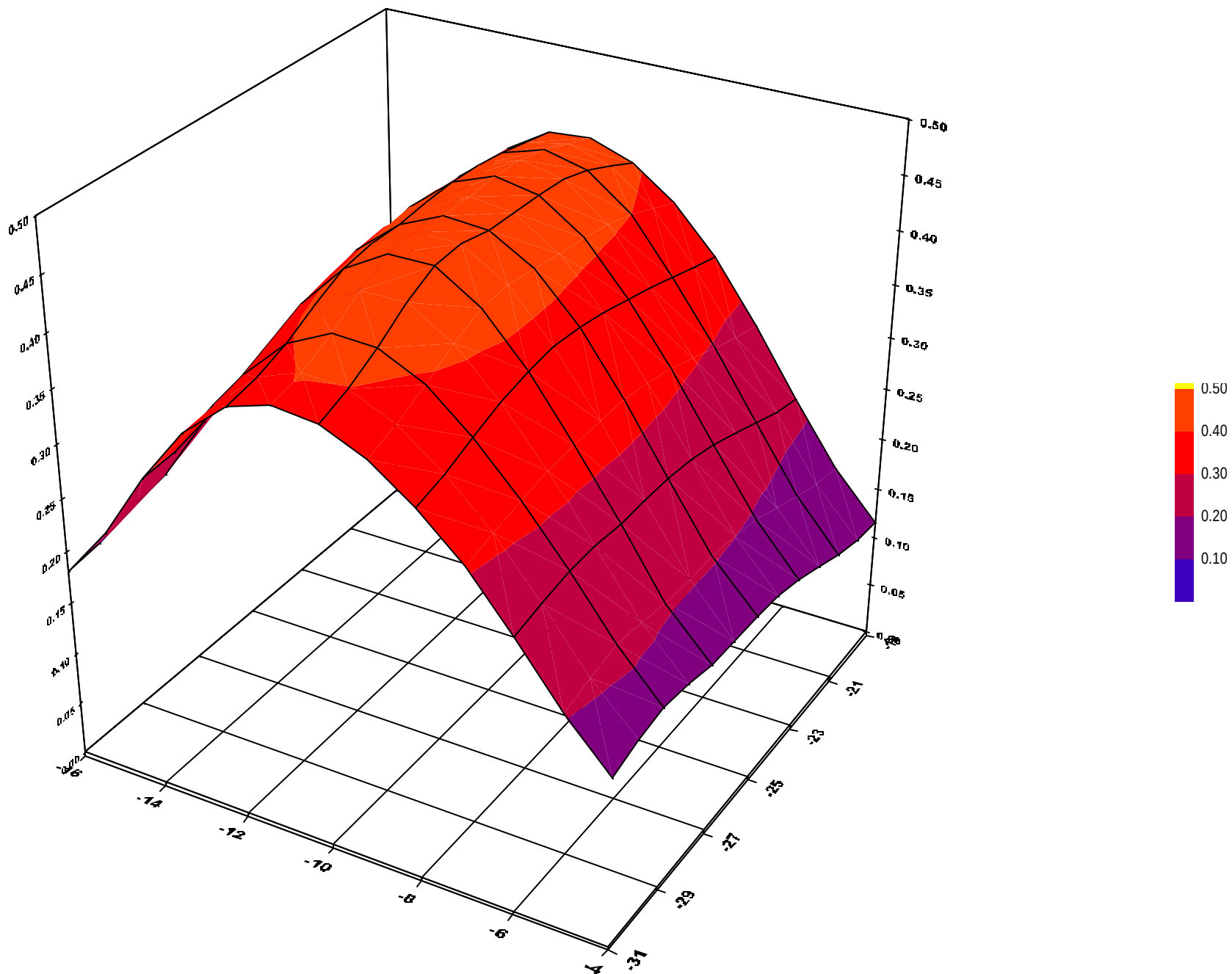
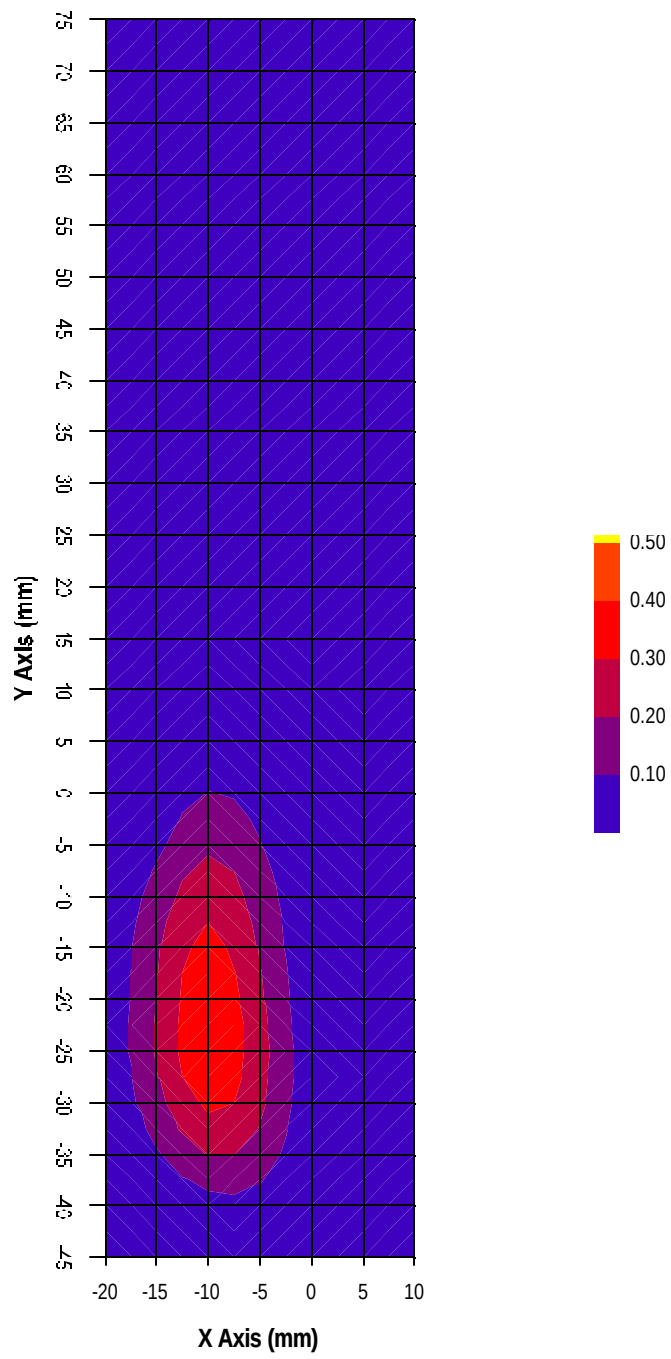
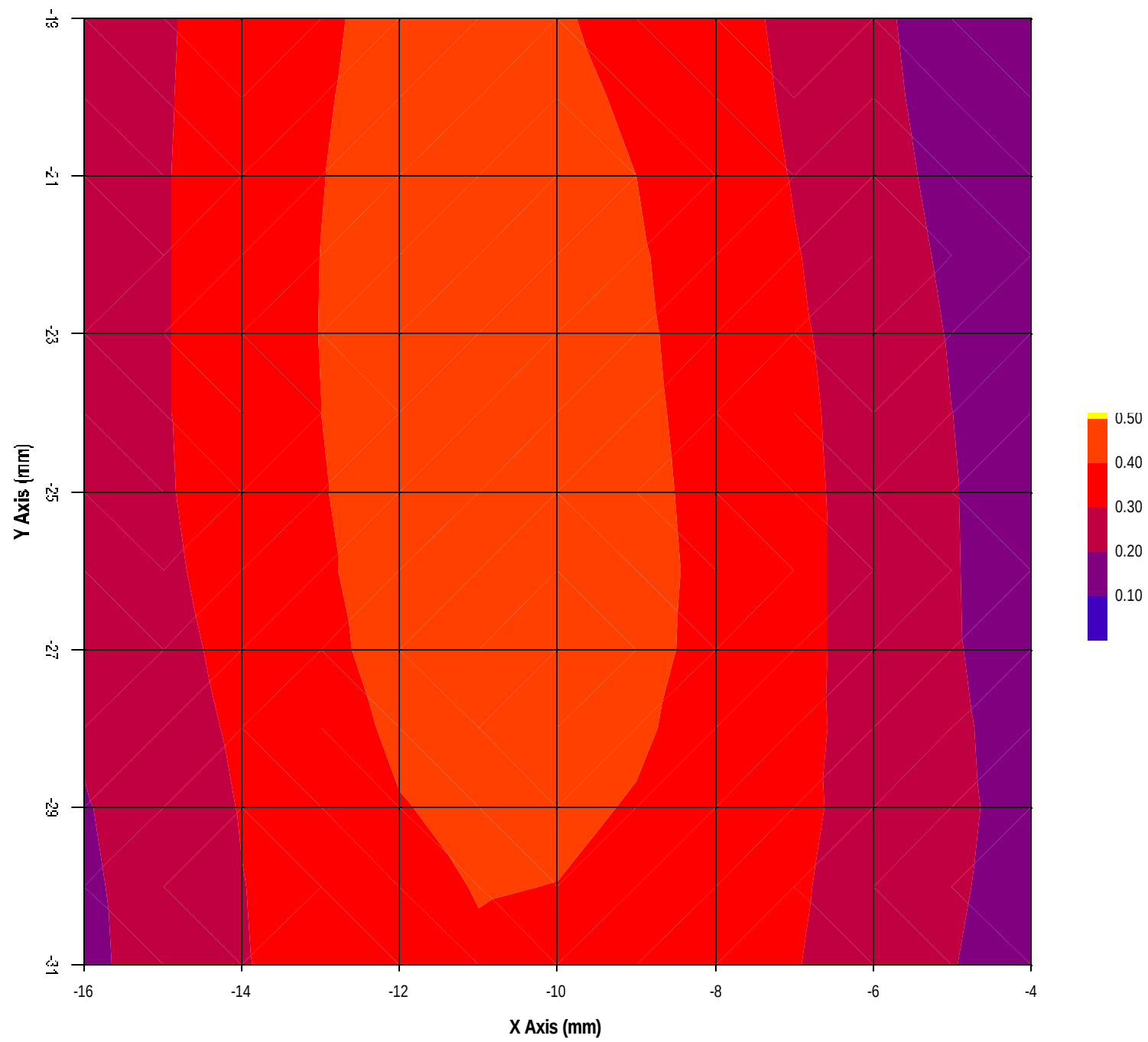
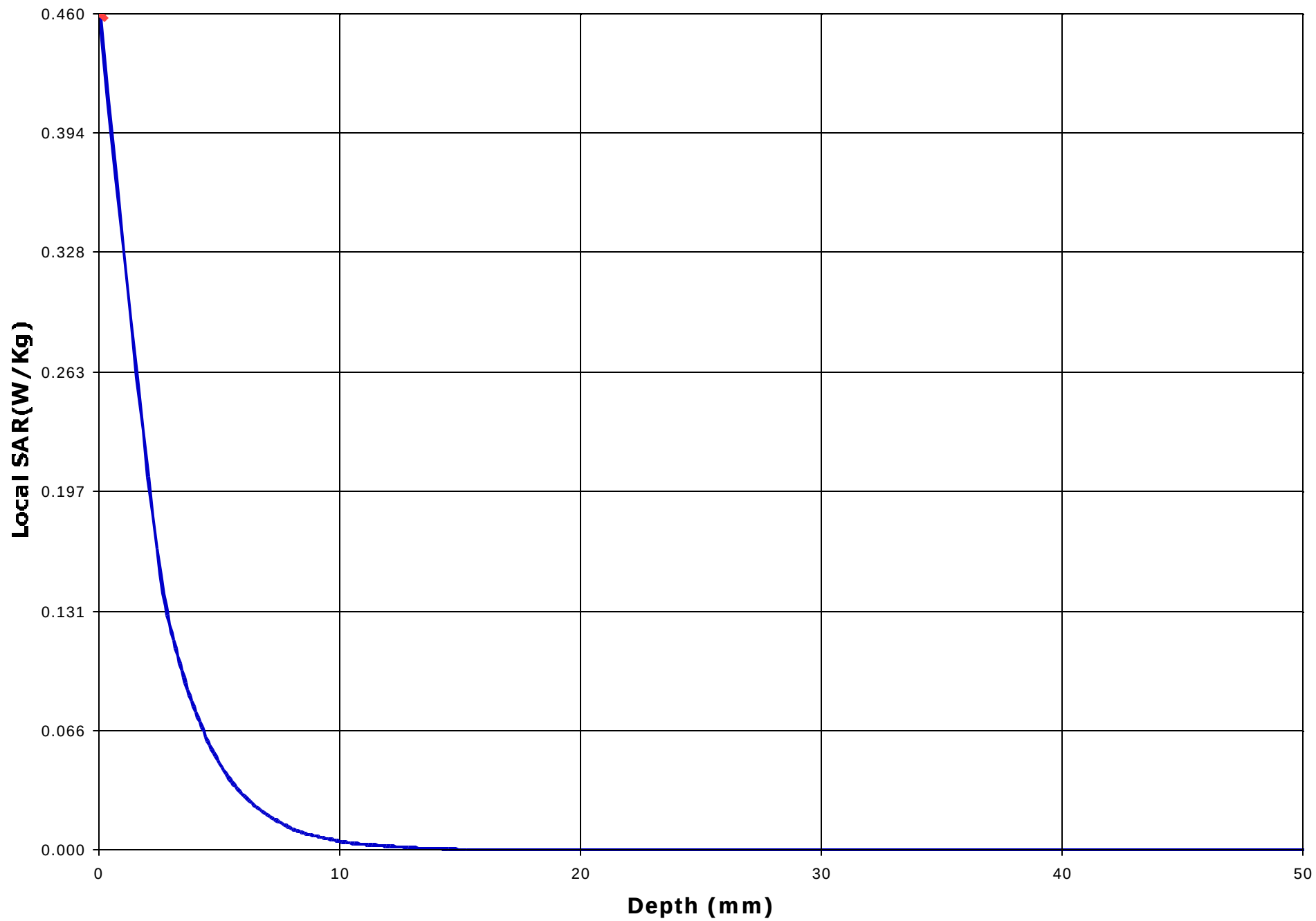
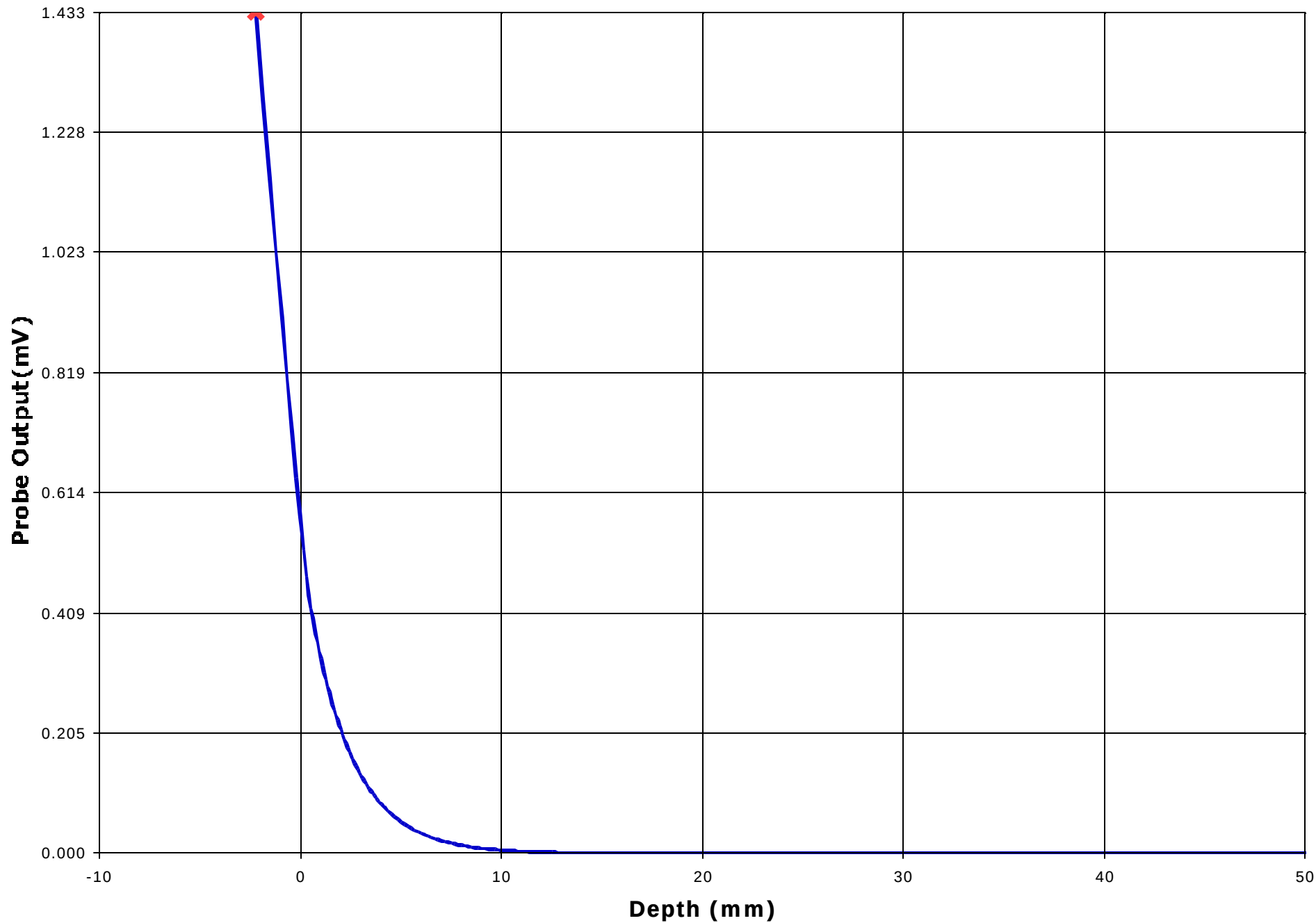












Test Information

Date : 26/10/2001

Time : 1:28:58 PM

Product : 2.4GHz FHSS Cordless Telephone

Manufacturer : Panasonic Canada Inc.

Model Number : KX-TD7690

Serial Number : N/A

FCC ID Number :

Test : SAR

Frequency (MHz) : 2440

EIRP (W) : 0.329

Antenna Type : Monopole

Signal : Spread Spectrum

Phantom : Waist

Simulated Tissue : Muscle

Dielectric Constant : 52.64

Conductivity : 1.98

Probe : UT-ETR-0200-1

Probe Offset (mm) : 2.250

Sensor Factor (mV) : 10.8

Conversion Factor : 3.467

Calibrated Date : 29/06/2001

Antenna Position : Retracted

Amplifier Setting :

Channel 1 : 0.0043

Channel 2 : 0.0042

Channel 3 : 0.0052

Location of Maximum Field :

X = 2

Y = 3

Measured Values (mV) :

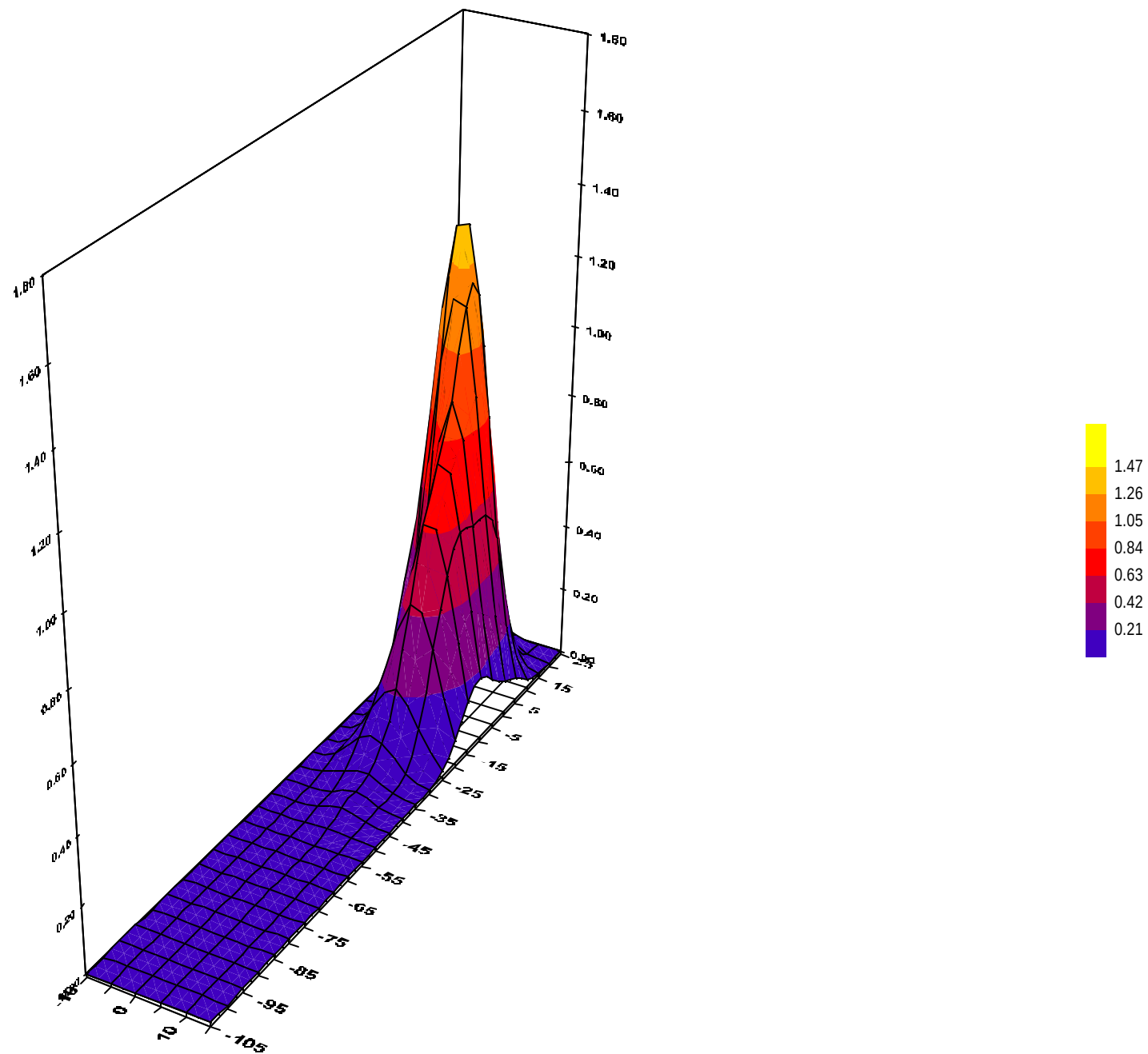
1.689 1.433 1.105 0.853 0.586 0.405

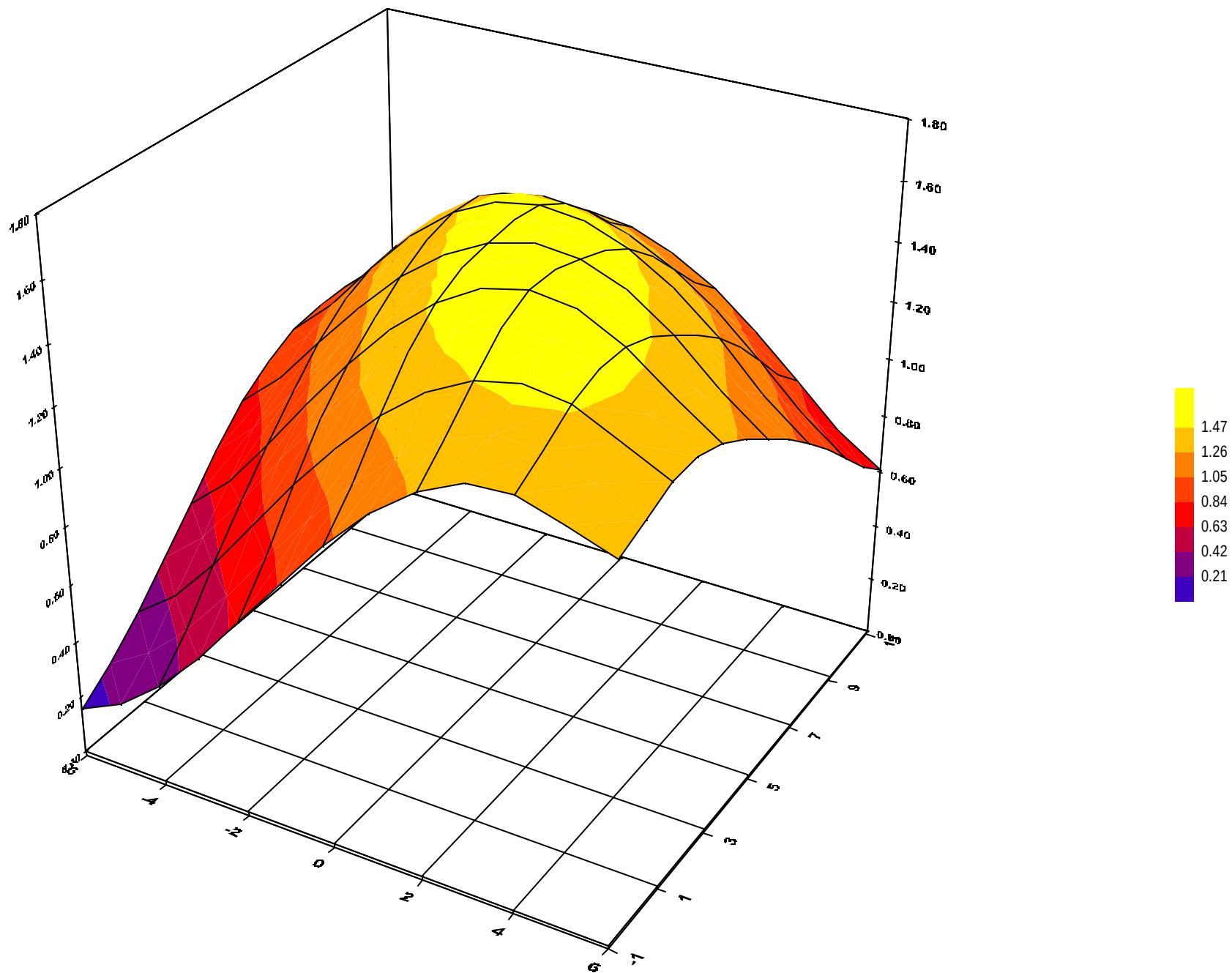
0.266 0.133 0.047 0.000 0.000

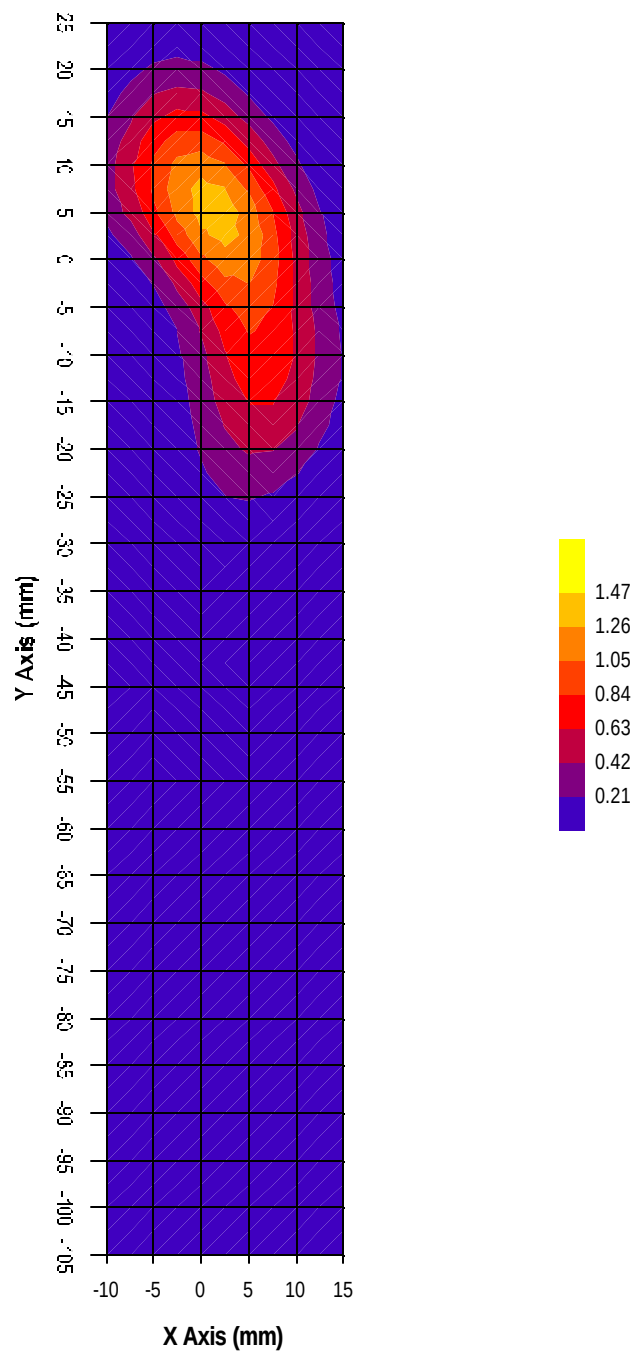
Peak Voltage (mV) : 3.141

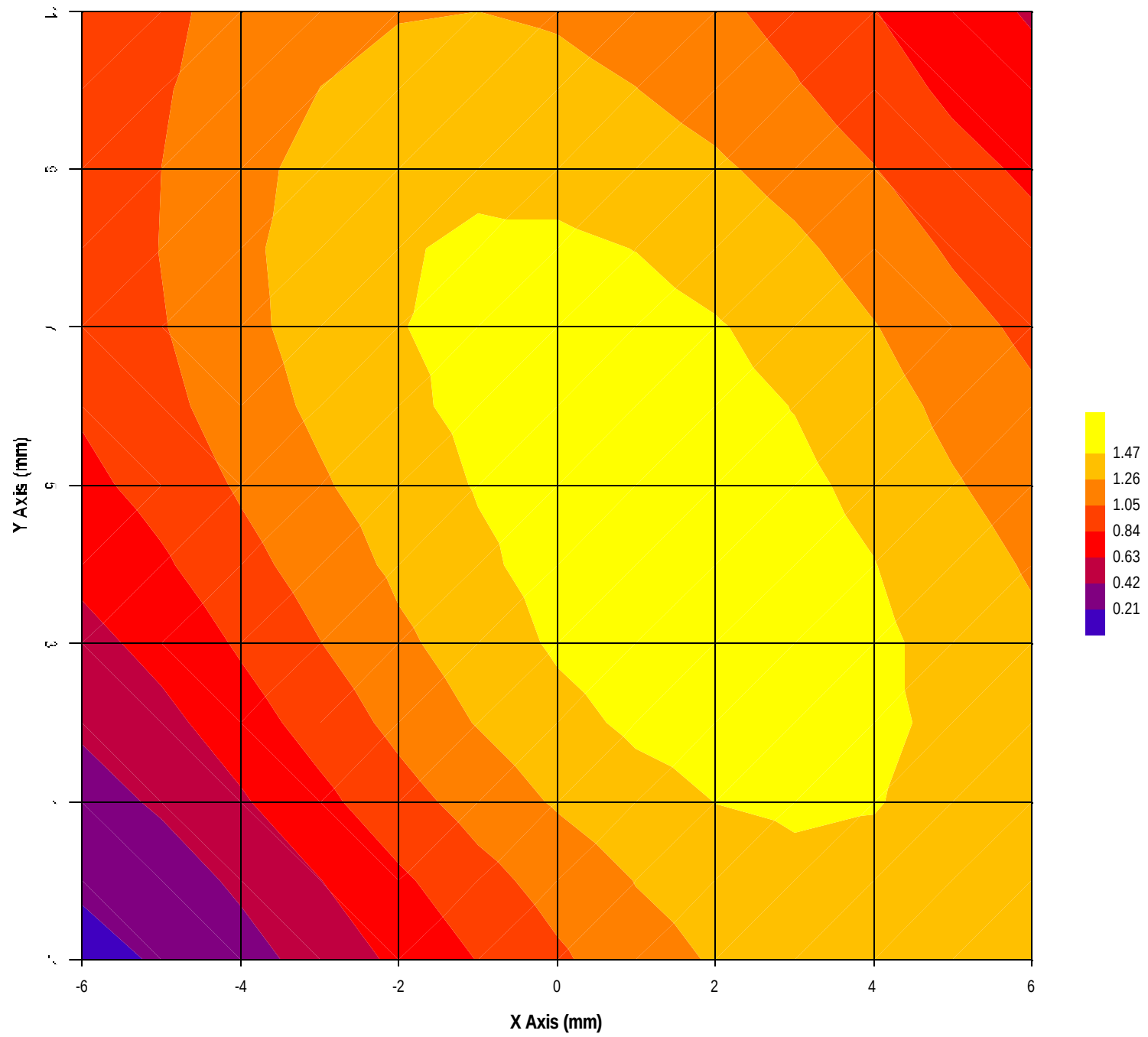
1 Cm Voltage (mV) : 0.199

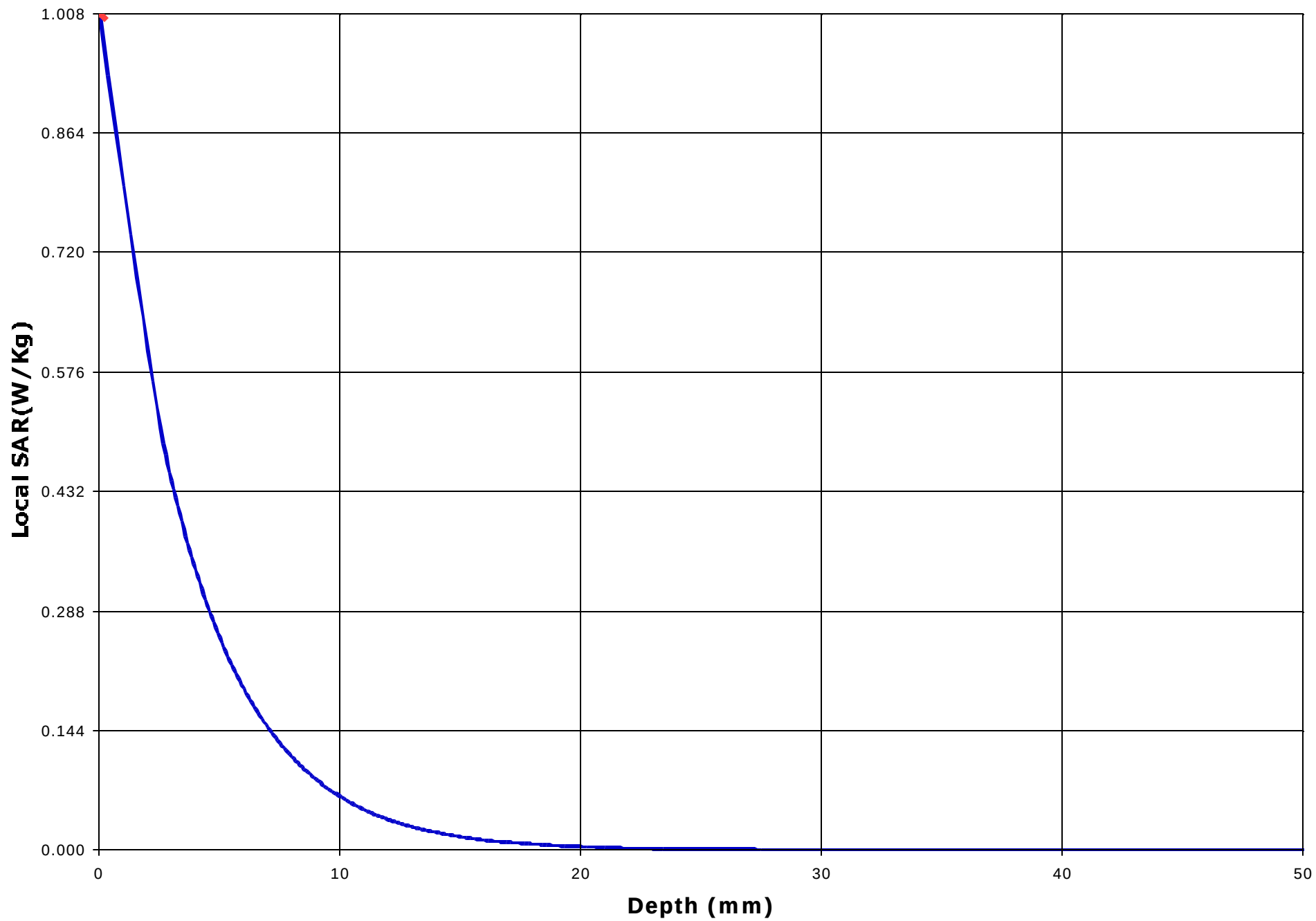
SAR (W/Kg) : 0.274

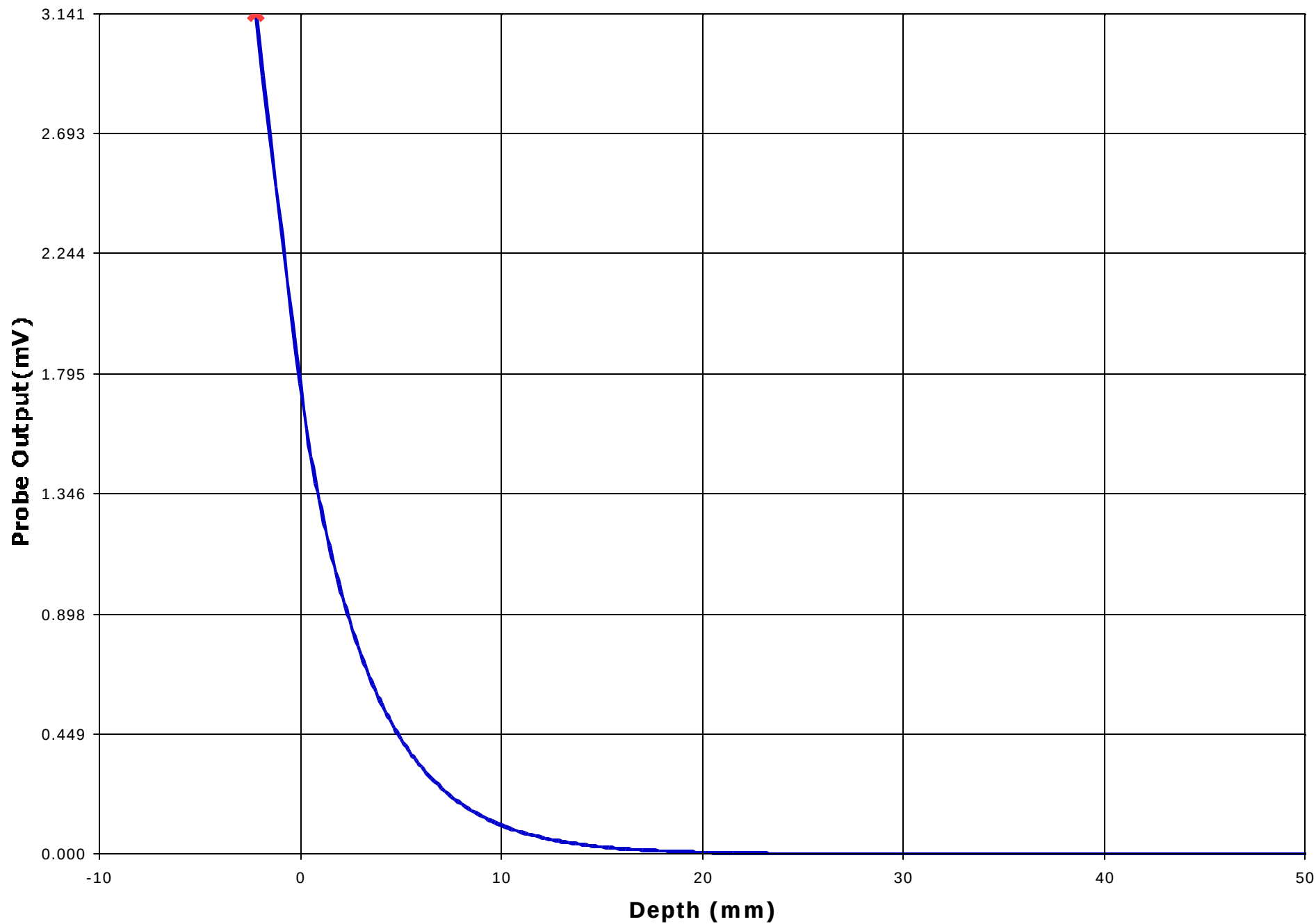












Test Information

Date : 26/10/2001

Time : 1:59:25 PM

Product	: 2.4GHz FHSS Cordless Telephone	Test	: SAR
Manufacturer	: Panasonic Canada Inc.	Frequency (MHz)	: 2440
Model Number	: KX-TD7690	EIRP (W)	: 0.329
Serial Number	: N/A	Antenna Type	: Monopole
FCC ID Number	:	Signal	: Spread Spectrum

Phantom	: Waist	Dielectric Constant	: 52.64
Simulated Tissue	: Muscle	Conductivity	: 1.98

Probe	: UT-ETR-0200-1	Antenna Position	: Extended
Probe Offset (mm)	: 2.250		
Sensor Factor (mV)	: 10.8		
Conversion Factor	: 3.467		
Calibrated Date	: 29/06/2001		

Amplifier Setting :

Channel 1 : 0.0043 Channel 2 : 0.0042 Channel 3 : 0.0052

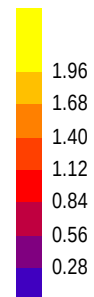
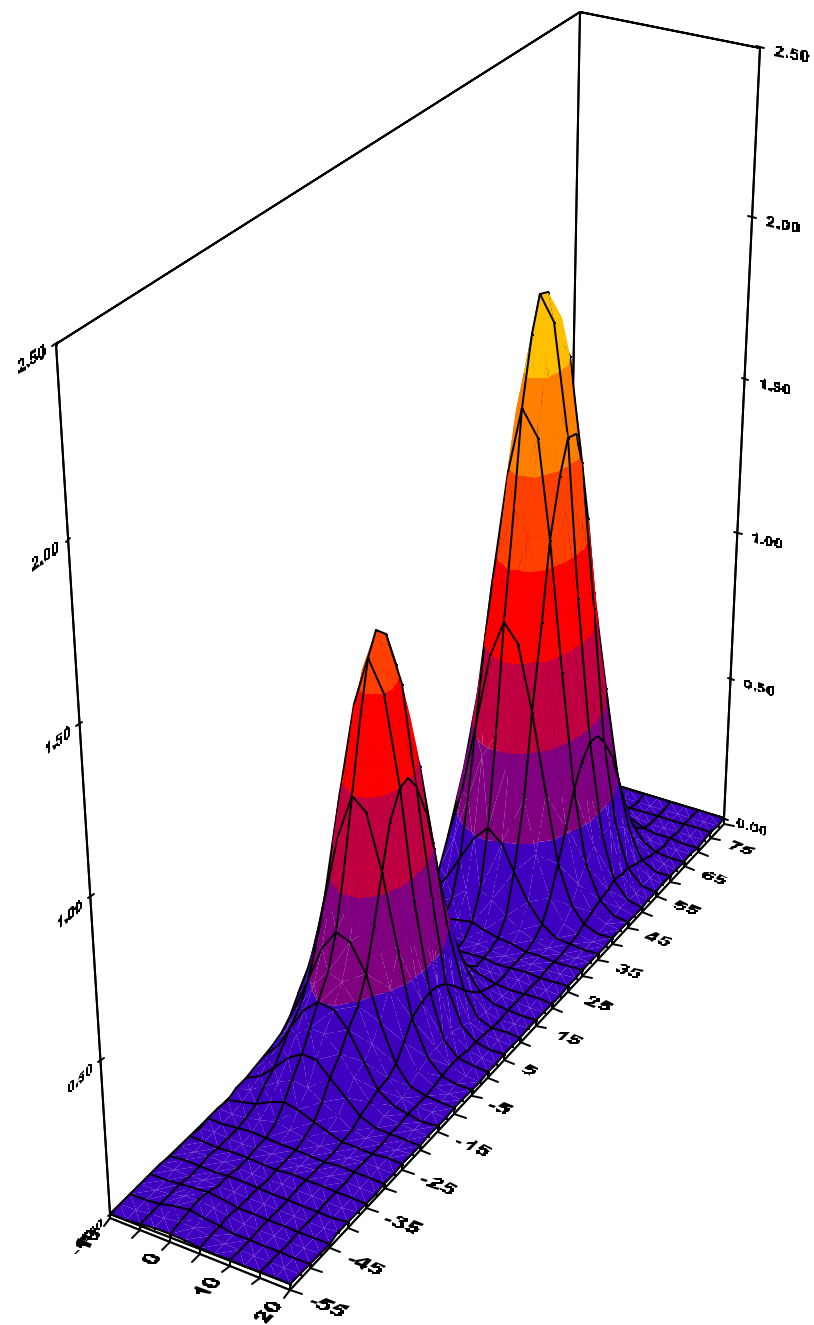
Location of Maximum Field :

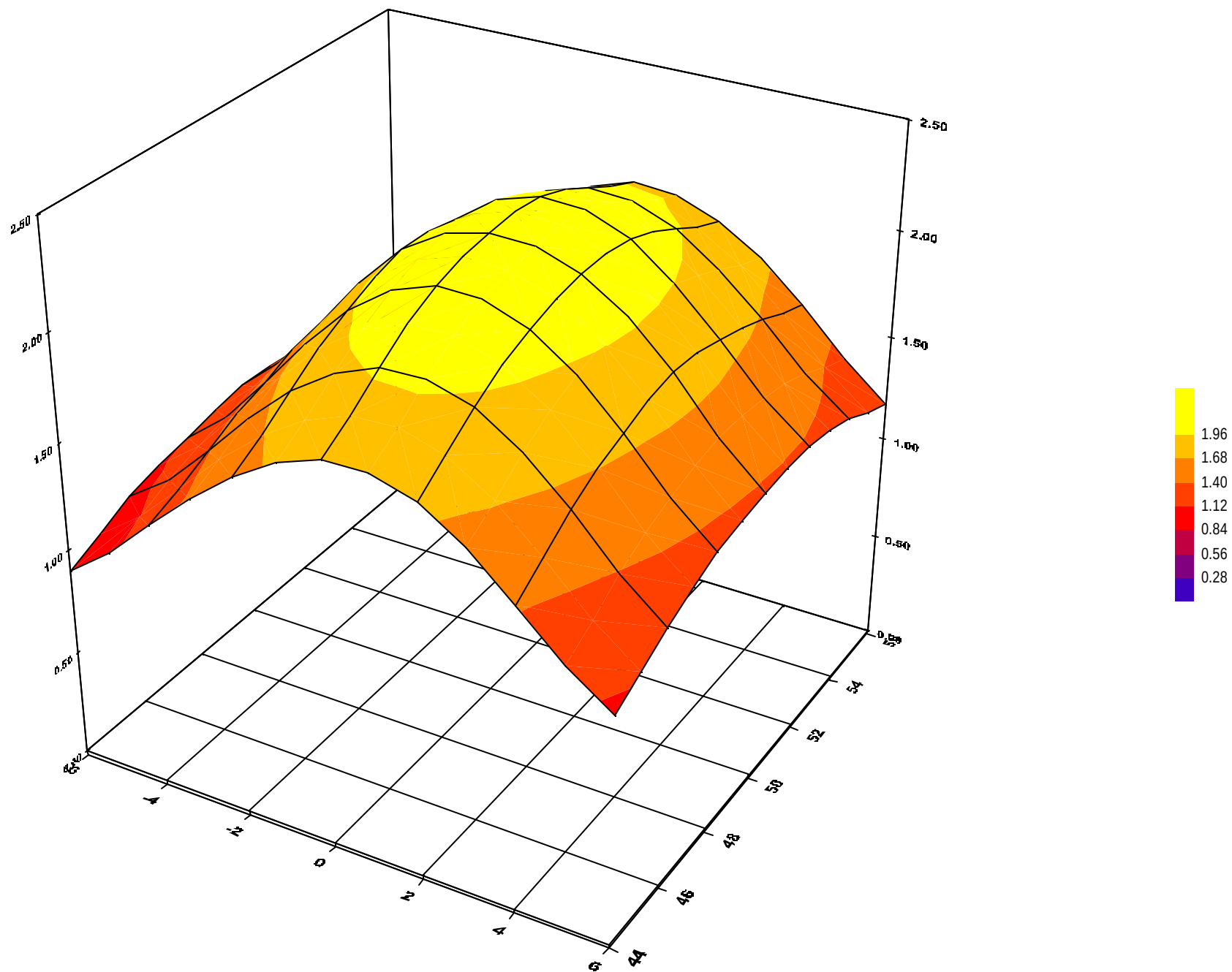
X = 0 Y = 52

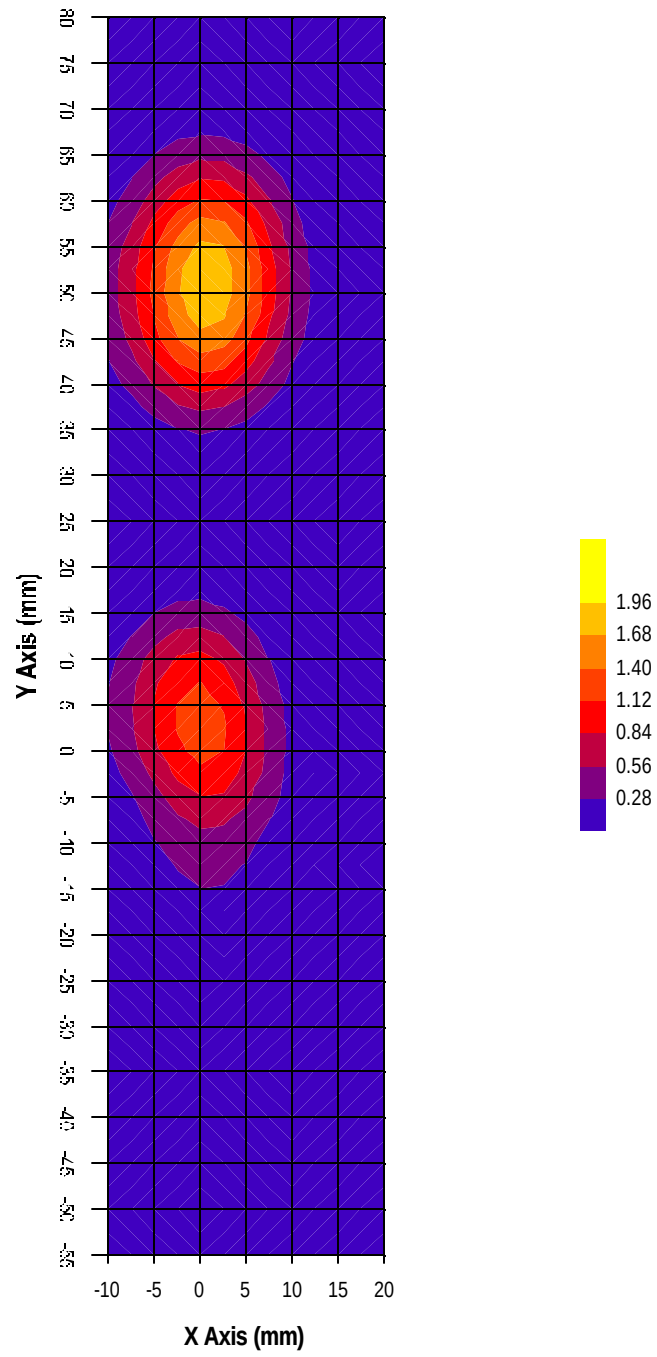
Measured Values (mV) :

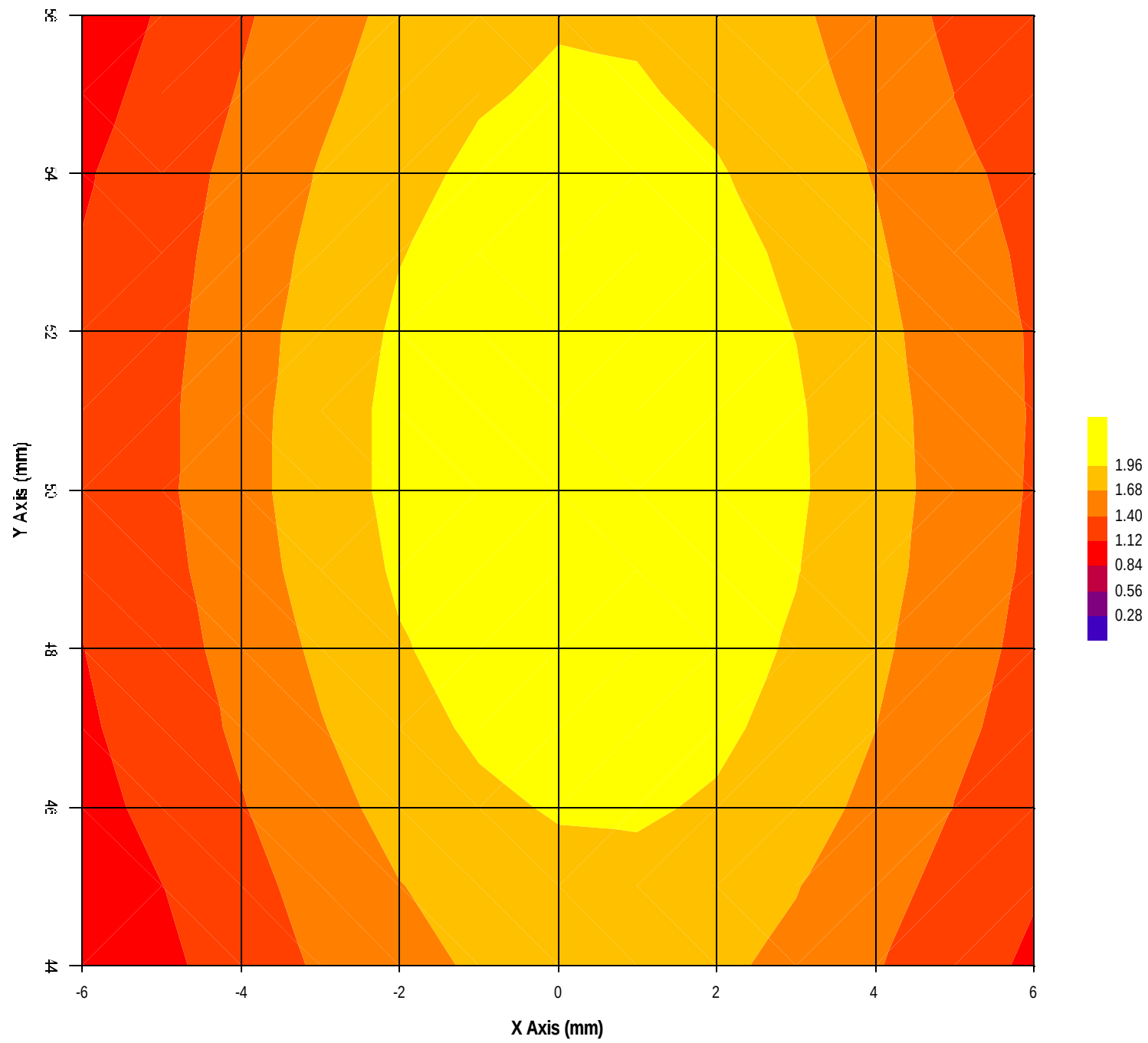
2.247	1.890	1.463	1.126	0.846	0.647
0.484	0.353	0.280	0.208	0.144	

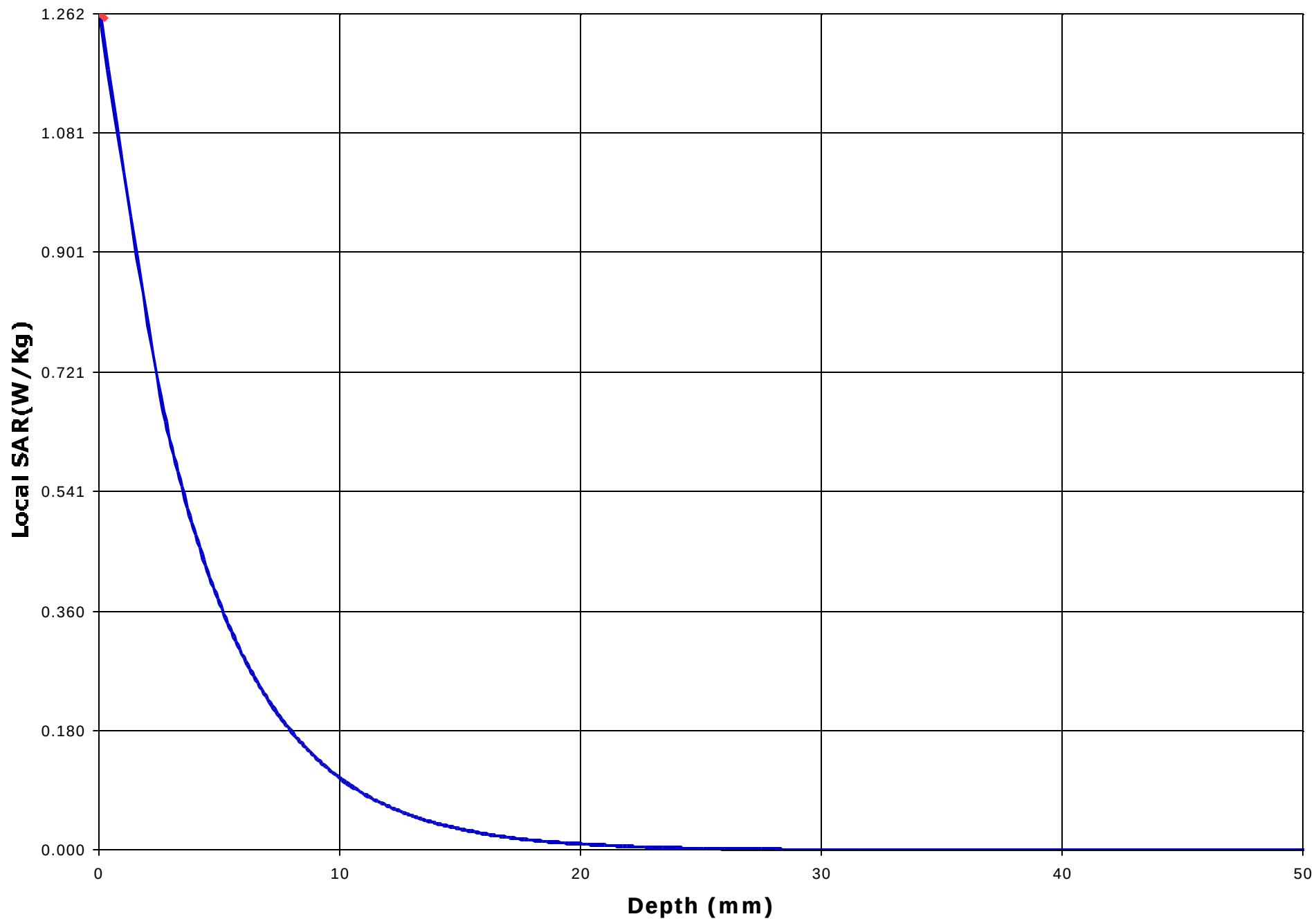
Peak Voltage (mV)	: 3.930	1 Cm Voltage (mV)	: 0.336	SAR (W/Kg)	: 0.390
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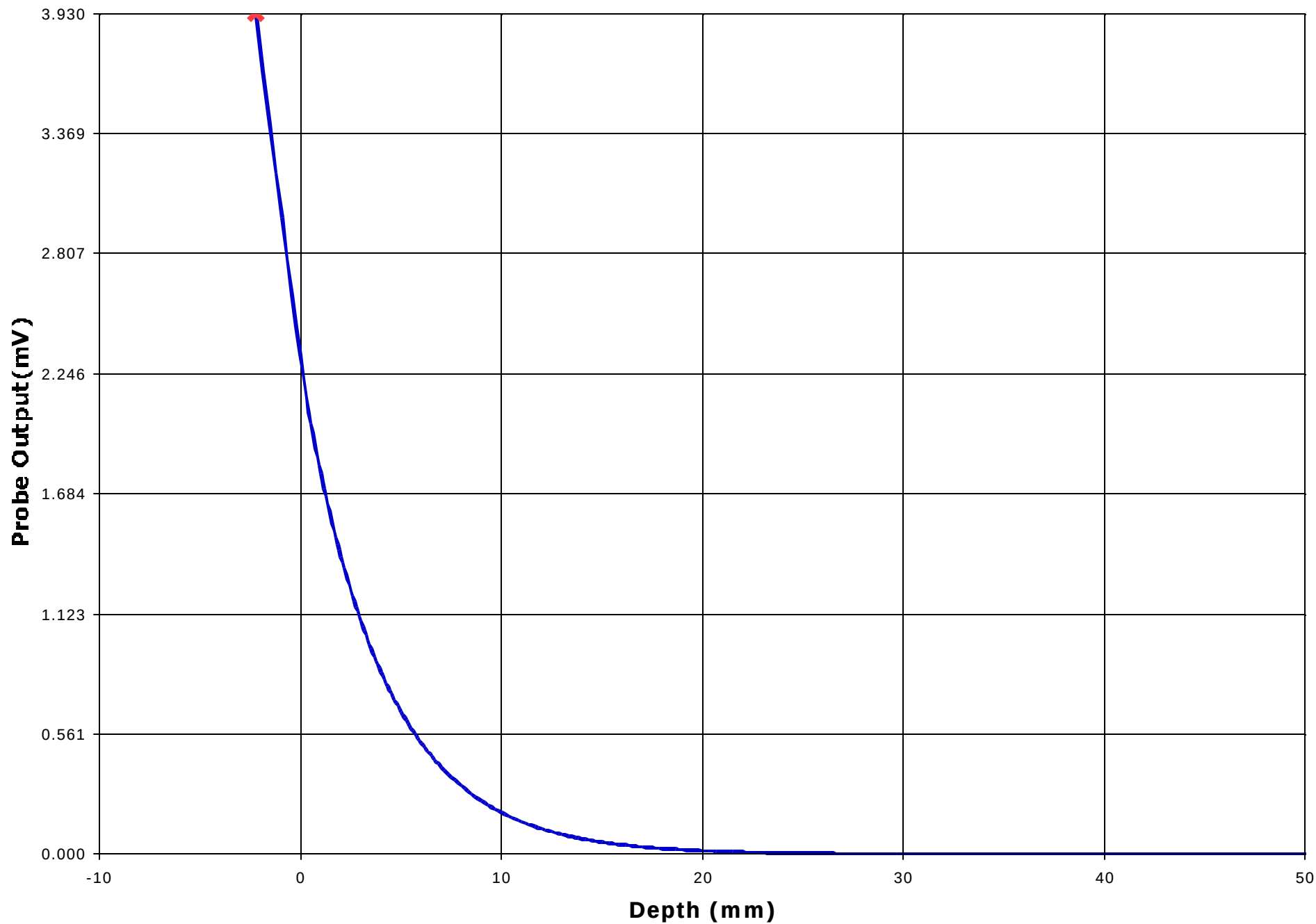


EXHIBIT 8. PRESCAN RESULTS OF HEAD CONFIGURATION AT 2441.0 MHZ

Prescan results of Head configuration at 2441.0 MHz are presented in following order:

Test Configuration	Antenna Position	SAR (W/Kg)	Location of hot spot (mm) * Center of ear piece as reference point (0, 0)
Right Head Tilt Position	Retracted	0.138	(-13, 5)
	Extended	0.057	(-12, 51)
Right Head Cheek Position	Retracted	0.085	(-12, 3)
	Extended	0.000	(0, 0)
Left Head Tilt Position	Retracted	0.059	(-7, 8)
	Extended	0.026	(-5, 55)
Left Head Cheek Position	Retracted	0.019	(-10, 8)
	Extended	0.000	N/A

ULTRATECH GROUP OF LABS

3000 Bristol Circle, Oakville, Ontario, Canada L6H 6G4

Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: yhk.ultratech@sympatico.ca, Website: <http://www.ultratech-labs.com>**File #: PAN-005-SAR**
November 14, 2001

- Assessed by ITI (UK) Competent Body, NVLAP (USA) Accreditation Body & ACA/AUSTEL (Australia), VCCI (Japan)
- Accredited by Industry Canada (Canada) under ACC-LAB (Europe/Canada MRA and APEC/Canada MRA)
- Recognized/Listed by FCC (USA)
- All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

Test Information

Date : 02/11/2001
Time : 1:25:02 PM

<u>Product</u>	: 2.4GHz FHSS Cordless	<u>Test</u>	: SAR
<u>Manufacturer</u>	: Panasonic Canada Inc.	<u>Frequency (MHz)</u>	: 2440
<u>Model Number</u>	: KX-TD7690	<u>EIRP (W)</u>	: 0.329
<u>Serial Number</u>	: N/A	<u>Antenna Type</u>	: Monopole
<u>FCC ID Number</u>	:	<u>Signal</u>	: CW

<u>Phantom</u>	: Head - Right Ear	<u>Dielectric Constant</u>	: 38.70
<u>Simulated Tissue</u>	: Brain	<u>Conductivity</u>	: 2.01

<u>Probe</u>	: UT-ETR-0200-1	<u>Antenna Position</u>	: Retracted
<u>Probe Offset (mm)</u>	: 2.250	<u>Measured Power (W)</u>	:
<u>Sensor Factor (mV)</u>	: 10.8	(conducted)	
<u>Conversion Factor</u>	: 4.482	<u>Cable Insertion Loss (dB)</u>	:
<u>Calibrated Date</u>	: 24/10/2001	<u>Compensated Power (W)</u>	: 0.000

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0045 Channel 3 : 0.0056

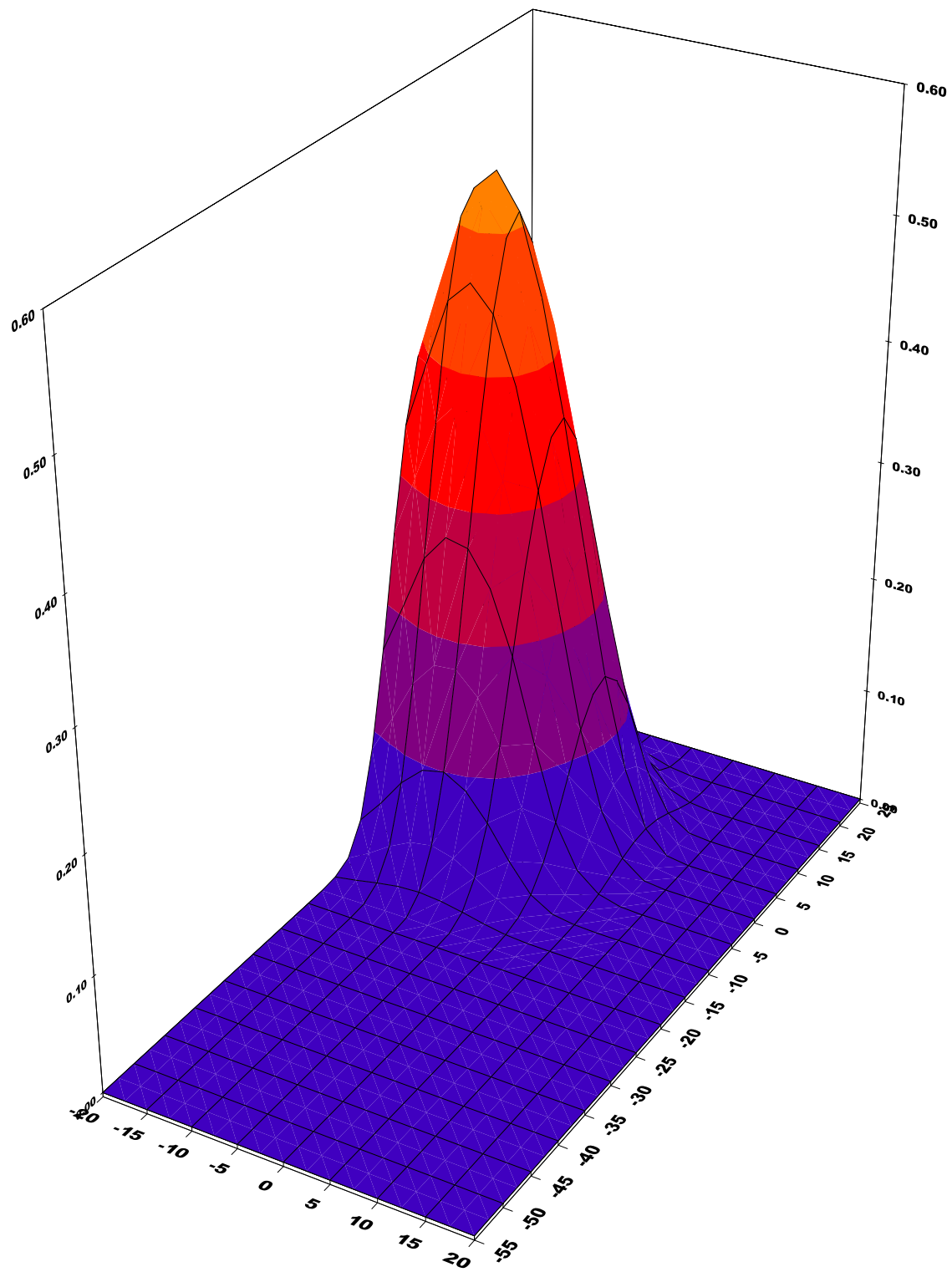
Location of Maximum Field :

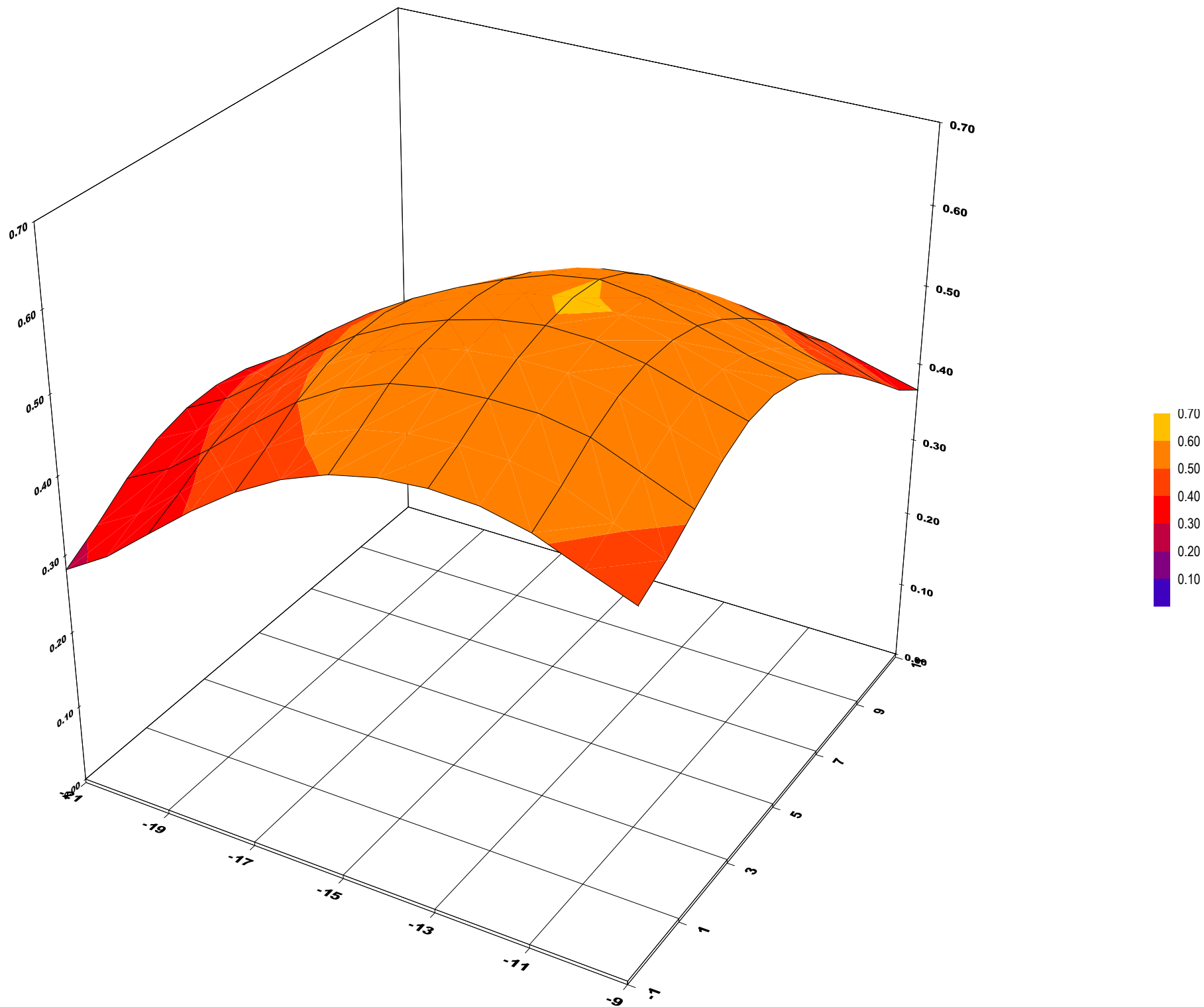
X = -13 Y = 5

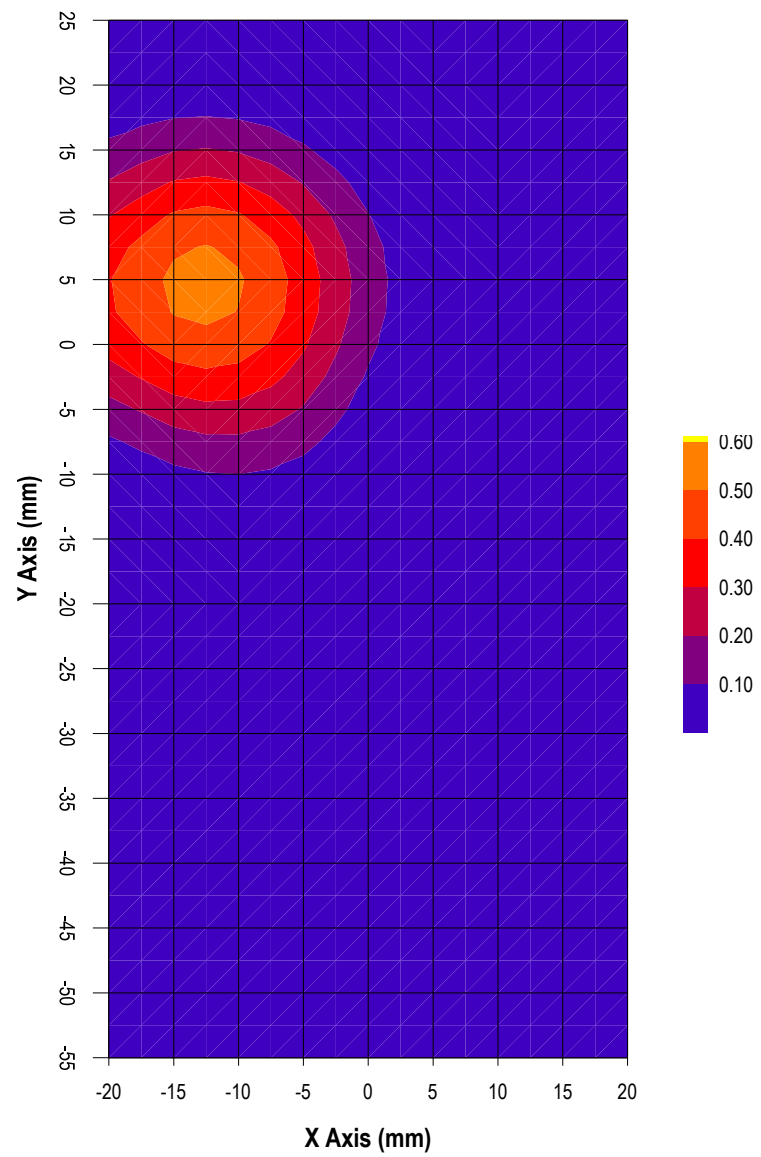
Measured Values (mV) :

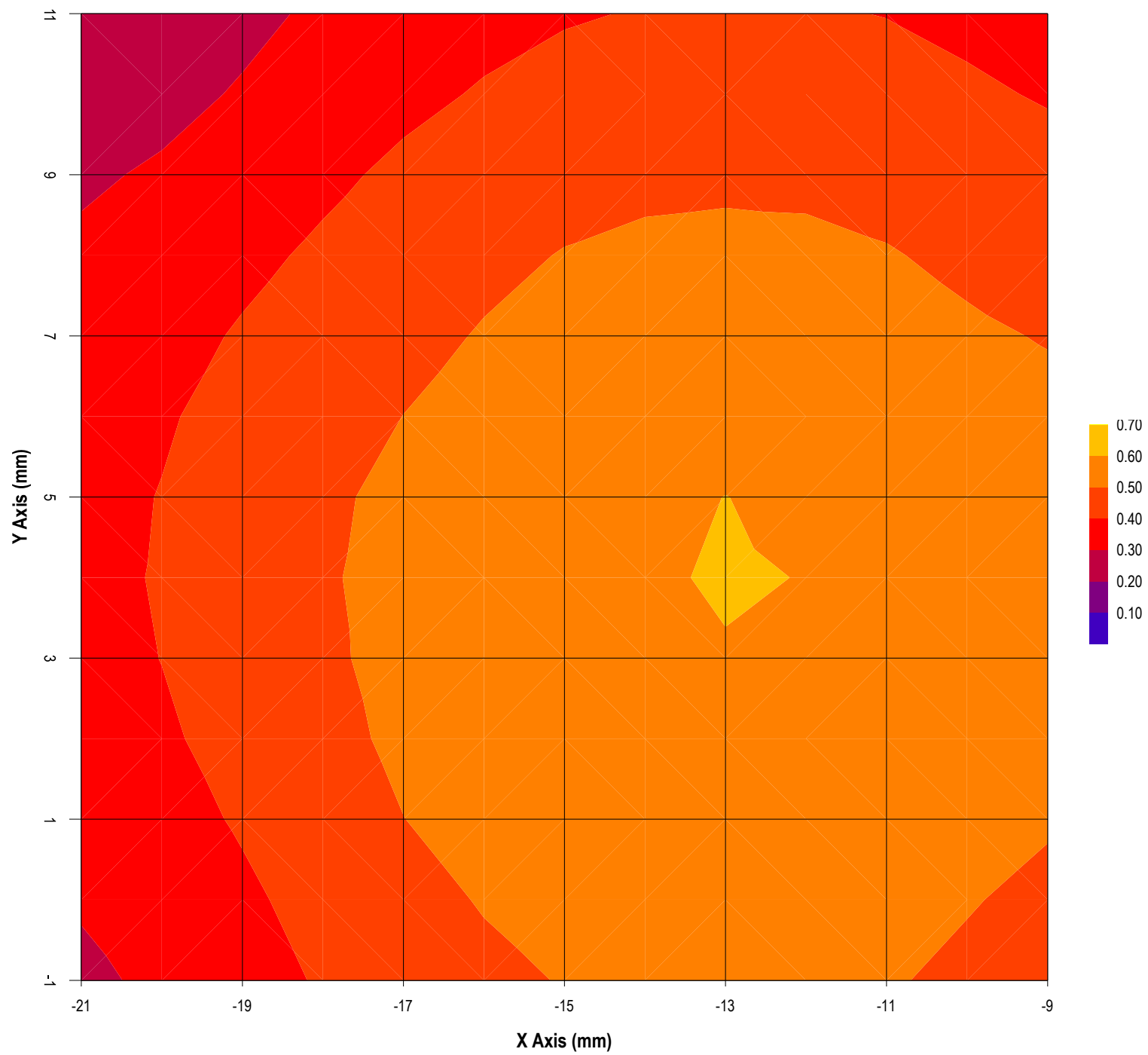
0.581	0.482	0.356	0.257	0.180	0.113
0.050	0.000	0.000	0.000	0.000	

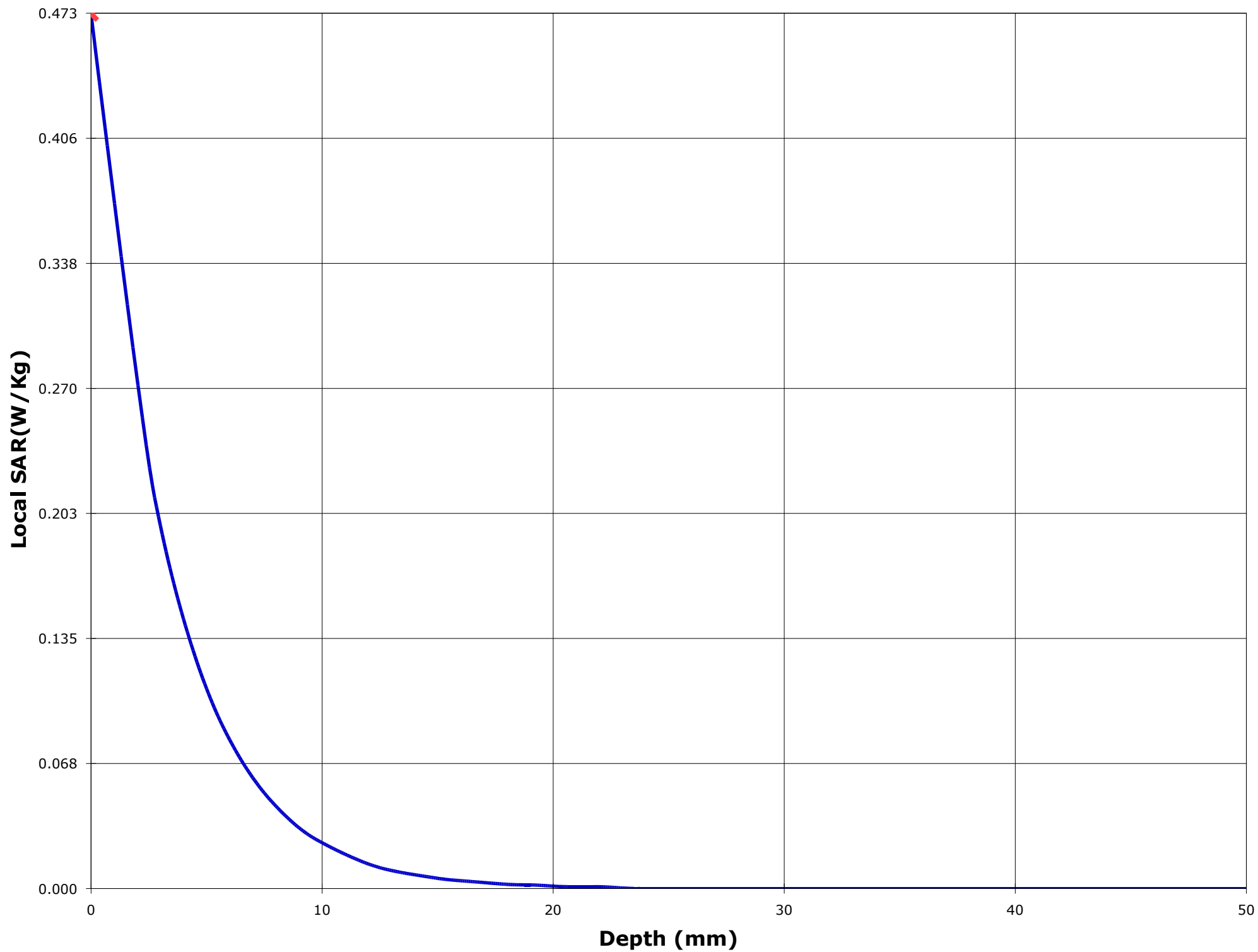
<u>Peak Voltage (mV)</u>	: 1.140	<u>1 Cm Voltage (mV)</u>	: 0.058	<u>SAR (W/Kg)</u>	: 0.138
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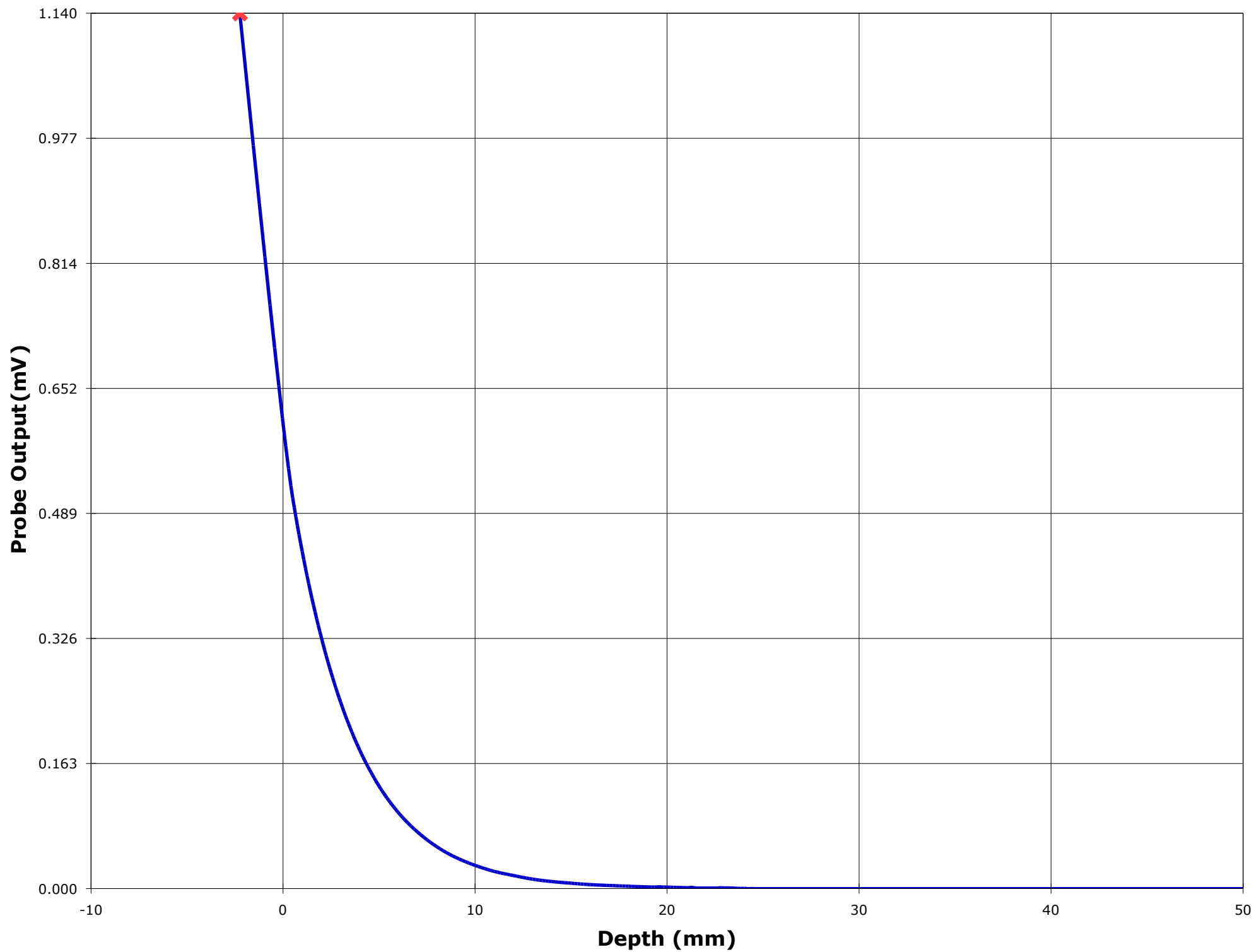












Test Information

Date : 02/11/2001
Time : 2:10:35 PM

<u>Product</u>	: 2.4GHz FHSS Cordless	<u>Test</u>	: SAR
<u>Manufacturer</u>	: Panasonic Canada Inc.	<u>Frequency (MHz)</u>	: 2440
<u>Model Number</u>	: KX-TD7690	<u>EIRP (W)</u>	: 0.329
<u>Serial Number</u>	: N/A	<u>Antenna Type</u>	: Monopole
<u>FCC ID Number</u>	:	<u>Signal</u>	: CW

<u>Phantom</u>	: Head - Right Ear	<u>Dielectric Constant</u>	: 38.70
<u>Simulated Tissue</u>	: Brain	<u>Conductivity</u>	: 2.01

<u>Probe</u>	: UT-ETR-0200-1	<u>Antenna Position</u>	: Extended
<u>Probe Offset (mm)</u>	: 2.250	<u>Measured Power (W)</u>	:
<u>Sensor Factor (mV)</u>	: 10.8	(conducted)	
<u>Conversion Factor</u>	: 4.482	<u>Cable Insertion Loss (dB)</u>	:
<u>Calibrated Date</u>	: 24/10/2001	<u>Compensated Power (W)</u>	: 0.000

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0045 Channel 3 : 0.0056

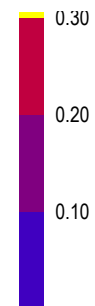
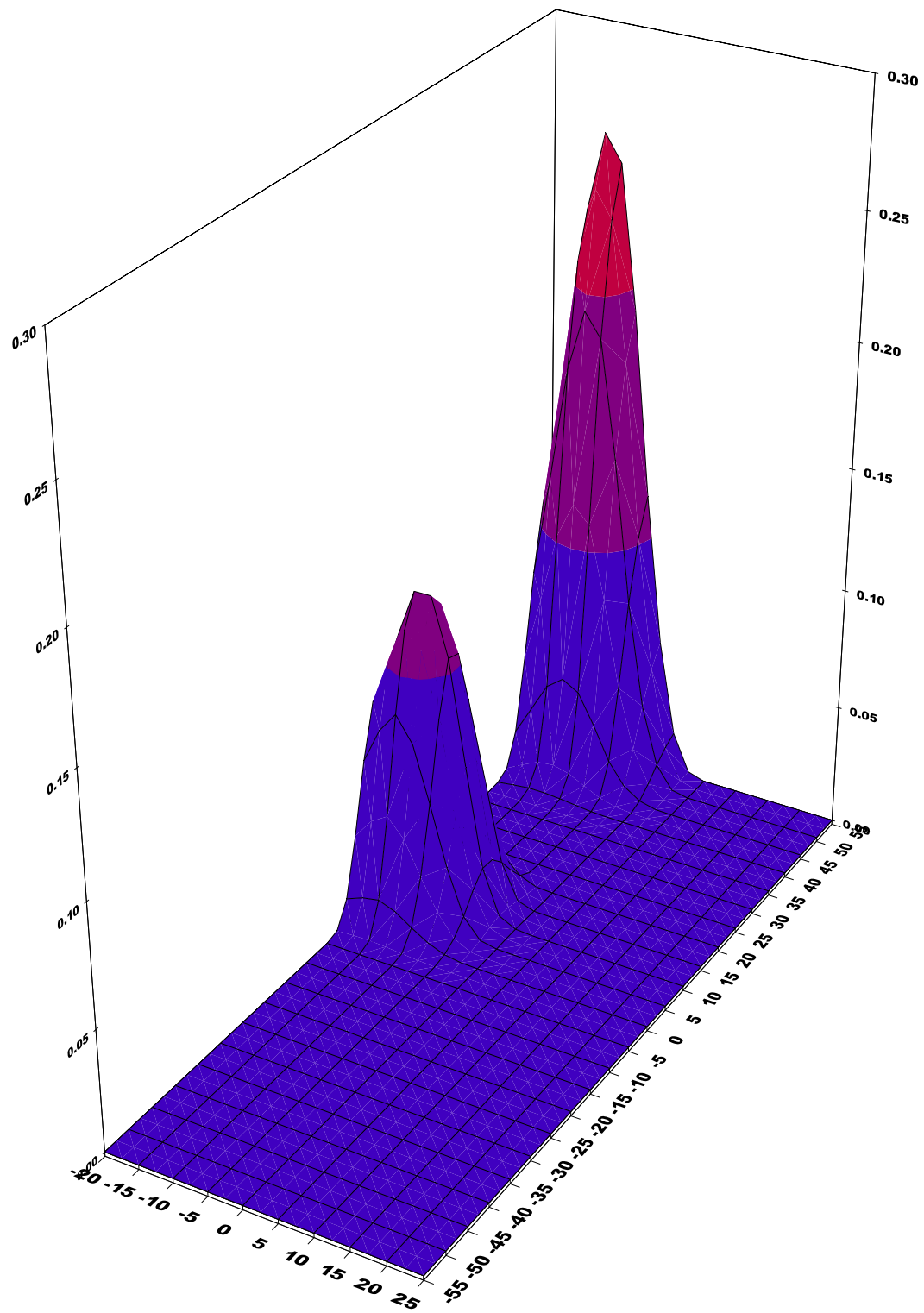
Location of Maximum Field :

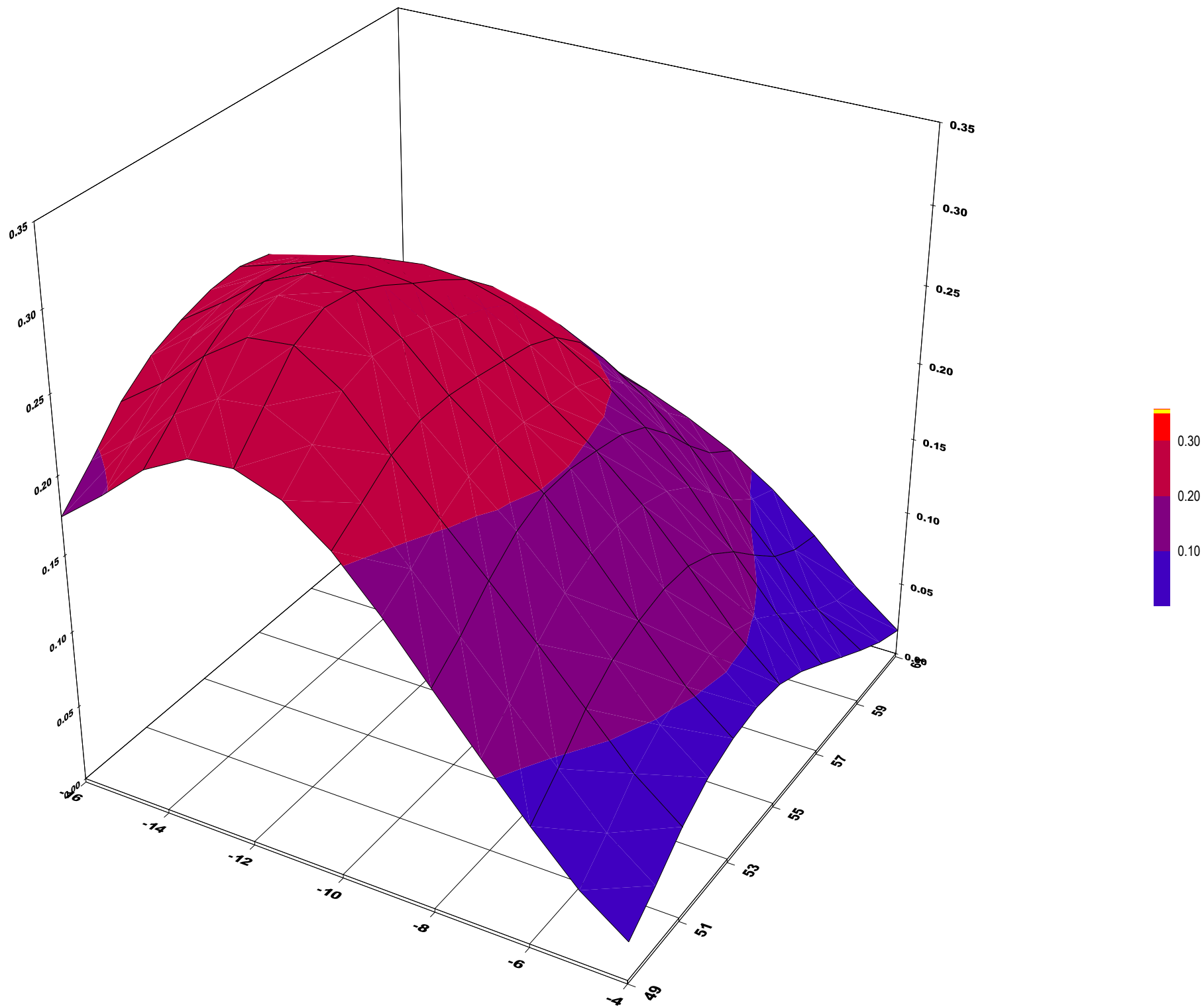
X = -12 Y = 51

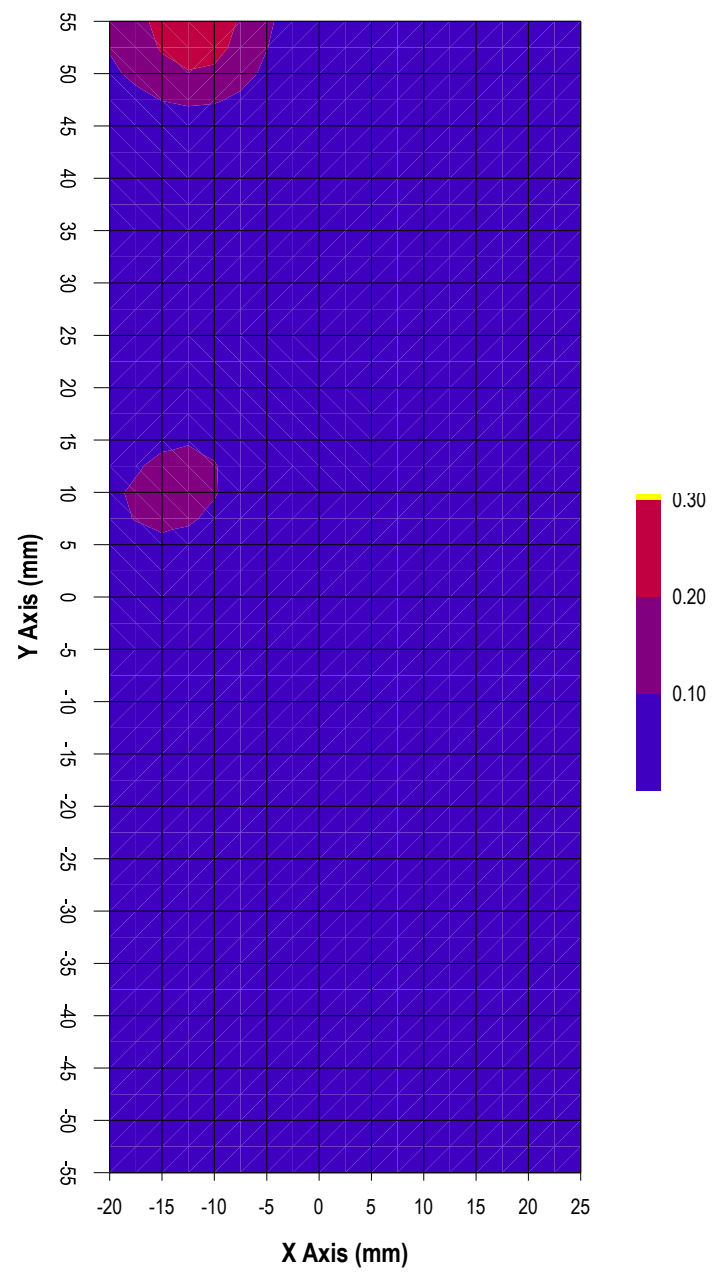
Measured Values (mV) :

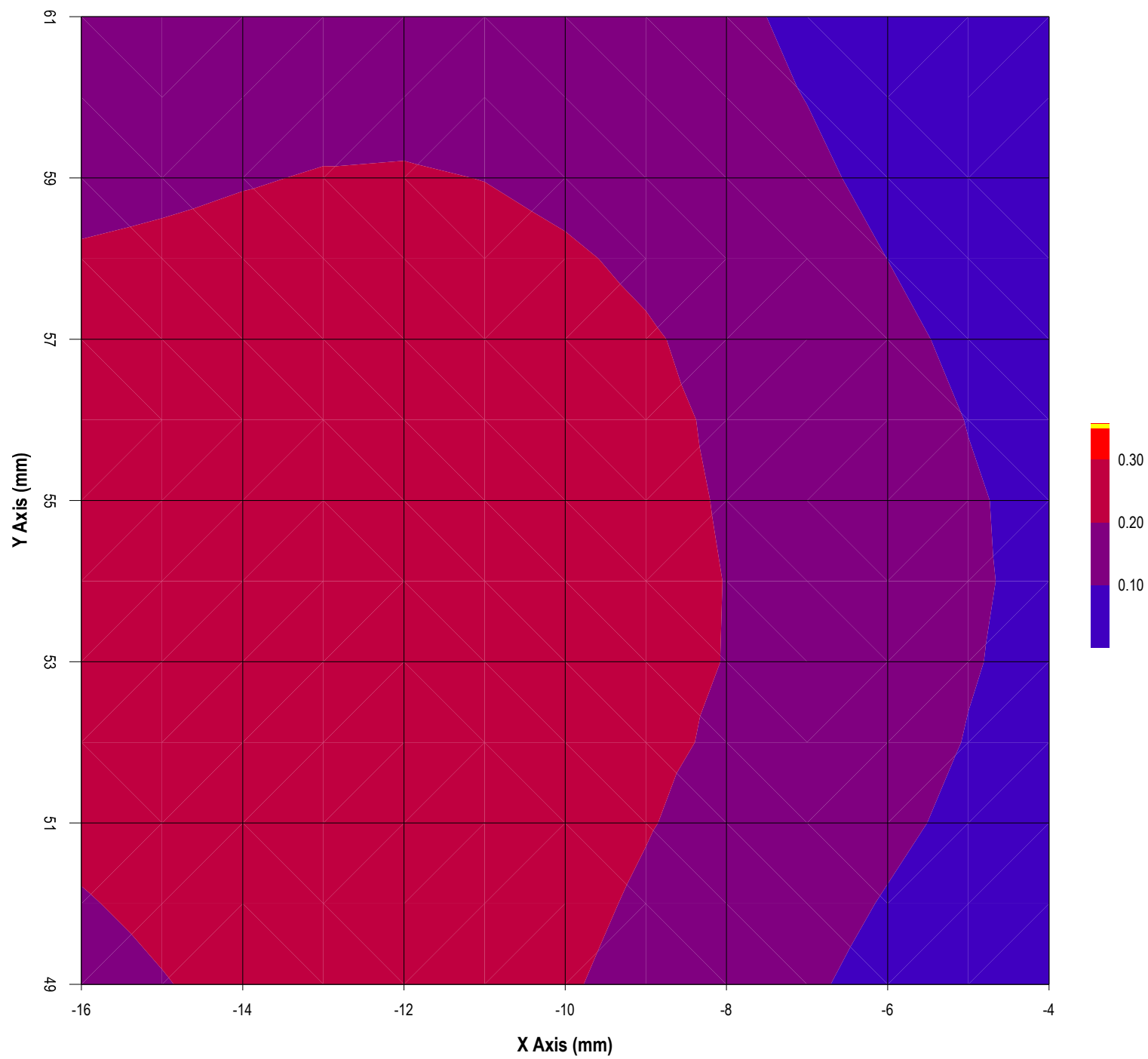
0.283	0.220	0.129	0.073	0.000	0.000
0.000	0.000	0.000	0.000	0.000	

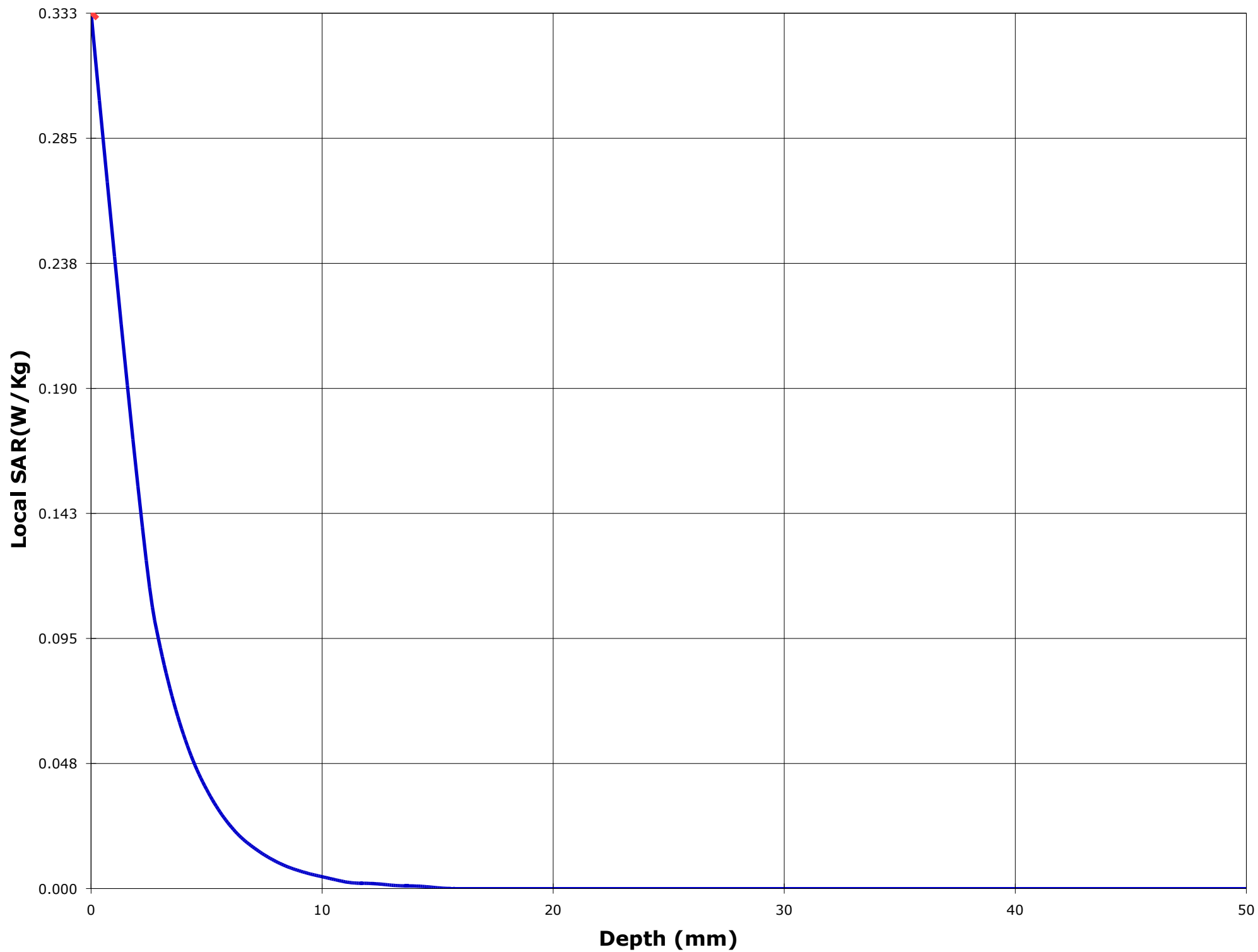
<u>Peak Voltage (mV)</u>	: 0.801	<u>1 Cm Voltage (mV)</u>	: 0.010	<u>SAR (W/Kg)</u>	: 0.057
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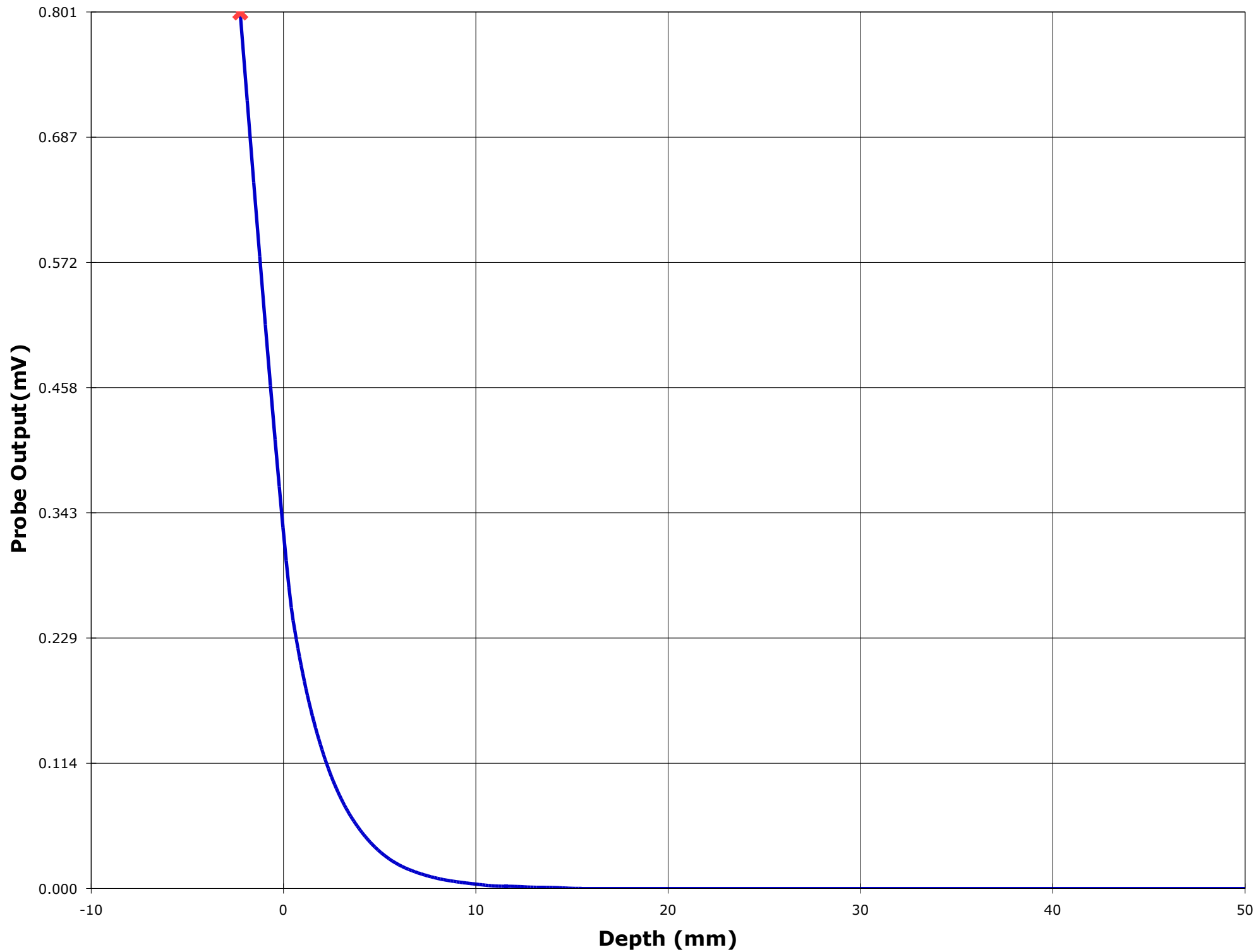












Test Information

Date : 02/11/2001
Time : 12:29:29 PM

<u>Product</u>	: 2.4GHz FHSS Cordless	<u>Test</u>	: SAR
<u>Manufacturer</u>	: Panasonic Canada Inc.	<u>Frequency (MHz)</u>	: 2440
<u>Model Number</u>	: KX-TD7690	<u>EIRP (W)</u>	: 0.329
<u>Serial Number</u>	: N/A	<u>Antenna Type</u>	: Monopole
<u>FCC ID Number</u>	:	<u>Signal</u>	: CW

<u>Phantom</u>	: Head - Right Ear	<u>Dielectric Constant</u>	: 38.70
<u>Simulated Tissue</u>	: Brain	<u>Conductivity</u>	: 2.01

<u>Probe</u>	: UT-ETR-0200-1	<u>Antenna Position</u>	: Retracted
<u>Probe Offset (mm)</u>	: 2.250	<u>Measured Power (W)</u>	:
<u>Sensor Factor (mV)</u>	: 10.8	(conducted)	
<u>Conversion Factor</u>	: 4.482	<u>Cable Insertion Loss (dB)</u>	:
<u>Calibrated Date</u>	: 24/10/2001	<u>Compensated Power (W)</u>	: 0.000

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0045 Channel 3 : 0.0056

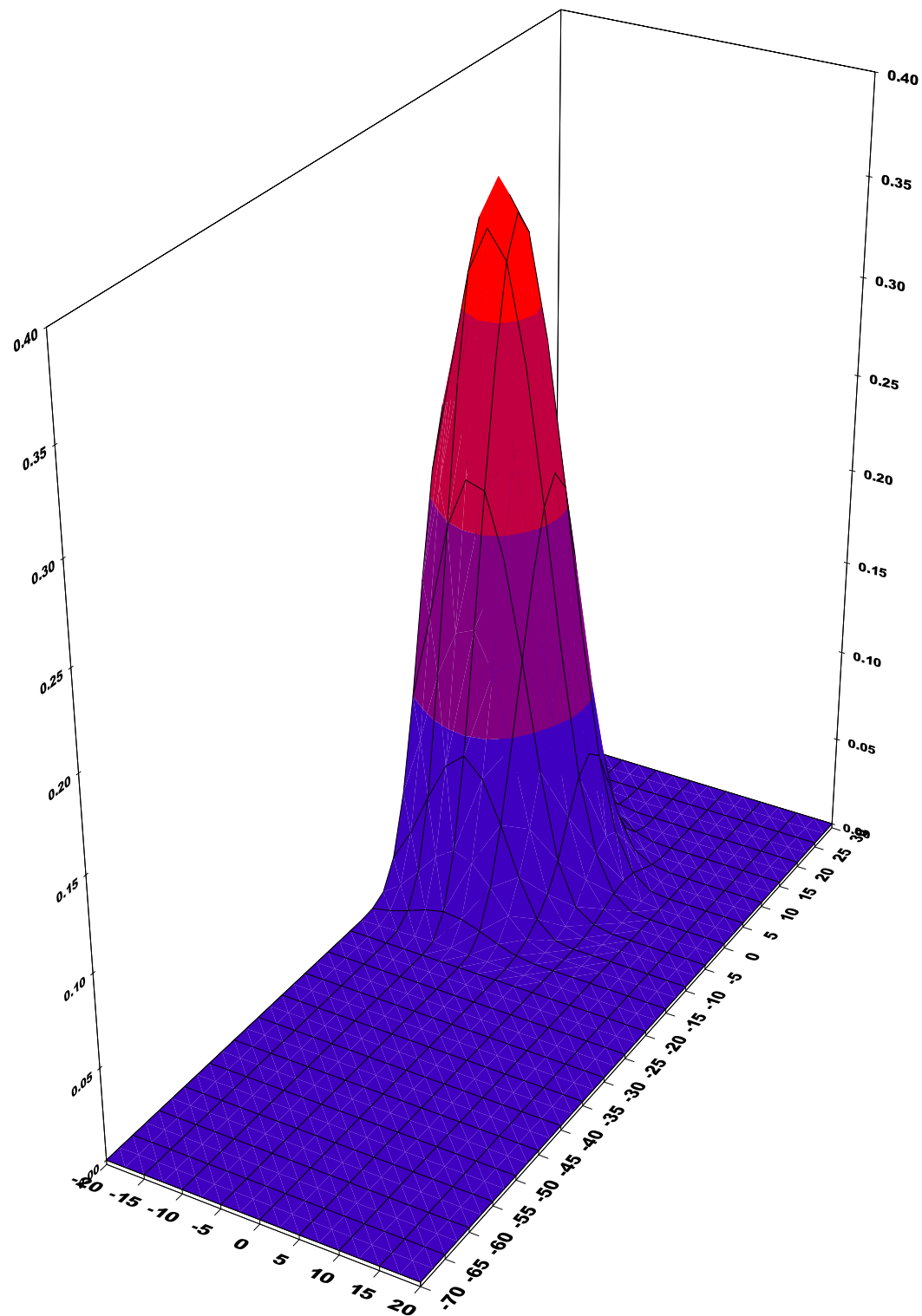
Location of Maximum Field :

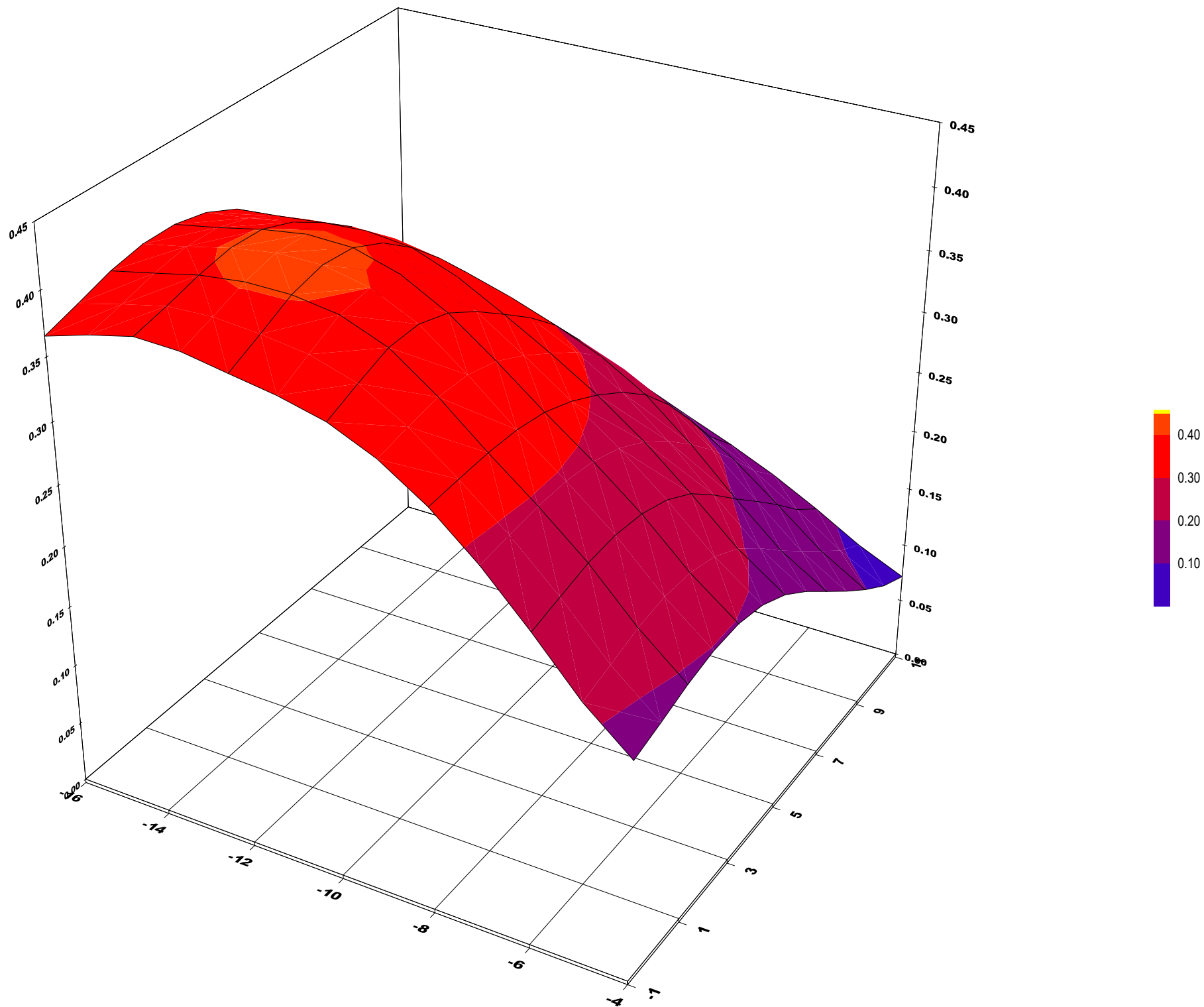
X = -12 Y = 3

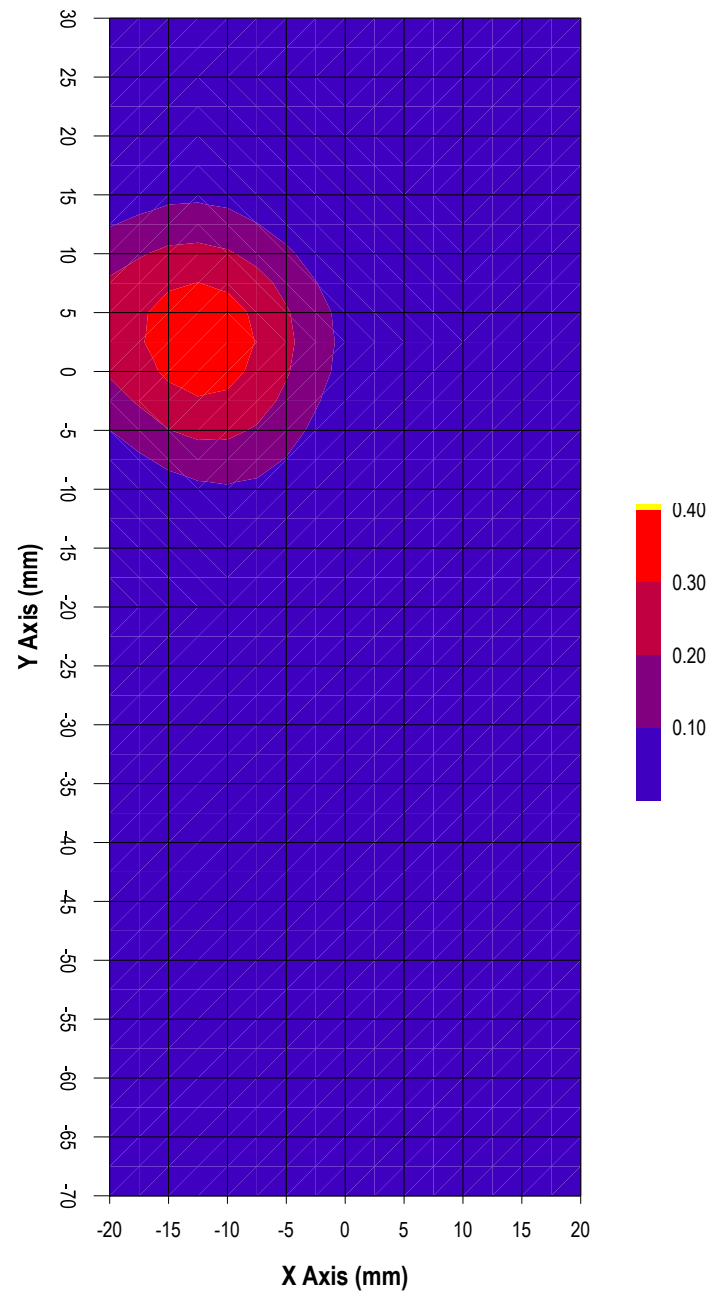
Measured Values (mV) :

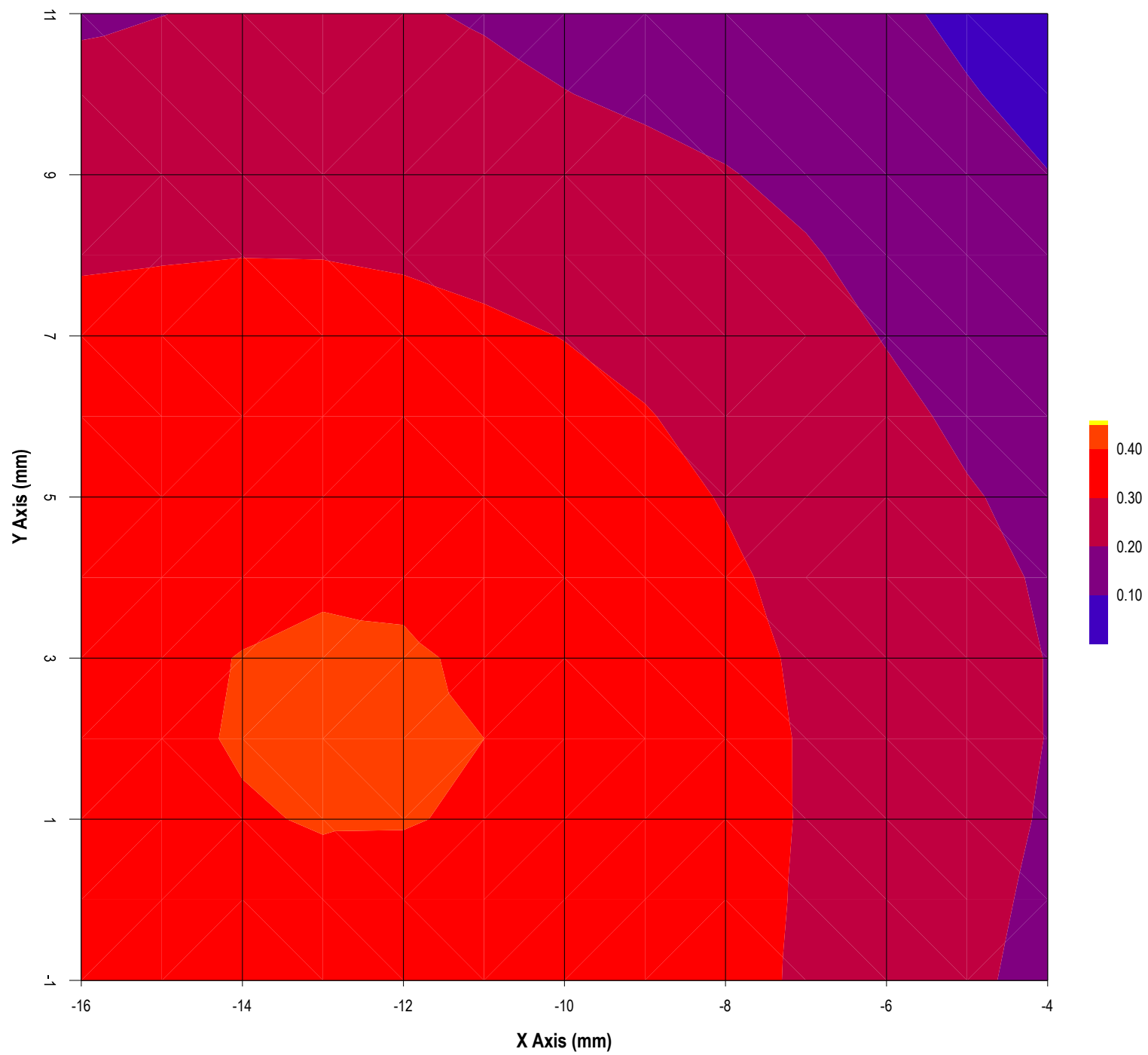
0.405	0.338	0.239	0.140	0.068	0.005
0.000	0.000	0.000	0.000	0.000	

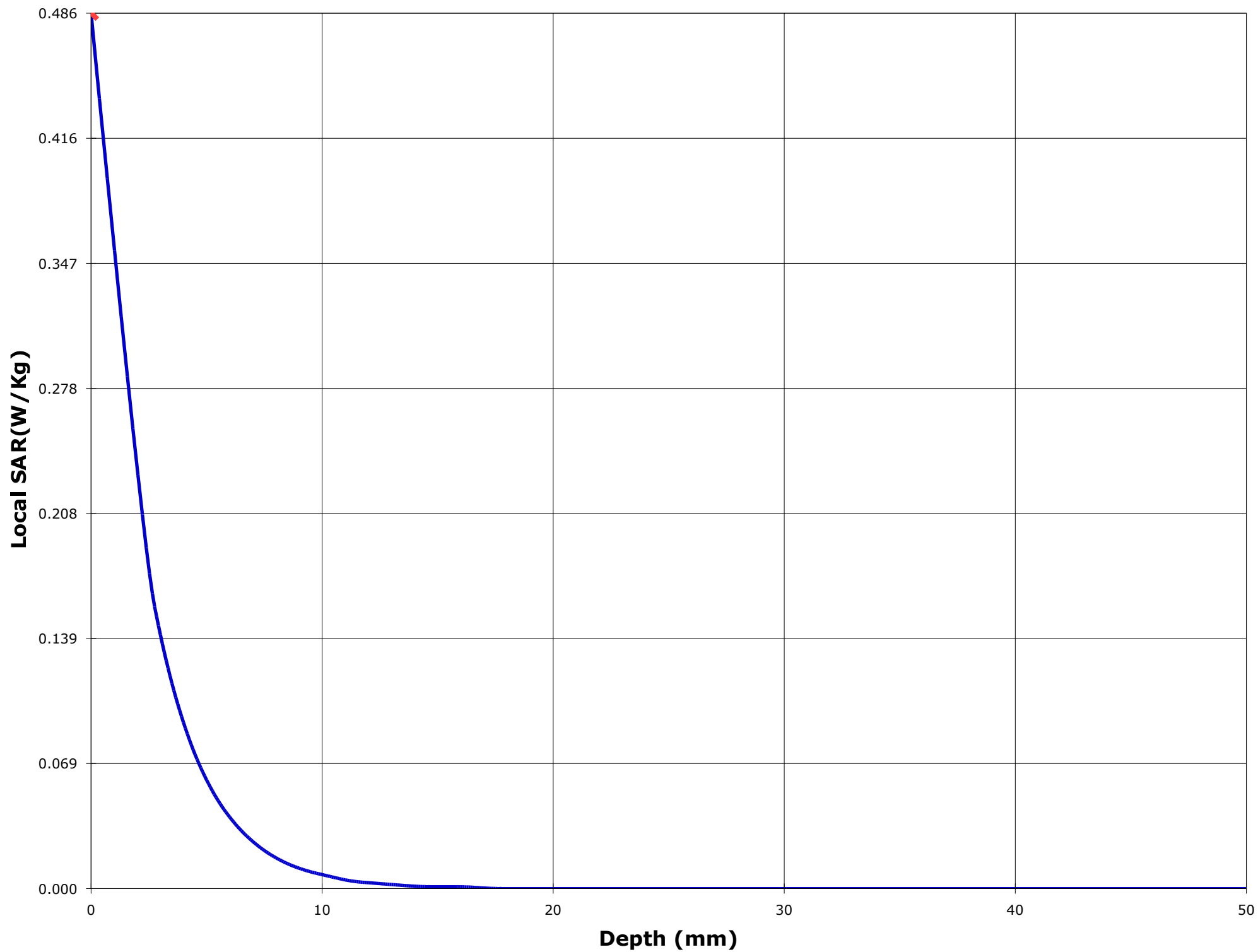
<u>Peak Voltage (mV)</u>	: 1.170	<u>1 Cm Voltage (mV)</u>	: 0.017	<u>SAR (W/Kg)</u>	: 0.085
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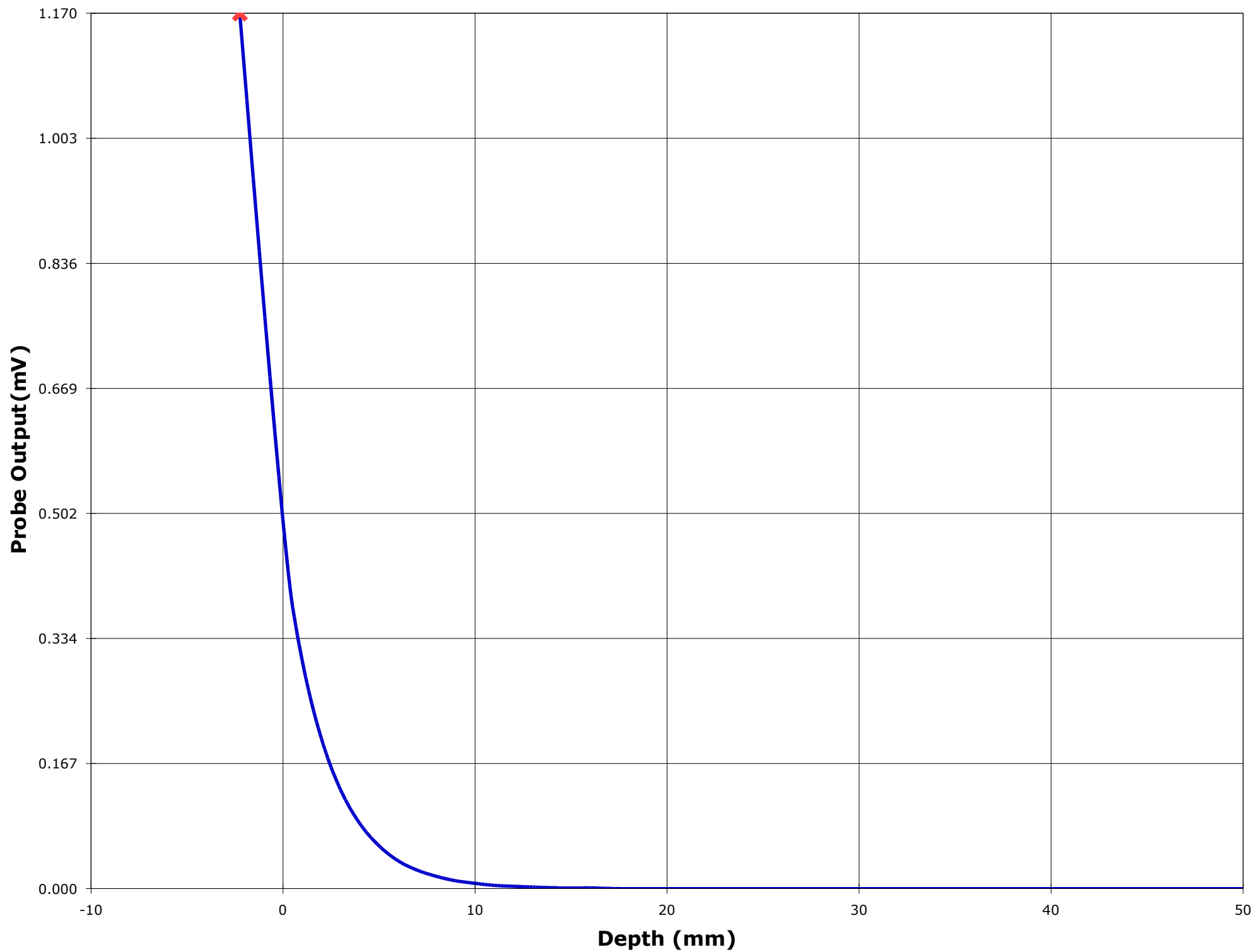












Test Information

Date : 02/11/2001
Time : 11:37:25 AM

<u>Product</u>	: 2.4GHz FHSS Cordless	<u>Test</u>	: SAR
<u>Manufacturer</u>	: Panasonic Canada Inc.	<u>Frequency (MHz)</u>	: 2440
<u>Model Number</u>	: KX-TD7690	<u>EIRP (W)</u>	: 0.329
<u>Serial Number</u>	: N/A	<u>Antenna Type</u>	: Monopole
<u>FCC ID Number</u>	:	<u>Signal</u>	: CW

<u>Phantom</u>	: Head - Right Ear	<u>Dielectric Constant</u>	: 38.70
<u>Simulated Tissue</u>	: Brain	<u>Conductivity</u>	: 2.01

<u>Probe</u>	: UT-ETR-0200-1	<u>Antenna Position</u>	: Extended
<u>Probe Offset (mm)</u>	: 2.250	<u>Measured Power (W)</u>	:
<u>Sensor Factor (mV)</u>	: 10.8	(conducted)	
<u>Conversion Factor</u>	: 4.482	<u>Cable Insertion Loss (dB)</u>	:
<u>Calibrated Date</u>	: 24/10/2001	<u>Compensated Power (W)</u>	: 0.000

Amplifier Setting :
Channel 1 : 0.0045 Channel 2 : 0.0045 Channel 3 : 0.0056

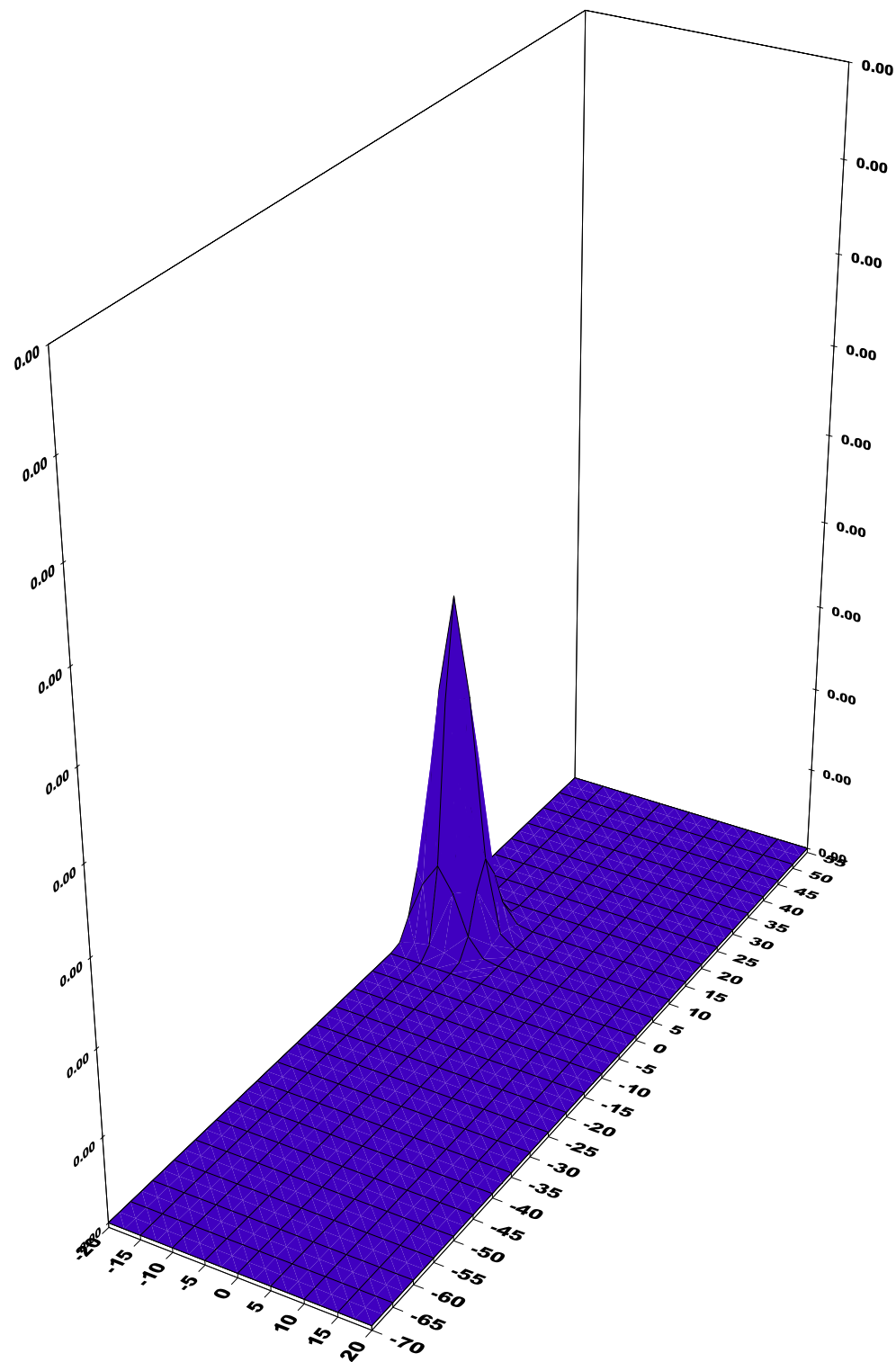
Location of Maximum Field :

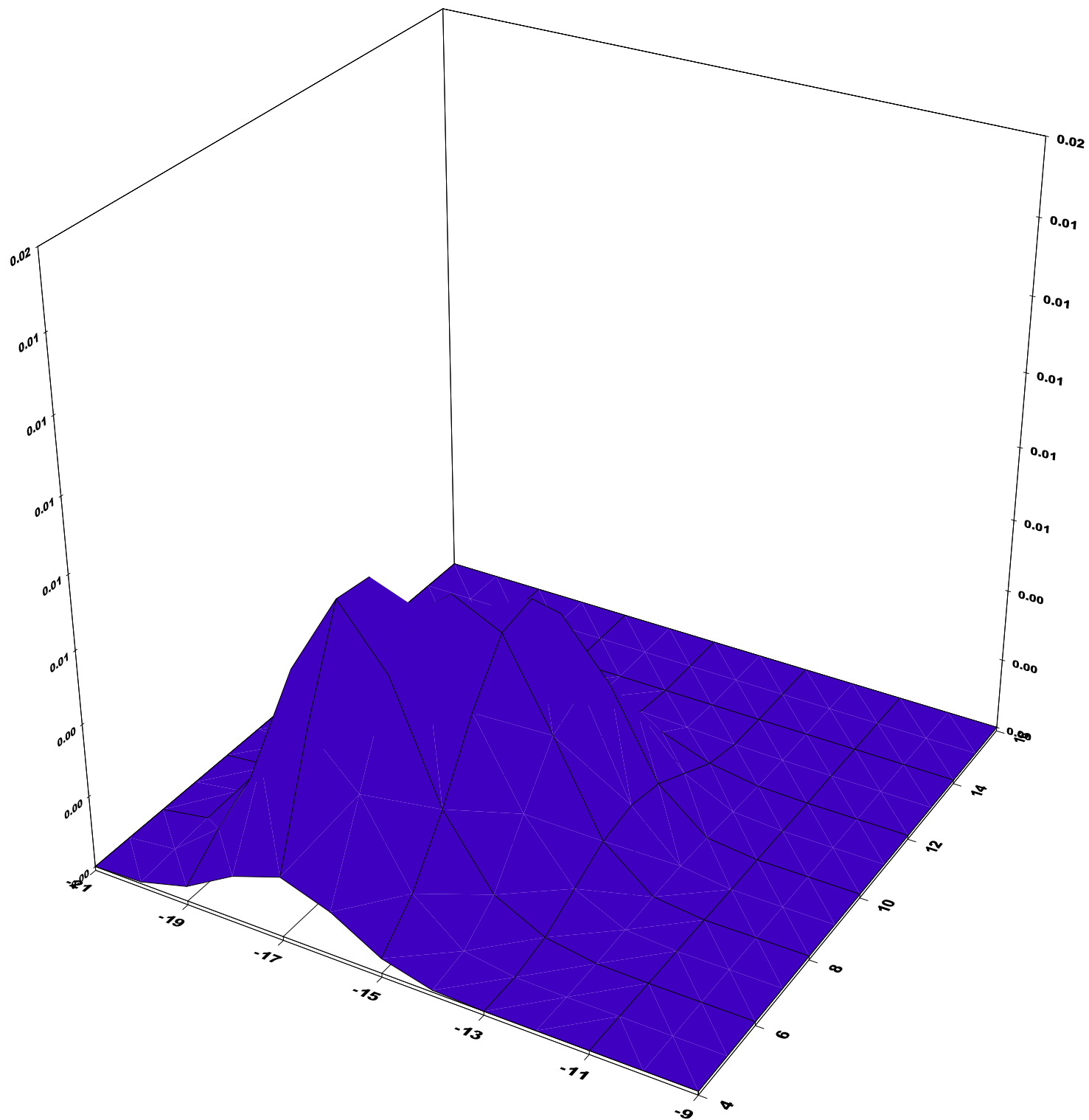
X = 0 Y = 0

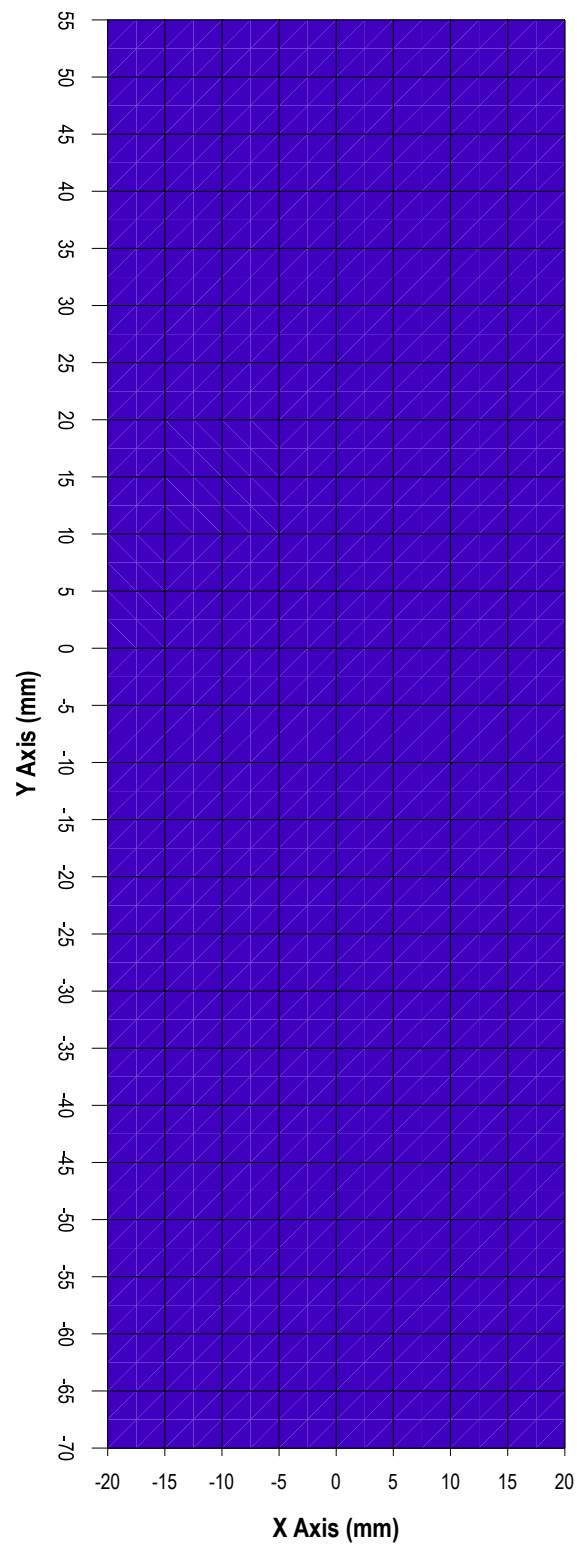
Measured Values (mV) :

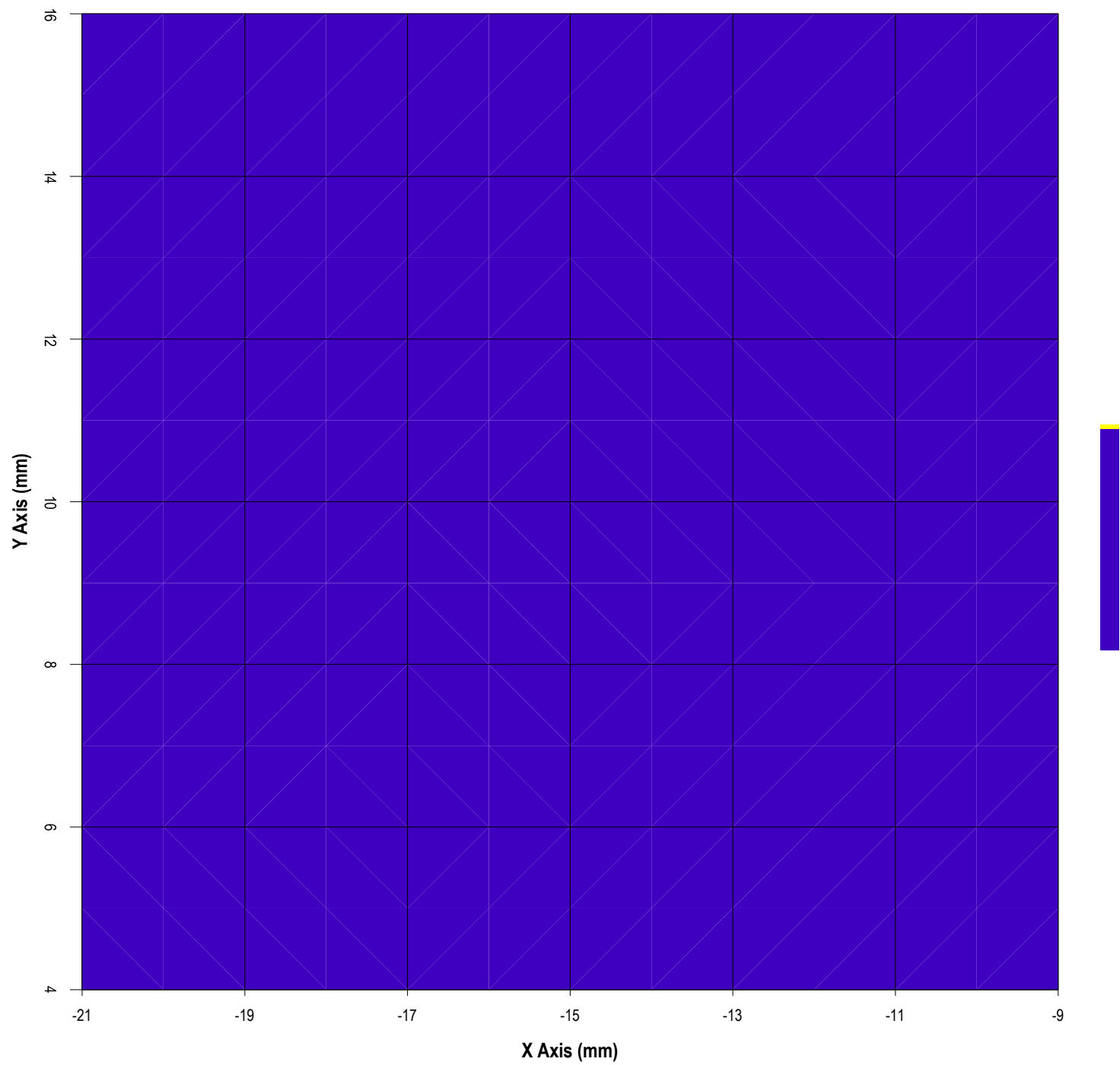
0.005	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	

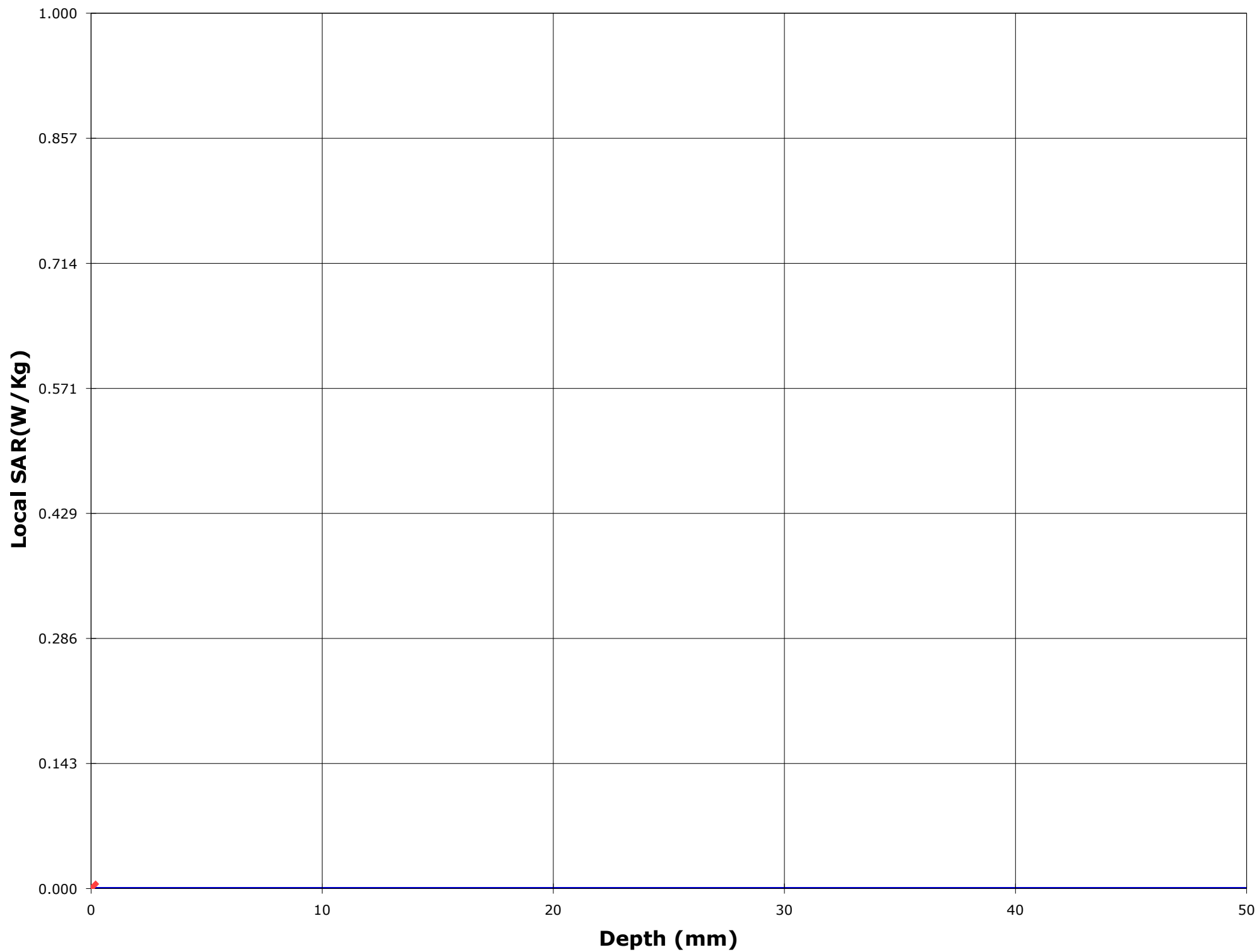
<u>Peak Voltage (mV)</u>	: 0.000	<u>1 Cm Voltage (mV)</u>	: 0.000	<u>SAR (W/Kg)</u>	: 0.000
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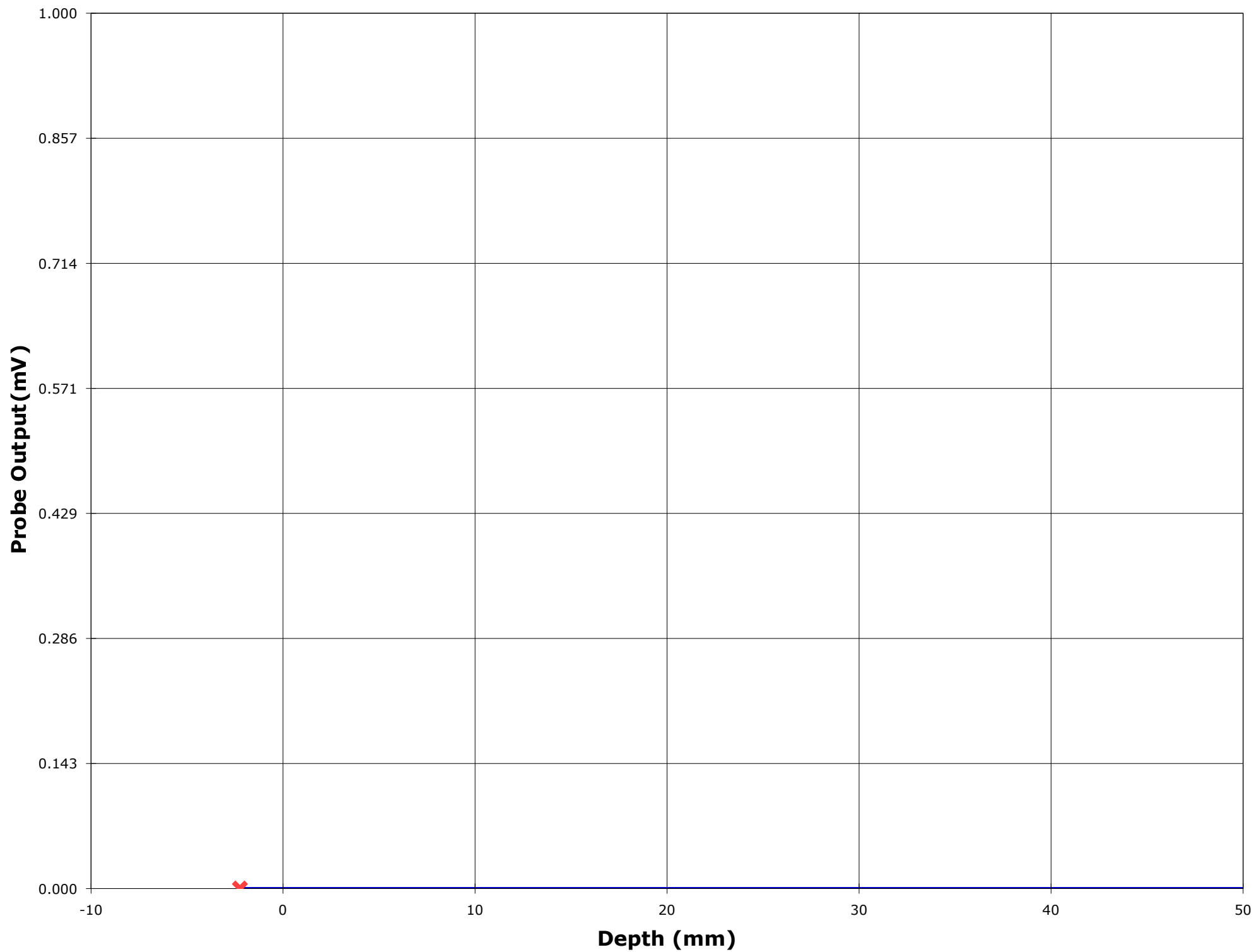












Test Information

Date : 02/11/2001
Time : 3:53:53 PM

<u>Product</u>	: 2.4GHz FHSS Cordless	<u>Test</u>	: SAR
<u>Manufacturer</u>	: Panasonic Canada Inc.	<u>Frequency (MHz)</u>	: 2440
<u>Model Number</u>	: KX-TD7690	<u>EIRP (W)</u>	: 0.329
<u>Serial Number</u>	: N/A	<u>Antenna Type</u>	: Monopole
<u>FCC ID Number</u>	:	<u>Signal</u>	: CW

<u>Phantom</u>	: Head - Left Ear	<u>Dielectric Constant</u>	: 38.70
<u>Simulated Tissue</u>	: Brain	<u>Conductivity</u>	: 2.01

<u>Probe</u>	: UT-ETR-0200-1	<u>Antenna Position</u>	: Retracted
<u>Probe Offset (mm)</u>	: 2.250	<u>Measured Power (W)</u>	:
<u>Sensor Factor (mV)</u>	: 10.8	(conducted)	
<u>Conversion Factor</u>	: 4.482	<u>Cable Insertion Loss (dB)</u>	:
<u>Calibrated Date</u>	: 24/10/2001	<u>Compensated Power (W)</u>	: 0.000

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0045 Channel 3 : 0.0056

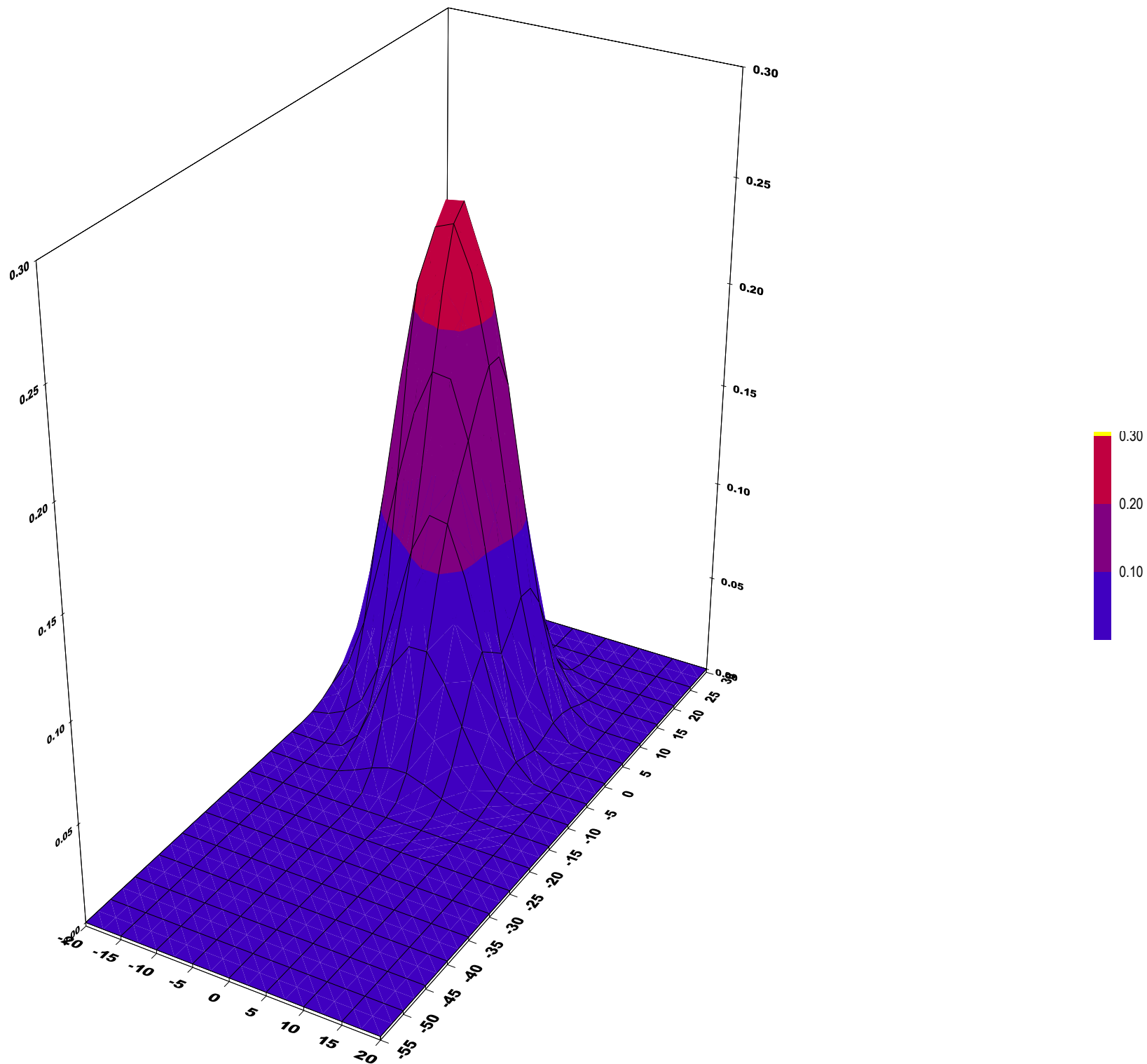
Location of Maximum Field :

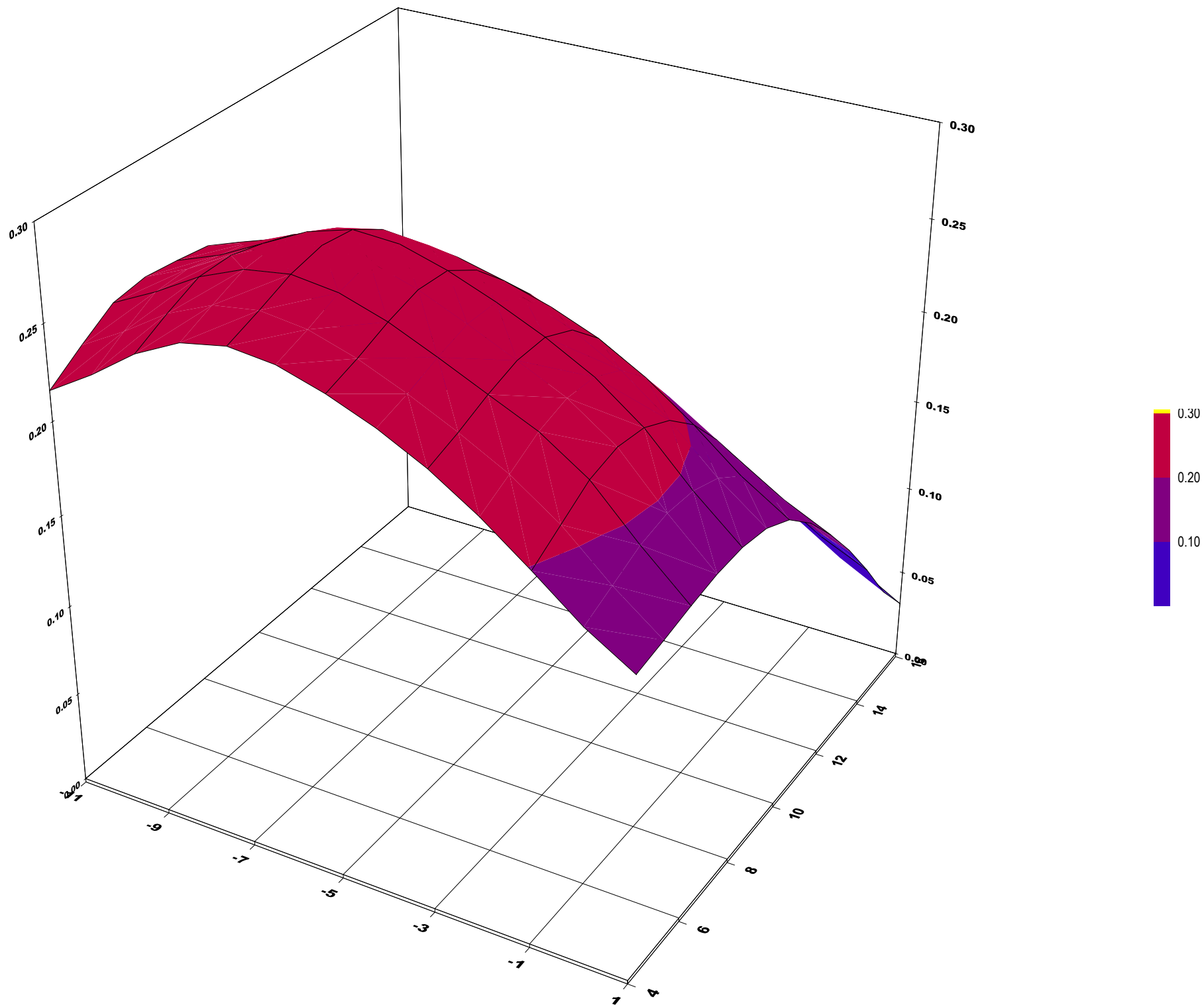
X = -7 Y = 8

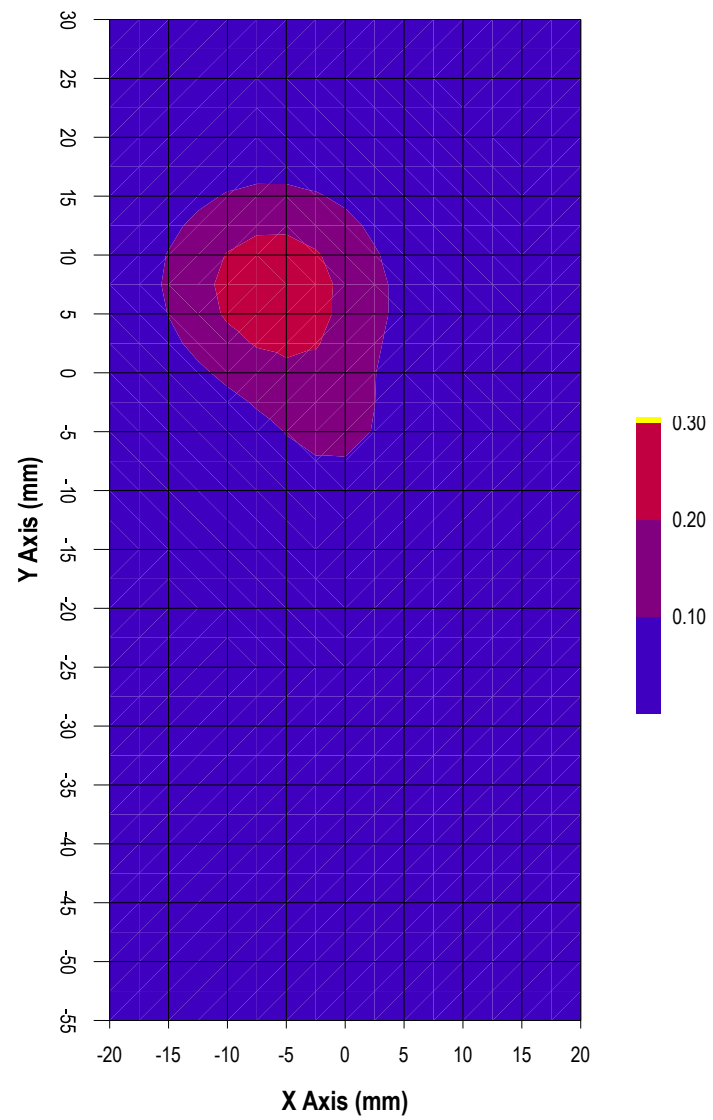
Measured Values (mV) :

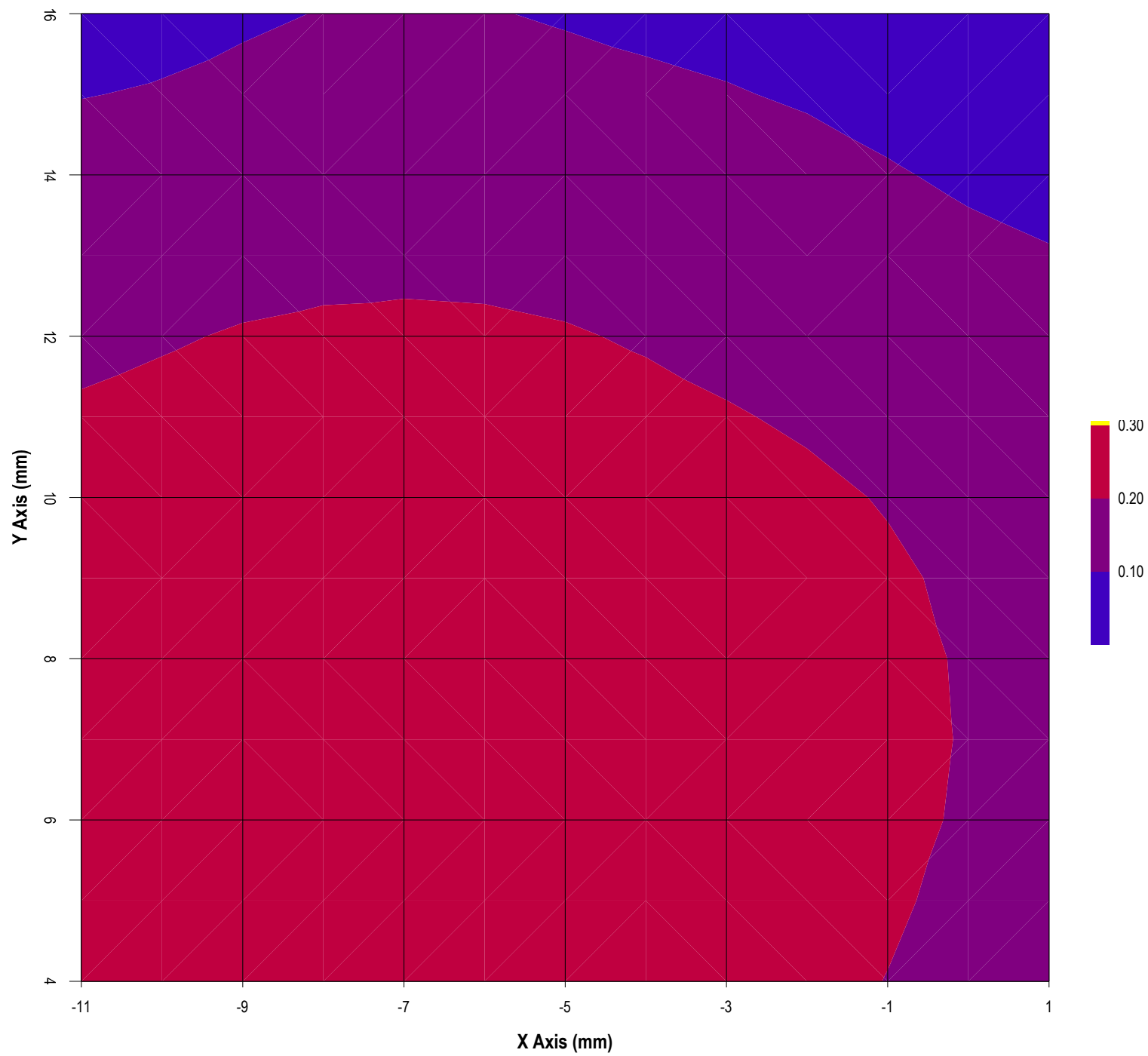
0.284	0.266	0.189	0.099	0.041	0.000
0.000	0.000	0.000	0.000	0.000	

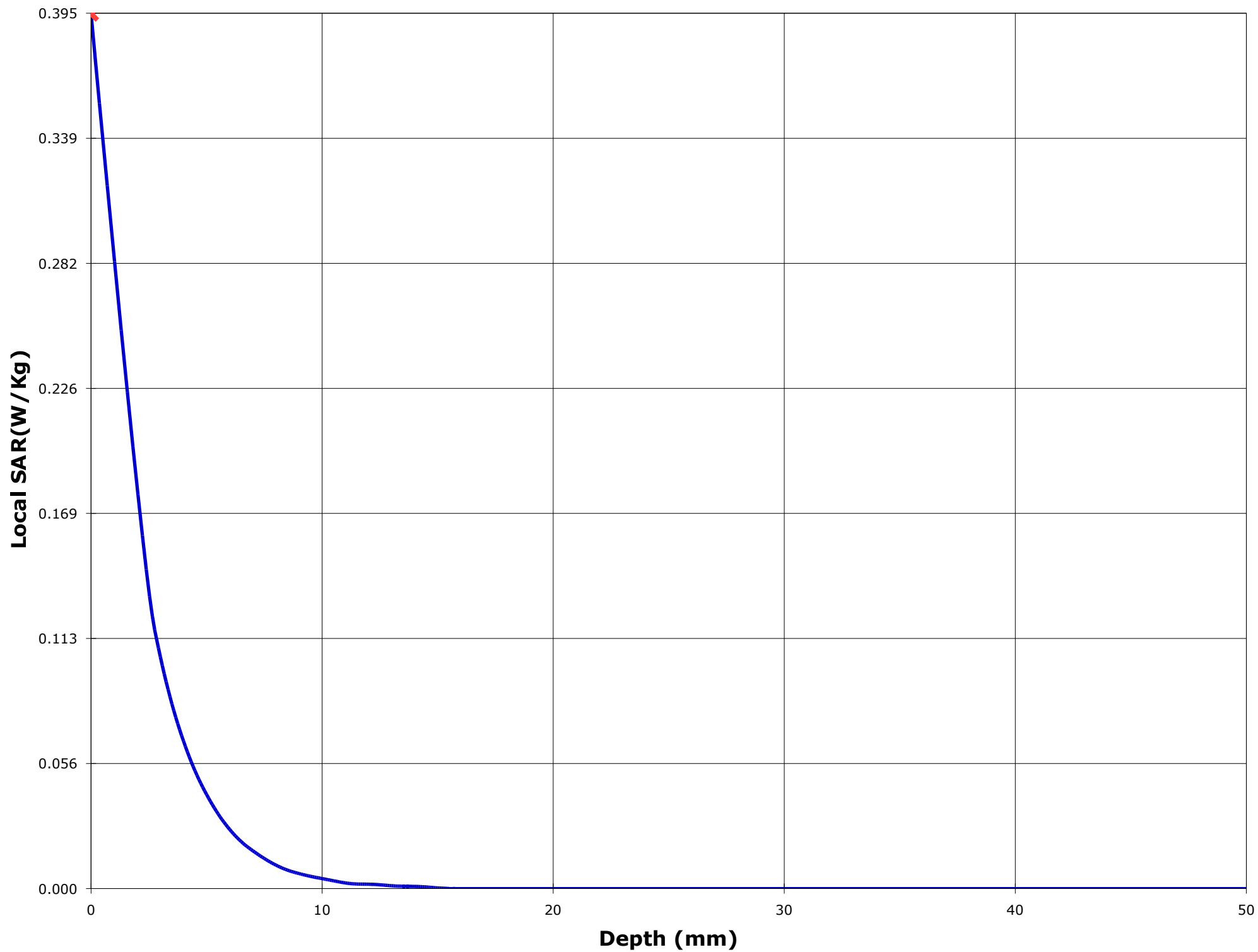
<u>Peak Voltage (mV)</u>	: 0.952	<u>1 Cm Voltage (mV)</u>	: 0.010	<u>SAR (W/Kg)</u>	: 0.059
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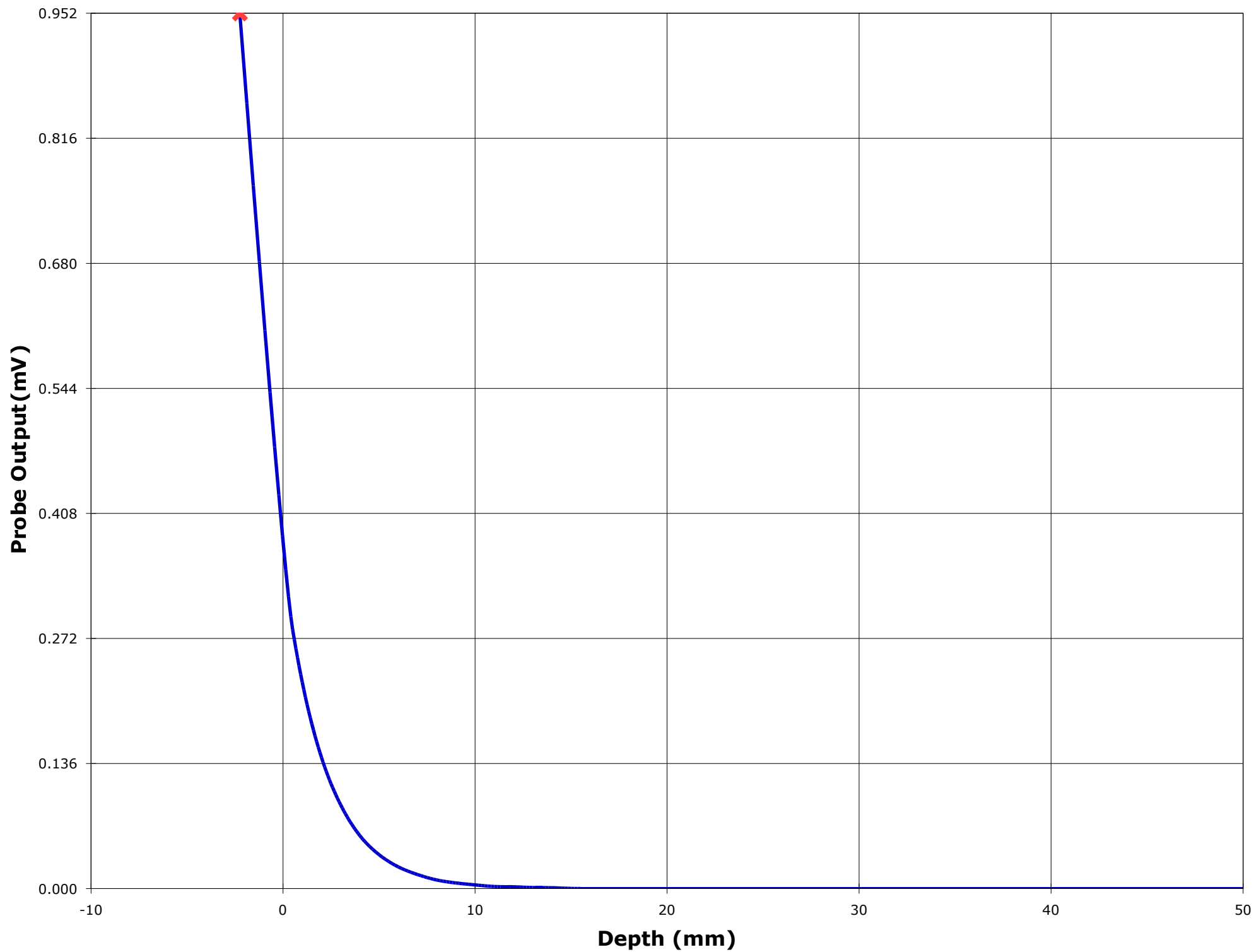












Test Information

Date : 02/11/2001
Time : 3:27:17 PM

<u>Product</u>	: 2.4GHz FHSS Cordless	<u>Test</u>	: SAR
<u>Manufacturer</u>	: Panasonic Canada Inc.	<u>Frequency (MHz)</u>	: 2440
<u>Model Number</u>	: KX-TD7690	<u>EIRP (W)</u>	: 0.329
<u>Serial Number</u>	: N/A	<u>Antenna Type</u>	: Monopole
<u>FCC ID Number</u>	:	<u>Signal</u>	: CW

<u>Phantom</u>	: Head - Left Ear	<u>Dielectric Constant</u>	: 38.70
<u>Simulated Tissue</u>	: Brain	<u>Conductivity</u>	: 2.01

<u>Probe</u>	: UT-ETR-0200-1	<u>Antenna Position</u>	: Extended
<u>Probe Offset (mm)</u>	: 2.250	<u>Measured Power (W)</u>	:
<u>Sensor Factor (mV)</u>	: 10.8	(conducted)	
<u>Conversion Factor</u>	: 4.482	<u>Cable Insertion Loss (dB)</u>	:
<u>Calibrated Date</u>	: 24/10/2001	<u>Compensated Power (W)</u>	: 0.000

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0045 Channel 3 : 0.0056

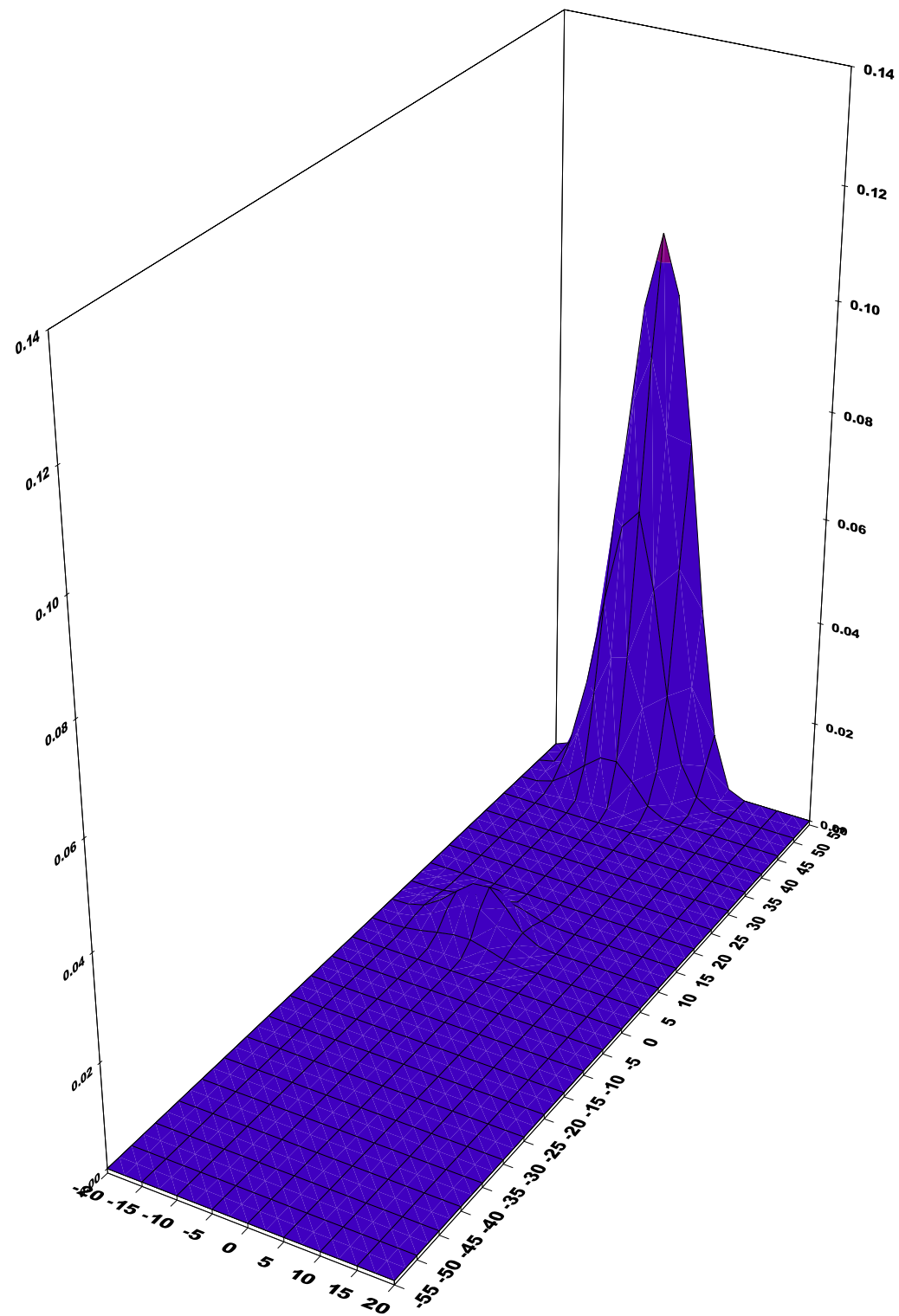
Location of Maximum Field :

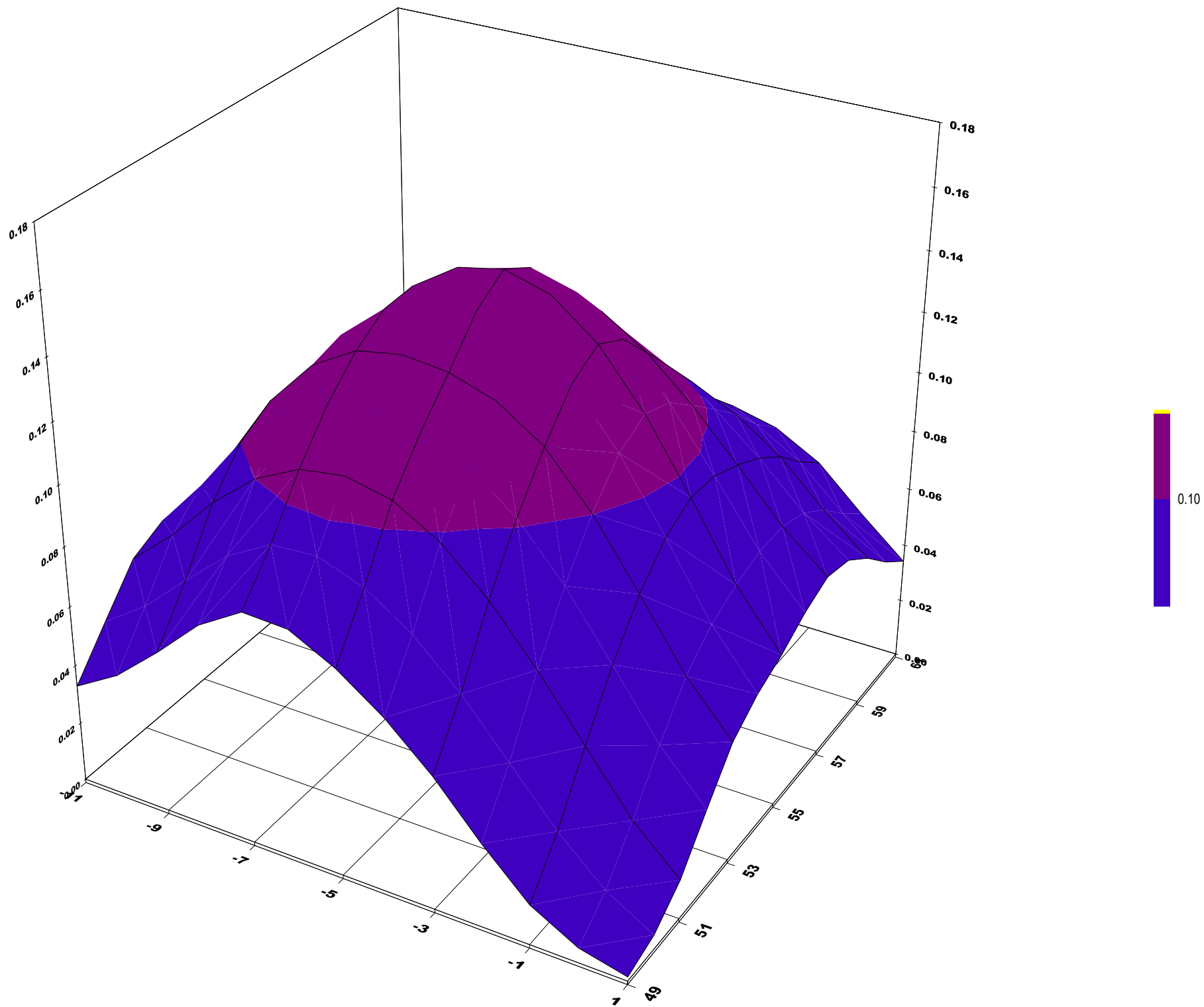
X = -5 Y = 55

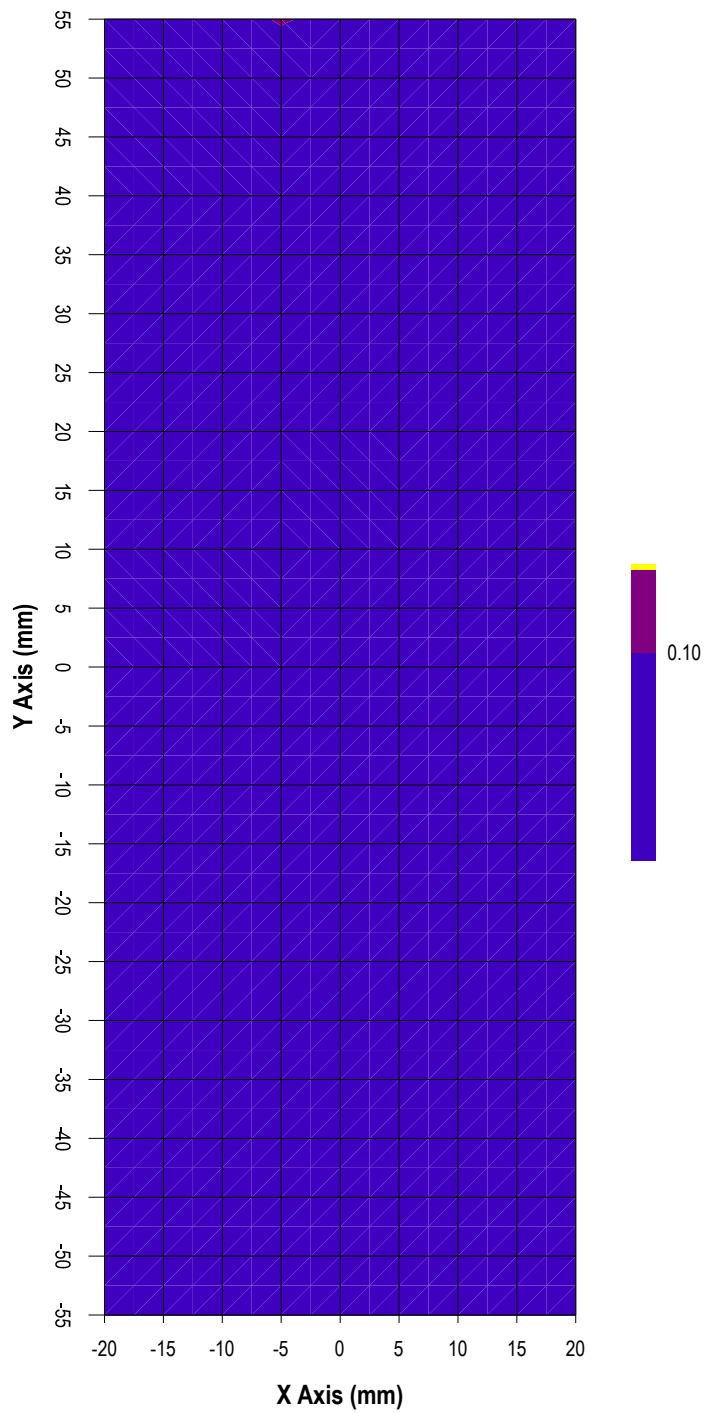
Measured Values (mV) :

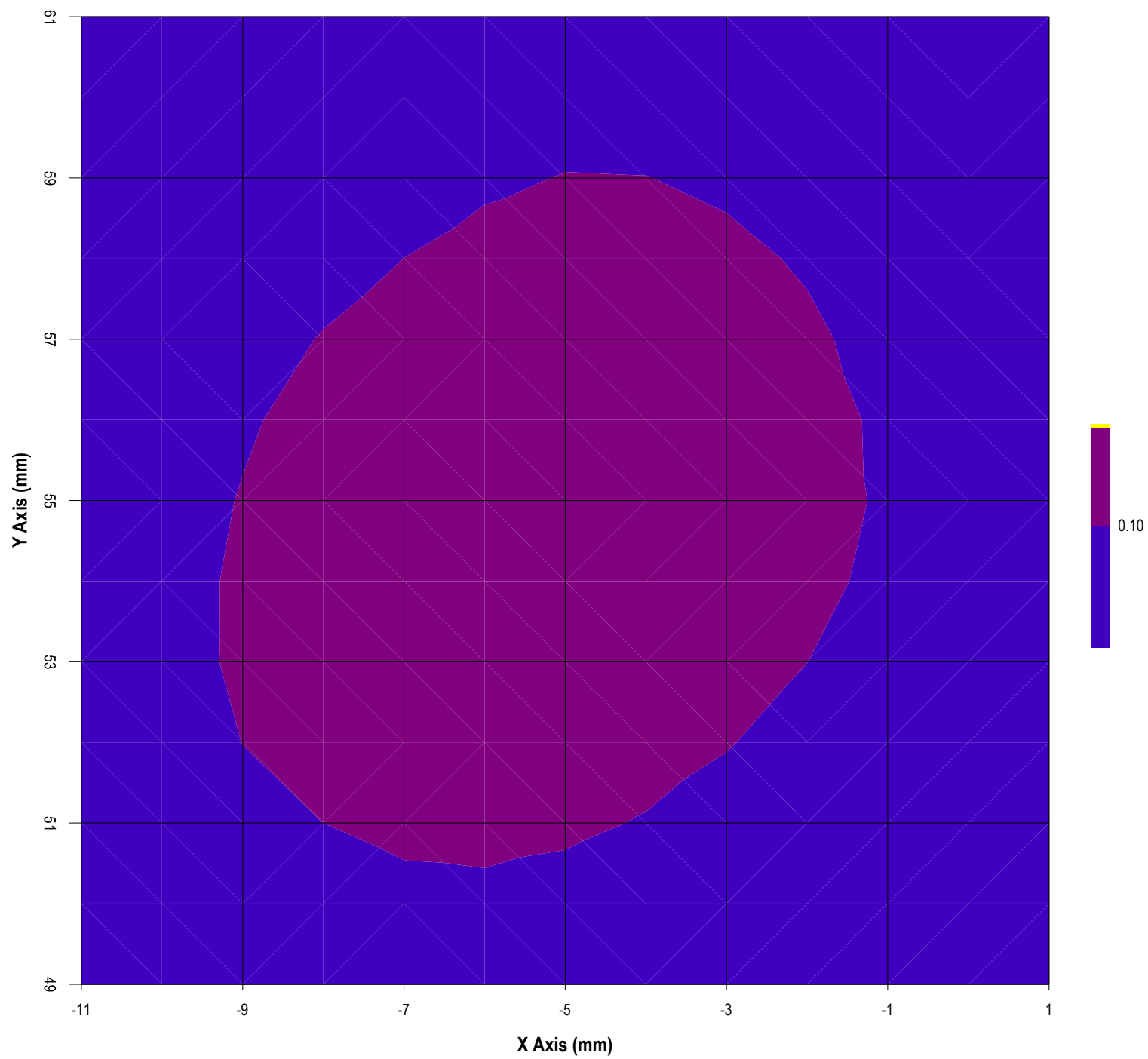
0.163	0.163	0.129	0.050	0.000	0.000
0.000	0.000	0.000	0.000	0.000	

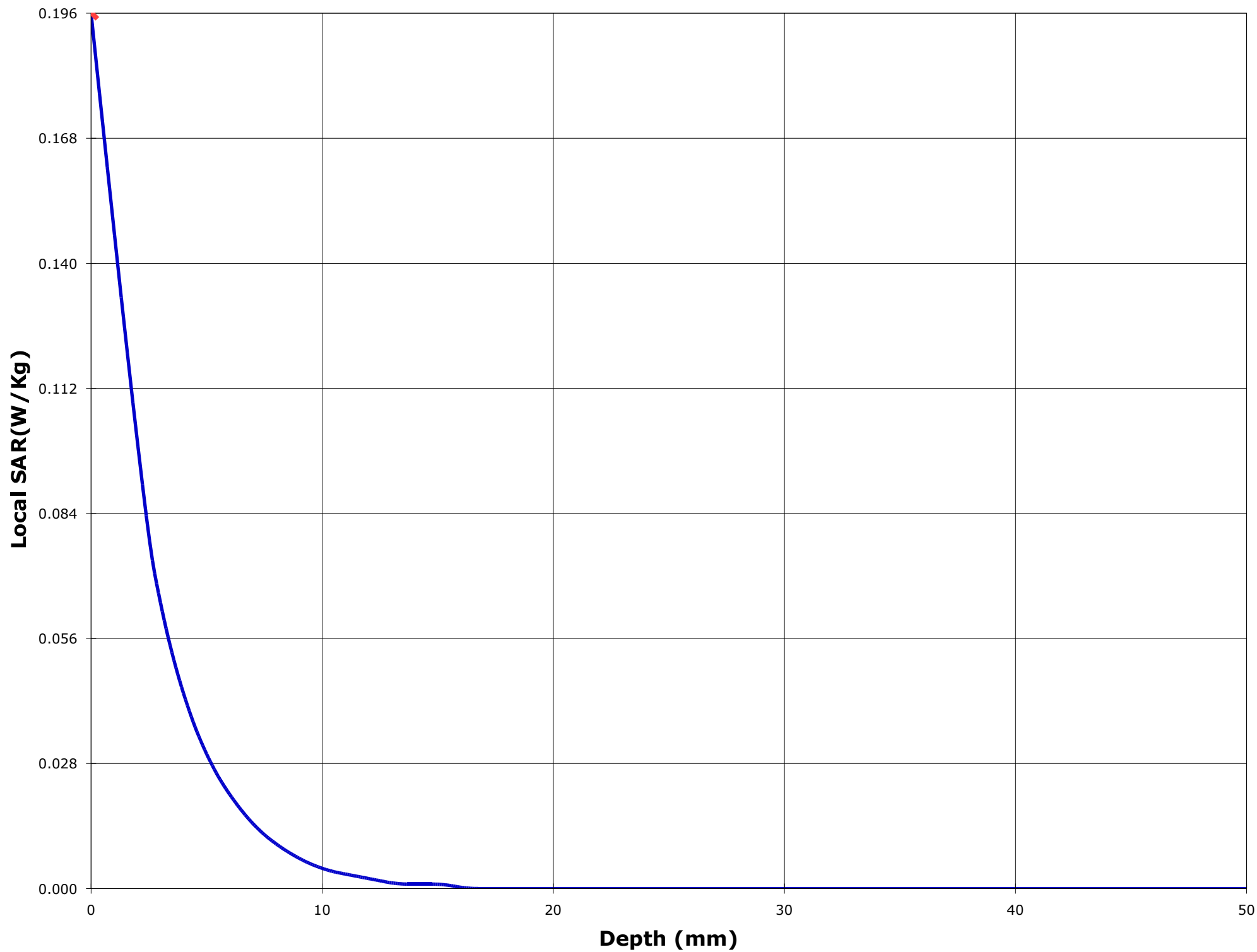
<u>Peak Voltage (mV)</u>	: 0.472	<u>1 Cm Voltage (mV)</u>	: 0.011	<u>SAR (W/Kg)</u>	: 0.026
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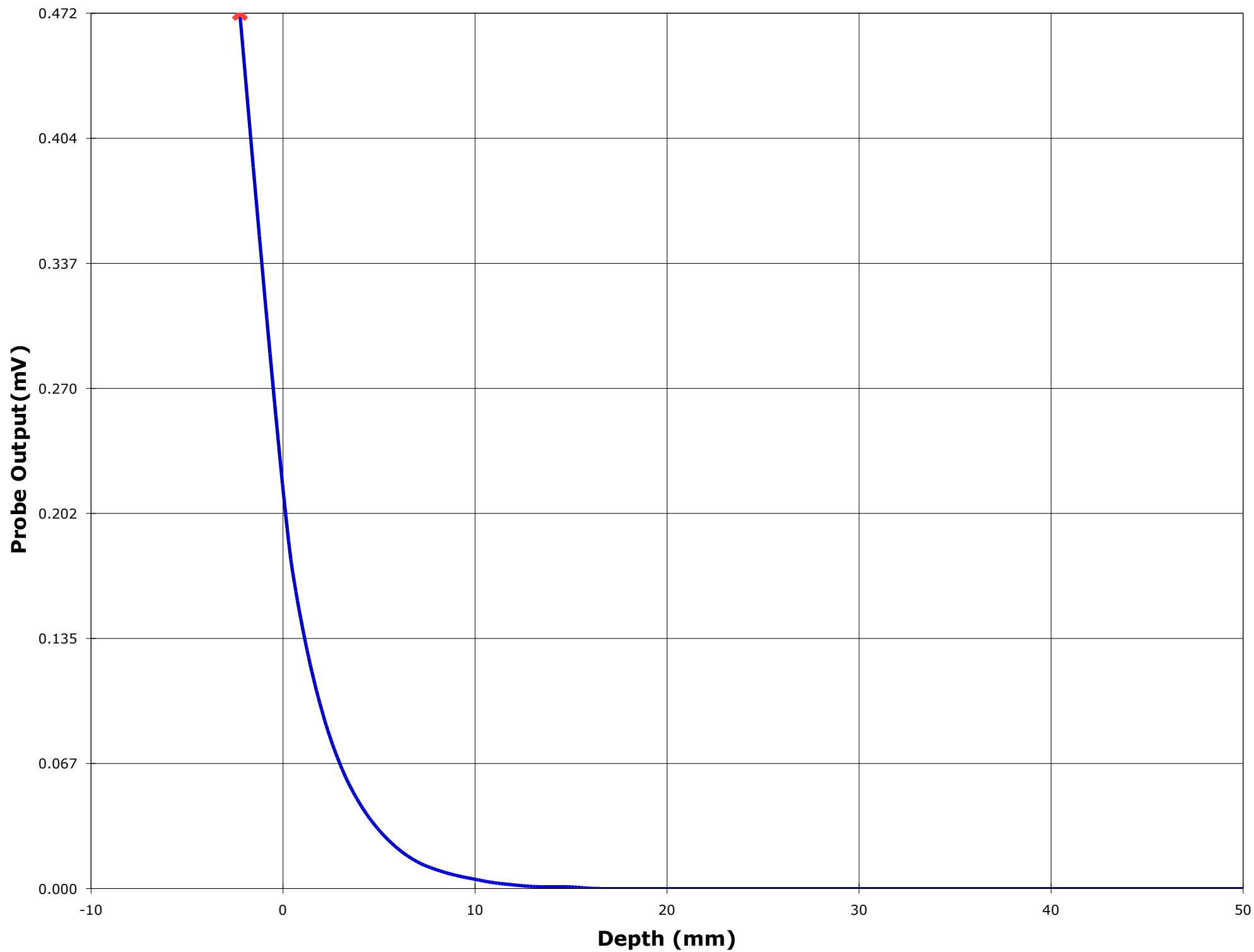












Test Information

Date : 02/11/2001
Time : 4:25:20 PM

<u>Product</u>	: 2.4GHz FHSS Cordless	<u>Test</u>	: SAR
<u>Manufacturer</u>	: Panasonic Canada Inc.	<u>Frequency (MHz)</u>	: 2440
<u>Model Number</u>	: KX-TD7690	<u>EIRP (W)</u>	: 0.329
<u>Serial Number</u>	: N/A	<u>Antenna Type</u>	: Monopole
<u>FCC ID Number</u>	:	<u>Signal</u>	: CW

<u>Phantom</u>	: Head - Left Ear	<u>Dielectric Constant</u>	: 38.70
<u>Simulated Tissue</u>	: Brain	<u>Conductivity</u>	: 2.01

<u>Probe</u>	: UT-ETR-0200-1	<u>Antenna Position</u>	: Retracted
<u>Probe Offset (mm)</u>	: 2.250	<u>Measured Power (W)</u>	:
<u>Sensor Factor (mV)</u>	: 10.8	(conducted)	
<u>Conversion Factor</u>	: 4.482	<u>Cable Insertion Loss (dB)</u>	:
<u>Calibrated Date</u>	: 24/10/2001	<u>Compensated Power (W)</u>	: 0.000

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0045 Channel 3 : 0.0056

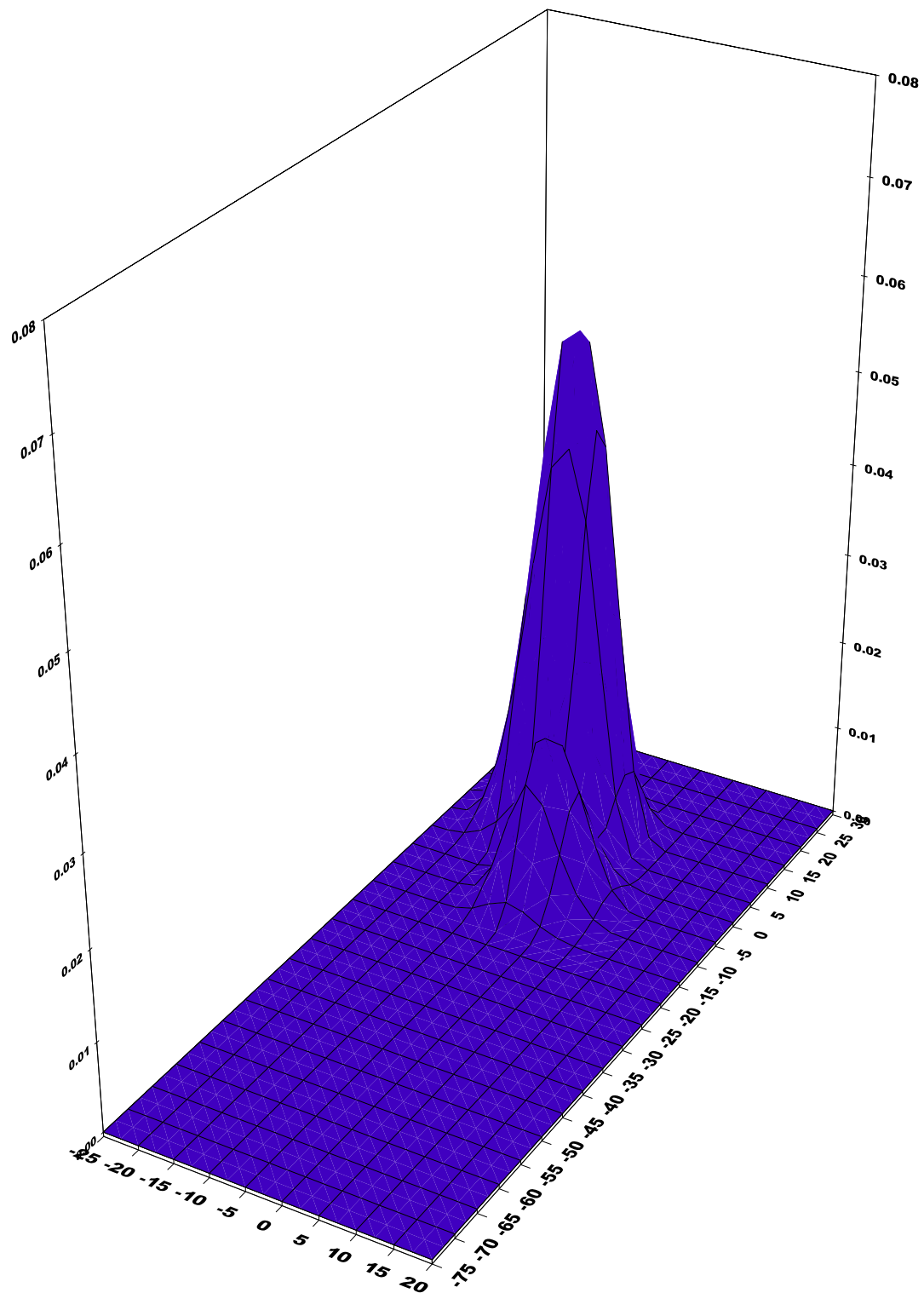
Location of Maximum Field :

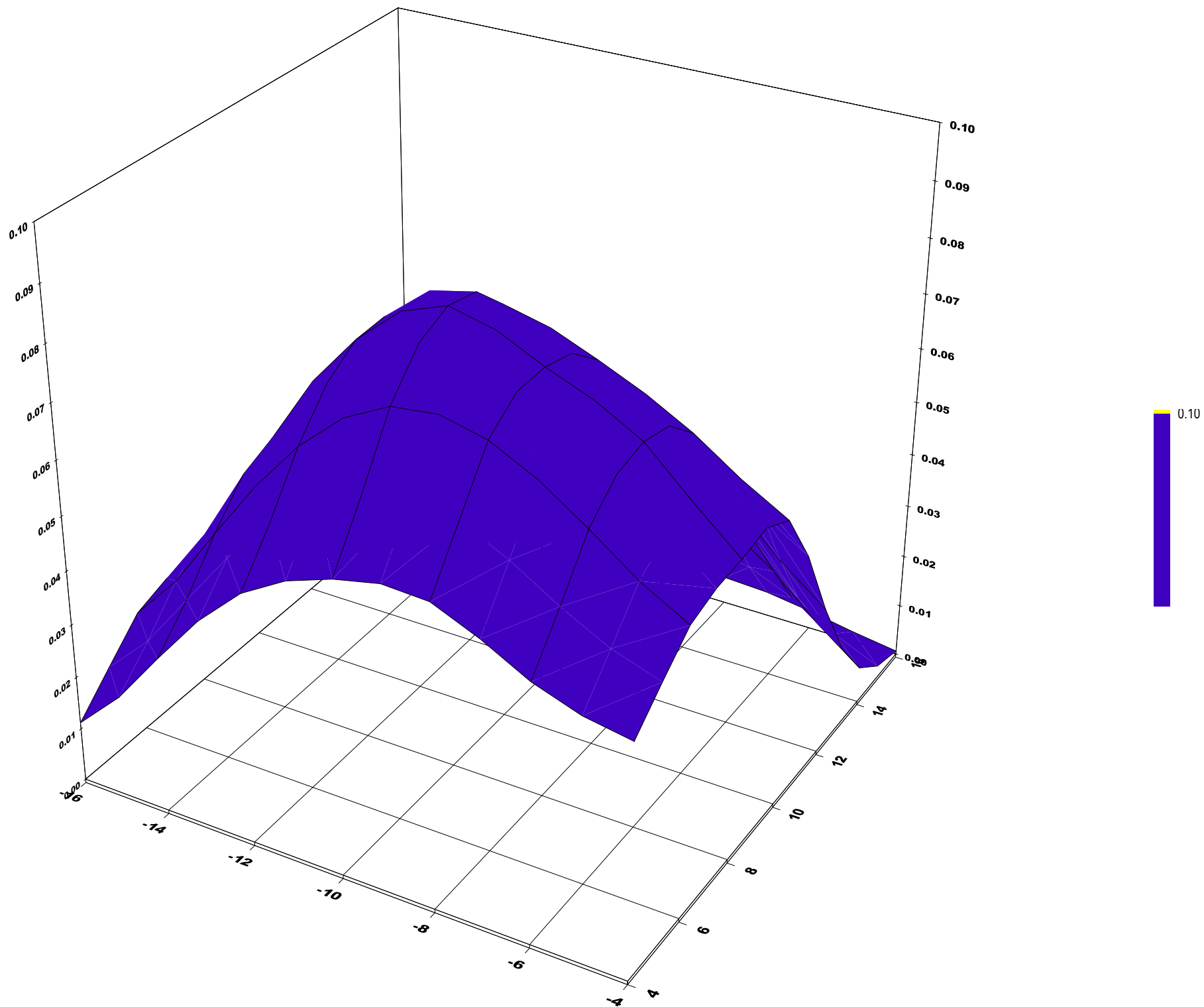
X = -10 Y = 8

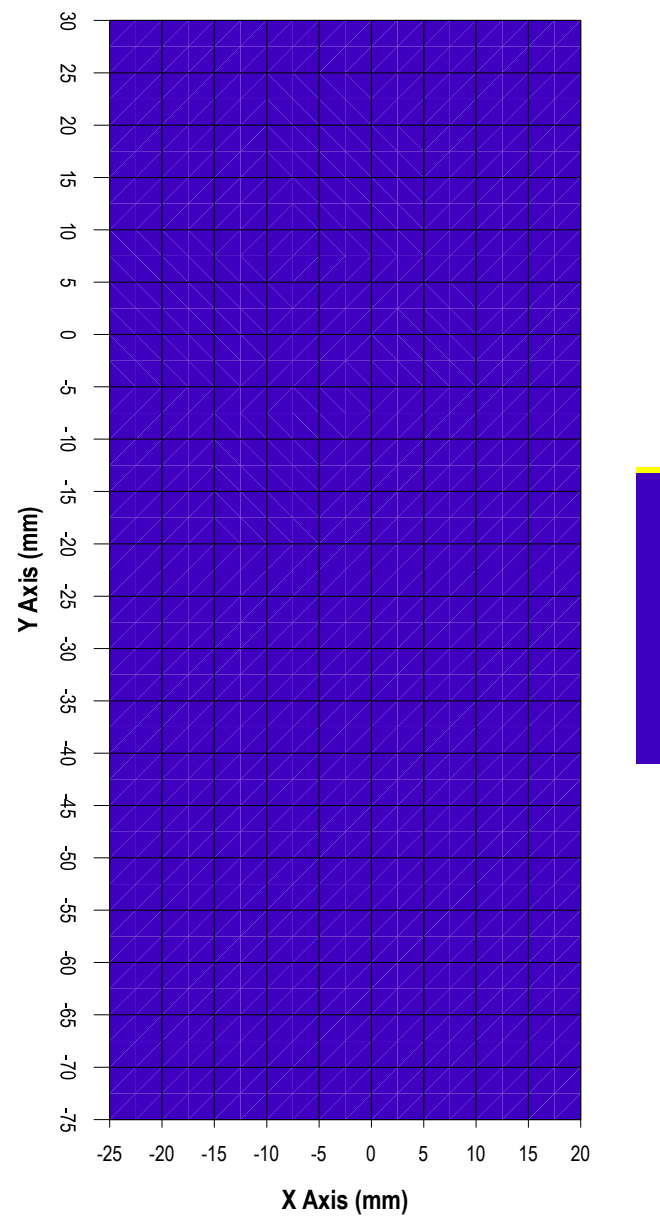
Measured Values (mV) :

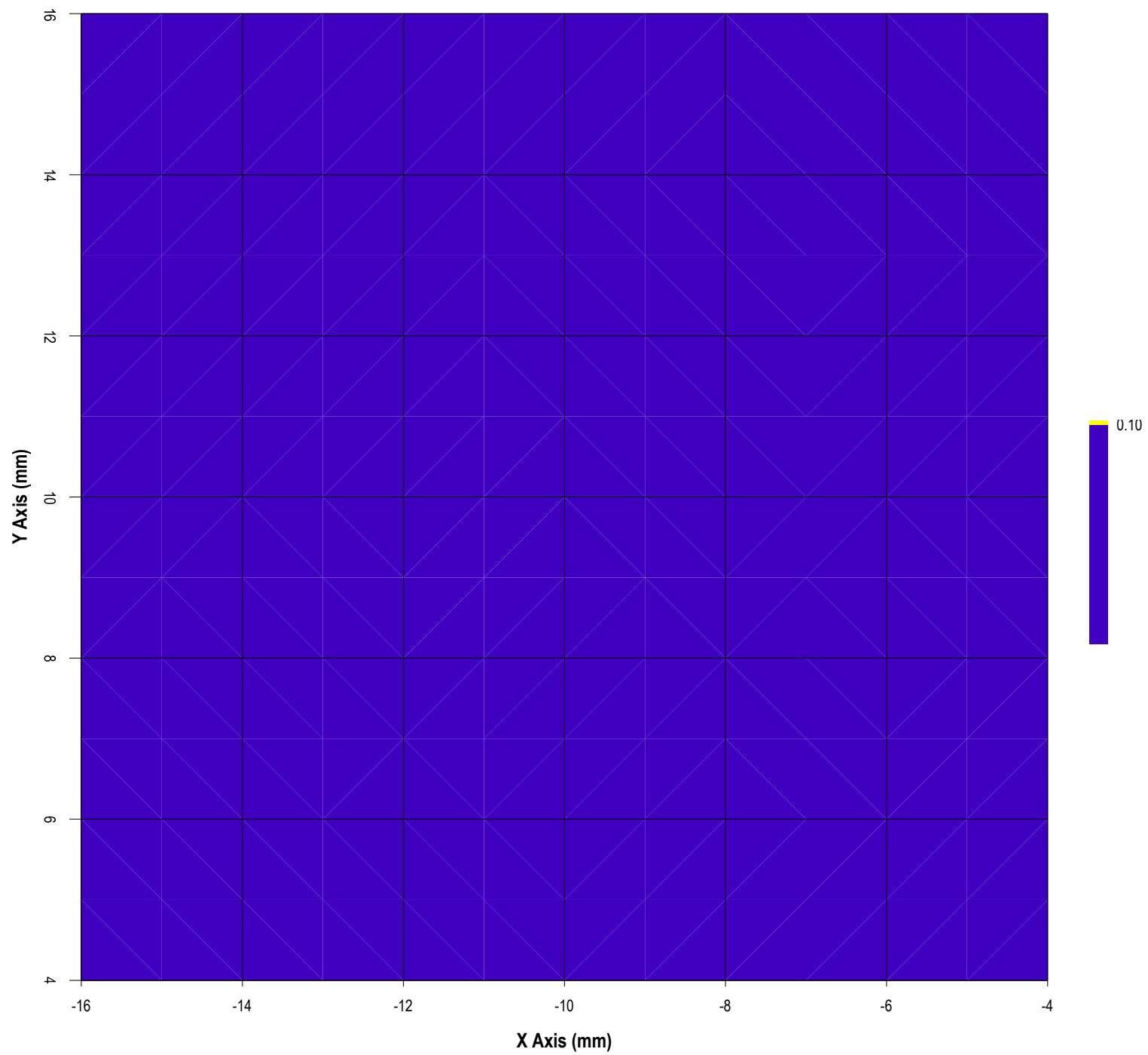
0.081	0.037	0.015	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	

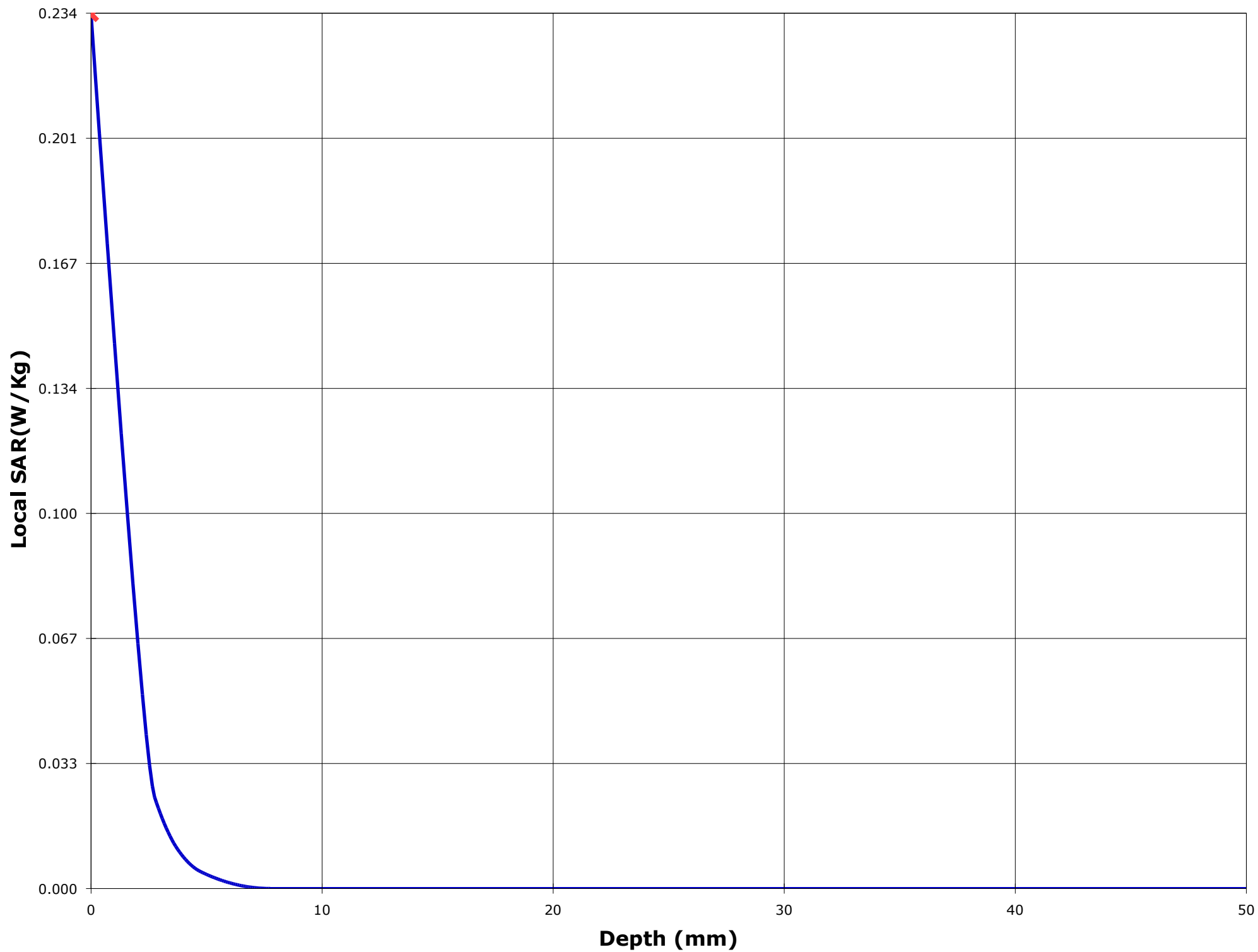
<u>Peak Voltage (mV)</u>	: 0.564	<u>1 Cm Voltage (mV)</u>	: 0.000	<u>SAR (W/Kg)</u>	: 0.019
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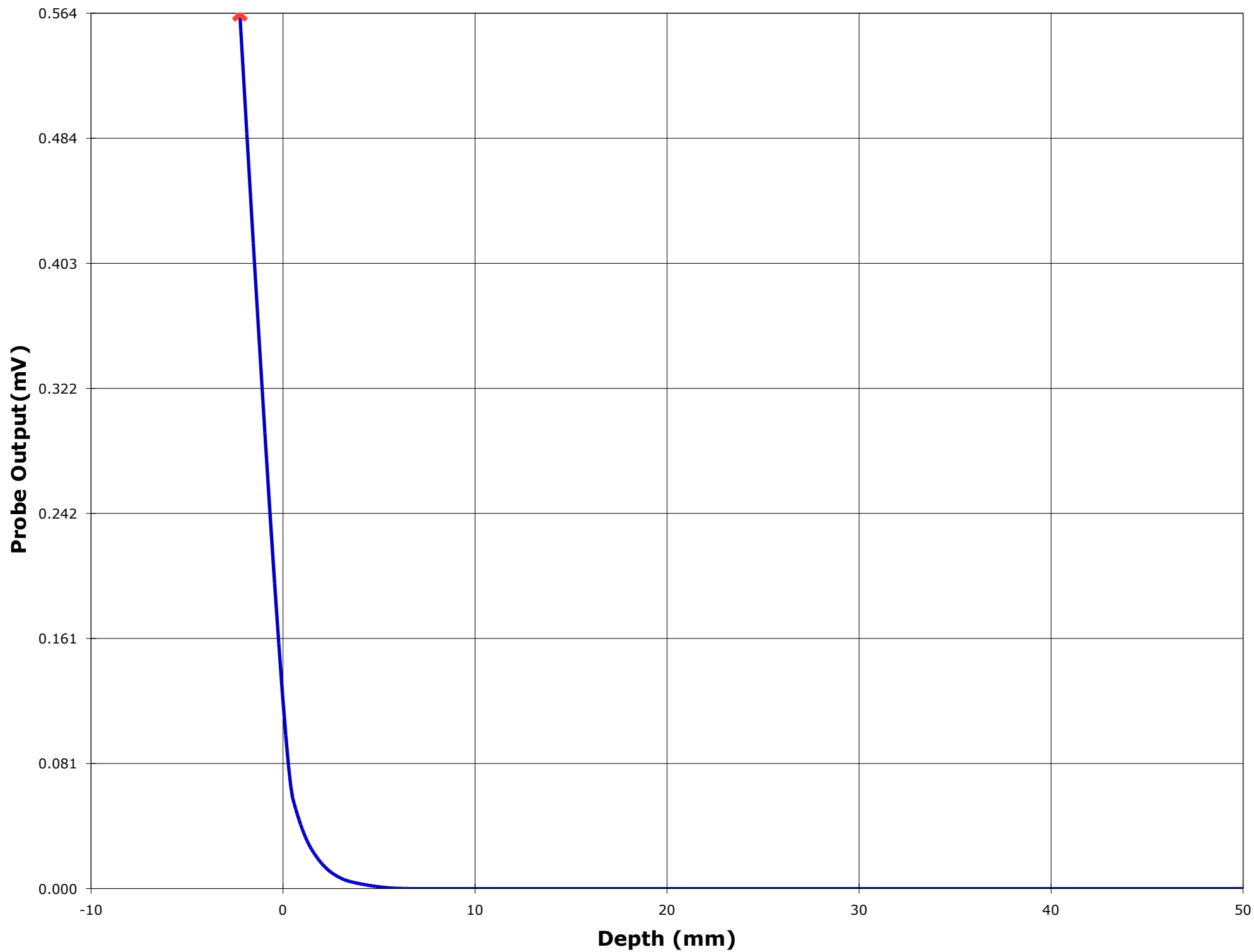












Test Information

Date : 02/11/2001
Time : 5:17:39 PM

<u>Product</u>	: 2.4GHz FHSS Cordless	<u>Test</u>	: SAR
<u>Manufacturer</u>	: Panasonic Canada Inc.	<u>Frequency (MHz)</u>	: 2440
<u>Model Number</u>	: KX-TD7690	<u>EIRP (W)</u>	: 0.329
<u>Serial Number</u>	: N/A	<u>Antenna Type</u>	: Monopole
<u>FCC ID Number</u>	:	<u>Signal</u>	: CW

<u>Phantom</u>	: Head - Left Ear	<u>Dielectric Constant</u>	: 38.70
<u>Simulated Tissue</u>	: Brain	<u>Conductivity</u>	: 2.01

<u>Probe</u>	: UT-ETR-0200-1	<u>Antenna Position</u>	: Extended
<u>Probe Offset (mm)</u>	: 2.250	<u>Measured Power (W)</u>	:
<u>Sensor Factor (mV)</u>	: 10.8	(conducted)	
<u>Conversion Factor</u>	: 4.482	<u>Cable Insertion Loss (dB)</u>	:
<u>Calibrated Date</u>	: 24/10/2001	<u>Compensated Power (W)</u>	: 0.000

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0045 Channel 3 : 0.0056

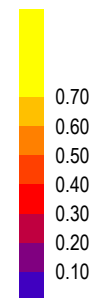
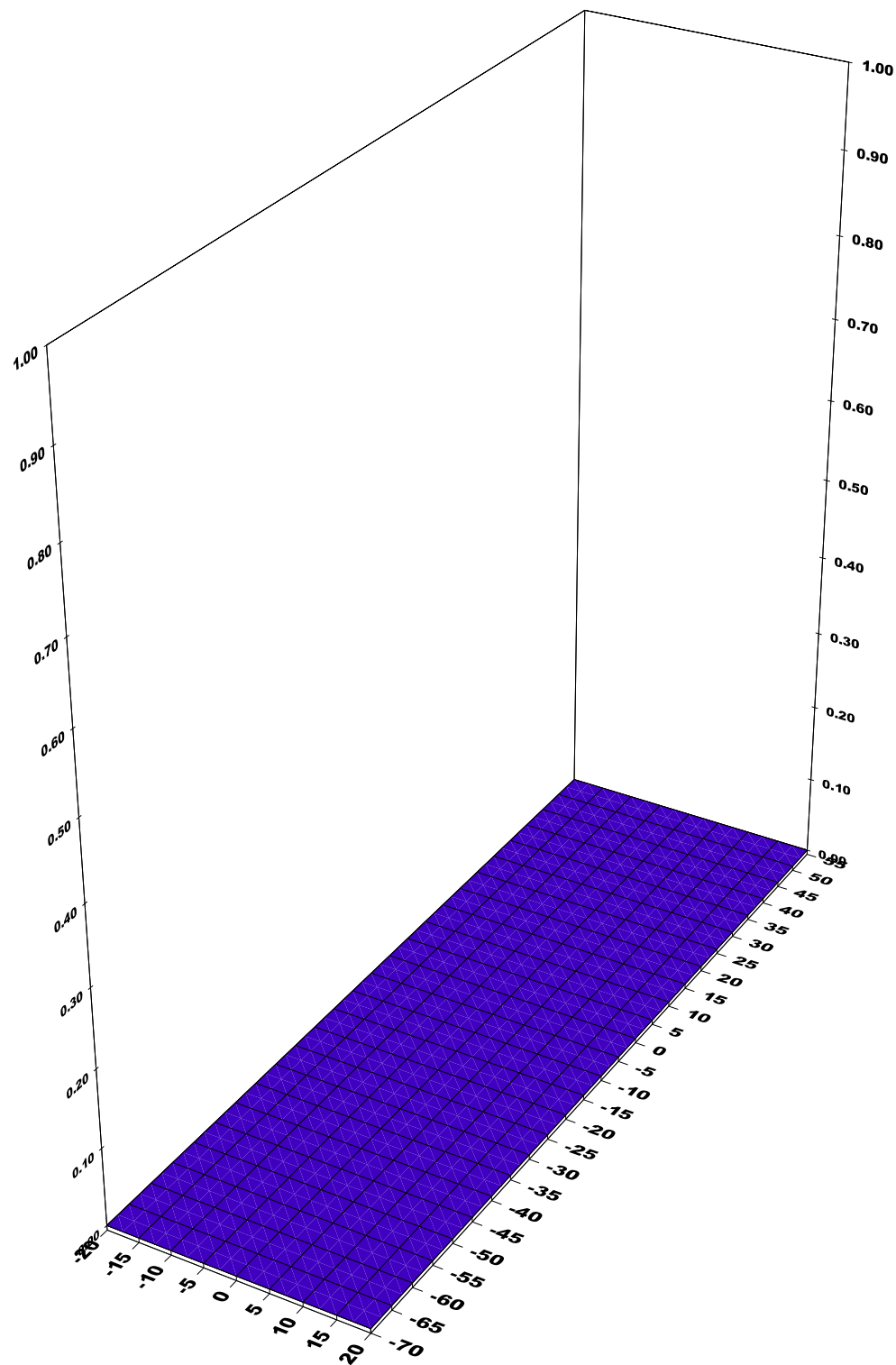
Location of Maximum Field :

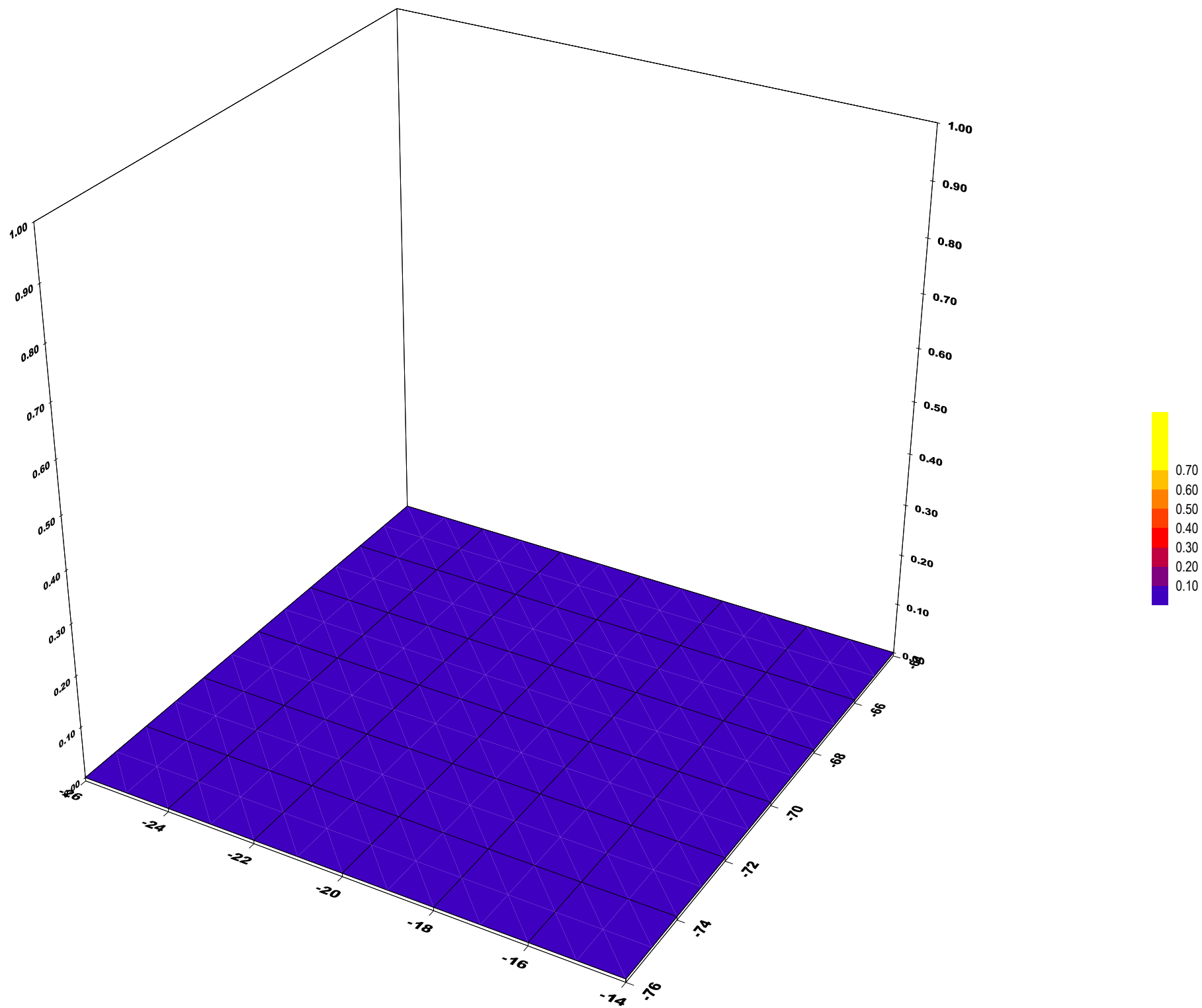
X = -26 Y = -76

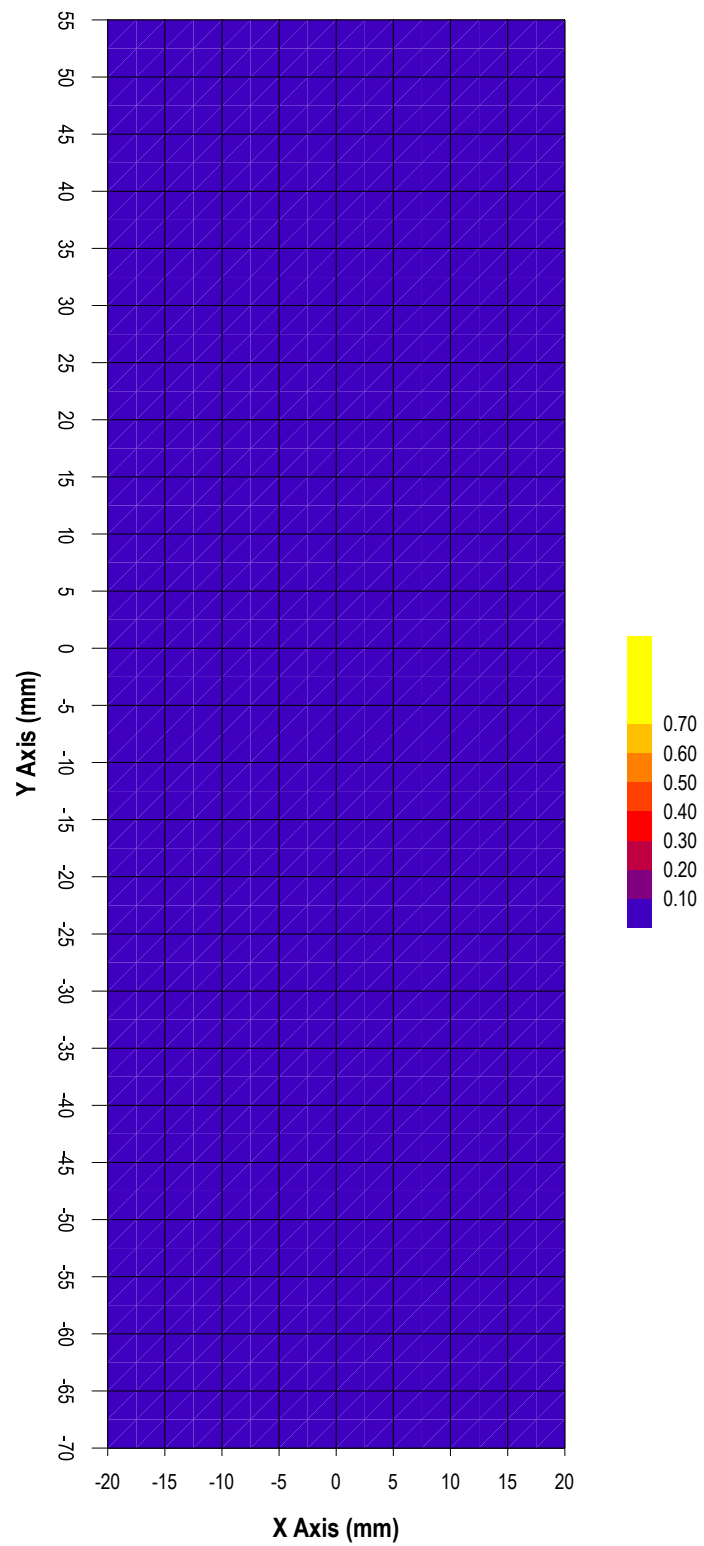
Measured Values (mV) :

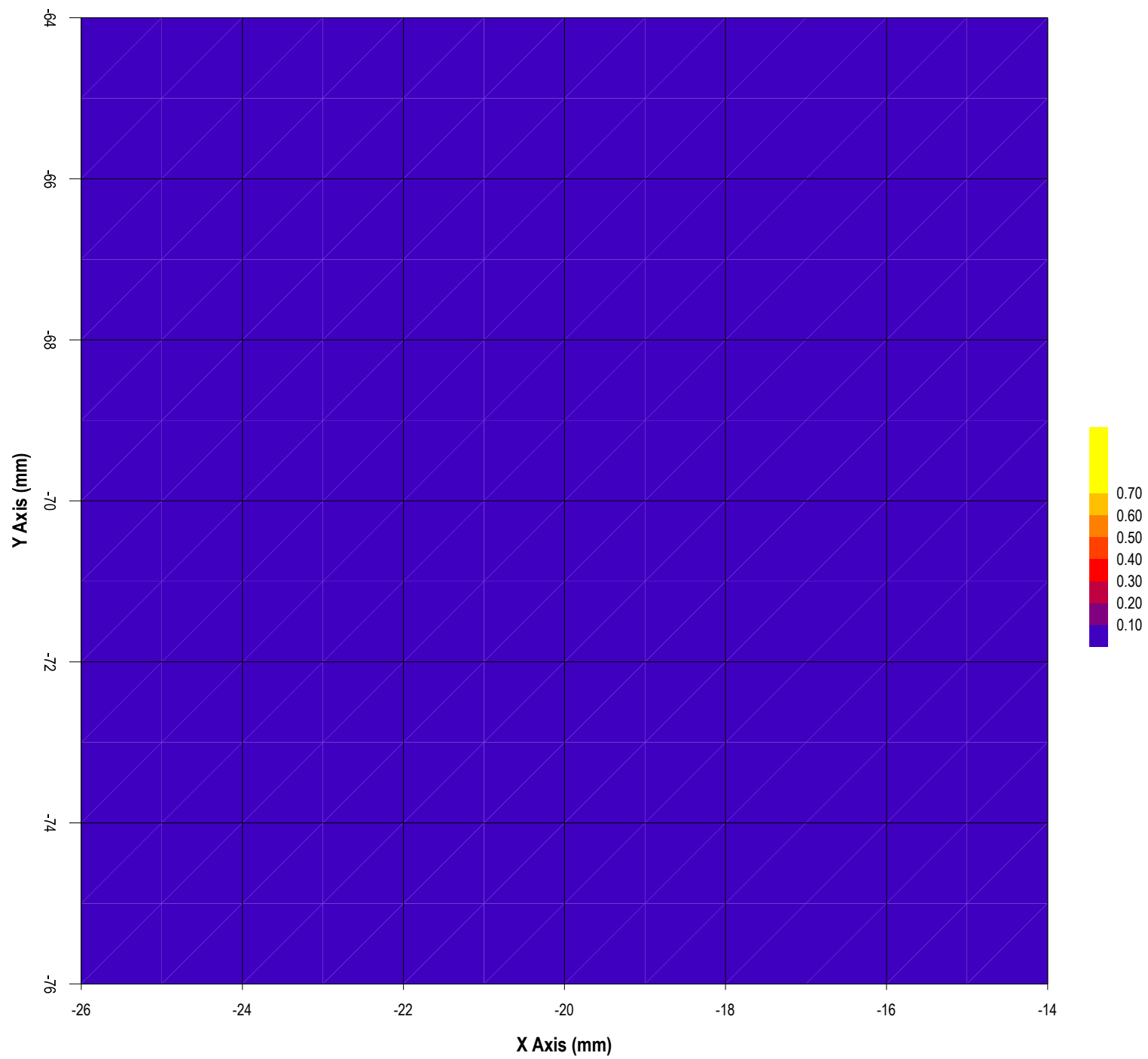
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	

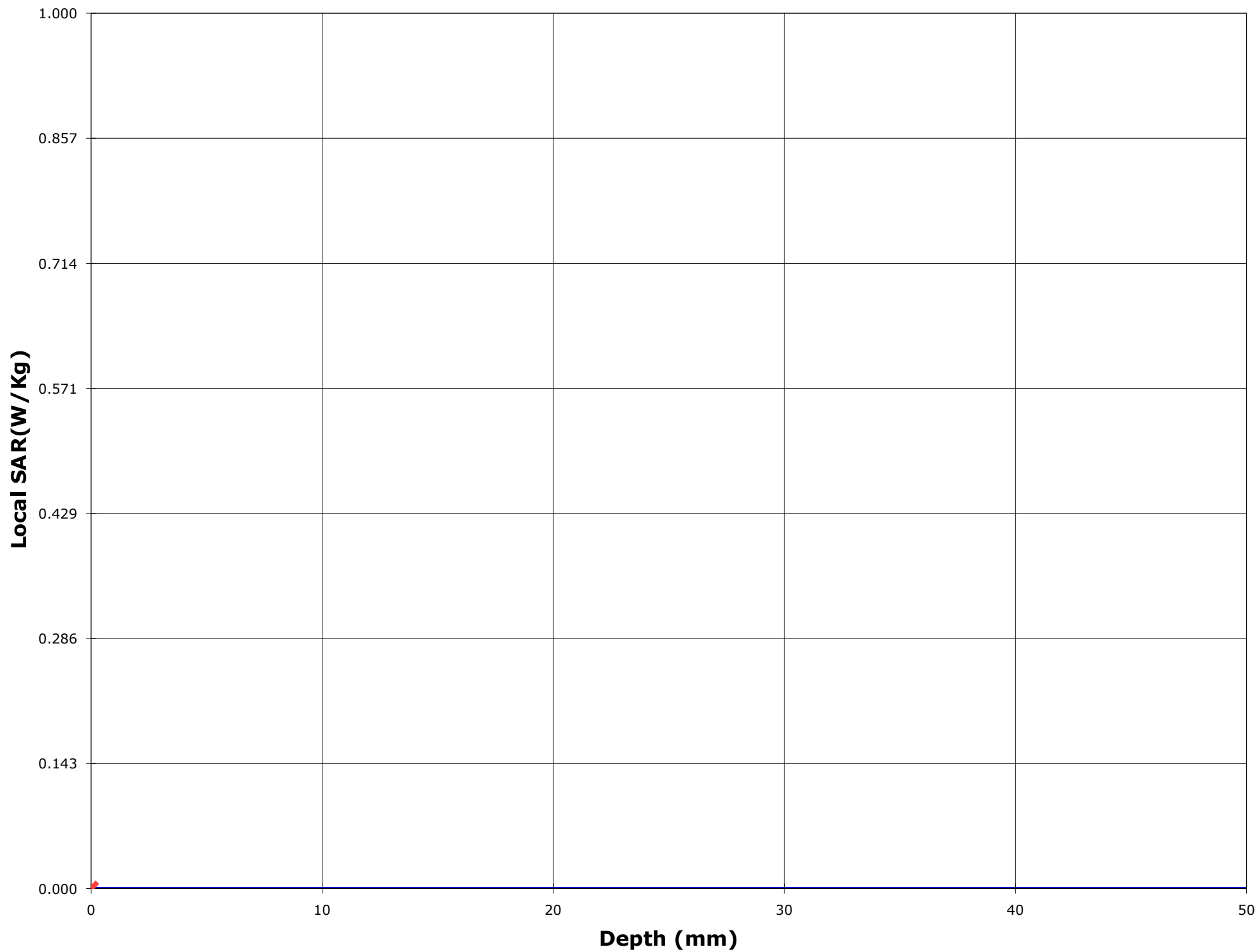
<u>Peak Voltage (mV)</u>	: 0.000	<u>1 Cm Voltage (mV)</u>	: 0.000	<u>SAR (W/Kg)</u>	: 0.000
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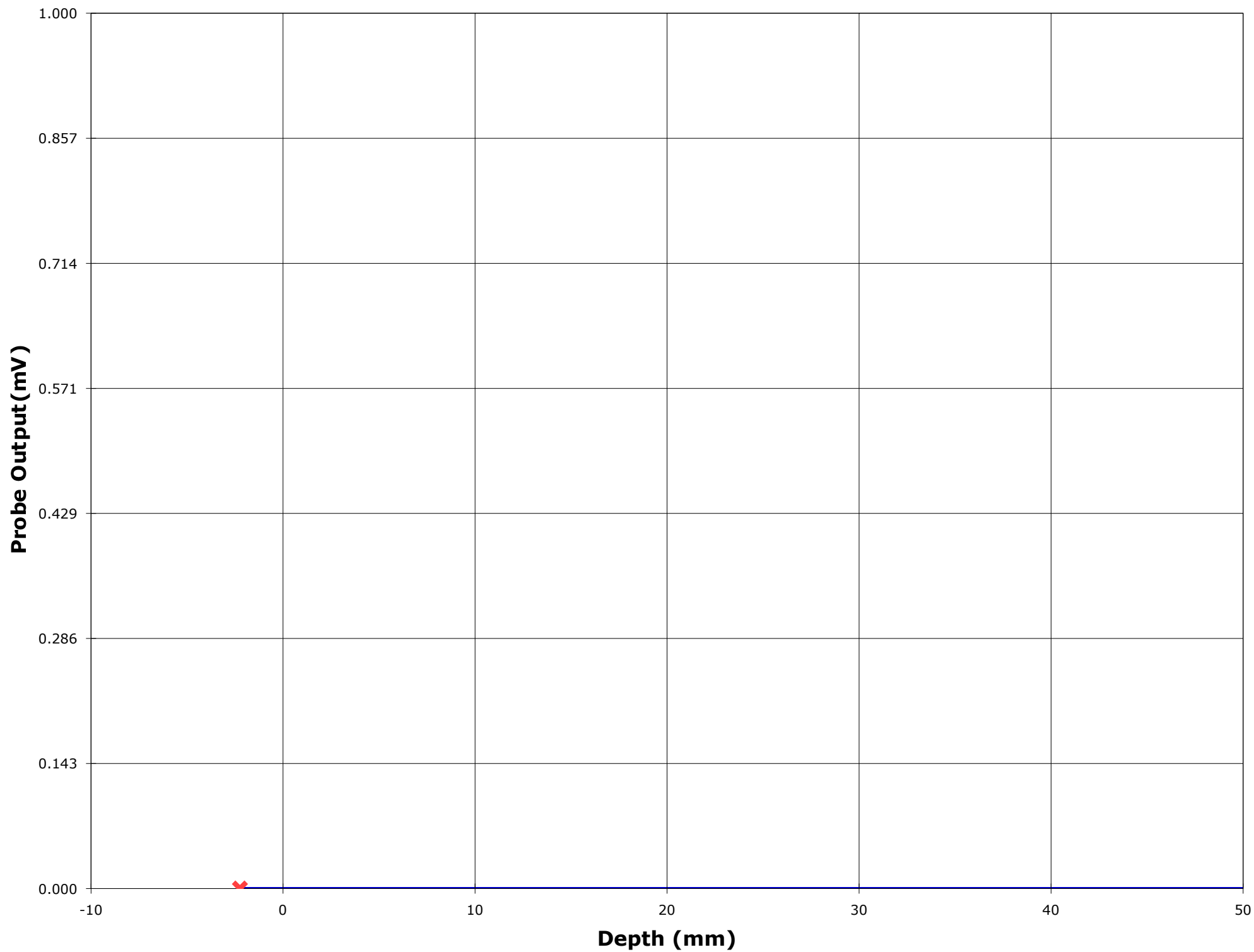


EXHIBIT 9. TISSUE CALIBRATION

The tissue conductivity was calibrated in accordance with IEEE Std 1528-200X, Draft 6.1 November 14, 2000, Sponsor IEEE SCC 34.

ULTRATECH GROUP OF LABS

3000 Bristol Circle, Oakville, Ontario, Canada L6H 6G4

Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: yhk.ultratech@sympatico.ca, Website: <http://www.ultratech-labs.com>

**File #: PAN-005-SAR
November 14, 2001**

- Assessed by ITI (UK) Competent Body, NVLAP (USA) Accreditation Body & ACA/AUSTEL (Australia), VCCI (Japan)
- Accredited by Industry Canada (Canada) under ACC-LAB (Europe/Canada MRA and APEC/Canada MRA)
- Recognized/Listed by FCC (USA)
- All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

Ultratech Group of Labs.
3000 Bristol Circle Road
Oakville, Ontario
Canada L6H 6G4

Phone (905) 829-1570
FAX (905) 829-8050
Email vkh.ultratech@sympatico.ca

Name: **Wayne**

Date: **10/24/2001**

Frequency: **2,450** MHz

Mixture: **Muscle**

Room Temp.: **23.0** $\pm 1^{\circ}\text{C}$

of Points: **9**

Point Dist: **0.5** cm

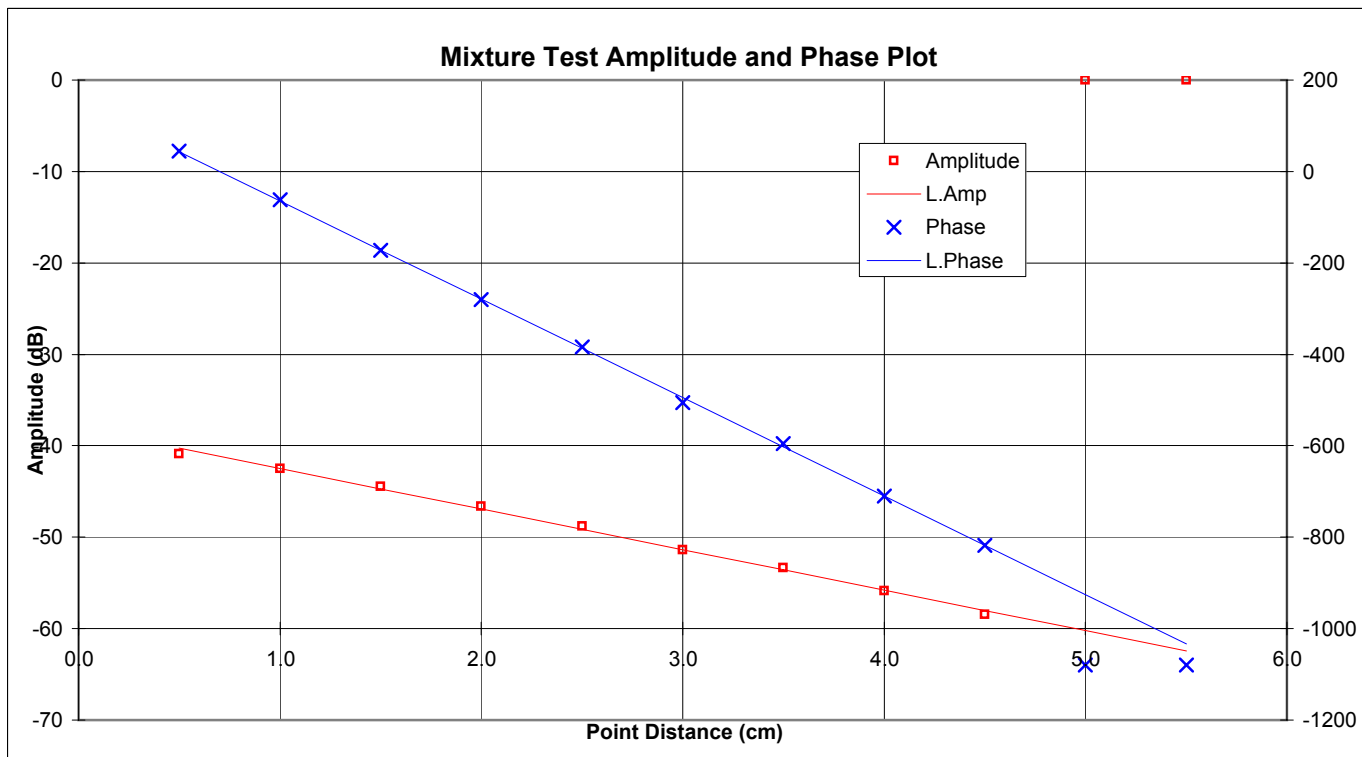
Point	Amplitude	Phase
1	-40.87	43.93
2	-42.52	-61.78
3	-44.43	-172.95
4	-46.65	79.14
5	-48.79	-23.30
6	-51.35	-145.73
7	-53.33	124.47
8	-55.85	9.66
9	-58.47	-97.97
10	0.00	0.00
11	0.00	0.00

Sucrose (98 %) ←
2-(2-ButoxyEthoxy) Ethanol ←
Sodium Chloride (99+ %) ←
Hydroxyethyl Cellulose ←

Composition		
	weight	% by weight
DI Water	48,310.0 g	72.42 %
Sugar	0.0 g	0.00 %
Alcohol	17,600.0 g	26.38 %
Salt	800.0 g	1.20 %
HEC	0.0 g	0.00 %
Bactericide	0.0 g	0.00 %
1,2-propanedio	0.0 g	0.00 %
	0.0 g	0.00 %
	0.0 g	0.00 %
Total	66,710.0 g	100.00 %

Results:		Target	Low Limit	High Limit	% Off Target
D. Const:	52.64	52.70	50.065	55.335	-0.11
Conductivity:	1.98	1.95	1.853	2.048	1.66

$\omega(\text{rad/sec})$	1.539E+10
$\epsilon_0(\text{F/m})$	8.854E-12
$\mu(\text{H/m})$	1.257E-06
$\alpha_{\text{avg}}(\text{Np/cm})$	-0.50991
$\beta_{\text{avg}}(\text{rad/cm})$	-3.76018



Ultratech Group of Labs.
3000 Bristol Circle Road
Oakville, Ontario
Canada L6H 6G4

Phone (905) 829-1570
FAX (905) 829-8050
Email vhk.ultratech@sympatico.ca

Name: **Jay**

Date: **10/23/2001**

Frequency: **2,450** MHz

Mixture: **Brain**

Room Temp.: **22.5** $\pm 1^{\circ}\text{C}$

of Points: **11**

Point Dist: **0.5** cm

Point	Amplitude	Phase
1	-42.62	-10.16
2	-44.78	-112.12
3	-47.05	158.55
4	-50.28	73.08
5	-52.29	-27.35
6	-54.83	-119.35
7	-57.97	146.48
8	-60.21	56.39
9	-62.91	-37.09
10	-65.61	-131.29
11	-68.61	134.10

Sucrose (98 %) ←
2-(2-ButoxyEthoxy) Ethanol ←
Sodium Chloride (99+ %) ←
Hydroxyethyl Cellulose ←

Composition		
	weight	% by weight
DI Water	31,980.0 g	53.30 %
Sugar	0.0 g	0.00 %
Alcohol	28,020.0 g	46.70 %
Salt	0.0 g	0.00 %
HEC	0.0 g	0.00 %
Bactericide	0.0 g	0.00 %
1,2-propanedio	0.0 g	0.00 %
	0.0 g	0.00 %
	0.0 g	0.00 %
Total	60,000.0 g	100.00 %

Results:		Target	Low Limit	High Limit	% Off Target
D. Const:	38.70	39.20	37.240	41.160	-1.27
Conductivity:	2.01	1.80	1.710	1.890	11.91

$\omega(\text{rad/sec})$	1.539E+10
$\epsilon_0(\text{F/m})$	8.854E-12
$\mu(\text{H/m})$	1.257E-06
$\alpha_{\text{avg}}(\text{Np/cm})$	-0.59945
$\beta_{\text{avg}}(\text{rad/cm})$	-3.25007

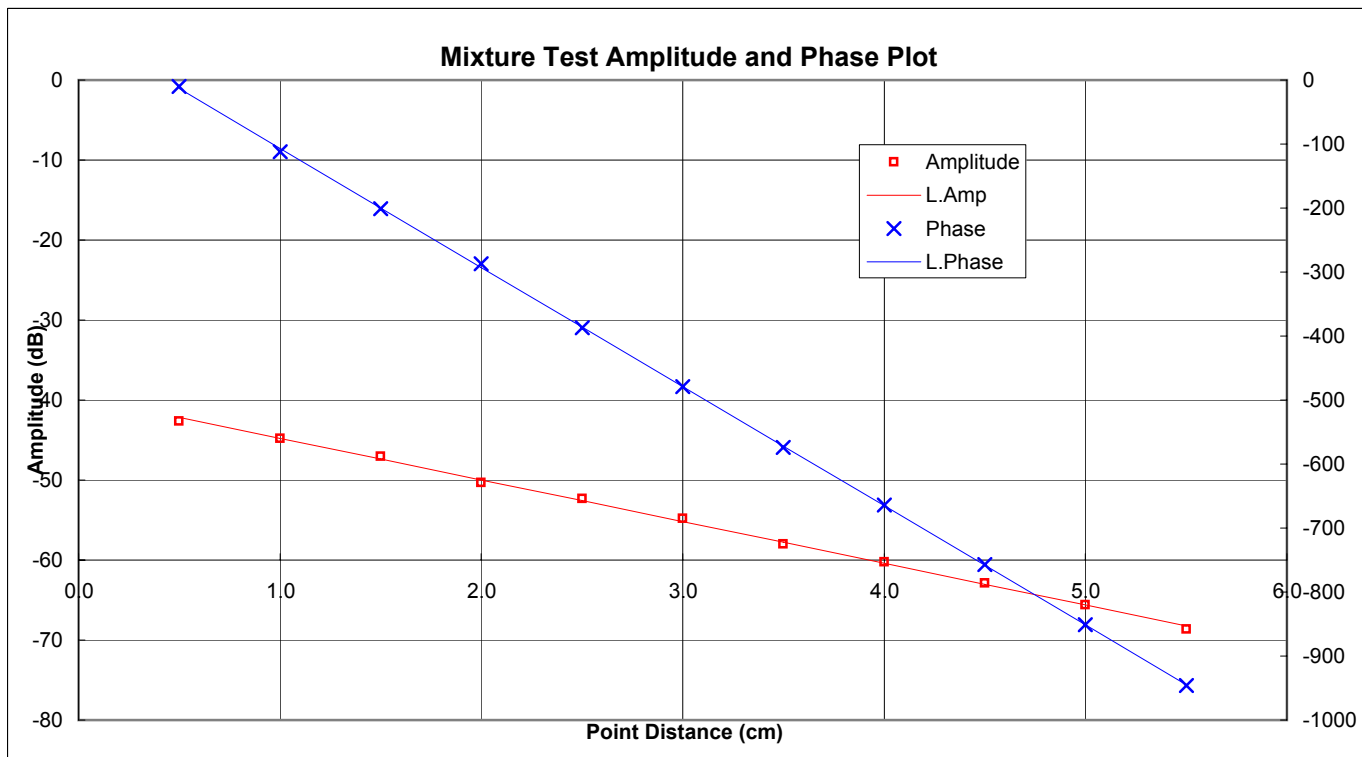


EXHIBIT 10. PROBE CALIBRATION FREE SPACE

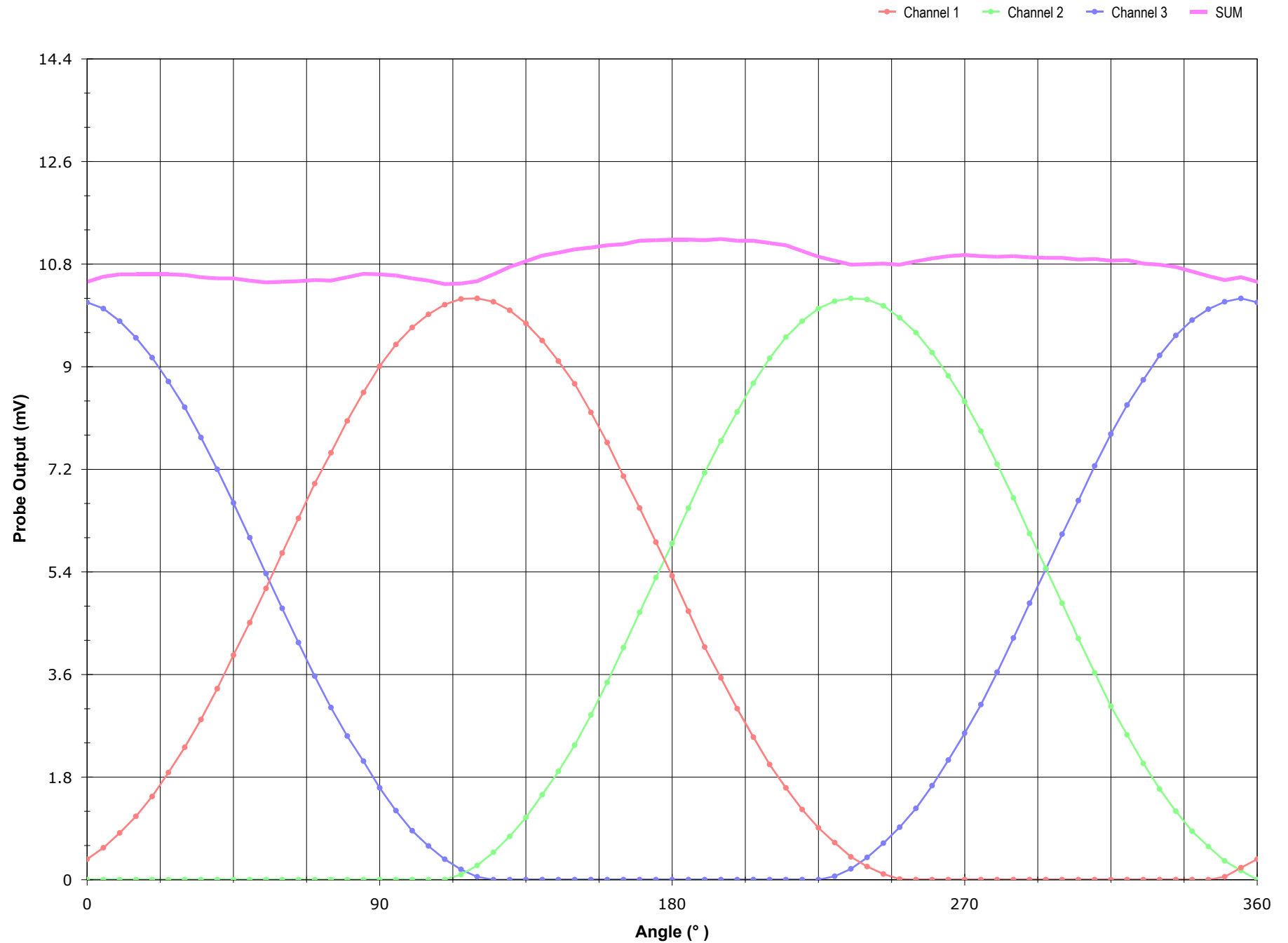
ULTRATECH GROUP OF LABS

3000 Bristol Circle, Oakville, Ontario, Canada L6H 6G4
Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: yhk.ultratech@sympatico.ca, Website: <http://www.ultratech-labs.com>

File #: PAN-005-SAR
November 14, 2001

- Assessed by ITI (UK) Competent Body, NVLAP (USA) Accreditation Body & ACA/AUSTEL (Australia), VCCI (Japan)
- Accredited by Industry Canada (Canada) under ACC-LAB (Europe/Canada MRA and APEC/Canada MRA)
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- All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

Probe Name : UT-ETR-0200-1
Type : E-field (Triangular beam), Offset(mm) : 2.25
Frequency(MHz) : 2450
Amplifier Setting : 0.00447186, 0.00433385, 0.00535965
Calibrated Date : 24/10/2001 3:19:02 PM



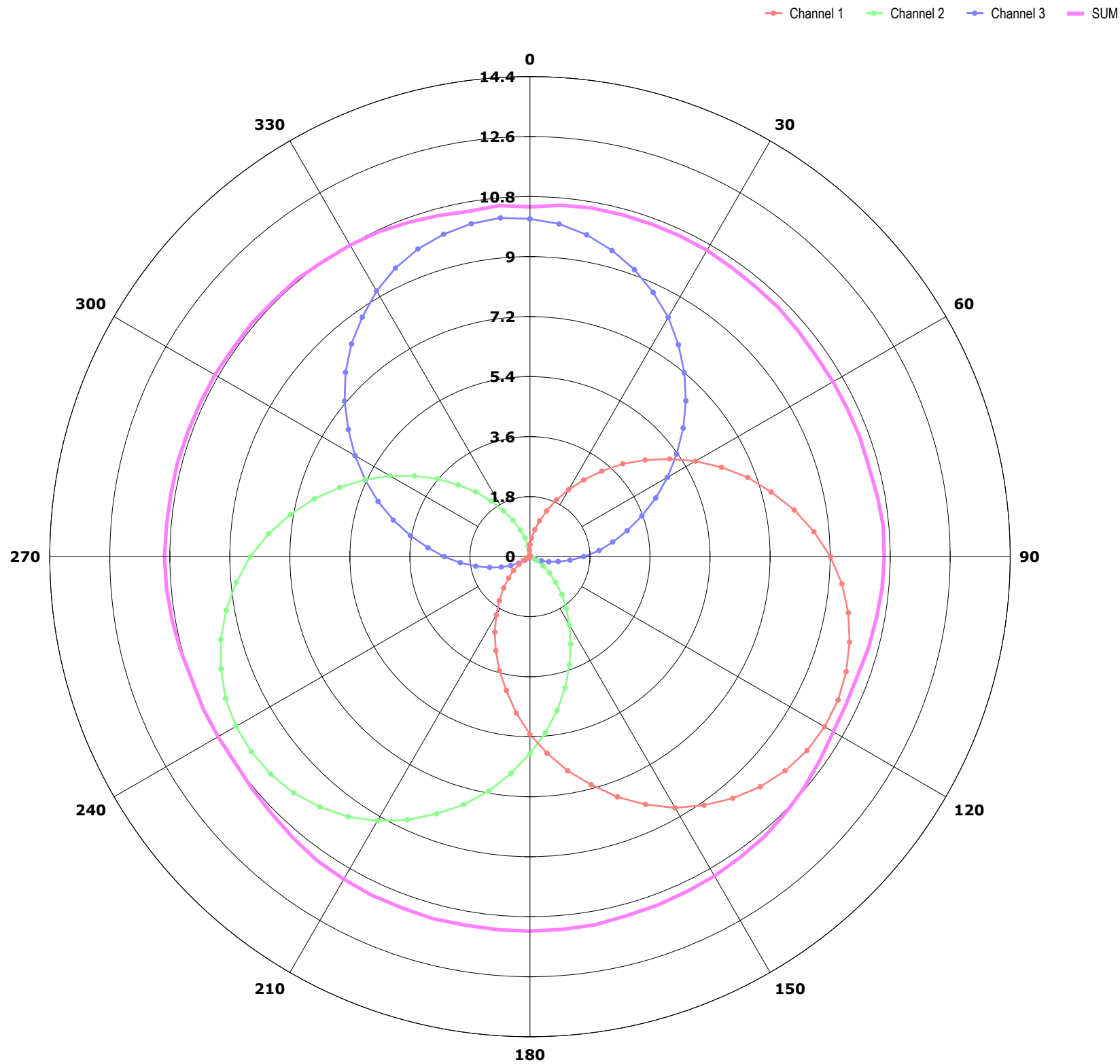


EXHIBIT 11. PROBE TEMPERATURE TRANSFER CALIBRATION FOR BODY TISSUE

ULTRATECH GROUP OF LABS

3000 Bristol Circle, Oakville, Ontario, Canada L6H 6G4

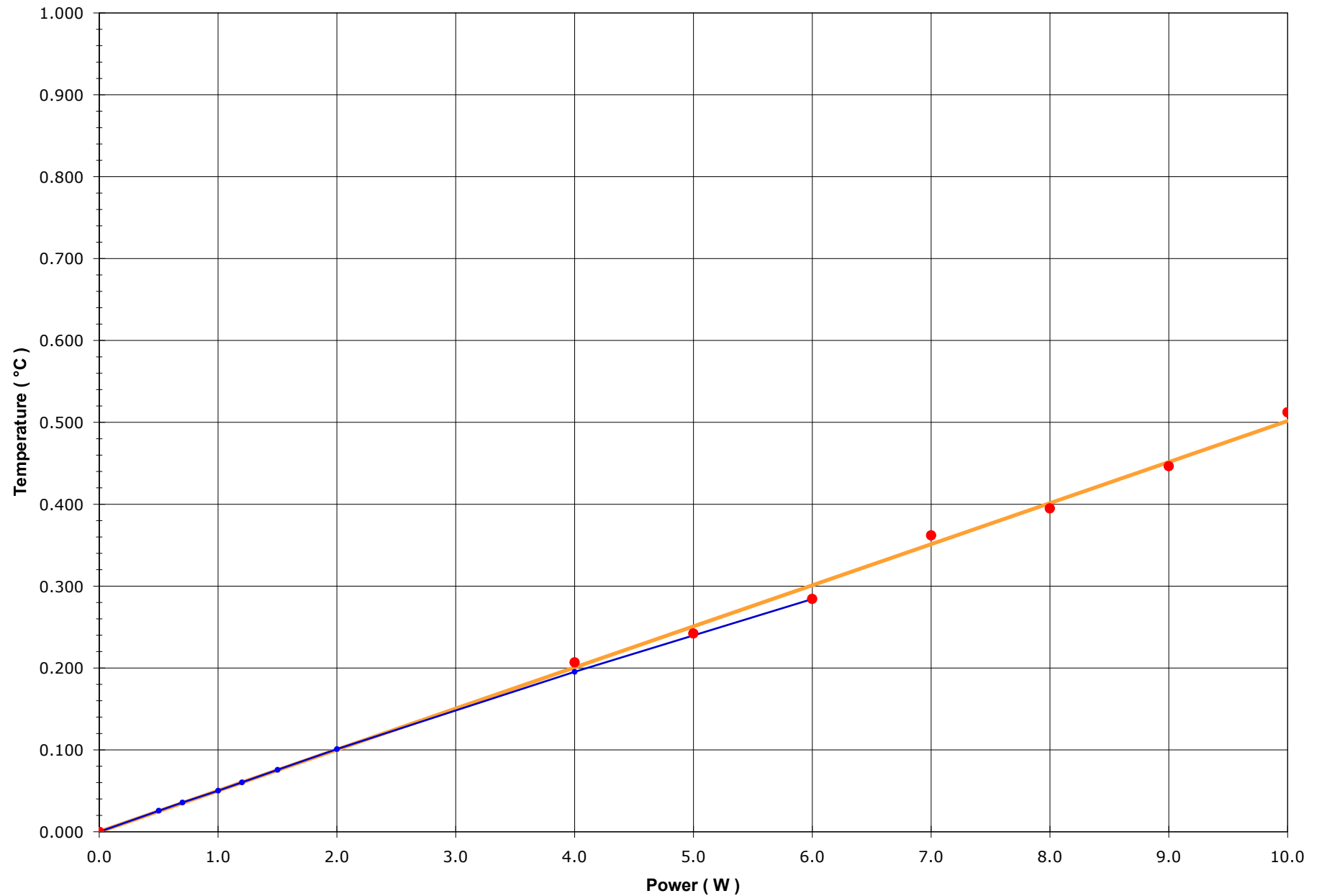
Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: yhk.ultratech@sympatico.ca, Website: <http://www.ultratech-labs.com>

**File #: PAN-005-SAR
November 14, 2001**

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- Recognized/Listed by FCC (USA)
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Probe Name : UT-ETR-0200-1
Type : E-field (Triangular beam), Offset(mm) : 2.25
Frequency(MHz) : 2450, Conversion Factor : 3.4667
Simulated Tissue Type : Muscle
Dielectrical Const. : 49.99, Conductivity : 2.30
Temperature - Simulated Tissue : 22.9°C, Room : 22.0°C
Calibrated Date : 29/06/2001 9:12:34 PM

● Temperature ● E-Field — Linear Fit



E-Field & Diode Compensation

Channel 1 Channel 2 Channel 3

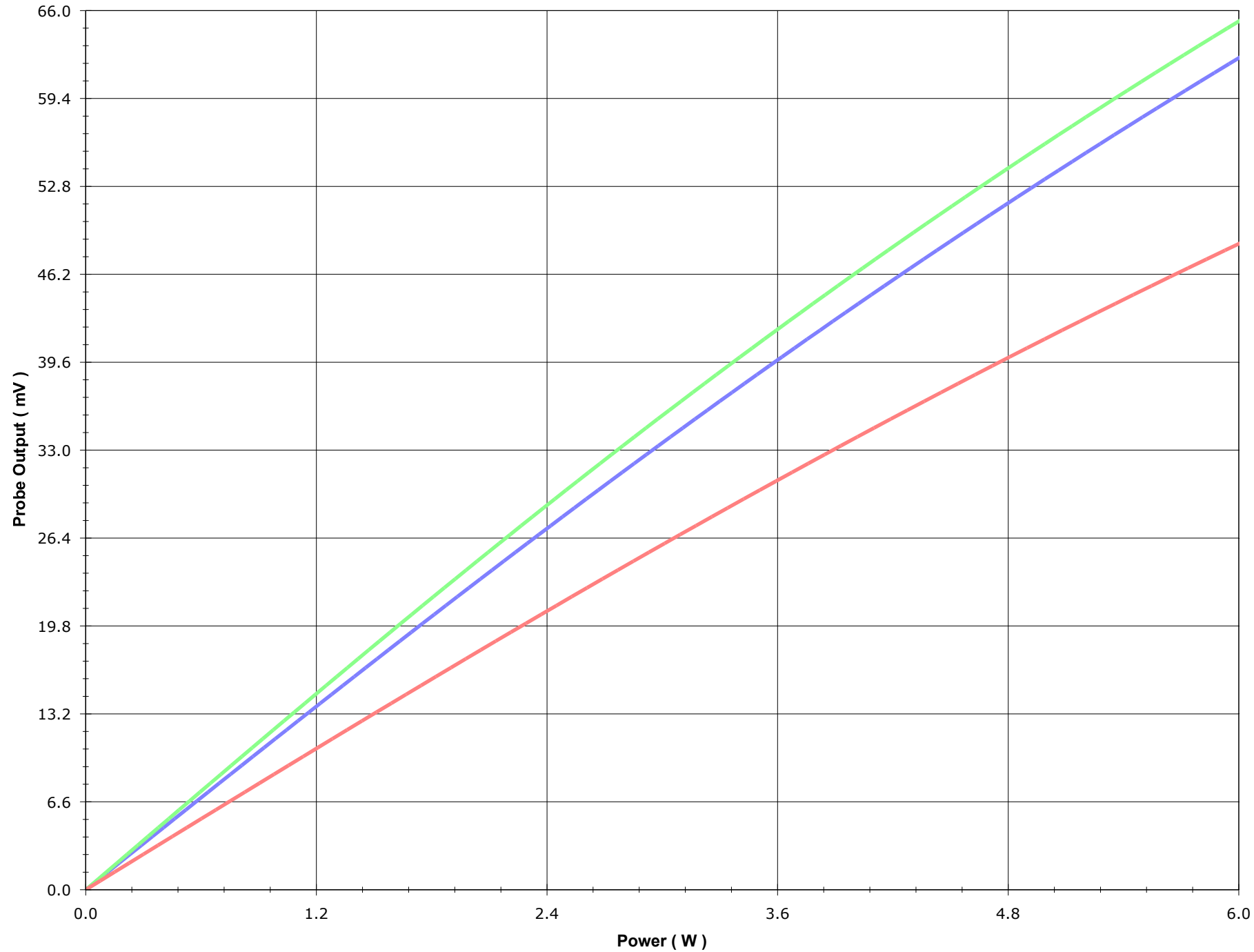


EXHIBIT 12. PROBE TEMPERATURE TRANSFER CALIBRATION FOR HEAD TISSUE

ULTRATECH GROUP OF LABS

3000 Bristol Circle, Oakville, Ontario, Canada L6H 6G4

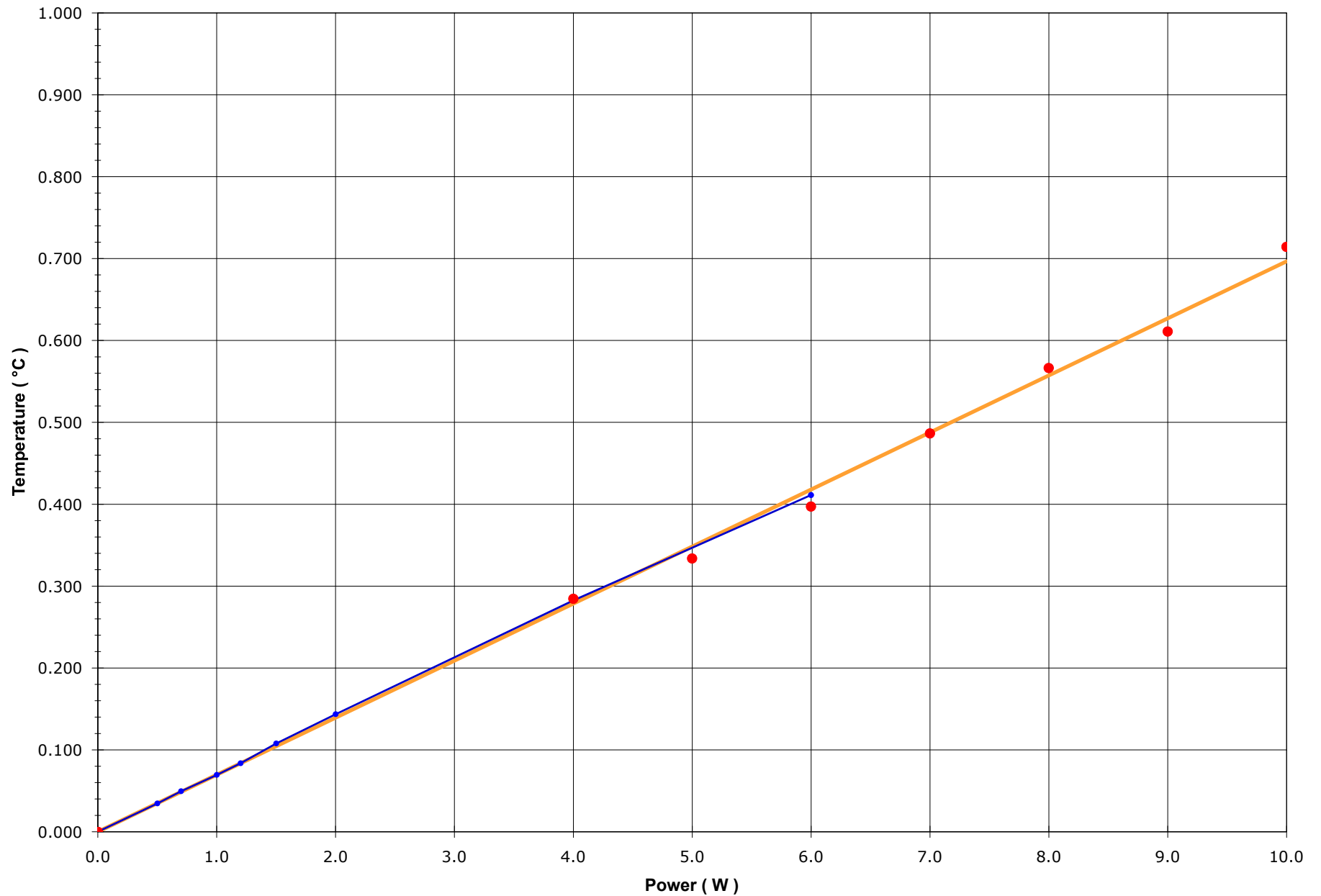
Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: yhk.ultratech@sympatico.ca, Website: <http://www.ultratech-labs.com>

**File #: PAN-005-SAR
November 14, 2001**

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- Accredited by Industry Canada (Canada) under ACC-LAB (Europe/Canada MRA and APEC/Canada MRA)
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- All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

Probe Name : UT-ETR-0200-1
Type : E-field (Triangular beam), Offset(mm) : 2.25
Frequency(MHz) : 2450, Conversion Factor : 4.4824
Simulated Tissue Type : Brain
Dielectrical Const. : 38.7, Conductivity : 2.01
Temperature - Simulated Tissue : 21.0°C, Room : 22.5°C
Calibrated Date : 24/10/2001 7:17:05 PM

● Temperature ● E-Field — Linear Fit



E-Field & Diode Compensation

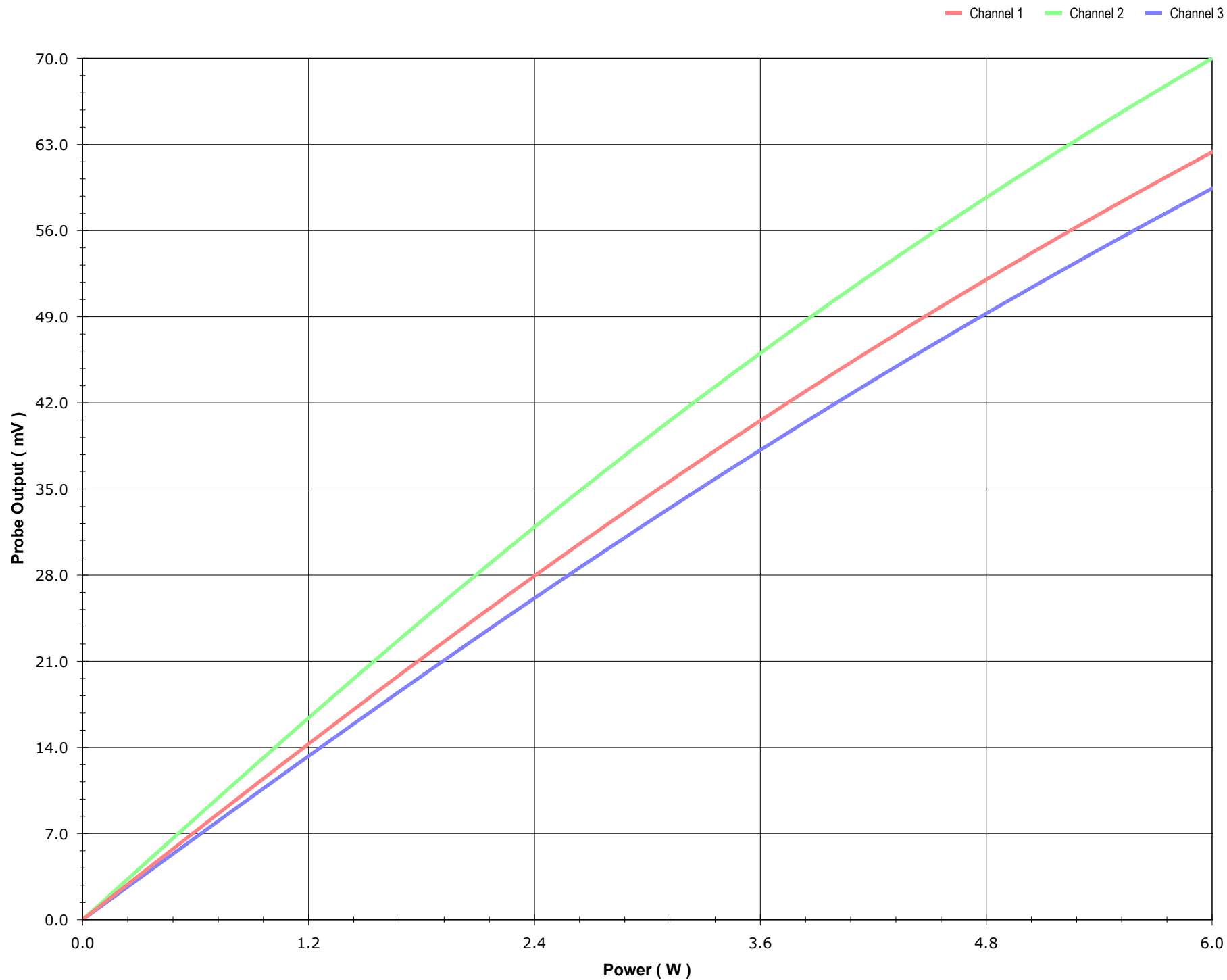
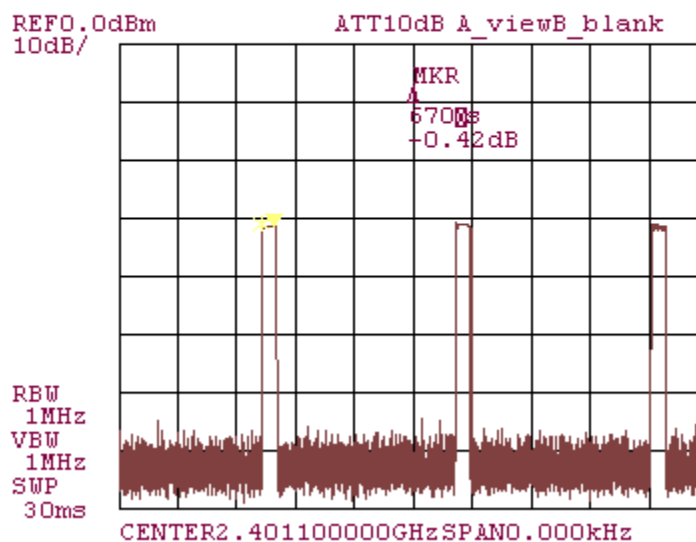


EXHIBIT 13. DUTY CYCLE



$$\text{Duty Cycle} = 670 \mu\text{S} / 9.7 \text{ ms} * 100 \approx 7 \%$$

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3000 Bristol Circle, Oakville, Ontario, Canada L6H 6G4
Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: yhk.ultratech@sympatico.ca, Website: <http://www.ultratech-labs.com>

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