

SAR Test Report No.:

SAR_684_2003_FCC_850_1900_2450_AC555_2200BG

Date of Report: 7/12/2004

Appendix A Plots

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Date / Time:	9/4/2003 10:23:36 AM	Position:	Lap
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	835
Shape File:	xplorgprslap.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_835_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.35 7	0.35 7	0.35 7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	850
Type:	Body
Conductivity:	0.986
Relative Permittivity:	55.4
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420

ZOOM SCAN RESULTS:

Spot SAR

(W/kg):

Start Scan

0.073

End Scan

0.073

**Change during
Scan (%)**

-0.12

Max E-field

(V/m):

14.28

Max SAR

(W/kg)

1g

0.174

10g

0.115

Location of

Max (mm):

X

75.1

Y

-49.0

Z

-174.7

A 2D SAR plot showing the distribution of SAR (W/kg) over a 2D area. The plot is a heatmap with a color scale ranging from 0.02 (blue) to 0.12 (red). The x-axis is labeled 'Y (mm)' and ranges from -100 to 100. The y-axis is labeled 'Z (mm)' and ranges from -300 to 0. A yellow line indicates the scan path, starting at approximately (-75, 0), moving down to (-75, -125), then right to (75, -125), and finally down to (75, -150). A small rectangular region of high SAR (red/orange) is visible in the center of the plot, roughly between Y = -25 and 25, and Z = -125 and -150.

AREA SCAN:

Scan Extent:

	Min	Max	Steps
Y	50.0	-50.0	10.0
Z	-190.0	-100.0	10.0

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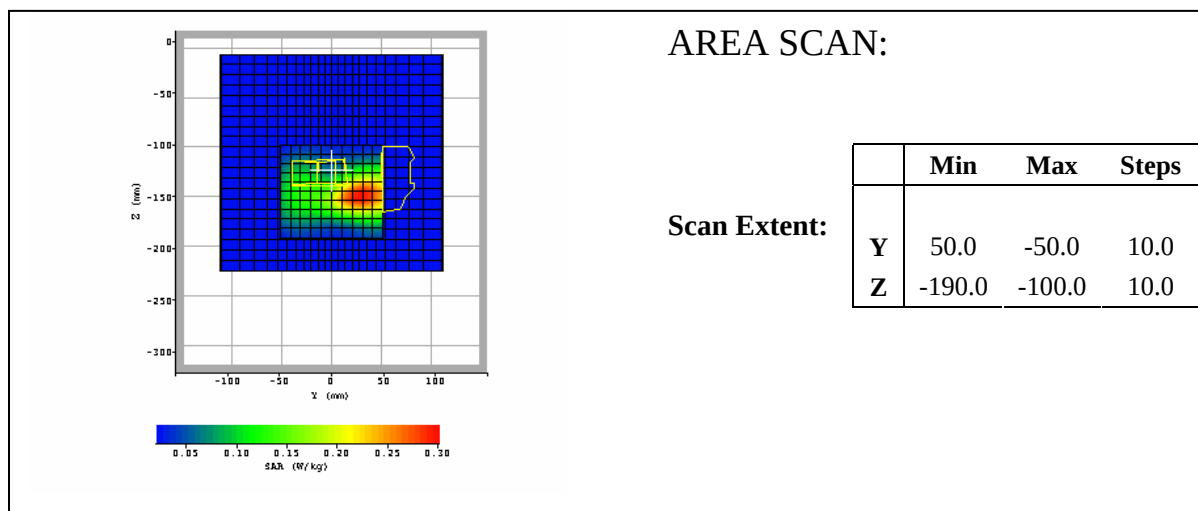
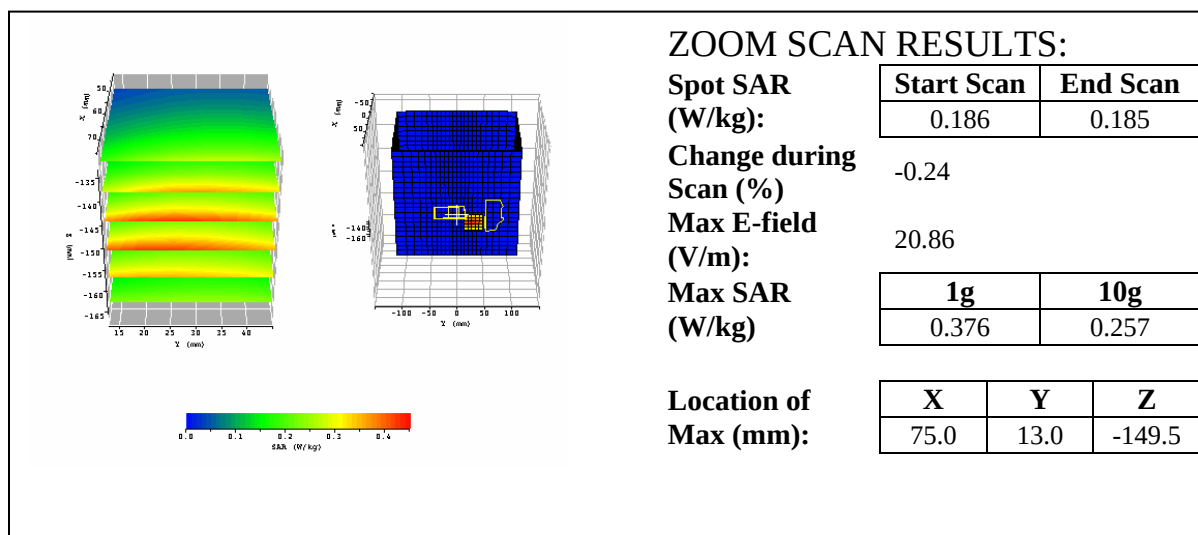
Appendix A Plots

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Date / Time:	9/4/2003 10:50:14 AM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	835
Shape File:	xplorgprsbystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_835_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.35 7	0.35 7	0.35 7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	850
Type:	Body
Conductivity:	0.986
Relative Permittivity:	55.4
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420



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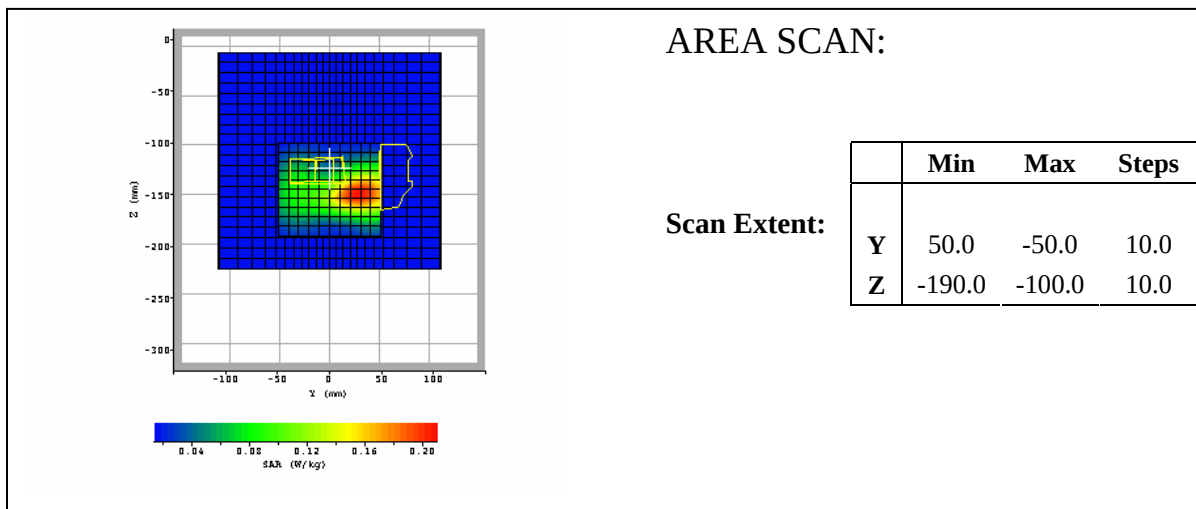
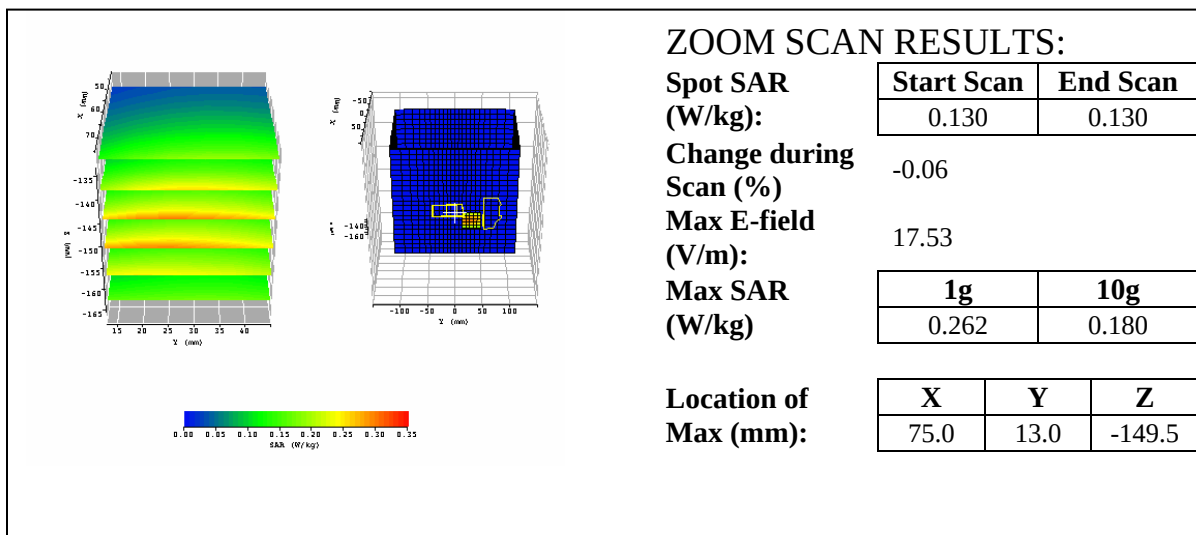
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Date / Time:	9/4/2003 11:16:22 AM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	825.25
Shape File:	xplorgprsbystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_835_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.35	0.35	0.35
		7	7	7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	850
Type:	Body
Conductivity:	0.977
Relative Permittivity:	55.8
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420



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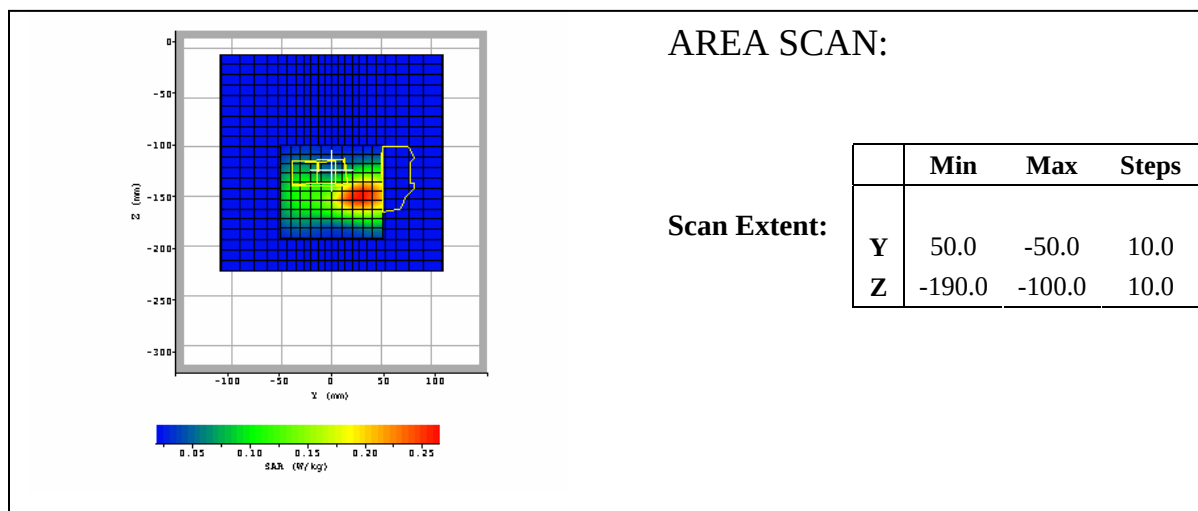
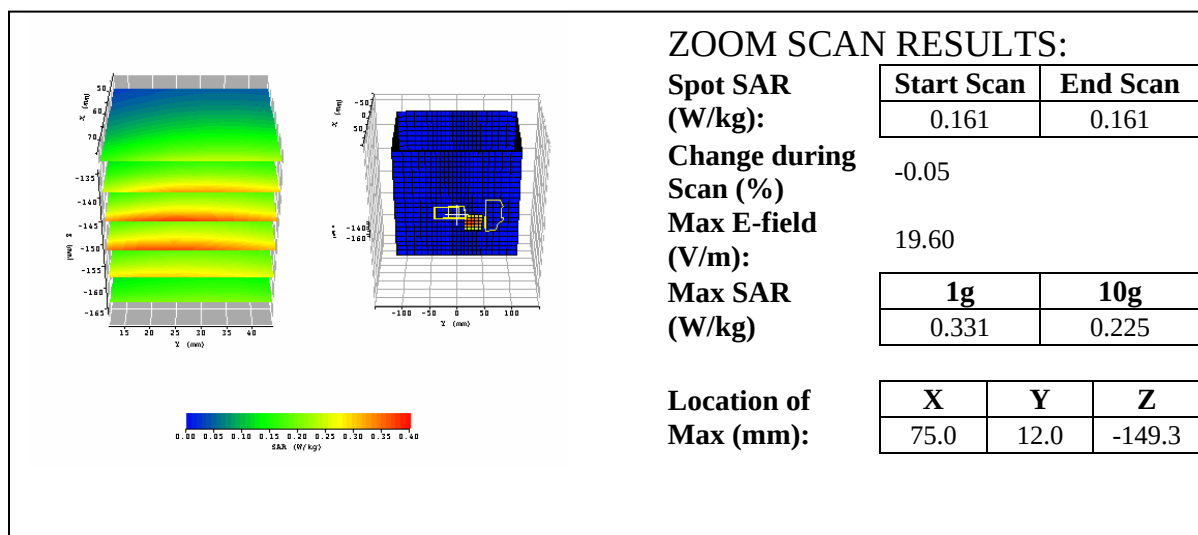
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Date / Time:	9/4/2003 11:43:05 AM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	847.75
Shape File:	xplorgprsbystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_835_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.35 7	0.35 7	0.35 7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	850
Type:	Body
Conductivity:	0.992
Relative Permittivity:	55.3
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420



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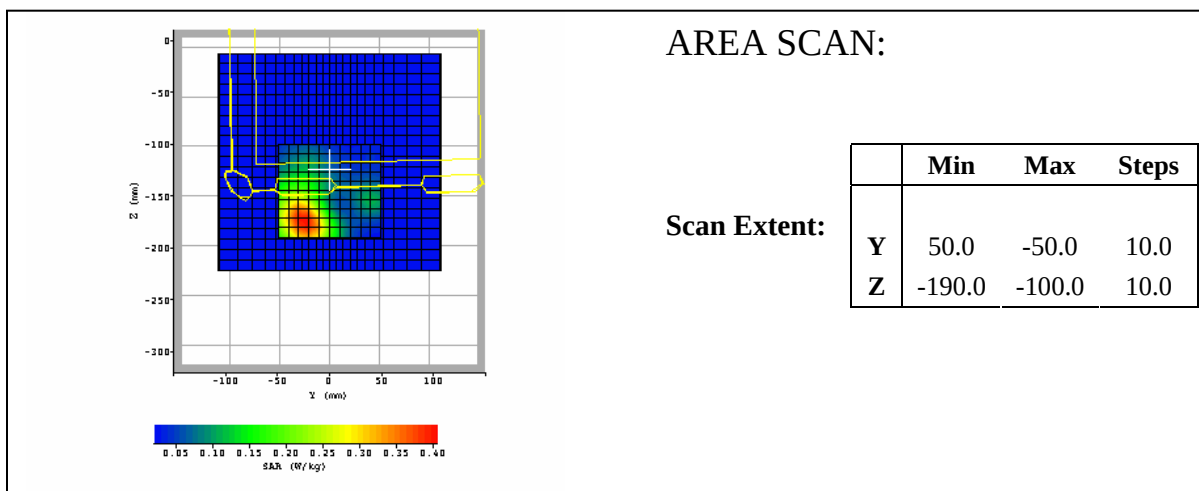
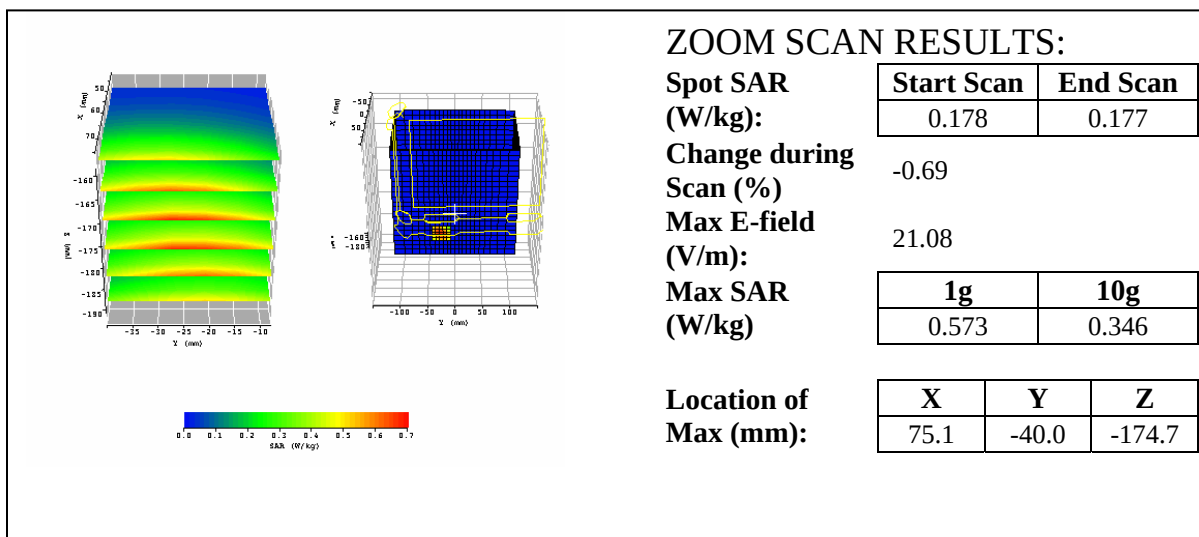
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1900MHz:

Date / Time:	9/3/2003 3:32:01 PM	Position:	Lap
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	1880
Shape File:	xplorgprslap.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_1900_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.47	0.47	0.47
		7	7	7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	1900
Type:	Body
Conductivity:	1.540
Relative Permittivity:	53.27
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420



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Date / Time:	9/3/2003 4:26:52 PM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	1880
Shape File:	xplorgprsbystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_1900_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.47	0.47	0.47
		7	7	7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	1900
Type:	Body
Conductivity:	1.540
Relative Permittivity:	53.27
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420

The figure consists of two 3D surface plots and a color bar. The left plot shows a color-coded SAR distribution on a grid, with a color bar below indicating SAR values from 0.0 to 1.4 W/kg. The right plot shows a 3D wireframe model of a head phantom with a yellow box highlighting the area of interest. The color bar is labeled 'SAR (W/kg)' and ranges from 0.0 to 1.4.

ZOOM SCAN RESULTS:

Spot SAR

(W/kg):

Start Scan	End Scan
0.330	0.330

**Change during
Scan (%)**

0.22

Max E-field

(V/m):

29.60

Max SAR

(W/kg)

1g	10g
1.067	0.587

Location of

Max (mm):

X	Y	Z
75.1	-2.0	-145.0

The figure displays a 2D color-coded SAR distribution plot. The horizontal axis is labeled 'X (mm)' and ranges from -100 to 100. The vertical axis is labeled 'Z (mm)' and ranges from -300 to 0. A color bar at the bottom indicates SAR values in W/kg, ranging from 0.1 (blue) to 0.8 (red). The plot shows a grid of SAR values, with a yellow box highlighting a region of interest around the center. A white crosshair is also visible within the highlighted region.

AREA SCAN:

Scan Extent:

	Min	Max	Steps
Y	50.0	-50.0	10.0
Z	-190.0	-100.0	10.0

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Date / Time:	9/3/2003 4:52:34 PM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	1851.25
Shape File:	xplorgprsbystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_1900_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.47 7	0.47 7	0.47 7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	1900
Type:	Body
Conductivity:	1.531
Relative Permittivity:	53.46
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420

The figure displays two 3D SAR plots and a color bar. The left plot shows a cross-section of the body with SAR values ranging from 0.0 to 1.2 W/kg. The right plot shows a top-down view of the body with SAR values ranging from 0.0 to 1.2 W/kg. The color bar at the bottom indicates SAR values from 0.0 to 1.2 W/kg.

ZOOM SCAN RESULTS:

Spot SAR

(W/kg):

Change during

Scan (%)

Max E-field

(V/m):

Max SAR

(W/kg)

Start Scan

0.250

End Scan

0.253

1.15

26.03

1g

0.816

10g

0.448

Location of

Max (mm):

X

75.1

Y

-2.0

Z

-145.0

The figure displays a 2D AREA SCAN plot of SAR values. The vertical axis is labeled 'Z (mm)' and ranges from -300 to 0. The horizontal axis is labeled 'Y (mm)' and ranges from -100 to 100. A color bar at the bottom indicates SAR values in W/kg, ranging from 0.1 (blue) to 0.5 (red). The plot shows a grid of SAR values with a central region of high SAR (red/yellow) and a surrounding region of lower SAR (blue/green). A yellow rectangular box highlights a specific area of interest within the high SAR region.

AREA SCAN:

Scan Extent:

	Min	Max	Steps
Y	50.0	-50.0	10.0
Z	-190.0	-100.0	10.0

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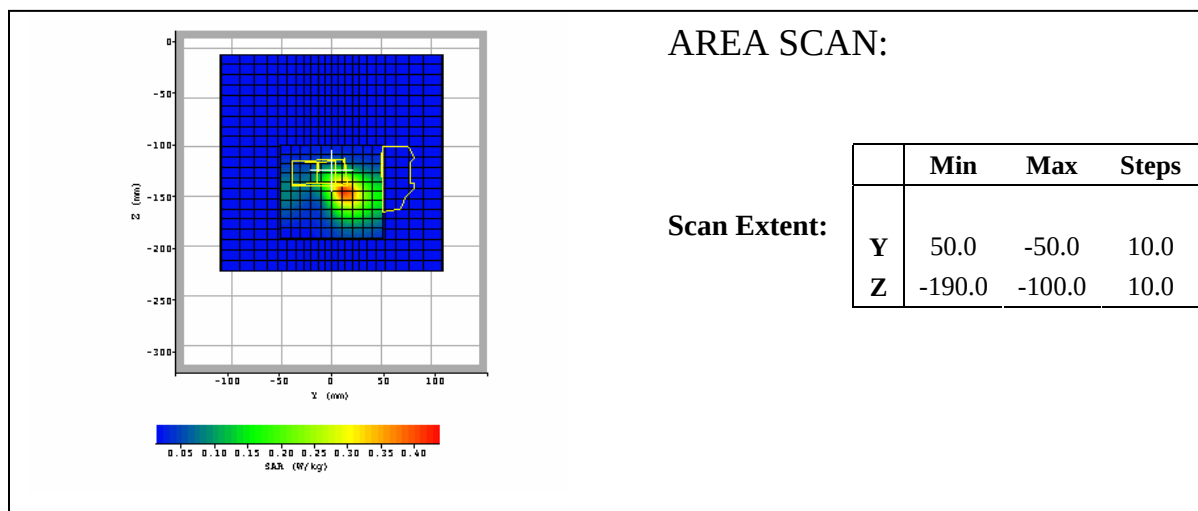
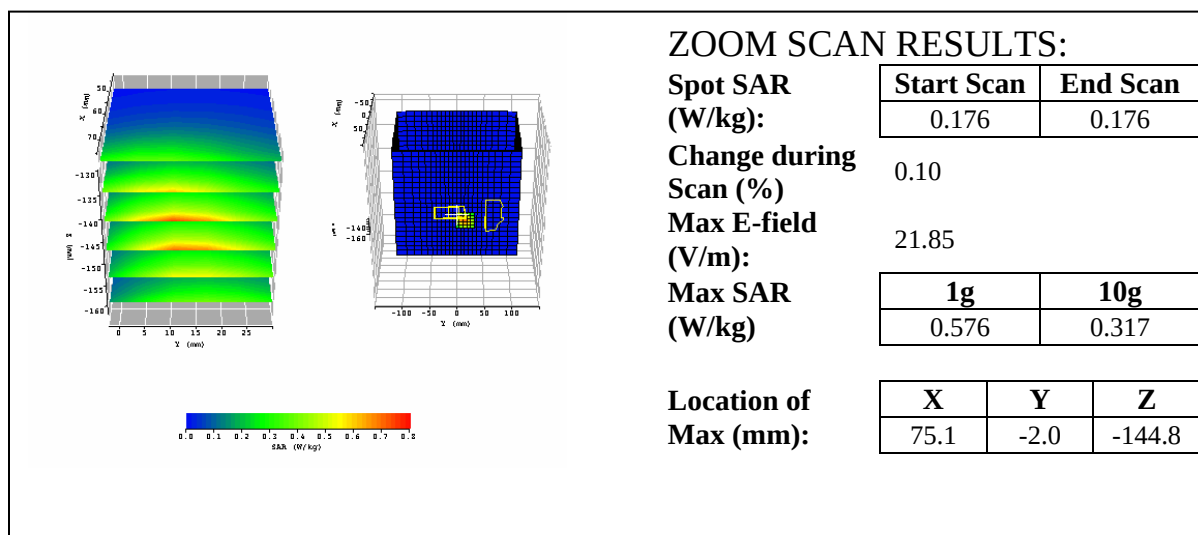
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Date / Time:	9/3/2003 5:19:41 PM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	1908.75
Shape File:	xplorgprsbystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_1900_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.47 7	0.47 7	0.47 7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	1900
Type:	Body
Conductivity:	1.551
Relative Permittivity:	53.06
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420



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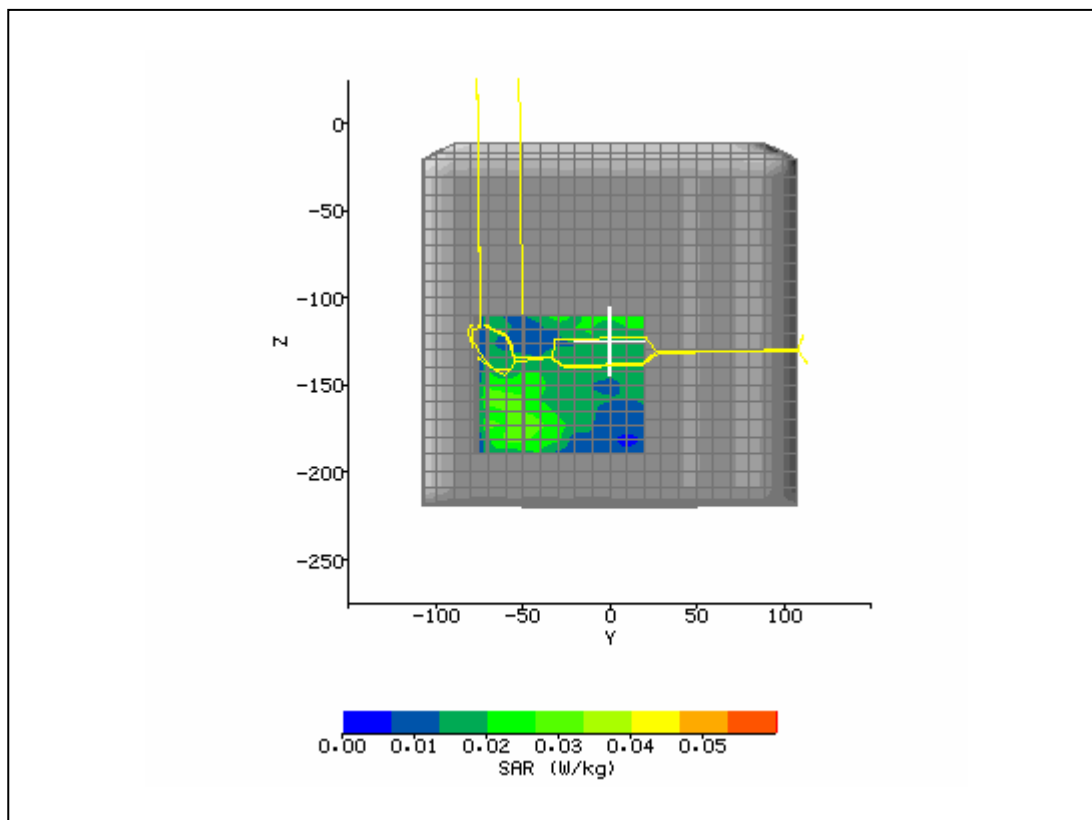
SAR_684_2003_FCC_850_1900_2450_AC555_2200BG

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System / software:	SARA2 / 2.3 VPM	Input Power Drift:	
Date / Time:	6/21/2004 11:49:15 AM	DUT Battery Model/No:	
Filename:	temp.txt	Probe Serial Number:	0106
Ambient Temperature:	22.0°C	Liquid Simulant:	2450
Device Under Test:	Xplore	Relative Permittivity:	52.29
Relative Humidity:	50%	Conductivity:	1.966
Phantom S/No:	HeadBox_new_spout.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-50.00 mm
DUT Position:	Lap	Max SAR Z-axis Location:	-174.80 mm
Antenna Configuration:	AUX	Max E Field:	5.26 V/m
Test Frequency:	2437MHz	SAR 1g:	0.044 W/kg
Air Factors:	415 / 805 / 371	SAR 10g:	0.027 W/kg
Conversion Factors:	0.585 / 0.585 / 0.585	SAR Start:	0.019 W/kg
Type of Modulation:		SAR End:	0.019 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	0.04 dB
Diode Compression Factors (V*200):	19 / 19 / 19	Probe battery last changed:	06/03/2004
Input Power Level:	max	Extrapolation:	poly4



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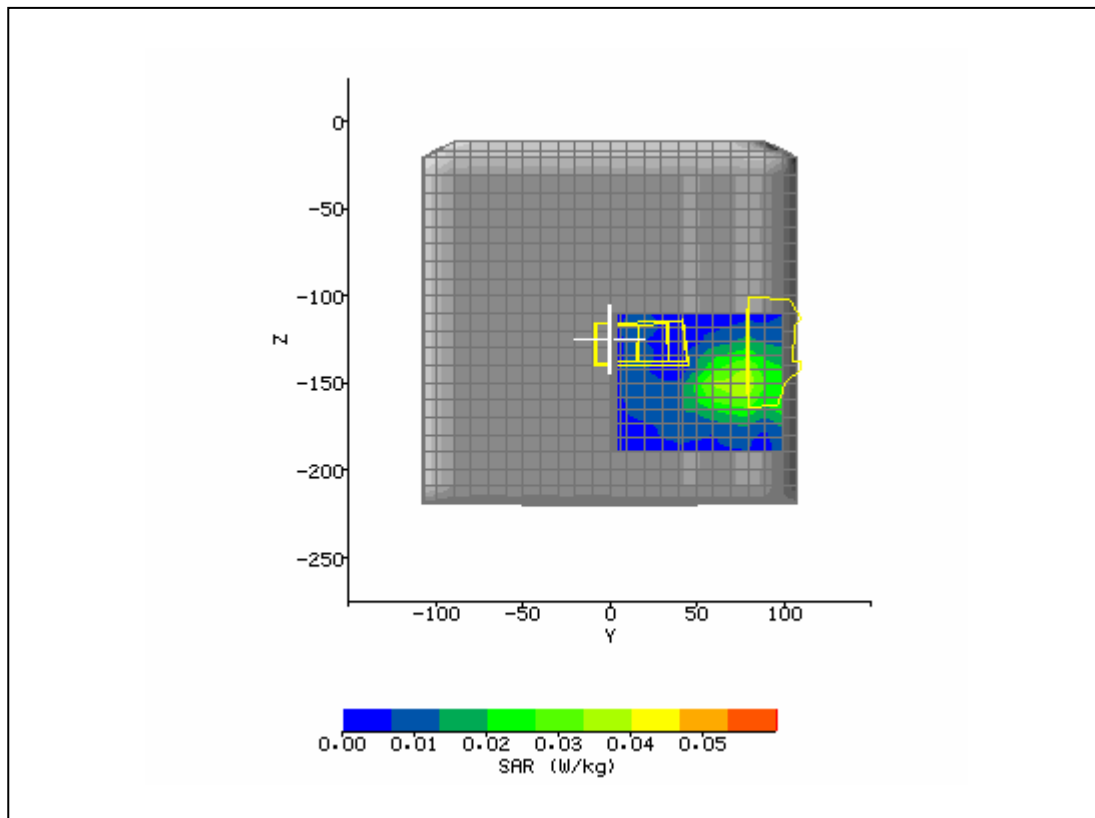
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System / software:	SARA2 / 2.3 VPM	Input Power Drift:	
Date / Time:	6/21/2004 12:28:23 PM	DUT Battery Model/No:	
Filename:	temp.txt	Probe Serial Number:	0106
Ambient Temperature:	22.0°C	Liquid Simulant:	2450
Device Under Test:	Xplore	Relative Permittivity:	52.29
Relative Humidity:	50%	Conductivity:	1.966
Phantom S/No:	HeadBox_new_spout.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	76.00 mm
DUT Position:	bystander 1cm	Max SAR Z-axis Location:	-150.00 mm
Antenna Configuration:	AUX	Max E Field:	5.35 V/m
Test Frequency:	2437MHz	SAR 1g:	0.047 W/kg
Air Factors:	415 / 805 / 371	SAR 10g:	0.028 W/kg
Conversion Factors:	0.585 / 0.585 / 0.585	SAR Start:	0.011 W/kg
Type of Modulation:		SAR End:	0.011 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-0.03 dB
Diode Compression Factors (V*200):	19 / 19 / 19	Probe battery last changed:	06/03/2004
Input Power Level:	max	Extrapolation:	poly4



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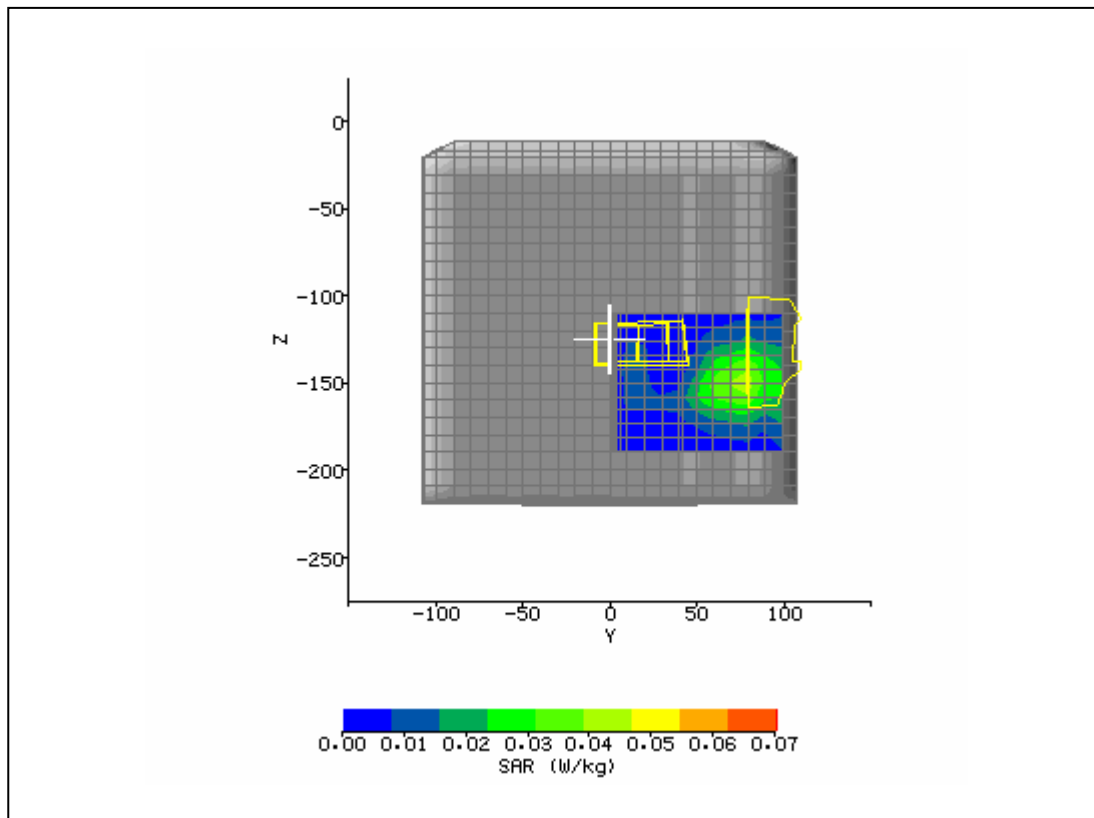
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System / software:	SARA2 / 2.3 VPM	Input Power Drift:	
Date / Time:	6/21/2004 1:00:01 PM	DUT Battery Model/No:	
Filename:	bystander1cm2437_3d.txt	Probe Serial Number:	0106
Ambient Temperature:	22.0°C	Liquid Simulant:	2450
Device Under Test:	Xplore	Relative Permittivity:	52.35
Relative Humidity:	50%	Conductivity:	1.962
Phantom S/No:	HeadBox_new_spout.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	77.00 mm
DUT Position:	bystander 1cm	Max SAR Z-axis Location:	-150.00 mm
Antenna Configuration:	AUX	Max E Field:	5.62 V/m
Test Frequency:	2412MHz	SAR 1g:	0.052 W/kg
Air Factors:	415 / 805 / 371	SAR 10g:	0.031 W/kg
Conversion Factors:	0.585 / 0.585 / 0.585	SAR Start:	0.013 W/kg
Type of Modulation:		SAR End:	0.013 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-0.01 dB
Diode Compression Factors (V*200):	19 / 19 / 19	Probe battery last changed:	06/03/2004
Input Power Level:	max	Extrapolation:	poly4



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System / software:	SARA2 / 2.3 VPM	Input Power Drift:	
Date / Time:	6/21/2004 1:30:57 PM	DUT Battery Model/No:	
Filename:	bystander2412_3d.txt	Probe Serial Number:	0106
Ambient Temperature:	22.0°C	Liquid Simulant:	2450
Device Under Test:	Xplore	Relative Permittivity:	52.09
Relative Humidity:	50%	Conductivity:	1.997
Phantom S/No:	HeadBox_new_spout.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	76.00 mm
DUT Position:	bystander 1cm	Max SAR Z-axis Location:	-150.00 mm
Antenna Configuration:	AUX	Max E Field:	4.78 V/m
Test Frequency:	2462MHz	SAR 1g:	0.036 W/kg
Air Factors:	415 / 805 / 371	SAR 10g:	0.021 W/kg
Conversion Factors:	0.585 / 0.585 / 0.585	SAR Start:	0.008 W/kg
Type of Modulation:		SAR End:	0.008 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	0.03 dB
Diode Compression Factors (V*200):	19 / 19 / 19	Probe battery last changed:	06/03/2004
Input Power Level:	max	Extrapolation:	poly4

