

MOTOROLA INTERNAL USE ONLY

PRODUCT RADIO FREQUENCY ENERGY
EXPOSURE COMPLIANCE TEST
PRFEECT CERTIFICATE

PRFEECT NO.: N/A DATE SUBMITTED: 5/26/99 REVISION DATE/NUMBER: N/A

PRODUCT MANUFACTURER: Motorola

SECTOR/GRUOP/DIVISION: PCD/CIG OTHER:

LOCATION (ADDRESS): 5555 North Beach Street, Fort Worth, Texas 76137

PRODUCT DESCRIPTION: Fixed Wireless Terminal (FWT)

MODEL: ST1001B SERIAL NUMBER: 634DZQ3281

FREQUENCIES OF OPERATION: 1850-1910

MAXIMUM POWER OUTPUT (WATTS): 1

TEST METHOD : SAR to General Population/Uncontrolled Exposure Limits

TESTING LOCATION: Motorola Florida Research Laboratories

PRODUCT CUSTOMERS AND LOCATION (to confirm applicable standards, state whether the customers are consumers or other users and identify generally the geographic areas where product is intended to be sold):

Europe, North America, Latin America, Australia and Middle East

Based on the information provided and the testing results obtained for the above described product, the undersigned certifies ~~that~~, when used as stated in the operating instructions supplied, said product is within the limits identified in Policy, Section III, for the region in which it is intended to be sold.

PRINT NAME: Q. Balzano

SIGNED : E. K. Chan for Q. Balzano DATE APPROVED: 7/28/99

TITLE: Chief EME Scientist, Motorola Florida Research Laboratories

LOCATION : Motorola, 8000 W. Sunrise Blvd., Plantation, Florida, 33322

PHONE: (954) 723-6139 FAX: (954) 723-5611

Forward a signed copy of this form to: Motorola Chief EME Scientist, Motorola Inc.,
Motorola Florida Research Laboratories, 8000 West Sunrise Boulevard, Plantation,
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ALD 10/20/96

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Number : EME2-400
Issue : 0
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Prepared : June 22, 1999

A.2 RADIO TEST DATA SHEET

[illegible]

File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/99072703_ZOOM.VLT
Start : 27-Jul-99 04:58:26 pm End : 27-Jul-99 04:59:04 pm
Ver : 3.50

Radio Type : Fixed Wireless Terminal
Model Number : ST1001a
Serial Number : 634D2G3281
Frequency : 1881 MHz
Peak Trans. Pwr : 1.000 W
Start Trans. Pwr: 0.200 W
Antenna Type : Center Fed
Antenna Posn. : Out
Phantom Type : Body
Phantom Posn. : Abdomen
Scan Type : SAR
Probe Name : pG
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Muscle
Mixture Dielectric Constant = 49.900
Mixture Conductivity = 1.930

Comment :
Unit tested at 5 cm away from the phantom
Prototype test

Robot : Robot

Probe Offset = 0.26 cm
Sensor Factor = 0.0108
Conversion Factor = 1.672

pG Amplifier Channel Settings : 0.279 0.273 0.177

Max Location : X = -5.750, Y = -0.250, Z = 0.000 (cm) Value = 0.585

Measured Values (volts) =
5.467E-004 1.701E-004 2.195E-004 1.349E-004 7.746E-005 5.190E-005
2.294E-005 3.516E-006 0.000E+000 0.000E+000 0.000E+000

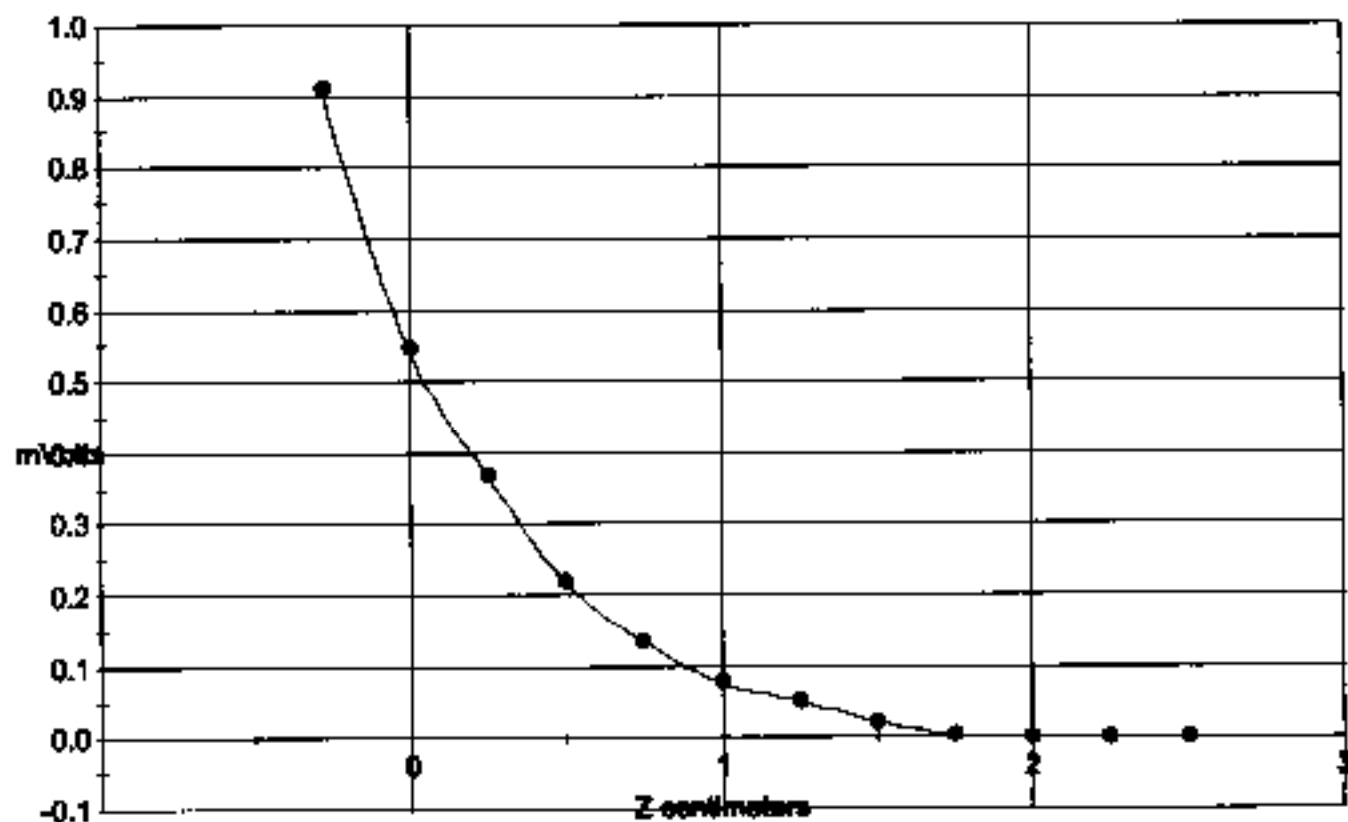
Calc. Voltage @ Surface (Vs) = 0.0009

Voltage @ 1.00 cm (Vt) = 0.0001

Ave. Voltage (Va+Vt)/2 = 0.0005

Ave. SAR over 1 g (mW/g) = 0.0819

SAR Scan
File : 99072703_ZOOM.VLT
Start : 27-Jul-99 04:58:28 pm End : 27-Jul-99 04:59:04 pm
Fixed Wireless Terminal/ST1001B/6340ZG3281;1881MHz;W;Center Fed/Out;
Body/Abdomen;SAR;pG/E Field/0 Degrees/Muscle/49.900/1.930
3.58



Start : 27-Jul-99 04:46:55 pm End : 27-Jul-99 04:57:01 pm
Ver : 3.58

Radio Type : Fixed Wireless Terminal
Model Number : ST1001B
Serial Number : 634DEG3281
Frequency : 1881 MHz
Peak Trans. Pwr : 1.000 W
Start Trans. Pwr: 0.200 W
Antenna Type : Center Fed
Antenna Posn. : Out
Phantom Type : Body
Phantom Posn. : Abdomen
Scan Type : ECOM/SAR
Probe Name : pG
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Muscle
Mixture Dielectric Constant = 49.900
Mixture Conductivity = 1.930

Comment :
Unit tested at 5 cm away from the phantom
Prototype test

Robot : Robot

Probe Offset = 0.28 cm
Sensor Factor = 0.0108
Conversion Factor = 1.672

pG Amplifier Channel Settings : 0.279 0.273 0.177

Max Location : X = -5.750, Y = -0.250, Z = 0.000 (cm) Value = 0.585

Measured Values (volts) =
5.638E-004 2.292E-004 9.629E-005 4.353E-005 1.241E-006 0.000E+000
0.000E+000 0.000E+000 0.000E+000 0.000E+000 0.000E+000

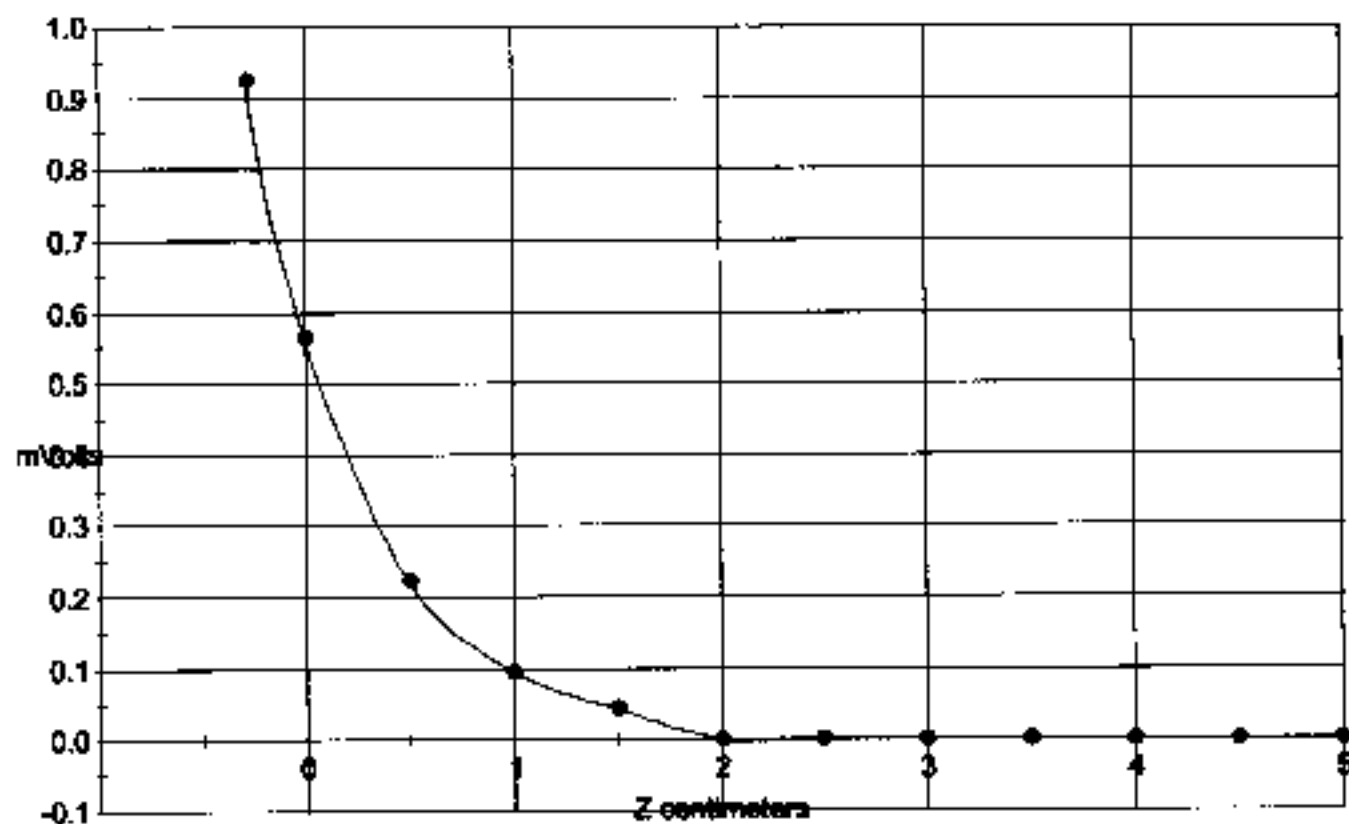
Calc. Voltage @ Surface (Vs) = 0.0009

Voltage @ 1.00 cm (Vt) = 0.0002

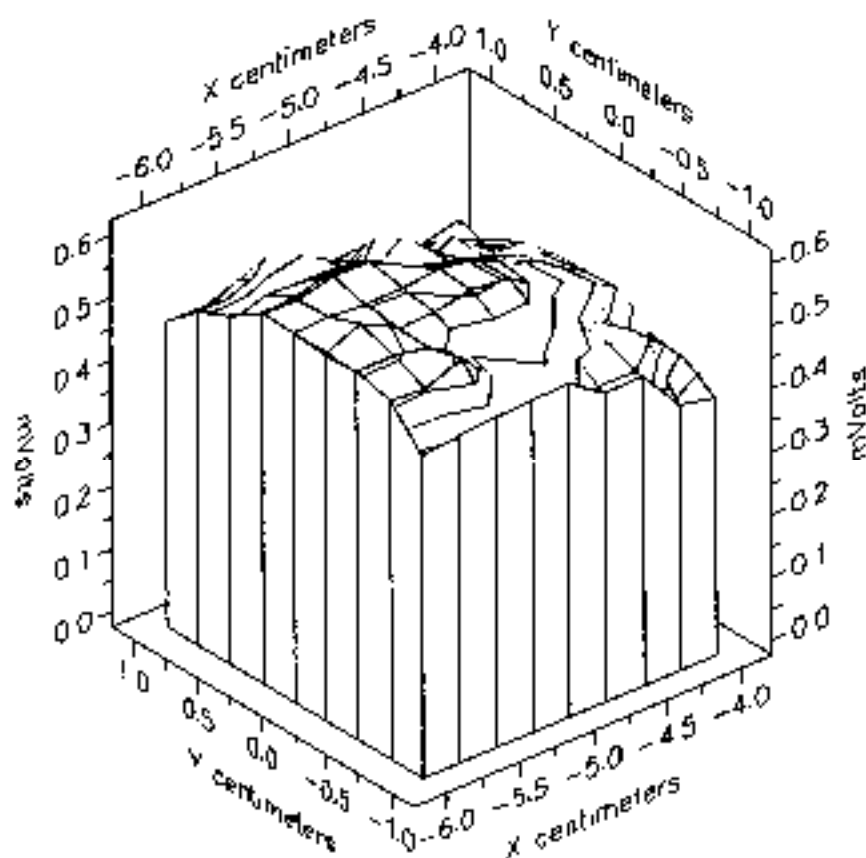
Ave. Voltage (Vs+Vt)/2 = 0.0005

Ave. SAR over 1 g (mW/g) = 0.0846

SAR Scan
File : 99072702_ZOOM.VLT
Start : 27-Jul-99 04:46:55 pm End : 27-Jul-99 04:57:01 pm
Fixed Wireless Terminal/ST1001BA634DZG3281;1881MHz;W;Center Fed/Out;
Body/Abdomen;ZOOM/SAR;pG/E Field/0 Degree;Muscle/49.900/1.930
3.58

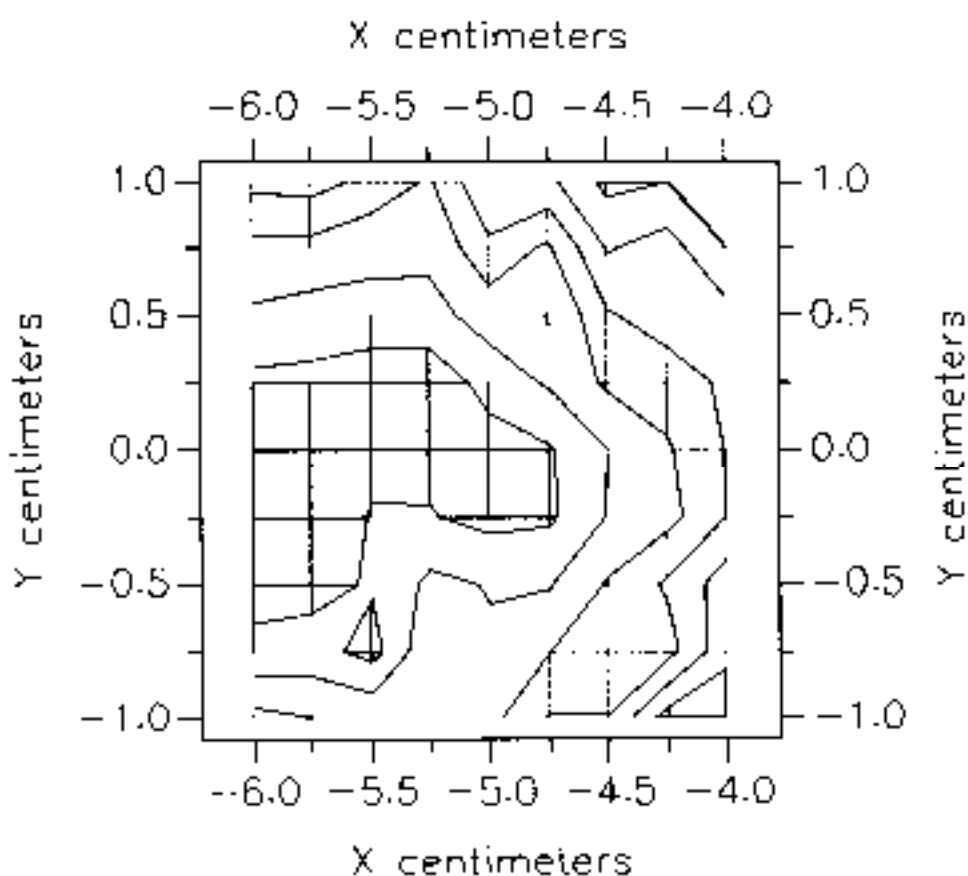


File : 89072702_ZOOM.VLT
 Start : 27-Jul-99 04:46:55 pm End : 27-Jul-99 04:57:01 pm
 Fixed Wireless Terminal/ST1001B/634DZG3281;1861MHz;W;Center Fed/Out;
 Body/Abdomen;ZOOM/SAR;pG/E Field/0 DegreesMuscle/49.900/t.930
 3.58



0.563 .. 0.58
 0.541 .. 0.56
 0.519 .. 0.54
 0.496 .. 0.51
 0.474 .. 0.49
 0.452 .. 0.47
 0.429 .. 0.45
 0.407 .. 0.42
 0.385 .. 0.40

File : 99072702_ZOOM.VLT
 Start : 27-Jul-99 04:46:55 pm End : 27-Jul-99 04:57:01 pm
 Fixed Wireless Terminal/ST1001B/634DZG3281;1881MHz;W;Center Fed/Out;
 Body/Abdomen;ZOOM/SAR;pG/E Field/0 Degrees/Muscle/49.900/1.930
 3.58



Start : 27-Jul-99 04:31:19 pm End : 27-Jul-99 04:46:55 pm
Ver : 1.58

Radio Type : Fixed Wireless Terminal
Model Number : ST1001B
Serial Number : 634DZG3201
Frequency : 1881 MHz
Peak Trans. Pwr : 1.000 W
Start Trans. Pwr : 0.200 W
Antenna Type : Center Fed
Antenna Posn. : Out
Antenna Type : Body
Antenna Posn. : Abdomen
Scan Type : AREA
Probe Name : pG
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Muscle
Mixture Dielectric Constant = 49.900
Mixture Conductivity = 1.930

Comment :
Unit tested at 5 cm away from the phantom
Prototype test

Robot : Robot

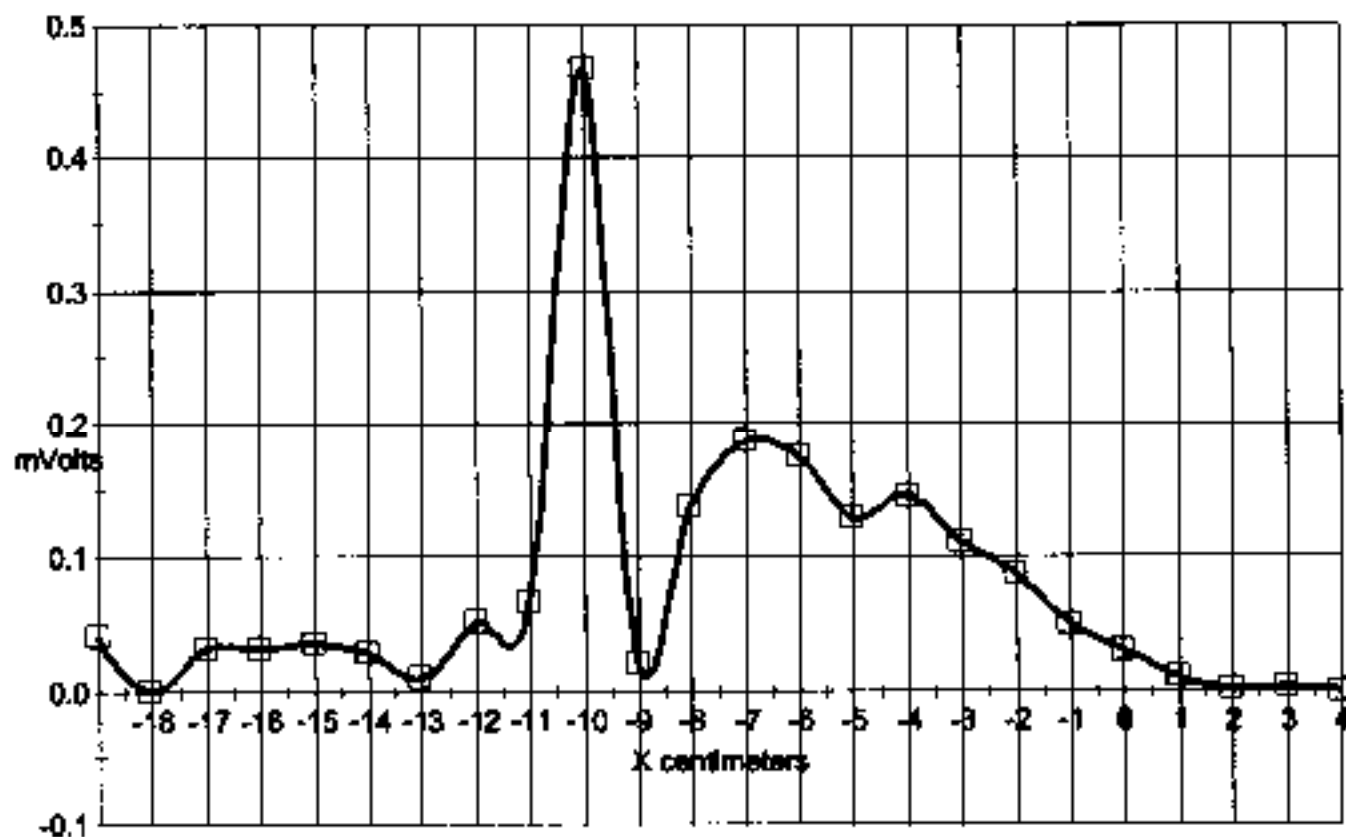
Probe Offset = 0.28 cm
Sensor Factor = 0.0100
Conversion Factor = 1.672

G Amplifier Channel Settings : 0.279 0.273 0.177

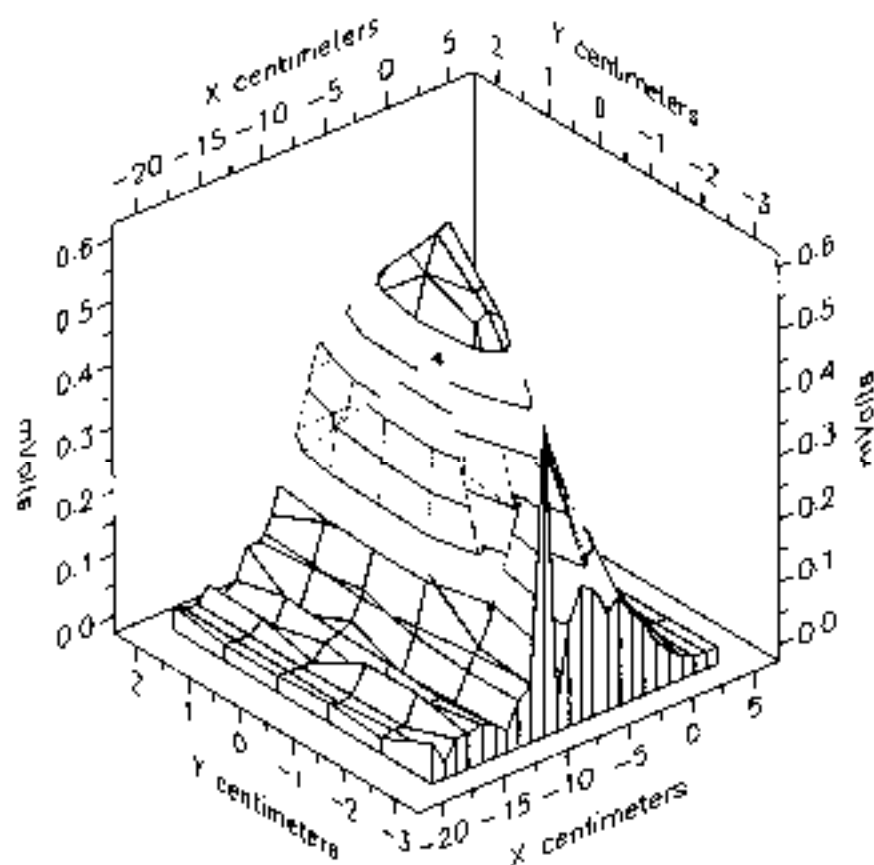
Max Location : X = -5.000, Y = 0.000, Z = 0.000 (cm) Value = 0.605

Area too wide. SAR value not calculated

X-Z Plane Slice Y=-3.000
File : 99072702 AREA.VLT
Start : 27-Jul-99 04:31:19 pm End : 27-Jul-99 04:46:55 pm
Fixed Wireless Terminal/ST1001B/634DZG3281;1881MHz;W:Center Fed/Out;
Body/Abdomen;AREA;pG/E Field/0 DegreesMuscle/49.900/1.930
3.58



File : 99072702 AREA.VLT
 Start : 27-Jul-99 04:31:19 pm End : 27-Jul-99 04:46:55 pm
 Fixed Wireless Terminal/ST1001B/634DZG3281;1881MHz;W;Center Fed/Out;
 Body/Abdomen;AREA;pG/E Field/0 DegreesMuscle/49.900/1.930
 3.56



—	0.538 .. 0.601
—	0.471 .. 0.531
—	0.403 .. 0.471
—	0.336 .. 0.403
...	0.269 .. 0.336
..	0.202 .. 0.269
—	0.134 .. 0.202
—	0.067 .. 0.134
—	0.000 .. 0.067

File : 99072702 AREA.VLT

Start : 27-Jul-99 04:31:19 pm End : 27-Jul-99 04:48:55 pm

Fixed Wireless Terminal/ST1001B/634DZG3281;1881MHz;W;Center Fed/Out;

Body/Abdomen;AREA;pG/E Field/0 Degree/Muscle/49.900/1.930
3.58

