



Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT- C5215-9A-0313

EXHIBIT 9 APPENDIX A: SAR VALIDATION PLOTS

Validation for HEAD

Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT- C5215-9A-0313

Test Laboratory: Comptest/Kyocera

Date: 03/11/2013

835MHz Validation , Probe #3036, DAE #603, Dipole #467

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

Medium: Head 835 MHz, Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 41.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(5.8, 5.8, 5.8), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603, Calibrated: 9/12/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature: Room T = 21.8 $\square\square\square 1 \text{ deg C}$, Liquid T = 22.0 $\square\square\square 1 \text{ deg C}$

835MHz/Area Scan (51x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.05 mW/g

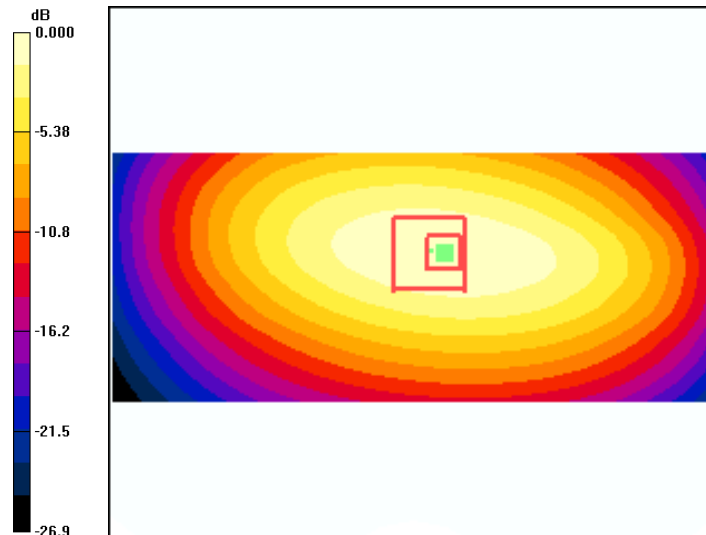
835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.7 V/m; Power Drift = 0.072 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.971 mW/g; SAR(10 g) = 0.632 mW/g

Maximum value of SAR (measured) = 1.05 mW/g

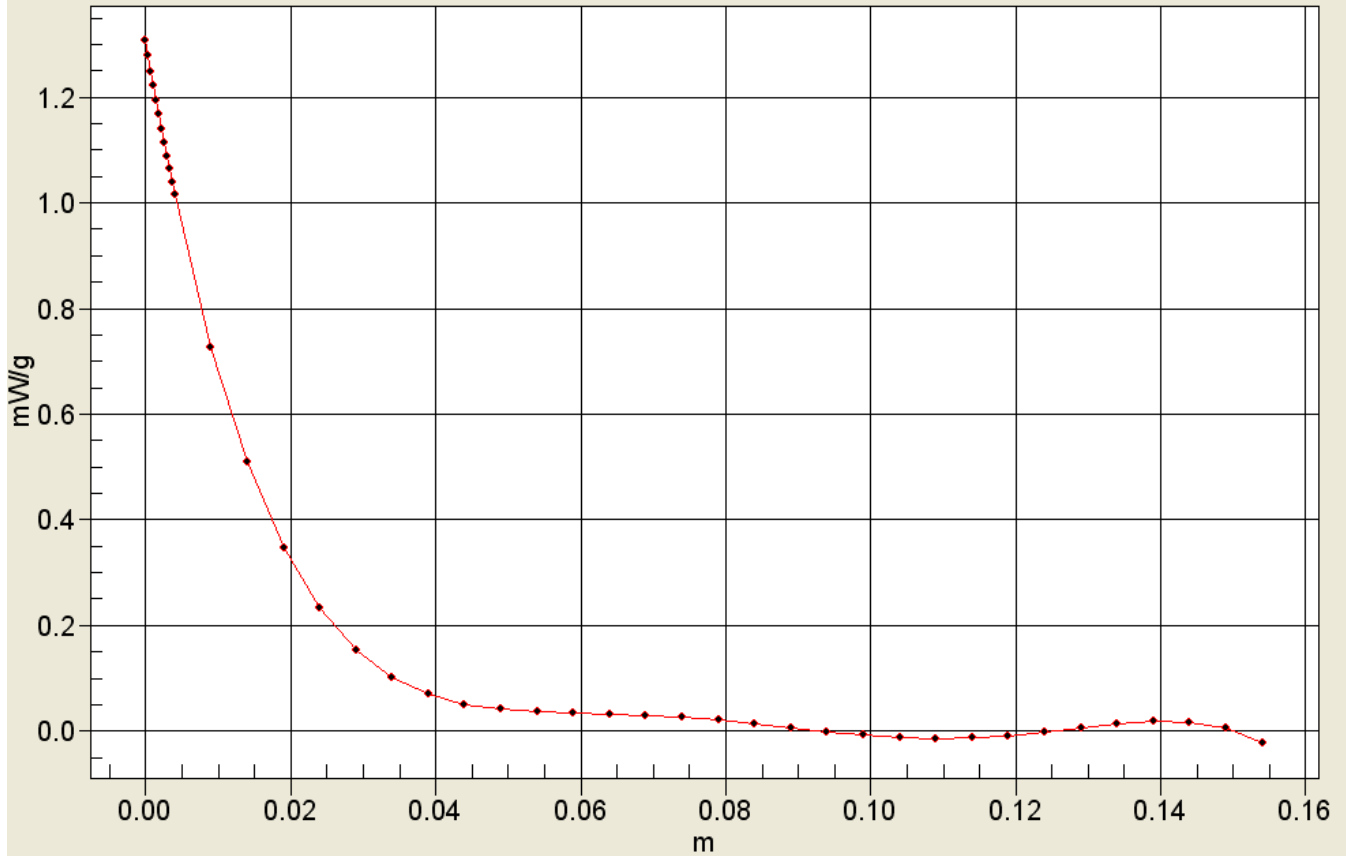


0 dB = 1.05mW/g



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Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0



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Report #:	CT- C5215-9A-0313

Test Laboratory: Comptest/Kyocera

Date: 03/18/2013

1900Mhz Validation @ 20dBm Probe 1618, DAE 530 and Dipole 5d016

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1

Medium: HSL1900,Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom: SAM_4,Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(5.17, 5.17, 5.17), Calibrated: 9/13/2012

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

Electronics: DAE4 Sn530,Calibrated: 5/30/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:Room T = 21.8 $\square\square\square$ 1 deg C, Liquid T = 22.0 $\square\square\square$ 1 deg C

1900MHz Validation @20dBm/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.67 mW/g

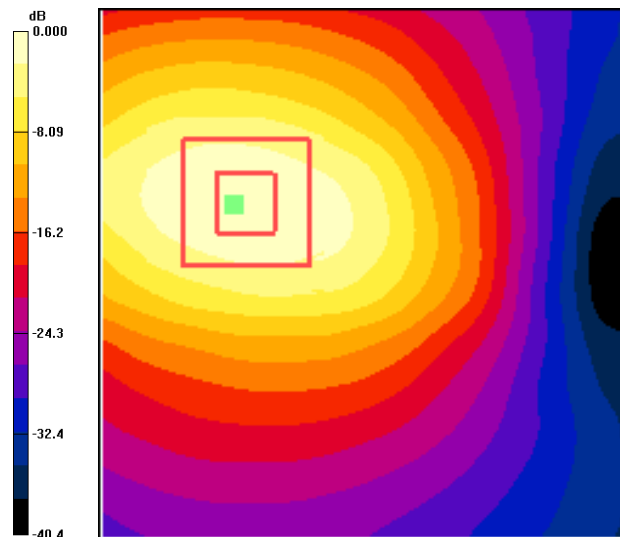
1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.2 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 6.38 W/kg

SAR(1 g) = 3.88 mW/g; SAR(10 g) = 2.07 mW/g

Maximum value of SAR (measured) = 4.40 mW/g

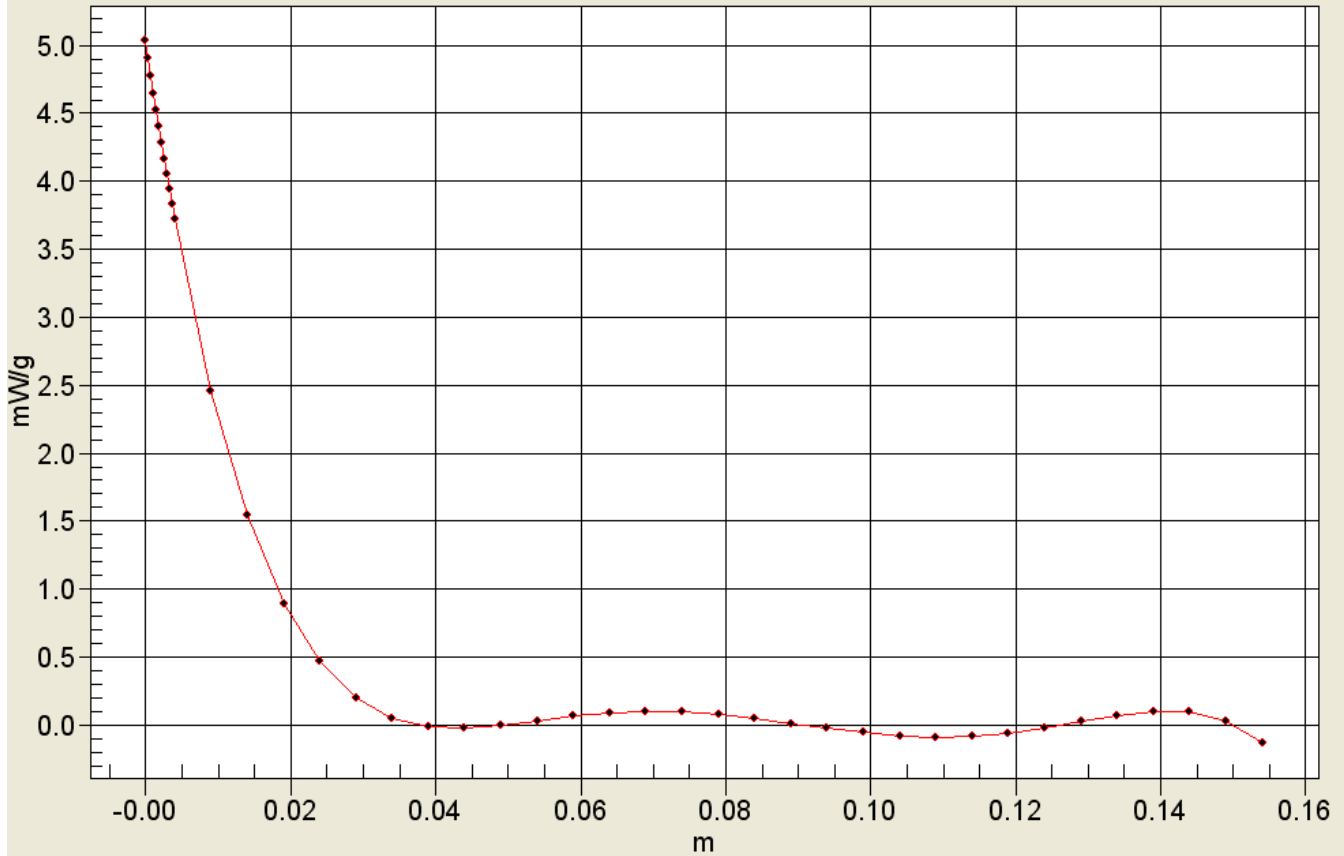


0 dB = 4.67mW/g



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Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0



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Test Laboratory: Comptest/Kyocera

Date: 04/01/2013

2450MHz Validation, Probe #3036, DAE #603, Dipole #776

Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1

Medium: HSL2450, Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(4.22, 4.22, 4.22), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603, Calibrated: 9/12/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature: Room T = 21.8 \pm 1 deg C, Liquid T = 22.0 \pm 1 deg C

2450MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 7.22 mW/g

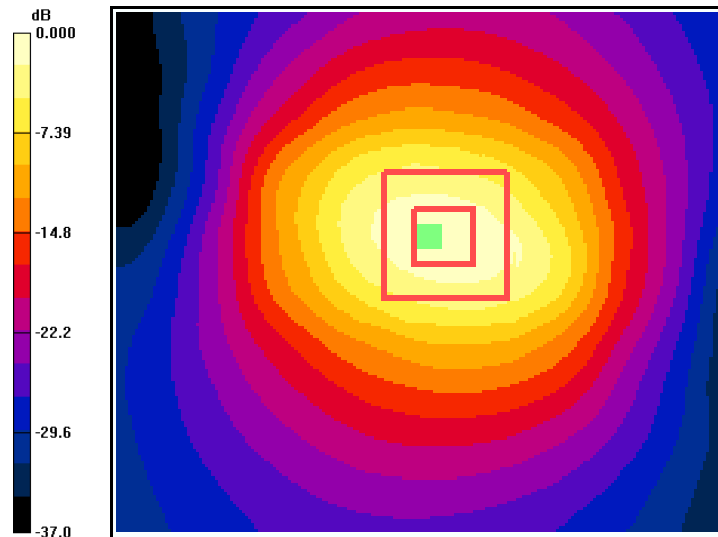
2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.0 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 12.9 W/kg

SAR(1 g) = 5.76 mW/g; SAR(10 g) = 2.56 mW/g

Maximum value of SAR (measured) = 6.51 mW/g



0 dB = 7.22mW/g



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Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0





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Validation for BODY

Applicant:	Kyocera
FCC ID:	V65C5215
Report #:	CT- C5215-9A-0313

Test Laboratory: Comptest/Kyocera

Date: 03/14/2013

835MHz Validation(Muscle), Probe #3036, DAE #603, Dipole #5d016

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

Medium: M800,Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12,Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(5.83, 5.83, 5.83), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603,Calibrated: 9/12/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:Room T = 21.8 $\square\square\square 1 \text{ deg C}$, Liquid T = 22.0 $\square\square\square 1 \text{ deg C}$

835MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.04 mW/g

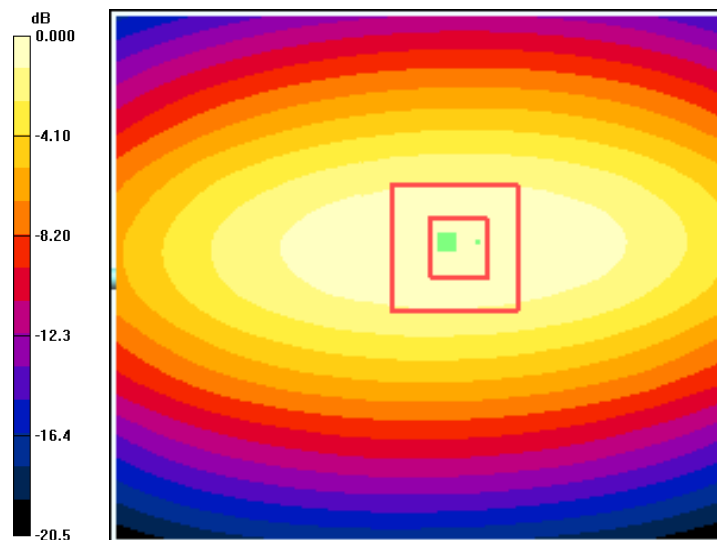
835MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.0 V/m; Power Drift = 0.132 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.969 mW/g; SAR(10 g) = 0.642 mW/g

Maximum value of SAR (measured) = 1.05 mW/g

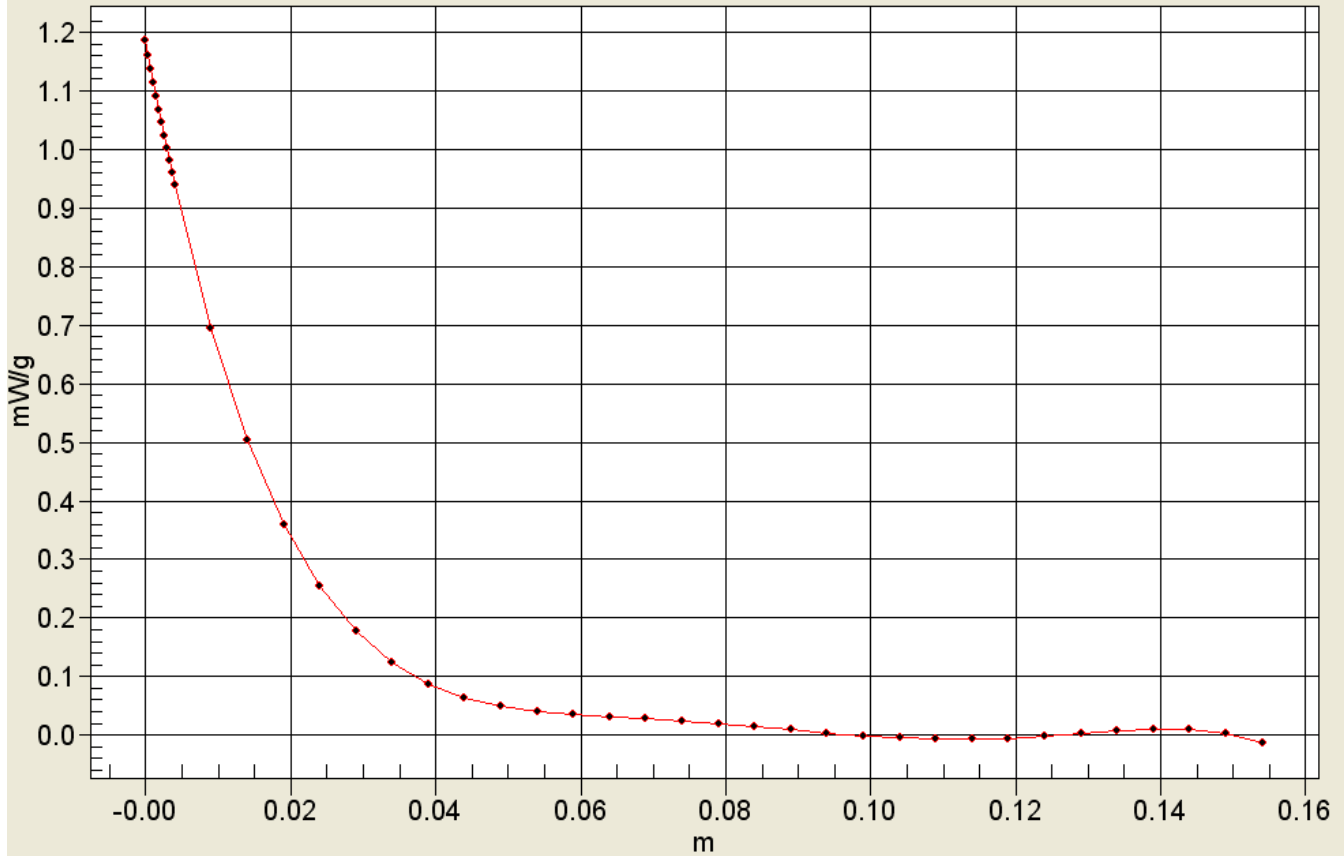


0 dB = 1.04mW/g



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Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0



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Report #:	CT- C5215-9A-0313

Test Laboratory: Comptest/Kyocera

Date: 03/21/2013

1900Mhz(Muscle) Validation @ 20dBm Probe 1618, DAE 675 and Dipole 5d016

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1

Medium: M1800,Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³

Phantom: SAM_4,Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(4.42, 4.42, 4.42), Calibrated: 9/13/2012

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

Electronics: DAE4 Sn530,Calibrated: 5/30/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:Room T = 21.8 $\square\square\square$ 1 deg C, Liquid T = 22.0 $\square\square\square$ 1 deg C

1900MHz(Muscle) Validation @20dBm/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.84 mW/g

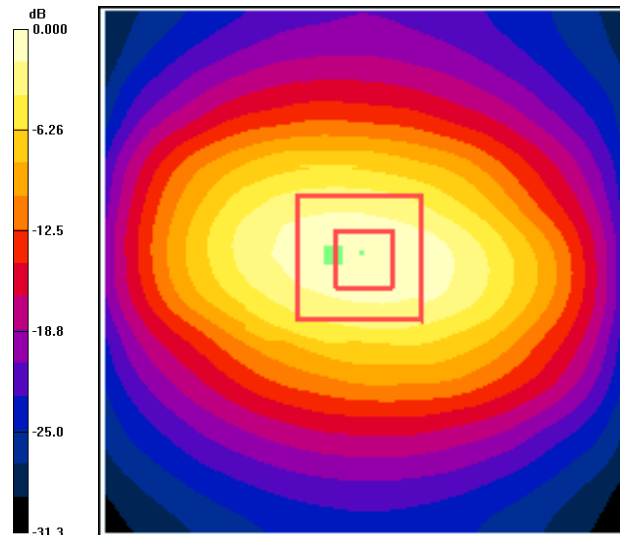
1900MHz(Muscle) Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.3 V/m; Power Drift = 0.132 dB

Peak SAR (extrapolated) = 5.78 W/kg

SAR(1 g) = 3.91 mW/g; SAR(10 g) = 2.17 mW/g

Maximum value of SAR (measured) = 4.48 mW/g

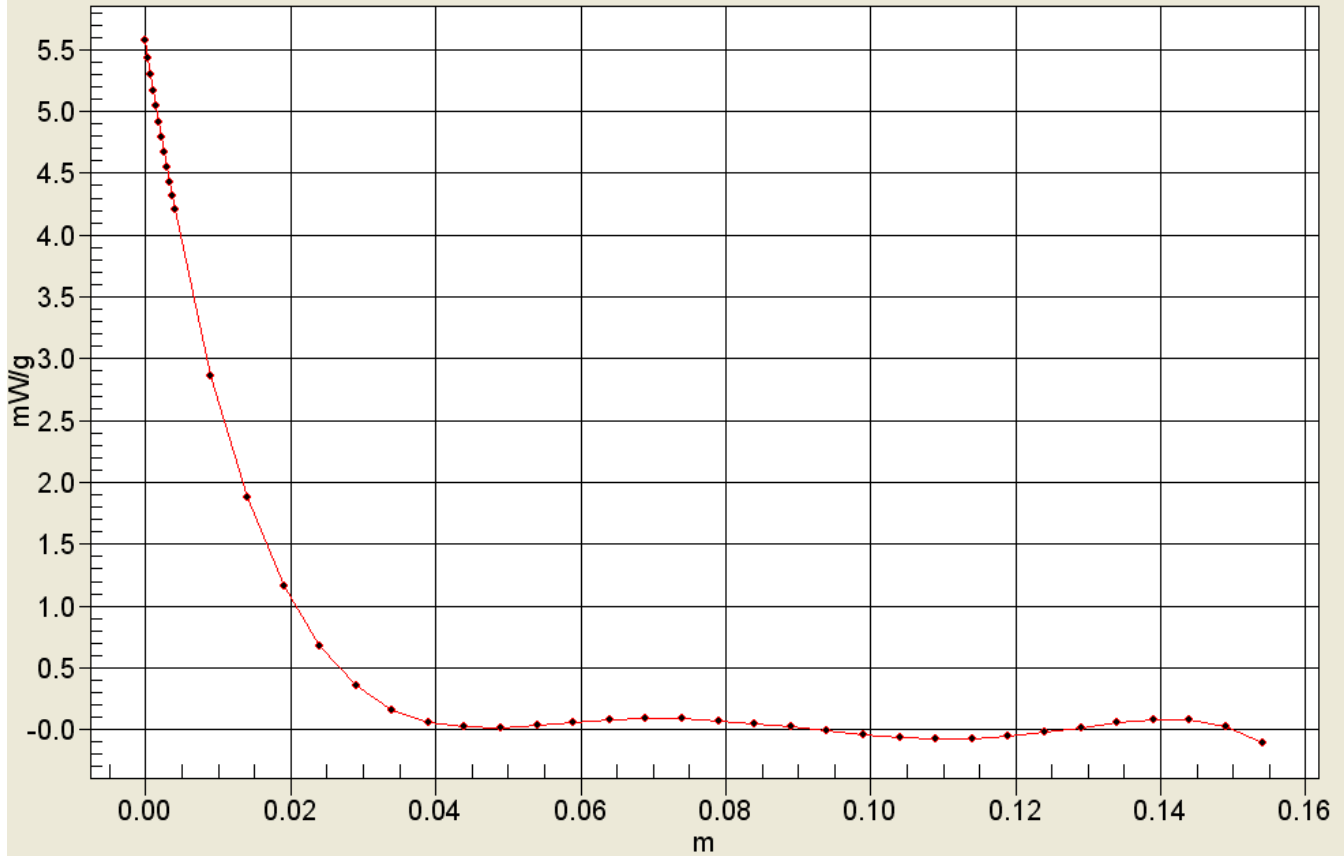


0 dB = 4.84mW/g



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Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0



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Test Laboratory: Comptest/Kyocera

Date: 04/02/2013

2450MHz Validation (Muscle), Probe #3036, DAE #603, Dipole #776

Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1

Medium: M2450, Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(4.09, 4.09, 4.09), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603, Calibrated: 9/12/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature: Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

2450MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 6.54 mW/g

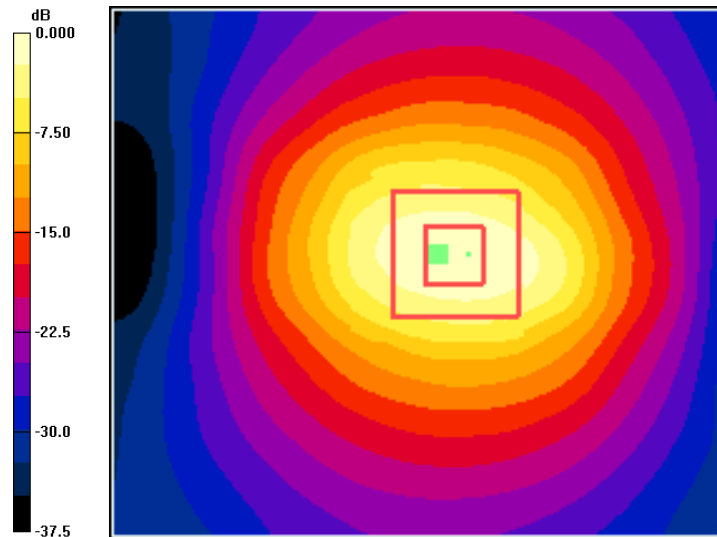
2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.7 V/m; Power Drift = 0.193 dB

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.57 mW/g; SAR(10 g) = 2.51 mW/g

Maximum value of SAR (measured) = 6.36 mW/g



0 dB = 6.54mW/g



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Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0



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Test Laboratory: Comptest/Kyocera

Date: 04/03/2013

2450MHz Validation

(Muscle), Probe #3036, DAE #603, Dipole #776

Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1

Medium: M2450, Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(4.09, 4.09, 4.09), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603, Calibrated: 9/12/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature: Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

2450MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 7.06 mW/g

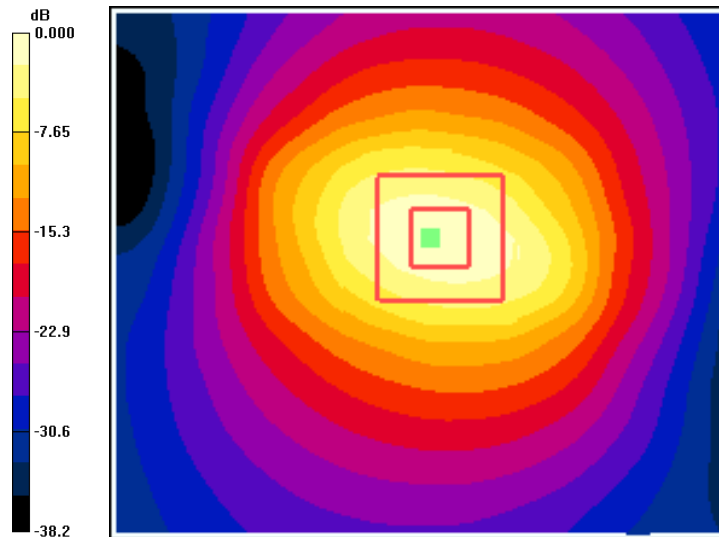
2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.1 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 12.2 W/kg

SAR(1 g) = 5.63 mW/g; SAR(10 g) = 2.54 mW/g

Maximum value of SAR (measured) = 6.38 mW/g



0 dB = 7.06mW/g



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Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0

