

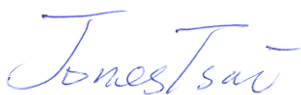
FCC SAR Test Report

APPLICANT : SAMSUNG Electronics Co., LTD.
EQUIPMENT : Mobile Phone
BRAND NAME : Samsung
MODEL NAME : GT-I9260
MARKETING NAME : Superior
FCC ID : A3LGTI9260
STANDARD : FCC 47 CFR Part 2 (2.1093)
ANSI/IEEE C95.1-1992
IEEE 1528-2003
FCC OET Bulletin 65 Supplement C (Edition 01-01)

The product was completely tested on Oct. 09, 2012. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:



Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA292639	Rev. 01	Initial issue of report	Oct. 11, 2012
FA292639	Rev. 02	Update report for revising Page.43 second table headers should be Scaled WLAN5G	Nov. 01, 2012

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **SAMSUNG Electronics Co., LTD. Mobile Phone, Samsung, GT-I9260, Superior**, are as follows.

<Standalone SAR>

Band	Position	SAR _{1g} (W/kg)	Scaled SAR _{1g} (W/kg)
GSM850	Head	0.508	0.548
GSM1900	Head	0.114	0.117
WCDMA Band V	Head	0.386	0.399
WCDMA Band II	Head	0.232	0.242
WLAN 2.4G	Head	0.677	0.719
WLAN 5G	Head	0.602	0.688
GSM850	Hotspot (1 cm Gap)	0.945	0.999
GSM1900	Hotspot (1 cm Gap)	0.404	0.414
WCDMA Band V	Hotspot (1 cm Gap)	0.673	0.695
WCDMA Band II	Hotspot (1 cm Gap)	0.596	0.623
WLAN 2.4G	Hotspot (1 cm Gap)	0.152	0.161
WLAN 5G	Hotspot (1 cm Gap)	0.093	0.098
GSM850	Body-worn (1 cm Gap)	0.945	0.999
GSM1900	Body-worn (1 cm Gap)	0.356	0.365
WCDMA Band V	Body-worn (1 cm Gap)	0.673	0.695
WCDMA Band II	Body-worn (1 cm Gap)	0.475	0.496
WLAN 2.4G	Body-worn (1 cm Gap)	0.138	0.147
WLAN 5G	Body-worn (1 cm Gap)	0.342	0.391

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003 and FCC OET Bulletin 65 Supplement C (Edition 01-01).

2. Administration Data

2.1 Testing Laboratory

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978

2.2 Applicant

Company Name	SAMSUNG Electronics Co., LTD.
Address	IT center, 416, Maetan-3dong, Yeongtong-gu, Suwon-city, Gyeonggi-do, Korea

2.3 Manufacturer

Company Name	SAMSUNG Electronics Co., LTD.
Address	IT center, 416, Maetan-3dong, Yeongtong-gu, Suwon-city, Gyeonggi-do, Korea

2.4 Application Details

Date of Start during the Test	Oct. 02, 2012
Date of End during the Test	Oct. 09, 2012

3. General Information

3.1 Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT	Mobile Phone
Brand Name	Samsung
Model Name	GT-I9260
Marketing Name	Superior
FCC ID	A3LGTI9260
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WLAN2.4G: 2412 MHz ~ 2462 MHz WLAN5G: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Maximum Average Output Power to Antenna	GSM850: 33.17 dBm GSM1900: 30.39 dBm WCDMA Band V: 23.36 dBm WCDMA Band II: 23.81 dBm 802.11b: 16.24 dBm 802.11g: 12.52 dBm 802.11n-HT20 (2.4GHz) : 11.86 dBm 802.11a : 13.42 dBm 802.11n-HT20 (5GHz) : 13.00 dBm 802.11n-HT40 (5GHz) : 12.98 dBm Bluetooth: -0.51 dBm
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna NFC: Loop Antenna on the battery
HW Version	REV1.1
SW Version	I9260.002
Uplink Modulations	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA (Rel 99): QPSK HSDPA (Rel 6): QPSK HSUPA (Rel 6): QPSK 802.11b: DSSS (BPSK / QPSK / CCK) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth 4.0 LE: GFSK NFC : ASK
Dual Transfer Mode (DTM) Category	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Remark:	
1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.	
2. 5600 MHz ~ 5650 MHz is notched.	

3.2 Applied Standard

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2003
- FCC OET Bulletin 65 Supplement C (Edition 01-01)
- FCC KDB 447498 D01 v04
- FCC KDB 648474 D01 v01r05
- FCC KDB 941225 D01 v02
- FCC KDB 941225 D03 v01
- FCC KDB 941225 D06 v01
- FCC KDB 248227 D01 v01r02

3.3 Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

3.4 Test Conditions

3.4.1 Ambient Condition

Ambient Temperature	20 to 24 °C
Humidity	< 60 %

3.4.2 Test Configuration

The device was controlled by using a base station emulator. Communication between the device and the emulator was established by air link. The distance between the EUT and the antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during all tests.

For WLAN SAR testing, WLAN engineering testing software installed on the EUT can provide continuous transmitting RF signal.

The maximum rated power of WWAN is listed in "Tune-Up Procedure" exhibit, and the maximum rated power of WLAN is listed in "Operational Description" exhibit; the scaling factor is calculated according to the difference between measured output power and maximum tolerance power on this device.

4. Specific Absorption Rate (SAR)

4.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

4.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$\text{SAR} = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$\text{SAR} = C \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

5. SAR Measurement System

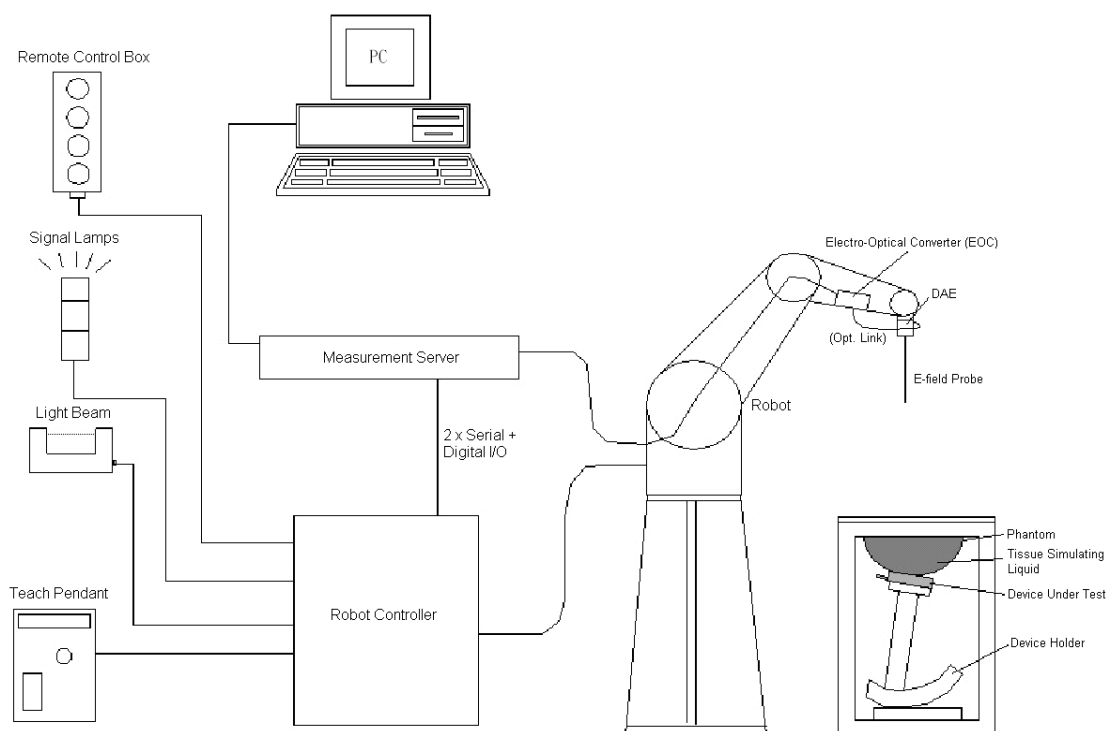


Fig 5.1 SPEAG DASY System Configurations

The DASY system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (EOC) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY software
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

Component details are described in in the following sub-sections.

5.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

5.1.1 E-Field Probe Specification

<ET3DV6 / ET3DV6R Probe >

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz to 3 GHz; Linearity: ± 0.2 dB	
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.4 dB in HSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g to 100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 330 mm (Tip: 16 mm) Tip diameter: 6.8 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.7 mm	

Fig 5.2 Photo of ET3DV6/ET3DV6

<EX3DV4 / ES3DV4 Probe>

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB	
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	

Fig 5.3 Photo of EX3DV4/ES3DV4

5.1.2 E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (NormX, NormY, and NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix C of this report.

5.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock. The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig 5.4 Photo of DAE

5.3 Robot

The SPEAG DASY system uses the high precision robots (DASY4: RX90BL; DASY5: TX90XL) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY4: CS7MB; DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability ± 0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)



Fig 5.5 Photo of DASY4

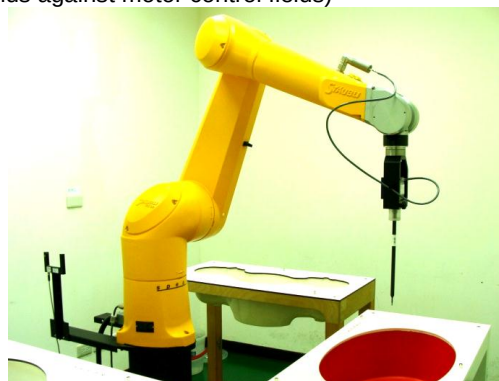


Fig 5.6 Photo of DASY5

5.4 Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY4: 166 MHz, Intel Pentium; DASY5: 400 MHz, Intel Celeron), chipdisk (DASY4: 32 MB; DASY5: 128 MB), RAM (DASY4: 64 MB, DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



Fig 5.7 Photo of Server for DASY4



Fig 5.8 Photo of Server for DASY5

5.5 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

Fig 5.9 Photo of SAM Phantom

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI4 Phantom>

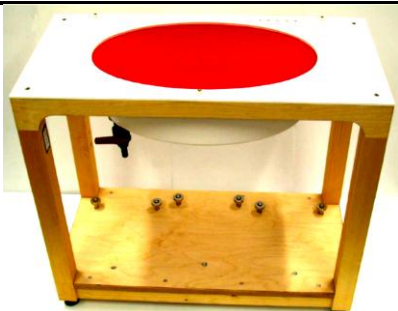
Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

Fig 5.10 Photo of ELI4 Phantom

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

5.6 Device Holder

<Device Holder for SAM Twin Phantom>

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

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

The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



Fig 5.11 Device Holder

<Laptop Extension Kit>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.

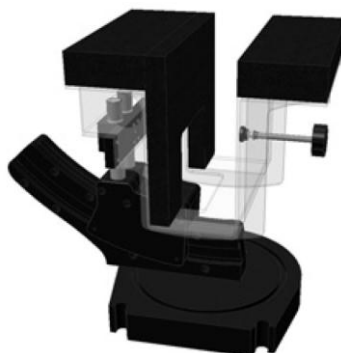


Fig 5.12 Laptop Extension Kit

5.7 Data Storage and Evaluation

5.7.1 Data Storage

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The post-processing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type (e.g., [V/m], [A/m], [mW/g]). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a non-lose media, will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

5.7.2 Data Evaluation

The DASY post-processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software :

Probe parameters :	- Sensitivity	Norm _i , a _{i0} , a _{i1} , a _{i2}
	- Conversion factor	ConvF _i
	- Diode compression point	dcp _i
Device parameters :	- Frequency	f
	- Crest factor	cf
Media parameters :	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multi-meter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as :

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

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

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

$$\text{E-field Probes : } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

$$\text{H-field Probes : } H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

with V_i = compensated signal of channel i, (i = x, y, z)
 Norm_i = sensor sensitivity of channel i, (i = x, y, z), $\mu\text{V}/(\text{V/m})^2$ for E-field Probes
 ConvF = sensitivity enhancement in solution
 a_{ij} = sensor sensitivity factors for H-field probes
 f = carrier frequency [GHz]
 E_i = electric field strength of channel i in V/m
 H_i = magnetic field strength of channel i in A/m

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

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

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

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

with SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in [mho/m] or [Siemens/m]
 ρ = equivalent tissue density in g/cm^3

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

5.8 Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	835MHz System Validation Kit	D835V2	499	Mar. 22, 2010	Mar. 21, 2013
SPEAG	1900MHz System Validation Kit	D1900V2	5d041	Mar. 23, 2010	Mar. 22, 2013
SPEAG	2450MHz System Validation Kit	D2450V2	736	Jul. 25, 2011	Jul. 24, 2013
SPEAG	5GHz System Validation Kit	D5GHzV2	1006	Jan. 18, 2012	Jan. 17, 2013
SPEAG	Data Acquisition Electronics	DAE4	778	Aug. 27, 2012	Aug. 26, 2013
SPEAG	Data Acquisition Electronics	DAE3	495	Apr. 23, 2012	Apr. 22, 2013
SPEAG	Data Acquisition Electronics	DAE4	1338	Jun. 12, 2012	Jun. 11, 2013
SPEAG	Dosimetric E-Field Probe	ET3DV6	1787	May 29, 2012	May 28, 2013
SPEAG	Dosimetric E-Field Probe	EX3DV4	3792	Jun. 21, 2012	Jun. 20, 2013
SPEAG	Dosimetric E-Field Probe	ES3DV3	3305	Sep. 12, 2012	Sep. 11, 2013
SPEAG	Dosimetric E-Field Probe	EX3DV4	3578	Jun. 21, 2012	Jun. 20, 2013
Wisewind	Thermometer	ETP-101	TM560	Nov. 16, 2011	Nov. 15, 2012
Wisewind	Thermometer	HTC-1	TM685	Nov. 16, 2011	Nov. 15, 2012
Wisewind	Thermometer	HTC-1	TM659	Nov. 16, 2011	Nov. 15, 2012
H.M.IRIS	Thermometer	TH-08	TM658	Nov. 16, 2011	Nov. 15, 2012
SPEAG	Device Holder	N/A	N/A	NCR	NCR
SPEAG	SAM Phantom	QD 000 P40 C	TP-1303	NCR	NCR
SPEAG	SAM Phantom	QD 000 P40 C	TP-1383	NCR	NCR
SPEAG	SAM Phantom	QD 000 P40 C	TP-1446	NCR	NCR
SPEAG	SAM Phantom	QD 000 P40 C	TP-1478	NCR	NCR
SPEAG	SAM Phantom	QD 000 P41 C	TP-1150	NCR	NCR
SPEAG	SAM Phantom	QD 000 P40 CD	TP-1644	NCR	NCR
SPEAG	SAM Phantom	SM 000 T01 DA	TP-1542	NCR	NCR
Agilent	Network Analyzer	E5071C	MY46101588	May 11, 2012	May 10, 2013
Agilent	ESG Vector Series Signal Generator	E4438C	MY49070755	Oct. 17, 2011	Oct. 16, 2012
Anritsu	Power Meter	ML2495A	1132003	Aug. 14, 2012	Aug. 13, 2013
Anritsu	Radio Communication Analyzer	MT8820C	6201074414	Dec. 21, 2011	Dec. 20, 2012
Agilent	Wireless Communication Test Set	E5515C	MY48360820	Jan. 05, 2012	Jan. 04, 2014
Agilent	Wireless Communication Test Set	E5515C	GB46311322	Mar. 23, 2011	Mar. 22, 2013
Agilent	Wireless Communication Test Set	E5515C	MY50264370	Apr. 19, 2011	Apr. 18, 2013
Agilent	Wireless Communication Test Set	E5515C	MY50266977	Nov. 13, 2011	Nov. 12, 2013
R&S	Universal Digital Radio communication Tester	CMU200	114256	Jun. 29, 2012	Jun. 28, 2013
R&S	Spectrum Analyzer	FSP	101131	Jul. 23, 2012	Jul. 22, 2013

Table 5.1 Test Equipment List

Note:

1. The calibration certificate of DASY can be referred to appendix C of this report.
2. Referring to KDB 450824 D02, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The justification data of dipole D835V2, SN: 499, D1900V2, SN: 5d041, and D2450V2, SN: 736 can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

6. Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 6.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 6.2.



Fig 6.1 Photo of Liquid Height for Head SAR



Fig 6.2 Photo of Liquid Height for Body SAR

The following table gives the recipes for tissue simulating liquid.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (ϵ_r)
For Head								
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
For Body								
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0	0	31.4	1.95	52.7

Table 6.1 Recipes of Tissue Simulating Liquid

Simulating Liquid for 5G, Manufactured by SPEAG

Ingredients	(% by weight)
Water	64~78%
Mineral oil	11~18%
Emulsifiers	9~15%
Additives and Salt	2~3%

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an Agilent 85070D Dielectric Probe Kit and an Agilent Network Analyzer.

The following table shows the measuring results for simulating liquid.

Freq. (MHz)	Liquid Type	Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
835	Head	21.6	0.9	40.8	0.90	41.5	0.00	-1.69	±5	Oct. 02, 2012
835	Head	21.6	0.894	41.7	0.90	41.5	-0.67	0.48	±5	Oct. 03, 2012
850	Body	21.5	0.963	54.5	0.97	55.2	-0.72	-1.27	±5	Oct. 03, 2012
1900	Head	21.6	1.45	38.5	1.40	40.0	3.57	-3.75	±5	Oct. 02, 2012
1900	Head	21.6	1.44	38.1	1.40	40.0	2.86	-4.75	±5	Oct. 03, 2012
1900	Body	21.6	1.53	52.9	1.52	53.3	0.66	-0.75	±5	Oct. 02, 2012
1900	Body	21.6	1.51	52.5	1.52	53.3	-0.66	-1.50	±5	Oct. 02, 2012
2450	Head	21.5	1.84	39.5	1.80	39.2	2.22	0.77	±5	Oct. 03, 2012
2450	Body	21.5	1.92	53.2	1.95	52.7	-1.54	0.95	±5	Oct. 03, 2012
5200	Head	21.8	4.793	35.493	4.66	36.0	2.85	-1.41	±5	Oct. 05, 2012
5200	Body	21.6	5.27	47.6	5.30	49.0	-0.57	-2.86	±5	Oct. 06, 2012
5200	Body	21.9	5.279	48.534	5.30	49.0	-0.40	-0.95	±5	Oct. 09, 2012
5500	Head	21.4	5.12	35	4.96	35.6	3.23	-1.69	±5	Oct. 05, 2012
5500	Body	21.6	5.66	47	5.65	48.6	0.18	-3.29	±5	Oct. 06, 2012
5500	Body	21.9	5.717	47.955	5.65	48.6	1.19	-1.33	±5	Oct. 09, 2012
5800	Head	21.4	5.41	34.4	5.27	35.3	2.66	-2.55	±5	Oct. 05, 2012
5800	Body	21.6	6.15	46.5	6.00	48.2	2.50	-3.53	±5	Oct. 06, 2012

Table 6.2 Measuring Results for Simulating Liquid

7. SAR Measurement Evaluation

Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

7.1 Purpose of System Performance check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

7.2 System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:

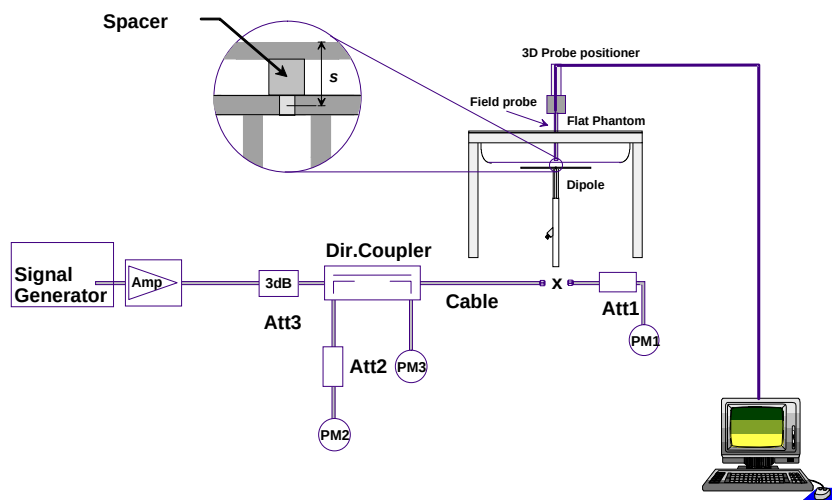


Fig 7.1 System Setup for System Evaluation



Fig 7.2 Photo of Dipole Setup

1. Signal Generator
2. Amplifier
3. Directional Coupler
4. Power Meter
5. Calibrated Dipole

The output power on dipole port must be calibrated to 24 dBm (250 mW) before dipole is connected.

7.3 Validation Results

Comparing to the original SAR value provided by SPEAG, the validation data should be within its specification of 10 %. Table 7.1 shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Measurement Date	Frequency (MHz)	Liquid Type	Targeted SAR _{1g} (W/kg)	Measured SAR _{1g} (W/kg)	Normalized SAR _{1g} (W/kg)	Deviation (%)
Oct. 02, 2012	835	Head	9.71	2.47	9.88	1.75
Oct. 03, 2012	835	Head	9.71	2.43	9.72	0.10
Oct. 03, 2012	850	Body	9.82	2.6	10.40	5.91
Oct. 02, 2012	1900	Head	39.8	9.49	37.96	-4.62
Oct. 03, 2012	1900	Head	39.8	10.2	40.80	2.51
Oct. 02, 2012	1900	Body	40	10.3	41.20	3.00
Oct. 02, 2012	1900	Body	40	9.58	38.32	-4.20
Oct. 03, 2012	2450	Head	54.8	13.5	54.00	-1.46
Oct. 03, 2012	2450	Body	52.3	12.2	48.80	-6.69
Oct. 05, 2012	5200	Head	79.2	20.9	83.60	5.56
Oct. 06, 2012	5200	Body	72.60	17.2	68.80	-5.23
Oct. 09, 2012	5200	Body	72.6	16.7	66.80	-7.99
Oct. 05, 2012	5500	Head	85.20	19.9	79.60	-6.57
Oct. 06, 2012	5500	Body	78.80	18.4	73.60	-6.60
Oct. 09, 2012	5500	Body	78.8	18.6	74.40	-5.58
Oct. 05, 2012	5800	Head	79.00	20.3	81.20	2.78
Oct. 06, 2012	5800	Body	73.10	17.4	69.60	-4.79

Table 7.1 Target and Measurement SAR after Normalized

8. EUT Testing Position

8.1 Define two imaginary lines on the handset

- The vertical centerline passes through two points on the front side of the handset - the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

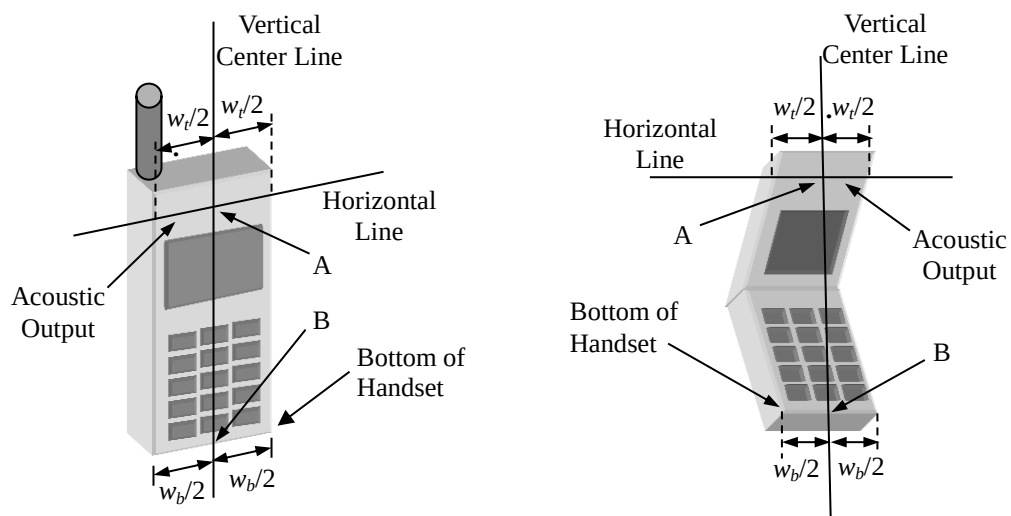


Fig 8.1 Illustration for Handset Vertical and Horizontal Reference Lines

8.2 Cheek Position

- To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see Fig. 8.2).

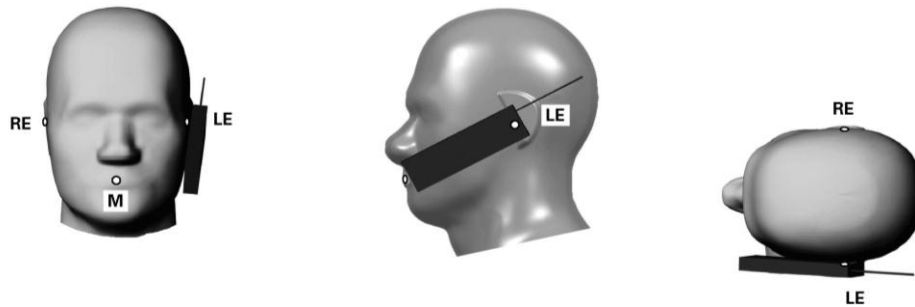


Fig 8.2 Illustration for Cheek Position

8.3 Tilted Position

- To position the device in the “cheek” position described above.
- While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see Fig. 8.3).

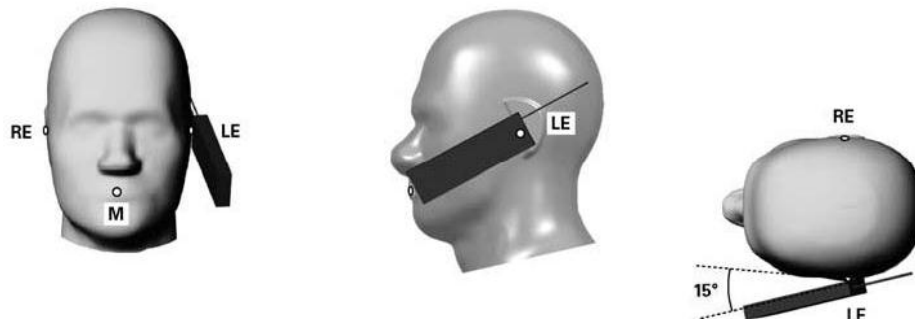


Fig 8.3 Illustration for Tilted Position

8.4 Body Position

1. To position the device parallel to the phantom all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
2. To adjust the distance between the device surface and all sides that the flat phantom to 1 cm.

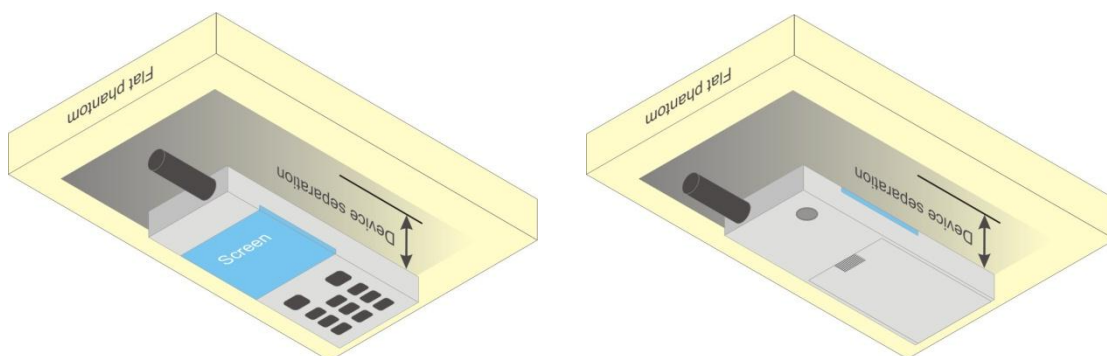


Fig 8.4 Illustration for Body Worn Position

9. Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the highest power channel.
- (b) Keep EUT to radiate maximum output power or 100% duty factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Set scan area, grid size and other setting on the DASY software.
- (e) Measure SAR results for the highest power channel on each testing position.
- (f) Find out the largest SAR result on these testing positions of each band
- (g) Measure SAR results for other channels in worst SAR testing position if the SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

9.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

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 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

9.2 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan measures 5x5x7 points with step size 8, 8 and 5 mm for 300 MHz to 3 GHz, and 8x8x8 points with step size 4, 4 and 2.5 mm for 3 GHz to 6 GHz. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

9.3 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remains in the same test position for all measurements and all volume scans use the same spatial resolution and grid spacing (step-size is 4, 4 and 2.5 mm). When all volume scans are completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculate the multiband SAR.

9.4 SAR Averaged Methods

In DASy, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

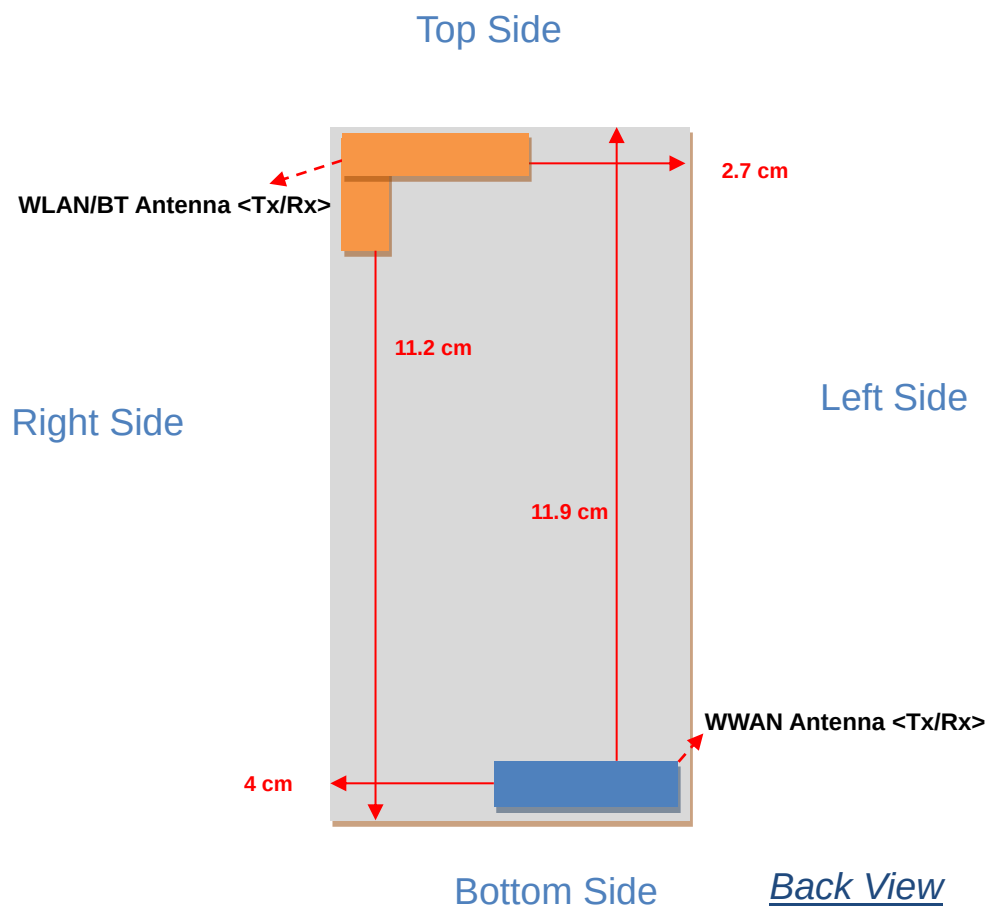
Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

9.5 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

10. SAR Test Configurations

10.1 Exposure Positions Consideration



Antennas	Wireless Interface
WWAN Antenna (Tx / Rx)	GSM850 GSM1900 WCDMA Band V WCDMA Band II
BT&WLAN Antenna (Tx / Rx)	WLAN 2.4GHz WLAN 5GHz Bluetooth

Sides for SAR tests; Hotspot mode Test distance: 10 mm						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN	YES	YES	NO	YES	NO	YES
BT&WLAN	YES	YES	YES	NO	YES	NO

Note:

1. Head/Body-worn/Hotspot mode SAR assessments are required.
2. Referring to KDB 941225 D06, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
3. For WWAN antenna, SAR measurements at Top/Right sides are not required since the distance between the transmitting antenna and surface of device is $> 25\text{mm}$.
4. For BT&WLAN antenna, SAR measurements Bottom/Left sides are not required since the distance between the transmitting antenna and surface of device is $> 25\text{mm}$.
5. Per KDB 648474 D01, Bluetooth output power $\leq 2 \times P_{\text{Ref}}$ and the distance to WWAN antenna $\geq 5\text{cm}$, therefore, stand-alone SAR is not required.

10.2 Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

Band: GSM850	Burst Average Power (dBm)			Frame-Average Power (dBm)		
Channel	128	189	251	128	189	251
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8
GSM (GMSK, 1 Tx slot)	33.14	33.17	33.15	24.14	24.17	24.15
GPRS (GMSK, 1 Tx slot) – CS1	33.13	33.14	33.13	24.13	24.14	24.13
GPRS (GMSK, 2 Tx slots) – CS1	31.22	31.29	31.27	25.22	25.29	25.27
GPRS (GMSK, 3 Tx slots) – CS1	29.68	29.79	29.76	25.42	25.53	25.50
GPRS (GMSK, 4 Tx slots) – CS1	28.11	28.18	28.17	25.11	25.18	25.17
EDGE (GMSK, 1 Tx slot) – MCS1	33.12	33.15	33.13	24.12	24.15	24.13
EDGE (GMSK, 2 Tx slots) – MCS1	31.22	31.28	31.27	25.22	25.28	25.27
EDGE (GMSK, 3 Tx slots) – MCS1	29.68	29.75	29.76	25.42	25.49	25.50
EDGE (GMSK, 4 Tx slots) – MCS1	28.11	28.17	28.17	25.11	25.17	25.17
EDGE (8PSK, 1 Tx slot) – MCS5	26.87	26.89	26.88	17.87	17.89	17.88
EDGE (8PSK, 2 Tx slots) – MCS5	26.85	26.88	26.87	20.85	20.88	20.87
EDGE (8PSK, 3 Tx slots) – MCS5	26.82	26.87	26.86	22.56	22.61	22.60
EDGE (8PSK, 4 Tx slots) – MCS5	26.71	26.75	26.77	23.71	23.75	23.77

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.
The calculated method are shown as below:
Frame-averaged power = Maximum burst averaged power (1 Tx slot) - 9 dB
Frame-averaged power = Maximum burst averaged power (2 Tx slot) - 6 dB
Frame-averaged power = Maximum burst averaged power (3 Tx slot) - 4.26 dB
Frame-averaged power = Maximum burst averaged power (4 Tx slot) - 3 dB

Band: GSM1900	Burst Average Power (dBm)			Frame-Average Power (dBm)		
Channel	512	661	810	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8
GSM (GMSK, 1 Tx slot)	30.35	30.39	30.31	21.35	21.39	21.31
GPRS (GMSK, 1 Tx slot) – CS1	30.34	30.38	30.30	21.34	21.38	21.30
GPRS (GMSK, 2 Tx slots) – CS1	29.37	29.36	29.35	23.37	23.36	23.35
GPRS (GMSK, 3 Tx slots) – CS1	27.39	27.35	27.38	23.13	23.09	23.12
GPRS (GMSK, 4 Tx slots) – CS1	26.37	26.37	26.39	23.37	23.37	23.39
EDGE (GMSK, 1 Tx slot) – MCS1	30.34	30.38	30.27	21.34	21.38	21.27
EDGE (GMSK, 2 Tx slots) – MCS1	29.37	29.34	29.33	23.37	23.34	23.33
EDGE (GMSK, 3 Tx slots) – MCS1	27.38	27.36	27.35	23.12	23.10	23.09
EDGE (GMSK, 4 Tx slots) – MCS1	26.36	26.35	26.35	23.36	23.35	23.35
EDGE (8PSK, 1 Tx slot) – MCS5	26.25	26.33	26.25	17.25	17.33	17.25
EDGE (8PSK, 2 Tx slots) – MCS5	26.23	26.31	26.23	20.23	20.31	20.23
EDGE (8PSK, 3 Tx slots) – MCS5	26.22	26.30	26.20	21.96	22.04	21.94
EDGE (8PSK, 4 Tx slots) – MCS5	26.12	26.18	26.11	23.12	23.18	23.11

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.
The calculated method are shown as below:
Frame-averaged power = Maximum burst averaged power (1 Tx slot) - 9 dB
Frame-averaged power = Maximum burst averaged power (2 Tx slot) - 6 dB
Frame-averaged power = Maximum burst averaged power (3 Tx slot) - 4.26 dB
Frame-averaged power = Maximum burst averaged power (4 Tx slot) - 3 dB

Note:

- For Head SAR testing, GSM should be evaluated, therefore the EUT was set in GSM Voice.
- For Body SAR testing, GSM, GPRS, and EDGE should be evaluated, therefore the EUT was set in GSM Voice and GPRS 3 Tx slots for GSM850 due to its highest frame-average power.
- Per KDB 447498, the maximum output power channel is used for SAR testing and for further SAR test reduction.
- The EUT does not support DTM function.

<WCDMA Conducted Power>

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station referred to the drawing of Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.
 Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.
 Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
 Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station referred to the drawing of Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 5) (Note 6)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.

Setup Configuration

WCDMA Average power (dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency (MHz)	826.4	836.4	846.6	1852.4	1880.0	1907.6
AMR 12.2K	23.35	23.13	23.00	23.68	23.80	23.70
RMC 12.2K	23.36	23.14	23.21	23.69	23.81	23.71
HSDPA Subtest-1	22.90	22.81	22.83	23.02	23.12	23.05
HSDPA Subtest-2	22.58	22.39	22.49	22.96	23.08	23.00
HSDPA Subtest-3	22.33	22.21	22.20	22.74	22.85	22.77
HSDPA Subtest-4	22.13	22.00	22.09	22.52	22.62	22.54
HSUPA Subtest-1	22.62	22.49	22.51	23.13	23.27	23.14
HSUPA Subtest-2	21.42	21.26	21.28	21.71	21.88	21.81
HSUPA Subtest-3	21.80	21.67	21.69	22.31	22.40	22.37
HSUPA Subtest-4	21.09	21.01	21.05	21.52	21.60	21.54
HSUPA Subtest-5	22.67	22.51	22.59	23.22	23.31	23.25

MPR (dB)							
3GPP MPR	Subtest	WCDMA Band V			WCDMA Band II		
0	HSDPA Subtest-1	0.00	0.00	0.00	0.00	0.00	0.00
0	HSDPA Subtest-2	0.32	0.42	0.34	0.06	0.04	0.05
≤ 0.5	HSDPA Subtest-3	0.57	0.60	0.63	0.28	0.27	0.28
≤ 0.5	HSDPA Subtest-4	0.77	0.81	0.74	0.50	0.50	0.51
0	HSUPA Subtest-1	0.05	0.02	0.08	0.09	0.04	0.11
≤ 2	HSUPA Subtest-2	1.25	1.25	1.31	1.51	1.43	1.44
≤ 1	HSUPA Subtest-3	0.87	0.84	0.90	0.91	0.91	0.88
≤ 2	HSUPA Subtest-4	1.58	1.50	1.54	1.70	1.71	1.71
0	HSUPA Subtest-5	0.00	0.00	0.00	0.00	0.00	0.00

Note:

- Applying the subtest setup in Table C.11.1.3 of 3GPP TS 34.121-1 V9.1.0 to Rel. 6 HSPA.
- For Head SAR, per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If AMR 12.2kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2kbps can be excluded.
- For Body SAR, per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA/HSUPA output power is < 0.25dB higher than RMC, or SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA/HSUPA SAR evaluation can be excluded.
- By design, AMR, HSDPA/HSUPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.
- It is expected by the manufacturer that MPR for some HSDPA/HSUPA, subtests may differ from the specification of 3GPP, according to the chipset implementation in this model. The implementation and expected deviation are detailed in tune-up procedure exhibit.

<WLAN 2.4GHz Conducted Power>

WLAN 2.4G 802.11b Average Power (dBm)						
Power vs. Channel			Power vs. Data Rate			
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)		
		1M		2M	5.5M	11M
CH 01	2412	16.24	01	16.21	16.22	16.23
CH 06	2437	15.97				
CH 11	2462	15.70				

WLAN 2.4G 802.11g Average Power (dBm)										
Power vs. Channel			Power vs. Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		6M		9M	12M	18M	24M	36M	48M	54M
CH 01	2412	12.52	01	12.43	12.42	12.35	12.51	12.48	12.44	12.47
CH 06	2437	12.20								
CH 11	2462	12.14								

WLAN 2.4G 802.11n (BW 20MHz) Average Power (dBm)										
Power vs. Channel			Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2412	11.37	11	11.81	11.75	11.80	11.86	11.79	11.82	11.84
CH 06	2437	11.07								
CH 11	2462	11.86								

Note:

1. Per KDB 248227, choose the highest output power channel to test SAR and determine further SAR exclusion
2. Per KDB 248227, 11g and 11n-HT20 output power is less than 0.25dB higher than 11b mode, thus the SAR can be excluded.
3. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 0.25dB higher than those measured at the lowest data rate.

<Bluetooth Conducted Power>

Channel	Frequency (MHz)	Average power (dBm)	
		Mode	
		BT v4.0 LE, GFSK	
CH 0	2402	-0.51	
CH 19	2440	-1.15	
CH 39	2480	-2.29	

<WLAN 5GHz Conducted Power>

WLAN 5G 802.11a Average Power (dBm)										
Power vs. Channel			Power vs. Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		6M		9M	12M	18M	24M	36M	48M	54M
CH 36	5180	12.97	40	12.93	12.90	12.86	12.88	12.83	12.81	12.83
CH 40	5200	13.00								
CH 44	5220	12.81								
CH 48	5240	12.88								
CH 52	5260	12.82	52	12.68	12.78	12.80	12.81	12.78	12.80	12.80
CH 56	5280	12.80								
CH 60	5300	12.73								
CH 64	5320	12.63								
CH 100	5500	13.25	132	13.38	13.35	13.34	13.28	13.23	13.25	13.21
CH 104	5520	13.10								
CH 108	5540	13.01								
CH 112	5560	12.95								
CH 116	5580	12.81								
CH 132	5660	13.42								
CH 136	5680	13.40								
CH 140	5700	13.00								
CH 149	5745	12.52	165	12.68	12.74	12.77	12.73	12.73	12.76	10.71
CH 153	5765	12.54								
CH 157	5785	12.66								
CH 161	5805	12.62								
CH 165	5825	12.78								

WLAN 5G 802.11n (BW 20M) Average Power (dBm)										
Power vs. Channel			Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 36	5180	12.91	44	12.91	12.93	12.91	12.99	12.98	12.97	12.98
CH 40	5200	12.93								
CH 44	5220	13.00								
CH 48	5240	12.88								
CH 52	5260	12.88	52	12.83	12.84	12.77	12.83	12.85	12.86	12.87
CH 56	5280	12.87								
CH 60	5300	12.73								
CH 64	5320	12.58								
CH 100	5500	12.19	140	12.96	12.95	12.94	12.97	12.97	12.96	12.99
CH 104	5520	12.08								
CH 108	5540	12.02								
CH 112	5560	12.04								
CH 116	5580	12.87								
CH 132	5660	12.37								
CH 136	5680	12.28								
CH 140	5700	13.00								
CH 149	5745	12.57	165	12.79	12.79	12.78	12.79	12.78	12.80	12.79
CH 153	5765	12.63								
CH 157	5785	12.74								
CH 161	5805	12.79								
CH 165	5825	12.81								

WLAN 5G 802.11n (BW 40M) Average Power (dBm)										
Power vs. Channel			Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 38	5190	12.98	38	12.95	12.97	12.97	12.94	12.95	12.96	12.97
CH 46	5230	12.82								
CH 54	5270	12.73	54	12.71	12.70	12.69	12.72	12.71	12.69	12.71
CH 62	5310	12.60								
CH 102	5510	12.06	110	12.86	12.86	12.88	12.85	12.87	12.88	12.87
CH 110	5550	12.91								
CH 134	5670	12.25								
CH 151	5755	12.61	159	12.79	12.79	12.86	12.86	12.87	12.87	12.83
CH 159	5795	12.88								

Note:

1. Per KDB 248227, choose the highest output power channel to test SAR and determine further SAR exclusion
2. Per KDB 248227, 11n-HT20 and 11n-HT40 output power is less than 0.25dB higher than 11a mode, thus the SAR can be excluded.
3. Per KDB 248227, 11n-HT20 and 11n-HT40 average output power is higher than 0.25dB higher than 11a mode, SAR will be verified.
4. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 0.25dB higher than those measured at the lowest data rate.

11. SAR Test Results

11.1 Test Records for Head SAR Test

<GSM SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Burst Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	SAR _{1g} (W/kg)	Scaled SAR _{1g} (W/kg)
1	GSM850	GSM Voice	Right Cheek	189	836.4	33.17	33.50	1.079	0.166	0.465	0.502
2	GSM850	GSM Voice	Right Tilted	189	836.4	33.17	33.50	1.079	0.116	0.308	0.332
3	GSM850	GSM Voice	Left Cheek	189	836.4	33.17	33.50	1.079	-0.043	0.508	0.548
4	GSM850	GSM Voice	Left Tilted	189	836.4	33.17	33.50	1.079	0.009	0.287	0.310
5	GSM1900	GSM Voice	Right Cheek	661	1880	30.39	30.50	1.026	0.002	0.114	0.117
6	GSM1900	GSM Voice	Right Tilted	661	1880	30.39	30.50	1.026	0.051	0.049	0.050
7	GSM1900	GSM Voice	Left Cheek	661	1880	30.39	30.50	1.026	0.142	0.112	0.115
8	GSM1900	GSM Voice	Left Tilted	661	1880	30.39	30.50	1.026	0.053	0.049	0.050

Note: Per KDB 648474 and KDB 447498, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	SAR _{1g} (W/kg)	Scaled SAR _{1g} (W/kg)
9	WCDMA V	RMC12.2K	Right Cheek	4132	826.4	23.36	23.50	1.033	0.081	0.336	0.347
10	WCDMA V	RMC12.2K	Right Tilted	4132	826.4	23.36	23.50	1.033	0.059	0.231	0.239
11	WCDMA V	RMC12.2K	Left Cheek	4132	826.4	23.36	23.50	1.033	0.006	0.386	0.399
12	WCDMA V	RMC12.2K	Left Tilted	4132	826.4	23.36	23.50	1.033	0.007	0.219	0.226
13	WCDMA II	RMC12.2K	Right Cheek	9400	1880	23.81	24.00	1.045	0.194	0.215	0.225
14	WCDMA II	RMC12.2K	Right Tilted	9400	1880	23.81	24.00	1.045	-0.143	0.099	0.103
15	WCDMA II	RMC12.2K	Left Cheek	9400	1880	23.81	24.00	1.045	0.106	0.232	0.242
16	WCDMA II	RMC12.2K	Left Tilted	9400	1880	23.81	24.00	1.045	0.084	0.099	0.103

Note: Per KDB 648474 and KDB 447498, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Duty Cycle %	Duty Cycle Compensate Factor	Power Drift (dB)	SAR _{1g} (W/kg)	Duty Cycle Compensated 1g SAR	Scaled SAR _{1g} (W/kg)
49	WLAN2.4G	802.11b	Right Cheek	1	2412	16.24	16.50	1.062	98.62	1.014	0.13	0.379	0.384	0.408
50	WLAN2.4G	802.11b	Right Tilted	1	2412	16.24	16.50	1.062	98.62	1.014	0.01	0.439	0.445	0.472
51	WLAN2.4G	802.11b	Left Cheek	1	2412	16.24	16.50	1.062	98.62	1.014	0.022	0.668	0.677	0.719
52	WLAN2.4G	802.11b	Left Tilted	1	2412	16.24	16.50	1.062	98.62	1.014	-0.064	0.473	0.480	0.510
68	WLAN5G	802.11a	Right Cheek	40	5200	13	13.5	1.122	93.23	1.073	0.014	0.051	0.055	0.062
69	WLAN5G	802.11a	Right Tilted	40	5200	13	13.5	1.122	93.23	1.073	0.114	0.049	0.053	0.059
70	WLAN5G	802.11a	Left Cheek	40	5200	13	13.5	1.122	93.23	1.073	0.065	0.127	0.136	0.153
71	WLAN5G	802.11a	Left Tilted	40	5200	13	13.5	1.122	93.23	1.073	0.034	0.109	0.117	0.131
72	WLAN5G	802.11a	Right Cheek	52	5260	12.82	13	1.041	93.23	1.073	-0.04	0.056	0.060	0.062
73	WLAN5G	802.11a	Right Tilted	52	5260	12.82	13	1.041	93.23	1.073	0.111	0.055	0.059	0.061
74	WLAN5G	802.11a	Left Cheek	52	5260	12.82	13	1.041	93.23	1.073	0.046	0.142	0.152	0.158
75	WLAN5G	802.11a	Left Tilted	52	5260	12.82	13	1.041	93.23	1.073	0.11	0.112	0.120	0.125
76	WLAN5G	802.11a	Right Cheek	132	5660	13.42	14	1.143	93.23	1.073	0.173	0.288	0.309	0.353
77	WLAN5G	802.11a	Right Tilted	132	5660	13.42	14	1.143	93.23	1.073	-0.163	0.245	0.263	0.301
78	WLAN5G	802.11a	Left Cheek	132	5660	13.42	14	1.143	93.23	1.073	0.172	0.561	0.602	0.688
79	WLAN5G	802.11a	Left Tilted	132	5660	13.42	14	1.143	93.23	1.073	-0.165	0.423	0.454	0.519
80	WLAN5G	802.11a	Right Cheek	165	5825	12.78	13	1.051	93.23	1.073	0.112	0.075	0.080	0.084
81	WLAN5G	802.11a	Right Tilted	165	5825	12.78	13	1.051	93.23	1.073	0.128	0.061	0.065	0.068
82	WLAN5G	802.11a	Left Cheek	165	5825	12.78	13	1.051	93.23	1.073	0.182	0.133	0.143	0.150
83	WLAN5G	802.11a	Left Tilted	165	5825	12.78	13	1.051	93.23	1.073	0.152	0.094	0.101	0.106

Note: Per KDB 648474 and KDB 248227, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

11.2 Test Records for Hotspot SAR Test

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Burst Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	SAR _{1g} (W/kg)	Scaled SAR _{1g} (W/kg)
32	GSM850	GPRS (3 Tx slots)	Front	1	189	836.4	29.79	30.00	1.050	-0.021	0.702	0.737
33	GSM850	GPRS (3 Tx slots)	Back	1	189	836.4	29.79	30.00	1.050	0.01	0.921	0.967
38	GSM850	GPRS (3 Tx slots)	Left Side	1	189	836.4	29.79	30.00	1.050	-0.008	0.794	0.833
41	GSM850	GPRS (3 Tx slots)	Bottom Side	1	189	836.4	29.79	30.00	1.050	-0.044	0.390	0.409
34	GSM850	GPRS (3 Tx slots)	Back	1	128	824.2	29.68	30.00	1.076	0.056	0.895	0.963
35	GSM850	GPRS (3 Tx slots)	Back	1	251	848.8	29.76	30.00	1.057	-0.014	0.945	0.999
17	GSM1900	GPRS (4 Tx slots)	Front	1	810	1909.8	26.39	26.50	1.026	0.062	0.302	0.310
18	GSM1900	GPRS (4 Tx slots)	Back	1	810	1909.8	26.39	26.50	1.026	-0.018	0.356	0.365
19	GSM1900	GPRS (4 Tx slots)	Left Side	1	810	1909.8	26.39	26.50	1.026	0.005	0.135	0.138
22	GSM1900	GPRS (4 Tx slots)	Bottom Side	1	810	1909.8	26.39	26.50	1.026	-0.046	0.404	0.414

Note:

1. Per KDB 941225 D06, for EUT dimension $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 1cm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
2. As in (1), SAR for Front / Back / Bottom Side / Left Side is necessary.
3. Per KDB 648474 and KDB 447498 if the highest output channel SAR for each exposure position $\leq 0.8 \text{ W/kg}$ other channels SAR tests are not necessary.

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	SAR _{1g} (W/kg)	Scaled SAR _{1g} (W/kg)
42	WCDMA V	RMC12.2K	Front	1	4132	826.4	23.36	23.50	1.033	-0.042	0.476	0.492
43	WCDMA V	RMC12.2K	Back	1	4132	826.4	23.36	23.50	1.033	0.004	0.673	0.695
44	WCDMA V	RMC12.2K	Left Side	1	4132	826.4	23.36	23.50	1.033	-0.04	0.525	0.542
47	WCDMA V	RMC12.2K	Bottom Side	1	4132	826.4	23.36	23.50	1.033	0.056	0.189	0.195
25	WCDMA II	RMC12.2K	Front	1	9400	1880	23.81	24.00	1.045	0.018	0.377	0.394
26	WCDMA II	RMC12.2K	Back	1	9400	1880	23.81	24.00	1.045	0.022	0.465	0.486
27	WCDMA II	RMC12.2K	Left Side	1	9400	1880	23.81	24.00	1.045	-0.097	0.145	0.151
30	WCDMA II	RMC12.2K	Bottom Side	1	9400	1880	23.81	24.00	1.045	-0.04	0.596	0.623

Note:

1. Per KDB 941225 D06, for EUT dimension $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 1cm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
2. As in (1), SAR for Front / Back / Bottom Side / Left Side is necessary.
3. Per KDB 648474 and KDB 447498, if the highest output channel SAR for each exposure position $\leq 0.8 \text{ W/kg}$ other channels SAR tests are not necessary.

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Duty Cycle %	Duty Cycle Compensate Factor	Power Drift (dB)	SAR _{1g} (W/kg)	Duty Cycle Compensated 1g SAR	Scaled SAR _{1g} (W/kg)
53	WLAN2.4G	802.11b	Front	1	1	2412	16.24	16.5	1.062	98.62	1.014	-0.087	0.123	0.125	0.133
54	WLAN2.4G	802.11b	Back	1	1	2412	16.24	16.5	1.062	98.62	1.014	0.078	0.136	0.138	0.147
56	WLAN2.4G	802.11b	Right Side	1	1	2412	16.24	16.5	1.062	98.62	1.014	-0.11	0.106	0.107	0.114
57	WLAN2.4G	802.11b	Top Side	1	1	2412	16.24	16.5	1.062	98.62	1.014	0.054	0.15	0.152	0.161
90	WLAN5G	802.11a	Front	1	165	5825	12.78	13	1.051	93.23	1.073	-0.176	0.018	0.019	0.020
91	WLAN5G	802.11a	Back	1	165	5825	12.78	13	1.051	93.23	1.073	0.036	0.087	0.093	0.098
93	WLAN5G	802.11a	Right Side	1	165	5825	12.78	13	1.051	93.23	1.073	0.02	0.066	0.071	0.075
94	WLAN5G	802.11a	Top Side	1	165	5825	12.78	13	1.051	93.23	1.073	0.028	0.019	0.020	0.021

Note:

- Per KDB 941225 D06, for EUT dimension $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 1cm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
- As in (1), SAR for Front / Back / Top Side / Right Side is necessary.
- Per KDB 648474 and KDB 248227, if the highest output channel SAR for each exposure position $\leq 0.8 \text{ W/kg}$ other channels SAR tests are not necessary.

11.3 Test Records for Body-worn SAR Test
<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Burst Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Headset	Power Drift (dB)	SAR _{1g} (W/kg)	Scaled SAR _{1g} (W/kg)
32	GSM850	GPRS (3 Tx slots)	Front	1	189	836.4	29.79	30.00	1.050	-	-0.021	0.702	0.737
33	GSM850	GPRS (3 Tx slots)	Back	1	189	836.4	29.79	30.00	1.050	-	0.01	0.921	0.967
34	GSM850	GPRS (3 Tx slots)	Back	1	128	824.2	29.68	30.00	1.076	-	0.056	0.895	0.963
35	GSM850	GPRS (3 Tx slots)	Back	1	251	848.8	29.76	30.00	1.057	-	-0.014	0.945	0.999
36	GSM850	GSM Voice	Front	1	189	836.4	33.17	33.50	1.079	v	0.154	0.324	0.350
37	GSM850	GSM Voice	Back	1	189	836.4	33.17	33.50	1.079	v	-0.014	0.484	0.522
17	GSM1900	GPRS (4 Tx slots)	Front	1	810	1909.8	26.39	26.50	1.026	-	0.062	0.302	0.310
18	GSM1900	GPRS (4 Tx slots)	Back	1	810	1909.8	26.39	26.50	1.026	-	-0.018	0.356	0.365
23	GSM1900	GSM Voice	Front	1	661	1880	30.39	30.50	1.026	v	0.101	0.182	0.187
24	GSM1900	GSM Voice	Back	1	661	1880	30.39	30.50	1.026	v	0.015	0.240	0.246

Note:

- Per KDB 648474 and KDB 447498, if the highest output channel SAR for each exposure position $\leq 0.8 \text{ W/kg}$ other channels SAR tests are not necessary.
- Per KDB 941225 D06, hotspot SAR data in front/back positions can be considered as body-worn accessory SAR test data. GSM voice mode body-worn SAR was repeated at the worst position of hotspot SAR data, back position of this device
- "V" in the Headset column means the Headset is plugged during SAR testing.

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Headset	Power Drift (dB)	SAR _{1g} (W/kg)	Scaled SAR _{1g} (W/kg)
42	WCDMA V	RMC12.2K	Front	1	4132	826.4	23.36	23.50	1.033	-	-0.042	0.476	0.492
43	WCDMA V	RMC12.2K	Back	1	4132	826.4	23.36	23.50	1.033	-	0.004	0.673	0.695
48	WCDMA V	RMC12.2K	Back	1	4132	826.4	23.36	23.50	1.033	v	0.119	0.531	0.548
25	WCDMA II	RMC12.2K	Front	1	9400	1880	23.81	24.00	1.045	-	0.018	0.377	0.394
26	WCDMA II	RMC12.2K	Back	1	9400	1880	23.81	24.00	1.045	-	0.022	0.465	0.486
31	WCDMA II	RMC12.2K	Back	1	9400	1880	23.81	24.00	1.045	v	0.031	0.475	0.496

Note:

- Per KDB 648474 and KDB 447498, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.
- "V" in the Headset column means the Headset is plugged during SAR testing.

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Duty Cycle %	Duty Cycle Compensate Factor	Headset	Power Drift (dB)	SAR _{1g} (W/kg)	Duty Cycle Compensated 1g SAR	Scaled SAR _{1g} (W/kg)
53	WLAN2.4G	802.11b	Front	1	2412	16.24	16.5	1.062	2412	98.62	1.014	-	-0.087	0.123	0.125	0.133
54	WLAN2.4G	802.11b	Back	1	2412	16.24	16.5	1.062	2412	98.62	1.014	-	0.078	0.136	0.138	0.147
59	WLAN2.4G	802.11b	Back	1	2412	16.24	16.5	1.062	2412	98.62	1.014	v	0.096	0.12	0.122	0.130
84	WLAN5G	802.11a	Front	1	40	5200	13	13.5	1.122	93.23	1.073	-	0.167	0.031	0.033	0.037
85	WLAN5G	802.11a	Back	1	40	5200	13	13.5	1.122	93.23	1.073	-	-0.116	0.078	0.084	0.094
97	WLAN5G	802.11a	Back	1	40	5200	13	13.5	1.122	93.23	1.073	v	0.034	0.071	0.076	0.085
86	WLAN5G	802.11a	Front	1	52	5260	12.82	13	1.041	93.23	1.073	-	-0.196	0.027	0.029	0.030
87	WLAN5G	802.11a	Back	1	52	5260	12.82	13	1.041	93.23	1.073	-	0.156	0.084	0.090	0.094
98	WLAN5G	802.11a	Back	1	52	5260	12.82	13	1.041	93.23	1.073	v	0.047	0.083	0.089	0.093
88	WLAN5G	802.11a	Front	1	132	5660	13.42	14	1.143	93.23	1.073	-	-0.109	0.085	0.091	0.104
89	WLAN5G	802.11a	Back	1	132	5660	13.42	14	1.143	93.23	1.073	-	0.199	0.319	0.342	0.391
99	WLAN5G	802.11a	Back	1	132	5660	13.42	14	1.143	93.23	1.073	v	-0.094	0.301	0.323	0.369
90	WLAN5G	802.11a	Front	1	165	5825	12.78	13	1.051	93.23	1.073	-	-0.176	0.018	0.019	0.020
91	WLAN5G	802.11a	Back	1	165	5825	12.78	13	1.051	93.23	1.073	-	0.036	0.087	0.093	0.098
96	WLAN5G	802.11a	Back	1	165	5825	12.78	13	1.051	93.23	1.073	v	0.031	0.008	0.088	0.092

Note:

- Per KDB 648474 and KDB 248227, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.
- "V" in the Headset column means the Headset is plugged during SAR testing.

11.4 Simultaneous Multi-band Transmission Analysis

No.	Applicable Simultaneous Transmission Combination
1.	WWAN + BT
2.	WWAN + WLAN

Note:

1. WLAN and BT share the same antenna in time-switched way and cannot transmit simultaneously.
2. GSM and WCDMA share the same antenna, and cannot transmit simultaneously.
3. EUT will choose either WLAN2.4G or WLAN5G according to the network signal condition; therefore, they will not transmit simultaneously.
4. EUT will choose either GSM or WCDMA according to the network signal condition; therefore, they will not transmit simultaneously.
5. The maximum SAR summation is calculated based on the same configuration and test position.
6. When stand-alone 1-g SAR is not required for a transmitter or antenna, its SAR is considered zero in the 1-g SAR summing process to determine simultaneous transmission SAR evaluation requirements
7. If 1g-SAR scalar summation < 1.6W/kg, simultaneous SAR measurement is not necessary.

<Head SAR: GSM Voice>

Position	WWAN			Scaled WWAN				WLAN		Scaled WLAN2.4G				WWAN + WLAN	Scaled WWAN + Scaled WLAN
	WWAN Band	Plot No	Max. WWAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WWAN (W/kg)	Plot No	Max. WLAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WLAN (W/kg)		
Right Cheek	GSM850	1	0.465	33.17	33.5	1.079	0.502	49	0.384	16.24	16.5	1.062	0.408	0.85	0.91
	GSM1900	5	0.114	30.39	30.5	1.026	0.117	49	0.384	16.24	16.5	1.062	0.408	0.50	0.53
Right Tilted	GSM850	2	0.308	33.17	33.5	1.079	0.332	50	0.445	16.24	16.5	1.062	0.472	0.75	0.80
	GSM1900	6	0.049	30.39	30.5	1.026	0.050	50	0.445	16.24	16.5	1.062	0.472	0.49	0.52
Left Cheek	GSM850	3	0.508	33.17	33.5	1.079	0.548	51	0.677	16.24	16.5	1.062	0.719	1.19	1.27
	GSM1900	7	0.112	30.39	30.5	1.026	0.115	51	0.677	16.24	16.5	1.062	0.719	0.79	0.83
Left Tilted	GSM850	4	0.287	33.17	33.5	1.079	0.310	52	0.48	16.24	16.5	1.062	0.510	0.77	0.82
	GSM1900	8	0.049	30.39	30.5	1.026	0.050	52	0.48	16.24	16.5	1.062	0.510	0.53	0.56

Position	WWAN			Scaled WWAN				WLAN		Scaled WLAN5G				WWAN + WLAN	Scaled WWAN + Scaled WLAN
	WWAN Band	Plot No	Max. WWAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WWAN (W/kg)	Plot No	Max. WLAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WLAN (W/kg)		
Right Cheek	GSM850	1	0.465	33.17	33.5	1.079	0.502	76	0.309	13.42	14	1.143	0.353	0.77	0.86
	GSM1900	5	0.114	30.39	30.5	1.026	0.117	76	0.309	13.42	14	1.143	0.353	0.42	0.47
Right Tilted	GSM850	2	0.308	33.17	33.5	1.079	0.332	77	0.263	13.42	14	1.143	0.301	0.57	0.63
	GSM1900	6	0.049	30.39	30.5	1.026	0.050	77	0.263	13.42	14	1.143	0.301	0.31	0.35
Left Cheek	GSM850	3	0.508	33.17	33.5	1.079	0.548	78	0.602	13.42	14	1.143	0.688	1.11	1.24
	GSM1900	7	0.112	30.39	30.5	1.026	0.115	78	0.602	13.42	14	1.143	0.688	0.71	0.80
Left Tilted	GSM850	4	0.287	33.17	33.5	1.079	0.310	79	0.454	13.42	14	1.143	0.519	0.74	0.83
	GSM1900	8	0.049	30.39	30.5	1.026	0.050	79	0.454	13.42	14	1.143	0.519	0.50	0.57

<Head SAR: WCDMA>

	WWAN			Scaled WWAN				WLAN		Scaled WLAN2.4G				WWAN + WLAN	Scaled WWAN + Scaled WLAN
Position	WWAN Band	Plot No	Max. WWAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WWAN (W/kg)	Plot No	Max. WLAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WLAN (W/kg)		
Right Cheek	WCDMA V	9	0.336	23.36	23.5	1.033	0.347	49	0.384	16.24	16.5	1.062	0.408	0.72	0.76
	WCDMA II	13	0.215	23.81	24	1.045	0.225	49	0.384	16.24	16.5	1.062	0.408	0.60	0.63
Right Tilted	WCDMA V	10	0.231	23.36	23.5	1.033	0.239	50	0.445	16.24	16.5	1.062	0.472	0.68	0.71
	WCDMA II	14	0.099	23.81	24	1.045	0.103	50	0.445	16.24	16.5	1.062	0.472	0.54	0.58
Left Cheek	WCDMA V	11	0.386	23.36	23.5	1.033	0.399	51	0.677	16.24	16.5	1.062	0.719	1.06	1.12
	WCDMA II	15	0.232	23.81	24	1.045	0.242	51	0.677	16.24	16.5	1.062	0.719	0.91	0.96
Left Tilted	WCDMA V	12	0.219	23.36	23.5	1.033	0.226	52	0.48	16.24	16.5	1.062	0.510	0.70	0.74
	WCDMA II	16	0.099	23.81	24	1.045	0.103	52	0.48	16.24	16.5	1.062	0.510	0.58	0.61

	WWAN			Scaled WWAN				WLAN		Scaled WLAN5G				WWAN + WLAN	Scaled WWAN + Scaled WLAN
Position	WWAN Band	Plot No	Max. WWAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WWAN (W/kg)	Plot No	Max. WLAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WLAN (W/kg)		
Right Cheek	WCDMA V	9	0.336	23.36	23.5	1.033	0.347	76	0.309	13.42	14	1.143	0.353	0.65	0.70
	WCDMA II	13	0.215	23.81	24	1.045	0.225	76	0.309	13.42	14	1.143	0.353	0.52	0.58
Right Tilted	WCDMA V	10	0.231	23.36	23.5	1.033	0.239	77	0.263	13.42	14	1.143	0.301	0.49	0.54
	WCDMA II	14	0.099	23.81	24	1.045	0.103	77	0.263	13.42	14	1.143	0.301	0.36	0.40
Left Cheek	WCDMA V	11	0.386	23.36	23.5	1.033	0.399	78	0.602	13.42	14	1.143	0.688	0.99	1.09
	WCDMA II	15	0.232	23.81	24	1.045	0.242	78	0.602	13.42	14	1.143	0.688	0.83	0.93
Left Tilted	WCDMA V	12	0.219	23.36	23.5	1.033	0.226	79	0.454	13.42	14	1.143	0.519	0.67	0.75
	WCDMA II	16	0.099	23.81	24	1.045	0.103	79	0.454	13.42	14	1.143	0.519	0.55	0.62

<Hotspot SAR>

Position	WWAN			Scaled WWAN				WLAN		Scaled WLAN2.4G				WWAN + WLAN	Scaled WWAN + Scaled WLAN
	WWAN Band	Plot No	Max. WWAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WWAN (W/kg)	Plot No	Max. WLAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WLAN (W/kg)		
Front	GSM850	32	0.702	29.79	30	1.050	0.737	53	0.125	16.24	16.5	1.062	0.133	0.83	0.87
	GSM1900	17	0.302	26.39	26.5	1.026	0.310	53	0.125	16.24	16.5	1.062	0.133	0.43	0.44
	WCDMA V	42	0.476	23.36	23.50	1.033	0.492	53	0.125	16.24	16.5	1.062	0.133	0.60	0.63
	WCDMA II	25	0.377	23.81	24	1.045	0.394	53	0.125	16.24	16.5	1.062	0.133	0.50	0.53
Back	GSM850	35	0.945	29.76	30	1.057	0.999	54	0.138	16.24	16.5	1.062	0.147	1.08	1.15
	GSM1900	18	0.356	26.39	26.5	1.026	0.365	54	0.138	16.24	16.5	1.062	0.147	0.49	0.51
	WCDMA V	43	0.673	23.36	23.5	1.033	0.695	54	0.138	16.24	16.5	1.062	0.147	0.81	0.84
	WCDMA II	26	0.465	23.81	24	1.045	0.486	54	0.138	16.24	16.5	1.062	0.147	0.60	0.63
Left Side	GSM850	38	0.794	29.79	30	1.050	0.833	-	0	0	0	0	0	0.79	0.83
	GSM1900	19	0.135	26.39	26.5	1.026	0.138	-	0	0	0	0	0	0.14	0.14
	WCDMA V	44	0.525	23.36	23.5	1.033	0.542	-	0	0	0	0	0	0.53	0.54
	WCDMA II	27	0.145	23.81	24	1.045	0.151	-	0	0	0	0	0	0.15	0.15
Right Side	GSM850	-	0	0	0	0	0	56	0.107	16.24	16.5	1.062	0.114	0.65	0.68
	GSM1900	-	0	0	0	0	0	56	0.107	16.24	16.5	1.062	0.114	0.18	0.19
	WCDMA V	-	0	0	0	0	0	56	0.107	16.24	16.5	1.062	0.114	0.47	0.49
	WCDMA II	-	0	0	0	0	0	56	0.107	16.24	16.5	1.062	0.114	0.17	0.18
Top Side	GSM850	-	0	0	0	0	0	57	0.152	16.24	16.5	1.062	0.161	0.18	0.19
	GSM1900	-	0	0	0	0	0	57	0.152	16.24	16.5	1.062	0.161	0.18	0.19
	WCDMA V	-	0	0	0	0	0	57	0.152	16.24	16.5	1.062	0.161	0.17	0.18
	WCDMA II	-	0	0	0	0	0	57	0.152	16.24	16.5	1.062	0.161	0.21	0.22
Bottom Side	GSM850	41	0.39	29.79	30	1.050	0.409	-	0	0	0	0	0	0.39	0.41
	GSM1900	22	0.404	26.39	26.5	1.026	0.414	-	0	0	0	0	0	0.40	0.41
	WCDMA V	47	0.189	23.36	23.5	1.033	0.195	-	0	0	0	0	0	0.19	0.20
	WCDMA II	30	0.596	23.81	24	1.045	0.623	-	0	0	0	0	0	0.60	0.62

Position	WWAN			Scaled WWAN				WLAN		Scaled WLAN5G				WWAN + WLAN	Scaled WWAN + Scaled WLAN
	WWAN Band	Plot No	Max. WWAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WWAN (W/kg)	Plot No	Max. WLAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WLAN (W/kg)		
Front	GSM850	32	0.702	29.79	30	1.050	0.737	90	0.019	12.78	13	1.051	0.020	0.72	0.76
	GSM1900	17	0.302	26.39	26.5	1.026	0.310	90	0.019	12.78	13	1.051	0.020	0.32	0.33
	WCDMA V	42	0.476	23.36	23.5	1.033	0.492	90	0.019	12.78	13	1.051	0.020	0.50	0.51
	WCDMA II	25	0.377	23.81	24	1.045	0.394	90	0.019	12.78	13	1.051	0.020	0.40	0.41
Back	GSM850	35	0.945	29.76	30	1.057	0.999	91	0.093	12.78	13	1.051	0.098	1.04	1.10
	GSM1900	18	0.356	26.39	26.5	1.026	0.365	91	0.093	12.78	13	1.051	0.098	0.45	0.46
	WCDMA V	43	0.673	23.36	23.5	1.033	0.695	91	0.093	12.78	13	1.051	0.098	0.77	0.79
	WCDMA II	26	0.465	23.81	24	1.045	0.486	91	0.093	12.78	13	1.051	0.098	0.56	0.58
Left Side	GSM850	38	0.794	29.79	30	1.050	0.833	-	0	0	0	0	0	0.79	0.83
	GSM1900	19	0.135	26.39	26.5	1.026	0.138	-	0	0	0	0	0	0.14	0.14
	WCDMA V	44	0.525	23.36	23.5	1.033	0.542	-	0	0	0	0	0	0.53	0.54
	WCDMA II	27	0.145	23.81	24	1.045	0.151	-	0	0	0	0	0	0.15	0.15
Right Side	GSM850	-	0	0	0	0	0	93	0.071	12.78	13	1.051	0.075	0.61	0.64
	GSM1900	-	0	0	0	0	0	93	0.071	12.78	13	1.051	0.075	0.15	0.15
	WCDMA V	-	0	0	0	0	0	93	0.071	12.78	13	1.051	0.075	0.44	0.45
	WCDMA II	-	0	0	0	0	0	93	0.071	12.78	13	1.051	0.075	0.13	0.14
Top Side	GSM850	-	0	0	0	0	0	94	0.02	12.78	13	1.051	0.021	0.05	0.05
	GSM1900	-	0	0	0	0	0	94	0.02	12.78	13	1.051	0.021	0.05	0.05
	WCDMA V	-	0	0	0	0	0	94	0.02	12.78	13	1.051	0.021	0.04	0.04
	WCDMA II	-	0	0	0	0	0	94	0.02	12.78	13	1.051	0.021	0.08	0.08
Bottom Side	GSM850	41	0.39	29.79	30	1.050	0.409	-	0	0	0	0	0	0.39	0.41
	GSM1900	22	0.404	26.39	26.5	1.026	0.414	-	0	0	0	0	0	0.40	0.41
	WCDMA V	47	0.189	23.36	23.5	1.033	0.195	-	0	0	0	0	0	0.19	0.20
	WCDMA II	30	0.596	23.81	24	1.045	0.623	-	0	0	0	0	0	0.60	0.62

<Body-worn SAR>

Position	WWAN			Scaled WWAN				WLAN		Scaled WLAN2.4G				WWAN + WLAN	Scaled WWAN + Scaled WLAN
	WWAN Band	Plot No	Max. WWAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WWAN (W/kg)	Plot No	Max. WLAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WLAN (W/kg)		
Front	GSM850	32	0.702	29.79	30	1.050	0.737	53	0.125	16.24	16.5	1.062	0.133	0.83	0.87
	GSM1900	17	0.302	26.39	26.5	1.026	0.310	53	0.125	16.24	16.5	1.062	0.133	0.43	0.44
	WCDMA V	42	0.476	23.36	23.5	1.033	0.492	53	0.125	16.24	16.5	1.062	0.133	0.60	0.63
	WCDMA II	25	0.377	23.81	24	1.045	0.394	53	0.125	16.24	16.5	1.062	0.133	0.50	0.53
Back	GSM850	35	0.945	29.76	30	1.057	0.999	54	0.138	16.24	16.5	1.062	0.147	1.08	1.15
	GSM1900	18	0.356	26.39	26.5	1.026	0.365	54	0.138	16.24	16.5	1.062	0.147	0.49	0.51
	WCDMA V	43	0.673	23.36	23.5	1.033	0.695	54	0.138	16.24	16.5	1.062	0.147	0.81	0.84
	WCDMA II	26	0.465	23.81	24	1.045	0.486	54	0.138	16.24	16.5	1.062	0.147	0.60	0.63
Front (w/ Headset)	GSM850	36	0.324	33.17	33.5	1.079	0.350	-	0	0	0	0	0	0.32	0.35
	GSM1900	23	0.182	30.39	30.5	1.026	0.187	-	0	0	0	0	0	0.18	0.19
	WCDMA V	-	0	0	0	0	0	-	0	0	0	0	0	0.00	0.00
	WCDMA II	-	0	0	0	0	0	-	0	0	0	0	0	0.00	0.00
Back (w/ Headset)	GSM850	37	0.484	33.17	33.5	1.079	0.522	59	0.122	16.24	16.5	1.062	0.130	0.61	0.65
	GSM1900	24	0.24	30.39	30.5	1.026	0.246	59	0.122	16.24	16.5	1.062	0.130	0.36	0.38
	WCDMA V	48	0.531	23.36	23.5	1.033	0.548	59	0.122	16.24	16.5	1.062	0.130	0.65	0.68
	WCDMA II	31	0.475	23.81	24	1.045	0.496	59	0.122	16.24	16.5	1.062	0.130	0.60	0.63

Position	WWAN			Scaled WWAN				WLAN		Scaled WLAN5G				WWAN + WLAN	Scaled WWAN + Scaled WLAN
	WWAN Band	Plot No	Max. WWAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WWAN (W/kg)	Plot No	Max. WLAN SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Scaling Factor	Scaled WLAN (W/kg)		
Front	GSM850	32	0.702	29.79	30	1.050	0.737	88	0.091	13.42	14	1.143	0.104	0.79	0.84
	GSM1900	17	0.302	26.39	26.5	1.026	0.310	88	0.091	13.42	14	1.143	0.104	0.39	0.41
	WCDMA V	42	0.476	23.36	23.5	1.033	0.492	88	0.091	13.42	14	1.143	0.104	0.57	0.60
	WCDMA II	25	0.377	23.81	24	1.045	0.394	88	0.091	13.42	14	1.143	0.104	0.47	0.50
Back	GSM850	35	0.945	29.76	30	1.057	0.999	89	0.342	13.42	14	1.143	0.391	1.29	1.39
	GSM1900	18	0.356	26.39	26.5	1.026	0.365	89	0.342	13.42	14	1.143	0.391	0.70	0.76
	WCDMA V	43	0.673	23.36	23.5	1.033	0.695	89	0.342	13.42	14	1.143	0.391	1.02	1.09
	WCDMA II	26	0.465	23.81	24	1.045	0.486	89	0.342	13.42	14	1.143	0.391	0.81	0.88
Front (w/ Headset)	GSM850	36	0.324	33.17	33.5	1.079	0.350	-	0	0	0	0	0	0.32	0.35
	GSM1900	23	0.182	30.39	30.5	1.026	0.187	-	0	0	0	0	0	0.18	0.19
	WCDMA V	-	0	0	0	0	0	-	0	0	0	0	0	0.00	0.00
	WCDMA II	-	0	0	0	0	0	-	0	0	0	0	0	0.00	0.00
Back (w/ Headset)	GSM850	37	0.484	33.17	33.5	1.079	0.522	99	0.323	13.42	14	1.143	0.369	0.81	0.89
	GSM1900	24	0.24	30.39	30.5	1.026	0.246	99	0.323	13.42	14	1.143	0.369	0.56	0.62
	WCDMA V	48	0.531	23.36	23.5	1.033	0.548	99	0.323	13.42	14	1.143	0.369	0.85	0.92
	WCDMA II	31	0.475	23.81	24	1.045	0.496	99	0.323	13.42	14	1.143	0.369	0.80	0.87

Test Engineer : Michael Yang, Angelo Chang, Cona Huang, Ken Li, and Jack Wu

12. Uncertainty Assessment

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in Table 12.1

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	1/ κ ^(b)	1/ $\sqrt{3}$	1/ $\sqrt{6}$	1/ $\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) κ is the coverage factor

Table 12.1 Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)
Measurement System							
Probe Calibration	6.0	Normal	1	1	1	± 6.0 %	± 6.0 %
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	± 1.9 %	± 1.9 %
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	± 3.9 %	± 3.9 %
Boundary Effects	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Linearity	4.7	Rectangular	√3	1	1	± 2.7 %	± 2.7 %
System Detection Limits	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Readout Electronics	0.3	Normal	1	1	1	± 0.3 %	± 0.3 %
Response Time	0.8	Rectangular	√3	1	1	± 0.5 %	± 0.5 %
Integration Time	2.6	Rectangular	√3	1	1	± 1.5 %	± 1.5 %
RF Ambient Noise	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
RF Ambient Reflections	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
Probe Positioner	0.4	Rectangular	√3	1	1	± 0.2 %	± 0.2 %
Probe Positioning	2.9	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
Max. SAR Eval.	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Test Sample Related							
Device Positioning	2.9	Normal	1	1	1	± 2.9 %	± 2.9 %
Device Holder	3.6	Normal	1	1	1	± 3.6 %	± 3.6 %
Power Drift	5.0	Rectangular	√3	1	1	± 2.9 %	± 2.9 %
Phantom and Setup							
Phantom Uncertainty	4.0	Rectangular	√3	1	1	± 2.3 %	± 2.3 %
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	0.43	± 1.8 %	± 1.2 %
Liquid Conductivity (Meas.)	2.5	Normal	1	0.64	0.43	± 1.6 %	± 1.1 %
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	0.49	± 1.7 %	± 1.4 %
Liquid Permittivity (Meas.)	2.5	Normal	1	0.6	0.49	± 1.5 %	± 1.2 %
Combined Standard Uncertainty						± 11.0 %	± 10.8 %
Coverage Factor for 95 %						K=2	
Expanded Uncertainty						± 22.0 %	± 21.5 %

Table 12.2 Uncertainty Budget of DASY for frequency range 300 MHz to 3 GHz

Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)
Measurement System							
Probe Calibration	6.55	Normal	1	1	1	± 6.55 %	± 6.55 %
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	± 1.9 %	± 1.9 %
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	± 3.9 %	± 3.9 %
Boundary Effects	2.0	Rectangular	√3	1	1	± 1.2 %	± 1.2 %
Linearity	4.7	Rectangular	√3	1	1	± 2.7 %	± 2.7 %
System Detection Limits	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Readout Electronics	0.3	Normal	1	1	1	± 0.3 %	± 0.3 %
Response Time	0.8	Rectangular	√3	1	1	± 0.5 %	± 0.5 %
Integration Time	2.6	Rectangular	√3	1	1	± 1.5 %	± 1.5 %
RF Ambient Noise	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
RF Ambient Reflections	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
Probe Positioner	0.8	Rectangular	√3	1	1	± 0.5 %	± 0.5 %
Probe Positioning	9.9	Rectangular	√3	1	1	± 5.7 %	± 5.7 %
Max. SAR Eval.	4.0	Rectangular	√3	1	1	± 2.3 %	± 2.3 %
Test Sample Related							
Device Positioning	2.9	Normal	1	1	1	± 2.9 %	± 2.9 %
Device Holder	3.6	Normal	1	1	1	± 3.6 %	± 3.6 %
Power Drift	5.0	Rectangular	√3	1	1	± 2.9 %	± 2.9 %
Phantom and Setup							
Phantom Uncertainty	4.0	Rectangular	√3	1	1	± 2.3 %	± 2.3 %
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	0.43	± 1.8 %	± 1.2 %
Liquid Conductivity (Meas.)	2.5	Normal	1	0.64	0.43	± 1.6 %	± 1.1 %
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	0.49	± 1.7 %	± 1.4 %
Liquid Permittivity (Meas.)	2.5	Normal	1	0.6	0.49	± 1.5 %	± 1.2 %
Combined Standard Uncertainty						± 12.8 %	± 12.6 %
Coverage Factor for 95 %						K=2	
Expanded Uncertainty						± 25.6 %	± 25.2 %

Table 12.3 Uncertainty Budget of DASY for frequency range 3 GHz to 6 GHz

13. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- [4] FCC OET Bulletin 65 (Edition 97-01) Supplement C (Edition 01-01), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", June 2001
- [5] SPEAG DASY System Handbook
- [6] FCC KDB 248227 D01 v01r02, "SAR Measurement Procedures for 802.11 a/b/g Transmitters", May 2007
- [7] FCC KDB 447498 D01 v04, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", November 2009
- [8] FCC KDB 648474 D01 v01r05, "SAR Evaluation Considerations for Handsets with Multiple Transmitters and Antennas", September 2008
- [9] FCC KDB 941225 D01 v02, "SAR Measurement Procedures for 3G Devices – CDMA 2000 / Ev-Do / WCDMA / HSDPA / HSPA", October 2007
- [10] FCC KDB 941225 D02 v02 "3GPP R6 HSPA and R7 HSPA+ SAR Guidance", December 2009.
- [11] FCC KDB 941225 D03 v01, "Recommended SAR Test Reduction Procedures for GSM / GPRS / EDGE", December 2008
- [12] FCC KDB 941225 D06 v01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", April 2011



Appendix A. Plots of System Performance Check

The plots are shown as follows.

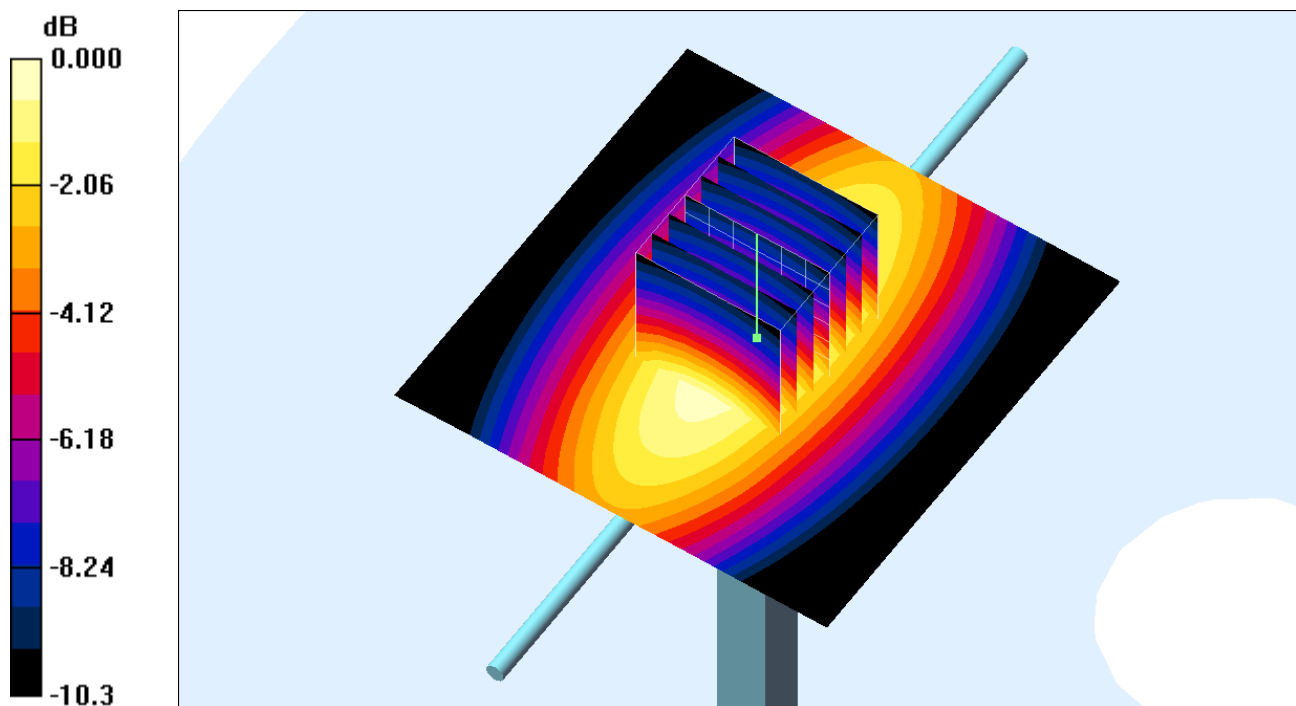
System Check_Head_835MHz_121002**DUT: D835V2-SN:499**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_850_121002 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 40.8$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.6°C ; Liquid Temperature : 21.6°C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.12, 6.12, 6.12); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 2.69 mW/g **Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 57.2 V/m ; Power Drift = 0.010 dB Peak SAR (extrapolated) = 3.50 W/kg **SAR(1 g) = 2.47 mW/g ; SAR(10 g) = 1.63 mW/g** Maximum value of SAR (measured) = 2.68 mW/g 0 dB = 2.68 mW/g

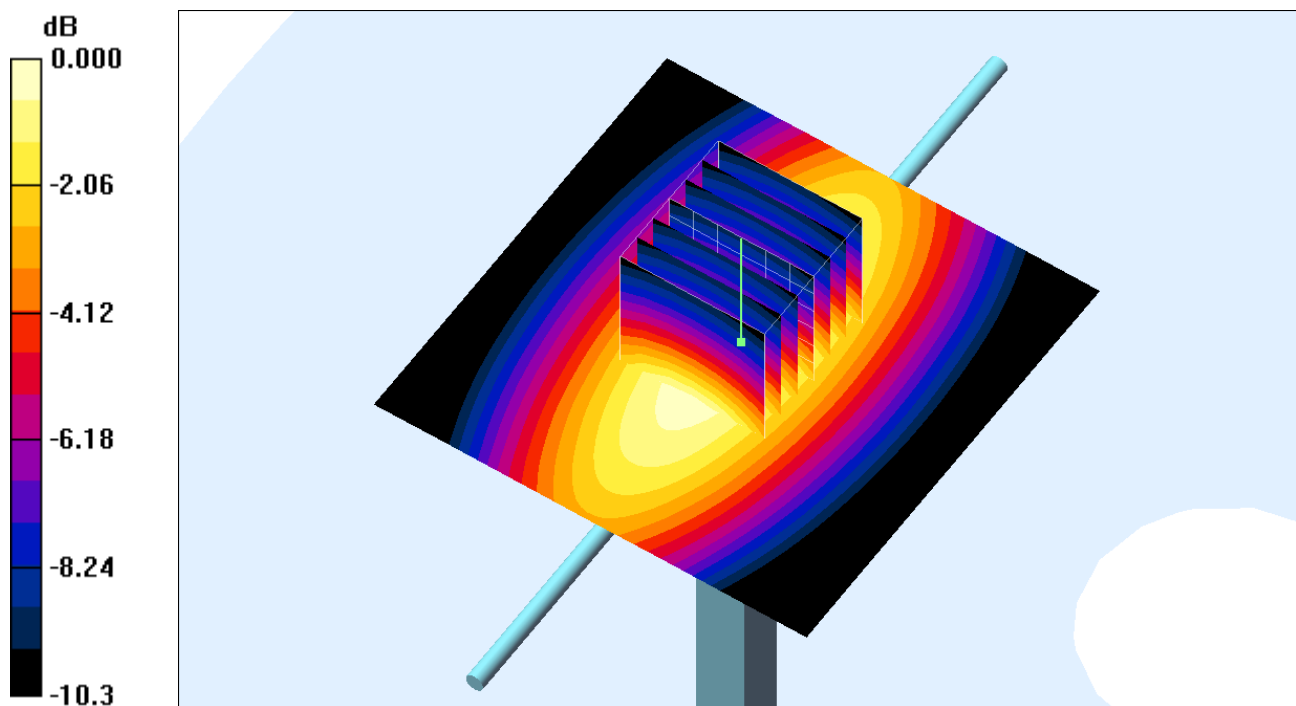
System Check_Head_835MHz_121003**DUT: D835V2-SN:499**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_850_121003 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.894 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.6°C ; Liquid Temperature : 21.6°C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.12, 6.12, 6.12); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 2.63 mW/g **Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 56.8 V/m ; Power Drift = -0.033 dB Peak SAR (extrapolated) = 3.44 W/kg **SAR(1 g) = 2.43 mW/g ; SAR(10 g) = 1.6 mW/g** Maximum value of SAR (measured) = 2.64 mW/g 0 dB = 2.64 mW/g

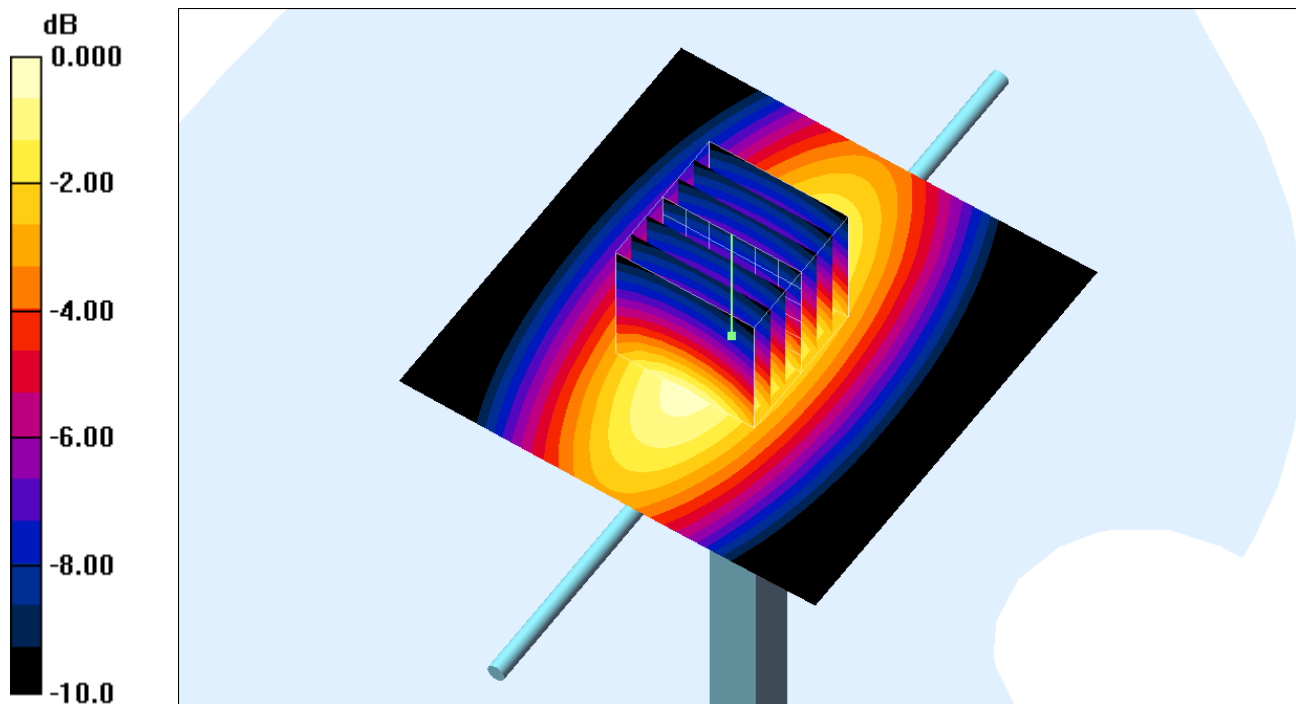
System Check_Body_835MHz_121003**DUT: D835V2-SN:499**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL_850_121003 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.963 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.5°C ; Liquid Temperature : 21.5°C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 1.51 mW/g **Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 40.2 V/m ; Power Drift = 0.023 dB Peak SAR (extrapolated) = 1.94 W/kg **SAR(1 g) = 2.6 mW/g ; SAR(10 g) = 1.7 mW/g** Maximum value of SAR (measured) = 1.50 mW/g 0 dB = 1.50 mW/g

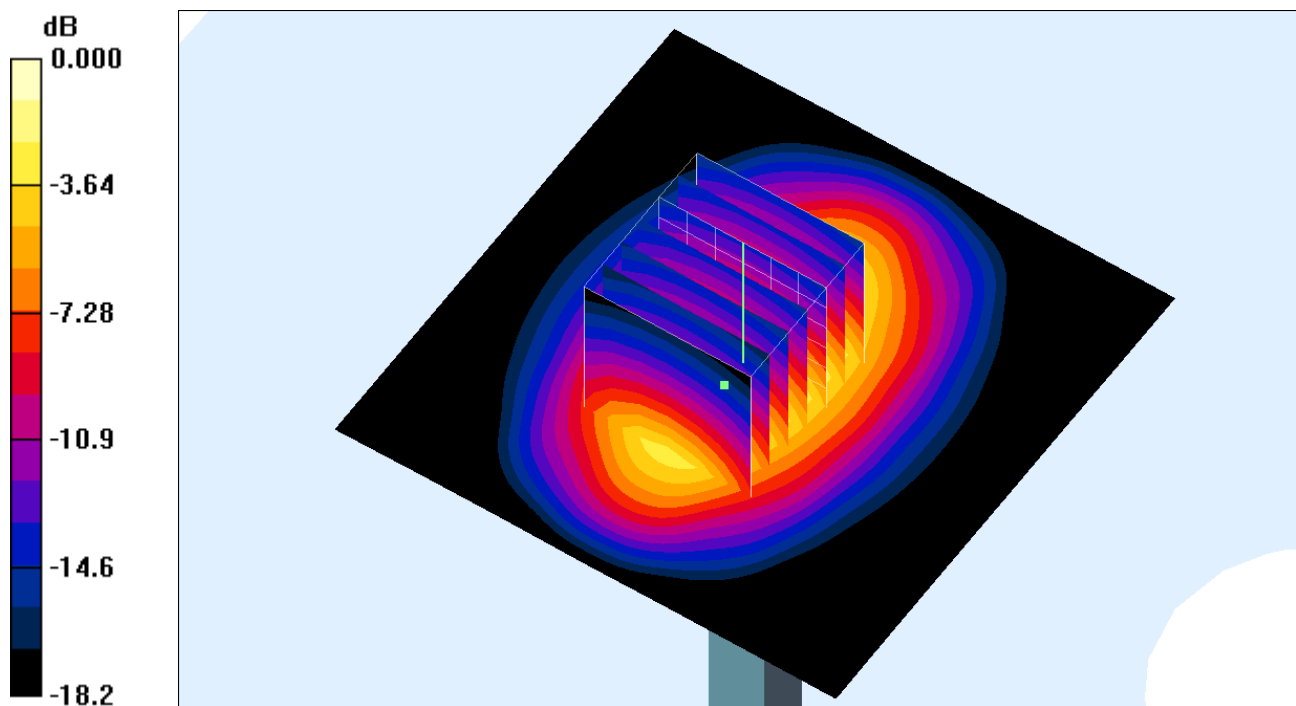
System Check_Head_1900MHz_121002**DUT: D1900V2-SN:5d041**

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

Medium: HSL_1900_121002 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.6°C ; Liquid Temperature : 21.6°C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(5.06, 5.06, 5.06); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 11.1 mW/g **Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 91.6 V/m ; Power Drift = -0.006 dB Peak SAR (extrapolated) = 15.9 W/kg **SAR(1 g) = 9.49 mW/g ; SAR(10 g) = 5.07 mW/g** Maximum value of SAR (measured) = 10.8 mW/g 0 dB = 10.8 mW/g

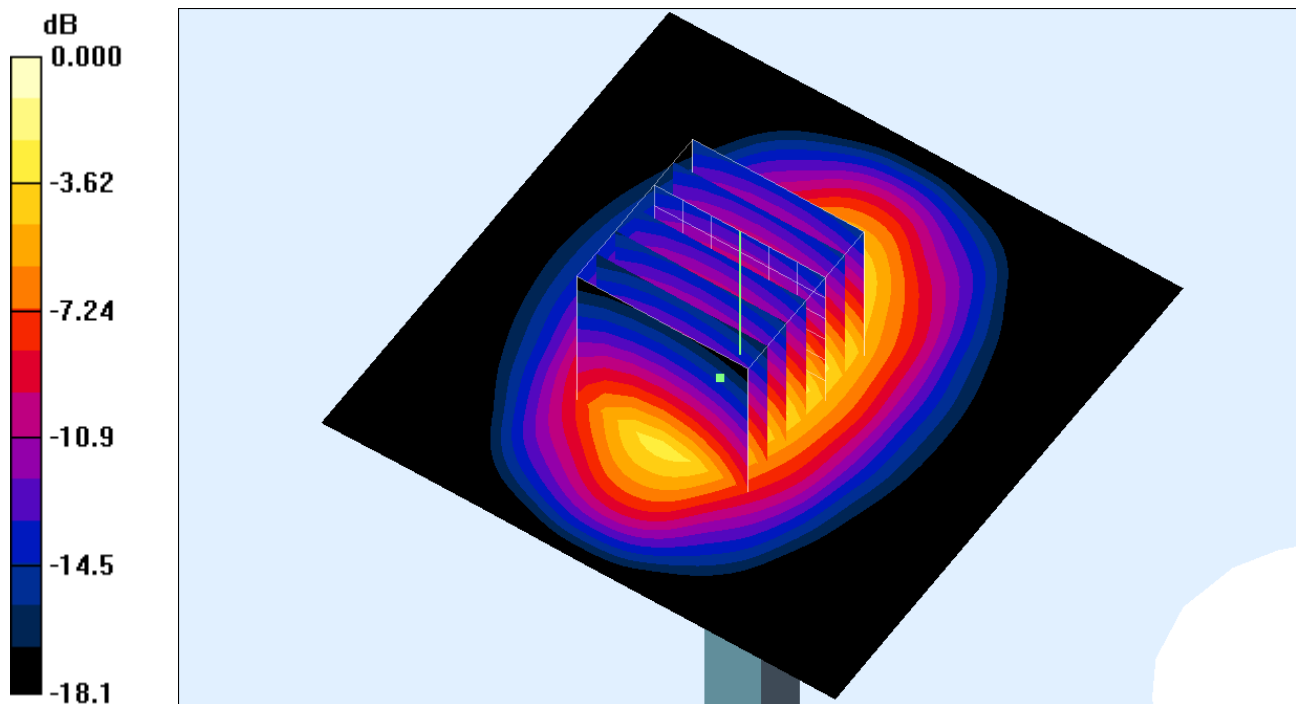
System Check_Head_1900MHz_121003**DUT: DipD1900V2-SN:5d041**

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

Medium: HSL_1900_121003 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.6°C ; Liquid Temperature : 21.6°C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(5.06, 5.06, 5.06); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 11.8 mW/g **Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 94.3 V/m ; Power Drift = 0.113 dB Peak SAR (extrapolated) = 17.0 W/kg **SAR(1 g) = 10.2 mW/g ; SAR(10 g) = 5.45 mW/g** Maximum value of SAR (measured) = 11.6 mW/g 0 dB = 11.6 mW/g

System Check_Body_1900MHz_121002**DUT: D1900V2-SN:5d041**

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

Medium: MSL_1900_121002 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.6 mW/g

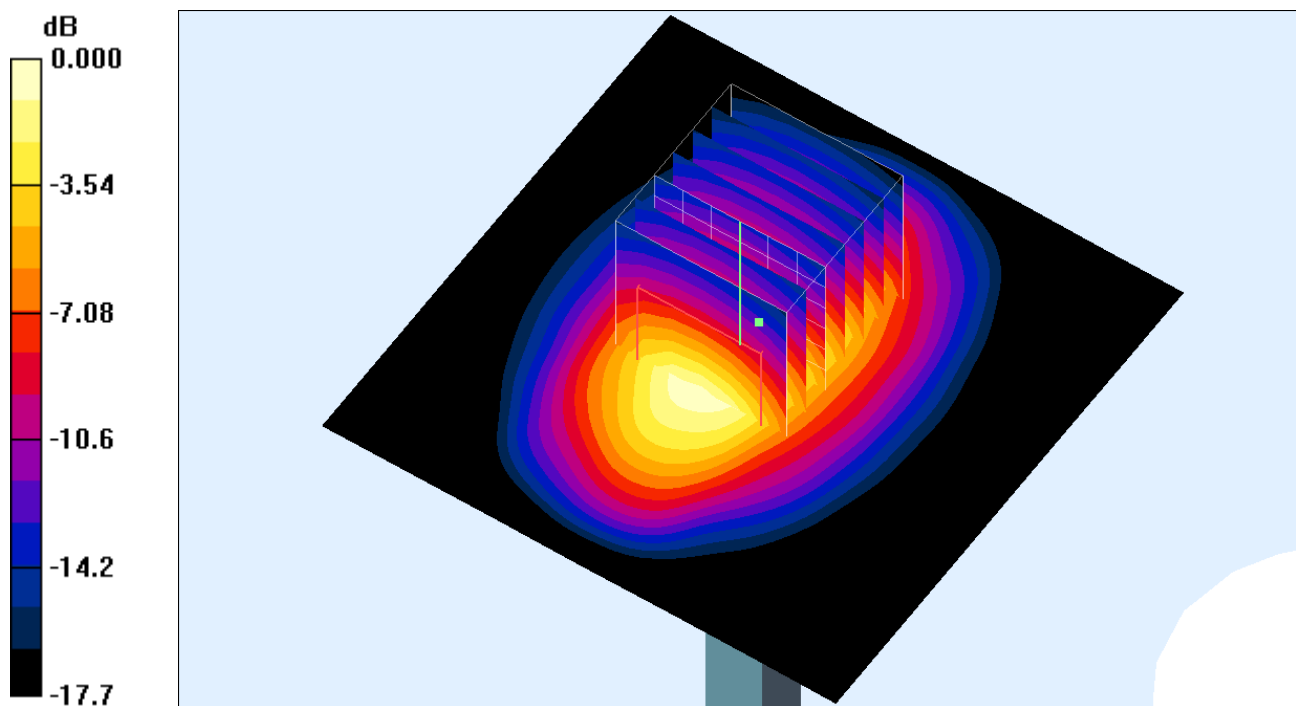
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.3 V/m; Power Drift = -0.004 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 10.3 mW/g; SAR(10 g) = 5.56 mW/g

Maximum value of SAR (measured) = 11.9 mW/g



0 dB = 11.9mW/g

System Check_Body_1900MHz_121002**DUT: D1900V2-SN:5d041**

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

Medium: MSL_1900_121002 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.2 mW/g

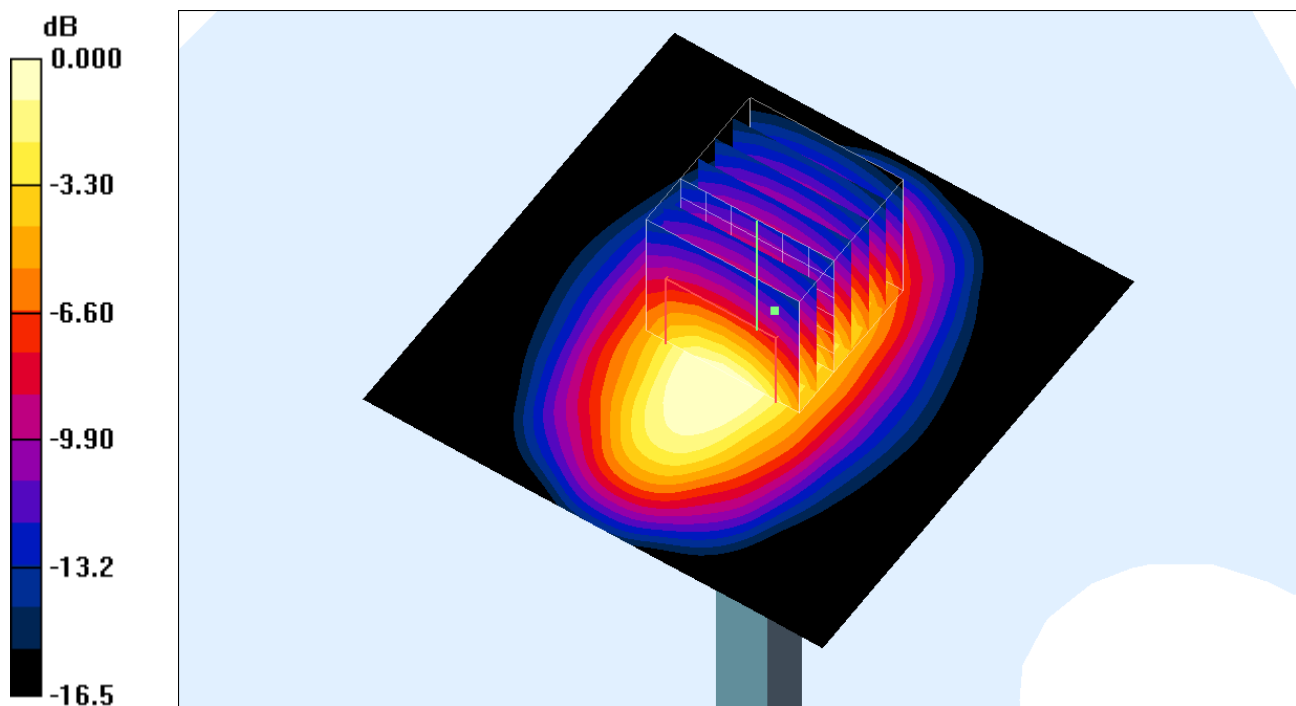
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.7 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 13.9 W/kg

SAR(1 g) = 9.58 mW/g; SAR(10 g) = 5.2 mW/g

Maximum value of SAR (measured) = 9.01 mW/g



0 dB = 9.01mW/g

System Check_Head_2450MHz_121003**DUT: D2450V2-SN:736**

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

Medium: HSL_2450_121003 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.55, 4.55, 4.55); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 13.2 mW/g

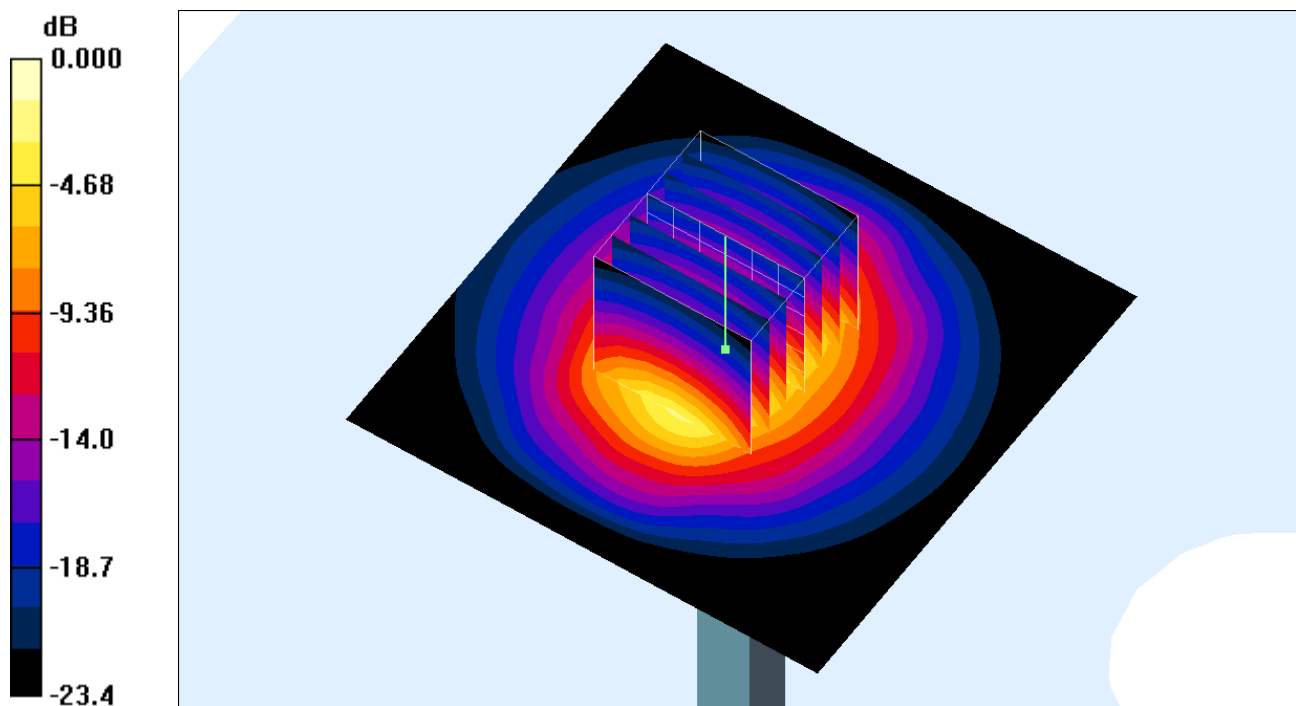
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.6 V/m; Power Drift = 0.161 dB

Peak SAR (extrapolated) = 25.3 W/kg

SAR(1 g) = 13.5 mW/g; SAR(10 g) = 7.17 mW/g

Maximum value of SAR (measured) = 13.2 mW/g



0 dB = 13.2mW/g

System Check_Body_2450MHz_121003**DUT: D2450V2-SN:736**

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

Medium: MSL_2450_121003 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.28, 4.28, 4.28); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 13.3 mW/g

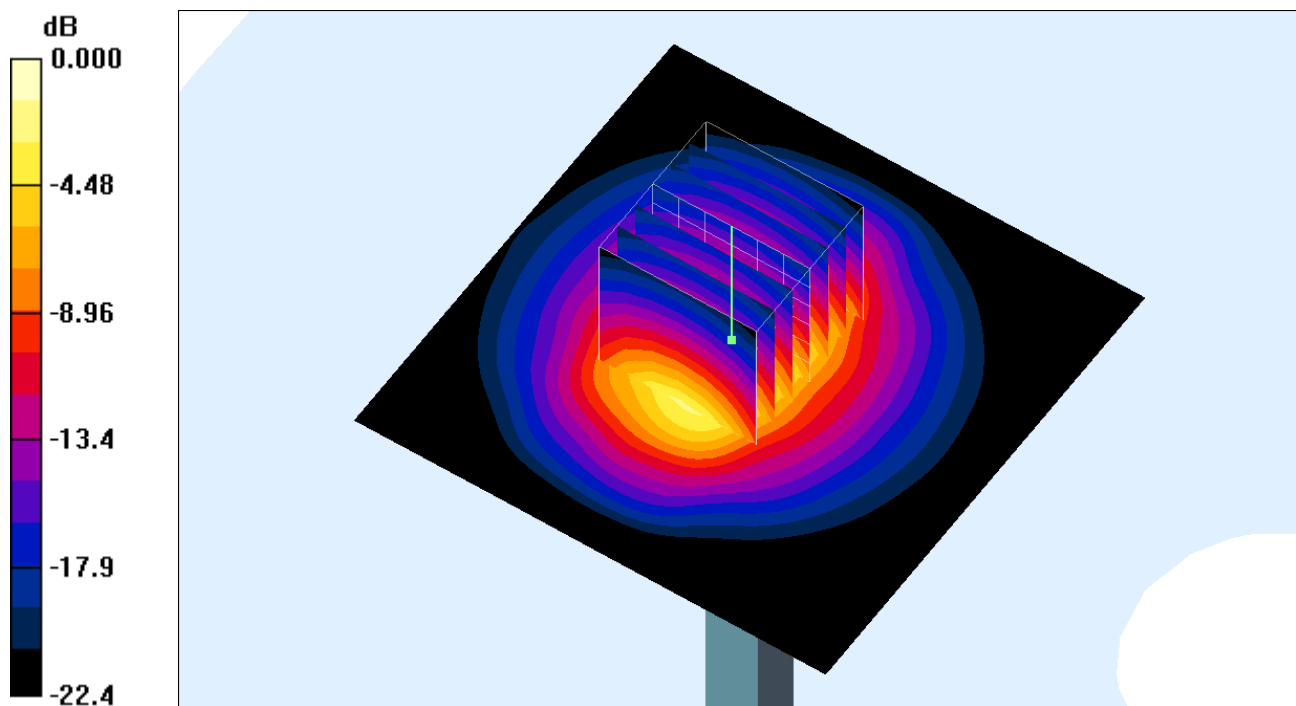
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 78.2 V/m; Power Drift = 0.166 dB

Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 12.2 mW/g; SAR(10 g) = 5.36 mW/g

Maximum value of SAR (measured) = 13.6 mW/g



0 dB = 13.6mW/g

System Check_Head_5200MHz_121005**DUT: D5GHzV2-SN:1006**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.793$ mho/m; $\epsilon_r = 35.493$; $\rho =$

1000 kg/m^3

Ambient Temperature : 22.8°C ; Liquid Temperature : 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(5.07, 5.07, 5.07); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2012/4/23
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Pin=100mW/Area Scan (91x91x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 34.7 mW/g

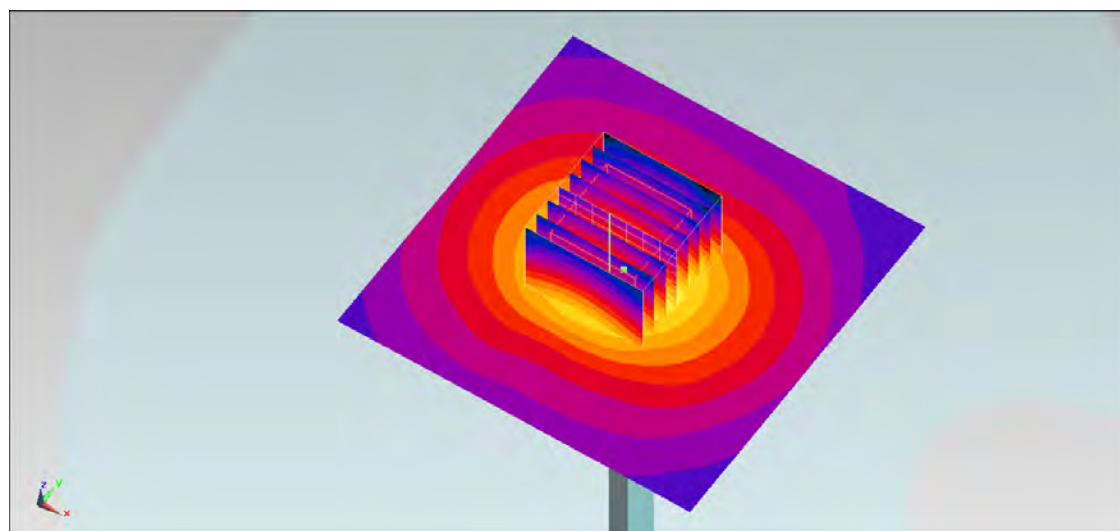
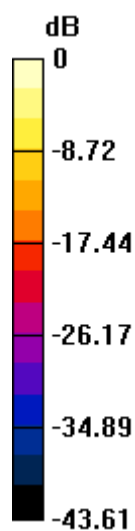
Pin=100mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$

Reference Value = 83.173 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 79.003 mW/g

SAR(1 g) = 20.9 mW/g ; SAR(10 g) = 5.82 mW/g

Maximum value of SAR (measured) = 30.8 mW/g



0 dB = 30.8 mW/g = 29.77 dB mW/g

System Check_Body_5200MHz_121006**DUT: D5GHzV2-SN:1006**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.27$ mho/m; $\epsilon_r = 47.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.93, 3.93, 3.93); Calibrated: 2012/6/21
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 26.8 mW/g

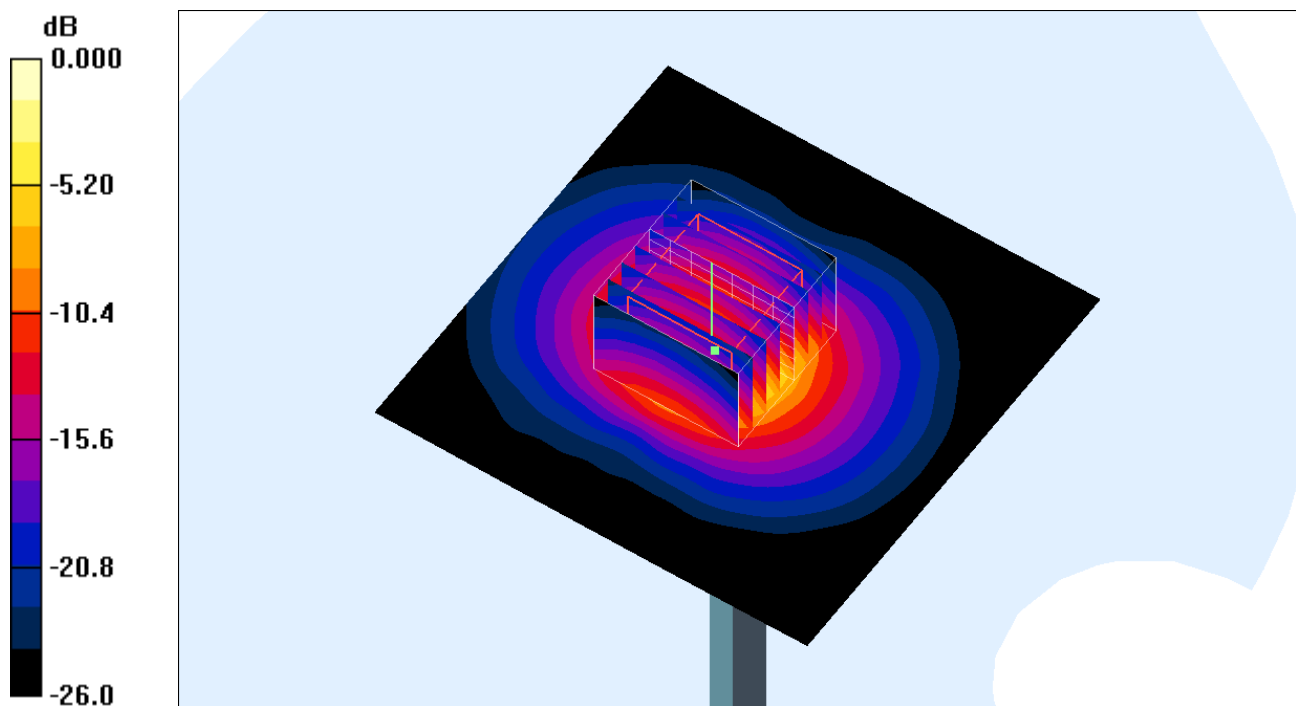
Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 70.1 V/m; Power Drift = 0.138 dB

Peak SAR (extrapolated) = 40.8 W/kg

SAR(1 g) = 17.2 mW/g; SAR(10 g) = 4.8 mW/g

Maximum value of SAR (measured) = 24.6 mW/g



0 dB = 24.6mW/g

System Check_Body_5200MHz_121009**DUT: D5GHzV2-SN:1006**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121009 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.279$ mho/m; $\epsilon_r = 48.534$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.9 °C; Liquid Temperature : 21.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.93, 3.93, 3.93); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM-Left; Type: QD 000 P40 C; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Pin=250mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 28.3 mW/g

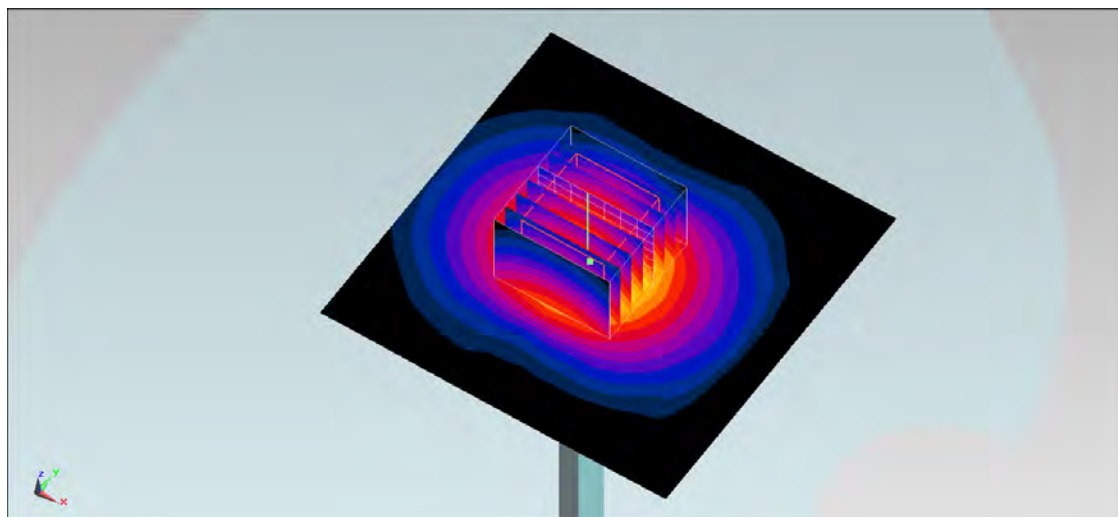
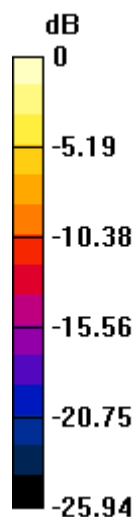
Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 0.611 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 40.612 mW/g

SAR(1 g) = 16.7 mW/g; SAR(10 g) = 5.61 mW/g

Maximum value of SAR (measured) = 25.0 mW/g



0 dB = 25.0 mW/g = 27.96 dB mW/g

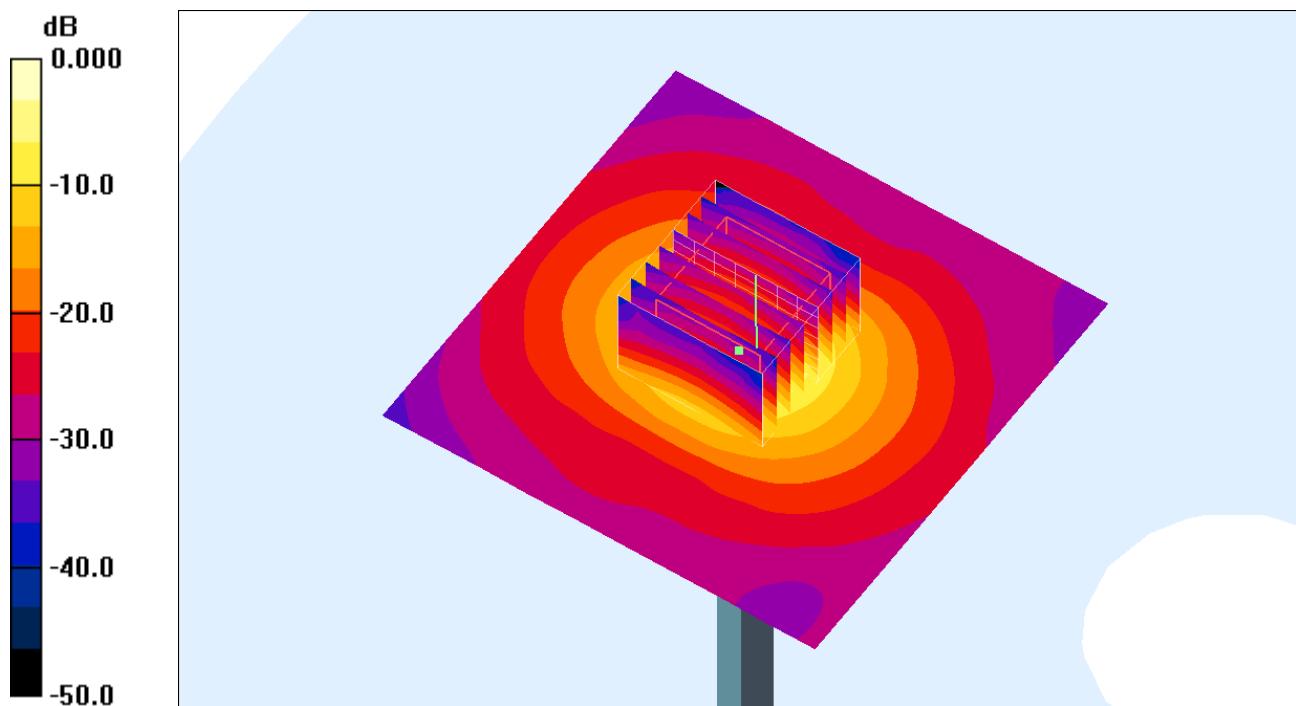
System Check_Head_5500MHz_121005**DUT: D5GHzV2-SN:1006**

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.12 \text{ mho/m}$; $\epsilon_r = 35$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.4°C ; Liquid Temperature : 21.4°C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(4.07, 4.07, 4.07); Calibrated: 2012/6/21
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (91x91x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 36.4 mW/g **Pin=250mW/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$ Reference Value = 86.4 V/m ; Power Drift = 0.001 dB Peak SAR (extrapolated) = 78.8 W/kg **SAR(1 g) = 19.9 mW/g ; SAR(10 g) = 5.5 mW/g** Maximum value of SAR (measured) = 34.7 mW/g 0 dB = 34.7 mW/g

System Check_Body_5500MHz_121006**DUT: D5GHzV2-SN:1006**

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.66 \text{ mho/m}$; $\epsilon_r = 47$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.45, 3.45, 3.45); Calibrated: 2012/6/21
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (91x91x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 30.3 mW/g

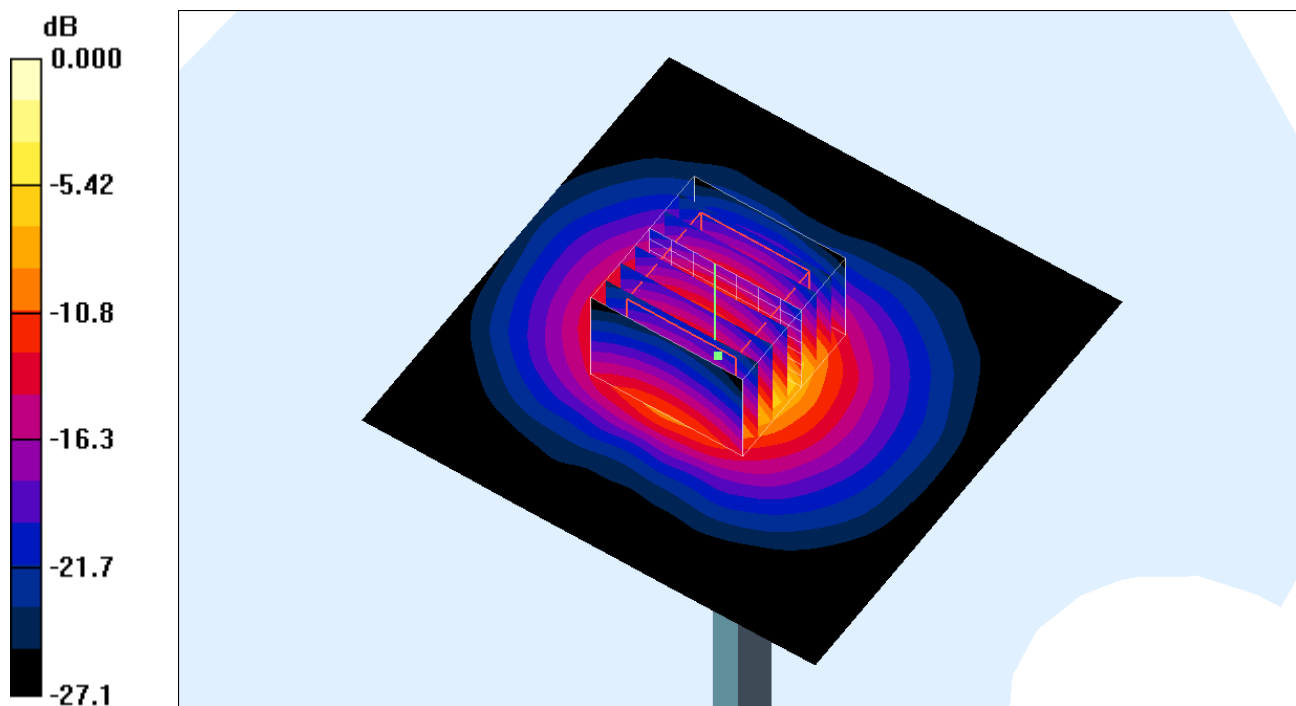
Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$

Reference Value = 72.3 V/m; Power Drift = 0.092 dB

Peak SAR (extrapolated) = 44.5 W/kg

SAR(1 g) = 18.4 mW/g; SAR(10 g) = 6.05 mW/g

Maximum value of SAR (measured) = 28.1 mW/g



0 dB = 28.1mW/g

System Check_Body_5500MHz_121009**DUT: D5GHzV2-SN:1006**

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121009 Medium parameters used: $f = 5500$ MHz; $\sigma = 5.717$ mho/m; $\epsilon_r = 47.955$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.9 °C; Liquid Temperature : 21.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.45, 3.45, 3.45); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Pin=250mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 30.6 mW/g

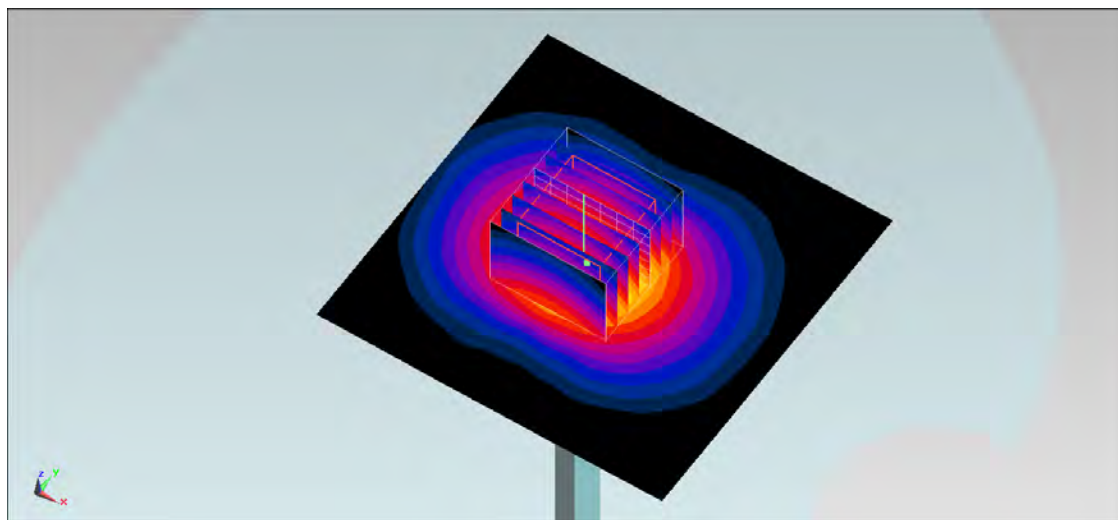
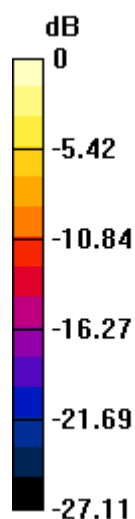
Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 72.272 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 44.971 mW/g

SAR(1 g) = 18.6 mW/g; SAR(10 g) = 6.11 mW/g

Maximum value of SAR (measured) = 28.4 mW/g



0 dB = 28.4 mW/g = 29.07 dB mW/g

System Check_Head_5800MHz_121005**DUT: D5GHzV2-SN:1006**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.41 \text{ mho/m}$; $\epsilon_r = 34.4$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.4°C ; Liquid Temperature : 21.4°C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.72, 3.72, 3.72); Calibrated: 2012/6/21
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (91x91x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 36.8 mW/g

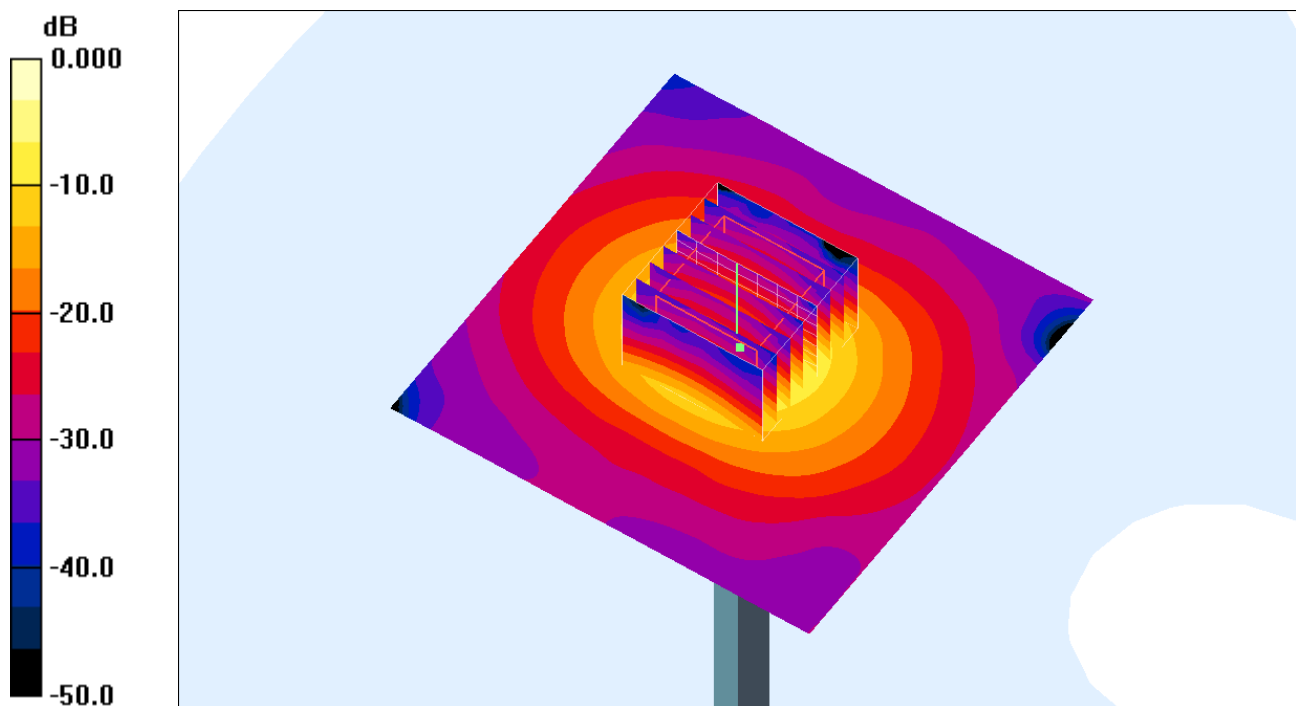
Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$

Reference Value = 89.1 V/m ; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 81.6 W/kg

SAR(1 g) = 20.3 mW/g ; SAR(10 g) = 5.66 mW/g

Maximum value of SAR (measured) = 36.0 mW/g



0 dB = 36.0 mW/g

System Check_Body_5800MHz_121006**DUT: D5GHzV2-SN:1006**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used: $f = 5800$ MHz; $\sigma = 6.15$ mho/m; $\epsilon_r = 46.5$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.43, 3.43, 3.43); Calibrated: 2012/6/21
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 28.9 mW/g

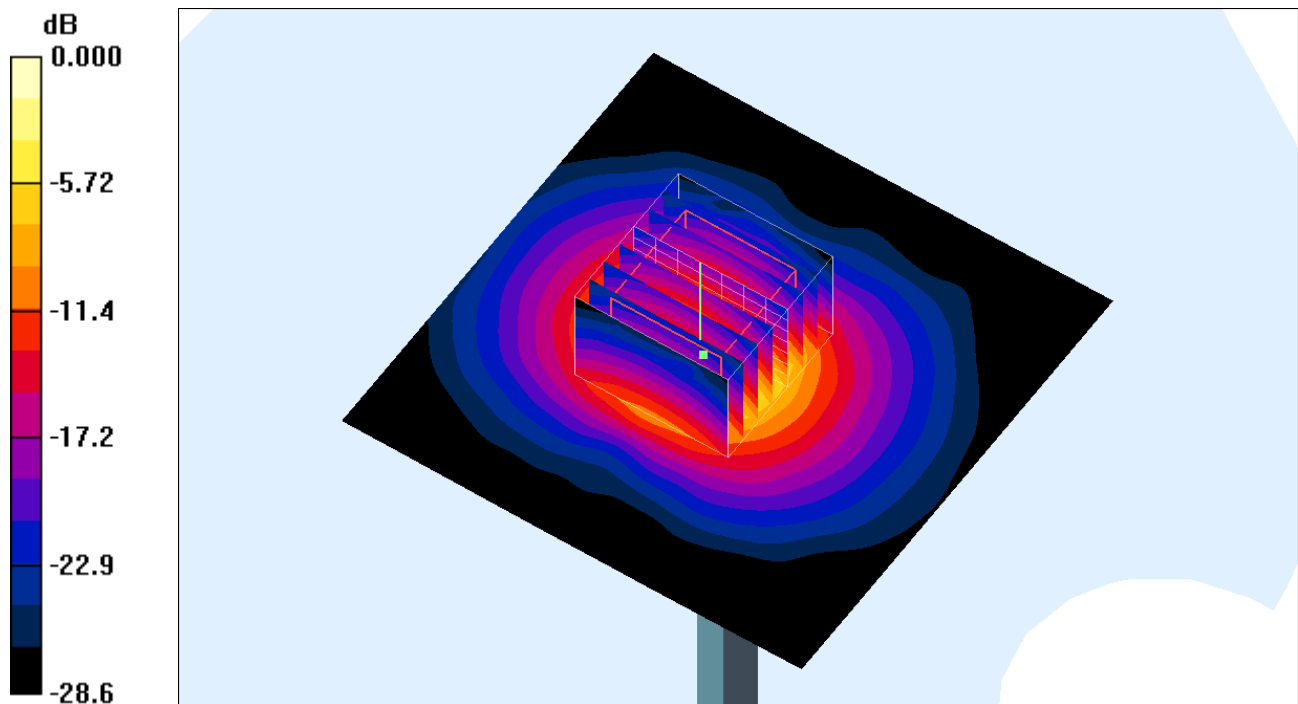
Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 67.1 V/m; Power Drift = 0.162 dB

Peak SAR (extrapolated) = 45.0 W/kg

SAR(1 g) = 17.4 mW/g; SAR(10 g) = 5.64 mW/g

Maximum value of SAR (measured) = 27.3 mW/g



0 dB = 27.3mW/g



Appendix B. Plots of SAR Measurement

The plots are shown as follows.

#01_GSM850_GSM Voice_Right Cheek_Ch189**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: HSL_850_121002 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.902$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.12, 6.12, 6.12); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.498 mW/g

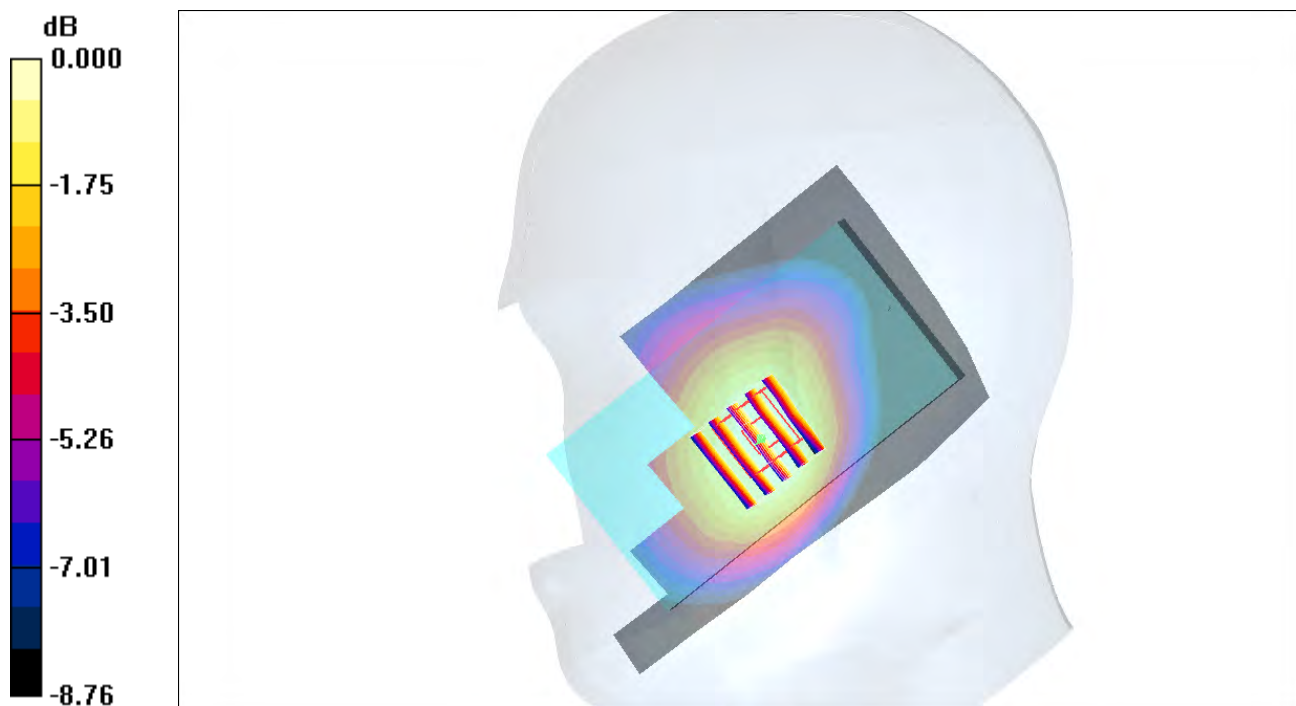
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.60 V/m; Power Drift = 0.166 dB

Peak SAR (extrapolated) = 0.566 W/kg

SAR(1 g) = 0.465 mW/g; SAR(10 g) = 0.351 mW/g

Maximum value of SAR (measured) = 0.491 mW/g



0 dB = 0.491mW/g

#02_GSM850_GSM Voice_Right Tilted_Ch189**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: HSL_850_121002 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.902$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.12, 6.12, 6.12); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.321 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.6 V/m; Power Drift = 0.116 dB

Peak SAR (extrapolated) = 0.358 W/kg

SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.241 mW/g

Maximum value of SAR (measured) = 0.319 mW/g

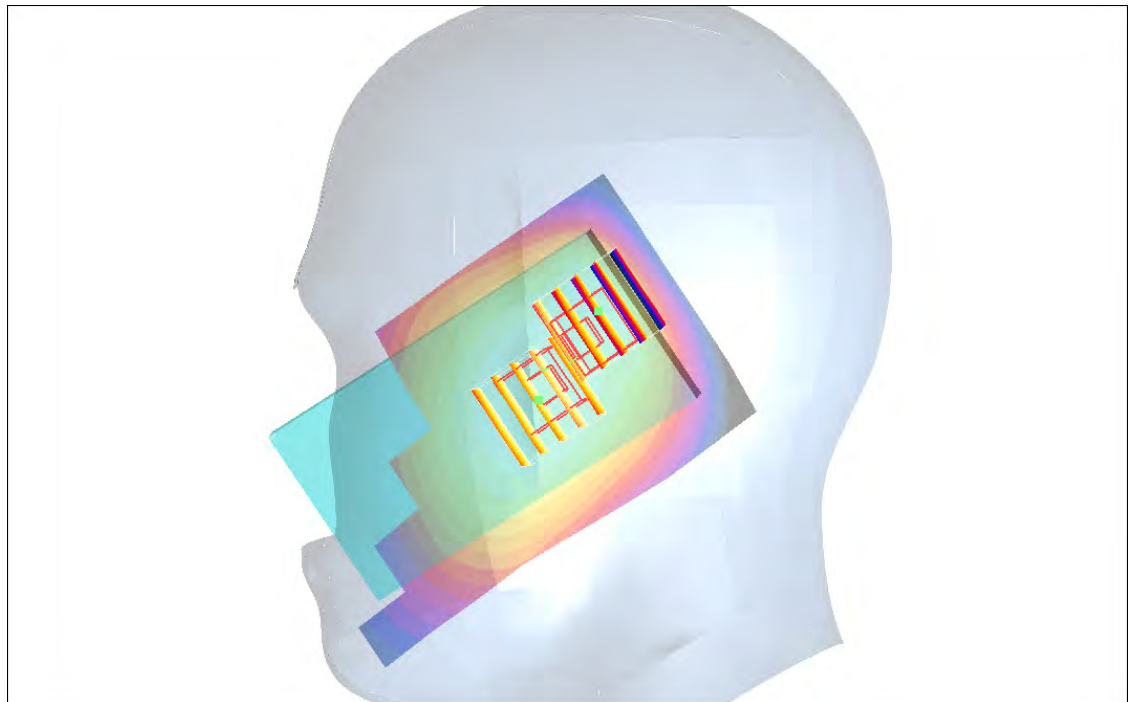
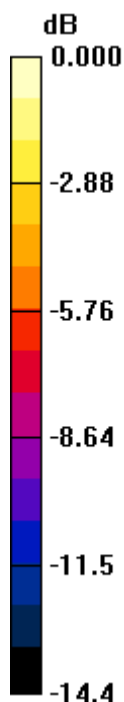
Ch189/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.6 V/m; Power Drift = 0.116 dB

Peak SAR (extrapolated) = 0.441 W/kg

SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.163 mW/g

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



0 dB = 0.275mW/g

#03_GSM850_GSM Voice_Left Cheek_Ch189**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: HSL_850_121002 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.902$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.12, 6.12, 6.12); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

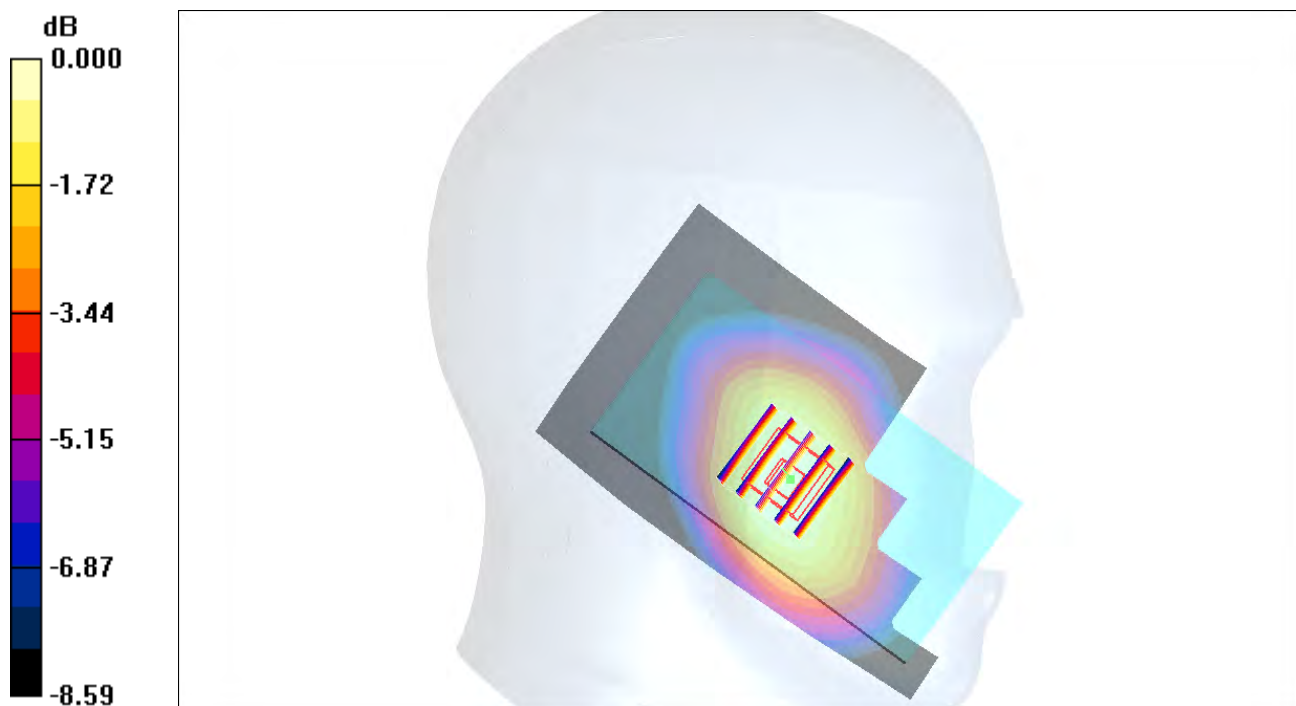
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.19 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.629 W/kg

SAR(1 g) = 0.508 mW/g; SAR(10 g) = 0.385 mW/g

Maximum value of SAR (measured) = 0.536 mW/g



0 dB = 0.536mW/g

#03_GSM850_GSM Voice_Left Cheek_Ch189_2D**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: HSL_850_121002 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.902$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.12, 6.12, 6.12); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

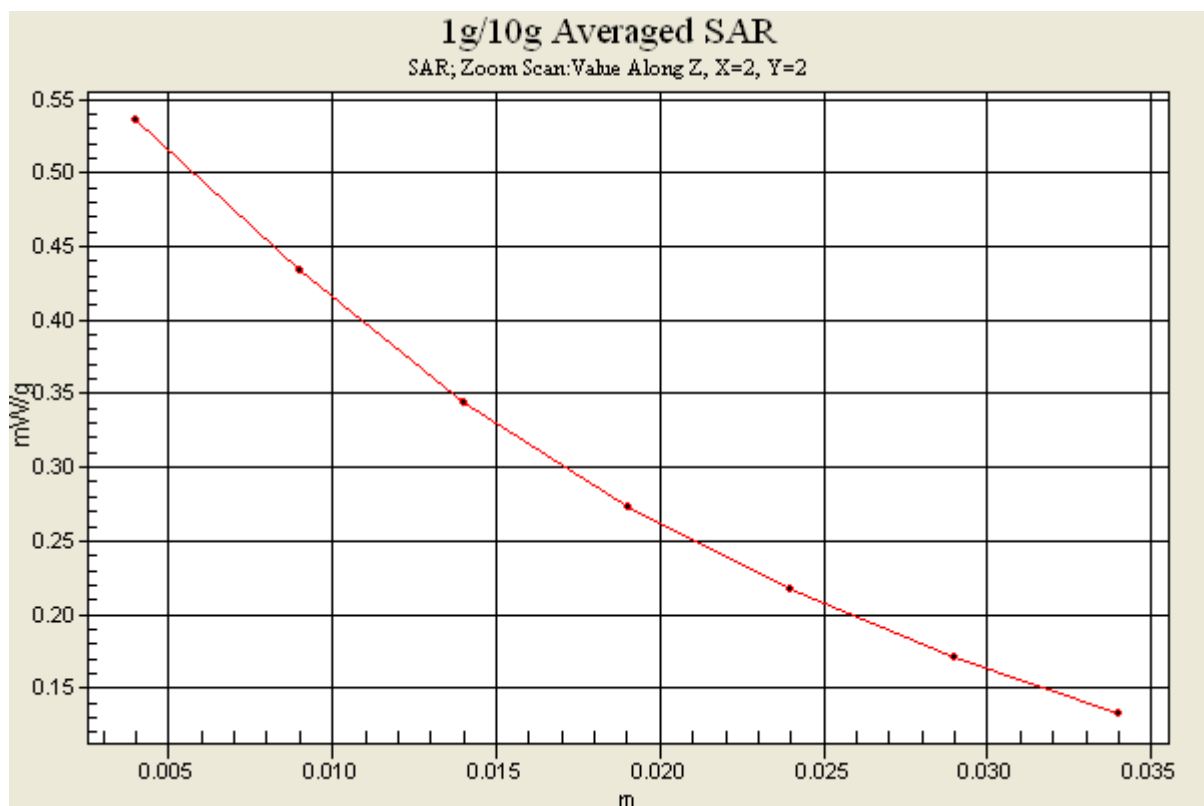
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.19 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.629 W/kg

SAR(1 g) = 0.508 mW/g; SAR(10 g) = 0.385 mW/g

Maximum value of SAR (measured) = 0.536 mW/g



#04_GSM850_GSM Voice_Left Tilted_Ch189**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: HSL_850_121002 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.902$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.12, 6.12, 6.12); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.301 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.2 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 0.326 W/kg

SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.228 mW/g

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

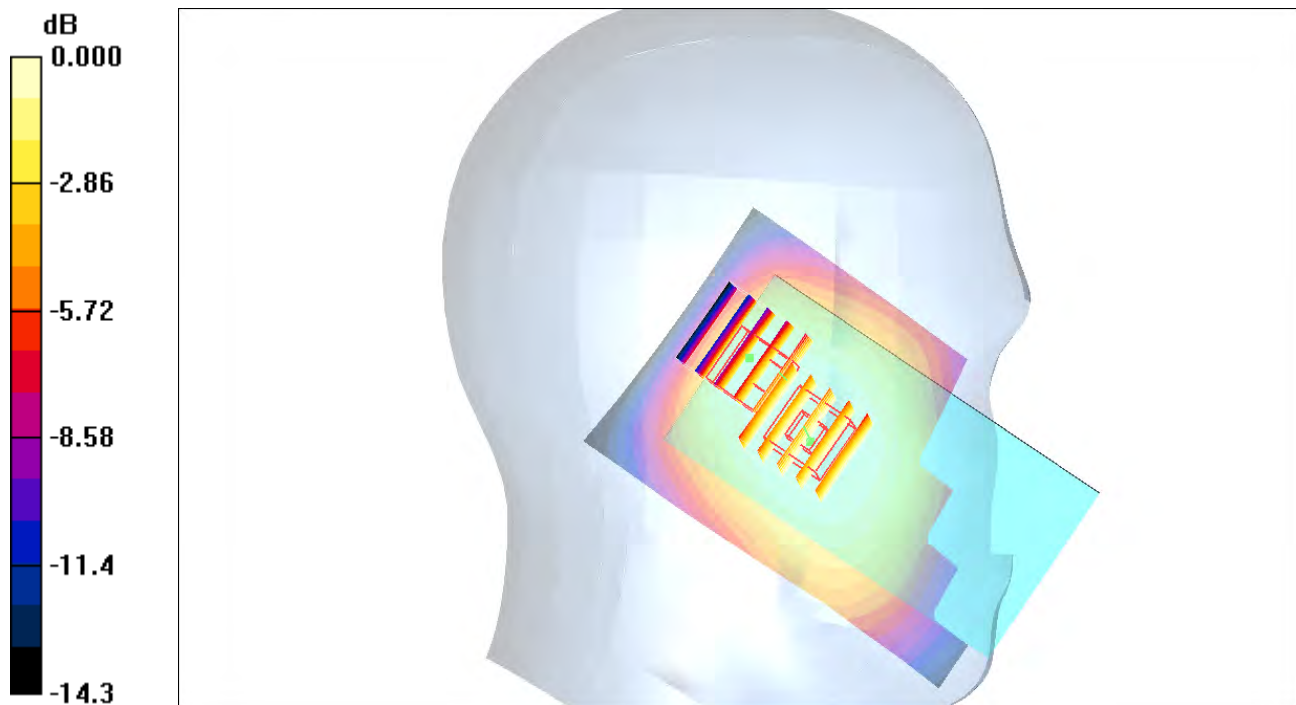
Ch189/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.2 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 0.321 W/kg

SAR(1 g) = 0.214 mW/g; SAR(10 g) = 0.150 mW/g

Maximum value of SAR (measured) = 0.254 mW/g



0 dB = 0.254mW/g

#05_GSM1900_GSM Voice_Right Cheek_Ch661**DUT: 292639**

Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(5.06, 5.06, 5.06); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch661/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.130 mW/g

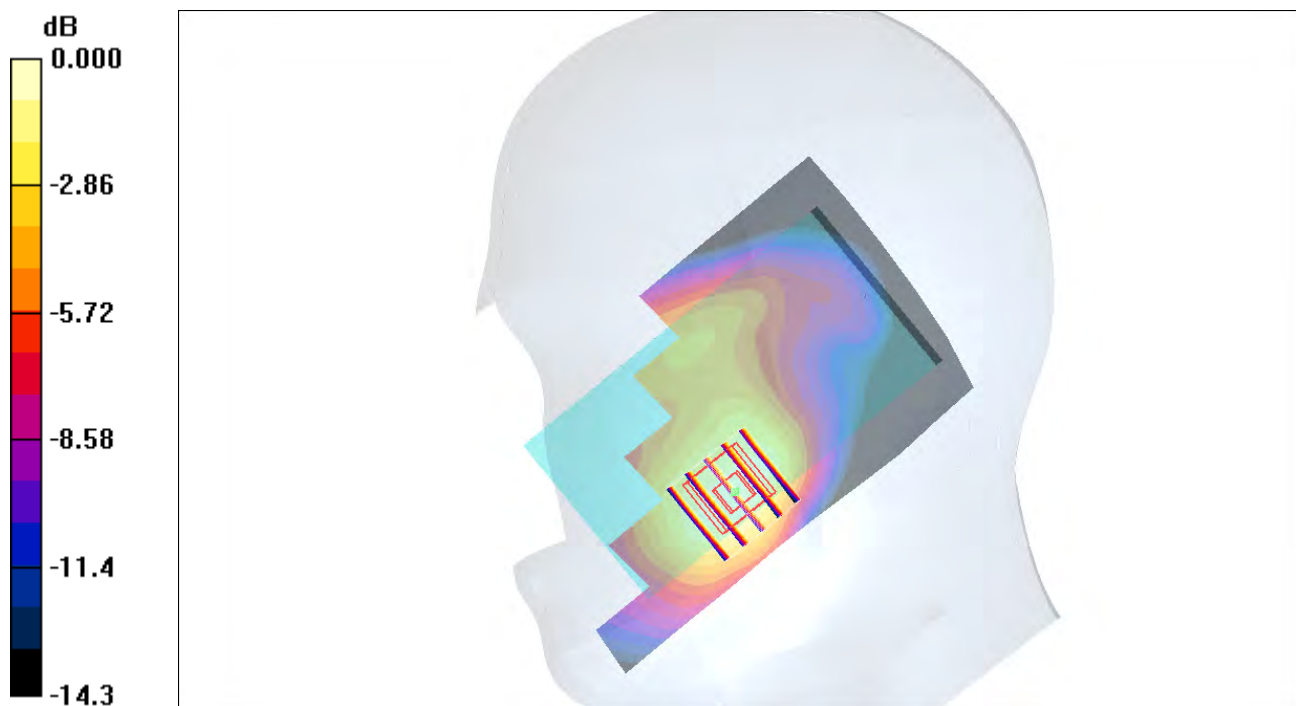
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.02 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 0.161 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.072 mW/g

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



0 dB = 0.125mW/g

#05_GSM1900_GSM Voice_Right Cheek_Ch661_2D**DUT: 292639**

Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(5.06, 5.06, 5.06); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch661/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.130 mW/g

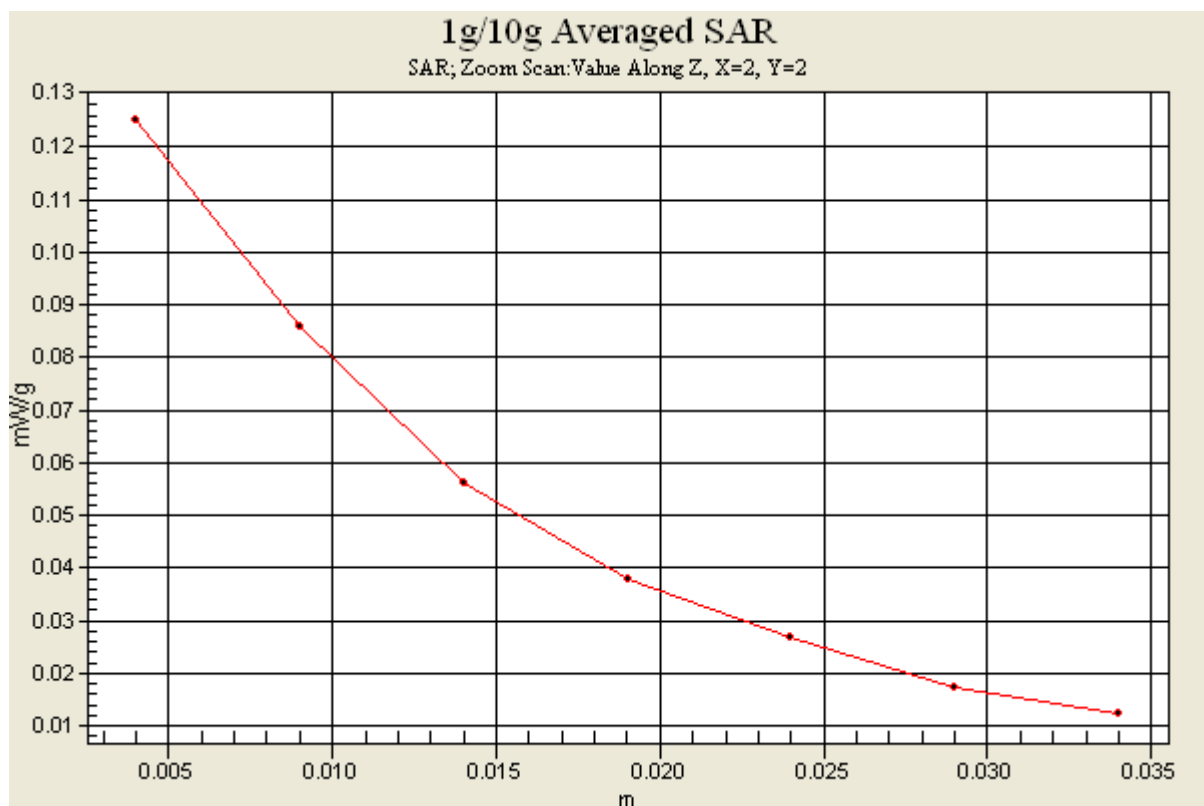
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.02 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 0.161 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.072 mW/g

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



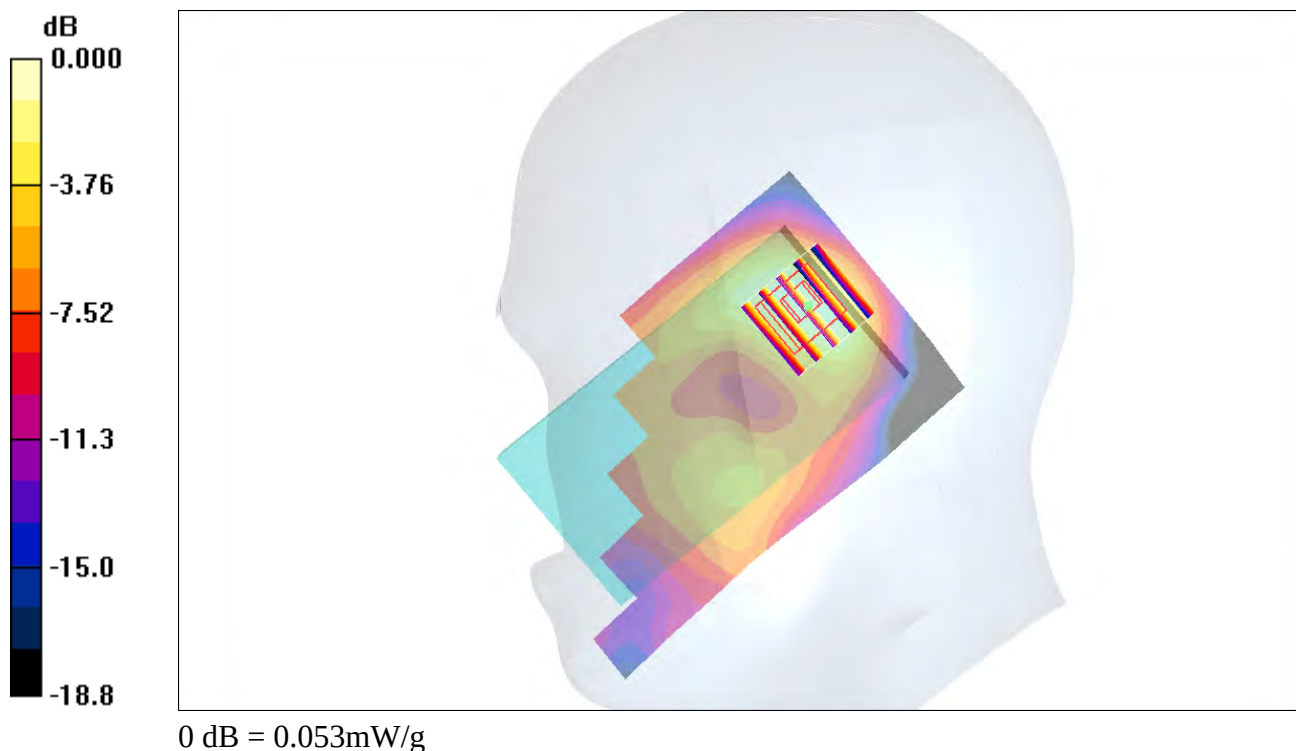
#06_GSM1900_GSM Voice_Right Tilted_Ch661**DUT: 292639**

Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL_1900_121002 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.6°C ; Liquid Temperature : 21.6°C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(5.06, 5.06, 5.06); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch661/Area Scan (51x81x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$ Maximum value of SAR (interpolated) = 0.051 mW/g **Ch661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.15 V/m ; Power Drift = 0.051 dB Peak SAR (extrapolated) = 0.078 W/kg **SAR(1 g) = 0.049 mW/g ; SAR(10 g) = 0.028 mW/g** Maximum value of SAR (measured) = 0.053 mW/g 

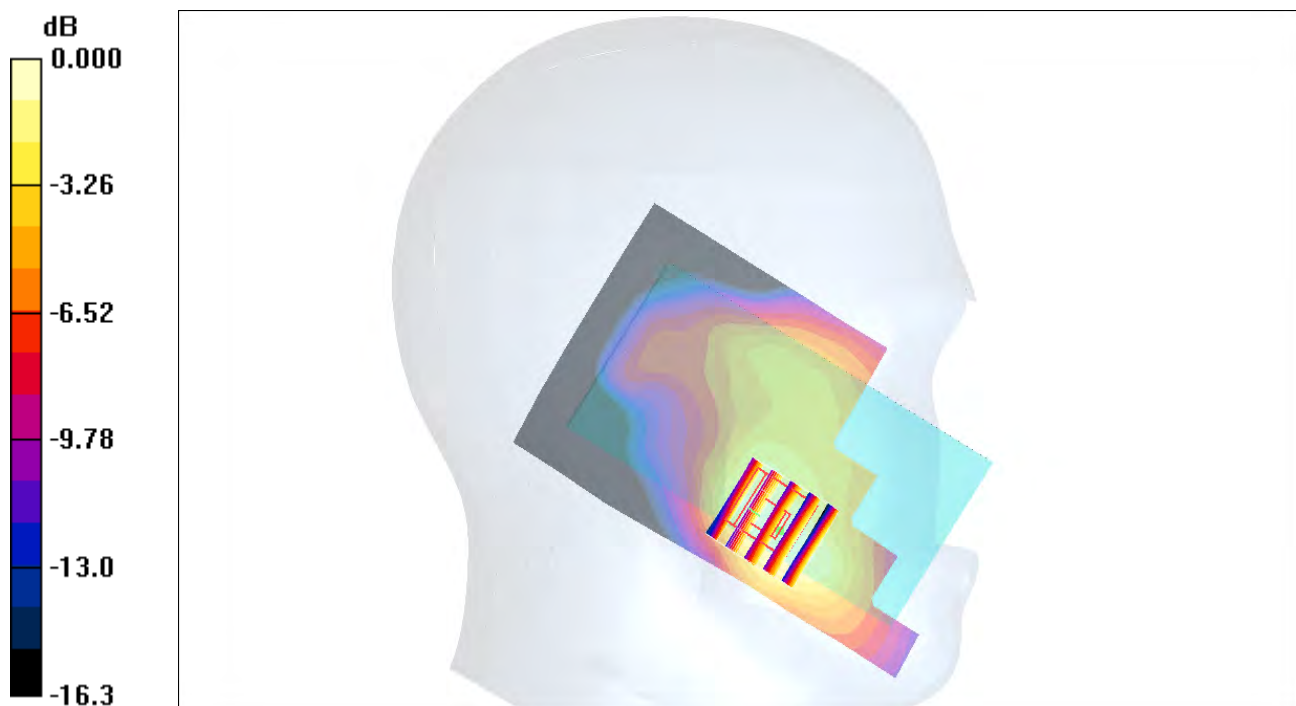
#07_GSM1900_GSM Voice_Left Cheek_Ch661**DUT: 292639**

Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL_1900_121002 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.6°C ; Liquid Temperature : 21.6°C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(5.06, 5.06, 5.06); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch661/Area Scan (51x81x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$ Maximum value of SAR (interpolated) = 0.119 mW/g **Ch661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 3.91 V/m ; Power Drift = 0.142 dB Peak SAR (extrapolated) = 0.164 W/kg **SAR(1 g) = 0.112 mW/g ; SAR(10 g) = 0.069 mW/g** Maximum value of SAR (measured) = 0.122 mW/g 0 dB = 0.122 mW/g

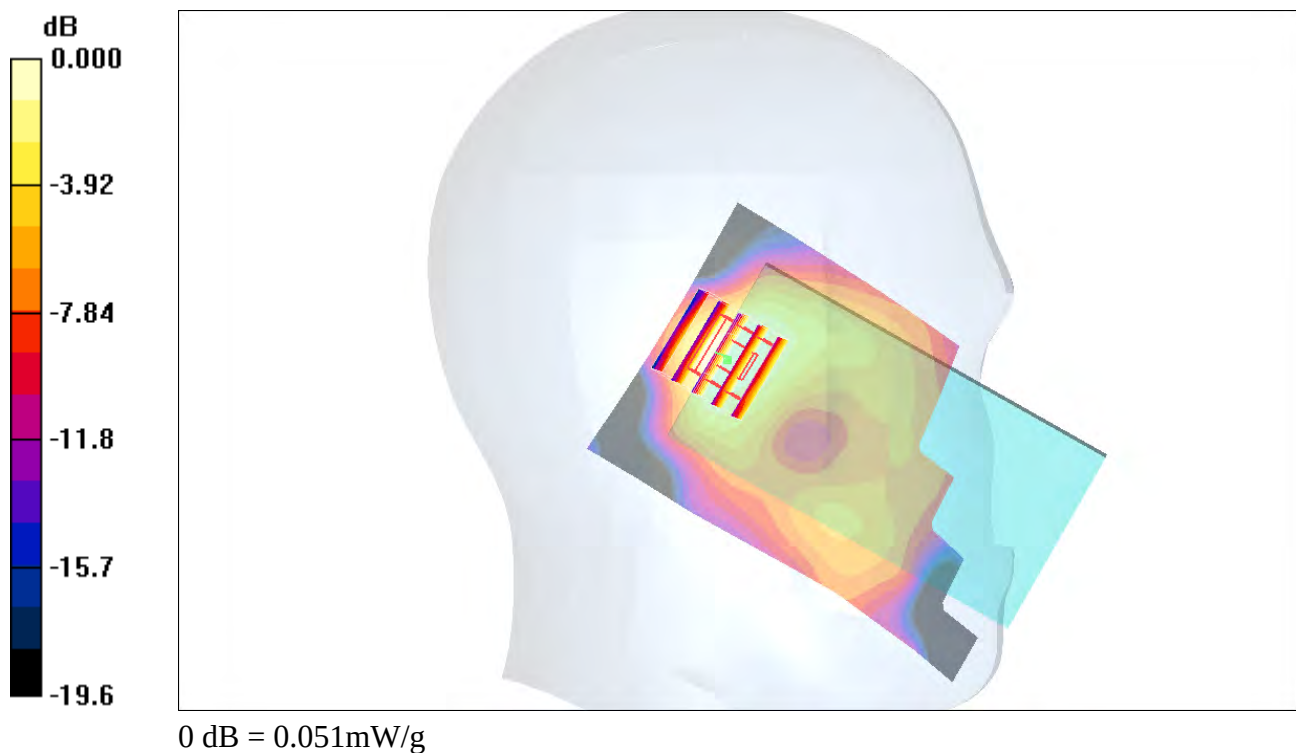
#08_GSM1900_GSM Voice_Left Tilted_Ch661**DUT: 292639**

Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL_1900_121002 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.6°C ; Liquid Temperature : 21.6°C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(5.06, 5.06, 5.06); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch661/Area Scan (51x81x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$ Maximum value of SAR (interpolated) = 0.060 mW/g **Ch661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.30 V/m ; Power Drift = 0.053 dB Peak SAR (extrapolated) = 0.074 W/kg **SAR(1 g) = 0.049 mW/g ; SAR(10 g) = 0.029 mW/g** Maximum value of SAR (measured) = 0.051 mW/g 

#09_WCDMA V_RMC12.2K_Right Cheek_Ch4132**DUT: 292639**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL_850_121002 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.12, 6.12, 6.12); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.362 mW/g

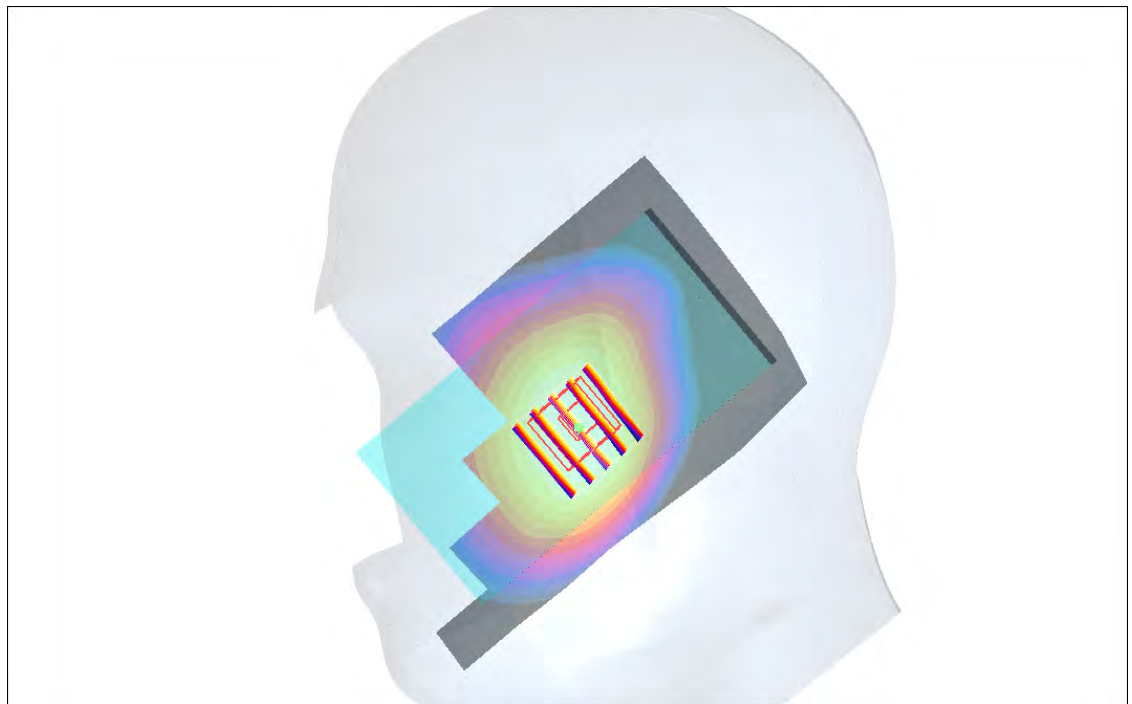
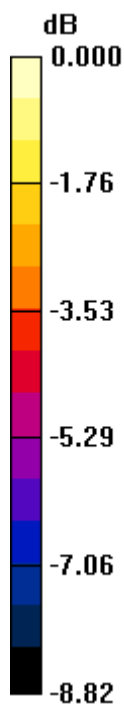
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.65 V/m; Power Drift = 0.081 dB

Peak SAR (extrapolated) = 0.405 W/kg

SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.259 mW/g

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



0 dB = 0.350mW/g

#10_WCDMA V_RMC12.2K_Right Tilted_Ch4132**DUT: 292639**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL_850_121002 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.12, 6.12, 6.12); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.251 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.9 V/m; Power Drift = 0.059 dB

Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.231 mW/g; SAR(10 g) = 0.182 mW/g

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

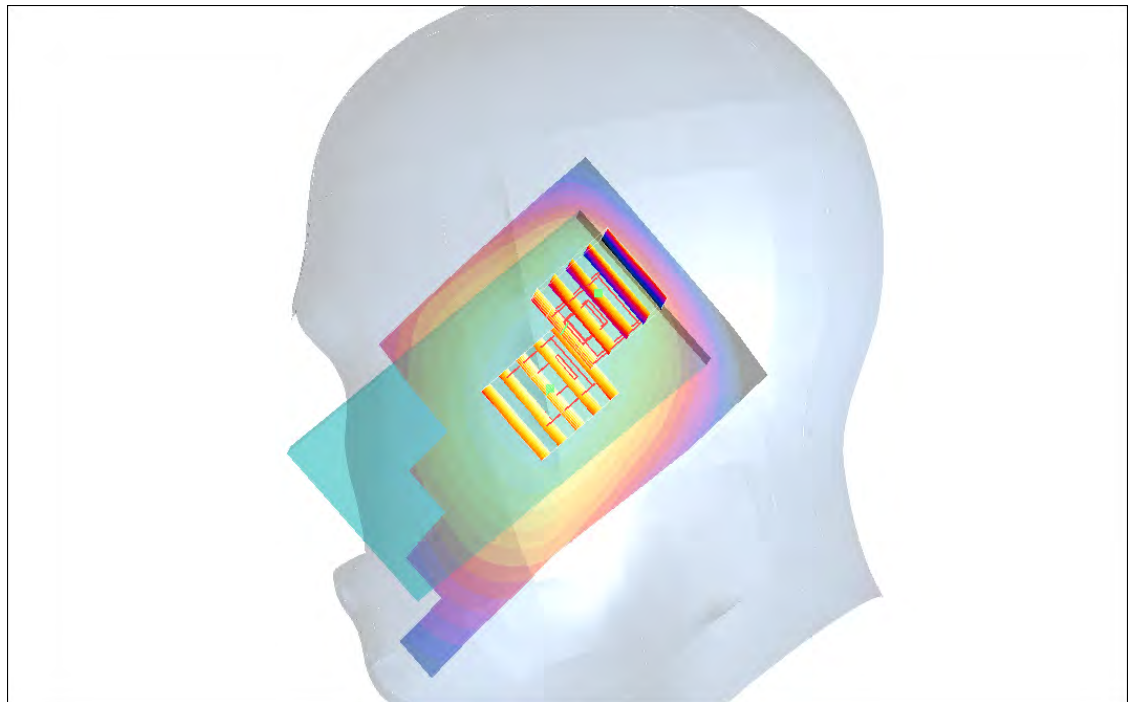
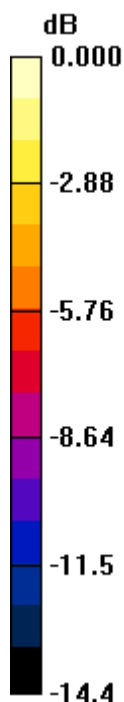
Ch4132/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.9 V/m; Power Drift = 0.059 dB

Peak SAR (extrapolated) = 0.354 W/kg

SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.126 mW/g

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



0 dB = 0.207mW/g

#11_WCDMA V_RMC12.2K_Left Cheek_Ch4132**DUT: 292639**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL_850_121002 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.12, 6.12, 6.12); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.410 mW/g

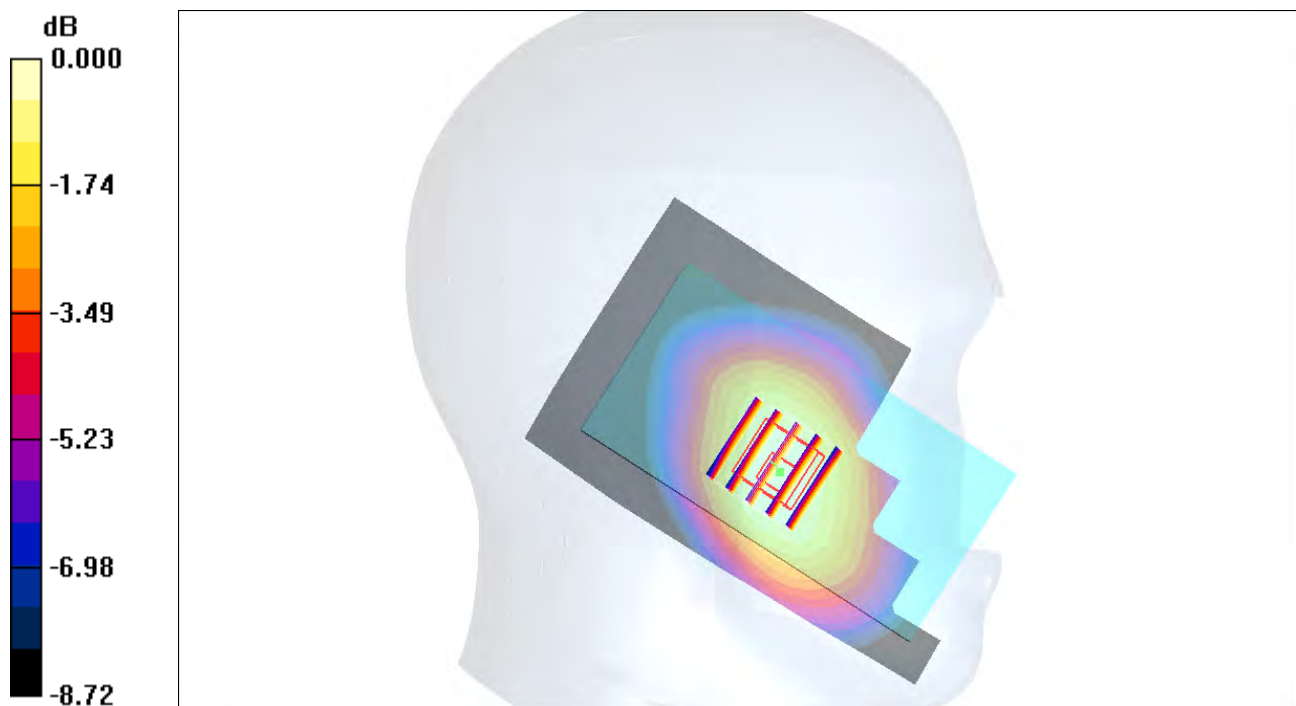
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.99 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 0.482 W/kg

SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.293 mW/g

Maximum value of SAR (measured) = 0.405 mW/g



0 dB = 0.405mW/g

#11_WCDMA V_RMC12.2K_Left Cheek_Ch4132_2D

DUT: 292639

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL_850_121002 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.12, 6.12, 6.12); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.410 mW/g

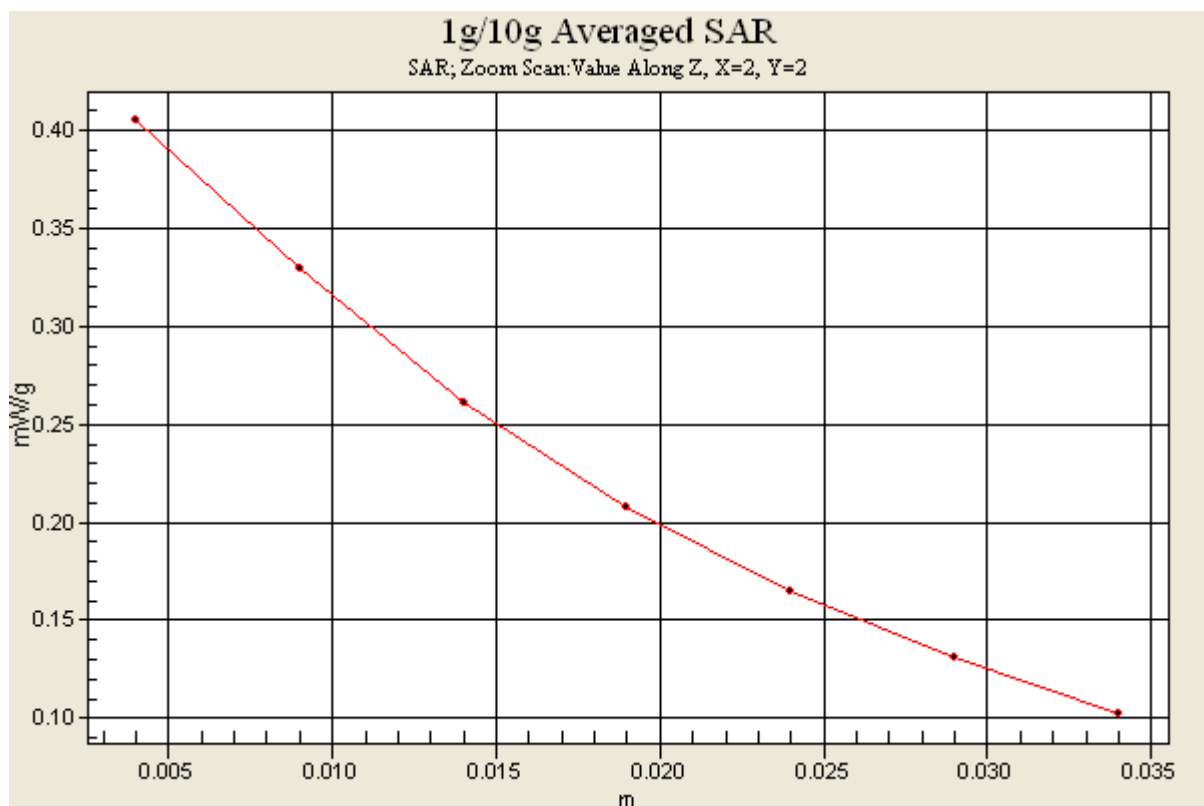
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.99 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 0.482 W/kg

SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.293 mW/g

Maximum value of SAR (measured) = 0.405 mW/g



#12_WCDMA V_RMC12.2K_Left Tilted_Ch4132**DUT: 292639**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL_850_121002 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.12, 6.12, 6.12); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 0.252 W/kg

SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 0.227 mW/g

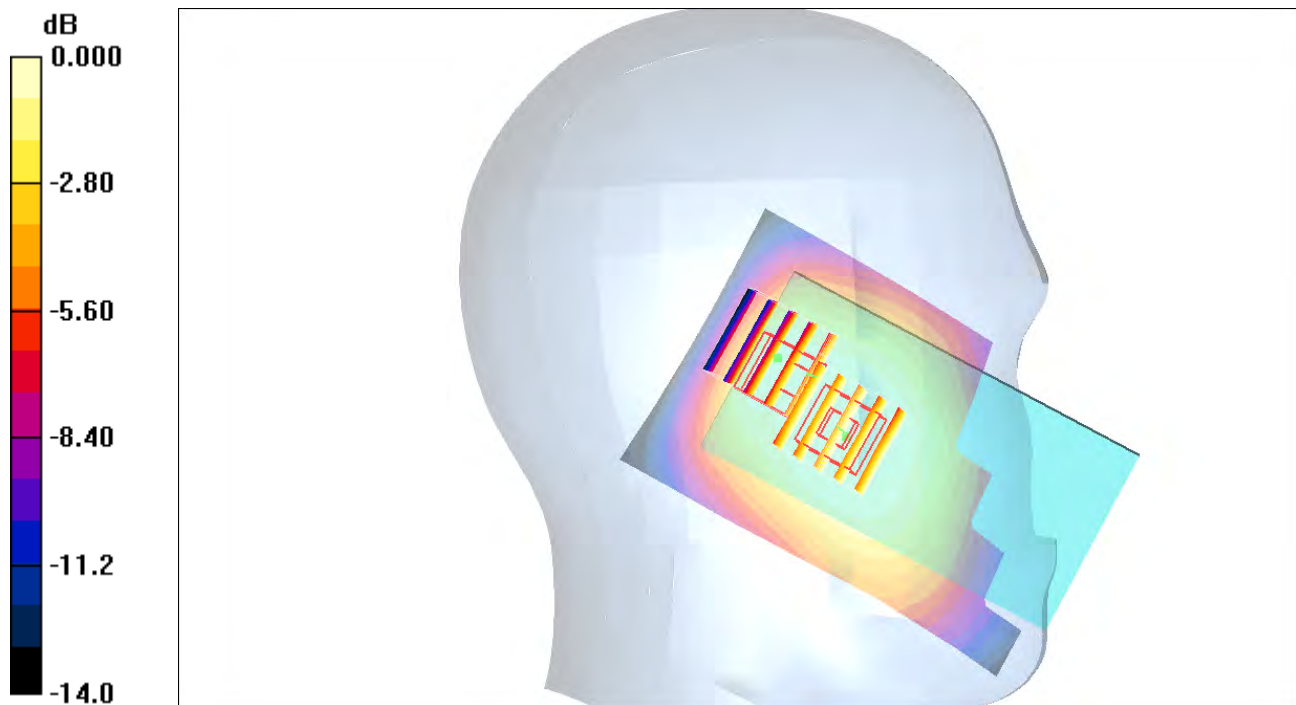
Ch4132/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 0.248 W/kg

SAR(1 g) = 0.166 mW/g; SAR(10 g) = 0.118 mW/g

Maximum value of SAR (measured) = 0.196 mW/g



0 dB = 0.196mW/g

#13_WCDMA II_RMC12.2K_Right Cheek_Ch9400**DUT: 292639**

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

Medium: HSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(5.06, 5.06, 5.06); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

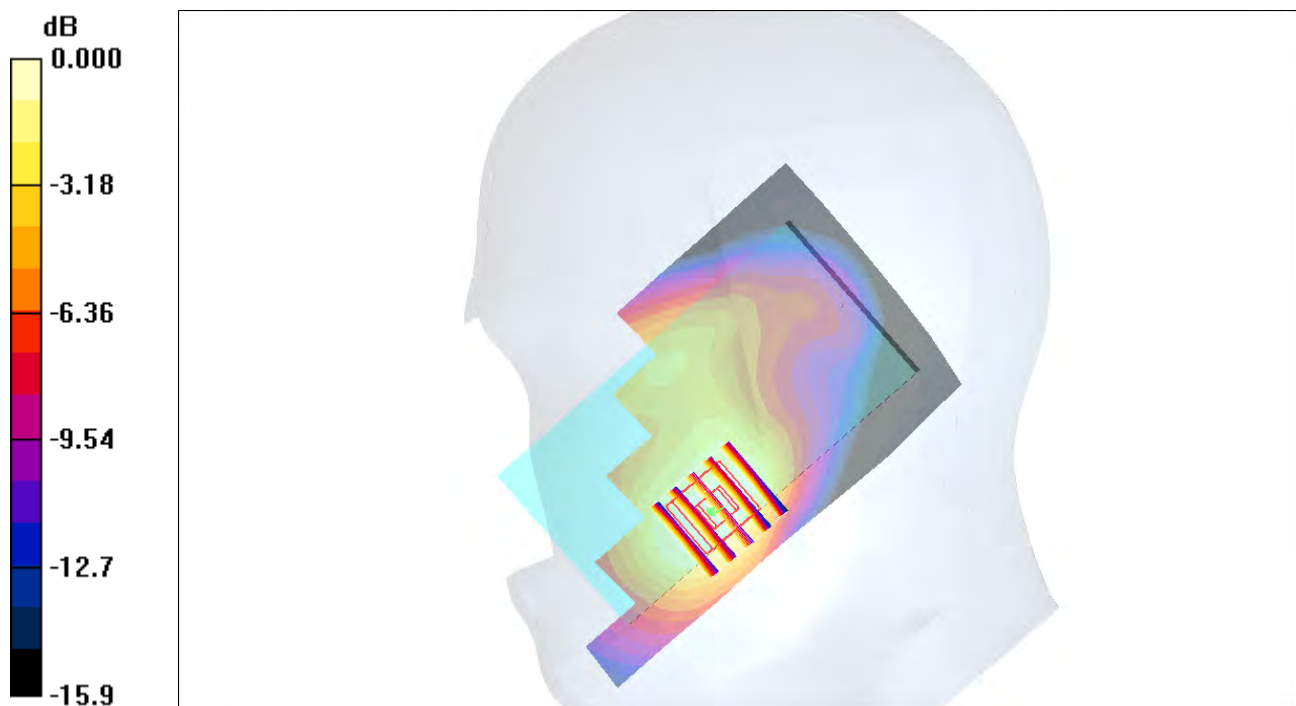
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.59 V/m; Power Drift = 0.194 dB

Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.215 mW/g; SAR(10 g) = 0.139 mW/g

Maximum value of SAR (measured) = 0.231 mW/g



0 dB = 0.231mW/g

#14_WCDMA II_RMC12.2K_Right Tilted_Ch9400**DUT: 292639**

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

Medium: HSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(5.06, 5.06, 5.06); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.109 mW/g

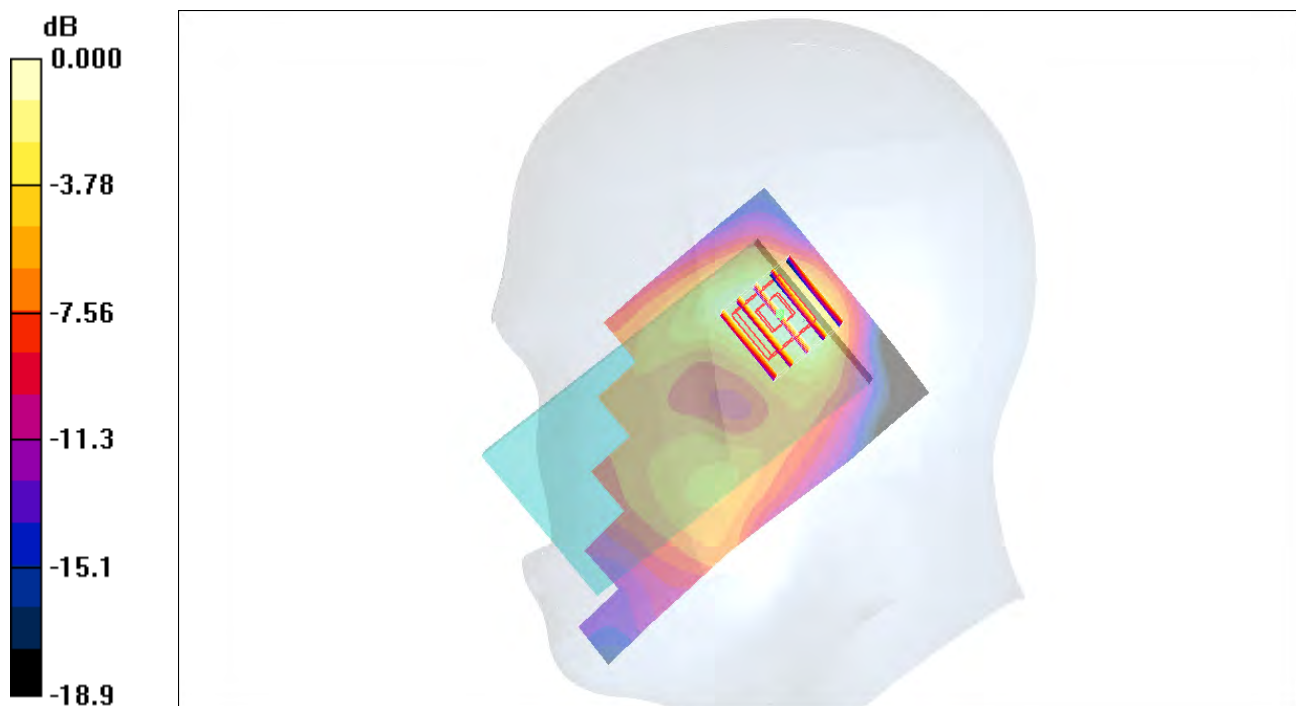
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.95 V/m; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.058 mW/g

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



0 dB = 0.108mW/g

#15_WCDMA II_RMC12.2K_Left Cheek_Ch9400**DUT: 292639**

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

Medium: HSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(5.06, 5.06, 5.06); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.251 mW/g

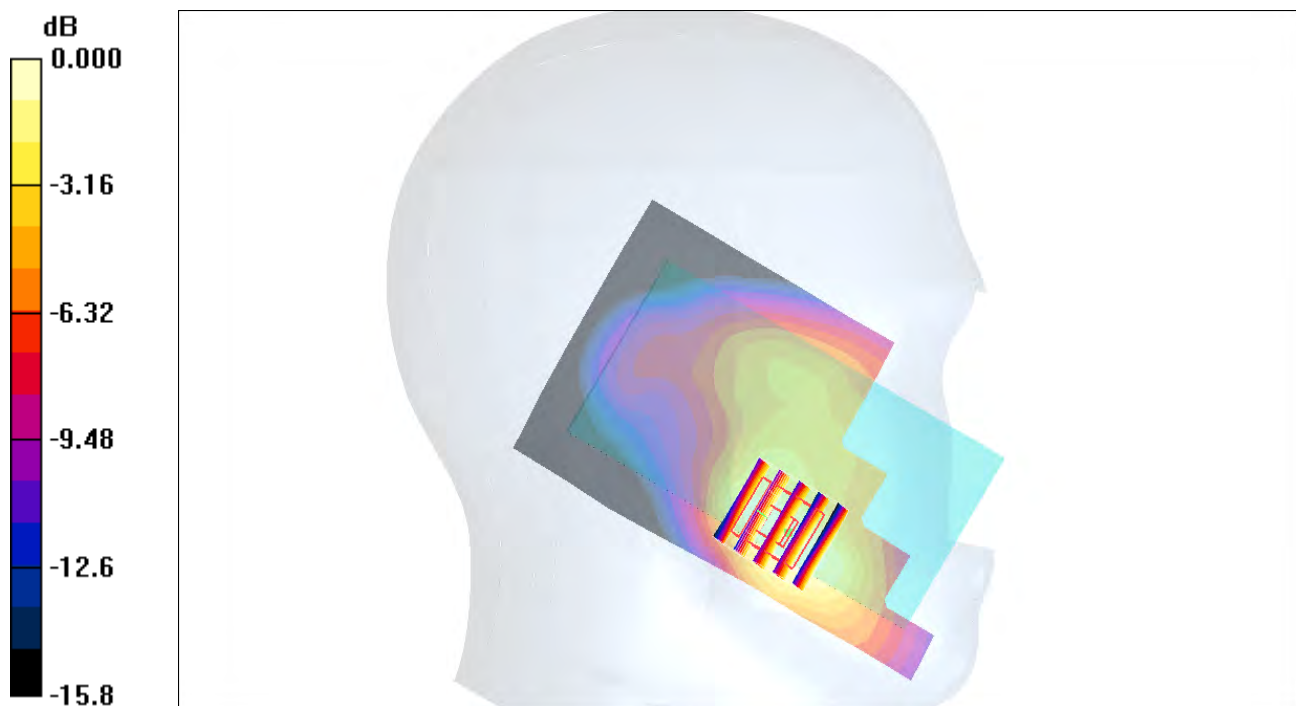
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.58 V/m; Power Drift = 0.106 dB

Peak SAR (extrapolated) = 0.342 W/kg

SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.143 mW/g

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



0 dB = 0.253mW/g

#15_WCDMA II_RMC12.2K_Left Cheek_Ch9400_2D**DUT: 292639**

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

Medium: HSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(5.06, 5.06, 5.06); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.251 mW/g

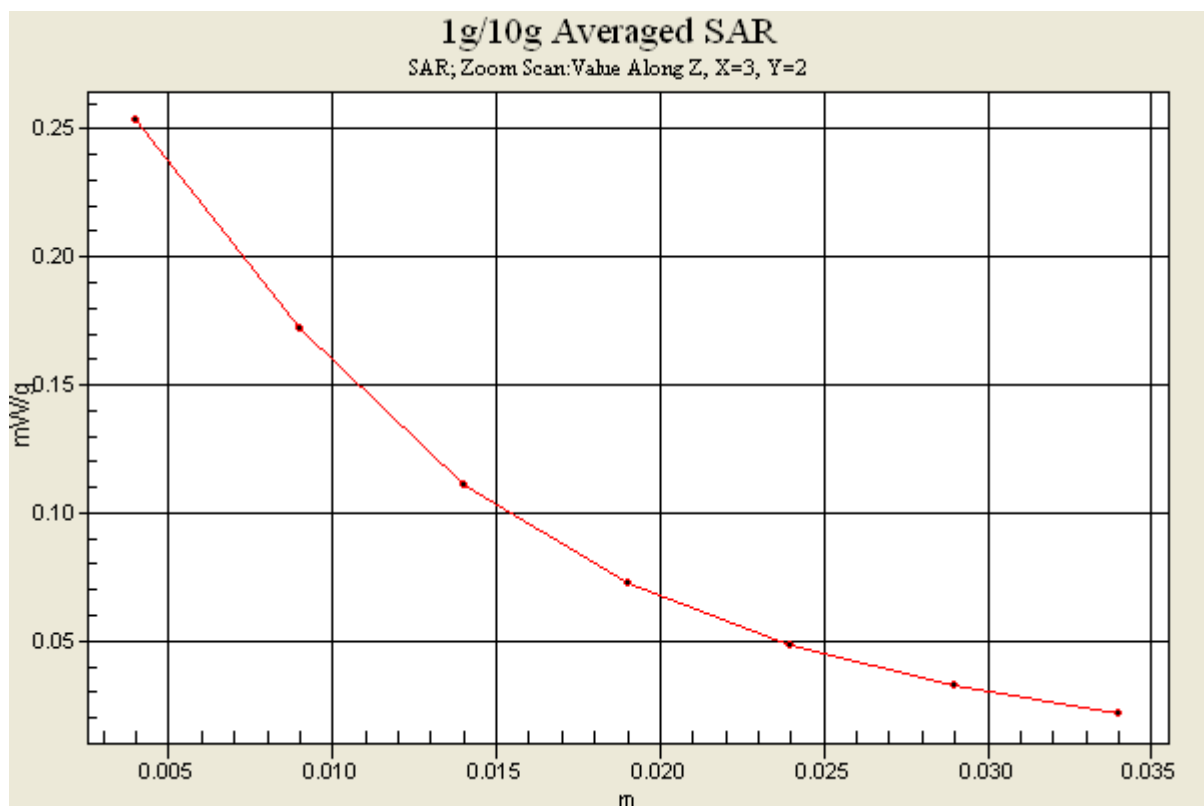
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.58 V/m; Power Drift = 0.106 dB

Peak SAR (extrapolated) = 0.342 W/kg

SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.143 mW/g

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



#16_WCDMA II_RMC12.2K_Left Tilted_Ch9400**DUT: 292639**

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

Medium: HSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(5.06, 5.06, 5.06); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

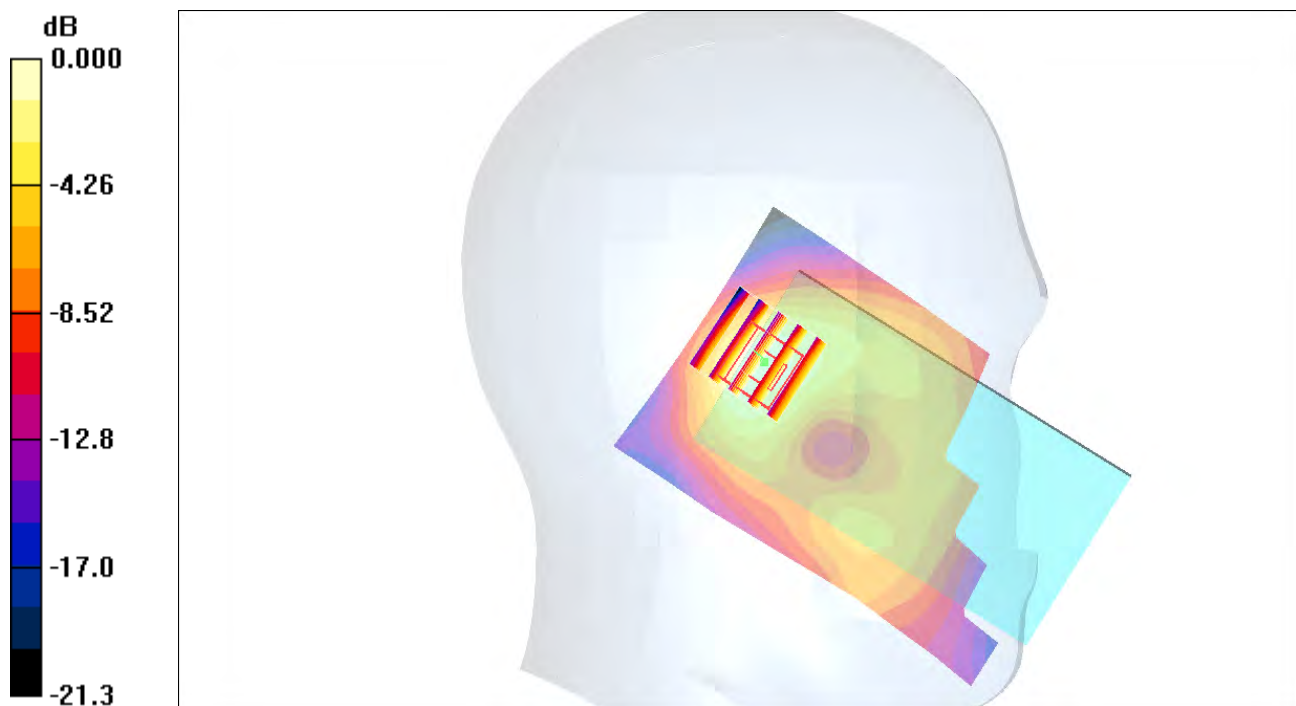
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.91 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 0.150 W/kg

SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.058 mW/g

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



0 dB = 0.107mW/g

#49_WLAN2.4G_802.11b_Right Cheek_Ch1**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium: HSL_2450_121003 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.79$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.55, 4.55, 4.55); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.451 mW/g

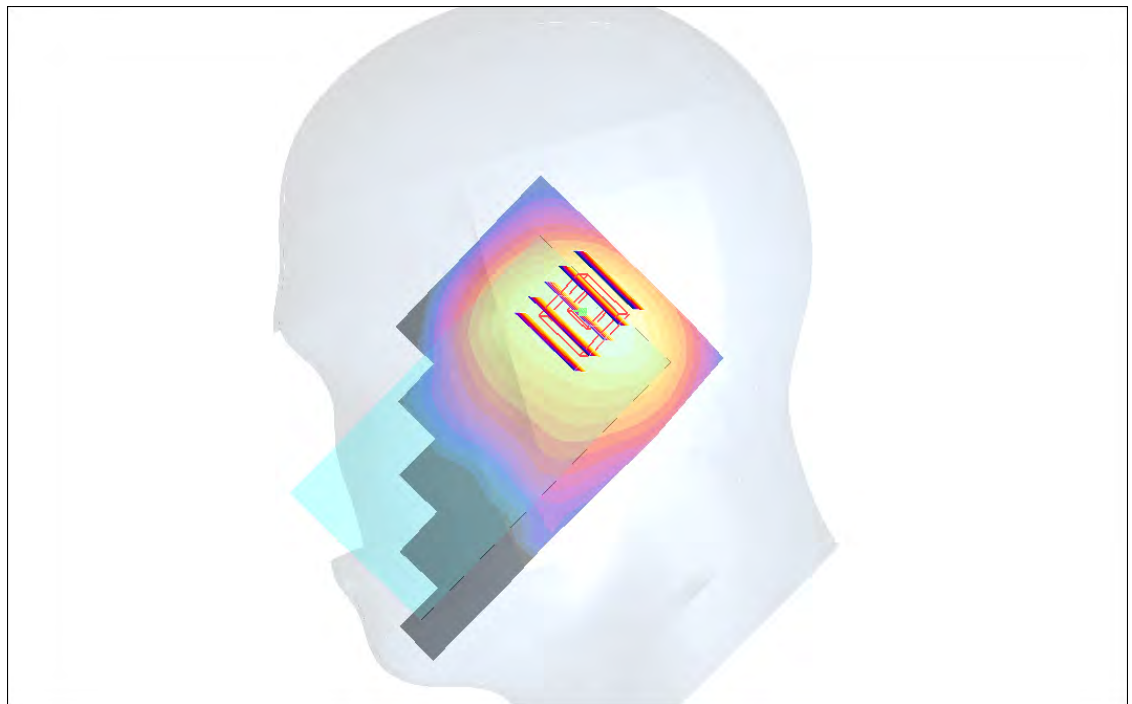
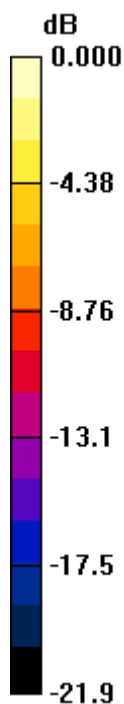
Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.3 V/m; Power Drift = 0.130 dB

Peak SAR (extrapolated) = 0.721 W/kg

SAR(1 g) = 0.379 mW/g; SAR(10 g) = 0.205 mW/g

Maximum value of SAR (measured) = 0.411 mW/g



0 dB = 0.411mW/g

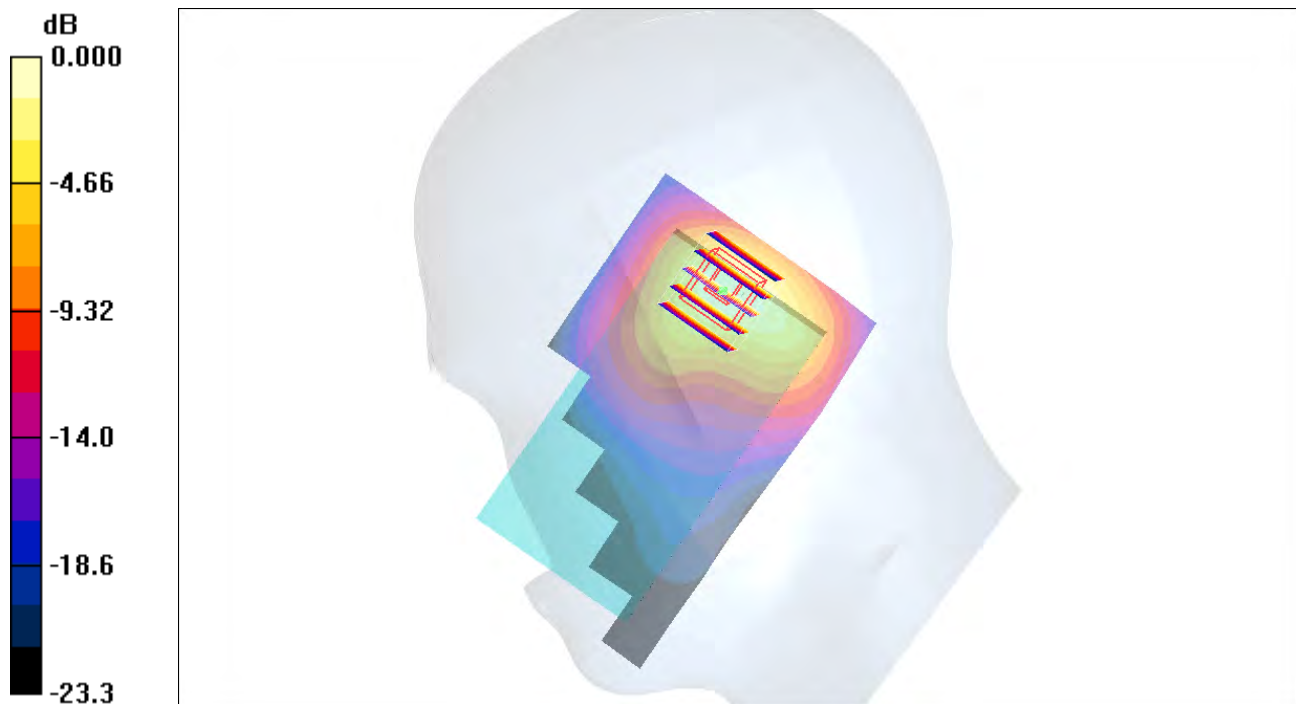
#50_WLAN2.4G_802.11b_Right Tilted_Ch1**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium: HSL_2450_121003 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.79 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.5°C ; Liquid Temperature : 21.5°C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.55, 4.55, 4.55); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (51x81x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$ Maximum value of SAR (interpolated) = 0.527 mW/g **Ch1/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 16.1 V/m ; Power Drift = 0.010 dB Peak SAR (extrapolated) = 0.868 W/kg **SAR(1 g) = 0.439 mW/g ; SAR(10 g) = 0.218 mW/g** Maximum value of SAR (measured) = 0.479 mW/g 0 dB = 0.479 mW/g

#51_WLAN2.4G_802.11b_Left Cheek_Ch1**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium: HSL_2450_121003 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.79$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.55, 4.55, 4.55); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.827 mW/g

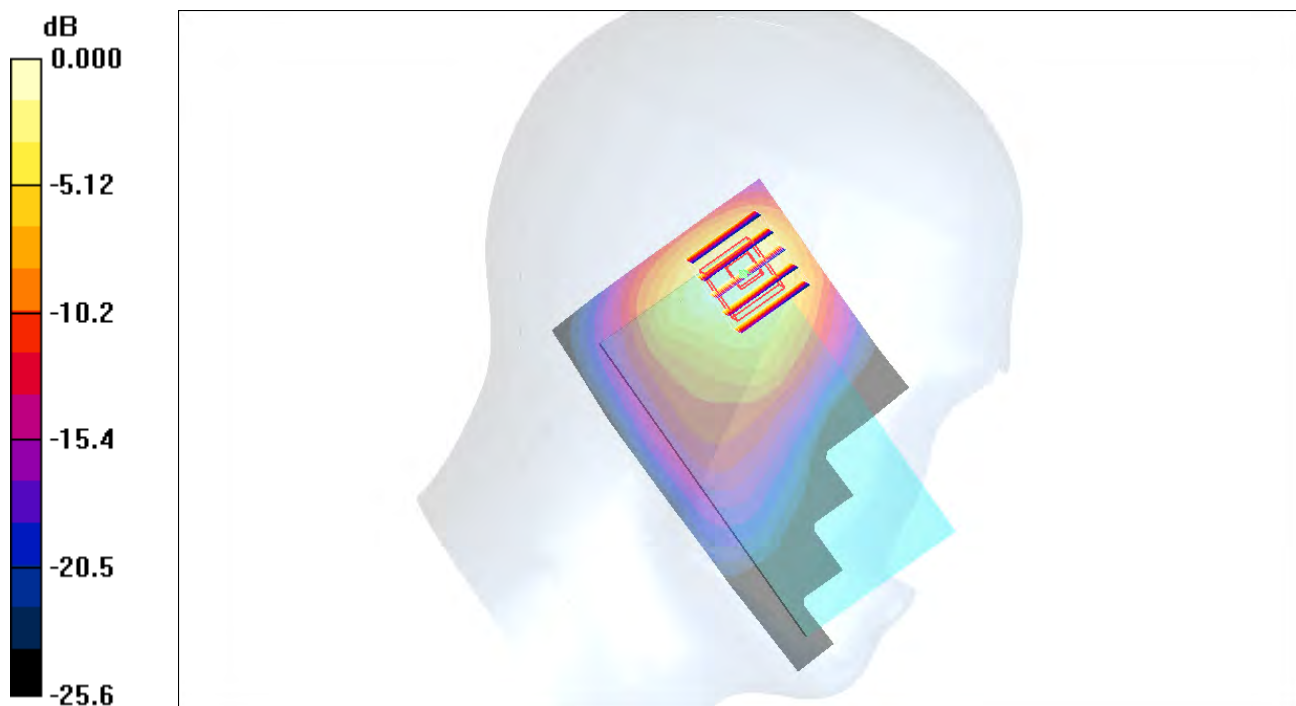
Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.6 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.668 mW/g; SAR(10 g) = 0.330 mW/g

Maximum value of SAR (measured) = 0.722 mW/g



0 dB = 0.722mW/g

#51_WLAN2.4G_802.11b_Left Cheek_Ch1_2D**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL_2450_121003 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.79$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.55, 4.55, 4.55); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.827 mW/g

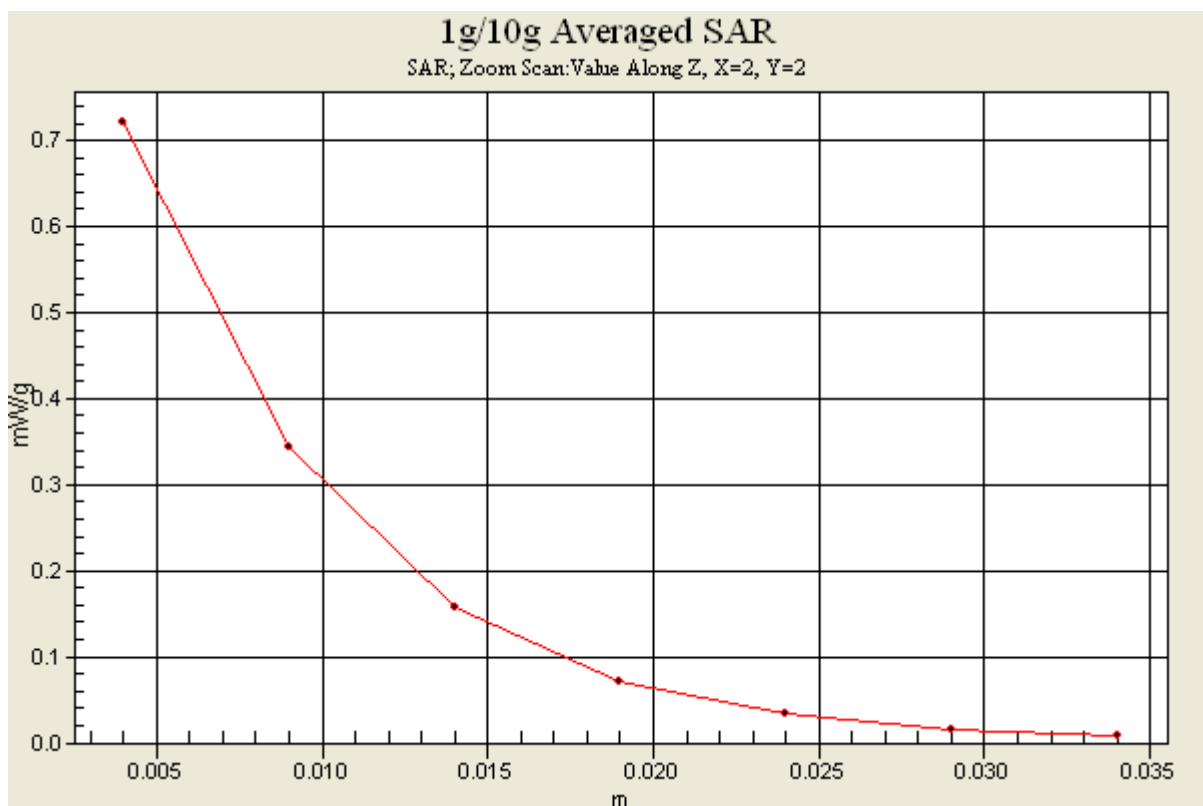
Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.6 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.668 mW/g; SAR(10 g) = 0.330 mW/g

Maximum value of SAR (measured) = 0.722 mW/g



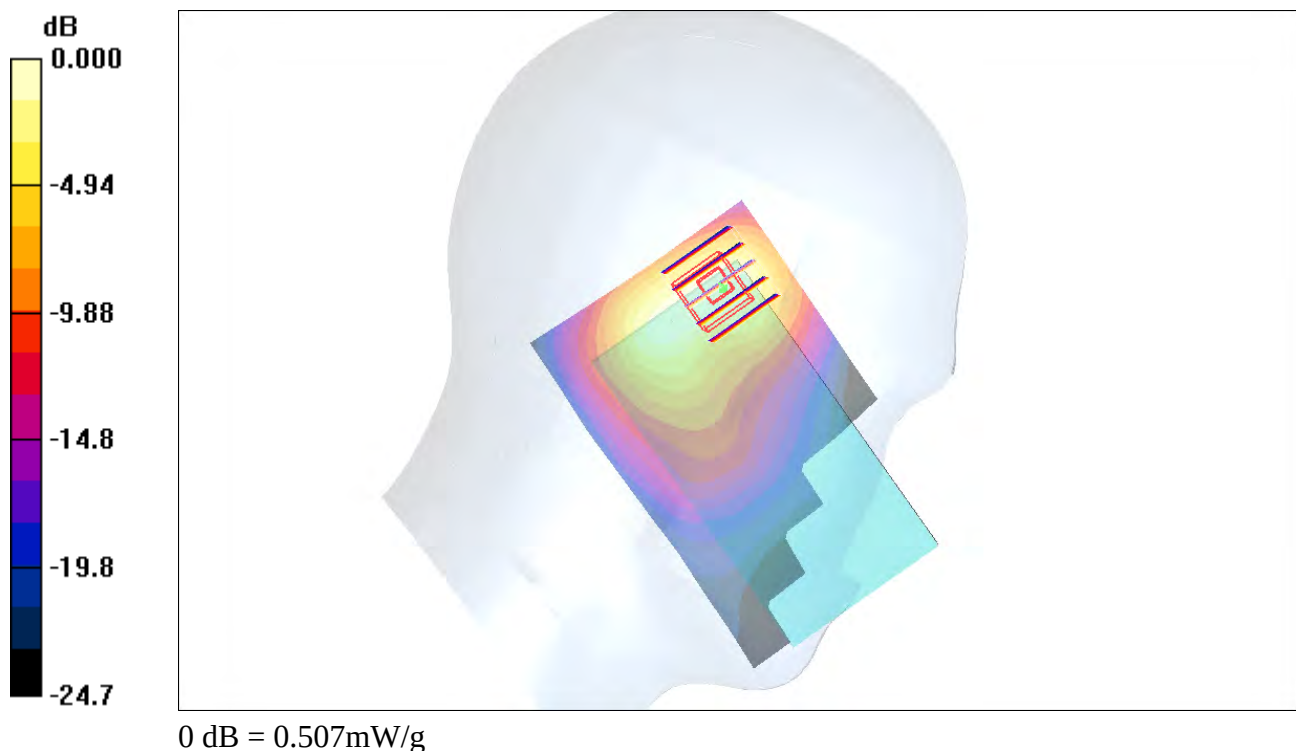
#52_WLAN2.4G_802.11b_Left Tilted_Ch1**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL_2450_121003 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.79 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.5°C ; Liquid Temperature : 21.5°C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.55, 4.55, 4.55); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (51x81x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$ Maximum value of SAR (interpolated) = 0.564 mW/g **Ch1/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 15.8 V/m ; Power Drift = -0.064 dB Peak SAR (extrapolated) = 1.07 W/kg **SAR(1 g) = 0.473 mW/g ; SAR(10 g) = 0.228 mW/g** Maximum value of SAR (measured) = 0.507 mW/g 

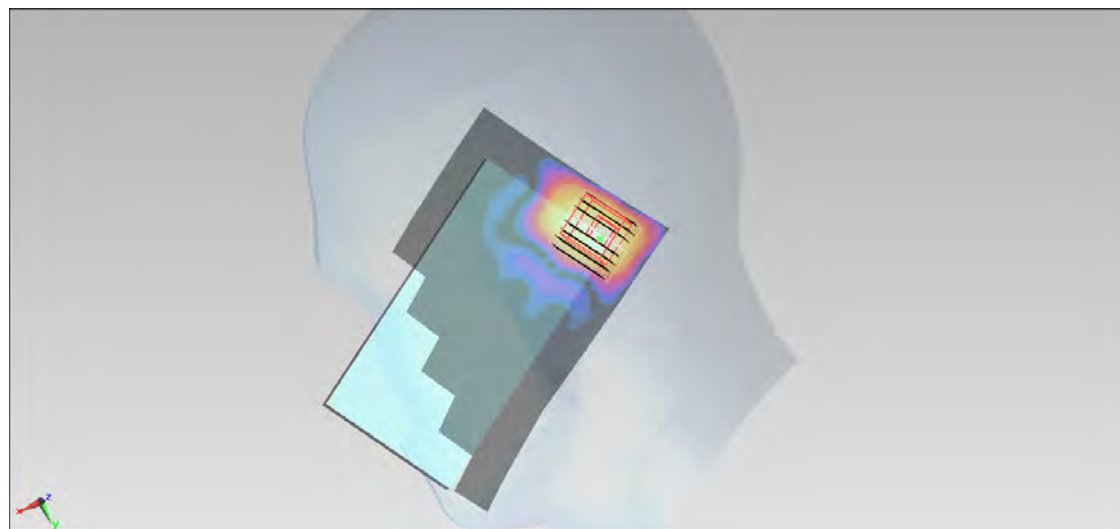
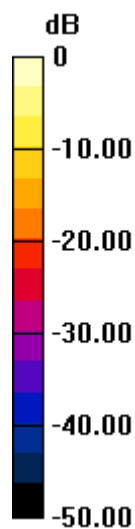
#68_WLAN5G_802.11a_Right Cheek_Ch40**DUT: 292639**

Communication System: 802.11a; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.793$ mho/m; $\epsilon_r = 35.493$; $\rho =$ 1000 kg/m^3 Ambient Temperature : 22.8°C ; Liquid Temperature : 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(5.07, 5.07, 5.07); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2012/4/23
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch40/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.127 mW/g **Ch40/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$ Reference Value = 0 V/m ; Power Drift = 0.014 dB Peak SAR (extrapolated) = 0.224 mW/g **SAR(1 g) = 0.051 mW/g ; SAR(10 g) = 0.014 mW/g** Maximum value of SAR (measured) = 0.124 mW/g  $0 \text{ dB} = 0.124 \text{ mW/g} = -18.13 \text{ dB mW/g}$

#69_WLAN5G_802.11a_Right Tilted_Ch40**DUT: 292639**

Communication System: 802.11a; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.793$ mho/m; $\epsilon_r = 35.493$; $\rho =$

1000 kg/m^3

Ambient Temperature : 22.8°C ; Liquid Temperature : 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(5.07, 5.07, 5.07); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2012/4/23
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch40/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.140 mW/g

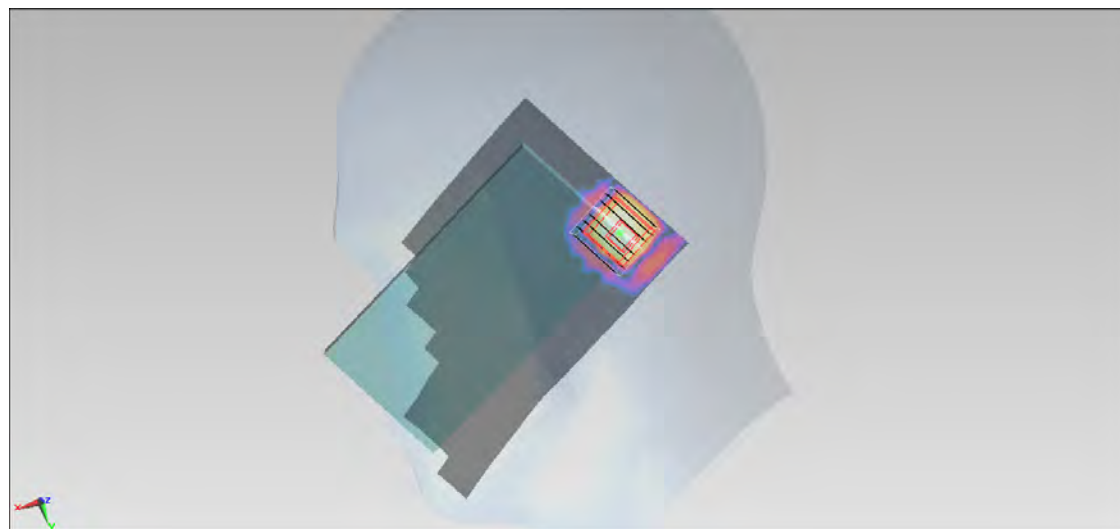
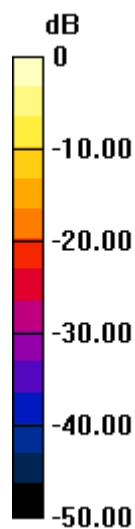
Ch40/Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.114 dB

Peak SAR (extrapolated) = 0.260 mW/g

SAR(1 g) = 0.049 mW/g ; SAR(10 g) = 0.014 mW/g

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



$0 \text{ dB} = 0.121 \text{ mW/g} = -18.34 \text{ dB mW/g}$

#70_WLAN5G_802.11a_Left Cheek_Ch40**DUT: 292639**

Communication System: 802.11a; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.793$ mho/m; $\epsilon_r = 35.493$; $\rho =$

1000 kg/m^3

Ambient Temperature : 22.8°C ; Liquid Temperature : 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(5.07, 5.07, 5.07); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2012/4/23
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch40/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.726 mW/g

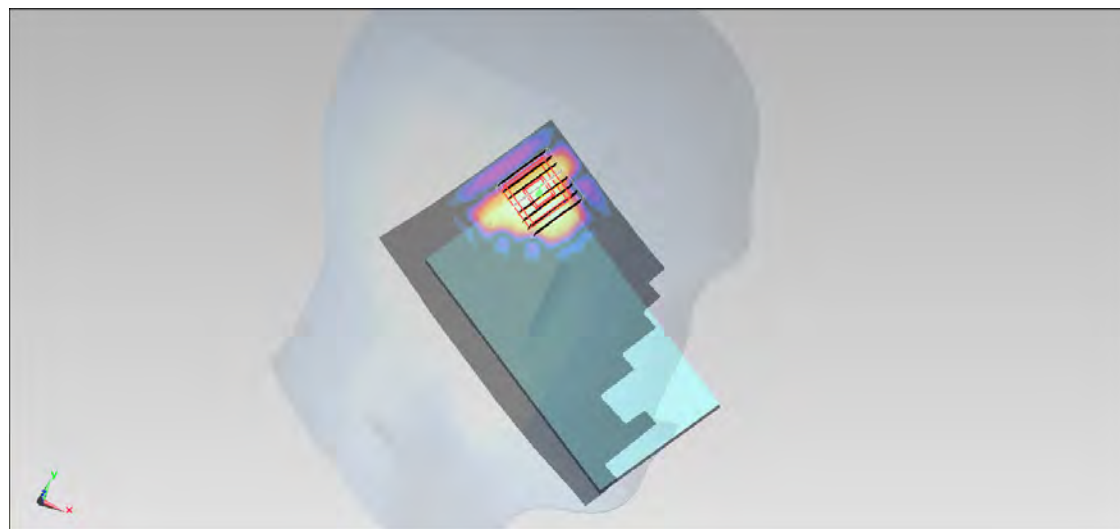
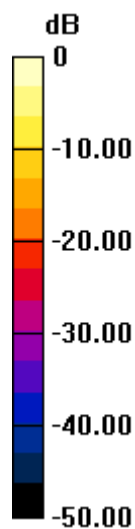
Ch40/Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 1.967 V/m ; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.495 mW/g

SAR(1 g) = 0.127 mW/g ; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.301 mW/g



0 dB = 0.301 mW/g = -10.43 dB mW/g

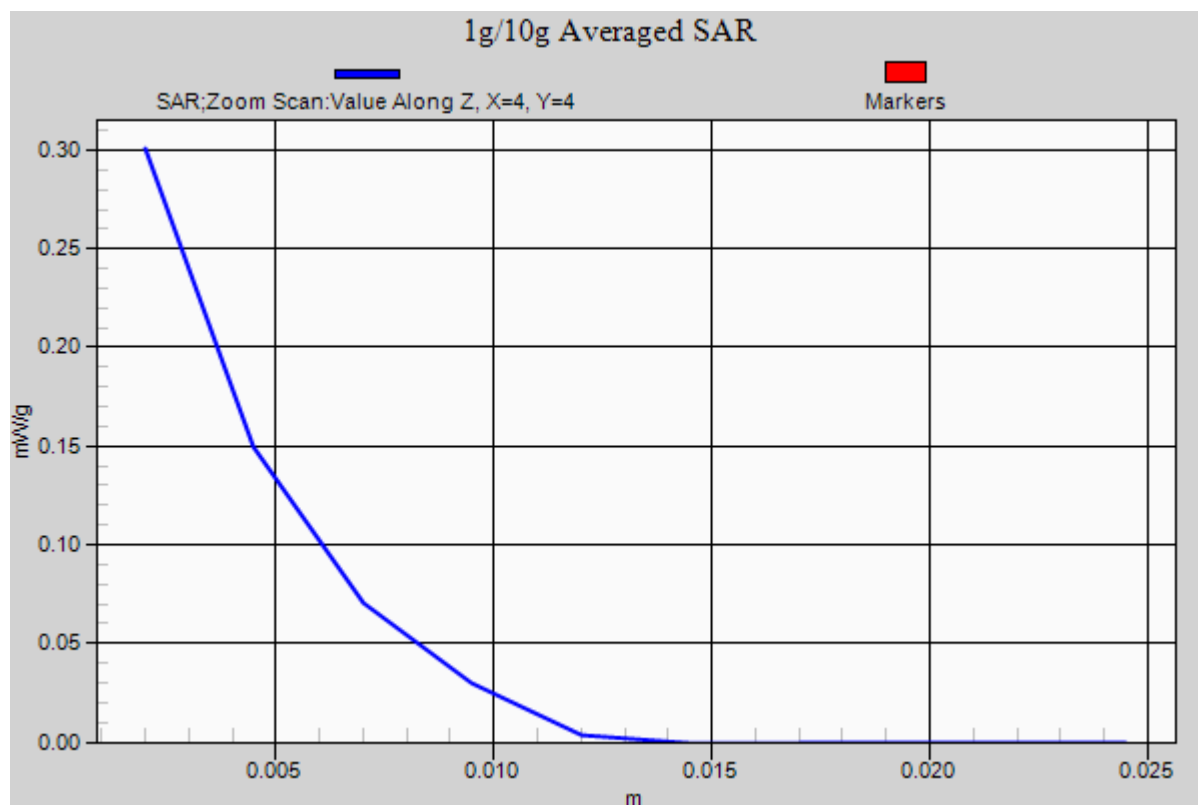
#70_WLAN5G_802.11a_Left Cheek_Ch40_2D**DUT: 292639**

Communication System: 802.11a; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.793$ mho/m; $\epsilon_r = 35.493$; $\rho =$ 1000 kg/m^3 Ambient Temperature : 22.8°C ; Liquid Temperature : 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(5.07, 5.07, 5.07); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2012/4/23
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch40/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.726 mW/g **Ch40/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$ Reference Value = 1.967 V/m ; Power Drift = 0.065 dB Peak SAR (extrapolated) = 0.495 mW/g **SAR(1 g) = 0.127 mW/g ; SAR(10 g) = 0.033 mW/g** Maximum value of SAR (measured) = 0.301 mW/g 

#71_WLAN5G_802.11a_Left Tilted_Ch40**DUT: 292639**

Communication System: 802.11a; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.793$ mho/m; $\epsilon_r = 35.493$; $\rho =$

1000 kg/m^3

Ambient Temperature : 22.8°C ; Liquid Temperature : 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(5.07, 5.07, 5.07); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2012/4/23
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch40/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.610 mW/g

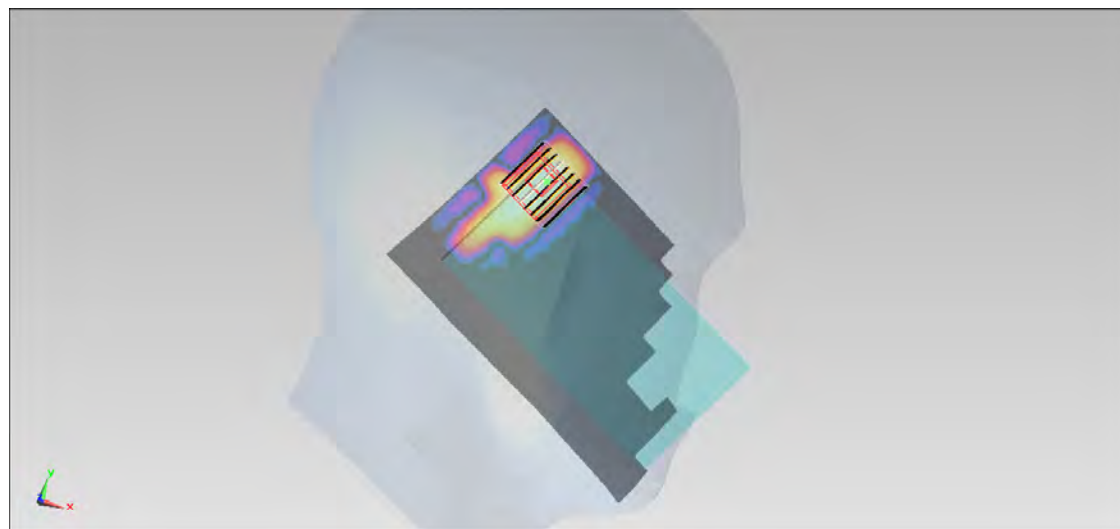
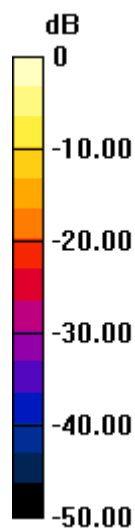
Ch40/Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 3.073 V/m ; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 0.406 mW/g

SAR(1 g) = 0.109 mW/g ; SAR(10 g) = 0.029 mW/g

Maximum value of SAR (measured) = 0.237 mW/g



0 dB = 0.237 mW/g = -12.51 dB mW/g

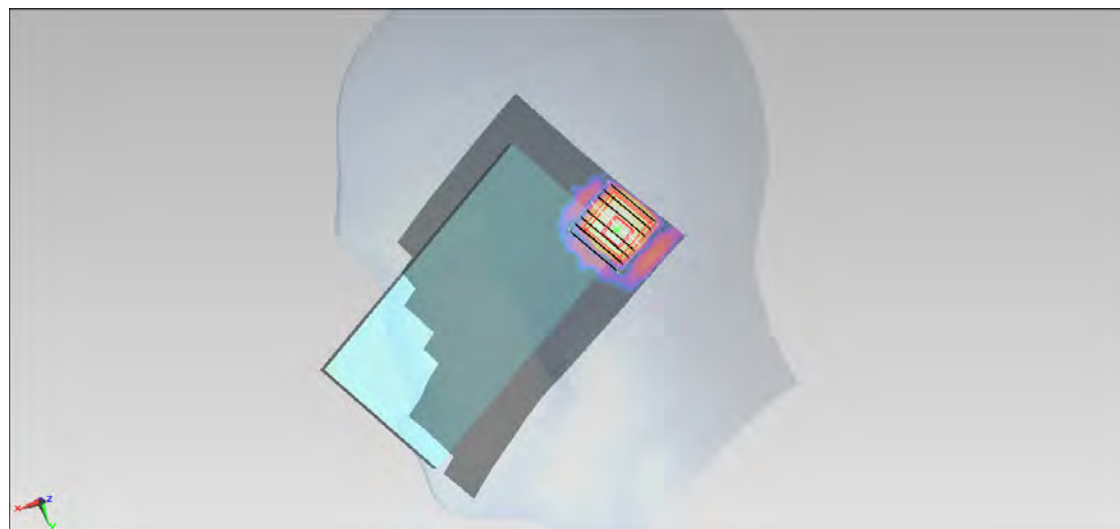
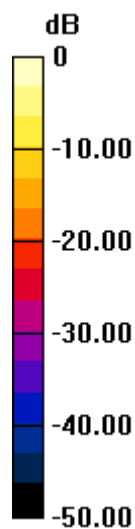
#72_WLAN5G_802.11a_Right Cheek_Ch52**DUT: 292639**

Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5260$ MHz; $\sigma = 4.861$ mho/m; $\epsilon_r = 35.417$; $\rho =$ 1000 kg/m^3 Ambient Temperature : 22.8°C ; Liquid Temperature : 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2012/4/23
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch52/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.135 mW/g **Ch52/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$ Reference Value = 1.165 V/m ; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.235 mW/g **SAR(1 g) = 0.056 mW/g ; SAR(10 g) = 0.015 mW/g** Maximum value of SAR (measured) = 0.129 mW/g  $0 \text{ dB} = 0.129 \text{ mW/g} = -17.79 \text{ dB mW/g}$

#73_WLAN5G_802.11a_Right Tilted_Ch52**DUT: 292639**

Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5260$ MHz; $\sigma = 4.861$ mho/m; $\epsilon_r = 35.417$; $\rho =$

1000 kg/m^3

Ambient Temperature : 22.8°C ; Liquid Temperature : 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2012/4/23
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch52/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

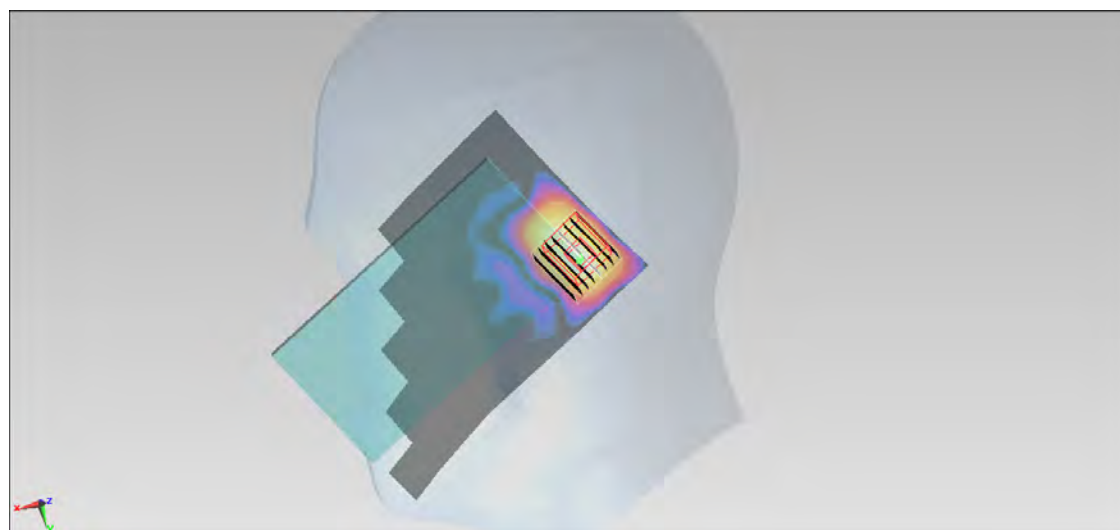
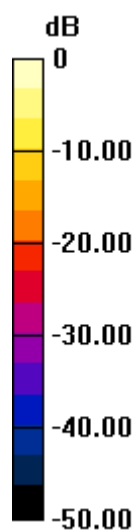
Configuration/Ch52/Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.111 dB

Peak SAR (extrapolated) = 0.361 mW/g

SAR(1 g) = 0.055 mW/g ; SAR(10 g) = 0.016 mW/g

Maximum value of SAR (measured) = 0.132 mW/g



$0 \text{ dB} = 0.132 \text{ mW/g} = -17.59 \text{ dB mW/g}$

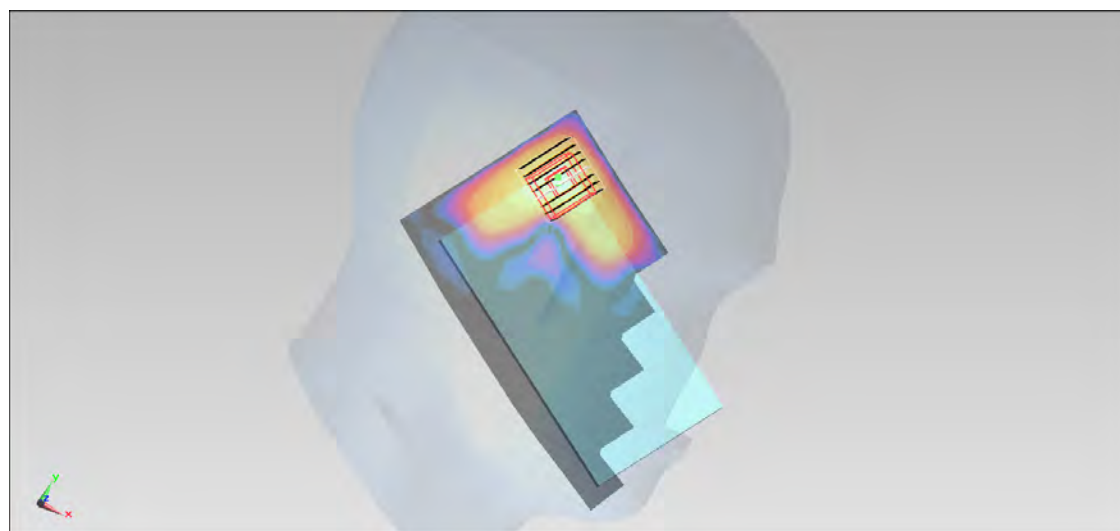
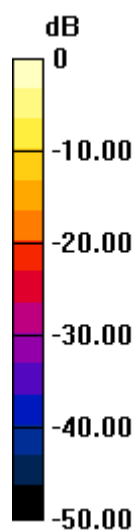
#74_WLAN5G_802.11a_Left Cheek_Ch52**DUT: 292639**

Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5260$ MHz; $\sigma = 4.861$ mho/m; $\epsilon_r = 35.417$; $\rho =$ 1000 kg/m^3 Ambient Temperature : 22.8°C ; Liquid Temperature : 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2012/4/23
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch52/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.259 mW/g **Ch52/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$ Reference Value = 2.246 V/m ; Power Drift = 0.046 dB Peak SAR (extrapolated) = 0.483 mW/g **SAR(1 g) = 0.142 mW/g ; SAR(10 g) = 0.036 mW/g** Maximum value of SAR (measured) = 0.309 mW/g  $0 \text{ dB} = 0.309 \text{ mW/g} = -10.20 \text{ dB mW/g}$

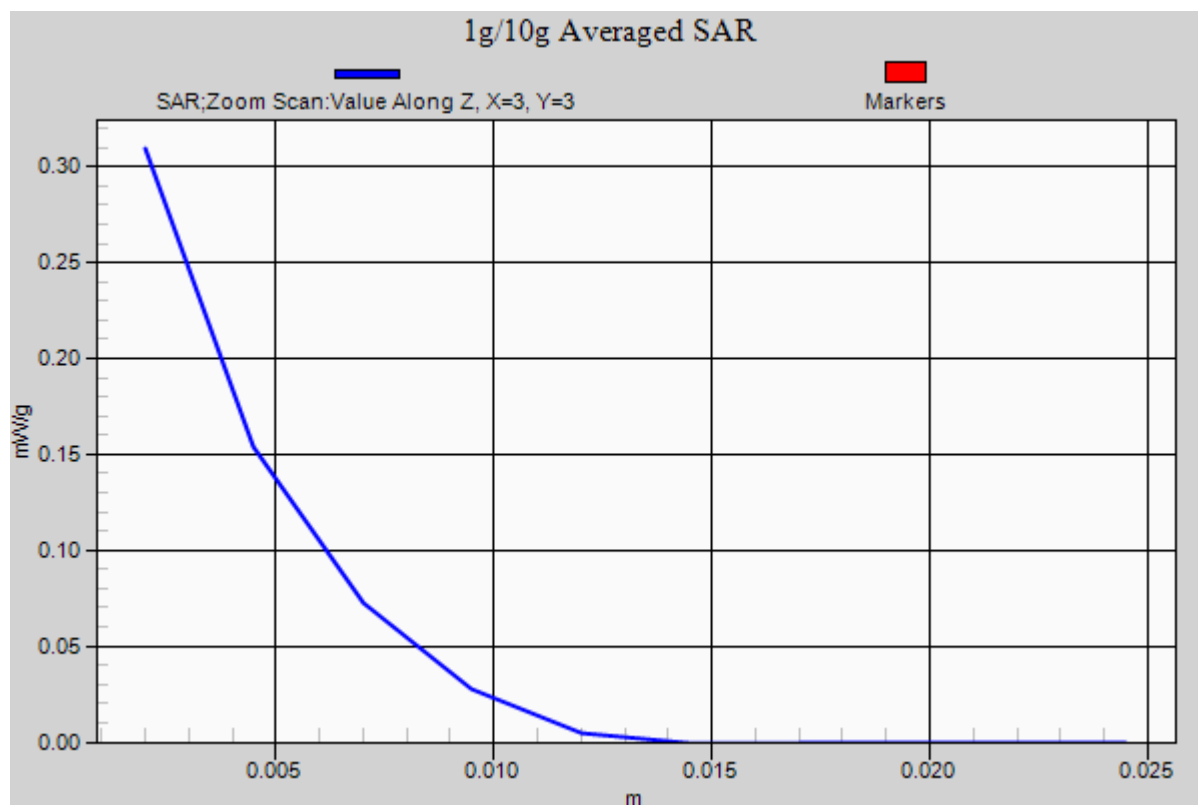
#74_WLAN5G_802.11a_Left Cheek_Ch52_2D**DUT: 292639**

Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5260$ MHz; $\sigma = 4.861$ mho/m; $\epsilon_r = 35.417$; $\rho =$ 1000 kg/m^3 Ambient Temperature : 22.8°C ; Liquid Temperature : 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2012/4/23
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch52/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.259 mW/g **Ch52/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$ Reference Value = 2.246 V/m ; Power Drift = 0.046 dB Peak SAR (extrapolated) = 0.483 mW/g **SAR(1 g) = 0.142 mW/g ; SAR(10 g) = 0.036 mW/g** Maximum value of SAR (measured) = 0.309 mW/g 

#75_WLAN5G_802.11a_Left Tilted_Ch52**DUT: 292639**

Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5260$ MHz; $\sigma = 4.861$ mho/m; $\epsilon_r = 35.417$; $\rho =$

1000 kg/m^3

Ambient Temperature : 22.8°C ; Liquid Temperature : 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3792; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2012/4/23
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch52/Area Scan (51x81x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.228 mW/g

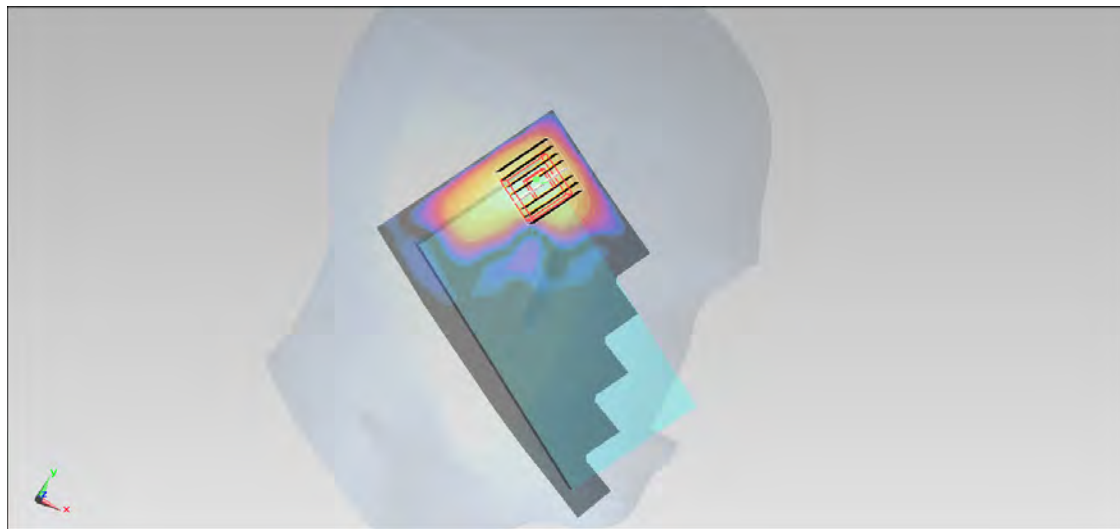
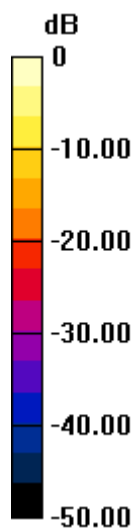
Ch52/Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 3.328 V/m ; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.388 mW/g

SAR(1 g) = 0.112 mW/g ; SAR(10 g) = 0.030 mW/g

Maximum value of SAR (measured) = 0.243 mW/g



0 dB = 0.243 mW/g = -12.29 dB mW/g

#80_WLAN5G_802.11a_Right Cheek_Ch165**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5825$ MHz; $\sigma = 5.43$ mho/m; $\epsilon_r = 34.2$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.72, 3.72, 3.72); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

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

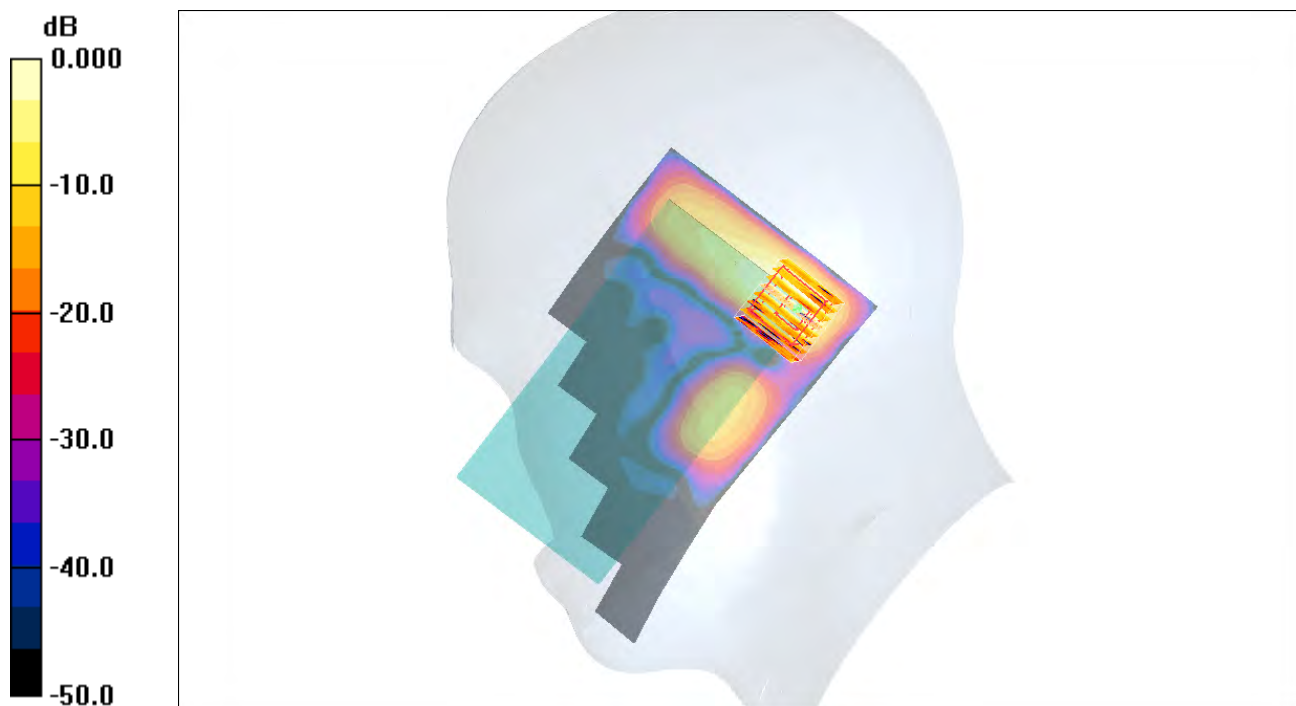
Ch165/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.01 V/m; Power Drift = 0.112 dB

Peak SAR (extrapolated) = 0.327 W/kg

SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.159 mW/g



0 dB = 0.159mW/g

#81_WLAN5G_802.11a_Right Tilted_Ch165**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5825$ MHz; $\sigma = 5.43$ mho/m; $\epsilon_r = 34.2$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.72, 3.72, 3.72); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

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

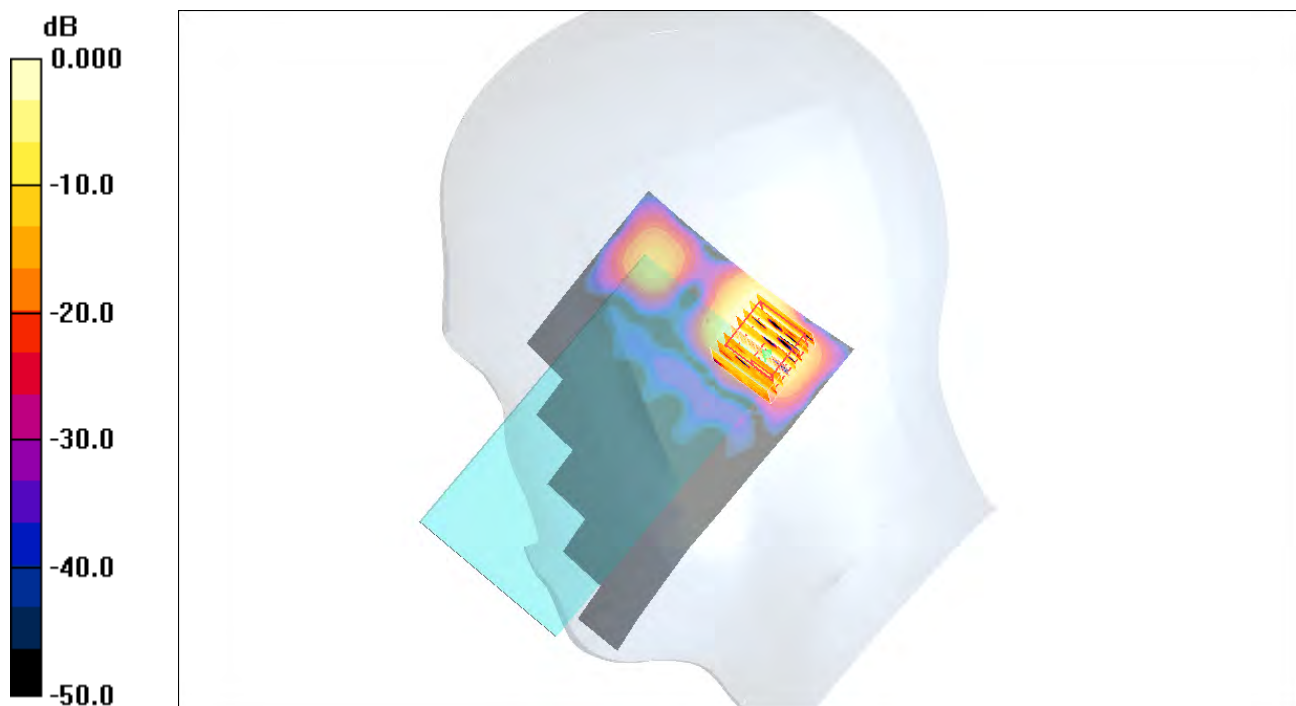
Ch165/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.31 V/m; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 0.364 W/kg

SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.020 mW/g

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



0 dB = 0.117mW/g

#82_WLAN5G_802.11a_Left Cheek_Ch165**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 5.43 \text{ mho/m}$; $\epsilon_r = 34.2$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.72, 3.72, 3.72); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.302 mW/g

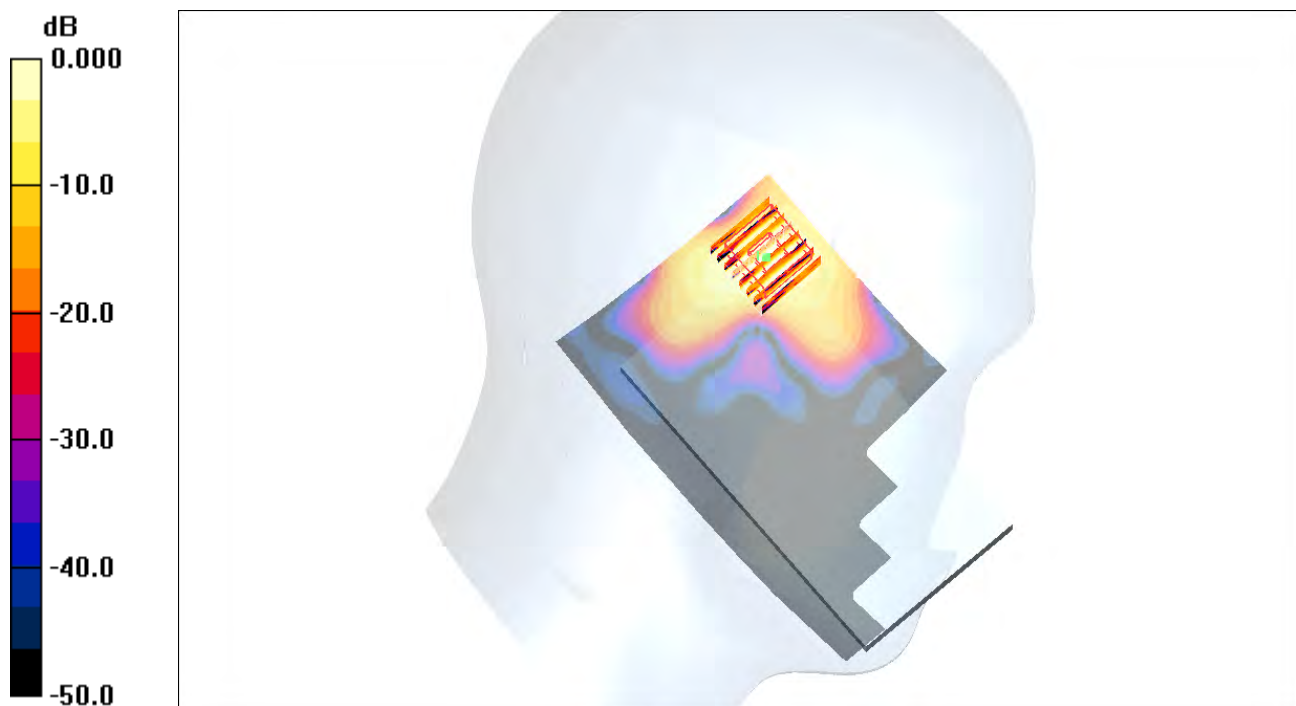
Ch165/Zoom Scan (8x8x10)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

Reference Value = 1.51 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.273 mW/g



0 dB = 0.273mW/g

#82_WLAN5G_802.11a_Left Cheek_Ch165_2D**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5825$ MHz; $\sigma = 5.43$ mho/m; $\epsilon_r = 34.2$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.72, 3.72, 3.72); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.302 mW/g

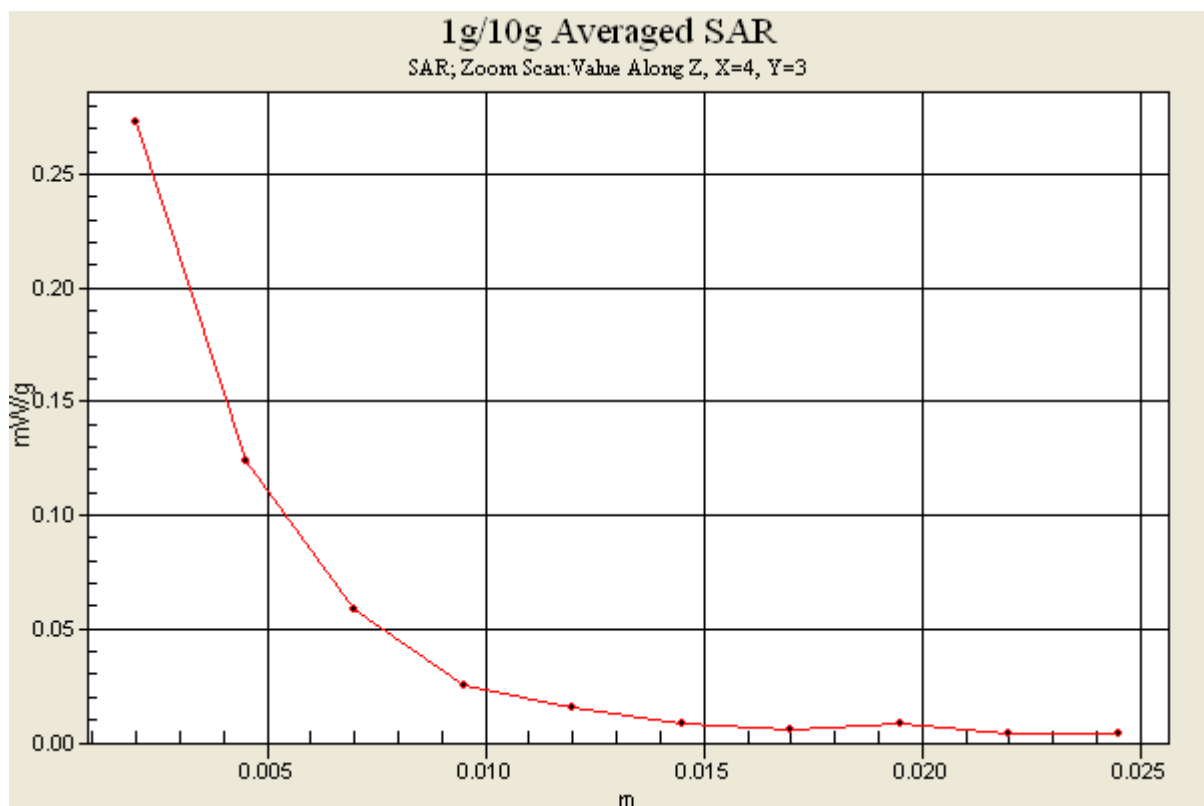
Ch165/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.51 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.036 mW/g

Maximum value of SAR (measured) = 0.273 mW/g



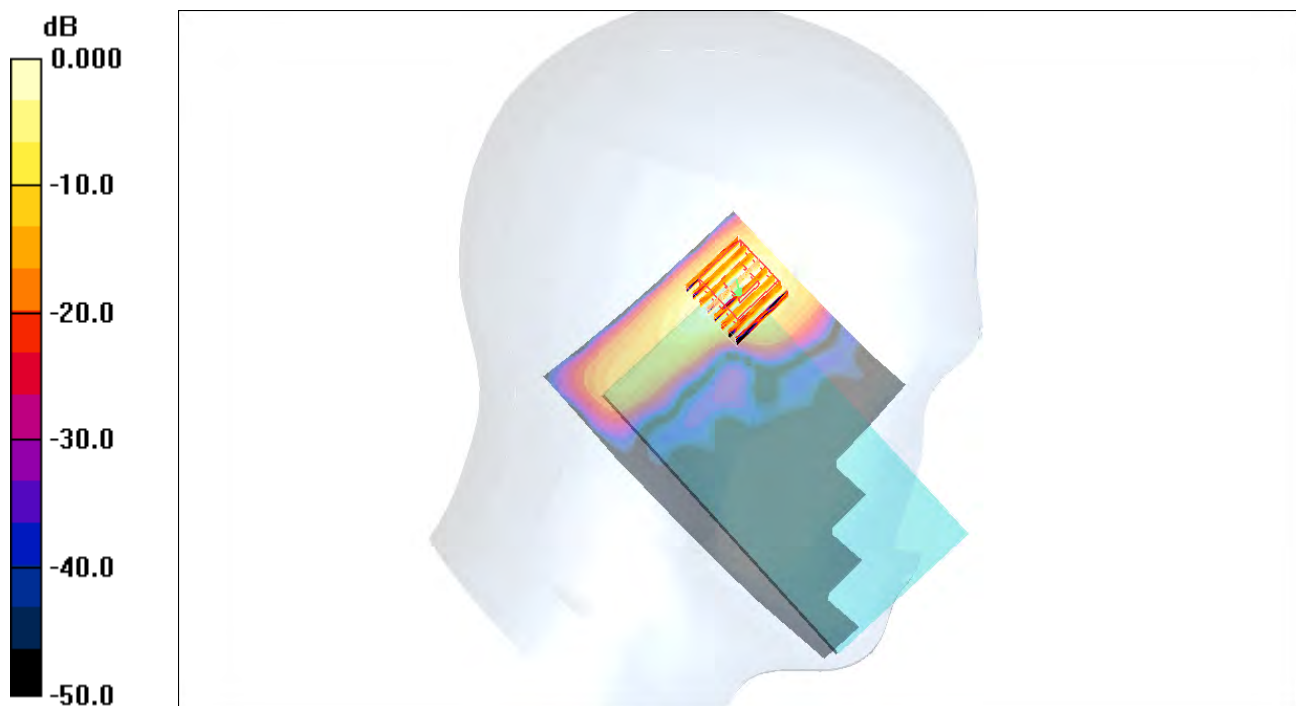
#83_WLAN5G_802.11a_Left Tilted_Ch165**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 5.43 \text{ mho/m}$; $\epsilon_r = 34.2$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.4°C ; Liquid Temperature : 21.4°C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.72, 3.72, 3.72); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.222 mW/g **Ch165/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$ Reference Value = 1.74 V/m ; Power Drift = 0.152 dB Peak SAR (extrapolated) = 0.339 W/kg **SAR(1 g) = 0.094 mW/g ; SAR(10 g) = 0.027 mW/g** Maximum value of SAR (measured) = 0.200 mW/g 0 dB = 0.200 mW/g

#76_WLAN5G_802.11a_Right Cheek_Ch132**DUT: 292639**

Communication System: 802.11a; Frequency: 5660 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5660$ MHz; $\sigma = 5.28$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.92, 3.92, 3.92); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch132/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.489 mW/g

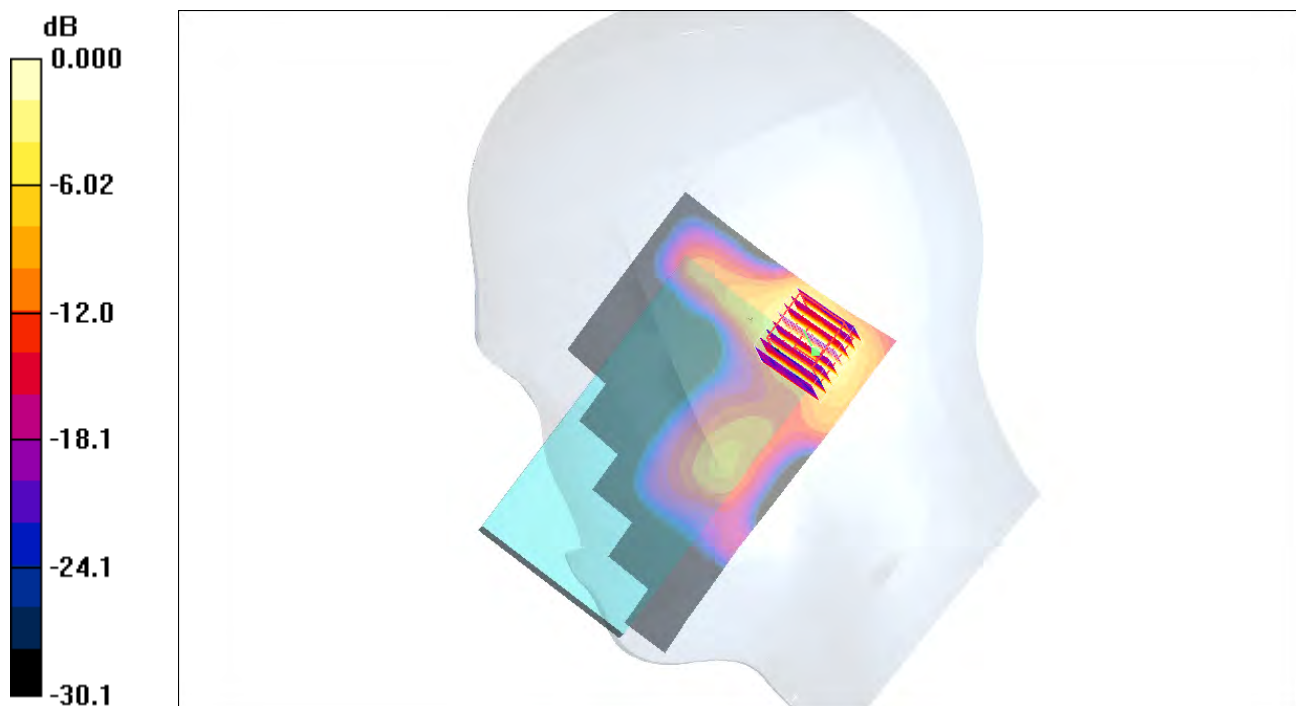
Ch132/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.64 V/m; Power Drift = 0.173 dB

Peak SAR (extrapolated) = 0.958 W/kg

SAR(1 g) = 0.288 mW/g; SAR(10 g) = 0.098 mW/g

Maximum value of SAR (measured) = 0.533 mW/g



0 dB = 0.533mW/g

#77_WLAN5G_802.11a_Right Tilted_Ch132**DUT: 292639**

Communication System: 802.11a; Frequency: 5660 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5660$ MHz; $\sigma = 5.28$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.92, 3.92, 3.92); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch132/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.508 mW/g

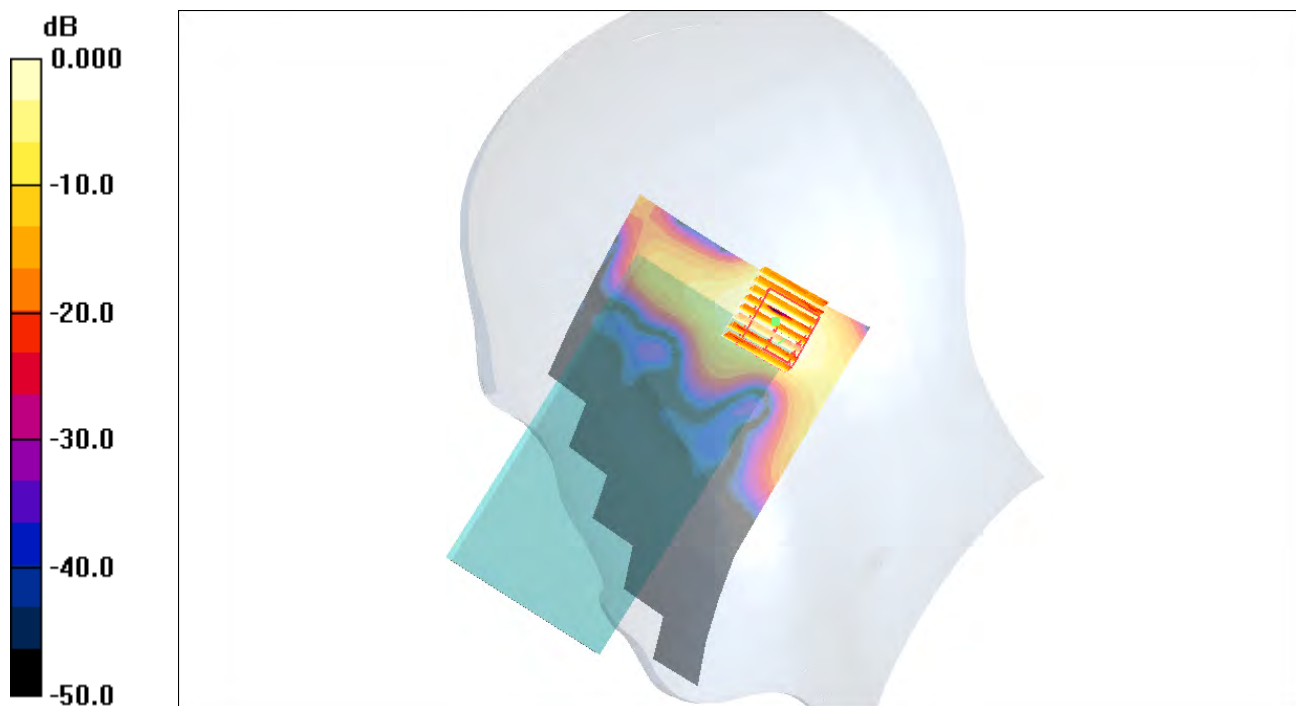
Ch132/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 4.54 V/m; Power Drift = -0.163 dB

Peak SAR (extrapolated) = 0.802 W/kg

SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.086 mW/g

Maximum value of SAR (measured) = 0.462 mW/g



0 dB = 0.462mW/g

#78_WLAN5G_802.11a_Left Cheek_Ch132**DUT: 292639**

Communication System: 802.11a; Frequency: 5660 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5660$ MHz; $\sigma = 5.28$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.92, 3.92, 3.92); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch132/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

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

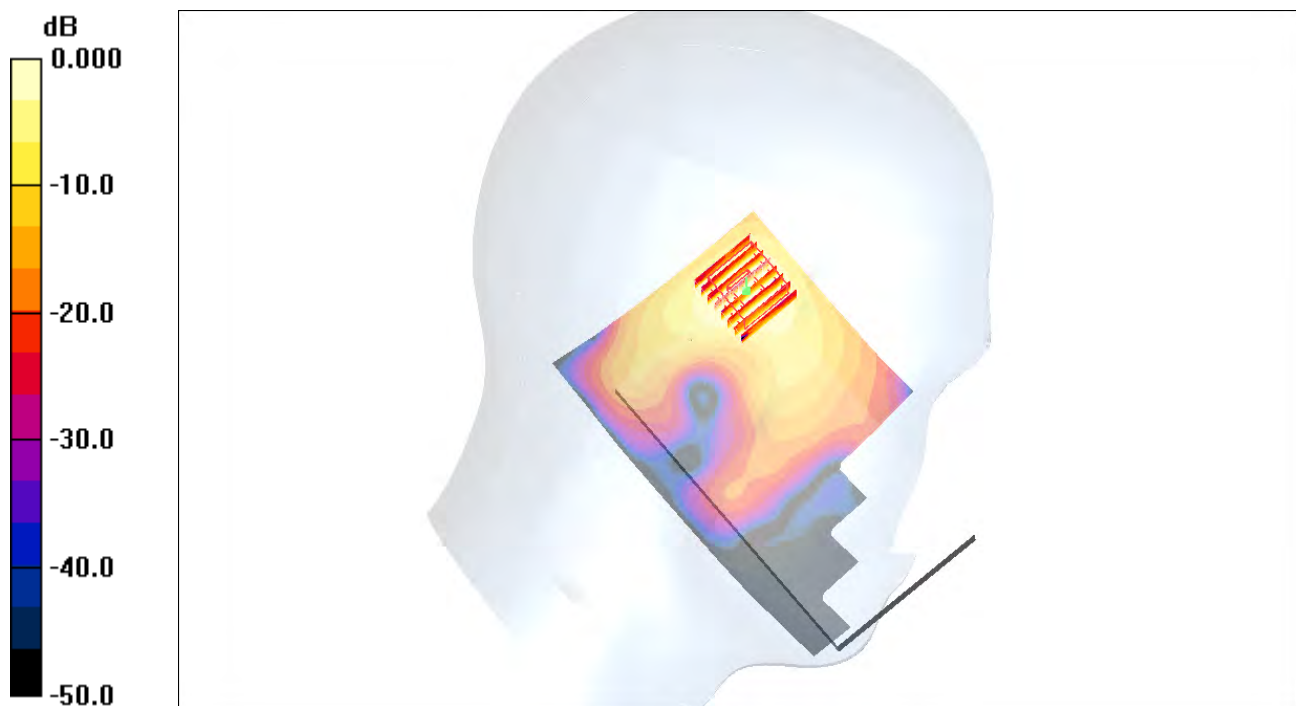
Ch132/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.11 V/m; Power Drift = 0.172 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.170 mW/g

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



#78_WLAN5G_802.11a_Left Cheek_Ch132_2D**DUT: 292639**

Communication System: 802.11a; Frequency: 5660 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5660$ MHz; $\sigma = 5.28$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.92, 3.92, 3.92); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch132/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

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

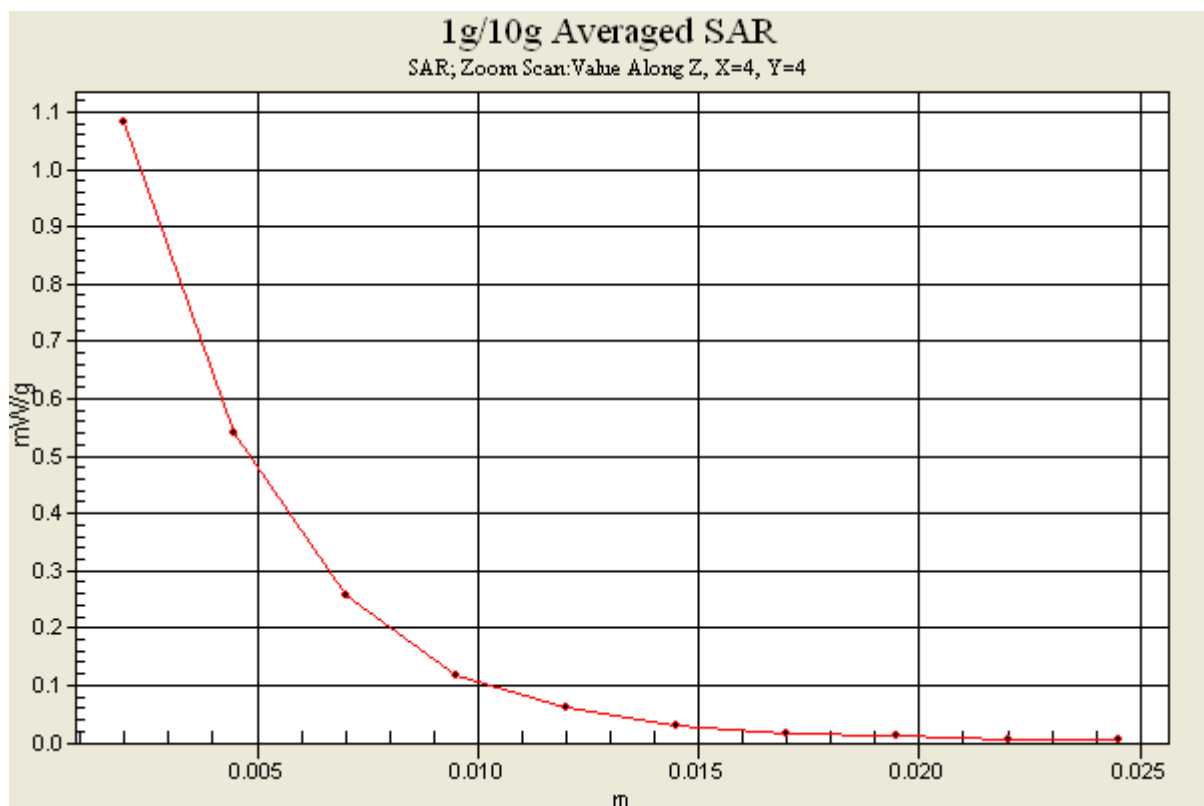
Ch132/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.11 V/m; Power Drift = 0.172 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.170 mW/g

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



#79_WLAN5G_802.11a_Left Tilted_Ch132**DUT: 292639**

Communication System: 802.11a; Frequency: 5660 MHz; Duty Cycle: 1:1

Medium: HSL_5G_121005 Medium parameters used: $f = 5660$ MHz; $\sigma = 5.28$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.4 °C ; Liquid Temperature : 21.4 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.92, 3.92, 3.92); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch132/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.836 mW/g

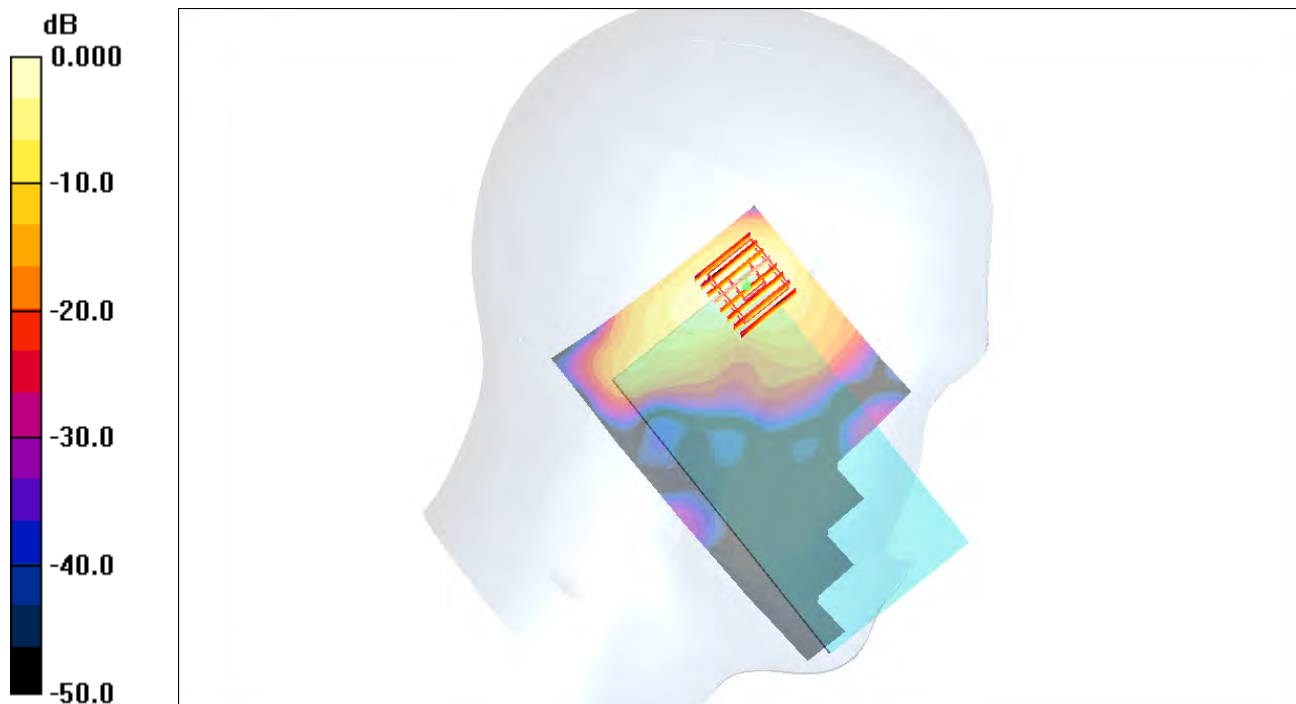
Ch132/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 4.56 V/m; Power Drift = -0.165 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.135 mW/g

Maximum value of SAR (measured) = 0.825 mW/g



0 dB = 0.825mW/g

#32_GSM850_GPRS (3 Tx slots)_Front_1cm_Ch189**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:2.67

Medium: MSL_850_121003 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.735 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.0 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.842 W/kg

SAR(1 g) = 0.702 mW/g; SAR(10 g) = 0.545 mW/g

Maximum value of SAR (measured) = 0.733 mW/g

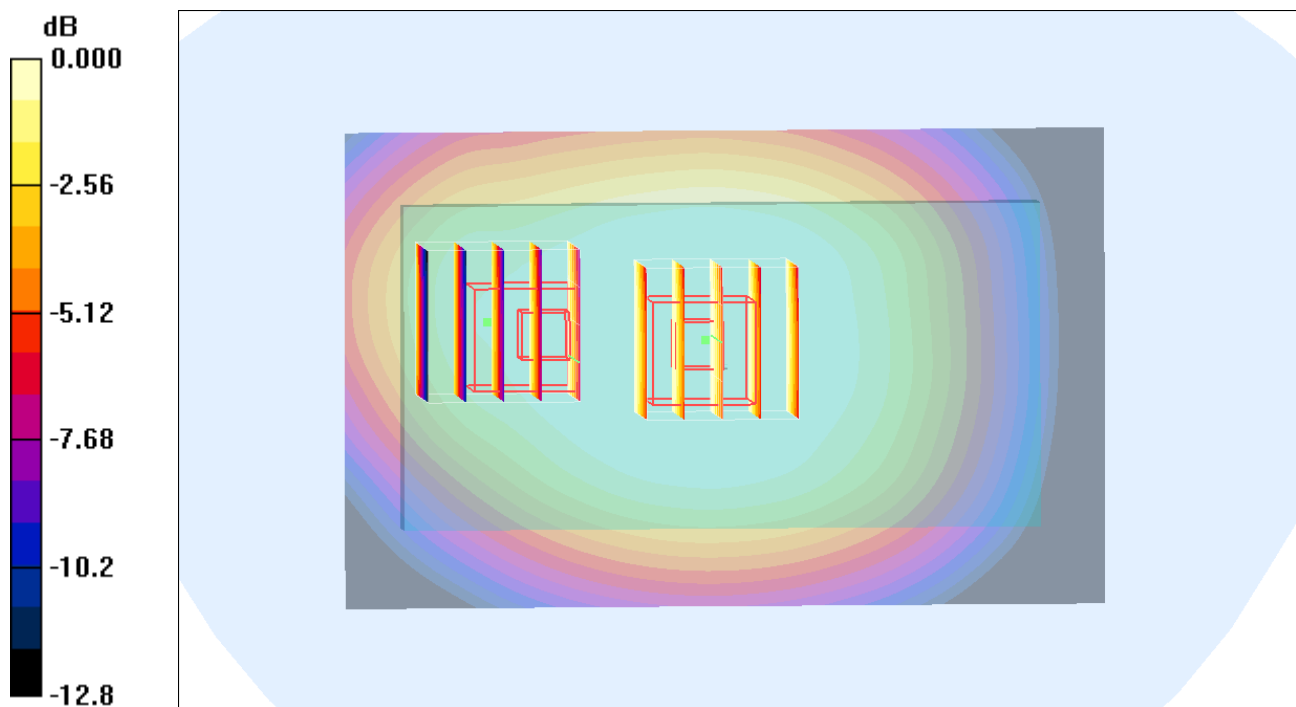
Ch189/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.0 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.690 W/kg

SAR(1 g) = 0.508 mW/g; SAR(10 g) = 0.349 mW/g

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



0 dB = 0.583mW/g

#33_GSM850_GPRS (3 Tx slots)_Back_1cm_Ch189**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:2.67

Medium: MSL_850_121003 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.973 mW/g

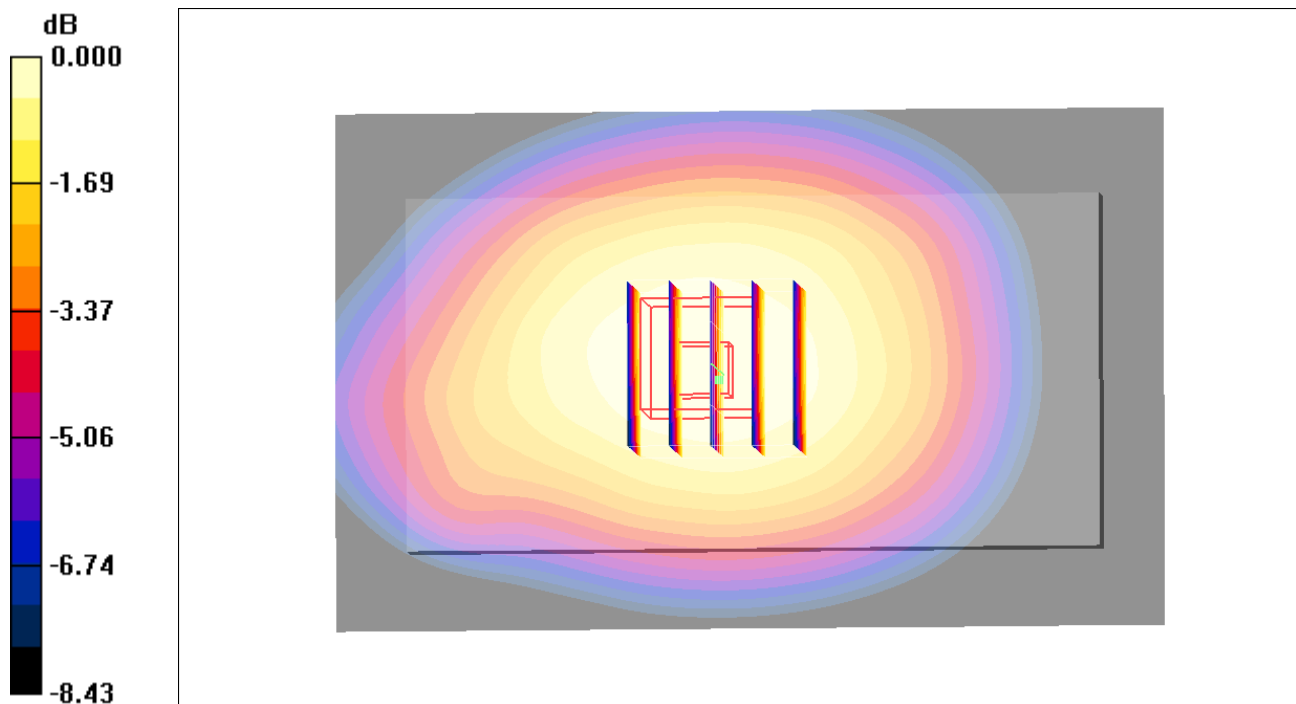
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.8 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.921 mW/g; SAR(10 g) = 0.706 mW/g

Maximum value of SAR (measured) = 0.965 mW/g



0 dB = 0.965mW/g

#38_GSM850_GPRS (3 Tx slots)_Left Side_1cm_Ch189**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:2.67

Medium: MSL_850_121003 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.839 mW/g

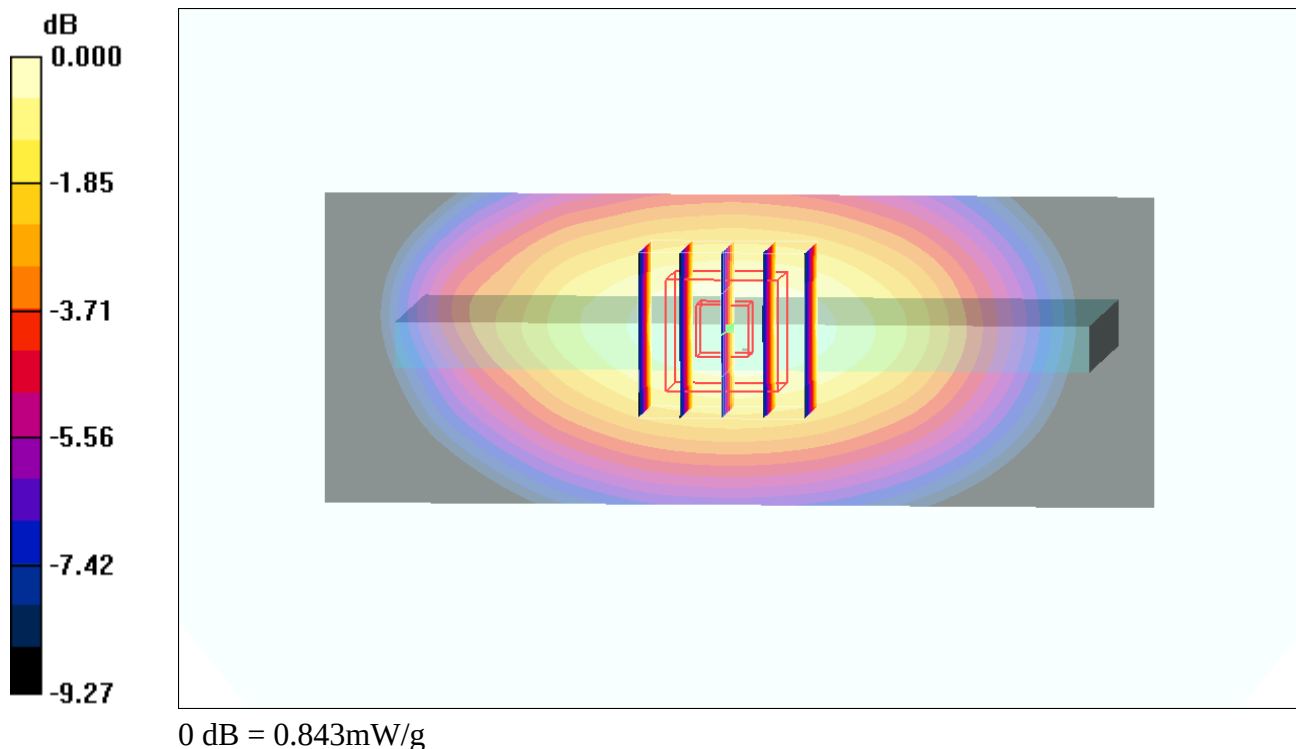
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.0 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.794 mW/g; SAR(10 g) = 0.553 mW/g

Maximum value of SAR (measured) = 0.843 mW/g



#41_GSM850_GPRS (3 Tx slots)_Bottom Side_1cm_Ch189**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:2.67

Medium: MSL_850_121003 Medium parameters used : $f = 836.4$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.410 mW/g

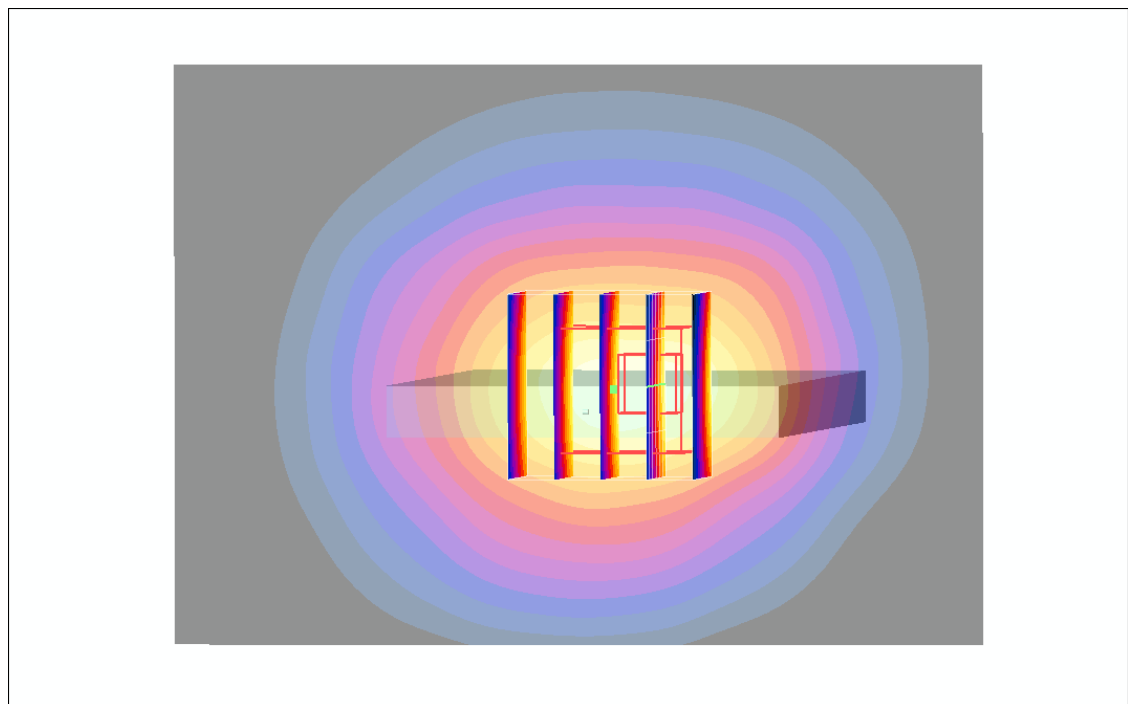
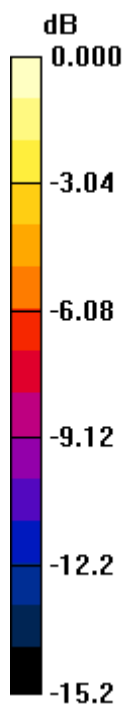
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.7 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 0.730 W/kg

SAR(1 g) = 0.390 mW/g; SAR(10 g) = 0.217 mW/g

Maximum value of SAR (measured) = 0.433 mW/g



0 dB = 0.433mW/g

#34_GSM850_GPRS (3 Tx slots)_Back_1cm_Ch128**DUT: 292639**

Communication System: GSM850; Frequency: 824.2 MHz; Duty Cycle: 1:2.67

Medium: MSL_850_121003 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.952$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch128/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.940 mW/g

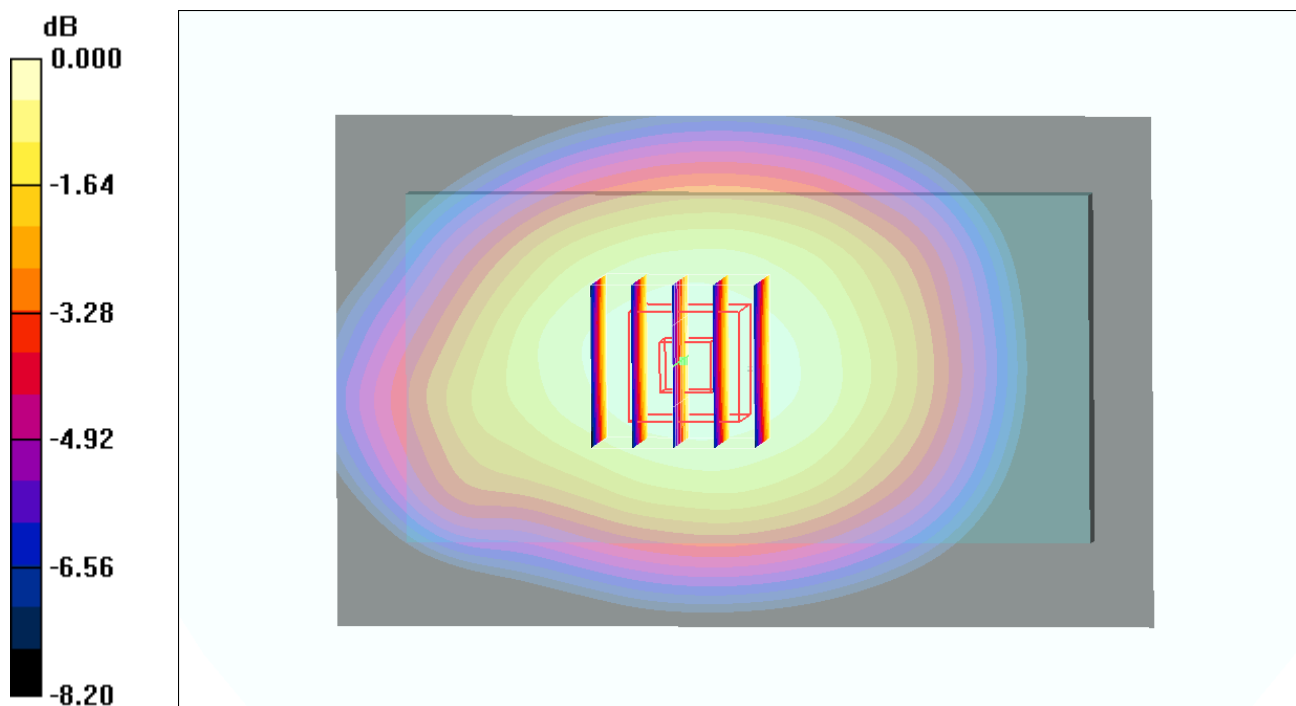
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.2 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.895 mW/g; SAR(10 g) = 0.687 mW/g

Maximum value of SAR (measured) = 0.937 mW/g



0 dB = 0.937mW/g

#35_GSM850_GPRS (3 Tx slots)_Back_1cm_Ch251**DUT: 292639**

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:2.67

Medium: MSL_850_121003 Medium parameters used: $f = 849$ MHz; $\sigma = 0.976$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch251/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.00 mW/g

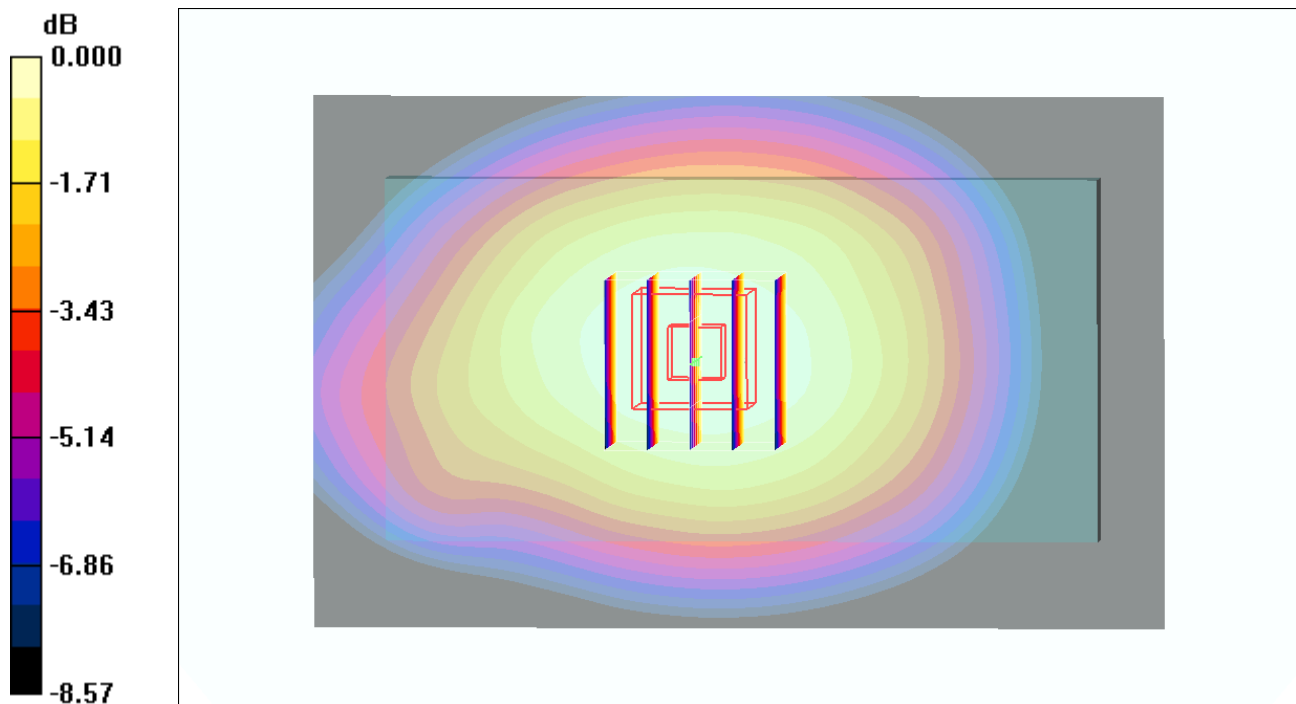
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.1 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.945 mW/g; SAR(10 g) = 0.723 mW/g

Maximum value of SAR (measured) = 0.992 mW/g



0 dB = 0.992mW/g

#35_GSM850_GPRS (3 Tx slots)_Back_1cm_Ch251_2D**DUT: 292639**

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:2.67

Medium: MSL_850_121003 Medium parameters used: $f = 849$ MHz; $\sigma = 0.976$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch251/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.00 mW/g

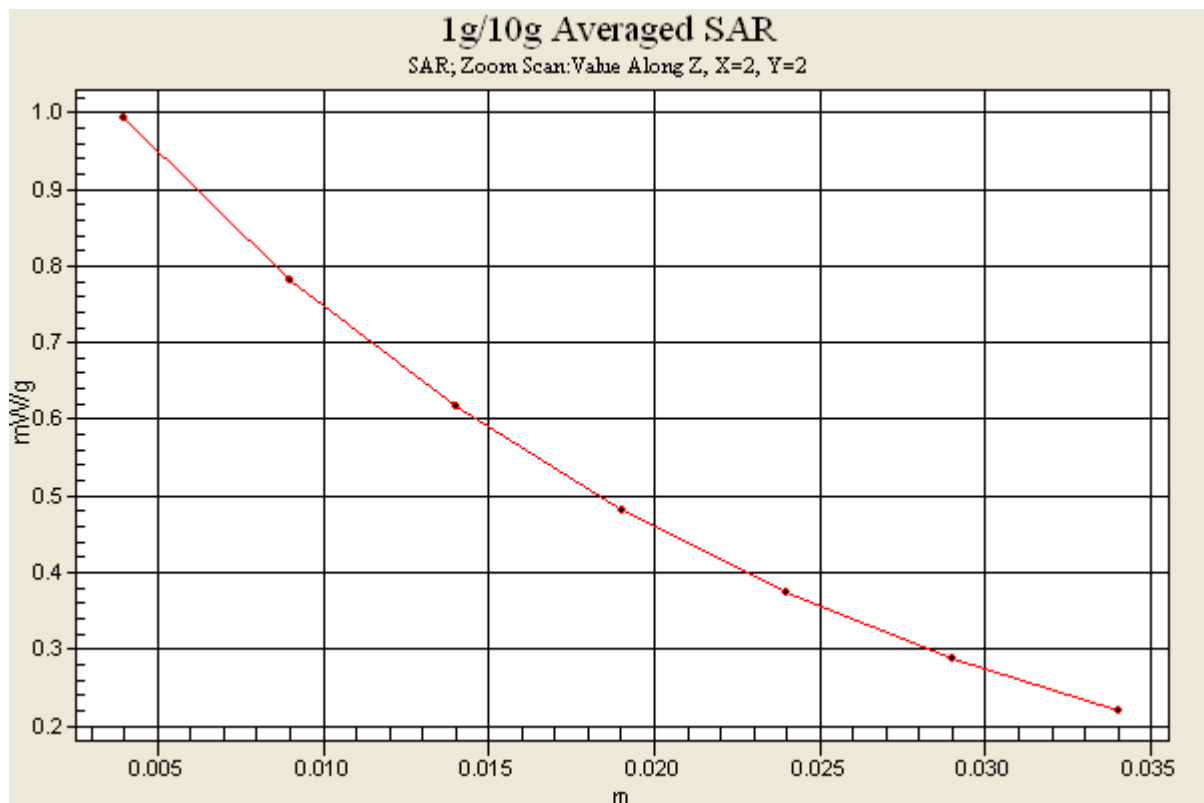
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.1 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.945 mW/g; SAR(10 g) = 0.723 mW/g

Maximum value of SAR (measured) = 0.992 mW/g



#32_GSM850_GPRS (3 Tx slots)_Front_1cm_Ch189**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:2.67

Medium: MSL_850_121003 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.735 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.0 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.842 W/kg

SAR(1 g) = 0.702 mW/g; SAR(10 g) = 0.545 mW/g

Maximum value of SAR (measured) = 0.733 mW/g

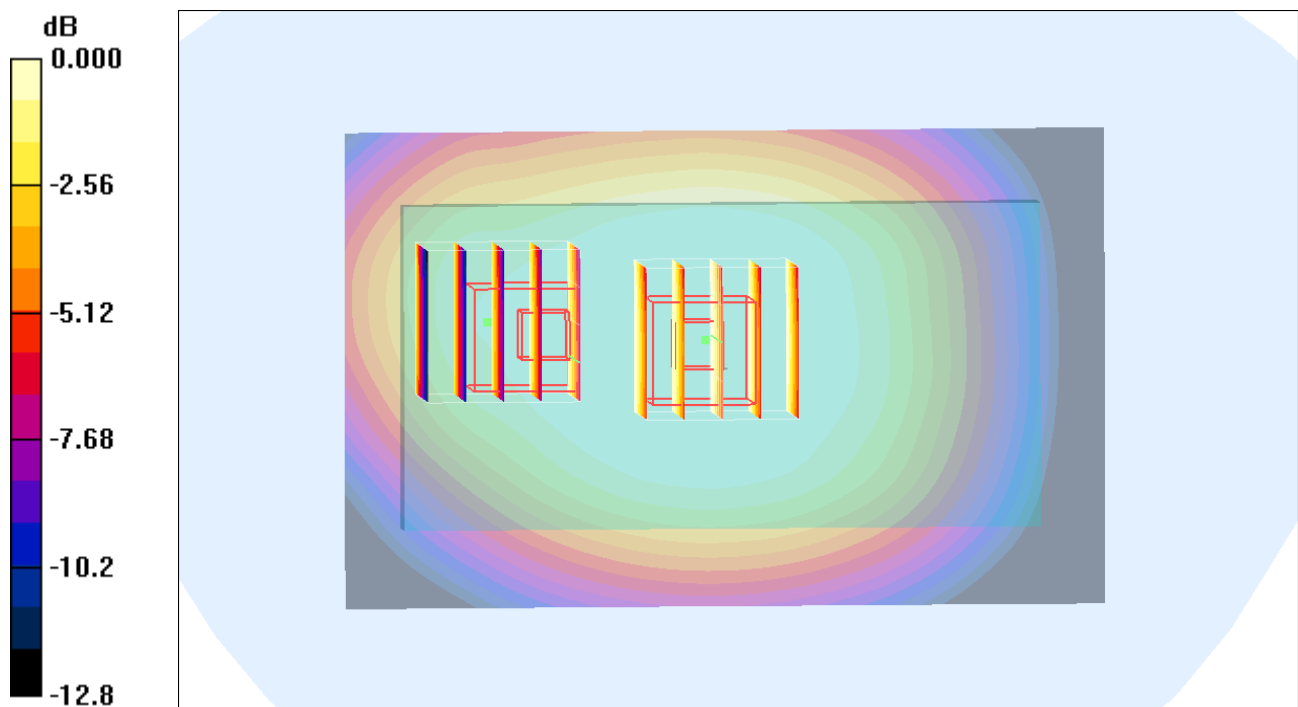
Ch189/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.0 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.690 W/kg

SAR(1 g) = 0.508 mW/g; SAR(10 g) = 0.349 mW/g

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



0 dB = 0.583mW/g

#33_GSM850_GPRS (3 Tx slots)_Back_1cm_Ch189**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:2.67

Medium: MSL_850_121003 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.973 mW/g

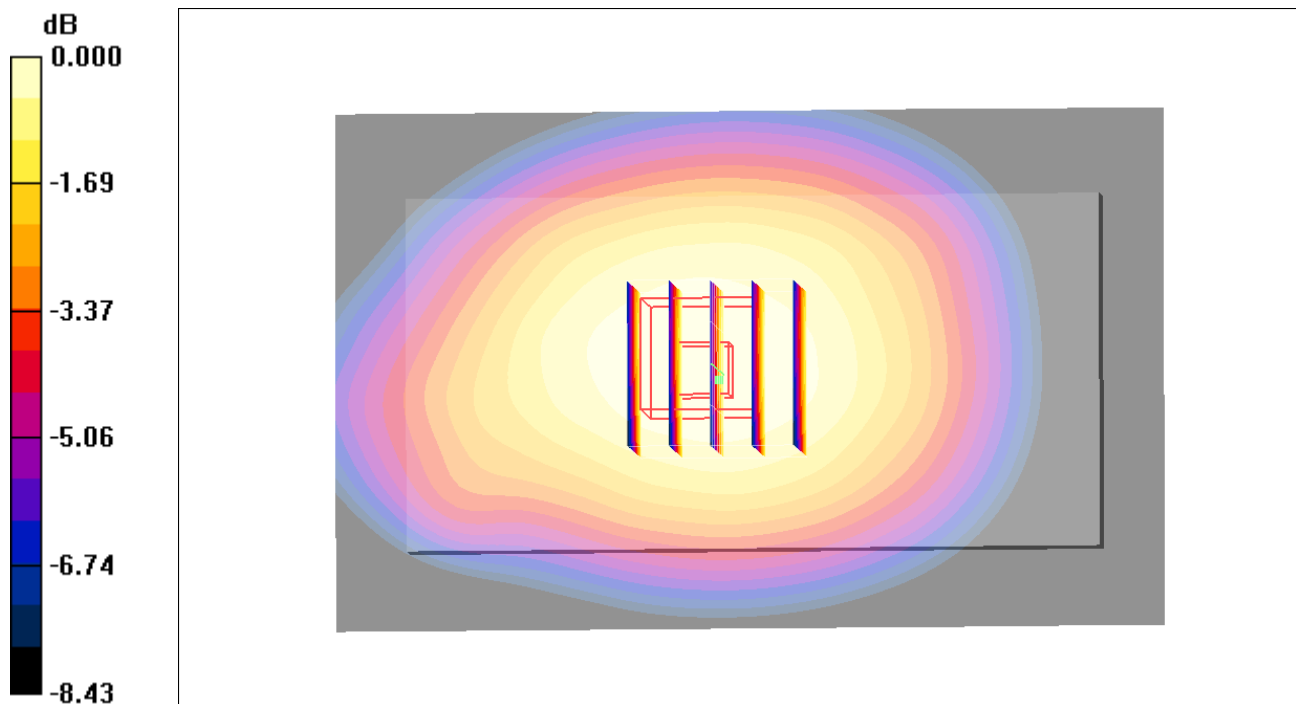
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.8 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.921 mW/g; SAR(10 g) = 0.706 mW/g

Maximum value of SAR (measured) = 0.965 mW/g



0 dB = 0.965mW/g

#34_GSM850_GPRS (3 Tx slots)_Back_1cm_Ch128**DUT: 292639**

Communication System: GSM850; Frequency: 824.2 MHz; Duty Cycle: 1:2.67

Medium: MSL_850_121003 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.952$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch128/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.940 mW/g

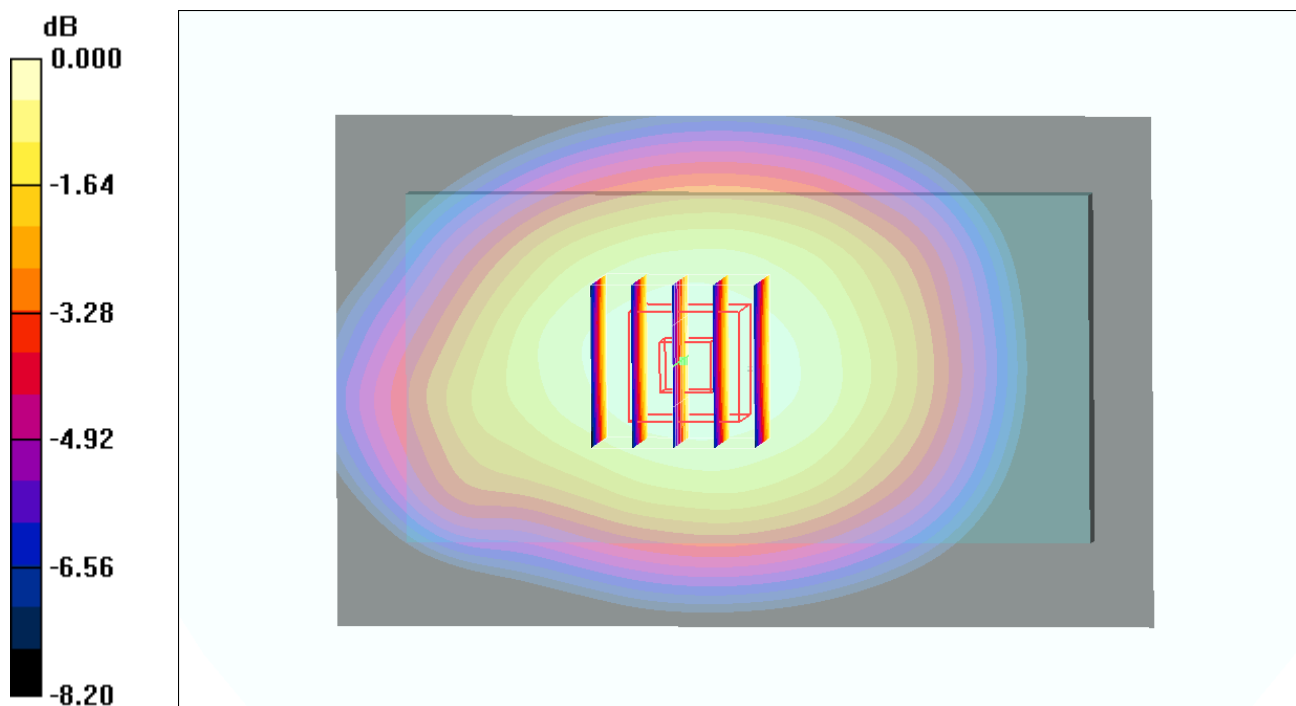
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.2 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.895 mW/g; SAR(10 g) = 0.687 mW/g

Maximum value of SAR (measured) = 0.937 mW/g



0 dB = 0.937mW/g

#35_GSM850_GPRS (3 Tx slots)_Back_1cm_Ch251**DUT: 292639**

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:2.67

Medium: MSL_850_121003 Medium parameters used: $f = 849$ MHz; $\sigma = 0.976$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch251/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.00 mW/g

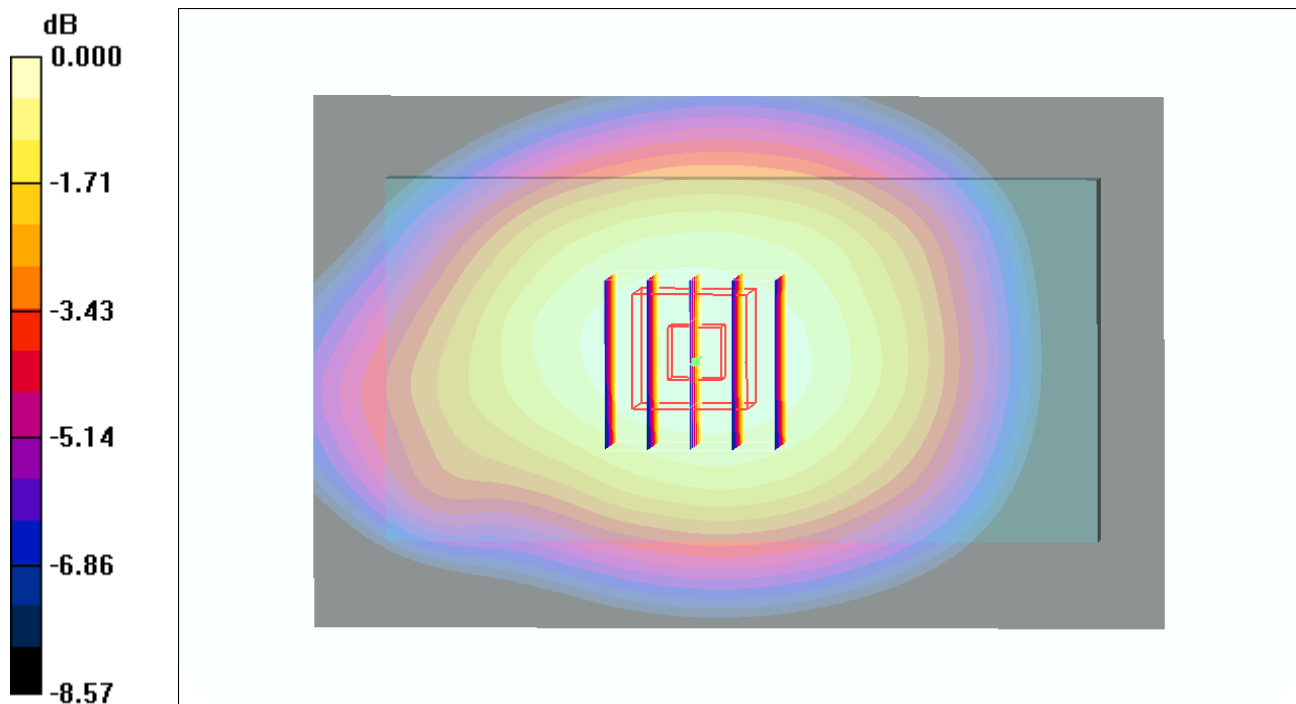
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.1 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.945 mW/g; SAR(10 g) = 0.723 mW/g

Maximum value of SAR (measured) = 0.992 mW/g



0 dB = 0.992mW/g

#36_GSM850_GSM Voice_Front_1cm_Ch189;Headset**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: MSL_850_121003 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.7 V/m; Power Drift = 0.154 dB

Peak SAR (extrapolated) = 0.397 W/kg

SAR(1 g) = 0.324 mW/g; SAR(10 g) = 0.253 mW/g

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

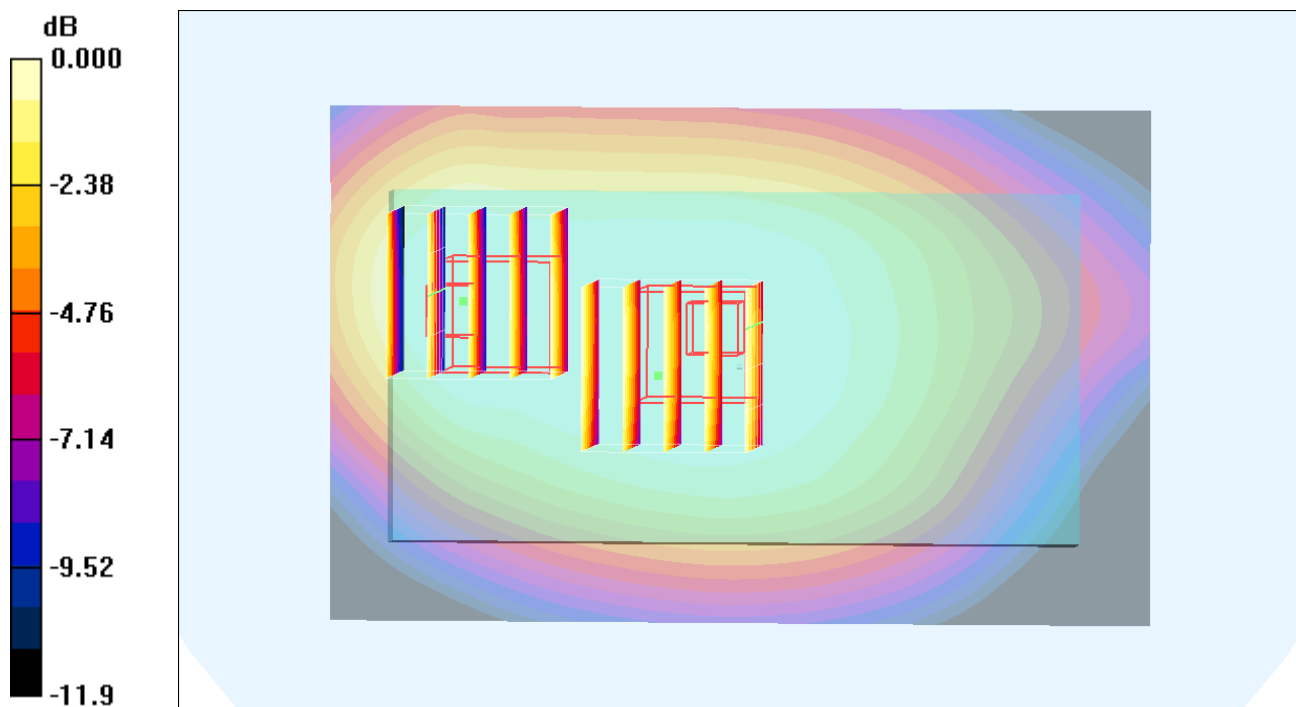
Ch189/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.7 V/m; Power Drift = 0.154 dB

Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.295 mW/g; SAR(10 g) = 0.211 mW/g

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



0 dB = 0.311mW/g

#37_GSM850_GSM Voice_Back_1cm_Ch189;Headset**DUT: 292639**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: MSL_850_121003 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch189/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.508 mW/g

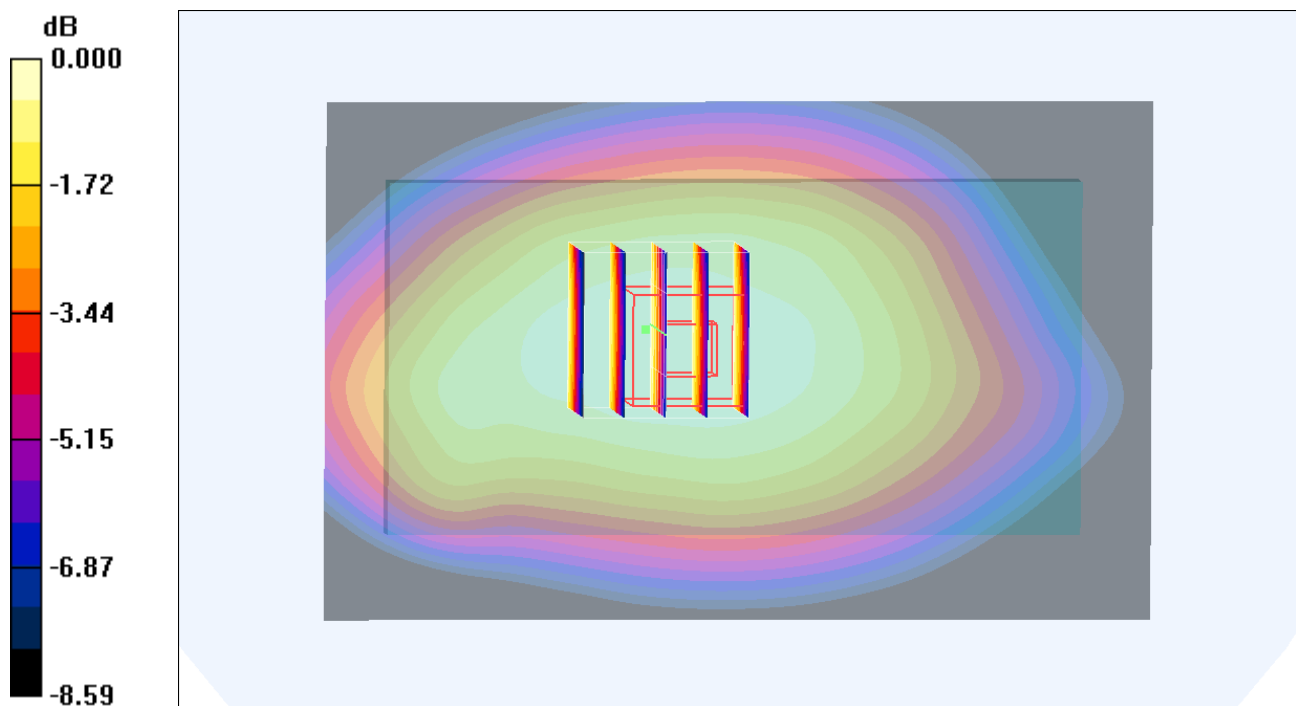
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.1 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.595 W/kg

SAR(1 g) = 0.484 mW/g; SAR(10 g) = 0.371 mW/g

Maximum value of SAR (measured) = 0.505 mW/g



0 dB = 0.505mW/g

#17_GSM1900_GPRS (4 Tx slots)_Front_1cm_Ch810**DUT: 292639**

Communication System: PCS; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: MSL_1900_121002 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch810/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.338 mW/g

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.53 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 0.447 W/kg

SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.181 mW/g

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

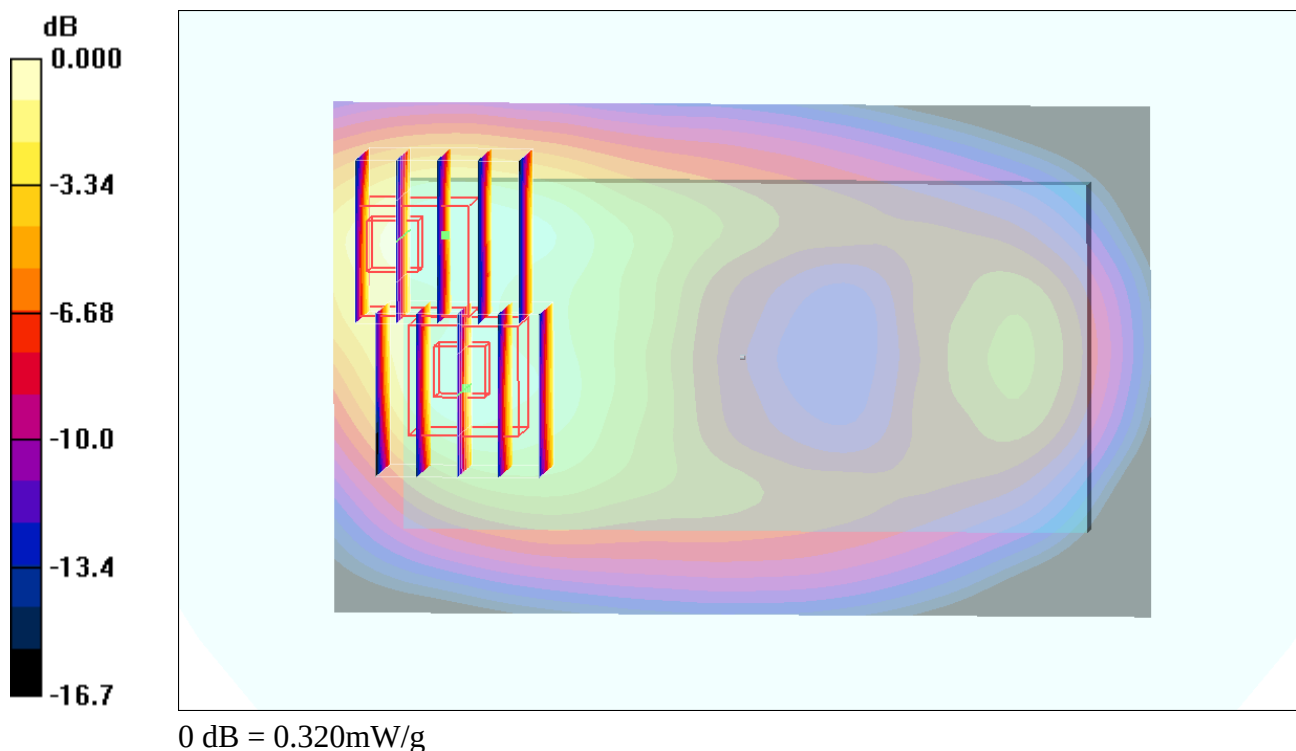
Ch810/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.53 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.292 mW/g; SAR(10 g) = 0.159 mW/g

Maximum value of SAR (measured) = 0.320 mW/g



#18_GSM1900_GPRS (4 Tx slots)_Back_1cm_Ch810**DUT: 292639**

Communication System: PCS; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: MSL_1900_121002 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch810/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

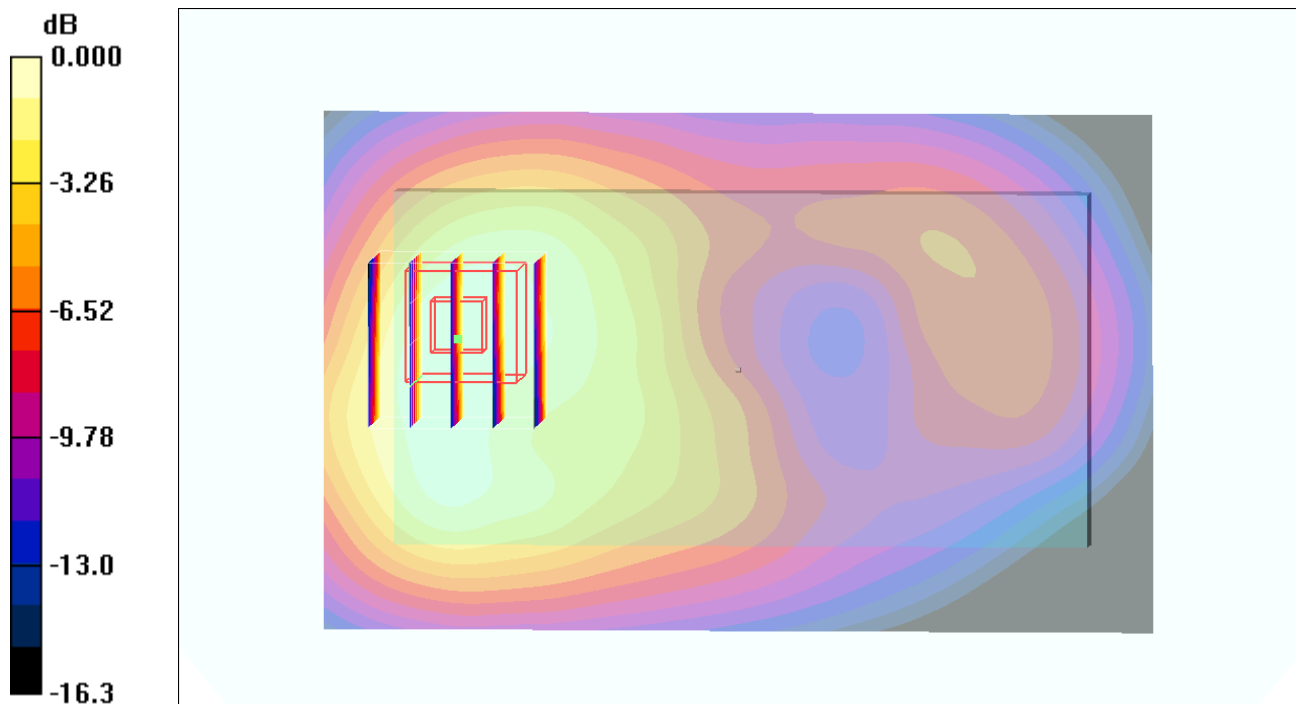
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.81 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.586 W/kg

SAR(1 g) = 0.356 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.388 mW/g



0 dB = 0.388mW/g

#19_GSM1900_GPRS (4 Tx slots)_Left Side_1cm_Ch810**DUT: 292639**

Communication System: PCS; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: MSL_1900_121002 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch810/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm

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

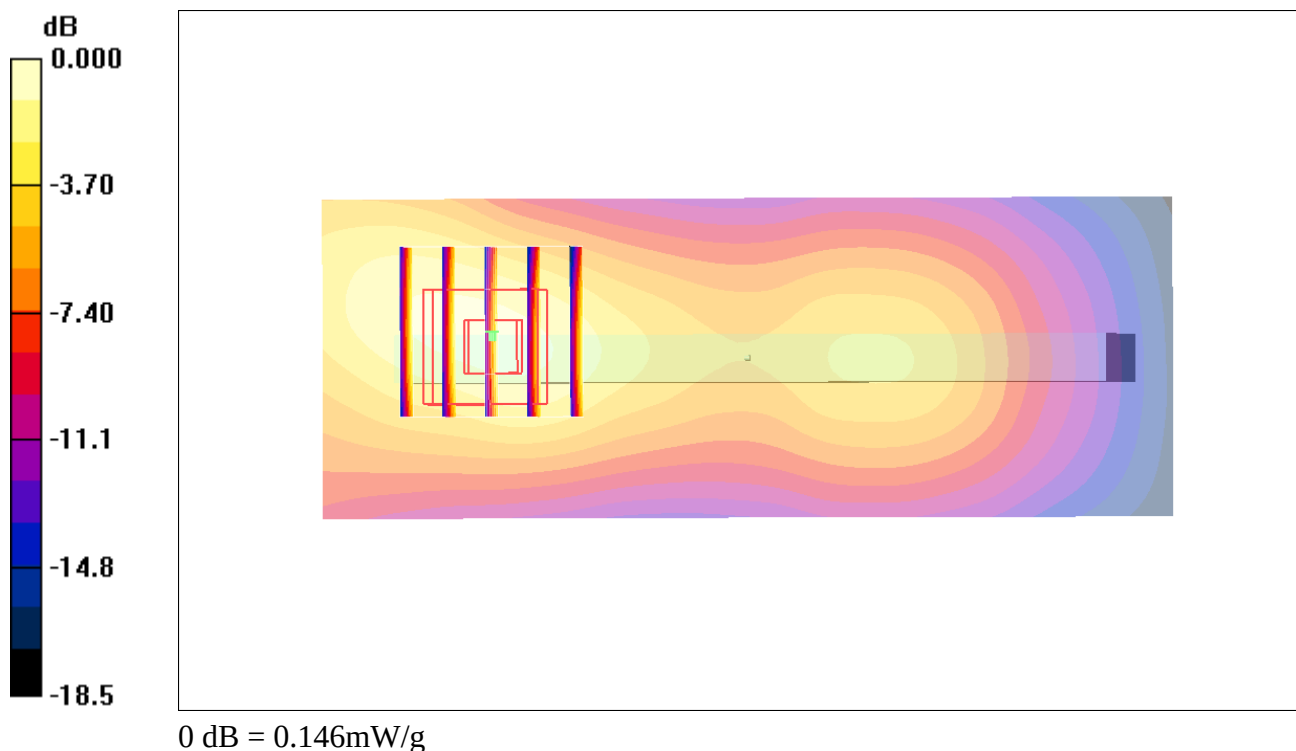
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.44 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 0.217 W/kg

SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.076 mW/g

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



#22_GSM1900_GPRS (4 Tx slots)_Bottom Side_1cm_Ch810**DUT: 292639**

Communication System: PCS; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: MSL_1900_121002 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch810/Area Scan (31x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.428 mW/g

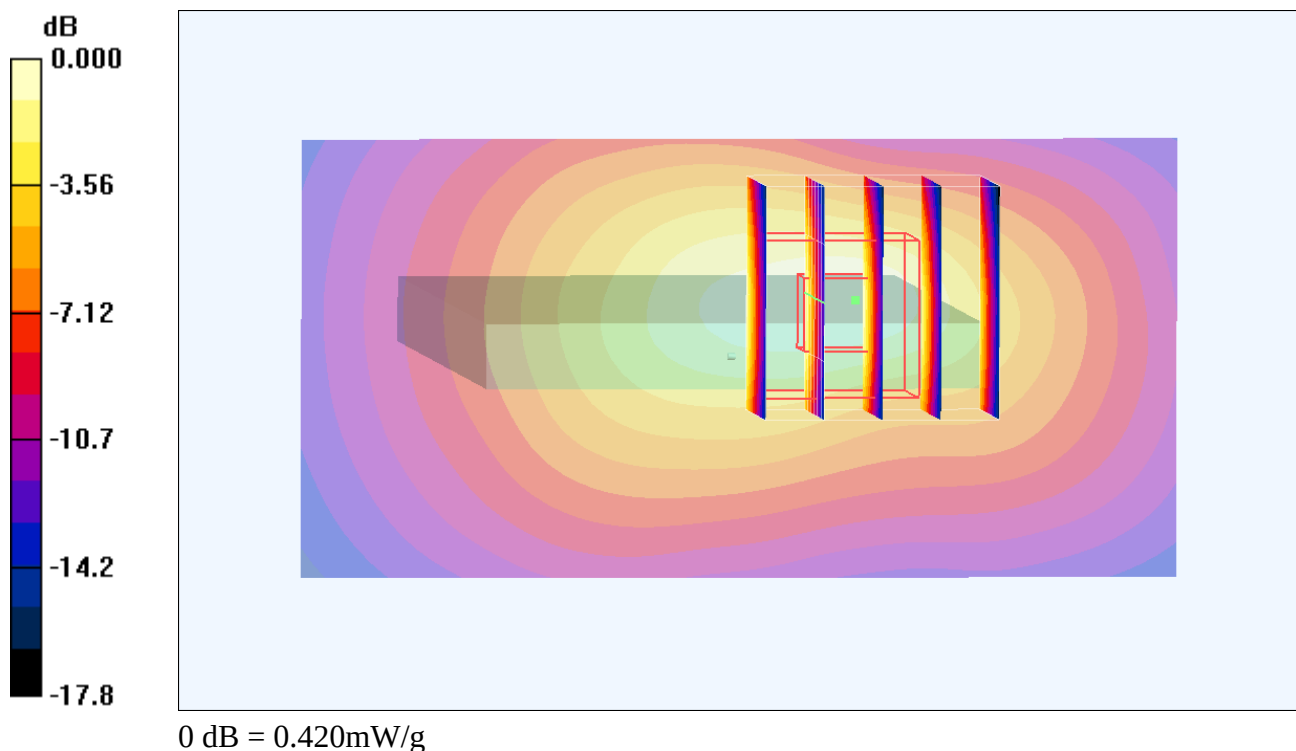
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.9 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.404 mW/g; SAR(10 g) = 0.215 mW/g

Maximum value of SAR (measured) = 0.420 mW/g



#22_GSM1900_GPRS (4 Tx slots)_Bottom Side_1cm_Ch810_2D**DUT: 292639**

Communication System: PCS; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: MSL_1900_121002 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch810/Area Scan (31x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.428 mW/g

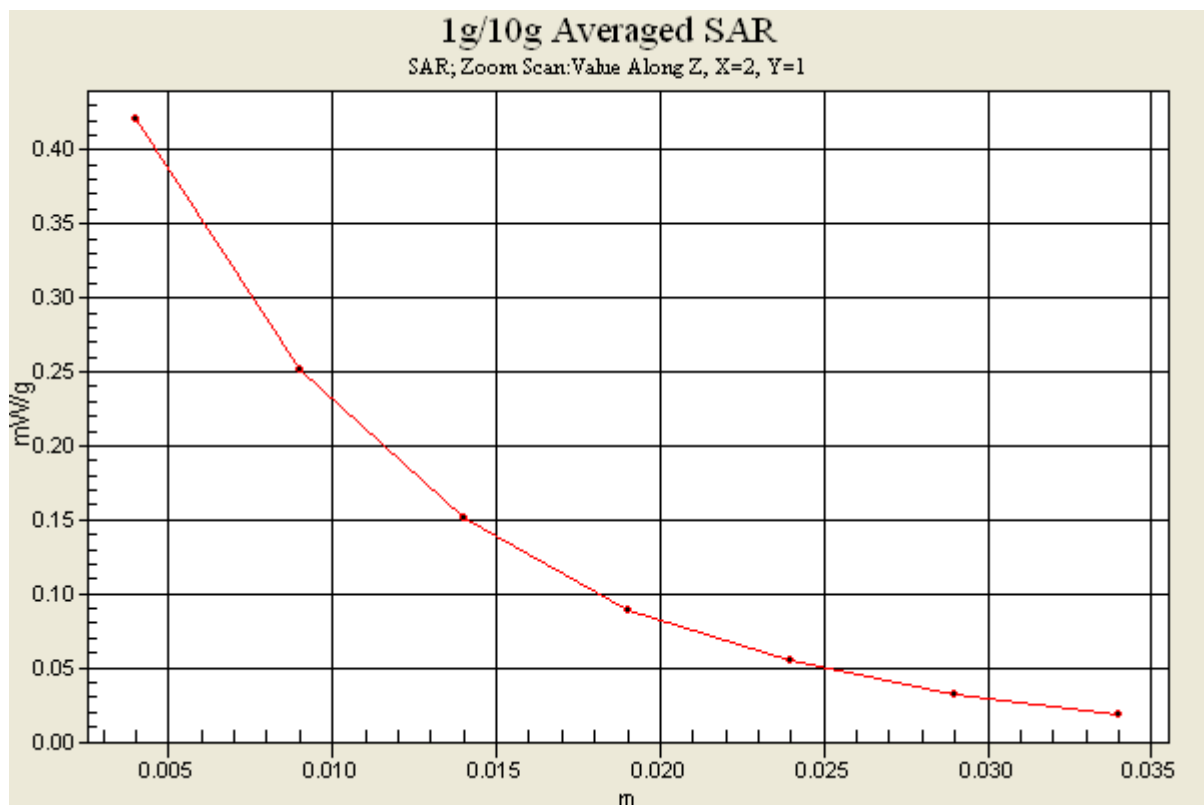
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.9 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.404 mW/g; SAR(10 g) = 0.215 mW/g

Maximum value of SAR (measured) = 0.420 mW/g



#17_GSM1900_GPRS (4 Tx slots)_Front_1cm_Ch810**DUT: 292639**

Communication System: PCS; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: MSL_1900_121002 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/5/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch810/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.338 mW/g

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.53 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 0.447 W/kg

SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.181 mW/g

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

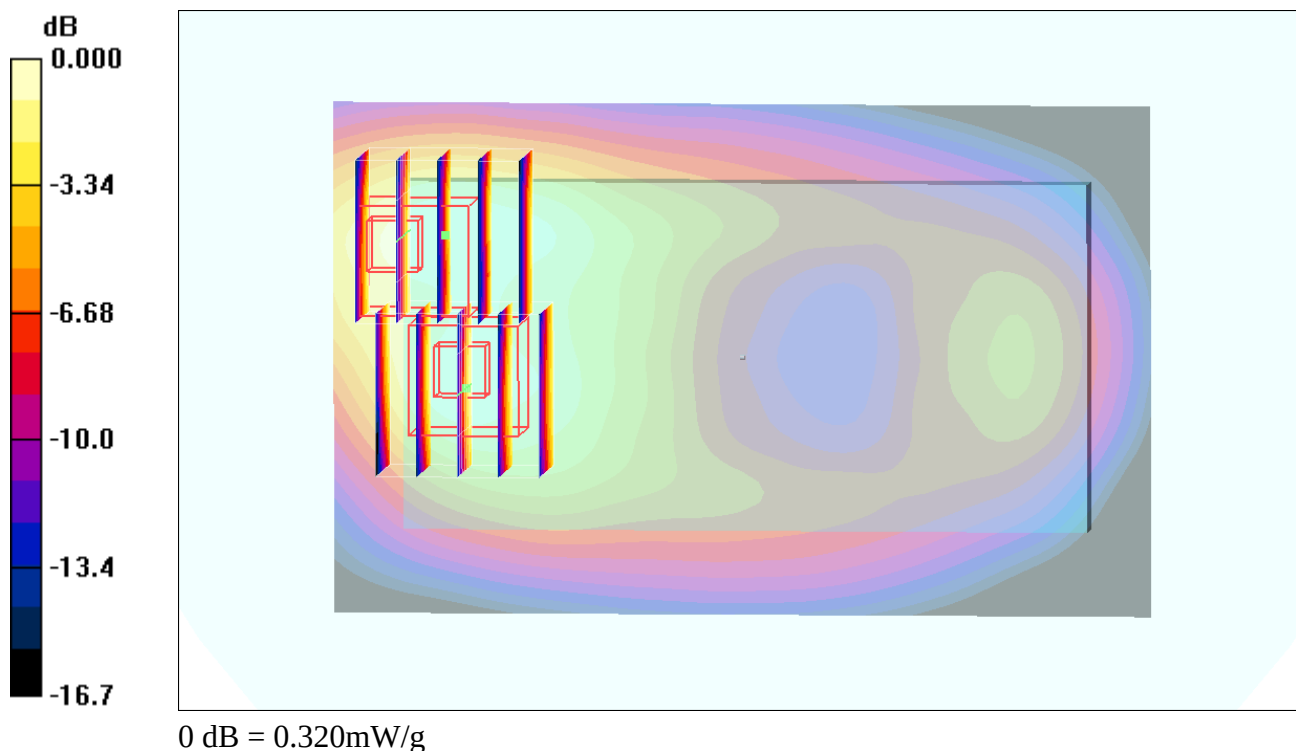
Ch810/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.53 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.292 mW/g; SAR(10 g) = 0.159 mW/g

Maximum value of SAR (measured) = 0.320 mW/g



#18_GSM1900_GPRS (4 Tx slots)_Back_1cm_Ch810**DUT: 292639**

Communication System: PCS; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium: MSL_1900_121002 Medium parameters used: $f = 1910$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch810/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

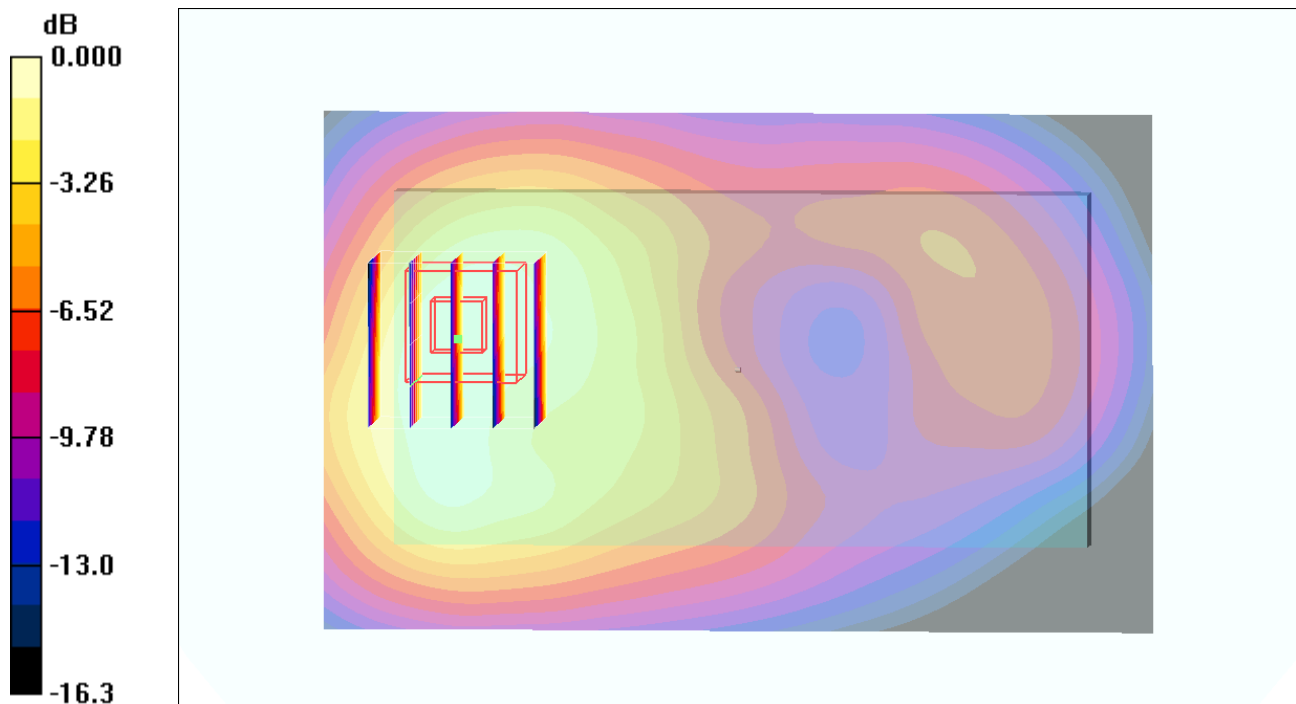
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.81 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.586 W/kg

SAR(1 g) = 0.356 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.388 mW/g



0 dB = 0.388mW/g

#23_GSM1900_GSM Voice_Front_1cm_Ch661;Headset**DUT: 292639**

Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: MSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch661/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.188 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.06 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 0.296 W/kg

SAR(1 g) = 0.182 mW/g; SAR(10 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.198 mW/g

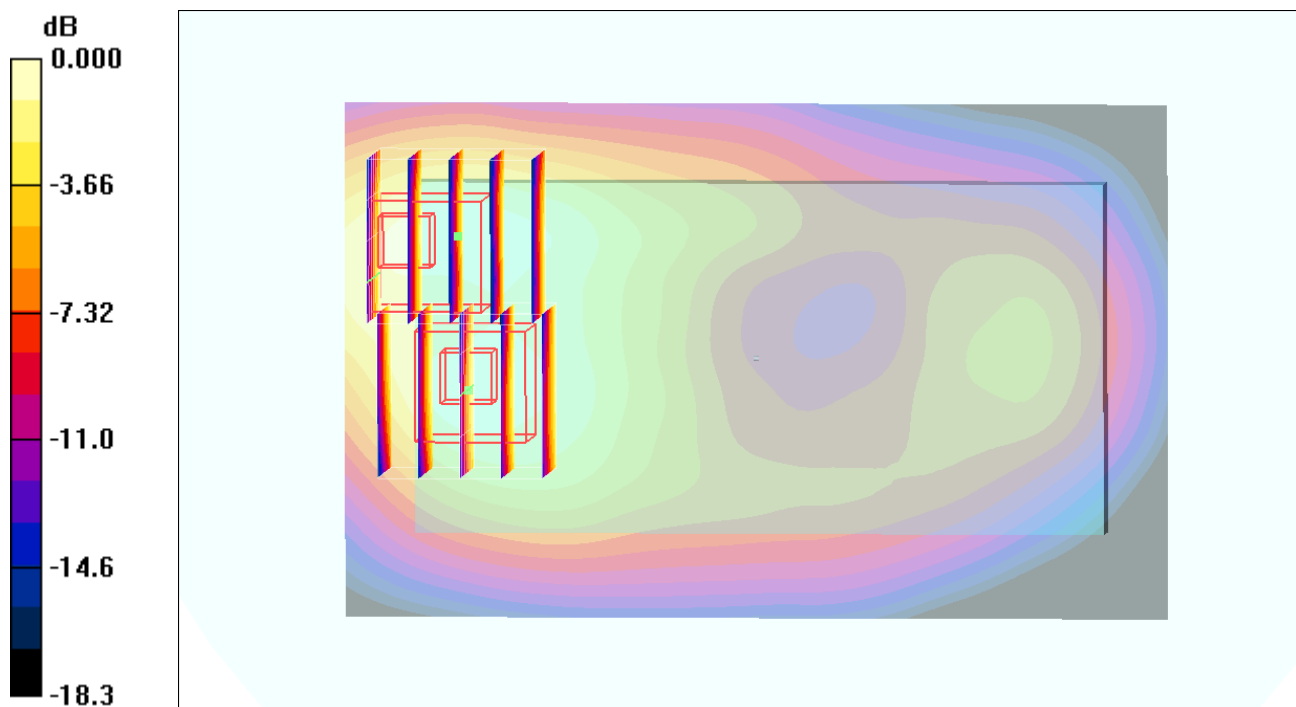
Ch661/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.06 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 0.302 W/kg

SAR(1 g) = 0.173 mW/g; SAR(10 g) = 0.092 mW/g

Maximum value of SAR (measured) = 0.190 mW/g



0 dB = 0.190mW/g

#24_GSM1900_GSM Voice_Back_1cm_Ch661;Headset**DUT: 292639**

Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: MSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch661/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

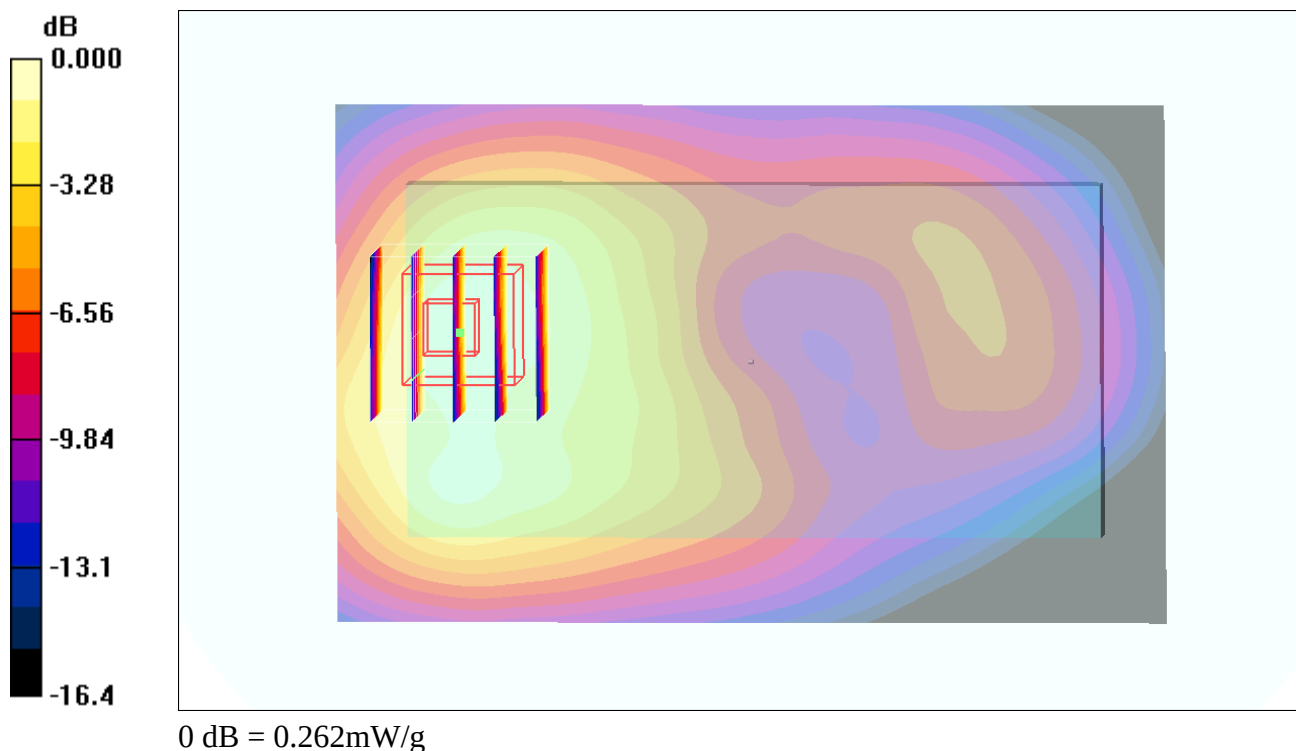
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.03 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.394 W/kg

SAR(1 g) = 0.240 mW/g; SAR(10 g) = 0.145 mW/g

Maximum value of SAR (measured) = 0.262 mW/g



#42_WCDMA V_RMC12.2K_Front_1cm_Ch4132**DUT: 292639**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: MSL_850_121003 Medium parameters used : $f = 826.4$ MHz; $\sigma = 0.955$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.492 mW/g

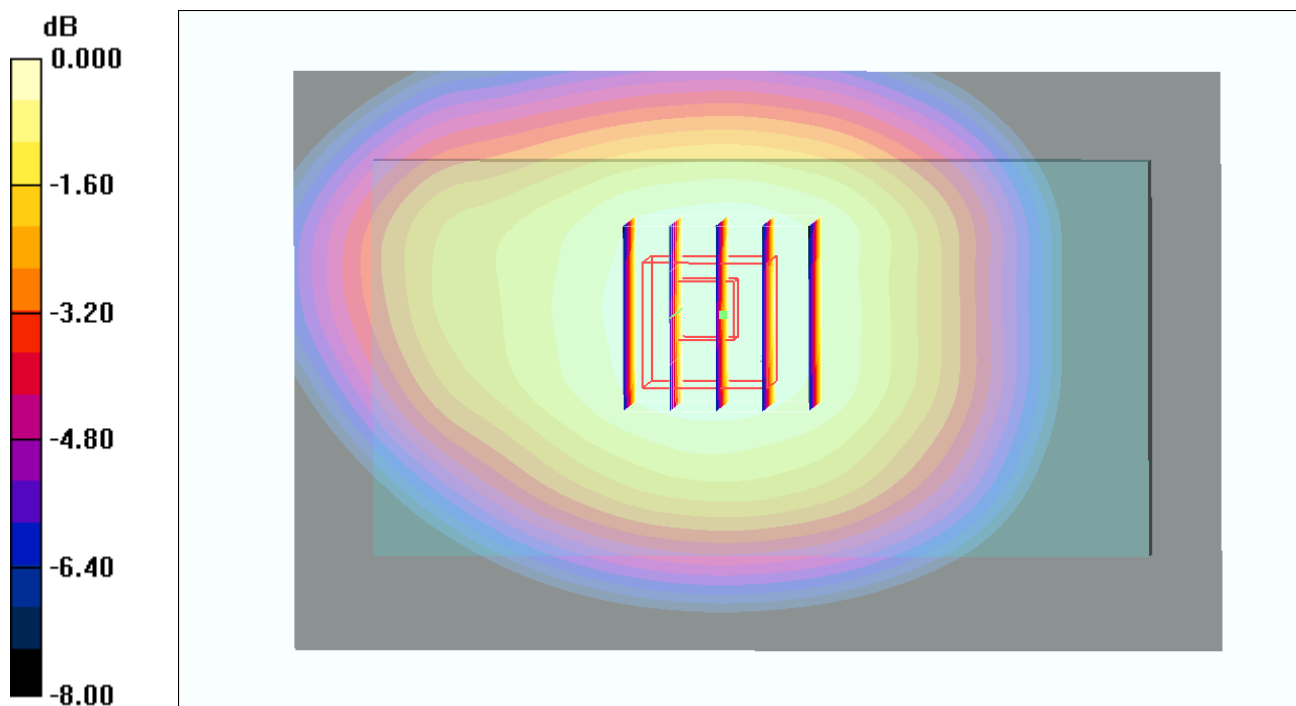
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.7 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 0.574 W/kg

SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.371 mW/g

Maximum value of SAR (measured) = 0.496 mW/g



0 dB = 0.496mW/g

#43_WCDMA V_RMC12.2K_Back_1cm_Ch4132**DUT: 292639**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: MSL_850_121003 Medium parameters used : $f = 826.4$ MHz; $\sigma = 0.955$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.703 mW/g

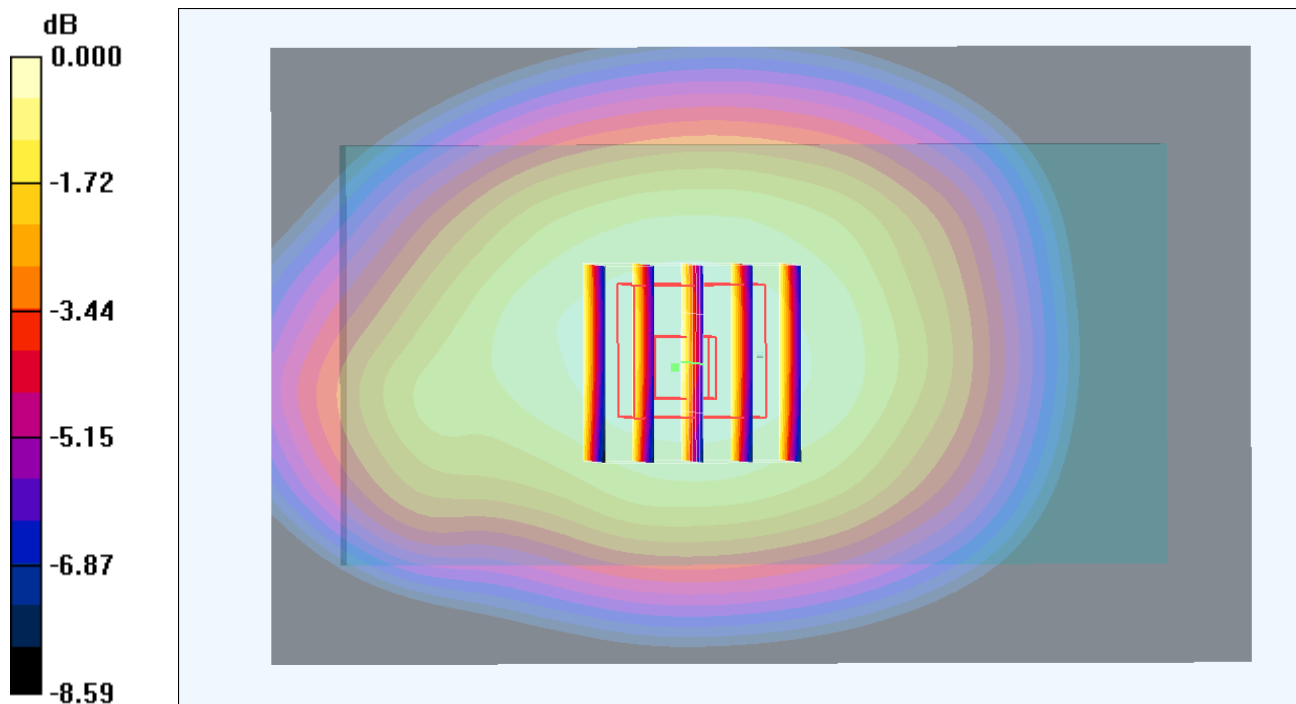
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.9 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.673 mW/g; SAR(10 g) = 0.515 mW/g

Maximum value of SAR (measured) = 0.709 mW/g



0 dB = 0.709mW/g

#43_WCDMA V_RMC12.2K_Back_1cm_Ch4132_2D**DUT: 292639**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: MSL_850_121003 Medium parameters used : $f = 826.4$ MHz; $\sigma = 0.955$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.703 mW/g

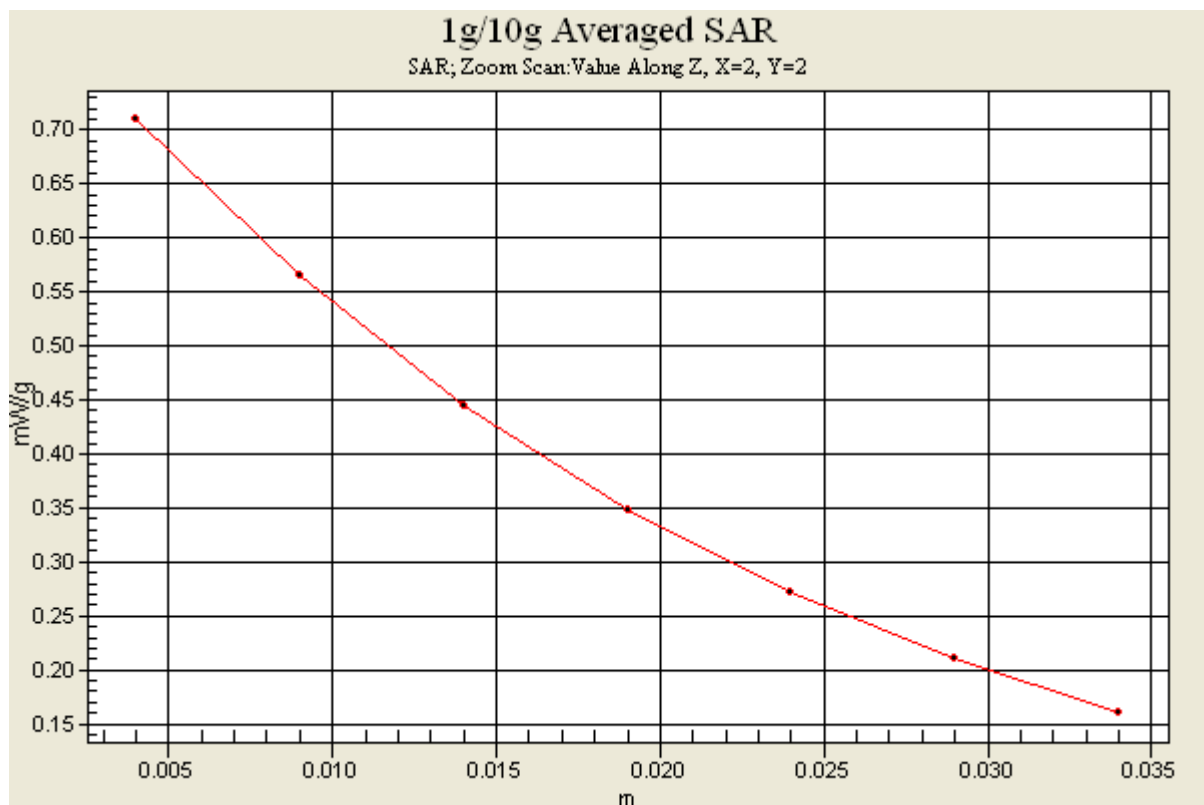
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.9 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.673 mW/g; SAR(10 g) = 0.515 mW/g

Maximum value of SAR (measured) = 0.709 mW/g



#44_WCDMA V_RMC12.2K_Left Side_1cm_Ch4132**DUT: 292639**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: MSL_850_121003 Medium parameters used : $f = 826.4$ MHz; $\sigma = 0.955$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.551 mW/g

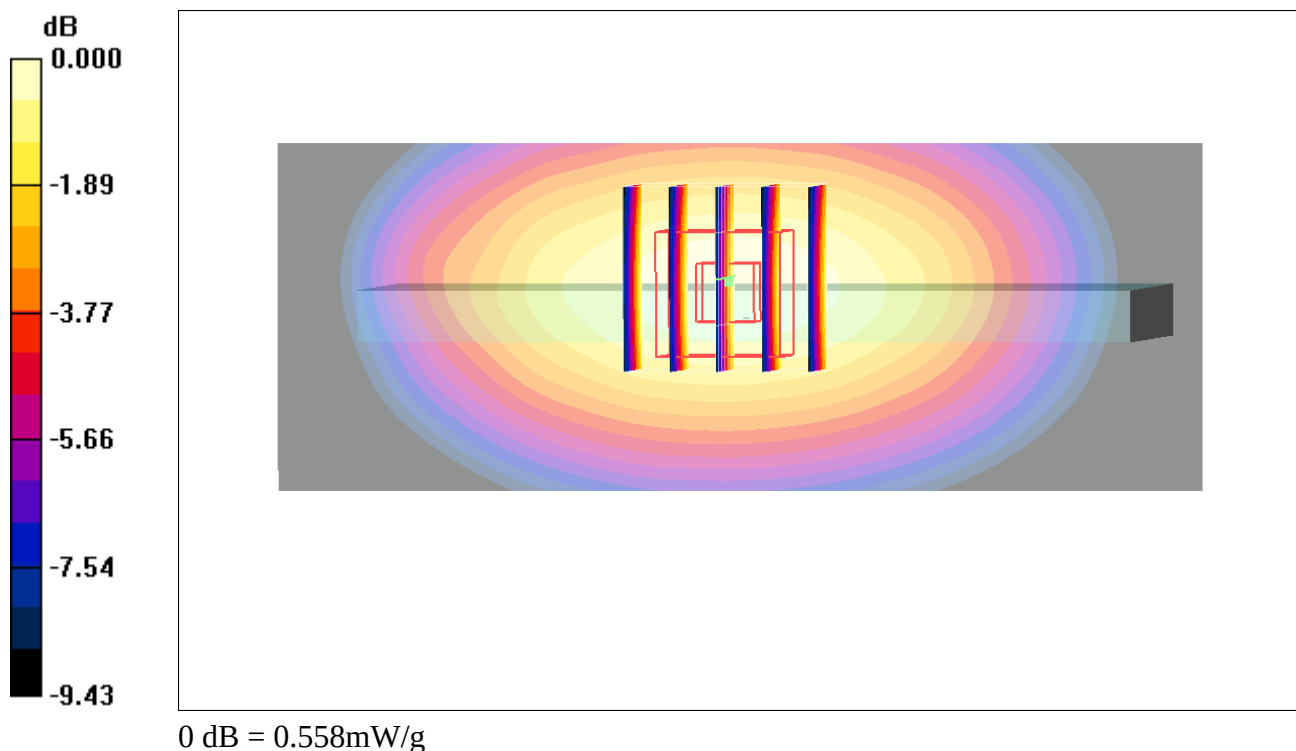
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.2 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 0.722 W/kg

SAR(1 g) = 0.525 mW/g; SAR(10 g) = 0.364 mW/g

Maximum value of SAR (measured) = 0.558 mW/g



#47_WCDMA V_RMC12.2K_Bottom Side_1cm_Ch4132**DUT: 292639**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: MSL_850_121003 Medium parameters used : $f = 826.4$ MHz; $\sigma = 0.955$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (31x51x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.211 mW/g

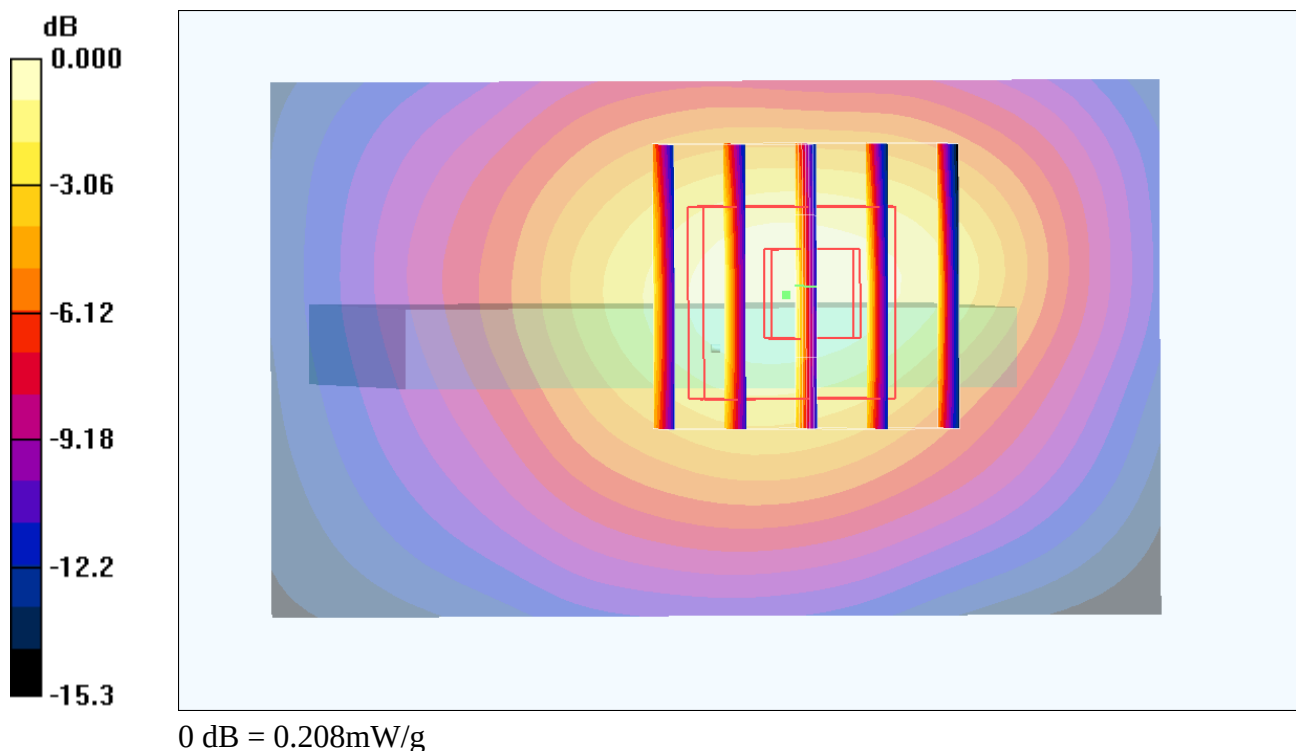
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 0.340 W/kg

SAR(1 g) = 0.189 mW/g; SAR(10 g) = 0.107 mW/g

Maximum value of SAR (measured) = 0.208 mW/g



#42_WCDMA V_RMC12.2K_Front_1cm_Ch4132**DUT: 292639**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: MSL_850_121003 Medium parameters used : $f = 826.4$ MHz; $\sigma = 0.955$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.492 mW/g

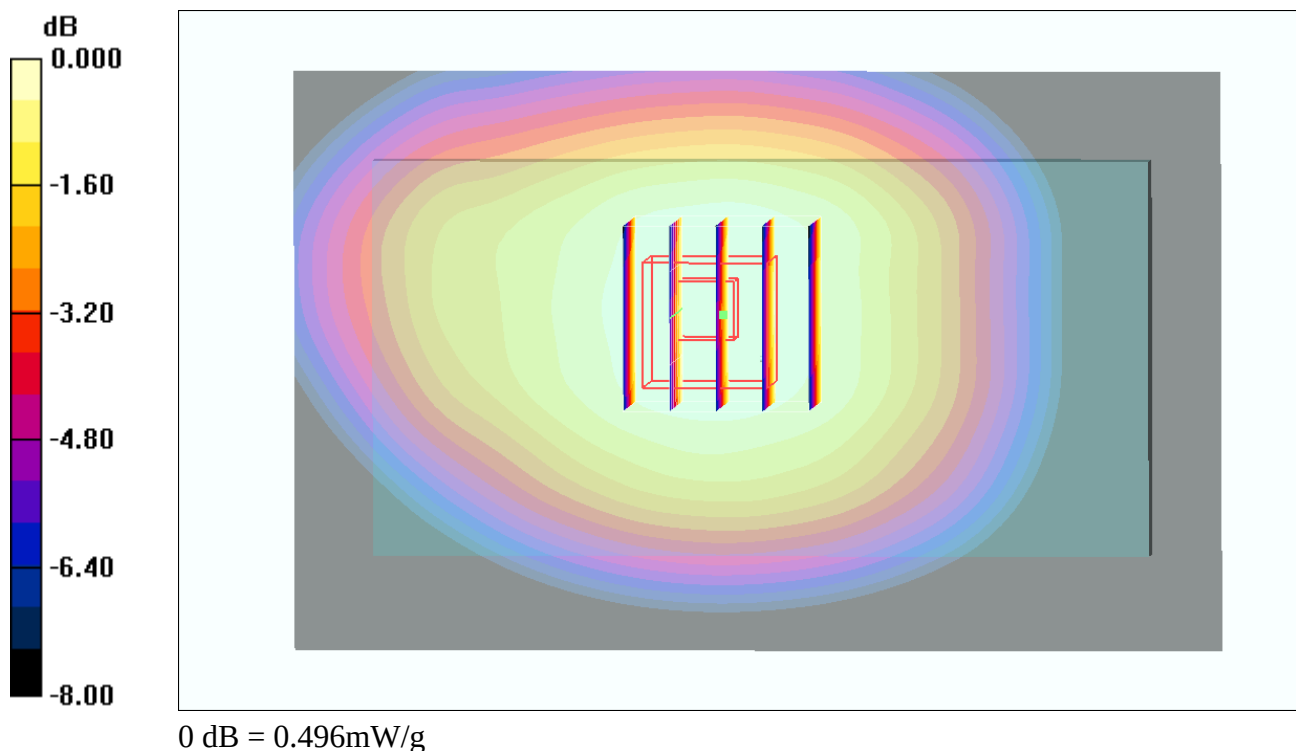
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.7 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 0.574 W/kg

SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.371 mW/g

Maximum value of SAR (measured) = 0.496 mW/g



#43_WCDMA V_RMC12.2K_Back_1cm_Ch4132**DUT: 292639**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: MSL_850_121003 Medium parameters used : $f = 826.4$ MHz; $\sigma = 0.955$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.703 mW/g

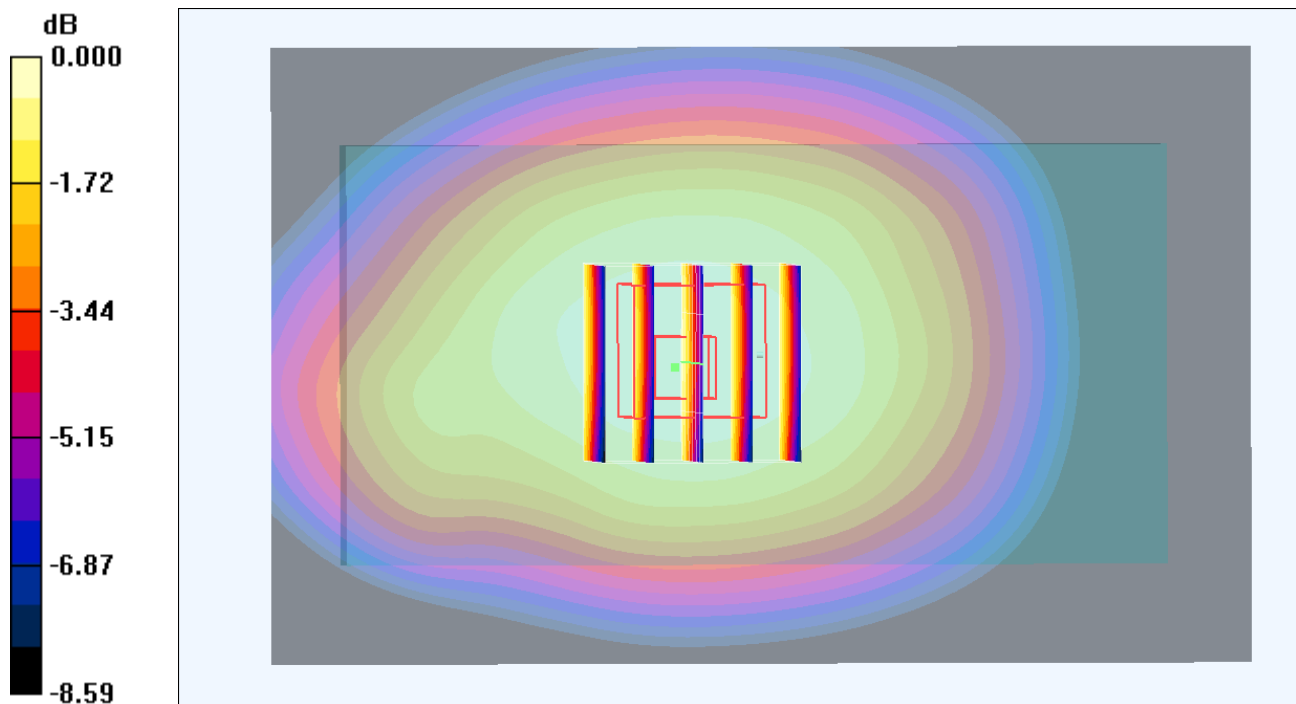
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.9 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.673 mW/g; SAR(10 g) = 0.515 mW/g

Maximum value of SAR (measured) = 0.709 mW/g



0 dB = 0.709mW/g

#48_WCDMA V_RMC12.2K_Back_1cm_Ch4132;Headset**DUT: 292639**

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: MSL_850_121003 Medium parameters used : $f = 826.4$ MHz; $\sigma = 0.955$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.5 °C ; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(6.2, 6.2, 6.2); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch4132/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.560 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.6 V/m; Power Drift = 0.119 dB

Peak SAR (extrapolated) = 0.650 W/kg

SAR(1 g) = 0.531 mW/g; SAR(10 g) = 0.409 mW/g

Maximum value of SAR (measured) = 0.554 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.6 V/m; Power Drift = 0.119 dB

Peak SAR (extrapolated) = 0.712 W/kg

SAR(1 g) = 0.478 mW/g; SAR(10 g) = 0.337 mW/g

Maximum value of SAR (measured) = 0.520 mW/g



#25_WCDMA II_RMC12.2K_Front_1cm_Ch9400**DUT: 292639**

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

Medium: MSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.08 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.653 W/kg

SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.201 mW/g

Maximum value of SAR (measured) = 0.410 mW/g

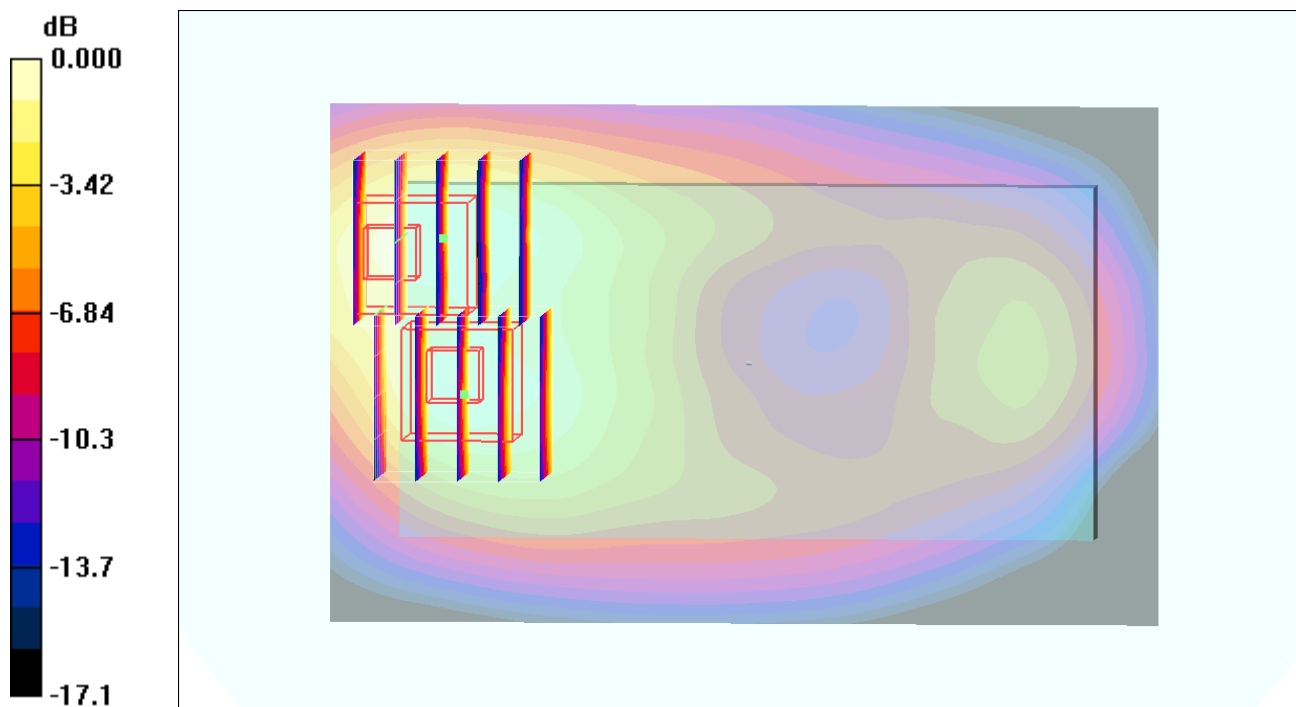
Ch9400/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.08 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.589 W/kg

SAR(1 g) = 0.360 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.393 mW/g



0 dB = 0.393mW/g

#26_WCDMA II_RMC12.2K_Back_1cm_Ch9400**DUT: 292639**

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

Medium: MSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

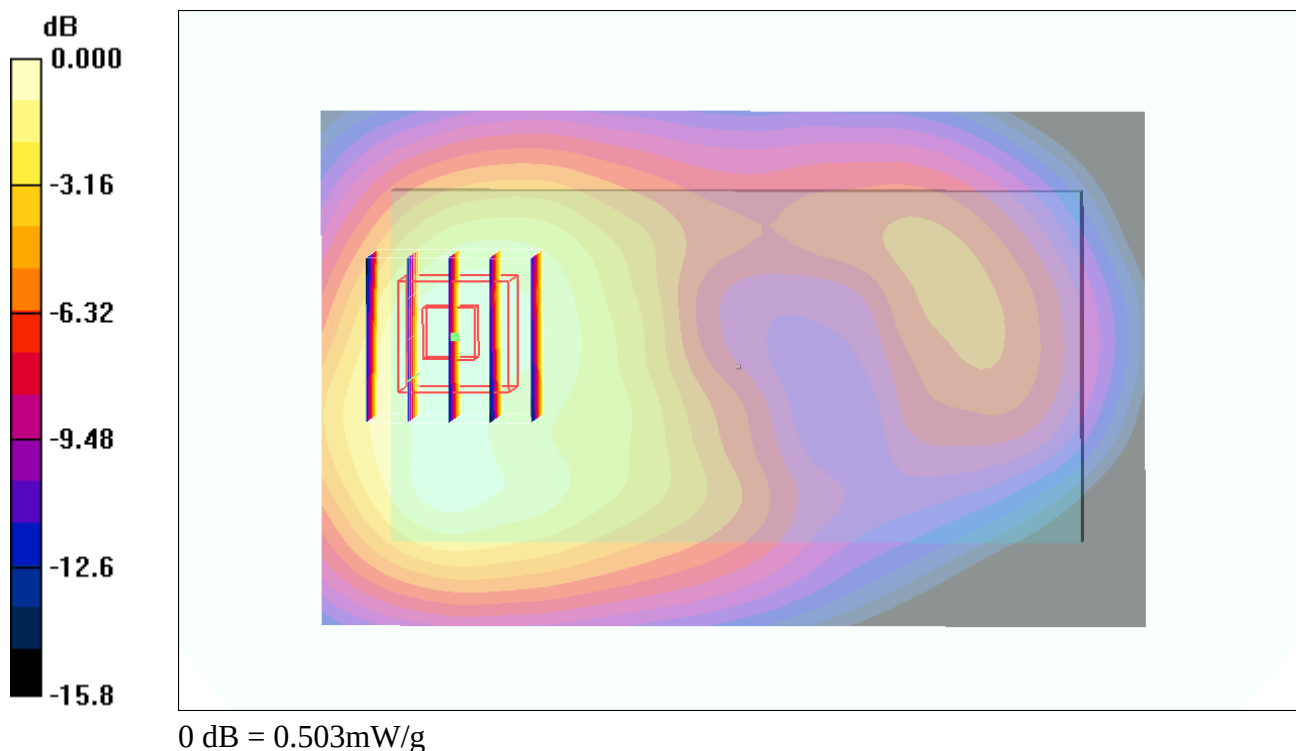
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.09 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.752 W/kg

SAR(1 g) = 0.465 mW/g; SAR(10 g) = 0.284 mW/g

Maximum value of SAR (measured) = 0.503 mW/g



#27_WCDMA II_RMC12.2K_Left Side_1cm_Ch9400**DUT: 292639**

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

Medium: MSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm

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

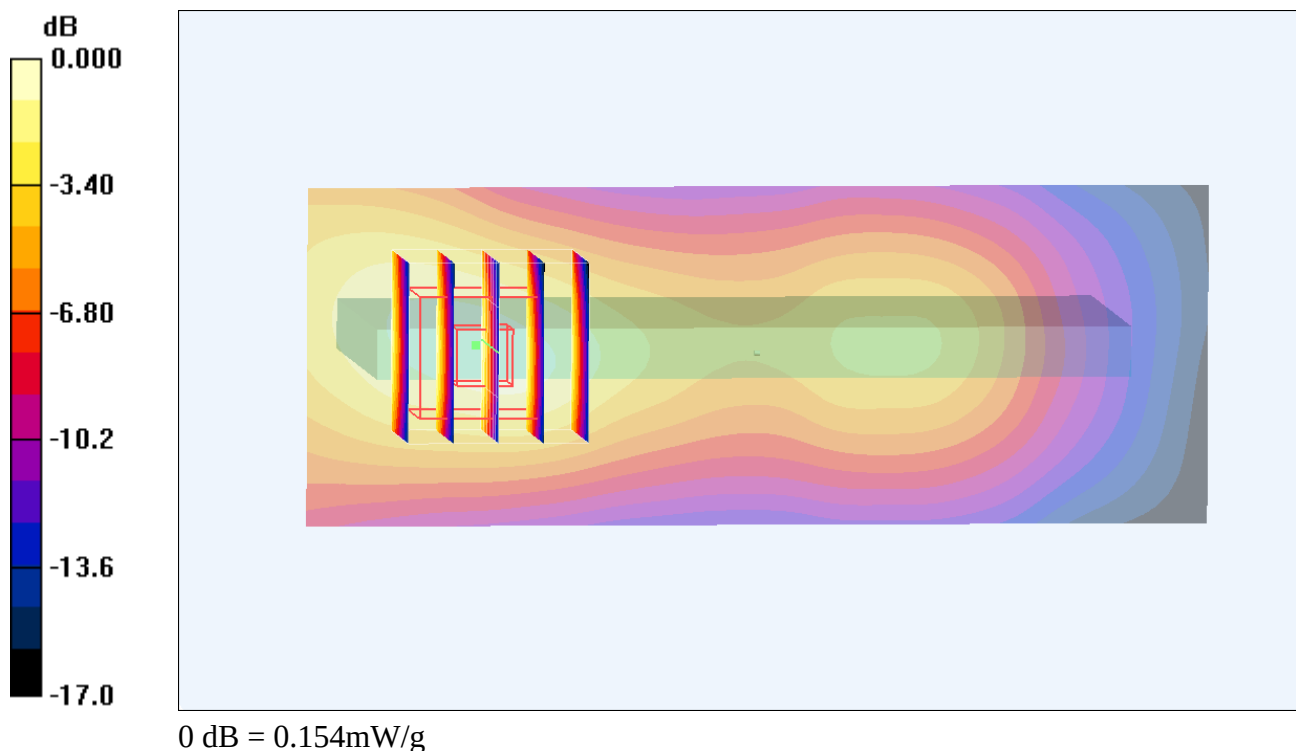
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.44 V/m; Power Drift = -0.097 dB

Peak SAR (extrapolated) = 0.246 W/kg

SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.082 mW/g

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



#30_WCDMA II_RMC12.2K_Bottom Side_1cm_Ch9400**DUT: 292639**

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

Medium: MSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (31x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.641 mW/g

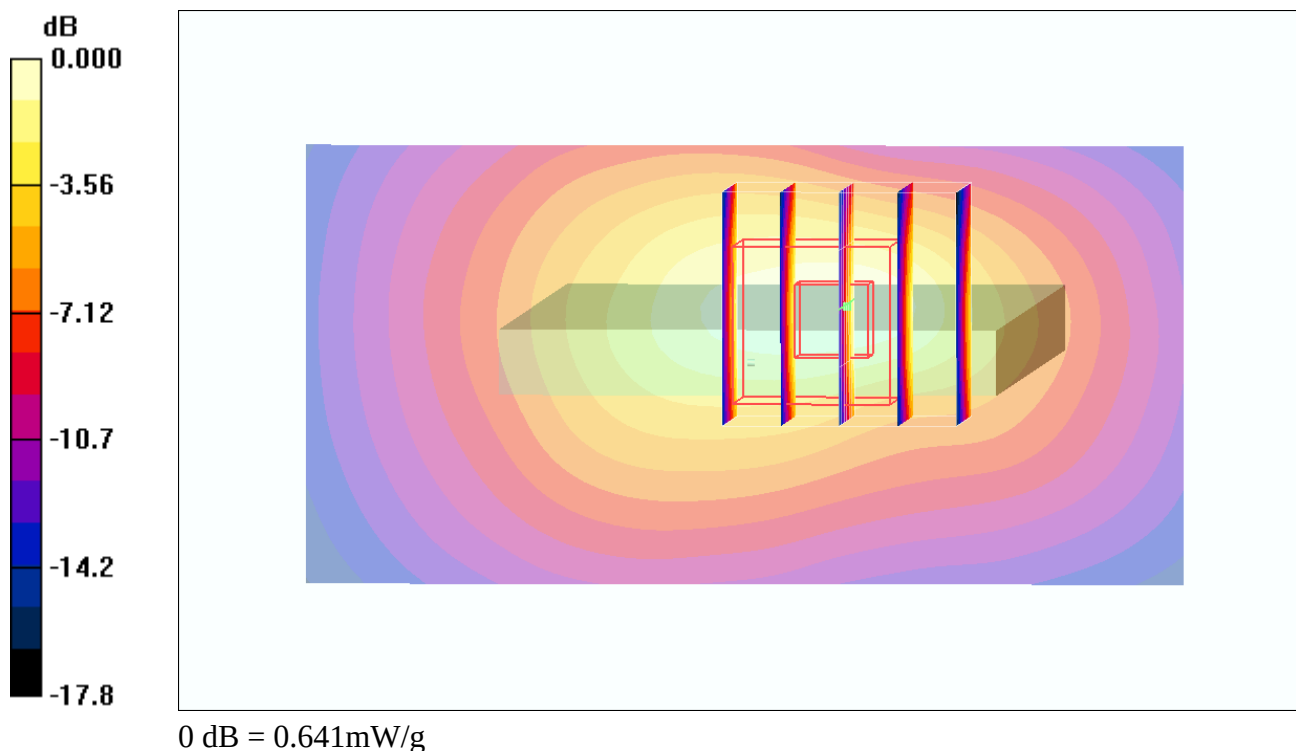
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.1 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.596 mW/g; SAR(10 g) = 0.320 mW/g

Maximum value of SAR (measured) = 0.641 mW/g



#30_WCDMA II_RMC12.2K_Bottom Side_1cm_Ch9400_2D**DUT: 292639**

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

Medium: MSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (31x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.641 mW/g

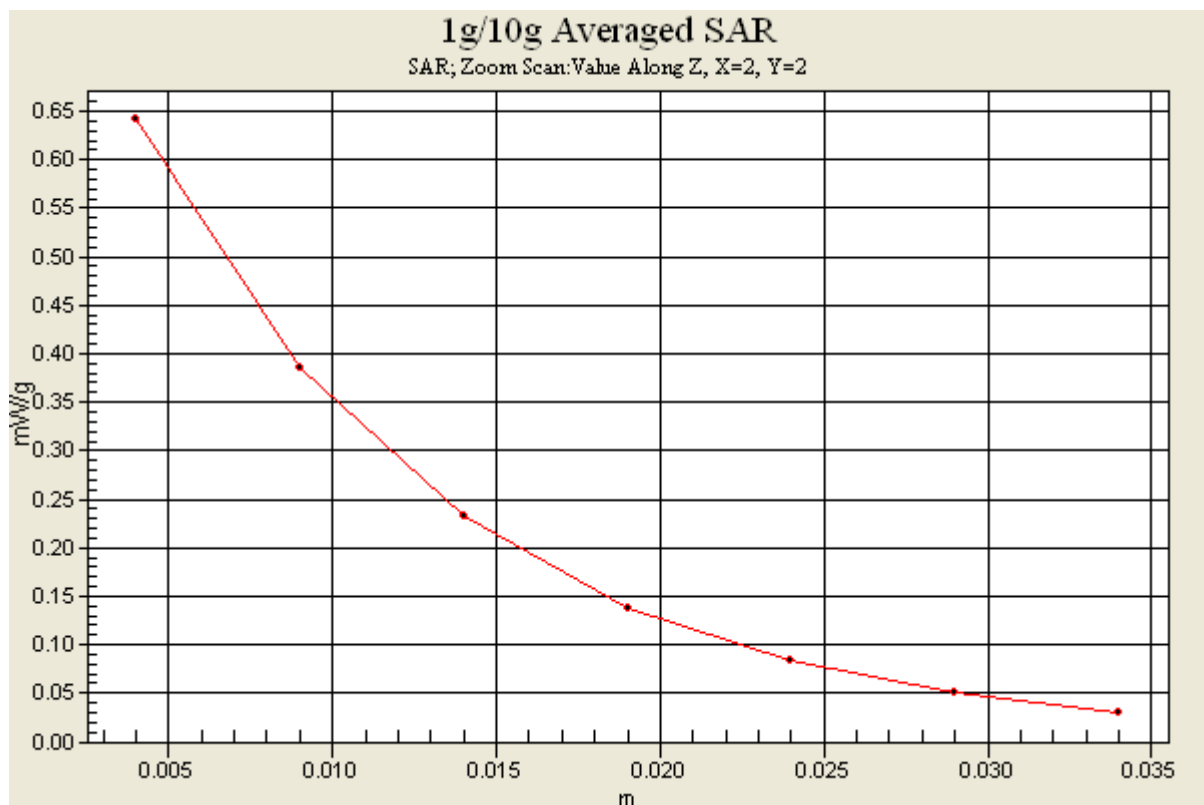
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.1 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.596 mW/g; SAR(10 g) = 0.320 mW/g

Maximum value of SAR (measured) = 0.641 mW/g



#25_WCDMA II_RMC12.2K_Front_1cm_Ch9400**DUT: 292639**

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

Medium: MSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.08 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.653 W/kg

SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.201 mW/g

Maximum value of SAR (measured) = 0.410 mW/g

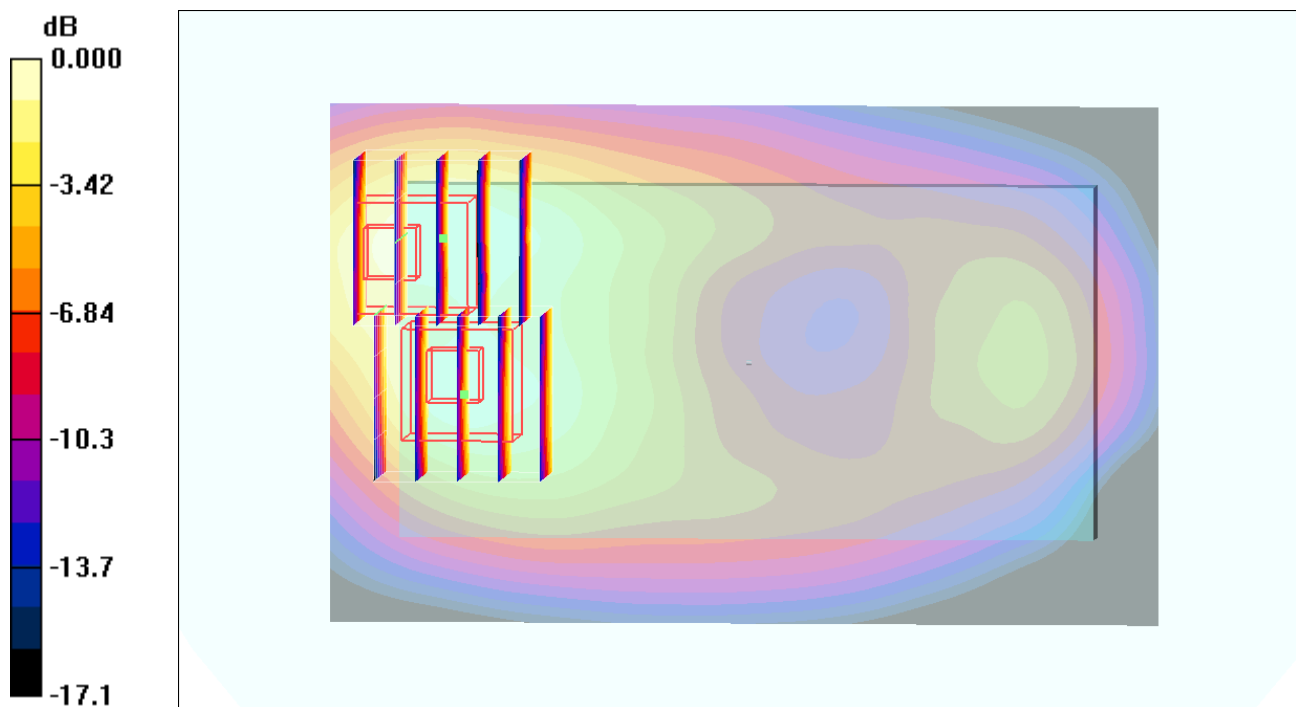
Ch9400/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.08 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.589 W/kg

SAR(1 g) = 0.360 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.393 mW/g



0 dB = 0.393mW/g

#26_WCDMA II_RMC12.2K_Back_1cm_Ch9400**DUT: 292639**

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

Medium: MSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

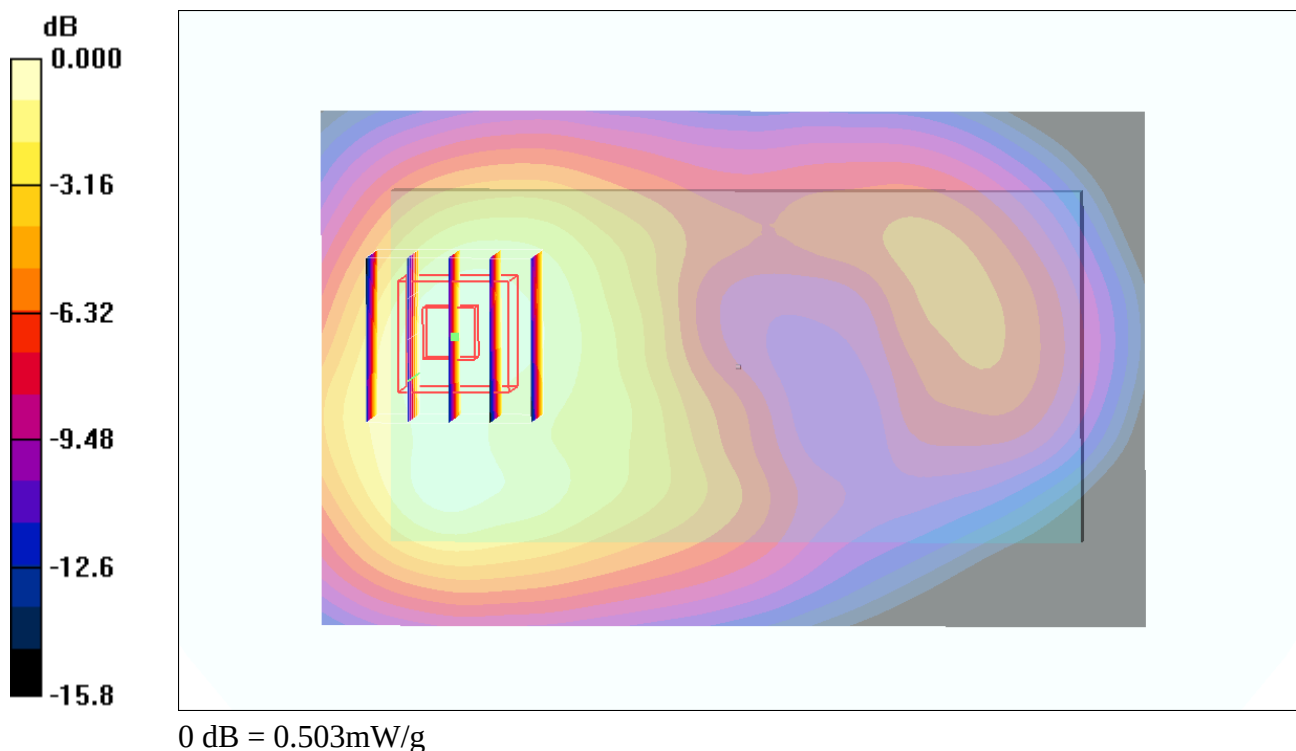
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.09 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.752 W/kg

SAR(1 g) = 0.465 mW/g; SAR(10 g) = 0.284 mW/g

Maximum value of SAR (measured) = 0.503 mW/g



#31_WCDMA II_RMC12.2K_Back_1cm_Ch9400;Headset**DUT: 292639**

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

Medium: MSL_1900_121002 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.96, 4.96, 4.96); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch9400/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

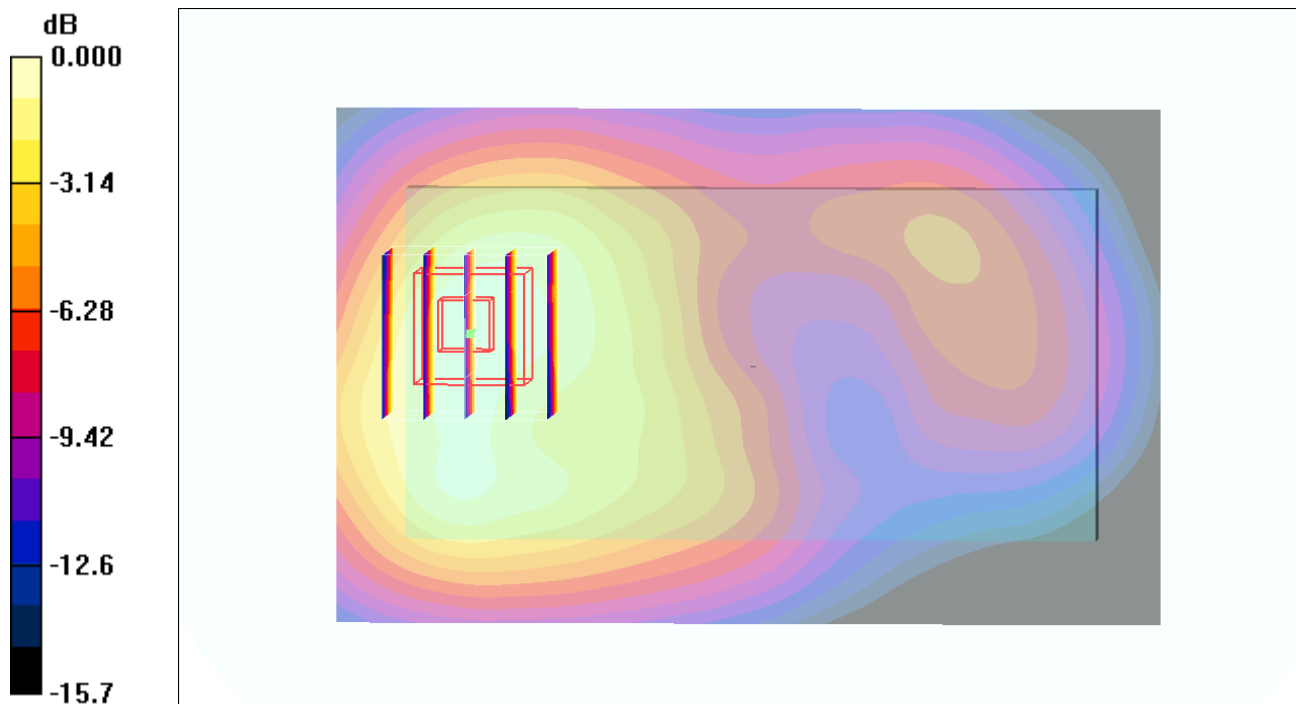
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.61 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.769 W/kg

SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.289 mW/g

Maximum value of SAR (measured) = 0.512 mW/g



0 dB = 0.512mW/g

#53_WLAN2.4G_802.11b_Front_1cm_Ch1**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: MSL_2450_121003 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.28, 4.28, 4.28); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.87 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.235 W/kg

SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.069 mW/g

Maximum value of SAR (measured) = 0.132 mW/g

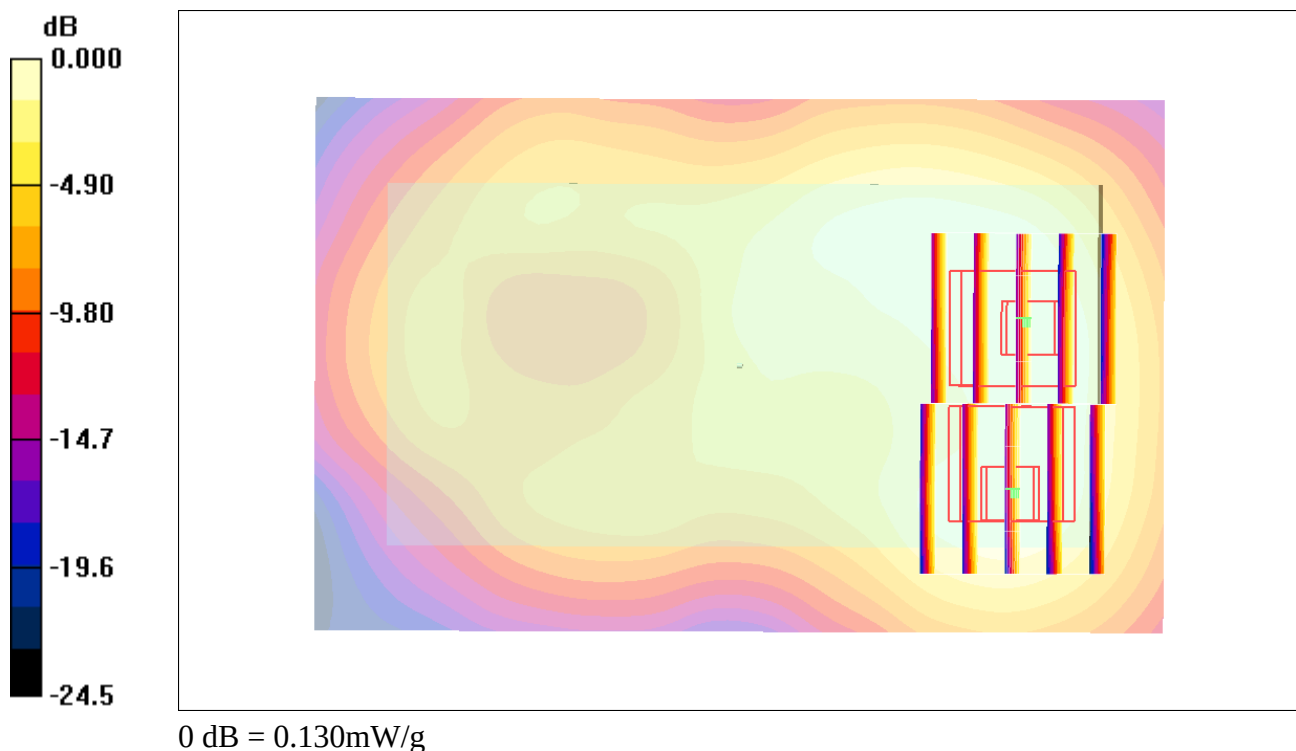
Ch1/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.87 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.246 W/kg

SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.130 mW/g



#54_WLAN2.4G_802.11b_Back_1cm_Ch1**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: MSL_2450_121003 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.28, 4.28, 4.28); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.152 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.10 V/m; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 0.261 W/kg

SAR(1 g) = 0.136 mW/g; SAR(10 g) = 0.075 mW/g

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

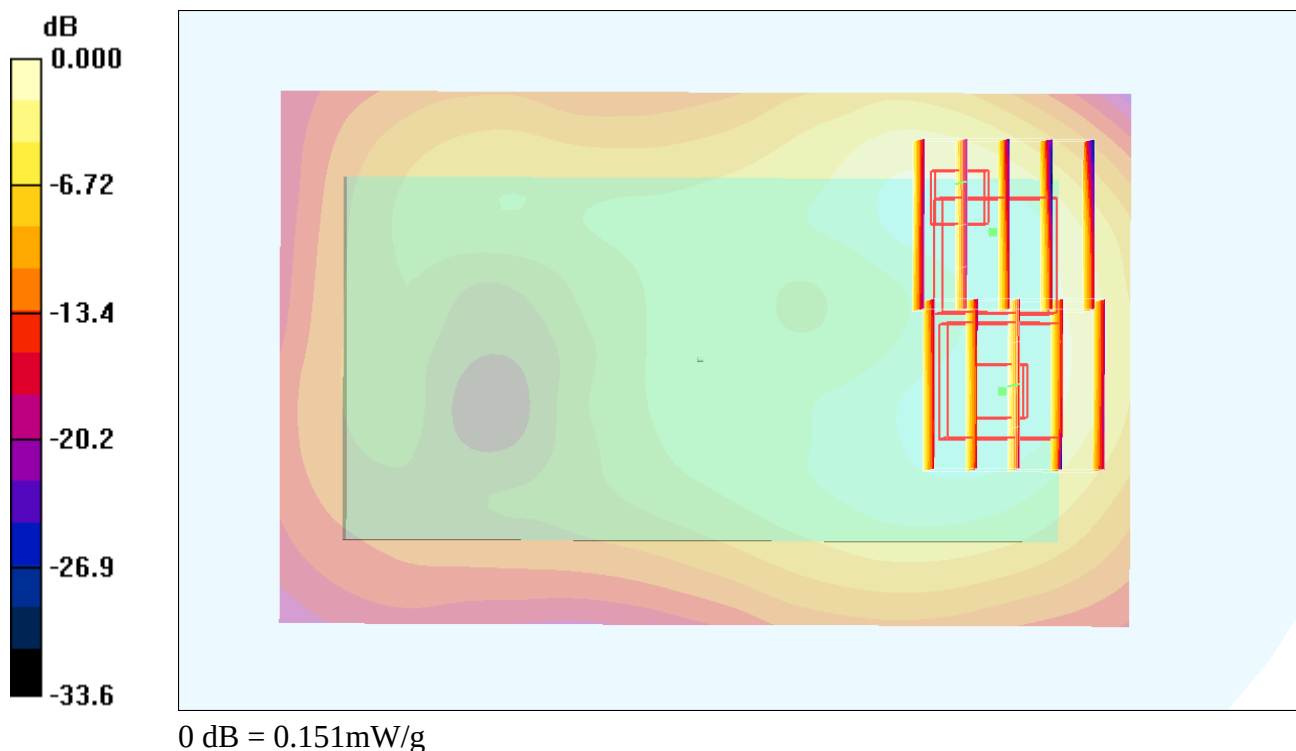
Ch1/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.10 V/m; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.151 mW/g



#56_WLAN2.4G_802.11b_Right Side_1cm_Ch1**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium: MSL_2450_121003 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.28, 4.28, 4.28); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (31x81x1): Measurement grid: dx=20mm, dy=20mm

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

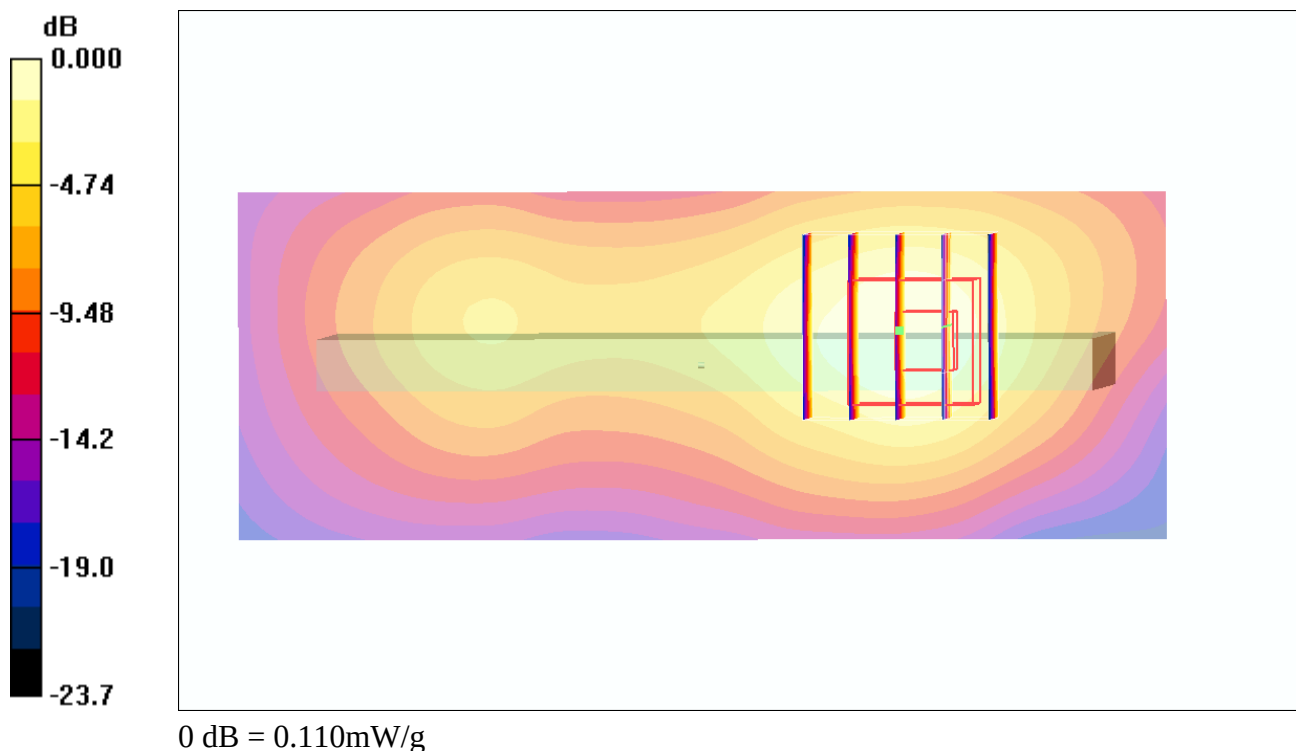
Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.51 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 0.221 W/kg

SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.053 mW/g

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



#57_WLAN2.4G_802.11b_Top Side_1cm_Ch1**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium: MSL_2450_121003 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.28, 4.28, 4.28); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (31x51x1): Measurement grid: dx=20mm, dy=20mm

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

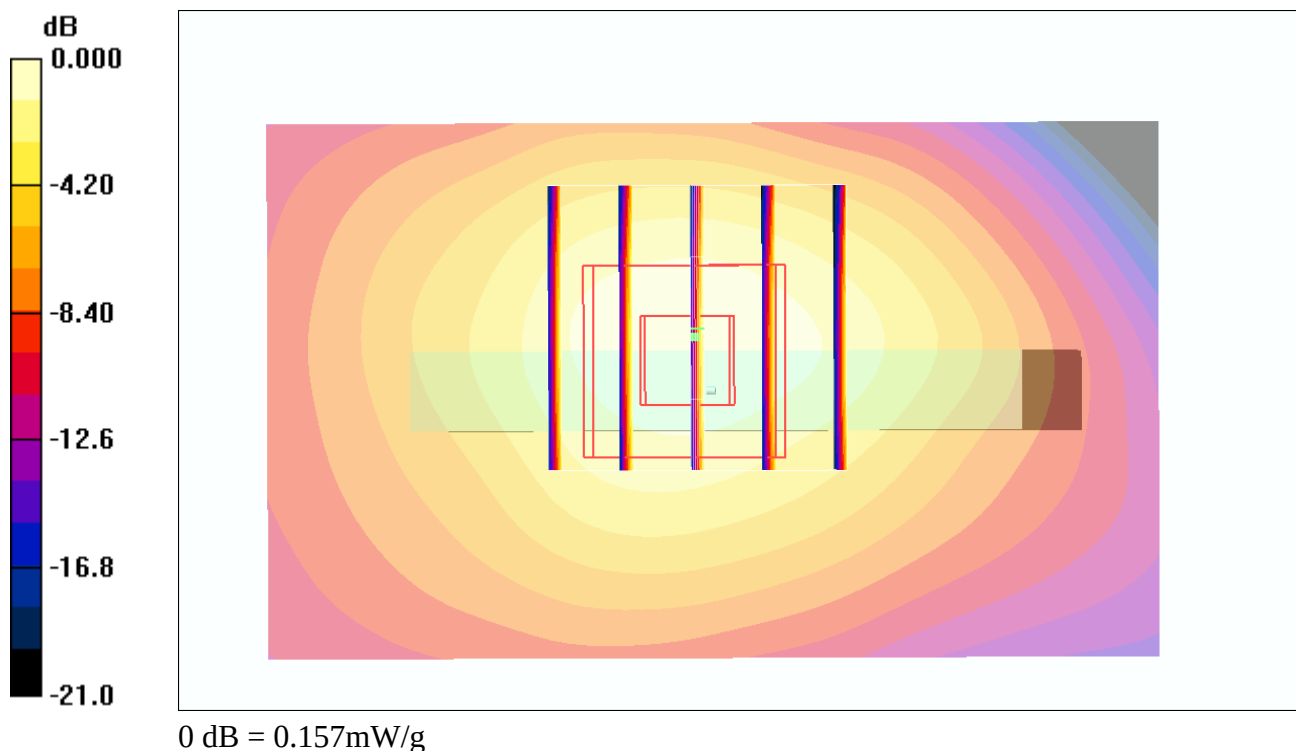
Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.04 V/m; Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.293 W/kg

SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.079 mW/g

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



#57_WLAN2.4G_802.11b_Top Side_1cm_Ch1_2D**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium: MSL_2450_121003 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.28, 4.28, 4.28); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (31x51x1): Measurement grid: dx=20mm, dy=20mm

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

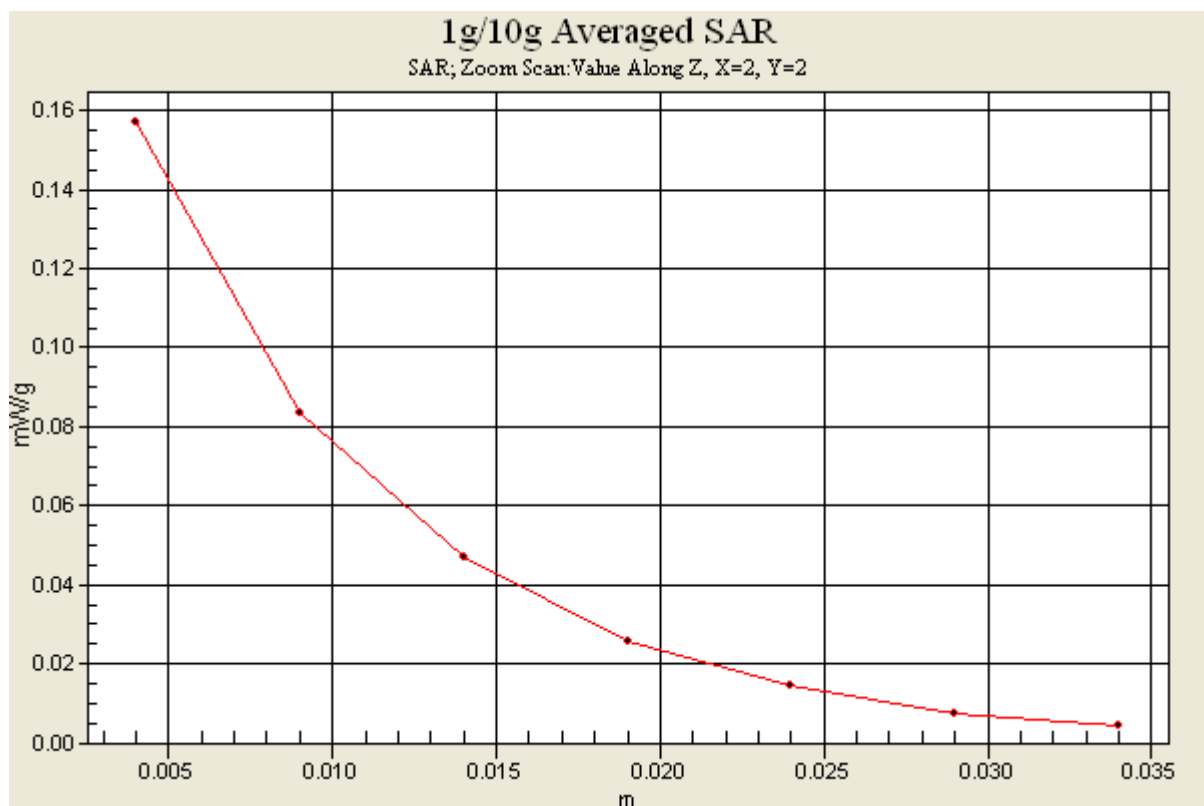
Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.04 V/m; Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.293 W/kg

SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.079 mW/g

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



#53_WLAN2.4G_802.11b_Front_1cm_Ch1**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium: MSL_2450_121003 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.28, 4.28, 4.28); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.87 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.235 W/kg

SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.069 mW/g

Maximum value of SAR (measured) = 0.132 mW/g

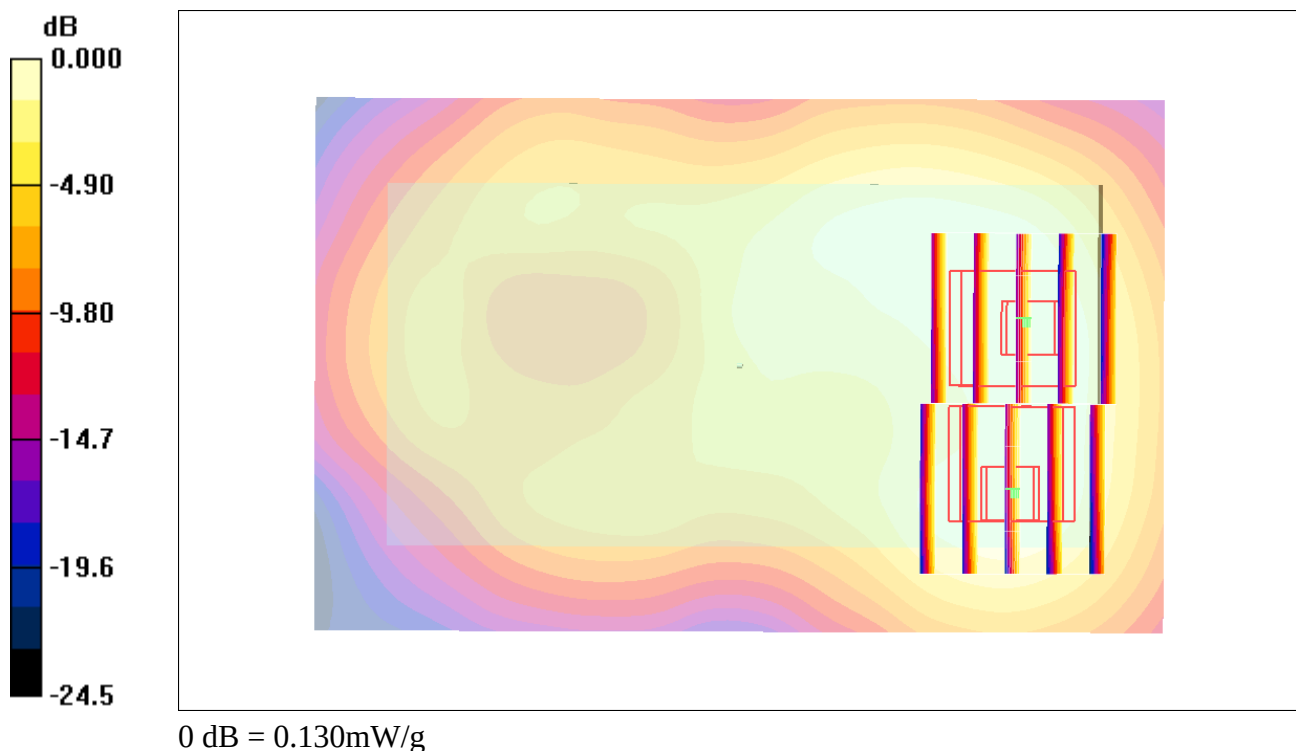
Ch1/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.87 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.246 W/kg

SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.130 mW/g



#54_WLAN2.4G_802.11b_Back_1cm_Ch1**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium: MSL_2450_121003 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.28, 4.28, 4.28); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.152 mW/g

Ch1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.10 V/m; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 0.261 W/kg

SAR(1 g) = 0.136 mW/g; SAR(10 g) = 0.075 mW/g

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

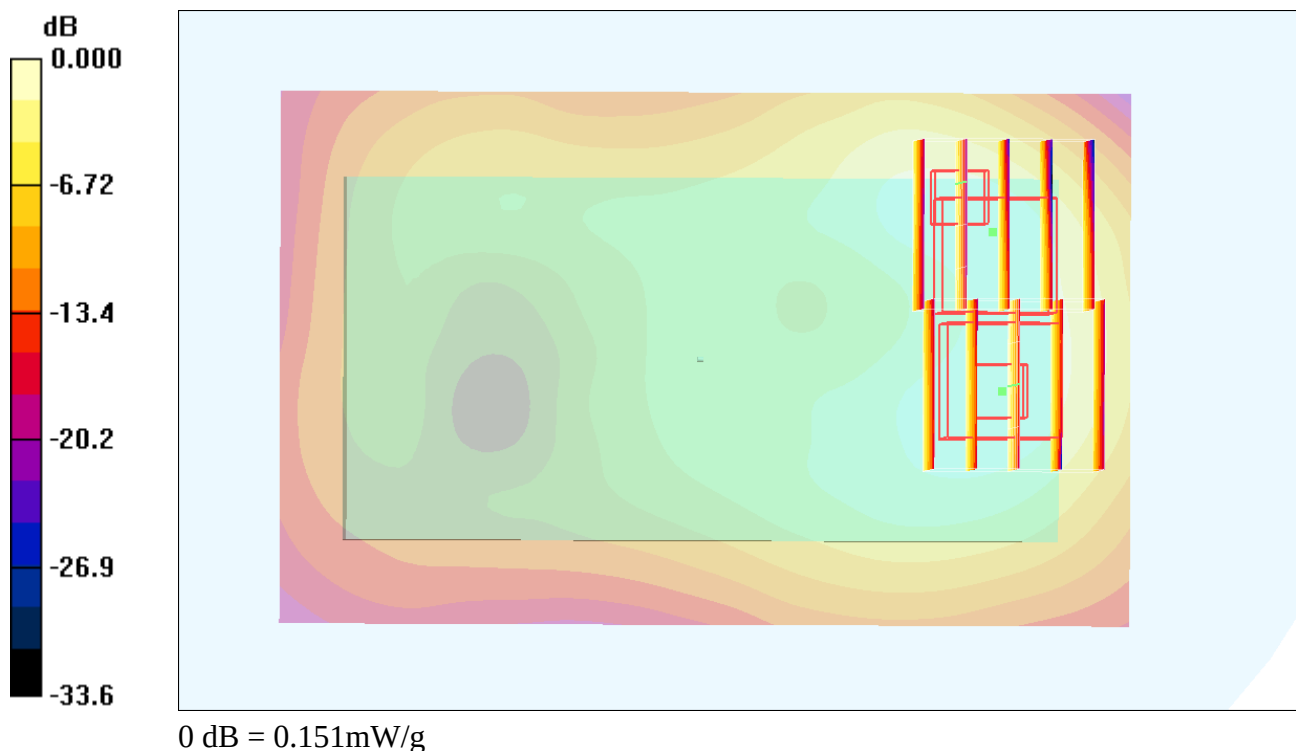
Ch1/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.10 V/m; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.151 mW/g



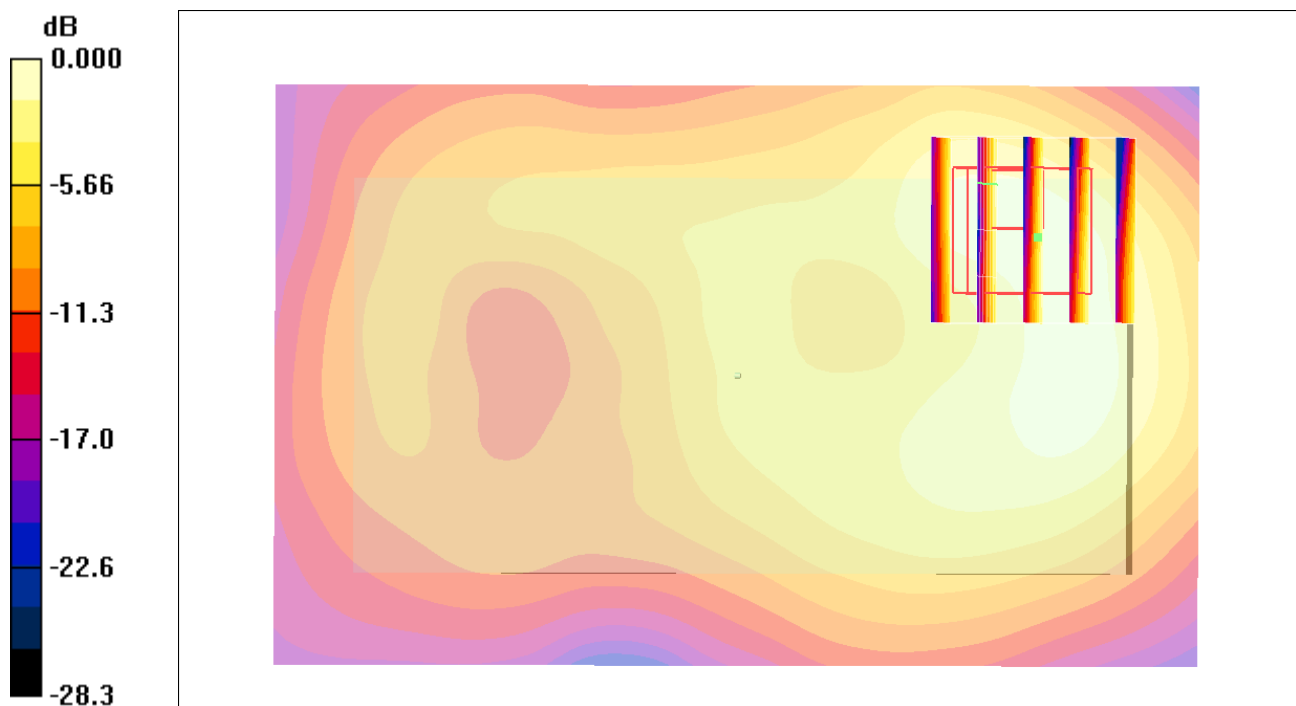
#59_WLAN2.4G_802.11b_Back_1cm_Ch1;Headset**DUT: 292639**

Communication System: 802.11b ; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium: MSL_2450_121003 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 53.2$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : 22.6°C ; Liquid Temperature : 21.6°C

DASY4 Configuration:

- Probe: ES3DV3 - SN3305; ConvF(4.28, 4.28, 4.28); Calibrated: 2012/9/12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2012/6/12
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch1/Area Scan (51x81x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$ Maximum value of SAR (interpolated) = 0.121 mW/g **Ch1/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 4.65 V/m ; Power Drift = 0.096 dB Peak SAR (extrapolated) = 0.288 W/kg **SAR(1 g) = 0.120 mW/g ; SAR(10 g) = 0.058 mW/g** Maximum value of SAR (measured) = 0.129 mW/g 0 dB = 0.129mW/g

#84_WLAN5G_802.11a_Front_1cm_Ch40**DUT: 292639**

Communication System: 802.11a; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.27$ mho/m; $\epsilon_r = 47.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.93, 3.93, 3.93); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch40/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

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

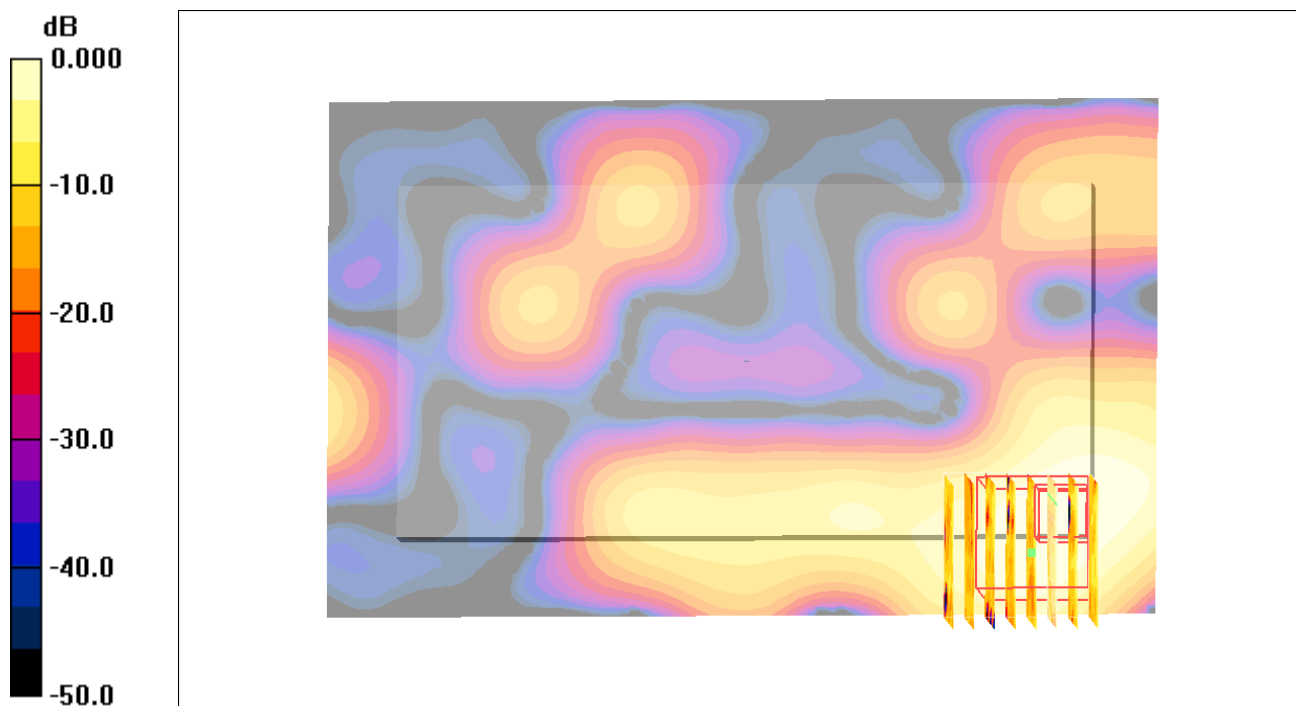
Ch40/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 0.715 V/m; Power Drift = 0.167 dB

Peak SAR (extrapolated) = 0.101 W/kg

SAR(1 g) = 0.031 mW/g; SAR(10 g) = 0.010 mW/g

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



0 dB = 0.071mW/g

#85_WLAN5G_802.11a_Back_1cm_Ch40**DUT: 292639**

Communication System: 802.11a; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.27$ mho/m; $\epsilon_r = 47.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.93, 3.93, 3.93); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch40/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

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

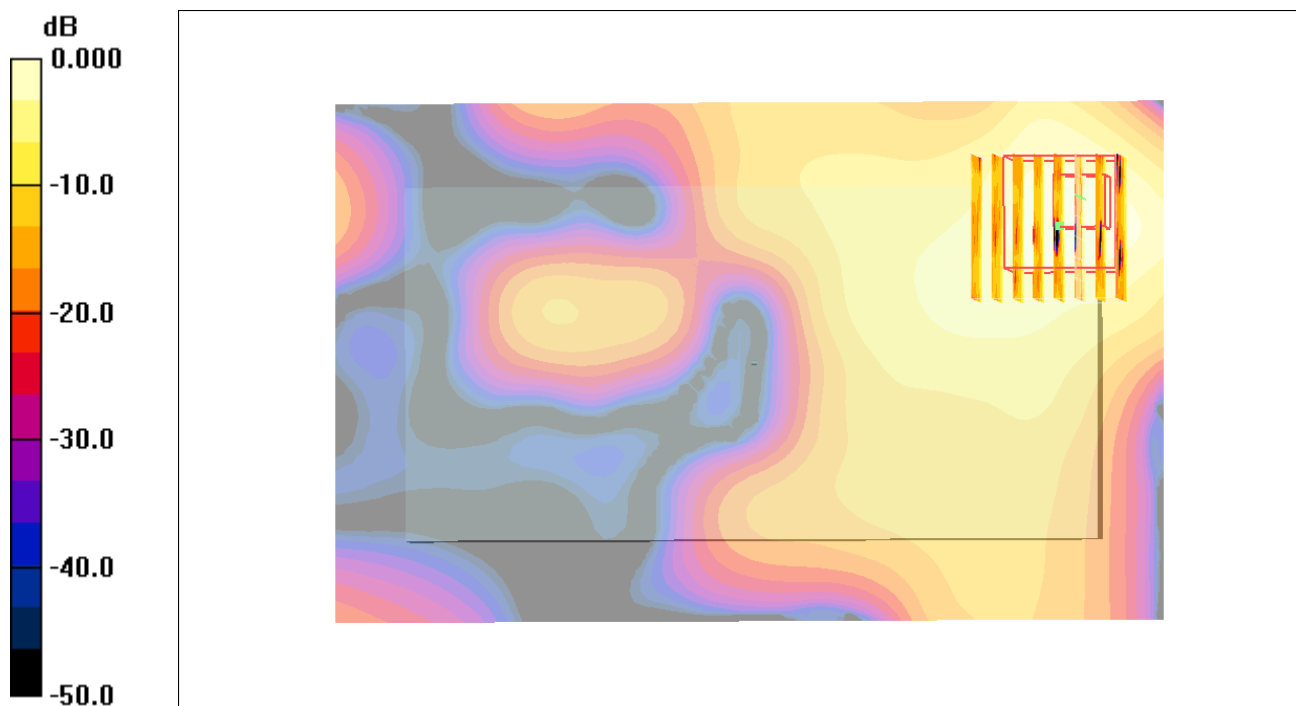
Ch40/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.78 V/m; Power Drift = -0.116 dB

Peak SAR (extrapolated) = 0.269 W/kg

SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.024 mW/g

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



#85_WLAN5G_802.11a_Back_1cm_Ch40_2D**DUT: 292639**

Communication System: 802.11a; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.27$ mho/m; $\epsilon_r = 47.6$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.93, 3.93, 3.93); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch40/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

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

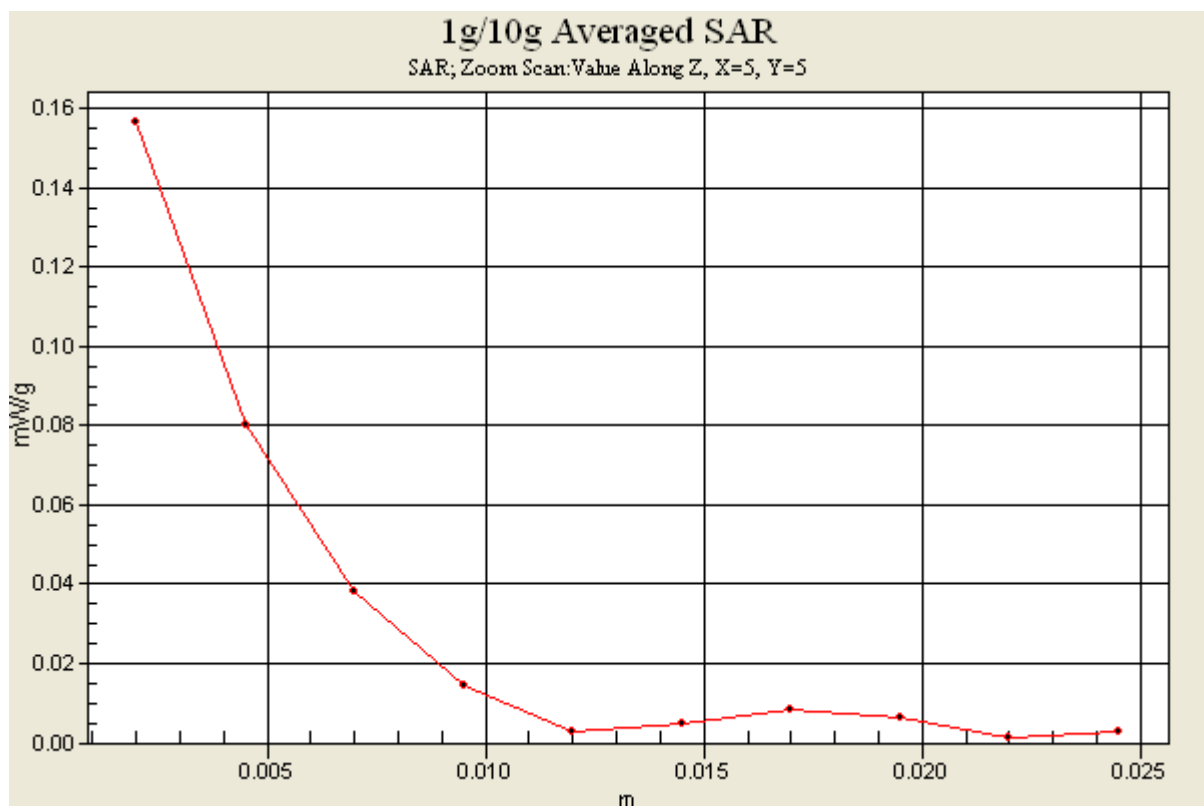
Ch40/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.78 V/m; Power Drift = -0.116 dB

Peak SAR (extrapolated) = 0.269 W/kg

SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.024 mW/g

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



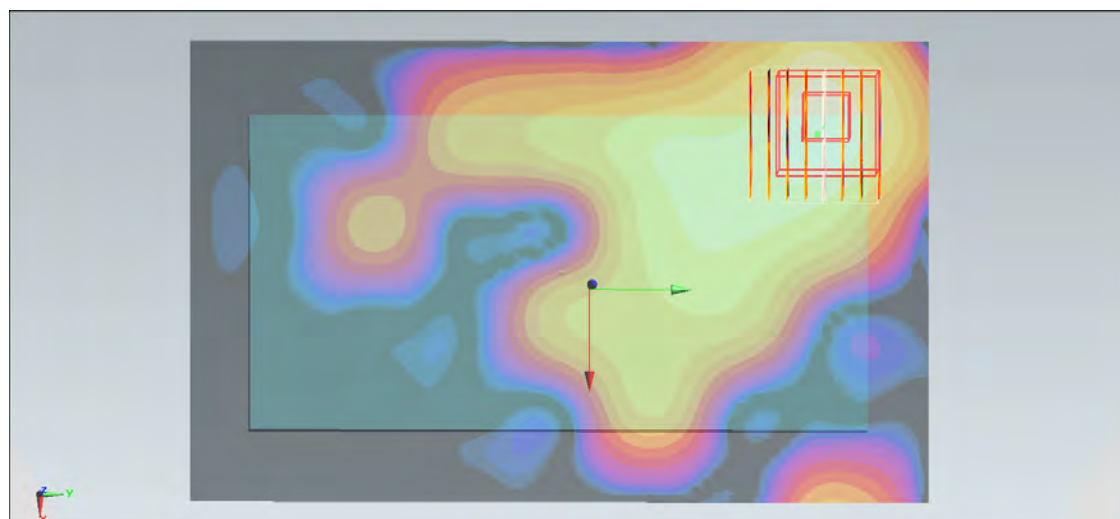
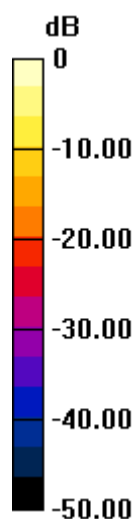
#97_WLAN5G_802.11a_Back_1cm_Ch40;Headset**DUT: 292639**

Communication System: 802.11a; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121009 Medium parameters used: $f = 5200$ MHz; $\sigma = 5.279$ mho/m; $\epsilon_r = 48.534$; $\rho =$ 1000 kg/m^3 Ambient Temperature : 22.9°C ; Liquid Temperature : 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.93, 3.93, 3.93); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM-Left; Type: QD 000 P40 C; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch40/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.176 mW/g **Ch40/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$ Reference Value = 0.972 V/m ; Power Drift = 0.034 dB Peak SAR (extrapolated) = 0.279 mW/g **SAR(1 g) = 0.071 mW/g ; SAR(10 g) = 0.021 mW/g** Maximum value of SAR (measured) = 0.166 mW/g  $0 \text{ dB} = 0.166 \text{ mW/g} = -15.60 \text{ dB mW/g}$

#86_WLAN5G_802.11a_Front_1cm_Ch52**DUT: 292639**

Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used: $f = 5260$ MHz; $\sigma = 5.32$ mho/m; $\epsilon_r = 47.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.66, 3.66, 3.66); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch52/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

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

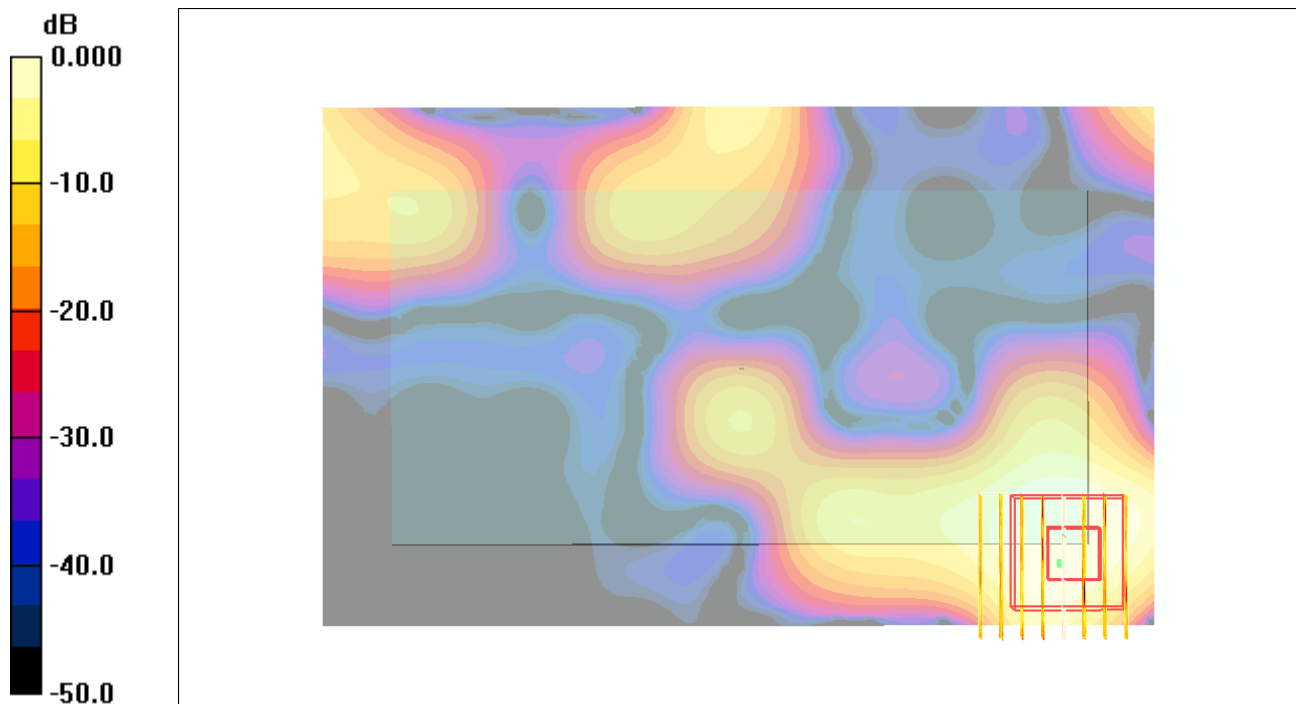
Ch52/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.16 V/m; Power Drift = -0.196 dB

Peak SAR (extrapolated) = 0.119 W/kg

SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.00991 mW/g

Maximum value of SAR (measured) = 0.062 mW/g



0 dB = 0.062mW/g

#87_WLAN5G_802.11a_Back_1cm_Ch52**DUT: 292639**

Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used: $f = 5260$ MHz; $\sigma = 5.32$ mho/m; $\epsilon_r = 47.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.66, 3.66, 3.66); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch52/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

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

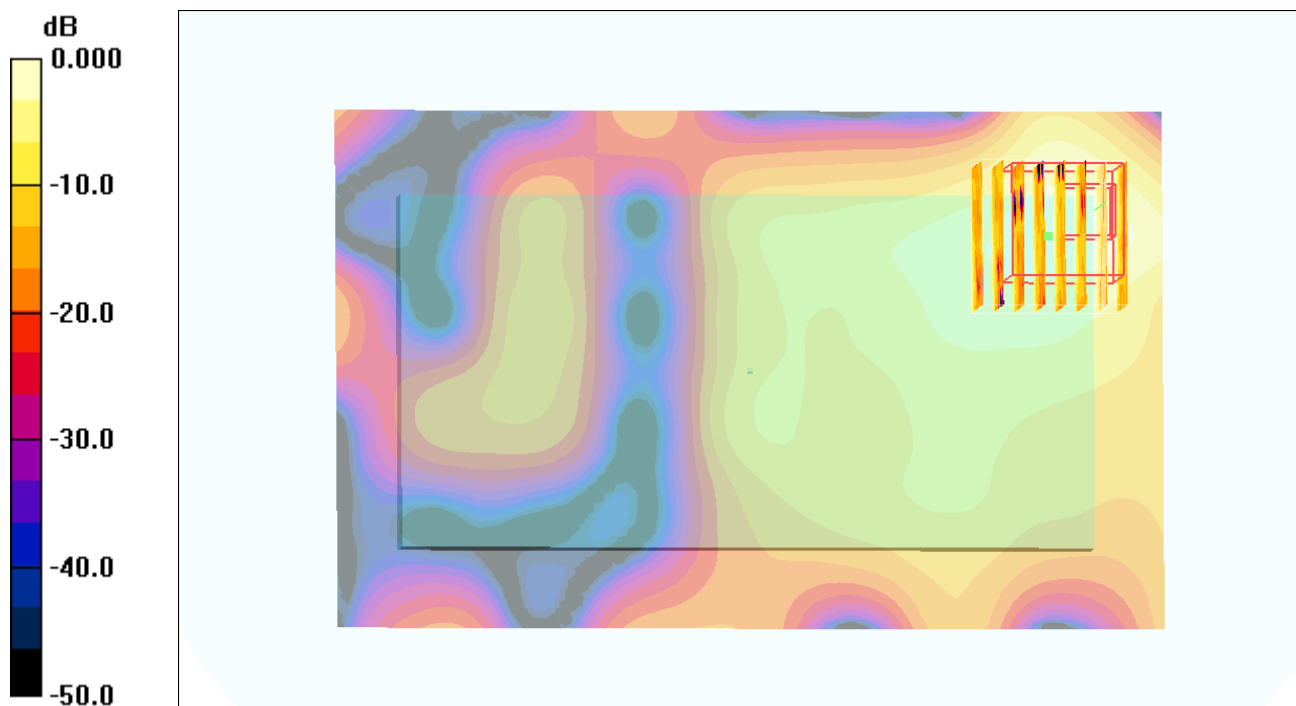
Ch52/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.16 V/m; Power Drift = 0.156 dB

Peak SAR (extrapolated) = 0.292 W/kg

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.169 mW/g



0 dB = 0.169mW/g

#87_WLAN5G_802.11a_Back_1cm_Ch52_2D**DUT: 292639**

Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used: $f = 5260$ MHz; $\sigma = 5.32$ mho/m; $\epsilon_r = 47.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.66, 3.66, 3.66); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch52/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

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

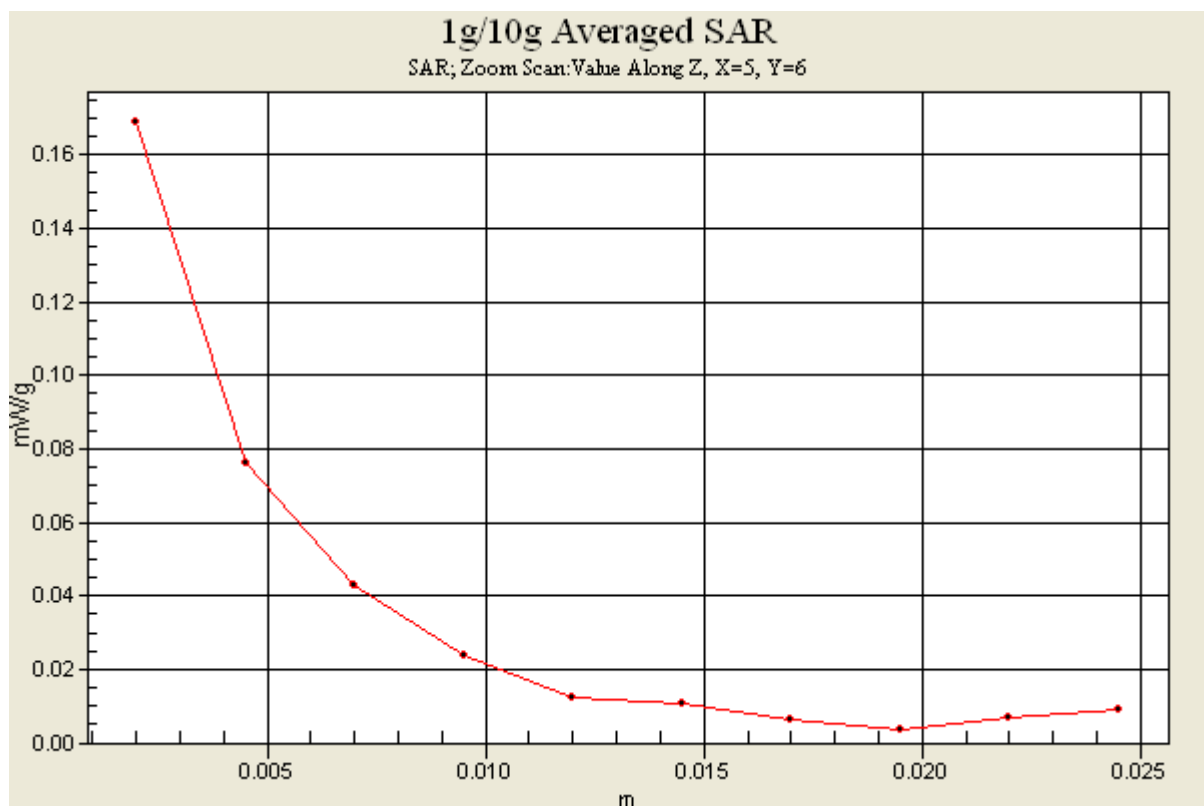
Ch52/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.16 V/m; Power Drift = 0.156 dB

Peak SAR (extrapolated) = 0.292 W/kg

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.169 mW/g



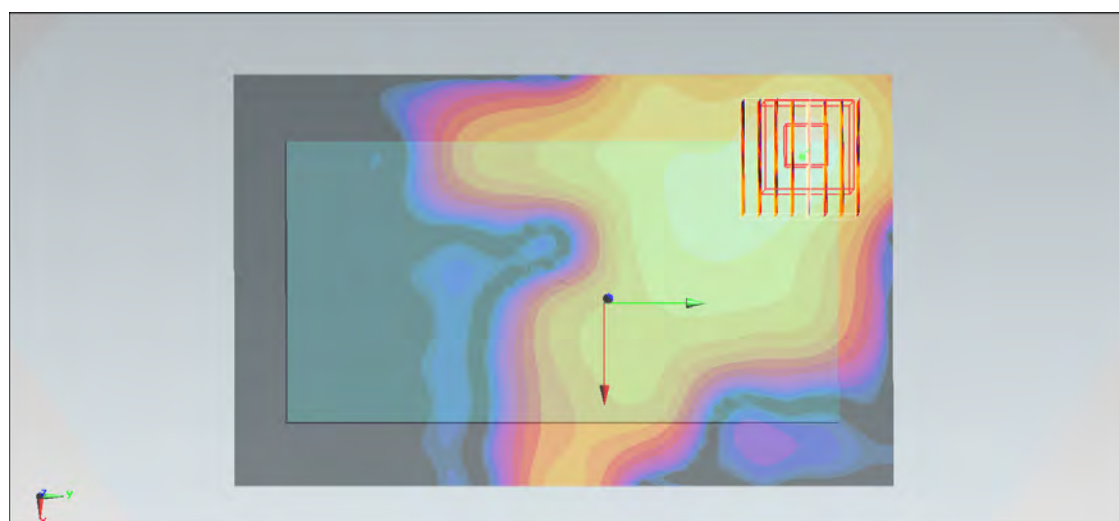
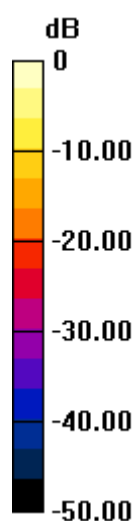
#98_WLAN5G_802.11a_Back_1cm_Ch52;Headset**DUT: 292639**

Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121009 Medium parameters used: $f = 5260$ MHz; $\sigma = 5.367$ mho/m; $\epsilon_r = 48.431$; $\rho =$ 1000 kg/m^3 Ambient Temperature : 22.9°C ; Liquid Temperature : 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.66, 3.66, 3.66); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM-Left; Type: QD 000 P40 C; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch52/Area Scan (101x161x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.197 mW/g **Ch52/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$ Reference Value = 0.997 V/m ; Power Drift = 0.047 dB Peak SAR (extrapolated) = 0.345 mW/g **SAR(1 g) = 0.083 mW/g ; SAR(10 g) = 0.022 mW/g** Maximum value of SAR (measured) = 0.201 mW/g  $0 \text{ dB} = 0.201 \text{ mW/g} = -13.94 \text{ dB mW/g}$

#88_WLAN5G_802.11a_Front_1cm_Ch132**DUT: 292639**

Communication System: 802.11a; Frequency: 5660 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used: $f = 5660$ MHz; $\sigma = 5.91$ mho/m; $\epsilon_r = 46.7$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.25, 3.25, 3.25); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch132/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.140 mW/g

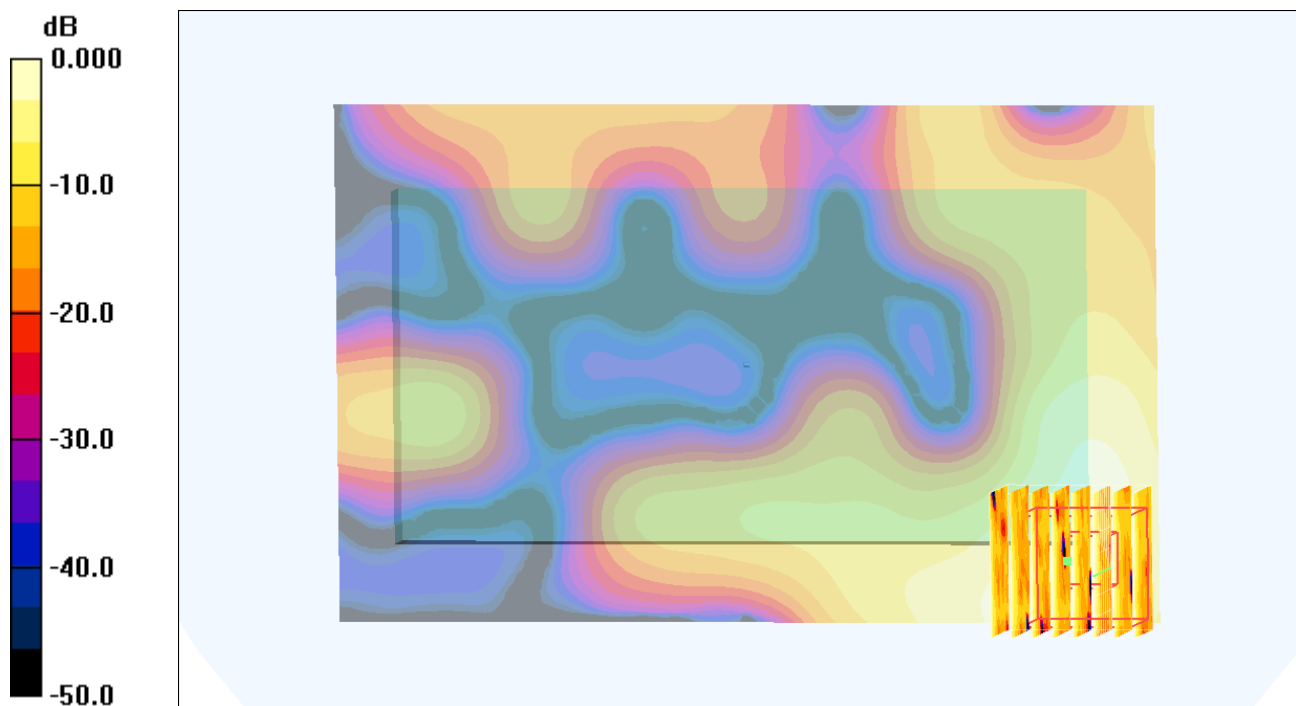
Ch132/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.06 V/m; Power Drift = -0.109 dB

Peak SAR (extrapolated) = 0.297 W/kg

SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.169 mW/g



0 dB = 0.169mW/g

#89_WLAN5G_802.11a_Back_1cm_Ch132**DUT: 292639**

Communication System: 802.11a; Frequency: 5660 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used: $f = 5660$ MHz; $\sigma = 5.91$ mho/m; $\epsilon_r = 46.7$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.25, 3.25, 3.25); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch132/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.437 mW/g

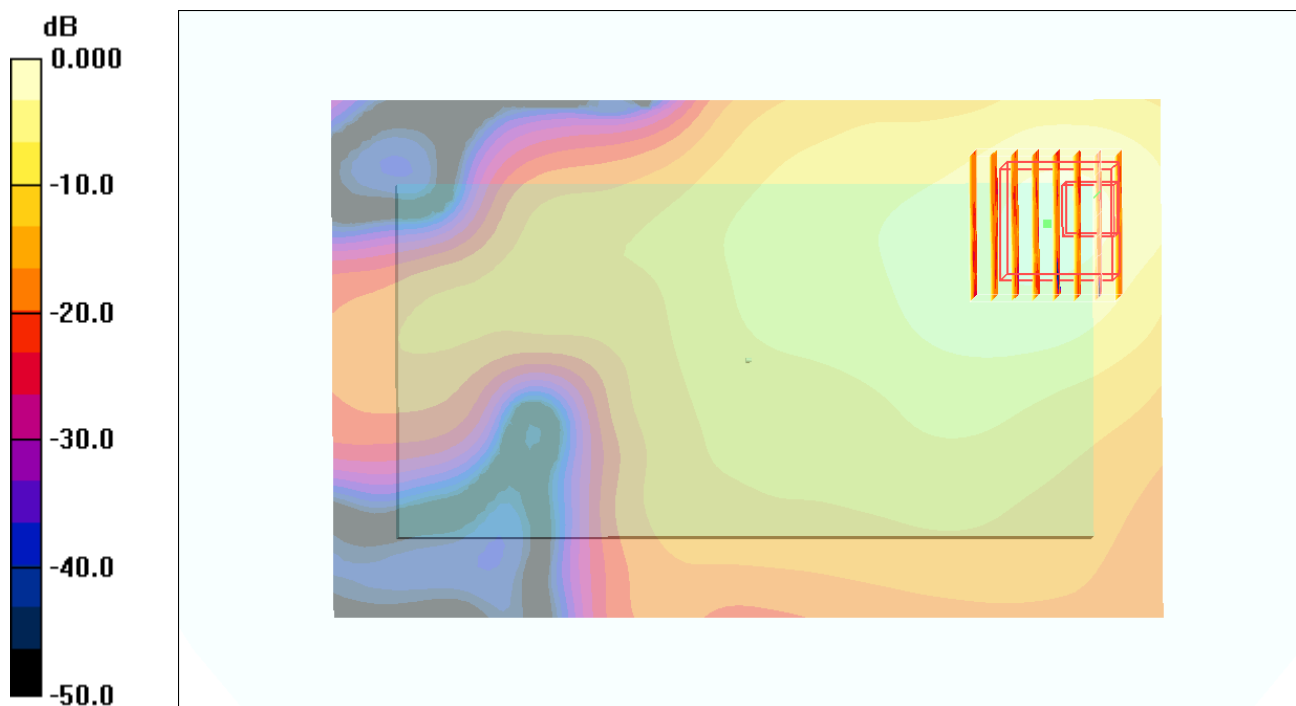
Ch132/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.95 V/m; Power Drift = 0.199 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.091 mW/g

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



0 dB = 0.635mW/g

#89_WLAN5G_802.11a_Back_1cm_Ch132_2D**DUT: 292639**

Communication System: 802.11a; Frequency: 5660 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used: $f = 5660$ MHz; $\sigma = 5.91$ mho/m; $\epsilon_r = 46.7$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.25, 3.25, 3.25); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch132/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.437 mW/g

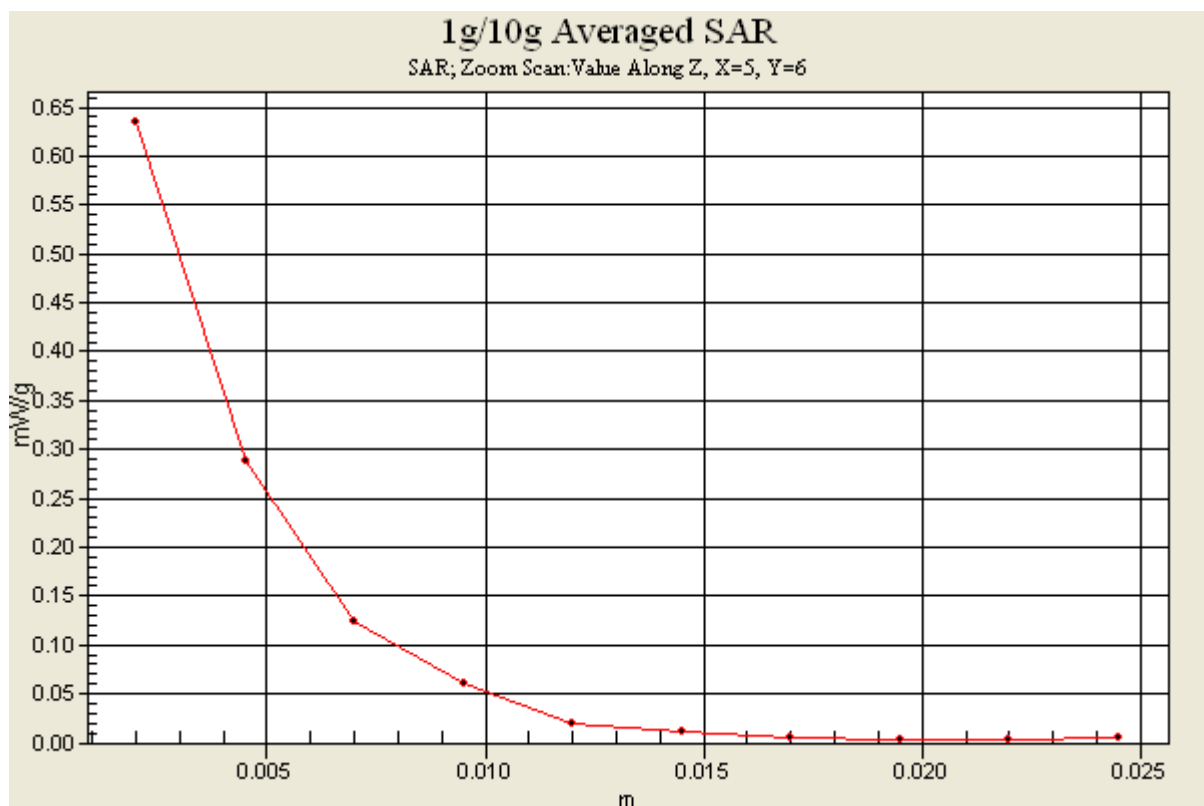
Ch132/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.95 V/m; Power Drift = 0.199 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.091 mW/g

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



#99_WLAN5G_802.11a_Back_1cm_Ch132;Headset**DUT: 292639**

Communication System: 802.11a; Frequency: 5660 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121009 Medium parameters used: $f = 5660$ MHz; $\sigma = 5.936$ mho/m; $\epsilon_r = 47.512$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.9 °C; Liquid Temperature : 21.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.25, 3.25, 3.25); Calibrated: 2012/6/21;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM-Left; Type: QD 000 P40 C; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Ch132/Area Scan (101x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.685 mW/g

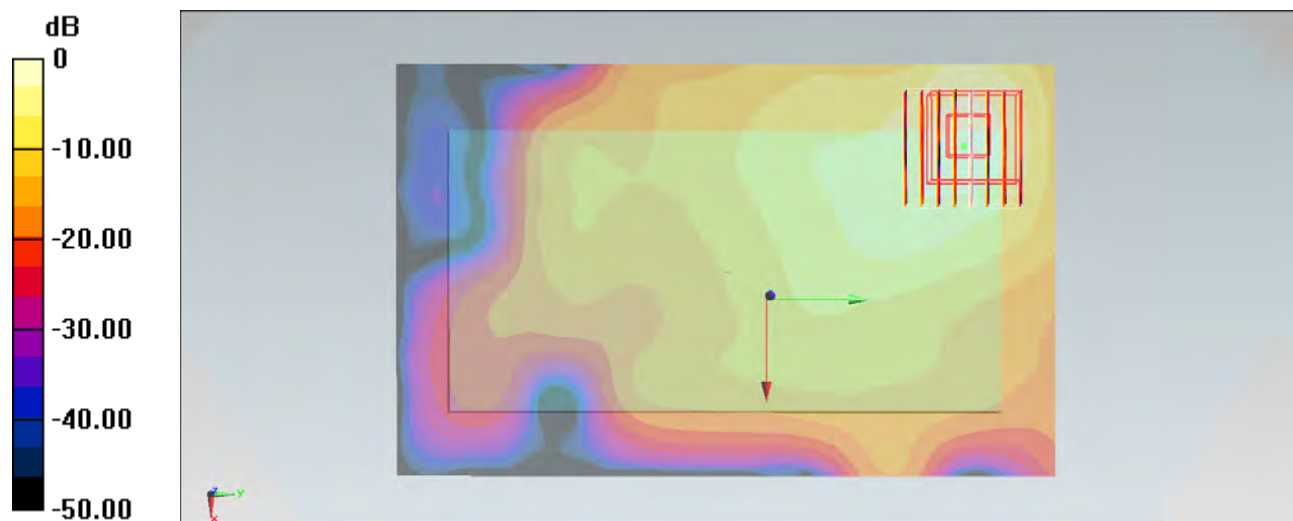
Ch132/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.784 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 1.201 mW/g

SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.086 mW/g

Maximum value of SAR (measured) = 0.653 mW/g



#90_WLAN5G_802.11a_Front_1cm_Ch165**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used : $f = 5825$ MHz; $\sigma = 6.22$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.43, 3.43, 3.43); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (121x161x1): Measurement grid: dx=10mm, dy=10mm

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

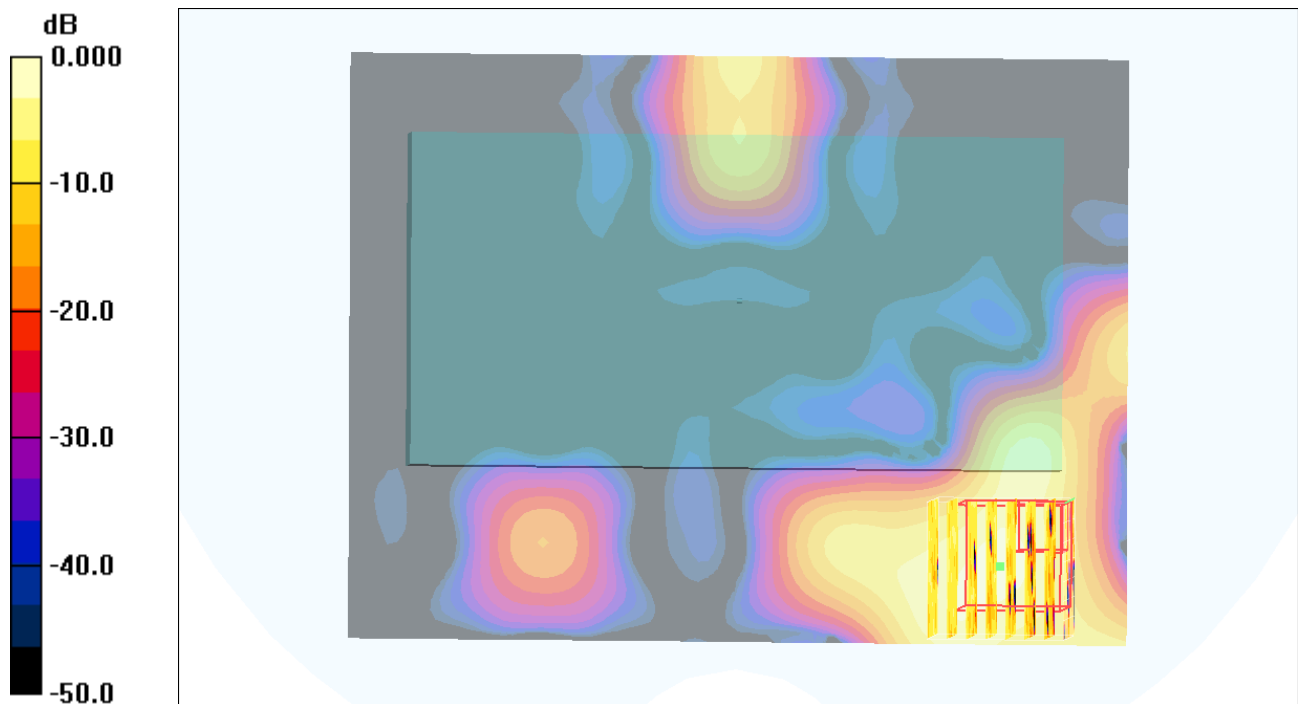
Ch165/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 0.982 V/m; Power Drift = -0.176 dB

Peak SAR (extrapolated) = 0.171 W/kg

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00566 mW/g

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



0 dB = 0.048mW/g

#91_WLAN5G_802.11a_Back_1cm_Ch165**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used : $f = 5825$ MHz; $\sigma = 6.22$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.43, 3.43, 3.43); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (121x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.173 mW/g

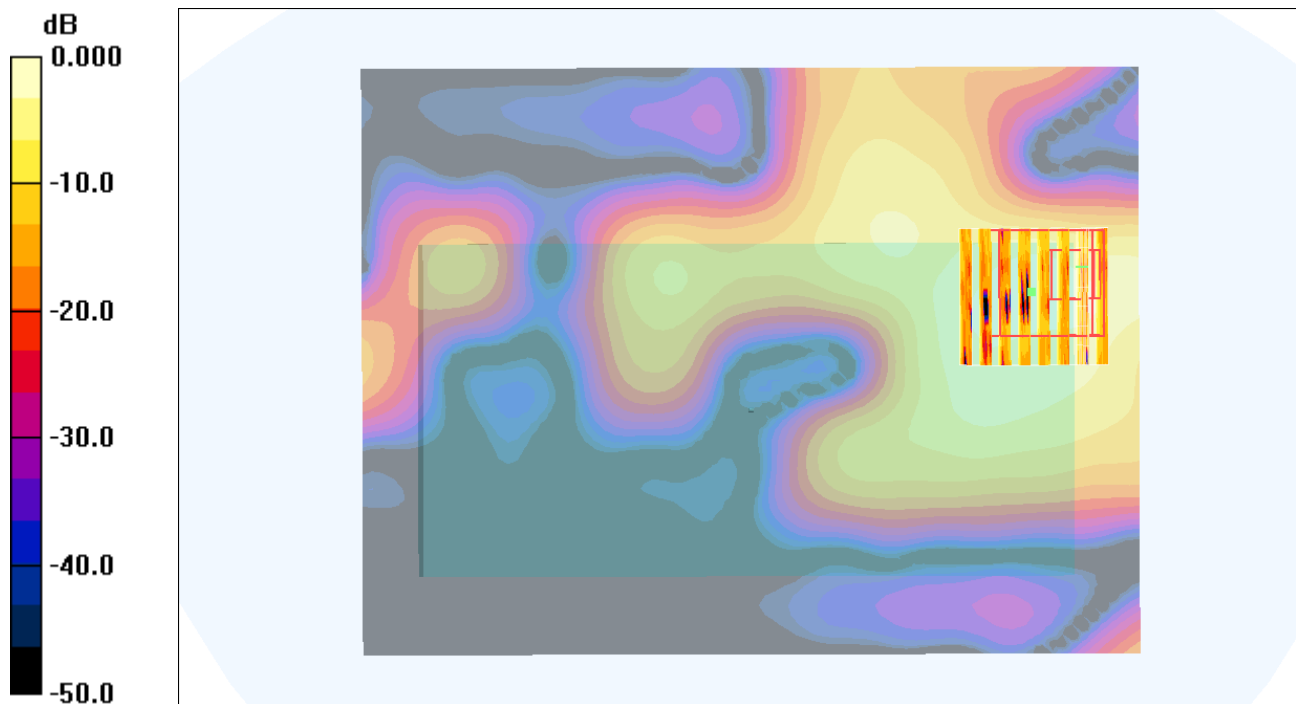
Ch165/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 0.843 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.348 W/kg

SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.197 mW/g



0 dB = 0.197mW/g

#91_WLAN5G_802.11a_Back_1cm_Ch165_2D**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used : $f = 5825$ MHz; $\sigma = 6.22$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.43, 3.43, 3.43); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (121x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.173 mW/g

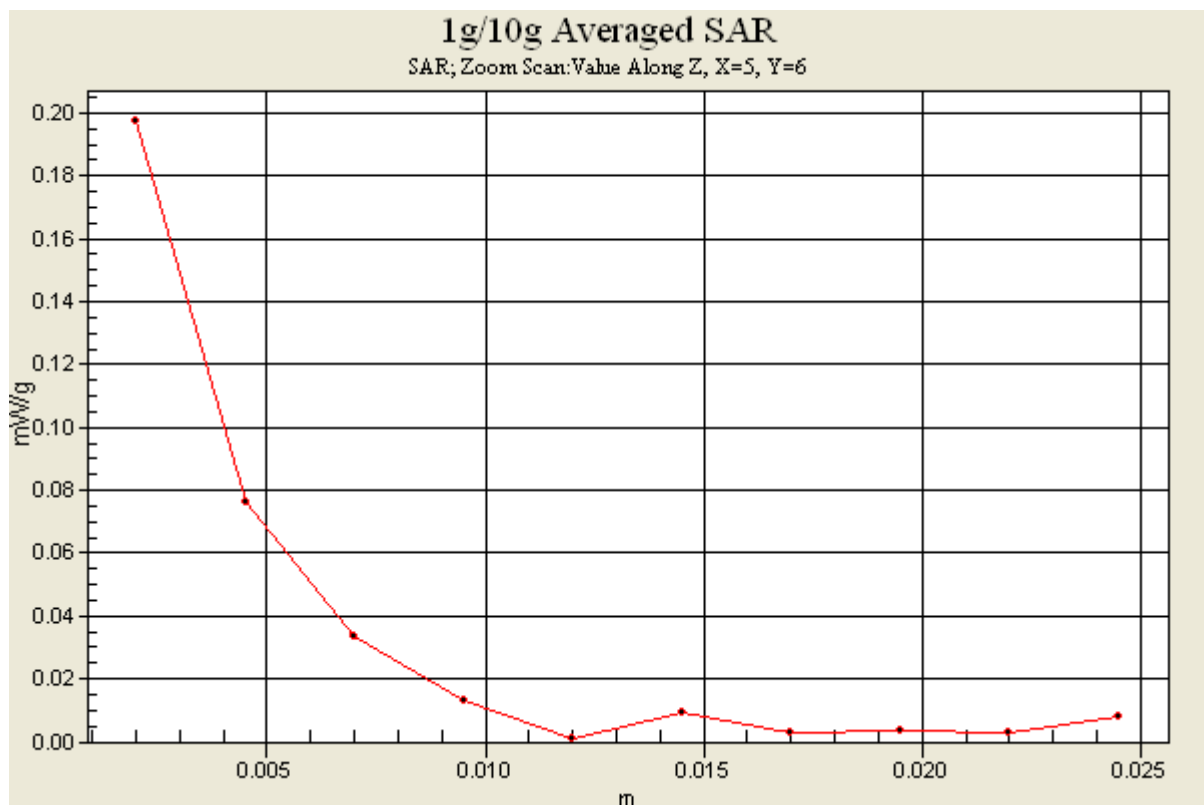
Ch165/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 0.843 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.348 W/kg

SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.197 mW/g



#93_WLAN5G_802.11a_Right Side_1cm_Ch165**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used : $f = 5825$ MHz; $\sigma = 6.22$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.43, 3.43, 3.43); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (81x161x1): Measurement grid: dx=10mm, dy=10mm

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

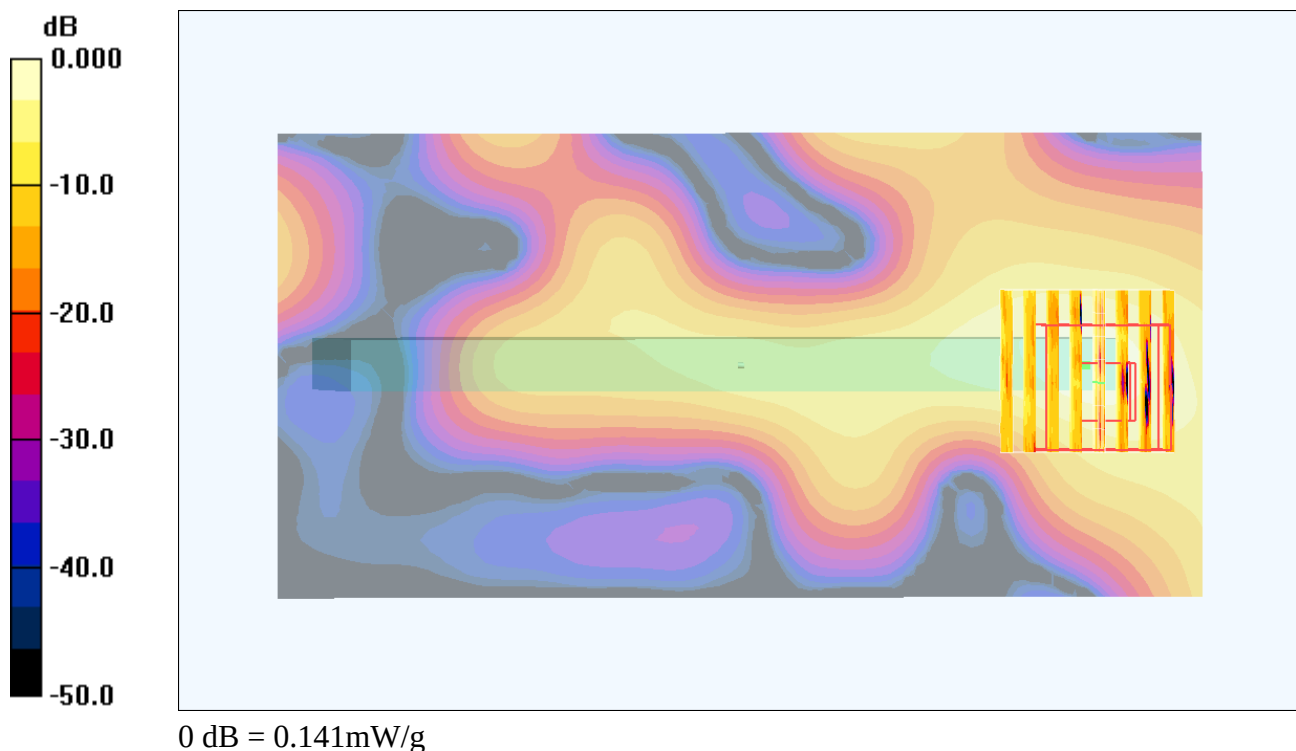
Ch165/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.20 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.256 W/kg

SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.022 mW/g

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



#94_WLAN5G_802.11a_Top Side_1cm_Ch165**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used : $f = 5825$ MHz; $\sigma = 6.22$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.43, 3.43, 3.43); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (81x121x1): Measurement grid: dx=10mm, dy=10mm

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

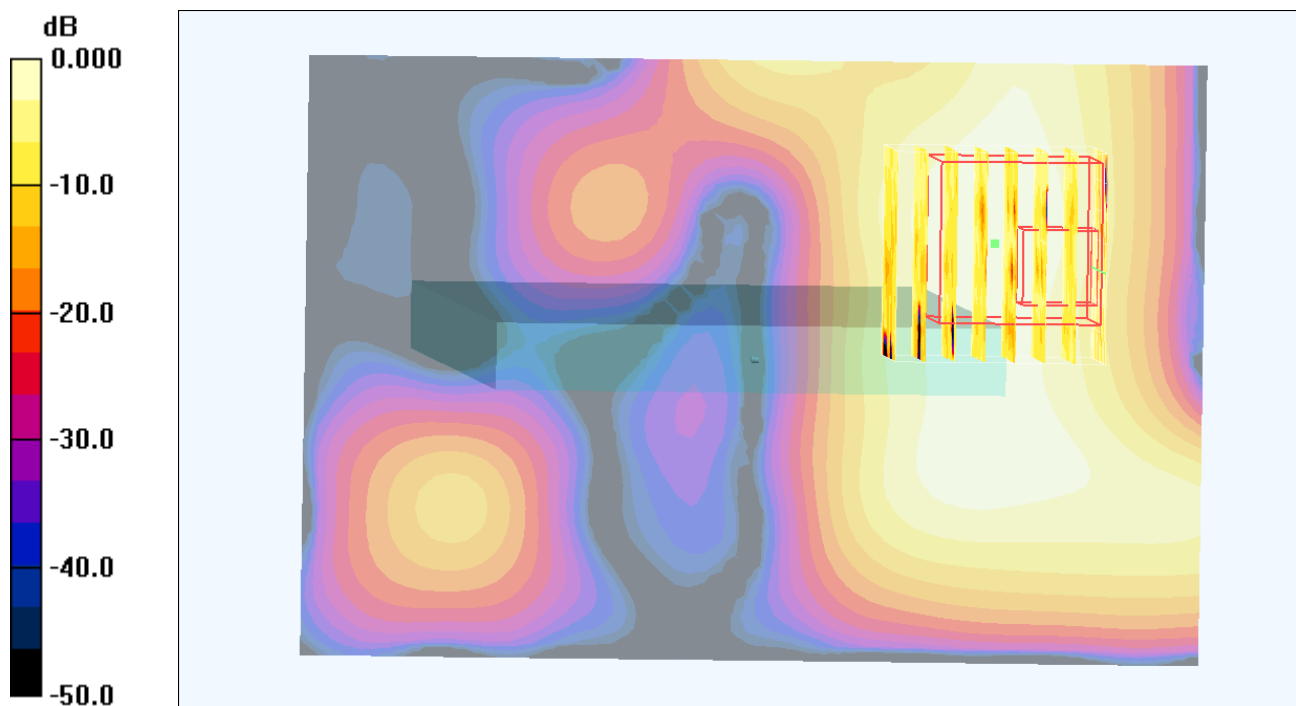
Ch165/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 0.687 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00796 mW/g

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



0 dB = 0.046mW/g

#90_WLAN5G_802.11a_Front_1cm_Ch165**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used : $f = 5825$ MHz; $\sigma = 6.22$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.43, 3.43, 3.43); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (121x161x1): Measurement grid: dx=10mm, dy=10mm

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

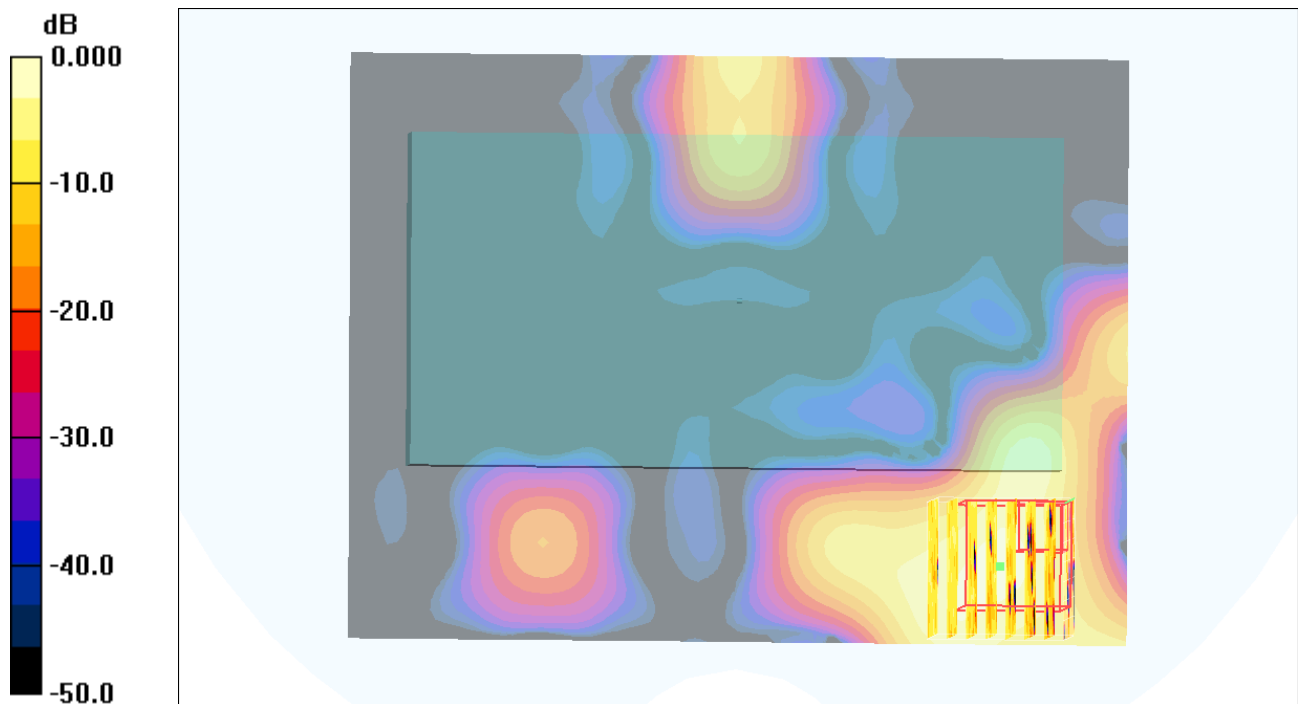
Ch165/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 0.982 V/m; Power Drift = -0.176 dB

Peak SAR (extrapolated) = 0.171 W/kg

SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00566 mW/g

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



0 dB = 0.048mW/g

#91_WLAN5G_802.11a_Back_1cm_Ch165**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used : $f = 5825$ MHz; $\sigma = 6.22$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.43, 3.43, 3.43); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (121x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.173 mW/g

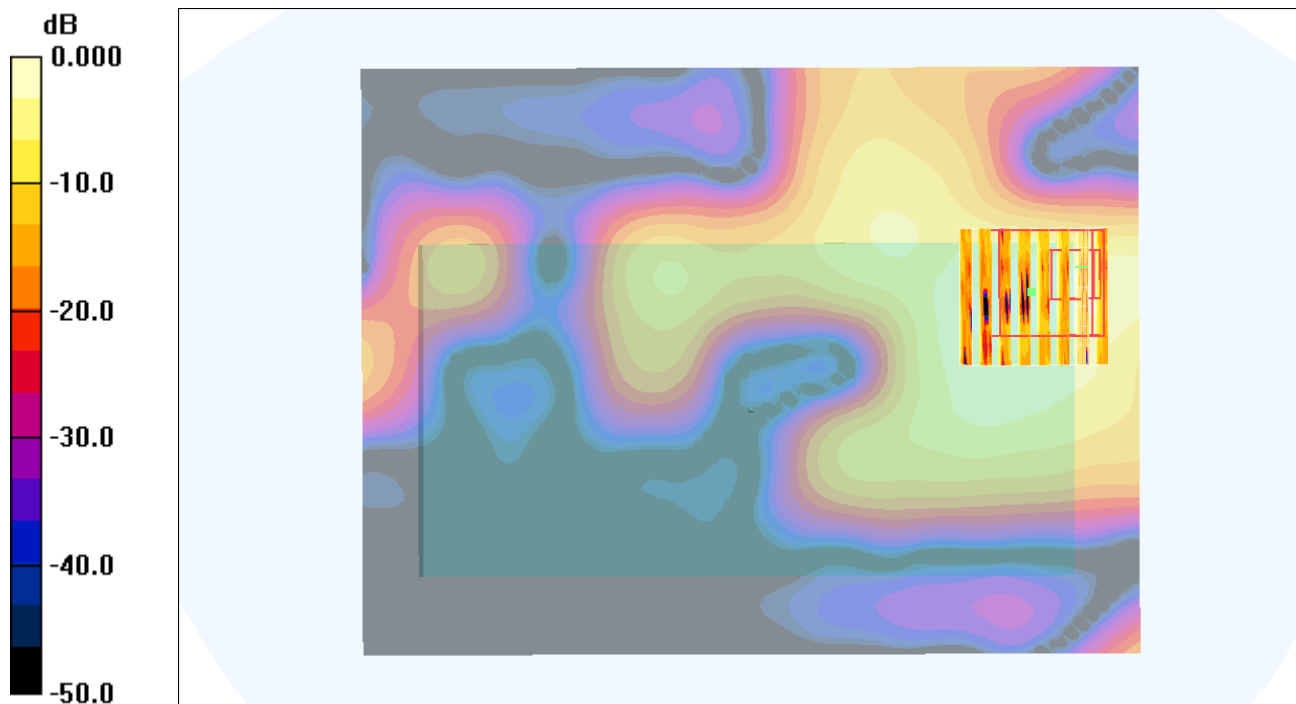
Ch165/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 0.843 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.348 W/kg

SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.197 mW/g



0 dB = 0.197mW/g

#96_WLAN5G_802.11a_Back_1cm_Ch165;Headsed**DUT: 292639**

Communication System: 802.11a; Frequency: 5825 MHz;Duty Cycle: 1:1

Medium: MSL_5G_121006 Medium parameters used : $f = 5825$ MHz; $\sigma = 6.22$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.6 °C ; Liquid Temperature : 21.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3578; ConvF(3.43, 3.43, 3.43); Calibrated: 2012/6/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2012/8/27
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch165/Area Scan (121x161x1): Measurement grid: dx=10mm, dy=10mm

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

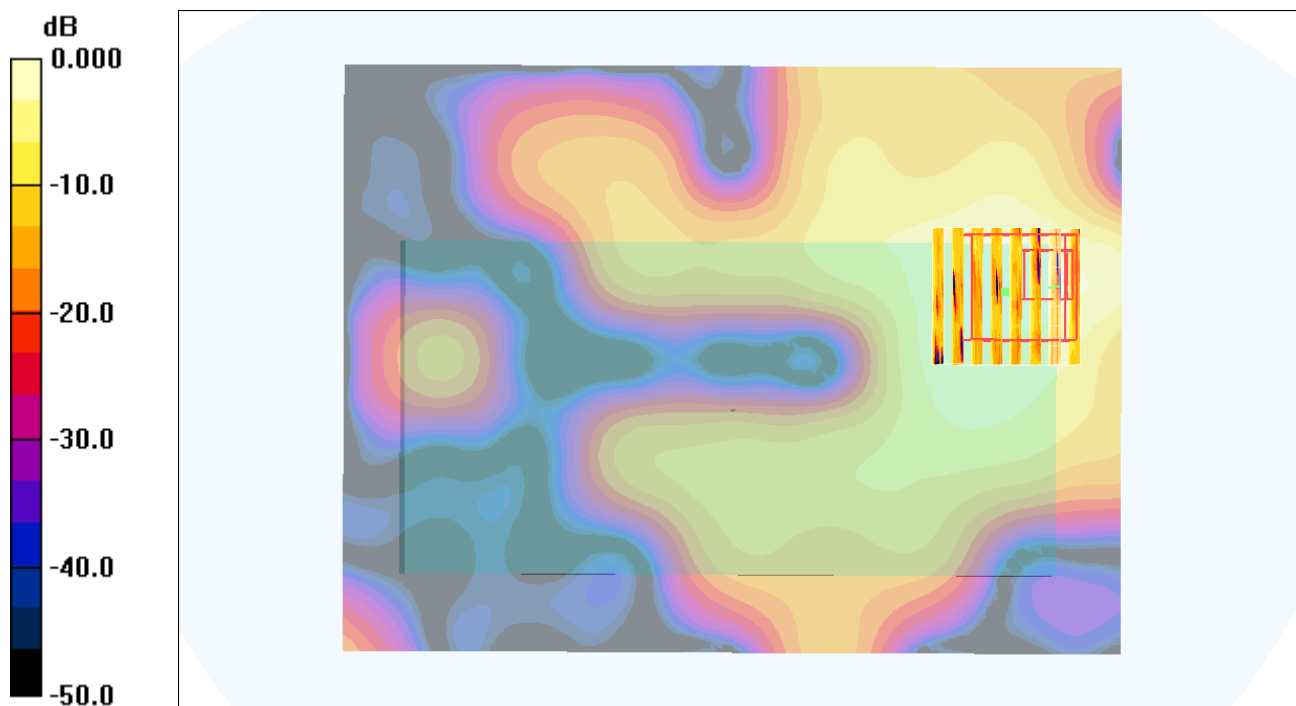
Ch165/Zoom Scan (8x8x10)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 0.972 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.335 W/kg

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.021 mW/g

Maximum value of SAR (measured) = 0.193 mW/g



0 dB = 0.193mW/g