Appendix B. SAR Plots of SAR Measurement

The plots for SAR measurement are shown as follows.

P01 GSM850_Right Cheek_Ch251

DUT: 120628C20

Communication System: GSM; Frequency: 848.8 MHz;Duty Cycle: 1:8.30042
Medium: H835_0629 Medium parameters used: f = 849 MHz; σ = 0.91 mho/m; ε_r = 42.661; ρ = 1000 kg/m^3
Ambient Temperature：22.4 ℃；Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.87, 8.87, 8.87); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: TP:1653
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch251/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
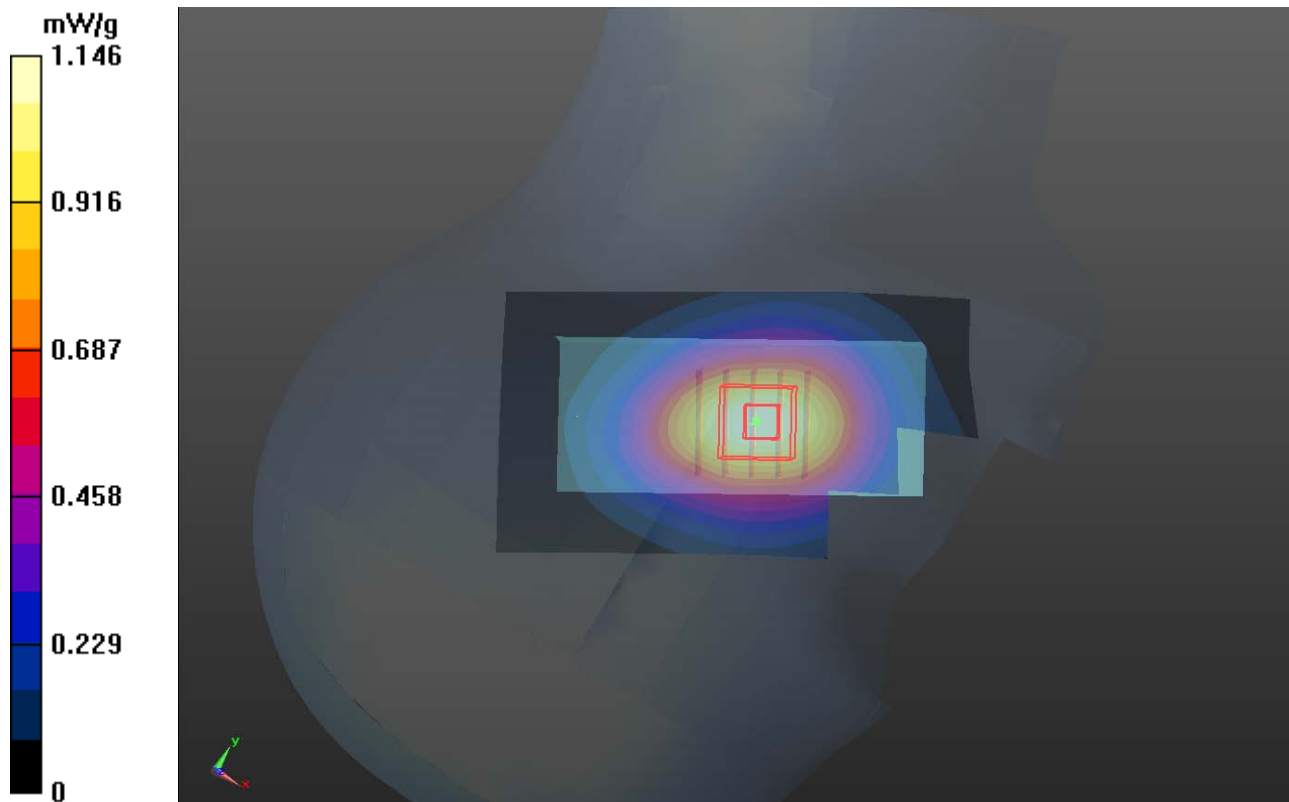Maximum value of SAR (interpolated) = 1.15 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.291 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.242 mW/g
SAR(1 g) = 0.959 mW/g; SAR(10 g) = 0.682 mW/g
Maximum value of SAR (measured) = 1.11 mW/g

P02 GSM850_Right Tilted_Ch251

DUT: 120628C20

Communication System: GSM; Frequency: 848.8 MHz;Duty Cycle: 1:8.30042
Medium: H835_0629 Medium parameters used: f = 849 MHz; σ = 0.91 mho/m; ε_r = 42.661; ρ = 1000 kg/m^3
Ambient Temperature：22.4 ℃；Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.87, 8.87, 8.87); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: TP:1653
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch251/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
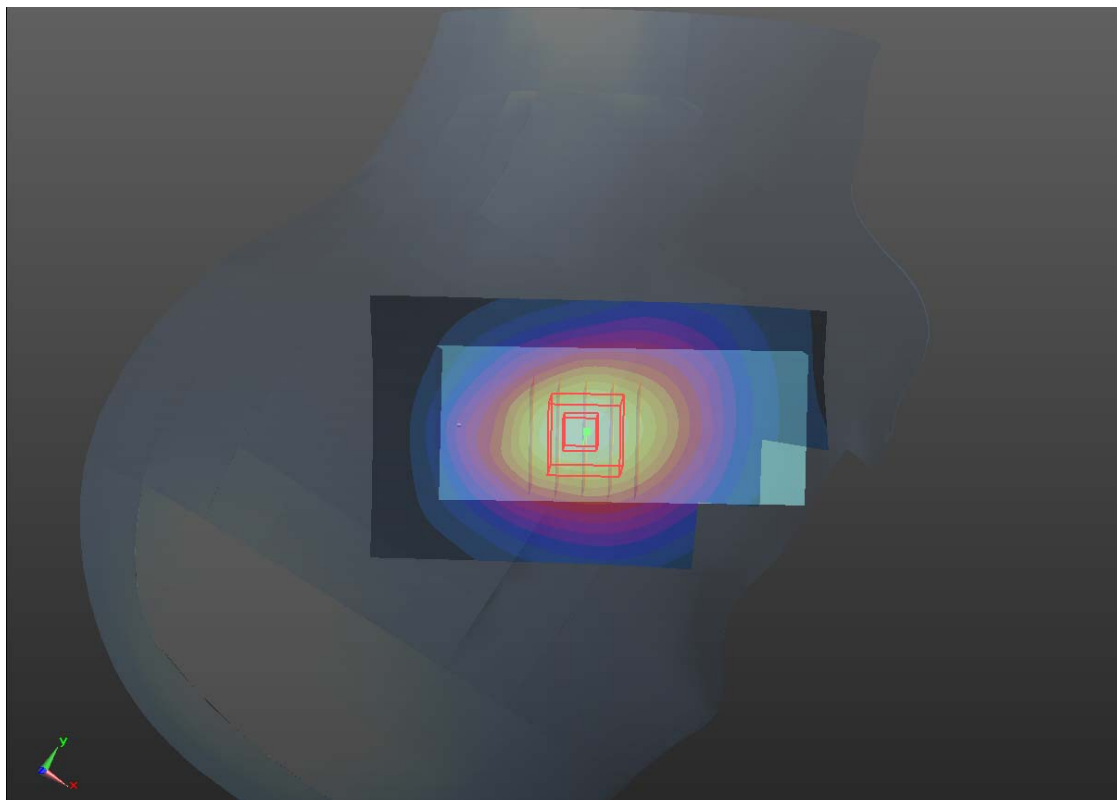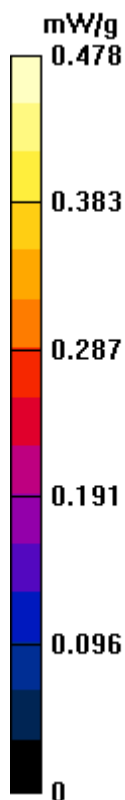Maximum value of SAR (interpolated) = 0.478 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.907 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.514 mW/g
SAR(1 g) = 0.395 mW/g; SAR(10 g) = 0.286 mW/g
Maximum value of SAR (measured) = 0.463 mW/g

P03 GSM850_Left Cheek_Ch251

DUT: 120628C20

Communication System: GSM; Frequency: 848.8 MHz;Duty Cycle: 1:8.30042
Medium: H835_0629 Medium parameters used: f = 849 MHz; σ = 0.91 mho/m; ε_r = 42.661; ρ = 1000 kg/m^3
Ambient Temperature：22.4 ℃；Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.87, 8.87, 8.87); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: TP:1653
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch251/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
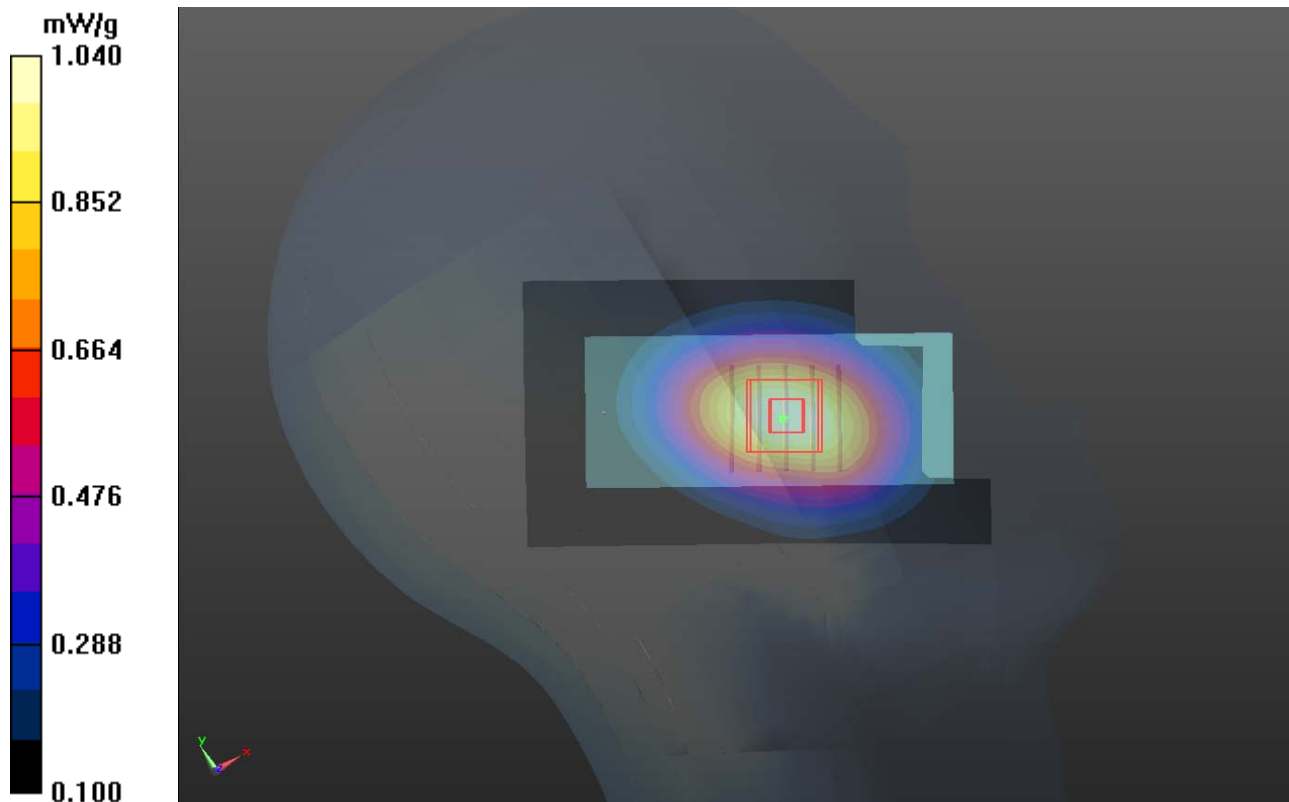Maximum value of SAR (interpolated) = 1.03 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.771 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.145 mW/g
SAR(1 g) = 0.889 mW/g; SAR(10 g) = 0.630 mW/g
Maximum value of SAR (measured) = 1.04 mW/g

P04 GSM850_Left Tilted_Ch251

DUT: 120628C20

Communication System: GSM; Frequency: 848.8 MHz;Duty Cycle: 1:8.30042
Medium: H835_0629 Medium parameters used: f = 849 MHz; σ = 0.91 mho/m; ε_r = 42.661; ρ = 1000
kg/m^3
Ambient Temperature：22.4 ℃；Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.87, 8.87, 8.87); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: TP:1653
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch251/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
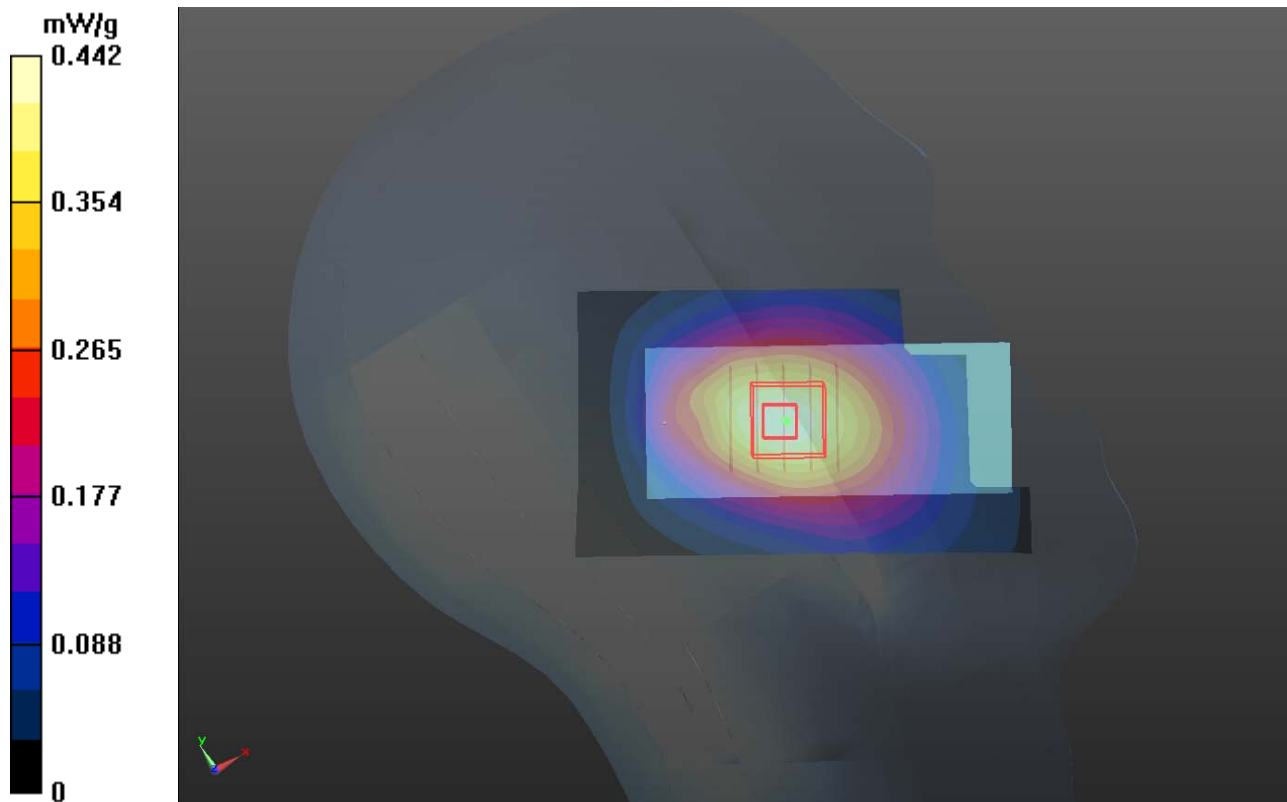Maximum value of SAR (interpolated) = 0.442 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.411 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.478 mW/g
SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.268 mW/g
Maximum value of SAR (measured) = 0.434 mW/g

P13 GSM850_Right Cheek_Ch128

DUT: 120628C20

Communication System: GSM; Frequency: 824.2 MHz;Duty Cycle: 1:8.30042
Medium: H835_0629 Medium parameters used: f = 824.2 MHz; σ = 0.887 mho/m; ε_r = 42.987; ρ =

1000 kg/m^3
Ambient Temperature：22.4 ℃；Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.87, 8.87, 8.87); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: TP:1653
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch128/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
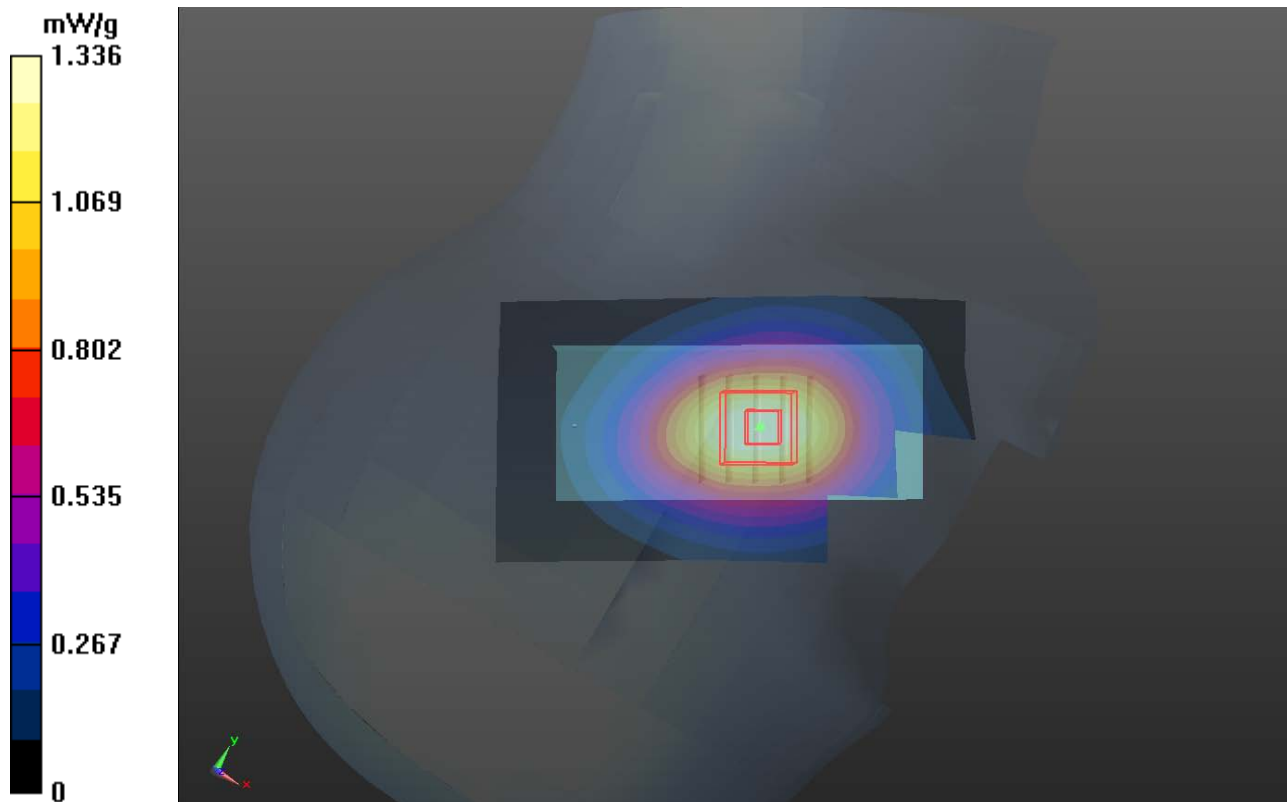Maximum value of SAR (interpolated) = 1.34 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
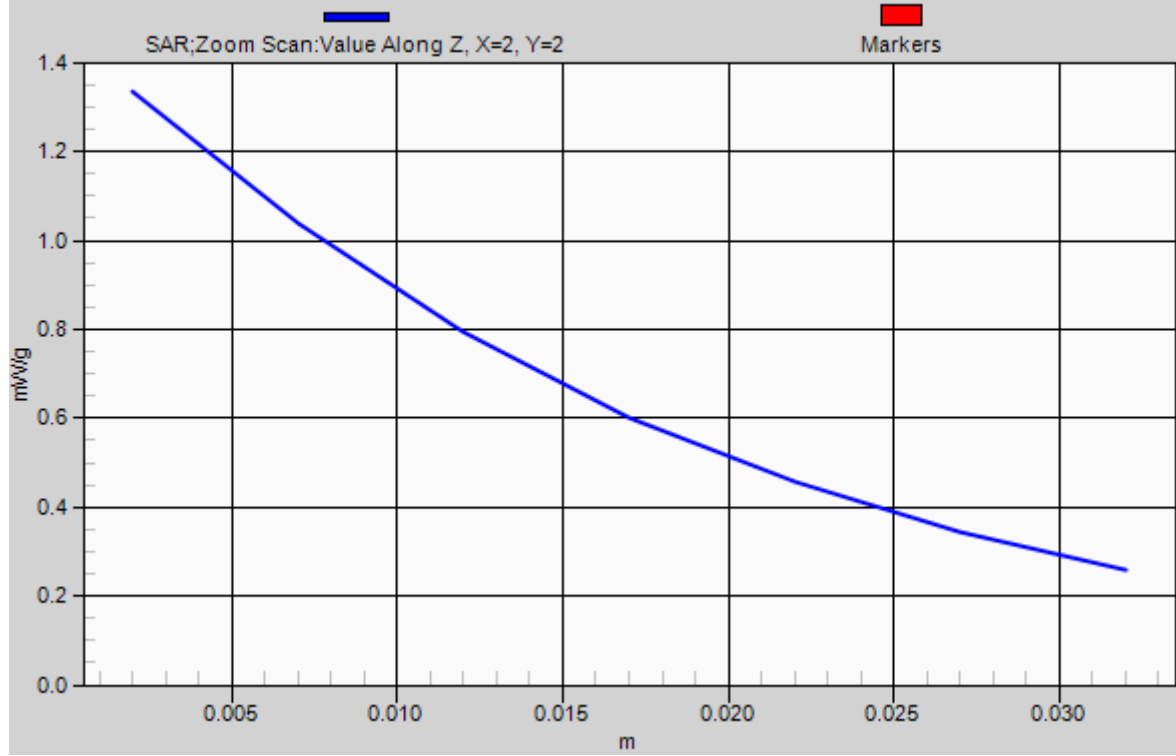Reference Value = 14.278 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.476 mW/g
SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.821 mW/g
Maximum value of SAR (measured) = 1.33 mW/g

1g/10g Averaged SAR

P14 GSM850_Right Cheek_Ch189

DUT: 120628C20

Communication System: GSM; Frequency: 836.4 MHz;Duty Cycle: 1:8.30042
Medium: H835_0629 Medium parameters used: f = 836.4 MHz; σ = 0.898 mho/m; $ε_r$ = 42.829; ρ =

1000 kg/m^3
Ambient Temperature：22.4 ℃；Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.87, 8.87, 8.87); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: TP:1653
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch189/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
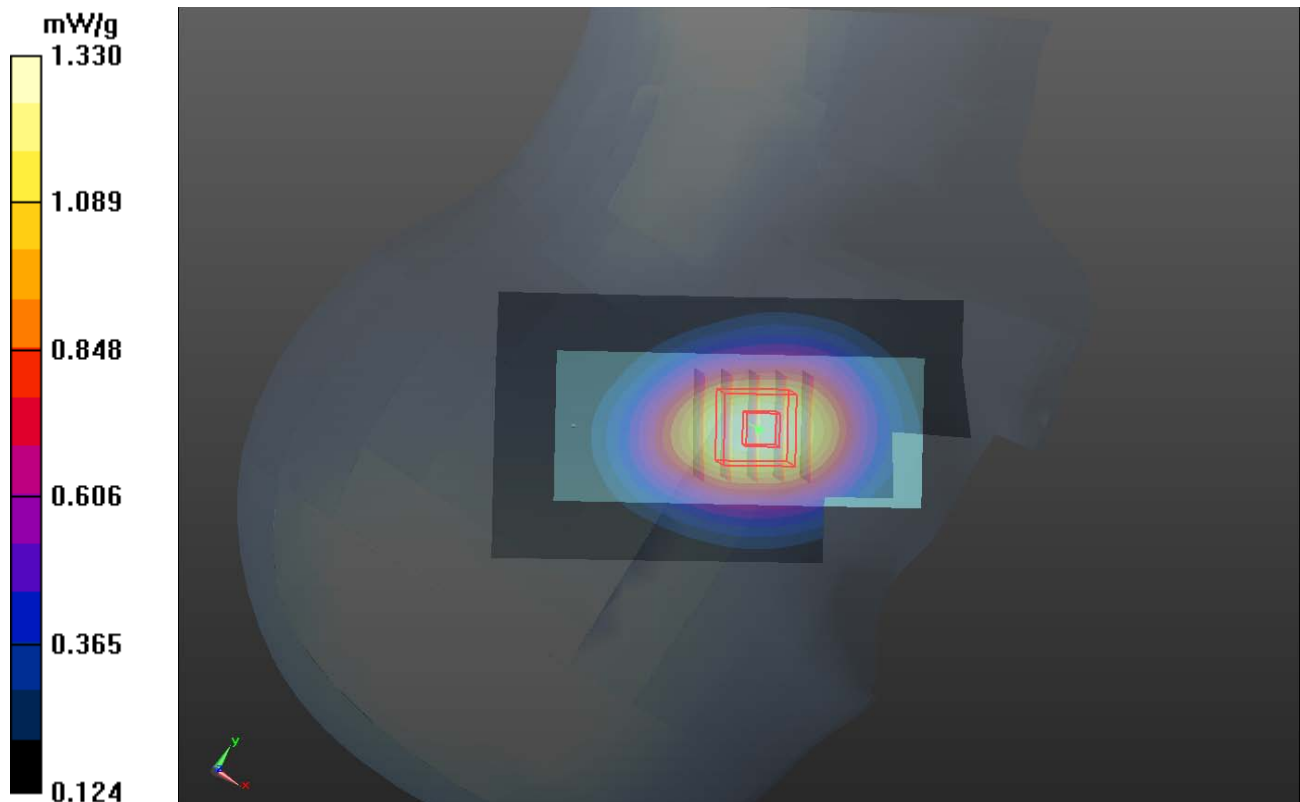Maximum value of SAR (interpolated) = 1.33 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.887 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.465 mW/g
SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.813 mW/g
Maximum value of SAR (measured) = 1.33 mW/g

P15 GSM850_Left Cheek_Ch128

DUT: 120628C20

Communication System: GSM; Frequency: 824.2 MHz;Duty Cycle: 1:8.30042
Medium: H835_0629 Medium parameters used: f = 824.2 MHz; σ = 0.887 mho/m; ε_r = 42.987; ρ =

1000 kg/m^3
Ambient Temperature：22.4 ℃；Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.87, 8.87, 8.87); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: TP:1653
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch128/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
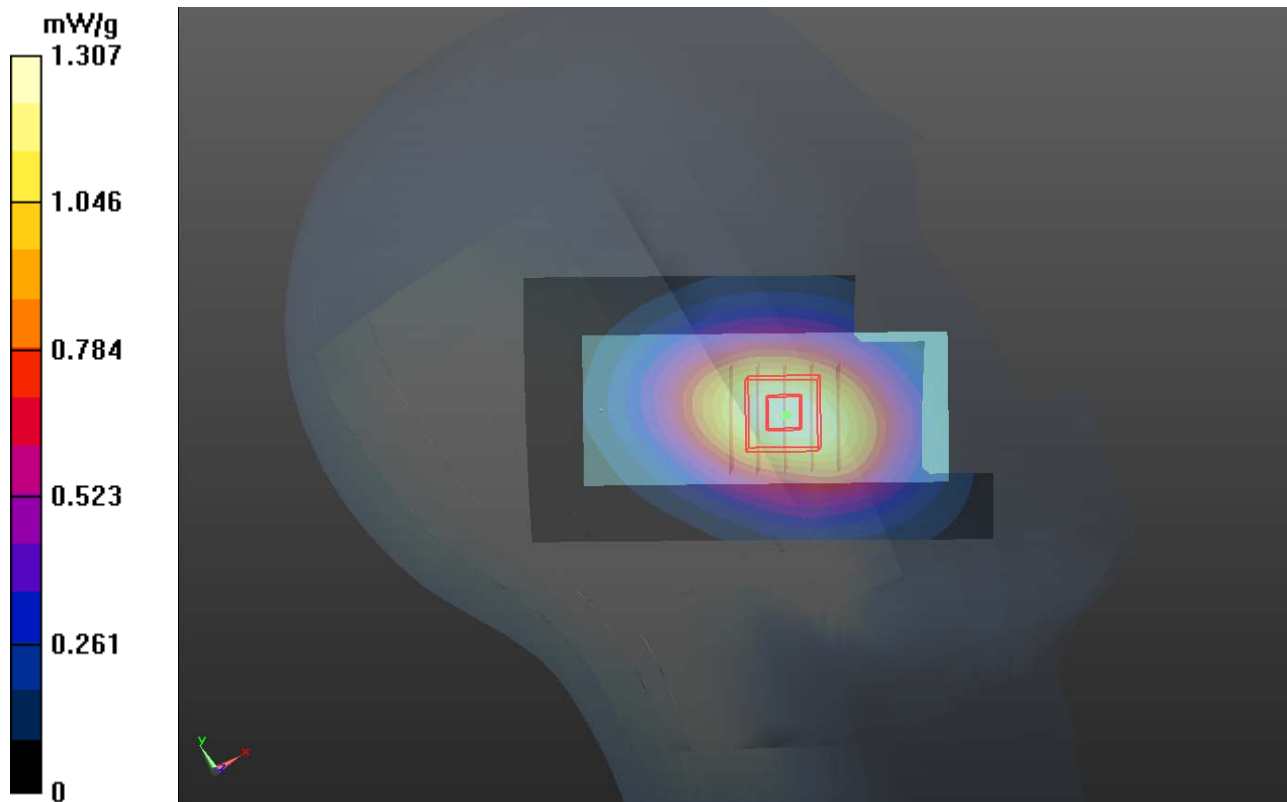Maximum value of SAR (interpolated) = 1.31 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.828 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.437 mW/g
SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.804 mW/g
Maximum value of SAR (measured) = 1.29 mW/g

P16 GSM850_Left Cheek_Ch189

DUT: 120628C20

Communication System: GSM; Frequency: 836.4 MHz;Duty Cycle: 1:8.30042
Medium: H835_0629 Medium parameters used: f = 836.4 MHz; σ = 0.898 mho/m; ε_r = 42.829; ρ =

1000 kg/m^3
Ambient Temperature：22.4 ℃；Liquid Temperature：21.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(8.87, 8.87, 8.87); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: TP:1653
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch189/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
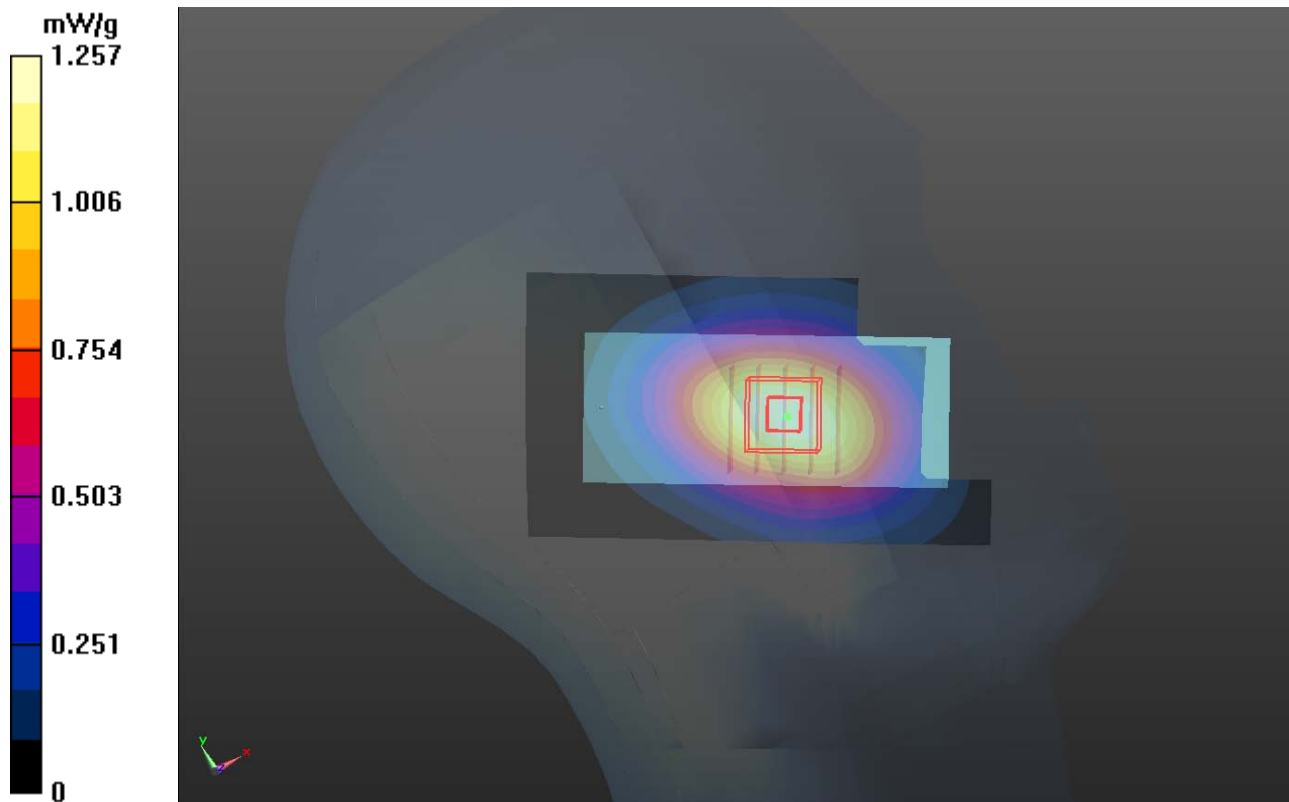Maximum value of SAR (interpolated) = 1.26 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.368 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.375 mW/g
SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.765 mW/g
Maximum value of SAR (measured) = 1.23 mW/g

P07 GSM1900_Right Cheek_Ch512

DUT: 120628C20

Communication System: GSM; Frequency: 1850.2 MHz;Duty Cycle: 1:8.30042
Medium: H1900_0629 Medium parameters used: f = 1850.2 MHz; σ = 1.348 mho/m; ε_r = 41.012; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃；Liquid Temperature：20.9 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(7.4, 7.4, 7.4); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: TP:1653
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch512/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
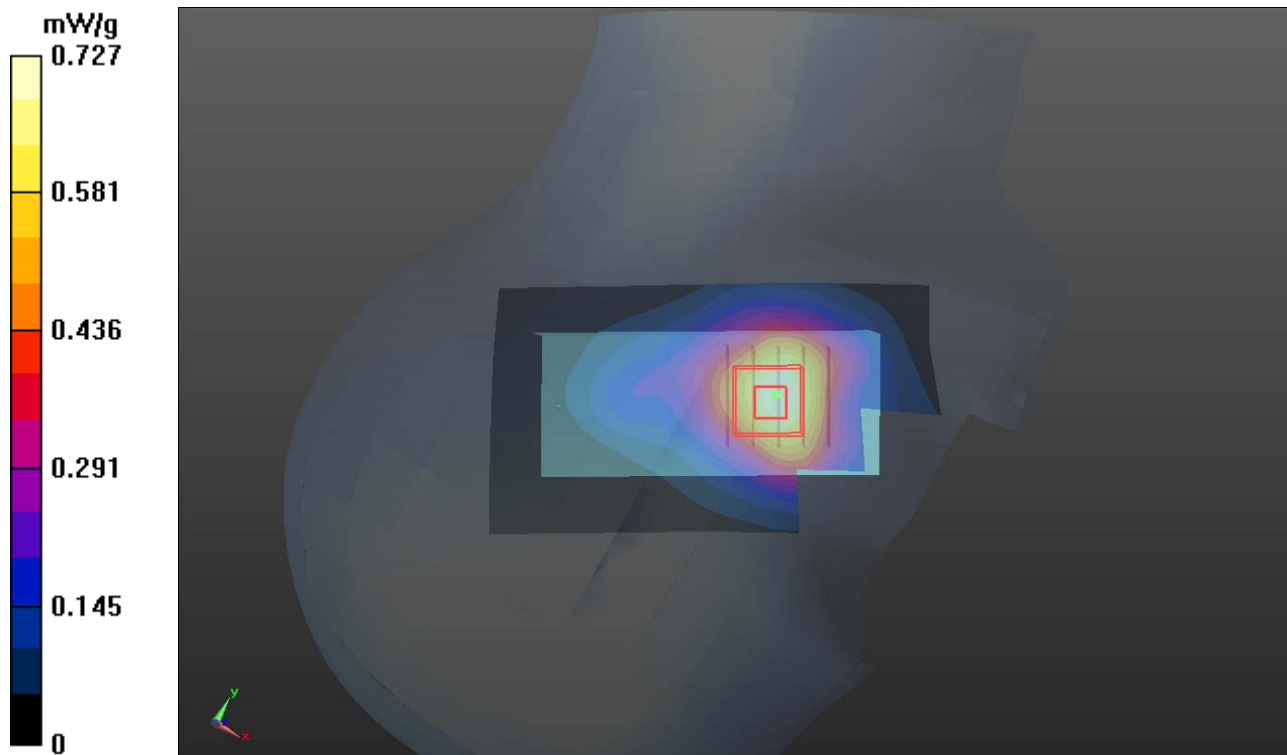Maximum value of SAR (interpolated) = 0.727 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.657 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.909 mW/g
SAR(1 g) = 0.586 mW/g; SAR(10 g) = 0.361 mW/g
Maximum value of SAR (measured) = 0.756 mW/g

P08 GSM1900_Right Tilted_Ch512

DUT: 120628C20

Communication System: GSM; Frequency: 1850.2 MHz;Duty Cycle: 1:8.30042
Medium: H1900_0629 Medium parameters used: f = 1850.2 MHz; σ = 1.348 mho/m; ε_r = 41.012; ρ =

1000 kg/m^3
Ambient Temperature：21.9 ℃；Liquid Temperature：20.9 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(7.4, 7.4, 7.4); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: TP:1653
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch512/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.153 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.702 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.181 mW/g
SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.073 mW/g
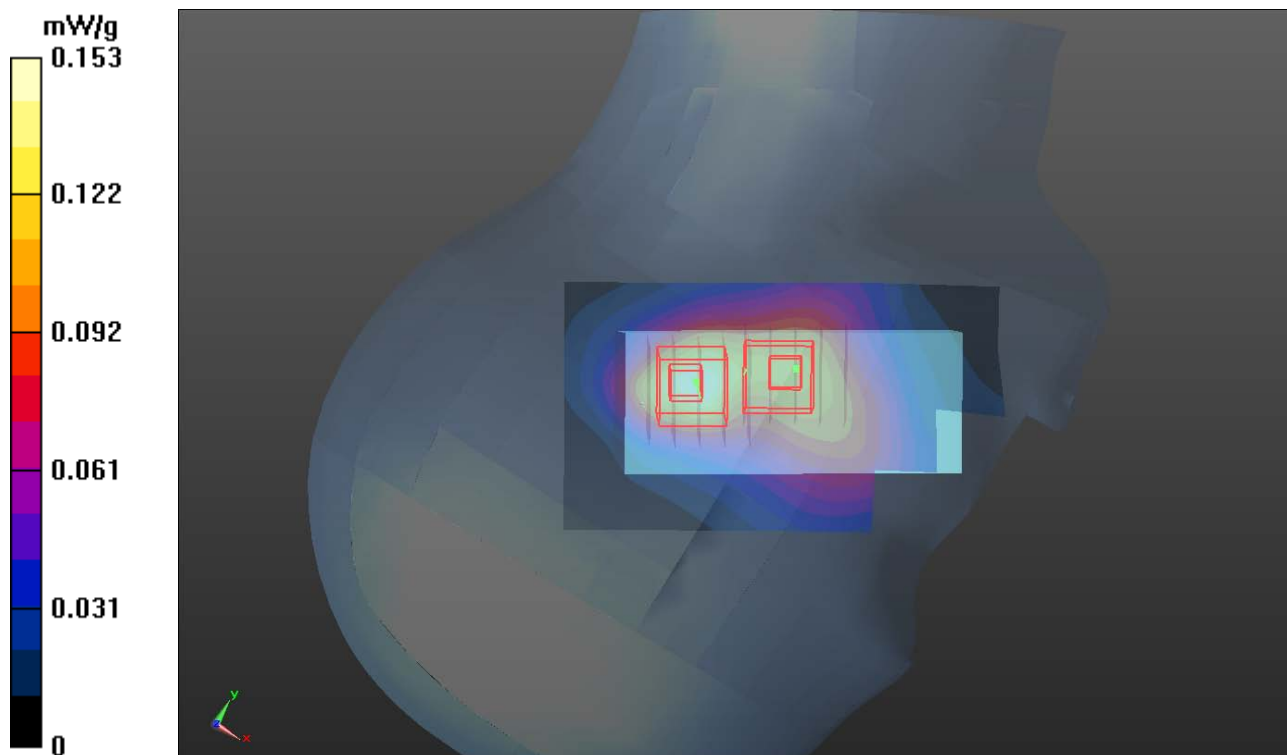Maximum value of SAR (measured) = 0.150 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.702 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.139 mW/g
SAR(1 g) = 0.092 mW/g; SAR(10 g) = 0.062 mW/g
Maximum value of SAR (measured) = 0.117 mW/g

P09 GSM1900_Left Cheek_Ch512

DUT: 120628C20

Communication System: GSM; Frequency: 1850.2 MHz;Duty Cycle: 1:8.30042
Medium: H1900_0629 Medium parameters used: f = 1850.2 MHz; σ = 1.348 mho/m; ε_r = 41.012; ρ =

1000 kg/m^3
Ambient Temperature：21.9 ℃；Liquid Temperature：20.9 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(7.4, 7.4, 7.4); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: TP:1653
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch512/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
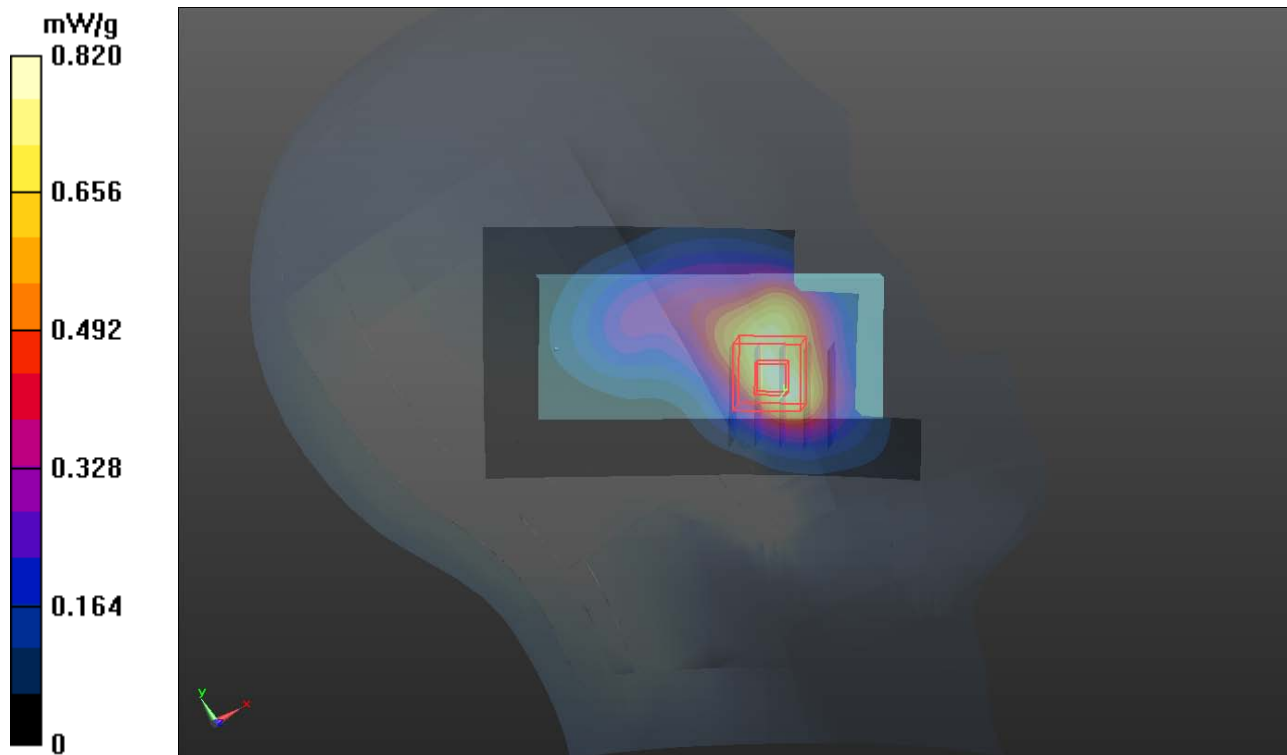Maximum value of SAR (interpolated) = 0.820 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
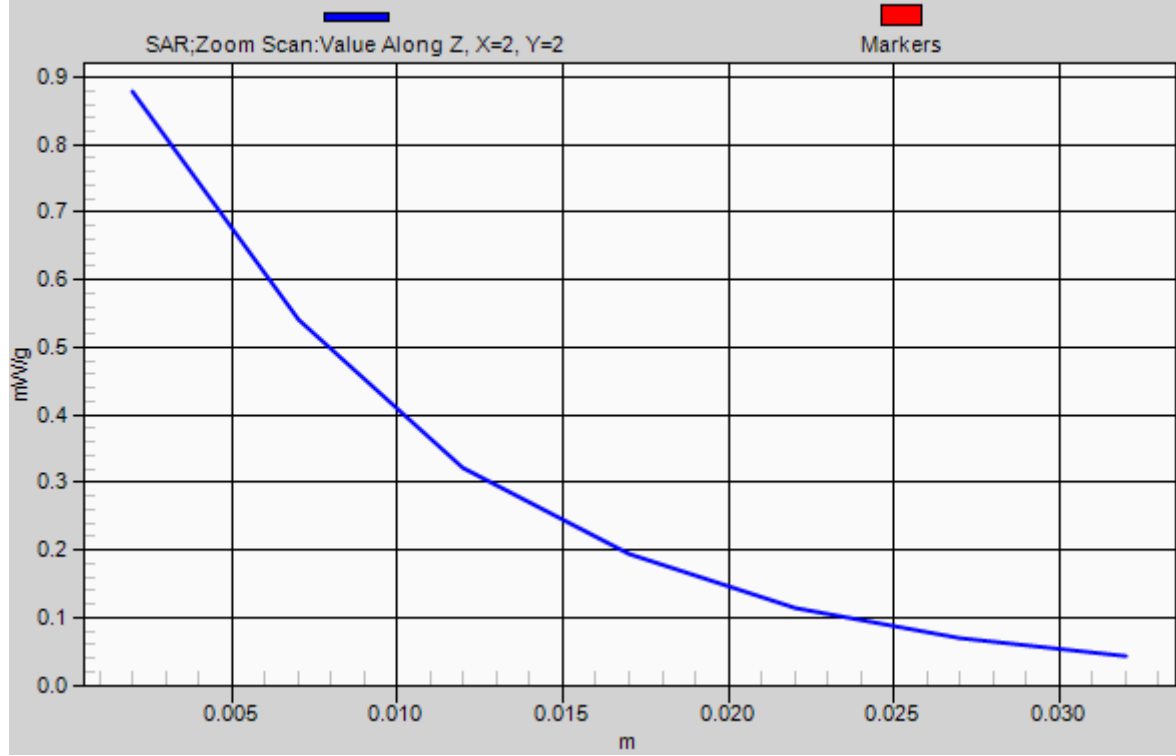Reference Value = 8.083 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.097 mW/g
SAR(1 g) = 0.673 mW/g; SAR(10 g) = 0.395 mW/g
Maximum value of SAR (measured) = 0.878 mW/g

P09 GSM1900_Left Cheek_Ch512

1g/10g Averaged SAR

P10 GSM1900_Left Tilted_Ch512

DUT: 120628C20

Communication System: GSM; Frequency: 1850.2 MHz;Duty Cycle: 1:8.30042
Medium: H1900_0629 Medium parameters used: f = 1850.2 MHz; σ = 1.348 mho/m; $ε_r$ = 41.012; ρ =

1000 kg/m^3
Ambient Temperature：21.9 ℃；Liquid Temperature：20.9 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(7.4, 7.4, 7.4); Calibrated: 2011/10/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: TP:1653
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch512/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
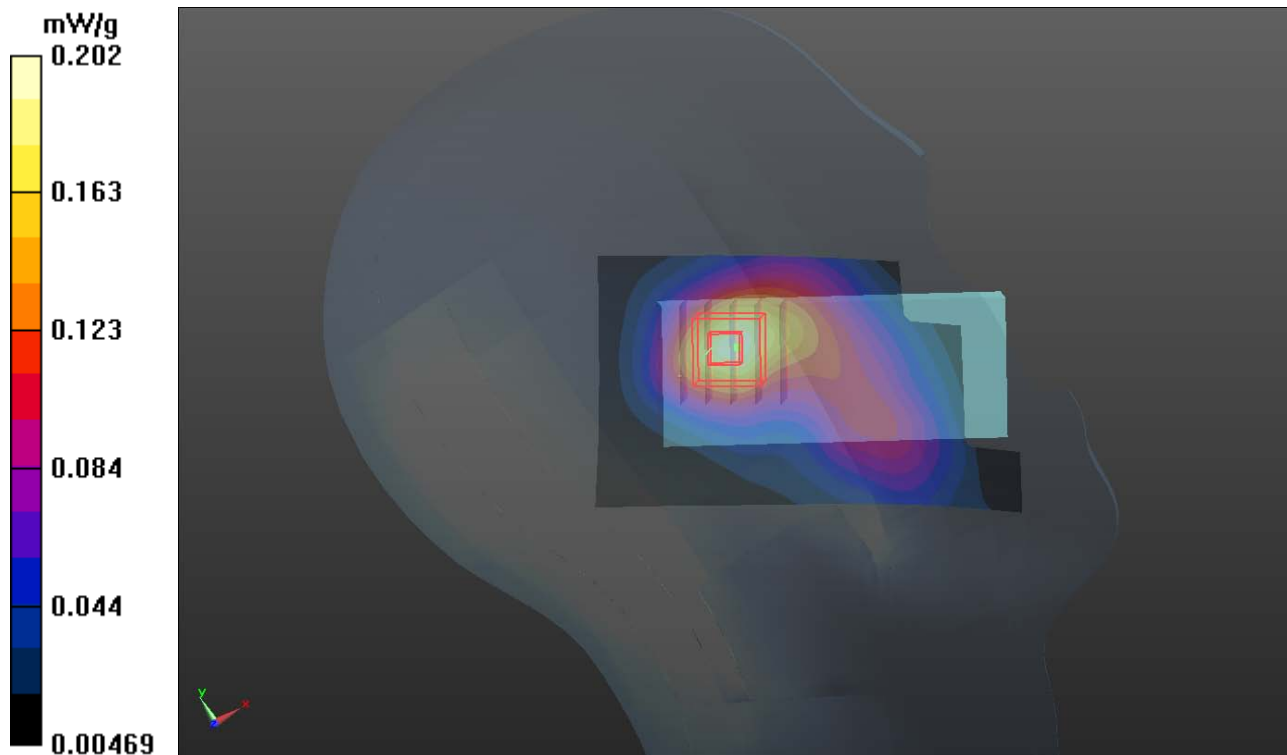Maximum value of SAR (interpolated) = 0.198 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.566 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.246 mW/g
SAR(1 g) = 0.158 mW/g; SAR(10 g) = 0.096 mW/g
Maximum value of SAR (measured) = 0.202 mW/g

P05 GSM850_Front Face_1.5cm_Ch251_Earphone

DUT: 120628C20

Communication System: GSM; Frequency: 848.8 MHz;Duty Cycle: 1:8.30042
Medium: B835_0629 Medium parameters used: f = 849 MHz; σ = 1.005 mho/m; ε_r = 55.221; ρ =

1000 kg/m^3
Ambient Temperature：21.7 ℃；Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3820; ConvF(9.24, 9.24, 9.24); Calibrated: 2011/12/16;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch251/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
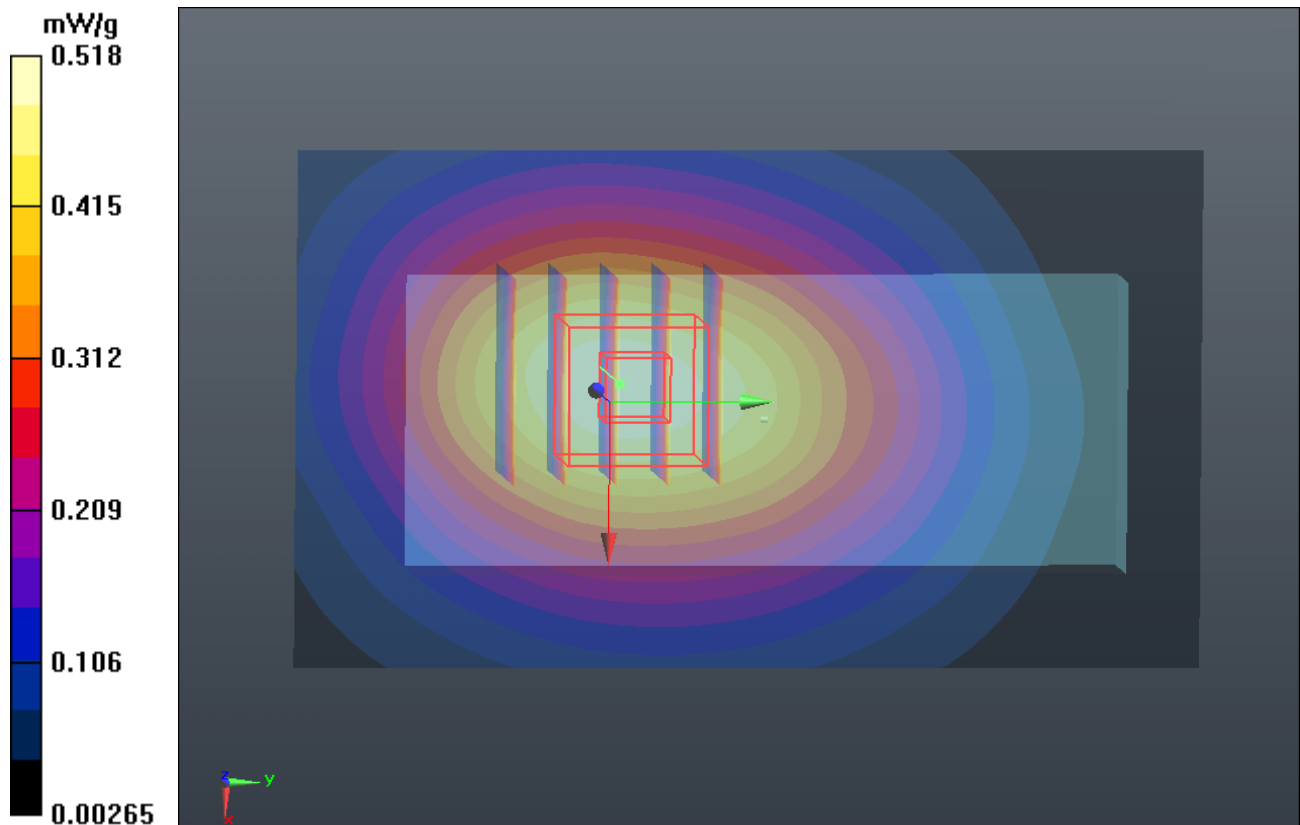Maximum value of SAR (interpolated) = 0.518 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.495 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.585 mW/g
SAR(1 g) = 0.431 mW/g; SAR(10 g) = 0.310 mW/g
Maximum value of SAR (measured) = 0.514 mW/g

P06 GSM850_Rear Face_1.5cm_Ch251_Earphone

DUT: 120628C20

Communication System: GSM; Frequency: 848.8 MHz;Duty Cycle: 1:8.30042
Medium: B835_0629 Medium parameters used: f = 849 MHz; σ = 1.005 mho/m; ε_r = 55.221; ρ =

1000 kg/m^3
Ambient Temperature：21.7 ℃；Liquid Temperature：20.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3820; ConvF(9.24, 9.24, 9.24); Calibrated: 2011/12/16;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch251/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
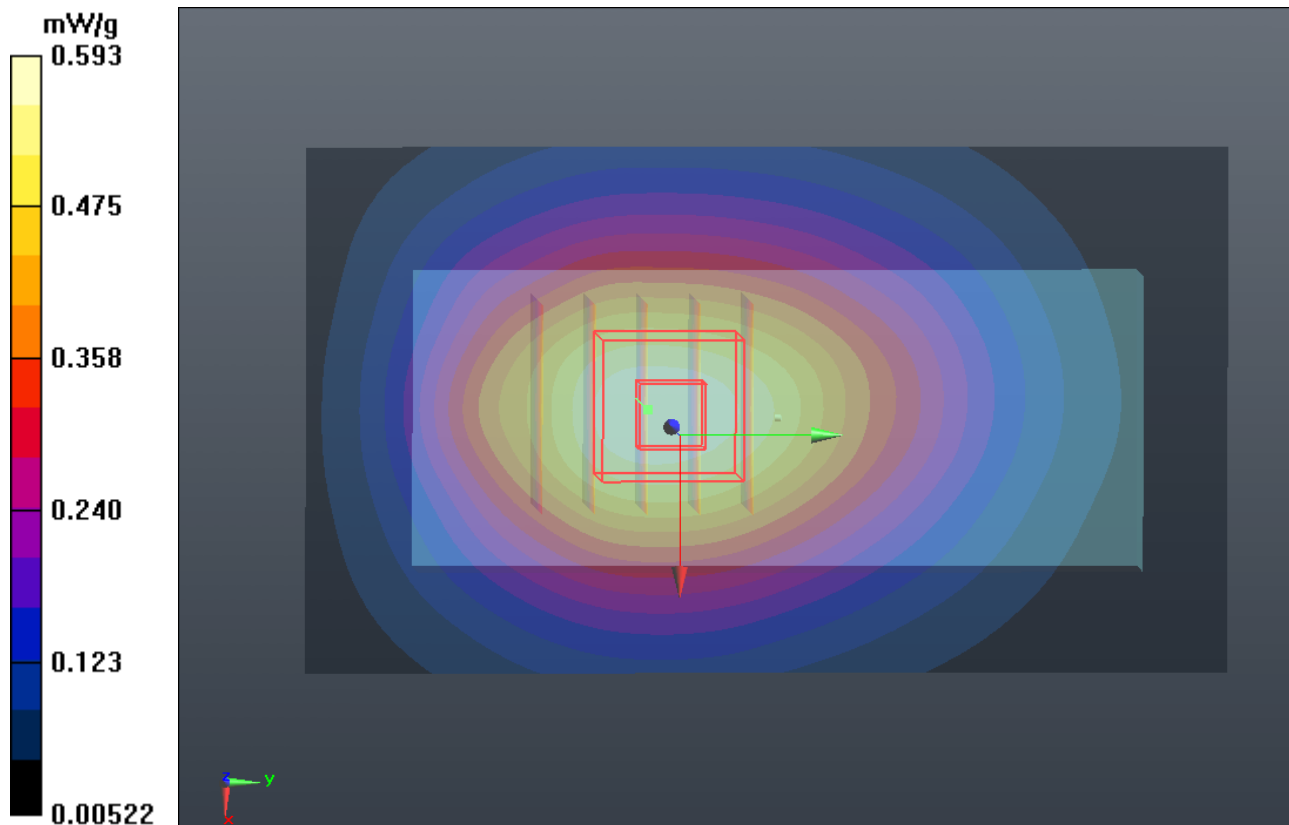Maximum value of SAR (interpolated) = 0.593 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
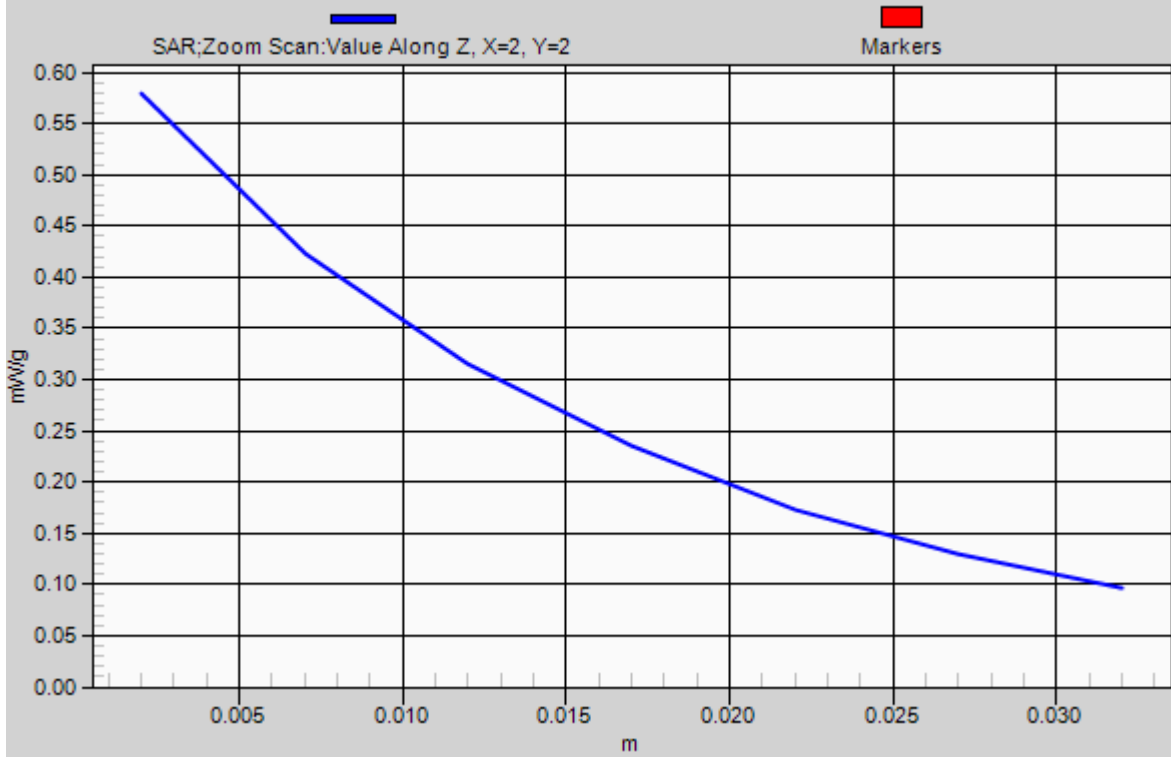Reference Value = 23.215 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.664 mW/g
SAR(1 g) = 0.484 mW/g; SAR(10 g) = 0.344 mW/g
Maximum value of SAR (measured) = 0.579 mW/g

1g/10g Averaged SAR

P11 GSM1900_Front Face_1.5cm_Ch512_Earphone

DUT: 120628C20

Communication System: GSM; Frequency: 1850.2 MHz;Duty Cycle: 1:8.30042
Medium: B1900_0629 Medium parameters used: f = 1850.2 MHz; σ = 1.497 mho/m; ε_r = 54.649; ρ =

1000 kg/m^3
Ambient Temperature：21.4 ℃；Liquid Temperature：20.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3820; ConvF(8.04, 8.04, 8.04); Calibrated: 2011/12/16;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch512/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
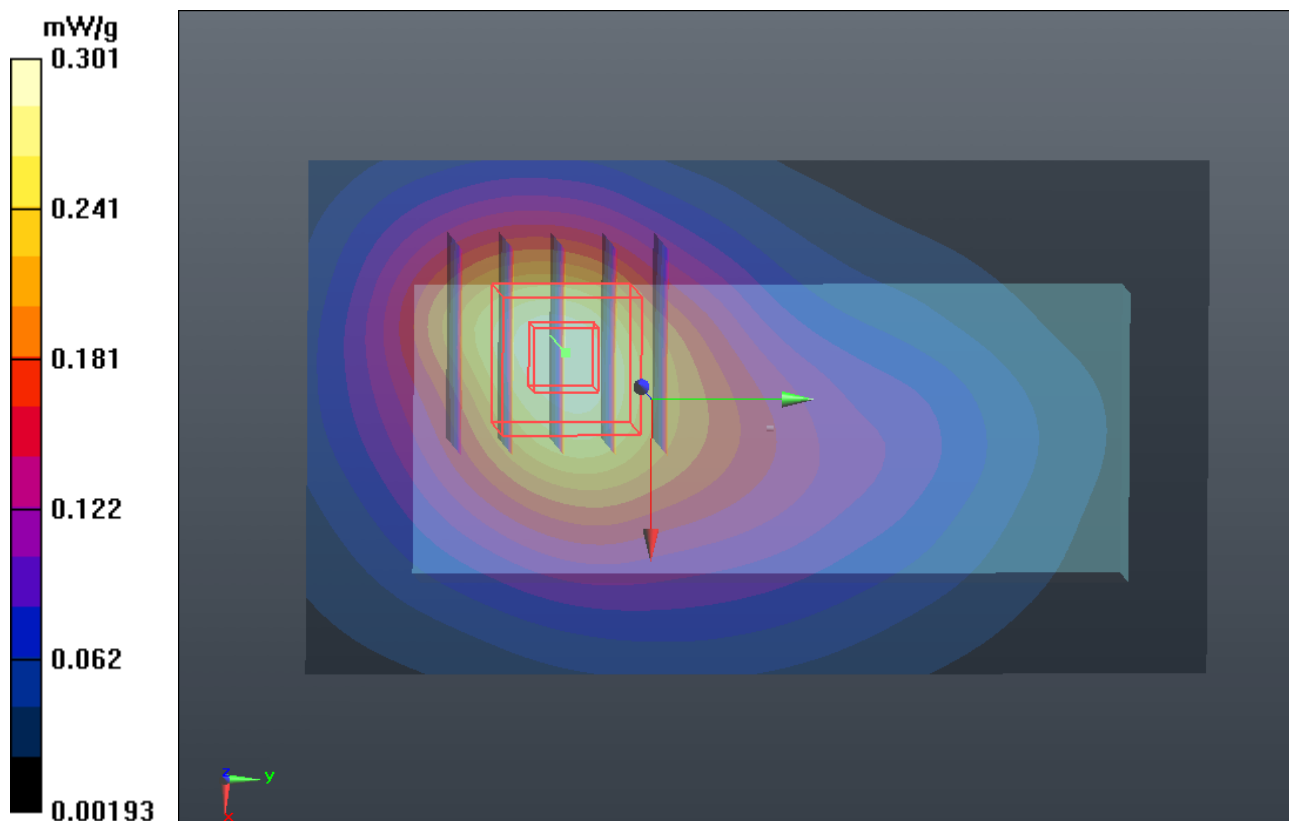Maximum value of SAR (interpolated) = 0.301 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.165 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.365 mW/g
SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.137 mW/g
Maximum value of SAR (measured) = 0.297 mW/g

P12 GSM1900_Rear Face_1.5cm_Ch512_Earphone

DUT: 120628C20

Communication System: GSM; Frequency: 1850.2 MHz;Duty Cycle: 1:8.30042
Medium: B1900_0629 Medium parameters used: f = 1850.2 MHz; σ = 1.497 mho/m; ε_r = 54.649; ρ =

1000 kg/m^3
Ambient Temperature：21.4 ℃；Liquid Temperature：20.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3820; ConvF(8.04, 8.04, 8.04); Calibrated: 2011/12/16;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2012/04/27
- Phantom: SAM Phantom_Left; Type: SAM V4.0; Serial: TP 1652
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Ch512/Area Scan (41x71x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.483 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.968 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.604 mW/g
SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.201 mW/g
Maximum value of SAR (measured) = 0.463 mW/g

1g/10g Averaged SAR