

Test Laboratory: EMC Technologies Pty Ltd

File Name: M030131 - Tait Electronics - 01-Mar-03.da4

**DUT: Tait Electronics 450MHz Type & Serial Number: Orca 5010, S/N14167041**  
**Program:Face Frontal Position; Channel 1 Test**

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

Medium: FCC 450MHz Head ( $\sigma = 0.9$  mho/m,  $\epsilon = 43.92$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: FlatSection

DASY4 Configuration:

- Probe: ET3DV6 - SN1377; ConvF(7.2, 7.2, 7.2); Calibrated: 6-Sept-2002
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn442; Calibrated: 23-Oct-2002
- Phantom: Flat Phantom - TP: P 4.4
- Software: DASY4, V4.0 Build 51

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

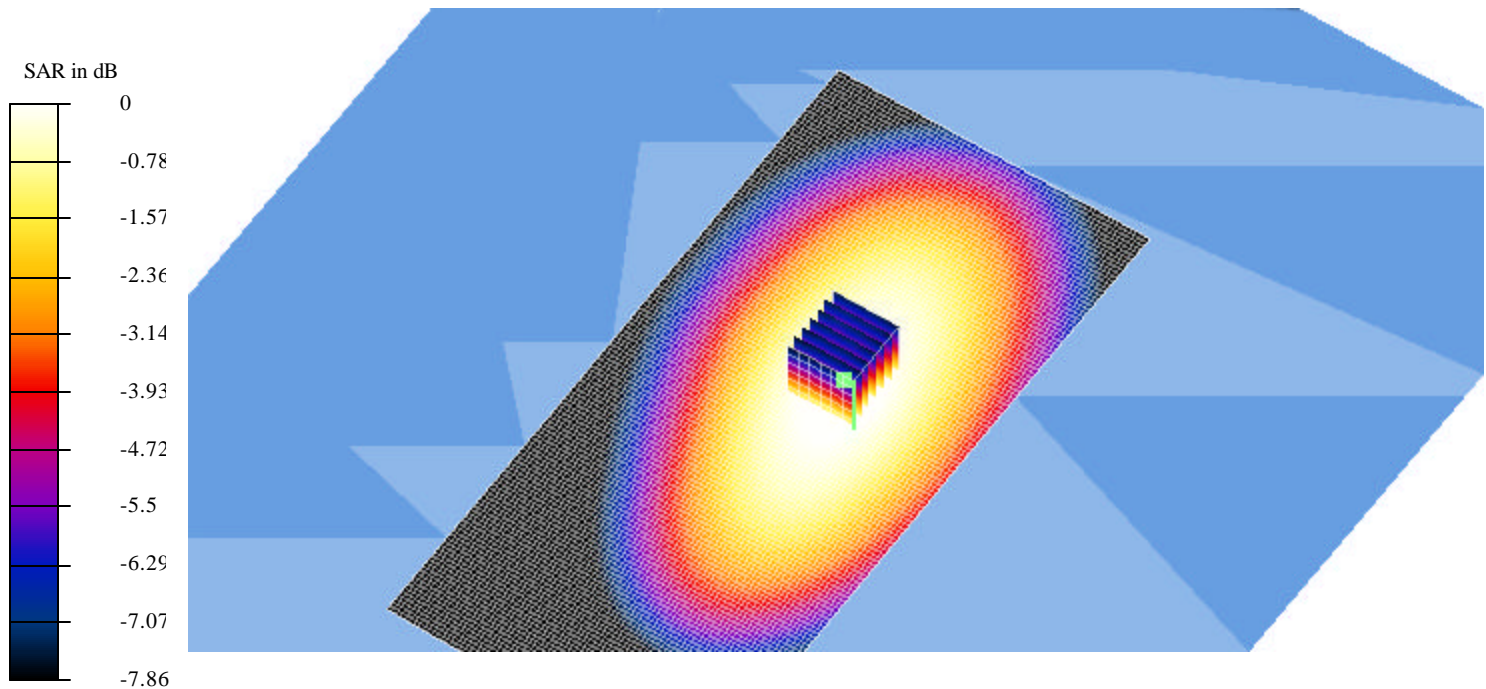
Reference Value = 12.6 V/m

Peak SAR = 3.26 mW/g

SAR(1 g) = 2.35 mW/g; SAR(10 g) = 1.7 mW/g

Power Drift = -1 dB

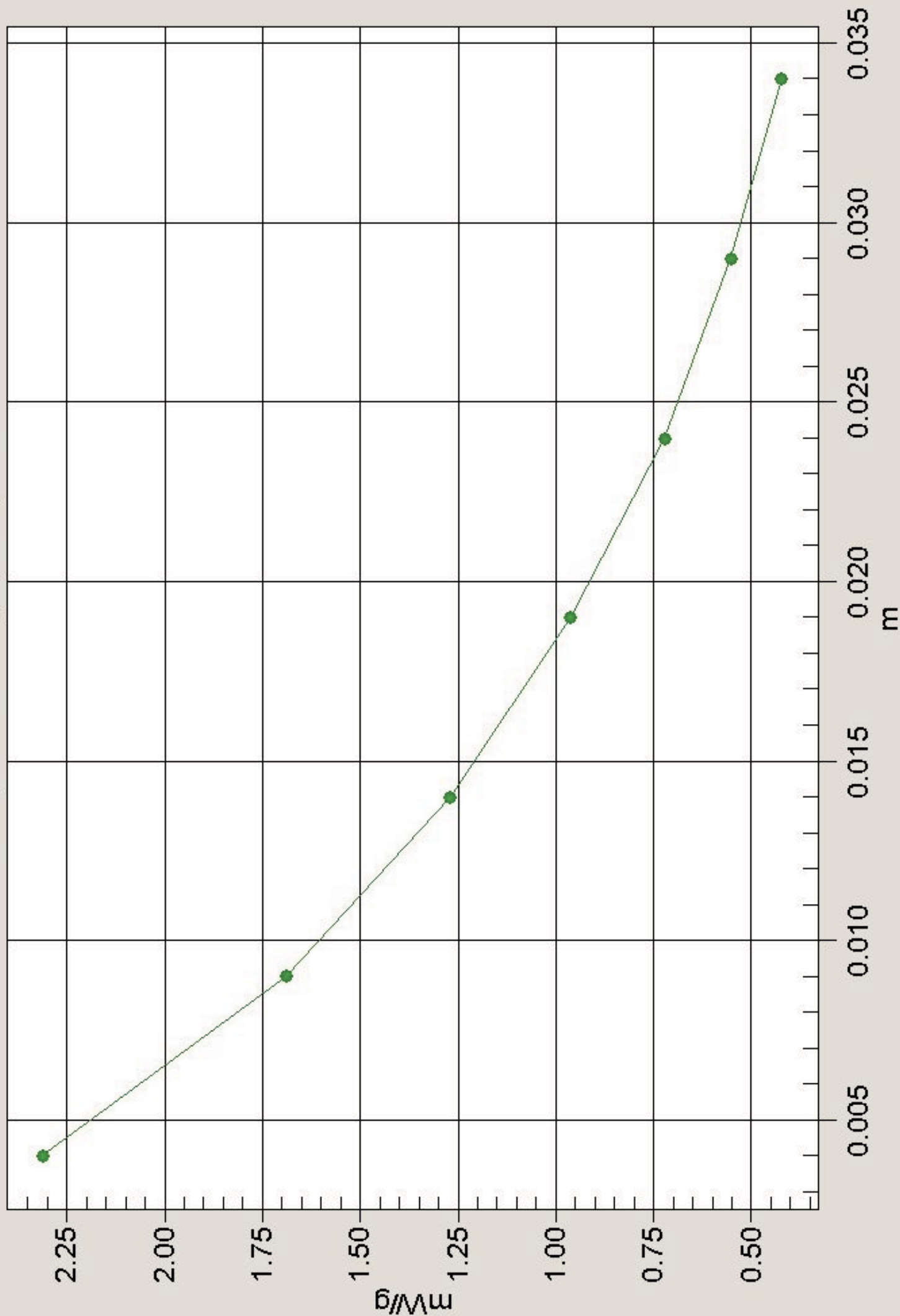
**Area Scan (71x151x1):** Measurement grid: dx=20mm, dy=20mm



Temperature Ambient = 21.4°C    Liquid = 20.4°C    Humidity = 44%

# Averaged SAR

SAR, Value Along Z, X=0, Y=0



Test Laboratory: EMC Technologies Pty Ltd

File Name: M030131 - Tait Electronics - 01-Mar-03a.da4

**DUT: Tait Electronics 450MHz Type & Serial Number: Orca 5010, S/N14167041**  
**Program:Face Frontal Position; Channel 2 Test**

Communication System: CW 450 MHz; Frequency: 490 MHz; Duty Cycle: 1:1

Medium: FCC 450MHz Head ( $\sigma = 0.9$  mho/m,  $\epsilon = 43.92$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: FlatSection

DASY4 Configuration:

- Probe: ET3DV6 - SN1377; ConvF(7.2, 7.2, 7.2); Calibrated: 6-Sept-2002
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn442; Calibrated: 23-Oct-2002
- Phantom: Flat Phantom - TP: P 4.4
- Software: DASY4, V4.0 Build 51

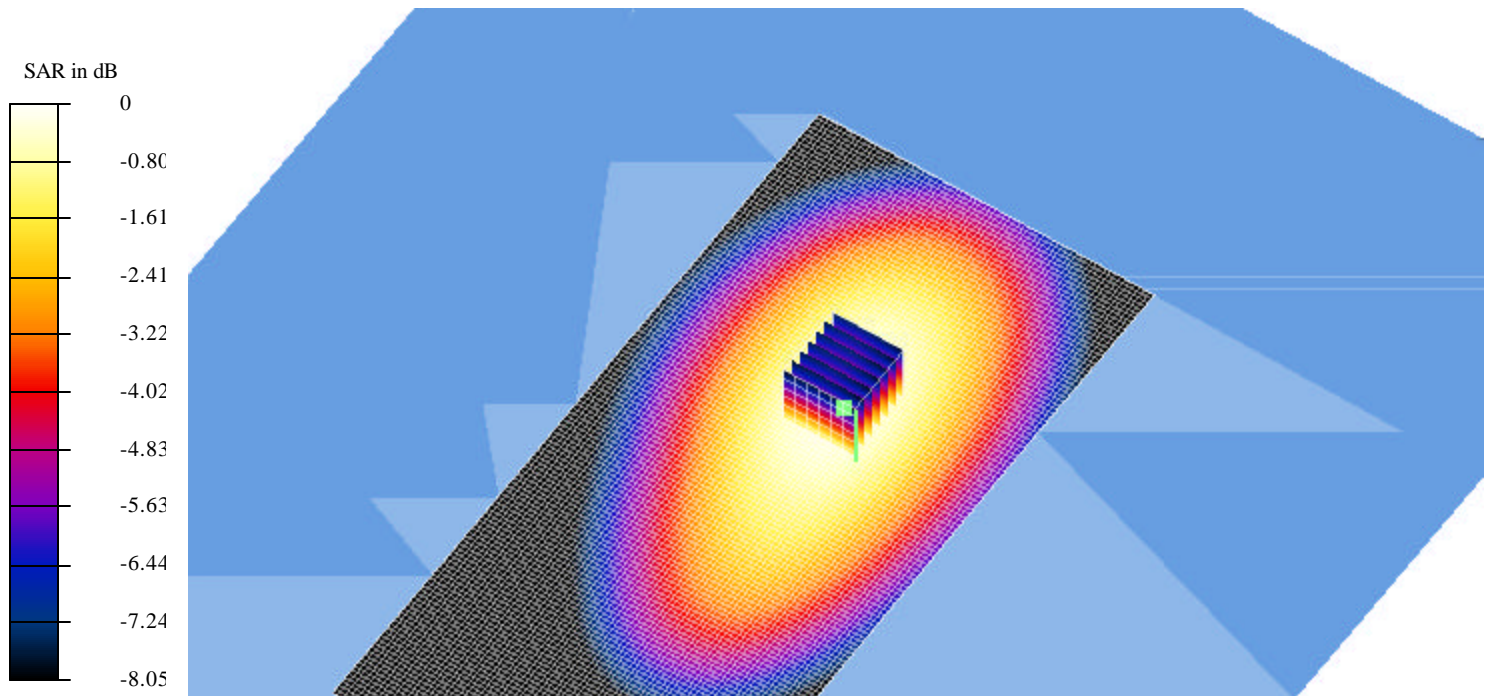
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm

Reference Value = 10.1 V/m

Peak SAR = 3.86 mW/g

SAR(1 g) = 2.81 mW/g; SAR(10 g) = 2.04 mW/g

Power Drift = 0.1 dB

**Area Scan (71x151x1):** Measurement grid: dx=20mm, dy=20mm

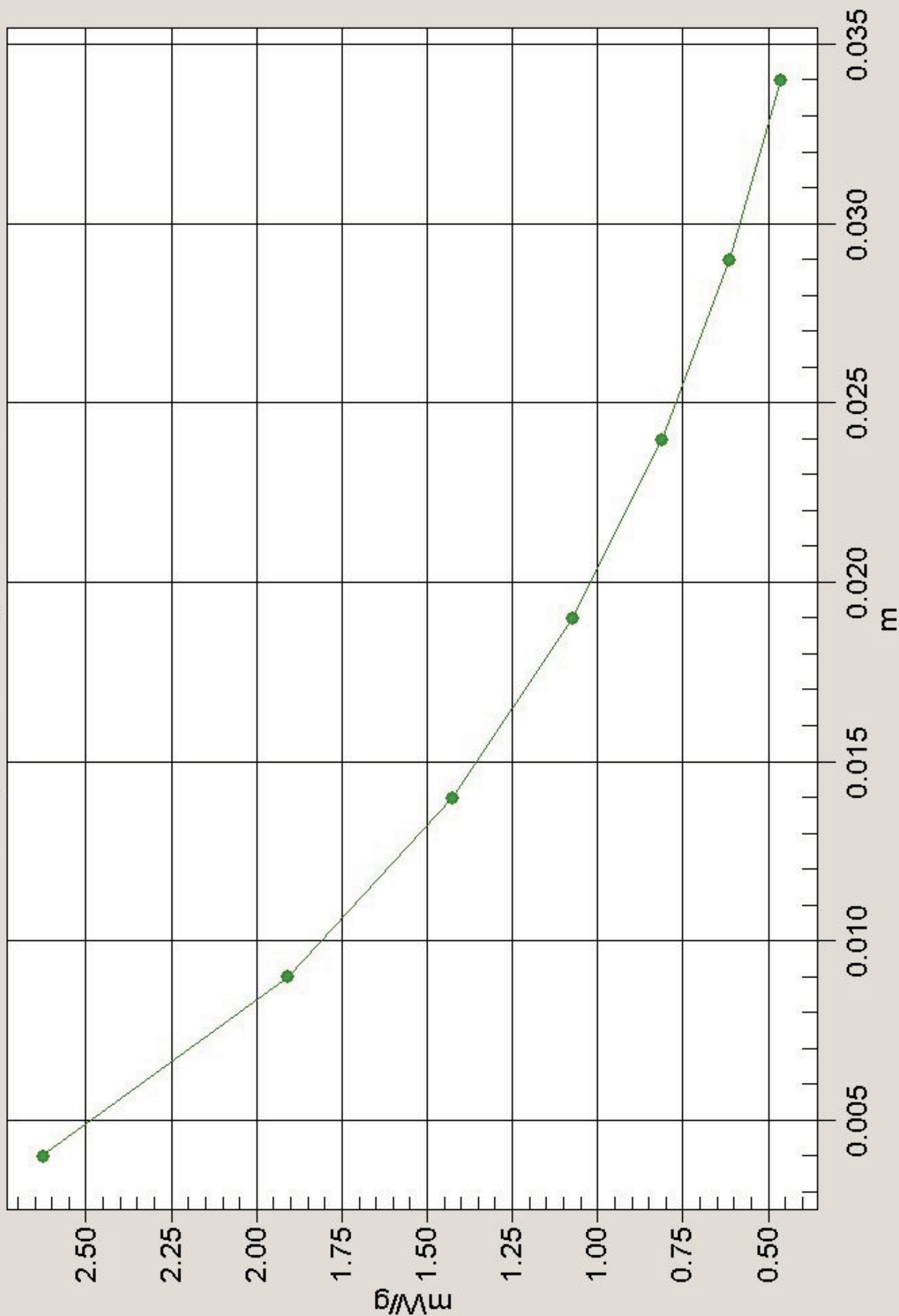
Temperature Ambient = 21.4°C

Liquid = 20.4°C

Humidity = 44%

# Averaged SAR

SAR, Value Along Z, X=0, Y=0



Test Laboratory: EMC Technologies Pty Ltd

File Name: M030131 - Tait Electronics - 01-Mar-03.da4

**DUT: Tait Electronics 450MHz Type & Serial Number: Orca 5010, S/N14167041**  
**Program:Face Frontal Position; Channel 3 Test 2**

Communication System: CW 450 MHz; Frequency: 530 MHz; Duty Cycle: 1:1  
Medium: FCC 450MHz Head ( $\sigma = 0.89$  mho/m,  $\epsilon = 43.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: FlatSection

## DASY4 Configuration:

- Probe: ET3DV6 - SN1377; ConvF(7.2, 7.2, 7.2); Calibrated: 6-Sept-2002
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn442; Calibrated: 23-Oct-2002
- Phantom: Flat Phantom - TP: P 4.4
- Software: DASY4, V4.0 Build 51

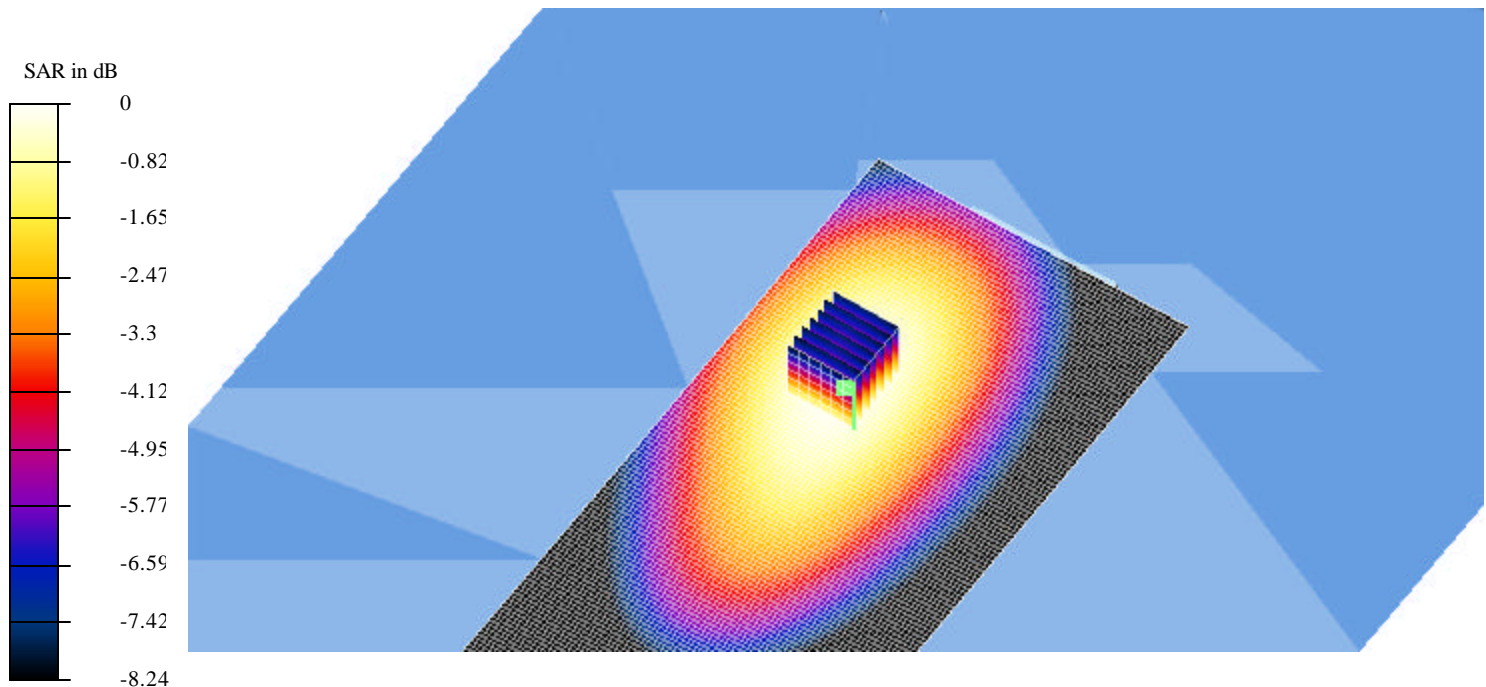
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm

Reference Value = 53.4V/m

Peak SAR = 6.5 mW/g

SAR(1 g) = 4.66 mW/g; SAR(10 g) = 3.36 mW/g

Power Drift = -0.3 dB

**Area Scan (71x151x1):** Measurement grid: dx=20mm, dy=20mm

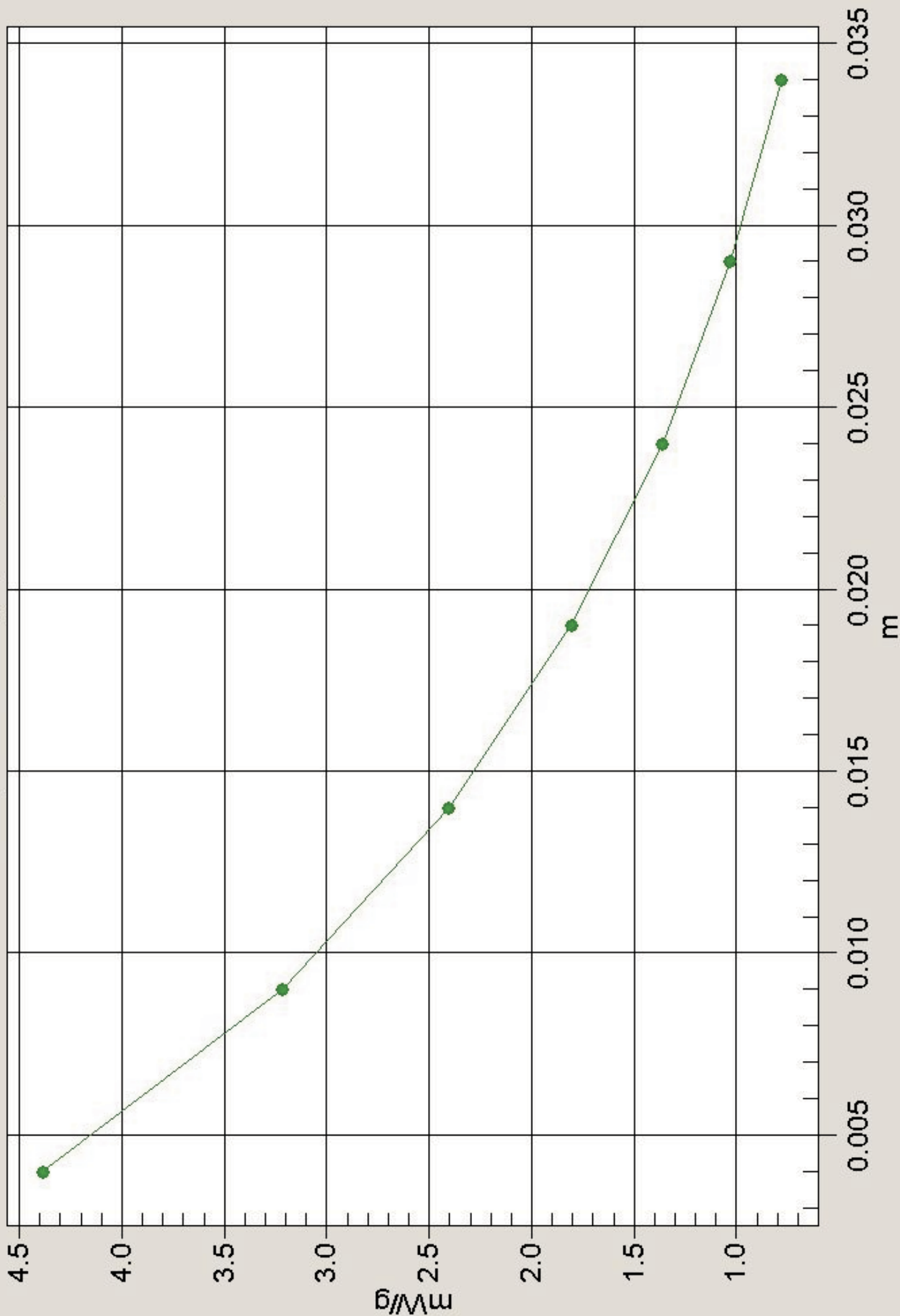
Temperature Ambient = 21.4°C

Liquid = 20.4°C

Humidity = 44%

# Averaged SAR

SAR, Value Along Z, X=0, Y=0



Test Laboratory: EMC Technologies Pty Ltd

File Name: M030131 - Tait Electronics - 01-Mar-03.da4

**DUT: Tait Electronics 450MHz Type & Serial Number: Orca 5010, S/N14167041****Program: Face Frontal Position; Channel 3 Test 3 With the Battery Supplemented by 7.5V DC Supply**

Communication System: CW 450 MHz; Frequency: 530 MHz; Duty Cycle: 1:1

Medium: FCC 450MHz Head ( $\sigma = 0.89$  mho/m,  $\epsilon = 43.25$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: FlatSection

DASY4 Configuration:

- Probe: ET3DV6 - SN1377; ConvF(7.2, 7.2, 7.2); Calibrated: 6-Sept-2002

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

- Electronics: DAE3 Sn442; Calibrated: 23-Oct-2002

- Phantom: Flat Phantom - TP: P 4.4

- Software: DASY4, V4.0 Build 51

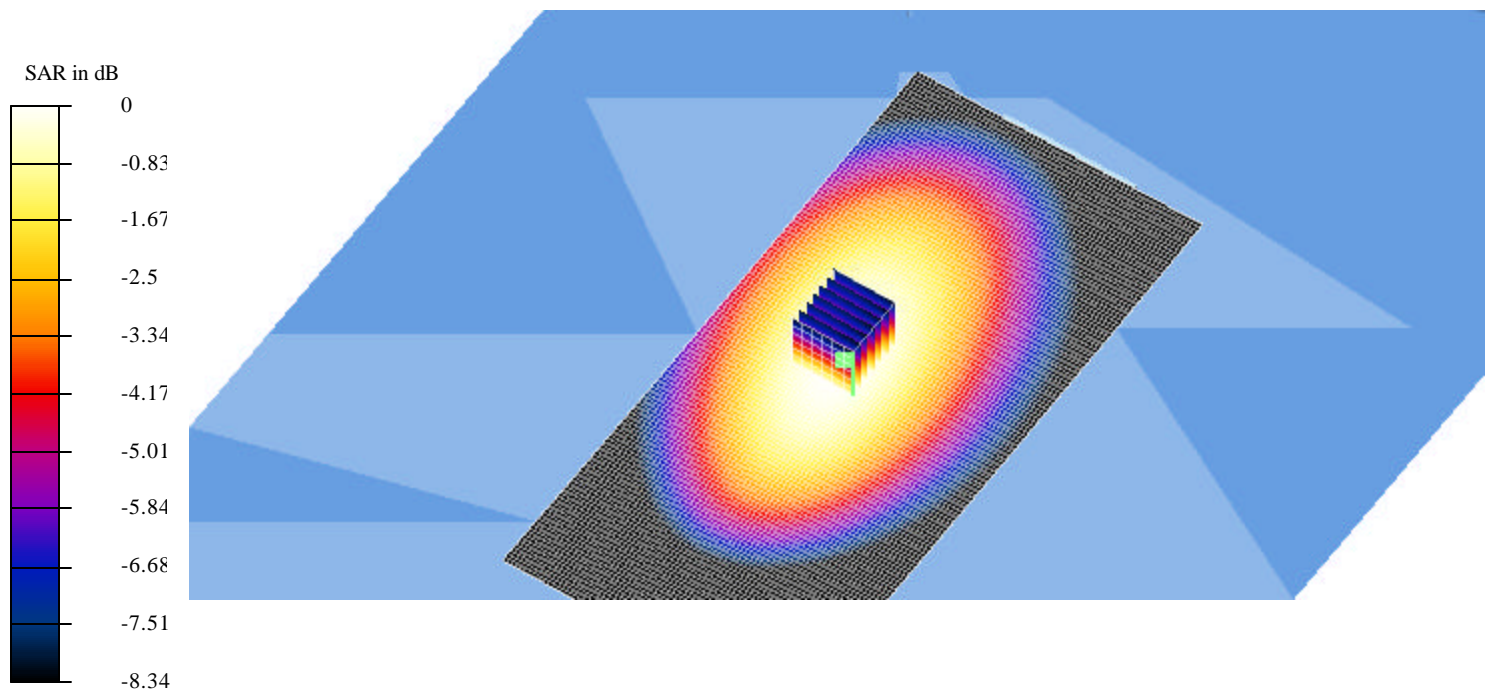
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm

Reference Value = 54.4 V/m

Peak SAR = 4.82 mW/g

SAR(1 g) = 3.48 mW/g; SAR(10 g) = 2.5 mW/g

Power Drift = -0.4 dB

**Area Scan (71x151x1):** Measurement grid: dx=20mm, dy=20mm

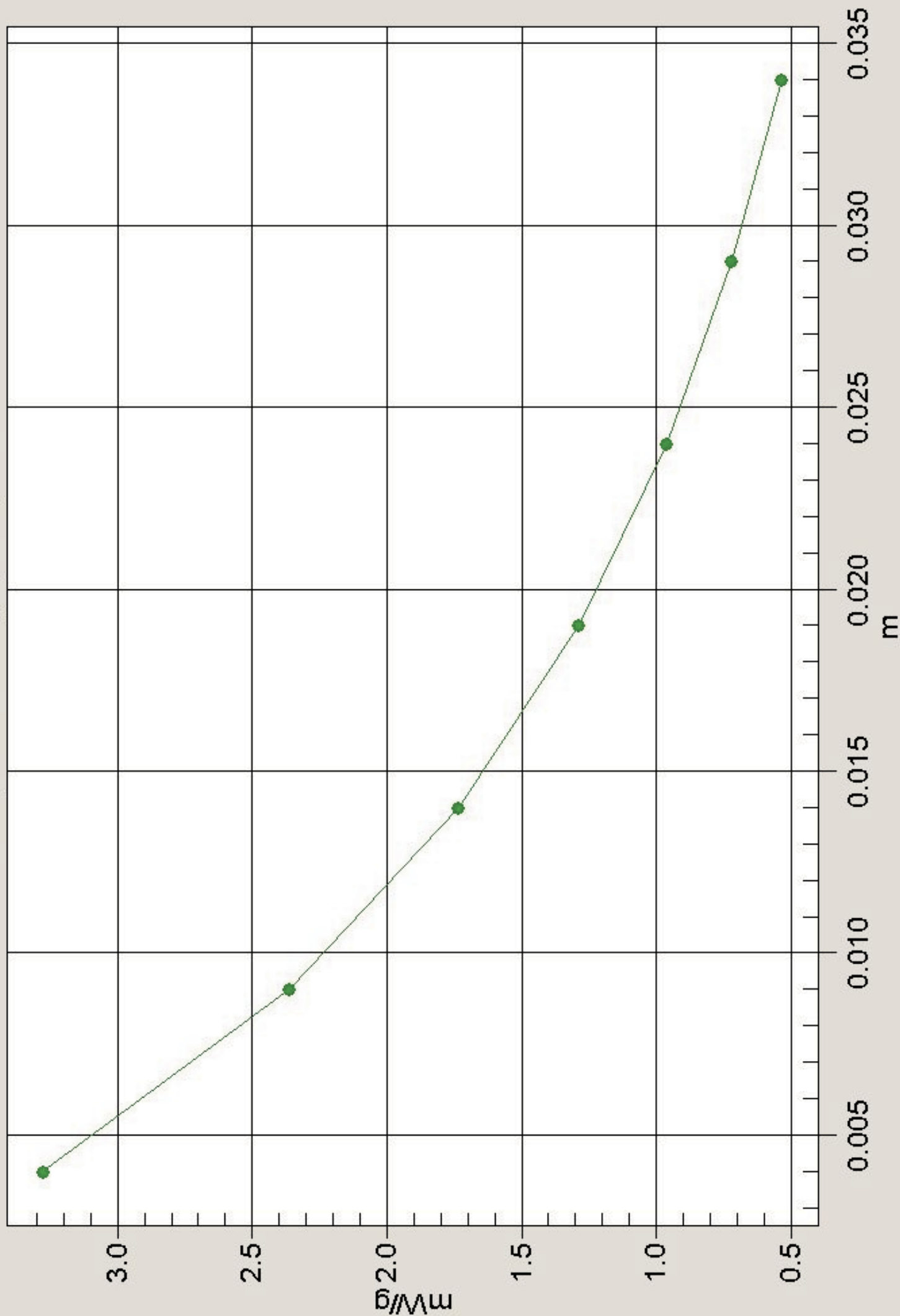
Temperature Ambient = 21.4°C

Liquid = 20.4°C

Humidity = 44%

# Averaged SAR

SAR, Value Along Z, X=0, Y=0





Test Laboratory: EMC Technologies Pty Ltd

File Name: M030131 - Tait Electronics - 01-Mar-03.da4

**DUT: Tait Electronics 450MHz Type & Serial Number: Orca 510, S/N 14167041**  
**Program: Belt-Clip Position; Channel 1 Test**

Communication System: CW 450 MHz; Frequency: 450 MHz; Duty Cycle: 1:1  
Medium: FCC 450MHz Body ( $\sigma = 0.94$  mho/m,  $\epsilon = 56.23$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: FlatSection

## DASY4 Configuration:

- Probe: ET3DV6 - SN1377; ConvF(7.2, 7.2, 7.2); Calibrated: 6-Sept-2002
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn442; Calibrated: 23-Oct-2002
- Phantom: Flat Phantom - TP: P 4.4
- Software: DASY4, V4.0 Build 51

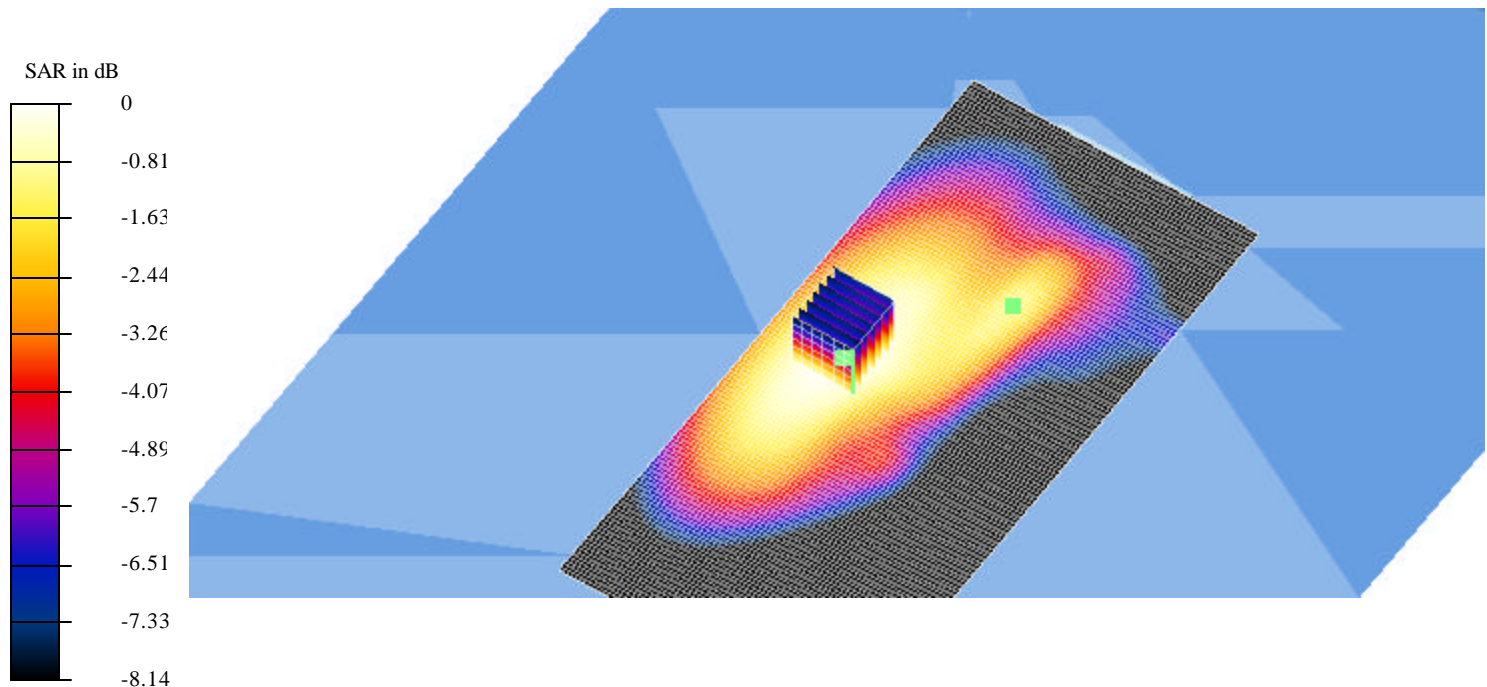
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm

Reference Value = 42.7 V/m

Peak SAR = 5.05 mW/g

SAR(1 g) = 3.57 mW/g; SAR(10 g) = 2.56 mW/g

Power Drift = -3 dB

**Area Scan (71x151x1):** Measurement grid: dx=20mm, dy=20mm

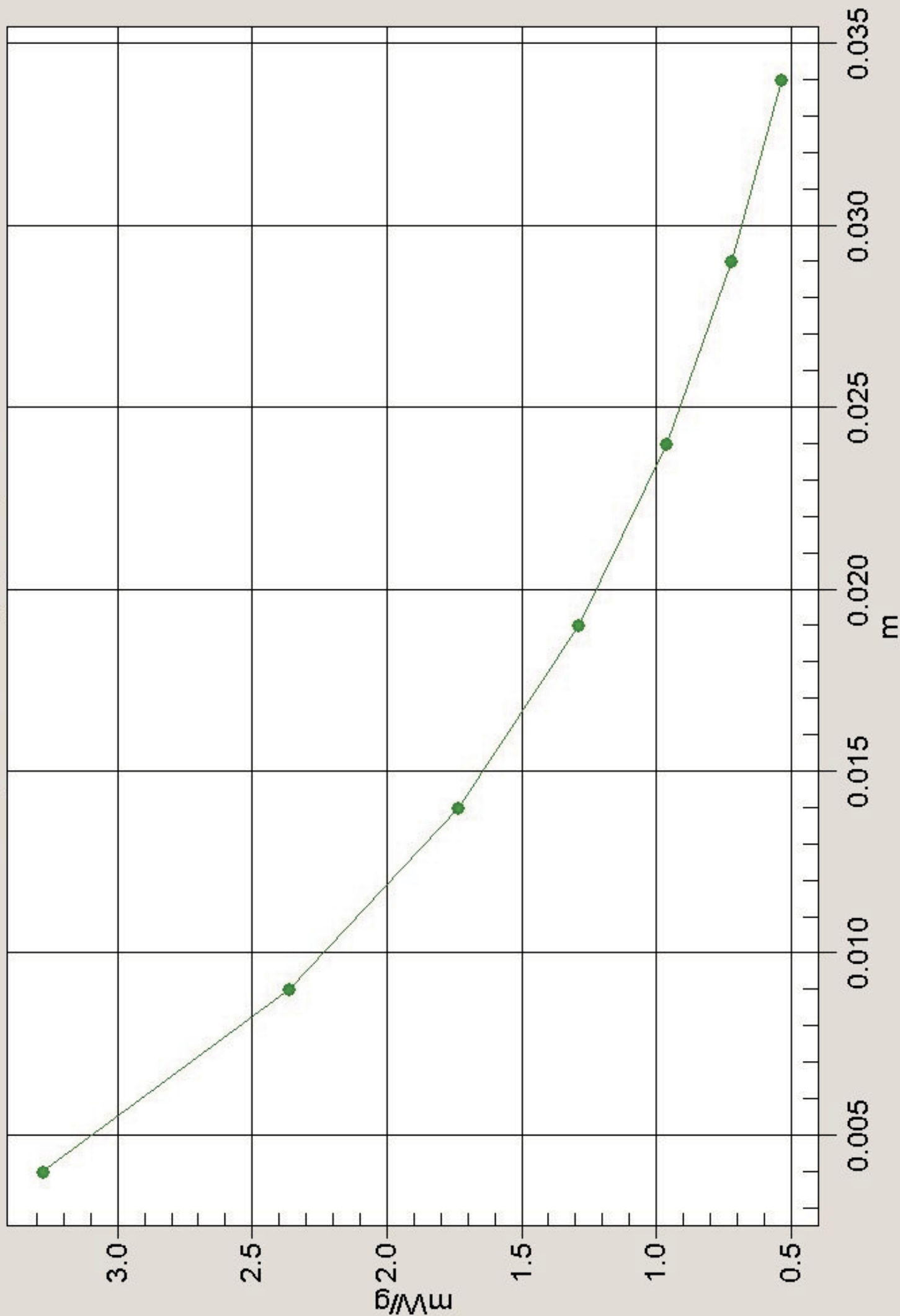
Temperature Ambient = 21.4°C

Liquid = 20.4°C

Humidity = 44%

# Averaged SAR

SAR, Value Along Z, X=0, Y=0



Test Laboratory: EMC Technologies Pty Ltd

File Name: M030131 - Tait Electronics - 01-Mar-03.da4

**DUT: Tait Electronics 450MHz Type & Serial Number: Orca 510, S/N 14167041**  
**Program: Belt-Clip Position; Channel 2 Test**

Communication System: CW 450 MHz; Frequency: 490 MHz; Duty Cycle: 1:1  
Medium: FCC 450MHz Body ( $\sigma = 0.94$  mho/m,  $\epsilon = 56.23$ ,  $\rho = 1000$  kg/m<sup>3</sup>)  
Phantom section: FlatSection

## DASY4 Configuration:

- Probe: ET3DV6 - SN1377; ConvF(7.2, 7.2, 7.2); Calibrated: 6-Sept-2002
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn442; Calibrated: 23-Oct-2002
- Phantom: Flat Phantom - TP: P 4.4
- Software: DASY4, V4.0 Build 51

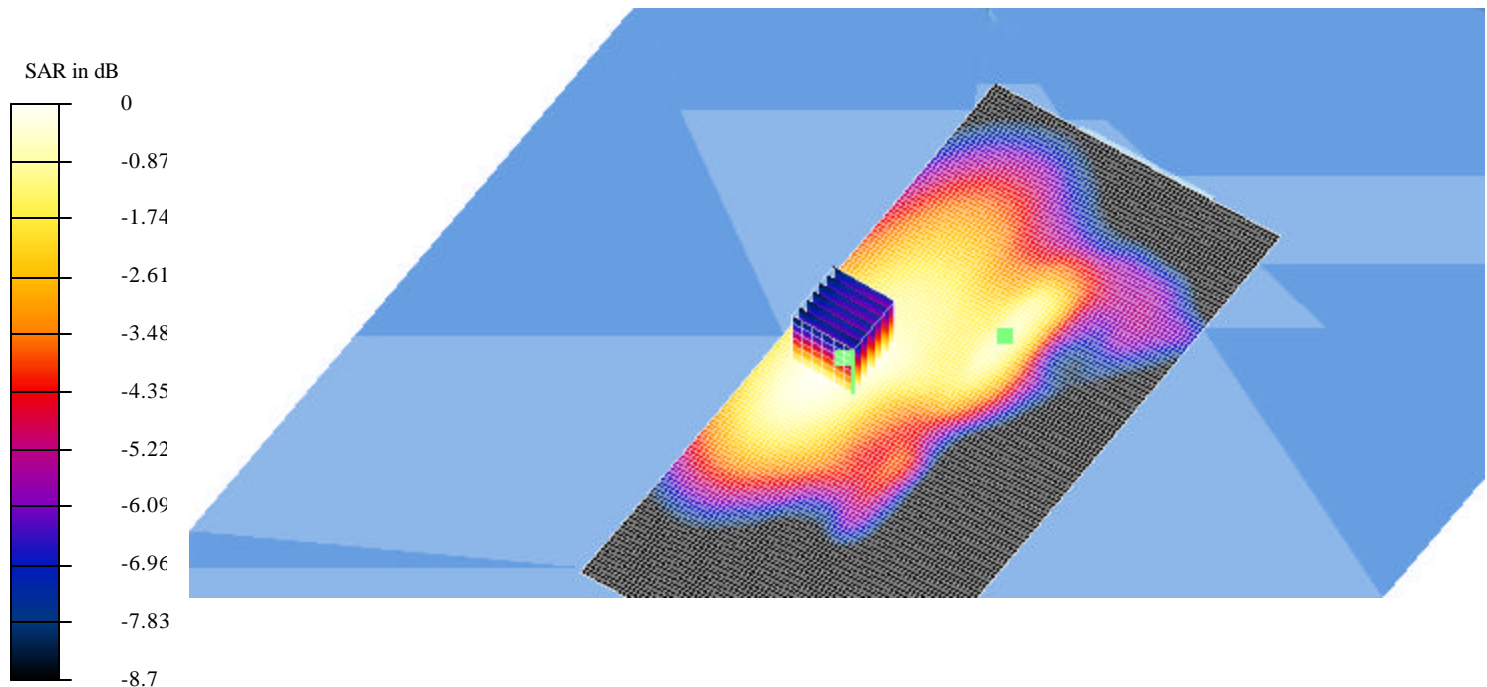
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm

Reference Value = 44.9 V/m

Peak SAR = 5.67 mW/g

SAR(1 g) = 4.01 mW/g; SAR(10 g) = 2.84 mW/g

Power Drift = -0.3 dB

**Area Scan (71x151x1):** Measurement grid: dx=20mm, dy=20mm

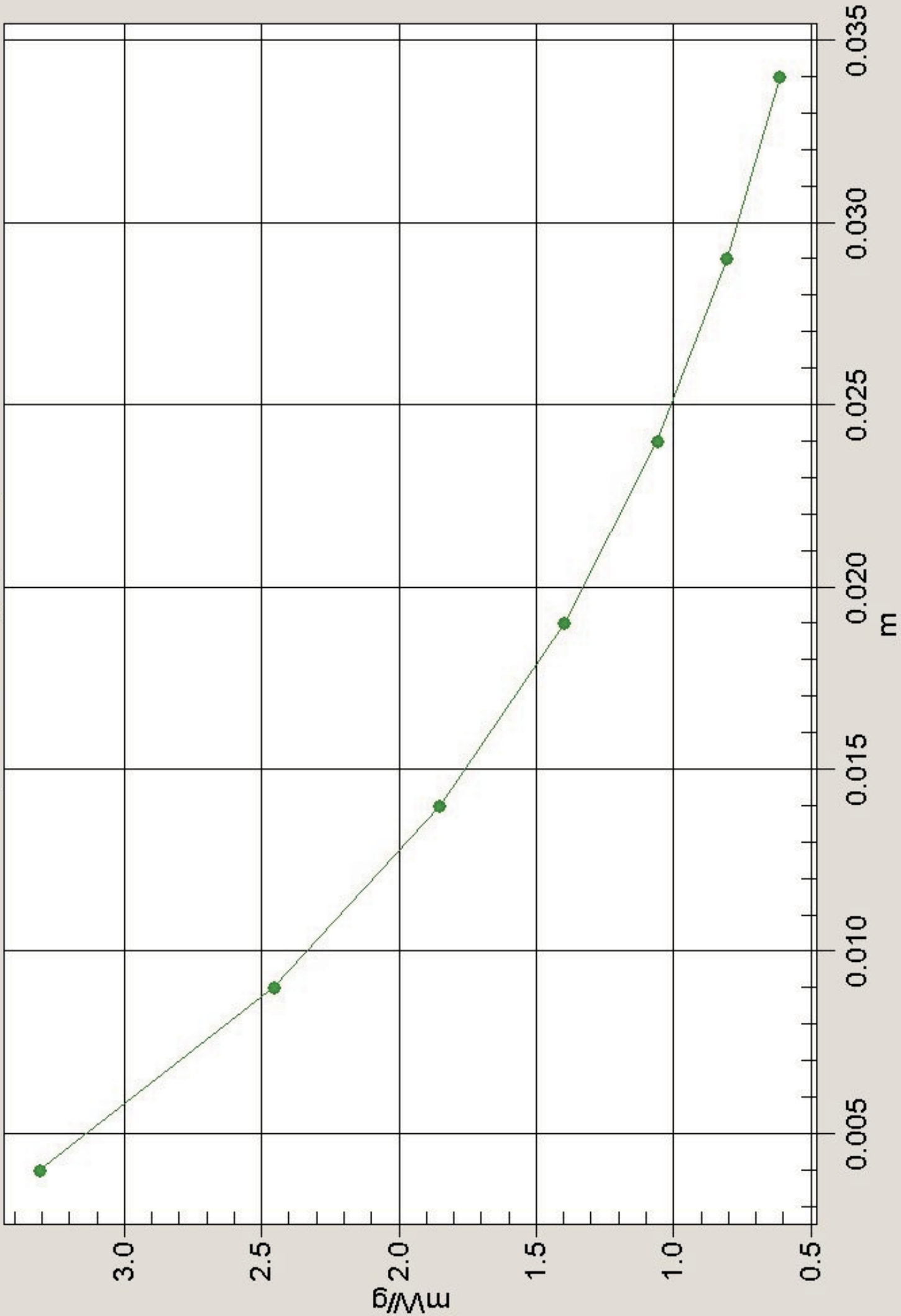
Temperature Ambient = 21.4°C

Liquid = 20.4°C

Humidity = 44%

# Averaged SAR

SAR, Value Along Z, X=0, Y=0



Test Laboratory: EMC Technologies Pty Ltd

File Name: M030131 - Tait Electronics - 01-Mar-03.da4

**DUT: Tait Electronics 450MHz Type & Serial Number: Orca 510, S/N 14167041**  
**Program: Belt-Clip Position; Channel 3 Test**

Communication System: CW 450 MHz; Frequency: 530 MHz; Duty Cycle: 1:1

Medium: FCC 450MHz Body ( $\sigma = 1$  mho/m,  $\epsilon = 54.63$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: FlatSection

DASY4 Configuration:

- Probe: ET3DV6 - SN1377; ConvF(7.2, 7.2, 7.2); Calibrated: 6-Sept-2002
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn442; Calibrated: 23-Oct-2002
- Phantom: Flat Phantom - TP: P 4.4
- Software: DASY4, V4.0 Build 51

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

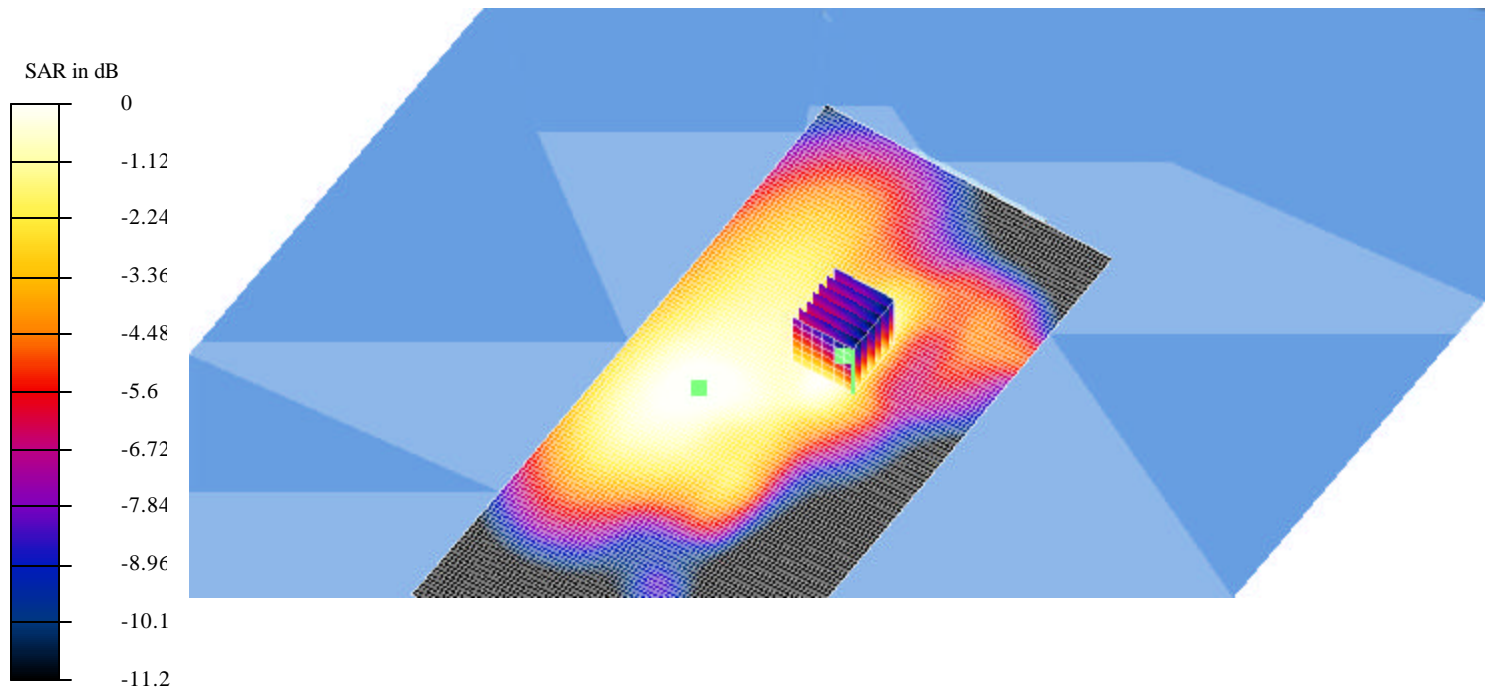
Reference Value = 59.8 V/m

Peak SAR = 12.8 mW/g

SAR(1 g) = 5.76 mW/g; SAR(10 g) = 3.53 mW/g

Power Drift = -1 dB

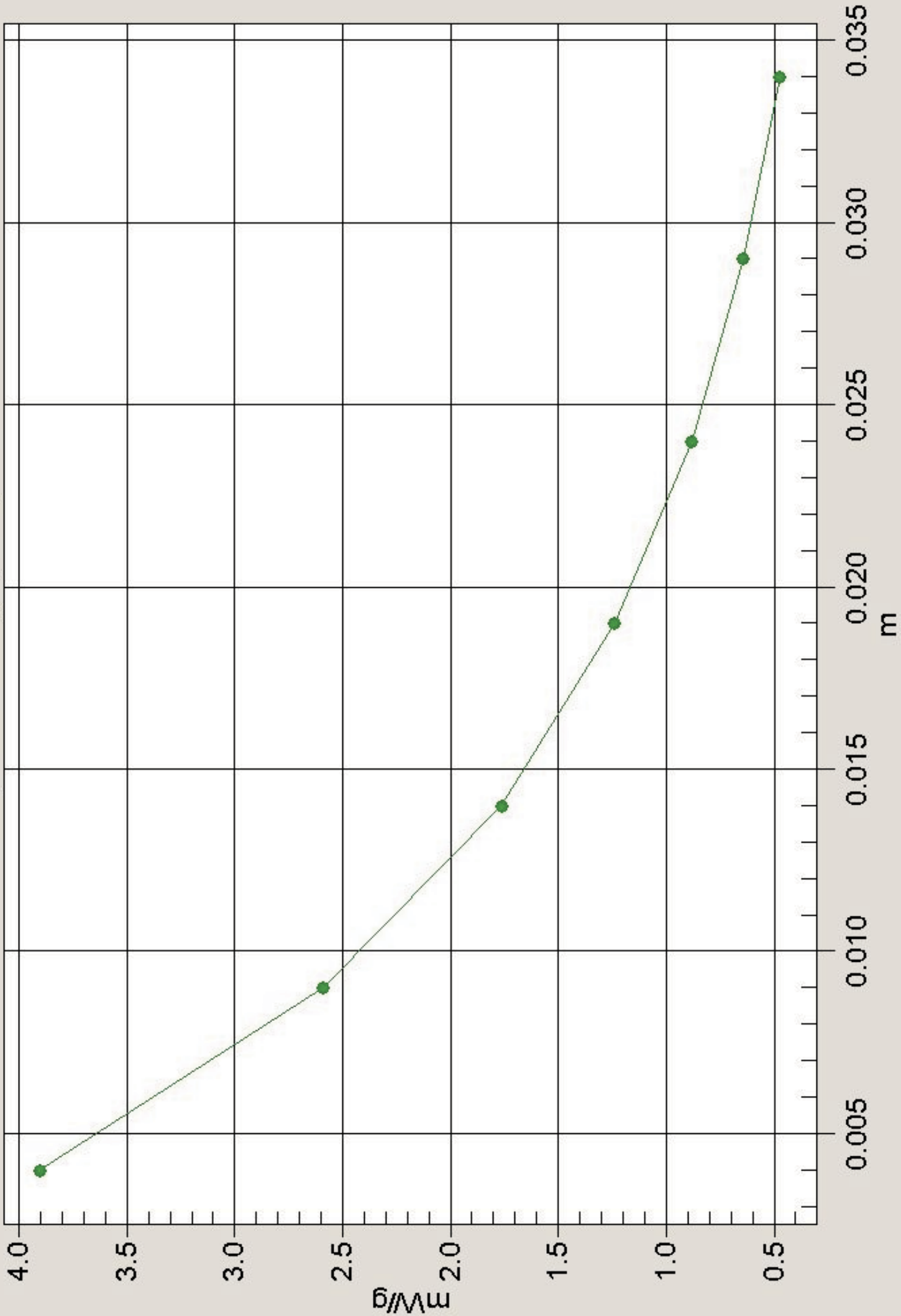
**Area Scan (71x151x1):** Measurement grid: dx=20mm, dy=20mm



Temperature Ambient = 21.4°C    Liquid = 20.4°C    Humidity = 44%

# Averaged SAR

SAR, Value Along Z, X=0, Y=0



Test Laboratory: EMC Technologies Pty Ltd

File Name: M030131 - Tait Electronics - 01-Mar-03.da4

**DUT: Tait Electronics 450MHz Type & Serial Number: Orca 510, S/N 14167041****Program: Belt-Clip Position; Channel 3 Test 4 With the Battery Supplemented by 7.5V DC Supply**

Communication System: CW 450 MHz; Frequency: 530 MHz; Duty Cycle: 1:1

Medium: FCC 450MHz Body ( $\sigma = 1$  mho/m,  $\epsilon = 54.63$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: FlatSection

DASY4 Configuration:

- Probe: ET3DV6 - SN1377; ConvF(7.2, 7.2, 7.2); Calibrated: 6-Sept-2002

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

- Electronics: DAE3 Sn442; Calibrated: 23-Oct-2002

- Phantom: Flat Phantom - TP: P 4.4

- Software: DASY4, V4.0 Build 51

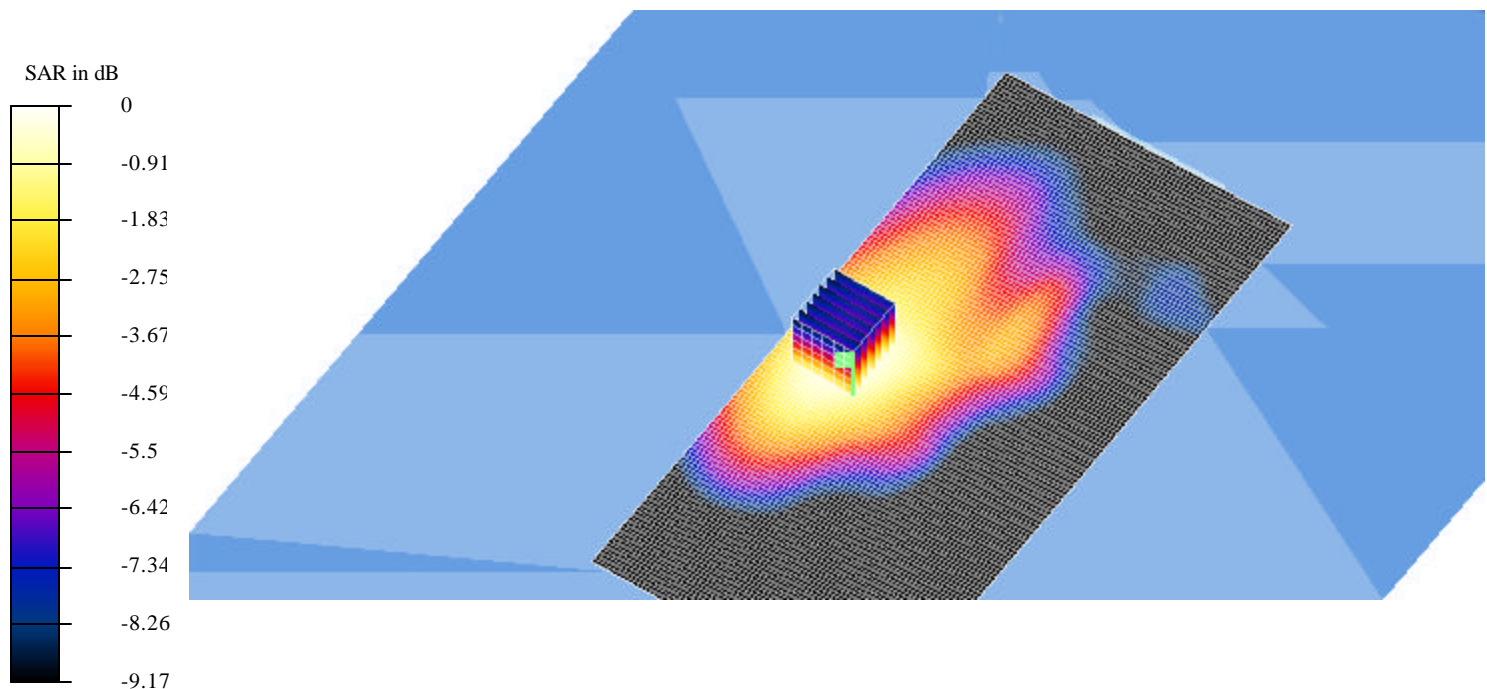
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm

Reference Value = 51 V/m

Peak SAR = 9.41 mW/g

SAR(1 g) = 6.49 mW/g; SAR(10 g) = 4.48 mW/g

Power Drift = -0.3 dB

**Area Scan (71x151x1):** Measurement grid: dx=20mm, dy=20mm

Temperature Ambient = 21.4°C

Liquid = 20.4°C

Humidity = 44%

# Averaged SAR

SAR, Value Along Z, X=0, Y=0

