

Applicant:	Kyocera
FCC ID:	V65S2150
Report #:	CT-S2150-9A-0812-R0

EXHIBIT 9 APPENDIX A: SAR VALIDATION PLOTS**Validation for HEAD**

Applicant:	Kyocera
FCC ID:	V65S2150
Report #:	CT-S2150-9A-0812-R0

Test Laboratory: Comptest/Kyocera

Date: 08/10/2012

835MHz Validation , Probe #3035, DAE #530, Dipole #467

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

 Medium: Head 835 MHz, Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 43.2$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3035, ConvF(6.04, 6.04, 6.04), Calibrated: 2/22/2012

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 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

835MHz/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.07 mW/g

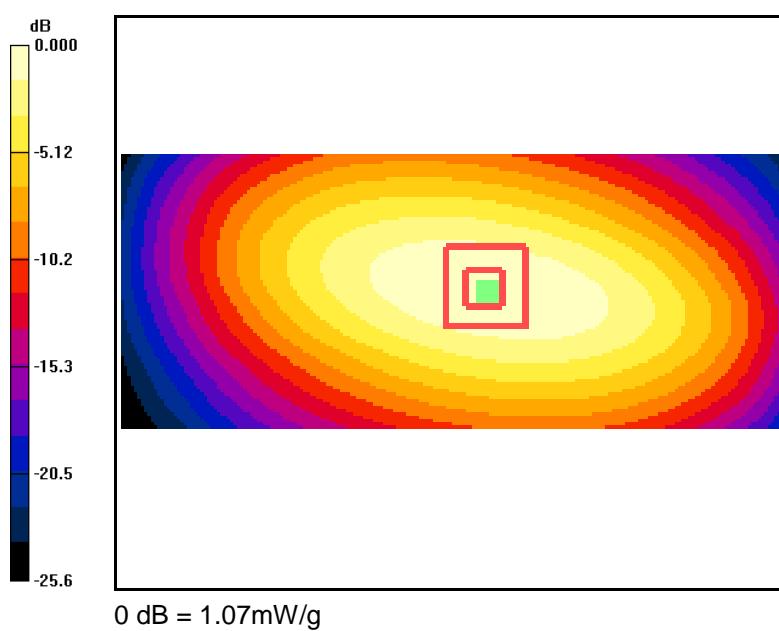
835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.6 V/m; Power Drift = -0.192 dB

Peak SAR (extrapolated) = 1.48 W/kg

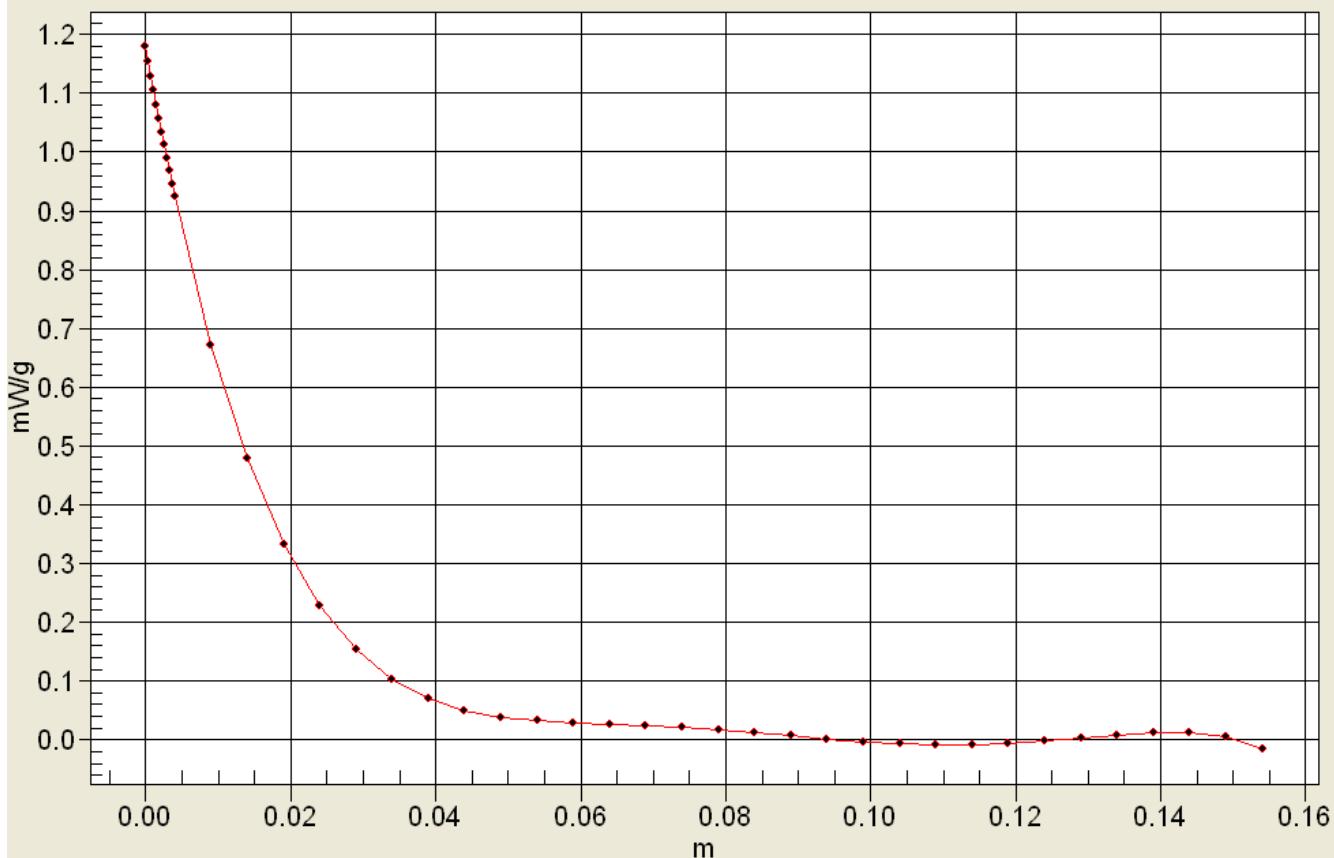
SAR(1 g) = 0.992 mW/g; SAR(10 g) = 0.647 mW/g

Maximum value of SAR (measured) = 1.07 mW/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: 08/14/2012

835MHz Validation , Probe #3035, DAE #530, Dipole #467

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

 Medium: Head 835 MHz, Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 42.7$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3035, ConvF(6.04, 6.04, 6.04), Calibrated: 2/22/2012

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 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

835MHz/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm

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

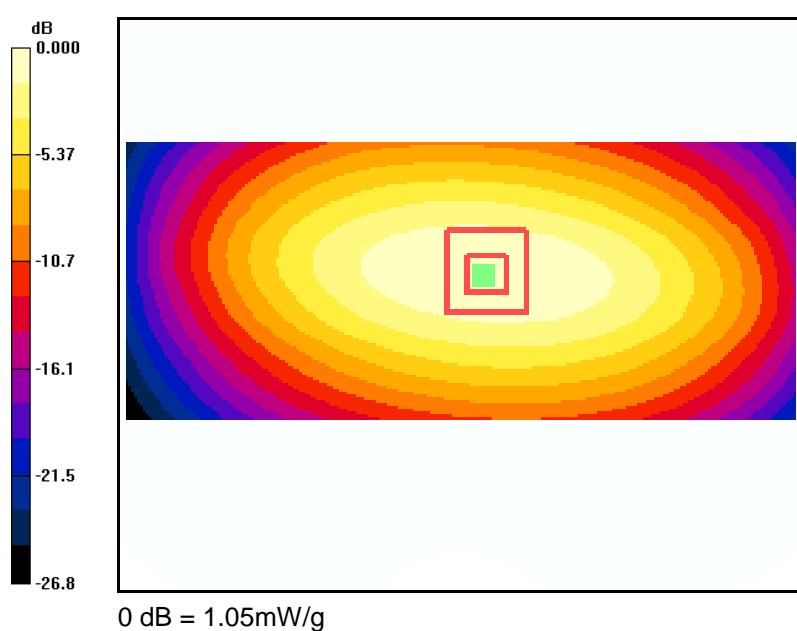
835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.3 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 1.46 W/kg

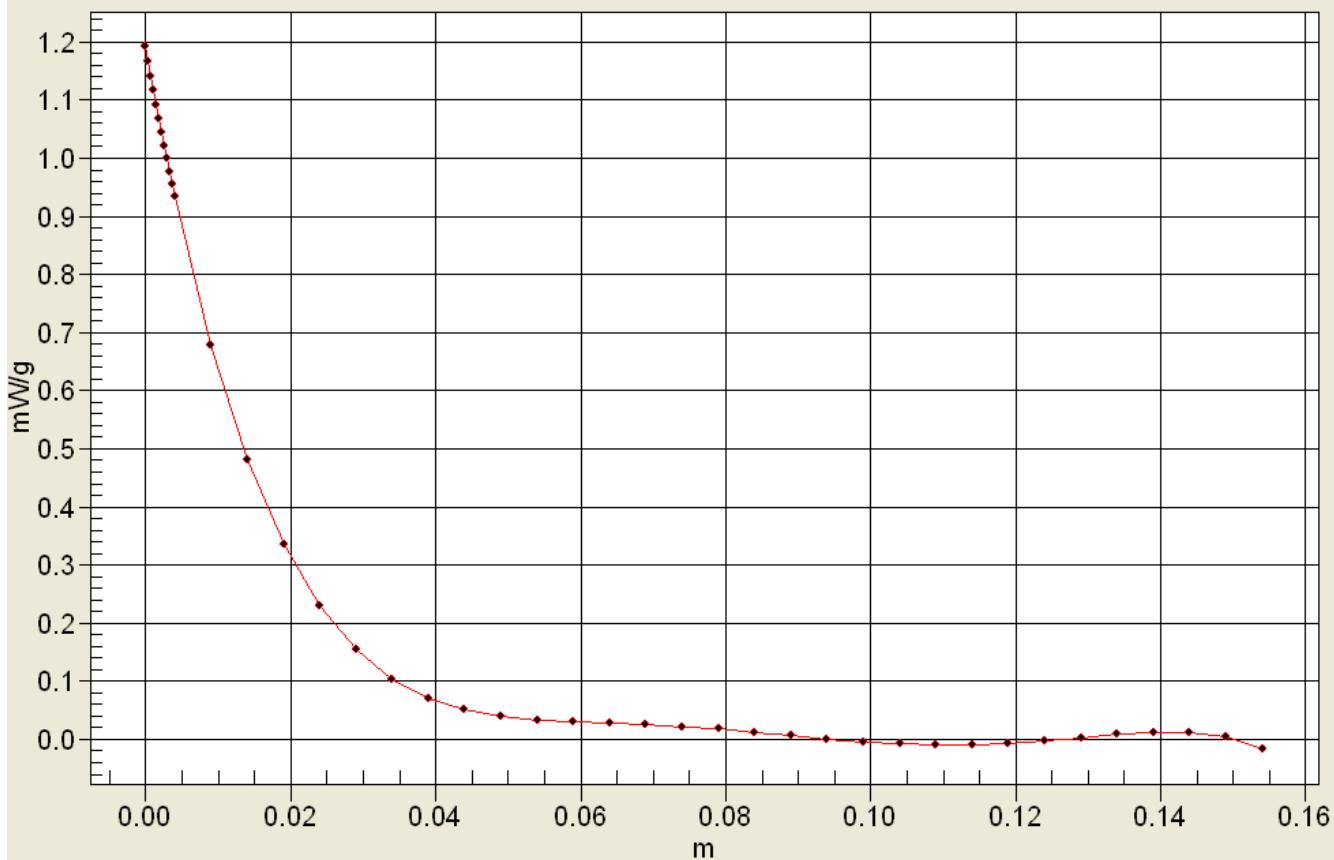
SAR(1 g) = 0.977 mW/g; SAR(10 g) = 0.638 mW/g

Maximum value of SAR (measured) = 1.06 mW/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: 08/13/2012

1800Mhz Validation @ 20dBm Probe 3078, DAE 675 and Dipole 220

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

 Medium: HSL1800, Medium parameters used (extrapolated): $f = 1800$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(5.22, 5.22, 5.22), Calibrated: 7/19/2012

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

Electronics: DAE4 Sn675, Calibrated: 5/23/2012

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

1800MHz Validation @20dBm/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.32 mW/g

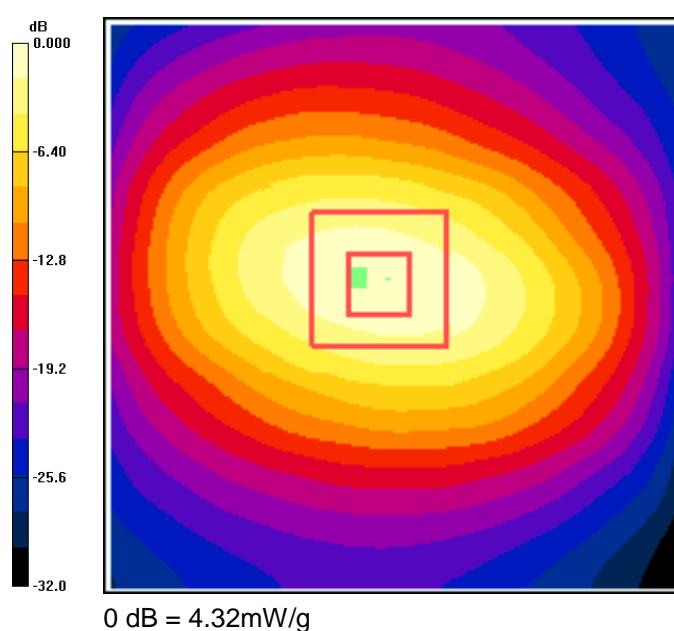
1800MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.6 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 6.92 W/kg

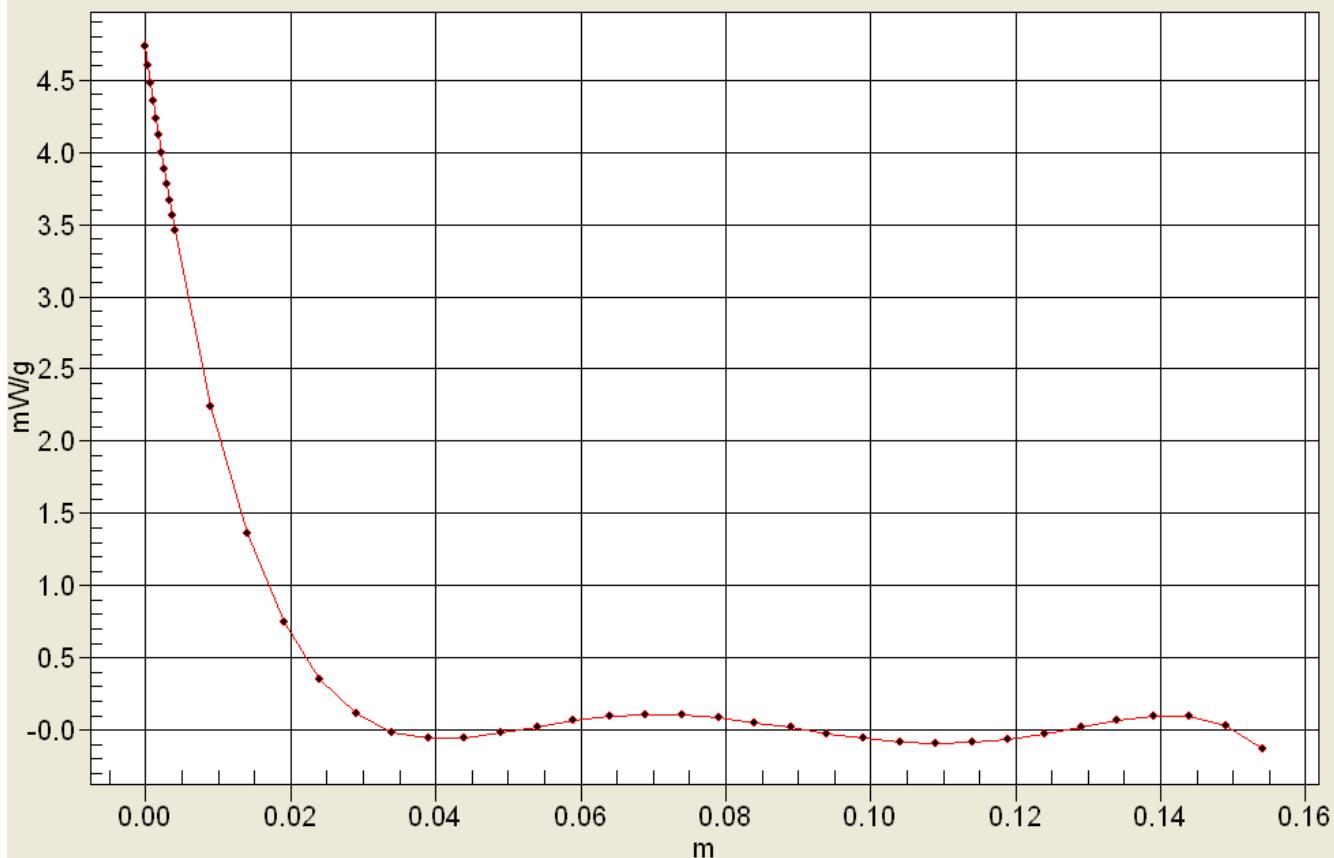
SAR(1 g) = 3.64 mW/g; SAR(10 g) = 1.85 mW/g

Maximum value of SAR (measured) = 4.08 mW/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: 08/09/2012

1900Mhz Validation @ 20dBm Probe 3078, DAE 675 and Dipole 5d016

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

 Medium: HSL1900, Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.97, 4.97, 4.97), Calibrated: 7/19/2012

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

Electronics: DAE4 Sn675, Calibrated: 5/23/2012

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

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

Maximum value of SAR (interpolated) = 4.87 mW/g

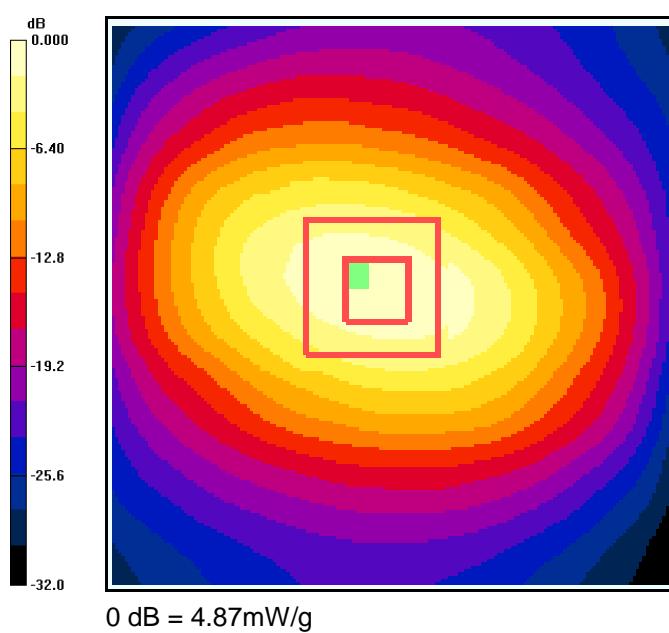
1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.8 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 7.65 W/kg

SAR(1 g) = 4.06 mW/g; SAR(10 g) = 2.08 mW/g

Maximum value of SAR (measured) = 4.47 mW/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

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Report #:	CT-S2150-9A-0812-R0

Test Laboratory: Comptest/Kyocera

Date: 08/13/2012

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

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

 Medium: M800, Medium parameters used: $f = 835$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

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: 9/27/2011

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

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

Maximum value of SAR (interpolated) = 1.08 mW/g

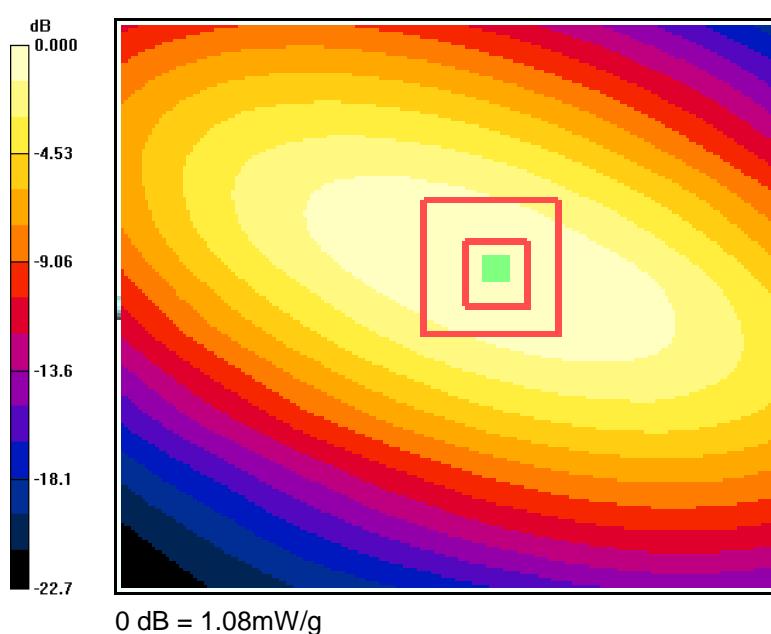
835MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.0 V/m; Power Drift = 0.184 dB

Peak SAR (extrapolated) = 1.46 W/kg

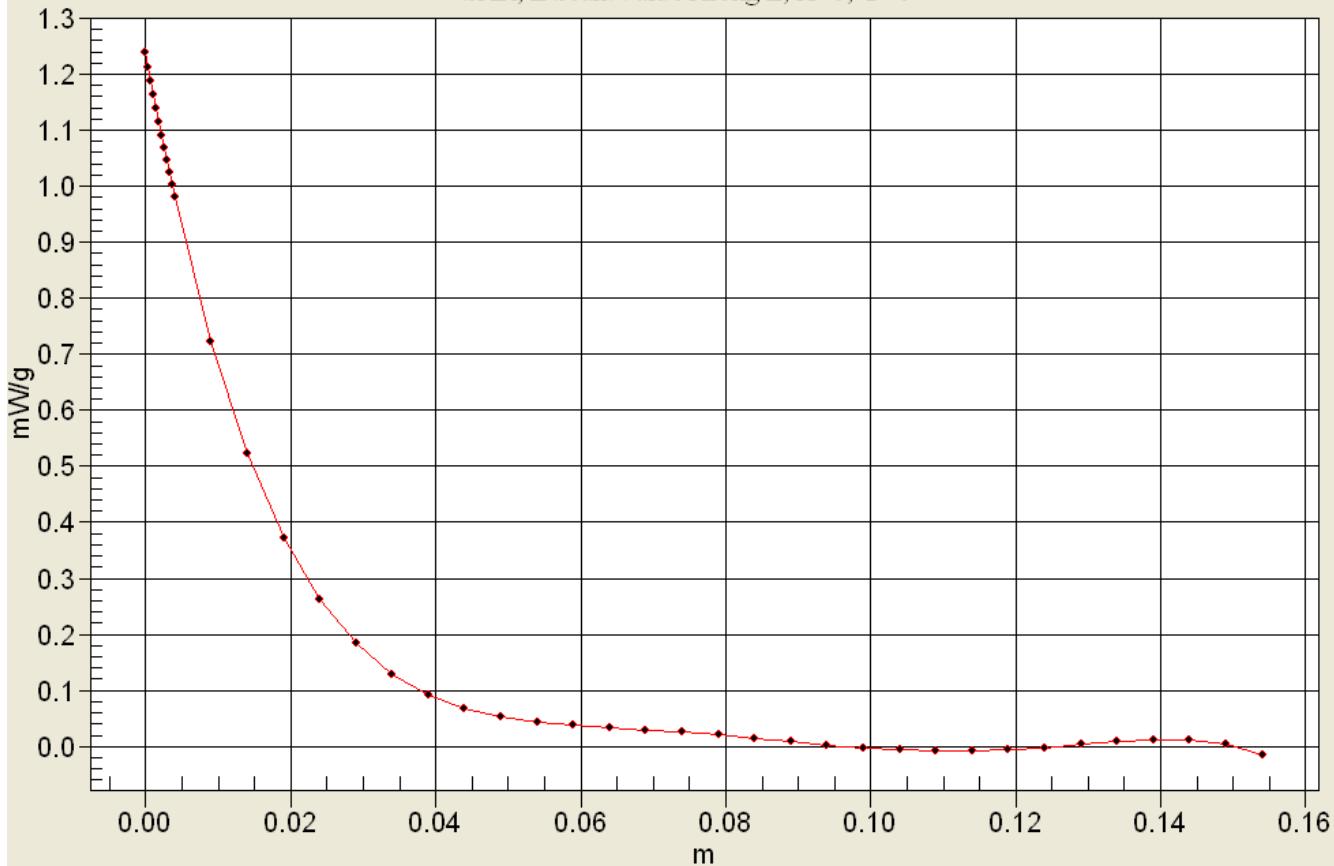
SAR(1 g) = 1 mW/g; SAR(10 g) = 0.664 mW/g

Maximum value of SAR (measured) = 1.08 mW/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: 08/15/2012

1800MHz Validation(Muscle), Probe #3036, DAE #603, Dipole #220

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

 Medium: M1800, Medium parameters used: $f = 1800$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(4.7, 4.7, 4.7), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603, Calibrated: 9/27/2011

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

1800MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 5.14 mW/g

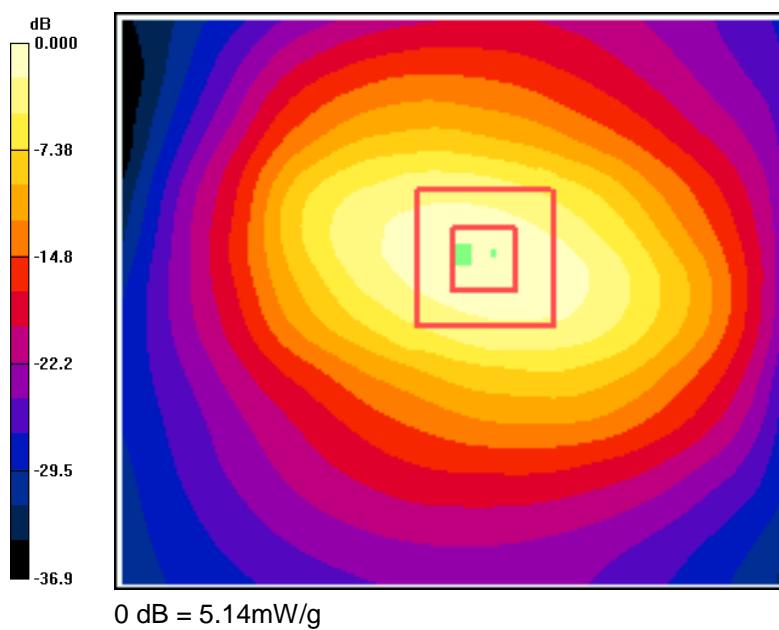
1800MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 46.3 V/m; Power Drift = 0.134 dB

Peak SAR (extrapolated) = 7.56 W/kg

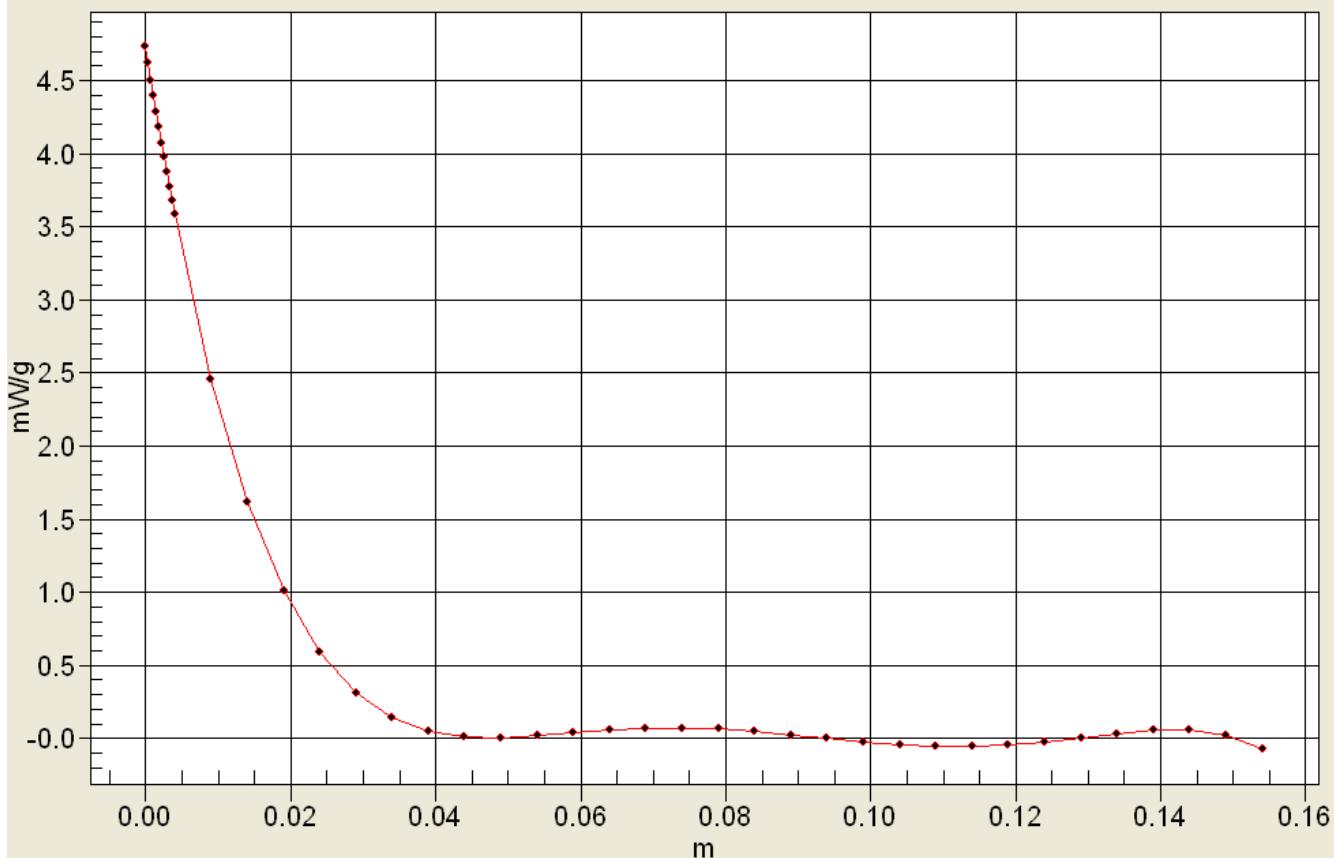
SAR(1 g) = 4.22 mW/g; SAR(10 g) = 2.24 mW/g

Maximum value of SAR (measured) = 4.70 mW/g



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Test Laboratory: Comptest/Kyocera

Date: 08/14/2012

1900Mhz Validation (Muscle) @ 20dBm Probe 3078, DAE 675 and Dipole 5d016

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

 Medium: M1800, Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.55, 4.55, 4.55), Calibrated: 7/19/2012

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

Electronics: DAE4 Sn675, Calibrated: 5/23/2012

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

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

Maximum value of SAR (interpolated) = 4.78 mW/g

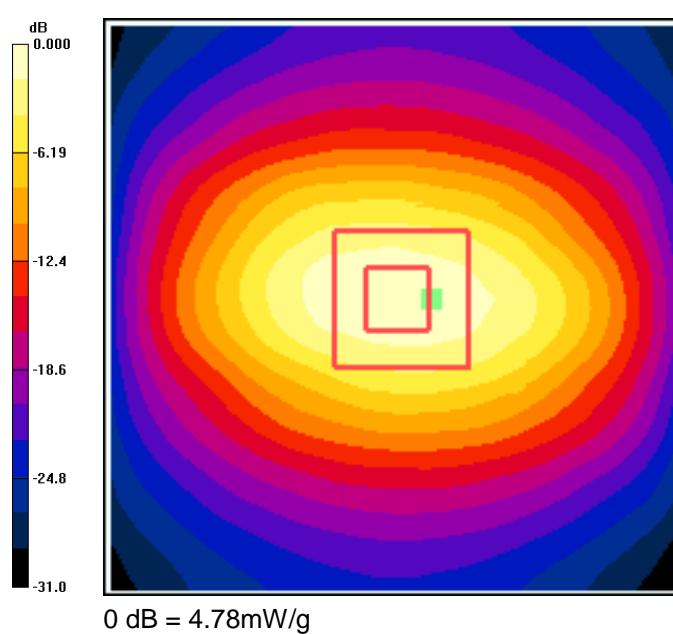
1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.5 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 7.28 W/kg

SAR(1 g) = 4.07 mW/g; SAR(10 g) = 2.13 mW/g

Maximum value of SAR (measured) = 4.68 mW/g



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

