



Annex A

SAR Plots

Date/Time: 5/28/2015 11:32:23 AM

450MHz validation 05-28-2015**DUT: Dipole 450 MHz; Type: D450V2; Serial: D450V2 - SN:1090**

Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1

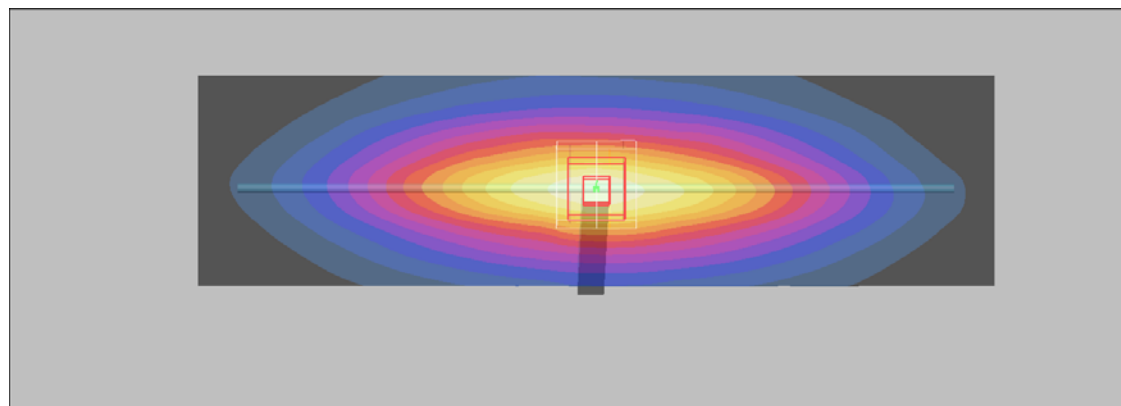
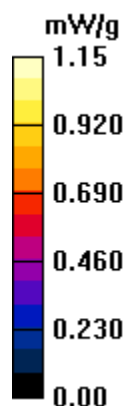
Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.83 \text{ mho/m}$; $\epsilon_r = 46$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(7.18, 7.18, 7.18); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (81x301x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 1.15 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 36.9 V/m ; Power Drift = 0.040 dB Peak SAR (extrapolated) = 1.65 W/kg **SAR(1 g) = 1.08 mW/g ; SAR(10 g) = 0.720 mW/g** Maximum value of SAR (measured) = 1.15 mW/g 

Date/Time: 5/29/2015 9:53:27 AM

high ch 511.9MHzbody worn**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 512 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 512 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 60.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(6.76, 6.76, 6.76); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 4.39 mW/g

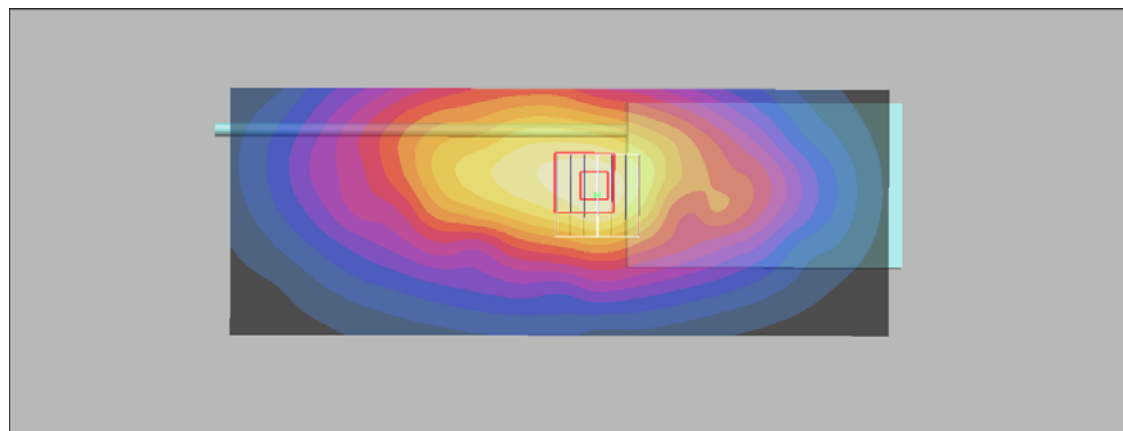
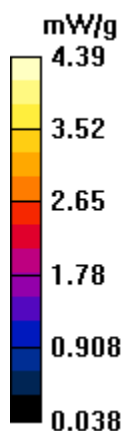
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 65.1 V/m; Power Drift = -0.330 dB

Peak SAR (extrapolated) = 6.01 W/kg

SAR(1 g) = 4.17 mW/g; SAR(10 g) = 2.9 mW/g

Maximum value of SAR (measured) = 4.42 mW/g



Date/Time: 5/29/2015 8:12:12 AM

high ch 511.9MHz face held**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 512 MHz; Duty Cycle: 1:1

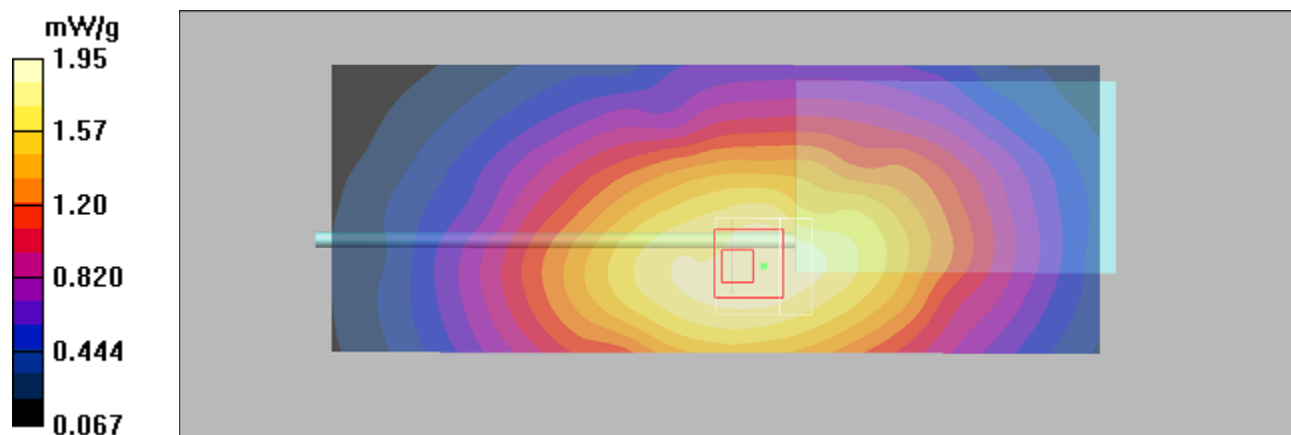
Medium parameters used: $f = 512 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 44.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(7.18, 7.18, 7.18); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 1.95 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 42.2 V/m ; Power Drift = -0.325 dB Peak SAR (extrapolated) = 2.54 W/kg **SAR(1 g) = 1.84 mW/g ; SAR(10 g) = 1.37 mW/g** Maximum value of SAR (measured) = 1.93 mW/g 

Date/Time: 5/30/2015 9:57:18 AM

mid ch 496MHz body worn**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 496 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 496 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 60.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(6.76, 6.76, 6.76); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 5.58 mW/g

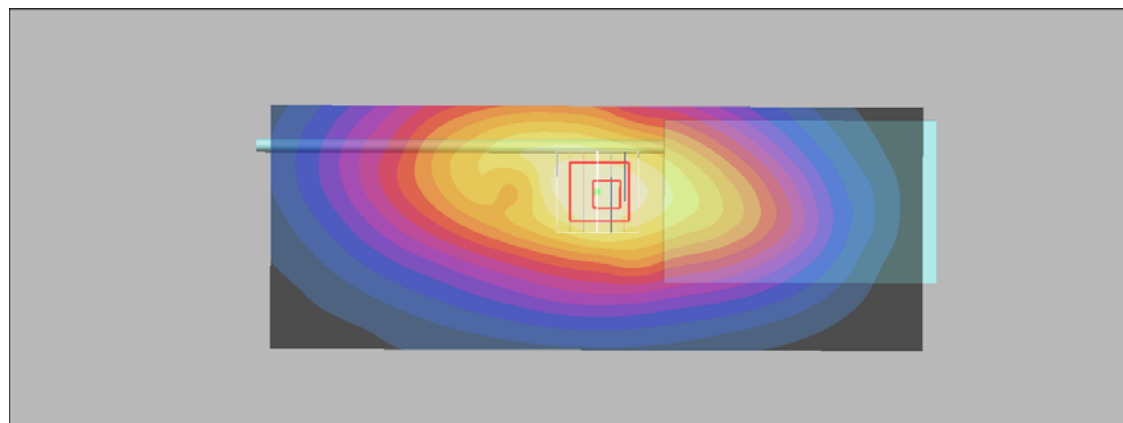
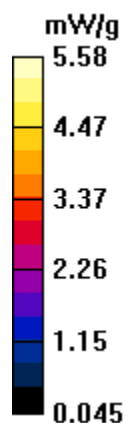
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 75.6 V/m; Power Drift = -0.401 dB

Peak SAR (extrapolated) = 7.50 W/kg

SAR(1 g) = 5.4 mW/g; SAR(10 g) = 3.91 mW/g

Maximum value of SAR (measured) = 5.70 mW/g



Date/Time: 5/30/2015 11:24:50 AM

high ch 496MHz face held**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 496 MHz; Duty Cycle: 1:1

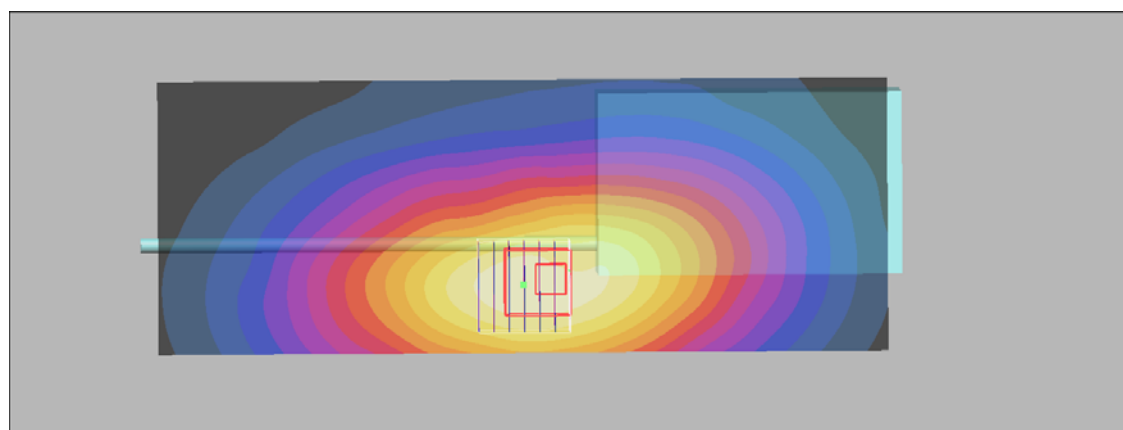
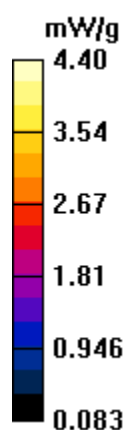
Medium parameters used: $f = 496 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 44.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(7.18, 7.18, 7.18); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 4.40 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 56.4 V/m ; Power Drift = -0.364 dB Peak SAR (extrapolated) = 5.61 W/kg **SAR(1 g) = 4.11 mW/g ; SAR(10 g) = 3.02 mW/g** Maximum value of SAR (measured) = 4.32 mW/g 

Date/Time: 5/29/2015 10:47:01 AM

low ch 450.1MHz body worn**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 61.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(6.76, 6.76, 6.76); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 6.48 mW/g

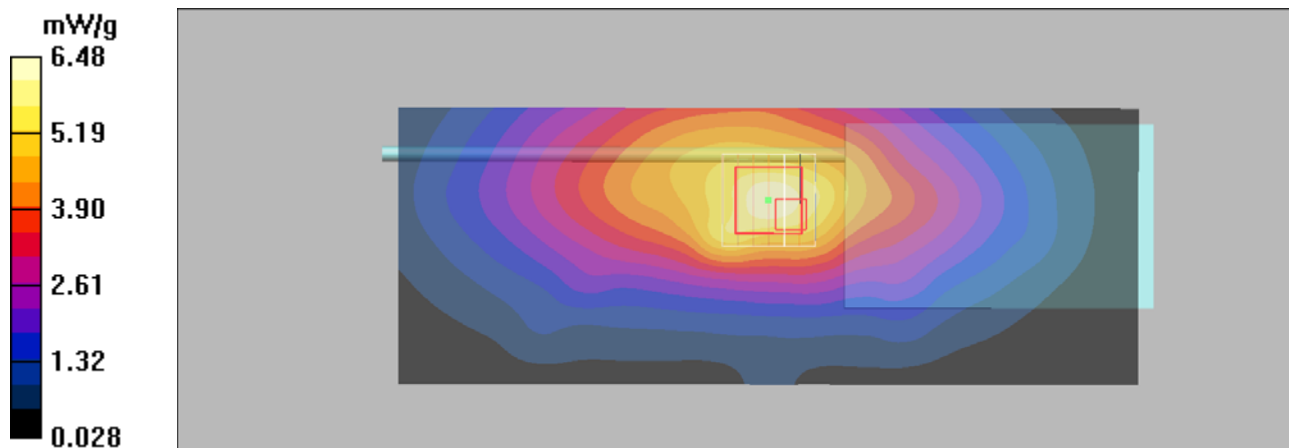
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 71.3 V/m; Power Drift = 0.183 dB

Peak SAR (extrapolated) = 8.34 W/kg

SAR(1 g) = 5.61 mW/g; SAR(10 g) = 3.95 mW/g

Maximum value of SAR (measured) = 6.24 mW/g



Date/Time: 5/28/2015 4:32:01 PM

low ch 450.1MHz face held**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450$ MHz; $\sigma = 0.83$ mho/m; $\epsilon_r = 46$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(7.18, 7.18, 7.18); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.79 mW/g

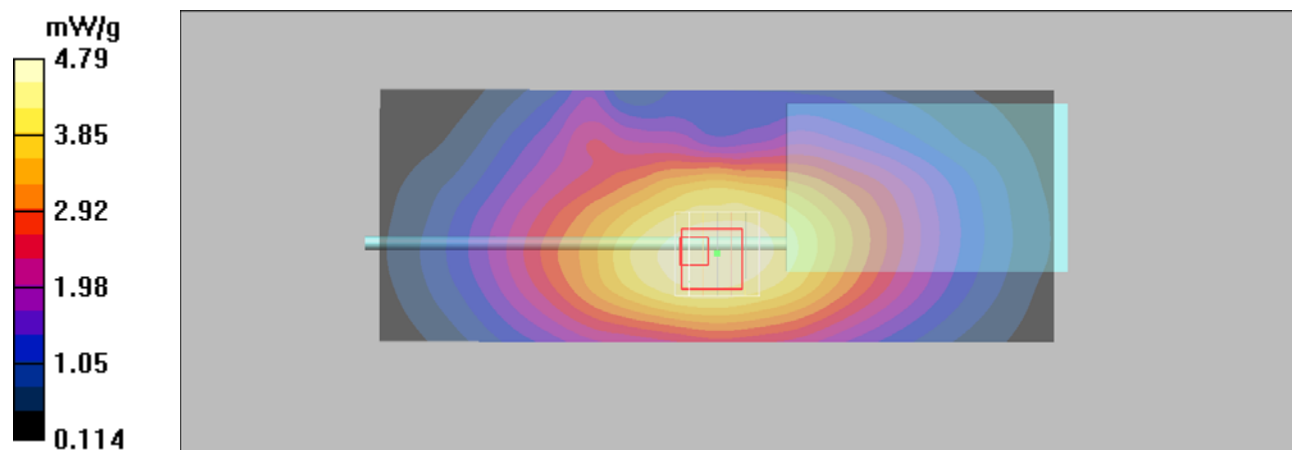
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 65.9 V/m; Power Drift = -0.658 dB

Peak SAR (extrapolated) = 5.82 W/kg

SAR(1 g) = 4.22 mW/g; SAR(10 g) = 3.12 mW/g

Maximum value of SAR (measured) = 4.51 mW/g



Date/Time: 5/30/2015 9:30:22 AM

mid ch 465MHz body worn**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 465 MHz; Duty Cycle: 1:1

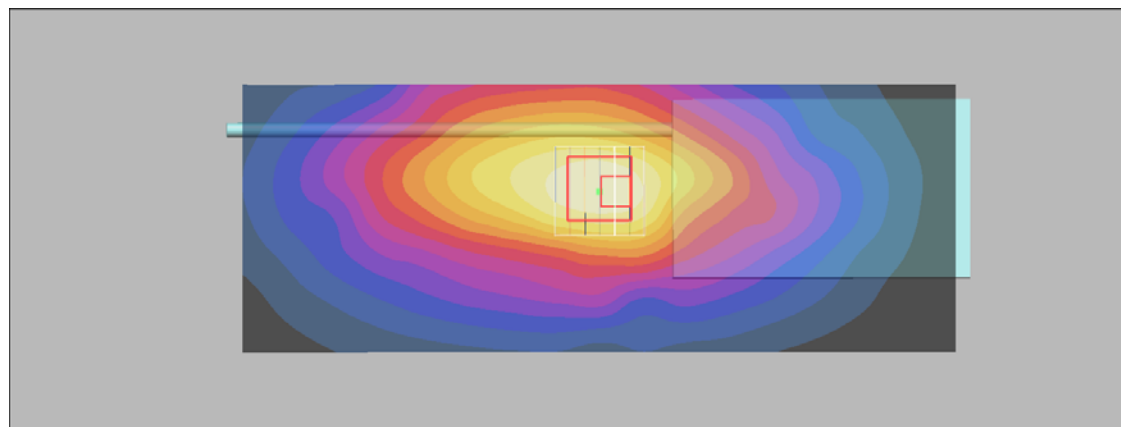
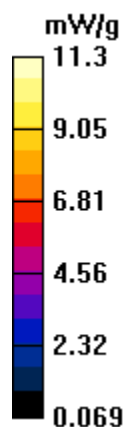
Medium parameters used: $f = 465 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 61.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(6.76, 6.76, 6.76); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 11.3 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 106.9 V/m ; Power Drift = -0.735 dB Peak SAR (extrapolated) = 13.6 W/kg **SAR(1 g) = 9.85 mW/g ; SAR(10 g) = 7.18 mW/g** Maximum value of SAR (measured) = 10.7 mW/g 

Date/Time: 5/30/2015 10:57:52 AM

low ch 465MHz face held**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 465 MHz; Duty Cycle: 1:1

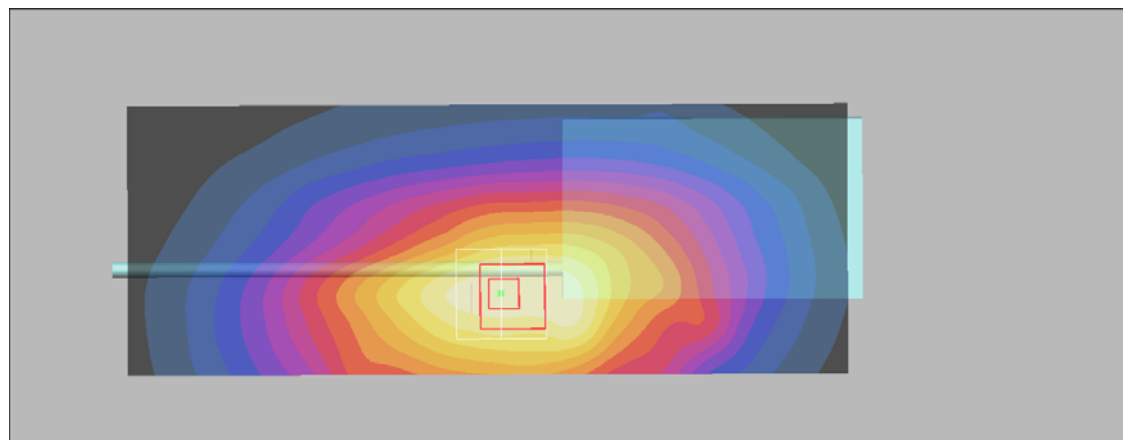
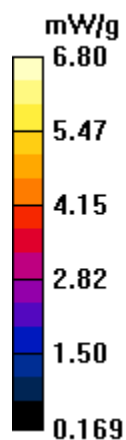
Medium parameters used: $f = 465 \text{ MHz}$; $\sigma = 0.84 \text{ mho/m}$; $\epsilon_r = 45.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(7.18, 7.18, 7.18); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 6.80 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 69.3 V/m ; Power Drift = -0.362 dB Peak SAR (extrapolated) = 9.20 W/kg **SAR(1 g) = 6.76 mW/g ; SAR(10 g) = 4.95 mW/g** Maximum value of SAR (measured) = 7.32 mW/g 

Date/Time: 5/29/2015 10:29:56 AM

mid ch 480.1MHzbody worn**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 480 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 480$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 60.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(6.76, 6.76, 6.76); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 8.39 mW/g

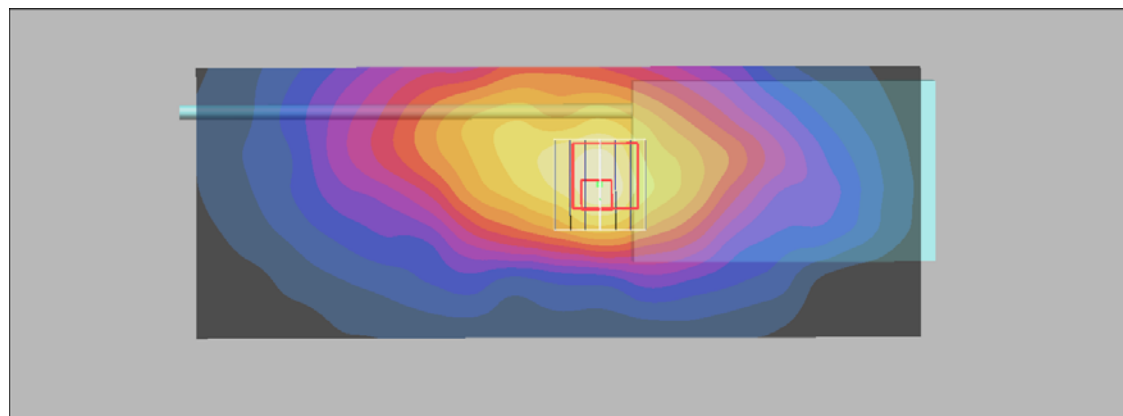
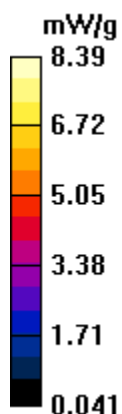
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.7 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 8.52 W/kg

SAR(1 g) = 5.26 mW/g; SAR(10 g) = 3.57 mW/g

Maximum value of SAR (measured) = 6.22 mW/g



Date/Time: 5/28/2015 3:12:45 PM

mid ch 480.1MHz face held**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 480 MHz; Duty Cycle: 1:1

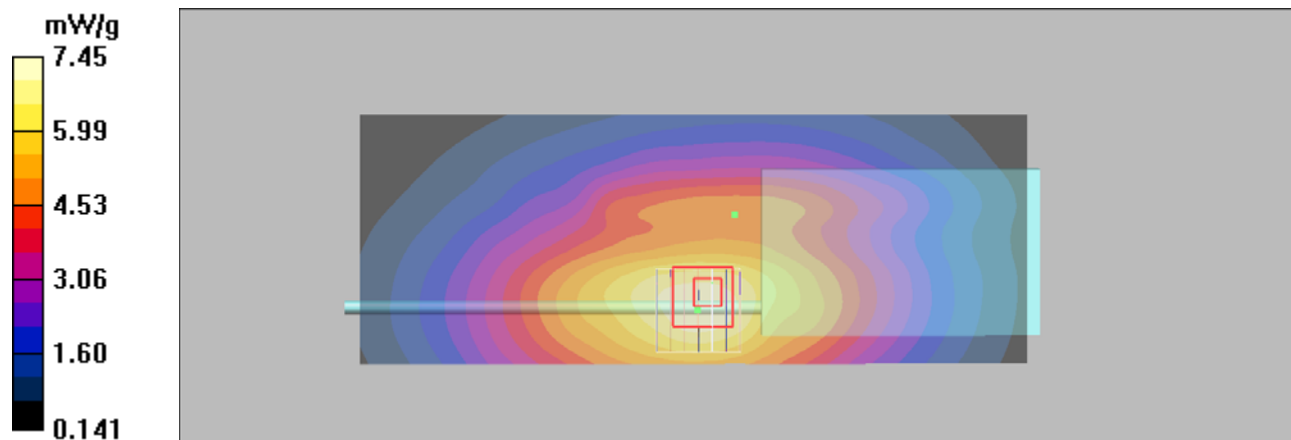
Medium parameters used: $f = 480 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 45.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(7.18, 7.18, 7.18); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 7.45 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 100.6 V/m ; Power Drift = -0.67 dB Peak SAR (extrapolated) = 9.94 W/kg **SAR(1 g) = 7.13 mW/g ; SAR(10 g) = 5.26 mW/g** Maximum value of SAR (measured) = 7.71 mW/g 

Date/Time: 5/28/2015 11:32:23 AM

450MHz validation 05-28-2015**DUT: Dipole 450 MHz; Type: D450V2; Serial: D450V2 - SN:1090**

Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1

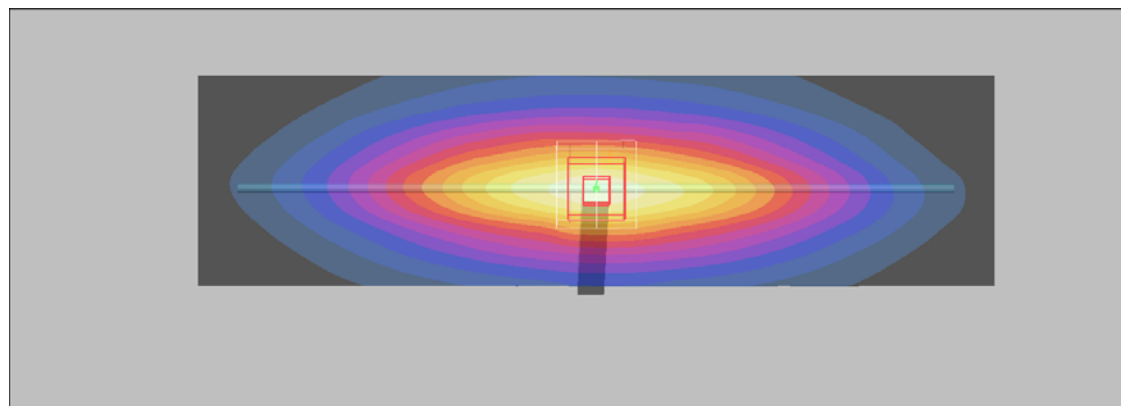
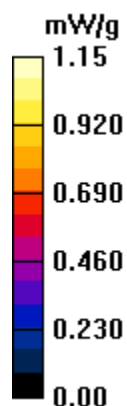
Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.83 \text{ mho/m}$; $\epsilon_r = 46$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

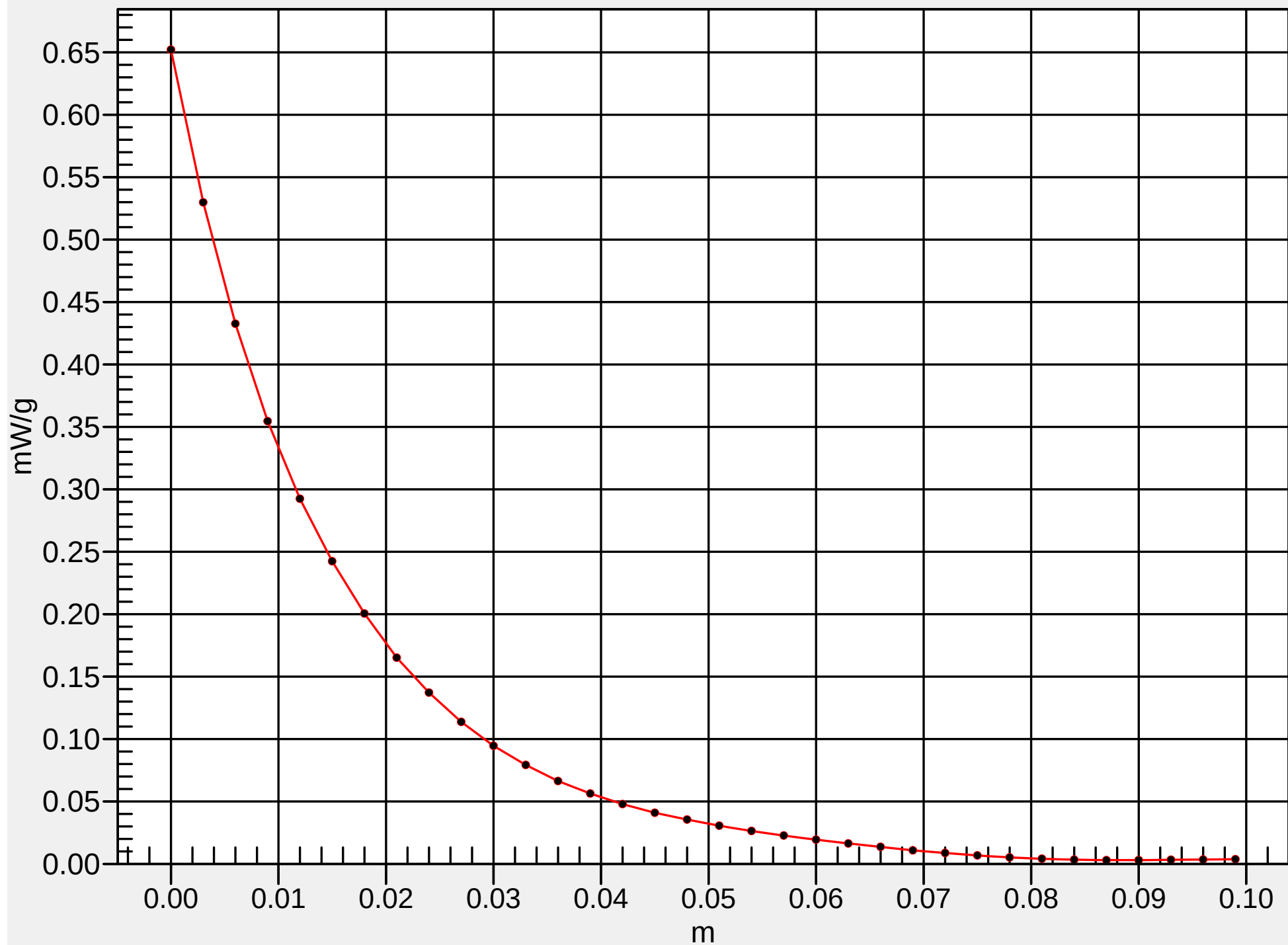
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(7.18, 7.18, 7.18); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (81x301x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 1.15 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 36.9 V/m ; Power Drift = 0.040 dB Peak SAR (extrapolated) = 1.65 W/kg **SAR(1 g) = 1.08 mW/g ; SAR(10 g) = 0.720 mW/g** Maximum value of SAR (measured) = 1.15 mW/g 

$SAR(x,y,z,f_0)$
SAR; Z Scan: Value Along Z, X=0, Y=0



Date/Time: 5/28/2015 4:32:01 PM

low ch 450.1MHz face held**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450$ MHz; $\sigma = 0.83$ mho/m; $\epsilon_r = 46$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(7.18, 7.18, 7.18); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.79 mW/g

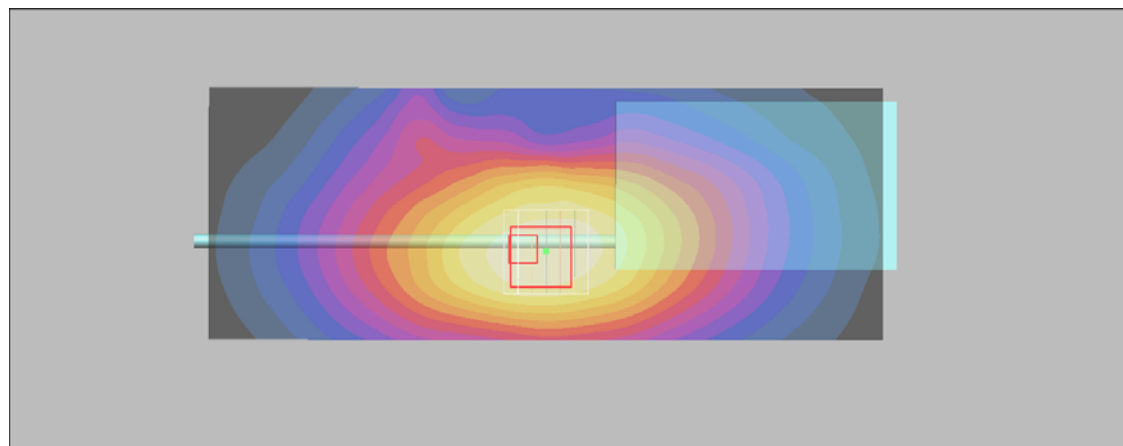
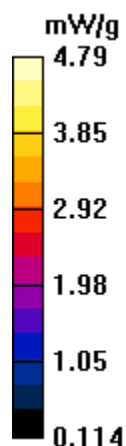
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 65.9 V/m; Power Drift = -0.658 dB

Peak SAR (extrapolated) = 5.82 W/kg

SAR(1 g) = 4.22 mW/g; SAR(10 g) = 3.12 mW/g

Maximum value of SAR (measured) = 4.51 mW/g



Date/Time: 5/30/2015 10:57:52 AM

low ch 465MHz face held**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 465 MHz; Duty Cycle: 1:1

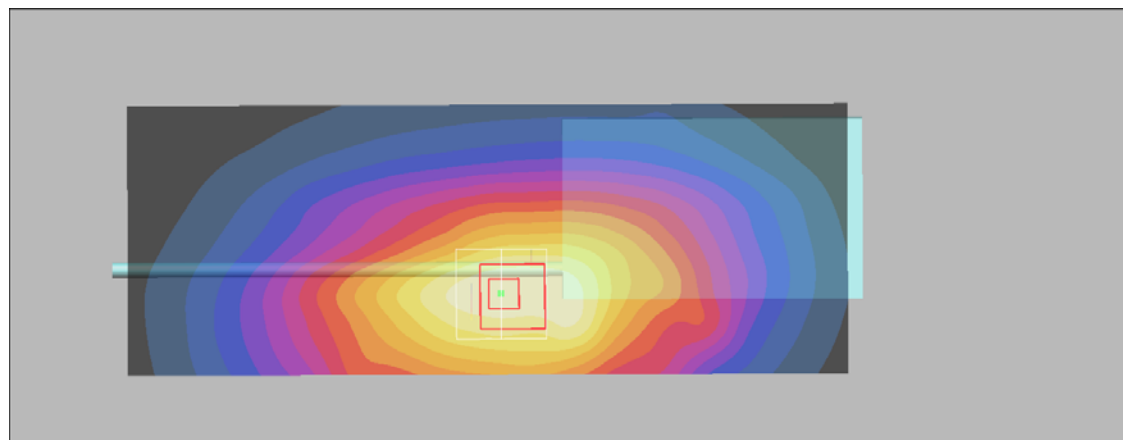
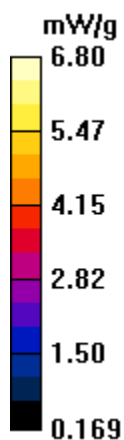
Medium parameters used: $f = 465 \text{ MHz}$; $\sigma = 0.84 \text{ mho/m}$; $\epsilon_r = 45.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(7.18, 7.18, 7.18); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 6.80 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 69.3 V/m ; Power Drift = -0.362 dB Peak SAR (extrapolated) = 9.20 W/kg **SAR(1 g) = 6.76 mW/g ; SAR(10 g) = 4.95 mW/g** Maximum value of SAR (measured) = 7.32 mW/g 

Date/Time: 5/28/2015 3:12:45 PM

mid ch 480.1MHz face held**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 480 MHz; Duty Cycle: 1:1

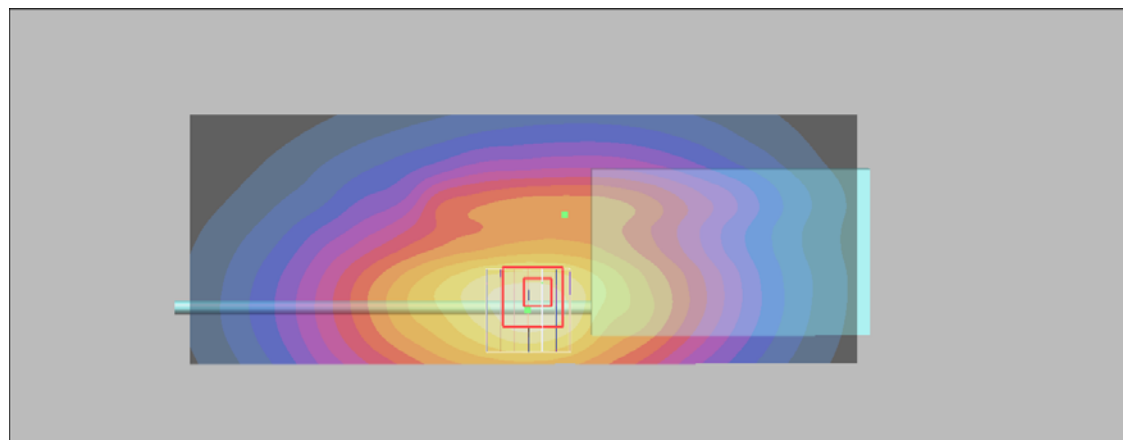
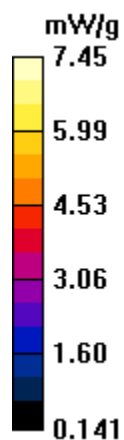
Medium parameters used: $f = 480 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 45.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

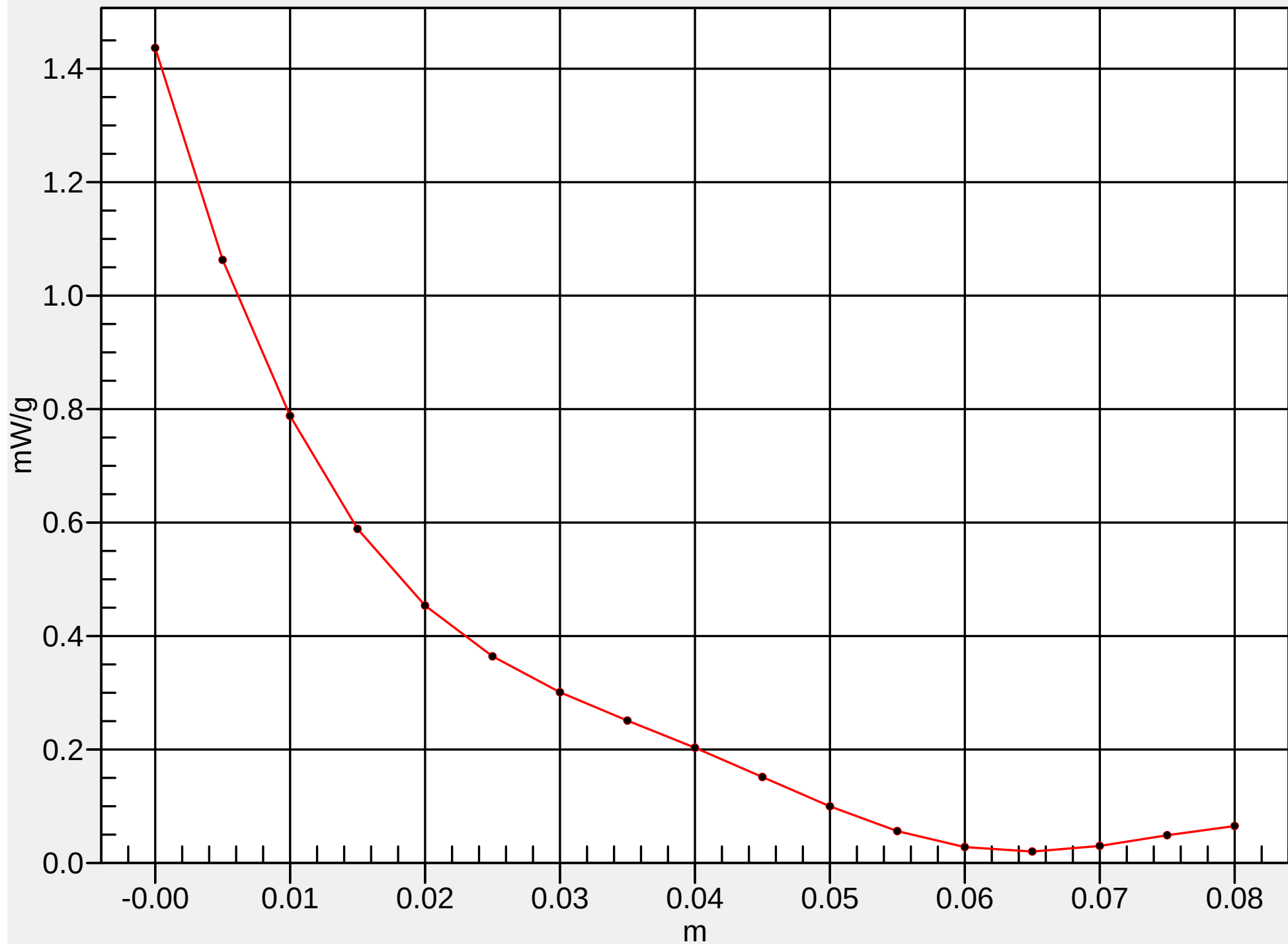
DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(7.18, 7.18, 7.18); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 7.45 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 100.6 V/m ; Power Drift = -0.67 dB Peak SAR (extrapolated) = 9.94 W/kg **SAR(1 g) = 7.13 mW/g ; SAR(10 g) = 5.26 mW/g** Maximum value of SAR (measured) = 7.71 mW/g 

$SAR(x,y,z,f_0)$

SAR; Z Scan: Value Along Z, X=0, Y=0



Date/Time: 5/30/2015 11:24:50 AM

high ch 496MHz face held**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 496 MHz; Duty Cycle: 1:1

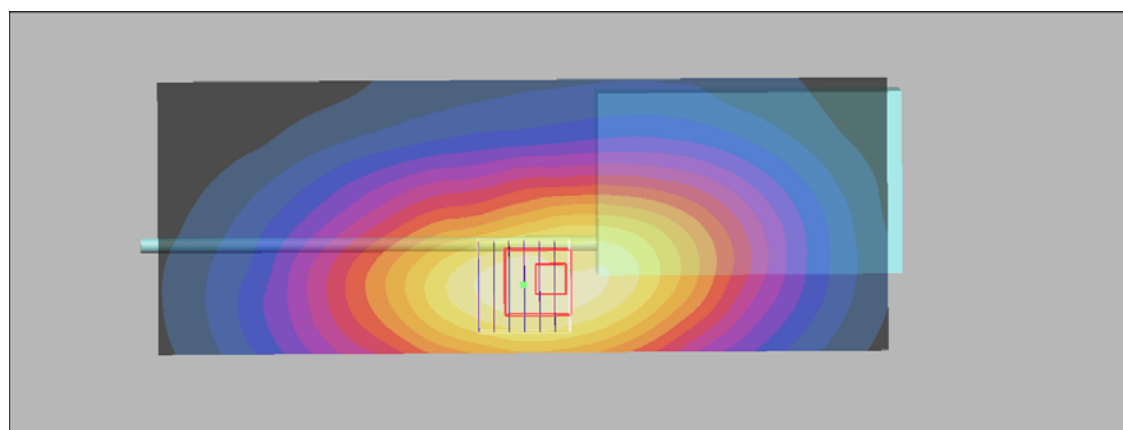
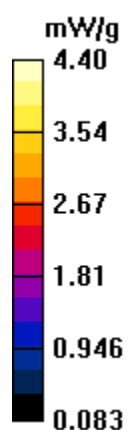
Medium parameters used: $f = 496 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 44.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(7.18, 7.18, 7.18); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 4.40 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 56.4 V/m ; Power Drift = -0.364 dB Peak SAR (extrapolated) = 5.61 W/kg **SAR(1 g) = 4.11 mW/g ; SAR(10 g) = 3.02 mW/g** Maximum value of SAR (measured) = 4.32 mW/g 

Date/Time: 5/29/2015 8:12:12 AM

high ch 511.9MHz face held**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 512 MHz; Duty Cycle: 1:1

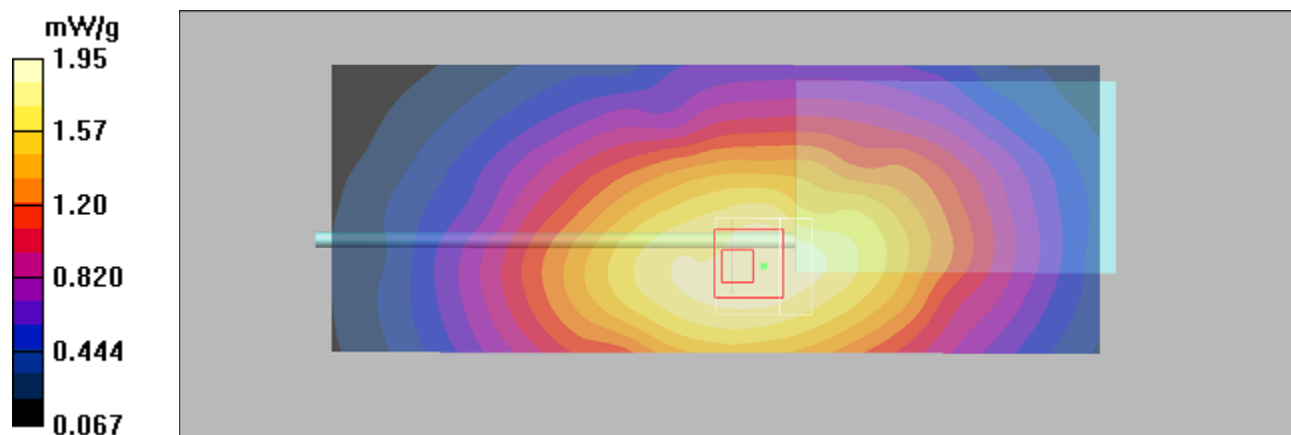
Medium parameters used: $f = 512 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 44.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(7.18, 7.18, 7.18); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 1.95 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 42.2 V/m ; Power Drift = -0.325 dB Peak SAR (extrapolated) = 2.54 W/kg **SAR(1 g) = 1.84 mW/g ; SAR(10 g) = 1.37 mW/g** Maximum value of SAR (measured) = 1.93 mW/g 

Date/Time: 5/29/2015 10:47:01 AM

low ch 450.1MHz body worn**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 450 MHz; Duty Cycle: 1:1

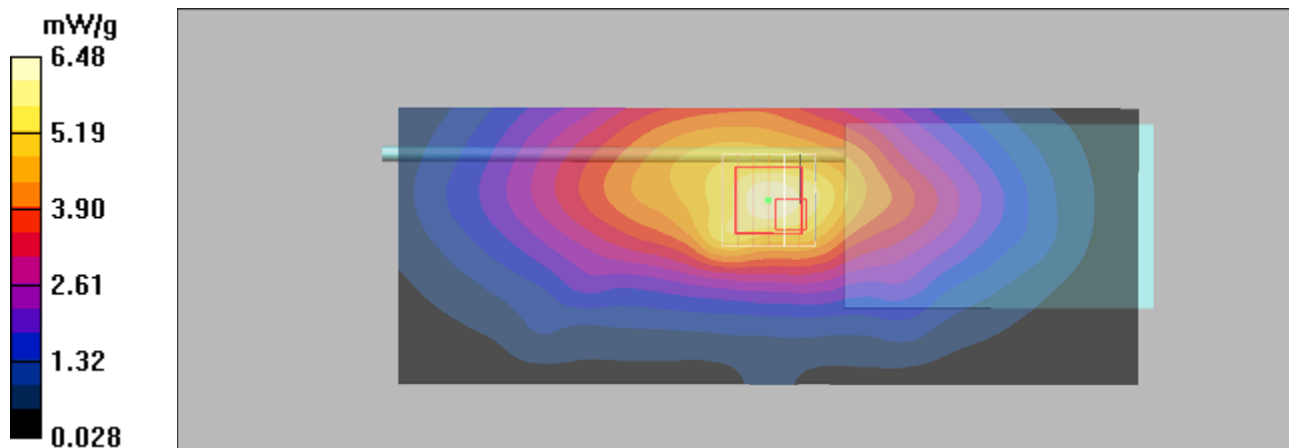
Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 61.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(6.76, 6.76, 6.76); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 6.48 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 71.3 V/m ; Power Drift = 0.183 dB Peak SAR (extrapolated) = 8.34 W/kg **SAR(1 g) = 5.61 mW/g ; SAR(10 g) = 3.95 mW/g** Maximum value of SAR (measured) = 6.24 mW/g 

Date/Time: 5/30/2015 9:30:22 AM

mid ch 465MHz body worn**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 465 MHz; Duty Cycle: 1:1

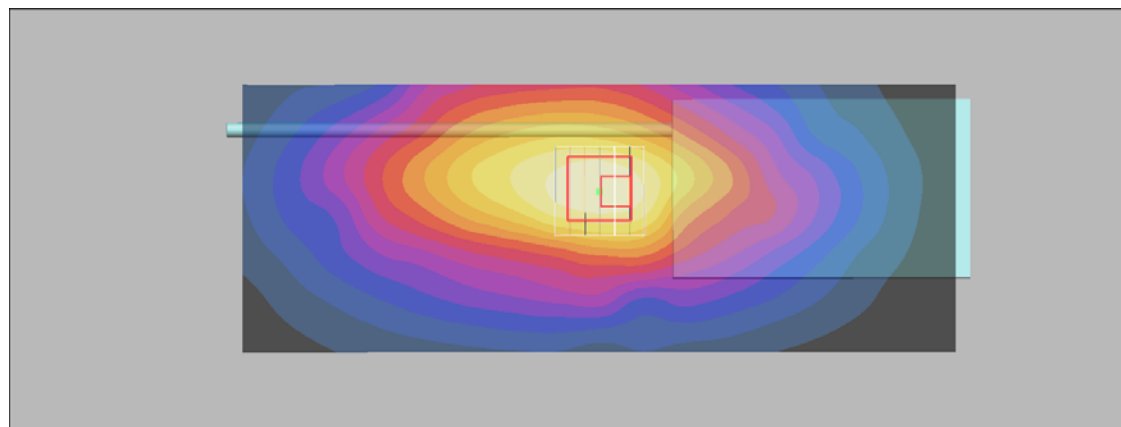
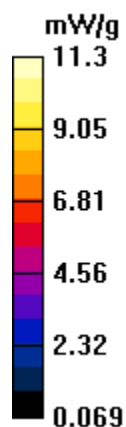
Medium parameters used: $f = 465 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 61.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

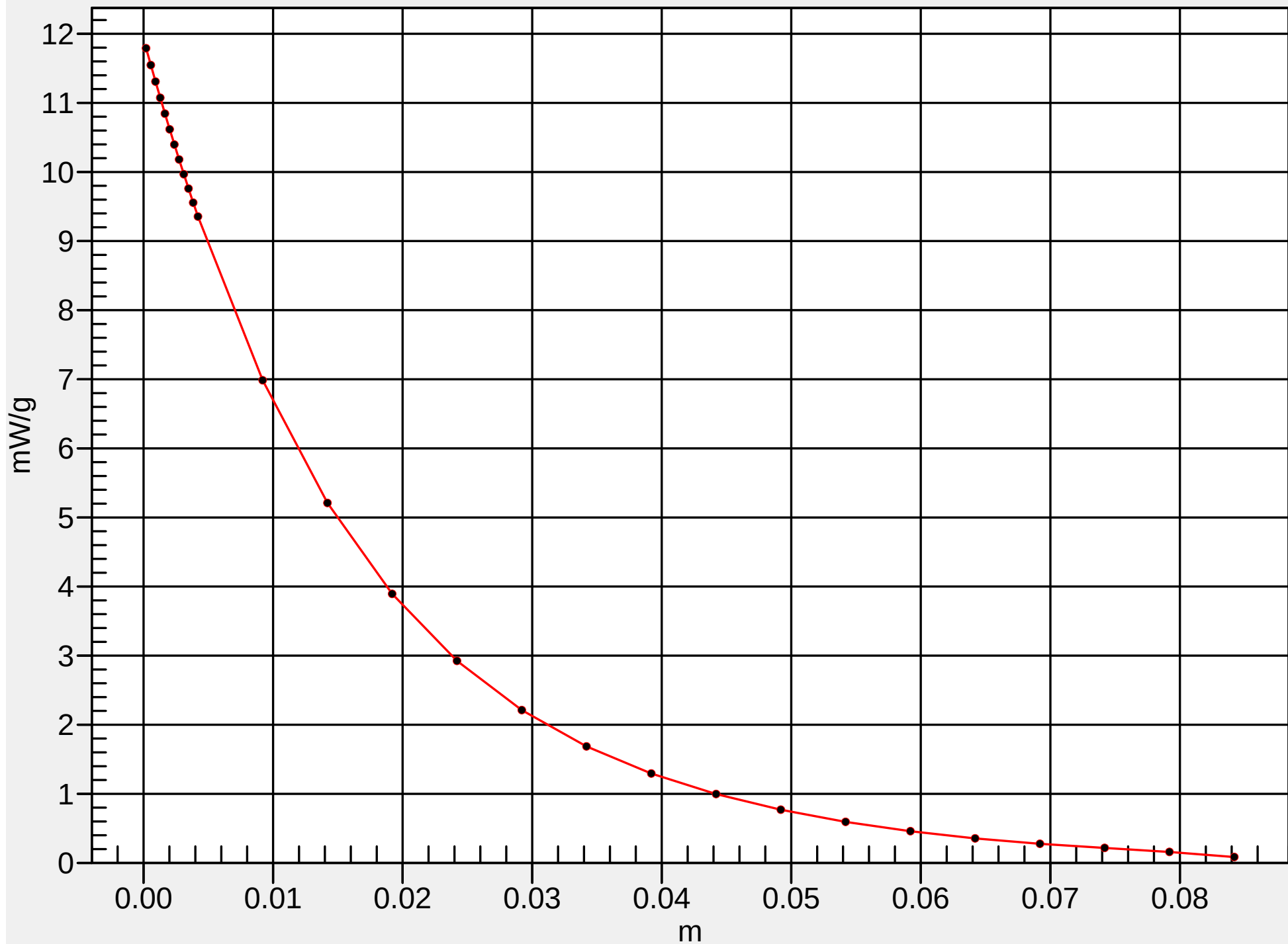
DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(6.76, 6.76, 6.76); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 11.3 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 106.9 V/m ; Power Drift = -0.735 dB Peak SAR (extrapolated) = 13.6 W/kg **SAR(1 g) = 9.85 mW/g ; SAR(10 g) = 7.18 mW/g** Maximum value of SAR (measured) = 10.7 mW/g 

Interpolated SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0



Date/Time: 5/29/2015 10:29:56 AM

mid ch 480.1MHzbody worn**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 480 MHz; Duty Cycle: 1:1

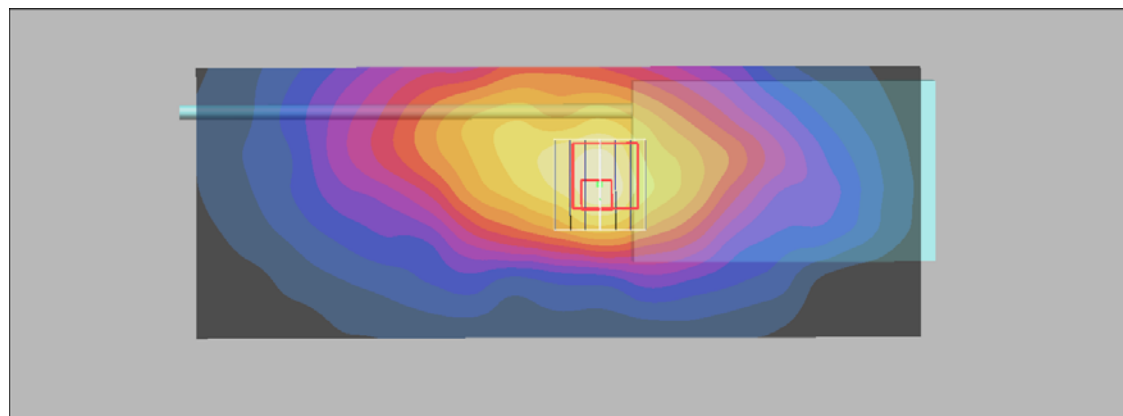
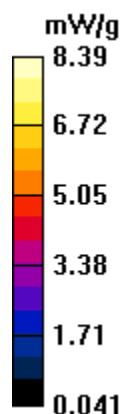
Medium parameters used: $f = 480 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 60.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(6.76, 6.76, 6.76); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 8.39 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 88.7 V/m ; Power Drift = -0.10 dB Peak SAR (extrapolated) = 8.52 W/kg **SAR(1 g) = 5.26 mW/g ; SAR(10 g) = 3.57 mW/g** Maximum value of SAR (measured) = 6.22 mW/g 

Date/Time: 5/30/2015 9:57:18 AM

mid ch 496MHz body worn**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 496 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 496 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 60.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(6.76, 6.76, 6.76); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 5.58 mW/g

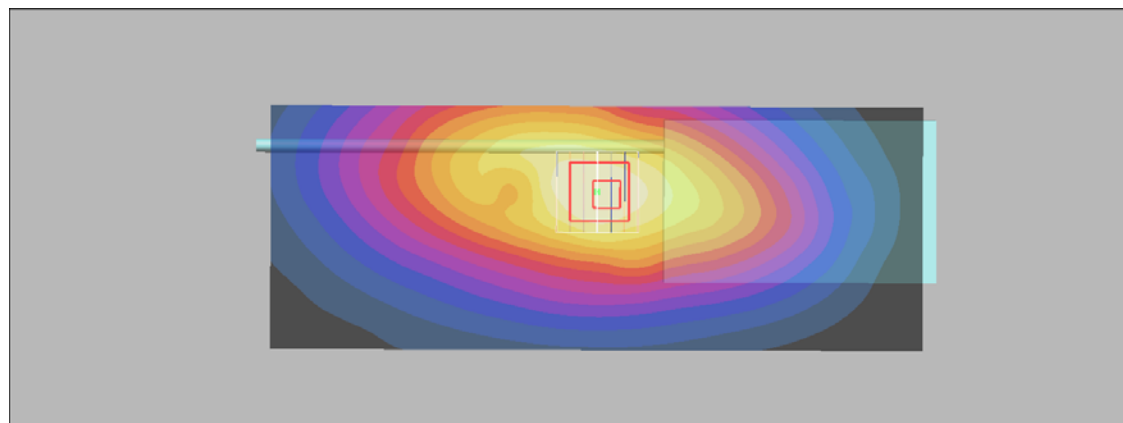
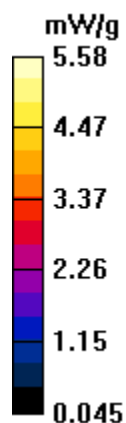
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 75.6 V/m; Power Drift = -0.401 dB

Peak SAR (extrapolated) = 7.50 W/kg

SAR(1 g) = 5.4 mW/g; SAR(10 g) = 3.91 mW/g

Maximum value of SAR (measured) = 5.70 mW/g



Date/Time: 5/29/2015 9:53:27 AM

high ch 511.9MHzbody worn**DUT: Allinco; Type: PTT; Serial: T000403**

Communication System: Alinco CW; Frequency: 512 MHz; Duty Cycle: 1:1

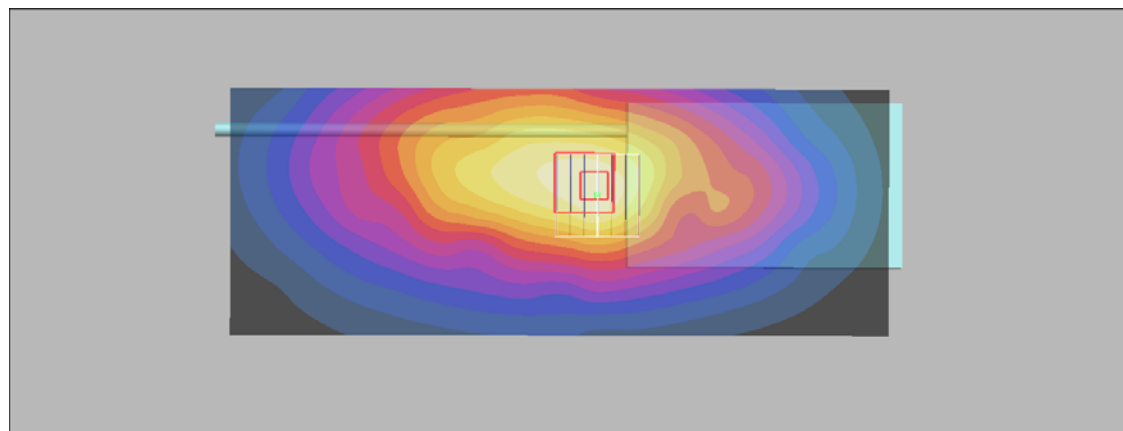
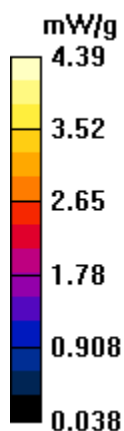
Medium parameters used: $f = 512 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 60.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

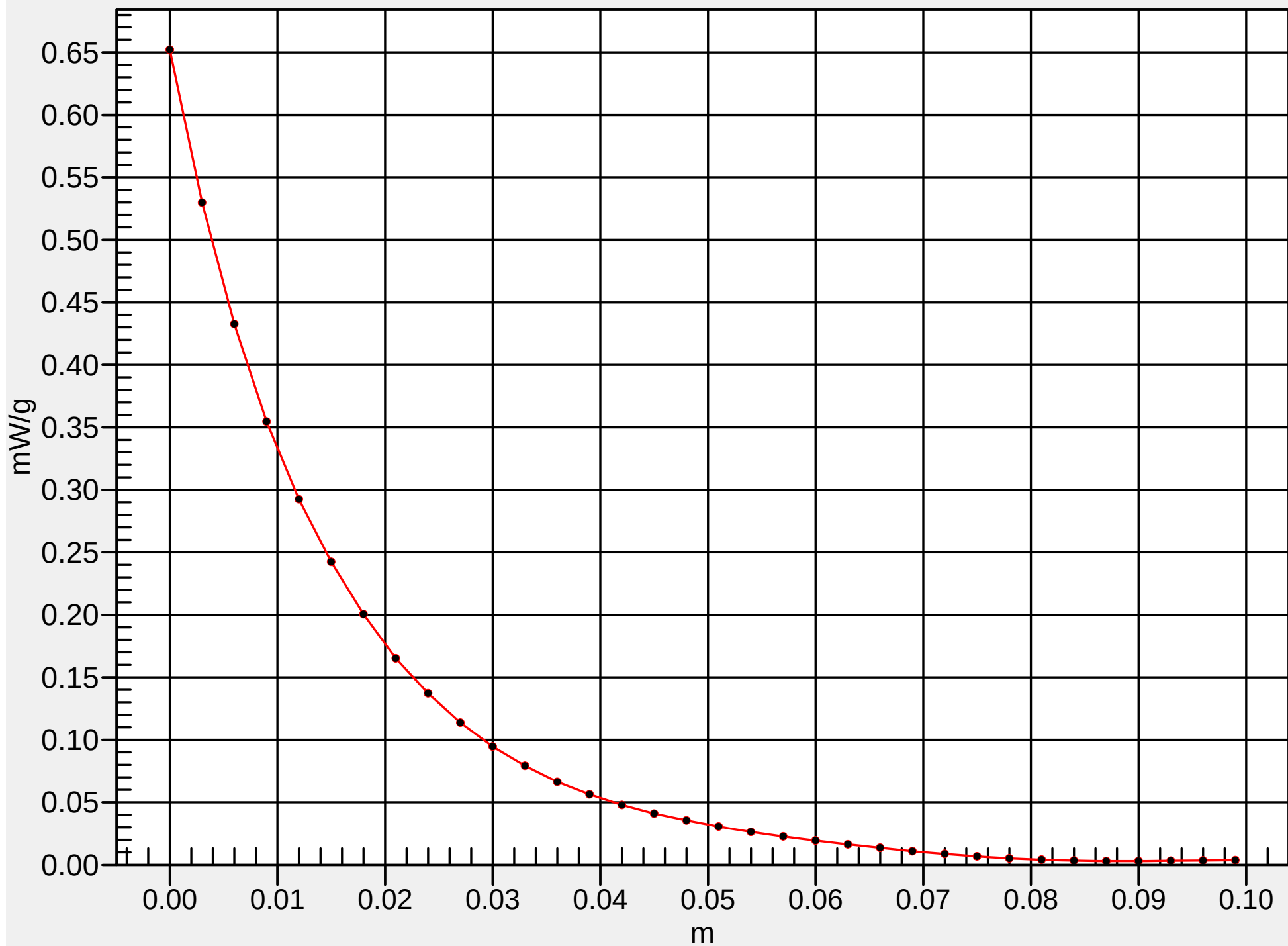
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3035; ConvF(6.76, 6.76, 6.76); Calibrated: 5/18/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn602; Calibrated: 5/22/2015
- Phantom: ELI v6.0; Type: QDOVA003AA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

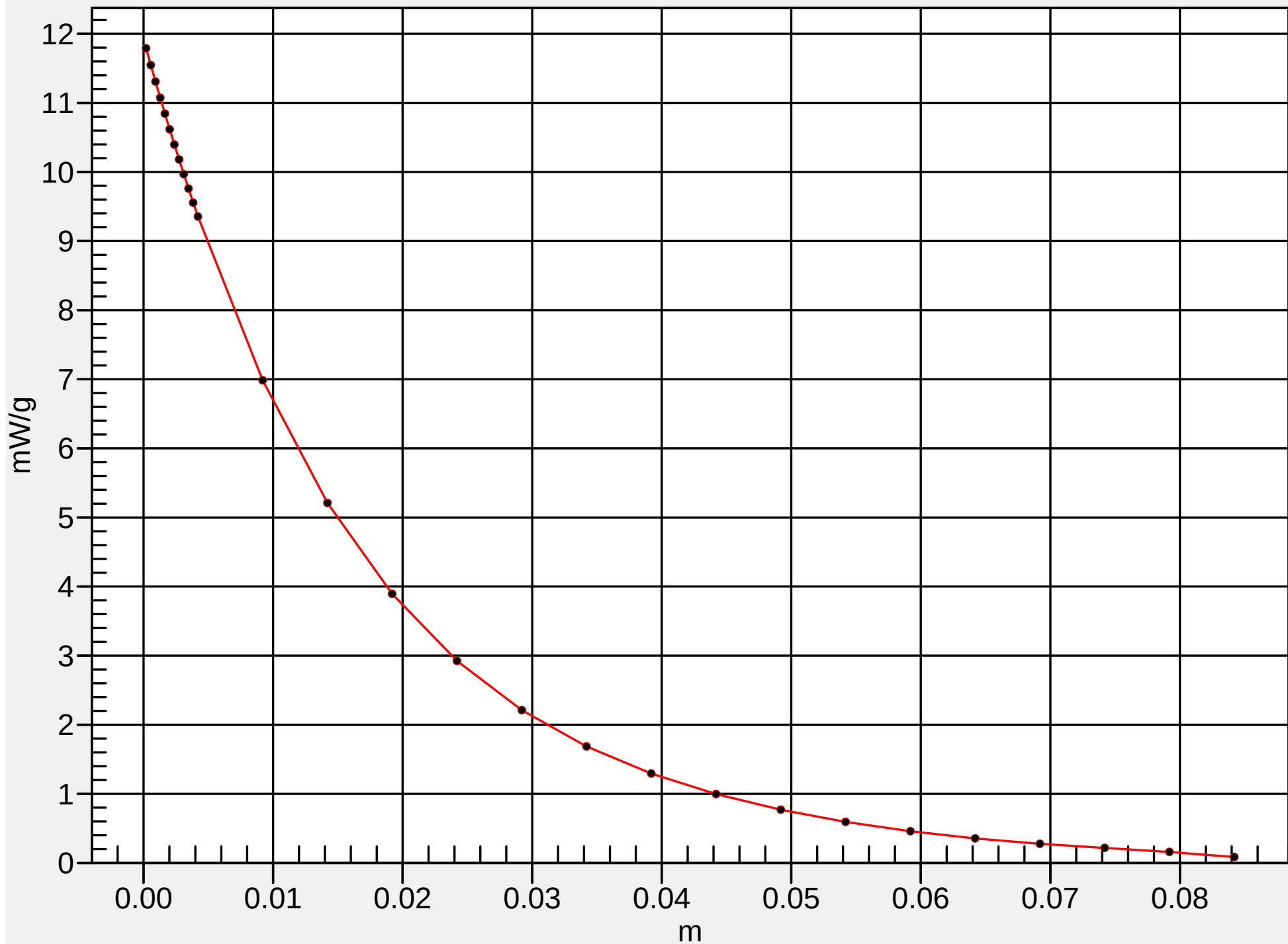
Area Scan (61x161x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 4.39 mW/g **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 65.1 V/m ; Power Drift = -0.330 dB Peak SAR (extrapolated) = 6.01 W/kg **SAR(1 g) = 4.17 mW/g ; SAR(10 g) = 2.9 mW/g** Maximum value of SAR (measured) = 4.42 mW/g 

$SAR(x,y,z,f_0)$
SAR; Z Scan: Value Along Z, X=0, Y=0

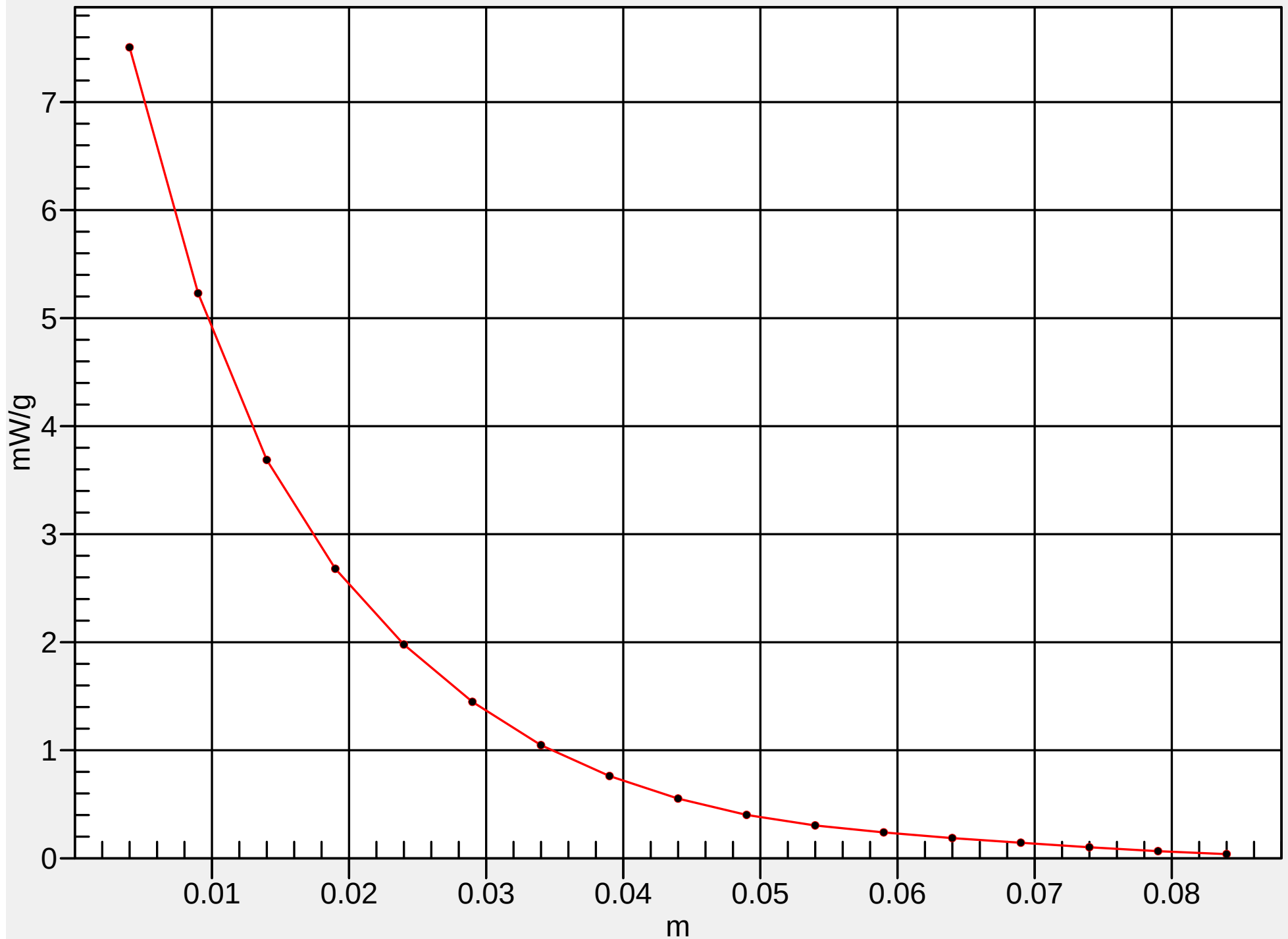


Interpolated SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0



$SAR(x,y,z,f_0)$
SAR; Z Scan: Value Along Z, X=0, Y=0



$SAR(x,y,z,f_0)$

SAR; Z Scan: Value Along Z, X=0, Y=0

