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SAR TEST REPORT

Equipment Under Test	Mobile Computer		
Model Number	XG100		
Company Name Janam Technologies LLC			
Company Address	100 Crossways Park West Suite 105 Woodbury, NY		
	11797		
Date of Receipt	2009.03.05		
Date of Test(s)	2009.03.31		
Date of Issue	2009.04.03		

Standards:

FCC OET Bulletin 65 supplement C, ANSI/IEEE C95.1, C95.3, IEEE 1528 Canada RSS102

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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Tested by : Ricky Huang **Date**

2009.04.03

Asst. Supervisor Robert Chang

Approved by : Robert Chang

Tech Manager

Date 2009.04.03

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1. General Information

1.1 Testing Laboratory

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Fax	+886-2-2298-0488	
Internet http://www.tw.sgs.com		

1.2 Details of Applicant

Name	Janam Technologies LLC	
INATTIC	Janam Technologies LLC	
Address	100 Crossways Park West Suite 105 Woodbury, NY 11797	
Telephone	631 961 1209	
Fax	516 320 8031	
Contact Person	Harry Lerner	
E-mail	harry.lerner@janam.com	
Website	http://www.janam.com/	

1.3 Description of EUT

EUT Name	Mobile Computer	
Model number	XG100	
Brand Name	Janam	
FCC ID	UTW-XG100 Production unit	
Definition		
Mode of Operation	WLAN802.11 b/g	
Duty Cycle	WLAN802.11 b/g 1	

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SC	S		Report No. : ES/2009/3 Page : 4 of	
	Modulation Mode	WLAN80	2.11 b/g	
	Modulation Mode	QPSK/	OFDM	
	Maximum RF Conducted	WLAN802.11 b	WLAN802.11 g	
	Power(Peak)	19.61dbm	16.12dbm	
	TX Frequency range	WLAN80	2.11 b/g	
	(MHz)	2412-	-2462	
	Channel Number	WLAN80	2.11 b/g	
	(ARFCN)	1-11		
		Second	solution	
	Declaration	This model XG100 changed another Keypad . In order		
		to find SAR value whether the same between first and		
		second solution, we used s	pot-check method to check	
		it. Finally, the check result, WALN 802.11 b/g was within		
		20% deviation.		
		Orignal solution		
	Max. SAR Measured	0.050W/kg (At WLAN802.11 b CH 11_ Configuration 1)		
	(10 g)	Second solution		
		0.048W/kg		
		(At WLAN8U2.11 D CF	I 11_ Configuration 1)	

1.4 Test Environment

Ambient Temperature: 22±2° C Tissue Simulating Liquid: 22±2° C

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The EUT is controlled by chip-specific software installed in EUT, and makes it transmit at max power. 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.

The test configuration tested at the low, middle and high frequency channels, and then test of set in highest power. Finally, we will test it by dividing into 2 configurations:

Configuration 1: Front side of the EUT is paralleled and contact with flat phantom. (Appendix-Fig3.)

Configuration 2: Bottom side of the EUT is paralleled and contact with flat phantom. When user hold this device, the bottom side will be the nearest end to user. (Appendix-Fig4.)

1.6 The SAR Measurement System

A photograph of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 4 professional system). A Model EX3DV3 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 p are the conductivity and mass density of the tissue-simulant.

The DASY4 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).
- 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.

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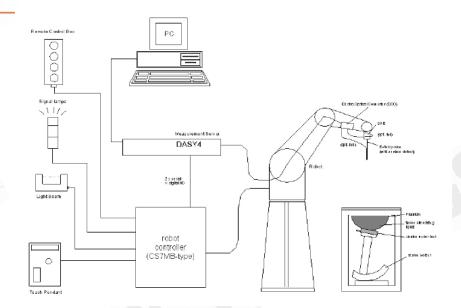


Fig.a The block diagram of SAR stsyem

- 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.
 - DASY4 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.

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EX3DV3 E-Field Probe

Frobe		
Symmetrical design with triangular core		
Built-in shielding against static charges		
PEEK enclosure material (resistant to		
organic solvents, e.g., DGBE)		
Basic Broad Band Calibration in air		
Conversion Factors (CF) for HSL2450 MHZ		
Additional CF for other liquids and		
frequencies upon request		
10 MHz to > 6 GHz, Linearity: ± 0.2 dB (30 MHz to 6 GHz)		
± 0.3 dB in HSL (rotation around probe axis)		
± 0.5 dB in tissue material (rotation normal to probe axis)		
$= 10 \mu W/g \text{ to } > 100 \text{ mW/g}$		
Linearity: ± 0.2 dB (noise: typically < 1 μW/g)		
Overall length: 330 mm (Tip: 20 mm)		
Tip diameter: 2.5 mm (Body: 12 mm)		
Typical distance from probe tip to dipole centers: 1 mm		
High precision dosimetric measurements in any exposure scenario		
(e.g., very strong gradient fields). Only probe which enables		
compliance testing for frequencies up to 6 GHz with precision of bet		
30%.		

SAM PHANTOM V4.0C

Construction	The shell corresponds to the specifications of the Specific
	Anthropomorphic Mannequin (SAM) phantom defined in IEEE
	1528-200X, CENELEC 50361 and IEC 62209.
	It enables the dosimetric evaluation of left and right hand phone
	usage as well as body mounted usage at the flat phantom region. A
	cover prevents evaporation of the liquid. Reference markings on the
	phantom allow the complete setup of all predefined phantom
	positions and measurement grids by manually teaching three points
	with the robot.

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-	Shell Thi <mark>ckness</mark>	2 ± 0.2 mm	
	Filling Volume	Approx. 25 liters	(TU
	Dimensions	Height: 251 mm;	
		Length: 1000 mm;	T T
		Width: 500 mm	7
	S		

DEVICE HOLDER

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

1.8 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 5% from the target SAR values. These tests were done at 2450 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the ambient temperature of the laboratory was in the range 22.1°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.

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It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

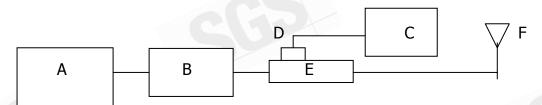


Fig.b The block diagram for SAR system verification

- 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 Hz	Target SAR Measured (1g) SAR (Pin=250mW) (1g)		Measured Date
D2450V2 S/N: 727	2450 MHz (Body)	13.2 mW/g	13.4mW/g	2009-03-31

Table 1. Results of system validation

1.9 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this body-simulant fluid were measured by using the HP Model 85070D Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with HP 8753D Network Analyzer (30 KHz-6000 MHz) 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. (Fig .2)

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F	requency	Tissue type	Measurement date/	Dielectric Para		ameters
	(MHz)		Limits	ρ	σ (S/m)	Simulated Tissue
						Temperature(° C)
2450			Measured, 2009-03-31	53	2.05	21.7
	2 4 30	Body	Recommended Limits	48.36-53.45	1.88-2.08	20-24

Table 2. Dielectric Parameters of Tissue Simulant Fluid

The composition of the brain tissue simulating liquid is:

Ingredient	2450Mhz (Body)
DGMBE	301.7 ml
Water	698.3 ml
Salt	X
Preventol D-7	X
Cellulose	X
Sugar	Χ
Total amount	1 L (1.0kg)

Table 3. Recipes for tissue simulating liquid

1.10 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

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e 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 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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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.

- (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).
- (2) 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.

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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 .4)

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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SGS 2. Summary of Results

Orignal solution measurement result

WLAN802.11 b

Configuration 1: Front side of the EUT is paralleled and contact with flat phantom.											
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid					
			Power (Peak)	1g	Temp[°C]	Temp[°C]					
VA/LANI	1	2412	19.52dbm	0.048	22.1	21.7					
WLAN 802.11 b	6	2437	19.31dbm	0.040	22.1	21.7					
002.11 b	11	2462	19.61dbm	0.050	22.1	21.7					
Configuration	on 2: Botto	m side	of the EUT is parallel	ed and contact wit	h flat phan	tom.					
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid					
			Power (Peak)	1g	Temp[°C]	Temp[°C]					
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	2412	19.52dbm	0.00883	22.1	21.7					
WLAN 802.11 b	6	2437	19.31dbm	0.00898	22.1	21.7					
002.11 0	11	2462	19.61dbm	0.00912	22.1	21.7					

WLAN802.11 g

Configuration	Configuration 1: Front side of the EUT is paralleled and contact with flat phantom.										
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid					
			Power (Peak)	1g	Temp[°C]	Temp[°C]					
\A/I A N I	1	2412	16.12dbm	0.012	22.1	21.7					
WLAN 802.11 b	6	2437	16.05dbm 0.0066 2		22.1	21.7					
002.11 b	11	2462	16.1dbm 0.012		22.1	21.7					
Configuration	on 2: Botto	m side	of the EUT is parallel	ed and contact wit	h flat phan	tom.					
Frequency	Channel	MHz	Conducted Output	Measured(W/kg)	Amb.	Liquid					
IFFO			Power (Peak)	1g	Temp[°C]	Temp[°C]					
	1	2412	16.12dbm	0.00192	22.1	21.7					
WLAN 802.11 b	6	2437	16.09dbm	0.00135	22.1	21.7					
002.11 0	11	2462	16.1dbm	0.00194	22.1	21.7					

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Second solution measurement result

WLAN802.11 b

Configuration	Configuration 1: Front side of the EUT is paralleled and contact with flat phantom.									
Frequency	Frequency Channel MHz Conducted Output Measured(W/kg)									
			Power (Peak)	1g	Temp[°C]	Temp[°C]				
WLAN 802.11 b	11	2462	19.57dbm	0.048	22.1	21.7				

WLAN802.11 g

	Configuration 1: Front side of the EUT is paralleled and contact with flat phantom.										
Frequency Channel MHz				Conducted Output	Measured(W/kg)	Amb.	Liquid				
				Power (Peak)	1g	Temp[°C]	Temp[°C]				
	WLAN 802.11 g	11	2462	16dbm	0.014	22.1	21.7				

Note:

SAR measurement results with transmitter at maximum output power.

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3. Instruments List

			T	1
Manufacturer	Device	Туре	Serial number	Date of last calibration
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	EX3DV3	3526	Aug.26.2008
Schmid & Partner Engineering AG	2450 MHz System Validation Dipole	D2450V2	727	Apr.11.2008
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	547	Jan.19.2009
Schmid & Partner Engineering AG	Software	DASY 4 V4.7 Build 80	N/A	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required
Agilent	Network Analyzer	8753D	3410A5662	Apr.16.2008
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration not required
Agilent	Dual-directional coupler	778D	50313	Aug.18.2008
Agilent	RF Signal Generator	8648D	3847M00432	May.21.2008
Agilent	Power Sensor	8481H	MY41091361	May.20.2008
R&S	Radio Communication Test	CMU200	113505	Sep.03.2008

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Date/Time: 2009/3/31 02:16:27

Configuration 1_WLAN802.11 b_CH1

DUT: XG100;

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 54$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

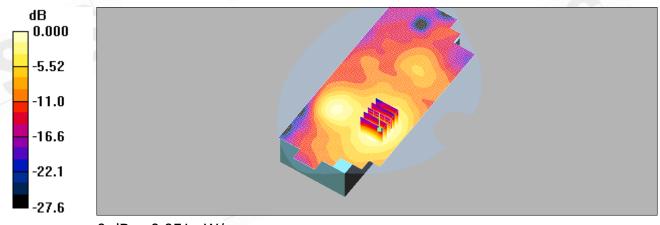
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (81x181x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.055 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 1.99 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 0.090 W/kg

SAR(1 g) = 0.048 mW/g; SAR(10 g) = 0.026 mW/gMaximum value of SAR (measured) = 0.051 mW/g



0 dB = 0.051 mW/g

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Date/Time: 2009/3/31 02:58:03

Configuration 1_WLAN802.11 b_CH6

DUT: XG100:

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2.03$ mho/m; $\varepsilon_r = 53.3$;

 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

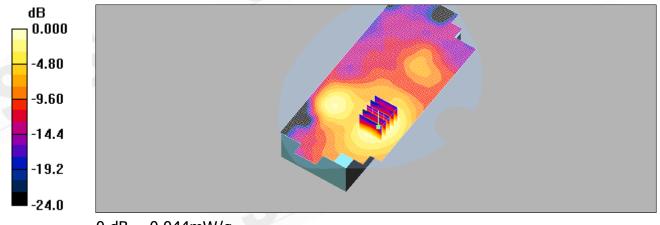
Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (81x181x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.046 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 2.03 V/m; Power Drift = -0.191 dB Peak SAR (extrapolated) = 0.077 W/kg

SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.022 mW/gMaximum value of SAR (measured) = 0.044 mW/g



0 dB = 0.044 mW/g

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Date/Time: 2009/3/31 03:36:06

Configuration 1_WLAN802.11 b_CH11

DUT: XG100;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.07$ mho/m; $\varepsilon_r = 53$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

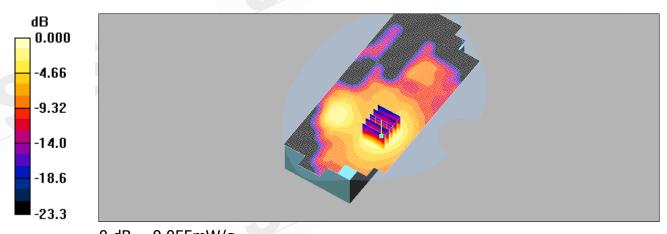
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (81x181x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.053 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 2.21 V/m; Power Drift = 0.100 dB

Peak SAR (extrapolated) = 0.094 W/kg

SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.026 mW/gMaximum value of SAR (measured) = 0.055 mW/g

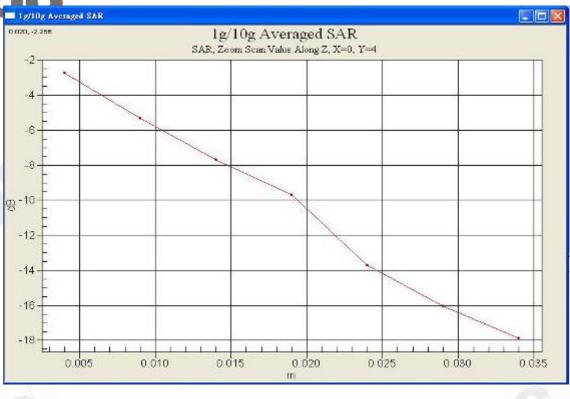


0 dB = 0.055 mW/g

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Date/Time: 2009/3/31 06:26:48

Configuration 2_WLAN802.11 b_CH1

DUT: XG100:

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 2.02$ mho/m; $\varepsilon_r = 54$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.009 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

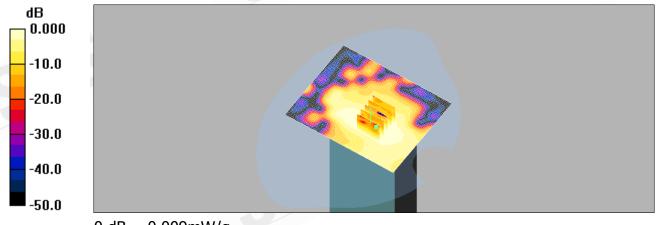
dz=5mm

Reference Value = 2.25 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 0.018 W/kg

SAR(1 g) = 0.00883 mW/g; SAR(10 g) = 0.00426 mW/g

Maximum value of SAR (measured) = 0.009 mW/g



0 dB = 0.009 mW/g

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Date/Time: 2009/3/31 07:03:54

Configuration 2_WLAN802.11 b_CH6

DUT: XG100:

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2.03$ mho/m; $\varepsilon_r = 53.3$;

 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

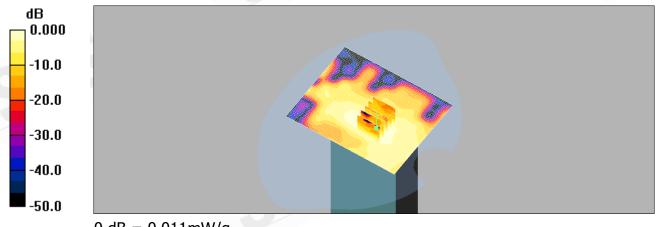
BODY/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.010 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.30 V/m; Power Drift = -0.156 dB Peak SAR (extrapolated) = 0.015 W/kg

SAR(1 g) = 0.00898 mW/g; SAR(10 g) = 0.00452 mW/g

Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.011 mW/g

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Date/Time: 2009/3/31 07:39:22

Configuration 2_WLAN802.11 b_CH11

DUT: XG100:

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.07$ mho/m; $\varepsilon_r = 53$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

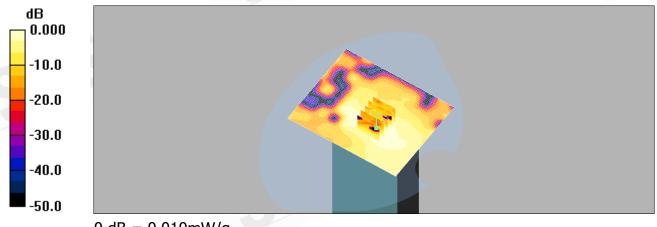
BODY/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.010 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.24 V/m; Power Drift = -0.115 dB Peak SAR (extrapolated) = 0.016 W/kg

SAR(1 g) = 0.00912 mW/g; SAR(10 g) = 0.00457 mW/g

Maximum value of SAR (measured) = 0.010 mW/g



0 dB = 0.010 mW/g

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Date/Time: 2009/3/31 04:23:27

Configuration 1_WLAN802.11 g_CH1

DUT: XG100:

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 2.02$ mho/m; $\varepsilon_r = 54$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

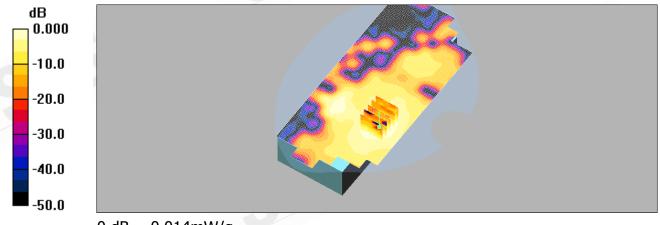
BODY/Area Scan (81x181x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.014 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.09 V/m; Power Drift = 0.149 dB Peak SAR (extrapolated) = 0.023 W/kg

SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00609 mW/g

Maximum value of SAR (measured) = 0.014 mW/g



0 dB = 0.014 mW/g

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Date/Time: 2009/3/31 05:02:30

Configuration 1_WLAN802.11 g_CH6

DUT: XG100:

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2.03$ mho/m; $\varepsilon_r = 53.3$;

 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

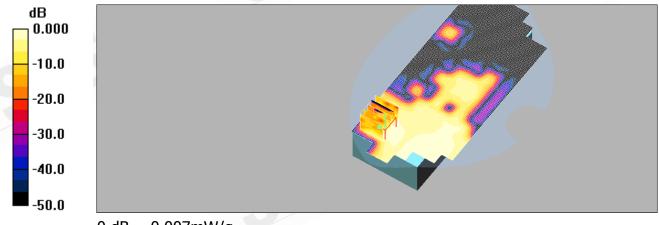
Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (81x181x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.011 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 0.890 V/m; Power Drift = -0.14 dB Peak SAR (extrapolated) = 0.011 W/kg

SAR(1 g) = 0.0066 mW/g; SAR(10 g) = 0.00321 mW/gMaximum value of SAR (measured) = 0.007 mW/g



0 dB = 0.007 mW/g

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Date/Time: 2009/3/31 05:48:44

Configuration 1_WLAN802.11 g_CH11

DUT: XG100;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.07$ mho/m; $\varepsilon_r = 53$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

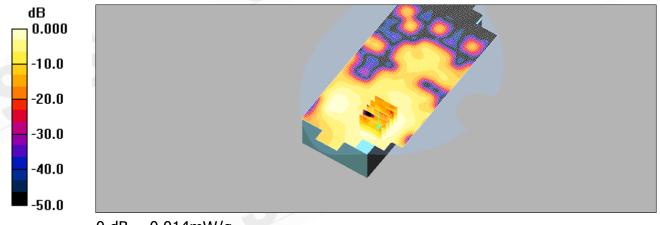
BODY/Area Scan (81x181x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.014 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 0.841 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.019 W/kg

SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00613 mW/g

Maximum value of SAR (measured) = 0.014 mW/g



0 dB = 0.014 mW/g

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Date/Time: 2009/3/31 08:16:25

Configuration 2_WLAN802.11 g_CH1

DUT: XG100:

Communication System: Wireless LAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2412 MHz; $\sigma = 2.02$ mho/m; $\varepsilon_r = 54$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

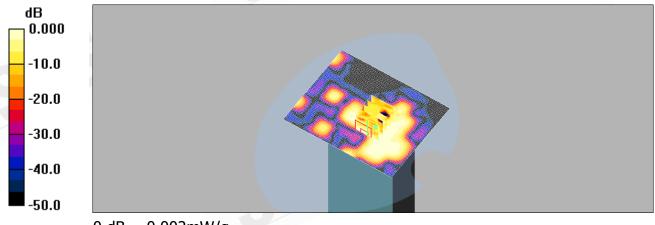
BODY/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.004 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.12 V/m; Power Drift = -0.155 dB Peak SAR (extrapolated) = 0.005 W/kg

SAR(1 g) = 0.00192 mW/g; SAR(10 g) = 0.000887 mW/g

Maximum value of SAR (measured) = 0.002 mW/g



0 dB = 0.002 mW/g

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Date/Time: 2009/3/31 08:45:20

Configuration 2_WLAN802.11 g_CH6

DUT: XG100:

Communication System: Wireless LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2437 MHz; $\sigma = 2.03$ mho/m; $\varepsilon_r = 53.3$;

 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

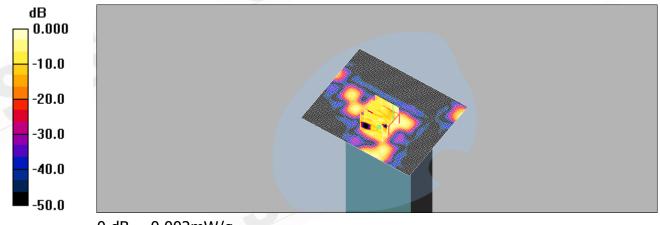
Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.006 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 0.810 V/m; Power Drift = 0.183 dB Peak SAR (extrapolated) = 0.003 W/kg

SAR(1 g) = 0.00135 mW/g; SAR(10 g) = 0.000664 mW/gMaximum value of SAR (measured) = 0.002 mW/g



0 dB = 0.002 mW/g

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Date/Time: 2009/3/31 09:27:48

Configuration 2_WLAN802.11 g_CH11

DUT: XG100;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.07$ mho/m; $\varepsilon_r = 53$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

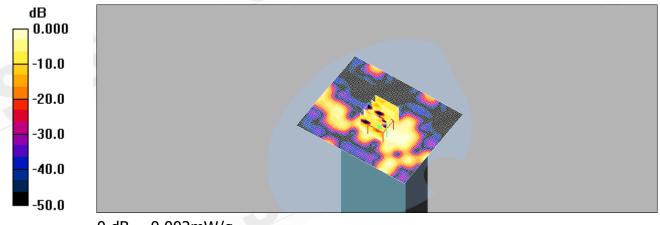
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.003 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.824 V/m; Power Drift = 0.15 dB Peak SAR (extrapolated) = 0.006 W/kg

SAR(1 g) = 0.00194 mW/g; SAR(10 g) = 0.000759 mW/gMaximum value of SAR (measured) = 0.002 mW/g



0 dB = 0.002 mW/g

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Date/Time: 2009/3/31 10:05:36

Configuration 1_WLAN802.11 b_CH11

DUT: XG100;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.07$ mho/m; $\varepsilon_r = 53$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

BODY/Area Scan (81x181x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.054 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,

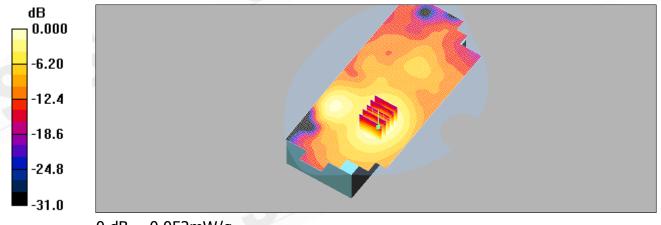
dz=5mm

Reference Value = 2.33 V/m; Power Drift = -0.156 dB

Peak SAR (extrapolated) = 0.090 W/kg

SAR(1 g) = 0.048 mW/g; SAR(10 g) = 0.026 mW/g

Maximum value of SAR (measured) = 0.052 mW/g



0 dB = 0.052 mW/g

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Date/Time: 2009/3/31 10:52:12

Configuration 1_WLAN802.11 g_CH11

DUT: XG100;

Communication System: Wireless LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 Medium parameters used: f = 2462 MHz; $\sigma = 2.07$ mho/m; $\varepsilon_r = 53$; ρ

 $= 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

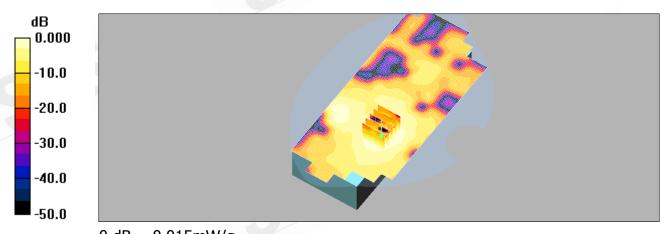
BODY/Area Scan (81x181x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.015 mW/g

BODY/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.38 V/m; Power Drift = 0.060 dB Peak SAR (extrapolated) = 0.027 W/kg

SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00733 mW/g

Maximum value of SAR (measured) = 0.015 mW/g



0 dB = 0.015 mW/g

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SAR System Performance Verification

Date/Time: 2009/3/31 01:31:45

DUT: Dipole 2450 MHz;

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: M 2450 Medium parameters used: f = 2450 MHz; $\sigma = 2.05$ mho/m; $\varepsilon_r = 53$; $\rho =$

 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV3 - SN3526; ConvF(8.18, 8.18, 8.18); Calibrated: 2008/8/26

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

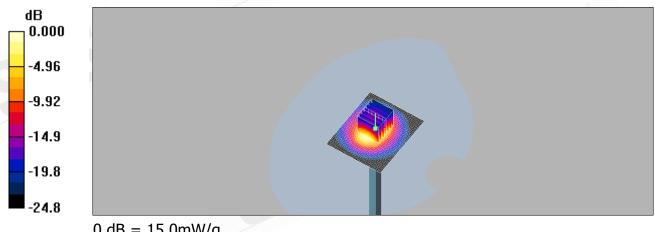
Phantom: SAM1; Type: SAM 4.0; Serial: TP:1419

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (51x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 17.3 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dv=5mm, dz=5mmReference Value = 83.3 V/m; Power Drift = -0.125 dB Peak SAR (extrapolated) = 29.7 W/kg

SAR(1 g) = 13.4 mW/g; SAR(10 g) = 5.9 mW/gMaximum value of SAR (measured) = 15.0 mW/g



0 dB = 15.0 mW/q

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AE & Probe Calibration certificate

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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S

SGS (Auden)

Certificate No: DAE4-547_Jan09

CALIBRATION CERTIFICATE DAE4 - SD 000 D04 BJ - SN: 547 Object . ' Calibration procedure(s) QA CAL-06.v12 Calibration procedure for the data acquisition electronics (DAE) Calibration date: January 19, 2009 In Tolerance Condition of the calibrated item This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Scheduled Calibration Primary Standards ID# Cal Date (Certificate No.) Sep-09 Fluke Process Calibrator Type 702 SN: 6295803 30-Sep-08 (No: 7673) SN: 0810278 30-Sep-08 (No: 7670) Sep-09 Keithley Multimeter Type 2001 Scheduled Check Secondary Standards Check Date (in house) SE UMS 006 AB 1004 06-Jun-08 (in house check) In house check: Jun-09 Calibrator Box V1.1 Function Name Technician Calibrated by: Fin Bomholt R&D Director Issued: January 20, 2009 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: DAE4-547 Jan09

Page 1 of 5

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SGS (Auden)

Certificate No: EX3-3526_Aug08

Object	EX3DV3 - SN:3	526	
Calibration procedure(s)		QA CAL-14.v3 and QA CAL-23.v3 edure for dosimetric E-field probes	
Calibration date:	August 26, 2008	3	
Condition of the calibrated item	In Tolerance		
		tional standards, which realize the physical uni probability are given on the following pages an	d are part of the certificate.
		ory facility: environment temperature (22 ± 3)°C	C and humidity < 70%.
Calibration Equipment used (M&	TE critical for calibration)		c and humidity < 70%. Scheduled Calibration
Calibration Equipment used (M&			
Calibration Equipment used (M& Primary Standards Power meter E4419B	TE critical for calibration)	Cal Date (Certificate No.)	Scheduled Calibration
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A	TE critical for calibration) ID # GB41293874	Cal Date (Certificate No.) 1-Apr-08 (No. 217-00788)	Scheduled Calibration Apr-09
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A	TE critical for calibration) ID # GB41293874 MY41495277	Cal Date (Certificate No.) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788)	Scheduled Calibration Apr-09 Apr-09 Apr-09 Jul-09
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087	Cal Date (Certificate No.) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788)	Scheduled Calibration Apr-09 Apr-09 Apr-09 Jul-09 Apr-09
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5089 (20b)	Cal Date (Certificate No.) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00865) 31-Mar-08 (No. 217-00787) 1-Jul-08 (No. 217-00866)	Scheduled Calibration Apr-09 Apr-09 Apr-09 Jul-09 Apr-09 Jul-09
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: \$5054 (3c) SN: \$5086 (20b)	Cal Date (Certificate No.) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00865) 31-Mar-08 (No. 217-00787)	Scheduled Calibration Apr-09 Apr-09 Apr-09 Jul-09 Apr-09
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3d Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5056 (20b) SN: S5129 (30b) SN: 3013	Cal Date (Certificate No.) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00865) 31-Mar-08 (No. 217-00787) 1-Jul-06 (No. 217-00866) 2-Jan-08 (No. ES3-3013_Jan08)	Scheduled Calibration Apr-09 Apr-09 Apr-09 Jul-09 Jul-09 Jan-09
Calibration Equipment used (M& Primary Standards Power meter E4119B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 660	Cal Date (Certificate No.) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00865) 31-Mar-08 (No. 217-00787) 1-Jul-08 (No. 217-00866) 2-Jan-08 (No. ES3-3013_Jan08) 3-Sep-07 (No. DAE4-660_Sep07)	Scheduled Calibration Apr-09 Apr-09 Apr-09 Jul-09 Apr-09 Jul-09 Jul-09 Jan-09 Sep-08
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 660	Cal Date (Certificate No.) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00785) 1-Jul-08 (No. 217-00787) 1-Jul-08 (No. 217-00866) 2-Jan-08 (No. ES3-3013_Jan08) 3-Sep-07 (No. DAE4-660_Sep07) Check Date (in house)	Scheduled Calibration Apr-09 Apr-09 Apr-09 Jul-09 Jul-09 Jul-09 Jan-09 Sep-08 Scheduled Check
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 660 ID # US3642U01700	Cal Date (Certificate No.) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00786) 1-Jul-08 (No. 217-00787) 1-Jul-08 (No. 217-00866) 2-Jan-08 (No. ES3-3013_Jan08) 3-Sep-07 (No. DAE4-660_Sep07) Check Date (in house)	Scheduled Calibration Apr-09 Apr-09 Apr-09 Jul-09 Jul-09 Jan-09 Sep-08 Scheduled Check In house check: Oct-09
	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: \$5054 (3c) SN: \$5086 (20b) SN: \$5129 (30b) SN: 3013 SN: 660 ID # US3642U01700 US37390585	Cal Date (Certificate No.) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Jul-08 (No. 217-00865) 31-Mar-08 (No. 217-00787) 1-Jul-08 (No. 217-00866) 2-Jan-08 (No. 213-0088) 3-Sep-07 (No. DAE4-660_Sep07) Check Date (in house) 4-Aug-99 (in house check Oct-07) 18-Oct-01 (in house check Oct-07)	Scheduled Calibration Apr-09 Apr-09 Apr-09 Jul-09 Apr-09 Jul-09 Jan-09 Sep-08 Scheduled Check In house check: Oct-09 In house check: Oct-08

Certificate No: EX3-3526_Aug08

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Glossary:

tissue simulating liquid TSL NORMx,y,z sensitivity in free space sensitivity in TSL / NORMx,y,z ConvF diode compression point DCP φ rotation around probe axis Polarization φ

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at

measurement center), i.e., ϑ = 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 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 $\vartheta = 0$ (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,v,z = NORMx,v,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,v,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: EX3-3526 Aug08

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EX3DV3 SN:3526

August 26, 2008



Probe EX3DV3

SN:3526

Manufactured: Last calibrated: March 19, 2004 August 29, 2007

Recalibrated:

August 26, 2008

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3526 Aug08

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EX3DV3 SN:3526

August 26, 2008

94 mV

DASY - Parameters of Probe: EX3DV3 SN:3526

Sensitivity in Fre	e Space ^A	Diode C	ompression ^E	
NormX	0.99 ± 10.1%	$\mu V/(V/m)^2$	DCP X	93 mV
NormY	0.81 ± 10.1%	$\mu V/(V/m)^2$	DCP Y	94 mV

 $\mu V/(V/m)^2$

DCP Z

1.0 mm

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

0.89 ± 10.1%

Please see Page 8.

NormZ

Boundary Effect

9	00 MHz	Typical SAR gradient: 5 %	per mm	
Sensor Cente	r to Phanto	om Surface Distance	2.0 mm	3.0 mm
SAR _{be} [%]	Withou	t Correction Algorithm	8.9	5.3
SAR _{be} [%]	With C	orrection Algorithm	0.8	0.4
18	10 MHz	Typical SAR gradient: 10	% per mm	
Sensor Cente	r to Phanto	om Surface Distance	2.0 mm	3.0 mm
SAR _{be} [%]	Withou	t Correction Algorithm	6.8	3.6
SAR _{be} [%]	With C	orrection Algorithm	0.5	0.2
	Sensor Cente SAR _{be} [%] SAR _{be} [%] 18 Sensor Cente SAR _{be} [%]	Sensor Center to Phants SAR _{be} [%] Withou SAR _{be} [%] With C 1810 MHz Sensor Center to Phants SAR _{be} [%] Withou	Sensor Center to Phantom Surface Distance SAR _{be} [%] Without Correction Algorithm SAR _{be} [%] With Correction Algorithm 1810 MHz Typical SAR gradient: 10 Sensor Center to Phantom Surface Distance SAR _{be} [%] Without Correction Algorithm	Sensor Center to Phantom Surface Distance SAR _{be} [%] Without Correction Algorithm SAR _{be} [%] With Correction Algorithm 1810 MHz Typical SAR gradient: 10 % per mm Sensor Center to Phantom Surface Distance SAR _{be} [%] Without Correction Algorithm 6.8

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%.

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Probe Tip to Sensor Center

Certificate No: EX3-3526 Aug08

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A The uncertainties of NormX,Y,Z do not affect the E2-field uncertainty inside TSL (see Page 8).

^B Numerical linearization parameter: uncertainty not required.



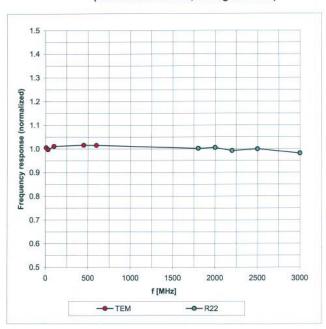
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EX3DV3 SN:3526

August 26, 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: EX3-3526 Aug08

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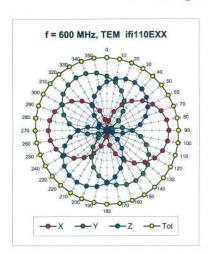


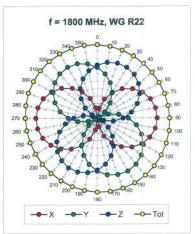
Page: 39 of 52

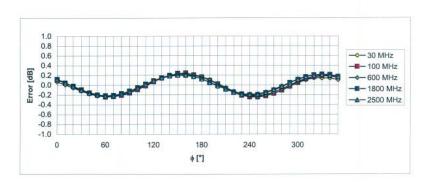
EX3DV3 SN:3526

August 26, 2008

Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$







Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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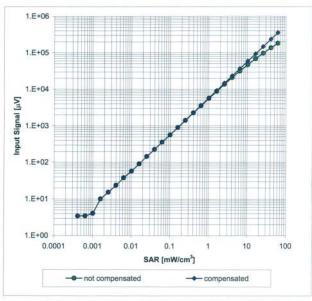
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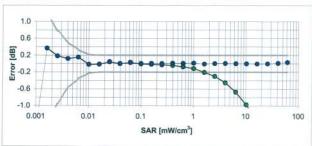
EX3DV3 SN:3526

August 26, 2008

Dynamic Range f(SAR_{head})

(Waveguide R22, f = 1800 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: EX3-3526_Aug08

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EX3DV3 SN:3526

August 26, 2008

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%	0.54	0.76	10.93	± 11.0% (k=2)
1810	±50/±100	Head	40.0 ± 5%	1.40 ± 5%	0.52	0.68	9.46	± 11.0% (k=2)
1950	± 50 / ± 100	Head	40.0 ± 5%	$1.40 \pm 5\%$	0.58	0.61	9.15	± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	$1.80 \pm 5\%$	0.42	0.74	8.49	± 11.0% (k=2)
2600	±50/±100	Head	$39.0 \pm 5\%$	$1.96 \pm 5\%$	0.42	0.75	8.53	± 11.0% (k=2)
3500	± 50 / ± 100	Head	$37.9 \pm 5\%$	$2.91 \pm 5\%$	0.30	1.20	8.15	± 13.1% (k=2)
5200	± 50 / ± 100	Head	36.0 ± 5%	4.66 ± 5%	0.40	1.65	5.68	± 13.1% (k=2)
5500	± 50 / ± 100	Head	35.6 ± 5%	4.96 ± 5%	0.40	1.65	5.01	± 13.1% (k=2)
5800	± 50 / ± 100	Head	35.3 ± 5%	5.27 ± 5%	0.40	1.65	4.90	± 13.1% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.66	0.68	10.87	± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.50	0.74	9.28	± 11.0% (k=2)
1950	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.45	0.78	9.17	± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	$1.95 \pm 5\%$	0.44	0.80	8.18	± 11.0% (k=2)
2600	± 50 / ± 100	Body	52.5 ± 5%	2.16 ± 5%	0.47	0.76	8.14	± 11.0% (k=2)
3500	± 50 / ± 100	Body	51.3 ± 5%	3.31 ± 5%	0.30	1.20	7.36	± 13.1% (k=2)
5200	± 50 / ± 100	Body	49.0 ± 5%	5.30 ± 5%	0.40	1.70	4.89	± 13.1% (k=2)
5500	± 50 / ± 100	Body	48.6 ± 5%	5.65 ± 5%	0.40	1.70	4.39	± 13.1% (k=2)
5800	± 50 / ± 100	Body	48.2 ± 5%	6.00 ± 5%	0.40	1.70	4.44	± 13.1% (k=2)



Certificate No: EX3-3526_Aug08

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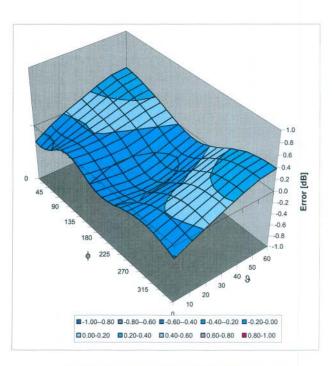
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EX3DV3 SN:3526

August 26, 2008

Deviation from Isotropy in HSL

Error (φ, θ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

Certificate No: EX3-3526_Aug08

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DASY4 Uncertainty Budget According to IEEE P1528 [1]

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)	$\begin{pmatrix} v_i \\ v_{eff} \end{pmatrix}$
Measurement System								
Probe Calibration	±4.8 %	N	1	1	1	±4.8%	±4.8 %	∞
Axial Isotropy	±4.7 %	R	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9 %	∞
Hemispherical Isotropy	±9.6 %	R	$\sqrt{3}$	0.7	0.7	±3.9 %	±3.9 %	∞
Boundary Effects	±1.0 %	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Linearity	±4.7 %	R	$\sqrt{3}$	1	1	±2.7%	±2.7 %	∞
System Detection Limits	±1.0 %	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Readout Electronics	±1.0 %	N	1	1	1	±1.0%	±1.0%	∞
Response Time	±0.8 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %	∞
Integration Time	±2.6 %	R	$\sqrt{3}$	1	1	±1.5%	±1.5 %	∞
RF Ambient Conditions	±3.0 %	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.4%	R	$\sqrt{3}$	1	1	±0.2%	±0.2 %	∞
Probe Positioning	±2.9 %	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Max. SAR Eval.	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Test Sample Related			100000					
Device Positioning	±2.9 %	N	1	1	1	±2.9%	±2.9 %	875
Device Holder	±3.6 %	N	1	1	1	±3.6%	±3.6 %	5
Power Drift	±5.0 %	R	$\sqrt{3}$	1	1	±2.9%	±2.9 %	∞
Phantom and Setup								
Phantom Uncertainty	±4.0 %	R	$\sqrt{3}$	1	1	±2.3%	±2.3 %	∞
Liquid Conductivity (target)	±5.0 %	R	$\sqrt{3}$	0.64	0.43	±1.8%	±1.2 %	∞
Liquid Conductivity (meas.)	±2.5 %	N	1	0.64	0.43	±1.6%	±1.1 %	∞
Liquid Permittivity (target)	±5.0 %	R	$\sqrt{3}$	0.6	0.49	±1.7%	±1.4 %	∞
Liquid Permittivity (meas.)	±2.5 %	N	1	0.6	0.49	±1.5%	±1.2 %	∞
Combined Std. Uncertainty						±10.3 %	±10.0 %	331
Expanded STD Uncertain	ty					$\pm 20.6 \%$	$\pm 20.1 \%$	

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8. Phantom Description

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

Item	SAM Twin Phantom V4.0	
Type No	QD 000 P40 C	
Series No	TP-1150 and higher	
Manufacturer	SPEAG Zeughausstrasse 43 CH-8004 Zürich Switzerland	

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

- 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.

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].

07.07.2005

nto & Paymer Engineering AQ Theusantees 43, 8004 Zurief , Switzerland to 341, 245 9700 Feb 46 17 245 9779 w.speeg.com

Doc No 881 - QD 000 P40 C - F

Signature / Stamp

1(1)

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System Validation from Original equipment supplier

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura

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 Accreditation No.: SCS 108

Certificate No: D2450V2-727 Apr08

Object	D2450V2 - SN: 7	27	
Calibration procedure(s)	QA CAL-05.v7		
Januarius protecturings)	THE RESERVE OF THE PARTY OF THE	dure for dipole validation kits	
Calibration date:	April 11, 2008		
Condition of the calibrated item	In Tolerance		
This calibration certificate docum	nents the traceability to nati	ional standards, which realize the physical u	units of measurements (SI).
The measurements and the unco	ertainties with confidence p	robability are given on the following pages a	and are part of the certificate.
All calibrations have been condu	icted in the closed laborator	ry facility: environment temperature (22 \pm 3)	°C and humidity < 70%
		ry facility; environment temperature (22 \pm 3)	°C and humidity < 70%.
Calibration Equipment used (M&		ry facility: environment temperature (22 ± 3) Cal Date (Certificate No.)	PC and humidity < 70%. Scheduled Calibration
Calibration Equipment used (M&	TE critical for calibration)		Open Chrody, who trade #4 percent of 6 per
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A	TE critical for calibration)	Cal Date (Certificate No.)	Scheduled Calibration
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A	TE critical for calibration) ID # G837480704	Cal Date (Certificate No.) 04-Oct-07 (No. 217-00738)	Scheduled Calibration Oct-08
Calibration Equipment used (M& Primary Standards Power moter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference Probe ES3DV2	TE critical for calibration) ID # 0837480704 US37292783	Cal Date (Certificate No.) 04-Oct-07 (No. 217-00736) 04-Oct-07 (No. 217-00736)	Scheduled Calibration Oct-08 Oct-08
Calibration Equipment used (M8 Primary Standards Power motor EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference Probe ES3DV2	TE critical for calibration) ID # G837480704 US37292783 SN: 5086 (20g)	Cal Date (Certificate No.) 04-Oct-07 (No. 217-00738) 04-Oct-07 (No. 217-00736) 07-Aug-07 (No. 217-00718)	Scheduled Galibration Oct-08 Oct-08 Aug-08
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4	TE critical for calibration) ID 6 G837480704 US37292783 SN: 5086 (20g) SN: 9025	Cal Date (Certificate No.) 04-Oct-07 (No. 217-00738) 04-Oct-07 (No. 217-00736) 07-Aug-07 (No. 217-00718) 01-Mar-06 (No. ES3-3025_Mar08)	Scheduled Calibration Oct-08 Oct-08 Aug-08 Mar-09
Calibration Equipment used (M& Primary Standards Power motor EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards	TE critical for calibration) ID # GB37480704 U537292783 SN: 5086 (20g) SN: 9025 SN: 901	Cal Date (Certificate No.) 04-Oct-07 (No. 217-00736) 04-Oct-07 (No. 217-00736) 07-Aug-07 (No. 217-00718) 01-Mar-06 (No. ES3-3025_Mar08) 14-Mar-06 (No. DAE4-601_Mar08)	Scheduled Calibration Oct-08 Oct-08 Aug-08 Mar-09 Mar-09
Calibration Equipment used (M& Primary Standards Power motor EPM-442A Power sensor HP 8481A Reference 20 dB Amenuator Reference Probe ES3DV2 DAE4 Secondary Standards Power sensor HP 8481A	TE critical for calibration) ID # G837480704 U537292783 SN: 5086 (20g) SN: 9025 SN: 601	Cal Date (Certificate No.) 04-Oct-07 (No. 217-00736) 04-Oct-07 (No. 217-00736) 07-Aug-07 (No. 217-00718) 01-Alar-06 (No. ES3-3025_Mar08) 14-Mar-06 (No. DAE4-601_Mar08) Check Date (in house)	Scheduled Calibration Oct-08 Oct-08 Aug-08 Mar-09 Mar-09 Scheduled Check
All calibrations have been condu- Calibration Equipment used (M8. Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Alternustor Reference Probe ES3DV2 DAE4 Secondary Standards Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer HP 8753E	TE critical for calibration) ID # GB37480704 US37292783 SN: 5086 (20g) SN: 3025 SN: 901 ID # MY41092317	Cal Date (Certificate No.) 04-Oct-07 (No. 217-00738) 04-Oct-07 (No. 217-00736) 07-Aug-07 (No. 217-00718) 01-Alar-06 (No. ES3-3025_Mar08) 14-Mar-08 (No. DAE4-601_Mar08) Check Date (in house)	Scheduled Galibration Oct-08 Oct-08 Aug-08 Mar-09 Mar-09 Scheduled Check In house check: Oct-09
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards Power sensor HP 8481A RF generator R&S SMT-08	TE critical for calibration) ID # GB37480704 US37292783 SN: 5086 (20g) SN: 3025 SN: 901 ID # MY41092317 100005 US37390585 \$4208	Cal Date (Certificate No.) 04-Oct-07 (No. 217-00738) 04-Oct-07 (No. 217-00736) 07-Aug-07 (No. 217-00718) 01-Alar-08 (No. ES3-3025_Mar08) 14-Mar-08 (No. DAE4-601_Mar08) Check Date (in house) 18-Oct-02 (in house check Oct-07) 4-Aug-99 (in house check Oct-07) 18-Oct-01 (in house check Oct-07)	Scheduled Galibration Oct-08 Oct-08 Aug-08 Mar-09 Mar-09 Scheduled Check In house check: Oct-09 In house check: Oct-09
Calibration Equipment used (M& Primary Standards Power motor EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards Power sensor HP 8481A RF generator R&S SMT-08 Network Analyzer HP 8753E	TE critical for calibration) ID # G837480704 U537292783 SN: 5086 (20g) SN: 3025 SN: 801 ID # MY41092317 100005 U537390585 \$4208	Cal Date (Certificate No.) 04-Oct-07 (No. 217-00738) 04-Oct-07 (No. 217-00738) 07-Aug-07 (No. 217-00718) 01-Mar-08 (No. ES3-3025_Mar08) 14-Mar-08 (No. DAE4-601_Mar08) Check Date (in house) 18-Oct-02 (in house check Oct-07) 4-Aug-98 (in house check Oct-07) 18-Oct-01 (in house check Oct-07)	Scheduled Calibration Oct-08 Oct-08 Aug-08 Mar-09 Mar-09 Scheduled Check In house check: Oct-09 In house check: Oct-09
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards Power sensor HP 8481A RF generator R&S SMT-08	TE critical for calibration) ID # GB37480704 US37292783 SN: 5086 (20g) SN: 3025 SN: 901 ID # MY41092317 100005 US37390585 \$4208	Cal Date (Certificate No.) 04-Oct-07 (No. 217-00738) 04-Oct-07 (No. 217-00736) 07-Aug-07 (No. 217-00718) 01-Alar-08 (No. ES3-3025_Mar08) 14-Mar-08 (No. DAE4-601_Mar08) Check Date (in house) 18-Oct-02 (in house check Oct-07) 4-Aug-99 (in house check Oct-07) 18-Oct-01 (in house check Oct-07)	Scheduled Galibration Oct-08 Oct-08 Aug-08 Mar-09 Mar-09 Scheduled Check In house check: Oct-09 In house check: Oct-09

Certificate No: D2450V2-727_Apr08

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DASY4 Validation Report for Body TSL

Date/Time: 11.04,2008 15:23:03

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN727

Communication System: CW-2450; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL U10;

Medium parameters used: f = 2450 MHz; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ES3DV2 - SN3025; ConvF(4.07, 4.07, 4.07); Calibrated: 01.03.2008

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

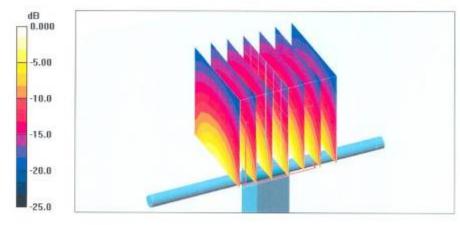
Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 93.5 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 26.5 W/kg

SAR(1 g) = 13.2 mW/g; SAR(10 g) = 6.15 mW/g

Maximum value of SAR (measured) = 16.5 mW/g



0 dB = 16.5 mW/e

t (886-2) 2299-3279

Certificate No: D2450V2-727_Apr08

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End of 1st part of report

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