

## 5. Measurement data (Body SAR 2412-2462MHz band)

### CH9-1161/Body/Side/11b DBPSK 1Mbps/2437MHz

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Area Scan (51x61x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.352 mW/g

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

Reference Value = 9.83 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 0.487 W/kg

**SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.107 mW/g**

Maximum value of SAR (measured) = 0.354 mW/g

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 9.83 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 0.298 W/kg

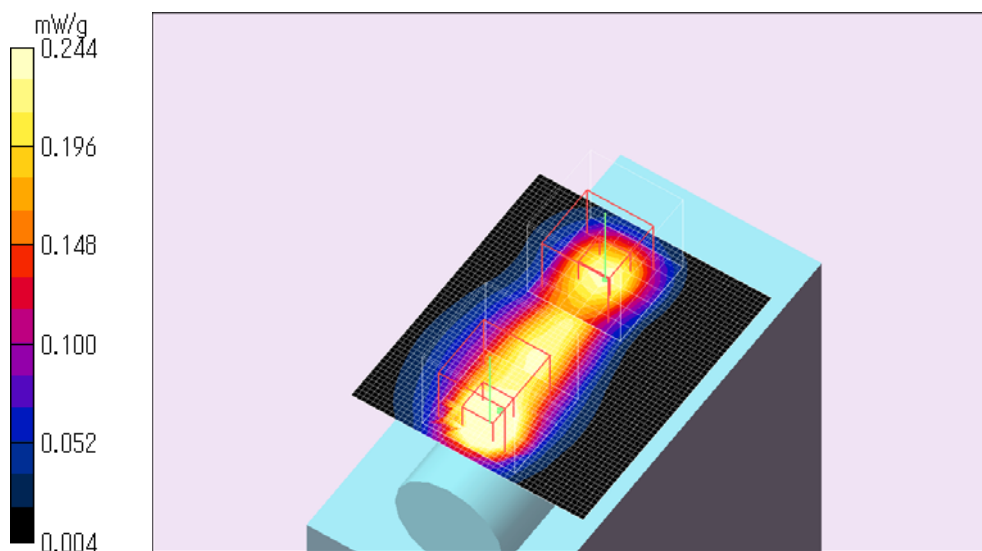
**SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.091 mW/g**

Maximum value of SAR (measured) = 0.244 mW/g

Test Date = 11/13/09

Ambient Temperature = 24.5 degree.c

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



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**CH9-1161/Body/Side/11b DQPSK 2Mbps/2437MHz**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Area Scan (51x91x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.327 mW/g

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

Reference Value = 11.0 V/m; Power Drift = -0.171 dB

Peak SAR (extrapolated) = 0.375 W/kg

**SAR(1 g) = 0.189 mW/g; SAR(10 g) = 0.095 mW/g**

Maximum value of SAR (measured) = 0.280 mW/g

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 11.0 V/m; Power Drift = -0.171 dB

Peak SAR (extrapolated) = 0.292 W/kg

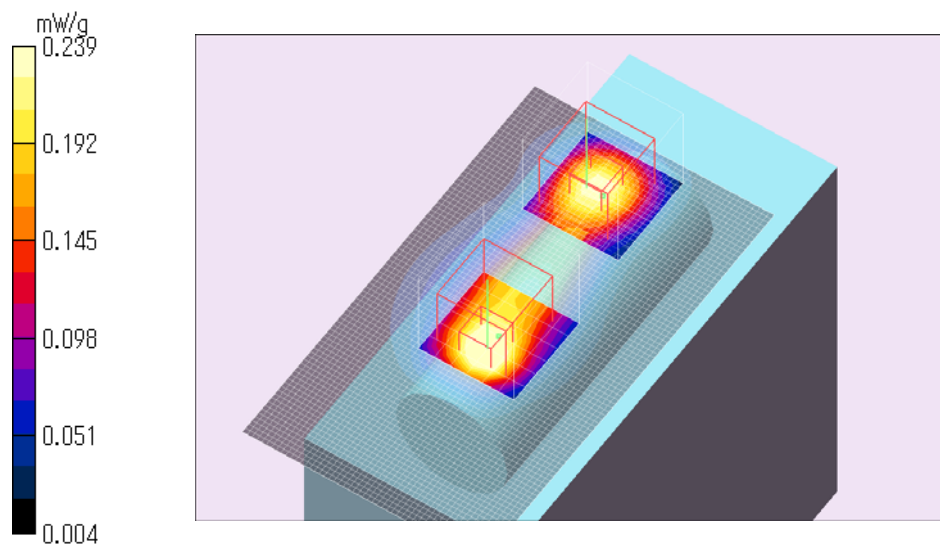
**SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.093 mW/g**

Maximum value of SAR (measured) = 0.239 mW/g

Test Date = 11/13/09

Ambient Temperature = 24.5 degree.c

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



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**CH9-1161/Body/Front/11b DBPSK 1Mbps/2437MHz**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Area Scan (91x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.009 mW/g

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

Reference Value = 1.66 V/m; Power Drift = 0.167 dB

Peak SAR (extrapolated) = 0.011 W/kg

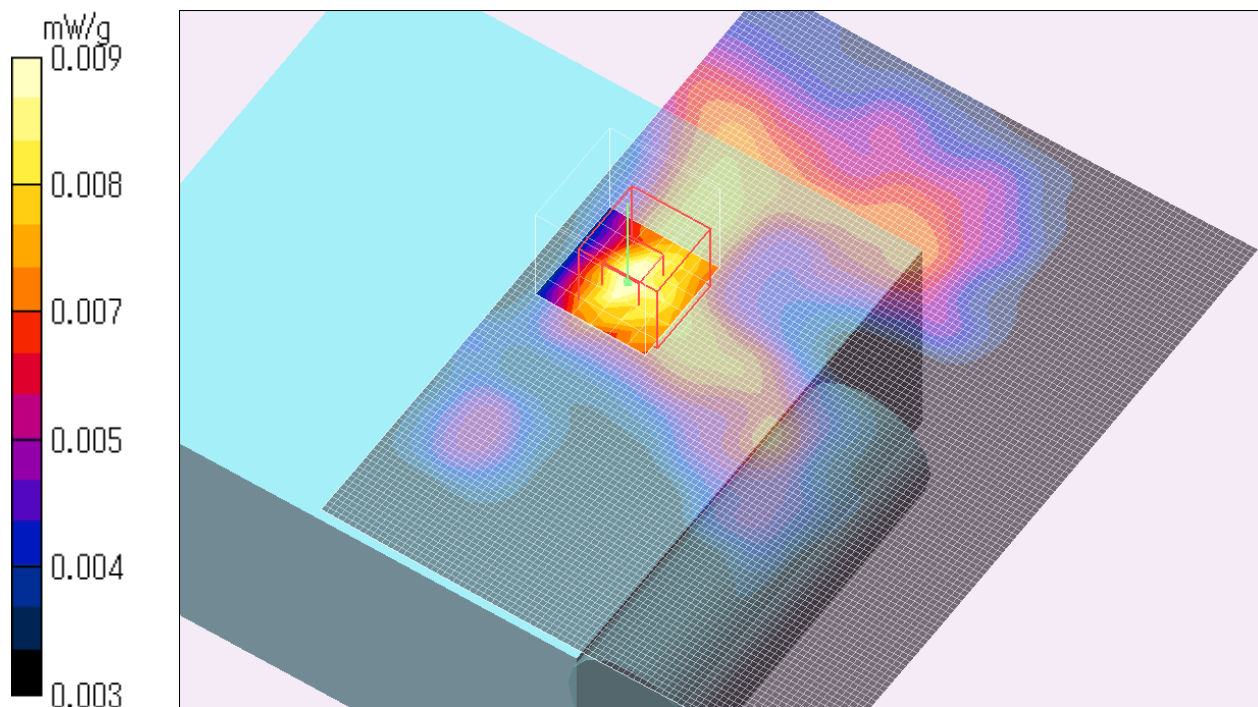
**SAR(1 g) = 0.00746 mW/g; SAR(10 g) = 0.00558 mW/g**

Maximum value of SAR (measured) = 0.009 mW/g

Test Date = 11/13/09

Ambient Temperature = 24.5 degree.c

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



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**CH9-1161/Body/Rear/11b DBPSK 1Mbps/2437MHz**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Area Scan (91x121x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.091 mW/g

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

Reference Value = 5.10 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.111 W/kg

**SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.033 mW/g**

Maximum value of SAR (measured) = 0.082 mW/g

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.10 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.079 W/kg

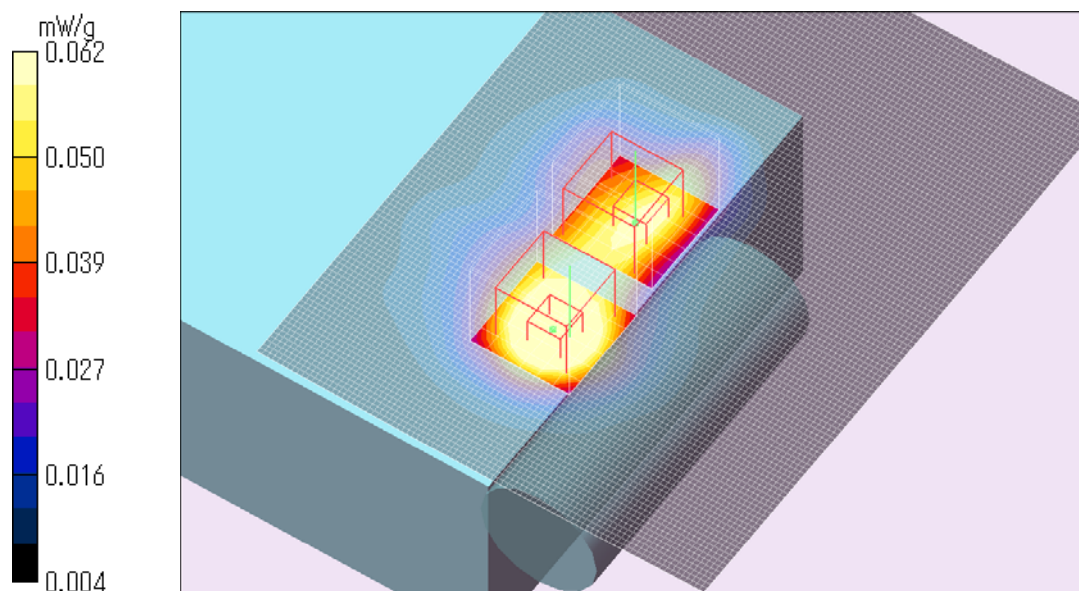
**SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.027 mW/g**

Maximum value of SAR (measured) = 0.062 mW/g

Test Date = 11/13/09

Ambient Temperature = 24.5 degree.c

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



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**CH9-1161/Body/Top/11b DBPSK 1Mbps/2437MHz**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Area Scan (81x121x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.028 mW/g

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

Reference Value = 1.61 V/m; Power Drift = 0.169 dB

Peak SAR (extrapolated) = 0.036 W/kg

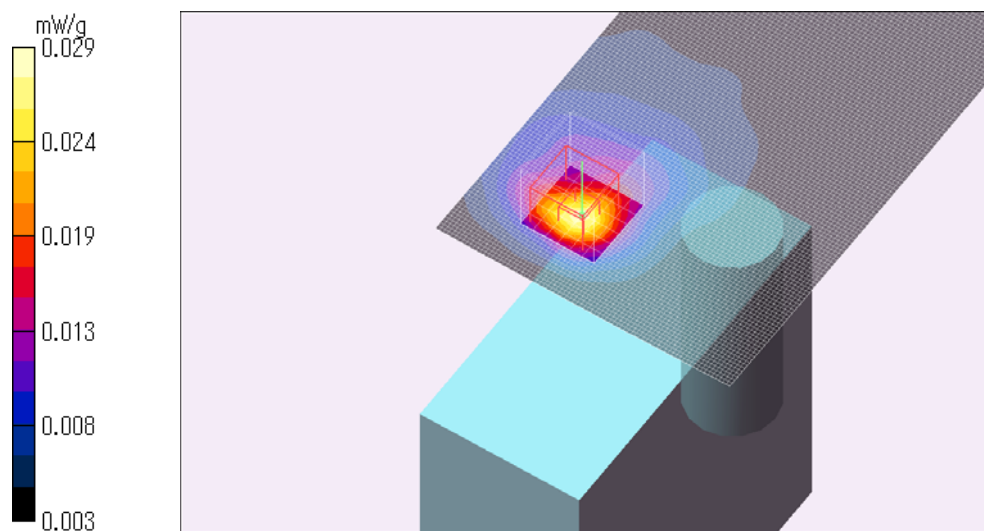
**SAR(1 g) = 0.021 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.029 mW/g

Test Date = 11/13/09

Ambient Temperature = 24.5 degree.c

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



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**CH9-1161/Body/Bottom/11b DBPSK 1Mbps/2437MHz**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Area Scan (121x131x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.007 mW/g

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

Reference Value = 0.994 V/m; Power Drift = 0.107 dB

Peak SAR (extrapolated) = 0.009 W/kg

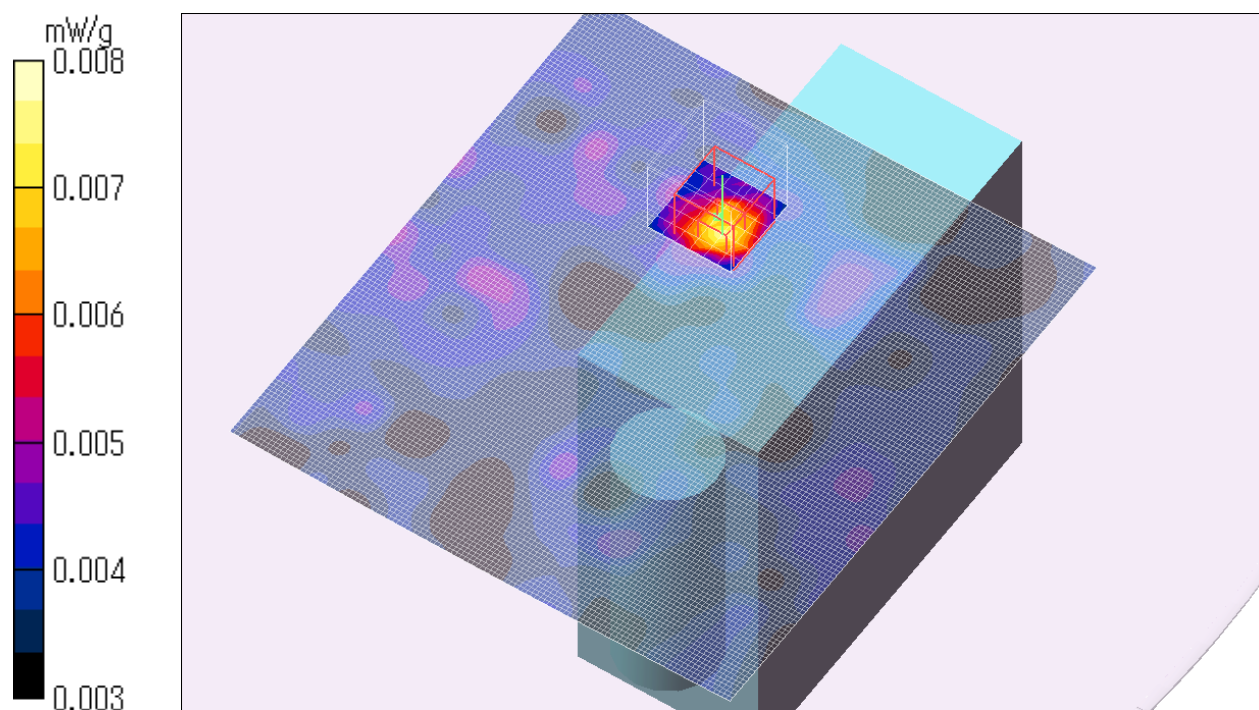
**SAR(1 g) = 0.00629 mW/g; SAR(10 g) = 0.00499 mW/g**

Maximum value of SAR (measured) = 0.008 mW/g

Test Date = 11/13/09

Ambient Temperature = 24.5 degree.c

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



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**CH9-1161/Body/Side/11b DBPSK 1Mbps/2412MHz**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Area Scan (51x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.345 mW/g

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

Reference Value = 9.71 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.471 W/kg

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

Maximum value of SAR (measured) = 0.337 mW/g

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.71 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.290 W/kg

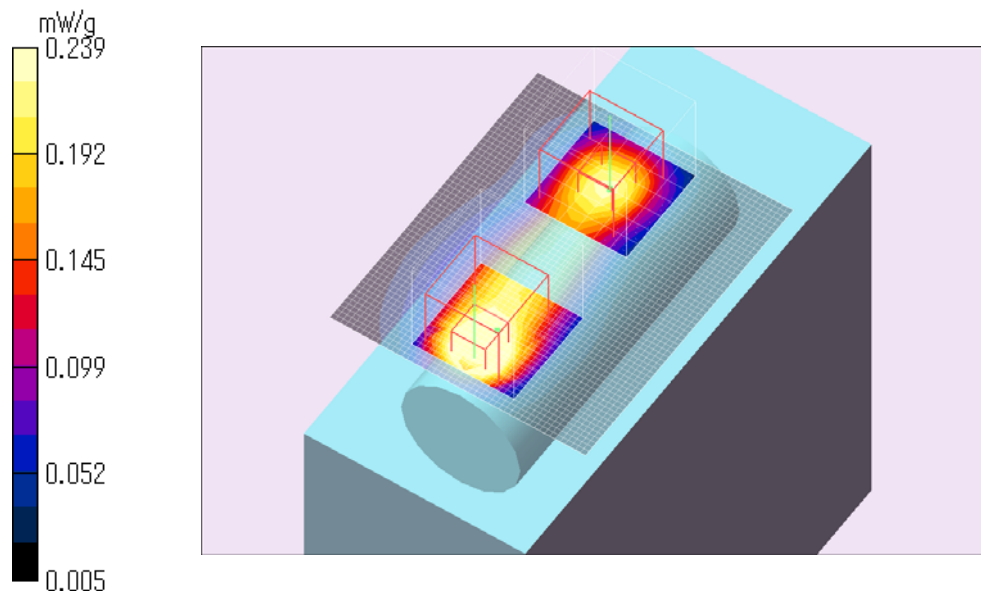
**SAR(1 g) = 0.173 mW/g; SAR(10 g) = 0.089 mW/g**

Maximum value of SAR (measured) = 0.239 mW/g

Test Date = 11/13/09

Ambient Temperature = 24.5 degree.c

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



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**CH9-1161/Body/Side/11b DBPSK 1Mbps/2462MHz**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Area Scan (51x81x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.459 mW/g

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

Reference Value = 11.0 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 0.602 W/kg

**SAR(1 g) = 0.280 mW/g; SAR(10 g) = 0.130 mW/g**

Maximum value of SAR (measured) = 0.437 mW/g

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 11.0 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 0.353 W/kg

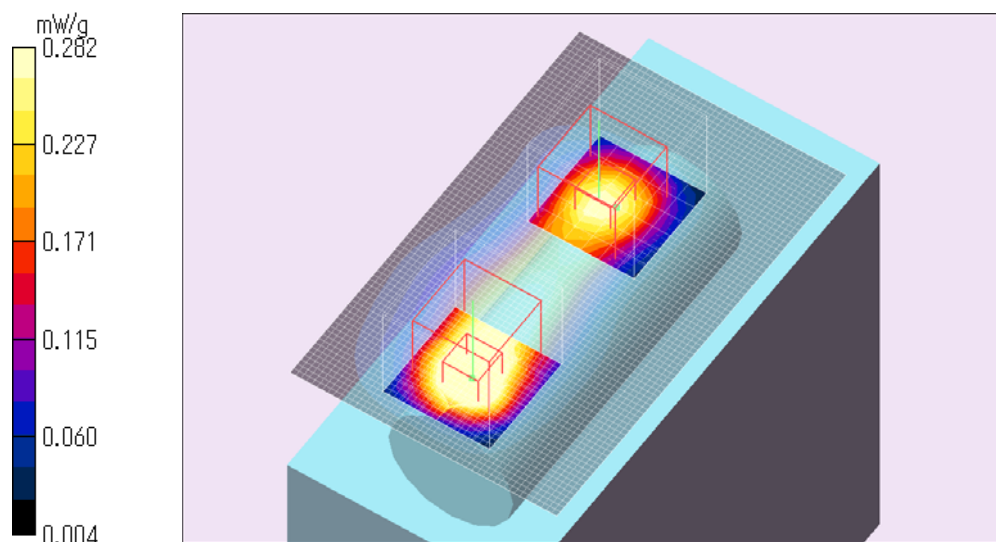
**SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.106 mW/g**

Maximum value of SAR (measured) = 0.282 mW/g

Test Date = 11/13/09

Ambient Temperature = 24.5 degree.c

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



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### Z-axis scan at max SAR location

CH9-1161/Body/Side/11b DBPSK 1Mbps/2462MHz

Crest factor:1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

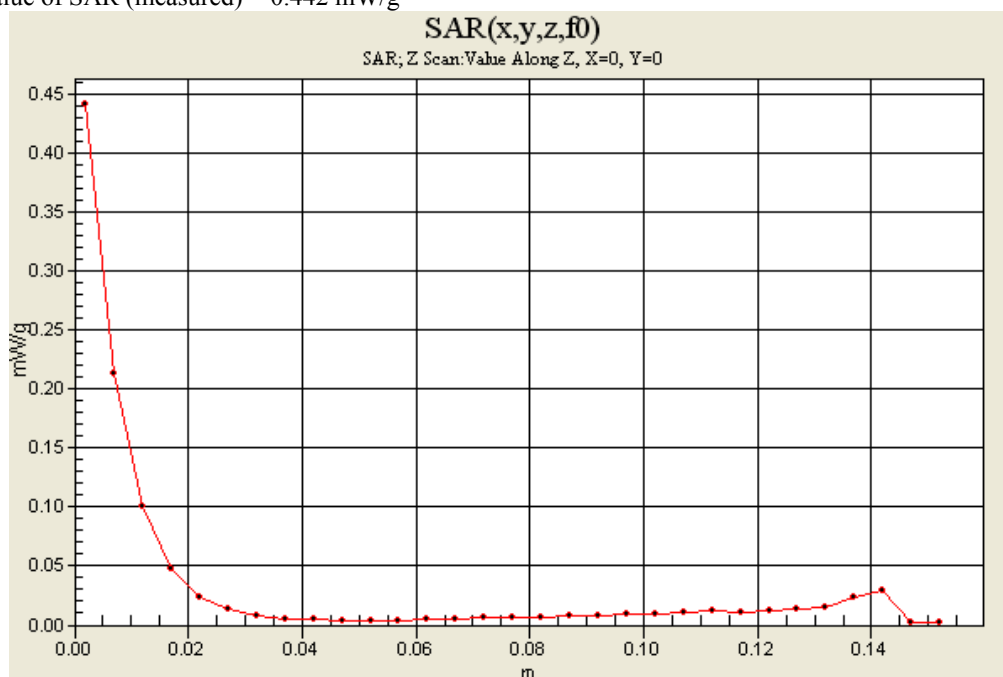
Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Z Scan (1x1x31):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.442 mW/g



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**CH9-1161/Body/Side 5mm /11b DBPSK 1Mbps/2462MHz**

Crest factor:1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.220 mW/g

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

Reference Value = 5.32 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 0.241 W/kg

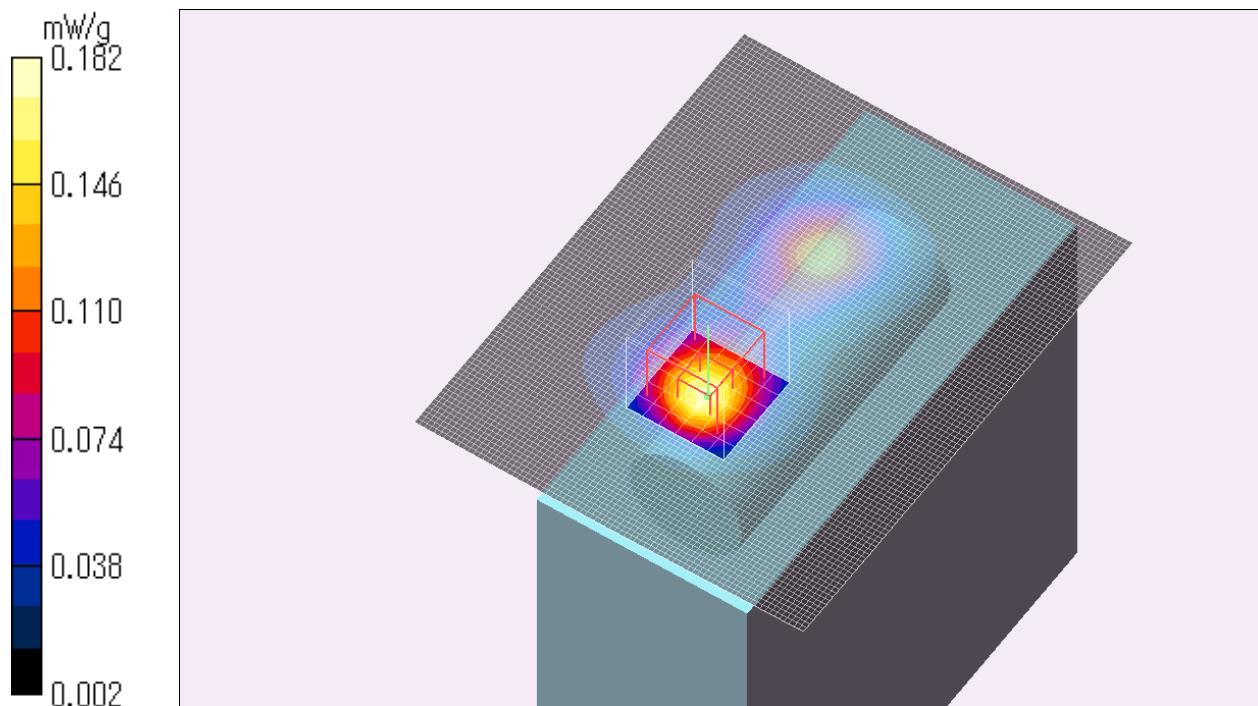
**SAR(1 g) = 0.126 mW/g; SAR(10 g) = 0.063 mW/g**

Maximum value of SAR (measured) = 0.182 mW/g

Test Date = 11/13/09

Ambient Temperature = 24.5 degree.c

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



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**CH9-1161/Body/Side 10mm /11b DBPSK 1Mbps/2462MHz**

Crest factor:1

Medium: M2450 Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.95 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3507; ConvF(7.68, 7.68, 7.68); Calibrated: 2009/02/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Area Scan (81x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.075 mW/g

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

Reference Value = 3.59 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.088 W/kg

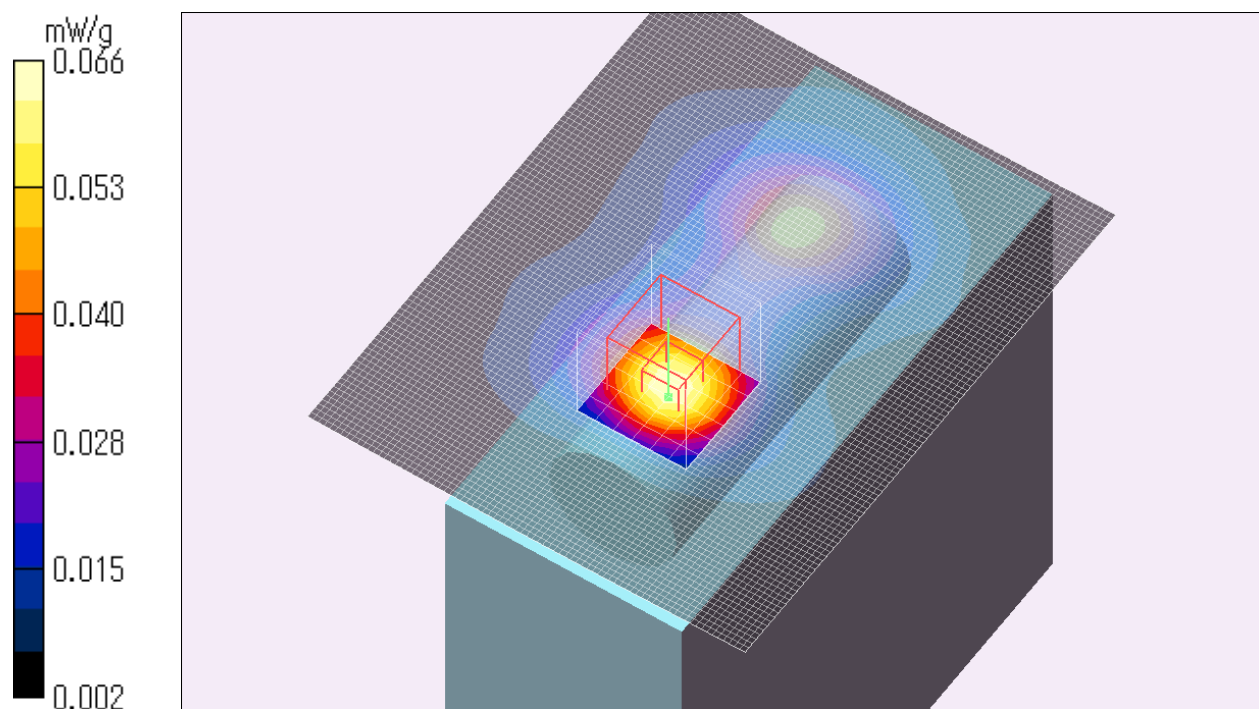
**SAR(1 g) = 0.048 mW/g; SAR(10 g) = 0.026 mW/g**

Maximum value of SAR (measured) = 0.066 mW/g

Test Date = 11/13/09

Ambient Temperature = 24.5 degree.c

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



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