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No.L1659



ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR05_010

Advanced Wireless Group Limited

850/1900 Dual mode handset

Type Name: BP118

FCC ID: S63BP118

Hardware Version: BP138 rev.0.1 150405

Software Version: E1ESPZ0108002

Date of Issue: 2005-8-12





No. SAR05-010

GENERAL SUMMARY

Product Name	850/1900 Dual mode handset	Development Stage	MP
Standard(s)	<p>47CFR § 2.1093: Radiofrequency Radiation Exposure Evaluation: Portable Devices</p> <p>FCC OET Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01): Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields</p> <p>ANSI C95.1-1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.</p> <p>IEEE 1528-2003: Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques.</p>		
Conclusion	<p>Localized Specific Absorption Rate (SAR) of this portable wireless equipment has been measured in all cases requested by the relevant standards cited in Clause 5.2 of this test report. Maximum localized SAR is below exposure limits specified in the relevant standards cited in Clause 5.1 of this test report.</p> <p>General Judgment: Pass</p>		
	Date of issue: August 12th, 2005		
Comment	<p>TX Freq. Band: 824.20 MHz—848.80 MHz 1850.20 MHz —1909.80 MHz</p> <p>RX Freq. Band: 869.20 MHz—893.80 MHz 1930.20 MHz —1989.80 MHz</p> <p>Max. Power(EIRP): 0.568w(27.54dBm) 0.356w(25.52dBm)</p> <p>Antenna Character : build inside</p> <p>The test result only responds to the measured sample.</p>		
Tested by:	<p><i>Lijun Liang</i> Lijun Liang</p>		
Checked by:	<p><i>Smart Li</i> Smart Li</p>		
Approved by:	<p><i>Keqin Wang</i> Keqin Wang</p>		



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1. GENERAL CONDITIONS

1.1 This report only refers to the item that has undergone the test.

1.2 This report standalone dose not constitute or imply by its own an approval of the product by the certification Bodies or competent Authorities.

1.3 This document is only valid if complete; no partial reproduction can be made without written approval of Shenzhen Electronic Product Quality Testing Center.

1.4 This report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of Shenzhen Electronic Product Quality Testing Center and the Accreditation Bodies, if it applies.

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2. Administrative Data

2.1. Identification of the Responsible Testing Laboratory

Company Name: ShenZhen Electronic Product Quality Testing Center
Department: Testing Department
Address: Electronic Testing Building, ShaHe Road, NanShan District, ShenZhen, P. R. China
Telephone: +86-0755-26628676
Fax: +86-0755-26627238
Responsible Test Lab Managers: Mr. Wang Keqin

2.2. Identification of the Responsible Testing Location(s)

Company Name: ShenZhen Electronic Product Quality Testing Center
Address: Electronic Testing Building, ShaHe Road, NanShan District, ShenZhen, P. R. China

2.3. Organization Item

S.E.T Report No.: SAR05_010
S.E.T Project Leader: Mr. Li Sixiong
S.E.T Responsible for accreditation scope: Mr. Wang Keqin
Start of Testing: 2005-8-8
End of Testing: 2005-8-11

2.4. Identification of Applicant

Company Name: Advanced Wireless Group Limited
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Contact person: Stephen HO
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2.5. Identification of Manufacture

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Address: Blk B, 4/F Qian Jin Road 2, District 75, Liu Tang, Xi Xiang Bao An, ShenZhen. 518102
Contact person: Stephen HO
Telephone: (+86)755-2794 2851
Fax: (+86)755-2794 2555

Notes: This data is based on the information by the applicant.



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3. Equipment Under Test (EUT)

3.1. Identification of the Equipment under Test

Brand Name:	AWG	
Type Name:	BP118	
Marking Name:	BP118	
General description:	Test frequency	GSM 850MHz PCS 1900MHz
	Battery type	LI-ON
	Antenna type	Build inside
	Operation mode	Call established
	Modulation mode	GSM; no GPRS; no Bluetooth
	Max. Power(EIRP)	0.568w(27.54dBm) 0.356w(25.52dBm)

3.2. Identification of all used Test Sample of the Equipment under Test

EUT Code	Serial Number	Hardware Version	Software Version	IMEI
18050f01	N.A.	BP138 rev.0.1 150405	E1ESPZ0108002	135790246811222

4 OPERATIONAL CONDITIONS DURING TEST

4.1 Schematic Test Configuration

During SAR test, EUT is in Traffic Mode (Channel Allocated) at Normal Voltage Condition. A communication link is set up with a System Simulator (SS) by air link, and a call is established.

The TCH is allocated to 128, 190 and 251 respectively in the case of GSM 850 MHz, or to 512, 661 and 810 respectively in the case of PCS 1900 MHz. The EUT is commanded to operate at maximum transmitting power.

The EUT shall use its internal transmitter. The antenna(s), battery and accessories shall be those specified by the manufacturer. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. If a wireless link is used, the antenna connected to the output of the base station simulator shall be placed at least 50 cm away from the handset.

The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the handset by at least 35 dB.

4.2 SAR Measurement System

The SAR measurement system being used is the IndexSAR SARA2 system, which consists of a

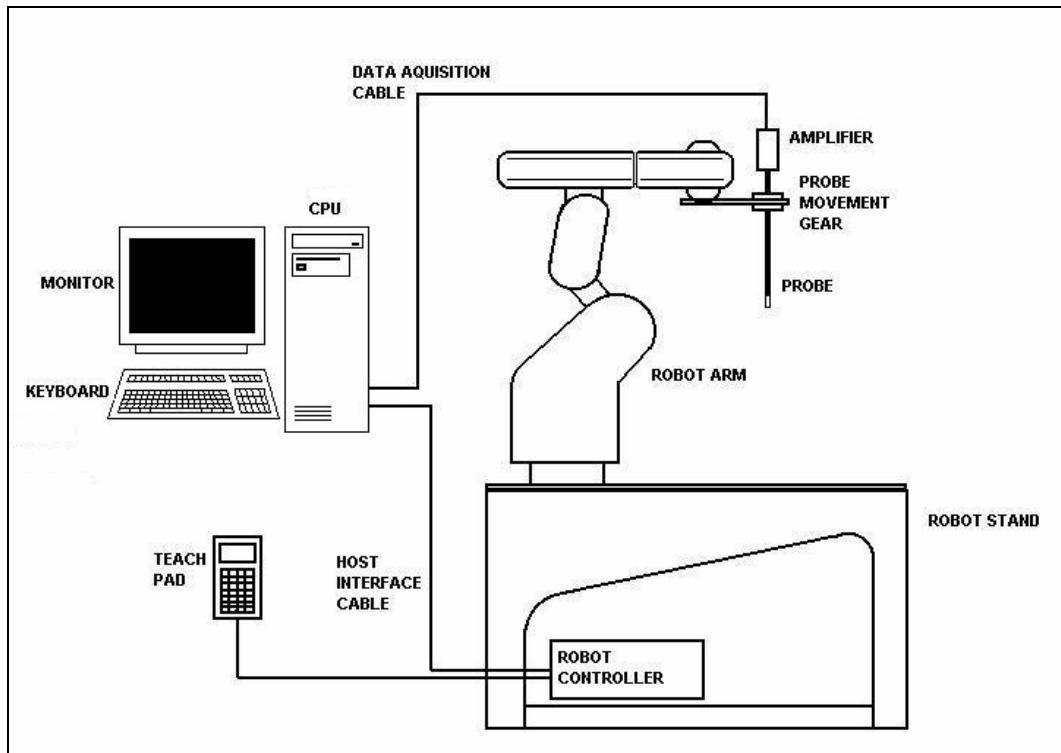


Figure1. SAR Lab Test Measurement Set-up

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Mitsubishi RV-E2 6-axis robot arm and controller, IndexSAR probe and amplifier and SAM phantom

Head Shape. The system is controlled remotely from a PC, which contains the software to control the robot and data acquisition equipment. The software also displays the data obtained from test scans.

In operation, the system first does an area (2D) scan at a fixed depth within the liquid from the inside wall of the phantom. When the maximum SAR point has been found, the system will then carry out a 3D scan centred at that point to determine volume averaged SAR level.

4.2.1 Robot system specification

The robot is used to articulate the probe to programmed positions inside the phantom head to obtain the SAR readings from the DUT.

Robot and Stand	
	Type Mitsubishi Movemaster RV-2A / 6 axis vertical articulated robot
	Dimensions (robot) Height: 790mm (in home position)
	Dimensions (robot stand) 1010L x 450W x 820H mm
	Weight Approx. 36 kg
	Position repeatability +/- 0.04mm
	Drive Method AC servomotor
	Expandability Extra axis expansion capability for probe calibration applications E-Field probe

Robot Controller Unit	
	Type CR1 - 571
	Dimensions 212W x 290D x 151H mm
	Weight 8 kg
	Power source single-phase 100 - 240 VAC

4.2.2 Probe and amplifier specification

IXP-050 Indexsar isotropic immersible SAR probe

The probes are constructed using three orthogonal dipole sensors arranged on an interlocking, triangular

prism core. The probes have built-in shielding against static charges and are contained within a PEEK cylindrical enclosure material at the tip (showed in figure 2). The system uses diode compression potential (DCP) to determine SAR values for different types of modulation. Crest factor is not used for determining SAR values. The DCP for different types of modulation is determined during the probe calibration procedure.

E-filed Probe	
Type	Three orthogonal dipole sensors arranged on triangular, interlocking substrates Overall length: 350mm Tip length: 10mm Body diameter: 12mm Tip diameter: 5mm
Dimensions	Distance from probe tip to dipole centers: 2.5mm Lemo 6 pole latching connector for interfacing to high impedance amplifier
Interfacing	+/- 0.5dB in brain liquids (rotation about probe axis) typically +/- 0.15dB
Isotropy	+/- 0.5dB in brain liquids (rotation normal to probe axis)
Calibration	Indexsar calibration in brain tissue simulating liquids at frequency of 850MHz, 900MHz, 1800MHz and 1900MHz
Dynamic Range	0.001W/kg to 100W/kg in liquid. Linearity +/- 0.2W/kg

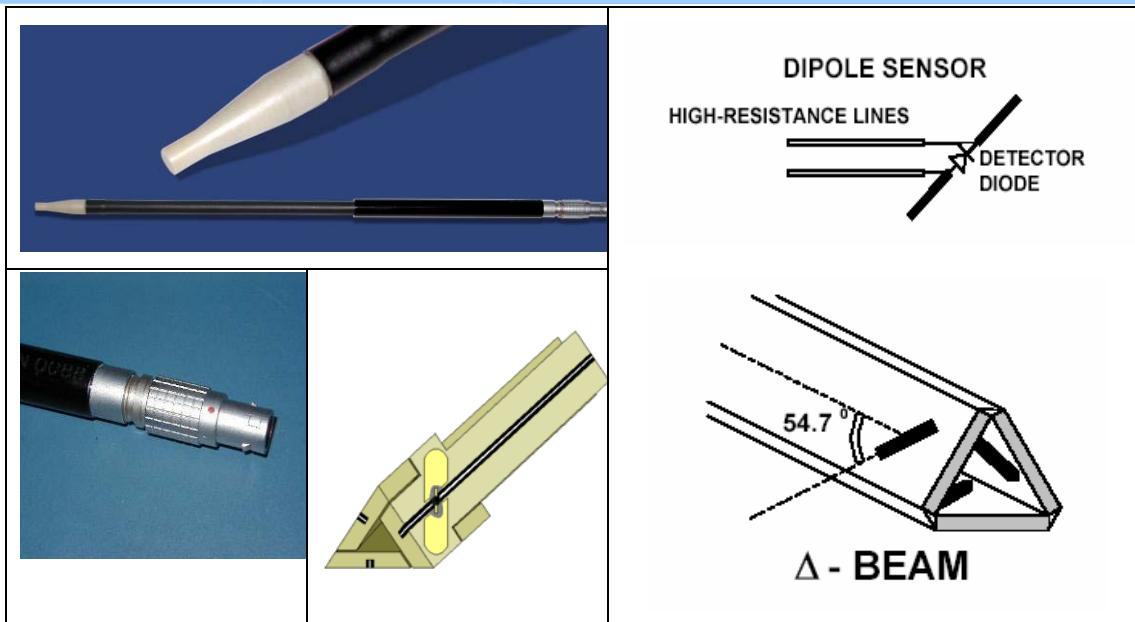
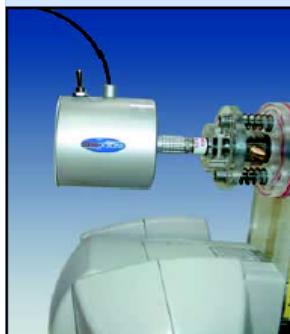


Figure2. Specification and characterisation parameters of indexsar probe

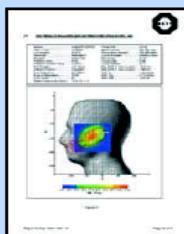
IFA-010 Amplifier

The amplifier unit has a multi-pole connector to connect to the probe and a multiplexer selects between the 3-channel single-ended inputs. A 16-bit AtoD converter with programmable gain is used along with an on-board micro-controller with non-volatile firmware. Battery life is around 150 hours and data are transferred to the PC via 3m of duplex optical fibre and a self-powered RS232 to optical converter.



Probe Amplifier and PC Interface

Type	High impedance inputs with 3 independent x,y,z sensor channels giving simultaneous measurement data every 2ms. Reads true average of modulated signals without the need for duty cycle corrections
Ranges	Software selectable of x1 to 63
Cable	Optical cable with self-powered 9 way RS232 converter. 3m cable length supplied as standard. Other lengths to order.
Power Requirements	2 x AAA batteries giving approximately 100 hours usage.



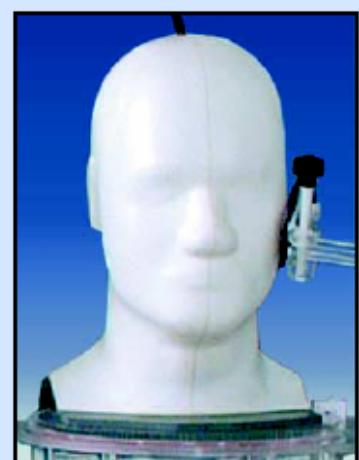
'Word' report format

The results of each frequency scan are presented in a Microsoft 'Word' document with all the necessary measurement parameters automatically tabulated. Users can customise the layout and in some cases language changes are possible.

4.2.3 Phantoms and simulant liquid

4.2.3.1 SAR head phantom (SAM)

The Indexsar SAM Upright Phantom is fabricated to the shape defined in these CAD files by Antennessa.



Head Phantom

Type 2	Upright SAM phantom
Dimensions	Height: 320mm Baseplate diameter: 275mm
Weight	empty: 1.2 kg filled: 7.2 kg
Wall thickness	2.0 mm \pm 0.2
Construction	Low loss resin / Strengthened saggital seam

It is mounted on the base table, which holds the robotic positioner. Both mechanical and laser-based

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registration systems are utilised to register the phantom position in relationship to the robot co-ordinate system. In the SARA2 implementation, the SAM phantom is mounted on a supporting table made of low dielectric loss material, which includes mounting brackets for DUT positioners, dipole holders and (optionally) a shelf for supporting larger devices like laptop computers.

4.2.3.2 Box phantom

The box phantom used for body testing and for validation is manufactured from Perspex.

IXB – 070 Specification and characterisation parameters



Constructional details	
Internal dimensions:	200mm x 200mm x 200mm
Thickness of base:	2mm +/- 0.2mm
Wall thickness:	4mm
Material:	PMMA
Frequency range	900MHz – 6GHz
Dielectric properties	
	Relative permittivity 2.7
	Loss tangent <0.02

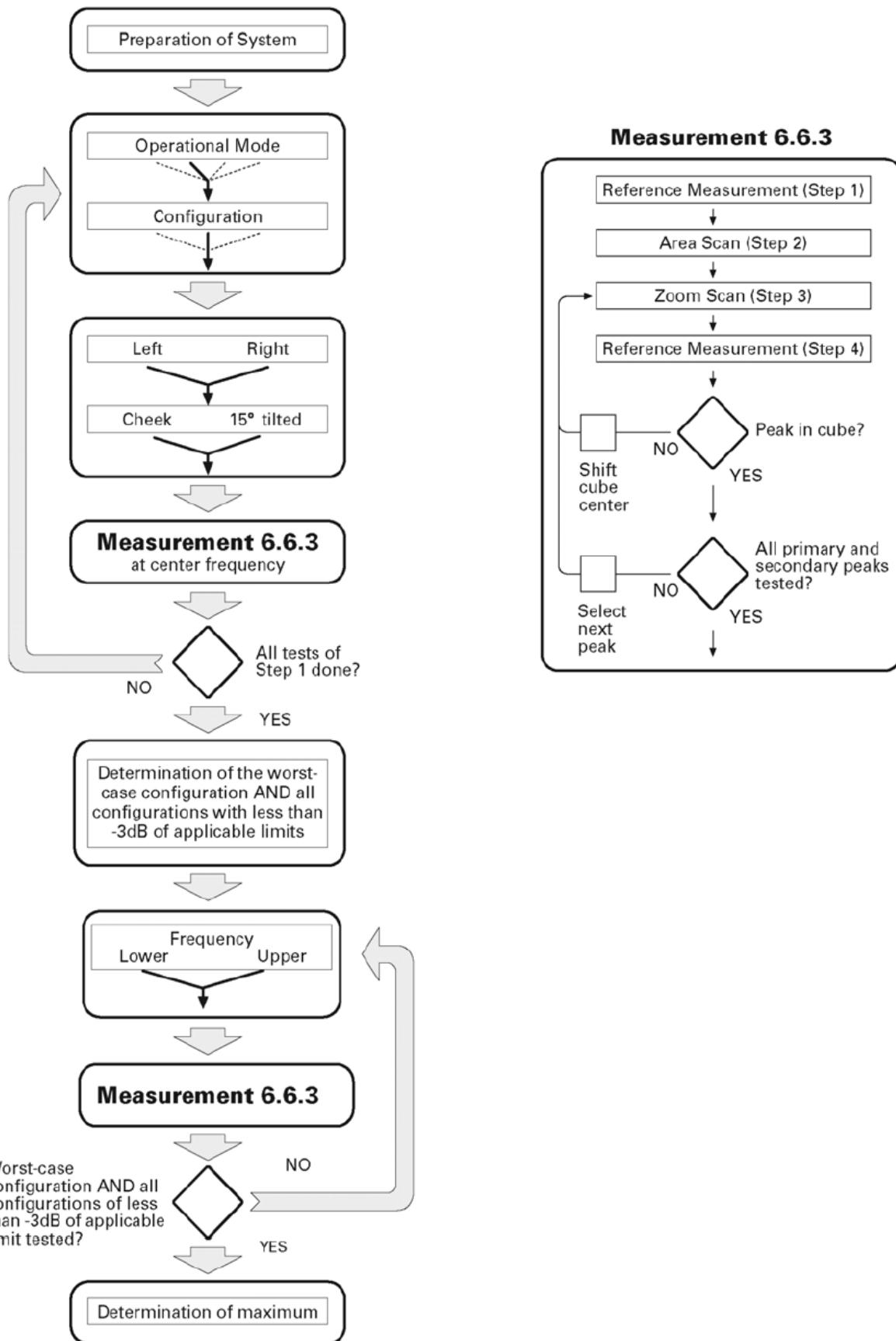
Tissue-simulant volume required for 150mm depth (6 litres)

4.2.3.3 Simulant liquids

Simulant liquids that are used for testing at frequencies of GSM 850MHz and PCS 1900MHz, which are made mainly of sugar, salt and water solutions may be left in the phantoms. Approximately 7litres are needed for an upright head compared to about 27litres for a horizontal bath phantom.

Ingredients (% by weight)	Frequency(MHz)			
	850		1900	
Tissue Type	Head	Body	Head	Body
Water	40.92	56.0	54.9	40.4
Salt(NaCl)	1.48	0.76	0.18	0.5
Sugar	56.5	41.76	0.0	58.0
HEC	1	1.21	0.0	1.0
Bacterial de	0.0	0.0	0.0	0.1
DGBE	0.0	0.0	44.92	0.0
Acticide SPX	0.1	0.27	0.0	0.0
Dielectric Constant	41.44	52.99	39.9	54.0
Conductivity (S/m)	0.99	1.12	1.42	1.45

4.2.4 SAR measurement procedure



Channel	Left				Right			
	Cheek		Tilt		Cheek		Tilt	
	Retracted	Extended	Retracted	Extended	Retracted	Extended	Retracted	Extended
Mode 1:								
High			S2(-1.4dB)	S2(-0.4dB)			S2(-2.2dB)	S2(-1.4dB)
Middle	S1(-4dB)	S1(-4dB)	S1(-1.5dB)	S1(-0.5dB)	S1(-5dB)	S1(-5dB)	S1(-2.5dB)	S1(-1.5dB)
Low			S2(-1.3dB)	S2(-0.7dB)			S2(-2.7dB)	S2(-0.6dB)
Mode 2:								
High			S2(-2.7dB)	S2(-1.1dB)				
Middle	S1(-5dB)	S1(-5dB)	S1(-2.5dB)	S1(-1dB)	S1(-6dB)	S1(-6dB)	S1(-5dB)	S1(-5dB)
Low			S2(-2.2dB)	S2(-0.8dB)				

After an area scan has been done at a fixed distance of 8mm from the surface of the phantom on the source side, a 3D scan is set up around the location of the maximum spot SAR. First, a point within the scan area is visited by the probe and a SAR reading taken at the start of testing. At the end of testing, the probe is returned to the same point and a second reading is taken. Comparison between these start and end readings enables the power drift during measurement to be assessed.

Above is the scanning procedure flow chart and table from the IEEE p1528 standard. This is the procedure for which all compliant testing should be carried out to ensure that all variations of the device position and transmission behaviour are tested.

4.2.5 SARA2 Interpolation and Extrapolation schemes

SARA2 software contains support for both 2D cubic B-spline interpolation as well as 3D cubic B-spline interpolation. In addition, for extrapolation purposes, a general n-th order polynomial fitting routine is implemented following a singular value decomposition algorithm. A 4th order polynomial fit is used by default for data extrapolation, but a linear-logarithmic fitting function can be selected as an option. The polynomial fitting procedures have been tested by comparing the fitting coefficients generated by the SARA2 procedures with those obtained using the polynomial fit functions of Microsoft Excel when applied to the same test input data.

4.2.6 Interpolation of 2D area scan

The 2D cubic B-spline interpolation is used after the initial area scan at fixed distance from the phantom shell wall. The initial scan data are collected with approx. 10mm spatial resolution and spline

interpolation is used to find the location of the local maximum to within a 1mm resolution for positioning the subsequent 3D scanning.

4.2.7 Extrapolation of 3D scan

For the 3D scan, data are collected on a spatially regular 3D grid having (by default) 6.4 mm steps in the lateral dimensions and 3.5 mm steps in the depth direction (away from the source). SARA2 enables full control over the selection of alternative step sizes in all directions.

The digitised shape of the head is available to the SARA2 software, which decides which points in the 3D array are sufficiently well within the shell wall to be 'visited' by the SAR probe. After the data collection, the data are extrapolated in the depth direction to assign values to points in the 3D array closer to the shell wall. A notional extrapolation value is also assigned to the first point outside the shell wall so that subsequent interpolation schemes will be applicable right up to the shell wall boundary.

4.2.8 Interpolation of 3D scan and volume averaging

The procedure used for defining the shape of the volumes used for SAR averaging in the SARA2 software follow the method of adapting the surface of the 'cube' to conform with the curved inner surface of the phantom. This is called, here, the conformal scheme.

For each row of data in the depth direction, the data are extrapolated and interpolated to less than 1mm spacing and average values are calculated from the phantom surface for the row of data over distances corresponding to the requisite depth for 10g and 1g cubes. This results in two 2D arrays of data, which are then cubic B-spline interpolated to sub mm lateral resolution. A search routine then moves an averaging square around through the 2D array and records the maximum value of the corresponding 1g and 10g volume averages. For the definition of the surface in this procedure, the digitized position of the head shell surface is used for measurement in head-shaped phantoms. For measurements in rectangular, box phantoms, the distance between the phantom wall and the closest set of gridded data points is entered into the software. For measurements in box-shaped phantoms, this distance is under the control of the user. The effective distance must be greater than 2.5mm as this is the tip-sensor distance and to avoid interface proximity effects, it should be at least 5mm. A value of 6 or 8mm is recommended. This distance is called **dbe**.

For automated measurements inside the head, the distance cannot be less than 2.5mm, which is the radius of the probe tip and to avoid interface proximity effects, a minimum clearance distance of x mm is retained. The actual value of dbe will vary from point to point depending upon how the spatially regular

3D grid points fit within the shell. The greatest separation is when a grid point is just not visited due to the probe tip dimensions. In this case the distance could be as large as the step-size plus the minimum clearance distance (i.e with x=5 and a step size of 3.5, dbe will be between 3.5 and 8.5mm). The default step size (dstep) used is 3.5mm, but this is under user-control. The compromise is with time of scan, so it is not practical to make it much smaller or scan times become long and power-drop influences become larger.

The robot positioning system specification for the repeatability of the positioning (dss) is +/- 0.04mm.

The phantom shell is made by an industrial moulding process from the CAD files of the SAM shape, with both internal and external moulds. For the upright phantoms, the external shape is subsequently digitized on a Mitutoyo CMM machine (Euro an ultrasonic sensor indicate that the shell thickness (dph) away from the ear is 2.0 +/- 0.1mm. The ultrasonic measurements were calibrated using additional mechanical measurements on available cut surfaces of the phantom shells. See support document IXS-020x.

For the upright phantom, the alignment is based upon registration of the rotation axis of the phantom on its 253mm diameter baseplate bearing and the position of the probe axis when commanded to go to the axial position. A laser alignment tool is provided (procedure detailed elsewhere). This enables the registration of the phantom tip (dmis) to be assured to within approx. 0.2mm. This alignment is done with reference to the actual probe tip after installation and probe alignment. The rotational positioning of the phantom is variable – offering advantages for special studies, but locating pins ensure accurate repositioning at the principal positions (LH and RH ears).

4.2.9 Probe anisotropy and boundary proximity influence correction software (Virtual Probe Miniaturization VPM software)

Indexsar Report IXS0223 provides a background to the factors affecting measurements at high frequencies when using SAR probes of size 8 – 5mm tip diameter. Although the Indexsar probes are at the smaller end of this range, SAR probes are not isotropic in 5GHz phantom field gradients and additional precautions have to be taken in measurements. The following measures are recommended:

- 1) At >5GHz, the SAR field decays to 1/e of its value within 3-4mm of the surface of a phantom with a source adjacent. So, measurements are significantly affected by small errors in the separation distances employed between the probe and the phantom surface. The distance between the probe tip and the plane of the sensors should be allowed for using the same value as that declared in the probe

calibration document. Distances between the probe tip and phantom surface should be measured accurately to 0.1mm. The best way to assure this is to use the robot to position the probe in light contact with the phantom wall and then to withdraw the probe by the selected amount under robot control.

2) The preferred test geometry at 5GHz is for testing at the bottom of an open phantom. If tests at the side of a phantom are performed, it will be necessary to apply VPM corrections as described below. In either case, careful monitoring of probe spacing from the phantom is required. Probe isotropy is improved for measuring fields polarized either normal to or parallel to the probe axis. If the source polarization is known, this arrangement should be established, if possible.

3) The probe calibration factors including boundary correction terms should be carefully entered from the calibration document. The probe calibration factors require that the probe be oriented in a known rotational position. The red spot on the Indexsar probe should be aligned facing away from the robot arm.

4) The latest SARA2 software (VPM editions) contain support for correcting for probe anisotropy in strong field gradients and include a procedure for correcting for boundary proximity influences. As noted above, the probe has to be oriented in a given rotational position and some familiarity with the new measurement procedures is necessary. The calculations can be performed either with or without the extended correction schemes applied.

5) If boundary corrections are used, it may be preferable to go rather closer to the phantom surface than is usually recommended and to perform scans using small steps between the measurement planes so that good data on the SAR profiles are collected within the first 10mm of the phantom depth.

5 CHARACTERISTICS OF THE TEST

5.1 Applicable Limit Regulations

47CFR § 2.1093: Radiofrequency Radiation Exposure Evaluation: Portable Devices

FCC OET Bulletin 65(Edition 97-01), Supplement C(Edition 01-01): Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

It specifies the maximum exposure limit of **1.6 W/kg** as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

5.2 Applicable Measurement Standards

IEEE 1528–2003: Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques.

They specify the measurement method for demonstration of compliance with the SAR limits for such equipments.

6 LABORATORY ENVIRONMENT

Table: The Ambient Conditions during SAR Test

Temperature	Min. = 15 ° C, Max. = 30 ° C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

7 TEST RESULTS

7.1 Dielectric Performance

The measured 1-gram averaged SAR values of the device against the head and the body are provided in Tables 1 and 2 respectively. The humidity and ambient temperature of test facility were 40% ~50% and 23.0 °C ~23.6°C respectively. The SAM head phantom (SN 0380 SH and SN 0381 SH) were full of the head tissue simulating liquid. The depth of the body tissue was 15.1cm. The distance between the back of the device and the bottom of the flat phantom is 1.54cm. A base station simulator was used to control the device during the SAR measurement. The phone was supplied with full-charged battery for each measurement.

For head measurement, the device was tested at the lowest, middle and highest frequencies in the transmit band.

Table 1: Dielectric Performance of Head Tissue Simulating Liquid

Temperature: 23.0~23.6° C, humidity: 40~50%.			
/	Frequency	Permittivity ϵ	Conductivity σ (S/m)
Target value	850 MHZ	41.5	0.97
Validation value (August 8)	850 MHZ	41.06	0.961
Target value	1900 MHZ	40.0	1.40
Validation value (August 11)	1900 MHZ	41.09	1.372

For body-worn measurements, the device was tested against flat phantom representing the user body. Under measurement phone was put on in the belt holder.

Table 2: Dielectric Performance of Body Tissue Simulating Liquid

Temperature: 23.0~23.6° C, humidity: 40~50%.			
/	Frequency	Permittivity ϵ	Conductivity σ (S/m)
Target value	850 MHz	55.0	1.05
Validation value (August 10)	850 MHz	54.83	1.028
Target value	1900 MHz	53.3	1.52
Validation value (August 10)	1900 MHz	52.98	1.531

7.2 Summary of Measurement Results (GSM 850MHz and PCS 1900 MHz Band)

Table 3: SAR Values (GSM 850 MHz Band), Measured against the head.

Temperature: 23.0~23.6° C, humidity: 40~50%.	
Limit of SAR (W/kg)	1 g Average
	1.6
Test Case	Measurement Result (W/kg)
	1 g Average
Left head, Touch cheek, Top frequency	0.011
Left head, Touch cheek, Mid frequency	0.005
Left head, Touch cheek, Bottom frequency	0.008
Left head, Tilt 15 Degree, Top frequency	0.007
Left head, Tilt 15 Degree, Mid frequency	0.006
Left head, Tilt 15 Degree, Bottom frequency	0.005
Right head, Touch cheek, Top frequency	0.006
Right head, Touch cheek, Mid frequency	0.007
Right head, Touch cheek, Bottom frequency	0.005
Right head, Tilt 15 Degree, Top frequency	0.006
Right head, Tilt 15 Degree, Mid frequency	0.007
Right head, Tilt 15 Degree, Bottom frequency	0.010

Table 4: SAR Values (GSM 850 MHz Band), Measured against the body

Temperature: 23.0~23.6° C, humidity: 40~50%.	
Limit of SAR (W/kg)	1 g Average
	1.6
Test Case	Measurement Result (W/kg)
	1 g Average
Side , Top frequency	0.173
Side, Mid frequency	0.211
Side, Bottom frequency	0.297

Table 5: SAR Values (PCS 1900 MHz Band), Measured against the head.

Temperature: 23.0~23.6° C, humidity: 40~50%.	
Limit of SAR (W/kg)	1 g Average
	1.6
Test Case	Measurement Result (W/kg)
	1 g Average
Left head, Touch cheek, Top frequency	0.118
Left head, Touch cheek, Mid frequency	0.148
Left head, Touch cheek, Bottom frequency	0.185
Left head, Tilt 15 Degree, Top frequency	0.090
Left head, Tilt 15 Degree, Mid frequency	0.106
Left head, Tilt 15 Degree, Bottom frequency	0.129
Right head, Touch cheek, Top frequency	0.126
Right head, Touch cheek, Mid frequency	0.184
Right head, Touch cheek, Bottom frequency	0.191
Right head, Tilt 15 Degree, Top frequency	0.124
Right head, Tilt 15 Degree, Mid frequency	0.160
Right head, Tilt 15 Degree, Bottom frequency	0.212

Table 4: SAR Values (PCS 1900 MHz Band), Measured against the body

Temperature: 23.0~23.6° C, humidity: 40~50%.	
Limit of SAR (W/kg)	1 g Average
	1.6
Test Case	Measurement Result (W/kg)
	1 g Average
Side , Top frequency	0.034
Side, Mid frequency	0.040
Side, Bottom frequency	0.052

7.3 Conclusion

Localized Specific Absorption Rate (SAR) of this portable wireless device has been measured in all cases requested by the relevant standards cited in Clause 5.2 of this report. Maximum localized SAR is **below** exposure limits specified in the relevant standards cited in Clause 5.1 of this test report.

8 Measurement Uncertainty

No	Uncertainty Component	Type	Uncertainty Value (%)	Probability Distribution	k	c _i	Standard Uncertainty (%) u _i (%)	Degree of freedom V _{eff} or v
Measurement System								
1	—Probe Calibration	B	3.6	N	1	1	3.60	∞
2	—Axial isotropy	B	4.23	R	$\sqrt{3}$	$\sqrt{1-cp}$	0.00	∞
3	—Hemispherical Isotropy	B	10.7	R	$\sqrt{3}$	\sqrt{cp}	6.18	∞
4	—Boundary Effect	B	1.7	R	$\sqrt{3}$	1	0.98	∞
5	—Linearity	B	2.98	R	$\sqrt{3}$	1	1.69	∞
6	—System Detection Limits	B	0.00	R	$\sqrt{3}$	1	0.00	∞
7	—Readout Electronics	B	0.00	N	1	1	0.00	∞
8	—Response Time	B	0.00	R	$\sqrt{3}$	1	0.00	∞
9	—Integration Time	B	0.00	R	$\sqrt{3}$	1	0.00	∞
10	—RF Ambient Conditions	B	0.00	R	$\sqrt{3}$	1	0.00	∞
11	—Probe Position Mechanical tolerance	B	1.14	R	$\sqrt{3}$	1	0.33	∞
12	—Probe Position with respect to Phantom Shell	B	2.86	R	$\sqrt{3}$	1	0.83	∞
13	—Extrapolation, Interpolation and Integration Algorithms for Max. SAR evaluation	B	3.6	R	$\sqrt{3}$	1	2.08	∞
	Uncertainties of the DUT							
14	—Position of the DUT	A	0.00	N	1	1	0.00	0
15	—Holder of the DUT	A	0.00	N	1	1	0.00	0
16	—Output Power Variation – SAR drift measurement	B	5.0	R	$\sqrt{3}$	1	2.89	∞



No. SAR05-010

Phantom and Tissue Parameters								
17	—Phantom Uncertainty(shape and thickness tolerances)	B	1.43	R	$\sqrt{3}$	1	0.83	∞
18	—Liquid Conductivity Target – tolerance	B	5.0	R	$\sqrt{3}$	0.7	2.02	∞
19	—Liquid Conductivity – measurement Uncertainty)	B	2.0	R	$\sqrt{3}$	0.7	0.81	∞
20	—Liquid Permittivity Target tolerance	B	5.0	R	$\sqrt{3}$	0.6	1.73	∞
21	—Liquid Permittivity – measurement uncertainty	B	1.0	R	$\sqrt{3}$	0.6	0.35	∞
Combined Standard Uncertainty				RSS			$\pm 8.95\%$	
Expanded uncertainty (Confidence interval of 95 %)				K= 2.003935			$\pm 17.9\%$	

9 MAIN TEST INSTRUMENTS

No.	EQUIPMENT	TYPE	Due Date
1	E-Field SAR Probe	IXP-050 (SN 0177)	2006-03-23
2	Six-axis AC Servo industrial robot	RV-2A (SN AN406018)	2006-03-23
3	Mobile Phone Tester	4405 (SN 0811211)	2006-03-23
4	System Validation Dipole 1900MHZ	IXD-080 (SN 0112)	2006-03-23
5	System Validation Dipole 850MHZ	IXD-090 (SN 0093)	2006-03-23
6	Probe Amplifier and PC Interface	IFA-010 (SN 0027)	2006-03-23
7	SAM Head Phantom	SN 0380 SH	2006-03-23
8	SAM Head Phantom	SN 0381 SH	2006-03-23
9	Box Phantom	IXB-070	2006-03-23



No. SAR05-010

ANNEX A

of

ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR05_010

Advanced Wireless Group Limited

850/1900 Dual mode handset

Accreditation Certificate

This Annex consists of 2 pages

Date of Report: 2005-8-12





No. SAR05-010



**ACCREDITATION CERTIFICATE
OF CHINA NATIONAL ACCREDITATION BOARD
FOR LABORATORIES
(No.L1659)**

This is to certify that

Shenzhen Electronic Product Quality Testing Center
Electronic Testing Building, Shahe Road, Xili, Nanshan District,
Shenzhen, Guangdong, China

has been assessed and proved to be in compliance with CNAL/AC01:
2003 Accreditation Criteria for Testing and Calibration Laboratories
(identical to ISO/IEC17025: 1999 *General Requirements for the
Competence of Testing and Calibration Laboratories*).

Accreditation scope of the laboratory is listed in the attachment.

Date of Issue: 2004.10.09

Date of Expiry: 2009.10.08

魏昊

Wei Hao

Secretary General of CNAL



No. SAR05-010

ANNEX B
of
ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR
HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR05_010

Advanced Wireless Group Limited

850/1900 Dual mode handset

Type Name: BP118

Hardware Version: BP138 rev.0.1 150405

Software Version: E1ESPZ0108002

TEST LAYOUT

This Annex consists of 5 pages

Date of Report: 2005-8-12





Fig.1 SARA2 System Test Layout

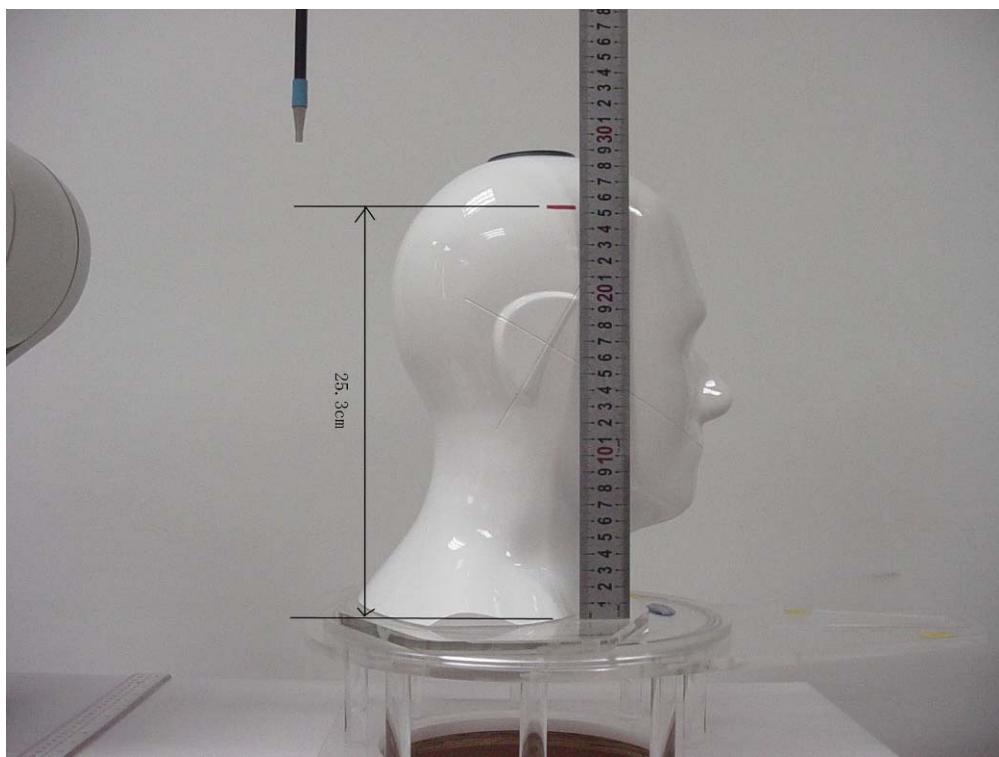


Fig.2 The depth of head tissue in SAM



Fig.3 EUT Left Head Touch Cheek Position



Fig.4 EUT Left Head Tilt15 Position



Fig.5 EUT Right Head Touch Cheek Position



Fig.6 EUT Right Head Tilt15 Position

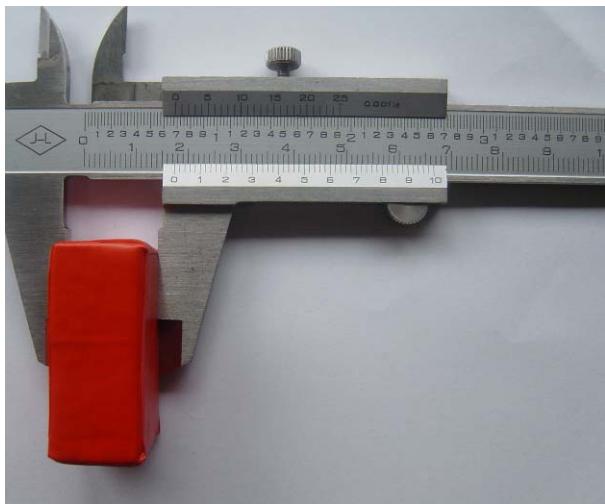


Fig.7 spacer 1.54cm



Fig.8 Side Position

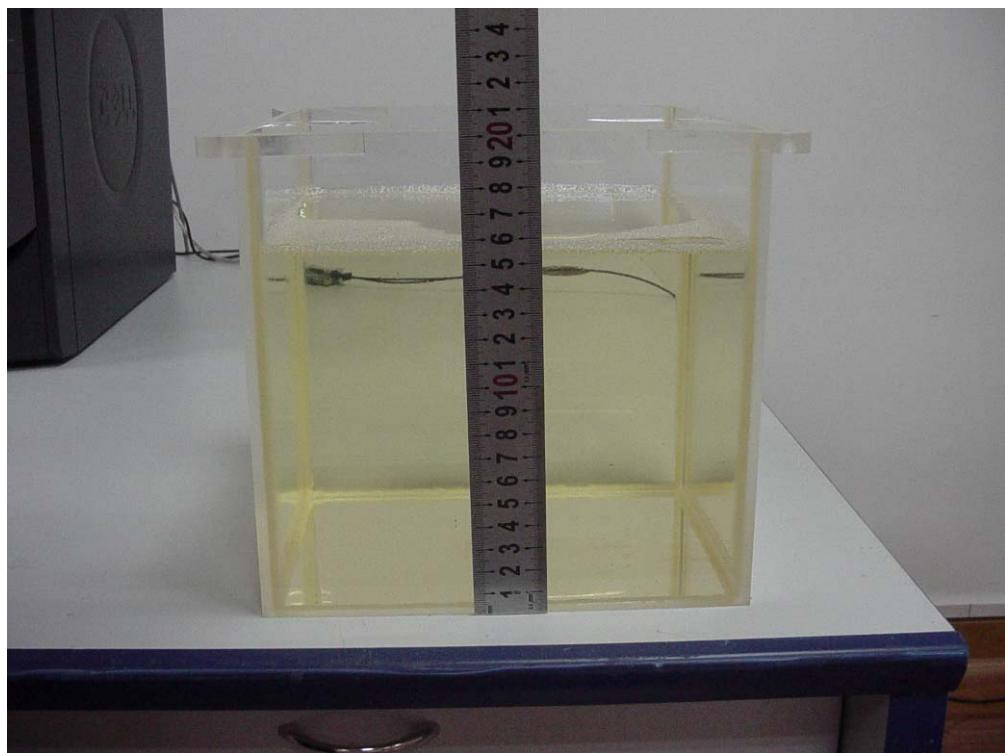


Fig.9 the depth of body tissue



ANNEX C
of
ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR
HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR05_010

Advanced Wireless Group Limited

850/1900 Dual mode handset

Type Name: BP118

Hardware Version: BP138 rev.0.1 150405

Software Version: E1ESPZ0108002

Sample Photographs

This Annex consists of 3 pages

Date of Report: 2005-8-12



No. SAR05-010

1. Photograph of the Equipment under Test

1.1. Appearance







ANNEX D

of

ShenZhen Electronic Product Quality Testing Center

CONFORMANCE TEST REPORT FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SAR05_010

Advanced Wireless Group Limited

850/1900 Dual mode handset

Type Name: BP118

**Hardware Version: BP138 rev.0.1 150405
Software Version: E1ESPZ0108002**

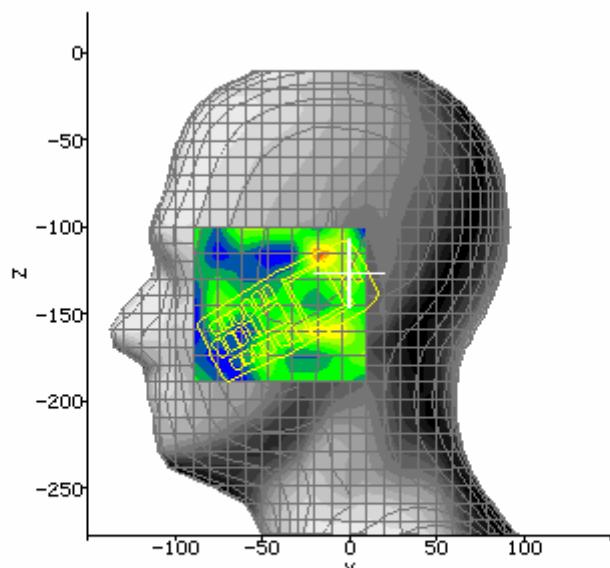
Graph Test Results

**This Annex consists of 31 pages
Date of Report: 2005-8-12**



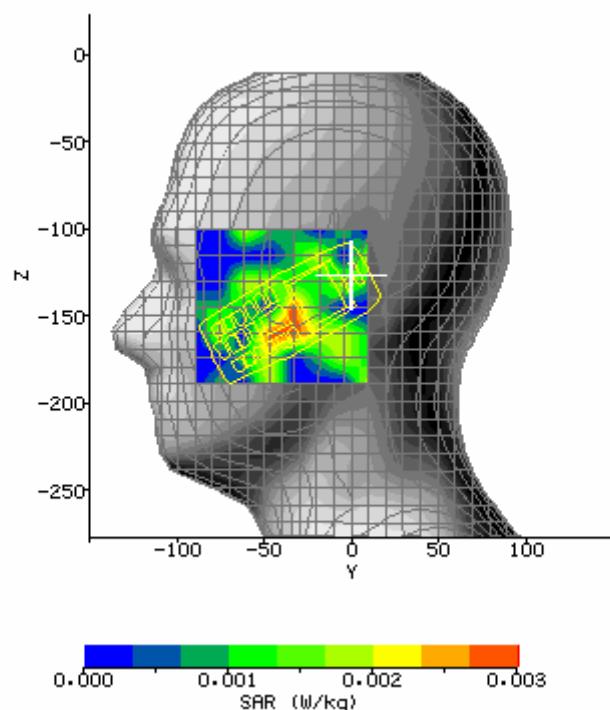
SAR Test GSM 850 LH_TouchCheek (Bottom Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-8 20:13:25: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850LH_TouchCheek_B.txt	Probe Serial Number:	0177
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.06
Relative Humidity:	42%	Conductivity:	0.961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-48.57 mm
DUT Position:	AWG_BP118_850LH_TouchCheek_B	Max SAR Z-axis Location:	-100.00 mm
Antenna Configuration:	build inside	Max E Field:	3.27 V/m
Test Frequency:	850MHz	SAR 1g:	0.008 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.005 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.003 W/kg
Type of Modulation:	GMSK	SAR End:	0.003 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-3.71 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



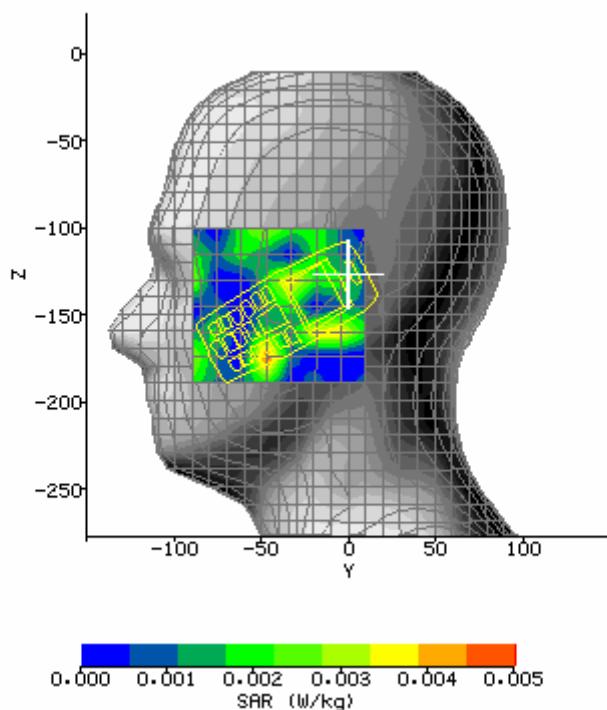
SAR Test GSM 850 LH_TouchCheek (Middle Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-8 20:31:26: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850LH_TouchCheek_M.txt	Probe Serial Number:	0177
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.06
Relative Humidity:	43%	Conductivity:	0.961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-31.43 mm
DUT Position:	AWG_BP118_850LH_TouchCheek_M	Max SAR Z-axis Location:	-154.00 mm
Antenna Configuration:	build inside	Max E Field:	2.73 V/m
Test Frequency:	850MHz	SAR 1g:	0.005 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.005 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.001 W/kg
Type of Modulation:	GMSK	SAR End:	0.001 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-0.28 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



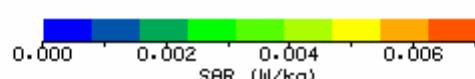
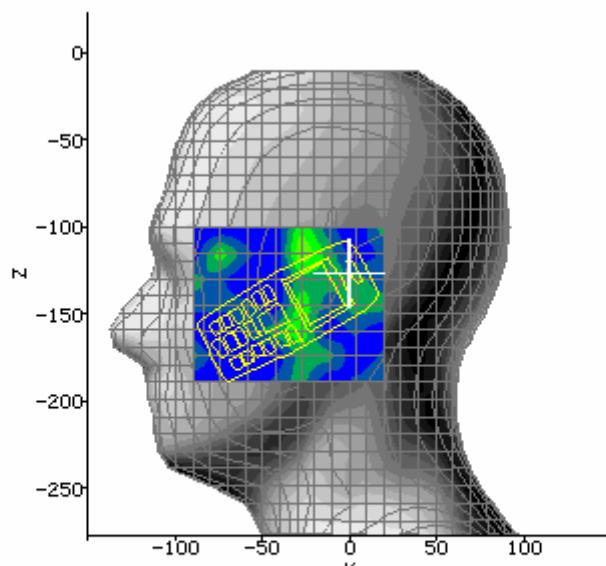
SAR Test GSM 850 LH_TouchCheek (Top Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-8 20:45:44: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850LH_TouchCheek_T.txt	Probe Serial Number:	0177
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.06
Relative Humidity:	43%	Conductivity:	0.961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-47.14 mm
DUT Position:	AWG_BP118_850LH_TouchCheek_T	Max SAR Z-axis Location:	-100.00 mm
Antenna Configuration:	build inside	Max E Field:	3.00 V/m
Test Frequency:	850MHz	SAR 1g:	0.011 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.006 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.002 W/kg
Type of Modulation:	GMSK	SAR End:	0.002 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-4.13 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



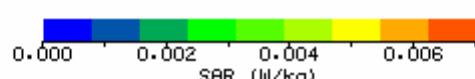
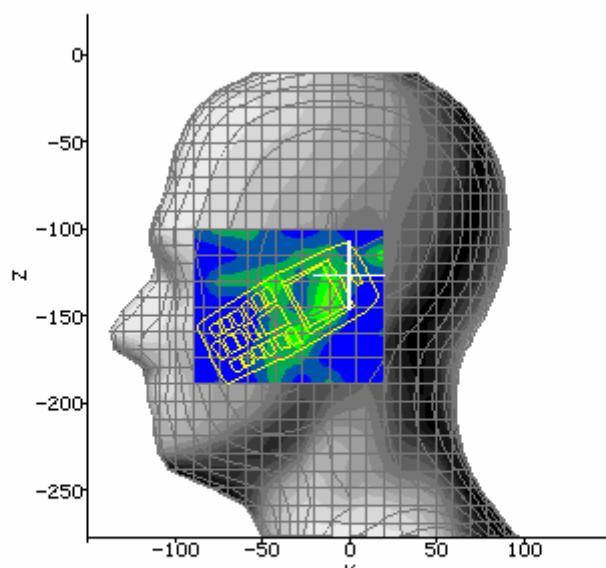
SAR Test GSM 850 LH_Tilt15 (Bottom Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-9 9:23:38: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850LH_Tilt15_B.txt	Probe Serial Number:	0177
Ambient Temperature:	23.4°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.06
Relative Humidity:	43%	Conductivity:	0.961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-27.76 mm
DUT Position:	AWG_BP118_850LH_Tilt15_B	Max SAR Z-axis Location:	-104.33 mm
Antenna Configuration:	build inside	Max E Field:	2.68 V/m
Test Frequency:	850MHz	SAR 1g:	0.005 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.004 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.001 W/kg
Type of Modulation:	GMSK	SAR End:	0.001 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	3.68 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



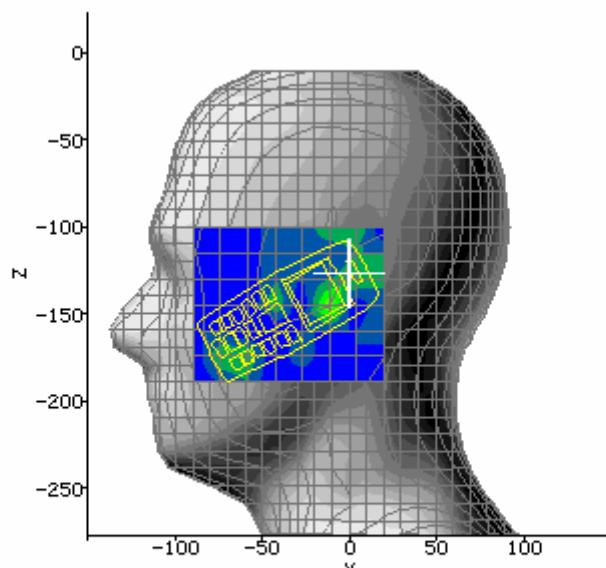
SAR Test GSM 850 LH_Tilt15 (Middle Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-9 9:37:48: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850LH_Tilt15_M.txt	Probe Serial Number:	0177
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.06
Relative Humidity:	43%	Conductivity:	0.961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-5.48 mm
DUT Position:	AWG_BP118_850LH_Tilt15_M	Max SAR Z-axis Location:	-136.67 mm
Antenna Configuration:	build inside	Max E Field:	2.58 V/m
Test Frequency:	850MHz	SAR 1g:	0.006 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.004 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.001 W/kg
Type of Modulation:	GMSK	SAR End:	0.001 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	2.22 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



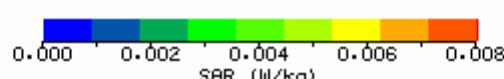
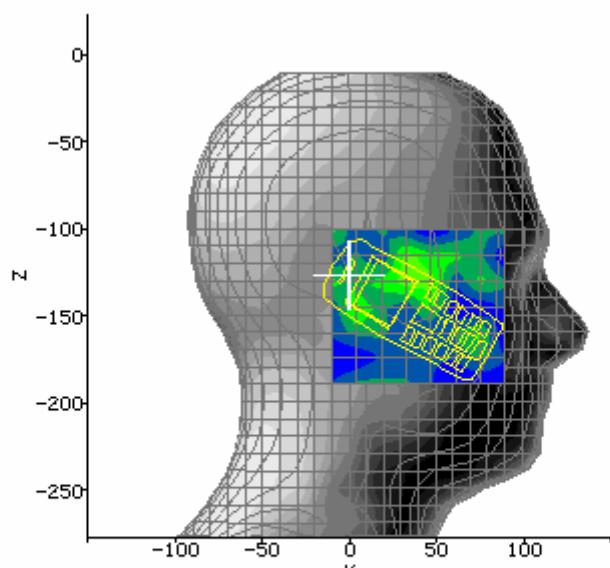
SAR Test GSM 850 LH_Tilt15 (Top Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-9 10:02:36: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850LH_Tilt15_T.txt	Probe Serial Number:	0177
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.06
Relative Humidity:	44%	Conductivity:	0.961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	0.19 mm
DUT Position:	AWG_BP118_850LH_Tilt15_T	Max SAR Z-axis Location:	-105.33 mm
Antenna Configuration:	build inside	Max E Field:	3.04 V/m
Test Frequency:	850MHz	SAR 1g:	0.007 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.005 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.001 W/kg
Type of Modulation:	GMSK	SAR End:	0.001 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	2.99 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



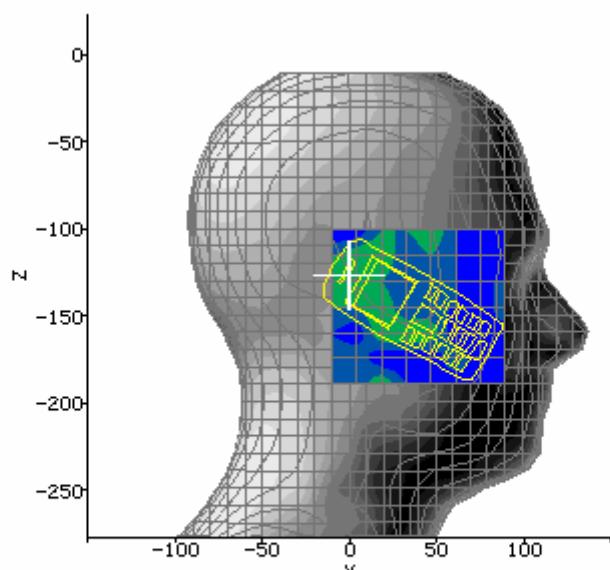
SAR Test GSM 850 RH_TouchCheek (Bottom Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-8 17:21:58: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850RH_TouchCheek_B.txt	Probe Serial Number:	0177
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.06
Relative Humidity:	44%	Conductivity:	0961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis Location:	26.48 mm
DUT Position:	AWG_BP118_850RH_TouchCheek_B	Max SAR Z-axis Location:	-109.50 mm
Antenna Configuration:	build inside	Max E Field:	2.73 V/m
Test Frequency:	850MHz	SAR 1g:	0.005 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.004 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.003 W/kg
Type of Modulation:	GMSK	SAR End:	0.003 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-1.08 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



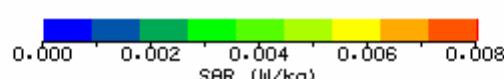
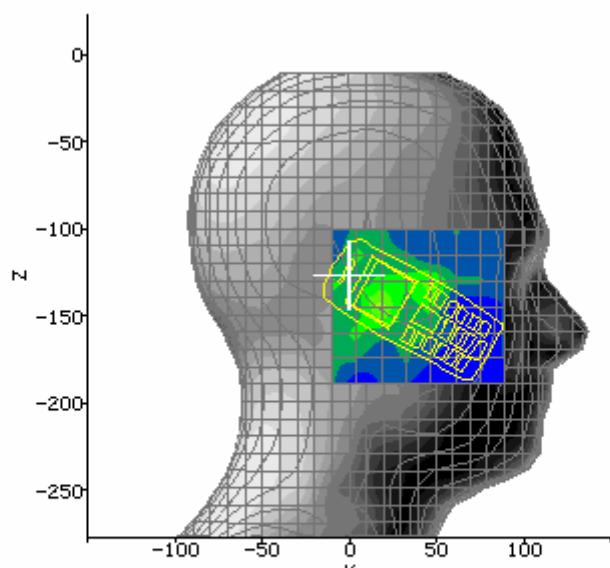
SAR Test GSM 850 RH_TouchCheek (Middle Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-8 17:35:54: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850RH_TouchCheek_M.txt	Probe Serial Number:	0177
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.06
Relative Humidity:	43%	Conductivity:	0.961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis Location:	33.62 mm
DUT Position:	AWG_BP118_850RH_TouchCheek_M	Max SAR Z-axis Location:	-89.33 mm
Antenna Configuration:	build inside	Max E Field:	2.96 V/m
Test Frequency:	850MHz	SAR 1g:	0.007 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.005 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.003 W/kg
Type of Modulation:	GMSK	SAR End:	0.003 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	3.31 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



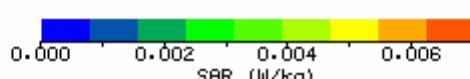
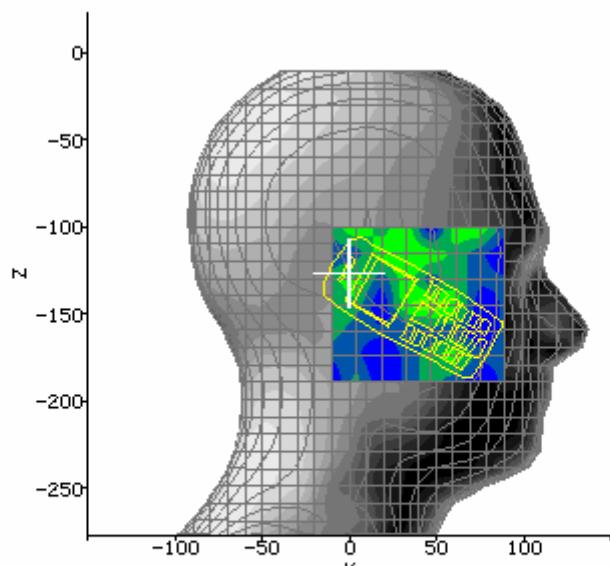
SAR Test GSM 850 RH_TouchCheek (Top Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-8 17:49:55: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850RH_TouchCheek_T.txt	Probe Serial Number:	0177
Ambient Temperature:	23.4°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.06
Relative Humidity:	42%	Conductivity:	0.961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis Location:	36.00 mm
DUT Position:	AWG_BP118_850RH_TouchCheek_T	Max SAR Z-axis Location:	-140.50 mm
Antenna Configuration:	build inside	Max E Field:	2.76 V/m
Test Frequency:	850MHz	SAR 1g:	0.006 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.005 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.003 W/kg
Type of Modulation:	GMSK	SAR End:	0.003 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-1.47 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



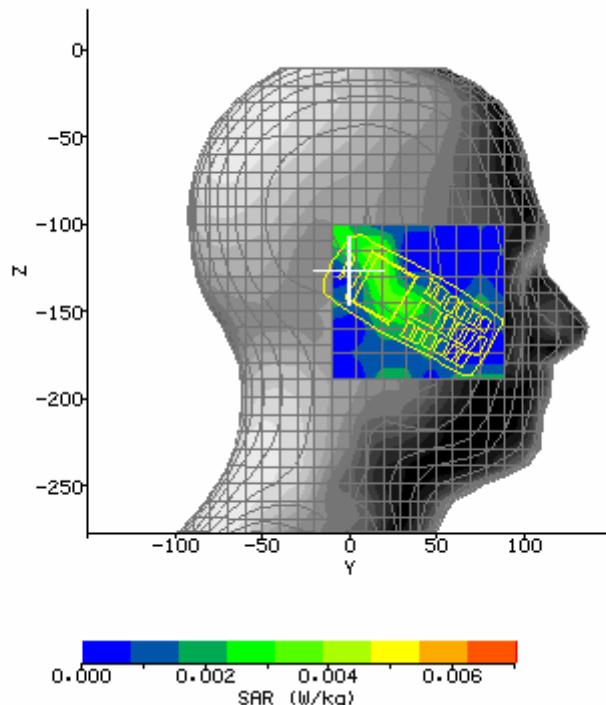
SAR Test GSM 850 RH_Tilt15 (Bottom Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-8 18:46:08: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850RH_Tilt15_B.txt	Probe Serial Number:	0177
Ambient Temperature:	23.6°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.06
Relative Humidity:	45%	Conductivity:	0.961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	180°	Max SAR Y-axis Location:	61.81 mm
DUT Position:	AWG_BP118_850RH_Tilt15_B	Max SAR Z-axis Location:	-84.00 mm
Antenna Configuration:	build inside	Max E Field:	2.61 V/m
Test Frequency:	850MHz	SAR 1g:	0.010 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.004 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.002 W/kg
Type of Modulation:	GMSK	SAR End:	0.002 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	3.92 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



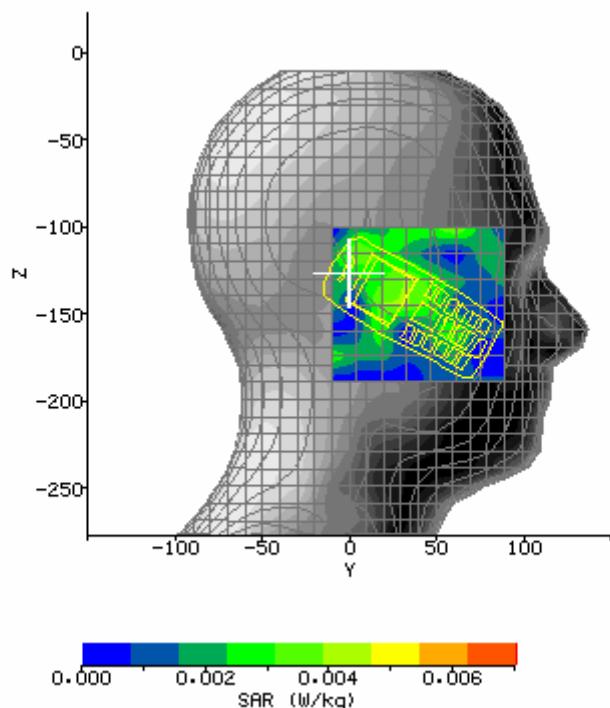
SAR Test GSM 850 RH_Tilt15 (Middle Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-8 18:17:50: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850RH_Tilt15_M.txt	Probe Serial Number:	0177
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.06
Relative Humidity:	45%	Conductivity:	0.961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis Location:	21.81 mm
DUT Position:	AWG_BP118_850RH_Tilt15_M	Max SAR Z-axis Location:	-139.67 mm
Antenna Configuration:	build inside	Max E Field:	2.58 V/m
Test Frequency:	850MHz	SAR 1g:	0.007 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.004 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.002 W/kg
Type of Modulation:	GMSK	SAR End:	0.002 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	2.69 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



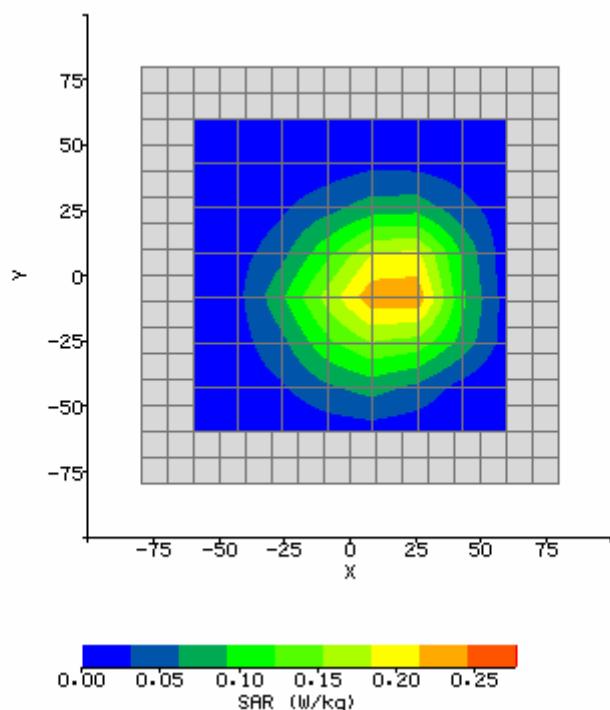
SAR Test GSM 850 RH_Tilt15 (Top Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-8 18:04:27: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850RH_Tilt15_T.txt	Probe Serial Number:	0177
Ambient Temperature:	23.4°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.06
Relative Humidity:	43%	Conductivity:	0.961
Phantom S/No:	Head_380SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis Location:	23.24 mm
DUT Position:	AWG_BP118_850RH_Tilt15_T	Max SAR Z-axis Location:	-121.50 mm
Antenna Configuration:	build inside	Max E Field:	2.65 V/m
Test Frequency:	850MHz	SAR 1g:	0.006 W/kg
Air Factors:	417.2 / 368.0 / 414.8	SAR 10g:	0.004 W/kg
Conversion Factors:	.286 / .286 / .286	SAR Start:	0.002 W/kg
Type of Modulation:	GMSK	SAR End:	0.002 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-3.35 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



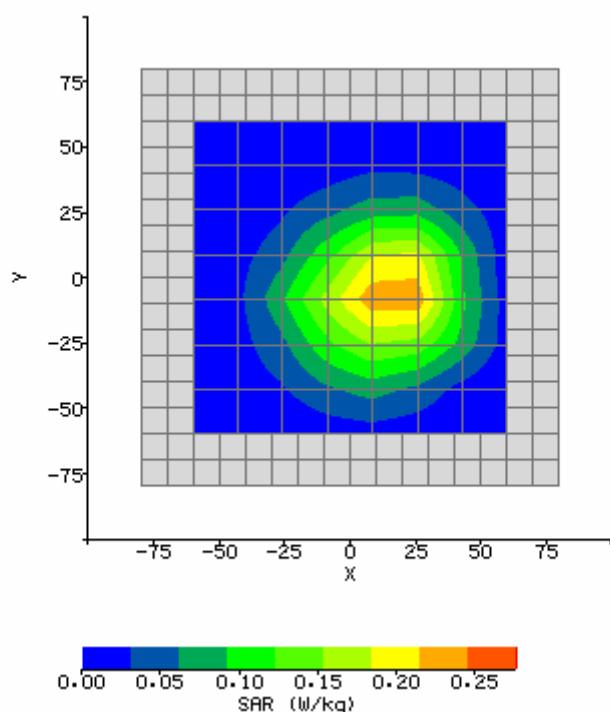
SAR Test GSM 850 Side (Bottom Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-10 17:06:45: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850Body _Side_B.txt	Probe Serial Number:	0177
Ambient Temperature:	23.5°C	Liquid Simulant:	Body tissue
Device Under Test:	AWG	Relative Permittivity:	54.83
Relative Humidity:	44%	Conductivity:	1.028
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis Location:	15.43 mm
DUT Position:	AWG_BP118_850Body _Side_B	Max SAR Y-axis Location:	-5.14 mm
Antenna Configuration:	build inside	Max E Field:	15.71 V/m
Test Frequency:	850MHz	SAR 1g:	0.297 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.197 W/kg
Conversion Factors:	.271 / .271 / .271	SAR Start:	0.074 W/kg
Type of Modulation:	GMSK	SAR End:	0.072 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-2.70%
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



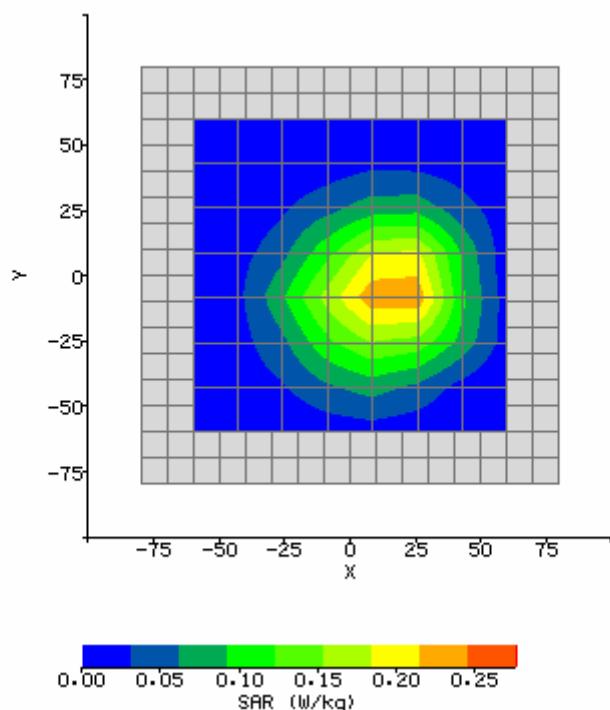
SAR Test GSM 850 Side (Middle Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-10 17:30:50: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850Body _Side_M.txt	Probe Serial Number:	0177
Ambient Temperature:	23.6°C	Liquid Simulant:	Body tissue
Device Under Test:	AWG	Relative Permittivity:	54.83
Relative Humidity:	44%	Conductivity:	1.028
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis Location:	18.86 mm
DUT Position:	AWG_BP118_850Body _Side_M	Max SAR Y-axis Location:	-10.29 mm
Antenna Configuration:	build inside	Max E Field:	13.10 V/m
Test Frequency:	850MHz	SAR 1g:	0.211 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.140 W/kg
Conversion Factors:	.271 / .271 / .271	SAR Start:	0.052 W/kg
Type of Modulation:	GMSK	SAR End:	0.050 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-4.05 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



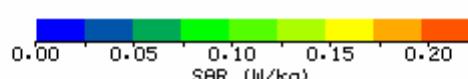
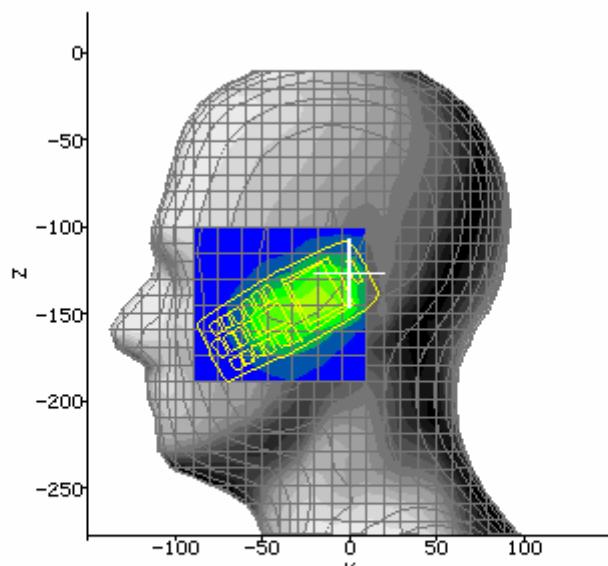
SAR Test GSM 850 Side (Top Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-10 17:49:42: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_850Body _Side_T.txt	Probe Serial Number:	0177
Ambient Temperature:	23.5°C	Liquid Simulant:	Body tissue
Device Under Test:	AWG	Relative Permittivity:	54.83
Relative Humidity:	44%	Conductivity:	1.028
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR X-axis Location:	13.71 mm
DUT Position:	AWG_BP118_850Body _Side_T	Max SAR Y-axis Location:	-5.14 mm
Antenna Configuration:	build inside	Max E Field:	11.94 V/m
Test Frequency:	850MHz	SAR 1g:	0.173 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.114 W/kg
Conversion Factors:	.271 / .271 / .271	SAR Start:	0.038 W/kg
Type of Modulation:	GMSK	SAR End:	0.037 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-1.42 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level5(33dBm)	Extrapolation:	poly4



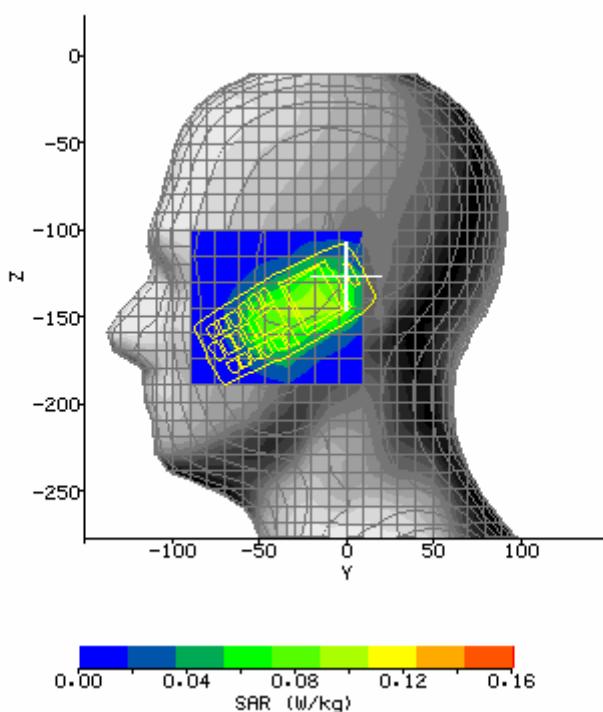
SAR Test PCS 1900 LH_TouchCheek (Bottom Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-11 9:34:44: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900LH_TouchCheek_B.txt	Probe Serial Number:	0177
Ambient Temperature:	23.6°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.09
Relative Humidity:	46%	Conductivity:	1.372
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-7.90 mm
DUT Position:	AWG_BP118_19000LH_TouchCheek_B	Max SAR Z-axis Location:	-142.00 mm
Antenna Configuration:	build inside	Max E Field:	12.16 V/m
Test Frequency:	1900MHz	SAR 1g:	0.185 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.112 W/kg
Conversion Factors:	.326 / .326 / .326	SAR Start:	0.073 W/kg
Type of Modulation:	GMSK	SAR End:	0.069 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-4.94 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



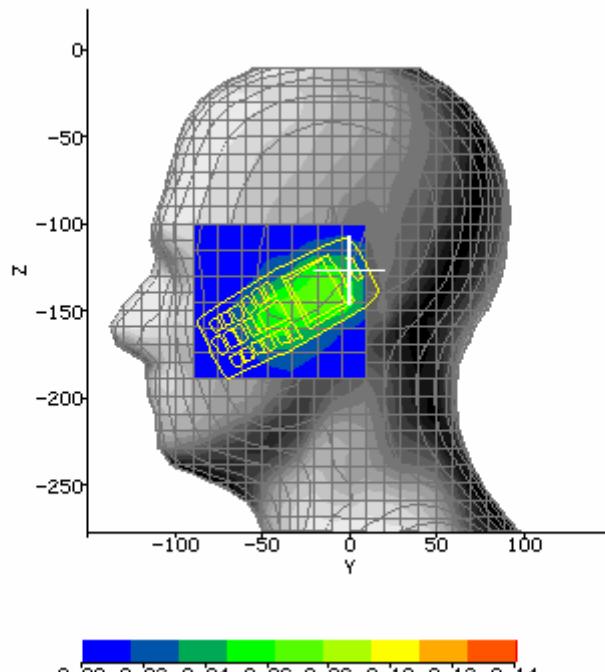
SAR Test PCS 1900 LH_TouchCheek (Middle Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-11 9:53:15: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900LH_TouchCheek_M.txt	Probe Serial Number:	0177
Ambient Temperature:	23.6°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.09
Relative Humidity:	45%	Conductivity:	1.372
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-13.24 mm
DUT Position:	AWG_BP118_19000LH_TouchCheek_M	Max SAR Z-axis Location:	-142.00 mm
Antenna Configuration:	build inside	Max E Field:	10.64 V/m
Test Frequency:	1900MHz	SAR 1g:	0.148 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.088 W/kg
Conversion Factors:	.326 / .326 / .326	SAR Start:	0.055 W/kg
Type of Modulation:	GMSK	SAR End:	0.053 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-3.64 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



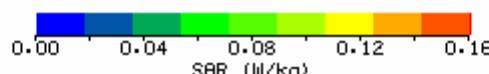
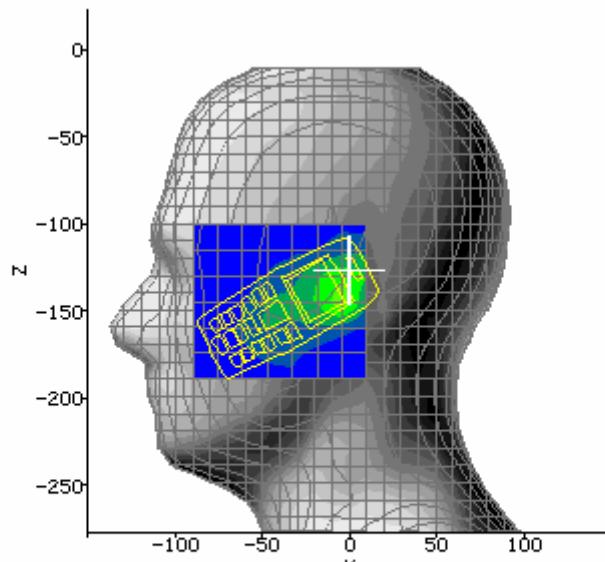
SAR Test PCS 1900 LH_TouchCheek (Top Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-11 10:06:37: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900LH_ TouchCheek_T.txt	Probe Serial Number:	0177
Ambient Temperature:	23.6°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.09
Relative Humidity:	45%	Conductivity:	1.372
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-11.81 mm
DUT Position:	AWG_BP118_19000LH_ _TouchCheek_T	Max SAR Z-axis Location:	-140.50 mm
Antenna Configuration:	build inside	Max E Field:	9.61 V/m
Test Frequency:	1900MHz	SAR 1g:	0.118 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.069 W/kg
Conversion Factors:	.326 / .326 / .326	SAR Start:	0.041 W/kg
Type of Modulation:	GMSK	SAR End:	0.040 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-2.39 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



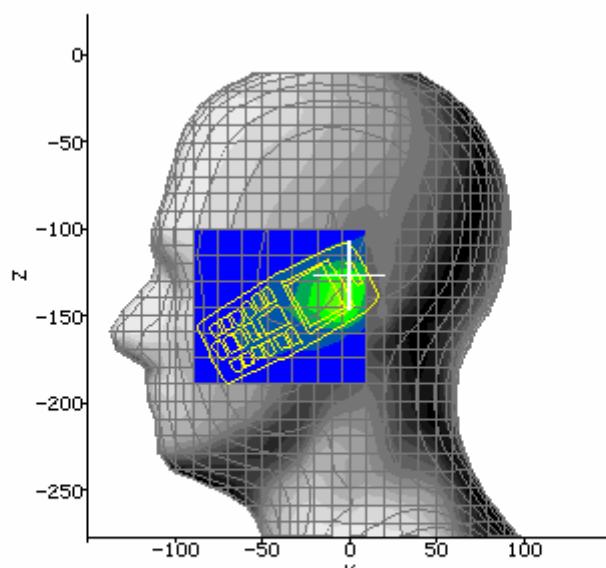
SAR Test PCS 1900 LH_Tilt15 (Bottom Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-11 10:51:47: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900LH_ Tilt15_B.txt	Probe Serial Number:	0177
Ambient Temperature:	23.6°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.09
Relative Humidity:	45%	Conductivity:	1.372
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-1.81 mm
DUT Position:	AWG_BP118_19000LH_ _Tilt15_B	Max SAR Z-axis Location:	-139.00 mm
Antenna Configuration:	build inside	Max E Field:	10.41 V/m
Test Frequency:	1900MHz	SAR 1g:	0.129 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.073 W/kg
Conversion Factors:	.326 / .326 / .326	SAR Start:	0.051 W/kg
Type of Modulation:	GMSK	SAR End:	0.049 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-3.96 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



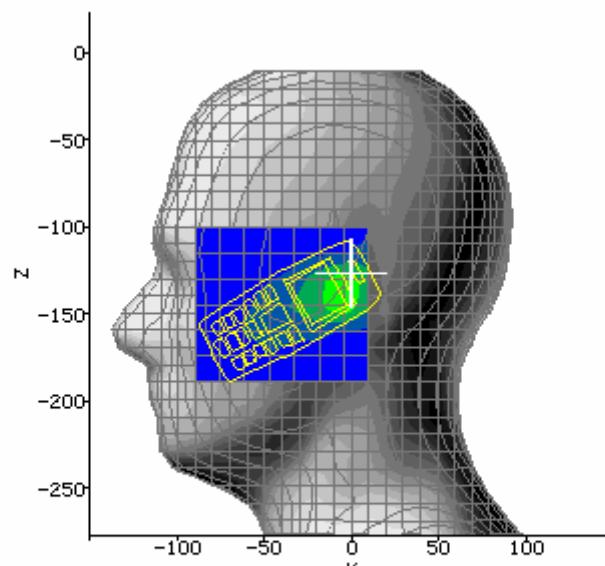
SAR Test PCS 1900 LH_Tilt15 (Middle Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-11 10:36:52: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900LH_ Tilt15_M.txt	Probe Serial Number:	0177
Ambient Temperature:	23.5°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.09
Relative Humidity:	45%	Conductivity:	1.372
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-1.81 mm
DUT Position:	AWG_BP118_19000LH_ _Tilt15_M	Max SAR Z-axis Location:	-139.00 mm
Antenna Configuration:	build inside	Max E Field:	9.23 V/m
Test Frequency:	1900MHz	SAR 1g:	0.106 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.058 W/kg
Conversion Factors:	.326 / .326 / .326	SAR Start:	0.037 W/kg
Type of Modulation:	GMSK	SAR End:	0.038 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	2.85 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



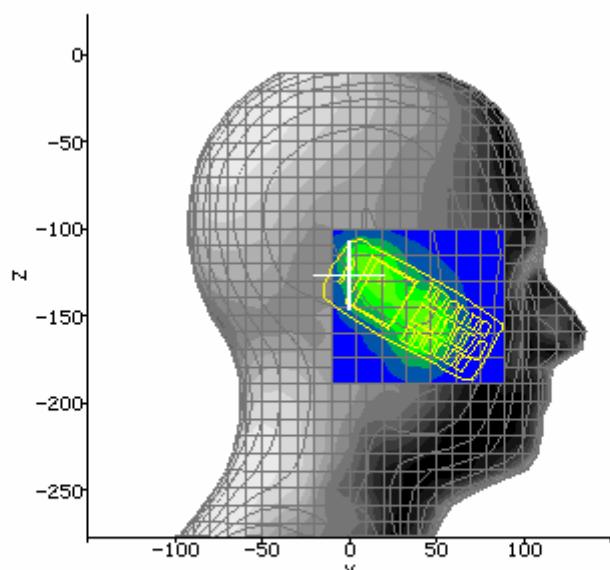
SAR Test PCS 1900 LH_Tilt15 (Top Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-11 10:20:23: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900LH_ Tilt15_T.txt	Probe Serial Number:	0177
Ambient Temperature:	23.6°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.09
Relative Humidity:	46%	Conductivity:	1.372
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.2°C
Phantom Rotation:	0°	Max SAR Y-axis Location:	-7.14 mm
DUT Position:	AWG_BP118_19000LH_ _Tilt15_T	Max SAR Z-axis Location:	-137.50 mm
Antenna Configuration:	build inside	Max E Field:	8.83 V/m
Test Frequency:	1900MHz	SAR 1g:	0.090 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.050 W/kg
Conversion Factors:	.326 / .326 / .326	SAR Start:	0.034 W/kg
Type of Modulation:	GMSK	SAR End:	0.035 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	1.95 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



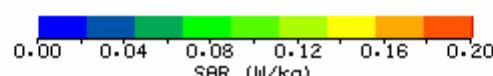
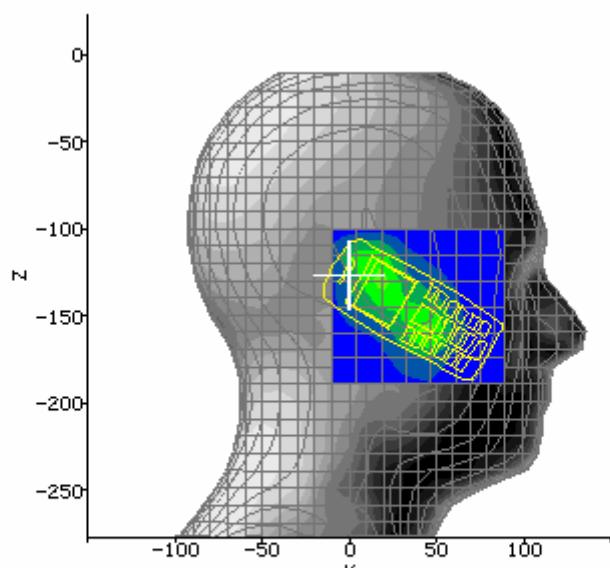
SAR Test PCS 1900 RH_TouchCheek (Bottom Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-11 13:56:04: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900RH_TouchCheek_B.txt	Probe Serial Number:	0177
Ambient Temperature:	23.4°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.09
Relative Humidity:	46%	Conductivity:	1.372
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis Location:	42.86 mm
DUT Position:	AWG_BP118_1900RH_TouchCheek_B	Max SAR Z-axis Location:	-159.33 mm
Antenna Configuration:	build inside	Max E Field:	12.64 V/m
Test Frequency:	1900MHz	SAR 1g:	0.191 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.118 W/kg
Conversion Factors:	.326 / .326 / .326	SAR Start:	0.097 W/kg
Type of Modulation:	GMSK	SAR End:	0.093 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-3.70 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



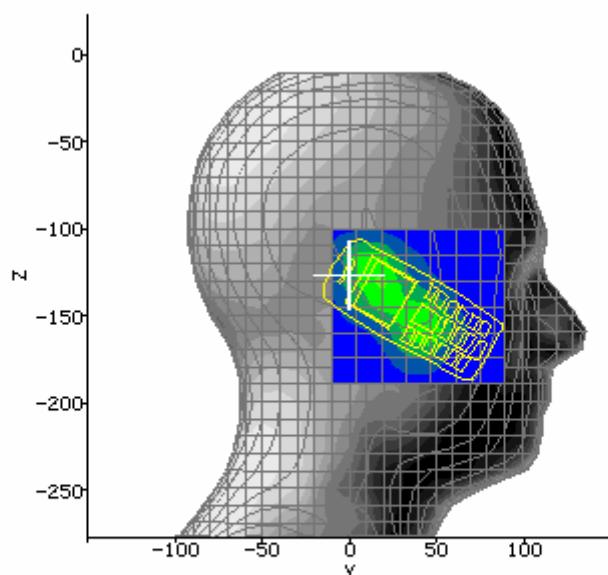
SAR Test PCS 1900 RH_TouchCheek (Middle Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-11 14:09:40: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900RH_TouchCheek_M.txt	Probe Serial Number:	0177
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.09
Relative Humidity:	45%	Conductivity:	1.372
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis Location:	6.48 mm
DUT Position:	AWG_BP118_1900RH_TouchCheek_M	Max SAR Z-axis Location:	-123.17 mm
Antenna Configuration:	build inside	Max E Field:	11.81 V/m
Test Frequency:	1900MHz	SAR 1g:	0.184 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.092 W/kg
Conversion Factors:	.326 / .326 / .326	SAR Start:	0.045 W/kg
Type of Modulation:	GMSK	SAR End:	0.043 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-4.25 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



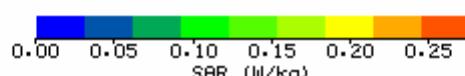
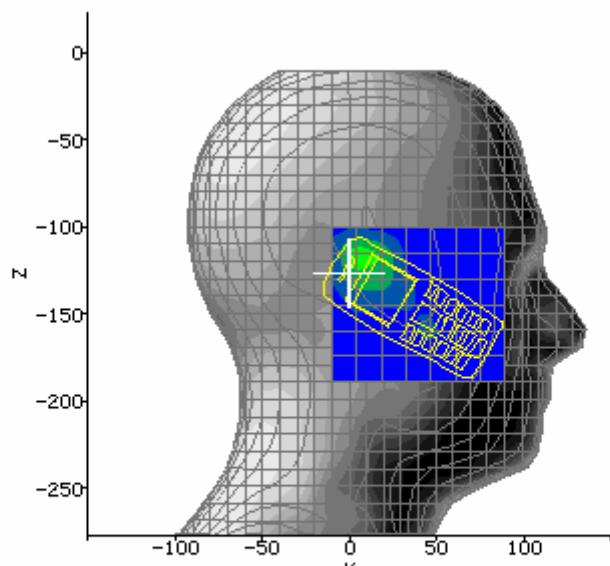
SAR Test PCS 1900 RH_TouchCheek (Top Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-11 14:24:04: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900RH_TouchCheek_T.txt	Probe Serial Number:	0177
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.09
Relative Humidity:	45%	Conductivity:	1.372
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis Location:	11.81 mm
DUT Position:	AWG_BP118_19000RH_TouchCheek_T	Max SAR Z-axis Location:	-124.67 mm
Antenna Configuration:	build inside	Max E Field:	9.91 V/m
Test Frequency:	1900MHz	SAR 1g:	0.126 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.067 W/kg
Conversion Factors:	.326 / .326 / .326	SAR Start:	0.033 W/kg
Type of Modulation:	GMSK	SAR End:	0.032 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-4.06 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



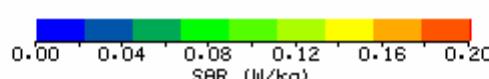
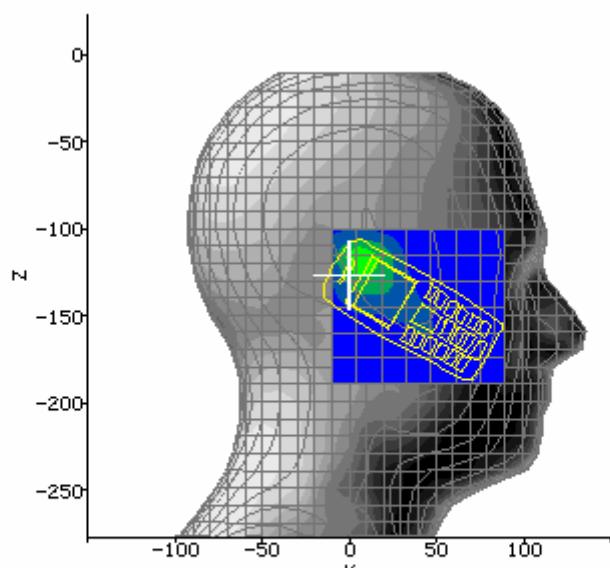
SAR Test PCS 1900 RH_Tilt15 (Bottom Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-11 15:03:57: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900RH_ Tilt15_B.txt	Probe Serial Number:	0177
Ambient Temperature:	23.4°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.09
Relative Humidity:	45%	Conductivity:	1.372
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis Location:	4.67 mm
DUT Position:	AWG_BP118_1900RH _Tilt15_B	Max SAR Z-axis Location:	-121.00 mm
Antenna Configuration:	build inside	Max E Field:	13.71 V/m
Test Frequency:	1900MHz	SAR 1g:	0.212 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.104 W/kg
Conversion Factors:	.326 / .326 / .326	SAR Start:	0.072 W/kg
Type of Modulation:	GMSK	SAR End:	0.072 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	0.64 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



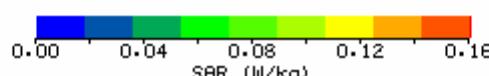
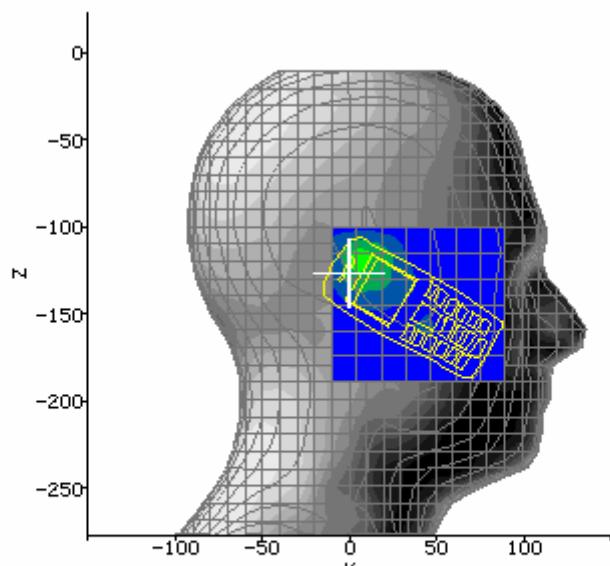
SAR Test PCS 1900 RH_Tilt15 (Middle Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-11 14:49:53: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900RH_ Tilt15_M.txt	Probe Serial Number:	0177
Ambient Temperature:	23.4°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.09
Relative Humidity:	44%	Conductivity:	1.372
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis Location:	10.00 mm
DUT Position:	AWG_BP118_1900RH _Tilt15_M	Max SAR Z-axis Location:	-121.00 mm
Antenna Configuration:	build inside	Max E Field:	11.50 V/m
Test Frequency:	1900MHz	SAR 1g:	0.160 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.078 W/kg
Conversion Factors:	.326 / .326 / .326	SAR Start:	0.052 W/kg
Type of Modulation:	GMSK	SAR End:	0.054 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	2.67 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



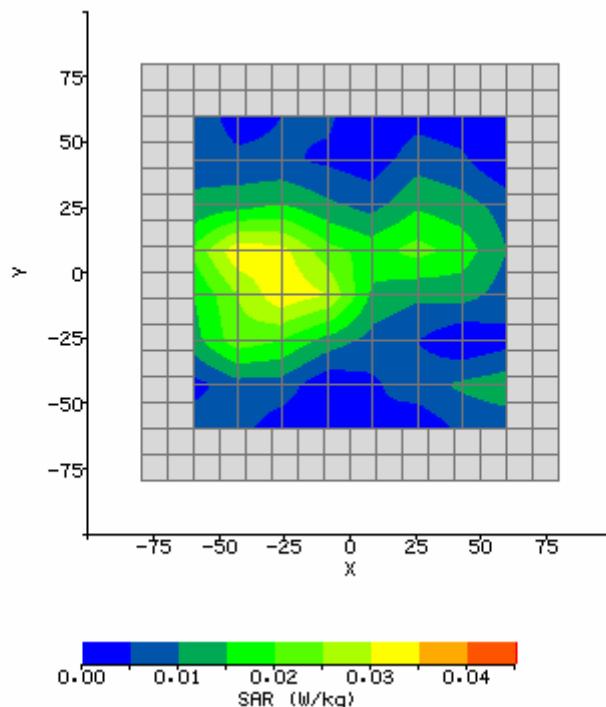
SAR Test PCS 1900 RH_Tilt15 (Top Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-11 14:37:28: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900RH_ Tilt15_T.txt	Probe Serial Number:	0177
Ambient Temperature:	23.3°C	Liquid Simulant:	Head tissue
Device Under Test:	AWG	Relative Permittivity:	41.09
Relative Humidity:	44%	Conductivity:	1.372
Phantom S/No:	Head_381SH.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	180°	Max SAR Y-axis Location:	10.00 mm
DUT Position:	AWG_BP118_19000RH _Tilt15_T	Max SAR Z-axis Location:	-122.50 mm
Antenna Configuration:	build inside	Max E Field:	10.44 V/m
Test Frequency:	1900MHz	SAR 1g:	0.124 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.060 W/kg
Conversion Factors:	.326 / .326 / .326	SAR Start:	0.039 W/kg
Type of Modulation:	GMSK	SAR End:	0.038 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-1.58 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



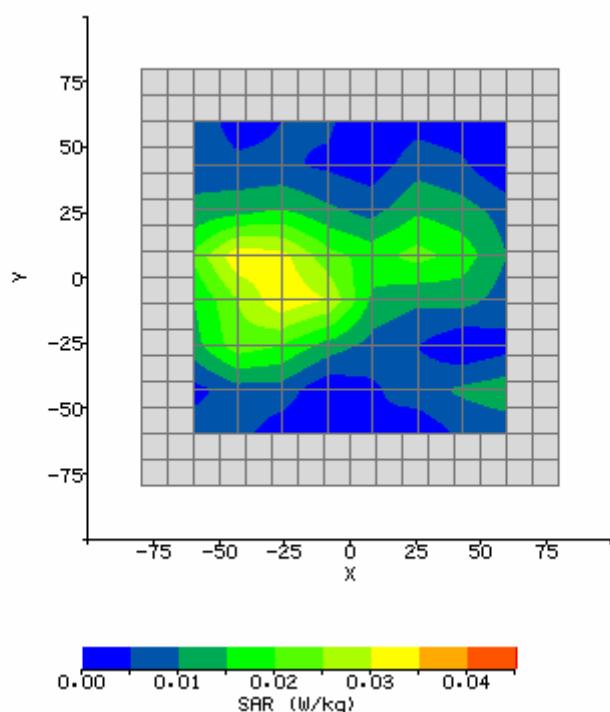
SAR Test PCS 1900 Side (Bottom Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-10 15:23:18: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900Bod y_Side_B.txt	Probe Serial Number:	0177
Ambient Temperature:	23.6°C	Liquid Simulant:	Body tissue
Device Under Test:	AWG	Relative Permittivity:	52.98
Relative Humidity:	45%	Conductivity:	1.531
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-23.81 mm
DUT Position:	AWG_BP118_1900Bod y_Side_B	Max SAR Y-axis Location:	-5.33 mm
Antenna Configuration:	build inside	Max E Field:	5.37 V/m
Test Frequency:	1900MHz	SAR 1g:	0.052 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.035 W/kg
Conversion Factors:	.356 / .356 / .356	SAR Start:	0.010 W/kg
Type of Modulation:		SAR End:	0.010 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-0.90 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



SAR Test PCS 1900 Side (Middle Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-10 15:49:35: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900Bod y_Side_M.txt	Probe Serial Number:	0177
Ambient Temperature:	23.6°C	Liquid Simulant:	Body tissue
Device Under Test:	AWG	Relative Permittivity:	52.98
Relative Humidity:	44%	Conductivity:	1.531
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-32.76 mm
DUT Position:	AWG_BP118_1900Bod y_Side_M	Max SAR Y-axis Location:	10.67 mm
Antenna Configuration:	build inside	Max E Field:	5.02 V/m
Test Frequency:	1900MHz	SAR 1g:	0.040 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.028 W/kg
Conversion Factors:	.356 / .356 / .356	SAR Start:	0.007 W/kg
Type of Modulation:	GMSK	SAR End:	0.007 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	4.03 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4



SAR Test PCS 1900 Side (Top Channel)

System / software:	SARA2 / 2.39 VPM	Input Power Drift:	
Date / Time:	2005-8-10 16:20:54: 2.39 VPM	DUT Battery Model/No:	
Filename:	AWG_BP118_1900Bod y_Side_T.txt	Probe Serial Number:	0177
Ambient Temperature:	23.5°C	Liquid Simulant:	Body tissue
Device Under Test:	AWG	Relative Permittivity:	52.98
Relative Humidity:	44%	Conductivity:	1.531
Phantom S/No:	HeadBox75mm.csv	Liquid Temperature:	23.1°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-29.14 mm
DUT Position:	AWG_BP118_1900Bod y_Side_T	Max SAR Y-axis Location:	0.57 mm
Antenna Configuration:	build inside	Max E Field:	4.67 V/m
Test Frequency:	1900MHz	SAR 1g:	0.034 W/kg
Air Factors:	417 / 368 / 414	SAR 10g:	0.022 W/kg
Conversion Factors:	.356 / .356 / .356	SAR Start:	0.006 W/kg
Type of Modulation:	GMSK	SAR End:	0.006 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-3.53 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	20/05/05
Input Power Level:	Level0(30dBm)	Extrapolation:	poly4

