

TEST REPORT

Equipment Under Test:	HSDPA USB Modem
Market name:	MF626
FCC ID	Q78-ZTEMF626
Hardware Version:	P673M3-2.0.0
Software Version:	BD_P673M3V1.0.0B05
Applicant:	ZTE CORPORATION
Address of Applicant:	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China
Date of Receipt:	2008.09.27
Date of Test:	2008.09.27 ~ 2008.10.21
Date of Issue:	2008.12.24



Tested by : Wili Ni Date : 2008.12.24
 Approved by : Zhang Shen Date : 2008.12.24

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Change History

Version	Change contents	Author	Date
V1.0	First edition	Will Ni	2008-10-1
V1.1	Update system validation	Will Ni	2008-10-21
V1.2	Revise DUT setup description. Revise system uncertainty. Revise Maximum output power for WCDMA/HSDPA.	Will Ni	2008-12-24

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Standards:

The Equipment under Test (EUT) has been tested at SGS's (own or subcontracted) laboratories. The following table summarizes the specific reference documents such as harmonized standards or test specifications which were used for testing as SGS's (own or subcontracted) laboratories.

Identity	Document Title	Version
FCC OET Bulletin 65 supplement C	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields	
IEEE1528	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques	2003

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1. General Information

1.1 Test Laboratory

GSM Laboratory

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Fax:

+86 (0) 21 5450 0149

Internet:

<http://www.cn.sgs.com>

1.2 Details of Applicant

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 518057, P.R.China

Contact Person:

Li Dezi

1.3 Description of EUT(s)

Brand name	ZTE	
Market Name	MF626	
Status of Product	Production	
Hardware Version	P673M3-2.0.0	
Software Version	BD_P673M3V1.0.0B05	
Serial No.	IMEI: 004401780172025	
Battery Type	USB /No Battery	
Antenna Type	Inner Antenna	
Operation Mode	GSM/GPRS/EDGE/WCDMA/HSDPA	
Modulation Mode	GMSK/8PSK/QPSK	
Frequency range	GSM850	Tx: 824~849 MHz
		Rx: 869~894 MHz
	PCS1900	Tx: 1850~1910 MHz
		Rx: 1930~1990 MHz

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	WCDMA FDD Band II	Tx: 1850~1910 MHz Rx: 1930~1990 MHz
	WCDMA FDD Band V	Tx: 824~849 MHz Rx: 869~894MHz
Nominal Maximum RF Conducted Power/MS Power Class	GSM850:GMSK/33.0dBm;8PSK/27.0dBm PCS1900: GMSK/30.0dBm;8PSK/26.0dBm WCDMA1900: 24.0dBm WCDMA850: 24.0dBm	

1.4 Test Environment

Ambient temperature: 22.0° C

Tissue Simulating Liquid: 22.0° C

Relative Humidity: 45%~55%

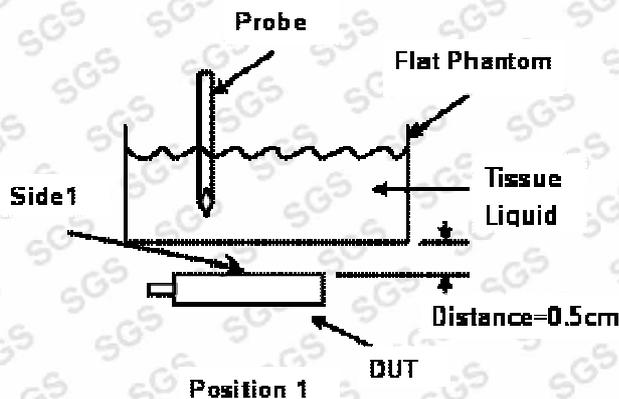
1.5 Operation Configuration

Configuration 1: GSM 850, BodyWorn P1&P2&P3&P4&P5 0.5cm

Configuration 2: PCS 1900, BodyWorn P1&P2&P3&P4&P5 0.5cm

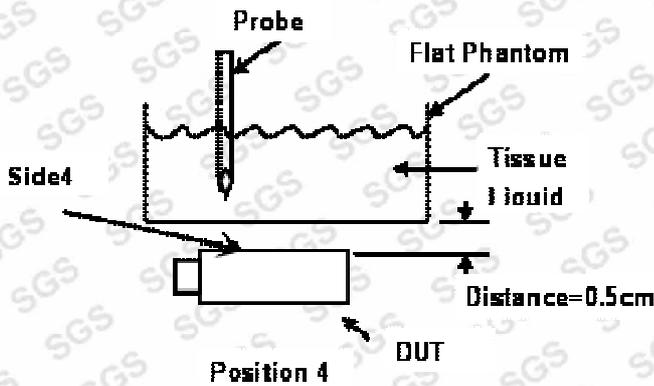
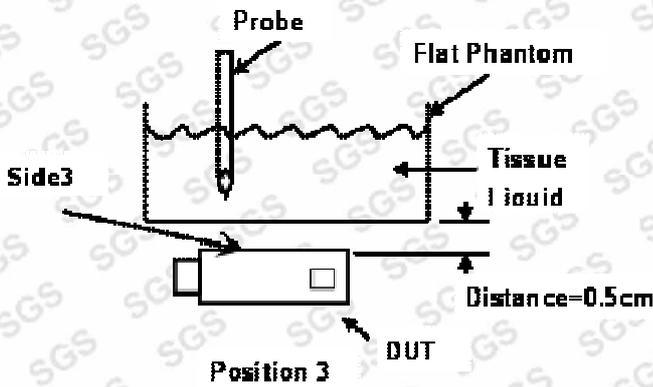
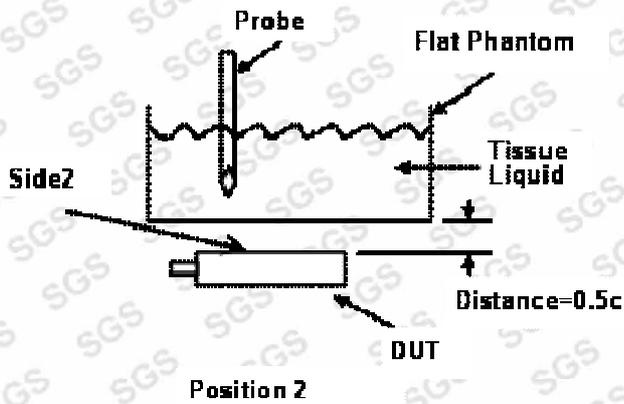
Configuration 3: WCDMA FDD II, BodyWorn P1&P2&P3&P4&P5 0.5cm

Configuration 4: WCDMA FDD V, BodyWorn P1&P2&P3&P4&P5 0.5cm

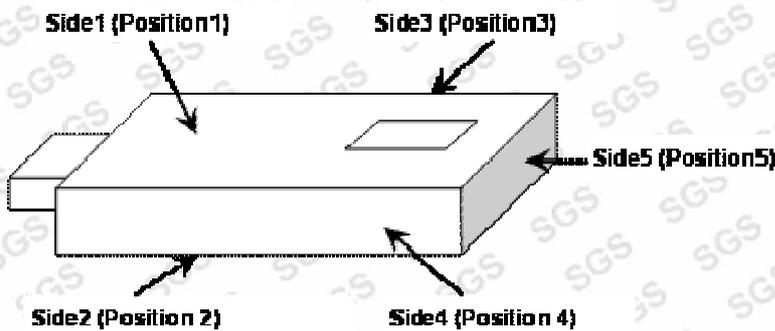
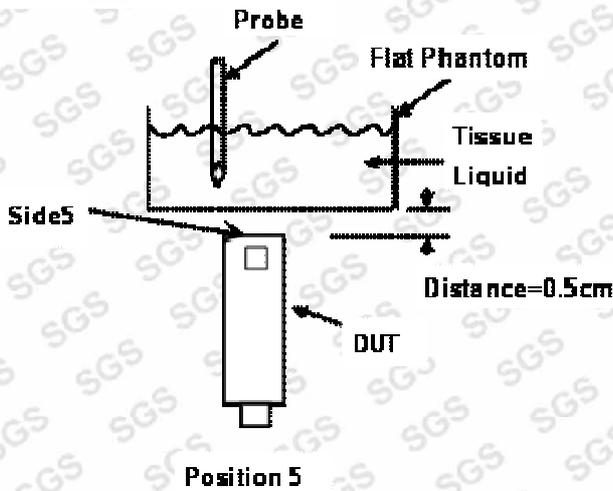


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Each testing side is corresponding to a test position as defined above

Note: Each of the five surfaces is tested toward the flat phantom with a 0.5cm distance.

A USB cable was used during the tests in accordance with FCC guidance;

The USB cable implemented to the USB dongle is with the length about 25cm (10 inches) and both the maximum output power with USB cable and directly to a laptop are verified and the discrepancies are insignificant.

For SS

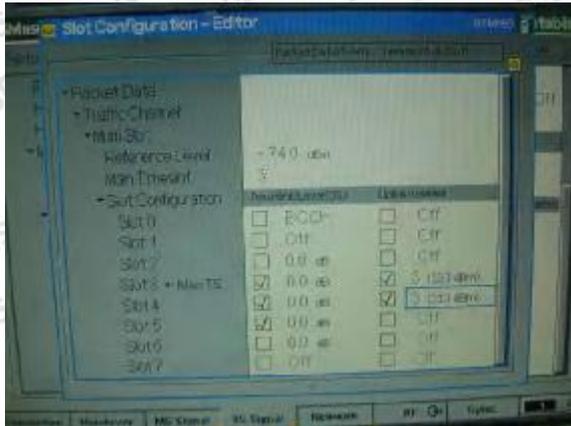
The device was put into operation by using CMU200 radio tester through air link.

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The device output power was set to maximum power level for each test with filled battery.

The measurements were performed on lowest, middle and highest channels.

In GPRS mode

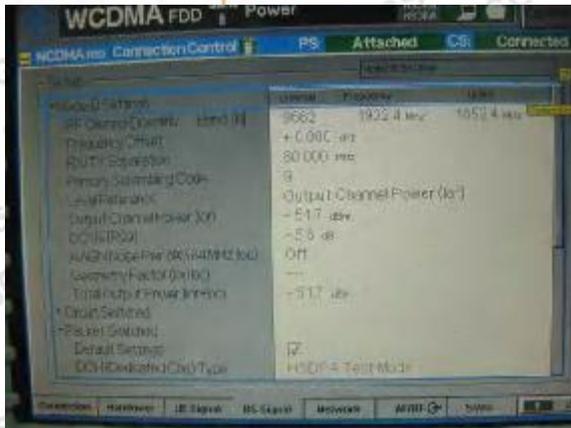


In EDGE 8PSK mode

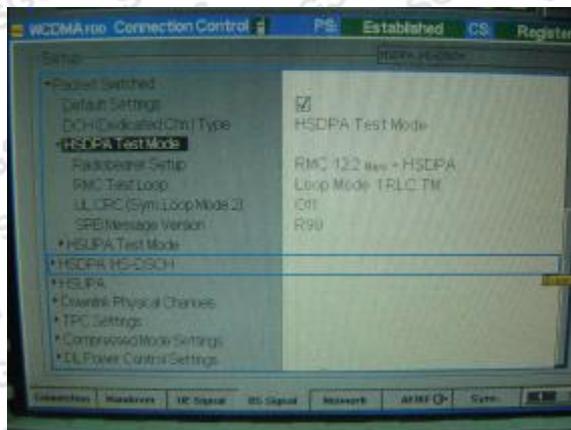


In WCDMA mode (12.2 kbps RMC with TPC set to all 1)

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In HSDPA mode



1.6 SAM Twin Phantom



The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

- Left hand

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- Right hand
- Flat phantom

A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on the cover are possible.

On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

Phantom specification:

Construction:	The shell corresponds to the specifications of Specific Anthropomorphic Mannequin(SAM) Phantom defined in IEEE 1528-2003,EN 50361:2001 and IEC 62209.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.
Shell Thickness	2±0.2mm
Filling Volume	Approx.25 liters
Dimensions	Height: 850mm Length: 1000mm Width: 500mm

1.7 Device Holder for Transmitters



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source in 5mm distance, a positioning uncertainty of ±0.5mm would produce a SAR uncertainty of ±20%. An accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions, in which the devices must be measured, are defined by the standards.

The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centers for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon_r=3$ and loss tangent $\tan \delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the

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influence of the clamp on the test results could thus be lowered.

1.8 Description of Test Position

1.8.1 SAM Phantom Shape



Figure 1—front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only—procedures in this recommended practice are intended primarily for the phantom setup of Figure 2. Note: The center strip including the nose region has a different thickness tolerance.

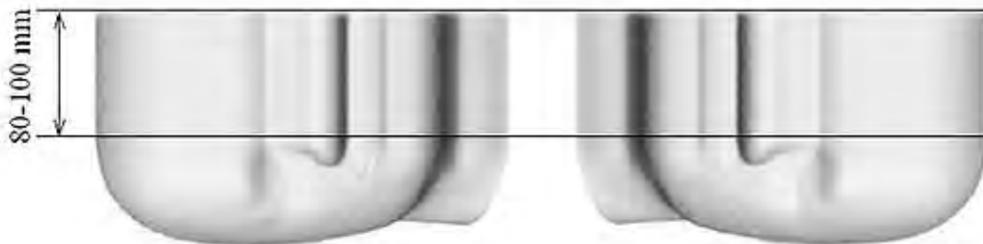


Figure 2—Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)

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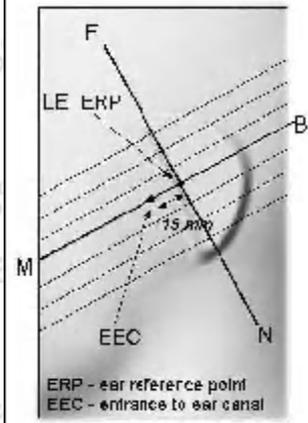


Figure 3—Close-up side view of phantom showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

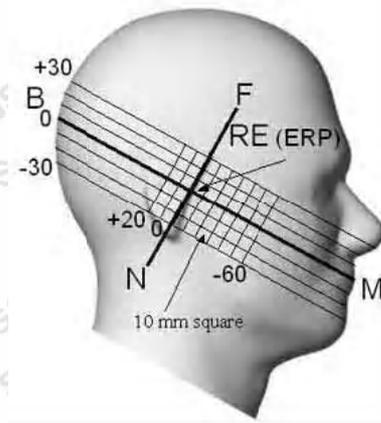


Figure 4—Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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1.8.2 The following pictures present the different DUT constructions.

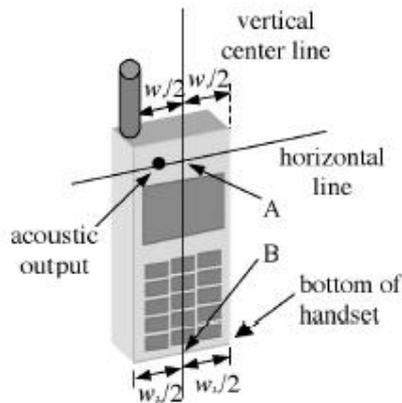


Figure 5a—Handset vertical and horizontal reference lines—“fixed case”

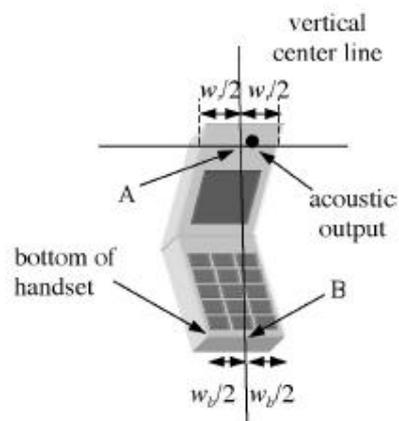


Figure 5b—Handset vertical and horizontal reference lines—“clam-shell case”

1.8.3 Definition of the “cheek” position:

- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position” see Figure 6). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE;
- b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until the phone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.

1.8.4 Definition of the “tilted” position:

- a) Position the device in the “cheek” position described above;
- b) While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

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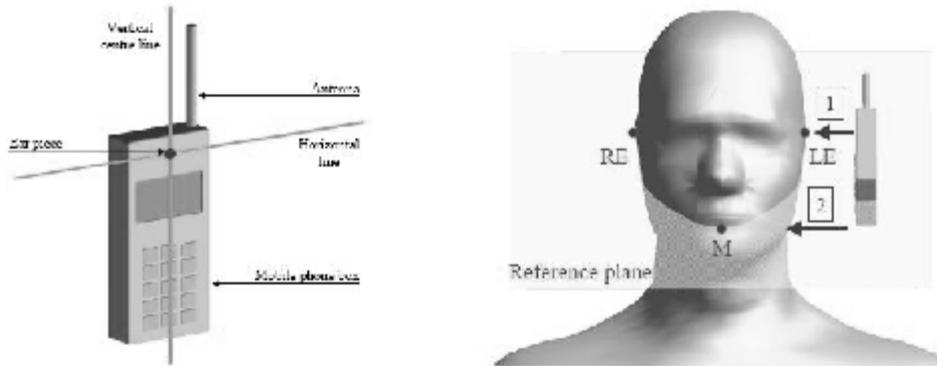


Figure 6 - Definition of the reference lines and points, on the phone and on the phantom and initial position

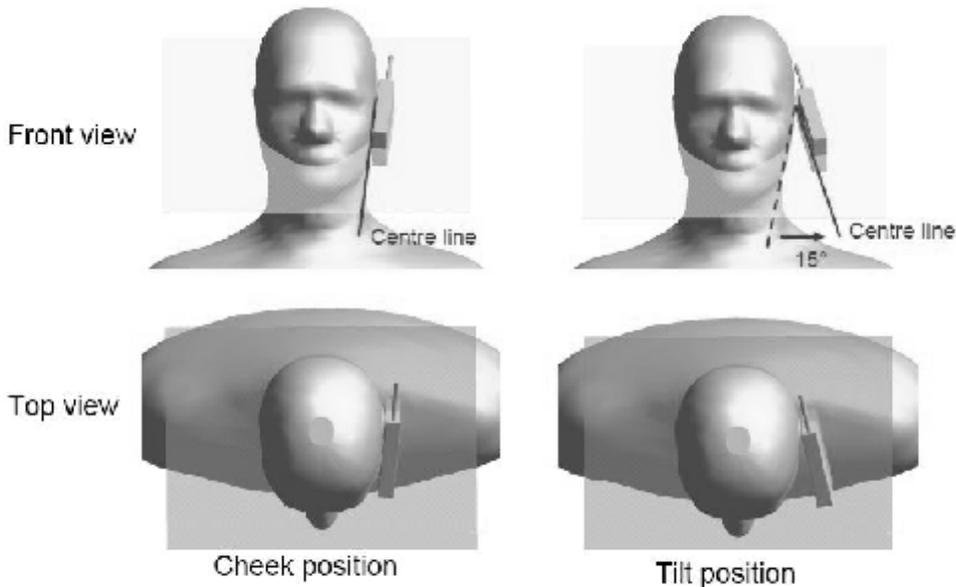


Figure 7 -“Cheek” and “tilt” positions of the mobile phone on the left side

1.9 Recipes for Tissue Simulating Liquid

The following tables give the recipes for tissue simulating liquids to be used in different frequency bands.

Ingredient	835MHz	1900MHz
Water	40.29%	55.24%
Sugar	57.90%	-

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Salt (NaCl)	1.38%	0.31%
DGBE	-	44.45%
Preventol	0.18%	-
HEC	0.24%	-
Relative Permittivity	41.5	40.0
Conductivity (S/m)	0.90	1.40

Table 1: Composition of the Brain Tissue Equivalent Matter

Ingredient	835MHz	1900MHz
Water	50.75%	70.17%
Sugar	48.21%	-
Salt (NaCl)	0.94%	0.39%
DGBE	-	29.44%
Preventol	0.10%	-
HEC	0.00	-
Relative Permittivity	55.2	53.3
Conductivity (S/m)	0.97	1.52

Table 2: Composition of the Body Tissue Equivalent Matter

1.10 Measurement procedure

Step 1: Power reference measurement

The SAR measurement was taken at a selected spatial reference point to monitor power variations during testing. This fixed location point was measured and used as a reference value.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 3.9mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm. Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 30mm*30mm*34mm (fine resolution volume scan, zoom scan) was assessed by measuring 7*7*7 points. On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the center of the dipoles is 2.1mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification) 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. The maximum interpolated value was searched with a straight-forward algorithm. Around this

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maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points (10*10*10) were interpolated to calculate the average. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Power reference measurement (drift)

The SAR value at the same location as in step 1 was again measured. (If the value changed by more than 5%, the evaluation is repeated.)

1.11 The SAR Measurement System

A photograph of the SAR measurement System is given in Fig. a.

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (Speag Dasy 4 professional system). A Model ES3DV3 3088 E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E_i|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

The DASY4 system for performing compliance tests consists of the following items:

- Y A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).
- Y A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- Y A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- Y The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.

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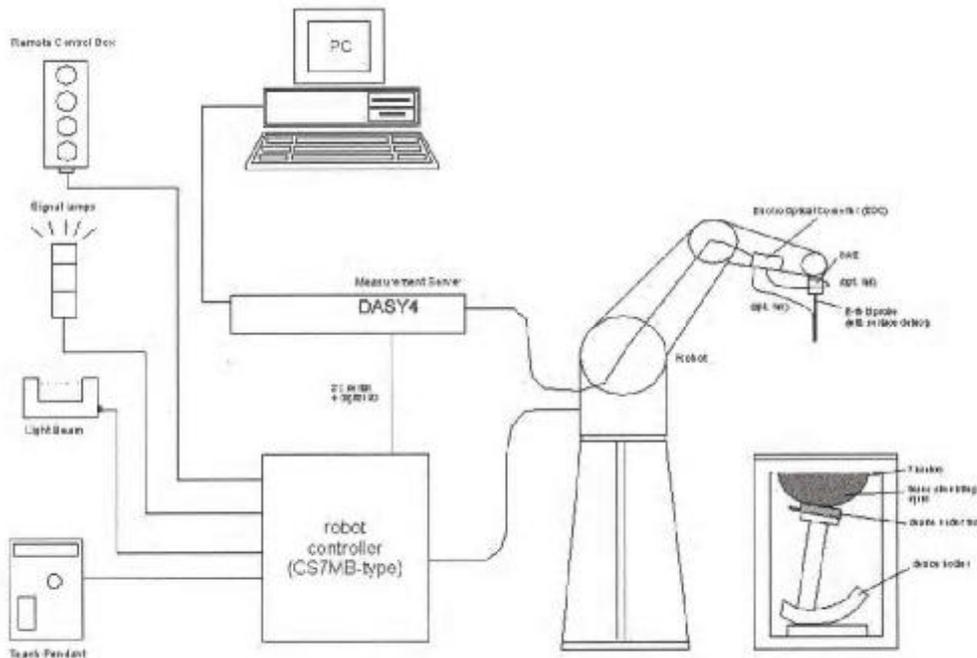


Fig. a SAR System Configuration

- Y The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- Y A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- Y A computer operating Windows 2000.
- Y DASY4 software.
- Y Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- Y The SAM twin phantom enabling testing left-hand, right-hand and body-worn usage.
- Y The device holder for handheld mobile phones.
- Y Tissue simulating liquid mixed according to the given recipes.
- Y Validation dipole kits allowing to validating the proper functioning of the system.

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1.12 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 900&1900MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the ambient temperature of the laboratory was in the range 22°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

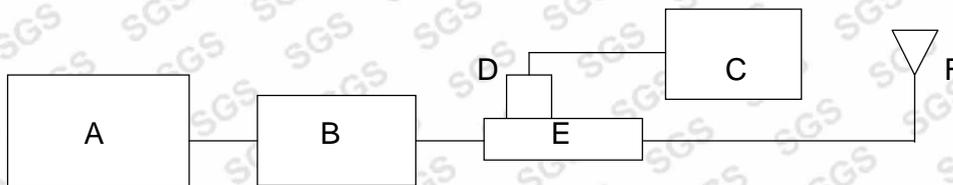


Fig. b the microwave circuit arrangement used for SAR system verification

- A. Agilent Model E4438C Signal Generator
- B. Mini-Circuit Model ZHL-42 Preamplifier
- C. Agilent Model E4416A Power Meter
- D. Agilent Model 8481H Power Sensor
- E. HT CP6100 20N Dual directional coupler
- F. Reference dipole antenna

Validation Kit	Frequency MHz	Target SAR 1g (250mW)	10% Limit Range	Measured SAR 1g	Measured Date
D900V2 184	900 Body	2.9	2.61~3.19	2.82	2008-09-27
				2.76	2008-09-28
D1900V2 5d028	1900 Body	9.34	8.41~10.27	8.51	2008-09-29
				8.78	2008-09-30
				9.26	2008-10-21

Table 1. Result System Validation

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1.13 Tissue Simulant Fluid for the Frequency Band 835MHZ and 1900MHZ

The dielectric properties for this body-simulant fluid were measured by using the HP Model 85070D Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Agilent E5071B Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in Table 1. For the SAR measurement given in this report. The temperature variation of the Tissue Simulant Fluid was 22°C.

Frequency (MHz)	Tissue Type	Limit/Measured	Permittivity (ρ)	Conductivity (σ)	Simulated Tissue Temp (°C)
835	Body	Recommended Limit	55.2±5%	0.97±5%	20-24
		Measured, 2008-09-27	55.0	0.97	22.2
		Measured, 2008-09-28	55.0	0.97	22.5
900	Body	Recommended Limit	55.0±5%	1.05±5%	20-24
		Measured, 2008-09-27	54.3	1.03	22.2
		Measured, 2008-09-28	54.3	1.03	22.5
1900	Body	Recommended Limit	53.3±5%	1.52±5%	20-24
		Measured, 2008-09-29	53.2	1.59	22.3
		Measured, 2008-09-30	53.2	1.59	22.6
		Measured, 2008-10-21	52.1	1.58	22.4

Table 2. Dielectric parameters for the Frequency Band 835&1900MHZ

1.14 Test Standards and Limits

Standards:

According to FCC 47 CFR §2.1093(d) the limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3KHz to 300GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical & Electronics Engineers, Inc., New York, New York 10071.

Human Exposure	Uncontrolled Environment General Population
Spatial Peak SAR	1.60 mW/g (averaged over a mass of 1g)

Table 3. RF Exposure Limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.

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2. Summary of Results

Maximum Conducted Power

Power(dBm)		Lowest Channel	Middle Channel	Highest Channel
GSM850	GPRS	32.3	32.9	32.9
	EDGE	26.5	26.9	26.5
PCS1900	GPRS	28.3	28.6	28.3
	EDGE	25.9	25.9	25.8

Mode		HSDPA (Note1)				WCDMA
Sub-tests		1	2	3	4	
Band	Channel	Power(dBm)	Power(dBm)	Power(dBm)	Power(dBm)	Power(dBm)
850	4132	23.21	22.90	22.33	21.53	23.23
	4182	23.02	22.72	22.10	21.41	23.06
	4233	23.39	23.08	22.51	21.59	23.32
1900	12	21.99	21.68	20.31	20.30	22.03
	9400	21.43	21.05	19.92	19.50	21.45
	9538	21.36	20.77	20.20	19.85	21.43
β_c		2	12	15	15	
β_d		15	15	8	4	
$\Delta_{ACK}, \Delta_{NACK}, \Delta_{CQI}$		8	8	8	8	
CM (dB)		0.0	1.0	1.5	1.5	
MPR (dB) (Note2)		0.0	0.0	0.5	0.5	

Note1: This is a category 6 HSDPA data device operating under 3GPP Release5.

Note2: This is applicable for only UEs that support HSDPA in release 6 and later releases

GSM850

850	Test Configuration		SAR, Averaged over 1g(W/kg)			Temperature (°C)	Verdict
	Channel		Low	Middle	High		
Body	P1	GPRS	--	0.695	--	22	Pass

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P2	EGPRS	--	0.618	--	22	Pass
	GPRS	0.718	0.866	1.05	22	Pass
P3	EGPRS	--	0.761	--	22	Pass
	GPRS	--	0.460	--	22	Pass
P4	EGPRS	--	--	--	22	Pass
	GPRS	--	0.153	--	22	Pass
P5	EGPRS	--	--	--	22	Pass
	GPRS	--	0.056	--	22	Pass

PCS1900

1900	Test Configuration		SAR, Averaged over 1g(W/kg)			Temperature (°C)	Verdict
	Channel		Low	Middle	High		
Body	P1	GPRS	--	--	--	22	Pass
		EGPRS	--	0.735	--	22	Pass
	P2	GPRS	--	0.759	--	22	Pass
		EGPRS	0.877	0.802	0.782	22	Pass
	P3	GPRS	--	--	--	22	Pass
		EGPRS	--	0.455	--	22	Pass
	P4	GPRS	--	--	--	22	Pass
		EGPRS	--	0.527	--	22	Pass
	P5	GPRS	--	--	--	22	Pass
		EGPRS	--	0.187	--	22	Pass

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WCDMA FDD Band V

850	Test Configuration		SAR, Averaged over 1g(W/kg)			Temperature (°C)	Verdict
	Channel		Low	Middle	High		
Body	P1	WCDMA	--	0.462	--	22	Pass
		HSDPA	--	--	--	22	Pass
	P2	WCDMA	--	0.475	--	22	Pass
		HSDPA	--	--	--	22	Pass
	P3	WCDMA	--	0.086	--	22	Pass
		HSDPA	--	--	--	22	Pass
	P4	WCDMA	--	0.189	--	22	Pass
		HSDPA	--	--	--	22	Pass
	P5	WCDMA	--	0.042	--	22	Pass
		HSDPA	--	--	--	22	Pass

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WCDMA FDD Band II

1900	Test Configuration		SAR, Averaged over 1g(W/kg)			Temperature (°C)	Verdict
	Channel		Low	Middle	High		
Body	P1	WCDMA	0.796	0.872	0.901	22	Pass
		HSDPA	--	0.718	--	22	Pass
	P2	WCDMA	0.929	0.997	0.907	22	Pass
		HSDPA	--	0.822	--	22	Pass
	P3	WCDMA	--	0.595	--	22	Pass
		HSDPA	--	--	--	22	Pass
	P4	WCDMA	--	0.593	--	22	Pass
		HSDPA	--	--	--	22	Pass
	P5	WCDMA	--	0.154	--	22	Pass
		HSDPA	--	--	--	22	Pass

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Maximum Values

Frequency Band(MHz)	EUT position	Output Power (dBm)	1g Average (W/Kg)	Power Drift (dB)	Temperature (°C)	Verdict
GSM850	Body Worn, GPRS, High Channel, 0.5cm,P2	32.9	1.05	-0.210	22	PASS
PCS1900	Body Worn, GPRS, Low Channel, 0.5cm,P2	25.9	0.877	0.064	22	PASS
WCDMA FDD V	Body Worn, WCDMA, Mid Channel, 0.5cm,P2	23.1	0.475	-0.047	22	PASS
WCDMA FDD II	Body Worn, WCDMA, Mid Channel, 0.5cm,P2	21.4	0.997	-0.329	22	PASS

Note:

- In GSM850 band, the low, middle and high channels are CH128/824.2MHz, CH189/836.4MHz and CH251/848.8MHz separately.
- In PCS1900 band, the low, middle and high channels are CH512/1805.2MHz, CH661/1880.0MHz and CH810/1909.8MHz separately.
- In WCDMA Band II, the low, middle and high channels are CH12/1852.4MHz, CH9400/1880.0MHz and CH9538/1907.6MHz separately.
- In WCDMA Band V, the low, middle and high channels are CH4132/826.4MHz, CH4182/836.4MHz and CH4233/846.6MHz separately.
- ES3DV3 Probe Tip diameter is 3.9 mm and distance from probe tip to dipole centers is 2.0 mm. The additional tests were manually performed according to FCC KDB 447498 and single point SAR values are recorded as shown in table below.

Frequency Band(MHz)	EUT position	Single Point SAR values (W/Kg) VS Distance separation between DUT and Flat Phantom			Full averaged SAR evaluated at the separation distance of	
		5mm	10mm	15mm	10mm	15mm
GSM850	High Chan/ P2/GPRS	1.324	0.6112	0.2646	0.536	--
GSM1900	Low Chan/P2/EDGE	1.026	0.4969	0.2339	0.428	--
Band V	--	--	--	--	--	--
Band II	Middle Chan/ P2/WCDMA	1.077	0.6981	0.3043	0.412	--

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3. Instruments List

Instrument	Model	Serial number	NO.	Date of last Calibration
Desktop PC	COMPAQ EVO	N/A	GSM-SAR-025	N/A
Dasy 4 software	V 4.7 build 44	N/A	GSM-SAR-001	N/A
Probe	ES3DV3	3088	GSM-SAR-034	2008.1.18
DAE	DAE3	569	GSM-SAR-023	2007.11.19
900MHz system validation dipole	D900V2	184	GSM-SAR-017	2007.12.21
1900MHz system validation dipole	D1900V2	5d028	GSM-SAR-020	2007.12.21
Phantom	SAM 12	TP-1283	GSM-SAR-005	N/A
Robot	RX90L	F03/5V32A1/A01	GSM-SAR-006	N/A
Dielectric probe kit	85070D	US01440168	GSM-SAR-016	2007.12.18
Agilent network analyzer	E5071B	MY42100549	GSM-SAR-007	2007.12.18
Agilent signal generator	E4438	14438CATO-19719	GSM-SAR-008	2007.12.18
Mini-Circuits preamplifier	ZHL-42	D041905	GSM-SAR-033	2007.12.18
Agilent power meter	E4416A	GB41292095	GSM-SAR-010	2007.12.18
Agilent power sensor	8481H	MY41091234	GSM-SAR-011	2007.12.18
HT CP6100 20N Coupling	6100	SCP301480120	GSM-SAR-012	2007.12.18
R&S Universal radio communication tester	CMU200	103633	GSM-AUD-002	2007.12.18

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4. Measurements

GSM850

4.1 GSM850-Body-Worn-GPRS-Middle-P1

Date/Time: 2008-9-27 23:18:58

Test Laboratory: SGS-GSM

GSM850-Body-Worn-GPRS-Mid-P1 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

Communication System: GSM850-GPRS Mode; Frequency: 836.4 MHz; Duty Cycle: 1:4

Medium: HSL900-Body Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P1-2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.810 mW/g

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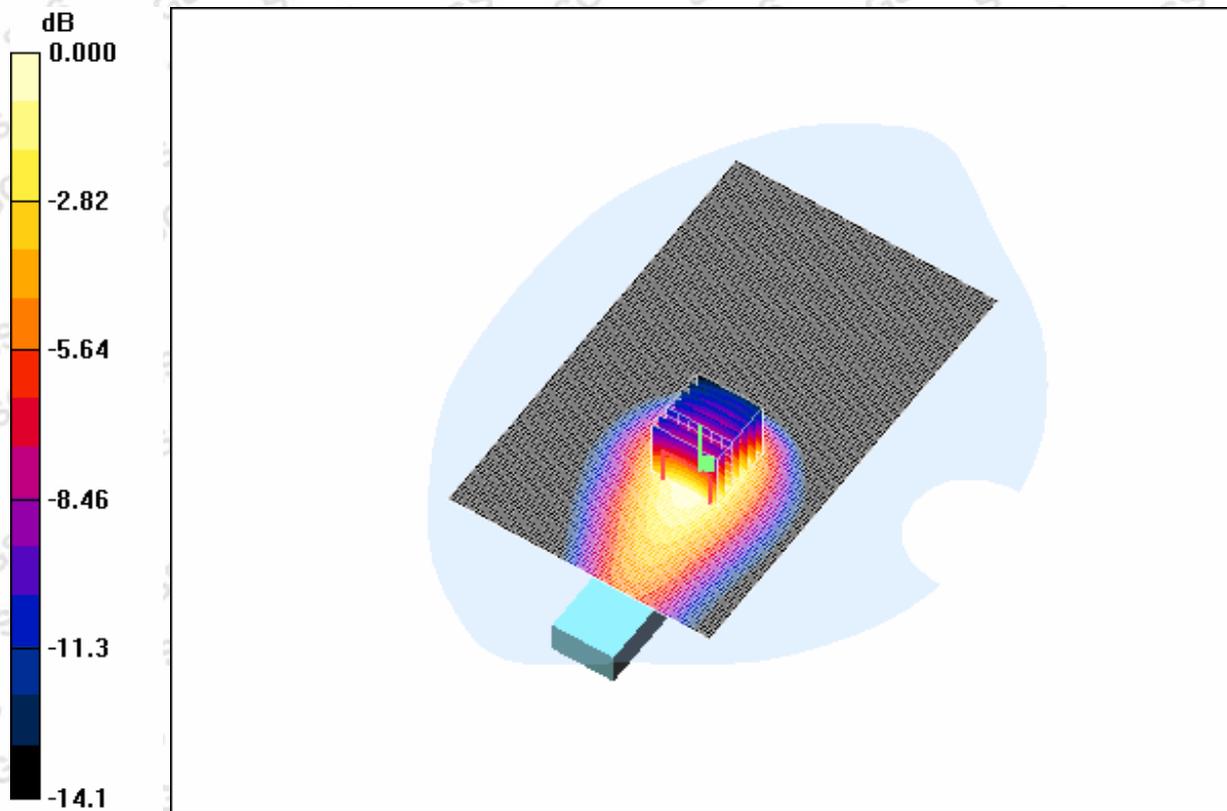
Body Worn - Middle P1-2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.34 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.695 mW/g; SAR(10 g) = 0.440 mW/g

Maximum value of SAR (measured) = 0.757 mW/g



0 dB = 0.757mW/g

4.2 GSM850-Body-Worn-GPRS-Middle-P2

Date/Time: 2008-9-27 21:17:25

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Test Laboratory: SGS-GSM

GSM850-Body-Worn-GPRS-Mid-P2 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

Communication System: GSM850-GPRS Mode; Frequency: 836.4 MHz; Duty Cycle: 1:4

Medium: HSL900-Body Medium parameters used: $f = 836.4 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P2-2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.05 mW/g

Body Worn - Middle P2-2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

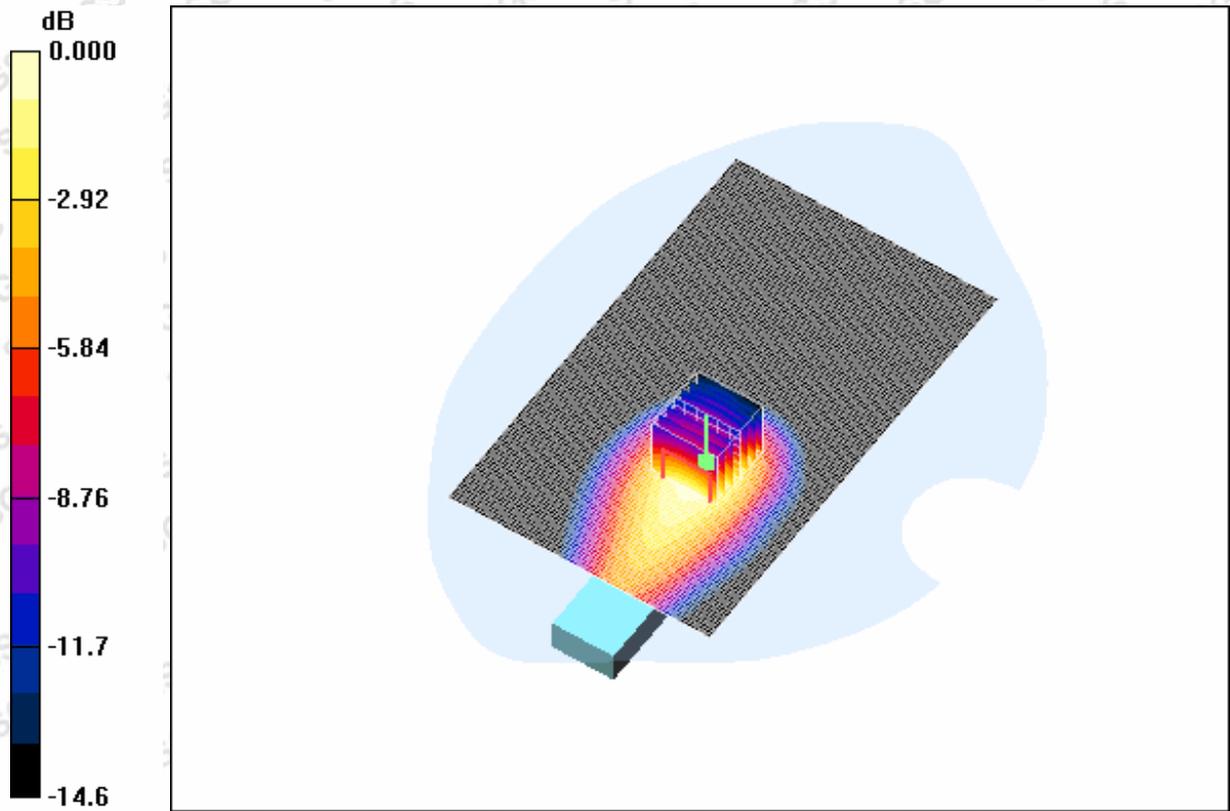
Reference Value = 8.00 V/m; Power Drift = -0.107 dB

Peak SAR (extrapolated) = 1.42 W/kg

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SAR(1 g) = 0.866 mW/g; SAR(10 g) = 0.539 mW/g

Maximum value of SAR (measured) = 0.945 mW/g



0 dB = 0.945mW/g

4.3 GSM850-Body-Worn- GPRS -Middle-P3

Date/Time: 2008-9-28 8:38:55

Test Laboratory: SGS-GSM

GSM850-Body-Worn-GPRS-Mid-P3 0.5cm

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DUT: KZ017AK01; Type: Body; Serial: 20080616

Communication System: GSM850-GPRS Mode; Frequency: 836.4 MHz; Duty Cycle: 1:4

Medium: HSL900-Body Medium parameters used: $f = 836.4 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P3/Area Scan (81x131x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.526 mW/g

Body Worn - Middle P3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

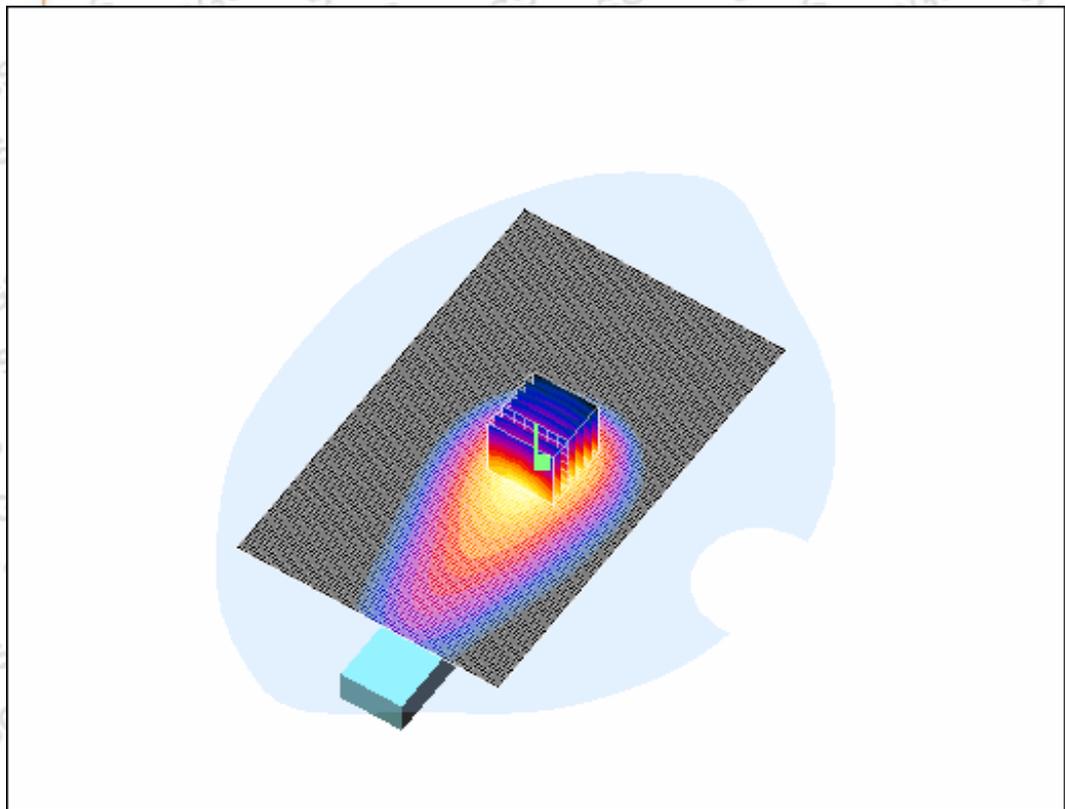
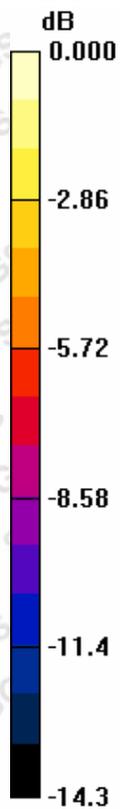
Reference Value = 23.7 V/m; Power Drift = -0.214 dB

Peak SAR (extrapolated) = 0.847 W/kg

SAR(1 g) = 0.460 mW/g; SAR(10 g) = 0.271 mW/g

Maximum value of SAR (measured) = 0.506 mW/g

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0 dB = 0.506mW/g

4.4 GSM850-Body-Worn- GPRS -Middle-P4

Date/Time: 2008-9-28 10:40:56

Test Laboratory: SGS-GSM

GSM850-Body-Worn-GPRS-Mid-P4 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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SHGSM

Communication System: GSM850-GPRS Mode; Frequency: 836.4 MHz; Duty Cycle: 1:4

Medium: HSL900-Body Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P4/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.192 mW/g

Body Worn - Middle P4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

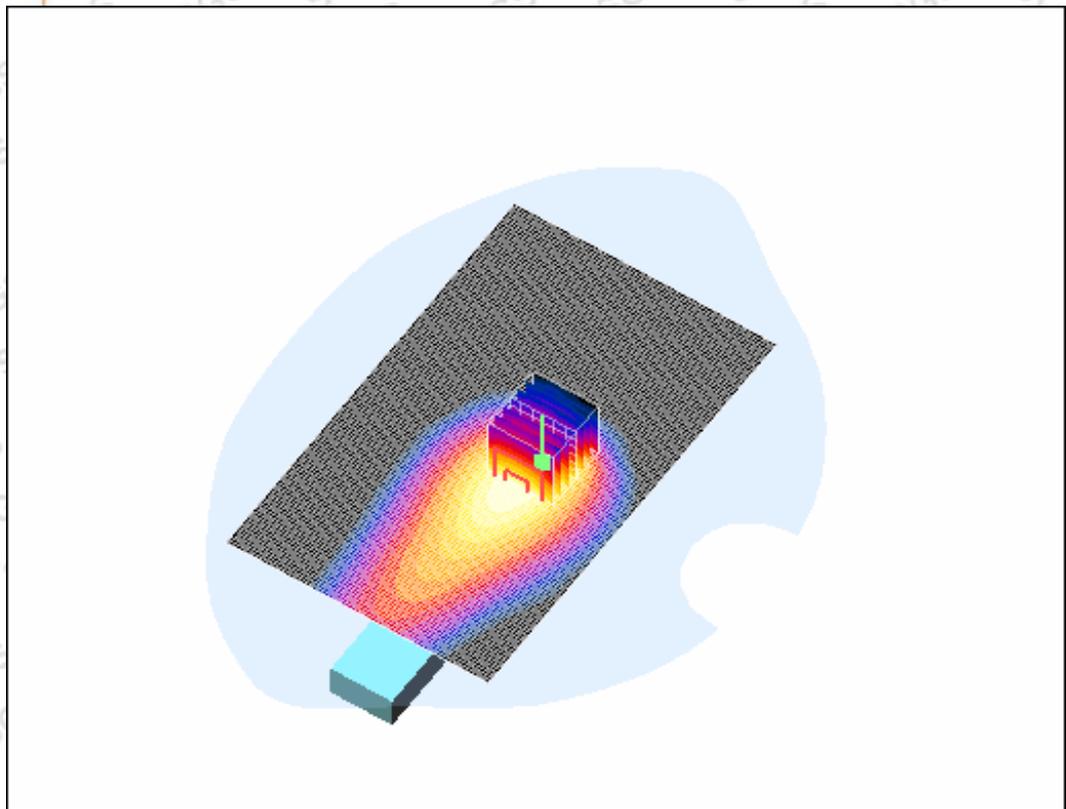
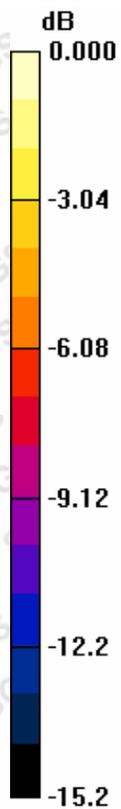
Reference Value = 11.7 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.287 W/kg

SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.168 mW/g

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0 dB = 0.168mW/g

4.5 GSM850-Body-Worn- GPRS -Middle-P5

Date/Time: 2008-9-28 13:05:25

Test Laboratory: SGS-GSM

GSM850-Body-Worn-GPRS-Mid-P5 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: GSM850-GPRS Mode; Frequency: 836.4 MHz; Duty Cycle: 1:4

Medium: HSL900-Body Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P5/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.059 mW/g

Body Worn - Middle P5/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

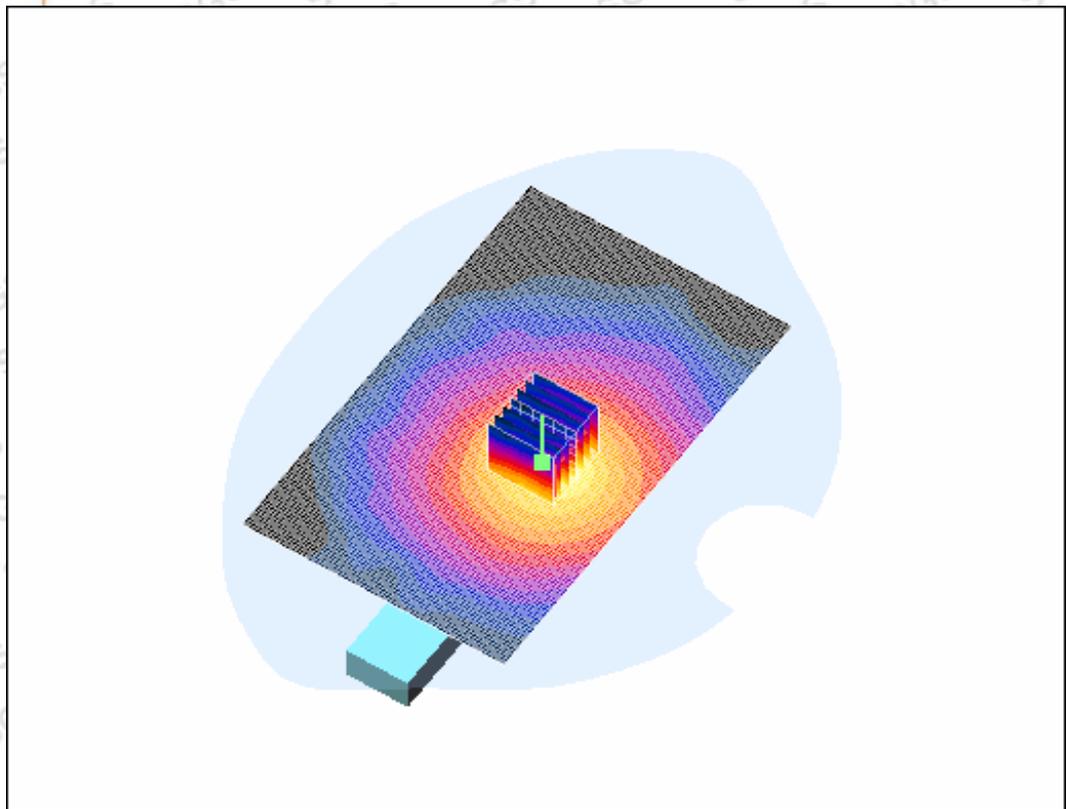
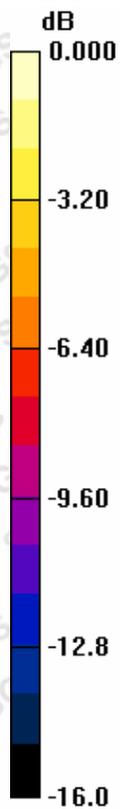
Reference Value = 5.72 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 0.132 W/kg

SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.028 mW/g

Maximum value of SAR (measured) = 0.063 mW/g

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0 dB = 0.063mW/g

4.6 GSM850-Body-Worn-EGPRS-Middle-P1

Date/Time: 2008-9-27 22:43:34

Test Laboratory: SGS-GSM

GSM850-Body-Worn-EDGE-Mid-P1 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: GSM850-EGPRS Mode; Frequency: 836.4 MHz; Duty Cycle: 1:2

Medium: HSL900-Body Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P1-2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.719 mW/g

Body Worn - Middle P1-2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

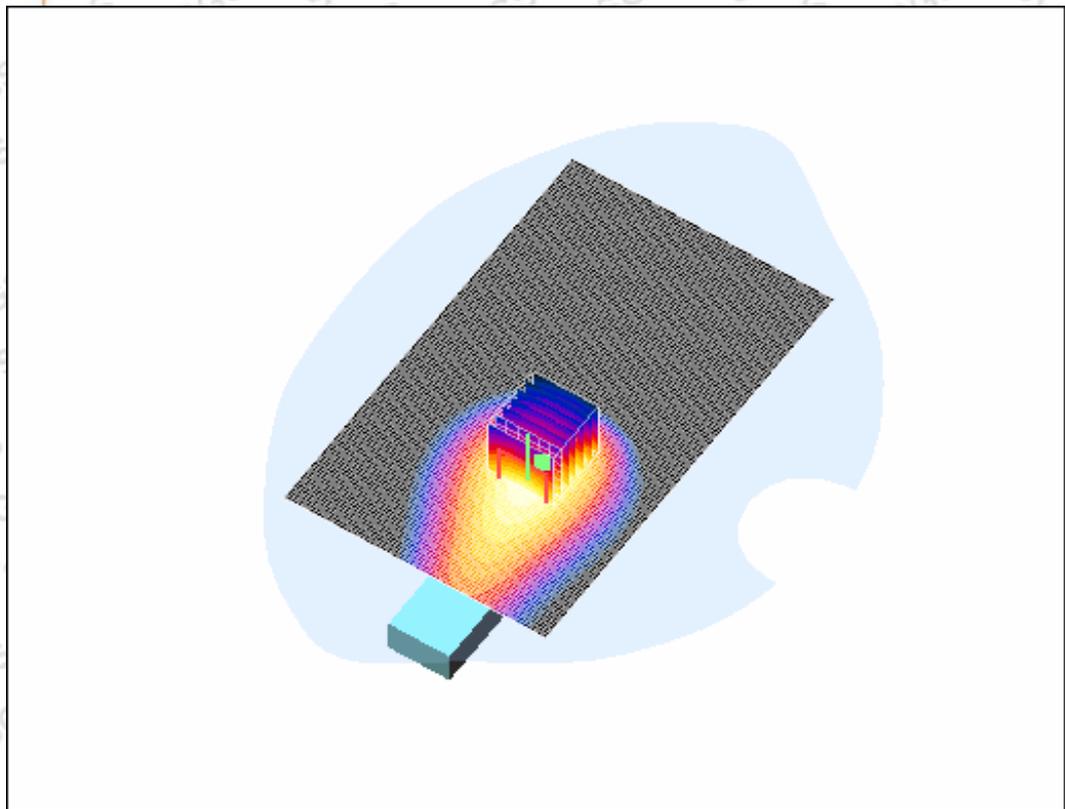
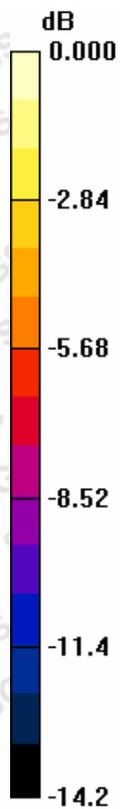
Reference Value = 7.07 V/m; Power Drift = -0.092 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.618 mW/g; SAR(10 g) = 0.389 mW/g

Maximum value of SAR (measured) = 0.669 mW/g

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0 dB = 0.669mW/g

4.7 GSM850-Body-Worn-EGPRS-Middle-P2

Date/Time: 2008-9-27 21:47:13

Test Laboratory: SGS-GSM

GSM850-Body-Worn-EDGE-Mid-P2 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: GSM850-EGPRS Mode; Frequency: 836.4 MHz; Duty Cycle: 1:2

Medium: HSL900-Body Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P2-2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.927 mW/g

Body Worn - Middle P2-2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

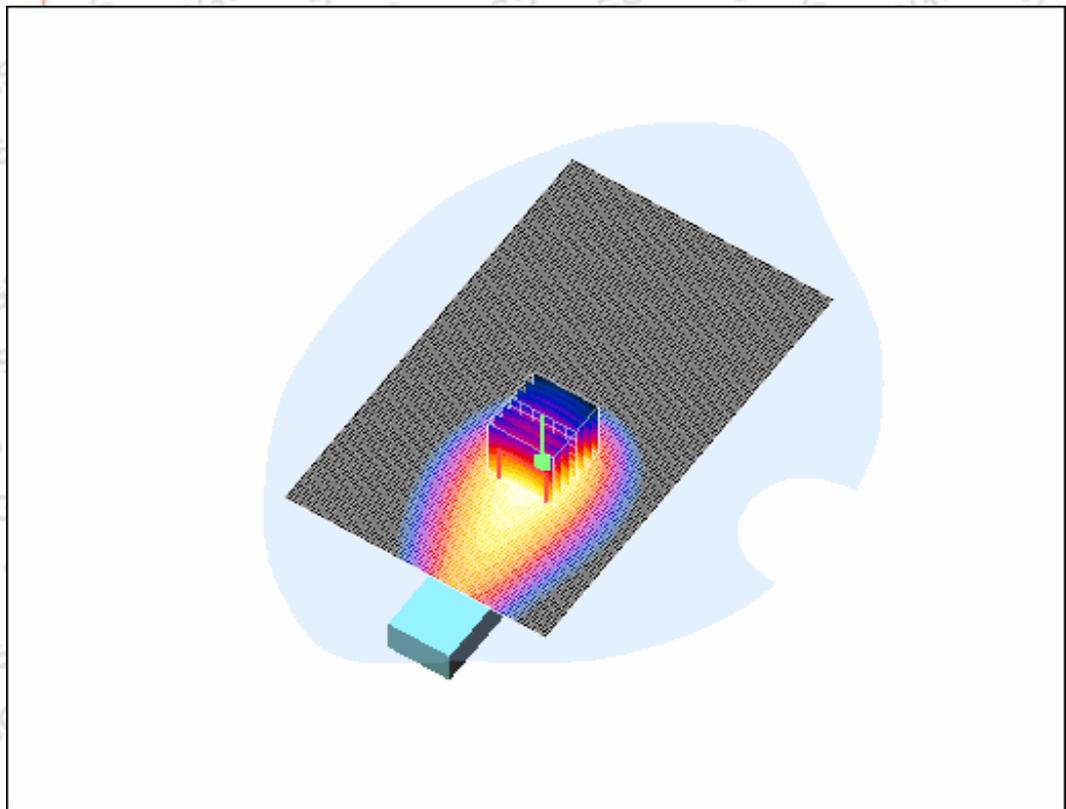
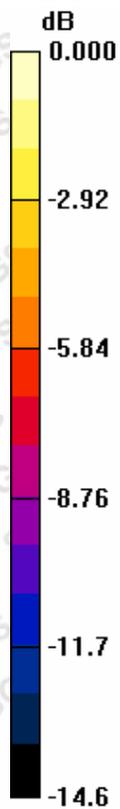
Reference Value = 7.61 V/m; Power Drift = -0.192 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.761 mW/g; SAR(10 g) = 0.480 mW/g

Maximum value of SAR (measured) = 0.828 mW/g

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0 dB = 0.828mW/g

4.8 GSM850-Body-Worn-EGPRS-Middle-P3

Blank

4.9 GSM850-Body-Worn-EGPRS-Middle-P4

Blank

4.10 GSM850-Body-Worn-EGPRS-Middle-P5

Blank

4.11 GSM850-Body-Worn-GPRS-Worstcase-Low

Date/Time: 2008-9-27 20:30:19

Test Laboratory: SGS-GSM

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GSM850-Body-Worn-GPRS-Low-P2 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

Communication System: GSM850-GPRS Mode; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium: HSL900-Body Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.958$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Low P2-2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.857 mW/g

Body Worn - Low P2-2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

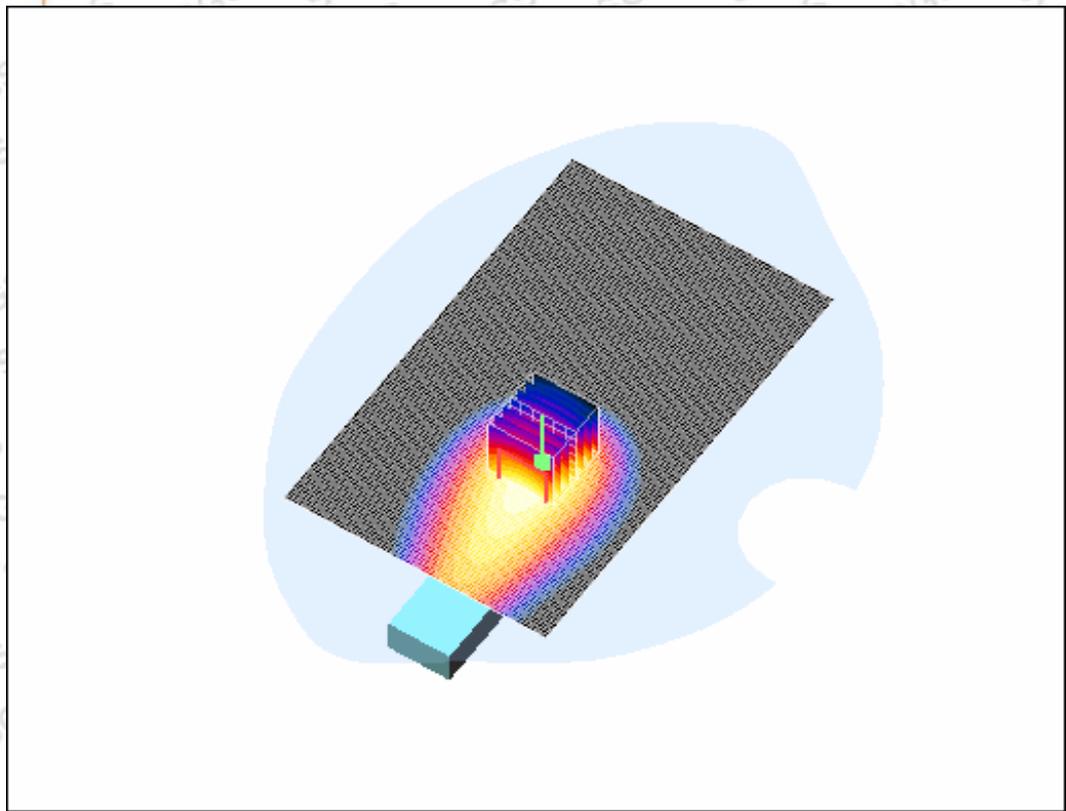
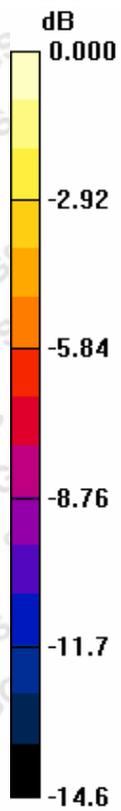
Reference Value = 7.23 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.718 mW/g; SAR(10 g) = 0.453 mW/g

Maximum value of SAR (measured) = 0.774 mW/g

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0 dB = 0.774mW/g

4.12GSM850-Body-Worn- GPRS-Worstcase-High

Date/Time: 2008-9-27 19:37:05

Test Laboratory: SGS-GSM

GSM850-Body-Worn-GPRS-High-P2 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: GSM850-GPRS Mode; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: HSL900-Body Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.982$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - High P2-2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.30 mW/g

Body Worn - High P2-2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

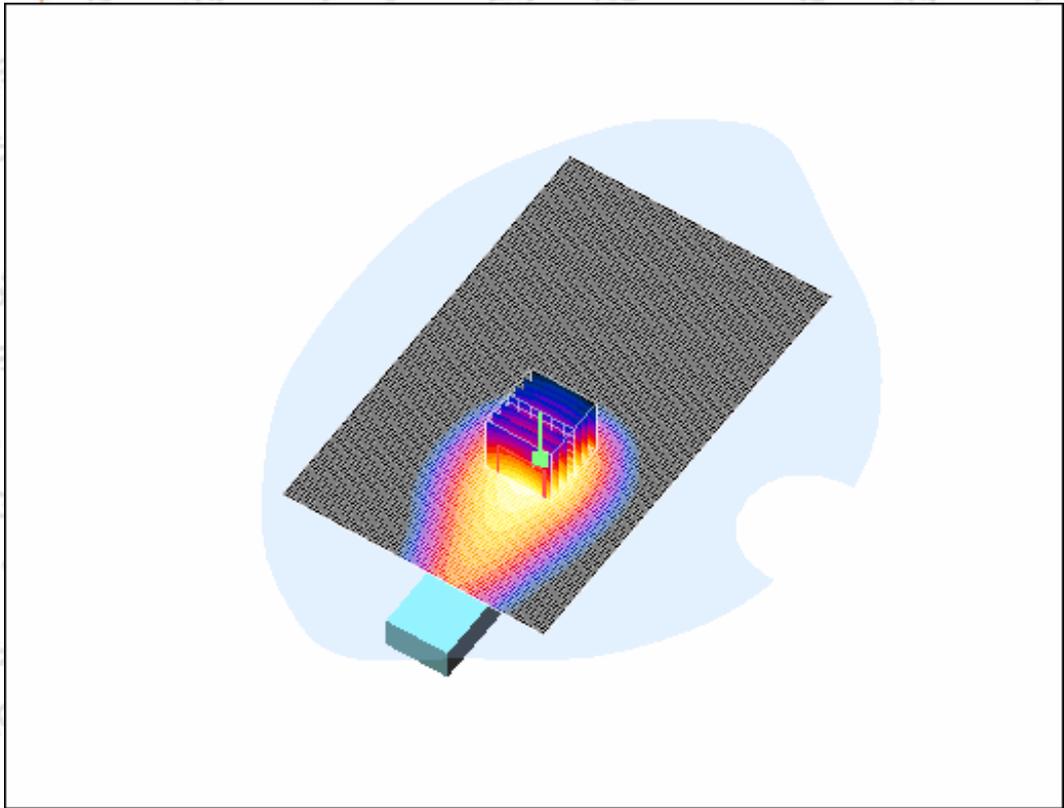
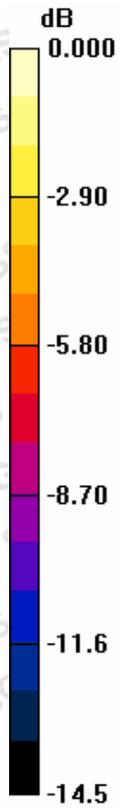
Reference Value = 8.60 V/m; Power Drift = -0.210 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.654 mW/g

Maximum value of SAR (measured) = 1.14 mW/g

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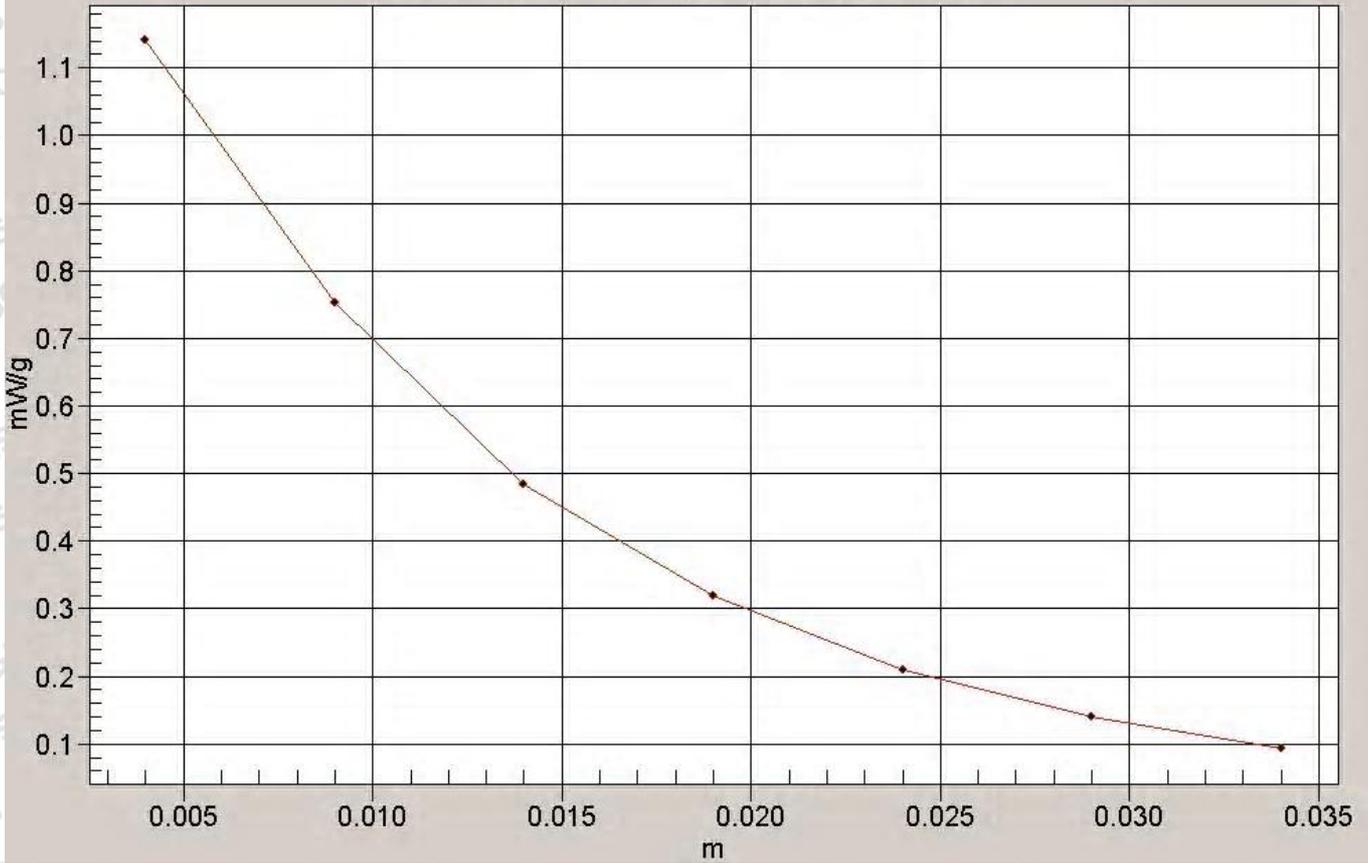


0 dB = 1.14mW/g

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1g/10g Averaged SAR

SAR; Zoom Scan (7x7x7):Value Along Z, X=3, Y=3



GSM850-Body-Worn- GPRS-P2-High 1cm(MAX)

Date/Time: 2008-9-29 11:43:54

Test Laboratory: SGS-GSM

GSM850-Body-Worn-GPRS-High-P2 1cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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SHGSM

Communication System: GSM850-GPRS Mode; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: HSL900-Body Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.982$ mho/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - High P2-10MM/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.612 mW/g

Body Worn - High P2-10MM/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

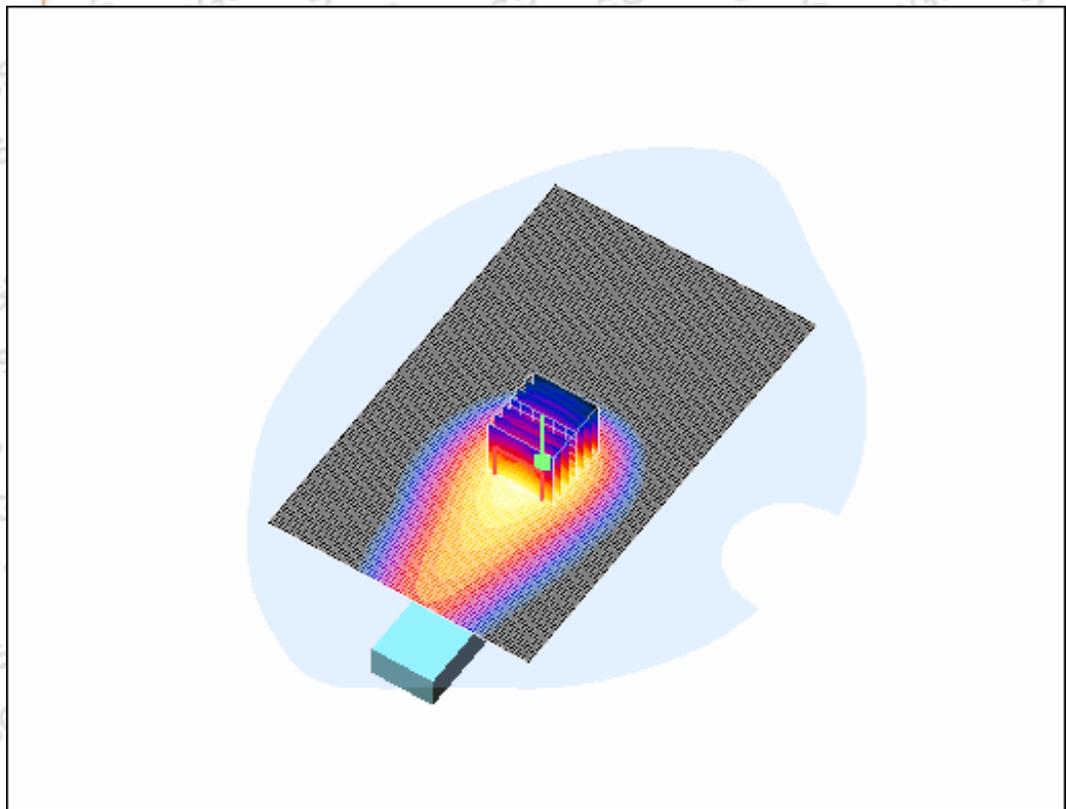
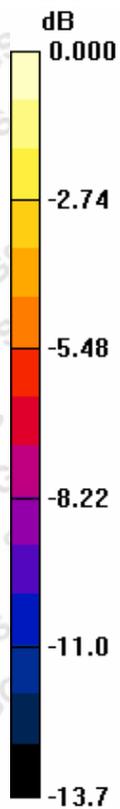
Reference Value = 17.1 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 0.795 W/kg

SAR(1 g) = 0.536 mW/g; SAR(10 g) = 0.341 mW/g

Maximum value of SAR (measured) = 0.584 mW/g

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0 dB = 0.584mW/g

GSM850-Body-Worn-EGPRS-Worstcase-Low

Blank

GSM850-Body-Worn- EGPRS-Worstcase-High

Blank

GSM1900

4.13 GSM1900-Body-Worn-GPRS-Middle-P1

Blank

4.14 GSM1900-Body-Worn-GPRS-Middle-P2

Date/Time: 2008-9-30 17:04:06

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SHGSM

Test Laboratory: SGS-GSM

PCS1900-Body-Worn--GPRS-Mid-P2 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

Communication System: PCS1900-GPRS Mode; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle p 2/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.785 mW/g

Body Worn - Middle p 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

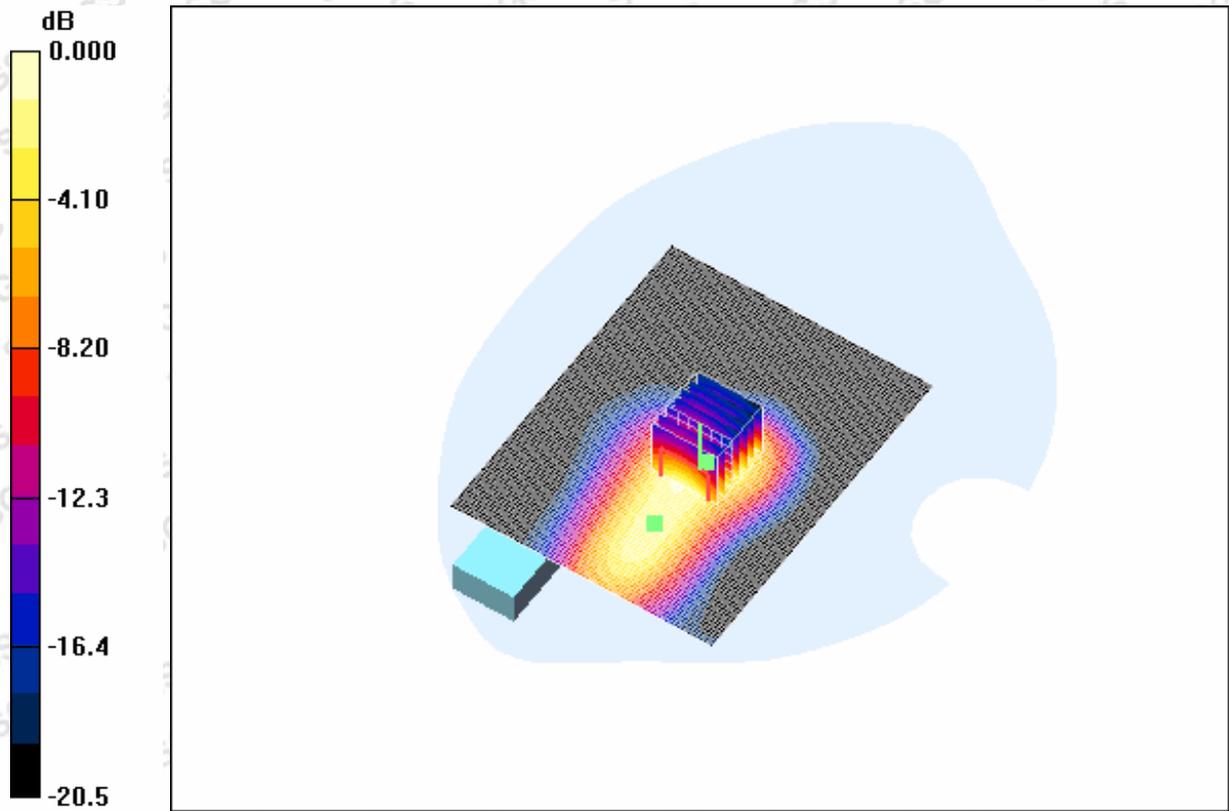
Reference Value = 3.86 V/m; Power Drift = 0.200 dB

Peak SAR (extrapolated) = 1.40 W/kg

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SAR(1 g) = 0.759 mW/g; SAR(10 g) = 0.397 mW/g

Maximum value of SAR (measured) = 0.833 mW/g



0 dB = 0.833mW/g

4.15 GSM1900-Body-Worn-GPRS-Middle-P3

Blank

4.16 GSM1900-Body-Worn-GPRS-Middle-P4

Blank

4.17 GSM1900-Body-Worn- GPRS -Middle-P5

Blank

4.18 GSM1900-Body-Worn-EGPRS-Middle-P1

Date/Time: 2008-10-1 10:07:52

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Test Laboratory: SGS-GSM

PCS1900-Body-Worn-EDGE-Mid-P1 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

Communication System: PCS1900-EGPRS Mode; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle p 1/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.877 mW/g

Body Worn - Middle p 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

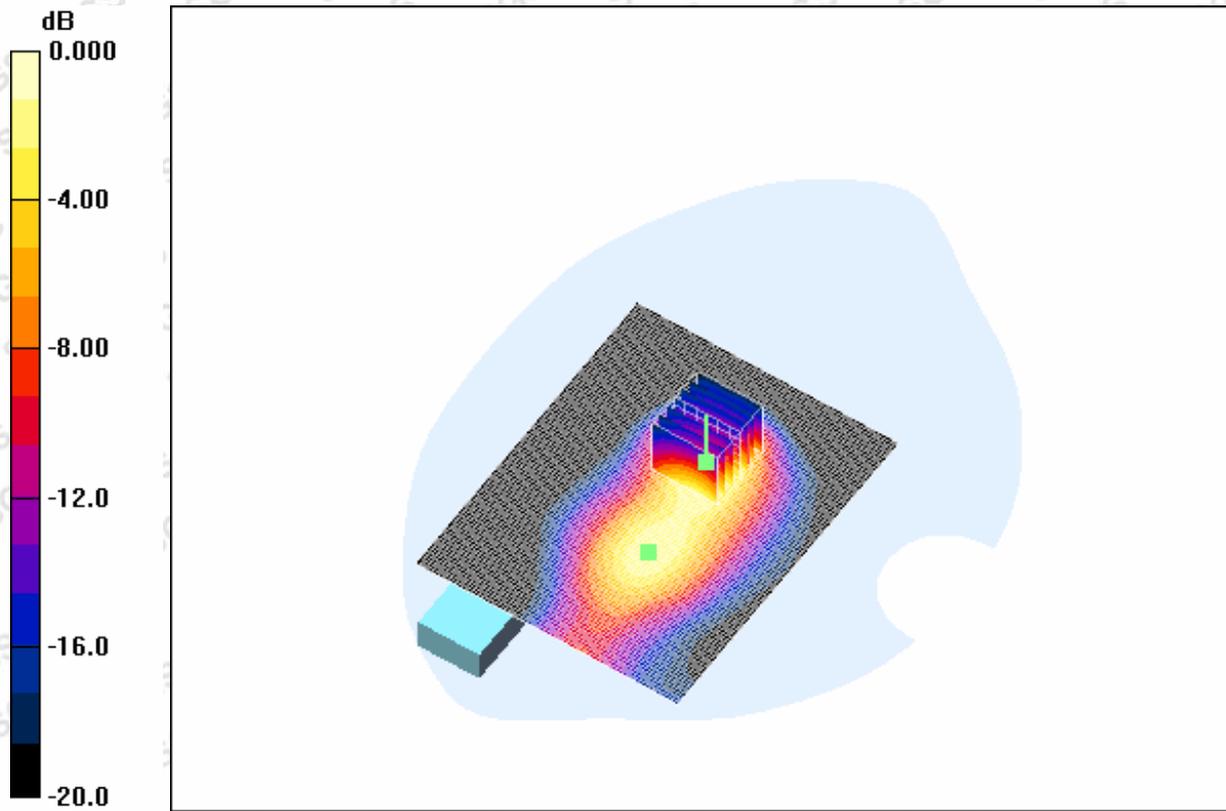
Reference Value = 20.3 V/m; Power Drift = 0.123 dB

Peak SAR (extrapolated) = 1.46 W/kg

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SAR(1 g) = 0.735 mW/g; SAR(10 g) = 0.381 mW/g

Maximum value of SAR (measured) = 0.805 mW/g



0 dB = 0.805mW/g

4.19 GSM1900-Body-Worn-EGPRS-Middle-P2

Date/Time: 2008-9-30 15:53:48

Test Laboratory: SGS-GSM

PCS1900-Body-Worn--EDGE-Mid-P2 0.5cm

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DUT: KZ017AK01; Type: Body; Serial: 20080616

Communication System: PCS1900-EGPRS Mode; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle p2/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.894 mW/g

Body Worn - Middle p2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

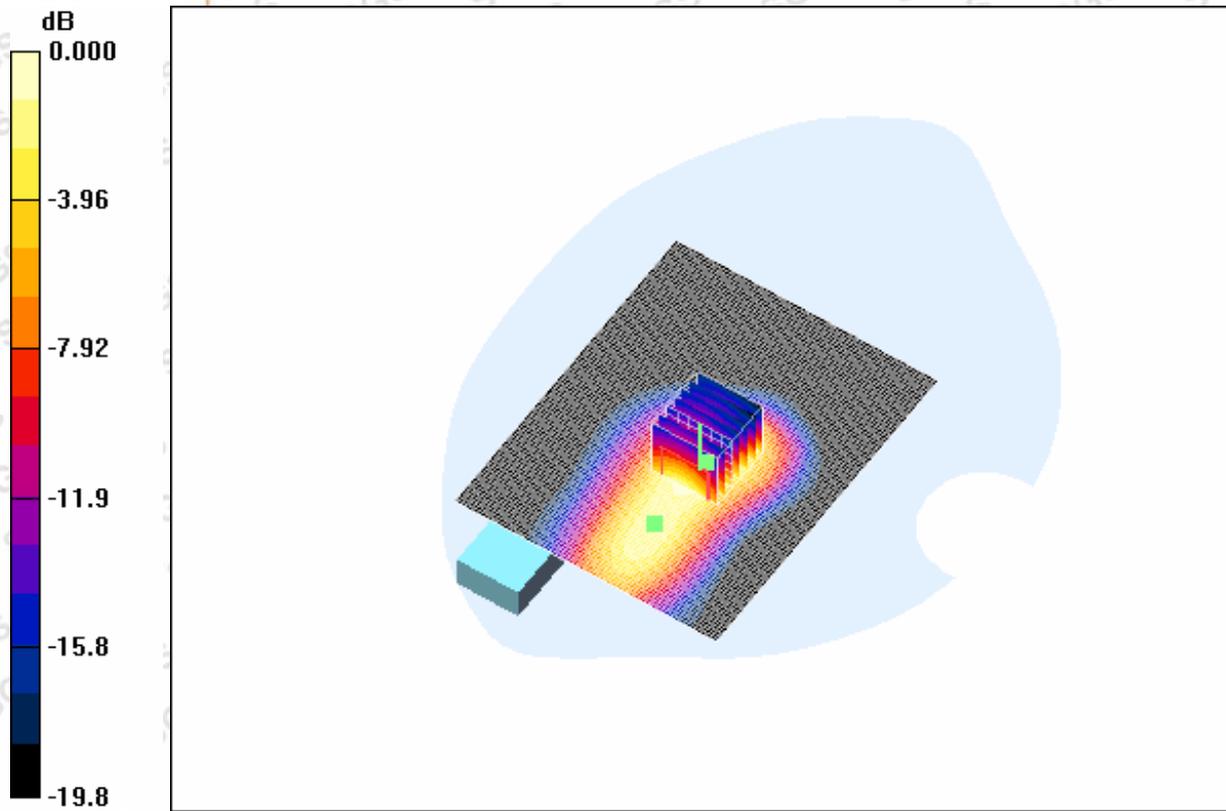
Reference Value = 4.18 V/m; Power Drift = -0.105 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.802 mW/g; SAR(10 g) = 0.425 mW/g

Maximum value of SAR (measured) = 0.912 mW/g

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0 dB = 0.912mW/g

4.20 GSM1900-Body-Worn-EGPRS-Middle-P3

Date/Time: 2008-10-1 7:53:21

Test Laboratory: SGS-GSM

PCS1900-Body-Worn--EDGE-Mid-P3 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: PCS1900-EGPRS Mode; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle p3/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.542 mW/g

Body Worn - Middle p3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

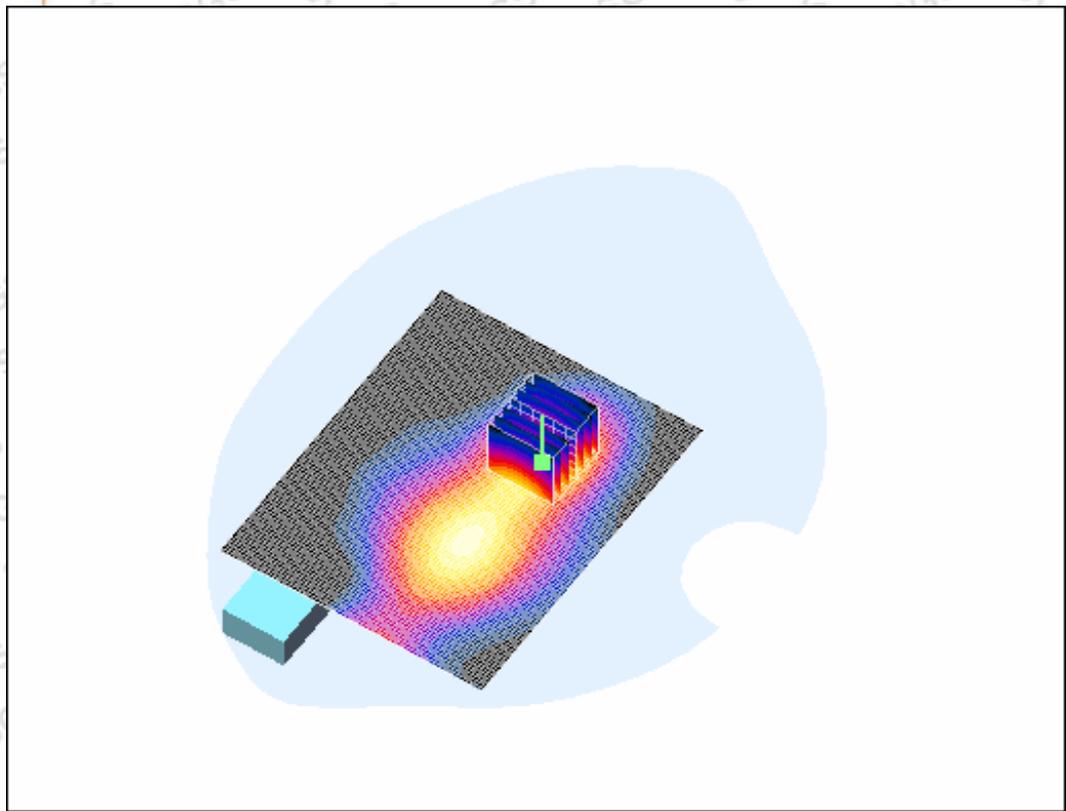
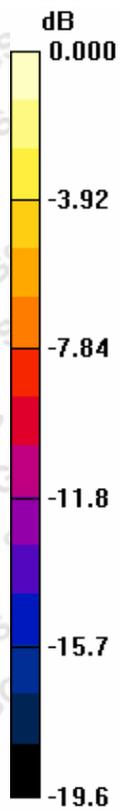
Reference Value = 15.5 V/m; Power Drift = -0.240 dB

Peak SAR (extrapolated) = 0.971 W/kg

SAR(1 g) = 0.455 mW/g; SAR(10 g) = 0.209 mW/g

Maximum value of SAR (measured) = 0.517 mW/g

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0 dB = 0.517mW/g

4.21 GSM1900-Body-Worn-EGPRS-Middle-P4

Date/Time: 2008-10-1 8:22:45

Test Laboratory: SGS-GSM

PCS1900-Body-Worn--EDGE-Mid-P4 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: PCS1900-EGPRS Mode; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle p4/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.602 mW/g

Body Worn - Middle p4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

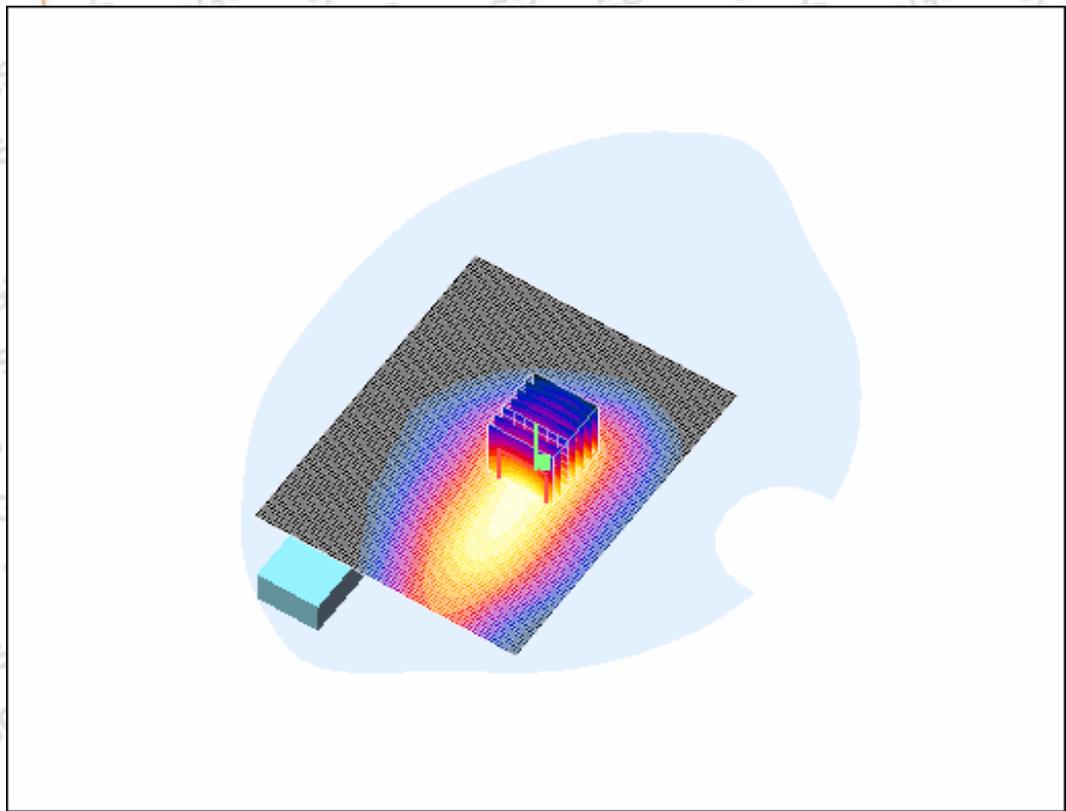
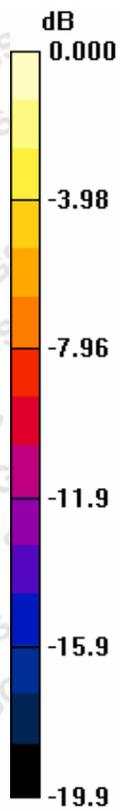
Reference Value = 7.42 V/m; Power Drift = -0.268 dB

Peak SAR (extrapolated) = 0.981 W/kg

SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.281 mW/g

Maximum value of SAR (measured) = 0.590 mW/g

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0 dB = 0.590mW/g

4.22 GSM1900-Body-Worn-EGPRS-Middle-P5

Date/Time: 2008-10-21 18:09:11

Test Laboratory: SGS-GSM

PCS1900-Body-Worn--EGPRS--P5 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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SHGSM

Communication System: PCS1900-EGPRS Mode; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium: HSL1900-Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle p5 2/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.200 mW/g

Body Worn - Middle p5 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

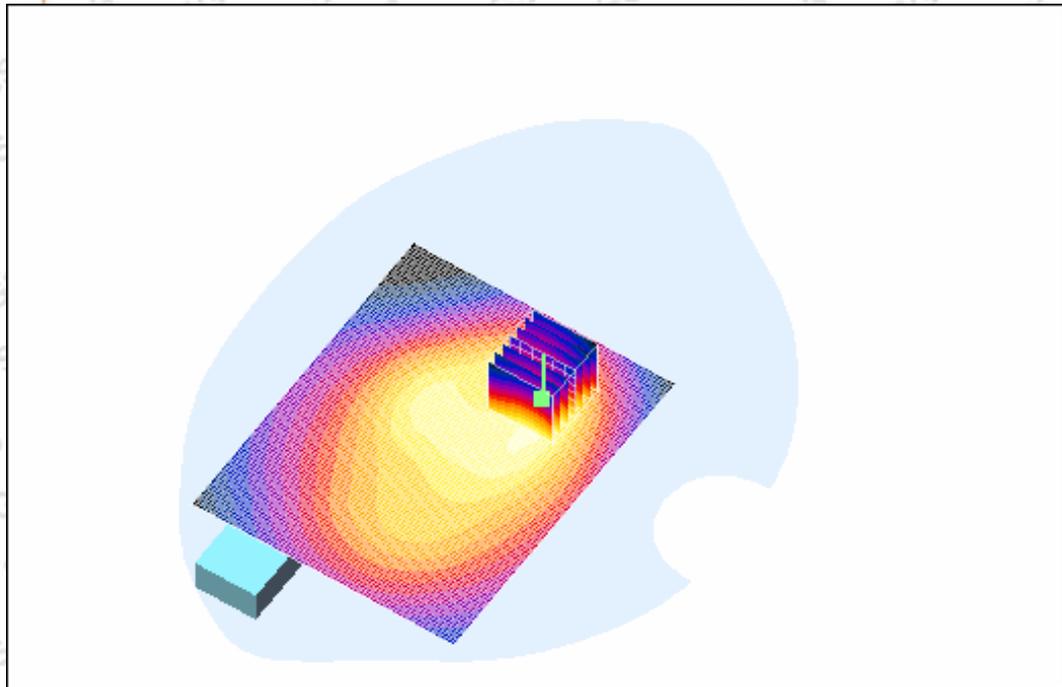
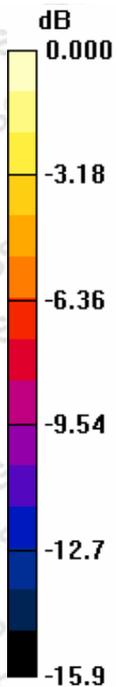
Reference Value = 8.50 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 0.304 W/kg

SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.111 mW/g

Maximum value of SAR (measured) = 0.204 mW/g

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0 dB = 0.204mW/g

4.23 GSM1900-Body-Worn-GPRS-Worstcase-Low

Blank

4.24 GSM1900-Body-Worn- GPRS- Worstcase-High

Blank

GSM1900-Body-Worn- EGPRS- Worstcase-Low

Date/Time: 2008-9-30 14:45:52

Test Laboratory: SGS-GSM

PCS1900-Body-Worn--EDGE-Low-P2 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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SHGSM

Communication System: PCS1900-EGPRS Mode; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium: HSL1900_Body Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Low p2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.980 mW/g

Body Worn - Low p2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

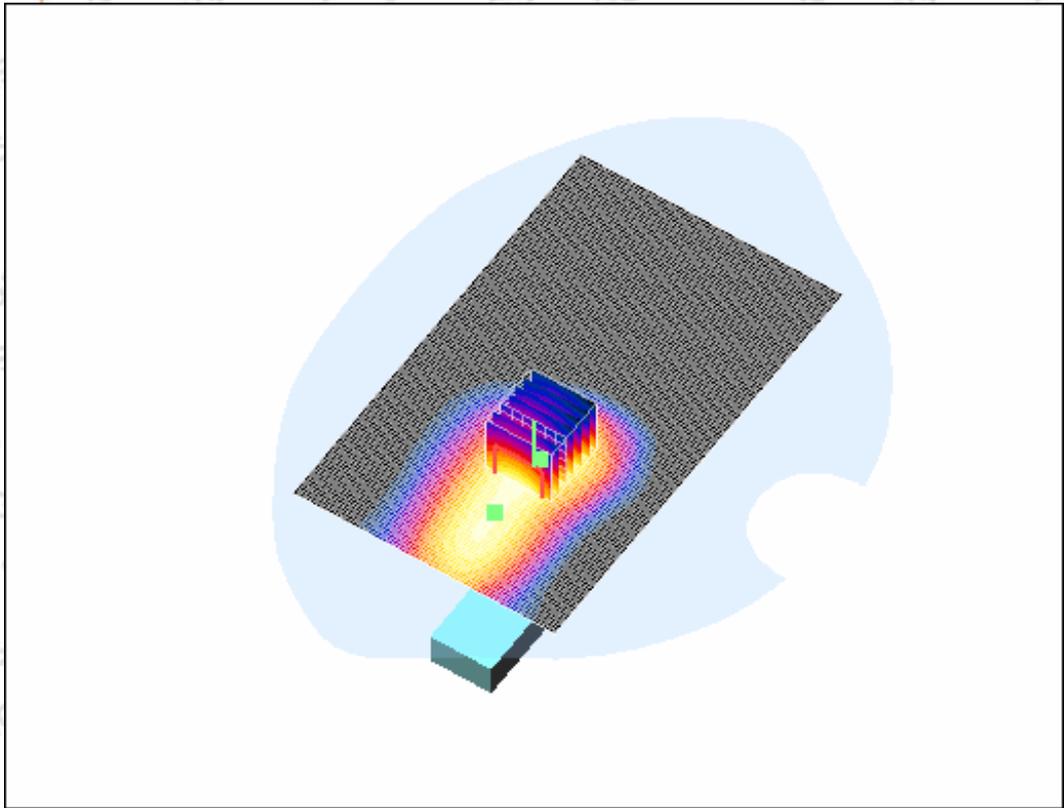
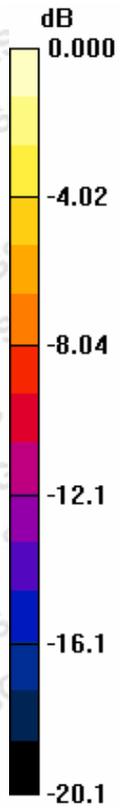
Reference Value = 4.34 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.877 mW/g; SAR(10 g) = 0.462 mW/g

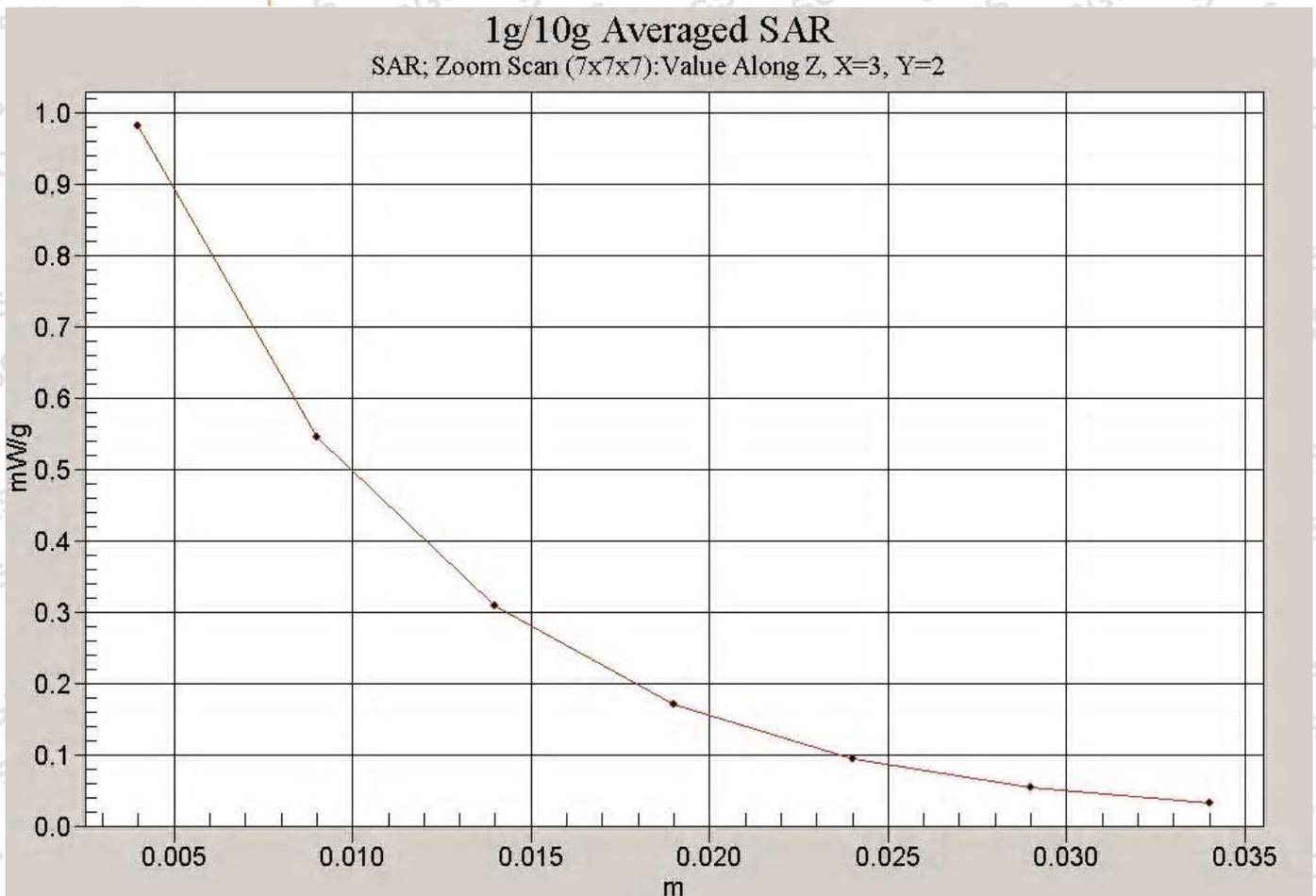
Maximum value of SAR (measured) = 0.982 mW/g

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0 dB = 0.982mW/g

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GSM1900-Body-Worn-EGPRS-Low-P2-1cm

Date/Time: 2008-9-30 17:32:11

Test Laboratory: SGS-GSM

PCS1900-Body-Worn--EDGE-Low-P2 1cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: PCS1900-EGPRS Mode; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium: HSL1900_Body Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Low p2 10cm/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.460 mW/g

Body Worn - Low p2 10cm/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,
dz=5mm

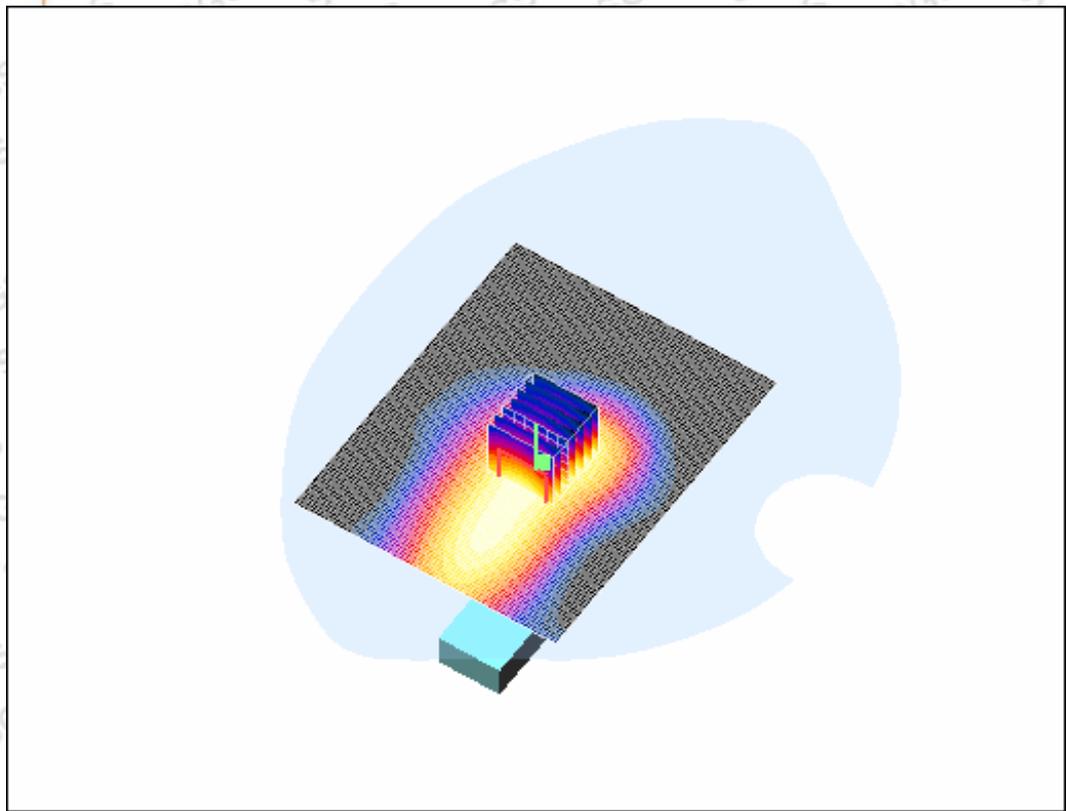
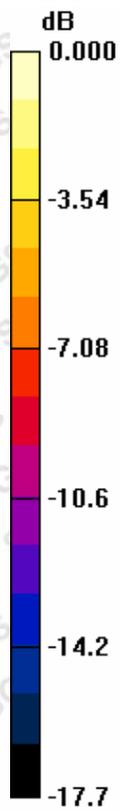
Reference Value = 5.28 V/m; Power Drift = -0.127 dB

Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.428 mW/g; SAR(10 g) = 0.242 mW/g

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

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0 dB = 0.474mW/g

GSM1900-Body-Worn- EGPRS- Worstcase-High

Date/Time: 2008-9-30 16:16:08

Test Laboratory: SGS-GSM

PCS1900-Body-Worn--EDGE-High-P2 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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SHGSM

Communication System: PCS1900-EGPRS Mode; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: HSL1900_Body Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.6$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - High p2/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.862 mW/g

Body Worn - High p2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

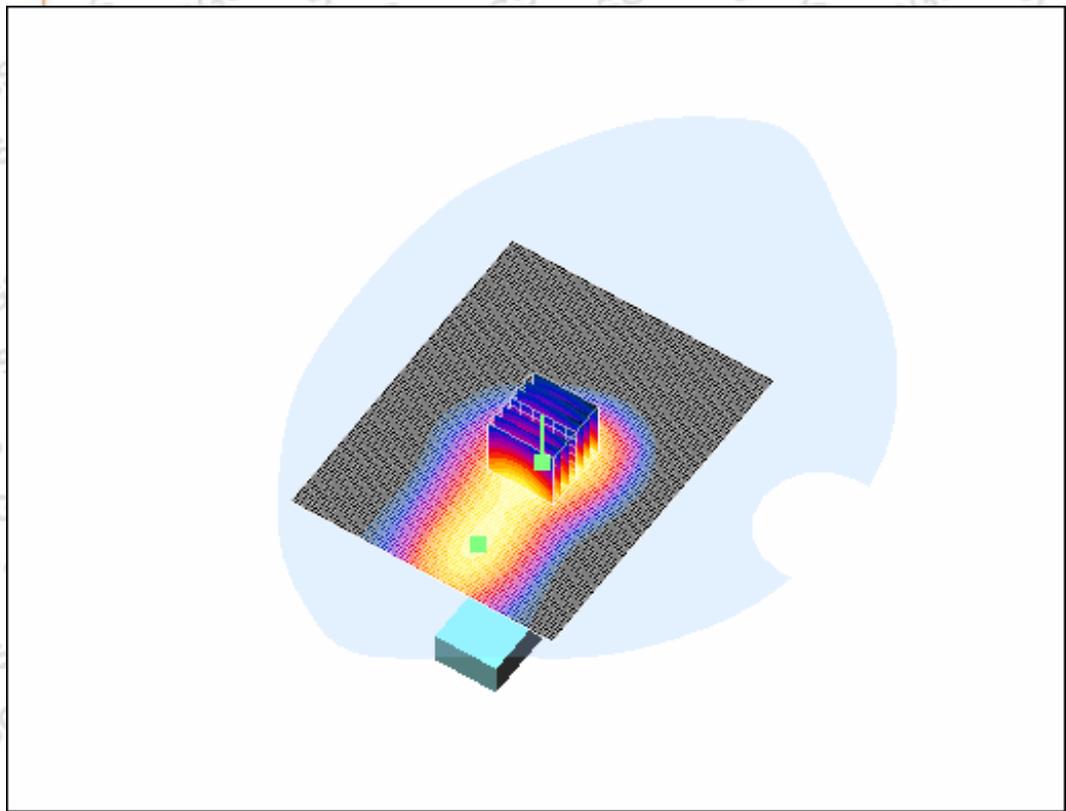
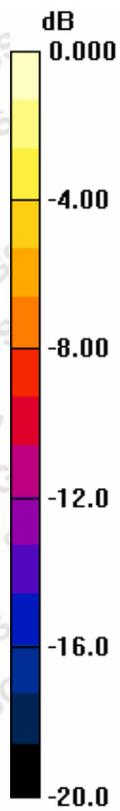
Reference Value = 4.10 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.782 mW/g; SAR(10 g) = 0.398 mW/g

Maximum value of SAR (measured) = 0.876 mW/g

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0 dB = 0.876mW/g

WCDMA Band V

4.25 WCDMA850-Body-Worn-WCDMA-Middle-P1

Date/Time: 2008-9-28 15:11:43

Test Laboratory: SGS-GSM

W850-Body-Worn-WCDMA-Mid-P1 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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SHGSM

Communication System: WCDMA Band V ; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL900-Body Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P1/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.538 mW/g

Body Worn - Middle P1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

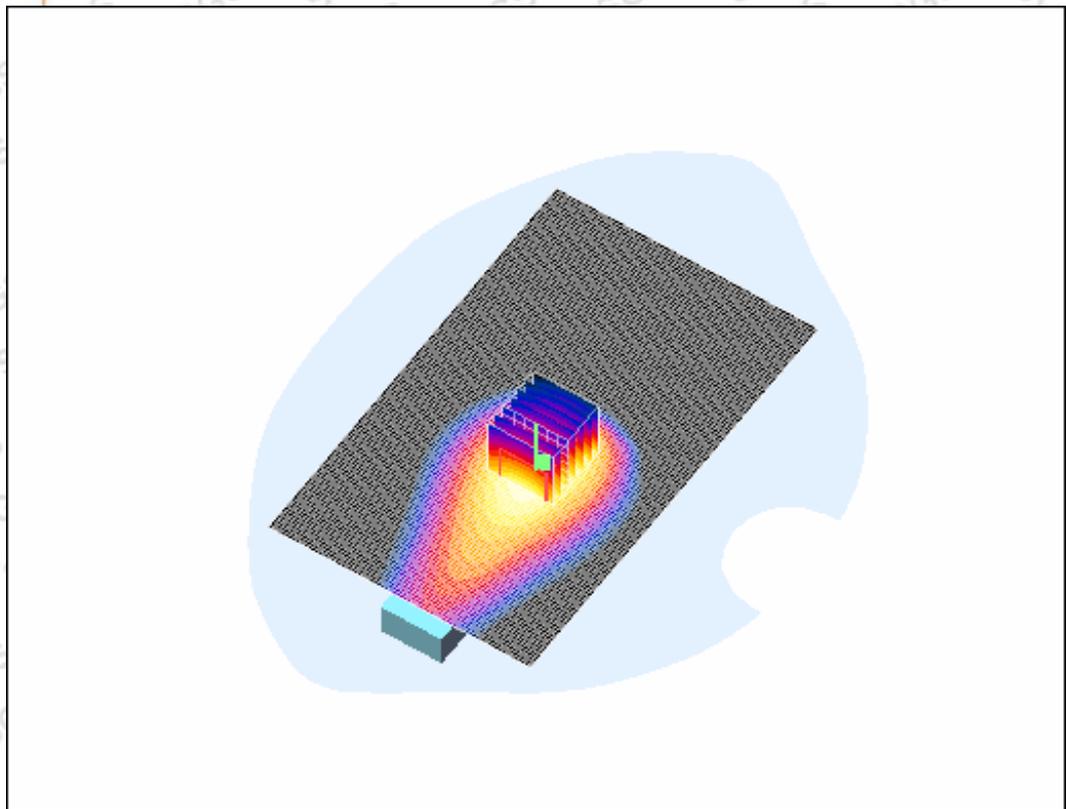
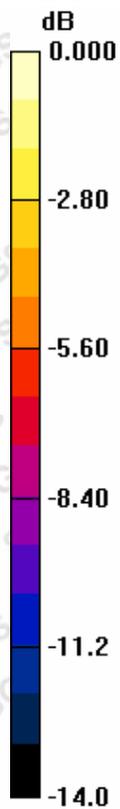
Reference Value = 22.6 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 0.860 W/kg

SAR(1 g) = 0.462 mW/g; SAR(10 g) = 0.291 mW/g

Maximum value of SAR (measured) = 0.501 mW/g

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0 dB = 0.501mW/g

4.26 WCDMA 850-Body-Worn-WCDMA-Middle-P2

Date/Time: 2008-9-28 15:40:05

Test Laboratory: SGS-GSM

W850-Body-Worn-WCDMA-Mid-P2 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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SHGSM

Communication System: WCDMA Band V ; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL900-Body Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.572 mW/g

Body Worn - Middle P2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

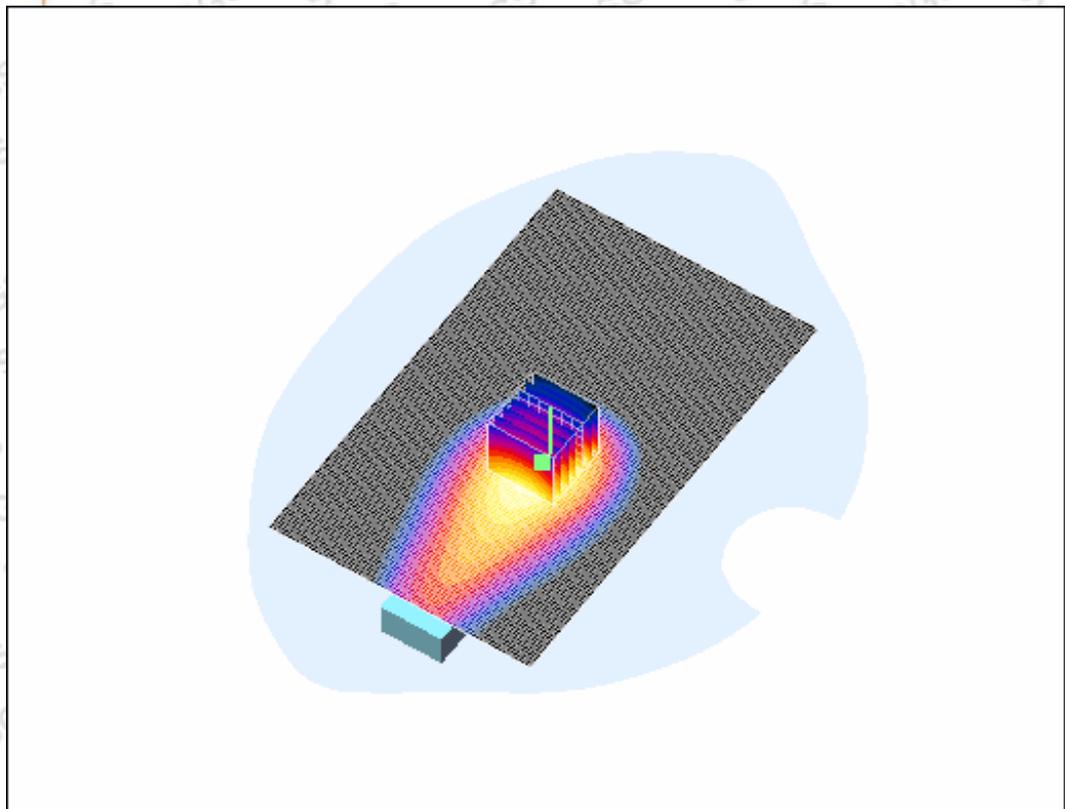
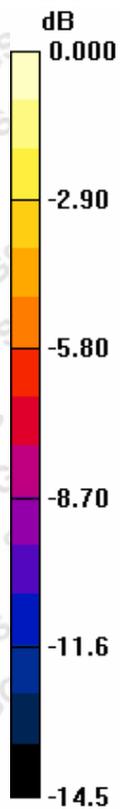
Reference Value = 19.5 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.856 W/kg

SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.292 mW/g

Maximum value of SAR (measured) = 0.517 mW/g

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0 dB = 0.517mW/g

4.27 WCDMA 850-Body-Worn-WCDMA-Middle-P3

Date/Time: 2008-9-28 21:38:24

Test Laboratory: SGS-GSM

W850-Body-Worn-WCDMA-Mid-P3 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: WCDMA Band V ; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL900-Body Medium parameters used: $f = 836.4 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P 3/Area Scan (81x131x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.092 mW/g

Body Worn - Middle P 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

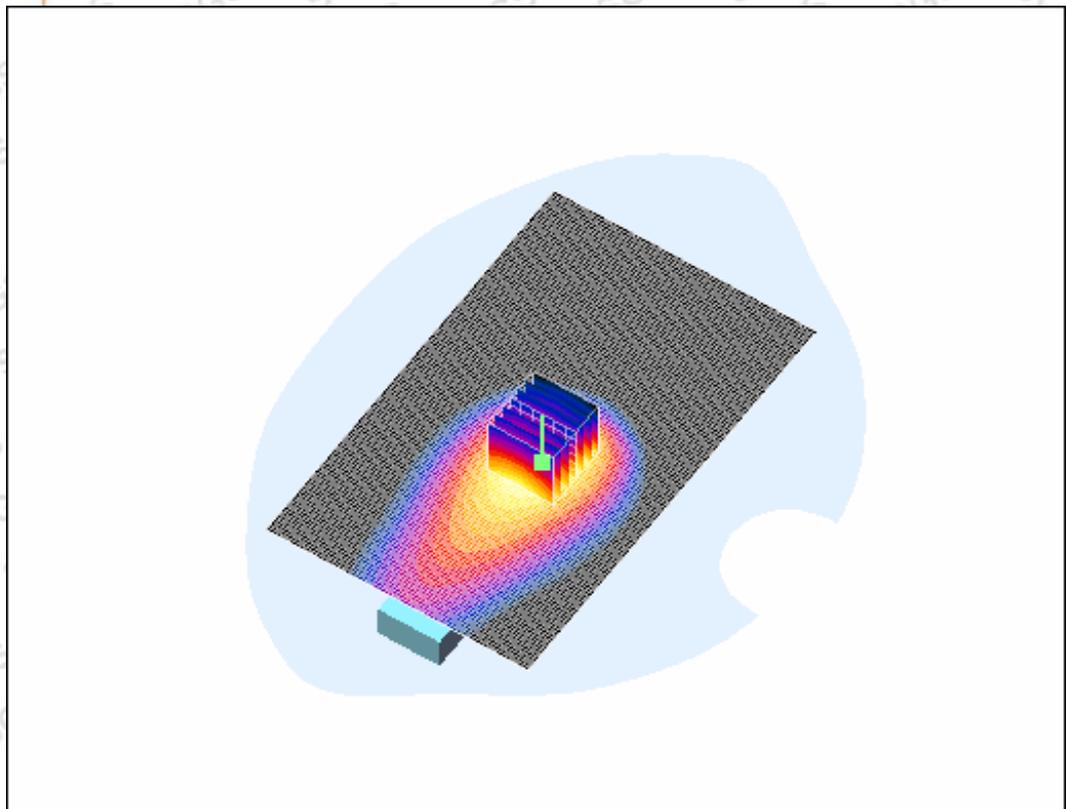
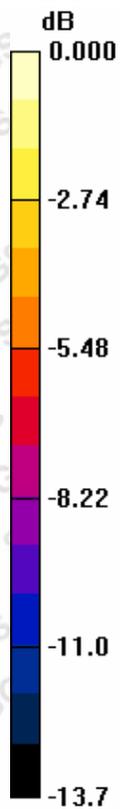
Reference Value = 9.38 V/m; Power Drift = -0.141 dB

Peak SAR (extrapolated) = 0.151 W/kg

SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.052 mW/g

Maximum value of SAR (measured) = 0.094 mW/g

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0 dB = 0.094mW/g

4.28 WCDMA 850-Body-Worn-WCDMA-Middle-P4

Date/Time: 2008-9-28 21:08:48

Test Laboratory: SGS-GSM

W850-Body-Worn-WCDMA-Mid-P4 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: WCDMA Band V ; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL900-Body Medium parameters used: $f = 836.4 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P4/Area Scan (81x131x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.219 mW/g

Body Worn - Middle P4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

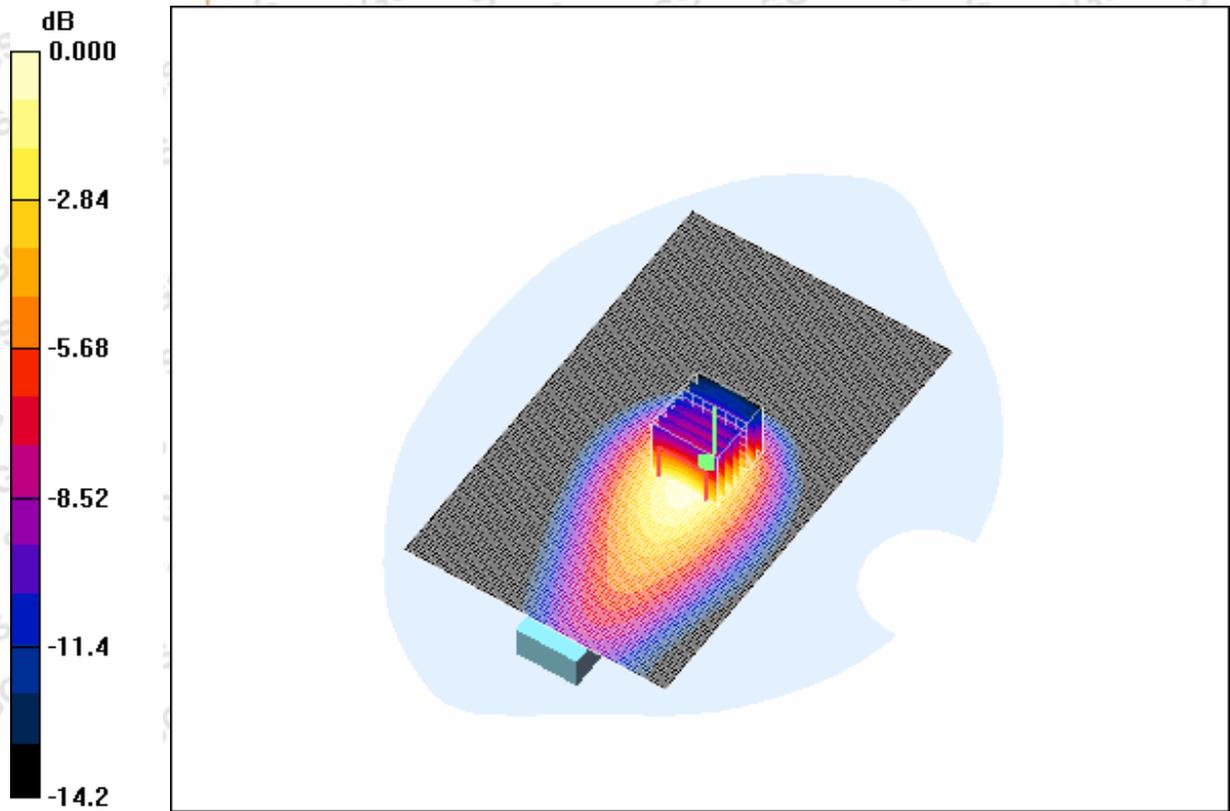
Reference Value = 14.4 V/m; Power Drift = 0.217 dB

Peak SAR (extrapolated) = 0.375 W/kg

SAR(1 g) = 0.189 mW/g; SAR(10 g) = 0.119 mW/g

Maximum value of SAR (measured) = 0.203 mW/g

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0 dB = 0.203mW/g

4.29 WCDMA 850-Body-Worn-WCDMA-Middle-P5

Date/Time: 2008-9-28 22:09:15

Test Laboratory: SGS-GSM

W850-Body-Worn-WCDMA-Mid-P5 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: WCDMA Band V ; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL900-Body Medium parameters used: $f = 836.4 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P5/Area Scan (81x131x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.039 mW/g

Body Worn - Middle P5/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

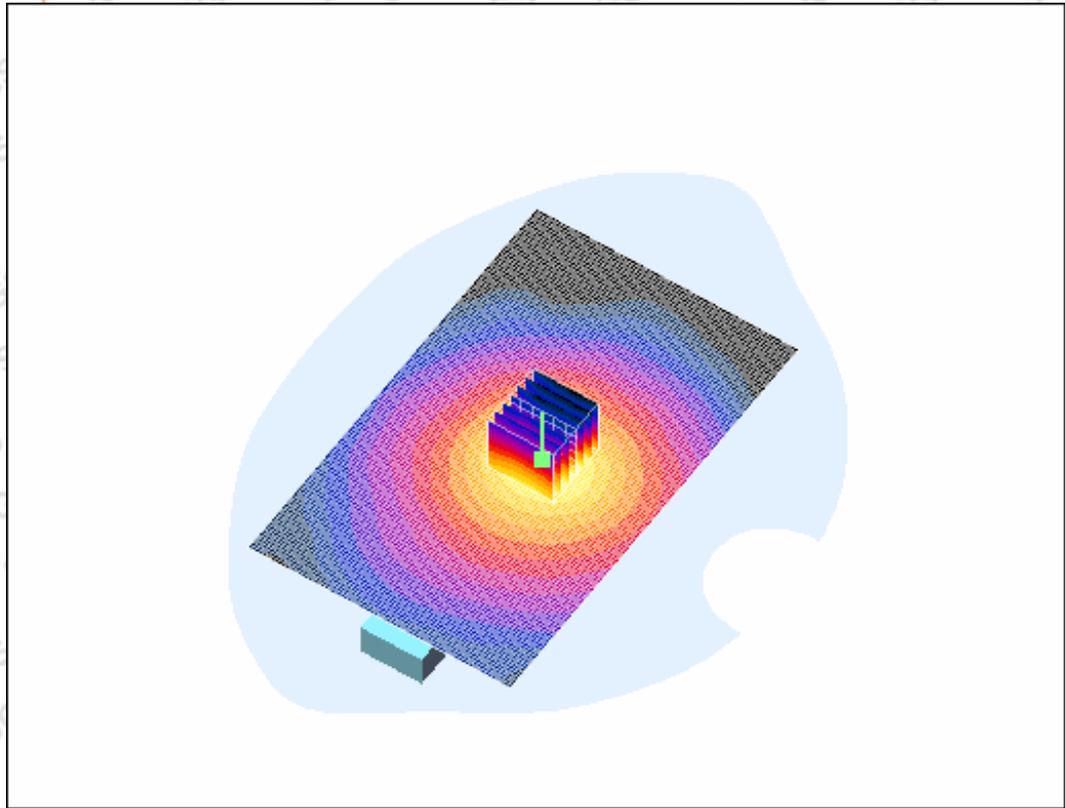
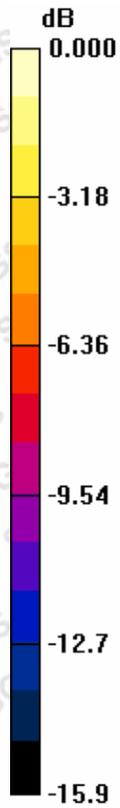
Reference Value = 6.93 V/m; Power Drift = 0.082 dB

Peak SAR (extrapolated) = 0.091 W/kg

SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.022 mW/g

Maximum value of SAR (measured) = 0.046 mW/g

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0 dB = 0.046mW/g

4.30 WCDMA850-Body-Worn-HSPA-Middle-P1

Blank

4.31 WCDMA 850-Body-Worn-HSPA-Middle-P2

Blank

4.32 WCDMA 850-Body-Worn-HSPA-Middle-P3

Blank

4.33 WCDMA 850-Body-Worn-HSPA-Middle-P4

Blank

4.34 WCDMA 850-Body-Worn-HSPA-Middle-P5

Blank

4.35 WCDMA 850-Body-Worn-WCDMA-Worstcase-Low

Blank

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4.36 WCDMA 850-Body-Worn- WCDMA-Worstcase-High
Blank

WCDMA 850-Body-Worn-HSPA- HSDPA-Worstcase-Low
Blank

WCDMA 850-Body-Worn-HSPA- HSDPA-Worstcase-High
Blank

4.37 WCDMA 1900-Body-Worn-WCDMA-Middle-P1

Date/Time: 2008-9-29 16:50:15

Test Laboratory: SGS-GSM

W1900-Body-Worn-WCDMA-Mid-P1 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

Communication System: WCDMA Band II ; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P1/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

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Maximum value of SAR (interpolated) = 1.25 mW/g

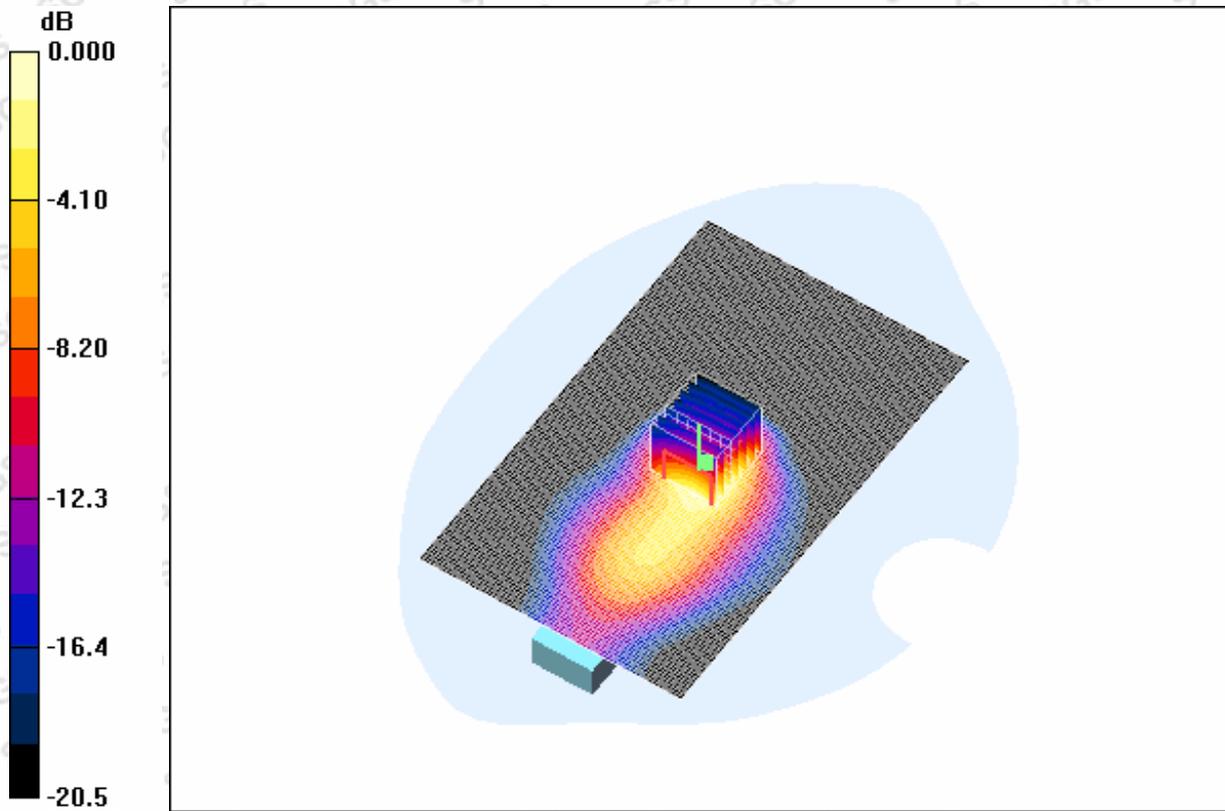
Body Worn - Middle P1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.5 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 0.872 mW/g; SAR(10 g) = 0.447 mW/g

Maximum value of SAR (measured) = 0.971 mW/g



0 dB = 0.971mW/g

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4.38 WCDMA 1900-Body-Worn-WCDMA-Middle-P2

Date/Time: 2008-9-29 14:47:05

Test Laboratory: SGS-GSM

W1900-Body-Worn-WCDMA-Mid-P2 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

Communication System: WCDMA Band II ; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.16 mW/g

Body Worn - Middle P2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.8 V/m; Power Drift = -0.329 dB

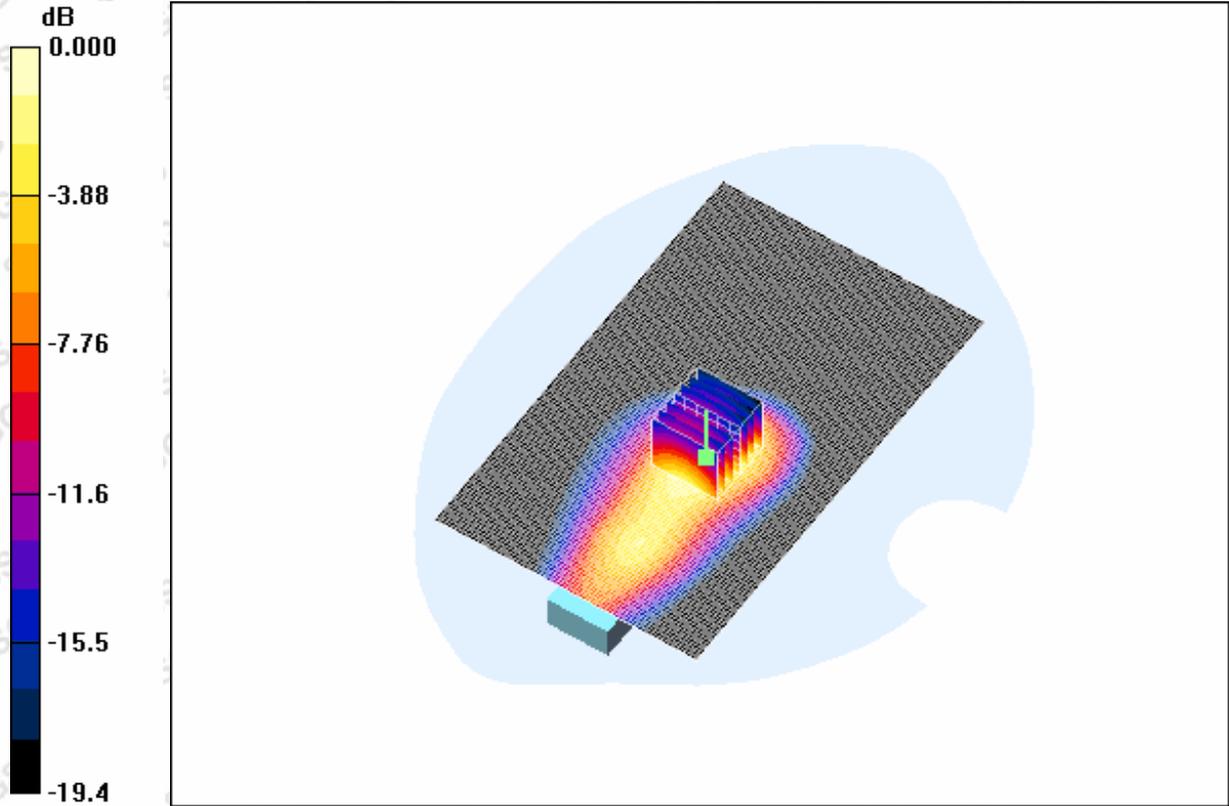
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SHGSM

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.997 mW/g; SAR(10 g) = 0.518 mW/g

Maximum value of SAR (measured) = 1.11 mW/g

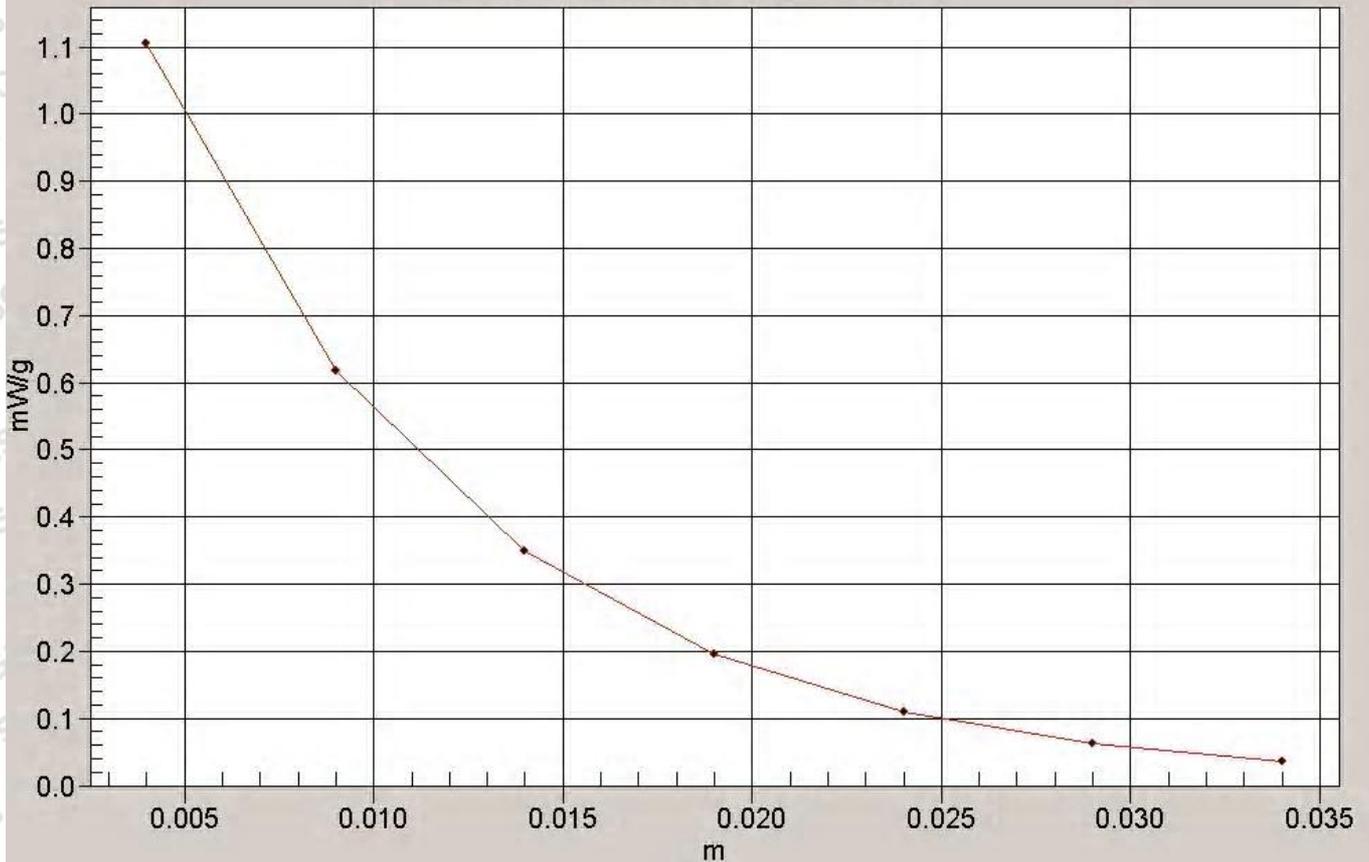


0 dB = 1.11mW/g

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1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=3, Y=3



WCDMA 1900-Body-Worn-WCDMA-Middle-P2 1cm

Date/Time: 2008-9-29 16:21:48

Test Laboratory: SGS-GSM

W1900-Body-Worn-WCDMA-Mid-P2 1cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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SHGSM

Communication System: WCDMA Band II ; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P2 10MM/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.446 mW/g

Body Worn - Middle P2 10MM/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

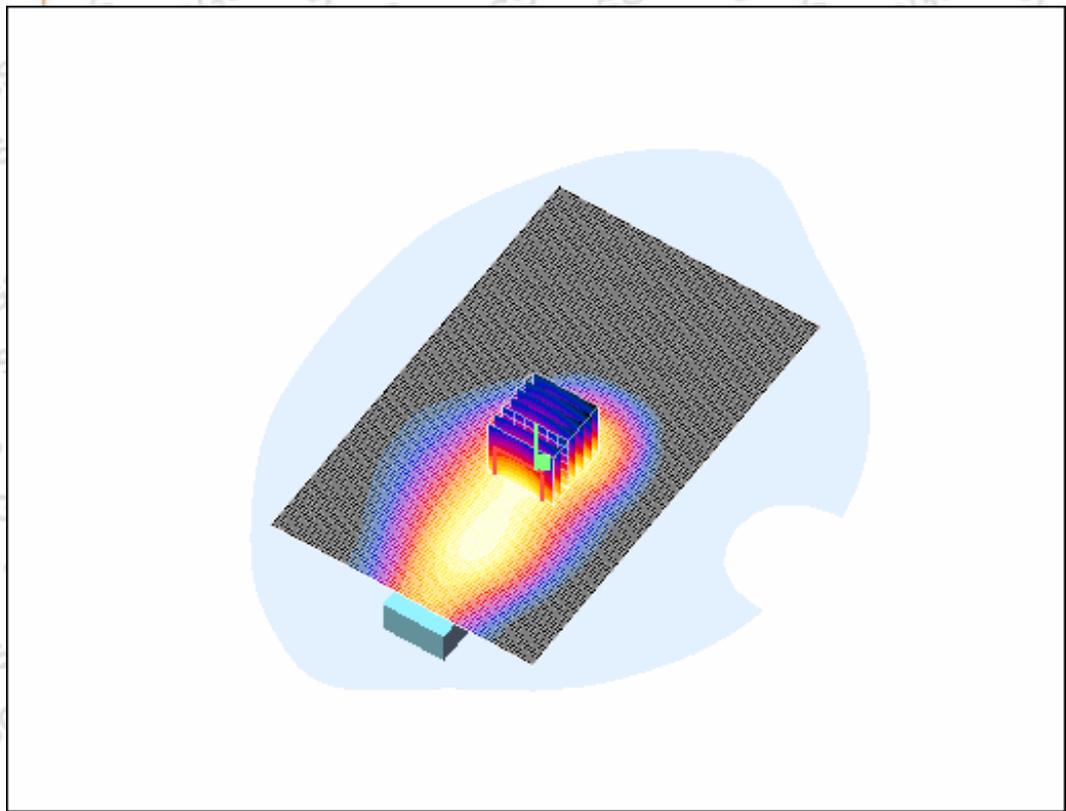
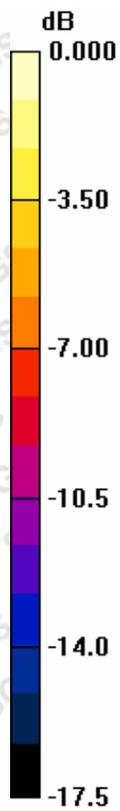
Reference Value = 14.0 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.698 W/kg

SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.233 mW/g

Maximum value of SAR (measured) = 0.455 mW/g

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0 dB = 0.455mW/g

4.39 WCDMA 1900-Body-Worn-WCDMA-Middle-P3

Date/Time: 2008-9-29 18:20:44

Test Laboratory: SGS-GSM

W1900-Body-Worn-WCDMA-Mid-P3 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: WCDMA Band II ; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P3/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.693 mW/g

Body Worn - Middle P3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

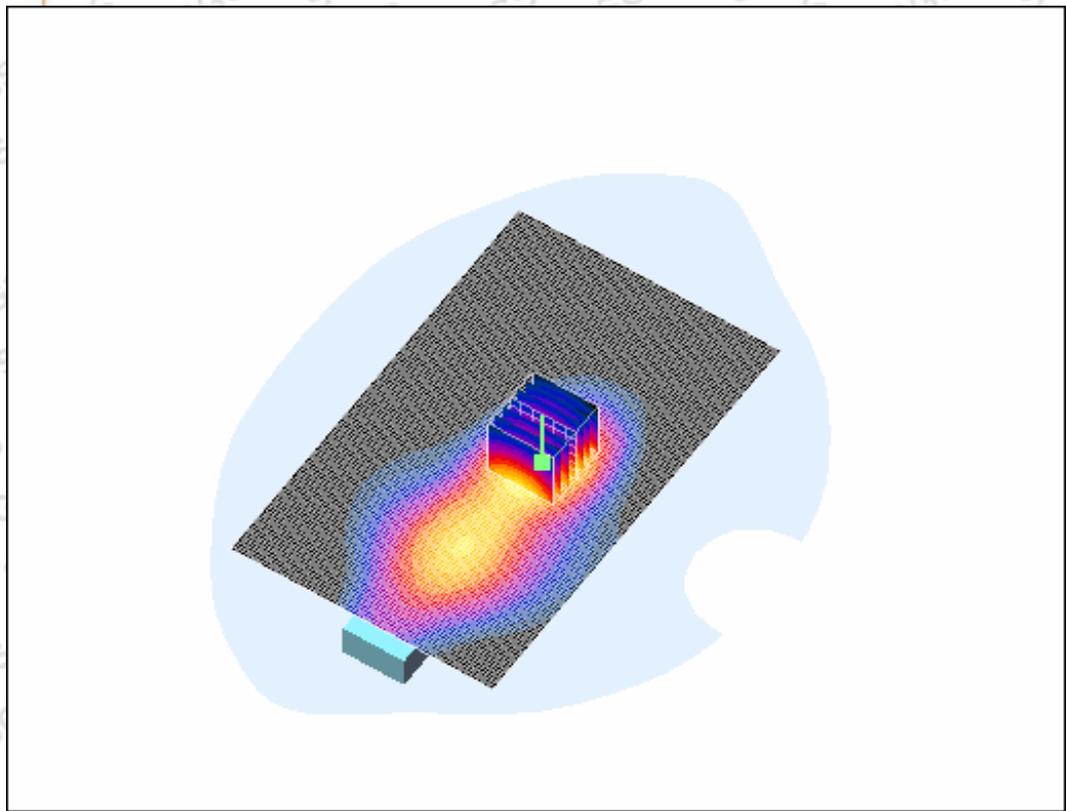
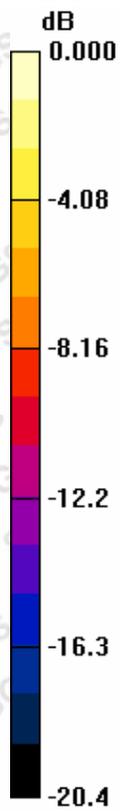
Reference Value = 18.1 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.274 mW/g

Maximum value of SAR (measured) = 0.681 mW/g

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0 dB = 0.681mW/g

4.40 WCDMA 1900-Body-Worn-WCDMA-Middle-P4

Date/Time: 2008-9-29 20:48:20

Test Laboratory: SGS-GSM

W1900-Body-Worn-WCDMA-Mid-P4 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: WCDMA Band II ; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P4/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.652 mW/g

Body Worn - Middle P4/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

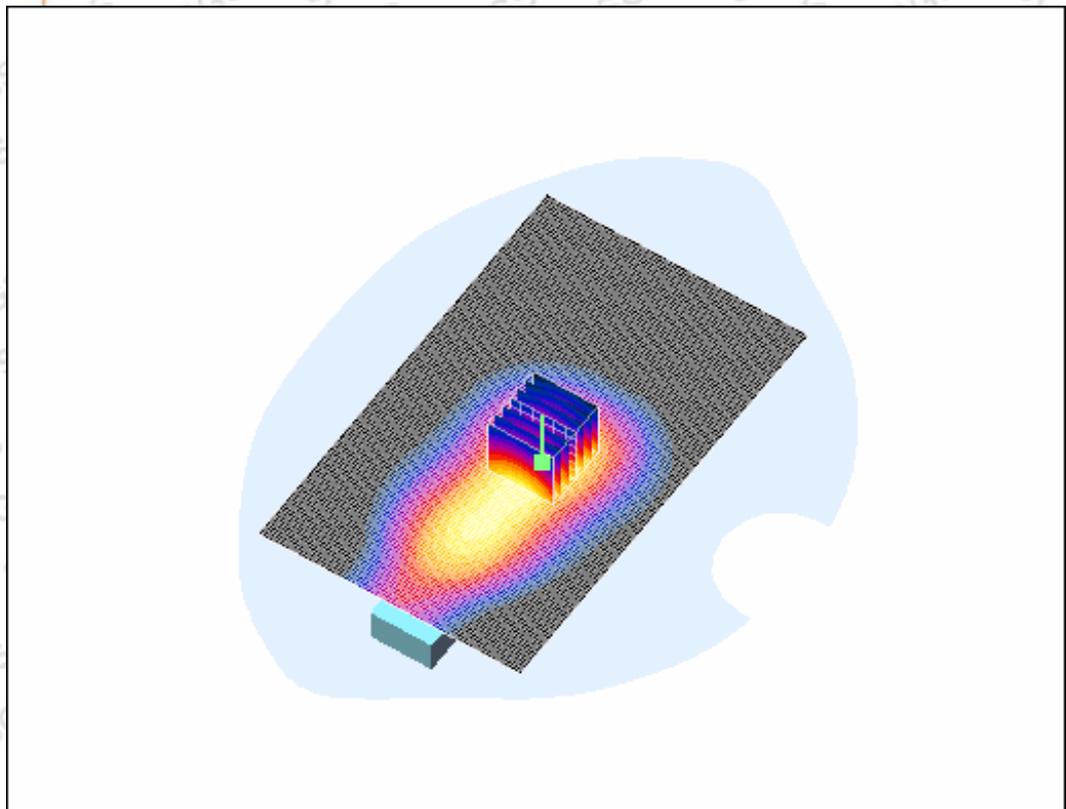
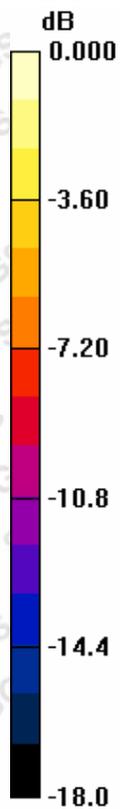
Reference Value = 18.5 V/m; Power Drift = 0.079 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.593 mW/g; SAR(10 g) = 0.313 mW/g

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

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0 dB = 0.661mW/g

4.41 WCDMA 1900-Body-Worn-WCDMA-Middle-P5

Date/Time: 2008-9-29 21:29:49

Test Laboratory: SGS-GSM

W1900-Body-Worn-WCDMA-Mid-P5 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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SHGSM

Communication System: WCDMA Band II ; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle P5/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

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

Body Worn - Middle P5/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

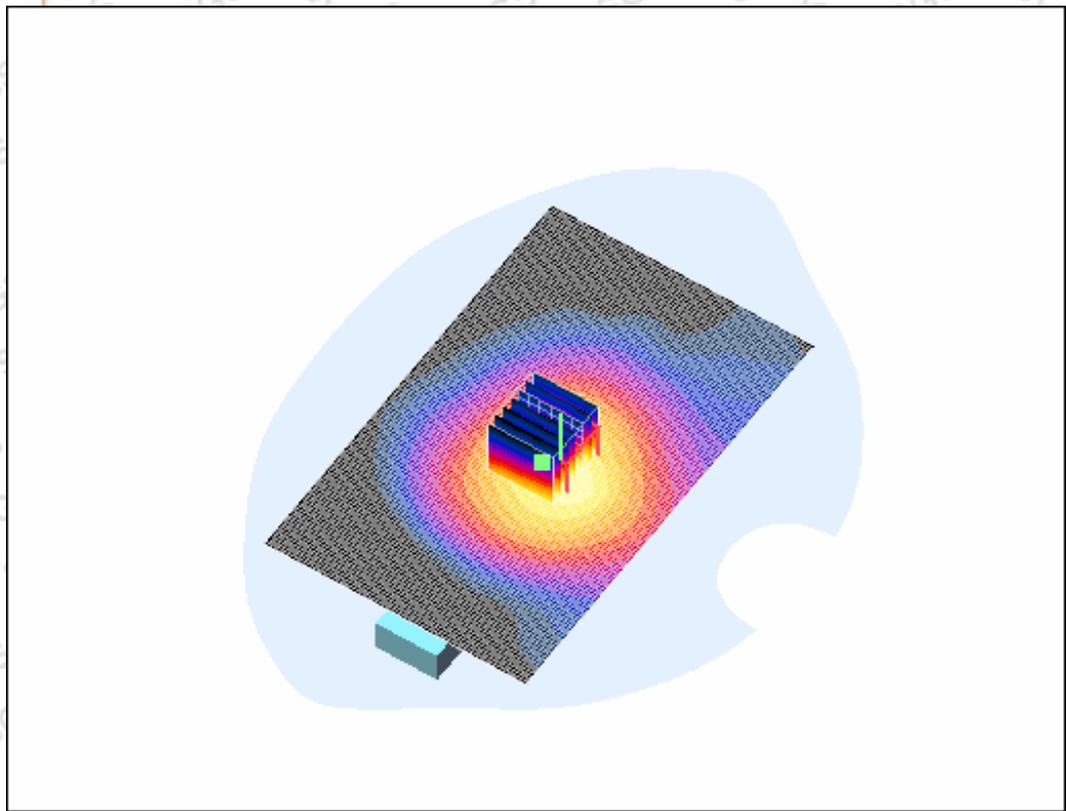
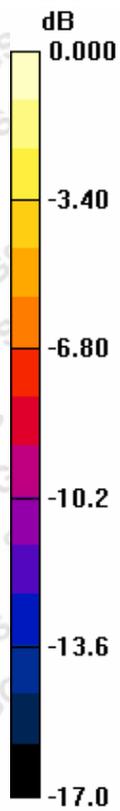
Reference Value = 9.94 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.329 W/kg

SAR(1 g) = 0.154 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.179 mW/g

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0 dB = 0.179mW/g

4.42 WCDMA 1900-Body-Worn-HSPA-Middle-P1

Date/Time: 2008-9-29 23:08:25

Test Laboratory: SGS-GSM

W1900-Body-Worn-HSDPA-Mid-P1 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: WCDMA Band II ; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900-Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle p1/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.855 mW/g

Body Worn - Middle p1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

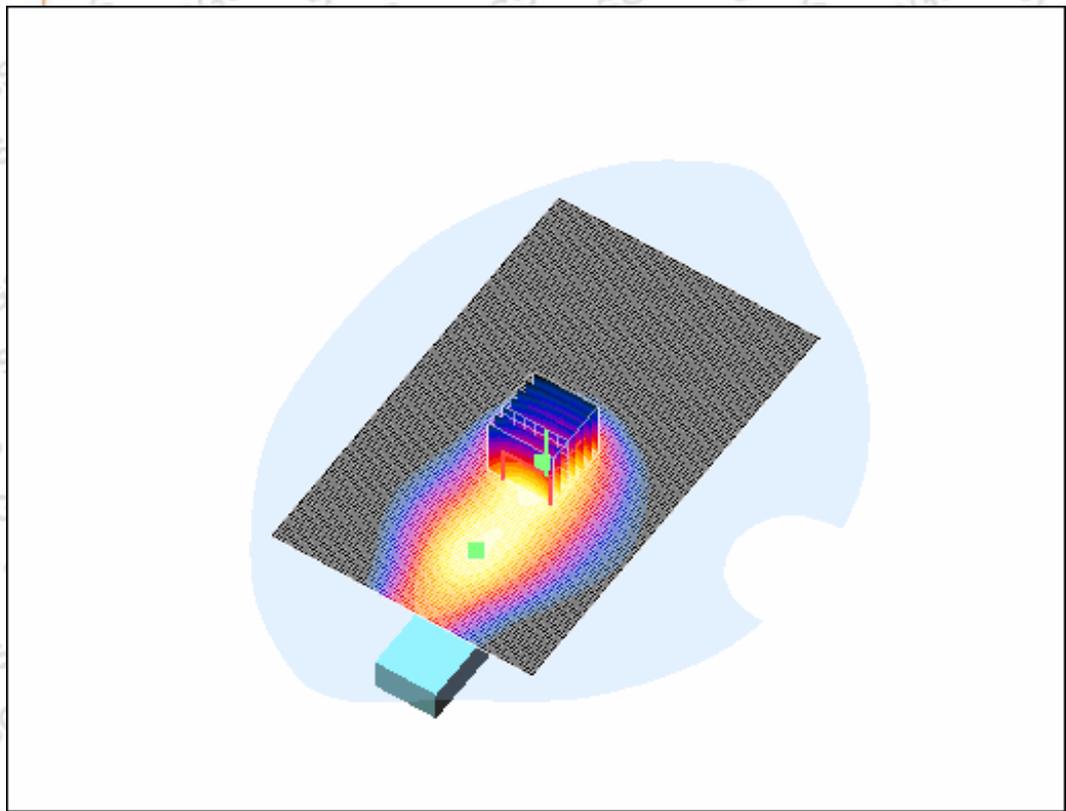
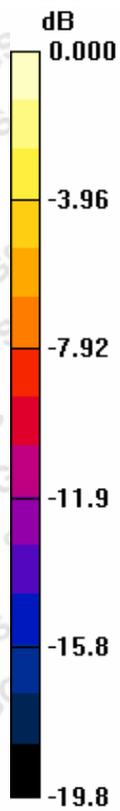
Reference Value = 16.2 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.718 mW/g; SAR(10 g) = 0.378 mW/g

Maximum value of SAR (measured) = 0.789 mW/g

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0 dB = 0.789mW/g

4.43 WCDMA 1900-Body-Worn-HSPA-Middle-P2

Date/Time: 2008-9-29 23:39:51

Test Laboratory: SGS-GSM

W1900-Body-Worn-HSDPA-Mid-P2 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: WCDMA Band II ; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900-Body Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Middle p2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.894 mW/g

Body Worn - Middle p2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

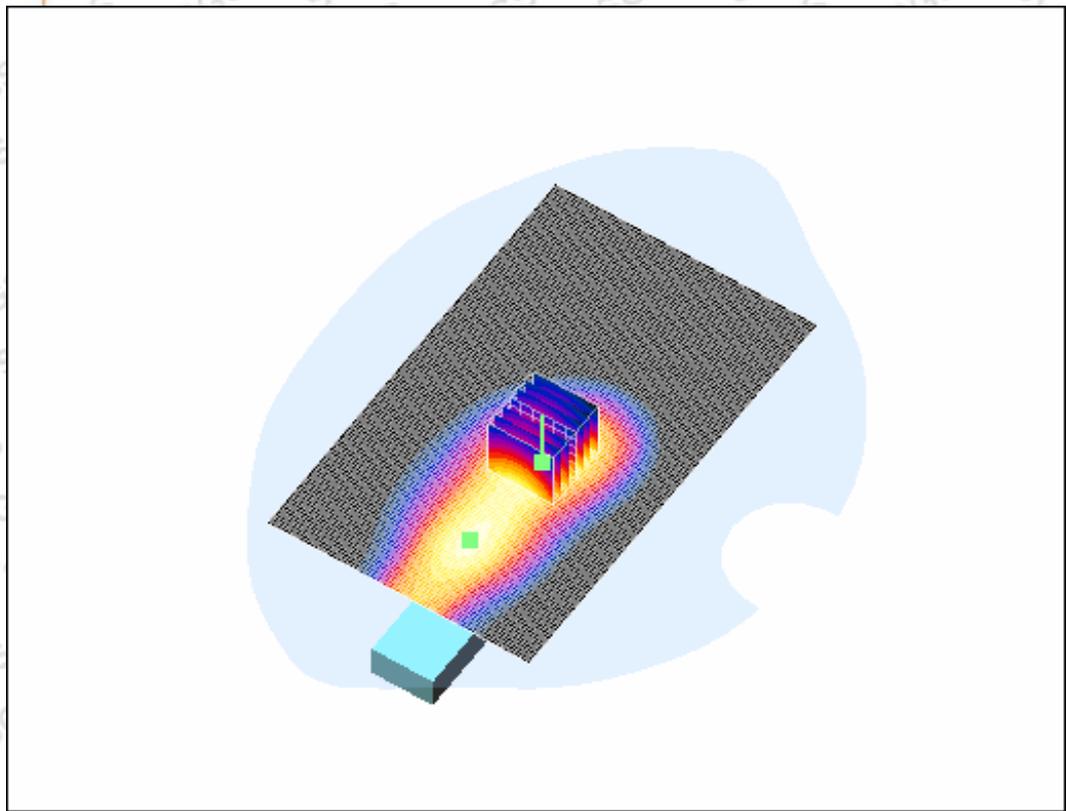
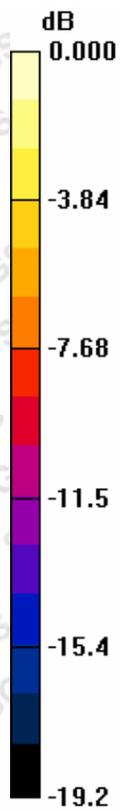
Reference Value = 18.2 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.822 mW/g; SAR(10 g) = 0.436 mW/g

Maximum value of SAR (measured) = 0.913 mW/g

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0 dB = 0.913mW/g

4.44 WCDMA 1900-Body-Worn-HSPA-Middle-P3

Blank

4.45 WCDMA 1900-Body-Worn- HSPA -Middle-P4

Blank

4.46 WCDMA 1900-Body-Worn- HSPA -Middle-P5

Blank

4.47 WCDMA1900-Body-Worn--WCDMA--Worstcase-Low

Date/Time: 2008-9-29 15:19:22

Test Laboratory: SGS-GSM

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W1900-Body-Worn-WCDMA-Low-P2 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

Communication System: WCDMA Band II ; Frequency: 1852.5 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used (interpolated): $f = 1852.5$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Low P2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.05 mW/g

Body Worn - Low P2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

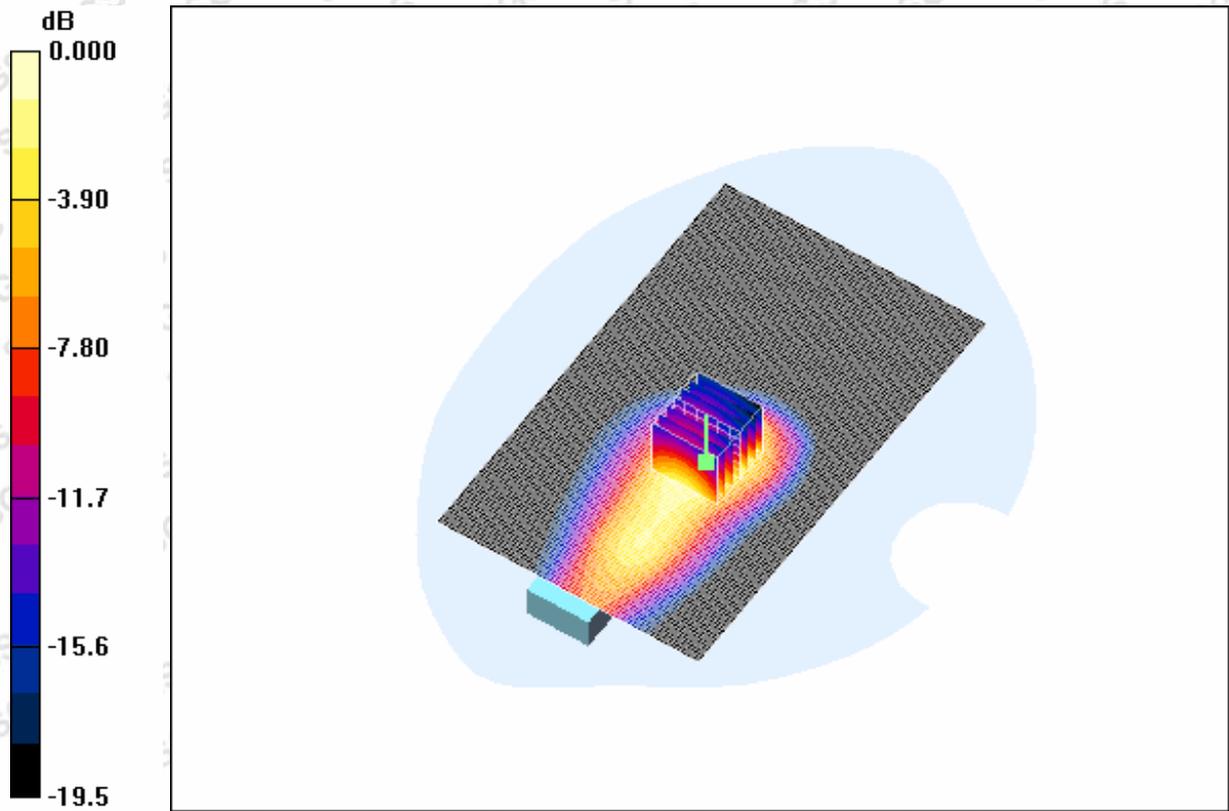
Reference Value = 19.7 V/m; Power Drift = -0.278 dB

Peak SAR (extrapolated) = 1.66 W/kg

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SAR(1 g) = 0.929 mW/g; SAR(10 g) = 0.489 mW/g

Maximum value of SAR (measured) = 1.03 mW/g



0 dB = 1.03mW/g

4.48 WCDMA1900-Body-Worn--WCDMA-- Worstcase-High

Date/Time: 2008-9-29 15:46:54

Test Laboratory: SGS-GSM

W1900-Body-Worn-WCDMA-High-P2 0.5cm

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DUT: KZ017AK01; Type: Body; Serial: 20080616

Communication System: WCDMA Band II ; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn -High P2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.02 mW/g

Body Worn -High P2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

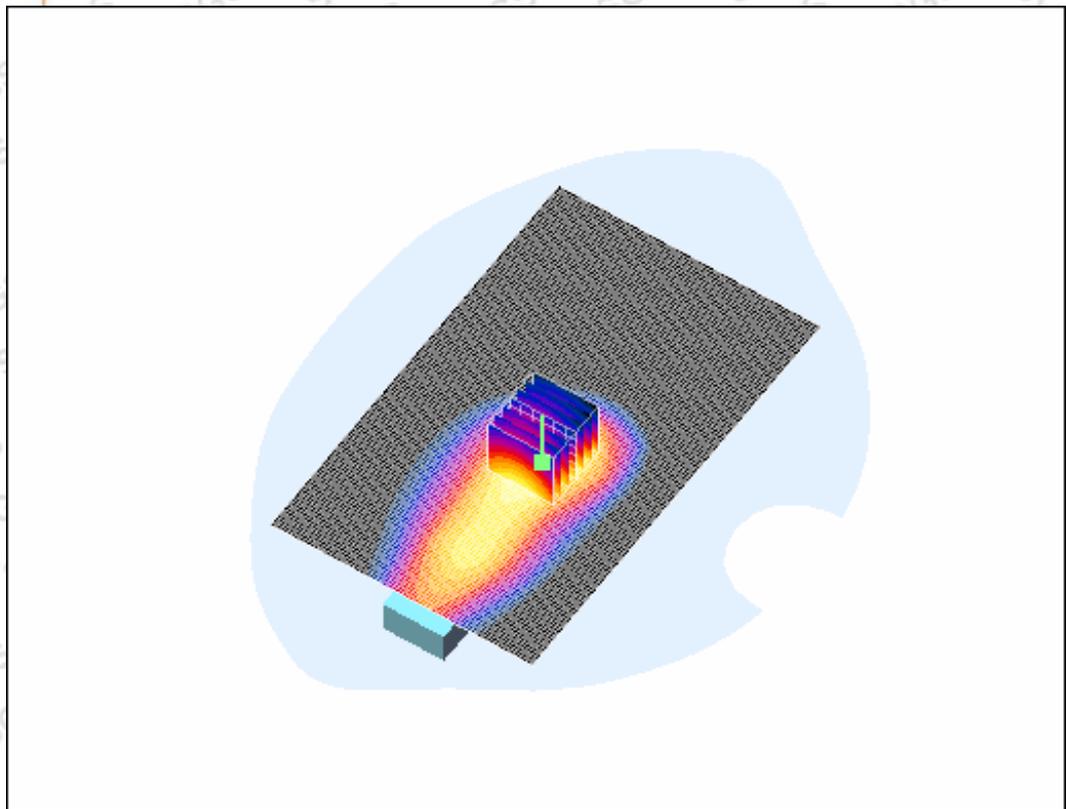
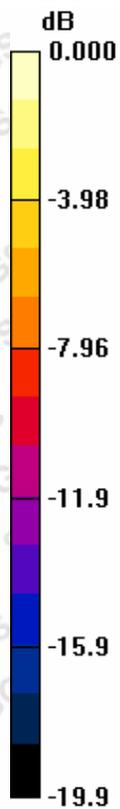
Reference Value = 18.4 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.907 mW/g; SAR(10 g) = 0.468 mW/g

Maximum value of SAR (measured) = 1.01 mW/g

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0 dB = 1.01mW/g

WCDMA1900-Body-Worn- WCDMA -P1-Low

Date/Time: 2008-9-29 17:18:28

Test Laboratory: SGS-GSM

W1900-Body-Worn-WCDMA-Low-P1 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: WCDMA Band II ; Frequency: 1852.5 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used (interpolated): $f = 1852.5$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn - Low P1/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.08 mW/g

Body Worn - Low P1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

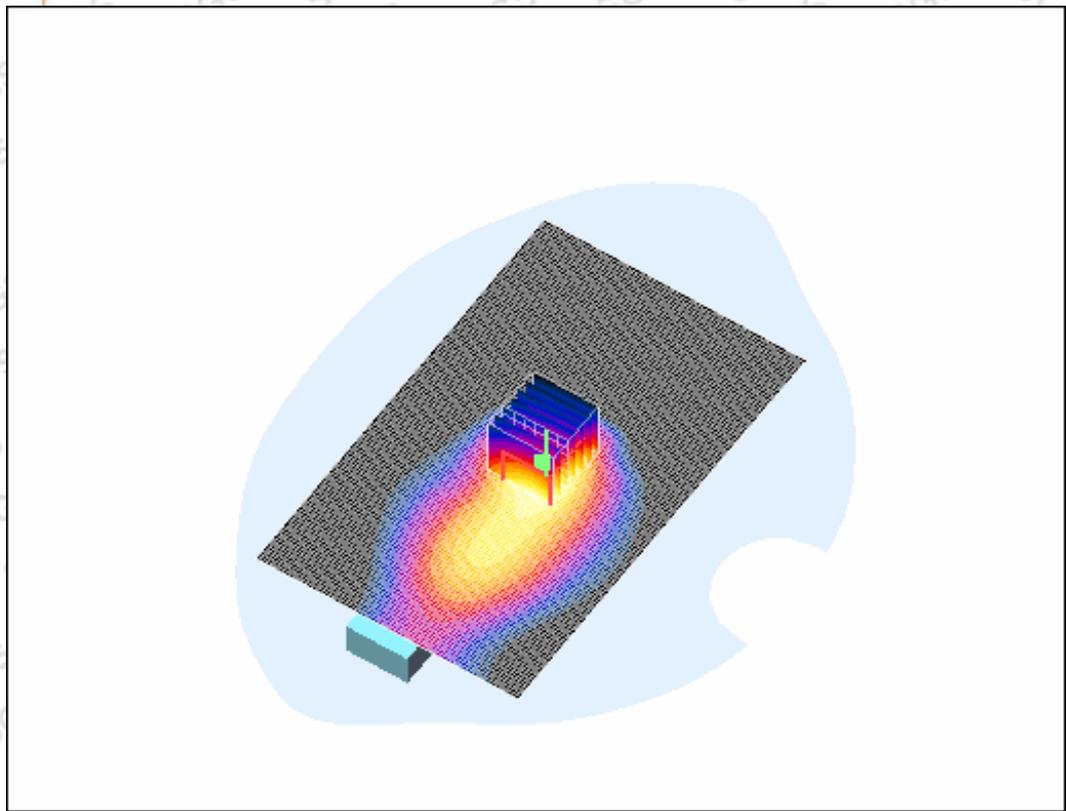
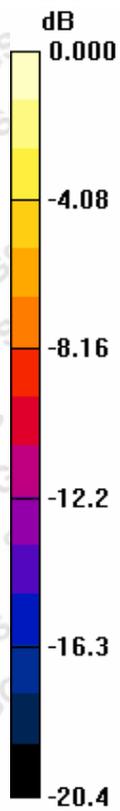
Reference Value = 21.3 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.796 mW/g; SAR(10 g) = 0.410 mW/g

Maximum value of SAR (measured) = 0.884 mW/g

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0 dB = 0.884mW/g

WCDMA1900-Body-Worn- WCDMA -P1-High

Date/Time: 2008-9-29 17:50:57

Test Laboratory: SGS-GSM

W1900-Body-Worn-WCDMA-High-P1 0.5cm

DUT: KZ017AK01; Type: Body; Serial: 20080616

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Communication System: WCDMA Band II ; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn -High P1/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.28 mW/g

Body Worn -High P1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

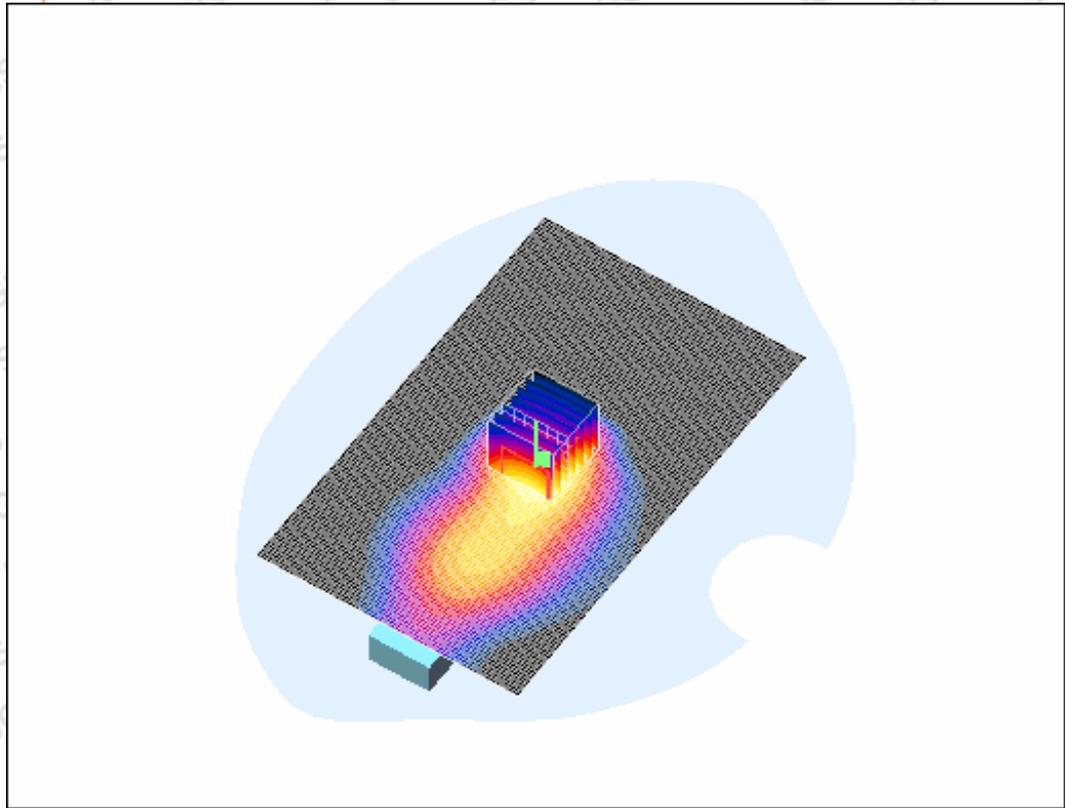
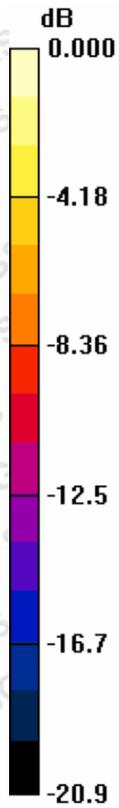
Reference Value = 22.2 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 0.901 mW/g; SAR(10 g) = 0.455 mW/g

Maximum value of SAR (measured) = 0.998 mW/g

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0 dB = 0.998mW/g

WCDMA1900-Body-Worn-HSPA-Worstcase-Low

Blank

WCDMA1900-Body-Worn- HSPA-Worstcase-High

Blank

System Performance Check

System Validation for 900MHz-Body-Worn

Date/Time: 2008-9-27 11:26:13

Test Laboratory: SGS-GSM

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SystemPerformanceCheck-D900-Body-0927

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:184

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: HSL900-Body Medium parameters used: $f = 900$ MHz; $\sigma = 1.03$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

$d=15$ mm, Pin=250mW 3/Area Scan (81x131x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 2.99 mW/g

$d=15$ mm, Pin=250mW 3/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

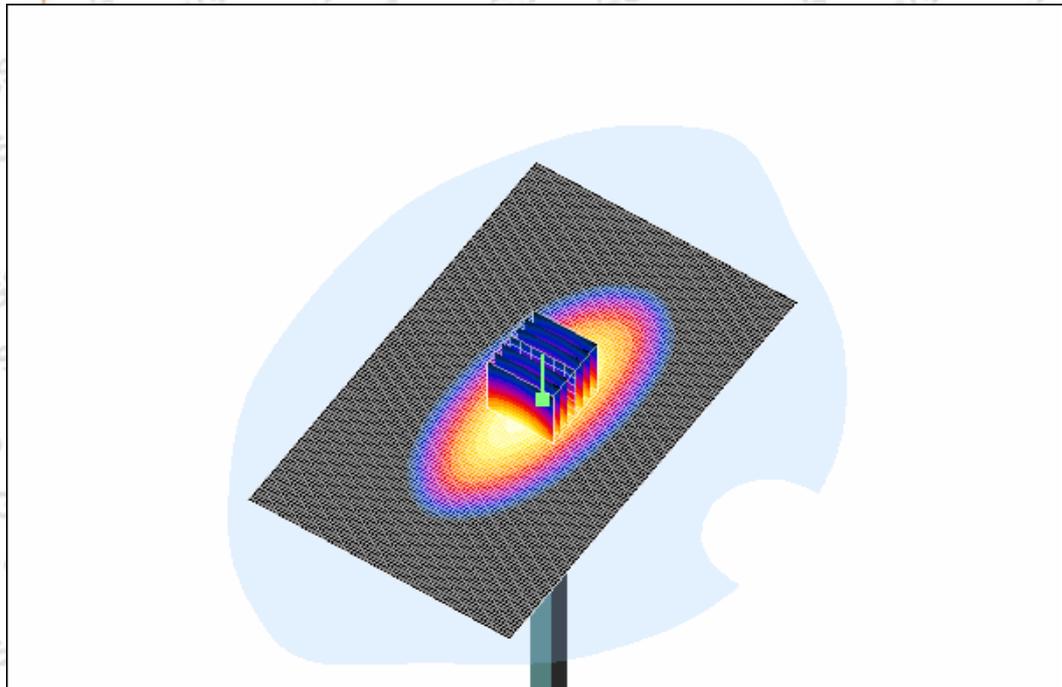
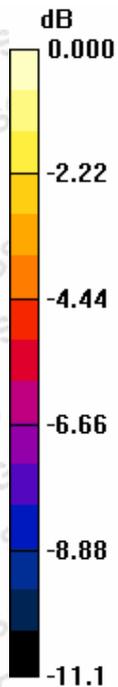
Reference Value = 53.2 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 4.37 W/kg

SAR(1 g) = 2.82 mW/g; SAR(10 g) = 1.79 mW/g

Maximum value of SAR (measured) = 3.07 mW/g

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0 dB = 3.07mW/g

System Validation for 900MHz-Body-Worn

Date/Time: 2008-9-28 14:12:36

Test Laboratory: SGS-GSM

SystemPerformanceCheck-D900-Body-0928

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:184

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: HSL900-Body Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 1.03 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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SHGSM

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.81, 5.81, 5.81); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

d=15mm, Pin=250mW/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 3.03 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

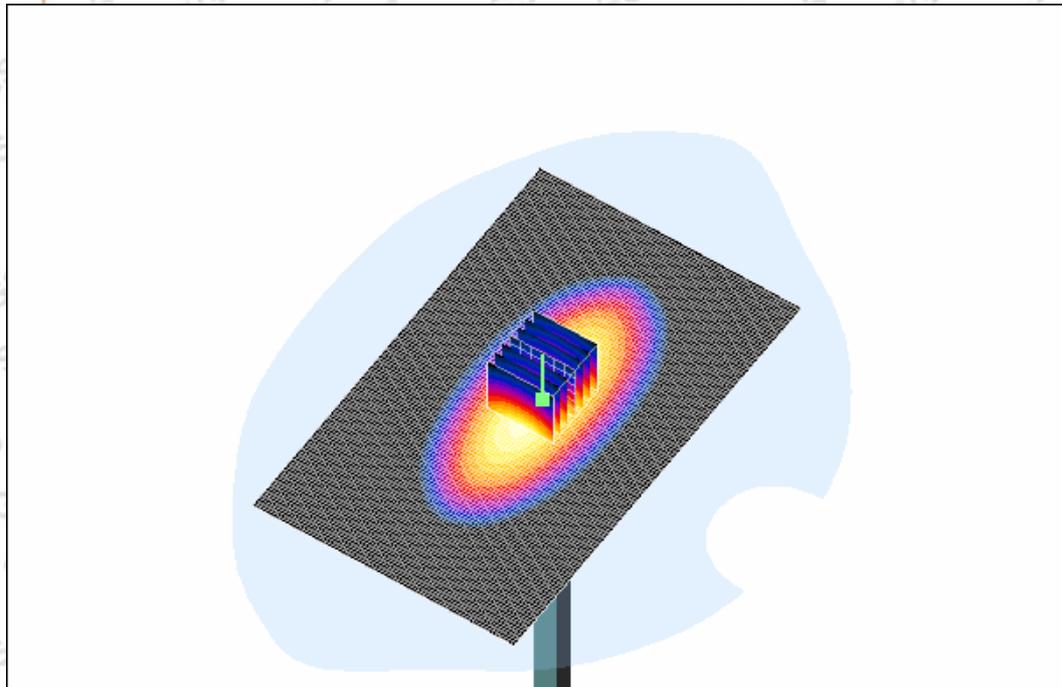
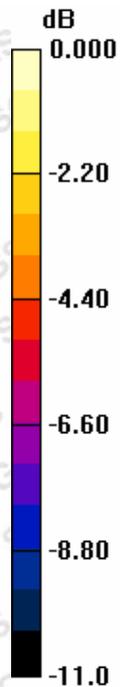
Reference Value = 51.6 V/m; Power Drift = -0.244 dB

Peak SAR (extrapolated) = 4.29 W/kg

SAR(1 g) = 2.76 mW/g; SAR(10 g) = 1.75 mW/g

Maximum value of SAR (measured) = 3.02 mW/g

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0 dB = 3.02mW/g

System Validation for 1900MHz-Body-Worn

Date/Time: 2008-9-29 12:46:35

Test Laboratory: SGS-GSM

SystemPerformanceCheck-D1900-Body-0929

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d028

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1900$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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SHGSM

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

d=10mm, Pin=250mW/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 9.48 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

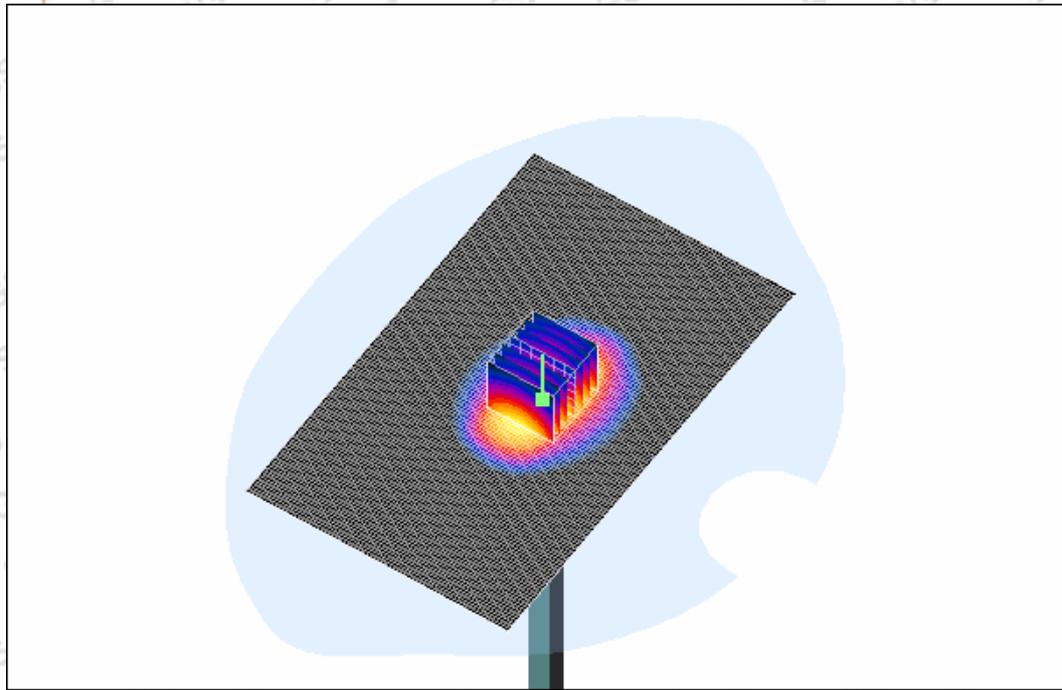
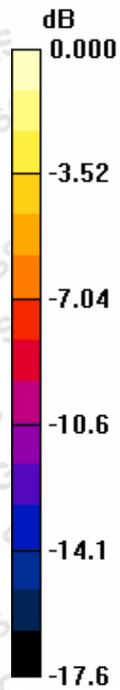
Reference Value = 77.6 V/m; Power Drift = 0.120 dB

Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 8.51 mW/g; SAR(10 g) = 4.39 mW/g

Maximum value of SAR (measured) = 9.65 mW/g

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0 dB = 9.65mW/g

System Validation for 1900MHz-Body-Worn

Date/Time: 2008-9-30 10:26:46

Test Laboratory: SGS-GSM

SystemPerformanceCheck-D1900-Body-0930

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d028

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900_Body Medium parameters used: $f = 1900$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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SHGSM

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

d=10mm, Pin=250mW 2/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.1 mW/g

d=10mm, Pin=250mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

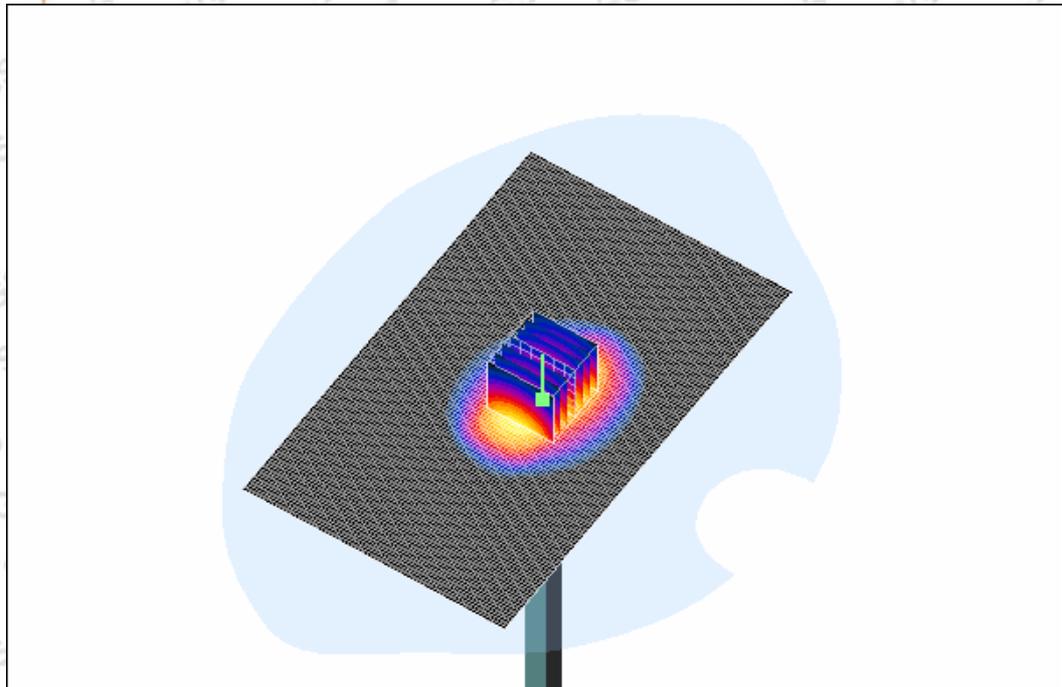
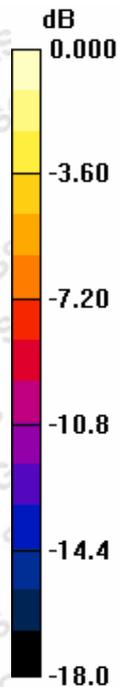
Reference Value = 80.2 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 8.78 mW/g; SAR(10 g) = 4.5 mW/g

Maximum value of SAR (measured) = 9.97 mW/g

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0 dB = 9.97mW/g

System Validation for 1900MHz-Body-Worn

Date/Time: 2008-10-21 15:10:27

Test Laboratory: SGS-GSM

SystemPerformanceCheck-D1900-Body-1021

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d028

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900-Body Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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SHGSM

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.6, 4.6, 4.6); Calibrated: 2008-1-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2007-11-19
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

d=15mm, Pin=250mW 2/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.6 mW/g

d=15mm, Pin=250mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

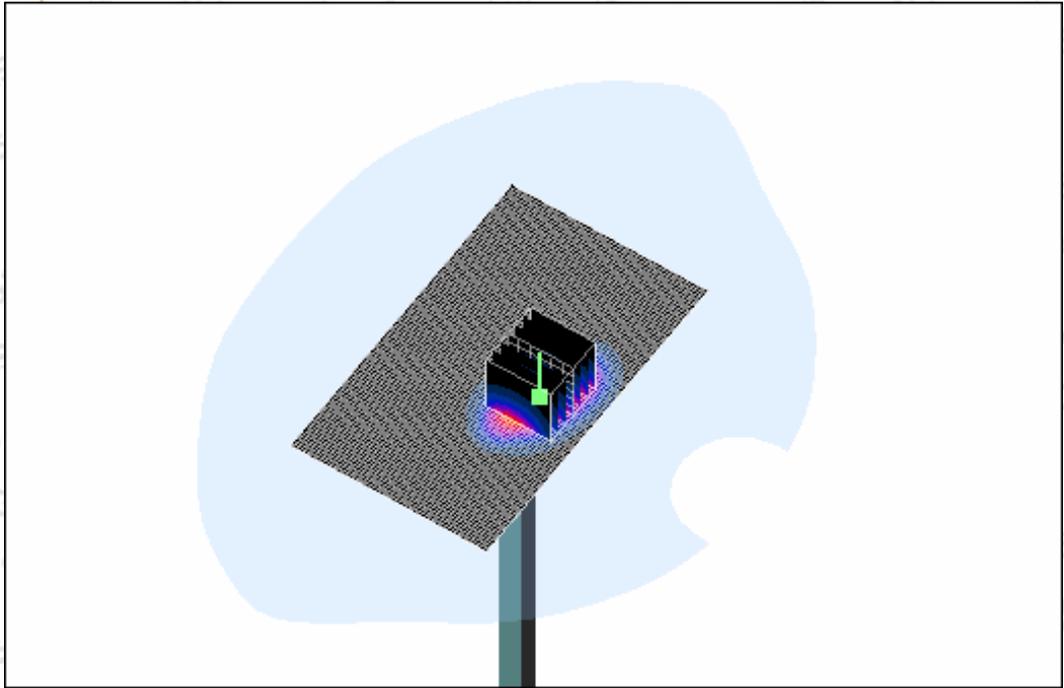
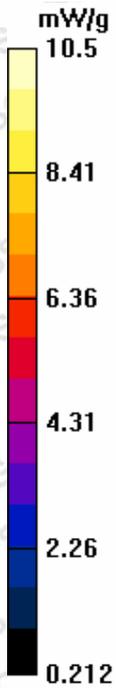
Reference Value = 34.0 V/m; Power Drift = 0.160 dB

Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 9.26 mW/g; SAR(10 g) = 4.87 mW/g

Maximum value of SAR (measured) = 10.5 mW/g

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