Validation for BODY

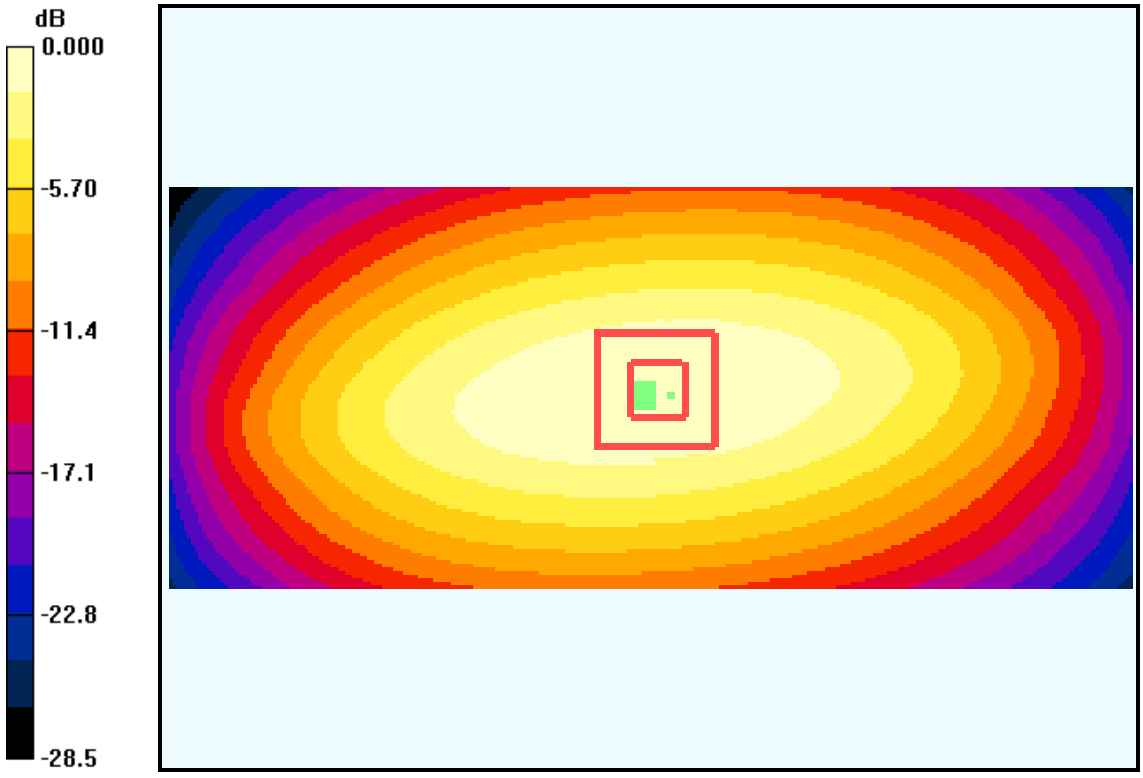
Test Laboratory: Comptest/Kyocera

835MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #4d019
Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: M800,Medium parameters used: f = 835 MHz; σ = 0.95 mho/m; ε_r = 54.4; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section

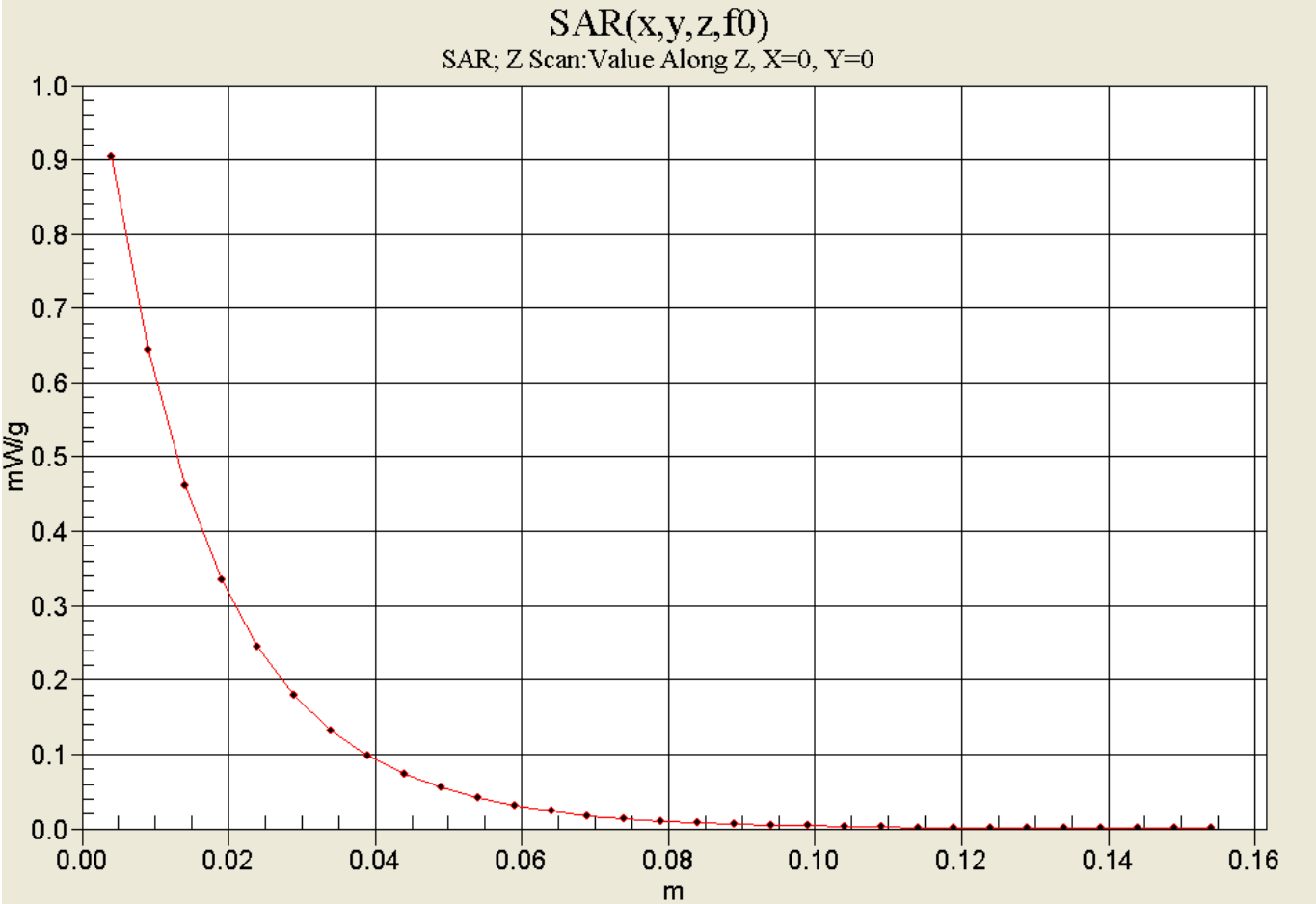
DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(5.82, 5.82, 5.82), Calibrated: 7/14/2010
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn602,Calibrated: 7/14/2010
Measurement SW: DASY4, V4.7 Build 80
Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature:
Room T = 21.8 ± 1 deg C, Liquid T = 22.0 ± 1 deg C

835MHz/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.03 mW/g

835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.0 V/m; Power Drift = 0.056 dB
Peak SAR (extrapolated) = 1.40 W/kg
SAR(1 g) = 0.964 mW/g; SAR(10 g) = 0.639 mW/g
Maximum value of SAR (measured) = 1.03 mW/g



0 dB = 1.03mW/g



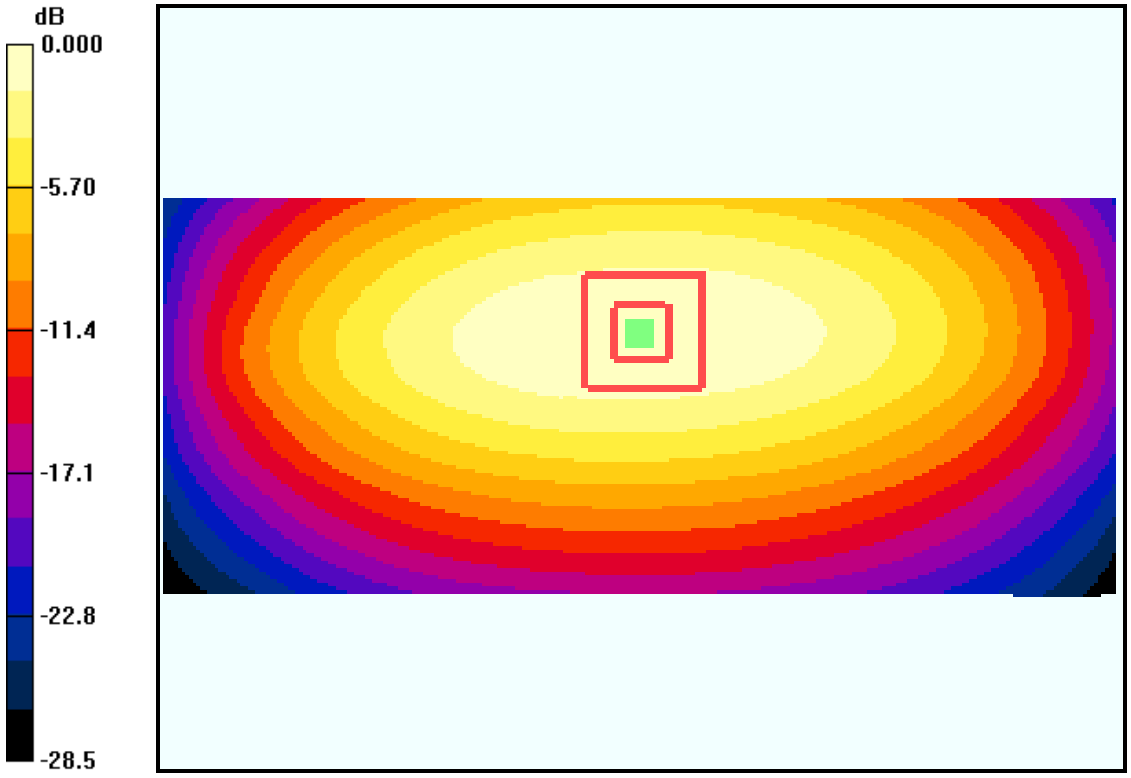
Test Laboratory: Comptest/Kyocera

835MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #4d019
Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: M800,Medium parameters used: f = 835 MHz; σ = 0.94 mho/m; ε_r = 54.4; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section

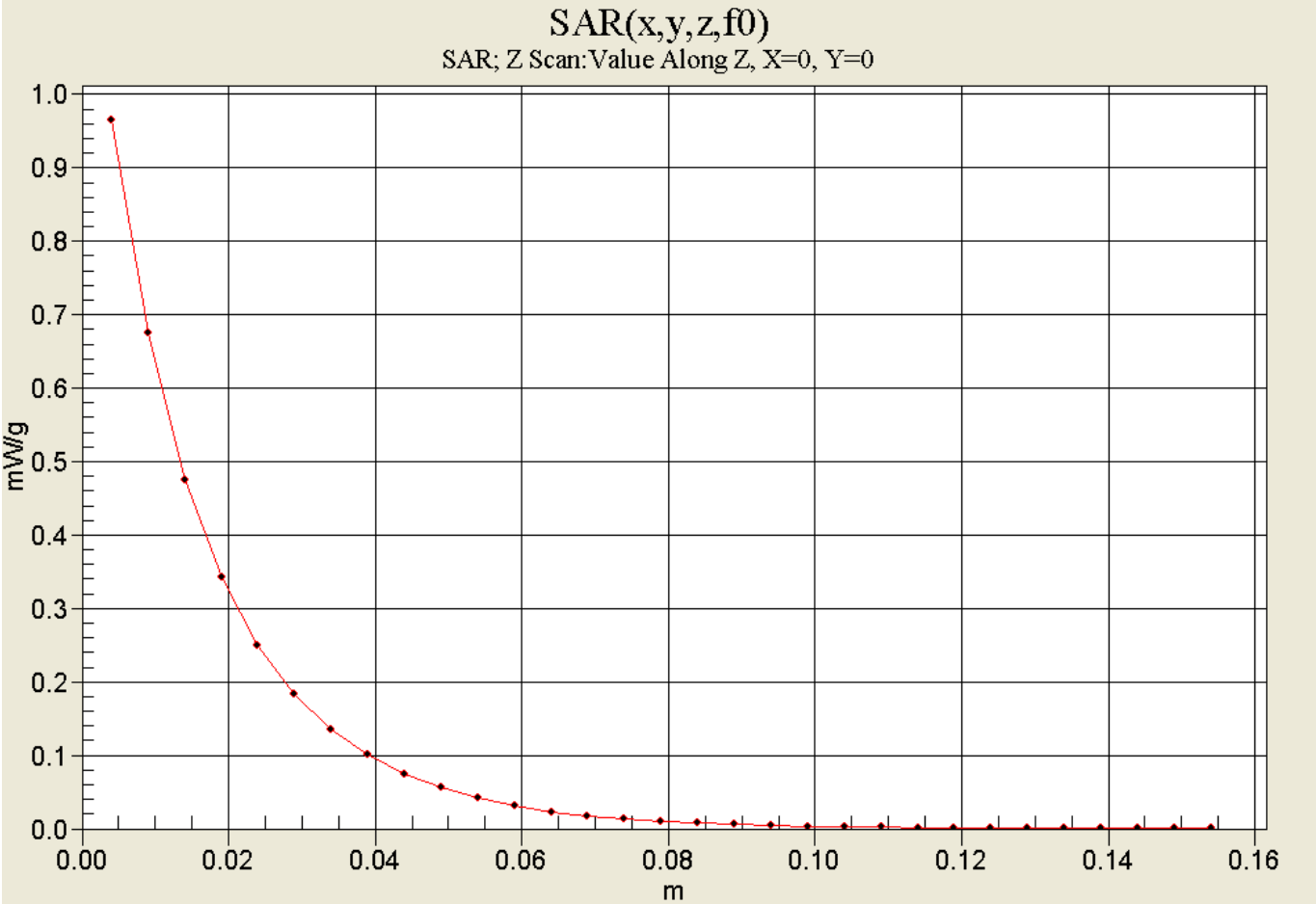
DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(5.82, 5.82, 5.82), Calibrated: 7/14/2010
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn602,Calibrated: 7/14/2010
Measurement SW: DASY4, V4.7 Build 80
Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature:
Room T = 21.8 1 deg C, Liquid T = 22.0 1 deg C

835MHz/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.02 mW/g

835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.4 V/m; Power Drift = 0.049 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.950 mW/g; SAR(10 g) = 0.628 mW/g
Maximum value of SAR (measured) = 1.03 mW/g



0 dB = 1.03mW/g

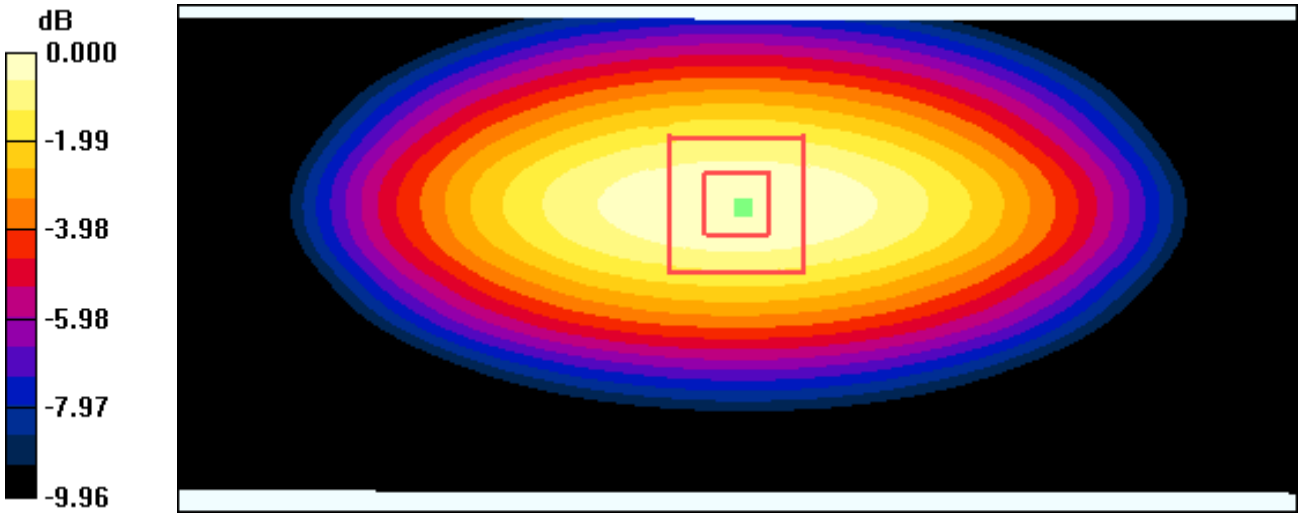


Test Laboratory: Comptest/Kyocera

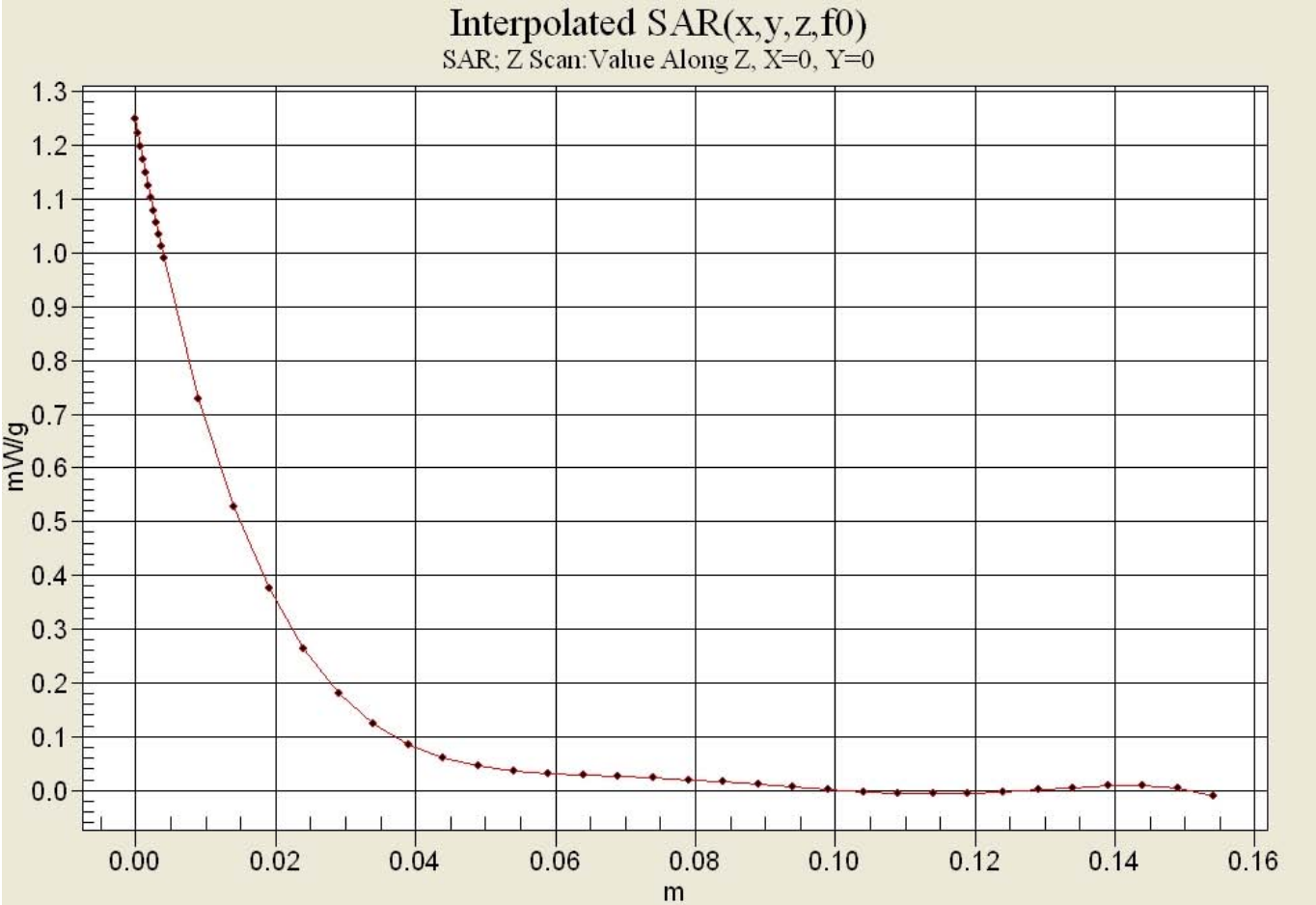
835MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #4d019
Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: M800,Medium parameters used: f = 835 MHz; σ = 0.94 mho/m; ε_r = 54.4; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section
DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(5.82, 5.82, 5.82), Calibrated: 7/14/2010
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn602,Calibrated: 7/14/2010
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) = 1.03 mW/g

835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 32.0 V/m; Power Drift = 0.024 dB
Peak SAR (extrapolated) = 1.40 W/kg
SAR(1 g) = 0.957 mW/g; SAR(10 g) = 0.633 mW/g
Maximum value of SAR (measured) = 1.03 mW/g



0 dB = 1.03mW/g

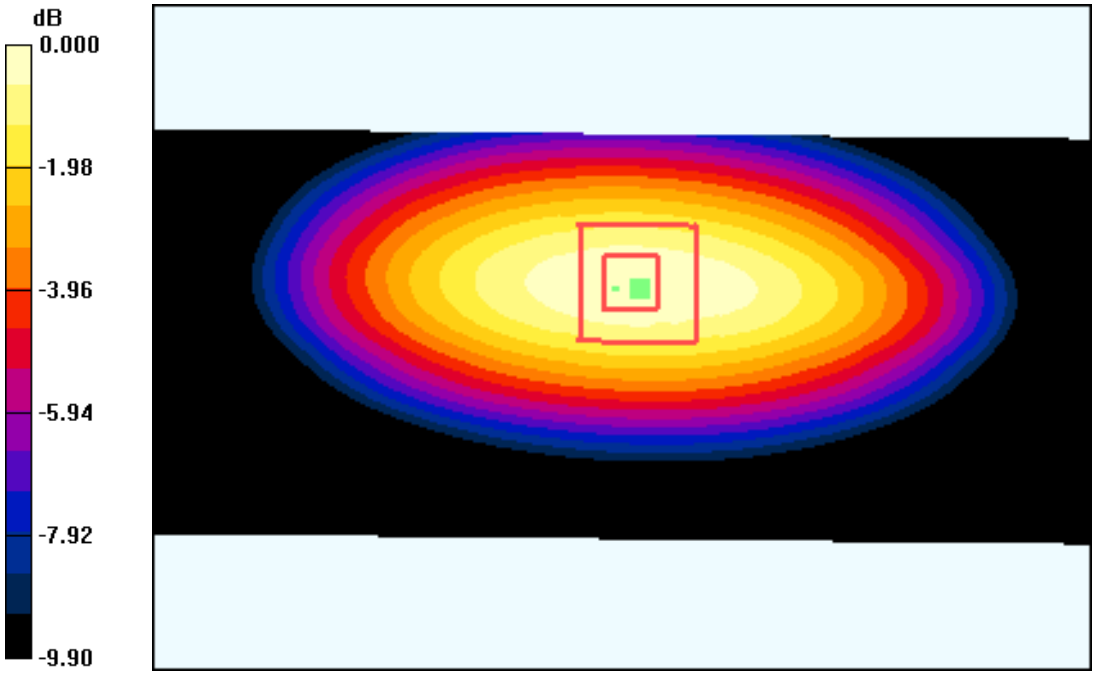


Test Laboratory: Comptest/Kyocera

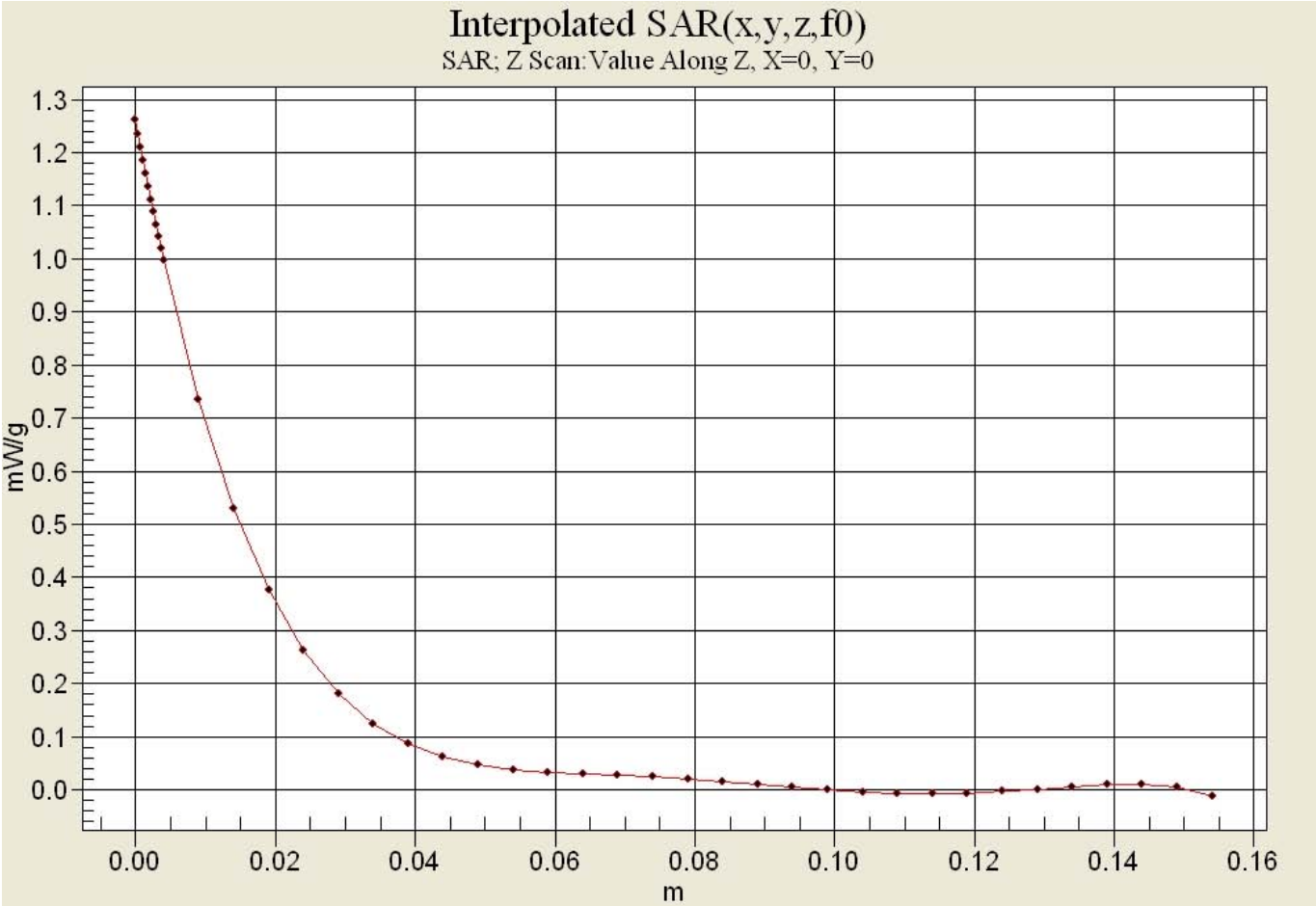
835MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #4d019
Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: M800,Medium parameters used: f = 835 MHz; σ = 0.94 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section
DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(5.82, 5.82, 5.82), Calibrated: 7/14/2010
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn602,Calibrated: 7/14/2010
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 = 31.4 V/m; Power Drift = 0.028 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 0.967 mW/g; SAR(10 g) = 0.640 mW/g
Maximum value of SAR (measured) = 1.04 mW/g



0 dB = 1.04mW/g



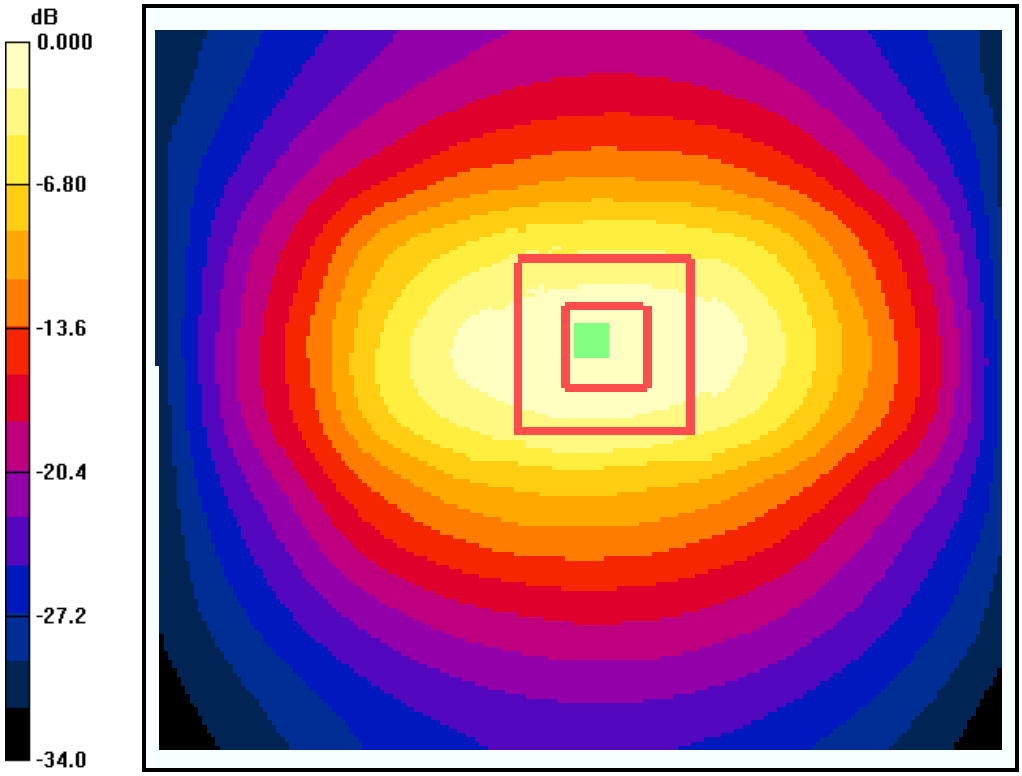
Test Laboratory: Comptest/Kyocera

1900MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #5d016
Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: M1900,Medium parameters used (interpolated): f = 1900 MHz; σ = 1.54 mho/m; ε_r = 51.3; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section

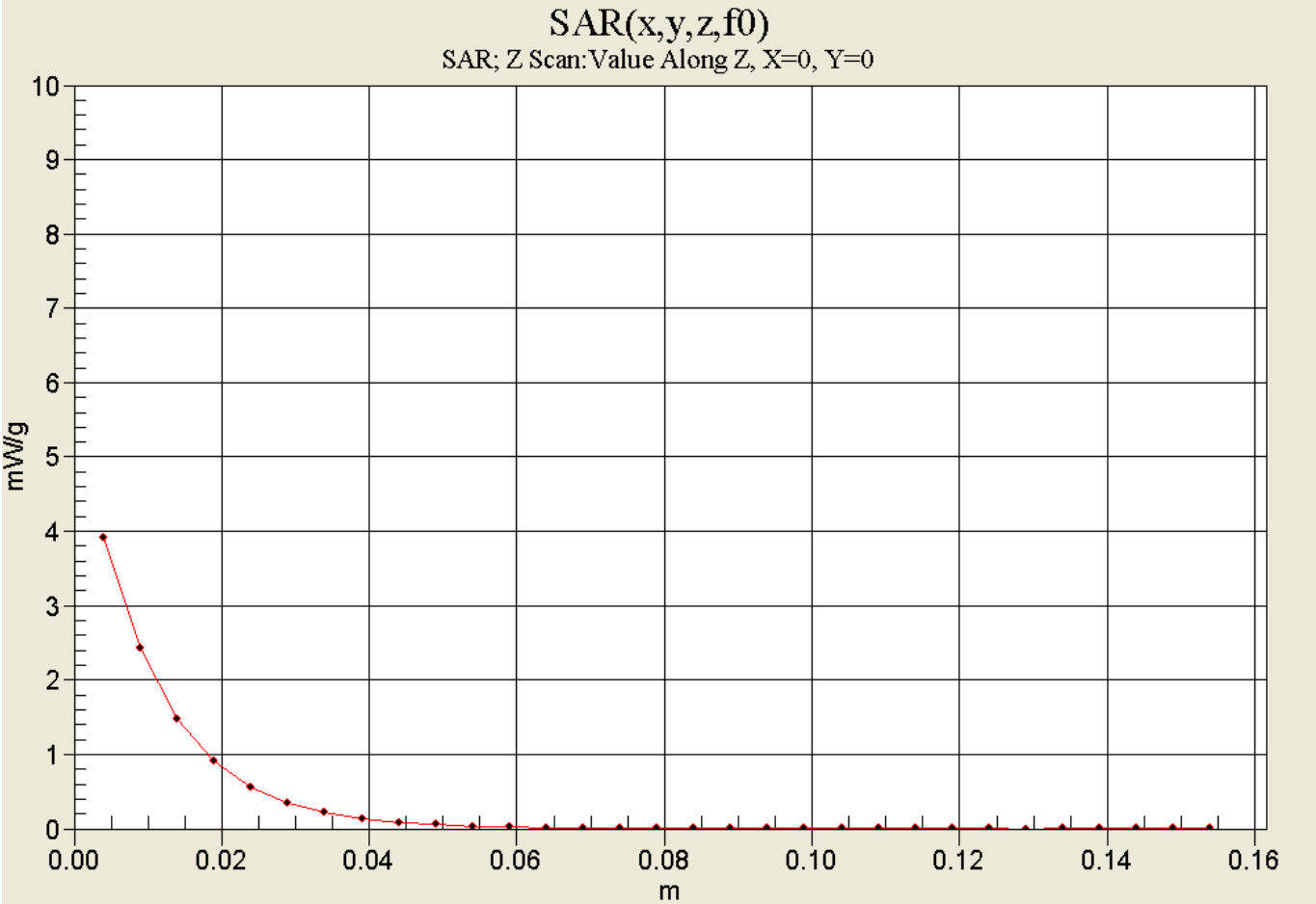
DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(4.5, 4.5, 4.5), Calibrated: 7/14/2010
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn602,Calibrated: 7/14/2010
Measurement SW: DASY4, V4.7 Build 80
Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature:
Room T = 21.8 1 deg C, Liquid T = 22.0 1 deg C

1900MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 5.27 mW/g

1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.1 V/m; Power Drift = 0.133 dB
Peak SAR (extrapolated) = 7.26 W/kg
SAR(1 g) = 4.19 mW/g; SAR(10 g) = 2.19 mW/g
Maximum value of SAR (measured) = 4.74 mW/g



0 dB = 4.74mW/g



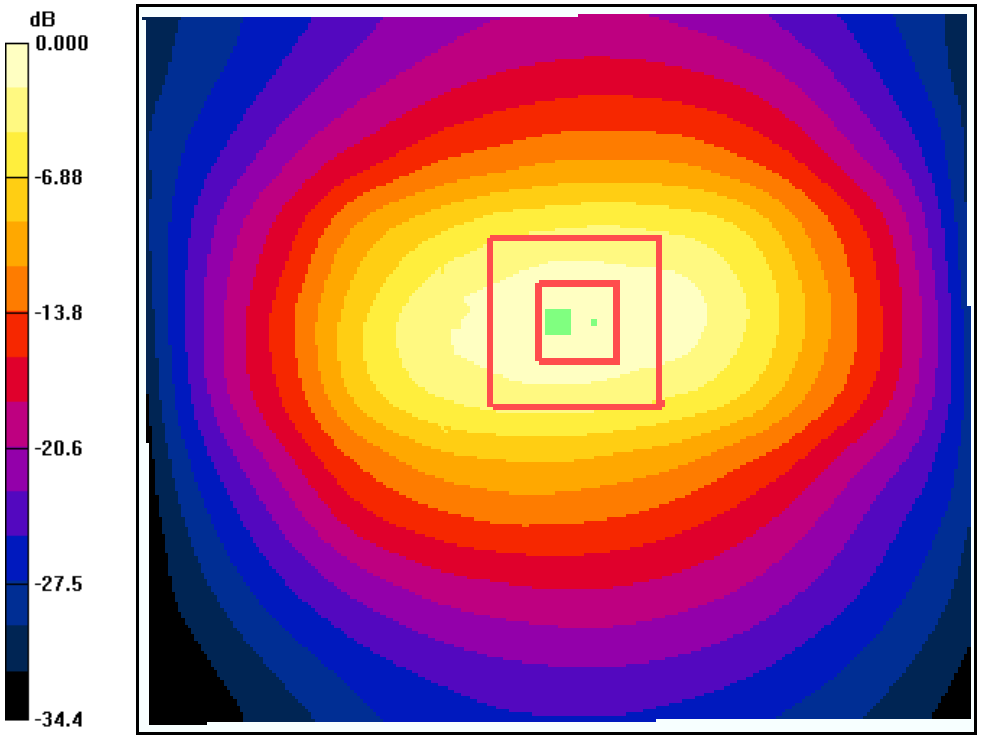
Test Laboratory: Comptest/Kyocera

1900MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #5d016
Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: M1900,Medium parameters used (interpolated): f = 1900 MHz; σ = 1.53 mho/m; ε_r = 51.1; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section

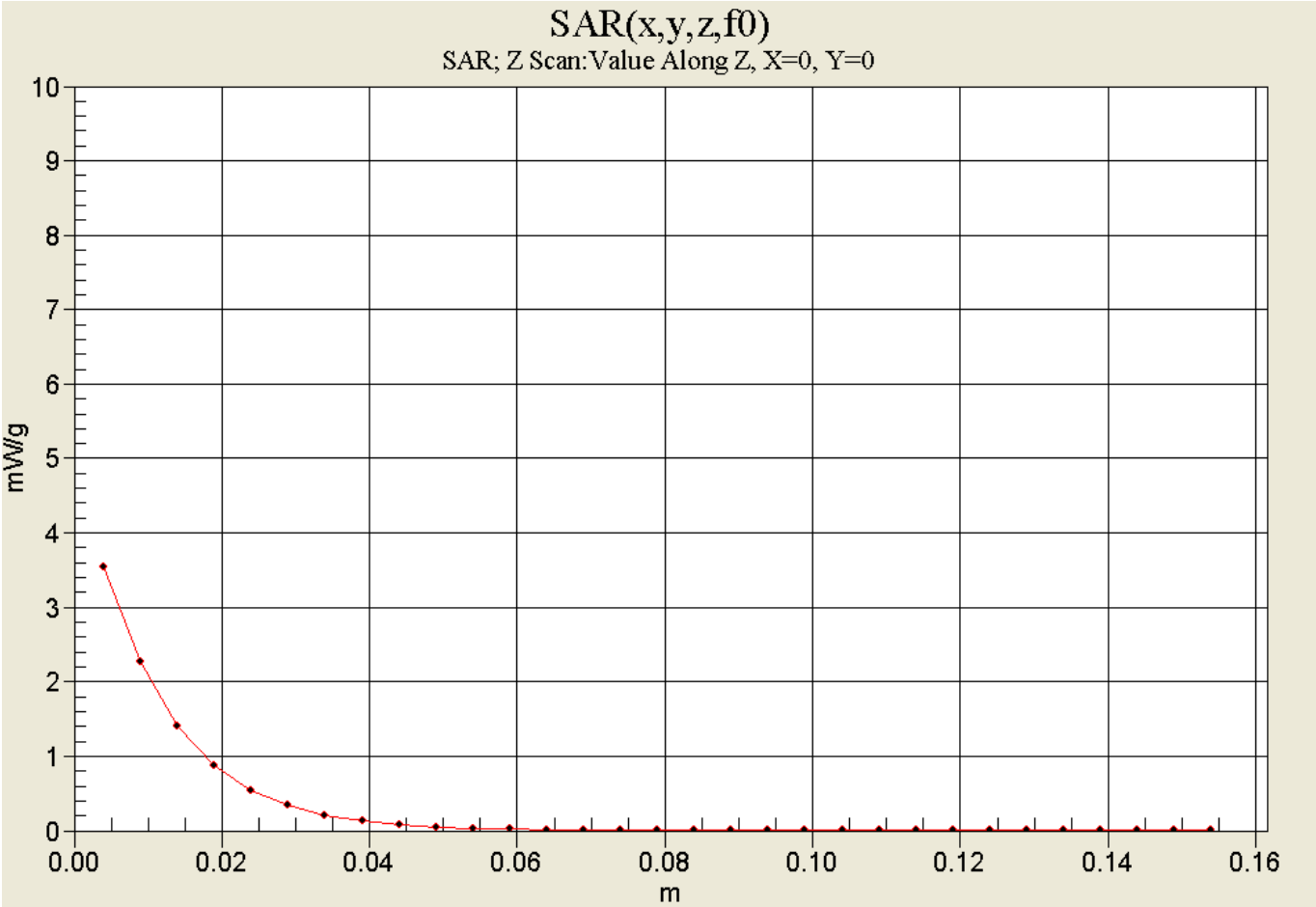
DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(4.5, 4.5, 4.5), Calibrated: 7/14/2010
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn602,Calibrated: 7/14/2010
Measurement SW: DASY4, V4.7 Build 80
Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature:
Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

1900MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 5.48 mW/g

1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.6 V/m; Power Drift = 0.090 dB
Peak SAR (extrapolated) = 7.24 W/kg
SAR(1 g) = 4.22 mW/g; SAR(10 g) = 2.23 mW/g
Maximum value of SAR (measured) = 4.78 mW/g



0 dB = 5.48mW/g



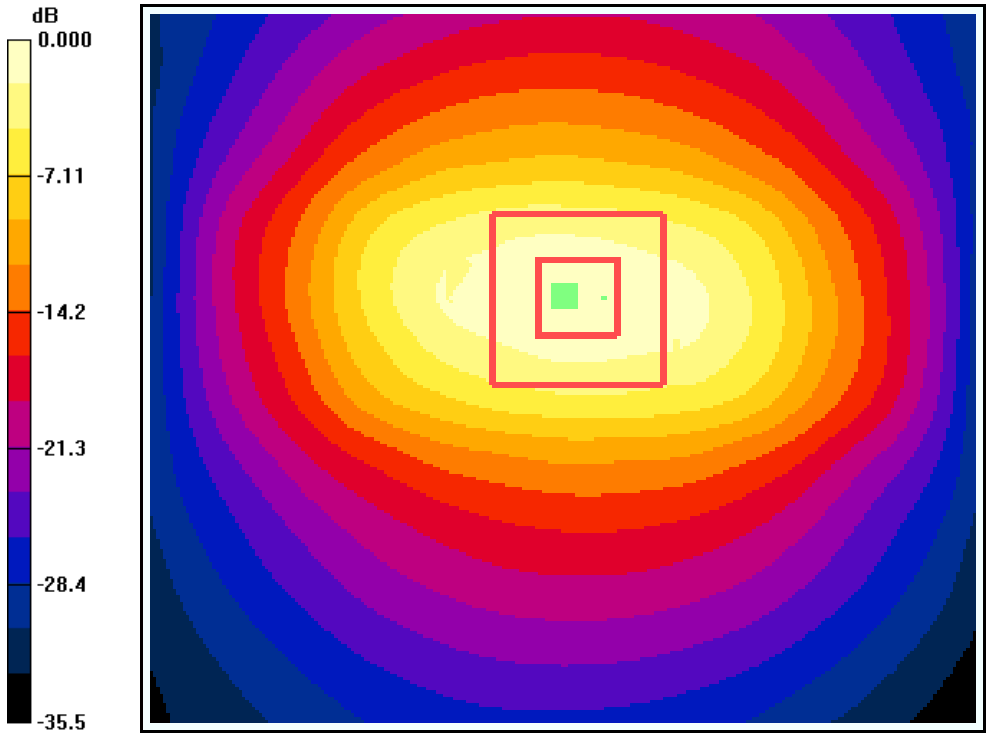
Test Laboratory: Comptest/Kyocera

1900MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #5d016
Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: M1900,Medium parameters used (interpolated): f = 1900 MHz; σ = 1.54 mho/m; ε_r = 51.2; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section

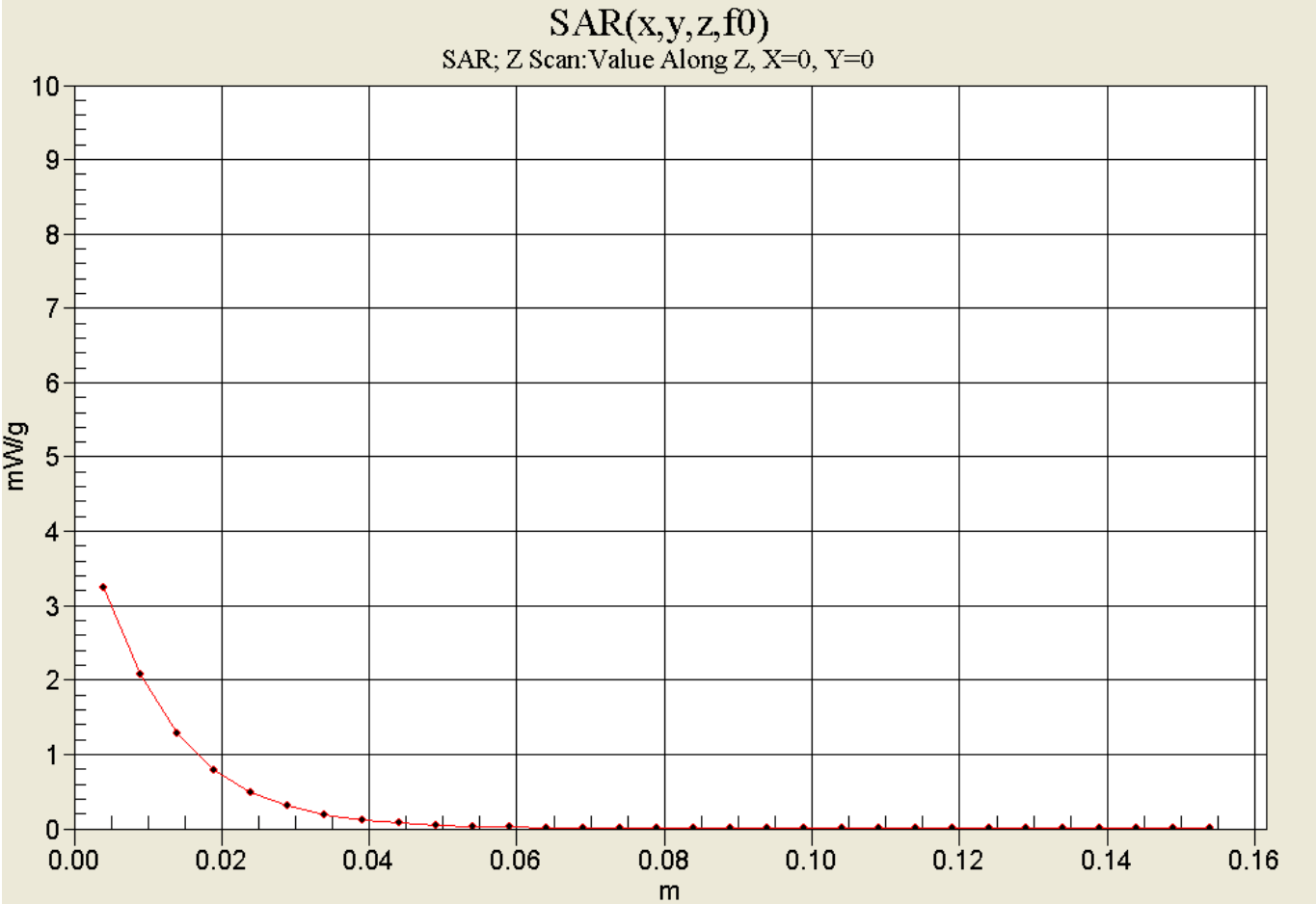
DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(4.5, 4.5, 4.5), Calibrated: 7/14/2010
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn602,Calibrated: 7/14/2010
Measurement SW: DASY4, V4.7 Build 80
Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature:
Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

1900MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 5.37 mW/g

1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 42.8 V/m; Power Drift = 0.017 dB
Peak SAR (extrapolated) = 7.14 W/kg
SAR(1 g) = 4.15 mW/g; SAR(10 g) = 2.19 mW/g
Maximum value of SAR (measured) = 4.69 mW/g



0 dB = 5.37mW/g



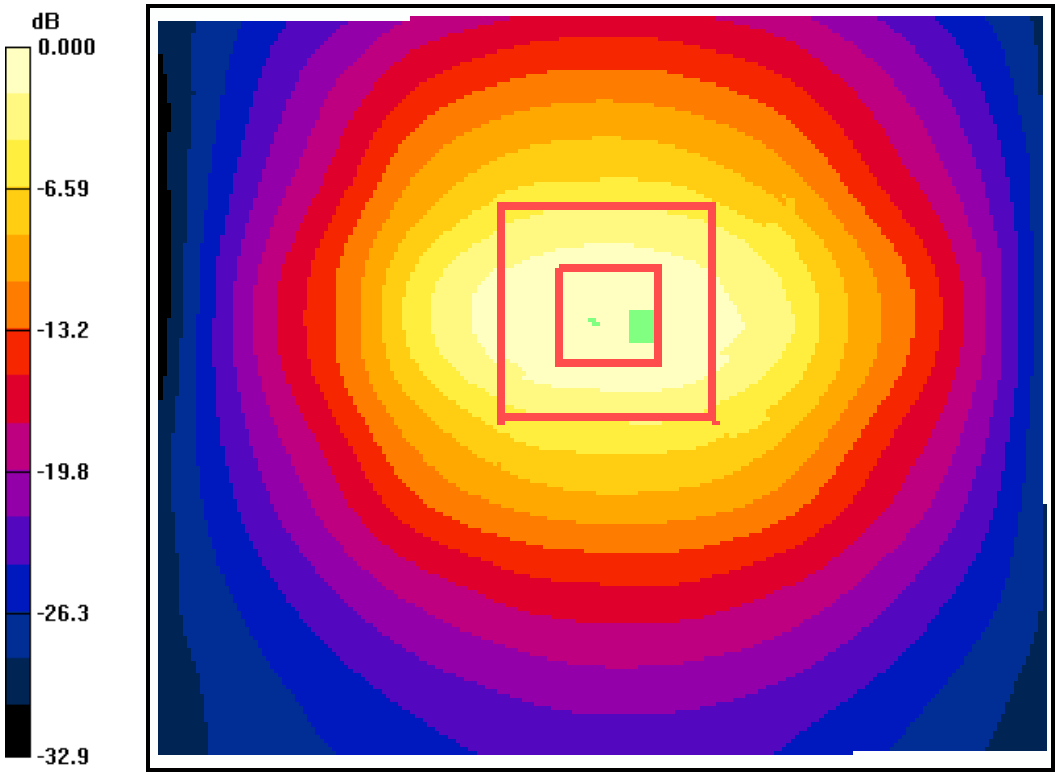
Test Laboratory: Comptest/Kyocera

2450Mhz Validation (Muscle) @ 20dBm Probe 3078, DAE 602 and Dipole 776
Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1
Medium: M2450,Medium parameters used (interpolated): f = 2450 MHz; σ = 2.03 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section

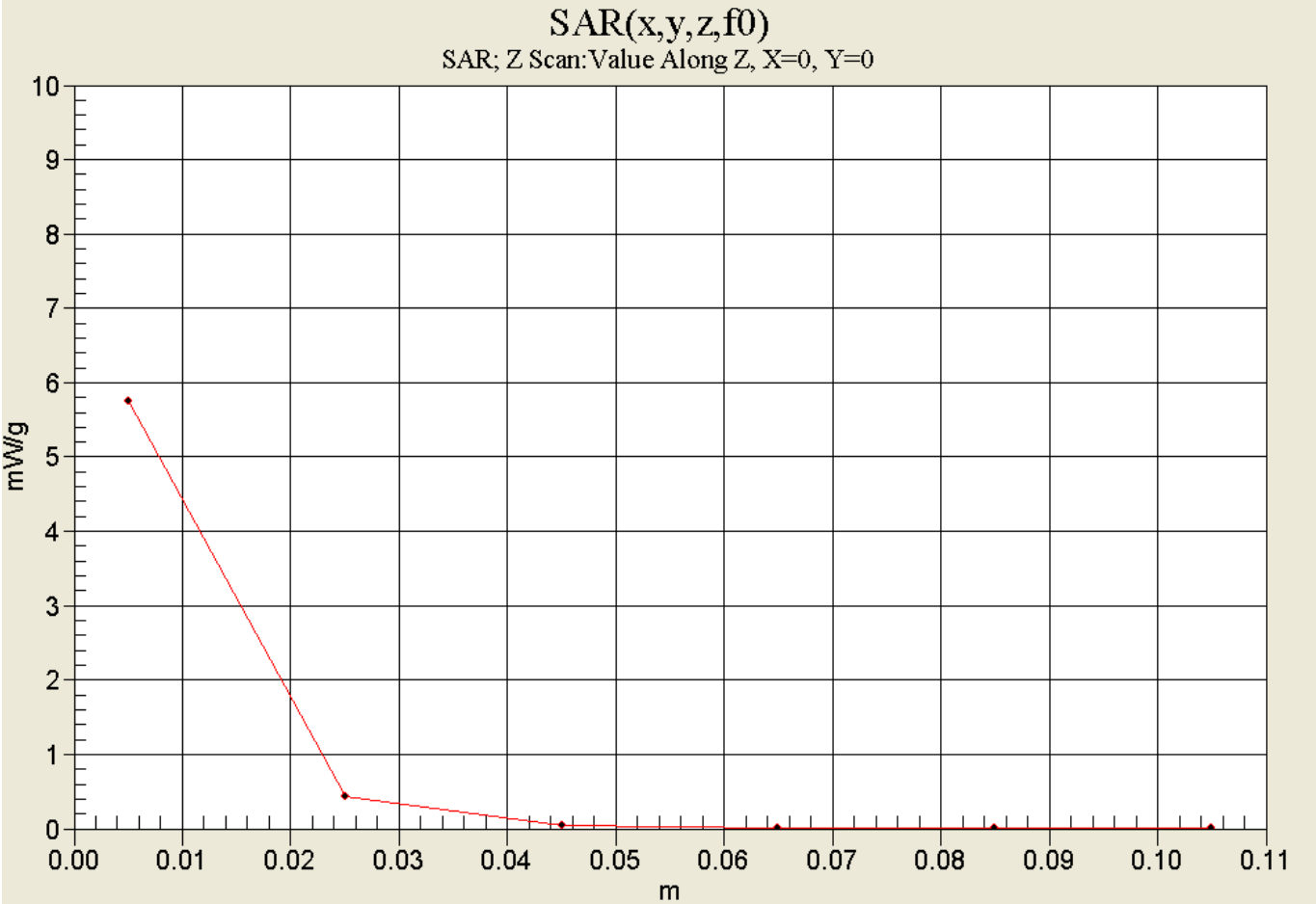
DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(4.13, 4.13, 4.13), Calibrated: 6/22/2009
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn602,Calibrated: 7/14/2010
Measurement SW: DASY4, V4.7 Build 80
Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature:
Room T = 21.8 1 deg C, Liquid T = 22.0 1 deg C

2450MHz Validation @20dBm/Area Scan (51x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 6.61 mW/g

2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.5 V/m; Power Drift = 0.027 dB
Peak SAR (extrapolated) = 12.0 W/kg
SAR(1 g) = 5.52 mW/g; SAR(10 g) = 2.49 mW/g
Maximum value of SAR (measured) = 6.30 mW/g



0 dB = 6.30mW/g



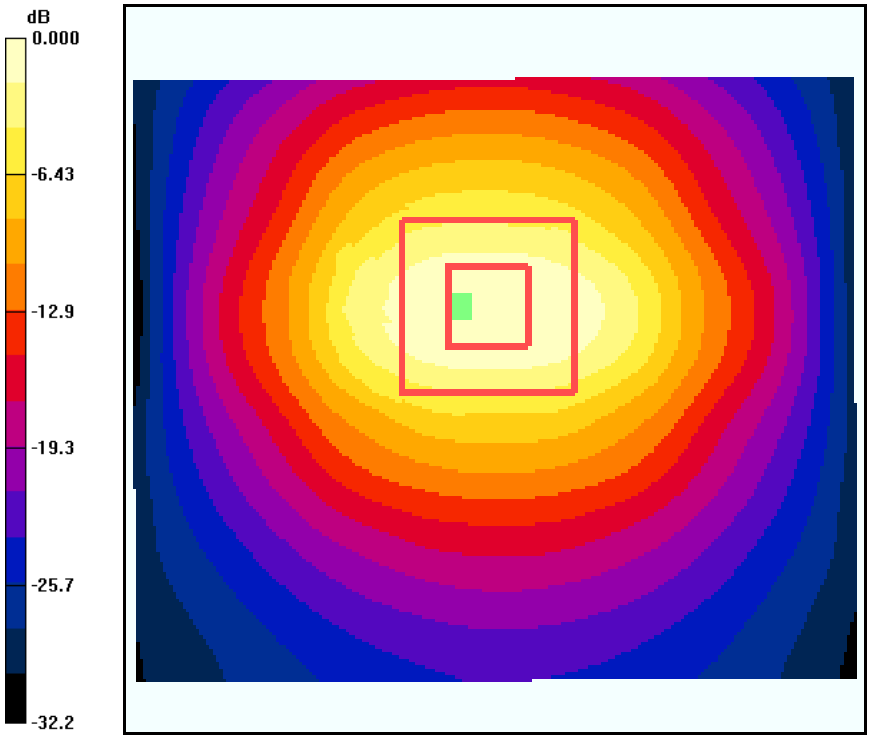
Test Laboratory: Comptest/Kyocera

2450Mhz Validation @ 20dBm Probe 3078, DAE 602 and Dipole 776
Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1
Medium: M2450,Medium parameters used (interpolated): f = 2450 MHz; σ = 2.04 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section

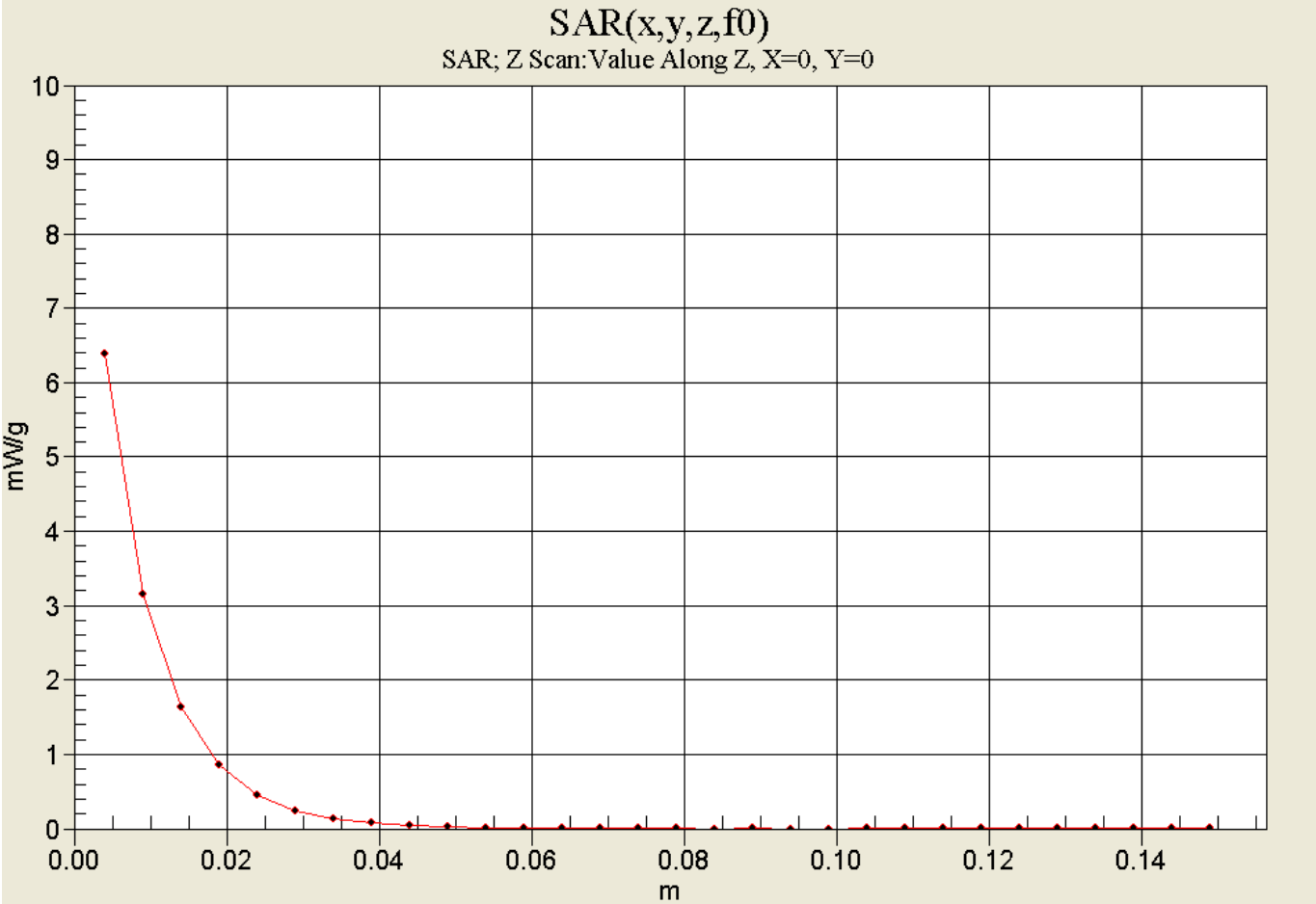
DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(4.13, 4.13, 4.13), Calibrated: 6/22/2009
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn602,Calibrated: 7/14/2010
Measurement SW: DASY4, V4.7 Build 80
Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature:
Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

2450MHz Validation @20dBm/Area Scan (51x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 6.61 mW/g

2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 47.8 V/m; Power Drift = 0.012 dB
Peak SAR (extrapolated) = 12.3 W/kg
SAR(1 g) = 5.69 mW/g; SAR(10 g) = 2.58 mW/g
Maximum value of SAR (measured) = 6.55 mW/g



0 dB = 6.55mW/g

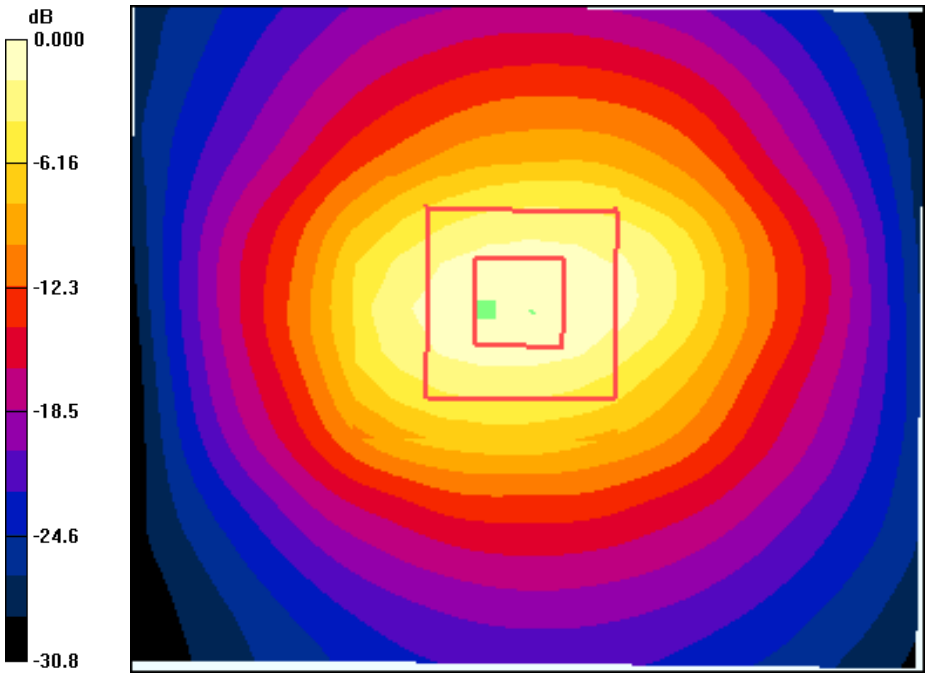


Test Laboratory: Comptest/Kyocera

2450Mhz Validation (Muscle) @ 20dBm Probe 3078, DAE 602 and Dipole 776
Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1
Medium: M2450,Medium parameters used (interpolated): f = 2450 MHz; σ = 2.04 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section
DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(4.13, 4.13, 4.13), Calibrated: 6/22/2009
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn602,Calibrated: 7/14/2010
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 (51x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 6.89 mW/g

2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.3 V/m; Power Drift = 0.003 dB
Peak SAR (extrapolated) = 11.8 W/kg
SAR(1 g) = 5.52 mW/g; SAR(10 g) = 2.5 mW/g
Maximum value of SAR (measured) = 6.34 mW/g



0 dB = 6.34mW/g