

This amendment provides the results of SAR measurements for bystander positions. All of the bystander position tests were performed with a separation distance of 0.5 cm from the edge of the phantom to the edge of the laptop PC nearest to the transmit antenna.

Prior to formal testing at each frequency, a system verification was performed in accordance with IEEE 1528. The balanced dipole source was placed at the specified distance in horizontal orientation with 0.1W CW feed at 2450 MHz. All of the testing described in this amendment was performed within 24 hours of the system verification. The following results were obtained:

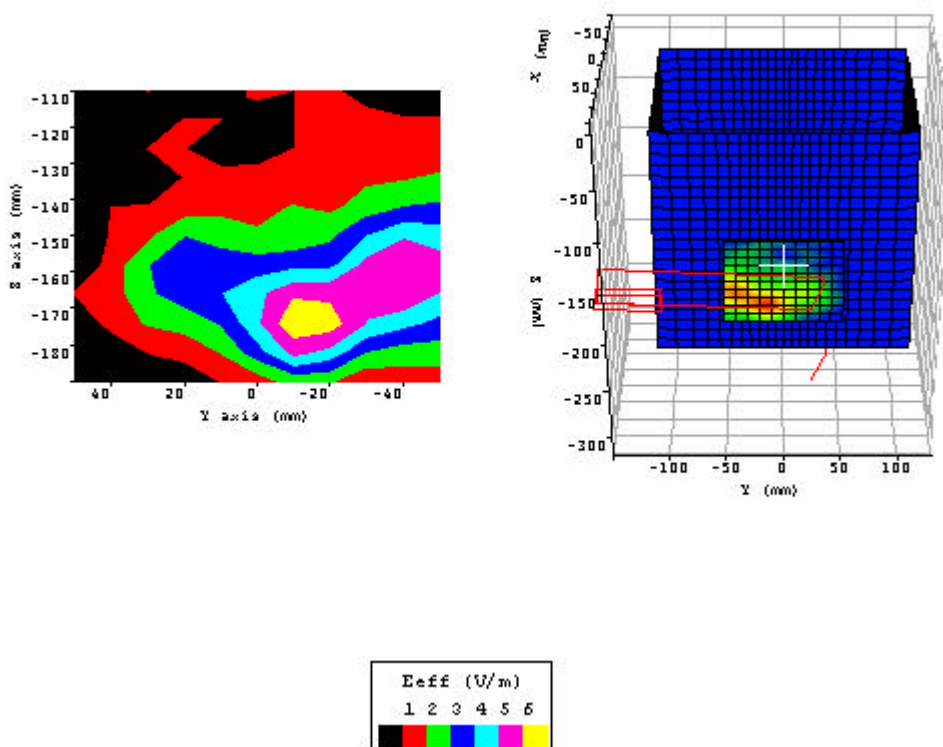
DATE	CHECK CONFIGURATION	FREQUENCY (MHz)	Max. 1g Volume averaged SAR (W/kg)	Percentage drift on reference (%)
02/28/2003	2450MHz dipole	2450	5.156	-1.6

2450 MHz Head Liquid:

02/28/2003		
Freq.	Rel.	Condy
(MHz)	Perm.	(S/m)
2450	38.51	1.737

2450 MHz BodyLiquid:

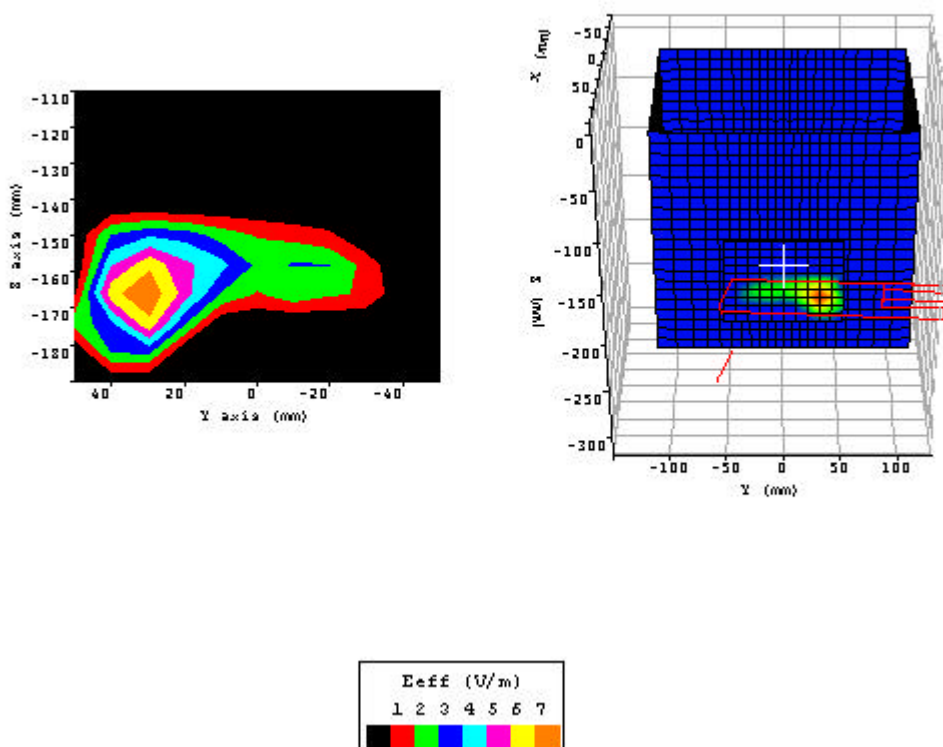
02/28/2003		
Freq.	Rel.	Condy
(MHz)	Perm.	(S/m)
2437	51.68	1.961



Plot 1.	
Date:	02/28/2003
Temperature Air / Liquid:	21.0°C / 21.0°C
Liquid mass density (ρ):	1
DCP ¹	20
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386
Probe S/N:0123 liquid/air conversion Factor	0.816
Simulated tissue dielectric parameters:	ε _r : 51.68 σ: 1.961
Transmit Antenna / Test Position	Hitachi Right / Bystander
Device Frequency / BT Frequency	2437 MHz / 2402 MHz
Maximum 1 gram SAR:	0.123W/Kg
Maximum 10 gram SAR:	0.057W/Kg
Power reference start:	0.023W/Kg
Power reference end	0.023W/Kg
Power reference change ²	-0.00%

¹ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

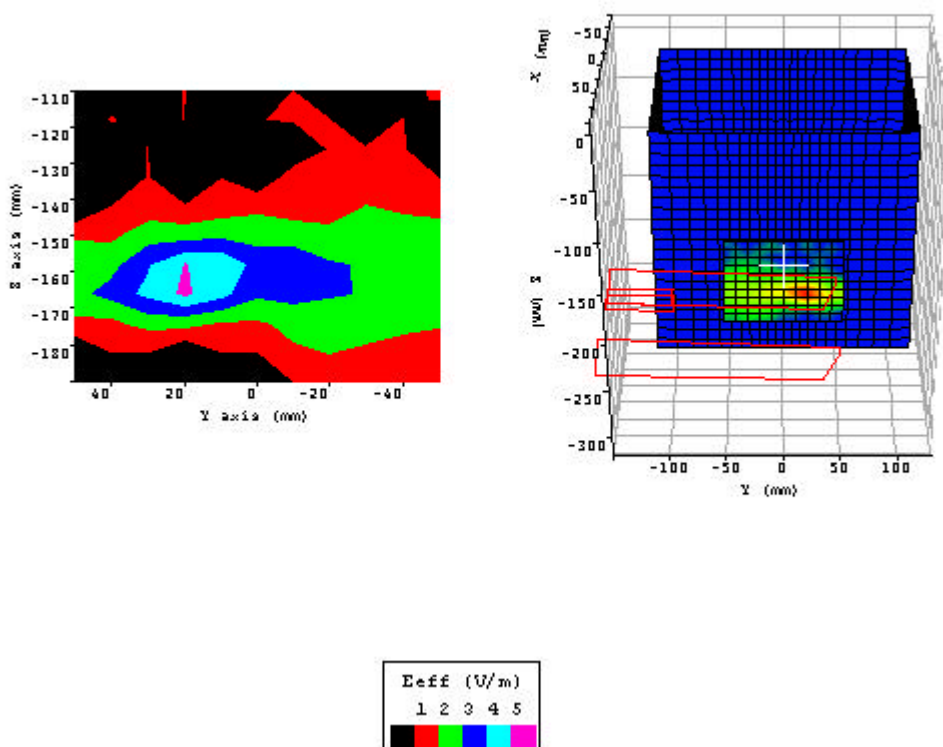
² The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.



Plot 2.	
Date:	02/28/2003
Temperature Air / Liquid:	21.0°C / 21.0°C
Liquid mass density (ρ):	1
DCP ³	20
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386
Probe S/N:0123 liquid/air conversion Factor	0.816
Simulated tissue dielectric parameters:	ϵ_r : 51.68 σ : 1.961
Transmit Antenna / Test Position	Hitachi Left / Bystander
Device Frequency / BT Frequency	2437 MHz / 2402 MHz
Maximum 1 gram SAR:	0.350W/Kg
Maximum 10 gram SAR:	0.128W/Kg
Power reference start:	0.031W/Kg
Power reference end	0.031W/Kg
Power reference change ⁴	-0.00%

³ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

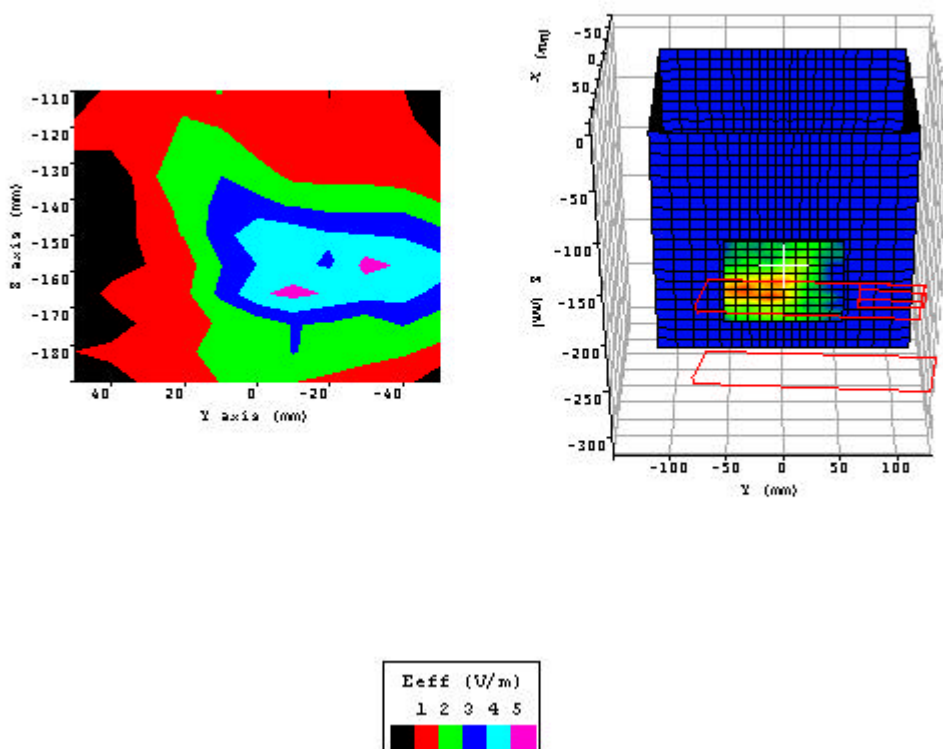
⁴ The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.



Plot 3.	
Date:	02/28/2003
Temperature Air / Liquid:	21.0°C / 21.0°C
Liquid mass density (ρ):	1
DCP ⁵	20
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386
Probe S/N:0123 liquid/air conversion Factor	0.816
Simulated tissue dielectric parameters:	ϵ_r : 51.68 σ : 1.961
Transmit Antenna / Test Position	Neweb Right / Bystander
Device Frequency / BT Frequency	2437 MHz / 2402 MHz
Maximum 1 gram SAR:	0.073W/Kg
Maximum 10 gram SAR:	0.029W/Kg
Power reference start:	0.015W/Kg
Power reference end	0.015W/Kg
Power reference change ⁶	-0.00%

⁵ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

⁶ The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

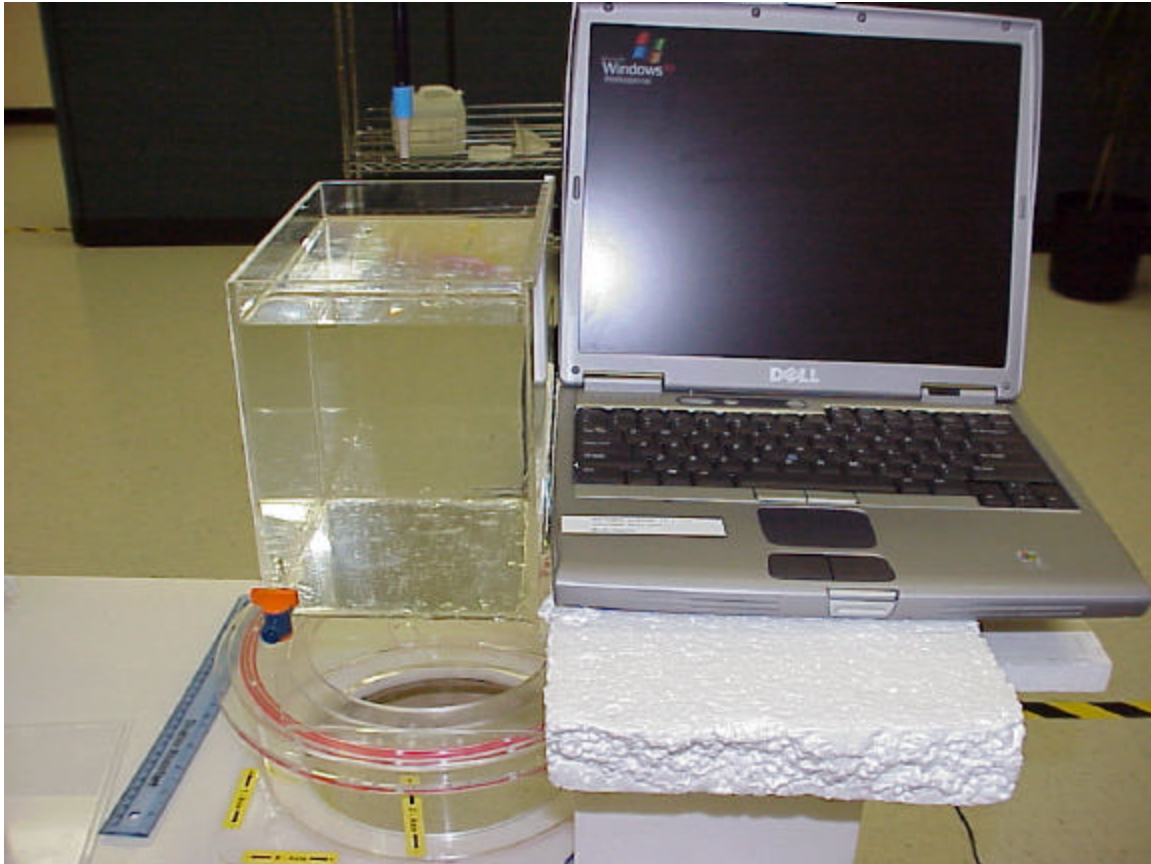


Plot 4.	
Date:	02/28/2003
Temperature Air / Liquid:	21.0°C / 21.0°C
Liquid mass density (ρ):	1
DCP ⁷	20
Probe S/N:0123 Air Factor	X=346, Y=318, Z=386
Probe S/N:0123 liquid/air conversion Factor	0.816
Simulated tissue dielectric parameters:	ϵ_r : 51.68 σ : 1.961
Transmit Antenna / Test Position	Neweb Left / Bystander
Device Frequency / BT Frequency	2437 MHz / 2402 MHz
Maximum 1 gram SAR:	0.086W/Kg
Maximum 10 gram SAR:	0.043W/Kg
Power reference start:	0.015W/Kg
Power reference end	0.015W/Kg
Power reference change ⁸	-0.00%

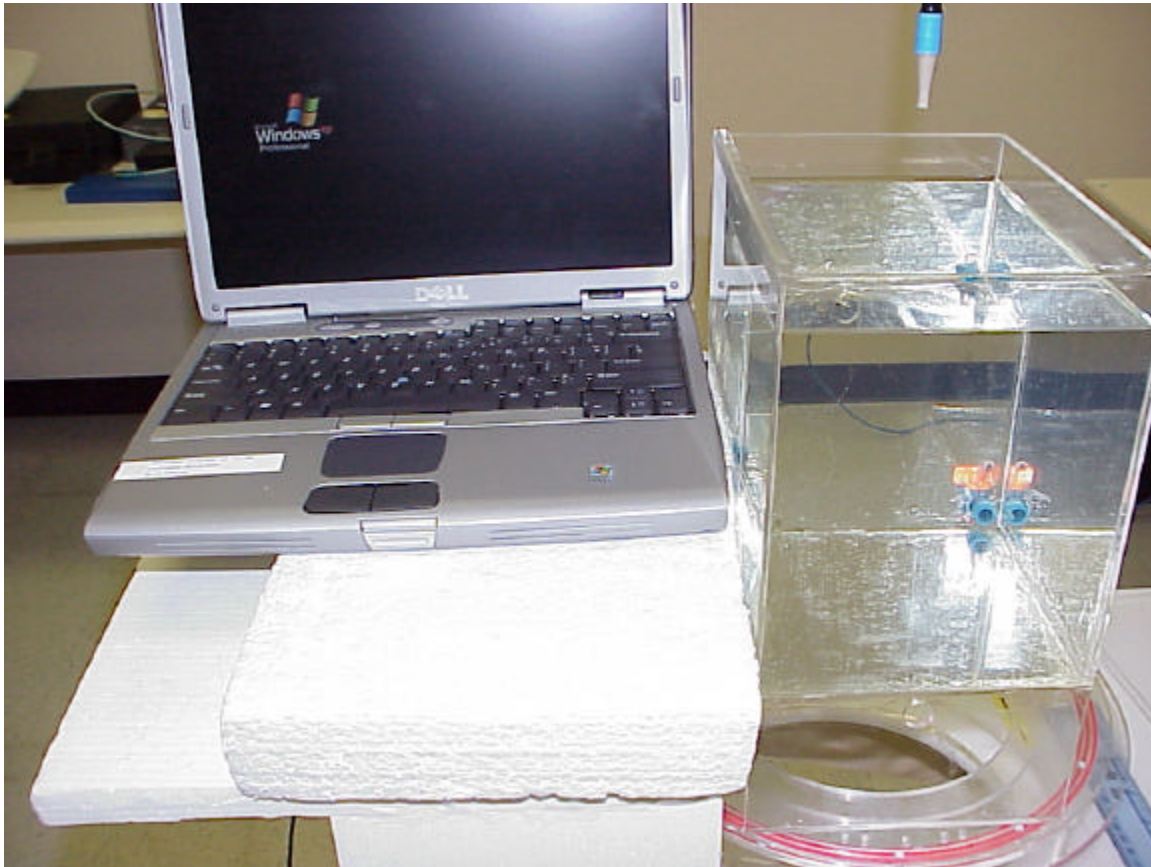
⁷ DCP: Diode compression potential for different types of modulation is determined during the calibration of the probe. See section 6.2 of this report *Probe and Amplifier Specification*. Crest factor is not used.

⁸ The power reference change is calculated by the test system with more digits than indicated in the power reference start and end values.

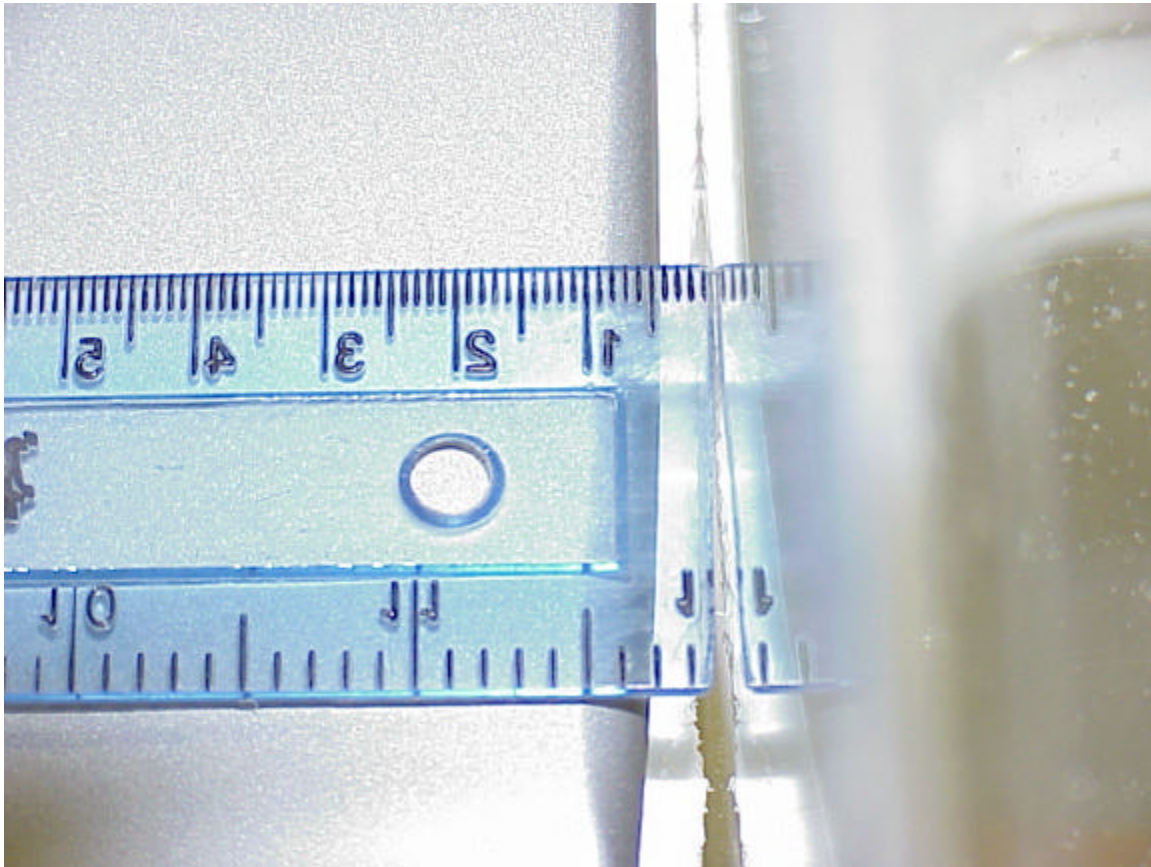
Setup Photos:



Left bystander position



Right bystander position



Distance