



March 5, 2002

FCC ID: **AFJIC-M2A**
FCC Application Processing Branch
Correspondence Reference Number: **22101**
731 Confirmation Number: **EA940445**

Attn: **Mr. Martin Perrine**

1. With respect to obtaining the comparative test report from 3D-EMC laboratories, we were never provided with a full SAR report for the reference device but was provided with only the 1g average SAR value obtained for that sample. Due to operational issues with the reference sample (the phone became non-functional), we stopped using the phone for system verification about 6 months ago and have recently been using the dipole validation procedure as outlined in IEEE P1528. We have recently performed this validation again at your request and the results are attached. The frequency of validation was performed at 835MHz as we do not have a flat phantom large enough to perform the validation at 150MHz and that still meets the IEEE 1528 requirements. The worst case SAR was re-measured after the 835MHz validation was performed and the following tables summarizes the results.

	SAR (W/Kg) IEEE 1528 Specification	SAR (W/Kg) Measured	Deviation %
Dipole Validation 835MHz, 1Watt, 15mm distance	9.5	9.93	4.5%

	Nov 13, 2002 Scans	Mar 4, 2002 Scans
Worst Case SAR (W/Kg)	1.266 (2.531)	1.205 (2.410)

* The SAR measurements inside the parenthesis indicates the reading before the 50% duty factor is applied for the half-duplex type PTT device.

Should you require further information, please do not hesitate to contact me.

Regards,



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835MHz System Validation

Validation Info.

Date : 28/02/2002
Time : 5:30:45 PM

Product : System Validation
Manufacturer : UltraTech Lab.

Test : SAR
Frequency (MHz) : 835.0
Nominal Output Power (W) : 1.0
Antenna Type : Dipole
Signal : CW

Phantom : Flat
Simulated Tissue : Brain

Dielectric Constant : 43.5
Conductivity : 0.970

Probe : UT-ETR-0200-1
Probe Offset (mm) : 2.250
Sensor Factor (mV) : 10.8
Conversion Factor : 0.974
Calibrated Date : 21/12/2001

Antenna Position : Fixed
Measured Power (W) : 1.0
(Foward)

Amplifier Setting :

Channel 1 : 0.0052 Channel 2 : 0.0051 Channel 3 : 0.0064

Location of Maximum Field :

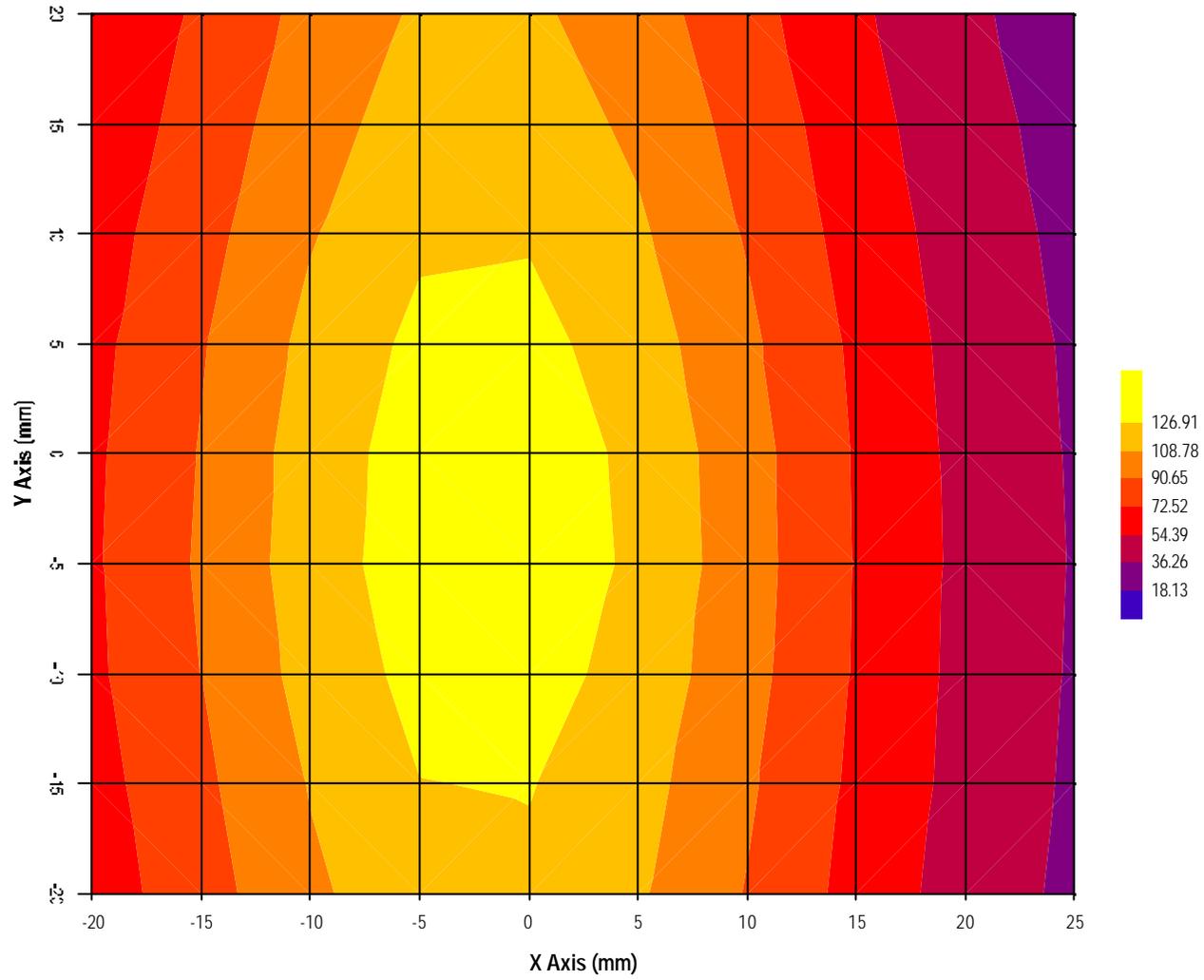
X = -4 Y = -4

Measured Values (mV) :

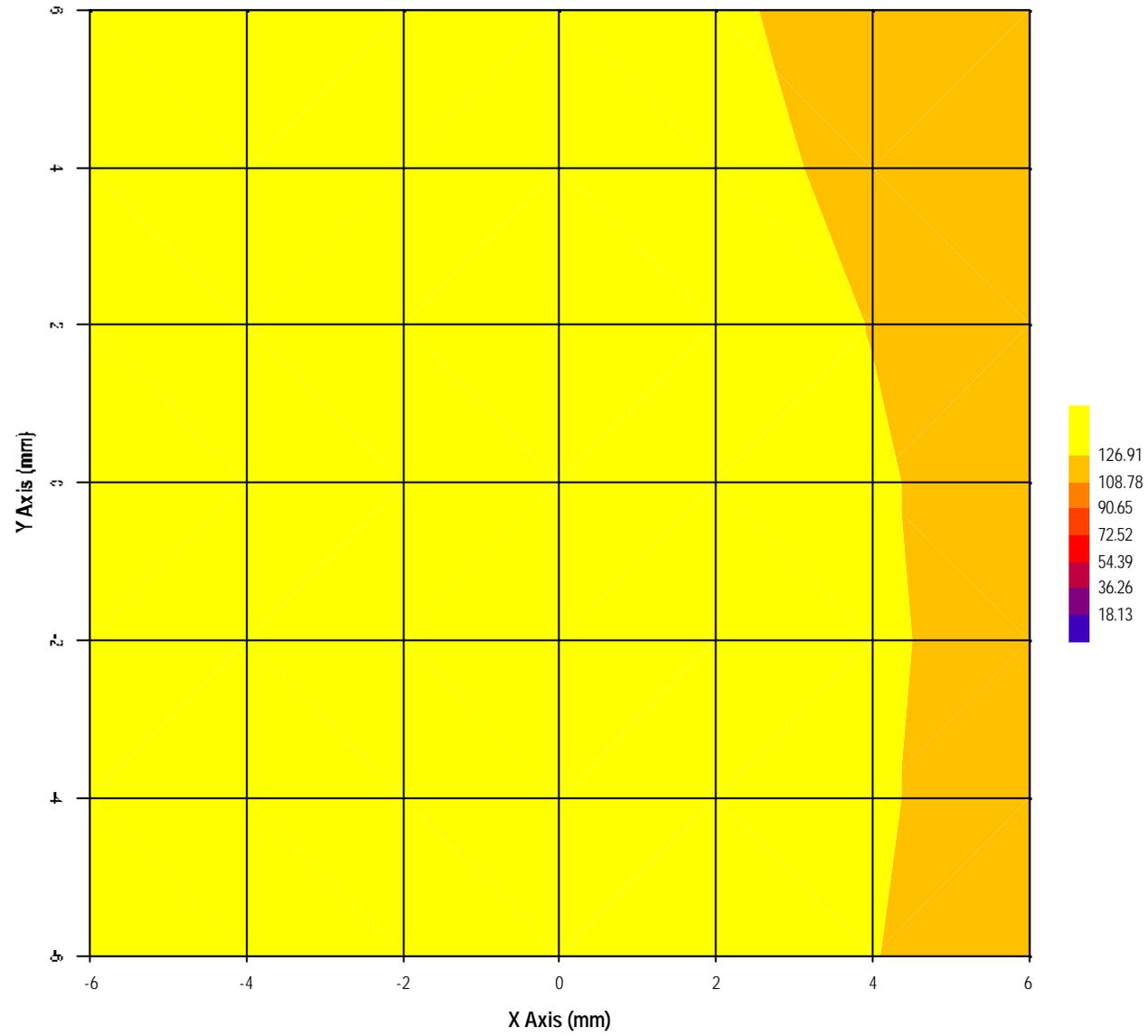
144.059 121.816 109.409 99.904 91.828 84.646
78.182 72.345 66.976 62.027 57.494

Peak Voltage (mV) : 178.824 1 Cm Voltage (mV) : 71.055 SAR (W/Kg) : 9.934

835MHz System Validation



835MHz System Validation



Test Information

Date : 04/03/2002
Time : 3:00:41 PM

Product : Handheld VHF radio
Manufacturer : ICOM AMERICA
Model Number : IC-M2A
Serial Number : 0015
FCC ID Number : AFJ-IC-M2A

Test : SAR
Frequency (MHz) : 157.4
Nominal Output Power (W) : 5.0
Antenna Type : Monopole
Signal : CW

Phantom : Flat
Simulated Tissue : Muscle

Dielectric Constant : 61.5
Conductivity : 0.806

Probe : UT-ETR-0200-1
Probe Offset (mm) : 2.250
Sensor Factor (mV) : 10.8
Conversion Factor : 0.508
Calibrated Date : 08/11/2001

Antenna Position : Fixed

Amplifier Setting :

Channel 1 : 0.0067 Channel 2 : 0.0064 Channel 3 : 0.0081

Location of Maximum Field :

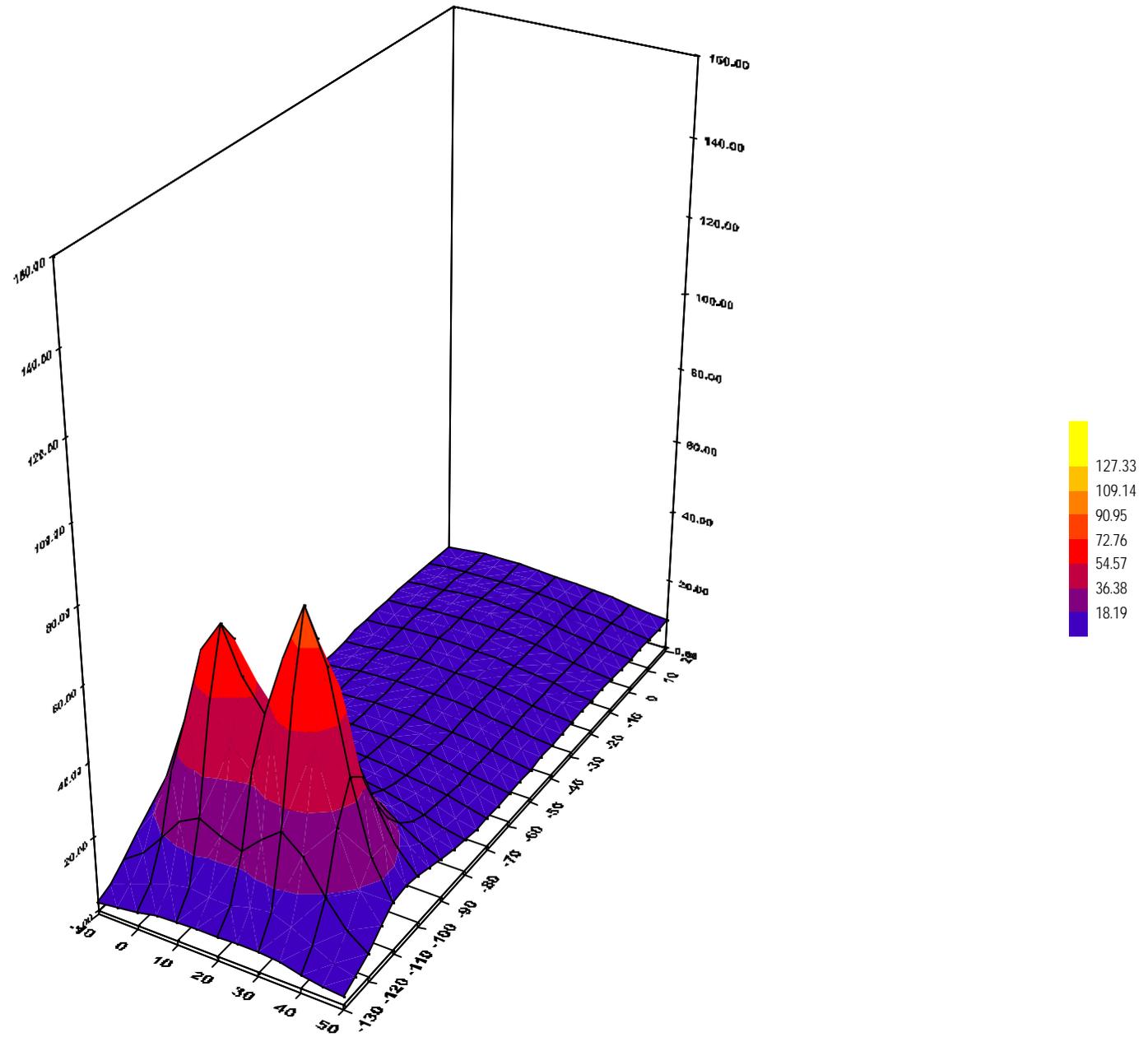
X = 30 Y = -110

Measured Values (mV) :

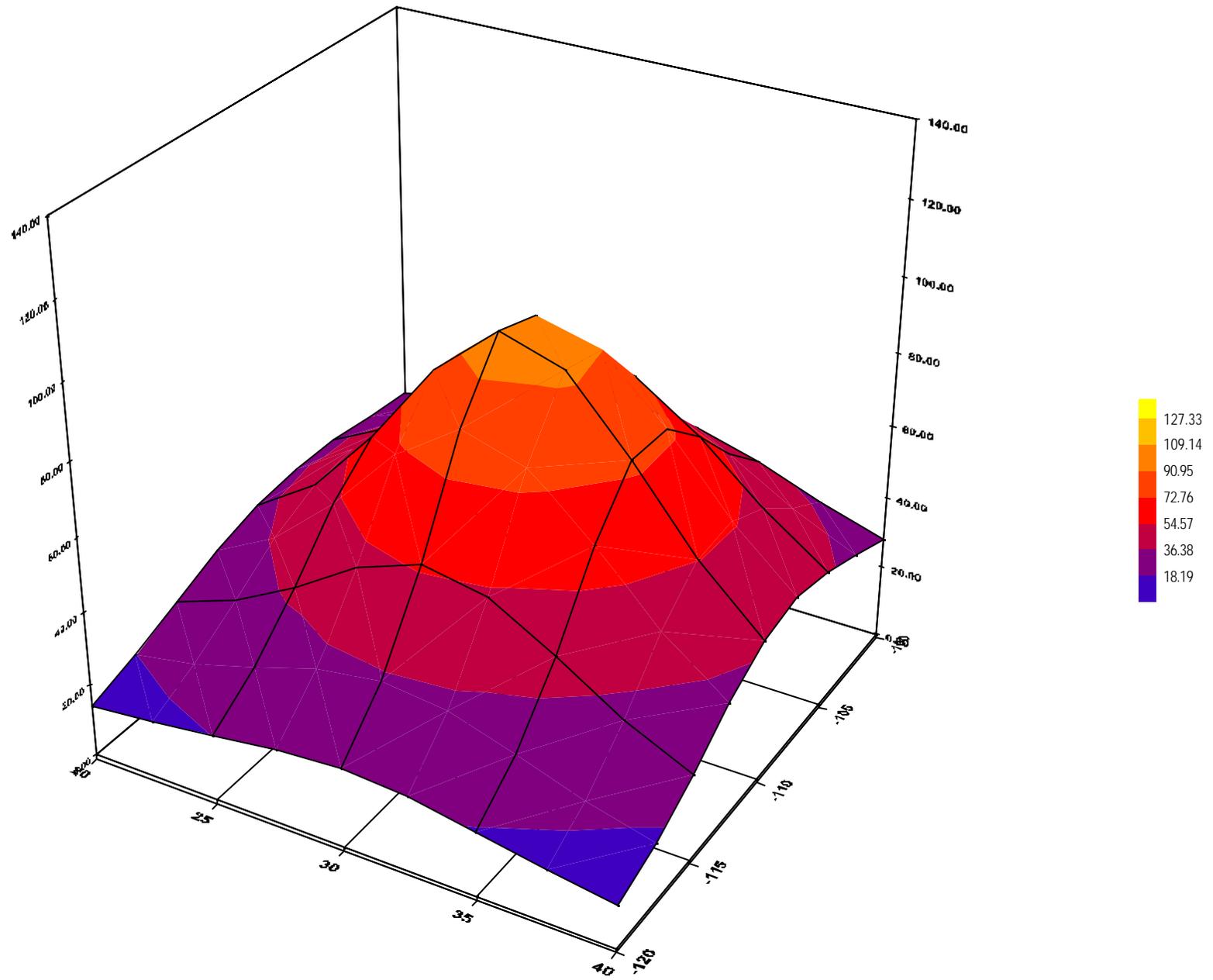
124.987 88.551 52.780 36.988 27.372 21.961
17.435 14.358 11.614 9.602 8.152

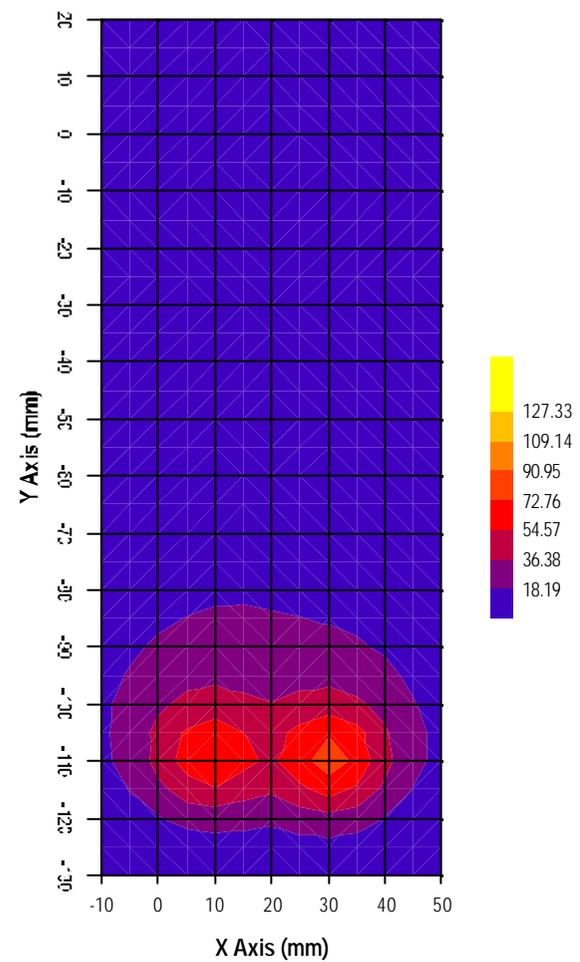
Peak Voltage (mV) : 294.020 1 Cm Voltage (mV) : 6.768 SAR (W/Kg) : 2.410

157.425MHz, Rotary belt clip(M/N: MB-87), Bottom of the EUT in contact with the phantom

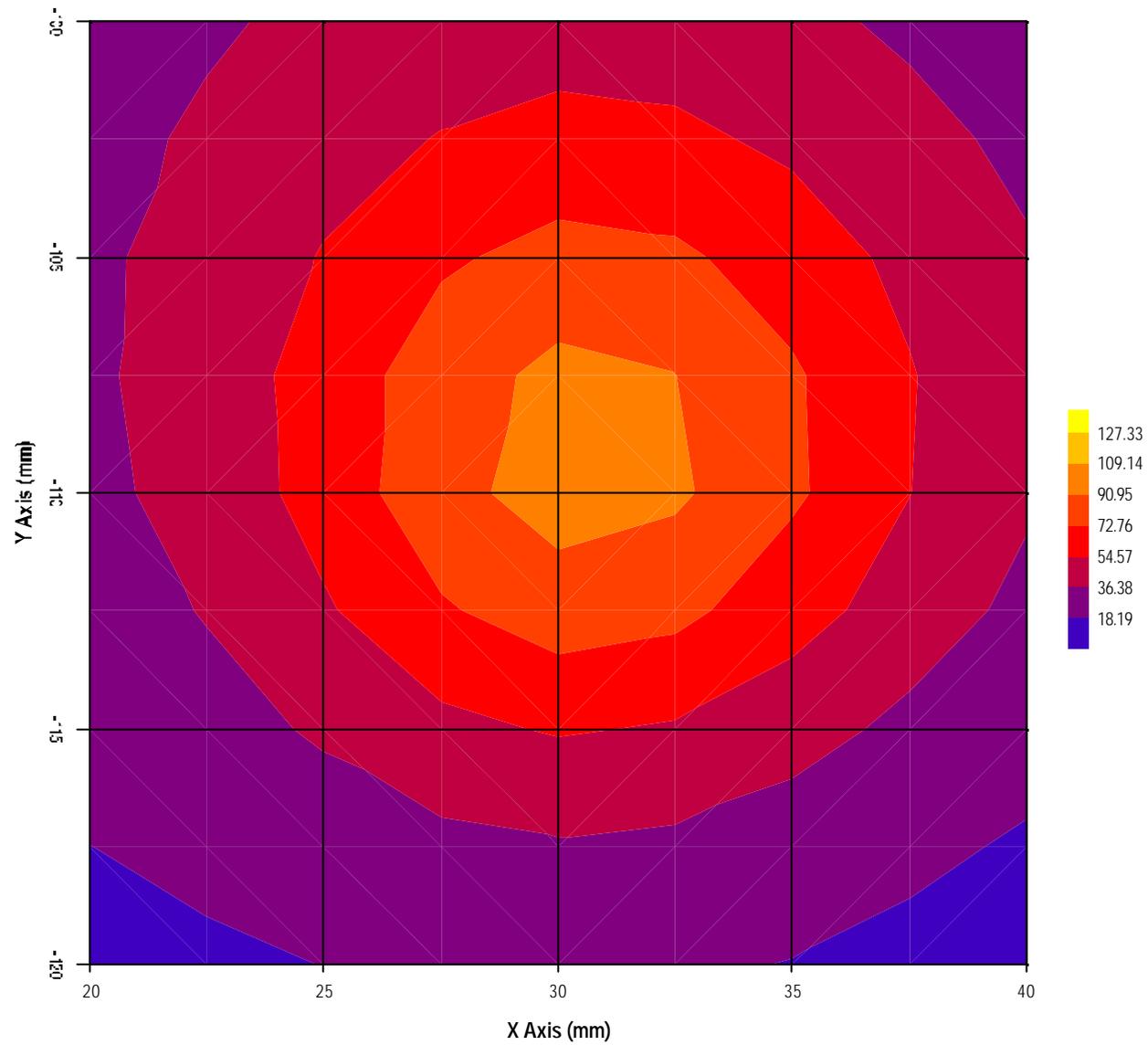


157.425MHz, Rotary belt clip(M/N: MB-87), Bottom of the EUT in contact with the phantom





157.425MHz, Rotary belt clip(M/N: MB-87), Bottom of the EUT in contact with the phantom



157.425MHz, Rotary belt clip(M/N: MB-87), Bottom of the EUT in contact with the phantom

