6.1 SYSTEM SPECIFICATIONS

6.2 Robotic System Specifications

Specifications

POSITIONER:	IDX Robot with 6 axis
Repeatability:	0.002 in.
Accuracy:	0.004 in.

Data Acquisition

Processor:	Pentium PRO CPU
Clock Speed:	200 MHz
Operating System:	Windows NT
Data Card:	National Instruments Analog Card
Software:	IDX Flexware
AMPLIFIER GAIN:	Adjustable 20 - 40, high isolation between channels
Connecting Lines:	High Impedance 4.5 kohm/foot
Sample Rate:	6000

E-Field Probe	**E-Probe #1**	**E-Probe #2**
Probe Offset:	2.5 mm	2.5 mm
Frequency Band:	150 - 2200 MHz	150 - 2200 MHz
Conversion Factor:	0.601 (800-880MHz)	0.79 (800-880MHz)
Conversion Factor:	1.20 (1850-1910MHz)	1.20 (1850-1910MHz)
Dynamic Response:	2 μW/g - 10 mW/g	2 μW/g - 10 mW/g
Input:	2.2 meg	2.2 meg
Isotropicity:	± 0.5 dB	± 0.5 dB
Resolution:	0.1 cm^3	0.1 cm^3

Phantom	**Phantom #1 (Left)**	**Phantom #2 (Right)**
Phantoms:	Homogenous	Homogenous
Shell Material:	Fiberglass	Fiberglass
Thickness:	1 - 1.5 mm	1 - 1.5 mm
Head:	with Left ear	with Right ear

Brain Tissue Equivalent	**800-850 MHz**	**1850-1910 MHz**
Dielectric Constant: ε	43.4	42.9
Conductivity: σ	0.90	1.65

11.1 TEST DATA SUMMARY

Ambient TEMPERATURE (°C) 24.0
Relative HUMIDITY (%) 56.0
Atmospheric PRESSURE (kPa) 96.8

Mixture Type: Brain

Dielectric Constant: 42.9

Conductivity: 1.65 S/m

Closest Distance (between E-Probe & Phone Antenna): 2.3 cm

Measurement Results

FREQUENCY		Modulation	POWER (W)	EAR Position	Antenna Position	SAR (W/kg)
MHz	Ch.					
1851.25	25	CDMA	0.3	Left	IN	0.7134
1851.25	25	CDMA	0.3	Left	OUT	0.4367
1880.00	600	CDMA	0.3	Left	IN	0.7496
1880.00	600	CDMA	0.3	Left	OUT	0.4802
1908.75	1175	CDMA	0.3	Left	IN	0.5887
1908.75	1175	CDMA	0.3	Left	OUT	0.5986
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak (Brain) Uncontrolled Exposure/General Population			**1.6 W/kg (mW/g)**			

NOTES:
1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. All modes of operation were investigated and the worst-case are reported.
2. Battery condition is fully charged for all readings.
3. Power measured: ☐ Conducted ☒ EIRP ☐ ERP

PCTEST SEAL

DATE: 08-07-98