

File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/99040603_ZOOM.VLT
Start : 6-Apr-99 10:14:49 am End : 6-Apr-99 10:27:12 am

Radio Type : HYUNDAI
Model Number : HGC-130E
Serial Number : HGC130E01
Frequency : 824.04 MHz
Peak Trans. Pwr : 0.600 W
Start Trans. Pwr: 0.600 W
Antenna Type : Helical
Antenna Posn. : In
Phantom Type : Head
Phantom Posn. : Left Ear
Scan Type : ZOOM/SAR
Probe Name : PCTEST
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Brain
Mixture Dielectric Constant = 43.400
Mixture Conductivity = 0.900

Comment :
HYUNDAI DUAL MODE PHONE
CHANNEL 991 FM MODE
PCTEST

Robot : PCTEST

Probe Offset = 0.25 cm
Sensor Factor = 0.0108
Conversion Factor = 0.790

PCTEST Amplifier Channel Settings : 0.168 0.136 0.132

Diode Coefficients:

Channel 1	An=-10.851	Bn=86.223	Cn=38.593	Dn=-0.016	Mn=0.026	Yn=0.000
Channel 2	An=-21.618	Bn=92.335	Cn=34.909	Dn=-0.019	Mn=0.029	Yn=0.000
Channel 3	An=-11.171	Bn=50.619	Cn=19.002	Dn=-0.025	Mn=0.052	Yn=0.001

Max Location : X = 2.500, Y = -2.250, Z = 0.000 (cm) Value = 21.285

Measured Values (volts) =

1.981E-002	1.704E-002	1.417E-002	1.190E-002	1.025E-002	8.867E-003
7.565E-003	6.560E-003	5.495E-003	4.607E-003	3.722E-003	2.889E-003
2.196E-003	1.662E-003	1.172E-003	8.339E-004	5.583E-004	2.802E-004
9.990E-005	-4.946E-005	-2.522E-004			

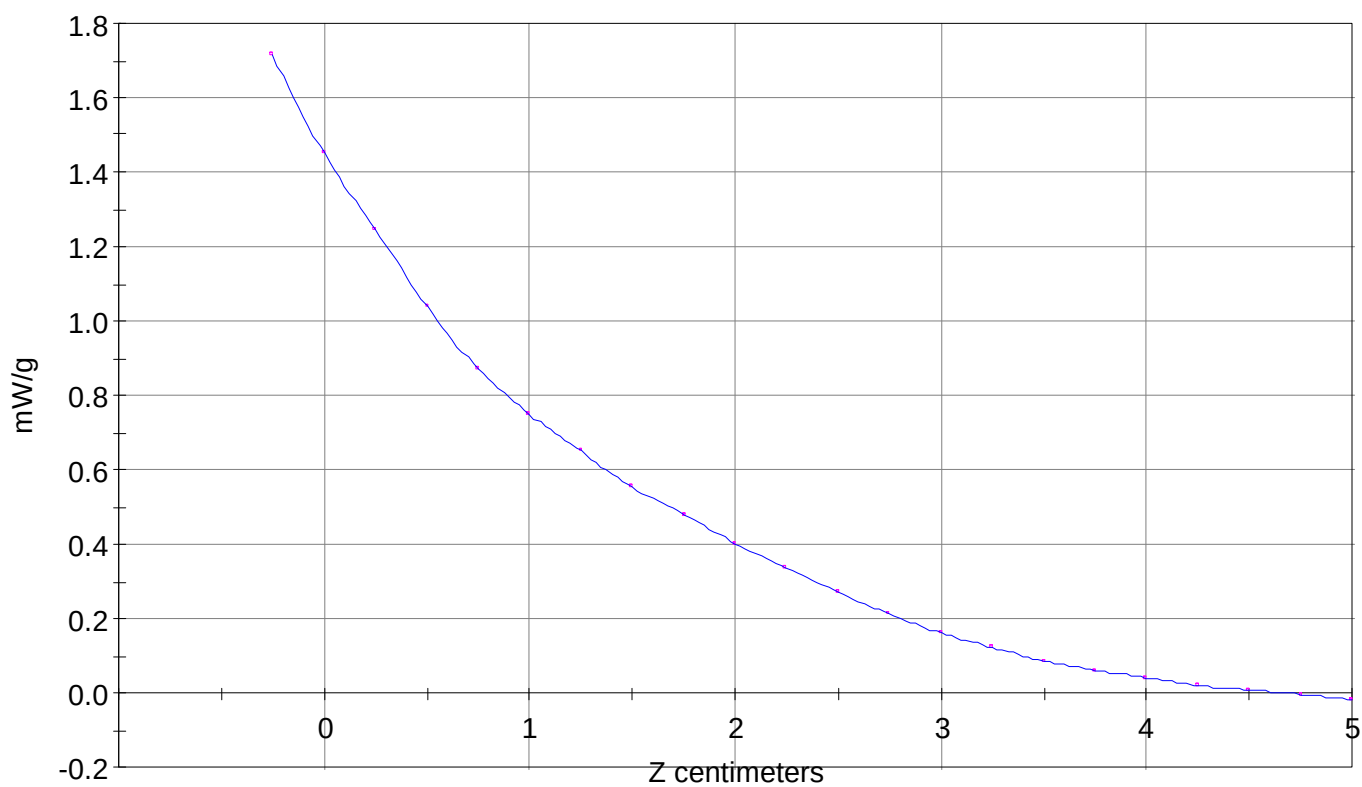
Calc. Voltage @ Surface (Vs) = 0.0234

Voltage @ 1.00 cm (Vt) = 0.0119

Ave. Voltage (Vs+Vt)/2 = 0.0177

Ave. SAR over 1 g (mW/g) = 1.2926

SAR Scan
File : 99040603_ZOOM
Start : 6-Apr-99 10:14:49 am End : 6-Apr-99 10:27:12 am
HYUNDAI/HGC-130E/HGC130E01;824.04MHz;W;Helical/In;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/43.400/0.900



File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/99040604_ZOOM.VLT
Start : 6-Apr-99 10:33:30 am End : 6-Apr-99 10:42:04 am

Radio Type : HYUNDAI
Model Number : HGC-130E
Serial Number : HGC130E01
Frequency : 824.04 MHz
Peak Trans. Pwr : 0.610 W
Start Trans. Pwr: 0.610 W
Antenna Type : Helical
Antenna Posn. : Out
Phantom Type : Head
Phantom Posn. : Left Ear
Scan Type : ZOOM/SAR
Probe Name : PCTEST
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Brain
Mixture Dielectric Constant = 43.400
Mixture Conductivity = 0.900

Comment :
HYUNDAI DUAL MODE PHONE
CHANNEL 991 FM MODE
PCTEST

Robot : PCTEST

Probe Offset = 0.25 cm
Sensor Factor = 0.0108
Conversion Factor = 0.790

PCTEST Amplifier Channel Settings : 0.168 0.136 0.132

Diode Coefficients:

Channel 1	An=-10.851	Bn=86.223	Cn=38.593	Dn=-0.016	Mn=0.026	Yn=0.000
Channel 2	An=-21.618	Bn=92.335	Cn=34.909	Dn=-0.019	Mn=0.029	Yn=0.000
Channel 3	An=-11.171	Bn=50.619	Cn=19.002	Dn=-0.025	Mn=0.052	Yn=0.001

Max Location : X = 2.750, Y = -2.000, Z = 0.000 (cm) Value = 22.104

Measured Values (volts) =

2.162E-002	1.748E-002	1.489E-002	1.248E-002	1.060E-002	8.875E-003
7.688E-003	6.405E-003	5.277E-003	4.222E-003	3.281E-003	2.415E-003
1.789E-003	1.217E-003	8.016E-004	5.337E-004	3.103E-004	1.739E-004
7.129E-005	-4.762E-005	-1.793E-004			

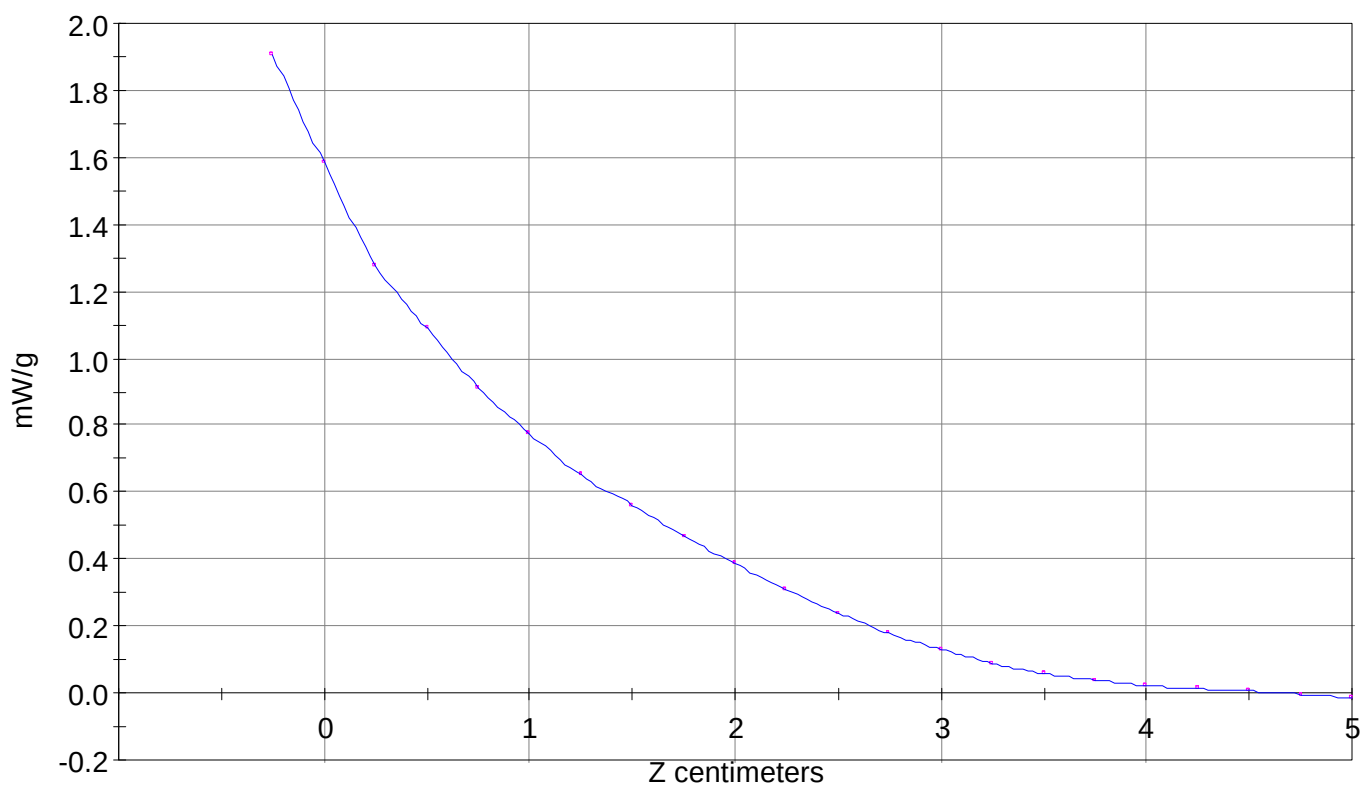
Calc. Voltage @ Surface (Vs) = 0.0261

Voltage @ 1.00 cm (Vt) = 0.0125

Ave. Voltage (Vs+Vt)/2 = 0.0193

Ave. SAR over 1 g (mW/g) = 1.4099

SAR Scan
File : 99040604_ZOOM
Start : 6-Apr-99 10:33:30 am End : 6-Apr-99 10:42:04 am
HYUNDAI/HGC-130E/HGC130E01;824.04MHz;W;Helical/Out;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/43.400/0.900



File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/99040605_ZOOM.VLT
Start : 6-Apr-99 10:49:36 am End : 6-Apr-99 11:01:40 am

Radio Type : HYUNDAI
Model Number : HGC-130E
Serial Number : HGC130E01
Frequency : 836.49 MHz
Peak Trans. Pwr : 0.600 W
Start Trans. Pwr: 0.600 W
Antenna Type : Helical
Antenna Posn. : In
Phantom Type : Head
Phantom Posn. : Left Ear
Scan Type : ZOOM/SAR
Probe Name : PCTEST
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Brain
Mixture Dielectric Constant = 43.400
Mixture Conductivity = 0.900

Comment :
HYUNDAI DUAL MODE PHONE
CHANNEL 383 FM MODE
PCTEST

Robot : PCTEST

Probe Offset = 0.25 cm
Sensor Factor = 0.0108
Conversion Factor = 0.790

PCTEST Amplifier Channel Settings : 0.168 0.136 0.132

Diode Coefficients:

Channel 1	An=-10.851	Bn=86.223	Cn=38.593	Dn=-0.016	Mn=0.026	Yn=0.000
Channel 2	An=-21.618	Bn=92.335	Cn=34.909	Dn=-0.019	Mn=0.029	Yn=0.000
Channel 3	An=-11.171	Bn=50.619	Cn=19.002	Dn=-0.025	Mn=0.052	Yn=0.001

Max Location : X = 2.750, Y = -2.500, Z = 0.000 (cm) Value = 21.007

Measured Values (volts) =

2.064E-002	1.839E-002	1.469E-002	1.229E-002	1.054E-002	8.956E-003
7.803E-003	6.610E-003	5.449E-003	4.456E-003	3.562E-003	2.736E-003
2.032E-003	1.443E-003	1.045E-003	7.109E-004	4.841E-004	2.901E-004
9.940E-005	7.667E-006	-1.450E-004			

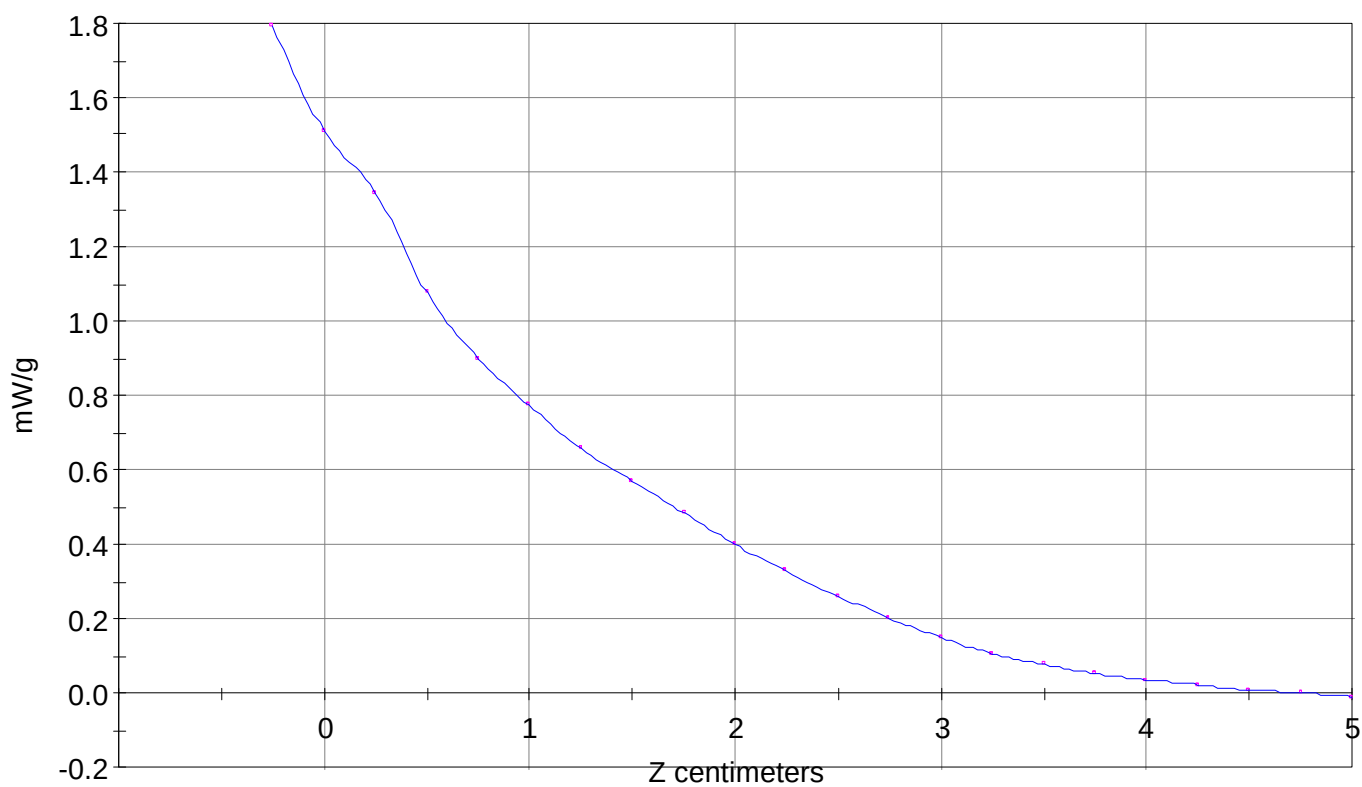
Calc. Voltage @ Surface (Vs) = 0.0245

Voltage @ 1.00 cm (Vt) = 0.0123

Ave. Voltage (Vs+Vt)/2 = 0.0184

Ave. SAR over 1 g (mW/g) = 1.3455

SAR Scan
File : 99040605_ZOOM
Start : 6-Apr-99 10:49:36 am End : 6-Apr-99 11:01:40 am
HYUNDAI/HGC-130E/HGC130E01;836.49MHz;W;Helical/In;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/43.400/0.900



File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/99040621_ZOOM.VLT
Start : 6-Apr-99 04:40:28 pm End : 6-Apr-99 04:52:34 pm

Radio Type : HYUNDAI
Model Number : HGC-130E
Serial Number : HGC130E01
Frequency : 836.49 MHz
Peak Trans. Pwr : 0.690 W
Start Trans. Pwr : 0.690 W
Antenna Type : Helical
Antenna Posn. : Out
Phantom Type : Head
Phantom Posn. : Left Ear
Scan Type : ZOOM/SAR
Probe Name : PCTEST
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Brain
Mixture Dielectric Constant = 43.400
Mixture Conductivity = 0.900

Comment :
HYUNDAI DUAL MODE PHONE
CHANNEL 383 FM MODE
PCTEST

Robot : PCTEST

Probe Offset = 0.25 cm
Sensor Factor = 0.0108
Conversion Factor = 0.790

PCTEST Amplifier Channel Settings : 0.168 0.136 0.132

Diode Coefficients:

Channel 1	An=-10.851	Bn=86.223	Cn=38.593	Dn=-0.016	Mn=0.026	Yn=0.000
Channel 2	An=-21.618	Bn=92.335	Cn=34.909	Dn=-0.019	Mn=0.029	Yn=0.000
Channel 3	An=-11.171	Bn=50.619	Cn=19.002	Dn=-0.025	Mn=0.052	Yn=0.001

Max Location : X = 2.750, Y = -2.500, Z = 0.000 (cm) Value = 19.853

Measured Values (volts) =

1.881E-002	1.682E-002	1.378E-002	1.162E-002	1.009E-002	8.709E-003
7.512E-003	6.266E-003	5.284E-003	4.288E-003	3.346E-003	2.551E-003
1.852E-003	1.257E-003	8.405E-004	5.687E-004	3.613E-004	2.232E-004
7.122E-005	-3.844E-004	-1.470E-004			

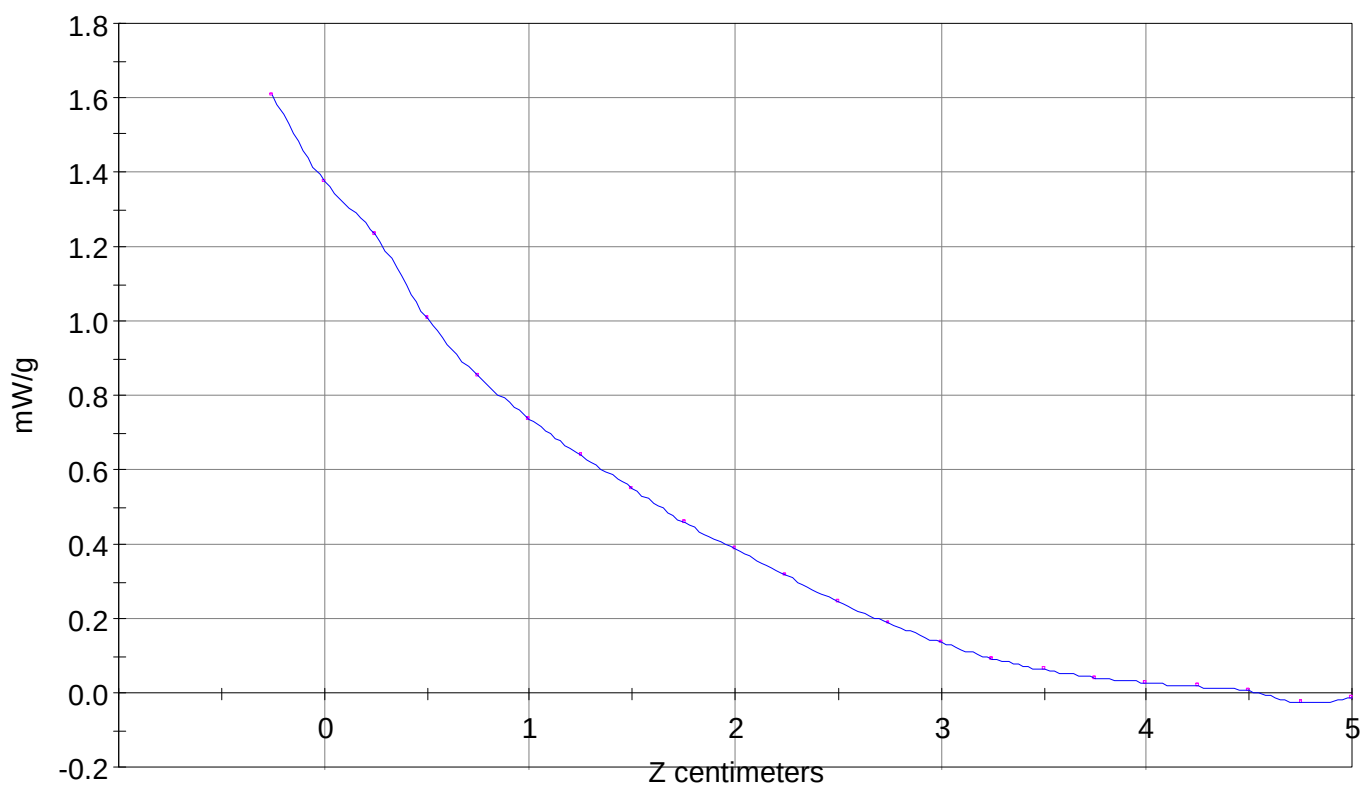
Calc. Voltage @ Surface (Vs) = 0.0220

Voltage @ 1.00 cm (Vt) = 0.0116

Ave. Voltage (Vs+Vt)/2 = 0.0168

Ave. SAR over 1 g (mW/g) = 1.2299

SAR Scan
File : 99040621_ZOOM
Start : 6-Apr-99 04:40:28 pm End : 6-Apr-99 04:52:34 pm
HYUNDAI/HGC-130E/HGC130E01;836.49MHz;W;Helical/Out;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/43.400/0.900



File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/99040607_ZOOM.VLT
Start : 6-Apr-99 11:29:36 am End : 6-Apr-99 11:38:13 am

Radio Type : HYUNDAI
Model Number : HGC-130E
Serial Number : HGC130E01
Frequency : 848.97 MHz
Peak Trans. Pwr : 0.600 W
Start Trans. Pwr: 0.600 W
Antenna Type : Helical
Antenna Posn. : In
Phantom Type : Head
Phantom Posn. : Left Ear
Scan Type : ZOOM/SAR
Probe Name : PCTEST
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Brain
Mixture Dielectric Constant = 43.400
Mixture Conductivity = 0.900

Comment :
HYUNDAI DUAL MODE PHONE
CHANNEL 799 FM MODE
PCTEST

Robot : PCTEST

Probe Offset = 0.25 cm
Sensor Factor = 0.0108
Conversion Factor = 0.790

PCTEST Amplifier Channel Settings : 0.168 0.136 0.132

Diode Coefficients:

Channel 1	An=-10.851	Bn=86.223	Cn=38.593	Dn=-0.016	Mn=0.026	Yn=0.000
Channel 2	An=-21.618	Bn=92.335	Cn=34.909	Dn=-0.019	Mn=0.029	Yn=0.000
Channel 3	An=-11.171	Bn=50.619	Cn=19.002	Dn=-0.025	Mn=0.052	Yn=0.001

Max Location : X = 2.500, Y = -2.000, Z = 0.000 (cm) Value = 17.824

Measured Values (volts) =

1.596E-002	1.359E-002	1.137E-002	9.466E-003	7.966E-003	6.791E-003
5.797E-003	4.842E-003	4.101E-003	3.288E-003	2.578E-003	1.948E-003
1.415E-003	9.799E-004	6.222E-004	3.213E-004	1.376E-004	-2.886E-005
-1.547E-004	-2.814E-004	-3.945E-004			

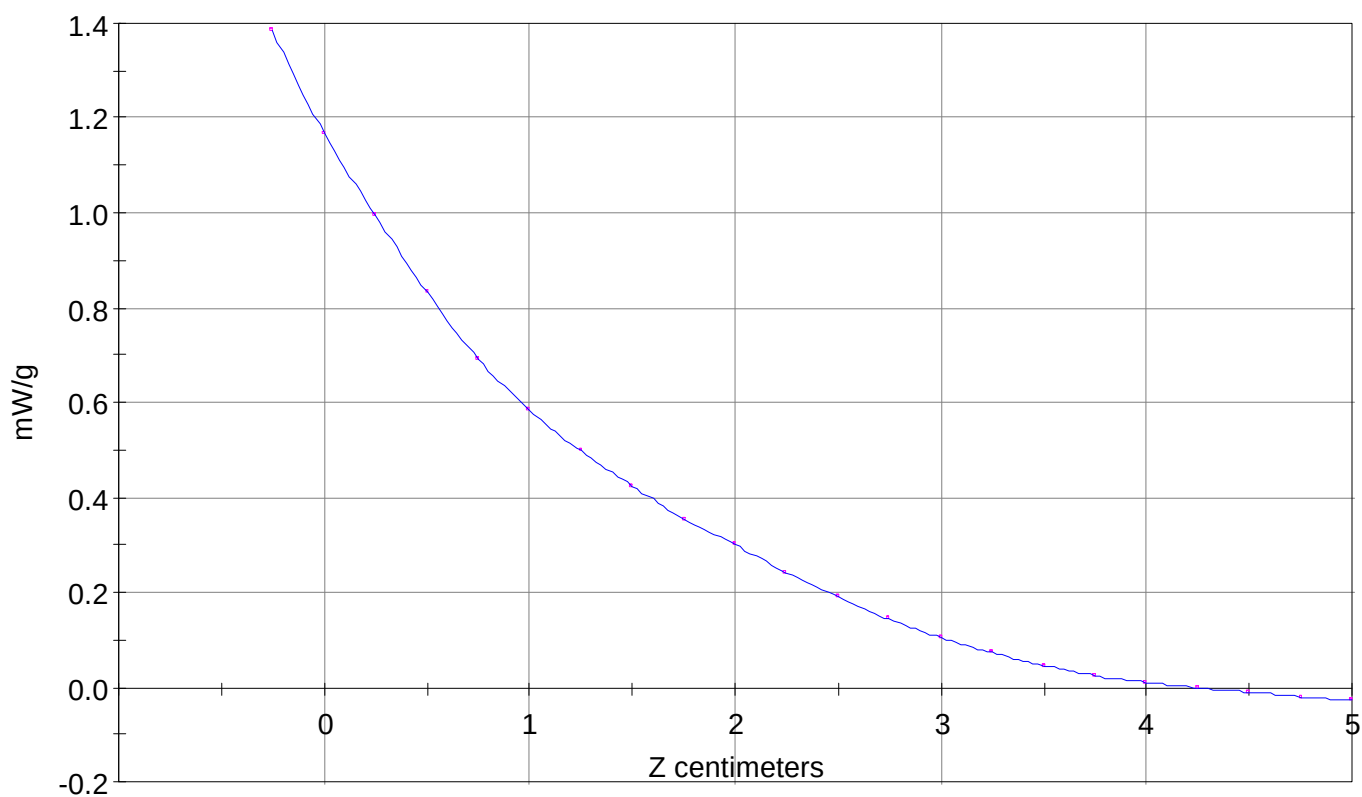
Calc. Voltage @ Surface (Vs) = 0.0189

Voltage @ 1.00 cm (Vt) = 0.0095

Ave. Voltage (Vs+Vt)/2 = 0.0142

Ave. SAR over 1 g (mW/g) = 1.0375

SAR Scan
File : 99040607_ZOOM
Start : 6-Apr-99 11:29:36 am End : 6-Apr-99 11:38:13 am
HYUNDAI/HGC-130E/HGC130E01;848.97MHz;W;Helical/In;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/43.400/0.900



File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/99040620_ZOOM.VLT
Start : 6-Apr-99 04:25:17 pm End : 6-Apr-99 04:33:53 pm

Radio Type : HYUNDAI
Model Number : HGC-130E
Serial Number : HGC130E01
Frequency : 848.97 MHz
Peak Trans. Pwr : 0.700 W
Start Trans. Pwr : 0.700 W
Antenna Type : Helical
Antenna Posn. : Out
Phantom Type : Head
Phantom Posn. : Left Ear
Scan Type : ZOOM/SAR
Probe Name : PCTEST
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Brain
Mixture Dielectric Constant = 43.400
Mixture Conductivity = 0.900

Comment :
HYUNDAI DUAL MODE PHONE
CHANNEL 799 FM MODE
PCTEST

Robot : PCTEST

Probe Offset = 0.25 cm
Sensor Factor = 0.0108
Conversion Factor = 0.790

PCTEST Amplifier Channel Settings : 0.168 0.136 0.132

Diode Coefficients:

Channel 1	An=-10.851	Bn=86.223	Cn=38.593	Dn=-0.016	Mn=0.026	Yn=0.000
Channel 2	An=-21.618	Bn=92.335	Cn=34.909	Dn=-0.019	Mn=0.029	Yn=0.000
Channel 3	An=-11.171	Bn=50.619	Cn=19.002	Dn=-0.025	Mn=0.052	Yn=0.001

Max Location : X = 2.750, Y = -2.000, Z = 0.000 (cm) Value = 24.335

Measured Values (volts) =

2.241E-002	1.915E-002	1.603E-002	1.319E-002	1.137E-002	9.708E-003
8.348E-003	7.171E-003	5.885E-003	4.918E-003	3.721E-003	2.860E-003
2.009E-003	1.438E-003	9.692E-004	6.192E-004	4.049E-004	2.809E-004
1.669E-004	5.836E-005	-5.568E-005			

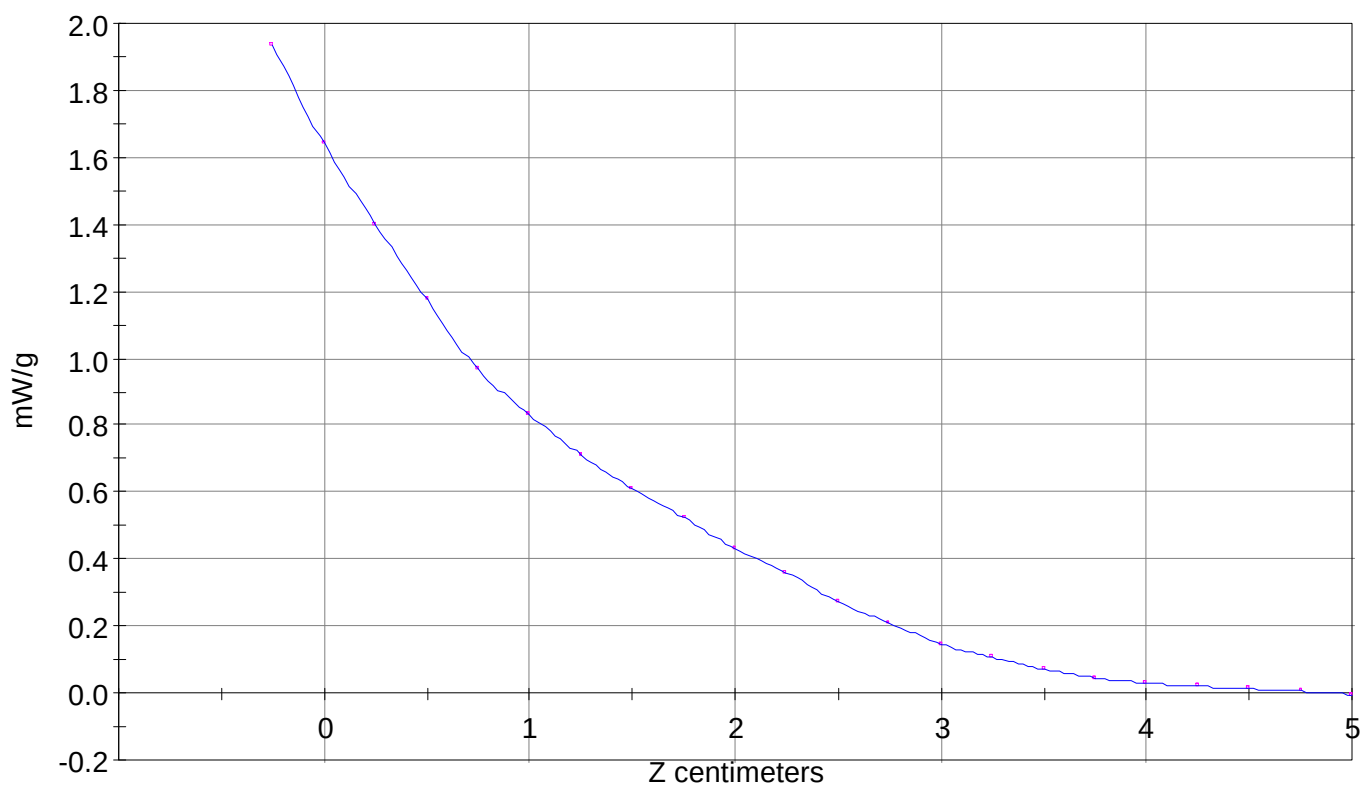
Calc. Voltage @ Surface (Vs) = 0.0265

Voltage @ 1.00 cm (Vt) = 0.0132

Ave. Voltage (Vs+Vt)/2 = 0.0198

Ave. SAR over 1 g (mW/g) = 1.4514

SAR Scan
File : 99040620_ZOOM
Start : 6-Apr-99 04:25:17 pm End : 6-Apr-99 04:33:53 pm
HYUNDAI/HGC-130E/HGC130E01;848.97MHz;W;Helical/Out;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/43.400/0.900

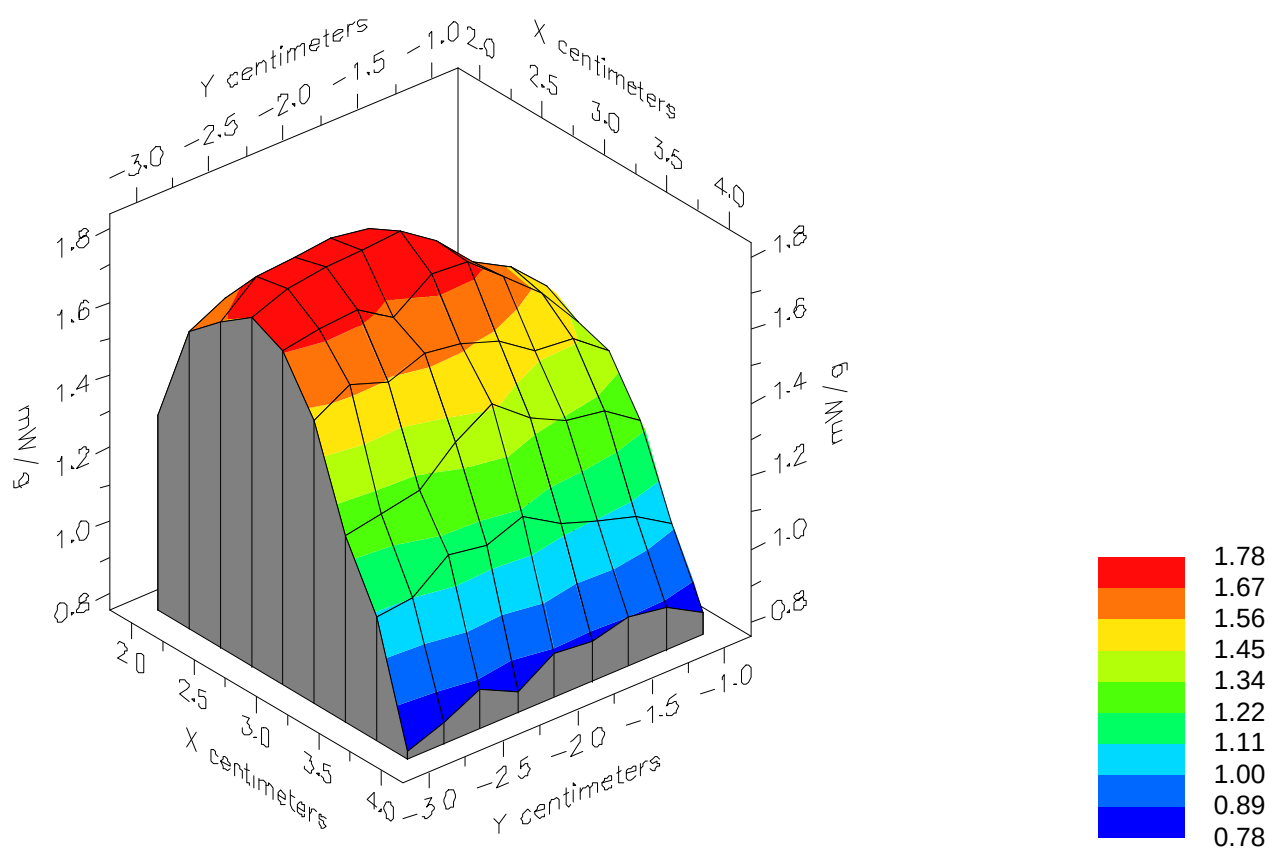


File : 99040620_ZOOM

Start : 6-Apr-99 04:25:17 pm End : 6-Apr-99 04:33:53 pm

HYUNDAI/HGC-130E/HGC130E01;848.97MHz;W;Helical/Out;

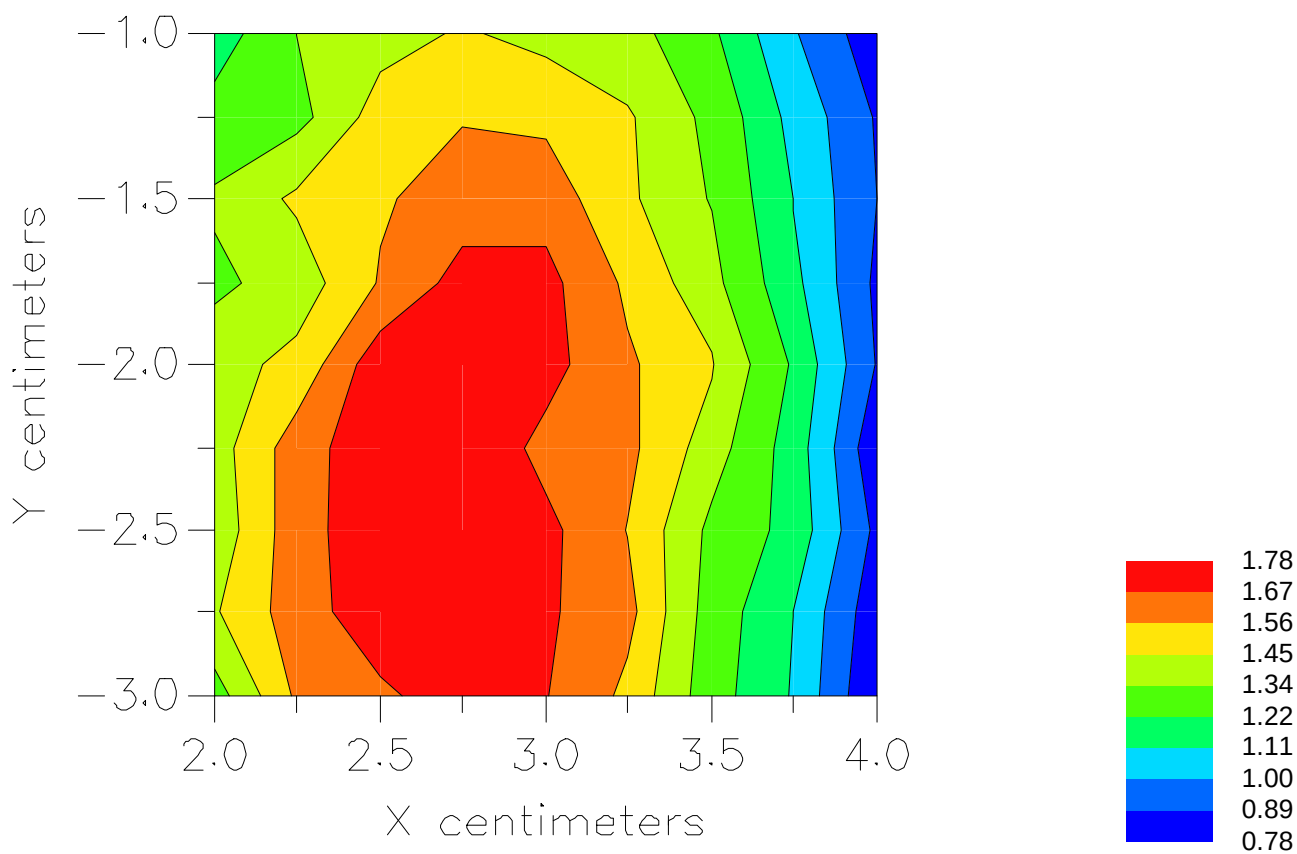
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/43.400/0.900



File : 99040620_ZOOM

Start : 6-Apr-99 04:25:17 pm End : 6-Apr-99 04:33:53 pm

HYUNDAI/HGC-130E/HGC130E01;848.97MHz;W;Helical/Out;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/43.400/0.900



File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/99040622_ZOOM.VLT
Start : 6-Apr-99 05:00:13 pm End : 6-Apr-99 05:08:47 pm

Radio Type : HYUNDAI
Model Number : HGC-130E
Serial Number : HGC130E01
Frequency : 848.37 MHz
Peak Trans. Pwr : 0.300 W
Start Trans. Pwr: 0.300 W
Antenna Type : Helical
Antenna Posn. : In
Phantom Type : Head
Phantom Posn. : Left Ear
Scan Type : ZOOM/SAR
Probe Name : PCTEST
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Brain
Mixture Dielectric Constant = 43.400
Mixture Conductivity = 0.900

Comment :
HYUNDAI DUAL MODE PHONE
CHANNEL 799 CDMA MODE
PCTEST

Robot : PCTEST

Probe Offset = 0.25 cm
Sensor Factor = 0.0108
Conversion Factor = 0.790

PCTEST Amplifier Channel Settings : 0.168 0.136 0.132

Diode Coefficients:

Channel 1	An=-10.851	Bn=86.223	Cn=38.593	Dn=-0.016	Mn=0.026	Yn=0.000
Channel 2	An=-21.618	Bn=92.335	Cn=34.909	Dn=-0.019	Mn=0.029	Yn=0.000
Channel 3	An=-11.171	Bn=50.619	Cn=19.002	Dn=-0.025	Mn=0.052	Yn=0.001

Max Location : X = 2.500, Y = -2.750, Z = 0.000 (cm) Value = 9.434

Measured Values (volts) =

9.457E-003	7.798E-003	6.268E-003	5.240E-003	4.438E-003	3.800E-003
3.196E-003	2.609E-003	2.043E-003	1.640E-003	1.235E-003	8.232E-004
4.485E-004	1.960E-004	-3.733E-005	-1.844E-004	-3.326E-004	-4.241E-004
-5.653E-004	-6.211E-004	-6.893E-004			

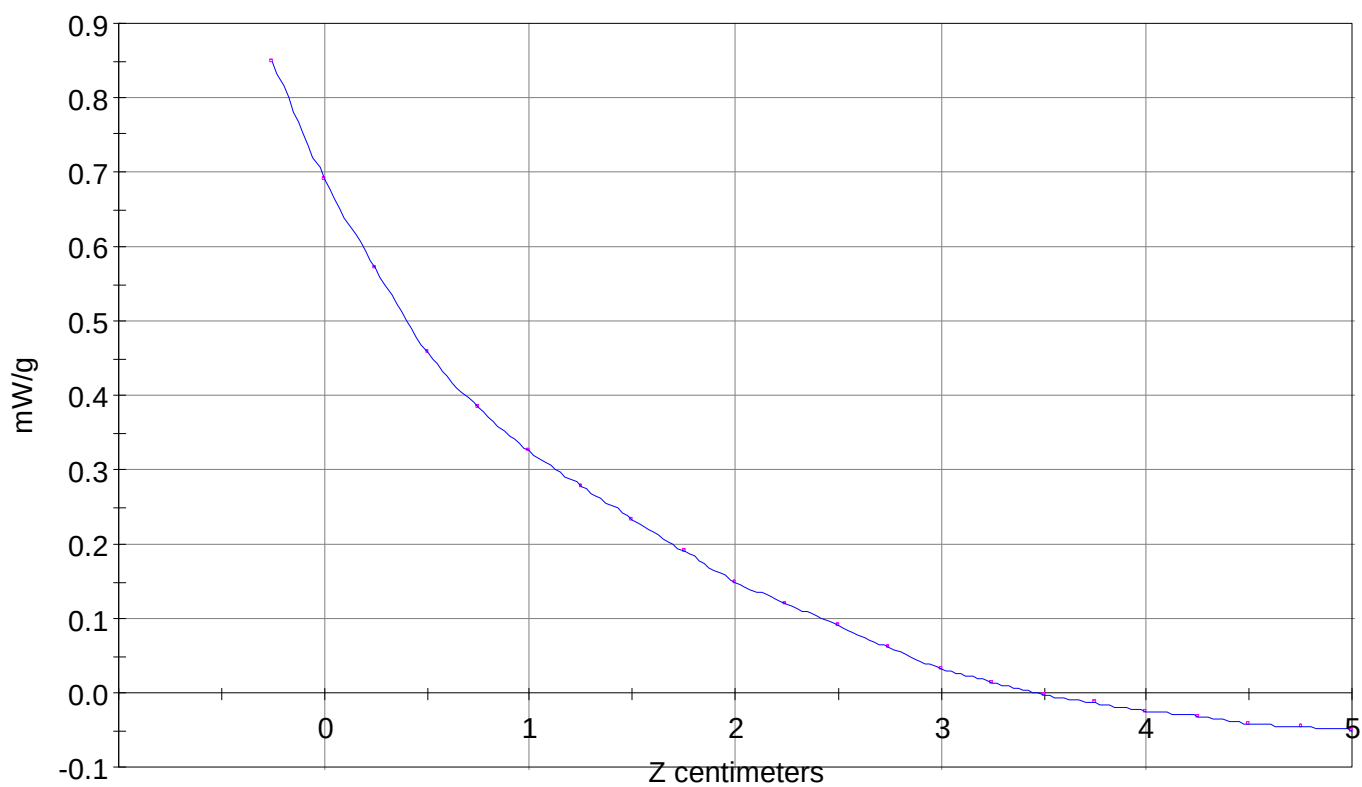
Calc. Voltage @ Surface (Vs) = 0.0116

Voltage @ 1.00 cm (Vt) = 0.0052

Ave. Voltage (Vs+Vt)/2 = 0.0084

Ave. SAR over 1 g (mW/g) = 0.6165

SAR Scan
File : 99040622_ZOOM
Start : 6-Apr-99 05:00:13 pm End : 6-Apr-99 05:08:47 pm
HYUNDAI/HGC-130E/HGC130E01;838.37MHz;W;Helical/In;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/43.400/0.900



File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/99040623_ZOOM.VLT
Start : 6-Apr-99 05:13:37 pm End : 6-Apr-99 05:22:12 pm

Radio Type : HYUNDAI
Model Number : HGC-130E
Serial Number : HGC130E01
Frequency : 848.37 MHz
Peak Trans. Pwr : 0.350 W
Start Trans. Pwr : 0.350 W
Antenna Type : Helical
Antenna Posn. : Out
Phantom Type : Head
Phantom Posn. : Left Ear
Scan Type : ZOOM/SAR
Probe Name : PCTEST
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Brain
Mixture Dielectric Constant = 43.400
Mixture Conductivity = 0.900

Comment :
HYUNDAI DUAL MODE PHONE
CHANNEL 799 CDMA MODE
PCTEST

Robot : PCTEST

Probe Offset = 0.25 cm
Sensor Factor = 0.0108
Conversion Factor = 0.790

PCTEST Amplifier Channel Settings : 0.168 0.136 0.132

Diode Coefficients:

Channel 1	An=-10.851	Bn=86.223	Cn=38.593	Dn=-0.016	Mn=0.026	Yn=0.000
Channel 2	An=-21.618	Bn=92.335	Cn=34.909	Dn=-0.019	Mn=0.029	Yn=0.000
Channel 3	An=-11.171	Bn=50.619	Cn=19.002	Dn=-0.025	Mn=0.052	Yn=0.001

Max Location : X = 2.750, Y = -2.250, Z = 0.000 (cm) Value = 10.604

Measured Values (volts) =

1.103E-002	9.278E-003	7.571E-003	6.242E-003	5.330E-003	4.432E-003
3.790E-003	3.123E-003	2.467E-003	1.977E-003	1.345E-003	8.525E-004
4.717E-004	2.014E-004	2.425E-006	-1.918E-004	-3.209E-004	-3.501E-004
-4.450E-004	-4.966E-004	-5.509E-004			

Calc. Voltage @ Surface (Vs) = 0.0133

Voltage @ 1.00 cm (Vt) = 0.0062

Ave. Voltage (Vs+Vt)/2 = 0.0098

Ave. SAR over 1 g (mW/g) = 0.7152

SAR Scan
File : 99040623_ZOOM
Start : 6-Apr-99 05:13:37 pm End : 6-Apr-99 05:22:12 pm
HYUNDAI/HGC-130E/HGC130E01;838.37MHz;W;Helical/Out;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/43.400/0.900

