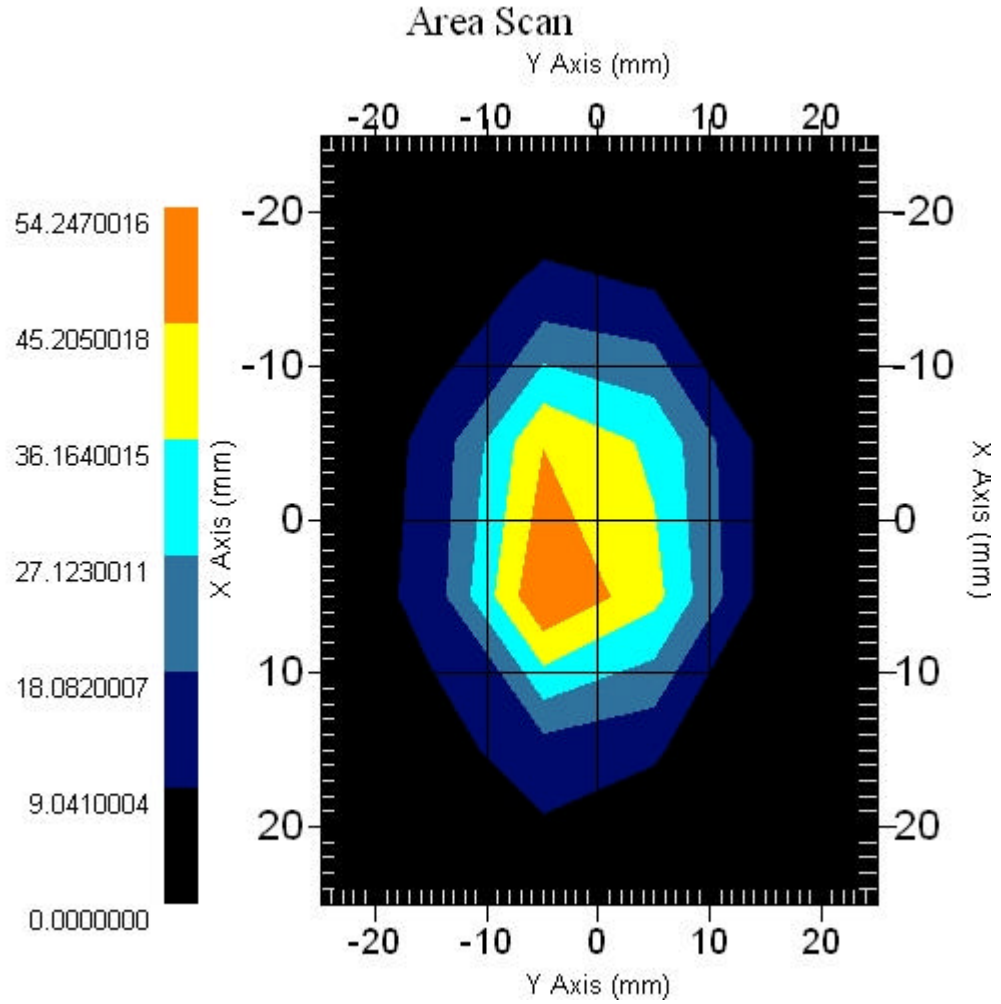
5800MHz System Validation Data

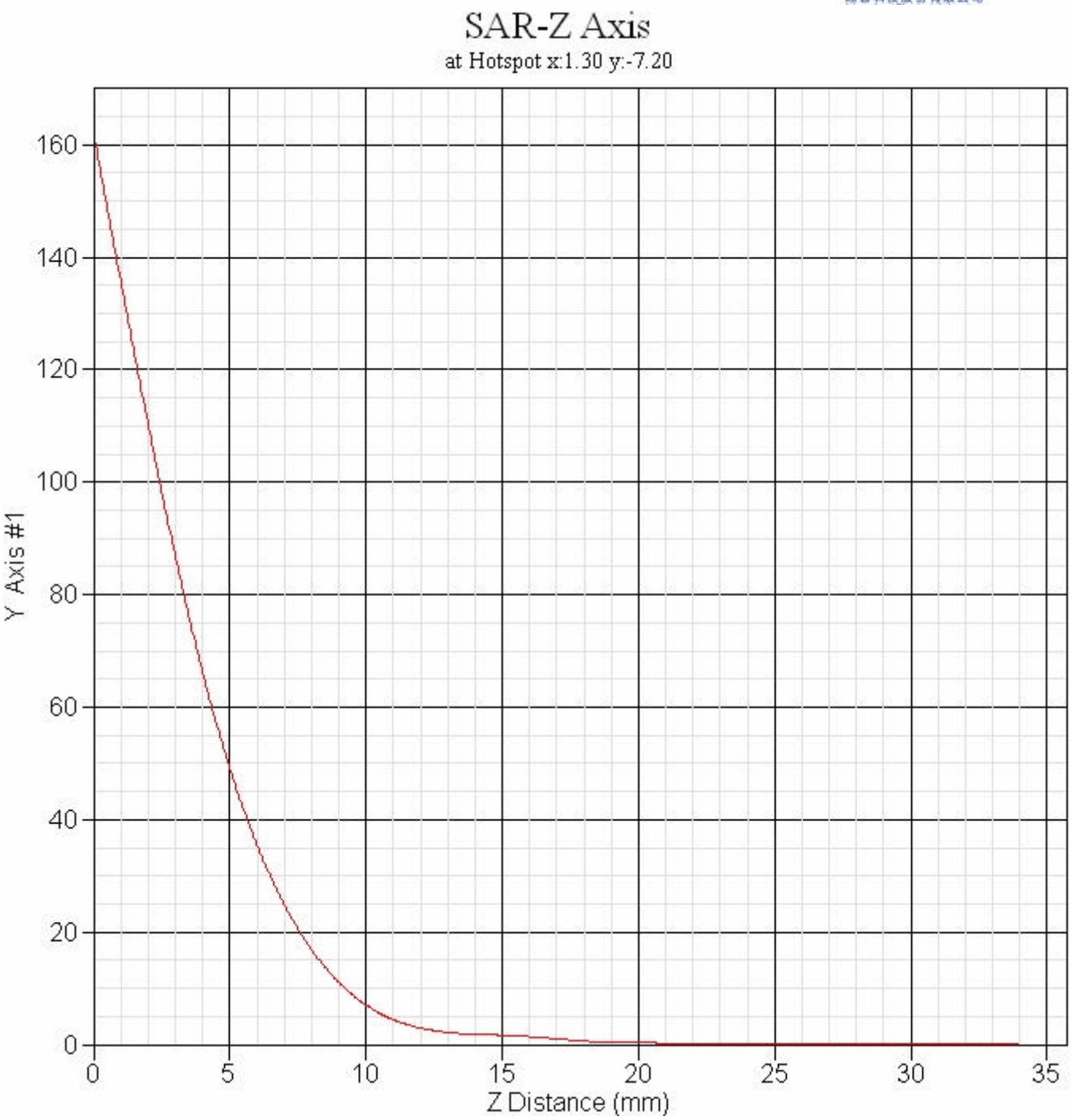
```
Measurement Date  : 16-Aug-2006
Product Data
Device Name       : Dipole-5800
Serial No.        : 240-00852
Type              : Dipole
Model             : ALS-D-5800-S-2
Frequency         : 5800.00 MHz
Max. Transmit Pwr : 1 W
Drift Time        : 0 min(s)
Length            : 21.4 mm
Width             : 3.6 mm
Depth             : 89.8 mm
Antenna Type      : Internal
Orientation       : Touch
Power Drift-Start : 69.439 W/kg
Power Drift-Finish: 71.801 W/kg
Power Drift (%)   : 3.401
Picture           :

Phantom Data
Name             : APREL-Uni
Type             : Uni-Phantom
Size (mm)        : 280 x 280 x 200
Serial No.       : System Default
Location         : Center
Description      : uni_1

Tissue Data
Type             : HEAD
Serial No.       : 5800-H-AU-19
Frequency        : 5800.00 MHz
Last Calib. Date : 16-Aug-2005
Temperature      : 22.40 °C
Ambient Temp.    : 22.90 °C
Humidity         : 44.00 RH%
Epsilon          : 36.42 F/m
Sigma            : 5.37 S/m
Density          : 1000.00 kg/cu. m

Probe Data
Name             : E-field Probe
Model            : ALS-E-020
Type             : E-Field Triangle
Serial No.       : 266
Last Calib. Date : 22-Jun-2006
Frequency        : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.72
Probe Sensitivity: 1.20  1.20  1.20   μV/(V/m)²
Compression Point: 95.00 mV
Offset           : 1.56 mm
```

Measurement Data
Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 22.40 °C
Ambient Temp. : 22.90 °C
Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

Other Data
DUT Position : Touch
Separation : 0
Channel : Mid - 5800MHz



1 gram SAR value : 61.540 W/kg
10 gram SAR value : 18.462 W/kg
Area Scan Peak SAR : 54.247 W/kg
Zoom Scan Peak SAR : 162.132 W/kg

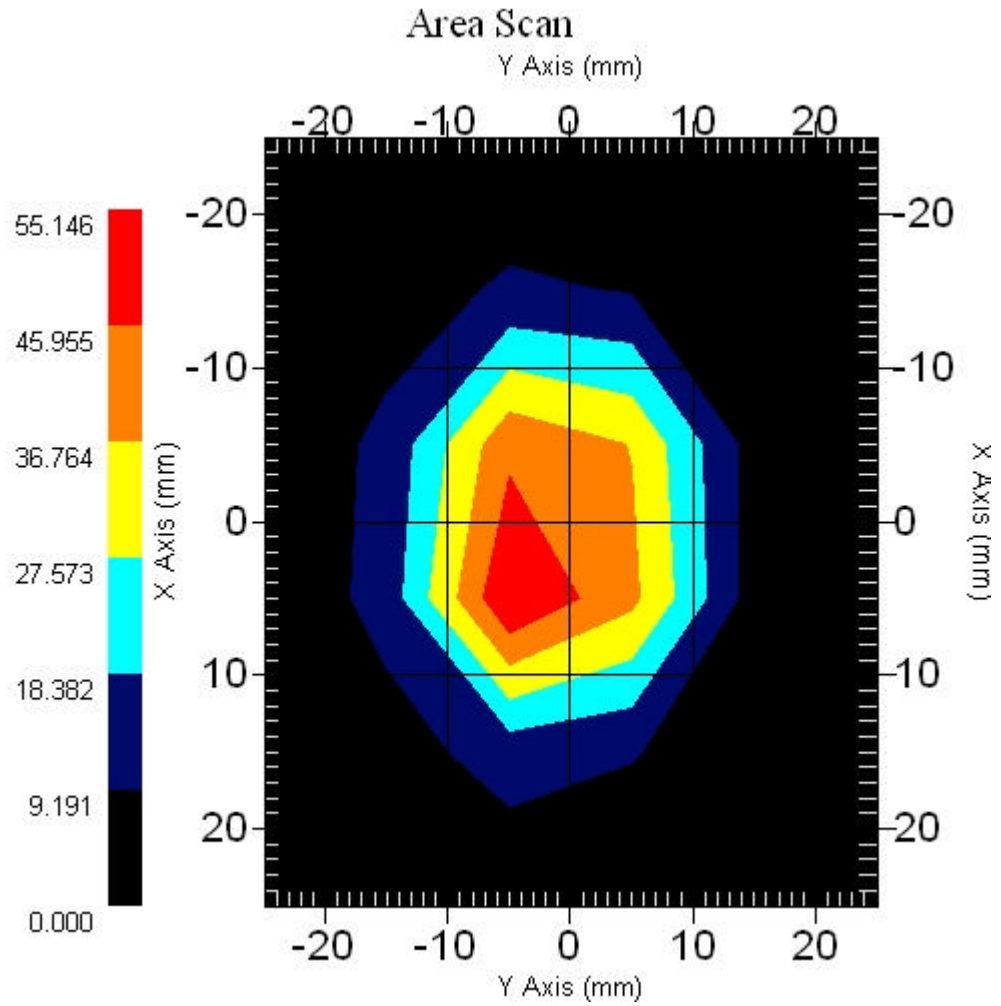

SAR-Z Axis
at Hotspot x:1.30 y:-7.20
Y Axis #1
160
140
120
100
80
60
40
20
0
0
5
10
15
20
25
30
35
Z Distance (mm)

5800MHz System Validation Data

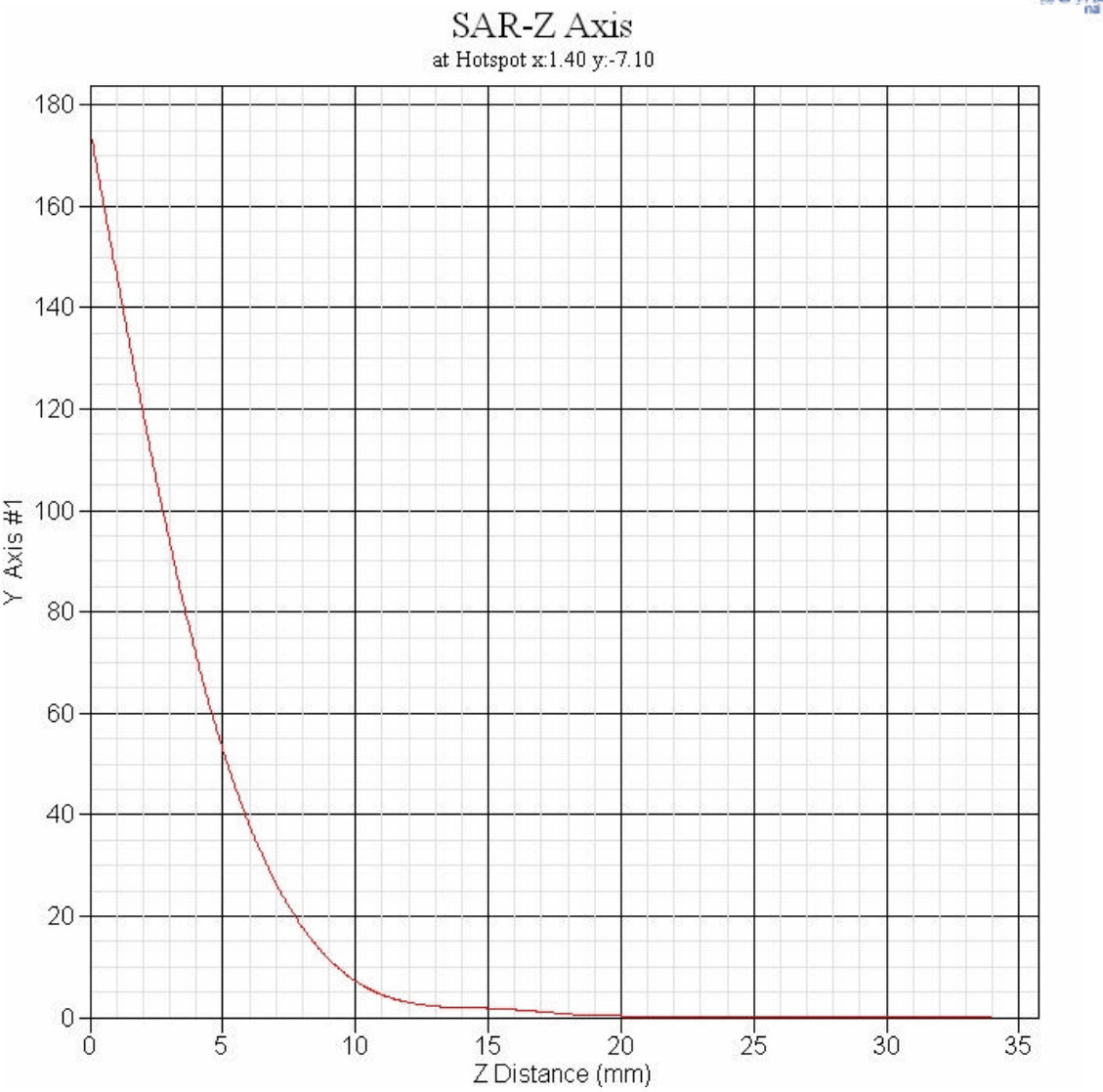
```
Measurement Date  : 18-Aug-2006
Product Data
Device Name       : Dipole-5800
Serial No.        : 240-00852
Type              : Dipole
Model             : ALS-D-5800-S-2
Frequency         : 5800.00 MHz
Max. Transmit Pwr : 1 W
Drift Time        : 0 min(s)
Length            : 21.4 mm
Width             : 3.6 mm
Depth             : 89.8 mm
Antenna Type      : Internal
Orientation       : Touch
Power Drift-Start : 70.899 W/kg
Power Drift-Finish: 70.901 W/kg
Power Drift (%)   : 0.003
Picture           :

Phantom Data
Name             : APREL-Uni
Type             : Uni-Phantom
Size (mm)        : 280 x 280 x 200
Serial No.       : System Default
Location         : Center
Description      : uni_1

Tissue Data
Type             : HEAD
Serial No.       : 5800-H-AU-19
Frequency        : 5800.00 MHz
Last Calib. Date : 18-Aug-2005
Temperature      : 22.30 °C
Ambient Temp.    : 22.70 °C
Humidity         : 48.00 RH%
Epsilon          : 36.25 F/m
Sigma            : 5.39 S/m
Density          : 1000.00 kg/cu. m

Probe Data
Name             : E-field Probe
Model            : ALS-E-020
Type             : E-Field Triangle
Serial No.       : 266
Last Calib. Date : 22-Jun-2006
Frequency        : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.72
Probe Sensitivity: 1.20  1.20  1.20   μV/(V/m)²
Compression Point: 95.00 mV
Offset           : 1.56 mm
```

Measurement Data
Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 22.30 °C
Ambient Temp. : 22.70 °C
Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

Other Data
DUT Position : Touch
Separation : 0
Channel : Mid - 5800MHz



1 gram SAR value : 63.893 W/kg
10 gram SAR value : 19.156 W/kg
Area Scan Peak SAR : 55.146 W/kg
Zoom Scan Peak SAR : 175.143 W/kg

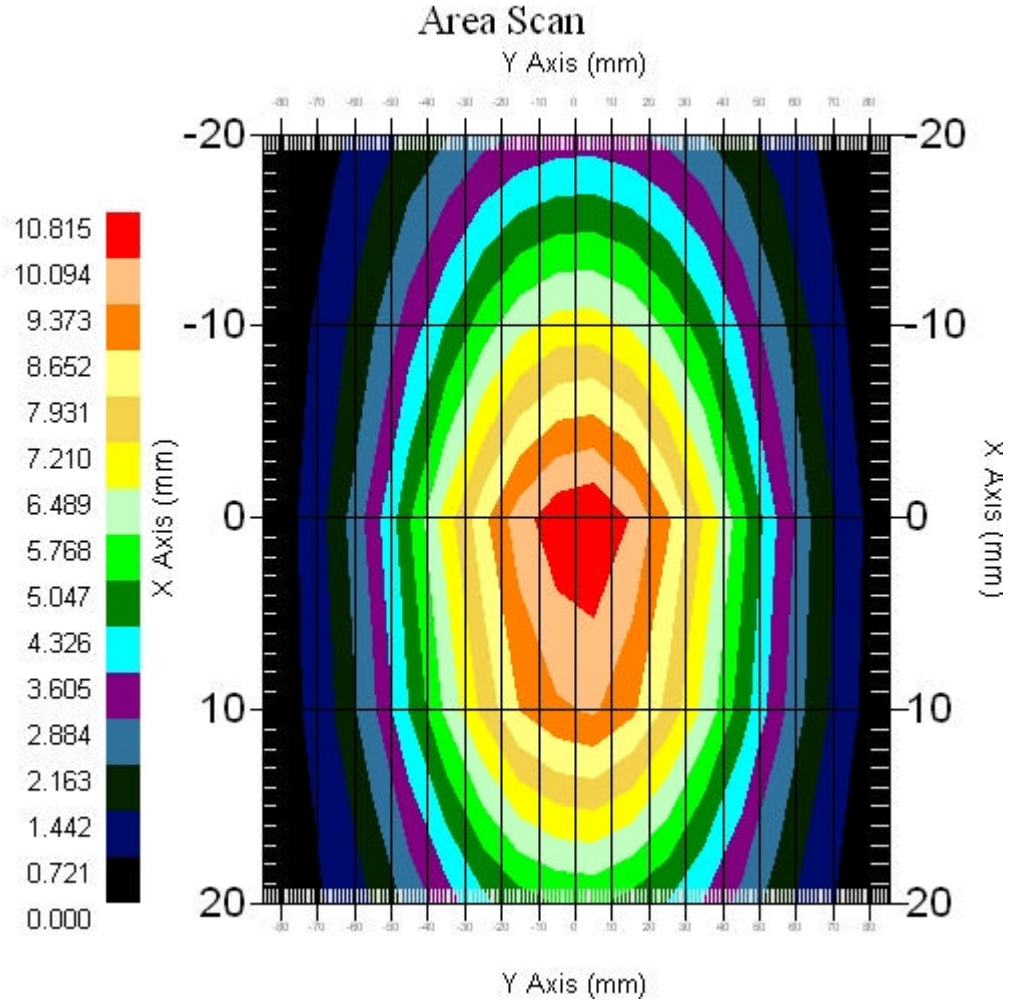

SAR-Z Axis
at Hotspot x:1.40 y:-7.10
Y Axis #1
Z Distance (mm)
0
20
40
60
80
100
120
140
160
180
0
5
10
15
20
25
30
35

10.4 *835MHz System Validation Data*

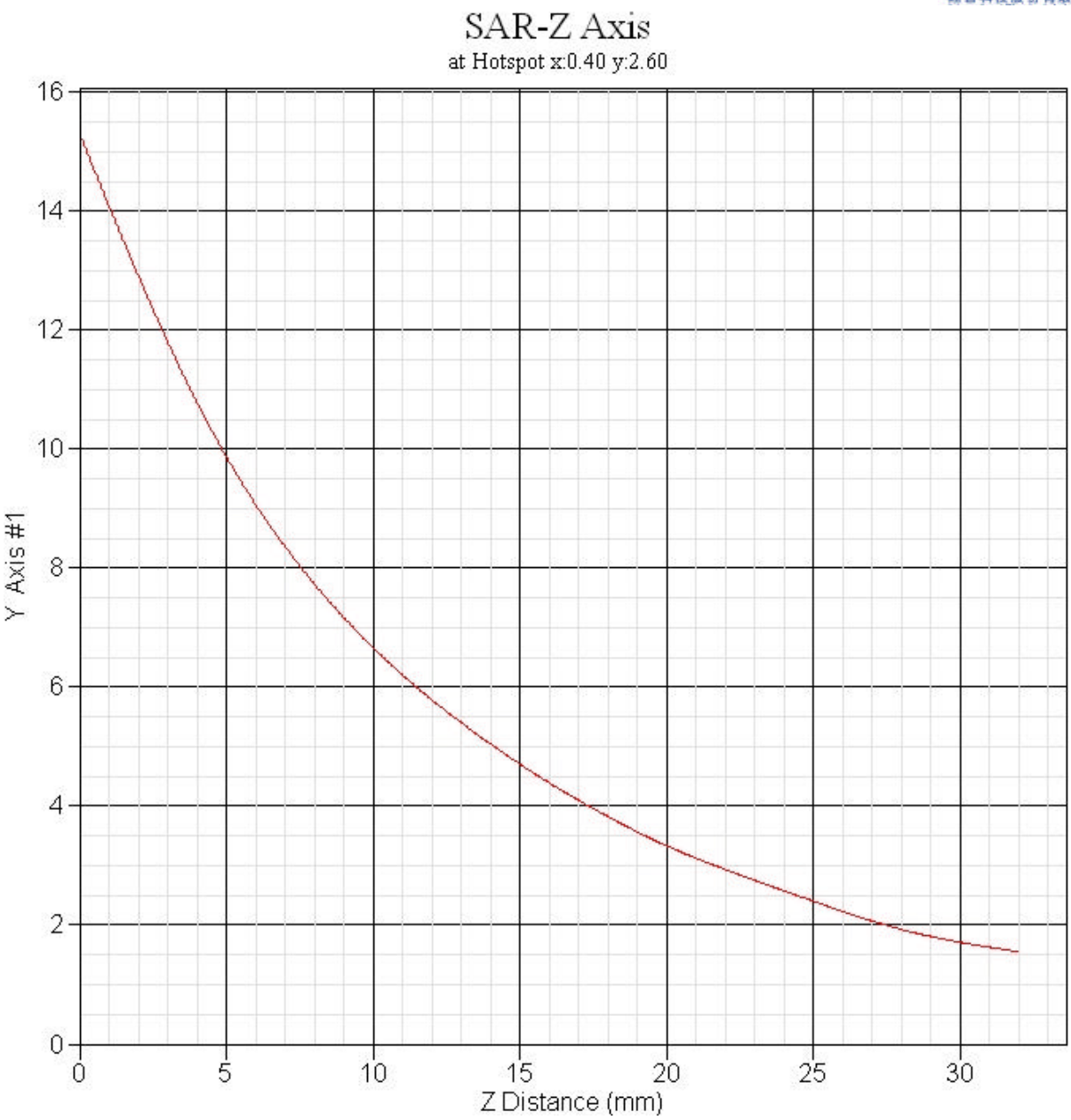
```
Measurement Date  : 16-Aug-2006

Product Data
Device Name       : Dipole-835
Serial No.        : Validation
Type              : Dipole
Model             : Standard
Frequency         : 835.00 MHz
Max. Transmit Pwr : 1 W
Drift Time        : 0 min(s)
Length            : 161 mm
Width             : 3.6 mm
Depth             : 89.8 mm
Antenna Type      : Internal
Orientation       : Touch
Power Drift-Start : 10.628 W/kg
Power Drift-Finish: 10.719 W/kg
Power Drift (%)   : 0.856
Picture           :

Phantom Data
Name            : APREL-Uni
Type            : Uni-Phantom
Size (mm)       : 280 x 280 x 200
Serial No.      : System Default
Location        : Center
Description     : uni_1

Tissue Data
Type            : HEAD
Serial No.      : 835HEAD
Frequency       : 835.00 MHz
Last Calib. Date : 16-Aug-2006
Temperature     : 21.20 °C
Ambient Temp.   : 21.50 °C
Humidity        : 51.00 RH%
Epsilon         : 40.65 F/m
Sigma           : 0.92 S/m
Density         : 1000.00 kg/cu. m

Probe Data
Name            : E-field Probe
Model           : ALS-E-020
Type            : E-Field Triangle
Serial No.      : 266
Last Calib. Date : 22-Jun-2006
Frequency       : 835.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 6.9
Probe Sensitivity: 1.20  1.20  1.20   μV/(V/m)²
Compression Point: 95.00 mV
Offset          : 1.56 mm
```

Measurement Data
Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21.20 °C
Ambient Temp. : 21.50 °C
Area Scan : 5x18x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position : Touch
Separation : 0
Channel : Mid - 835



1 gram SAR value : 10.066 W/kg
10 gram SAR value : 6.444 W/kg
Area Scan Peak SAR : 10.808 W/kg
Zoom Scan Peak SAR : 15.314 W/kg

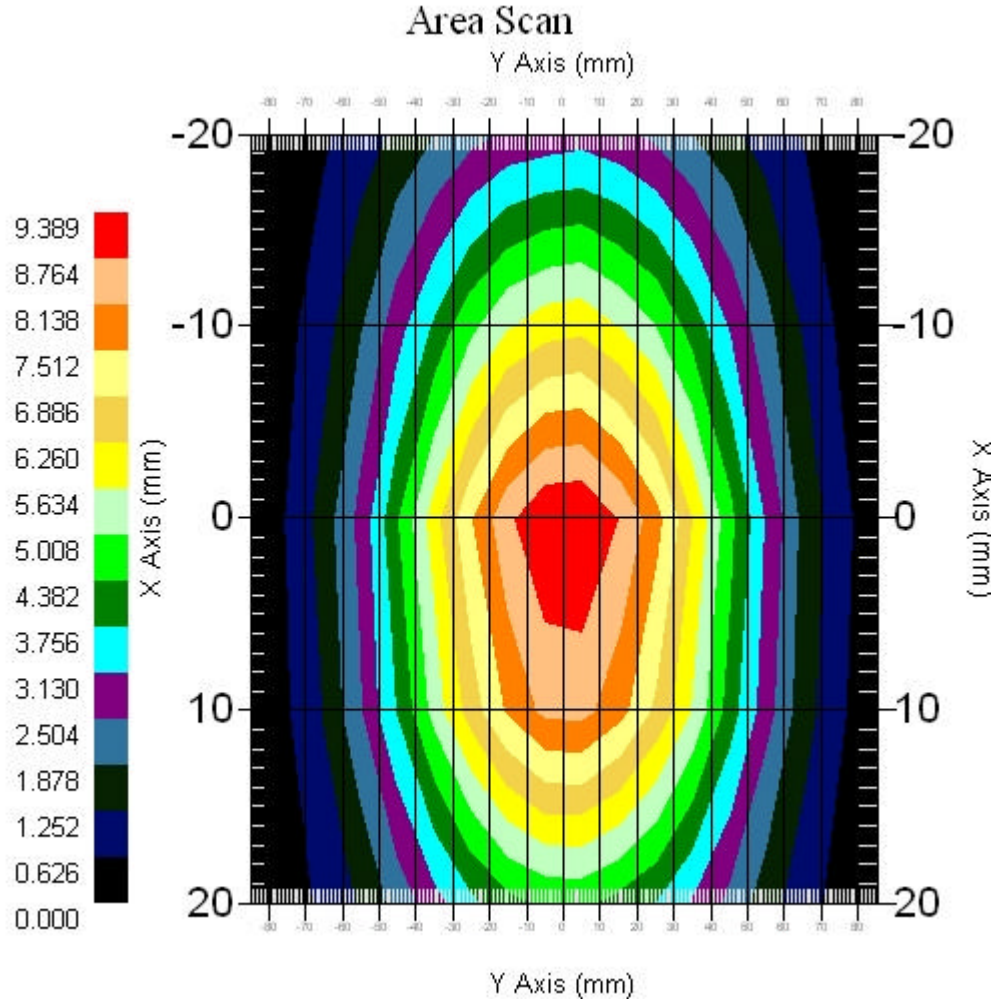

SAR-Z Axis
at Hotspot x:0.40 y:2.60
Y Axis #1
Z Distance (mm)
0
2
4
6
8
10
12
14
16
0
5
10
15
20
25
30

835MHz System Validation Data

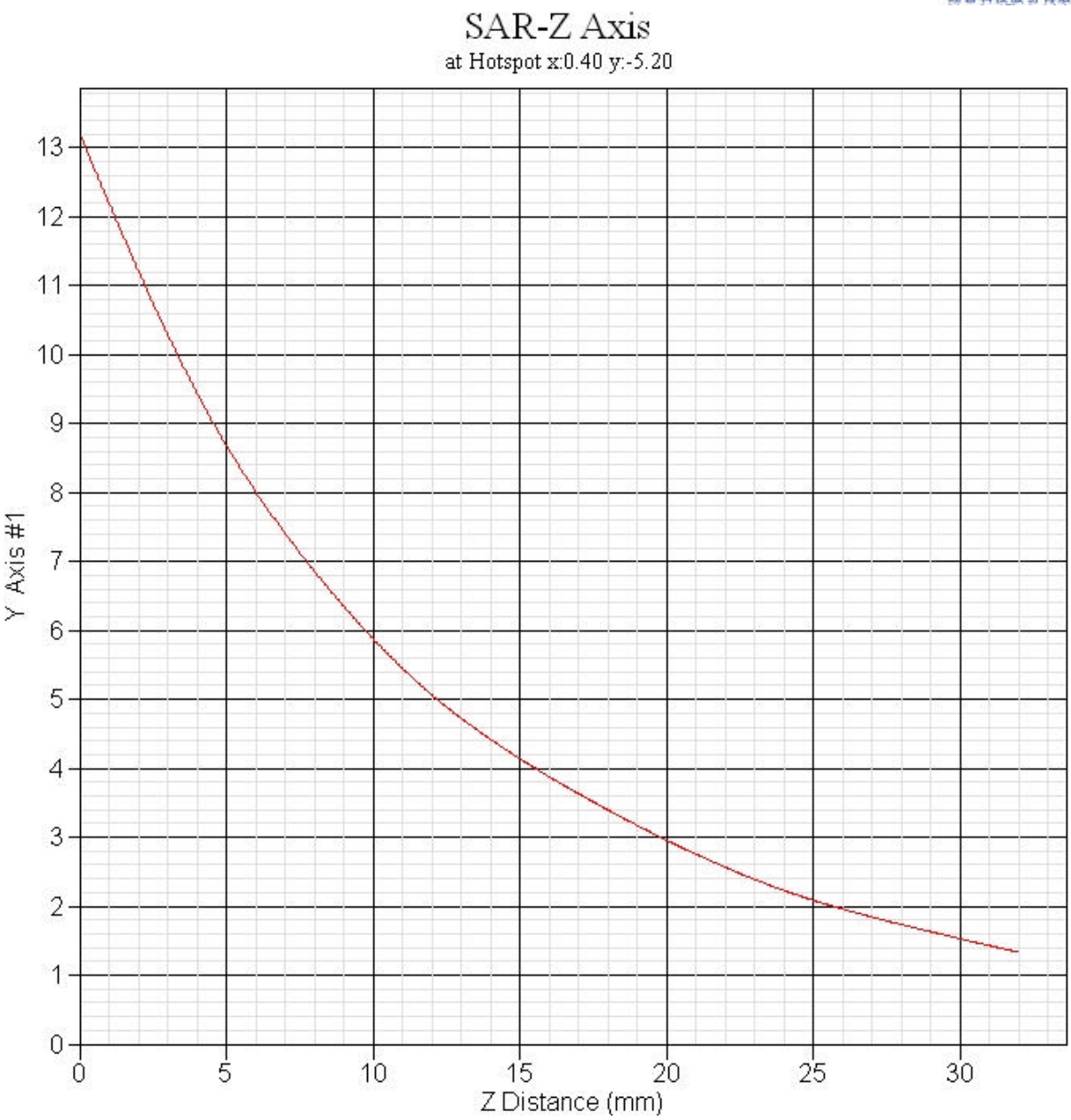
```
Measurement Date  : 21-Aug-2006
Product Data
Device Name       : Dipole-835
Serial No.        : Validation
Type              : Dipole
Model             : Standard
Frequency         : 835.00 MHz
Max. Transmit Pwr : 1 W
Drift Time        : 0 min(s)
Length            : 161 mm
Width             : 3.6 mm
Depth             : 89.8 mm
Antenna Type      : Internal
Orientation       : Touch
Power Drift-Start : 9.379 W/kg
Power Drift-Finish: 9.513 W/kg
Power Drift (%)   : 1.424
Picture           :

Phantom Data
Name            : APREL-Uni
Type            : Uni-Phantom
Size (mm)       : 280 x 280 x 200
Serial No.      : System Default
Location        : Center
Description     : uni_1

Tissue Data
Type            : HEAD
Serial No.      : 835HEAD
Frequency       : 835.00 MHz
Last Calib. Date : 21-Aug-2006
Temperature     : 21.40 °C
Ambient Temp.   : 21.90 °C
Humidity        : 51.00 RH%
Epsilon         : 40.83 F/m
Sigma           : 0.91 S/m
Density         : 1000.00 kg/cu. m

Probe Data
Name            : E-field Probe
Model           : ALS-E-020
Type            : E-Field Triangle
Serial No.      : 266
Last Calib. Date : 22-Jun-2006
Frequency       : 835.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 6.9
Probe Sensitivity: 1.20  1.20  1.20   μV/(V/m)²
Compression Point: 95.00 mV
Offset          : 1.56 mm
```

Measurement Data
Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21.40 °C
Ambient Temp. : 21.90 °C
Area Scan : 5x18x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position : Touch
Separation : 0
Channel : Mid - 835MHz



1 gram SAR value : 8.808 W/kg
10 gram SAR value : 5.677 W/kg
Area Scan Peak SAR : 9.389 W/kg
Zoom Scan Peak SAR : 13.212 W/kg


SAR-Z Axis
at Hotspot x:0.40 y:-5.20
Y Axis #1
Z Distance (mm)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
0
5
10
15
20
25
30

11. 802.11b SAR measurement Data

SAR Test Report

```
Measurement Date  : 01-Aug-2006

Product Data
Device Name       : Golan
Serial No.        : 11.b-Botton-GSM800
Type              : Other
Model             : 1
Frequency         : 2437.00 MHz
Max. Transmit Pwr : 0.103 W
Drift Time        : 0 min(s)
Length            : 230 mm
Width             : 270 mm
Depth             : 22 mm
Antenna Type      : Internal
Orientation       : Touch

Phantom Data
Name            : APREL-Uni
Type            : Uni-Phantom
Size (mm)       : 280 x 280 x 200
Serial No.      : System Default
Location        : Center
Description     : uni_1

Tissue Data
Type            : BODY
Serial No.      : 2450BODY
Frequency       : 2450.00 MHz
Last Calib. Date : 01-Aug-2006
Temperature     : 22.10 °C
Ambient Temp.   : 22.40 °C
Humidity        : 51.00 RH%
Epsilon         : 53.95 F/m
Sigma           : 1.99 S/m
Density         : 1000.00 kg/cu. m

Probe Data
Name            : E-field Probe
Model           : ALS-E-020
Type            : E-Field Triangle
Serial No.      : 266
Last Calib. Date : 22-Jun-2006
Frequency       : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 5.02
Probe Sensitivity: 1.20  1.20  1.20   µV/(V/m)2
Compression Point: 95.00 mV
Offset          : 1.56 mm
```

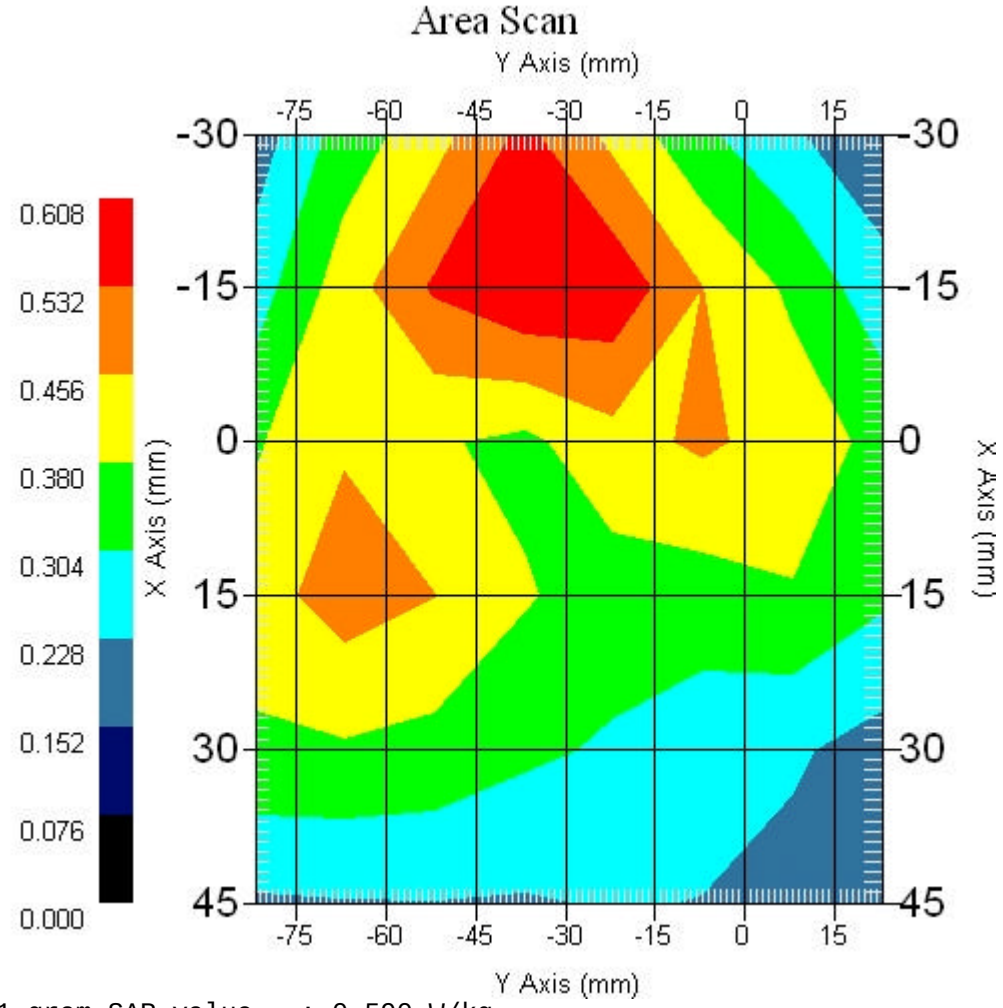
11.1. 802.11b + Karafuto (GSM, EGSM, UMTS) : FCCID N7NMC8765 +Bluetooth

- 2437 MHz, EUT Position: Laptop 836 GSM

Measurement Data
Crest Factor : 1
Scan Type : Complete
Area Scan : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position : Touch
Separation : 0
Channel : Mid - 2437MHz

Power Drift-Start : 0.458 W/kg
Power Drift-Finish: 0.439 W/kg
Power Drift (%) : -4.124

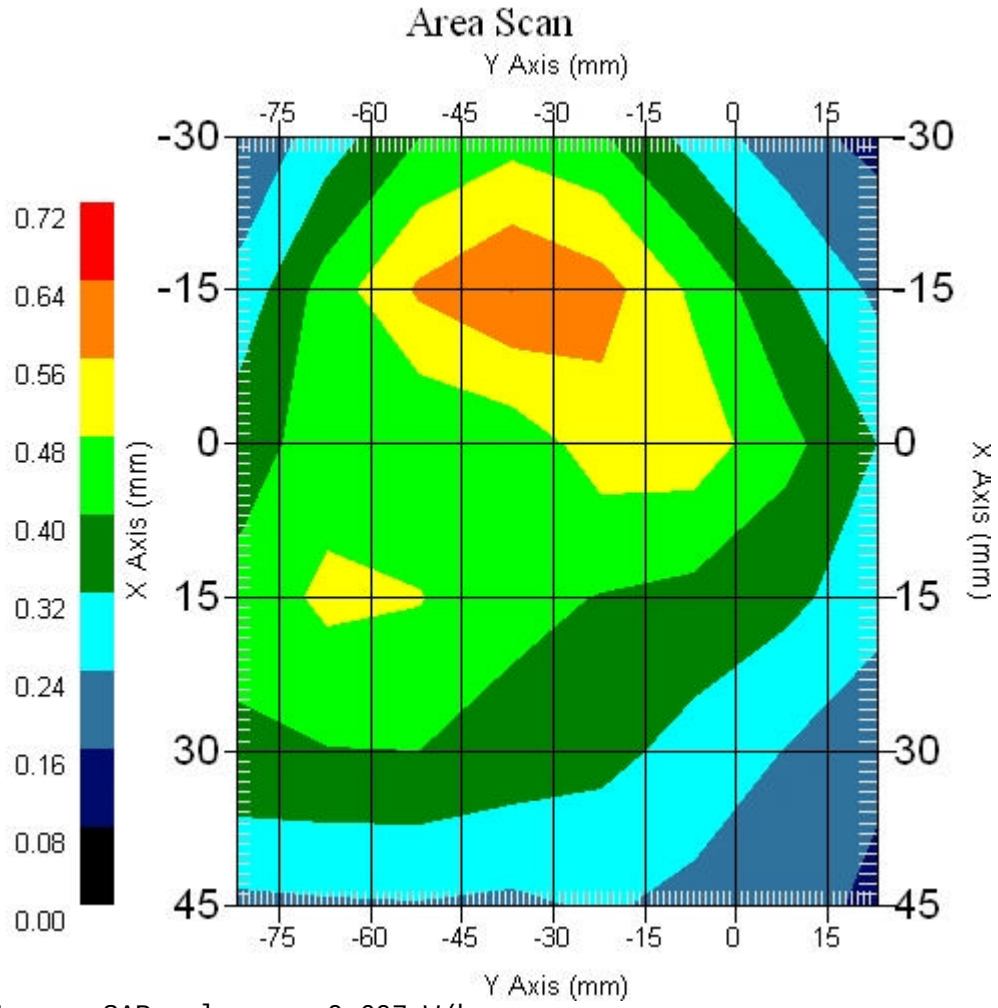


1 gram SAR value : 0.590 W/kg
10 gram SAR value : 0.457 W/kg
Area Scan Peak SAR : 0.606 W/kg
Zoom Scan Peak SAR : 0.720 W/kg

■ 2437 MHz, EUT Position: Laptop 836 GSM

Measurement Data

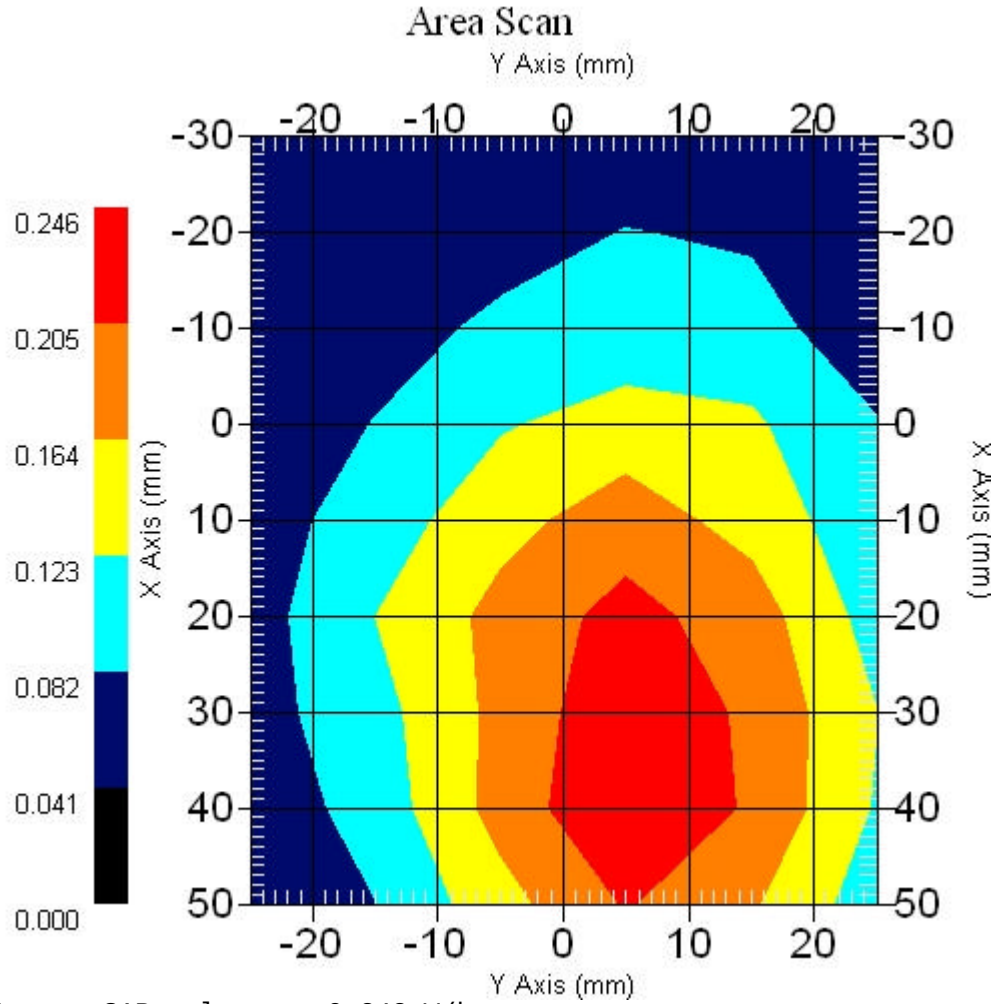
```
Crest Factor     : 1
Scan Type        : Complete
Area Scan        : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
Zoom Scan        : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position     : Touch
Separation       : 0
Channel          : Mid - 2437MHz

Power Drift-Start : 0.459 W/kg
Power Drift-Finish: 0.457 W/kg
Power Drift (%)   : -0.426
Picture           :
```




```
1 gram SAR value   : 0.607 W/kg
10 gram SAR value  : 0.459 W/kg
Area Scan Peak SAR : 0.641 W/kg
Zoom Scan Peak SAR : 0.800 W/kg
```

■ 2437 MHz, EUT Position: Tablet,PL 836 GSM

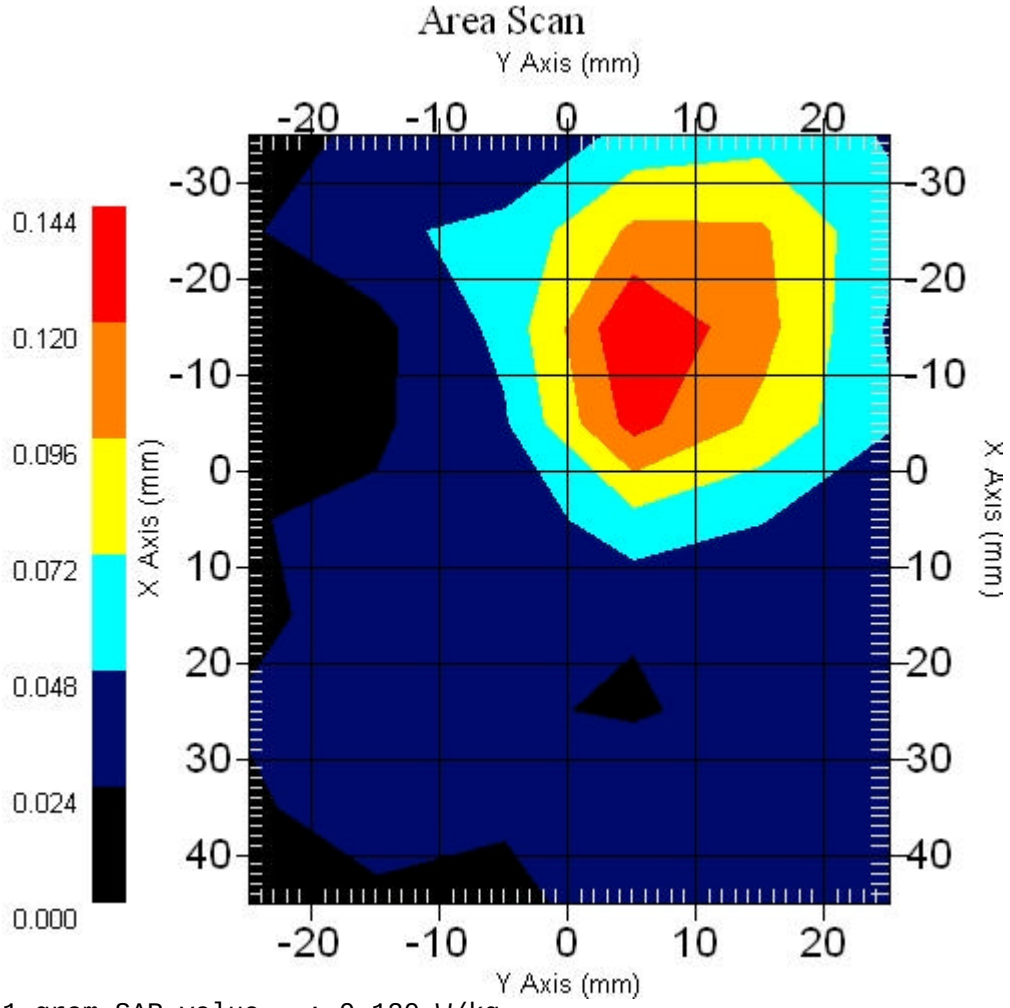
```
Measurement Data
Crest Factor     : 1
Scan Type        : Complete
Area Scan        : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan        : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position     : Touch
Separation       : 0
Channel          : Mid - 2437MHz

Power Drift-Start : 0.147 W/kg
Power Drift-Finish: 0.147 W/kg
Power Drift (%)   : 0.113
Picture           :
```




```
1 gram SAR value   : 0.242 W/kg
10 gram SAR value  : 0.177 W/kg
Area Scan Peak SAR : 0.246 W/kg
Zoom Scan Peak SAR : 0.360 W/kg
```

■ **2437 MHz, EUT Position: Tablet,PP 836 GSM**

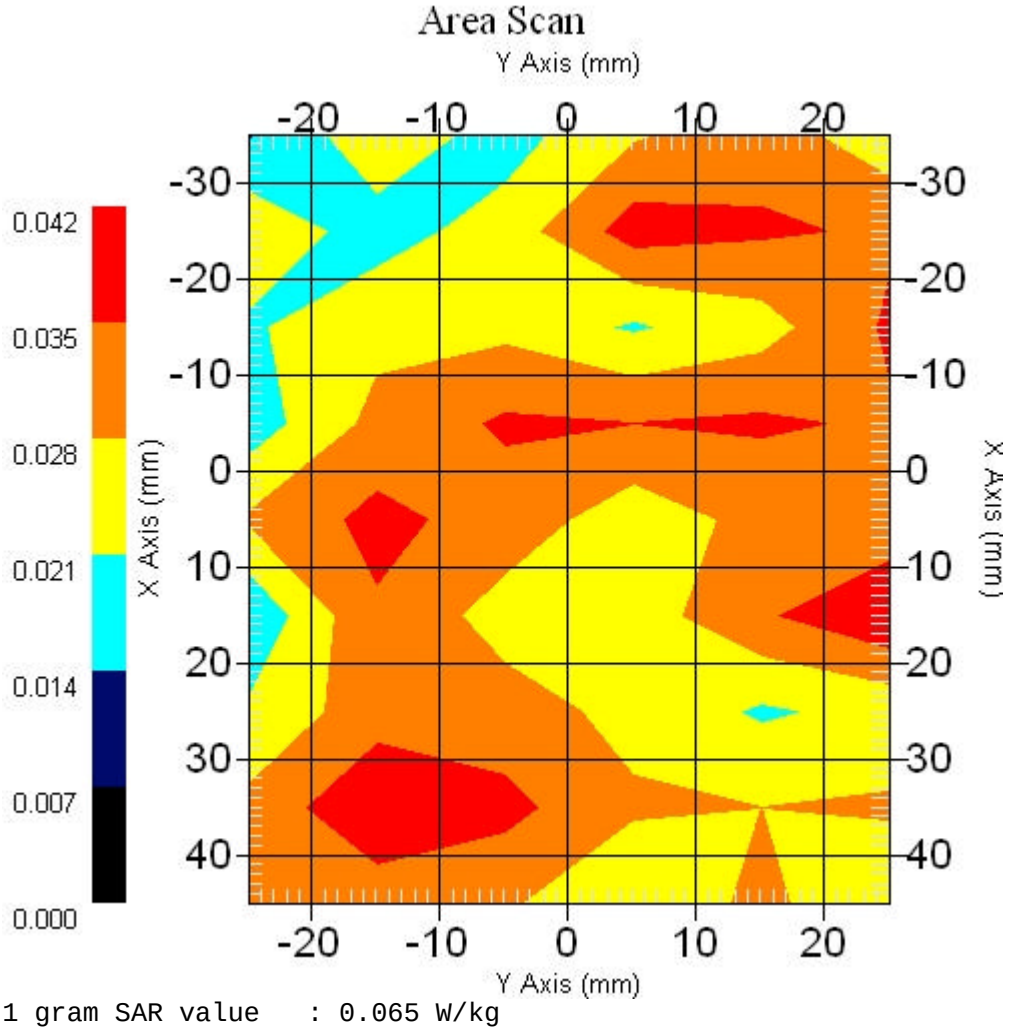
```
Measurement Data
Crest Factor     : 1
Scan Type        : Complete
Area Scan        : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan        : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position     : Touch
Separation       : 0
Channel          : Mid - 2437MHz

Power Drift-Start : 0.063 W/kg
Power Drift-Finish: 0.066 W/kg
Power Drift (%)   : 4.761
Picture           :
```




```
1 gram SAR value   : 0.120 W/kg
10 gram SAR value  : 0.064 W/kg
Area Scan Peak SAR : 0.142 W/kg
Zoom Scan Peak SAR : 0.230 W/kg
```

■ 2437 MHz, EUT Position: Tablet,SL 836 GSM

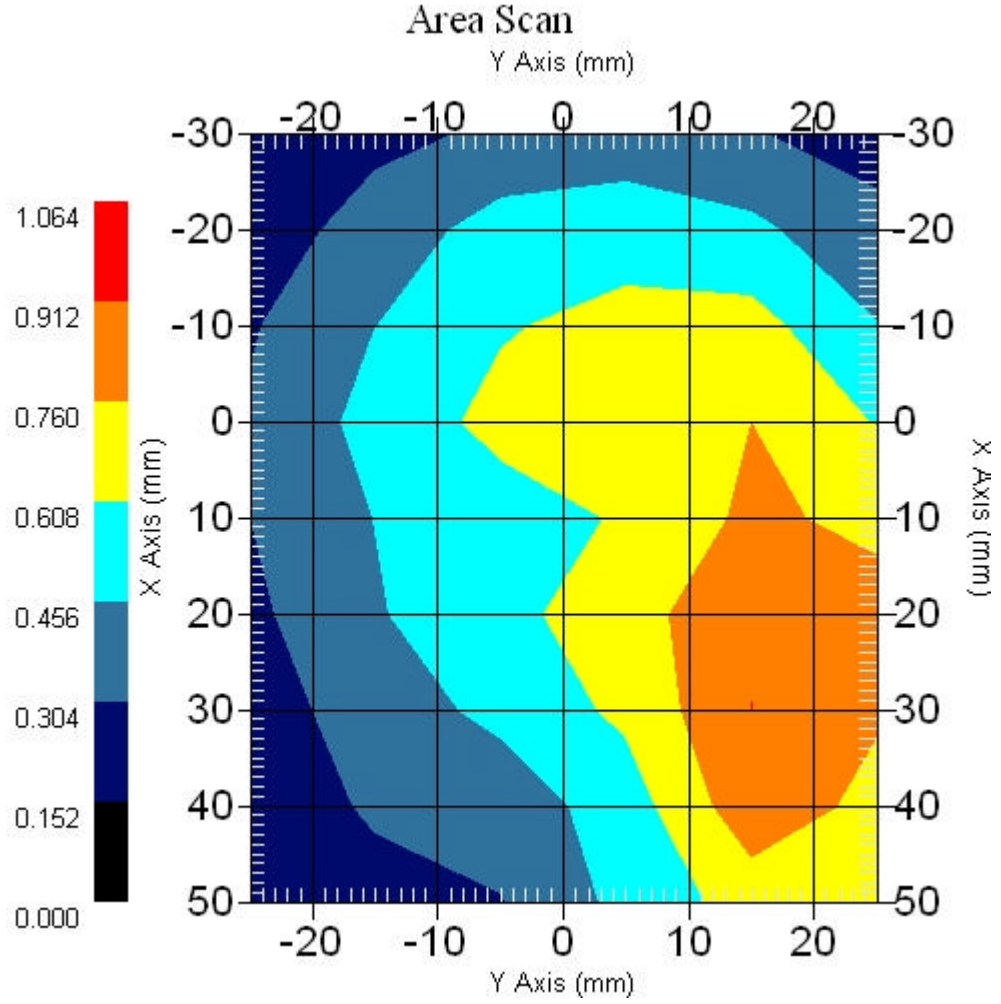
```
Measurement Data
Crest Factor     : 1
Scan Type        : Complete
Area Scan        : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan        : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position     : Touch
Separation       : 0
Channel          : Mid - 2437MHz

Power Drift-Start : 0.025 W/kg
Power Drift-Finish: 0.026 W/kg
Power Drift (%)   : 4.184
Picture           :
```




```
1 gram SAR value   : 0.065 W/kg
10 gram SAR value  : 0.047 W/kg
Area Scan Peak SAR : 0.041 W/kg
Zoom Scan Peak SAR : 0.100 W/kg
```

■ **2437 MHz, EUT Position: Tablet,SP 836 GSM**

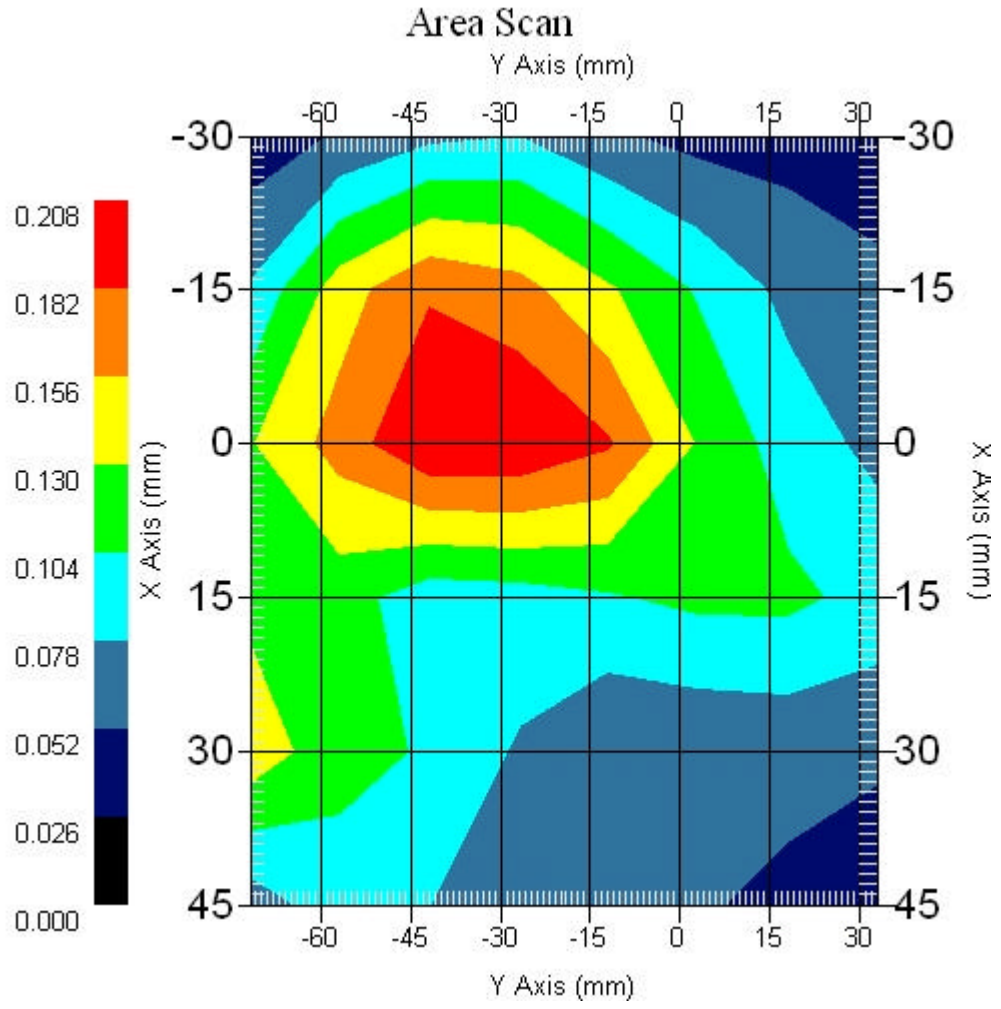
```
Measurement Data
Crest Factor     : 1
Scan Type        : Complete
Area Scan        : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan        : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position     : Touch
Separation       : 0
Channel          : Mid - 2437MHz

Power Drift-Start : 0.684 W/kg
Power Drift-Finish: 0.712 W/kg
Power Drift (%)   : 4.138
Picture           :
```




```
1 gram SAR value   : 0.765 W/kg
10 gram SAR value  : 0.577 W/kg
Area Scan Peak SAR : 0.913 W/kg
Zoom Scan Peak SAR : 1.000 W/kg
```

■ **2437 MHz, EUT Position: Laptop 836 EGSM**

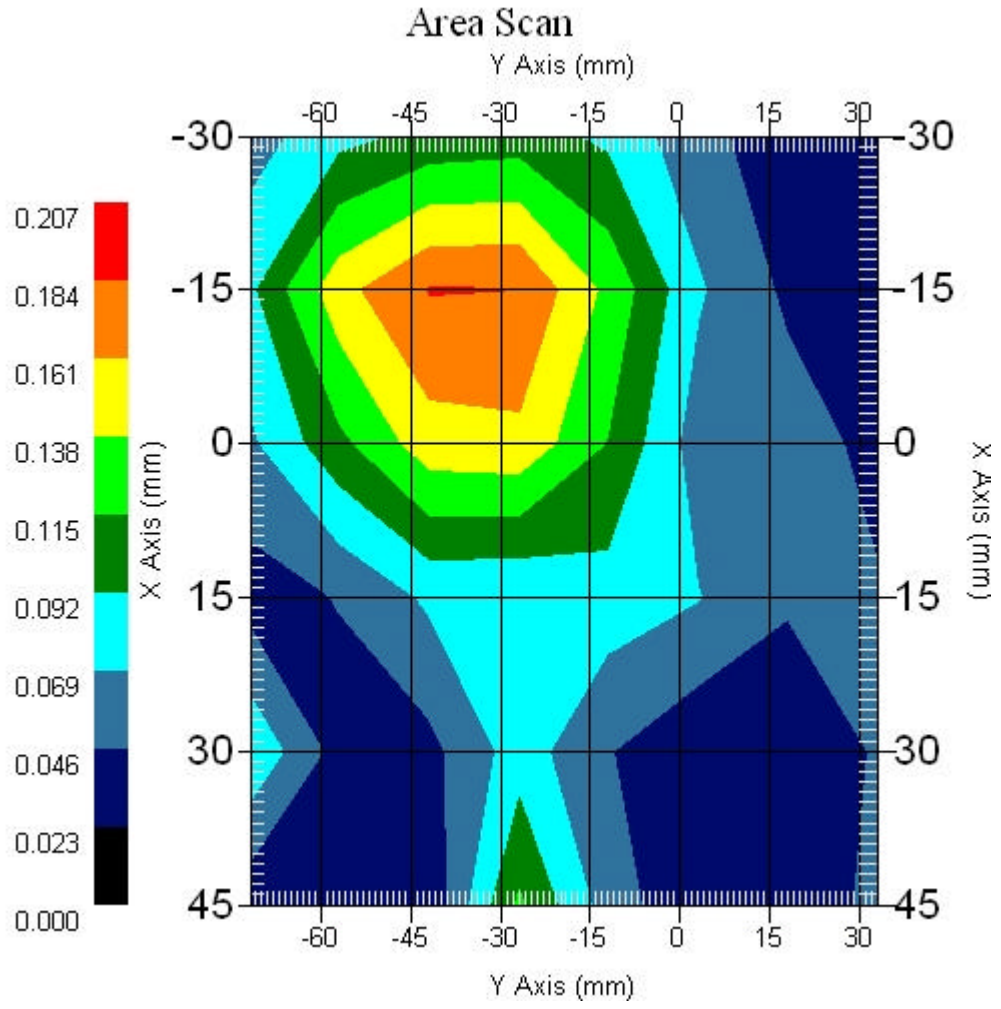
```
Measurement Data
Crest Factor     : 1
Scan Type        : Complete
Area Scan        : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
Zoom Scan        : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position     : Touch
Separation       : 0
Channel          : Mid - 2437MHz

Power Drift-Start : 0.134 W/kg
Power Drift-Finish: 0.140 W/kg
Power Drift (%)   : 4.477
Picture           :
```




```
1 gram SAR value   : 0.201 W/kg
10 gram SAR value  : 0.142 W/kg
Area Scan Peak SAR : 0.206 W/kg
Zoom Scan Peak SAR : 0.250 W/kg
```

■ 2437 MHz, EUT Position: Laptop 836 EGSM

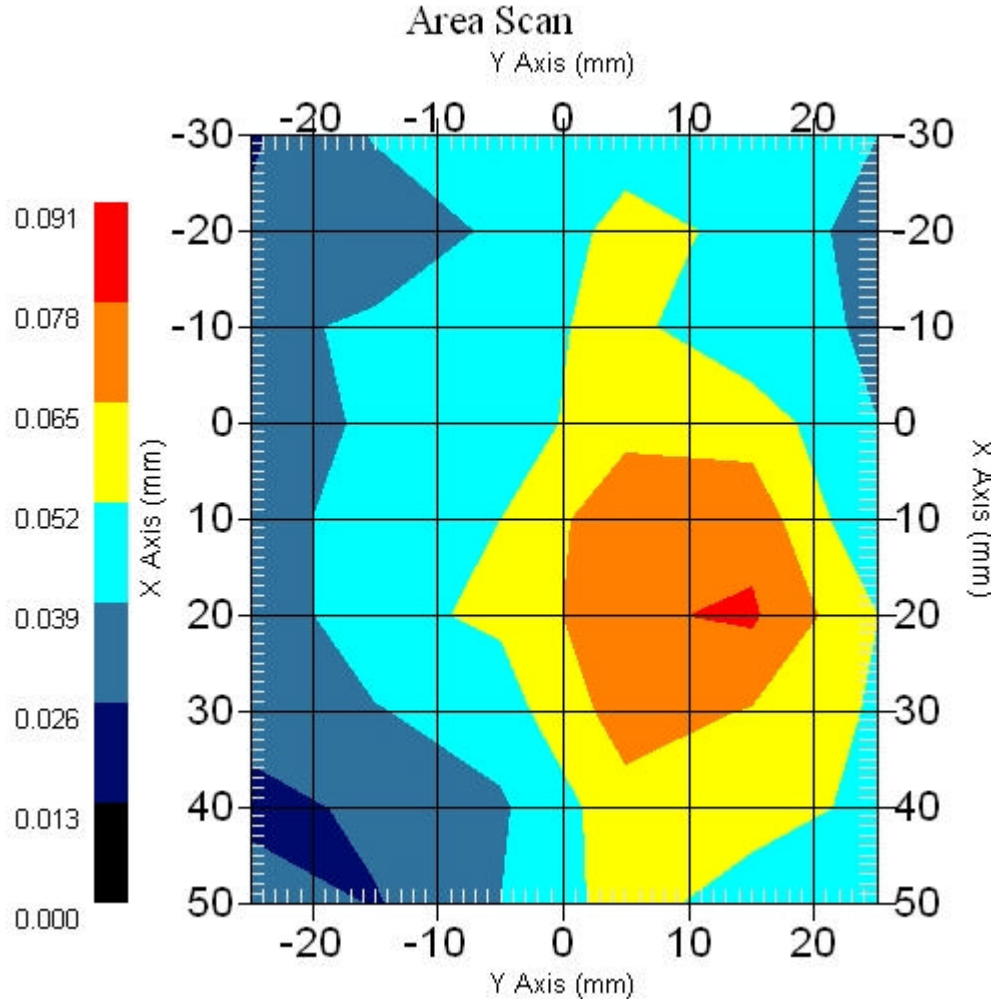
```
Measurement Data
Crest Factor     : 1
Scan Type        : Complete
Area Scan        : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
Zoom Scan        : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position     : Touch
Separation       : 0
Channel          : Mid - 2437MHz

Power Drift-Start : 0.077 W/kg
Power Drift-Finish: 0.077 W/kg
Power Drift (%)   : -0.112
Picture           :
```




```
1 gram SAR value   : 0.193 W/kg
10 gram SAR value  : 0.119 W/kg
Area Scan Peak SAR : 0.185 W/kg
Zoom Scan Peak SAR : 0.330 W/kg
```

■ 2437 MHz, EUT Position: Tablet PL 836 EGSM

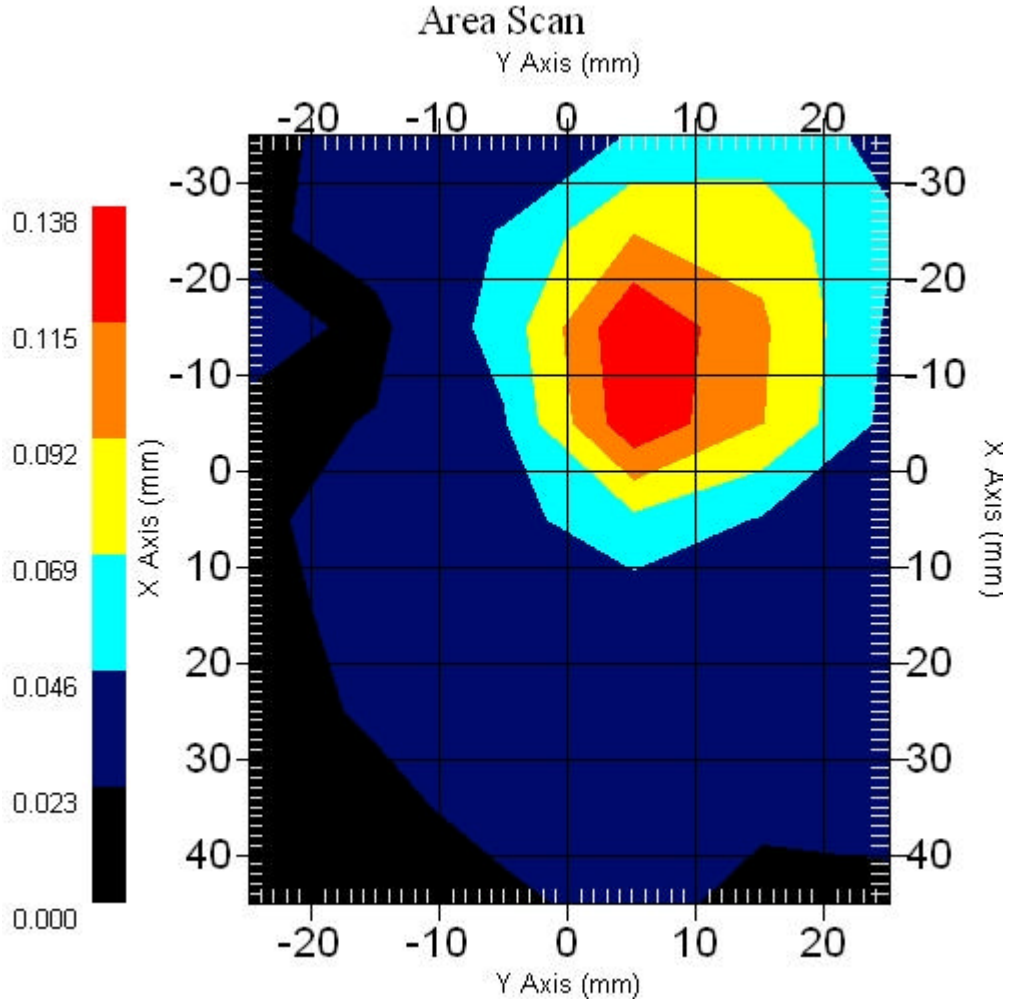
```
Measurement Data
Crest Factor     : 1
Scan Type        : Complete
Area Scan        : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan        : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position     : Touch
Separation       : 0
Channel          : Mid - 2437MHz

Power Drift-Start : 0.062 W/kg
Power Drift-Finish: 0.066 W/kg
Power Drift (%)   : 4.838
Picture           :
```




```
1 gram SAR value   : 0.089 W/kg
10 gram SAR value  : 0.061 W/kg
Area Scan Peak SAR : 0.080 W/kg
Zoom Scan Peak SAR : 0.160 W/kg
```

■ 2437 MHz, EUT Position: Tablet PP 836 EGSM

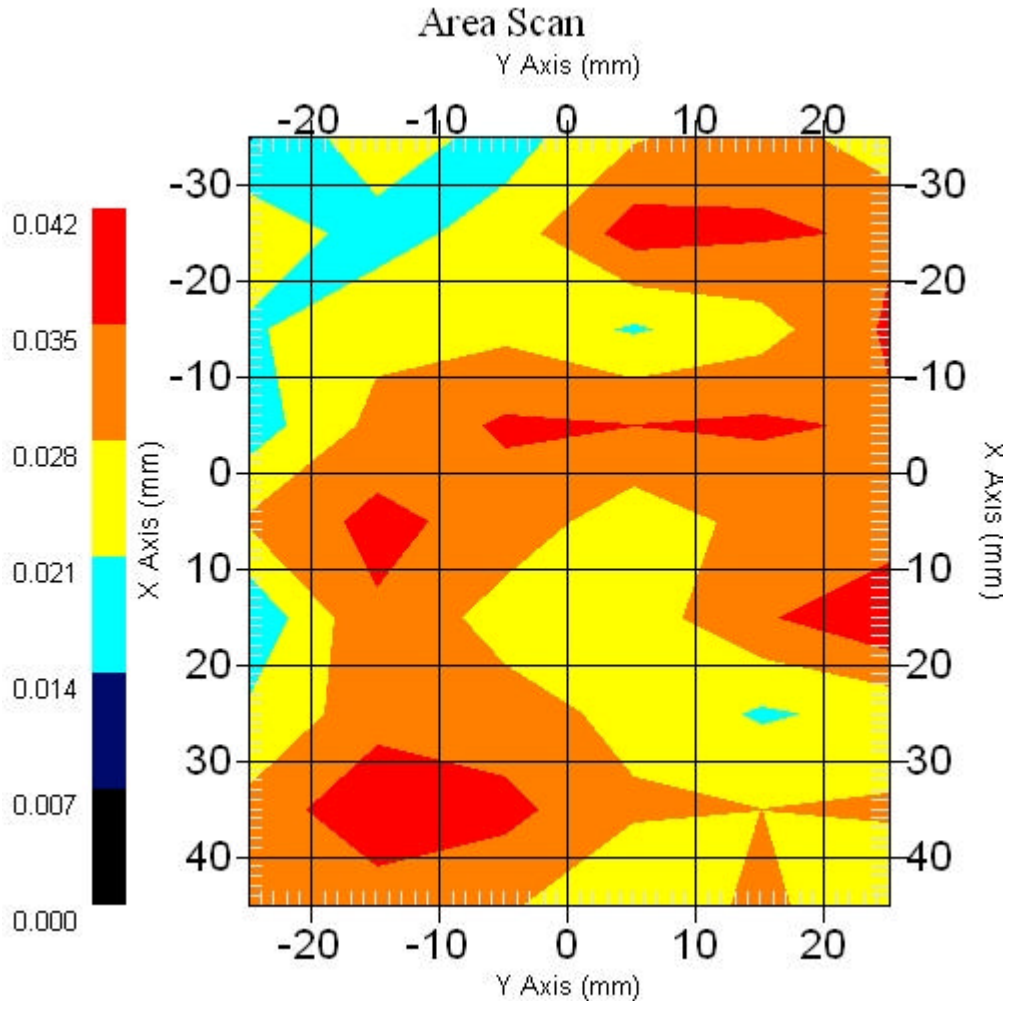
```
Measurement Data
Crest Factor     : 1
Scan Type        : Complete
Area Scan        : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan        : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position     : Touch
Separation       : 0
Channel          : Mid - 2437MHz

Power Drift-Start : 0.066 W/kg
Power Drift-Finish: 0.067 W/kg
Power Drift (%)   : 1.165
Picture           :
```




```
1 gram SAR value   : 0.128 W/kg
10 gram SAR value  : 0.063 W/kg
Area Scan Peak SAR : 0.136 W/kg
Zoom Scan Peak SAR : 0.290 W/kg
```

■ 2437 MHz, EUT Position: Tablet SL 836 EGSM

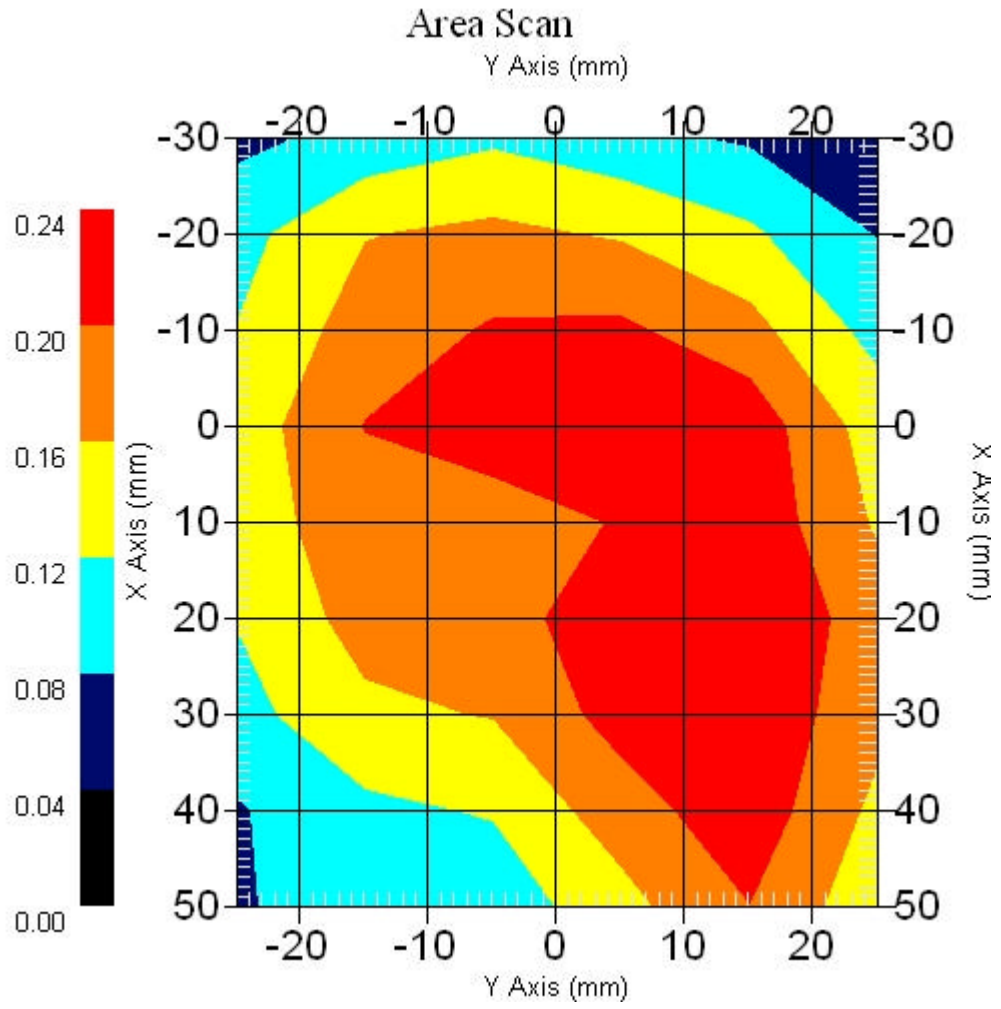
```
Measurement Data
Crest Factor     : 1
Scan Type        : Complete
Area Scan        : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan        : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position     : Touch
Separation       : 0
Channel          : Mid - 2437MHz

Power Drift-Start : 0.025 W/kg
Power Drift-Finish: 0.026 W/kg
Power Drift (%)   : 4.184
Picture           :
```




```
1 gram SAR value   : 0.065 W/kg
10 gram SAR value  : 0.047 W/kg
Area Scan Peak SAR : 0.041 W/kg
Zoom Scan Peak SAR : 0.100 W/kg
```

■ **2437 MHz, EUT Position: Tablet SP 836 EGSM**

```
Measurement Data
Crest Factor     : 1
Scan Type        : Complete
Area Scan        : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan        : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data
DUT Position     : Touch
Separation       : 0
Channel          : Mid - 2437MHz

Power Drift-Start : 0.240 W/kg
Power Drift-Finish: 0.241 W/kg
Power Drift (%)   : 4.166
Picture           :
```




```
1 gram SAR value   : 0.260 W/kg
10 gram SAR value  : 0.199 W/kg
Area Scan Peak SAR : 0.237 W/kg
Zoom Scan Peak SAR : 0.230 W/kg
```