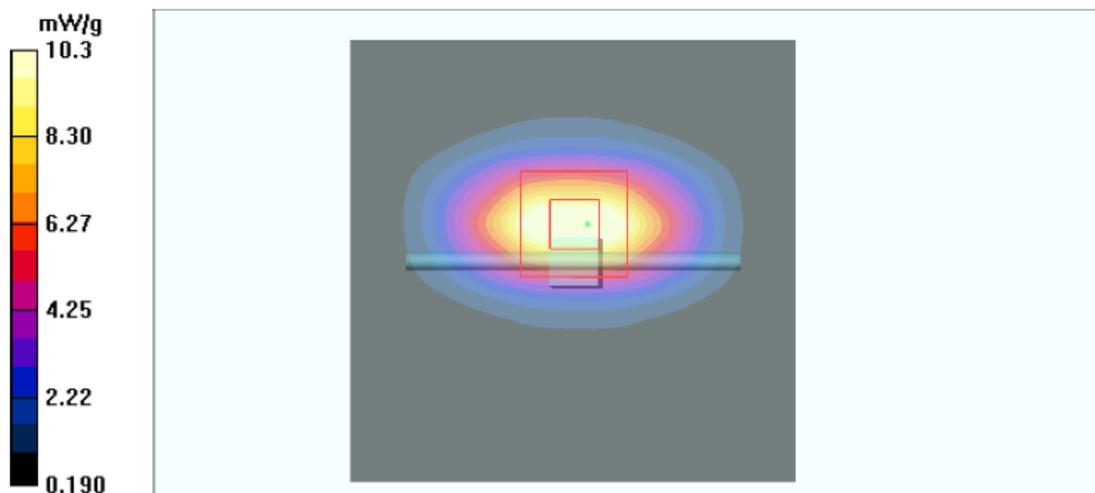
Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(6.99, 6.99, 6.99); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.0 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 71.0 V/m; Power Drift = 0.169 dB
Peak SAR (extrapolated) = 17.1 W/kg
SAR(1 g) = 9.23 mW/g; SAR(10 g) = 4.84 mW/g
Maximum value of SAR (measured) = 10.3 mW/g



Plot 4

Date/Time: 16.01.2017 17:48:07

Test Laboratory: Verkotan Oy

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:758
Program Name: System Performance Check at 2450 MHz

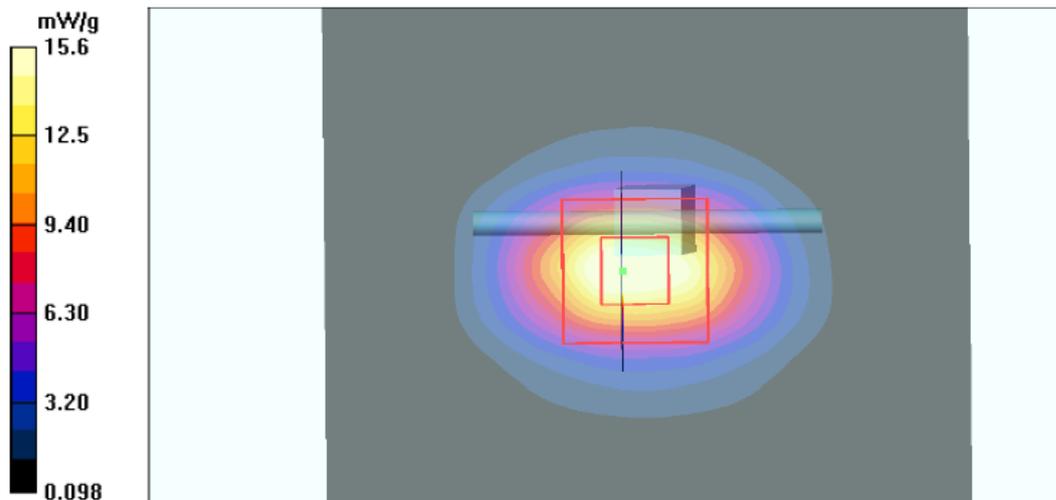
Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3892; ConvF(7.22, 7.22, 7.22); Calibrated: 11.03.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW/Area Scan (81x81x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 16.4 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 77.1 V/m; Power Drift = 0.054 dB
Peak SAR (extrapolated) = 28.6 W/kg
SAR(1 g) = 13.8 mW/g; SAR(10 g) = 6.42 mW/g
Maximum value of SAR (measured) = 15.6 mW/g



Plot 5

Date/Time: 12.01.2017 18:42:55

Test Laboratory: Verkotan Oy

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:448
Program Name: System Performance Check at 835 MHz

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.995 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$

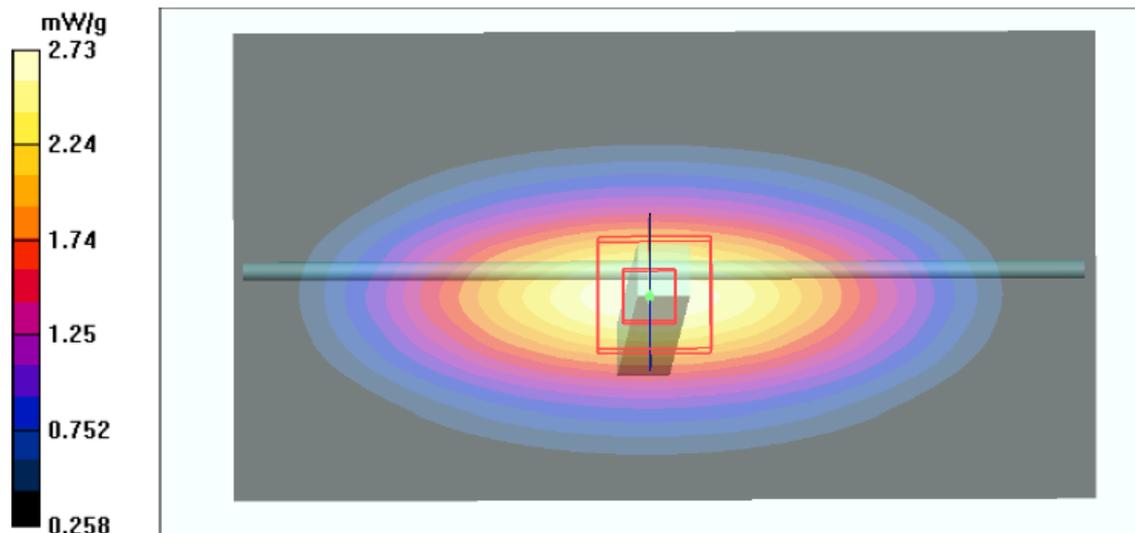
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(8.17, 8.17, 8.17); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=250mW/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.73 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.0 V/m; Power Drift = -0.045 dB
Peak SAR (extrapolated) = 3.75 W/kg
SAR(1 g) = 2.53 mW/g; SAR(10 g) = 1.66 mW/g
Maximum value of SAR (measured) = 2.73 mW/g



Plot 6

Date/Time: 13.01.2017 00:07:27

Test Laboratory: Verkotan Oy

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:249

Program Name: System Performance Check at 1800 MHz

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.49 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(6.96, 6.96, 6.96); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.1 mW/g

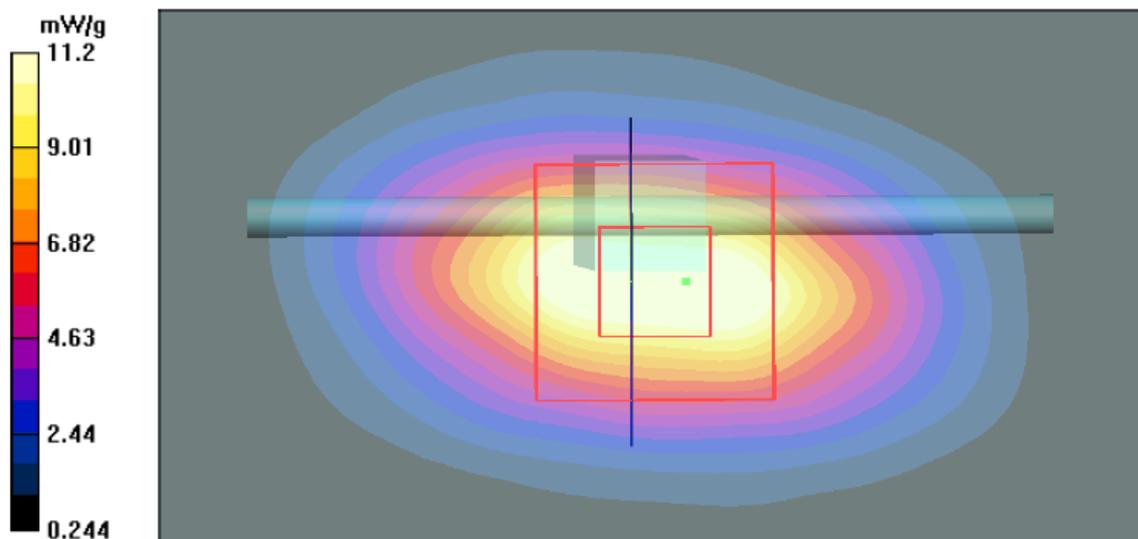
d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 78.8 V/m; Power Drift = -0.165 dB

Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 9.97 mW/g; SAR(10 g) = 5.28 mW/g

Maximum value of SAR (measured) = 11.2 mW/g



Plot 7

Date/Time: 14.01.2017 18:50:26

Test Laboratory: Verkotan Oy

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:249
Program Name: System Performance Check at 1800 MHz

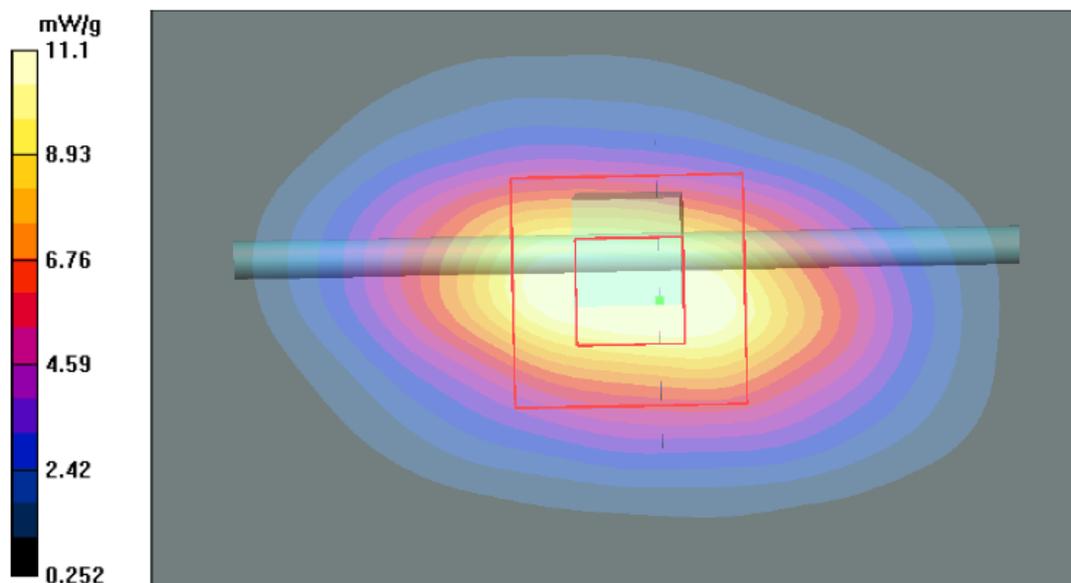
Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(6.96, 6.96, 6.96); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.6 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 82.6 V/m; Power Drift = 0.035 dB
Peak SAR (extrapolated) = 17.9 W/kg
SAR(1 g) = 9.96 mW/g; SAR(10 g) = 5.28 mW/g
Maximum value of SAR (measured) = 11.1 mW/g



Plot 8

Date/Time: 13.01.2017 00:31:31

Test Laboratory: Verkotan Oy

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:511
Program Name: System Performance Check at 1900 MHz

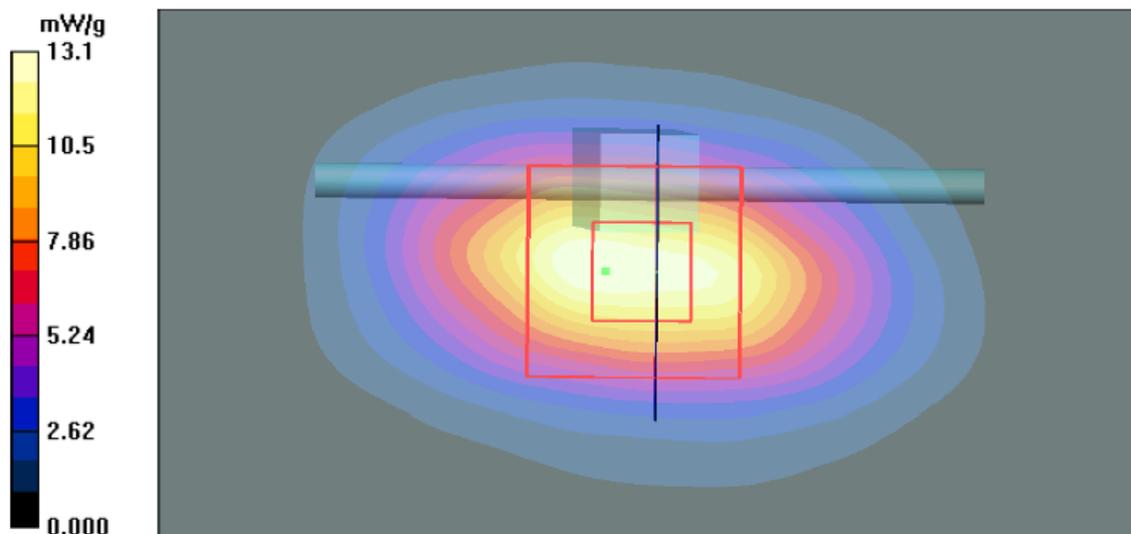
Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(6.77, 6.77, 6.77); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 13.1 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 67.1 V/m; Power Drift = 0.031 dB
Peak SAR (extrapolated) = 19.9 W/kg
SAR(1 g) = 10.8 mW/g; SAR(10 g) = 5.64 mW/g
Maximum value of SAR (measured) = 12.2 mW/g



Plot 9

Date/Time: 16.01.2017 22:28:19

Test Laboratory: Verkotan Oy

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:758
Program Name: System Performance Check at 2450 MHz

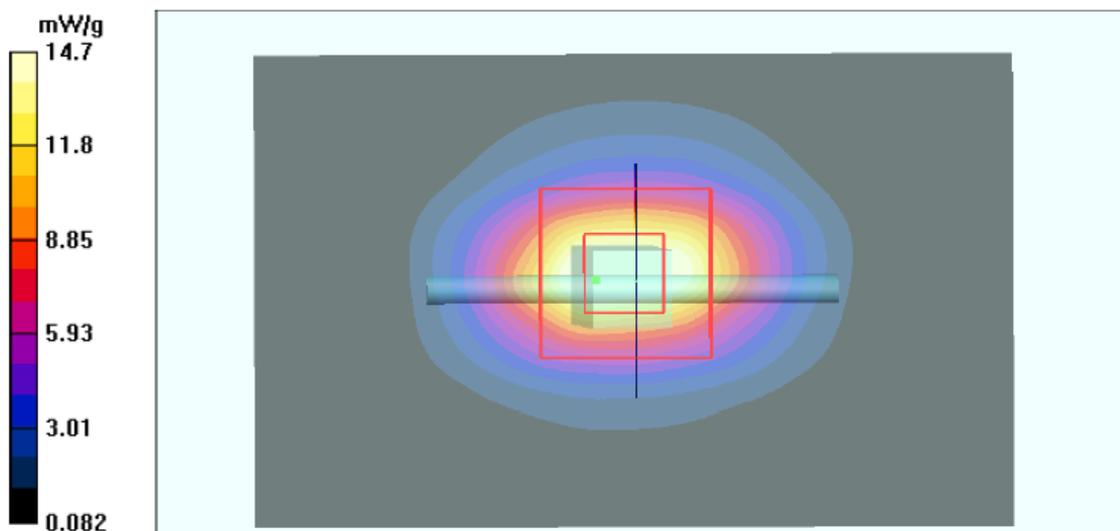
Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3892; ConvF(7.35, 7.35, 7.35); Calibrated: 11.03.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_1; Type: SAM Twin; Serial: TP-1128
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW/Area Scan (51x81x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 16.0 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 86.0 V/m; Power Drift = -0.094 dB
Peak SAR (extrapolated) = 25.9 W/kg
SAR(1 g) = 13 mW/g; SAR(10 g) = 6.09 mW/g
Maximum value of SAR (measured) = 14.7 mW/g



Plot 10

Date/Time: 23.01.2017 12:14:48

Test Laboratory: Verkotan Oy

DUT: Dipole 1640 MHz; Type: DIP1G640-433; Serial: SN 37/16 DIP 1G640-433
Program Name: System Performance Check at 1640 MHz

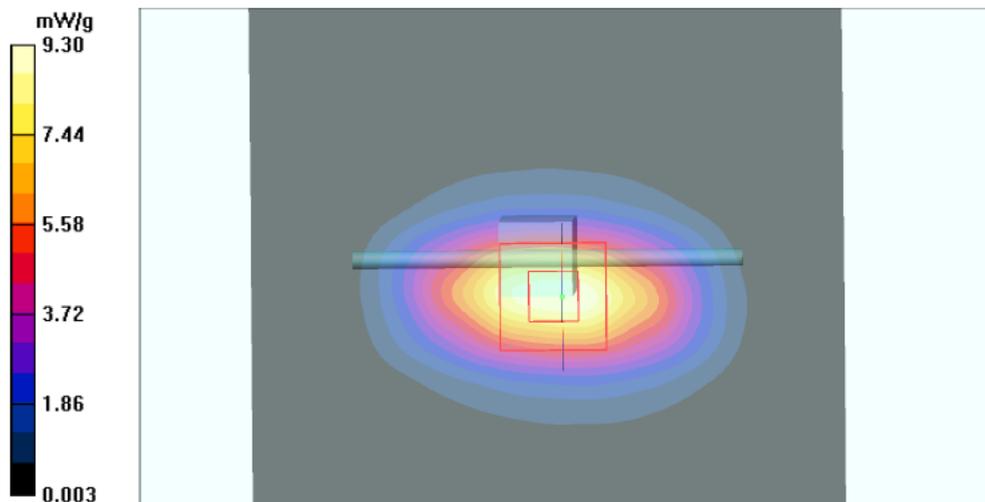
Communication System: CW; Frequency: 1640 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1640$ MHz; $\sigma = 1.26$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.56, 5.56, 5.56); Calibrated: 15.09.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 9.30 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 79.3 V/m; Power Drift = 0.030 dB
Peak SAR (extrapolated) = 13.7 W/kg
SAR(1 g) = 8.53 mW/g; SAR(10 g) = 4.77 mW/g
Maximum value of SAR (measured) = 9.61 mW/g



Plot 11

Date/Time: 24.01.2017 13:36:28

Test Laboratory: Verkotan Oy

DUT: Dipole 1640 MHz; Type: DIP1G640-433; Serial: SN 37/16 DIP 1G640-433
Program Name: System Performance Check at 1640 MHz

Communication System: CW; Frequency: 1640 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1640$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.19, 5.19, 5.19); Calibrated: 15.09.2016

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn371; Calibrated: 22.04.2016

- Phantom: SAM_1; Type: SAM Twin; Serial: TP-1128

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 9.62 mW/g

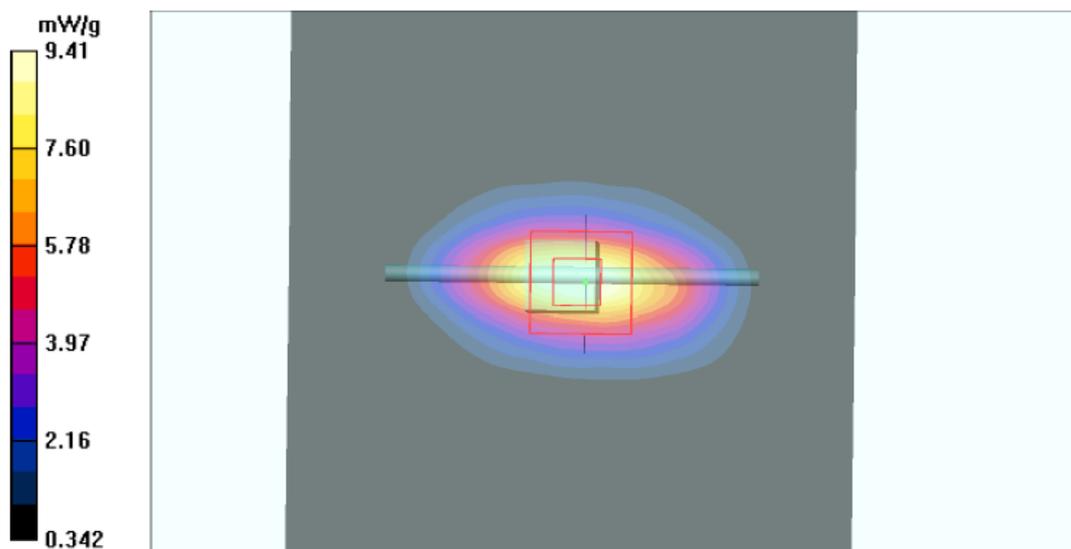
d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.1 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 12.6 W/kg

SAR(1 g) = 8.3 mW/g; SAR(10 g) = 4.67 mW/g

Maximum value of SAR (measured) = 9.41 mW/g



Plot 12

Date/Time: 24.01.2017 17:47:47

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:249
Program Name: System Performance Check at 1800MHz

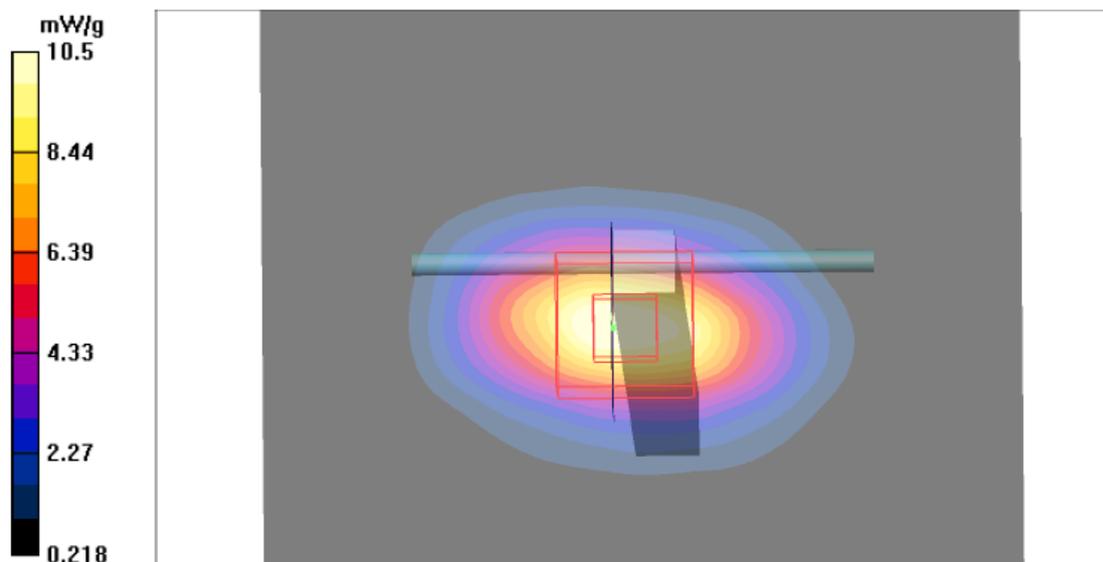
Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3892; ConvF(8.32, 8.32, 8.32); Calibrated: 11.03.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 10.8 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 58.9 V/m; Power Drift = 0.095 dB
Peak SAR (extrapolated) = 17.5 W/kg
SAR(1 g) = 9.45 mW/g; SAR(10 g) = 4.96 mW/g
Maximum value of SAR (measured) = 10.5 mW/g



Plot 13

Date/Time: 30.01.2017 15:10:46

Test Laboratory: Verkotan Oy

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:249
Program Name: System Performance Check at 1800MHz

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3892; ConvF(7.91, 7.91, 7.91); Calibrated: 11.03.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_1; Type: SAM Twin; Serial: TP-1128
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=10mm, Pin=250mW/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.0 mW/g

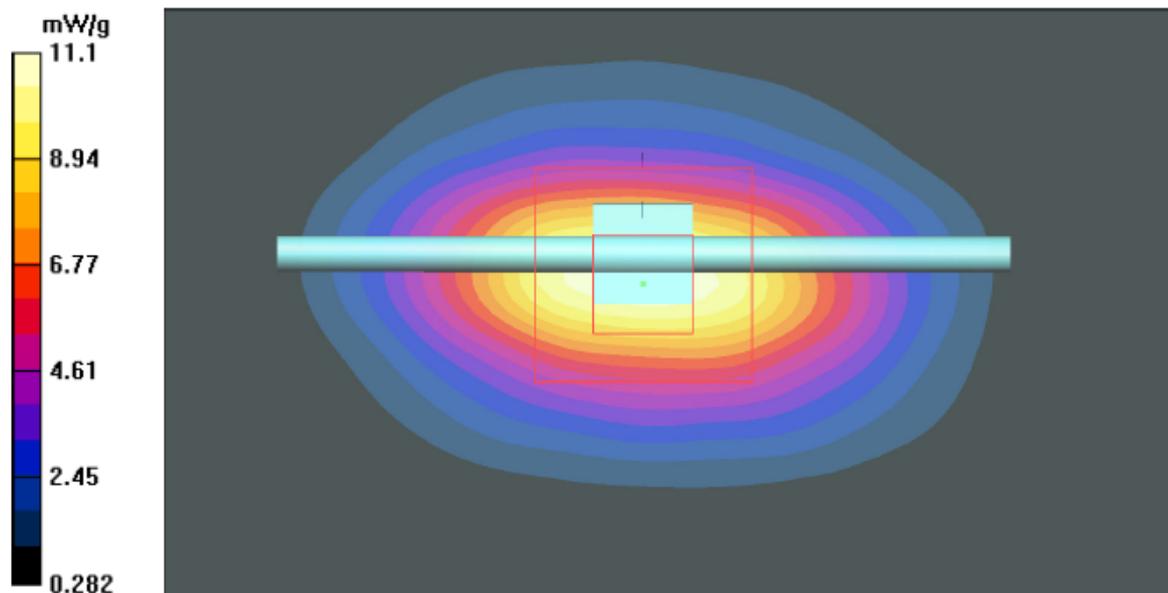
d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 84.3 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 17.4 W/kg

SAR(1 g) = 9.78 mW/g; SAR(10 g) = 5.2 mW/g

Maximum value of SAR (measured) = 11.1 mW/g



APPENDIX C: MEASUREMENT SCAN

Plot 14

Date/Time: 11.01.2017 19:30:36

Test Laboratory: Verkotan Oy

DUT: Mexasat Rugged; Type: Phone; Serial: 356244060507997
Program Name: Head Exposure Condition

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.946 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(8.08, 8.08, 8.08); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GSM850Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.41 V/m; Power Drift = -0.049 dB

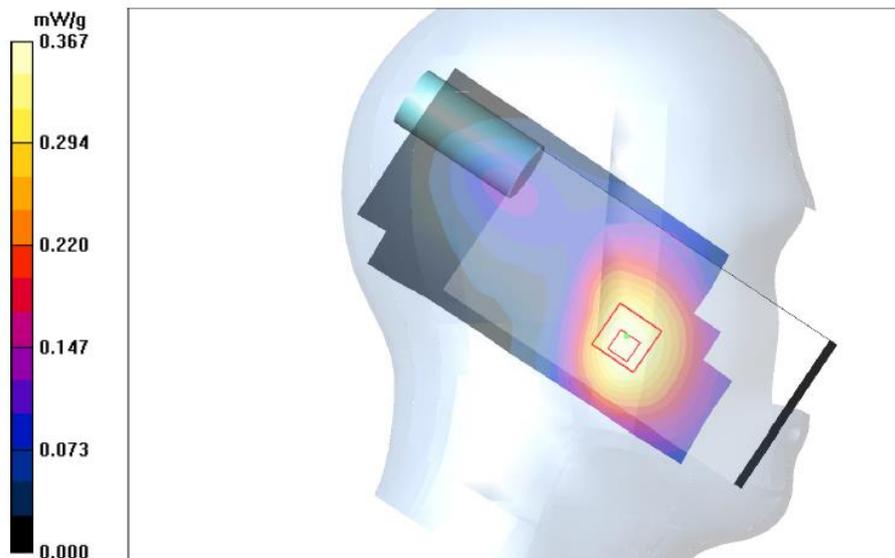
Peak SAR (extrapolated) = 0.444 W/kg

SAR(1 g) = 0.346 mW/g; SAR(10 g) = 0.261 mW/g

Maximum value of SAR (measured) = 0.365 mW/g

GSM850Cheek/Area Scan (61x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.367 mW/g



Plot 15

Date/Time: 12.01.2017 00:24:30

Test Laboratory: Verkotan Oy

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: Head Exposure Condition

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³

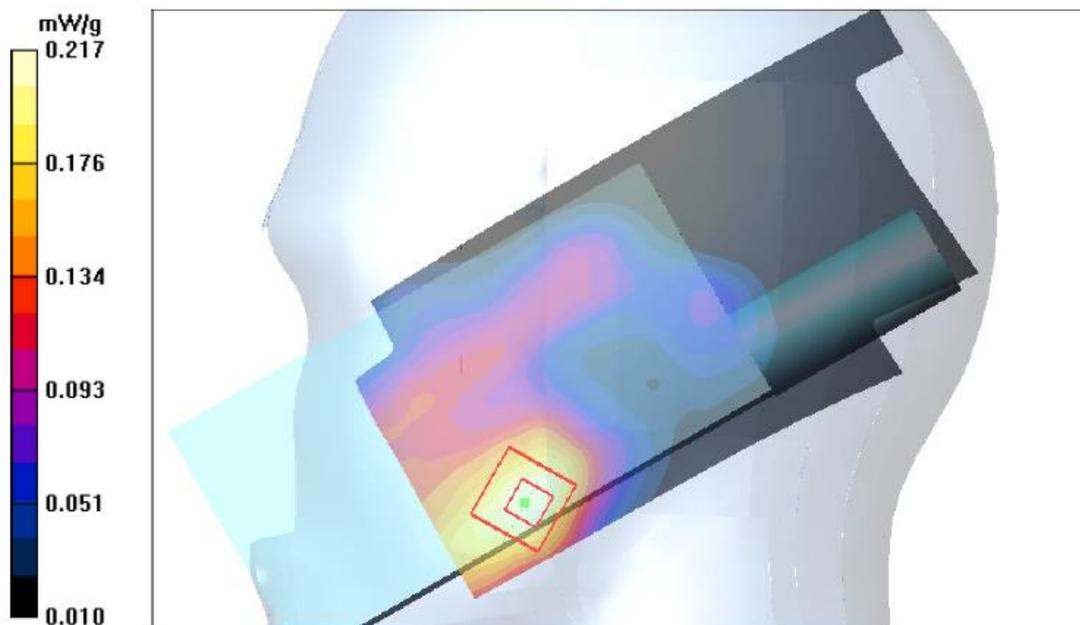
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(6.99, 6.99, 6.99); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 21.01.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GSM1900Cheek/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.223 mW/g

GSM1900Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 6.55 V/m; Power Drift = 0.191 dB
Peak SAR (extrapolated) = 0.315 W/kg
SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.127 mW/g
Maximum value of SAR (measured) = 0.217 mW/g



Plot 16

Date/Time: 11.01.2017 23:21:22

Test Laboratory: Verkotan Oy

DUT: Mexasat Rugged; Type: Phone; Serial: 356244060507997
Program Name: Head Exposure Condition

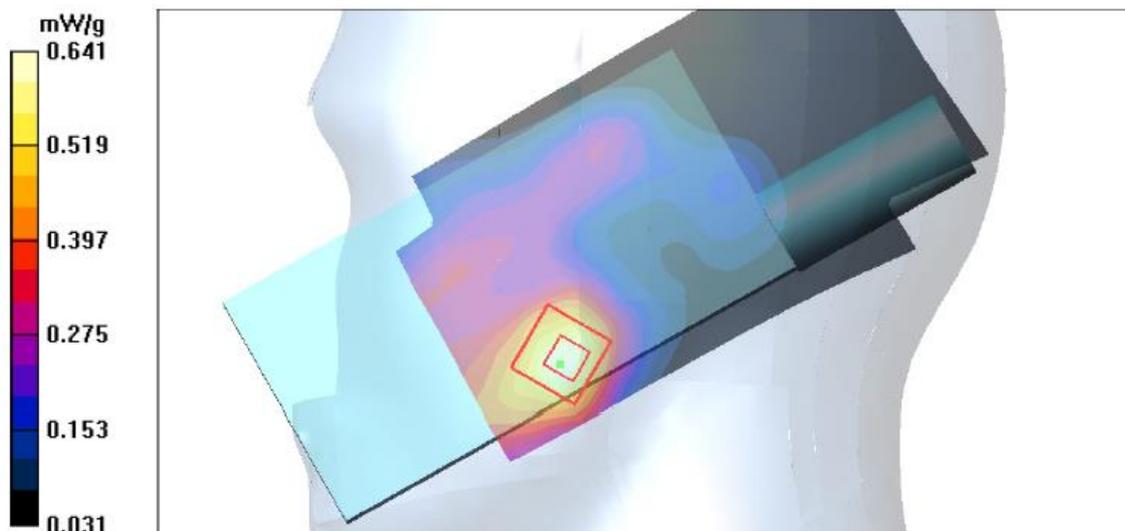
Communication System: WCDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(6.99, 6.99, 6.99); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 21.01.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

WCDMA II Cheek/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.647 mW/g

WCDMA II Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.7 V/m; Power Drift = -0.028 dB
Peak SAR (extrapolated) = 0.918 W/kg
SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.364 mW/g
Maximum value of SAR (measured) = 0.641 mW/g



Plot 17

Date/Time: 12.01.2017 12:05:38

Test Laboratory: Verkotan Oy

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: Head Exposure Condition

Communication System: WCDMA 1700; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1733$ MHz; $\sigma = 1.33$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(7.19, 7.19, 7.19); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_1; Type: SAM Twin; Serial: TP-1128
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

WCDMA IV Cheek/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.451 mW/g

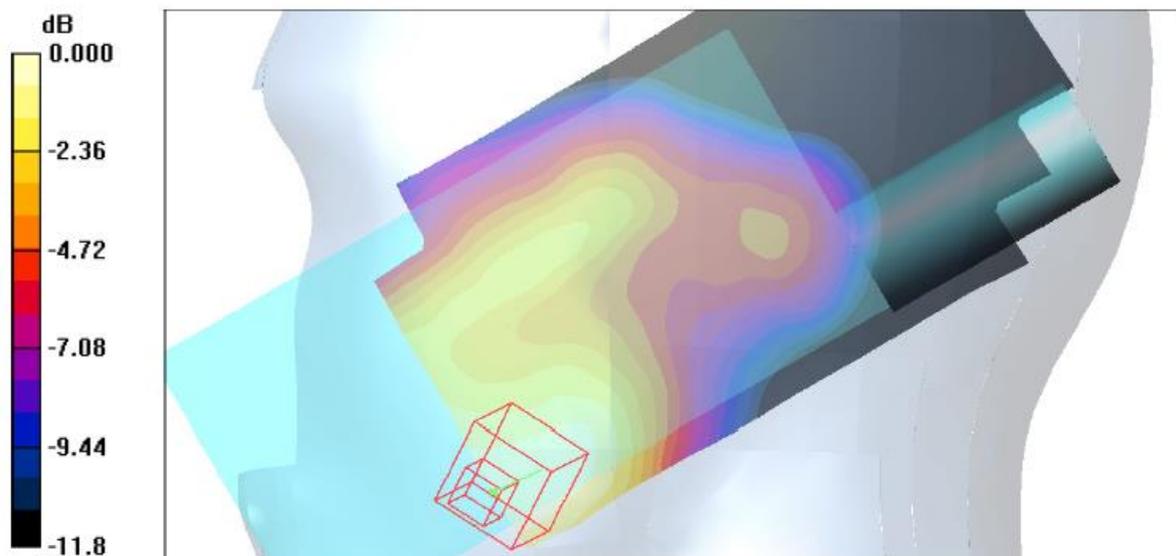
WCDMA IV Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.624 W/kg

SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.273 mW/g

Maximum value of SAR (measured) = 0.448 mW/g



0 dB = 0.448mW/g

Plot 18

Date/Time: 11.01.2017 18:27:17

Test Laboratory: Verkotan Oy

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: Head Exposure Condition

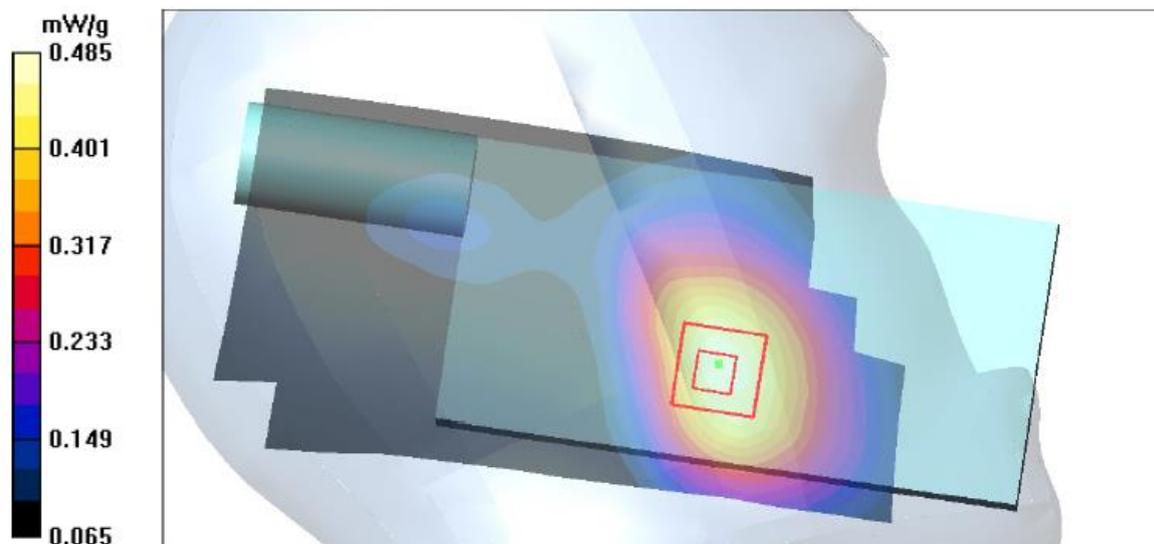
Communication System: WCDMA 850; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 837$ MHz; $\sigma = 0.946$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(8.08, 8.08, 8.08); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 21.01.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

WCDMA V Cheek/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.478 mW/g

WCDMA V Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.4 V/m; Power Drift = -0.454 dB
Peak SAR (extrapolated) = 0.561 W/kg
SAR(1 g) = 0.454 mW/g; SAR(10 g) = 0.340 mW/g
Maximum value of SAR (measured) = 0.485 mW/g



Plot 19

Date/Time: 24.01.2017 18:43:37

Test Laboratory: Verkotan Oy

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: Head Exposure Condition

Communication System: LTE 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.3$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3892; ConvF(8.32, 8.32, 8.32); Calibrated: 11.03.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

LTE 4 1RB Cheek/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.435 mW/g

LTE 4 1RB Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

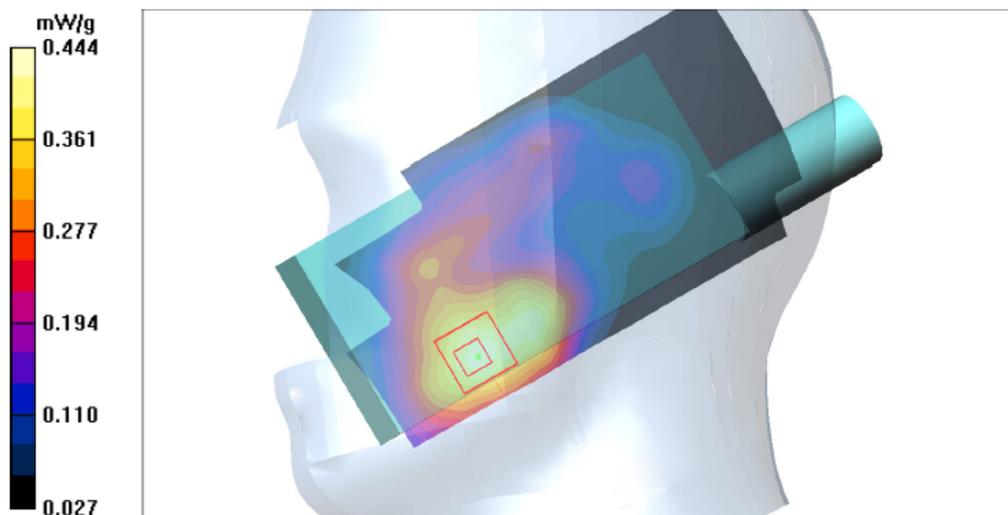
Reference Value = 10.9 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 0.630 W/kg

SAR(1 g) = 0.415 mW/g; SAR(10 g) = 0.266 mW/g

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

Maximum value of SAR (measured) = 0.444 mW/g



Plot 20

Date/Time: 17.01.2017 10:35:08

Test Laboratory: Verkotan Oy

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: Head Exposure Condition

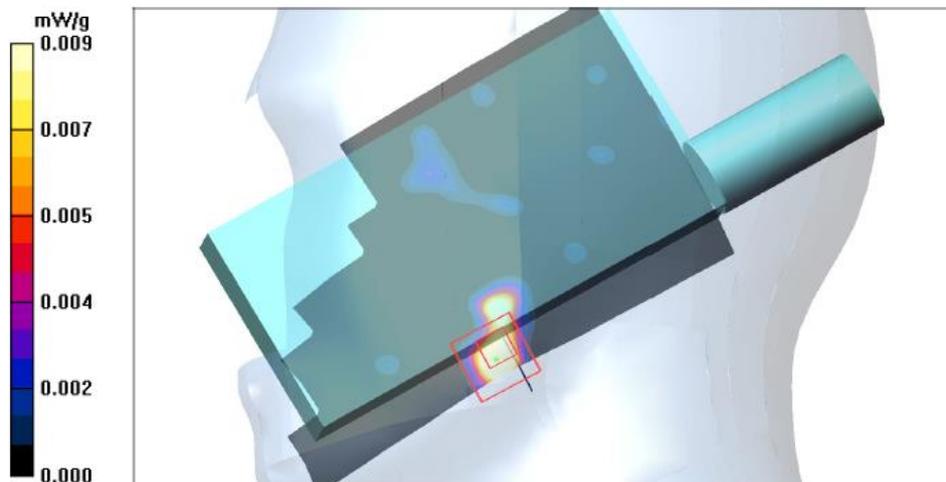
Communication System: Bluetooth; Frequency: 2440 MHz; Duty Cycle: 1:1.3
Medium parameters used: $f = 2440$ MHz; $\sigma = 1.82$ mho/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3892; ConvF(7.22, 7.22, 7.22); Calibrated: 11.03.2016
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Left Cheek/Area Scan (81x131x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.020 mW/g

Left Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.755 V/m; Power Drift = 0.028 dB
Peak SAR (extrapolated) = 0.018 W/kg
SAR(1 g) = 0.0053 mW/g; SAR(10 g) = 0.00197 mW/g
Maximum value of SAR (measured) = 0.009 mW/g



Plot 21

Date/Time: 23.01.2017 19:52:37

Test Laboratory: Verkotan Oy

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: Head Exposure Condition

Communication System: Satellite; Frequency: 1660.5 MHz; Duty Cycle: 1:6.64

Medium parameters used (interpolated): $f = 1660.5$ MHz; $\sigma = 1.28$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.56, 5.56, 5.56); Calibrated: 15.09.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Right Tilted 5/Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.74 mW/g

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

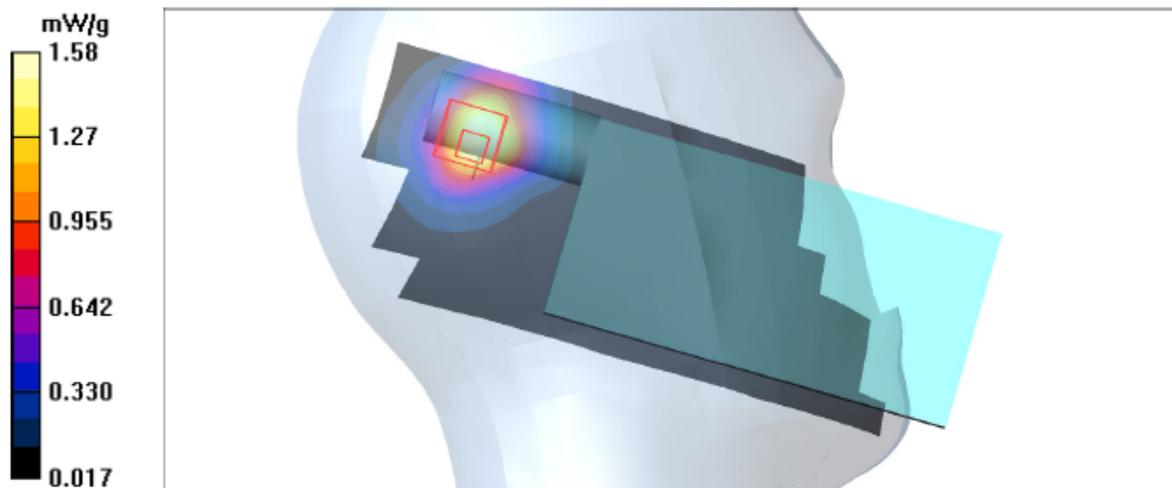
Reference Value = 4.20 V/m; Power Drift = 0.170 dB

Peak SAR (extrapolated) = 2.68 W/kg

SAR(1 g) = 1.41 mW/g; SAR(10 g) = 0.788 mW/g

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

Maximum value of SAR (measured) = 1.58 mW/g



Date/Time: 24.01.2017 09:28:38

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: In-Front of Face

Plot 22

Communication System: Satellite; Frequency: 1643.5 MHz; Duty Cycle: 1:6.64
Medium parameters used (interpolated): $f = 1643.5$ MHz; $\sigma = 1.26$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.56, 5.56, 5.56); Calibrated: 15.09.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Front Face 25mm/Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.111 mW/g

Front Face 25mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = -0.033 dB
Peak SAR (extrapolated) = 0.149 W/kg
SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.069 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.112 mW/g



Plot 23

Date/Time: 13.01.2017 13:29:51

Test Laboratory: Verkotan Oy

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: GPRS 850 body

Communication System: GPRS 850; Frequency: 824.2 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.987$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(8.17, 8.17, 8.17); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_1; Type: SAM Twin; Serial: TP-1128
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GPRS 2 slots low back 2 2 2/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.42 mW/g

GPRS 2 slots low back 2 2 2/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid:

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

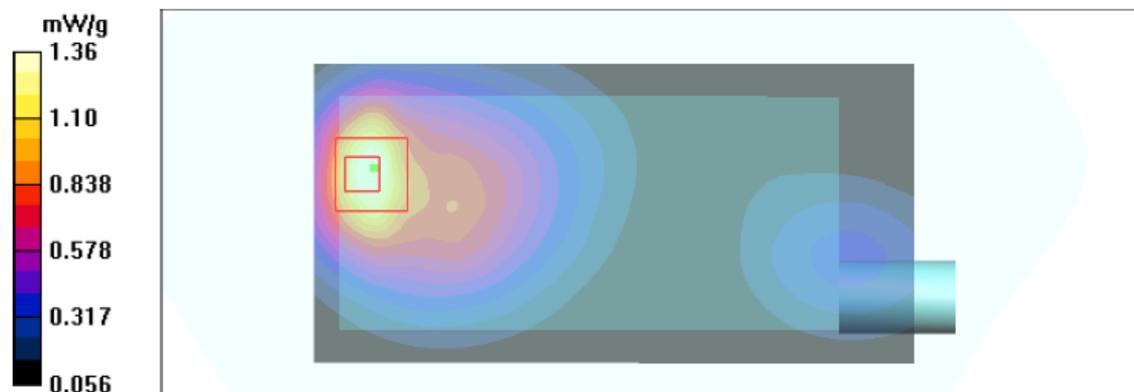
Reference Value = 16.4 V/m; Power Drift = 0.090 dB

Peak SAR (extrapolated) = 2.23 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.785 mW/g

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

Maximum value of SAR (measured) = 1.36 mW/g



Plot 24
Date/Time: 13.01.2017 11:39:30

Test Laboratory: Verkotan Oy

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: GPRS 1900 body

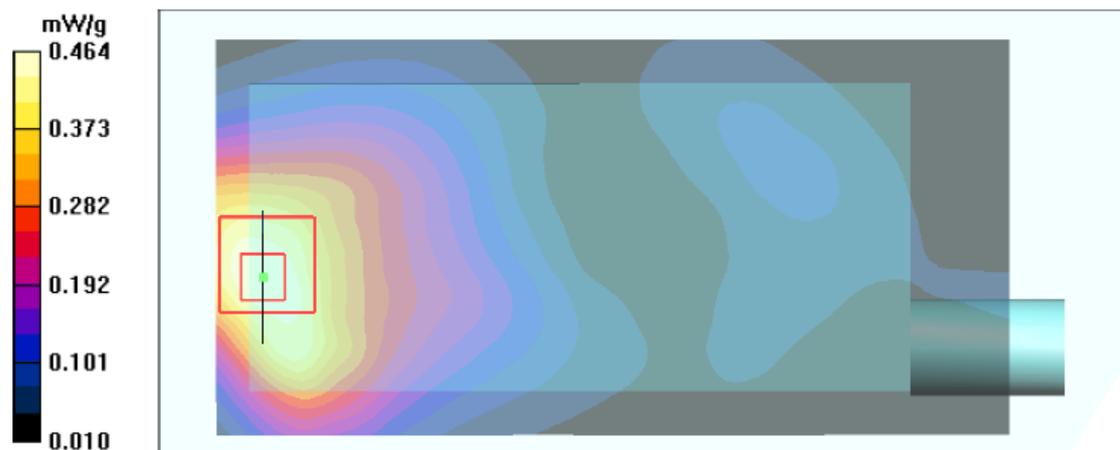
Communication System: 2-slot GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:2.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(6.77, 6.77, 6.77); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

GPRS 2 slots mid back/Area Scan (61x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.466 mW/g

GPRS 2 slots mid back/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.58 V/m; Power Drift = -0.136 dB
Peak SAR (extrapolated) = 0.667 W/kg
SAR(1 g) = 0.432 mW/g; SAR(10 g) = 0.275 mW/g
Maximum value of SAR (measured) = 0.464 mW/g



Plot 25

Date/Time: 13.01.2017 19:37:20

Test Laboratory: Verkotan Oy

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: WCDMA II body 10 mm separarion

Communication System: WCDMA 1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1908$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

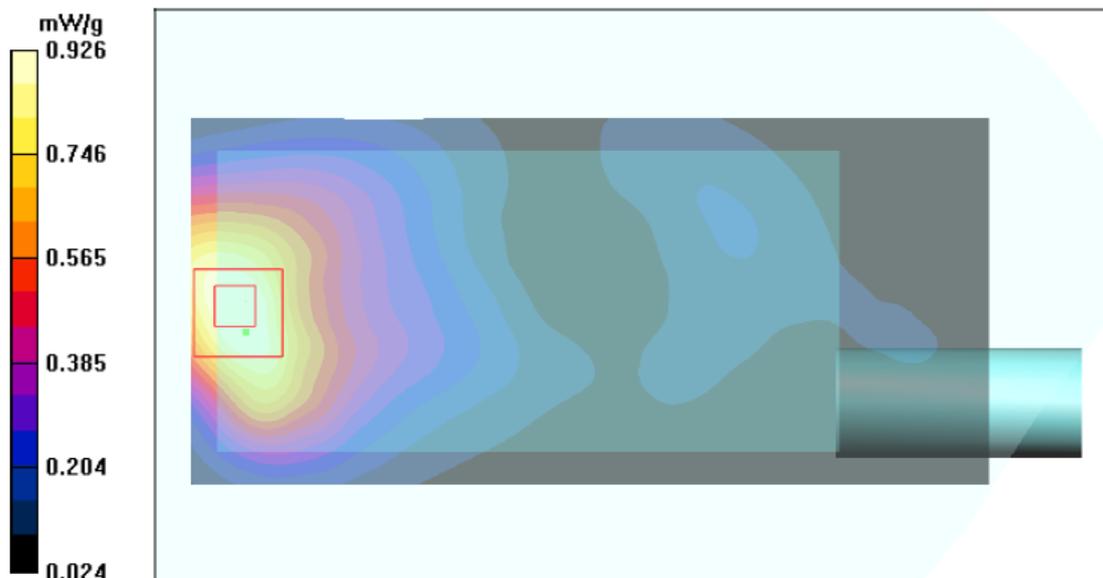
DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(6.77, 6.77, 6.77); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

WCDMA II high Back 2 2 3/Area Scan (61x131x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.928 mW/g

WCDMA II high Back 2 2 3/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid:
dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 7.85 V/m; Power Drift = -0.051 dB
Peak SAR (extrapolated) = 1.36 W/kg
SAR(1 g) = 0.874 mW/g; SAR(10 g) = 0.546 mW/g

Maximum value of SAR (measured) = 0.926 mW/g



Plot 26

Date/Time: 13.01.2017 21:23:55

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: WCDMA IV body 10 mm separation

Communication System: WCDMA 1700; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(6.96, 6.96, 6.96); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

WCDMA IV Back 2/Area Scan (61x141x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.01 mW/g

WCDMA IV Back 2/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

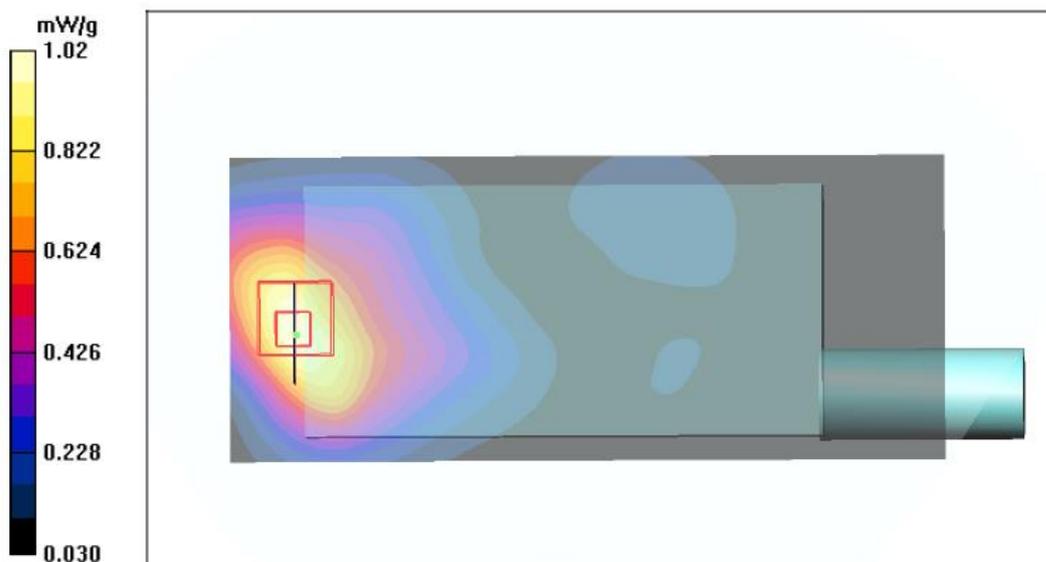
Reference Value = 7.30 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.937 mW/g; SAR(10 g) = 0.596 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

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



Plot 27

Date/Time: 13.01.2017 16:33:26

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: WCDMA V body 10 mm separarion

Communication System: WCDMA 850; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.988$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

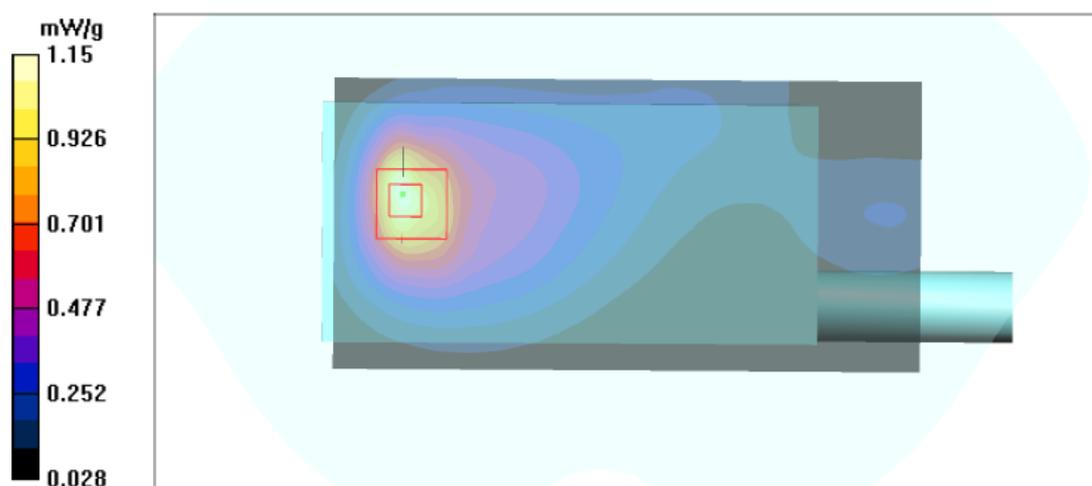
- Probe: EX3DV4 - SN3570; ConvF(8.17, 8.17, 8.17); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_1; Type: SAM Twin; Serial: TP-1128
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

WCDMA V Back low 2/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)
Maximum value of SAR (interpolated) = 1.12 mW/g

WCDMA V Back low 2/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.0 V/m; Power Drift = 0.041 dB
Peak SAR (extrapolated) = 1.77 W/kg
SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.593 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)
Maximum value of SAR (measured) = 1.15 mW/g



Plot 28

Date/Time: 13.01.2017 23:03:10

Test Laboratory: Verkotan Oy

DUT: Mxsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: LTE 4 body 10 mm separation

Communication System: LTE 4; Frequency: 1720 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1720$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

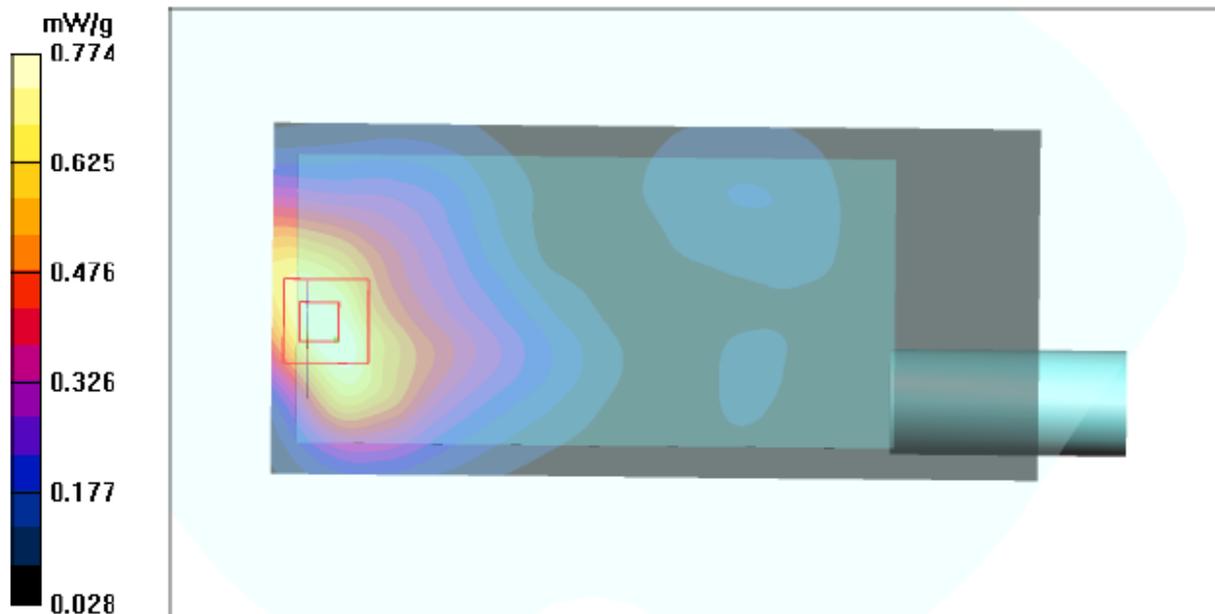
DASY4 Configuration:

- Probe: EX3DV4 - SN3570; ConvF(6.96, 6.96, 6.96); Calibrated: 15.01.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_2; Type: SAM Twin; Serial: TP-1142
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

LTE4 RbSize 50 offset 0 Back 2/Area Scan (61x131x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.785 mW/g

LTE4 RbSize 50 offset 0 Back 2/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 7.32 V/m; Power Drift = 0.055 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.458 mW/g

Maximum value of SAR (measured) = 0.774 mW/g



Plot 29

Date/Time: 17.01.2017 10:07:03

Test Laboratory: Verkotan Oy

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: Body-Worn Condition

Communication System: Bluetooth; Frequency: 2440 MHz; Duty Cycle: 1:1.3

Medium parameters used: $f = 2440$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

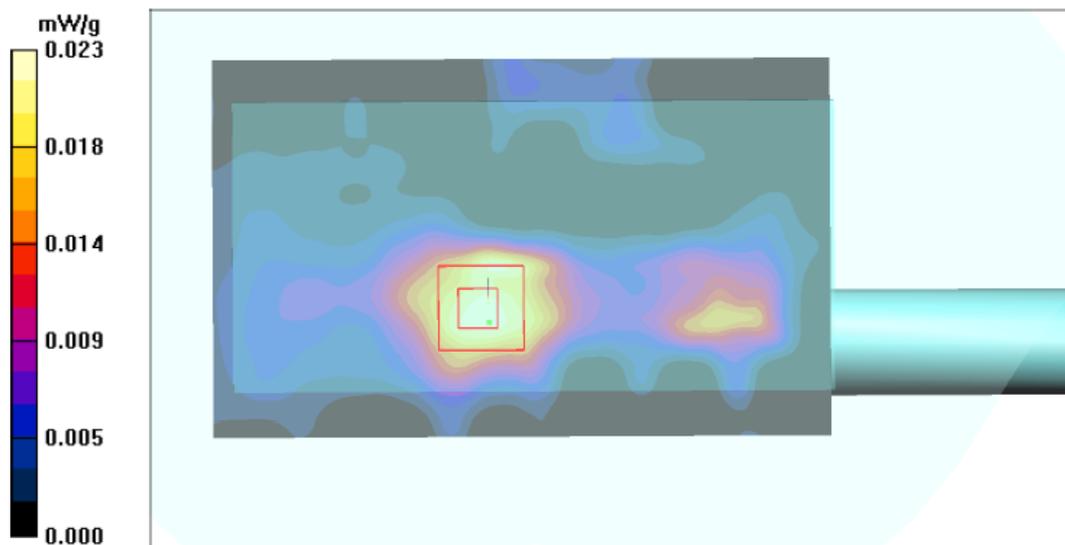
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3892; ConvF(7.35, 7.35, 7.35); Calibrated: 11.03.2016
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_1; Type: SAM Twin; Serial: TP-1128
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Back 10mm 2/Area Scan (81x131x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.022 mW/g

Back 10mm 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.97 V/m; Power Drift = 0.172 dB
Peak SAR (extrapolated) = 0.052 W/kg
SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00798 mW/g
Maximum value of SAR (measured) = 0.023 mW/g



Plot 30

Date/Time: 24.01.2017 14:35:47

Test Laboratory: Verkotan Oy

DUT: Mexsat Rugged; Type: Phone; Serial: 356244060507997
Program Name: Body-Worn Condition

Communication System: Satellite; Frequency: 1643.5 MHz; Duty Cycle: 1:6.64

Medium parameters used (interpolated): $f = 1643.5$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1381; ConvF(5.19, 5.19, 5.19); Calibrated: 15.09.2016
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn371; Calibrated: 22.04.2016
- Phantom: SAM_1; Type: SAM Twin; Serial: TP-1128
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Back 10mm/Area Scan (61x151x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.361 mW/g

Back 10mm/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.57 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.505 W/kg

SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.214 mW/g

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

Maximum value of SAR (measured) = 0.382 mW/g

