





# SAR TEST REPORT

HCT CO., LTD

EUT Type:	GSM/WCDMA/LTE Phone with Bluetooth and WLAN	
FCC ID:	JYCP9070	
Model:	P9070	
Date of Issue:	Sept. 23, 2011	
Test report No.:	HCTA1107FS04	
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Testing has been carried out in accordance with:	RSS-102 Issue 4; Health Canada Safety Code 6 47CFR §2.1093 FCC OET Bulletin 65(Edition 97-01), Supplement C (Edition 01-01) ANSI/ IEEE C95.1 – 1992 IEEE 1528-2003	
Test result:	The tested device complies with the requirements in respect of all parameters subject to the test. The test results and statements relate only to the items tested. The test report shall not be reproduced except in full, without written approval of the laboratory.	
Signature	 _____ Report prepared by : Young-Soo Jang Test Engineer of SAR Part	 _____ Approved by : Jae-Sang So Manager of SAR Part

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# 1. INTRODUCTION

The FCC has adopted the guidelines for evaluating the environmental effects of radio frequency radiation in ET Docket 93-62 on Aug. 6, 1996 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices.

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. The measurement procedure described in IEEE/ANSI C95.3-1992 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave is used for guidance in measuring SAR due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86 NCRP, 1986, Bethesda, MD 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

## SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative of the incremental electromagnetic energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (r). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body.

$$SAR = \frac{d}{dt} \left( \frac{dU}{dm} \right) = \frac{d}{dt} \left( \frac{dU}{\rho dV} \right)$$

**Figure 2. SAR Mathematical Equation**

**SAR is expressed in units of Watts per Kilogram (W/kg).**

where:

$$SAR = \sigma E^2 / \rho$$

$\sigma$	=	conductivity of the tissue-simulant material (S/m)
$\rho$	=	mass density of the tissue-simulant material (kg/m <sup>3</sup> )
$E$	=	Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relations to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.

## 2. DESCRIPTION OF DEVICE

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

### 2.1 General Information

EUT Type	GSM/WCDMA/LTE Phone with Bluetooth and WLAN				
FCC ID:	JYCP9070				
Model:	P9070				
Trade Name	Pantech	Serial Number(s)	#1		
Application Type	Certification				
Mode(s) of Operation	GSM850/GSM1900/ WCDMA 850/ WCDMA1900/802.11bgn/LTE Band(17/5/4)				
Tx Frequency	824.20 - 848.80 MHz (GSM850) / 1 850.20 – 1 909.80 MHz (GSM1900) 826.4~846.6 MHz (WCDMA850)/ 1 852.4 – 1 907.6 MHz (WCDMA1900) 2 412- 2 462 MHz (WLAN) 704-716 MHz (LTE Band17), 824~849 MHz (LTE5), 1710~1755 MHz (LTE4)				
Rx Frequency	869.20 - 893.80 MHz (GSM850)/ 1 930.20 – 1 989.80 MHz (GSM1900) 871.4 - 891.6 MHz (WCDMA850)/ 1 932.4 – 1 987.6 MHz (WCDMA1900) 2 412- 2 462 MHz (WLAN) 734-746 MHz (LTE Band17), 869-894 MHz (LTE5), 2110-2155 MHz (LTE4)				
FCC Classification	Licensed Portable Transmitter Held to Ear (PCE)/ DSS/ DTS				
Production Unit	Prototype				
Max SAR	Band	Max. C/P (dBm)	1g SAR (W/kg)		
			Head	Body-worn	Hotspot
	GSM850	32.4	0.611	0.757	0.757
	GSM1900	30.33	0.618	0.400	0.76
	WCDMA850	23.60	0.748	0.727	0.727
	WCDMA1900	23.78	1.35	0.897	1.18
	802.11b	16.82	0.339	0.352	0.352
	LTE 17	23.33	0.547	0.607	0.607
LTE 5	23.47	0.698	0.595	0.595	
LTE 4	23.45	0.631	0.705	0.988	
Date(s) of Tests	Jul. 26, 2011 ~ Aug. 5, 2011				
Antenna Type	Intenna				
GPRS	Multislot Class: 10, Mode Class: B				
	Max number of uplink slot: 2				
	Max number of downlink slot: 4				
Max number of total active slot: 5					
Key Features;	Mobile Hotspot support (no power reduction)				

## 2.2 KDB 941225 LTE information

Frequency Range:	Band 17: 704MHz-716MHz Band 5: 824MHz-849MHz Band 4: 1710MHz-1755MHz																																																																
Channel Bandwidth:	5 MHz, 10 MHz																																																																
Channel Number & Frequency:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: yellow;"> <th colspan="4">Band 17</th> </tr> <tr style="background-color: #90EE90;"> <th colspan="2">5 MHz</th> <th colspan="2">10 MHz</th> </tr> <tr style="background-color: #90EE90;"> <th>Ch.</th> <th>Freq. (MHz)</th> <th>Ch.</th> <th>Freq. (MHz)</th> </tr> </thead> <tbody> <tr> <td>23790</td> <td>710</td> <td>23790</td> <td>710</td> </tr> <tr style="background-color: yellow;"> <th colspan="4">Band 5</th> </tr> <tr style="background-color: #90EE90;"> <th colspan="2">5 MHz</th> <th colspan="2">10 MHz</th> </tr> <tr style="background-color: #90EE90;"> <th>Ch.</th> <th>Freq. (MHz)</th> <th>Ch.</th> <th>Freq. (MHz)</th> </tr> <tr> <td>20425</td> <td>826.5</td> <td>20450</td> <td>829</td> </tr> <tr> <td>20525</td> <td>836.5</td> <td>20525</td> <td>836.5</td> </tr> <tr> <td>20625</td> <td>846.5</td> <td>20600</td> <td>844</td> </tr> <tr style="background-color: yellow;"> <th colspan="4">Band 4</th> </tr> <tr style="background-color: #90EE90;"> <th colspan="2">5 MHz</th> <th colspan="2">10 MHz</th> </tr> <tr style="background-color: #90EE90;"> <th>Ch.</th> <th>Freq. (MHz)</th> <th>Ch.</th> <th>Freq. (MHz)</th> </tr> <tr> <td>19975</td> <td>1712.5</td> <td>2000</td> <td>1715</td> </tr> <tr> <td>20175</td> <td>1732.5</td> <td>20175</td> <td>1732.5</td> </tr> <tr> <td>20375</td> <td>1752.5</td> <td>20350</td> <td>1750</td> </tr> </tbody> </table>	Band 17				5 MHz		10 MHz		Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	23790	710	23790	710	Band 5				5 MHz		10 MHz		Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	20425	826.5	20450	829	20525	836.5	20525	836.5	20625	846.5	20600	844	Band 4				5 MHz		10 MHz		Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	19975	1712.5	2000	1715	20175	1732.5	20175	1732.5	20375	1752.5	20350	1750
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20375	1752.5	20350	1750																																																														
UE Category & Uplink Modulation	UE Category 3                      QPSK, 16QAM																																																																
Power Class	UE Power Class 3																																																																
Description of the LTE Transmitter & antenna	<p>This model have two Tx antennas.</p> <ul style="list-style-type: none"> <li>- One for GSM, WCDMA and LTE. It can not transmit simultaneously.</li> <li>- Another is for BT/WLAN. . It can not transmit simultaneously.</li> </ul> <p>Please find the section 10.</p>																																																																
LTE voice/data requirements	<p>Data Only, Please find the section 10.</p> <p>LTE voice is available via VoIP. Considering the users may install 3<sup>rd</sup> party software to enable VoIP, LTE Head SAR is also evaluated.</p>																																																																
Identify if MPR is optional or mandatory	<p>The EUT incorporates MPR as per 3GPP TS36.101.</p> <p>The MPR is permanently built-in by design as a mandatory.</p> <p>A-MPR is not implemented.</p> <p>During SAR testing, A-MPR was disabled by setting NS=01 on the R&amp;S CMW500.</p>																																																																
Maximum average conducted output power (dBm)	<p>LTE B17:            23.33      LTE B5:            23.47      LTE B4:            23.45</p> <p>See section 9.4 RF output power measurements in the SAR report.</p>																																																																
Identify all other U.S. wireless operating modes, device exposure configurations and frequency bands	<ul style="list-style-type: none"> <li>- GSM850/1900, WCDMA850/1900 and LTE Band 17/5/4 : Head/Body worn and Hotspot SAR is required.</li> <li>- Bluetooth 2.4 GHz: BT SAR is not required as maximum output power &lt; 12 mW.</li> <li>- WiFi 2.4 GHz: Head/Body worn and Hotspot SAR is required.</li> </ul>																																																																
Maximum average conducted output power for other wireless mode and frequency	See section 9 RF output power measurements in the SAR report.																																																																
Simultaneous Transmission condition	See section 11 Simultaneous transmission conditions in the SAR report.																																																																
Power reduction explanation	This device doesn't implements power reduction.																																																																
Description of the test equipment,	LTE SAR Testing was performed using a CMW500.																																																																

## **3. DESCRIPTION OF TEST EQUIPMENT**

### **3.1 SAR MEASUREMENT SETUP**

These measurements are performed using the DASY4 automated dosimetric assessment system. It is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland. It consists of high precision robotics system (Staubli), robot controller, Pentium III computer, near-field probe, probe alignment sensor, and the generic twin phantom containing the brain equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF) (see Figure.3.1).

A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The PC consists of the HP Pentium IV 3.0 GHz computer with Windows XP system and SAR Measurement Software DASY4, A/D interface card, monitor, mouse, and keyboard. The Staubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

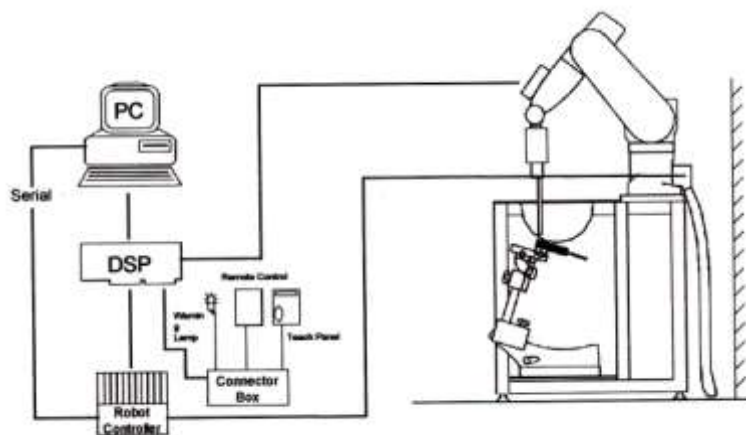


Figure 3.1 HCT SAR Lab. Test Measurement Set-up

The DAE4 consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer. The system is described in detail in.



## 3.2 DASY4 E-FIELD PROBE SYSTEM

### 3.2.1 ET3DV6 Probe Specification

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection System Built-in shielding against static charges
Calibration	In air from 10 MHz to 2.5 GHz In brain and muscle simulating tissue at Frequencies of 450 MHz, 900 MHz and 1.8 GHz (accuracy: 8 %)
Frequency	10 MHz to > 6 GHz; Linearity: $\pm 0.2$ dB (30 MHz to 3 GHz)
Directivity	$\pm 0.2$ dB in brain tissue (rotation around probe axis) $\pm 0.4$ dB in brain tissue (rotation normal probe axis)
Dynamic	5 $\mu$ W/g to > 100 mW/g;
Range Linearity:	$\pm 0.2$ dB
Surface Detection	$\pm 0.2$ mm repeatability in air and clear liquids over diffuse reflecting surfaces.
Dimensions	Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm Distance from probe tip to dipole centers: 2.7 mm
Application	General dissymmetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms



Figure 3.2 Photograph of the probe and the Phantom

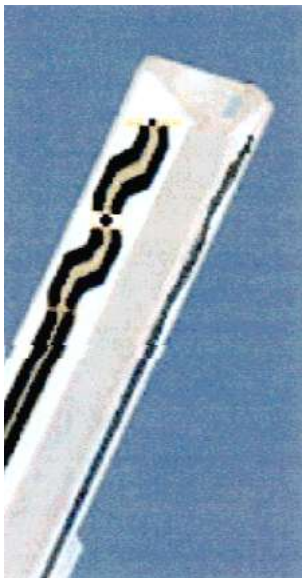


Figure 3.3 ET3DV6 E-field Probe

The SAR measurements were conducted with the dosimetric probe ET3DV6, designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multifiber line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches a maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY4 software reads the reflection during a software approach and looks for the maximum using a 2<sup>nd</sup> order fitting. The approach is stopped at reaching the maximum.

### 3.3 PROBE CALIBRATION PROCESS

#### 3.3.1 E-Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with an accuracy better than ± 10 %. The spherical isotropy was evaluated with the proper procedure and found to be better than ± 0.25 dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe is tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a waveguide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \frac{\Delta T}{\Delta t}$$

where:

- Δt = exposure time (30 seconds),
- C = heat capacity of tissue (brain or muscle),
- ΔT = temperature increase due to RF exposure.

SAR is proportional to ΔT/ Δt, the initial rate of tissue heating, before thermal diffusion takes place. Now it's possible to quantify the electric field in the simulated tissue by equating the thermally derived SAR to the E- field;

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

where:

- σ = simulated tissue conductivity,
- ρ = Tissue density (1.25 g/cm<sup>3</sup> for brain tissue)

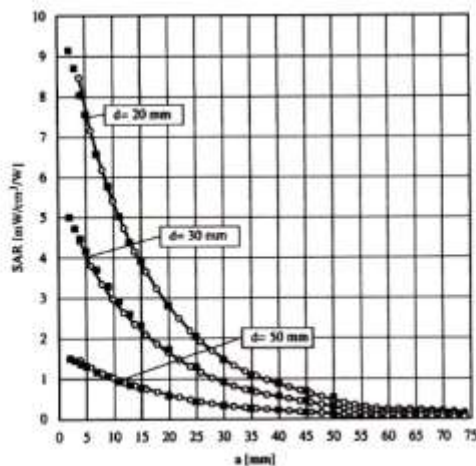


Figure 3.4 E-Field and Temperature measurements at 900 MHz

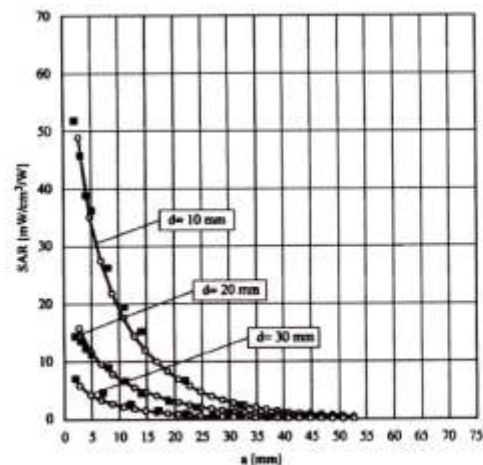


Figure 3.5 E-Field and temperature measurements at 1.8 GHz



### 3.3.2 Data Extrapolation

The DASY4 software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given like below;

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

with  $V_i$  = compensated signal of channel i (i=x,y,z)  
 $U_i$  = input signal of channel i (i=x,y,z)  
 $cf$  = crest factor of exciting field (DASY parameter)  
 $dcp_i$  = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$$

with  $V_i$  = compensated signal of channel i (i = x,y,z)  
 $Norm_i$  = sensor sensitivity of channel i (i = x,y,z)  
 $\mu V/(V/m)^2$  for E-field probes  
 $ConvF$  = sensitivity of enhancement in solution  
 $E_i$  = electric field strength of channel i in V/m

The RSS value of the field components gives the total field strength (Hermetian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

with  $SAR$  = local specific absorption rate in W/g  
 $E_{tot}$  = total field strength in V/m  
 $\sigma$  = conductivity in [mho/m] or [Siemens/m]  
 $\rho$  = equivalent tissue density in g/cm<sup>3</sup>

The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwr} = \frac{E_{tot}^2}{3770}$$

with  $P_{pwr}$  = equivalent power density of a plane wave in W/cm<sup>2</sup>  
 $E_{tot}$  = total electric field strength in V/m

### 3.4 SAM Phantom

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.



Figure 3.6 SAM Phantom

Shell Thickness	2.0 mm
Filling Volume	about 25 L
Dimensions	1 000 mm x 500 mm (L x W)

### 3.5 Device Holder for Transmitters

In combination with the SAM Phantom V 4.0, the Mounting Device (POM) enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeatably positioned according to the FCC and CENELEC specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).

Note: A simulating human hand is not used due to the complex anatomical and geometrical structure of the hand that may produce an infinite number of configurations. To produce the Worst-case condition (the hand absorbs antenna output power), the hand is omitted during the tests.



Figure 3.7 Device Holder

### 3.6 Brain & Muscle Simulating Mixture Characterization

The brain and muscle mixtures consist of a viscous gel using hydrox-ethyl cellulose (HEC) gelling agent and saline solution (see Table 3.1). Preservation with a bactericide is added and visual inspection is made to make sure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. The mixture characterizations used for the brain and muscle tissue simulating liquids are according to the data by C. Gabriel and G. Hartsgrove.

Ingredients (% by weight)	Frequency (MHz)											
	450		750		835		915		1 900		2 450	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	38.56	51.16	41.2	51.7	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2
Salt (NaCl)	3.95	1.49	1.4	1.0	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04
Sugar	56.32	46.78	57	47.2	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0
HEC	0.98	0.52	0.2	0.0	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0
Bactericide	0.19	0.05	0.2	0.1	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0
Triton X-100	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0
DGBE	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7

Salt: 99 % Pure Sodium Chloride                      Sugar: 98 % Pure Sucrose  
 Water: De-ionized, 16M resistivity                      HEC: Hydroxyethyl Cellulose  
 DGBE: 99 % Di(ethylene glycol) butyl ether,[2-(2-butoxyethoxy) ethanol]  
 Triton X-100(ultra pure): Polyethylene glycol mono[4-(1,1,3,3-tetramethylbutyl)phenyl] ether

**Table 3.1 Composition of the Tissue Equivalent Matter**

### 3.7 SAR TEST EQUIPMENT

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
Staubli	Robot RX90L	F01/5K09A1/A/01	N/A	N/A	N/A
Staubli	Robot ControllerCS7MB	F99/5A82A1/C/01	N/A	N/A	N/A
HP	Pavilion t000_puffer	KRJ51201TV	N/A	N/A	N/A
SPEAG	Light Alignment Sensor	265	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D221340.01	N/A	N/A	N/A
SPEAG	DAE3	466	Mar. 1, 2011	Annual	Mar. 1, 2012
SPEAG	E-Field Probe ET3DV6	1798	Apr. 14, 2011	Annual	Apr. 14, 2012
SPEAG	Validation Dipole D835V2	441	May 16, 2011	Annual	May 16, 2012
SPEAG	Validation Dipole D750V2	1014	July 25, 2011	Annual	July 25, 2012
SPEAG	Validation Dipole D1800V2	2d007	Apr. 19, 2011	Annual	Apr. 19, 2012
SPEAG	Validation Dipole D1900V2	5d032	July 22, 2011	Annual	July 22, 2012
SPEAG	Validation Dipole D2450V2	743	Aug. 25, 2010	Annual	Aug. 25, 2011
Agilent	Power Meter(F) E4419B	MY41291386	Nov. 05, 2010	Annual	Nov. 05, 2011
Agilent	Power Sensor(G) 8481	MY41090870	Nov. 05, 2010	Annual	Nov. 05, 2011
HP	Dielectric Probe Kit 85070C	00721521	N/A	N/A	N/A
HP	Dual Directional Coupler	16072	Nov. 05, 2010	Annual	Nov. 05, 2011
R&S	Base Station CMU200	110740	July 26, 2011	Annual	July 26, 2012
Agilent	Base Station E5515C	GB44400269	Feb. 10, 2011	Annual	Feb. 10, 2012
HP	Signal Generator E4438C	MY42082646	Nov. 11, 2010	Annual	Nov. 11, 2011
HP	Network Analyzer 8753ES	JP39240221	Mar. 30, 2011	Annual	Mar. 30, 2012
R&S	Base Station CMW500	103953	Apr. 20, 2011	Annual	Apr. 20, 2012

**NOTE:**

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

## 4. SAR MEASUREMENT PROCEDURE

The evaluation was performed with the following procedure:

1. The SAR value at a fixed location above the ear point was measured and was used as a reference value for assessing the power drop.
2. The SAR distribution at the exposed side of the head was measured at a distance of 3.9 mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15 mm x 15 mm. Based on this data, the area of the maximum absorption was determined by spline interpolation.
3. Around this point, a volume of 32 mm x 32 mm x 30 mm was assessed by measuring 5 x 5 x 7 points. On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:
  - a. The data at the surface were extrapolated, since the center of the dipoles is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
  - b. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions. The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
  - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR value, at the same location as procedure #1, was re-measured. If the value changed by more than 5 %, the evaluation is repeated.

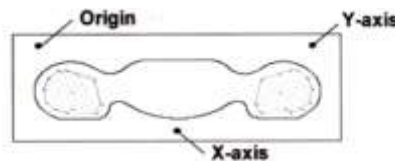


Figure 4.1 SAR Measurement Point in Area Scan

## 5. DESCRIPTION OF TEST POSITION

### 5.1 HEAD POSITION

The device was placed in a normal operating position with the Point A on the device, as illustrated in following drawing, aligned with the location of the RE(ERP) on the phantom. With the ear-piece pressed against the head, the vertical center line of the body of the handset was aligned with an imaginary plane consisting of the RE, LE and M. While maintaining these alignments, the body of the handset was gradually moved towards the cheek until any point on the mouth-piece or keypad contacted the cheek. This is a cheek/touch position. For ear/tilt position, while maintain the device aligned with the BM and FN lines, the device was pivot against ERP back for 15° or until the device antenna touch the phantom. Please refer to IEEE 1528-2003 illustration below.

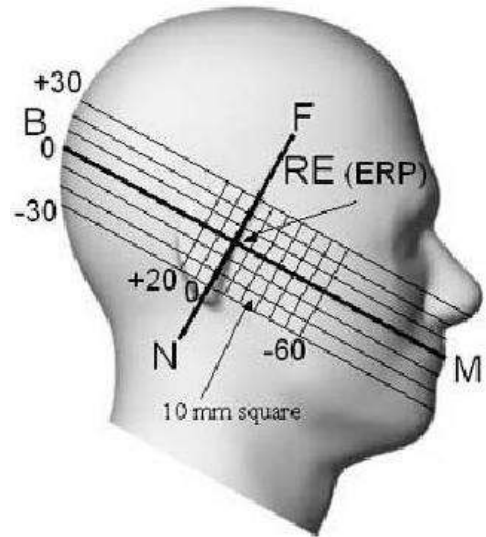


Figure 5.1 Side view of the phantom

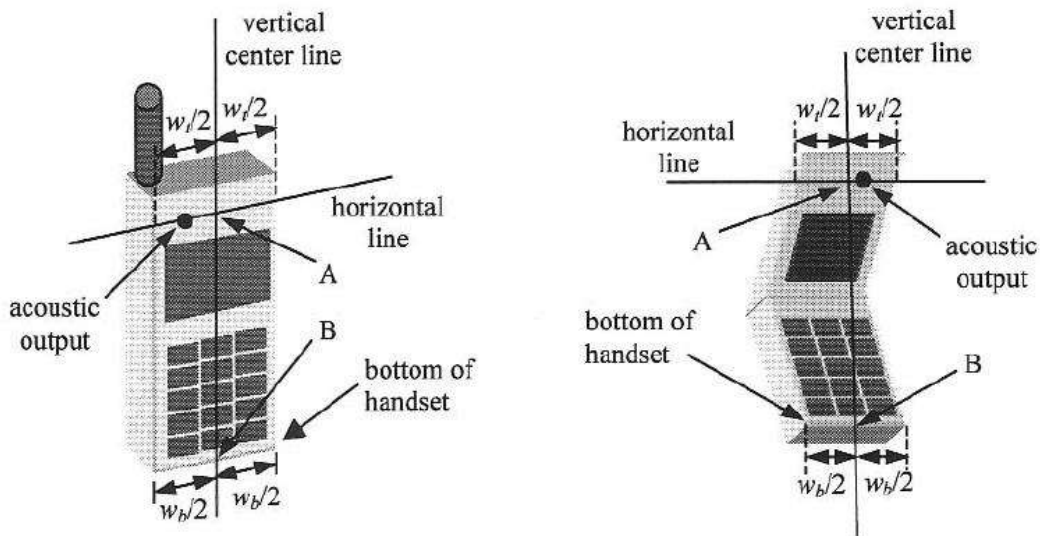


Figure 5.2 Handset vertical and horizontal reference lines



## **5.2 Body Holster/Belt Clip Configurations**

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. A device with a headset output is tested with a headset connected to the device. Body dielectric parameters are used.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with each accessory. If multiple accessory share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some Devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used.

Since this EUT does not supply any body worn accessory to the end user a distance of 1.0 cm from the EUT back surface to the liquid interface is configured for the generic test.

"See the Test SET-UP Photo"

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessory(ies), including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

In all cases SAR measurements are performed to investigate the worst-case positioning. Worstcase positioning is then documented and used to perform Body SAR testing.

## 6. MEASUREMENT UNCERTAINTY

Error Description	Tol (± %)	Prob. dist.	Div.	$c_i$	Standard Uncertainty (± %)	$V_{eff}$
<b>1. Measurement System</b>						
Probe Calibration	6.00	N	1	1	6.00	∞
Axial Isotropy	4.70	R	1.73	0.7	1.90	∞
Hemispherical Isotropy	9.60	R	1.73	0.7	3.88	∞
Boundary Effects	1.00	R	1.73	1	0.58	∞
Linearity	4.70	R	1.73	1	2.71	∞
System Detection Limits	1.00	R	1.73	1	0.58	∞
Readout Electronics	0.30	N	1.00	1	0.30	∞
Response Time	0.8	R	1.73	1	0.46	∞
Integration Time	2.6	R	1.73	1	1.50	∞
RF Ambient Conditions	3.00	R	1.73	1	1.73	∞
Probe Positioner	0.40	R	1.73	1	0.23	∞
Probe Positioning	2.90	R	1.73	1	1.67	∞
Max SAR Eval	1.00	R	1.73	1	0.58	∞
<b>2. Test Sample Related</b>						
Device Positioning	2.90	N	1.00	1	2.90	145
Device Holder	3.60	N	1.00	1	3.60	5
Power Drift	5.00	R	1.73	1	2.89	∞
<b>3. Phantom and Setup</b>						
Phantom Uncertainty	4.00	R	1.73	1	2.31	∞
Liquid Conductivity(target)	5.00	R	1.73	0.64	1.85	∞
Liquid Conductivity(meas.)	2.07	N	1	0.64	1.32	9
Liquid Permittivity(target)	5.00	R	1.73	0.6	1.73	∞
Liquid Permittivity(meas.)	5.02	N	1	0.6	3.01	9
<b>Combine Standard Uncertainty</b>					11.13	
<b>Coverage Factor for 95 %</b>					$k = 2$	
<b>Expanded STD Uncertainty</b>					22.25	

Table 6.1 Uncertainty (800 MHz- 2450 MHz)

<b>Error Description</b>	<b>Tol (± %)</b>	<b>Prob. dist.</b>	<b>Div.</b>	<b>c<sub>i</sub></b>	<b>Standard Uncertainty (± %)</b>	<b>V<sub>eff</sub></b>
<b>1. Measurement System</b>						
Probe Calibration	7.00	N	1	1	7.00	∞
Axial Isotropy	4.70	R	1.73	0.7	1.90	∞
Hemispherical Isotropy	9.60	R	1.73	0.7	3.88	∞
Boundary Effects	1.00	R	1.73	1	0.58	∞
Linearity	4.70	R	1.73	1	2.71	∞
System Detection Limits	1.00	R	1.73	1	0.58	∞
Readout Electronics	0.30	N	1.00	1	0.30	∞
Response Time	0.8	R	1.73	1	0.46	∞
Integration Time	2.6	R	1.73	1	1.50	∞
RF Ambient Conditions	3.00	R	1.73	1	1.73	∞
Probe Positioner	0.40	R	1.73	1	0.23	∞
Probe Positioning	2.90	R	1.73	1	1.67	∞
Max SAR Eval	1.00	R	1.73	1	0.58	∞
<b>2. Test Sample Related</b>						
Device Positioning	2.90	N	1.00	1	2.90	145
Device Holder	3.60	N	1.00	1	3.60	5
Power Drift	5.00	R	1.73	1	2.89	∞
<b>3. Phantom and Setup</b>						
Phantom Uncertainty	4.00	R	1.73	1	2.31	∞
Liquid Conductivity(target)	5.00	R	1.73	0.64	1.85	∞
Liquid Conductivity(meas.)	2.07	N	1	0.64	1.32	9
Liquid Permittivity(target)	5.00	R	1.73	0.6	1.73	∞
Liquid Permittivity(meas.)	5.02	N	1	0.6	3.01	9
<b>Combine Standard Uncertainty</b>					11.70	
<b>Coverage Factor for 95 %</b>					k = 2	
<b>Expanded STD Uncertainty</b>					23.39	

**Table 6.2 Uncertainty (750 MHz)**

## 7. ANSI/ IEEE C95.1 - 1992 RF EXPOSURE LIMITS

HUMAN EXPOSURE	UNCONTROLLED ENVIRONMENT General Population (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT Occupational (W/kg) or (mW/g)
SPATIAL PEAK SAR * (Brain)	1.60	8.00
SPATIAL AVERAGE SAR ** (Whole Body)	0.08	0.40
SPATIAL PEAK SAR *** (Hands / Feet / Ankle / Wrist)	4.00	20.00

**Table 7.1 Safety Limits for Partial Body Exposure**

**NOTES:**

\* The Spatial Peak value of the SAR averaged over any 1 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

\*\* The Spatial Average value of the SAR averaged over the whole-body.

\*\*\* The Spatial Peak value of the SAR averaged over any 10 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

**Uncontrolled Environments** are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

**Controlled Environments** are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e.as a result of employment or occupation).

## 8. SYSTEM VERIFICATION

### 8.1 Tissue Verification

Band	Freq. [MHz]	Date	Liquid	Liquid Temp.[°C]	Parameters	Target Value	Measured Value	Deviation [%]	Limit [%]
LTE B17	750	Aug.03, 2011	Head	21.2	$\epsilon_r$	41.9	42.2	0.72	$\pm 5$
					$\sigma$	0.89	0.866	-2.70	$\pm 5$
	750	Aug.02, 2011	Body	21.3	$\epsilon_r$	55.5	54.7	-1.44	$\pm 5$
					$\sigma$	0.96	0.969	+0.94	$\pm 5$
GSM/WCDMA 850	835	Jul.29, 2011	Head	21.3	$\epsilon_r$	41.5	43	+3.61	$\pm 5$
					$\sigma$	0.90	0.901	+0.11	$\pm 5$
	835	Jul.29, 2011	Body	21.3	$\epsilon_r$	55.2	55.9	+1.27	$\pm 5$
					$\sigma$	0.97	0.95	-2.06	$\pm 5$
LTE B5	835	Aug.04, 2011	Head	21.3	$\epsilon_r$	41.5	43.1	3.86	$\pm 5$
					$\sigma$	0.90	0.911	1.22	$\pm 5$
	835	Jul.29, 2011	Body	21.3	$\epsilon_r$	55.2	55.9	+1.27	$\pm 5$
					$\sigma$	0.97	0.95	-2.06	$\pm 5$
LTE B4	1750	Aug.05, 2011	Head	21.3	$\epsilon_r$	40.5	39.8	-1.73	$\pm 5$
					$\sigma$	1.37	1.4	2.19	$\pm 5$
	1750	Jul.26, 2011	Body	21.2	$\epsilon_r$	53.4	53.6	+0.37	$\pm 5$
					$\sigma$	1.49	1.52	+2.01	$\pm 5$
GSM/WCDMA 1900	1900	Aug. 1, 2011	Head	21.2	$\epsilon_r$	40.0	39.2	-2.00	$\pm 5$
					$\sigma$	1.40	1.43	+2.14	$\pm 5$
	1900	Aug. 1, 2011	Body	21.2	$\epsilon_r$	53.3	55.2	+3.56	$\pm 5$
					$\sigma$	1.52	1.48	-2.63	$\pm 5$
WLAN	2450	Jul.28, 2011	Head	21.2	$\epsilon_r$	39.2	39.3	+0.26	$\pm 5$
					$\sigma$	1.80	1.77	-1.67	$\pm 5$
	2450	Jul.28, 2011	Body	21.2	$\epsilon_r$	52.7	51.7	-1.90	$\pm 5$
					$\sigma$	1.95	1.96	+0.51	$\pm 5$

The dielectronic parameters of the liquids were verified prior to the SAR evaluation using an Agilent 85070C Dielectronic Probe Kit and Agilent Network Analyzer.

## 8.2 System Validation

Prior to assessment, the system is verified to the  $\pm 10\%$  of the specifications at 750 MHz/ 835 MHz /1 700 MHz /1 900 MHz/ 2 450 MHz by using the system validation kit. (Graphic Plots Attached) \* Input Power: 100 m W

Probe (SN)	Freq. [MHz]	Date	Liquid	Liquid Temp. [°C]	SAR Average	Target Value (SPEAG) (mW/g)	*Measured Value (mW/g)	Deviation [%]	Limit [%]
1798	750	Aug.03, 2011	Head	21.2	1 g	8.44	0.825	- 2.25	$\pm 10$
	750	Aug.02, 2011	Body	21.3	1 g	8.87	0.878	- 1.01	$\pm 10$
	835	Jul.29, 2011	Head	21.3	1 g	9.34	0.956	+ 2.36	$\pm 10$
	835	Jul.29, 2011	Body	21.3	1 g	9.45	0.940	- 0.53	$\pm 10$
	835	Aug.04, 2011	Head	21.3	1 g	9.34	0.958	+ 2.57	$\pm 10$
	835	Jul.29, 2011	Body	21.3	1 g	9.45	0.949	+ 0.42	$\pm 10$
	1750	Aug.05, 2011	Head	21.3	1 g	39.8	4.05	+ 1.76	$\pm 10$
	1750	Jul.26, 2011	Body	21.2	1 g	37.3	3.7	- 0.80	$\pm 10$
	1 900	Aug. 1, 2011	Head	21.2	1 g	39.9	3.99	+ 0.00	$\pm 10$
	1 900	Aug. 1, 2011	Body	21.2	1 g	40.9	4.24	+ 3.67	$\pm 10$
	2 450	Jul.28, 2011	Head	21.2	1 g	54	5.33	- 1.30	$\pm 10$
	2 450	Jul.28, 2011	Body	21.2	1 g	54	5.52	+ 2.22	$\pm 10$

## 8.3 System Validation Procedure

SAR measurement was Prior to assessment, the system is verified to the  $\pm 10\%$  of the specifications at target frequency by using the system validation kit. (Graphic Plots Attached)

- Cabling the system, using the validation kit equipments.
- Generate about 100 mW Input Level from the Signal generator to the Dipole Antenna.
- Dipole Antenna was placed below the Flat phantom.
- The measured one-gram SAR at the surface of the phantom above the dipole feed-point should be within 10 % of the target reference value.



## 9. RF CONDUCTED POWER MEASUREMENT

Power measurements were performed using a base station simulator under digital average power. The handset was placed into a simulated call using a base station simulator in a shielded chamber. Such test signals offer a consistent means for testing SAR and are recommended for evaluation SAR. SAR measurements were taken with a fully charged battery. In order to verify that the device was tested and maintained at full power, this was configured with the base station simulator. The SAR measurement Software calculates a reference point at the start and end of the test to check for power drifts. If conducted Power deviations of more than 5 % occurred, the tests were repeated.

Conducted output power measurements were performed using a base station simulator under digital average power.



SAR Test for WWAN were performed with a base station simulator Agilent E5515C. Communication between the device and the emulator was established by air link. Set base station emulator to allow DUT to radiate maximum output power during all tests.

### 9.1 GSM

Please refer to the below worst case SAR operation setup.

- GSM voice: Head SAR with CS 1
- GPRS Multi-slot Class 10: Body SAR with MCS 1 (GMSK)

Maximum average GSM Conducted output powers (**Burst-Average**)

Band	Channel	GSM Voice	GPRS(GMSK) Data-CS1		EDGE(8PSK) Data-MCS5	
		CS 1 Slot (dBm)	GPRS 1 TX Slot (dBm)	GPRS 2 TX Slot (dBm)	EDGE 1 TX Slot (dBm)	EDGE 2 TX Slot (dBm)
GSM 850	128	32.4	32.4	30.56	27.4	24.8
	190	32.33	32.33	30.52	27.4	24.78
	251	32.08	32.08	30.49	27.38	24.77
GSM 1900	512	30.23	30.23	27.49	26.19	24.53
	661	30.29	30.29	27.85	26.26	24.59
	810	30.33	30.32	27.59	25.93	24.28

**Maximum average GSM Conducted output powers (Frame-Average)**

Band	Channel	GSM Voice	GPRS(GMSK) Data-CS1		EDGE(8PSK) Data-MCS5	
		CS 1 Slot (dBm)	GPRS 1 TX Slot (dBm)	GPRS 2 TX Slot (dBm)	EDGE 1 TX Slot (dBm)	EDGE 2 TX Slot (dBm)
GSM 850	128	23.37	23.37	24.54	18.37	18.78
	190	23.3	23.3	24.5	18.37	18.76
	251	23.05	23.05	24.47	18.35	18.75
GSM 1900	512	21.2	21.2	21.47	17.16	18.51
	661	21.26	21.26	21.83	17.23	18.57
	810	21.3	21.29	21.57	16.9	18.26

**Note:**

Time slot average factor is as follows:

1 Tx slot = 9.03 dB, Frame-Average output power = Burst-Average output power – 9.03 dB

2 Tx slot = 6.02 dB, Frame-Average output power = Burst-Average output power – 6.02 dB

## 9.2 WCDMA

Body SAR is not required for handsets with HSDPA capabilities when the maximum average output of each RF channel with HSDPA active is less than ¼ dB higher than that measured without HSDPA using 12.2 kbps RMC and the maximum SAR for 12.2 kbps RMC is  $\leq 75\%$  of the SAR limit. Otherwise, SAR is Measured for HSDPA, using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, using the highest body SAR configuration in 12.2 kbps RMC without HSDPA, on the maximum output channel with the body exposure configuration that results in the highest SAR in 12.2 kbps RMC for that RF channel.

### 9.2.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3 GPP TS 34.121, using the appropriate RMC or AMR with TPC(transmit power control) set to all “1s”.

### 9.2.2 Head SAR Measurements

SAR for head exposure configurations is measured using the 12.2 kbps RMC with TPC bits configured to all “1s”. SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2 kbps AMR is less than ¼ dB higher than that measured in 12.2 kbps RMC. Otherwise, SAR is measured on the maximum output channel in 12.2 AMR with a 3.4 kbps SRB (signaling radio bearer using the exposure configuration that results in the highest SAR for that RF channel in 12.2 RMC.

### 9.2.3 Body SAR Measurement

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”.

## 9.2.4 Handsets with Release 5 HSDPA

Body SAR is not required for handsets with HSDPA capabilities when the maximum average output of each RF channel with HSDPA active is less than ¼ dB higher than that measured without HSDPA using 12.2 kbps RMC and the maximum SAR for 12.2 kbps RMC is  $\leq 75\%$  of the SAR limit. Otherwise, SAR is Measured for HSDPA, using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, using the highest body SAR configuration in 12.2 kbps RMC without HSDPA, on the maximum output channel with the body exposure configuration that results in the highest SAR in 12.2 kbps RMC for that RF channel.

**Sub-Test 1 Setup for Release 5 HSDPA**

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{hs}^{(1)}$	CM (dB) <sup>(2)</sup>
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 <sup>(3)</sup>	15/15 <sup>(3)</sup>	64	12/15 <sup>(3)</sup>	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$   
 Note 2: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ .  
 Note 3: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

## 9.2.5 Handsets with Release 6 HSPA (HSDPA/HSUPA)

Body SAR is not required for handsets with HSPA capabilities when the maximum average output of each RF channel with HSUPA/HSDPA active is less than ¼ dB higher than that measured without HSUPA/HSDPA using 12.2 kbps RMC and the maximum SAR for 12.2 kbps RMC is  $\leq 75\%$  of the SAR limit. Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 with power control algorithm 2, according to the highest body SAR configuration in 12.1 kbps RMC without HSPA. When VOIP is applicable for head exposure, SAR is not required when the maximum output of each RF channel with HSPA is less than ¼ dB higher than that measured using 12.2 kbps RMC; otherwise, the same HSPA configuration used for body measurement should be used to test for head exposure.

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{hs}^{(1)}$	$\beta_{ec}$	$\beta_{ed}$	$\beta_{ed}$ (SF)	$\beta_{ed}$ (codes)	CM <sup>(2)</sup> (dB)	MPR (dB)	AG <sup>(4)</sup> Index	E-TFCI
1	11/15 <sup>(3)</sup>	15/15 <sup>(3)</sup>	64	11/15 <sup>(3)</sup>	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 <sup>(4)</sup>	15/15 <sup>(4)</sup>	64	15/15 <sup>(4)</sup>	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$ .  
 Note 2: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.  
 Note 3: For subtest 1 the  $\beta_c/\beta_d$  ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 10/15$  and  $\beta_d = 15/15$ .  
 Note 4: For subtest 5 the  $\beta_c/\beta_d$  ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 14/15$  and  $\beta_d = 15/15$ .  
 Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.  
 Note 6:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]						MPR
			UL 4132 (826.4)	Power reduction (dB)	UL 4183 (836.6)	Power reduction (dB)	UL 4233 (846.6)	Power reduction (dB)	
99	WCDMA	12.2 kbps	23.51		23.6		23.52		-
5	HSDPA	Subtest 1	23		23.1		23.16		0
5		Subtest 2	23.01	-0.01	23	0.1	23.16	0	0
5		Subtest 3	22.53	0.47	22.54	0.56	22.55	0.61	0.5
5		Subtest 4	22.61	0.39	22.49	0.61	22.62	0.54	0.5
6	HSUPA	Subtest 1	22.83		22.86		22.7		0
6		Subtest 2	21.76	1.07	21.52	1.34	21.72	0.98	2
6		Subtest 3	21.92	0.91	21.73	1.13	22.03	0.67	1
6		Subtest 4	21.83	1	21.86	1	21.81	0.89	2
6		Subtest 5	23.06	-0.23	22.28	0.58	22.57	0.13	0

3GPP Release Version	Mode	3GPP 34.121 Subtest	PCS Band [dBm]						MPR
			UL 9262 (1852.4)	Power reduction (dB)	UL 9400 (1880.0)	Power reduction (dB)	UL 9538 (1907.6)	Power reduction (dB)	
99	WCDMA	12.2 kbps	23.75		23.78		23.76		-
5	HSDPA	Subtest 1	23.25		23.26		23.2		0
5		Subtest 2	23.32	-0.07	23.32	-0.06	23.19	0.01	0
5		Subtest 3	22.88	0.37	22.84	0.42	22.65	0.55	0.5
5		Subtest 4	22.83	0.42	22.87	0.39	22.66	0.54	0.5
6	HSUPA	Subtest 1	23.34		22.82		22.93		0
6		Subtest 2	21.97	1.37	21.78	1.04	21.82	1.11	2
6		Subtest 3	22.29	1.05	22.29	0.53	22.07	0.86	1
6		Subtest 4	22.42	0.92	21.95	0.87	22.14	0.79	2
6		Subtest 5	23.21	0.13	22.7	0.12	22.94	-0.01	0

WCDMA Average Conducted output powers

## 9.3 WiFi

### 9.3.1 SAR Testing for 802.11a/b/g/n modes

#### General Device Setup

Normal Network operating configurations are not suitable for measuring the SAR of 802.11 a/b/g transmitters. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable.

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

#### Frequency Channel Configurations

802.11 a/b/g and 4.9 GHz operating modes are tested independently according to the service requirements in each frequency band. 802.11 b/g modes are tested on channels 1, 6 and 11. 802.11a is tested for UNII operations on channels 36 and 48 in the 5.15-5.25 GHz band; channels 52 and 64 in the 5.25-5.35 GHz band; Channels 104, 116, 124 and 136 in the 5.470-5.725 GHz band; and channels 149 and 161 in the 5.8 GHz band. When 5.8 GHz § 15.247 is also available, channels 149, 157 and 165 should be tested instead of the UNII channels. 4.9 GHz is tested on channels 1, 10 and 5 or 6, whichever has the higher output power, for 5 MHz channels; channels 11,15 and 19 for 10 MHz channels; and channels 21 and 25 for 20 MHz channels.

These are referred to as the “default test channels”. 802.11g mode was evaluated only if the output power was 0.25 dB higher than the 802.11b mode.

Mode	GHz	Channel	Turbo Channel	"Default Test Channels"		
				§15.247		UNII
				802.11b	802.11g	
802.11 b/g	2.412	1		√	∇	
	2.437	6	6	√	∇	
	2.462	11		√	∇	
802.11a	5.18	36				√
	5.20	40	42 (5.21 GHz)			-
	5.22	44				-
	5.24	48	50 (5.25 GHz)			√
	5.26	52				√
	5.28	56	58 (5.29 GHz)			-
	5.30	60				-
	5.32	64				√
	5.500	100	Unknown			-
	5.520	104				√
	5.540	108				-
	5.560	112				-
	5.580	116				√
	5.600	120				-
	5.620	124				√
	5.640	128				-
	5.660	132			-	
	5.680	136			√	
	5.700	140			-	
UNII or §15.247	5.745	149		√		√
	5.765	153	152 (5.76 GHz)		-	-
	5.785	157		√		-
	5.805	161	160 (5.80 GHz)		-	√
§15.247	5.825	165		√		

802.11 Test Channels per FCC Requirements

Band	Channel	Conducted Power (dBm)			
		Data Rate (Mbps)			
		1	2	5.5	11
IEEE 802.11b	1	16.66	16.48	15.87	14.78
	6	16.82	16.45	15.68	14.87
	11	16.66	16.14	15.39	14.29

Average IEEE 802.11b Conducted output power

Band	Channel	Conducted Power (dBm)							
		Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
IEEE 802.11g	1	13.58	12.82	12.34	11.56	10.73	9.52	8.80	8.46
	6	13.27	12.91	12.30	11.33	10.48	9.25	8.51	8.15
	11	13.02	12.46	12.19	11.22	10.36	9.14	8.39	8.07

Average IEEE 802.11g Conducted output power

Band	Channel	Conducted Power (dBm)							
		Data Rate (Mbps)							
		6.5	13	20	26	39	52	58	65
IEEE 802.11n (HT-20)	1	13.26	12.27	11.34	10.48	9.49	8.53	8.24	7.99
	6	13.20	12.21	11.02	10.37	9.19	8.40	8.13	7.68
	11	13.00	11.97	10.98	10.12	8.98	8.21	7.70	7.44

Average IEEE 802.11n Conducted output power

Note;  
SAR testing was performed according to the FCC KDB 248227.



## 9.4 LTE

SAR testing was performed according to the FCC KDB 941225 D05 publication.

The JYCP9070 developed base on MPR. The MPR is mandatory.

The device will not operate with any other MPR setting than that stated in the table as indicated.

SAR Testing was performed using a CMW500. UE transmits with Maximum output power during SAR testing.

A-MPR has been disabled for all SAR tests by setting NS=01 on the R&S CMW500.

### B17 10MHz

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
710	23790	QPSK	10MHz	1	0	<b>23.23</b>	0	0
710	23790	16QAM	10MHz	1	0	22.26	1	0.97
710	23790	QPSK	10MHz	1	49	22.89	0	0.34
710	23790	16QAM	10MHz	1	49	21.86	1	1.37
710	23790	QPSK	10MHz	25	13	21.91	1	1.32
710	23790	16QAM	10MHz	25	13	21.29	2	1.94
710	23790	QPSK	10MHz	50	0	21.87	1	1.36
710	23790	16QAM	10MHz	50	0	21.06	2	2.17

### B5 10MHz 20450CH

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
829	20450	QPSK	10MHz	1	0	22.98	0	0.32
829	20450	16QAM	10MHz	1	0	21.84	1	1.46
829	20450	QPSK	10MHz	1	49	<b>23.3</b>	0	0
829	20450	16QAM	10MHz	1	49	22.12	1	1.18
829	20450	QPSK	10MHz	25	13	22.06	1	1.24
829	20450	16QAM	10MHz	25	13	21.19	2	2.11
829	20450	QPSK	10MHz	50	0	21.99	1	1.31
829	20450	16QAM	10MHz	50	0	21.04	2	2.26

**B5 10MHz 20525CH**

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
836.5	20525	QPSK	10MHz	1	0	<b>23.47</b>	0	0
836.5	20525	16QAM	10MHz	1	0	22.24	1	1.23
836.5	20525	QPSK	10MHz	1	49	22.69	0	0.78
836.5	20525	16QAM	10MHz	1	49	21.67	1	1.8
836.5	20525	QPSK	10MHz	25	13	22	1	1.47
836.5	20525	16QAM	10MHz	25	13	21.23	2	2.24
836.5	20525	QPSK	10MHz	50	0	22.41	1	1.06
836.5	20525	16QAM	10MHz	50	0	21.34	2	2.13

**B5 10MHz 20600CH**

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
844	20600	QPSK	10MHz	1	0	<b>22.99</b>	0	0
844	20600	16QAM	10MHz	1	0	21.82	1	1.17
844	20600	QPSK	10MHz	1	49	22.93	0	0.06
844	20600	16QAM	10MHz	1	49	21.74	1	1.25
844	20600	QPSK	10MHz	25	13	22.39	1	0.6
844	20600	16QAM	10MHz	25	13	21.4	2	1.59
844	20600	QPSK	10MHz	50	0	22.04	1	0.95
844	20600	16QAM	10MHz	50	0	21.33	2	1.66

**B4 10MHz 20000CH**

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
1715	20000	QPSK	10MHz	1	0	<b>23.31</b>	0	0
1715	20000	16QAM	10MHz	1	0	22.19	1	1.12
1715	20000	QPSK	10MHz	1	49	23.3	0	0.01
1715	20000	16QAM	10MHz	1	49	22.18	1	1.13
1715	20000	QPSK	10MHz	25	13	22.41	1	0.9
1715	20000	16QAM	10MHz	25	13	21.42	2	1.89
1715	20000	QPSK	10MHz	50	0	22.48	1	0.83
1715	20000	16QAM	10MHz	50	0	21.56	2	1.75

B4 10MHz 20175CH

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
1732.5	20175	QPSK	10MHz	1	0	<b>23.45</b>	0	0
1732.5	20175	16QAM	10MHz	1	0	22.21	1	1.24
1732.5	20175	QPSK	10MHz	1	49	23.44	0	0.01
1732.5	20175	16QAM	10MHz	1	49	22.14	1	1.31
1732.5	20175	QPSK	10MHz	25	13	22.24	1	1.21
1732.5	20175	16QAM	10MHz	25	13	21.25	2	2.2
1732.5	20175	QPSK	10MHz	50	0	22.37	1	1.08
1732.5	20175	16QAM	10MHz	50	0	21.34	2	2.11

B4 10MHz 20350CH

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
1750	20350	QPSK	10MHz	1	0	23.18	0	0.02
1750	20350	16QAM	10MHz	1	0	22.43	1	0.77
1750	20350	QPSK	10MHz	1	49	<b>23.2</b>	0	0
1750	20350	16QAM	10MHz	1	49	22.49	1	0.71
1750	20350	QPSK	10MHz	25	13	22.19	1	1.01
1750	20350	16QAM	10MHz	25	13	21.22	2	1.98
1750	20350	QPSK	10MHz	50	0	22.34	1	0.86
1750	20350	16QAM	10MHz	50	0	21.35	2	1.85

B17 5MHz

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
710	23790	QPSK	5MHz	1	0	<b>23.33</b>	0	0
710	23790	16QAM	5MHz	1	0	22.15	1	1.18
710	23790	QPSK	5MHz	1	24	22.96	0	0.37
710	23790	16QAM	5MHz	1	24	21.71	1	1.62
710	23790	QPSK	5MHz	12	6	22.03	1	1.3
710	23790	16QAM	5MHz	12	6	20.96	2	2.37
710	23790	QPSK	5MHz	25	0	22.01	1	1.32
710	23790	16QAM	5MHz	25	0	21.36	2	1.97

B5 5MHz 20425CH

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
826.5	20425	QPSK	5MHz	1	0	<b>22.91</b>	0	0
826.5	20425	16QAM	5MHz	1	0	21.93	1	0.98
826.5	20425	QPSK	5MHz	1	24	22.7	0	0.21
826.5	20425	16QAM	5MHz	1	24	21.72	1	1.19
826.5	20425	QPSK	5MHz	12	6	21.77	1	1.14
826.5	20425	16QAM	5MHz	12	6	20.73	2	2.18
826.5	20425	QPSK	5MHz	25	0	21.92	1	0.99
826.5	20425	16QAM	5MHz	25	0	21.16	2	1.75

B5 5MHz 20525CH

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
836.5	20525	QPSK	5MHz	1	0	<b>23.18</b>	0	0
836.5	20525	16QAM	5MHz	1	0	22.21	1	0.97
836.5	20525	QPSK	5MHz	1	24	22.79	0	0.39
836.5	20525	16QAM	5MHz	1	24	21.85	1	1.33
836.5	20525	QPSK	5MHz	12	6	21.99	1	1.19
836.5	20525	16QAM	5MHz	12	6	20.84	2	2.34
836.5	20525	QPSK	5MHz	25	0	21.98	1	1.2
836.5	20525	16QAM	5MHz	25	0	21.51	2	1.67

B5 5MHz 20625CH

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
846.5	20625	QPSK	5MHz	1	0	<b>23.34</b>	0	0
846.5	20625	16QAM	5MHz	1	0	22.27	1	1.07
846.5	20625	QPSK	5MHz	1	24	22.57	0	0.77
846.5	20625	16QAM	5MHz	1	24	21.57	1	1.77
846.5	20625	QPSK	5MHz	12	6	22.28	1	1.06
846.5	20625	16QAM	5MHz	12	6	21.43	2	1.91
846.5	20625	QPSK	5MHz	25	0	22.09	1	1.25
846.5	20625	16QAM	5MHz	25	0	20.8	2	2.54

**B4 5MHz 19975CH**

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
1712.5	19975	QPSK	5MHz	1	0	<b>23.03</b>	0	0
1712.5	19975	16QAM	5MHz	1	0	22.03	1	1
1712.5	19975	QPSK	5MHz	1	24	22.83	0	0.2
1712.5	19975	16QAM	5MHz	1	24	21.83	1	1.2
1712.5	19975	QPSK	5MHz	12	6	22	1	1.03
1712.5	19975	16QAM	5MHz	12	6	20.86	2	2.17
1712.5	19975	QPSK	5MHz	25	0	22.05	1	0.98
1712.5	19975	16QAM	5MHz	25	0	21.39	2	1.64

**B4 5MHz 20175CH**

UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
1732.5	20175	QPSK	5MHz	1	0	<b>23.22</b>	0	0
1732.5	20175	16QAM	5MHz	1	0	22.21	1	1.01
1732.5	20175	QPSK	5MHz	1	24	23.22	0	0
1732.5	20175	16QAM	5MHz	1	24	22.09	1	1.13
1732.5	20175	QPSK	5MHz	12	6	22.06	1	1.16
1732.5	20175	16QAM	5MHz	12	6	20.86	2	2.36
1732.5	20175	QPSK	5MHz	25	0	22.08	1	1.14
1732.5	20175	16QAM	5MHz	25	0	21.26	2	1.96

**B4 5MHz 20375CH**

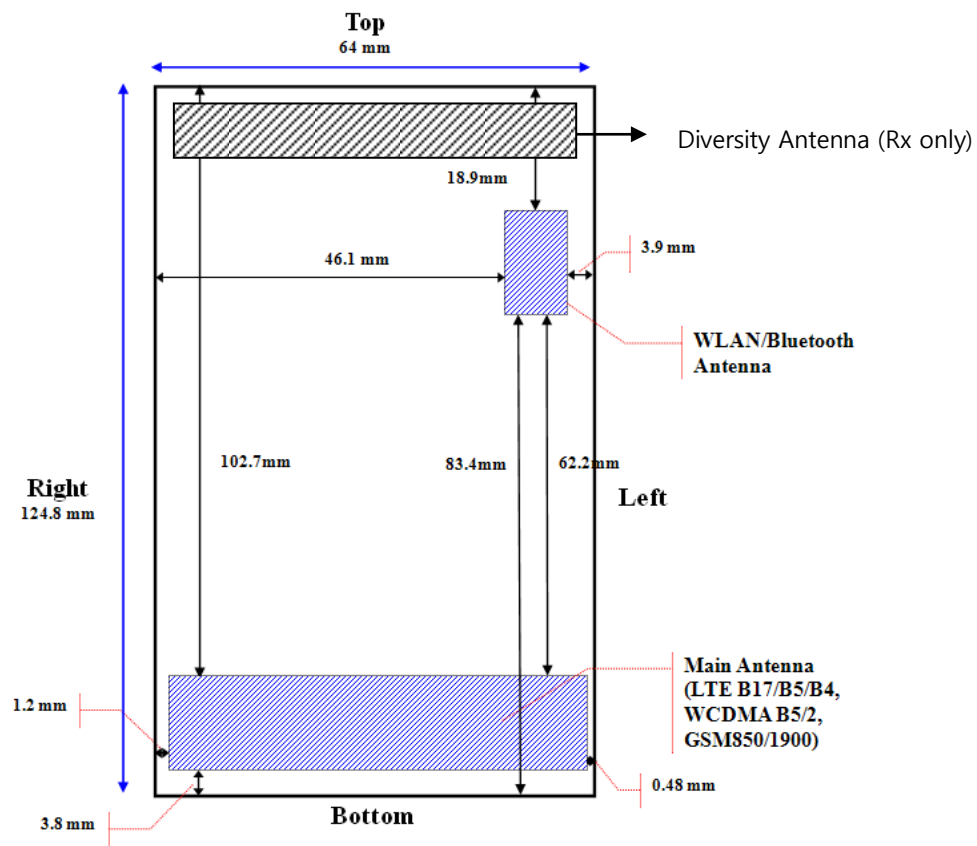
UL Freq.(MHz)	UL Channel	Modulation	Bandwidth	RB Size	Resource Block Offset	Maximum Average Power [dBm]	MPR	Power reduction (dB)
1752.5	20375	QPSK	5MHz	1	0	23.39	0	0
1752.5	20375	16QAM	5MHz	1	0	22.55	1	0.84
1752.5	20375	QPSK	5MHz	1	24	23.22	0	0.17
1752.5	20375	16QAM	5MHz	1	24	22.42	1	0.97
1752.5	20375	QPSK	5MHz	12	6	22.3	1	1.09
1752.5	20375	16QAM	5MHz	12	6	21.32	2	2.07
1752.5	20375	QPSK	5MHz	25	0	22.28	1	1.11
1752.5	20375	16QAM	5MHz	25	0	20.79	2	2.6

## 10. SAR Test configuration & Antenna Information

### 10.1 SAR Test configurations

Mode	Back	Front	Left	Right	Bottom	Top
850 GPRS	Yes	Yes	Yes	Yes	Yes	No
1900 GPRS	Yes	Yes	Yes	Yes	Yes	No
WCDMA850	Yes	Yes	Yes	Yes	Yes	No
WCDMA1900	Yes	Yes	Yes	Yes	Yes	No
LTE B17/5/4	Yes	Yes	Yes	Yes	Yes	No
WLAN	Yes	Yes	Yes	No	No	Yes

### 10.2 Antenna and Device Information



[Rear side View]

**Note;**

Per Oct.2010 TCB Workshop guidance, we performed the SAR testing at 1 cm from the top & bottom surfaces and also from side edges with a transmitting antenna  $\leq$  2.5 cm from an edge.



### EUT Technology Support

Mode	Band	Frequency	Channel Bandwidth(MHz)
Voice	GSM	GSM850,UMTS B5 : 824-849 MHz	200kHz
	WCDMA	GSM1900, UMTS B2 : 1850-1910 MHz	5MHz
Data	GPRS,EDGE	GSM850, UMTS B5 : 824-849 MHz	200kHz
	HSPA	GSM1900, UMTS B2 : 1850-1910 MHz	5MHz
Data	LTE	Band 17 704-716 MHz Band 5 824-849 MHz Band 4 1710-1755 MHz	Max of 10MHz
Data	802.11b/g/n	2.45GHz	20MHz

### Definition of Antennas

Antenna	Antenna Use	Technologies	TX Bands
1	GSM+WCDMA+LTE	GSM,WCDMA.LTE	700/850/1700/1900
2	WLAN/BT	802.11 + Bluetooth	2400MHz

Note;

LTE antenna is sharing hardware components and antenna with other transmitters(GSM/WCDMA). Therefore, it cannot transmit simultaneously between LTE, GSM and WCDMA.

# 11. SAR Considerations for Multiple Transmitters and Antennas

## 11.1 SAR Evaluation Considerations

These procedures were followed according to FCC "SAR Evaluation Considerations for Handsets with Multiple Transmitters and Antennas", May 2008. The procedures are applicable to phones with built-in unlicensed transmitters, such as 802.11 a/b/g and Bluetooth devices.

	2.45	5.15 - 5.35	5.47 - 5.85	GHz
$P_{Ref}$	12	6	5	mW
Device output power should be rounded to the nearest mW to compare with values specified in this				

Table. 12.1 Output Power Thresholds for Unlicensed Transmitters

	Individual Transmitter	Simultaneous Transmission
<b>Licensed Transmitters</b>	<u>Routine evaluation required</u>	<b>SAR not required:</b> <u>Unlicensed only</u>
<b>Unlicensed Transmitters</b>	<p><b>When there is no simultaneous transmission –</b></p> <ul style="list-style-type: none"> <li>output <math>\leq 60</math>/f: SAR not required</li> <li>output <math>&gt; 60</math>/f: stand-alone SAR required</li> </ul> <p><b>When there is simultaneous transmission –</b></p> <p><u>Stand-alone SAR not required when</u></p> <ul style="list-style-type: none"> <li>output <math>\leq 2 \cdot P_{Ref}</math> and antenna is <math>\geq 5.0</math> cm from other antennas</li> <li>output <math>\leq P_{Ref}</math> and antenna is <math>\geq 2.5</math> cm from other antennas</li> <li>output <math>\leq P_{Ref}</math> and antenna is <math>&lt; 2.5</math> cm from other antennas, each with either output power <math>\leq P_{Ref}</math> or 1-g SAR <math>&lt; 1.2</math> W/kg</li> </ul> <p><u>Otherwise stand-alone SAR is required</u></p> <p><b>When stand-alone SAR is required</b></p> <ul style="list-style-type: none"> <li>test SAR on highest output channel for each wireless mode and exposure condition</li> <li>if SAR for highest output channel is <math>&gt; 50\%</math> of SAR limit, evaluate all channels according to normal procedures</li> </ul>	<ul style="list-style-type: none"> <li>when stand-alone 1-g SAR is not required and antenna is <math>\geq 5</math> cm from other antennas</li> </ul> <p><u>Licensed &amp; Unlicensed</u></p> <ul style="list-style-type: none"> <li>when the sum of the 1-g SAR is <math>&lt; 1.6</math> W/kg for all simultaneous transmitting antennas</li> <li>when SAR to peak location separation ratio of simultaneous transmitting antenna pair is <math>&lt; 0.3</math></li> </ul> <p><b>SAR required:</b></p> <p><u>Licensed &amp; Unlicensed</u></p> <p>antenna pairs with SAR to peak location separation ratio <math>\geq 0.3</math>; test is only required for the configuration that results in the highest SAR in stand-alone configuration for each wireless mode and exposure condition</p> <p><b>Note: simultaneous transmission exposure conditions for head and body can be different for different style phones; therefore, different test requirements may apply</b></p>
<b>Jaw, Mouth and Nose</b>	<p><u>Flat phantom SAR required</u></p> <ul style="list-style-type: none"> <li>when measurement is required in tight regions of SAM and it is not feasible or the results can be questionable due to probe tilt, calibration, positioning and orientation issues</li> <li>position rectangular and clam-shell phones according to flat phantom procedures and conduct SAR measurements for these specific locations</li> </ul>	When simultaneous transmission SAR testing is required, contact the FCC Laboratory for interim guidance.

SAR Evaluation Requirements for Multiple Transmitters Handsets

FCC ID: JYCP9070 / BT Max. RF output power: 4.41dBm (2.76 mW)

Antenna separation distance between Main and BT/WLAN: 67.1 mm

WLAN Max. RF output power: Wi-Fi 802.11b(16.82 dBm) / Wi-Fi 802.11g (13.58 dBm) / Wi-Fi 802.11n (13.26 dBm)

## 11.2 Simultaneous Transmission Possibilities

Simultaneous Tx Combination	Configuration	Head	Body-Worn	Hotspot
1	GSM Voice	O	O	-
2	GPRS/EDGE Data	-	O	-
3	GPRS/EDGE VoIP	O	-	-
4	WCDMA Voice	O	O	-
5	WCDMA Data	-	O	-
6	LTE Data	-	O	-
7	LTE VoIP	O	-	-
8	WLAN/BT Data	-	O	-
9	WLAN/BT VoIP	O	-	-
10	GSM Voice+WLAN	O	-	-
11	GSM Voice+BT	-	O	-
12	GPRS/EDGE Data+WLAN	-	-	O
13	GPRS/EDGE Data+BT	-	O	-
14	GPRS/EDGE VoIP+WLAN	O	-	-
15	GPRS/EDGE VoIP+BT		O	-
16	WCDMA Voice+WLAN	O	-	-
17	WCDMA Voice+BT		O	
18	WCDMA Data+WLAN	-	-	O
19	WCDMA Data+BT	-	O	-
20	LTE Data+WLAN	-	-	O
21	LTE VoIP+WLAN	O	-	-

### 11.3 SAR Summation Scenario

Below table represents **GSM Voice + WLAN, GPRS VoIP + WLAN, WCDMA Voice + WLAN, LTE VoIP + WLAN** for Head configurations.

**Simultaneous Transmission Summation for Held to Ear**

Simultaneous TX	configuration	850 GSM SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)	Simultaneous TX	configuration	1900 GSM SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)
Head SAR	Left Cheek	0.611	0.169	0.780	Head SAR	Left Cheek	0.618	0.169	0.787
	Left Tilt	0.287	0.11	0.397		Left Tilt	0.283	0.11	0.393
	Right Cheek	0.552	0.339	0.891		Right Cheek	0.328	0.339	0.667
	Right Tilt	0.312	0.135	0.447		Right Tilt	0.343	0.135	0.478
Simultaneous TX	configuration	850 WCDMA SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)	Simultaneous TX	configuration	1900 WCDMA SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)
Head SAR	Left Cheek	0.748	0.169	0.917	Head SAR	Left Cheek	1.35	0.169	1.519
	Left Tilt	0.372	0.11	0.482		Left Tilt	0.649	0.11	0.759
	Right Cheek	0.71	0.339	1.049		Right Cheek	0.697	0.339	1.036
	Right Tilt	0.414	0.135	0.549		Right Tilt	0.739	0.135	0.874
Simultaneous TX	configuration	850 GPRS SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)	Simultaneous TX	configuration	1900 GPRS SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)
Head SAR	Left Cheek	0.627	0.169	0.796	Head SAR	Left Cheek	0.402	0.169	0.571
	Left Tilt	0.288	0.11	0.398		Left Tilt	0.187	0.11	0.297
	Right Cheek	0.602	0.339	0.941		Right Cheek	0.221	0.339	0.560
	Right Tilt	0.304	0.135	0.439		Right Tilt	0.211	0.135	0.346
Simultaneous TX	configuration	LTE B17 SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)	Simultaneous TX	configuration	LTE B5 SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)
Head SAR	Left Cheek	0.518	0.169	0.687	Head SAR	Left Cheek	0.698	0.169	0.867
	Left Tilt	0.280	0.11	0.390		Left Tilt	0.399	0.11	0.509
	Right Cheek	0.547	0.339	0.886		Right Cheek	0.456	0.339	0.795
	Right Tilt	0.316	0.135	0.451		Right Tilt	0.384	0.135	0.519
Simultaneous TX	configuration	LTE B4 SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)					
Head SAR	Left Cheek	0.631	0.169	0.800					
	Left Tilt	0.373	0.11	0.483					
	Right Cheek	0.437	0.339	0.776					
	Right Tilt	0.401	0.135	0.536					

The above tables represent a held to ear call with 2.4 GHz WLAN.

Below table represents **GPRS Data + WLAN, WCDMA Data + WLAN, LTE Data + WLAN** for Body-worn configurations.

**Simultaneous Transmission Summation for Body-Worn (1cm)**

Simultaneous TX	configuration	850 GPRS SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)	Simultaneous TX	configuration	1900 GPRS SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)
Body SAR	Back	0.757	0.352	1.109	Body SAR	Back	0.4	0.352	0.752
Simultaneous TX	configuration	850 WCDMA SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)	Simultaneous TX	configuration	1900 WCDMA SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)
Body SAR	Back	0.727	0.352	1.079	Body SAR	Back	0.897	0.352	1.249
Simultaneous TX	configuration	LTE B 17 SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)	Simultaneous TX	configuration	LTE B5 SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)
Body SAR	Back	0.607	0.352	0.959	Body SAR	Back	0.595	0.352	0.947
Simultaneous TX	configuration	LTE B 4 SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)					
Body SAR	Back	0.705	0.352	1.057					

The above tables represent a body-worn call with 2.4 GHz WLAN.

Below table represents **GPRS Data + WLAN, WCDMA Data + WLAN, LTE Data + WLAN** for Hotspot configurations.

**Simultaneous Transmission Summation for Hotspot**

Simultaneous TX	configuration	850 GPRS SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)	Simultaneous TX	configuration	1900 GPRS SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)
Body SAR	Back	0.757	0.352	1.109	Body SAR	Back	0.4	0.352	0.752
	Front	0.721	0.079	0.800		Front	0.525	0.079	0.604
	Left	0.671	0.207	0.878		Left	0.191	0.207	0.398
	Right	0.634	-	0.634		Right	0.116	-	0.116
	Bottom	0.086	-	0.086		Bottom	0.76	-	0.760
	Top	-	0.086	0.086		Top	-	0.086	0.086
Simultaneous TX	configuration	850 WCDMA SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)	Simultaneous TX	configuration	1900 WCDMA SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)
Body SAR	Back	0.727	0.352	1.079	Body SAR	Back	0.897	0.352	1.249
	Front	0.64	0.079	0.719		Front	1.11	0.079	1.189
	Left	0.517	0.207	0.724		Left	0.552	0.207	0.759
	Right	0.427	-	0.427		Right	0.281	-	0.281
	Bottom	0.141	-	0.141		Bottom	1.18	-	1.180
	Top	-	0.086	0.086		Top	-	0.086	0.086
Simultaneous TX	configuration	LTE B 17 SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)	Simultaneous TX	configuration	LTE B5 SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)
Body SAR	Back	0.607	0.352	0.959	Body SAR	Back	0.595	0.352	0.947
	Front	0.502	0.079	0.581		Front	0.574	0.079	0.653
	Left	0.232	0.207	0.439		Left	0.496	0.207	0.703
	Right	0.375	-	0.375		Right	0.528	-	0.528
	Bottom	0.198	-	0.198		Bottom	0.098	-	0.098
	Top	-	0.086	0.086		Top	-	0.086	0.086
Simultaneous TX	configuration	LTE B 4 SAR(W/kg)	WIFI SAR (W/kg)	ΣSAR (W/kg)					
Body SAR	Back	0.705	0.352	1.057					
	Front	0.657	0.079	0.736					
	Left	0.312	0.207	0.519					
	Right	0.332	-	0.332					
	Bottom	0.988	-	0.988					
	Top	-	0.086	0.086					

**Note;**

Body-Worn SAR : The Rear side hotspot SAR test configurations can be considered for body-worn accessory SAR. Although body-worn accessory conditions are typically for voice configurations, the 2 TX GPRS slot frame averaged output power was more conservative and was included for the body-worn accessory SAR assessment.

## 11.4 Simultaneous Transmission Conclusion

The above numerical summed SAR was below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit. No volumetric SAR summation is required per FCC KDB Publication 648474.

The above tables represent the worst-case simultaneous transmission scenarios possibility with this device.

Because the conducted output power level of the BT transmitter is less than  $2 \cdot P_{ref}$ , and the BT antenna is more than 5 cm from the Main antenna, neither simultaneous SAR nor stand-alone BT SAR are required for the EUT.

## 12. SAR TEST DATA SUMMARY

### 12.1 Measurement Results (GSM850 Head SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Battery	Phantom Position	Antenna Type	SAR(mW/g)
MHz	Channel							
836.6	190 (Mid)	GSM850	32.33	-0.011	Standard	Left Ear	Intenna	0.611
			32.33	-0.11	Standard	Left Tilt 15°	Intenna	0.287
			32.33	-0.084	Standard	Right Ear	Intenna	0.552
			32.33	-0.066	Standard	Right Tilt 15°	Intenna	0.312
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>						<b>Head 1.6 W/kg (mW/g) <small>Averaged over 1 gram</small></b>		

**NOTES:**

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- All modes of operation were investigated and the worst-case are reported.
- Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- Tissue parameters and temperatures are listed on the SAR plot.
- Battery Type             Standard             Extended             Slim  
Batteries are fully charged for all readings.
- Test Signal Call Mode    Manual Test cord    Base Station Simulator
- Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



## 12.2 Measurement Results (GSM1900 Head SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Battery	Phantom Position	Antenna Type	SAR(mW/g)
MHz	Channel							
1 880.0	661 (Mid)	GSM1900	30.29	-0.194	Standard	Left Ear	Intenna	0.618
			30.29	-0.018	Standard	Left Tilt 15°	Intenna	0.283
			30.29	0.113	Standard	Right Ear	Intenna	0.328
			30.29	0.026	Standard	Right Tilt 15°	Intenna	0.343
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>						<b>Head 1.6 W/kg (mW/g) Averaged over 1 gram</b>		

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type            Standard                    Extended                    Slim  
Batteries are fully charged for all readings.
- 6 Test Signal Call Mode    Manual Test cord        Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).

## 12.3 Measurement Results (GPRS850 VoIP Head SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Battery	Phantom Position	Antenna Type	SAR(mW/g)
MHz	Channel							
836.6	190 (Mid)	GPRS 2Tx	30.52	-0.042	Standard	Left Ear	Intenna	0.627
			30.52	0.160	Standard	Left Tilt 15°	Intenna	0.288
			30.52	0.02	Standard	Right Ear	Intenna	0.602
			30.52	0.134	Standard	Right Tilt 15°	Intenna	0.304
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>						<b>Head 1.6 W/kg (mW/g) <small>Averaged over 1 gram</small></b>		

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type             Standard                     Extended                     Slim  
Batteries are fully charged for all readings.
- 6 Test Signal Call Mode    Manual Test cord             Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).

## 12.4 Measurement Results (GPRS1900 VoIP Head SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Battery	Phantom Position	Antenna Type	SAR(mW/g)
MHz	Channel							
1 880.0	661 (Mid)	GPRS 2Tx	27.85	0.022	Standard	Left Ear	Intenna	0.402
			27.85	0.02	Standard	Left Tilt 15°	Intenna	0.187
			27.85	0.02	Standard	Right Ear	Intenna	0.221
			27.85	0.044	Standard	Right Tilt 15°	Intenna	0.211
<b>ANSI/ IEEE C95.1 – 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>						<b>Head 1.6 W/kg (mW/g) Averaged over 1 gram</b>		

**NOTES:**

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- All modes of operation were investigated and the worst-case are reported.
- Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- Tissue parameters and temperatures are listed on the SAR plot.
- Battery Type  Standard  Extended  Slim  
Batteries are fully charged for all readings.
- Test Signal Call Mode  Manual Test cord  Base Station Simulator
- Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).

## 12.5 Measurement Results (WCDMA850 Head SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Battery	Phantom Position	Antenna Type	SAR(mW/g)
MHz	Channel							
836.6	4183 (Mid)	WCDMA850	23.60	-0.183	Standard	Left Ear	Intenna	0.748
			23.60	-0.062	Standard	Left Tilt 15°	Intenna	0.372
			23.60	-0.062	Standard	Right Ear	Intenna	0.710
			23.60	0.042	Standard	Right Tilt 15°	Intenna	0.414
<b>ANSI/ IEEE C95.1 1992 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>						<b>Head 1.6 W/kg (mW/g) Averaged over 1 gram</b>		

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type            Standard                    Extended                    Slim  
Batteries are fully charged for all readings.
- 6 Test Signal Call Mode    Manual Test cord            Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 WCDMA Mode was tested under RMC 12.2 kbps and HSPA Inactive.

## 12.6 Measurement Results (WCDMA1900 Head SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Battery	Phantom Position	Antenna Type	SAR(mW/g)
MHz	Channel							
1 852.4	9262 (Low)	WCDMA1900	23.75	0.02	Standard	Left Ear	Intenna	1.34
1 880.0	9400 (Mid)	WCDMA1900	23.78	-0.074	Standard	Left Ear	Intenna	1.35
1 907.6	9538 (High)	WCDMA1900	23.76	-0.57	Standard	Left Ear	Intenna	1.27
1 880.0	9400 (Mid)	WCDMA1900	23.78	-0.186	Standard	Left Tilt 15°	Intenna	0.649
1 880.0	9400 (Mid)	WCDMA1900	23.78	0.096	Standard	Right Ear	Intenna	0.697
1 880.0	9400 (Mid)	WCDMA1900	23.78	0.177	Standard	Right Tilt 15	Intenna	0.739
<b>ANSI/ IEEE C95.1 – 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>						<b>Head 1.6 W/kg (mW/g) Averaged over 1 gram</b>		

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type                     Standard                     Extended                     Slim  
Batteries are fully charged for all readings.
- 6 Test Signal Call Mode    Manual Test cord            Base Station Simulator
- 7 WCDMA Mode was tested under RMC 12.2 kbps and HSPA Inactive.

## 12.7 Measurement Results (802.11b/g/n Head)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Battery	Phantom Position	Antenna Type	SAR(mW/g)
MHz	Channel							
2 437	6 (Mid)	802.11b	16.82	-0.095	Standard	Left Ear	Intenna	0.169
			16.82	-0.099	Standard	Left Tilt 15°	Intenna	0.110
			16.82	-0.139	Standard	Right Ear	Intenna	0.339
			16.82	-0.131	Standard	Right Tilt 15	Intenna	0.135
<b>ANSI/ IEEE C95.1 – 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>						<b>Head 1.6 W/kg (mW/g) Averaged over 1 gram</b>		

**NOTES:**

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- All modes of operation were investigated and the worst-case are reported.
- Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- Tissue parameters and temperatures are listed on the SAR plot.
- Battery Type  Standard  Extended  Slim  
Batteries are fully charged for all readings.
- Test Signal Call Mode  Manual Test cord  Base Station Simulator
- IEEE 802.11g(including 802.11n) SAR testing is required when the conducted powers are equal to or greater than 0.25 dB Than the conducted powers in IEEE 802.11b.
- Per KDB Publication 648474, if the highest output channel SAR for each exposure position is less than 0.8 W/kg, other channels SAR tests are not necessary.

## 12.8 Measurement Results (LTE Band17 10MHz QPSK Head SAR)

Frequency		Modulation	Conducte d Power (dBm)	Power Drift (dB)	Phantom Position	RB Size	RB Offset	Antenna Type	SAR(mW/g)	MPR
MH	Chann									
710	23790	QPSK	23.23	-0.032	Left Ear	1	0	Intenna	0.517	0
			22.89	0.02		1	49		0.518	0
			21.91	0.063		25	13		0.405	1
			23.23	0.069	Left Tilt 15°	1	0		0.258	0
			22.89	-0.012		1	49		0.280	0
			21.91	0.018		25	13		0.183	1
			23.23	-0.175	Right Ear	1	0		0.506	0
			22.89	-0.077		1	49		0.547	0
			21.91	0.023		25	13		0.333	1
			23.23	-0.012	Right Tilt 15°	1	0		0.297	0
			22.89	-0.146		1	49		0.316	0
			21.91	-0.01		25	13		0.181	1
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>							<b>Head 1.6 W/kg (mW/g) <small>Averaged over 1 gram</small></b>			

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type  Standard Batteries are fully charged for all readings.
- 6 Test Signal Call Mode  Manual Test cord  Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 KDB 941225 D05 SAR for LTE Devices v01 was followed.
  - QPSK with 50% RB is required for the largest channel Bandwidth.
  - QPSK with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 16QAM with 50% RB is required for the largest channel Bandwidth.
  - 16QAM with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 100% RB allocation is not required since SAR is not > 1.45 W/kg.
  - The Low & High channel were not required for Band 5/4 since the power variation across all channels is 1/2 dB and SAR is ≤ 0.8 W/kg.



## 12.9 Measurement Results (LTE Band17 10MHz 16QAM Head SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Phantom Position	RB Size	RB Offset	Antenna Type	SAR(mW/g)	MPR
MH	Chan									
710	23790	16QAM	22.26	0.013	Left Ear	1	0	Intenna	0.431	1
			21.86	-0.049		1	49		0.442	1
			21.29	-0.015		25	13		0.276	2
			22.26	0.132	Left Tilt 15°	1	0		0.226	1
			21.86	-0.072		1	49		0.241	1
			21.29	-0.039		25	13		0.150	2
			22.26	-0.038	Right Ear	1	0		0.404	1
			21.86	-0.027		1	49		0.413	1
			21.29	-0.104		25	13		0.245	2
			22.26	-0.067	Right Tilt 15°	1	0		0.247	1
			21.86	-0.068		1	49		0.270	1
			21.29	0.013		25	13		0.158	2
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>								<b>Head 1.6 W/kg (mW/g) <small>Averaged over 1 gram</small></b>		

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type  Standard Batteries are fully charged for all readings.
- 6 Test Signal Call Mode  Manual Test cord  Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 KDB 941225 D05 SAR for LTE Devices v01 was followed.
  - QPSK with 50% RB is required for the largest channel Bandwidth.
  - QPSK with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 16QAM with 50% RB is required for the largest channel Bandwidth.
  - 16QAM with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 100% RB allocation is not required since SAR is not > 1.45 W/kg.
  - The Low & High channel were not required for Band 5/4 since the power variation across all channels is 1/2 dB and SAR is ≤ 0.8 W/kg.

## 12.10 Measurement Results (LTE Band5 10MHz QPSK Head SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Phantom Position	RB Size	RB Offset	Antenna Type	SAR(mW/g)	MPR
MHz	Chan									
836.5	20525	QPSK	23.47	-0.077	Left Ear	1	0	Intenna	0.698	0
			22.69	-0.029		1	49		0.563	0
			22.00	-0.04		25	13		0.585	1
			23.47	-0.005	Left Tilt 15°	1	0		0.399	0
			22.69	-0.025		1	49		0.358	0
			22.00	-0.081		25	13		0.293	1
			23.47	-0.092	Right Ear	1	0		0.456	0
			22.69	0.12		1	49		0.356	0
			22.00	0.035		25	13		0.316	1
			23.47	-0.026	Right Tilt 15°	1	0		0.384	0
			22.69	0.154		1	49		0.349	0
			22.00	-0.024		25	13		0.309	1
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>							<b>Head 1.6 W/kg (mW/g) <small>Averaged over 1 gram</small></b>			

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type  Standard Batteries are fully charged for all readings.
- 6 Test Signal Call Mode  Manual Test cord  Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 KDB 941225 D05 SAR for LTE Devices v01 was followed.
  - QPSK with 50% RB is required for the largest channel Bandwidth.
  - QPSK with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 16QAM with 50% RB is required for the largest channel Bandwidth.
  - 16QAM with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 100% RB allocation is not required since SAR is not > 1.45 W/kg.
  - The Low & High channel were not required for Band 5/4 since the power variation across all channels is 1/2 dB and SAR is ≤ 0.8 W/kg.

## 12.11 Measurement Results (LTE Band5 10MHz 16QAM Head SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Phantom Position	RB Size	RB Offset	Antenna Type	SAR(mW/g)	MPR
MHz	Chann									
836.5	20525	16QAM	22.24	-0.05	Left Ear	1	0	Intenna	0.624	1
			21.67	-0.017		1	49		0.506	1
			21.23	-0.185		25	13		0.500	2
			22.24	-0.037	Left Tilt 15°	1	0		0.338	1
			21.67	-0.176		1	49		0.291	1
			21.23	-0.072		25	13		0.272	2
			22.24	0.092	Right Ear	1	0		0.354	1
			21.67	-0.17		1	49		0.334	1
			21.23	0.037		25	13		0.291	2
			22.24	0.135	Right Tilt 15°	1	0		0.239	1
			21.67	0.085		1	49		0.282	1
			21.23	0.124		25	13		0.259	2

**ANSI/ IEEE C95.1 - 1992– Safety Limit**  
**Spatial Peak**  
**Uncontrolled Exposure/ General Population**

**Head**  
**1.6 W/kg (mW/g)**  
Averaged over 1 gram

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type  Standard Batteries are fully charged for all readings.
- 6 Test Signal Call Mode  Manual Test cord  Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 KDB 941225 D05 SAR for LTE Devices v01 was followed.
  - QPSK with 50% RB is required for the largest channel Bandwidth.
  - QPSK with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 16QAM with 50% RB is required for the largest channel Bandwidth.
  - 16QAM with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 100% RB allocation is not required since SAR is not > 1.45 W/kg.
  - The Low & High channel were not required for Band 5/4 since the power variation across all channels is 1/2 dB and SAR is ≤ 0.8 W/kg.

## 12.12 Measurement Results (LTE Band4 10MHz QPSK Head SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Phantom Position	RB Size	RB Offset	Antenna Type	SAR(mW/g)	MPR
MHz	Chan									
1732.5	20175	QPSK	23.45	-0.024	Left Ear	1	0	Antenna	0.613	0
			23.44	-0.108		1	49		0.631	0
			22.24	-0.076		25	13		0.580	1
			23.45	-0.052	Left Tilt 15°	1	0		0.373	0
			23.44	0.054		1	49		0.341	0
			22.24	-0.016		25	13		0.286	1
			23.45	0.078	Right Ear	1	0		0.437	0
			23.44	0.048		1	49		0.437	0
			22.24	0.024		25	13		0.337	1
			23.45	-0.035	Right Tilt 15°	1	0		0.401	0
			23.44	0.022		1	49		0.366	0
			22.24	-0.189		25	13		0.303	1

**ANSI/ IEEE C95.1 - 1992– Safety Limit**  
**Spatial Peak**  
**Uncontrolled Exposure/ General Population**

**Head**  
**1.6 W/kg (mW/g)**  
Averaged over 1 gram

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type  Standard Batteries are fully charged for all readings.
- 6 Test Signal Call Mode  Manual Test cord  Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 KDB 941225 D05 SAR for LTE Devices v01 was followed.
  - QPSK with 50% RB is required for the largest channel Bandwidth.
  - QPSK with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 16QAM with 50% RB is required for the largest channel Bandwidth.
  - 16QAM with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 100% RB allocation is not required since SAR is not > 1.45 W/kg.
  - The Low & High channel were not required for Band 5/4 since the power variation across all channels is 1/2 dB and SAR is ≤ 0.8 W/kg.

## 12.13 Measurement Results (LTE Band4 10MHz 16QAM Head SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Phantom Position	RB Size	RB Offset	Antenna Type	SAR(mW/g)	MPR
MHz	Chann									
1 732.5	20175	16QAM	22.21	-0.028	Left Ear	1	0	Intenna	0.552	1
			22.14	0.049		1	49		0.507	1
			21.25	-0.069		25	13		0.457	2
			22.21	-0.098	Left Tilt 15°	1	0		0.226	1
			22.14	-0.026		1	49		0.253	1
			21.25	-0.059		25	13		0.219	2
			22.21	-0.087	Right Ear	1	0		0.302	1
			22.14	0.155		1	49		0.295	1
			21.25	0.134		25	13		0.249	2
			22.21	0.077	Right Tilt 15°	1	0		0.302	1
			22.14	-0.015		1	49		0.270	1
			21.25	-0.16		25	13		0.285	2
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>							<b>Head 1.6 W/kg (mW/g) Averaged over 1 gram</b>			

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type  Standard Batteries are fully charged for all readings.
- 6 Test Signal Call Mode  Manual Test cord  Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 KDB 941225 D05 SAR for LTE Devices v01 was followed.
  - QPSK with 50% RB is required for the largest channel Bandwidth.
  - QPSK with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 16QAM with 50% RB is required for the largest channel Bandwidth.
  - 16QAM with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 100% RB allocation is not required since SAR is not > 1.45 W/kg.
  - The Low & High channel were not required for Band 5/4 since the power variation across all channels is 1/2 dB and SAR is ≤ 0.8 W/kg.

## 12.14 Measurement Results (GSM850 Hotspot SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Configuration	Separation Distance	SAR(mW/g)
MHz	Channel						
836.6	190 (Mid)	GPRS 2Tx	30.52	-0.11	Rear	1.0 cm	0.757
836.6	190 (Mid)	GPRS 2Tx	30.52	-0.144	Front	1.0 cm	0.721
836.6	190 (Mid)	GPRS 2Tx	30.52	0.018	Left	1.0 cm	0.671
836.6	190 (Mid)	GPRS 2Tx	30.52	0.035	Right	1.0 cm	0.634
836.6	190 (Mid)	GPRS 2Tx	30.52	-0.17	Bottom	1.0 cm	0.066
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>						<b>Body 1.6 W/kg (mW/g) <small>Averaged over 1 gram</small></b>	

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type                     Standard                     Extended                     Slim  
Batteries are fully charged for all readings.
- 6 Test Signal Call Mode         Manual Test cord         Base Station Simulator
- 7 Test Configuration             With Holster             Without Holster
- 8 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 9 For body SAR testing, the EUT was set in GPRS multi-slot class10 with 2uplink slots for GSM850 due to maximum source-based time-averaged output power.  
According to the KDB 941225 D03 SAR test reduction GSM/GPRS/EDGE, the maximum output power configuration were chosen for Body SAR testing.

## 12.15 Measurement Results (GSM1900 Hotspot SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Configuration	Separation Distance	SAR(mW/g)
MHz	Channel						
1 880.0	661 (Mid)	GPRS 2Tx	27.85	0.017	Rear	1.0 cm	0.400
1 880.0	661 (Mid)	GPRS 2Tx	27.85	0.003	Front	1.0 cm	0.525
1 880.0	661 (Mid)	GPRS 2Tx	27.85	0.001	Left	1.0 cm	0.191
1 880.0	661 (Mid)	GPRS 2Tx	27.85	-0.006	Right	1.0 cm	0.116
1 880.0	661 (Mid)	GPRS 2Tx	27.85	-0.02	Bottom	1.0 cm	0.76
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>						<b>Body 1.6 W/kg (mW/g) Averaged over 1 gram</b>	

**NOTES:**

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- All modes of operation were investigated and the worst-case are reported.
- Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- Tissue parameters and temperatures are listed on the SAR plot.
- Battery Type  Standard  Extended  Slim  
Batteries are fully charged for all readings.
- Test Signal Call Mode  Manual Test cord  Base Station Simulator
- Test Configuration  With Holster  Without Holster
- Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- For body SAR testing, the EUT was set in GPRS multi-slot class10 with 2uplink slots for GSM850 due to maximum source-based time-averaged output power.  
According to the KDB 941225 D03 SAR test reduction GSM/GPRS/EDGE, the maximum output power configuration were chosen for Body SAR testing.





## 12.17 Measurement Results (WCDMA1900 Hotspot SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Configuration	Separation Distance	SAR(mW/g)
MHz	Channel						
1 852.4	9262 (Low)	WCDMA1900	23.75	-0.095	Rear	1.0 cm	0.897
1 880.0	9400 (Mid)	WCDMA1900	23.78	0.004	Rear	1.0 cm	0.88
1 907.6	9538(High)	WCDMA1900	23.76	-0.157	Rear	1.0 cm	0.768
1 852.4	9262 (Low)	WCDMA1900	23.75	0.014	Front	1.0 cm	0.869
1 880.0	9400 (Mid)	WCDMA1900	23.78	0.088	Front	1.0 cm	1.02
1 907.6	9538(High)	WCDMA1900	23.76	-0.018	Front	1.0 cm	1.11
1 880.0	9400 (Mid)	WCDMA1900	23.78	-0.085	Left	1.0 cm	0.552
1 880.0	9400 (Mid)	WCDMA1900	23.78	0.025	Right	1.0 cm	0.281
1 852.4	9262 (Low)	WCDMA1900	23.75	0.026	Bottom	1.0 cm	0.952
1 880.0	9400 (Mid)	WCDMA1900	23.78	0.118	Bottom	1.0 cm	1.09
1 907.6	9538(High)	WCDMA1900	23.76	0.004	Bottom	1.0 cm	1.18
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>						<b>Body 1.6 W/kg (mW/g) <small>Averaged over 1 gram</small></b>	

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type            Standard                    Extended                    Slim  
Batteries are fully charged for all readings.
- 6 Test Signal Call Mode    Manual Test cord        Base Station Simulator
- 7 Test Configuration       With Holster                Without Holster
- 8 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 9 WCDMA Mode was tested under RMC 12.2 kbps and HSPA Inactive.

## 12.18 Measurement Results (802.11b/g/n Hotspot SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Configuration	Separation Distance	Data Rate	SAR(mW/g)
MHz	Channel							
2 437	6 (Mid)	802.11b	16.82	-0.042	Rear	1.0 cm	1 Mbps	0.352
2 437	6 (Mid)	802.11b	16.82	0.116	Front	1.0 cm	1 Mbps	0.079
2 437	6 (Mid)	802.11b	16.82	0.014	Left	1.0 cm	1 Mbps	0.207
2 437	6 (Mid)	802.11b	16.82	-0.005	Top	1.0 cm	1 Mbps	0.086
<b>ANSI/ IEEE C95.1 1992 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>						<b>Body 1.6 W/kg (mW/g) <small>Averaged over 1 gram</small></b>		

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type                     Standard                     Extended                     Slim  
Batteries are fully charged for all readings.
- 6 Test Signal Call Mode         Manual Test code             Base Station Simulator
- 7 IEEE 802.11g(including 802.11n) SAR testing is required when the conducted powers are equal to or greater than 0.25 dB Than the conducted powers in IEEE 802.11b.
- 8 Per KDB Publication 648474, if the highest output channel SAR for each exposure position is less than 0.8 W/kg, other channels SAR tests are not necessary.

## 12.19 Measurement Results (LTE Band17 10MHz QPSK Hotspot SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Configuration	RB Size	RB Offset	Separation Distance	Antenna Type	SAR(mW/g)	MPR
MHz	Channel										
710	23790	QPSK	23.23	0.027	Rear	1	0	1.0 cm	Intenna	0.607	0
			22.89	0.104		1	49		Intenna	0.516	0
			21.91	-0.042		25	13		Intenna	0.303	1
			23.23	0.066	Front	1	0		Intenna	0.502	0
			22.89	0.063		1	49		Intenna	0.413	0
			21.91	-0.095		25	13		Intenna	0.336	1
			23.23	-0.052	Left	1	0		Intenna	0.232	0
			22.89	0.059		1	49		Intenna	0.186	0
			21.91	-0.036		25	13		Intenna	0.171	1
			23.23	-0.081	Right	1	0		Intenna	0.317	0
			22.89	0.062		1	49		Intenna	0.375	0
			21.91	0.039		25	13		Intenna	0.291	1
23.23	0.005	bottom	1	0	Intenna	0.198	0				
22.89	-0.028		1	49	Intenna	0.169	0				
21.91	-0.013		25	13	Intenna	0.160	1				
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>							<b>Body 1.6 W/kg (mW/g) Averaged over 1 gram</b>				

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type  Standard Batteries are fully charged for all readings.
- 6 Test Signal Call Mode  Manual Test cord  Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 KDB 941225 D05 SAR for LTE Devices v01 was followed.
  - QPSK with 50% RB is required for the largest channel Bandwidth.
  - QPSK with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 16QAM with 50% RB is required for the largest channel Bandwidth.
  - 16QAM with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 100% RB allocation is not required since SAR is not > 1.45 W/kg.
  - The Low & High channel were not required for Band 5/4 since the power variation across all channels is 1/2 dB and SAR is ≤ 0.8 W/kg.

## 12.20 Measurement Results (LTE Band17 10MHz 16QAM Hotspot SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Configuration	RB Size	RB Offset	Separation Distance	Antenna Type	SAR(mW/g)	MPR
MHz	Channel										
710	23790	16QAM	22.26	0.183	Rear	1	0	1.0 cm	Intenna	0.498	1
			21.86	0.137		1	49		Intenna	0.404	1
			21.29	-0.054		25	13		Intenna	0.348	2
			22.26	0.151	Front	1	0		Intenna	0.378	1
			21.86	-0.057		1	49		Intenna	0.320	1
			21.29	-0.003		25	13		Intenna	0.286	2
			22.26	-0.039	Left	1	0		Intenna	0.182	1
			21.86	0.059		1	49		Intenna	0.152	1
			21.29	0.005		25	13		Intenna	0.143	2
			22.26	-0.02	Right	1	0		Intenna	0.245	1
			21.86	0.043		1	49		Intenna	0.133	1
			21.29	-0.021		25	13		Intenna	0.123	2
			22.26	-0.002	bottom	1	0		Intenna	0.146	1
			21.86	-0.007		1	49		Intenna	0.130	1
21.29	0.027	25	13	Intenna		0.129	2				

**ANSI/ IEEE C95.1 - 1992– Safety Limit**  
**Spatial Peak**  
**Uncontrolled Exposure/ General Population**

**Body**  
**1.6 W/kg (mW/g)**  
Averaged over 1 gram

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type  Standard Batteries are fully charged for all readings.
- 6 Test Signal Call Mode  Manual Test cord  Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 KDB 941225 D05 SAR for LTE Devices v01 was followed.
  - QPSK with 50% RB is required for the largest channel Bandwidth.
  - QPSK with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 16QAM with 50% RB is required for the largest channel Bandwidth.
  - 16QAM with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 100% RB allocation is not required since SAR is not > 1.45 W/kg.
  - The Low & High channel were not required for Band 5/4 since the power variation across all channels is 1/2 dB and SAR is ≤ 0.8 W/kg.

## 12.21 Measurement Results (LTE Band5 10MHz QPSK Hotspot SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Configuration	RB Size	RB Offset	Separation Distance	Antenna Type	SAR(mW/g)	MPR
MHz	Chann										
836.5	20525	QPSK	23.5	0.036	Rear	1	0	1.0 cm	Intenna	0.595	0
			22.7	-0.047		1	49		Intenna	0.508	0
			22	-0.086		25	13		Intenna	0.457	1
			23.5	-0.004	Front	1	0		Intenna	0.574	0
			22.7	-0.061		1	49		Intenna	0.471	0
			22	-0.025		25	13		Intenna	0.427	1
			23.5	0.041	Left	1	0		Intenna	0.496	0
			22.7	-0.024		1	49		Intenna	0.413	0
			22	-0.038		25	13		Intenna	0.379	1
			23.5	0.007	Right	1	0		Intenna	0.528	0
			22.7	0.028		1	49		Intenna	0.505	0
			22	-0.016		25	13		Intenna	0.412	1
			23.5	0.006	bottom	1	0		Intenna	0.095	0
			22.7	-0.019		1	49		Intenna	0.098	0
			22	-0.031		25	13		Intenna	0.083	1
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>							<b>Body 1.6 W/kg (mW/g) Averaged over 1 gram</b>				

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type            Standard                           Batteries are fully charged for all readings.
- 6 Test Signal Call Mode    Manual Test cord            Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 KDB 941225 D05 SAR for LTE Devices v01 was followed.
  - QPSK with 50% RB is required for the largest channel Bandwidth.
  - QPSK with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 16QAM with 50% RB is required for the largest channel Bandwidth.
  - 16QAM with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 100% RB allocation is not required since SAR is not > 1.45 W/kg.
  - The Low & High channel were not required for Band 5/4 since the power variation across all channels is 1/2 dB and SAR is ≤ 0.8 W/kg.

**12.21 Measurement Results (LTE Band5 10MHz 16QAM Hotspot SAR)**

Frequency		Modulation	Conducte Power (dBm)	Power Drift (dB)	Configurati on	RB Size	RB Offset	Separation Distance	Antenna Type	SAR(m W/g)	MPR
MHz	Chann										
836.5	20525	16QAM	22.2	0.03	Rear	1	0	1.0 cm	Intenna	0.478	1
			21.7	-0.004		1	49		Intenna	0.410	1
			21.2	-0.034		25	13		Intenna	0.412	2
			22.2	-0.036	Front	1	0		Intenna	0.457	1
			21.7	-0.022		1	49		Intenna	0.381	1
			21.2	-0.083		25	13		Intenna	0.366	2
			22.2	0.02	Left	1	0		Intenna	0.390	1
			21.7	-0.009		1	49		Intenna	0.330	1
			21.2	0.042		25	13		Intenna	0.308	2
			22.2	0.024	Right	1	0		Intenna	0.422	1
			21.7	0.104		1	49		Intenna	0.393	1
			21.2	-0.014		25	13		Intenna	0.288	2
			22.2	-0.043	bottom	1	0		Intenna	0.074	1
			21.7	-0.013		1	49		Intenna	0.075	1
			21.2	-0.024		25	13		Intenna	0.063	2
<b>ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population</b>							<b>Body 1.6 W/kg (mW/g) Averaged over 1 gram</b>				

**NOTES:**

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- All modes of operation were investigated and the worst-case are reported.
- Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- Tissue parameters and temperatures are listed on the SAR plot.
- Battery Type  Standard Batteries are fully charged for all readings.
- Test Signal Call Mode  Manual Test cord  Base Station Simulator
- Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- KDB 941225 D05 SAR for LTE Devices v01 was followed.
  - QPSK with 50% RB is required for the largest channel Bandwidth.
  - QPSK with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 16QAM with 50% RB is required for the largest channel Bandwidth.
  - 16QAM with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 100% RB allocation is not required since SAR is not > 1.45 W/kg.
  - The Low & High channel were not required for Band 5/4 since the power variation across all channels is 1/2 dB and SAR is ≤ 0.8 W/kg.



## 12.22 Measurement Results (LTE Band4 10MHz QPSK Hotspot SAR)

Frequency		Modulation	Conducted Power (dBm)	Power Drift (dB)	Configuration	RB Size	RB Offset	Separation Distance	Antenna Type	SAR (mW/g)	MPR
MHz	Chan										
1 732.5	20175	QPSK	23.5	-0.023	Rear	1	0	1.0 cm	Intenna	0.705	0
			23.4	-0.184		1	49		Intenna	0.603	0
			22.2	0.075		25	13		Intenna	0.523	1
			23.5	-0.08	Front	1	0		Intenna	0.591	0
			23.4	-0.094		1	49		Intenna	0.657	0
			22.2	0.09		25	13		Intenna	0.548	1
			23.5	-0.037	Left	1	0		Intenna	0.312	0
			23.4	0.003		1	49		Intenna	0.278	0
			22.2	0.011		25	13		Intenna	0.233	1
			23.5	0.016	Right	1	0		Intenna	0.332	0
			23.4	-0.004		1	49		Intenna	0.290	0
			22.2	-0.059		25	13		Intenna	0.243	1
			23.5	-0.036	bottom	1	0		Intenna	0.988	0
			23.4	-0.021		1	49		Intenna	0.911	0
			22.2	-0.145		25	13		Intenna	0.762	1

**ANSI/ IEEE C95.1 - 1992– Safety Limit**  
**Spatial Peak**  
**Uncontrolled Exposure/ General Population**

**Body**  
**1.6 W/kg (mW/g)**  
Averaged over 1 gram

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type  Standard Batteries are fully charged for all readings.
- 6 Test Signal Call Mode  Manual Test cord  Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 KDB 941225 D05 SAR for LTE Devices v01 was followed.
  - QPSK with 50% RB is required for the largest channel Bandwidth.
  - QPSK with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 16QAM with 50% RB is required for the largest channel Bandwidth.
  - 16QAM with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 100% RB allocation is not required since SAR is not > 1.45 W/kg.
  - The Low & High channel were not required for Band 5/4 since the power variation across all channels is 1/2 dB and SAR is ≤ 0.8 W/kg in QPSK with 50% RB allocation.

## 12.23 Measurement Results (LTE Band4 10MHz 16QAM Hotspot SAR)

Frequency		Modulation	Conducted Power	Power Drift (dB)	Configuration	RB Size	RB Offset	Separation Distance	Antenna Type	SAR(mW/g)	MPR
MHz	Chann										
1 732.5	20175	16QAM	22.2	0.036	Rear	1	0	1.0 cm	Intenna	0.653	1
			22.1	-0.041		1	49		Intenna	0.510	1
			21.3	0.054		25	13		Intenna	0.478	2
			22.2	0.004	Front	1	0		Intenna	0.503	1
			22.1	0.026		1	49		Intenna	0.466	1
			21.3	-0.07		25	13		Intenna	0.363	2
			22.2	-0.024	Left	1	0		Intenna	0.236	1
			22.1	-0.024		1	49		Intenna	0.202	1
			21.3	0.068		25	13		Intenna	0.197	2
			22.2	-0.051	Right	1	0		Intenna	0.257	1
			22.1	-0.030		1	49		Intenna	0.220	1
			22.2	-0.098		25	13		Intenna	0.194	2
			22.1	-0.127	bottom	1	0		Intenna	0.735	1
			21.3	-0.139		1	49		Intenna	0.681	1
			22.2	0.029		25	13		Intenna	0.763	2

**ANSI/ IEEE C95.1 - 1992– Safety Limit**  
**Spatial Peak**  
**Uncontrolled Exposure/ General Population**

**Body**  
**1.6 W/kg (mW/g)**  
Averaged over 1 gram

**NOTES:**

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type  Standard Batteries are fully charged for all readings.
- 6 Test Signal Call Mode  Manual Test cord  Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 KDB 941225 D05 SAR for LTE Devices v01 was followed.
  - QPSK with 50% RB is required for the largest channel Bandwidth.
  - QPSK with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 16QAM with 50% RB is required for the largest channel Bandwidth.
  - 16QAM with 1 RB for both channel edges are required for the largest channel Bandwidth.
  - 100% RB allocation is not required since SAR is not > 1.45 W/kg.
  - The Low & High channel were not required for Band 5/4 since the power variation across all channels is 1/2 dB and SAR is ≤ 0.8 W/kg.

## **13. CONCLUSION**

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The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/IEEE C95.1 1992.

These measurements are taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests.

## 14. REFERENCES

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## Attachment 1. – SAR Test Plots

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Left touch 190/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.657 mW/g

**Left touch 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

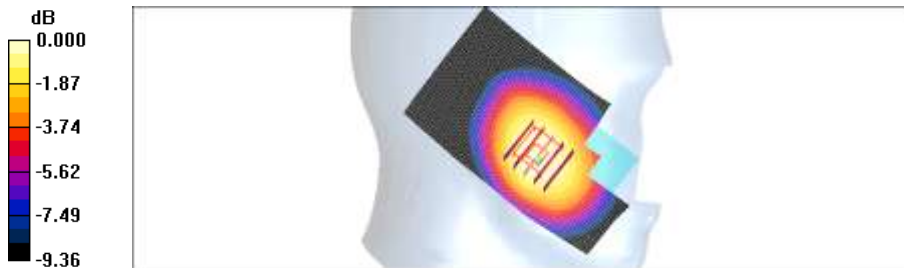
Reference Value = 8.11 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.752 W/kg

**SAR(1 g) = 0.611 mW/g; SAR(10 g) = 0.460 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.643 mW/g



0 dB = 0.643mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Left tilt 190/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.308 mW/g

**Left tilt 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

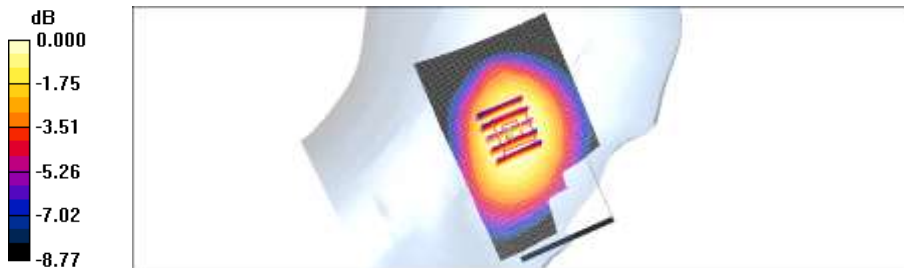
Reference Value = 12.8 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.336 W/kg

**SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.223 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.298 mW/g



0 dB = 0.298mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Right touch 190/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.583 mW/g

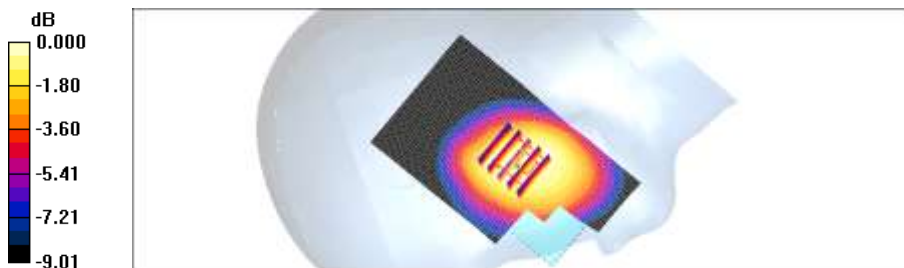
**Right touch 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.57 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 0.667 W/kg

**SAR(1 g) = 0.552 mW/g; SAR(10 g) = 0.420 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.568 mW/g



0 dB = 0.568mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.902 \text{ mho/m}$ ;  $\epsilon_r = 43$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: 800/900 Phantom; Type: SAM

**Right tilt 190/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.335 mW/g

**Right tilt 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

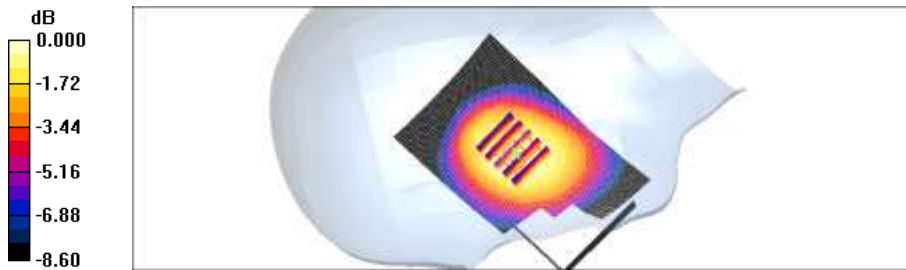
Reference Value = 13.9 V/m; Power Drift = -0.066 dB

Peak SAR (extrapolated) = 0.371 W/kg

**SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.239 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.329 mW/g



0 dB = 0.329mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

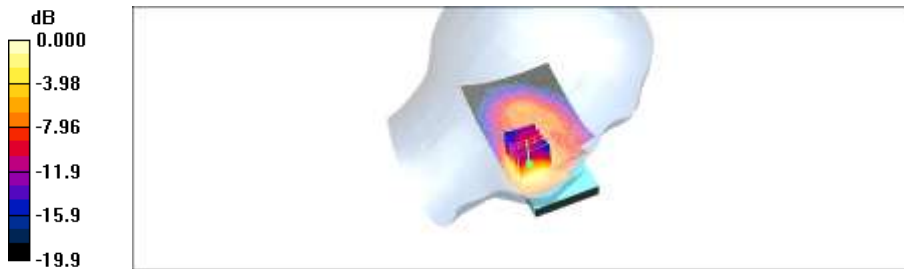
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Left touch 661/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.687 mW/g

**Left touch 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 8.96 V/m; Power Drift = -0.194 dB  
Peak SAR (extrapolated) = 0.936 W/kg  
**SAR(1 g) = 0.618 mW/g; SAR(10 g) = 0.367 mW/g**  
Maximum value of SAR (measured) = 0.684 mW/g



0 dB = 0.684mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

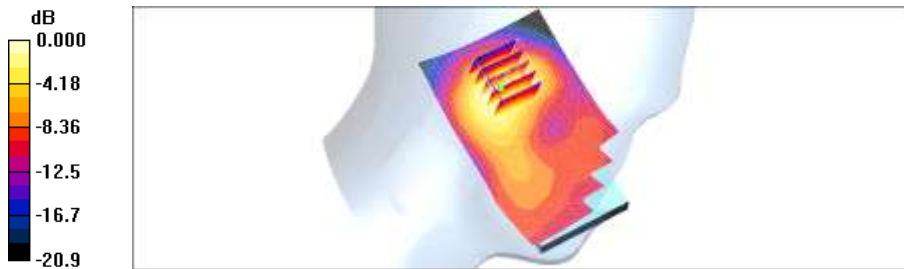
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Left tilt 661/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.347 mW/g

**Left tilt 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 13.8 V/m; Power Drift = -0.018 dB  
Peak SAR (extrapolated) = 0.447 W/kg  
**SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.163 mW/g**  
Maximum value of SAR (measured) = 0.311 mW/g



0 dB = 0.311mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

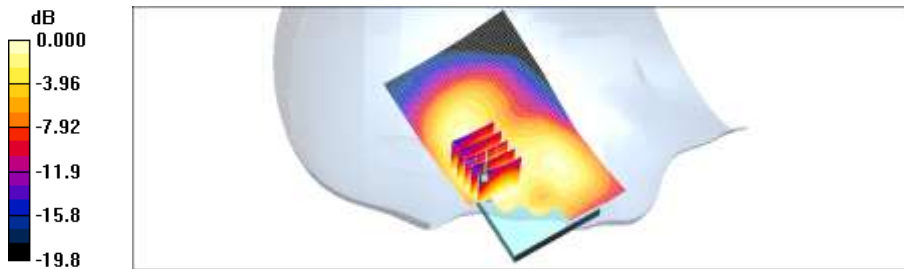
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Right touch 661/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.345 mW/g

**Right touch 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.33 V/m; Power Drift = 0.113 dB  
Peak SAR (extrapolated) = 0.488 W/kg  
**SAR(1 g) = 0.328 mW/g; SAR(10 g) = 0.206 mW/g**  
Maximum value of SAR (measured) = 0.351 mW/g



0 dB = 0.351mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

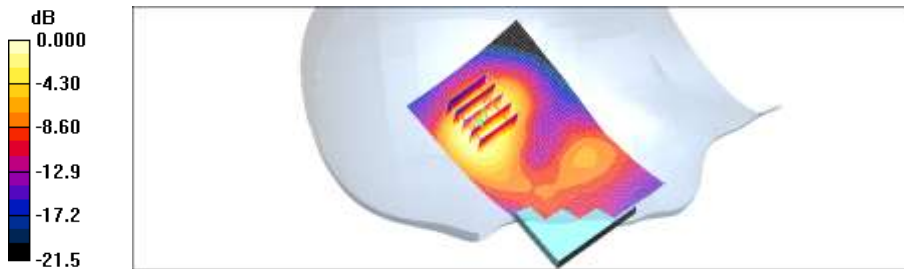
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Right tilt 661/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.434 mW/g

**Right tilt 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 12.8 V/m; Power Drift = 0.026 dB  
Peak SAR (extrapolated) = 0.552 W/kg  
**SAR(1 g) = 0.343 mW/g; SAR(10 g) = 0.203 mW/g**  
Maximum value of SAR (measured) = 0.368 mW/g



0 dB = 0.368mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.15  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Left touch 190 GPRS VoIP/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.661 mW/g

**Left touch 190 GPRS VoIP/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

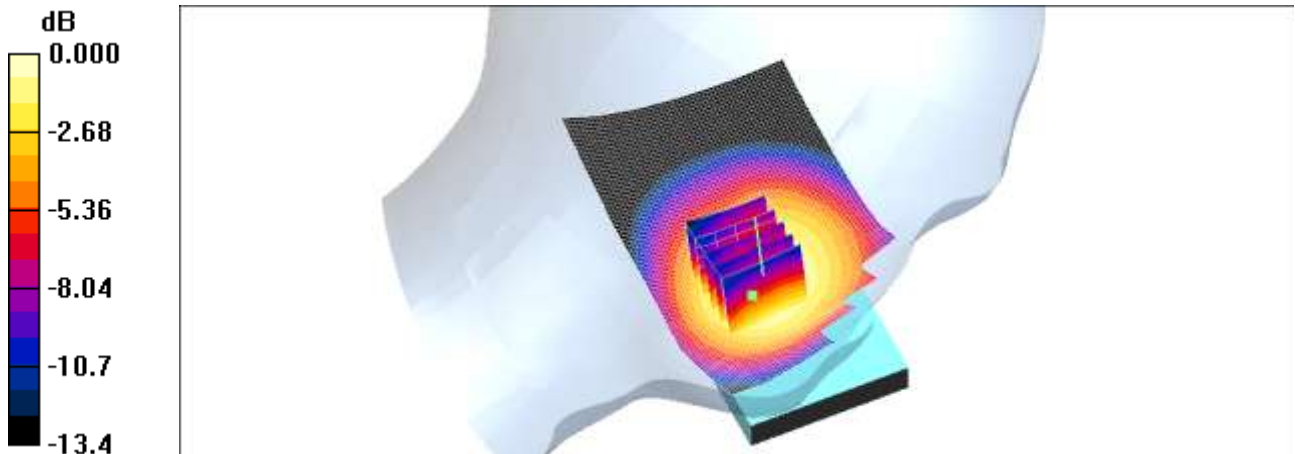
Reference Value = 7.15 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 0.873 W/kg

**SAR(1 g) = 0.627 mW/g; SAR(10 g) = 0.431 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.665 mW/g



0 dB = 0.665mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.15  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Left tilt 190 GPRS VoIP/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.312 mW/g

**Left tilt 190 GPRS VoIP/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

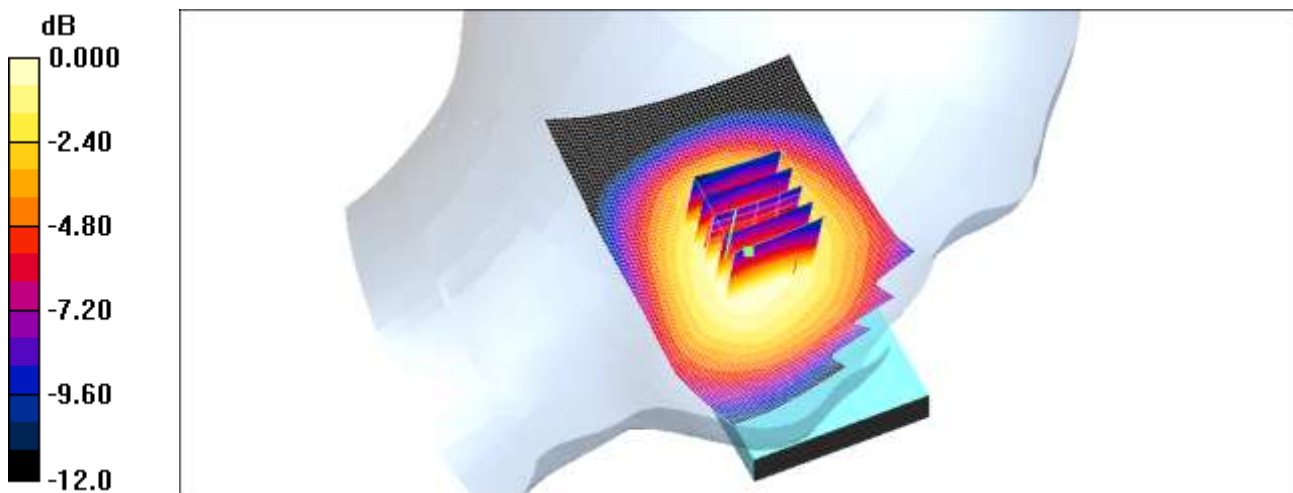
Reference Value = 12.0 V/m; Power Drift = 0.156 dB

Peak SAR (extrapolated) = 0.391 W/kg

**SAR(1 g) = 0.288 mW/g; SAR(10 g) = 0.203 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.304 mW/g



0 dB = 0.304mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.15  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Right touch GPRS VoIP 190/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.645 mW/g

**Right touch GPRS VoIP190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

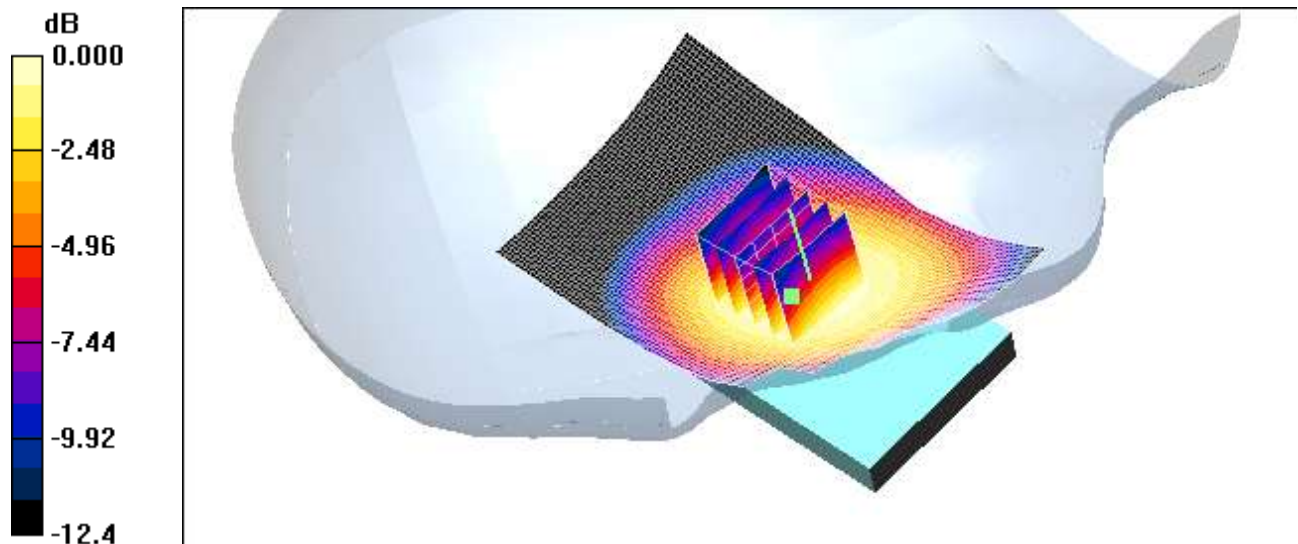
Reference Value = 27.8 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.797 W/kg

**SAR(1 g) = 0.602 mW/g; SAR(10 g) = 0.416 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.635 mW/g



0 dB = 0.635mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.15  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Right tilt GPRS VoIP 190/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.344 mW/g

**Right tilt GPRS VoIP 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

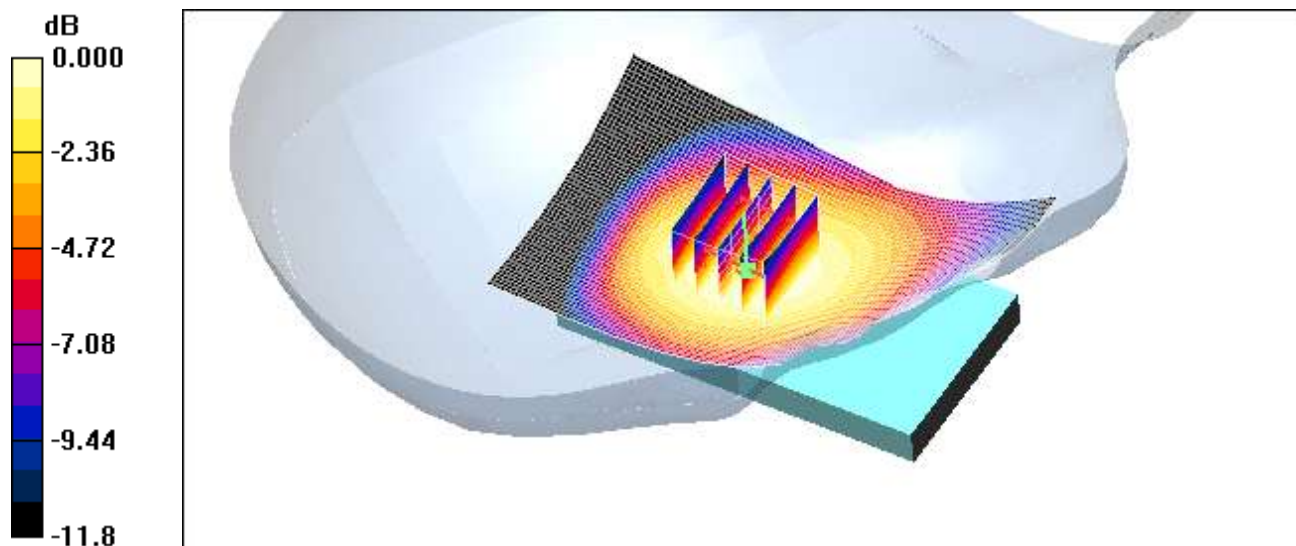
Reference Value = 12.1 V/m; Power Drift = 0.134 dB

Peak SAR (extrapolated) = 0.400 W/kg

**SAR(1 g) = 0.304 mW/g; SAR(10 g) = 0.210 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.328 mW/g



0 dB = 0.328mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug. 1, 2011

**DUT: P9070; Type: Bar; Serial: #1**

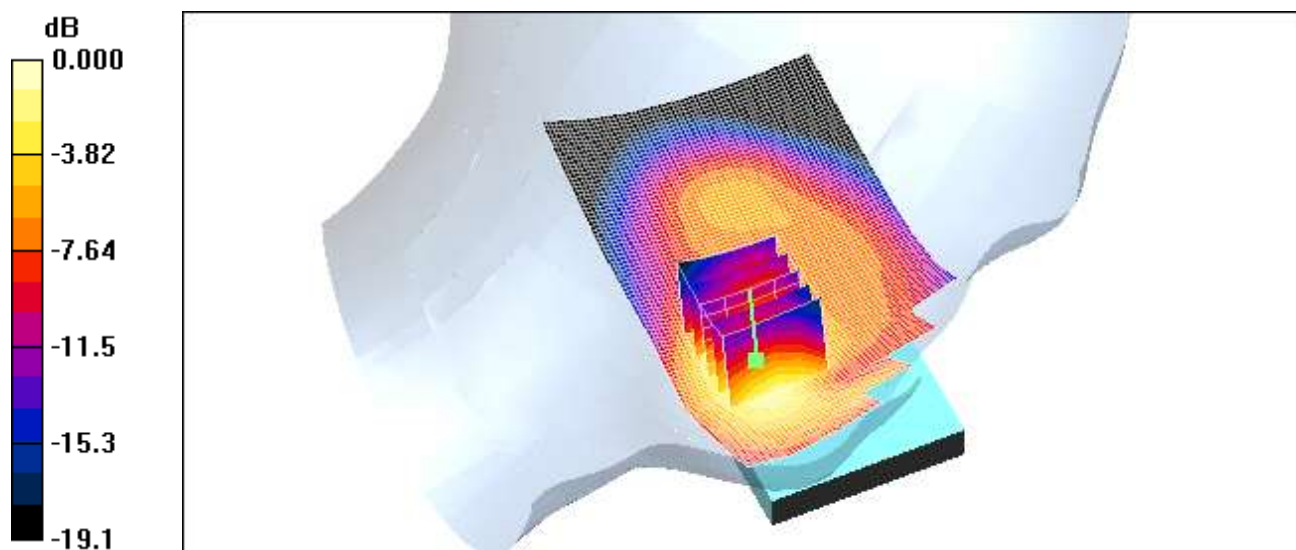
Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Left touch GPRS VOIP 661/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.465 mW/g

**Left touch GPRS VOIP 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.38 V/m; Power Drift = 0.021 dB  
Peak SAR (extrapolated) = 0.581 W/kg  
**SAR(1 g) = 0.402 mW/g; SAR(10 g) = 0.237 mW/g**  
Maximum value of SAR (measured) = 0.448 mW/g



0 dB = 0.448mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug. 1, 2011

**DUT: P9070; Type: Bar; Serial: #1**

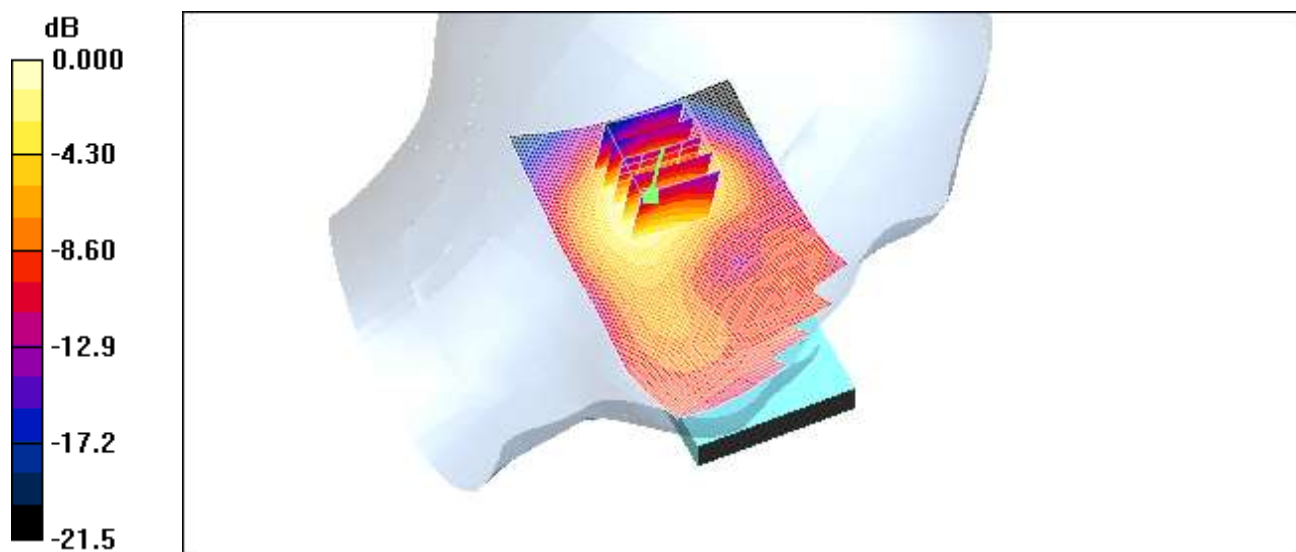
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Left tilt GPRS VOIP 661/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.231 mW/g

**Left tilt GPRS VOIP 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.5 V/m; Power Drift = -0.021 dB  
Peak SAR (extrapolated) = 0.291 W/kg  
**SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.109 mW/g**  
Maximum value of SAR (measured) = 0.202 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug. 1, 2011

**DUT: P9070; Type: Bar; Serial: #1**

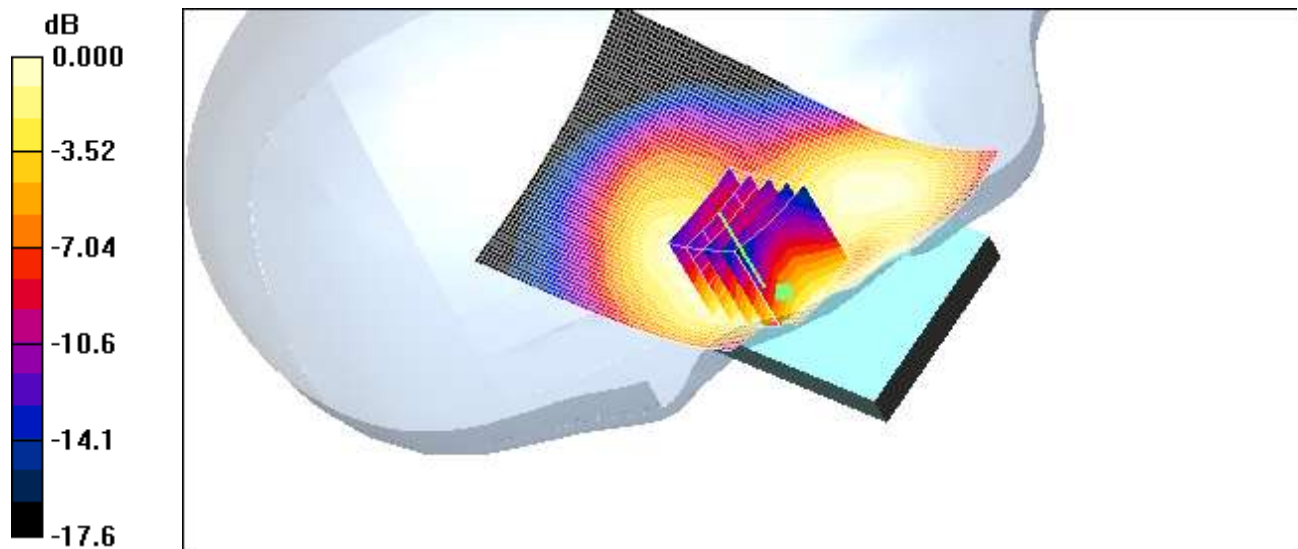
Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Right touch GPRS VoIP661/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.235 mW/g

**Right touch GPRS VoIP 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.10 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 0.320 W/kg  
**SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.139 mW/g**  
Maximum value of SAR (measured) = 0.243 mW/g



0 dB = 0.243mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug. 1, 2011

**DUT: P9070; Type: Bar; Serial: #1**

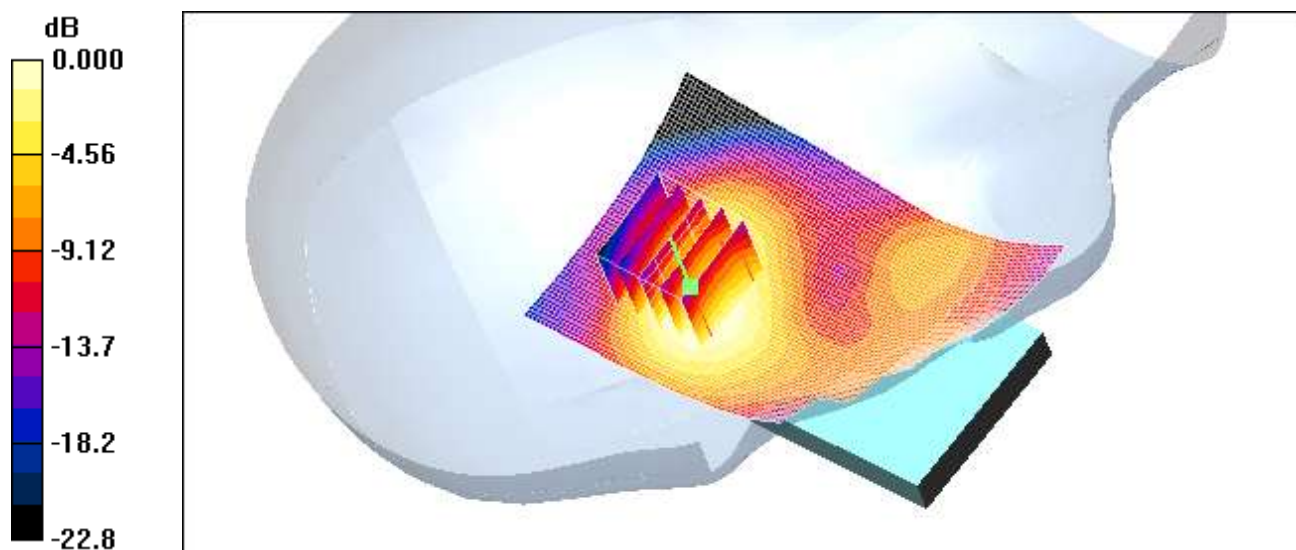
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Right tilt GPRS VoIP 661/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.277 mW/g

**Right tilt GPRS VoIP 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 9.29 V/m; Power Drift = 0.044 dB  
Peak SAR (extrapolated) = 0.318 W/kg  
**SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.129 mW/g**  
Maximum value of SAR (measured) = 0.221 mW/g



0 dB = 0.221 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Left touch 4183/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.796 mW/g

**Left touch 4183/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

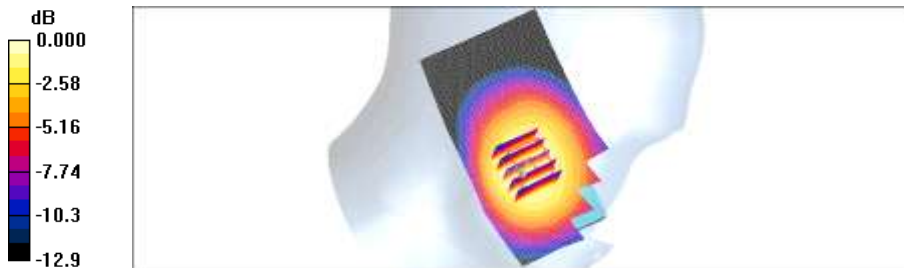
Reference Value = 8.44 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.748 mW/g; SAR(10 g) = 0.513 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.806 mW/g



0 dB = 0.806mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Left tilt 4183/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.400 mW/g

**Left tilt 4183/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

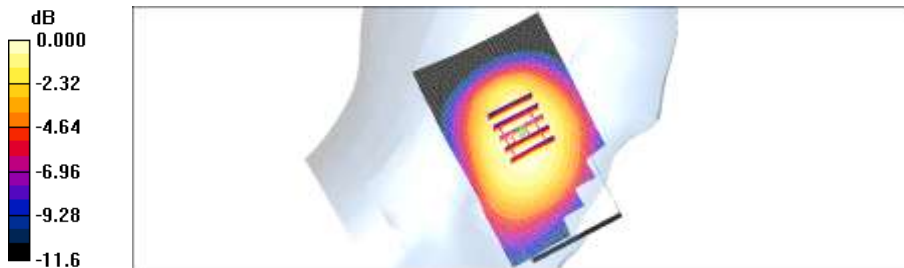
Reference Value = 14.3 V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 0.494 W/kg

**SAR(1 g) = 0.372 mW/g; SAR(10 g) = 0.263 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.394 mW/g



0 dB = 0.394mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: SAM 835/900 MHz; Type: SAM

**Right touch 4183/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.767 mW/g

**Right touch 4183/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

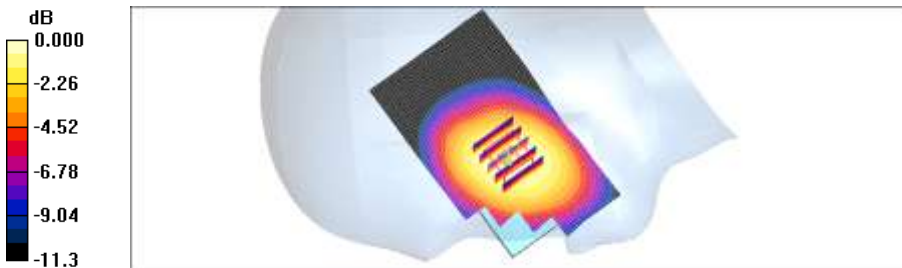
Reference Value = 7.44 V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 0.942 W/kg

**SAR(1 g) = 0.710 mW/g; SAR(10 g) = 0.493 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.765 mW/g



0 dB = 0.765mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Right tilt 4183/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.443 mW/g

**Right tilt 4183/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

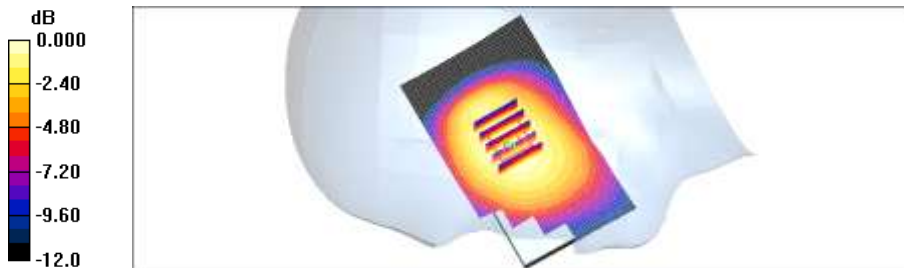
Reference Value = 14.1 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.545 W/kg

**SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.293 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.439 mW/g



0 dB = 0.439mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Left touch 9262/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.49 mW/g

**Left touch 9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

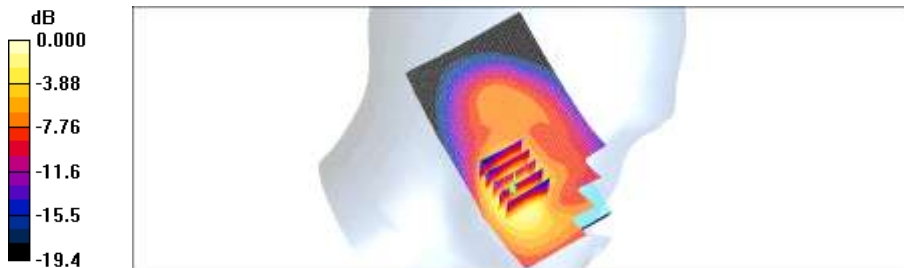
Reference Value = 11.7 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 2.06 W/kg

**SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.785 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.50 mW/g



0 dB = 1.50mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

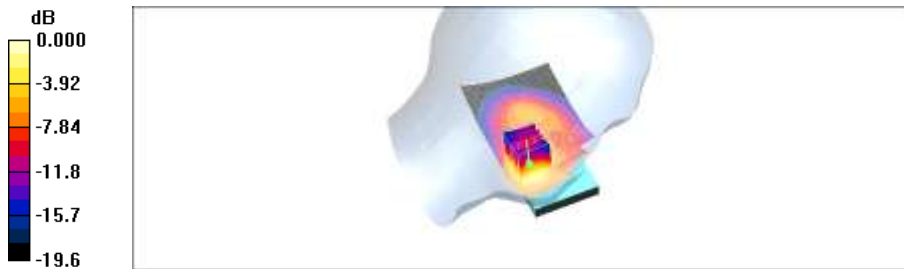
Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Left touch 9400/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.47 mW/g

**Left touch 9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 12.5 V/m; Power Drift = -0.074 dB  
Peak SAR (extrapolated) = 2.05 W/kg  
**SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.791 mW/g**  
Maximum value of SAR (measured) = 1.50 mW/g



0 dB = 1.50mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Left touch 9538/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.42 mW/g

**Left touch 9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

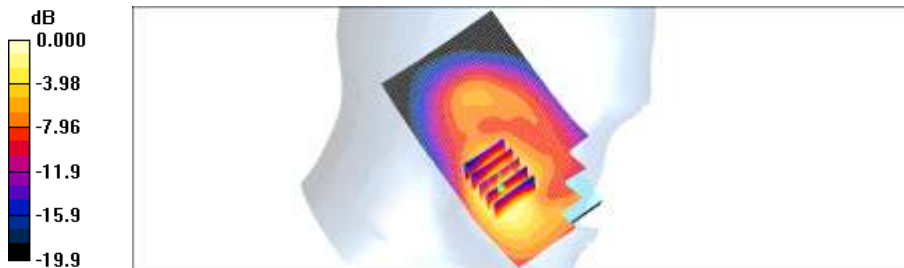
Reference Value = 12.2 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 1.96 W/kg

**SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.738 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.41 mW/g



0 dB = 1.41mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

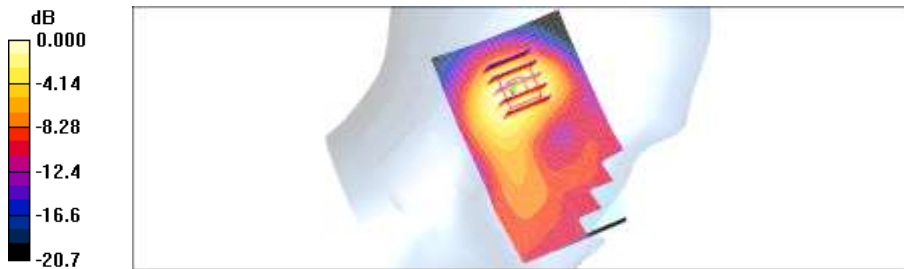
Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Left tilt 9400/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.780 mW/g

**Left tilt 9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 19.6 V/m; Power Drift = -0.186 dB  
Peak SAR (extrapolated) = 1.04 W/kg  
**SAR(1 g) = 0.649 mW/g; SAR(10 g) = 0.373 mW/g**  
Maximum value of SAR (measured) = 0.708 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

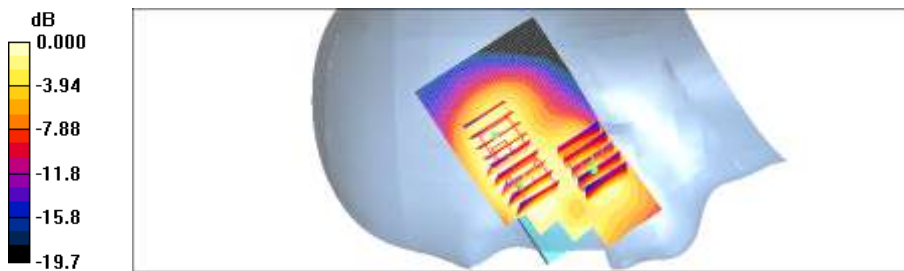
- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Right touch 9400/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.750 mW/g

**Right touch 9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.1 V/m; Power Drift = 0.096 dB  
Peak SAR (extrapolated) = 1.04 W/kg  
**SAR(1 g) = 0.697 mW/g; SAR(10 g) = 0.436 mW/g**  
Maximum value of SAR (measured) = 0.750 mW/g

**Right touch 9400/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.1 V/m; Power Drift = 0.096 dB  
Peak SAR (extrapolated) = 0.920 W/kg  
**SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.376 mW/g**  
Maximum value of SAR (measured) = 0.674 mW/g

**Right touch 9400/Zoom Scan (5x5x7)/Cube 2:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.1 V/m; Power Drift = 0.096 dB  
Peak SAR (extrapolated) = 0.874 W/kg  
**SAR(1 g) = 0.577 mW/g; SAR(10 g) = 0.360 mW/g**  
Maximum value of SAR (measured) = 0.643 mW/g



0 dB = 0.643mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

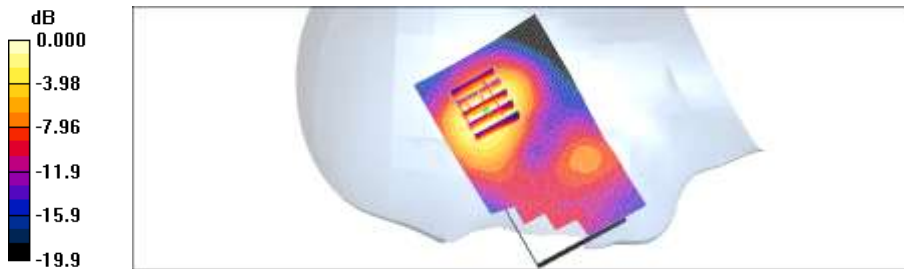
Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Right tilt 9400/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.829 mW/g

**Right tilt 9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 19.6 V/m; Power Drift = 0.177 dB  
Peak SAR (extrapolated) = 1.16 W/kg  
**SAR(1 g) = 0.739 mW/g; SAR(10 g) = 0.433 mW/g**  
Maximum value of SAR (measured) = 0.800 mW/g



0 dB = 0.800mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.28, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: 2450MHz FCC; Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.76$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.56, 4.56, 4.56); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Left touch 6/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.184 mW/g

**Left touch 6/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

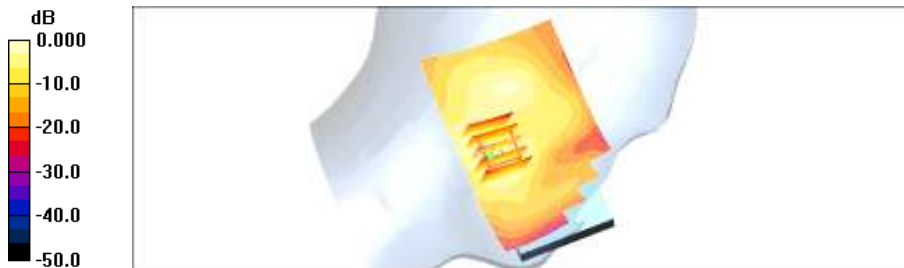
Reference Value = 6.69 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 0.380 W/kg

**SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.083 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.185 mW/g



0 dB = 0.185mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.28, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: 2450MHz FCC; Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.76$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8  
Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(4.56, 4.56, 4.56); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Left tilt 6/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.125 mW/g

**Left tilt 6/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

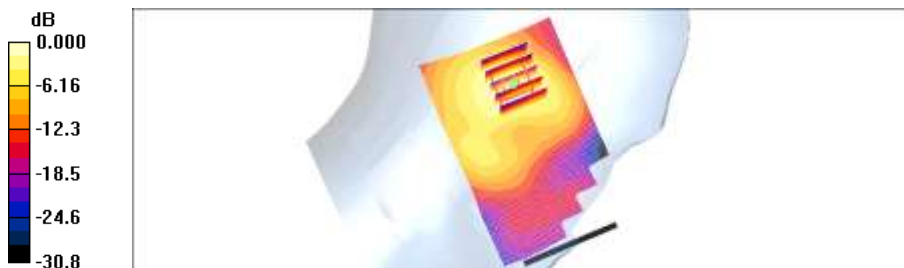
Reference Value = 8.35 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 0.239 W/kg

**SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.056 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.121 mW/g



0 dB = 0.121mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.28, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: 2450MHz FCC; Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.76$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(4.56, 4.56, 4.56); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Right touch 6/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.300 mW/g

**Right touch 6/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

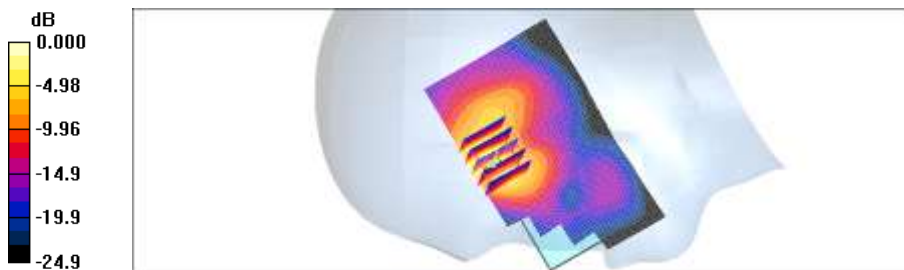
Reference Value = 4.82 V/m; Power Drift = 0.139 dB

Peak SAR (extrapolated) = 0.898 W/kg

**SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.140 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.398 mW/g



0 dB = 0.398mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.28, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: 2450MHz FCC; Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.76$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(4.56, 4.56, 4.56); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Right tilt 6/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.148 mW/g

**Right tilt 6/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

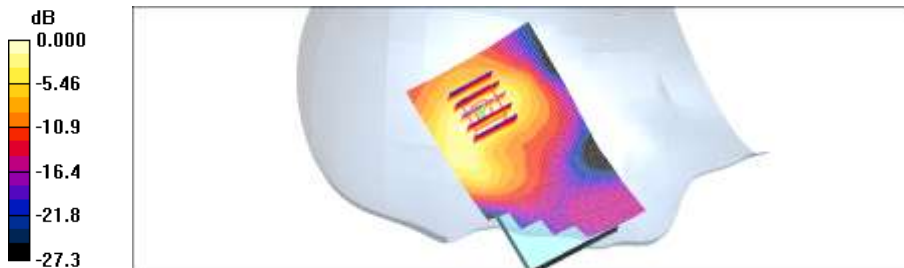
Reference Value = 7.12 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 0.305 W/kg

**SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.066 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.141 mW/g



0 dB = 0.141mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

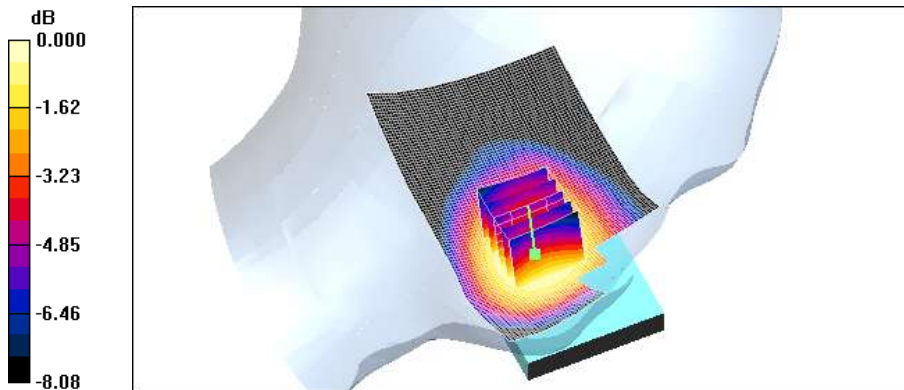
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.877$  mho/m;  $\epsilon_r = 42.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch QPSK 1RB 0 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.545 mW/g

**Left touch QPSK 1RB 0 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 8.51 V/m; Power Drift = -0.032 dB  
Peak SAR (extrapolated) = 0.670 W/kg  
**SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.402 mW/g**  
Maximum value of SAR (measured) = 0.538 mW/g



0 dB = 0.538mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

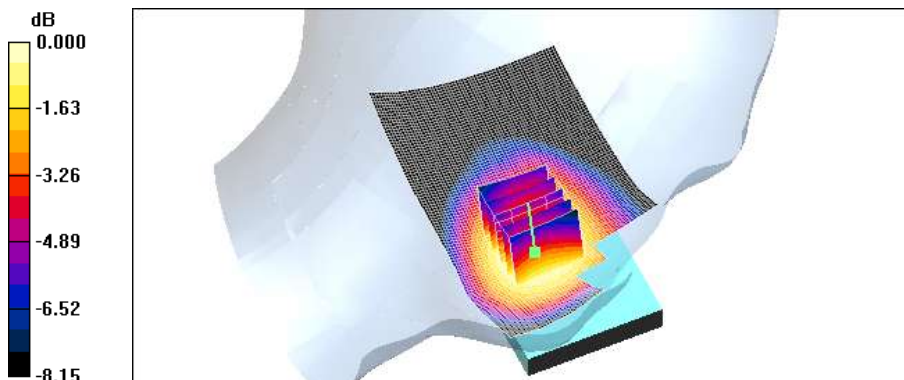
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.877$  mho/m;  $\epsilon_r = 42.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch QPSK 1RB 49 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.540 mW/g

**Left touch QPSK 1RB 49 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 8.26 V/m; Power Drift = -0.023 dB  
Peak SAR (extrapolated) = 0.674 W/kg  
**SAR(1 g) = 0.518 mW/g; SAR(10 g) = 0.402 mW/g**  
Maximum value of SAR (measured) = 0.538 mW/g



0 dB = 0.538mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.877$  mho/m;  $\epsilon_r = 42.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch QPSK 25RB 13 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.422 mW/g

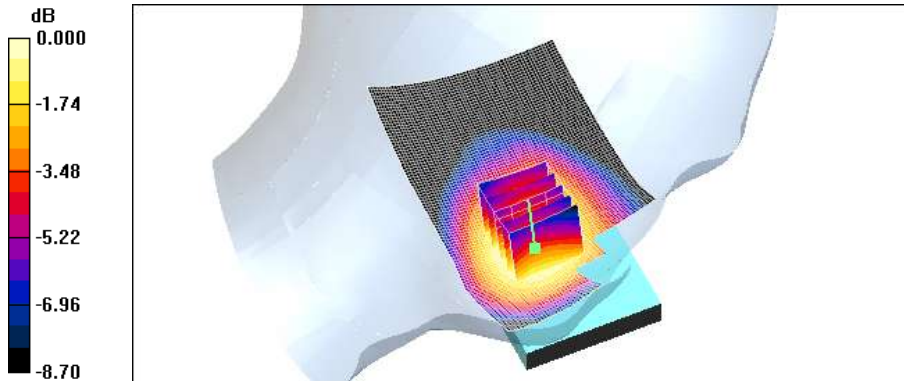
**Left touch QPSK 25RB 13 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.25 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 0.544 W/kg

**SAR(1 g) = 0.405 mW/g; SAR(10 g) = 0.312 mW/g**

Maximum value of SAR (measured) = 0.419 mW/g



0 dB = 0.419mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

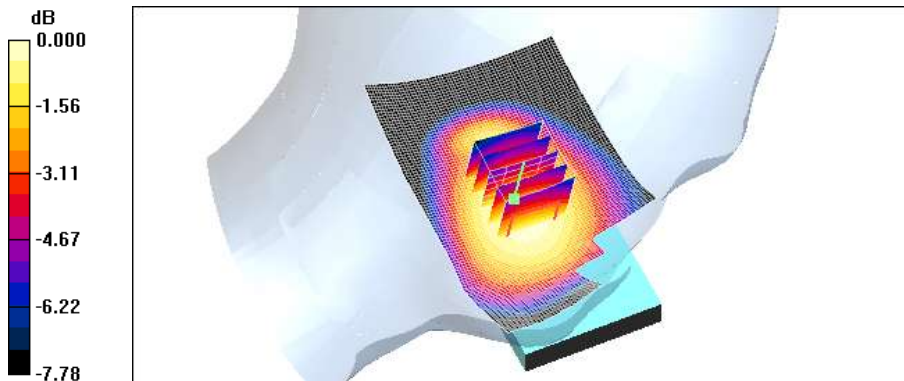
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt QPSK 1RB 0 offset 23790/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.267 mW/g

**Left tilt QPSK 1RB 0 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 11.9 V/m; Power Drift = 0.069 dB  
Peak SAR (extrapolated) = 0.344 W/kg  
**SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.201 mW/g**  
Maximum value of SAR (measured) = 0.270 mW/g



0 dB = 0.270mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

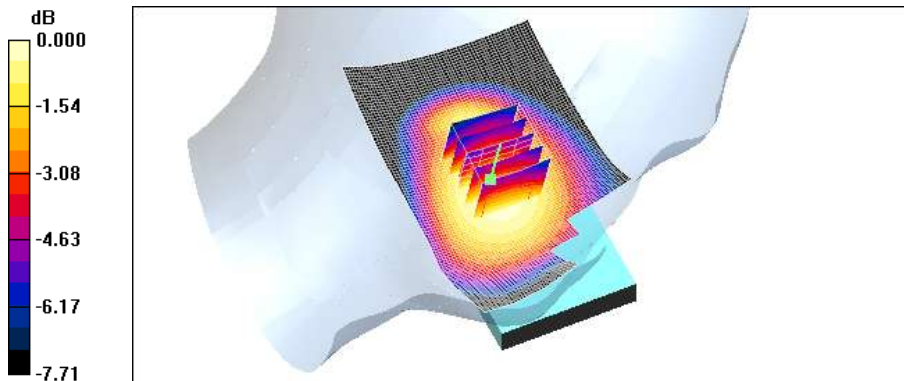
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.877$  mho/m;  $\epsilon_r = 42.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt QPSK 1RB 49 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.289 mW/g

**Left tilt QPSK 1RB 49 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 13.5 V/m; Power Drift = -0.012 dB  
Peak SAR (extrapolated) = 0.374 W/kg  
**SAR(1 g) = 0.280 mW/g; SAR(10 g) = 0.218 mW/g**  
Maximum value of SAR (measured) = 0.292 mW/g



0 dB = 0.292mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

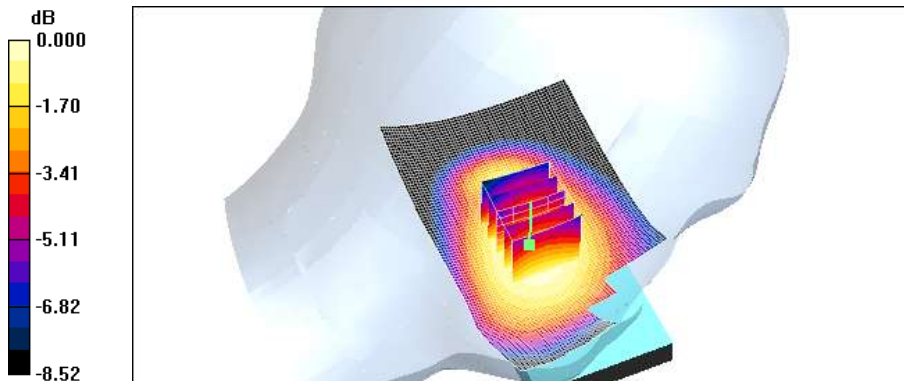
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt QPSK 25RB 13 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.191 mW/g

**Left tilt QPSK 25RB 13 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 10.8 V/m; Power Drift = 0.018 dB  
Peak SAR (extrapolated) = 0.244 W/kg  
**SAR(1 g) = 0.183 mW/g; SAR(10 g) = 0.143 mW/g**  
Maximum value of SAR (measured) = 0.190 mW/g



0 dB = 0.190mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

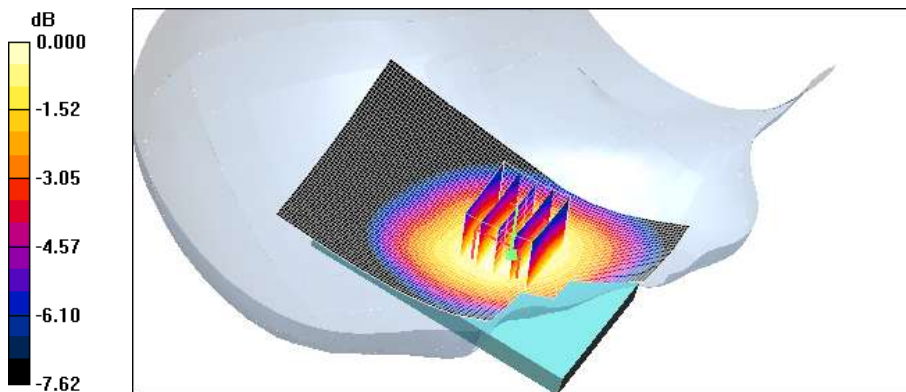
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.877$  mho/m;  $\epsilon_r = 42.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch QPSK1RB 0 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.534 mW/g

**Right touch QPSK1RB 0 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 8.92 V/m; Power Drift = -0.175 dB  
Peak SAR (extrapolated) = 0.706 W/kg  
**SAR(1 g) = 0.506 mW/g; SAR(10 g) = 0.389 mW/g**  
Maximum value of SAR (measured) = 0.526 mW/g



0 dB = 0.526mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

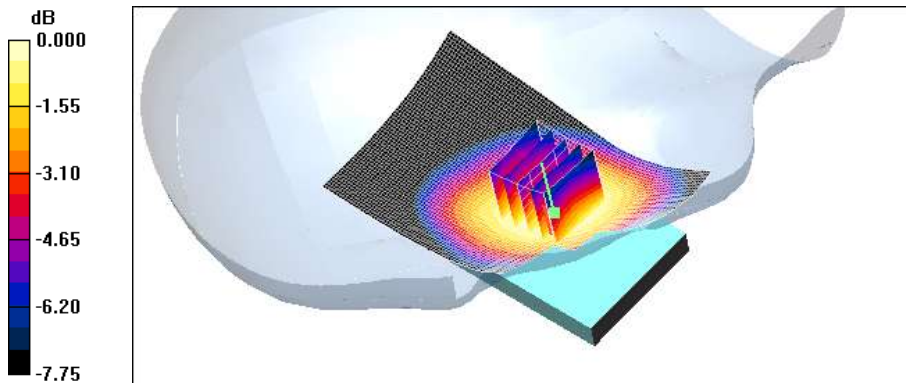
**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch QPSK1RB 49 offset 23790/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.569 mW/g

**Right touch QPSK1RB 49 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 9.53 V/m; Power Drift = -0.077 dB  
Peak SAR (extrapolated) = 0.754 W/kg  
**SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.420 mW/g**  
Maximum value of SAR (measured) = 0.572 mW/g



0 dB = 0.572mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.877$  mho/m;  $\epsilon_r = 42.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch QPSK 25 RB 13 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.347 mW/g

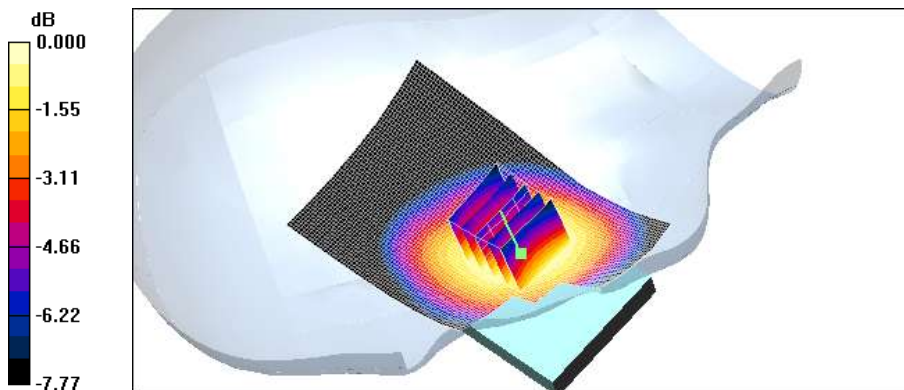
**Right touch QPSK 25 RB 13 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.14 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.461 W/kg

**SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.256 mW/g**

Maximum value of SAR (measured) = 0.350 mW/g



0 dB = 0.350mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

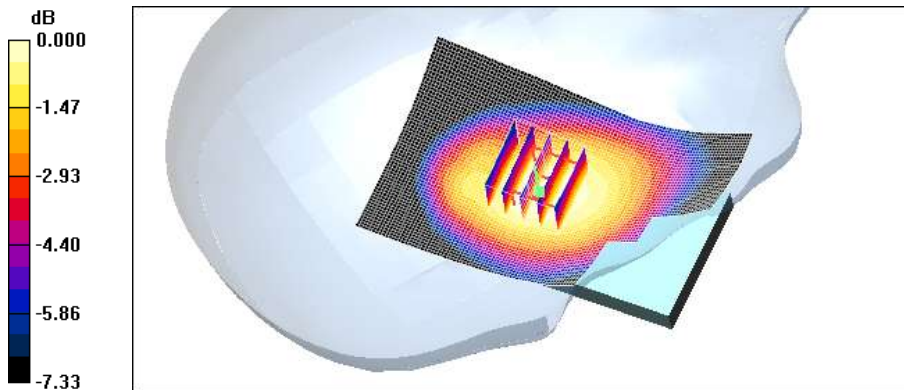
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt QPSK 1 RB 0 offset 23790/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.311 mW/g

**Right tilt QPSK 1 RB 0 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 14.8 V/m; Power Drift = -0.012 dB  
Peak SAR (extrapolated) = 0.397 W/kg  
**SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.231 mW/g**  
Maximum value of SAR (measured) = 0.308 mW/g



0 dB = 0.308mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

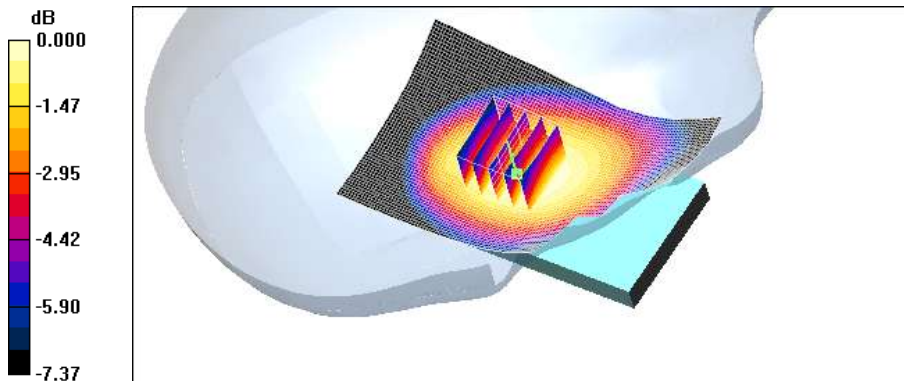
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt QPSK 1 RB 49 offset 23790/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.337 mW/g

**Right tilt QPSK 1 RB 49 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 15.2 V/m; Power Drift = -0.146 dB  
Peak SAR (extrapolated) = 0.419 W/kg  
**SAR(1 g) = 0.316 mW/g; SAR(10 g) = 0.245 mW/g**  
Maximum value of SAR (measured) = 0.327 mW/g



0 dB = 0.327mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

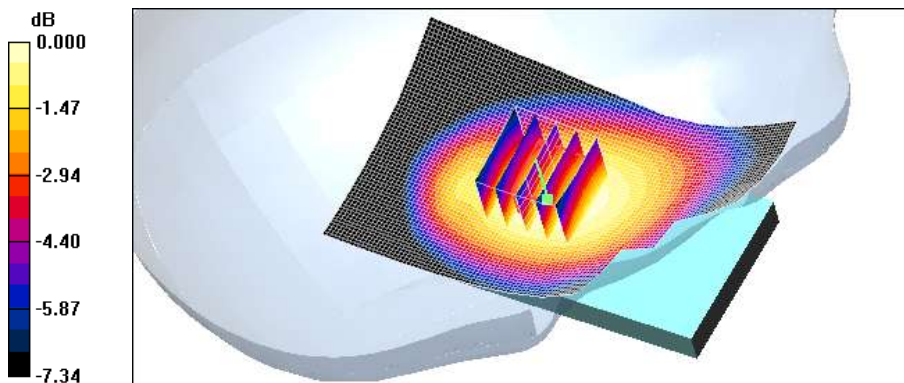
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.877$  mho/m;  $\epsilon_r = 42.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt QPSK 25RB 13 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.189 mW/g

**Right tilt QPSK 25RB 13 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.4 V/m; Power Drift = -0.100 dB  
Peak SAR (extrapolated) = 0.238 W/kg  
**SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.141 mW/g**  
Maximum value of SAR (measured) = 0.187 mW/g



0 dB = 0.187mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.877$  mho/m;  $\epsilon_r = 42.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 16QAM 1RB 0 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.457 mW/g

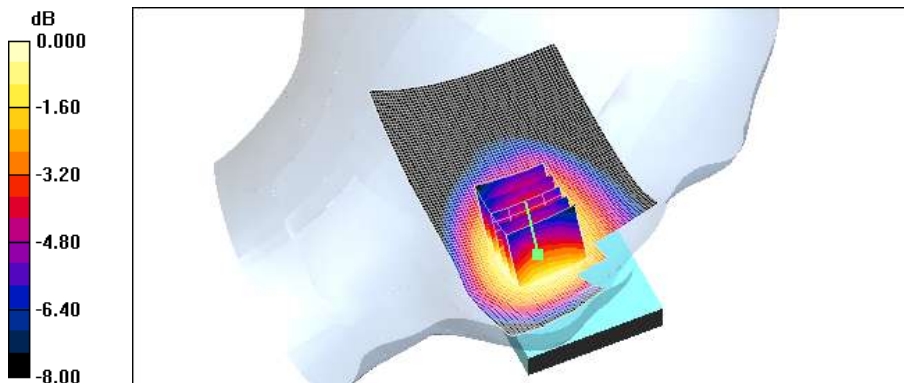
**Left touch 16QAM 1RB 0 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.56 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 0.574 W/kg

**SAR(1 g) = 0.431 mW/g; SAR(10 g) = 0.336 mW/g**

Maximum value of SAR (measured) = 0.449 mW/g



0 dB = 0.449mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.877$  mho/m;  $\epsilon_r = 42.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 16QAM 1RB 49 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.466 mW/g

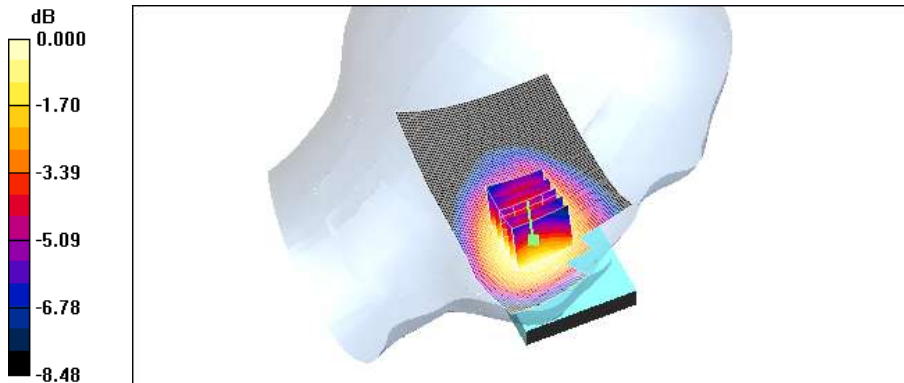
**Left touch 16QAM 1RB 49 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.93 V/m; Power Drift = -0.049 dB

Peak SAR (extrapolated) = 0.580 W/kg

**SAR(1 g) = 0.442 mW/g; SAR(10 g) = 0.341 mW/g**

Maximum value of SAR (measured) = 0.457 mW/g



0 dB = 0.457mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 16QAM 25RB 13 offset 23790/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.292 mW/g

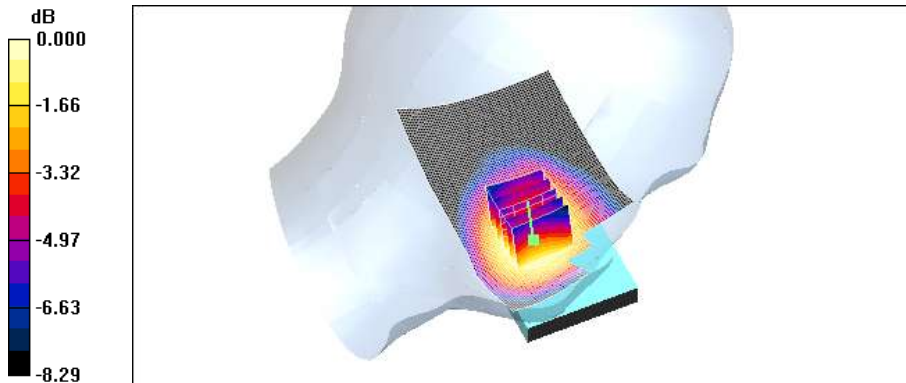
**Left touch 16QAM 25RB 13 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 5.99 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 0.364 W/kg

**SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.214 mW/g**

Maximum value of SAR (measured) = 0.287 mW/g



0 dB = 0.287mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

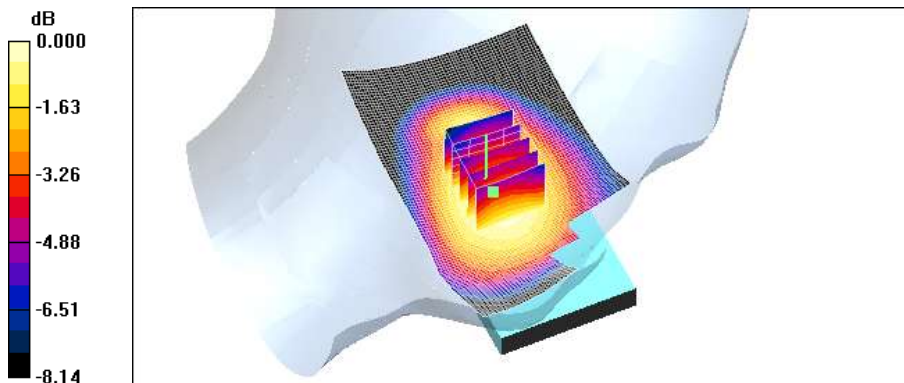
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.877$  mho/m;  $\epsilon_r = 42.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 16QAM 1 RB 0 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.233 mW/g

**Left tilt 16QAM 1 RB 0 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 12.3 V/m; Power Drift = 0.132 dB  
Peak SAR (extrapolated) = 0.305 W/kg  
**SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.177 mW/g**  
Maximum value of SAR (measured) = 0.237 mW/g



0 dB = 0.237mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

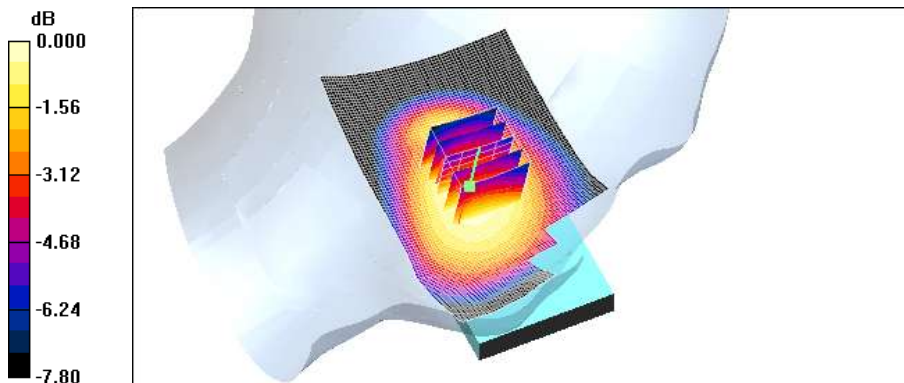
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 16QAM 1 RB 49 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.251 mW/g

**Left tilt 16QAM 1 RB 49 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 13.0 V/m; Power Drift = -0.072 dB  
Peak SAR (extrapolated) = 0.333 W/kg  
**SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.185 mW/g**  
Maximum value of SAR (measured) = 0.252 mW/g



0 dB = 0.252mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

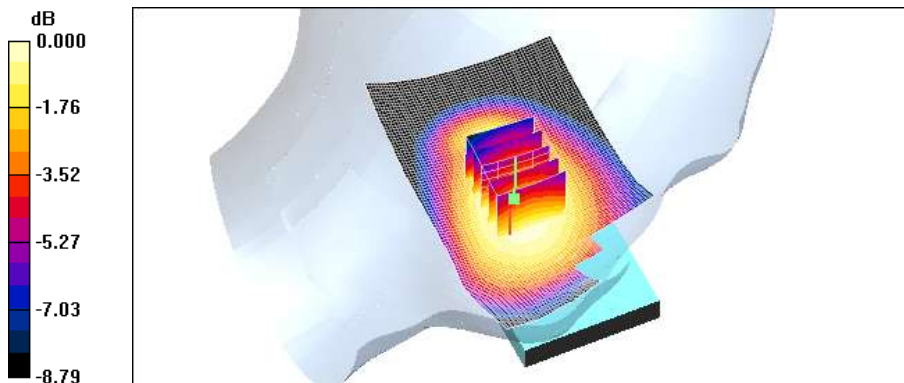
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 16QAM 25RB 13 offset 23790/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.157 mW/g

**Left tilt 16QAM 25RB 13 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 9.72 V/m; Power Drift = -0.039 dB  
Peak SAR (extrapolated) = 0.201 W/kg  
**SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.118 mW/g**  
Maximum value of SAR (measured) = 0.156 mW/g



0 dB = 0.156mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 16QAM 1RB 0 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.427 mW/g

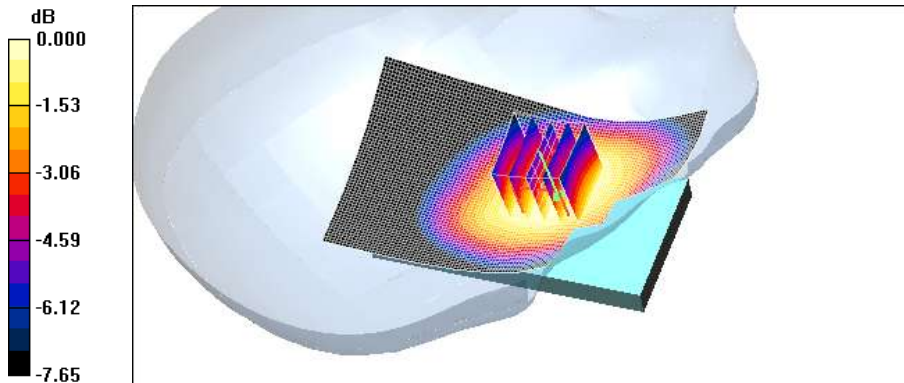
**Right touch 16QAM 1RB 0 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.86 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 0.551 W/kg

**SAR(1 g) = 0.404 mW/g; SAR(10 g) = 0.311 mW/g**

Maximum value of SAR (measured) = 0.422 mW/g



0 dB = 0.422mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.877$  mho/m;  $\epsilon_r = 42.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 16QAM 1RB 49 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.436 mW/g

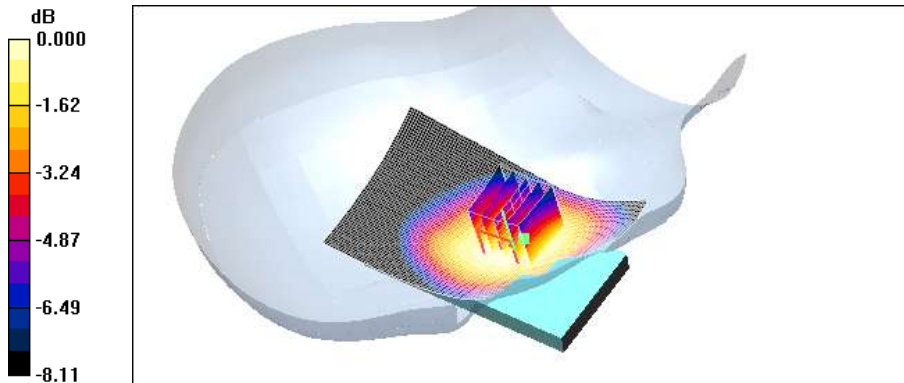
**Right touch 16QAM 1RB 49 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.73 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.544 W/kg

**SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.323 mW/g**

Maximum value of SAR (measured) = 0.426 mW/g



0 dB = 0.426mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 16QAM 25RB 13offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.258 mW/g

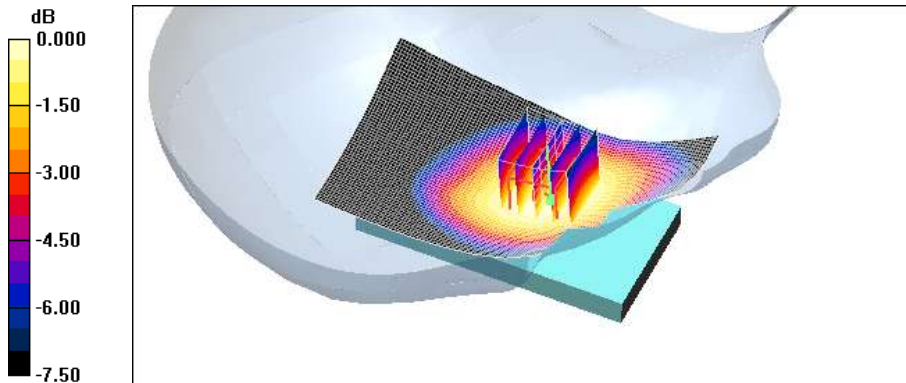
**Right touch 16QAM 25RB 13offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.37 V/m; Power Drift = -0.104 dB

Peak SAR (extrapolated) = 0.327 W/kg

**SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.190 mW/g**

Maximum value of SAR (measured) = 0.256 mW/g



0 dB = 0.256mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

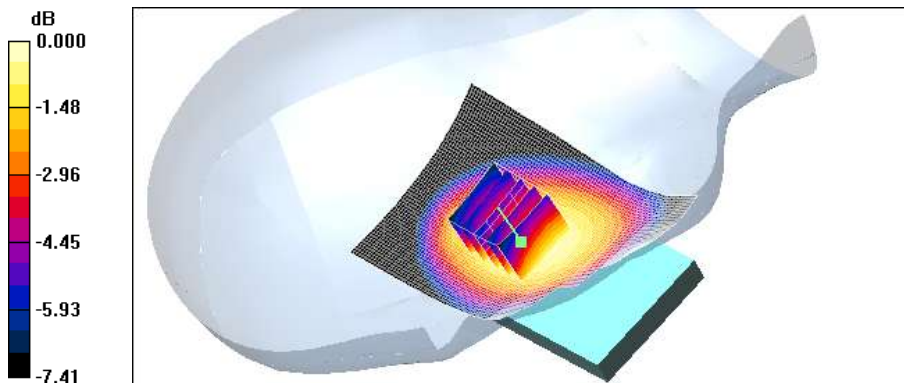
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 16QAM 1RB 0 offset 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.260 mW/g

**Right tilt 16QAM 1RB 0 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 13.3 V/m; Power Drift = 0.067 dB  
Peak SAR (extrapolated) = 0.340 W/kg  
**SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.191 mW/g**  
Maximum value of SAR (measured) = 0.258 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

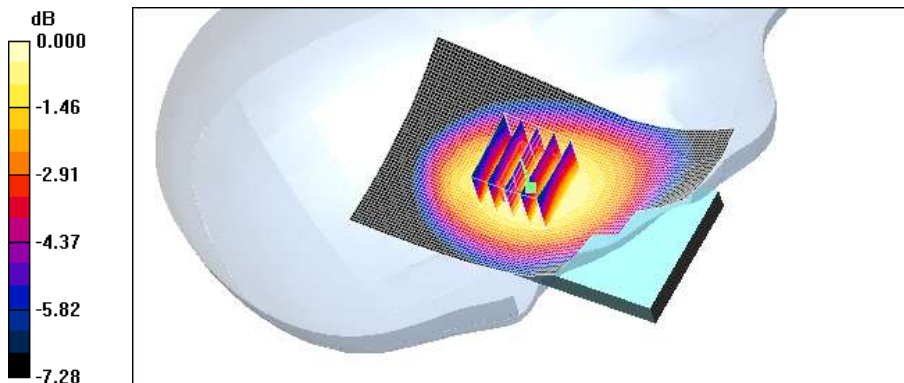
Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 16QAM 1RB 49 offset 23790/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.279 mW/g

**Right tilt 16QAM 1RB 49 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 14.3 V/m; Power Drift = -0.068 dB  
Peak SAR (extrapolated) = 0.359 W/kg  
**SAR(1 g) = 0.270 mW/g; SAR(10 g) = 0.208 mW/g**  
Maximum value of SAR (measured) = 0.285 mW/g



0 dB = 0.285mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 16QAM 25RB 13offset 23790/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.165 mW/g

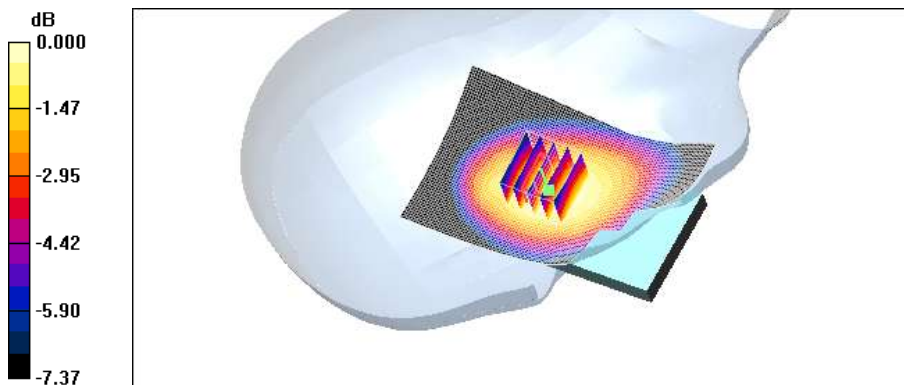
**Right tilt 16QAM 25RB 13offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 10.7 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 0.209 W/kg

**SAR(1 g) = 0.158 mW/g; SAR(10 g) = 0.122 mW/g**

Maximum value of SAR (measured) = 0.165 mW/g



0 dB = 0.165mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch QPSK 1 RB 0 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.747 mW/g

**Left touch QPSK 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

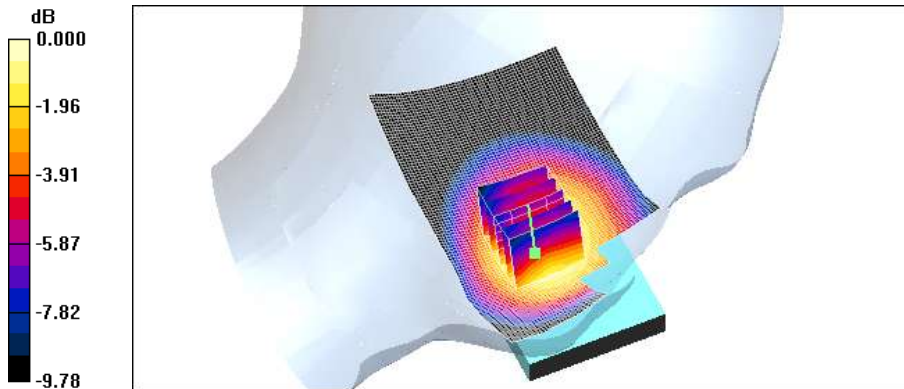
Reference Value = 8.37 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 0.878 W/kg

**SAR(1 g) = 0.698 mW/g; SAR(10 g) = 0.516 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.734 mW/g



0 dB = 0.734mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch QPSK 1 RB 49 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.587 mW/g

**Left touch QPSK 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

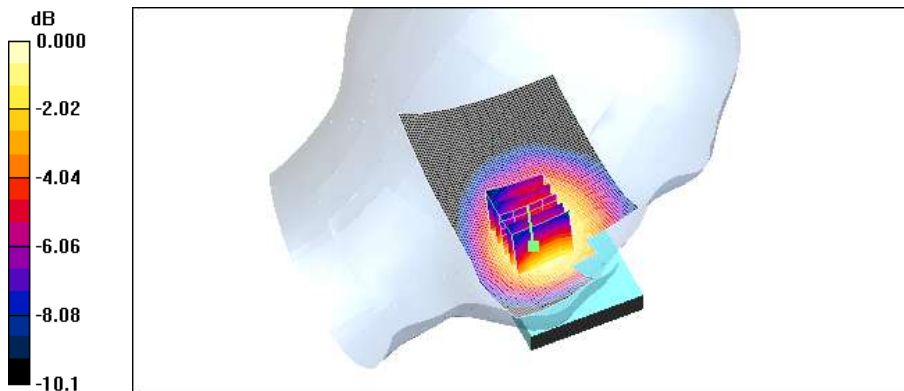
Reference Value = 7.27 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.709 W/kg

**SAR(1 g) = 0.563 mW/g; SAR(10 g) = 0.424 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.593 mW/g



0 dB = 0.593mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch QPSK 25 RB 13 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.622 mW/g

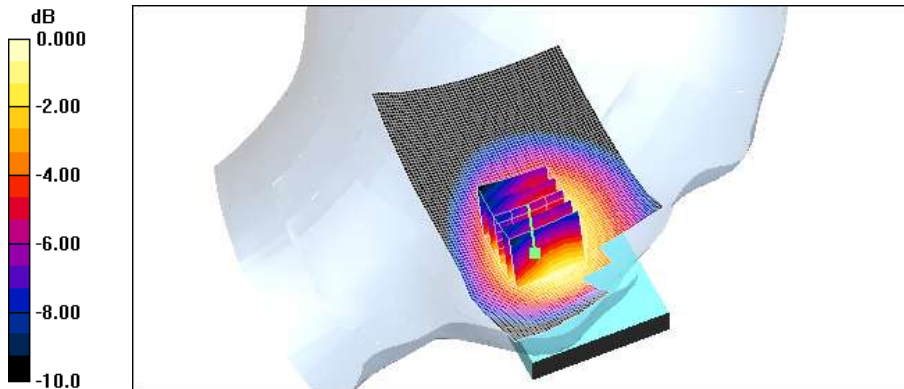
**Left touch QPSK 25 RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.37 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.728 W/kg

**SAR(1 g) = 0.585 mW/g; SAR(10 g) = 0.431 mW/g**

Maximum value of SAR (measured) = 0.611 mW/g



0 dB = 0.611mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt QPSK 1 RB 0 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.430 mW/g

**Left tilt QPSK 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

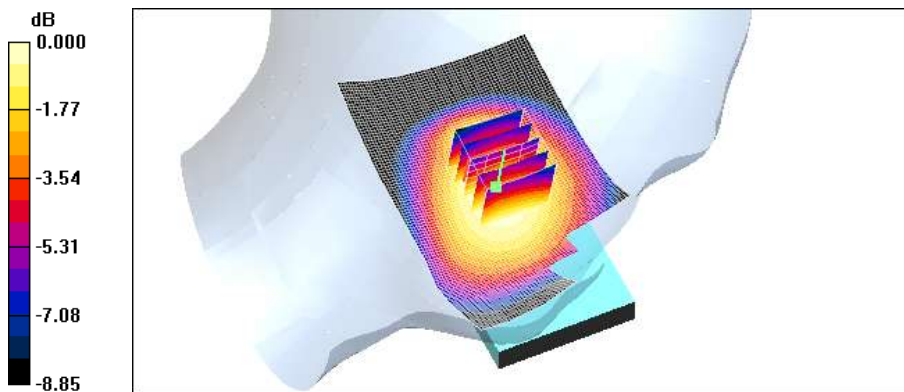
Reference Value = 14.1 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 0.470 W/kg

**SAR(1 g) = 0.399 mW/g; SAR(10 g) = 0.309 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.417 mW/g



0 dB = 0.417mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt QPSK 1 RB 49 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.385 mW/g

**Left tilt QPSK 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

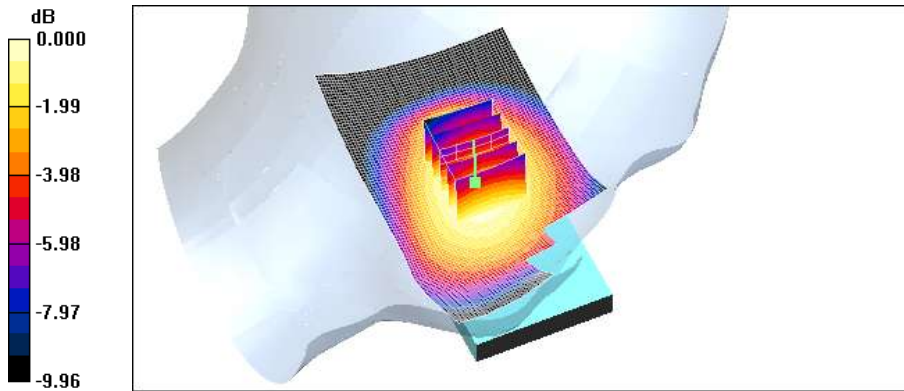
Reference Value = 13.2 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.430 W/kg

**SAR(1 g) = 0.358 mW/g; SAR(10 g) = 0.277 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.375 mW/g



0 dB = 0.375mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt QPSK 25 RB 13 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.340 mW/g

**Left tilt QPSK 25 RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

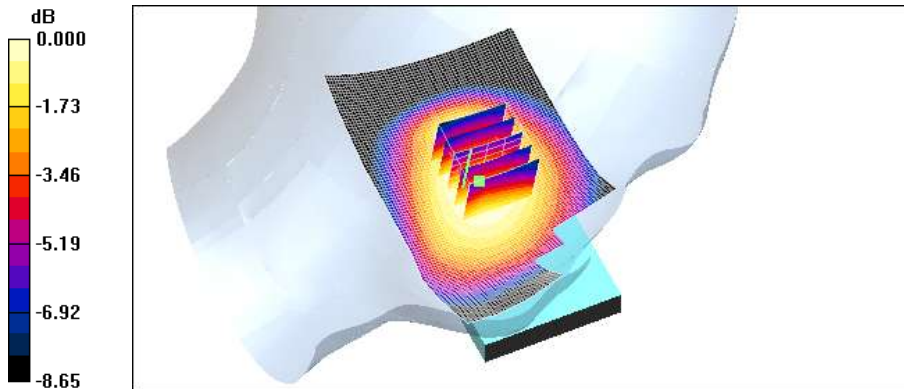
Reference Value = 13.8 V/m; Power Drift = -008.1 dB

Peak SAR (extrapolated) = 0.355 W/kg

**SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.225 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.307 mW/g



0 dB = 0.307mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch QPSK 1 RB 0 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.449 mW/g

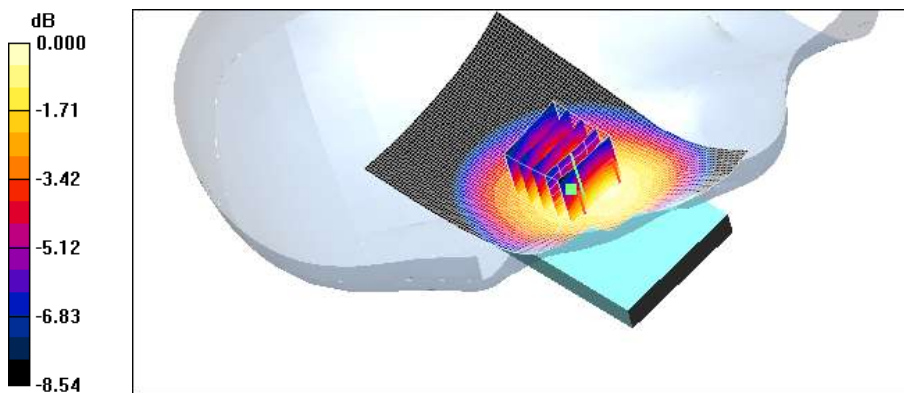
**Right touch QPSK 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.56 V/m; Power Drift = -0.092 dB

Peak SAR (extrapolated) = 0.538 W/kg

**SAR(1 g) = 0.456 mW/g; SAR(10 g) = 0.350 mW/g**

Maximum value of SAR (measured) = 0.474 mW/g



0 dB = 0.474mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch QPSK 1 RB 49 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.394 mW/g

**Right touch QPSK 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

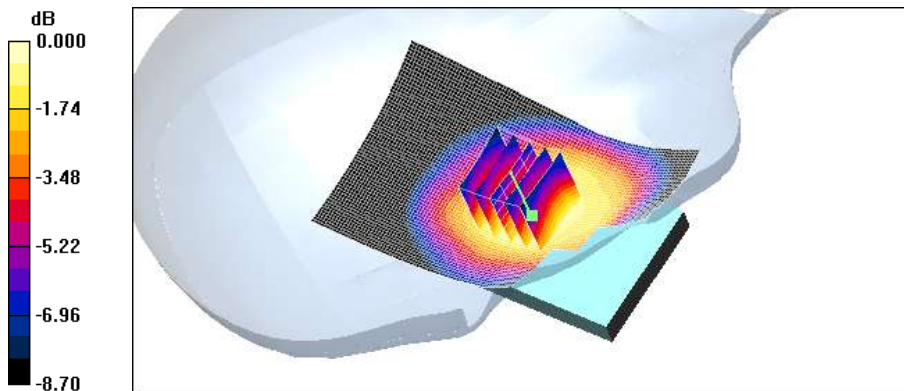
Reference Value = 7.40 V/m; Power Drift = 0.120 dB

Peak SAR (extrapolated) = 0.429 W/kg

**SAR(1 g) = 0.356 mW/g; SAR(10 g) = 0.268 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.377 mW/g



0 dB = 0.377mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch QPSK 25 RB 13 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.365 mW/g

**Right touch QPSK 25 RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

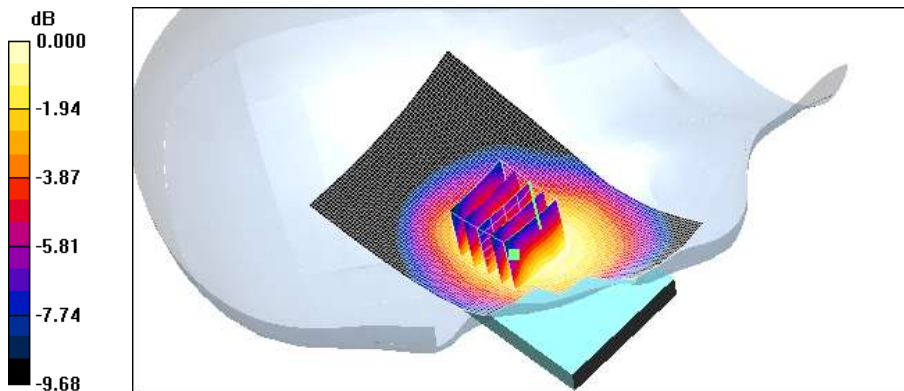
Reference Value = 6.29 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.419 W/kg

**SAR(1 g) = 0.316 mW/g; SAR(10 g) = 0.237 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.359 mW/g



0 dB = 0.359mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt QPSK 1 RB 0 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.407 mW/g

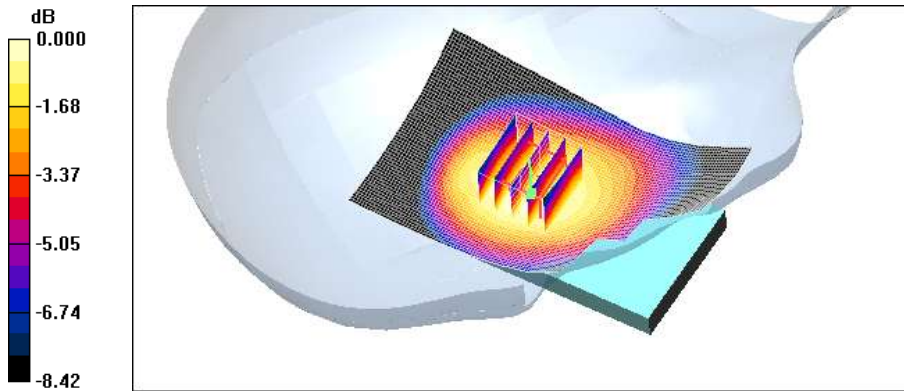
**Right tilt QPSK 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.1 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.452 W/kg

**SAR(1 g) = 0.384 mW/g; SAR(10 g) = 0.296 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.400 mW/g



0 dB = 0.400mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt QPSK 1RB 49 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.355 mW/g

**Right tilt QPSK 1RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

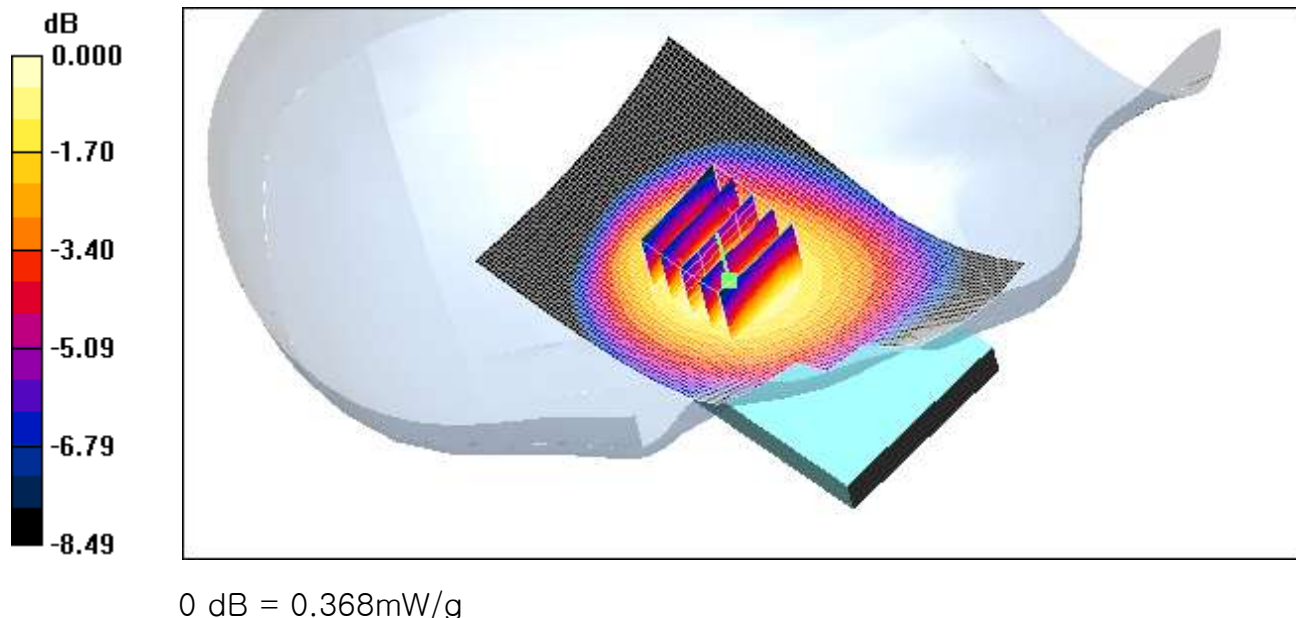
Reference Value = 14.2 V/m; Power Drift = 0.154 dB

Peak SAR (extrapolated) = 0.413 W/kg

**SAR(1 g) = 0.349 mW/g; SAR(10 g) = 0.266 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.368 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt QPSK 25RB 13 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.308 mW/g

**Right tilt QPSK 25RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

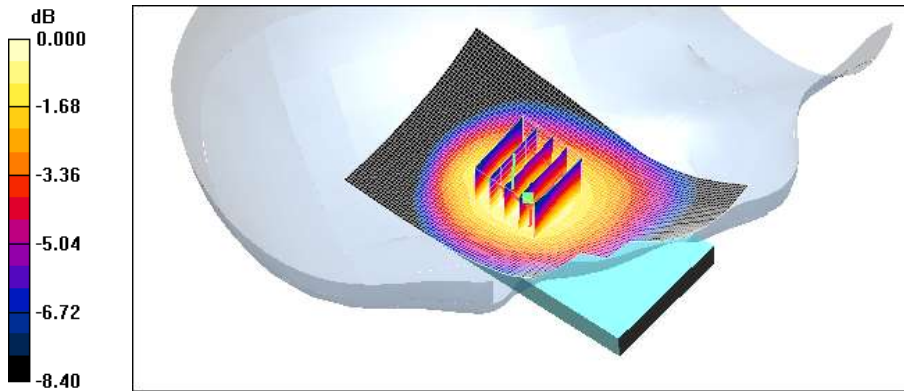
Reference Value = 13.8 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.366 W/kg

**SAR(1 g) = 0.309 mW/g; SAR(10 g) = 0.237 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.322 mW/g



0 dB = 0.322mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 16QAM 1 RB 0 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.592 mW/g

**Left touch 16QAM 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

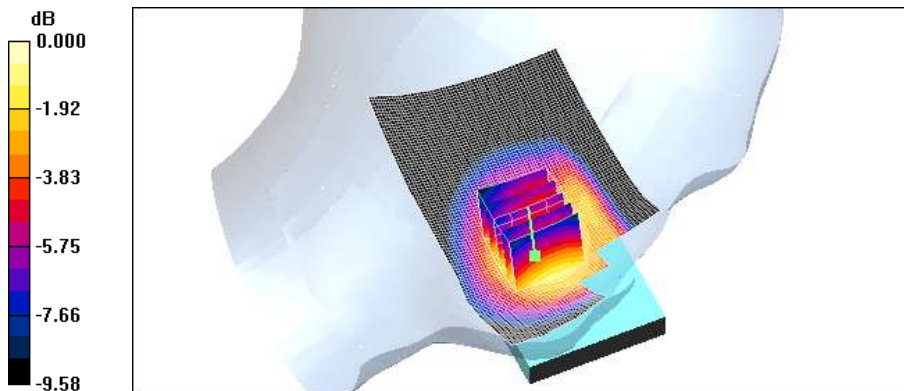
Reference Value = 6.99 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.769 W/kg

**SAR(1 g) = 0.624 mW/g; SAR(10 g) = 0.472 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.659 mW/g



0 dB = 0.659mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 16QAM 1 RB 49 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.557 mW/g

**Left touch 16QAM 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

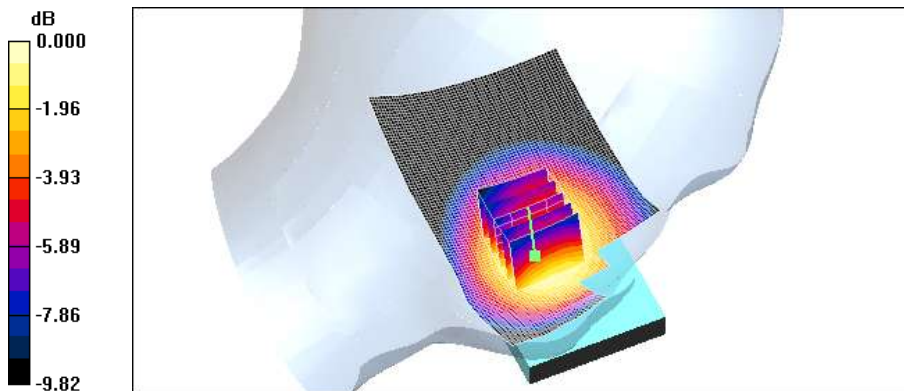
Reference Value = 5.75 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 0.629 W/kg

**SAR(1 g) = 0.506 mW/g; SAR(10 g) = 0.378 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.532 mW/g



0 dB = 0.532mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 16QAM 25 RB 13 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.545 mW/g

**Left touch 16QAM 25 RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

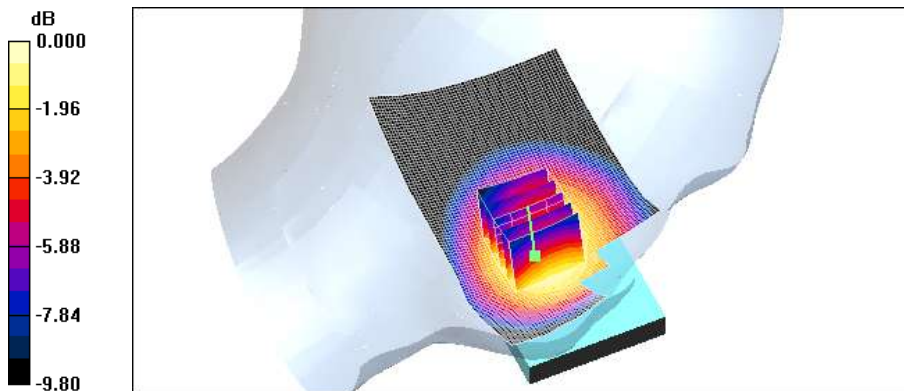
Reference Value = 5.69 V/m; Power Drift = -0.185 dB

Peak SAR (extrapolated) = 0.625 W/kg

**SAR(1 g) = 0.500 mW/g; SAR(10 g) = 0.375 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.534 mW/g



0 dB = 0.534mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 16QAM 1 RB 0 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.350 mW/g

**Left tilt 16QAM 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

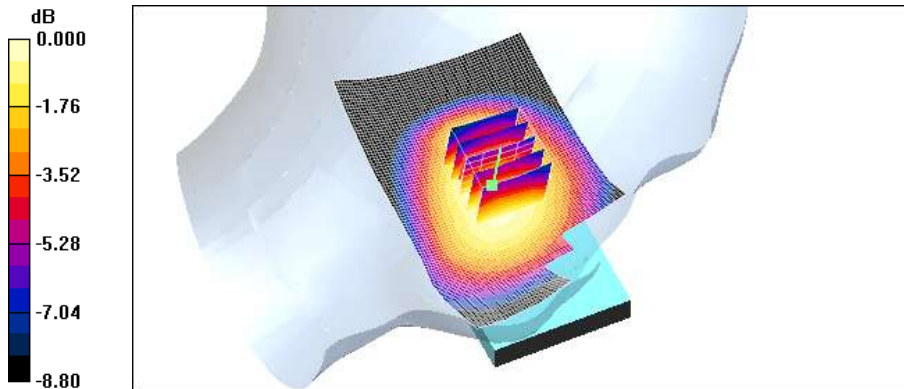
Reference Value = 13.1 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.403 W/kg

**SAR(1 g) = 0.338 mW/g; SAR(10 g) = 0.260 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.352 mW/g



0 dB = 0.352mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 16QAM 1 RB 49 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.321 mW/g

**Left tilt 16QAM 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

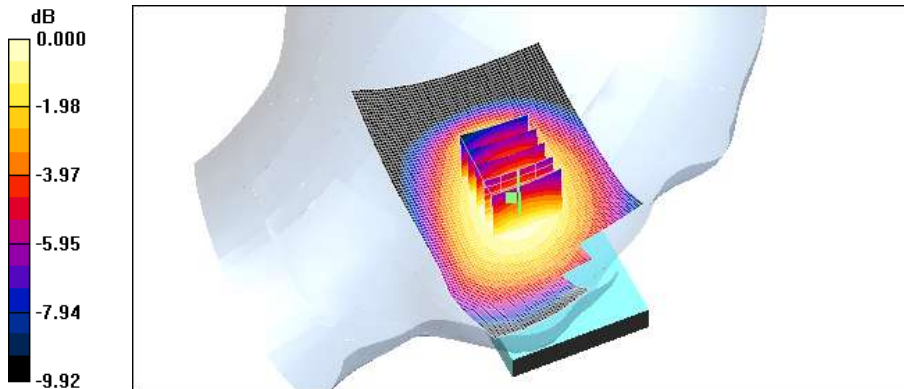
Reference Value = 12.0 V/m; Power Drift = -0.176 dB

Peak SAR (extrapolated) = 0.349 W/kg

**SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.226 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.301 mW/g



0 dB = 0.301mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 16QAM 25 RB 13 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.287 mW/g

**Left tilt 16QAM 25 RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

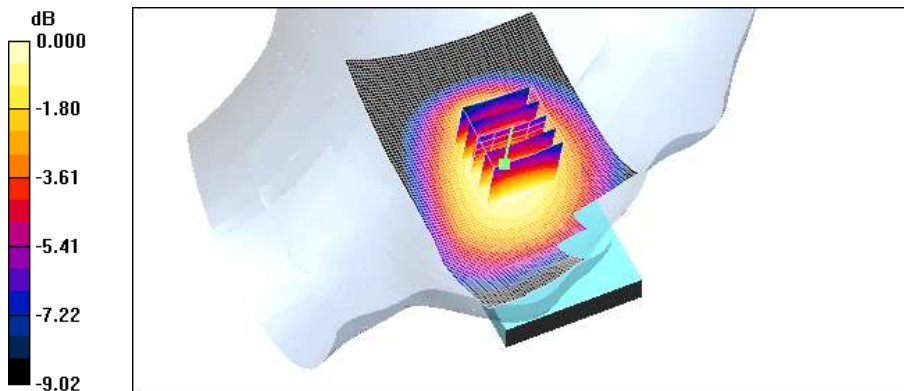
Reference Value = 11.5 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 0.325 W/kg

**SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.209 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.288 mW/g



0 dB = 0.288mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 16QAM 1 RB 0 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.377 mW/g

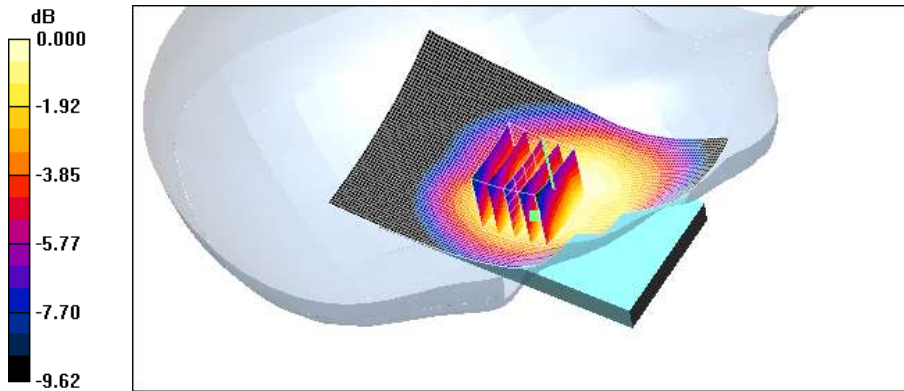
**Right touch 16QAM 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.64 V/m; Power Drift = 0.092 dB

Peak SAR (extrapolated) = 0.425 W/kg

**SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.270 mW/g**

Maximum value of SAR (measured) = 0.365 mW/g



0 dB = 0.365mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 16QAM 1RB 49 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.359 mW/g

**Right touch 16QAM 1RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

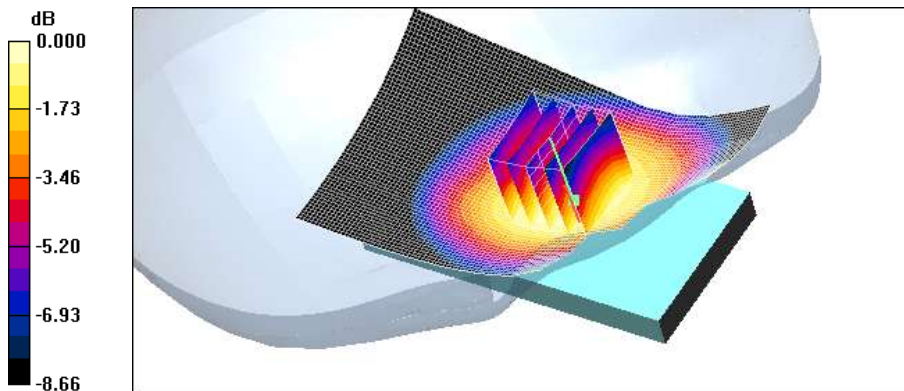
Reference Value = 6.63 V/m; Power Drift = -0.170 dB

Peak SAR (extrapolated) = 0.392 W/kg

**SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.261 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.351 mW/g



0 dB = 0.351mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 16QAM 25RB 13 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.273 mW/g

**Right touch 16QAM 25RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

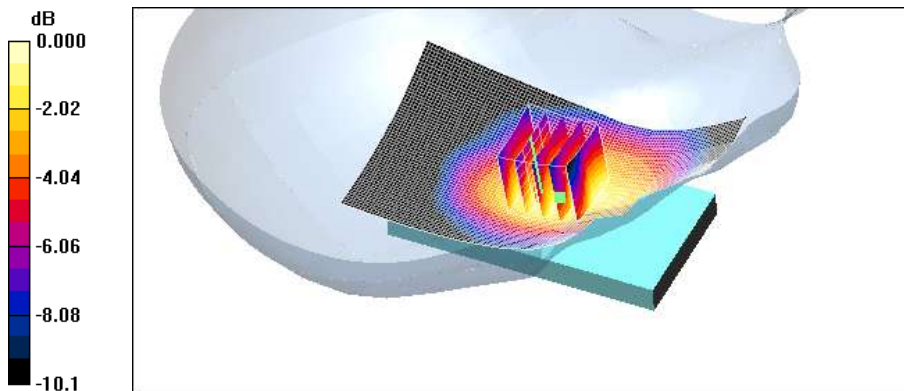
Reference Value = 6.12 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.351 W/kg

**SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.217 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.309 mW/g



0 dB = 0.309mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 16QAM 1 RB 0 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.231 mW/g

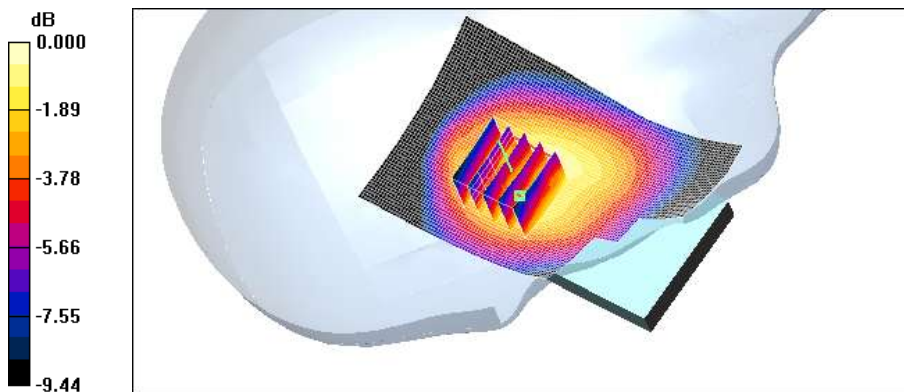
**Right tilt 16QAM 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = 0.135 dB

Peak SAR (extrapolated) = 0.300 W/kg

**SAR(1 g) = 0.239 mW/g; SAR(10 g) = 0.180 mW/g**

Maximum value of SAR (measured) = 0.262 mW/g



0 dB = 0.262mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 16QAM 1 RB 49 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.210 mW/g

**Right tilt 16QAM 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

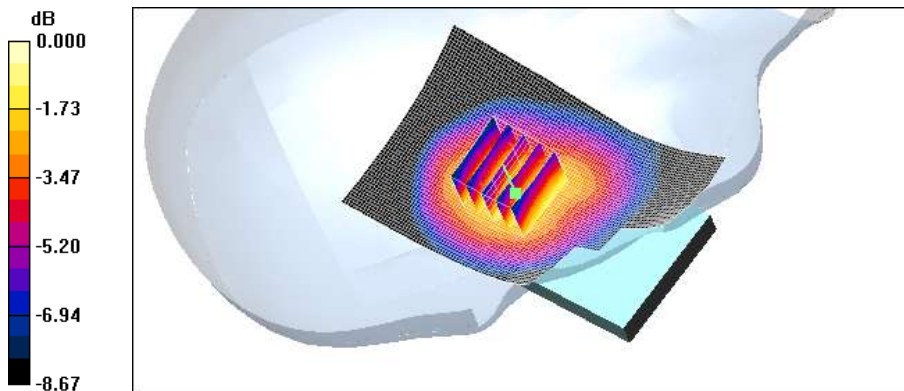
Reference Value = 11.6 V/m; Power Drift = 0.085 dB

Peak SAR (extrapolated) = 0.330 W/kg

**SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.217 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.292 mW/g



0 dB = 0.292mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 16QAM 25RB 13 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.260 mW/g

**Right tilt 16QAM 25RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

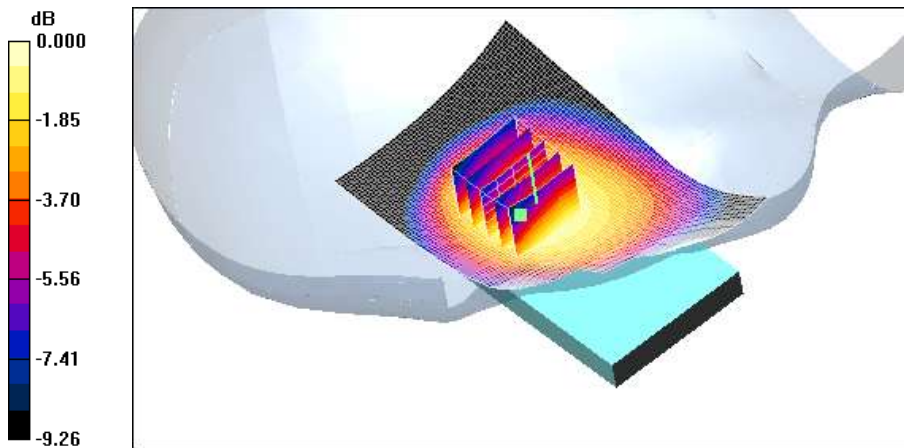
Reference Value = 12.2 V/m; Power Drift = 0.124 dB

Peak SAR (extrapolated) = 0.306 W/kg

**SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.199 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.271 mW/g



0 dB = 0.271mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 835/900 Phantom ; Type: SAM

**Left touch QPSK 1 RB 0 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.691 mW/g

**Left touch QPSK 1 RB 0 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

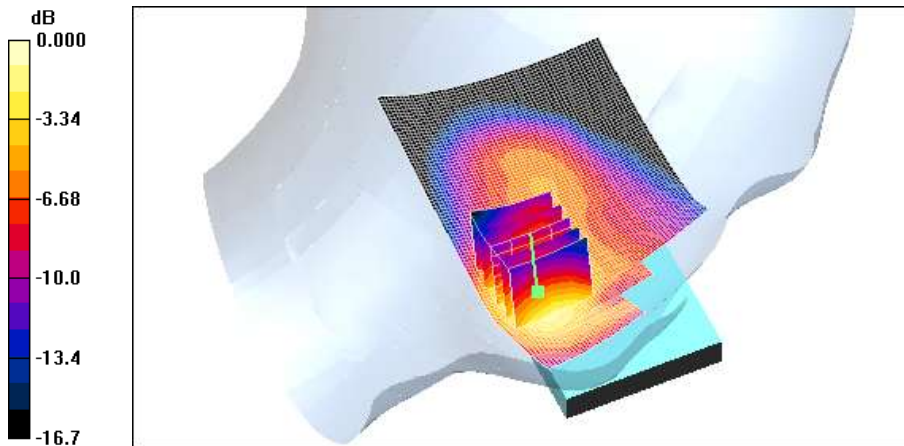
Reference Value = 8.48 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.848 W/kg

**SAR(1 g) = 0.613 mW/g; SAR(10 g) = 0.390 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.671 mW/g



0 dB = 0.671mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 835/900 Phantom ; Type: SAM

**Left touch QPSK 1 RB 49 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.700 mW/g

**Left touch QPSK 1 RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

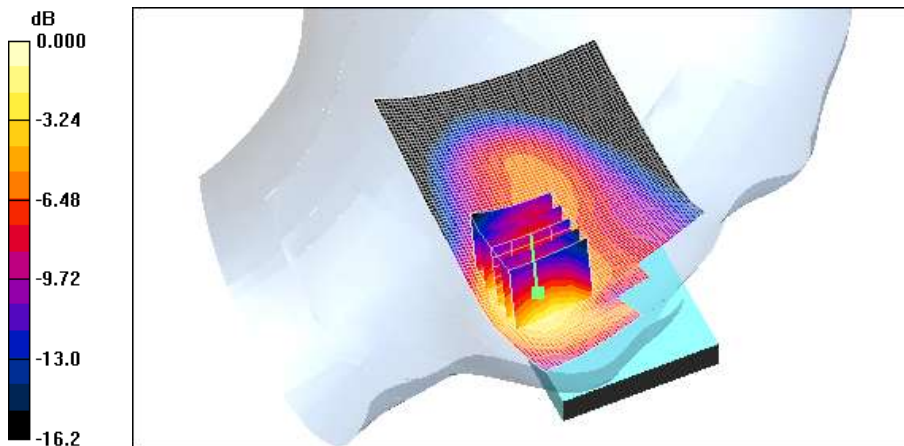
Reference Value = 8.48 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.872 W/kg

**SAR(1 g) = 0.631 mW/g; SAR(10 g) = 0.397 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.693 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch QPSK 25RB 13offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.646 mW/g

**Left touch QPSK 25RB 13offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

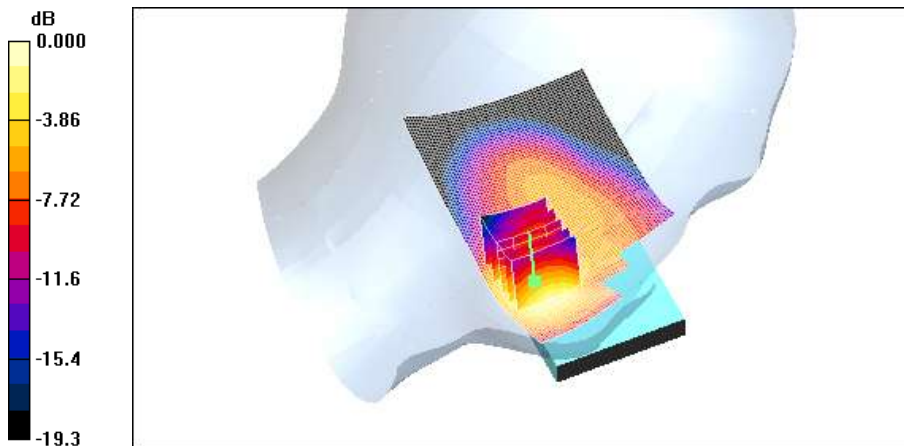
Reference Value = 7.61 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 0.821 W/kg

**SAR(1 g) = 0.580 mW/g; SAR(10 g) = 0.362 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.632 mW/g



0 dB = 0.632mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt QPSK 1RB 0offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.429 mW/g

**Left tilt QPSK 1RB 0offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

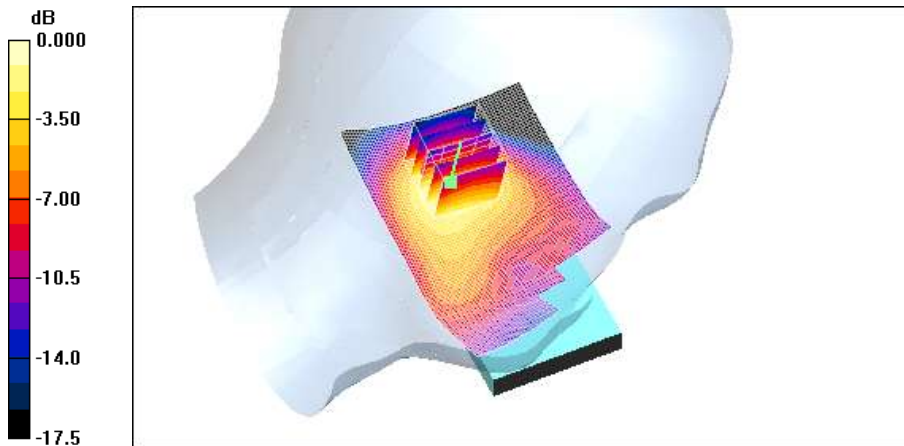
Reference Value = 14.0 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 0.545 W/kg

**SAR(1 g) = 0.373 mW/g; SAR(10 g) = 0.227 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.412 mW/g



0 dB = 0.412mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt QPSK 1RB 49 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.399 mW/g

**Left tilt QPSK 1RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

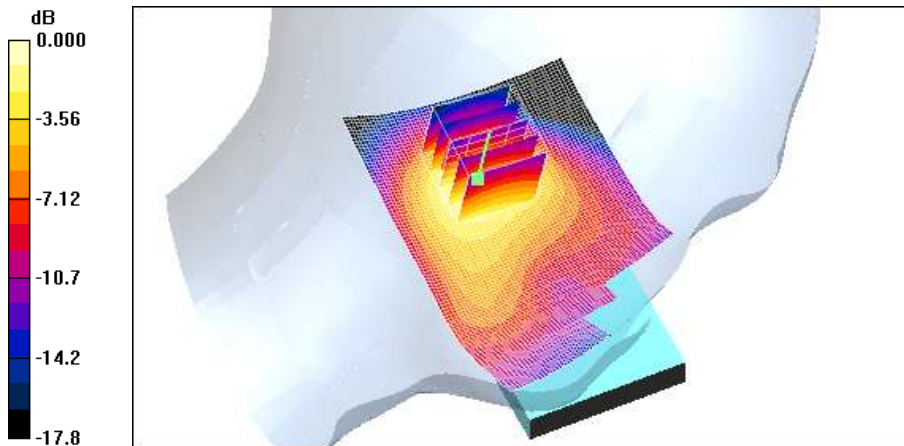
Reference Value = 13.5 V/m; Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.497 W/kg

**SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.206 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.378 mW/g



0 dB = 0.378mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt QPSK 25RB 13offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.330 mW/g

**Left tilt QPSK 25RB 13offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

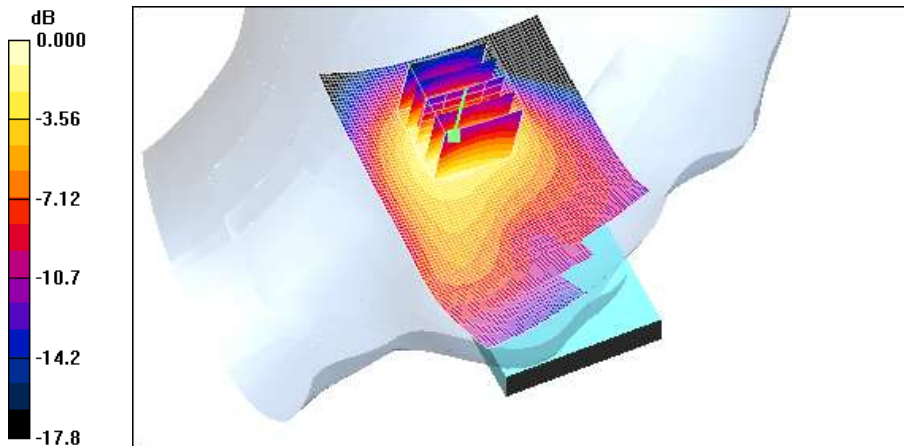
Reference Value = 12.2 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 0.422 W/kg

**SAR(1 g) = 0.286 mW/g; SAR(10 g) = 0.173 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.317 mW/g



0 dB = 0.317mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch QPSK 1RB 0offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.457 mW/g

**Right touch QPSK 1RB 0offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

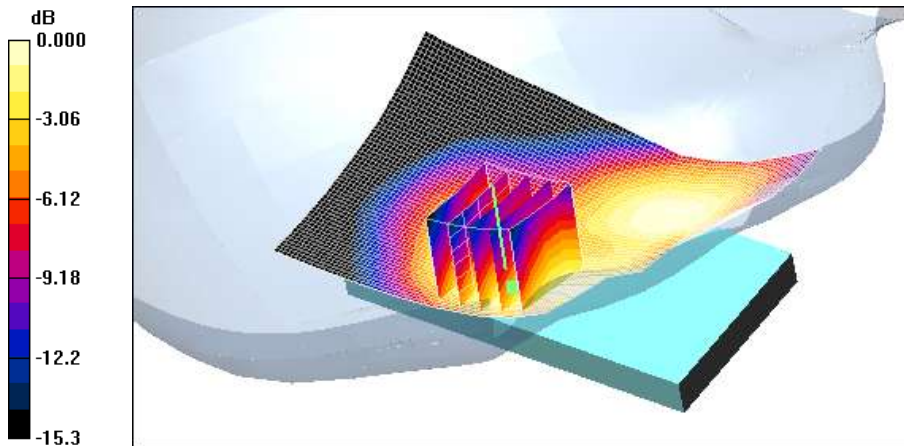
Reference Value = 7.05 V/m; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 0.613 W/kg

**SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.282 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.467 mW/g



0 dB = 0.467mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch QPSK 1RB 49 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.455 mW/g

**Right touch QPSK 1RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

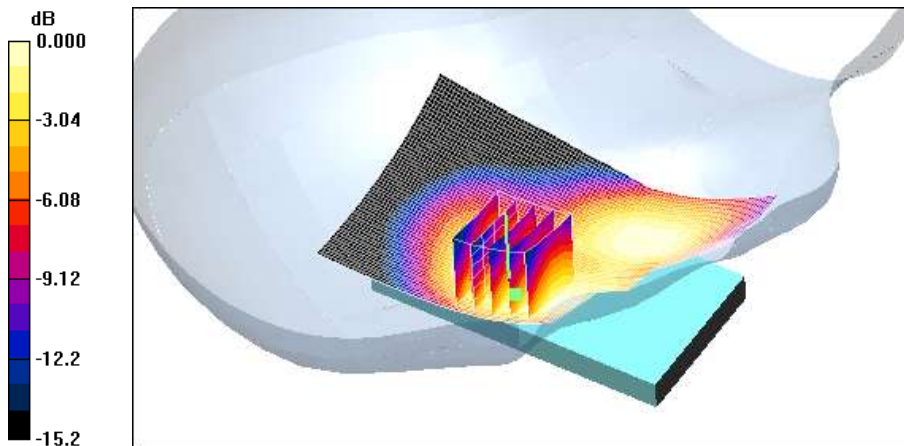
Reference Value = 7.13 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 0.605 W/kg

**SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.282 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.468 mW/g



0 dB = 0.468mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch QPSK 25RB 13 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.346 mW/g

**Right touch QPSK 25RB 13 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

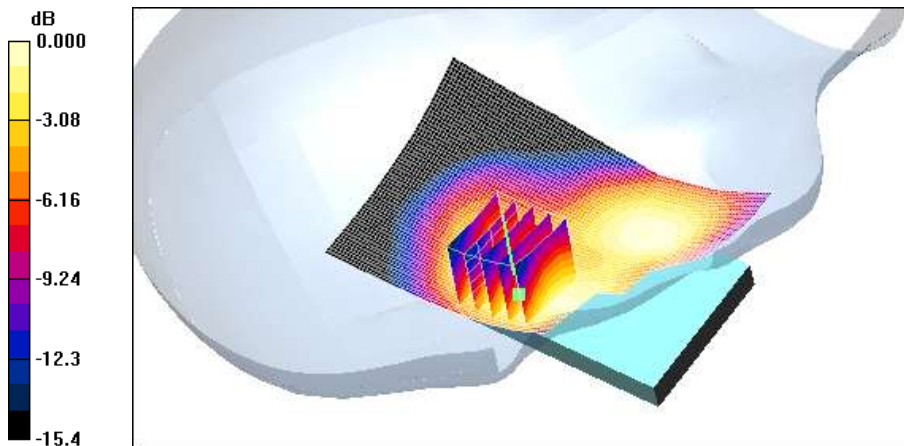
Reference Value = 6.31 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.481 W/kg

**SAR(1 g) = 0.337 mW/g; SAR(10 g) = 0.216 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.361 mW/g



0 dB = 0.361mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt QPSK 1RB 0 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.487 mW/g

**Right tilt QPSK 1RB 0 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

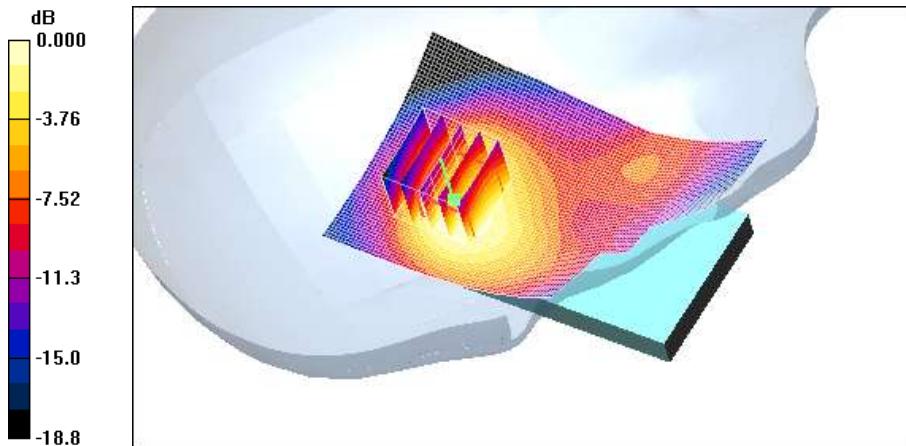
Reference Value = 14.8 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.577 W/kg

**SAR(1 g) = 0.401 mW/g; SAR(10 g) = 0.254 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.429 mW/g



0 dB = 0.429mW/g

Test Laboratory: HCT CO., LTD  
 EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
 Liquid Temperature: 21.3 °C  
 Ambient Temperature: 21.5 °C  
 Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1732.5 \text{ MHz}$ ;  $\sigma = 1.34 \text{ mho/m}$ ;  $\epsilon_r = 40.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt QPSK 1RB 49 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.447 mW/g

**Right tilt QPSK 1RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

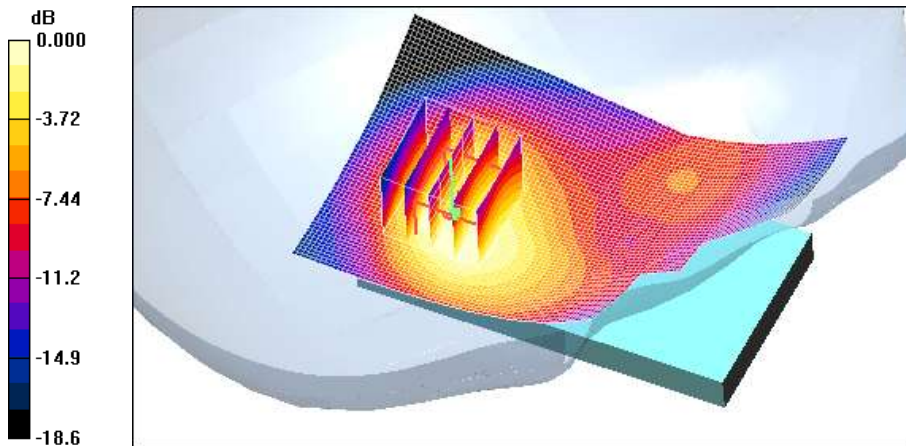
Reference Value = 14.0 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.525 W/kg

**SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.231 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.397 mW/g



0 dB = 0.397mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt QPSK 25RB 13 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.366 mW/g

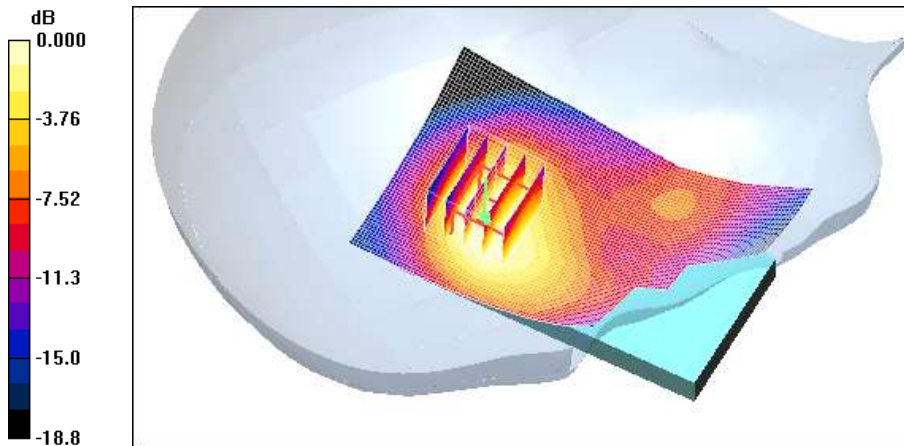
**Right tilt QPSK 25RB 13 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.0 V/m; Power Drift = -0.189 dB

Peak SAR (extrapolated) = 0.439 W/kg

**SAR(1 g) = 0.303 mW/g; SAR(10 g) = 0.191 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.329 mW/g



0 dB = 0.329mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 16QAM 1RB 0 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.616 mW/g

**Left touch 16QAM 1RB 0 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

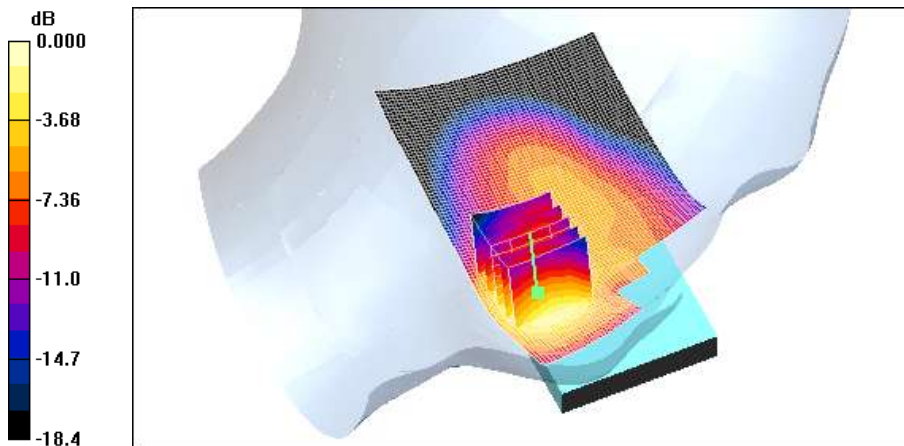
Reference Value = 6.99 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.776 W/kg

**SAR(1 g) = 0.552 mW/g; SAR(10 g) = 0.345 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.608 mW/g



0 dB = 0.608mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 16QAM 1RB 49 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.556 mW/g

**Left touch 16QAM 1RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

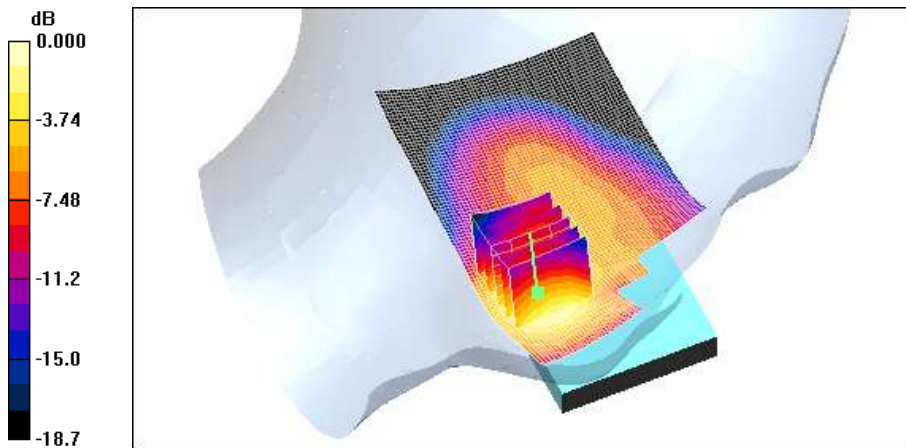
Reference Value = 6.61 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.718 W/kg

**SAR(1 g) = 0.507 mW/g; SAR(10 g) = 0.318 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.556 mW/g



0 dB = 0.556mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 16QAM 25RB 13offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.505 mW/g

**Left touch 16QAM 25RB 13offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

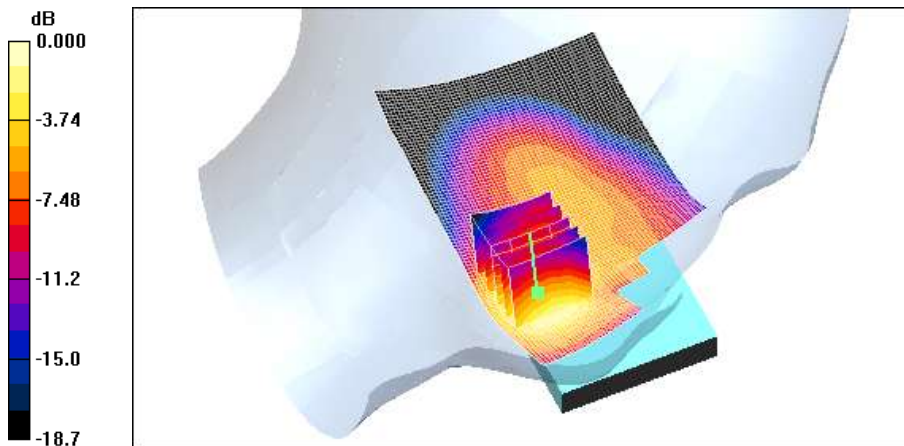
Reference Value = 6.19 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 0.656 W/kg

**SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.284 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.502 mW/g



0 dB = 0.502mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 16QAM 1RB Offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.264 mW/g

**Left tilt 16QAM 1RB Offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

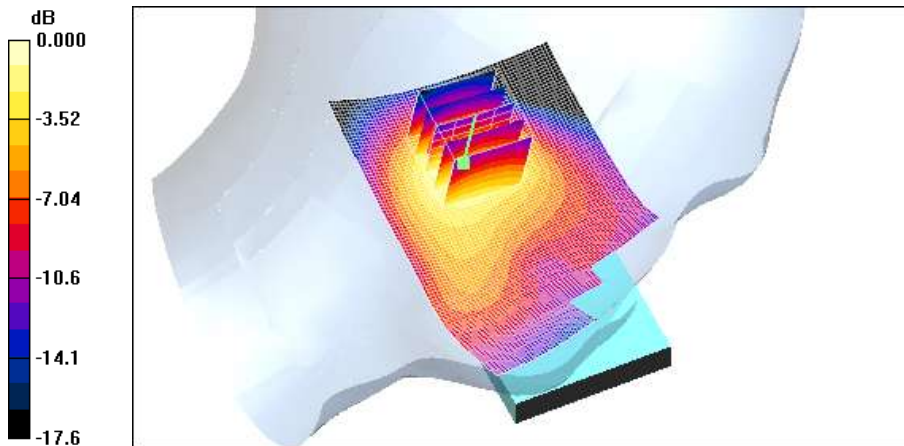
Reference Value = 11.3 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 0.337 W/kg

**SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.137 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.250 mW/g



0 dB = 0.250mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 16QAM 1RB 49offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.292 mW/g

**Left tilt 16QAM 1RB 49offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

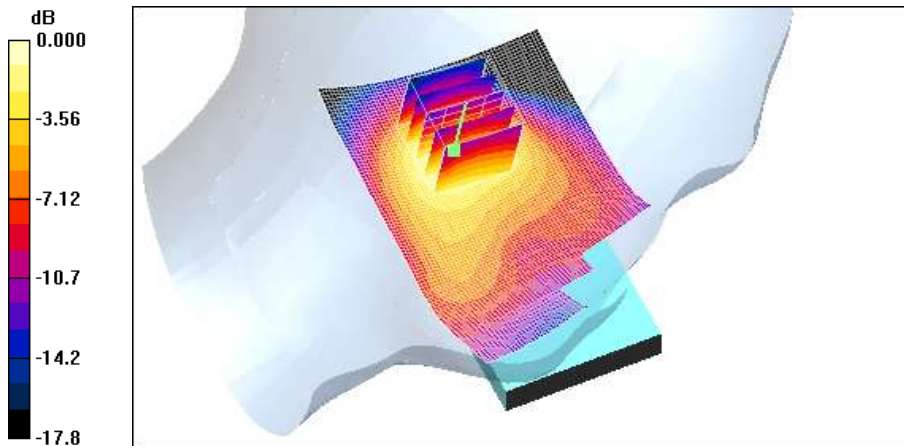
Reference Value = 11.9 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.370 W/kg

**SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.154 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.277 mW/g



0 dB = 0.277mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 16QAM 25RB 13offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.254 mW/g

**Left tilt 16QAM 25RB 13offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

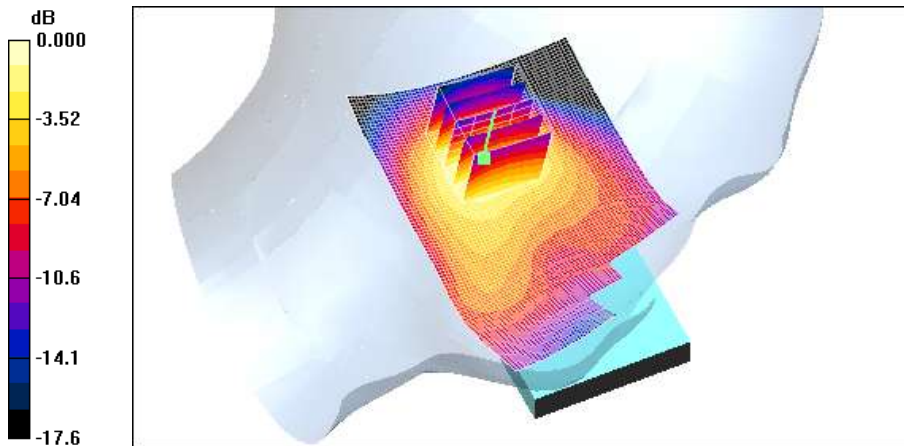
Reference Value = 11.1 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.319 W/kg

**SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.134 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.241 mW/g



0 dB = 0.241mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 16QAM 1RB 0 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.331 mW/g

**Right touch 16QAM 1RB 0 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

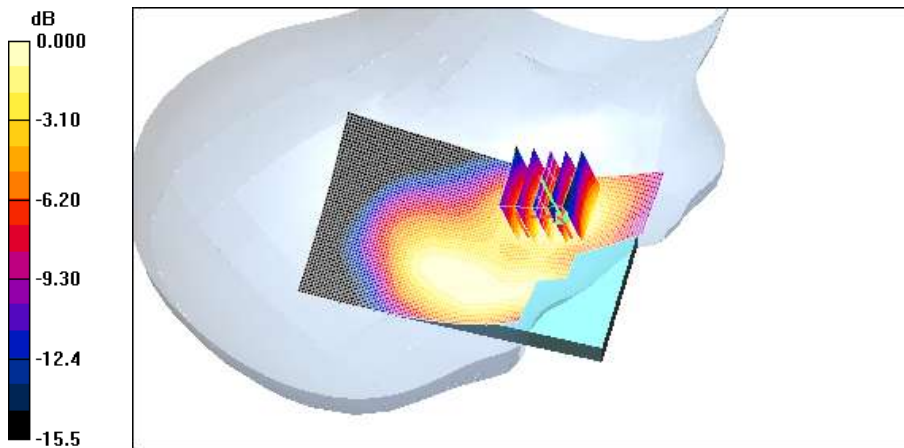
Reference Value = 6.06 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.417 W/kg

**SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.191 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.328 mW/g





Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 16QAM 1RB 49 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.306 mW/g

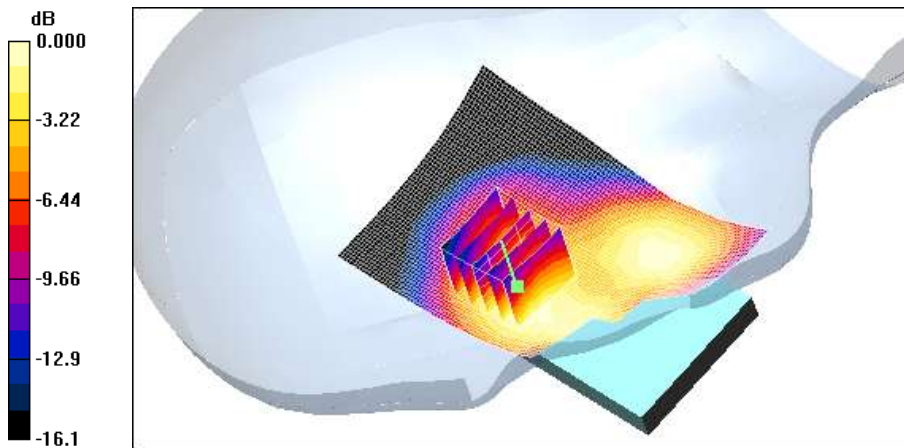
**Right touch 16QAM 1RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.64 V/m; Power Drift = 0.155 dB

Peak SAR (extrapolated) = 0.419 W/kg

**SAR(1 g) = 0.295 mW/g; SAR(10 g) = 0.189 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.329 mW/g



0 dB = 0.329mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 16QAM 25RB 13 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.270 mW/g

**Right touch 16QAM 25RB 13 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

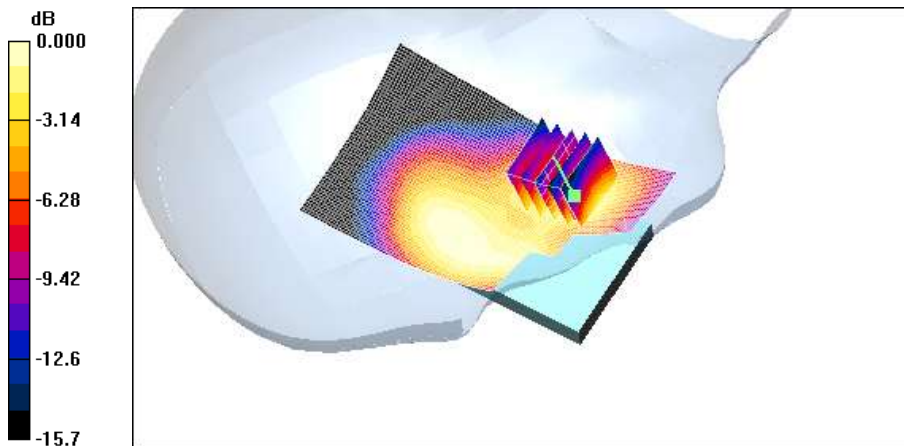
Reference Value = 5.21 V/m; Power Drift = 0.134 dB

Peak SAR (extrapolated) = 0.344 W/kg

**SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.156 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.275 mW/g



0 dB = 0.275mW/g

Test Laboratory: HCT CO., LTD  
 EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
 Liquid Temperature: 21.3 °C  
 Ambient Temperature: 21.5 °C  
 Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1732.5 \text{ MHz}$ ;  $\sigma = 1.34 \text{ mho/m}$ ;  $\epsilon_r = 40.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
 - Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14  
 - Sensor-Surface: 4mm (Mechanical Surface Detection)  
 - Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
 - Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 16QAM 1RB 0 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.357 mW/g

**Right tilt 16QAM 1RB 0 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

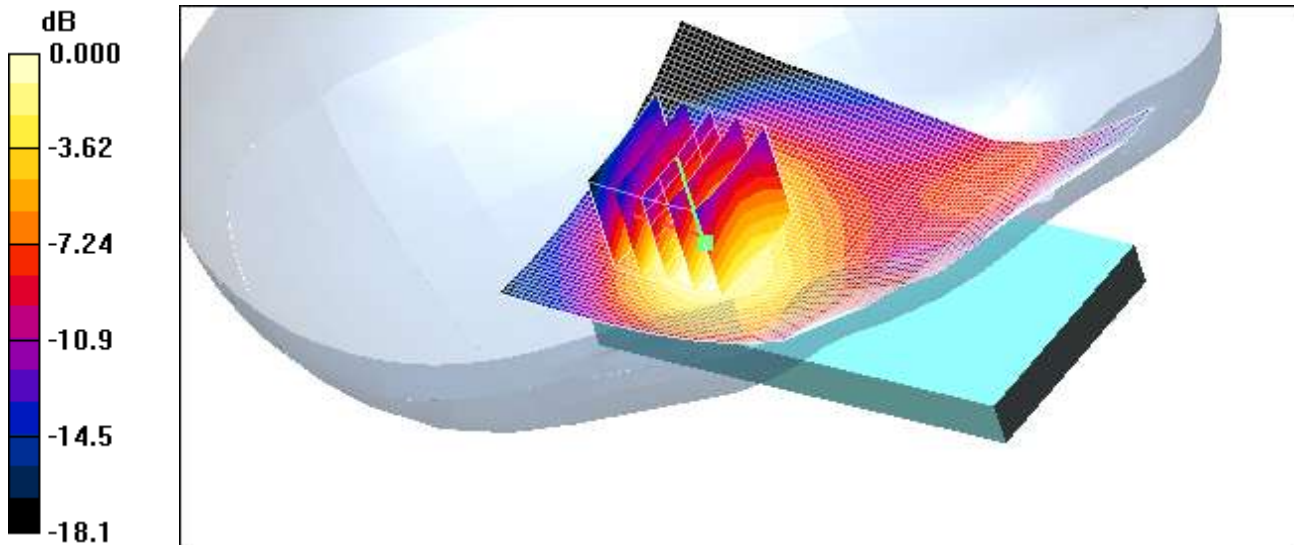
Reference Value = 12.6 V/m; Power Drift = 0.077 dB

Peak SAR (extrapolated) = 0.440 W/kg

**SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.188 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.327 mW/g



0 dB = 0.327mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 16QAM 1RB 49 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.331 mW/g

**Right tilt 16QAM 1RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

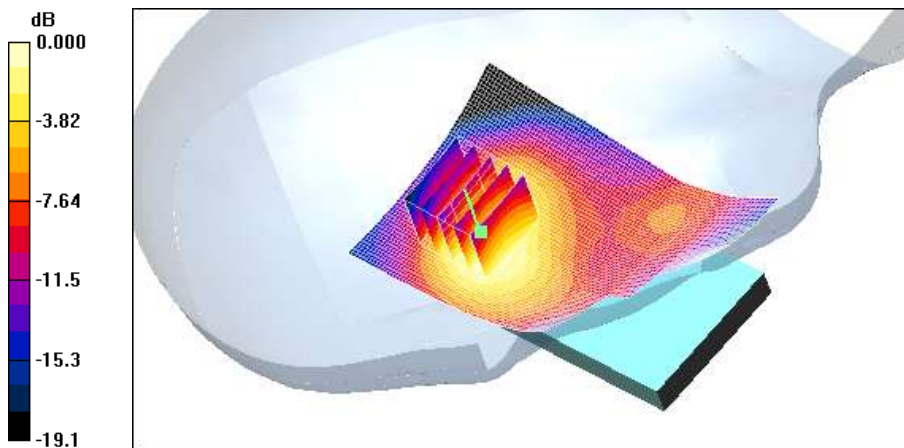
Reference Value = 12.5 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 0.396 W/kg

**SAR(1 g) = 0.270 mW/g; SAR(10 g) = 0.170 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.291 mW/g



0 dB = 0.291mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 16QAM 25RB 13 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.345 mW/g

**Right tilt 16QAM 25RB 13 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

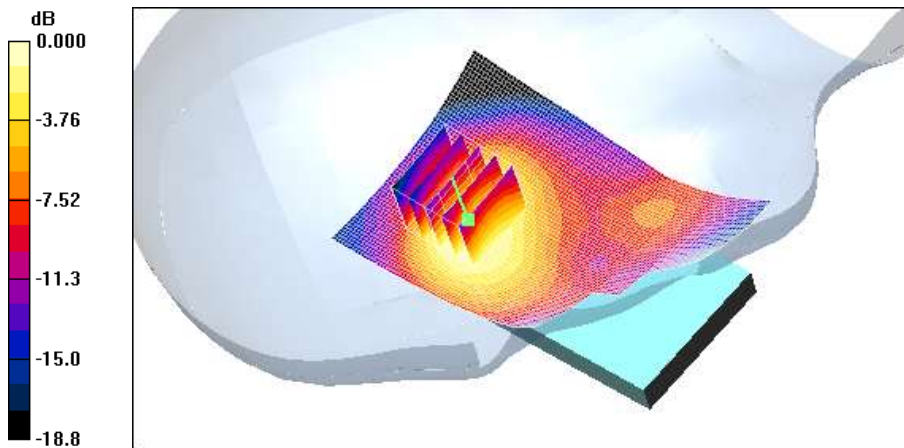
Reference Value = 13.1 V/m; Power Drift = -0.160 dB

Peak SAR (extrapolated) = 0.413 W/kg

**SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.179 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.308 mW/g



0 dB = 0.308mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.15  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 190/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.842 mW/g

**Hotspot Body Rear 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

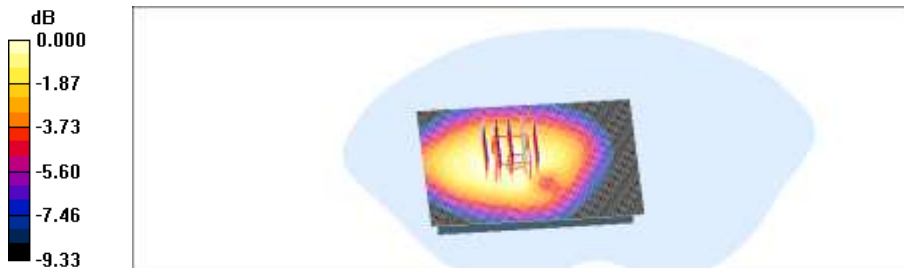
Reference Value = 19.6 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.934 W/kg

**SAR(1 g) = 0.757 mW/g; SAR(10 g) = 0.561 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.811 mW/g



0 dB = 0.811mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.15  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Front 190/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.762 mW/g

**Hotspot Body Front 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

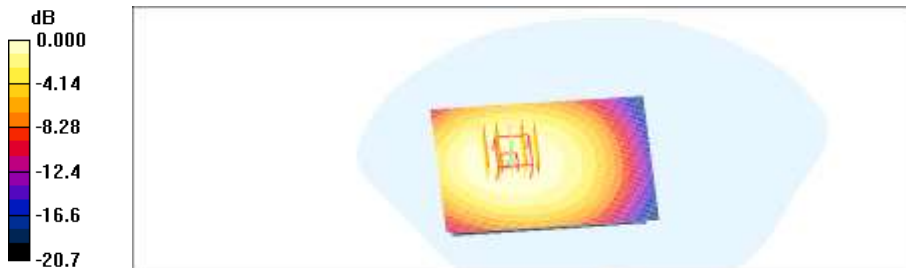
Reference Value = 18.3 V/m; Power Drift = -0.144 dB

Peak SAR (extrapolated) = 0.891 W/kg

**SAR(1 g) = 0.721 mW/g; SAR(10 g) = 0.545 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.757 mW/g



0 dB = 0.757mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.15  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Left 190/Area Scan (41x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.716 mW/g

**Hotspot Body Left 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

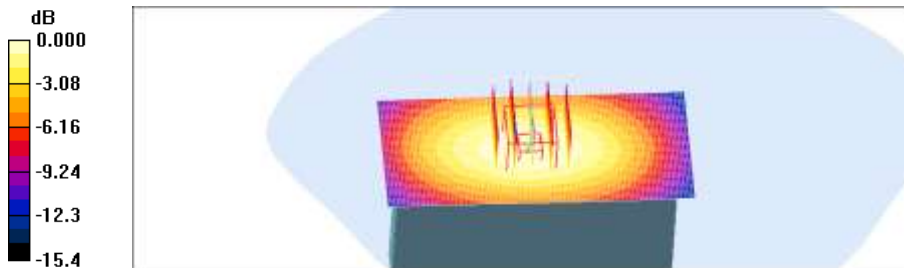
Reference Value = 22.0 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.930 W/kg

**SAR(1 g) = 0.671 mW/g; SAR(10 g) = 0.457 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.725 mW/g



0 dB = 0.725mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.15  
Medium parameters used (interpolated):  $f = 836.6 \text{ MHz}$ ;  $\sigma = 0.952 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Right 190/Area Scan (41x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.665 mW/g

**Hotspot Body Right 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

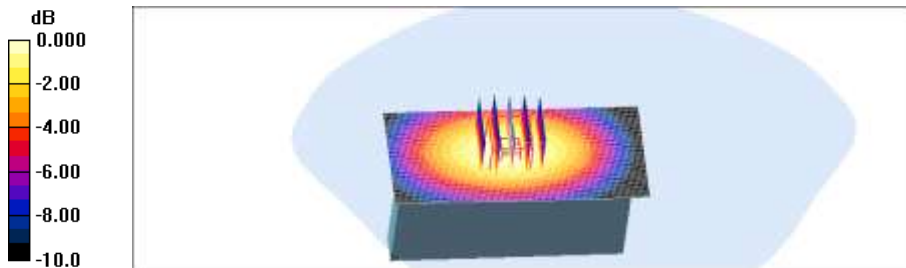
Reference Value = 20.5 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.870 W/kg

**SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.431 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.684 mW/g



0 dB = 0.684mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.15  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Bottom 190/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.076 mW/g

**Hotspot Body Bottom 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.09 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.142 W/kg

**SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.037 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.070 mW/g



0 dB = 0.070mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

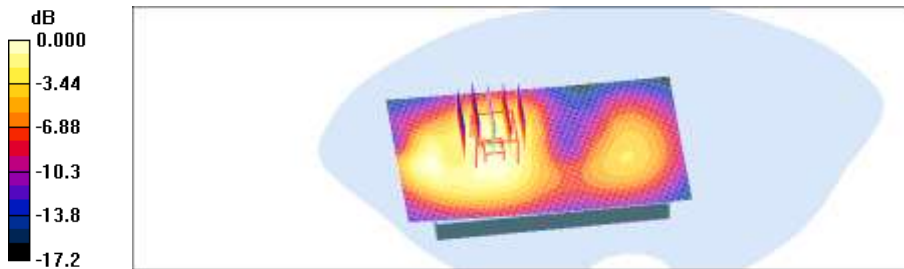
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Rear 661/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.416 mW/g

**Hotspot Body Rear 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 10.1 V/m; Power Drift = 0.017 dB  
Peak SAR (extrapolated) = 0.625 W/kg  
**SAR(1 g) = 0.400 mW/g; SAR(10 g) = 0.247 mW/g**  
Maximum value of SAR (measured) = 0.433 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

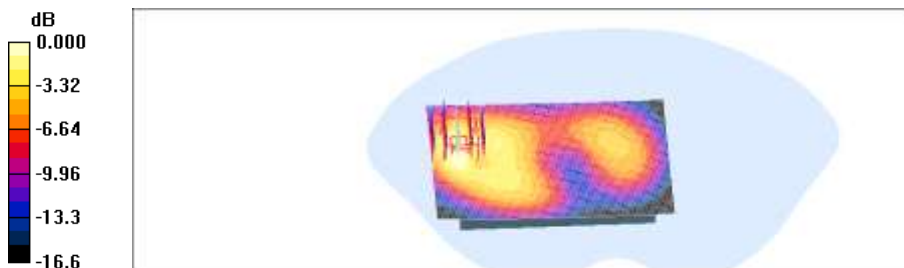
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Front 661/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.609 mW/g

**Hotspot Body Front 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.6 V/m; Power Drift = 0.003 dB  
Peak SAR (extrapolated) = 0.812 W/kg  
**SAR(1 g) = 0.525 mW/g; SAR(10 g) = 0.298 mW/g**  
Maximum value of SAR (measured) = 0.592 mW/g



0 dB = 0.592mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

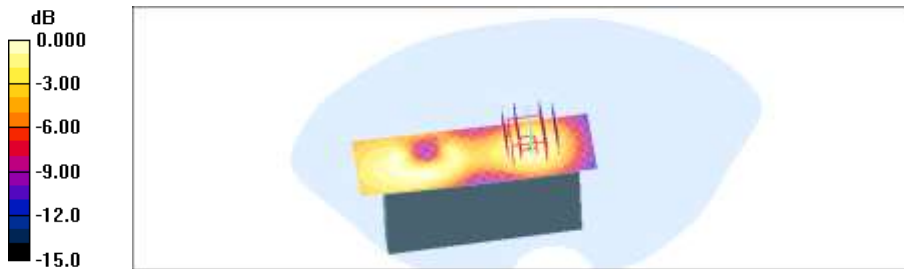
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Left 661/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.212 mW/g

**Hotspot Body Left 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 12.9 V/m; Power Drift = 0.001 dB  
Peak SAR (extrapolated) = 0.309 W/kg  
**SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.113 mW/g**  
Maximum value of SAR (measured) = 0.209 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

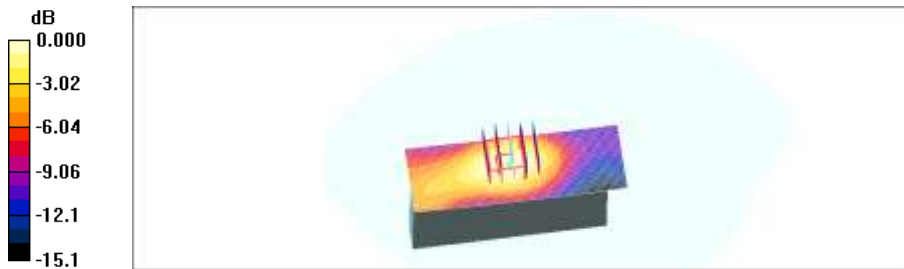
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Right 9400/Area Scan (31x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.134 mW/g

**Hotspot Body Right 9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 5.36 V/m; Power Drift = -0.006 dB  
Peak SAR (extrapolated) = 0.191 W/kg  
**SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.068 mW/g**  
Maximum value of SAR (measured) = 0.126 mW/g



0 dB = 0.126mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.46 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Bottom 661/Area Scan (41x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.872 mW/g

**Hotspot Body Bottom 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 24.4 V/m; Power Drift = 0.185 dB  
Peak SAR (extrapolated) = 1.32 W/kg  
**SAR(1 g) = 0.760 mW/g; SAR(10 g) = 0.392 mW/g**  
Maximum value of SAR (measured) = 0.877 mW/g



0 dB = 0.877mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 4183/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.761 mW/g

**Hotspot Body Rear 4183/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

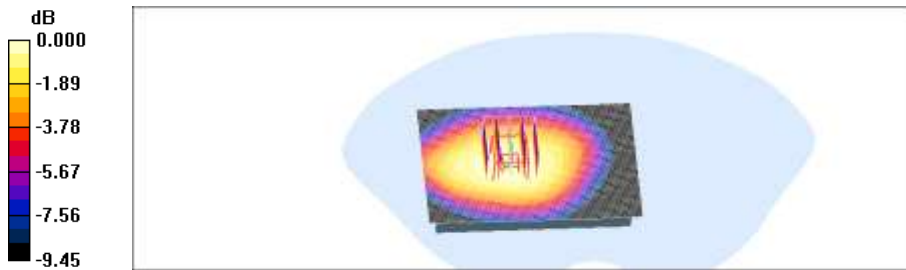
Reference Value = 19.0 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.880 W/kg

**SAR(1 g) = 0.727 mW/g; SAR(10 g) = 0.539 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.773 mW/g



0 dB = 0.773mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Front 4183/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.694 mW/g

**Hotspot Body Front 4183/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

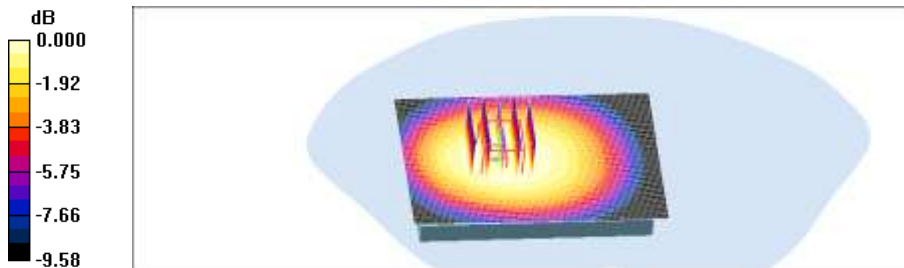
Reference Value = 20.2 V/m; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 0.772 W/kg

**SAR(1 g) = 0.640 mW/g; SAR(10 g) = 0.483 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.674 mW/g



0 dB = 0.674mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA850; Frequency: 836.6 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Left 4183/Area Scan (41x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.556 mW/g

**Hotspot Body Left 4183/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

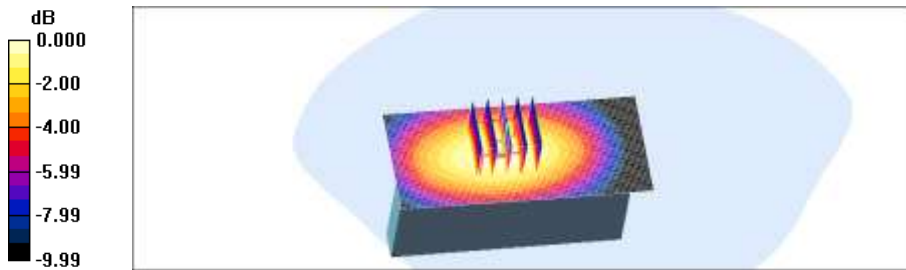
Reference Value = 17.0 V/m; Power Drift = -0.068 dB

Peak SAR (extrapolated) = 0.716 W/kg

**SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.350 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.559 mW/g



0 dB = 0.559mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Right 4183/Area Scan (41x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.508 mW/g

**Hotspot Body Right 4183/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

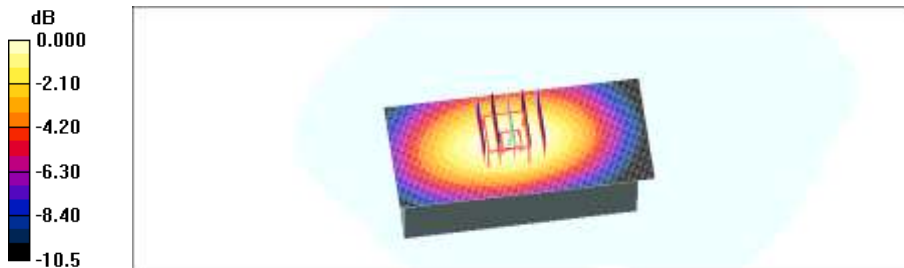
Reference Value = 17.6 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.624 W/kg

**SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.287 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.480 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Bottom 4183/Area Scan (31x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.148 mW/g

**Hotspot Body Bottom 4183/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

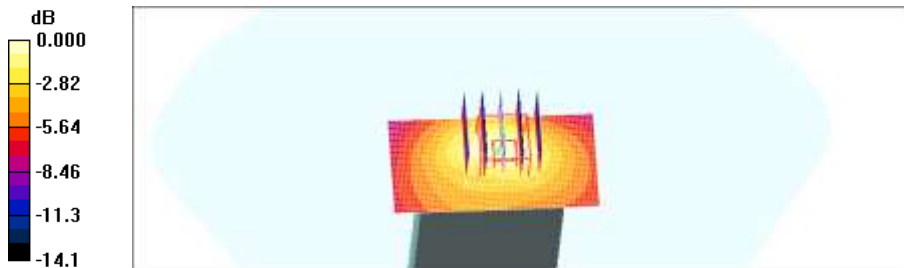
Reference Value = 12.3 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 0.341 W/kg

**SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.074 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.148 mW/g



0 dB = 0.148mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 55.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Rear 9262/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.954 mW/g

**Hotspot Body Rear 9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.5 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 1.35 W/kg

**SAR(1 g) = 0.897 mW/g; SAR(10 g) = 0.569 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.962 mW/g

**Hotspot Body Rear 9262/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

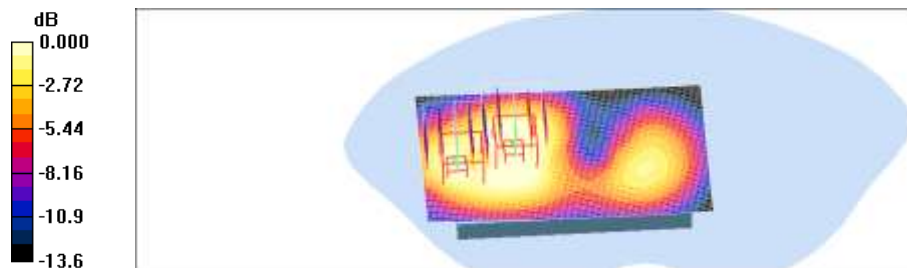
Reference Value = 16.5 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 0.988 W/kg

**SAR(1 g) = 0.651 mW/g; SAR(10 g) = 0.414 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.727 mW/g



0 dB = 0.727mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

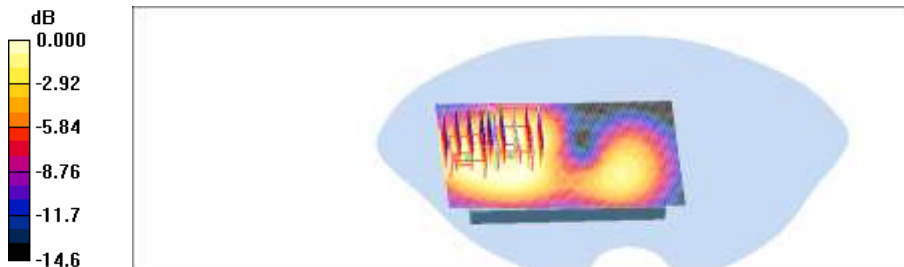
**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Rear 9400/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.899 mW/g

**Hotspot Body Rear 9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 15.7 V/m; Power Drift = 0.004 dB  
Peak SAR (extrapolated) = 1.38 W/kg  
**SAR(1 g) = 0.880 mW/g; SAR(10 g) = 0.546 mW/g**  
Maximum value of SAR (measured) = 0.945 mW/g

**Hotspot Body Rear 9400/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 15.7 V/m; Power Drift = 0.004 dB  
Peak SAR (extrapolated) = 1.06 W/kg  
**SAR(1 g) = 0.674 mW/g; SAR(10 g) = 0.410 mW/g**  
Maximum value of SAR (measured) = 0.720 mW/g



0 dB = 0.720mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Rear 9538/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.829 mW/g

**Hotspot Body Rear 9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = -0.157 dB

Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.720 mW/g; SAR(10 g) = 0.436 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.784 mW/g

**Hotspot Body Rear 9538/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

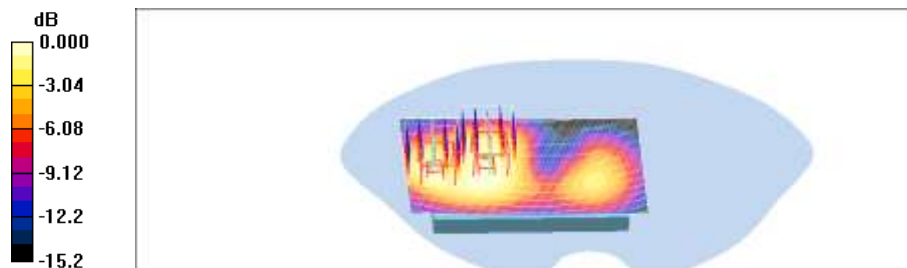
Reference Value = 14.4 V/m; Power Drift = -0.157 dB

Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.768 mW/g; SAR(10 g) = 0.484 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.822 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.43 \text{ mho/m}$ ;  $\epsilon_r = 55.3$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Front 9262/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.990 mW/g

**Hotspot Body Front 9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

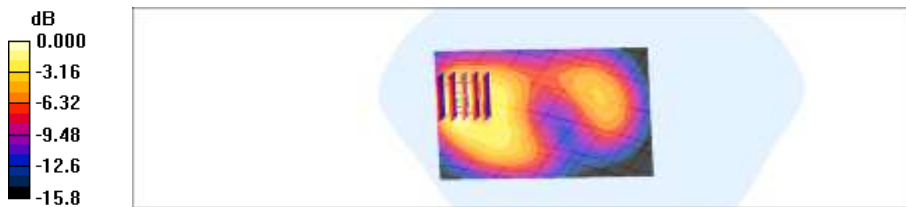
Reference Value = 15.1 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 1.35 W/kg

**SAR(1 g) = 0.869 mW/g; SAR(10 g) = 0.499 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.00 mW/g



0 dB = 1.00mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

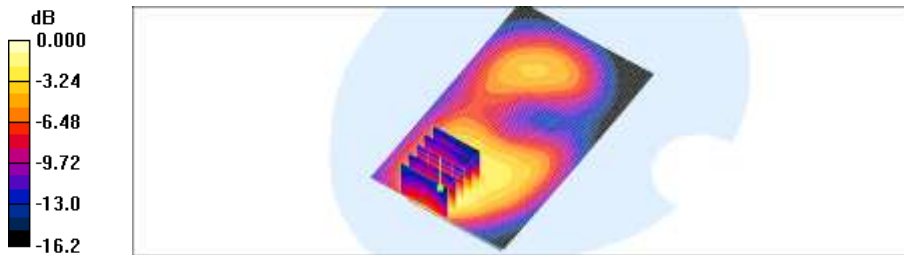
Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8  
Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Front 9400/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.17 mW/g

**Hotspot Body Front 9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 15.8 V/m; Power Drift = 0.088 dB  
Peak SAR (extrapolated) = 1.62 W/kg  
**SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.580 mW/g**  
Maximum value of SAR (measured) = 1.18 mW/g



0 dB = 1.18mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6 \text{ MHz}$ ;  $\sigma = 1.49 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Front 9538/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.28 mW/g

**Hotspot Body Front 9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.8 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 1.78 W/kg

**SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.630 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.27 mW/g



0 dB = 1.27mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

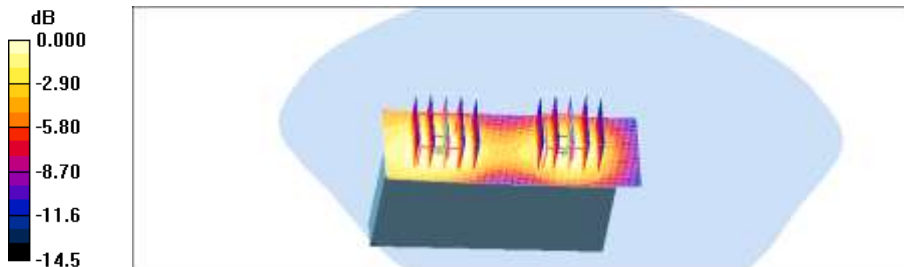
**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Left 9400/Area Scan (31x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.588 mW/g

**Hotspot Body Left 9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 20.8 V/m; Power Drift = -0.085 dB  
Peak SAR (extrapolated) = 0.869 W/kg  
**SAR(1 g) = 0.552 mW/g; SAR(10 g) = 0.335 mW/g**  
Maximum value of SAR (measured) = 0.604 mW/g

**Hotspot Body Left 9400/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 20.8 V/m; Power Drift = -0.085 dB  
Peak SAR (extrapolated) = 0.784 W/kg  
**SAR(1 g) = 0.495 mW/g; SAR(10 g) = 0.295 mW/g**  
Maximum value of SAR (measured) = 0.542 mW/g



0 dB = 0.542mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

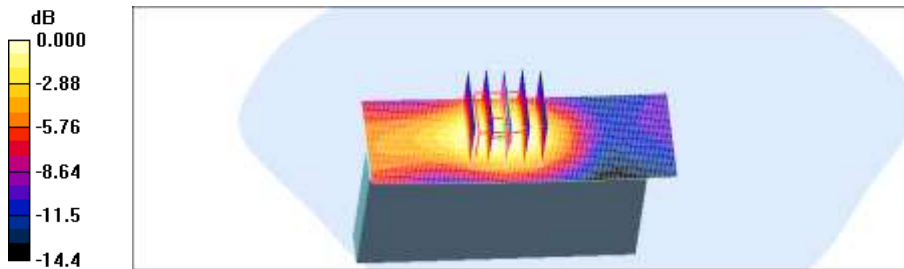
Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Right side 9400/Area Scan (31x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.327 mW/g

**Hotspot Body Right side 9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.08 V/m; Power Drift = 0.025 dB  
Peak SAR (extrapolated) = 0.449 W/kg  
**SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.168 mW/g**  
Maximum value of SAR (measured) = 0.308 mW/g





Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 55.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Bottom 9262/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.10 mW/g

**Hotspot Body Bottom 9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

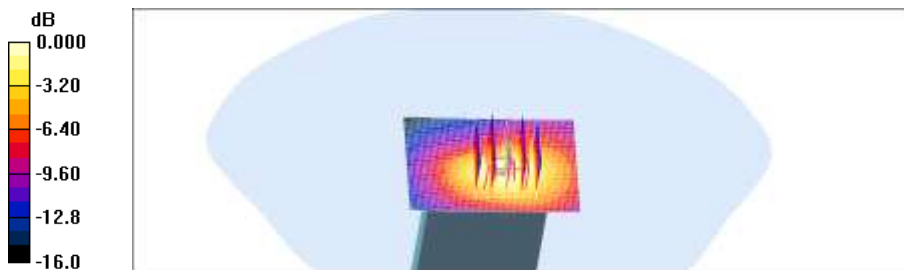
Reference Value = 26.5 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 1.50 W/kg

**SAR(1 g) = 0.952 mW/g; SAR(10 g) = 0.545 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.07 mW/g



0 dB = 1.07mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

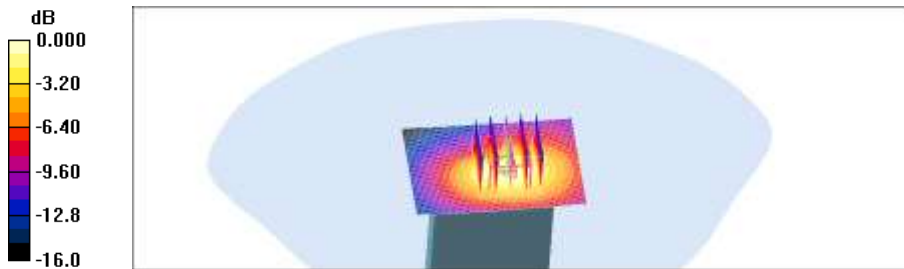
Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Bottom 9400/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.27 mW/g

**Hotspot Body Bottom 9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 28.0 V/m; Power Drift = 0.118 dB  
Peak SAR (extrapolated) = 1.77 W/kg  
**SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.619 mW/g**  
Maximum value of SAR (measured) = 1.23 mW/g



0 dB = 1.23mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6 \text{ MHz}$ ;  $\sigma = 1.49 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Bottom 9538/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.38 mW/g

**Hotspot Body Bottom 9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

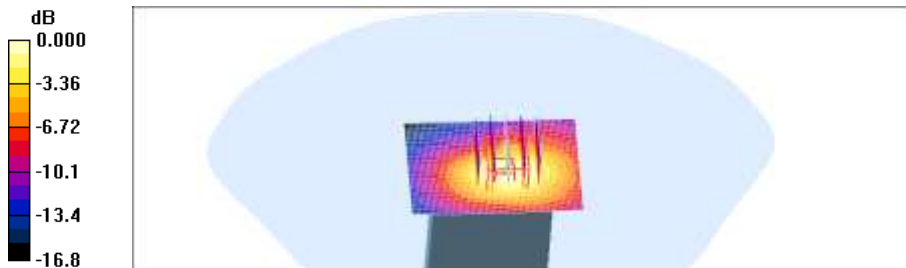
Reference Value = 29.0 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 1.94 W/kg

**SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.662 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.32 mW/g



0 dB = 1.32mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.28, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: 2450MHz FCC; Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.21, 4.21, 4.21); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 6ch/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.342 mW/g

**Hotspot Body Rear 6ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

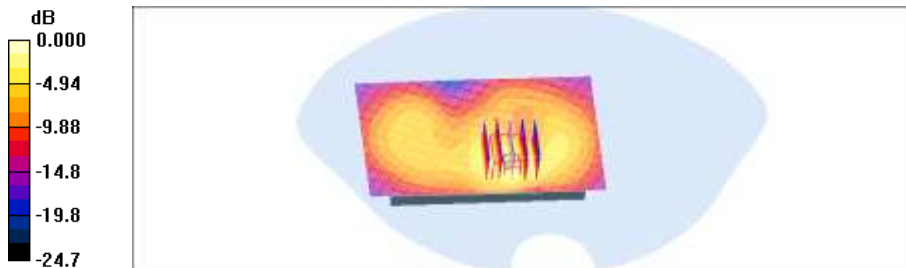
Reference Value = 5.60 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.938 W/kg

**SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.164 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.373 mW/g



0 dB = 0.373mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.28, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: 2450MHz FCC; Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.21, 4.21, 4.21); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Front 6ch/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.091 mW/g

**Hotspot Body Front 6ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

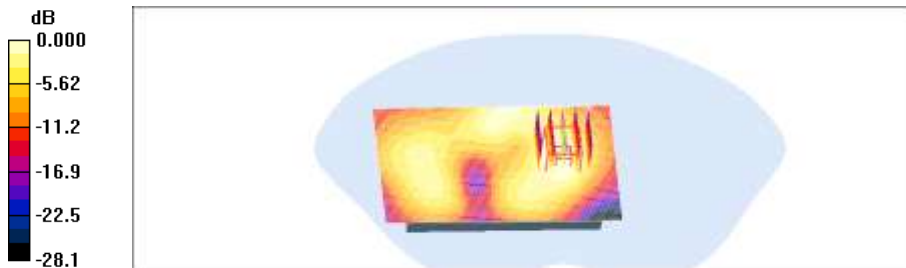
Reference Value = 6.40 V/m; Power Drift = 0.116 dB

Peak SAR (extrapolated) = 0.188 W/kg

**SAR(1 g) = 0.079 mW/g; SAR(10 g) = 0.041 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.081 mW/g



0 dB = 0.081mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.28, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: 2450MHz FCC; Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.21, 4.21, 4.21); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Left 6/Area Scan (31x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.215 mW/g

**Hotspot Body Left 6/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

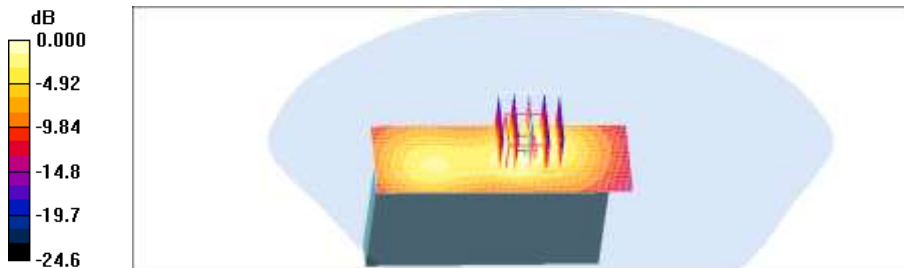
Reference Value = 7.68 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.498 W/kg

**SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.099 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.224 mW/g



0 dB = 0.224mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.28, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: 2450MHz FCC; Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.21, 4.21, 4.21); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Top 6/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.094 mW/g

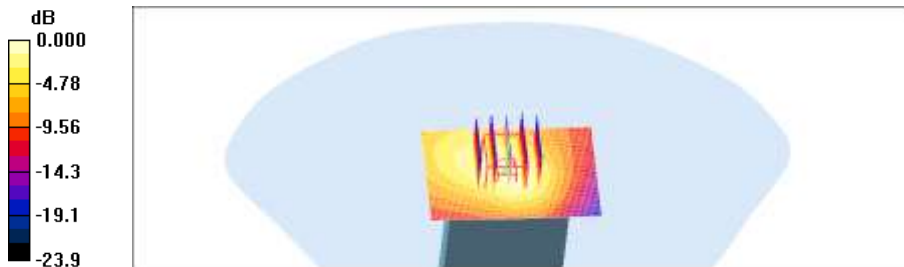
**Hotspot Body Top 6/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.01 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 0.198 W/kg

**SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.044 mW/g**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.091 mW/g



0 dB = 0.091mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 1RB 0 offset QPSK 23790/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.618 mW/g

**Hotspot Body Rear 1RB 0 offset QPSK 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.6 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.899 W/kg

**SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.433 mW/g**

Maximum value of SAR (measured) = 0.631 mW/g

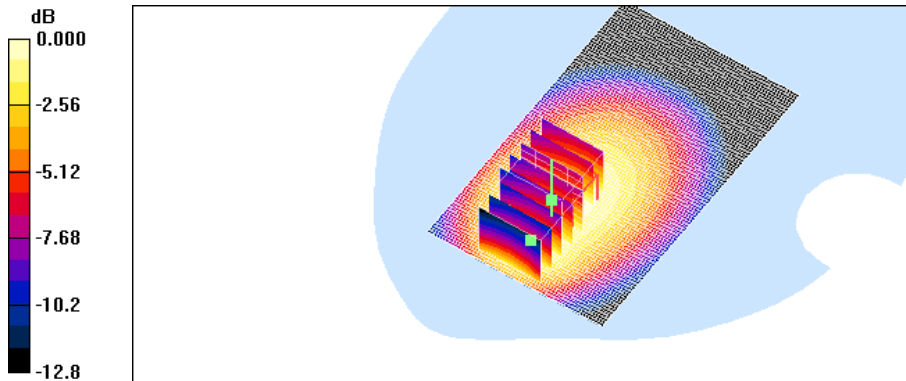
**Hotspot Body Rear 1RB 0 offset QPSK 23790/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.6 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.990 W/kg

SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.399 mW/g

Maximum value of SAR (measured) = 0.635 mW/g



0 dB = 0.635mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 1 RB 49 offset QPSK 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.542 mW/g

**Hotspot Body Rear 1 RB 49 offset QPSK 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.3 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 0.758 W/kg

**SAR(1 g) = 0.516 mW/g; SAR(10 g) = 0.368 mW/g**

Maximum value of SAR (measured) = 0.538 mW/g

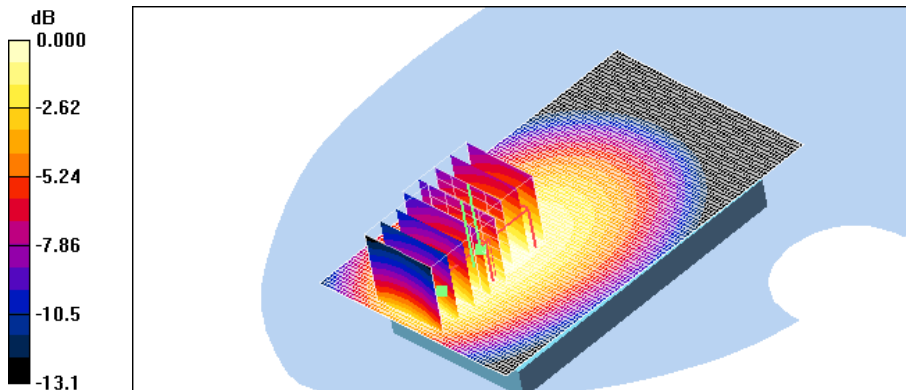
**Hotspot Body Rear 1 RB 49 offset QPSK 23790/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.3 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 0.819 W/kg

**SAR(1 g) = 0.479 mW/g; SAR(10 g) = 0.329 mW/g**

Maximum value of SAR (measured) = 0.535 mW/g



0 dB = 0.535mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 25 RB 13 offset QPSK R23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.437 mW/g

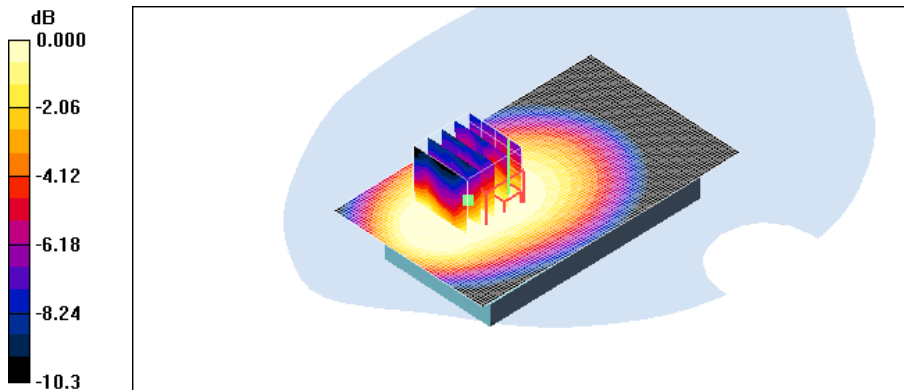
**Hotspot Body Rear 25 RB 13 offset QPSK R23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 0.554 W/kg

**SAR(1 g) = 0.303 mW/g; SAR(10 g) = 0.199 mW/g.**

Maximum value of SAR (measured) = 0.329 mW/g



0 dB = 0.329mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Front 1 RB 0 offset QPSK 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.521 mW/g

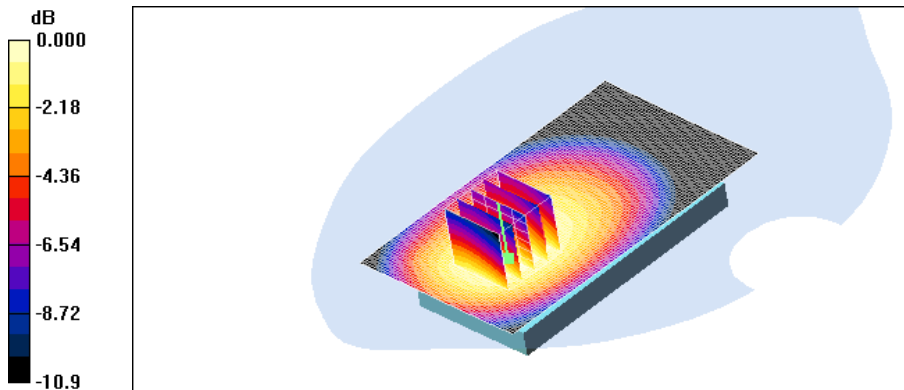
**Hotspot Body Front 1 RB 0 offset QPSK 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 0.727 W/kg

**SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.366 mW/g**

Maximum value of SAR (measured) = 0.524 mW/g



0 dB = 0.524mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Front 1 RB 49 offset QPSK 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

**Hotspot Body Front 1 RB 49 offset QPSK 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

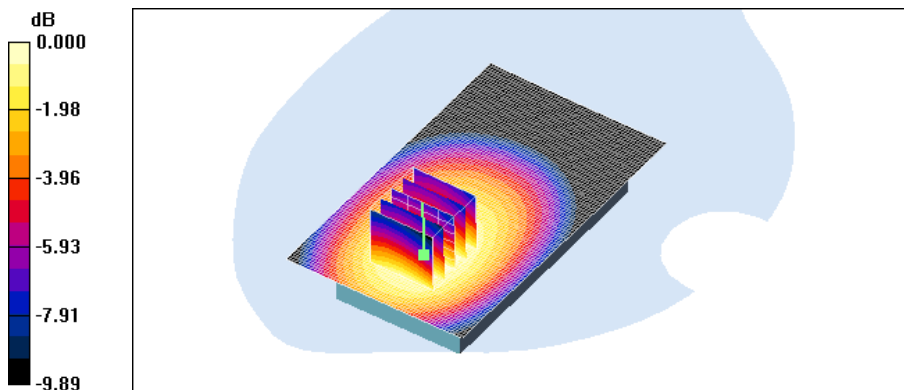
Reference Value = 9.01 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 0.600 W/kg

**SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.301 mW/g**

Maximum value of SAR (interpolated) = 0.431 mW/g

Maximum value of SAR (measured) = 0.431 mW/g



0 dB = 0.431mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

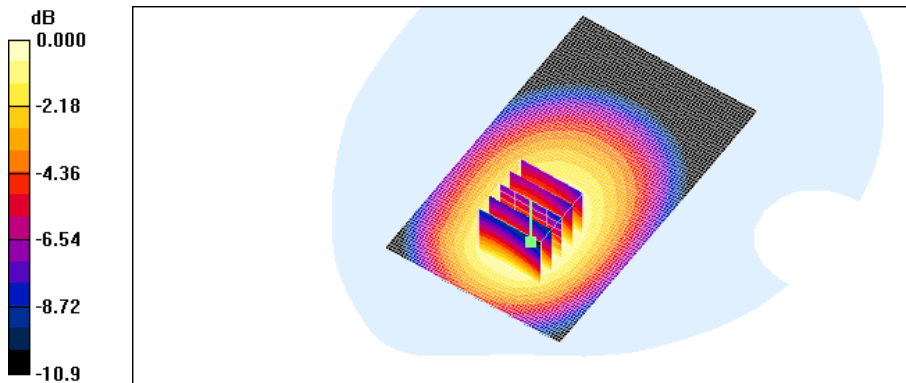
**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Front 25 RB 13 offset QPSK 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.351 mW/g

**Hotspot Body Front 25 RB 13 offset QPSK 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 9.52 V/m; Power Drift = -0.095 dB  
Peak SAR (extrapolated) = 0.489 W/kg  
**SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.244 mW/g**  
Maximum value of SAR (measured) = 0.351 mW/g



0 dB = 0.351mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Left 1RB 0 offset QPSK 23790/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.238 mW/g

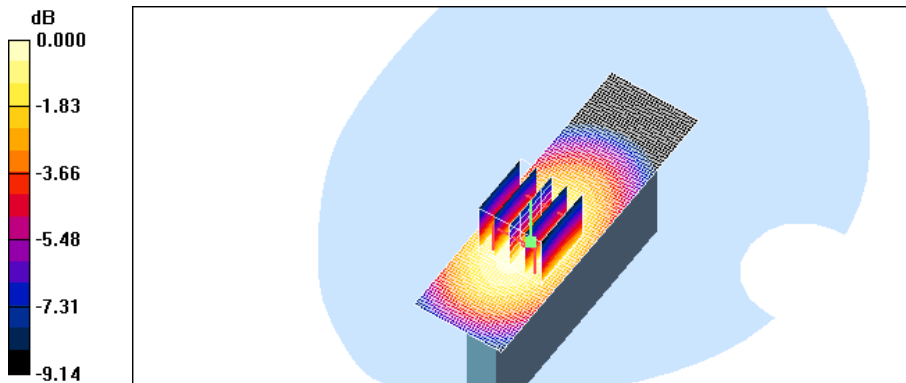
**Hotspot Body Left 1RB 0 offset QPSK 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.46 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 0.363 W/kg

**SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.159 mW/g**

Maximum value of SAR (measured) = 0.244 mW/g



0 dB = 0.244mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Left 1 RB 49 offset QPSK 23790/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.190 mW/g

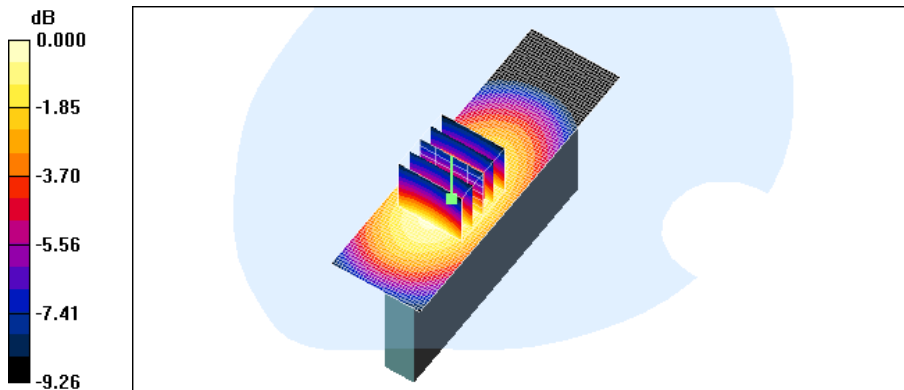
**Hotspot Body Left 1 RB 49 offset QPSK 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.47 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 0.289 W/kg

**SAR(1 g) = 0.186 mW/g; SAR(10 g) = 0.127 mW/g**

Maximum value of SAR (measured) = 0.196 mW/g



0 dB = 0.196mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Left 25 RB 13 offset QPSK 23790/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.179 mW/g

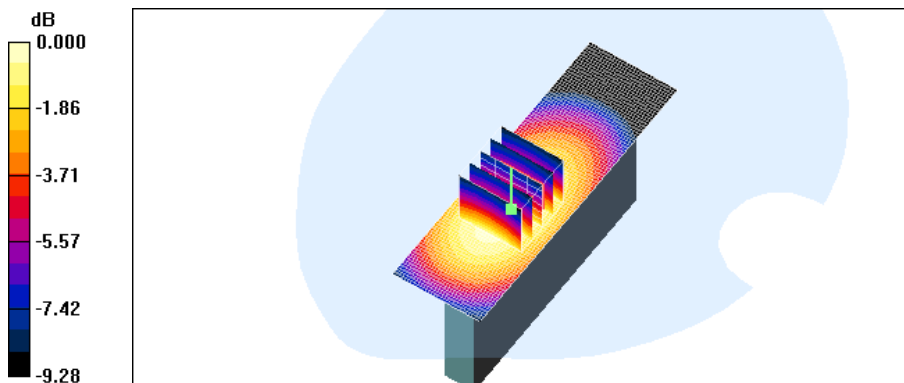
**Hotspot Body Left 25 RB 13 offset QPSK 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.21 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 0.268 W/kg

**SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.118 mW/g**

Maximum value of SAR (measured) = 0.181 mW/g



0 dB = 0.181mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Right side QPSK 1 RB 0 offset 23790/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.330 mW/g

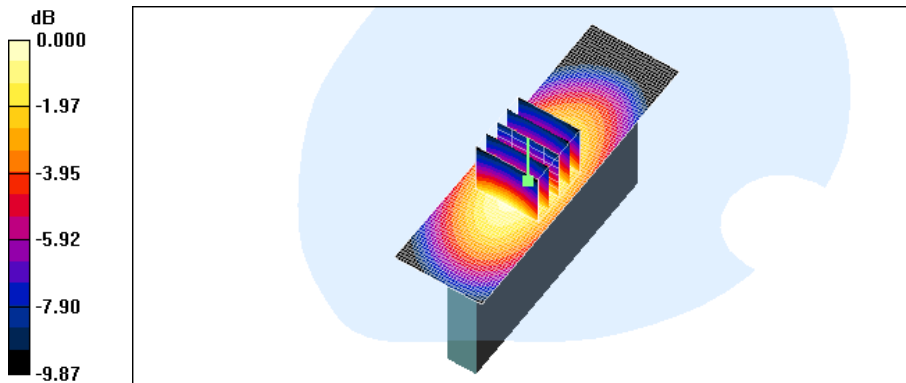
**Hotspot Right side QPSK 1 RB 0 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = -0.081 dB

Peak SAR (extrapolated) = 0.516 W/kg

**SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.209 mW/g**

Maximum value of SAR (measured) = 0.337 mW/g



0 dB = 0.337mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Right side QPSK 1 RB 49 offset 23790/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.389 mW/g

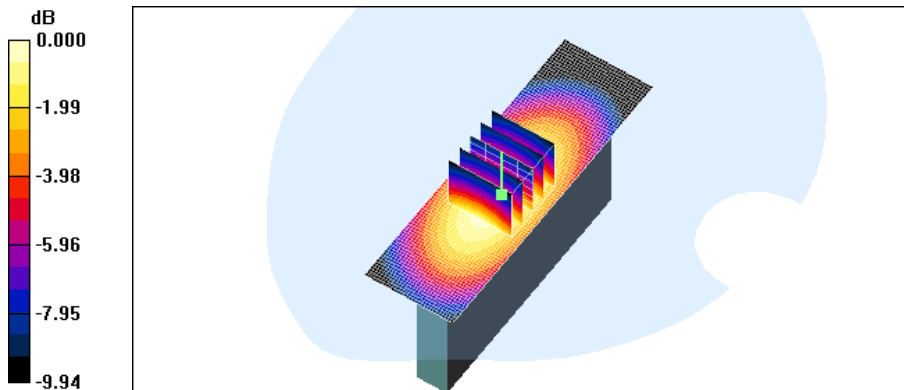
**Hotspot Right side QPSK 1 RB 49 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.2 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 0.611 W/kg

**SAR(1 g) = 0.375 mW/g; SAR(10 g) = 0.247 mW/g**

Maximum value of SAR (measured) = 0.398 mW/g



0 dB = 0.398mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Right side QPSK 25RB 13offset 23790/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.303 mW/g

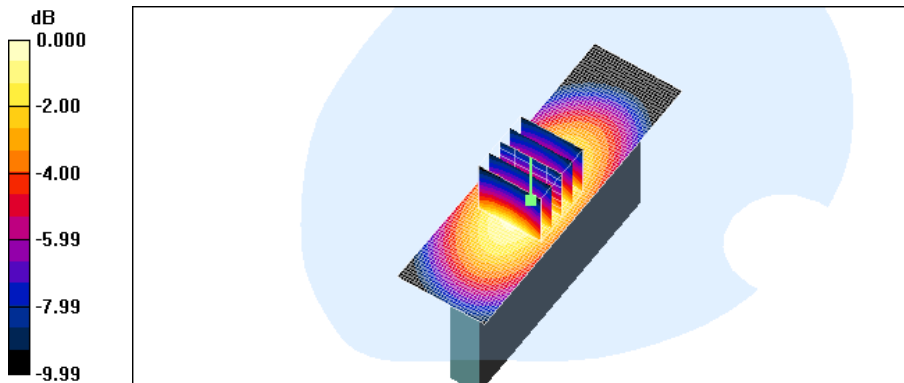
**Hotspot Right side QPSK 25RB 13offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.4 V/m; Power Drift = 0.039 dB

Peak SAR (extrapolated) = 0.471 W/kg

**SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.192 mW/g**

Maximum value of SAR (measured) = 0.309 mW/g



0 dB = 0.309mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Body Bottom QPSK 1 RB 0 offset 23790/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.197 mW/g

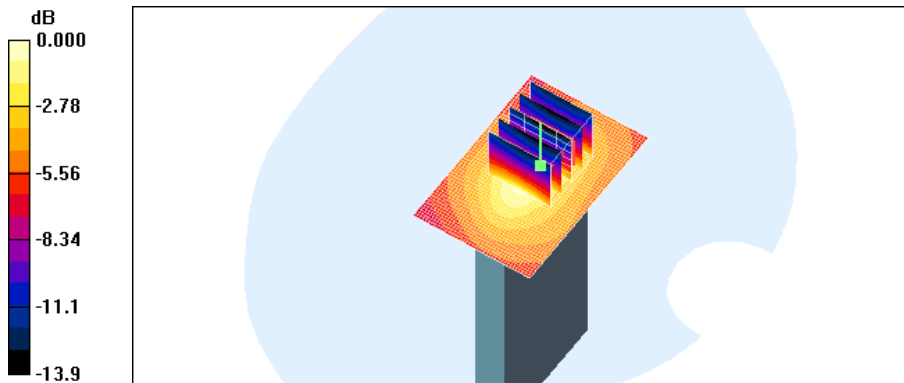
**Hotspot Body Bottom QPSK 1 RB 0 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.3 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 0.618 W/kg

**SAR(1 g) = 0.198 mW/g; SAR(10 g) = 0.100 mW/g**

Maximum value of SAR (measured) = 0.191 mW/g



0 dB = 0.191mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Body Bottom QPSK 1 RB 49 offset 23790/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.171 mW/g

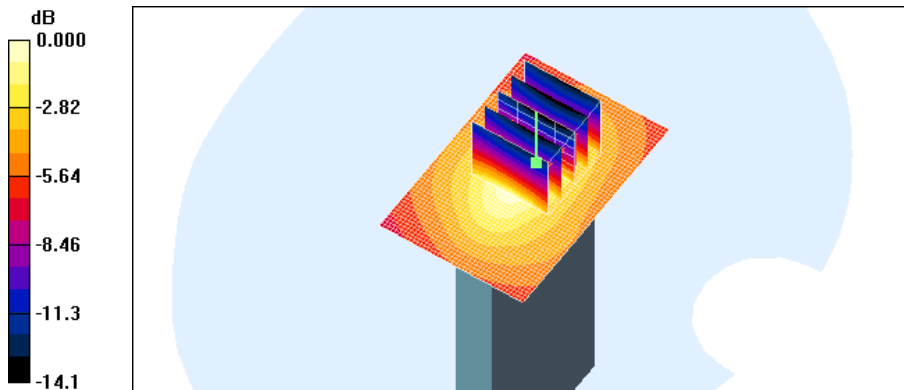
**Hotspot Body Bottom QPSK 1 RB 49 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 0.525 W/kg

**SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.086 mW/g**

Maximum value of SAR (measured) = 0.163 mW/g



0 dB = 0.163mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $\sigma = 0.932964$  mho/m,  $\epsilon_r = 55.2396$ ;  $\rho = 1000$  kg/m<sup>3</sup> Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Body Bottom QPSK 25RB 13offset 23790/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of Total (interpolated) = 13.0 V/m

**Hotspot Body Bottom QPSK 25RB 13offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

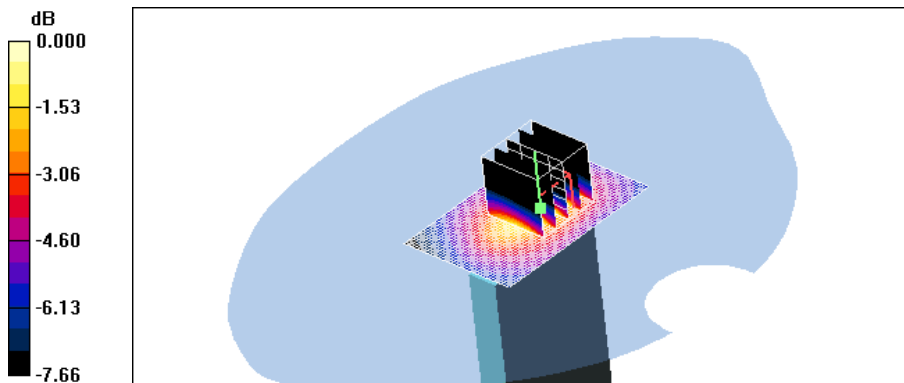
Reference Value = 12.7 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.498 W/kg

**SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.081 mW/g**

Maximum value of SAR (measured) = 0.155 mW/g

Maximum value of SAR (interpolated) = 0.157 mW/g



0 dB = 0.157V/m

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 1 RB 0 offset 16QAM 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.511 mW/g

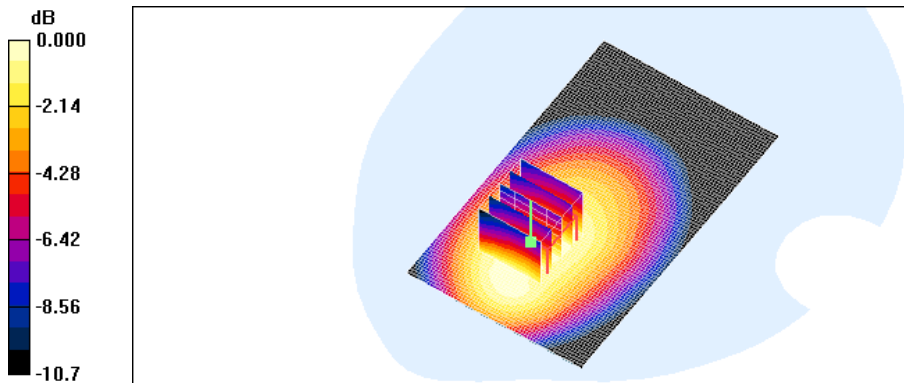
**Hotspot Body Rear 1 RB 0 offset 16QAM 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.6 V/m; Power Drift = 0.183 dB

Peak SAR (extrapolated) = 0.745 W/kg

**SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.353 mW/g**

Maximum value of SAR (measured) = 0.522 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

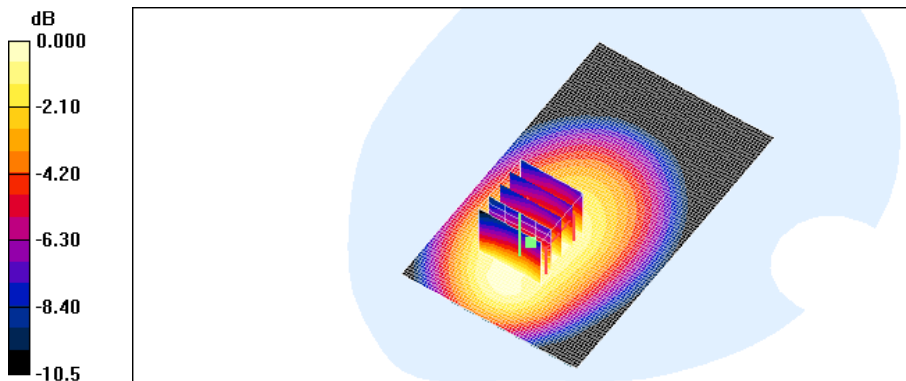
**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 1 RB 49 offset 16QAM R23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.418 mW/g

**Hotspot Body Rear 1 RB 49 offset 16QAM R23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 9.95 V/m; Power Drift = 0.137 dB  
Peak SAR (extrapolated) = 0.614 W/kg  
**SAR(1 g) = 0.404 mW/g; SAR(10 g) = 0.287 mW/g**  
Maximum value of SAR (measured) = 0.427 mW/g



0 dB = 0.427mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 25 RB 13 offset 16QAM R23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.364 mW/g

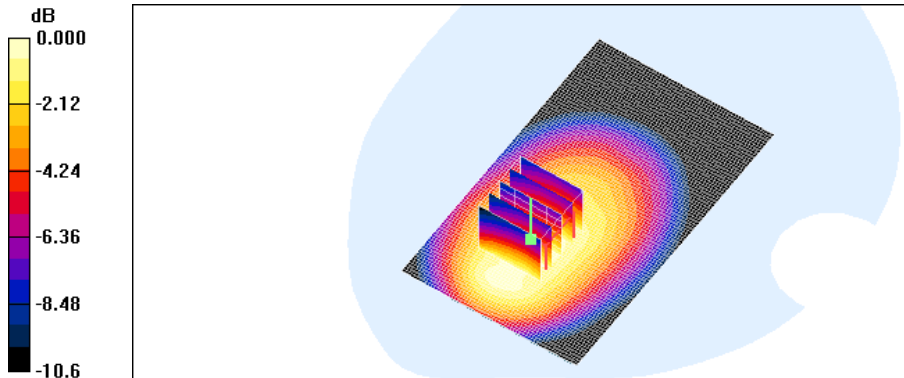
**Hotspot Body Rear 25 RB 13 offset 16QAM R23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.28 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 0.525 W/kg

**SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.247 mW/g**

Maximum value of SAR (measured) = 0.362 mW/g



0 dB = 0.362mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Front 1 RB 0 offset 16QAM 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.399 mW/g

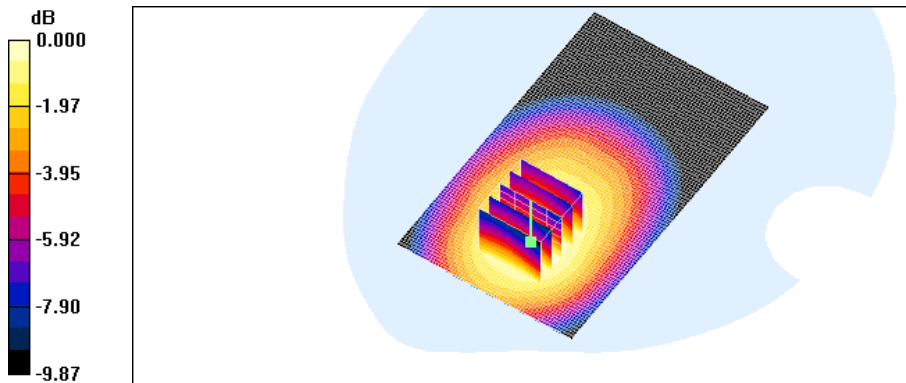
**Hotspot Body Front 1 RB 0 offset 16QAM 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.45 V/m; Power Drift = 0.151 dB

Peak SAR (extrapolated) = 0.545 W/kg

**SAR(1 g) = 0.378 mW/g; SAR(10 g) = 0.278 mW/g**

Maximum value of SAR (measured) = 0.398 mW/g



0 dB = 0.398mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Front 1 RB 49 offset 16QAM 23790/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.334 mW/g

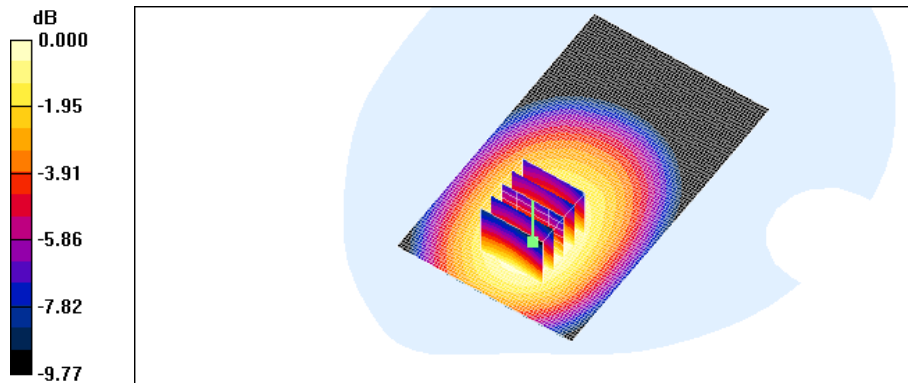
**Hotspot Body Front 1 RB 49 offset 16QAM 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 8.07 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 0.474 W/kg

**SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.235 mW/g**

Maximum value of SAR (measured) = 0.333 mW/g



0 dB = 0.333mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

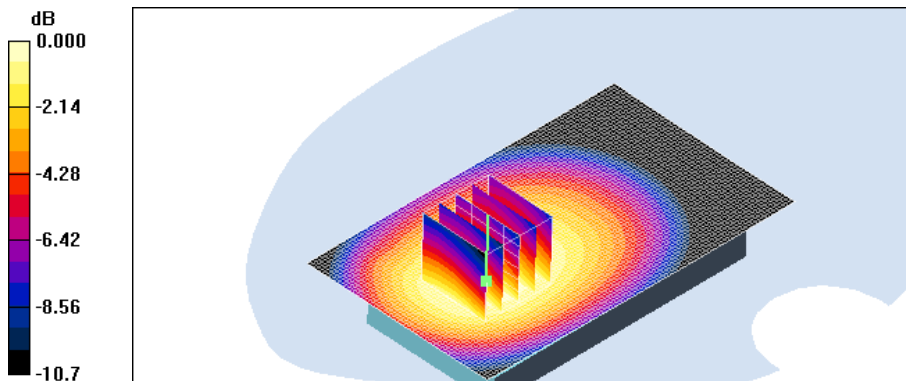
**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Front 25 RB 13 offset 16QAM 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.299 mW/g

**Hotspot Body Front 25 RB 13 offset 16QAM 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 8.78 V/m; Power Drift = -0.003 dB  
Peak SAR (extrapolated) = 0.419 W/kg  
**SAR(1 g) = 0.286 mW/g; SAR(10 g) = 0.207 mW/g**  
Maximum value of SAR (measured) = 0.301 mW/g





Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Left 1RB 0 offset 16QAM 23790/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.189 mW/g

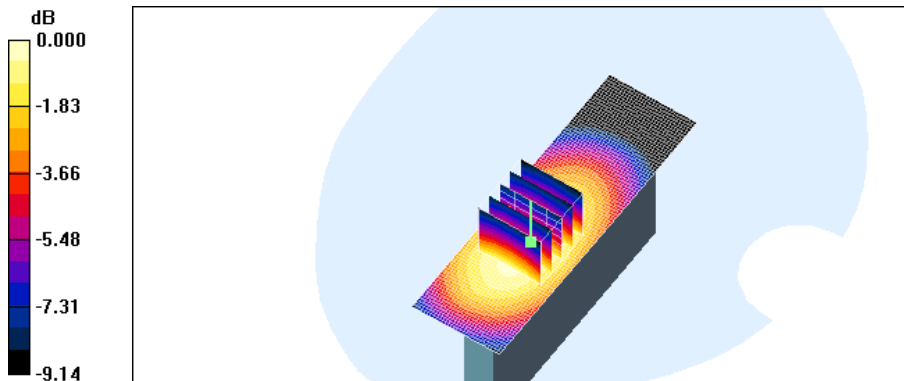
**Hotspot Body Left 1RB 0 offset 16QAM 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.45 V/m; Power Drift = -0.039 dB

Peak SAR (extrapolated) = 0.290 W/kg

**SAR(1 g) = 0.182 mW/g; SAR(10 g) = 0.125 mW/g**

Maximum value of SAR (measured) = 0.192 mW/g



0 dB = 0.192mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Left 1RB 49 offset 16QAM 23790/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.154 mW/g

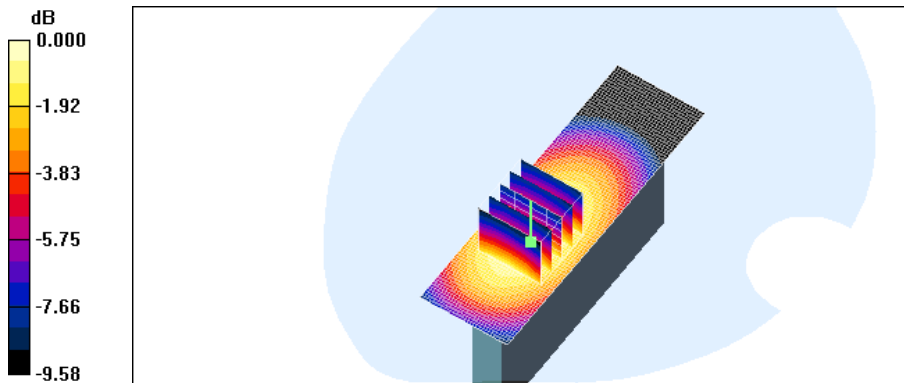
**Hotspot Body Left 1RB 49 offset 16QAM 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.53 V/m; Power Drift = 0.059 dB

Peak SAR (extrapolated) = 0.231 W/kg

**SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.104 mW/g**

Maximum value of SAR (measured) = 0.164 mW/g



0 dB = 0.164mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Left 25 RB 13 offset 16QAM 23790/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.148 mW/g

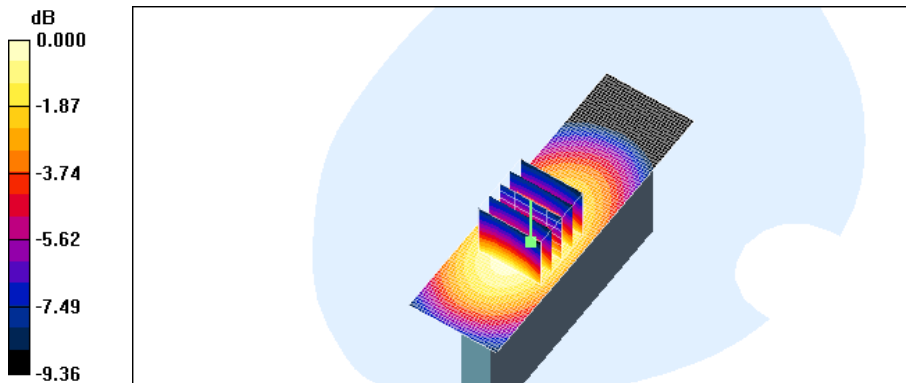
**Hotspot Body Left 25 RB 13 offset 16QAM 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.50 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 0.220 W/kg

**SAR(1 g) = 0.143 mW/g; SAR(10 g) = 0.098 mW/g**

Maximum value of SAR (measured) = 0.150 mW/g



0 dB = 0.150mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Right side 16QAM 1 RB 0 offset 23790/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.254 mW/g

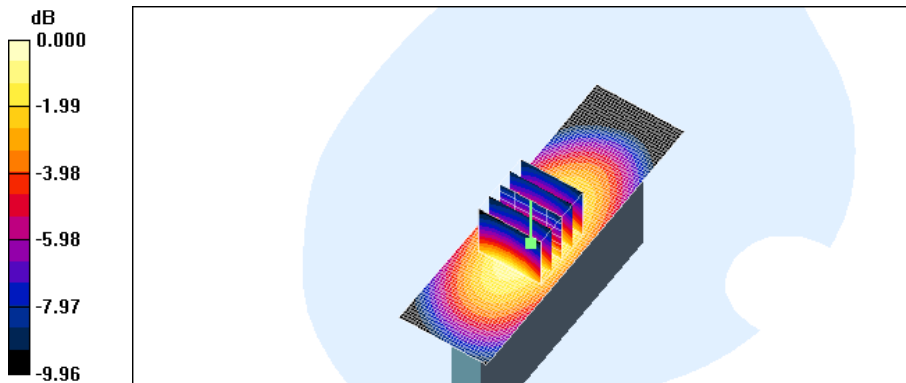
**Hotspot Right side 16QAM 1 RB 0 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.410 W/kg

**SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.160 mW/g**

Maximum value of SAR (measured) = 0.259 mW/g



0 dB = 0.259mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Right 1 RB 49 offset 16QAM 23790/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.139 mW/g

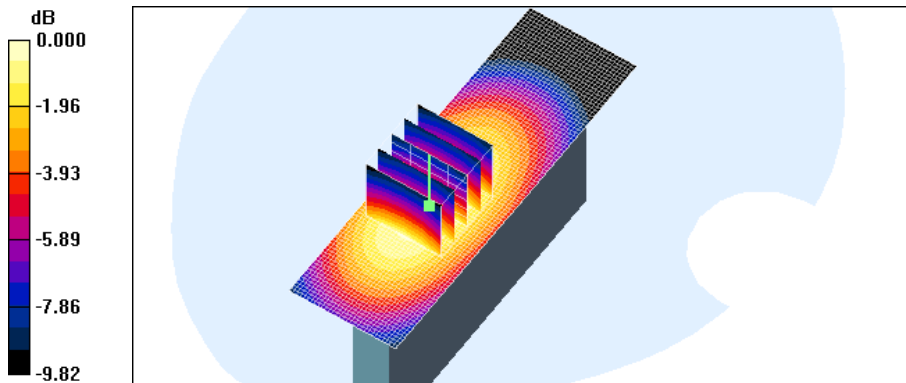
**Hotspot Body Right 1 RB 49 offset 16QAM 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.39 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 0.217 W/kg

**SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.088 mW/g**

Maximum value of SAR (measured) = 0.141 mW/g



0 dB = 0.141mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

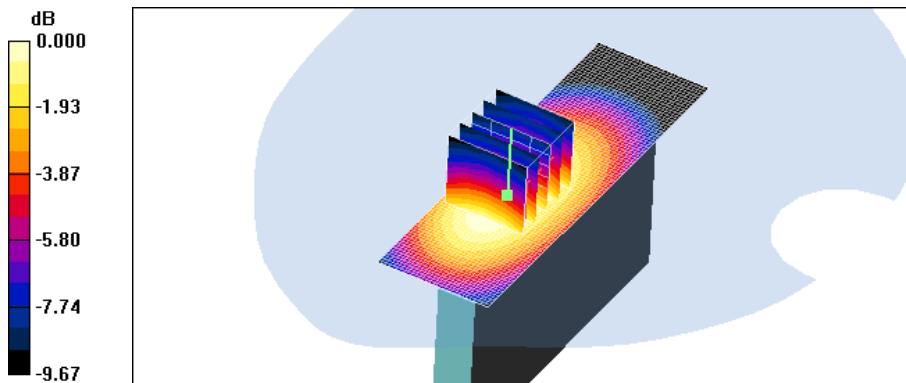
**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Right 25 RB 13 offset 16QAM 23790/Area Scan (31x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.132 mW/g

**Hotspot Body Right 25 RB 13 offset 16QAM 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 7.16 V/m; Power Drift = -0.021 dB  
Peak SAR (extrapolated) = 0.193 W/kg  
**SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.083 mW/g**  
Maximum value of SAR (measured) = 0.128 mW/g



0 dB = 0.128mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Body Bottom 16QAM 1 RB 0 offset 23790/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.138 mW/g

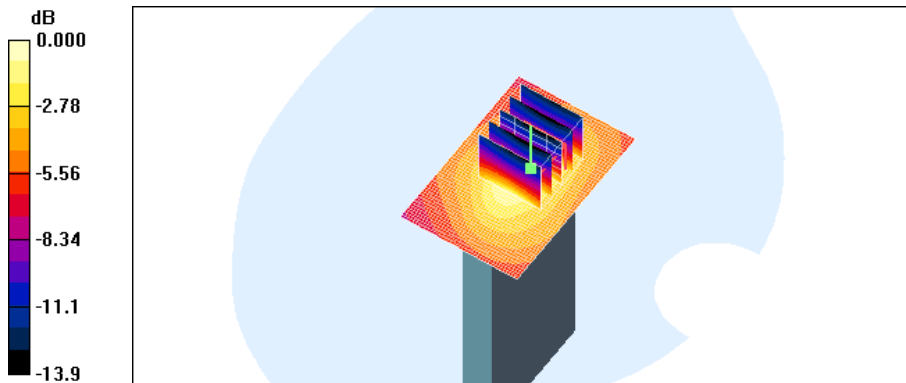
**Hotspot Body Bottom 16QAM 1 RB 0 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.0 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 0.476 W/kg

**SAR(1 g) = 0.146 mW/g; SAR(10 g) = 0.073 mW/g**

Maximum value of SAR (measured) = 0.139 mW/g



0 dB = 0.139mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

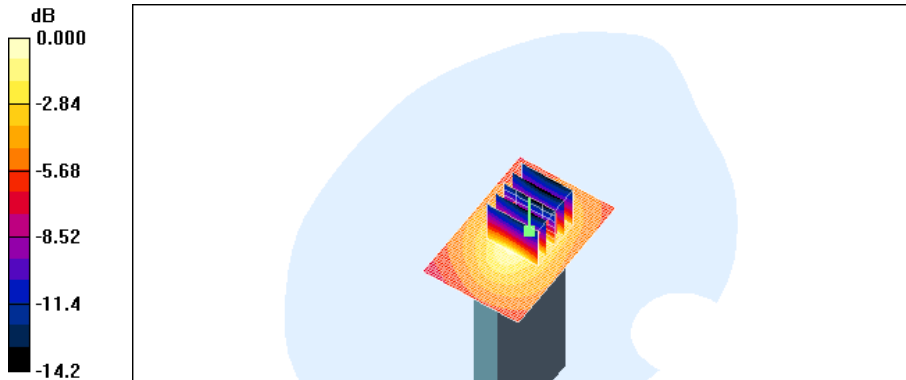
**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Body Bottom 16QAM 1 RB 49 offset 23790/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.129 mW/g

**Hotspot Body Bottom 16QAM 1 RB 49 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 11.5 V/m; Power Drift = -0.006 dB  
Peak SAR (extrapolated) = 0.401 W/kg  
**SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.067 mW/g**  
Maximum value of SAR (measured) = 0.128 mW/g



0 dB = 0.128mW/g

Test Laboratory: HCT CO., LTD  
 EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
 Liquid Temperature: 21.3 °C  
 Ambient Temperature: 21.5 °C  
 Test Date: Aug.02, 2011

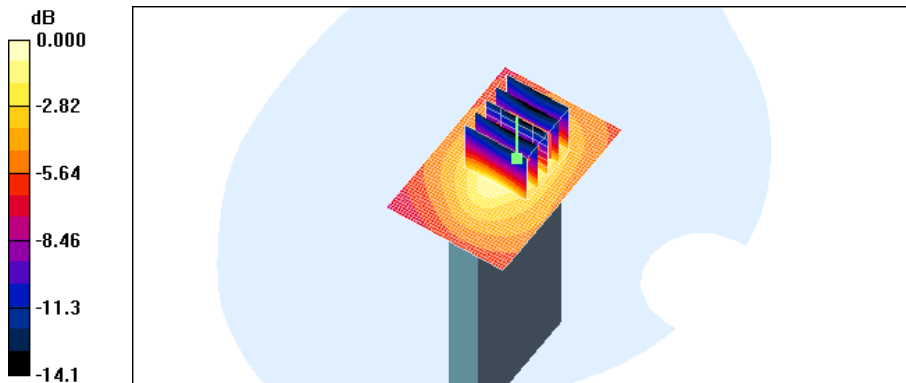
**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.933 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
 - Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14  
 - Sensor-Surface: 4mm (Mechanical Surface Detection)  
 - Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
 - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Body Bottom 16QAM 25 RB 13 offset 23790/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.127 mW/g

**Hotspot Body Bottom 16QAM 25 RB 13 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 11.3 V/m; Power Drift = 0.027 dB  
 Peak SAR (extrapolated) = 0.405 W/kg  
**SAR(1 g) = 0.129 mW/g; SAR(10 g) = 0.065 mW/g**  
 Maximum value of SAR (measured) = 0.127 mW/g



0 dB = 0.127mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 20525 1 RB 0 offset QPSK /Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.618 mW/g

**Hotspot Body Rear 20525 1 RB 0 offset QPSK /Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.8 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.724 W/kg

**SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.440 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.629 mW/g

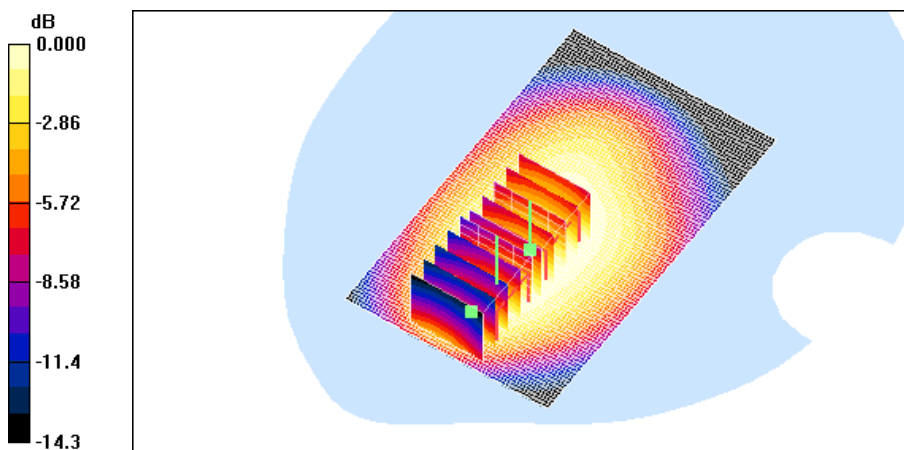
**Hotspot Body Rear 20525 1 RB 0 offset QPSK/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.8 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.747 W/kg

**SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.322 mW/g**

Maximum value of SAR (measured) = 0.537 mW/g



0 dB = 0.537mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 20525 1RB 49offset QPSK/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.532 mW/g

**Hotspot Body Rear 20525 1RB 49offset QPSK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

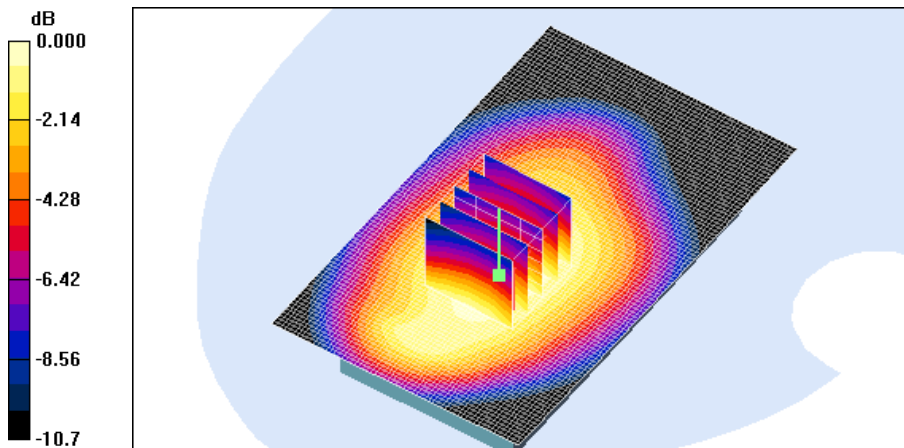
Reference Value = 15.2 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.624 W/kg

**SAR(1 g) = 0.508 mW/g; SAR(10 g) = 0.374 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.538 mW/g



0 dB = 0.538mW/g

Test Laboratory: HCT CO., LTD  
 EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
 Liquid Temperature: 21.3 °C  
 Ambient Temperature: 21.5 °C  
 Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.951 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 20525 25RB 13 offset QPSK/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.485 mW/g

**Hotspot Body Rear 20525 25RB 13 offset QPSK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

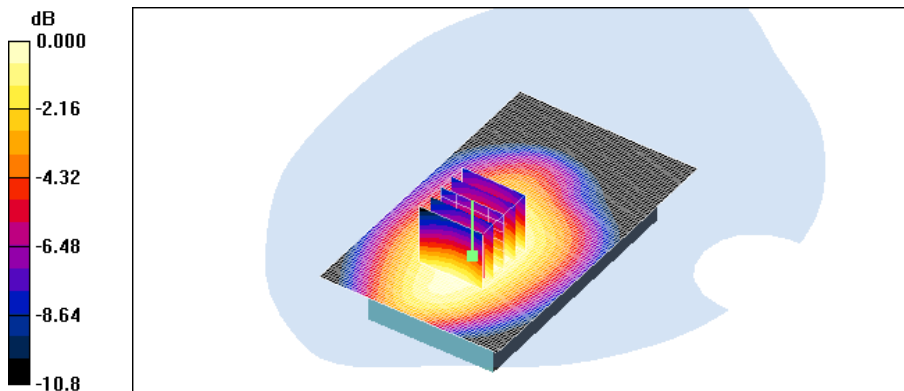
Reference Value = 12.1 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 0.565 W/kg

**SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.336 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.481 mW/g



0 dB = 0.481mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Body Front QPSK 1 RB 0 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.603 mW/g

**Hotspot Body Front QPSK 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

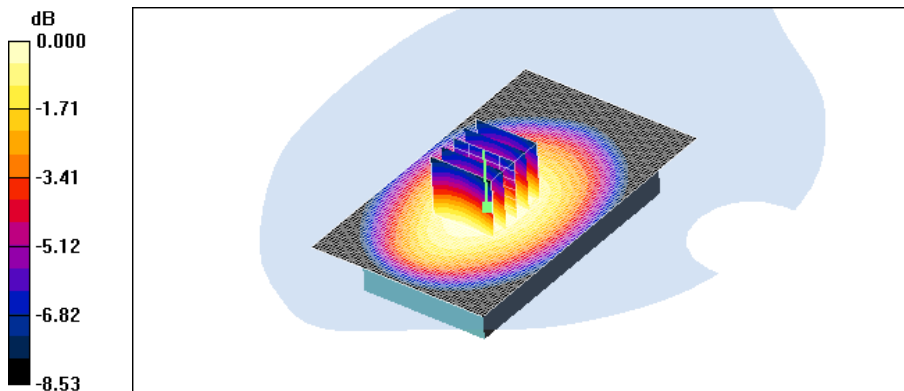
Reference Value = 18.8 V/m; Power Drift = -0.004 dB

Peak SAR (extrapolated) = 0.678 W/kg

**SAR(1 g) = 0.574 mW/g; SAR(10 g) = 0.440 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.602 mW/g



0 dB = 0.602mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Body Front QPSK 1 RB 49 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.500 mW/g

**Hotspot Body Front QPSK 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

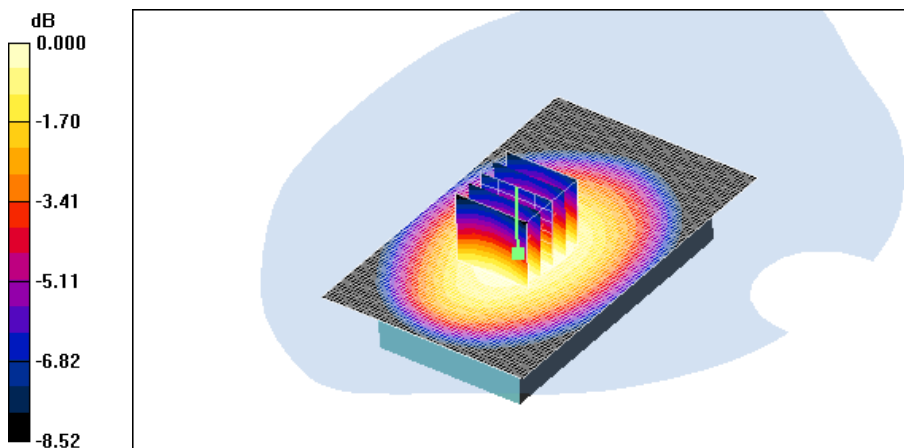
Reference Value = 17.3 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 0.564 W/kg

**SAR(1 g) = 0.471 mW/g; SAR(10 g) = 0.360 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.495 mW/g



0 dB = 0.495mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Front 20525 25 RB 13 offset QPSK/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.451 mW/g

**Hotspot Body Front 20525 25 RB 13 offset QPSK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

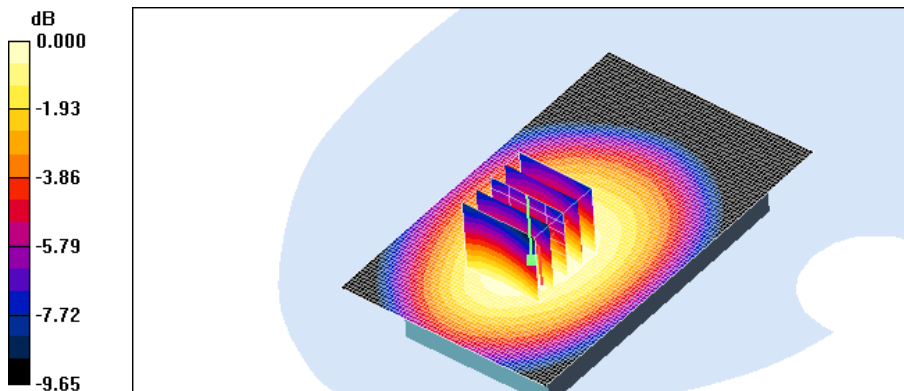
Reference Value = 13.7 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.516 W/kg

**SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.324 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.449 mW/g



0 dB = 0.449mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Left side QPSK 1 RB 0 offset 20525/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.531 mW/g

**Hotspot Left side QPSK 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

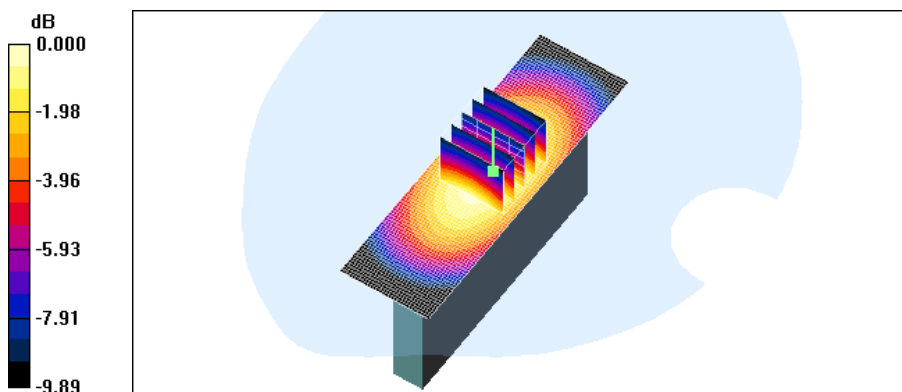
Reference Value = 20.1 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.672 W/kg

**SAR(1 g) = 0.496 mW/g; SAR(10 g) = 0.340 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.532 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Left side QPSK 1 RB 49 offset 20525/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.439 mW/g

**Hotspot Left side QPSK 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

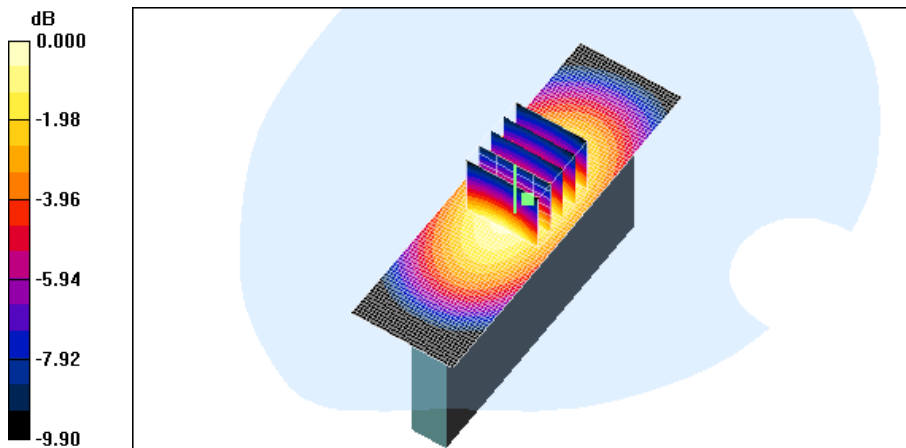
Reference Value = 18.7 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.568 W/kg

**SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.281 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.442 mW/g



0 dB = 0.442mW/g

Test Laboratory: HCT CO., LTD  
 EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
 Liquid Temperature: 21.3 °C  
 Ambient Temperature: 21.5 °C  
 Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

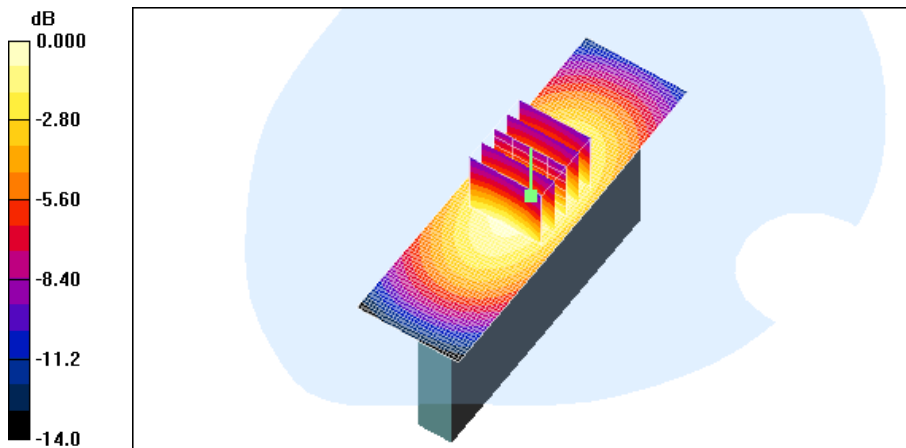
Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.951 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Left side QPSK 25 RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 17.7 V/m; Power Drift = -0.038 dB  
 Peak SAR (extrapolated) = 0.513 W/kg  
**SAR(1 g) = 0.379 mW/g; SAR(10 g) = 0.259 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)  
 Maximum value of SAR (measured) = 0.410 mW/g

**Hotspot Left side QPSK 25 RB 13 offset 20525/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm  
[Info: Interpolated medium parameters used for SAR evaluation.](#)  
 Maximum value of SAR (interpolated) = 0.407 mW/g



0 dB = 0.407mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.951 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Right side QPSK 1 RB 0 offset 20525/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.566 mW/g

**Hotspot Right side QPSK 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

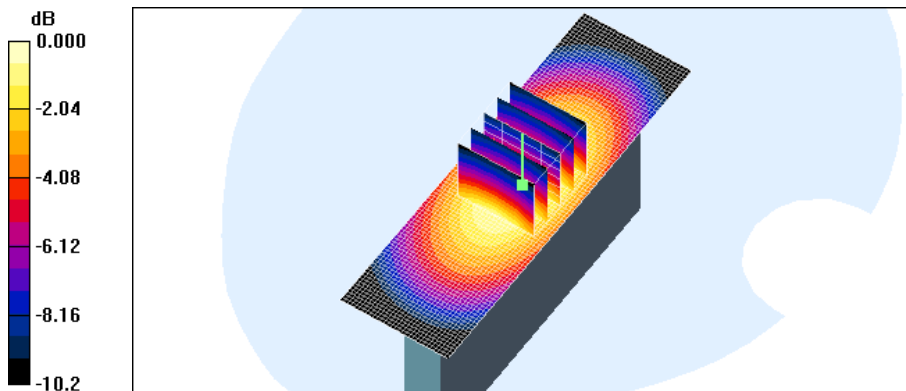
Reference Value = 19.9 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 0.725 W/kg

**SAR(1 g) = 0.528 mW/g; SAR(10 g) = 0.355 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.569 mW/g



0 dB = 0.569mW/g

Test Laboratory: HCT CO., LTD  
 EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
 Liquid Temperature: 21.3 °C  
 Ambient Temperature: 21.5 °C  
 Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.951 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Right side QPSK 1 RB 49 offset 20525/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.537 mW/g

**Hotspot Right side QPSK 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

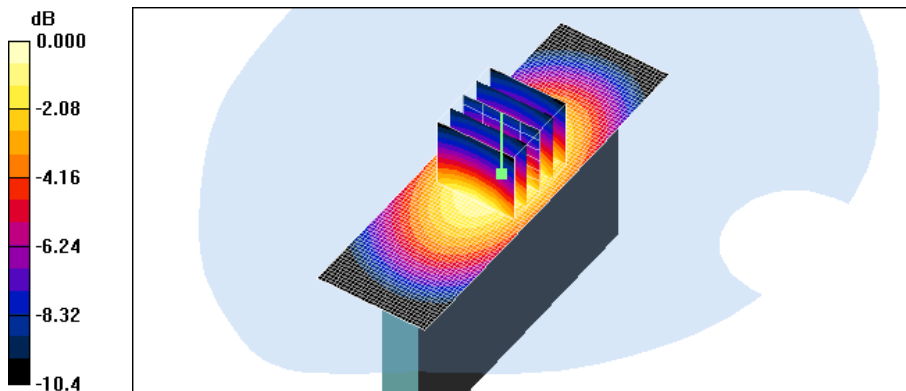
Reference Value = 19.0 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.704 W/kg

**SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.336 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.549 mW/g



0 dB = 0.549mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Right side QPSK 25RB 13 offset 20525/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.439 mW/g

**Hotspot Right side QPSK 25RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

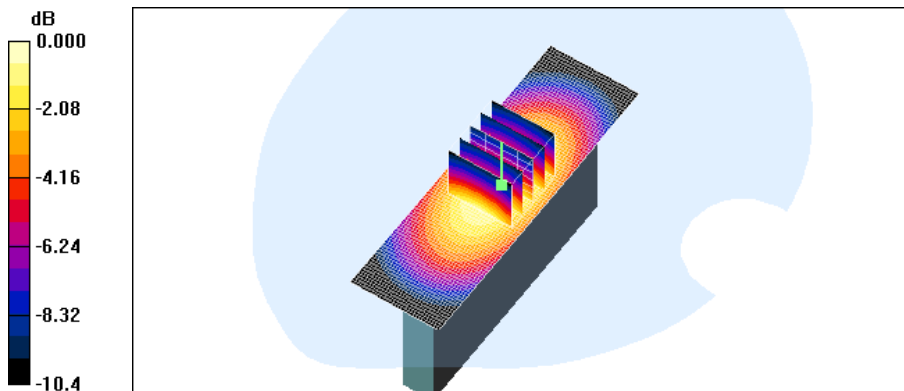
Reference Value = 17.6 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 0.581 W/kg

**SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.274 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.448 mW/g



0 dB = 0.448mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.951 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Bottom QPSK 1 RB 0 offset 20525/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.102 mW/g

**Hotspot Bottom QPSK 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

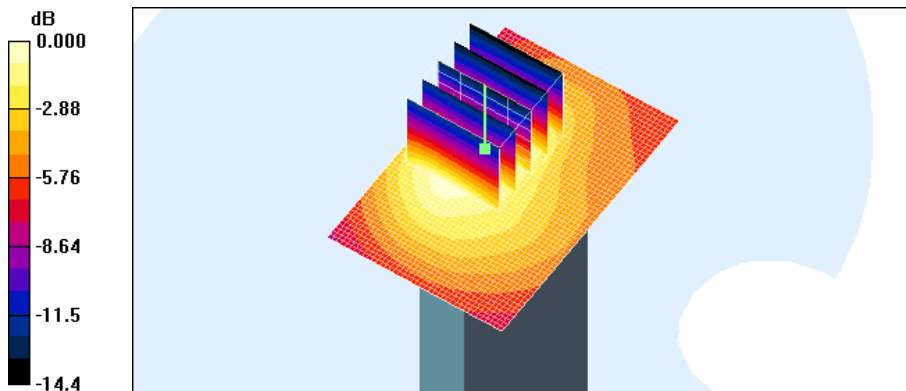
Reference Value = 10.8 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 0.224 W/kg

**SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.053 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.098 mW/g



0 dB = 0.098mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Bottom QPSK 1 RB 49 offset 20525/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.106 mW/g

**Hotspot Bottom QPSK 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

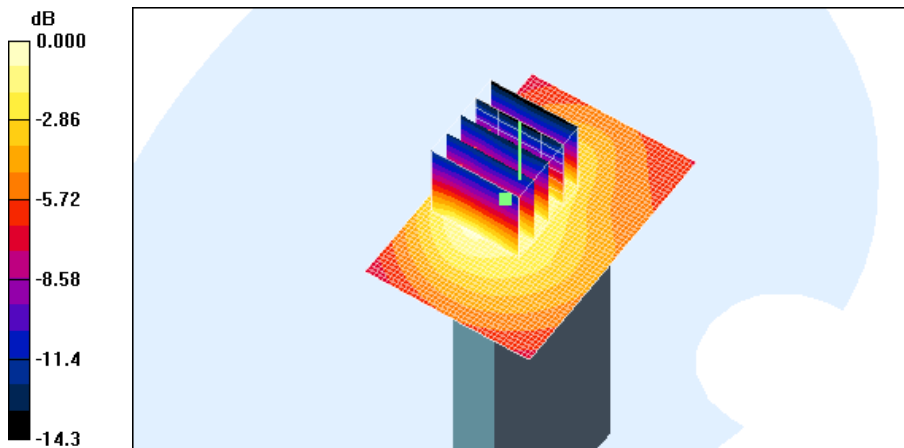
Reference Value = 11.0 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.226 W/kg

**SAR(1 g) = 0.098 mW/g; SAR(10 g) = 0.056 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.101 mW/g



0 dB = 0.101mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Bottom QPSK 25 RB 13 offset 20525/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.087 mW/g

**Hotspot Bottom QPSK 25 RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

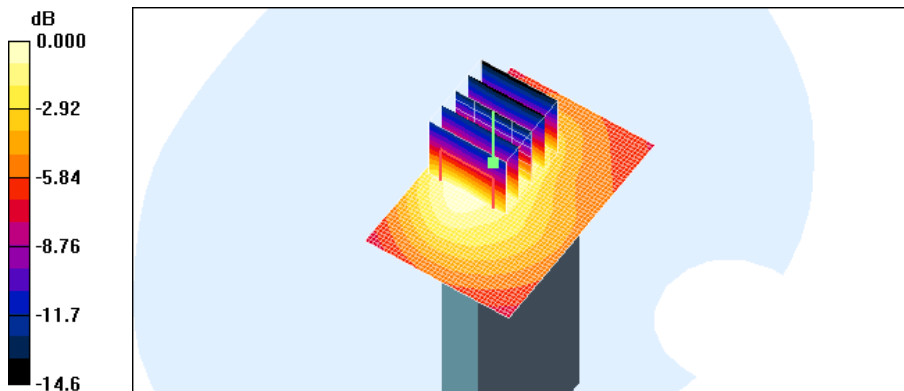
Reference Value = 10.1 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.197 W/kg

**SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.047 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.085 mW/g



0 dB = 0.085mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 20525 1RB 0 offset 16QAM/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.495 mW/g

**Hotspot Body Rear 20525 1RB 0 offset 16QAM/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

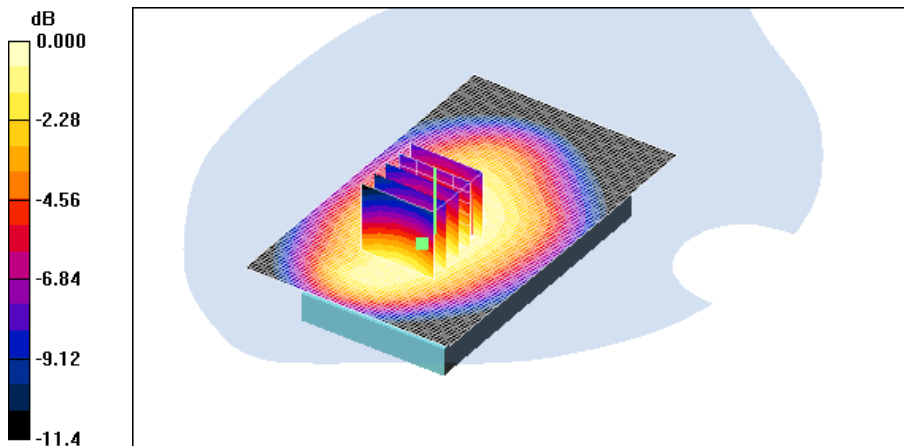
Reference Value = 16.1 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.592 W/kg

**SAR(1 g) = 0.478 mW/g; SAR(10 g) = 0.352 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.506 mW/g



0 dB = 0.506mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 20525 1 RB 49 offset 16QAM/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.432 mW/g

**Hotspot Body Rear 20525 1 RB 49 offset 16QAM/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

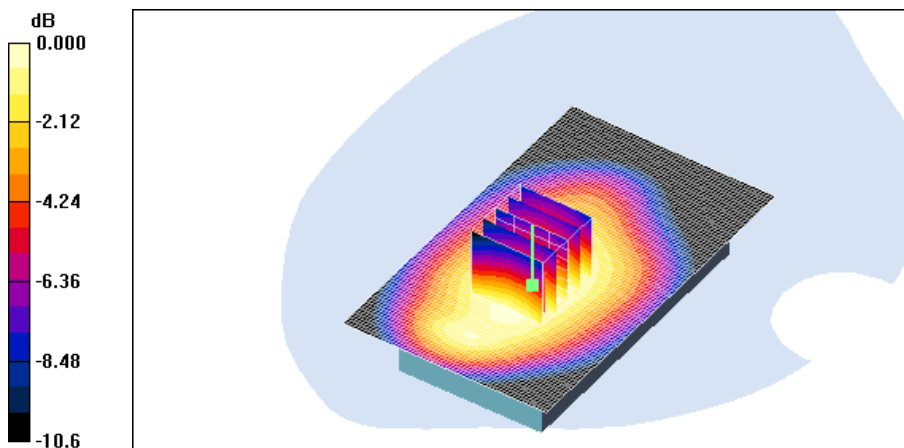
Reference Value = 13.6 V/m; Power Drift = -0.004 dB

Peak SAR (extrapolated) = 0.509 W/kg

**SAR(1 g) = 0.410 mW/g; SAR(10 g) = 0.302 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.432 mW/g



0 dB = 0.432mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 20525 25 RB 13 offset 16QAM/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.431 mW/g

**Hotspot Body Rear 20525 25 RB 13 offset 16QAM/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

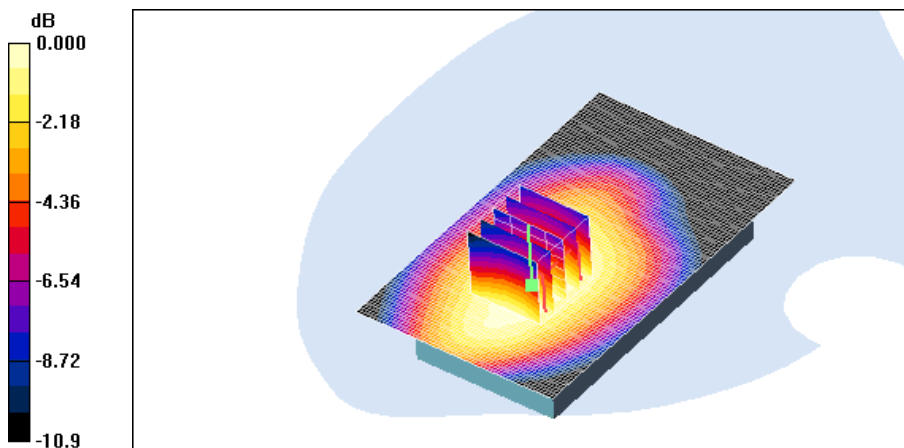
Reference Value = 11.5 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 0.513 W/kg

**SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.301 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.437 mW/g



0 dB = 0.437mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.951 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Body Front 16QAM 1 RB 0 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.469 mW/g

**Hotspot Body Front 16QAM 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

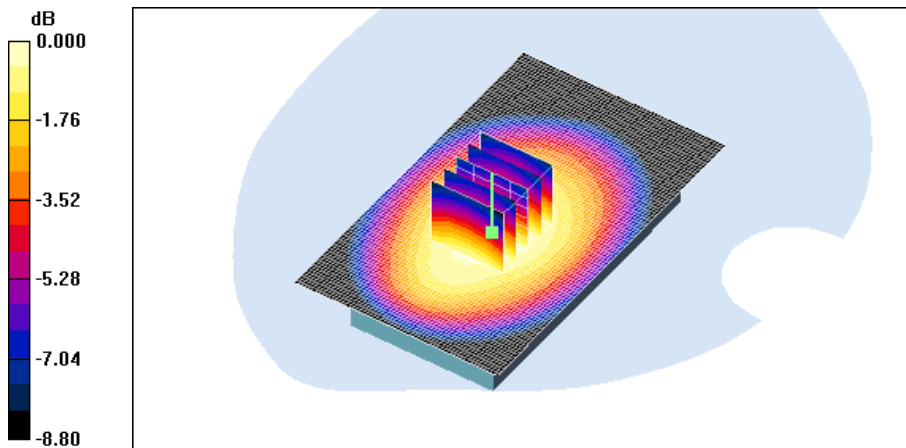
Reference Value = 16.6 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 0.567 W/kg

**SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.345 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.488 mW/g



0 dB = 0.488mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Body Front 16QAM 1 RB 49 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.403 mW/g

**Hotspot Body Front 16QAM 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

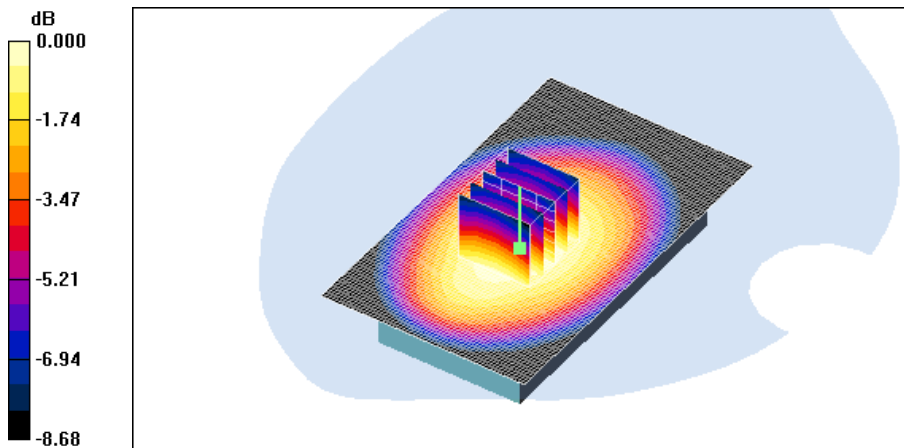
Reference Value = 15.6 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 0.455 W/kg

**SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.290 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.400 mW/g



0 dB = 0.400mW/g



Test Laboratory: HCT CO., LTD  
 EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
 Liquid Temperature: 21.3 °C  
 Ambient Temperature: 21.5 °C  
 Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.951 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Body Front 16QAM 25 RB 13 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.385 mW/g

**Hotspot Body Front 16QAM 25 RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

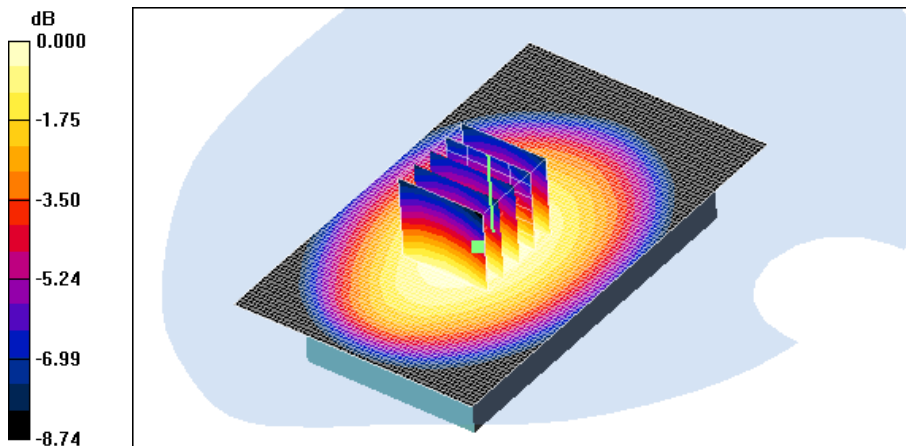
Reference Value = 15.0 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 0.440 W/kg

**SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.279 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.385 mW/g



0 dB = 0.385mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Left side 16QAM 1 RB 0 offset 20525/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.426 mW/g

**Hotspot Left side 16QAM 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

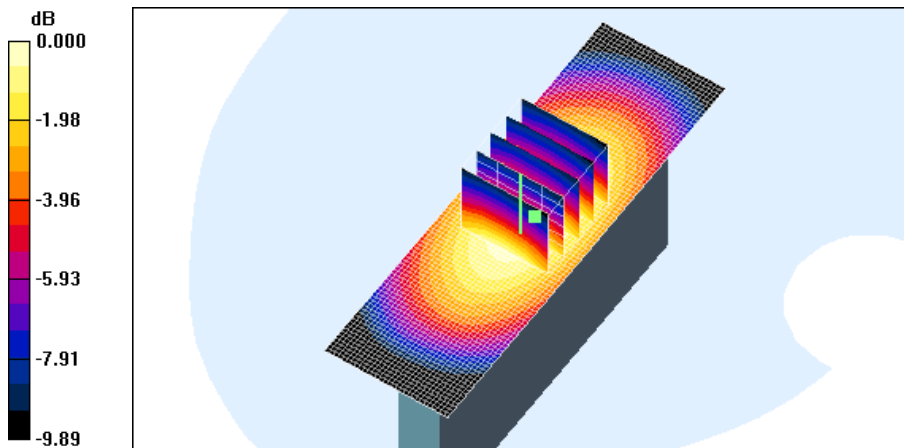
Reference Value = 18.2 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.545 W/kg

**SAR(1 g) = 0.390 mW/g; SAR(10 g) = 0.269 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.421 mW/g



0 dB = 0.421mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Left side 16QAM 1 RB 49 offset 20525/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.352 mW/g

**Hotspot Left side 16QAM 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

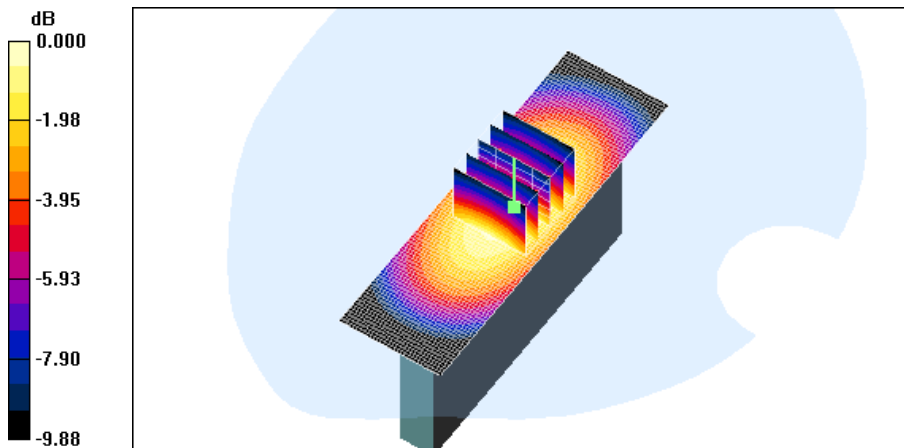
Reference Value = 16.6 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 0.447 W/kg

**SAR(1 g) = 0.330 mW/g; SAR(10 g) = 0.225 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.357 mW/g



0 dB = 0.357mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.951 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Left side 16QAM 25 RB 13 offset 20525/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.326 mW/g

**Hotspot Left side 16QAM 25 RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

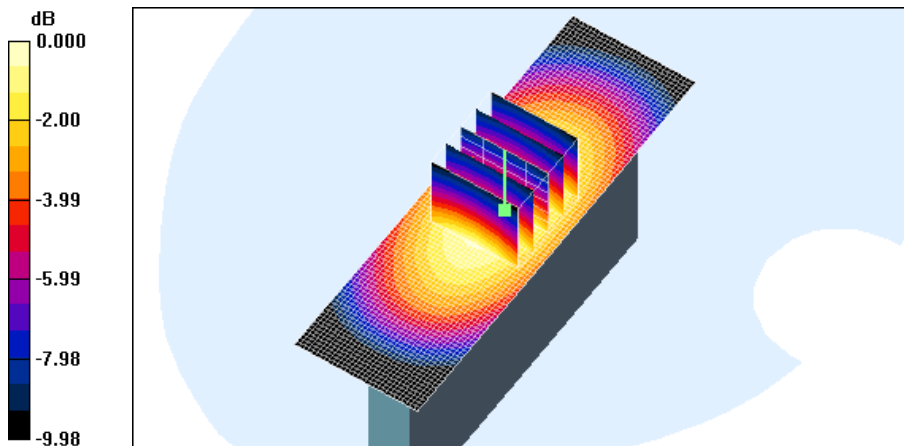
Reference Value = 15.8 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.426 W/kg

**SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.210 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.332 mW/g



0 dB = 0.332mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Right side 16QAM 1 RB 0 offset 20525/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.451 mW/g

**Hotspot Right side 16QAM 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

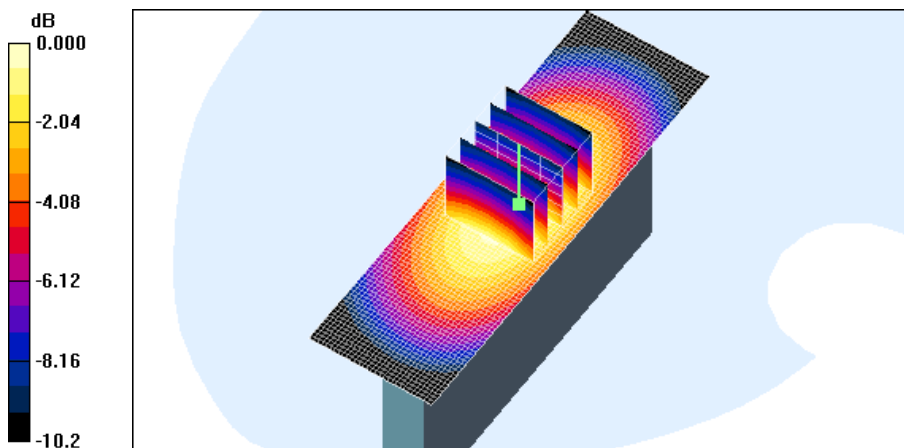
Reference Value = 17.9 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.605 W/kg

**SAR(1 g) = 0.422 mW/g; SAR(10 g) = 0.282 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.450 mW/g



0 dB = 0.450mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.951 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Right side 16QAM 1 RB 49 offset 20525/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.404 mW/g

**Hotspot Right side 16QAM 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

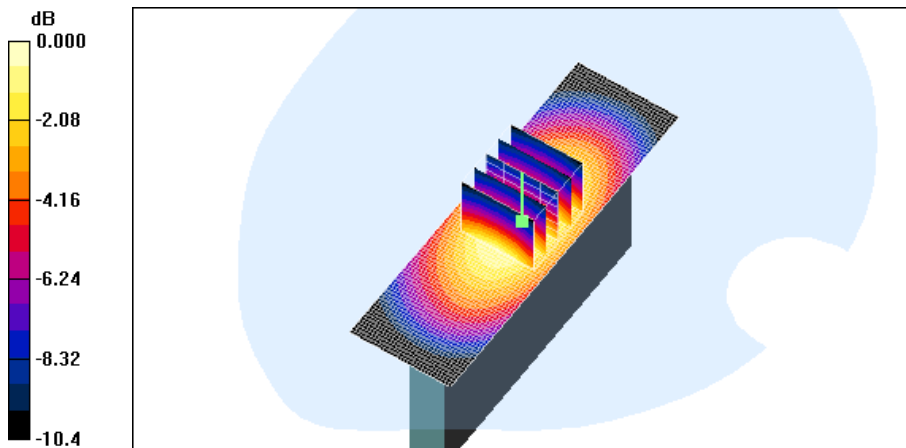
Reference Value = 17.1 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 0.549 W/kg

**SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.263 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.425 mW/g



0 dB = 0.425mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Right side 16QAM 25 RB 13 offset 20525/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.305 mW/g

**Hotspot Right side 16QAM 25 RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

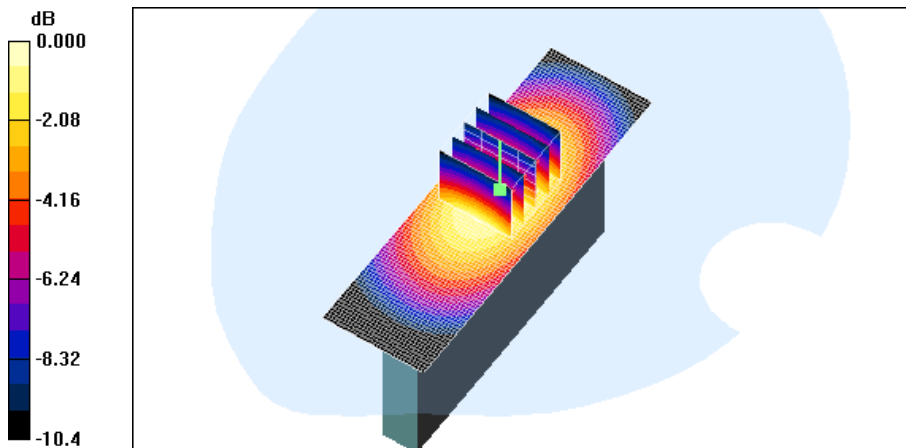
Reference Value = 16.1 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.403 W/kg

**SAR(1 g) = 0.288 mW/g; SAR(10 g) = 0.193 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.312 mW/g



0 dB = 0.312mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.951 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Bottom 16QAM 1 RB 0 offset 20525/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.078 mW/g

**Hotspot Bottom 16QAM 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

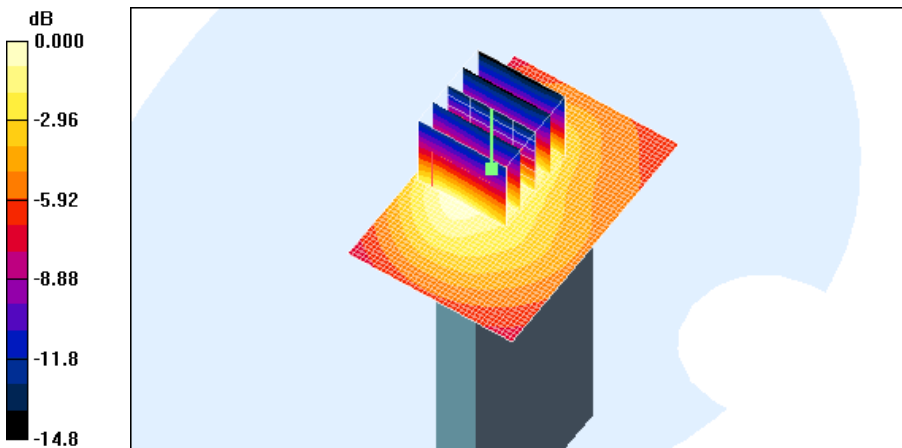
Reference Value = 9.49 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.178 W/kg

**SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.041 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.076 mW/g



0 dB = 0.076mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.951 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Hotspot Bottom 16QAM 1 RB 49 offset 20525/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.084 mW/g

**Hotspot Bottom 16QAM 1 RB 49 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

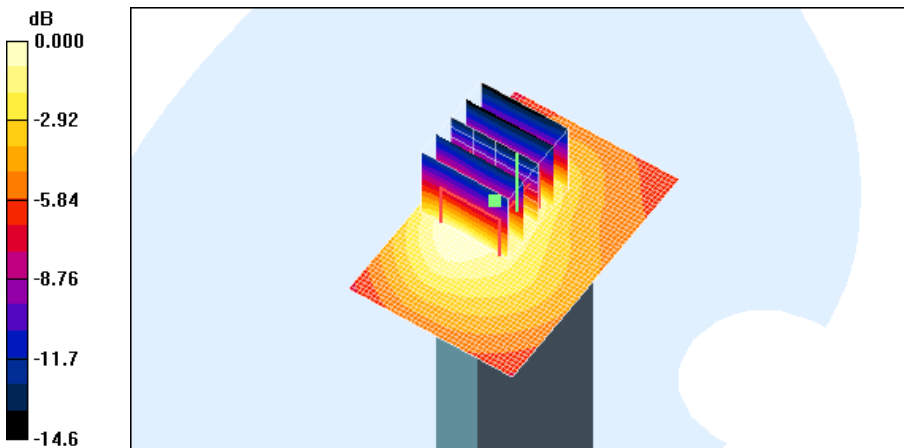
Reference Value = 9.73 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.176 W/kg

**SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.042 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.077 mW/g



0 dB = 0.077mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 800/900 Phantom; Type: SAM

**Hotspot Bottom 16QAM 25 RB 13 offset 20525/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.067 mW/g

**Hotspot Bottom 16QAM 25 RB 13 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

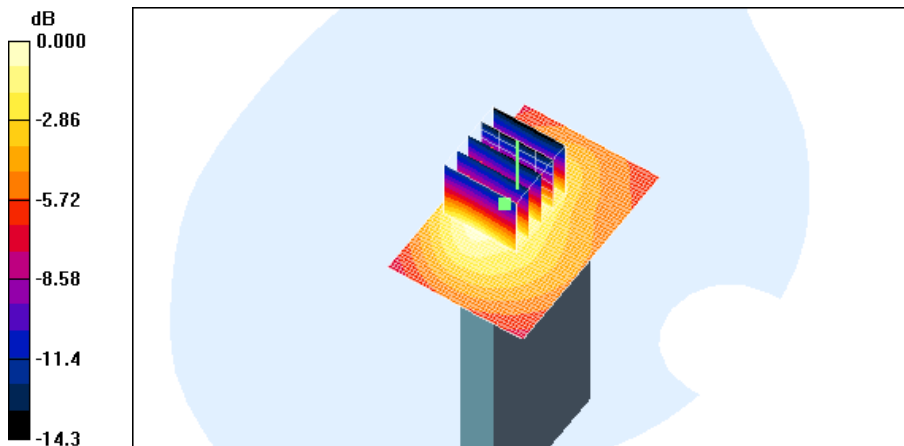
Reference Value = 8.76 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.152 W/kg

**SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.035 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.065 mW/g



0 dB = 0.065mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Rear 20175 1 RB 0 offset/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.704 mW/g

**Hotspot Body Rear 20175 1 RB 0 offset/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

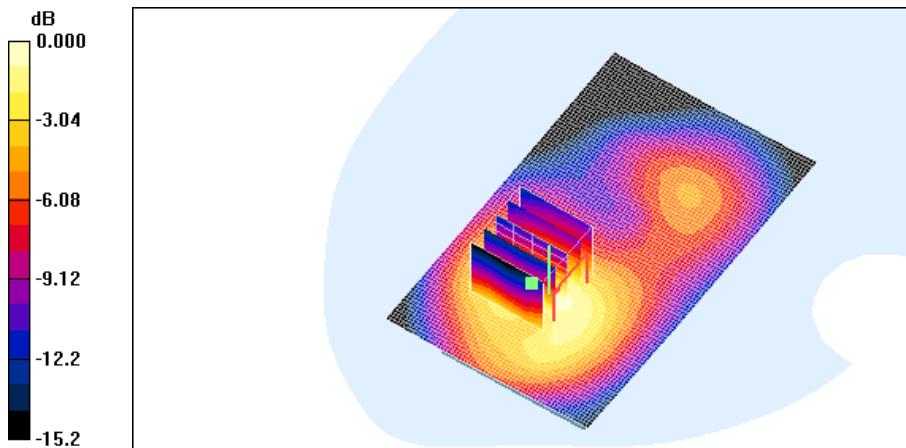
Reference Value = 12.2 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.993 W/kg

**SAR(1 g) = 0.705 mW/g; SAR(10 g) = 0.440 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.769 mW/g



0 dB = 0.769mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Rear 20175 1 RB 49 offset QPSK/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.601 mW/g

**Hotspot Body Rear 20175 1 RB 49 offset QPSK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

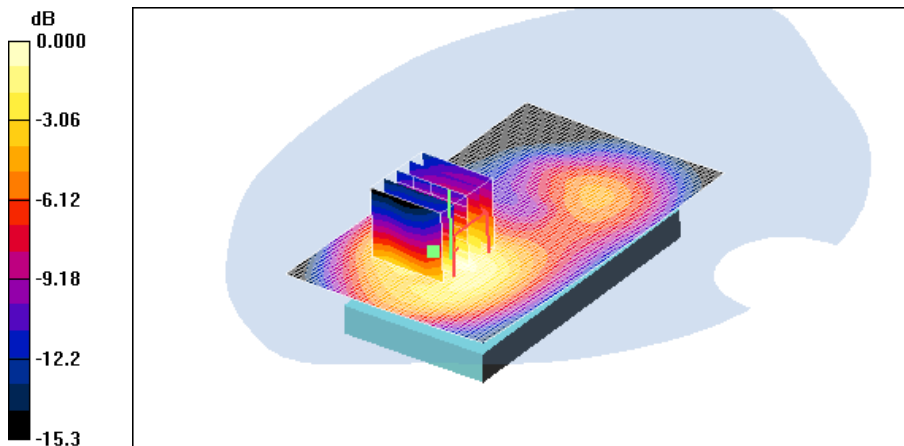
Reference Value = 11.6 V/m; Power Drift = -0.184 dB

Peak SAR (extrapolated) = 0.872 W/kg

**SAR(1 g) = 0.603 mW/g; SAR(10 g) = 0.376 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.663 mW/g



0 dB = 0.663mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Rear 20175 25 RB 13 offset QPSK/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.515 mW/g

**Hotspot Body Rear 20175 25 RB 13 offset QPSK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

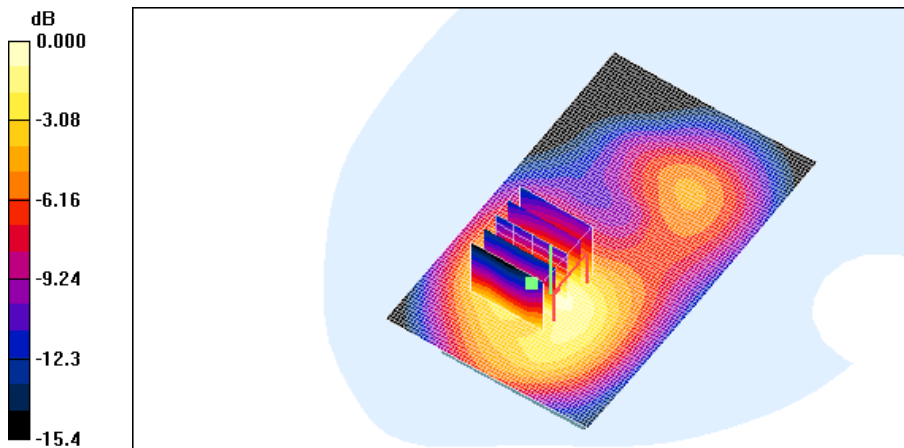
Reference Value = 10.5 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 0.748 W/kg

**SAR(1 g) = 0.523 mW/g; SAR(10 g) = 0.326 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.571 mW/g



0 dB = 0.571mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Front 20175 1 RB 0 offset QPSK/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.680 mW/g

**Hotspot Body Front 20175 1 RB 0 offset QPSK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = -0.080 dB

Peak SAR (extrapolated) = 0.832 W/kg

**SAR(1 g) = 0.591 mW/g; SAR(10 g) = 0.348 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.674 mW/g

**Hotspot Body Front 20175 1 RB 0 offset QPSK/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

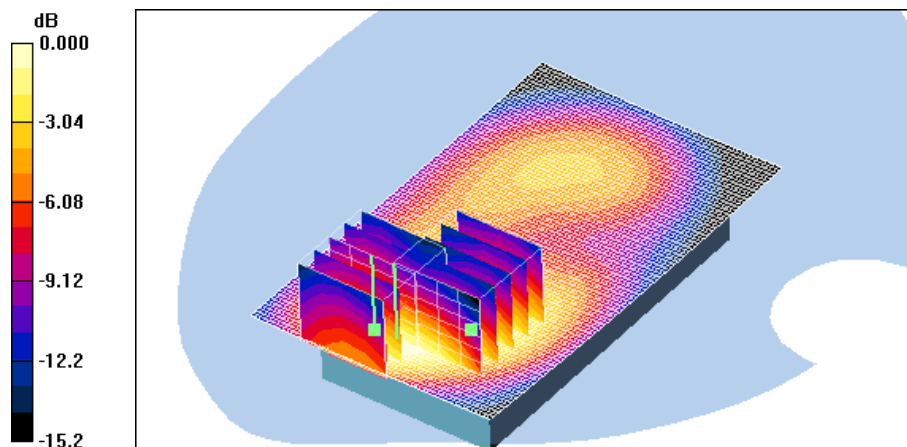
Reference Value = 13.7 V/m; Power Drift = -0.080 dB

Peak SAR (extrapolated) = 0.741 W/kg

**SAR(1 g) = 0.480 mW/g; SAR(10 g) = 0.310 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.612 mW/g



0 dB = 0.612mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Body Front 20175 1 RB 49 offset QPSK/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.745 mW/g

**Hotspot Body Front 20175 1 RB 49 offset QPSK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

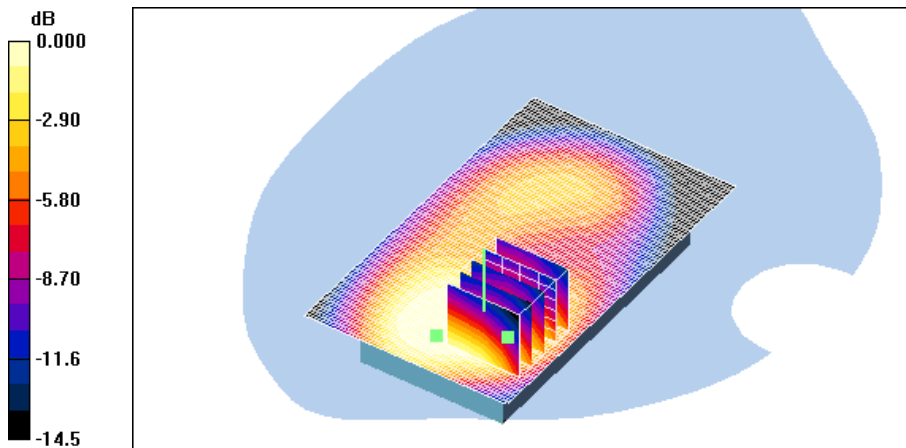
Reference Value = 15.5 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 0.924 W/kg

**SAR(1 g) = 0.657 mW/g; SAR(10 g) = 0.423 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.705 mW/g



0 dB = 0.705mW/g



Test Laboratory: HCT CO., LTD  
 EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
 Liquid Temperature: 21.2 °C  
 Ambient Temperature: 21.4 °C  
 Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

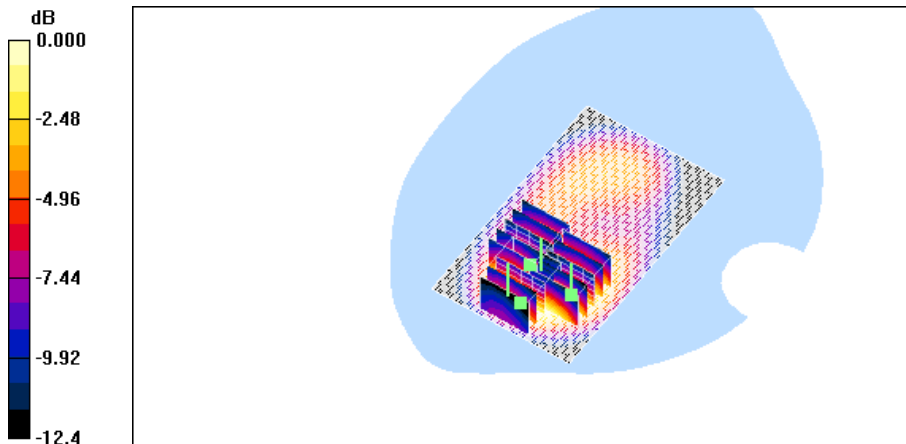
DASY4 Configuration:  
 - Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14  
 - Sensor-Surface: 4mm (Mechanical Surface Detection)  
 - Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
 - Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Body Front 20175 25 RB 13 offset QPSK/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.647 mW/g

**Hotspot Body Front 20175 25 RB 13 offset QPSK/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 12.7 V/m; Power Drift = 0.090 dB  
 Peak SAR (extrapolated) = 0.768 W/kg  
**SAR(1 g) = 0.548 mW/g; SAR(10 g) = 0.345 mW/g**  
 Maximum value of SAR (measured) = 0.600 mW/g

**Hotspot Body Front 20175 25 RB 13 offset QPSK/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 12.7 V/m; Power Drift = 0.090 dB  
 Peak SAR (extrapolated) = 0.772 W/kg  
**SAR(1 g) = 0.543 mW/g; SAR(10 g) = 0.350 mW/g**  
 Maximum value of SAR (measured) = 0.591 mW/g

**Hotspot Body Front 20175 25 RB 13 offset QPSK/Zoom Scan (5x5x7)/Cube 2:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 12.7 V/m; Power Drift = 0.090 dB  
 Peak SAR (extrapolated) = 0.762 W/kg  
**SAR(1 g) = 0.515 mW/g; SAR(10 g) = 0.323 mW/g**  
 Maximum value of SAR (measured) = 0.551 mW/g



0 dB = 0.551mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:  
- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14  
- Sensor-Surface: 4mm (Mechanical Surface Detection)  
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01  
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Left side QPSK 1 RB 0 offset 20175/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.353 mW/g

**Hotspot Left side QPSK 1 RB 0 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

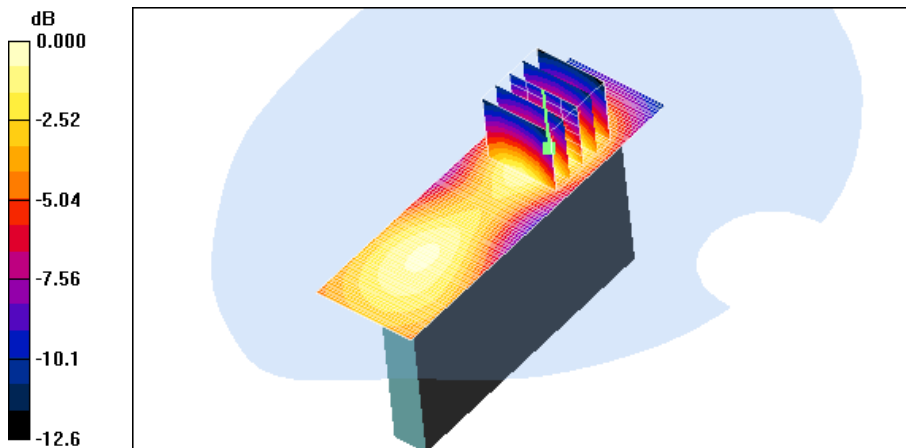
Reference Value = 16.6 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.426 W/kg

**SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.200 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.342 mW/g



0 dB = 0.342mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Left side QPSK 1 RB 49 offset 20175/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.315 mW/g

**Hotspot Left side QPSK 1 RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

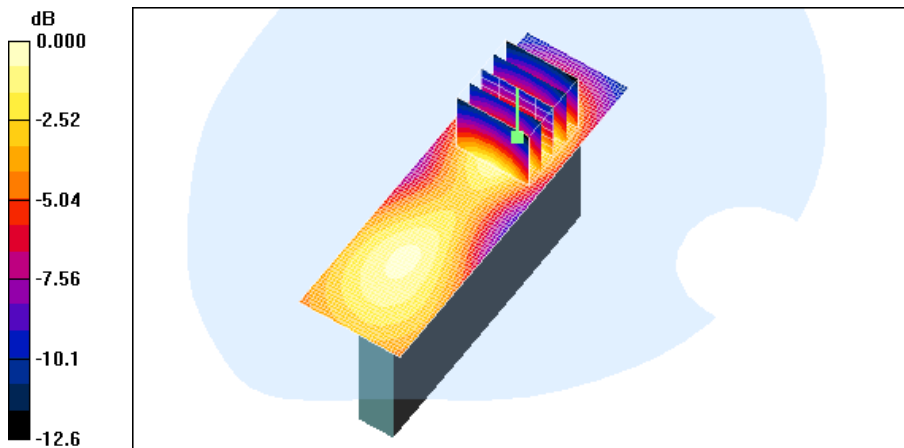
Reference Value = 15.6 V/m; Power Drift = 0.003 dB

Peak SAR (extrapolated) = 0.381 W/kg

**SAR(1 g) = 0.278 mW/g; SAR(10 g) = 0.177 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.306 mW/g



0 dB = 0.306mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Left side QPSK 25 RB 13 offset 20175/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.262 mW/g

**Hotspot Left side QPSK 25 RB 13 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

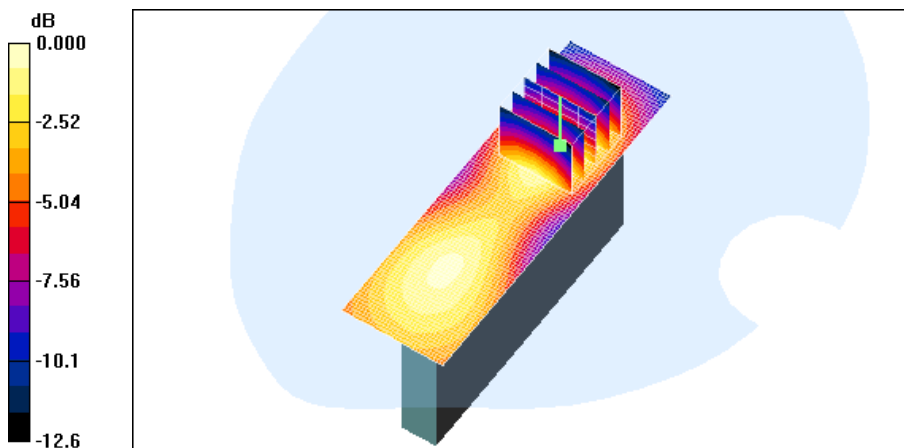
Reference Value = 14.3 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.319 W/kg

**SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.149 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.255 mW/g



0 dB = 0.255mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8  
Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Right side QPSK 1 RB 0 offset 20175/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.385 mW/g

**Hotspot Right side QPSK 1 RB 0 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

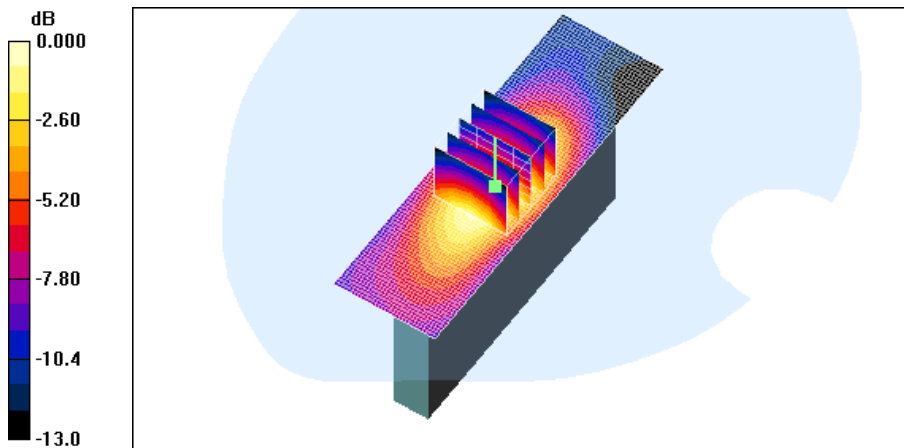
Reference Value = 9.32 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 0.463 W/kg

**SAR(1 g) = 0.332 mW/g; SAR(10 g) = 0.209 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.363 mW/g



0 dB = 0.363mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Right side QPSK 1 RB 49 offset 20175/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.334 mW/g

**Hotspot Right side QPSK 1 RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

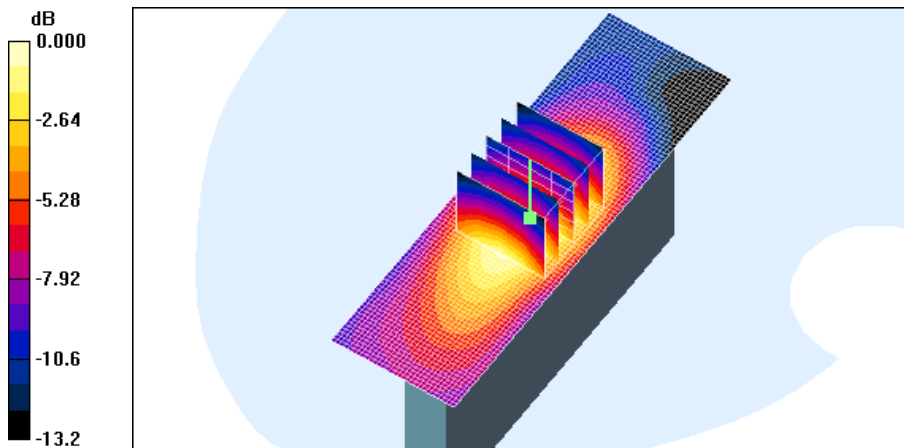
Reference Value = 8.75 V/m; Power Drift = -0.004 dB

Peak SAR (extrapolated) = 0.405 W/kg

**SAR(1 g) = 0.290 mW/g; SAR(10 g) = 0.182 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.318 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Right side QPSK 25 RB 13 offset 20175/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.285 mW/g

**Hotspot Right side QPSK 25 RB 13 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

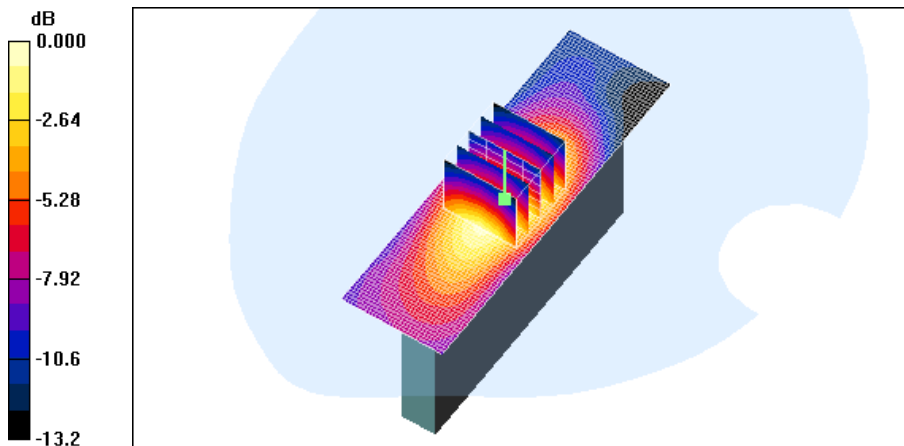
Reference Value = 7.98 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.338 W/kg

**SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.152 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.266 mW/g



0 dB = 0.266mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Bottom QPSK 1 RB 0 offset 20175/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.10 mW/g

**Hotspot Bottom QPSK 1 RB 0 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

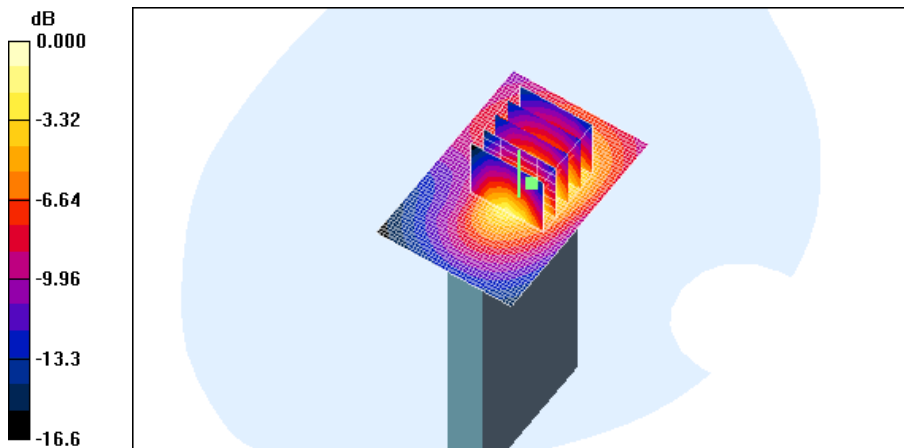
Reference Value = 26.7 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 1.44 W/kg

**SAR(1 g) = 0.988 mW/g; SAR(10 g) = 0.548 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.09 mW/g



0 dB = 1.09mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Bottom QPSK 1 RB 49 offset 20175/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.935 mW/g

**Hotspot Bottom QPSK 1 RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

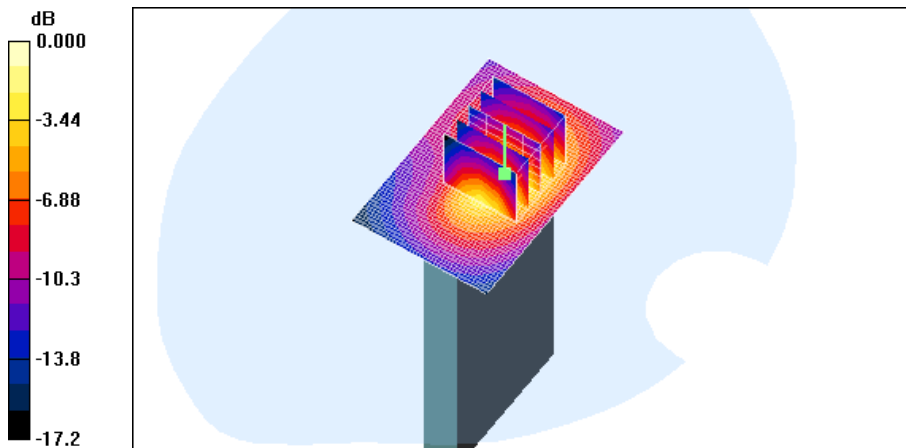
Reference Value = 24.8 V/m; Power Drift = -0.021dB

Peak SAR (extrapolated) = 1.36 W/kg

**SAR(1 g) = 0.911 mW/g; SAR(10 g) = 0.502 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.02 mW/g



0 dB = 1.02mW/g



Test Laboratory: HCT CO., LTD  
 EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
 Liquid Temperature: 21.2 °C  
 Ambient Temperature: 21.4 °C  
 Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1732.5 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 53.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Bottom QPSK 25 RB 13offset 20175/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.769 mW/g

**Hotspot Bottom QPSK 25 RB 13offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

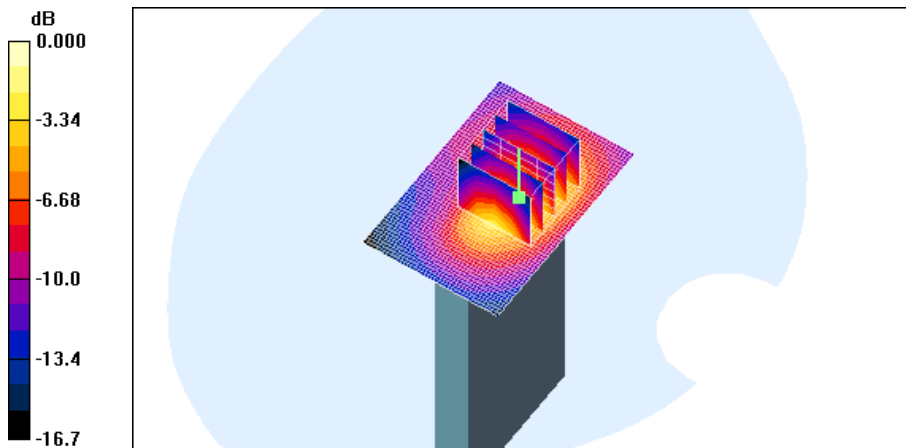
Reference Value = 22.2 V/m; Power Drift = -0.145 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.762 mW/g; SAR(10 g) = 0.420 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.882 mW/g



0 dB = 0.882mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Rear 20175 1 RB 0 offset 16QAM/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.635 mW/g

**Hotspot Body Rear 20175 1 RB 0 offset 16QAM/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

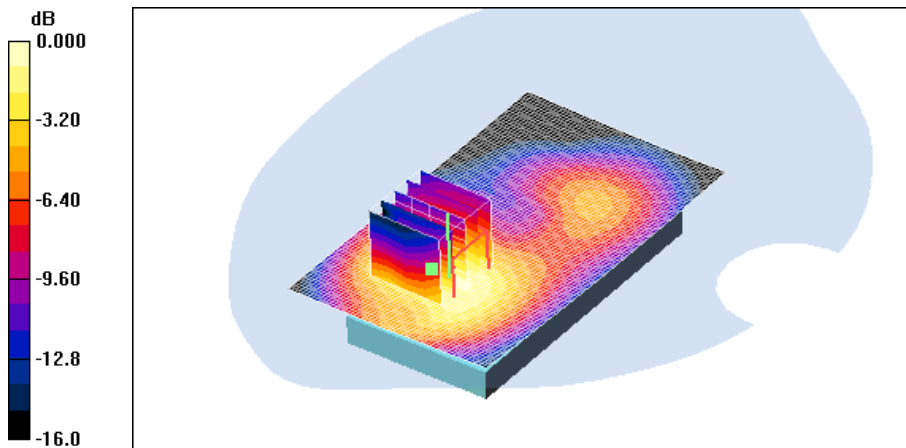
Reference Value = 11.7 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.916 W/kg

**SAR(1 g) = 0.653 mW/g; SAR(10 g) = 0.415 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.716 mW/g



0 dB = 0.716mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Rear 20175 1 RB 49 offset 16QAM/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.531 mW/g

**Hotspot Body Rear 20175 1 RB 49 offset 16QAM/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

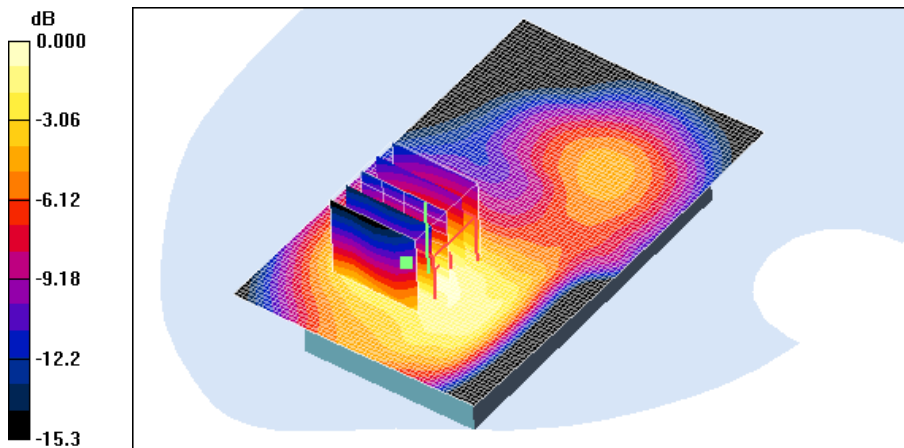
Reference Value = 11.2 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.720 W/kg

**SAR(1 g) = 0.510 mW/g; SAR(10 g) = 0.320 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.565 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Rear 20175 25 RB 13 offset 16QAM/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.501 mW/g

**Hotspot Body Rear 20175 25 RB 13 offset 16QAM/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

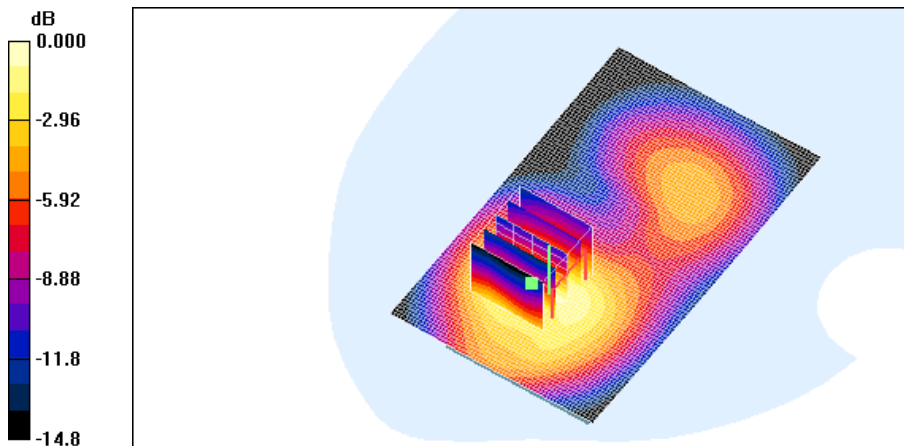
Reference Value = 10.8 V/m; Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.699 W/kg

**SAR(1 g) = 0.478 mW/g; SAR(10 g) = 0.298 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.520 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Front 20175 1 RB 0 offset 16QAM/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.586 mW/g

**Hotspot Body Front 20175 1 RB 0 offset 16QAM/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

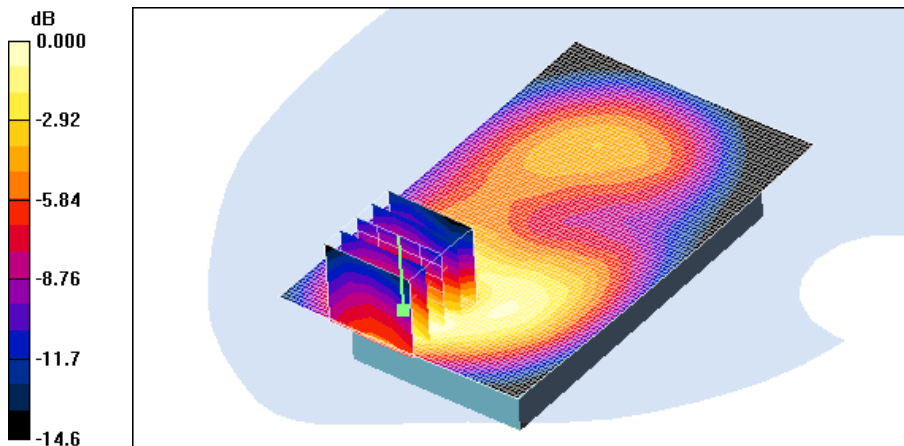
Reference Value = 12.6 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 0.708 W/kg

**SAR(1 g) = 0.503 mW/g; SAR(10 g) = 0.296 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.572 mW/g



0 dB = 0.572mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Front 20175 1 RB 49 offset 16QAM/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.534 mW/g

**Hotspot Body Front 20175 1 RB 49 offset 16QAM/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

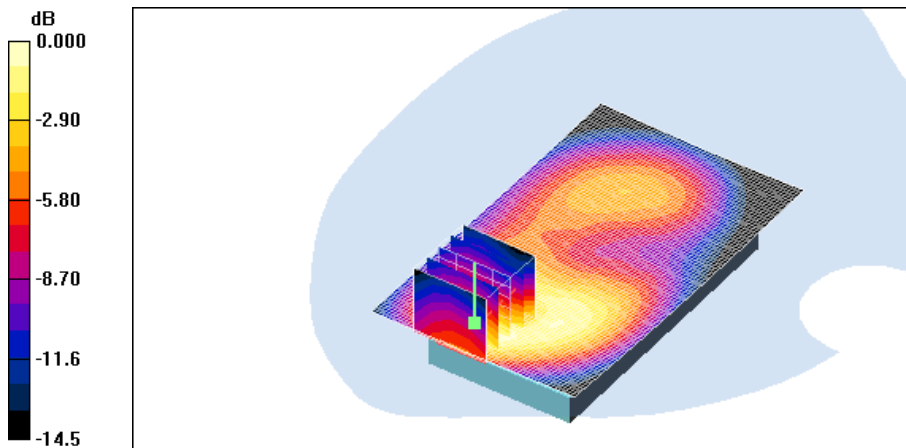
Reference Value = 12.3 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 0.653 W/kg

**SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.275 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.533 mW/g



0 dB = 0.533mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Front 20175 25 RB 13 offset 16QAM/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.420 mW/g

**Hotspot Body Front 20175 25 RB 13 offset 16QAM/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

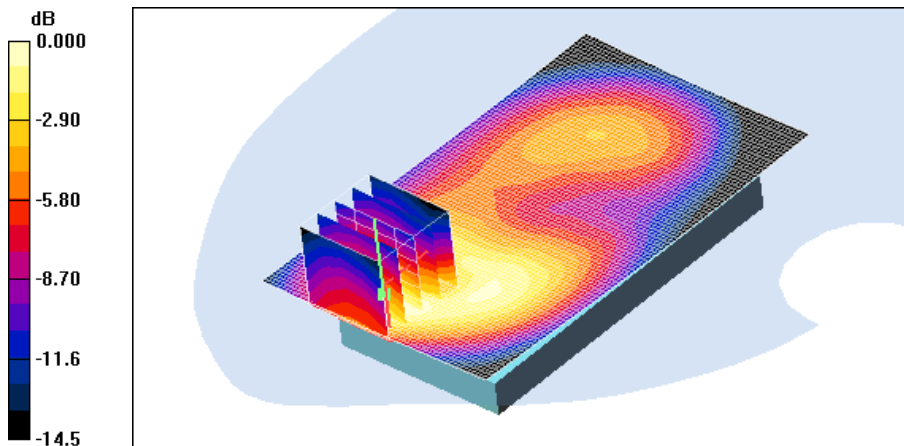
Reference Value = 10.8 V/m; Power Drift = -0.070 dB

Peak SAR (extrapolated) = 0.511 W/kg

**SAR(1 g) = 0.363 mW/g; SAR(10 g) = 0.214 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.414 mW/g



0 dB = 0.414mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Left side 16QAM 1 RB 0 offset 20175/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.272 mW/g

**Hotspot Left side 16QAM 1 RB 0 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

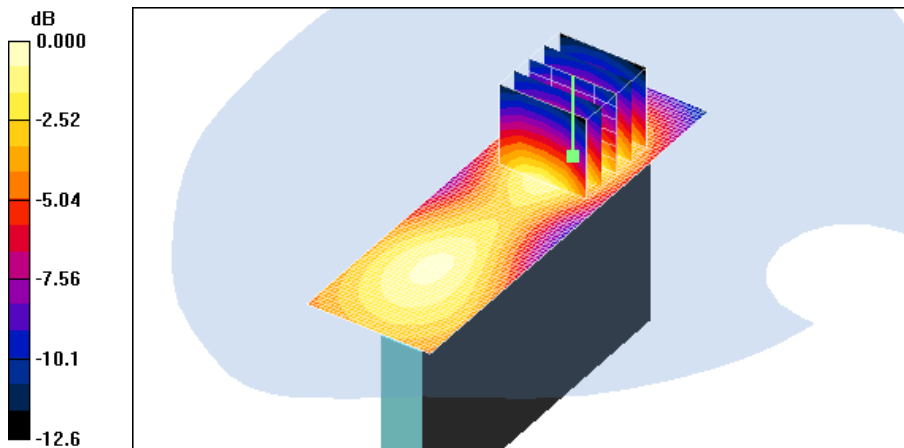
Reference Value = 14.5 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.322 W/kg

**SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.151 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.261 mW/g



0 dB = 0.261mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Left side 16QAM 1 RB 49 offset 20175/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.244 mW/g

**Hotspot Left side 16QAM 1 RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

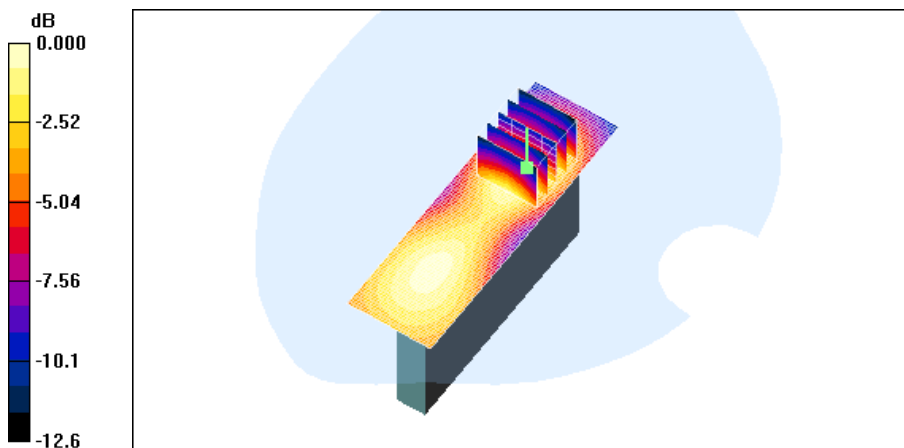
Reference Value = 13.7 V/m; Power Drift = -0.024dB

Peak SAR (extrapolated) = 0.268 W/kg

**SAR(1 g) = 0.202 mW/g; SAR(10 g) = 0.129 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.221 mW/g



0 dB = 0.221mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Left side 16QAM 25 RB 13offset 20175/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.223 mW/g

**Hotspot Left side 16QAM 25 RB 13offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

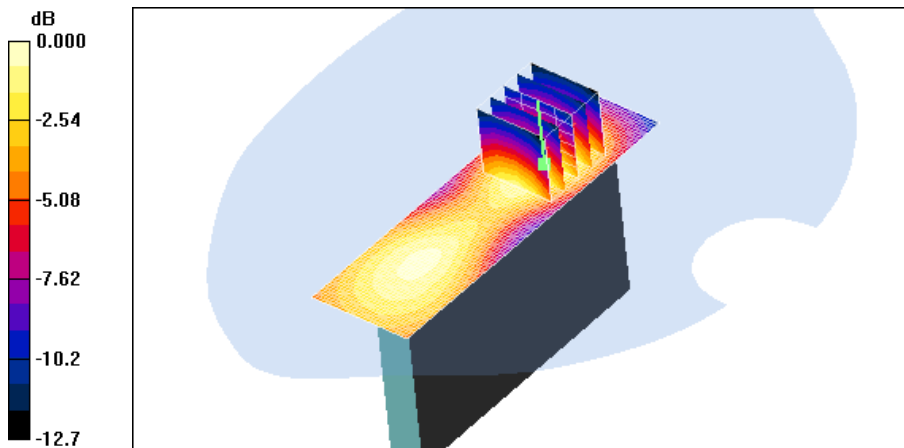
Reference Value = 13.1 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 0.269 W/kg

**SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.126 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.215 mW/g



0 dB = 0.215mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 53.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Right side 16QAM 1 RB 0 offset 20175/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.302 mW/g

**Hotspot Right side 16QAM 1 RB 0 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

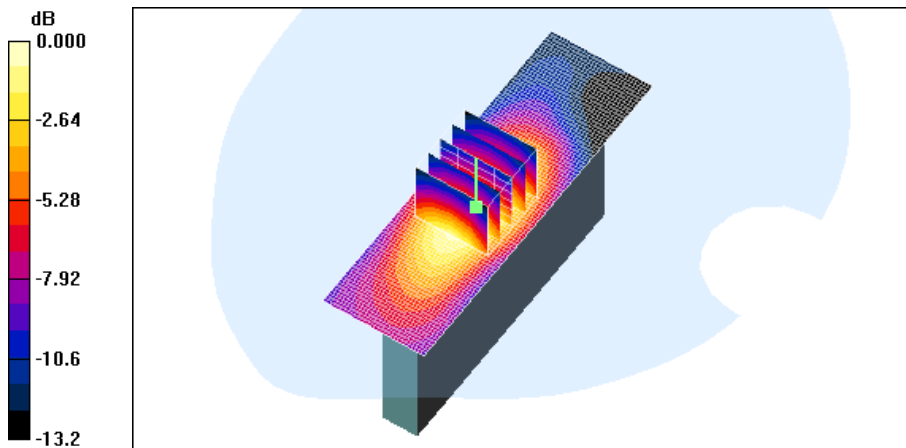
Reference Value = 7.04 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 0.359 W/kg

**SAR(1 g) = 0.257 mW/g; SAR(10 g) = 0.161 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.284 mW/g



0 dB = 0.284mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Right side 16QAM 1 RB 49 offset 20175/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.259 mW/g

**Hotspot Right side 16QAM 1 RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

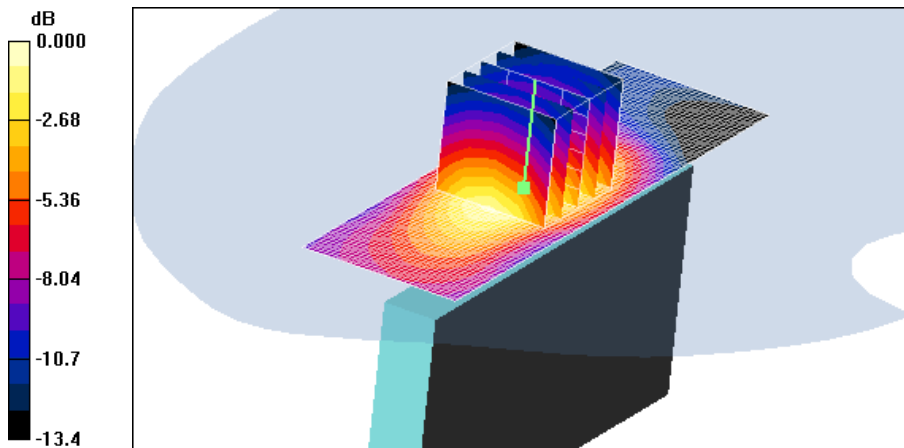
Reference Value = 6.60 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.308 W/kg

**SAR(1 g) = 0.220 mW/g; SAR(10 g) = 0.138 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.241 mW/g



0 dB = 0.241mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Right side 16QAM 25 RB 13 offset 20175/Area Scan (31x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.229 mW/g

**Hotspot Right side 16QAM 25 RB 13 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

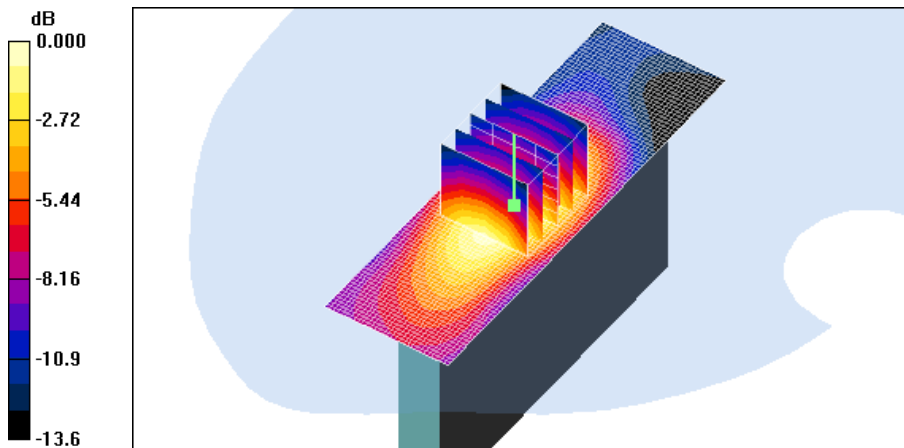
Reference Value = 6.16 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 0.272 W/kg

**SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.121 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.212 mW/g



0 dB = 0.212mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Bottom 16QAM 1 RB 0 offset 20175/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.742 mW/g

**Hotspot Bottom 16QAM 1 RB 0 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

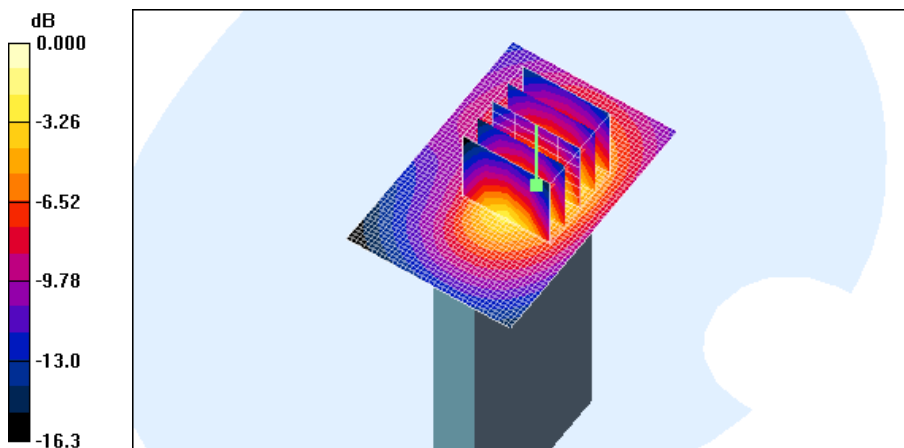
Reference Value = 21.7 V/m; Power Drift = -0.127 dB

Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.735 mW/g; SAR(10 g) = 0.407 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.849 mW/g



0 dB = 0.849mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Bottom 16QAM 1 RB 49 offset 20175/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.699 mW/g

**Hotspot Bottom 16QAM 1 RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

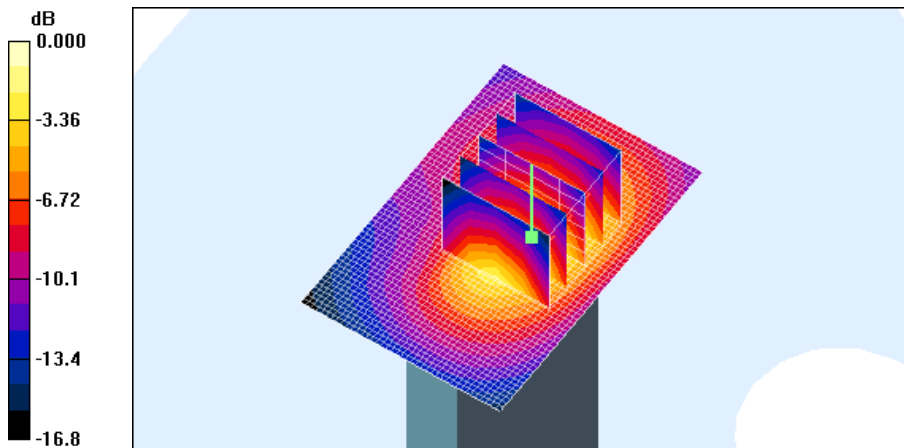
Reference Value = 20.9 V/m; Power Drift = -0.139 dB

Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.681 mW/g; SAR(10 g) = 0.378 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.785 mW/g



0 dB = 0.785mW/g

Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Bottom 16QAM 25RB 13 offset 20175/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.886 mW/g

**Hotspot Bottom 16QAM 25RB 13 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

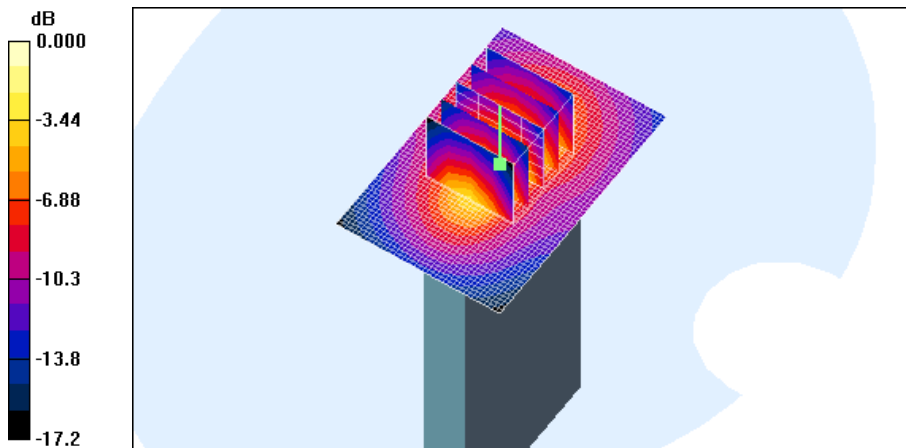
Reference Value = 26.4 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.763 mW/g; SAR(10 g) = 0.411 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.911 mW/g



0 dB = 0.911mW/g



Test Laboratory: HCT CO., LTD  
 EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
 Liquid Temperature: 21.3 °C  
 Ambient Temperature: 21.5 °C  
 Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3  
 Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8  
 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 800/900 Phantom; Type: SAM

**Left touch 190/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.657 mW/g

**Left touch 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.11 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.752 W/kg

**SAR(1 g) = 0.611 mW/g; SAR(10 g) = 0.460 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.643 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.15  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 190/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.842 mW/g

**Hotspot Body Rear 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

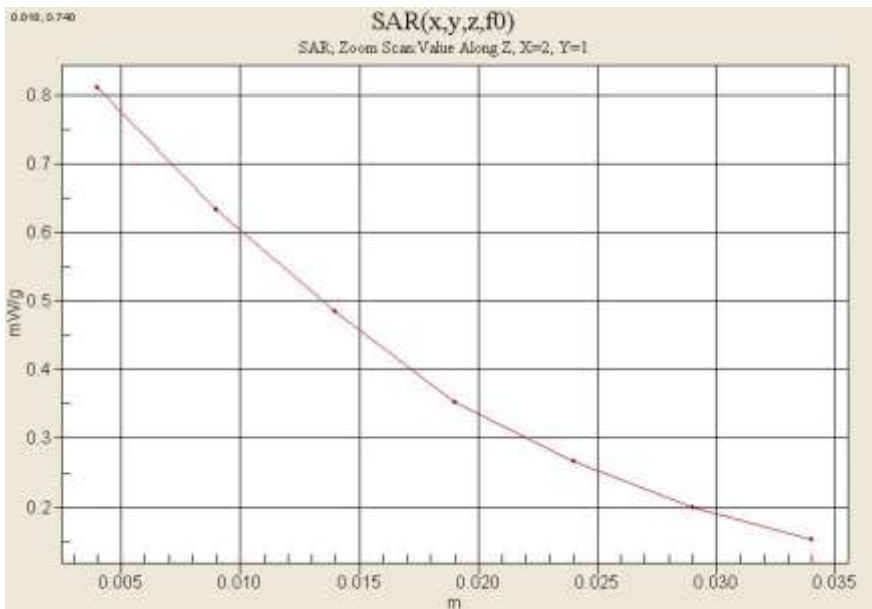
Reference Value = 19.6 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.934 W/kg

**SAR(1 g) = 0.757 mW/g; SAR(10 g) = 0.561 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.811 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Left touch 661/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.687 mW/g

**Left touch 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 8.96 V/m; Power Drift = -0.194 dB  
Peak SAR (extrapolated) = 0.936 W/kg  
**SAR(1 g) = 0.618 mW/g; SAR(10 g) = 0.367 mW/g**  
Maximum value of SAR (measured) = 0.684 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Bottom 661/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.872 mW/g

**Hotspot Body Bottom 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 24.4 V/m; Power Drift = 0.185 dB  
Peak SAR (extrapolated) = 1.32 W/kg  
**SAR(1 g) = 0.760 mW/g; SAR(10 g) = 0.392 mW/g**  
Maximum value of SAR (measured) = 0.877 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.902$  mho/m;  $\epsilon_r = 43$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Left touch 4183/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.796 mW/g

**Left touch 4183/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.44 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.748 mW/g; SAR(10 g) = 0.513 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.806 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.952$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 4183/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.761 mW/g

**Hotspot Body Rear 4183/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.0 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.880 W/kg

**SAR(1 g) = 0.727 mW/g; SAR(10 g) = 0.539 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.773 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(5.24, 5.24, 5.24); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Left touch 9400/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.47 mW/g

**Left touch 9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 12.5 V/m; Power Drift = -0.074 dB  
Peak SAR (extrapolated) = 2.05 W/kg  
**SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.791 mW/g**  
Maximum value of SAR (measured) = 1.50 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.01, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: WCDMA1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.63, 4.63, 4.63); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Hotspot Body Bottom 9538/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.38 mW/g

**Hotspot Body Bottom 9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.0 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 1.94 W/kg

**SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.662 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.32 mW/g





Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: 2450MHz FCC; Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.76$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.56, 4.56, 4.56); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Right touch 6/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.300 mW/g

**Right touch 6/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

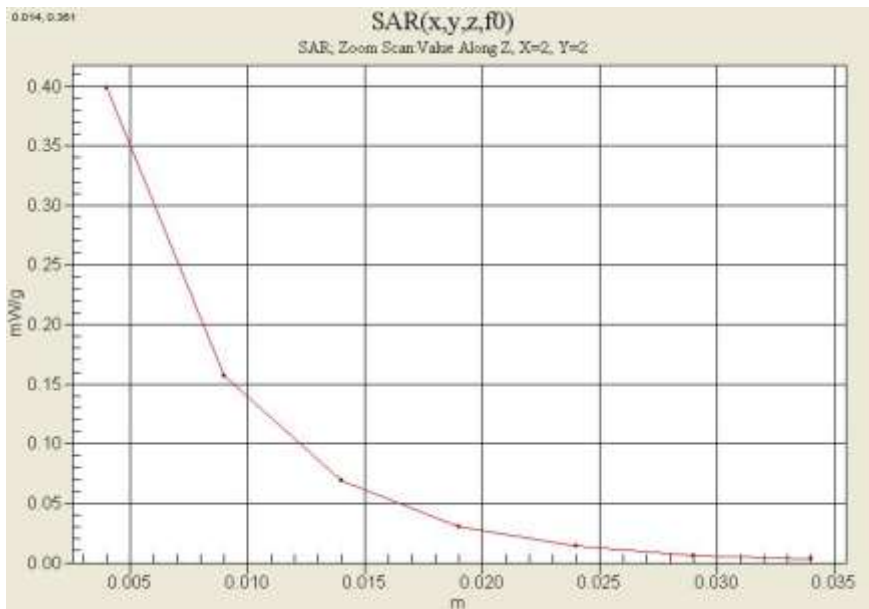
Reference Value = 4.82 V/m; Power Drift = 0.139 dB

Peak SAR (extrapolated) = 0.898 W/kg

**SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.140 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.398 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Jul.28, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: 2450MHz FCC; Frequency: 2437 MHz;Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(4.21, 4.21, 4.21); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 6ch/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.342 mW/g

**Hotspot Body Rear 6ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

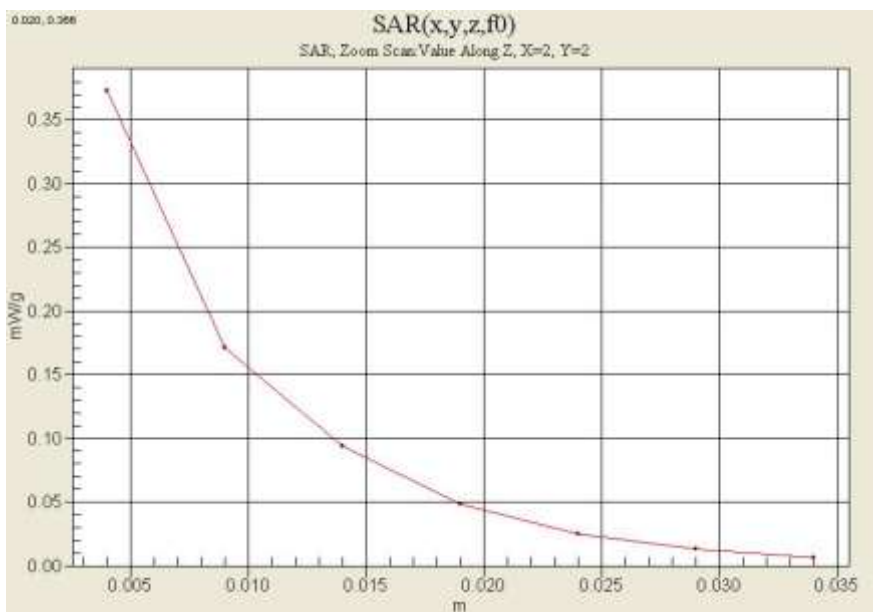
Reference Value = 5.60 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.938 W/kg

**SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.164 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.373 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.2 °C  
Ambient Temperature: 21.4 °C  
Test Date: Aug.03, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.877 \text{ mho/m}$ ;  $\epsilon_r = 42.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.94, 6.94, 6.94); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch QPSK1RB 49 offset 23790/Area Scan (61x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.569 mW/g

**Right touch QPSK1RB 49 offset 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.53 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 0.754 W/kg

**SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.420 mW/g**

Maximum value of SAR (measured) = 0.572 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.02, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE ; Frequency: 710 MHz;Duty Cycle: 1:1  
Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.933$  mho/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.79, 6.79, 6.79); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 1RB 0 offset QPSK 23790/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.618 mW/g

**Hotspot Body Rear 1RB 0 offset QPSK 23790/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.899 W/kg

**SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.433 mW/g**

Maximum value of SAR (measured) = 0.631 mW/g

**Hotspot Body Rear 1RB 0 offset QPSK 23790/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.990 W/kg

SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.399 mW/g

Maximum value of SAR (measured) = 0.635 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Aug.04, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.912$  mho/m;  $\epsilon_r = 43.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.72, 6.72, 6.72); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch QPSK 1 RB 0 offset 20525/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.747 mW/g

**Left touch QPSK 1 RB 0 offset 20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.37 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 0.878 W/kg

**SAR(1 g) = 0.698 mW/g; SAR(10 g) = 0.516 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.734 mW/g



Test Laboratory: HCT CO., LTD  
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
Liquid Temperature: 21.3 °C  
Ambient Temperature: 21.5 °C  
Test Date: Jul.29, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.951$  mho/m;  $\epsilon_r = 55.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

## DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(6.5, 6.5, 6.5); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: SAM 835/900 MHz; Type: SAM

**Hotspot Body Rear 20525 1 RB 0 offset QPSK /Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.618 mW/g

**Hotspot Body Rear 20525 1 RB 0 offset QPSK /Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.8 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.724 W/kg

**SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.440 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.629 mW/g

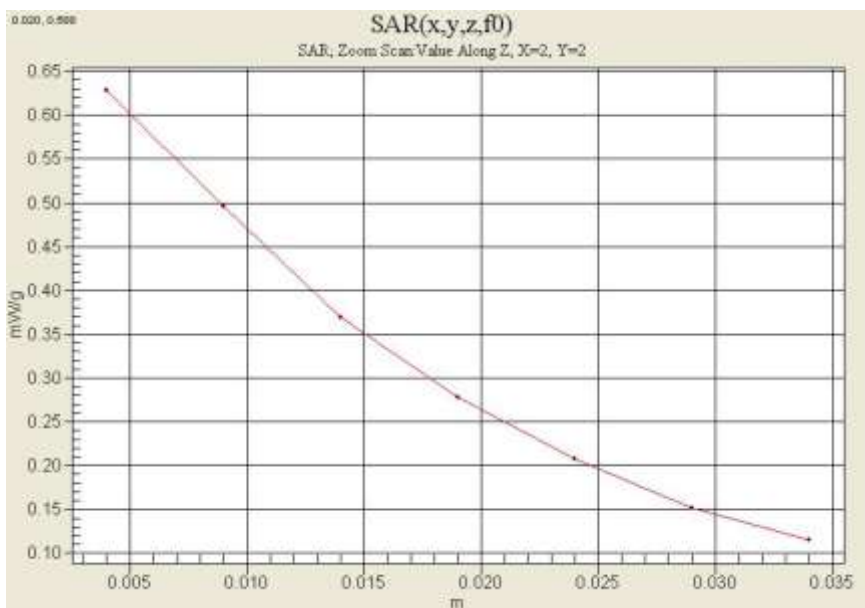
**Hotspot Body Rear 20525 1 RB 0 offset QPSK/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.8 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.747 W/kg

**SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.322 mW/g**

Maximum value of SAR (measured) = 0.537 mW/g



Test Laboratory: HCT CO., LTD  
 EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
 Liquid Temperature: 21.3 °C  
 Ambient Temperature: 21.5 °C  
 Test Date: Aug.05, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

- DASY4 Configuration:
- Probe: ET3DV6 - SN1798; ConvF(5.46, 5.46, 5.46); Calibrated: 2011-04-14
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn466; Calibrated: 2011-03-01
  - Phantom: 835/900 Phantom ; Type: SAM

**Left touch QPSK 1 RB 49 offset 20175/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.700 mW/g

**Left touch QPSK 1 RB 49 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

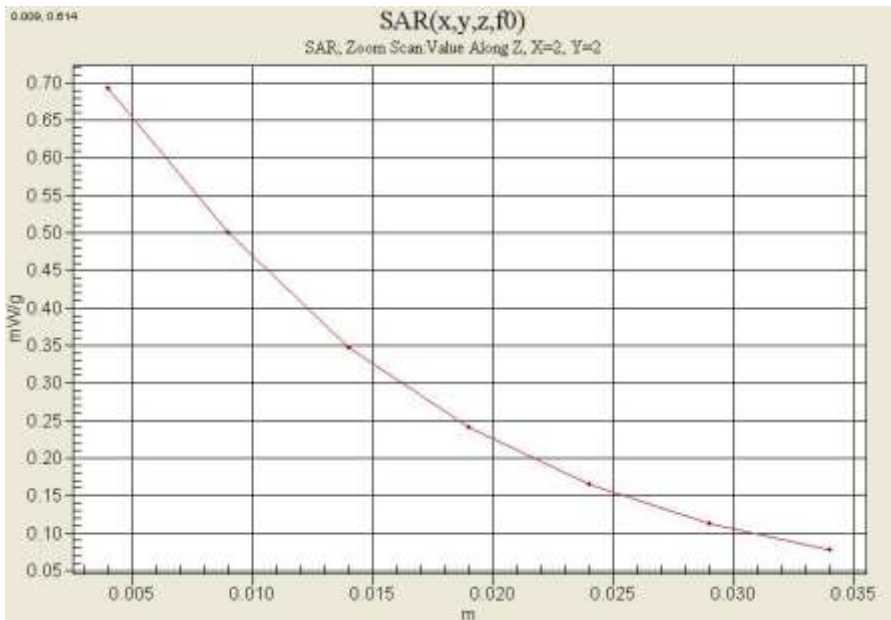
Reference Value = 8.48 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.872 W/kg

**SAR(1 g) = 0.631 mW/g; SAR(10 g) = 0.397 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.693 mW/g





Test Laboratory: HCT CO., LTD  
 EUT Type: GSM/WCDMA/LTE Phone with Bluetooth and WLAN  
 Liquid Temperature: 21.2 °C  
 Ambient Temperature: 21.4 °C  
 Test Date: Jul.26, 2011

**DUT: P9070; Type: Bar; Serial: #1**

Communication System: LTE Band 4; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 1732.5 \text{ MHz}$ ;  $\sigma = 1.44 \text{ mho/m}$ ;  $\epsilon_r = 53.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ET3DV6 - SN1798; ConvF(4.84, 4.84, 4.84); Calibrated: 2011-04-14
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2011-03-01
- Phantom: 1800/1900 Phantom; Type: SAM

**Hotspot Bottom QPSK 1 RB 0 offset 20175/Area Scan (41x61x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.10 mW/g

**Hotspot Bottom QPSK 1 RB 0 offset 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.7 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 1.44 W/kg

**SAR(1 g) = 0.988 mW/g; SAR(10 g) = 0.548 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.09 mW/g

