



Applicant:	Kyocera
FCC ID:	V65SCP-3810
Report #:	CT-V65-9A-0609-R0

EXHIBIT 9 APPENDIX A: SAR VALIDATION PLOTS

Applicant:	Kyocera
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Report #:	CT-V65-9A-0609-R0

Date: 5/27/2009

Test Laboratory: Comptest/Kyocera

1900MHz Validation @ 20dBm Probe 3035, DAE 602 and Dipole 5d016, 05-27-09

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

Medium: HSL1900, Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3035, ConvF(5.01, 5.01, 5.01), Calibrated: 8/25/2008

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

Electronics: DAE4 Sn602, Calibrated: 6/25/2008

Measurement SW: DASY4, V4.7 Build 71

Postprocessing SW: SEMCAD, V1.8 Build 184

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

1900MHz Validation @20dBm/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

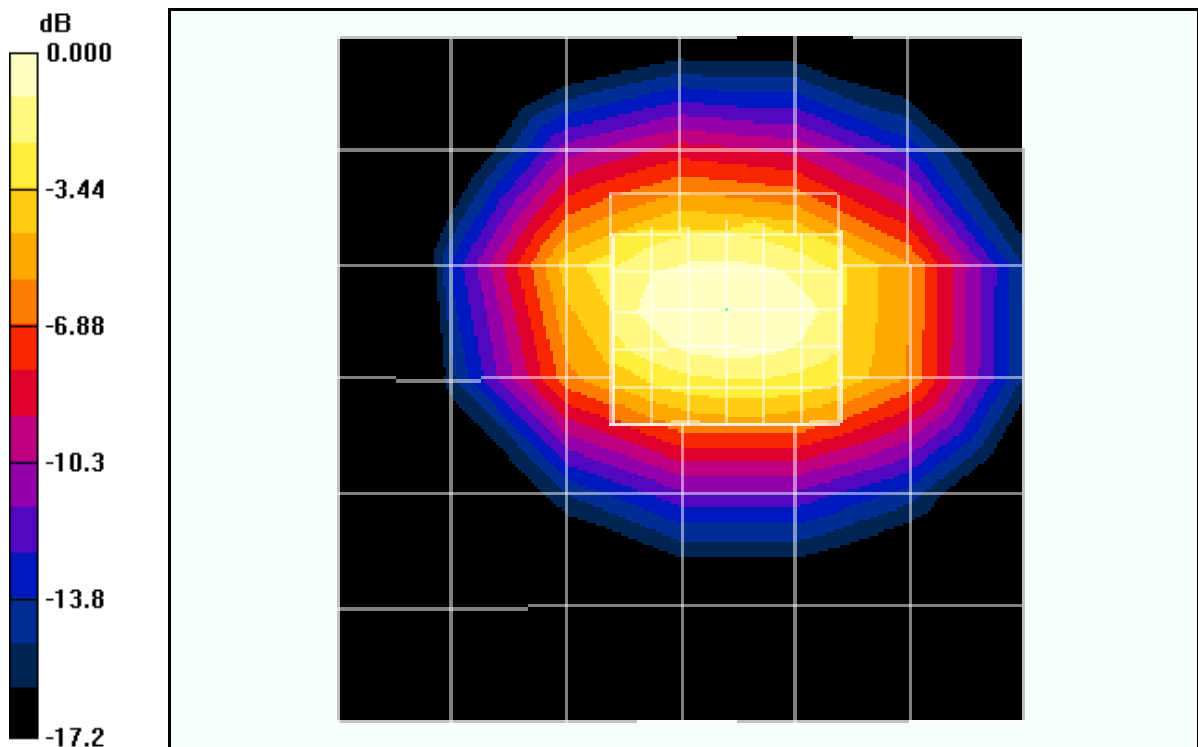
Maximum value of SAR (measured) = 3.61 mW/g

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

Reference Value = 42.6 V/m; Power Drift = 0.191 dB

Peak SAR (extrapolated) = 7.45 W/kg

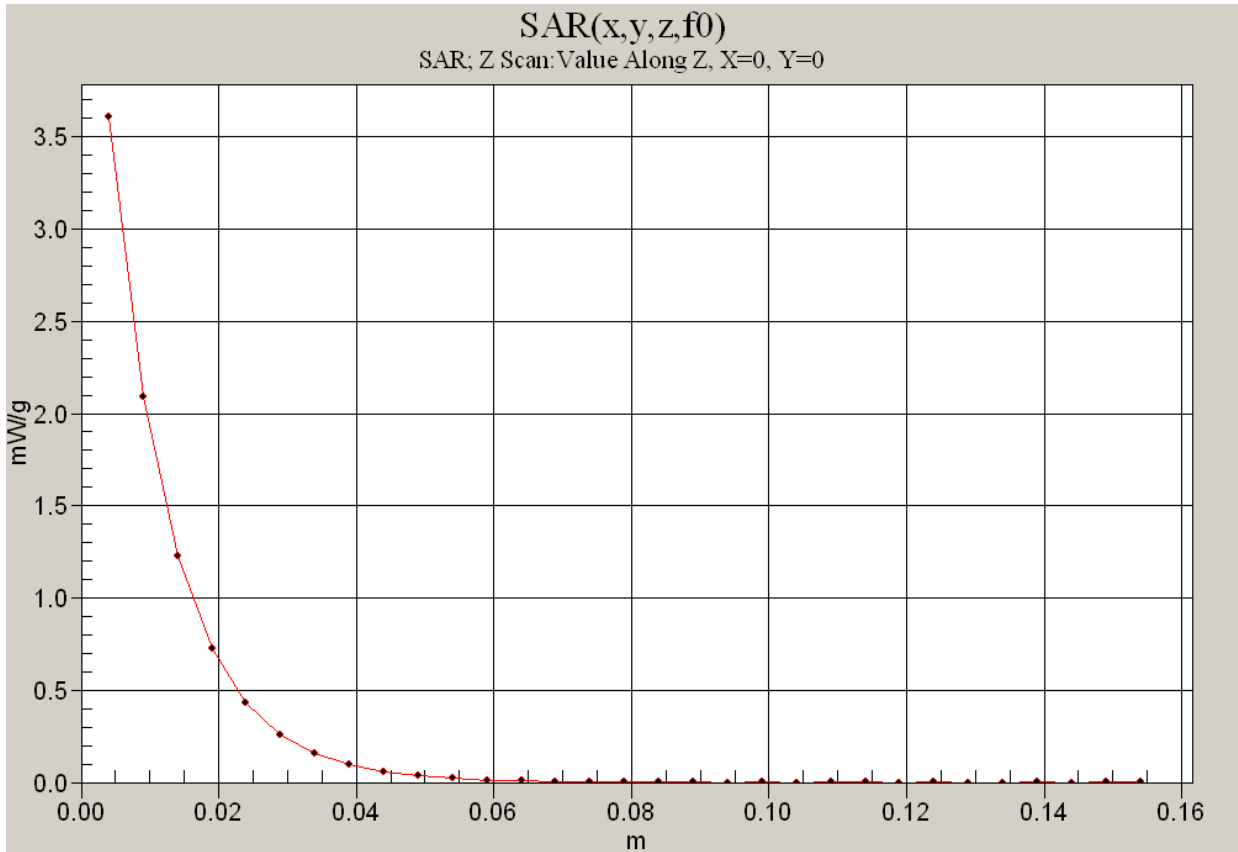
SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.08 mW/g



0 dB = 4.50mW/g



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Test Laboratory: Comptest/Kyocera
1900MHz Validation (In Muscle) Probe 1618, DAE 493 and Dipole 5d016, 05-29-09

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1

Medium: M1900, Medium parameters used: $f = 1880$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(4.57, 4.57, 4.57), Calibrated: 8/25/2008

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

Electronics: DAE3 Sn493, Calibrated: 9/17/2008

Measurement SW: DASY4, V4.7 Build 71

Postprocessing SW: SEMCAD, V1.8 Build 184

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

1900Mhz/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

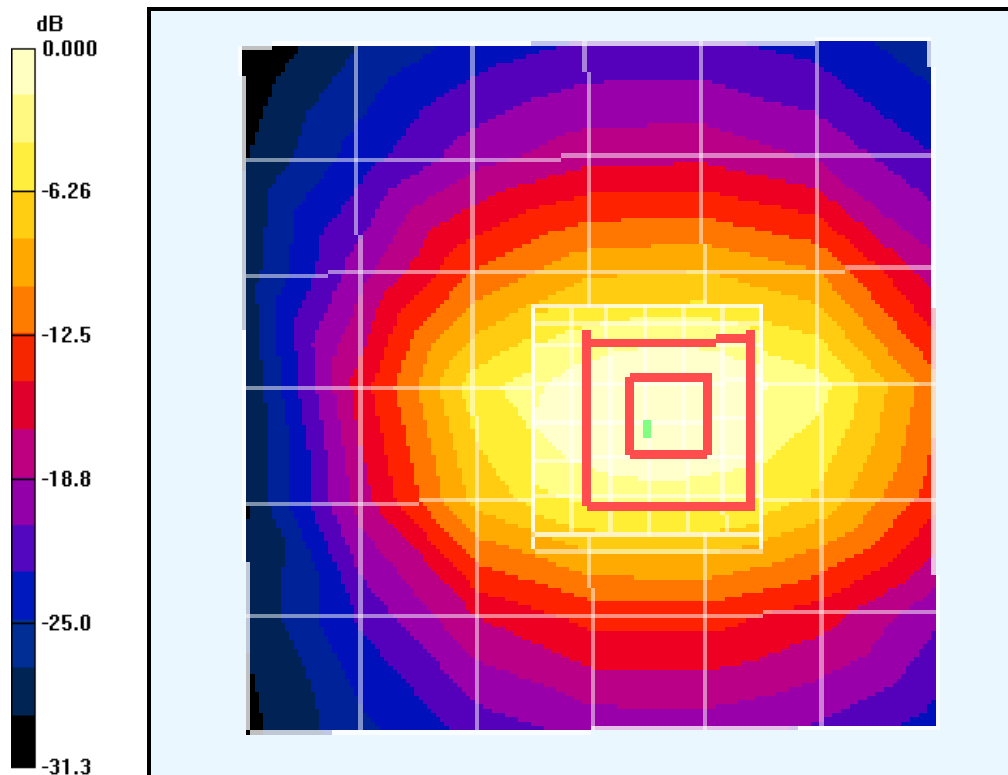
Maximum value of SAR (measured) = 3.95 mW/g

1900Mhz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.0 V/m; Power Drift = 0.223 dB

Peak SAR (extrapolated) = 7.23 W/kg

SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.12 mW/g



0 dB = 4.40mW/g

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Date: 5/28/2009

Test Laboratory: Comptest/Kyocera
835MHz Validation @ 20dbm, Probe #3036, DAE#527, Dipole #467, 05-28-09

DUT: Dipole 835 MHz

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

Medium: Head 835 MHz, Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(6.09, 6.09, 6.09), Calibrated: 9/18/2008

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

Electronics: DAE4 Sn527, Calibrated: 8/14/2008

Measurement SW: DASY4, V4.7 Build 71

Postprocessing SW: SEMCAD, V1.8 Build 184

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

835MHz Validation/Area Scan (7x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

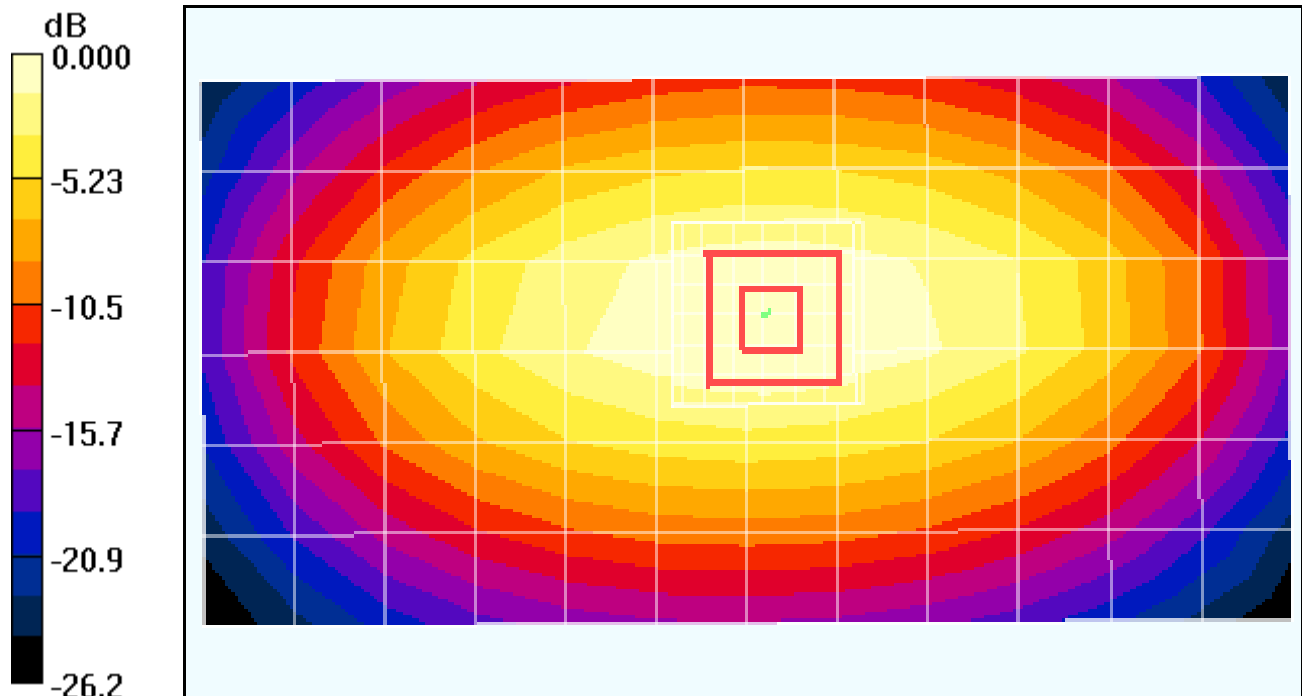
Maximum value of SAR (measured) = 0.971 mW/g

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

Reference Value = 33.7 V/m; Power Drift = -0.105 dB

Peak SAR (extrapolated) = 1.41 W/kg

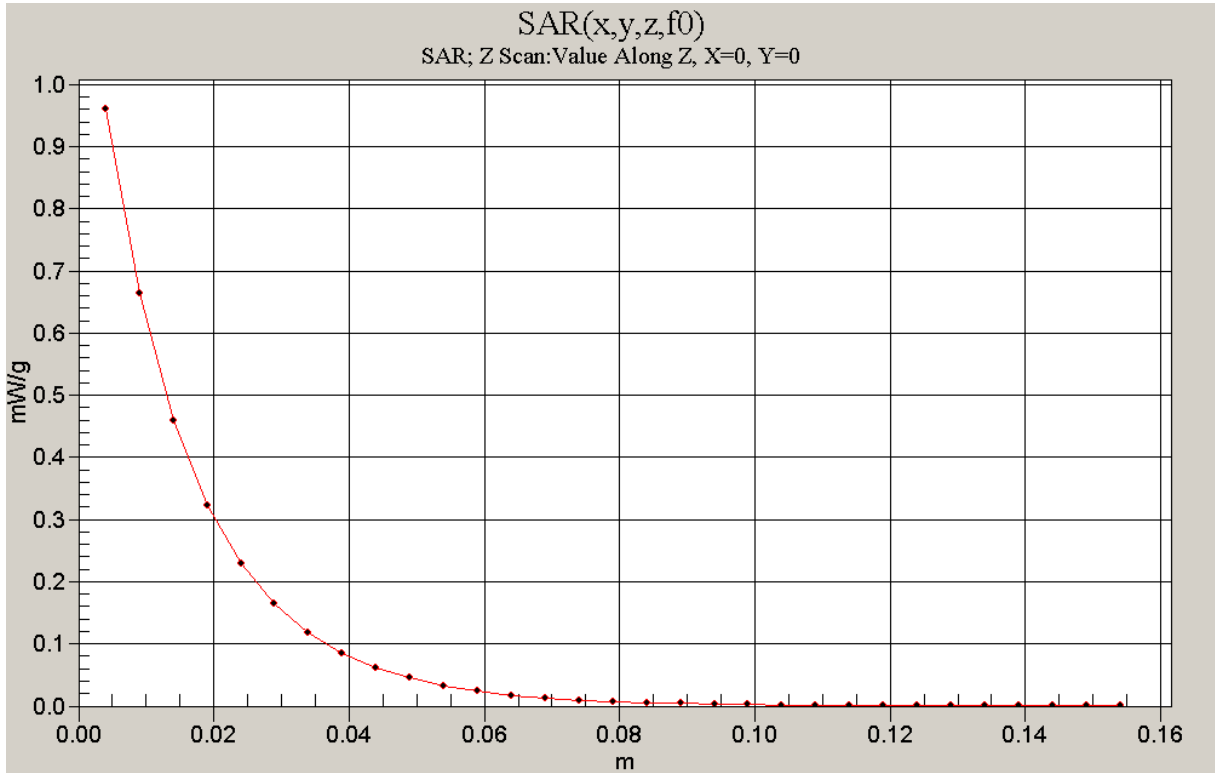
SAR(1 g) = 0.964 mW/g; SAR(10 g) = 0.630 mW/g



0 dB = 1.04mW/g



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Test Laboratory: Comptest/Kyocera
835MHz Validation (In Muscle) Probe 1618 DAE 493 Dipole #467, 05-29-09

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

Medium: M800, Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.41, 6.41, 6.41), Calibrated: 8/25/2008

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

Electronics: DAE3 Sn493, Calibrated: 9/17/2008

Measurement SW: DASY4, V4.7 Build 71

Postprocessing SW: SEMCAD, V1.8 Build 184

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

835MHz/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

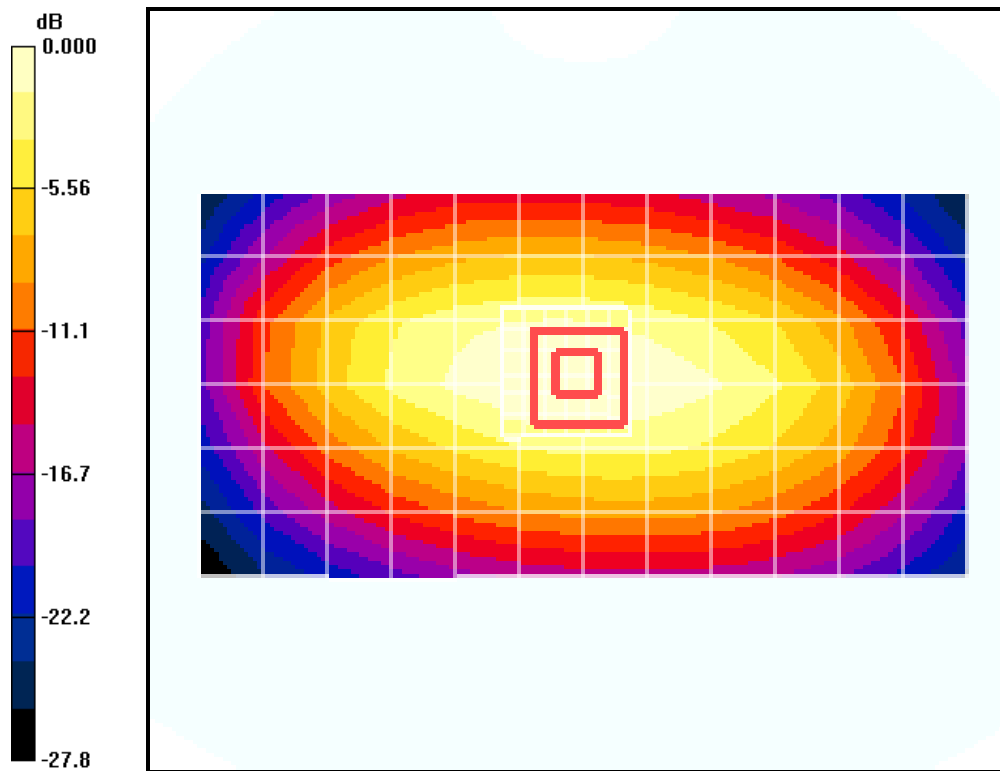
Maximum value of SAR (measured) = 1.04 mW/g

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

Reference Value = 34.9 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.971 mW/g; SAR(10 g) = 0.653 mW/g



0 dB = 1.05mW/g

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Date: 6/1/2009

Test Laboratory: Comptest/Kyocera

2450MHz Validation @ 20dBm Probe 3078, DAE 603 and Dipole 776, 06-01-09

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

Medium: HSL2450, Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.46, 4.46, 4.46), Calibrated: 6/23/2008

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

Electronics: DAE4 Sn603, Calibrated: 9/17/2008

Measurement SW: DASY4, V4.7 Build 71

Postprocessing SW: SEMCAD, V1.8 Build 184

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

2450MHz Validation @20dBm/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 5.52 mW/g

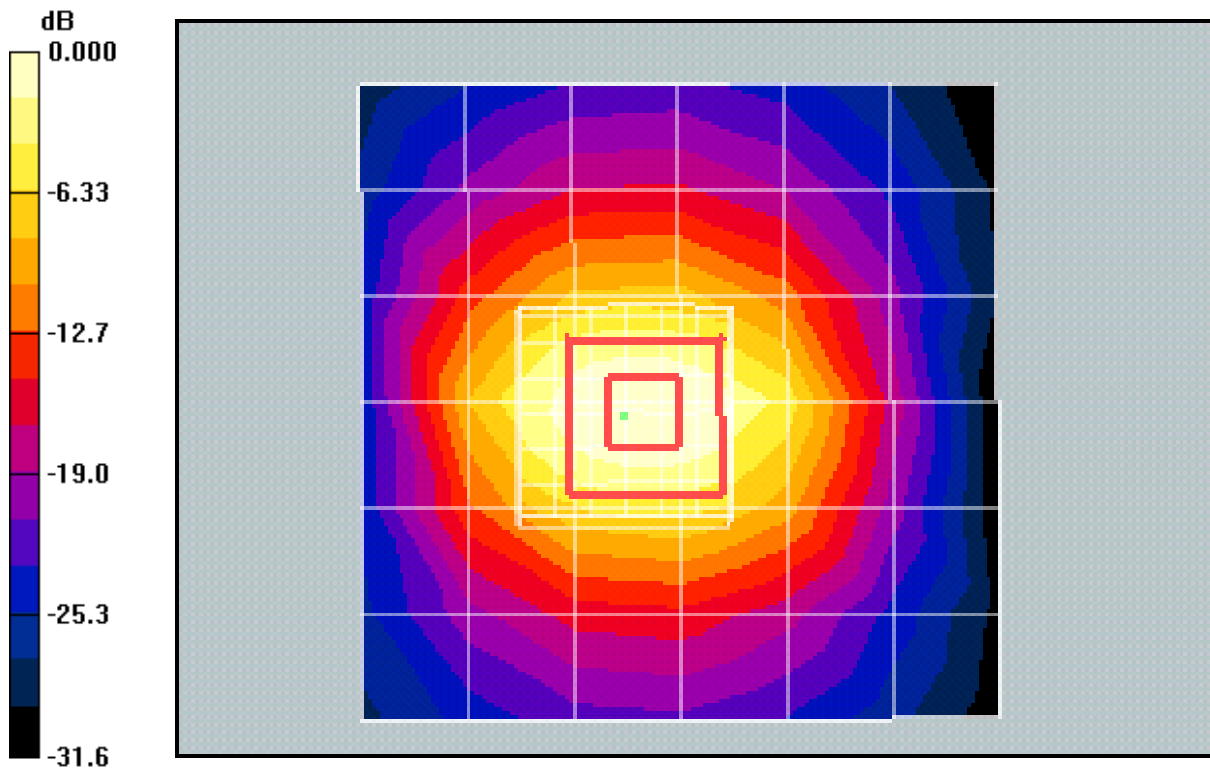
2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.9 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 11.6 W/kg

SAR(1 g) = 5.3 mW/g; SAR(10 g) = 2.39 mW/g

Maximum value of SAR (measured) = 5.96 mW/g



0 dB = 5.96mW/g