SAR Test Report

Product Name : WCDMA mobile phone

Model No. : Elite 4.7 HD

FCC ID : YHLBLUELITE47HD

Prepared By: : Inventec Appliances(Pudong) Corporation

Address: : No.789 Pu Xing Road, Shanghai, PRC

Date of Receipt : 2013.02.20

Date of Test : 2013.03.05-2013.03.09

Report No. : 20130220SAR-FCC





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Test Report Certification

Date of Issue : Mar.09.2013

Report No. : 20130220SAR

WCDMA mobile phone **Product Name**

Elite 4.7 HD Model No.

Trade Name BLU

CT Asia (HK) Ltd Applicant

Unit 1309-11, 13/F,9 Wing Hong Street, Cheung Sha Wan, Address

Kowloon, Hong Kong

FCC 47 CFR Part2 (2.1093) Standard

> IEEE C95.1-1999 IEEE 1528-2003

FCC OET Bulletin 65 supplement C

FCC KDB 648474 D01 v01r05

FCC KDB 447498 D01 v05 FCC KDB 941225 D03 v01

FCC KDB 248227 D01 v01r02

Test Result : Complied

The Test Results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Inventec Appliances(Pudong) Corporation

Documented By

, Mar.09.2013 Alice Lee/Engineer Tested By

Jely Herry , Mar. 09. 2013 Approved By

Jeff Huang/Director of Operations

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1. GENERAL INFORMATION

1.1. Applicant

Company Name: CT Asia (HK) Ltd

Address: Unit 1309-11, 13/F,9 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

1.2. Manufacturer

Company Name: CK Telecom Limited

Address: Technology Road.High-Tech Development Zone. Heyuan, Guangdong, P.R.China.

1.3. Test Environment

Ambient conditions in the laboratory:

Items	Required	Actural	
Temperature(℃)	15~30	21.4	
Humidity(%RH)	30~70	46	

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2. SAR Measurement System

2.1. ALSAS-10U System Description

ALSAS-10-U is fully compliant with the technical and scientific requirements of IEEE 1528, IEC 62209, CENELEC, ARIB, ACA, and the Federal Communications Commission. The system comprises of a six axes articulated robot which utilizes a dedicated controller.

ALSAS-10U uses the latest methodologies and FDTD order to provide a platform which is repeatable with minimum uncertainty.

2.1.1. Applications

Predefined measurement procedures compliant with the guidelines of CENELEC, IEEE, IEC, FCC, etc are utilized during the assessment for the device. Automatic detection for all SAR maxima are embedded within the core architecture for the system, ensuring that peak locations used for centering the zoom scan are within a 1mm resolution and a 0.05mm repeatable position. System operation range currently is available up to 6 GHz in simulated tissue.



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2.1.2. Area Scans

Area Scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 10mm^2 step integral, with 1mm interpolation used to locate the peak SAR area used for zoom scan assessments.

Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

2.1.3. Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the ALSAS-10U software is in the shape of a cube and the side dimension of a 1g or 10g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000Kg/m^3 is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 10mm, with the side length of the 10g cube 21.5mm.

When the cube intersects with the surFront of the phantom, it is oriented so that 3 vertices touch the surFront of the shell or the center of a Front is tangent to the surFront.

The zoom Scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 5 ×5×8 (8mm×8mm×5mm) providing a volume of 32mm in the X & Y axis, and 35mm in the Z axis.

2.1.4. ALSAS-10U Interpolation and Extrapolation Uncertainty

The overall uncertainty for the methodology and algorithms the used during the SAR calculation was evaluated using the data from IEEE 1528 based on the example f3 algorithm:

$$f_3(x, y, z) = A \frac{a^2}{\frac{a^2}{4} + {x'}^2 + {y'}^2} \cdot \left(e^{-\frac{2z}{a}} + \frac{a^2}{2(a+2z)^2} \right)$$

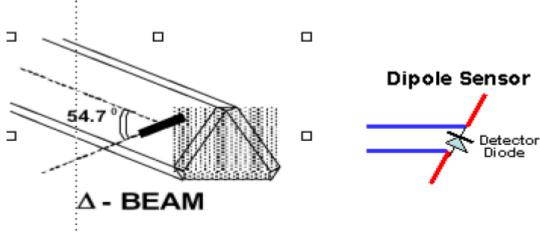
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2.2. Isotropic E-Field Probe

The isotropic E-Field probe has been fully calibrated and assessed for isotropic, and boundary effect within a controlled environment. Depending on the frequency for which the probe is calibrated the method utilized for calibration will change. A number of methods is used for calibrating probes, and these are outlined in the table below:

Calibration Frequency	Air Calibration	Tissue Calibration
900MHz	TEM Cell	Temperature
1800MHz	TEM Cell	Temperature

The E-Field probe utilizes a triangular sensor arrangement as detailed in the diagram below:



SAR is assessed with a calibrated probe which moves at a default height of 5mm from the center of the diode, which is mounted to the sensor, to the phantom surFront (in the Z Axis). The 5mm offset height has been selected so as to minimize any resultant boundary effect due to the probe being in close proximity to the phantom surFront.

The following algorithm is an example of the function used by the system for linearization of the output from the probe when measuring complex modulation schemes.

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

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2.2.1. Isotropic E-Field Probe Specification

Calibration in Air	Frequency Dependent
	Below 2GHz Calibration in air performed in a TEM Cell
	Above 2GHz Calibration in air performed in waveguide
Sensitivity	0.70 μ V/(V/m) 2 to 0.85 μ V/(V/m) 2
Dynamic Range	0.0005 W/kg to 100W/kg
Isotropic Response	Better than 0.2dB
Diode Compression point	Calibration for Specific Frequency
(DCP)	
Probe Tip Radius	< 5mm
Sensor Offset	1.56 (+/- 0.02mm)
Probe Length	290mm
Video Bandwidth	@ 500 Hz: 1dB
	@1.02 KHz: 3dB
Boundary Effect	Less than 2% for distance greater than 2.4mm
Spatial Resolution	Diameter less than 5mm Compliant with Standards

Probe model no: ALS-E-020, S/N:500-00273

2.3. Boundary detection Unit and Probe Mounting Device

ALSAS-10U incorporates a boundary detection unit with a sensitivity of 0.05mm for detecting all types of surFronts. The robust design allows for detecting during probe tilt (probe normalize) exercises, and utilizes a second stage emergency sTop. The signal electronics are directly into the robot controller for high accuracy surFront detection in lateral and axial detection modes (X, Y, &Z).

The probe is mounted directly onto the Boundary Detection unit for accurate tooling and displacement calculations controlled by the robot kinematics. The probe is connected to an isolated probe interconnect where the output stage of the probe is fed directly into the amplifier stage of the Daq-Paq.

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2.4. Daq-Paq (Analog to Digital Electronics)

ALSAS-10U incorporates a fully calibrated Daq-Paq (analog to digital conversion system) which has a 4 channel input stage, sent via a 2 stage auto-set amplifier module. The input signal is amplified accordingly so as to offer a dynamic range from 5 μ V to 800mV. Integration of the fields measured is carried out at board level utilizing a Co-Processor which then sends the measured fields down into the main computational module in digitized form via a RS232 communications port. Probe linearity and duty cycle compensation is carried out within the main Daq-Paq module.

ADC	12 Bit	
Amplifier Range	20m∨ to 200m∨ and 150m∨ to 800m∨	
Field Integration	Local Co-Processor utilizing proprietary integration	
	algorithms	
Number of Input Channels	4 in total 3 dedicated and 1 spare	
Communication	Packet data via RS232	

2.5. Axis Articulated Robot

ALSAS-10U utilizes a six articulated robot, which is controlled using a Pentium based real-time movement controller. The movement kinematics engine utilizes proprietary (Thermo CRS) interpolation and extrapolation algorithms, which allow full freedom of movement for each of the six joints within the working envelop. Utilization of joint 6 allows for full probe rotation with a tolerance better than 0.05mm around the central axis.



Robot/Controller Manufacturer	Thermo CRS	
Number of Axis	Six independently controlled axis	
Positioning Repeatability	0.05mm	
Controller Type	Single phase Pentium based C500C	
Robot Reach	710mm	
Communication	RS232 and LAN compatible	

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2.6. ALSAS Universal Workstation

ALSAS Universal workstation allows for repeatability and fast adaptability. It allows users to do calibration, testing and measurement using different types of phantoms with one set up, which significantly speeds up the measurement process.

2.7. Universal Device Positioner

The universal device positioner allows complete freedom of movement of the EUT. Developed to hold a EUT in a free-space scenario any additional loading attributable to the material used in the construction of the positioner has been eliminated. Repeatability has been enhanced through the linear scales which form the design used to indicate positioning for any given test scenario in all major axes. A 15° tilt movements for head SAR analysis. Overall uncertainty for measurements has been reduced due to the design of the Universal device positioner, which allows positioning of a device in as near to a free-space scenario as possible, and by providing the means for complete repeatability.



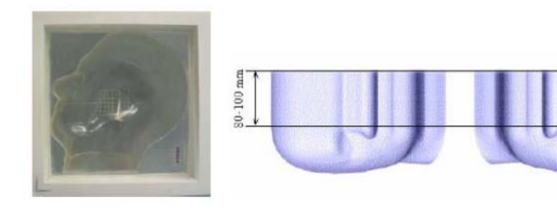
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2.8. Phontom Types

The ALSAS-10U allows the integration of multiple phantom types. SAM Phantoms fully compliant with IEEE 1528, Universal Phantom, and Universal Flat.

2.8.1. APREL SAM Phantoms

The SAM phantoms developed using the IEEE SAM CAD file. They are fully compliant with the requirements for both IEEE 1528 and FCC Supplement C. Both the left and right SAM phantoms are interchangeable, transparent and include the IEEE 1528 grid with visible NF and MB lines.



2.8.2. APREL Laboratories Universal Phantom The Universal Phantom is used on the ALSAS-10U as a system validation phantom. The Universal has Phantom been fully validated both experimentally from 800MHz to 6GHz and numerically using XFDTD numerical software. The shell thickness is 2mm overall, with a 4mm spacer located at the NF/MB intersection providing an overall thickness of 6mm in line with the requirements of IEEE-1528.



The design allows for fast and accurate measurements, of handsets, by allowing the conservative SAR to be evaluated at on frequency for both left and right head experiments in one measurement.

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3. Tissue Simulating Liquid

3.1. The composition of the tissue simulating liquid

INGREDIENT	850MHz	1900MHZ	850MHZ	1900MHz	2450MHz	2450MHz
(% Weight)						
	Head	Head	Body	Body	Head	Body
Water	40.45%	54.9%	45.0%	70.17%	55%	73.2%
Salt	1.45%	0.18%	52.4%	0.39%	0%	0%
Sugar	57.6%	0%	1.4%	0%	0%	0%
HEC	0.4%	0%	1.0%	0%	0%	0%
Preventol	0.1%	0%	0.1%	0%	0%	0%
DGBE	0%	44.92%	0%	29.44%	45%	26.76%

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3.2. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to SAR evaluation using APREL Dielectric Probe Kit and Agilent E5071B Vector Network Analyzer.

Head Tissue Simulate Measurement					
Frequency	Description	Dielectric Pa	Tiggue Tomp (°C)		
(MHz)	Description	ε _τ σ (s/m)		Tissue Temp.(°C)	
	Reference result	41.5	0.90	- NA	
850MHz	+/-5% window	39.425to43.575	0.855to0.945	INA	
	07-Mar-13	40.23	0.92	20.7	
	Reference result	40.0	1.40	- NA	
1900MHz	+/-5% window	38to42	1.33 to 1.47	INA	
	07-Mar-13	41.51	1.43	20.7	
	Reference result	39.2	1.80	- NA	
2450MHz	+/-5% window	37.24to41.16	1.71to1.89	INA	
	07-Mar-13	40.29	1.84	20.7	

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Body Tissue Simulate Measurement					
Frequency	Description	Dielectric P	Dielectric Parameters		
(MHz)	Description	€ r	σ (s/m)	Tissue Temp.(°C)	
	Reference result	55.2	0.97	NTA	
850MHz	+/-5% window	52.44to57.96	0.922to1.019	NA	
	07-Mar-13	53.32	0.96	20.7	
	Reference result	53.3	1.52	NTA	
1900MHz	+/-5% window	50.635to55.965	1.444to1.596	NA	
	07-Mar-13	52.93	1.55	20.7	
	Reference result	52.7	1.95	NTA	
2450MHz	+/-5% window	50.065to55.335	1.852to2.0475	NA	
	07-Mar-13	53.38	1.94	20.7	

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3.3. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in PP1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1428 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Target Frequency	Head		Вс	pdy
(MHz)	εΓ	σ (S/m)	εΓ	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

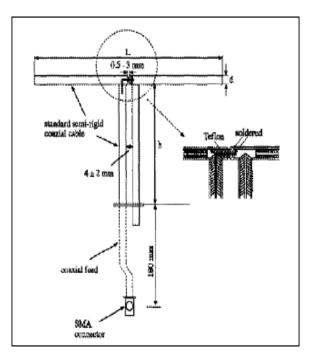
(ε_{τ} =relative permittivity, σ =conductivity and ρ =1000 Kg/m³)

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4. SAR Measurement Procedure

4.1. SAR System Validation

4.1.1. Validation Dipoles



The dipoles used are based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of both IEEE and FCC Supplement C. The table below provides details for the mechanical and electrical specifications for the dipoles.

Frequency	L(mm)	h(mm)	d(mm)
850MHz	161	89.8	3.6
1900MHz	67.1	38.9	3.6
2450MHz	51.5	30.4	3.6

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4.1.2. Validation Result

Head System Performance Check at 850MHZ&1900MHz&2450							
Validation Kit: ASL-D-850-S-2							
Frequency(MHz)	requency(MHz) Description SAR(W/Kg) 1g SAR(W/Kg) 10g Tissue Temp.(°C)						
	Reference result	9.590	6.003	N/A			
850MHz	+/-5%window	9.110to10.07	5.702to6.303	N/A			
	07-Mar-13(1W)	9.474	5.855	20.7			
Validation Kit:	ASL-D-1900-S-2),					
Frequency(MHz)	Description	SAR(W/Kg) 1g	SAR(W/Kg) 10g	Tissue Temp.(°C)			
	Reference result	39.378	19.668	N/A			
1900MHz	+/-5%window	37.418to41.356	18.685to20.651	IN/A			
	07-Mar-13(1W)	38.677	19.238	20.7			
Validation Kit:	ASL-D-2450-S-2).					
Frequency(MHz)	Description	SAR(W/Kg) 1g	SAR(W/Kg) 10g	Tissue Temp.(°C)			
	Reference result	52.456	23.603	NT/A			
2450MHz	+/-5%window	49.833to55.078	22.423to24.783	N/A			
	07-Mar-13(1W)	51.879	22.742	20.7			
Note: All SAR values are normalized to 1 W forward power.							

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Body System Performance Check at 850MHZ&1900MHz&2450MHz								
Validation Kit: ASL-D-850-S-2								
Frequency(MHz)	Description	SAR(W/Kg) 1g	SAR(W/Kg) 10g	Tissue Temp.(°C)				
	Reference result	9.981	6.006	NT/A				
850MHz	+/-5%window	9.482to10.48	5.706to6.306	N/A				
	07-Mar-13(1W)	9.543	5.867	20.7				
Validation Kit: ASL-D-1900-S-2								
Frequency(MHz)	Description	SAR(W/Kg) 1g	SAR(W/Kg) 10g	Tissue Temp.(℃)				
	Reference result	39.654	19.668	N/A				
1900MHz	+/-5%window	37.671to41.637	18.685to20.651					
	07-Mar-13(1W)	39.632	19.727	20.7				
Validation Kit:	ASL-D-2450-S-2),						
Frequency(MHz)	Description	SAR(W/Kg) 1g	SAR(W/Kg) 10g	Tissue Temp.(°C)				
	Reference result	52.592	24.461	NT/A				
2450MHz	+/-5%window	49.962to55.222	23.238to25.684	N/A				
	07-Mar-13(1W)	51.266	24.345	20.7				
Note: All SAR values are normalized to 1W forward power.								

Frequency(MHz)	850
Relative permittivity(real part)	40.23
Conductivity(S/m)	0.92
Variation(%)	0.987
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	6.5
Probe Sensitivity	1.20 1.20 1.20 μ V/(V/m)2
Data	2013-03-07
Area form	14 Hotspet x -10.00 y-0.008 14 12 10 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	9.474
SAR 10g(W/kg)	5.855

Frequency(MHz)	850
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	0.345
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
Acts like to the state of the s	SAR-Z Axis at Hotspot x 9.98 y -0.13
SAR 1g(W/kg)	9.543
SAR 10g(W/kg)	5.867

Frequency(MHz)	1900
Relative permittivity(real part)	41.51
Conductivity(S/m)	1.43
Variation(%)	0.381
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	5.7
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
	SAR-Z Axis at Hotopot x=10.01 y=0.00
A.M. Sam. A.M. Sam.	70 60 50 50 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70 75 70
SAR 1g(W/kg)	38.677
SAR 10g(W/kg)	19.238

Frequency(MHz)	1900
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	0.764
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
2 COMMAND A STATE OF THE STATE	SAR-Z Axis at Hotopit x-9.97 y-0.10 50 50 50 20 10 5 10 5 20 25 30
SAR 1g(W/kg)	39.632
SAR 10g(W/kg)	19.727

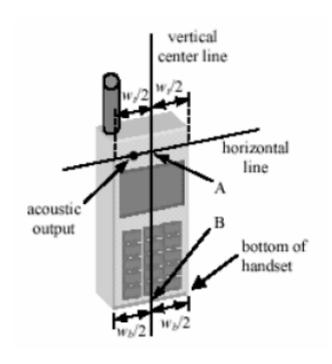
Frequency(MHz)	2450
Relative permittivity(real part)	40.29
Conductivity(S/m)	1.84
Variation(%)	0.651
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	4.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
FAIL SUID WE TI SUID AND TI S	SAR-Z Axis at Hotspat x-9, 96 y-4.13 100 90 80 70 100 40 30 20 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	51.879
SAR 10g(W/kg)	22.742

Frequency(MHz)	2450
Relative permittivity(real part)	53.38
Conductivity(S/m)	1.94
Variation(%)	-0.428
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	4.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
Fell Server Fell	SAR-Z Axis at Hotopat x-9, 9a y-4.13 100 90 80 70 10 10 10 10 15 20 20 10 15 20 25 30
SAR 1g(W/kg)	51.266
SAR 10g(W/kg)	24.345

4.2. Arrangement Assessment Setup

4.2.1. Test Positions of Device Relative to Head

This specifies exactly two test positions for the handset against the head phantom, the "cheek" position and the "tilted" position. The handset should be tested in both positions on the left and right sides of the SAM phantom. If the handset construction is such that it cannot be positioned using the handset positioning procedures described in 4.2.2.1 and 4.2.2.2 to represent normal use conditions (e.g. asymmetric handset), alternative alignment procedures should be considered with details provided in the test report.



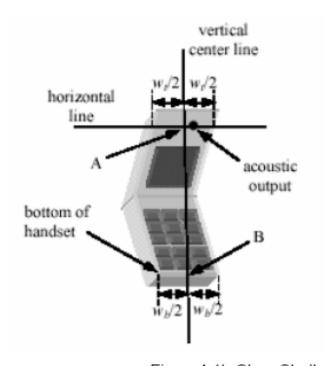


Figure 4.1a Internal Case

Figure 4.1b Clam Shell

4.2.2.1. Definition of the "Cheek" Position

The "cheek" position is defined as follows:

- a. Ready the handset for talk operation, if necessary. For example, for hand sets with a cover piece, open the cover. (If the handset can also be used with the cover closed both configurations must be tested.)
- b. Define two imaginary lines on the handset: the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset: the midpoint of the width wt of the handset at the level of the acoustic output (point A on Figures 4.1 a and 4.1 b), and the midpoint of the width wb of the

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Back of the handset through the center of the acoustic output (see Figure 4.1 a). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output. However, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front Front of the handset (see Figure 4.1 b), especially for clamshell handsets, handsets with flip pieces, and other irregularly-shaped handsets.

- c. Position the handset close to the surFront of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see 4.2), such that the plan defined by the vertical center line and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
- d. Translate the handset towards the phantom along the line passing through RE and LE until the handset touches the pinna.
- e. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to MB-NF including the line MB (called the reference plane).
- f. Rotate the handset around the vertical centerline until the handset (horizontal line) is symmetrical with respect to the line NF.

While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE and maintaining the handset contact with the pinna, rotate the handset about the line NF until any point on the handset is in contact with a phantom point below the pinna (cheek). See Figure 4.2 the physical angles of rotation should be noted.

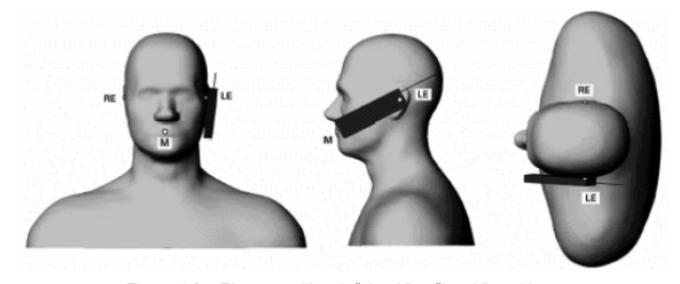


Figure 4.2 - Phone position 1, "cheek" or "touch" position.

4.2.1.2 Definition of the "Tilted" Position

The "tilted" position is defined as follows:

- a. Repeat steps (a) (g) of 4.2.1.1 to place the device in the "cheek position".
- b. While maintaining the orientation of the handset move the handset away from the

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pinna along the line passing through RE and LE in order to enable a rotation of the handset by 15 degrees.

- c. Rotate the handset around the horizontal line by 15 degrees.
- d. While maintaining the orientation of the handset, move the handset towards the phantom on a line passing through RE and LE until any part of the handset touches the ear. The tilted position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna (e.g. the antenna with the Back of the phantom head), the angle of the handset should be reduced. In this case, the tilted position is obtained if any part of the handset is in contact with the pinna as well as a second part of the handset is contact with the phantom (e.g. the antenna with Back of the head).

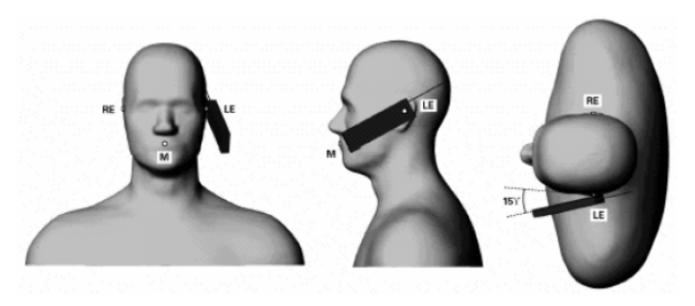


Figure 4.3 – Phone position 2, "tilted" position.

4.2.2. Test Positions for body-worn

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. A separation distance of 1.5 cm between the Back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distance may be use, but not exceed 2.5cm.

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4.3. SAR Measurement Procedure

The ALSAS-10U calculates SAR using the following equation,

$$SAR = \frac{\sigma |E|^2}{\rho}$$

σ :represents the simulated tissue conductivity

ρ :represents the tissue density

The EUT is set to transmit at the required power in line with product specification, at each frequency relating to the LOW, MID, and HIGH channel settings.

Pre-scans are made on the device to establish the location for the transmitting antenna, using a large area scan in either air or tissue simulation fluid.

The EUT is placed against the Universal Phantom where the maximum area scan dimensions are large than the physical size of the resonating antenna. When the scan size is not large enough to cover the peak SAR distribution, it is modified by either extending the area scan size in both the X and Y directions, or the device is shifted within the predefined area.

The area scan is then run to establish the peak SAR location (interpolated resolution set at 1 mm²) which is then used to orient the center of the zoom scan. The zoom scan is then executed and the 1g and 10g averages are derived from the zoom scan volume (interpolated resolution set at 1 mm³).

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5. SAR Exposure Limits

SAR assessments have been made in line with the requirements of IEEE C95.1-1999, IEEE 1528-2003 , FCC OET Bulletin 65 supplement C.

Type Exposure (W/kg)	Uncontrolled Environment Limit
Spatial Peak SAR (10g cube tissue for head and trunk)	1.60 W/kg
Spatial Average SAR (whole body)	0.08 W/kg
Spatial Peak SAR (10g for limb)	4.00 W/kg

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6. Test Equipment List

Instrument	Manufacture	Model No.	Serial No.	Last Calibration	
Universal Work Station	Aprel	ALS-UWS	100-00154	NCR	
Data Acquisition Package	Aprel	ALS-DAQ-PAQ-3	110-00215	NCR	
Probe Mounting Device and					
Boundary Detection Sensor	Aprel	ALS-PMDPS-3	120-00265	NCR	
System					
Miniature E-Field Probe	Aprel	ALS-E-020	500-00282	Oct.01,2012	
Left ear SAM Phantom	Aprel	ALS-P-SAM-L	130-00312	NCR	
Right ear SAM Phantom	Aprel	ALS-P-SAM-R	140-00362	NCR	
Universal SAM Phantom	Aprel	ALS-P-SU-1	150-00410	NCR	
Reference Validation Dipole	Aprel	ALS-D-850-S-2	180-00556	May.19,2011	
850MHz	Apici	AL3-D-030-3-2	100-00330	Wiay.19,2011	
Reference Validation Dipole	Aprel	ALS-D-1900-S-2	210-00707	May.16,2011	
1900MHz	Apiei	ALS-D-1900-S-2	210-00707	Way.10,2011	
Reference Validation Dipole	Aprel	ALS-D-2450-S-2	220-00755	May.19,2011	
2450MHz	Apici	ALS-D-2430-5-2	220-00733	1v1ay.19,2011	
Dielectric Probe Kit	Aprel	ALS-PR-DIEL	260-00955	NCR	
Device Holder 2.0	Aprel	ALS-H-E-SET-2	170-00506	NCR	
SAR software	Aprel	ALS-SAR-AL-10	Ver.2.3.8	NCR	
CRS C500C Controller	Thermo	ALS-C500	RCF0504291	NCR	
CRS F3 Robot	Aprel	ALS-F3-SW	N/A	NCR	
Power Amplifier	Mini-Circuit	ZHL- 42	040306	Jul.17,2012	
Directional Coupler	Agilent	778D-012	51011	Jul.17,2012	
Universal Radio	A cilont	D5515C	104945	Mor 1 2012	
Communication Tester	Agilent	E5515C	104845	Mar.1,2012	
Vector Network	Agilent	E5071B	MY4230146	Jul.19,2012	
Signal Generator	Agilent	E8257D	N/A	Dec.10,2012	
Power Meter	Rohde&Schwarz	NRP	N/A	Dec.10,2012	

Note: All equipment upon which need to be calibrated are with calibration period of 1 year, except validation dipole antenna of every 3 years.

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7. Measurement Uncertainty

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c _i ¹ (1-g)	C _i ¹ (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	√3	$(1-cp)^{1/2}$	(1-cp) ^{1/2}	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	√3	$\sqrt{\mathtt{cp}}$	√ср	4.4	4.4
Boundary Effect	1.0	rectangular	√3	1	1	0.6	0.6
Linearity	4.7	rectangular	√3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	√3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	√3	1	1	0.5	0.5
Integration Time	1.7	rectangular	√3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	√3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	√3	1	1	0.2	0.2
Restriction							
Probe Positioning with	2.9	rectangular	√3	1	1	1.7	1.7
respect to Phantom Shell							
Extrapolation and	3.7	rectangular	√3	1	1	2.1	2.1
Integration							
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder	2.0	normal	1	1	1	2.0	2.0
Uncertainty							
Drift of Output Power	0.6	rectangular	√3	1	1	0.3	0.3
Phantom and Setup							
Phantom	3.4	rectangular	√3	1	1	2.0	2.0
Uncertainty(shape &							
thickness tolerance)							
Liquid	5.0	rectangular	√3	0.7	0.5	2.0	1.4
Conductivity(target)							
Liquid	0.0	normal	1	0.7	0.5	0.0	0.0
Conductivity(meas.)							

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Liquid	5.0	rectangular	√3	0.6	0.5	1.7	1.4
Permittivity(target)							
Liquid	2.4	normal	1	0.6	0.5	1.4	1.2
Permittivity(meas.)							
Combined Uncertainty		RSS				9.3	9.2
Combined Uncertainty		Normal(k=2)				18.7	18.3
(coverage factor=2)							

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8. SAR Test Results

8.1. Conducted Power(Unit:dBm)

<WWAN Conducted Power>

Band	GSM850			GSM1900		
Channel	128	128 190 251		512	661	810
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM	31.36	31.38	31.42	28.57	28.56	28.59
Band	WCDMA band II			WCDMA band V		
Channel	9262	9400	9538	4132	4183	4233
Frequency(MHz)	1852.4	1880.0	1907.6	826.4	836.6	846.6
WCDMA	21.79	21.91	21.57	21.75	21.67	21.37

Band	Conducted Power (dBm)			Factor	Average Power (dBm)			
Channel	128	190	251	(dB)	128	190	251	
Frequency(MHz)	824.2	836.6	848.8		824.2	836.6	848.8	
GPRS8(1up)	31.35	31.37	31.41	-9.03	22.32	22.34	22.39	
GPRS10(2up)	30.46	30.49	30.57	-6.02	24.44	24.47	24.55	
GPRS12(4up)	26.38	26.43	26.48	-3.01	23.37	23.42	23.47	

Band	Conducted Power (dBm)			Factor	Avera	dBm)	
Channel	512	661	810	(dB)	512	661	810
Frequency(MHz)	1850.2	1880.0	1909.8		1850.2	1880.0	1909.8
GPRS8(1up)	28.56	28.55	28.58	-9.03	19.53	19.52	19.55
GPRS10(2up)	27.63	27.61	27.69	-6.02	21.61	21.59	21.65
GPRS12(4up)	23.68	23.65	23.75	-3.01	20.67	20.64	20.74

NOTES:

Division Factors:

To average the power, the division factor is as follows:

- 1.TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) = -9.03 dB
- 2.TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) = > -6.02dB
- 3.TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) = -4.26dB
- 4.TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB
- 5. The EUT do not support DTM mode.

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<Bluetooth Conducted Power>

		er (dBm)					
Channel	Frequency	requency Data Rate / Modulation					
		GFSK	π /4-DQPSK	8-DPSK			
		1Mbps	2Mbps	3Mbps			
Ch00	2402MHz	7.91	6.37	6.28			
Ch39	2441MHz	8.47	7.15	6.96			
Ch78	2480MHz	8.66	7.49	7.29			

<WLAN Conducted Power>

			2.4GHz 802.11b RF Power (dBm)							
Channel	nel Frequency At DSSS Data Rate									
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps					
CH 01	2412 MHz	16.41	16.37	16.40	16.11					
CH 06	2437 MHz	16.69	16.55	16.60	16.41					
CH 11	2462 MHz	16.81	16.49	16.79	16.44					

		2.4GHz 802.11g RF Power (dBm)							
	At OFDM Data Rate								
Channel	Frequency	6	9	12	18	24	36	48	54
		Mbps	Mbps	Mbps	Mbps	Mbps	Mbps	Mbps	Mbps
CH01	2412MHz	14.01	13.98	13.87	13.55	13.33	12.96	12.48	12.43
CH06	2437MHz	14.41	14.30	14.03	13.85	13.56	13.27	12.91	12.79
CH11	2462MHz	14.49	14.32	14.21	13.95	13.74	13.33	12.95	12.83

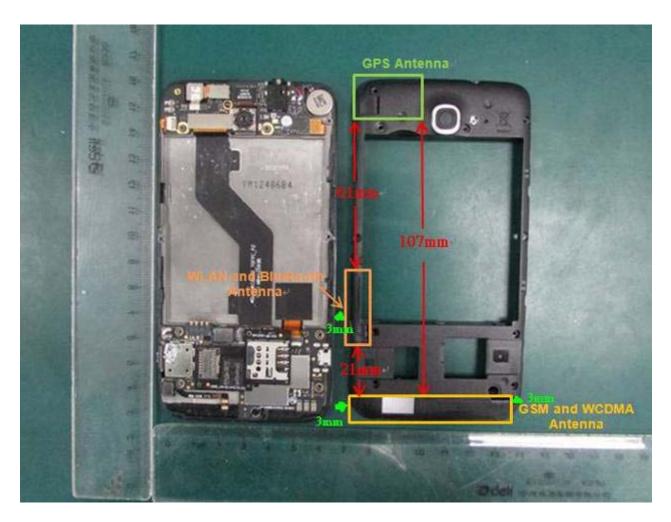
		2.4GHz 802.11n RF Power (dBm)								
		At OFDM Data Rate								
Channel	Channel Frequency	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
		6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps	
CH01	2412MHz	13.93	13.55	13.43	13.23	12.59	12.49	12.36	12.25	
CH06	2437MHz	14.31	13.99	13.80	13.56	13.11	12.86	12.68	12.58	
CH11	2462MHz	14.45	14.01	13.84	13.60	13.14	12.92	12.87	12.67	

Note:

- 1. Per KDB 248227, choose the highest output power channel to test SAR and judge further SAR exclusion.
- 2. Per KDB 248227, 11g and 11n(HT20) output power is less than 1/4 dB higher than 11b mode, thus the SAR can be excluded.
- 3. For each frequency band, testing at higher data rate and higher order modulations is not required when the maximum average power output for each of these configurations is less than 1/4 dB higher than those measured at the lowest data rate.

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8.2. Exposure Positions Consideration



Sides for SAR tests; Hotspot mode Test distance: 10 mm						
Band	Back	Front	Тор	Bottom	Right	Left
GSM 850	1	1	Х	1	1	1
GSM 1900	1	1	Х	1	1	1
WCDMA Band II	✓	1	Х	✓	1	✓
WCDMA Band V	1	1	Х	√	1	✓
WLAN 11b/g 2.4GHz	1	1	Х	X	1	Х

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Sides for SAR tests; Body-worn mode Test distance: 10 mm						
Band	Back	Front	Тор	Bottom	Right	Left
GSM 850	1	1	Х	Х	Х	Х
GSM 1900	✓	1	Х	Х	Х	Х
WCDMA Band II	✓	1	Χ	Х	Χ	Х
WCDMA Band V	1	1	Х	X	Х	X
WLAN 11b/g 2.4GHz	1	1	Х	Х	Х	X

Note:

1. Base on KDB447498 D01v05 4.3.1.1 formula, BT SAR is exclude as below table:

	Wireless Interface	Bluetooth
	Tune-up Maximum power(dBm)	9
	Tune-up Maximum power(mW)	8
	Antenna to user(mm)	5
Head	SAR exclusion threshold(mW)	10
	SAR testing required or not?	NOT
	Antenna to user(mm)	10
Body	SAR exclusion threshold(mW)	19
	SAR testing required or not?	NOT

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances

 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,

 $8mW(9dBm)/5mm*\sqrt{2.45}=2.5<3.0$, So standalone Bluetooth SAR test is not required.

The SAR threshold for 5mm distance at 2450MHz is 10mW. The power of the BT transmitter is below 10mW.

Therefore standalone SAR does not required.

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8.3. SAR Test Results Summary

8.3.1 Test results for Head SAR Test

<WWAN SAR>

Band	Position	Channel	Measured Power(dBm)	Tune-up Power(dBm)	SAR 1g (W/kg)	Scale factor	Scaled SAR 1g(W/kg)
	LC	251	31.42	32	0.303	1.143	0.346
CCMOSO	LT	251	31.42	32	0.310	1.143	0.354
GSM850	RC	251	31.42	32	0.330	1.143	0.377
	RT	251	31.42	32	0.273	1.143	0.312
	LC	810	28.59	30	0.366	1.384	0.506
CCM1000	LT	810	28.59	30	0.183	1.384	0.253
GSM1900	RC	810	28.59	30	0.400	1.384	0.533
	RT	810	28.59	30	0.302	1.384	0.418

Band	Position	Channel	Measured Power(dBm)	Tune-up Power(dBm)	SAR 1g (W/kg)	Scale factor	Scaled SAR 1g(W/kg)
	LC	4132	21.75	22	0.189	1.059	0.200
WCDMA	LT	4132	21.75	22	0.177	1.059	0.187
V	RC	4132	21.75	22	0.193	1.059	0.204
	RT	4132	21.75	22	0.169	1.059	0.179
	LC	9400	22.91	22	0.677	1.021	0.691
WCDMA	LT	9400	22.91	22	0.340	1.021	0.347
II	RC	9400	22.91	22	0.773	1.021	0.789
	RT	9400	22.91	22	0.418	1.021	0.427

<WLAN SAR>

Band	Position	Channel	Measured Power(dBm)	Tune-up Power(dBm)	SAR 1g (W/kg)	Scale factor	Scaled SAR 1g(W/kg)
	LC	11	16.81	17	0.06	1.045	0.063
802.11b	LT	11	16.81	17	0.038	1.045	0.040
band	RC	11	16.81	17	0.124	1.045	0.130
	RT	11	16.81	17	0.086	1.045	0.090

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8.3.2 Test results for Hotspot SAR Test

<WWAN SAR 1cm>

Band	Position	Channel	Measured Power(dBm)	Tune-up Power(dBm)	SAR 1g (W/kg)	Scale factor	Scaled SAR 1g(W/kg)
	Front	251	26.48	27	0.657	1.127	0.741
	Back	128	26.38	27	0.957	1.153	1.104
	Back	190	26.43	27	0.967	1.140	1.103
GPRS850	Back	251	26.48	27	0.979	1.127	1.104
	Left	251	26.48	27	0.441	1.127	0.497
	Right	251	26.48	27	0.566	1.127	0.638
	Bottom	251	26.48	27	0.164	1.127	0.185
	Front	810	23.75	24	0.496	1.059	0.525
	Back	810	23.75	24	0.726	1.059	0.769
GPRS1900	Left	810	23.75	24	0.301	1.059	0.319
	Right	810	23.75	24	0.078	1.059	0.083
	Bottom	810	23.75	24	0.193	1.059	0.204

Band	Position	Channel	Measured Power(dBm)	Tune-up Power(dBm)	SAR 1g (W/kg)	Scale factor	Scaled SAR 1g(W/kg)
	Front	4132	21.75	22	0.332	1.059	0.352
WCDMA	Back	4132	21.75	22	0.534	1.059	0.566
WCDMA V	Left	4132	21.75	22	0.251	1.059	0.266
·	Right	4132	21.75	22	0.331	1.059	0.351
	Bottom	4132	21.75	22	0.035	1.059	0.037
	Front	9400	21.91	22	0.628	1.021	0.641
WCDMA	Back	9400	21.91	22	0.775	1.021	0.791
.,,	Left	9400	21.91	22	0.455	1.021	0.465
II	Right	9400	21.91	22	0.146	1.021	0.149
	Bottom	9400	21.91	22	0.303	1.021	0.309

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<WLAN SAR 1cm>

Band	Position	Channel	Measured Power(dBm)	Tune-up Power(dBm)	SAR 1g (W/kg)	Scale factor	Scaled SAR 1g(W/kg)
	Front	11	16.81	17	0.089	1.045	0.093
802.11b	Back	11	16.81	17	0.283	1.045	0.296
band	Right	11	16.81	17	0.188	1.045	0.196

8.3.3 Test results for Body-worn SAR Test

<WWAN SAR 1cm>

Band	Position	СН	Measured Power(dBm)	Tune-up Power(dBm)	SAR 1g (W/kg)	Scale factor	Scaled SAR 1g(W/kg)
	Front	251	26.48	27	0.657	1.127	0.741
GPRS850	Back	128	26.38	27	0.957	1.153	1.104
GPK3630	Back	190	26.43	27	0.967	1.140	1.103
	Back	251	26.48	27	0.979	1.127	1.104
GSM850 + earphone	Back	251	31.42	32	0.638	1.143	0.729
GPRS1900	Front	810	23.75	24	0.496	1.059	0.525
GPRS1900	Back	810	23.75	24	0.726	1.059	0.769
GSM1900 + earphone	Back	810	28.59	30	0.349	1.384	0.483

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Band	Position	Channel	Measured Power(dBm)	Tune-up Power(dBm)	SAR 1g (W/kg)	Scale factor	Scaled SAR 1g(W/kg)
WCDMA	Front	4132	21.75	22	0.332	1.059	0.352
V	Back	4132	21.75	22	0.534	1.059	0.566
WCDMA V + earphone	Back	4132	21.75	22	0.521	1.059	0.552
WCDMA	Front	9400	21.91	22	0.628	1.021	0.641
II	Back	9400	21.91	22	0.775	1.021	0.791
WCDMA II + earphone	Back	9400	21.91	22	0.732	1.021	0.747

<WLAN SAR 1cm>

Band	Position	Channel	Measured Power(dBm)	Tune-up Power(dBm)	SAR 1g (W/kg)	Scale factor	Scaled SAR 1g(W/kg)
802.11b	Front	11	16.81	17	0.089	1.045	0.093
band	Back	11	16.81	17	0.283	1.045	0.296
802.11b band + earphon e	Back	11	16.81	17	0.272	1.045	0.284

8.3.4 Repeated SAR Measurement

			Measured	Tune-up	SAR	Scale	Scaled
Band	Position	CH	Power	Power	1g	factor	SAR
			(dBm)	(dBm)	(W/kg)		1g(W/kg)
CDD C050	Back	251	26.48	27	0.979	1.127	1.104
GPRS850	Back	251	26.48	27	0.983	1.127	1.108

Note:

- 1. Per KDB 865664 D01v01,for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg
- 2. Per KDB 447498D01v05, for each exposure position, if the highest output channel<0.8W/kg, other channels SAR testing are not necessary.
- 3. Per KDB 865664 D01v01,if the deviation among the repeated measurement is ≤20% and the measured SAR<1.45W/kg, only one repeated measurement is required.
- 4. The deviation is the difference in percentage between original and repeated measured SAR.
- 5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

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8.4. Simultaneous Transmitting Configurations

Simultaneous Transmitting Configuration	Applicable Combination
Simultaneous Transmission	WWAN+BT WWAN+WiFi

- 1. WLAN and BT use the same antenna, cannot transmit simultaneously.
- 2. GSM and WCDMA use the same antenna, cannot transmit simultaneously.
- 3. If 1g SAR sum>1.6W/kg, SPLSR calculation is necessary.
- 4. For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB447498 D01v05 base on formula as below:

(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)/x}$] W/kg for test separation distances ≤ 50 mm;

where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the *test separation distances* is> 50 mm.

5. If the test separation distance(antenna-user)is<5mm.5mm is used for estimated SAR calculation.

	Head(0 cm)	Body(1 cm)
Estimated SAR(W/kg)	0.333W/kg	0.167W/kg

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<Head SAR>

	Scaled WWAN		Scaled BT	Scaled
Position	WWAN band	Max. WWAN SAR	Max. WLAN SAR	WWAN+BT
	GSM850	0.346	0.333	0.679
Left Cheek	GSM1900	0.506	0.333	0.839
Left Cheek	WCDMA V	0.200	0.333	0.533
	WCDMA II	0.691	0.333	1.024
	GSM850	0.354	0.333	0.687
I of Tile	GSM1900	0.253	0.333	0.586
Left Tilt	WCDMA V	0.187	0.333	0.520
	WCDMA II	0.347	0.333	0.670
	GSM850	0.377	0.333	0.710
Diabt Charle	GSM1900	0.553	0.333	0.886
Right Cheek	WCDMA V	0.204	0.333	0.537
	WCDMA II	0.789	0.333	1.122
Right Tilt	GSM850	0.312	0.333	0.645
	GSM1900	0.418	0.333	0.751
	WCDMA V	0.179	0.333	0.512
	WCDMA II	0.427	0.333	0.760

	Scaled WWAN		Scaled WLAN	Scaled
Position	WWAN band	Max. WWAN SAR	Max. WLAN SAR	WWAN+WLAN
	GSM850	0.346	0.063	0.409
Left Cheek	GSM1900	0.506	0.063	0.569
Left Cheek	WCDMA V	0.200	0.063	0.263
	WCDMA II	0.691	0.063	0.754
	GSM850	0.354	0.040	0.394
I of Tile	GSM1900	0.253	0.040	0.293
Left Tilt	WCDMA V	0.187	0.040	0.227
	WCDMA II	0.347	0.040	0.387
	GSM850	0.377	0.130	0.507
Diaht Chash	GSM1900	0.553	0.130	0.683
Right Cheek	WCDMA V	0.204	0.130	0.334
	WCDMA II	0.789	0.130	0.919
Right Tilt	GSM850	0.312	0.090	0.402
	GSM1900	0.418	0.090	0.508
	WCDMA V	0.179	0.090	0.269
	WCDMA II	0.427	0.090	0.517

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<Hotspot & Body-worn SAR>

	Scaled WWAN		Scaled BT	Scaled
Position	WWAN band	Max. WWAN SAR	Max. WLAN SAR	WWAN+BT
	GSM850	0.741	0.167	0.908
Ever 4	GSM1900	0.525	0.167	0.692
Front	WCDMA V	0.352	0.167	0.529
	WCDMA II	0.641	0.167	0.808
	GSM850	1.104	0.167	1.271
Dools	GSM1900	0.769	0.167	0.936
Back	WCDMA V	0.566	0.167	0.733
	WCDMA II	0.791	0.167	0.958
	GSM850	0.638	0.167	0.805
D:-1-4	GSM1900	0.083	0.167	0.250
Right	WCDMA V	0.351	0.167	0.518
	WCDMA II	0.149	0.167	0.316
Daala	GSM850	0.729	0.167	0.896
Back	GSM1900	0.483	0.167	0.650
(With	WCDMA V	0.522	0.167	0.719
earphone)	WCDMA II	0.747	0.167	0.914

	Scaled WWAN		Scaled WLAN	Scaled
Position	WWAN band	Max. WWAN SAR	Max. WLAN SAR	WWAN+WLAN
	GSM850	0.741	0.093	0.834
Ewant	GSM1900	0.525	0.093	0.618
Front	WCDMA V	0.352	0.093	0.455
	WCDMA II	0.641	0.093	0.734
	GSM850	1.104	0.296	1.400
Back	GSM1900	0.769	0.296	1.065
Баск	WCDMA V	0.566	0.296	0.862
	WCDMA II	0.791	0.296	1.087
	GSM850	0.638	0.196	0.834
Right	GSM1900	0.083	0.196	0.279
	WCDMA V	0.351	0.196	0.547
	WCDMA II	0.149	0.196	0.345
Dools	GSM850	0.729	0.284	1.013
Back	GSM1900	0.483	0.284	0.767
(With	WCDMA V	0.522	0.284	0.836
earphone)	WCDMA II	0.747	0.284	1.031

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8.5. SAR Measurement Data

GS	SM850 left cheek ch251	
Frequency(MHz)	848.8	
Relative permittivity(real part)	40.23	
Conductivity(S/m)	0.92	
Variation(%)	2.438	
Duty Cycle Factor	8	
Crest factor	8	
4Conversion Factor	6.5	
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2	
Data	2013-03-07	
	SAR-Z Axis at Hetepat x 12.10 y - 5.05	
	0.45 0.40 0.35 0.30 0.20 0.15 0.10 0.05 0.00 0.5 0.00 0.5 0.00 0.5 0.00 0.5 0.00 0.5 0.00 0.5 0.00 0.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	
SAR 1g(W/kg)	0.303	
SAR 10g(W/kg)	0.221	

GSM850	left tilt ch251
Frequency(MHz)	848.8
Relative permittivity(real part)	40.23
Conductivity(S/m)	0.92
Variation(%)	-2.645
Duty Cycle Factor	8
Crest factor	8
Conversion Factor	6.5
Probe Sensitivity	1.20 1.20 1.20 μ V/(V/m)2
Data	2013-03-07
	SAR-Z Axis as Hotspat x 10.17 y 4 35 0.45 0.40 0.35 0.30 0.30 0.35 0.20 0.15 0.10 0.05 0.00 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	0.310
SAR 10g(W/kg)	0.214

GSM850 Rig	ght cheek ch251
Frequency(MHz)	848.8
Relative permittivity(real part)	40.23
Conductivity(S/m)	0.92
Variation(%)	-3.865
Duty Cycle Factor	8
Crest factor	8
Conversion Factor	6.5
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
	0.45 0.40 0.35 0.30 0.30 0.15 0.10 0.05 0.00 0.5 10 15 20 25 30
SAR 1g(W/kg)	0.330
SAR 10g(W/kg)	0.198

GSM8	850 Right tilt CH251
Frequency(MHz)	848.8
Relative permittivity(real part)	40.23
Conductivity(S/m)	0.92
Variation(%)	2.648
Duty Cycle Factor	8
Crest factor	8
Conversion Factor	6.5
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
	0.40 0.35 0.25 0.25 0.10 0.15 0.10 0.05 0.00 0.5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	0.273
SAR 10g(W/kg)	0.199

GSM1900 Le	ft cheek CH810
Frequency(MHz)	1909.8
Relative permittivity(real part)	41.51
Conductivity(S/m)	1.43
Variation(%)	-0.078
Duty Cycle Factor	8
Crest factor	8
Conversion Factor	5.7
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
	0.55 0.50 0.45 0.40 0.35 0.25 0.20 0.15 0.10 0.05 0.00 0.5 0.00 0.5 0.00 0.5 0.00 0.5 0.00 0.5 0.00 0.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SAR 1g(W/kg)	0.366
SAR 10g(W/kg)	0.199

(GSM1900 Left tilt CH810
Frequency(MHz)	1909.8
Relative permittivity(real part)	41.51
Conductivity(S/m)	1.43
Variation(%)	3.137
Duty Cycle Factor	8
Crest factor	8
Conversion Factor	5.7
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
	0.35 0.30 0.25 0.15 0.10
	0.00 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	0.183
SAR 10g(W/kg)	0.104

GSM19	00 Right cheek CH810
Frequency(MHz)	1909.8
Relative permittivity(real part)	41.51
Conductivity(S/m)	1.43
Variation(%)	1.316
Duty Cycle Factor	8
Crest factor	8
Conversion Factor	5.7
Probe Sensitivity	1.20 1.20 1.20 μ V/(V/m)2
Data	2013-03-08
	0.9 0.8 0.7 0.6 0.5 0.5 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0
SAR 1g(W/kg)	0.400
SAR 10g(W/kg)	0.248

GSM1900 Ri	ght tilt CH810
Frequency(MHz)	1909.8
Relative permittivity(real part)	41.51
Conductivity(S/m)	1.43
Variation(%)	1.069
Duty Cycle Factor	8
Crest factor	8
Conversion Factor	5.7
Probe Sensitivity	1.20 1.20 1.20 μ V/(V/m)2
Data	2013-03-08
	0.45 0.40 0.35 0.30 0.25 0.20 0.15 0.10 0.05 0.00 5 10 15 20 25 30 ZOistance (mm)
SAR 1g(W/kg)	0.302
SAR 10g(W/kg)	0.173

WCDMA Band I	Left cheek CH9400
Frequency(MHz)	1880.0
Relative permittivity(real part)	41.51
Conductivity(S/m)	1.43
Variation(%)	-1.319
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	5.7
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
	# Hettpot x 40.09 y - 25.04 1.1 1.0 0.9 0.8 0.7 0.5 0.4 0.3 0.2 0.1 0.0 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/Kg)	0.677
SAR 10g(W/Kg)	0.400

WCDMA Band II Left tilt CH9400	
Frequency(MHz)	1800.0
Relative permittivity(real part)	41.51
Conductivity(S/m)	1.43
Variation(%)	0.810
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	5.7
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
	SAR-Z Axis at Hotopet x 30 13 y-15.10 0.55 0.50 0.45 0.40 0.35 0.20 0.15 0.10 0.05 0.00 0.5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/Kg)	0.340
SAR 10g(W/Kg)	0.226

WCDMA Band I	Right cheek CH9400
Frequency(MHz)	1800.0
Relative permittivity(real part)	41.51
Conductivity(S/m)	1.43
Variation(%)	-3.642
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	5.7
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
	12- 1.1- 10- 09- 08- (MM) 07- (HE) 06- 05- 04- 03- 02- 01- 00- 0 5 10 15 20 25 30 25 30
SAR 1g(W/Kg)	0.773
SAR 10g(W/Kg)	0.455

WCDMA Band II	Right tilt CH9400
Frequency(MHz)	1800.0
Relative permittivity(real part)	41.51
Conductivity(S/m)	1.43
Variation(%)	2.356
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	5.7
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
	0.7 0.6 0.5 0.1 0.1 0.0 0.1 0.1 0.0 0.1 0.1
SAR 1g(W/Kg)	0.418
SAR 10g(W/Kg)	0.231

WCDMA Band V Left cheek CH4132	
Frequency(MHz)	826.4
Relative permittivity(real part)	40.23
Conductivity(S/m)	0.92
Variation(%)	-0.771
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	6.5
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
	0.25 0.20 0.15 0.00 0.10 0.05 0.00 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/Kg)	0.189
SAR 10g(W/Kg)	0.131

WCDMA Band \	/ Left tilt CH4132
Frequency(MHz)	826.4
Relative permittivity(real part)	40.23
Conductivity(S/m)	0.92
Variation(%)	-1.640
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	6.5
Probe Sensitivity	1.20 1.20 1.20 μ V/(V/m)2
Data	2013-03-07
	SAR-Z Axis at Hotspot x10.16 y4.37 0.24 0.22 0.00 0.18 0.14 0.16 0.10 0.08 0.06 0.04 0.02 0.00 0.5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/Kg)	0.177
SAR 10g(W/Kg)	0.128

WCDMA Band V	Right cheek CH4132
Frequency(MHz)	826.4
Relative permittivity(real part)	40.23
Conductivity(S/m)	0.92
Variation(%)	-1.596
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	6.5
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
	SAR-Z Axis at Hotsgot x20.13 y.3.12 0.25 0.20 0.015 0.00 0.10 0.05 0.00 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/Kg)	0.193
SAR 10g(W/Kg)	0.131

WCDMA Band	V Right tilt CH4132
Frequency(MHz)	826.4
Relative permittivity(real part)	40.23
Conductivity(S/m)	0.92
Variation(%)	4.544
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	6.5
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
	0.18 0.16 0.14 0.014 0.00 0.00 0.00 0.00 0.00 0.0
SAR 1g(W/Kg)	0.169
SAR 10g(W/Kg)	0.126

802.11b Left cheek CH11	
Frequency(MHz)	2462
Relative permittivity(real part)	40.29
4Conductivity(S/m)	1.84
Variation(%)	-2.609
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	4.65
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
	0.14 0.12 0.10 0.08 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SAR 1g(W/kg)	0.060
SAR 10g(W/kg)	0.023

802.11b Left tilt CH11	
Frequency(MHz)	2462
Relative permittivity(real part)	40.29
Conductivity(S/m)	1.84
Variation(%)	2.874
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	4.65
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
	0.10 0.09 0.08 0.07 0.06 0.04 0.03 0.02 0.01 0.00 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	0.038
SAR 10g(W/kg)	0.014

802.11b Right cheek CH11	
Frequency(MHz)	2462
Relative permittivity(real part)	40.29
Conductivity(S/m)	1.84
Variation(%)	-1.763
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	4.65
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
	0.25 0.20 0.15 0.10 0.05 0.00 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.25 0.10 0.25 0.10 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
SAR 1g(W/kg)	0.124
SAR 10g(W/kg)	0.048

802.11b Right tilt CH11	
Frequency(MHz)	2462
Relative permittivity(real part)	40.29
Conductivity(S/m)	1.84
Variation(%)	1.236
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	4.65
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
	0.20 0.18 0.16 0.14 0.12 0.00 0.08 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SAR 1g(W/kg)	0.086
SAR 10g(W/kg)	0.033

GPRS850 body Front CH251	
Frequency(MHz)	848.8
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	0.456
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
	SAR-Z Axis st Hottpot x2.09 y-10.08 0.7 0.6 0.7 0.6 0.7 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
SAR 1g(W/kg)	0.657
SAR 10g(W/kg)	0.443

GPRS850 body Back CH128	
Frequency(MHz)	824.2
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	0.128
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
200 Cor. 100 100 100 100 100 100 100 100 100 10	at Hotspot x 1.99 y -0.10 1.2 1.1 1.0 0.9 0.8 0.5 0.4 0.3 0.2 0.1 0.0 0.5 10 15 20 25 30
SAR 1g(W/kg)	0.957
SAR 10g(W/kg)	0.646

GPRS850 body Back CH190	
Frequency(MHz)	836.6
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	1.173
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
60 S Tor. 60 S Tor.	1.3 1.2 1.1 1.0 0.9 0.8 0.8 0.7 9 0.6 0.5 0.4 0.3 0.2 0.1 0.0 0 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	0.967
SAR 10g(W/kg)	0.648

GPRS850 body Back CH251	
Frequency(MHz)	848.8
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	-0.103
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
Area Scan. Area S	at Hotspot x1.99 y-0.10 1.2 1.1 1.0 0.9 0.8 0.5 0.4 0.3 0.2 0.1 0.0 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	0.979
SAR 10g(W/kg)	0.647

GPRS850 body Back CH251(repeat)	
Frequency(MHz)	848.8
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	-1.278
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
Area Scan 30	12 10 10 10 04 04 02 00 05 10 15 20 25 30 25 30
SAR 1g(W/kg)	0.983
SAR 10g(W/kg)	0.654

GPRS850 body Left CH251	
Frequency(MHz)	848.8
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	-0.117
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
CHAPTER STATE OF THE STATE OF T	0.65 0.60 0.55 0.50 0.40 0.40 0.25 0.20 0.15 0.10 0.05 0.00 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15
SAR 1g(W/kg)	0.441
SAR 10g(W/kg)	0.286

GPRS850 body Right ch251	
Frequency(MHz)	848.8
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	0.974
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
Am Sor. 644 544 544 544 544 544 544 54	0.8 0.7 0.6 0.7 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
SAR 1g(W/kg)	0.566
SAR 10g(W/kg)	0.362

GPRS850 body Bottom ch251	
Frequency(MHz)	848.8
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	-1.976
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
Mail 8005 And 1005 And 1	0.20 0.00 0.15 0.10 0.05 0.00 0.5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	0.164
SAR 10g(W/kg)	0.084

GSM850 body Back ch251+earphone	
Frequency(MHz)	848.8
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	1.473
Duty Cycle Factor	8
Crest factor	8
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-07
Mrs. Sec. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	at Hotspot x 0.68 y 1.64 1.0 0.9 0.8 0.7 (a) 0.9 0.9 0.1 0.2 0.1 0.0 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	0.638
SAR 10g(W/kg)	0.470

GPRS1900 body Front CH810	
Frequency(MHz)	1909.8
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	1.139
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
Ant Sec	SAR-Z Axis at Hotopet x 20.04 y 7.37 0.9 0.8 0.7 0.6 0.7 0.6 0.7 0.7 0.7 0.8 0.7 0.9 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.1 0.0 0.5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	0.496
SAR 10g(W/kg)	0.318

GPRS1900 body Back CH810	
Frequency(MHz)	1909.8
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	-3.654
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
## See See . ## See See . ## See .	1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
SAR 1g(W/kg)	0.726
SAR 10g(W/kg)	0.408

GPRS1900 body Left CH810	
Frequency(MHz)	1909.8
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	0.556
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
Am. Sec. Am. Se	SAR-Z Axis at Hotspot x10.07 y-0.14 0.55 0.50 0.45 0.40 0.35 0.25 0.20 0.15 0.10 0.05 0.00 0.5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	0.301
SAR 10g(W/kg)	0.147

GPRS1900 boo	dy Right CH810
Frequency(MHz)	1909.8
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	1.787
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
Ans. Set.	SAR-Z Axis at Hotspet x 10.02 y-4.11 0.18 0.16 0.14 0.12 0.08 0.08 0.08 0.09 0.00 0.00 0.00 2 Distance (mm)
SAR 1g(W/kg)	0.078
SAR 10g(W/kg)	0.035

GPRS1900 bod	y Bottom CH810
Frequency(MHz)	1909.8
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	1.321
Duty Cycle Factor	2
Crest factor	2
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
All 1	0.35 0.30 0.25 0.15 0.10 0.10 0.05 0.00 0.5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	0.193
SAR 10g(W/kg)	0.093

GSM1900 body Back CH512+earphone	
Frequency(MHz)	1850.2
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	2.624
Duty Cycle Factor	8
Crest factor	8
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
SAR-Z Axis at Hotopot x18.02 y 9.89	
Ant. Sc One of the state of	0.7 0.6 0.5 0.8 0.3 0.2 0.1 0.0 0.5 10 15 20 25 30 20 25 30
SAR 1g(W/kg)	0.349
SAR 10g(W/kg)	0.160

WCDMA Band II	body Front CH9400
Frequency(MHz)	1880.0
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	2.158
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
Am Sur 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09	0.9 0.8 0.7 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0
SAR 1g(W/Kg)	0.628
SAR 10g(W/Kg)	0.409

WCDMA Band II	body Back CH9400
Frequency(MHz)	1880.0
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	-0.119
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
Area Scan 30 30 30 30 30 30 30 30 30 30 30 30 30	SAR-Z Axis at Hotspot x20 05 y-0.13 1.6 1.4 1.2 (b) WE 20 08 y-0.13 0.6 0.7 0.7 0.7 1.7 1.7 1.7 1.7 1.7
SAR 1g(W/Kg)	0.775
SAR 10g(W/Kg)	0.365

WCDMA Band II body Left CH9400	
Frequency(MHz)	1880.0
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	-0.082
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
Abo Sate. Grant Control of the Cont	SAR-Z Axis at Hotspot x10.06 y-0.14 0.8 0.7 0.6 0.5 0.7 0.6 0.7 0.7 0.7 0.8 0.7 0.9 0.9 0.9 0.9 0.9 0.9 0.9
SAR 1g(W/Kg)	0.455
SAR 10g(W/Kg)	0.219

WCDMA Band II	body Right CH9400
Frequency(MHz)	1880.0
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	-1.581
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
Ant Sec	0.25 0.20 0.10 0.05 0.10 0.15 0.00 0.10 0.15 0.10 0.15 0.10 0.15 0.10 0.15 0.15 0.10 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15
SAR 1g(W/Kg)	0.146
SAR 10g(W/Kg)	0.071

WCDMA Band II body Bottom CH9400	
Frequency(MHz)	1880.0
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	-1.670
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
FOL XC OUT OUT OUT OUT OUT OUT OUT OU	SAR-Z Axis # Hotspat x 10.12 y -0.20 0.55 0.50 0.45 0.40 0.35 0.20 0.15 0.10 0.05 0.00 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/Kg)	0.303
SAR 10g(W/Kg)	0.150

WCDMA Band II bo	dy Back CH9400+earphone
Frequency(MHz)	1880.0
Relative permittivity(real part)	52.93
Conductivity(S/m)	1.55
Variation(%)	-1.876
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	5.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
Area Scan 0.866 0.768 0.510 0.510 0.510 0.529 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.784 0.000 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0.510 0	SAR-Z Axis at Hotspot x 20.05 y-0.13 1.6 1.4 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0
SAR 1g(W/Kg)	0.732
SAR 10g(W/Kg)	0.358

WCDMA Band V body Front CH4132	
Frequency(MHz)	826.4
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	1.435
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
### \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25	SAR-Z Axis at Hotopet x 2.05 y -10.14 0.45 0.40 0.35 0.30 0.20 0.15 0.10 0.05 0.00 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/Kg)	0.332
SAR 10g(W/Kg)	0.212

WCDMA Band \	7 body Back CH4132
Frequency(MHz)	826.4
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	-0.057
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
Area Scan. On 16 On 20 On 2	0.8 0.7 0.5 0.5 0.3 0.2 0.1 0.0 0.5 10 15 20 25 30 25 30
SAR 1g(W/Kg)	0.534
SAR 10g(W/Kg)	0.342

WCDMA Band V body Left CH4132	
Frequency(MHz)	826.4
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	-0.763
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.35 0.30 0.25 0.15 0.10 0.00 0.15 0.00 0.15 0.00 0.15 0.00 0.15 0.00 0.15 0.00 0.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SAR 1g(W/Kg)	0.251
SAR 10g(W/Kg)	0.161

WCDMA Band V body Right CH4132	
Frequency(MHz)	826.4
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	-0.718
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
	SAR-Z Axis at Hotspot x7.99 g-0.10
Acres State. Compared to the	0.45 0.40 0.35 0.30 0.25 0.15 0.10 0.15 0.10 0.00 0.5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/Kg)	0.331
SAR 10g(W/Kg)	0.216

WCDMA Band V body Bottom CH4132	
Frequency(MHz)	826.4
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	-0.175
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
2000 2000 2000 2000 2000 2000 2000 200	SAR-Z Axis at Hotspot x -25.87 y-10.19 0.07 0.08 0.05 0.001 0.002 0.001 0.002 0.001 0.000 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/Kg)	0.035
SAR 10g(W/Kg)	0.014

WCDMA Band V body	y Back CH4132+earphone
Frequency(MHz)	826.4
Relative permittivity(real part)	53.32
Conductivity(S/m)	0.96
Variation(%)	-1.369
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	6.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-08
Area Scan October 1000 Area Scan October 1000 Area Scan October 1000 October 100	0.8 0.7 0.6 0.5 0.5 0.0 0.3 0.2 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0
SAR 1g(W/Kg)	0.521
SAR 10g(W/Kg)	0.338

802.11b body Front CH11	
Frequency(MHz)	2462
Relative permittivity(real part)	53.38
Conductivity(S/m)	1.94
Variation(%)	-2.764
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	4.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
	SAR-Z Axis at Hotepet x 0.05 y 9.886
Mais feed 3. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	0.18 0.16 0.14 0.14 0.00 0.08 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SAR 1g(W/kg)	0.089
SAR 10g(W/kg)	0.036

802.11b body Back CH11	
Frequency(MHz)	2462
Relative permittivity(real part)	53.38
Conductivity(S/m)	1.94
Variation(%)	-4.326
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	4.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
Area Scan 0.664 0.661 0.416 0.246 0.166 0.062 0.060 0.416 0.417 0.417 0.417 0.417 0.417 0.417	at Hotspot x 0.00 y-10.10 0.8 0.7 0.6 0.6 0.7 0.6 0.7 0.7 0.7
SAR 1g(W/kg)	0.283
SAR 10g(W/kg)	0.146

802.11b body Right CH11	
Frequency(MHz)	2462
Relative permittivity(real part)	53.38
Conductivity(S/m)	1.94
Variation(%)	2.838
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	4.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
Carl Carl Carl Carl Carl Carl Carl Carl	SAR-Z Axis at Hetapat x-10.01 y-0.10 0.45 0.40 0.35 0.30 0.5 0.10 0.10 0.15 0.10 0.5 0.00 5 10 15 20 25 30 Z Distance (mm)
SAR 1g(W/kg)	0.188
SAR 10g(W/kg)	0.068

802.11b body Bac	ck CH11+earphone
Frequency(MHz)	2462
Relative permittivity(real part)	53.38
Conductivity(S/m)	1.94
Variation(%)	-1.764
Duty Cycle Factor	1
Crest factor	1
Conversion Factor	4.4
Probe Sensitivity	1.20 1.20 1.20 µ V/(V/m)2
Data	2013-03-09
Area Scen. 2004 10.001 10.001 10.115 10.002 10.115 10.003 10.105 10.005 10.105 10.005 10.105 10.005 10.105 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.0	SAR-Z Axis at Hotspot x 0.00 y-10.10 0.8 0.7 0.6 0.7 0.6 0.7 0.7 0.7 0.7
SAR 1g(W/kg)	0.272
SAR 10g(W/kg)	0.131