

APPENDIX 2 : SAR Measurement data (IEEE 802.11b / g : 2.4GHz)

IRF302U / Body / Left Front (Antenna 1) / 11.b / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.0791 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.103 W/kg

SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.033 mW/g

Maximum value of SAR = 0.0591 mW/g

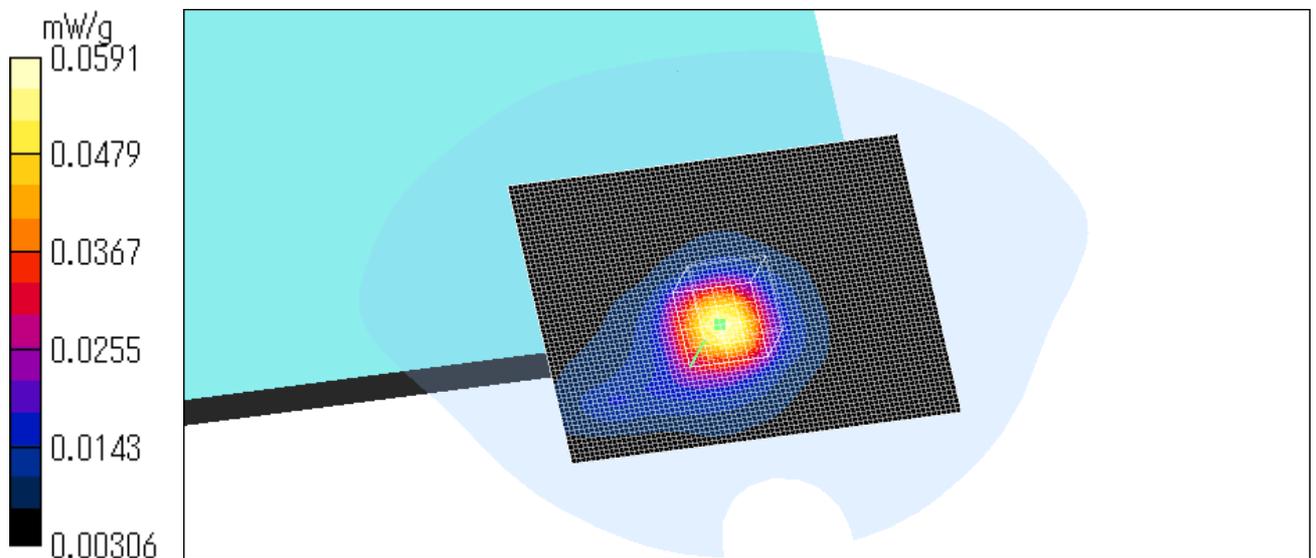
Reference Value = 5.64 V/m

Power Drift = -0.1 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.1 degree.C , After 23.1degree.C



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IRF302U / Body / Left Back (Antenna 1) / 11.b / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.168 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.37 W/kg

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.0996 mW/g

Maximum value of SAR = 0.187 mW/g

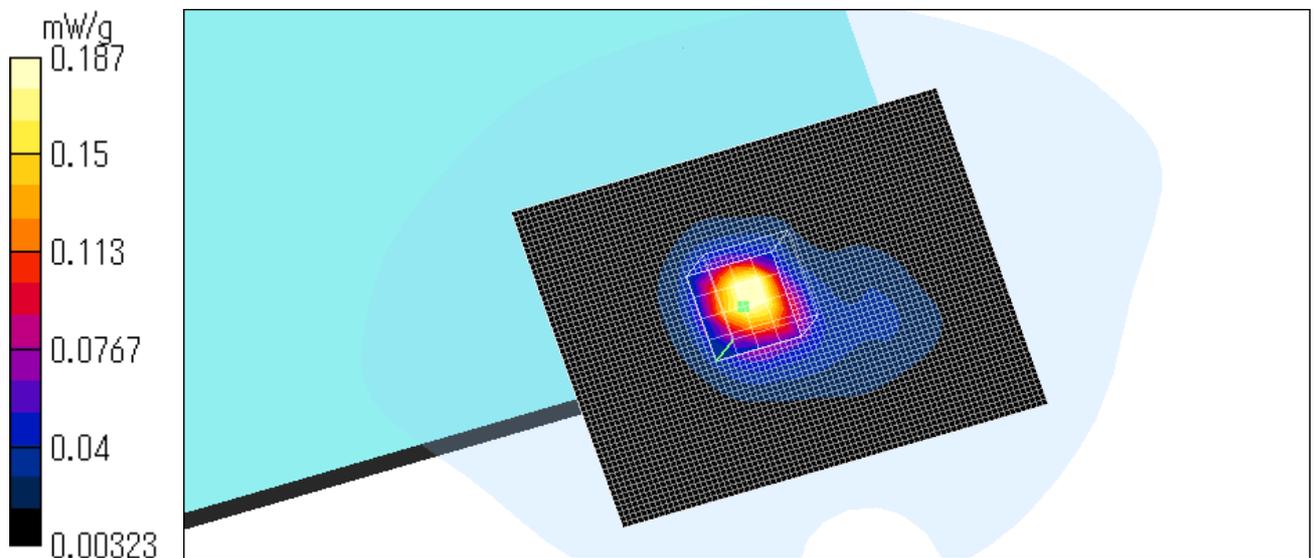
Reference Value = 8.26 V/m

Power Drift = 0.1 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.1 degree.C , After 23.1degree.C



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IRF302U / Body / Left Side (Antenna 1) / 11.b / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.0516 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.104 W/kg

SAR(1 g) = 0.0543 mW/g; SAR(10 g) = 0.0281 mW/g

Maximum value of SAR = 0.0564 mW/g

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.0931 W/kg

SAR(1 g) = 0.0354 mW/g; SAR(10 g) = 0.0182 mW/g

Maximum value of SAR = 0.0416 mW/g

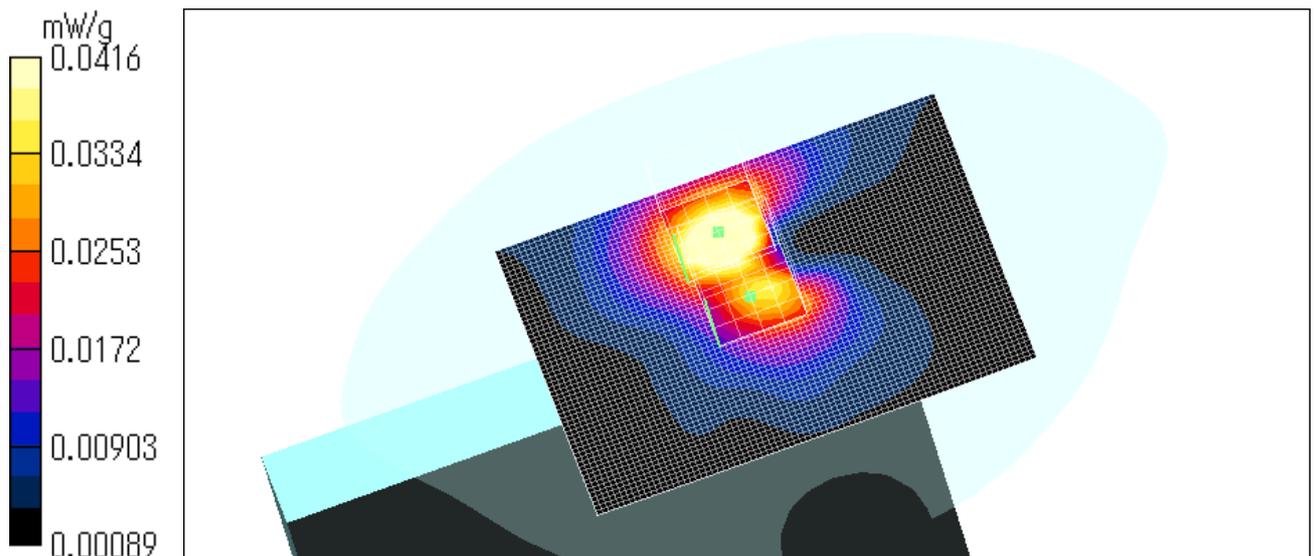
Reference Value = 4.37 V/m

Power Drift = 0.1 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 22.9 degree.C , After 22.9 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.b / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.34 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.545 W/kg

SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.142 mW/g

Maximum value of SAR = 0.319 mW/g

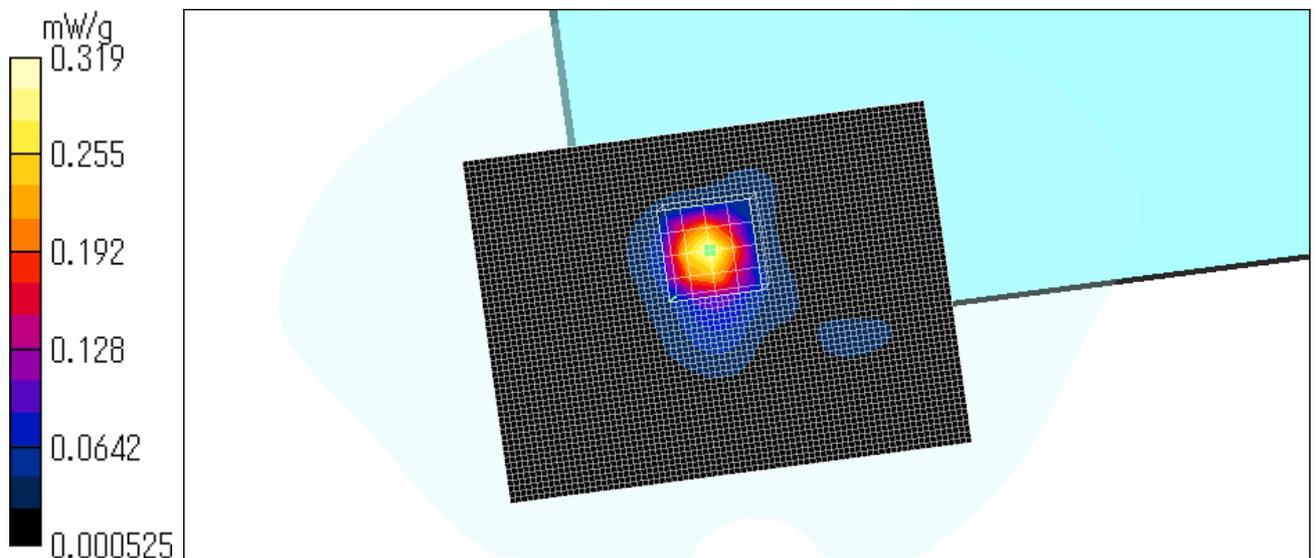
Reference Value = 7.71 V/m

Power Drift = -0.4 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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IRF302U / Body / Right Back (Antenna 2) / 11.b / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 2.02$ mho/m, $\epsilon_r = 50.3$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.0378 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.0864 W/kg

SAR(1 g) = 0.0392 mW/g; SAR(10 g) = 0.0208 mW/g

Maximum value of SAR = 0.0398 mW/g

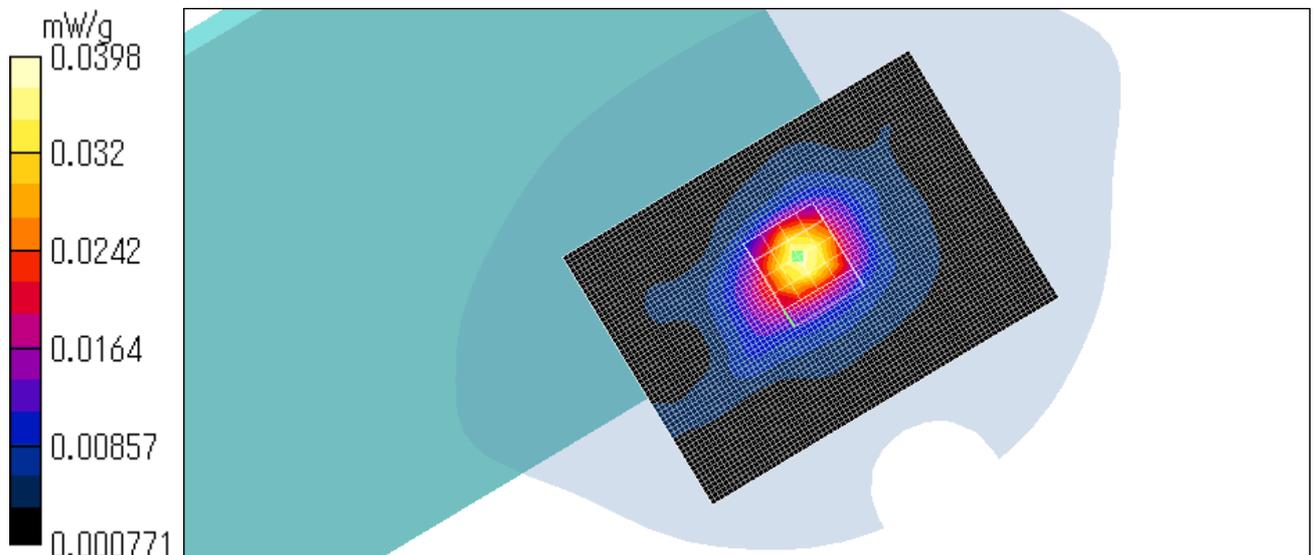
Reference Value = 4.28 V/m

Power Drift = -0.3 dB

Test Date = 06/13/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.1 degree.C , After 23.1 degree.C



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IRF302U / Body / Right Side (Antenna 2) / 11.b / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.0596 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.0565 mW/g; SAR(10 g) = 0.0299 mW/g

Maximum value of SAR = 0.0572 mW/g

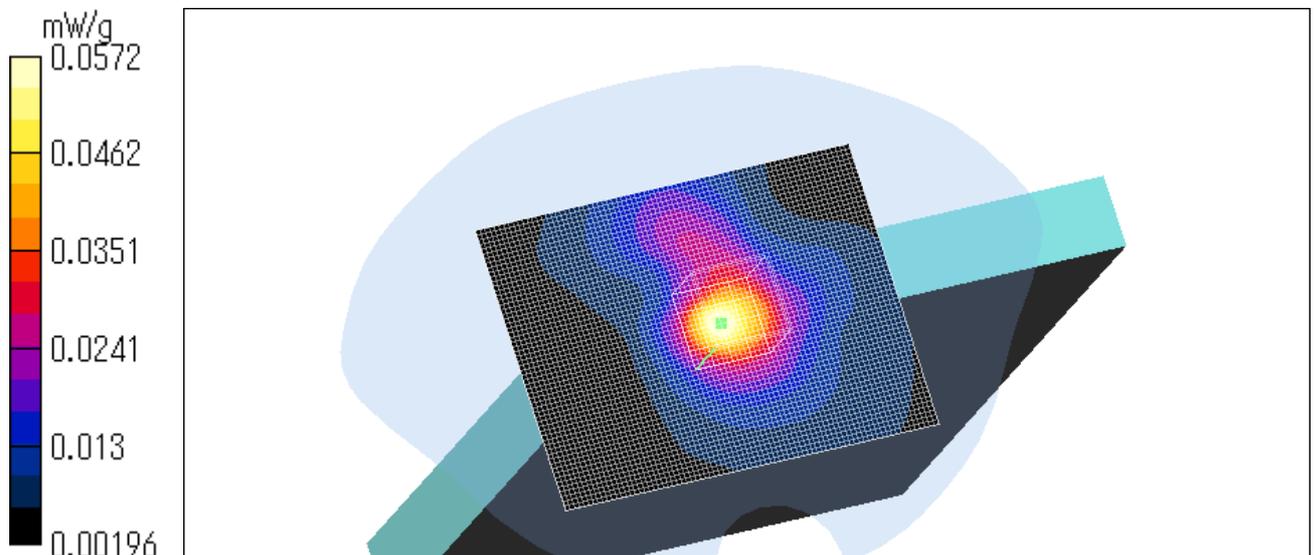
Reference Value = 5.38 V/m

Power Drift = 0.03 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 22.9 degree.C , After 22.9 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.b / 2412MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.422 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.809 W/kg

SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.211 mW/g

Maximum value of SAR = 0.456 mW/g

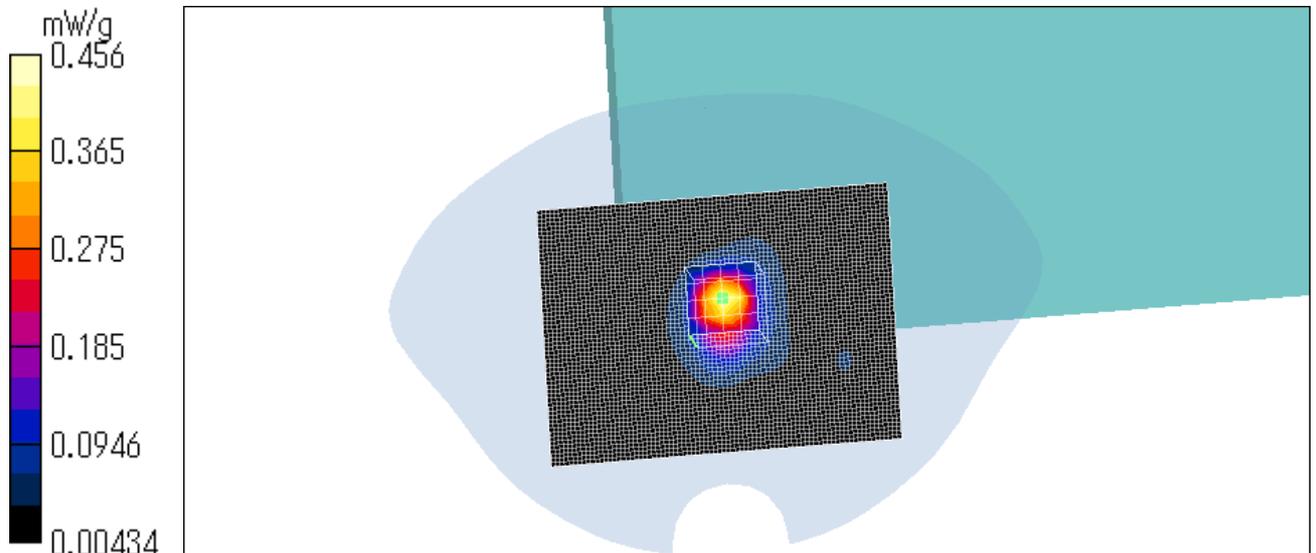
Reference Value = 13.2 V/m

Power Drift = -0.1 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.0 degree.C , After 23.0degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.b / 2462MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.408 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.813 W/kg

SAR(1 g) = 0.444 mW/g; SAR(10 g) = 0.208 mW/g

Maximum value of SAR = 0.467 mW/g

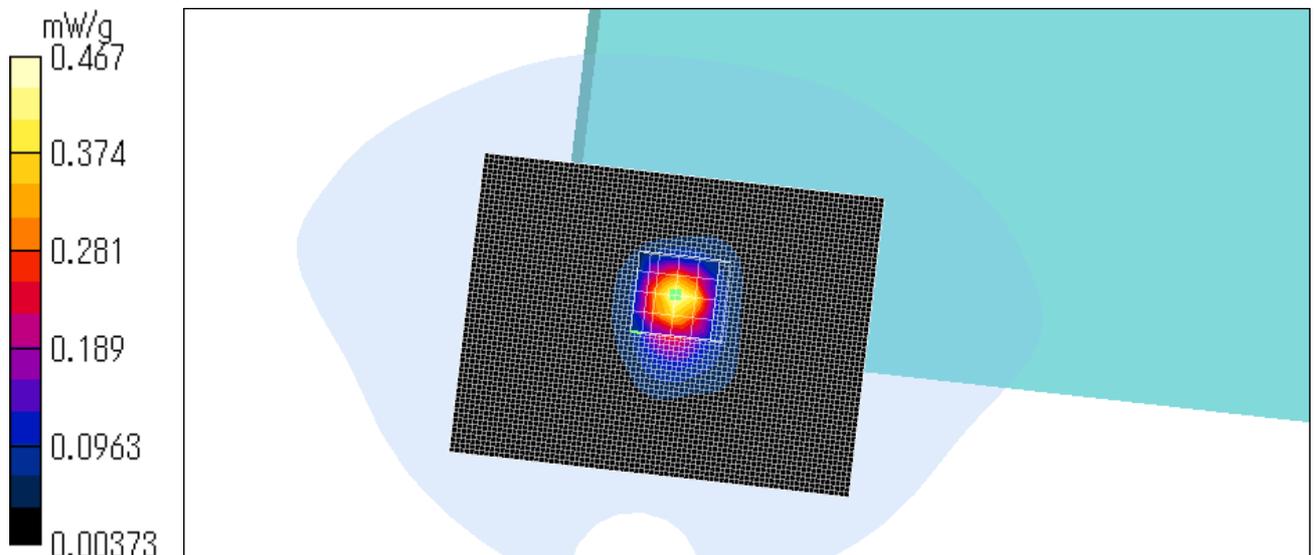
Reference Value = 12.5 V/m

Power Drift = 0.07 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.0 degree.C , After 22.9 degree.C



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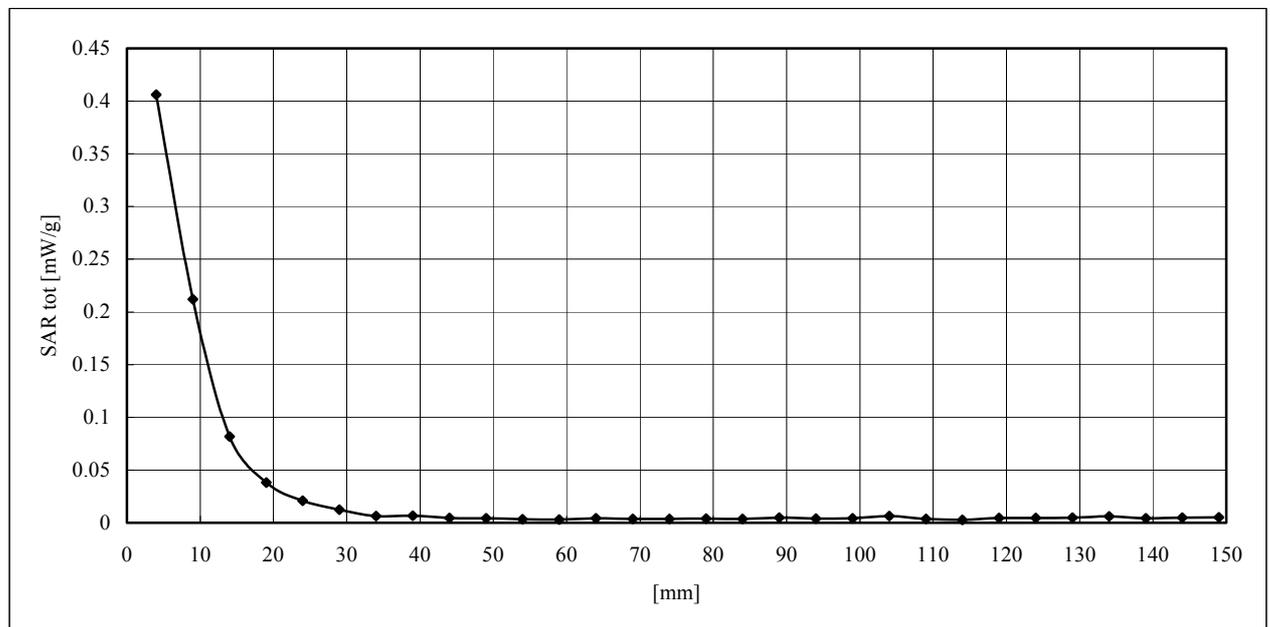
Z-axis scan at max SAR location

IRF302U / Body / Right Front (Antenna 2) / 11.b / 2462MHz

Crest factor: 1
Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115



IRF302U / Body / Left Front (Antenna 1) / 11.g(64QAM) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.0286 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.043 W/kg

SAR(1 g) = 0.0243 mW/g; SAR(10 g) = 0.0142 mW/g

Maximum value of SAR = 0.0261 mW/g

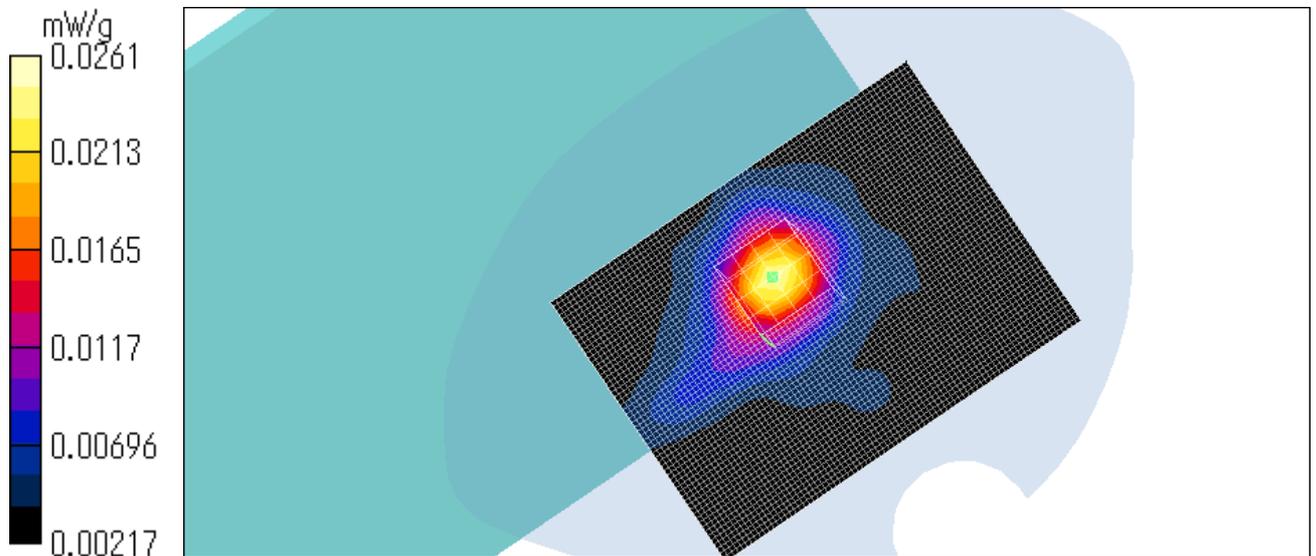
Reference Value = 2.57 V/m

Power Drift = -0.4 dB

Test Date = 06/11/04

Ambient Temperature = 24.3 degree.c

Liquid Temperature = Before 23.5 degree.C , After 23.5 degree.C



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IRF302U / Body / Left Back (Antenna 1) / 11.g(64QAM) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.16 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.355 W/kg

SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.0962 mW/g

Maximum value of SAR = 0.193 mW/g

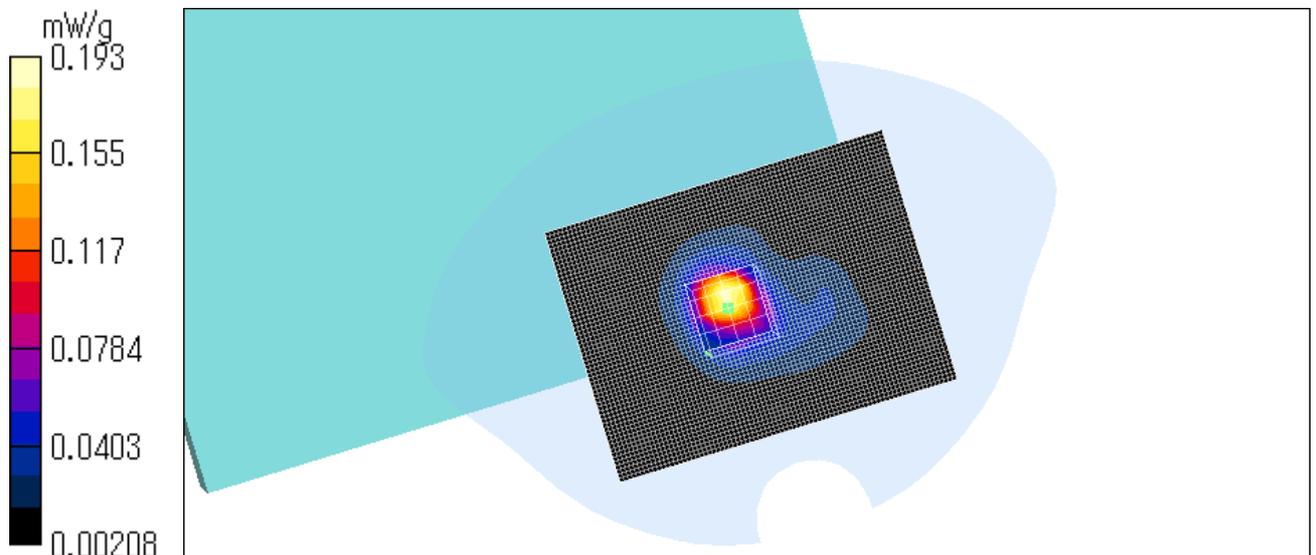
Reference Value = 8.3 V/m

Power Drift = -0.1 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.1 degree.C , After 23.1degree.C



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IRF302U / Body / Left Side (Antenna 1) / 11.g(64QAM) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.026 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.0604 W/kg

SAR(1 g) = 0.0289 mW/g; SAR(10 g) = 0.0148 mW/g

Maximum value of SAR = 0.0296 mW/g

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.0581 W/kg

SAR(1 g) = 0.0166 mW/g; SAR(10 g) = 0.00932 mW/g

Maximum value of SAR = 0.0208 mW/g

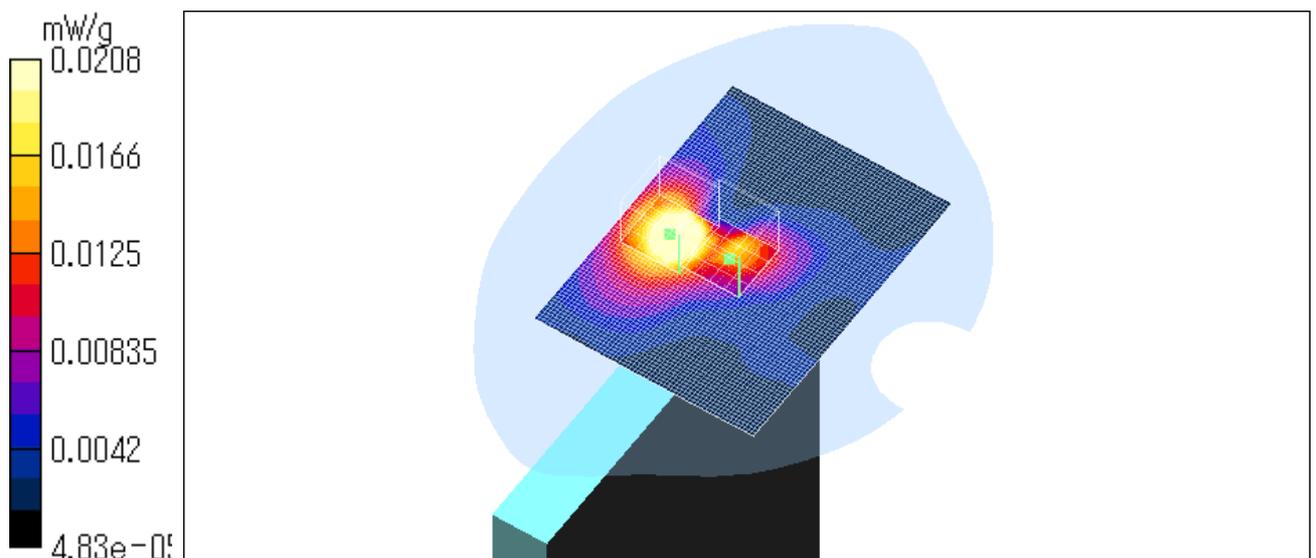
Reference Value = 2.89 V/m

Power Drift = 0.2 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.1 degree.C , After 23.1degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.g(64QAM) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.243 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.404 W/kg

SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.103 mW/g

Maximum value of SAR = 0.231 mW/g

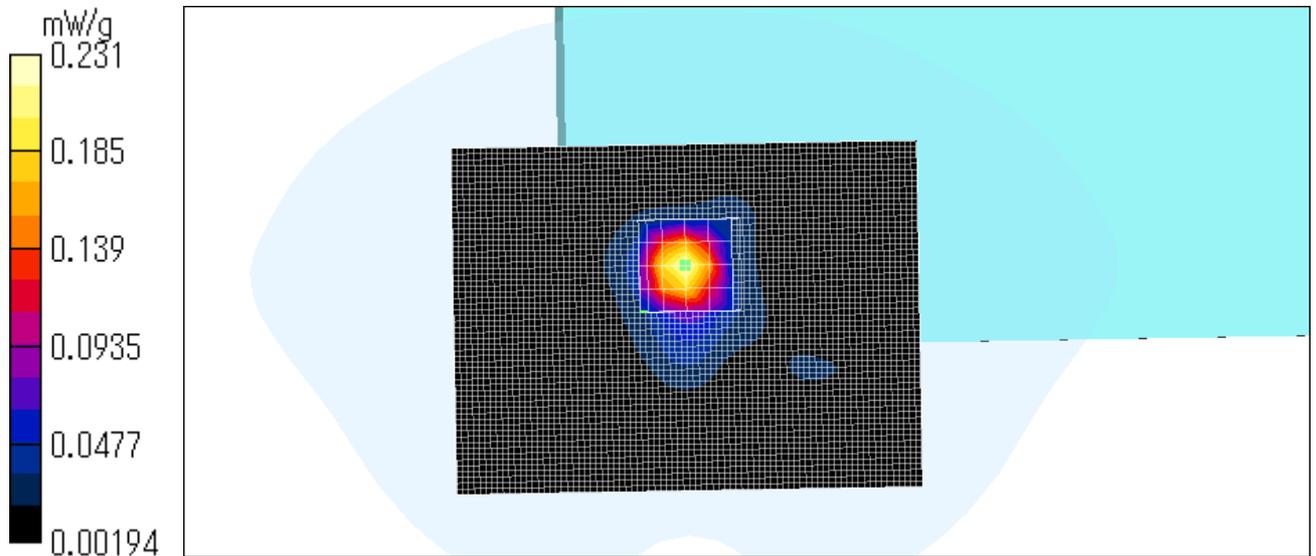
Reference Value = 6.19 V/m

Power Drift = 0.05 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.1 degree.C , After 23.1degree.C



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IRF302U / Body / Right Back (Antenna 2) / 11.g(64QAM) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 2.02$ mho/m, $\epsilon_r = 50.3$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.0407 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.0773 W/kg

SAR(1 g) = 0.0379 mW/g; SAR(10 g) = 0.0206 mW/g

Maximum value of SAR = 0.0395 mW/g

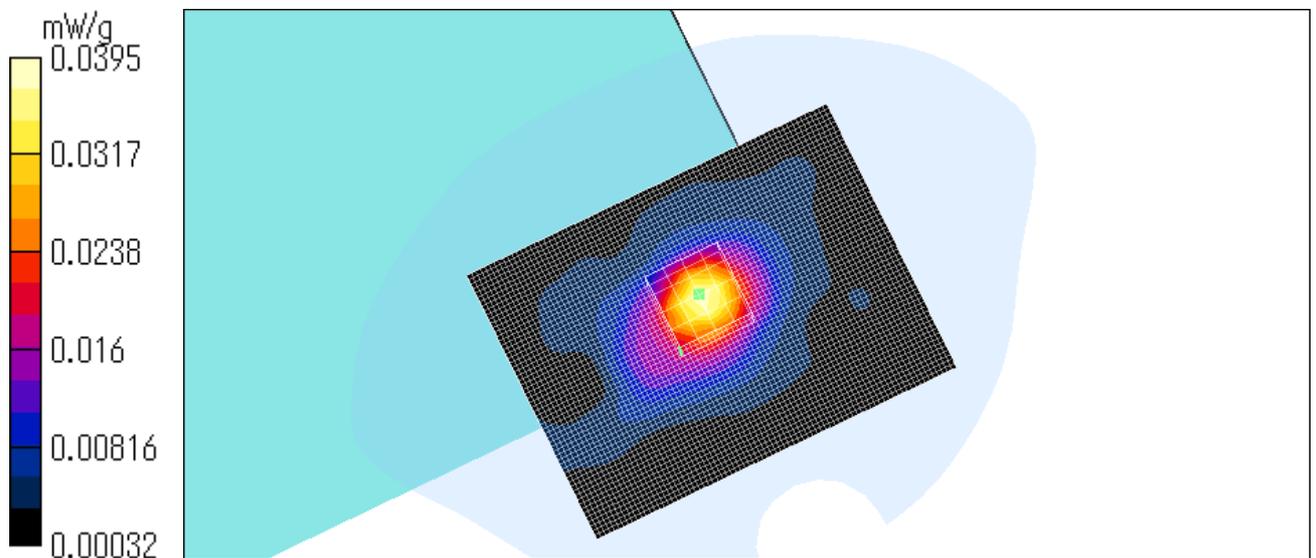
Reference Value = 4.18 V/m

Power Drift = -0.02 dB

Test Date = 06/13/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.1 degree.C , After 23.2 degree.C



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IRF302U / Body / Right Side (Antenna 2) / 11.g(64QAM) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.0261 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.0508 W/kg

SAR(1 g) = 0.0237 mW/g; SAR(10 g) = 0.0129 mW/g

Maximum value of SAR = 0.0242 mW/g

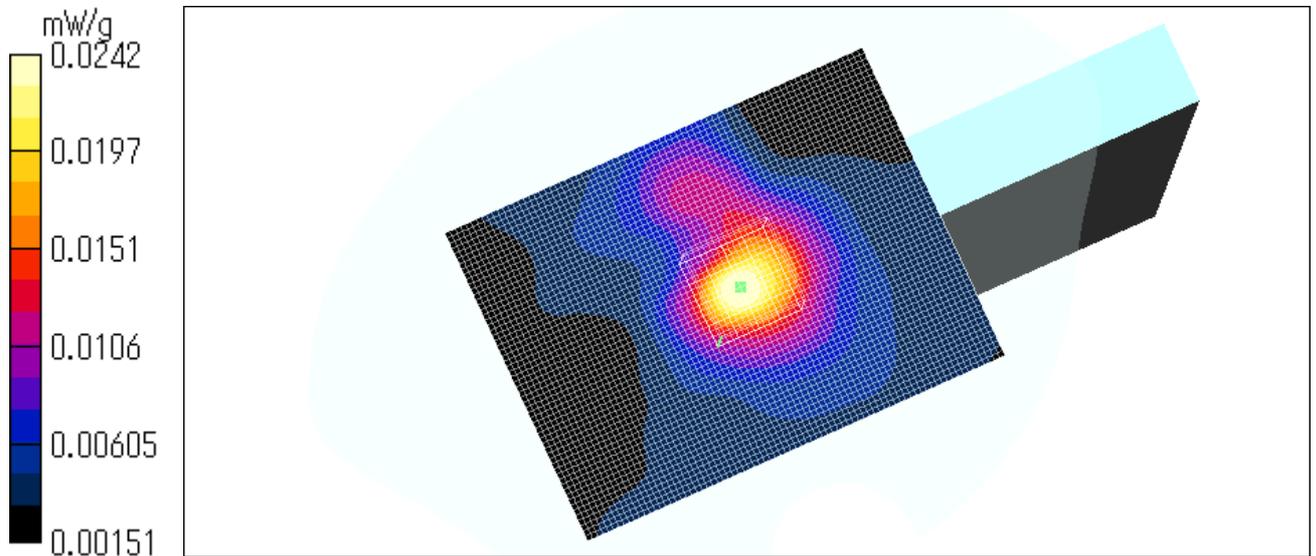
Reference Value = 3.76 V/m

Power Drift = -0.4 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.g (64QAM) / 2412MHz

Crest factor: 1

Medium: M2450 ($\sigma = 2.02$ mho/m, $\epsilon_r = 50.3$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.235 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.427 W/kg

SAR(1 g) = 0.25 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR = 0.25 mW/g

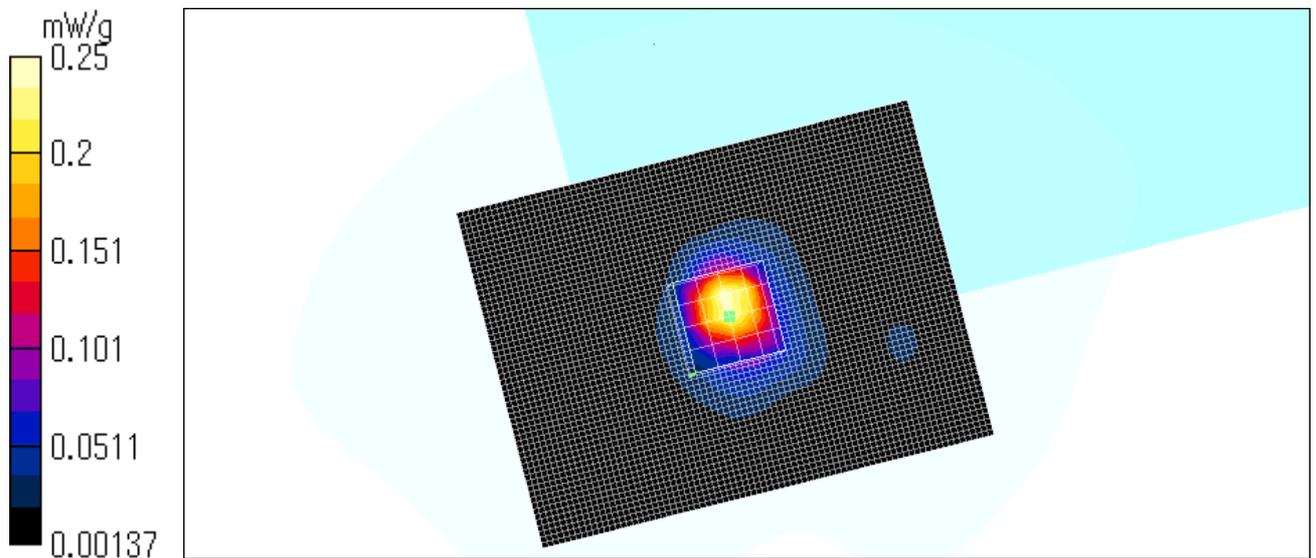
Reference Value = 11.2 V/m

Power Drift = -0.1 dB

Test Date = 06/13/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.3 degree.C , After 23.3 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.g(64QAM) / 2462MHz

Crest factor: 1

Medium: M2450 ($\sigma = 2.02$ mho/m, $\epsilon_r = 50.3$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.197 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.371 W/kg

SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR = 0.207 mW/g

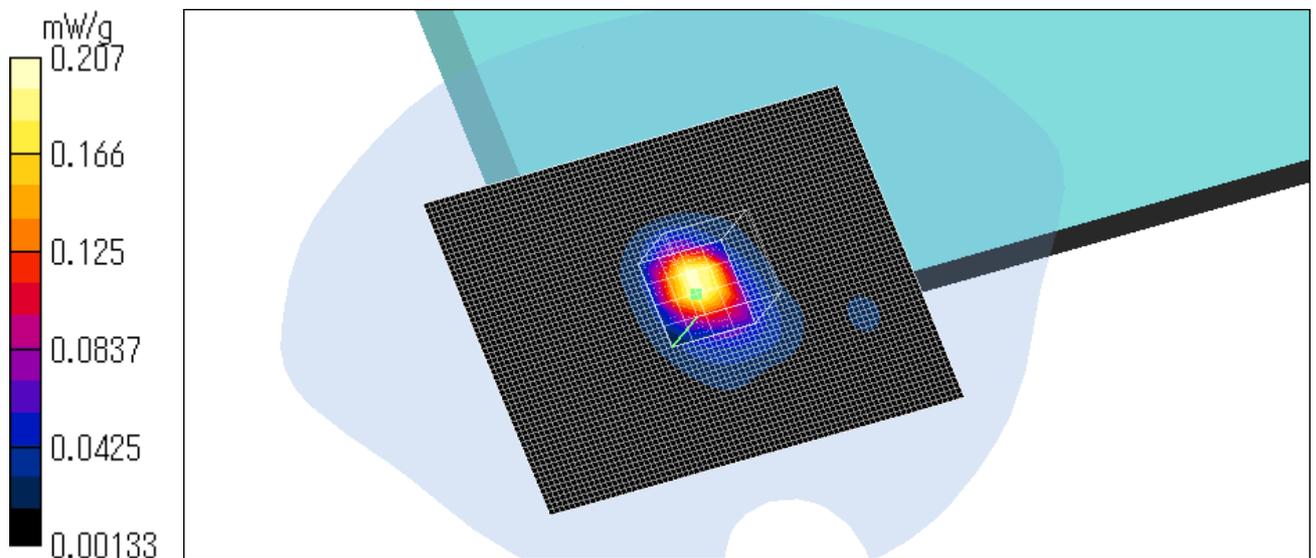
Reference Value = 10.4 V/m

Power Drift = -0.2 dB

Test Date = 06/13/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.2 degree.C , After 23.2 degree.C



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IRF302U / Body / Left Front (Antenna 1) / 11.g(QPSK) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.0624 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.11 W/kg

SAR(1 g) = 0.0568 mW/g; SAR(10 g) = 0.0318 mW/g

Maximum value of SAR = 0.0589 mW/g

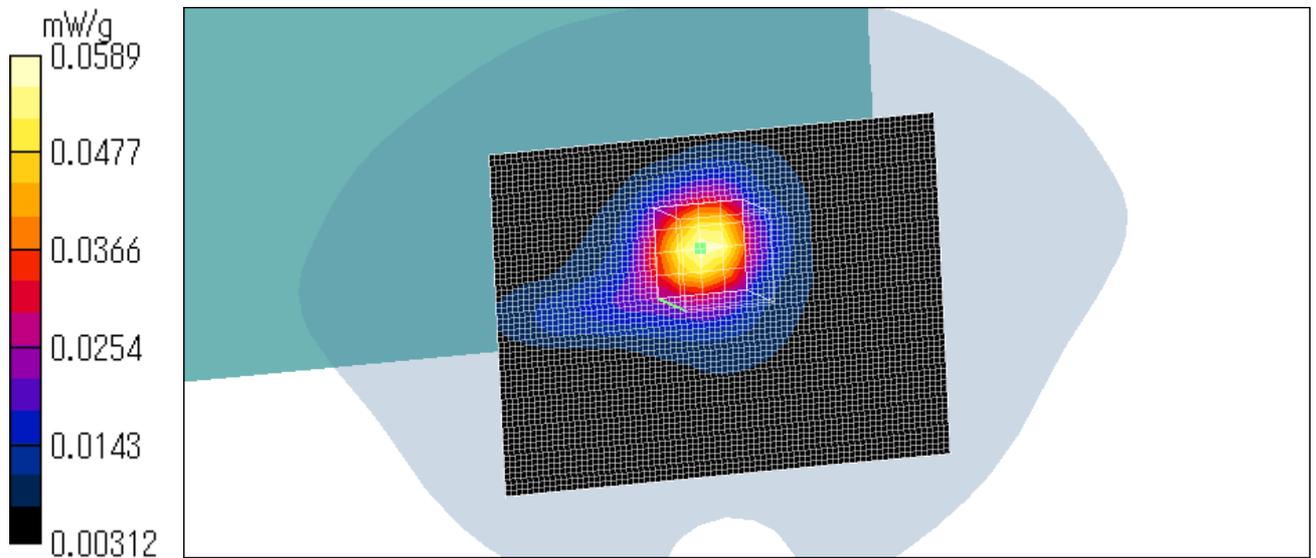
Reference Value = 3.63 V/m

Power Drift = -0.1 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.1 degree.C , After 23.1degree.C



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IRF302U / Body / Left Back (Antenna 1) / 11.g(QPSK) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.153 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.184 mW/g; SAR(10 g) = 0.0904 mW/g

Maximum value of SAR = 0.181 mW/g

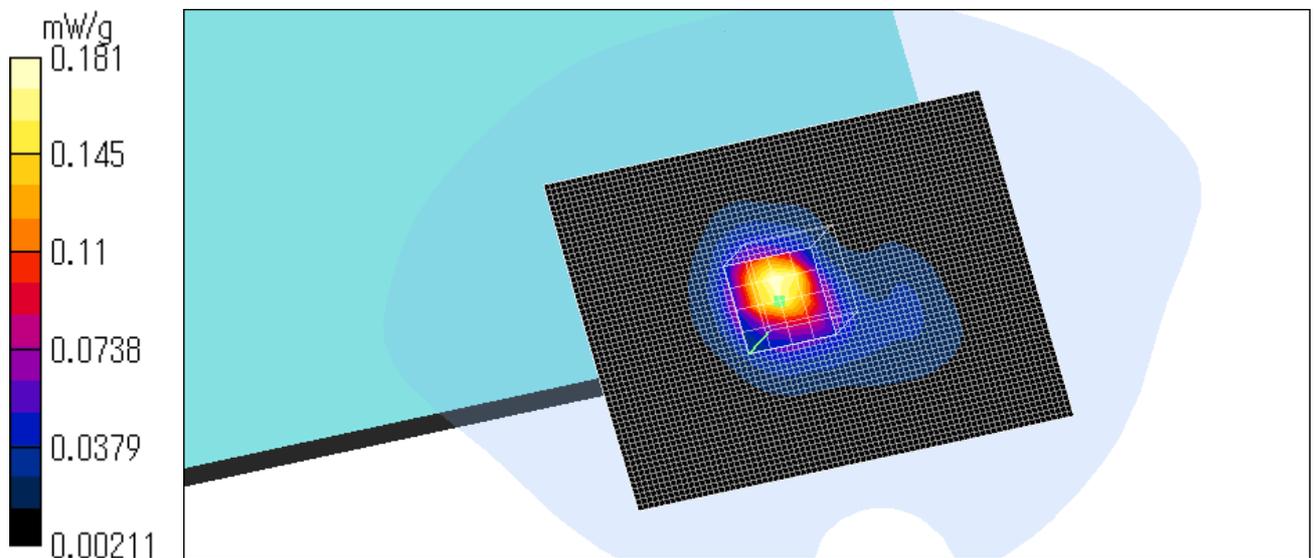
Reference Value = 8.17 V/m

Power Drift = -0.1 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.1 degree.C , After 23.1degree.C



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IRF302U / Body / Left Side (Antenna 1) / 11.g(QPSK) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.0104 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.0299 W/kg

SAR(1 g) = 0.0115 mW/g; SAR(10 g) = 0.00615 mW/g

Maximum value of SAR = 0.0118 mW/g

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.0531 W/kg

SAR(1 g) = 0.00723 mW/g; SAR(10 g) = 0.00495 mW/g

Maximum value of SAR = 0.00748 mW/g

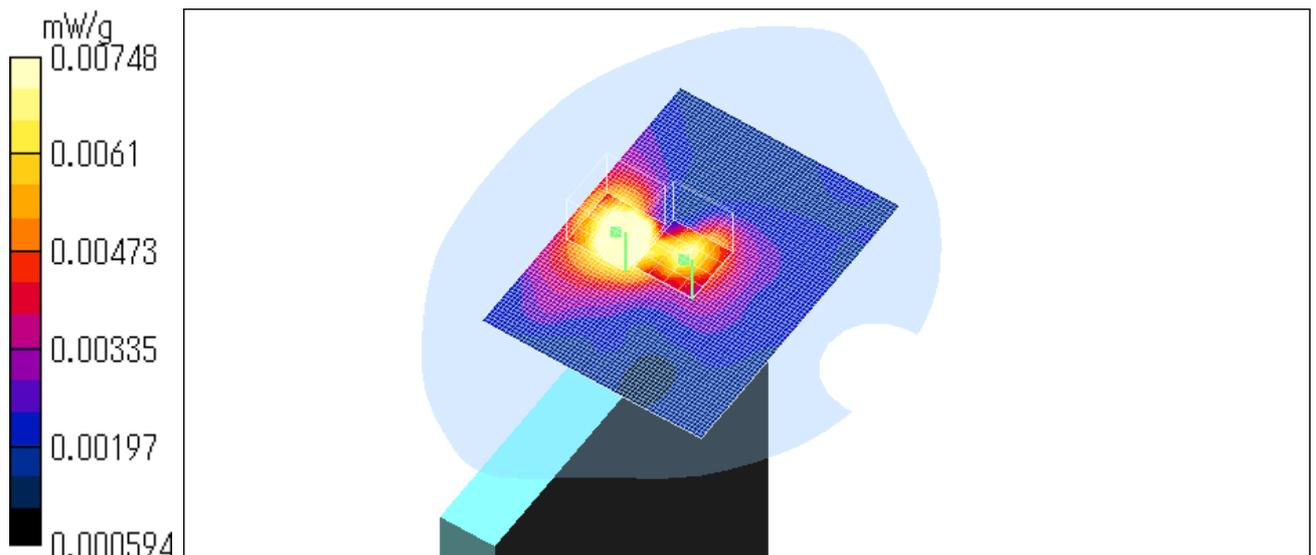
Reference Value = 2.41 V/m

Power Drift = -0.2 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 22.9 degree.C , After 22.9 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.g(QPSK) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.241 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.414 W/kg

SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.105 mW/g

Maximum value of SAR = 0.229 mW/g

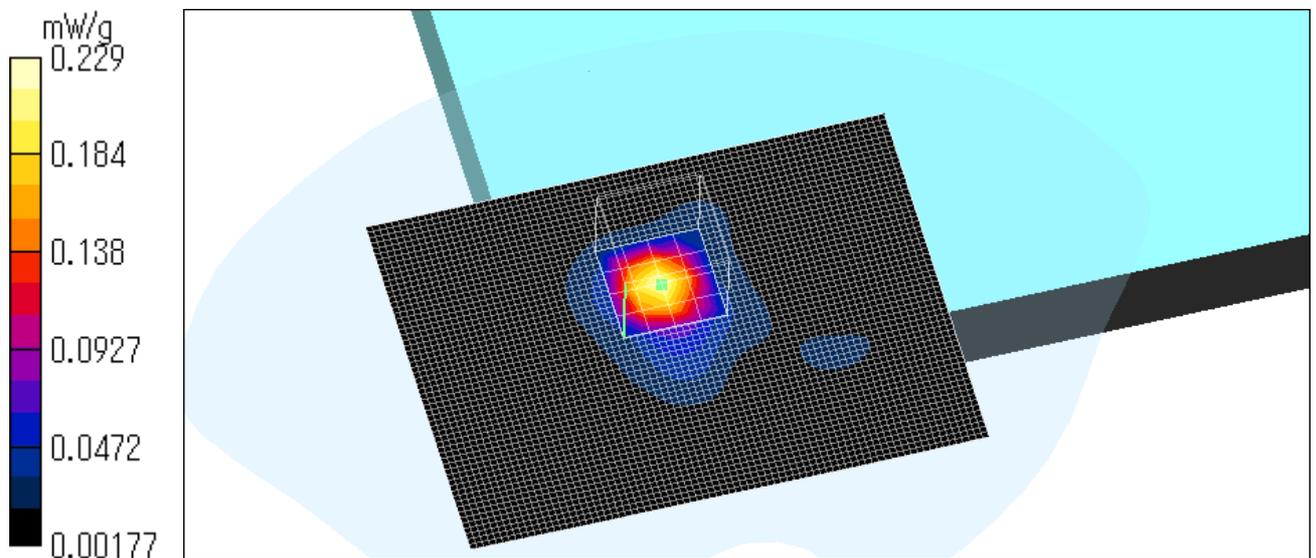
Reference Value = 6.3 V/m

Power Drift = -0.2 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.0 degree.C , After 22.9 degree.C



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IRF302U / Body / Right Back (Antenna 2) / 11.g(QPSK) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 2.02$ mho/m, $\epsilon_r = 50.3$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.043 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.084 W/kg

SAR(1 g) = 0.0402 mW/g; SAR(10 g) = 0.0216 mW/g

Maximum value of SAR = 0.0415 mW/g

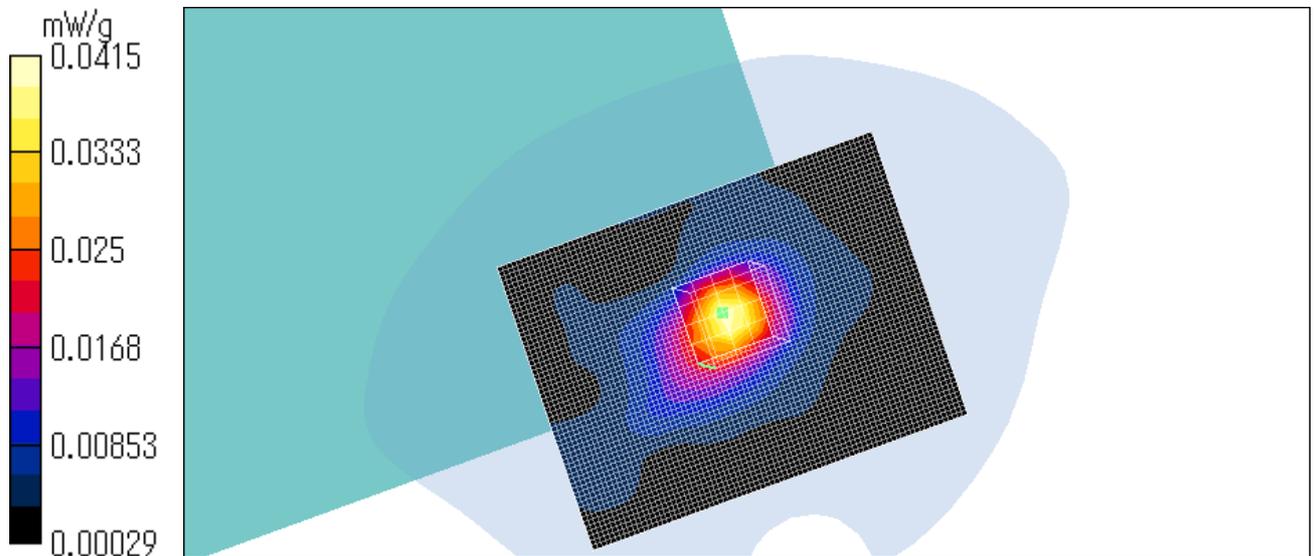
Reference Value = 4.27 V/m

Power Drift = 0.04 dB

Test Date = 06/13/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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IRF302U / Body / Right Side (Antenna 2) / 11.g(QPSK) / 2437MHz

Crest factor: 1

Medium: M2450 ($\sigma = 1.97$ mho/m, $\epsilon_r = 50.5$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.0263 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.0666 W/kg

SAR(1 g) = 0.0266 mW/g; SAR(10 g) = 0.0143 mW/g

Maximum value of SAR = 0.0261 mW/g

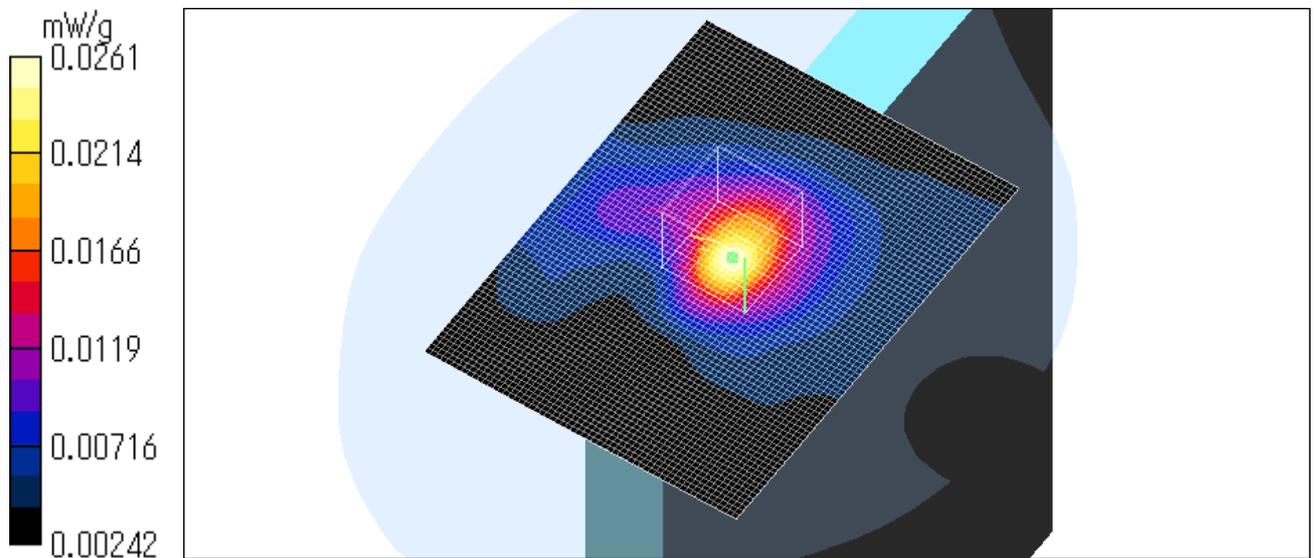
Reference Value = 3.72 V/m

Power Drift = -0.2 dB

Test Date = 06/11/04

Ambient Temperature = 24.4 degree.c

Liquid Temperature = Before 23.0 degree.C , After 23.0 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.g (QPSK) / 2412MHz

Crest factor: 1

Medium: M2450 ($\sigma = 2.02$ mho/m, $\epsilon_r = 50.3$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.206 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.377 W/kg

SAR(1 g) = 0.22 mW/g; SAR(10 g) = 0.107 mW/g

Maximum value of SAR = 0.222 mW/g

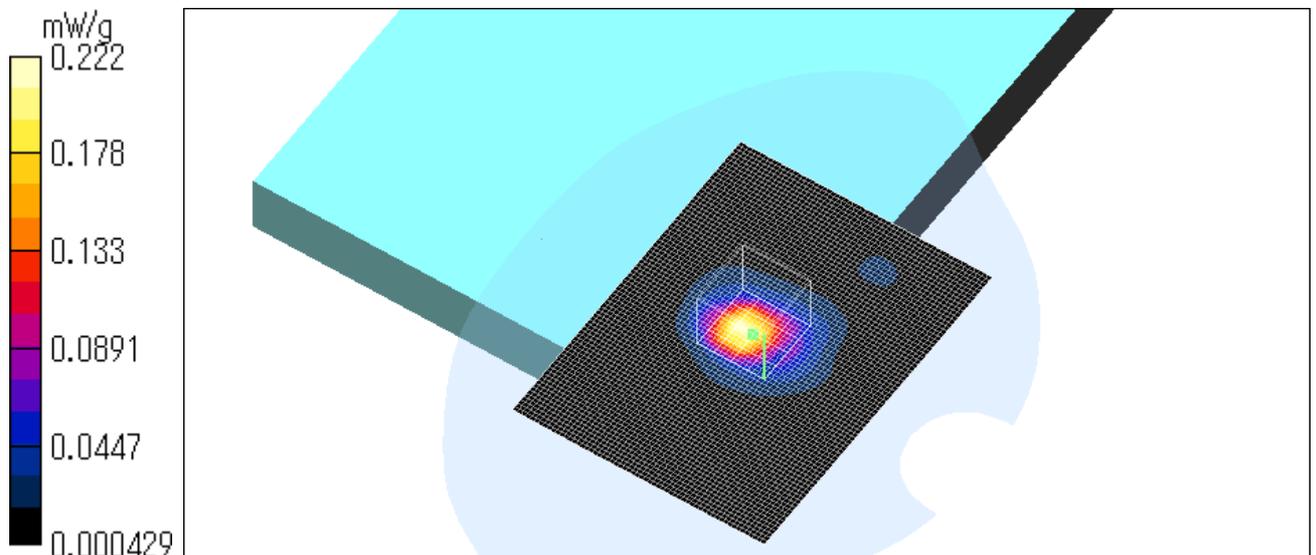
Reference Value = 10.4 V/m

Power Drift = -0.1 dB

Test Date = 06/13/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.1 degree.C , After 23.1degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.g(QPSK) / 2462MHz

Crest factor: 1

Medium: M2450 ($\sigma = 2.02$ mho/m, $\epsilon_r = 50.3$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.3, 4.3, 4.3); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 0.209 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 0.391 W/kg

SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.106 mW/g

Maximum value of SAR = 0.224 mW/g

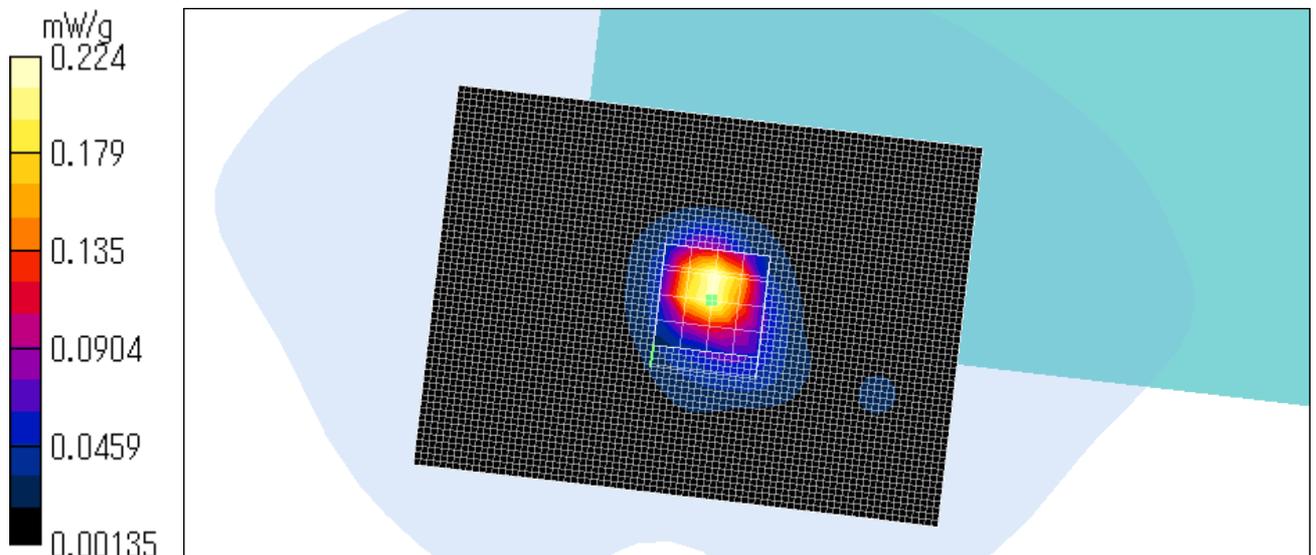
Reference Value = 10.5 V/m

Power Drift = -0.08 dB

Test Date = 06/13/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 23.1 degree.C , After 23.1 degree.C



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APPENDIX 3 : SAR Measurement data (IEEE 802.11a : 5.15-5.35GHz)

IRF302U / Body / Left Front (Antenna 1) / 11.a(64QAM) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.0295 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.0365 W/kg

SAR(1 g) = 0.0219 mW/g; SAR(10 g) = 0.0196 mW/g

Maximum value of SAR = 0.0282 mW/g

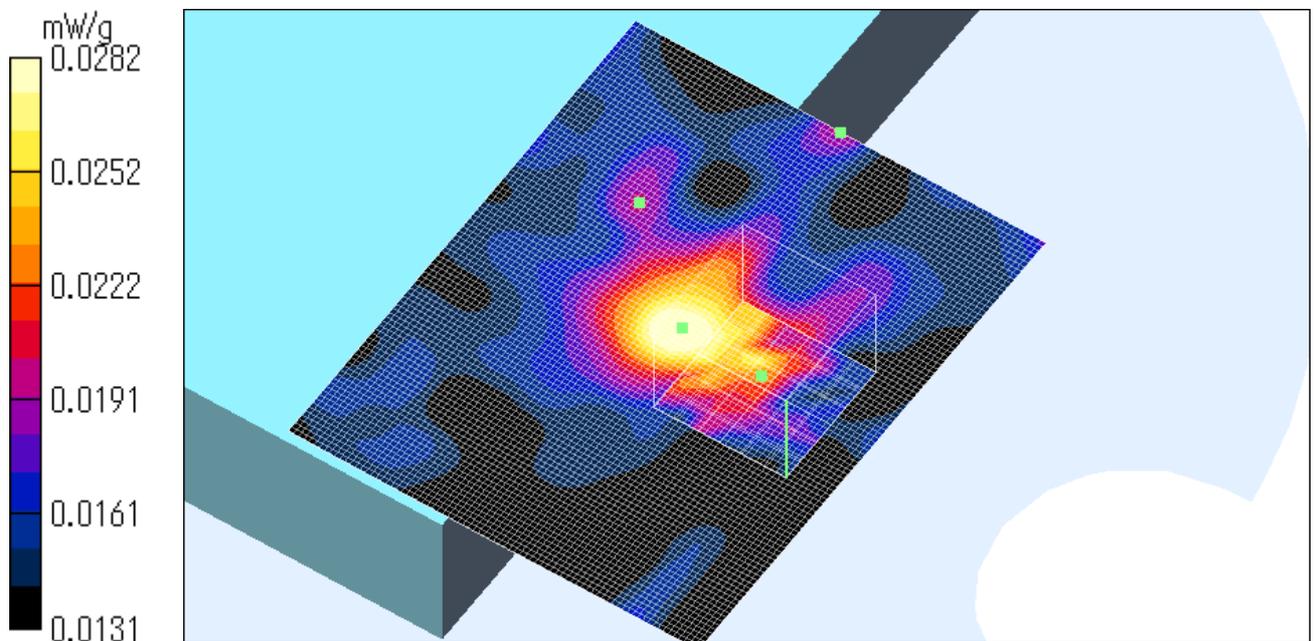
Reference Value = 2.45 V/m

Power Drift = -0.1 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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IRF302U / Body / Left Back (Antenna 1) / 11.a(64QAM) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 1.86 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 3.11 W/kg

SAR(1 g) = 0.87 mW/g; SAR(10 g) = 0.236 mW/g

Maximum value of SAR = 1.7 mW/g

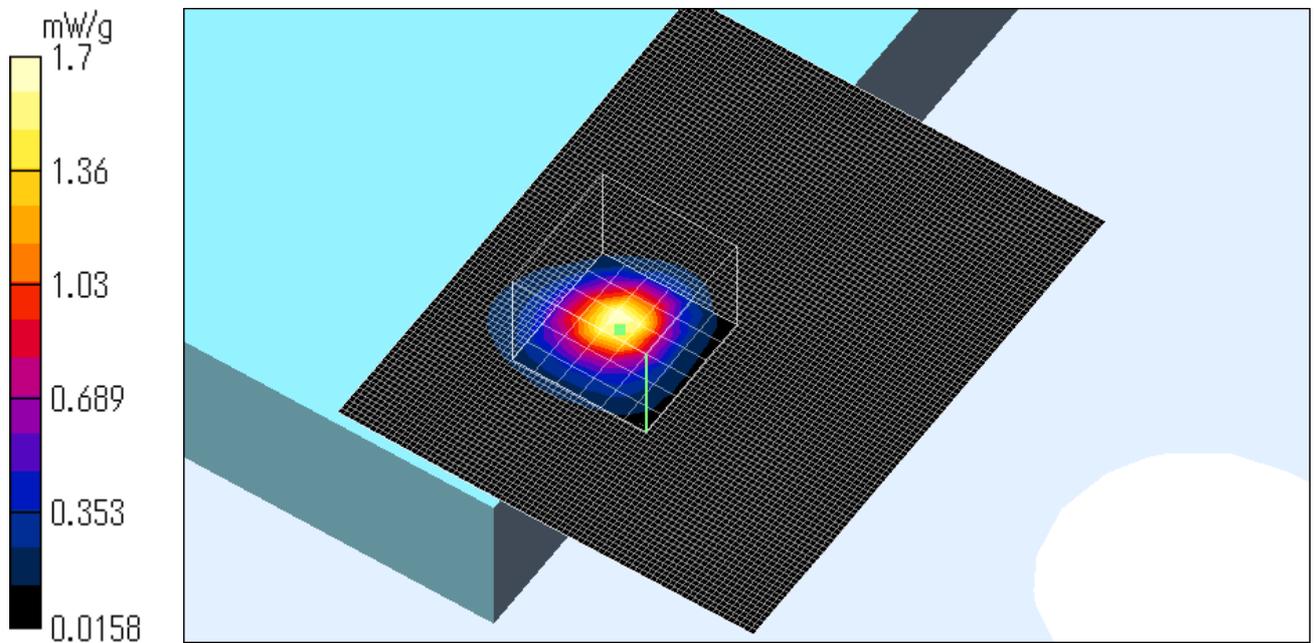
Reference Value = 8.88 V/m

Power Drift = 0.07 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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Z-axis scan at max SAR location

IRF302U / Body / Left Back (Antenna 1) / 11.a(64QAM) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

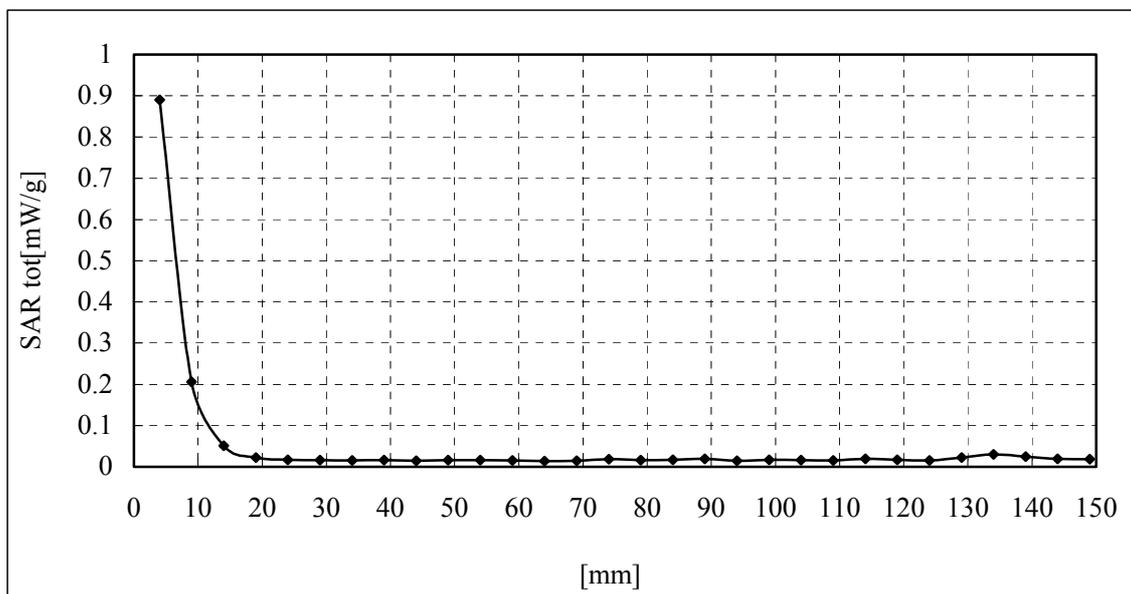
DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115



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IRF302U / Body / Left Side (Antenna 1) / 11.a(64QAM) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.0622 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.107 W/kg

SAR(1 g) = 0.0389 mW/g; SAR(10 g) = 0.0205 mW/g

Maximum value of SAR = 0.0678 mW/g

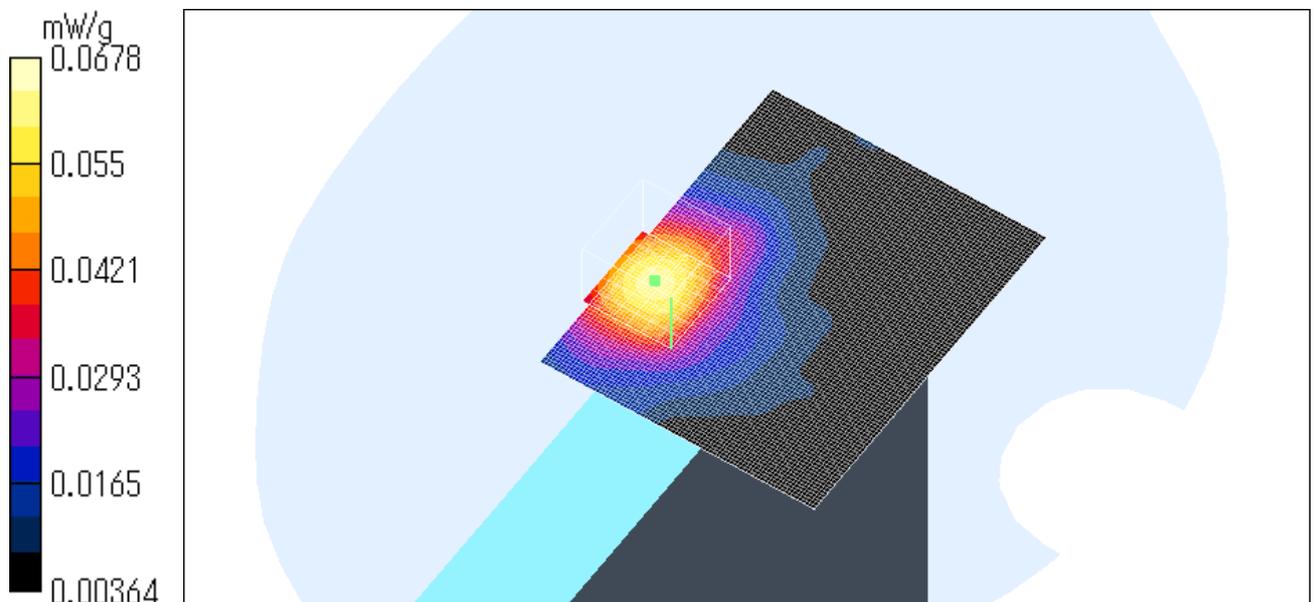
Reference Value = 2 V/m

Power Drift = 0.2 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.a(64QAM) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 1.51 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 2.66 W/kg

SAR(1 g) = 0.746 mW/g; SAR(10 g) = 0.219 mW/g

Maximum value of SAR = 1.47 mW/g

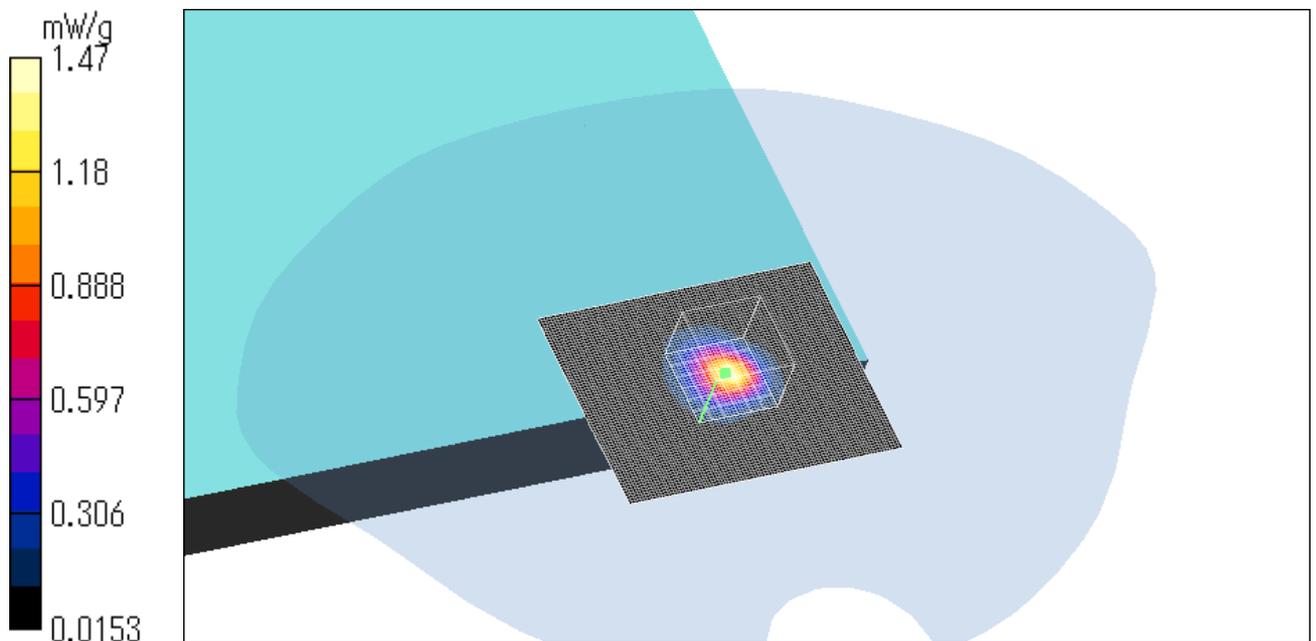
Reference Value = 15.2 V/m

Power Drift = -0.09 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 23.7 degree.C , After 23.7 degree.C



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IRF302U / Body / Right Back (Antenna 2) / 11.a(64QAM) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.0454 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.0706 W/kg

SAR(1 g) = 0.0335 mW/g; SAR(10 g) = 0.0255 mW/g

Maximum value of SAR = 0.0442 mW/g

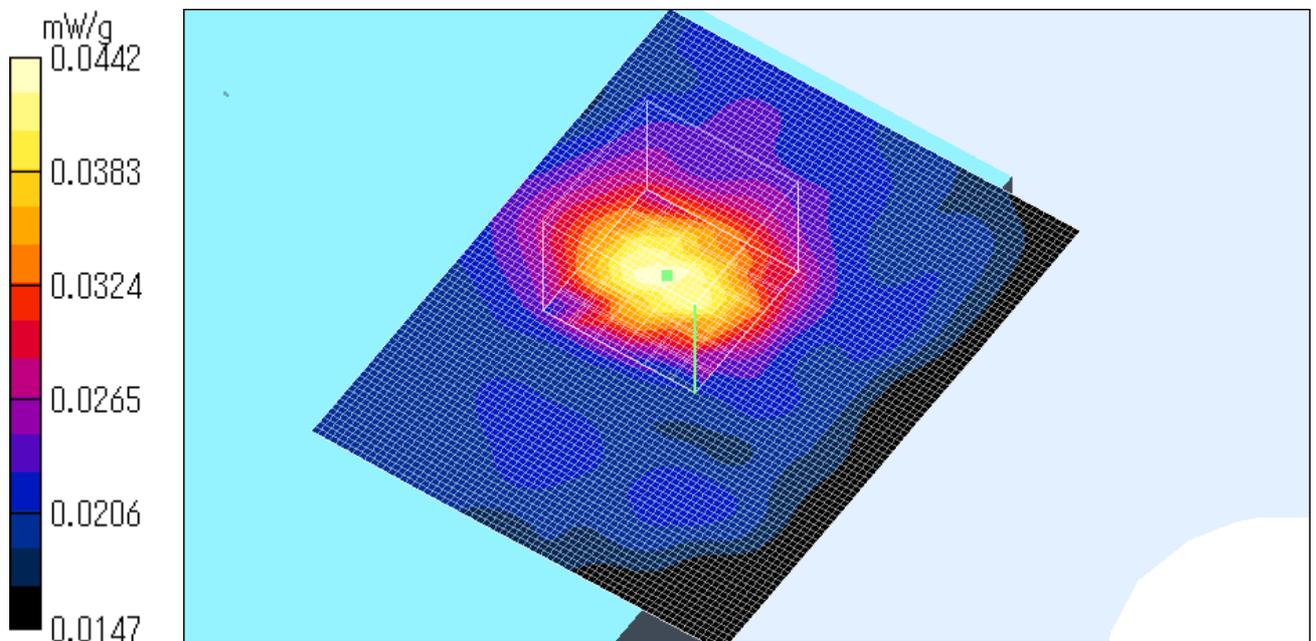
Reference Value = 2.68 V/m

Power Drift = -0.3 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 23.9 degree.C , After 23.9 degree.C



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IRF302U / Body / Right Side (Antenna 2) / 11.a(64QAM) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.0386 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.124 W/kg

SAR(1 g) = 0.0266 mW/g; SAR(10 g) = 0.0156 mW/g

Maximum value of SAR = 0.0387 mW/g

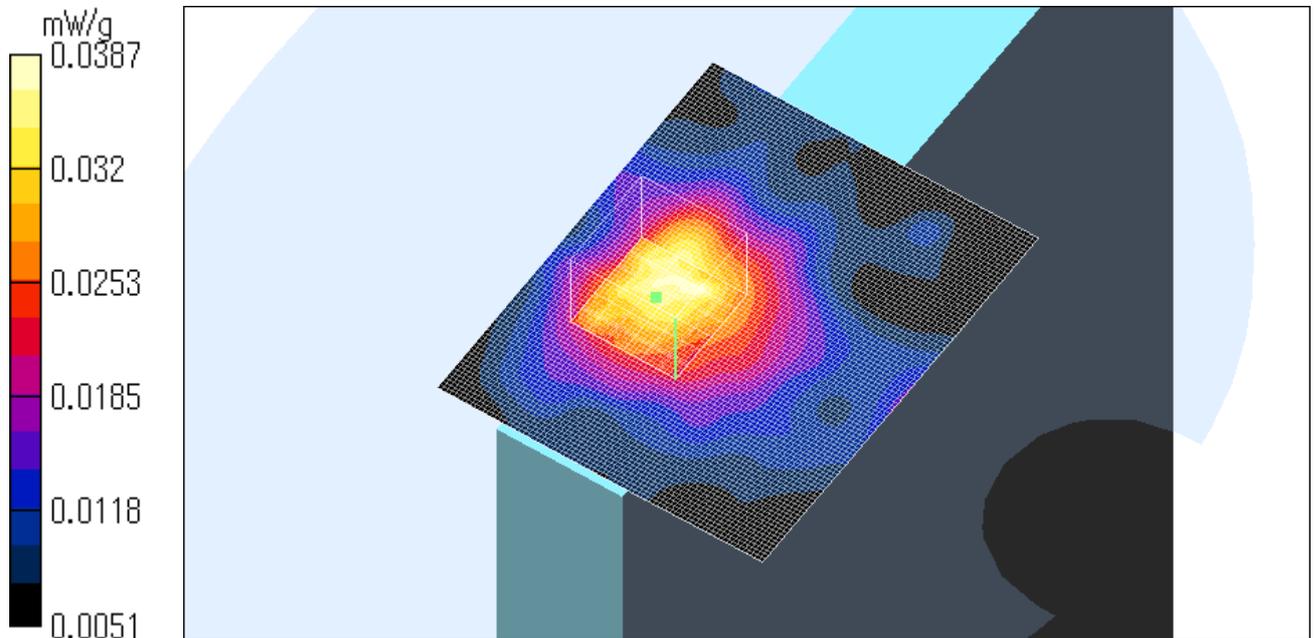
Reference Value = 3.18 V/m

Power Drift = -0.2 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 24.1 degree.C , After 24.1 degree.C



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IRF302U / Body / Left Back (Antenna 1) / 11.a(64QAM) / 5180MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.561 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.0839 mW/g

Maximum value of SAR = 0.539 mW/g

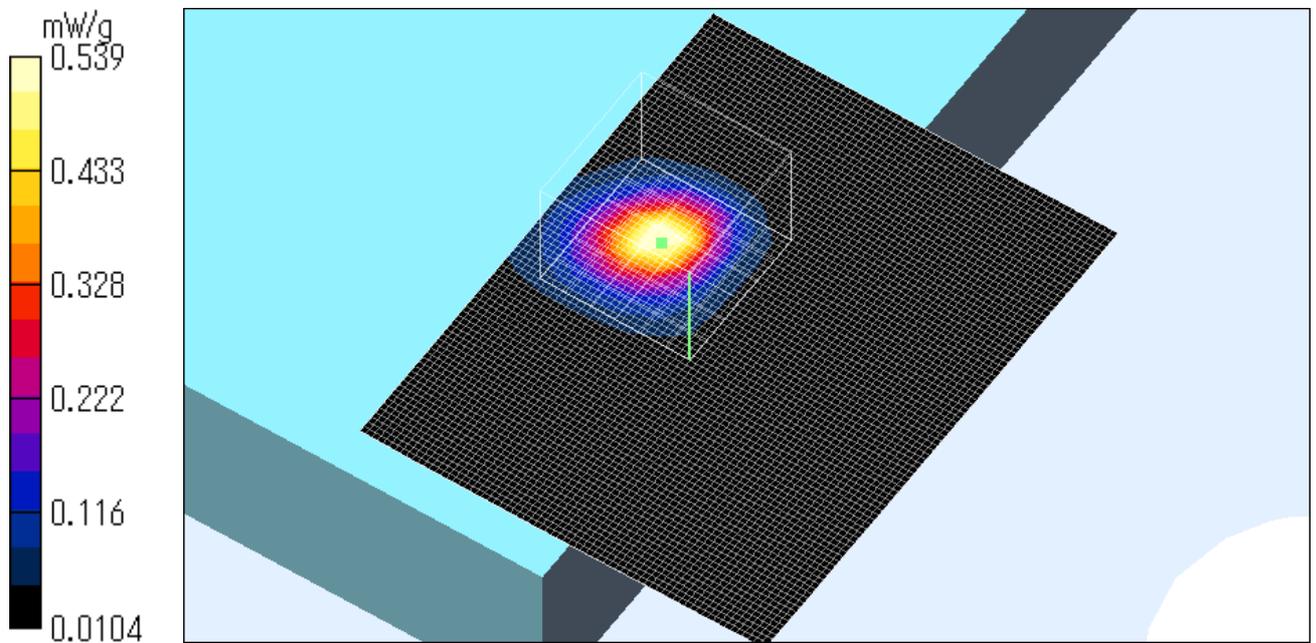
Reference Value = 2.17 V/m

Power Drift = 0.06 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



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IRF302U / Body / Left Back (Antenna 1) / 11.a(64QAM) / 5320MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 1.04 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 0.548 mW/g; SAR(10 g) = 0.155 mW/g

Maximum value of SAR = 1.1 mW/g

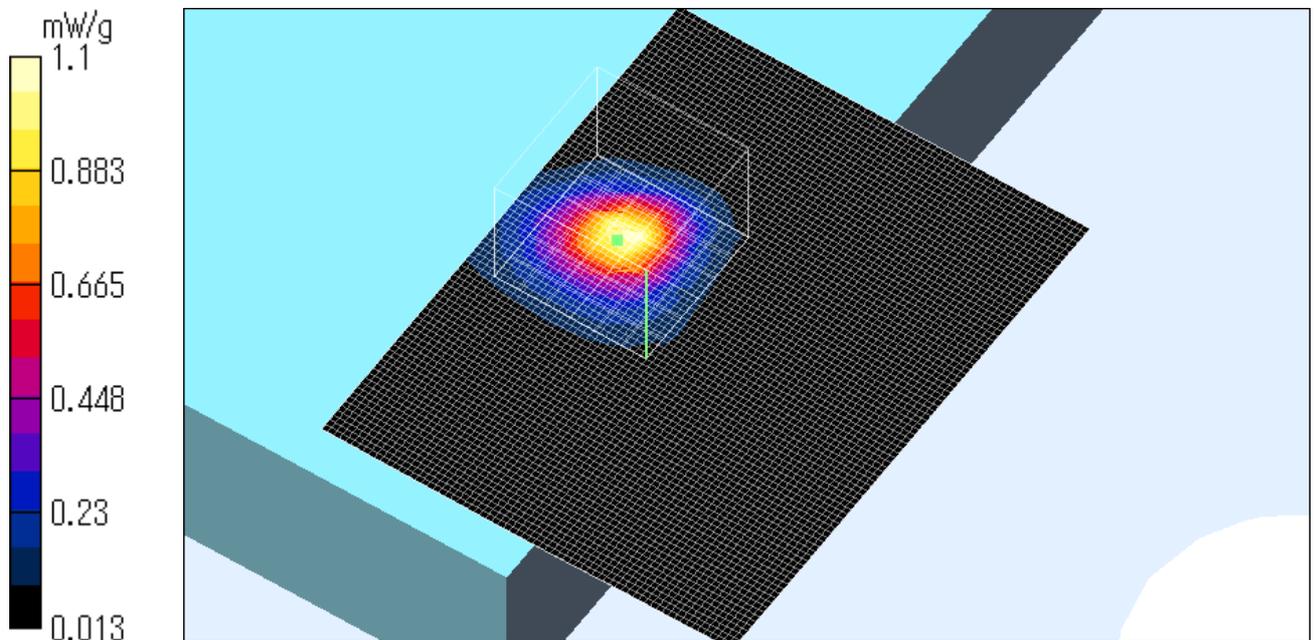
Reference Value = 3.29 V/m

Power Drift = 0.07 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



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IRF302U / Body / Left Back (Antenna 1) 5mm / 11.a(64QAM) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.316 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.0699 mW/g

Maximum value of SAR = 0.308 mW/g

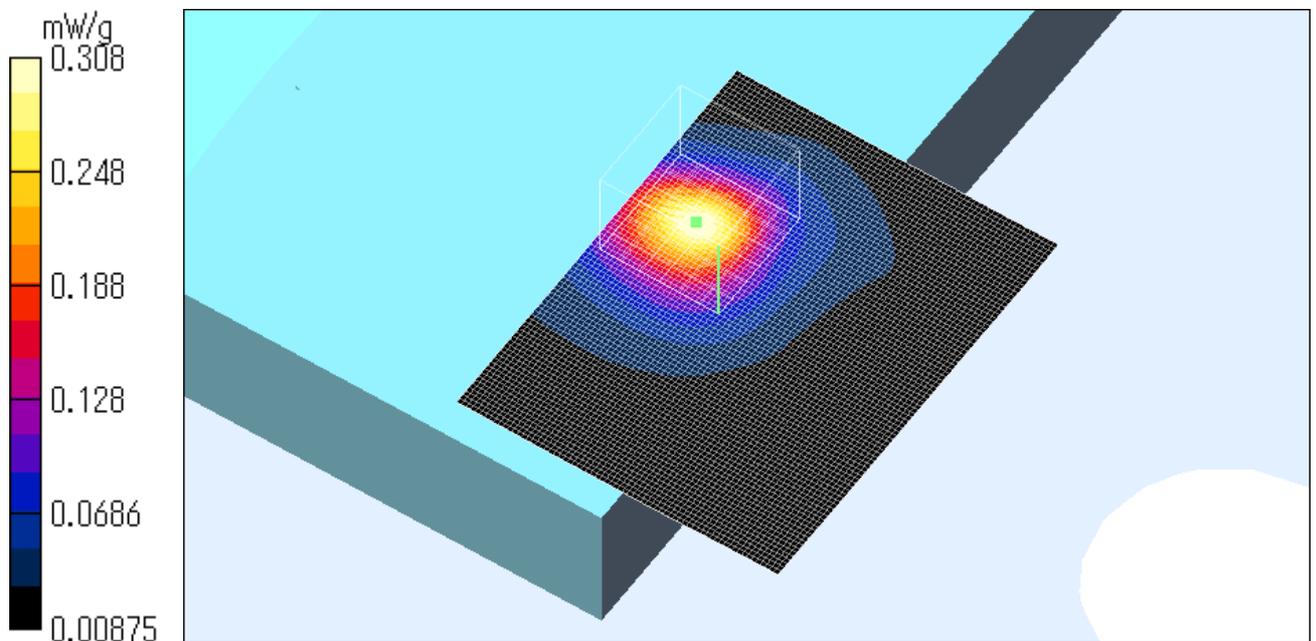
Reference Value = 3.42 V/m

Power Drift = -0.4 dB

Test Date = 06/19/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.2 degree.C , After 24.2 degree.C



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IRF302U / Body / Left Back (Antenna 1) 10mm / 11.a(64QAM) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.21 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.338 W/kg

SAR(1 g) = 0.119 mW/g; SAR(10 g) = 0.0497 mW/g

Maximum value of SAR = 0.203 mW/g

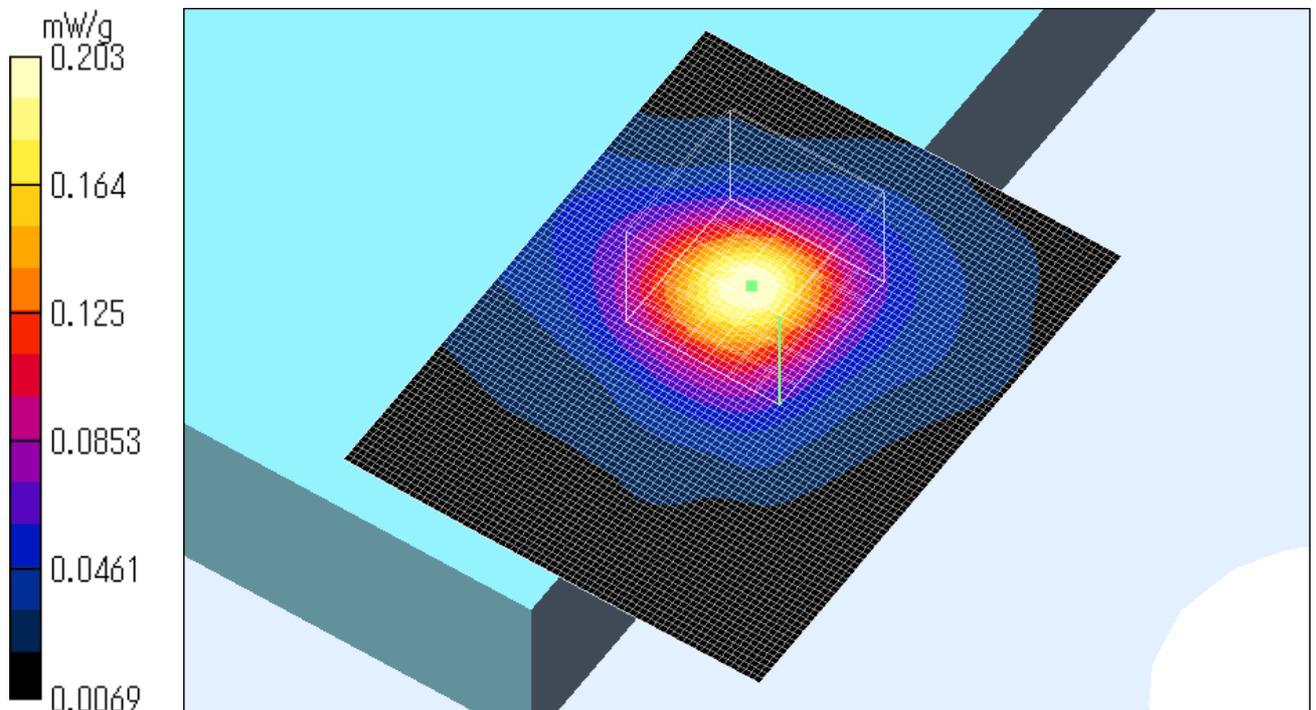
Reference Value = 5.02 V/m

Power Drift = -0.2 dB

Test Date = 06/19/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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IRF302U / Body / Left Back (Antenna 1) 15mm / 11.a(64QAM) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.118 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.213 W/kg

SAR(1 g) = 0.0703 mW/g; SAR(10 g) = 0.0328 mW/g

Maximum value of SAR = 0.114 mW/g

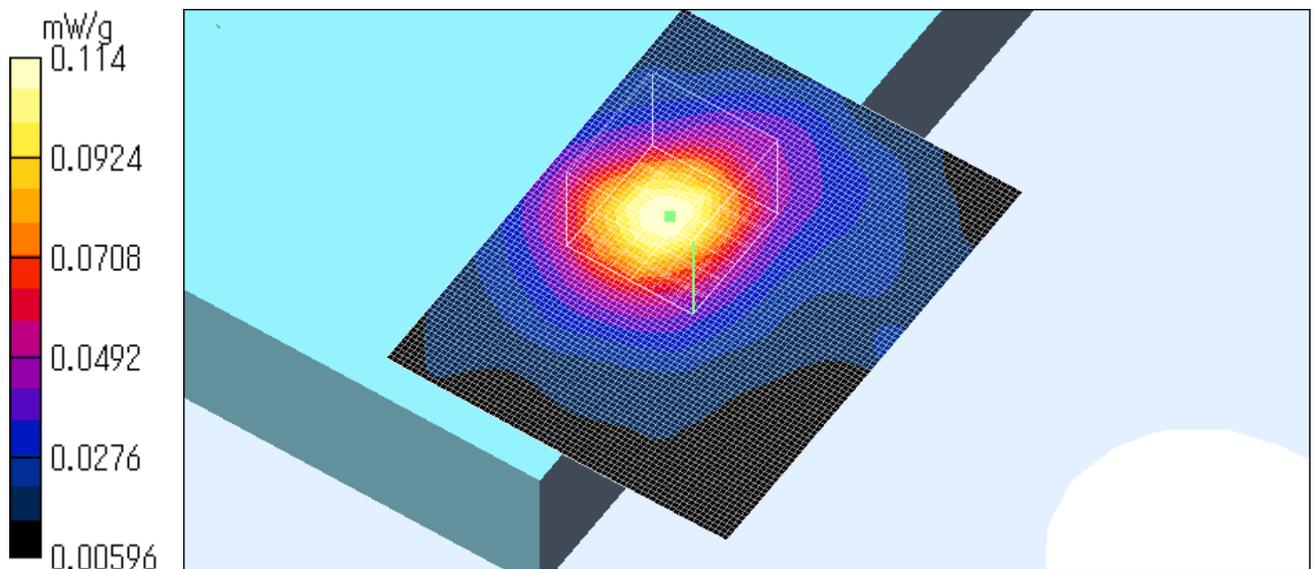
Reference Value = 3.71 V/m

Power Drift = -0.3 dB

Test Date = 06/19/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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IRF302U / Body / Left Front (Antenna 1) / 11.a(QPSK) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.042 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.0744 W/kg

SAR(1 g) = 0.0314 mW/g; SAR(10 g) = 0.0222 mW/g

Maximum value of SAR = 0.0433 mW/g

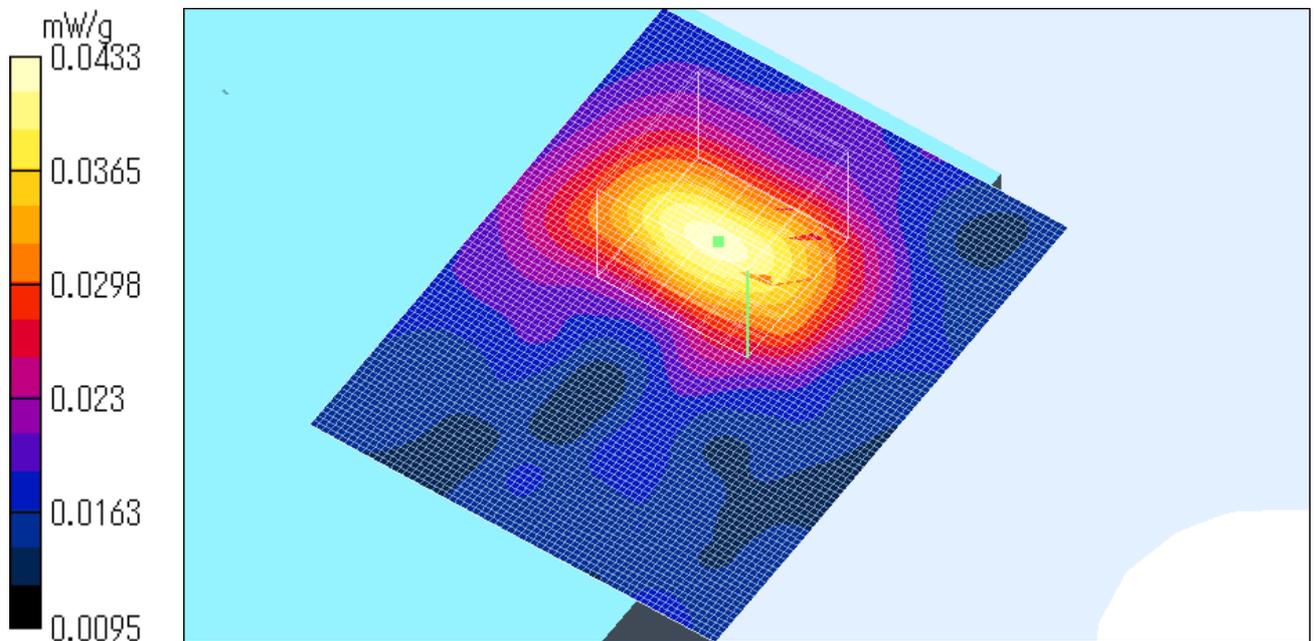
Reference Value = 2.36 V/m

Power Drift = -0.4 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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IRF302U / Body / Left Back (Antenna 1) / 11.a(QPSK) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 1.09 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 0.525 mW/g; SAR(10 g) = 0.14 mW/g

Maximum value of SAR = 1.01 mW/g

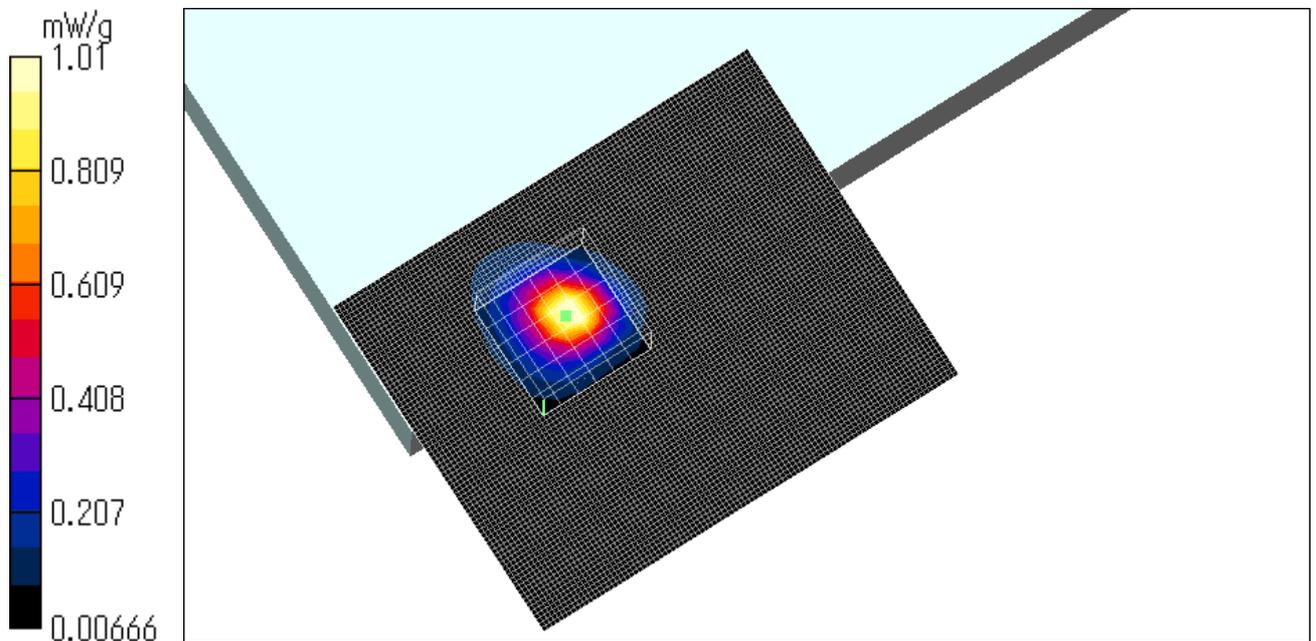
Reference Value = 7 V/m

Power Drift = -0.01 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 23.9 degree.C , After 23.9 degree.C



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IRF302U / Body / Left Side (Antenna 1) / 11.a(QPSK) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.0617 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.119 W/kg

SAR(1 g) = 0.0389 mW/g; SAR(10 g) = 0.0206 mW/g

Maximum value of SAR = 0.0626 mW/g

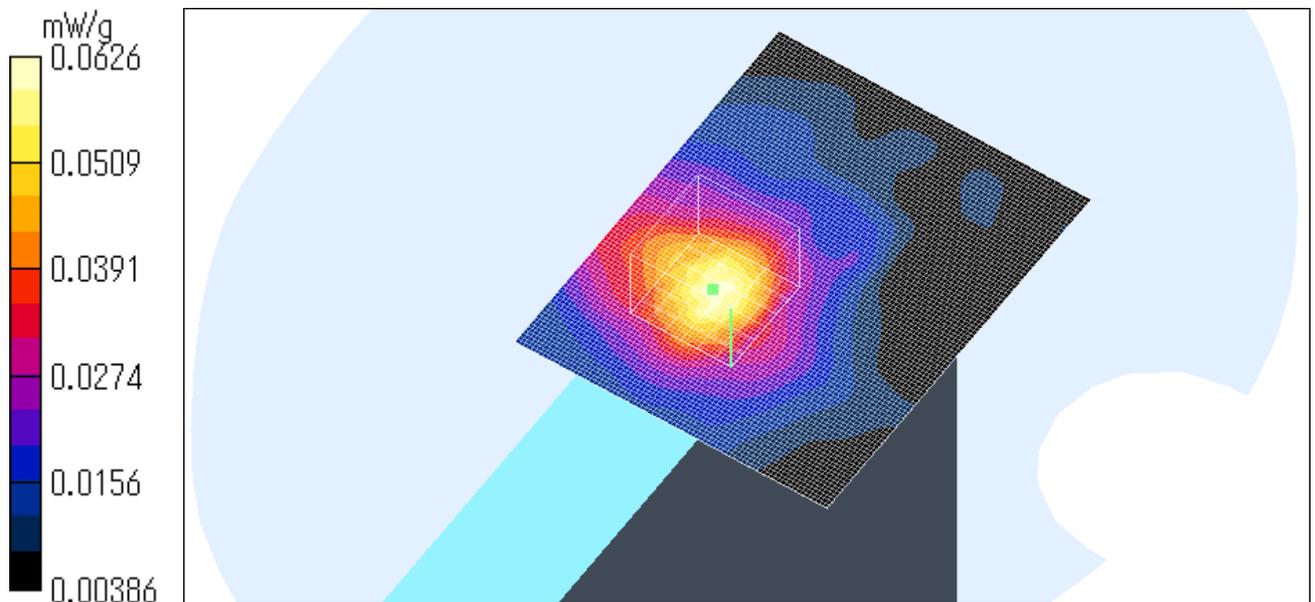
Reference Value = 2.92 V/m

Power Drift = -0.1 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.a(QPSK) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 1.4 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 2.39 W/kg

SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.208 mW/g

Maximum value of SAR = 1.34 mW/g

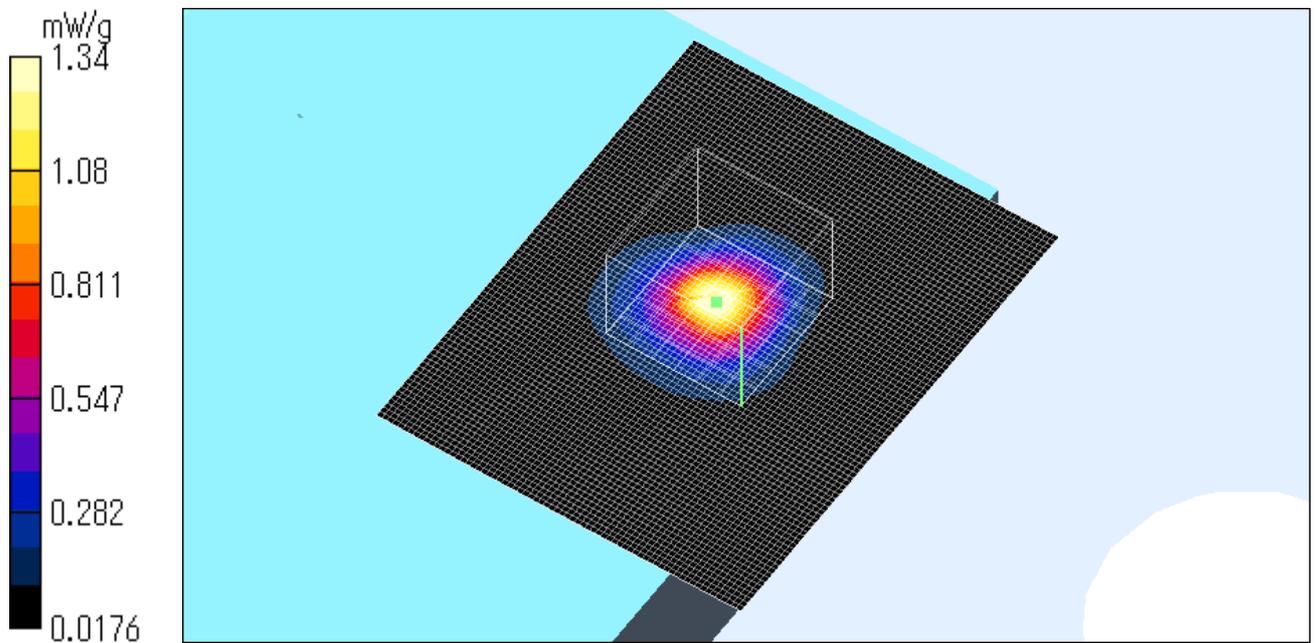
Reference Value = 14.2 V/m

Power Drift = -0.08 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



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IRF302U / Body / Right Back (Antenna 2) / 11.a(QPSK) / 5260MHz

Crest factor: 1
Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

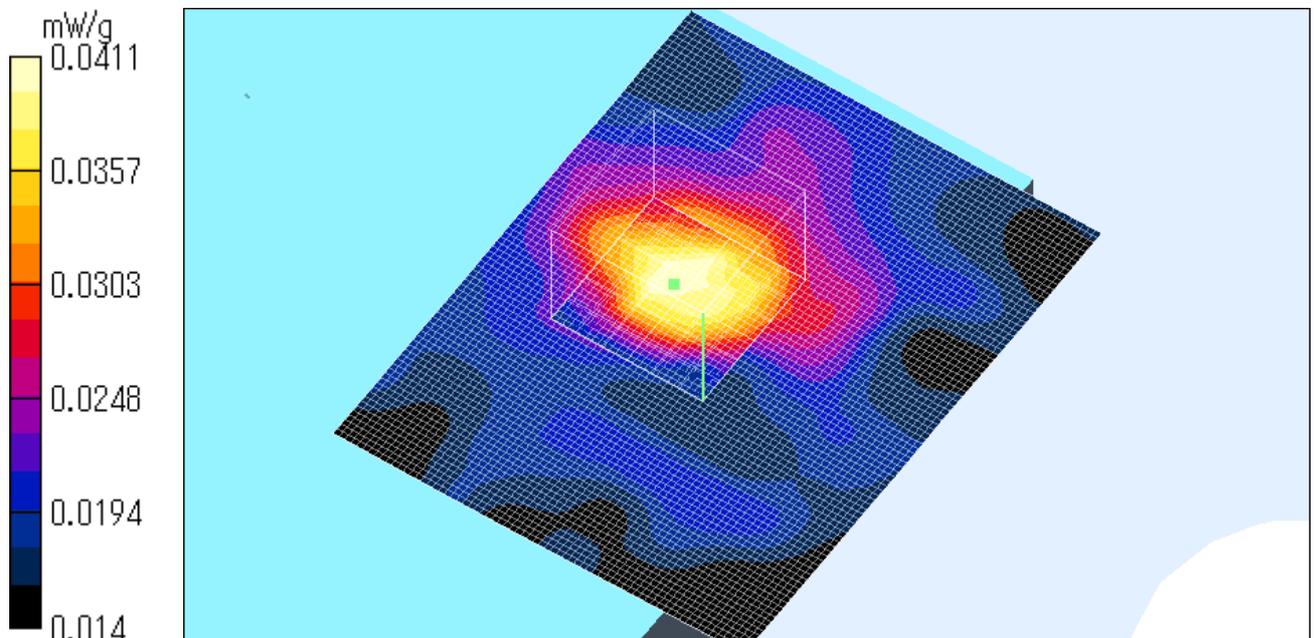
DASY4 Configuration:
- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR = 0.0421 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Peak SAR (extrapolated) = 0.0728 W/kg
SAR(1 g) = 0.0318 mW/g; SAR(10 g) = 0.0229 mW/g
Maximum value of SAR = 0.0411 mW/g

Reference Value = 2.58 V/m
Power Drift = -0.3 dB

Test Date = 06/17/04
Ambient Temperature = 24.2 degree.c
Liquid Temperature = Before 23.9 degree.C , After 23.9 degree.C



IRF302U / Body / Right Side (Antenna 2) / 11.a(QPSK) / 5260MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (81x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.0672 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.138 W/kg

SAR(1 g) = 0.0425 mW/g; SAR(10 g) = 0.0224 mW/g

Maximum value of SAR = 0.0659 mW/g

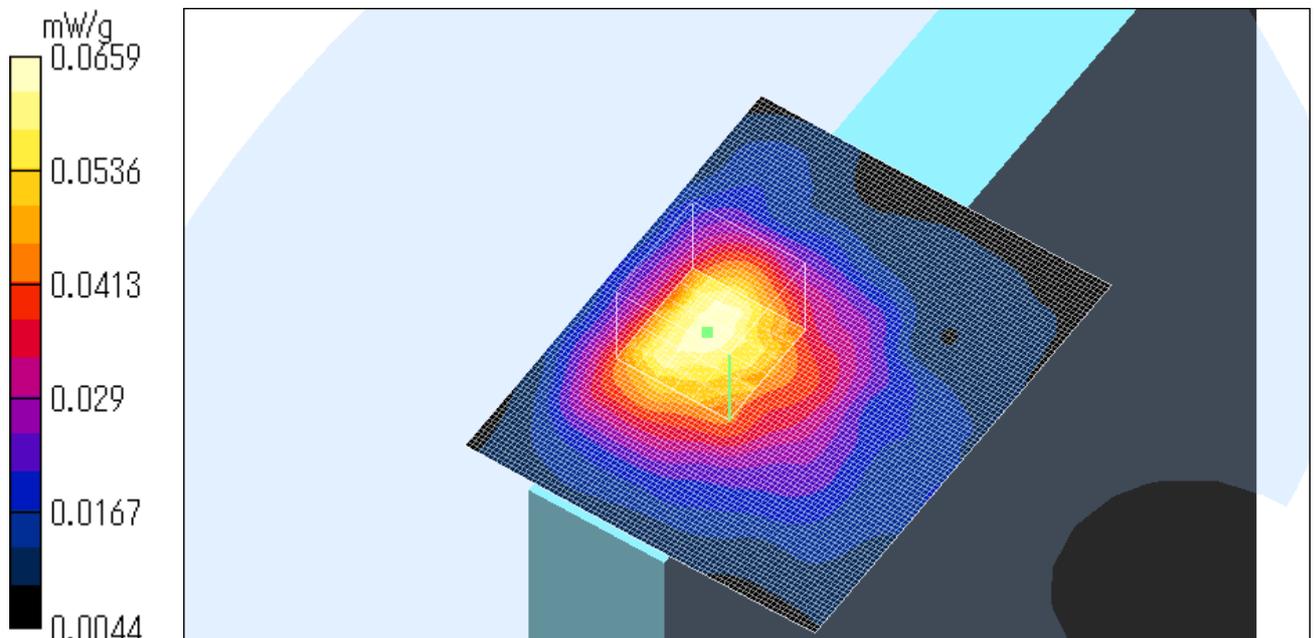
Reference Value = 3.63 V/m

Power Drift = -0.2 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 24.1 degree.C , After 24.1 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.a (QPSK) / 5180MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5$ mho/m, $\epsilon_r = 48.7$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.575 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.98 W/kg

SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.086 mW/g

Maximum value of SAR = 0.521 mW/g

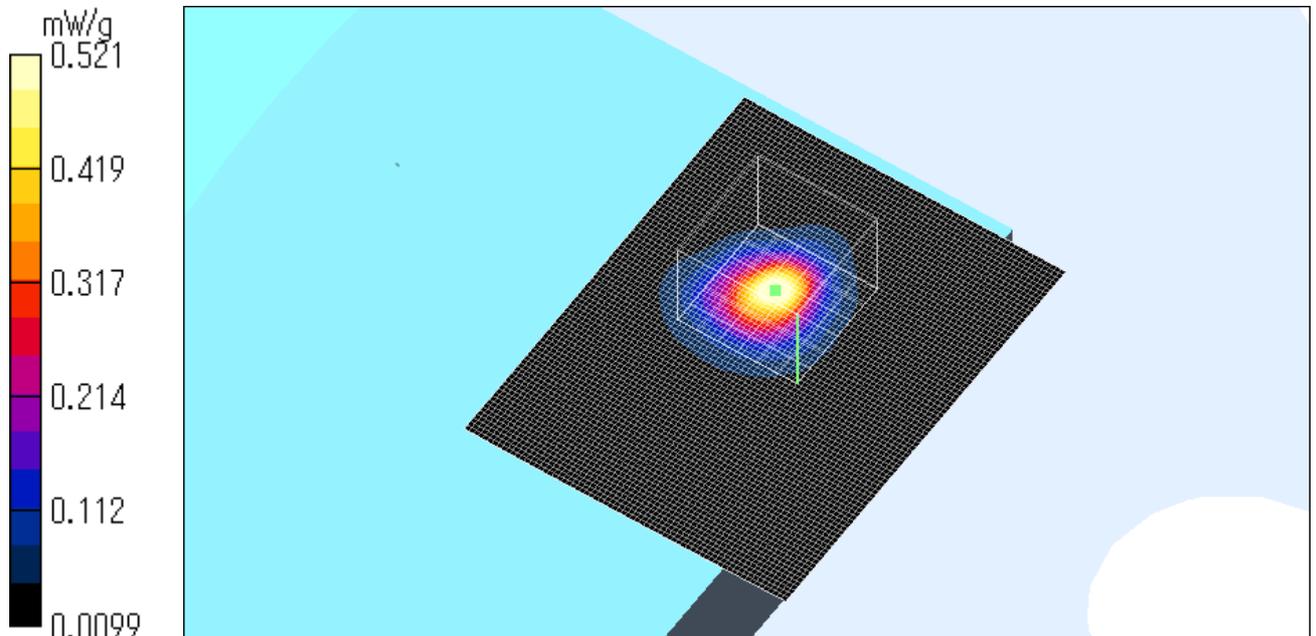
Reference Value = 5.42 V/m

Power Drift = -0.4 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



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IRF302U / Body / Right Side (Antenna 2) / 11.a(QPSK) / 5320MHz

Crest factor: 1

Medium: M5200 ($\sigma = 5.5 \text{ mho/m}$, $\epsilon_r = 48.7$, $\rho = 1000 \text{ kg/m}^3$)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 1.04 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.503 mW/g; SAR(10 g) = 0.152 mW/g

Maximum value of SAR = 0.921 mW/g

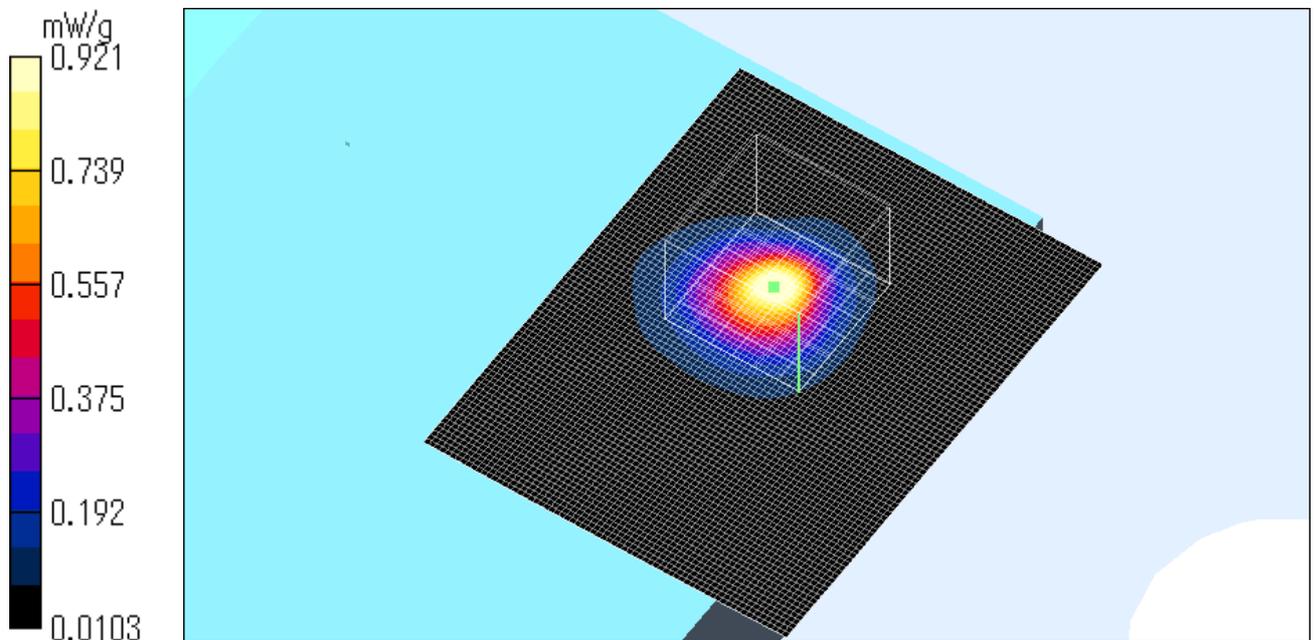
Reference Value = 7.94 V/m

Power Drift = -0.3 dB

Test Date = 06/17/04

Ambient Temperature = 24.2 degree.c

Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



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APPENDIX 4 : SAR Measurement data (IEEE 802.11a : 5.725-5.825GHz)

IRF302U / Body / Left Front (Antenna 1) / 11.a(64QAM) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.0814 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.0559 mW/g; SAR(10 g) = 0.0343 mW/g

Maximum value of SAR = 0.0794 mW/g

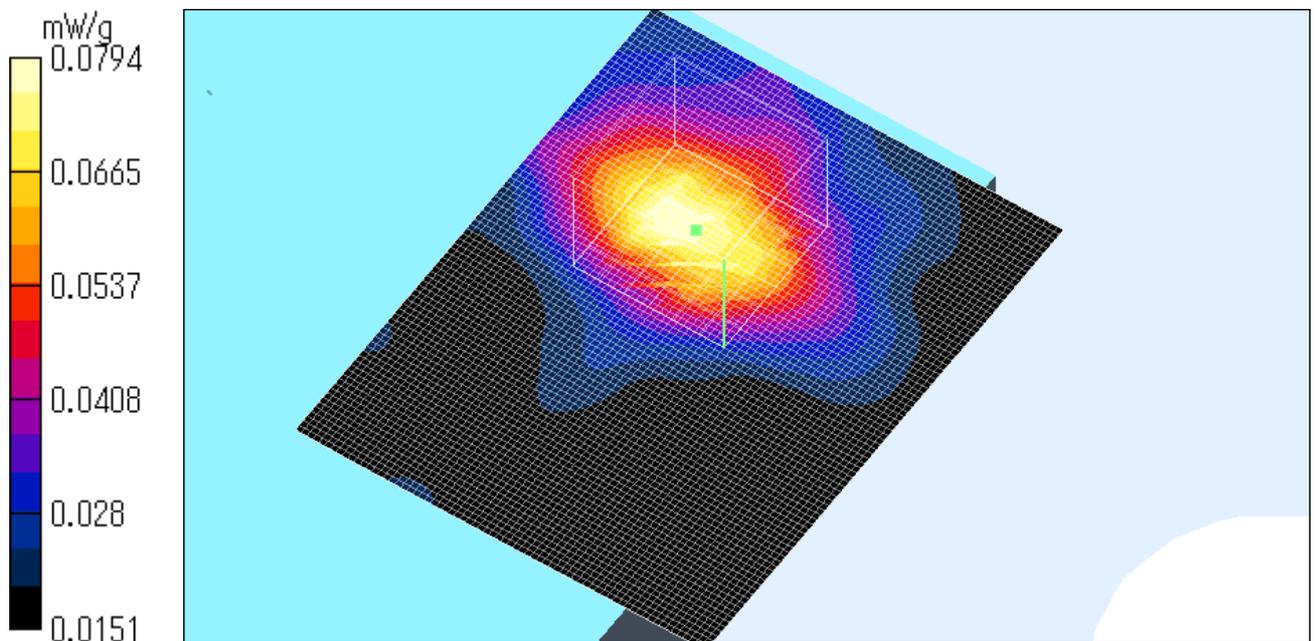
Reference Value = 2.26 V/m

Power Drift = 0.2 dB

Test Date = 06/18/04

Ambient Temperature = 24.5degree.c

Liquid Temperature = Before 24.1 degree.C , After 24.1 degree.C



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IRF302U / Body / Left Back (Antenna 1) / 11.a(64QAM) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.478 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.266 mW/g; SAR(10 g) = 0.0882 mW/g

Maximum value of SAR = 0.485 mW/g

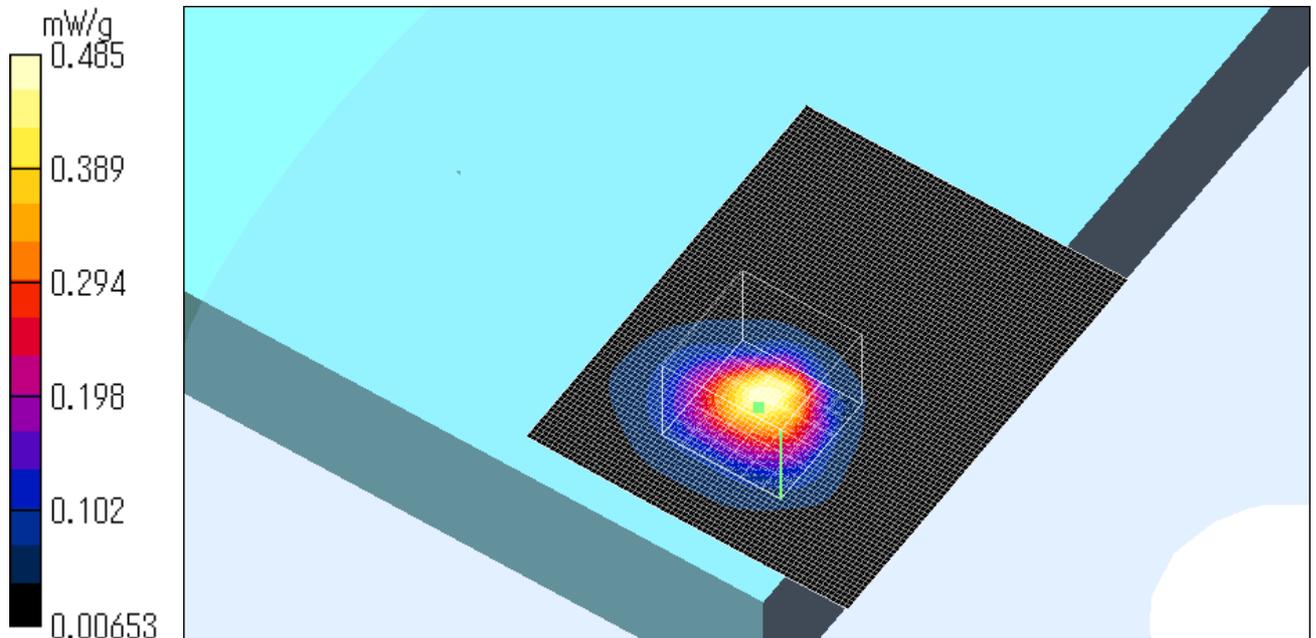
Reference Value = 2.93 V/m

Power Drift = -0.3 dB

Test Date = 06/18/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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IRF302U / Body / Left Side (Antenna 1) / 11.a(64QAM) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3 \text{ mho/m}$, $\epsilon_r = 47.9$, $\rho = 1000 \text{ kg/m}^3$)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.0386 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.0885 W/kg

SAR(1 g) = 0.0259 mW/g; SAR(10 g) = 0.0166 mW/g

Maximum value of SAR = 0.0362 mW/g

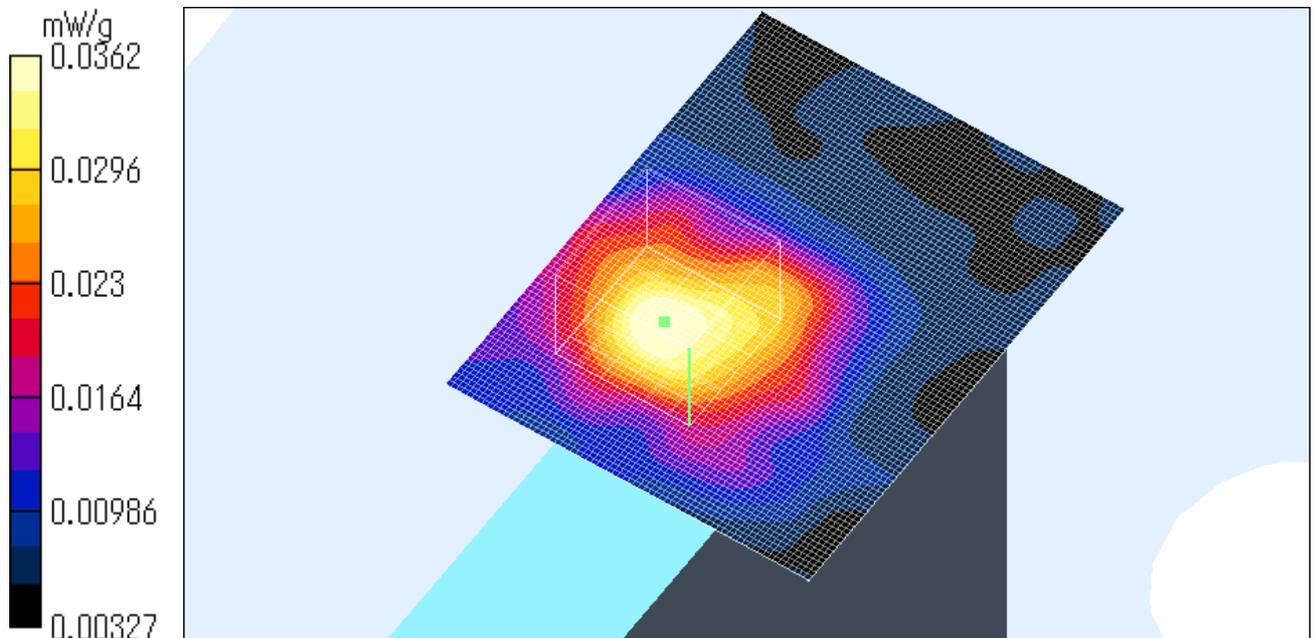
Reference Value = 2.14 V/m

Power Drift = -0.04 dB

Test Date = 06/18/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.1 degree.C , After 24.1 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.a(64QAM) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.557 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.921 W/kg

SAR(1 g) = 0.273 mW/g; SAR(10 g) = 0.106 mW/g

Maximum value of SAR = 0.474 mW/g

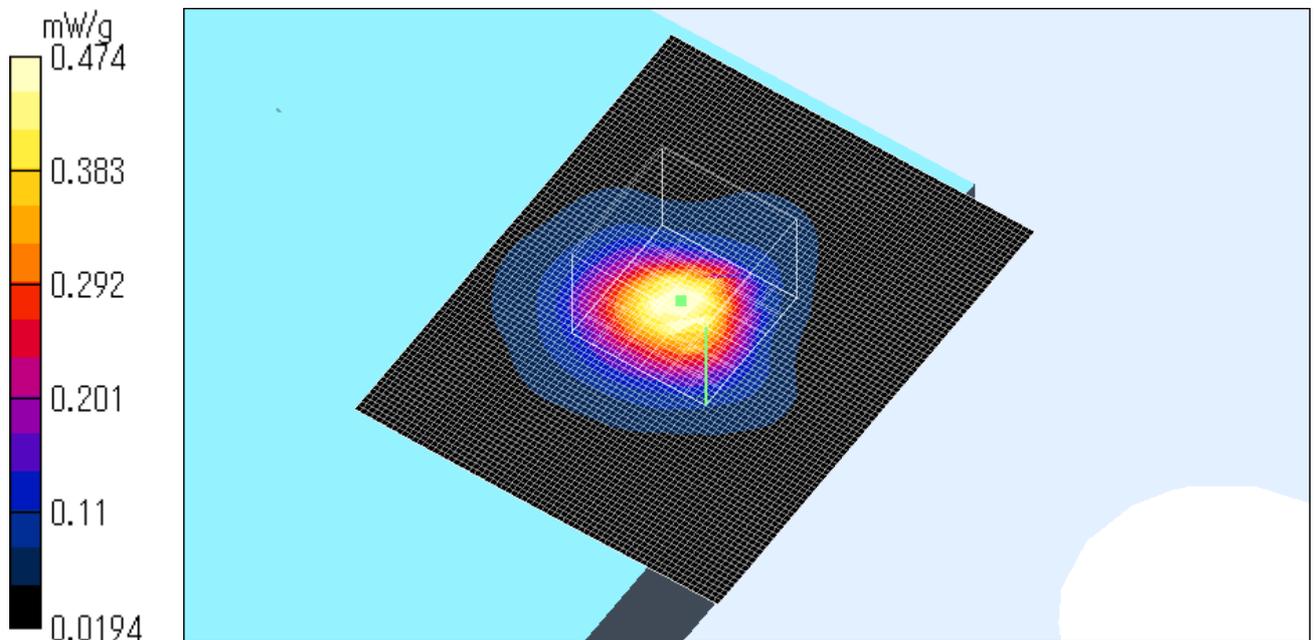
Reference Value = 9.09 V/m

Power Drift = -0.08 dB

Test Date = 06/18/04

Ambient Temperature = 24.5degree.c

Liquid Temperature = Before 23.8 degree.C , After 23.8 degree.C



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Z-axis scan at max SAR location

IRF302U / Body / Right Front (Antenna 2) / 11.a(64QAM) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

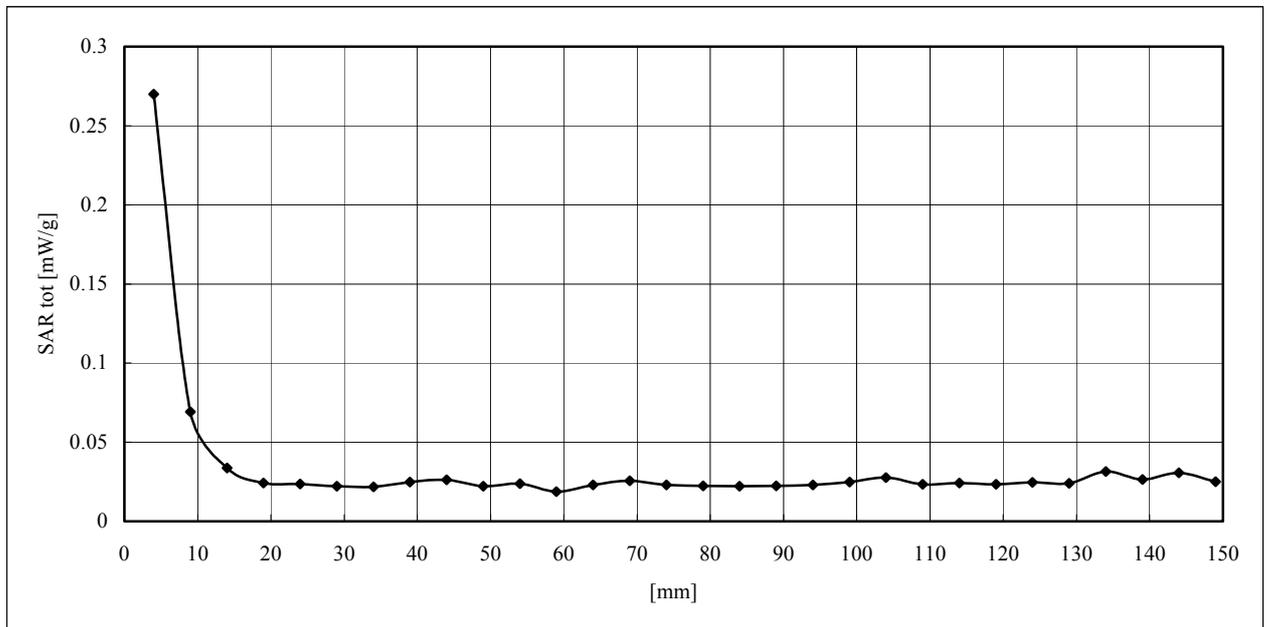
DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115



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IRF302U / Body / Right Back (Antenna 2) / 11.a(64QAM) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3 \text{ mho/m}$, $\epsilon_r = 47.9$, $\rho = 1000 \text{ kg/m}^3$)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.0221 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.0336 W/kg

SAR(1 g) = 0.0234 mW/g; SAR(10 g) = 0.0208 mW/g

Maximum value of SAR = 0.0349 mW/g

Zoom Scan (7x7x8)/Cube 1: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.036 W/kg

SAR(1 g) = 0.0223 mW/g; SAR(10 g) = 0.0204 mW/g

Maximum value of SAR = 0.0383 mW/g

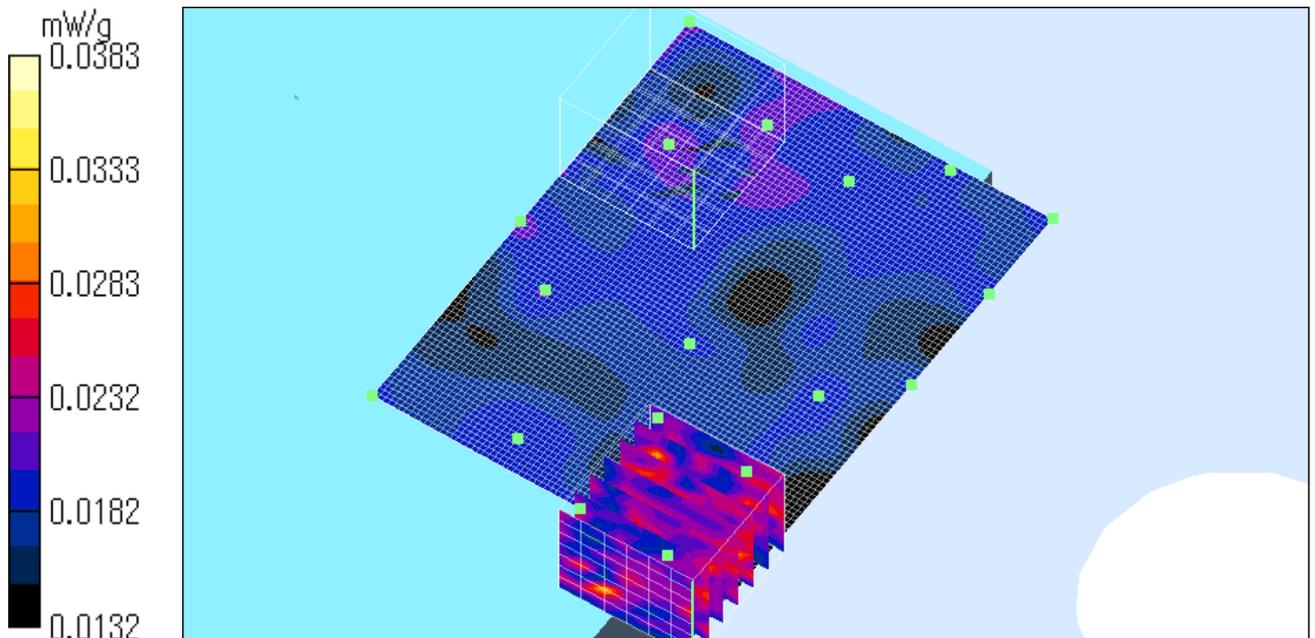
Reference Value = 1.5 V/m

Power Drift = 0.4 dB

Test Date = 06/18/04

Ambient Temperature = 24.5degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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IRF302U / Body / Right Side (Antenna 2) / 11.a(64QAM) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.108 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.192 W/kg

SAR(1 g) = 0.0617 mW/g; SAR(10 g) = 0.0317 mW/g

Maximum value of SAR = 0.106 mW/g

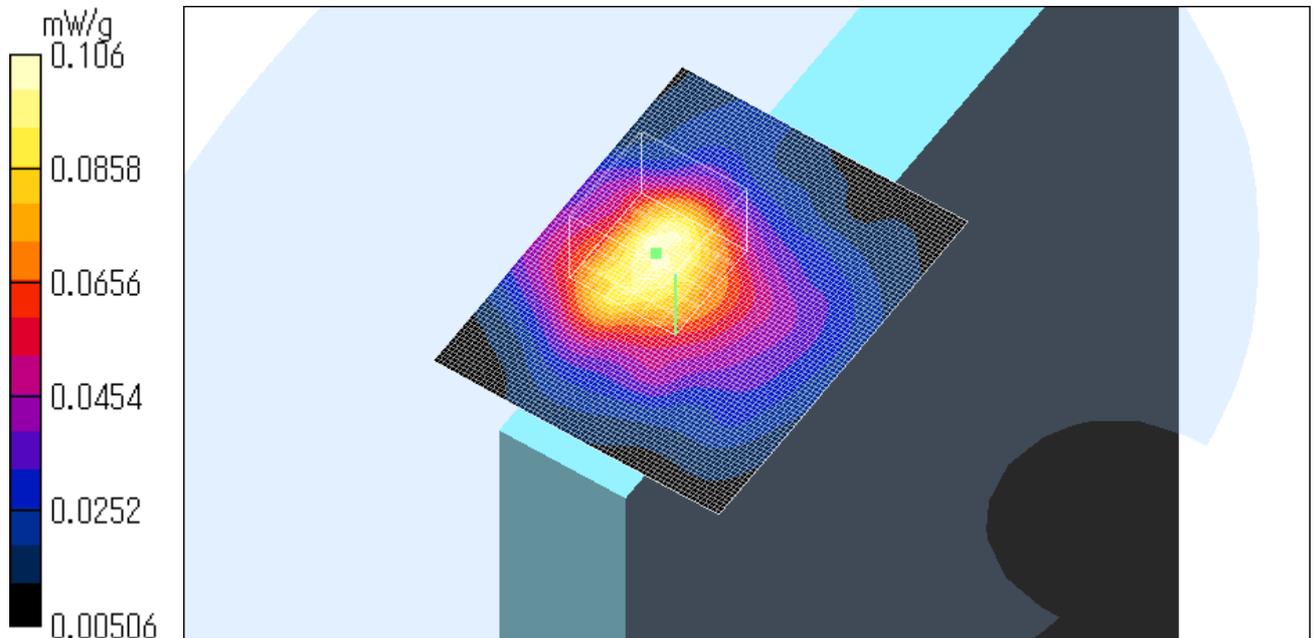
Reference Value = 3.85 V/m

Power Drift = -0.2 dB

Test Date = 06/18/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.2 degree.C , After 24.2 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.a (64QAM) / 5745MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.261 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.533 W/kg

SAR(1 g) = 0.14 mW/g; SAR(10 g) = 0.0524 mW/g

Maximum value of SAR = 0.242 mW/g

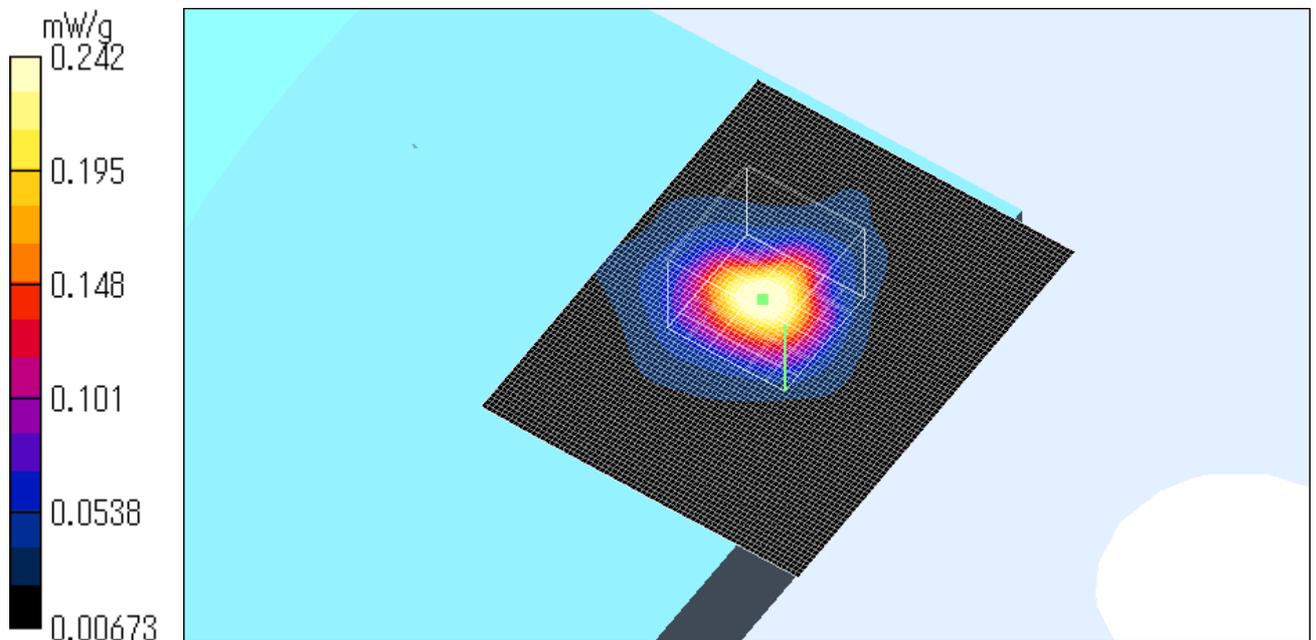
Reference Value = 6.81 V/m

Power Drift = -0.2 dB

Test Date = 06/18/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.4 degree.C , After 24.4 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.a(64QAM) / 5805MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.422 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.879 W/kg

SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.0878 mW/g

Maximum value of SAR = 0.432 mW/g

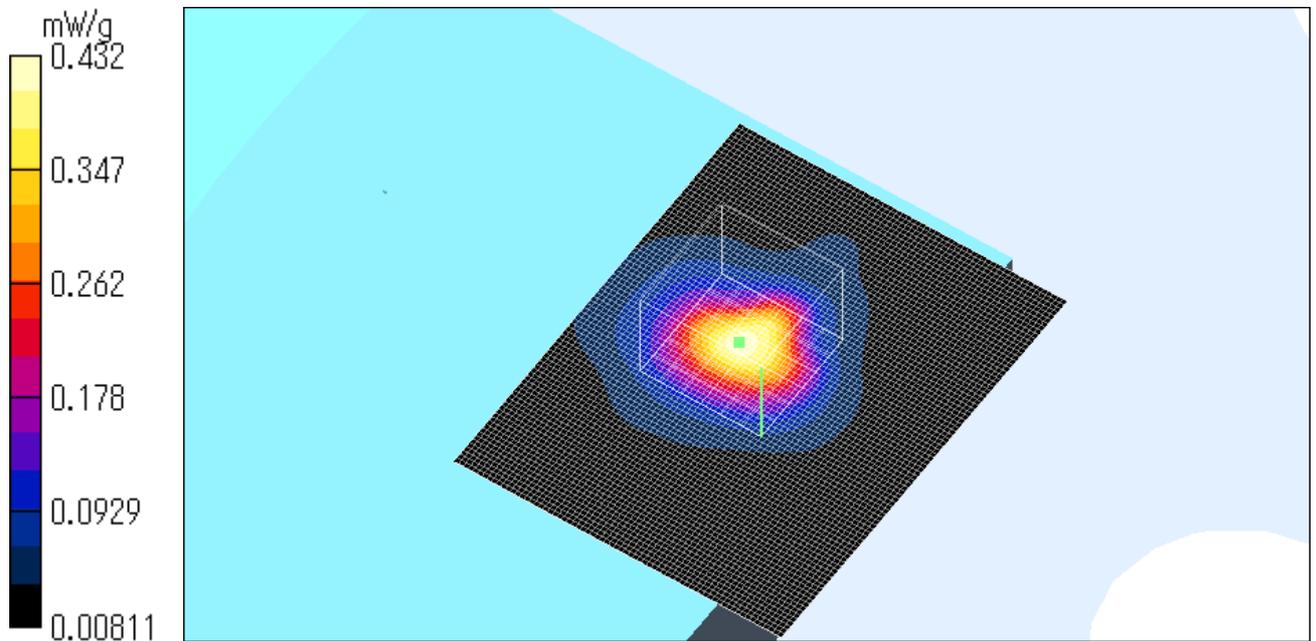
Reference Value = 7.48 V/m

Power Drift = -0.2 dB

Test Date = 06/18/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.4 degree.C , After 24.4 degree.C



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IRF302U / Body / Left Front (Antenna 1) / 11.a(QPSK) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.0764 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 g) = 0.0512 mW/g; SAR(10 g) = 0.0323 mW/g

Maximum value of SAR = 0.0736 mW/g

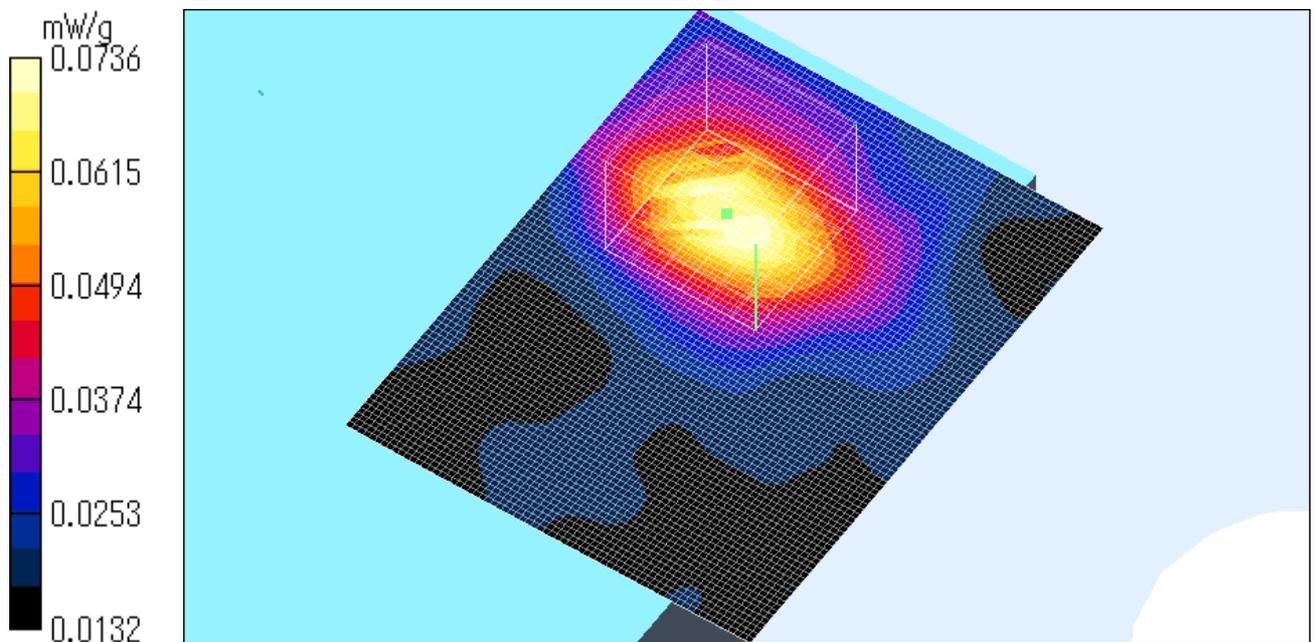
Reference Value = 2.43 V/m

Power Drift = -0.4 dB

Test Date = 06/18/04

Ambient Temperature = 24.5degree.c

Liquid Temperature = Before 24.1 degree.C , After 24.1 degree.C



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IRF302U / Body / Left Back (Antenna 1) / 11.a(QPSK) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.466 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.968 W/kg

SAR(1 g) = 0.254 mW/g; SAR(10 g) = 0.0856 mW/g

Maximum value of SAR = 0.471 mW/g

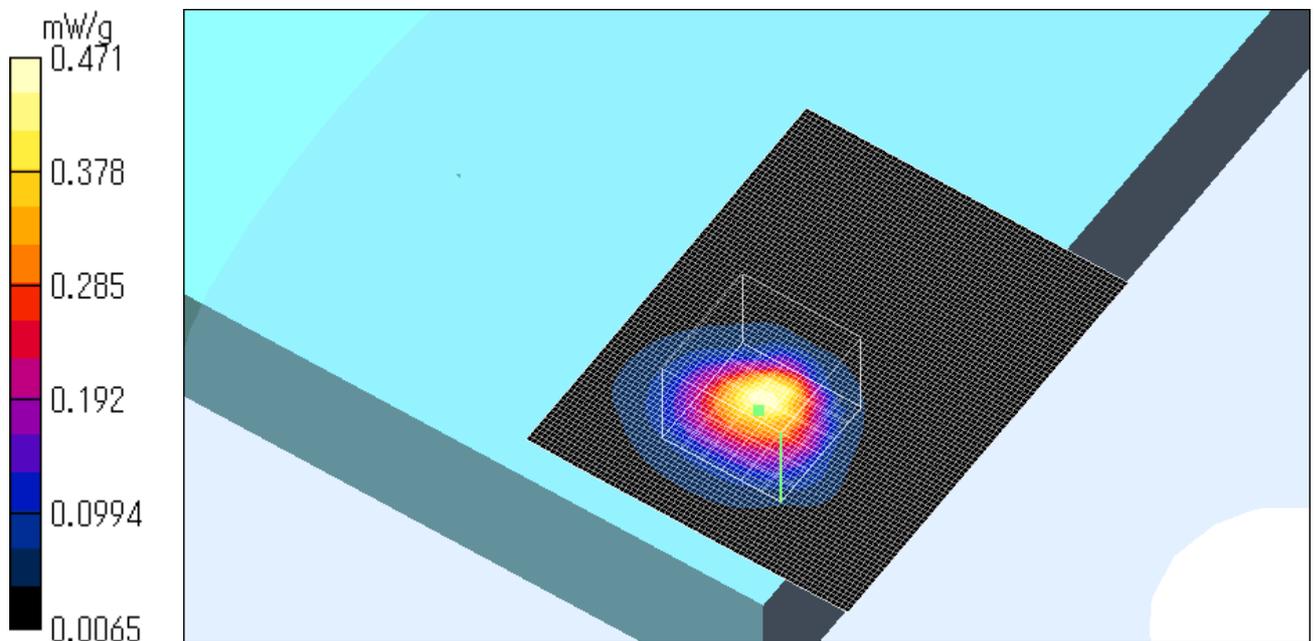
Reference Value = 2.96 V/m

Power Drift = -0.4 dB

Test Date = 06/18/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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IRF302U / Body / Left Side (Antenna 1) / 11.a(QPSK) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.074 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.167 W/kg

SAR(1 g) = 0.0468 mW/g; SAR(10 g) = 0.0247 mW/g

Maximum value of SAR = 0.0762 mW/g

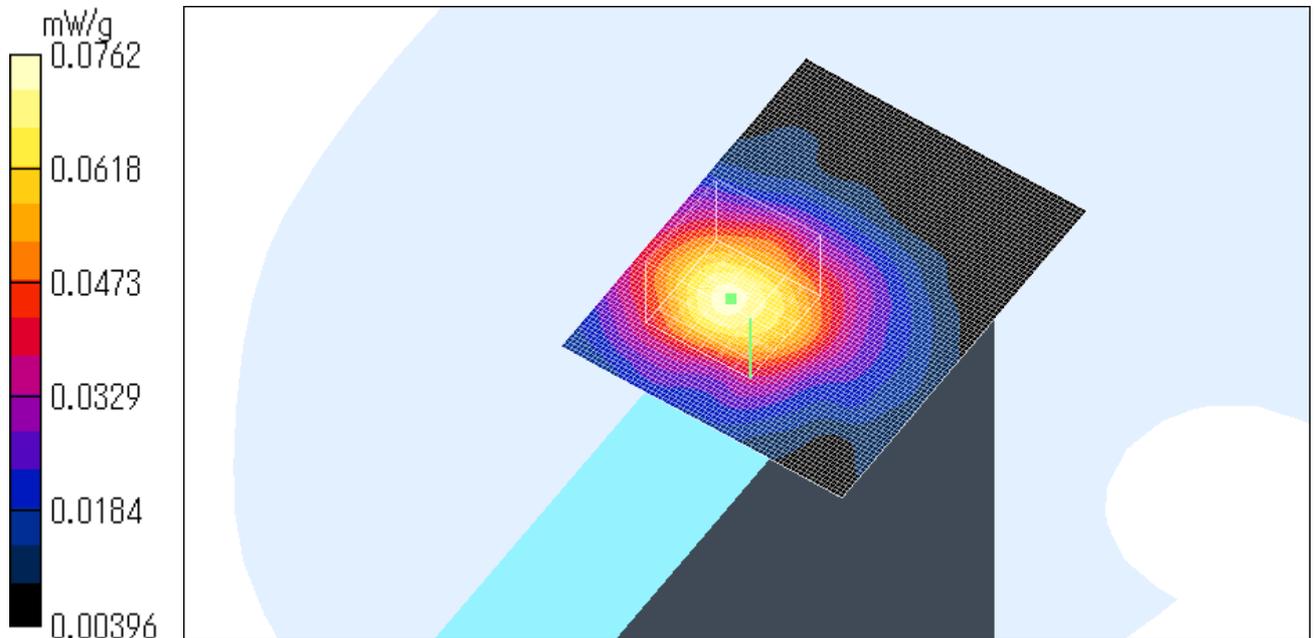
Reference Value = 2.98 V/m

Power Drift = -0.2 dB

Test Date = 06/18/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.1degree.C , After 24.1 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.a(QPSK) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.569 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.927 W/kg

SAR(1 g) = 0.273 mW/g; SAR(10 g) = 0.107 mW/g

Power Drift = -0.07 dB

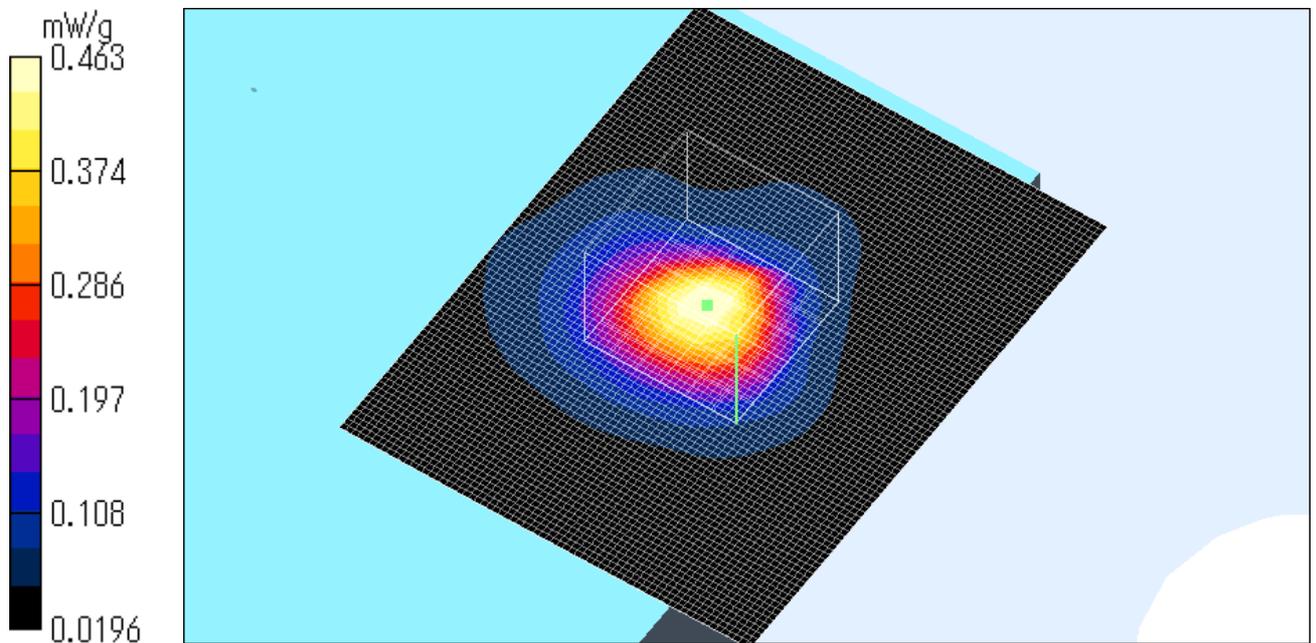
Reference Value = 9.02 V/m

Maximum value of SAR = 0.463 mW/g

Test Date = 06/18/04

Ambient Temperature = 24.5degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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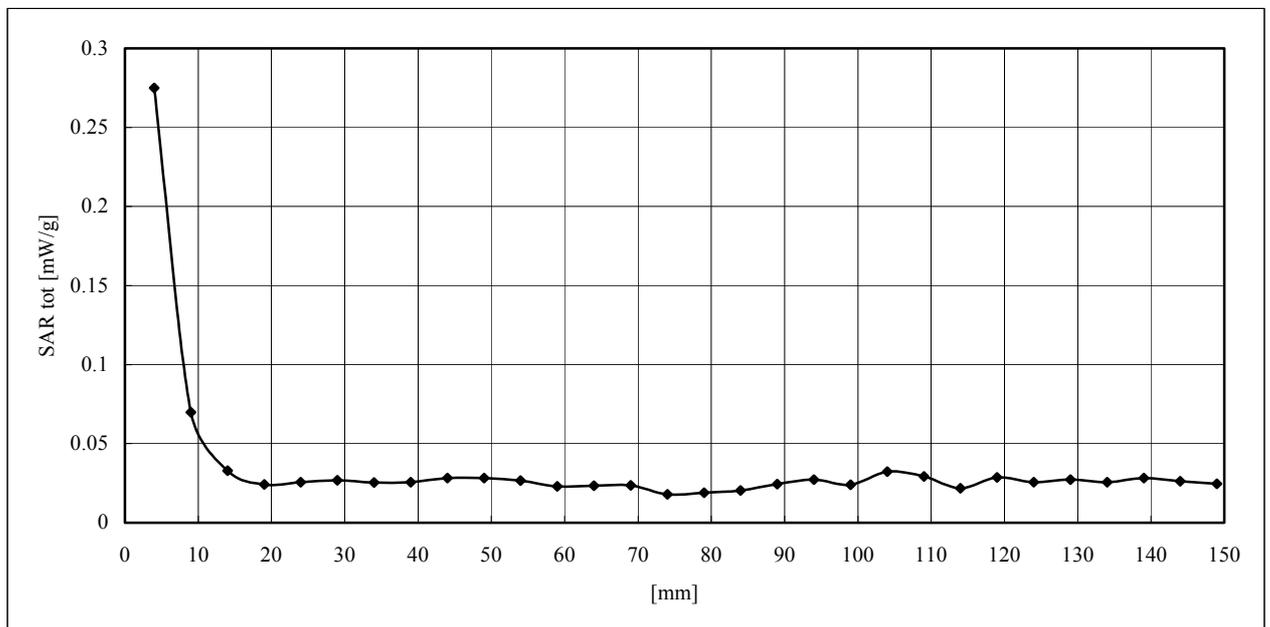
Facsimile: +81 596 24 8124

Z-axis scan at max SAR location

Crest factor: 1
Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: SAM 1196
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115



IRF302U / Body / Right Back (Antenna 2) / 11.a(QPSK) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.0232 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.0366 W/kg

SAR(1 g) = 0.0241 mW/g; SAR(10 g) = 0.0213 mW/g

Maximum value of SAR = 0.0375 mW/g

Zoom Scan (7x7x8)/Cube 1: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.0378 W/kg

SAR(1 g) = 0.0272 mW/g; SAR(10 g) = 0.0231 mW/g

Maximum value of SAR = 0.0391 mW/g

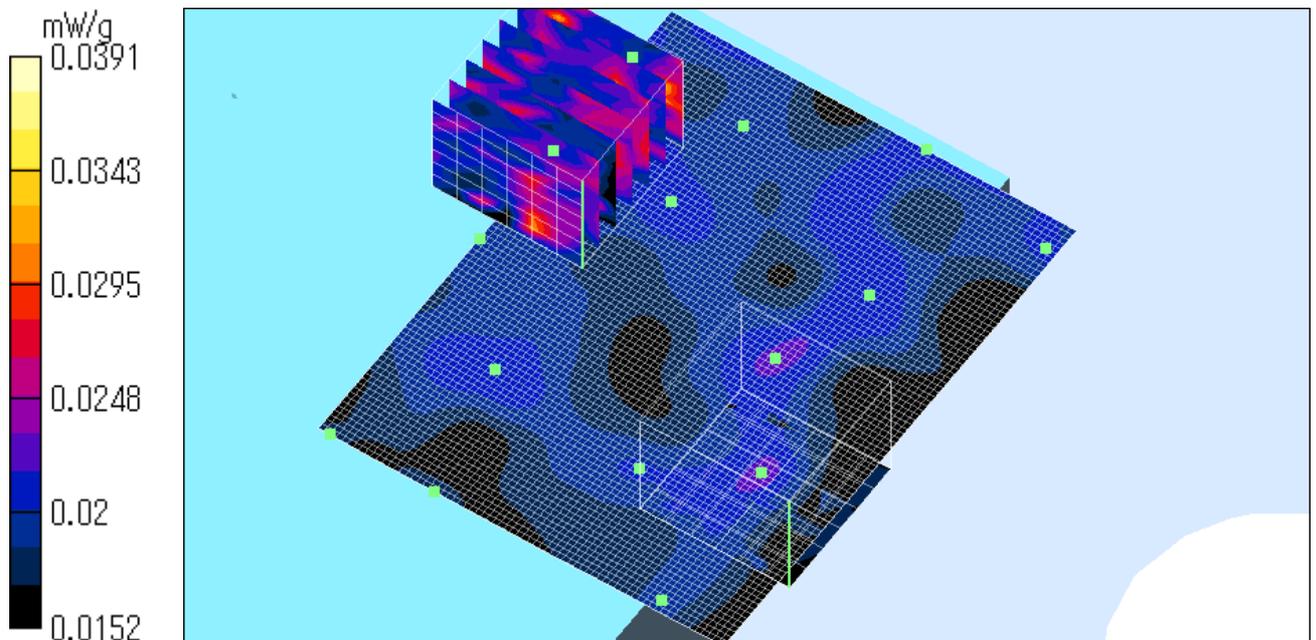
Reference Value = 1.58 V/m

Power Drift = 0.4 dB

Test Date = 06/18/04

Ambient Temperature = 24.5degree.c

Liquid Temperature = Before 24.1 degree.C , After 24.1 degree.C



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IRF302U / Body / Right Side (Antenna 2) / 11.a(QPSK) / 5765MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.104 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.207 W/kg

SAR(1 g) = 0.0606 mW/g; SAR(10 g) = 0.0316 mW/g

Maximum value of SAR = 0.1 mW/g

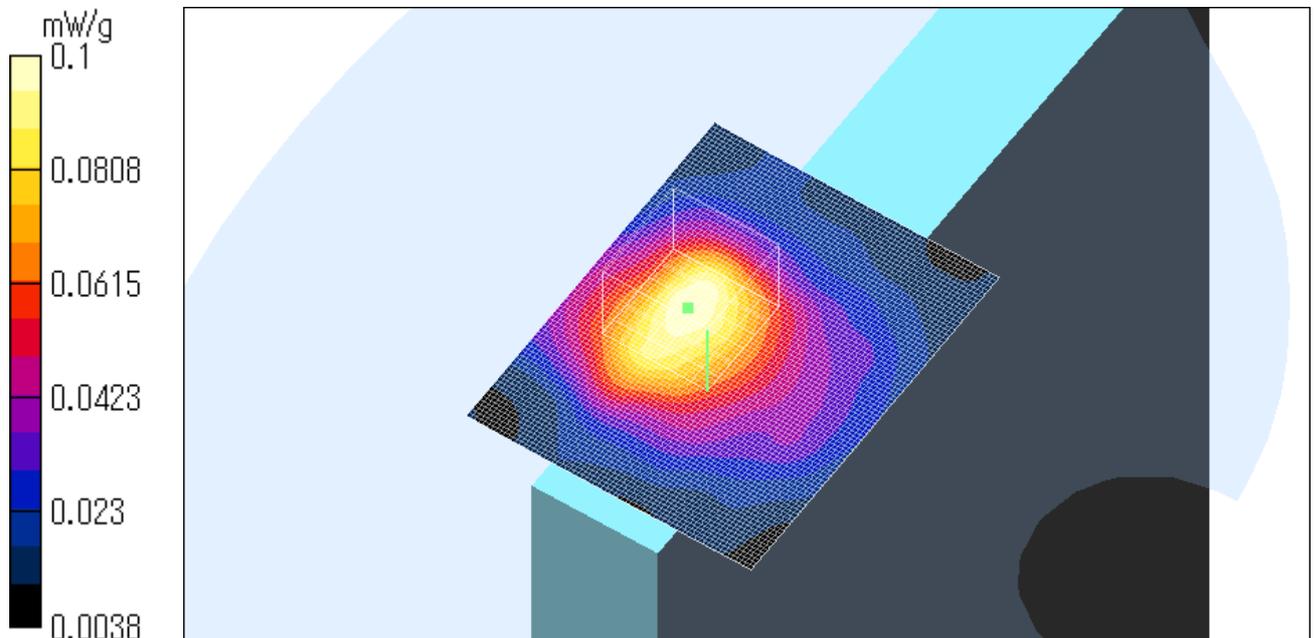
Reference Value = 3.74 V/m

Power Drift = -0.2 dB

Test Date = 06/18/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.a (QPSK) / 5745MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.436 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.885 W/kg

SAR(1 g) = 0.248 mW/g; SAR(10 g) = 0.0888 mW/g

Maximum value of SAR = 0.456 mW/g

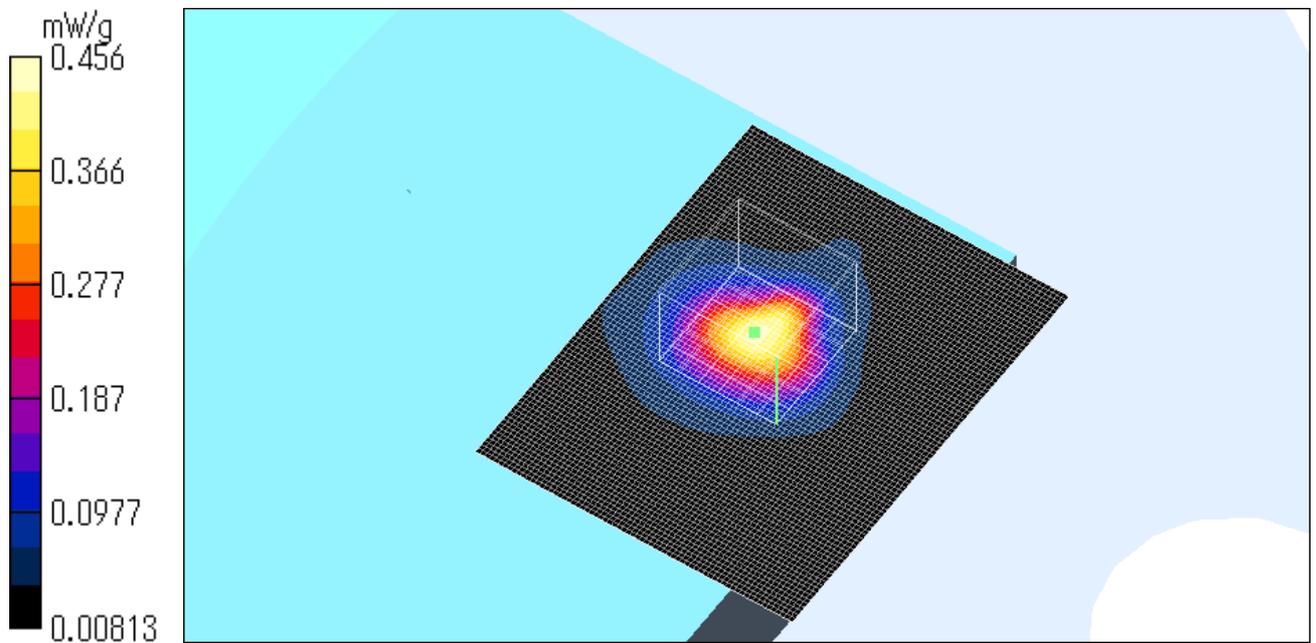
Reference Value = 7.45 V/m

Power Drift = -0.4 dB

Test Date = 06/18/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.3 degree.C , After 24.3 degree.C



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IRF302U / Body / Right Front (Antenna 2) / 11.a(QPSK) / 5805MHz

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.9$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (71x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 0.429 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 0.877 W/kg

SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.0913 mW/g

Maximum value of SAR = 0.437 mW/g

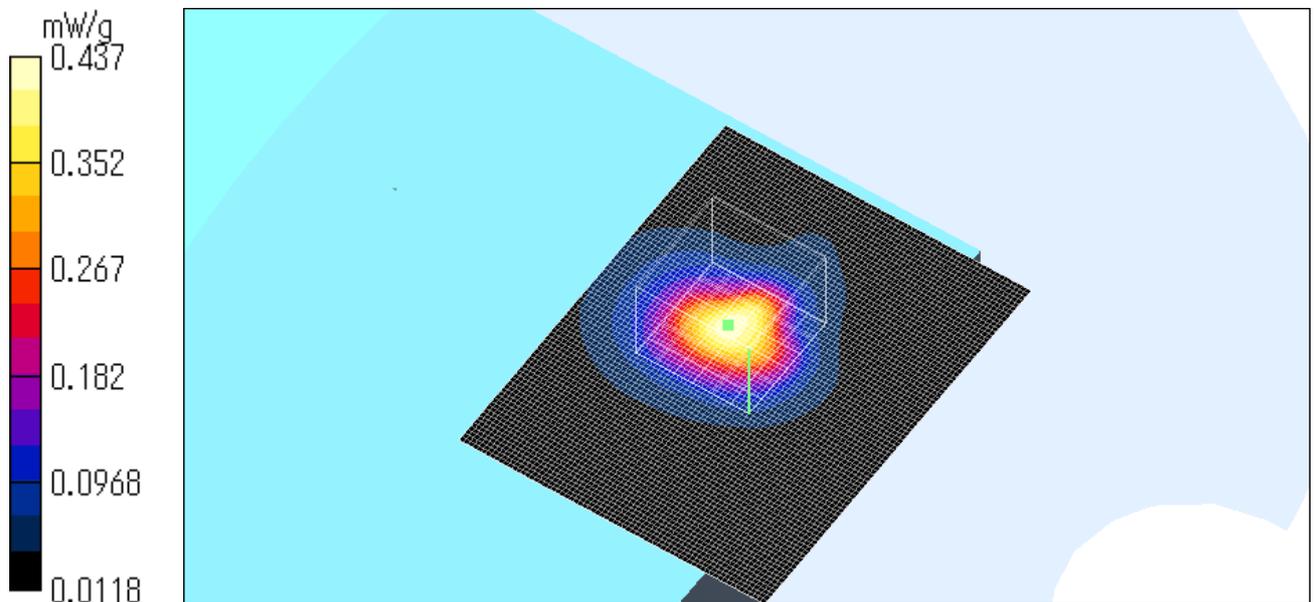
Reference Value = 7.33 V/m

Power Drift = -0.2 dB

Test Date = 06/18/04

Ambient Temperature = 24.5degree.c

Liquid Temperature = Before 24.0 degree.C , After 24.0 degree.C



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APPENDIX 5 : Validation Measurement data

2450MHz System Validation / Dipole 2450 MHz / Forward Conducted Power : 250mW

Crest factor: 1

Medium: HSL2450 ($\sigma = 1.86$ mho/m, $\epsilon_r = 37.4$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Dipole 2450 MHz;

- Type: D2450V2; Serial: SN:713

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.7, 4.7, 4.7); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 16.7 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 29.4 W/kg

SAR(1 g) = 13.8 mW/g; SAR(10 g) = 6.23 mW/g

Maximum value of SAR = 15.2 mW/g

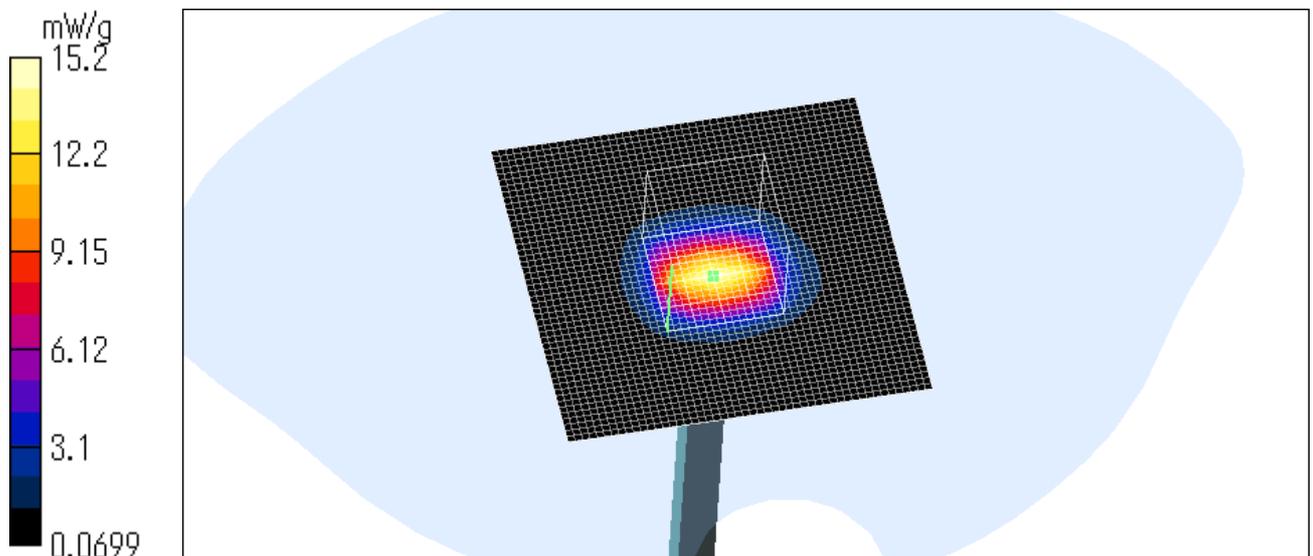
Reference Value = 95.1 V/m

Power Drift = -0.0007 dB

Test date = 06/11/04

Ambient Temperature = 24.8 degree.c

Liquid Temperature = Before 23.2 degree.C , After 23.2 degree.C



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2450MHz System Validation / Dipole 2450 MHz / Forward Conducted Power : 250mW

Crest factor: 1

Medium: HSL2450 ($\sigma = 1.87$ mho/m, $\epsilon_r = 37.4$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Dipole 2450 MHz;

- Type: D2450V2; Serial: SN:713

DASY4 Configuration:

- Probe: ET3DV6 - SN1685; ConvF(4.7, 4.7, 4.7); Calibrated: 2003/10/10

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR = 16.8 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 29.5 W/kg

SAR(1 g) = 13.9 mW/g; SAR(10 g) = 6.25 mW/g

Maximum value of SAR = 15.3 mW/g

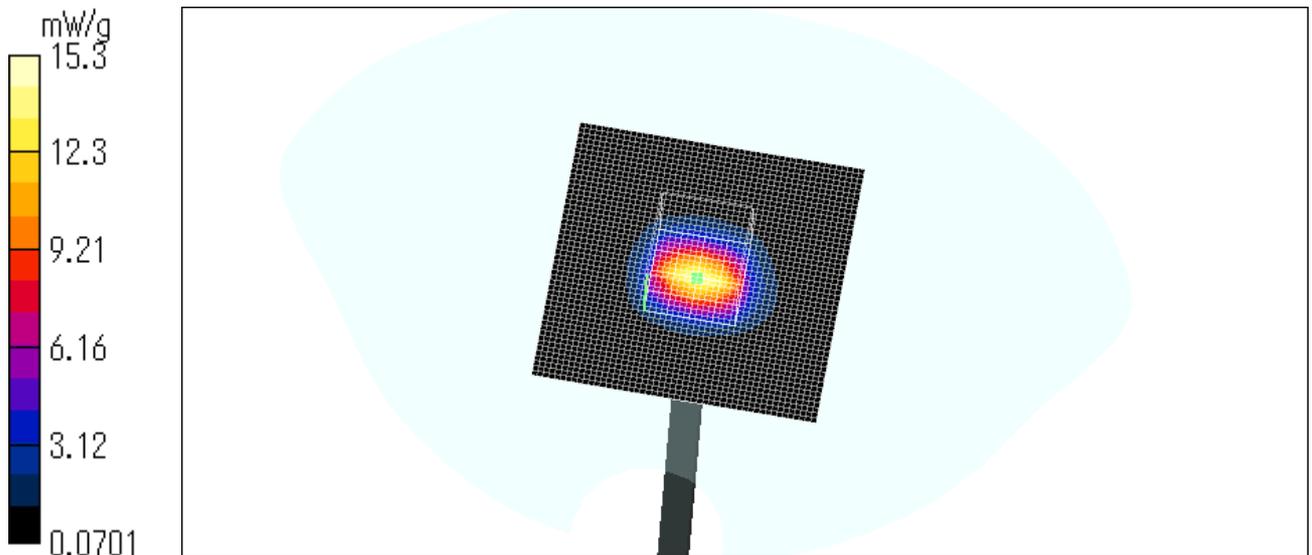
Reference Value = 94.2 V/m

Power Drift = -0.001 dB

Test date = 06/13/2004

Ambient Temperature = 24.8 degree.c

Liquid Temperature = Before 23.6 degree.C , After 23.6 degree.C



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5200MHz System Validation / Dipole 5GHz / Forward Conducted Power : 250mW

Crest factor: 1

Medium: M5200 ($\sigma = 5.4$ mho/m, $\epsilon_r = 48.8$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Dipole 5GHz;

- Type: D5GHzV2; Serial: SN:1020

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.62, 4.62, 4.62); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (51x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 43.9 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 76.4 W/kg

SAR(1 g) = 20.5 mW/g; SAR(10 g) = 5.54 mW/g

Maximum value of SAR = 41.7 mW/g

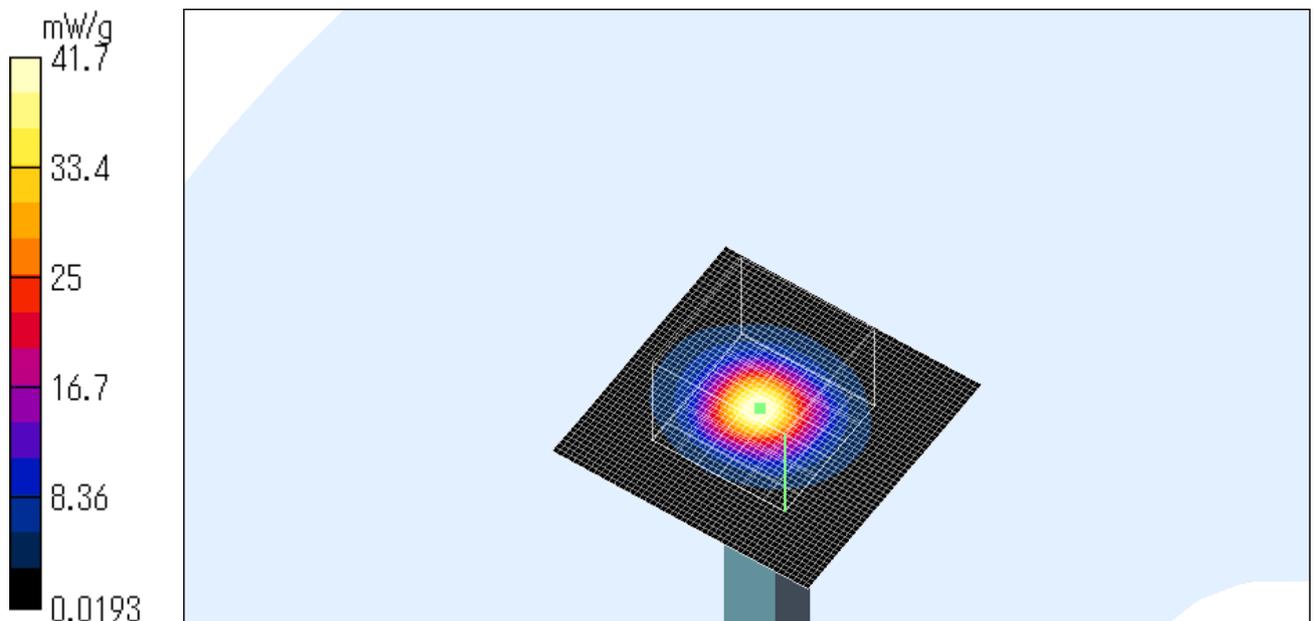
Reference Value = 95.1 V/m

Power Drift = -0.1 dB

Test Date = 06/17/04

Ambient Temperature = 23.6 degree.c

Liquid Temperature = Before 23.3 degree.C , After 23.3 degree.C



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5800MHz System Validation / Dipole 5GHz / Forward Conducted Power : 250mW

Crest factor: 1

Medium: M5800 ($\sigma = 6.3$ mho/m, $\epsilon_r = 47.8$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Dipole 5GHz;

- Type: D5GHzV2; Serial: SN:1020

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(4.21, 4.21, 4.21); Calibrated: 2004/02/20

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Area Scan (51x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR = 46.7 mW/g

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Peak SAR (extrapolated) = 89.2 W/kg

SAR(1 g) = 21.4 mW/g; SAR(10 g) = 5.9 mW/g

Maximum value of SAR = 41.3 mW/g

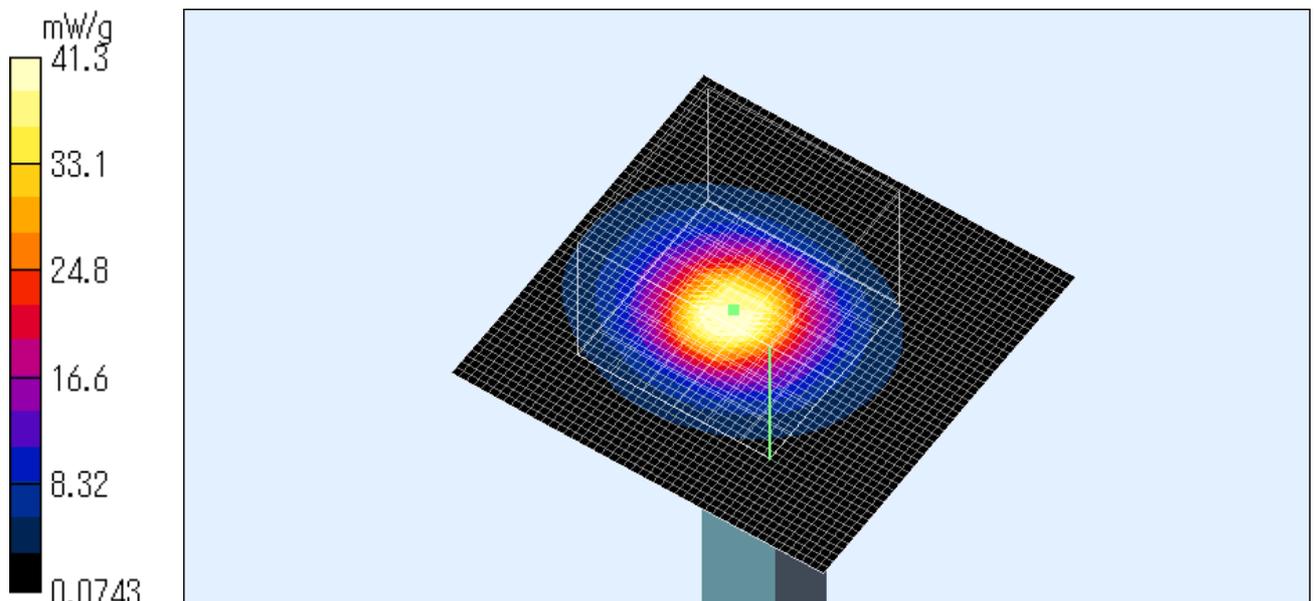
Reference Value = 86.1 V/m

Power Drift = -0.005 dB

Test Date = 06/18/04

Ambient Temperature = 24.5 degree.c

Liquid Temperature = Before 24.5 degree.C , After 24.5 degree.C



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