



SAR Test Report

Product Name : GSM Mobile Phone
Model No. : HUAWEI G6153
FCC ID : QISG6153

Applicant : Huawei Technologies Co., Ltd.

Address : Administration Building, Headquarters of Huawei
Technologies Co., Ltd., Bantian, Longgang
District, Shenzhen, 518129, P.R.C

Date of Receipt : 06/08/2012
Date of Test : 15/08/2012
Issued Date : 30/08/2012
Report No. : 128S004R-HP-US-P03V01
Report Version : V1.0

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Test Report Certification

Issued Date: 30/08/2012

Report No.: 128S004R-HP-US-P03V01



Product Name : GSM Mobile Phone

Applicant : Huawei Technologies Co., Ltd.

Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Manufacturer : Huawei Technologies Co., Ltd.

Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Model No. : HUAWEI G6153

FCC ID : QISG6153

Brand Name : HUAWEI

EUT Voltage : DC 3.7V

Applicable Standard : FCC Oet65 Supplement C June 2001
IEEE Std. 1528-2003,47CFR § 2.1093

Test Result : Max. SAR Measurement (1g)
Head: 1.210 W/kg
Body: 1.050 W/kg

Performed Location : Suzhou EMC Laboratory
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FCC Registration Number: 800392

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Laboratory Information

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TABLE OF CONTENTS

Description	Page
1. General Information	6
1.1. EUT Description	6
1.2. Test Procedure	8
1.3. Test Environment.....	8
2. SAR Measurement System	9
2.1. DASY5 System Description.....	9
2.1.1. Applications	10
2.1.2. Area Scans	10
2.1.3. Zoom Scan (Cube Scan Averaging)	10
2.1.4. Uncertainty of Inter-/Extrapolation and Averaging	10
2.2. DASY5 E-Field Probe.....	11
2.2.1. Isotropic E-Field Probe Specification	11
2.3. Boundary Detection Unit and Probe Mounting Device	12
2.4. DATA Acquisition Electronics (DAE) and Measurement Server.....	12
2.5. Robot.....	13
2.6. Light Beam Unit.....	13
2.7. Device Holder.....	14
2.8. SAM Twin Phantom.....	14
3. Tissue Simulating Liquid	15
3.1. The composition of the tissue simulating liquid	15
3.2. Tissue Calibration Result.....	16
3.3. Tissue Dielectric Parameters for Head and Body Phantoms.....	17
4. SAR Measurement Procedure	18
4.1. SAR System Validation.....	18
4.1.1. Validation Dipoles	18
4.1.2. Validation Result	19
4.2. SAR Measurement Procedure.....	21
5. SAR Exposure Limits	22
6. Test Equipment List.....	23
7. Measurement Uncertainty.....	24
8. Conducted Power Measurement	25

9. Test Results.....27

 9.1. SAR Test Results Summary27

Appendix A. SAR System Validation Data35

Appendix B. SAR measurement Data41

Appendix D. Probe Calibration Data91

Appendix E. Dipole Calibration Data.....102

Appendix F. DAE Calibration Data..... 118

1. General Information

1.1. EUT Description

Product Name	GSM Mobile Phone
Model No.	HUAWEI G6153
IMEI 1	865739010005988
IMEI 2	865739010006663
Hardware Version	ALANBER-V1.0
Software Version	G6153V100R001C00B200SP03DW
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
2G	
Support Band	GSM850/PCS1900
GPRS Type	Class B
GPRS Class	Class 12
Uplink	GSM 850: 824~849MHz PCS 1900: 1850~1910MHz
Downlink	GSM 850: 869~894MHz PCS 1900: 1930~1990MHz
Release Version	R99
Type of modulation	GMSK for GSM/GPRS 8PSK for EDGE(only support downlink)
Antenna Gain	-3.0dBi for GSM 850 1.0dBi for PCS 1900
Max. Output Power (Conducted)	GPRS850: 32.25dBm GPRS1900: 30.60dBm
Max. Output Power (Radiated)	GPRS850: 27.77dBm- ERP GPRS1900: 31.27dBm- EIRP
Bluetooth	
Bluetooth Frequency	2402~2480MHz
Bluetooth Version	V2.1 + EDR
Type of modulation	FHSS
Data Rate	1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)
Antenna Gain	-2dBi
Components	
Headset Model Number #1	HUAWEI/ HT-1350002-47K001(A1)

Headset Model Number #2	HUAWEI/ 150C-333E-3.5MM-8
Battery #1	Brand Name: HUAWEI M/N: HB4J1 Rated Voltage and Capacitance: 3.7V/1050mAh S/N: BAAC620B13330766
Battery #2	Brand Name: HUAWEI M/N: HB4J1H Rated Voltage and Capacitance: 3.7V/1200mAh S/N: UNHC525X94313000
Battery #3	Brand Name: HUAWEI M/N: HB4J1 Rated Voltage and Capacitance: 3.7V/1050mAh S/N: GAGC502L89202207
Battery #4	Brand Name: HUAWEI M/N: HB4J1H Rated Voltage and Capacitance: 3.7V/1200mAh S/N: LACC412994355759
Adapter #1	Brand Name: HUAWEI M/N: HS-050040U6 Input: 100-240V~50/60Hz 0.2A Output: 5Vdc, 400mA S/N: HKAC12621362
Adapter #2	Brand Name: HUAWEI M/N: HS-050040U6 Input: 100-240V~50/60Hz 0.2A Output: 5Vdc, 400mA S/N: BYAC41112580

Note: Adapter #1 is used for RF test.

1.2. Test Procedure

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	EUT communicate with CMU 200, and test them respectively.

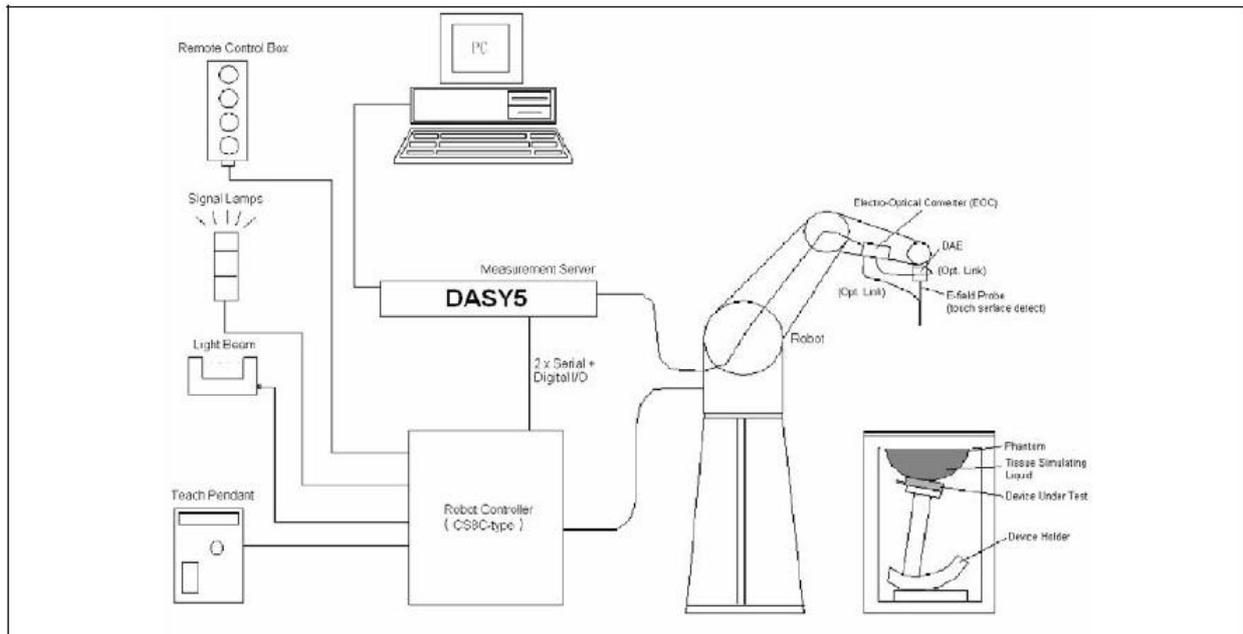
1.3. Test Environment

Ambient conditions in the laboratory:

Items	Required	Actual
Temperature (°C)	18-25	21.5± 2
Humidity (%RH)	30-70	52

2. SAR Measurement System

2.1. DASY5 System Description



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

- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

2.1.1. Applications

Predefined procedures and evaluations for automated compliance testing with all worldwide standards, e.g., IEEE 1528, OET 65, IEC 62209-1, IEC 62209-2, EN 50360, EN 50383 and others.

2.1.2. Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 10mm² step integral, with 1mm interpolation used to locate the peak SAR area used for zoom scan assessments.

When an Area Scan has measured all reachable points, it computes the field maxima found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE 1528-2003 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan).

2.1.3. Zoom Scan (Cube Scan Averaging)

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1 g cube is 10mm, with the side length of the 10 g cube 21,5mm.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications utilize a physical step of 7x7x7 (5mmx5mmx5mm) providing a volume of 30mm in the X & Y axis, and 30mm in the Z axis.

2.1.4. Uncertainty of Inter-/Extrapolation and Averaging

In order to evaluate the uncertainty of the interpolation, extrapolation and averaged SAR calculation algorithms of the Postprocessor, DASY5 allows the generation of measurement grids which are artificially predefined by analytically based test functions. Therefore, the grids of area scans and zoom scans can be filled with uncertainty test data, according to the SAR benchmark functions of IEEE 1528. The three analytical functions shown in equations as below are used to describe the possible range of the expected SAR distributions for the tested handsets. The field gradients are covered by the spatially flat distribution f1, the spatially steep distribution f3 and f2 accounts for H-field cancellation on the phantom/tissue surface.

$$f_1(x, y, z) = Ae^{-\frac{z}{2a}} \cos^2 \left(\frac{\pi \sqrt{x'^2 + y'^2}}{2 \cdot 5a} \right)$$

$$f_2(x, y, z) = Ae^{-\frac{z}{a}} \frac{a^2}{a^2 + x'^2} \left(3 - e^{-\frac{2z}{a}} \right) \cos^2 \left(\frac{\pi y'}{2 \cdot 3a} \right)$$

$$f_3(x, y, z) = A \frac{a^2}{\frac{a^2}{4} + x'^2 + y'^2} \left(e^{-\frac{2z}{a}} + \frac{a^2}{2(a + 2z)^2} \right)$$

2.2. DASY5 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. SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528, EN 62209-1, IEC 62209, etc.) under ISO 17025. The calibration data are in Appendix D.

2.2.1. Isotropic E-Field Probe Specification

Model	EX3DV4	
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 (30 MHz to 6 GHz)	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

2.3. Boundary Detection Unit and Probe Mounting Device

The DASY5 probes use a precise connector and an additional holder for the probe, consisting of a plastic tube and a flexible silicon ring to center the probe. The connector at the DAE is flexibly mounted and held in the default position with magnets and springs. Two switching systems in the connector mount detect frontal and lateral probe collisions and trigger the necessary software response.



2.4. DATA Acquisition Electronics (DAE) and Measurement Server

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 DAE4 is 200M Ohm; the inputs are symmetrical and floating. Common mode rejection is above 80dB.



The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz intel ULV Celeron, 128MB chipdisk and 128MB RAM. The necessary circuits for communication with the DAE electronics box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.



2.5. Robot

The DASY5 system uses the high precision robots TX90 XL type out of the newer series from Stäubli SA (France). For the 6-axis controller DASY5 system, the CS8C robot controller version from Stäubli is used.

The XL robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)
- 6-axis controller



2.6. Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.

The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



2.7. Device Holder

The DASY5 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 (EPR).

Thus the device needs no repositioning when changing the angles.

The DASY5 device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon_r = 3$ 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.



2.8. SAM Twin Phantom

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

- Left head
- Right head
- Flat 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.

3. Tissue Simulating Liquid

3.1. The composition of the tissue simulating liquid

INGREDIENT (% Weight)	835MHz Head	835MHz Body	1900MHz Head	1900MHz Body	2450MHz Head	2450MHz Body
Water	40.45	52.4	54.90	40.5	46.7	73.2
Salt	1.45	1.40	0.18	0.50	0.00	0.04
Sugar	57.6	45.0	0.00	58.0	0.00	0.00
HEC	0.40	1.00	0.00	0.50	0.00	0.00
Preventol	0.10	0.20	0.00	0.50	0.00	0.00
DGBE	0.00	0.00	44.92	0.00	53.3	26.7

3.2. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using DASY5 Dielectric Probe Kit and Agilent Vector Network Analyzer E5071C

Head Tissue Simulant Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
835 MHz	Reference result ± 5% window	41.50 39.43 to 43.58	0.90 0.86 to 0.95	N/A
	15-08-2012	41.58	0.90	21.0
1900 MHz	Reference result ± 5% window	40.00 38.00 to 42.00	1.40 1.33 to 1.47	N/A
	15-08-2012	39.32	1.44	21.0
2450MHz	Reference result ± 5% window	39.2 37.24 to 41.16	1.80 1.71 to 1.89	N/A
	15-08-2012	39.09	1.80	21.0

Body Tissue Simulant Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		ϵ_r	σ [s/m]	
835 MHz	Reference result ± 5% window	55.2 52.44 to 57.96	0.97 0.92 to 1.02	N/A
	15-08-2012	53.64	0.97	21.0
1900 MHz	Reference result ± 5% window	53.3 50.64 to 55.97	1.52 1.44 to 1.60	N/A
	15-08-2012	54.07	1.55	21.0
2450MHz	Reference result ± 5% window	52.7 50.07 to 55.34	1.95 1.85 to 2.05	N/A
	15-08-2012	52.38	2.00	21.0

3.3. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [1] and extrapolated according to the head parameters specified in P1528.

Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

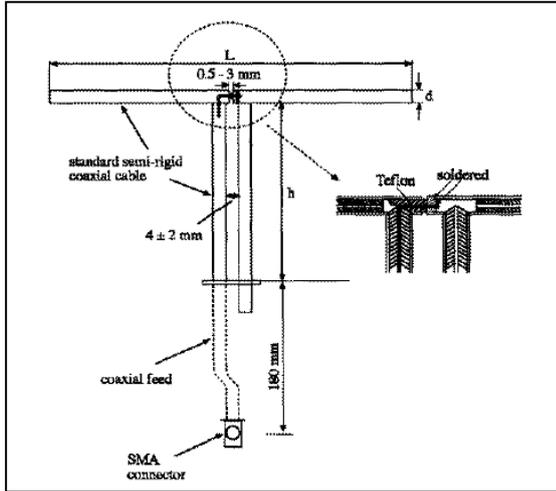
(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)

Reference [1]: Gabriel, C., "Compilation of the Dielectric Properties of Body Tissues at RF and Microwave Frequencies", Brooks Air Force Technical Report AL/OE-TR-1996-0037, 1996.

4. SAR Measurement Procedure

4.1. SAR System Validation

4.1.1. Validation Dipoles



The dipoles used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of both IEEE and FCC Supplement C. the table below provides details for the mechanical and electrical specifications for the dipoles.

Frequency	L (mm)	h (mm)	d (mm)
835MHz	161.0	89.8	3.6
1900MHz	68.0	39.5	3.6
2450MHz	51.5	30.4	3.6

4.1.2. Validation Result

System Performance Check at 835MHz &1900MHz &2450MHz for Head				
Validation Kit: D835V2-SN 4d094				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
835 MHz	Reference result ± 10% window	9.41 8.47 to 10.35	6.15 5.54 to 6.77	N/A
	15-08-2012	9.76	6.36	21.0
Validation Kit: D1900V2-SN 5d121				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
1900 MHz	Reference result ± 10% window	39.4 35.46 to 43.34	20.8 18.72 to 22.88	N/A
	15-08-2012	39.72	20.08	21.0
Validation Dipole: D2450V2, SN: 839				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
2450 MHz	Reference result ± 10% window	52.3 47.07 to 57.53	24.5 22.05 to 26.95	N/A
	15-08-2012	50.40	22.44	21.0
Note: All SAR values are normalized to 1W forward power.				
System Performance Check at 835MHz &1900MHz &2450MHz for Body				
Validation Kit: D835V2-SN 4d094				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
835 MHz	Reference result ± 10% window	9.57 8.61 to 10.53	6.33 5.70 to 6.96	N/A
	15-08-2012	10.00	6.52	21.0
Validation Kit: D1900V2-SN 5d121				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
1900 MHz	Reference result ± 10% window	38.7 34.83 to 42.57	20.4 18.36 to 22.44	N/A
	15-08-2012	41.60	21.60	21.0

Validation Dipole: D2450V2, SN: 839

Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp. [°C]
2450 MHz	Reference result ± 10% window	51.6 46.44 to 56.76	24.2 21.78 to 26.62	N/A
	15-08-2012	49.20	22.40	21.0

Note: All SAR values are normalized to 1W forward power.

4.2. SAR Measurement Procedure

The DASY5 calculates SAR using the following equation,

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

σ : represents the simulated tissue conductivity

ρ : represents the tissue density

The EUT is set to transmit at the required power in line with product specification, at each frequency relating to the LOW, MID, and HIGH channel settings.

Pre-scans are made on the device to establish the location for the transmitting antenna, using a large area scan in either air or tissue simulation fluid.

The EUT is placed against the Universal Phantom where the maximum area scan dimensions are larger than the physical size of the resonating antenna. When the scan size is not large enough to cover the peak SAR distribution, it is modified by either extending the area scan size in both the X and Y directions, or the device is shifted within the predefined area.

The area scan is then run to establish the peak SAR location (interpolated resolution set at 1mm^2) which is then used to orient the center of the zoom scan. The zoom scan is then executed and the 1g and 10g averages are derived from the zoom scan volume (interpolated resolution set at 1mm^3).

5. SAR Exposure Limits

SAR assessments have been made in line with the requirements of IEEE-1528, FCC Supplement C, and comply with ANSI/IEEE C95.1-1992 “Uncontrolled Environments” limits. These limits apply to a location which is deemed as “Uncontrolled Environment” which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

Limits for General Population/Uncontrolled Exposure (W/kg)

Type Exposure	Uncontrolled Environment Limit
Spatial Peak SAR (1g cube tissue for brain or body)	1.60 W/kg
Spatial Average SAR (whole body)	0.08 W/kg
Spatial Peak SAR (10g for hands, feet, ankles and wrist)	4.00 W/kg

6. Test Equipment List

Instrument	Manufacturer	Model No.	Serial No.	Cali. Due Date
Stäubli Robot TX60L	Stäubli	TX60L	F10/5C90A1/A/01	only once
Controller	Stäubli	SP1	S-0034	only once
Dipole Validation Kits	Speag	D835V2	4d094	2013.02.17
Dipole Validation Kits	Speag	D1900V2	5d121	2013.02.22
Dipole Validation Kits	Speag	D2450V2	839	2013.02.23
SAM Twin Phantom	Speag	SAM	TP-1561/1562	N/A
Device Holder	Speag	SD 000 H01 HA	N/A	N/A
Data Acquisition Electronic	Speag	DAE4	1220	2013.01.23
E-Field Probe	Speag	EX3DV4	3710	2013.03.12
SAR Software	Speag	DASY5	V5.2 Build 162	N/A
Power Amplifier	Mini-Circuit	ZVA-183-S+	N657400950	N/A
Directional Coupler	Agilent	778D	20160	N/A
Universal Radio Communication Tester	R&S	CMU 200	117088	2013.04.18
Vector Network	Agilent	E5071C	MY48367267	2013.04.10
Signal Generator	Agilent	E4438C	MY49070163	2013.04.18
Power Meter	Anritsu	ML2495A	0905006	2013.01.12
Wide Bandwidth Sensor	Anritsu	MA2411B	0846014	2013.01.12

7. Measurement Uncertainty

DASY5 Uncertainty								
Measurement uncertainty for 300 MHz to 3 GHz averaged over 1 gram / 10 gram.								
Error Description	Uncert. value	Prob. Dist.	Div.	(c) 1g	(c) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(vi) V _{eff}
Measurement System								
Probe Calibration	±6.0%	N	1	1	1	±6.0%	±6.0%	∞
Axial Isotropy	±4.7%	R	√3	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical Isotropy	±9.6%	R	√3	0.7	0.7	±3.9%	±3.9%	∞
Boundary Effects	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Readout Electronics	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response Time	±0.8%	R	√3	1	1	±0.5%	±0.5%	∞
Integration Time	±2.6%	R	√3	1	1	±1.5%	±1.5%	∞
RF Ambient Noise	±3.0%	R	√3	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±3.0%	R	√3	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.4%	R	√3	1	1	±0.2%	±0.2%	∞
Probe Positioning	±2.9%	R	√3	1	1	±1.7%	±1.7%	∞
Max. SAR Eval.	±1.0%	R	√3	1	1	±0.6%	±0.6%	∞
Test Sample Related								
Device Positioning	±2.9%	N	1	1	1	±2.9%	±2.9%	145
Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%	5
Power Drift	±5.0%	R	√3	1	1	±2.9%	±2.9%	∞
Phantom and Setup								
Phantom Uncertainty	±4.0%	R	√3	1	1	±2.3%	±2.3%	∞
Liquid Conductivity (target)	±5.0%	R	√3	0.64	0.43	±1.8%	±1.2%	∞
Liquid Conductivity (meas.)	±2.5%	N	1	0.64	0.43	±1.6%	±1.1%	∞
Liquid Permittivity (target)	±5.0%	R	√3	0.6	0.49	±1.7%	±1.4%	∞
Liquid Permittivity (meas.)	±2.5%	N	1	0.6	0.49	±1.5%	±1.2%	∞
Combined Std. Uncertainty						±11.0%	±10.8%	387
Expanded STD Uncertainty						±22.0%	±21.5%	

8. Conducted Power Measurement

Mode	Frequency (MHz)	Avg. Burst Power (dBm)	Duty Cycle Factor (dB)	Frame Power (dBm)
Maximum Power <SIM 1>				
GSM850	824.2	32.09	-9	23.09
	836.4	32.12	-9	23.12
	848.8	32.09	-9	23.09
GPRS850(1 Slot)	824.2	32.22	-9	23.22
	836.4	32.25	-9	23.25
	848.8	32.22	-9	23.22
GPRS850(2 Slot)	824.2	31.61	-6	25.61
	836.4	31.67	-6	25.67
	848.8	31.68	-6	25.68
GPRS850(3 Slot)	824.2	30.12	-4.25	25.87
	836.4	30.17	-4.25	25.92
	848.8	30.18	-4.25	25.93
GPRS850(4 Slot)	824.2	29.28	-3	26.28
	836.4	29.36	-3	26.36
	848.8	29.38	-3	26.38
PCS1900	1850.2	30.38	-9	21.38
	1880.0	30.29	-9	21.29
	1909.8	30.29	-9	21.29
GPRS1900(1 Slot)	1850.2	30.60	-9	21.60
	1880.0	30.53	-9	21.53
	1909.8	30.57	-9	21.57
GPRS1900(2 Slot)	1850.2	29.60	-6	23.60
	1880.0	29.57	-6	23.57
	1909.8	29.69	-6	23.69
GPRS1900(3 Slot)	1850.2	27.73	-4.25	23.48
	1880.0	27.74	-4.25	23.49
	1909.8	27.99	-4.25	23.74
GPRS1900(4 Slot)	1850.2	26.74	-3	23.74
	1880.0	26.75	-3	23.75
	1909.8	27.03	-3	24.03

Maximum Power <SIM 2>				
GSM850	836.4	32.10	-9	23.10
PCS1900	1880.0	30.28	-9	21.28

Note: All SAR was tested in SIM 1.

9. Test Results

9.1. SAR Test Results Summary

9.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE1528, and Body SAR was performed with the device 15mm from the phantom. Body SAR was also performed with the headset attached and without.

9.1.2. Body SAR with Headset

Testing with the headset was performed at the position and channels that resulted in the highest body SAR. This testing was performed with GPRS transmitting with 1/2/3/4 uplink timeslots. This operation mode represents the maximum SAR situation, when downloading data via GPRS and listening to music by headset. SAR without the headset attached was significantly higher than with the headset, and also was verified several times and confirmed, so the final test data shown were the worst case without headset.

In the Body SAR test result table, body-worn means display of device down, body-front means display of device up.

9.1.3. Operation Mode

This is a multislots class 12 device capable of 4 uplink timeslots. During the head SAR test, the device was transmitting with 1 uplink timeslot; during the body SAR test, it was transmitting with 1/2/3/4 uplink timeslots. Additionally, this device doesn't support dual transfer mode (DTM).

9.1.4. Simultaneous Transmission SAR Analysis

Reference document: KDB 447498 and KDB 648474, KDB941225.

The closest separation between WWAN antenna and BT antenna is 14mm. Bluetooth Max average power is lower than Pref, but BT antenna is < 2.5cm from WWAN and the Max SAR Value of WWAN is > 1.2W/kg, thus, stand-alone SAR for Bluetooth is evaluated.

Head Max SAR value and the sum of the 1-g SAR for BT & WWAN.

Max 1-g SAR (W/kg)		Σ 1-g SAR (W/kg)
BT	WWAN	
0.0006	1.21	1.2106

Body SAR value and the sum of the 1-g SAR for BT & WWAN.

Max 1-g SAR (W/kg)		Σ 1-g SAR (W/kg)
BT	WWAN	
0.004	1.05	1.054

Conclusion:

Simultaneous Transmission

Require for Simultaneous Transmission SAR with Volume Scans

BT & WWAN

No (The sum of the 1-g SAR is < 1.6 W/kg)

9.1.5. Test Result

SAR MEASUREMENT							
Ambient Temperature (°C) : 21.5 ±2				Relative Humidity (%): 52			
Liquid Temperature (°C) : 21.0 ±2				Depth of Liquid (cm):>15			
Product: GSM Mobile Phone							
Test Mode: GSM850 <SIM 1>							
Test Position Head	Antenna Position	Frequency		Frame Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz				
Left-Cheek	Fixed	128	824.2	23.09	--	--	1.6
Left-Cheek	Fixed	189	836.4	23.12	-0.04	0.313	1.6
Left-Cheek	Fixed	251	848.8	23.09	--	--	1.6
Left-Tilted	Fixed	189	836.4	23.12	0.02	0.216	1.6
Right-Cheek	Fixed	128	824.2	23.09	--	--	1.6
Right-Cheek	Fixed	189	836.4	23.12	-0.10	0.287	1.6
Right-Cheek	Fixed	251	848.8	23.09	--	--	1.6
Right-Tilted	Fixed	189	836.4	23.12	0.12	0.199	1.6
Test Mode: GSM850 <SIM 2>							
Left-Cheek	Fixed	189	836.4	23.10	-0.15	0.303	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225.							

SAR MEASUREMENT								
Ambient Temperature (°C) : 21.5 ±2				Relative Humidity (%): 52				
Liquid Temperature (°C) : 21.0 ±2				Depth of Liquid (cm):>15				
Product: GSM Mobile Phone								
Test Mode: GPRS850-1slot								
Test Position Body	Antenna Position	Frequency		Separation Distance (mm)	Frame Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz					
Body-worn	Fixed	189	836.4	15	23.25	-0.02	0.476	1.6
Test Mode: GPRS850-2slot								
Body-worn	Fixed	189	836.4	15	25.67	-0.03	0.775	1.6
Test Mode: GPRS850-3slot								
Body-worn	Fixed	128	824.2	15	25.87	-0.15	0.641	1.6
Body-worn	Fixed	189	836.4	15	25.92	-0.02	0.848	1.6
Body-worn	Fixed	251	848.8	15	25.93	-0.04	0.931	1.6
Test Mode: GPRS850-4slot								
Body-worn	Fixed	128	824.2	15	26.28	0.02	0.693	1.6
Body-worn	Fixed	189	836.4	15	26.36	0.02	0.914	1.6
Body-worn	Fixed	251	848.8	15	26.38	0.01	1.010	1.6
Body-front	Fixed	189	836.4	15	26.36	-0.04	0.620	1.6
Body-worn (With Headset #1)	Fixed	189	836.4	15	26.36	0.16	0.723	1.6
Body-worn (With Headset #2)	Fixed	189	836.4	15	26.36	-0.18	0.650	1.6
Body-worn (With Battery #2)	Fixed	251	848.8	15	26.38	-0.19	1.030	1.6
Body-worn (With Battery #3)	Fixed	251	848.8	15	26.38	-0.17	1.050	1.6
Body-worn (With Battery #4)	Fixed	251	848.8	15	26.38	-0.10	1.030	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225.								

SAR MEASUREMENT							
Ambient Temperature (°C) : 21.5 ±2				Relative Humidity (%): 52			
Liquid Temperature (°C) : 21.0 ±2				Depth of Liquid (cm):>15			
Product: GSM Mobile Phone							
Test Mode: PCS1900 <SIM 1>							
Test Position Head	Antenna Position	Frequency		Frame Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz				
Left-Cheek	Fixed	512	1850.2	21.38	-0.14	0.596	1.6
Left-Cheek	Fixed	661	1880.0	21.29	-0.06	0.852	1.6
Left-Cheek	Fixed	810	1909.8	21.29	-0.01	0.630	1.6
Left-Tilted	Fixed	661	1880.0	21.29	-0.13	0.319	1.6
Right-Cheek	Fixed	512	1850.2	21.38	-0.06	1.090	1.6
Right-Cheek	Fixed	661	1880.0	21.29	-0.19	1.210	1.6
Right-Cheek	Fixed	810	1909.8	21.29	-0.06	1.150	1.6
Right-Tilted	Fixed	661	1880.0	21.29	0.04	0.280	1.6
Test Mode: PCS1900 <SIM 2>							
Right-Cheek	Fixed	661	1880.0	21.28	0.05	1.150	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225.							

SAR MEASUREMENT								
Ambient Temperature (°C) : 21.5 ±2					Relative Humidity (%) : 52			
Liquid Temperature (°C) : 21.0 ±2					Depth of Liquid (cm):>15			
Product: GSM Mobile Phone								
Test Mode: GPRS1900-1slot								
Test Position Body	Antenna Position	Frequency		Separation Distance (mm)	Frame Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz					
Body-worn	Fixed	661	1880.0	15	21.53	-0.09	0.432	1.6
Test Mode: GPRS1900-2slot								
Body-worn	Fixed	661	1880.0	15	23.57	0.06	0.623	1.6
Test Mode: GPRS1900-3slot								
Body-worn	Fixed	661	1880.0	15	23.49	-0.05	0.619	1.6
Test Mode: GPRS1900-4slot								
Body-worn	Fixed	661	1880.0	15	23.75	-0.01	0.665	1.6
Body-front	Fixed	512	1850.2	15	23.74	-0.07	0.837	1.6
Body-front	Fixed	661	1880.0	15	23.75	-0.05	0.908	1.6
Body-front	Fixed	810	1909.8	15	24.03	-0.12	0.920	1.6
Body-front (With Headset #1)	Fixed	512	1850.2	15	23.74	-0.07	0.856	1.6
Body-front (With Headset #1)	Fixed	661	1880.0	15	23.75	0.05	0.927	1.6
Body-front (With Headset #1)	Fixed	810	1909.8	15	24.03	-0.03	0.984	1.6
Body-front (With Headset #2)	Fixed	661	1880.0	15	23.75	0.01	0.846	1.6
Body-front (With Headset #1 & Battery #2)	Fixed	810	1909.8	15	24.03	-0.09	0.941	1.6
Body-front (With Headset #1 & Battery #3)	Fixed	810	1909.8	15	24.03	0.03	0.881	1.6
Body-front (With Headset #1 & Battery #4)	Fixed	810	1909.8	15	24.03	-0.09	1.000	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 941225.								

SAR MEASUREMENT							
Ambient Temperature (°C): 21.5 ±2				Relative Humidity (%): 52			
Liquid Temperature (°C): 21.0 ±2				Depth of Liquid (cm):>15			
Product: Mobile Phone							
Test Mode: Bluetooth							
Test Position Head	Antenna Position	Frequency		EIRP (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz				
Left-Cheek	Fixed	00	2402	-1.08	0.15	0.0006	1.6
Left-Cheek	Fixed	38	2441	-2.03	--	--	1.6
Left-Cheek	Fixed	78	2480	-2.60	--	--	1.6
Left-Tilt	Fixed	00	2402	-1.08	--	--	1.6
Right-Cheek	Fixed	00	2402	-1.08	0.06	0.0001	1.6
Right-Cheek	Fixed	38	2441	-2.03	--	--	1.6
Right-Cheek	Fixed	78	2480	-2.60	--	--	1.6
Right-Tilt	Fixed	00	2402	-1.08	--	--	1.6
<p>Note 1: When the SAR procedures require multiple channels to be tested and the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required, refer to KDB 447498.</p> <p>Note 2: The Bluetooth SAR for position Left-Tilt has been tested , and the value is hardly detected, so it could be ignored.</p>							

SAR MEASUREMENT								
Ambient Temperature (°C): 21.5 ±2					Relative Humidity (%): 52			
Liquid Temperature (°C): 21.0 ±2					Depth of Liquid (cm):>15			
Product: Mobile Phone								
Test Mode: Bluetooth								
Test Position Body	Antenna Position	Frequency		Separation Distance (mm)	EIRP (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Limit (W/kg)
		Channel	MHz					
Body-worn	Fixed	00	2402	15	-1.08	0.12	0.004	1.6
Body-worn	Fixed	38	2441	15	-2.03	--	--	1.6
Body-worn	Fixed	78	2480	15	-2.60	--	--	1.6
Body-front (With Headset)	Fixed	00	2402	15	-1.08	0.09	0.0002	1.6
Body-worn (With Headset #1, With Battery #4)	Fixed	00	2402	15	-1.08	0.15	0.004	1.6
Note : When the SAR procedures require multiple channels to be tested and the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required, refer to KDB 447498.								

Appendix A. SAR System Validation Data

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

System Check Head 835MHz

DUT: Dipole 835 MHz D835V2; Type: D835V2

Communication System: CW; Communication System Band: D835(835.0MHz); Duty Cycle: 1:1; Frequency: 835 MHz; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.58$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section ; Input Power=250mW

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

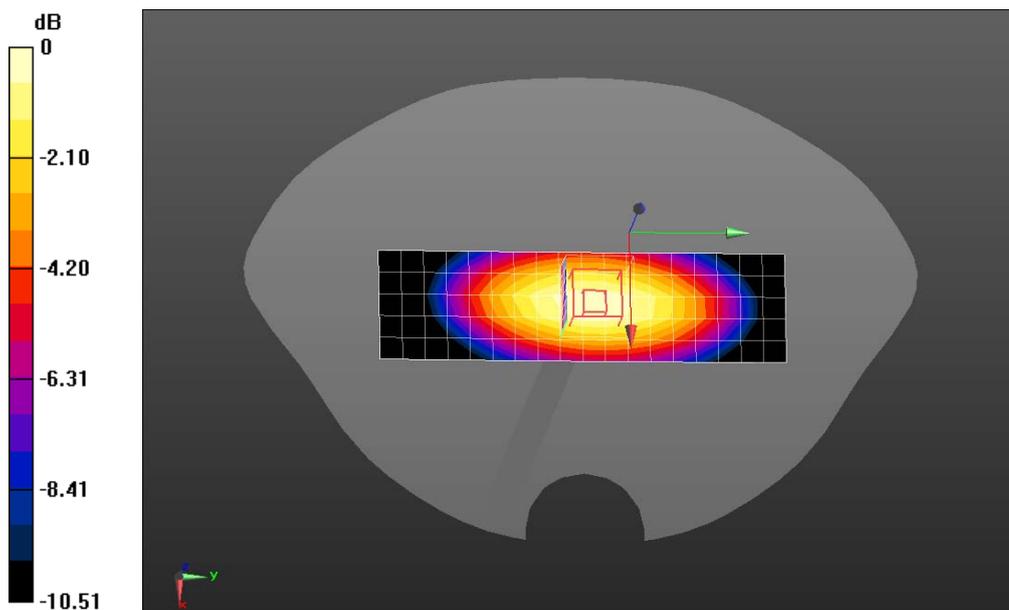
- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/System Check Head 835MHz/Area Scan (6x19x1): Measurement grid: dx=10mm, dy=10mm, Maximum value of SAR (measured) = 2.52 mW/g

Configuration/System Check Head 835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 53.708 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.676 mW/g

SAR(1 g) = 2.44 mW/g; SAR(10 g) = 1.59 mW/g Maximum value of SAR (measured) = 2.63 mW/g



0 dB = 2.63 mW/g = 8.40 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

System Check Body 835MHz

DUT: Dipole 835 MHz D835V2; Type: D835V2

Communication System: CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1;

Frequency: 835 MHz; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 53.64$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section ; Input Power=250mW

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

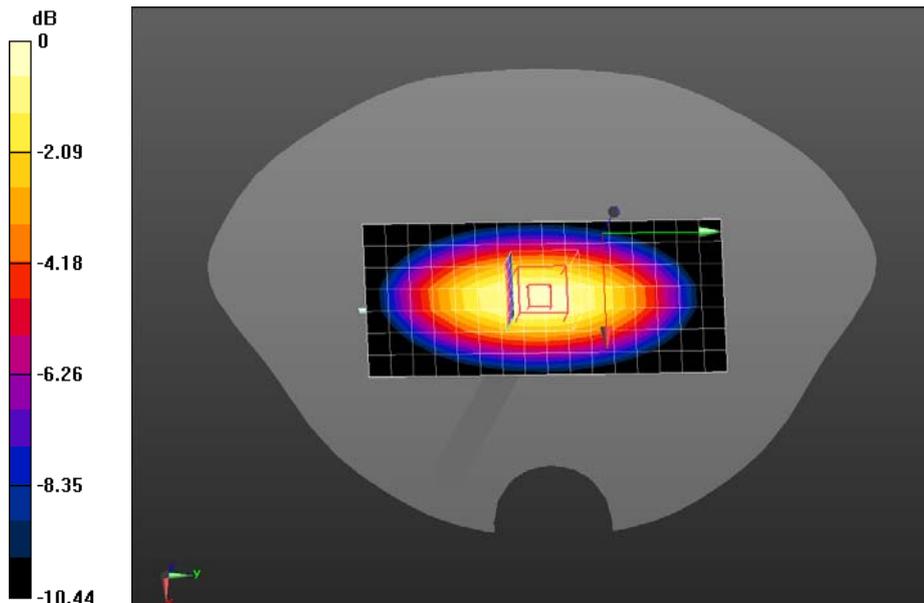
- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/System Check Body 835MHz/Area Scan (8x17x1): Measurement grid: dx=10mm, dy=10mm, Maximum value of SAR (measured) = 2.50 mW/g

Configuration/System Check Body 835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 52.573 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.778 mW/g

SAR(1 g) = 2.5 mW/g; SAR(10 g) = 1.63 mW/g Maximum value of SAR (measured) = 2.70 mW/g



0 dB = 2.70 mW/g = 8.63 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

System Check Head 1900MHz

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

Communication System: CW; Communication System Band: D1900(1900MHz); Duty Cycle: 1:1; Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.32$; $\rho = 1000$ kg/m³; Phantom section: Flat Section ; Input Power=250mW

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

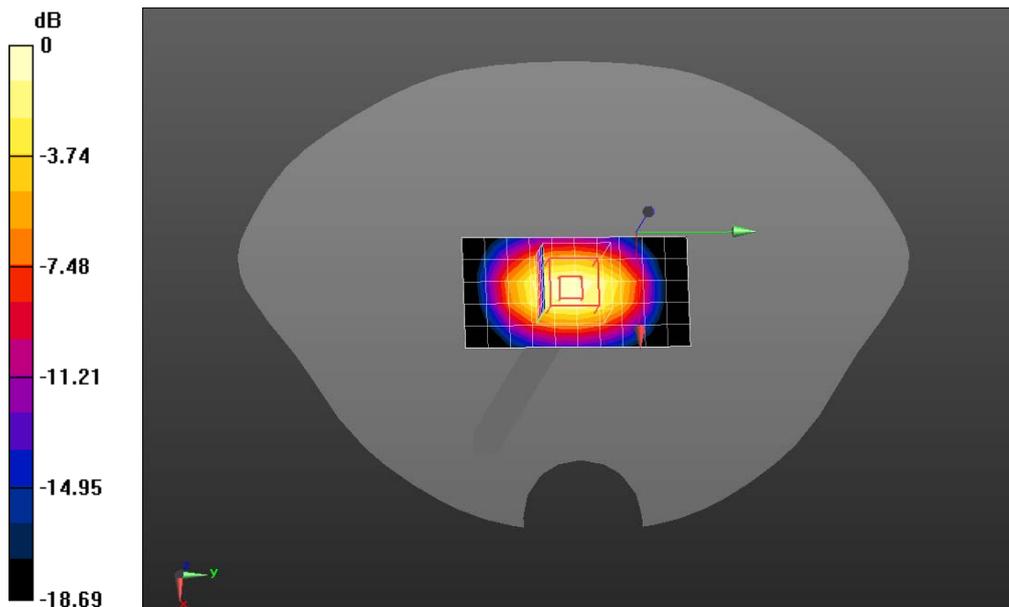
- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/System Check Head 1900MHz/Area Scan (6x11x1): Measurement grid: dx=10mm, dy=10mm, Maximum value of SAR (measured) = 10.0 mW/g

Configuration/System Check Head 1900MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 86.925 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 19.256 mW/g

SAR(1 g) = 9.93 mW/g; SAR(10 g) = 5.02 mW/g Maximum value of SAR (measured) = 11.2 mW/g



0 dB = 11.2 mW/g = 20.98 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

System Check Body 1900MHz

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

Communication System: CW; Communication System Band: D1900(1900MHz); Duty Cycle: 1:1; Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 54.07$; $\rho = 1000$ kg/m³; Phantom section: Flat Section ; Input Power=250mW

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

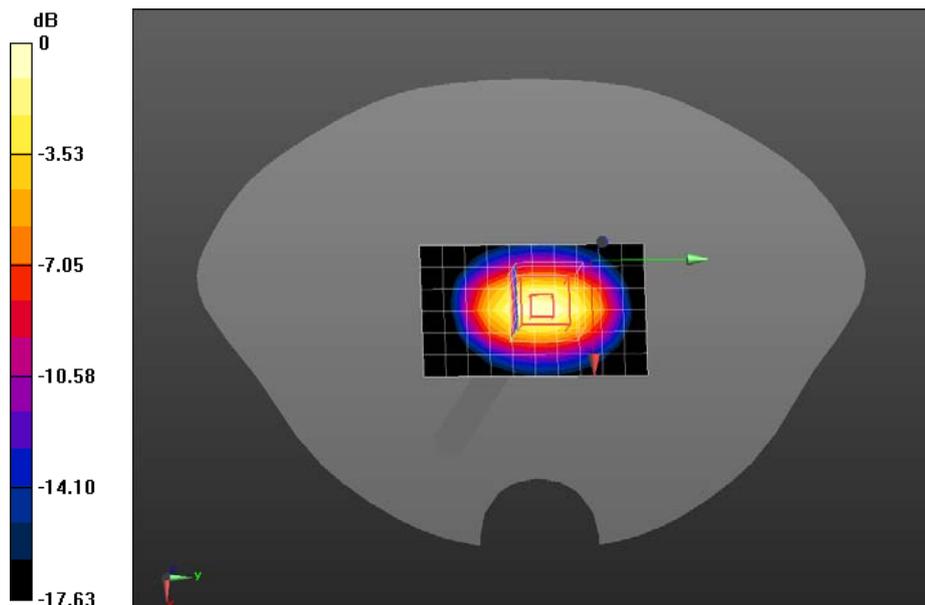
- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/System Check Body 1900MHz/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm, Maximum value of SAR (measured) = 11.6 mW/g

Configuration/System Check Body 1900MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 86.595 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 19.311 mW/g

SAR(1 g) = 10.4 mW/g; SAR(10 g) = 5.4 mW/g Maximum value of SAR (measured) = 11.8 mW/g



0 dB = 11.8 mW/g = 21.44 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

System Check Head 2450MHz

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

Communication System: CW; Communication System Band: D2450(2450MHz); Duty Cycle: 1:1; Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.8$ mho/m; $\epsilon_r = 39.09$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Input Power=250mW

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

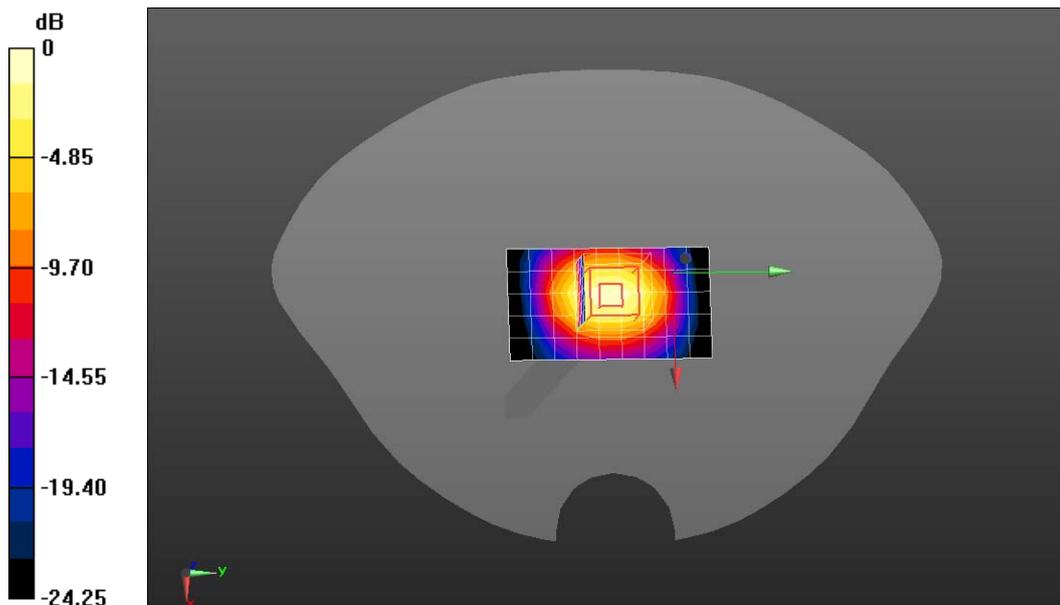
- Probe: EX3DV4 - SN3710; ConvF(7.25, 7.25, 7.25); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/System Check Head 2450MHz/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm, Maximum value of SAR (measured) = 13.1 mW/g

Configuration/System Check Head 2450MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 85.594 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 28.327 mW/g

SAR(1 g) = 12.6 mW/g; SAR(10 g) = 5.61 mW/g Maximum value of SAR (measured) = 14.3 mW/g



0 dB = 14.3 mW/g = 23.11 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

System Check Body 2450MHz

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

Communication System: CW; Communication System Band: D2450(2450MHz); Duty Cycle: 1:1; Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 52.38$; $\rho = 1000$ kg/m³; Phantom section: Flat Section ; Input Power=250mW

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

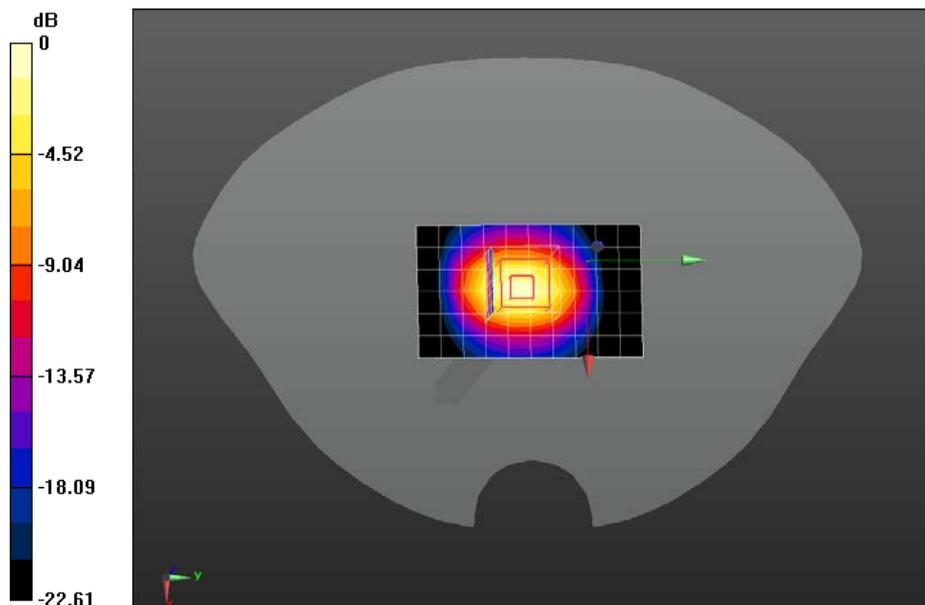
- Probe: EX3DV4 - SN3710; ConvF(6.98, 6.98, 6.98); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/System Check Body 2450MHz/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm, Maximum value of SAR (measured) = 13.3 mW/g

Configuration/System Check Body 2450MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 81.523 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 26.016 mW/g

SAR(1 g) = 12.3 mW/g; SAR(10 g) = 5.6 mW/g Maximum value of SAR (measured) = 14.2 mW/g



0 dB = 14.2 mW/g = 23.05 dB mW/g

Appendix B. SAR measurement Data

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Touch-Left

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.53$; $\rho = 1000$ kg/m³ ; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/GSM850 Mid Touch-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

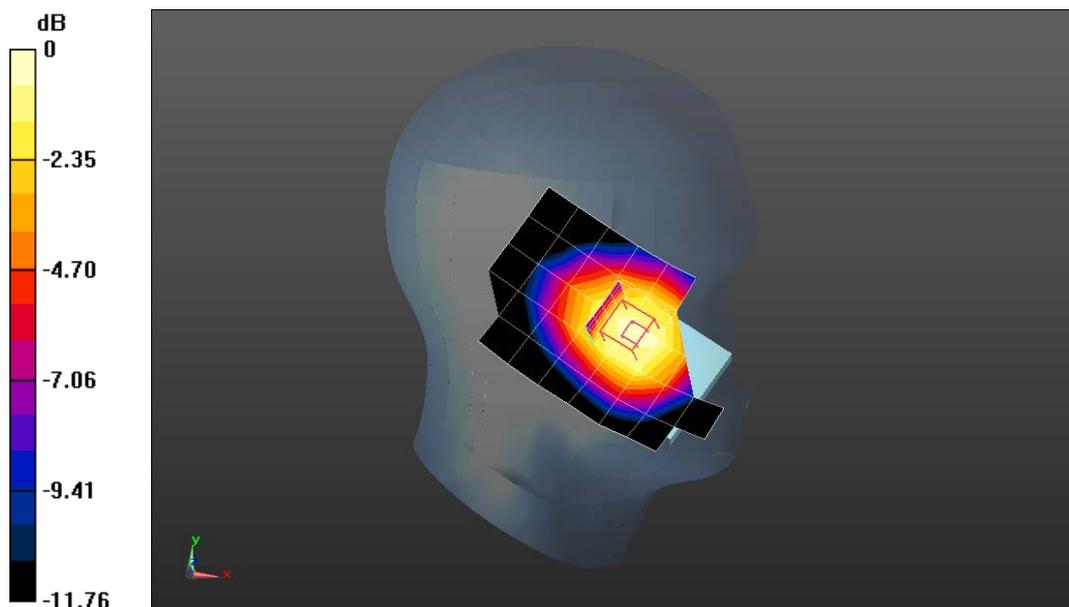
Maximum value of SAR (measured) = 0.315 mW/g

Configuration/GSM850 Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 8.085 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.393 mW/g

SAR(1 g) = 0.313 mW/g; SAR(10 g) = 0.234 mW/g Maximum value of SAR (measured) = 0.329 mW/g



0 dB = 0.329 mW/g = -9.66 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Tilt-Left

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.53$; $\rho = 1000$ kg/m³ ; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

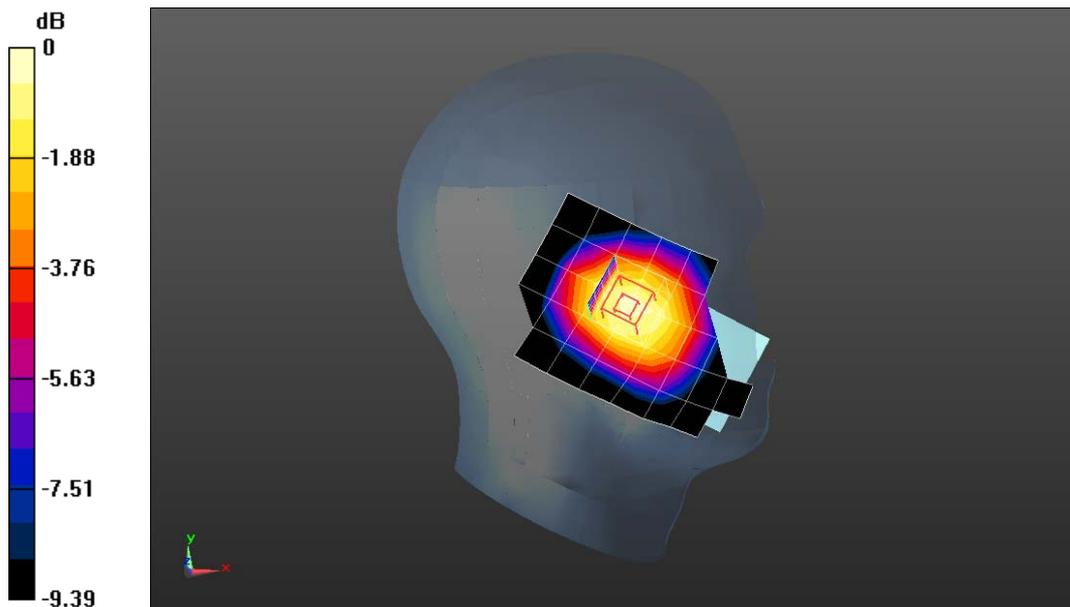
Configuration/GSM850 Mid Tilt-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.223 mW/g

Configuration/GSM850 Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 11.406 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.275 mW/g

SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.161 mW/g Maximum value of SAR (measured) = 0.227 mW/g



0 dB = 0.227 mW/g = -12.88 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Touch-Right

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.53$; $\rho = 1000$ kg/m³; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

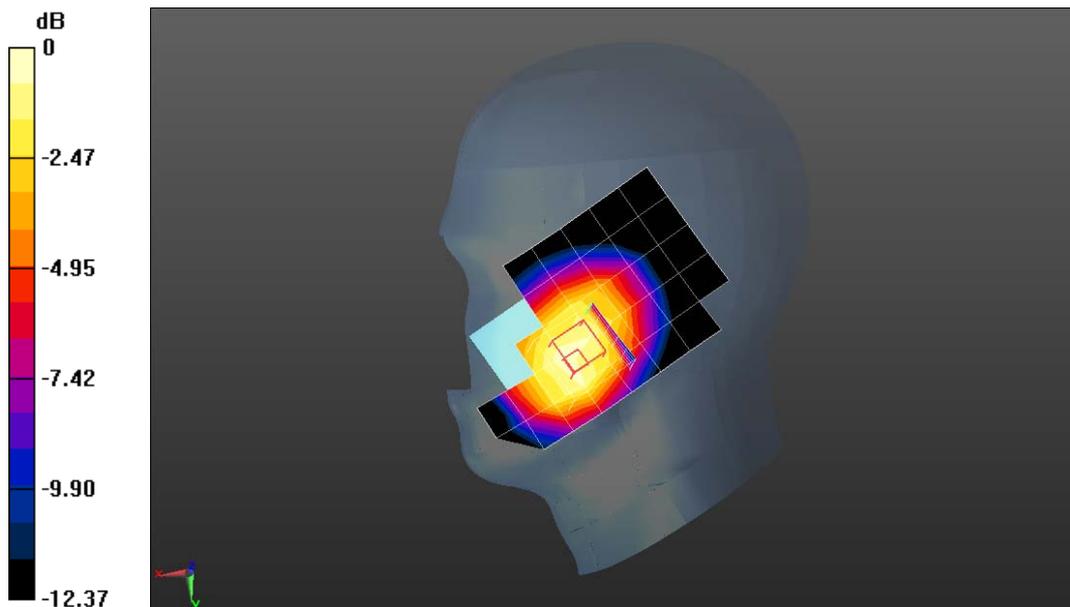
Configuration/GSM850 Mid Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/GSM850 Mid Touch-Right/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.041 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.409 mW/g

SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.203 mW/g Maximum value of SAR (measured) = 0.300 mW/g



0 dB = 0.300 mW/g = -10.46 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Tilt-Right

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.53$; $\rho = 1000$ kg/m³; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

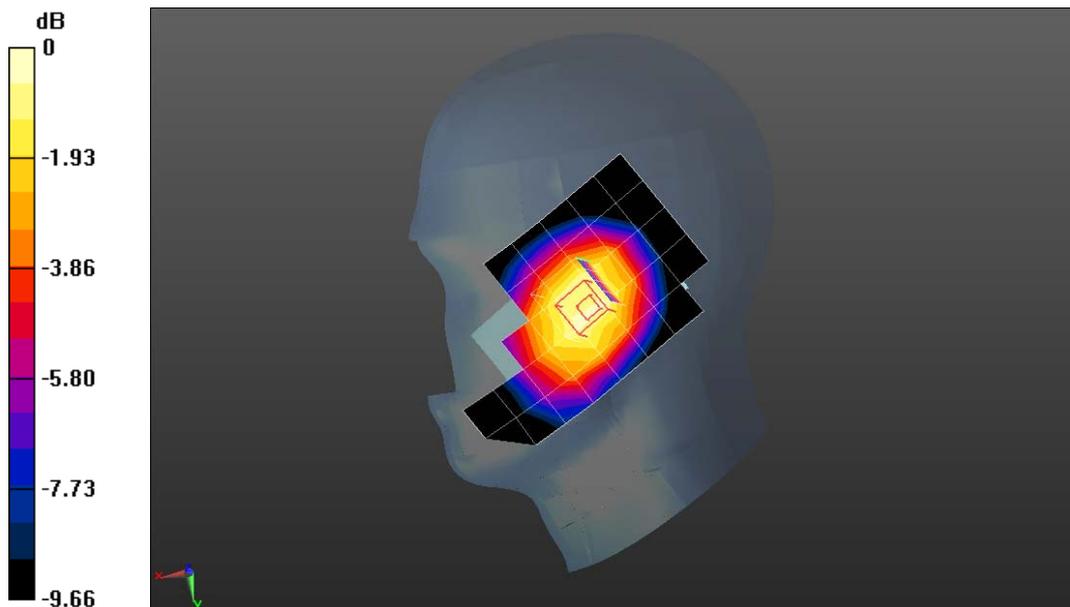
Configuration/GSM850 Mid Tilt-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.190 mW/g

Configuration/GSM850 Mid Tilt-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 9.478 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.253 mW/g

SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.148 mW/g Maximum value of SAR (measured) = 0.209 mW/g



0 dB = 0.209 mW/g = -13.60 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GSM850 Mid Touch-Left <SIM 2>

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.53$; $\rho = 1000$ kg/m³ ; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.18, 9.18, 9.18); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

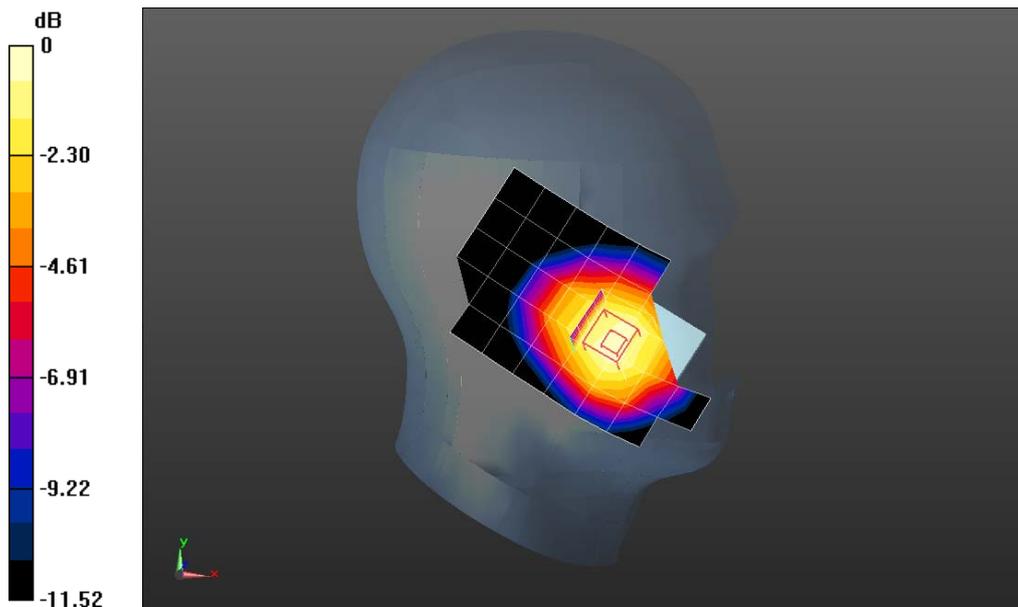
Configuration/GSM850 Mid Touch-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/GSM850 Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 5.536 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.373 mW/g

SAR(1 g) = 0.303 mW/g; SAR(10 g) = 0.229 mW/g Maximum value of SAR (measured) = 0.317 mW/g



0 dB = 0.317 mW/g = -9.98 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Back(1up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-1 Slot; Communication System Band: GSM850; Duty Cycle: 1:8.3; Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.61$; $\rho = 1000$ kg/m³; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

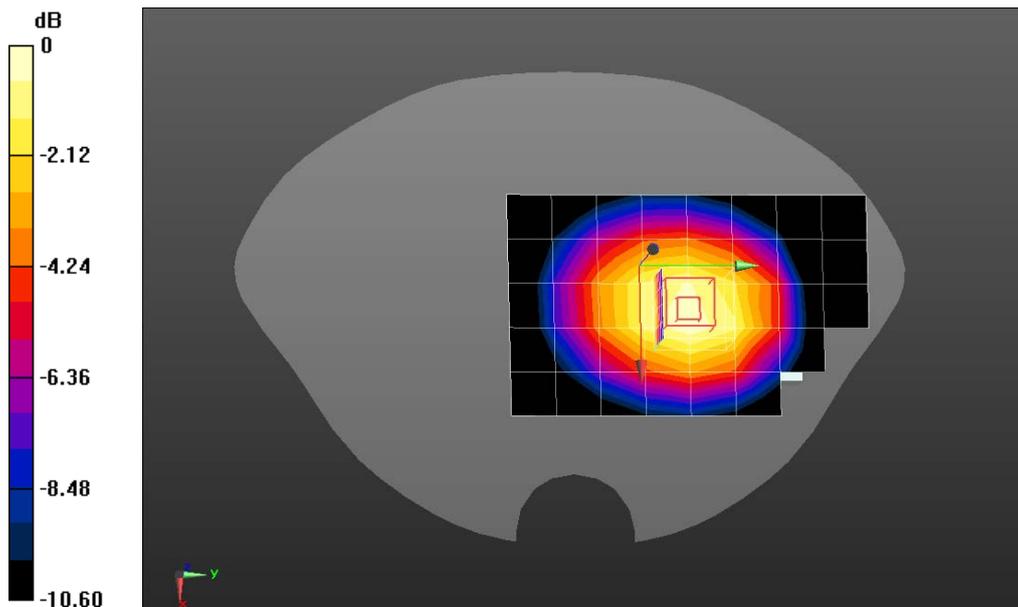
Configuration/GSM850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.481 mW/g

Configuration/GSM850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 12.166 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.639 mW/g

SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.340 mW/g Maximum value of SAR (measured) = 0.503 mW/g



0 dB = 0.503 mW/g = -5.97 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Back(2up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: GSM850; Duty Cycle: 1:4.2 ;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.61$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

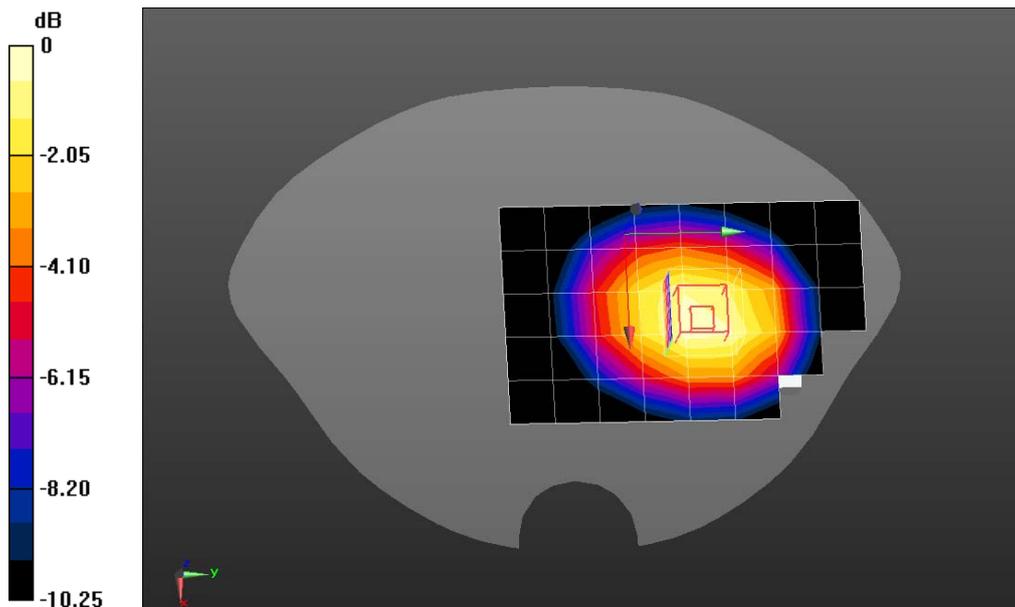
Configuration/GPRS850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 12.407 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.040 mW/g

SAR(1 g) = 0.775 mW/g; SAR(10 g) = 0.553 mW/g Maximum value of SAR (measured) = 0.822 mW/g



0 dB = 0.822 mW/g = -1.70 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 Low Body-Back(3up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.8 ;
 Frequency: 824.2 MHz; Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 53.74$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

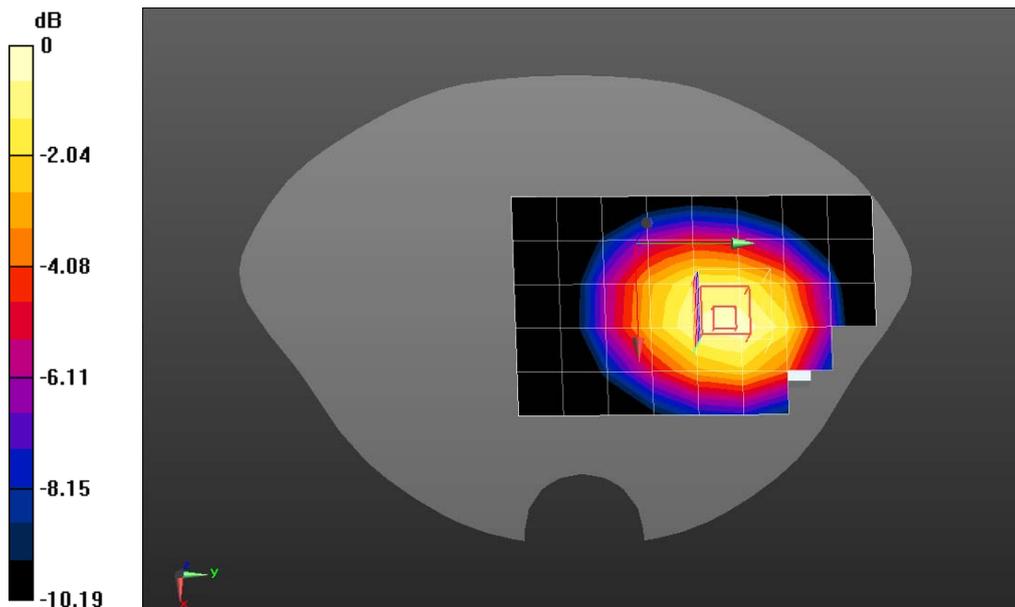
Configuration/GPRS850 Low Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.656 mW/g

Configuration/GPRS850 Low Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 9.594 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.869 mW/g

SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.458 mW/g Maximum value of SAR (measured) = 0.680 mW/g



0 dB = 0.680 mW/g = -3.35 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Back(3up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.8 ;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.61$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

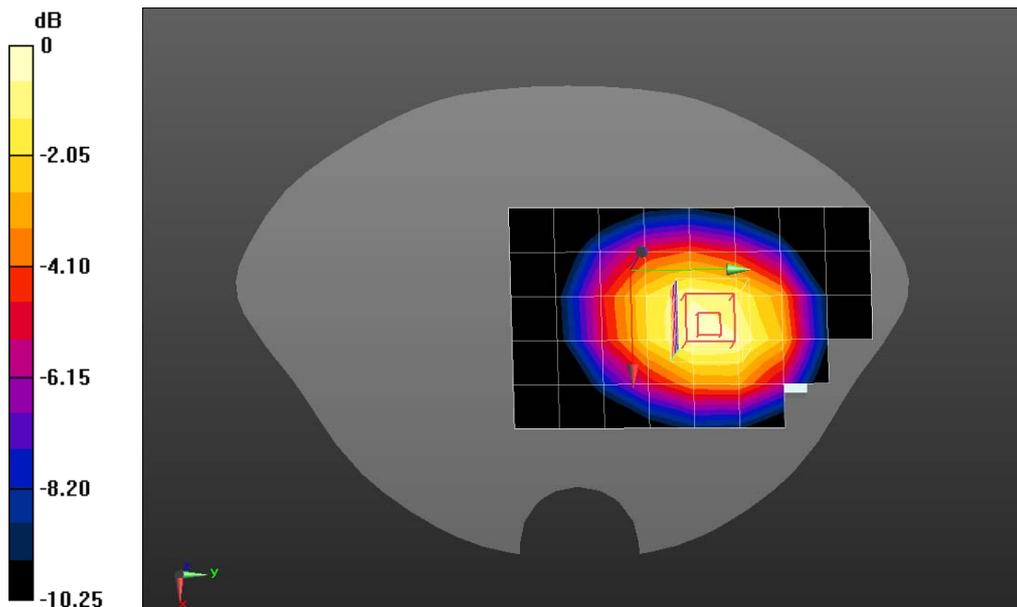
Configuration/GPRS850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.830 mW/g

Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 12.845 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.170 mW/g

SAR(1 g) = 0.848 mW/g; SAR(10 g) = 0.603 mW/g Maximum value of SAR (measured) = 0.898 mW/g



0 dB = 0.898 mW/g = -0.93 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 High Body-Back(3up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.8 ;
 Frequency: 848.8 MHz; Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.49$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

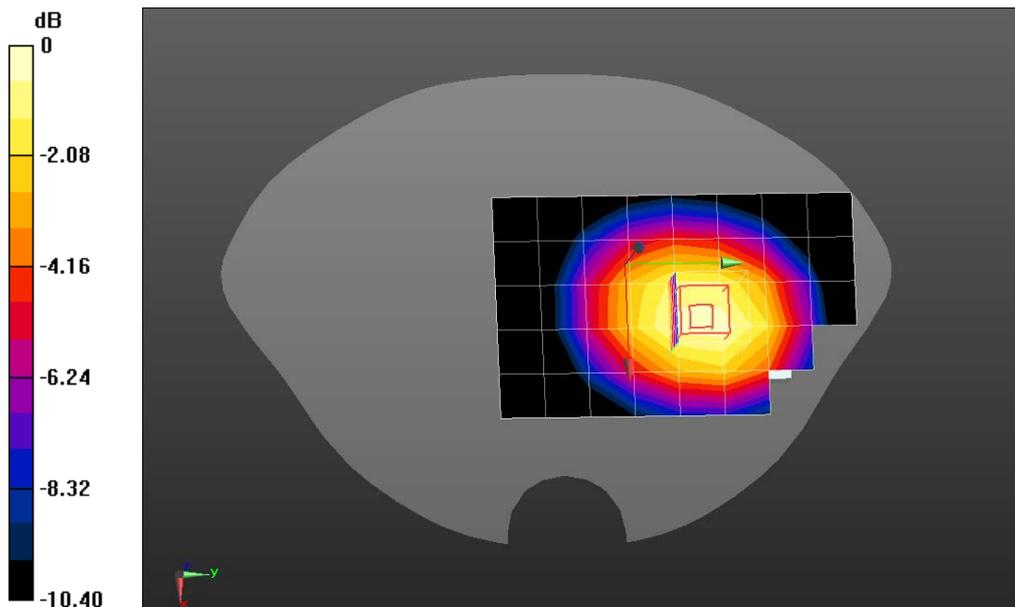
Configuration/GPRS850 High Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.943 mW/g

Configuration/GPRS850 High Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 11.852 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.258 mW/g

SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.665 mW/g Maximum value of SAR (measured) = 0.990 mW/g



0 dB = 0.990 mW/g = -0.09 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 Low Body-Back(4up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1 ;
 Frequency: 824.2 MHz; Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 53.74$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

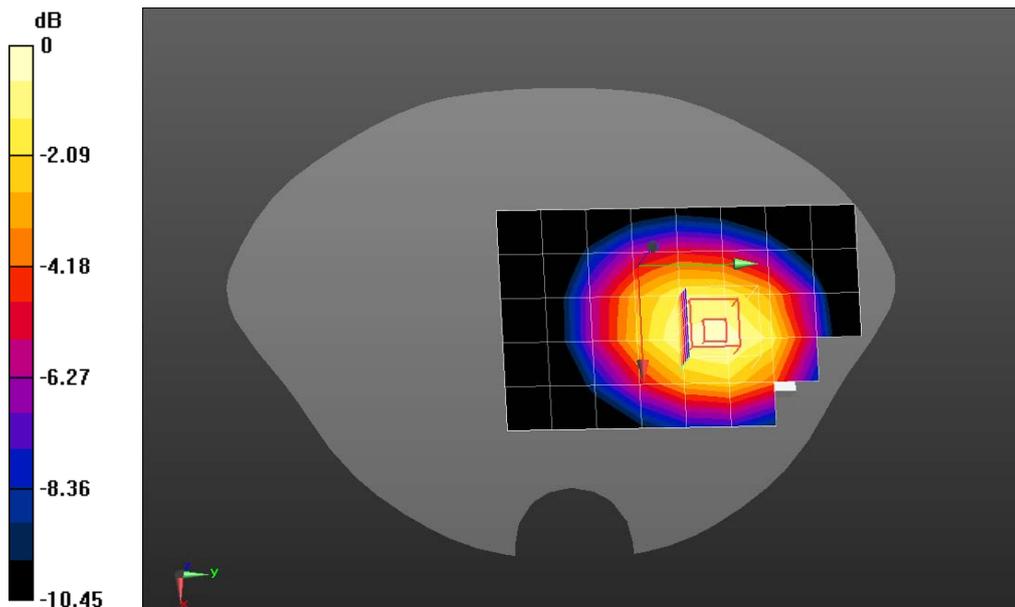
Configuration/GPRS850 Low Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.707 mW/g

Configuration/GPRS850 Low Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 9.655 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.927 mW/g

SAR(1 g) = 0.693 mW/g; SAR(10 g) = 0.496 mW/g Maximum value of SAR (measured) = 0.735 mW/g



0 dB = 0.735 mW/g = -2.67 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Back(4up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1 ;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.61$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

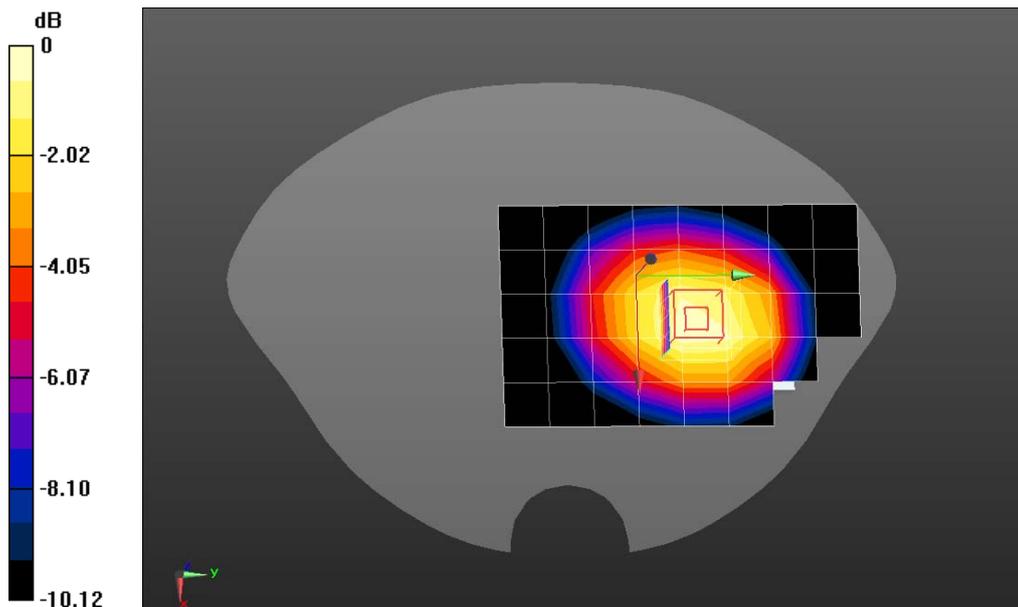
Configuration/GPRS850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.892 mW/g

Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 13.429 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.205 mW/g

SAR(1 g) = 0.914 mW/g; SAR(10 g) = 0.658 mW/g Maximum value of SAR (measured) = 0.962 mW/g



0 dB = 0.962 mW/g = -0.34 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 High Body-Back(4up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1 ;
 Frequency: 848.8 MHz; Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.49$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

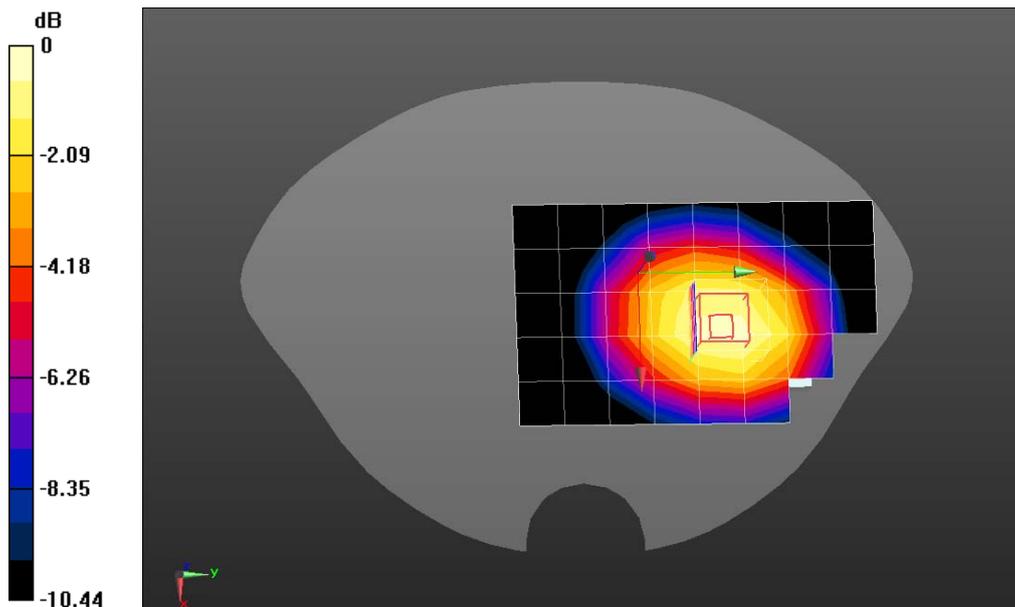
Configuration/GPRS850 High Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/GPRS850 High Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 12.318 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.357 mW/g

SAR(1 g) = 1.010 mW/g; SAR(10 g) = 0.722 mW/g Maximum value of SAR (measured) = 1.07 mW/g



0 dB = 1.07 mW/g = 0.59 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Front(4up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1 ;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.61$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

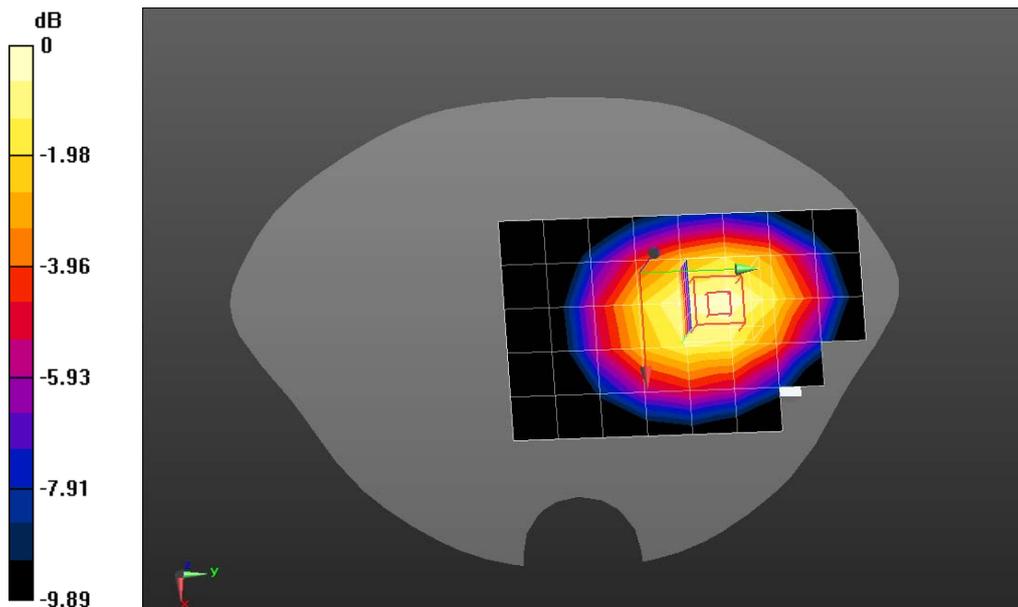
Configuration/GPRS850 Mid Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.645 mW/g

Configuration/GPRS850 Mid Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 9.940 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.829 mW/g

SAR(1 g) = 0.620 mW/g; SAR(10 g) = 0.447 mW/g Maximum value of SAR (measured) = 0.656 mW/g



0 dB = 0.656 mW/g = -3.66 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Back(4up)(with headset #1)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1 ;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.61$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

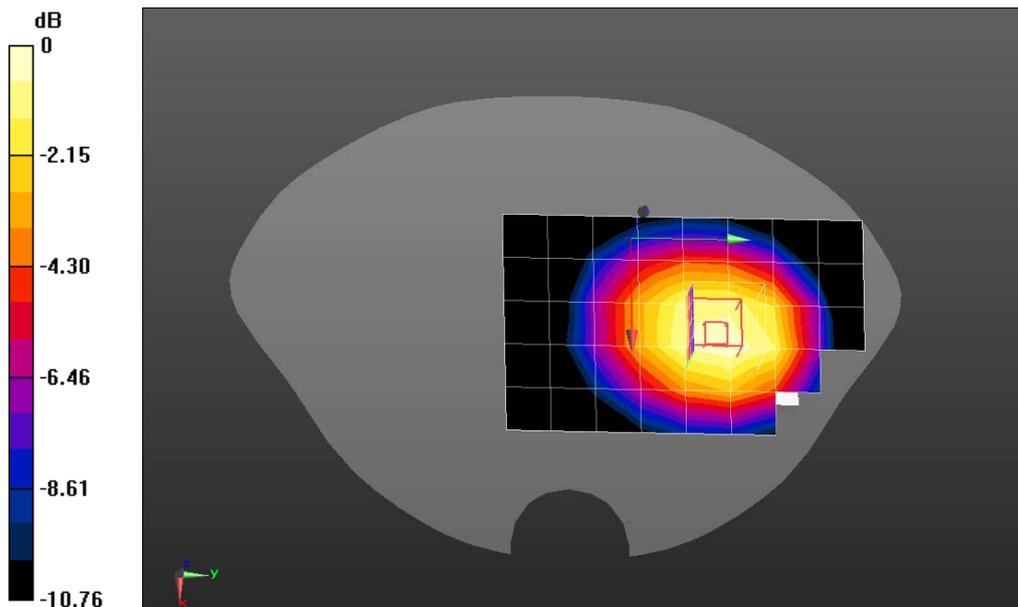
Configuration/GPRS850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.746 mW/g

Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 9.276 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.969 mW/g

SAR(1 g) = 0.723 mW/g; SAR(10 g) = 0.511 mW/g Maximum value of SAR (measured) = 0.766 mW/g



0 dB = 0.766 mW/g = -2.32 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Back(4up)(with headset #2)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1 ;
 Frequency: 836.4 MHz; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.61$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

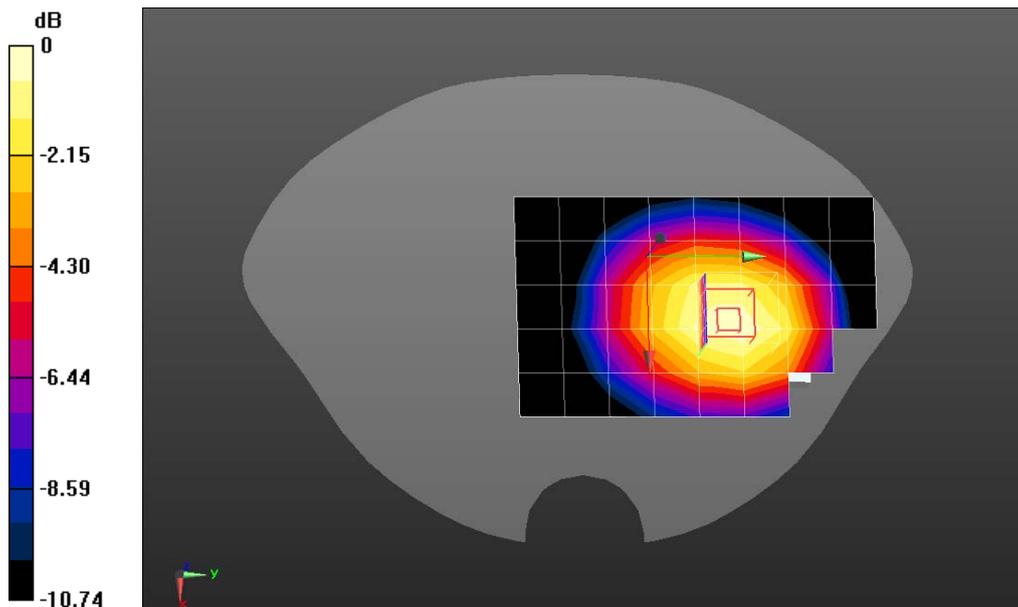
Configuration/GPRS850 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.675 mW/g

Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 9.851 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.888 mW/g

SAR(1 g) = 0.650 mW/g; SAR(10 g) = 0.461 mW/g Maximum value of SAR (measured) = 0.688 mW/g



0 dB = 0.688 mW/g = -3.25 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 High Body-Back(4up)(with battery #2)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1 ;
 Frequency: 848.8 MHz; Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.49$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

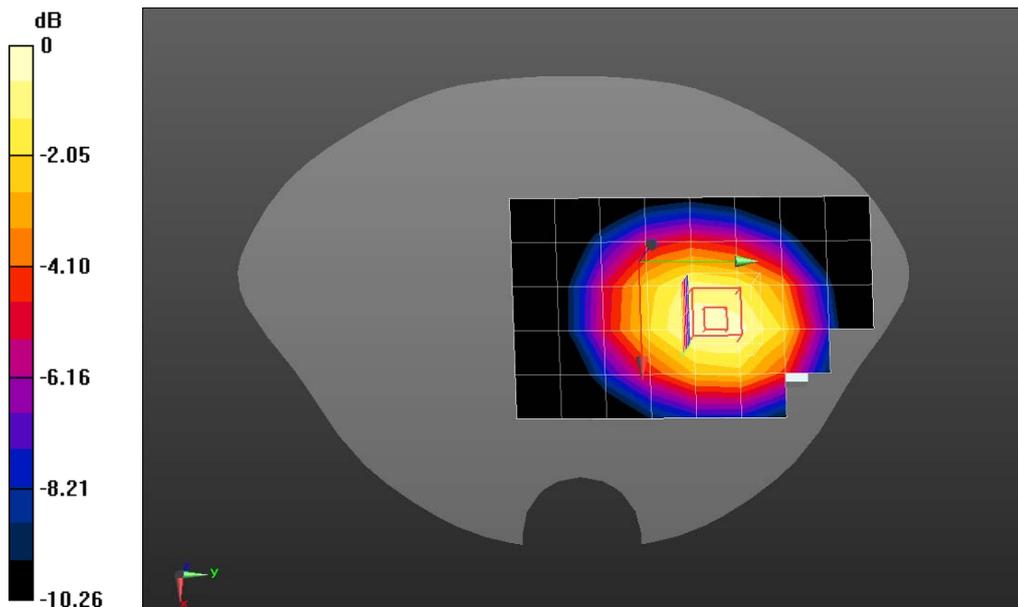
Configuration/GPRS850 High Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/GPRS850 High Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 13.473 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.373 mW/g

SAR(1 g) = 1.030 mW/g; SAR(10 g) = 0.734 mW/g Maximum value of SAR (measured) = 1.09 mW/g



0 dB = 1.09 mW/g = 0.75 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 High Body-Back(4up)(with battery #3)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1 ;
 Frequency: 848.8 MHz; Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.49$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

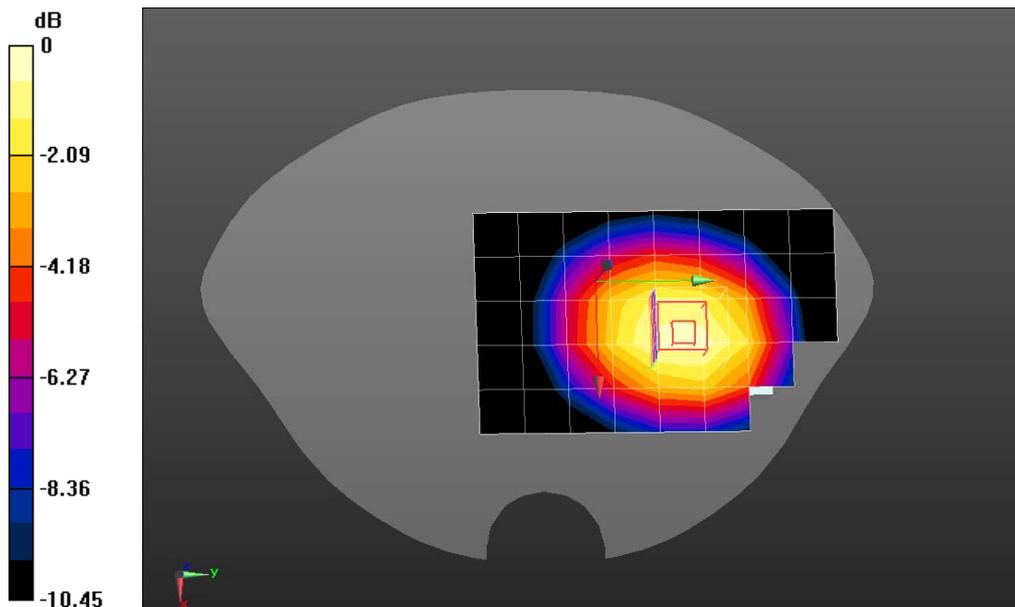
Configuration/GPRS850 High Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/GPRS850 High Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 12.982 V/m; Power Drift = -0.17 dB

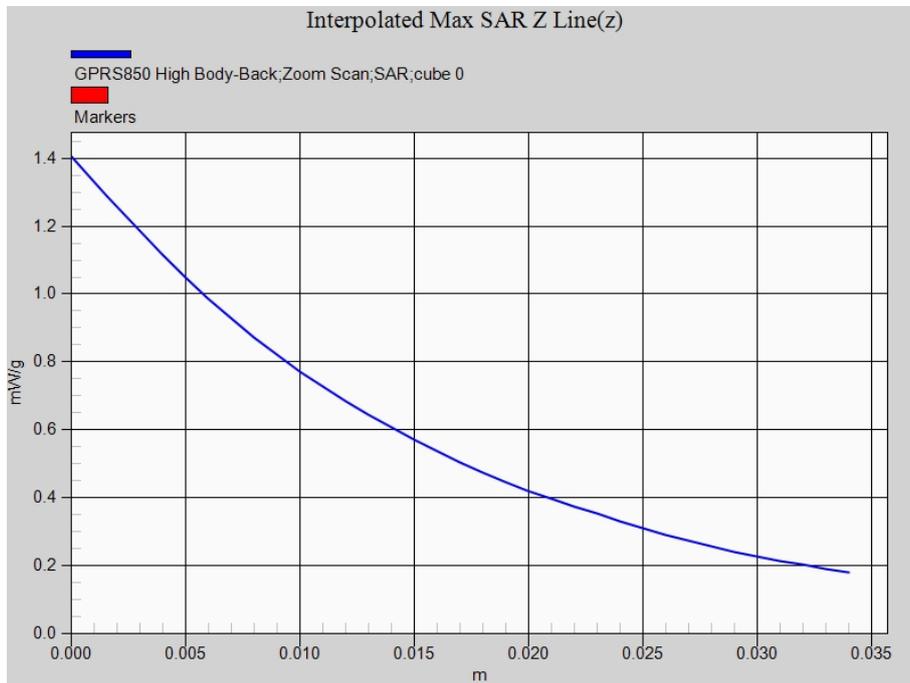
Peak SAR (extrapolated) = 1.408 mW/g

SAR(1 g) = 1.050 mW/g; SAR(10 g) = 0.748 mW/g Maximum value of SAR (measured) = 1.12 mW/g



0 dB = 1.12 mW/g = 0.98 dB mW/g

Z-Axis Plot



Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS850 High Body-Back(4up)(with battery #4)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1 ;
 Frequency: 848.8 MHz; Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.98$ mho/m; $\epsilon_r = 53.49$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.13, 9.13, 9.13); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

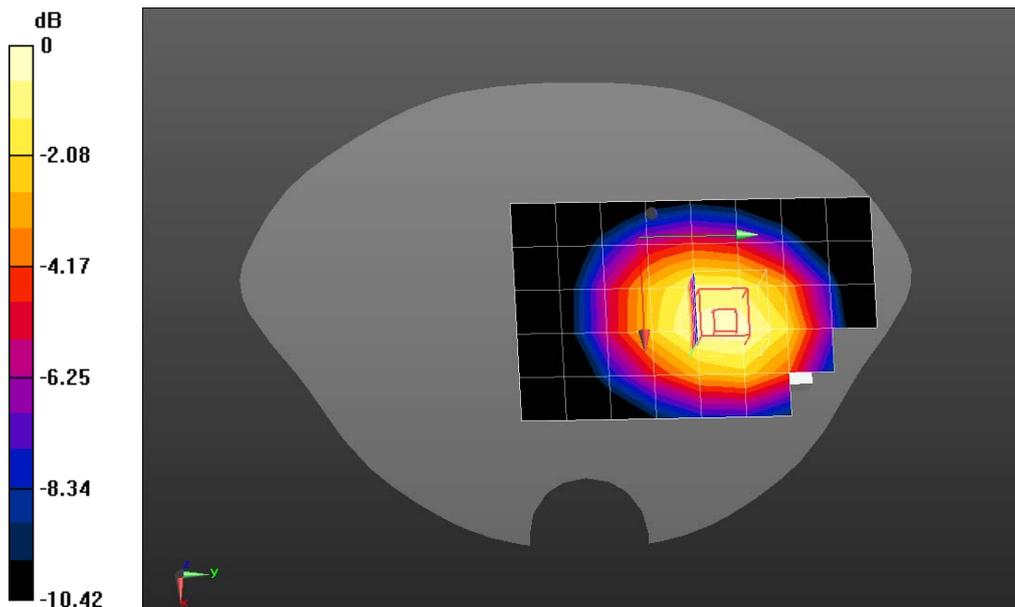
Configuration/GPRS850 High Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/GPRS850 High Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 12.674 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.381 mW/g

SAR(1 g) = 1.030 mW/g; SAR(10 g) = 0.736 mW/g Maximum value of SAR (measured) = 1.10 mW/g



0 dB = 1.10 mW/g = 0.83 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

PCS 1900 Low Touch-Left

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1850.2 MHz; Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.52$; $\rho = 1000$ kg/m³ ; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

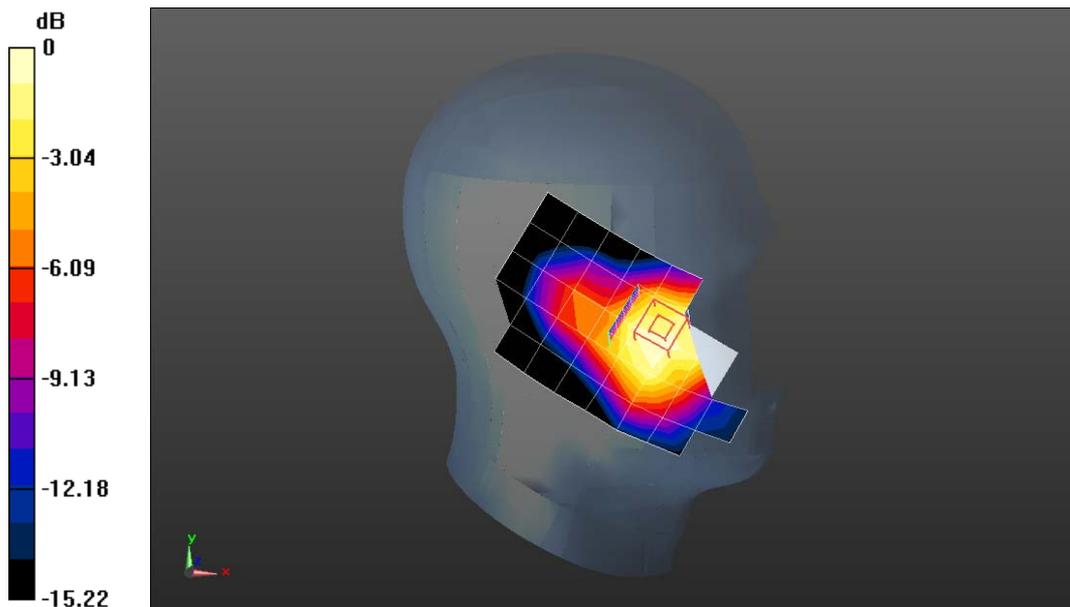
Configuration/PCS 1900 Low Touch-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.577 mW/g

Configuration/PCS 1900 Low Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 9.508 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.891 mW/g

SAR(1 g) = 0.596 mW/g; SAR(10 g) = 0.377 mW/g Maximum value of SAR (measured) = 0.635 mW/g



0 dB = 0.635 mW/g = -3.94 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

PCS 1900 Mid Touch-Left

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.38$; $\rho = 1000$ kg/m³; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

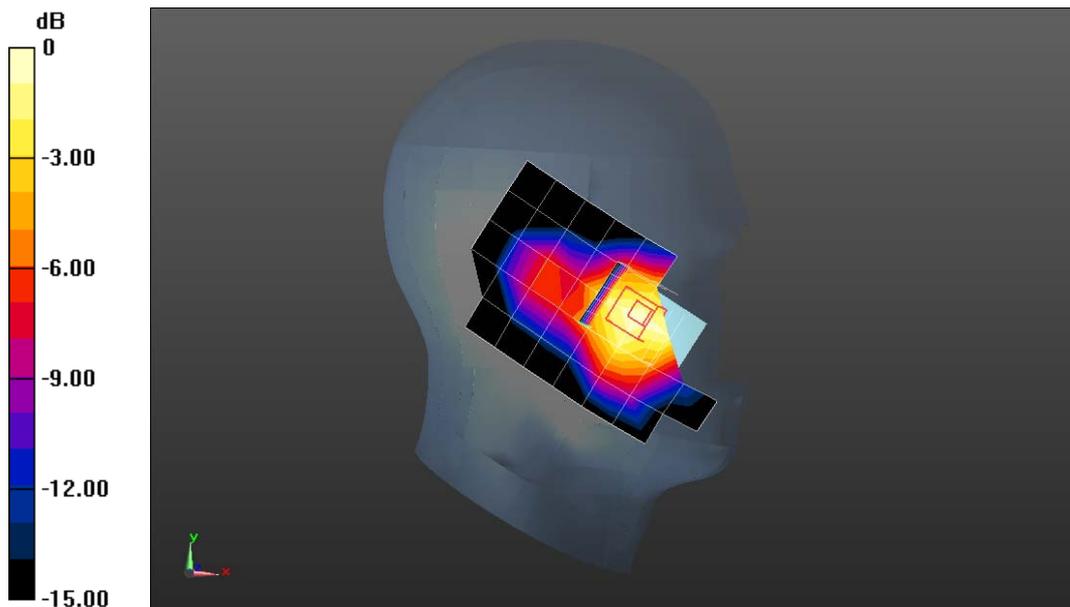
Configuration/PCS 1900 Mid Touch-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.902 mW/g

Configuration/PCS 1900 Mid Touch-Left/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 10.759 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.348 mW/g

SAR(1 g) = 0.852 mW/g; SAR(10 g) = 0.527 mW/g Maximum value of SAR (measured) = 0.900 mW/g



0 dB = 0.900 mW/g = -0.92 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

PCS 1900 High Touch-Left

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.26$; $\rho = 1000$ kg/m³; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

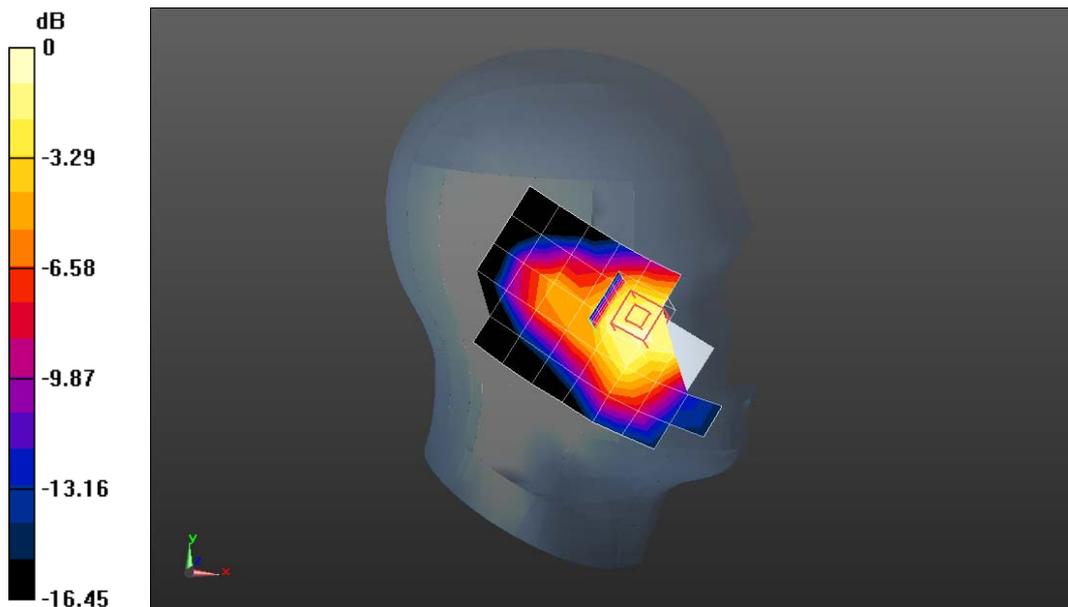
Configuration/PCS 1900 High Touch-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.566 mW/g

Configuration/PCS 1900 High Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 11.070 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.985 mW/g

SAR(1 g) = 0.630 mW/g; SAR(10 g) = 0.381 mW/g Maximum value of SAR (measured) = 0.668 mW/g



0 dB = 0.668 mW/g = -3.50 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

PCS 1900 Mid Tilt-Left

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.38$; $\rho = 1000$ kg/m³; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

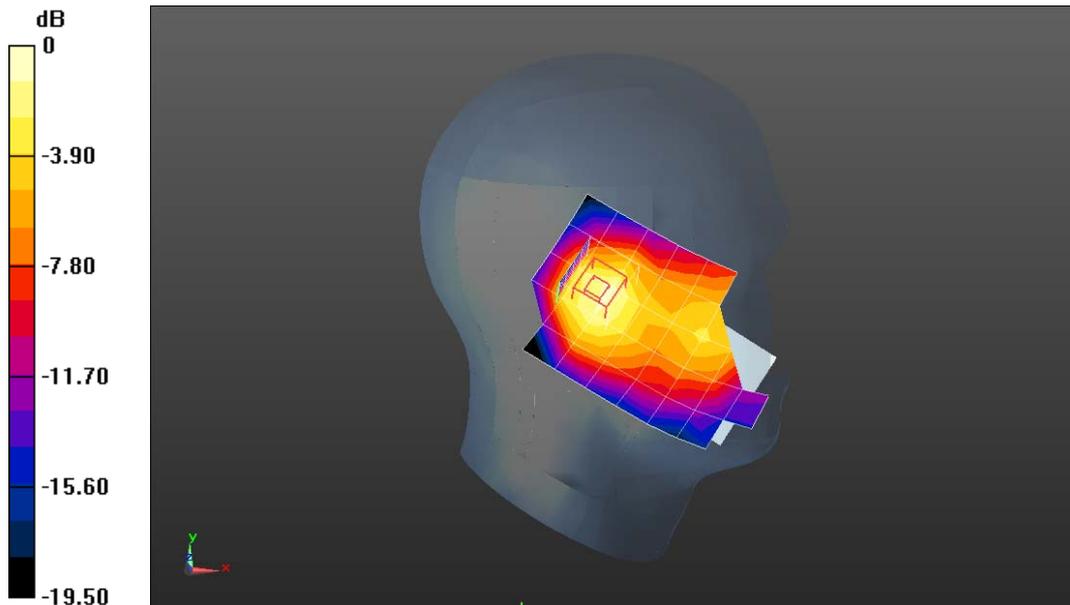
Configuration/PCS 1900 Mid Tilt-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.294 mW/g

Configuration/PCS 1900 Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 15.367 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.515 mW/g

SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.187 mW/g Maximum value of SAR (measured) = 0.344 mW/g



0 dB = 0.344 mW/g = -9.27 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

PCS 1900 Low Touch-Right

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1850.2 MHz; Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.52$; $\rho = 1000$ kg/m³; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/PCS 1900 Low Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

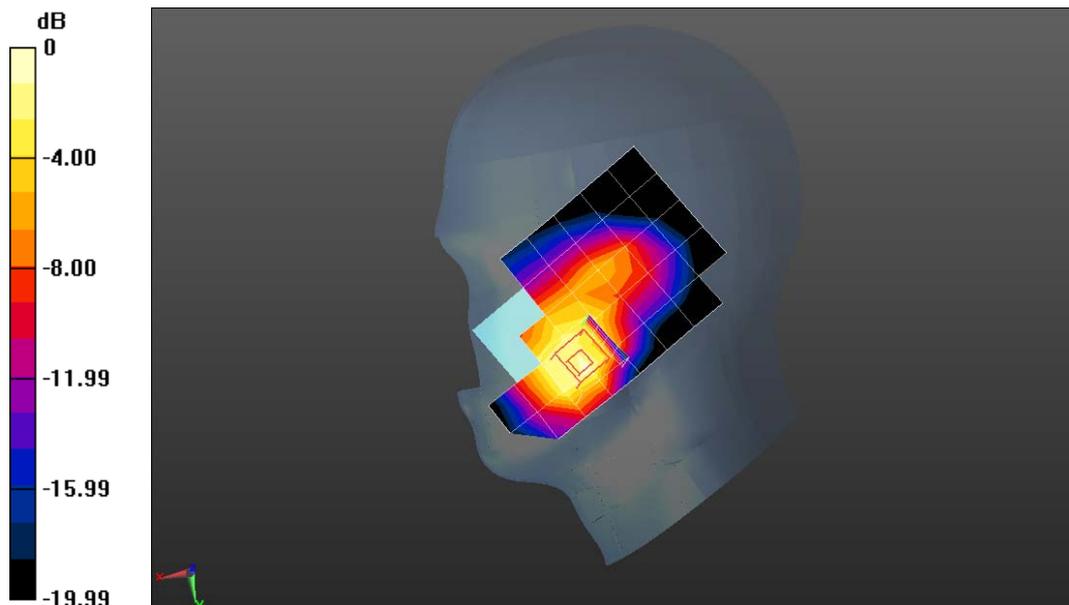
Maximum value of SAR (measured) = 0.972 mW/g

Configuration/PCS 1900 Low Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 9.067 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.782 mW/g

SAR(1 g) = 1.090 mW/g; SAR(10 g) = 0.629 mW/g Maximum value of SAR (measured) = 1.20 mW/g



0 dB = 1.20 mW/g = 1.58 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

PCS 1900 Mid Touch-Right

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.38$; $\rho = 1000$ kg/m³; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

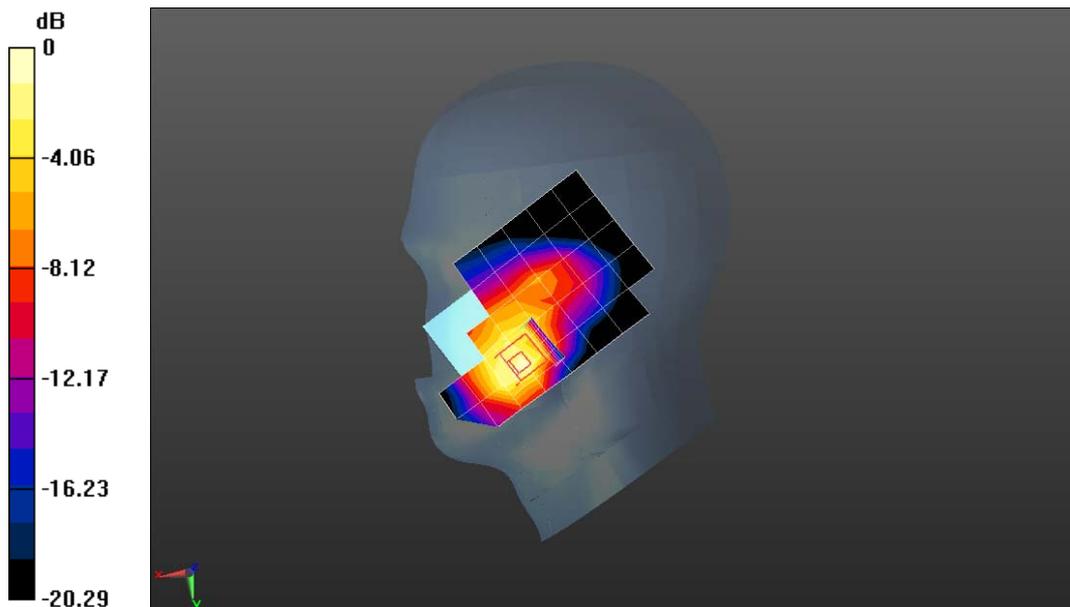
Configuration/PCS 1900 Mid Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/PCS 1900 Mid Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.066 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 2.008 mW/g

SAR(1 g) = 1.210 mW/g; SAR(10 g) = 0.687 mW/g Maximum value of SAR (measured) = 1.32 mW/g



0 dB = 1.32 mW/g = 2.41 dB mW/g

Z-Axis Plot



Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

PCS 1900 High Touch-Right

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.26$; $\rho = 1000$ kg/m³; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

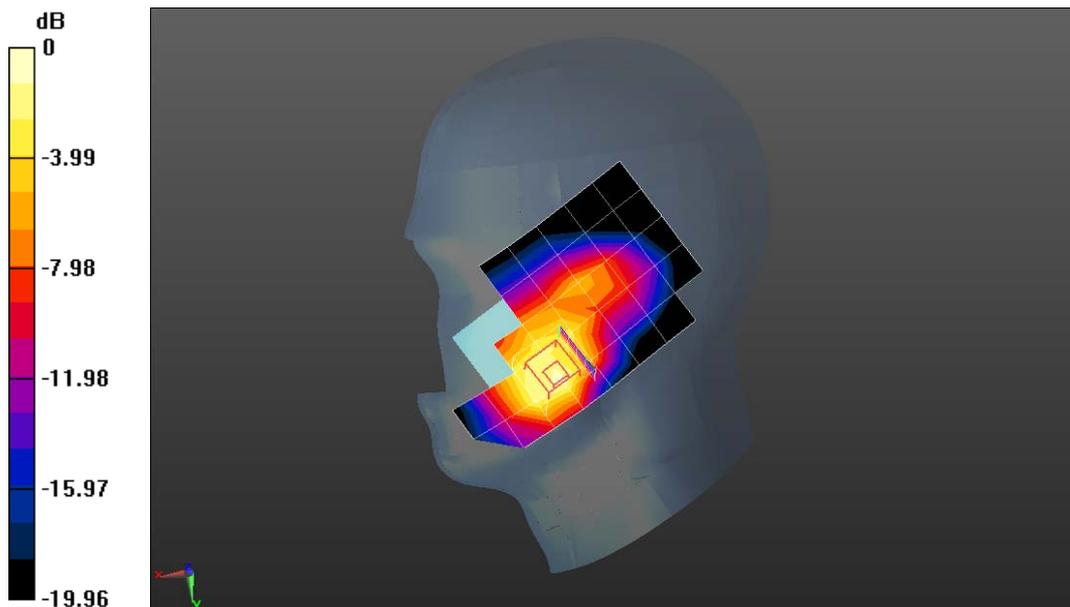
Configuration/PCS 1900 High Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/PCS 1900 High Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 9.775 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.930 mW/g

SAR(1 g) = 1.150 mW/g; SAR(10 g) = 0.654 mW/g Maximum value of SAR (measured) = 1.27 mW/g



0 dB = 1.27 mW/g = 2.08 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

PCS 1900 Mid Tilt-Right

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.38$; $\rho = 1000$ kg/m³; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

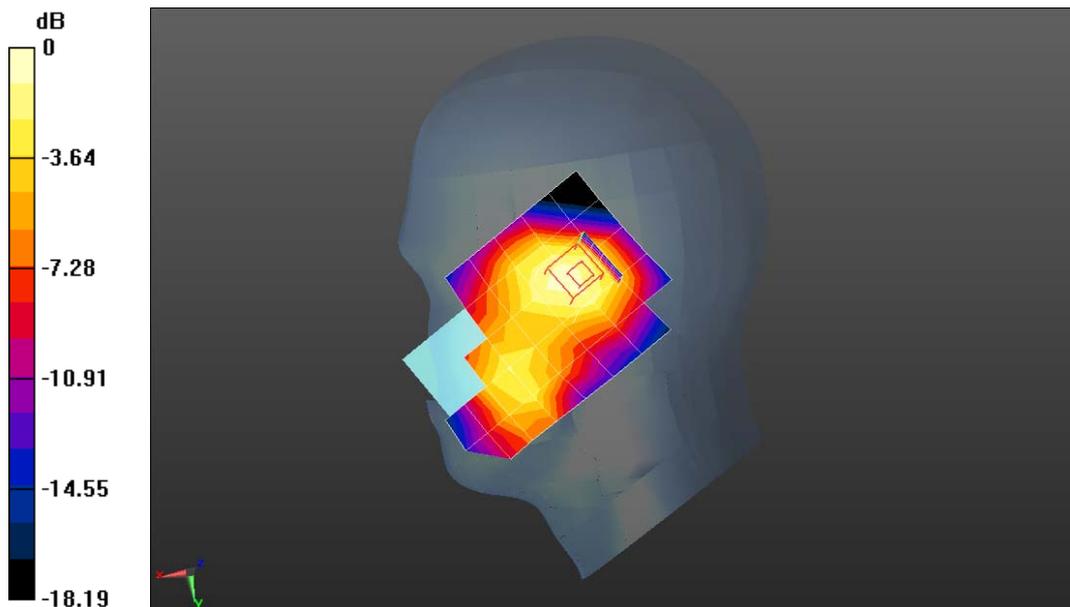
Configuration/PCS 1900 Mid Tilt-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.288 mW/g

Configuration/PCS 1900 Mid Tilt-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 14.140 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.449 mW/g

SAR(1 g) = 0.280 mW/g; SAR(10 g) = 0.172 mW/g Maximum value of SAR (measured) = 0.300 mW/g



0 dB = 0.300 mW/g = -10.46 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

PCS 1900 Mid Touch-Right <SIM 2>

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.38$; $\rho = 1000$ kg/m³; Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(8.16, 8.16, 8.16); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

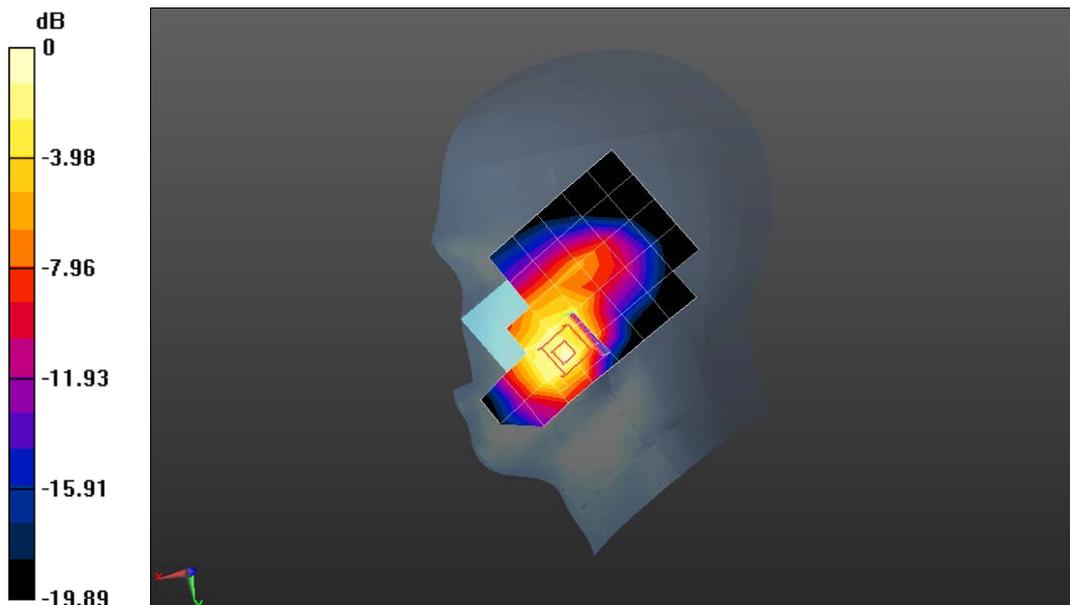
Configuration/PCS 1900 Mid Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 1.07 mW/g

Configuration/PCS 1900 Mid Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 8.151 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.884 mW/g

SAR(1 g) = 1.150 mW/g; SAR(10 g) = 0.660 mW/g Maximum value of SAR (measured) = 1.26 mW/g



0 dB = 1.26 mW/g = 2.01 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Back(1up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-1 Slot; Communication System Band: PCS1900; Duty Cycle: 1:8.3; Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 54.13$; $\rho = 1000$ kg/m³; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

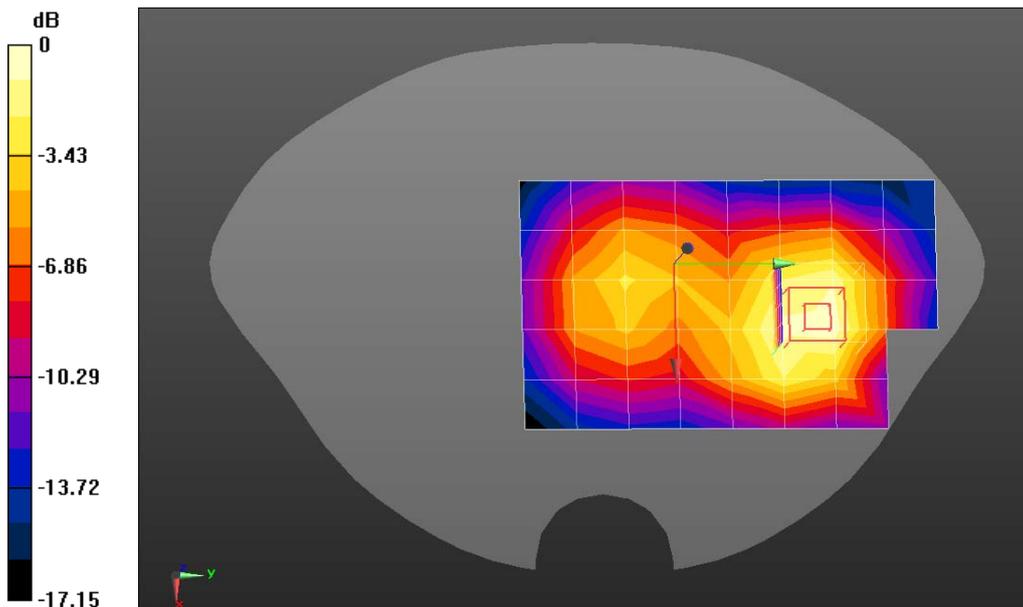
Configuration/GSM1900 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.417 mW/g

Configuration/GSM1900 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 11.522 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.708 mW/g

SAR(1 g) = 0.432 mW/g; SAR(10 g) = 0.264 mW/g Maximum value of SAR (measured) = 0.461 mW/g



0 dB = 0.461 mW/g = -6.73 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Back(2up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;
 Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 54.13$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

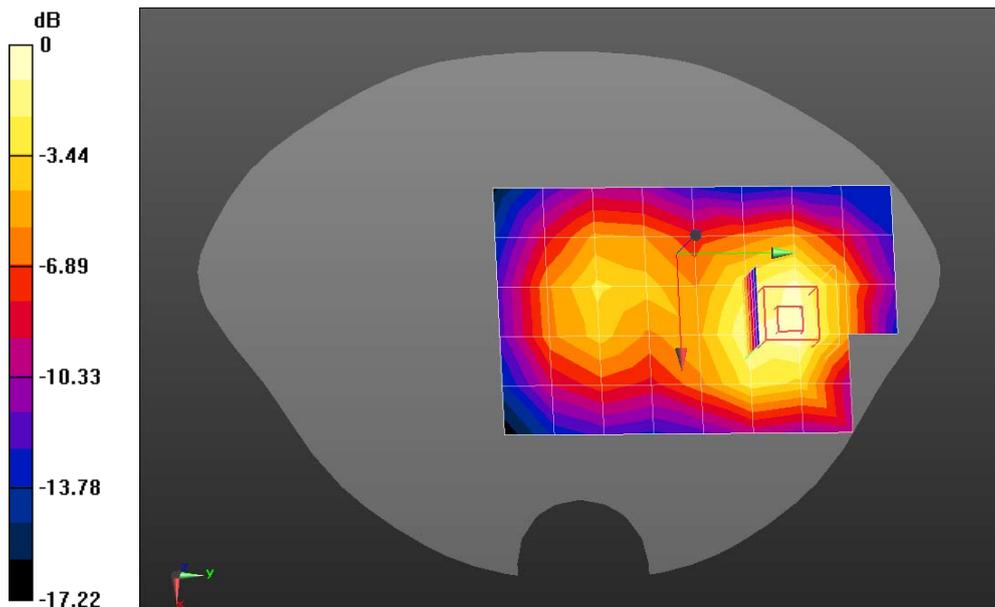
Configuration/GPRS1900 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.625 mW/g

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 13.430 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.017 mW/g

SAR(1 g) = 0.623 mW/g; SAR(10 g) = 0.381 mW/g Maximum value of SAR (measured) = 0.662 mW/g



0 dB = 0.662 mW/g = -3.58 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Back(3up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-3 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.8 ; Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 54.13$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

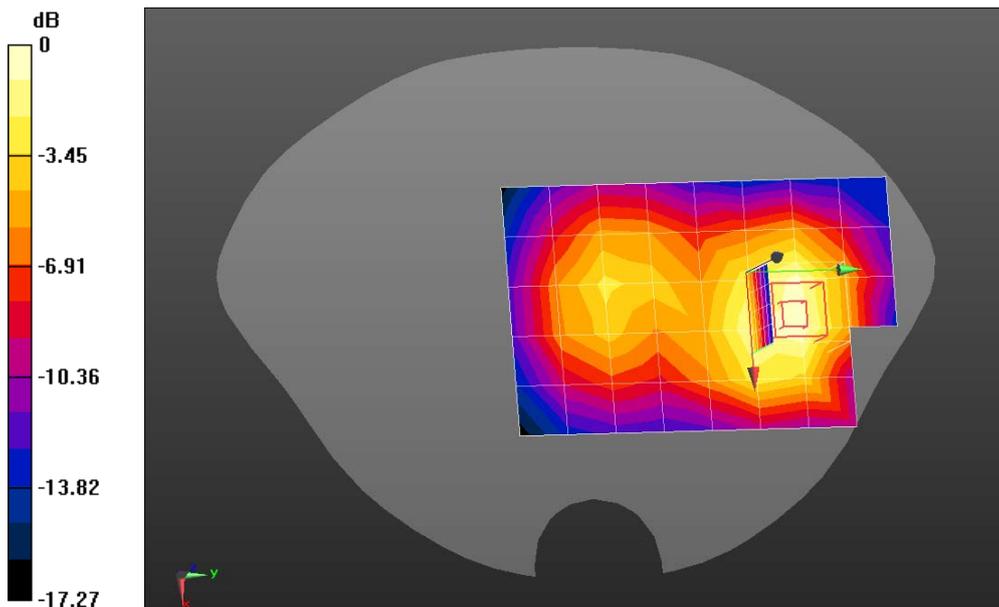
Configuration/GPRS1900 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.624 mW/g

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 13.492 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.000 mW/g

SAR(1 g) = 0.619 mW/g; SAR(10 g) = 0.380 mW/g Maximum value of SAR (measured) = 0.657 mW/g



0 dB = 0.657 mW/g = -3.65 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Back(4up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1 ; Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 54.13$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

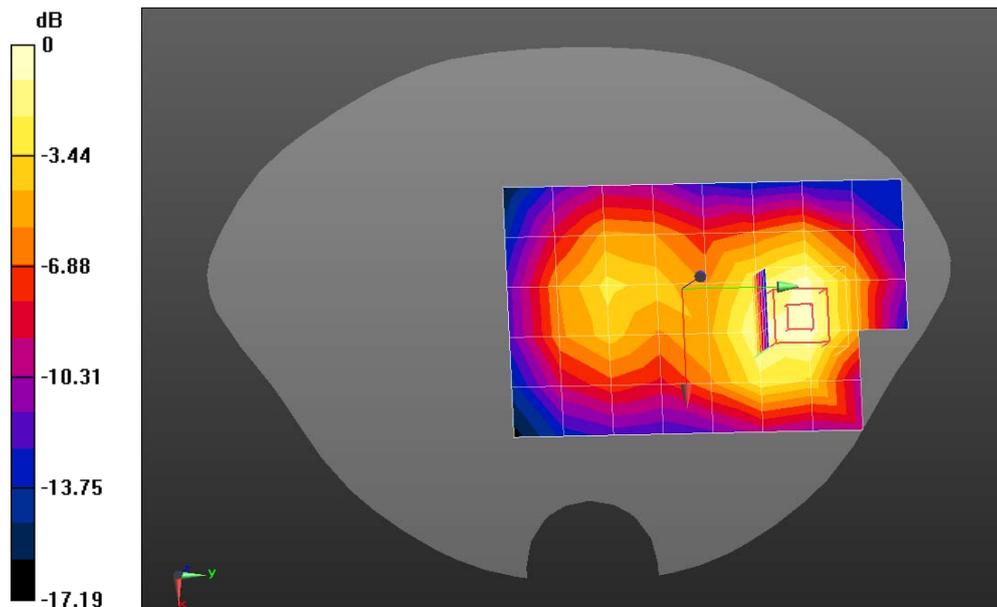
Configuration/GPRS1900 Mid Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/GPRS1900 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 14.110 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.085 mW/g

SAR(1 g) = 0.665 mW/g; SAR(10 g) = 0.407 mW/g Maximum value of SAR (measured) = 0.707 mW/g



0 dB = 0.707 mW/g = -3.01 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 Low Body-Front(4up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle:

1:2.1 ; Frequency: 1850.2 MHz; Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 54.23$;

$\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/GPRS1900 Low Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

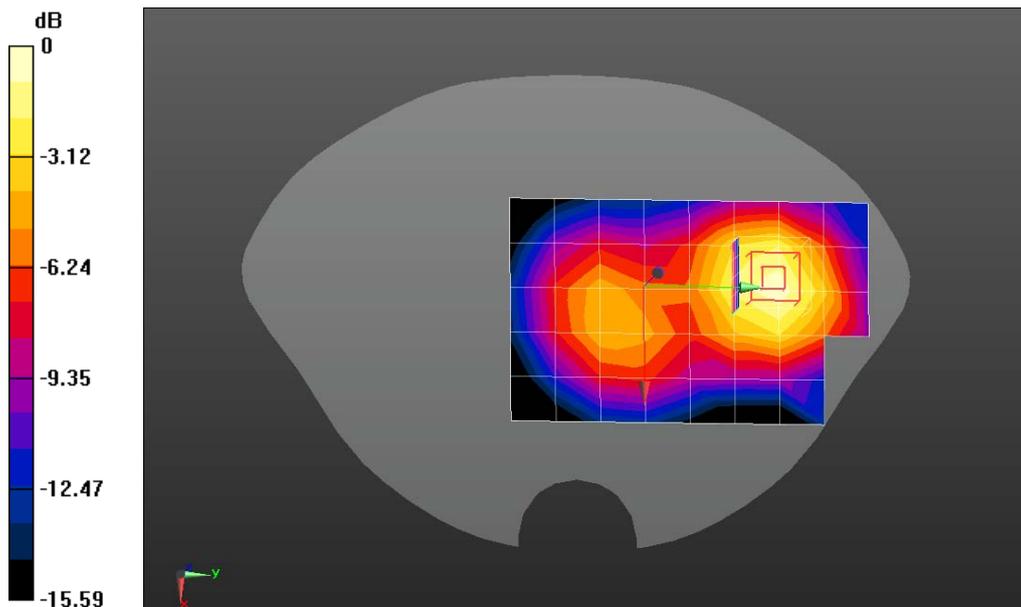
Maximum value of SAR (measured) = 0.878 mW/g

Configuration/GPRS1900 Low Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 14.202 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.365 mW/g

SAR(1 g) = 0.837 mW/g; SAR(10 g) = 0.501 mW/g Maximum value of SAR (measured) = 0.895 mW/g



0 dB = 0.895 mW/g = -0.96 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Front(4up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1 ; Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon = 54.13$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

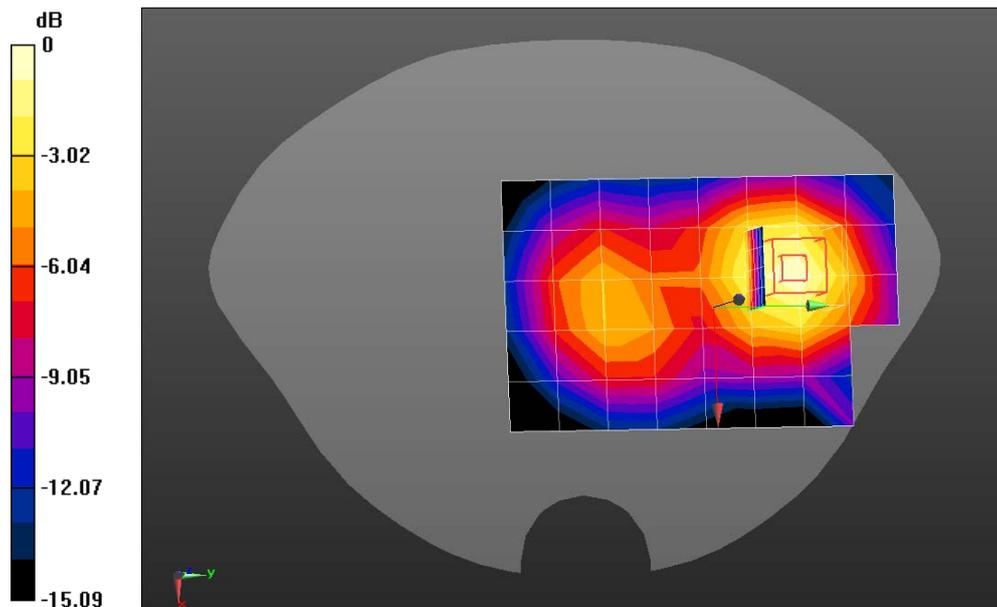
Configuration/GPRS1900 Mid Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.959 mW/g

Configuration/GPRS1900 Mid Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 15.458 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.451 mW/g

SAR(1 g) = 0.908 mW/g; SAR(10 g) = 0.551 mW/g Maximum value of SAR (measured) = 0.969 mW/g



0 dB = 0.969 mW/g = -0.27 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Front(4up)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle:

1:2.1 ; Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 54.04$;

$\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

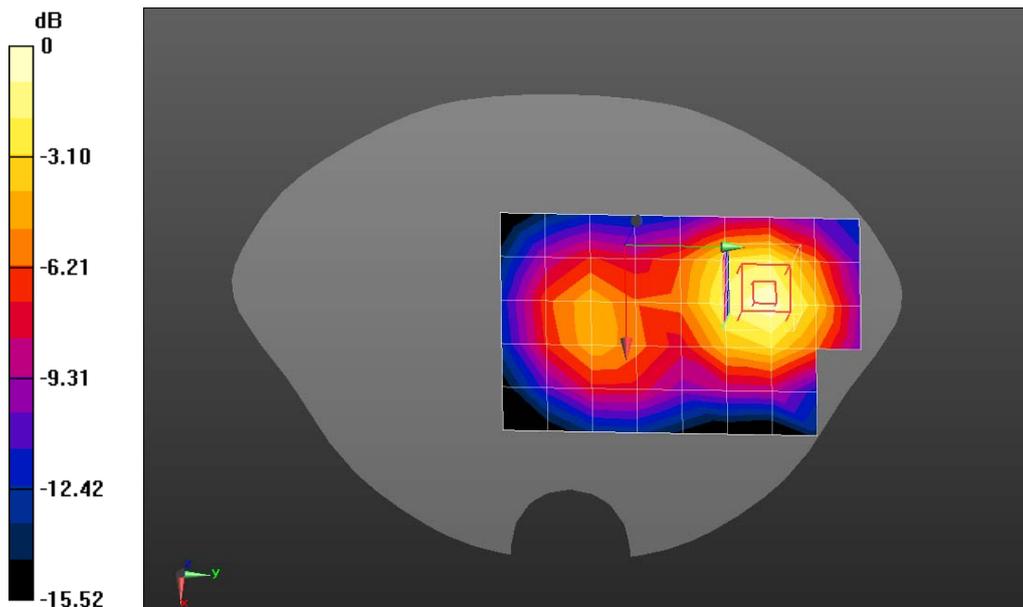
Configuration/GPRS1900 High Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.955 mW/g

Configuration/GPRS1900 High Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 14.848 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.510 mW/g

SAR(1 g) = 0.920 mW/g; SAR(10 g) = 0.550 mW/g Maximum value of SAR (measured) = 0.990 mW/g



0 dB = 0.990 mW/g = -0.09 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 Low Body-Front(4up)(with headset #1)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle:

1:2.1 ; Frequency: 1850.2 MHz; Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 54.23$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

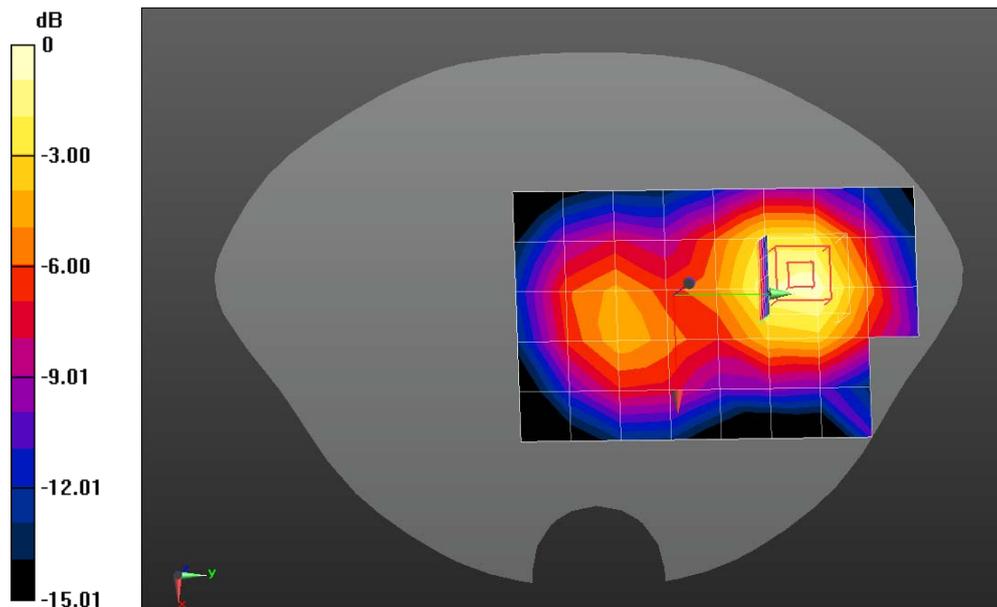
Configuration/GPRS1900 Low Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.859 mW/g

Configuration/GPRS1900 Low Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 14.811 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.362 mW/g

SAR(1 g) = 0.856 mW/g; SAR(10 g) = 0.519 mW/g Maximum value of SAR (measured) = 0.915 mW/g



0 dB = 0.915 mW/g = -0.77 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Front(4up)(with headset #1)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1 ; Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 54.13$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

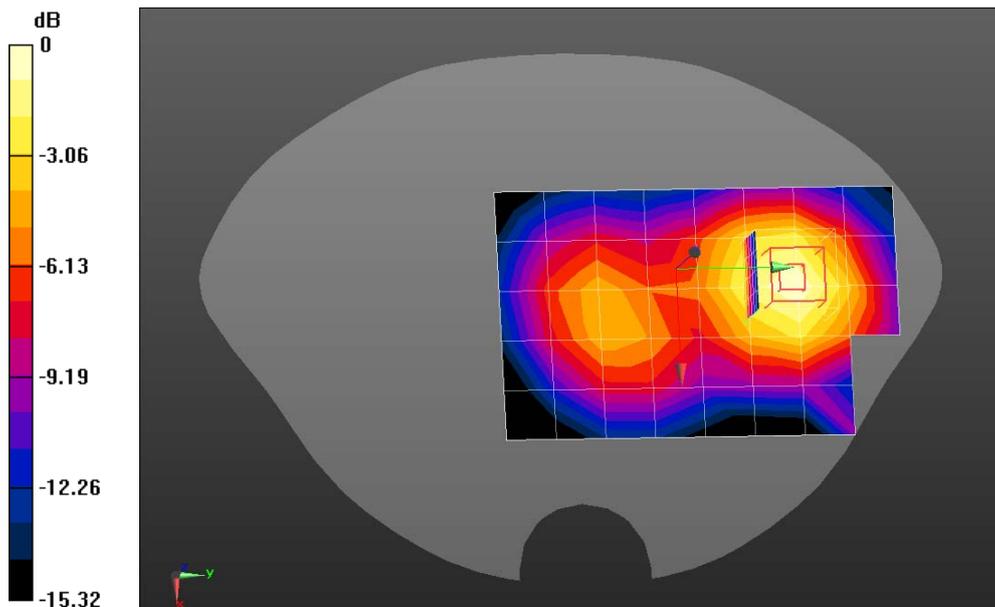
Configuration/GPRS1900 Mid Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.986 mW/g

Configuration/GPRS1900 Mid Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 14.773 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.485 mW/g

SAR(1 g) = 0.927 mW/g; SAR(10 g) = 0.560 mW/g Maximum value of SAR (measured) = 0.991 mW/g



0 dB = 0.991 mW/g = -0.08 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Front(4up)(with headset #1)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle:

1:2.1 ; Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 54.04$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

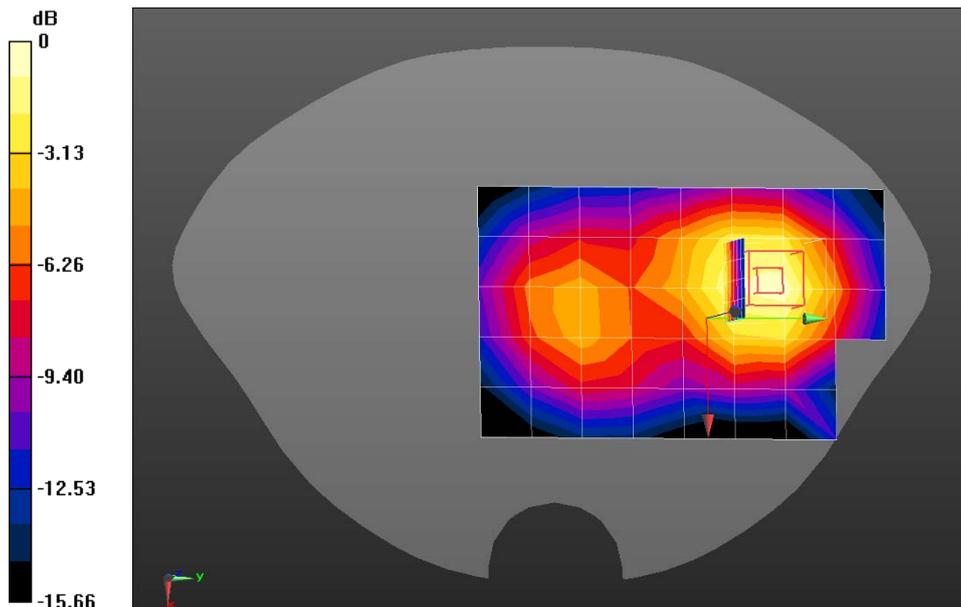
Configuration/GPRS1900 High Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.989 mW/g

Configuration/GPRS1900 High Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 15.665 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.605 mW/g

SAR(1 g) = 0.984 mW/g; SAR(10 g) = 0.592 mW/g Maximum value of SAR (measured) = 1.06 mW/g



0 dB = 1.06 mW/g = 0.51 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Front(4up)(with headset #2)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1 ; Frequency: 1880 MHz; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 54.13$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

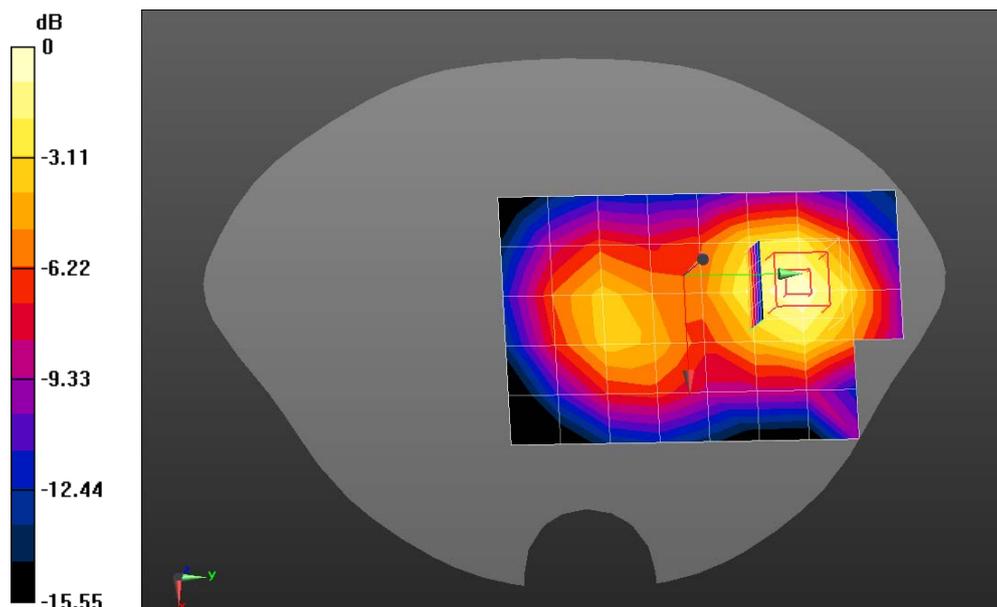
Configuration/GPRS1900 Mid Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.897 mW/g

Configuration/GPRS1900 Mid Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 15.173 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.360 mW/g

SAR(1 g) = 0.846 mW/g; SAR(10 g) = 0.513 mW/g Maximum value of SAR (measured) = 0.890 mW/g



0 dB = 0.890 mW/g = -1.01 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Front(4up)(with headset #1)(with battery #2)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle:

1:2.1 ; Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 54.04$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

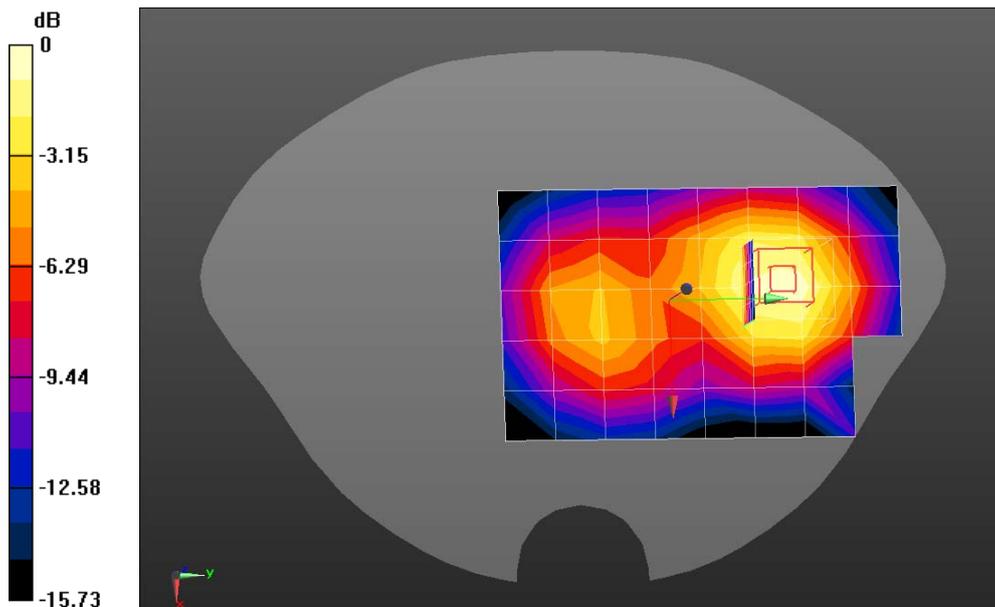
Configuration/GPRS1900 High Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.944 mW/g

Configuration/GPRS1900 High Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 16.685 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.532 mW/g

SAR(1 g) = 0.941 mW/g; SAR(10 g) = 0.568 mW/g Maximum value of SAR (measured) = 1.00 mW/g



0 dB = 1.00 mW/g = 0.00 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Front(4up)(with headset #1)(with battery #3)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle:

1:2.1 ; Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 54.04$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

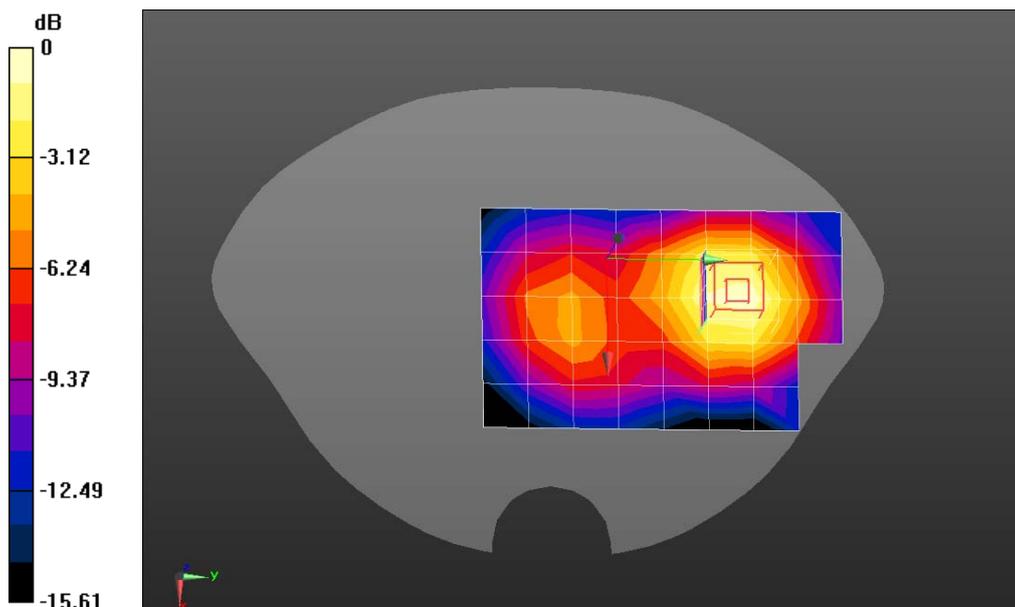
Configuration/GPRS1900 High Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/GPRS1900 High Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 14.373 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.443 mW/g

SAR(1 g) = 0.881 mW/g; SAR(10 g) = 0.529 mW/g Maximum value of SAR (measured) = 0.936 mW/g



0 dB = 0.936 mW/g = -0.57 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Front(4up)(with headset #1)(with battery #4)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: GPRS/EGPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle:

1:2.1 ; Frequency: 1909.8 MHz; Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 54.04$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.43, 7.43, 7.43); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

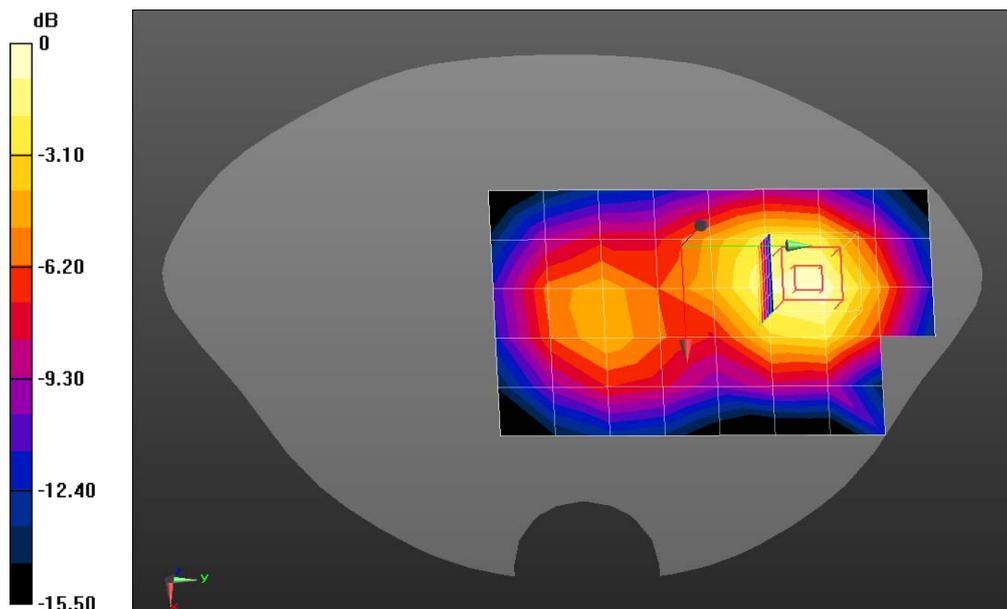
Configuration/GPRS1900 High Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

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

Configuration/GPRS1900 High Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 16.303 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.632 mW/g

SAR(1 g) = 1.000 mW/g; SAR(10 g) = 0.605 mW/g Maximum value of SAR (measured) = 1.06 mW/g



0 dB = 1.06 mW/g = 0.51 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

Bluetooth 2402MHz Touch-Left

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Bluetooth; Communication System Band: ISM Band; Duty Cycle: 1:1.0; Frequency: 2402 MHz; Medium parameters used: $f = 2402$ MHz; $\sigma = 1.74$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³ ;

Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.25, 7.25, 7.25); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

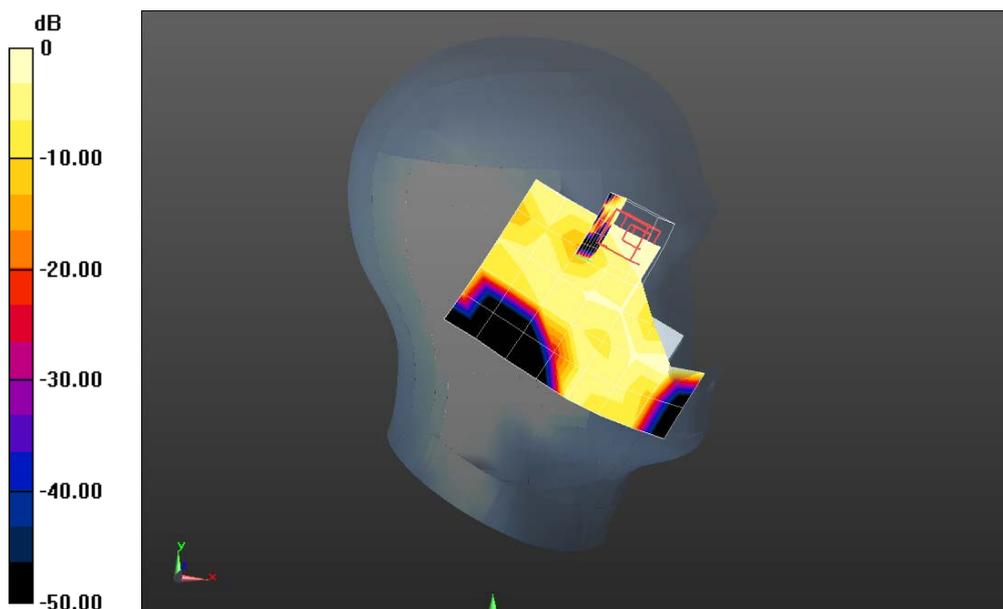
Configuration/Bluetooth Low Touch-Left/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.00398 mW/g

Configuration/Bluetooth Low Touch-Left/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 0 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.0049 mW/g

SAR(1 g) = 0.0006 mW/g; SAR(10 g) = 0.00004 mW/g Maximum value of SAR (measured) = 0.00399 mW/g



0 dB = 0.00399 mW/g = -47.98 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

Bluetooth 2402MHz Touch-Right

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Bluetooth; Communication System Band: ISM Band; Duty Cycle: 1:1.0; Frequency: 2402 MHz; Medium parameters used: $f = 2402 \text{ MHz}$; $\sigma = 1.74 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Right Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.25, 7.25, 7.25); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Configuration/Bluetooth Low Touch-Right/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

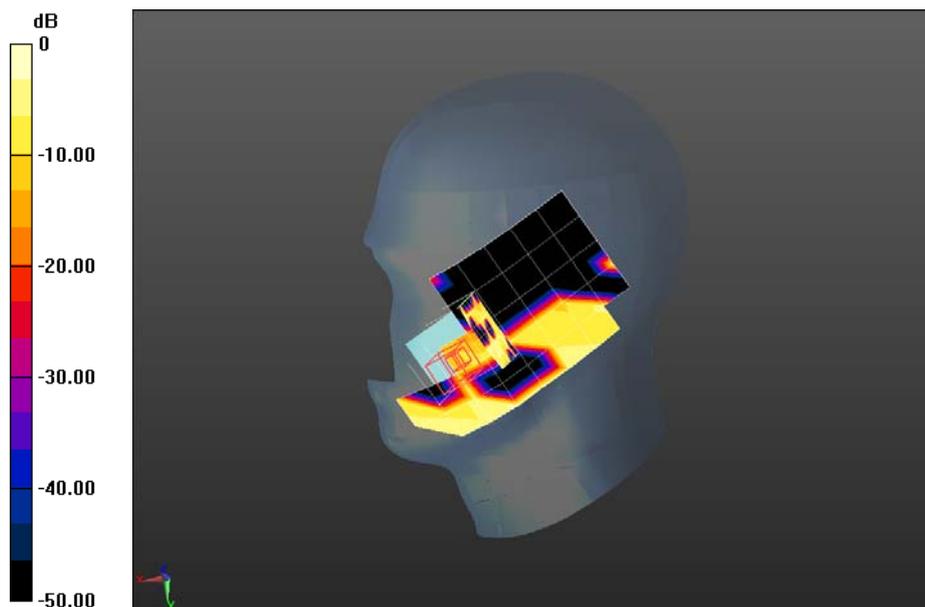
Maximum value of SAR (measured) = 0.00144 mW/g

Configuration/Bluetooth Low Touch-Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm, Reference Value = 0 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.00205 mW/g

SAR(1 g) = 0.0001 mW/g; SAR(10 g) = 0.00002 mW/g Maximum value of SAR (measured) = 0.00233 mW/g



0 dB = 0.00233 mW/g = -52.65 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

Bluetooth 2402MHz Body-Back

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Bluetooth; Communication System Band: ISM Band; Duty Cycle: 1:1.0; Frequency: 2402 MHz; Medium parameters used: $f = 2402$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 52.57$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(6.98, 6.98, 6.98); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

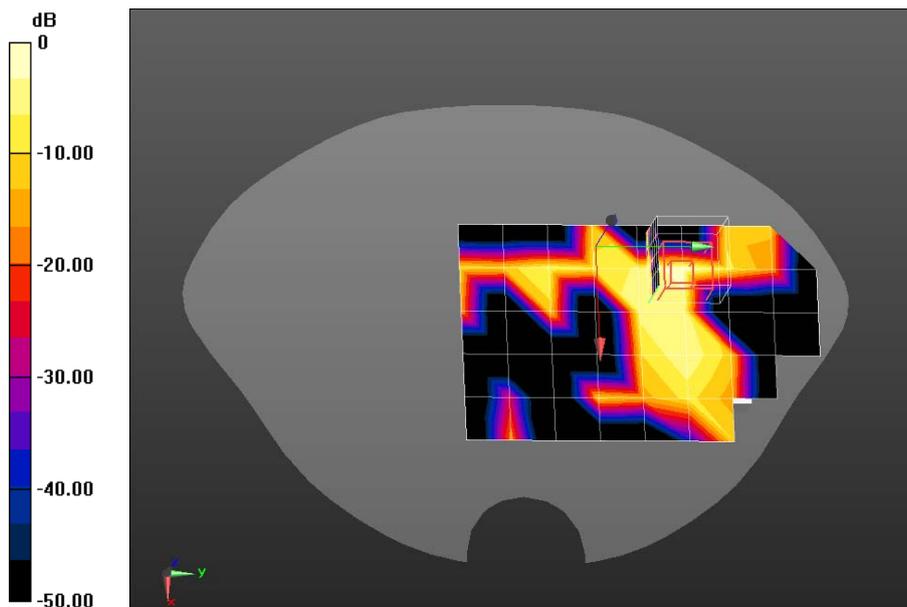
Configuration/Bluetooth Low Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.00464 mW/g

Configuration/Bluetooth Low Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 0 V/m; Power Drift = 0.12 dB

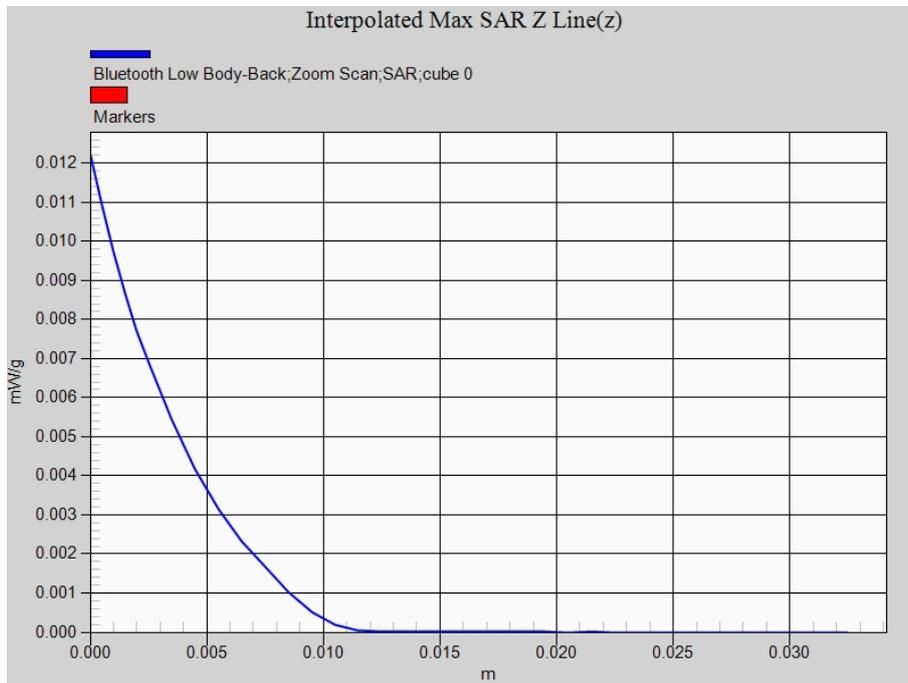
Peak SAR (extrapolated) = 0.012 mW/g

SAR(1 g) = 0.004 mW/g; SAR(10 g) = 0.001 mW/g Maximum value of SAR (measured) = 0.00560 mW/g



0 dB = 0.00560 mW/g = -45.04 dB mW/g

Z-Axis Plot



Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

Bluetooth 2402MHz Body-Front

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Bluetooth; Communication System Band: ISM Band; Duty Cycle: 1:1.0; Frequency: 2402 MHz; Medium parameters used: $f = 2402$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 52.57$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(6.98, 6.98, 6.98); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

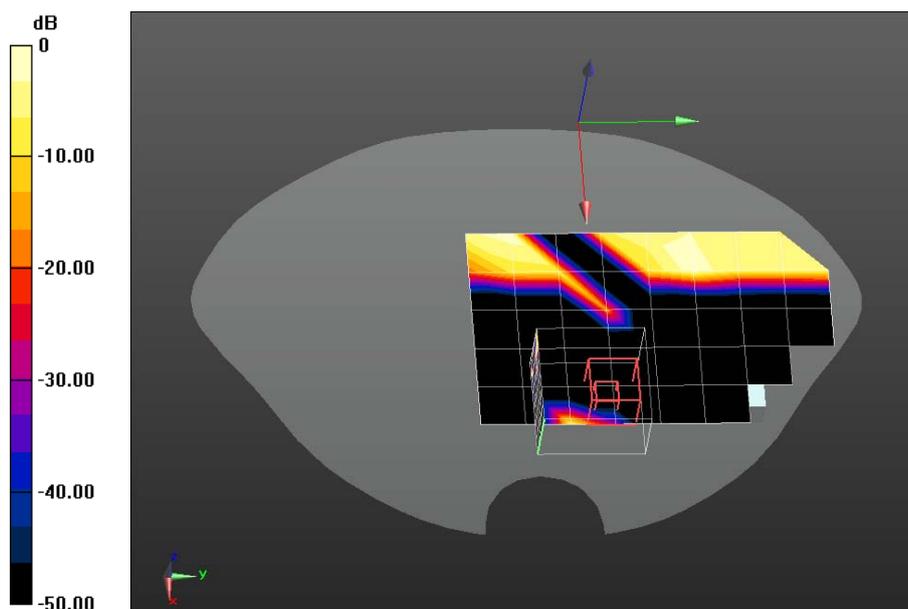
Configuration/Bluetooth Low Body-Front/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.00146 mW/g

Configuration/Bluetooth Low Body-Front/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.00125 mW/g

SAR(1 g) = 0.0002 mW/g; SAR(10 g) = 0.00003 mW/g Maximum value of SAR (measured) = 0.00195 mW/g



0 dB = 0.00195 mW/g = -54.20 dB mW/g

Date/Time: 15-08-2012

Test Laboratory: QuieTek Lab

Bluetooth 2402MHz Body-Back(with headset #1)

DUT: GSM Mobile Phone ; Type: G6153W

Communication System: Bluetooth; Communication System Band: ISM Band; Duty Cycle: 1:1.0; Frequency: 2402 MHz; Medium parameters used: $f = 2402$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 52.57$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(6.98, 6.98, 6.98); Calibrated: 12/03/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 23/01/2012
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

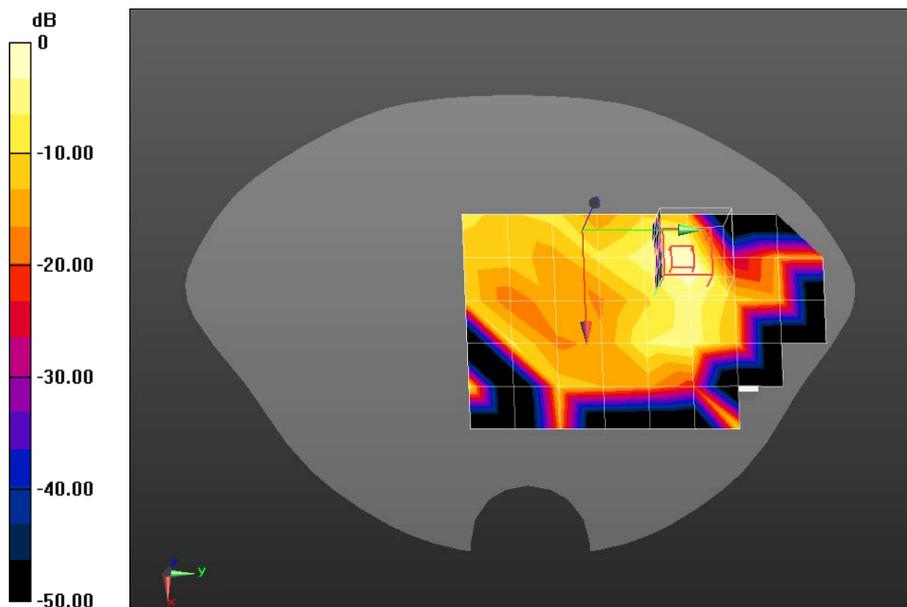
Configuration/Bluetooth Low Body-Back/Area Scan (6x9x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.00688 mW/g

Configuration/Bluetooth Low Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm, Reference Value = 0 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.013 mW/g

SAR(1 g) = 0.004 mW/g; SAR(10 g) = 0.0009 mW/g Maximum value of SAR (measured) = 0.00690 mW/g



0 dB = 0.00690 mW/g = -43.22 dB mW/g