

FCC ID: GMLNPD-1GW Test Report #: 02-RF-0066.001



Accredited Laboratory Certificate Number: 1819-01

SAR Compliance Test Report

Test report no.: Number of pages: 02-RF-0066.001

19

Date of report:

2002-08-08

Contact person: Responsible

Nerina Walton

test engineer:

Nerina Walton

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Tested devices:

GMLNPD-1GW, Model 3580

BLC-2, LPS-4, HDC-5, Active Cover

Supplement reports:

Testing has been carried out in accordance with: IEEE P1528-200X, Draft 6.4

Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate

(SAR) in the Human Body Due to Wireless Communications Devices: Experimental

Techniques

FCC Supplement C Edition, 01-01

Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency

Electromagnetic Fields

Documentation:

The documentation of the testing performed on the tested devices is archived for 15 years at

Test & Certification Center (TCC) Dallas

Test results:

The tested device complies with the requirements in respect of all parameters subject to

the test.

The test results and statements relate only to the items tested. The test report shall not be

reproduced except in full, without written approval of the laboratory.

Date and signatures:

For the contents:

2002-08-08

TCC Line Manager

Nerina Walton **Test Engineer**



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APPENDIX A: SCOPE OF ACCREDITATION FOR A2LA APPENDIX B: VALIDATION TEST PRINTOUTS APPENDIX C: SAR DISTRIBUTION PRINTOUTS APPENDIX D: CALIBRATION CERTIFICATE(S)



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1. QUALITY SYSTEM

The quality system in place for TCC-Dallas conforms to ISO/IEC 17025 and has been audited to the standard by A2LA (American Association of Laboratory Accreditation). Appendix D of this report contains the scope of accreditation for A2LA. TCC – Dallas has also been audited using the ISO 9000 Quality System, as part of Nokia Mobile Phones, Inc., by ABS (American Bureau of Shipping) Quality Evaluations Inc.

TCC-Dallas is a recognized laboratory with the Federal Communications Commission in filing applications for Certification under Parts 15 and 18, Registration Number 100060, and Industry Canada, Registration Number IC 661.



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2. SUMMARY FOR SAR TEST REPORT

Date of test	2002.07.08 – 2002.07.23
Contact person	Nerina Walton
Test plan referred to	-
FCC ID	GMLNPD-1GW
SN, HW, SW and DUT numbers of tested device	ESN: 235/14054226, HW: Proto B5.0, SW: B100-02w24,
	Type: NPD-1GW, DUT: 02-RF-0066, 01 of 19
Accessories used in testing	BLC-2 Battery, LPS-4 Loopset, HDC-5 Headset, Active Cover
Notes	-
Document code	02-RF-0066.001
Responsible test engineer	Nerina Walton
Measurement performed by	Nerina Walton / Mark Severson

2.1 Maximum Results Found during SAR Evaluation

The equipment is deemed to fulfil the requirements if the measured values are less than or equal to the limit.

2.1.1 Head Configuration

Mode	Ch / <i>f</i> (MHz)	Power (dBm)	Position	Limit (mW/g)	Measured (mW/g)	Result
AMPS	384 / 836.52	26.0	Right Touch, Antenna Retracted with Regular Cover	1.6	1.27	PASSED
CDMA 800	777 / 848.31	25.1	Left Touch, Antenna Retracted with Regular Cover	1.6	1.26	PASSED

2.1.2 Body Worn Configuration

Mode	Ch / f (MHz)	Power (dBm)	Position	Limit (mW/g)	Measured (mW/g)	Result
AMPS	991 / 824.04	26.0	Flat, Antenna Retracted with Regular Cover and HDC-5	1.6	1.10	PASSED
CDMA 800	777 / 848.31	25.1	Flat, Antenna Retracted with Active Cover and HDC-5	1.6	0.70	PASSED

2.1.3 Measurement Uncertainty

Combined Standard Uncertainty	± 13.6%
Expanded Standard Uncertainty (k=2)	± 27.1%



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3. DESCRIPTION OF TESTED DEVICE

Device category	Portable device			
Exposure environment	Uncontrolled exposure			
Unit type	Prototype unit			
Case type	Fixed case			
Mode of Operation	AMPS	CDMA 800		
Maximum Device Rating	Power Class III	Power Class III		
Modulation Mode	Frequency Modulation	Quadrature Phase		
	(FM)	Shift Keying		
Duty Cycle	1	1		
Transmitter Frequency Range (MHz)	824.04 - 848.97	824.70 - 848.31		

3.1 Picture of Phone

The tested device, GMLNPD-1GW is shown below with the antenna retracted, with both the regular and active covers.



The tested device, GMLNPD-1GW, is shown below with the antenna extended.





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3.2 Description of the Antenna

Туре	Retractable whip antenna
Location	Back of phone, right hand side

3.3 **Battery Options**

There is only one battery available for the tested device, a rechargeable Li-ion battery, BLC-2.

Body Worn Accessories 3.4

No body worn accessories are available for the GMLNPD-1GW.

4. **TEST CONDITIONS**

4.1 **Ambient Conditions**

Ambient temperature (°C)	22±2
Tissue simulating liquid temperature (°C)	22±2
Humidity (%)	47

4.2 RF characteristics of the test site

Tests were performed in a fully enclosed RF shielded environment.

4.3 Test Signal, Frequencies, and Output Power

The device was controlled by using a radio tester. Communication between the device and the tester was established by air link.

Measurements were performed on the lowest, middle and highest channels of the operating band.

The phone was set to maximum power level during all tests and at the beginning of each test the battery was fully charged.

The DASY3 system measures power drift during SAR testing by comparing e-field in the same location at the beginning and at the end of measurement. These records were used to monitor stability of power output.



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5. DESCRIPTION OF THE TEST EQUIPMENT

The measurements were performed with an automated near-field scanning system, DASY3, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland.

Test Equipment	Model	NMP #	Serial Number	Due Date
DASY3, Data Acquisition	DAE V1	2108	377	11/02
E-field Probe	ET3DV6	2956	1505	05/03
Dipole Validation Kit	D835V2	2951	415	05/03

E-field probe and dipole validation kit calibration records are presented in Appendix D.

Additional equipment (required for validation).

Test Equipment	Model	NMP #	Serial Number	Due Date
Signal Generator	HP 8648C	0409	3836A04346	06/03
Amplifier	AR 5S1G4	0188	25583	-
Coupler	AR DC7144	2057	25304	-
Power Meter	Boonton 4232A	2996	64701	05/03
Power Sensor	Boonton 51015	2997	32187	05/03
Power Sensor	Boonton 51015	2998	32188	05/03
Thermometer	Omega CL27	3391	T-228450	03/03
Network Analyzer	HP 8720D	0455	US38431353	06/03
Dielectric Probe Kit	Agilent 85070C	3089	US99360172	-

The calibration interval on all items listed above can be obtained from the Engineering Services Group within NMP, Product Creation - Dallas. Where relevant, measuring equipment is subjected to in-service checks between testing. TCC - Dallas shall notify clients promptly, in writing, of identification of defective measuring equipment that casts doubt on the validity of results given in this report.



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5.1 System Accuracy Verification

The probes are calibrated annually by the manufacturer. Dielectric parameters of the simulating liquids are measured using an Agilent 85070C dielectric probe kit and an HP 8720D network analyzer.

SAR measurements of the tested device were performed within 24 hours of system accuracy verification, which was done using the dipole validation kit.

The dipole antenna, which is manufactured by Schmid & Partner Engineering AG, is matched to be used near a flat phantom filled with tissue simulating solution. Length of the 835MHz dipole is 161mm with an overall height of 330mm. A specific distance holder is used in the positioning to ensure correct spacing between the phantom and the dipole.

A power level of 250 mW was supplied to the dipole antenna placed under the flat section of the SAM phantom. Validation results are in the table below and a print out of the validation tests are presented in Appendix B. All the measured parameters were within specification.

	f		SAR	Dielectric Parameters		
Tissue	(MHz)	Description	(W/kg), 1g	$\mathbf{\epsilon}_{r}$	σ (S/m)	Temp (°C)
		Measured 07.08.02	10.80	39.9	0.90	20.8
		Measured 07.09.02	10.96	41.6	0.92	23.5
		Measured 07.10.02	11.08	42.0	0.94	21.6
		Measured 07.11.02	11.04	41.9	0.93	21.6
Head	835	Measured 07.12.02	10.96	41.1	0.92	21.7
		Measured 07.15.02	11.08	41.3	0.93	21.6
		Measured 07.16.02	11.00	41.2	0.92	21.3
		Measured 07.17.02	11.08	41.3	0.92	21.6
		Reference Result	10.10	41.7	0.89	N/A
		Measured 07.19.02	10.72	57.2	0.94	21.2
		Measured 07.20.02	10.56	57.1	0.94	21.7
Muscle	835	Measured 07.22.02	10.96	57.3	0.96	21.7
		Measured 07.23.02	10.88	57.0	0.95	21.8
		Reference Result	10.40	55.4	0.97	N/A

5.2 Tissue Simulants

All dielectric parameters of tissue simulants were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the ear reference point of the phantom was $15\text{cm} \pm 5\text{mm}$ during all tests. Volume for each tissue simulant was 26 litres.



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5.2.1 Head Tissue Simulant

The composition of the brain tissue simulating liquid for 835 MHz is:-

51.07% De-Ionized Water

47.31% Sugar 1.15% Salt 0.23% HEC 0.24% Bactericide

f	Description	Dielectric P	Dielectric Parameters		
(MHz)		$\mathbf{\epsilon}_{r}$	σ (S/m)		
	Measured 07.08.02	39.9	0.90	20.8	
	Measured 07.09.02	41.6	0.92	23.5	
	Measured 07.10.02	42.0	0.94	21.6	
	Measured 07.11.02	41.9	0.93	21.6	
836.52	Measured 07.12.02	41.1	0.92	21.7	
	Measured 07.15.02	41.3	0.93	21.6	
	Measured 07.16.02	41.2	0.92	21.3	
	Measured 07.17.02	41.3	0.92	21.6	
	Recommended Values	41.5	0.90	20-26	

Recommended values are adopted from OET Bulletin 65 (97-01) Supplement C (01-01).

5.2.2 Muscle Tissue Simulant

The composition of the muscle tissue simulating liquid for 835 MHz is:-

65.45% De-Ionized Water

34.31% Sugar 0.62% Salt 0.10% Bactericide

f	Description	Dielectric P	Temp (°C)	
(MHz)		$\mathbf{\epsilon}_{r}$	σ (S/m)	
	Measured 07.19.02	57.2	0.94	21.2
	Measured 07.20.02	57.1	0.94	21.7
836.52	Measured 07.22.02	57.6	0.96	21.7
	Measured 07.23.02	57.0	0.95	21.8
	Recommended Values	55.2	0.97	20-26

Recommended values are adopted from OET Bulletin 65 (97-01) Supplement C (01-01).



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5.3 Phantoms

"SAM v4.0" phantom", manufactured by SPEAG, was used during the measurement. It has a fiberglass shell integrated into a wooden table. The shape of the shell corresponds to the phantom defined by SCC34-SC2. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. Reference markings on



the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.

The thickness of phantom shell is 2 mm except for the ear, where an integrated ear spacer provides a 6 mm spacing from the tissue boundary. Manufacturer reports tolerance in shell thickness to be ± 0.1 mm.

5.4 Isotropic E-Field Probe ET3DV6

Construction Symmetrical design with triangular core

Built-in optical fiber for surface detection system

Built-in shielding against static charges

PEEK enclosure material (resistant to organic solvents, e.g., glycolether)

Calibration Calibration ceritificate in Appendix C

Frequency 10 MHz to 3 GHz (dosimetry); Linearity: \pm 0.2 dB (30 MHz to 3 GHz)

Optical Surface \pm 0.2 mm repeatability in air and clear liquids over diffuse reflecting

Detection surfaces

Directivity \pm 0.2 dB in HSL (rotation around probe axis)

± 0.4 dB in HSL (rotation normal to probe axis)

Dynamic Range 5 μ W/g to > 100 mW/g; Linearity: \pm 0.2 dB

Dimensions Overall length: 330 mm

Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm

Distance from probe tip to dipole centers: 2.7 mm

Application General dosimetry up to 3 GHz

Compliance tests of mobile phones

Fast automatic scanning in arbitrary phantoms





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6. DESCRIPTION OF THE TEST PROCEDURE

6.1 **Test Positions**

The device was placed into a holder using a special positioning tool, which aligns the bottom of the device with the holder and ensures that holder contacts only to the sides of the device. After positioning is done, tool is removed. This method provides standard positioning and separation, and also ensures free space for antenna.

Device holder was provided by SPEAG together with DASY3.

6.1.1 **Against Phantom Head**

Measurements were made on both the "left hand" and "right hand" side of the phantom.

The device was positioned against phantom according to OET Bulletin 65 (97-01) Supplement C (01-01). Definitions of terms used in aligning the device to a head phantom are available in IEEE Draft Standard P1528-2001 "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques"

Initial Ear Position 6.1.1.1

The device was initially positioned with the earpiece region pressed against the ear spacer of a head phantom parallel to the "Neck-Front" line defined along the base of the ear spacer that contains the "ear reference point". The "test device reference point" is aligned to the "ear reference point" on the head phantom and the "vertical centerline" is aligned to the "phantom reference plane".

6.1.1.2 **Touch Position**

"Initial ear position" alignments are maintained and the device is brought toward the mouth of the head phantom by pivoting along the "Neck-Front" line until any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom or when any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.

The following picture shows the tested device in the left touch position:



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6.1.1.3 Tilt Position

In the "Touch Position", if the earpiece of the device is not in full contact with the phantom's ear spacer and the peak SAR location for the "touch position" is located at the ear spacer region or corresponds to the earpiece region of the handset, the device is returned to the "initial ear position" by rotating it away from the mouth until the earpiece is in full contact with the ear spacer. Otherwise, the device is moved away from the cheek perpendicular to the line passes through both "ear reference points" for approximate 2-3 cm. While it is in this position, the device is tilted away from the mouth with respect to the "test device reference point" by 15°. After the tilt, it is then moved back toward the head perpendicular to the line passes through both "ear reference points" until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process is repeated with a tilt angle less than 15° so that the device and its antenna would touch the phantom simultaneously.

The following picture shows the tested device in the left tilt position:





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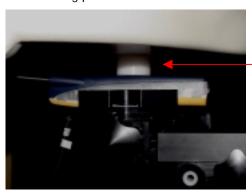
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6.1.2 Body Worn Configuration

Since there are no body worn accessories available for the GMLNPD-1GW, body SAR measurements were performed with the antenna facing towards the flat part of the phantom with a separation distance of 20mm.

Body SAR measurements were performed with the HDC-5 headset connected and were then repeated with the LPS-4 loopset connected.

The following picture shows the tested device in the body test position:-



20mm spacer.

Note: the 20mm spacer was removed during the SAR measurement.

6.2 Scan Procedures

First coarse scans are used for quick determination of the field distribution. Next a cube scan, 5x5x7 points; spacing between each point 8x8x5 mm, is performed around the highest E-field value to determine the averaged SAR-distribution over 1g.

6.3 SAR Averaging Methods

The maximum SAR value is averaged over its volume using interpolation and extrapolation.

The interpolation of the points is done with a 3d-Spline. The 3d-Spline is composed of three one-dimensional splines with the "Not a knot" -condition [W. Gander, Computermathematik, p. 141-150] (x, y and z -directions) [Numerical Recipes in C, Second Edition, p 123].

The extrapolation is based on least square algorithm [W. Gander, Computermathematik, p.168-180]. Through the points in the first 30 mm in all z-axis, polynomials of order four are calculated. This polynomial is then used to evaluate the points between the surface and the probe tip. The points, calculated from the surface, have a distance of 1mm from one another.



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7. MEASUREMENT UNCERTAINTY

7.1 Description of Individual Measurement Uncertainty

7.1.1 Assessment Uncertainty

Uncertainty description	Uncert. value %	Probability distribution	Div.	Ci	Stand. uncert (1g) %	v _i or v _{eff}
Measurement System						
Probe calibration	± 4.4	normal	1	1	± 4.4	∞
Axial isotropy of the probe	± 4.7	rectangular	√3	$(1-c_p)^{1/2}$	± 1.9	8
Sph. Isotropy of the probe	± 9.6	rectangular	√3	$(c_p)1^{/2}$	± 3.9	8
Spatial resolution	± 0.0	rectangular	√3	1	± 0.0	8
Boundary effects	± 5.5	rectangular	√3	1	± 3.2	8
Probe linearity	± 4.7	rectangular	√3	1	± 2.7	8
Detection limit	± 1.0	rectangular	√3	1	± 0.6	8
Readout electronics	± 1.0	normal	1	1	± 1.0	8
Response time	± 0.8	rectangular	√3	1	± 0.5	8
Integration time	± 1.4	rectangular	√3	1	± 0.8	8
RF ambient conditions	± 3.0	rectangular	√3	1	± 1.7	8
Mech. constrains of robot	± 0.4	rectangular	√3	1	± 0.2	8
Probe positioning	± 2.9	rectangular	√3	1	± 1.7	8
Extrap. and integration	± 3.9	rectangular	√3	1	± 2.3	8
Test Sample Related						
Device positioning	± 6.0	normal	0.89	1	± 6.7	12
Device holder uncertainty	± 5.0	normal	0.84	1	± 5.9	8
Power drift	± 5.0	rectangular	√3	1	± 2.9	8
Phantom and Setup						
Phantom uncertainty	± 4.0	rectangular	√3	1	± 2.3	8
Liquid conductivity (target)	± 5.0	rectangular	√3	0.6	± 1.7	8
Liquid conductivity (meas.)	± 10.0	rectangular	√3	0.6	± 3.5	8
Liquid permittivity (target)	± 5.0	rectangular	√3	0.6	± 1.7	8
Liquid permittivity (meas.)	± 5.0	rectangular	√3	0.6	± 1.7	8
Combined Standard Uncertainty					± 13.6	
Expanded Standard Uncertainty (k=2)					± 27.1	



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8. RESULTS

Corresponding SAR distribution print outs of maximum results in every operating mode and position (indicated in bold), are shown in Appendix C; it also includes Z-plots of maximum measurement results in head and body worn configurations. The SAR distributions are substantially similar or equivalent to the plots submitted regardless of used channel in each mode and position.

8.1 Head Configuration

8.1.1 Regular Cover

	Channel/ Dower		Channel/ Power		SAR, averaged over 1g (mW/g)				
Mode	f (MHz)	(dBm)	Antenna	Left-hand		Right-hand			
	/ (IVIDZ)	(ubili)		Touch	Tilt	Touch	Tilt		
	991 / 824.04	/ 824.04 26.0	extended	1.20	0.84	1.06	0.80		
			retracted	1.08	0.68	1.24	0.64		
VIVIDO	AMPS 384 / 836.52 799 / 848.97	26.0	extended	1.18	0.92	1.03	0.79		
AIVII 3			retracted	1.21	0.81	1.27	0.75		
		25.1	extended	0.98	0.89	0.83	0.69		
	177 / 040.97	23.1	retracted	1.25	0.80	1.26	0.76		

	Channel/	Power		SAR, a	veraged	over 1g (r	mW/g)
Mode	f (MHz)	(dBm)	Antenna	Left-hand		Right-hand	
	7 (IVIFIZ)	(uDIII)		Touch	Tilt	Touch	Tilt
	1013 / 824.70	24.70 26.0	extended	0.92	0.72	0.84	0.62
			retracted	0.86	0.54	0.84	0.51
CDMA	384 / 836.52	26.0	extended	0.97	0.80	0.82	0.61
800	384 / 830.52		retracted	1.02	0.66	0.98	0.57
	777 / 848.31	25.1	extended	1.01	0.90	0.85	0.73
	777 040.31		retracted	1.26	0.85	1.21	0.74



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8.1.2 Active Cover

Since the active cover provides a greater distance to the head phantom than the regular cover, it is expected to give lower head SAR results. On this basis, SAR measurements were performed on the tested device in those modes / frequencies and head positions that had a SAR value of 0.80mW/g or higher when measured with the regular cover.

	Channel/	Power		SAR, averaged over 1g (mW/g)			
Mode	f (MHz)	(dBm)	Antenna	Left-hand		Right-hand	
	/ (IVIDZ)	(ubili)		Touch	Tilt	Touch	Tilt
	991 / 824.04	26.0	extended	1.02	0.98	0.82	0.78
	771 / 024.04		retracted	0.69	-	0.64	-
AMPS	384 / 836.52	26.0	extended	0.99	1.07	0.80	-
AIVII 3	AIVIP3 304 / 030.32		retracted	0.86	0.78	0.75	-
	799 / 848.97	25.1	extended	0.91	0.96	0.63	-
	199 / 848.97		retracted	0.87	0.79	0.71	-

	Channel/	Power		SAR, averaged over 1g (mW/g)			
Mode	f (MHz)	(dBm)	Antenna	Left-hand		Right-hand	
	/ (IVINZ)			Touch	Tilt	Touch	Tilt
	1013 / 824.70 CDMA 800 384 / 836.52	26.0	extended	0.87	-	0.69	-
			retracted	0.56	-	0.52	-
CDMA		26.0	extended	0.85	0.87	0.64	-
800			retracted	0.68	-	0.61	-
	777 / 848.31	25.1	extended	0.95	0.97	0.64	-
	7777 040.31		retracted	0.89	0.78	0.74	-



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8.2 Body Worn Configuration

Body SAR measurements were performed on the tested device in AMPS mode for all frequencies and body positions, ie. with the LPS-4 loopset and then the HDC-5 headset connected. SAR measurements were then re-performed on the tested device in CDMA 800 mode for those frequencies and body positions that had a SAR value of 0.80mW/g or higher when measured in AMPS.

8.2.1 Regular Cover

	Channel/	Power		SAR, averaged	over 1g (mW/g)
Mode	f (MHz)	(dBm)	Antenna	LPS-4	HDC-5
	991 / 824.04	26.0	extended	0.55	0.61
		20.0	retracted	0.63	1.10
AMDS	AMPS 384 / 836.52	26.0	extended	0.65	0.70
Aivii 3			retracted	0.67	0.90
	799 / 848.97	25.1	extended	0.57	0.55
			retracted	0.62	0.69

	Channel/	Power		SAR, averaged	over 1g (mW/g)
Mode	f (MHz)	(dBm)	Antenna	LPS-4	HDC-5
	1013 / 824.70	1013 / 824.70 26.0	extended	-	-
			retracted	=	0.60
CDMA	384 / 836.52	26.0	extended	=	=
800	800 384 / 836.52		retracted	=	0.61
	777 / 848.31	25.1	extended	=	=
	1111 040.31		retracted	-	0.64



FCC ID: GMLNPD-1GW Test Report #: 02-RF-0066.001



Accredited Laboratory Certificate Number: 1819-01

8.2.2 Active Cover

	Channel/	Power		SAR, averaged	over 1g (mW/g)
Mode	f (MHz)	(dBm)	Antenna	LPS-4	HDC-5
	991 / 824.04	26.0	extended	0.53	0.66
		20.0	retracted	0.66	1.02
AMADS	AMPS 384 / 836.52	26.0	extended	0.67	0.68
AIVII 3			retracted	0.77	0.87
	799 / 848.97	25.1	extended	0.58	0.58
			retracted	0.65	0.73

	Channel/	Power		SAR, averaged	over 1g (mW/g)
Mode	f (MHz)	(dBm)	Antenna	LPS-4	HDC-5
	1013 / 824.70	26.0	extended	-	-
			retracted	-	0.61
CDMA	384 / 836.52	26.0	extended	=	-
800	384 / 836.52		retracted	=	0.59
	777 / 848.31	25.1	extended	=	-
	1111 848.31		retracted	=	0.70



FCC ID: GMLNPD-1GW
Test Report #: 02-RF-0066.001



Accredited Laboratory Certificate Number: 1819-01

APPENDIX A: SCOPE OF ACCREDITATION FOR A2LA

TCC-Dallas is accredited by the American Association for Laboratory Accreditation (A2LA) as shown in the scope below:





"This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined to be in accordance with the laboratory's terms of accreditation unless stated otherwise in the report."

Should this report contain any data for tests for which we are not accredited, such data would not be covered by this laboratory's A2LA accreditation.

APPENDIX B: VALIDATION TEST PRINTOUTS

SAM 1 (Cellular - Brain Tissue) Frequency: 835 MHz; Crest factor: 1.0

Validation 835MHz - Brain Tissue: $\sigma = 0.90$ mho/m $\epsilon_r = 39.9$ $\rho = 1.00$ g/cm³

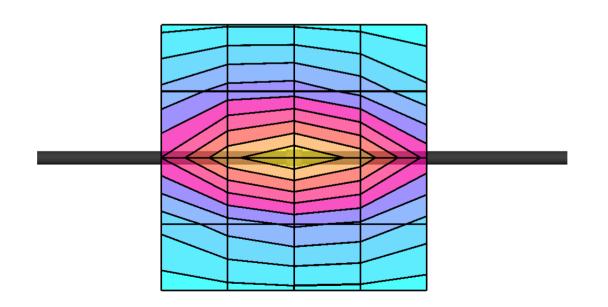
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

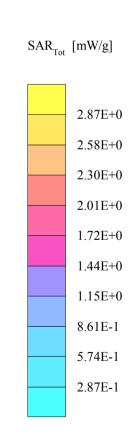
Cubes (2): Peak: 4.27 $\text{ mW/g} \pm 0.03 \text{ dB}$, SAR (1g): 2.70 $\text{ mW/g} \pm 0.02 \text{ dB}$, SAR (10g): 1.73 $\text{ mW/g} \pm 0.02 \text{ dB}$, (Worst-case extrapolation)

Penetration depth: 12.0 (10.8, 13.7) [mm]

Powerdrift: -0.01 dB

Liquid Temperature: 20.8°C





SAM 1 (Cellular - Brain Tissue) Frequency: 835 MHz; Crest factor: 1.0

Validation 835MHz - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.6$ $\rho = 1.00$ g/cm³

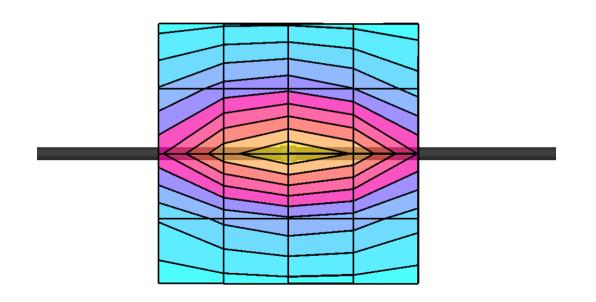
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

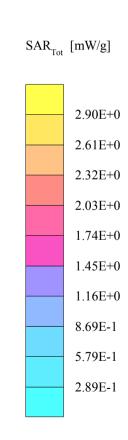
Cubes (2): Peak: 4.40 $\text{ mW/g} \pm 0.02 \text{ dB}$, SAR (1g): 2.74 $\text{ mW/g} \pm 0.00 \text{ dB}$, SAR (10g): 1.73 $\text{ mW/g} \pm 0.01 \text{ dB}$, (Worst-case extrapolation)

Penetration depth: 11.7 (10.5, 13.3) [mm]

Powerdrift: -0.06 dB

Liquid Temperature: 23.5°C





SAM 1 (Cellular - Brain Tissue) Frequency: 835 MHz; Crest factor: 1.0

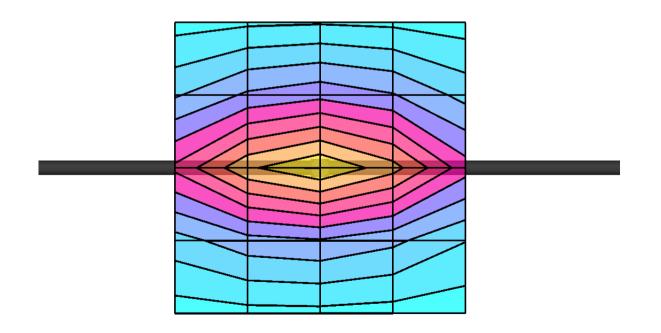
Validation 835MHz - Brain Tissue: $\sigma = 0.94$ mho/m $\epsilon_r = 42.0$ $\rho = 1.00$ g/cm³

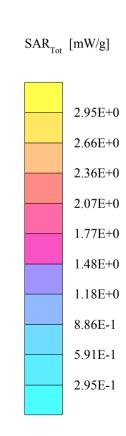
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cubes (2): Peak: 4.41 $\text{mW/g} \pm 0.00 \text{ dB}$, SAR (1g): 2.77 $\text{mW/g} \pm 0.01 \text{ dB}$, SAR (10g): 1.76 $\text{mW/g} \pm 0.01 \text{ dB}$, (Worst-case extrapolation)

Penetration depth: 11.8 (10.6, 13.3) [mm]

Powerdrift: -0.04 dB Liquid Temperature: 21.6°C





SAM 1 (Cellular - Brain Tissue) Frequency: 835 MHz; Crest factor: 1.0

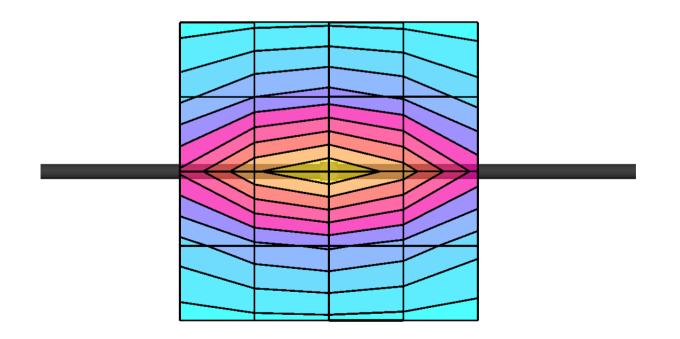
Validation 835MHz - Brain Tissue: $\sigma = 0.93$ mho/m $\epsilon_r = 41.9$ $\rho = 1.00$ g/cm³

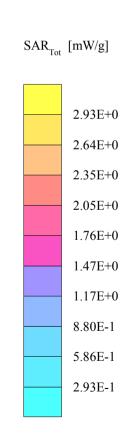
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cubes (2): Peak: 4.39 $\text{mW/g} \pm 0.00 \text{ dB}$, SAR (1g): 2.76 $\text{mW/g} \pm 0.01 \text{ dB}$, SAR (10g): 1.75 $\text{mW/g} \pm 0.01 \text{ dB}$, (Worst-case extrapolation)

Penetration depth: 11.8 (10.6, 13.3) [mm]

Powerdrift: -0.04 dB Liquid Temperature: 21.6°C





SAM 1 (Cellular - Brain Tissue) Frequency: 835 MHz; Crest factor: 1.0

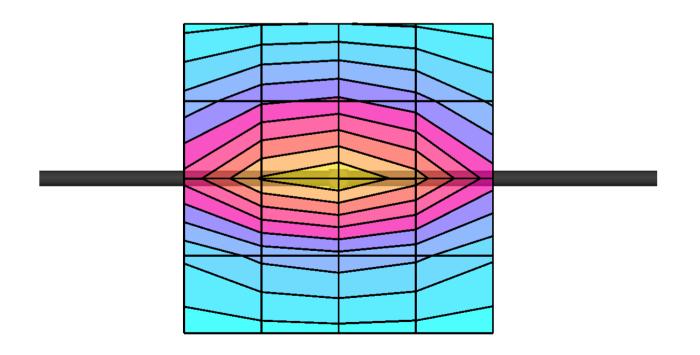
Validation 835MHz - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.1$ $\rho = 1.00$ g/cm³

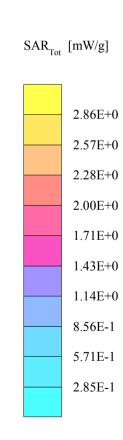
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cubes (2): Peak: 4.38 $\text{mW/g} \pm 0.03 \text{ dB}$, SAR (1g): 2.74 $\text{mW/g} \pm 0.02 \text{ dB}$, SAR (10g): 1.74 $\text{mW/g} \pm 0.01 \text{ dB}$, (Worst-case extrapolation)

Penetration depth: 11.7 (10.6, 13.3) [mm]

Powerdrift: -0.01 dB Liquid Temperature: 21.7°C





SAM 1 (Cellular - Brain Tissue) Frequency: 835 MHz; Crest factor: 1.0

Validation 835MHz - Brain Tissue: $\sigma = 0.93$ mho/m $\epsilon_r = 41.3$ $\rho = 1.00$ g/cm³

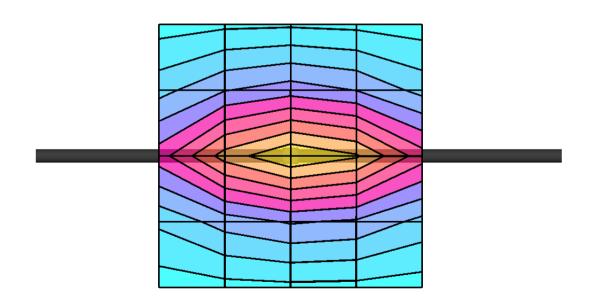
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

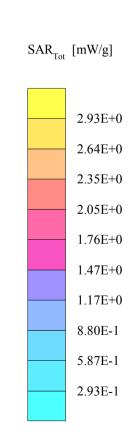
Cubes (2): Peak: 4.44 $\text{mW/g} \pm 0.03 \text{ dB}$, SAR (1g): 2.77 $\text{mW/g} \pm 0.03 \text{ dB}$, SAR (10g): 1.76 $\text{mW/g} \pm 0.02 \text{ dB}$, (Worst-case extrapolation)

Penetration depth: 11.7 (10.5, 13.3) [mm]

Powerdrift: -0.01 dB

Liquid Temperature: 21.6°C





SAM 1 (Cellular - Brain Tissue) Frequency: 835 MHz; Crest factor: 1.0

Validation 835MHz - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.2$ $\rho = 1.00$ g/cm³

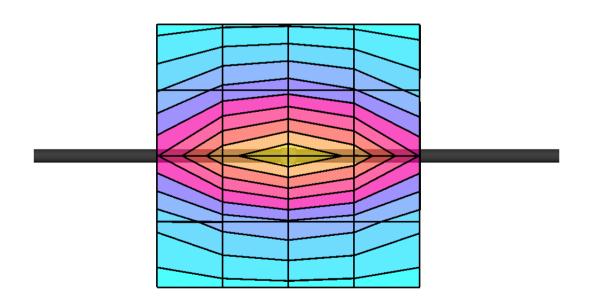
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

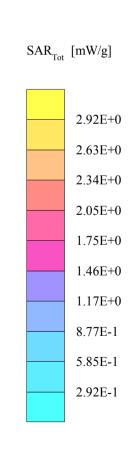
Cubes (2): Peak: 4.40 $\text{ mW/g} \pm 0.03 \text{ dB}$, SAR (1g): 2.75 $\text{ mW/g} \pm 0.02 \text{ dB}$, SAR (10g): 1.74 $\text{ mW/g} \pm 0.01 \text{ dB}$, (Worst-case extrapolation)

Penetration depth: 11.7 (10.5, 13.3) [mm]

Powerdrift: -0.02 dB

Liquid Temperature: 21.3°C





SAM 1 (Cellular - Brain Tissue) Frequency: 835 MHz; Crest factor: 1.0

Validation 835MHz - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.3$ $\rho = 1.00$ g/cm³

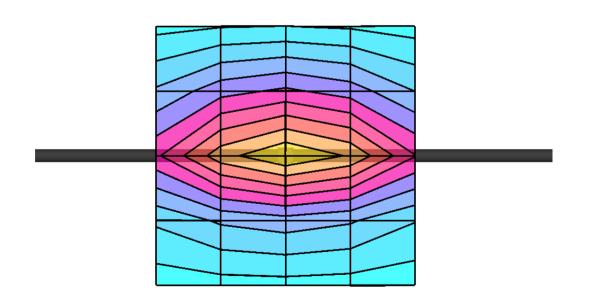
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

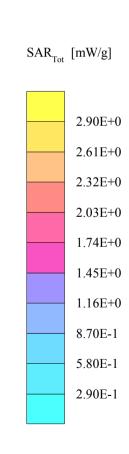
Cubes (2): Peak: 4.43 $\text{mW/g} \pm 0.01 \text{ dB}$, SAR (1g): 2.77 $\text{mW/g} \pm 0.00 \text{ dB}$, SAR (10g): 1.76 $\text{mW/g} \pm 0.01 \text{ dB}$, (Worst-case extrapolation)

Penetration depth: 11.7 (10.5, 13.3) [mm]

Powerdrift: -0.01 dB

Liquid Temperature: 21.6°C





SAM 2 (Cellular - Muscle Tissue) Frequency: 835 MHz; Crest factor: 1.0

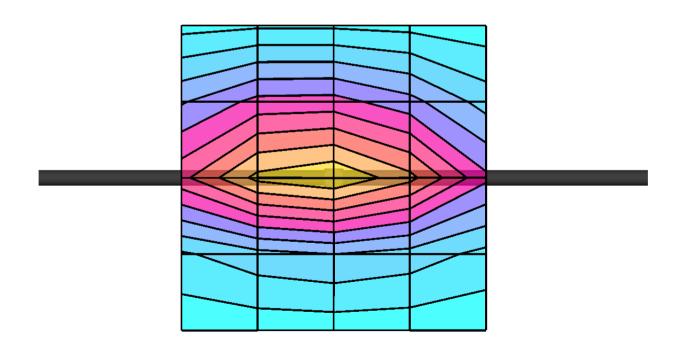
Validation 835MHz - Muscle Tissue: $\sigma = 0.94$ mho/m $\varepsilon_r = 57.2$ $\rho = 1.00$ g/cm³

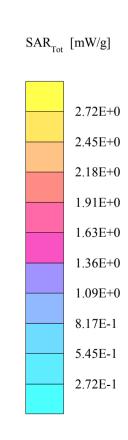
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cubes (2): Peak: 4.17 $\text{ mW/g} \pm 0.00 \text{ dB}$, SAR (1g): 2.68 $\text{ mW/g} \pm 0.00 \text{ dB}$, SAR (10g): 1.74 $\text{ mW/g} \pm 0.00 \text{ dB}$, (Worst-case extrapolation)

Penetration depth: 12.9 (11.5, 14.8) [mm]

Powerdrift: -0.02 dB Liquid Temperature: 21.2°C





SAM 2 (Cellular - Muscle Tissue) Frequency: 835 MHz; Crest factor: 1.0

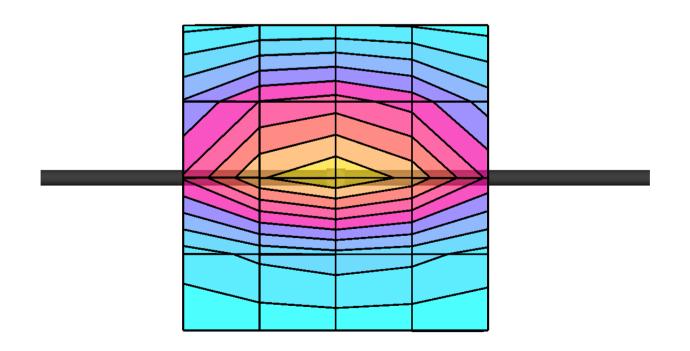
Validation 835MHz - Muscle Tissue: $\sigma = 0.94$ mho/m $\varepsilon_r = 57.1$ $\rho = 1.00$ g/cm³

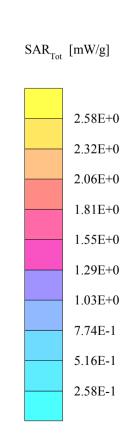
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cubes (2): Peak: 4.11 $\text{mW/g} \pm 0.01 \text{ dB}$, SAR (1g): 2.64 $\text{mW/g} \pm 0.00 \text{ dB}$, SAR (10g): 1.72 $\text{mW/g} \pm 0.01 \text{ dB}$, (Worst-case extrapolation)

Penetration depth: 12.8 (11.4, 14.6) [mm]

Powerdrift: -0.03 dB Liquid Temperature: 21.7°C





SAM 2 (Cellular - Muscle Tissue) Frequency: 835 MHz; Crest factor: 1.0

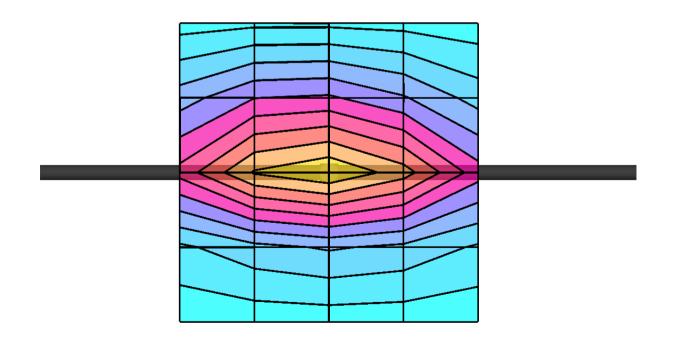
Validation 835MHz - Muscle Tissue: σ = 0.96 mho/m ϵ_r = 57.3 ρ = 1.00 g/cm³

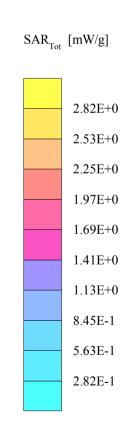
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cubes (2): Peak: $4.27 \text{ mW/g} \pm 0.03 \text{ dB}$, SAR (1g): $2.74 \text{ mW/g} \pm 0.02 \text{ dB}$, SAR (10g): $1.78 \text{ mW/g} \pm 0.01 \text{ dB}$, (Worst-case extrapolation)

Penetration depth: 12.8 (11.3, 14.7) [mm]

Powerdrift: -0.00 dB Liquid Temperature: 21.7°C





SAM 2 (Cellular - Muscle Tissue) Frequency: 835 MHz; Crest factor: 1.0

Validation 835MHz - Muscle Tissue: σ = 0.95 mho/m ϵ_r = 57.0 ρ = 1.00 g/cm³

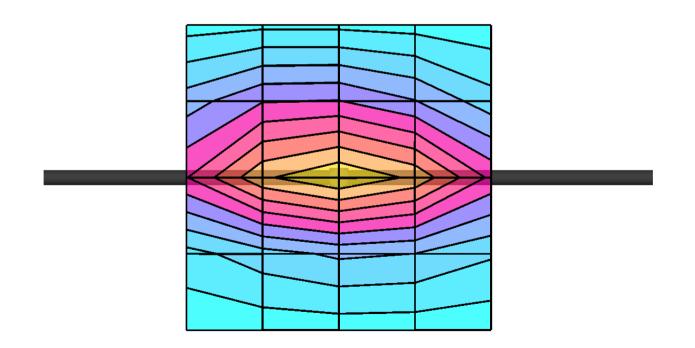
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

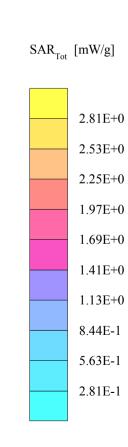
Cubes (2): Peak: 4.23 $\text{mW/g} \pm 0.02 \text{ dB}$, SAR (1g): 2.72 $\text{mW/g} \pm 0.01 \text{ dB}$, SAR (10g): 1.77 $\text{mW/g} \pm 0.01 \text{ dB}$, (Worst-case extrapolation)

Penetration depth: 12.8 (11.3, 14.7) [mm]

Powerdrift: -0.00 dB

Liquid Temperature: 21.8°C





APPENDIX C: SAR DISTRIBUTION PRINTOUTS

GMLNPD-1GW, AMPS, Channel 991, Regular Cover, Antenna Extended, Left Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 824 MHz; Crest factor: 1.0

Cellular Band - Brain Tissue: $\sigma = 0.93$ mho/m $\epsilon_r = 41.9$ $\rho = 1.00$ g/cm³

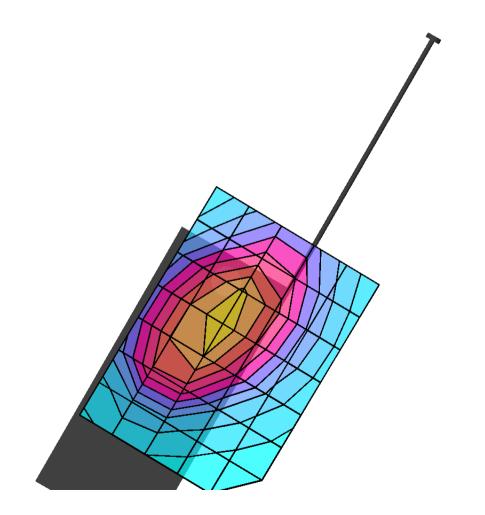
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

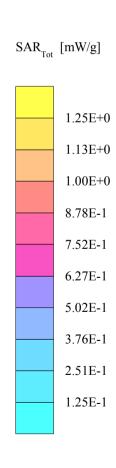
Cube 5x5x7: SAR (1g): 1.20 mW/g, SAR (10g): 0.816 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.11 dB

Liquid Temperature: 21.6°C





GMLNPD-1GW, AMPS, Channel 799, Regular Cover, Antenna Retracted, Left Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 849 MHz; Crest factor: 1.0

Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.6$ $\rho = 1.00$ g/cm³

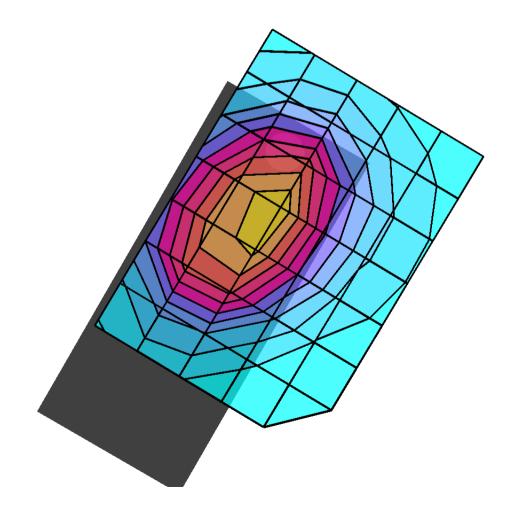
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

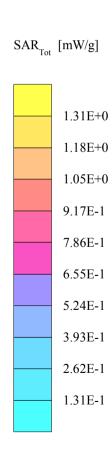
Cube 5x5x7: SAR (1g): 1.25 mW/g, SAR (10g): 0.852 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.23 dB

Liquid Temperature: 23.5°C





GMLNPD-1GW, AMPS, Channel 384, Regular Cover, Antenna Extended, Left Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 837 MHz; Crest factor: 1.0

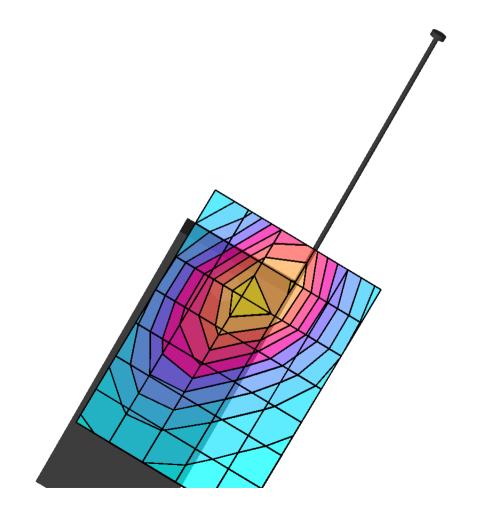
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.1$ $\rho = 1.00$ g/cm³

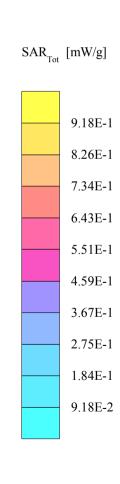
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.919 mW/g, SAR (10g): 0.583 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.06 dB Liquid Temperature: 21.7°C





GMLNPD-1GW, AMPS, Channel 384, Regular Cover, Antenna Retracted, Left Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 837 MHz; Crest factor: 1.0

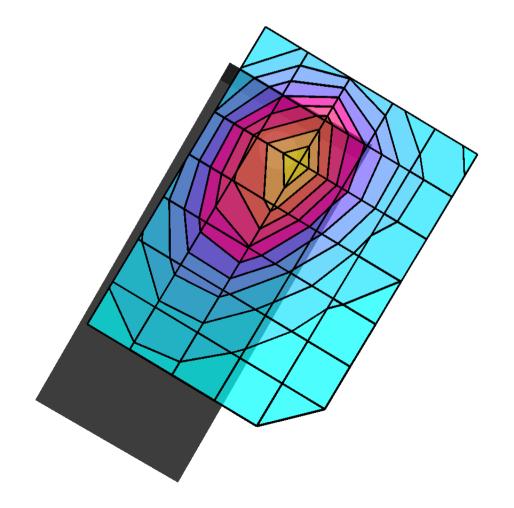
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.1$ $\rho = 1.00$ g/cm³

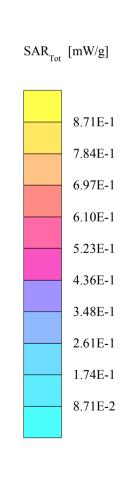
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.813 mW/g, SAR (10g): 0.519 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.07 dB Liquid Temperature: 21.7°C





GMLNPD-1GW, AMPS, Channel 991, Regular Cover, Antenna Extended, Right Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 824 MHz; Crest factor: 1.0

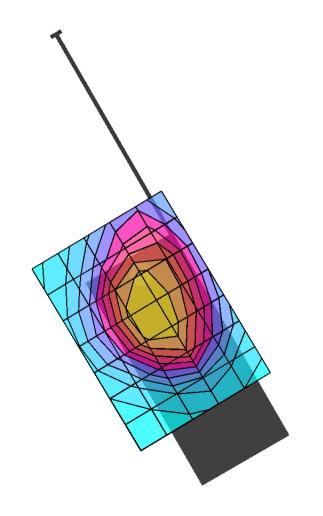
Cellular Band - Brain Tissue: $\sigma = 0.94$ mho/m $\epsilon_r = 42.0$ $\rho = 1.00$ g/cm³

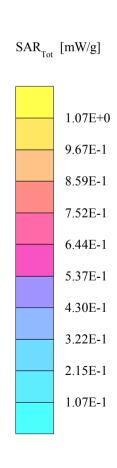
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 1.06 mW/g, SAR (10g): 0.754 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.04 dB





GMLNPD-1GW, AMPS, Channel 384, Regular Cover, Antenna Retracted, Right Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 837 MHz; Crest factor: 1.0

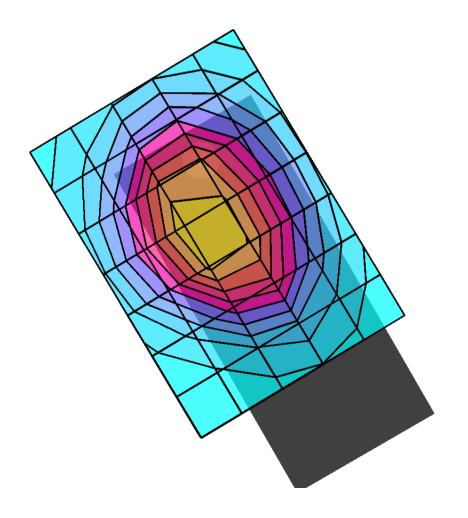
Cellular Band - Brain Tissue: $\sigma = 0.94$ mho/m $\epsilon_r = 42.0$ $\rho = 1.00$ g/cm³

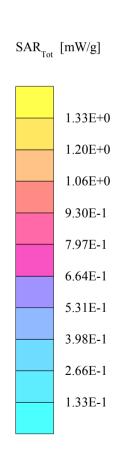
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 1.27 mW/g, SAR (10g): 0.900 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.10 dB





GMLNPD-1GW, AMPS, Channel 991, Regular Cover, Antenna Extended, Right Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 824 MHz; Crest factor: 1.0

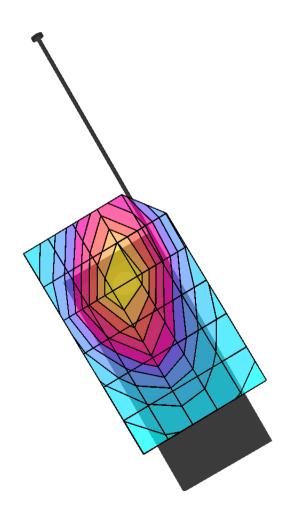
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.1$ $\rho = 1.00$ g/cm³

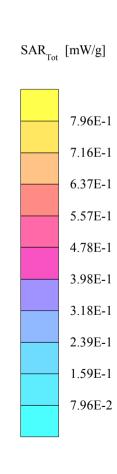
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.799 mW/g, SAR (10g): 0.527 mW/g, (Worst-case extrapolation)

Coarse: Dx = 19.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.05 dB Liquid Temperature: 21.7°C





GMLNPD-1GW, AMPS, Channel 799, Regular Cover, Antenna Retracted, Right Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 849 MHz; Crest factor: 1.0

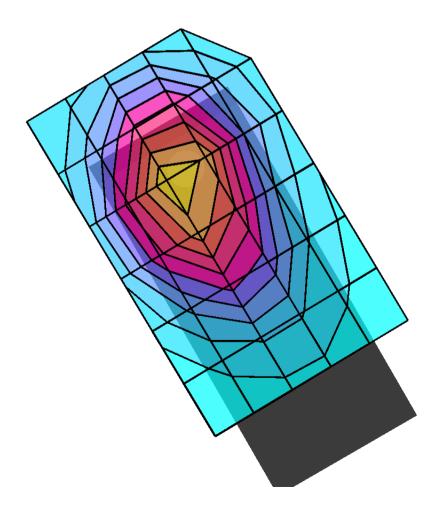
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.1$ $\rho = 1.00$ g/cm³

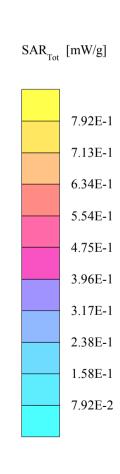
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.758 mW/g, SAR (10g): 0.500 mW/g, (Worst-case extrapolation)

Coarse: Dx = 19.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.31 dB Liquid Temperature: 21.7°C





GMLNPD-1GW, AMPS, Channel 384, Regular Cover, Antenna Extended, 20mm Spacer on Back of Phone + LPS-4 Loopset.

SAM 2 (Cellular - Muscle Tissue) Phantom Frequency: 837 MHz; Crest factor: 1.0

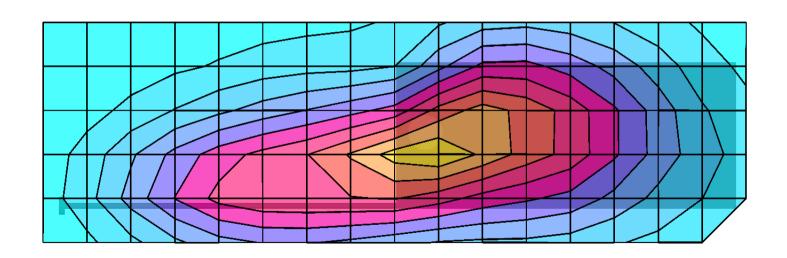
Cellular Band - Muscle Tissue: $\sigma = 0.96$ mho/m $\epsilon_r = 57.6$ $\rho = 1.00$ g/cm³

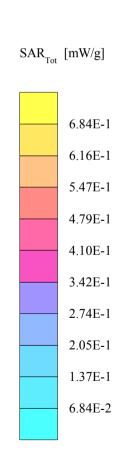
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cube 5x5x7: SAR (1g): 0.650 mW/g, SAR (10g): 0.452 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 12.0

Powerdrift: -0.05 dB Liquid Temperature: 21.7°C





GMLNPD-1GW, AMPS, Channel 384, Regular Cover, Antenna Retracted, 20mm Spacer on Back of Phone + LPS-4 Loopset.

SAM 2 (Cellular - Muscle Tissue) Phantom Frequency: 837 MHz; Crest factor: 1.0

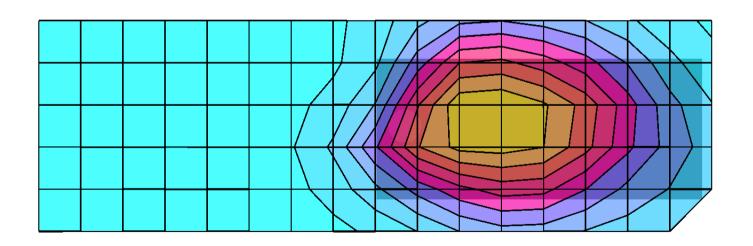
Cellular Band - Muscle Tissue: σ = 0.96 mho/m ϵ_r = 57.6 ρ = 1.00 g/cm³

Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cube 5x5x7: SAR (1g): 0.674 mW/g, SAR (10g): 0.487 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 12.0

Powerdrift: -0.02 dB Liquid Temperature: 21.7°C





GMLNPD-1GW, AMPS, Channel 384, Regular Cover, Antenna Extended, 20mm Spacer on Back of Phone + HDC-5 Headset.

SAM 2 (Cellular - Muscle Tissue) Phantom Frequency: 837 MHz; Crest factor: 1.0

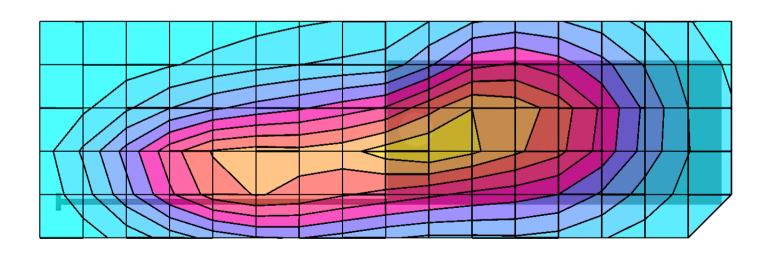
Cellular Band - Muscle Tissue: σ = 0.96 mho/m ϵ_r = 57.6 ρ = 1.00 g/cm³

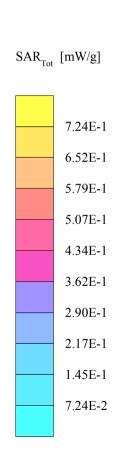
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cube 5x5x7: SAR (1g): 0.697 mW/g, SAR (10g): 0.491 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 12.0

Powerdrift: -0.02 dB Liquid Temperature: 21.7°C





GMLNPD-1GW, AMPS, Channel 991, Regular Cover, Antenna Retracted, 20mm Spacer on Back of Phone + HDC-5 Headset.

SAM 2 (Cellular - Muscle Tissue) Phantom Frequency: 824 MHz; Crest factor: 1.0

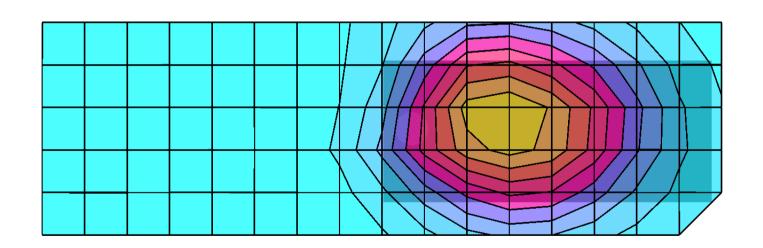
Cellular Band - Muscle Tissue: σ = 0.96 mho/m ϵ_r = 57.6 ρ = 1.00 g/cm³

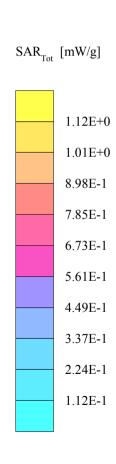
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cube 5x5x7: SAR (1g): 1.10 mW/g, SAR (10g): 0.799 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 12.0

Powerdrift: -0.01 dB Liquid Temperature: 21.7°C





GMLNPD-1GW, CDMA 800, Channel 777, Regular Cover, Antenna Extended, Left Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

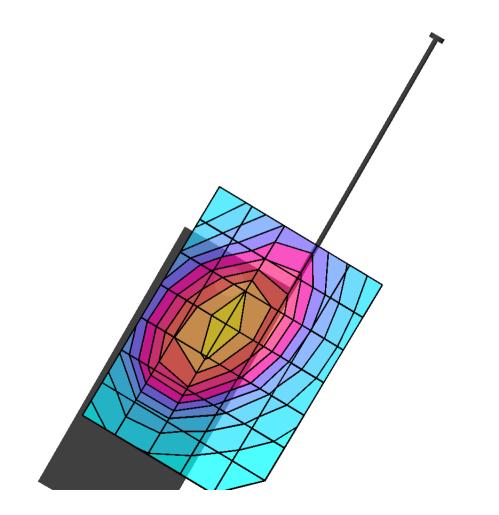
Cellular Band - Brain Tissue: $\sigma = 0.93$ mho/m $\epsilon_r = 41.3$ $\rho = 1.00$ g/cm³

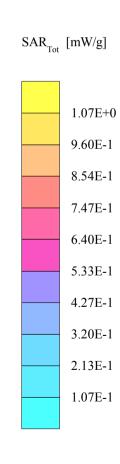
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 1.01 mW/g, SAR (10g): 0.690 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.11 dB





GMLNPD-1GW, CDMA 800, Channel 777, Regular Cover, Antenna Retracted, Left Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

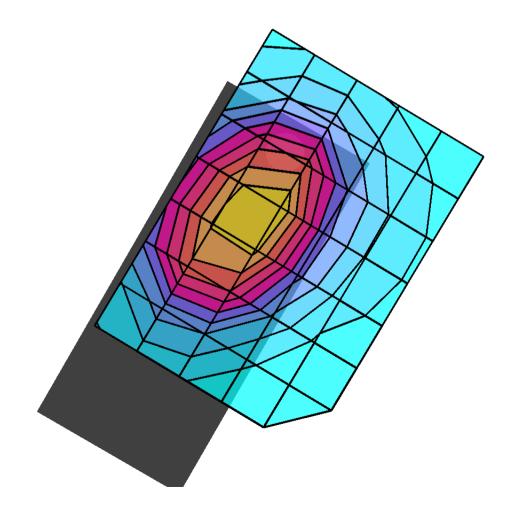
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.6$ $\rho = 1.00$ g/cm³

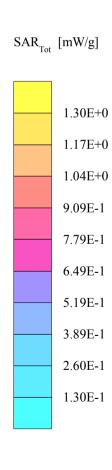
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 1.26 mW/g, SAR (10g): 0.865 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.07 dB





GMLNPD-1GW, CDMA 800, Channel 777, Regular Cover, Antenna Extended, Left Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

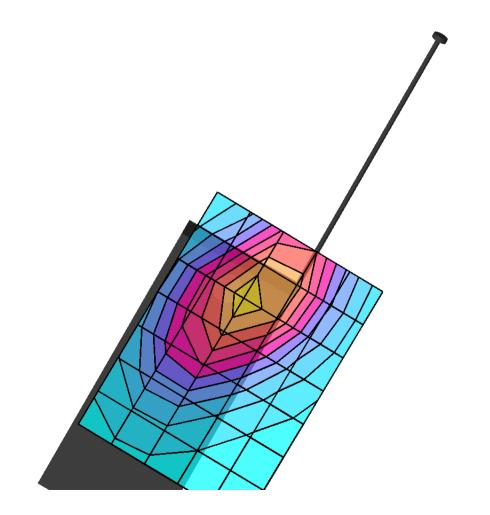
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\varepsilon_r = 41.2$ $\rho = 1.00$ g/cm³

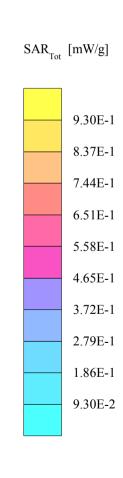
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.901 mW/g, SAR (10g): 0.573 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.08 dB





GMLNPD-1GW, CDMA 800, Channel 777, Regular Cover, Antenna Retracted, Left Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

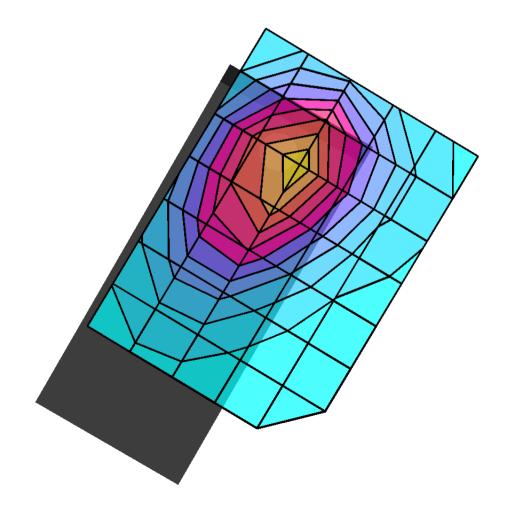
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.2$ $\rho = 1.00$ g/cm³

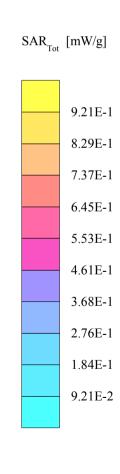
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.850 mW/g, SAR (10g): 0.546 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.21 dB





GMLNPD-1GW, CDMA 800, Channel 777, Regular Cover, Antenna Extended, Right Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

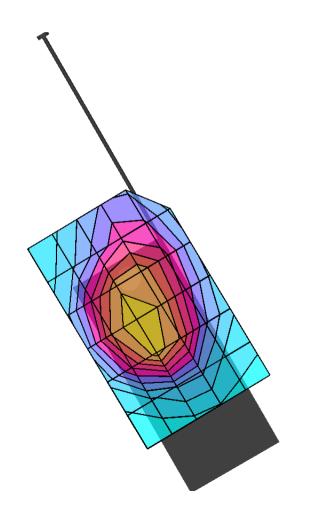
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.1$ $\rho = 1.00$ g/cm³

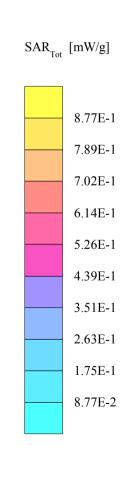
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cubes (2): SAR (1g): $0.851 \text{ mW/g} \pm 0.01 \text{ dB}$, SAR (10g): $0.603 \text{ mW/g} \pm 0.00 \text{ dB}$, (Worst-case extrapolation)

Coarse: Dx = 19.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.09 dB Liquid Temperature: 21.7°C





GMLNPD-1GW, CDMA 800, Channel 777, Regular Cover, Antenna Retracted, Right Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

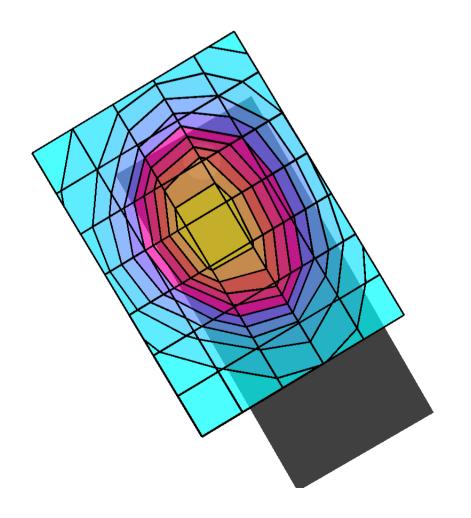
Cellular Band - Brain Tissue: $\sigma = 0.94$ mho/m $\epsilon_r = 42.0$ $\rho = 1.00$ g/cm³

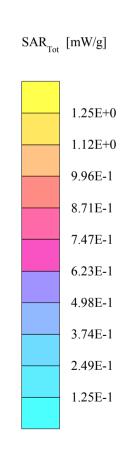
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 1.21 mW/g, SAR (10g): 0.850 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.07 dB





GMLNPD-1GW, CDMA 800, Channel 777, Regular Cover, Antenna Extended, Right Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

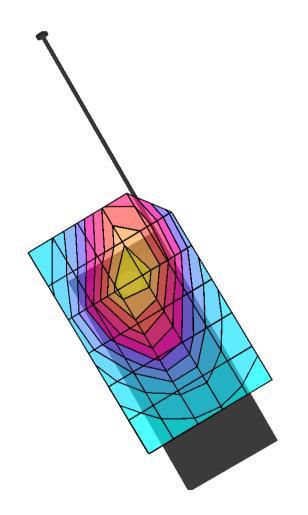
Cellular Band - Brain Tissue: $\sigma = 0.93$ mho/m $\epsilon_r = 41.3$ $\rho = 1.00$ g/cm³

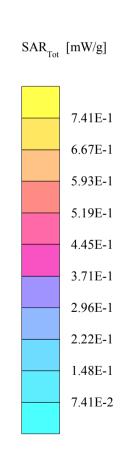
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.729 mW/g, SAR (10g): 0.474 mW/g, (Worst-case extrapolation)

Coarse: Dx = 19.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.12 dB Liquid Temperature: 21.6°C





GMLNPD-1GW, CDMA 800, Channel 777, Regular Cover, Antenna Retracted, Right Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

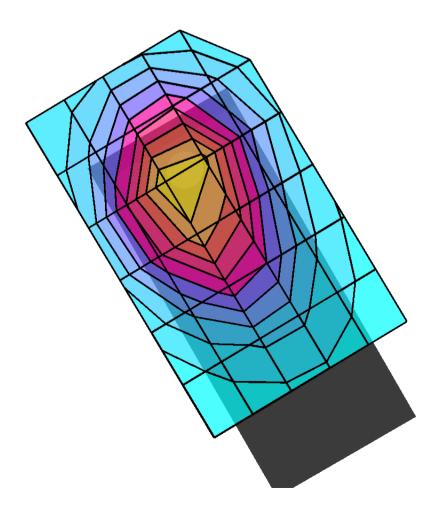
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.1$ $\rho = 1.00$ g/cm³

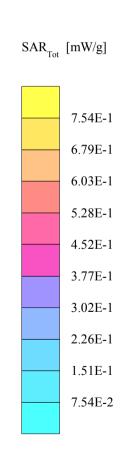
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.738 mW/g, SAR (10g): 0.487 mW/g, (Worst-case extrapolation)

Coarse: Dx = 19.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.19 dB Liquid Temperature: 21.7°C





GMLNPD-1GW, CDMA 800, Channel 777, Regular Cover, Antenna Retracted, 20mm Spacer on Back of Phone + HDC-5 Headset.

SAM 2 (Cellular - Muscle Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

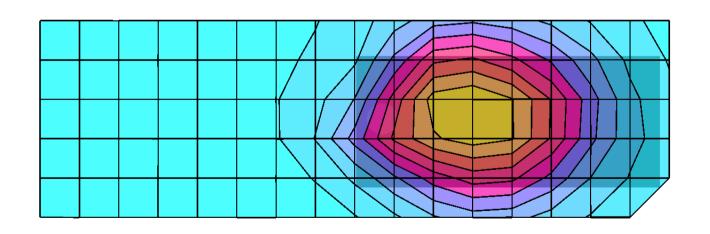
Cellular Band - Muscle Tissue: $\sigma = 0.95$ mho/m $\varepsilon_r = 57.0$ $\rho = 1.00$ g/cm³

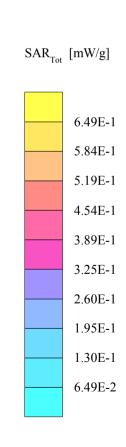
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cube 5x5x7: SAR (1g): 0.642 mW/g, SAR (10g): 0.463 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 12.0

Powerdrift: 0.01 dB





GMLNPD-1GW, AMPS, Channel 991, Active Cover, Antenna Extended, Left Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 824 MHz; Crest factor: 1.0

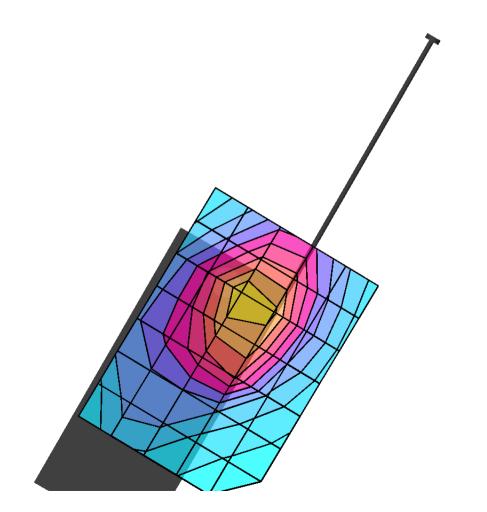
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\varepsilon_r = 41.2$ $\rho = 1.00$ g/cm³

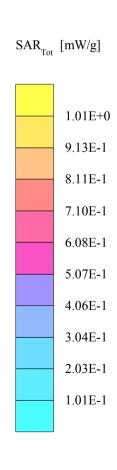
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 1.02 mW/g, SAR (10g): 0.640 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.05 dB





GMLNPD-1GW, AMPS, Channel 799, Active Cover, Antenna Retracted, Left Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 849 MHz; Crest factor: 1.0

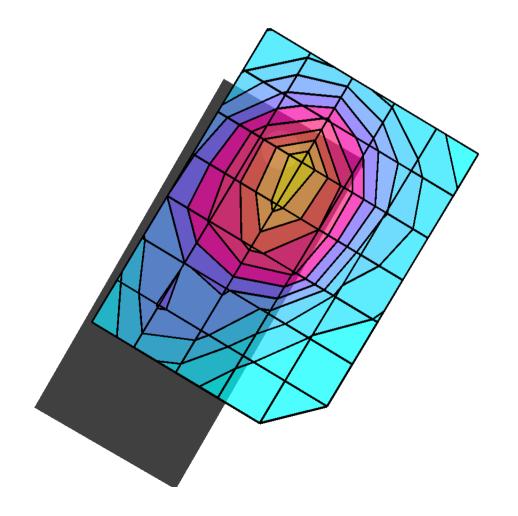
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\varepsilon_r = 41.2$ $\rho = 1.00$ g/cm³

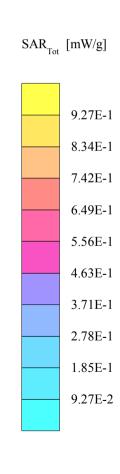
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.872 mW/g, SAR (10g): 0.567 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.06 dB





GMLNPD-1GW, AMPS, Channel 384, Active Cover, Antenna Extended, Left Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 837 MHz; Crest factor: 1.0

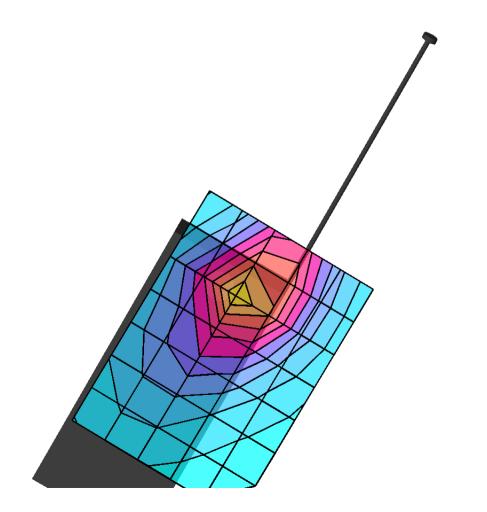
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.3$ $\rho = 1.00$ g/cm³

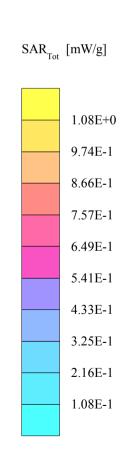
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 1.07 mW/g, SAR (10g): 0.635 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.02 dB





GMLNPD-1GW, AMPS, Channel 799, Active Cover, Antenna Retracted, Left Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 849 MHz; Crest factor: 1.0

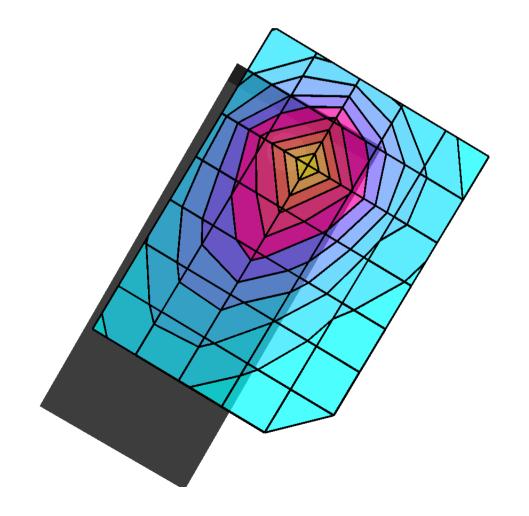
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\varepsilon_r = 41.2$ $\rho = 1.00$ g/cm³

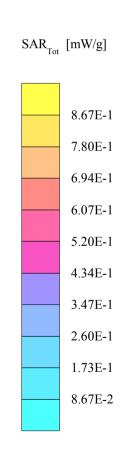
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.794 mW/g, SAR (10g): 0.466 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.14 dB





GMLNPD-1GW, AMPS, Channel 991, Active Cover, Antenna Extended, Right Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 824 MHz; Crest factor: 1.0

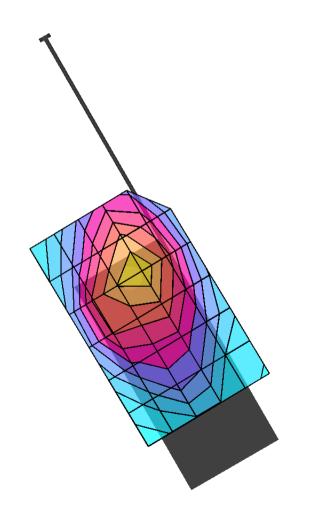
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.3$ $\rho = 1.00$ g/cm³

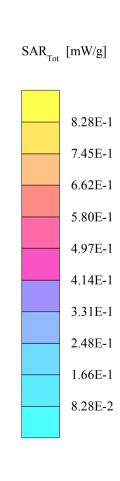
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.819 mW/g, SAR (10g): 0.537 mW/g, (Worst-case extrapolation)

Coarse: Dx = 19.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.01 dB





GMLNPD-1GW, AMPS, Channel 384, Active Cover, Antenna Retracted, Right Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 837 MHz; Crest factor: 1.0

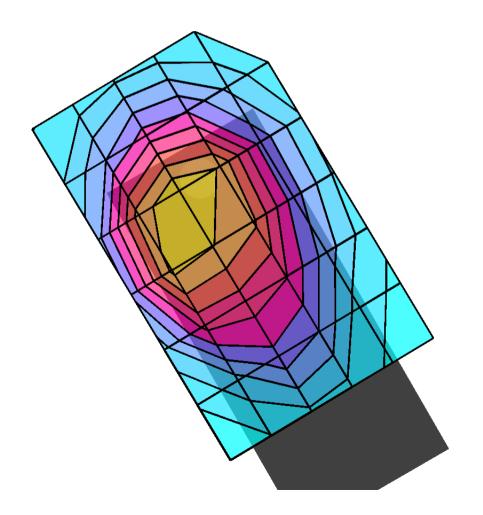
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.3$ $\rho = 1.00$ g/cm³

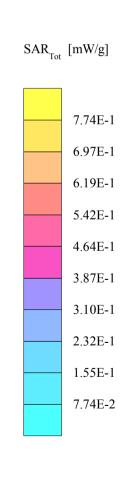
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.753 mW/g, SAR (10g): 0.520 mW/g, (Worst-case extrapolation)

Coarse: Dx = 19.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.03 dB





GMLNPD-1GW, AMPS, Channel 991, Active Cover, Antenna Extended, Right Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 824 MHz; Crest factor: 1.0

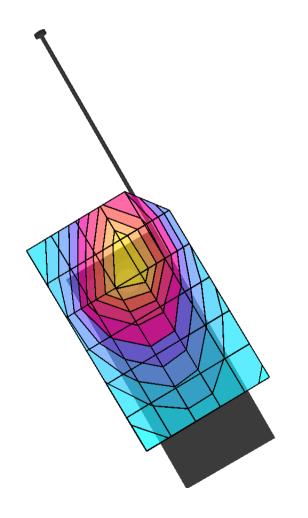
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\varepsilon_r = 41.3$ $\rho = 1.00$ g/cm³

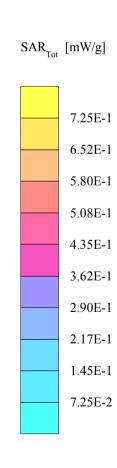
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.782 mW/g, SAR (10g): 0.489 mW/g, (Worst-case extrapolation)

Coarse: Dx = 19.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.14 dB





GMLNPD-1GW, AMPS, Channel 384, Active Cover, Antenna Extended, 20mm Spacer on Back of Phone + LPS-4 Loopset.

SAM 2 (Cellular - Muscle Tissue) Phantom Frequency: 837 MHz; Crest factor: 1.0

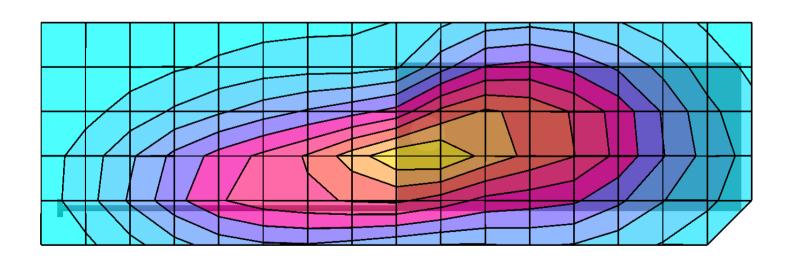
Cellular Band - Muscle Tissue: $\sigma = 0.95$ mho/m $\epsilon_r = 57.0$ $\rho = 1.00$ g/cm³

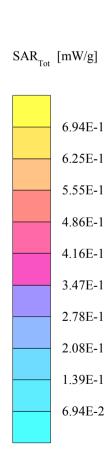
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cube 5x5x7: SAR (1g): 0.671 mW/g, SAR (10g): 0.463 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 12.0

Powerdrift: -0.01 dB





GMLNPD-1GW, AMPS, Channel 384, Active Cover, Antenna Retracted, 20mm Spacer on Back of Phone + LPS-4 Loopset.

SAM 2 (Cellular - Muscle Tissue) Phantom Frequency: 837 MHz; Crest factor: 1.0

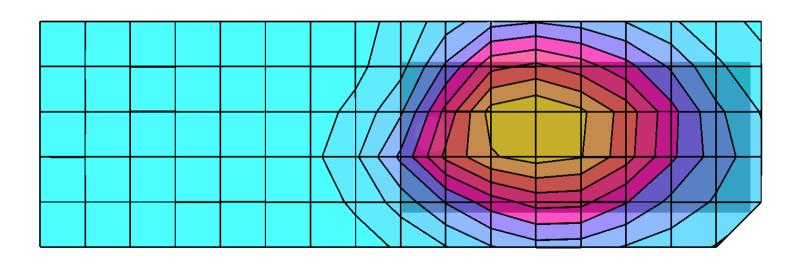
Cellular Band - Muscle Tissue: $\sigma = 0.96$ mho/m $\epsilon_r = 57.6$ $\rho = 1.00$ g/cm³

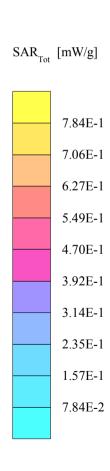
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cube 5x5x7: SAR (1g): 0.765 mW/g, SAR (10g): 0.555 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 12.0

Powerdrift: -0.01 dB Liquid Temperature: 21.7°C





GMLNPD-1GW, AMPS, Channel 384, Active Cover, Antenna Extended, 20mm Spacer on Back of Phone + HDC-5 Headset.

SAM 2 (Cellular - Muscle Tissue) Phantom Frequency: 837 MHz; Crest factor: 1.0

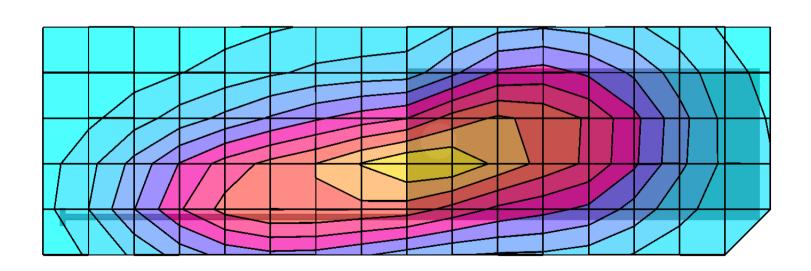
Cellular Band - Muscle Tissue: $\sigma = 0.95$ mho/m $\epsilon_r = 57.0$ $\rho = 1.00$ g/cm³

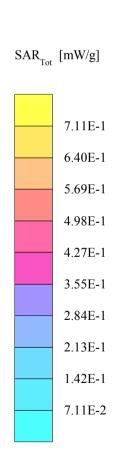
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cube 5x5x7: SAR (1g): 0.683 mW/g, SAR (10g): 0.481 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 12.0

Powerdrift: 0.02 dB





GMLNPD-1GW, AMPS, Channel 991, Active Cover, Antenna Retracted, 20mm Spacer on Back of Phone + HDC-5 Headset.

SAM 2 (Cellular - Muscle Tissue) Phantom Frequency: 824 MHz; Crest factor: 1.0

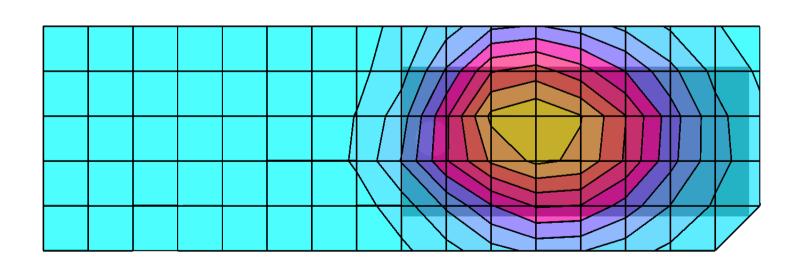
Cellular Band - Muscle Tissue: $\sigma = 0.96$ mho/m $\epsilon_r = 57.6$ $\rho = 1.00$ g/cm³

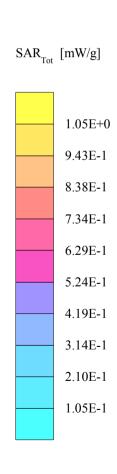
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cube 5x5x7: SAR (1g): 1.02 mW/g, SAR (10g): 0.739 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 12.0

Powerdrift: -0.01 dB Liquid Temperature: 21.7°C





GMLNPD-1GW, CDMA 800, Channel 777, Active Cover, Antenna Extended, Left Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

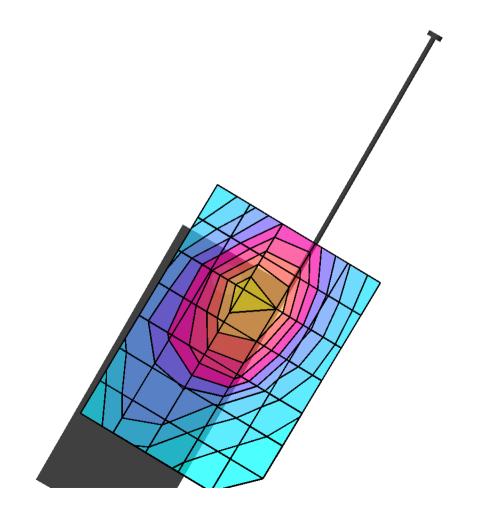
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\varepsilon_r = 41.2$ $\rho = 1.00$ g/cm³

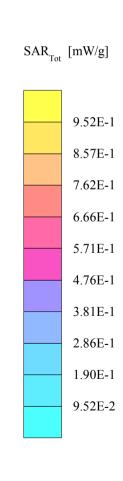
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.945 mW/g, SAR (10g): 0.591 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.03 dB





GMLNPD-1GW, CDMA 800, Channel 777, Active Cover, Antenna Retracted, Left Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

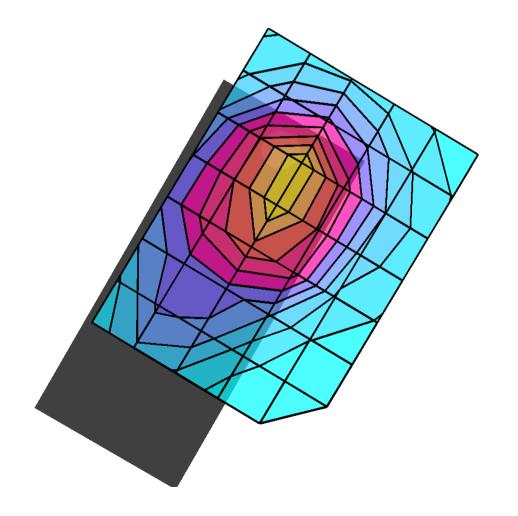
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.2$ $\rho = 1.00$ g/cm³

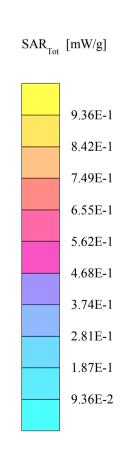
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cubes (2): SAR (1g): $0.892 \text{ mW/g} \pm 0.00 \text{ dB}$, SAR (10g): $0.574 \text{ mW/g} \pm 0.01 \text{ dB}$, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.06 dB





GMLNPD-1GW, CDMA 800, Channel 777, Active Cover, Antenna Extended, Left Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

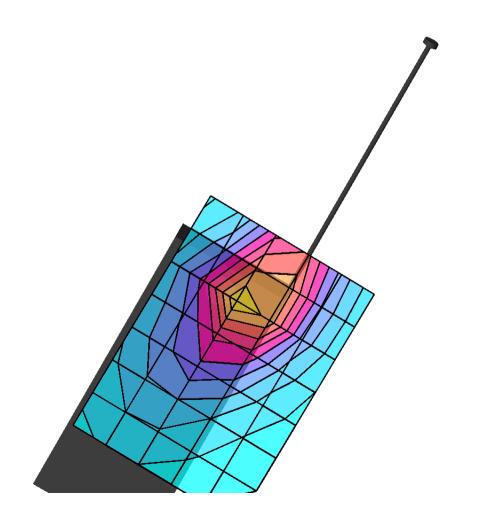
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.3$ $\rho = 1.00$ g/cm³

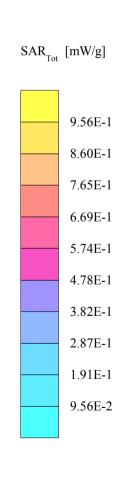
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.966 mW/g, SAR (10g): 0.578 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.05 dB





GMLNPD-1GW, CDMA 800, Channel 777, Active Cover, Antenna Retracted, Left Tilt Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

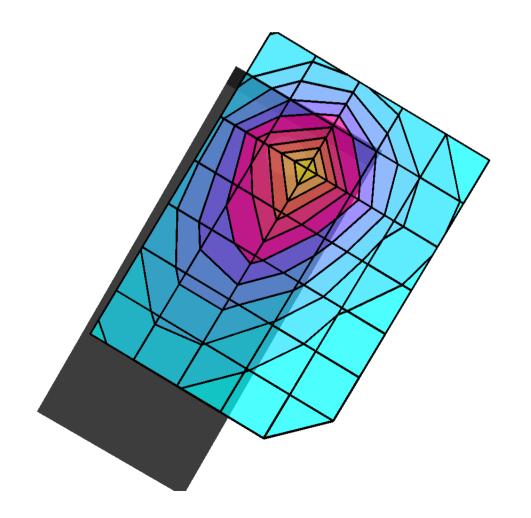
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.3$ $\rho = 1.00$ g/cm³

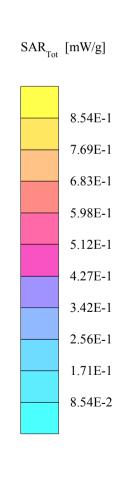
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.780 mW/g, SAR (10g): 0.455 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.01 dB





GMLNPD-1GW, CDMA 800, Channel 1013, Active Cover, Antenna Extended, Right Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 825 MHz; Crest factor: 1.0

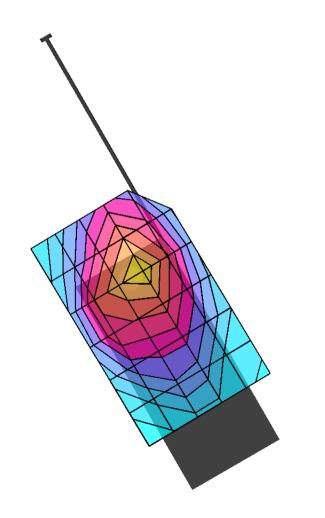
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.3$ $\rho = 1.00$ g/cm³

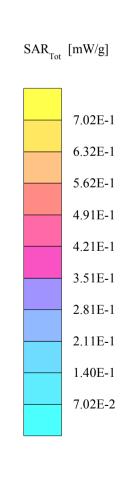
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.686 mW/g, SAR (10g): 0.445 mW/g, (Worst-case extrapolation)

Coarse: Dx = 19.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.02 dB





GMLNPD-1GW, CDMA 800, Channel 777, Active Cover, Antenna Retracted, Right Touch Position.

SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

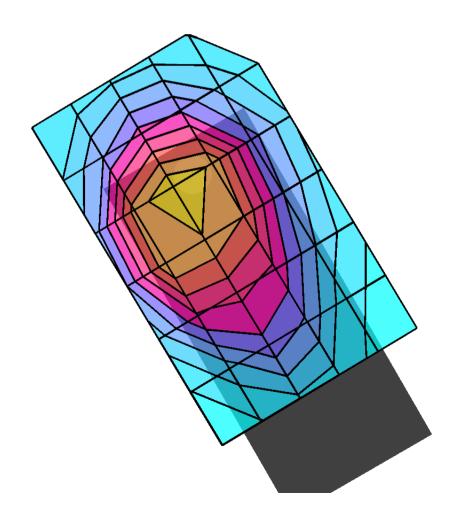
Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.3$ $\rho = 1.00$ g/cm³

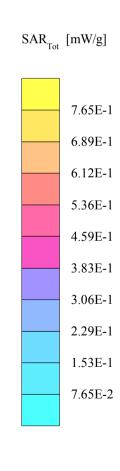
Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 0.739 mW/g, SAR (10g): 0.510 mW/g, (Worst-case extrapolation)

Coarse: Dx = 19.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.02 dB





GMLNPD-1GW, CDMA 800, Channel 777, Active Cover, Antenna Retracted, 20mm Spacer on Back of Phone + HDC-5 Headset.

SAM 2 (Cellular - Muscle Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

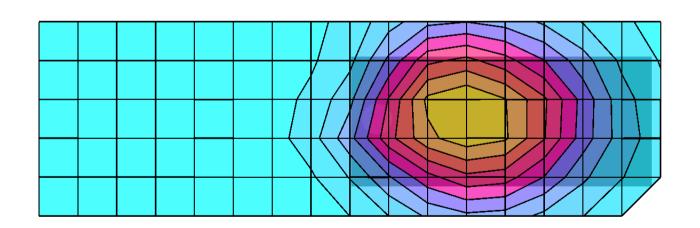
Cellular Band - Muscle Tissue: $\sigma = 0.95$ mho/m $\varepsilon_r = 57.0$ $\rho = 1.00$ g/cm³

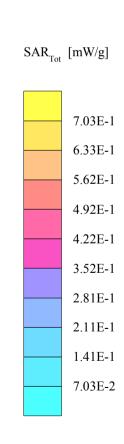
Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cube 5x5x7: SAR (1g): 0.695 mW/g, SAR (10g): 0.502 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 12.0

Powerdrift: 0.05 dB





GMLNPD-1GW, AMPS, Channel 384, Regular Cover, Antenna Retracted, Right Touch Position.

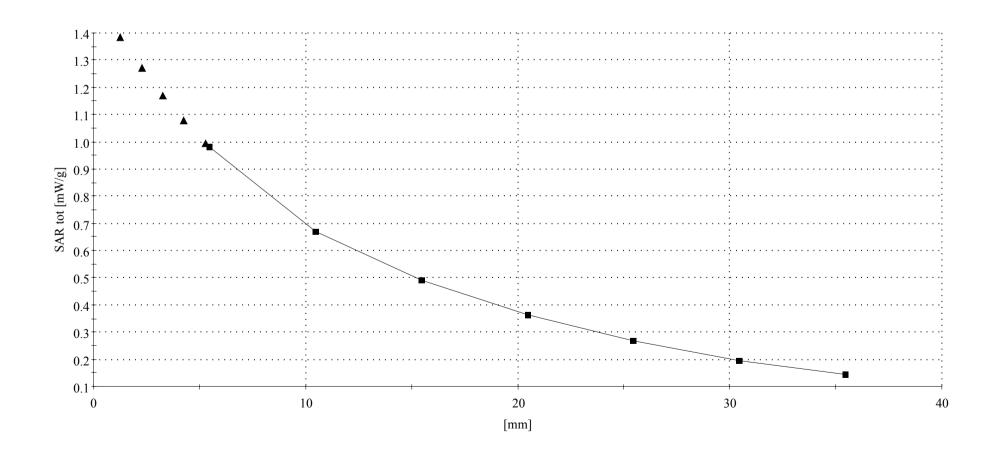
SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 837 MHz; Crest factor: 1.0

Cellular Band - Brain Tissue: $\sigma = 0.94$ mho/m $\epsilon_r = 42.0$ $\rho = 1.00$ g/cm³

Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 1.27 mW/g, SAR (10g): 0.900 mW/g, (Worst-case extrapolation)

Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0



GMLNPD-1GW, AMPS, Channel 991, Regular Cover, Antenna Retracted, 20mm Spacer on Back of Phone + HDC-5 Headset.

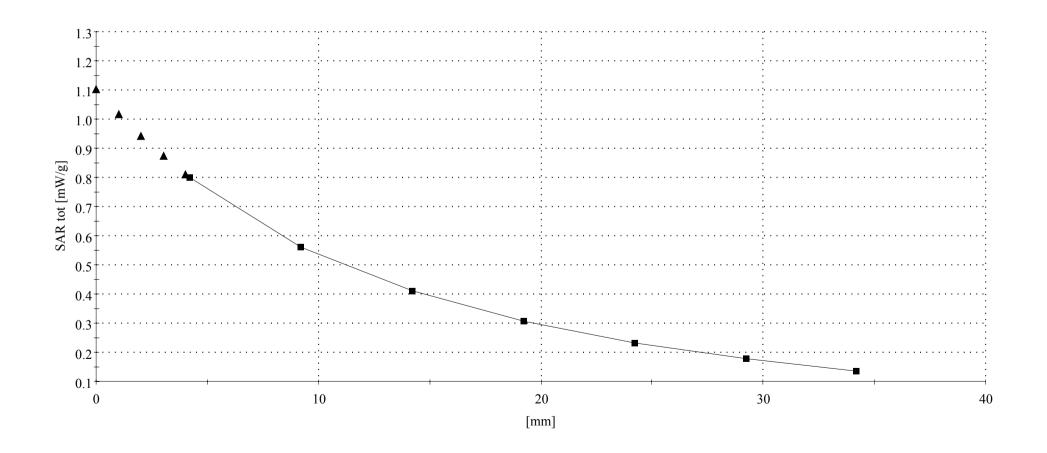
SAM 2 (Cellular - Muscle Tissue) Phantom Frequency: 824 MHz; Crest factor: 1.0

Cellular Band - Muscle Tissue: $\sigma = 0.96$ mho/m $\epsilon_r = 57.6$ $\rho = 1.00$ g/cm³

Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cube 5x5x7: SAR (1g): 1.10 mW/g, SAR (10g): 0.799 mW/g, (Worst-case extrapolation)

Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0



GMLNPD-1GW, CDMA 800, Channel 777, Regular Cover, Antenna Retracted, Left Touch Position.

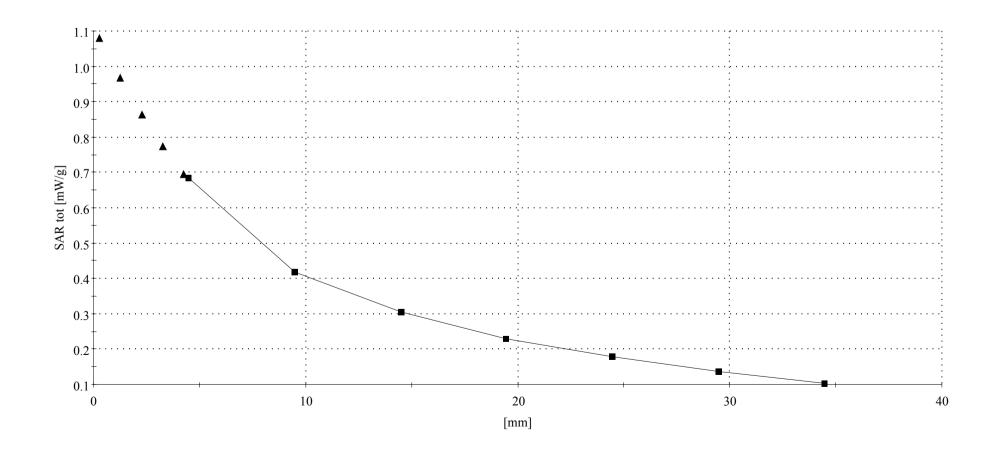
SAM 1 (Cellular - Brain Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

Cellular Band - Brain Tissue: $\sigma = 0.92$ mho/m $\epsilon_r = 41.6$ $\rho = 1.00$ g/cm³

Probe: ET3DV6 - SN1505; ConvF(6.80,6.80,6.80)

Cube 5x5x7: SAR (1g): 1.26 mW/g, SAR (10g): 0.865 mW/g, (Worst-case extrapolation)

Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0



GMLNPD-1GW, CDMA 800, Channel 777, Active Cover, Antenna Retracted, 20mm Spacer on Back of Phone + HDC-5 Headset.

SAM 2 (Cellular - Muscle Tissue) Phantom Frequency: 848 MHz; Crest factor: 1.0

Cellular Band - Muscle Tissue: $\sigma = 0.95$ mho/m $\varepsilon_r = 57.0$ $\rho = 1.00$ g/cm³

Probe: ET3DV6 - SN1505; ConvF(6.60,6.60,6.60)

Cube 5x5x7: SAR (1g): 0.695 mW/g, SAR (10g): 0.502 mW/g, (Worst-case extrapolation)

Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0

