SAR TEST REPORT Report No. : ES/2008/90009 Page : 1 of 157

Equipment Under Test	HSDPA USB Data Modem
Model Number	C152
Brand Name	BandLuxe [™]
Company Name	BandRich Inc.
Company Address	8F., No. 188, Baociao Rd., Sindian City, Taipei County
	23146, Taiwan (R.O.C.)
Date of Receipt	2008.09.10
Date of Test(s)	2008.09.17-2008.09.19
Date of Issue	2008.09.30

Standards:

may be prosecuted to the fullest extent of the law.

FCC OET Bulletin 65 supplement C, ANSI/IEEE C95.1, C95.3, IEEE 1528

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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		Ricky Muang			
Tested by	: Ricky Huang		Date	:	2008.09.30
	Asst. Supervise	or			
		Poolert Chang			
Approved by	: Robert Chang	0	Date	:	2008.09.30
	Tech. Manager	•	-	_	
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1. General Information

1.1 Testing Laboratory

<u> </u>			-
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134, Wu Kung Road	l, Wuku industrial zone		
Taipei county, Taiwa	an, R.O.C.		
Telephone	+886-2-2299-3279		X
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Internet	http://www.tw.sgs.com/		

1.2 Details of Applicant

Company Name	BandRich Inc.			
Company Address	8F., No. 188, Baociao Rd., Sindian City, Taipei County			
Company Address	23146, Taiwan (R.O.C.)			
Contact Person	Sandy Cheng / Deputy Engineer			
TEL	(02)8914-6588#317			
Fax	(02)7705-1087			
E-mail	sandy@bandrich.com			
Website	http://www.bandrich.com/			

1.3 Description of EUT

EUT Name	HSDPA USB Data Modem						
Brand Name	2	BandLuxe [™]					
Model Number		C152					
FCC ID	UZI-C152						
IMEI Code	35588302						
Mode of Operation	GSM /GPRS/EDGE/WCDMA/HSDPA band						
Modulation mode		GMSK/QPSK	/8PSK/16QAM				
Duty Cycle	GSM GPRS/EDGE WCDMA BAND2			WCDMA BAND5			
	1/8 1/2 1						
Maximum RF Conducted Power	GSM 850	PCS 1900	WCDMA BAND2	WCDMA BAND5			
(Average)	28	25.2	23.47	22.65			

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Max. SAR Measured (1 g)	0.866W/kg At WCDMA BAND2_CH9400_ repeated with HSDPA mode_ Configuration 1				
Antenna Type	Internal Antenna				
(ARFCN)	128-251	512-810	9262-9538	4132-4233	
Channel Number	GSM 850	PCS 1900	WCDMA BAND2	WCDMA BAND5	
(MHz)	824.2- 848.8	1850.2- 1909.8	1852.4- 1907.6	826.4- 846.6	
TX Frequency Range	GSM 850	PCS 1900	WCDMA BAND2	WCDMA BAND5	

Note:

1. EGPRS mode was not measured because maximum averaged output power is 3 dB lower than in GPRS mode.

1.4 Test Environment

Ambient Temperature: 22.2° C Tissue Simulating Liquid: 21.7° C Relative Humidity: 62 %

1.5 Operation description

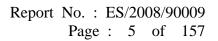
The EUT is a USB Data Modem. When we use it, it will be defined as a portable device since the Notebook will place on the thigh, so SAR measurement is mandatory. The EUT is controlled by using a Communication simulate Tester (R&S CMU200), and the communication between the EUT and the tester is established by air link. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.

Value of Crest Factors are 2 for GPRS mode (multi-slot=4) and 1 for WCDMA Band 2 & WCDMA Band5 were used for SAR testing according to the nature of the EUT. The test configuration tested at the low, middle and high frequency channels. By using the program subordinated in the computer, and change into the written channel, and then

test of set in highest power. Finally, we will test it by dividing into 6 configurations: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部份複製。 This Test Report is issued by the Company under its General Conditions of Service which is available on request or accessible at <u>http://www.sgs.com/terms and conditions.htm</u>. Attention is drawn

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Configuration 1: Front side of the EUT is paralleled with flat phantom, and spacing between EUT and Phantom is 4 mm. (Appendix-Fig.3)

Configuration 2: Rear side of the EUT is paralleled with flat phantom, and spacing between EUT and Phantom is 4 mm. (Appendix-Fig.4)

Configuration 3: Right side of the EUT is paralleled with flat phantom, and spacing between EUT and Phantom is 4 mm. (Appendix-Fig.5)

Configuration 4: Left side of the EUT is paralleled with flat phantom, and spacing between EUT and Phantom is 4 mm. (Appendix-Fig.6)

Configuration 5: Bottom side of the Notebook is paralleled and contacted with flat phantom. (Appendix-Fig.7)

Configuration 6: Top side of the EUT is paralleled with flat phantom, and spacing between EUT and Phantom is 4 mm. (Appendix-Fig.8)

1.6 EVALUATION PROCEDURES

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- 1. The extraction of the measured data (grid and values) from the Zoom Scan.
- 2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- 3. The generation of a high-resolution mesh within the measured volume
- 4. The interpolation of all measured values from the measurement grid to the high-resolution grid
- 5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- 6. The calculation of the averaged SAR within masses of 1g and 10g. The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software

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always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within –2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans.

The routines are verified and optimized for the grid dimensions used in these cube measurements. The measured volume of 30x30x30mm contains about 30g of tissue. The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is the moved around until the highest averaged SAR is found. If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

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1.7 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 5 professional system). A Model ES3DV3 3172-field probe is used to determine the internal electric fields.

The SAR can be obtained from the equation SAR= σ ($|Ei|^2$)/ ρ where σ and ρ are the conductivity and mass density of the tissue-simulant.

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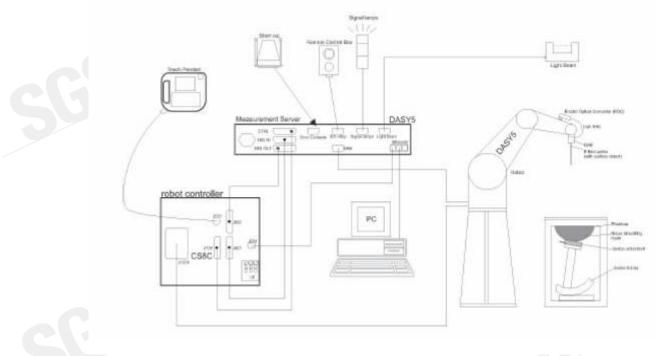


Fig.a The Bloack diagram of SAR system.

The DASY5 system for performing compliance tests consists of the following items:

• A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).

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- 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.
- 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.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- 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.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
 - A computer operating Windows 2000 or Windows XP.
 - DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
 - The SAM twin phantom enabling testing left-hand and right-hand usage.
 - The device holder for handheld mobile phones.
 - Tissue simulating liquid mixed according to the given recipes.
 - Validation dipole kits allowing to validate the proper functioning of the system.

1.8 System Components

ES3DV3 E-Field Probe

LJJDVJ L-HIC		
Construction:	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	/
Calibration:	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL835/1900 Additional CF for other liquids and frequencies upon request	ES3DV3 E-Field Probe
Frequency:	10 MHz to > 3 GHz; Linearity: ± 0.6 dB (30	MHz to 6 GHz)

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Directivity:	± 0.3 dB in HSL (rotation around probe axis)					
	± 0.5 dB in tissue material (rotation normal to probe axis)					
Dynamic Range:	10 μ W/g to > 100 mW/g;					
	Linearity: ± 0.6 dB (noise: typically < 1 µW/g)					
Dimensions:	Overall length: 337 mm (Tip: 10 mm)					
	Tip diameter: 4mm (Body: 10 mm)					
	Typical distance from probe tip to dipole cente					
Application:	High precision dosimetric measurements in any (e.g., very strong gradient fields). Only probe compliance testing for frequencies up to 6 GHz 30%.	which enables				
SAM PHANTOM	V4.0C					
Construction:	The shell corresponds to the specifications of t Anthropomorphic Mannequin (SAM) phantom of 1528-200X, CENELEC 50361 and IEC 62209. It enables the dosimetric evaluation of left and usage as well as body mounted usage at the fl cover prevents evaporation of the liquid. Refer- phantom allow the complete setup of all prede positions and measurement grids by manually with the robot.	defined in IEEE right hand phone at phantom region. A ence markings on the fined phantom				
Shell Thickness:	2 ± 0.2 mm					
Filling Volume:	Approx. 25 liters					
Dimensions:	Height: 850 mm; Length: 1000 mm; Width: 500 mm					
DEVICE HOLDE	R					
Construction	In combination with the Twin SAM Phantom V4.0/V4.0C or Twin SAM, the Mounting Device (made from POM) enables the rotation of the mounted transmitter in spherical coordinates, whereby the rotation point is the ear opening. The devices can be easily and accurately positioned according to IEC, IEEE, CENELEC, FCC or other specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).	Device Holder				

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1.9 SAR System Verification

The 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 +/- 5% from the target SAR values. These tests were done at 850/1900MHz. 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. During the tests, the ambient temperature of the laboratory was in the

range 22.2°C, the relative humidity was in the range 62% 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.

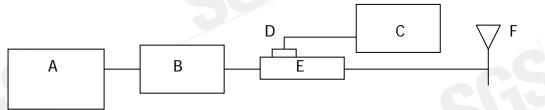


Fig.b The microwave circuit arrangement used for SAR system verification

- A. Agilent Model 8648D Signal Generator
- B. Mini circuits Model ZHL-42 Amplifier
- C. Agilent Model E4416A Power Meter
- D. Agilent Model 8481H Power Sensor
- E. Agilent Model 778D Dual directional coupling
- F. Reference dipole antenna



Photograph of the dipole Antenna

Validation Kit	Frequency (MHz)	Target SAR (1g) (Pin=250mW)	Measured SAR (1g)	Variation	Measured Date
D835V2 S/N: 4d063	835 MHz (Body)	2.44m W/g	2.34mW/g	4%	2008/9/17

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D835V2 S/N: 4d063	835 MHz (Body)	2.44m W/g	2.33mW/g	4.5%	2008/9/19
D1900V2 S/N: 5d027	1900 MHz (Body)	9.64m W/g	9.6mW/g	0.4%	2008/9/17
D1900V2 S/N: 5d027	1900 MHz (Body)	9.64m W/g	9.54mW/g	1%	2008/9/18

Table 1. System validation (follow manufacture target value)

1.10 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the HP Model 85070D Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjuncation with HP 8753D Network Analyzer (30 KHz-6000MHz) by using a procedure detailed in Section V.

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the ear reference point of the phantom was 15cm±5mm during all tests. (Appendix Fig .2)

Froquopey		Measurement date/	Dielectric Parameters		
Frequency (MHz)	Tissue type	Limits	ρ	σ (S/m)	Simulated Tissue Temperature(°C)
850		Measured, 2008.09.17	56.2	0.955	21.7
Body	Recommended Limits	52.3-57.8	0.92-1.1	20-24	
850 Body		Measured, 2008.09.19	56.3	0.955	21.7
	Body	Recommended Limits	52.3-57.8	0.92-1.1	20-24
1900		Measured, 2008.09.17	52.4	1.46	21.7
1900	Body	Recommended Limits	50.6-56	1.38-1.6	20-24
1900		Measured, 2008.09.18	52.4	1.47	21.7
	Body	Recommended Limits	50.6-56	1.38-1.6	20-24

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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Ingredient	850MHz (Body)	1900MHz (Body)
DGMBE	Х	300.67g
Water	631.68 g	716.56 g
Salt	11.72 g	4.0 g
Preventol	1.2 g	х
D-7	1.2 Y	Λ
Cellulose	X	Х
Sugar	600 g	Х
Total	1 L	1L
amount	1.0kg)	(1.0kg)

The composition of the brain tissue simulating liquid for 850 & 1900 band:

Table 3. Recipes for tissue simulating liquid

1.11 Test Standards and Limits

According to FCC 47CFR §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, 3 kHz to 300 GHz," ANSI/IEEE C95.1–1992, Copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

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(1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube). Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

(2) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section. (Table .6)

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR (Brain)	1.60 m W/g	8.00 m W/g
Spatial Average SAR (Whole Body)	0.08 m W/g	0.40 m W/g
Spatial Peak SAR (Hands/Feet/Ankle/Wrist)	4.00 m W/g	20.00 m W/g

Table .4 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.

2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

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GSM 850 MHZ

	1 : Front s		e EUT is paralleled w	ith flat phantom a	nd spacein	a between
			om is 4mm.			
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Average)	1g	Temp[°C]	Temp[°C]
	128	824.2	27.9dbm	0.162	22.1	21.7
850 MHz	190	836.6	28 dbm	0.146	22.1	21.7
	251	848.8	28 dbm	0.126	22.1	21.7
Configuratior			e EUT is parallelled w	ith flat phantom, a	nd spacein	g between
F			om is 4mm.		A I.	1.1. 1.1
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb.	Liquid Temp[°C]
			Tower (Average)	'9	ICHIP[0]	
	128	824.2	27.9 dbm	0.123	22.1	21.7
850MHz	190	836.6	28 dbm	0.117	22.1	21.7
	251	848.8	28 dbm	0.107	22.1	21.7
Configuration	-		e EUT is parallelled w	ith flat phantom, a	nd spacein	g between
		d phanto	om is 4mm.			
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Average)	1g	Temp[C]	Temp[°C]
	128	824.2	27.9 dbm	0.117	22.1	21.7
850 MHz	190	836.6	28 dbm	0.114	22.1	21.7
	251	848.8	28 dbm	0.111	22.1	21.7
Configuratior			EUT is parallelled wi om is 4mm.	th flat phantom, ar	nd spaceing	g between
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Average)	1g		Temp[°C]
	128	824.2	27.9 dbm	0.111	22.1	21.7
850 MHz	190	836.6	28 dbm	0.11	22.1	21.7
	251	848.8	28 dbm	0.098	22.1	21.7
Configuratior	15:Bottom	side of	the Notebook is para	Illeled and contacte	ed with flat	phantom.
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Average)	1g	Temp[°C]	Temp[°C]

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EUT and phantom is 4mm.							
Configuration	6: Top sid	e of the l	EUT is parallelled wit	h flat phantom, a	nd spaceing	g between	
	251	848.8	28 dbm	0.084	22.1	21.7	
850 MHz	190	836.6	28 dbm	0.089	22.1	21.7	
	128	824.2	27.9 dbm	0.085	22.1	21.7	

	LOT UN					
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
	/		Power (Average)	1g	Temp[°C]	Temp[°C]
	128	824.2	27.9 dbm	0.077	22.1	21.7
850 MHz	190	836.6	28 dbm	0.074	22.1	21.7
	251	848.8	28 dbm	0.07	22.1	21.7

PCS 1900 MHZ

Configuratior			e EUT is paralleled w om is 4mm.	ith flat phantom, a	nd spaceing	g betweer
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C
25	512	1850.2	25.2 dbm	0.744	22.1	21.7
1900 MHz	661	1880	25 dbm	0.533	22.1	21.7
	810	1909.8	24.7 dbm	0.397	22.1	21.7
Configuration			e EUT is parallelled w om is 4mm.	ith flat phantom, a	nd spaceing	g betweei
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C
	512	1850.2	25.2 dbm	0.296	22.1	21.7
1900 MHz	661	1880	25 dbm	0.265	22.1	21.7
	810	1909.8	24.7 dbm	0.242	22.1	21.7
Configuratior	•		e EUT is parallelled work the second se	ith flat phantom, a	nd spaceing	g betweel
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C
	512	1850.2	25.2 dbm	0.438	22.1	21.7
1900 MHz	661	1880	25 dbm	0.367	22.1	21.7
	810	1909.8	24.7 dbm	0.327	22.1	21.7
Configuration			EUT is parallelled wi om is 4mm.	th flat phantom, ar	nd spaceing	j betweer
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid

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	512	1850.2	25.2 dbm	0.34	22.1	21.7				
1900 MHz	661	1880	25 dbm	0.299	22.1	21.7				
	810	1909.8	24.7 dbm	0.279	22.1	21.7				
Configuration	Configuration 5 : Bottom side of the Notebook is paralleled and contacted with flat phantom.									
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]				
	512	1850.2	25.2 dbm	0.16	22.1	21.7				
1900 MHz	661	1880	25 dbm	0.151	22.1	21.7				
	810	1909.8	24.7 dbm	0.145	22.1	21.7				
Configuration			EUT is parallelled with om is 4mm.	th flat phantom, an	id spaceing	between				
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]				
	512	1850.2	25.2 dbm	0.185	22.1	21.7				
1900 MHz	661	1880	25 dbm	0.168	22.1	21.7				
	810	1909.8	24.7 dbm	0.154	22.1	21.7				

WCDMA BAND2

Configuration 1: Front side of the EUT is paralleled with flat phantom, and spaceing between EUT and phantom is 4mm. Conducted Output Measured(W/kg) Frequency Channel MHz Amb. Liquid Power (Average) Temp[°C] Temp[°C] 1q 9262 1852.4 23.47 dbm 0.52 22.1 21.7 **WCDMA** 23.19 dbm 0.676 9400 1880 22.1 21.7 BAND 2 9538 1907.6 22.81 dbm 0.419 22.1 21.7 Configuration 2 : Back side of the EUT is parallelled with flat phantom, and spaceing between EUT and phantom is 4mm. Measured(W/kg) Conducted Output Amb. MHz Liquid Frequency Channel Temp[°C] Temp[°C] Power (Average) 1g 9262 1852.4 23.47 dbm 0.173 22.1 21.7 WCDMA 9400 1880 23.19 dbm 0.239 22.1 21.7 BAND 2

DAND 2	9538	1907.6	22.81 dbm	0.162	22.1	21.7			
Configuration 3: Right side of the EUT is parallelled with flat phantom, and spaceing between									
	EUT and phantom is 4mm.								
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid			
			Power (Average)	1α	Temp[°C]	Temp[°C1			

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	9262	1852.4	23.47 dbm	0.326	22.1	21.7				
WCDMA BAND 2	9400	1880	23.19 dbm	0.488	22.1	21.7				
	9538	1907.6	22.81 dbm	0.243	22.1	21.7				
Configuration 4: Left side of the EUT is parallelled with flat phantom, and spaceing between										
	EUT and phantom is 4mm.									
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]				
	9262	1852.4	23.47 dbm	0,199	22.1	21.7				
WCDMA BAND 2	9400	1880	23.19 dbm	0.271	22.1	21.7				
DAND Z	9538	1907.6	22.81 dbm	0.195	22.1	21.7				
Configuratior	Configuration 5 : Bottom side of the Notebook is paralleled and contacted with flat phantom.									
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1q	Amb. Temp[°C]	Liquid Temp[°C]				
	9262	1852.4	23.47 dbm	0.137	22.1	21.7				
WCDMA BAND 2	9400	1880	23.19 dbm	0.151	22.1	21.7				
DAND Z	9538	1907.6	22.81 dbm	0.13	22.1	21.7				
Configuration	6: Top sid	e of the	EUT is parallelled wi	ith flat phantom, ai	nd spaceing	g between				
	EUT an	d phanto	om is 4mm.							
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1q	Amb. Temp[°C]	Liquid Temp[°C]				
	9262	1852.4	23.47 dbm	0.169	22.1	21.7				
	9400	1880	23.19 dbm	0.218	22.1	21.7				
BAND 2	9538	1907.6	22.81 dbm	0.178	22.1	21.7				

WCDMA BAND2_HSDPA mode

Configuration			e EUT is paralleled w om is 4mm.	ith flat phantom, a	nd spaceing	g between
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
	9262	1852.4	23.14 dbm	0.651	22.1	21.7
WCDMA BAND 2	9400	1880	23.01 dbm	0.866	22.1	21.7
DAND Z	9538	1907.6	22.62 dbm	0.402	22.1	21.7
			SOC			

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Configuratior			e EUT is parallelled w om is 4mm.	ith flat phantom, a	nd spacein	g betweer
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C
	9262	1852.4	23.14 dbm	0.193	22.1	21.7
WCDMA BAND 2	9400	1880	23.01 dbm	0.241	22.1	21.7
DAND Z	9538	1907.6	22.62 dbm	0.153	22.1	21.7
Configuratior			EUT is parallelled working the second s	ith flat phantom, a	nd spacein	g betweer
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C
	9262	1852.4	23.14 dbm	0.292	22.1	21.7
WCDMA BAND 2	9400	1880	23.01 dbm	0.388	22.1	21.7
DAND Z	9538	1907.6	22.62 dbm	0.237	22.1	21.7
Configuration			EUT is parallelled wi om is 4mm.	th flat phantom, ar	nd spaceing	j betweer
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C
	9262	1852.4	23.14 dbm	0.229	22.1	21.7
WCDMA BAND 2	9400	1880	23.01 dbm	0.275	22.1	21.7
DAND Z	9538	1907.6	22.62 dbm	0.2	22.1	21.7
Configuratior	5 : Bottom	n side of	the Notebook is para	Illeled and contacte	ed with flat	phantom
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C
	9262	1852.4	23.14 dbm	0.132	22.1	21.7
WCDMA BAND 2	9400	1880	23.01 dbm	0.142	22.1	21.7
DAIND Z	9538	1907.6	22.62 dbm	0.178	22.1	21.7
Configuratior			EUT is parallelled withom is 4mm.	th flat phantom, an	d spaceing	between
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C
	9262	1852.4	23.14 dbm	0.184	22.1	21.7
WCDMA BAND 2	9400	1880	23.01 dbm	0.237	22.1	21.7
DAIND Z	9538	1907.6	22.62 dbm	0.163	22.1	21.7

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WCDMA BAND5

			om is 4mm.			1
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°(
	4132	826.4	22.65 dbm	0.157	22.1	21.7
WCDMA BAND 5	4183	836.6	22.42 dbm	0.164	22.1	21.7
DIND 5	4233	846.6	22.61 dbm	0.176	22.1	21.7
Configuration			e EUT is parallelled w om is 4mm.	ith flat phantom, a	nd spacein	g betwee
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°(
	4132	826.4	22.65 dbm	0.098	22.1	21.7
WCDMA BAND 5	4183	836.6	22.42 dbm	0.105	22.1	21.7
DAND 5	4233	846.6	22.61 dbm	0.102	22.1	21.7
Configuration			EUT is parallelled work is 4mm.	ith flat phantom, a	nd spacein	g betwee
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°(
	4132	826.4	22.65 dbm	0.114	22.1	21.7
WCDMA BAND 5	4183	836.6	22.42 dbm	0.119	22.1	21.7
	4233	846.6	22.61 dbm	0.104	22.1	21.7
Configuration			EUT is parallelled wi om is 4mm.	th flat phantom, ar	nd spaceing	g betwee
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°(
	4132	826.4	22.65 dbm	0.114	22.1	21.7
WCDMA BAND 5	4183	836.6	22.42 dbm	0.128	22.1	21.7
DAND J	4233	846.6	22.61 dbm	0.105	22.1	21.7
Configuration	5 : Bottom	side of	the Notebook is para	lleled and contacte	ed with flat	phanton
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°(
	4132	826.4	22.65 dbm	0.082	22.1	21.7
WCDMA BAND 5	4183	836.6	22.42 dbm	0.089	22.1	21.7
	4233	846.6	22.61 dbm	0.082	22.1	21.7
Configuration	6: Top sid	e of the	EUT is parallelled wi	th flat phantom, an	d spaceing	betwee

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No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路 134 號 f (886-2) 2298-0488



Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA BAND 5	4132	826.4	22.65 dbm	0.068	22.1	21.7
	4183	836.6	22.42 dbm	0.072	22.1	21.7
	4233	846.6	22.61 dbm	0.067	22.1	21.7

WCDMA BAND5_HSDPA mode

Configuration	1: Front si		e EUT is paralleled w	ith flat phantom, a	nd spacein	g between
			om is 4mm.			-
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Average)	1g	Temp[°C]	Temp[°C]
WCDMA BAND 5	4132	826.4	22,48 dbm	0.129	22.1	21.7
	4183	836.6	22.16 dbm	0.152	22.1	21.7
	4233	846.6	22.31 dbm	0.099	22.1	21.7
Configuration 2 : Back side of the EUT is parallelled with flat phantom, and spaceing between EUT and phantom is 4mm.						
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Average)	1g	Temp[°C]	Temp[°C]
WCDMA BAND 5	4132	826.4	22,48 dbm	0.105	22.1	21.7
	4183	836.6	22.16 dbm	0.108	22.1	21.7
	4233	846.6	22.31 dbm	0.099	22.1	21.7
Configuration 3: Right side of the EUT is parallelled with flat phantom, and spaceing between EUT and phantom is 4mm.						
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Average)	1g`	Temp[°C]	•
	4132	826.4	22,48 dbm	0.101	22.1	21.7
WCDMA BAND 5	4183	836.6	22.16 dbm	0.108	22.1	21.7
	4233	846.6	22.31 dbm	0.082	22.1	21.7
Configuration			EUT is parallelled wi	th flat phantom, ar	nd spaceing	g between
Frequency	Channel	MHz	om is 4mm. Conducted Output	Measured(W/kg)	Amb.	Liquid
rrequency	Charmer		Power (Average)	1g	Temp[°C]	•
WCDMA BAND 5	4132	826.4	22,48 dbm	0.11	22.1	21.7
	4183	836.6	22.16 dbm	0.121	22.1	21.7
	4233	846.6	22.31 dbm	0.101	22.1	21.7
Configuration	5 : Bottom	side of	the Notebook is para	lleled and contacte	ed with flat	phantom.

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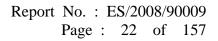
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA BAND 5	4132	826.4	22,48 dbm	0.085	22.1	21.7
	4183	836.6	22.16 dbm 0.099		22.1	21.7
DAILD 3	4233	846.6	22.31 dbm	0.097	22.1	21.7
Configuration 6: Top side of the EUT is parallelled with flat phantom, and spaceing between						
EUT and phantom is 4mm.						
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid
			Power (Average)	1g	Temp[°C]	Temp[°C]
WCDMA BAND 5	4132	826.4	22,48 dbm	0.071	22.1	21.7
	4183	836.6	22.16 dbm	0.074	22.1	21.7
	4233	846.6	22.31 dbm	0.066	22.1	21.7

Note: SAR measurement results for the data card at maximum output power.



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3. Instruments List

Manufacturer	Device	Туре	Serial number	Date of last calibration
Schmid & Partner Engineering AG	Dosimetric E-FieldProbe	ES3DV3	3172	Jun.23.2008
Schmid & Partner Engineering AG	850/1900MHz System Validation Dipole	D835V2 D1900V2	4d063 5d027	Jun.06.2008 Apr.15.2008
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	856	May.07.2008
Schmid & Partner		DASY 5		Calibration
	Software	V5.0	N/A	isn't
Engineering AG		Build 119		necessary
Schmid & Partner	Phantom	SAM	N/A	Calibration
				isn't
Engineering AG				necessary
Agilent	Network Analyzer	8753D	3410A05547	Nov.14.2007
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration isn't necessary
Agilent	Dual-directional coupler	778D	50313	Aug.26.2008
Agilent	RF Signal Generator	E4438c	MY45093613	May.21.2008
Agilent	Power Sensor	8481H	MY41091361	May.20.2008
R&S	Radio Communication Test	CMU200	109326	May.11.2008



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4. Measurements

Date/Time: 9/17/2008 03:27:15

Configuration 1_CH128

DUT: C152,

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.942 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section

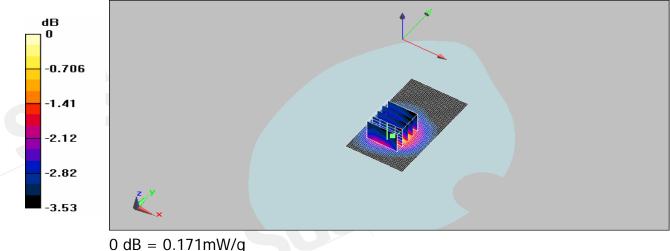
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.190 mW/g

Body/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.6 V/m; Power Drift = 0.012 dB Peak SAR (extrapolated) = 0.231 W/kg

SAR(1 g) = 0.162 mW/g; SAR(10 g) = 0.123 mW/g

Maximum value of SAR (measured) = 0.171 mW/g



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Date/Time: 9/17/2008 03:51:37

Configuration 1_CH190

DUT: C152,

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used: f = 837 MHz; σ = 0.957 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

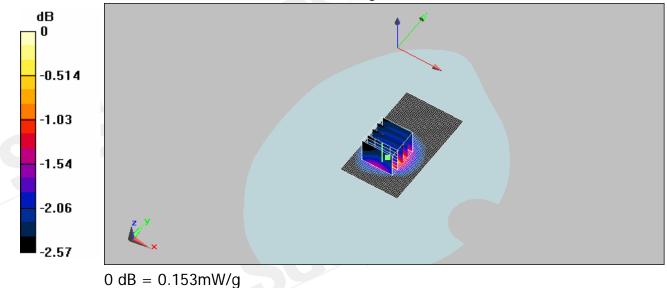
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.162 mW/g

Body/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11 V/m; Power Drift = 0.139 dB Peak SAR (extrapolated) = 0.191 W/kg

SAR(1 g) = 0.146 mW/g; SAR(10 g) = 0.119 mW/g

Maximum value of SAR (measured) = 0.153 mW/g



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Date/Time: 9/17/2008 04:17:28

Configuration 1_CH251

DUT: C152,

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used: f = 849 MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 56.1$; $\rho =$ 1000 kg/m^3 Phantom section: Flat Section

DASY5 Configuration:

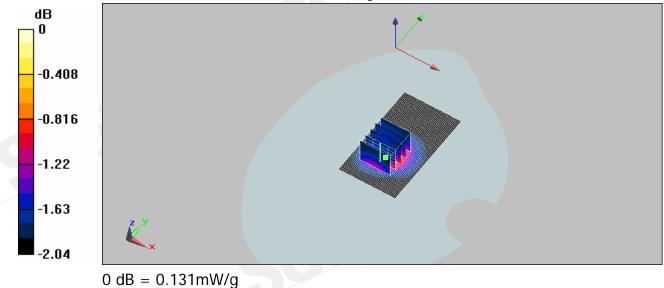
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.137 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.5 V/m; Power Drift = 0.034 dB Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.126 mW/g; SAR(10 g) = 0.106 mW/g

Maximum value of SAR (measured) = 0.131 mW/g



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Date/Time: 9/17/2008 05:36:30

Configuration 2_CH128

DUT: C152,

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.942 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

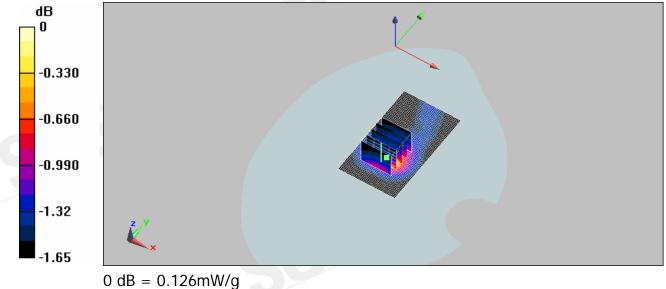
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.132 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.8 V/m; Power Drift = -0.024 dB Peak SAR (extrapolated) = 0.142 W/kg

SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.107 mW/g

Maximum value of SAR (measured) = 0.126 mW/g



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Date/Time: 9/17/2008 05:12:19

Configuration 2_CH190

DUT: C152,

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used: f = 837 MHz; σ = 0.957 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration: Flat Section

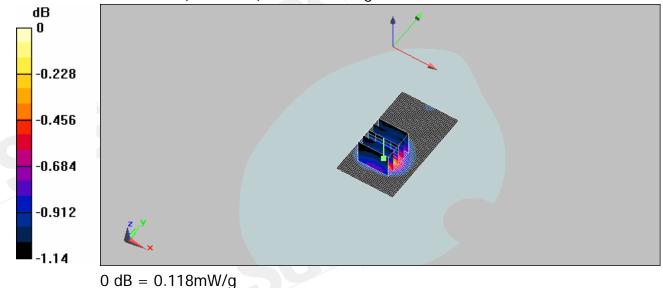
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.124 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.5 V/m; Power Drift = 0.00935 dB Peak SAR (extrapolated) = 0.127 W/kg

SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.106 mW/g

Maximum value of SAR (measured) = 0.118 mW/g



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Date/Time: 9/17/2008 04:49:41

Configuration 2_CH251

DUT: C152,

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used: f = 849 MHz; σ = 0.97 mho/m; ϵ_r = 56.1; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration: Flat Section

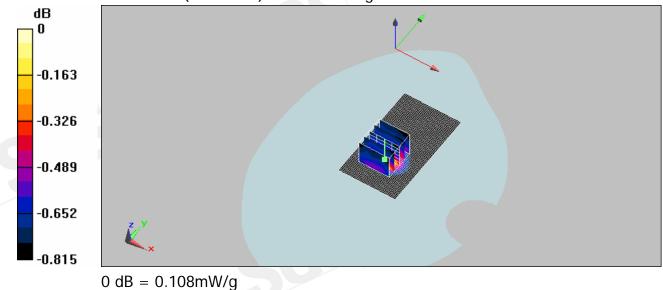
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.109 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.1 V/m; Power Drift = 0.00291 dB Peak SAR (extrapolated) = 0.111 W/kg

SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.100 mW/g

Maximum value of SAR (measured) = 0.108 mW/g



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Date/Time: 9/17/2008 06:06:02

Configuration 3_CH128

DUT: C152,

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.942 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

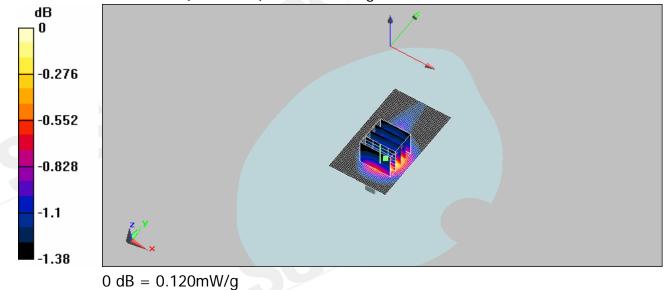
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.126 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.2 V/m; Power Drift = -0.037 dB Peak SAR (extrapolated) = 0.132 W/kg

SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.105 mW/g

Maximum value of SAR (measured) = 0.120 mW/g



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Date/Time: 9/17/2008 06:28:12

Configuration 3_CH190

DUT: C152,

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used: f = 837 MHz; $\sigma = 0.957$ mho/m; $\epsilon_r = 56.2$; $\rho =$ 1000 kg/m^3 Phantom section: Flat Section

DASY5 Configuration:

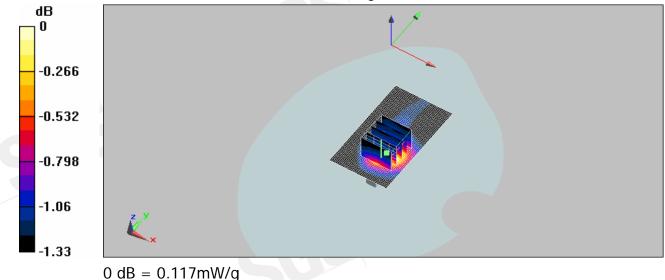
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.123 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.9 V/m; Power Drift = -0.018 dB Peak SAR (extrapolated) = 0.127 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.103 mW/g

Maximum value of SAR (measured) = 0.117 mW/g



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Date/Time: 9/17/2008 06:52:29

Configuration 3_CH251

DUT: C152,

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used: f = 849 MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 56.1$; $\rho =$ 1000 kg/m^3 Phantom section: Flat Section

DASY5 Configuration:

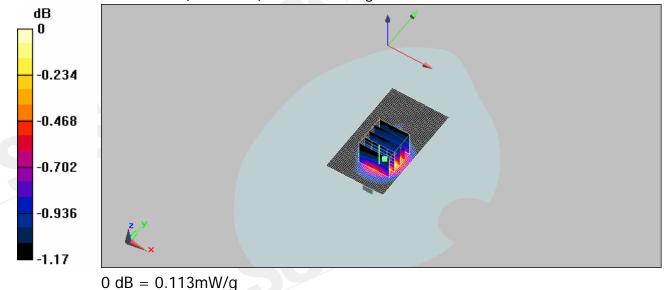
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.117 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.6 V/m; Power Drift = -0.026 dB Peak SAR (extrapolated) = 0.120 W/kg

SAR(1 g) = 0.111 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.113 mW/g



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Date/Time: 9/17/2008 08:06:32

Configuration 4_CH128

DUT: C152,

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.942 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

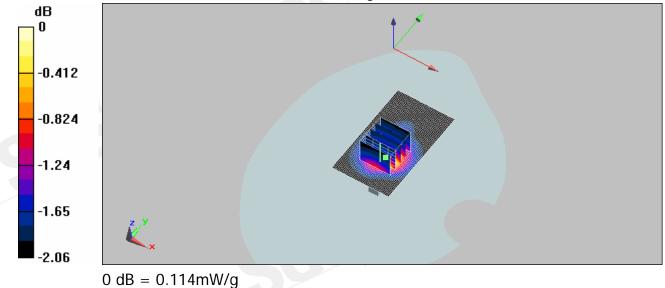
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.124 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.1 V/m; Power Drift = -0.104 dB Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.111 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.114 mW/g



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Date/Time: 9/17/2008 07:41:47

Configuration 4_CH190

DUT: C152,

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used: f = 837 MHz; $\sigma = 0.957$ mho/m; $\epsilon_r = 56.2$; $\rho =$ 1000 kg/m^3 Phantom section: Flat Section

DASY5 Configuration:

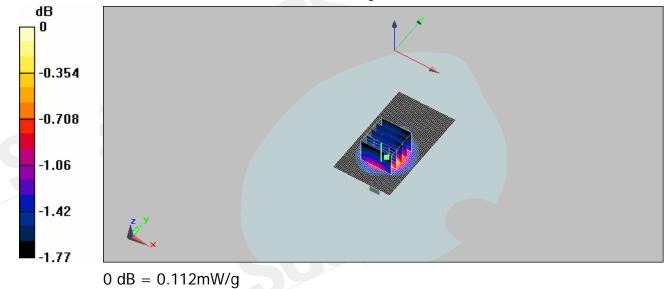
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.120 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.92 V/m; Power Drift = 0.077 dB Peak SAR (extrapolated) = 0.126 W/kg

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.096 mW/g

Maximum value of SAR (measured) = 0.112 mW/g



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Date/Time: 9/17/2008 07:19:53

Configuration 4_CH251

DUT: C152,

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used: f = 849 MHz; σ = 0.97 mho/m; ϵ_r = 56.1; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

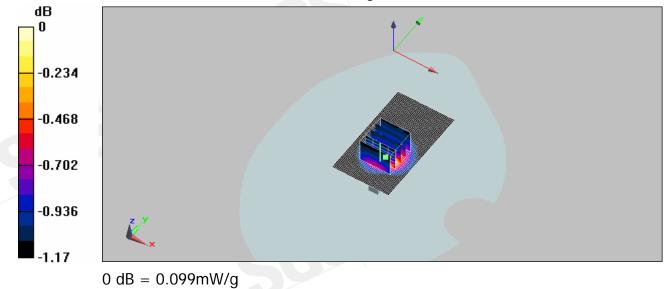
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.103 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.61 V/m; Power Drift = -0.00412 dB Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.098 mW/g; SAR(10 g) = 0.089 mW/g

Maximum value of SAR (measured) = 0.099 mW/g



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Date/Time: 9/17/2008 08:41:55

Configuration 5_CH128

DUT: C152,

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2 Medium: GSM850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.942 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

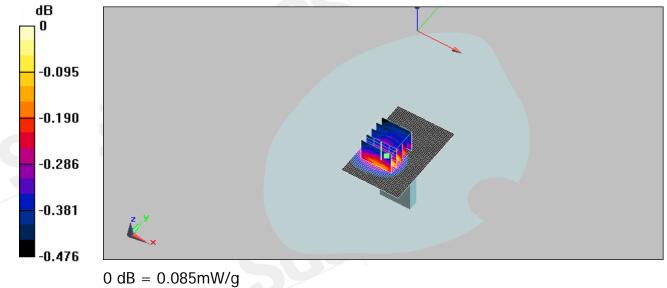
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.085 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.23 V/m; Power Drift = 0.171 dB Peak SAR (extrapolated) = 0.086 W/kg

SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.082 mW/g

Maximum value of SAR (measured) = 0.085 mW/g



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Date/Time: 9/17/2008 09:05:28

Configuration 5_CH190

DUT: C152,

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:2 Medium: GSM850 Medium parameters used: f = 837 MHz; σ = 0.957 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

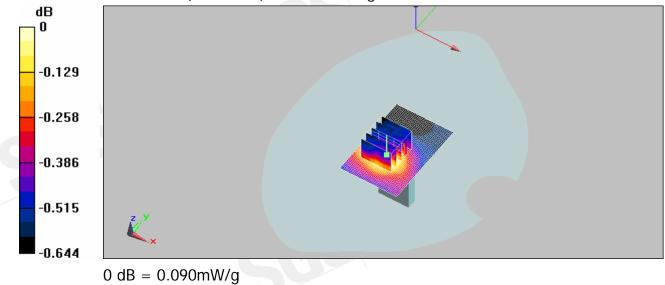
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.094 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.8 V/m; Power Drift = -0.160 dB Peak SAR (extrapolated) = 0.091 W/kg

SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.086 mW/g

Maximum value of SAR (measured) = 0.090 mW/g



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Date/Time: 9/17/2008 09:28:18

Configuration 5_CH251

DUT: C152,

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:2 Medium: GSM850 Medium parameters used: f = 849 MHz; σ = 0.97 mho/m; ϵ_r = 56.1; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

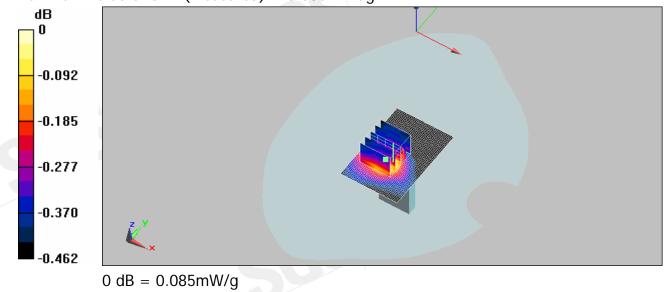
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.086 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.33 V/m; Power Drift = -0.098 dB Peak SAR (extrapolated) = 0.085 W/kg

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.082 mW/g

Maximum value of SAR (measured) = 0.085 mW/g



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Date/Time: 9/17/2008 10:47:52

Configuration 6_CH128

DUT: C152,

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.942 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

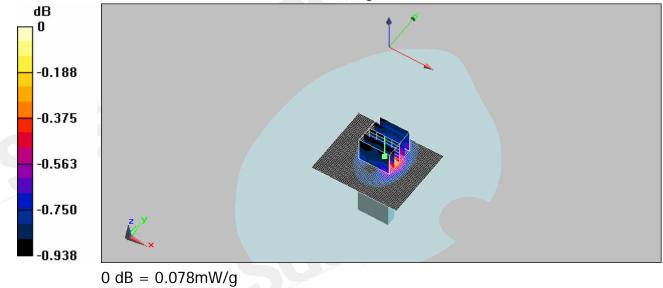
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.081 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.33 V/m; Power Drift = 0.026 dB Peak SAR (extrapolated) = 0.090 W/kg

SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.070 mW/g

Maximum value of SAR (measured) = 0.078 mW/g



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Date/Time: 9/17/2008 10:25:50

Configuration 6_CH190

DUT: C152,

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used: f = 837 MHz; σ = 0.957 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

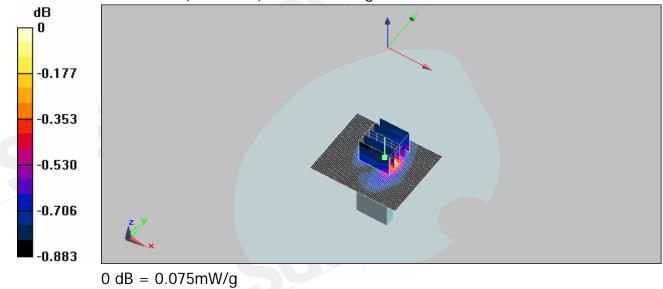
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.078 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.21 V/m; Power Drift = 0.00953 dB Peak SAR (extrapolated) = 0.084 W/kg

SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.075 mW/g



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Date/Time: 9/17/2008 10:01:32

Configuration 6_CH251

DUT: C152,

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:2 Medium: GSM 850 Medium parameters used: f = 849 MHz; σ = 0.97 mho/m; ϵ_r = 56.1; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

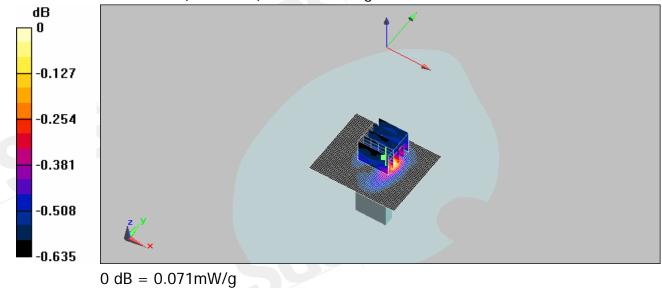
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.073 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.17 V/m; Power Drift = -0.106 dB Peak SAR (extrapolated) = 0.078 W/kg

SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.066 mW/g

Maximum value of SAR (measured) = 0.071 mW/g



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Date/Time: 9/17/2008 12:42:26

Configuration 1_CH512

DUT: C152,

Communication System: GSM1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.43 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

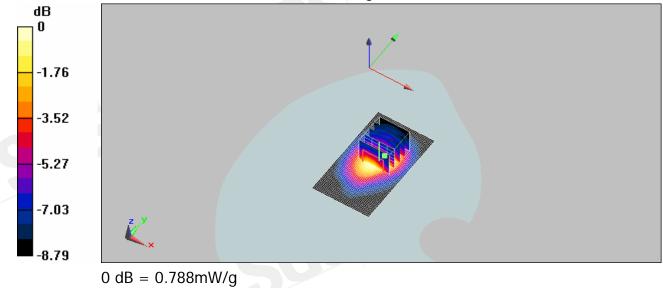
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.862 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.8 V/m; Power Drift = -0.110 dB Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.744 mW/g; SAR(10 g) = 0.468 mW/g

Maximum value of SAR (measured) = 0.788 mW/g



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Date/Time: 9/17/2008 13:16:21

Configuration 1_CH661

DUT: C152,

Communication System: GSM1900; Frequency: 1880 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

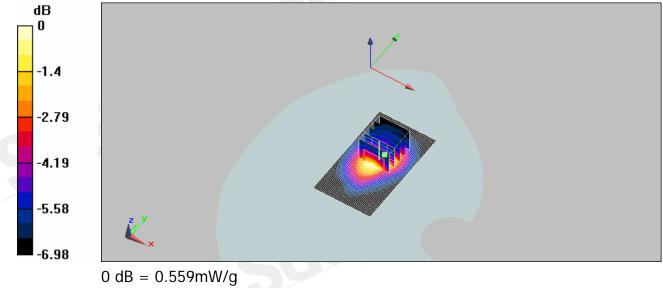
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.582 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.2 V/m; Power Drift = 0.023 dB Peak SAR (extrapolated) = 0.836 W/kg

SAR(1 g) = 0.533 mW/g; SAR(10 g) = 0.351 mW/g

Maximum value of SAR (measured) = 0.559 mW/g



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Date/Time: 9/17/2008 13:39:05

Configuration 1_CH810

DUT: C152,

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used: f = 1910 MHz; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 52.4$; ρ $= 1000 \text{ kg/m}^3$ Phantom section: Flat Section

DASY5 Configuration:

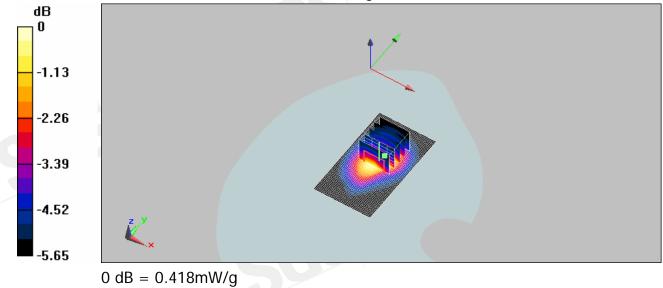
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.432 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.7 V/m; Power Drift = -0.00468 dB Peak SAR (extrapolated) = 0.556 W/kg

SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.279 mW/g

Maximum value of SAR (measured) = 0.418 mW/g



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Date/Time: 9/17/2008 14:01:02

Configuration 2_CH512

DUT: C152,

Communication System: GSM1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.43 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

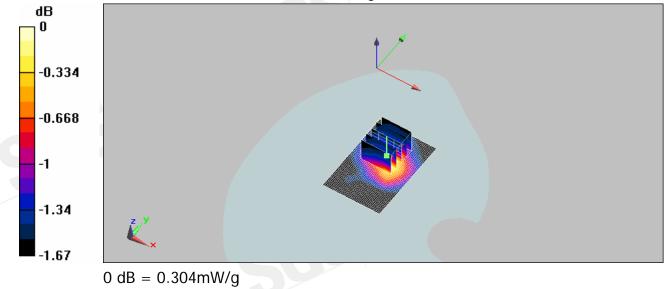
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.304 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 12 V/m; Power Drift = 0.00409 dB Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.262 mW/g

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



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Date/Time: 9/17/2008 14:24:04

Configuration 2_CH661

DUT: C152,

Communication System: GSM1900; Frequency: 1880 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

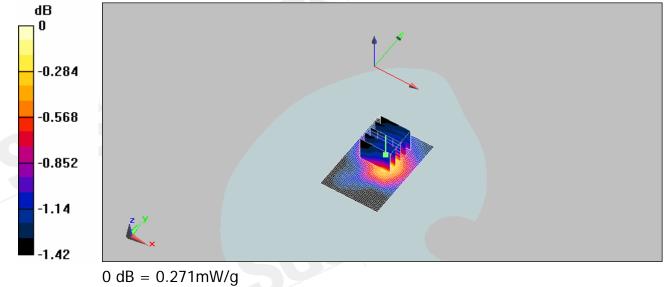
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.269 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 12 V/m; Power Drift = -0.00689 dB Peak SAR (extrapolated) = 0.296 W/kg

SAR(1 g) = 0.265 mW/g; SAR(10 g) = 0.238 mW/g

Maximum value of SAR (measured) = 0.271 mW/g



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Date/Time: 9/17/2008 14:46:40

Configuration 2_CH810

DUT: C152,

Communication System: GSM1900; Frequency: 1909.8 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

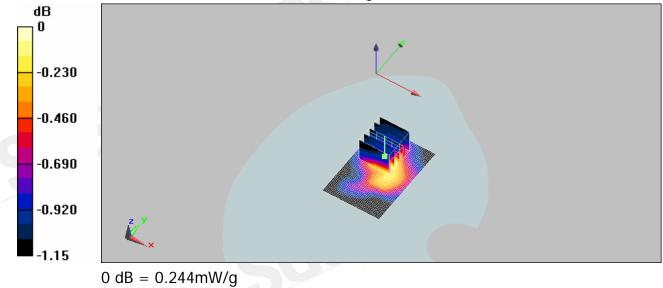
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.248 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.9 V/m; Power Drift = 0.017 dB Peak SAR (extrapolated) = 0.256 W/kg

SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.222 mW/g

Maximum value of SAR (measured) = 0.244 mW/g



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Date/Time: 9/17/2008 16:11:30

Configuration 3_CH512

DUT: C152,

Communication System: GSM1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.43 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

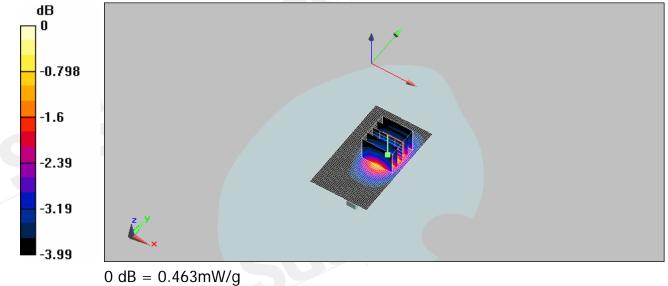
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.482 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.8 V/m; Power Drift = -0.00935 dB Peak SAR (extrapolated) = 0.633 W/kg

SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.318 mW/g

Maximum value of SAR (measured) = 0.463 mW/g



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Date/Time: 9/17/2008 15:46:10

Configuration 3_CH661

DUT: C152,

Communication System: GSM1900; Frequency: 1880 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

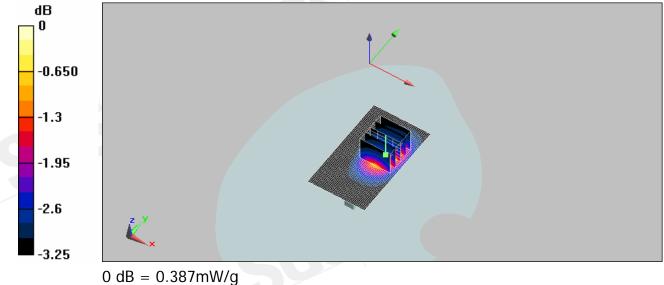
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.391 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.6 V/m; Power Drift = 0.00789 dB Peak SAR (extrapolated) = 0.506 W/kg

SAR(1 g) = 0.367 mW/g; SAR(10 g) = 0.281 mW/g

Maximum value of SAR (measured) = 0.387 mW/g



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Date/Time: 9/17/2008 15:22:52

Configuration 3_CH810

DUT: C152,

Communication System: GSM1900; Frequency: 1909.8 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

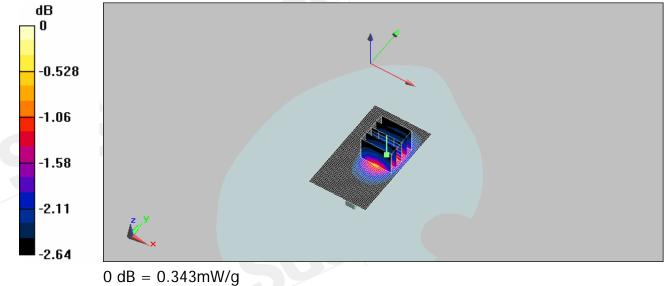
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.344 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.5 V/m; Power Drift = 0.0084 dB Peak SAR (extrapolated) = 0.424 W/kg

SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.261 mW/g

Maximum value of SAR (measured) = 0.343 mW/g



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Date/Time: 9/17/2008 16:44:48

Configuration 4_CH512

DUT: C152,

Communication System: GSM1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.43 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

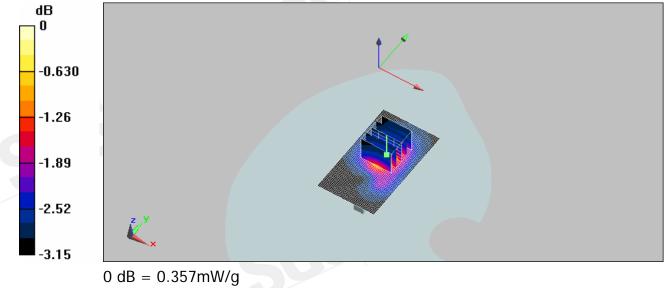
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.371 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.9 V/m; Power Drift = 0.00209 dB Peak SAR (extrapolated) = 0.463 W/kg

SAR(1 g) = 0.340 mW/g; SAR(10 g) = 0.264 mW/g

Maximum value of SAR (measured) = 0.357 mW/g



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Date/Time: 9/17/2008 17:17:00

Configuration 4_CH661

DUT: C152,

Communication System: GSM1900; Frequency: 1880 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

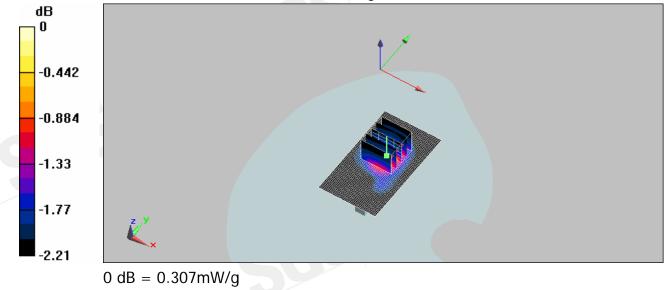
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.308 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.3 V/m; Power Drift = -0.015 dB Peak SAR (extrapolated) = 0.383 W/kg

SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.244 mW/g

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



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Date/Time: 9/17/2008 17:41:54

Configuration 4_CH810

DUT: C152,

Communication System: GSM1900; Frequency: 1909.8 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

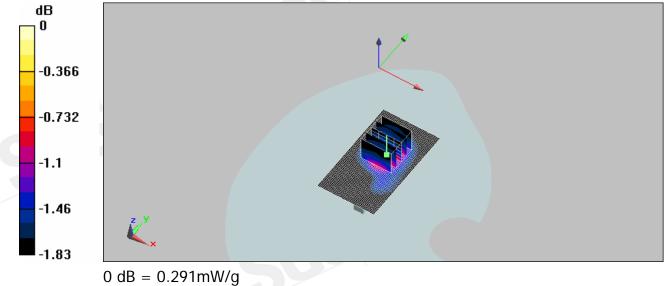
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.291 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.7 V/m; Power Drift = 0.053 dB Peak SAR (extrapolated) = 0.332 W/kg

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.237 mW/g

Maximum value of SAR (measured) = 0.291 mW/g



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Date/Time: 9/17/2008 18:59:06

Configuration 5_CH512

DUT: C152,

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.43 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

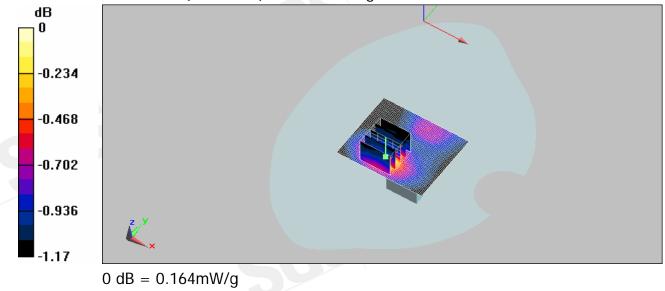
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.162 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.75 V/m; Power Drift = -0.062 dB Peak SAR (extrapolated) = 0.175 W/kg

SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.145 mW/g

Maximum value of SAR (measured) = 0.164 mW/g



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Date/Time: 9/17/2008 18:37:22

Configuration 5_CH661

DUT: C152,

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

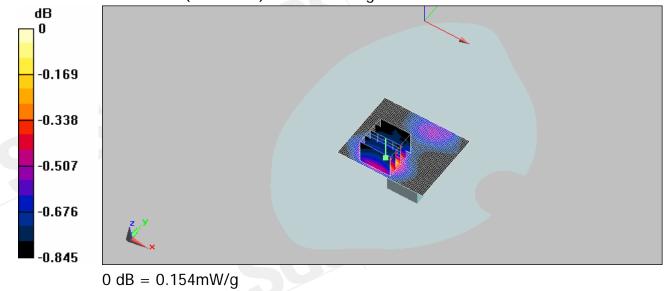
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.154 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.71 V/m; Power Drift = 0.016 dB Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.141 mW/g

Maximum value of SAR (measured) = 0.154 mW/g



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Date/Time: 9/17/2008 18:13:40

Configuration 5_CH810

DUT: C152,

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:2 Medium: GSM 1900 Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

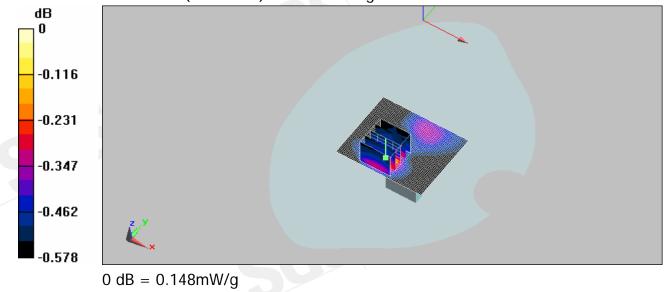
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.146 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.67 V/m; Power Drift = 0.013 dB Peak SAR (extrapolated) = 0.148 W/kg

SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.139 mW/g

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



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Date/Time: 9/17/2008 19:36:31

Configuration 6_CH512

DUT: C152,

Communication System: GSM1900; Frequency: 1850.2 MHz;Duty Cycle: 1:2 Medium: GPRS 1900 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.43 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

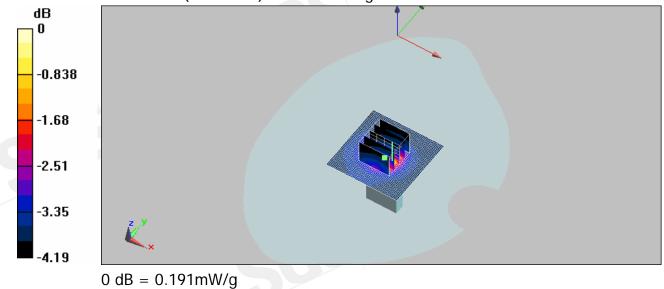
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.232 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 12 V/m; Power Drift = -0.185 dB Peak SAR (extrapolated) = 0.364 W/kg

SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.124 mW/g

Maximum value of SAR (measured) = 0.191 mW/g



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Date/Time: 9/17/2008 20:00:56

Configuration 6_CH661

DUT: C152,

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:2 Medium: GPRS 1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ $= 1000 \text{ kg/m}^3$ Phantom section: Flat Section

DASY5 Configuration:

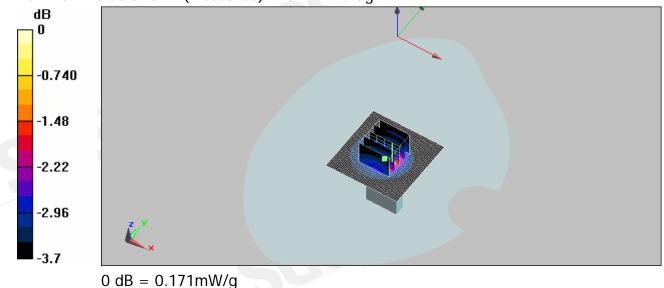
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.191 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.8 V/m; Power Drift = 0.064 dB Peak SAR (extrapolated) = 0.349 W/kg

SAR(1 g) = 0.168 mW/g; SAR(10 g) = 0.116 mW/g

Maximum value of SAR (measured) = 0.171 mW/g



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Date/Time: 9/17/2008 20:23:32

Configuration 6_CH810

DUT: C152,

Communication System: GSM1900; Frequency: 1909.8 MHz;Duty Cycle: 1:2 Medium: GPRS 1900 Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

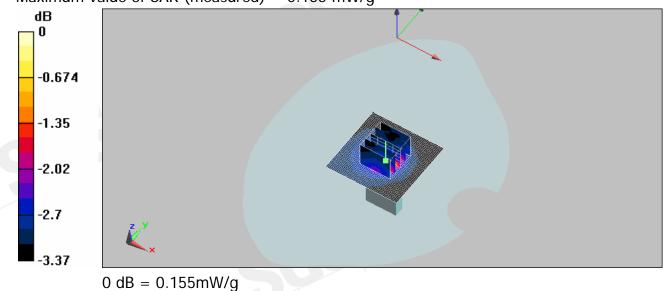
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.170 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10 V/m; Power Drift = -0.017 dB Peak SAR (extrapolated) = 0.271 W/kg

SAR(1 g) = 0.154 mW/g; SAR(10 g) = 0.109 mW/g

Maximum value of SAR (measured) = 0.155 mW/g



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Date/Time: 9/18/2008 02:31:31

Configuration 1_CH9262

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

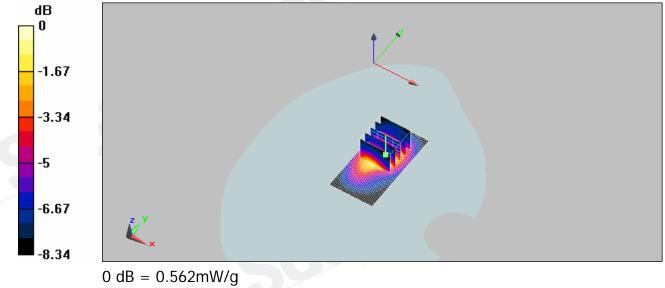
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.656 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.5 V/m; Power Drift = -0.109 dB Peak SAR (extrapolated) = 0.741 W/kg

SAR(1 g) = 0.520 mW/g; SAR(10 g) = 0.337 mW/g

Maximum value of SAR (measured) = 0.562 mW/g



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Date/Time: 9/18/2008 02:55:42

Configuration 1_CH9400

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1880 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

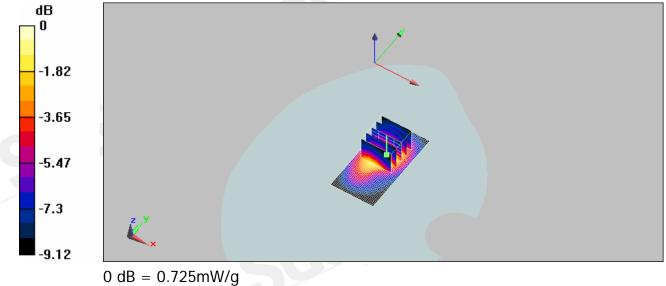
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.825 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.7 V/m; Power Drift = -0.068 dB Peak SAR (extrapolated) = 0.976 W/kg

SAR(1 g) = 0.676 mW/g; SAR(10 g) = 0.434 mW/g

Maximum value of SAR (measured) = 0.725 mW/g



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Date/Time: 9/18/2008 03:17:30

Configuration 1_CH9538

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1908 MHz; σ = 1.48 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

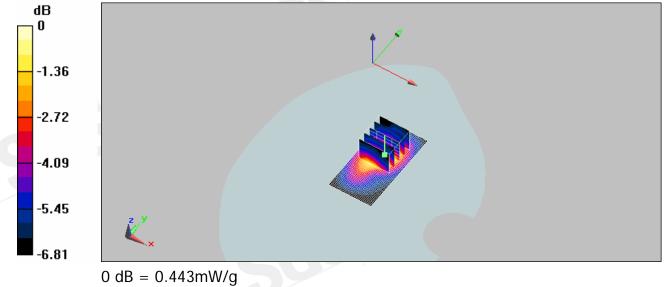
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.537 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.5 V/m; Power Drift = -0.144 dB Peak SAR (extrapolated) = 0.595 W/kg

SAR(1 g) = 0.419 mW/g; SAR(10 g) = 0.284 mW/g

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



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Date/Time: 9/18/2008 04:34:59

Configuration 2_CH9262

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

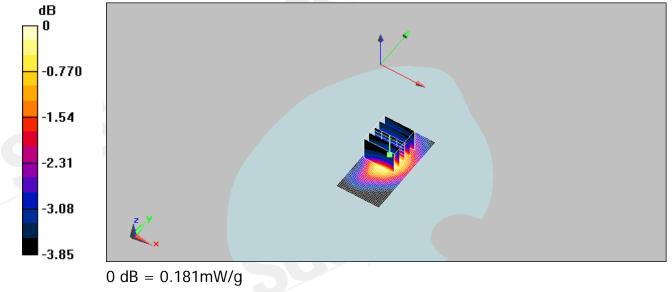
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.189 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.18 V/m; Power Drift = -0.110 dB Peak SAR (extrapolated) = 0.226 W/kg

SAR(1 g) = 0.173 mW/g; SAR(10 g) = 0.133 mW/g

Maximum value of SAR (measured) = 0.181 mW/g



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Date/Time: 9/18/2008 04:13:52

Configuration 2_CH9400

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1880 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

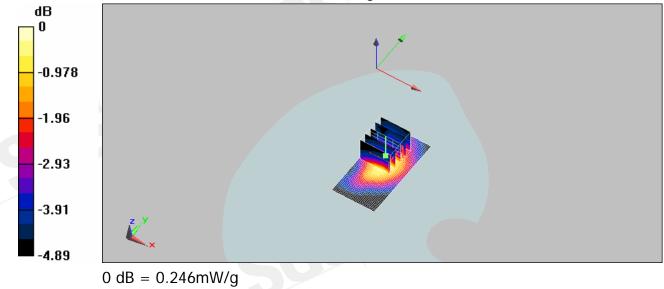
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.242 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.74 V/m; Power Drift = 0.123 dB Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.239 mW/g; SAR(10 g) = 0.173 mW/g

Maximum value of SAR (measured) = 0.246 mW/g



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Date/Time: 9/18/2008 03:50:05

Configuration 2_CH9538

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1908 MHz; σ = 1.48 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

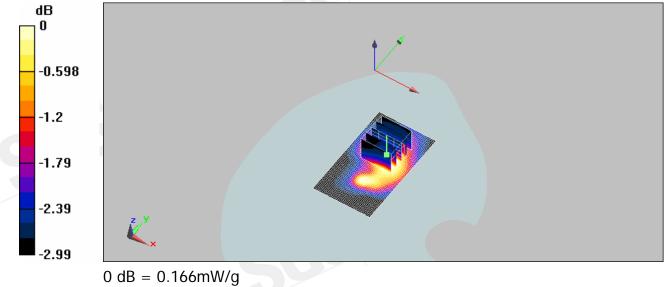
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.197 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.29 V/m; Power Drift = -0.192 dB Peak SAR (extrapolated) = 0.226 W/kg

SAR(1 g) = 0.162 mW/g; SAR(10 g) = 0.129 mW/g

Maximum value of SAR (measured) = 0.166 mW/g



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Date/Time: 9/18/2008 05:08:43

Configuration 3_CH9262

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz; Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section **DASY5** Configuration:

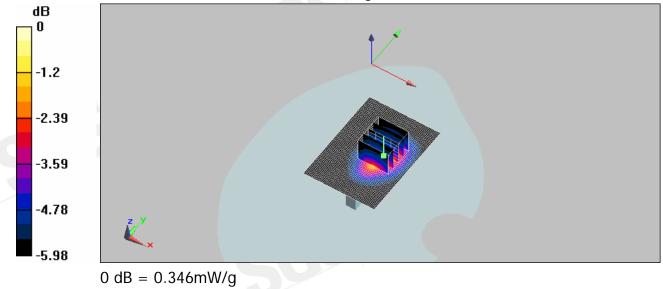
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.367 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.21 V/m; Power Drift = 0.115 dB Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.326 mW/g; SAR(10 g) = 0.199 mW/g

Maximum value of SAR (measured) = 0.346 mW/g



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Date/Time: 9/18/2008 05:29:54

Configuration 3_CH9400

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1880 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

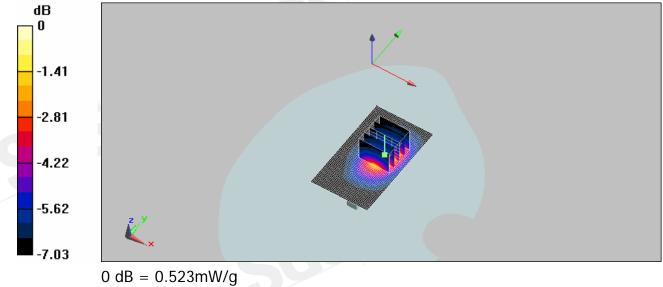
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.531 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.23 V/m; Power Drift = -0.120 dB Peak SAR (extrapolated) = 0.882 W/kg

SAR(1 g) = 0.488 mW/g; SAR(10 g) = 0.287 mW/g

Maximum value of SAR (measured) = 0.523 mW/g



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Date/Time: 9/18/2008 05:55:12

Configuration 3_CH9538

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1908 MHz; σ = 1.48 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

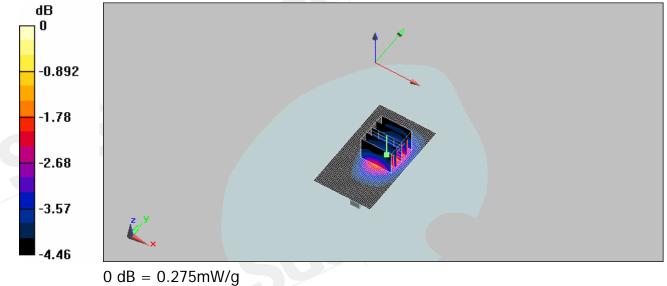
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.260 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.52 V/m; Power Drift = -0.042 dB Peak SAR (extrapolated) = 0.407 W/kg

SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.165 mW/g

Maximum value of SAR (measured) = 0.275 mW/g



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Date/Time: 9/18/2008 07:29:19

Configuration 4_CH9262

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

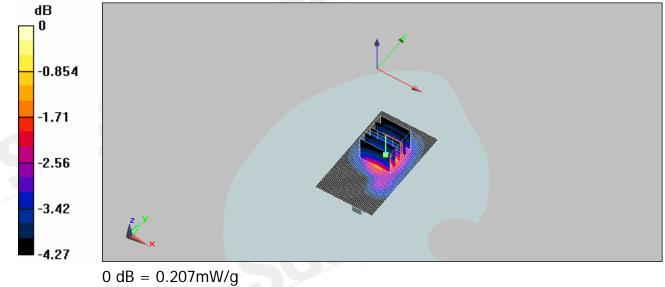
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.218 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.88 V/m; Power Drift = -0.059 dB Peak SAR (extrapolated) = 0.306 W/kg

SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.139 mW/g

Maximum value of SAR (measured) = 0.207 mW/g



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Date/Time: 9/18/2008 07:03:41

Configuration 4_CH9400

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1880 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

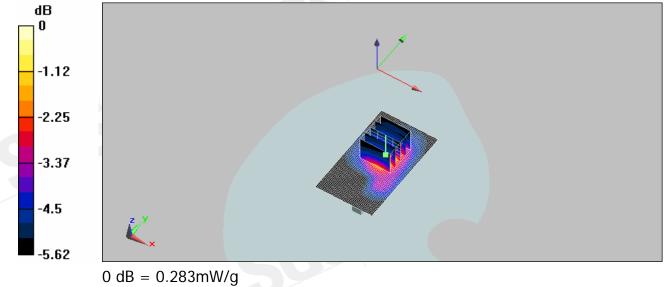
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.292 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.16 V/m; Power Drift = 0.010 dB Peak SAR (extrapolated) = 0.465 W/kg

SAR(1 g) = 0.271 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 0.283 mW/g



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Date/Time: 9/18/2008 06:43:47

Configuration 4_CH9538

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1908 MHz; σ = 1.48 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

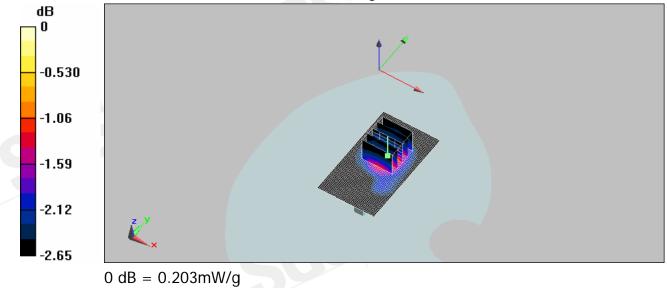
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.206 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.91 V/m; Power Drift = 0.136 dB Peak SAR (extrapolated) = 0.270 W/kg

SAR(1 g) = 0.195 mW/g; SAR(10 g) = 0.154 mW/g

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



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Date/Time: 9/18/2008 08:05:06

Configuration 5_CH9262

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

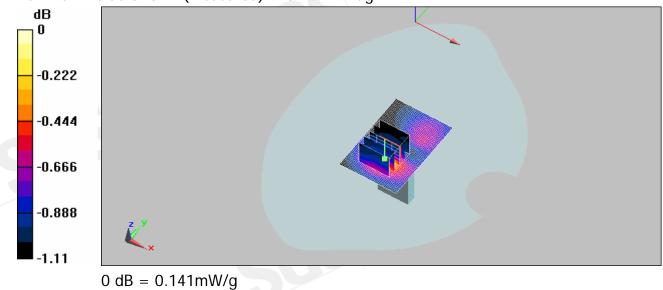
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.144 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.04 V/m; Power Drift = -0.111 dB Peak SAR (extrapolated) = 0.147 W/kg

SAR(1 g) = 0.137 mW/g; SAR(10 g) = 0.125 mW/g

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



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Date/Time: 9/18/2008 08:30:36

Configuration 5_CH9400

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1880 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

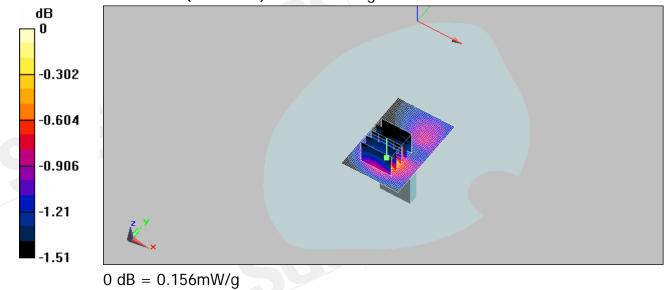
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.156 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.11 V/m; Power Drift = 0.00333 dB Peak SAR (extrapolated) = 0.172 W/kg

SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.132 mW/g

Maximum value of SAR (measured) = 0.156 mW/g



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Date/Time: 9/18/2008 08:52:16

Configuration 5_CH9538

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1908 MHz; σ = 1.48 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

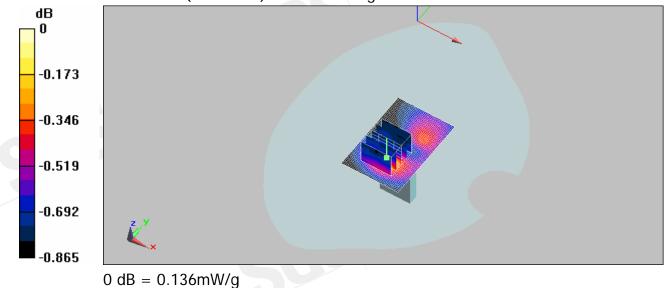
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.138 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9 V/m; Power Drift = 0.024 dB Peak SAR (extrapolated) = 0.138 W/kg

SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.136 mW/g



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Date/Time: 9/18/2008 10:19:26

Configuration 6_CH9262

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

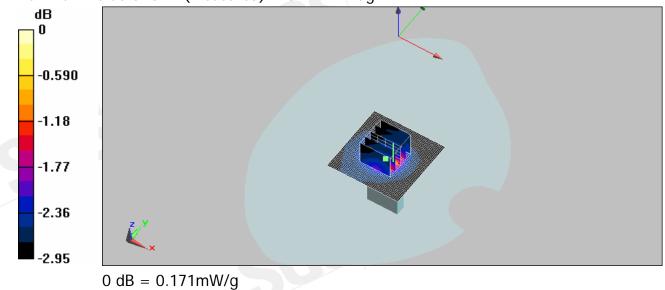
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.190 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11 V/m; Power Drift = 0.034 dB Peak SAR (extrapolated) = 0.281 W/kg

SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.126 mW/g

Maximum value of SAR (measured) = 0.171 mW/g



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Date/Time: 9/18/2008 09:57:46

Configuration 6_CH9400

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1880 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

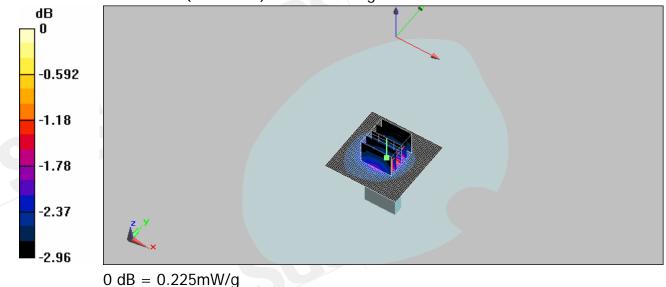
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.230 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 12.3 V/m; Power Drift = -0.078 dB Peak SAR (extrapolated) = 0.358 W/kg

SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.157 mW/g

Maximum value of SAR (measured) = 0.225 mW/g



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Date/Time: 9/18/2008 09:31:29

Configuration 6_CH9538

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1908 MHz; σ = 1.48 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

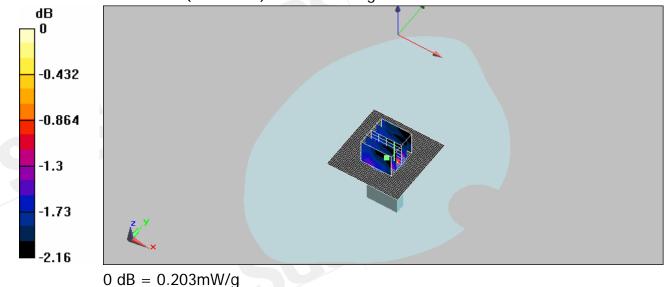
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.209 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.2 V/m; Power Drift = 0.100 dB Peak SAR (extrapolated) = 0.228 W/kg

SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.155 mW/g

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



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Date/Time: 9/18/2008 12:07:20

Configuration 1_CH9262_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

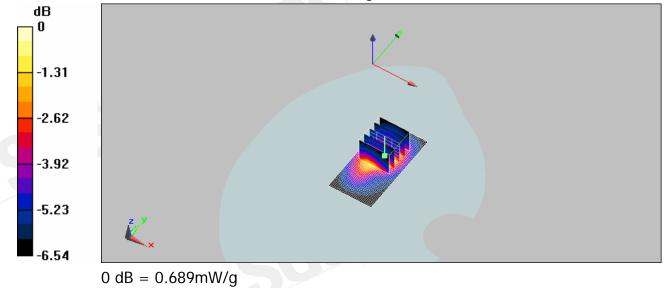
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.800 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 13 V/m; Power Drift = -0.160 dB Peak SAR (extrapolated) = 0.908 W/kg

SAR(1 g) = 0.651 mW/g; SAR(10 g) = 0.445 mW/g

Maximum value of SAR (measured) = 0.689 mW/g



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Date/Time: 9/18/2008 12:33:43

Configuration 1_CH9400_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1880 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

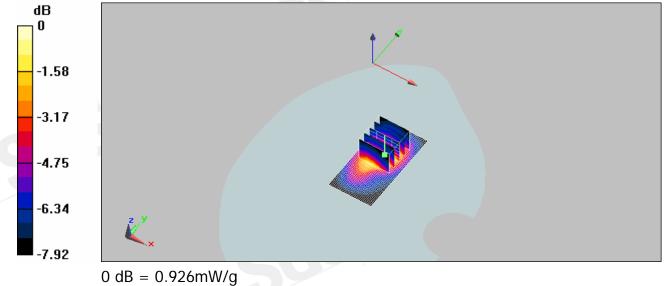
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.07 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 14 V/m; Power Drift = -0.025 dB Peak SAR (extrapolated) = 1.24 W/kg

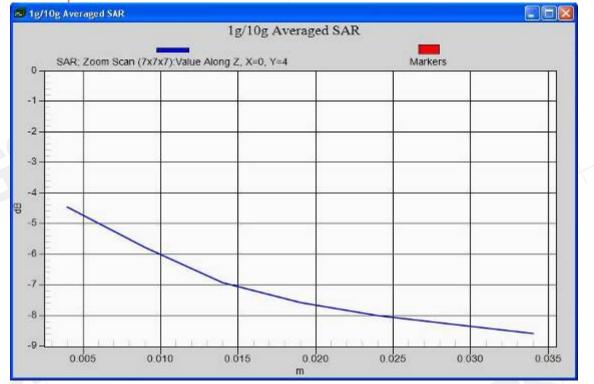
SAR(1 g) = 0.866 mW/g; SAR(10 g) = 0.568 mW/g

Maximum value of SAR (measured) = 0.926 mW/g



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Date/Time: 9/18/2008 12:57:57

Configuration 1_CH9538_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1908 MHz; σ = 1.48 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

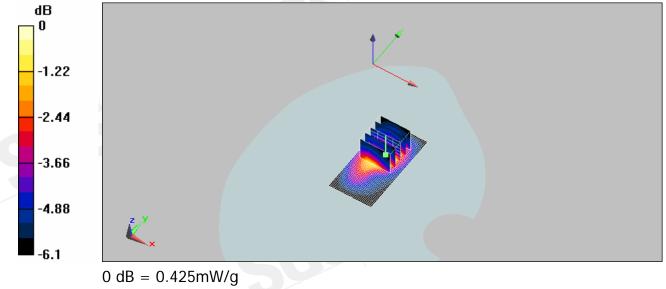
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.462 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.5 V/m; Power Drift = -0.1 dB Peak SAR (extrapolated) = 0.562 W/kg

SAR(1 g) = 0.402 mW/g; SAR(10 g) = 0.278 mW/g

Maximum value of SAR (measured) = 0.425 mW/g



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Date/Time: 9/18/2008 14:15:13

Configuration 2_CH9262_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

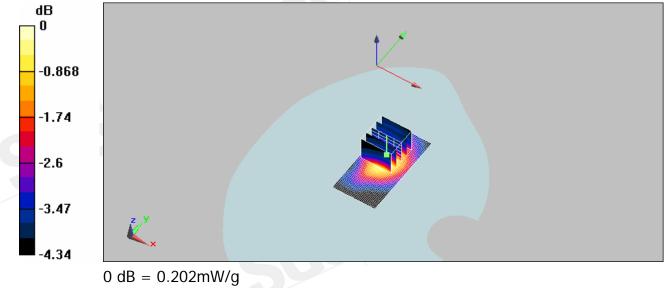
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.210 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.28 V/m; Power Drift = -0.119 dB Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.193 mW/g; SAR(10 g) = 0.147 mW/g

Maximum value of SAR (measured) = 0.202 mW/g



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Date/Time: 9/18/2008 13:53:15

Configuration 2_CH9400_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1880 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

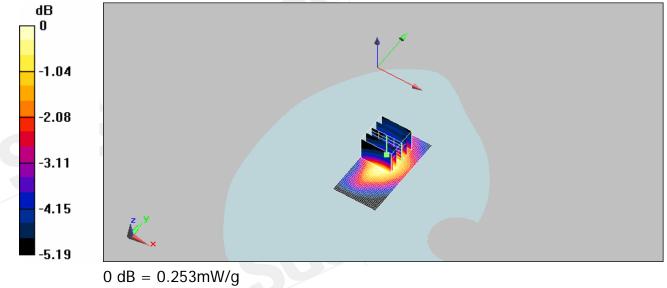
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.270 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.2 V/m; Power Drift = -0.113 dB Peak SAR (extrapolated) = 0.364 W/kg

SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.176 mW/g

Maximum value of SAR (measured) = 0.253 mW/g



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Date/Time: 9/18/2008 13:29:43

Configuration 2_CH9538_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1908 MHz; σ = 1.48 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

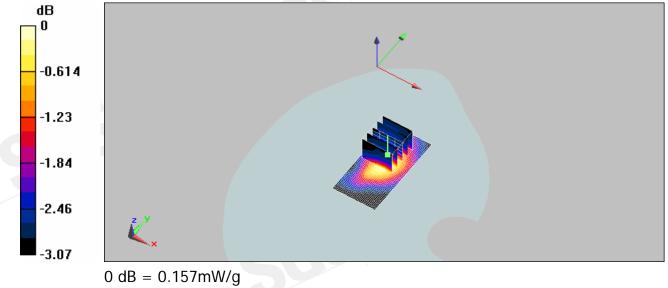
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.163 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.17 V/m; Power Drift = -0.120 dB Peak SAR (extrapolated) = 0.191 W/kg

SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.157 mW/g



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Date/Time: 9/18/2008 14:51:26

Configuration 3_CH9262_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz; Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section **DASY5** Configuration:

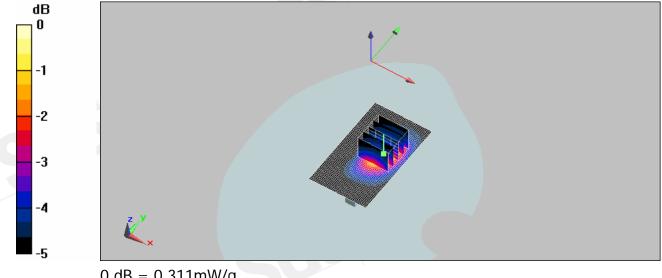
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.334 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.79 V/m; Power Drift = -0.073 dB Peak SAR (extrapolated) = 0.573 W/kg

SAR(1 g) = 0.292 mW/g; SAR(10 g) = 0.192 mW/g

Maximum value of SAR (measured) = 0.311 mW/g



 $0 \, dB = 0.311 \, mW/g$

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Date/Time: 9/18/2008 15:13:08

Configuration 3_CH9400_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1880 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

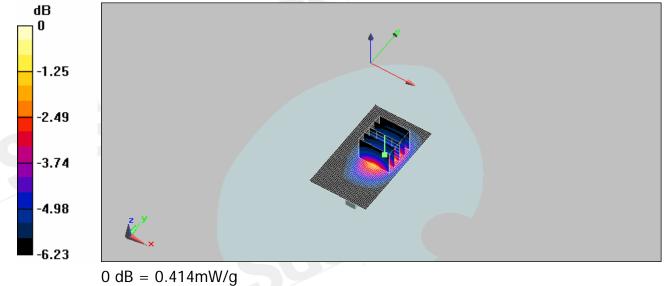
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.417 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.84 V/m; Power Drift = 0.016 dB Peak SAR (extrapolated) = 0.727 W/kg

SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.236 mW/g

Maximum value of SAR (measured) = 0.414 mW/g



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Date/Time: 9/18/2008 15:37:12

Configuration 3_CH9538_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1908 MHz; σ = 1.48 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

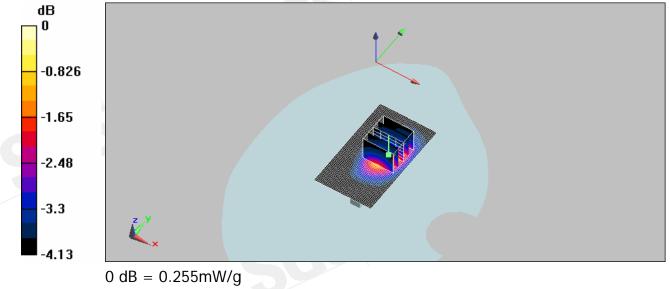
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.270 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.52 V/m; Power Drift = 0.015 dB Peak SAR (extrapolated) = 0.402 W/kg

SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.168 mW/g

Maximum value of SAR (measured) = 0.255 mW/g



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Date/Time: 9/18/2008 17:03:55

Configuration 4_CH9262_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

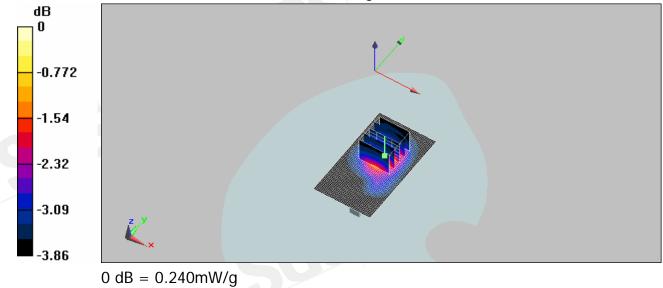
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.245 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.72 V/m; Power Drift = 0.126 dB Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.166 mW/g

Maximum value of SAR (measured) = 0.240 mW/g



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Date/Time: 9/18/2008 16:38:34

Configuration 4_CH9400_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1880 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration:

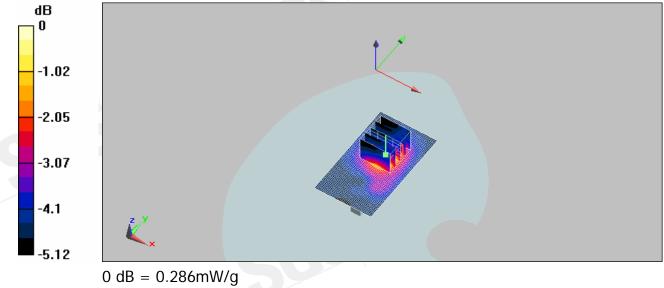
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.315 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.06 V/m; Power Drift = -0.149 dB Peak SAR (extrapolated) = 0.457 W/kg

SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.182 mW/g

Maximum value of SAR (measured) = 0.286 mW/g



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Date/Time: 9/18/2008 16:15:28

Configuration 4_CH9538_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1908 MHz; σ = 1.48 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

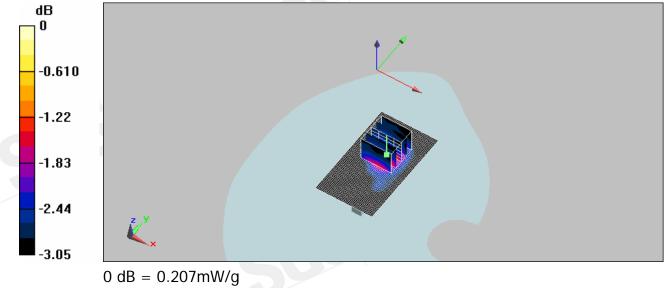
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.210 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.41 V/m; Power Drift = 0.187 dB Peak SAR (extrapolated) = 0.292 W/kg

SAR(1 g) = 0.200 mW/g; SAR(10 g) = 0.151 mW/g

Maximum value of SAR (measured) = 0.207 mW/g



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Date/Time: 9/18/2008 17:41:45

Configuration 5_CH9262_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1852.4 MHz; Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section **DASY5** Configuration:

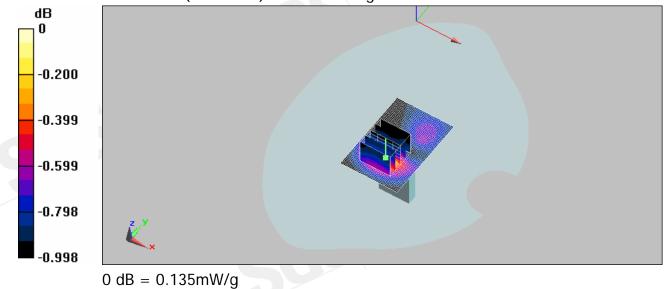
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.138 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.85 V/m; Power Drift = 0.00773 dB Peak SAR (extrapolated) = 0.142 W/kg

SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.121 mW/g

Maximum value of SAR (measured) = 0.135 mW/g



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Date/Time: 9/18/2008 18:07:04

Configuration 5_CH9400_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1880 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

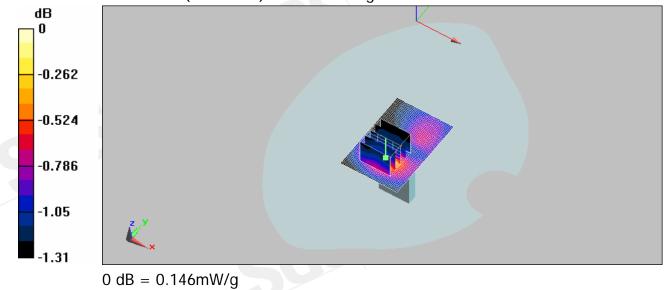
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.148 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.96 V/m; Power Drift = 0.019 dB Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.127 mW/g

Maximum value of SAR (measured) = 0.146 mW/g



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Date/Time: 9/18/2008 18:31:07

Configuration 5_CH9538_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1908 MHz; σ = 1.48 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

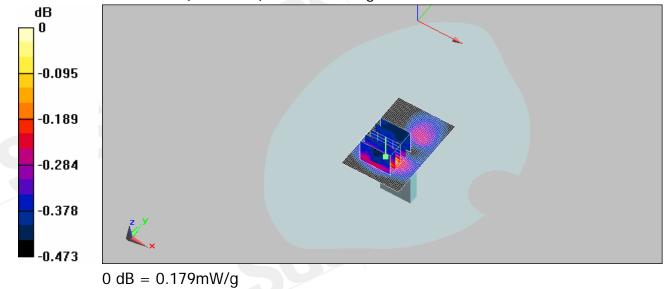
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.179 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.7 V/m; Power Drift = 0.050 dB Peak SAR (extrapolated) = 0.180 W/kg

SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.171 mW/g

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



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Date/Time: 9/18/2008 20:01:28

Configuration 6_CH9262_HSDPA mode

DUT: C152,

Communication System: WCDMA B2; Frequency: 1852.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.44 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

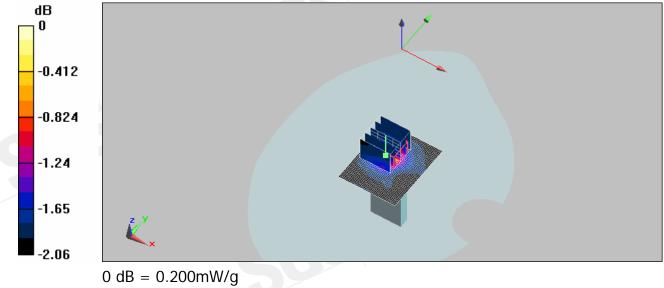
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.193 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.2 V/m; Power Drift = -0.00707 dB Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.184 mW/g; SAR(10 g) = 0.152 mW/g

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



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Date/Time: 9/18/2008 19:35:32

Configuration 6_CH9400_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1880 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

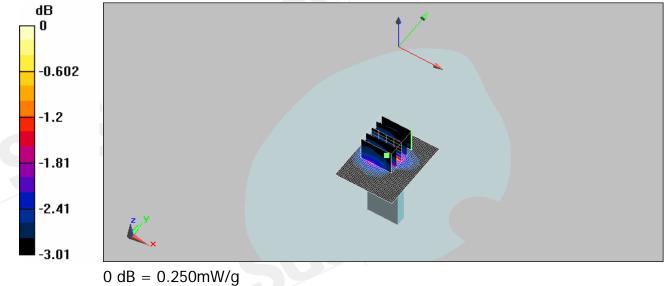
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.278 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.5 V/m; Power Drift = -0.00442 dB Peak SAR (extrapolated) = 0.504 W/kg

SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.250 mW/g



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Date/Time: 9/18/2008 19:12:03

Configuration 6_CH9538_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND2; Frequency: 1907.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band2 Medium parameters used: f = 1908 MHz; σ = 1.48 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

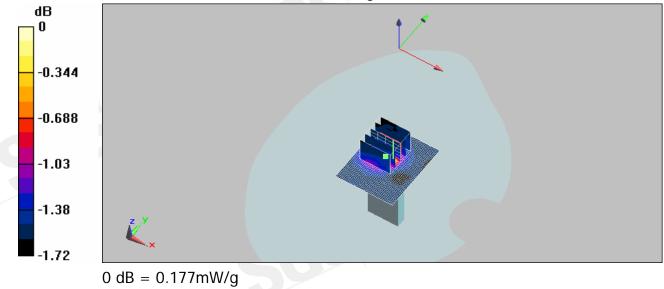
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.207 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.9 V/m; Power Drift = -0.111 dB Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.163 mW/g; SAR(10 g) = 0.140 mW/g

Maximum value of SAR (measured) = 0.177 mW/g



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Date/Time: 9/19/2008 01:25:05

Configuration 1_CH4132

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 826.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.946 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

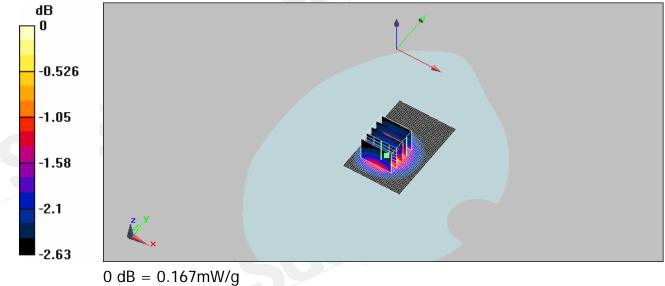
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.159 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.4 V/m; Power Drift = 0.103 dB Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.157 mW/g; SAR(10 g) = 0.128 mW/g

Maximum value of SAR (measured) = 0.167 mW/g



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Date/Time: 9/19/2008 01:49:20

Configuration 1_CH4183

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 837 MHz; σ = 0.958 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

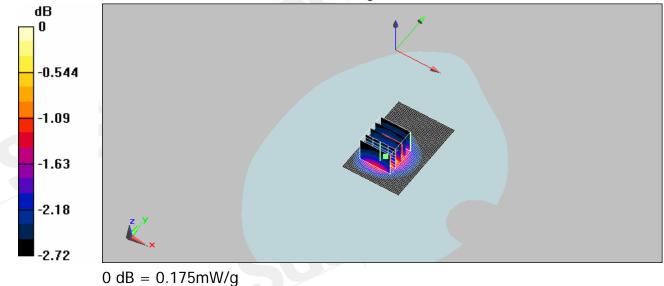
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.165 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.7 V/m; Power Drift = 0.016 dB Peak SAR (extrapolated) = 0.217 W/kg

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.132 mW/g

Maximum value of SAR (measured) = 0.175 mW/g



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Date/Time: 9/19/2008 02:11:37

Configuration 1_CH4233

DUT: C152,

Communication System: WCDMA B5; Frequency: 846.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 847 MHz; σ = 0.969 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

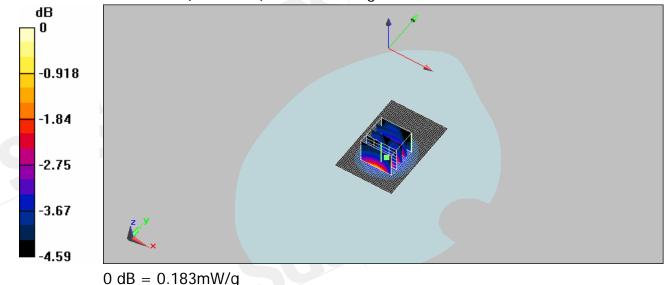
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.102 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.24 V/m; Power Drift = -0.156 dB Peak SAR (extrapolated) = 0.273 W/kg

SAR(1 g) = 0.176 mW/g; SAR(10 g) = 0.123 mW/g

Maximum value of SAR (measured) = 0.183 mW/g



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Date/Time: 9/19/2008 03:31:12

Configuration 2_CH4132

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 826.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.946 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

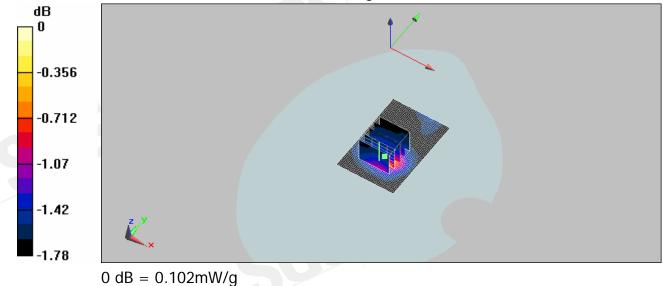
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.097 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.07 V/m; Power Drift = 0.099 dB Peak SAR (extrapolated) = 0.135 W/kg

SAR(1 g) = 0.098 mW/g; SAR(10 g) = 0.084 mW/g

Maximum value of SAR (measured) = 0.102 mW/g



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Date/Time: 9/19/2008 03:09:58

Configuration 2_CH4183

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 837 MHz; σ = 0.958 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

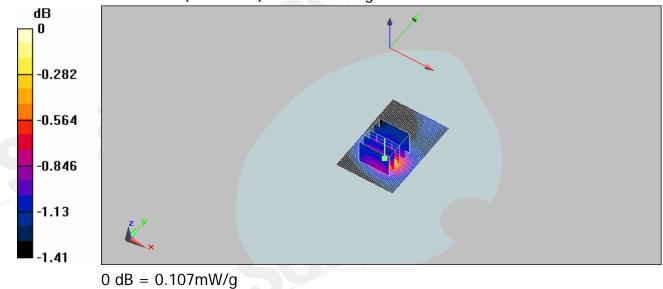
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.107 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.77 V/m; Power Drift = -0.154 dB Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.107 mW/g



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Date/Time: 9/19/2008 02:44:48

Configuration 2_CH4233

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 846.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 847 MHz; σ = 0.969 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

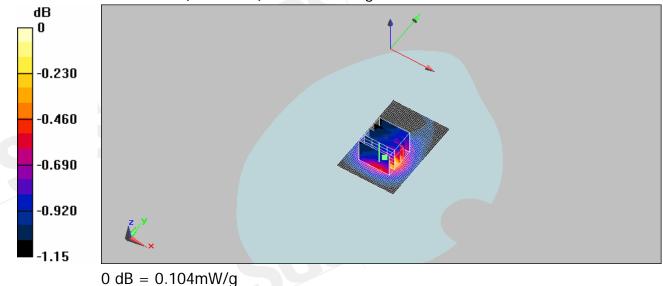
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.104 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.86 V/m; Power Drift = -0.174 dB Peak SAR (extrapolated) = 0.109 W/kg

SAR(1 g) = 0.102 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.104 mW/g



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Date/Time: 9/19/2008 04:06:07

Configuration 3_CH4132

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 826.4 MHz;Duty Cycle: 1:1 Medium: GMS 850 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.946 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

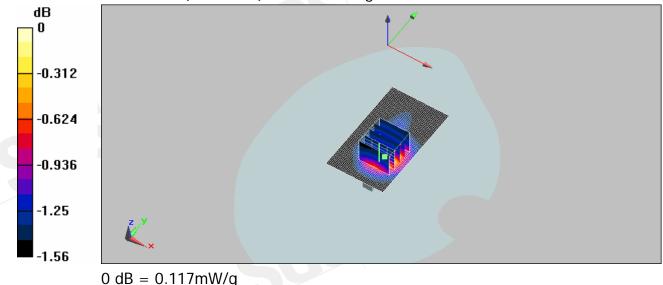
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.116 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.6 V/m; Power Drift = 0.069 dB Peak SAR (extrapolated) = 0.129 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.117 mW/g



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Date/Time: 9/19/2008 04:30:40

Configuration 3_CH4183

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium: GMS 850 Medium parameters used: f = 837 MHz; σ = 0.958 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³

Phantom section: Flat Section DASY5 Configuration:

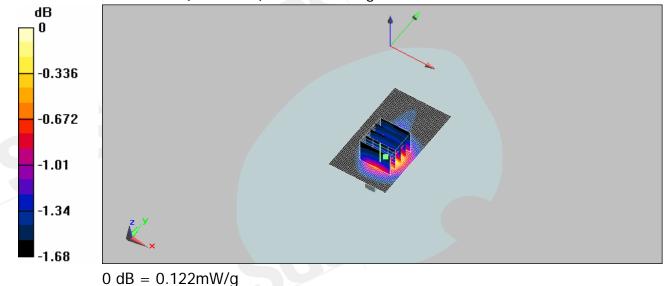
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.129 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.9 V/m; Power Drift = -0.080 dB Peak SAR (extrapolated) = 0.138 W/kg

SAR(1 g) = 0.119 mW/g; SAR(10 g) = 0.105 mW/g

Maximum value of SAR (measured) = 0.122 mW/g



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Date/Time: 9/19/2008 05:06:00

Configuration 3_CH4233

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 846.6 MHz;Duty Cycle: 1:1 Medium: GMS 850 Medium parameters used: f = 847 MHz; σ = 0.969 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³

Phantom section: Flat Section DASY5 Configuration:

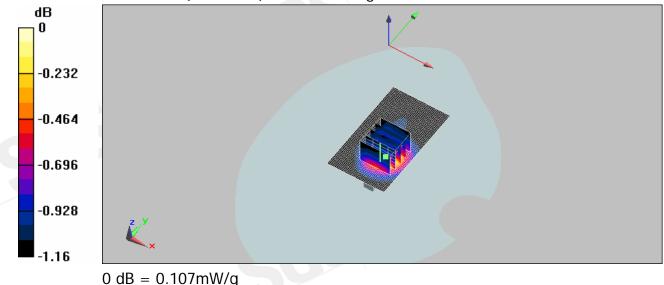
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.111 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.3 V/m; Power Drift = -0.084 dB Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.107 mW/g



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Date/Time: 9/19/2008 06:31:14

Configuration 4_CH4132

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 826.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.946 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

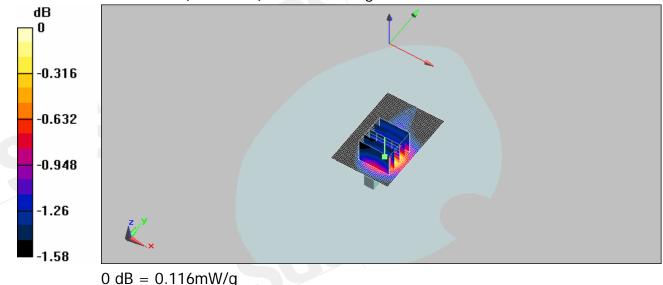
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.119 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.8 V/m; Power Drift = 0.043 dB Peak SAR (extrapolated) = 0.133 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.116 mW/g



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Date/Time: 9/19/2008 06:08:50

Configuration 4_CH4183

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 837 MHz; σ = 0.958 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

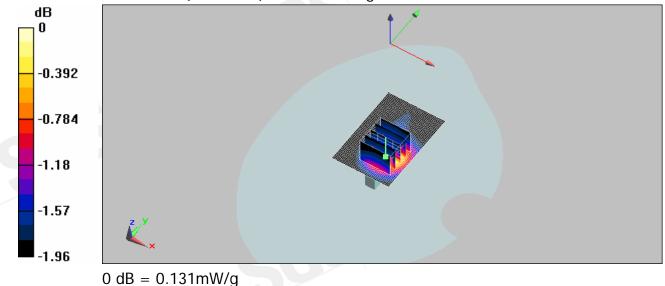
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.135 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.3 V/m; Power Drift = -0.031 dB Peak SAR (extrapolated) = 0.155 W/kg

SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.131 mW/g



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Date/Time: 9/19/2008 05:44:34

Configuration 4_CH4233

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 846.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 847 MHz; σ = 0.969 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

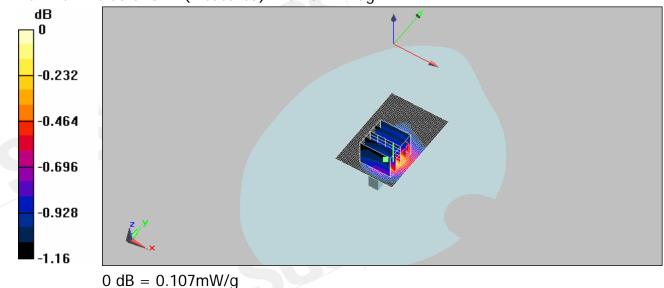
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.107 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.4 V/m; Power Drift = -0.085 dB Peak SAR (extrapolated) = 0.115 W/kg

SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.096 mW/g

Maximum value of SAR (measured) = 0.107 mW/g



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Date/Time: 9/19/2008 07:07:08

Configuration 5_CH4132

DUT: C152,

Communication System: WCDMA B5; Frequency: 826.4 MHz; Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used (interpolated): f = 826.4 MHz; $\sigma = 0.946$ mho/m; $\epsilon_r = 56.3$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section **DASY5** Configuration:

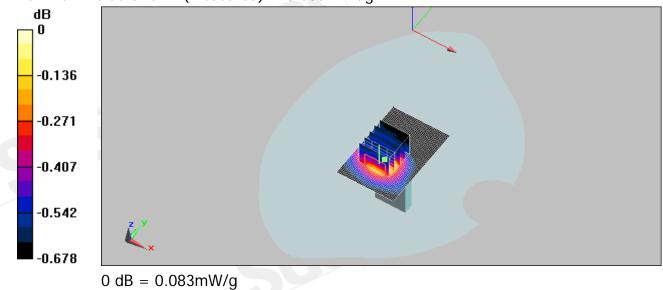
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.084 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.19 V/m; Power Drift = 0.012 dB Peak SAR (extrapolated) = 0.084 W/kg

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.078 mW/g

Maximum value of SAR (measured) = 0.083 mW/g



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Date/Time: 9/19/2008 07:31:00

Configuration 5_CH4183

DUT: C152,

Communication System: WCDMA B5; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 837 MHz; σ = 0.958 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

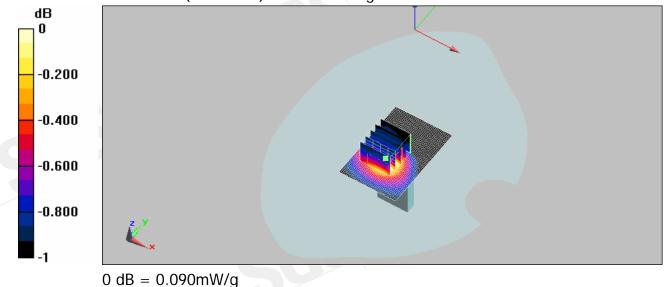
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.093 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.35 V/m; Power Drift = 0.035 dB Peak SAR (extrapolated) = 0.094 W/kg

SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.083 mW/g

Maximum value of SAR (measured) = 0.090 mW/g



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Date/Time: 9/19/2008 07:53:04

Configuration 5_CH4233

DUT: C152,

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 847 MHz; σ = 0.969 mho/m; ϵ_r = 56.2; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration:

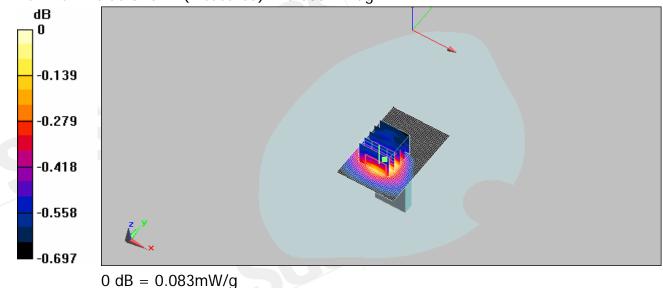
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.085 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.08 V/m; Power Drift = 0.025 dB Peak SAR (extrapolated) = 0.084 W/kg

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.078 mW/g

Maximum value of SAR (measured) = 0.083 mW/g



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Date/Time: 9/19/2008 09:15:13

Configuration 6_CH4132

DUT: C152,

Communication System: WCDMA B5; Frequency: 826.4 MHz;Duty Cycle: 1:1 Medium: WCDMA BAND5 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.946 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

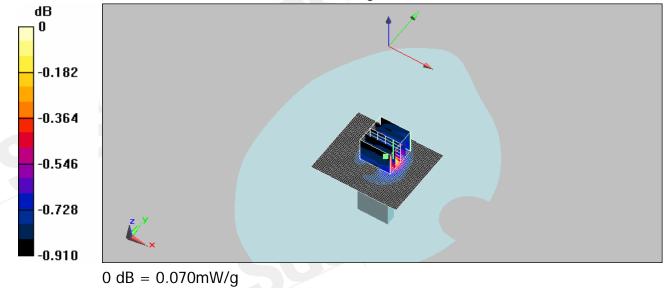
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.070 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.93 V/m; Power Drift = -0.041 dB Peak SAR (extrapolated) = 0.078 W/kg

SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.062 mW/g

Maximum value of SAR (measured) = 0.070 mW/g



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Date/Time: 9/19/2008 08:50:36

Configuration 6_CH4183

DUT: C152,

Communication System: WCDMA B5; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium: WCDMA BAND5 Medium parameters used: f = 837 MHz; σ = 0.958 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

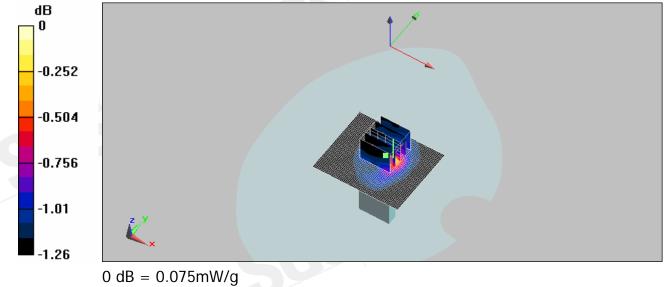
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.076 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.96 V/m; Power Drift = -0.070 dB Peak SAR (extrapolated) = 0.091 W/kg

SAR(1 g) = 0.072 mW/g; SAR(10 g) = 0.064 mW/g

Maximum value of SAR (measured) = 0.075 mW/g



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Date/Time: 9/19/2008 08:28:32

Configuration 6_CH4233

DUT: C152,

Communication System: WCDMA B5; Frequency: 846.6 MHz;Duty Cycle: 1:1 Medium: WCDMA BAND5 Medium parameters used: f = 847 MHz; σ = 0.969 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

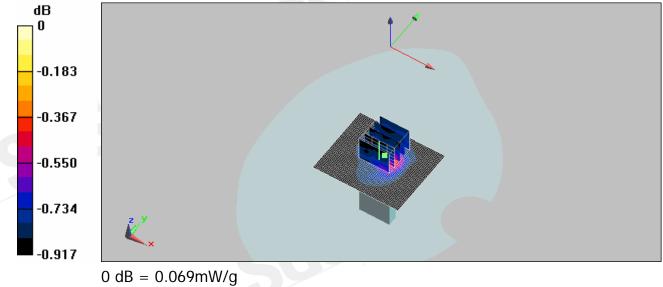
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.070 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.81 V/m; Power Drift = 0.197 dB Peak SAR (extrapolated) = 0.079 W/kg

SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.061 mW/g

Maximum value of SAR (measured) = 0.069 mW/g



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Date/Time: 9/19/2008 11:11:40

Configuration 1_CH4132_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 826.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.946 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

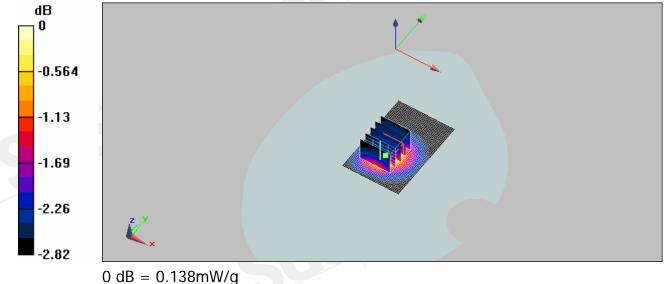
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.145 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.8 V/m; Power Drift = -0.100 dB Peak SAR (extrapolated) = 0.171 W/kg

SAR(1 g) = 0.129 mW/g; SAR(10 g) = 0.103 mW/g

Maximum value of SAR (measured) = 0.138 mW/g



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Date/Time: 9/19/2008 11:35:35

Configuration 1_CH4183_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 837 MHz; σ = 0.958 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

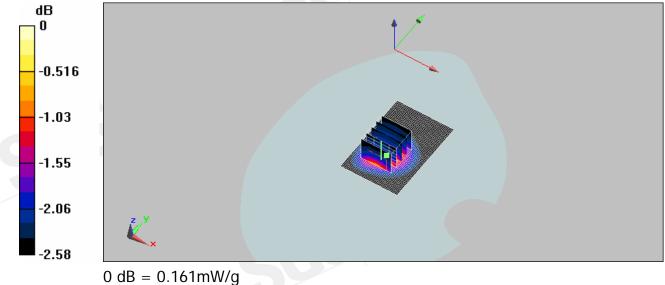
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.155 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.3 V/m; Power Drift = 0.027 dB Peak SAR (extrapolated) = 0.196 W/kg

SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.123 mW/g

Maximum value of SAR (measured) = 0.161 mW/g



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Date/Time: 9/19/2008 12:07:57

Configuration 1_CH4233_HSDPA mode

DUT: C152,

Communication System: WCDMA B5; Frequency: 846.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 847 MHz; σ = 0.969 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

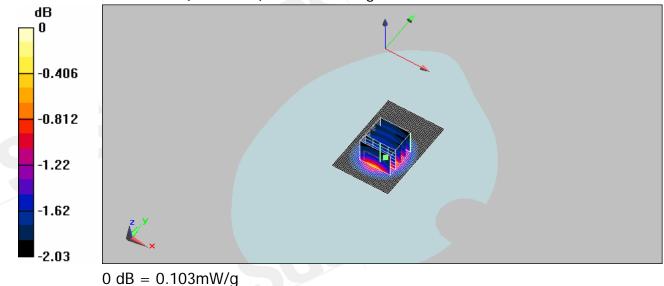
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.103 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.18 V/m; Power Drift = 0.050 dB Peak SAR (extrapolated) = 0.120 W/kg

SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.084 mW/g

Maximum value of SAR (measured) = 0.103 mW/g



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Date/Time: 9/19/2008 13:32:44

Configuration 2_CH4132_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 826.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.946 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

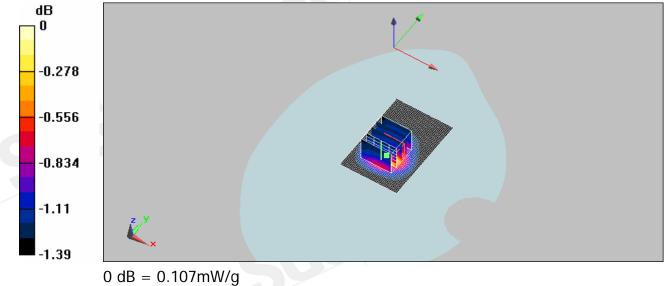
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.106 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.81 V/m; Power Drift = 0.055 dB Peak SAR (extrapolated) = 0.117 W/kg

SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.107 mW/g



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Date/Time: 9/19/2008 13:09:16

Configuration 2_CH4183_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 837 MHz; σ = 0.958 mho/m; ϵ_r = 56.3; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration:

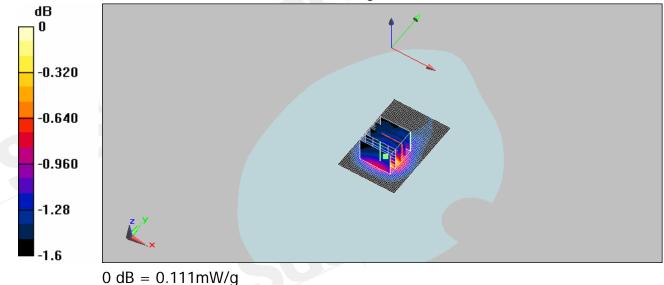
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.111 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.89 V/m; Power Drift = -0.087 dB Peak SAR (extrapolated) = 0.123 W/kg

SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.111 mW/g



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Date/Time: 9/19/2008 12:43:06

Configuration 2_CH4233_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 846.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 847 MHz; σ = 0.969 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

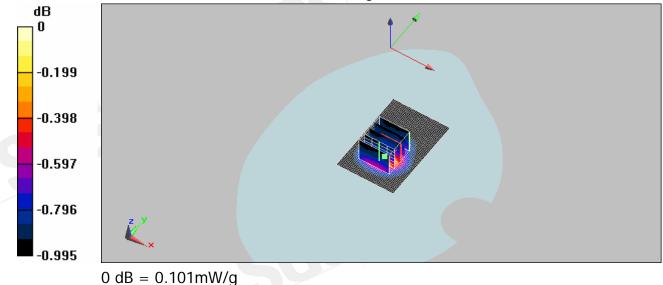
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.101 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.64 V/m; Power Drift = 0.052 dB Peak SAR (extrapolated) = 0.106 W/kg

SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.091 mW/g

Maximum value of SAR (measured) = 0.101 mW/g



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Date/Time: 9/19/2008 14:09:42

Configuration 3_CH4132_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 826.4 MHz;Duty Cycle: 1:1 Medium: GMS 850 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.946 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

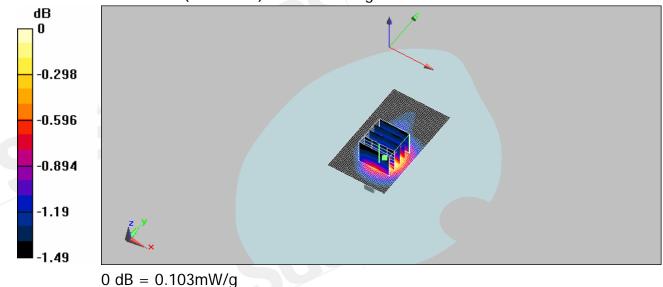
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.111 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.3 V/m; Power Drift = -0.141 dB Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.090 mW/g

Maximum value of SAR (measured) = 0.103 mW/g



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Date/Time: 9/19/2008 14:33:42

Configuration 3_CH4183_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium: GMS 850 Medium parameters used: f = 837 MHz; $\sigma = 0.958$ mho/m; $\epsilon_r = 56.3$; $\rho =$ 1000 kg/m^3

Phantom section: Flat Section **DASY5** Configuration:

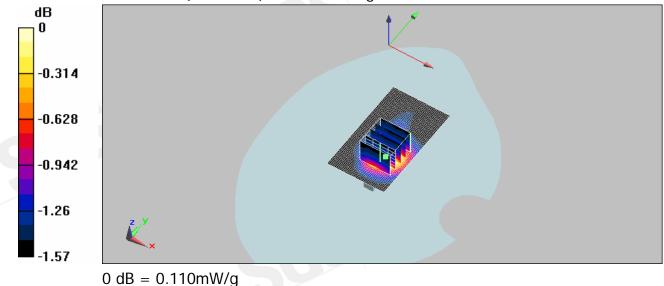
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.120 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.5 V/m; Power Drift = -0.080 dB Peak SAR (extrapolated) = 0.124 W/kg

SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.110 mW/g



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Date/Time: 9/19/2008 14:54:20

Configuration 3_CH4233_HSDPA mode

DUT: C152,

Communication System: WCDMA B5; Frequency: 846.6 MHz;Duty Cycle: 1:1 Medium: WCDMA BAND5 Medium parameters used: f = 847 MHz; σ = 0.969 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

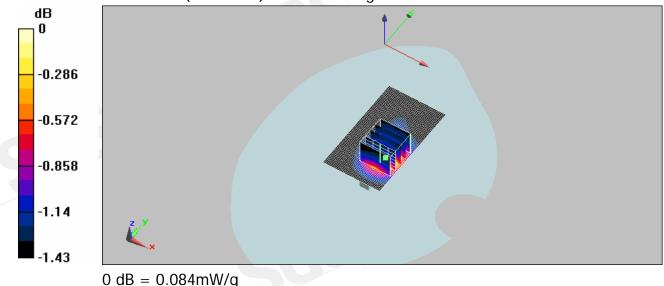
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.087 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.99 V/m; Power Drift = -0.062 dB Peak SAR (extrapolated) = 0.094 W/kg

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.073 mW/g

Maximum value of SAR (measured) = 0.084 mW/g



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Date/Time: 9/19/2008 16:21:44

Configuration 4_CH4132_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 826.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.946 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

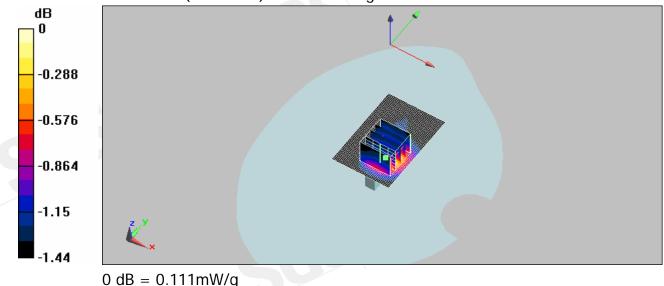
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.112 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.5 V/m; Power Drift = 0.057 dB Peak SAR (extrapolated) = 0.126 W/kg

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.098 mW/g

Maximum value of SAR (measured) = 0.111 mW/g



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Date/Time: 9/19/2008 15:58:05

Configuration 4_CH4183_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 837 MHz; σ = 0.958 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

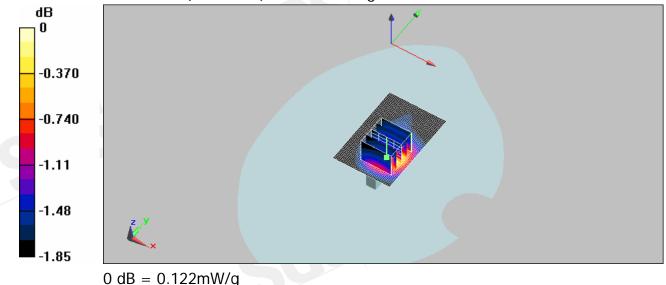
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.126 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.9 V/m; Power Drift = -0.072 dB Peak SAR (extrapolated) = 0.142 W/kg

SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.104 mW/g

Maximum value of SAR (measured) = 0.122 mW/g



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Date/Time: 9/19/2008 15:33:08

Configuration 4_CH4233_HSDPA mode

DUT: C152,

Communication System: WCDMA BAND5; Frequency: 846.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 847 MHz; σ = 0.969 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

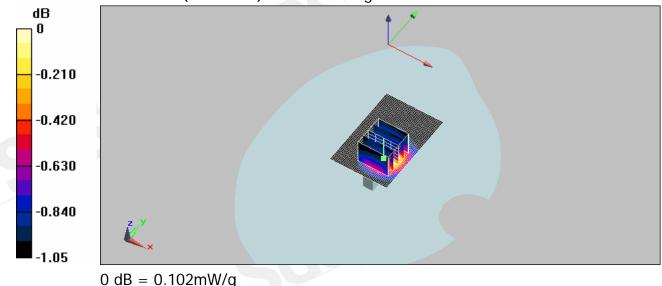
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.106 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.2 V/m; Power Drift = -0.070 dB Peak SAR (extrapolated) = 0.109 W/kg

SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.093 mW/g

Maximum value of SAR (measured) = 0.102 mW/g



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Date/Time: 9/19/2008 16:59:42

Configuration 5_CH4132_HSDPA mode

DUT: C152,

Communication System: WCDMA B5; Frequency: 826.4 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.946 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

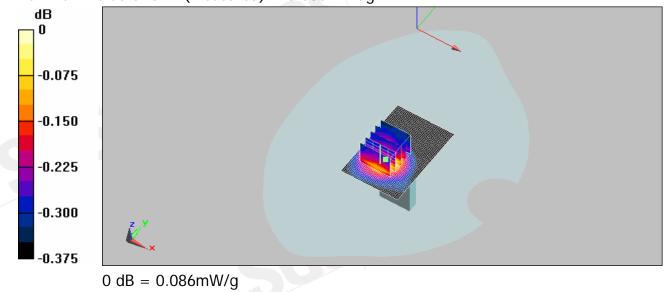
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.087 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.54 V/m; Power Drift = -0.082 dB Peak SAR (extrapolated) = 0.086 W/kg

SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.084 mW/g

Maximum value of SAR (measured) = 0.086 mW/g



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Date/Time: 9/19/2008 17:25:47

Configuration 5_CH4183_HSDPA mode

DUT: C152,

Communication System: WCDMA B5; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 837 MHz; σ = 0.958 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

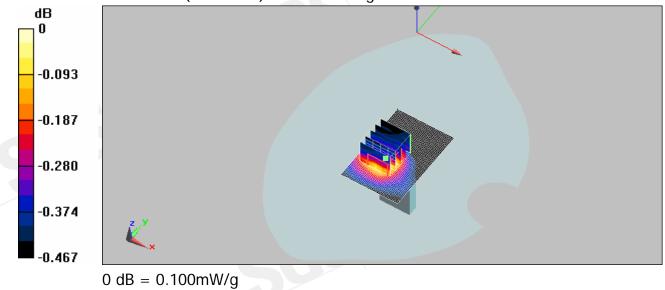
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.103 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.2 V/m; Power Drift = -0.108 dB Peak SAR (extrapolated) = 0.100 W/kg

SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.096 mW/g

Maximum value of SAR (measured) = 0.100 mW/g



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Date/Time: 9/19/2008 17:48:37

Configuration 5_CH4233_HSDPA mode

DUT: C152,

Communication System: WCDMA B5; Frequency: 846.6 MHz; Duty Cycle: 1:1 Medium: WCDMA Band5 Medium parameters used: f = 847 MHz; σ = 0.969 mho/m; ϵ_r = 56.2; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section DASY5 Configuration:

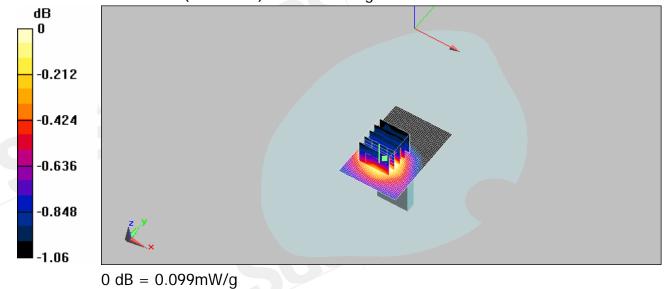
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan : Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.105 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.52 V/m; Power Drift = 0.082 dB Peak SAR (extrapolated) = 0.103 W/kg

SAR(1 g) = 0.097 mW/g; SAR(10 g) = 0.090 mW/g

Maximum value of SAR (measured) = 0.099 mW/g



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Date/Time: 9/19/2008 18:26:53

Configuration 6_CH4132_HSDPA mode

DUT: C152,

Communication System: WCDMA B5; Frequency: 826.4 MHz;Duty Cycle: 1:1 Medium: WCDMA BAND5 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.946 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

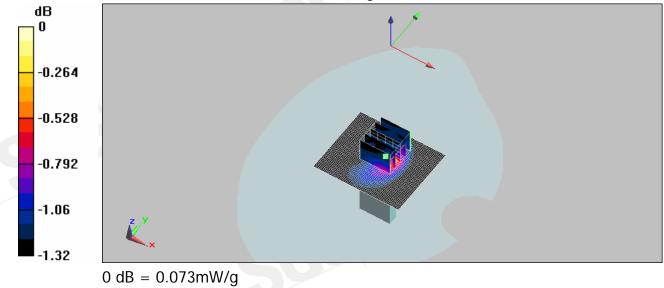
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.072 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.05 V/m; Power Drift = 0.031 dB Peak SAR (extrapolated) = 0.093 W/kg

SAR(1 g) = 0.071 mW/g; SAR(10 g) = 0.062 mW/g

Maximum value of SAR (measured) = 0.073 mW/g



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Date/Time: 9/19/2008 18:52:57

Configuration 6_CH4183_HSDPA mode

DUT: C152,

Communication System: WCDMA B5; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium: WCDMA BAND5 Medium parameters used: f = 837 MHz; σ = 0.958 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³ Phantom section: Flat Section DASY5 Configuration:

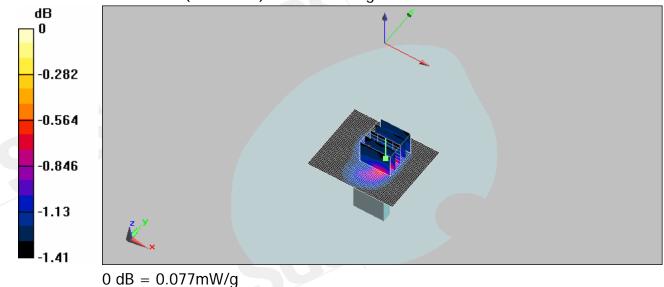
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.075 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.99 V/m; Power Drift = 0.043 dB Peak SAR (extrapolated) = 0.092 W/kg

SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.065 mW/g

Maximum value of SAR (measured) = 0.077 mW/g



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Date/Time: 9/19/2008 19:15:40

Configuration 6_CH4233_HSDPA mode

DUT: C152,

Communication System: WCDMA B5; Frequency: 846.6 MHz;Duty Cycle: 1:1 Medium: WCDMA BAND5 Medium parameters used: f = 847 MHz; σ = 0.969 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³ Phantom section: Flat Section DASY4 Configuration:

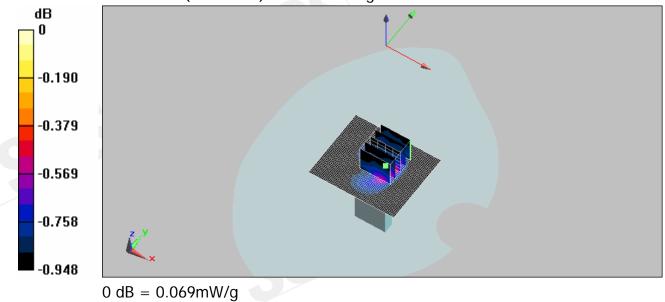
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Body/Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.068 mW/g

Body/Zoom Scan : Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.83 V/m; Power Drift = -0.026 dB Peak SAR (extrapolated) = 0.075 W/kg

SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.060 mW/g

Maximum value of SAR (measured) = 0.069 mW/g



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5. System Verification

Date/Time: 9/17/2008 02:33

DUT: Dipole 835 MHz; Type: D835V2; Serial:4d063

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium: HSL900 Medium parameters used: f = 835 MHz; σ = 0.955 mho/m; ϵ_r = 56.2; ρ = 1000 kg/m³

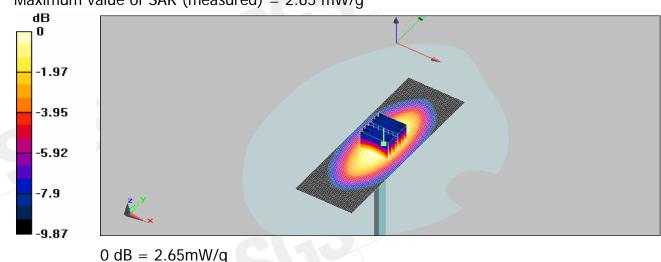
Phantom section: Flat Section

- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Pin=250mW, Area Scan: Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.68 mW/g

Pin=250mW, Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 54.2 V/m; Power Drift = -0.023 dB Peak SAR (extrapolated) = 3.4 W/kg

SAR(1 g) = 2.34 mW/g; SAR(10 g) = 1.54 mW/g



Maximum value of SAR (measured) = 2.65 mW/g

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Date/Time: 9/19/2008 00:46

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d063

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium: HSL900 Medium parameters used: f = 835 MHz; σ = 0.955 mho/m; ϵ_r = 56.3; ρ = 1000 kg/m³

Phantom section: Flat Section

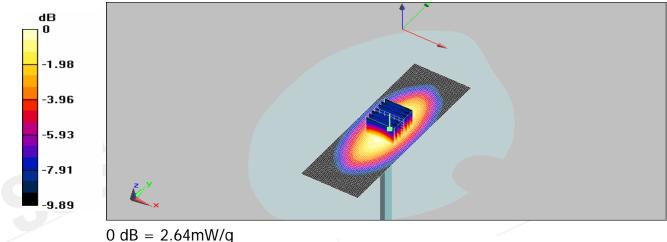
- Probe: ES3DV3 SN3172; ConvF(5.61, 5.61, 5.61); Calibrated: 6/23/2008
- Sensor-Surface: (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Pin=250mW, Area Scan): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.64 mW/g

Pin=250mW,Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 54 V/m; Power Drift = -0.020 dB Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.53 mW/g

Maximum value of SAR (measured) = 2.64 mW/g



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Date/Time: 9/17/2008 12:18

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d027

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1 Medium: HSL900 Medium parameters used: f = 1900 MHz; σ = 1.46 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Phantom section: Elat Section

Phantom section: Flat Section

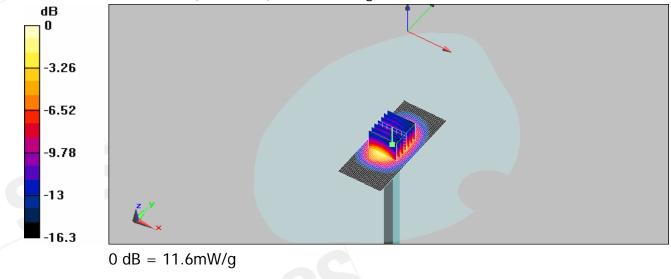
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Pin=250mW, **Area Scan:** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.4 mW/g

Pin=250mW, Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 91.4 V/m; Power Drift = 0.183 dB Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 9.6 mW/g; SAR(10 g) = 4.95 mW/g

Maximum value of SAR (measured) = 11.6 mW/g



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Date/Time: 9/18/2008 01:27

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d027

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1 Medium: HSL900 Medium parameters used: f = 1900 MHz; σ = 1.47 mho/m; ϵ_r = 52.4; ρ = 1000 kg/m³ Dependence Section: Electrony Electrony

Phantom section: Flat Section

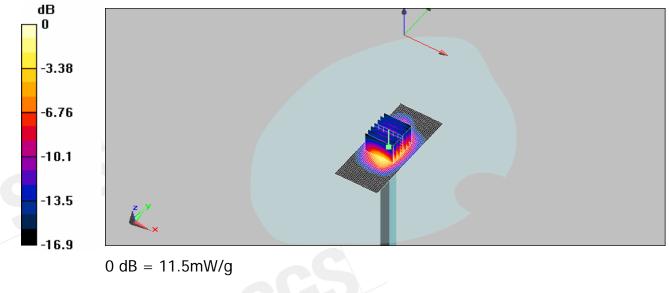
- Probe: ES3DV3 SN3172; ConvF(4.73, 4.73, 4.73); Calibrated: 6/23/2008
- Sensor-Surface: (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 5/7/2008
- Phantom: SAM1; Type: SAM;
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Pin=250mW, **Area Scan:** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 14.4 mW/g

Pin=250mW, Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 92.2 V/m; Power Drift = -0.047 dB Peak SAR (extrapolated) = 17.4 W/kg

SAR(1 g) = 9.54 mW/g; SAR(10 g) = 4.92 mW/g

Maximum value of SAR (measured) = 11.5 mW/g



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6. DAE & Probe Calibration certificate

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lient SQ2				
	(Avoleu)		e No: DAE4-856_May08	
CALIBRATION CE	RTIFICATE		F Diskell Petersing	
Dbject	DAE4 - SD 000 [004 BG - SN: 856	and mail sole a select	
Calibration procedure(s)	QA CAL-06.v12		CONTRACTOR OF THE OWNER	
	Calibration proce	dure for the data acquisition e	electronics (DAE)	
Calibration dete:	May 7, 2008		Piccial and a state of the	
Condition of the calibrated item	In Tolerance		restore subrinkly it.	
Calibration Equipment used (M&TE	critical for calibration)			
Primary Standards	ID #	Cal Date (Certificate No.) 04-Oct-07 (No: 6467)	Scheduled Calibration Oct-08	
Primary Standards Fluke Process Calibrator Type 702	ID #	Cal Date (Certificate No.) 04-Oct-07 (No: 6467) 03-Oct-07 (No: 6465)		
Primary Standards Fluice Process Calibrator Type 702 Keithley Multimeter Type 2001 Secondary Standards	ID # SN: 6295803 SN: 0610276 ID #	04-Oct-07 (No: 6467) 03-Oct-07 (No: 6465) Check Date (in house)	Oct-08 Oct-08 Scheduled Check	
Primary Standards Fluke Process Calibrator Type 702 Keithley Multimeter Type 2001 Secondary Standards	ID # SN: 6295803 SN: 0810278	04-Oct-07 (No: 6467) 03-Oct-07 (No: 6465) Check Date (in house)	Oct-08 Oct-08	
Primary Standards Fluke Process Calibrator Type 702 Keithley Multimeter Type 2001	ID # SN: 6295803 SN: 0810278 ID # SE UMS 006 AB 100	04-Oct-07 (No: 6467) 03-Oct-07 (No: 6465) Check Date (in house)	Oct-08 Oct-08 Scheduled Check	
Primary Standards Fluke Process Calibrator Type 702 Keithley Multimeter Type 2001 Secondary Standards	ID # SN: 6295803 SN: 0610276 ID #	04-Oct-07 (No: 6467) 03-Oct-07 (No: 6465) Check Date (in house) 1 25-Jun-07 (in house check)	Oct-08 Oct-08 Scheduled Check In house check: Jun-08 Signature	
Primary Standards Flyke Process Calibrator Type 702 Keithley Multimeter Type 2001 Secondary Standards Calibrator Box V1.1	ID # SN: 6295803 SN: 0810278 ID # SE UMS 006 AB 100	04-Oct-07 (No: 6467) 03-Oct-07 (No: 6465) Check Date (in house) 1 25-Jun-07 (in house check) Function	Oct-08 Oct-08 Scheduled Check In house check: Jun-08	

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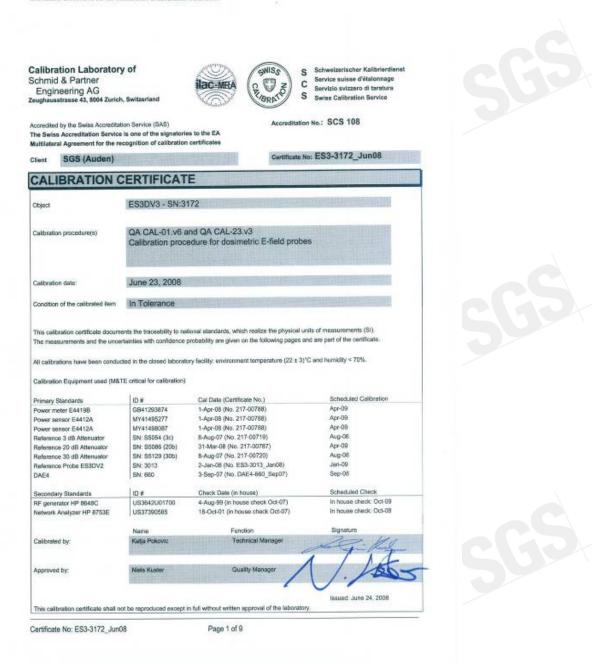
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No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路 134 號 f (886-2) 2298-0488







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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



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Schweizerischer Kallbrierdie Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

SG

TSL NORMx,y,z ConvF DCP Polarization m Polarization 9

tissue simulating liquid sensitivity in free space sensitivity in TSL / NORMx,y,z diode compression point o rotation around probe axis 9 rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., 9 = 0 is normal to probe axis

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held b) devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)". February 2005

Methods Applied and Interpretation of Parameters:

- NORMx, y, z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx, y, z does not effect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx, y, z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Certificate No: ES3-3172_Jun08

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Report No. : ES/2008/90009 Page : 139 of 157

ES3DV3 SN:3172

SGS

June 23, 2008

Probe ES3DV3

SN:3172

Manufactured: Calibrated:

January 23, 2008 June 23, 2008

Calibrated for DASY Systems (Note: non-compatible with DASY2 system!)

Certificate No: ES3-3172_Jun06

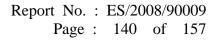
Page 3 of 9

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ES3DV3 SN:3172

SG

June 23, 2008

DASY - Parameters of Probe: ES3DV3 SN:3172

Sensitivity in Fre	e Space ^A		Diode C	ompression ^B
NormX	1.38 ± 10.1%	μV/(V/m) ²	DCP X	93 mV
NormY	1.15 ± 10.1%	$\mu V/(V/m)^2$	DCP Y	93 mV
NormZ	0.94 ± 10.1%	$\mu V/(V/m)^2$	DCP Z	89 mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

900 MHz Typical SAR gradient: 5 % per mm TSL

Sensor Cente	r to Phantom Surface Distance	3.0 mm	4.0 mm
SAR _{be} (%)	Without Correction Algorithm	11.8	6.1
SAR _{bs} [%]	With Correction Algorithm	0.6	0.2

Typical SAR gradient: 10 % per mm TSL 1810 MHz

Sensor Cente	r to Phantom Surface Distance	3.0 mm	4.0 mm
SAR _{be} [%]	Without Correction Algorithm	10.2	6.5
SAR _{se} [%]	With Correction Algorithm	0.4	0.4

Sensor Offset

Probe Tip to Sensor Center

2.0 mm

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

* The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 8). * Numerical linearization parameter: uncertainty not required.

Certificate No: ES3-3172_Jun08

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Report No. : ES/2008/90009 Page : 141 of 157

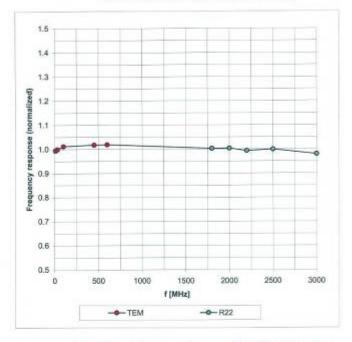
ES3DV3 SN:3172

SGS

June 23, 2008

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Certificate No: ES3-3172_Jun08

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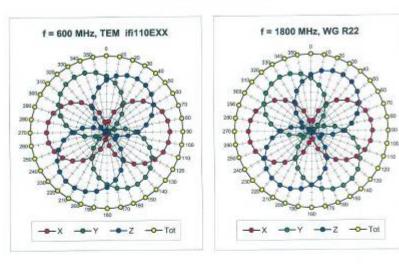
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Report No. : ES/2008/90009 Page : 142 of 157

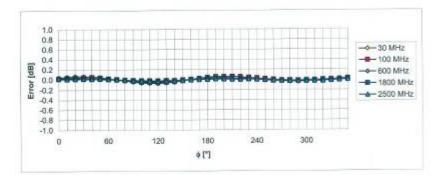
ES3DV3 SN:3172

SGS

June 23, 2008



Receiving Pattern (\$), 9 = 0°



Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Certificate No: ES3-3172 Jun08

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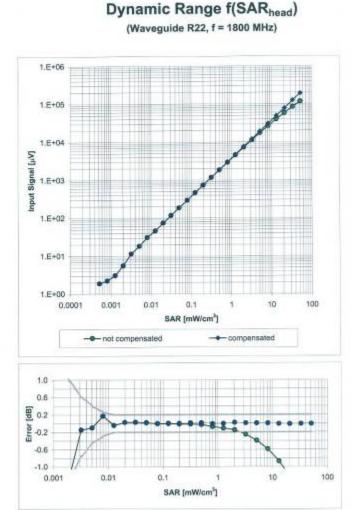
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Report No. : ES/2008/90009 Page : 143 of 157

June 23, 2008

ES3DV3 SN:3172

SGS



Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: ES3-3172 Jun08

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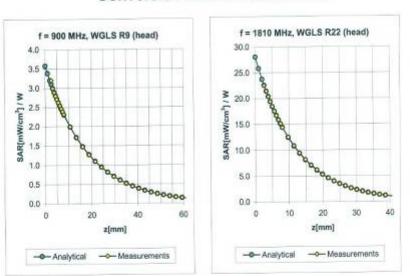
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June 23, 2008

ES3DV3 SN:3172

SGS



Conversion Factor Assessment

f [MHz]	Validity [MHz] ^C	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5±5%	0.97 ± 5%	0.23	2.36	5.66 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.32	2.07	4.97 ± 11.0% (k=2)
1950	±50/±100	Head	40.0 ± 5%	1.40 ± 5%	0.65	1.40	4.80 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.72	1,34	4.38 ± 11.0% (k=2)
000	+ 50 / + 100	Badu	55 Å ± 5%	1.05 + 5%	0.35	1.83	5.61 ± 11.0% (k=2)

	900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.35	1.63	0.01	111.076 (K-2)
1	1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.55	1.50	4.73	± 11.0% (k=2)
	1950	± 50 / ± 100	Body	$53.3\pm5\%$	$1.52 \pm 5\%$	0.80	1.35	4.57	± 11.0% (k=2)
	2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.75	1.25	3.92	± 11.0% (k=2)

⁰ The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

Certificate No: ES3-3172_Jun08

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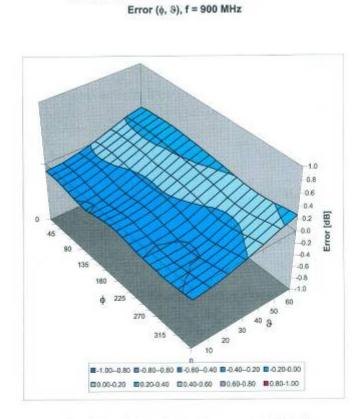
No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路 134 號 f (886-2) 2298-0488

Report No. : ES/2008/90009 Page : 145 of 157

ES3DV3 SN:3172

SGS

June 23, 2008



Deviation from Isotropy in HSL

Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

Certificate No: ES3-3172_Jun08

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7. Uncertainty Analysis

Error Description	Uncertainty value	Prob. Dist.	Div.	$\begin{pmatrix} (c_i) \\ 1g \end{pmatrix}$	$\begin{pmatrix} (c_i) \\ 10g \end{pmatrix}$	Std. Unc. (1g)	Std. Unc. (10g)	$\left \begin{array}{c} (v_i) \\ v_{eff} \end{array} \right $
Measurement System			1					
Probe Calibration	$\pm 5.9\%$	N	1	1	1	$\pm 5.9\%$	$\pm 5.9\%$	∞
Axial Isotropy	$\pm 4.7\%$	R	$\sqrt{3}$	0.7	0.7	$\pm 1.9\%$	$\pm 1.9\%$	00
Hemispherical Isotropy	$\pm 9.6\%$	R	$\sqrt{3}$	0.7	0.7	$\pm 3.9\%$	$\pm 3.9\%$	∞
Boundary Effects	±1.0%	R	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6 \%$	∞
Linearity	$\pm 4.7\%$	R	$\sqrt{3}$	1	1	$\pm 2.7\%$	$\pm 2.7\%$	∞
System Detection Limits	$\pm 1.0\%$	R	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Readout Electronics	$\pm 0.3\%$	N	1	1	1	$\pm 0.3\%$	$\pm 0.3\%$	∞
Response Time	±0.8%	R	$\sqrt{3}$	1	1	$\pm 0.5\%$	$\pm 0.5\%$	∞
Integration Time	$\pm 2.6\%$	R	$\sqrt{3}$	1	1	$\pm 1.5\%$	$\pm 1.5\%$	∞
RF Ambient Noise	±3.0%	R	$\sqrt{3}$	1	1	$\pm 1.7\%$	$\pm 1.7\%$	00
RF Ambient Reflections	$\pm 3.0\%$	R	$\sqrt{3}$	1	1	$\pm 1.7\%$	$\pm 1.7\%$	∞
Probe Positioner	$\pm 0.4\%$	R	$\sqrt{3}$	1	1	$\pm 0.2\%$	$\pm 0.2\%$	∞
Probe Positioning	$\pm 2.9\%$	R	$\sqrt{3}$	1	1	$\pm 1.7\%$	$\pm 1.7\%$	∞
Max. SAR Eval.	$\pm 1.0\%$	R	$\sqrt{3}$	1	1	$\pm 0.6\%$	±0.6%	00
Test Sample Related								
Device Positioning	$\pm 2.9\%$	N	1	1	1	$\pm 2.9\%$	$\pm 2.9\%$	145
Device Holder	$\pm 3.6\%$	Ν	1	1	1	$\pm 3.6\%$	$\pm 3.6\%$	5
Power Drift	$\pm 5.0\%$	R	$\sqrt{3}$	1	1	$\pm 2.9\%$	$\pm 2.9\%$	∞
Phantom and Setup	1		<		s 3		2	
Phantom Uncertainty	$\pm 4.0 \%$	R	$\sqrt{3}$	1	1	$\pm 2.3\%$	$\pm 2.3\%$	∞
Liquid Conductivity (target)	±5.0%	R	$\sqrt{3}$	0.64	0.43	$\pm 1.8 \%$	$\pm 1.2\%$	∞
Liquid Conductivity (meas.)	$\pm 2.5 \%$	N	1	0.64	0.43	$\pm 1.6 \%$	$\pm 1.1\%$	∞
Liquid Permittivity (target)	$\pm 5.0\%$	R	$\sqrt{3}$	0.6	0.49	$\pm 1.7\%$	$\pm 1.4 \%$	∞
Liquid Permittivity (meas.)	$\pm 2.5 \%$	N	1	0.6	0.49	$\pm 1.5\%$	$\pm 1.2\%$	∞
Combined Std. Uncertainty						$\pm 10.9\%$	$\pm 10.7\%$	387
Expanded STD Uncertain	ty					$\pm 21.9~\%$	$\pm 21.4\%$	



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8. Phantom description

SGS

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 1 245 9700, Fax +41 1 245 9779 info@speag.com, http://www.speag.com

Certificate of Conformity / First Article Inspection

ltem	SAM Twin Phantom V4.0
Type No	QD 000 P40 C
Series No	TP-1150 and higher
Manufacturer	SPEAG Zeughausstrasse 43 CH-8004 Zorich Switzerland

s

Tests

The series production process used allows the limitation to test of first articles

Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series items (called samples) or are tested at each item.

Test	Requirement	Details	Units tested
Dimensions	Compliant with the geometry according to the CAD model.	IT'IS CAD File (*)	First article, Samples
Material thickness of shell	Compliant with the requirements according to the standards	2mm +/- 0.2mm in flat and specific areas of head section	First article, Samples, TP-1314 ff.
Material thickness at ERP	Compliant with the requirements according to the standards	6mm +/- 0.2mm at ERP	First article, All items
Material parameters	Dielectric parameters for required frequencies	300 MHz – 6 GHz: Relative permittivity < 5, Loss tangent < 0.05	Material samples
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards if handled and cleaned according to the instructions. Observe technical Note for material compatibility.	DEGMBE based simulating liquids	Pre-series, First article, Material samples
Sagging	Compliant with the requirements according to the standards. Sagging of the flat section when filled with tissue simulating liquid.	< 1% typical < 0.8% if filled with 155mm of HSL900 and without DUT below	Prototypes, Sample testing

Standards

- CENELEC EN 50361 IEEE Std 1528-2003
- [1] [2] [3] [4] IEC 62209 Part I

FCC OET Bulletin 65, Supplement C, Edition 01-01 The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of the other documents.

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Conformity

Signature / Stamp

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standards [1] to [4].

Date

07.07.2005

Schento & Pagner Engineering AG Zebgheuserigese 43, 2004 Zuriet, Switzeri Phone +41, 3,245 9700 Fax 441 7 245 9779 Info@apeeg.com, http://www.speeg.com

D s

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Doc No 881 - QD 000 P40 C - F

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Page

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9. System Validation from Original equipment supplier

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zuric	y of h. Switzerland		ichweizerischer Kalibrierdienst iervice suisse d'étalonnage iervizio svizzero di taratura iwiss Calibration Service
Accredited by the Swiss Accred The Swiss Accreditation Service Multilateral Agreement for the m	e is one of the signatorie		a.: SCS 108
Client SGS (Auden)		Certificate No: E	0835V2-4d063_Jun08
CALIBRATION C	CERTIFICATE		
Object	D835V2 - SN: 4d	063	DURES LA TIM
Calibration procedure(s)	QA CAL-05.v7 Calibration proce	dure for dipole validation kits	
Calibration date:	June 06, 2008		
Condition of the calibrated item	In Tolerance	NAMES OF TAXABLE PARTY.	The second second second second
This calibration certificate docume	ents the traceability to nati	onal standards, which realize the physical units o robability are given on the following pages and ar	
This calibration certificate docum The measurements and the unce	ents the traceability to nati rtainties with confidence p sted in the closed laborator		re part of the certificate.
This calibration certificate docum The measurements and the unce All calibrations have been conduc Calibration Equipment used (M&T Primary Standards	ents the traceability to nati rtainties with confidence p ted in the closed laborator FE critical for calibration)	robability are given on the following pages and an ny facility: environment temperature (22 ± 3)°C an Cal Date (Calibrated by, Certificate No.)	re part of the certificate. nd humidity < 70%. Scheduled Calibration
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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 t (886-2) 2299-3279

No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路 134 號 f (886-2) 2298-0488

DASY4 Validation Report for Body TSL

Date/Time: 06.06.2008 14:01:1

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium: MSL900; Medium parameters used: f = 835 MHz; $\sigma = 0.99$ mho/m; $\varepsilon_r = 53.4$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY4 (High Precision Assessment)

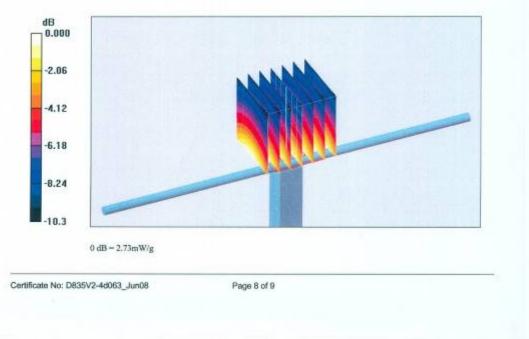
DASY4 Configuration:

SG

- Probe: ES3DV2 SN3025; ConvF(5.9, 5.9, 5.9); Calibrated: 28.04.2008
- Sensor-Surface: 3.4mm (Mechanical Surface Detection) ٠
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; ;
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, VI.8 Build 184 ٠

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

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Reference Value = 53.6 V/m; Power Drift = 0.010 dB
Peak SAR (extrapolated) = 3.53 W/kg
SAR(1 g) = 2.44 mW/g; SAR(10 g) = 1.61 mW/g
Maximum value of SAR (measured) = 2.73 mW/g
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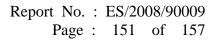
No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路 134號 t (886-2) 2299-3279 f (886-2) 2298-0488



Calibration Laborator Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurio		Hac MRA	Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service
Accredited by the Swiss Federal C The Swiss Accreditation Servic Multilateral Agreement for the r	e is one of the signatorie	s to the EA	No.: SCS 108
Client SGS (Auden)			D1900V2-5d027_Apr08
CALIBRATION	CERTIFICATE		A STREET, STRE
Object	D1900V2 - SN: 5	d027	
Celibration procedure(s)	QA CAL-05.v7 Calibration proce	dure for dipole validation kits	
Calibration date:	April 15, 2008	Set in the set of the	
		onal standards, which realize the physical units robability are given on the following pages and	
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DASY4 Validation Report for Body TSL

Date/Time: 15.04.2008 13:51:25

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d027

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1 Medium: MSL U10 BB; Medium parameters used: f = 1900 MHz; σ = 1.56 mho/m; ϵ , = 51.6; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY4 (High Precision Assessment)

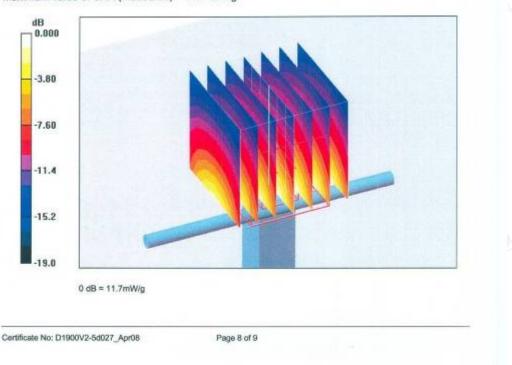
DASY4 Configuration:

SG:

- Probe: ES3DV2 SN3025; ConvF(4.5, 4.5, 4.5); Calibrated: 01.03.2008 ٠
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 14.03.2008
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 89.3 V/m; Power Drift = -0.022 dB Peak SAR (extrapolated) = 17.4 W/kg SAR(1 g) = 9.64 mW/g; SAR(10 g) = 5.07 mW/g Maximum value of SAR (measured) = 11.7 mW/g



End of 1st part of report

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