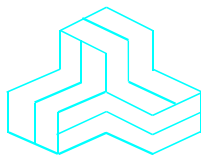


ENGINEERING TEST REPORT



ANNEX 1. WORKABOUT PRO G2 Handheld Computer Co-Location RFID and Bluetooth Model No.: 7527S

Tested For

Psion Teklogix Inc.
2100 Meadowvale Blvd.
Mississauga, ON
Canada, L5N 7J9

In Accordance With

**SAR (Specific Absorption Rate) Requirements
using guidelines established in IEEE Standard C95.1,
FCC OET Bulletin 65 (Supplement C),
Industry Canada RSS-102(Issue 2),
EN 50360 (Council Recommendation 1999/519/EC) and
ACA 2003 / ARPANSA Standard**

UltraTech's File No.: TEK-596-SAR

This Test report is Issued under the Authority of
Tri M. Luu, Professional Engineer,
Vice President of Engineering
UltraTech Group of Labs



Date: July 16, 2007

Report Prepared by:
JaeWook Choi

Issued Date:
July 16, 2007

Tested by:
Carolyn Luu

Test Dates:
July 04, 2007

The results in this Test Report apply only to the sample(s) tested, which has been randomly selected.

UltraTech

3000 Bristol Circle, Oakville, Ontario, Canada, L6H 6G4
Telephone (905) 829-1570 Facsimile (905) 829-8050
Website: www.ultratech-labs.com Email: vic@ultratech-labs.com

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EXHIBIT 1. PERFORMANCE ASSESSMENT

1.1. CLIENT AND MANUFACTURER INFORMATION

APPLICANT:	
Name:	Psion Teklogix Inc.
Address:	2100 Meadowvale Blvd. Mississauga, ON Canada, L5N 7J9
Contact Person:	Mr. Sada Dharwarkar Phone #: +1.905.812.6200 ext. 3358 Fax #: +1.905.812.6301 Email Address: Sada.dharwarkar@psionteklogix.com

MANUFACTURER:	
Name:	Psion Teklogix Inc.
Address:	2100 Meadowvale Blvd. Mississauga, ON Canada, L5N 7J9
Contact Person:	Mr. Sada Dharwarkar Phone #: +1.905.812.6200 ext. 3358 Fax #: +1.905.812.6301 Email Address: Sada.dharwarkar@psionteklogix.com

1.2. DEVICE UNDER TEST (D.U.T.) DESCRIPTION

The following is the information provided by the applicant.

Trade Name	Psion Teklogix WORKABOUT PRO
Product Description	Handheld Computer
Type/Model Number	7527S (BTL040 Bluetooth module)
Frequency of Operation	2402 ~ 2480 MHz
Rated RF Output Power	0.59 dBm conducted
Modulation Employed	Bluetooth
Antenna	Type: Chip antenna Frequency Range: 2400 – 2483.5 MHz Gain: 4.1 dBi
Power Supply	Lithium Ion Rechargeable 3000 mAh Battery (3.7 V), Psion Teklogix Model No.: WA3006
Primary User Functions of D.U.T.	Provide data communication link through air

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1.3. GENERAL TEST CONFIGURATIONS

1.3.1. Equipment Configuration

Power and signal distribution, grounding, interconnecting cabling and physical placement of equipment of a test system shall simulate the typical application and usage in so far as is practicable, and shall be in accordance with the relevant product specifications of the manufacturer.

The configuration that tends to maximize the D.U.T.'s emission or minimize its immunity is not usually intuitively obvious and in most instances selection will involve some trial and error testing. For example, interface cables may be moved or equipment re-orientated during initial stages of testing and the effects on the results observed.

Only configurations within the range of positions likely to occur in normal use need to be considered.

The configuration selected shall be fully detailed and documented in the test report, together with the justification for selecting that particular configuration.

1.3.2. Exercising Equipment

The exercising equipment and other auxiliary equipment shall be sufficiently decoupled from the D.U.T. so that the performance of such equipment does not significantly influence the test results.

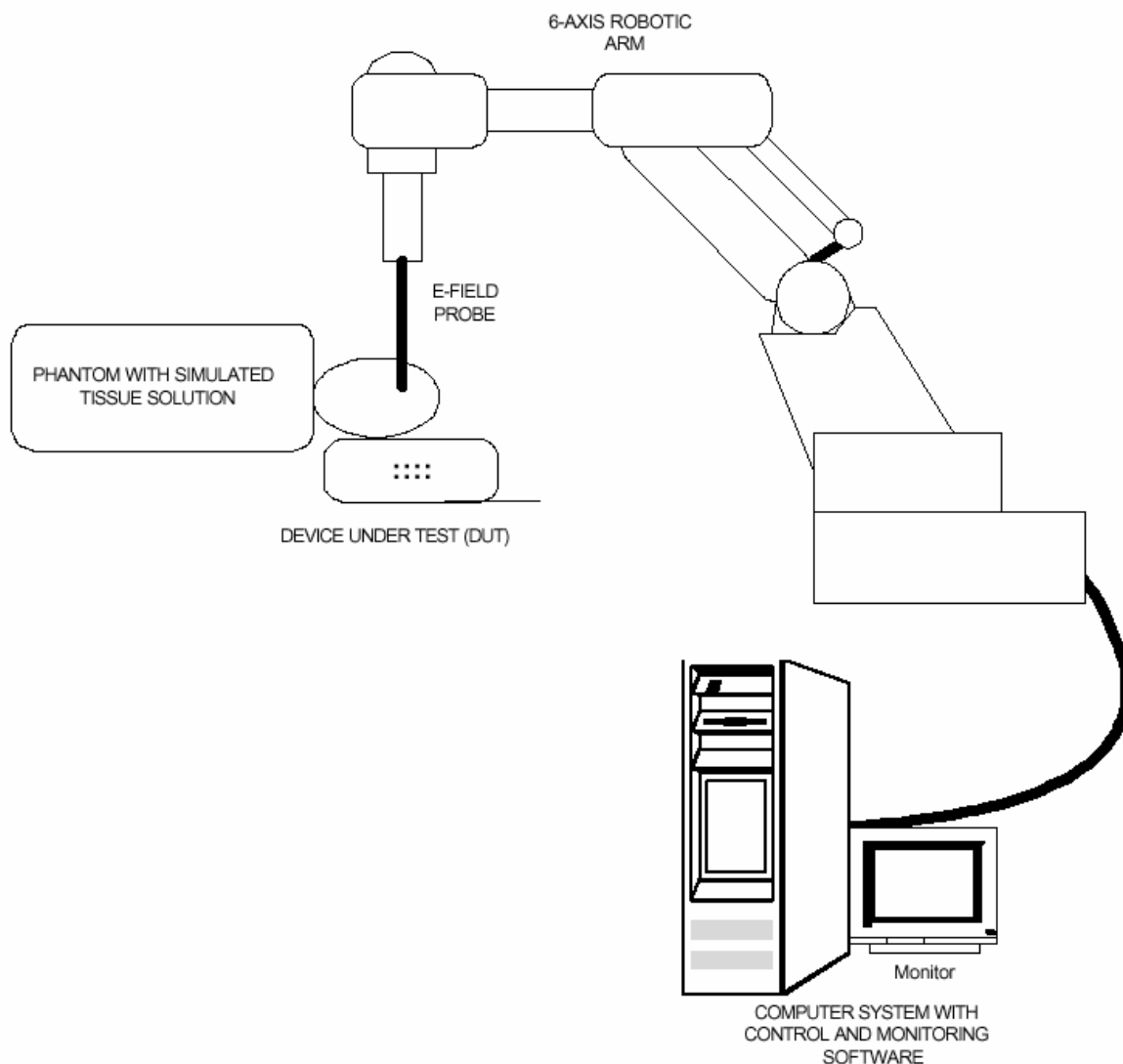
1.4. SPECIFIC OPERATING CONDITIONS

N/A

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1.5. BLOCK DIAGRAM OF TEST SETUP

The D.U.T. was configured as normal intended use. The following block diagram shows a representative equipment arrangement during tests:



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EXHIBIT 2. SUMMARY OF TEST RESULTS

2.1. LOCATION OF TESTS

All of the measurements described in this report were performed at UltraTech Group of Labs located at:

3000 Bristol Circle, in the city of Oakville, Province of Ontario, Canada.

All measurements were performed in UltraTech's shielded chamber, 24' x 16' x 8'.

2.2. APPLICABILITY & SUMMARY OF SAR RESULTS

Co-location of RFID and Bluetooth module (M/N: BTL040) in the 7527S had been addressed in this test report.

Since RFID and Bluetooth operates at the different frequency range, SAR evaluation was performed independently for each frequency using appropriate probe calibration and tissue dielectric parameter in the identical device positioning condition. The worst case measurement result was summed to verify and confirm the compliance of RF exposure safety requirement.

2.2.1. Maximum Peak Spatial-Average SAR for RFID

#	Configuration	Device Test Positions	Antenna Position	Freq. [MHz]	Channel	MAX. SAR _{1g} [W/Kg]
*	General Population/Uncontrolled Exposure Category Limit					1.6
02	Top of DUT perpendicular to the phantom with spacing of 15 mm	Body	Integrated	915.25	Middle	0.53

2.2.2. Maximum Peak Spatial-Average SAR for Bluetooth

#	Configuration	Device Test Positions	Antenna Position	Freq. [MHz]	Channel	MAX. SAR _{1g} [W/Kg]
*	General Population/Uncontrolled Exposure Category Limit					1.6
02	Top of DUT perpendicular to the phantom with spacing of 15 mm	Body	Integrated	2441	39	< 0.01

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2.2.3. Maximum Peak Spatial-Average SAR for Co-location RFID and Bluetooth

(Maximum Peak Spatial-Average SAR for RFID) + (Maximum Peak Spatial-Average SAR for Bluetooth)

$$= 0.53 + (\text{less than } 0.01) = 0.53$$

The maximum peak spatial - average SAR measured was found to be less than 0.53 W/Kg.

Exposure Category and SAR Limits	Test Requirements	Compliance (Yes/No)
General population/Uncontrolled exposure 0.08W/kg whole body average and spatial peak SAR of 1.6W/kg , averaged over 1gram of tissue Hands, wrist, feet and ankles have a peak SAR not to exceed 4 W/kg, averaged over 10 grams of tissue.	Requirements using guidelines established in IEEE C95.1-1991 FCC OET Bulletin 65 (Supplement C Edition 01-01) Industry Canada RSS-102 (Issue 2). ACA Radiocommunications (Electromagnetic Radiation – Human Exposure) Amendment Standard 2000 (No. 1)	YES
Occupational/Controlled Exposure 0.4W/kg whole body average and spatial peak SAR of 8W/kg , averaged over 1gram of tissue Hands, wrist, feet and ankles have a peak SAR not to exceed 20 W/kg, averaged over 10 grams of tissue.	Requirements using guidelines established in IEEE C95.1-1991 FCC OET Bulletin 65 (Supplement C Edition 01-01), Industry Canada RSS-102 (Issue 2) ACA Radiocommunications (Electromagnetic Radiation – Human Exposure) Amendment Standard 2000 (No. 1)	N/A

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EXHIBIT 3. MEASUREMENTS, EXAMINATIONS & TEST DATA

3.1. TEST SETUP

D.U.T. Information		Condition	
Product Name	WORKABOUT PRO G2 Handheld Computer (Bluetooth module)	Robot Type	6 Axis
Model Number	7527S (BTL040)	Scan Type	SAR – Area/Zoom/Att Vs Depth
Serial Number	N/A	Measured Field	E
Operating Frequency [MHz]	2400 ~ 2483.5	Phantom Type	2 _{mm} base Flat Phantom
Frequency Tested [MHz]	2402, 2441, 2480	Phantom Position	Waist
Measured RF Output Power [dBm]	0.59 dBm conducted	Room Temperature [°C]	21.0 ± 1
Antenna Type	Chip, Gain: 4.1 dBi	Room Humidity [%]	40 ± 10
Modulation	FHSS	Tissue Temperature [°C]	21.0 ± 1
Worst Case Duty Cycle	100 %		
Duty Cycle Tested	100 %		
Source(or Usage)-based time-average	1		

Type of Tissue	Brain	Muscle
Test Frequency [MHz]	2450	2450
Measured Dielectric Constant	37.8 (-3.5 %)	50.1 (-4.9 %)
Target Dielectric Constant	39.2	52.7
Measured Conductivity [S/m]	1.72 (-4.6 %)	1.90 (-2.7 %)
Target Conductivity [S/m]	1.80	1.95
Penetration Depth (Plane Wave Excitation) [mm]	19.3	20.0
Probe Model Number	ET20	ET20
Probe Serial Number	03JUN-0028	03JUN-0028
Probe Orientation	Isotropic	Isotropic
Probe Offset [mm]	2.00	2.00
Probe Tip Diameter [mm]	4.00	4.00
Sensor Factor (η_{pd}) [mV/(mW/cm ²)]	10.8	10.8
Conversion Factor (γ)	4.566	3.691
Sensitivity (ζ) [W/Kg/mV]	1.315E-01	1.797E-01

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3.2. PHOTOGRAPHS OF D.U.T. POSITION

3.2.1. Body Configuration

3.2.1.1. Top of DUT perpendicular to the phantom with spacing of 15 mm



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EXHIBIT 4. SAR MEASUREMENT

4.1. BODY CONFIGURATION*

4.1.1. Body Worn

#	Configuration	Antenna Position	Frequency [MHz]	Channel	SAR _{local} Before [W/Kg]	SAR _{local} After [W/Kg]	MAX SAR _{1g} [W/Kg]
*	General Population/Uncontrolled Exposure Category Limit						1.6
01	Top of DUT perpendicular to the phantom with spacing of 15 mm	Integrated	2402	00			-
02		Integrated	2441	39	0.00	0.00	Less than 0.01
03		Integrated	2480	78			-

* If the SAR measured at the middle channel for each test configuration is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).

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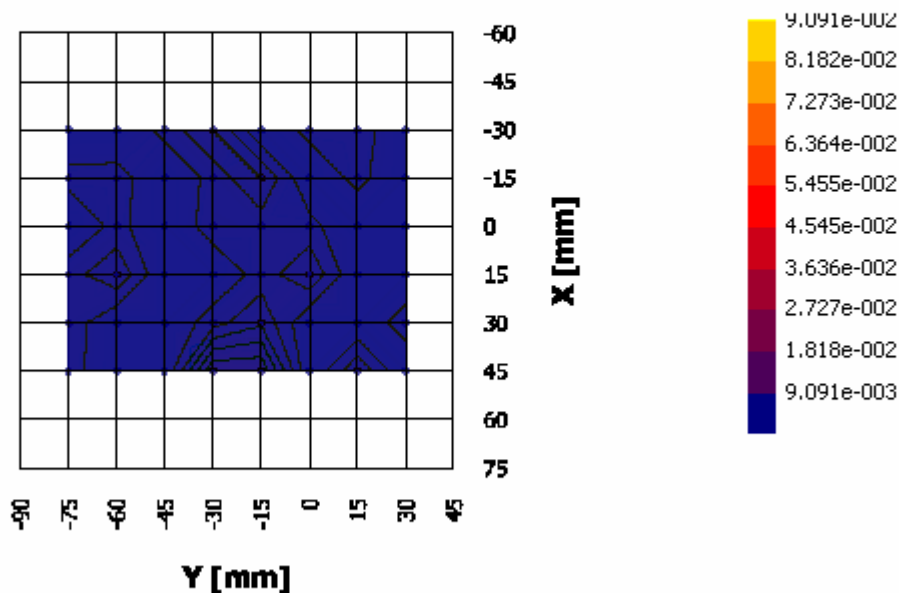
SPECIFIC ABSORPTION RATE (SAR)

Page 11

IEEE C95.1-1991, FCC OET Bulletin 65 (Supplement C), Industry Canada RSS-102(Issue 2) and ACA Radiocommunications (Electromagnetic Radiation – Human Exposure) Amendment Standard 2000 (No. 1)

WORKABOUT PRO G2 Handheld Computer M/N: 7527S**FCC ID: GM37527SBTMPR6XXX****4.1.1.1. Top of D.U.T. perpendicular to the phantom with spacing of 15 mm; #02**

Test date [MM/DD/YYYY]	07/04/2007
Test by	Carolyn Luu
Room temperature [°C]	21
Room humidity [%]	40
Simulated tissue temperature [°C]	21
Separation distance, d [mm]	15
Test frequency [MHz]	2441
E-field Probe	M/N: ET20, S/N:03JUN-0028, Sensor Offset: 2.0 mm
Sensor Factor (η_{pd}) [mV/(mW/cm ²)]	10.8
Amplifier Settings (AS ₁ , AS ₂ , AS ₃)	0.0051459143, 0.0051393192, 0.0049804511
Tissue Type	Muscle
Measured conductivity [S/m]	1.90 (-2.7 %)
Measured dielectric constant	50.1 (-4.9 %)
Conversion Factor (γ)	3.691
Sensitivity (ζ) [W/Kg/mV]	1.797E-01
Source-(or Usage)-Based Time-Average Factor	1.0
Measurement Area Specification (X × Y)	90 mm × 60 mm; Resolution: 15 mm × 15 mm
Measurement Volume Specification (X × Y × Z)	7 pt × 7 pt × 7 pt; Resolution: 5 mm × 5 mm × 5 mm
SAR _{1g} [W/Kg]	Less than 0.01

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EXHIBIT 5. TISSUE DIELECTRIC PARAMETER CALIBRATION

5.1. SIMULATED TISSUE AT 2450 MHZ

Tissue calibration type	HP Dielectric Strength Probe System (M/N: 85070C)	
Tissue calibration date [MM/DD/YYYY]	07/04/2007	07/04/2007
Tissue calibrated by	Carolyn Luu	Carolyn Luu
Room temperature [°C]	21	21
Room humidity [%]	40	40
Simulated tissue temperature [°C]	21	21
Tissue calibration frequency [MHz]	2450	2450
Tissue Type	Brain	Muscle
Target conductivity [S/m]	1.80	1.95
Target dielectric constant	39.2	52.7
Composition (by weight) [%]	DI Water (59.70 %) DGBE (4.76 %) Triton X-100 (35.54 %)	DI Water (76.19 %) DGBE (9.52 %) Triton X-100 (14.29 %)
Measured conductivity [S/m]	1.73 (-4.2 %)	1.90 (-2.7 %)
Measured dielectric constant	37.8 (-3.5 %)	50.1 (-4.9 %)
Penetration depth (plane wave excitation) [mm]	19.3	20.0

5.1.1. 2450 MHz Brain Tissue

Frequency [GHz]	Meas. after 5min			DI Water at 20°C			Init. Meas.		
	ϵ'	ϵ''	σ [S/m]	ϵ'	ϵ''	σ [S/m]	ϵ'	ϵ''	σ [S/m]
2433.000	37.8392	13.1018	1.69	78.5591	10.7699	1.46	37.8636	13.2124	1.69
2450.000	37.8410	13.1514	1.73	78.5327	10.8405	1.48	37.8610	13.2490	1.73
2466.000	37.8249	13.1696	1.74	78.5271	10.9094	1.51	37.8302	13.2520	1.74

5.1.2. 2450 MHz Muscle Tissue

Frequency [GHz]	Meas. after 5min			DI Water at 20°C			Init. Meas.		
	ϵ'	ϵ''	σ [S/m]	ϵ'	ϵ''	σ [S/m]	ϵ'	ϵ''	σ [S/m]
2433.000	50.1739	14.8039	1.86	78.6123	10.9442	1.47	50.0895	14.8292	1.86
2450.000	50.1004	14.8414	1.90	78.6123	10.9442	1.49	50.0895	14.8292	1.90
2466.000	50.0141	14.9252	1.97	78.5928	11.0144	1.51	50.0126	14.9089	1.97

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EXHIBIT 6. SAR SYSTEM CALIBRATION

6.1. GENERAL INFORMATION OF THE PROBE

Probe Type	E-Field Triangle, Isotropic
Model Number	ET20
Serial Number	03JUN-0028
Manufacturer	EMF Safety
Manufactured Date	JUNE 2003
Probe Length [mm]	270
Probe offset [mm]	2.0
Probe Tip diameter [mm]	4.0
Sensor Factor (η_{Pd}) [$mV/(mW/cm^2)$]	10.8
Sensor Factor (η_{E2}) [$mV/(V/m)^2$]	10.8 / 3770

6.2. PROBE LINEARITY AND DYNAMIC RANGE

6.2.1. Diode Compression Potential

DCP ₁	66459
DCP ₂	67796
DCP ₃	69561

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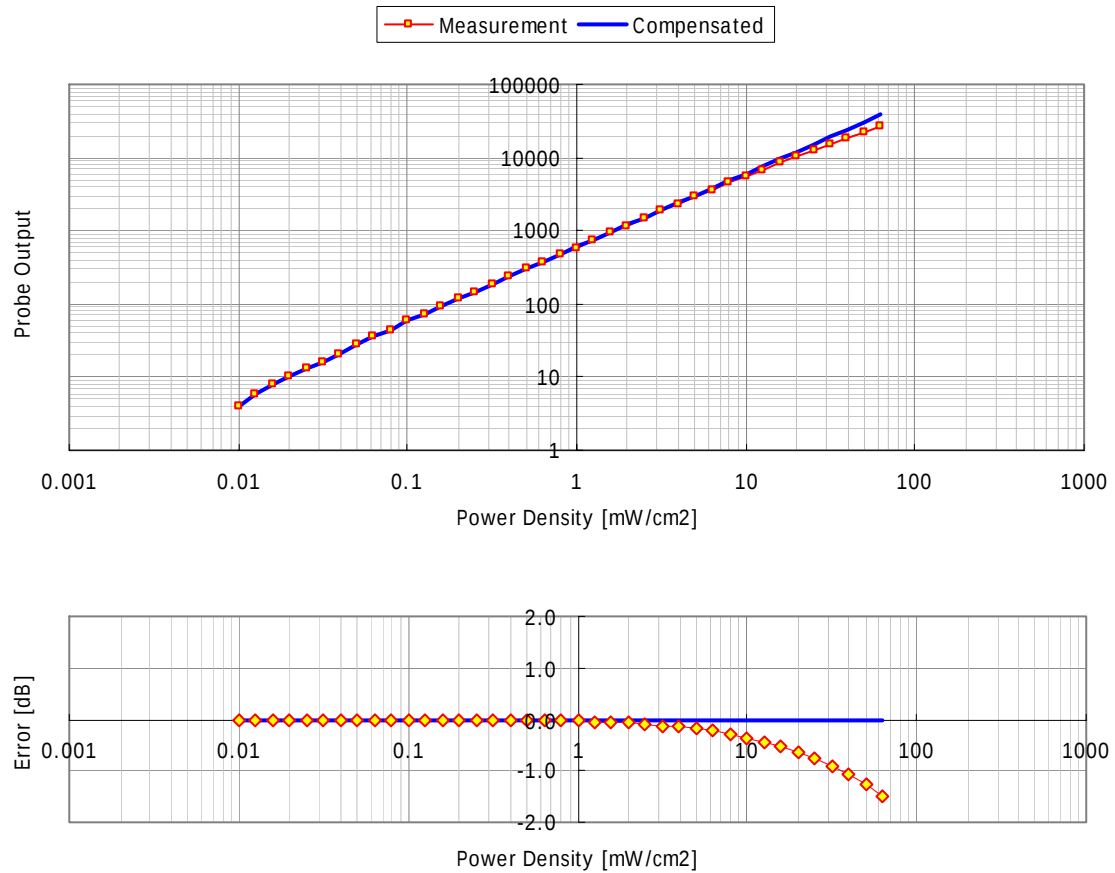
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6.2.2. Channel 1



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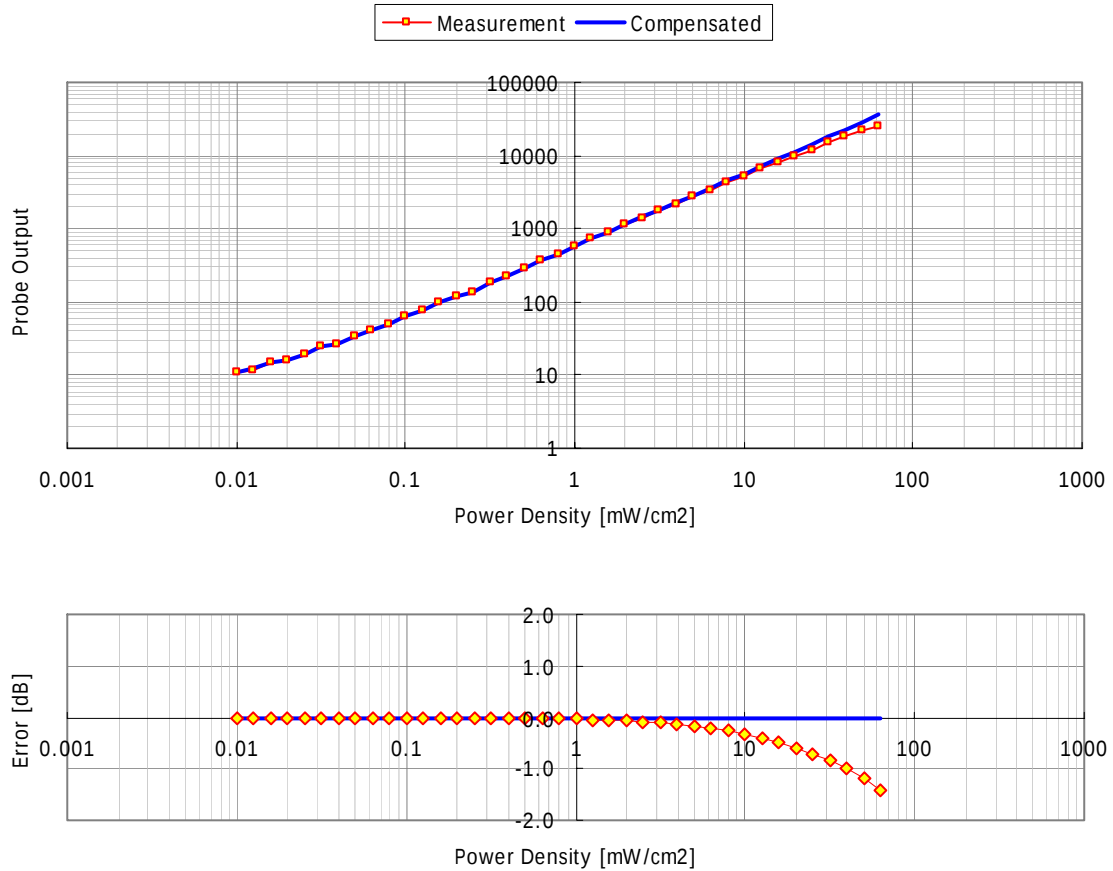
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6.2.3. Channel 2



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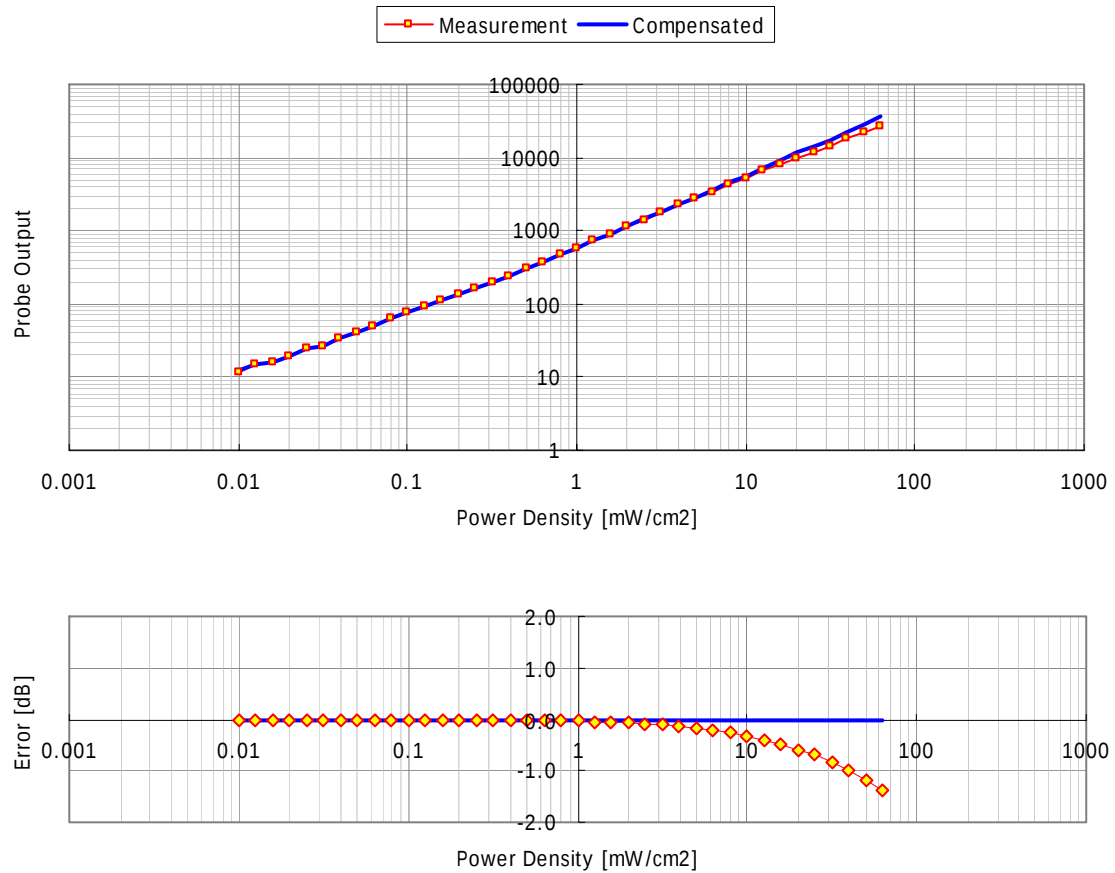
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6.2.4. Channel 3



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6.3. PROBE FREE SPACE CALIBRATION

6.3.1. Calibration Setup at 2450 MHz

Calibration cell type	Waveguide
Model Number	13492
Serial Number	12463-1, 12463-2
Manufacturer	APOLLO
Input Power / Power Density $[\text{mW}/(\text{mW}/\text{cm}^2)]$	24.7

6.3.2. Amplifier Settings

6.3.2.1. Freespace calibration at 2450 MHz

Calibration Date $[\text{MM/DD/YYYY}]$	07/24/2006
Calibrated by	Carolyn Luu
Calibration Frequency $[\text{MHz}]$	2450
Room Temperature $[\text{°C}]$	21
Room Humidity $[\%]$	40
Φ $[\text{°}]$	90
Φ_1, Φ_2, Φ_3 $[\text{°}]$	54.7, 54.7, 54.7
P_d $[\text{mW}/\text{cm}^2]$	2.0
$\text{SUM}(U_{L,1}(0^\circ), \dots, U_{L,1}(360^\circ))$	32,913
$\text{SUM}(U_{L,2}(0^\circ), \dots, U_{L,2}(360^\circ))$	32,956
$\text{SUM}(U_{L,3}(0^\circ), \dots, U_{L,3}(360^\circ))$	34,007
$R_{\text{ISO},1,1}$	1.0000000000
$R_{\text{ISO},2,1}$	0.9987183739
$R_{\text{ISO},3,1}$	0.9678457172
AS_1	0.0051459143
AS_2	0.0051393192
AS_3	0.0049804511

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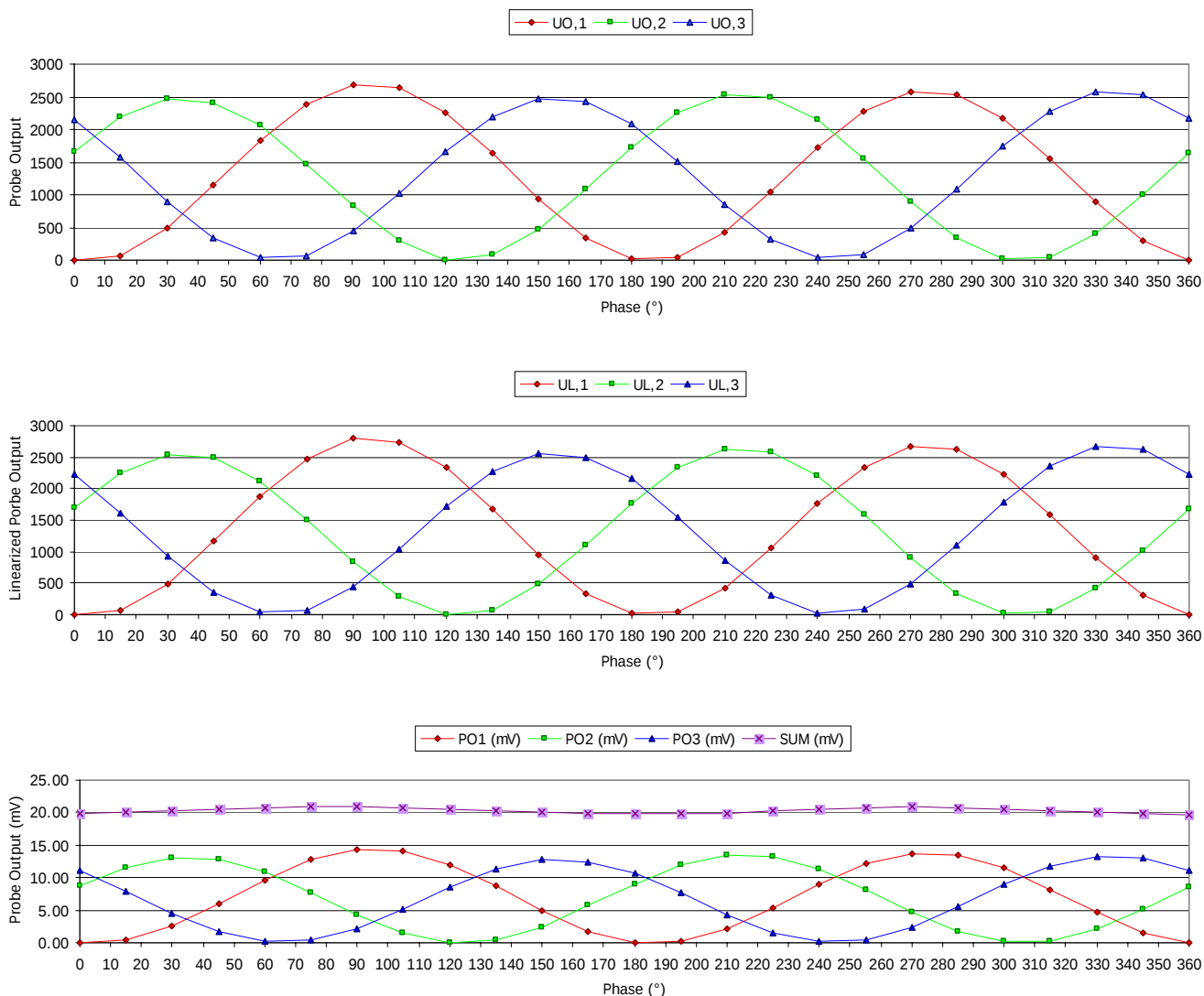
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6.3.3. Isotropic response

Isotropy at 2450 MHz: ± 0.08 dB

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6.4. CALCULABLE WAVEGUIDE CALIBRATION

6.4.1. Calibration Setup

6.4.1.1. Setup for 2400 MHz

Calibration type	Calculable waveguide calibration
Waveguide Manufacturer	APOLLO
Waveguide dimension (a × b) [mm]	109.2 × 54.7
Dielectric Separator thickness [mm]	12.6
Dielectric Separator permittivity	5.0
Return Loss (at test frequency) [dB]	Better than -20



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6.4.2. Simulated Tissue**6.4.2.1. Brain Tissue at 2400 MHz**

Tissue calibration type	HP Dielectric Strength Probe System
Tissue calibration date [MM/DD/YYYY]	07/26/2006
Tissue calibrated by	Carolyn Luu
Room temperature [°C]	21
Room humidity [%]	40
Simulated tissue temperature [°C]	21
Tissue calibration frequency [MHz]	2400
Tissue Type	Brain
Target conductivity [S/m]	1.76
Target dielectric constant	39.3
Measured conductivity [S/m]	1.80 (+2.3 %)
Measured dielectric constant	39.1 (-0.5 %)
Penetration depth (plane wave excitation) [mm]	18.7

6.4.2.2. Muscle Tissue at 2400 MHz

Tissue calibration type	HP Dielectric Strength Probe System
Tissue calibration date [MM/DD/YYYY]	07/26/2006
Tissue calibrated by	JaeWook Choi
Room temperature [°C]	21
Room humidity [%]	40
Simulated tissue temperature [°C]	21
Tissue calibration frequency [MHz]	2400
Tissue Type	Muscle
Target conductivity [S/m]	1.90
Target dielectric constant	52.8
Measured conductivity [S/m]	1.97 (+3.7 %)
Measured dielectric constant	50.4 (-4.5 %)
Penetration depth (plane wave excitation) [mm]	19.3

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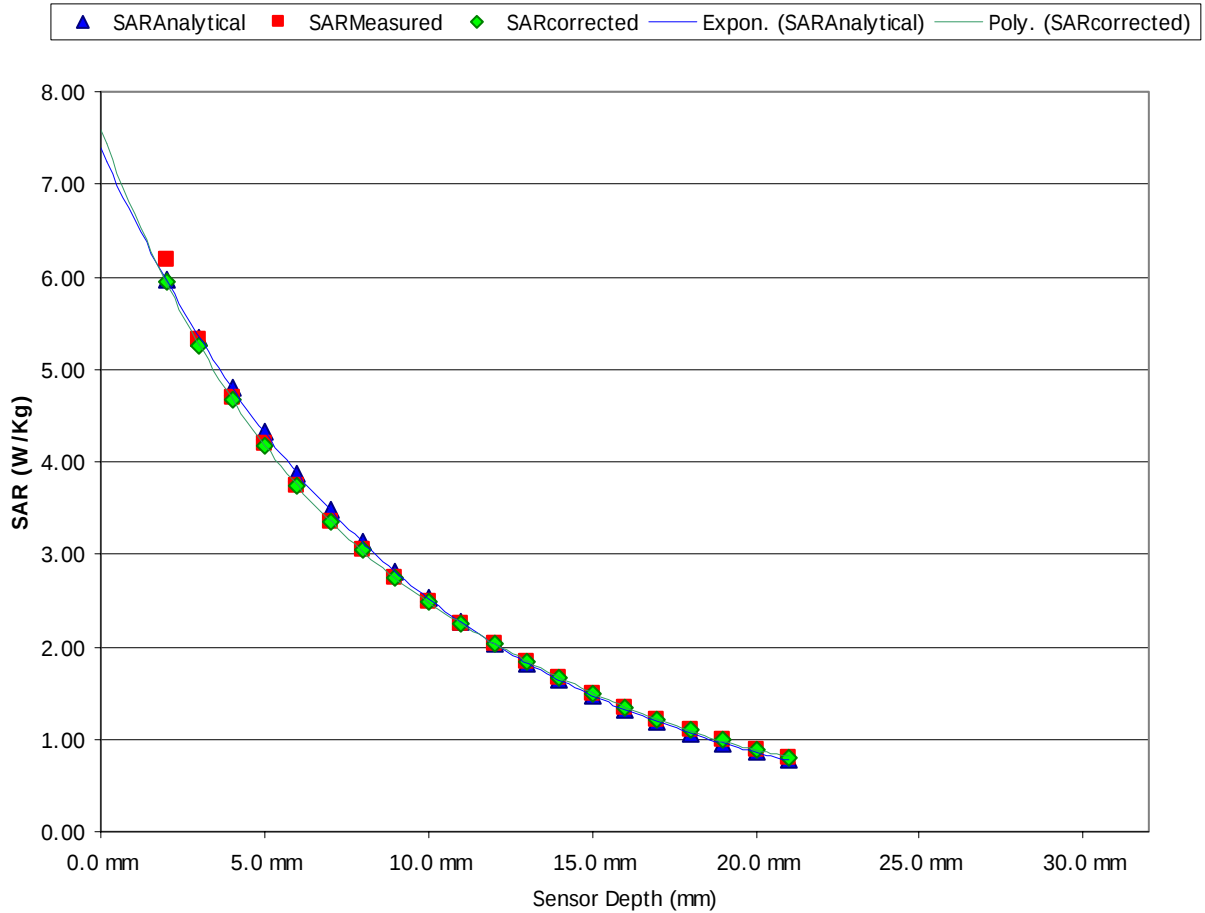
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6.4.3. Conversion Factor**6.4.3.1. Calculable waveguide calibration at 2400 MHz for simulated brain tissue**

Calibration Date [MM/DD/YYYY]	07/26/2006
Calibration by	Carolyn Luu
Calibration Frequency [MHz]	2400
Room Temperature [°C]	21
Room Humidity [%]	40
Simulated Tissue Temperature [°C]	21
Input Power [mW]	204.80
Waveguide dimension (a × b) [mm]	0.1092 × 0.0547
Penetration Depth δ [m]	0.0186
Conversion Factor (γ)	4.566

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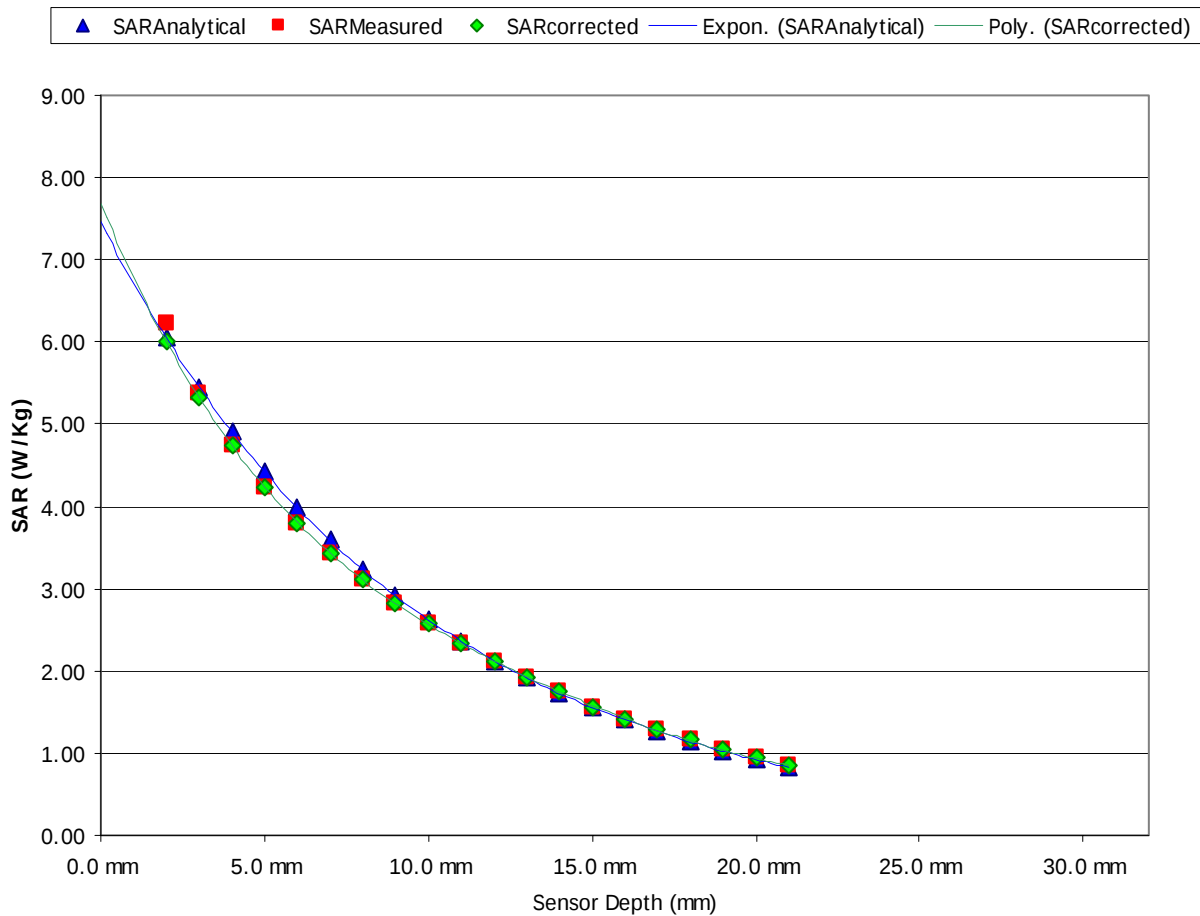
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Calibration Date [MM/DD/YYYY]	07/26/2006
Calibration by	Carolyn Luu
Calibration Frequency [MHz]	2400
Room Temperature [°C]	21
Room Humidity [%]	40
Simulated Tissue Temperature [°C]	21
Input Power [mW]	212.73
Waveguide dimension (a × b) [mm]	0.1092 × 0.0547
Penetration Depth δ [m]	0.0191
Conversion Factor (γ)	3.691

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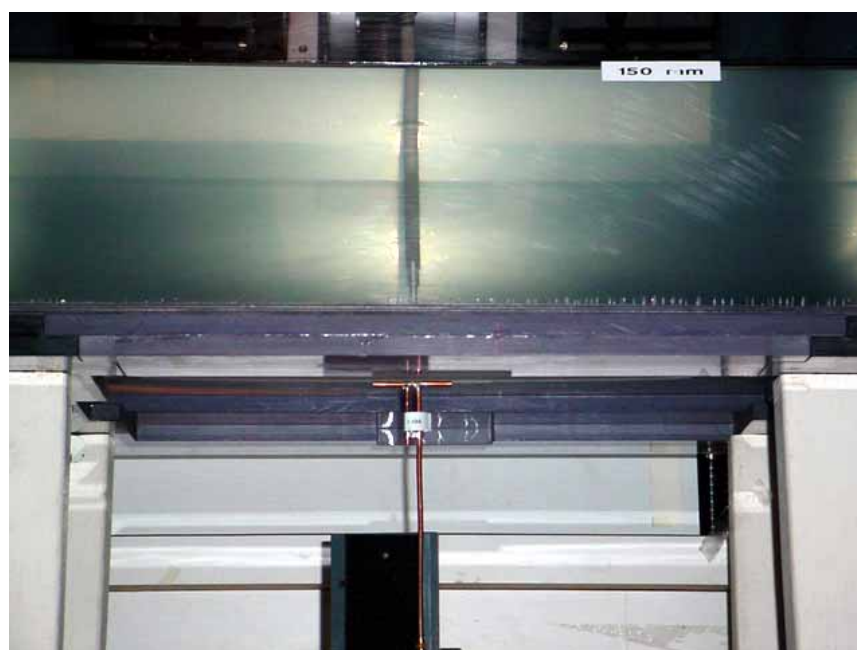
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EXHIBIT 7. SAR SYSTEM VERIFICATION

7.1. VERIFICATION SETUP

7.1.1. Test setup at 2450 MHz using the dipole reference

Flat phantom dimension ($W \times L \times H$) [mm]	420 × 700 × 200
Flat phantom shell thickness (d_3) [mm]	2.0
Flat phantom shell permittivity	2.98
Reference dipole dimension ($L \times h \times d$) [mm]	51.7 × 30.4 × 3.6
Dipole-to-Phantom (d_2) [mm]	8.0
Dipole-to-Liquid ($d_2 + d_3$) [mm]	10.0 (8.0 + 2.0)
Return Loss (at test frequency) [dB]	-20.0



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7.2. SIMULATED TISSUE

7.2.1. Simulated brain tissue at 2450 MHz

Tissue calibration type	HP Dielectric Strength Probe System
Tissue calibration date [MM/DD/YYYY]	07/04/2007
Tissue calibrated by	Carolyn Luu
Room temperature [°C]	21
Room humidity [%]	40
Simulated tissue temperature [°C]	21
Tissue calibration frequency [MHz]	2450
Tissue Type	Brain
Target conductivity [S/m]	1.80
Target dielectric constant	39.2
Measured conductivity [S/m]	1.73 (-4.2 %)
Measured dielectric constant	38.3 (-2.6 %)
Penetration depth (plane wave excitation) [mm]	19.3

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7.3. VERIFICATION RESULT

7.3.1. Reference SAR values for simulated brain tissue at 2450 MHz *

Reference SAR _{Ig} [W/Kg]	52.4
Reference SAR _s [W/Kg]	104.2
Measured SAR _{Ig} [W/Kg]	54.02
Measured SAR _s [W/Kg]	105.64

7.3.2. Verification result at 2450 MHz

Test date [MM/DD/YYYY]	07/04/2007
Test by	Carolyn Luu
Room temperature [°C]	21
Room humidity [%]	40
Simulated tissue temperature [°C]	21
Test frequency [MHz]	2450
E-field Probe	M/N: ET20, S/N: 03JUN-0028, Sensor Offset: 2.0 mm
Sensor Factor (η_{Pd}) [$mV/(mW/cm^2)$]	10.8
Amplifier Settings (AS ₁ , AS ₂ , AS ₃)	0.0051459143, 0.0051393192, 0.0049804511
Tissue Type	Brain
Measured conductivity [S/m]	1.73 (-4.2 %)
Measured dielectric constant	37.8 (-3.5 %)
Conversion Factor (γ)	4.566
Sensitivity (ζ) [W/Kg/mV]	1.315E-01
Power [mW]	500
Measurement Volume Specification (X × Y × Z)	7 _{pts} × 7 _{pts} × 7 _{pts} , 30 _{mm} × 30 _{mm} × 30 _{mm} ; Resolution: 5 _{mm} × 5 _{mm} × 5 _{mm}
SAR _{Ig} [W/Kg]	27.01
SAR _s [W/Kg]	52.82

* All SAR values in 7.3.1 are normalized to a forward power of 1 W.

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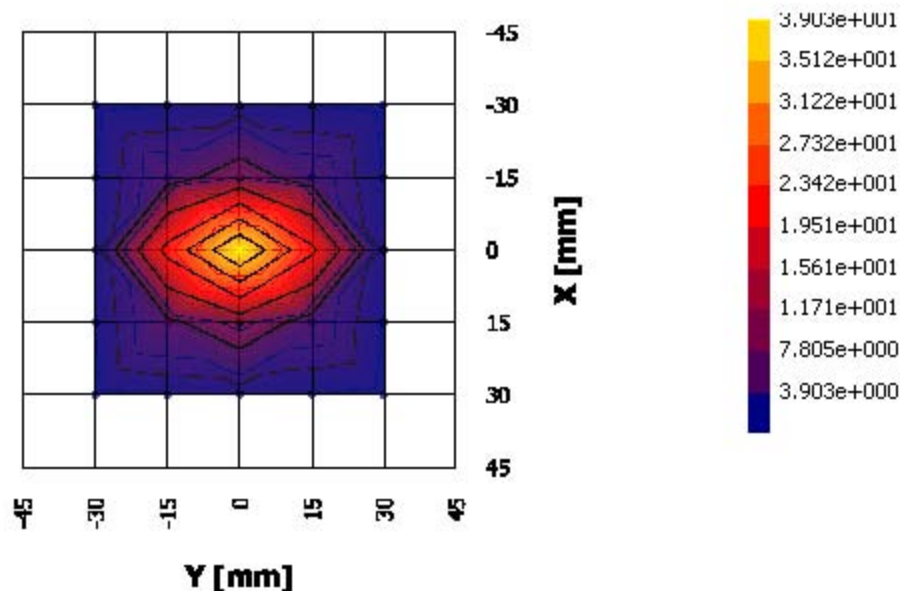
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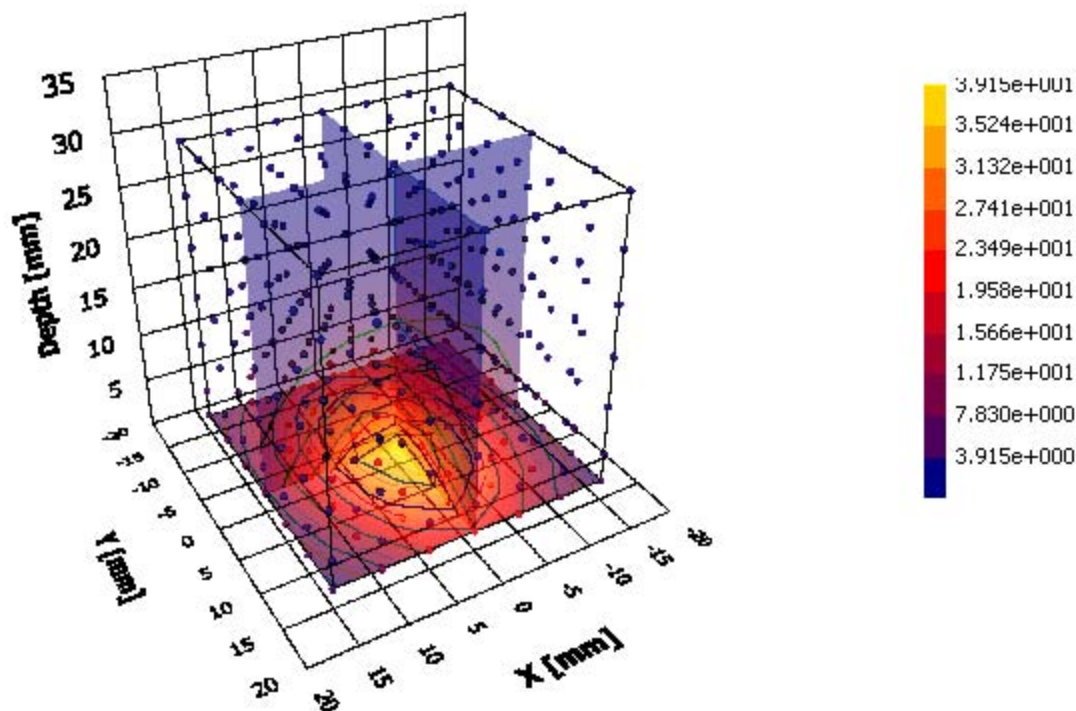
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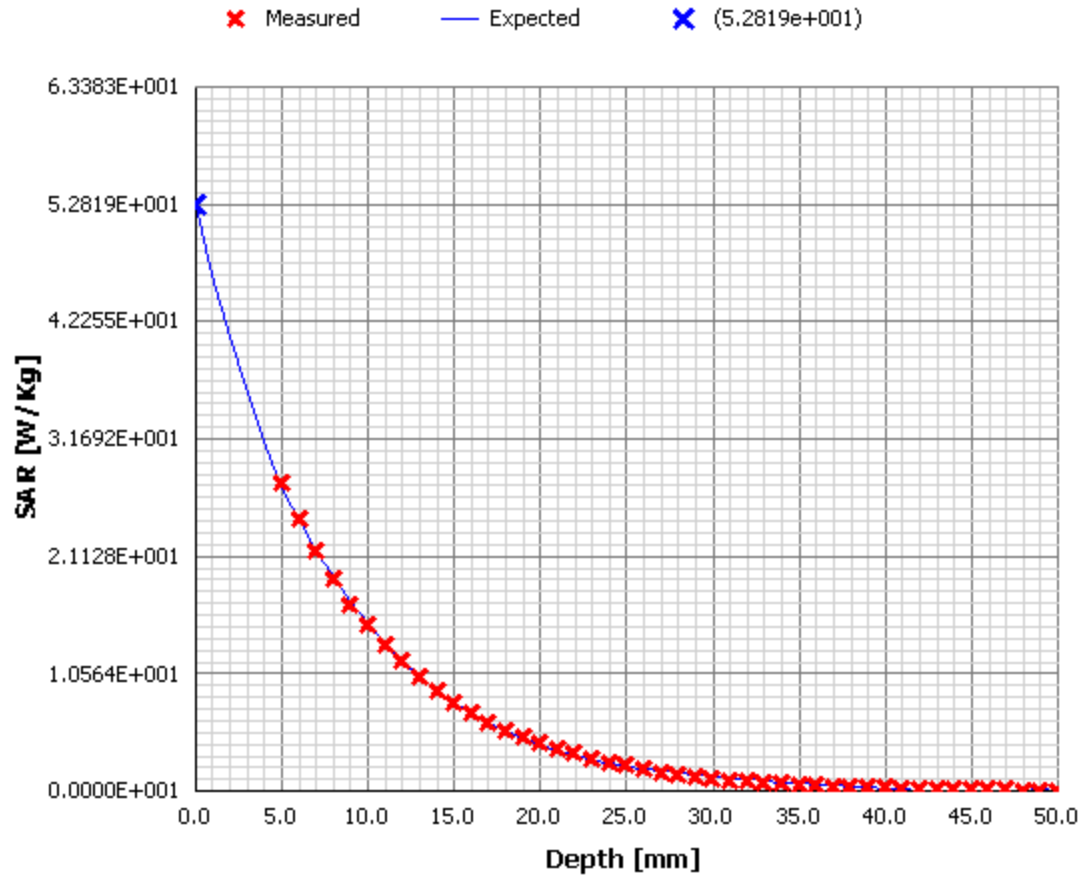
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