

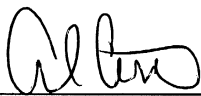
SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain

14.7 MEASUREMENT RESULTS (CDMA Left Head SAR – Touch)								
FREQUENCY		Modulation	Begin / End POWER*			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
835.89	0363	CDMA	25.10	25.02	Standard	Cheek / Touch	Internal	0.511
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 - All modes of operation were investigated, and worst-case results are reported.
 - Battery is fully charged for all readings. Standard & Extended batteries are the only options.
- *Power Measured ☒ Conducted ☐ ERP ☐ EIRP
4. SAR Measurement System ☒ DASY4 ☐ IDX
- Phantom Configuration ☐ Left Head ☐ Flat Phantom ☒ Right Head
5. SAR Configuration ☒ Head ☐ Body ☐ Hand
6. Test Signal Call Mode ☐ Manu. Test Codes ☒ Base Station Simulator
7. Tissue parameters and temperatures are listed on the SAR plots.
8. Liquid tissue depth is 15.1 cm. ± 0.1



Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT	SAR MEASUREMENT REPORT			Reviewed by: Quality Manager
SAR Filename: 0509300677	Test Dates: October 18-19, 2005	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA120	Page 24 of 35

SAR DATA SUMMARY (Continued)

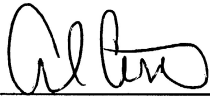
Mixture Type: 835MHz Brain

14.8 MEASUREMENT RESULTS (CDMA Left Head SAR - Tilt)

FREQUENCY		Modulation	Begin / End POWER [*]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
835.89	0363	CDMA	25.12	25.05	Standard	Ear / 15° Tilt	Internal	0.085
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 - All modes of operation were investigated, and worst-case results are reported.
 - Battery is fully charged for all readings. Standard & Extended batteries are the only options.
- *Power Measured ☒ Conducted ☐ ERP ☐ EIRP
4. SAR Measurement System ☒ DASY4 ☐ IDX
- Phantom Configuration ☒ Left Head ☐ Flat Phantom ☐ Right Head
5. SAR Configuration ☒ Head ☐ Body ☐ Hand
6. Test Signal Call Mode ☐ Manu. Test Codes ☒ Base Station Simulator
- Tissue parameters and temperatures are listed on the SAR plots.
 - Liquid tissue depth is 15.1 cm. ± 0.1
 - Justification for reduced test configurations: Per FCC/OET Bulletin 65 Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (left, right, cheek/touch, tilt/ear, extended and retracted) 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).



Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT	SAR MEASUREMENT REPORT			Reviewed by: Quality Manager
SAR Filename: 0509300677	Test Dates: October 18-19, 2005	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA120	Page 25 of 35

SAR DATA SUMMARY (Continued)

Mixture Type: 1900MHz Brain

14.9 MEASUREMENT RESULTS (PCS CDMA Right Head SAR – Touch)

FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1851.25	0025	PCS CDMA	25.13	24.94	Standard	Cheek / Touch	Internal	1.060
1880.00	0600	PCS CDMA	25.12	24.97	Standard	Cheek / Touch	Internal	0.987
1908.75	1175	PCS CDMA	25.14	25.01	Standard	Cheek / Touch	Internal	0.712
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Brain 1.6 W/kg (mW/g) averaged over 1 gram		
Spatial Peak								
Uncontrolled Exposure/General Population								

NOTES:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].

2. All modes of operation were investigated, and worst-case results are reported.

3. Battery is fully charged for all readings. Standard & Extended batteries are the only options.

[‡]Power Measured

☒ Conducted

☐ ERP

☐ EIRP

4. SAR Measurement System

☒ DASY4

☐ IDX

Phantom Configuration

☐ Left Head

☐ Flat Phantom

☒ Right Head

5. SAR Configuration

☒ Head

☐ Body

☐ Hand

6. Test Signal Call Mode

☐ Manu. Test Codes

☒ Base Station Simulator

7. Tissue parameters and temperatures are listed on the SAR plots.

8. Liquid tissue depth is 15.1 cm. ± 0.1



Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT	SAR MEASUREMENT REPORT			Reviewed by: Quality Manager
SAR Filename: 0509300677	Test Dates: October 18-19, 2005	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA120	Page 26 of 35

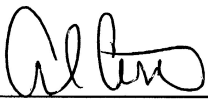
SAR DATA SUMMARY (Continued)

Mixture Type: 1900MHz Brain

14.10 MEASUREMENT RESULTS (PCS CDMA Right Head SAR – Tilt)								
FREQUENCY		Modulation	Begin / End POWER [†]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1880.00	0600	PCS CDMA	25.16	25.03	Standard	Ear / 15° Tilt	Internal	0.164
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Brain		
Spatial Peak						1.6 W/kg (mW/g)		
Uncontrolled Exposure/General Population						averaged over 1 gram		

NOTES:

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 - All modes of operation were investigated, and worst-case results are reported.
 - Battery is fully charged for all readings. Standard & Extended batteries are the only options.
- *Power Measured ☒ Conducted ☐ ERP ☐ EIRP
- SAR Measurement System ☒ DASY4 ☐ IDX
- Phantom Configuration ☐ Left Head ☐ Flat Phantom ☒ Right Head
- SAR Configuration ☒ Head ☐ Body ☐ Hand
- Test Signal Call Mode ☐ Manu. Test Codes ☒ Base Station Simulator
- Tissue parameters and temperatures are listed on the SAR plots.
 - Liquid tissue depth is 15.1 cm. ± 0.1
 - Justification for reduced test configurations: Per FCC/OET Bulletin 65 Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (left, right, cheek/touch, tilt/ear, extended and retracted) 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).


Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT	SAR MEASUREMENT REPORT			Reviewed by: Quality Manager
SAR Filename: 0509300677	Test Dates: October 18-19, 2005	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA120	Page 27 of 35

SAR DATA SUMMARY (Continued)

 Mixture Type: 1900MHz Brain

14.11 MEASUREMENT RESULTS (PCS CDMA Left Head SAR – Touch)								
FREQUENCY		Modulation	Begin / End POWER*			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1851.25	0025	PCS CDMA	25.15	24.97	Standard	Cheek / Touch	Internal	0.928
1880.00	0600	PCS CDMA	25.16	25.08	Standard	Cheek / Touch	Internal	0.857
1908.75	1175	PCS CDMA	25.13	25.05	Standard	Cheek / Touch	Internal	0.642
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 - All modes of operation were investigated, and worst-case results are reported.
 - Battery is fully charged for all readings. Standard & Extended batteries are the only options.
- | | | | |
|---------------------------|---|--|-------------------------------------|
| *Power Measured | ☒ Conducted | ☐ ERP | ☐ EIRP |
| 4. SAR Measurement System | ☒ DASY4 | ☐ IDX | |
| Phantom Configuration | ☒ Left Head | ☐ Flat Phantom | ☐ Right Head |
| 5. SAR Configuration | ☒ Head | ☐ Body | ☐ Hand |
| 6. Test Signal Call Mode | ☐ Manu. Test Codes | ☒ Base Station Simulator | |
- Tissue parameters and temperatures are listed on the SAR plots.
 - Liquid tissue depth is 15.1 cm. ± 0.1


Alfred Cirvithian
Vice President Engineering

PCTEST™ SAR REPORT	SAR MEASUREMENT REPORT			Reviewed by: Quality Manager
SAR Filename: 0509300677	Test Dates: October 18-19, 2005	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA120	Page 28 of 35

SAR DATA SUMMARY (Continued)

 Mixture Type: 1900MHz Brain

14.12 MEASUREMENT RESULTS (PCS CDMA Left Head SAR – Tilt)								
FREQUENCY		Modulation	Begin / End POWER [†]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1880.00	0600	PCS CDMA	25.14	25.03	Standard	Ear / 15° Tilt	Internal	0.154
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 - All modes of operation were investigated, and worst-case results are reported.
 - Battery is fully charged for all readings. Standard & Extended batteries are the only options.
- *Power Measured ☒ Conducted ☐ ERP ☐ EIRP
4. SAR Measurement System ☒ DASY4 ☐ IDX
- Phantom Configuration ☒ Left Head ☐ Flat Phantom ☐ Right Head
5. SAR Configuration ☒ Head ☐ Body ☐ Hand
6. Test Signal Call Mode ☐ Manu. Test Codes ☒ Base Station Simulator
- Tissue parameters and temperatures are listed on the SAR plots.
 - Liquid tissue depth is 15.1 cm. ± 0.1
 - Justification for reduced test configurations: Per FCC/OET Bulletin 65 Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (left, right, cheek/touch, tilt/ear, extended and retracted) 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).


Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT	SAR MEASUREMENT REPORT			Reviewed by: Quality Manager
SAR Filename: 0509300677	Test Dates: October 18-19, 2005	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA120	Page 29 of 35

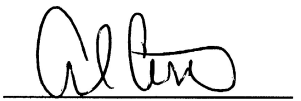
SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Muscle

14.13 MEASUREMENT RESULTS (AMPS Body SAR w/o Holster)								
FREQUENCY		Modulation	Begin / End POWER [‡]			Separation Distance (cm) **	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
836.49	0383	AMPS	26.15	25.02	Standard	1.5 [w/o Holster]	Internal	0.571
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Muscle 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 - All modes of operation were investigated, and worst-case results are reported.
 - Battery is fully charged for all readings. Standard & Extended batteries are the only options.
- *Power Measured ☒ Conducted ☐ ERP ☐ EIRP
4. SAR Measurement System ☒ DASY4 ☐ IDX
- Phantom Configuration ☐ Left Head ☒ Flat Phantom ☐ Right Head
5. SAR Configuration ☐ Head ☒ Body ☐ Hand
6. Test Signal Call Mode ☐ Manu. Test Codes ☒ Base Station Simulator
7. **Test Configuration ☐ With Holster ☒ Without Holster
8. Tissue parameters and temperatures are listed on the SAR plots.
9. Both sides of the phone were tested and the worst-case side is reported.
10. Liquid tissue depth is 15.1 cm. ± 0.1



Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT	SAR MEASUREMENT REPORT			Reviewed by: Quality Manager
SAR Filename: 0509300677	Test Dates: October 18-19, 2005	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA120	Page 30 of 35

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Muscle

14.14 MEASUREMENT RESULTS (CDMA Body SAR w/o Holster)								
FREQUENCY		Modulation	Begin / End POWER*			Separation Distance (cm) **	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
835.49	0363	CDMA	25.12	24.98	Standard	1.5 [w/o Holster]	Internal	0.516
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Muscle 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
- All modes of operation were investigated, and worst-case results are reported.
- Battery is fully charged for all readings. Standard & Extended batteries are the only options.
- *Power Measured

☒ Conducted	☐ ERP	☐ EIRP
---	------------------------------	-------------------------------
- SAR Measurement System

☒ DASY4	☐ IDX
---	------------------------------
- Phantom Configuration

☐ Left Head	☒ Flat Phantom	☐ Right Head
------------------------------------	--	-------------------------------------
- SAR Configuration

☐ Head	☒ Body	☐ Hand
-------------------------------	--	-------------------------------
- Test Signal Call Mode

☐ Manu. Test Codes	☒ Base Station Simulator
---	--
- **Test Configuration

☐ With Holster	☒ Without Holster
---------------------------------------	---
- Tissue parameters and temperatures are listed on the SAR plots.
- Both sides of the phone were tested and the worst-case side is reported.
- Liquid tissue depth is 15.1 cm. ± 0.1


Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT	SAR MEASUREMENT REPORT			Reviewed by: Quality Manager
SAR Filename: 0509300677	Test Dates: October 18-19, 2005	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA120	Page 31 of 35

SAR DATA SUMMARY (Continued)

Mixture Type: 1900MHz Muscle

14.15 MEASUREMENT RESULTS (PCS CDMA Body SAR w/o Holster)								
FREQUENCY		Modulation	Begin / End POWER*			Separation Distance (cm)**	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1880.00	0600	PCS CDMA	25.10	25.03	Standard	1.5 [w/o Holster]	Internal	0.651
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Muscle 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
- All modes of operation were investigated, and worst-case results are reported.
- Battery is fully charged for all readings. Standard & Extended batteries are the only options.
- *Power Measured

☒ Conducted	☐ ERP	☐ EIRP
---	------------------------------	-------------------------------
- SAR Measurement System

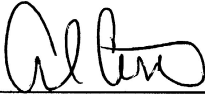
☒ DASY4	☐ IDX
---	------------------------------
- Phantom Configuration

☐ Left Head	☒ Flat Phantom	☐ Right Head
------------------------------------	--	-------------------------------------
- SAR Configuration

☐ Head	☒ Body	☐ Hand
-------------------------------	--	-------------------------------
- Test Signal Call Mode

☐ Manu. Test Codes	☒ Base Station Simulator
---	--
- **Test Configuration

☐ With Holster	☒ Without Holster
---------------------------------------	---
- Tissue parameters and temperatures are listed on the SAR plots.
- Both sides of the phone were tested and the worst-case side is reported.
- Liquid tissue depth is 15.1 cm. ± 0.1


Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT	SAR MEASUREMENT REPORT			Reviewed by: Quality Manager
SAR Filename: 0509300677	Test Dates: October 18-19, 2005	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA120	Page 32 of 35

15. SAR TEST EQUIPMENT

Equipment Calibration

Table 15.1 Test Equipment Calibration

EQUIPMENT SPECIFICATIONS			
Type		Calibration Date	Serial Number
Stäubli Robot RX60L		October 2005	599131-01
Stäubli Robot Controller		October 2005	PCT592
Stäubli Teach Pendant (Joystick)		October 2005	3323-00161
Micron Computer, 450 MHz Pentium III, Windows NT		October 2005	PCT577
SPEAG EDC3		October 2005	321
SPEAG DAE4		October 2005	637
SPEAG E-Field Probe EX3DV4		October 2005	3550
SPEAG Dummy Probe		October 2005	PCT583
SPEAG SAM Twin Phantom V4.0		October 2005	PCT666
SPEAG Light Alignment Sensor		October 2005	205
PCTEST Validation Dipole D300V2		September 2005	PCT301
SPEAG Validation Dipole D835V2		January 2005	PCT512
SPEAG Validation Dipole D1900V2		January 2005	PCT613
Brain Equivalent Matter (300MHz)		October 2005	PCTBEM601
Brain Equivalent Matter (835MHz)		October 2005	PCTBEM101
Brain Equivalent Matter (1900MHz)		October 2005	PCTBEM301
Muscle Equivalent Matter (300MHz)		October 2005	PCTMEM701
Muscle Equivalent Matter (835MHz)		October 2005	PCTMEM201
Muscle Equivalent Matter (1900MHz)		October 2005	PCTMEM401
Microwave Amp. Model: 5S1G4, (800MHz - 4.2GHz)		January 2005	22332
Gigatronics 8651A Power Meter		January 2005	1835299
HP-8648D (9kHz ~ 4GHz) Signal Generator		January 2005	PCT530
Amplifier Research 5S1G4 Power Amp		January 2005	PCT540
HP-8753E (30kHz ~ 3GHz) Network Analyzer		January 2005	PCT552
HP85070B Dielectric Probe Kit		January 2005	PCT501
Ambient Noise/Reflection, etc.	<12mW/kg/<3%of SAR	January 2005	Anechoic Room PCT01

NOTE:

The E-field probe was calibrated by SPEAG, by waveguide technique procedure. Dipole Validation measurement is performed by PCTEST Lab. before each test. The brain simulating material is calibrated by PCTEST using the dielectric probe system and network analyzer to determine the conductivity and permittivity (dielectric constant) of the brain-equivalent material.

PCTEST™ SAR REPORT	SAR MEASUREMENT REPORT			Reviewed by: Quality Manager
SAR Filename: 0509300677	Test Dates: October 18-19, 2005	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA120	Page 33 of 35

16. CONCLUSION

Measurement Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the FCC. These measurements are taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The tested device complies with the requirements in respect to all parameters subject to the test. The test results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because innumerable factors may interact to determine the specific biological outcome of an exposure to electromagnetic fields, any protection guide shall consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.[3]

PCTEST™ SAR REPORT	 SAR MEASUREMENT REPORT 			Reviewed by: Quality Manager
SAR Filename: 0509300677	Test Dates: October 18-19, 2005	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA120	Page 34 of 35

17. REFERENCES

- [1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation, Aug. 1996.
- [2] ANSI/IEEE C95.1 - 1991, *American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 300kHz to 100GHz*, New York: IEEE, Aug. 1992.
- [3] ANSI/IEEE C95.3 - 1991, *IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave*, New York: IEEE, 1992.
- [4] Federal Communications Commission, OET Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01), *Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields*, July 2001.
- [5] IEEE Standards Coordinating Committee 34 – IEEE 1528-2003, *Draft Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices*.
- [6] NCRP, National Council on Radiation Protection and Measurements, *Biological Effects and Exposure Criteria for RadioFrequency Electromagnetic Fields*, NCRP Report No. 86, 1986. Reprinted Feb. 1995.
- [7] T. Schmid, O. Egger, N. Kuster, *Automated E-field scanning system for dosimetric assessments*, IEEE Transaction on Microwave Theory and Techniques, vol. 44, Jan. 1996, pp. 105-113.
- [8] K. Pokovic, T. Schmid, N. Kuster, *Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequencies*, ICECOM97, Oct. 1997, pp. 120-124.
- [9] K. Poković, T. Schmid, and N. Kuster, *E-field Probe with improved isotropy in brain simulating liquids*, Proceedings of the ELMAR, Zadar, Croatia, June 23-25, 1996, pp. 172-175.
- [10] Schmid & Partner Engineering AG, Application Note: Data Storage and Evaluation, June 1998, p2.
- [11] V. Hombach, K. Meier, M. Burkhardt, E. Kuhn, N. Kuster, *The Dependence of EM Energy Absorption upon Human Head Modeling at 900 MHz*, IEEE Transaction on Microwave Theory and Techniques, vol. 44 no. 10, Oct. 1996, pp. 1865-1873.
- [12] N. Kuster and Q. Balzano, *Energy absorption mechanism by biological bodies in the near field of dipole antennas above 300MHz*, IEEE Transaction on Vehicular Technology, vol. 41, no. 1, Feb. 1992, pp. 17-23.
- [13] G. Hartsgrrove, A. Kraszewski, A. Surowiec, *Simulated Biological Materials for Electromagnetic Radiation Absorption Studies*, University of Ottawa, Bioelectromagnetics, Canada: 1987, pp. 29-36.
- [14] Q. Balzano, O. Garay, T. Manning Jr., *Electromagnetic Energy Exposure of Simulated Users of Portable Cellular Telephones*, IEEE Transactions on Vehicular Technology, vol. 44, no.3, Aug. 1995.
- [15] W. Gander, *Computermathematick*, Birkhaeuser, Basel, 1992.
- [16] W.H. Press, S.A. Teukolsky, W.T. Vetterling, and B.P. Flannery, *Numerical Recepies in C*, The Art of Scientific Computing, Second edition, Cambridge University Press, 1992.
- [17] Federal Communications Commission, OET Bulletin 65, Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields. Supplement C, Dec. 1997.
- [18] N. Kuster, R. Kastle, T. Schmid, *Dosimetric evaluation of mobile communications equipment with known precision*, IEEE Transaction on Communications, vol. E80-B, no. 5, May 1997, pp. 645-652.
- [19] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), *Human Exposure to Electromagnetic Fields High-frequency: 10kHz-300GHz*, Jan. 1995.
- [20] Prof. Dr. Niels Kuster, ETH, Eidgenössische Technische Hochschule Zürich, *Dosimetric Evaluation of the Cellular Phone*.

PCTEST™ SAR REPORT	SAR MEASUREMENT REPORT			Reviewed by: Quality Manager
SAR Filename: 0509300677	Test Dates: October 18-19, 2005	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA120	Page 35 of 35

APPENDIX A: SAR TEST DATA

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: AMPS; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 42.31$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 10-18-2005; Ambient Temp: 23.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Touch, Ch. 0383, Standard Battery, Ant Internal

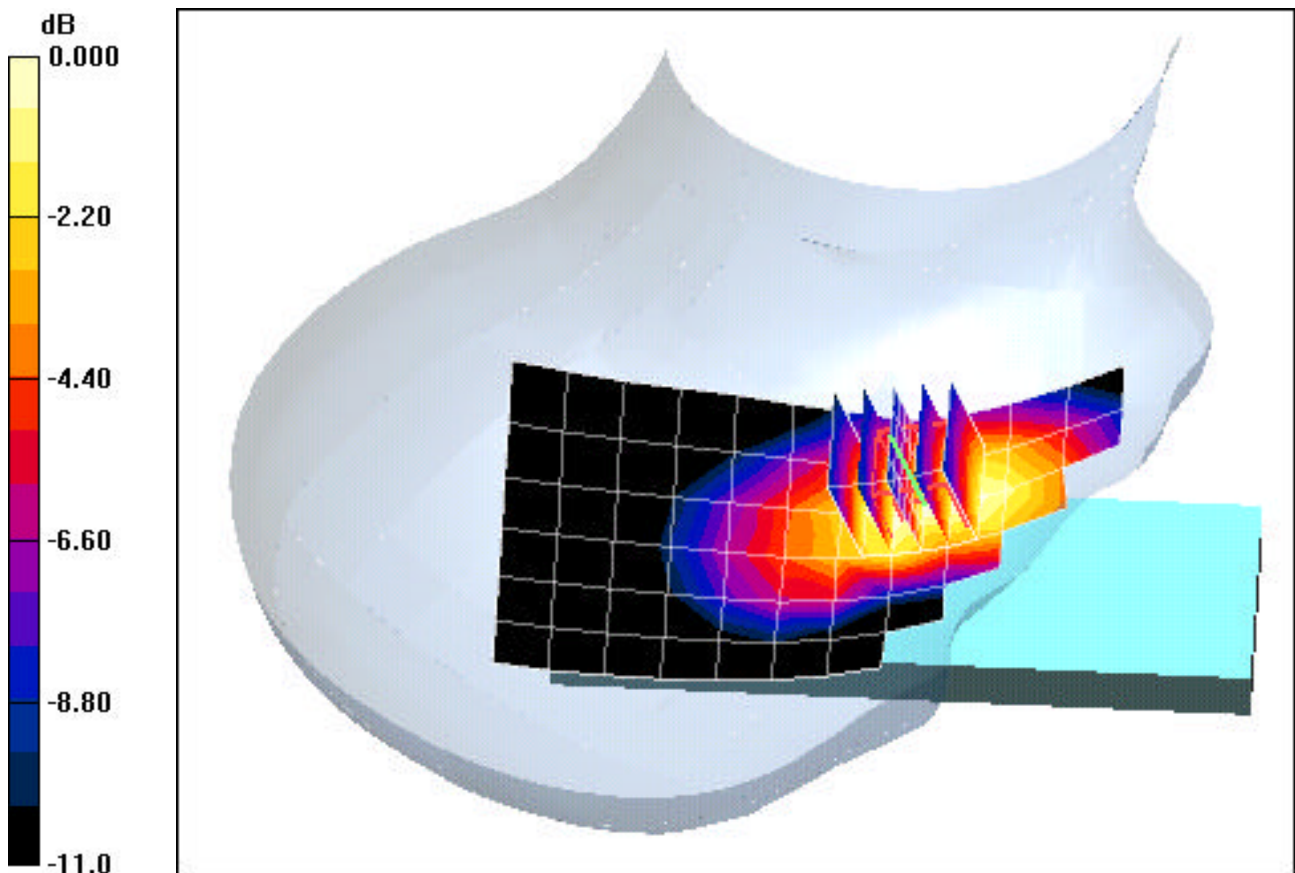
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.71 V/m

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.662 mW/g; SAR(10 g) = 0.429 mW/g



0 dB = 0.784mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: AMPS; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 42.31$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 10-18-2005; Ambient Temp: 23.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Tilt, Ch. 0383, Standard Battery, Ant Internal

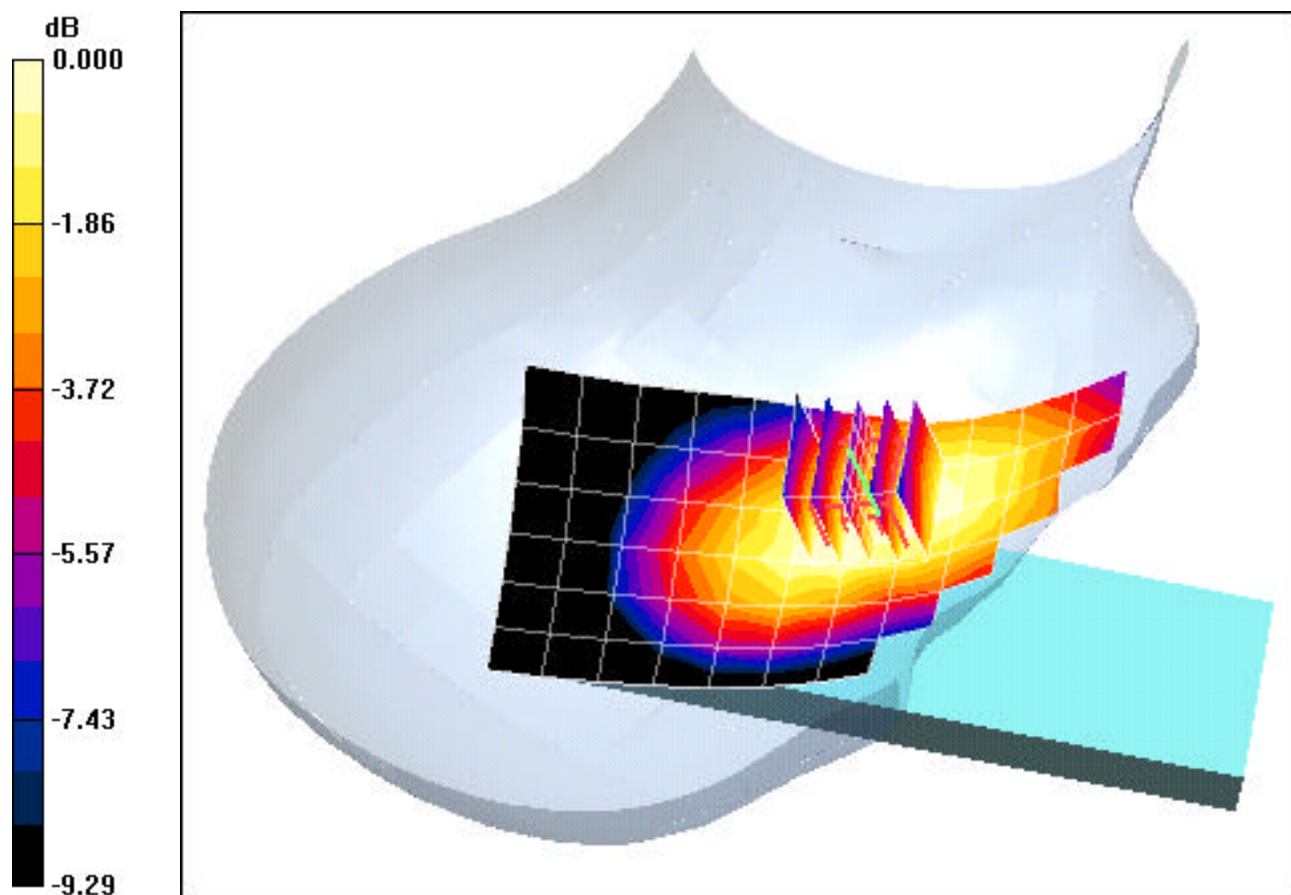
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.38 V/m

Peak SAR (extrapolated) = 0.149 W/kg

SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.087 mW/g



0 dB = 0.127mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: AMPS; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 42.31$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 10-18-2005; Ambient Temp: 23.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Touch, Ch. 0383, Standard Battery, Antenna Internal

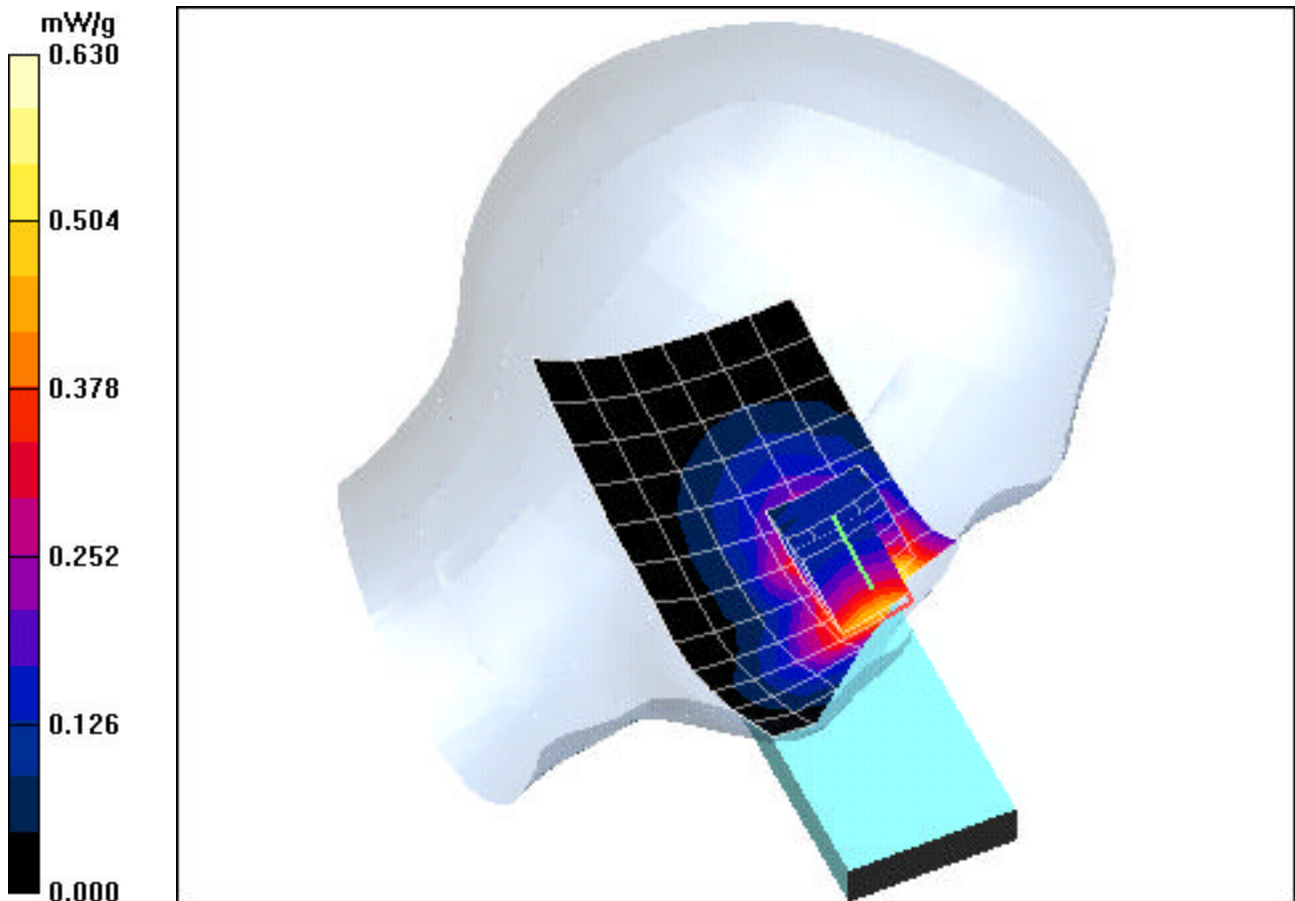
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.53 V/m

Peak SAR (extrapolated) = 0.791 W/kg

SAR(1 g) = 0.548 mW/g; SAR(10 g) = 0.367 mW/g



PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: AMPS; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 42.31$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 10-18-2005; Ambient Temp: 23.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

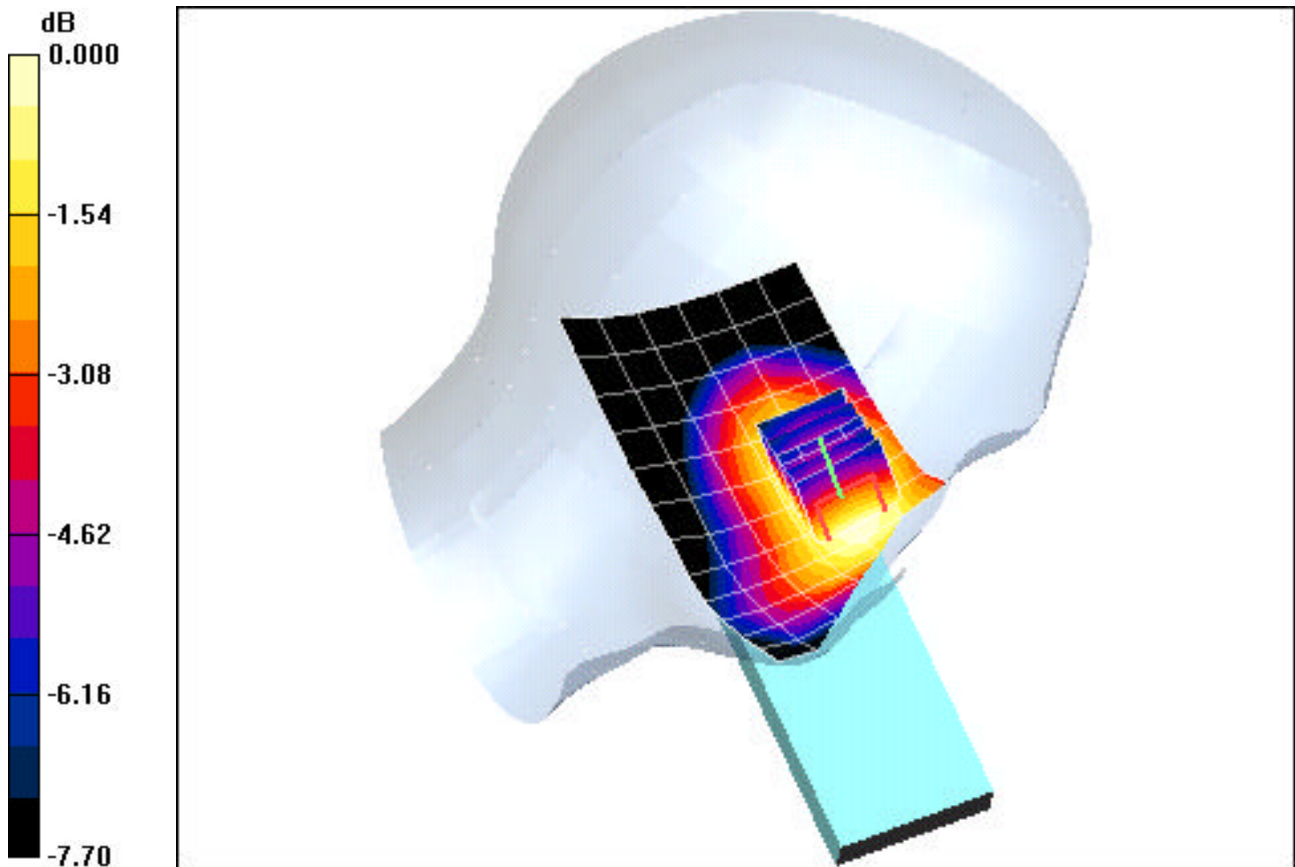
Tilt, Ch. 0383, Standard Battery, Antenna Internal

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.94 V/m Peak SAR (extrapolated) = 0.116 W/kg

SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.069 mW/g



0 dB = 0.099mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: Cellular CDMA; Frequency: 835.89 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 42.31$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 10-18-2005; Ambient Temp: 23.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Touch, Ch. 0363, Standard Battery, Antenna Internal

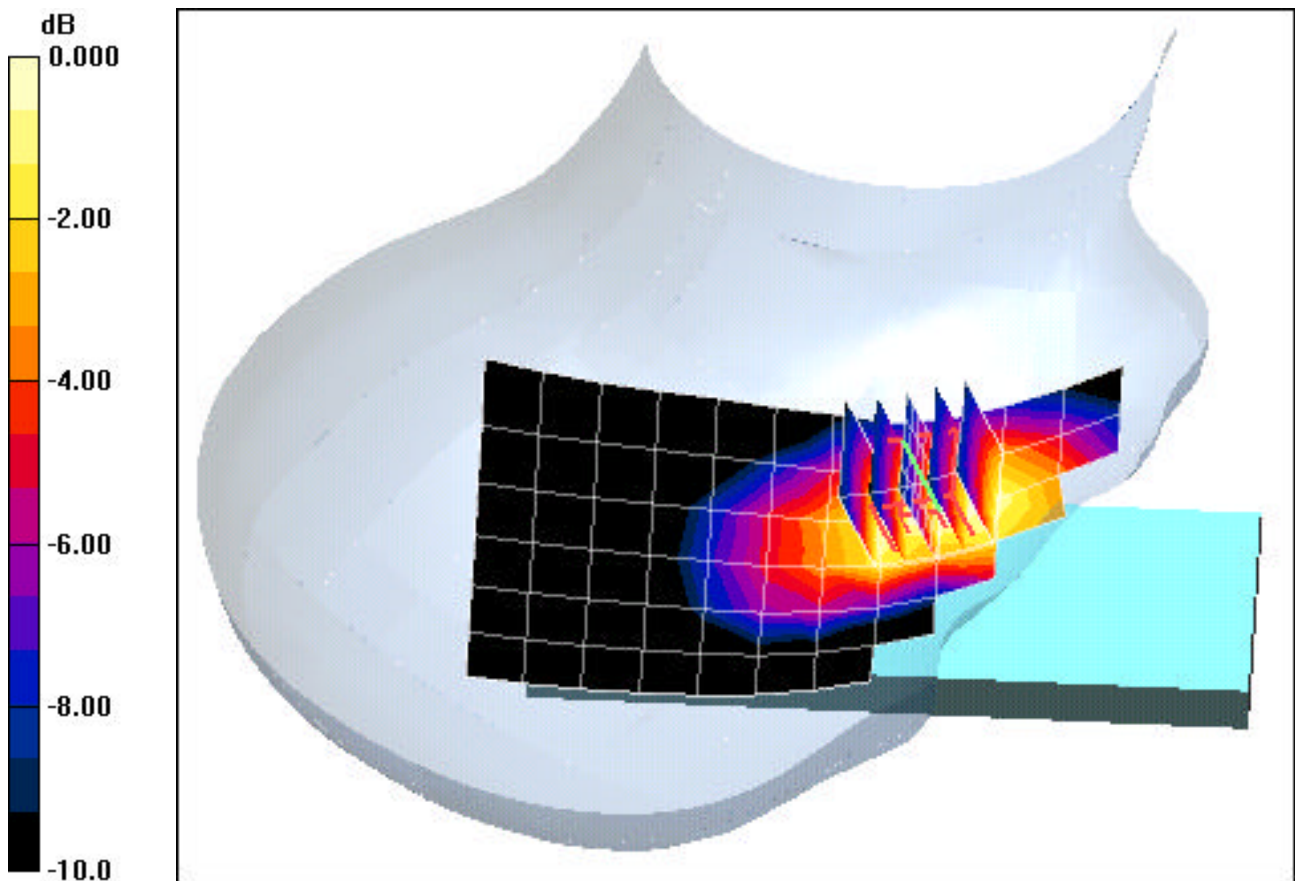
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.76 V/m

Peak SAR (extrapolated) = 0.912 W/kg

SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.392 mW/g



0 dB = 0.691mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: Cellular CDMA; Frequency: 835.89 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 42.31$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 10-18-2005; Ambient Temp: 23.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Tilt, Ch. 0363, Standard Battery, Antenna Internal

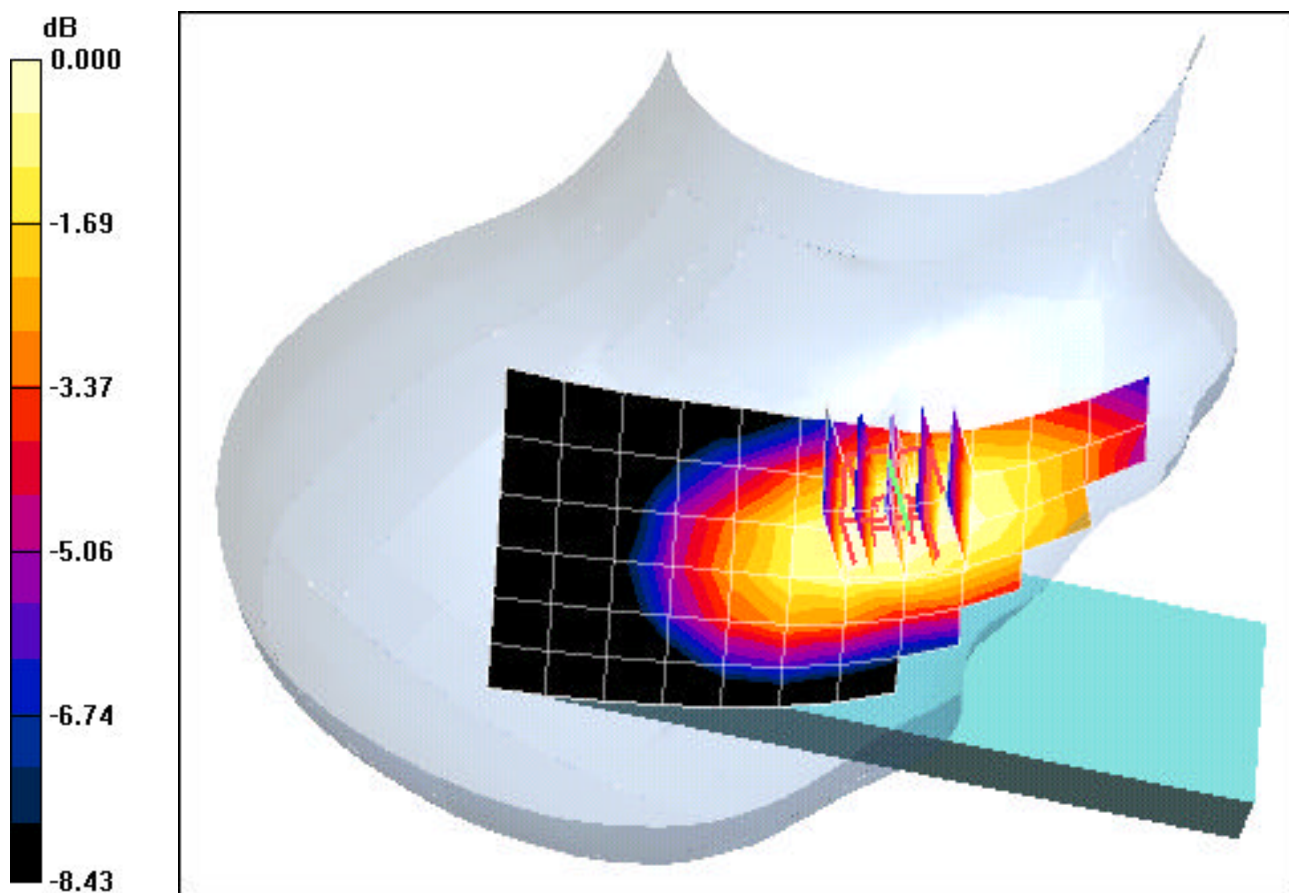
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.47 V/m

Peak SAR (extrapolated) = 0.148 W/kg

SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.087 mW/g



0 dB = 0.127mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: Cellular CDMA; Frequency: 835.89 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 42.31$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 10-18-2005; Ambient Temp: 23.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Touch, Ch. 0363, Standard Battery, Antenna Internal

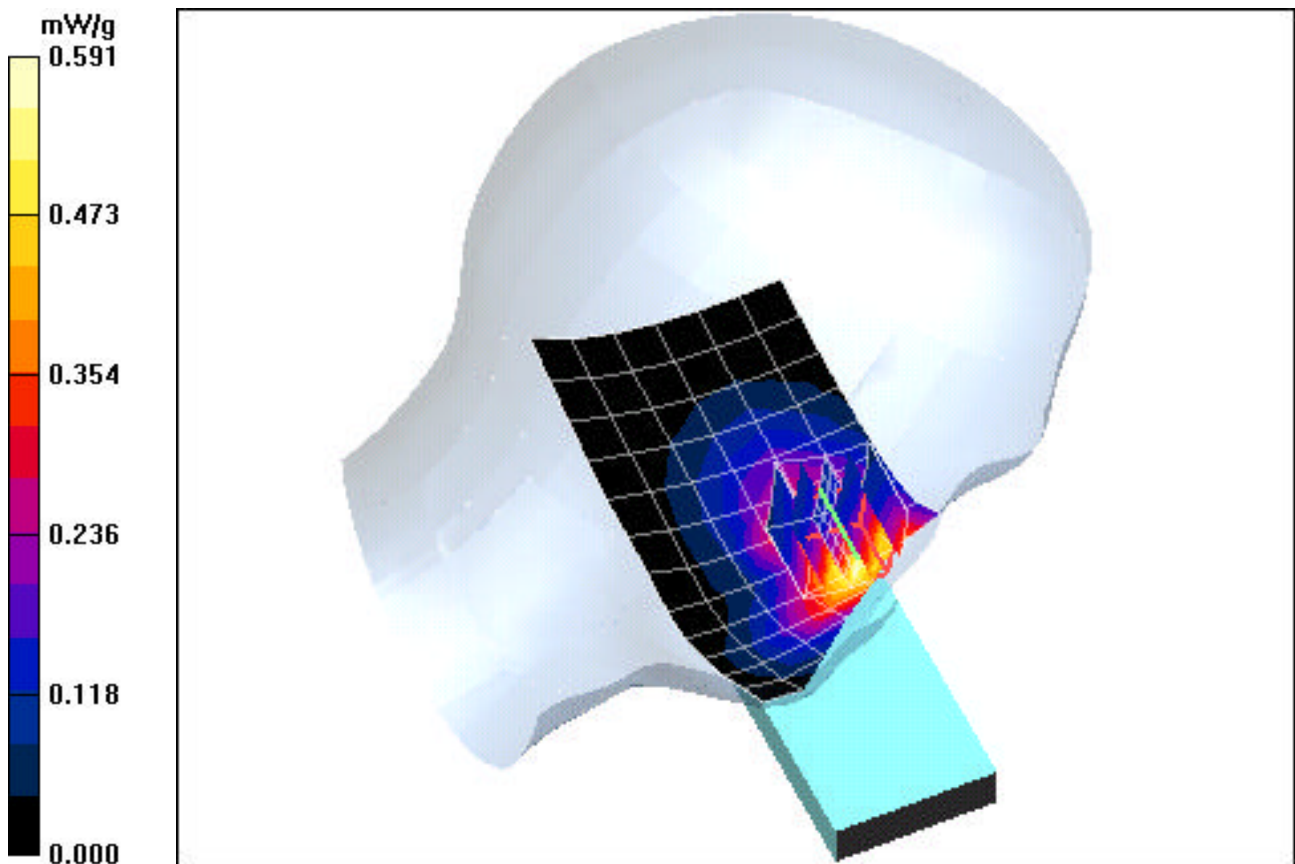
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.49 V/m

Peak SAR (extrapolated) = 0.735 W/kg

SAR(1 g) = 0.511 mW/g; SAR(10 g) = 0.350 mW/g



PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: Cellular CDMA; Frequency: 835.89 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 42.31$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 10-18-2005; Ambient Temp: 23.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Tilt, Ch. 0363, Standard Battery, Antenna Internal

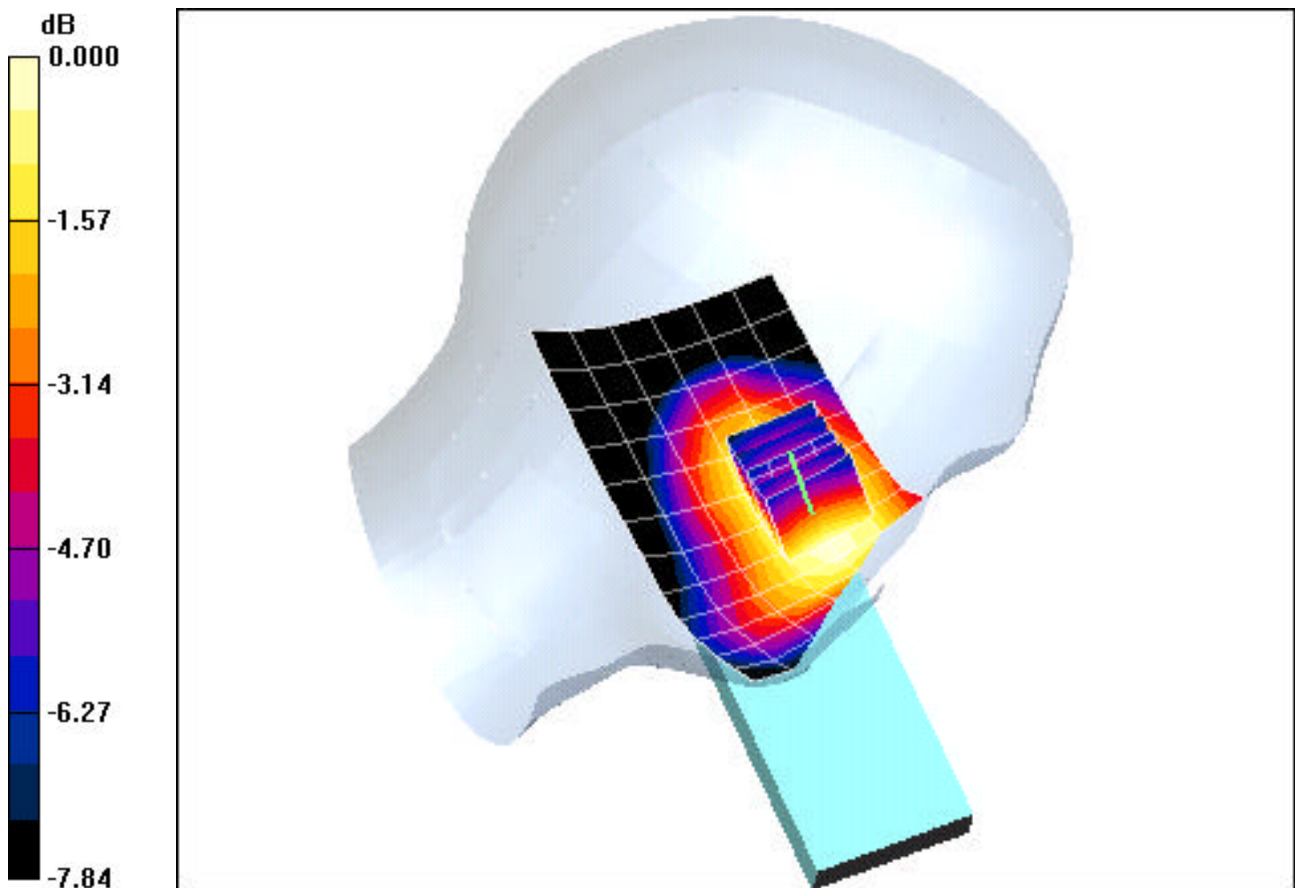
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.10 V/m

Peak SAR (extrapolated) = 0.110 W/kg

SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.065 mW/g



0 dB = 0.094mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.41$ mho/m, $\epsilon_r = 41.09$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 10-19-2005; Ambient Temp: 23.4°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3550; ConvF(6.75, 6.75, 6.75); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Touch, Ch. 0025, Standard Battery, Antenna Internal

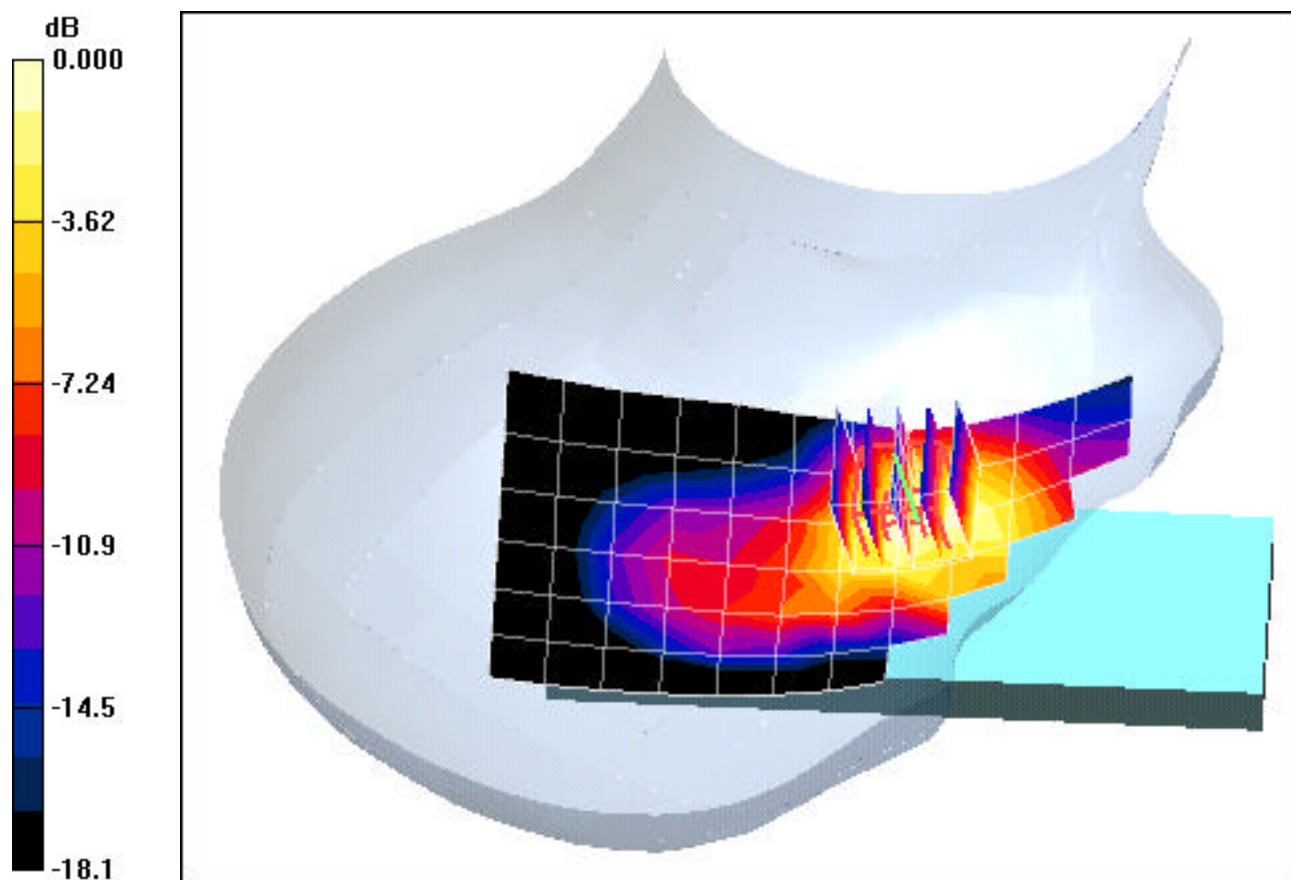
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.69 V/m

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.570 mW/g



0 dB = 1.28mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.41$ mho/m, $\epsilon_r = 41.09$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 10-19-2005; Ambient Temp: 23.4°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3550; ConvF(6.75, 6.75, 6.75); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Tilt, Ch. 0600, Standard Battery, Antenna Internal

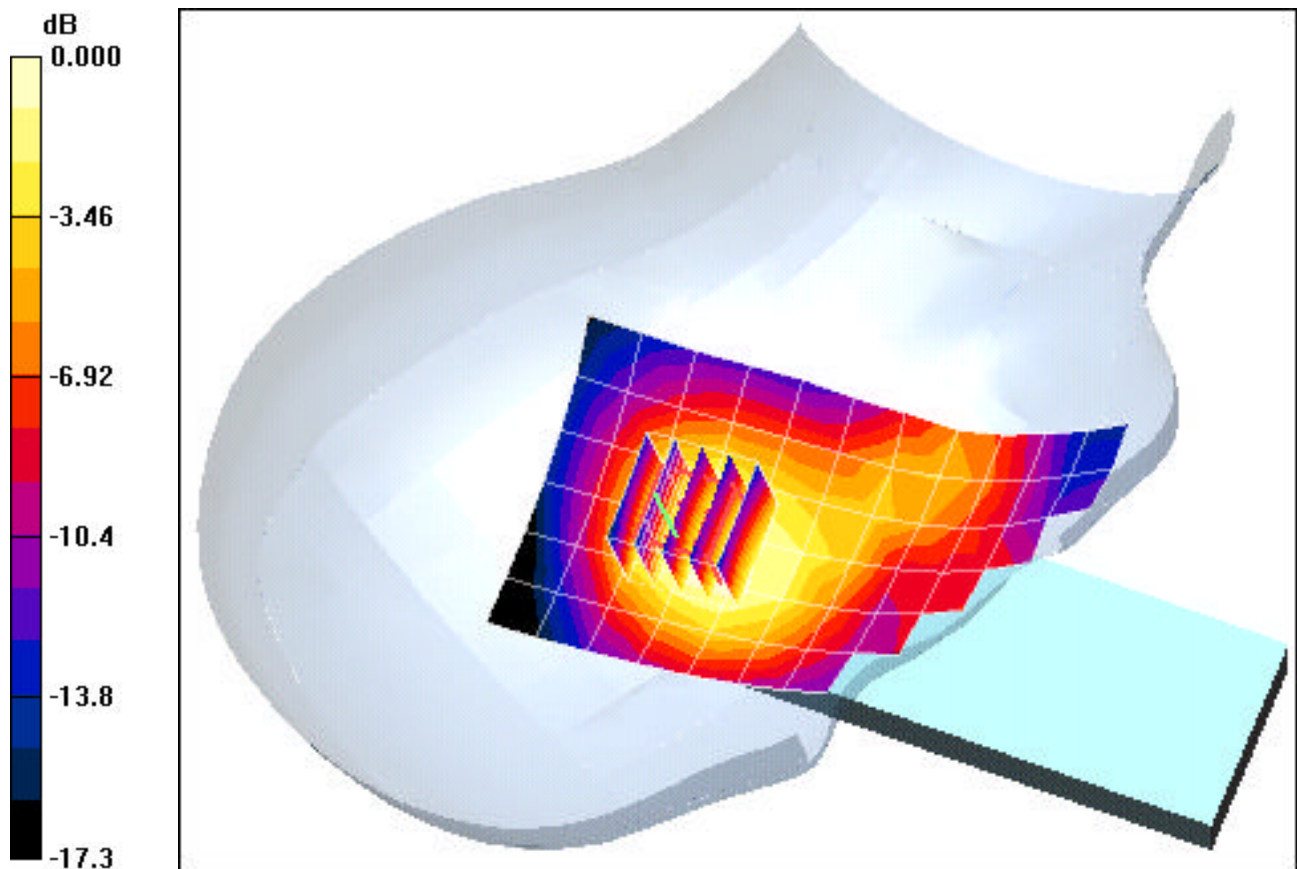
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.2 V/m

Peak SAR (extrapolated) = 0.252 W/kg

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.100 mW/g



0 dB = 0.189mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: PCS CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.41$ mho/m, $\epsilon_r = 41.09$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 10-19-2005; Ambient Temp: 23.4°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3550; ConvF(6.75, 6.75, 6.75); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Touch, Ch. 0025, Standard Battery, Antenna Internal

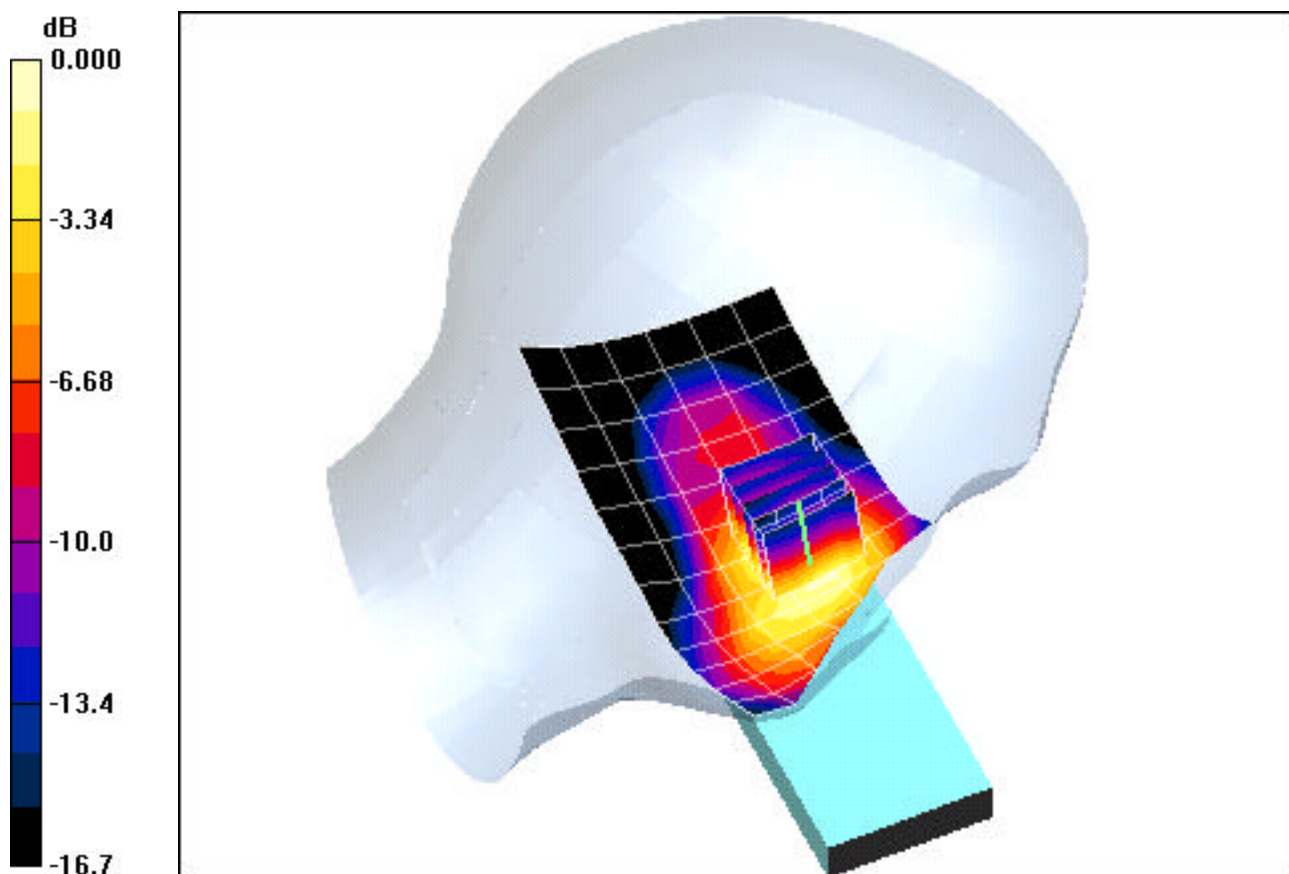
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.86 V/m

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.928 mW/g; SAR(10 g) = 0.509 mW/g



0 dB = 1.11mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Brain ($\sigma = 1.41$ mho/m, $\epsilon_r = 41.09$, $\rho = 1000$ kg/m³)

Phantom section: Left Section

Test Date: 10-19-2005; Ambient Temp: 23.4°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3550; ConvF(6.75, 6.75, 6.75); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Tilt, Ch. 0600, Standard Battery, Antenna Internal

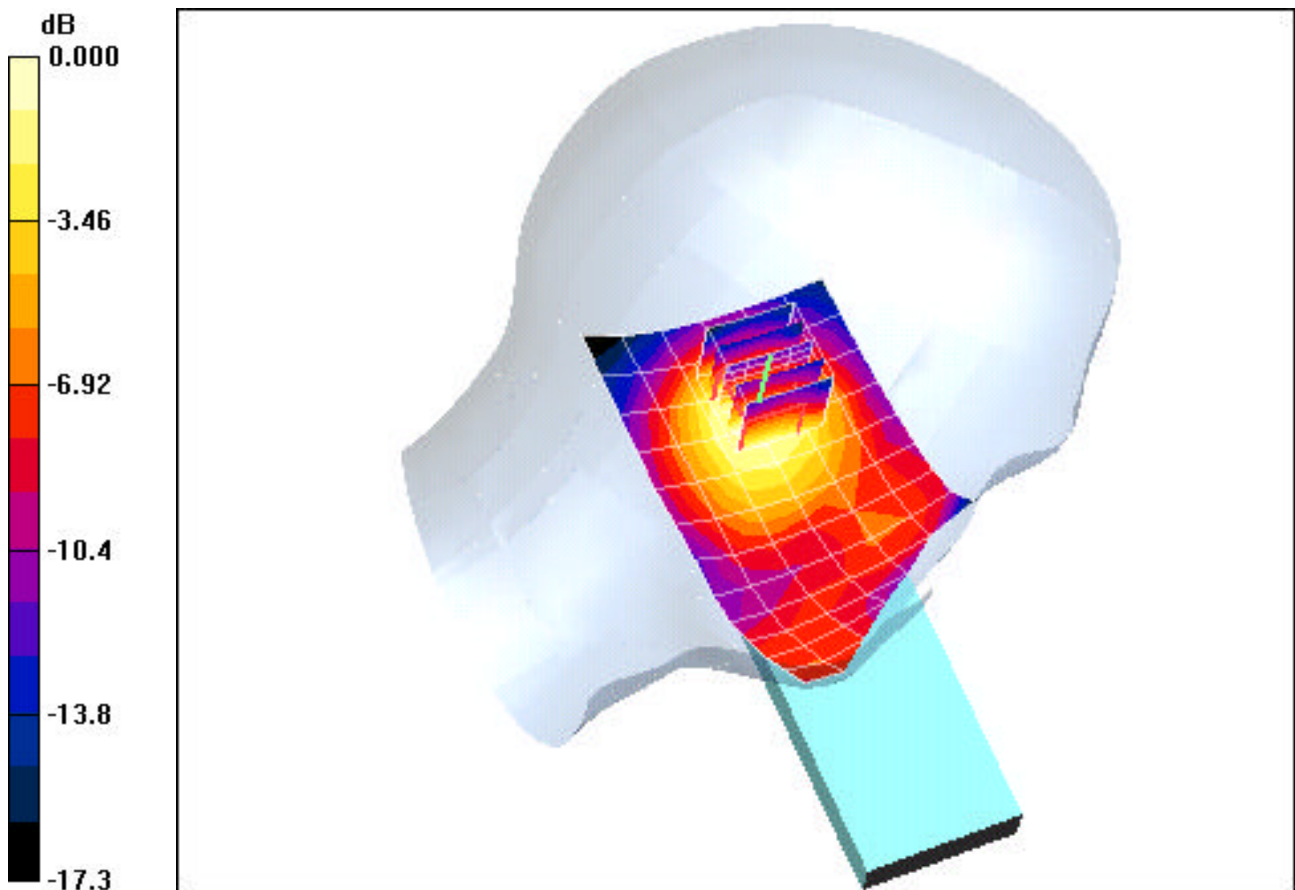
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.3 V/m

Peak SAR (extrapolated) = 0.237 W/kg

SAR(1 g) = 0.154 mW/g; SAR(10 g) = 0.094 mW/g



0 dB = 0.178mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: AMPS; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: 835 Muscle ($\sigma = 0.99$ mho/m, $\epsilon_r = 53.88$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section; Space: 1.5cm from DUT to Flat Phantom

Test Date: 10-19-2005; Ambient Temp: 23.4°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3550; ConvF(7.99, 7.99, 7.99); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP:1357

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Body, Ch. 0383, Standard Battery, Antenna Internal

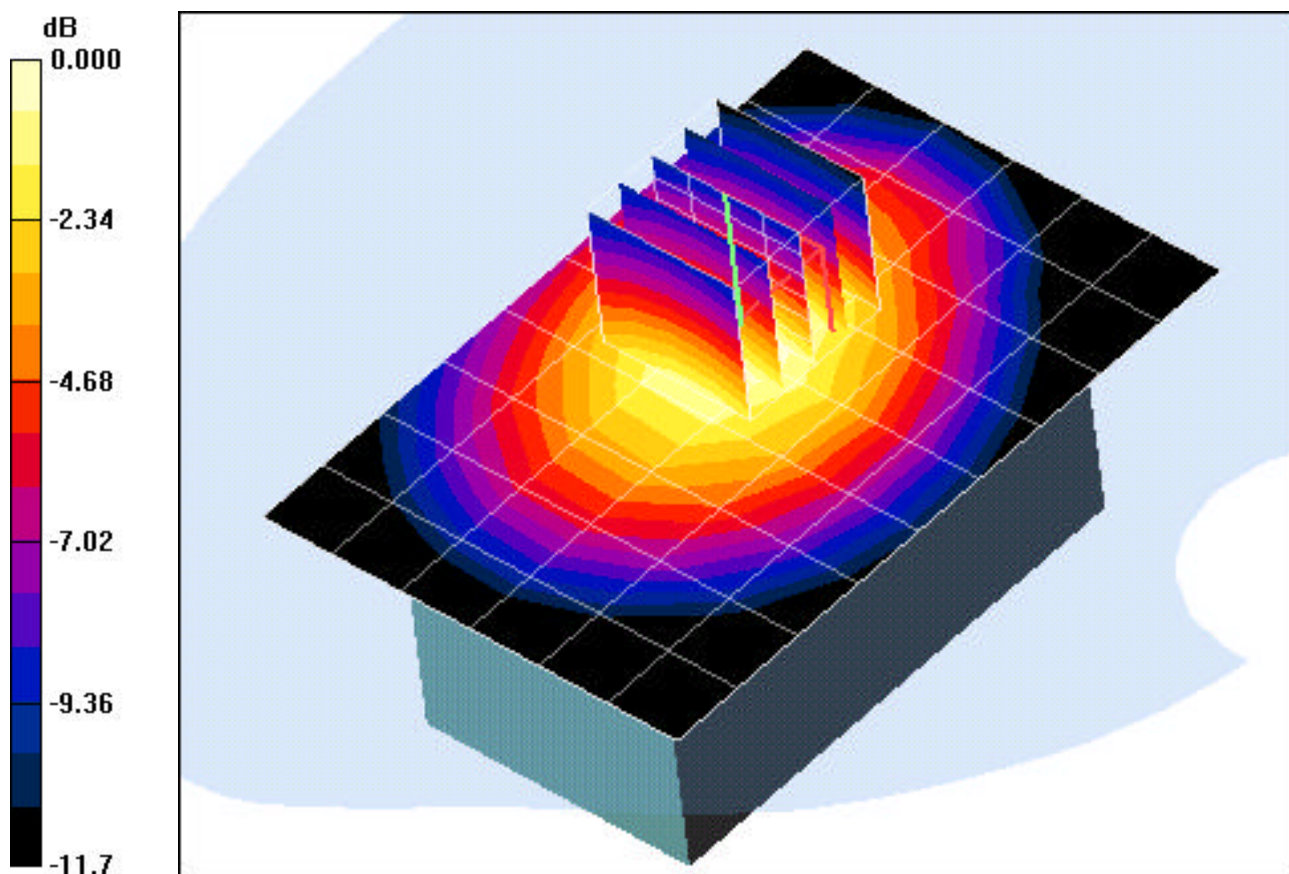
Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.1 V/m

Peak SAR (extrapolated) = 0.830 W/kg

SAR(1 g) = 0.571 mW/g; SAR(10 g) = 0.384 mW/g



0 dB = 0.661mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: Cellular CDMA; Frequency: 835.89 MHz; Duty Cycle: 1:1

Medium: 835 Muscle ($\sigma = 0.99$ mho/m, $\epsilon_r = 53.88$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Test Date: 10-19-2005; Ambient Temp: 23.4°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3550; ConvF(7.99, 7.99, 7.99); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP:1357

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Body, Ch. 0363, Standard Battery, Antenna Internal

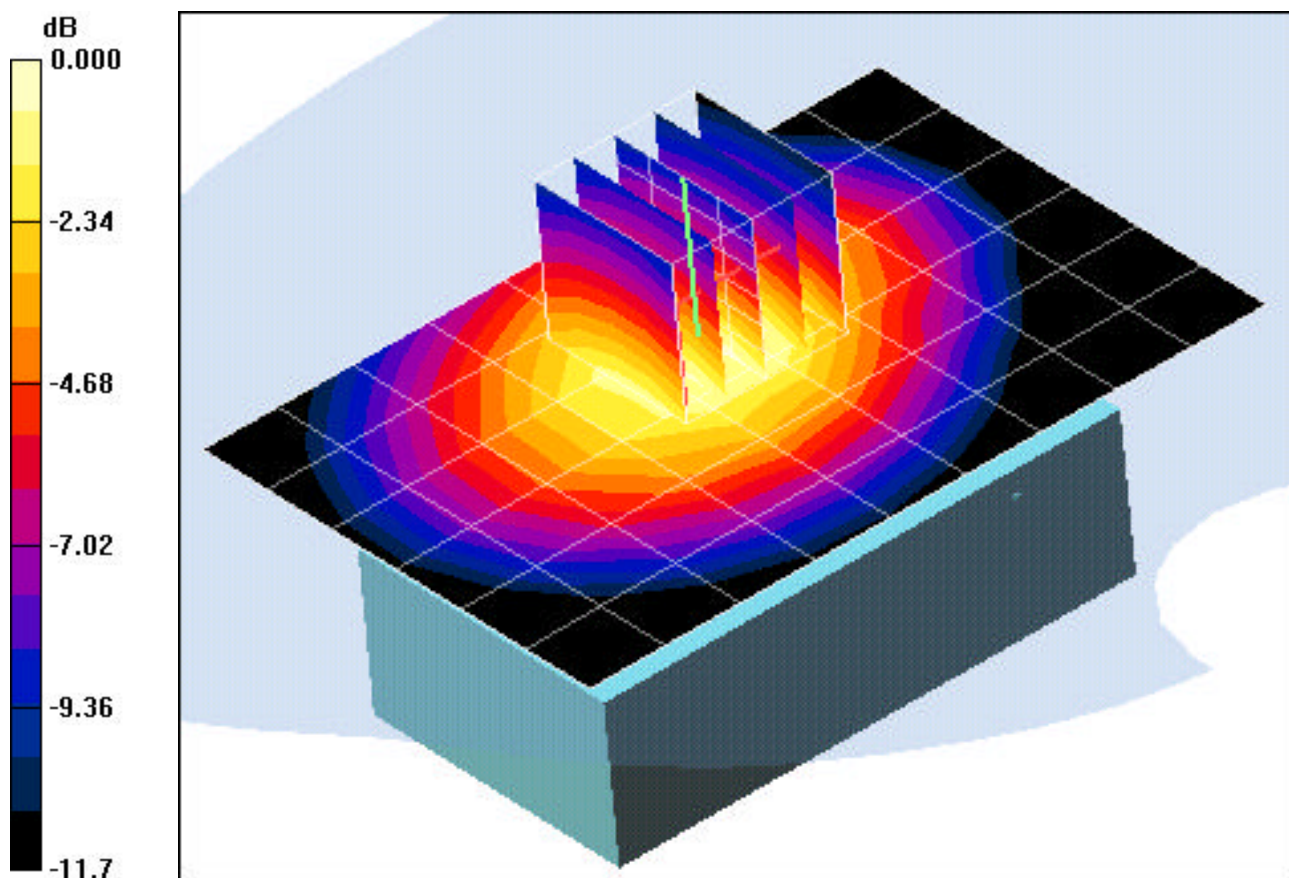
Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.7 V/m

Peak SAR (extrapolated) = 0.748 W/kg

SAR(1 g) = 0.516 mW/g; SAR(10 g) = 0.347 mW/g



0 dB = 0.596mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPH-A120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: PCS CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Muscle ($\sigma = 1.58$ mho/m, $\epsilon_r = 52.23$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section; Space: 1.5cm from DUT to Flat Phantom

Test Date: 10-19-2005; Ambient Temp: 23.4°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3550; ConvF(6.75, 6.75, 6.75); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Body, Ch. 0600, Standard Battery, Antenna Internal

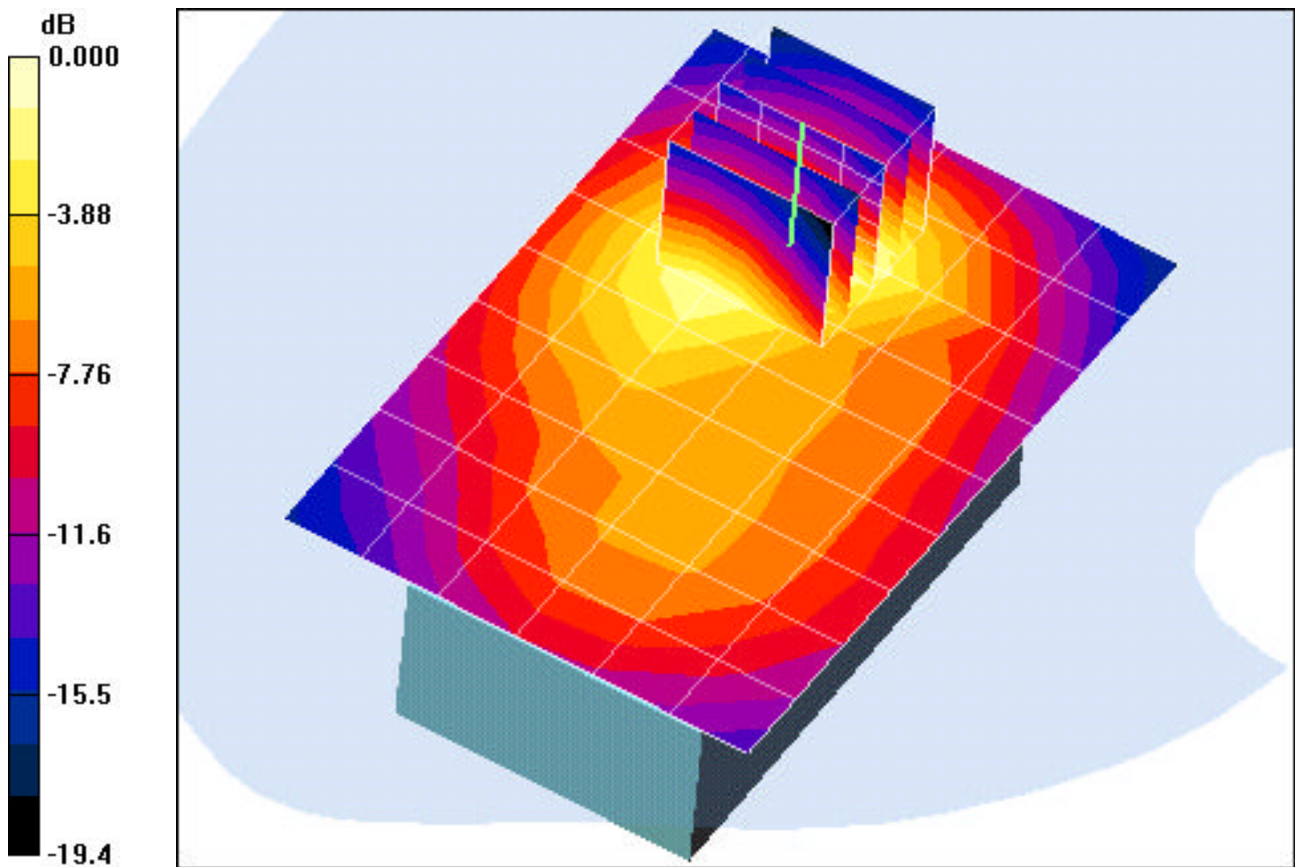
Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.1 V/m

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.651 mW/g; SAR(10 g) = 0.360 mW/g



0 dB = 0.802mW/g

PCTEST ENGINEERING LABORATORY, INC.

DUT: Samsung SPHA120; Type: Tri Mode Cellular Phone; SN: 3FOFFC40

Communication System: AMPS; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: 835 Brain ($\sigma = 0.88$ mho/m, $\epsilon_r = 42.31$, $\rho = 1000$ kg/m³)

Phantom section: Right Section

Test Date: 10-18-2005; Ambient Temp: 23.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN3550; ConvF(8.12, 8.12, 8.12); Calibrated: 10/26/2004

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn637; Calibrated: 9/29/2005

Phantom: SAM Main; Type: SAM 4.0; Serial: TP:1197

Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Touch, Ch. 0383, Standard Battery, Antenna Internal

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.71 V/m

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.662 mW/g; SAR(10 g) = 0.429 mW/g

