

SAR TEST REPORT

Equipment Under Test	Notebook Computer
Model Number of Host	MARIO
Module Model No.	AR5BHB92
Company Name	Inventec Corporation
Company Address	66 Hou- Kang Street Shih-Lin District, Taipei 11170, Taiwan
Date of Receipt	2010.10.25
Date of Test(s)	2010.11.05, 11.07 ~ 2010.11.27, 11.28
Date of Issue	2010.12.02

Standards:

FCC OET 65 supplement C, (KDB 616217D01)
IEEE /ANSI 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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Tested by : Antony Wu
Engineer

Date : 2010.12.02

Approved by : Kelly Tsai
Supervisor

Date : 2010.12.02

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Version

Version No.	Date	Description
1.0	Nov. 09, 2010	Initial issue of report
1.1	Nov. 18, 2010	1 st modification
1.2	Nov. 22, 2010	2 nd modification
1.3	Dec. 01, 2010	3 rd modification
1.4	Dec. 02, 2010	4 rd modification

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1. General Information

1.1 Testing Laboratory

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Taipei county, Taiwan, R.O.C.	
Telephone	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com

1.2 Details of Applicant

Company Name	Inventec Corporation
Company Address	66 Hou- Kang Street Shih-Lin District, Taipei 11170, Taiwan
Telephone	02-28810721 ext:27153
Fax	02-28829941
Contact Person	Joe Huang
E-mail	Huang.JoeYT@inventec.com

1.3 Description of EUT

EUT Name	Notebook Computer
Model Number of Host	MARIO
Module Model No.	AR5BHB92
FCC ID	PPD-AR5BHB92
Definition	Production unit
Mode of Operation	WLAN 802.11 a/b/g/n (20M & 40M) band

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Duty Cycle	WLAN 802.11 a/b/g/n(20M & 40M)		
	1		
TX Frequency range (MHz)	WLAN802.11 b/g	WLAN802.11 n (20M)	WLAN802.11n (40M)
	2412-2462	2412-2462	2422-2452
	WLAN 802.11a	WLAN802.11n (20M) 5G	WLAN802.11n (40M) 5G
	5180-5825	5180-5825	5190-5795
Channel Number (ARFCN)	WLAN802.11 b/g	WLAN802.11 n (20M)	WLAN802.11n (40M)
	1-11	1-11	3-9
	WLAN 802.11a	WLAN802.11n (20M) 5G	WLAN802.11n (40M) 5G
	36-165	36-165	38-159
Max. SAR Measured (1g)	WLAN802.11a		
	0.165W/kg (WLAN802.11a_WLAN AUX Antenna _ CH100)		
	WLAN802.11b		
	0.049W/kg (WLAN802.11b_WLAN AUX Antenna _ CH11)		
	WLAN802.11g		
	0.032W/kg (WLAN802.11g _ WLAN MAIN Antenna _ CH11)		

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Max. SAR Measured (1g)	WLAN802.11n (20M)
	0.032W/kg (WLAN802.11n(20M)_ WLAN MAIN Antenna _ CH11)
	WLAN802.11n (40M)
	0.034W/kg (WLAN802.11n(40M) _ WLAN MAIN Antenna _ CH9)
	WLAN802.11n (20M)5G
	0.161W/kg (WLAN802.11n(20M) _ WLAN AUX Antenna _ CH100)
	WLAN802.11n (40M)5G
	0.177W/kg (WLAN802.11n(40M) _ WLAN AUX Antenna _ CH102)

Conducted Power

EUT Mode	Main Antenna				AUX Antenna			
	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11b	2412	1	22.46	17.52	2412	1	22.03	17.46
	2437	6	21.59	16.77	2437	6	21.82	16.94
	2462	11	22.02	17.81	2462	11	21.85	17.61

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	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11g	2412	1	21.65	16.05	2412	1	20.21	15.12
	2437	6	26.24	20.97	2437	6	26.38	21.06
	2462	11	20.83	15.73	2462	11	21.08	15.83

	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 20M	2412	1	20.44	15.76	2412	1	19.58	15.27
	2437	6	26.32	21.77	2437	6	26.36	21.83
	2462	11	18.27	14.01	2462	11	18.51	14.09

	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 40M	2422	3	17.65	12.29	2422	3	17.54	12.08
	2437	6	21.38	16.08	2437	6	22.09	16.72
	2452	9	17.60	12.53	2452	9	17.77	12.58

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	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 20M(5.2G)	5180	36	13.86	10.27	5180	36	13.72	10.24
	5200	40	13.51	10.18	5200	40	13.61	10.29
	5240	48	13.39	10.06	5240	48	12.76	9.95

	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 20M(5.3G)	5260	52	17.68	12.54	5260	52	17.09	11.88
	5300	60	18.51	13.24	5300	60	18.35	13.21
	5320	64	14.92	9.61	5320	64	16.01	10.76

	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 20M(5.5G)	5500	100	15.81	10.78	5500	100	17.15	11.81
	5600	120	18.96	13.47	5600	120	18.68	13.21
	5700	140	17.72	12.39	5700	140	18.71	13.26

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	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 20M(5.8G)	5745	149	26.08	19.54	5745	149	25.91	19.57
	5785	157	25.71	19.21	5785	157	25.94	19.41
	5825	165	25.74	18.87	5825	165	26.01	19.22

	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 40M(5.2G)	5190	38	12.94	9.67	5190	38	12.68	9.73
	5230	46	12.82	9.48	5230	46	12.81	9.51

	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 40M(5.3G)	5270	54	17.96	12.77	5270	54	18.65	13.11
	5310	62	12.43	8.86	5310	62	13.48	8.97

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	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 40M(5.5G)	5510	102	13.16	8.05	5510	102	14.28	9.1
	5590	118	20.21	14.65	5590	118	20.92	15.36
	5670	134	17.83	12.45	5670	134	18.95	14.42

	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11n 40M(5.8G)	5755	151	26.58	19.71	5755	151	26.78	20.03
	5795	159	26.02	19.27	5795	159	26.61	19.91

	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11a (5.2G)	5180	36	12.02	7.28	5180	36	12.09	7.32
	5200	40	12.17	7.52	5200	40	11.54	7.11
	5240	48	11.58	7.07	5240	48	11.24	7.02

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	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11a (5.3G)	5260	52	17.04	12.02	5260	52	17.59	12.26
	5300	60	16.23	11.06	5300	60	16.92	11.95
	5320	64	16.18	10.91	5320	64	16.57	11.27

	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11a (5.5G)	5500	100	15.59	10.28	5500	100	16.57	11.34
	5600	120	17.53	12.29	5600	120	18.27	12.89
	5700	140	15.86	10.45	5700	140	17.39	12.06

	Main Antenna				AUX Antenna			
EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WLAN802.11a (5.8G)	5745	149	25.56	19.35	5745	149	25.70	19.51
	5785	157	25.69	19.09	5785	157	25.77	19.30
	5825	165	25.71	18.97	5825	165	25.98	19.08

1.4 Test Environment

Ambient Temperature : $22 \pm 2^{\circ} \text{C}$

Tissue Simulating Liquid: $22 \pm 2^{\circ} \text{C}$

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1.5 Operation description

Use chipset specific software to control the EUT, and makes it transmit in maximum 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.

We will test it with 1 Position:

Lap-held mode. (WLAN/Main & WLAN/AUX –to-user separation distance is **143mm**)
(Appendix-Fig.4)

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 5 professional system). A Model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

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).
- 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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1.7 System Components

EX3DV4 E-Field Probe

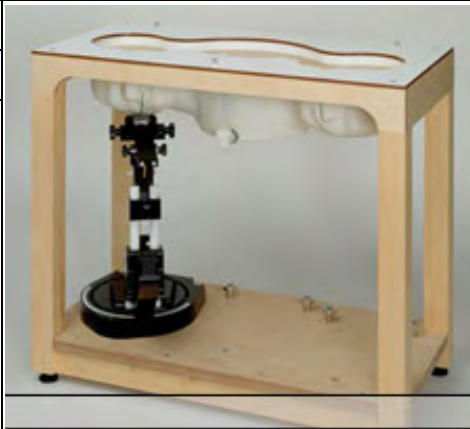
Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL2450/5200/5500/5800 MHZ Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz, Linearity: ± 0.2 dB (30 MHz to 6 GHz)	
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: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	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	
Application	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 better 30%.	

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SAM PHANTOM V4.0C

Construction	<p>The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-200X, CENELEC 50361 and IEC 62209.</p> <p>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.</p>	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Height: 850 mm; Length: 1000 mm; Width: 500 mm	

DEVICE HOLDER

Construction	<p>The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.</p>	 <p>Device Holder</p>
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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 $\pm 5\%$ from the target SAR values. These tests were done at 2450/5200/5500/5800 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. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

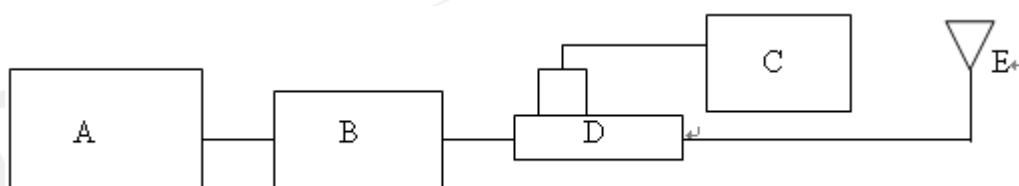


Fig.b The block diagram of system verification

- A. Agilent Model 8648D Signal Generator
- B. Mini circuits Model ZHL-42 Amplifier
- C. Agilent Model U2001B Power Sensor
- D. Agilent Model 777D Dual directional coupling
- E. Reference dipole antenna



Photograph of the dipole Antenna

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Validation Kit	Frequency Hz	Target SAR (1g) (Pin=250mW)	Measured SAR (1g)	Measured Date
D2450V2 S/N: 727	2450 MHz (Body)	13.4 m W/g	13.7 mW/g	2010-11-05
D5GV2 S/N: 1023	5800 MHz (Body)	7.37 m W/g	7.04 mW/g	2010-11-07
D5GV2 S/N: 1023	5200 MHz (Body)	8.02 m W/g	8.07 mW/g	2010-11-27
D5GV2 S/N: 1023	5500 MHz (Body)	8.49 m W/g	8.46 mW/g	2010-11-28

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 Agilent 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 $15\text{cm} \pm 5\text{mm}$ during all tests. (Fig .2)

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Frequency (MHz)	Tissue type	Measurement date/ Limits	Dielectric Parameters		
			ρ	σ (S/m)	Simulated Tissue Temperature(° C)
2450	Body	Measured, 2010.11.05	52.5	1.98	21.7
		Recommended Limits	51.49-56.91	1.91-2.11	20-24
5800	Body	Measured, 2010.11.07	46.5	6.19	21.7
		Recommended Limits	43.80-48.41	5.95-6.57	20-24
5200	Body	Measured, 2010.11.27	48.6	5.3	21.7
		Recommended Limits	45.13-49.88	5.24-5.80	20-24
5500	Body	Measured, 2010.11.28	47.8	5.76	21.7
		Recommended Limits	44.46-49.14	5.60-6.18	20-24

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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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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 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.

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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 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.

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).
- (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.
- (3) 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 .3 RF exposure limits

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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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2. Summary of Results

WLAN802.11 b_ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450MHz	1	2412	17.52dBm	0.037	22.1	21.7
	6	2437	16.77dBm	0.038	22.1	21.7
	11	2462	17.81dBm	0.041	22.1	21.7

WLAN802.11 b_ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450MHz	1	2412	17.46dBm	0.039	22.1	21.7
	6	2437	16.94dBm	0.036	22.1	21.7
	11	2462	17.61dBm	0.049	22.1	21.7

WLAN802.11 g _WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
2450MHz	1	2412	16.05dBm	0.028	22.1	21.7
	6	2437	20.97dBm	0.031	22.1	21.7
	11	2462	15.73dBm	0.032	22.1	21.7

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WLAN802.11 g _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	1	2412	15.12dBm	0.015	22.1	21.7
	6	2437	21.06dBm	0.00778	22.1	21.7
	11	2462	15.83dBm	0.00923	22.1	21.7

WLAN802.11 n (20M) _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	1	2412	15.76dBm	0.028	22.1	21.7
	6	2437	21.77dBm	0.030	22.1	21.7
	11	2462	14.01dBm	0.032	22.1	21.7

WLAN802.11 n (20M) _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	1	2412	15.27dBm	0.00769	22.1	21.7
	6	2437	21.83dBm	0.00677	22.1	21.7
	11	2462	14.09dBm	0.0076	22.1	21.7

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WLAN802.11 n (40M) _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	3	2422	12.29dBm	0.029	22.1	21.7
	6	2437	16.08dBm	0.031	22.1	21.7
	9	2452	12.53dBm	0.034	22.1	21.7

WLAN802.11 n (40M) _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
2450MHz	3	2422	12.08dBm	0.019	22.1	21.7
	6	2437	16.72dBm	0.021	22.1	21.7
	9	2452	12.58dBm	0.025	22.1	21.7

WLAN802.11 n (20M) 5.2G _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	36	5180	10.27dBm	0.067	22.1	21.7
	40	5200	10.18dBm	0.061	22.1	21.7
	48	5240	10.06dBm	0.058	22.1	21.7

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WLAN802.11 n (20M) 5.2G _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	36	5180	10.24dBm	0.046	22.1	21.7
	40	5200	10.29dBm	0.053	22.1	21.7
	48	5240	9.95 dBm	0.063	22.1	21.7

WLAN802.11 n (20M) 5.3G _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5300MHz	52	5260	12.54dBm	0.054	22.1	21.7
	60	5300	13.24dBm	0.065	22.1	21.7
	64	5320	9.61 dBm	0.070	22.1	21.7

WLAN802.11 n (20M) 5.3G _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5300MHz	52	5260	11.88dBm	0.068	22.1	21.7
	60	5300	13.21dBm	0.083	22.1	21.7
	64	5320	10.76dBm	0.103	22.1	21.7

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WLAN802.11 n (20M) 5.5G _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	100	5500	10.78dBm	0.086	22.1	21.7
	120	5600	13.47dBm	0.067	22.1	21.7
	140	5700	12.39dBm	0.026	22.1	21.7

WLAN802.11 n (20M) 5.5G _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	100	5500	11.81dBm	0.161	22.1	21.7
	120	5600	13.21dBm	0.134	22.1	21.7
	140	5700	13.26dBm	0.113	22.1	21.7

WLAN802.11 n (20M) 5.8G _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	149	5745	19.54dBm	0.057	22.1	21.7
	157	5785	19.21dBm	0.050	22.1	21.7
	165	5825	18.87dBm	0.041	22.1	21.7

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WLAN802.11 n (20M) 5.8G _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	149	5745	19.57dBm	0.028	22.1	21.7
	157	5785	19.41dBm	0.038	22.1	21.7
	165	5825	19.22dBm	0.015	22.1	21.7

WLAN802.11 n(40M) 5.2G _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	38	5190	9.67 dBm	0.056	22.1	21.7
	46	5230	9.48 dBm	0.040	22.1	21.7

WLAN802.11 n(40M) 5.2G _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	38	5190	9.73 dBm	0.064	22.1	21.7
	46	5230	9.51 dBm	0.066	22.1	21.7

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WLAN802.11 n(40M) 5.3G _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5300MHz	54	5270	12.77dBm	0.054	22.1	21.7
	62	5310	8.86 dBm	0.067	22.1	21.7

WLAN802.11 n(40M) 5.3G _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5300MHz	54	5270	13.11dBm	0.088	22.1	21.7
	62	5310	8.97 dBm	0.115	22.1	21.7

WLAN802.11 n (40M) 5.5G _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[° C]	Liquid Temp[° C]
5500MHz	102	5510	8.05 dBm	0.078	22.1	21.7
	118	5590	14.65dBm	0.057	22.1	21.7
	134	5670	12.45dBm	0.047	22.1	21.7

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WLAN802.11 n (40M) 5.5G _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	102	5510	9.1 dBm	0.177	22.1	21.7
	118	5590	15.36dBm	0.163	22.1	21.7
	134	5670	14.42dBm	0.152	22.1	21.7

WLAN802.11 n(40M) 5.8G _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	151	5755	19.71dBm	0.053	22.1	21.7
	159	5795	19.27dBm	0.042	22.1	21.7

WLAN802.11 n(40M) 5.8G _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	151	5755	20.03dBm	0.026	22.1	21.7
	159	5795	19.91dBm	0.041	22.1	21.7

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WLAN802.11 a 5.2G _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	36	5180	7.28 dBm	0.075	22.1	21.7
	40	5200	7.52 dBm	0.067	22.1	21.7
	48	5240	7.07 dBm	0.068	22.1	21.7

WLAN802.11 a 5.2G _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5200MHz	36	5180	7.32 dBm	0.059	22.1	21.7
	40	5200	7.11 dBm	0.052	22.1	21.7
	48	5240	7.02 dBm	0.061	22.1	21.7

WLAN802.11 a 5.3G _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5300MHz	52	5260	12.02dBm	0.018	22.1	21.7
	60	5300	11.06dBm	0.053	22.1	21.7
	64	5320	10.91dBm	0.065	22.1	21.7

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WLAN802.11 a 5.3G _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5300MHz	52	5260	12.26dBm	0.082	22.1	21.7
	60	5300	11.95dBm	0.104	22.1	21.7
	64	5320	11.27dBm	0.1	22.1	21.7

WLAN802.11 a 5.5G _ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	100	5500	10.28dBm	0.052	22.1	21.7
	120	5600	12.29dBm	0.039	22.1	21.7
	140	5700	10.45dBm	0.034	22.1	21.7

WLAN802.11 a 5.5G _ WLAN AUX Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5500MHz	100	5500	11.34dBm	0.165	22.1	21.7
	120	5600	12.89dBm	0.138	22.1	21.7
	140	5700	12.06dBm	0.114	22.1	21.7

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WLAN802.11 a 5.8G_ WLAN MAIN Antenna

Lap-held mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	149	5745	19.35dBm	0.060	22.1	21.7
	157	5785	19.09dBm	0.052	22.1	21.7
	165	5825	18.97dBm	0.052	22.1	21.7

WLAN802.11 a 5.8G_ WLAN AUX Antenna

Lap-held Secondary landscape mode						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
5800MHz	149	5745	19.51dBm	0.023	22.1	21.7
	157	5785	19.30dBm	0.035	22.1	21.7
	165	5825	19.08dBm	0.017	22.1	21.7

Note:

The SAR measurement results with transmitter at maximum output power.

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3. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	EX3DV4	3703	Dec.30.2009
Schmid & Partner Engineering AG	2450/5200/5500/5800 MHz System Validation Dipole	D2450V2	727	Apr.29.2010
		D5GHzV2	1023	Jun.21.2010
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	856	May.20.2010
Schmid & Partner Engineering AG	Software	DASY 5 V5.0 Build125	N/A	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required
HP	Network Analyzer	8753D	3410A05547	Mar.30.2010
HP	Dielectric Probe Kit	85070D	US01440168	Calibration not required
Agilent	Dual-directional coupler	777D	50114	Aug.25.2010
Agilent	RF Signal Generator	8648D	3847M00432	Jun.04.2010
Agilent	Power Sensor	U2001B	MY48100169	Apr.30.2010

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4. Measurements

Date: 2010/11/05

Body_WLAN802.11b_Main Antenna_CH1

DUT: MARIO

Communication System: WLAN802.11 b & g & n(20M); Frequency: 2412 MHz;

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.042 mW/g

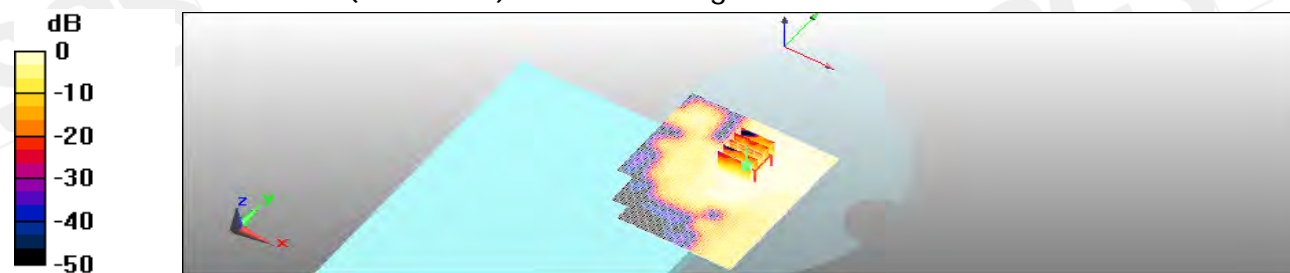
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.41 V/m; Power Drift = -0.0036 dB

Peak SAR (extrapolated) = 0.076 W/kg

SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.020 mW/g

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



0 dB = 0.039mW/g

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Date: 2010/11/05

Body_WLAN802.11b_Main Antenna_ CH6**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M); Frequency: 2437 MHz;
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.043 mW/g

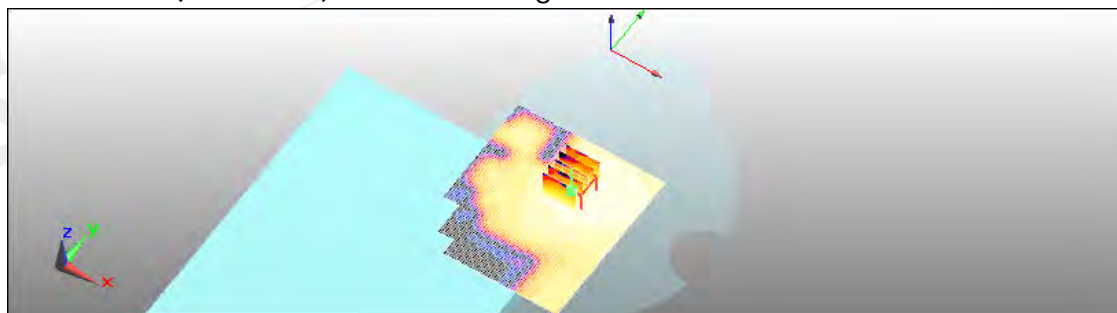
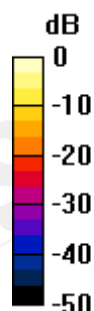
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.35 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.082 W/kg

SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.041 mW/g



0 dB = 0.041mW/g

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Date: 2010/11/05

Body_WLAN802.11b_Main Antenna_CH11**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M); Frequency: 2462 MHz;
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 52.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.045 mW/g

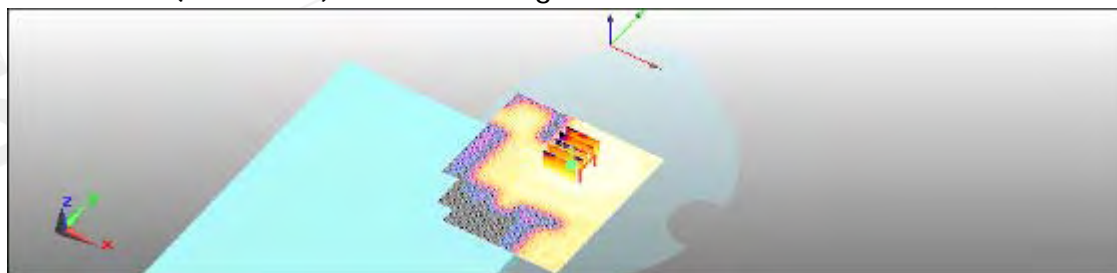
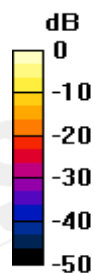
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.44 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.084 W/kg

SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.021 mW/g

Maximum value of SAR (measured) = 0.044 mW/g



0 dB = 0.044mW/g

Date: 2010/11/05

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Body_WLAN802.11b_AUX antenna_CH1**DUT: MARIO**

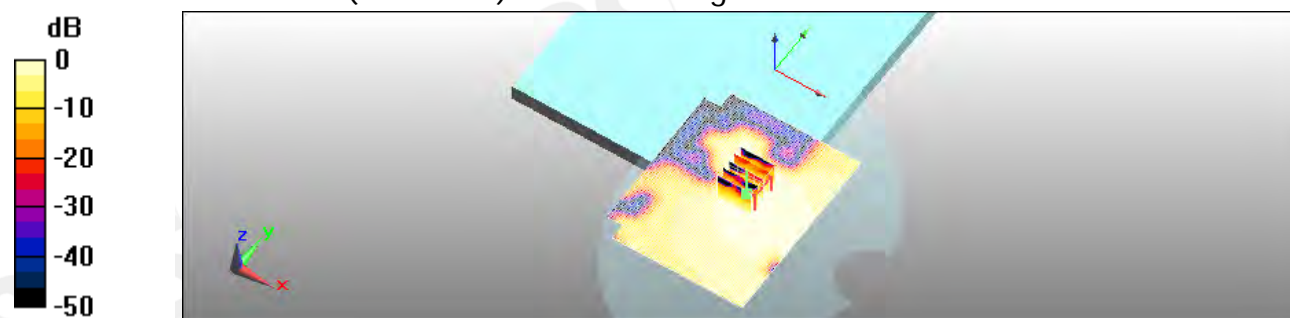
Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz;
Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$,
 $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.044 mW/g

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$,
 $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.33 V/m; Power Drift = -0.193 dB
Peak SAR (extrapolated) = 0.072 W/kg

SAR(1 g) = 0.039 mW/g; SAR(10 g) = 0.021 mW/g
Maximum value of SAR (measured) = 0.043 mW/g



0 dB = 0.043mW/g

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Date: 2010/11/05

Body_WLAN802.11b_AUX antenna_CH6**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz;
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

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

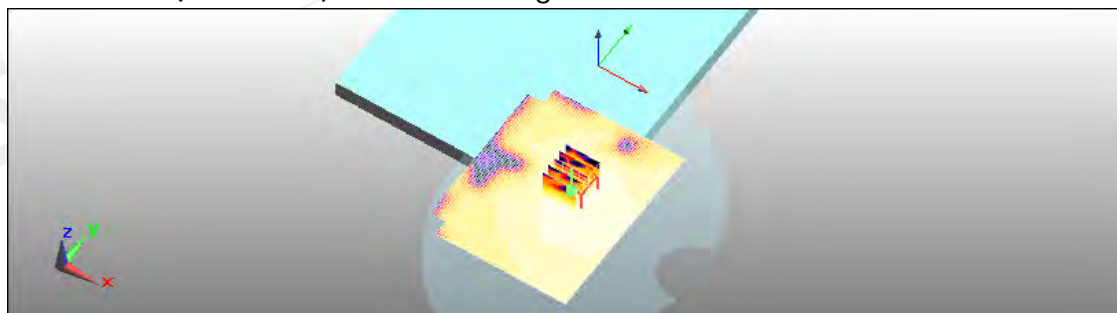
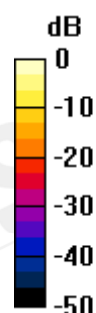
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.98 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 0.069 W/kg

SAR(1 g) = 0.036 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.040 mW/g



0 dB = 0.040mW/g

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Date: 2010/11/05

Body_WLAN802.11b_AUX antenna_CH11**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2462 MHz;
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 52.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.053 mW/g

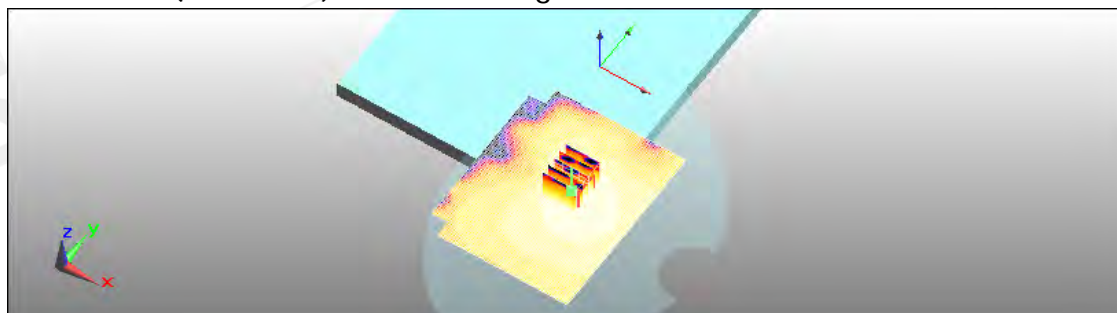
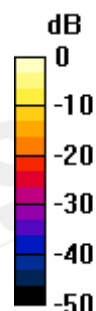
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.56 V/m ; Power Drift = -0.163 dB

Peak SAR (extrapolated) = 0.095 W/kg

SAR(1 g) = 0.049 mW/g ; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.054 mW/g



0 dB = 0.054 mW/g

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Date: 2010/11/05

Body_WLAN802.11g_Main Antenna_CH1**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M); Frequency: 2412 MHz;
Medium parameters used: $f = 2412$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.030 mW/g

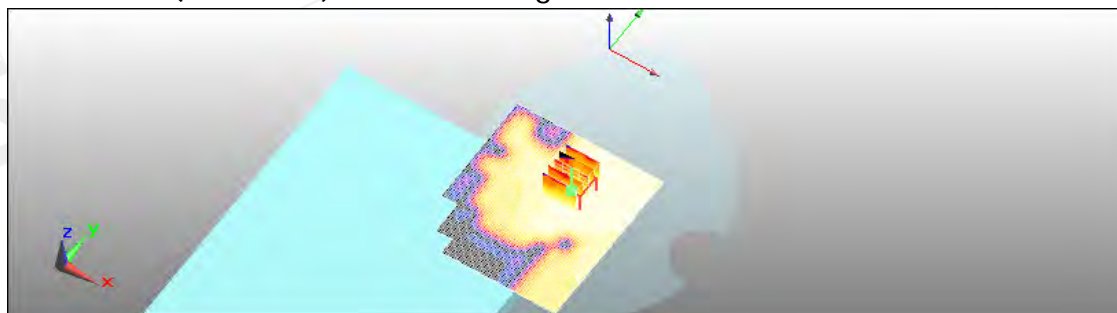
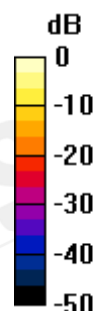
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.84 V/m; Power Drift = 0.107 dB

Peak SAR (extrapolated) = 0.058 W/kg

SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.015 mW/g

Maximum value of SAR (measured) = 0.030 mW/g



0 dB = 0.030mW/g

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Date: 2010/11/05

Body_WLAN802.11g_Main Antenna_CH6**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M); Frequency: 2437 MHz;
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.032 mW/g

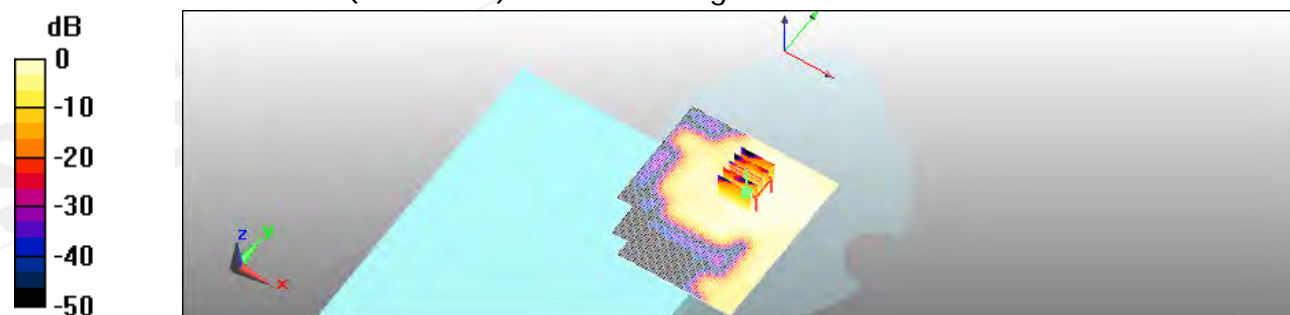
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.91 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.066 W/kg

SAR(1 g) = 0.031 mW/g; SAR(10 g) = 0.016 mW/g

Maximum value of SAR (measured) = 0.033 mW/g



0 dB = 0.033mW/g

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Date: 2010/11/05

Body_WLAN802.11g_Main Antenna_CH11**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M); Frequency: 2462 MHz;
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 52.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.035 mW/g

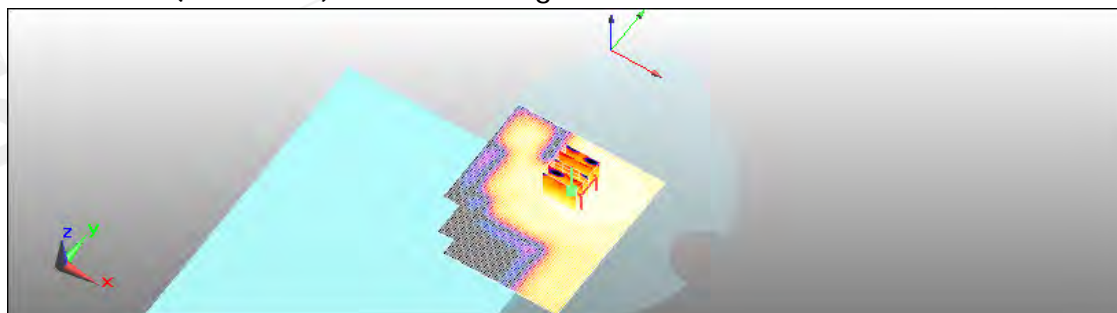
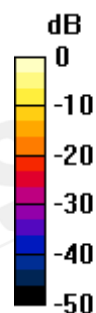
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.91 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 0.068 W/kg

SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.036 mW/g



0 dB = 0.036mW/g

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Date: 2010/11/05

Body_WLAN802.11g_AUX antenna_CH1**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz;
Medium parameters used: $f = 2412$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.031 mW/g

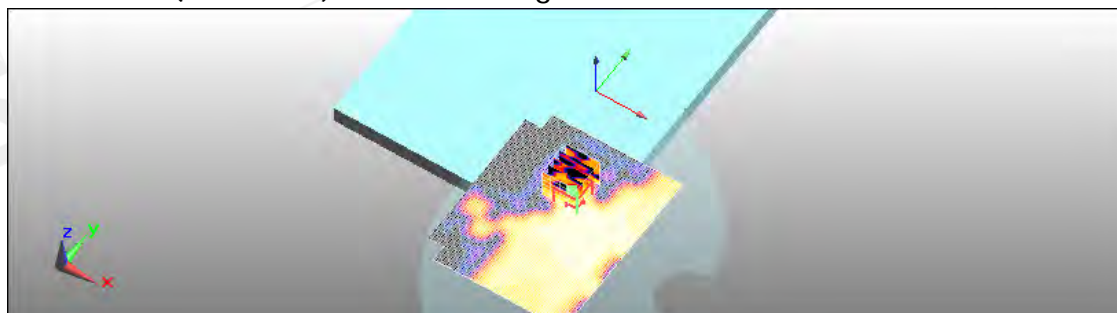
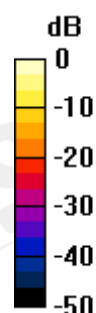
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.49 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.029 W/kg

SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00559 mW/g

Maximum value of SAR (measured) = 0.019 mW/g



0 dB = 0.019mW/g

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Date: 2010/11/05

Body_WLAN802.11g_AUX antenna_CH6

DUT: MARIO

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz;
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.017 mW/g

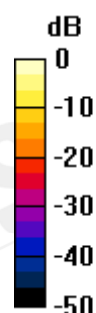
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.37 V/m; Power Drift = 0.135 dB

Peak SAR (extrapolated) = 0.027 W/kg

SAR(1 g) = 0.00778 mW/g; SAR(10 g) = 0.00322 mW/g

Maximum value of SAR (measured) = 0.00824 mW/g



0 dB = 0.00824mW/g

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Date: 2010/11/05

Body_WLAN802.11g_AUX antenna_CH11**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2462 MHz;
Medium parameters used: $f = 2462$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.012 mW/g

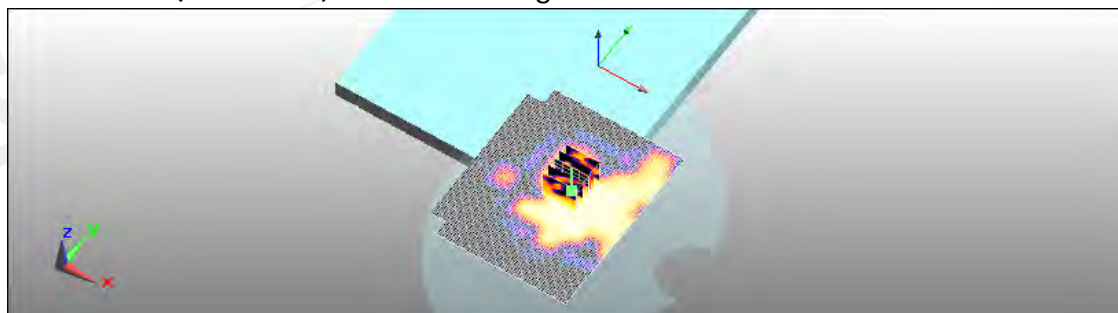
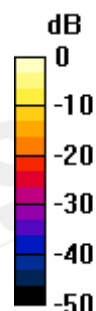
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.97 V/m; Power Drift = -0.0021 dB

Peak SAR (extrapolated) = 0.032 W/kg

SAR(1 g) = 0.00923 mW/g; SAR(10 g) = 0.00384 mW/g

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



0 dB = 0.011mW/g

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Date: 2010/11/05

Body_WLAN802.11n(20M)_Main Antenna_CH1**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M); Frequency: 2412 MHz;
Medium parameters used: $f = 2412$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.030 mW/g

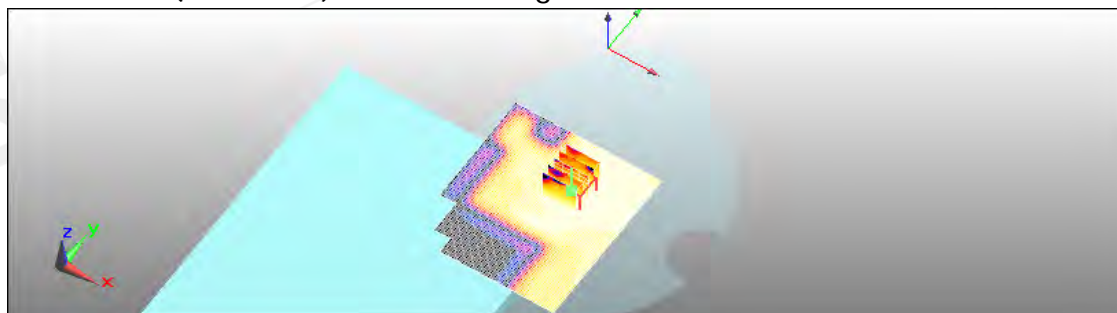
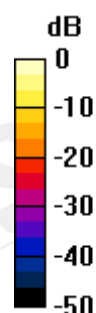
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.81 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 0.055 W/kg

SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.015 mW/g

Maximum value of SAR (measured) = 0.030 mW/g



0 dB = 0.030mW/g

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Date: 2010/11/05

Body_WLAN802.11n(20M)_Main Antenna_CH6**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M); Frequency: 2437 MHz;
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.032 mW/g

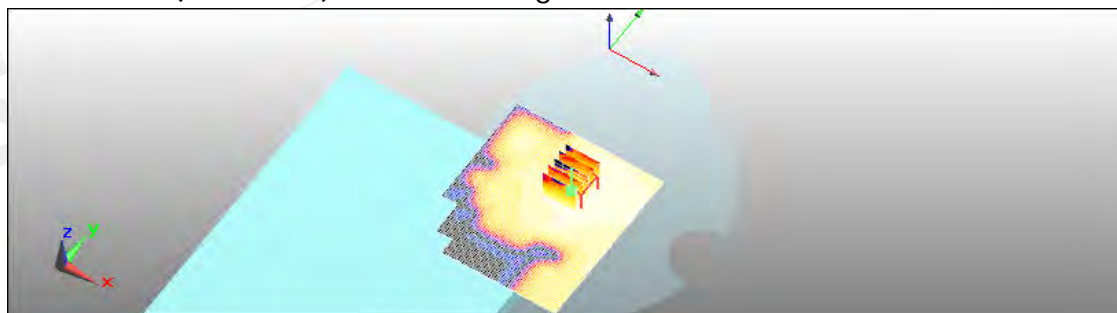
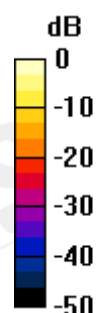
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.9 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 0.061 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.016 mW/g

Maximum value of SAR (measured) = 0.033 mW/g



0 dB = 0.033mW/g

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Date: 2010/11/05

Body_WLAN802.11n(20M)_Main Antenna_CH11**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M); Frequency: 2462 MHz;
Medium parameters used: $f = 2462$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.035 mW/g

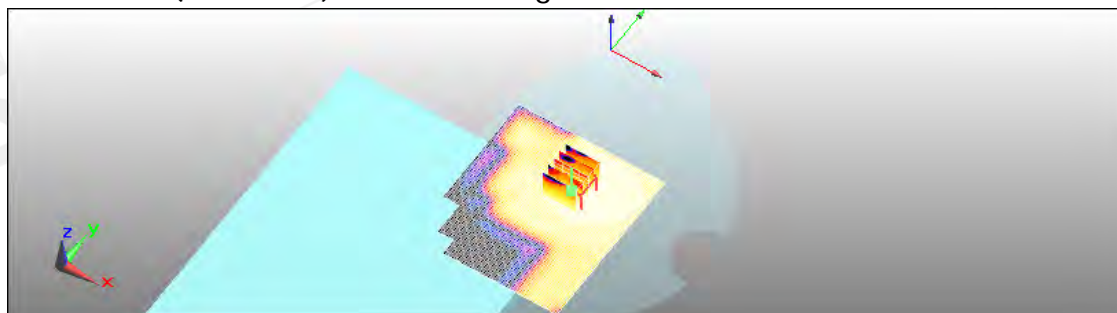
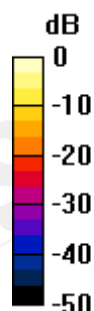
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.94 V/m; Power Drift = 0.089 dB

Peak SAR (extrapolated) = 0.070 W/kg

SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.036 mW/g



0 dB = 0.036mW/g

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Date: 2010/11/05

Body_WLAN802.11n(20M)_AUX antenna_CH1**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2412 MHz;

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.00804 mW/g

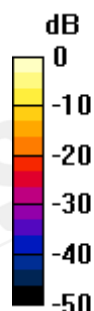
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.45 V/m; Power Drift = 0.113 dB

Peak SAR (extrapolated) = 0.025 W/kg

SAR(1 g) = 0.00769 mW/g; SAR(10 g) = 0.00295 mW/g

Maximum value of SAR (measured) = 0.00848 mW/g



0 dB = 0.00848mW/g

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Date: 2010/11/05

Body_WLAN802.11n(20M)_AUX antenna_CH6**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz;

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.00883 mW/g

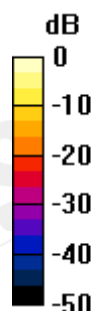
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.76 V/m; Power Drift = -0.159 dB

Peak SAR (extrapolated) = 0.027 W/kg

SAR(1 g) = 0.00677 mW/g; SAR(10 g) = 0.00294 mW/g

Maximum value of SAR (measured) = 0.00748 mW/g



0 dB = 0.00748mW/g

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Date: 2010/11/05

Body_WLAN802.11n(20M)_AUX antenna_CH11

DUT: MARIO

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2462 MHz;

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.017 mW/g

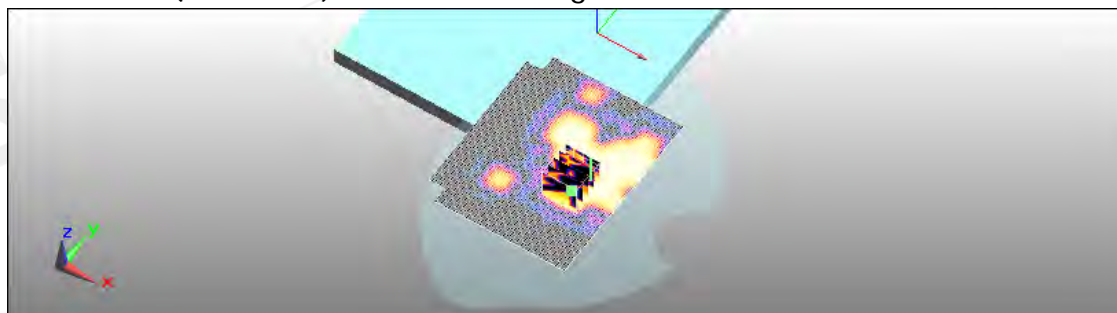
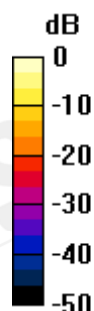
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.49 V/m; Power Drift = 0.197 dB

Peak SAR (extrapolated) = 0.035 W/kg

SAR(1 g) = 0.0076 mW/g; SAR(10 g) = 0.00318 mW/g

Maximum value of SAR (measured) = 0.00639 mW/g



0 dB = 0.00639mW/g

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Date: 2010/11/05

Body_WLAN802.11n(40M)_Main Antenna_CH3**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2422 MHz;

Medium parameters used: $f = 2422$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.032 mW/g

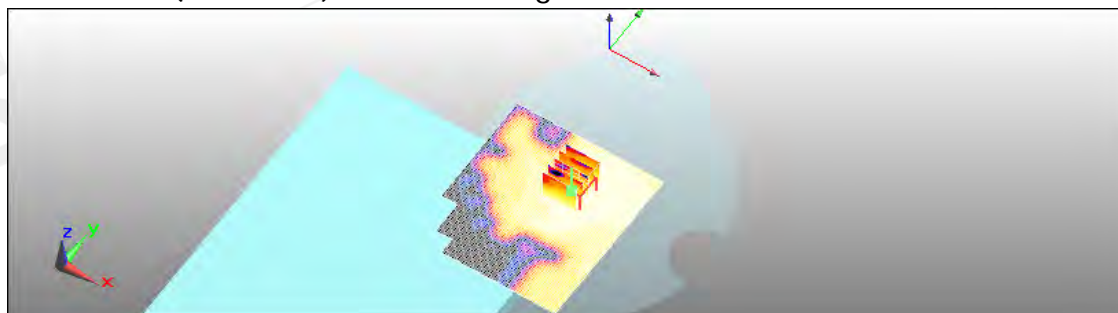
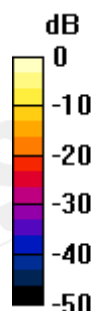
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.87 V/m; Power Drift = 0.143 dB

Peak SAR (extrapolated) = 0.059 W/kg

SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.016 mW/g

Maximum value of SAR (measured) = 0.032 mW/g



0 dB = 0.032mW/g

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Date: 2010/11/05

Body_WLAN802.11n(40M)_Main Antenna_CH6

DUT: MARIO

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz;
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.033 mW/g

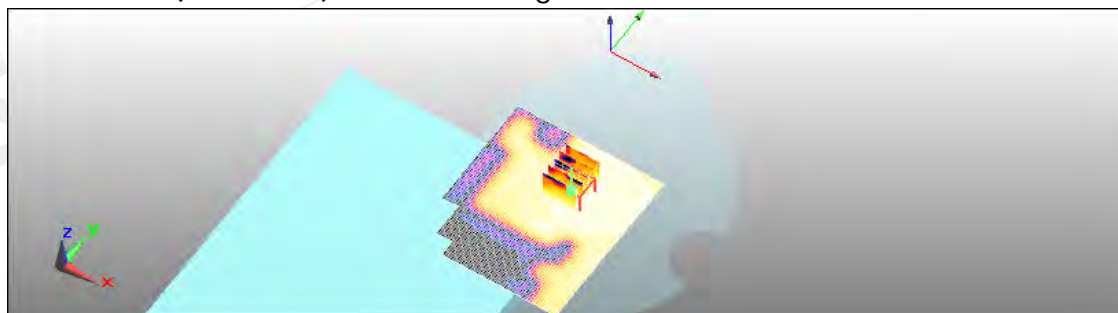
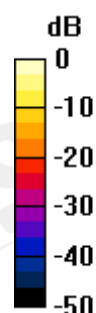
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.91 V/m; Power Drift = 0.114 dB

Peak SAR (extrapolated) = 0.068 W/kg

SAR(1 g) = 0.031 mW/g; SAR(10 g) = 0.016 mW/g

Maximum value of SAR (measured) = 0.032 mW/g



0 dB = 0.032mW/g

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Date: 2010/11/05

Body_WLAN802.11n(40M)_Main Antenna_CH9

DUT: MARIO

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2452 MHz;
Medium parameters used: $f = 2452$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.037 mW/g

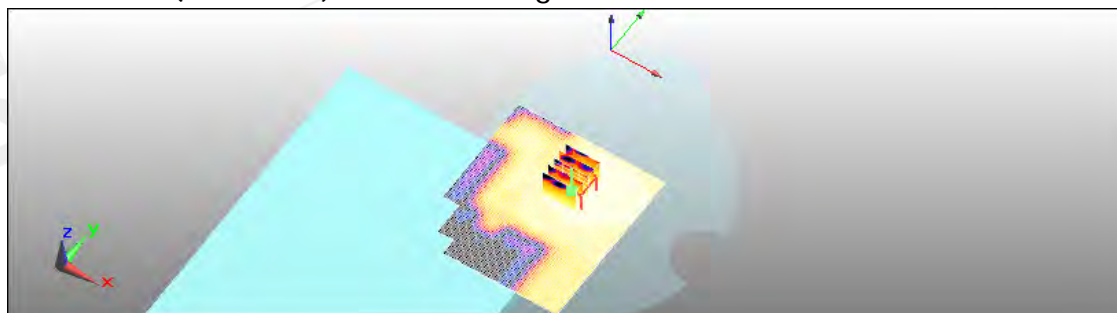
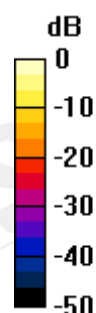
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.02 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 0.070 W/kg

SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.018 mW/g

Maximum value of SAR (measured) = 0.037 mW/g



0 dB = 0.037mW/g

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Date: 2010/11/05

Body_WLAN802.11n(40M)_AUX antenna_CH3**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2422 MHz;

Medium parameters used: $f = 2422$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.023 mW/g

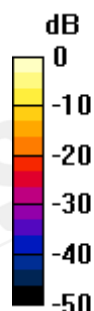
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.9 V/m; Power Drift = 0.130 dB

Peak SAR (extrapolated) = 0.030 W/kg

SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00938 mW/g

Maximum value of SAR (measured) = 0.023 mW/g



0 dB = 0.023mW/g

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Date: 2010/11/05

Body_WLAN802.11n(40M)_AUX antenna_CH6**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2437 MHz;
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.023 mW/g

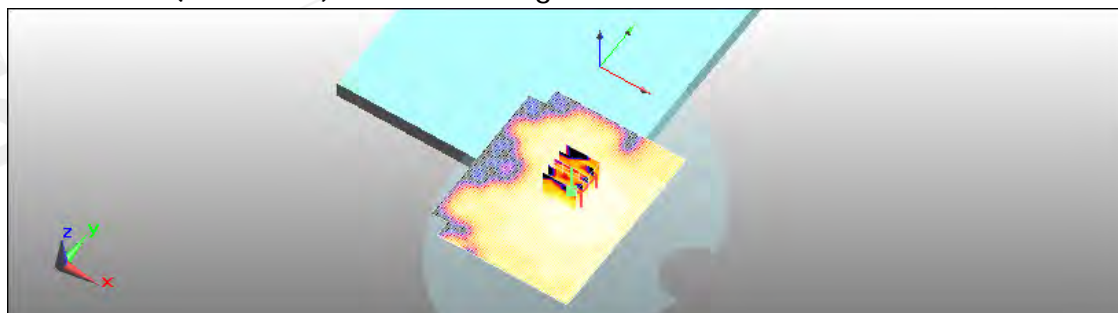
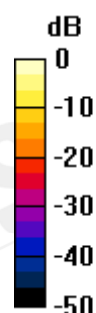
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.03 V/m; Power Drift = -0.171 dB

Peak SAR (extrapolated) = 0.036 W/kg

SAR(1 g) = 0.021 mW/g; SAR(10 g) = 0.011 mW/g

Maximum value of SAR (measured) = 0.024 mW/g



0 dB = 0.024mW/g

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Date: 2010/11/05

Body_WLAN802.11n(40M)_AUX antenna_CH9**DUT: MARIO**

Communication System: WLAN802.11 b & g & n(20M)(40M); Frequency: 2452 MHz;

Medium parameters used: $f = 2452 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.030 mW/g

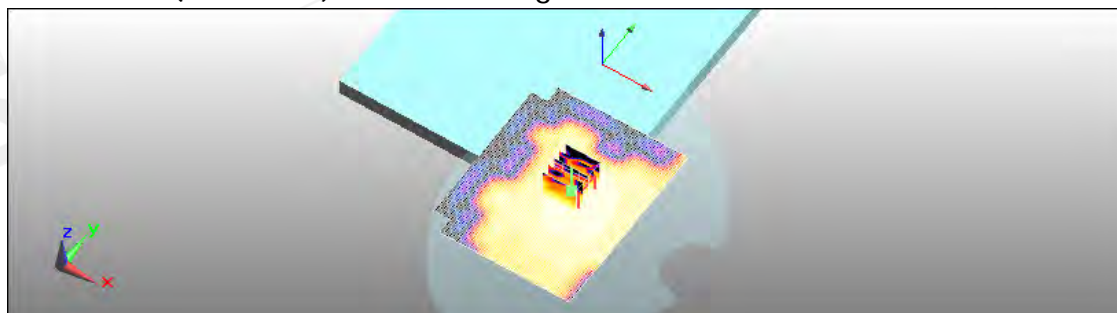
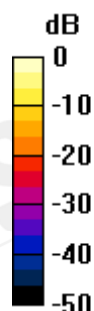
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.21 V/m; Power Drift = 0.119 dB

Peak SAR (extrapolated) = 0.044 W/kg

SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.012 mW/g

Maximum value of SAR (measured) = 0.029 mW/g



0 dB = 0.029mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_Main Antenna_CH36

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5180 MHz;
Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.28 \text{ mho/m}$; $\epsilon_r = 48.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.088 mW/g

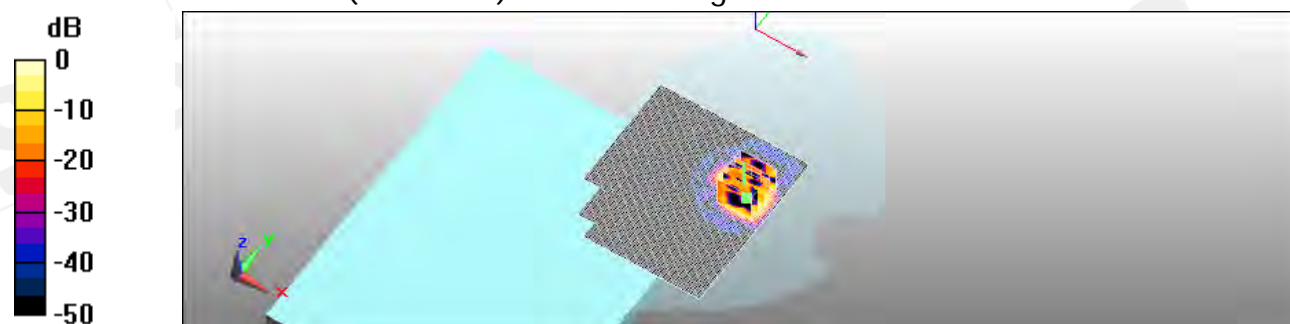
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.36 V/m ; Power Drift = 0.125 dB

Peak SAR (extrapolated) = 0.221 W/kg

SAR(1 g) = 0.067 mW/g ; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.067 mW/g



0 dB = 0.067mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_ Main Antenna _CH40**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5200 MHz;
Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 5.34 \text{ mho/m}$; $\epsilon_r = 48.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.160 mW/g

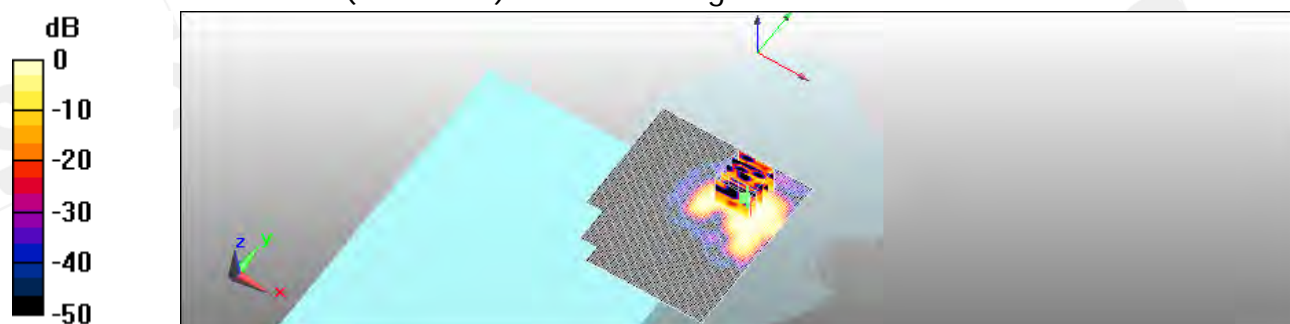
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.93 V/m ; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 0.267 W/kg

SAR(1 g) = 0.061 mW/g ; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.054 mW/g



0 dB = 0.054 mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_ Main Antenna _CH48

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5240 MHz;
Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.143 mW/g

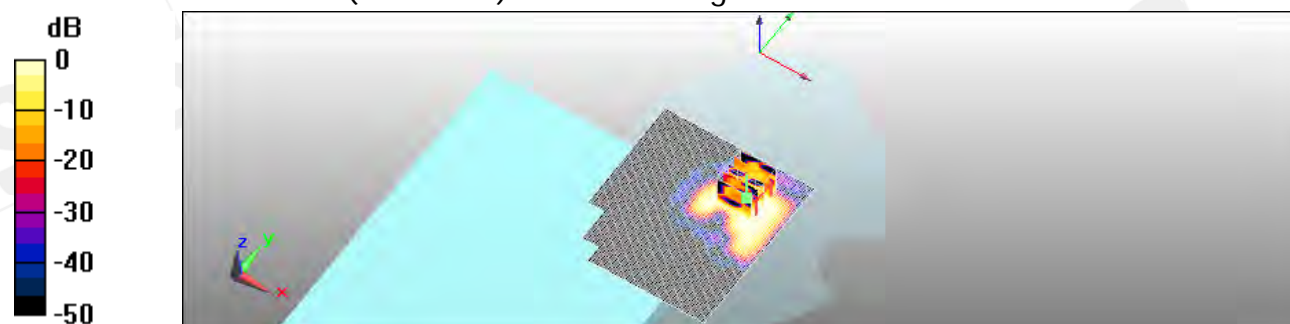
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.12 V/m ; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 0.233 W/kg

SAR(1 g) = 0.058 mW/g ; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.055 mW/g



0 dB = 0.055mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_AUX antenna_CH36

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5180 MHz;
Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.28 \text{ mho/m}$; $\epsilon_r = 48.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.051 mW/g

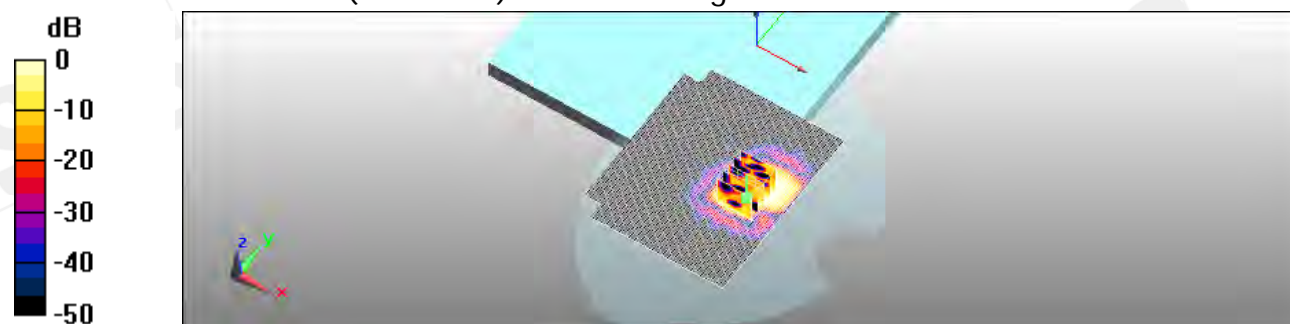
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.49 V/m; Power Drift = 0.216 dB

Peak SAR (extrapolated) = 0.240 W/kg

SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.040 mW/g



0 dB = 0.040mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_AUX antenna_CH40

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5200 MHz;
Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 5.34 \text{ mho/m}$; $\epsilon_r = 48.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.061 mW/g

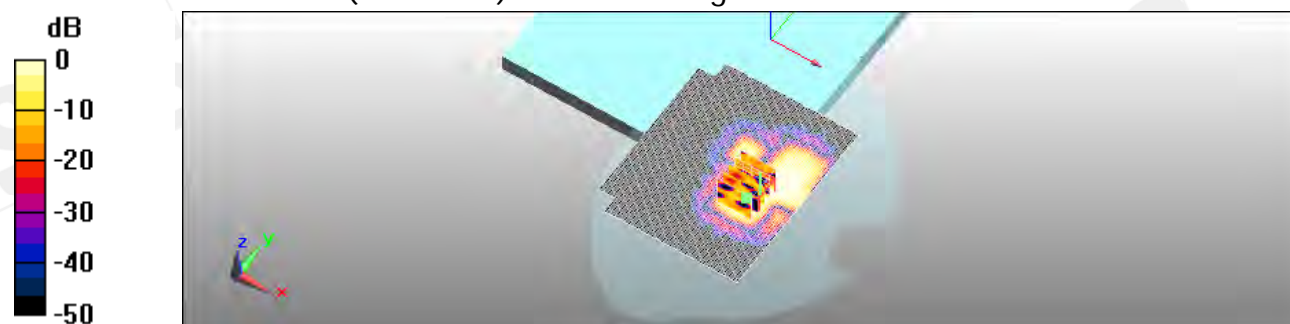
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.07 V/m ; Power Drift = -0.204 dB

Peak SAR (extrapolated) = 0.287 W/kg

SAR(1 g) = 0.053 mW/g ; SAR(10 g) = 0.024 mW/g

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



0 dB = 0.046mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_AUX antenna_CH48

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5240 MHz;
Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.064 mW/g

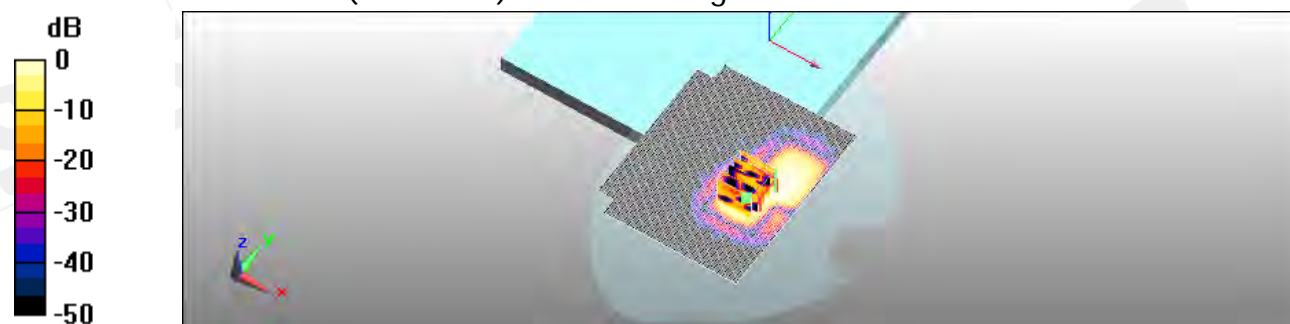
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.08 V/m ; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 0.293 W/kg

SAR(1 g) = 0.063 mW/g ; SAR(10 g) = 0.026 mW/g

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



0 dB = 0.052mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_ Main Antenna _CH52**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5260 MHz;
Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.41 \text{ mho/m}$; $\epsilon_r = 48.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.060 mW/g

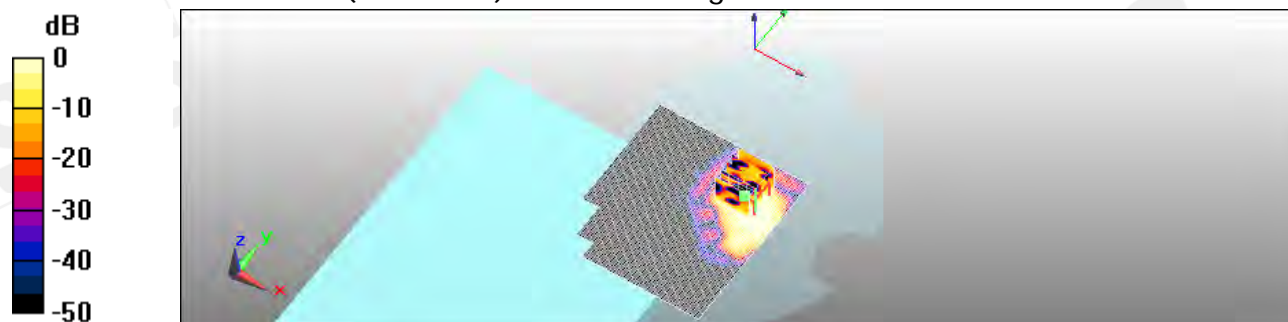
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.87 V/m ; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 0.280 W/kg

SAR(1 g) = 0.054 mW/g ; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.045 mW/g



0 dB = 0.045 mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_ Main Antenna _CH60

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5300 MHz;
Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.47 \text{ mho/m}$; $\epsilon_r = 48.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

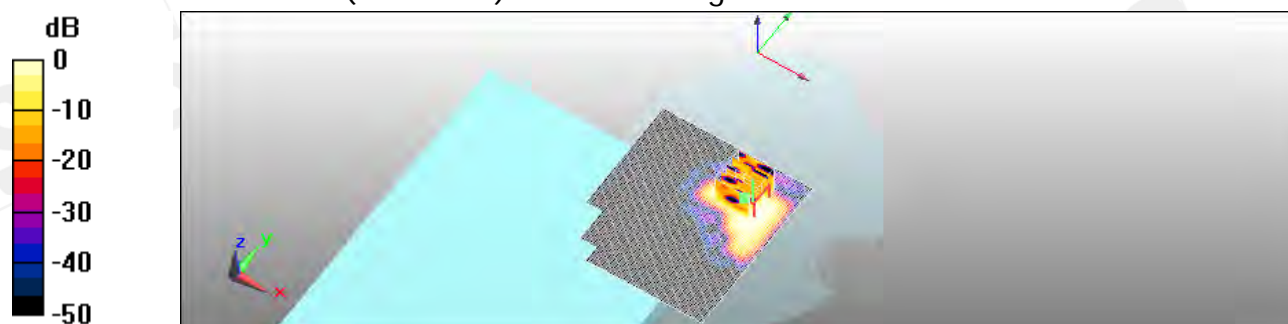
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.1 V/m ; Power Drift = -0.189 dB

Peak SAR (extrapolated) = 0.297 W/kg

SAR(1 g) = 0.065 mW/g ; SAR(10 g) = 0.026 mW/g

Maximum value of SAR (measured) = 0.056 mW/g



0 dB = 0.056 mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_ Main Antenna _CH64

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5320 MHz;
Medium parameters used: $f = 5320 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$; $\epsilon_r = 48.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.0777 mW/g

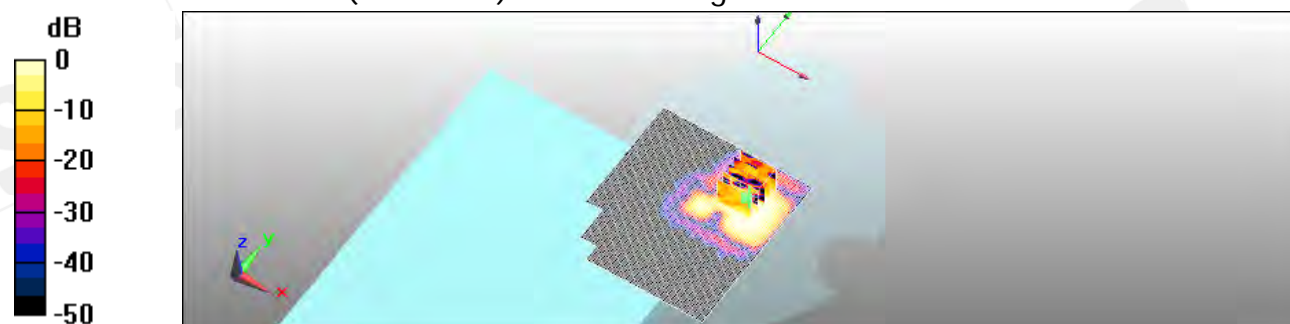
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.31 V/m; Power Drift = 0.148 dB

Peak SAR (extrapolated) = 0.362 W/kg

SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.061 mW/g



0 dB = 0.061mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_AUX antenna_CH52**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5260 MHz;
Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.41 \text{ mho/m}$; $\epsilon_r = 48.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

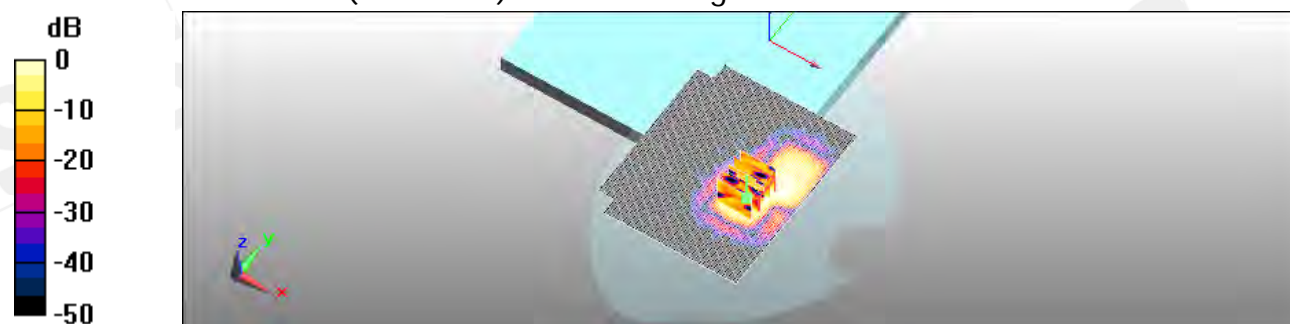
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.28 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 0.352 W/kg

SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.030 mW/g

Maximum value of SAR (measured) = 0.056 mW/g



0 dB = 0.056 mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_AUX antenna_CH60**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5300 MHz;
Medium parameters used: $f = 5300$ MHz; $\sigma = 5.47$ mho/m; $\epsilon_r = 48.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

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

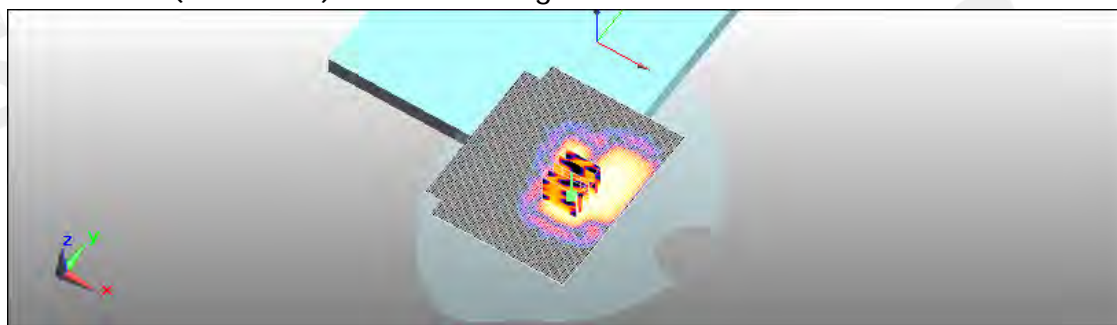
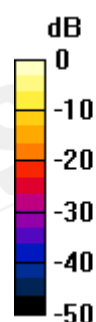
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.77 V/m; Power Drift = -0.130 dB

Peak SAR (extrapolated) = 0.407 W/kg

SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.035 mW/g

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



0 dB = 0.070mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_AUX antenna_CH64**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5320 MHz;
Medium parameters used: $f = 5320 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$; $\epsilon_r = 48.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

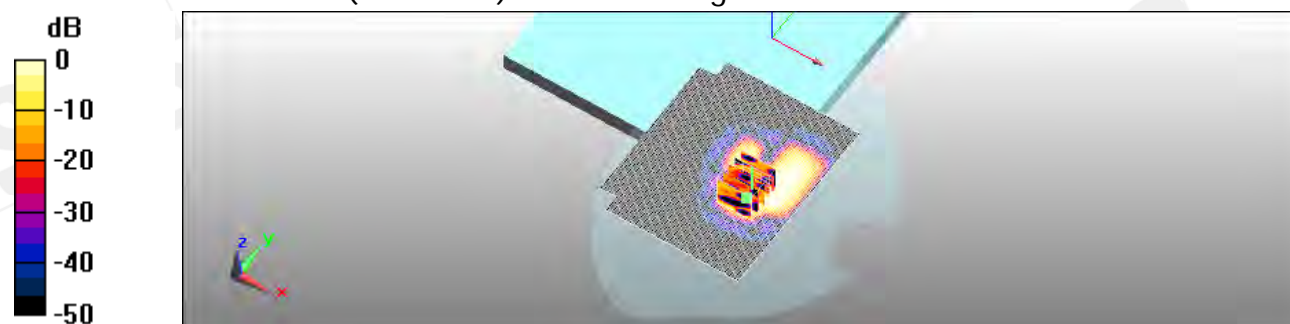
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.07 V/m ; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.103 mW/g ; SAR(10 g) = 0.042 mW/g

Maximum value of SAR (measured) = 0.087 mW/g



0 dB = 0.087 mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_ Main antenna_CH100**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5500 MHz;
Medium parameters used: $f = 5500$ MHz; $\sigma = 5.75$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

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

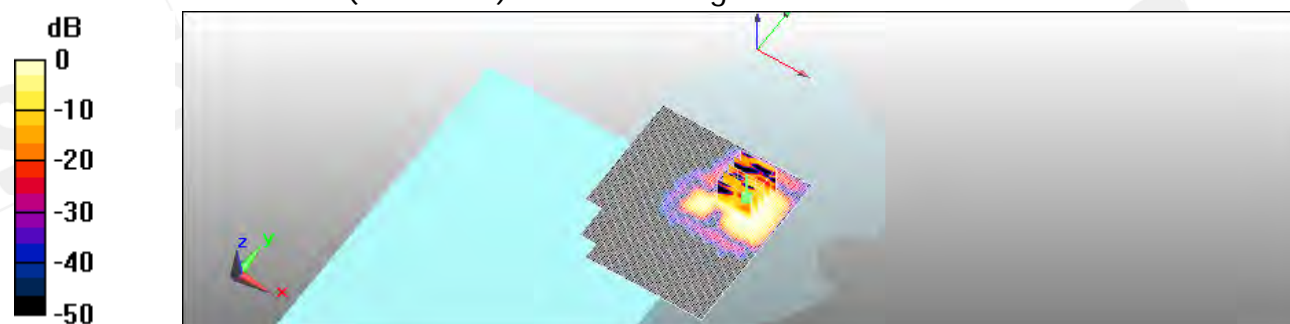
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.65 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.418 W/kg

SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.077 mW/g



0 dB = 0.077mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_ Main antenna_CH120**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5600 MHz;
Medium parameters used: $f = 5600$ MHz; $\sigma = 5.91$ mho/m; $\epsilon_r = 47.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

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

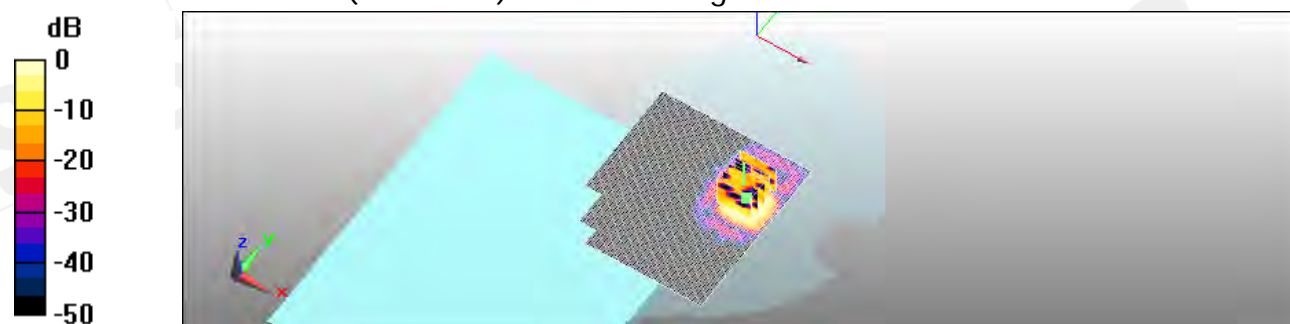
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.03 V/m; Power Drift = 0.161 dB

Peak SAR (extrapolated) = 0.367 W/kg

SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.030 mW/g

Maximum value of SAR (measured) = 0.060 mW/g



0 dB = 0.060mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_ Main antenna_CH140

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5700 MHz;
Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 6.03 \text{ mho/m}$; $\epsilon_r = 46.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.037 mW/g

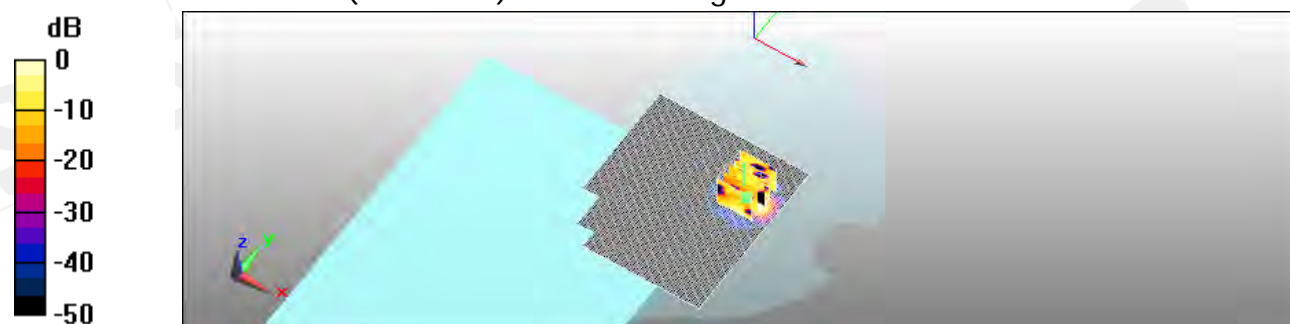
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.94 V/m ; Power Drift = 0.109 dB

Peak SAR (extrapolated) = 0.174 W/kg

SAR(1 g) = 0.026 mW/g ; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.030 mW/g



0 dB = 0.030mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_AUX antenna_CH100

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5500 MHz;
Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.75 \text{ mho/m}$; $\epsilon_r = 47.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.247 mW/g

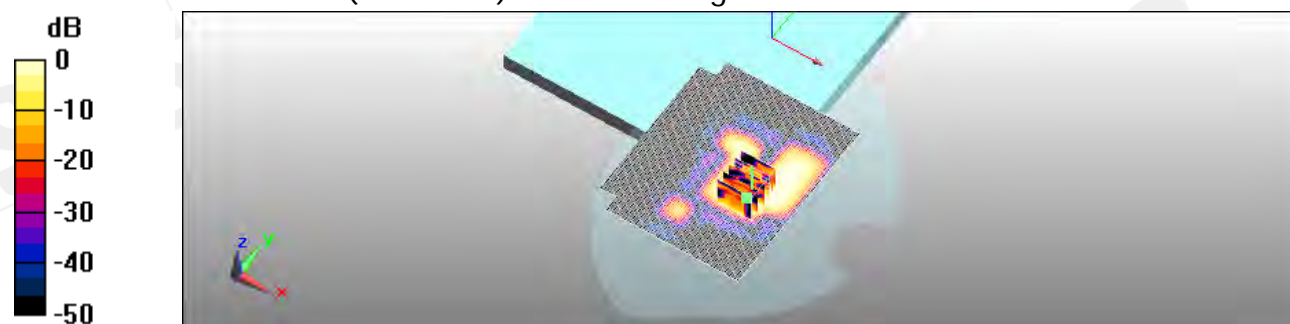
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.11 V/m ; Power Drift = -0.174 dB

Peak SAR (extrapolated) = 0.676 W/kg

SAR(1 g) = 0.161 mW/g ; SAR(10 g) = 0.066 mW/g

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



0 dB = 0.146 mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_AUX antenna_CH120**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5600 MHz;
Medium parameters used: $f = 5600$ MHz; $\sigma = 5.91$ mho/m; $\epsilon_r = 47.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.274 mW/g

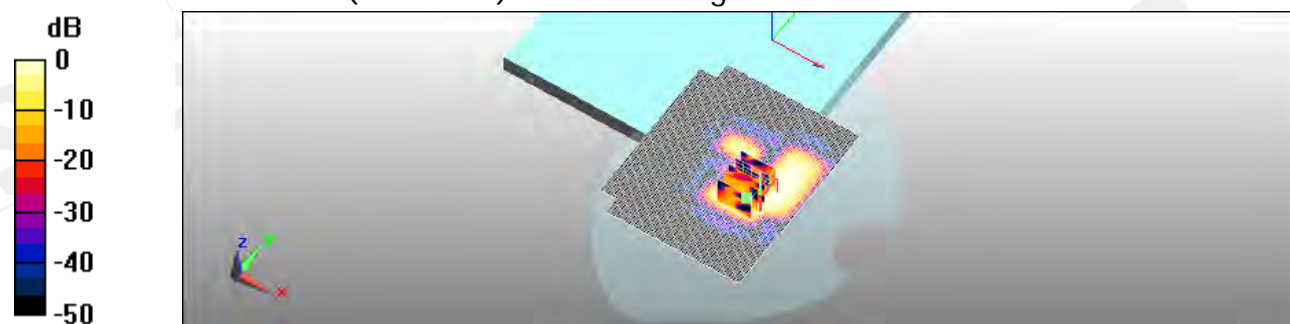
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.49 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 0.582 W/kg

SAR(1 g) = 0.134 mW/g; SAR(10 g) = 0.055 mW/g

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



0 dB = 0.125mW/g

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Date: 2010/11/27

Body_WLAN802.11n(20M)_AUX antenna_CH140

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5700 MHz;
Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 6.03 \text{ mho/m}$; $\epsilon_r = 46.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

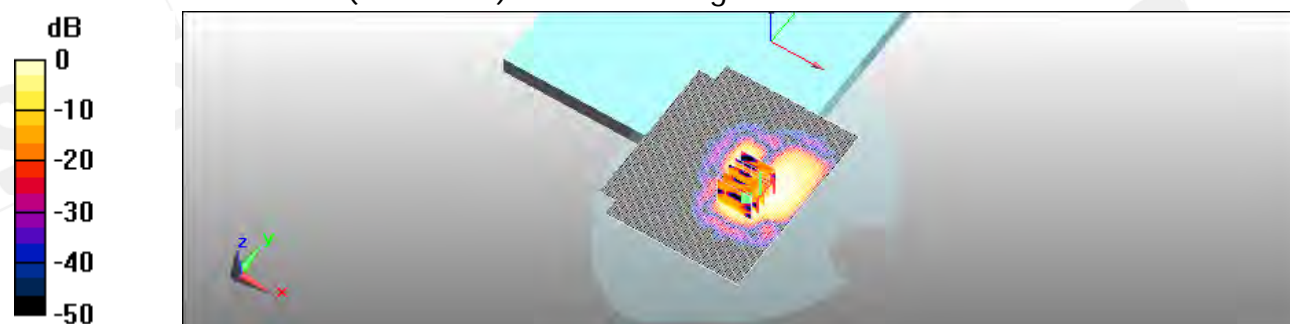
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.83 V/m; Power Drift = 0.136 dB

Peak SAR (extrapolated) = 0.504 W/kg

SAR(1 g) = 0.113 mW/g; SAR(10 g) = 0.047 mW/g

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



0 dB = 0.101mW/g

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Date: 2010/11/07

Body_WLAN802.11n(20M)_Main Antenna_CH149**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5745 MHz;

Medium parameters used: $f = 5745$ MHz; $\sigma = 6.11$ mho/m; $\epsilon_r = 46.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.047 mW/g

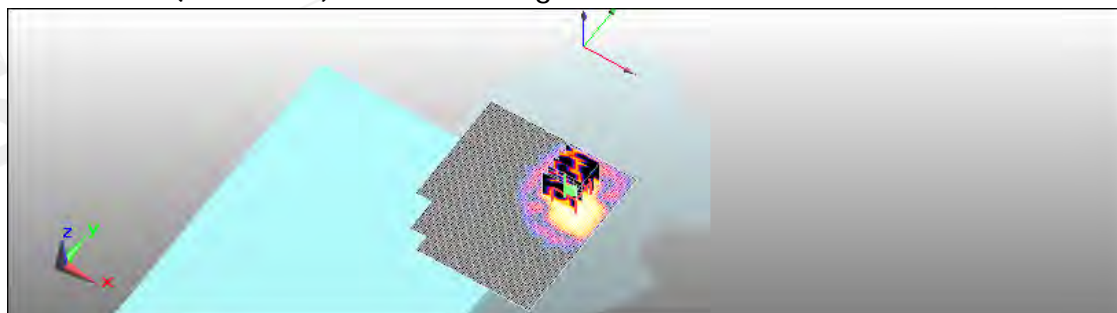
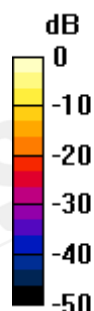
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.71 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 0.268 W/kg

SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.021 mW/g

Maximum value of SAR (measured) = 0.048 mW/g



0 dB = 0.048mW/g

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Date: 2010/11/07

Body_WLAN802.11n(20M)_Main Antenna_CH157

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5785 MHz;

Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.17 \text{ mho/m}$; $\epsilon_r = 46.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.049 mW/g

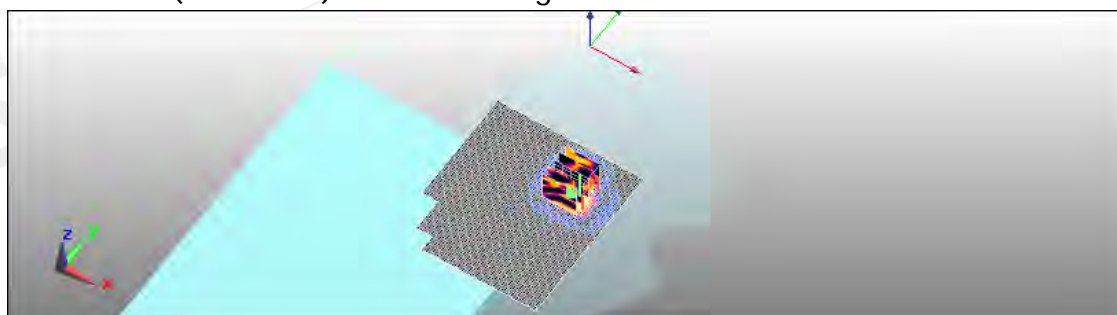
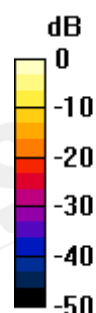
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.53 V/m; Power Drift = 0.178 dB

Peak SAR (extrapolated) = 0.237 W/kg

SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.018 mW/g

Maximum value of SAR (measured) = 0.043 mW/g



0 dB = 0.043mW/g

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Date: 2010/11/07

Body_WLAN802.11n(20M)_Main Antenna_CH165**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5825 MHz;

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.22 \text{ mho/m}$; $\epsilon_r = 46.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.044 mW/g

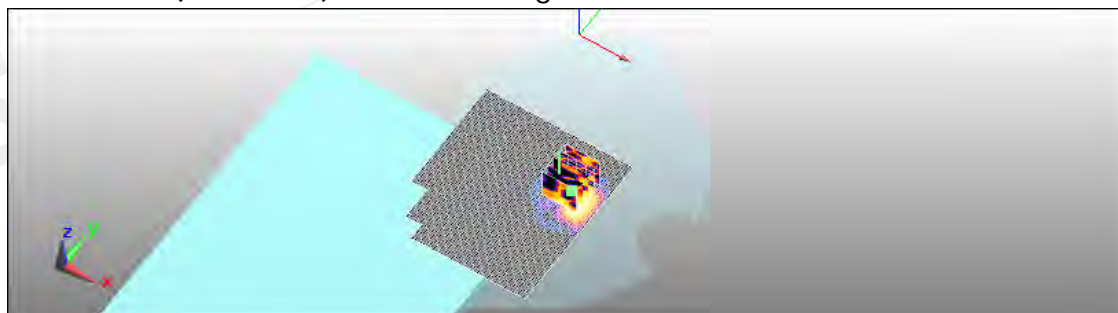
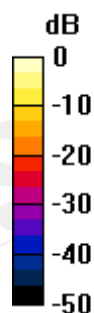
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.48 V/m; Power Drift = -0.119 dB

Peak SAR (extrapolated) = 0.192 W/kg

SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.016 mW/g

Maximum value of SAR (measured) = 0.035 mW/g



0 dB = 0.035mW/g

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Date: 2010/11/07

Body_WLAN802.11n(20M)_AUX antenna_CH149**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5745 MHz;

Medium parameters used: $f = 5745$ MHz; $\sigma = 6.11$ mho/m; $\epsilon_r = 46.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.023 mW/g

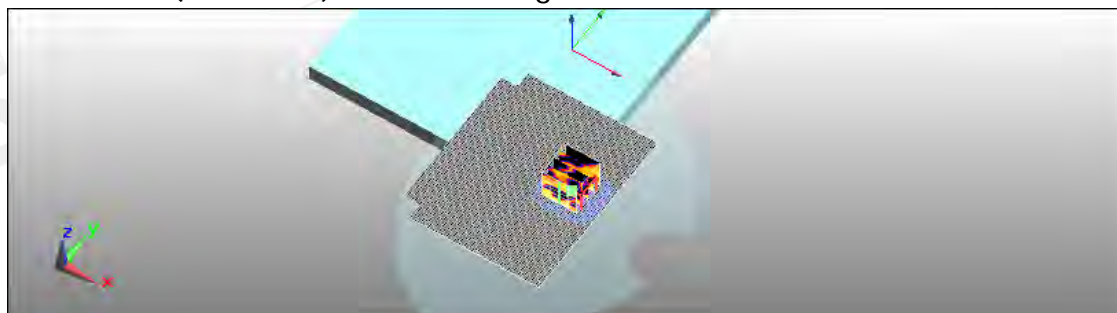
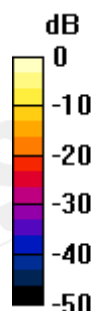
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.68 V/m; Power Drift = 0.091 dB

Peak SAR (extrapolated) = 0.132 W/kg

SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.00881 mW/g

Maximum value of SAR (measured) = 0.025 mW/g



0 dB = 0.025mW/g

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Date: 2010/11/07

Body_WLAN802.11n(20M)_AUX antenna_CH157

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5785 MHz;

Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.17 \text{ mho/m}$; $\epsilon_r = 46.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.031 mW/g

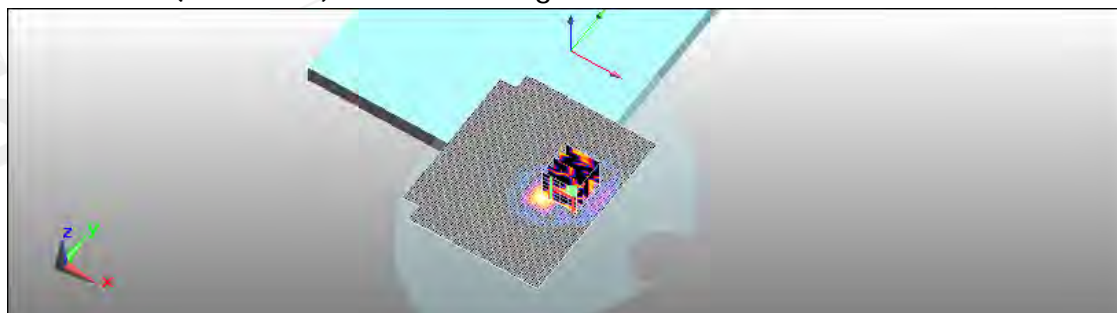
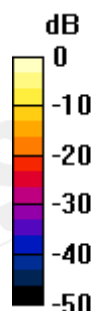
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.57 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.178 W/kg

SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.014 mW/g

Maximum value of SAR (measured) = 0.032 mW/g



0 dB = 0.032mW/g

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Date: 2010/11/07

Body_WLAN802.11n(20M)_AUX antenna_CH165**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5825 MHz;

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.22 \text{ mho/m}$; $\epsilon_r = 46.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.020 mW/g

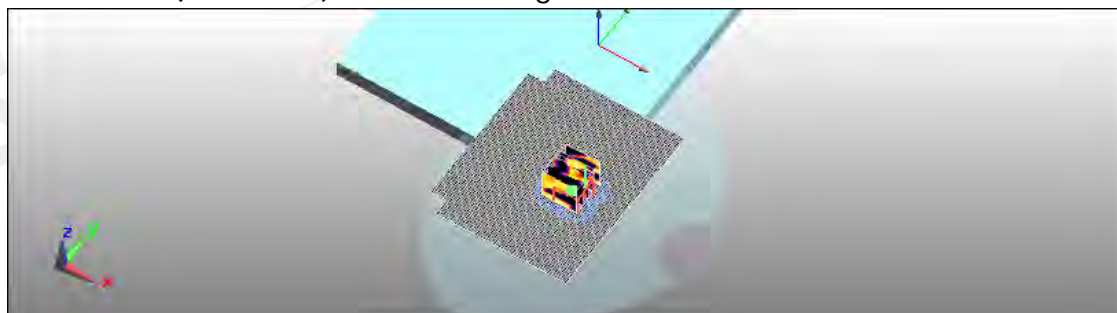
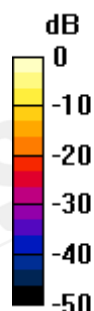
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.86 V/m; Power Drift = -0.109 dB

Peak SAR (extrapolated) = 0.072 W/kg

SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00314 mW/g

Maximum value of SAR (measured) = 0.019 mW/g



0 dB = 0.019mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_Main antenna _CH38**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5190 MHz;
Medium parameters used (interpolated): $f = 5190$ MHz; $\sigma = 5.31$ mho/m; $\epsilon_r = 48.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.065 mW/g

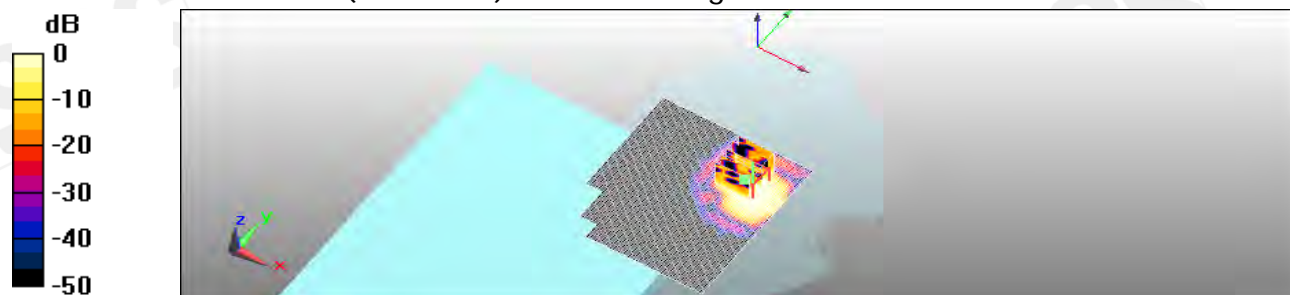
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.76 V/m; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 0.306 W/kg

SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.027 mW/g

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



0 dB = 0.046mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_ Main antenna _CH46

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5230 MHz;
Medium parameters used (interpolated): $f = 5230 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.137 mW/g

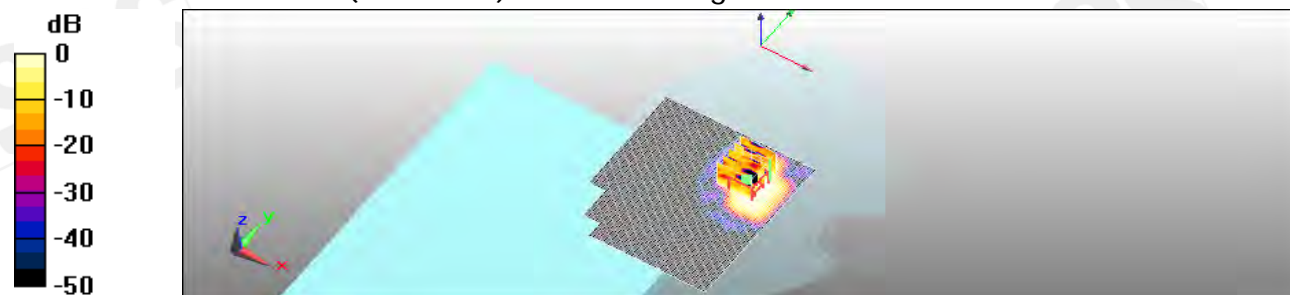
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.78 V/m; Power Drift = 0.144 dB

Peak SAR (extrapolated) = 0.195 W/kg

SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.00726 mW/g

Maximum value of SAR (measured) = 0.051 mW/g



0 dB = 0.051mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_AUX antenna_CH38**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5190 MHz;
Medium parameters used (interpolated): $f = 5190$ MHz; $\sigma = 5.31$ mho/m; $\epsilon_r = 48.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

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

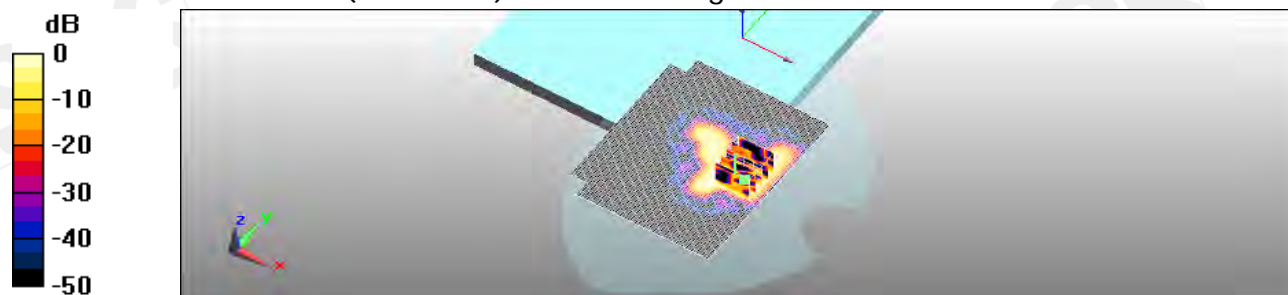
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.39 V/m; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 0.295 W/kg

SAR(1 g) = 0.064 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.054 mW/g



0 dB = 0.054mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_AUX antenna_CH46

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5230 MHz;
Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.35$ mho/m; $\epsilon_r = 48.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.145 mW/g

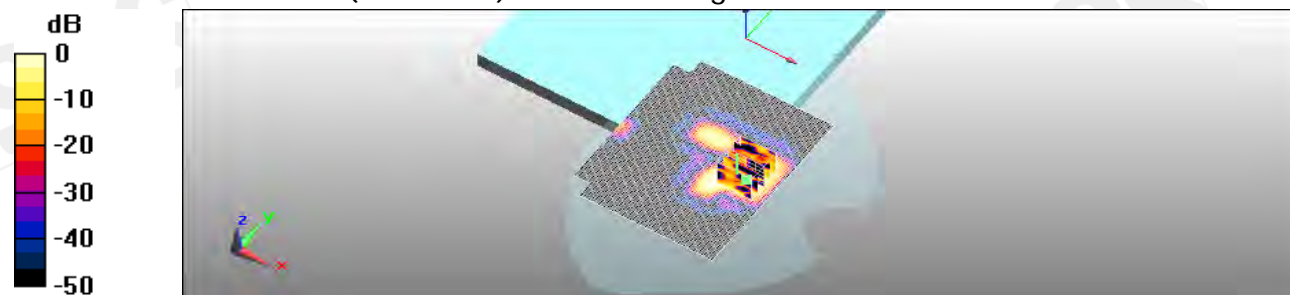
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.21 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.286 W/kg

SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.056 mW/g



0 dB = 0.056mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_ Main antenna _CH54**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5270 MHz;
Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.42$ mho/m; $\epsilon_r = 48.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

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

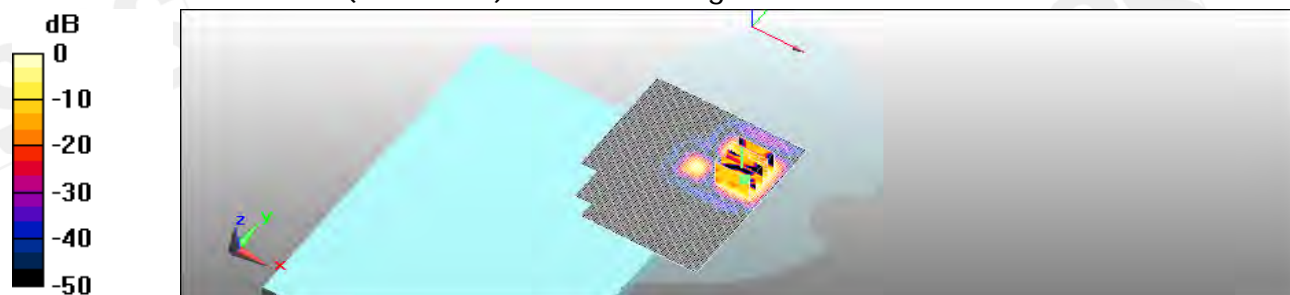
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.79 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.238 W/kg

SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.051 mW/g



0 dB = 0.051mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_ Main antenna _CH62**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5310 MHz;
Medium parameters used (interpolated): $f = 5310$ MHz; $\sigma = 5.49$ mho/m; $\epsilon_r = 48.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.189 mW/g

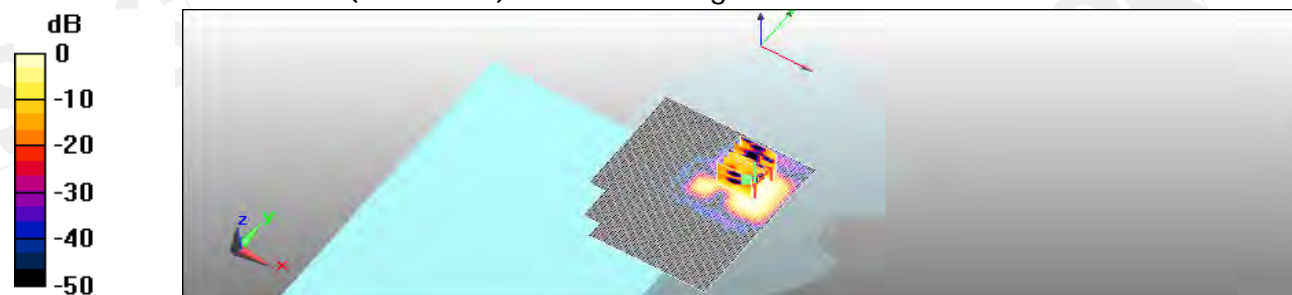
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.25 V/m; Power Drift = 0.194 dB

Peak SAR (extrapolated) = 0.298 W/kg

SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.028 mW/g

Maximum value of SAR (measured) = 0.056 mW/g



0 dB = 0.056mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_AUX antenna_CH54**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5270 MHz;
Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.42$ mho/m; $\epsilon_r = 48.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

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

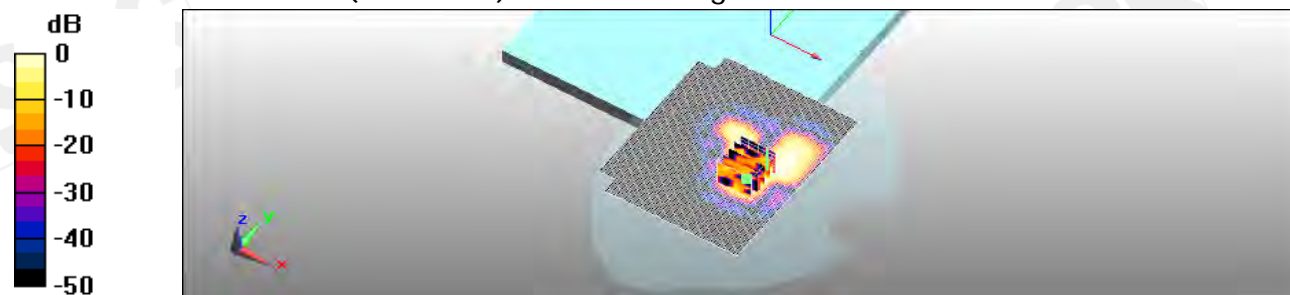
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.72 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 0.408 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.034 mW/g

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



0 dB = 0.071mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_AUX antenna_CH62

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5310 MHz;
Medium parameters used (interpolated): $f = 5310$ MHz; $\sigma = 5.49$ mho/m; $\epsilon_r = 48.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.210 mW/g

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.26 V/m; Power Drift = -0.102 dB

Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.044 mW/g

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



0 dB = 0.094mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_ Main antenna _CH102**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5510 MHz;
Medium parameters used (interpolated): $f = 5510$ MHz; $\sigma = 5.77$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.080 mW/g

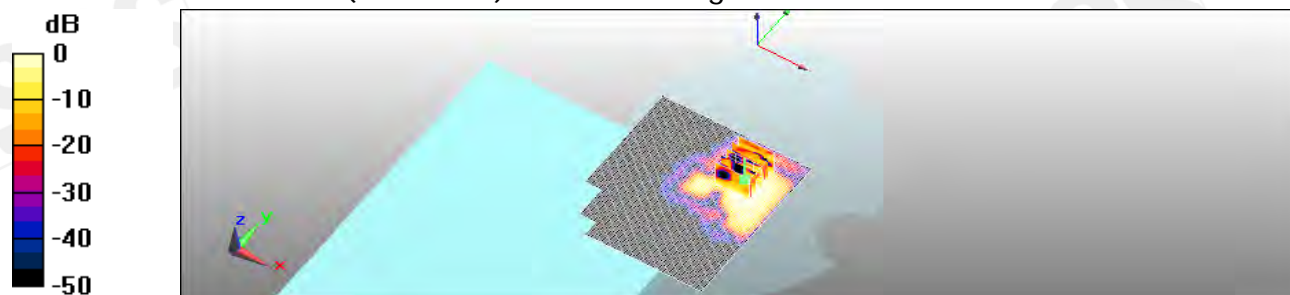
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.45 V/m; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 0.359 W/kg

SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.068 mW/g



0 dB = 0.068mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_ Main antenna _CH118

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5590 MHz;
Medium parameters used (interpolated): $f = 5590$ MHz; $\sigma = 5.89$ mho/m; $\epsilon_r = 47$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.047 mW/g

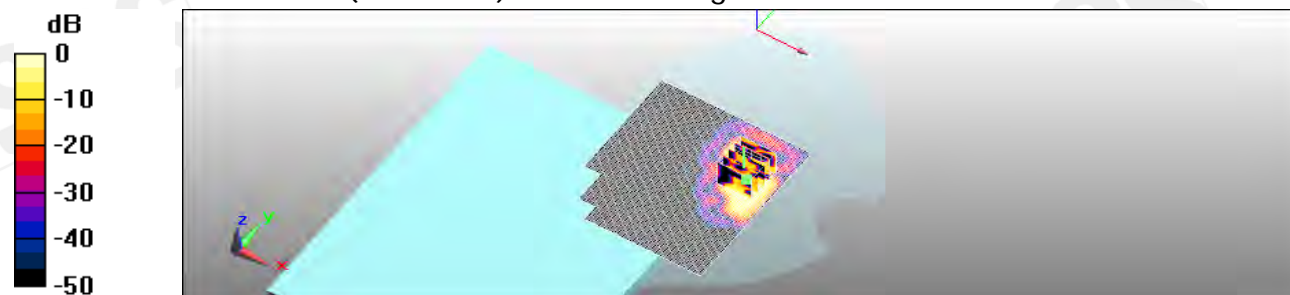
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.06 V/m; Power Drift = -0.114 dB

Peak SAR (extrapolated) = 0.263 W/kg

SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.021 mW/g

Maximum value of SAR (measured) = 0.051 mW/g



0 dB = 0.051mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_ Main antenna _CH134

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5670 MHz;
Medium parameters used (interpolated): $f = 5670$ MHz; $\sigma = 6.02$ mho/m; $\epsilon_r = 46.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.066 mW/g

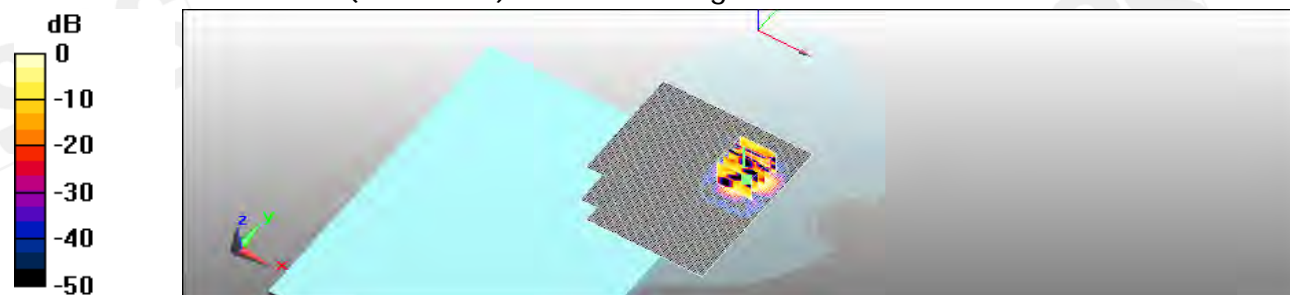
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.54 V/m; Power Drift = 0.147 dB

Peak SAR (extrapolated) = 0.218 W/kg

SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.018 mW/g

Maximum value of SAR (measured) = 0.037 mW/g



0 dB = 0.037mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_AUX antenna_CH102**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5510 MHz;
Medium parameters used (interpolated): $f = 5510$ MHz; $\sigma = 5.77$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.337 mW/g

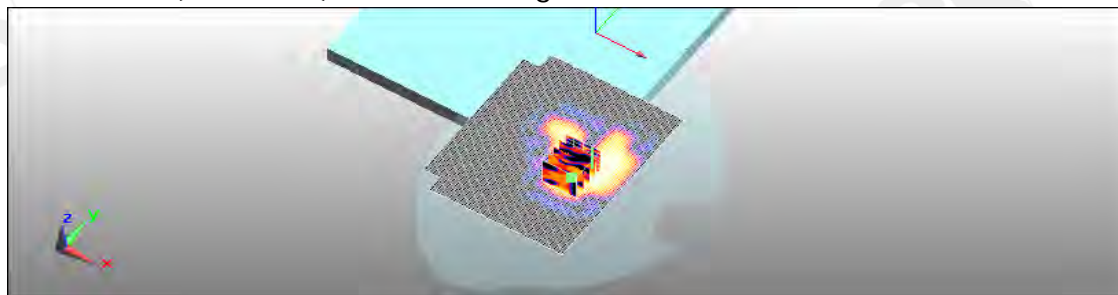
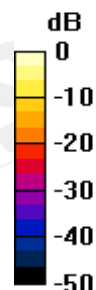
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.53 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 0.749 W/kg

SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.068 mW/g

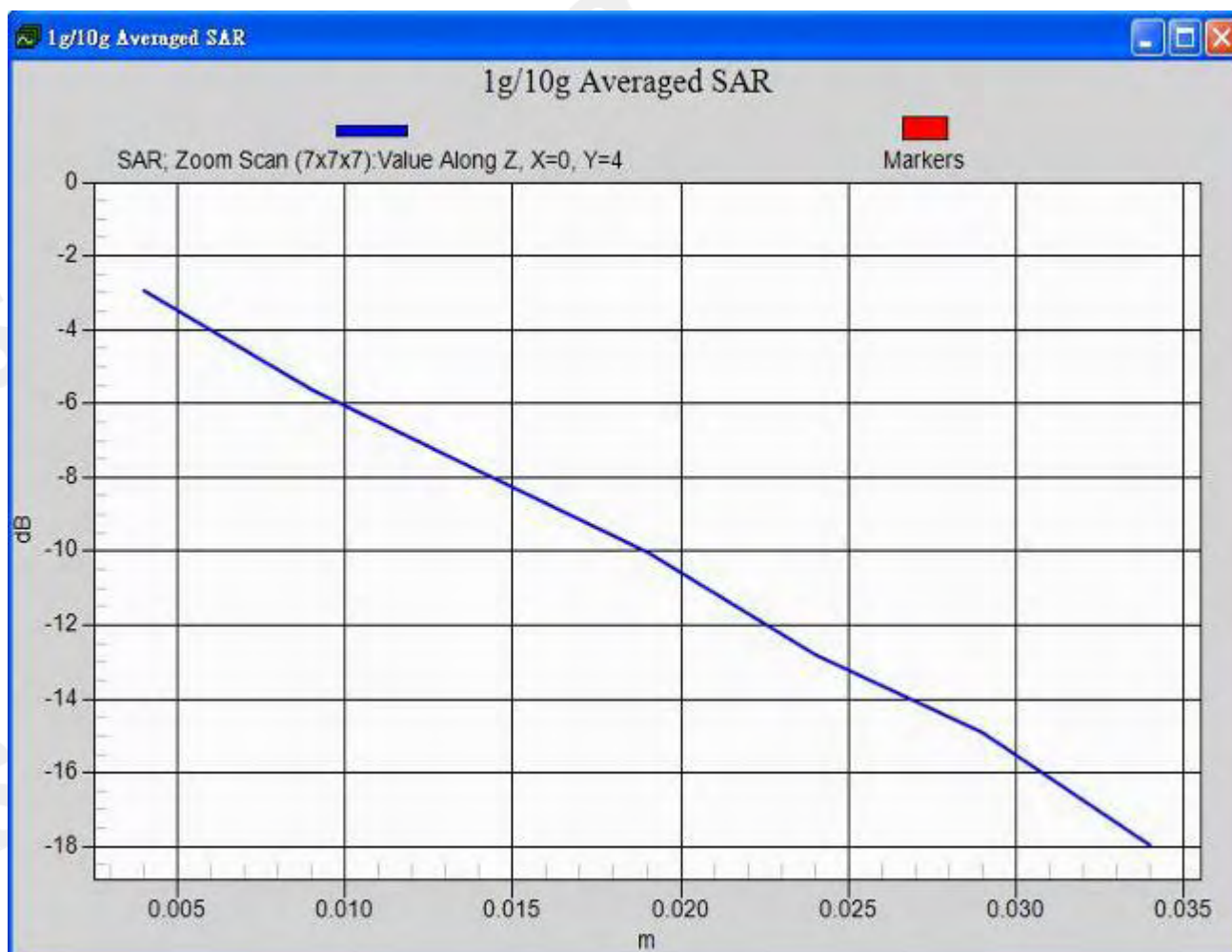
Maximum value of SAR (measured) = 0.162 mW/g



0 dB = 0.162mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_AUX antenna_CH118

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5590 MHz;
Medium parameters used (interpolated): $f = 5590$ MHz; $\sigma = 5.89$ mho/m; $\epsilon_r = 47$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.295 mW/g

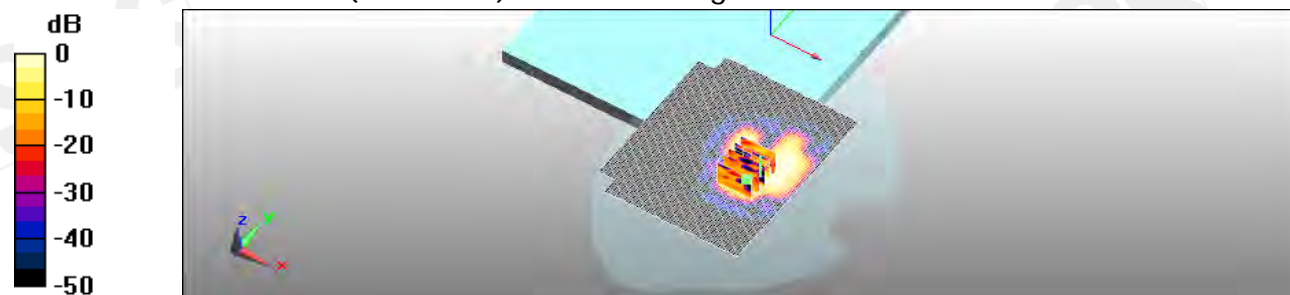
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.01 V/m; Power Drift = -0.105 dB

Peak SAR (extrapolated) = 0.760 W/kg

SAR(1 g) = 0.163 mW/g; SAR(10 g) = 0.065 mW/g

Maximum value of SAR (measured) = 0.139 mW/g



0 dB = 0.139mW/g

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Date: 2010/11/27

Body_WLAN802.11n(40M)_AUX antenna_CH134**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5670 MHz;
Medium parameters used (interpolated): $f = 5670$ MHz; $\sigma = 6.02$ mho/m; $\epsilon_r = 46.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.230 mW/g

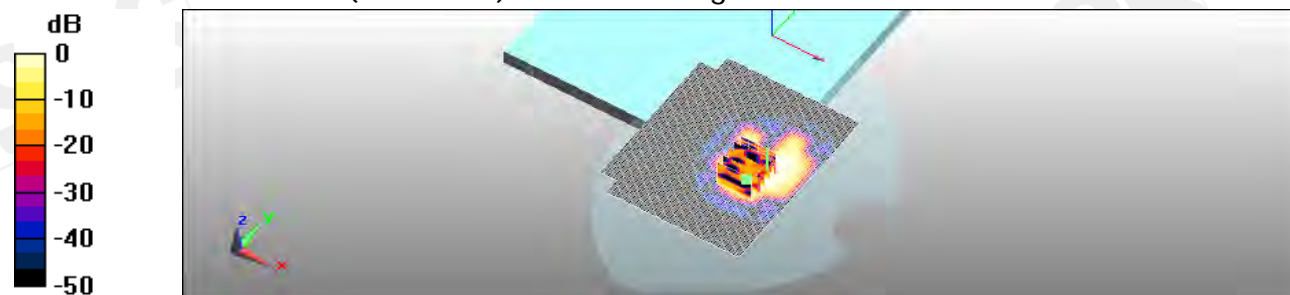
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.49 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 0.706 W/kg

SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.060 mW/g

Maximum value of SAR (measured) = 0.128 mW/g



0 dB = 0.128mW/g

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Date: 2010/11/07

Body_WLAN802.11n(40M)_Main Antenna_CH151

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5755 MHz;
Medium parameters used: $f = 5755 \text{ MHz}$; $\sigma = 6.13 \text{ mho/m}$; $\epsilon_r = 46.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

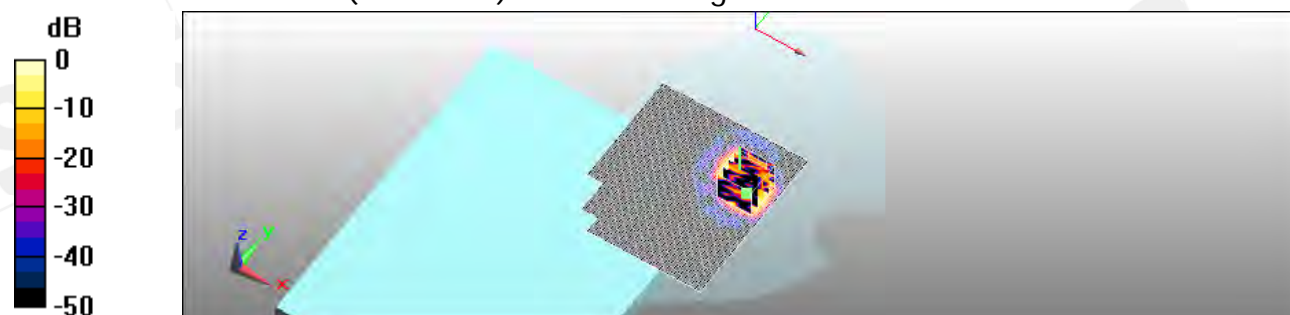
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.61 V/m ; Power Drift = 0.185 dB

Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.053 mW/g ; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.047 mW/g



0 dB = 0.047mW/g

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Date: 2010/11/07

Body_WLAN802.11n(40M)_Main Antenna_CH159**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5795 MHz;

Medium parameters used: $f = 5795$ MHz; $\sigma = 6.19$ mho/m; $\epsilon_r = 46.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.034 mW/g

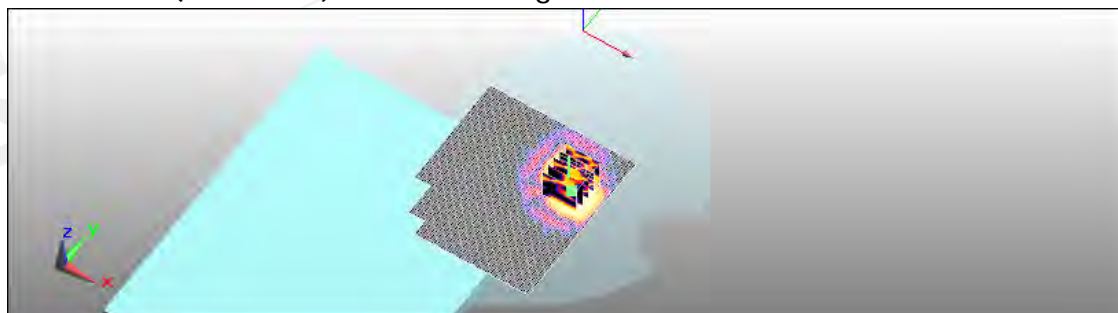
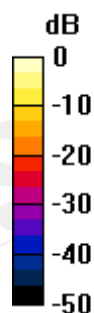
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.4 V/m; Power Drift = 0.187 dB

Peak SAR (extrapolated) = 0.197 W/kg

SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.016 mW/g

Maximum value of SAR (measured) = 0.036 mW/g



0 dB = 0.036mW/g

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Date: 2010/11/07

Body_WLAN802.11n(40M)_AUX antenna_CH151**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5755 MHz;

Medium parameters used: $f = 5755 \text{ MHz}$; $\sigma = 6.13 \text{ mho/m}$; $\epsilon_r = 46.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.033 mW/g

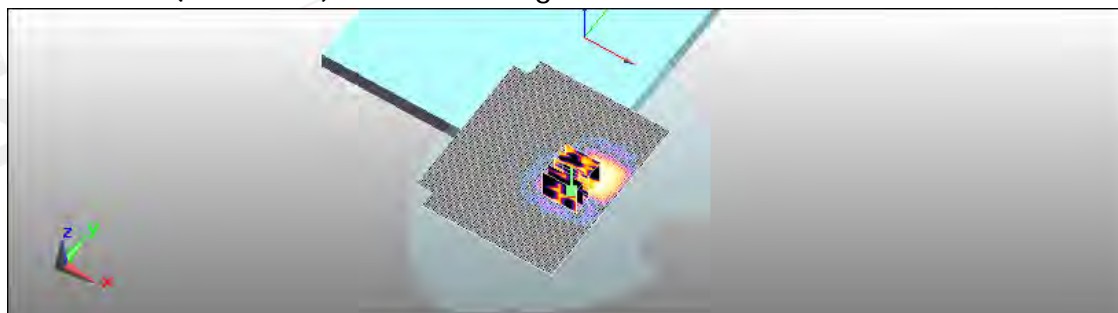
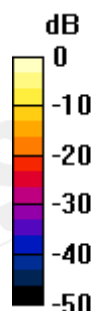
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.31 V/m; Power Drift = 0.217 dB

Peak SAR (extrapolated) = 0.125 W/kg

SAR(1 g) = 0.026 mW/g; SAR(10 g) = 0.00803 mW/g

Maximum value of SAR (measured) = 0.027 mW/g



0 dB = 0.027mW/g

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Date: 2010/11/07

Body_WLAN802.11n(40M)_AUX antenna_CH159**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5795 MHz;

Medium parameters used: $f = 5795$ MHz; $\sigma = 6.19$ mho/m; $\epsilon_r = 46.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.034 mW/g

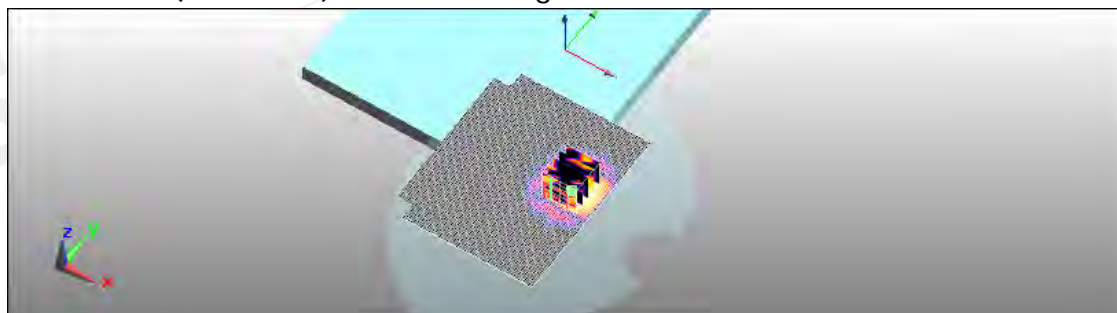
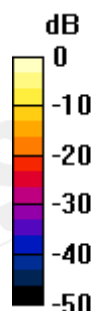
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.07 V/m; Power Drift = 0.123 dB

Peak SAR (extrapolated) = 0.225 W/kg

SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.014 mW/g

Maximum value of SAR (measured) = 0.042 mW/g



0 dB = 0.042mW/g

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Date: 2010/11/28

Body_WLAN802.11a_ Main antenna_CH36

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5180 MHz;
Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.28 \text{ mho/m}$; $\epsilon_r = 48.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

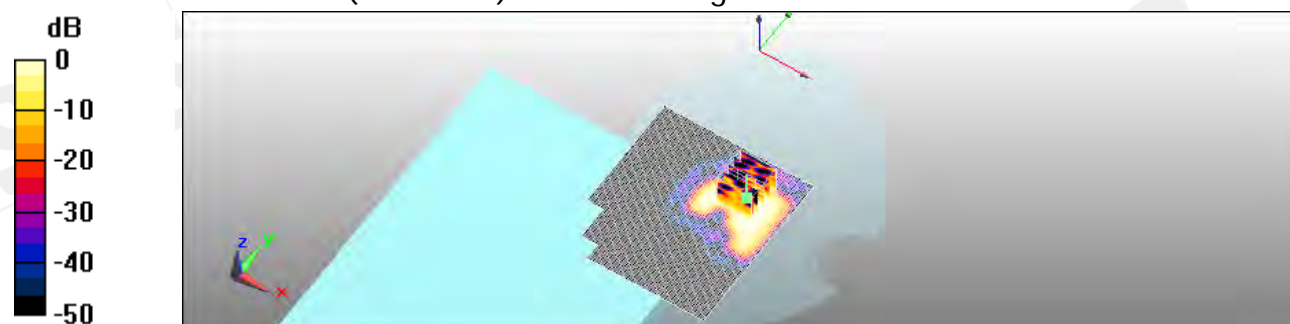
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.4 V/m ; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.075 mW/g ; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.065 mW/g



0 dB = 0.065 mW/g

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Date: 2010/11/28

Body_WLAN802.11a_ Main antenna_CH40

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5200 MHz;
Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 5.34 \text{ mho/m}$; $\epsilon_r = 48.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

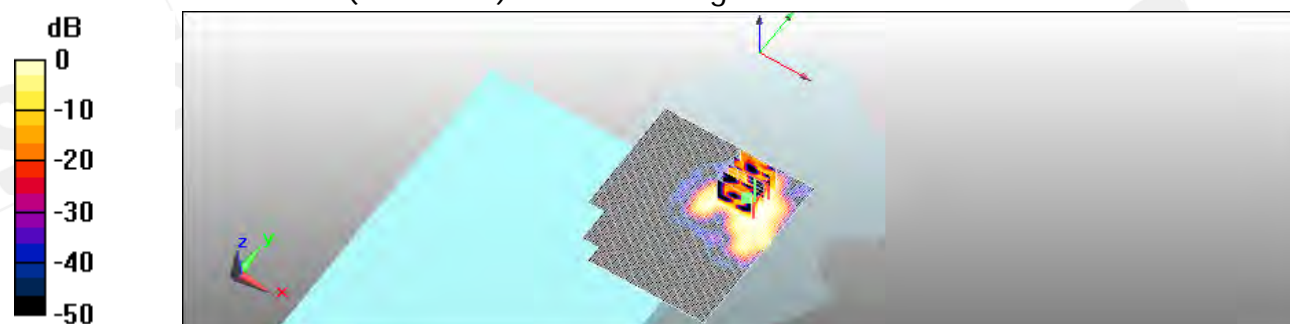
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.45 V/m ; Power Drift = -0.162 dB

Peak SAR (extrapolated) = 0.278 W/kg

SAR(1 g) = 0.067 mW/g ; SAR(10 g) = 0.028 mW/g

Maximum value of SAR (measured) = 0.060 mW/g



0 dB = 0.060 mW/g

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Date: 2010/11/28

Body_WLAN802.11a_ Main antenna_CH48

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5240 MHz;
Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.066 mW/g

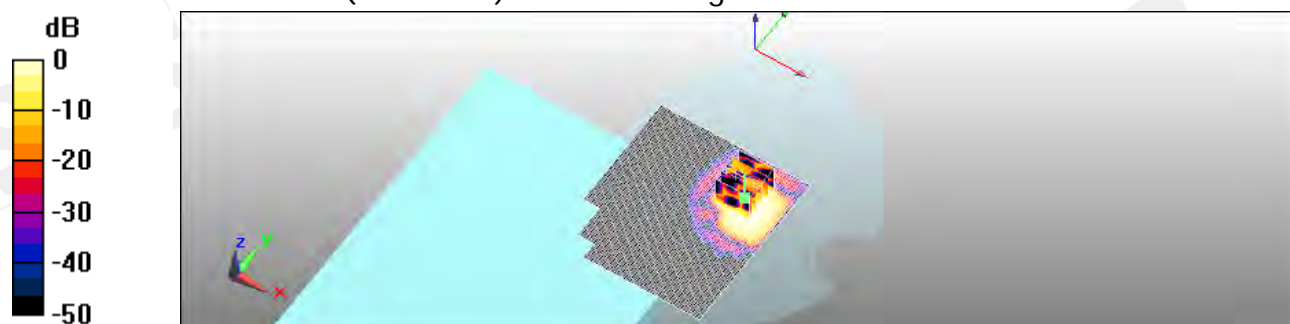
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.4 V/m ; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.313 W/kg

SAR(1 g) = 0.068 mW/g ; SAR(10 g) = 0.027 mW/g

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



0 dB = 0.059mW/g

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Date: 2010/11/28

Body_WLAN802.11a_AUX antenna_CH36

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5180 MHz;
Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.28 \text{ mho/m}$; $\epsilon_r = 48.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

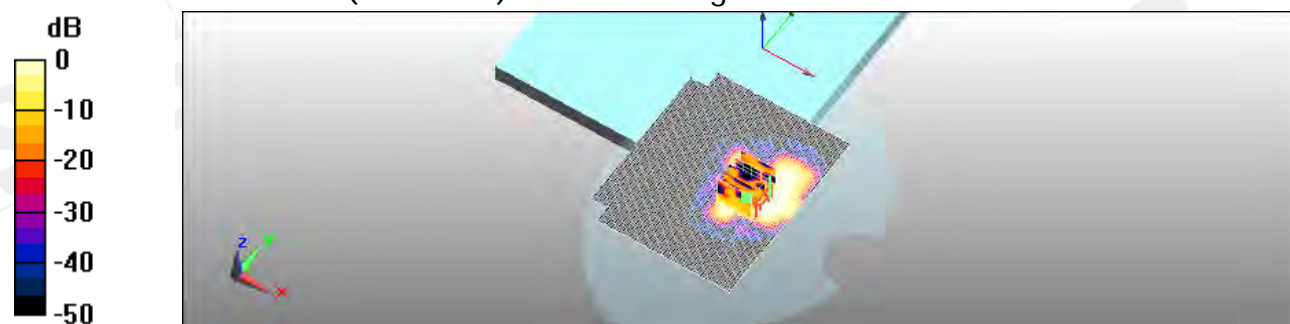
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.02 V/m ; Power Drift = -0.0055 dB

Peak SAR (extrapolated) = 0.262 W/kg

SAR(1 g) = 0.059 mW/g ; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.057 mW/g



0 dB = 0.057 mW/g

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Date: 2010/11/28

Body_WLAN802.11a_AUX antenna_CH40

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5200 MHz;
Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 5.34 \text{ mho/m}$; $\epsilon_r = 48.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.056 mW/g

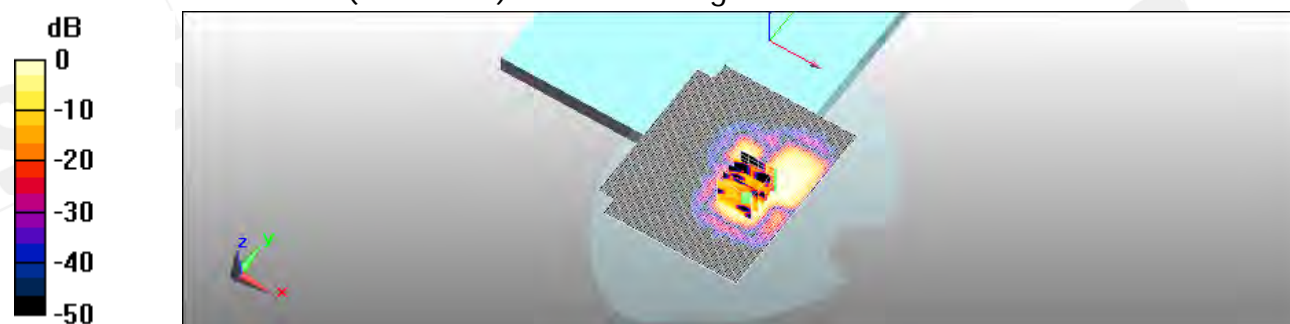
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.95 V/m ; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 0.210 W/kg

SAR(1 g) = 0.052 mW/g ; SAR(10 g) = 0.021 mW/g

Maximum value of SAR (measured) = 0.049 mW/g



0 dB = 0.049mW/g

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Date: 2010/11/28

Body_WLAN802.11a_AUX antenna_CH48

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5240 MHz;
Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 5.35 \text{ mho/m}$; $\epsilon_r = 48.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

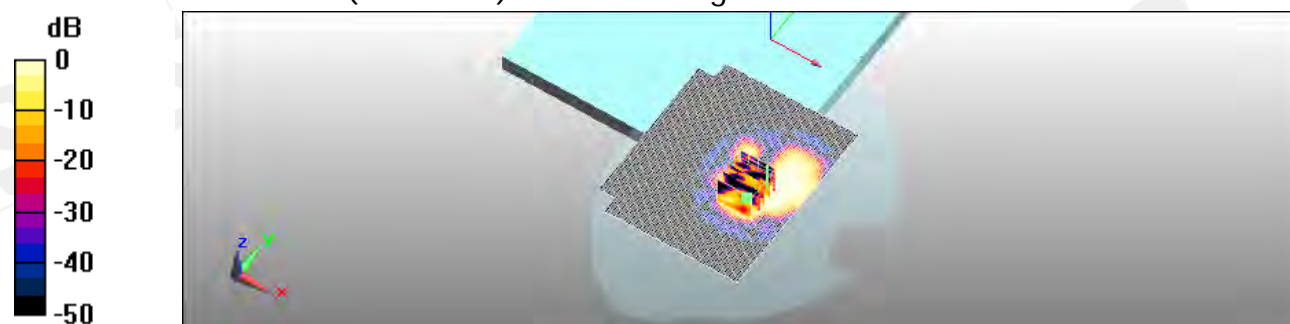
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.07 V/m ; Power Drift = -0.039 dB

Peak SAR (extrapolated) = 0.267 W/kg

SAR(1 g) = 0.061 mW/g ; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.054 mW/g



0 dB = 0.054 mW/g

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Date: 2010/11/28

Body_WLAN802.11a_ Main antenna_CH52

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5260 MHz;
Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.41 \text{ mho/m}$; $\epsilon_r = 48.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.484 mW/g

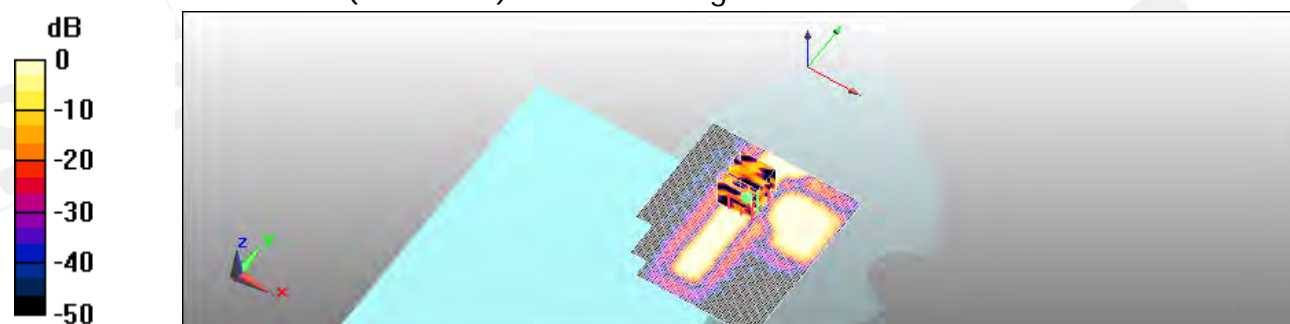
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.26 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00309 mW/g

Maximum value of SAR (measured) = 0.031 mW/g



0 dB = 0.031mW/g

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Date: 2010/11/28

Body_WLAN802.11a_ Main antenna_CH60**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5300 MHz;
Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.47 \text{ mho/m}$; $\epsilon_r = 48.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.127 mW/g

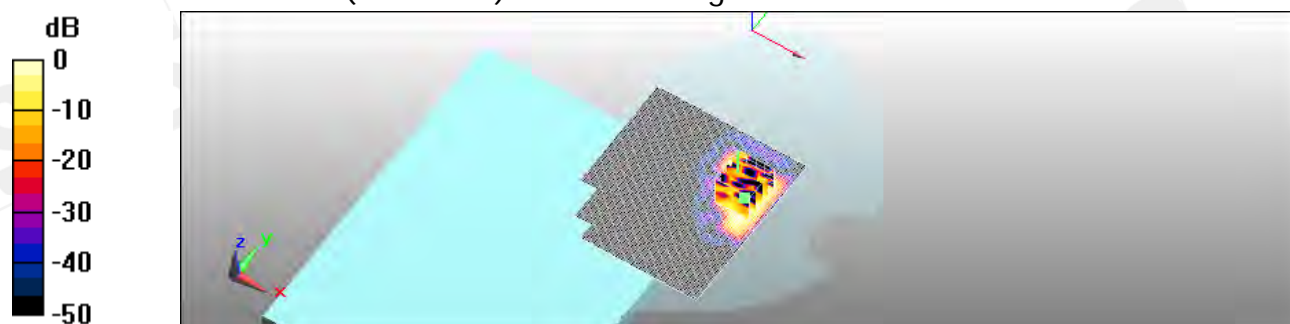
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.12 V/m ; Power Drift = -0.174 dB

Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.053 mW/g ; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.049 mW/g



0 dB = 0.049 mW/g

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Date: 2010/11/28

Body_WLAN802.11a_ Main antenna_CH64

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5320 MHz;
Medium parameters used: $f = 5320 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$; $\epsilon_r = 48.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.055 mW/g

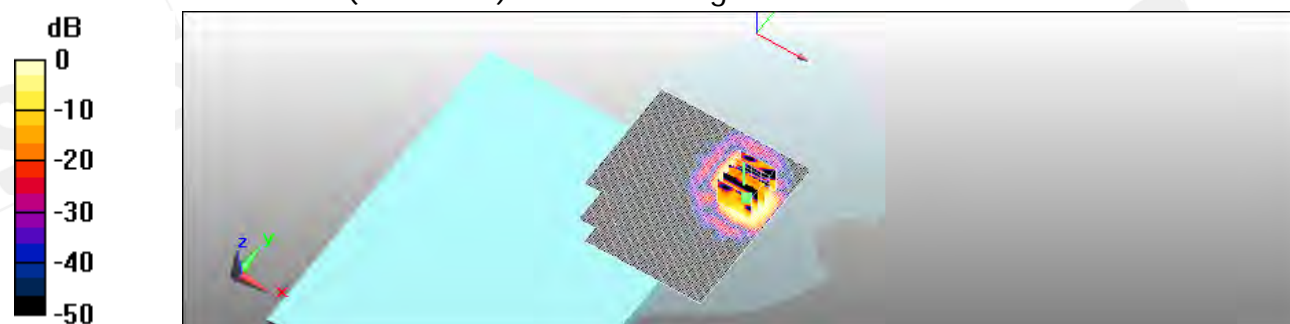
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.22 V/m ; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.065 mW/g ; SAR(10 g) = 0.026 mW/g

Maximum value of SAR (measured) = 0.053 mW/g



0 dB = 0.053mW/g

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Date: 2010/11/28

Body_WLAN802.11a_AUX antenna_CH52

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5260 MHz;
Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.41 \text{ mho/m}$; $\epsilon_r = 48.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

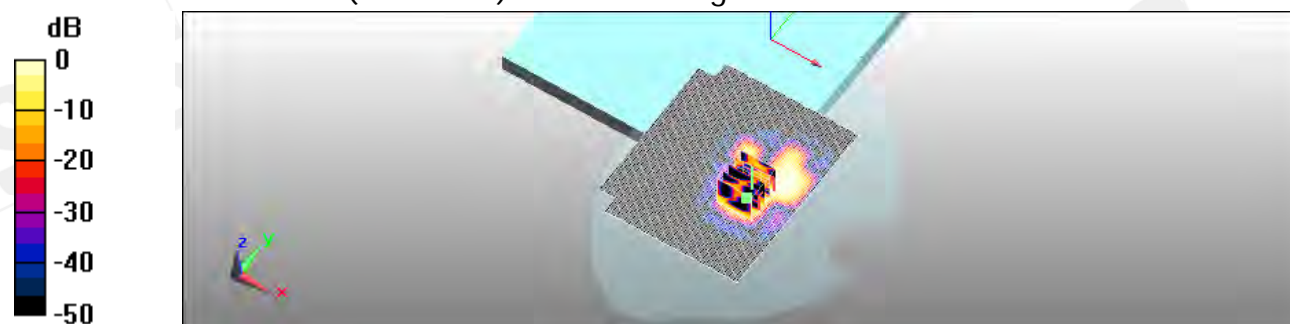
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.36 V/m ; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.383 W/kg

SAR(1 g) = 0.082 mW/g ; SAR(10 g) = 0.032 mW/g

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



0 dB = 0.070mW/g

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Date: 2010/11/28

Body_WLAN802.11a_AUX antenna_CH60**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5300 MHz;
Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.47 \text{ mho/m}$; $\epsilon_r = 48.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.239 mW/g

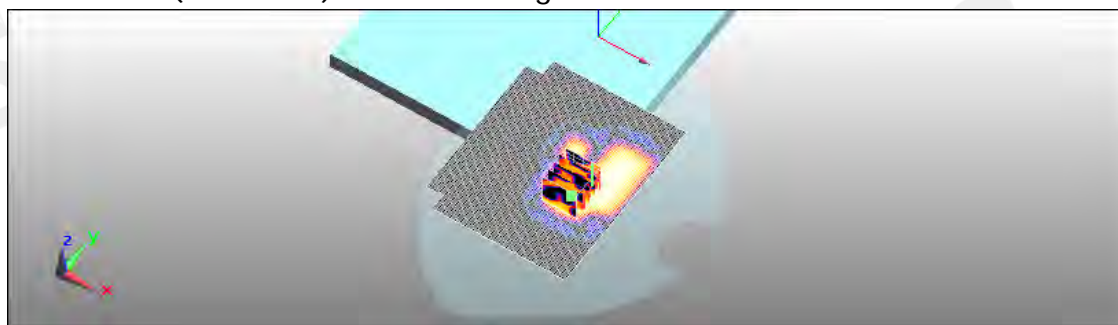
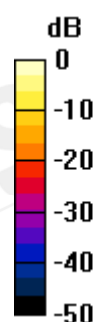
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.85 V/m ; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 0.482 W/kg

SAR(1 g) = 0.104 mW/g ; SAR(10 g) = 0.043 mW/g

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



0 dB = 0.086 mW/g

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Date: 2010/11/28

Body_WLAN802.11a_AUX antenna_CH64**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5320 MHz;
Medium parameters used: $f = 5320 \text{ MHz}$; $\sigma = 5.5 \text{ mho/m}$; $\epsilon_r = 48.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.77, 3.77, 3.77); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.247 mW/g

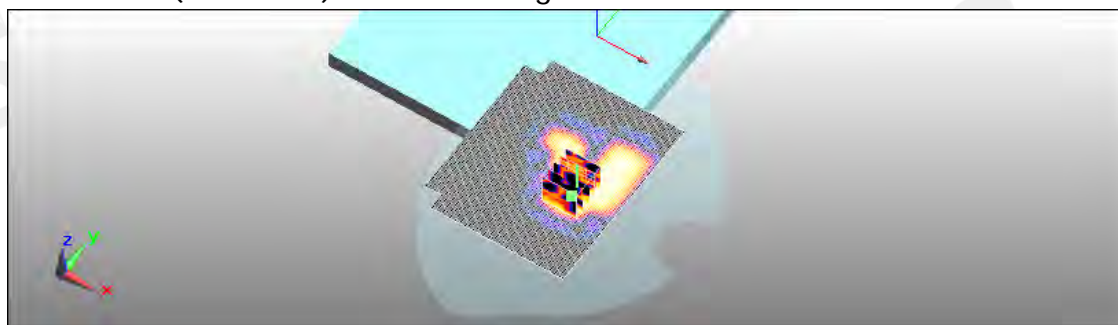
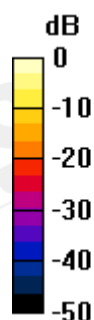
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.96 V/m ; Power Drift = -0.196 dB

Peak SAR (extrapolated) = 0.450 W/kg

SAR(1 g) = 0.100 mW/g ; SAR(10 g) = 0.040 mW/g

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



0 dB = 0.086 mW/g

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Date: 2010/11/28

Body_WLAN802.11a_ Main antenna_CH100

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5500 MHz;
Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.75 \text{ mho/m}$; $\epsilon_r = 47.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.043 mW/g

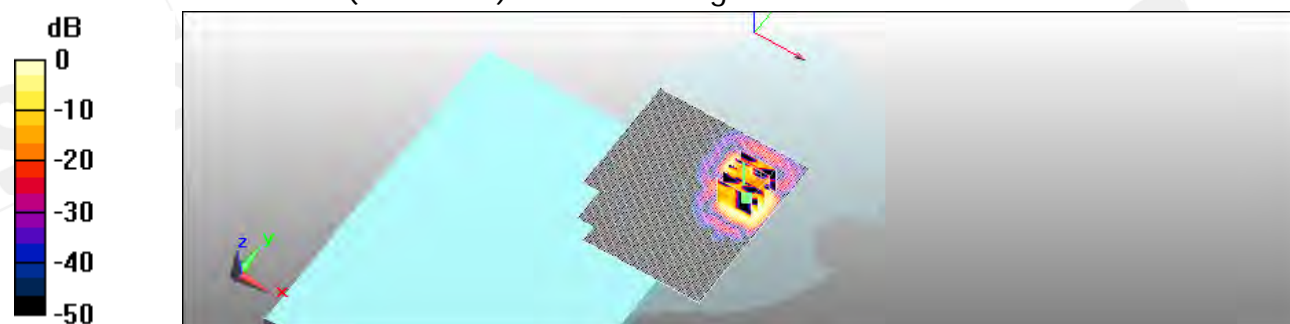
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.77 V/m ; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 0.242 W/kg

SAR(1 g) = 0.052 mW/g ; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.047 mW/g



0 dB = 0.047mW/g

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Date: 2010/11/28

Body_WLAN802.11a_ Main antenna_CH120

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5600 MHz;
Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.91 \text{ mho/m}$; $\epsilon_r = 47.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.035 mW/g

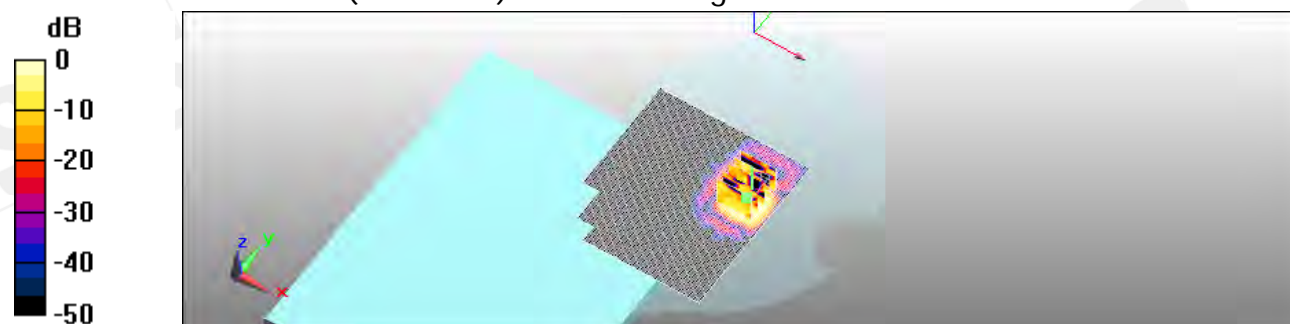
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.25 V/m ; Power Drift = 0.112 dB

Peak SAR (extrapolated) = 0.183 W/kg

SAR(1 g) = 0.039 mW/g ; SAR(10 g) = 0.014 mW/g

Maximum value of SAR (measured) = 0.035 mW/g



0 dB = 0.035mW/g

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Date: 2010/11/28

Body_WLAN802.11a_ Main antenna_CH140

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5700 MHz;
Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 6.03 \text{ mho/m}$; $\epsilon_r = 46.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.032 mW/g

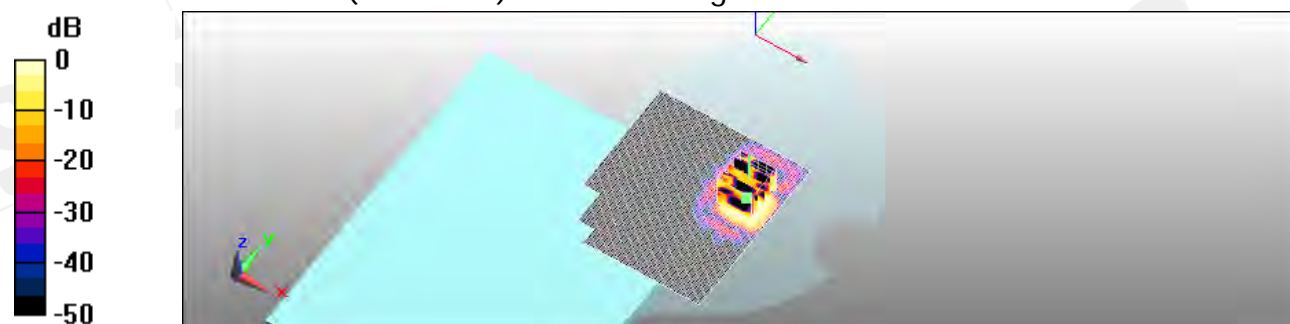
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.46 V/m ; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 0.160 W/kg

SAR(1 g) = 0.034 mW/g ; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.029 mW/g



0 dB = 0.029mW/g

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Date: 2010/11/28

Body_WLAN802.11a_AUX antenna_CH100

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5500 MHz;
Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.75 \text{ mho/m}$; $\epsilon_r = 47.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.231 mW/g

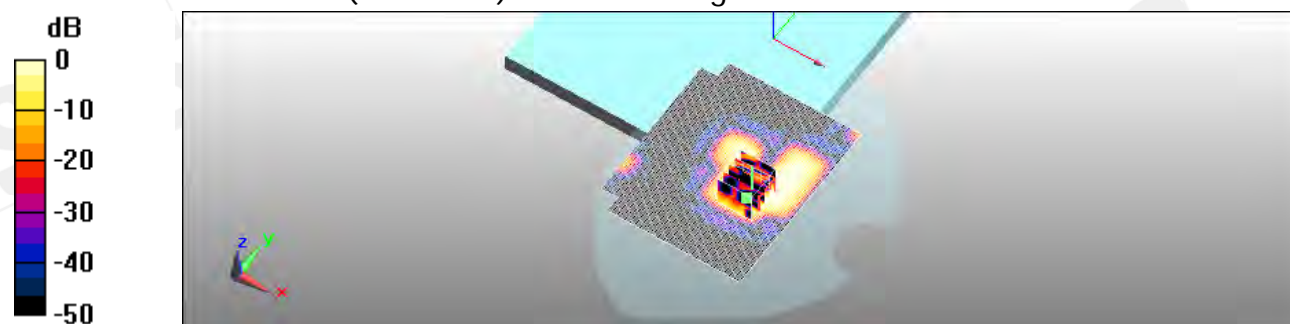
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.15 V/m ; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 0.778 W/kg

SAR(1 g) = 0.165 mW/g ; SAR(10 g) = 0.066 mW/g

Maximum value of SAR (measured) = 0.151 mW/g



0 dB = 0.151 mW/g

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Date: 2010/11/28

Body_WLAN802.11a_AUX antenna_CH120

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5600 MHz;
Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.91 \text{ mho/m}$; $\epsilon_r = 47.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.195 mW/g

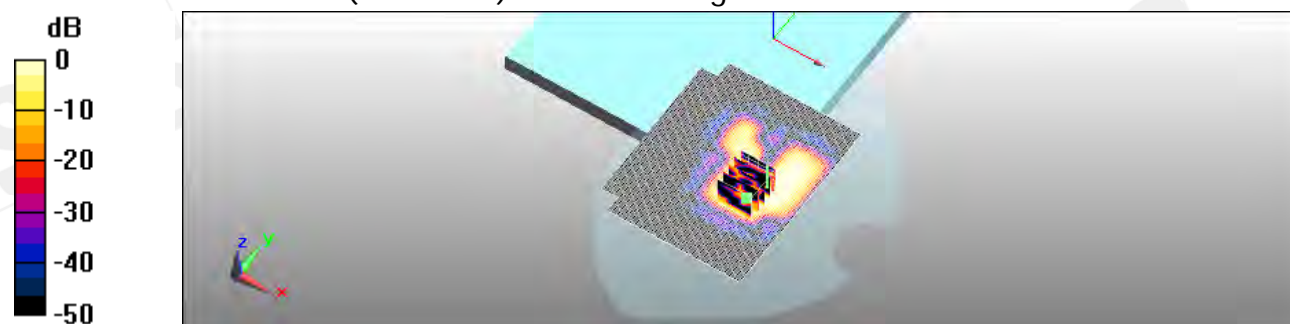
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.8 V/m ; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 0.612 W/kg

SAR(1 g) = 0.138 mW/g ; SAR(10 g) = 0.055 mW/g

Maximum value of SAR (measured) = 0.128 mW/g



0 dB = 0.128mW/g

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Date: 2010/11/28

Body_WLAN802.11a_AUX antenna_CH140

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5700 MHz;
Medium parameters used: $f = 5700 \text{ MHz}$; $\sigma = 6.03 \text{ mho/m}$; $\epsilon_r = 46.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55); Calibrated: 12/30/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.152 mW/g

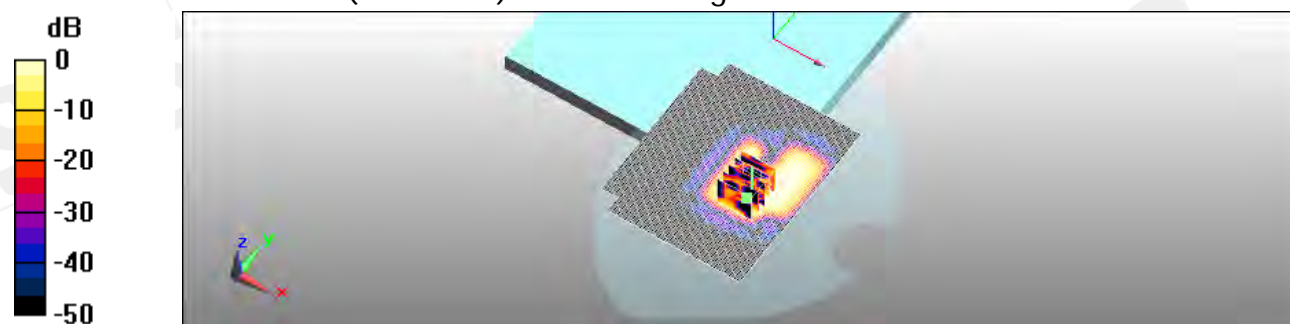
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.1 V/m ; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.114 mW/g ; SAR(10 g) = 0.046 mW/g

Maximum value of SAR (measured) = 0.105 mW/g



0 dB = 0.105mW/g

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Date: 2010/11/07

Body_WLAN802.11a_Main Antenna_CH149**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5745 MHz;

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.11 \text{ mho/m}$; $\epsilon_r = 46.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.056 mW/g

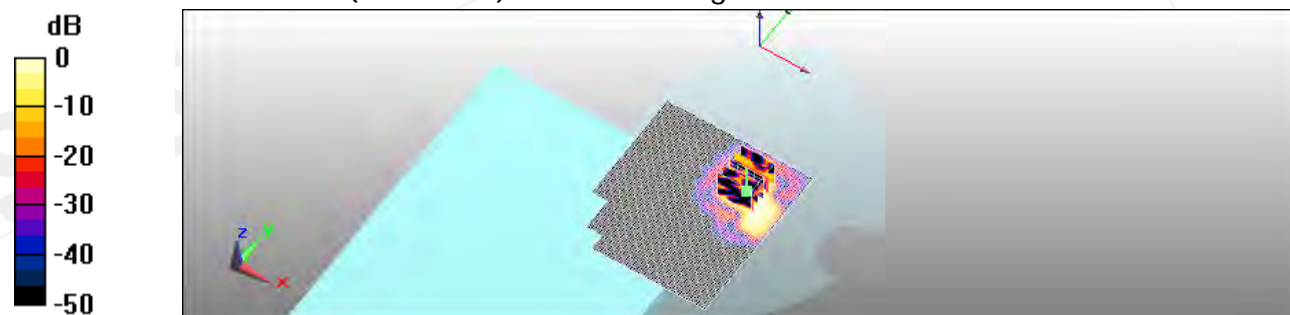
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.83 V/m; Power Drift = 0.106 dB

Peak SAR (extrapolated) = 0.282 W/kg

SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.022 mW/g

Maximum value of SAR (measured) = 0.048 mW/g



0 dB = 0.048mW/g

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Date: 2010/11/07

Body_WLAN802.11a_Main Antenna_ CH157**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5785 MHz;

Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.17 \text{ mho/m}$; $\epsilon_r = 46.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.040 mW/g

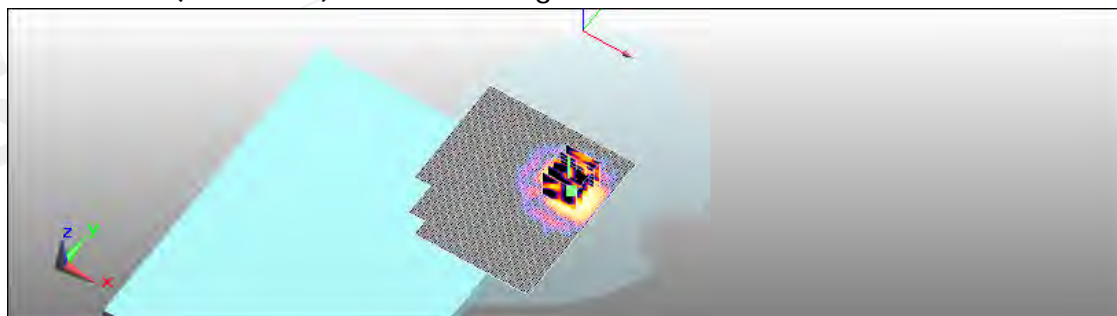
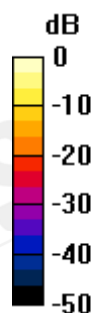
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.65 V/m; Power Drift = 0.158 dB

Peak SAR (extrapolated) = 0.245 W/kg

SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.044 mW/g



0 dB = 0.044mW/g

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Date: 2010/11/07

Body_WLAN802.11a_Main Antenna_CH165**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5825 MHz;

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.22 \text{ mho/m}$; $\epsilon_r = 46.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

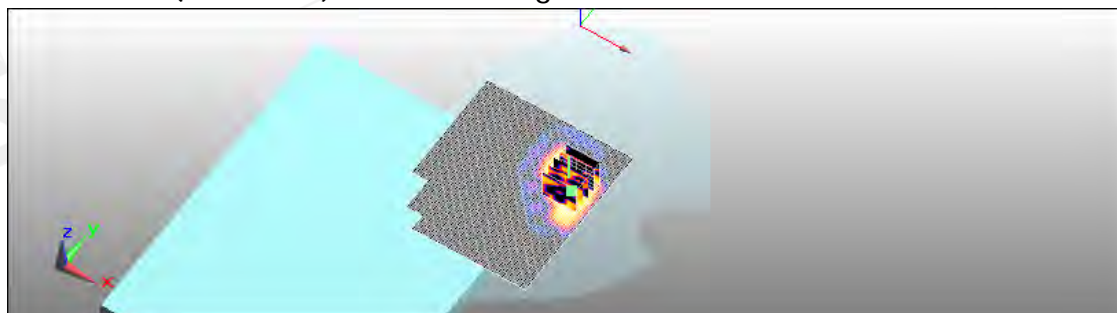
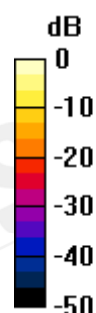
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.98 V/m; Power Drift = -0.119 dB

Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.047 mW/g



0 dB = 0.047mW/g

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Date: 2010/11/07

Body_WLAN802.11a_AUX antenna_CH149

DUT: MARIO

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5745 MHz;

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.11 \text{ mho/m}$; $\epsilon_r = 46.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.022 mW/g

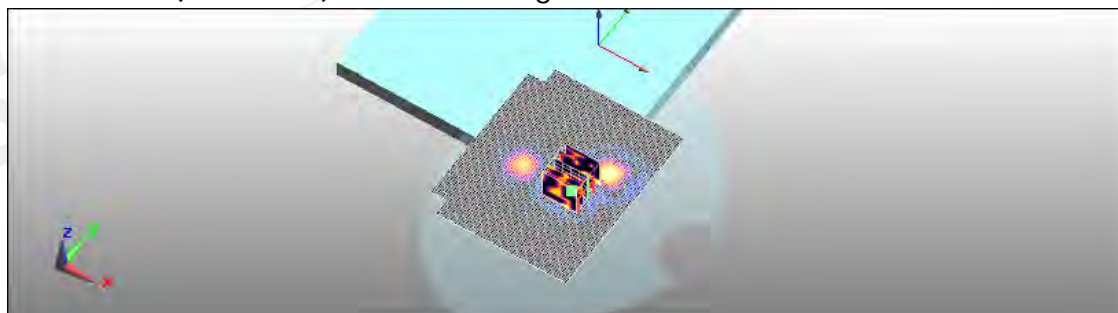
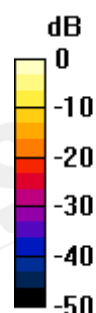
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.72 V/m; Power Drift = 0.143 dB

Peak SAR (extrapolated) = 0.117 W/kg

SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.00623 mW/g

Maximum value of SAR (measured) = 0.025 mW/g



0 dB = 0.025mW/g

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Date: 2010/11/07

Body_WLAN802.11a_AUX antenna_CH157**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5785 MHz;

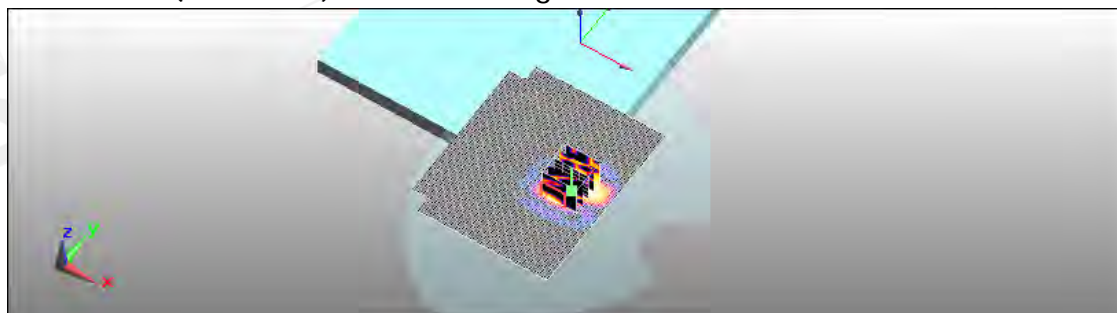
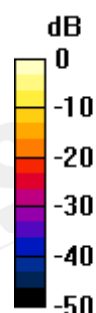
Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.17 \text{ mho/m}$; $\epsilon_r = 46.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.060 mW/g **Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 1.03 V/m ; Power Drift = 0.169 dB Peak SAR (extrapolated) = 0.164 W/kg **SAR(1 g) = 0.035 mW/g ; SAR(10 g) = 0.012 mW/g** Maximum value of SAR (measured) = 0.031 mW/g 0 dB = 0.031mW/g

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Date: 2010/11/07

Body_WLAN802.11a_AUX antenna_CH165**DUT: MARIO**

Communication System: WLAN 802.11n/a(5G) FCC; Frequency: 5825 MHz;

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.22 \text{ mho/m}$; $\epsilon_r = 46.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/Body/Area Scan (101x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.029 mW/g

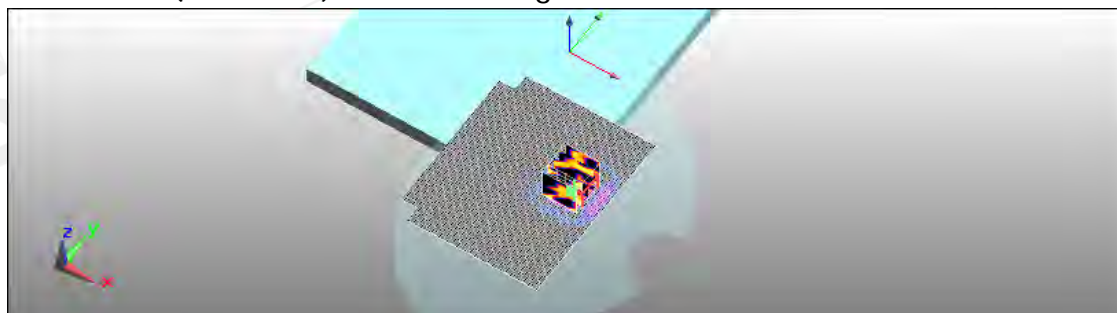
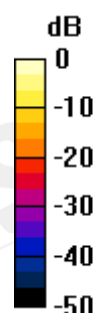
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.04 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.079 W/kg

SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00511 mW/g

Maximum value of SAR (measured) = 0.023 mW/g



0 dB = 0.023mW/g

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5. SAR System Performance Verification

Date: 2010/11/05

DUT: Dipole 2450 MHz

Communication System: CW; Frequency: 2450 MHz;

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(6.95, 6.95, 6.95); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/d=10mm, Pin=250mW, dist=4mm: Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 16.4 mW/g

Configuration/d=10mm, Pin=250mW, dist=4mm: Measurement grid:

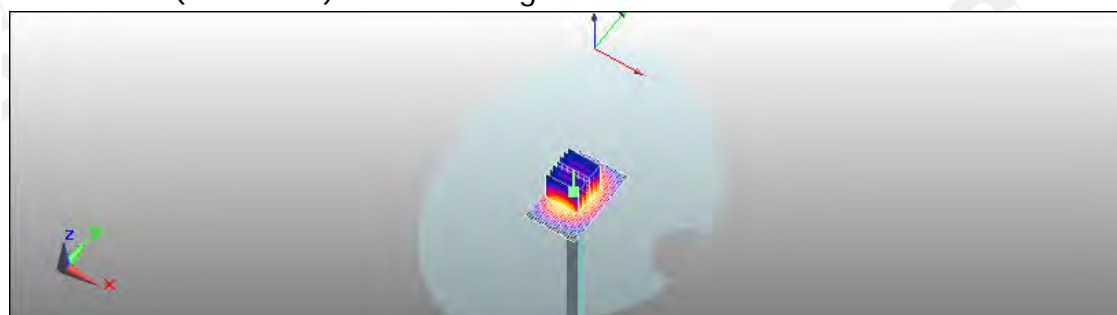
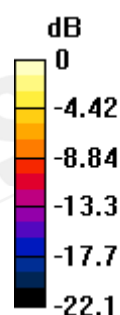
dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.9 V/m; Power Drift = 0.00435 dB

Peak SAR (extrapolated) = 29.3 W/kg

SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.35 mW/g

Maximum value of SAR (measured) = 15.4 mW/g



0 dB = 15.4mW/g

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Date: 2010/11/07

DUT: Dipole 5800MHz

Communication System: CW; Frequency: 5800 MHz;

Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.19 \text{ mho/m}$; $\epsilon_r = 46.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.8, 3.8, 3.8); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/d=10mm, Pin=250mW, dist=4mm: Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 11.5 mW/g

Configuration/d=10mm, Pin=250mW, dist=4mm: Measurement grid:

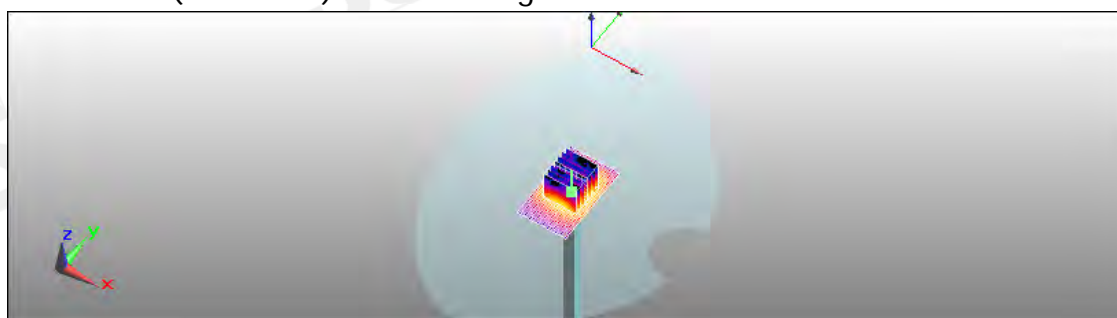
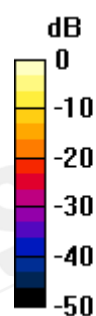
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 45 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 30.4 W/kg

SAR(1 g) = 7.04 mW/g; SAR(10 g) = 2.11 mW/g

Maximum value of SAR (measured) = 8.62 mW/g



0 dB = 8.62mW/g

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Date: 2010/11/27

DUT: Dipole 5200MHz

Communication System: CW; Frequency: 5200 MHz;

Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 5.3 \text{ mho/m}$; $\epsilon_r = 48.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.99, 3.99, 3.99); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/d=10mm, Pin=250mW, dist=4mm: Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 13.1 mW/g

Configuration/d=10mm, Pin=250mW, dist=4mm: Measurement grid:

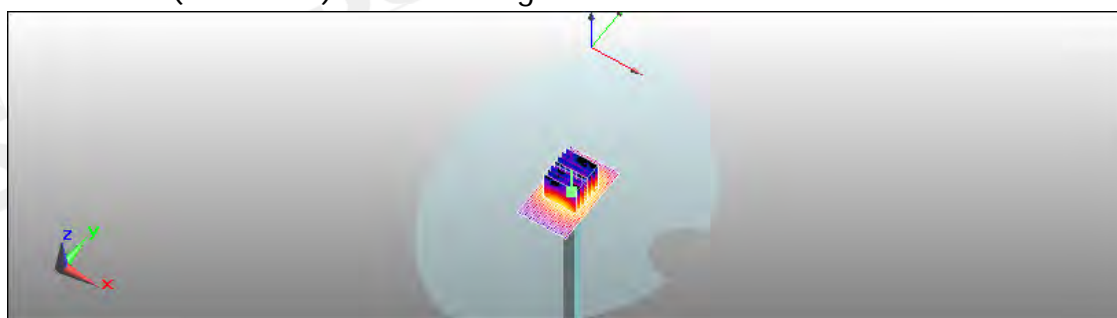
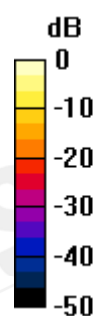
dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.2 V/m; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 31.7 W/kg

SAR(1 g) = 8.07 mW/g; SAR(10 g) = 3.15 mW/g

Maximum value of SAR (measured) = 9.64 mW/g



0 dB = 9.64mW/g

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Date: 2010/11/28

DUT: Dipole 5500MHz

Communication System: CW; Frequency: 5500 MHz;

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.76$ mho/m; $\epsilon_r = 47.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3703; ConvF(3.55, 3.55, 3.55+); Calibrated: 2009/12/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2010/5/20
- Phantom: SAM2; Type: SAM;
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Configuration/d=10mm, Pin=250mW, dist=4mm: Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 13.4 mW/g

Configuration/d=10mm, Pin=250mW, dist=4mm: Measurement grid:

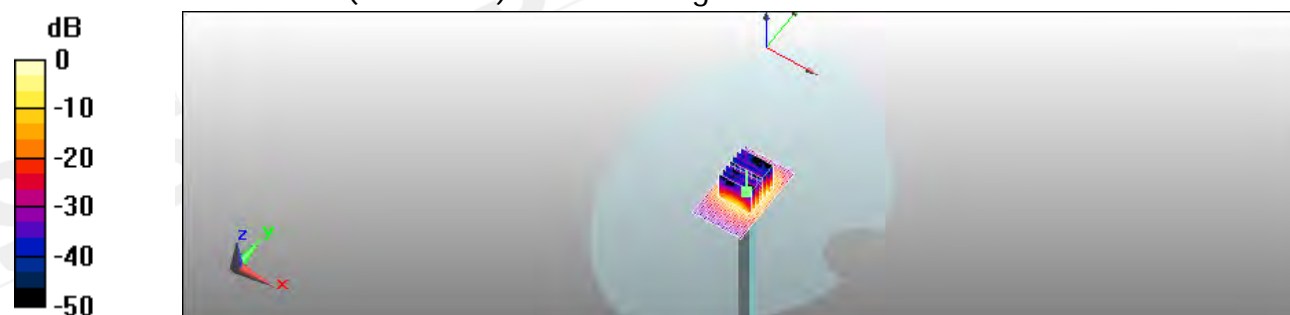
dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.1 V/m; Power Drift = -0.172 dB

Peak SAR (extrapolated) = 32.6 W/kg

SAR(1 g) = 8.46 mW/g; SAR(10 g) = 4.16 mW/g

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



0 dB = 9.65mW/g

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6. DAE & Probe Calibration certificate

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



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The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Client **SGS-TW (Auden)**

Certificate No: **DAE4-856_May10**

CALIBRATION CERTIFICATE

Object	DAE4 - SD 000 D04 BJ - SN: 856		
Calibration procedure(s)	QA CAL-06.v21 Calibration procedure for the data acquisition electronics (DAE)		
Calibration date:	May 20, 2010		
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&E critical for calibration)			
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Kethley Multimeter Type 2001	SN: 0810278	1-Oct-09 (No: 9055)	Oct-10
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Calibrator Box V1.1	SE UMS 006 AB 1004	05-Jun-09 (in house check)	In house check: Jun-10
Calibrated by:	Name Dominique Steffen	Function Technician	Signature
Approved by:	Fin Bernholt	R&D Director	
			Issued: May 20, 2010
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

Certificate No: DAE4-856_May10

Page 1 of 5

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Accreditation No.: SCS 108

Client **SGS (Auden)**

Certificate No: **EX3-3703_Dec09**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3703**

Calibration procedure(s) **QA CAL-01.v6, QA CAL-14.v3, QA CAL-23.v3 and QA CAL-25.v2
Calibration procedure for dosimetric E-field probes**

Calibration date: **December 30, 2009**

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 $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	1-Apr-09 (No. 217-01030)	Apr-10
Power sensor E4412A	MY41495277	1-Apr-09 (No. 217-01030)	Apr-10
Power sensor E4412A	MY41498087	1-Apr-09 (No. 217-01030)	Apr-10
Reference 3 dB Attenuator	SN: S5054 (3c)	31-Mar-09 (No. 217-01026)	Mar-10
Reference 20 dB Attenuator	SN: S5086 (20b)	31-Mar-09 (No. 217-01028)	Mar-10
Reference 30 dB Attenuator	SN: S5129 (30b)	31-Mar-09 (No. 217-01027)	Mar-10
Reference Probe ES3DV2	SN: 3013	2-Jan-09 (No. ES3-3013_Jan09)	Jan-10
DAE4	SN: 660	29-Sep-09 (No. DAE4-660_Sep09)	Sep-10

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-09)	In house check: Oct-10

Calibrated by:	Name Katja Pokovic	Function Technical Manager	Signature
Approved by:	Name Niels Kuster	Function Quality Manager	Signature

Issued: December 30, 2009

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Certificate No: EX3-3703_Dec09

Page 1 of 11

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Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C	modulation dependent linearization parameters
Polarization ϕ	ϕ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

- 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:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not effect the E^2 -field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z}** = NORM_{x,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.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; VR_{x,y,z}**: A, B, C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ 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 NORM_{x,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.

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EX3DV4 SN:3703

December 30, 2009

Probe EX3DV4

SN:3703

Manufactured: July 21, 2009
Calibrated: December 30, 2009

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

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EX3DV4 SN:3703

December 30, 2009

DASY - Parameters of Probe: EX3DV4 SN:3703

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.52	0.52	0.53	± 10.1%
DCP (mV) ^B	92.6	88.0	91.6	

Modulation Calibration Parameters

UID	Communication System Name	PAR		A dB	B dBuV	C	VR mV	Unc ^E (k=2)
10000	CVW	0.00	X	0.00	0.00	1.00	300	± 1.5%
			Y	0.00	0.00	1.00	300	
			Z	0.00	0.00	1.00	300	

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%.

^A The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the maximum deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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EX3DV4 SN:3703

December 30, 2009

DASY - Parameters of Probe: EX3DV4 SN:3703

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz]	Validity [MHz] ^c	Permittivity	Conductivity	ConvF X	ConvF Y	ConvF Z	Alpha	Depth Unc (k=2)
835	± 50 / ± 100	41.5 ± 5%	0.90 ± 5%	8.87	8.87	8.87	0.58	0.66 ± 11.0%
900	± 50 / ± 100	41.5 ± 5%	0.97 ± 5%	8.62	8.62	8.62	0.52	0.68 ± 11.0%
1750	± 50 / ± 100	40.1 ± 5%	1.37 ± 5%	7.73	7.73	7.73	0.67	0.64 ± 11.0%
1900	± 50 / ± 100	40.0 ± 5%	1.40 ± 5%	7.44	7.44	7.44	0.67	0.66 ± 11.0%
2000	± 50 / ± 100	40.0 ± 5%	1.40 ± 5%	7.26	7.26	7.26	0.70	0.65 ± 11.0%
2450	± 50 / ± 100	39.2 ± 5%	1.80 ± 5%	6.80	6.80	6.80	0.43	0.83 ± 11.0%
5200	± 50 / ± 100	36.0 ± 5%	4.66 ± 5%	4.68	4.68	4.68	0.38	1.80 ± 13.1%
5300	± 50 / ± 100	35.9 ± 5%	4.76 ± 5%	4.36	4.36	4.36	0.35	1.80 ± 13.1%
5600	± 50 / ± 100	35.5 ± 5%	5.07 ± 5%	4.01	4.01	4.01	0.45	1.80 ± 13.1%
5800	± 50 / ± 100	35.3 ± 5%	5.27 ± 5%	3.95	3.95	3.95	0.50	1.80 ± 13.1%

^c 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.

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EX3DV4 SN:3703

December 30, 2009

DASY - Parameters of Probe: EX3DV4 SN:3703

Calibration Parameter Determined in Body Tissue Simulating Media

f [MHz]	Validity [MHz] ^C	Permittivity	Conductivity	ConvF X	ConvF Y	ConvF Z	Alpha	Depth Unc (k=2)
835	± 50 / ± 100	55.2 ± 5%	0.97 ± 5%	8.74	8.74	8.74	0.65	0.72 ± 11.0%
900	± 50 / ± 100	55.0 ± 5%	1.05 ± 5%	8.58	8.58	8.58	0.64	0.72 ± 11.0%
1750	± 50 / ± 100	53.4 ± 5%	1.49 ± 5%	7.75	7.75	7.75	0.66	0.66 ± 11.0%
1900	± 50 / ± 100	53.3 ± 5%	1.52 ± 5%	7.26	7.26	7.26	0.54	0.74 ± 11.0%
2000	± 50 / ± 100	53.3 ± 5%	1.52 ± 5%	7.28	7.28	7.28	0.49	0.78 ± 11.0%
2450	± 50 / ± 100	52.7 ± 5%	1.95 ± 5%	6.95	6.95	6.95	0.37	0.87 ± 11.0%
5200	± 50 / ± 100	49.0 ± 5%	5.30 ± 5%	3.99	3.99	3.99	0.55	1.90 ± 13.1%
5300	± 50 / ± 100	48.5 ± 5%	5.42 ± 5%	3.77	3.77	3.77	0.55	1.90 ± 13.1%
5600	± 50 / ± 100	48.5 ± 5%	5.77 ± 5%	3.55	3.55	3.55	0.60	1.90 ± 13.1%
5800	± 50 / ± 100	48.2 ± 5%	6.00 ± 5%	3.80	3.80	3.80	0.60	1.90 ± 13.1%

^C 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.

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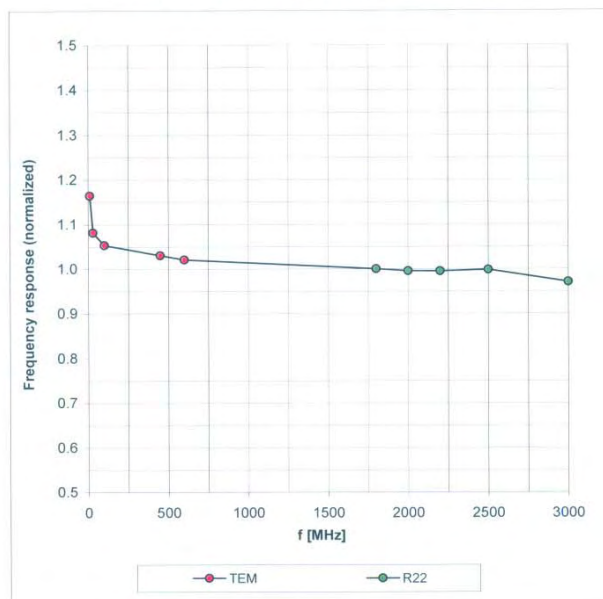
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EX3DV4 SN:3703

December 30, 2009

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

Certificate No: EX3-3703_Dec09

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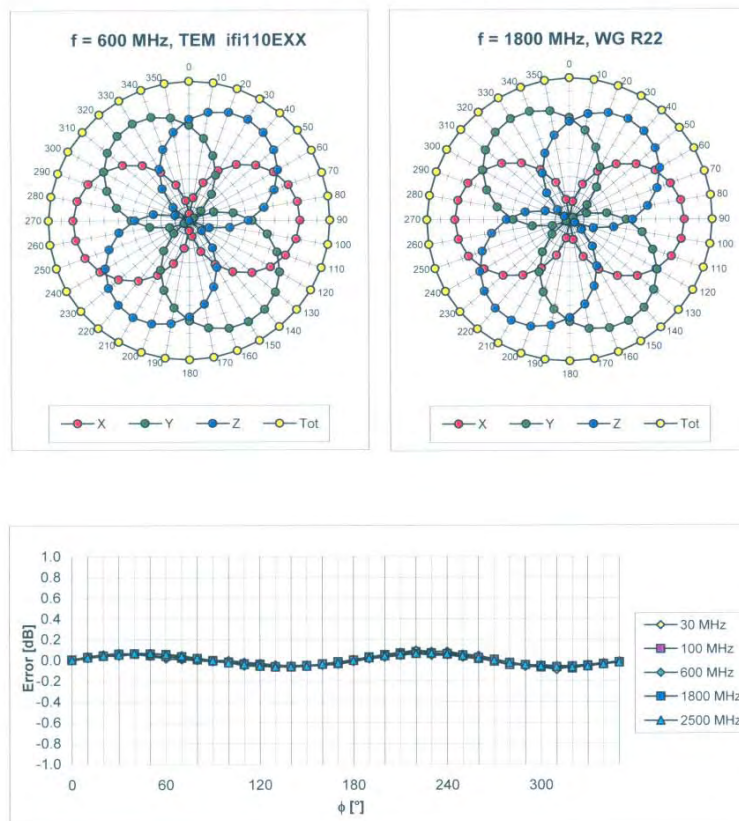
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EX3DV4 SN:3703

December 30, 2009

Receiving Pattern (ϕ), $\theta = 0^\circ$



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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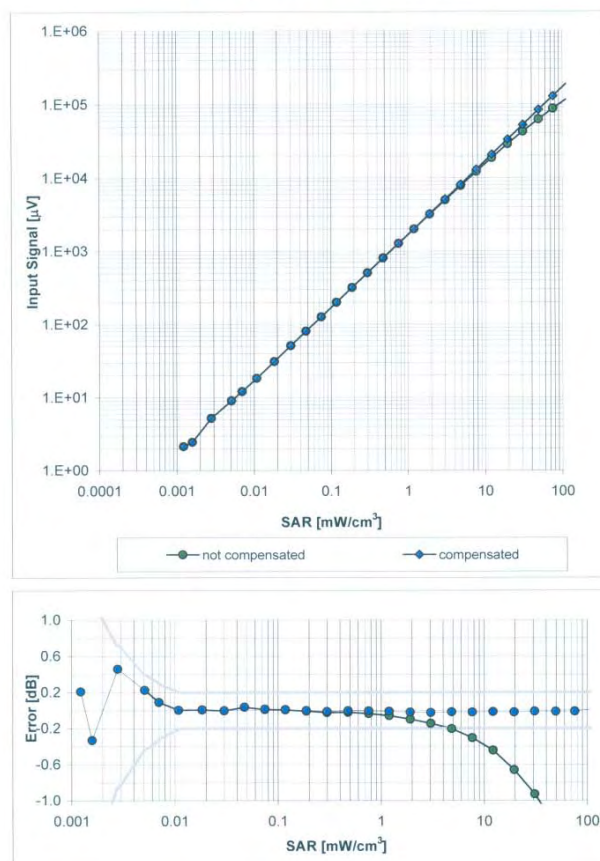
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December 30, 2009

Dynamic Range f(SAR_{head}) (Waveguide R22, f = 1800 MHz)



Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

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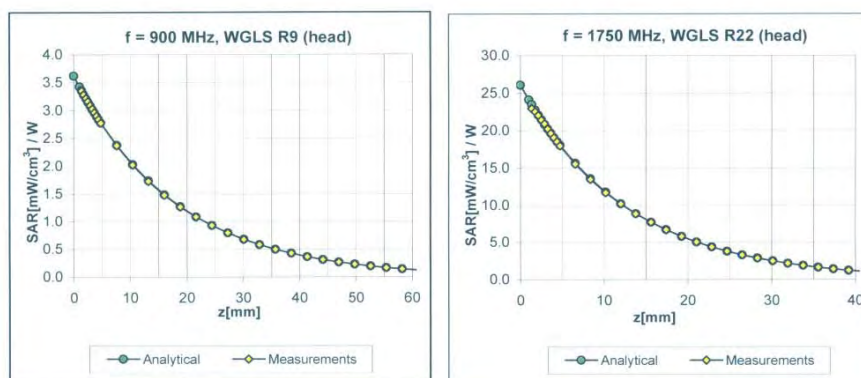
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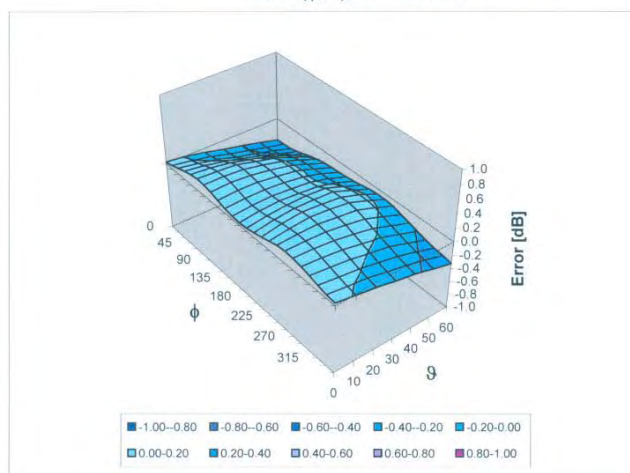
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Conversion Factor Assessment



Deviation from Isotropy in HSL

Error (ϕ , θ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ (k=2)

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Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	Not applicable
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	2 mm

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7. Uncertainty Analysis

DASY5 Uncertainty Budget
According to IEEE 1528 [1]

Error Description	Uncertainty value	Prob. Dist.	Div.	(c ₁) 1g	(c ₁) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(v _i) v _{eff}
Measurement System								
Probe Calibration	±5.9 %	N	1	1	1	±5.9 %	±5.9 %	∞
Axial Isotropy	±4.7 %	R	√3	0.7	0.7	±1.9 %	±1.9 %	∞
Hemispherical Isotropy	±9.6 %	R	√3	0.7	0.7	±3.9 %	±3.9 %	∞
Boundary Effects	±1.0 %	R	√3	1	1	±0.6 %	±0.6 %	∞
Linearity	±4.7 %	R	√3	1	1	±2.7 %	±2.7 %	∞
System Detection Limits	±1.0 %	R	√3	1	1	±0.6 %	±0.6 %	∞
Readout Electronics	±0.3 %	N	1	1	1	±0.3 %	±0.3 %	∞
Response Time	±0.8 %	R	√3	1	1	±0.5 %	±0.5 %	∞
Integration Time	±2.6 %	R	√3	1	1	±1.5 %	±1.5 %	∞
RF Ambient Noise	±3.0 %	R	√3	1	1	±1.7 %	±1.7 %	∞
RF Ambient Reflections	±3.0 %	R	√3	1	1	±1.7 %	±1.7 %	∞
Probe Positioner	±0.4 %	R	√3	1	1	±0.2 %	±0.2 %	∞
Probe Positioning	±2.9 %	R	√3	1	1	±1.7 %	±1.7 %	∞
Max. SAR Eval.	±1.0 %	R	√3	1	1	±0.6 %	±0.6 %	∞
Test Sample Related								
Device Positioning	±2.9 %	N	1	1	1	±2.9 %	±2.9 %	145
Device Holder	±3.6 %	N	1	1	1	±3.6 %	±3.6 %	5
Power Drift	±5.0 %	R	√3	1	1	±2.9 %	±2.9 %	∞
Phantom and Setup								
Phantom Uncertainty	±4.0 %	R	√3	1	1	±2.3 %	±2.3 %	∞
Liquid Conductivity (target)	±5.0 %	R	√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	√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						±10.9 %	±10.7 %	387
Expanded STD Uncertainty						±21.9 %	±21.4 %	

Table 19.6: Worst-Case uncertainty budget for DASY5 assessed according to IEEE 1528 [1]. The budget is valid for the frequency range 300 MHz - 3 GHz and represents a worst-case analysis. For specific tests and configurations, the uncertainty could be considerable smaller.

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8. Phantom Description

Schmid & Partner Engineering AG

s p e a g

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 Zurich 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 ft.
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 OUT below	Prototypes, Sample testing

Standards

- [1] CENELEC EN 50351
- [2] IEEE Std 1528-2003
- [3] IEC 62209 Part 1
- [4] 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.

Conformity

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

Signature / Stamp

s p e a g

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Doc No 581 – QD 000 P40 C – F

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