

APPENDIX A: SYSTEM CHECK SCANS

Plot1:

Date/Time: 2015-06-18 10:53:47

Test Laboratory: TCC Microsoft

Type: D835V2; Serial: 4d005

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Head 835 SAR1; Medium Notes: Medium Temperature: t=20.5

Medium parameters used: f = 835 MHz; $\sigma = 0.907$ S/m; $\epsilon_r = 40.911$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3839
- ConvF(8.88, 8.88, 8.88); Calibrated: 2014-09-15;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2014-09-09
- Phantom: SAR1 - SAM1; Type: TP - 01097; Serial: Not Specified
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

d=15mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 53.44 V/m

Fast SAR: SAR(1 g) = 2.42 W/kg

Fast SAR(10 g) = 1.63 W/kg

Maximum value of SAR (interpolated) = 2.79 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.44 V/m

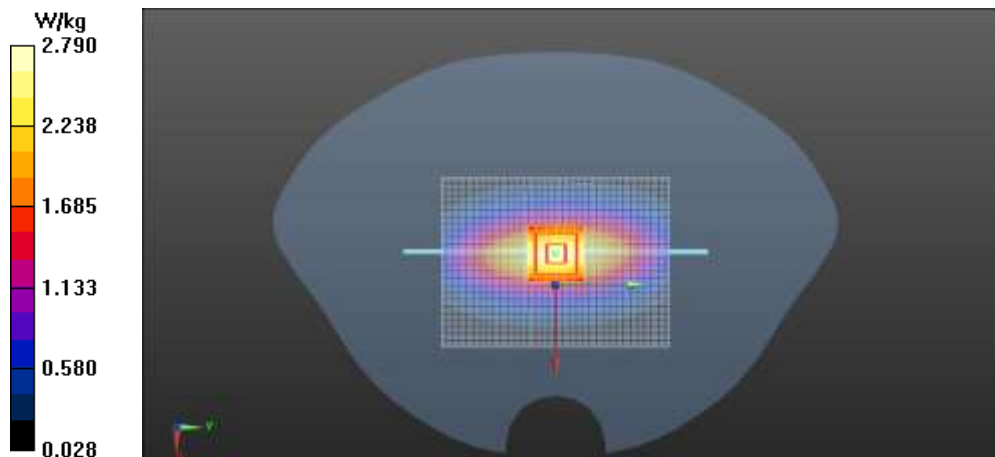
Peak SAR (extrapolated) = 3.57 W/kg

SAR(1 g) = 2.39 W/kg

SAR(10 g) = 1.57 W/kg

Power Drift = -0.00 dB

Maximum value of SAR (measured) = 2.80 W/kg



Plot2:

Date/Time: 2015-06-18 10:23:59

Test Laboratory: TCC Microsoft
Type: D1900V2; Serial: 509

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: Head 1900 SAR4; Medium Notes: Medium Temperature: $t=20.5\text{ C}$
Medium parameters used: $f = 1900\text{ MHz}$; $\sigma = 1.374\text{ S/m}$; $\epsilon_r = 38.35$; $\rho = 1000\text{ kg/m}^3$
Phantom section: Flat Section

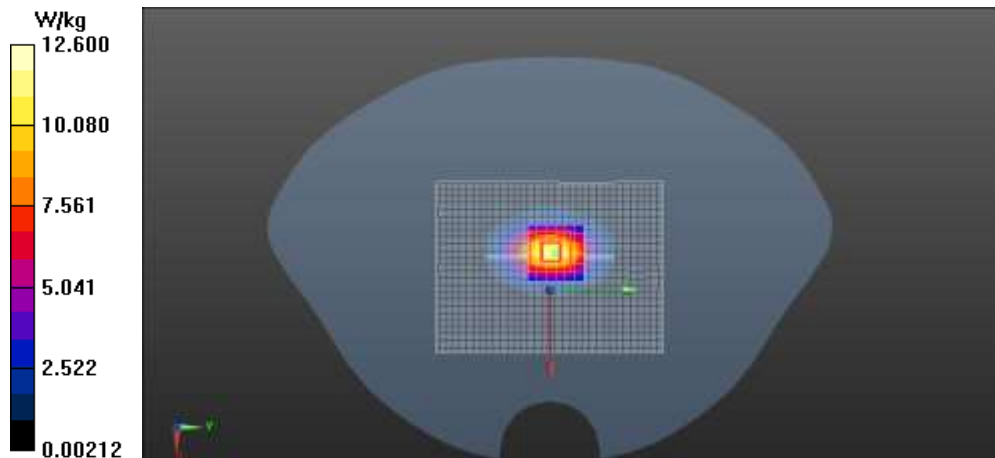
DASY Configuration:
- Probe: EX3DV4 - SN3574
- ConvF(7.83, 7.83, 7.83); Calibrated: 2014-09-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2014-09-18
- Phantom: SAR4 - SAM1; Type: QD000 P40 CA; Serial: TP - 1274
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

d=10mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

Reference Value = 86.04 V/m
Fast SAR: SAR(1 g) = 9.66 W/kg
Fast SAR(10 g) = 5.08 W/kg
Maximum value of SAR (interpolated) = 12.6 W/kg

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

Reference Value = 86.04 V/m
Peak SAR (extrapolated) = 17.5 W/kg
SAR(1 g) = 9.54 W/kg
SAR(10 g) = 4.98 W/kg
Power Drift = -0.03 dB
Maximum value of SAR (measured) = 12.0 W/kg



Plot3:

Date/Time: 2015-06-18 11:45:09

Test Laboratory: TCC Microsoft

Type: D835V2; Serial: 4d005

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Body 835 SAR1; Medium Notes: Medium Temperature: t=20.5

Medium parameters used: f = 835 MHz; $\sigma = 0.958$ S/m; $\epsilon_r = 53.56$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3839
- ConvF(8.84, 8.84, 8.84); Calibrated: 2014-09-15;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn860; Calibrated: 2014-09-09
- Phantom: SAR1 - TFP; Type: QD 000 P51 CA; Serial: 1125/1
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

d=15mm, Pin=250mW/Area Scan (81x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 55.07 V/m

Fast SAR: SAR(1 g) = 2.52 W/kg

Fast SAR(10 g) = 1.69 W/kg

Maximum value of SAR (interpolated) = 2.90 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.07 V/m

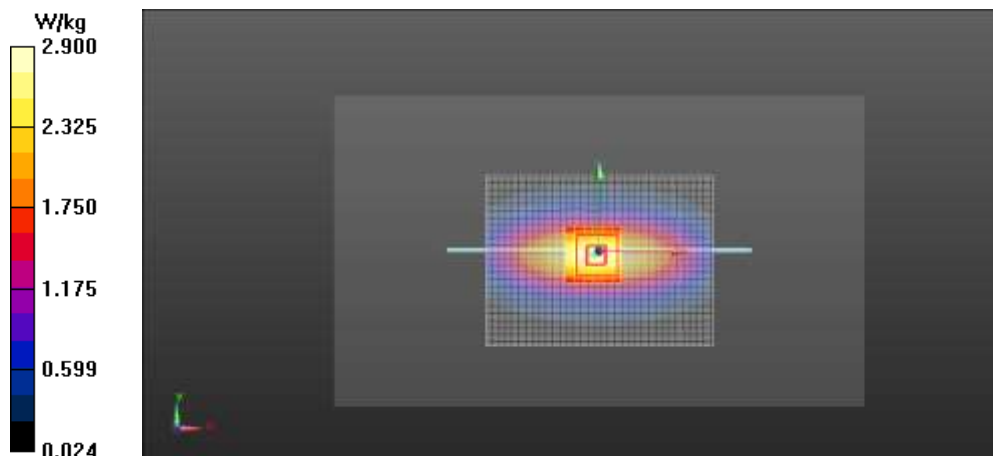
Peak SAR (extrapolated) = 3.65 W/kg

SAR(1 g) = 2.49 W/kg

SAR(10 g) = 1.65 W/kg

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 2.89 W/kg



Plot4:

Date/Time: 2015-06-03 15:15:40

Test Laboratory: TCC Microsoft
Type: D1900V2; Serial: 509

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium: Body 1900 SAR4; Medium Notes: Medium Temperature: t=21.0 C
 Medium parameters used: f = 1900 MHz; $\sigma = 1.492$ S/m; $\epsilon_r = 52.646$; $\rho = 1000$ kg/m³
 Phantom section: Center Section

- DASY Configuration:
- Probe: EX3DV4 - SN3574
 - ConvF(7.41, 7.41, 7.41); Calibrated: 2014-09-24;
 - Sensor-Surface: 3mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn480; Calibrated: 2014-09-18
 - Phantom: SAR4 - TFP; Type: QD000 P51 CA; Serial: S/N 1148/1
 - Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

d=10mm, Pin=250mW/Area Scan (81x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 87.78 V/m
 Fast SAR: SAR(1 g) = 9.25 W/kg
 Fast SAR(10 g) = 4.79 W/kg
 Maximum value of SAR (interpolated) = 12.2 W/kg

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

Reference Value = 87.78 V/m
 Peak SAR (extrapolated) = 16.6 W/kg
SAR(1 g) = 9.18 W/kg
SAR(10 g) = 4.83 W/kg
Power Drift = 0.00 dB
 Maximum value of SAR (measured) = 11.6 W/kg

