

# FCC SAR Test Report

Product Name : Tablet PC

Model No. : TE69SA3

FCC ID : WL6-TE69SA3

Applicant : ELITEGROUP COMPUTER SYSTEMS CO., LTD.

Address : No.239, Sec. 2, Tiding Blvd., Neihu Dist, Taipei City 14,  
Taiwan (R.O.C)

Date of Receipt : Apr. 01, 2015

Date of Test : Sept. 09, 2015

Issued Date : Sept. 16, 2015

Report No. : 1540106R-HP-US-P03V01

Report Version : V1.0

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## Test Report Certification

Issued Date: Sept. 16, 2015  
Report No.: 1540106R-HP-US-P03V01



Product Name : Tablet PC  
Applicant : ELITEGROUP COMPUTER SYSTEMS CO., LTD.  
Address : No.239, Sec. 2, Tiding Blvd., Neihu Dist, Taipei City 14, Taiwan (R.O.C)  
Manufacturer : ELITEGROUP COMPUTER SYSTEMS CO., LTD.  
Address : No.239, Sec. 2, Tiding Blvd., Neihu Dist, Taipei City 14, Taiwan (R.O.C)  
Model No. : TE69SA3  
FCC ID : WL6-TE69SA3  
EUT Voltage : DC 5V  
Applicable Standard : FCC KDB Publication 447498 D01v05r02  
FCC KDB Publication 865664 D01v01r03  
FCC KDB Publication 248227 D01v02  
FCC KDB Publication 616217 D04v01r01  
FCC KDB Publication 941225 D01, D05,D06  
Test Result : Max. SAR Measurement (1g)  
Head: 0.252 W/kg; Body-worn: 1.270 W/kg  
Simultaneous transmission 1.878 W/kg  
Performed Location : Suzhou EMC Laboratory  
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou,215006, Jiangsu,China  
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FCC Registration Number: 800392  
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## History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1540106R-HP-US-P03V01	V1.0	Initial Issued Report	Sept. 16, 2015

## 1. General Information

### 1.1. EUT Description

Product Name	Tablet PC
Model No.	TE69SA3
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Integral Antenna
GPS Functions	Yes
<b>2G</b>	
Support Band	GSM850/PCS1900
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
Antenna Gain	GSM 850: 1.07 dBi PCS 1900: 2.12 dBi
<b>3G</b>	
Support Band	WCDMA Band II/ WCDMA Band V
Uplink	WCDMA Band II: 1852.4~1907.6MHz WCDMA Band V: 824~849MHz
Downlink	WCDMA Band II: 1932.4~1987.6MHz WCDMA Band V: 869~894MHz
Release Version	Rel-7
Type of modulation	QPSK for Uplink
Antenna Gain	WCDMA Band II: 2.12 dBi WCDMA Band V: 1.07 dBi
<b>Wi-Fi</b>	
Frequency Range	<b>For 2.4GHz Band</b> 802.11b/g/n(20MHz): 2412~2462MHz
Channel Number	11 for 802.11b/g/n(HT20)
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: up to 11Mbps 802.11g: up to 54Mbps

	802.11n : up to 72.2Mbps
Antenna Gain	2.0 dBi
<b>Bluetooth</b>	
Bluetooth Frequency	2402~2480MHz
Bluetooth Version	V3.0HS +V4.0
Type of modulation	V3.0HS: GFSK, Pi/4 DQPSK, 8DPSK V4.0: GFSK
Data Rate	V3.0+HS: 1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK) V4.0: 1Mbps(GFSK)
Antenna Gain	2.0 dBi

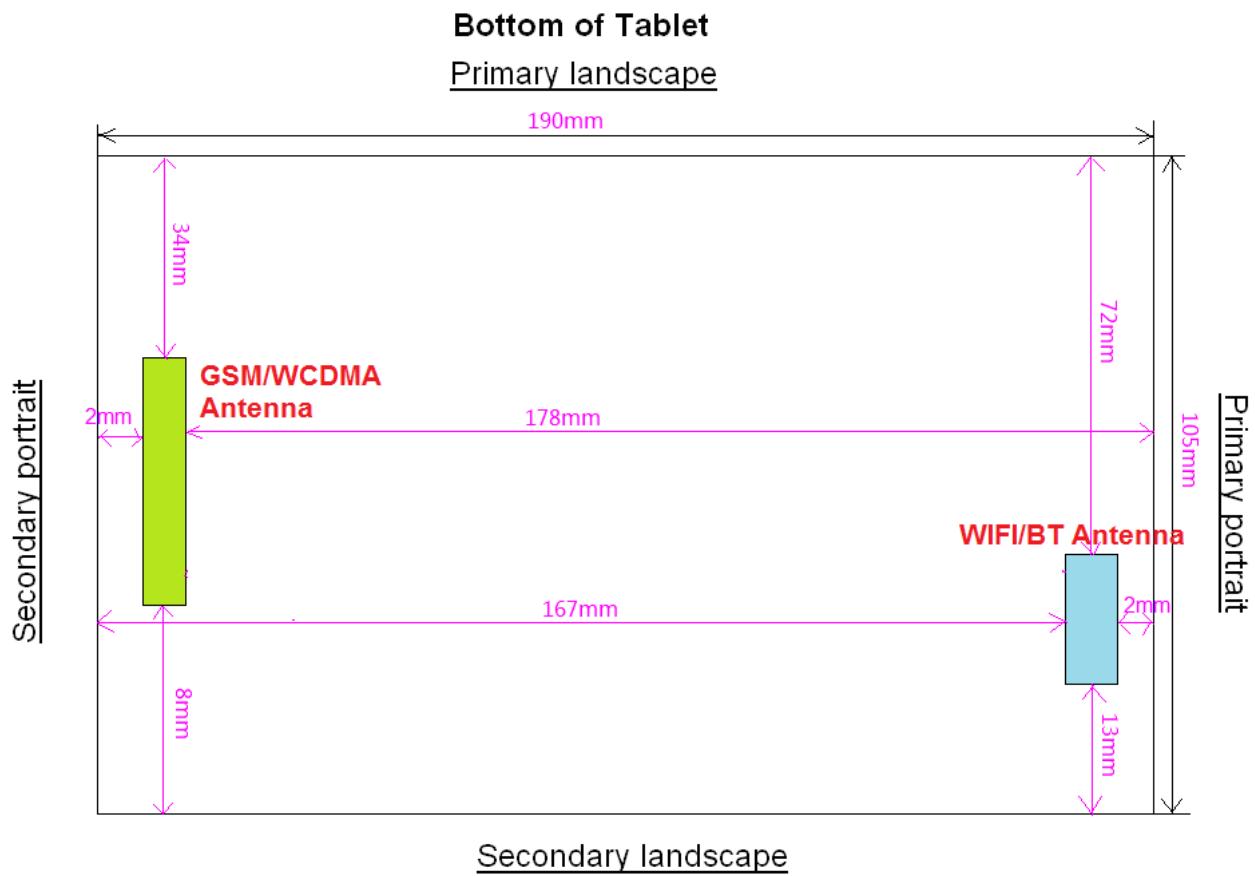
Component	
Adapter #1	Model No.: W12-010N3A Output Power: 5VDC/2A Input Power: 100 - 240V ~ 50/60Hz, 0.3A
Adapter #2	Model No.: WB-10G05FU Output Power: 5VDC/2A Input Power: 100 - 240V ~ 50/60Hz, 0.4A

## 1.2. Test Environment

Ambient conditions in the laboratory:

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

## 1.3. EUT Antenna Locations



## 1.4. Simultaneous Transmission Configurations

2.4GHz Wi-Fi and Bluetooth share the same antenna path and cannot transmit simultaneously.

## 1.5. SAR Test Exclusions Applied

### (A) WIFI/ Bluetooth

Per FCC KDB 447498 D01v05r02, the SAR exclusion threshold for distances<50mm is defined by the following equation:

$$\frac{\text{Max Power of Channel (mW)}}{\text{Test Separation Dist (mm)}} * \sqrt{\text{Frequency(GHz)}} \leq 3.0$$

$[(3.98\text{mW}/5) * \sqrt{2.480}] = 1.254 < 3.0$  for Head;  $[(3.98\text{mW}/5) * \sqrt{2.480}] = 1.254 < 3.0$  for Body.

Based on the maximum output power of Bluetooth and the antenna to use separation distance, Bluetooth SAR was not required;

Based on the maximum output power of 2.4GHz WIFI and the antenna to use separation distance, the maximum exclusion distance is 31.35mm;

Based on the maximum output power of GSM850 power and the antenna to use separation distance, the maximum exclusion distance is 335.49mm;

Based on the maximum output power of PCS1900 power and the antenna to use separation distance, the maximum exclusion distance is 164.86mm;

Based on the maximum output power of WCDMA Band II power and the antenna to use separation distance, the maximum exclusion distance is 61.37mm;

Based on the maximum output power of WCDMA Band V power and the antenna to use separation distance, the maximum exclusion distance is 52.33mm;

## 1.6. Power Reduction for SAR

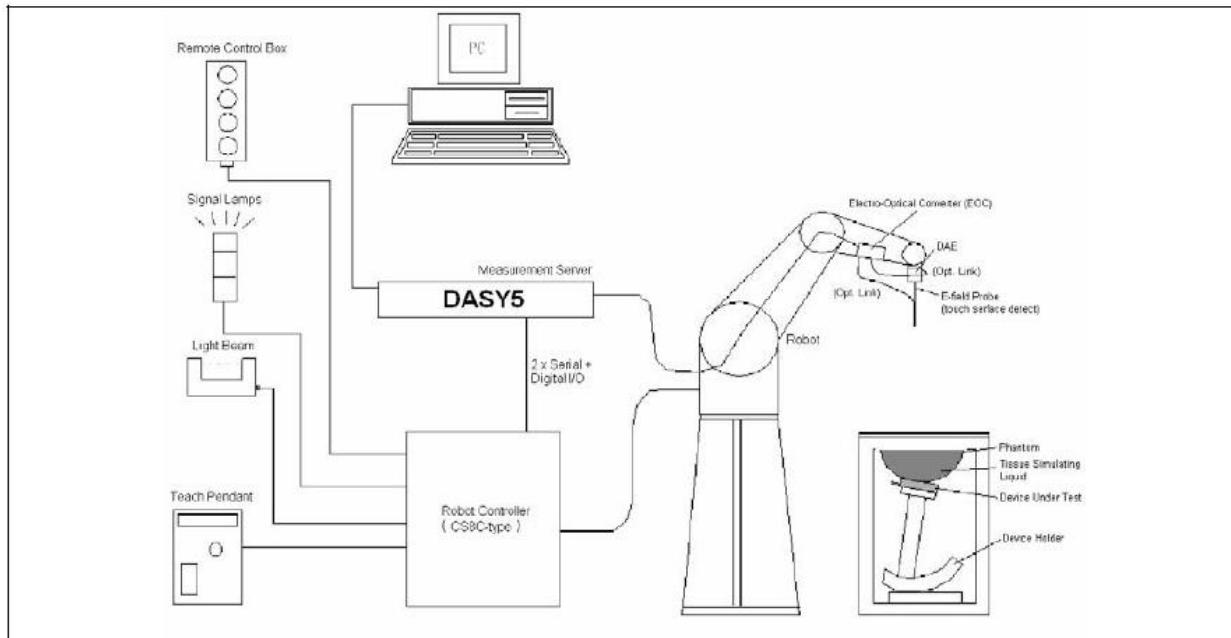
There is no power reduction used for any band mode implemented in this device for SAR purposes.

## 1.7. Guidance Documents

- 1) FCC KDB Publication 447498 D01v05r02 (General SAR Guidance)
- 2) FCC KDB Publication 865664 D01v01r03(SAR measurement 100 MHz to 6 GHz)
- 3) FCC KDB Publication 248227 D01v02 (SAR Considerations for 802.11 Devices)
- 4) FCC KDB Publication 616217 D04v01r01 (SAR evaluation considerations for Laptop, Notebook, Netbook and Tablet Computers)
- 5) FCC KDB Publication 941225 D01,D05,D06

## 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 10mm<sup>2</sup> 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/m<sup>3</sup> 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.

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

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

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

## 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

<b>Model</b>	EX3DV4
<b>Construction</b>	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
<b>Frequency</b>	10 MHz to 6 GHz Linearity: $\pm 0.2$ dB (30 MHz to 6 GHz)
<b>Directivity</b>	$\pm 0.3$ dB in HSL (rotation around probe axis) $\pm 0.5$ dB in tissue material (rotation normal to probe axis)
<b>Dynamic Range</b>	10 $\mu$ W/g to 100 mW/g Linearity: $\pm 0.2$ dB (noise: typically $< 1$ $\mu$ W/g)
<b>Dimensions</b>	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
<b>Application</b>	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 DASY 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
Triton X-100	40.45	52.4	54.90	40.5	46.7	73.2

#### 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]
		$\epsilon_r$	$\sigma$ [s/m]	
835 MHz	Reference result ± 5% window	41.50 39.43 to 43.58	0.90 0.86 to 0.95	N/A
	09-09-2015	41.14	0.88	21.0
1900 MHz	Reference result ± 5% window	40.00 38.00 to 42.00	1.40 1.33 to 1.47	N/A
	09-09-2015	38.88	1.45	21.0
2450 MHz	Reference result ± 5% window	39.20 37.24 to 41.16	1.80 1.62 to 1.98	N/A
	09-09-2015	39.76	1.85	21.0

Body Tissue Simulant Measurement				
Frequency [MHz]	Description	Dielectric Parameters		Tissue Temp. [°C]
		$\epsilon_r$	$\sigma$ [s/m]	
835 MHz	Reference result ± 5% window	55.2 52.44 to 57.96	0.97 0.92 to 1.02	N/A
	09-09-2015	52.89	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
	09-09-2015	52.93	1.53	21.0
2450MHz	Reference result ± 5% window	52.7 50.07 to 55.34	1.95 1.85 to 2.05	N/A
	09-09-2015	52.25	1.99	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 [12] and extrapolated according to the head parameters specified in P1528.

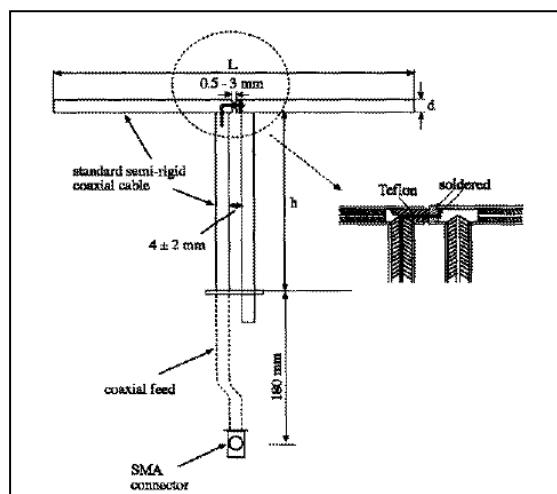
Target Frequency (MHz)	Head		Body	
	$\epsilon_r$	$\sigma$ (S/m)	$\epsilon_r$	$\sigma$ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
<b>835</b>	<b>41.5</b>	<b>0.90</b>	<b>55.2</b>	<b>0.97</b>
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610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

( $\epsilon_r$  = relative permittivity,  $\sigma$  = conductivity and  $\rho = 1000$  kg/m<sup>3</sup>)

## 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 and 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	9.59 8.63 to 10.55	6.21 5.59 to 6.83	N/A
	09-09-2015	9.80	6.44	21.0
Validation Kit: D1900V2-SN 5d121				
1900 MHz	Reference result ± 10% window	41.1 36.99 to 45.21	21.3 19.17 to 23.43	N/A
	09-09-2015	38.20	19.48	21.0
Validation Dipole: D2450V2-SN 839				
2450 MHz	Reference result ± 10% window	52.0 46.8 to 57.2	24.3 21.87 to 26.73	N/A
	09-09-2015	54.0	24.08	21.0

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

**System Performance Check at 835MHz, 1900MHz and 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	9.42 8.48 to 10.36	6.15 5.54 to 6.77	N/A
	09-09-2015	9.40	6.12	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	39.7 35.73 to 43.67	20.9 18.81 to 22.99	N/A
	09-09-2015	38.88	19.96	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	49.9 44.91 to 54.89	23.1 20.79 to 25.41	N/A
	09-09-2015	50.0	22.60	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,

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

$\sigma$ : represents the simulated tissue conductivity

$\rho$ : 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, Tablet PC, 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<sup>2</sup> ) 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<sup>3</sup> ).

### **4.3. SAR Measurement Conditions for UMTS**

#### **4.3.1. Output Power Verification**

Maximum output power is measured on the High, Middle and Low channels for each applicable transmission band according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all “1s”.

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121 (release 5), using the appropriate RMC with TPC (transmit power control) set to all “1s” or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

#### **4.3.2. Head SAR Measurements for Handsets**

SAR for head exposure configurations is measured using the 12.2 kbps RMC with TPC bits configured to all “1s”. SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2 kbps AMR is less than 0.25 dB higher than that measured in 12.2 kbps RMC. Otherwise, SAR is measured on the maximum output channel in 12.2 AMR with a 3.4 kbps SRB (signaling radio bearer) using the exposure configuration that resulted in the highest SAR for that RF channel in the 12.2 kbps RMC mode.

#### **4.3.3. Body SAR Measurements**

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”.

#### **4.3.4. SAR Measurements for Handsets with Rel 5 HSDPA**

Body SAR for HSDPA is not required for handsets with HSDPA capabilities when the maximum average output power of each RF channel with HSDPA active is less than 0.25 dB higher than that measured without HSDPA using 12.2 kbps RMC and the maximum SAR for 12.2 kbps RMC is  $\leq$  75% of the SAR limit. Otherwise, SAR is measured for HSDPA, using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, using the highest body SAR configuration measured in 12.2 kbps RMC without HSDPA, on the maximum output channel with the body exposure configuration that resulted in the highest SAR in 12.2 kbps RMC mode for that RF channel.

The H-set used in FRC for HSDPA should be configured according to the UE category of a test device. The number of HS-DSCH/HSPDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the applicable H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the FRC for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 2 ms to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors of  $\beta_c=9$  and  $\beta_d=15$ , and power offset parameters of  $\Delta ACK = \Delta NACK = 5$  and  $\Delta CQI = 2$  is used. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the FRC.

#### 4.3.5. SAR Measurements for Handsets with Rel 6 HSUPA

Body SAR for HSUPA is not required when the maximum average output of each RF channel with HSUPA/HSDPA active is less than 0.25 dB higher than as measured without HSUPA/HSDPA using 12.2 kbps RMC and maximum SAR for 12.2 kbps RMC is  $\leq 75\%$  of the SAR limit. Otherwise SAR is measured on the maximum output channel for the body exposure configuration produced highest SAR in 12.2 kbps RMC for that RF channel, using the additional procedures under "Release 6 HSPA data devices"

Head SAR for VOIP operations under HSPA is not required when maximum average output of each RF channel with HSPA is less than 0.25 dB higher than as measured using 12.2 kbps RMC. Otherwise SAR is measured using same HSPA configuration as used for body SAR.

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{hs}^{(1)}$	$\beta_{ec}$	$\beta_{ed}$	$\beta_{ed}$ (SF)	$\beta_{ed}$ (codes)	CM <sup>(2)</sup> (dB)	MPR (dB)	AG <sup>(4)</sup> Index	E-TFCI
1	11/15 <sup>(3)</sup>	15/15 <sup>(3)</sup>	64	11/15 <sup>(3)</sup>	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 <sup>(4)</sup>	15/15 <sup>(4)</sup>	64	15/15 <sup>(4)</sup>	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1:  $\Delta ACK = \Delta NACK$  and  $\Delta CQI = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$ .

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

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

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

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.

## 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	N/A
Controller	Stäubli	SP1	S-0034	N/A
Dipole Validation Kits	Speag	D835V2	4d094	2016.02.26
Dipole Validation Kits	Speag	D1900V2	5d121	2016.02.26
Dipole Validation Kits	Speag	D2450V2	839	2016.02.23
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	Sn1220	2016.01.20
E-Field Probe	Speag	EX3DV4	3710	2016.03.26
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	2016.03.10
Vector Network	Agilent	E5071C	MY48367267	2016.03.10
Signal Generator	Agilent	E4438C	MY49070163	2016.03.10
Power Meter	Anritsu	ML2495A	0905006	2015.10.29
Wide Bandwidth Sensor	Anritsu	MA2411B	0846014	2015.10.29

## 7. Measurement Uncertainty

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

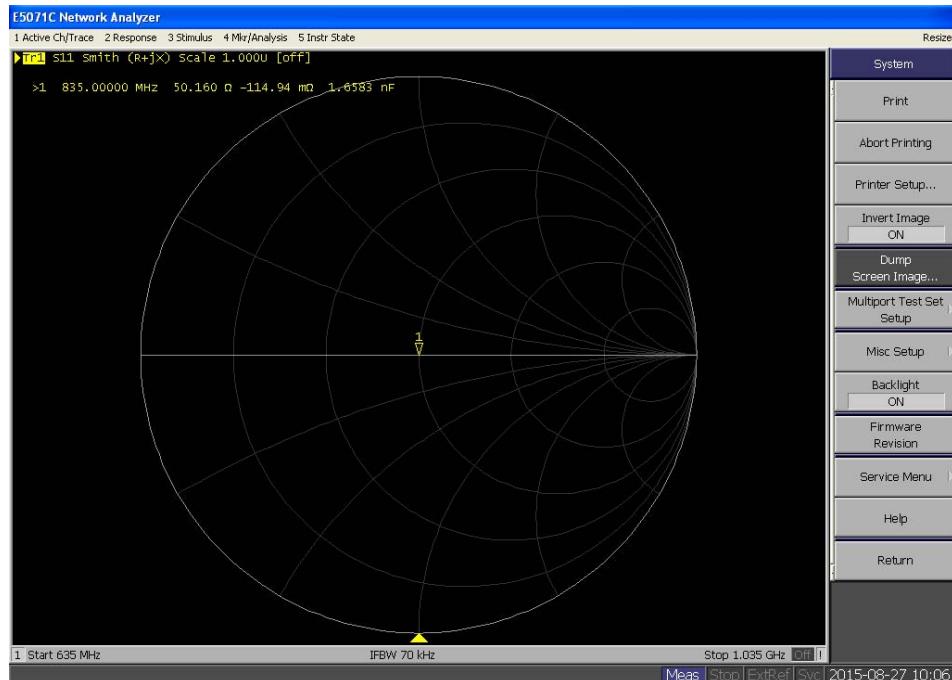
<b>DASY5 Uncertainty</b>								
Measurement uncertainty for 3 GHz to 6 GHz averaged over 1 gram / 10 gram.								
Error Description	Uncert. value	Prob. Dist.	Div.	(ci) 1g	(ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(vi) veff
<b>Measurement System</b>								
Probe Calibration	±6.55%	N	1	1	1	±6.55%	±6.55%	∞
Axial Isotropy	±4.7%	R	$\sqrt{3}$	0.7	0.7	±1.9%	±1.9%	∞
Hemispherical Isotropy	±9.6%	R	$\sqrt{3}$	0.7	0.7	±3.9%	±3.9%	∞
Boundary Effects	±2.0%	R	$\sqrt{3}$	1	1	±1.2%	±1.2%	∞
Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%	∞
System Detection Limits	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%	∞
Readout Electronics	±0.3%	N	1	1	1	±0.3%	±0.3%	∞
Response Time	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
Integration Time	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%	∞
RF Ambient Noise	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
RF Ambient Reflections	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%	∞
Probe Positioner	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5%	∞
Probe Positioning	±9.9%	R	$\sqrt{3}$	1	1	±5.7%	±5.7%	∞
Max. SAR Eval.	±4.0%	R	$\sqrt{3}$	1	1	±2.3%	±2.3%	∞
<b>Test Sample Related</b>								
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	$\sqrt{3}$	1	1	±2.9%	±2.9%	∞
<b>Phantom and Setup</b>								
Phantom Uncertainty	±4.0%	R	$\sqrt{3}$	1	1	±2.3%	±2.3%	∞
Liquid Conductivity (target)	±5.0%	R	$\sqrt{3}$	0.64	0.43	±1.8%	±1.2%	∞
Liquid Conductivity (meas.)	±2.5%	N	1	0.64	0.43	±1.6%	±1.1%	∞
Liquid Permittivity (target)	±5.0%	R	$\sqrt{3}$	0.6	0.49	±1.7%	±1.4%	∞
Liquid Permittivity (meas.)	±2.5%	N	1	0.6	0.49	±1.5%	±1.2%	∞
<b>Combined Std. Uncertainty</b>						±12.8%	±12.6%	330
<b>Expanded STD Uncertainty</b>						±25.6%	±25.2%	

Note: Per KDB 865664 D01 v01r03 requirements for dipole calibration, QuieTek Lab has adopted two years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

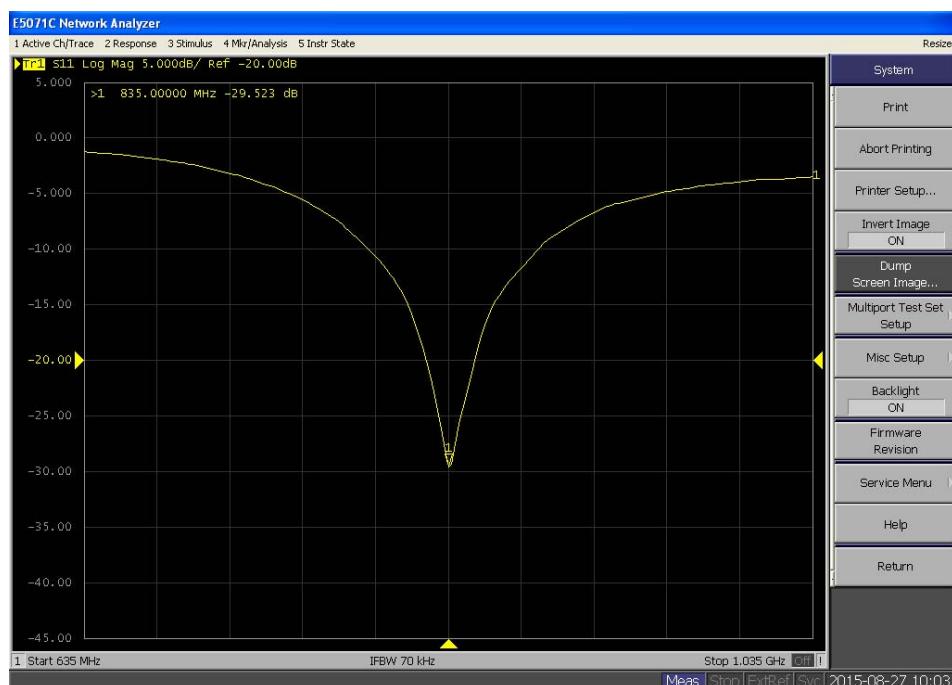
1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement (Show below);
4. Impedance is within  $5\Omega$  of calibrated measurement (Show below).

### 835 Head

Calibrated impedance:  $51.4 \Omega$ ; Measured impedance:  $50.160 \Omega$  (within  $5\Omega$ )

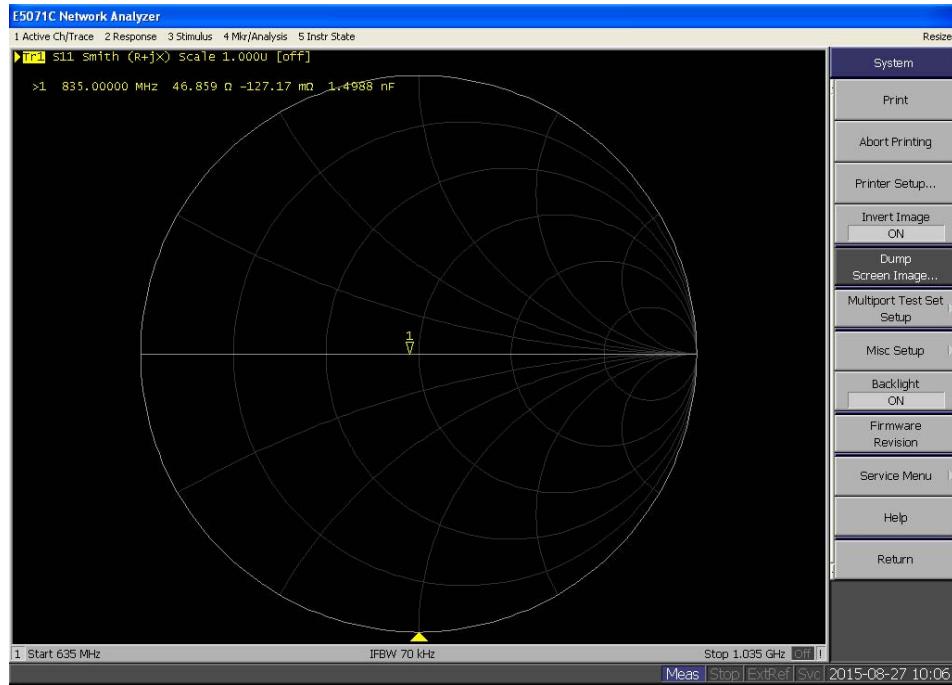


Calibrated return loss:  $-30.2 \text{ dB}$ ; Measured return loss:  $-29.523 \text{ dB}$  (within 20%)

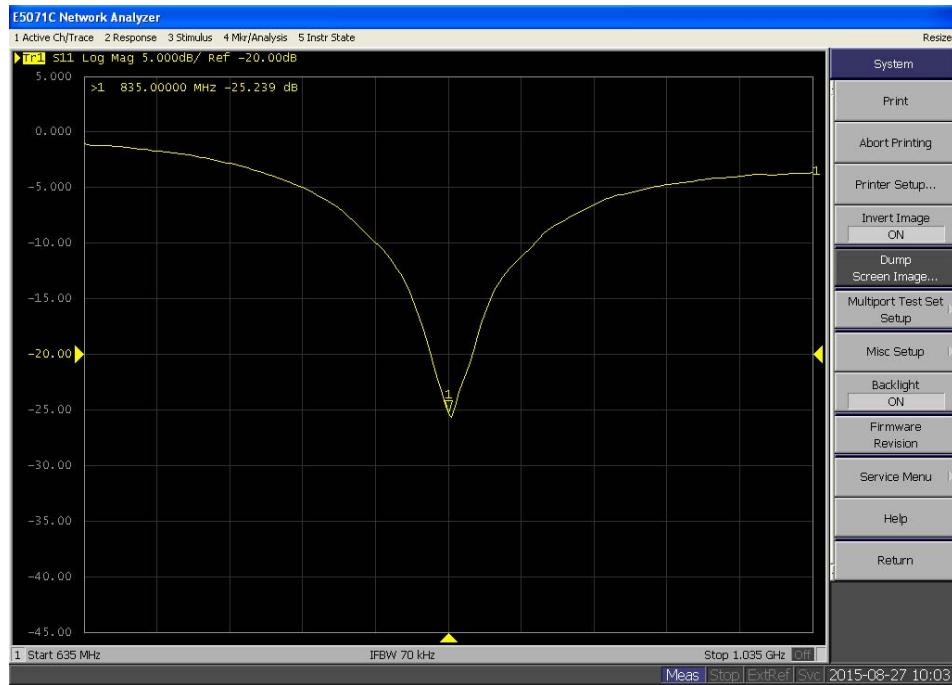


## 835 Body

Calibrated impedance: 46.9 Ω; Measured impedance: 46.859 Ω (within 5Ω)

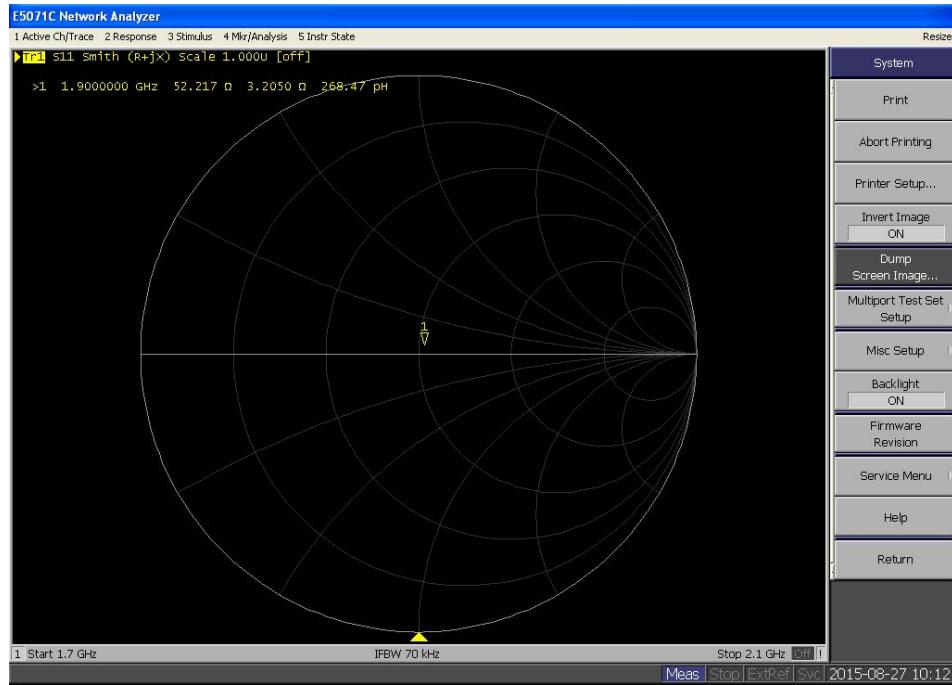


Calibrated return loss: -24.3 dB; Measured return loss: -25.239dB (within 20%)

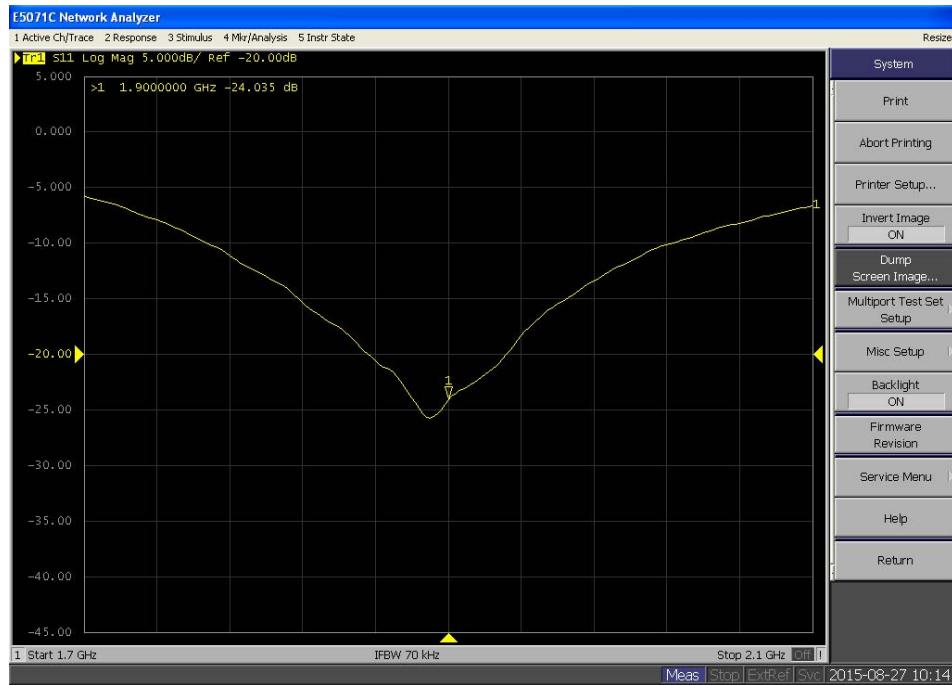


## 1900 Head

Calibrated impedance: 50.8 Ω; Measured impedance: 52.217 Ω (within 5Ω)

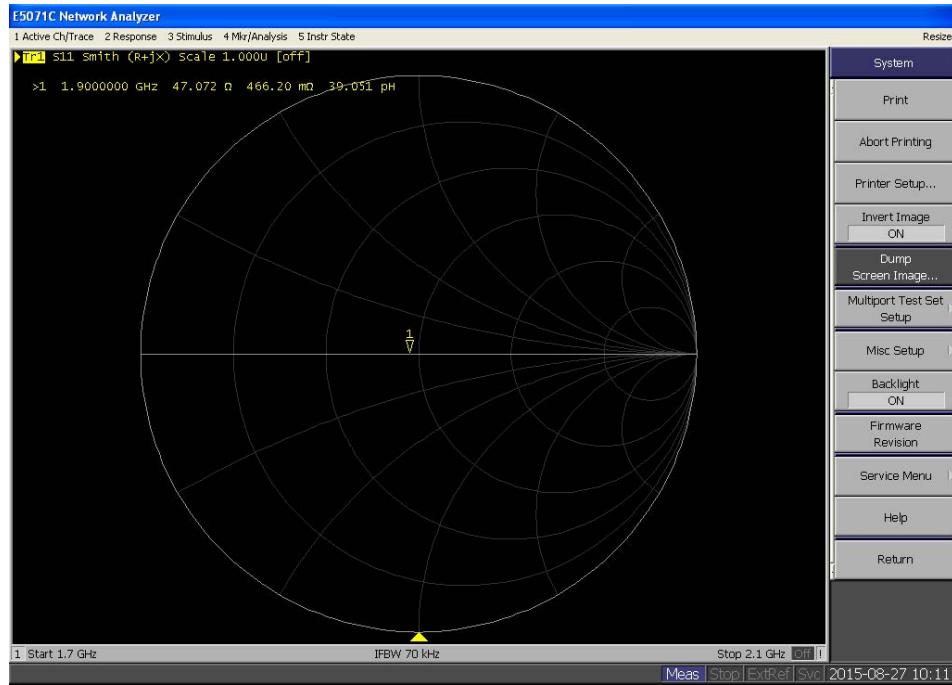


Calibrated return loss: -23.6 dB; Measured return loss: -24.035dB (within 20%)

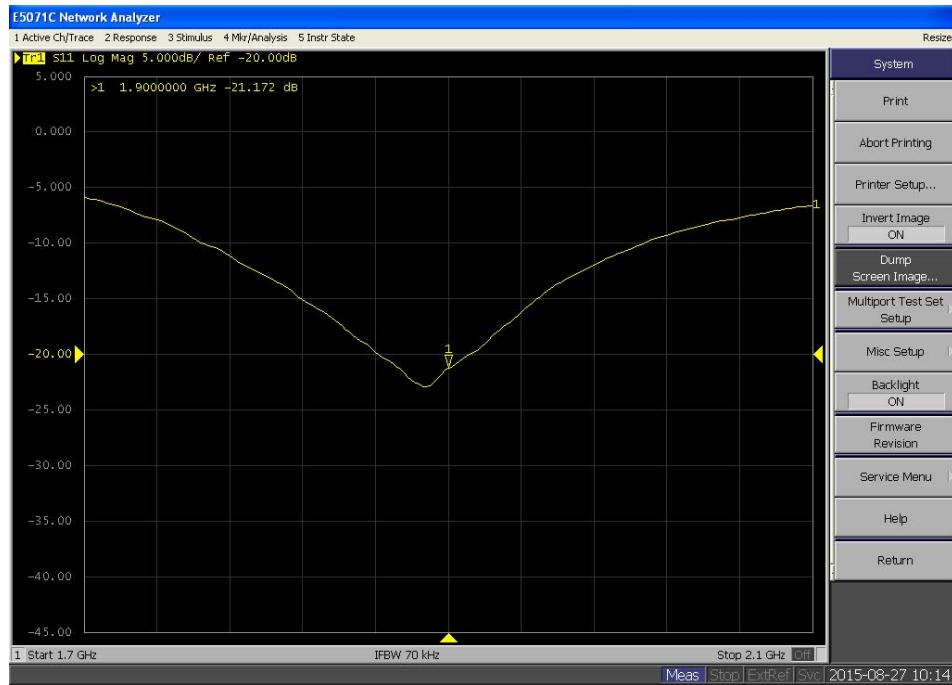


## 1900 Body

Calibrated impedance: 46.3 Ω; Measured impedance: 47.072 Ω (within 5Ω)

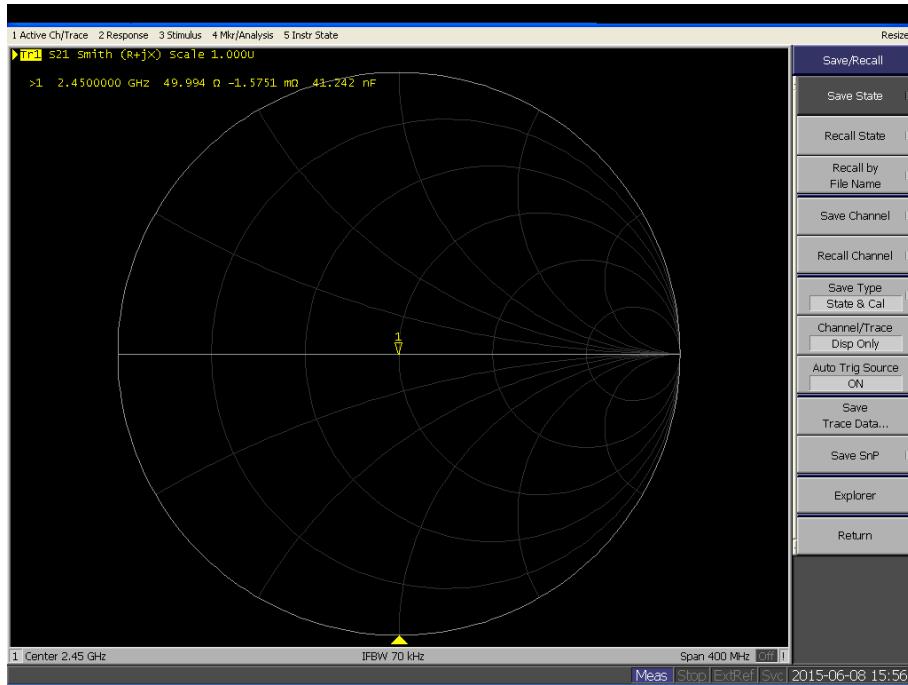


Calibrated return loss: -21.6 dB; Measured return loss: -21.172dB (within 20%)

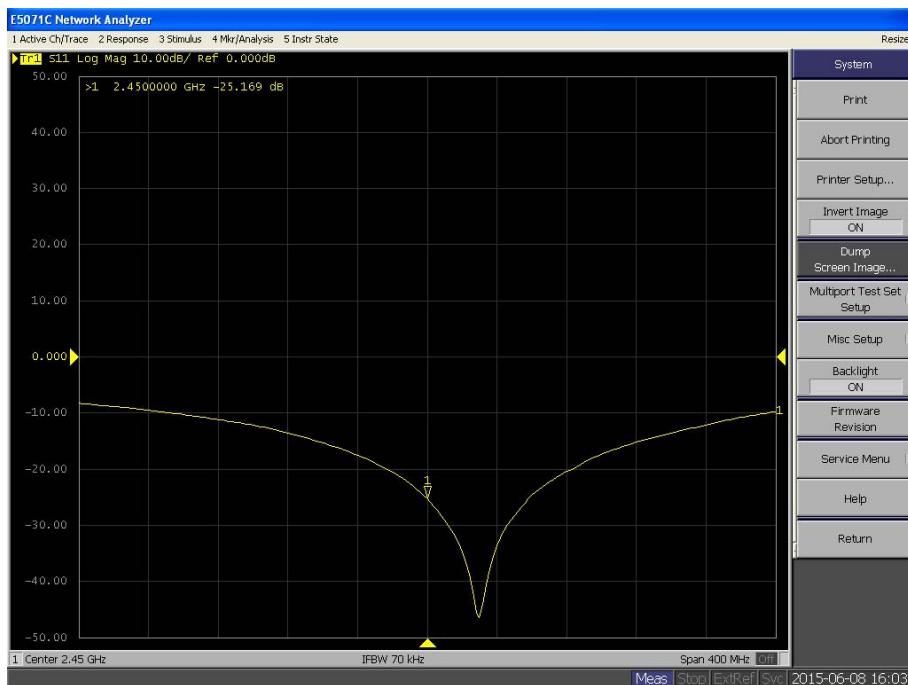


## 2450 Head

Calibrated impedance: 54.5  $\Omega$ ; Measured impedance: 49.994 $\Omega$  (within 5 $\Omega$ )

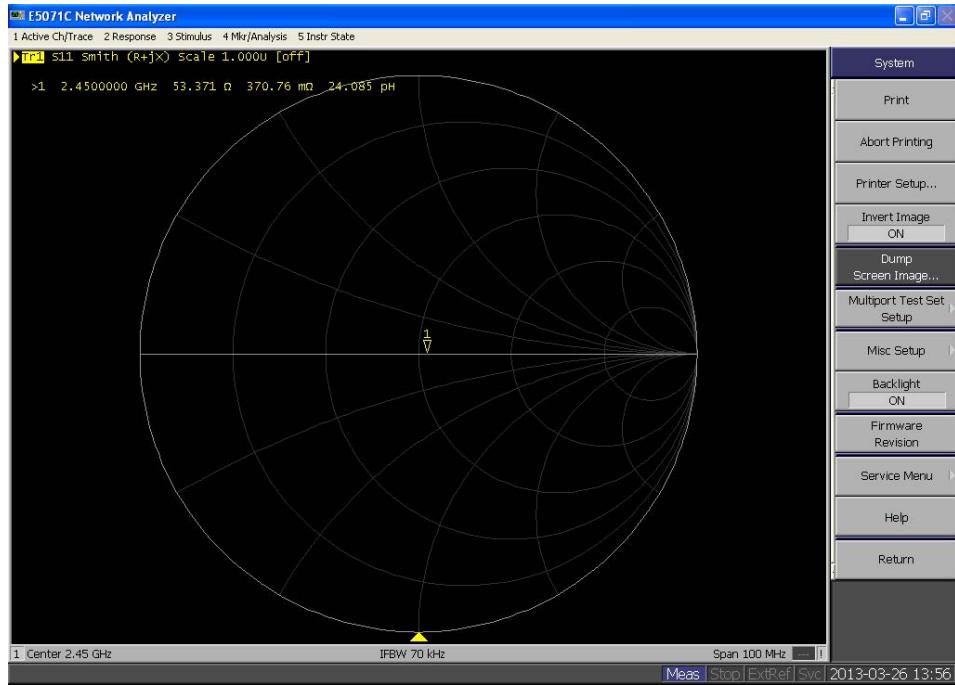


Calibrated return loss: -26.2 dB; Measured return loss: -25.169dB (within 20%)

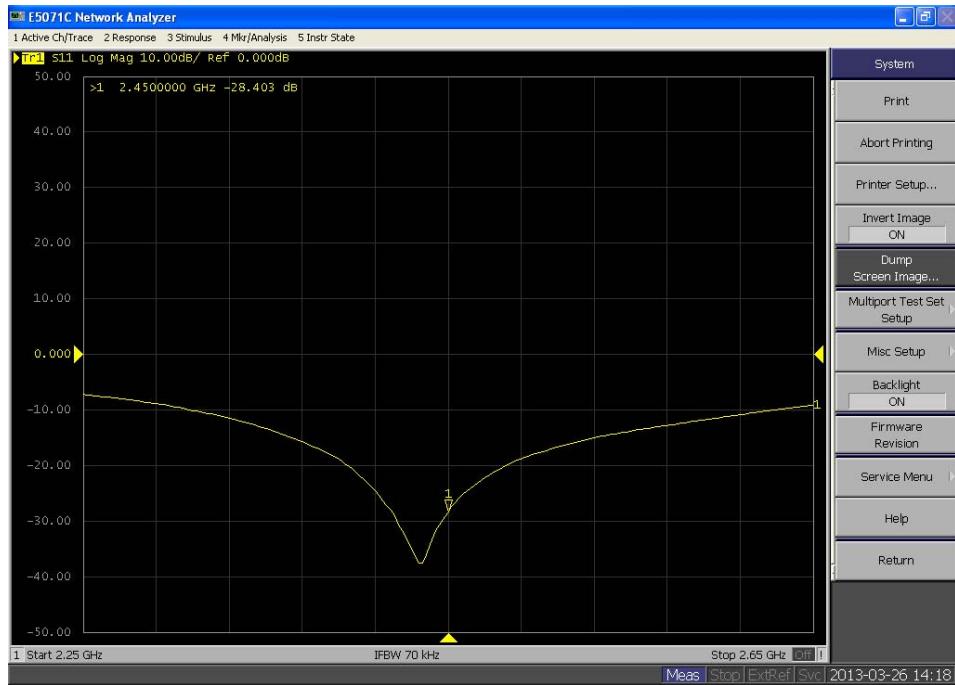


## 2450 Body

Calibrated impedance: 50.604 Ω; Measured impedance: 53.371 Ω (within 5Ω)



Calibrated return loss: -27.363 dB; Measured impedance: -28.403 dB (within 20%)



## 8. Conducted Power Measurement

Mode	Frequency (MHz)	Avg. Burst Power (dBm)	Duty Cycle Factor (dB)	Frame Power (dBm)	Max. Power (dBm)	Scaling Factor
Max. Power <SIM1>						
GSM850	824.2	32.20	-9.19	23.01	32.5	1.072
	836.4	32.32	-9.19	23.13	32.5	1.042
	848.8	32.47	-9.19	23.28	32.5	1.007
GPRS850(1 Slot)	824.2	32.18	-9.19	22.99	32.5	1.076
	836.4	32.29	-9.19	23.10	32.5	1.050
	848.8	32.45	-9.19	23.26	32.5	1.012
GPRS850(2 Slot)	824.2	29.28	-6.16	23.12	29.5	1.052
	836.4	29.33	-6.16	23.17	29.5	1.040
	848.8	29.48	-6.16	23.32	29.5	1.005
GPRS850(3 Slot)	<b>824.2</b>	<b>27.58</b>	<b>-4.42</b>	<b>23.16</b>	<b>28.0</b>	<b>1.102</b>
	<b>836.4</b>	<b>27.80</b>	<b>-4.42</b>	<b>23.38</b>	<b>28.0</b>	<b>1.047</b>
	<b>848.8</b>	<b>27.87</b>	<b>-4.42</b>	<b>23.45</b>	<b>28.0</b>	<b>1.030</b>
GPRS850(4 Slot)	824.2	26.28	-3.18	23.10	26.5	1.052
	836.4	26.42	-3.18	23.24	26.5	1.019
	848.8	26.50	-3.18	23.35	26.5	1.000
PCS1900	1850.2	30.86	-9.19	21.67	31.0	1.033
	1880.0	30.60	-9.19	21.41	31.0	1.096
	1909.8	30.71	-9.19	21.52	31.0	1.069
GPRS1900(1 Slot)	1850.2	30.83	-9.19	21.64	31.0	1.040
	1880.0	30.57	-9.19	21.38	31.0	1.104
	1909.8	30.68	-9.19	21.49	31.0	1.076
GPRS1900(2 Slot)	1850.2	27.76	-6.16	21.60	28.0	1.057
	1880.0	27.51	-6.16	21.35	28.0	1.119
	1909.8	27.73	-6.16	21.57	28.0	1.064
GPRS1900(3 Slot)	<b>1850.2</b>	<b>26.10</b>	<b>-4.42</b>	<b>21.68</b>	<b>26.5</b>	<b>1.096</b>
	<b>1880.0</b>	<b>26.37</b>	<b>-4.42</b>	<b>21.45</b>	<b>26.5</b>	<b>1.030</b>
	<b>1909.8</b>	<b>26.13</b>	<b>-4.42</b>	<b>21.71</b>	<b>26.5</b>	<b>1.089</b>
GPRS1900(4 Slot)	1850.2	24.69	-3.18	21.51	25.0	1.074
	1880.0	24.45	-3.18	21.27	25.0	1.135
	1909.8	24.66	-3.18	21.48	25.0	1.081
Max. Power <SIM2>						
GSM850	836.4	32.32	-9.19	23.13	32.5	1.042
PCS1900	1880.0	30.60	-9.19	21.41	31.0	1.096

Note 1: Scaling Factor = Max. Power(mW) / Avg. Burst Power(mW)

- 2: This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v05r02.
- 3: Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged powers were calculated from the measured burst-averaged power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 4: The bolded GPRS modes were selected for SAR testing according to the highest frame-averaged output power table per KDB 941225 D01v03.
- 5: GPRS(GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output power measurements and SAR to ensure GMSK modulation in the signal. Our Investigation has shown that CS1 - CS4 settings do not have any impact on the output levels or modulation in the GPRS modes.
- 6: EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8PSK modulation do not have an impact on output power.

**WCDMA/HSDPA/HSUPA**

Mode	3GPP Subtest	Band II (1900MHz) Channel			Band V (835MHz) Channel			MPR	
		Conducted Power (dBm)			Conducted Power (dBm)				
		9262	9400	9538	4132	4182	4233		
WCDMA R99	1	23.23	22.64	22.97	22.25	22.14	22.15	N/A	
Rel5 HSDPA	1	22.94	22.47	22.61	21.98	21.49	21.63	0	
	2	22.89	22.44	22.58	21.94	21.46	21.59	0	
	3	22.41	21.93	22.04	21.45	20.92	21.13	0.5	
	4	22.38	21.91	22.01	21.47	20.89	21.11	0.5	
Rel6 HSUPA	1	22.96	22.47	22.54	22.03	21.52	21.60	0.0	
	2	20.91	20.42	20.49	20.01	19.48	19.53	2.0	
	3	21.98	21.50	21.51	21.05	20.54	20.62	1.0	
	4	20.95	20.44	20.46	19.99	19.41	19.49	2.0	
	5	22.94	22.42	22.51	22.00	21.49	21.55	0.0	

Note: UMTS SAR was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03. HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.

Mode	Channel	Normal Power (dBm)	Max. Power (dBm)	Scaling Factor
WCDMA Band II (1900MHz)	9262	23.23	23.5	1.064
	9400	22.64	23.0	1.086
	9538	22.97	23.0	1.007
WCDMA Band V(835MHz)	4132	22.25	22.5	1.059
	4182	22.14	22.5	1.086
	4233	22.15	22.5	1.084

**WLAN output power**

Test Mode	Channel No.	Frequency (MHz)	Average Power (dBm)	Max. Average Power (dBm)	Scaling Factor
802.11b	01	2412	17.10	17.8	1.175
	06	2437	17.70	17.8	1.023
	11	2462	17.70	17.8	1.023
802.11g	01	2412	12.59	12.7	1.026
	06	2437	15.59	16.0	1.099
	11	2462	12.65	12.7	1.012
802.11n(20MHz)	01	2412	12.14	12.7	1.138
	06	2437	15.15	16.0	1.216
	11	2462	12.25	12.7	1.109

Note 1: Justification for reduced test configurations for Wi-Fi channels per KDB Publication 248227 D01v02.

2: For 2.4 GHz, highest average RF output power channel for the lowest data rate for IEEE 802.11b were selected for SAR evaluation. Other IEEE 802.11 modes (including 802.11g/n) were not investigated since the average output powers over all channels and data rates were not more than 0.25 dB higher than the tested channel in the lowest data rate of IEEE 802.11b mode.

3: When the maximum extrapolated peak SAR of the zoom scan for the maximum output channel is <1.6 W/kg and the reported 1g averaged SAR is <0.8 W/kg, SAR testing on other channels is not required. Otherwise, the other default (or corresponding required) test channels were additionally tested using the lowest data rate.

**BT output power**

Test Mode	Channel No.	Frequency (MHz)	Average Power (dBm)	Max. Power (dBm)	Scaling Factor
DH5	00	2402	4.15	5.0	1.216
	39	2441	4.65	5.0	1.084
	79	2480	5.10	6.0	1.230
2DH5	00	2402	4.86	5.0	1.033
	39	2441	5.45	6.0	1.135
	79	2480	5.77	6.0	1.054
3DH5	00	2402	4.76	5.0	1.057
	39	2441	5.36	6.0	1.159
	79	2480	5.70	6.0	1.072
BLE	00	2402	-5.06	-5.0	1.014
	19	2440	-4.77	-4.2	1.140
	39	2480	-4.27	-4.2	1.016

## 9. Test Results

### 9.1. Test Results

SAR MEASUREMENT														
Ambient Temperature (°C) : $21.5 \pm 2$					Relative Humidity (%): 52									
Liquid Temperature (°C) : $21.0 \pm 2$					Depth of Liquid (cm):>15									
Product: Tablet PC														
Test Mode: GSM850 <SIM1>														
Test Position Head	Antenna Position	Frequency		Frame Power (dBm)	Power Drift ( $<\pm 0.2$ )	SAR 1g (W/kg)	Scaling Factor	Scaled SAR 1g (W/kg)	Limit (W/kg)					
		Channel	MHz											
Left-Cheek	Fixed	128	824.2	23.01	--	--	1.072	--	1.6					
Left-Cheek	Fixed	189	836.4	23.13	0.17	0.205	1.042	0.214	1.6					
Left-Cheek	Fixed	251	848.8	23.28	--	--	1.007	--	1.6					
Left-Tilted	Fixed	189	836.4	23.13	0.17	0.133	1.042	0.139	1.6					
Right-Cheek	Fixed	128	824.2	23.01	--	--	1.072	--	1.6					
Right-Cheek	Fixed	189	836.4	23.13	0.05	0.218	1.042	0.227	1.6					
Right-Cheek	Fixed	251	848.8	23.28	--	--	1.007	--	1.6					
Right-Tilted	Fixed	189	836.4	23.13	0.05	0.116	1.042	0.121	1.6					
Test Mode: GSM850 <SIM2>														
Right-Cheek	Fixed	189	836.4	23.13	0.05	0.203	1.042	0.212	1.6					
Note: when the 1-g SAR is $\leq 0.8$ W/kg, testing for low and high channel is optional, refer to KDB 447498 D01 v05r02.														

SAR MEASUREMENT												
Ambient Temperature (°C) : 21.5 ± 2					Relative Humidity (%): 52							
Liquid Temperature (°C) : 21.0 ± 2					Depth of Liquid (cm):>15							
Product: Tablet PC												
Test Mode: GSM850												
Test Position Body (0mm gap)	Antenna Position	Frequency		Frame Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Scaling Factor	Scaled SAR 1g (W/kg)				
		Channel	MHz					Limit (W/kg)				
Bottom	Fixed	128	824.2	23.01	--	--	1.072	--	1.6			
Bottom	Fixed	189	836.4	23.13	0.13	0.474	1.042	0.494	1.6			
Bottom	Fixed	251	848.8	23.28	--	--	1.007	--	1.6			
Test Mode: GPRS850-3slot												
Bottom	Fixed	128	824.2	23.16	0.19	0.937	1.102	1.030	1.6			
Bottom	Fixed	189	836.4	23.38	0.01	1.090	1.047	1.140	1.6			
Bottom*	Fixed	189	836.4	23.38	0.01	1.030	1.047	1.080	1.6			
Bottom	Fixed	251	848.8	23.45	0.00	0.807	1.030	0.831	1.6			
Primary Landscape	Fixed	189	836.4	23.38	0.04	0.188	1.047	0.197	1.6			
Primary Portrait	Fixed	189	836.4	23.38	-0.06	0.046	1.047	0.048	1.6			
Secondary Portrait	Fixed	189	836.4	23.38	-0.04	0.368	1.047	0.385	1.6			
Secondary Landscape	Fixed	189	836.4	23.38	-0.03	0.083	1.047	0.087	1.6			
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 447498 D01 v05r02.												

SAR MEASUREMENT														
Ambient Temperature (°C) : 21.5 ± 2					Relative Humidity (%): 52									
Liquid Temperature (°C) : 21.0 ± 2					Depth of Liquid (cm):>15									
Product: Tablet PC														
Test Mode: PCS1900 <SIM1>														
Test Position Head	Antenna Position	Frequency		Frame Power (dBm)	Power Drift ( $<\pm 0.2$ )	SAR 1g (W/kg)	Scaling Factor	Scaled SAR 1g (W/kg)	Limit (W/kg)					
		Channel	MHz											
Left-Cheek	Fixed	512	1850.2	21.67	--	--	1.033	--	1.6					
Left-Cheek	Fixed	661	1880	21.41	0.05	0.170	1.096	0.186	1.6					
Left-Cheek	Fixed	810	1909.8	21.52	--	--	1.069	--	1.6					
Left-Tilted	Fixed	661	1880.0	21.41	-0.06	0.139	1.096	0.152	1.6					
Right-Cheek	Fixed	512	1850.2	21.67	--	--	1.033	--	1.6					
Right-Cheek	Fixed	661	1880	21.41	0.14	0.230	1.096	0.252	1.6					
Right-Cheek	Fixed	810	1909.8	21.52	--	--	1.069	--	1.6					
Right-Tilted	Fixed	661	1880.0	21.41	0.03	0.094	1.096	0.103	1.6					
Test Mode: PCS1900 <SIM2>														
Right-Cheek	Fixed	661	1880	21.41	0.04	0.225	1.096	0.247	1.6					
Note: when the 1-g SAR is $\leq 0.8$ W/kg, testing for low and high channel is optional, refer to KDB 447498 D01 v05r02.														

SAR MEASUREMENT														
Ambient Temperature (°C) : $21.5 \pm 2$					Relative Humidity (%): 52									
Liquid Temperature (°C) : $21.0 \pm 2$					Depth of Liquid (cm):>15									
Product: Tablet PC														
Test Mode: PCS1900														
Test Position Body (0mm gap)	Antenna Position	Frequency		Frame Power (dBm)	Power Drift ( $<\pm 0.2$ )	SAR 1g (W/kg)	Scaling Factor	Scaled SAR 1g (W/kg)	Limit (W/kg )					
		Channel	MHz											
Bottom	Fixed	512	1850.2	21.67	--	--	1.033	--	1.6					
Bottom	Fixed	661	1880	21.41	0.05	0.608	1.096	0.666	1.6					
Bottom	Fixed	810	1909.8	21.52	--	--	1.069	--	1.6					
Test Mode: GPRS1900-3slot														
Bottom	Fixed	512	1850.2	21.68	0.01	1.160	1.096	1.270	1.6					
Bottom	Fixed	661	1880	21.45	0.20	1.190	1.030	1.230	1.6					
Bottom*	Fixed	661	1880	21.45	0.20	1.140	1.030	1.170	1.6					
Bottom	Fixed	810	1909.8	21.71	0.04	1.140	1.089	1.240	1.6					
Primary Landscape	Fixed	661	1880	21.45	-0.14	0.253	1.030	0.261	1.6					
Secondary Portrait	Fixed	661	1880	21.45	-0.02	0.134	1.030	0.138	1.6					
Secondary Landscape	Fixed	661	1880	21.45	0.12	0.012	1.030	0.012	1.6					
Note: when the 1-g SAR is $\leq 0.8$ W/kg, testing for low and high channel is optional, refer to KDB 447498 D01 v05r02.														

SAR MEASUREMENT														
Ambient Temperature (°C) : 21.5 ± 2					Relative Humidity (%): 52									
Liquid Temperature (°C) : 21.0 ± 2					Depth of Liquid (cm):>15									
Product: Tablet PC														
Test Mode: WCDMA Band II														
Test Position Head	Antenna Position	Frequency		Conduct ed Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Scaling Factor	Scaled SAR 1g (W/kg)	Limit (W/kg)					
		Channel	MHz											
Left-Cheek	Fixed	9262	1852.4	23.23	--	--	1.064	--	1.6					
Left-Cheek	Fixed	9400	1880	22.64	0.13	0.090	1.086	0.098	1.6					
Left-Cheek	Fixed	9538	1907.6	22.97	--	--	1.007	--	1.6					
Left-Tilt	Fixed	9400	1880	22.64	-0.05	0.040	1.086	0.043	1.6					
Right-Cheek	Fixed	9262	1852.4	23.23	--	--	1.064	--	1.6					
Right-Cheek	Fixed	9400	1880	22.64	0.13	0.119	1.086	0.129	1.6					
Right-Cheek	Fixed	9538	1907.6	22.97	--	--	1.007	--	1.6					
Right-Tilt	Fixed	9400	1880	22.64	-0.16	0.058	1.086	0.063	1.6					
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 447498.														

SAR MEASUREMENT												
Ambient Temperature (°C): $21.5 \pm 2$					Relative Humidity (%): 52							
Liquid Temperature (°C): $21.0 \pm 2$					Depth of Liquid (cm):>15							
Product: Tablet PC												
Test Mode: WCDMA Band II												
Test Position Body (0mm gap)	Antenna Position	Frequency		Conduct ed Power (dBm)	Power Drift ( $<\pm 0.2$ )	SAR 1g (W/kg)	Scaling Factor	Scaled SAR 1g (W/kg)				
		Channel	MHz									
Bottom	Fixed	9262	1852.4	23.23	--	--	1.064	--				
Bottom	Fixed	9400	1880	22.64	-0.01	0.310	1.086	0.337				
Bottom	Fixed	9538	1907.6	22.97	--	--	1.007	--				
Primary Landscape	Fixed	9400	1880	22.64	-0.01	0.332	1.086	0.361				
Secondary Portrait	Fixed	9400	1880	22.64	-0.10	0.510	1.086	0.554				
Secondary Landscape	Fixed	9400	1880	22.64	-0.10	0.486	1.086	0.528				
Note: when the 1-g SAR is $\leq 0.8$ W/kg, testing for low and high channel is optional, refer to KDB 447498 D01 v05r02.												

SAR MEASUREMENT														
Ambient Temperature (°C) : 21.5 ± 2					Relative Humidity (%): 52									
Liquid Temperature (°C) : 21.0 ± 2					Depth of Liquid (cm):>15									
Product: Tablet PC														
Test Mode: WCDMA Band V														
Test Position Head	Antenna Position	Frequency		Conduct ed Power (dBm)	Power Drift (<±0.2)	SAR 1g (W/kg)	Scaling Factor	Scaled SAR 1g (W/kg)	Limit (W/kg)					
		Channel	MHz											
Left-Cheek	Fixed	4132	824.4	22.25	--	--	1.059	--	1.6					
Left-Cheek	Fixed	4182	836.4	22.14	-0.08	0.016	1.086	0.017	1.6					
Left-Cheek	Fixed	4233	846.6	22.15	--	--	1.084	--	1.6					
Left-Tilt	Fixed	4182	836.4	22.14	0.18	0.025	1.086	0.027	1.6					
Right-Cheek	Fixed	4132	824.4	22.25	--	--	1.059	--	1.6					
Right-Cheek	Fixed	4182	836.4	22.14	0.07	0.052	1.086	0.056	1.6					
Right-Cheek	Fixed	4233	846.6	22.15	--	--	1.084	--	1.6					
Right-Tilt	Fixed	4182	836.4	22.14	-0.05	0.055	1.086	0.060	1.6					
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional, refer to KDB 447498.														

SAR MEASUREMENT												
Ambient Temperature (°C): $21.5 \pm 2$					Relative Humidity (%): 52							
Liquid Temperature (°C): $21.0 \pm 2$					Depth of Liquid (cm):>15							
Product: Tablet PC												
Test Mode: WCDMA Band V												
Test Position Body (0mm gap)	Antenna Position	Frequency		Conduct ed Power (dBm)	Power Drift ( $<\pm 0.2$ )	SAR 1g (W/kg)	Scaling Factor	Scaled SAR 1g (W/kg)				
		Channel	MHz									
Bottom	Fixed	4132	824.4	22.25	--	--	1.059	--				
Bottom	Fixed	4182	836.4	22.14	-0.05	0.030	1.086	0.033				
Bottom	Fixed	4233	846.6	22.15	--	--	1.084	--				
Primary Landscape	Fixed	4182	836.4	22.14	0.06	0.045	1.086	0.049				
Secondary Portrait	Fixed	4182	836.4	22.14	0.01	0.333	1.086	0.362				
Secondary Landscape	Fixed	4182	836.4	22.14	.01	0.246	1.086	0.267				
Note: when the 1-g SAR is $\leq 0.8$ W/kg, testing for low and high channel is optional, refer to KDB 447498 D01 v05r02.												

SAR MEASUREMENT												
Ambient Temperature (°C) : 21.5 ± 2					Relative Humidity (%): 52							
Liquid Temperature (°C) : 21.0 ± 2					Depth of Liquid (cm):>15							
Product: Tablet PC												
Test Mode: 802.11b												
Test Position Head	Antenna Position	Frequency		Conducted Power (dBm)	Power Drift ( $<\pm 0.2$ )	SAR 1g (W/kg)	Scaling Factor	Scaled SAR 1g (W/kg)				
		Channel	MHz									
Left-Cheek	Fixed	01	2412	17.10	--	--	1.175	--				
Left-Cheek	Fixed	06	2437	17.70	0.17	0.153	1.023	0.157				
Left-Cheek	Fixed	11	2462	17.70	--	--	1.023	--				
Left-Tilt	Fixed	06	2437	17.70	-0.04	0.107	1.023	0.109				
Right-Cheek	Fixed	01	2412	17.10	--	--	1.175	--				
Right-Cheek	Fixed	06	2437	17.70	0.07	0.098	1.023	0.100				
Right-Cheek	Fixed	11	2462	17.70	--	--	1.023	--				
Right-Tilt	Fixed	06	2437	17.70	-0.13	0.089	1.023	0.091				
Note: when the 1-g SAR is $\leq 0.8$ W/kg, testing for low and high channel is optional, refer to KDB 447498.												

SAR MEASUREMENT														
Ambient Temperature (°C) : 21.5 ± 2					Relative Humidity (%): 52									
Liquid Temperature (°C) : 21.0 ± 2					Depth of Liquid (cm):>15									
Product: Tablet PC														
Test Mode: 802.11b														
Test Position Head	Antenna Position	Frequency		Conducted Power (dBm)	Scaled SAR 1g (W/kg)	Duty cycle (%)	Duty factor	Duty Cycle Scaled SAR 1g (W/kg)	Limit (W/kg)					
		Channe l	MHz											
Left-Cheek	Fixed	01	2412	17.10	--	99	1.010	--	1.6					
Left-Cheek	Fixed	06	2437	17.70	0.157	99	1.010	0.159	1.6					
Left-Cheek	Fixed	11	2462	17.70	--	99	1.010	--	1.6					
Left-Tilt	Fixed	06	2437	17.70	0.109	99	1.010	0.110	1.6					
Right-Cheek	Fixed	01	2412	17.10	--	99	1.010	--	1.6					
Right-Cheek	Fixed	06	2437	17.70	0.100	99	1.010	0.101	1.6					
Right-Cheek	Fixed	11	2462	17.70	--	99	1.010	--	1.6					
Right-Tilt	Fixed	06	2437	17.70	0.091	99	1.010	0.092	1.6					

SAR MEASUREMENT														
Ambient Temperature (°C): $21.5 \pm 2$					Relative Humidity (%): 52									
Liquid Temperature (°C): $21.0 \pm 2$					Depth of Liquid (cm): >15									
Product: Tablet PC														
Test Mode: 802.11b														
Test Position Body (0mm gap)	Antenna Position	Frequency		Conducted Power (dBm)	Power Drift ( $<\pm 0.2$ )	SAR 1g (W/kg)	Scaling Factor	Scaled SAR 1g (W/kg)	Limit (W/kg)					
		Channel	MHz											
Bottom	Fixed	01	2412	17.10	--	--	1.175	--	1.6					
Bottom	Fixed	06	2437	17.70	0.17	<b>0.588</b>	1.023	<b>0.602</b>	1.6					
Bottom	Fixed	11	2462	17.70	--	--	1.023	--	1.6					
Primary Portrait	Fixed	06	2437	17.70	-0.14	<b>0.105</b>	1.023	<b>0.107</b>	1.6					
Secondary Landscape	Fixed	06	2437	17.70	0.17	<b>0.562</b>	1.023	<b>0.575</b>	1.6					
Note: when the 1-g SAR is $\leq 0.8$ W/kg, testing for low and high channel is optional, refer to KDB 447498.														

SAR MEASUREMENT														
Ambient Temperature (°C) : 21.5 ± 2					Relative Humidity (%): 52									
Liquid Temperature (°C) : 21.0 ± 2					Depth of Liquid (cm):>15									
Product: Tablet PC														
Test Mode: 802.11b														
Test Position Body (0mm gap)	Antenna Position	Frequency		Conduc- ted Power (dBm)	Scaled SAR 1g (W/kg)	Duty cycle (%)	Duty factor	Duty Cycle Scaled SAR 1g (W/kg)	Limit (W/kg)					
		Channel	MHz											
Bottom	Fixed	01	2412	17.10	--	99	1.010	--	1.6					
Bottom	Fixed	06	2437	17.70	0.602	99	1.010	0.608	1.6					
Bottom	Fixed	11	2462	17.70	--	99	1.010	--	1.6					
Primary Portrait	Fixed	06	2437	17.70	0.107	99	1.010	0.108	1.6					
Secondary Landscape	Fixed	06	2437	17.70	0.575	99	1.010	0.581	1.6					

Note1: Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg;

Note2: When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.

Note3: Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

## **9.2. SAR Test Notes**

### **9.2.1. General Notes**

1. Batteries are fully charged at the beginning of the SAR measurements.
2. Liquid tissue depth was at least 15.0 cm for all frequencies.
3. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
4. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v05r02.
5. Per FCC KDB 616217 D04 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D01v05r02 was applied to determine SAR test exclusion for adjacent edge configurations. SAR tests were required for bottom and secondary landscape for the WLAN antenna and bottom and primary landscape for the BT Antenna.

#### **WLAN/BT Notes:**

1. Justification for reduced test configurations for Wi-Fi channels per KDB Publication 248227 D01v02 and April 2010 FCC/TCB Meeting Notes for 2.4 GHz Wi-Fi: Highest average RF output power channel for the lowest data rate was selected for SAR evaluation in 802.11b. Other IEEE 802.11 modes (including 802.11g/n) were not investigated since the average output powers over all channels and data rates were not more than 0.25 dB higher than the tested channel in the lowest data rate of IEEE 802.11b mode.
2. When the maximum extrapolated peak SAR of the zoom scan for the maximum output channel is <1.6 W/kg and the reported 1g averaged SAR is <0.8 W/kg, SAR testing on other default channels is not required.

### 9.2.2. Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D01v05r02 IV.C.1.iii, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is  $\leq 1.6 \text{W/kg}$ . When standalone SAR is not required to be measured, per FCC KDB 447498 D01v05r02 4.3.2.2, the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission assessment involving that transmitter.

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{7.5} * \frac{(\text{Max Power of channel, mW})}{\text{Min. Separation Distance, mm}}$$

**Estimated SAR for Bluetooth**

Mode	Frequency	Maximum Allowed Power	Separation Distance (Head)	Estimated SAR (Held-to-Ear)	Separation Distance (Body)	Estimated SAR (Body)
	[MHz]	[dBm]	[mm]	[W/kg]	[mm]	[W/kg]
Bluetooth	2480	6.0	5	0.167	5	0.167

### 9.2.3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenario with Wi-Fi

Configuration	Mode	Max. Scaled SAR (W/kg)	Wi-Fi SAR (W/kg)	$\Sigma$ SAR (W/kg)
Head	GSM850	0.227	0.157	0.384
Head	PCS1900	0.252	0.157	0.409
Head	WCDMA Band II	0.129	0.157	0.286
Head	WCDMA Band V	0.06	0.157	0.217
Body	GSM850	0.494	0.608	1.102
Body	PCS1900	0.666	0.608	<b>1.274</b>
Body	WCDMA Band II	0.554	0.608	1.162
Body	WCDMA Band V	0.362	0.608	0.970

Simultaneous Transmission Scenario with Bluetooth

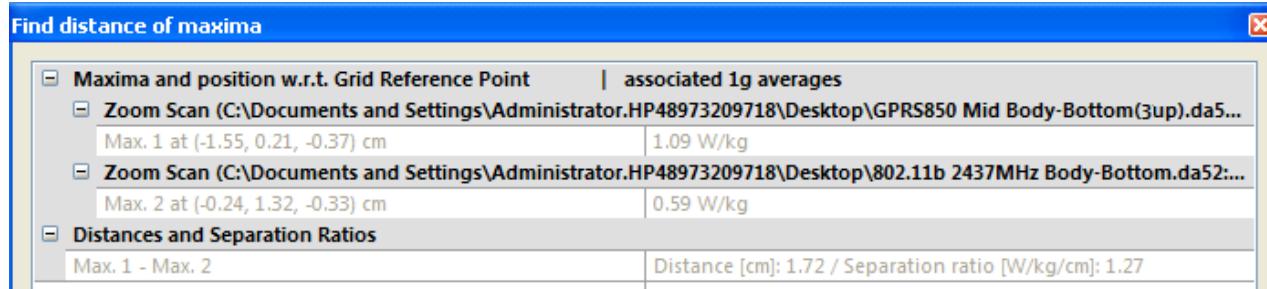
Configuration	Mode	Max. Scaled SAR (W/kg)	Bluetooth SAR (W/kg)	$\Sigma$ SAR (W/kg)
Head	GSM850	0.227	0.167	0.394
Head	PCS1900	0.252	0.167	0.419
Head	WCDMA Band II	0.129	0.167	0.296
Head	WCDMA Band V	0.06	0.167	0.227
Body	GSM850	0.494	0.167	0.661
Body	PCS1900	0.666	0.167	<b>0.833</b>
Body	WCDMA Band II	0.554	0.167	0.721
Body	WCDMA Band V	0.362	0.167	0.529

Simultaneous Transmission Scenario (Hotspot)

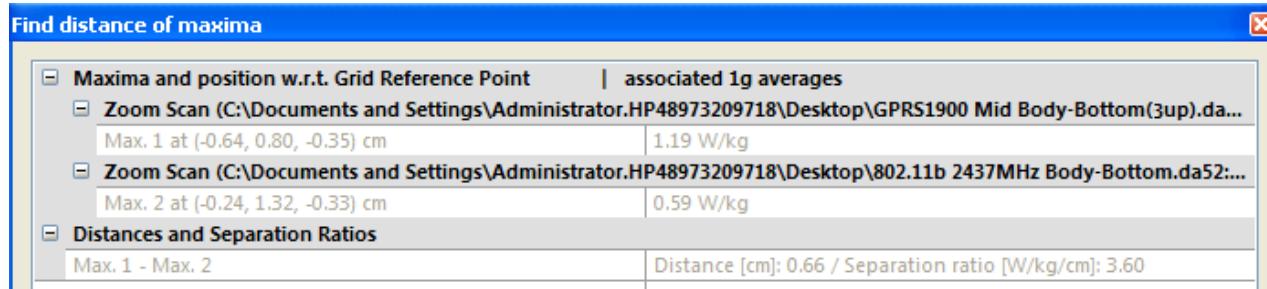
Simult Tx	Configuration	GPRS850 SAR (W/kg)	Wi-Fi SAR (W/kg)	Σ SAR (W/kg)
Body	Bottom	1.14	0.608	1.748
	Primary Landscape	0.197	--	0.197
	Primary Portrait	0.048	0.108	0.156
	Secondary Landscape	0.087	0.581	0.668
	Secondary Portrait	0.385	--	0.385
Simult Tx	Configuration	GPRS1900 SAR (W/kg)	Wi-Fi SAR (W/kg)	Σ SAR (W/kg)
Body	Bottom	1.27	0.608	1.878
	Primary Landscape	0.261	--	0.261
	Primary Portrait	--	0.108	0.108
	Secondary Landscape	0.012	0.581	0.593
	Secondary Portrait	0.138	--	0.138
Simult Tx	Configuration	WCDMA Band II SAR (W/kg)	Wi-Fi SAR (W/kg)	Σ SAR (W/kg)
Body	Bottom	0.337	0.608	0.945
	Primary Landscape	0.361	--	0.361
	Primary Portrait	--	0.108	0.108
	Secondary Landscape	0.528	0.581	1.109
	Secondary Portrait	0.554	--	0.554
Simult Tx	Configuration	WCDMA Band V SAR (W/kg)	Wi-Fi SAR (W/kg)	Σ SAR (W/kg)
Body	Bottom	0.033	0.608	0.641
	Primary Landscape	0.049	--	0.049
	Primary Portrait	--	0.108	0.108
	Secondary Landscape	0.267	0.581	0.848
	Secondary Portrait	0.362	--	0.362

Simult Tx	Configuration	$\Sigma$ SAR (W/kg)	Peak SAR location separation (mm)	SAR to peak location separation ratio
Body	GPRS850&WIFI	1.748	127	0.018
	GPRS1900&WIFI	1.878	66	0.039

Peak SAR location separation of GPRS850 and WIFI:



Peak SAR location separation of GPRS1900 and WIFI:



Result: The SAR to peak location separation ratio is less than 0.04, so simultaneous transmission is not applicable.

Note: When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by  $(\text{SAR1} + \text{SAR2})1.5/\text{R}_i$ , rounded to two decimal digits, and must be  $\leq 0.04$  for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

#### **9.2.4. Simultaneous Transmission Conclusion**

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v05r02.

## Appendix A. SAR System Validation Data

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

System Check Head 835MHz

**DUT: Dipole 835 MHz D835V2; Type: D835V2**

Communication System: UID 10000, CW; Communication System Band: D835 (835.0 MHz); Duty Cycle:

1:1; Frequency: 835 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.88$  S/m;  $\epsilon_r = 41.14$ ;  $\rho = 1000$

kg/m<sup>3</sup>; Phantom section: Flat Section ; Input Power=250mW

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

DASY5 Configuration:

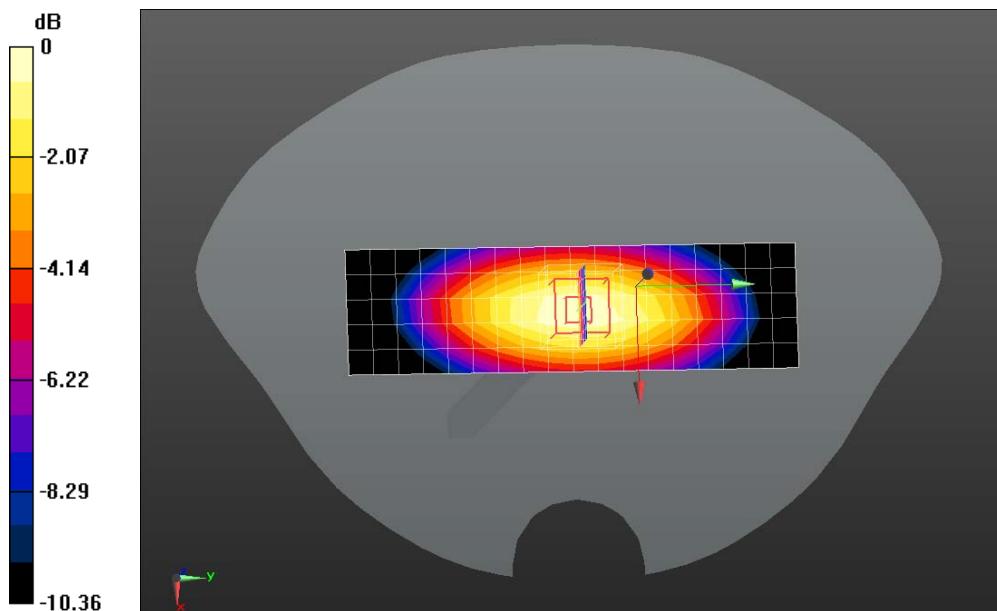
- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**Configuration/System Check GSM850 Head/Area Scan (6x19x1):** Measurement grid: dx=10mm, dy=10mm, Maximum value of SAR (measured) = 2.51 W/kg

**Configuration/System Check GSM850 Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 53.791 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.68 W/kg

**SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.61 W/kg** Maximum value of SAR (measured) = 2.64 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

System Check Head 1900MHz

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2**

Communication System: UID 10000, CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle: 1:1; Frequency: 1900 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.45$  S/m;  $\epsilon_r = 38.88$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Input Power=250mW

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

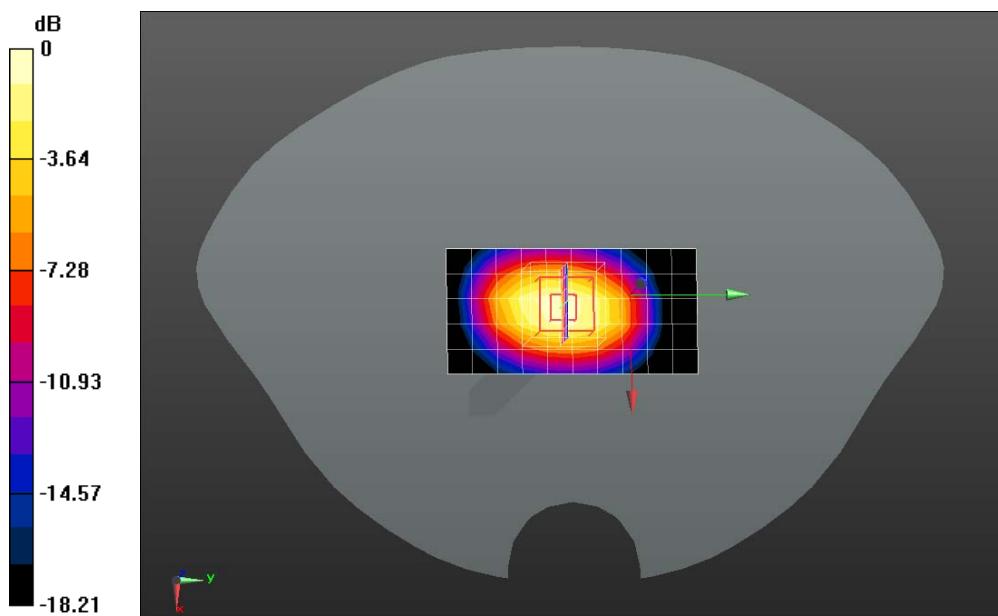
**Configuration/System Check Head 1900MHz/Area Scan (6x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 9.43 W/kg

**Configuration/System Check Head 1900MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 85.802 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 18.3 W/kg

**SAR(1 g) = 9.55 W/kg; SAR(10 g) = 4.87 W/kg** Maximum value of SAR (measured) = 10.8 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

System Check Head 2450MHz

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2**

Communication System: UID 0, CW; Communication System Band: D2450(2450MHz); Duty Cycle: 1:1;

Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.85$  S/m;  $\epsilon_r = 39.76$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section ; Input Power=250mW

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

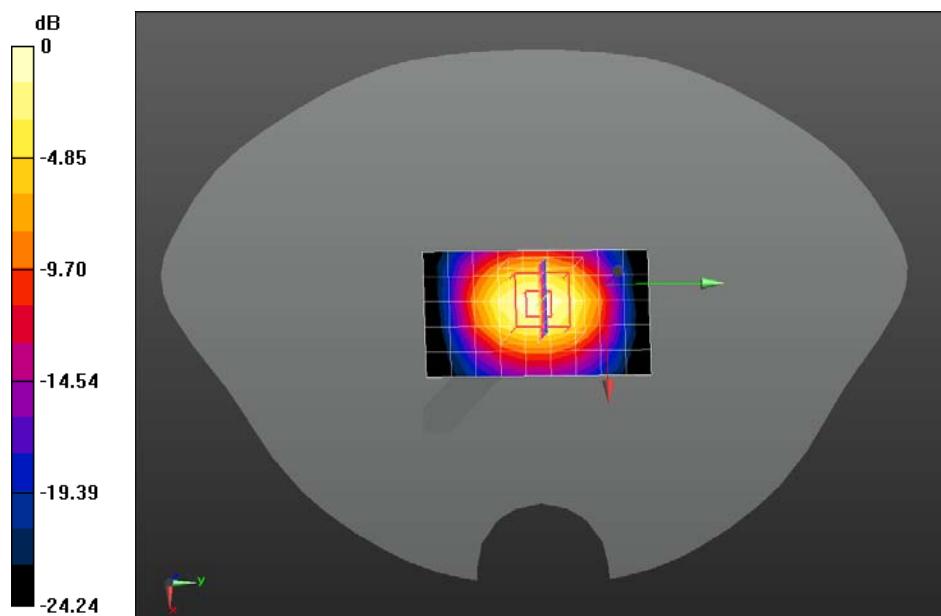
**Configuration/System Check Head 2450MHz/Area Scan (6x10x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 14.1 W/kg

**Configuration/System Check Head 2450MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 86.905 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 30.2 W/kg

**SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.02 W/kg** Maximum value of SAR (measured) = 15.4 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

System Check Body 835MHz

**DUT: Dipole 835 MHz D835V2; Type: D835V2**

Communication System: UID 10000, CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Frequency: 835 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.97$  S/m;  $\epsilon_r = 52.89$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Flat Section ; Input Power=250mW

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

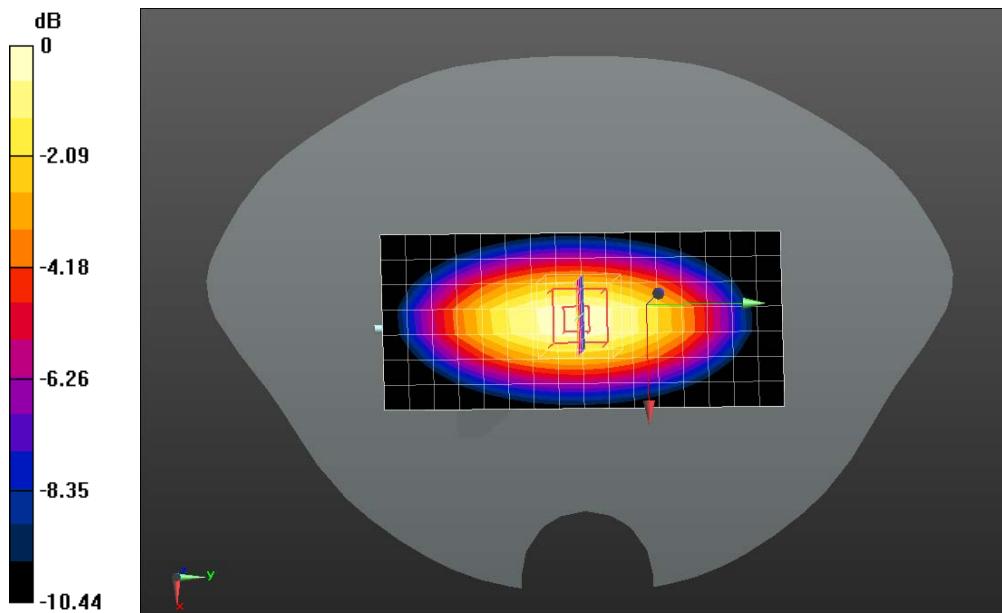
**Configuration/System Check Body 835MHz/Area Scan (8x17x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.35 W/kg

**Configuration/System Check Body 835MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 52.328 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.55 W/kg

**SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.53 W/kg** Maximum value of SAR (measured) = 2.54 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

System Check Body 1900MHz

**DUT: Dipole 1900 MHz D1900V2; Type: D1900V2**

Communication System: UID 10000, CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle: 1:1; Frequency: 1900 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.53$  S/m;  $\epsilon_r = 52.93$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section; Input Power=250mW

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

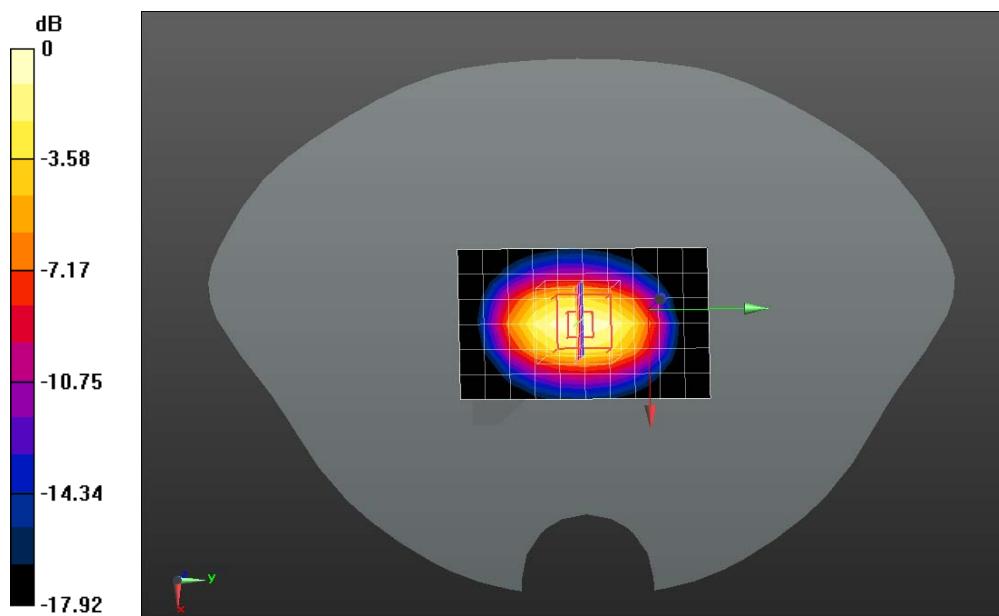
**Configuration/System Check Body 1900MHz/Area Scan (7x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 10.8 W/kg

**Configuration/System Check Body 1900MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 85.743 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 18.2 W/kg

**SAR(1 g) = 9.72 W/kg; SAR(10 g) = 4.99 W/kg** Maximum value of SAR (measured) = 10.9 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

System Check Body 2450MHz

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2**

Communication System: UID 0, CW; Communication System Band: D2450(2450MHz); Duty Cycle: 1:1;

Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.99$  S/m;  $\epsilon_r = 52.25$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section ; Input Power=250mW

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

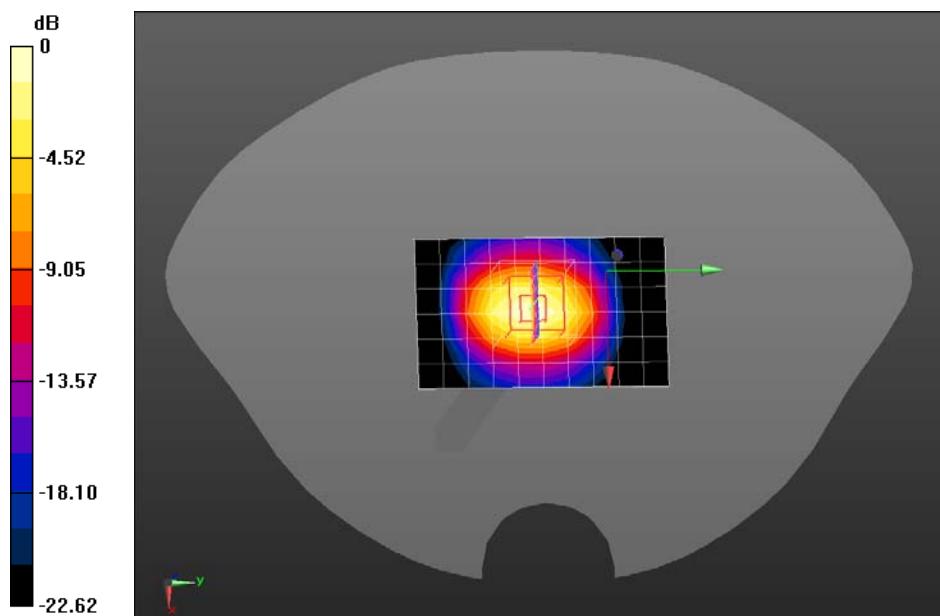
**Configuration/System Check Body 2450MHz/Area Scan (7x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.4 W/kg

**Configuration/System Check Body 2450MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm, Reference Value = 82.154 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 26.3 W/kg

**SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.65 W/kg** Maximum value of SAR (measured) = 14.3 W/kg



## Appendix B. SAR measurement Data

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GSM850 Mid Touch-Left

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.87$  S/m;  $\epsilon_r = 41.11$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

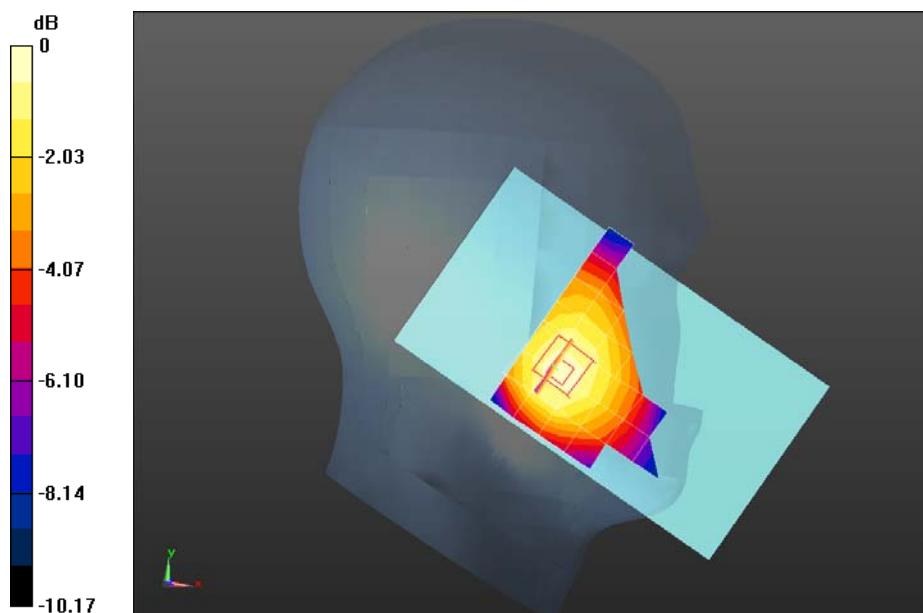
**Configuration/GSM850 Mid Touch-Left/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.259 W/kg

**Configuration/GSM850 Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 3.848 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.347 W/kg

**SAR(1 g) = 0.205 W/kg; SAR(10 g) = 0.189 W/kg** Maximum value of SAR (measured) = 0.278 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GSM850 Mid Tilt-Left

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.87$  S/m;  $\epsilon_r = 41.11$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

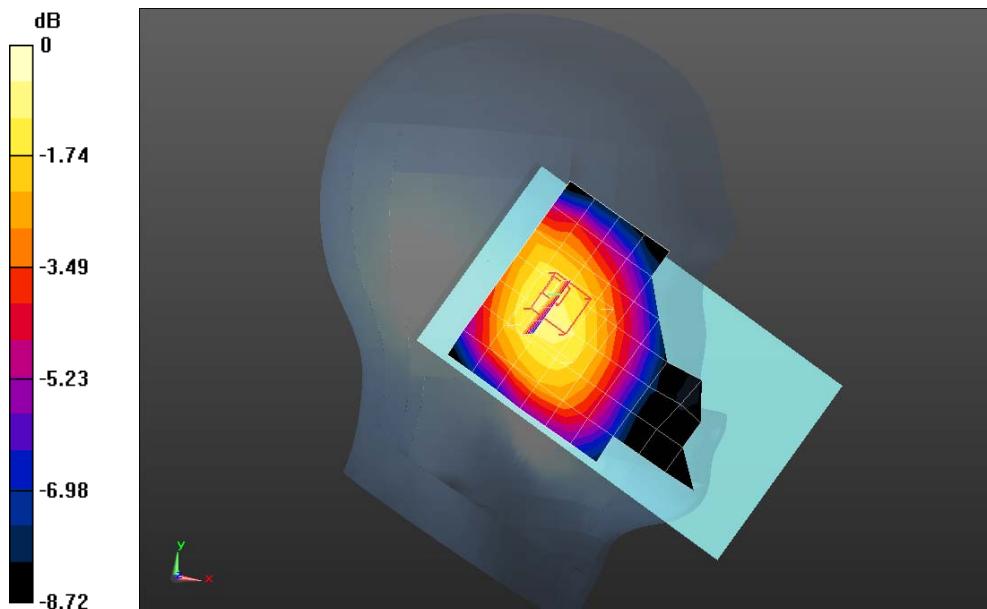
**Configuration/GSM850 Mid Tilt-Left/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.113 W/kg

**Configuration/GSM850 Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 6.518 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.166 W/kg

**SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.099 W/kg** Maximum value of SAR (measured) = 0.138 W/kg



0 dB = 0.138 W/kg = -8.60 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GSM850 Mid Touch-Right

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.87$  S/m;  $\epsilon_r = 41.11$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

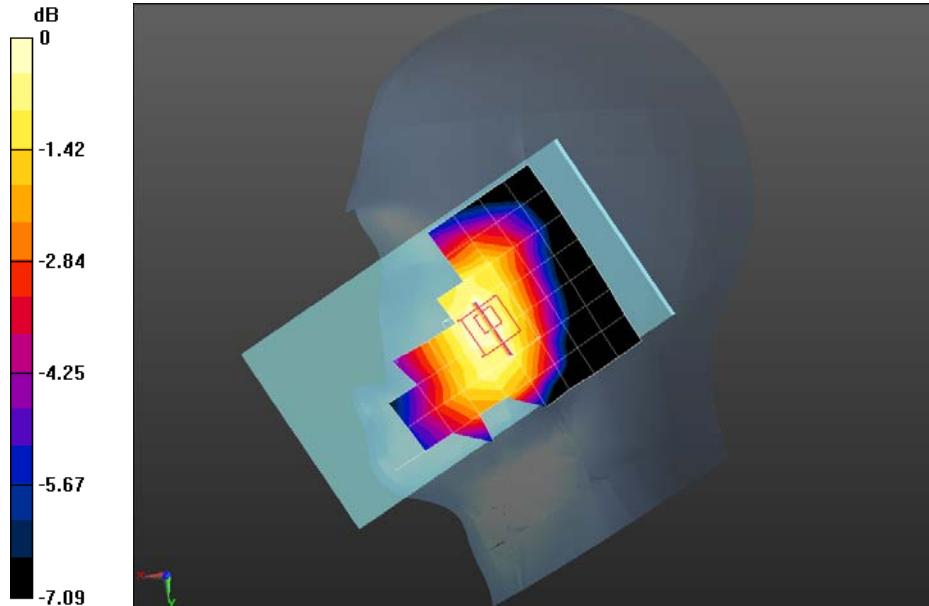
**Configuration/GSM850 Mid Touch-Right/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.217 W/kg

**Configuration/GSM850 Mid Touch-Right/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 3.569 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.254 W/kg

**SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.179 W/kg** Maximum value of SAR (measured) = 0.224 W/kg



0 dB = 0.224 W/kg = -6.50 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GSM850 Mid Tilt-Right

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.87$  S/m;  $\epsilon_r = 41.11$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/GSM850 Mid Tilt-Right/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

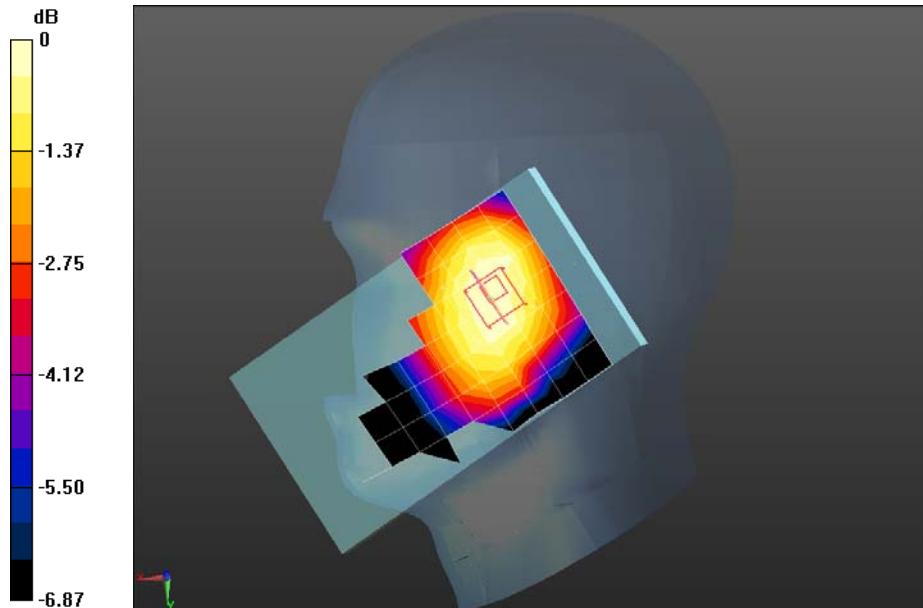
Maximum value of SAR (measured) = 0.118 W/kg

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

dy=8mm, dz=5mm; Reference Value = 6.760 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.135 W/kg

**SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.095 W/kg** Maximum value of SAR (measured) = 0.120 W/kg



0 dB = 0.120 W/kg = -9.21 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GSM850 Mid Touch-Right<SIM2>

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM; Communication System Band: GSM850; Duty Cycle: 1:8.3;

Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.87$  S/m;  $\epsilon_r = 41.11$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

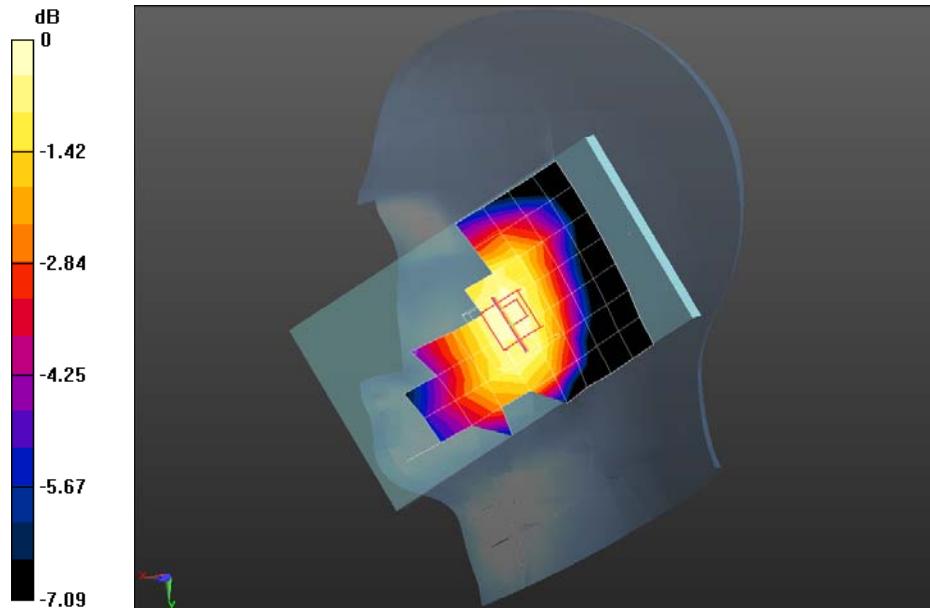
**Configuration/GSM850 Mid Touch-Right/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.202 W/kg

**Configuration/GSM850 Mid Touch-Right/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 3.569 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.236 W/kg

**SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.167 W/kg** Maximum value of SAR (measured) = 0.208 W/kg



0 dB = 0.208 W/kg = -6.82 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GSM850 Mid Body-Bottom

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM (0); Communication System Band: GSM850; Duty Cycle: 1:8.3; Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.97$  S/m;  $\epsilon_r = 52.88$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

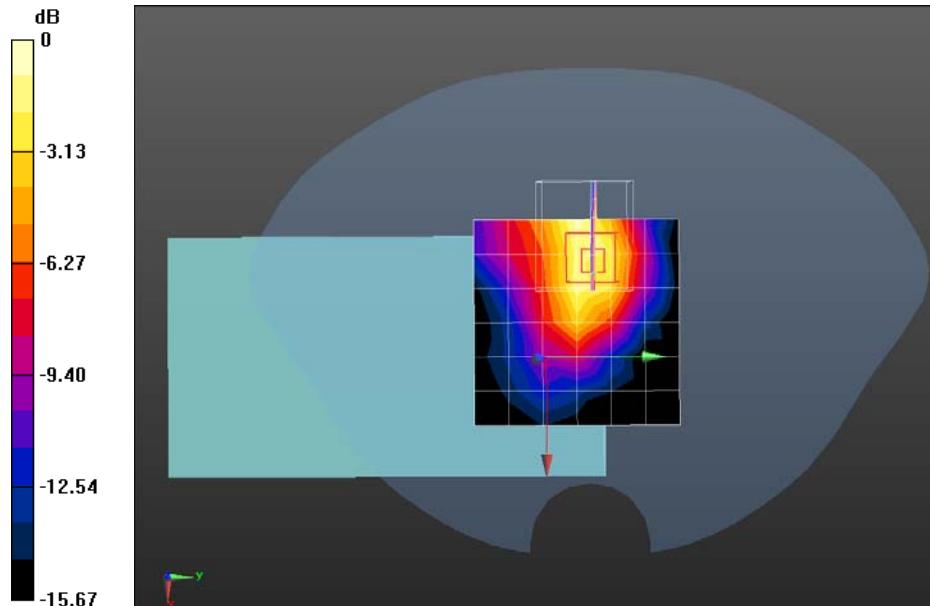
**Configuration/GSM850 Mid Body-Bottom/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.440 W/kg

**Configuration/GSM850 Mid Body-Bottom/Zoom Scan (7x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 17.53 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.24 W/kg

**SAR(1 g) = 0.474 W/kg; SAR(10 g) = 0.242 W/kg** Maximum value of SAR (measured) = 0.524 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS850 Low Body-Bottom(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, GPRS/EGPRS-3 Slot (0); Communication System Band: GSM 850; Duty Cycle: 1:2.8; Frequency: 824.2 MHz; Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.95$  S/m;  $\epsilon_r = 52.96$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

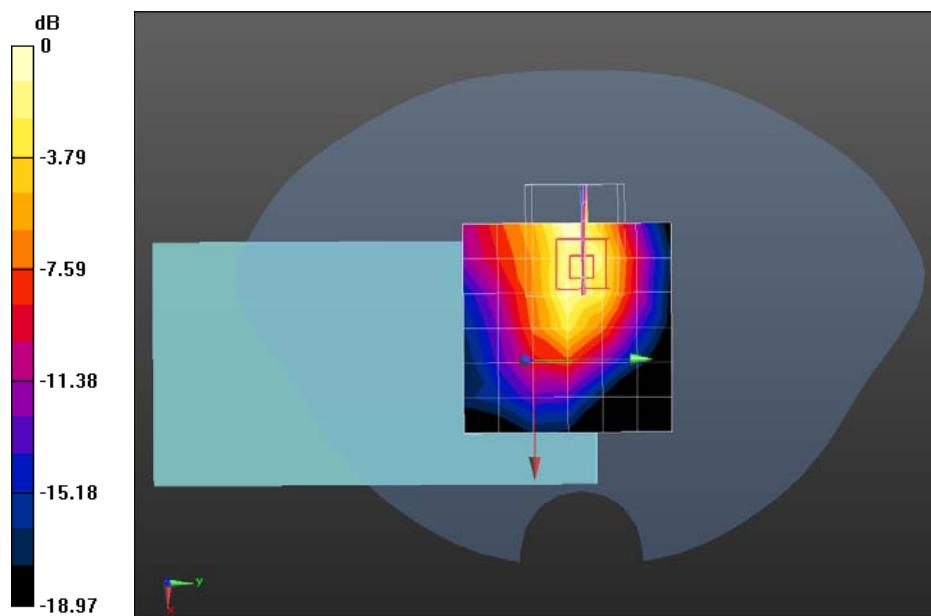
**Configuration/GPRS850 Low Body-Bottom/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.989 W/kg

**Configuration/GPRS850 Low Body-Bottom/Zoom Scan (7x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 26.11 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 2.77 W/kg

**SAR(1 g) = 0.937 W/kg; SAR(10 g) = 0.482 W/kg** Maximum value of SAR (measured) = 1.05 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Bottom(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, GPRS/EGPRS-3 Slot (0); Communication System Band: GSM 850; Duty Cycle: 1:2.8; Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.97$  S/m;  $\epsilon_r = 52.88$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

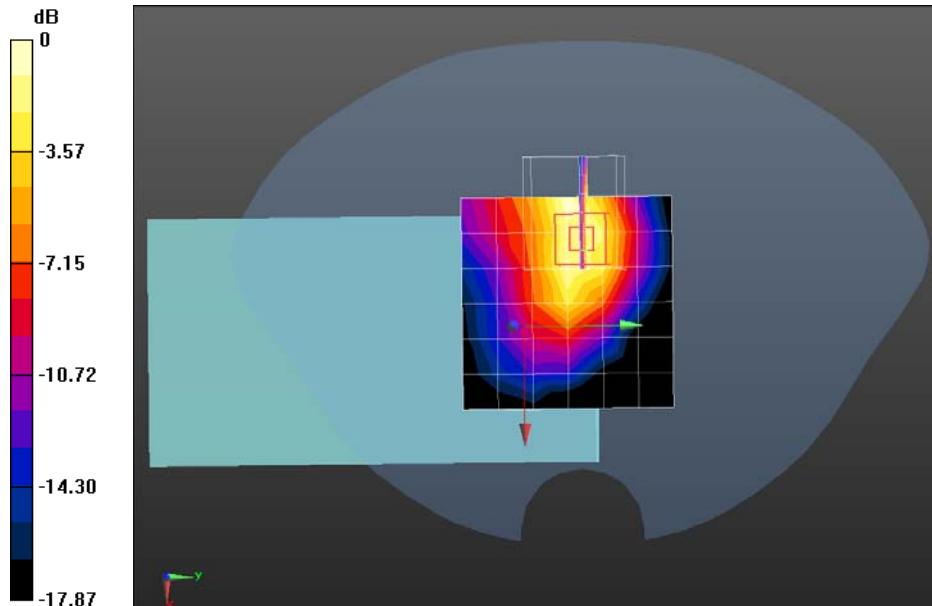
**Configuration/GPRS850 Mid Body-Bottom/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.10 W/kg

**Configuration/GPRS850 Mid Body-Bottom/Zoom Scan (7x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 27.76 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.89 W/kg

**SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.553 W/kg** Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GSM850 High Body-Bottom(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, GPRS/EGPRS-3 Slot (0); Communication System Band: GSM 850; Duty Cycle: 1:2.8; Frequency: 848.8 MHz; Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.98$  S/m;  $\epsilon_r = 52.71$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

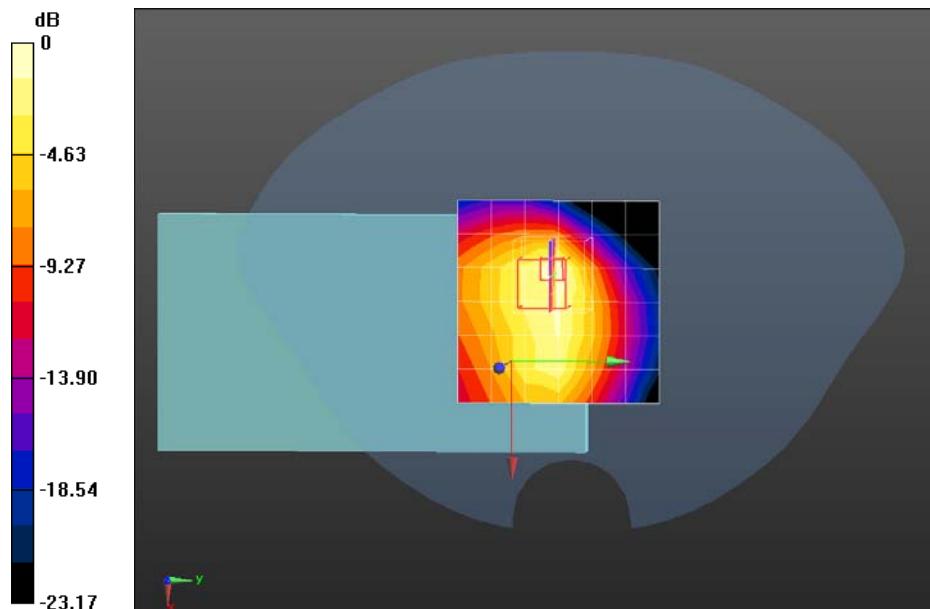
**Configuration/GSM850 Mid Body-Bottom/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.870 W/kg

**Configuration/GSM850 Mid Body-Bottom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 24.23 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.60 W/kg

**SAR(1 g) = 0.807 W/kg; SAR(10 g) = 0.384 W/kg** Maximum value of SAR (measured) = 0.844 W/kg



0 dB = 0.844 W/kg = -0.74 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Bottom(3up)\*

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, GPRS/EGPRS-3 Slot (0); Communication System Band: GSM 850; Duty Cycle: 1:2.8; Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.97$  S/m;  $\epsilon_r = 52.88$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

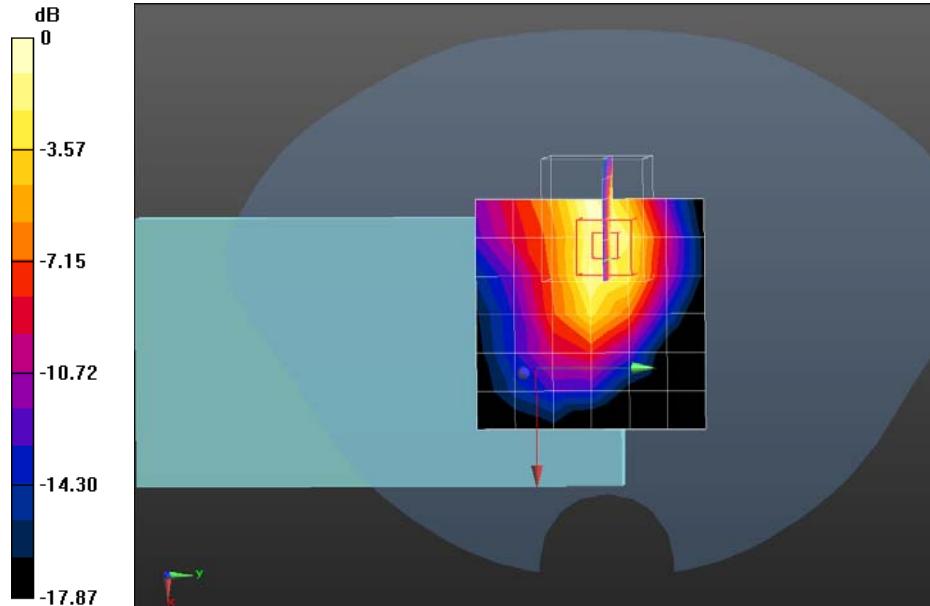
**Configuration/GPRS850 Mid Body-Bottom/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.04 W/kg

**Configuration/GPRS850 Mid Body-Bottom/Zoom Scan (7x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 27.76 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.74 W/kg

**SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.524 W/kg** Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Primary Landscape(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM (0); Communication System Band: GSM850; Duty Cycle: 1:2.8; Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.97$  S/m;  $\epsilon_r = 52.88$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

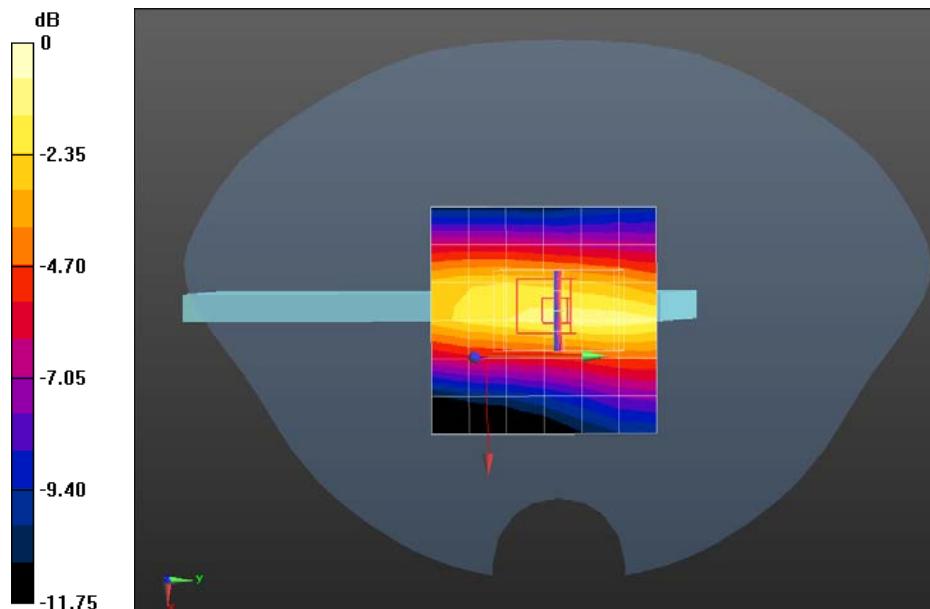
**Configuration/GPRS850 Mid Body-Bottom/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.169 W/kg

**Configuration/GPRS850 Mid Body-Bottom/Zoom Scan (5x7x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 13.92 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.345 W/kg

**SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.112 W/kg** Maximum value of SAR (measured) = 0.212 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Primary Portrait(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM (0); Communication System Band: GSM850; Duty Cycle: 1:2.8; Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.97$  S/m;  $\epsilon_r = 52.88$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/GPRS850 Mid Body-Primary Landscape/Area Scan (7x7x1):** Measurement grid:

dx=15mm, dy=15mm

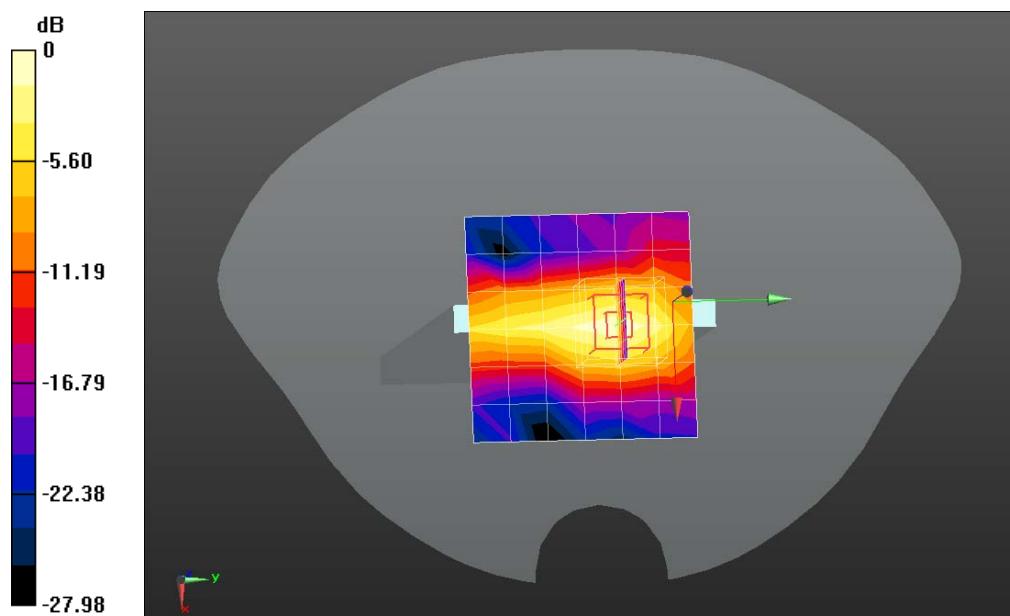
Maximum value of SAR (measured) = 0.0546 W/kg

**Configuration/GPRS850 Mid Body-Primary Landscape/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm, Reference Value = 6.251 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.101 W/kg

**SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.021 W/kg** Maximum value of SAR (measured) = 0.0541 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Secondary Portrait(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM (0); Communication System Band: GSM850; Duty Cycle: 1:2.8; Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.97$  S/m;  $\epsilon_r = 52.88$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/GPRS850 Mid Body-Secondary Portrait/Area Scan (7x7x1):** Measurement grid:

dx=15mm, dy=15mm

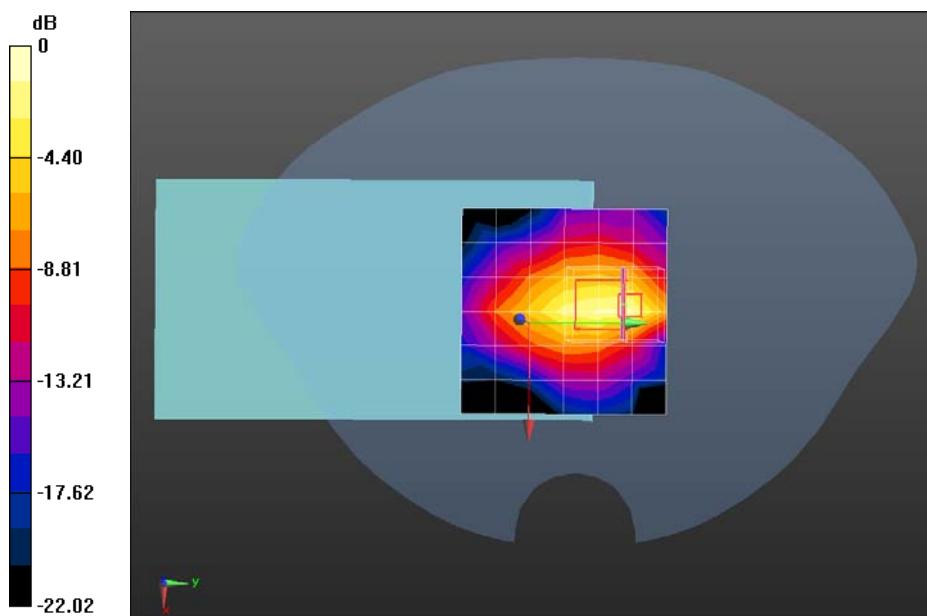
Maximum value of SAR (measured) = 0.349 W/kg

**Configuration/GPRS850 Mid Body-Secondary Portrait/Zoom Scan (5x6x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm; Reference Value = 17.36 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.179 W/kg** Maximum value of SAR (measured) = 0.448 W/kg



0 dB = 0.448 W/kg = -3.49 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS850 Mid Body-Secondary Landscape(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM (0); Communication System Band: GSM850; Duty Cycle: 1:2.8; Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.97$  S/m;  $\epsilon_r = 52.88$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/GPRS850 Mid Body-Secondary Landscape/Area Scan (7x7x1):** Measurement grid:

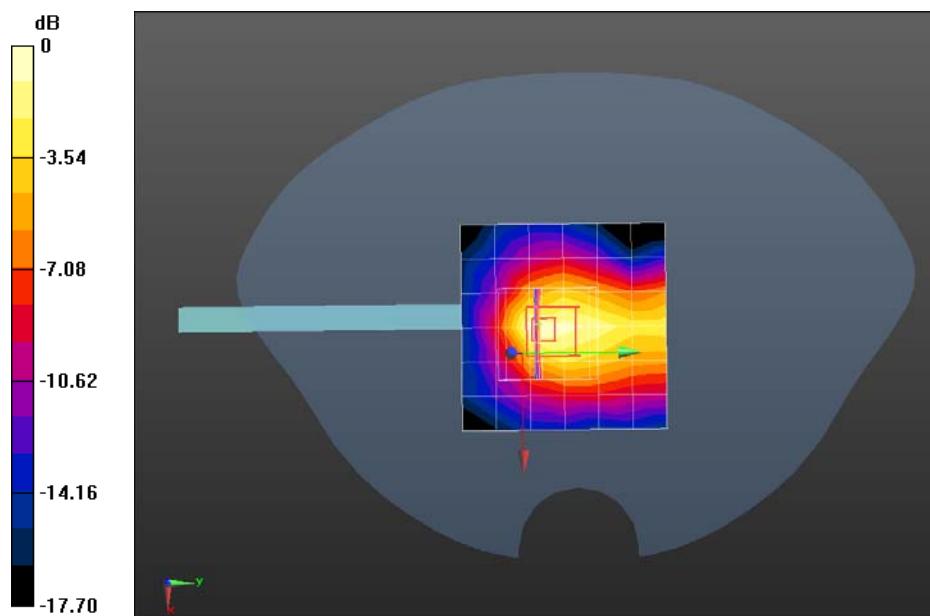
dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0909 W/kg

**Configuration/GPRS850 Mid Body-Secondary Landscape/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 8.241 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.156 W/kg

**SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.046 W/kg** Maximum value of SAR (measured) = 0.0933 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

PCS1900 Mid Touch-Left

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  S/m;  $\epsilon_r = 39.00$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.78, 7.78, 7.78); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/PCS1900 Mid Touch-Left/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

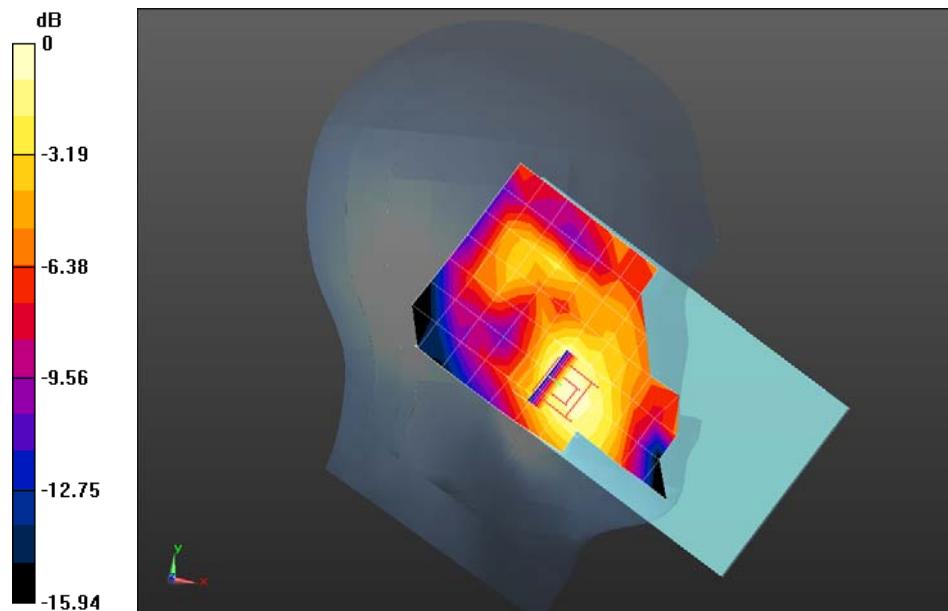
Maximum value of SAR (measured) = 0.181 W/kg

**Configuration/PCS1900 Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm,

dy=8mm, dz=5mm; Reference Value = 6.550 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.268 W/kg

**SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.103 W/kg** Maximum value of SAR (measured) = 0.184 W/kg



0 dB = 0.184 W/kg = -7.35 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

PCS1900 Mid Tilt-Left

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  S/m;  $\epsilon_r = 39.00$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Left Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.78, 7.78, 7.78); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

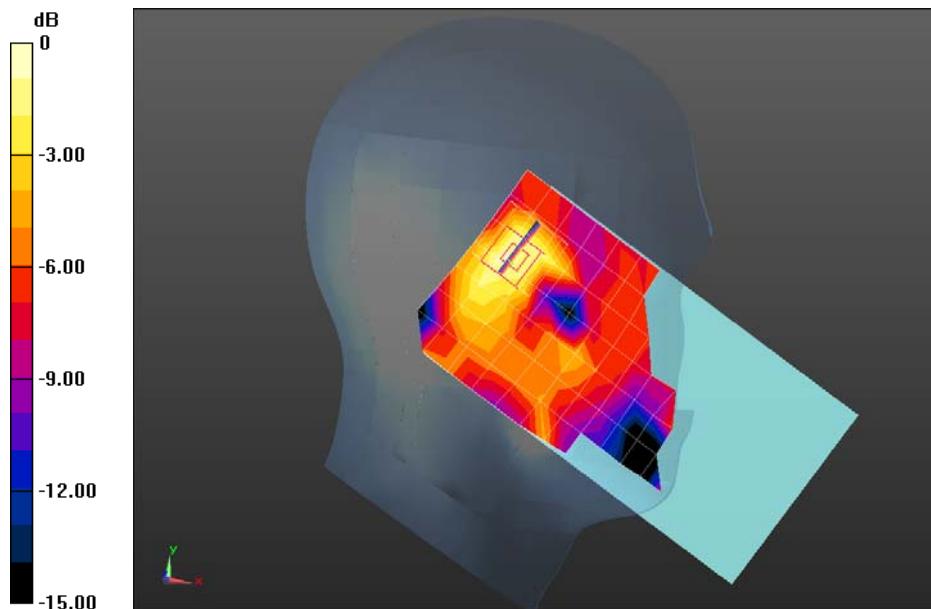
**Configuration/PCS1900 Mid Tilt-Left/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.127 W/kg

**Configuration/PCS1900 Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 10.84 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.230 W/kg

**SAR(1 g) = 0.139 W/kg; SAR(10 g) = 0.078 W/kg** Maximum value of SAR (measured) = 0.150 W/kg



0 dB = 0.150 W/kg = -8.24 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

PCS1900 Mid Touch-Right

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  S/m;  $\epsilon_r = 39.00$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.78, 7.78, 7.78); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

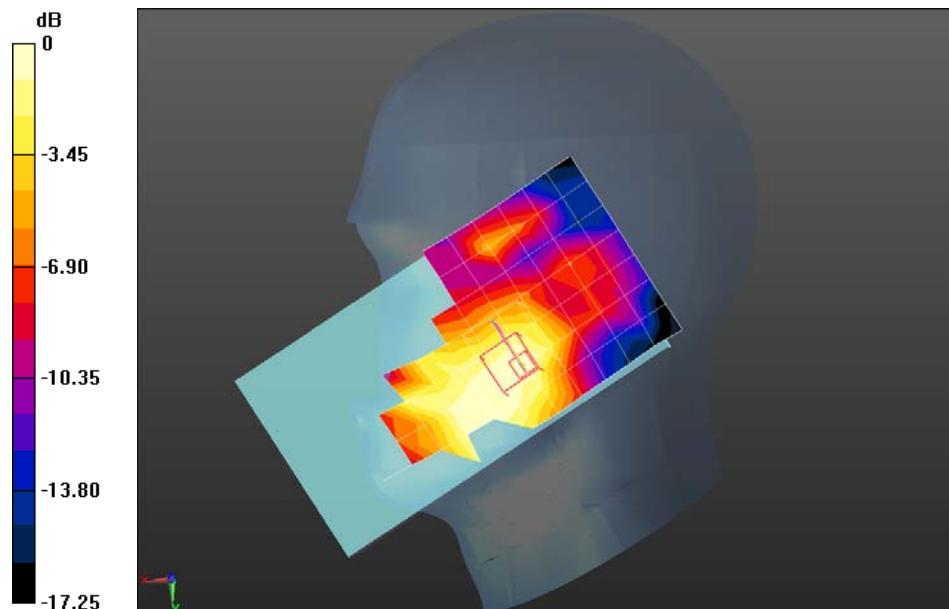
**Configuration/PCS1900 Mid Touch-Right/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.275 W/kg

**Configuration/PCS1900 Mid Touch-Right/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 4.875 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.344 W/kg

**SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.145 W/kg** Maximum value of SAR (measured) = 0.258 W/kg



0 dB = 0.258 W/kg = -5.88 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

PCS1900 Mid Tilt-Right

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  S/m;  $\epsilon_r = 39.00$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.78, 7.78, 7.78); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/PCS1900 Mid Tilt-Right/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

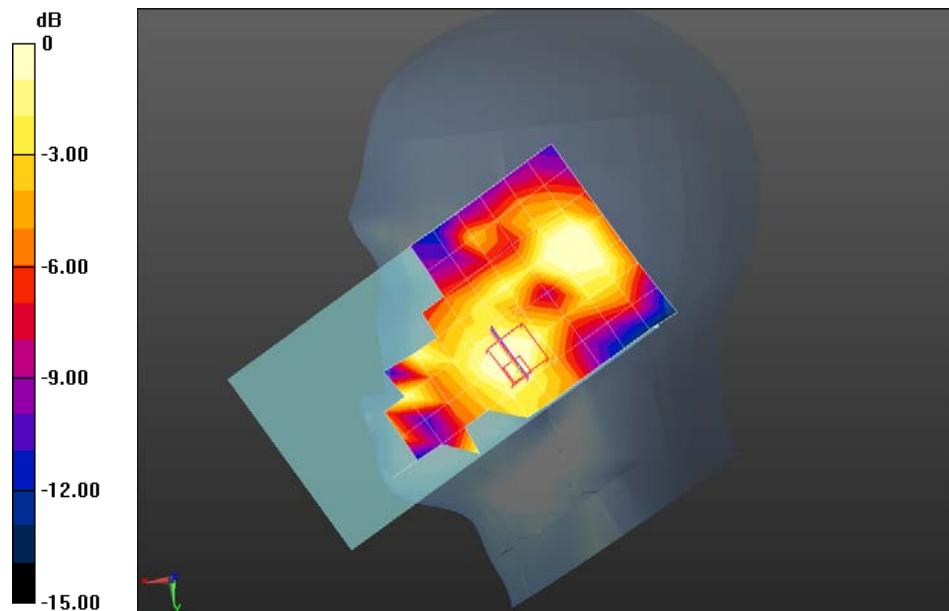
Maximum value of SAR (measured) = 0.138 W/kg

**Configuration/PCS1900 Mid Tilt-Right/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm,

dy=8mm, dz=5mm; Reference Value = 10.07 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.207 W/kg

**SAR(1 g) = 0.094 W/kg; SAR(10 g) = 0.056 W/kg** Maximum value of SAR (measured) = 0.109 W/kg



0 dB = 0.109 W/kg = -9.63 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

PCS1900 Mid Touch-Right<SIM2>

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM; Communication System Band: PCS1900; Duty Cycle: 1:8.3;

Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  S/m;  $\epsilon_r = 39.00$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.78, 7.78, 7.78); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

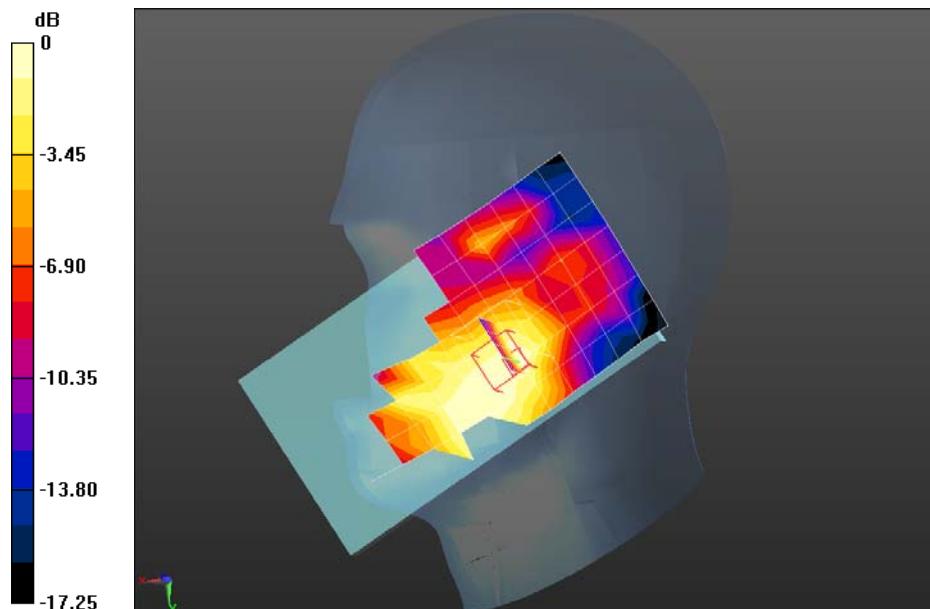
**Configuration/PCS1900 Mid Touch-Right/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.270 W/kg

**Configuration/PCS1900 Mid Touch-Right/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 4.875 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.337 W/kg

**SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.142 W/kg** Maximum value of SAR (measured) = 0.253 W/kg



0 dB = 0.253 W/kg = -5.97 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

PCS1900 Mid Body-Bottom

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS1900; Duty Cycle: 1:8.3; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 53.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.21, 7.21, 7.21); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

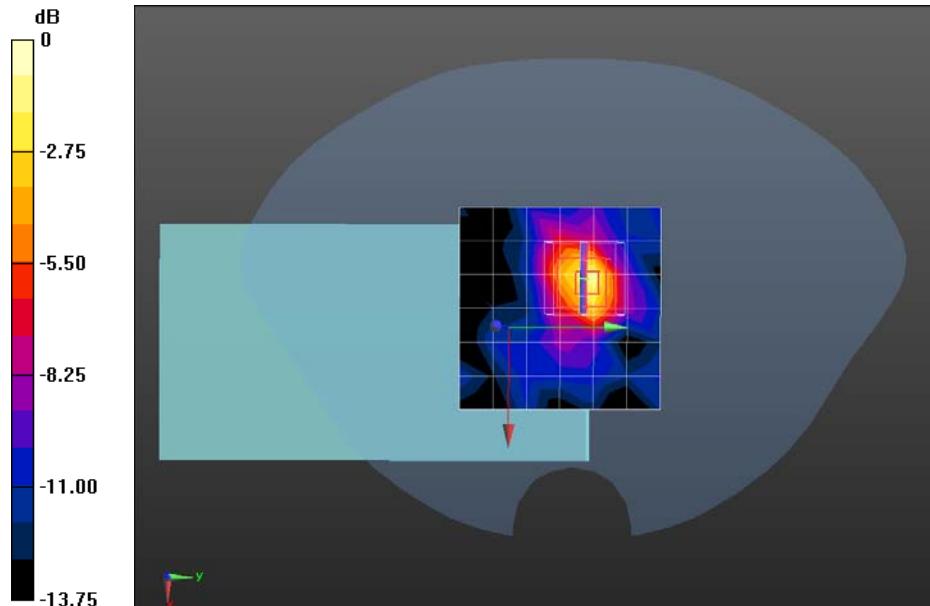
**Configuration/PCS1900 Mid Body-Bottom/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.611 W/kg

**Configuration/PCS1900 Mid Body-Bottom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 13.25 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.58 W/kg

**SAR(1 g) = 0.608 W/kg; SAR(10 g) = 0.271 W/kg** Maximum value of SAR (measured) = 0.741 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS1900 Low Body-Bottom(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, GPRS/EGPRS-3 Slot (0); Communication System Band: PCS 1900; Duty Cycle: 1:2.8; Frequency: 1850.2 MHz; Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.47$  S/m;  $\epsilon_r = 53.16$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.21, 7.21, 7.21); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

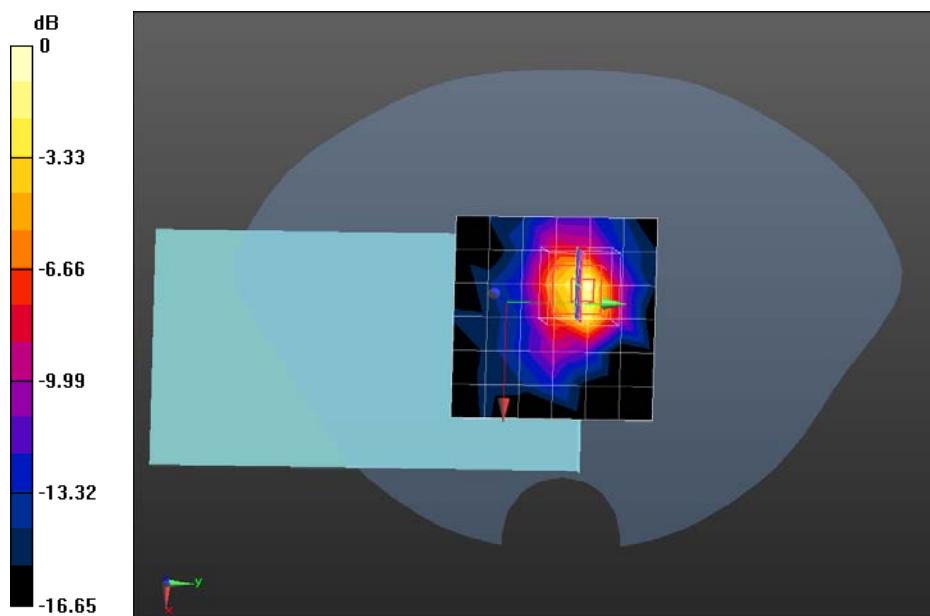
**Configuration/GPRS1900 Low Body-Bottom/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.24 W/kg

**Configuration/GPRS1900 Low Body-Bottom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 20.02 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.88 W/kg

**SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.505 W/kg** Maximum value of SAR (measured) = 1.43 W/kg



0 dB = 1.43 W/kg = 1.55 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Bottom(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, GPRS/EGPRS-3 Slot (0); Communication System Band: PCS 1900; Duty

Cycle: 1:2.8; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 53.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.21, 7.21, 7.21); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/GPRS1900 Mid Body-Bottom/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

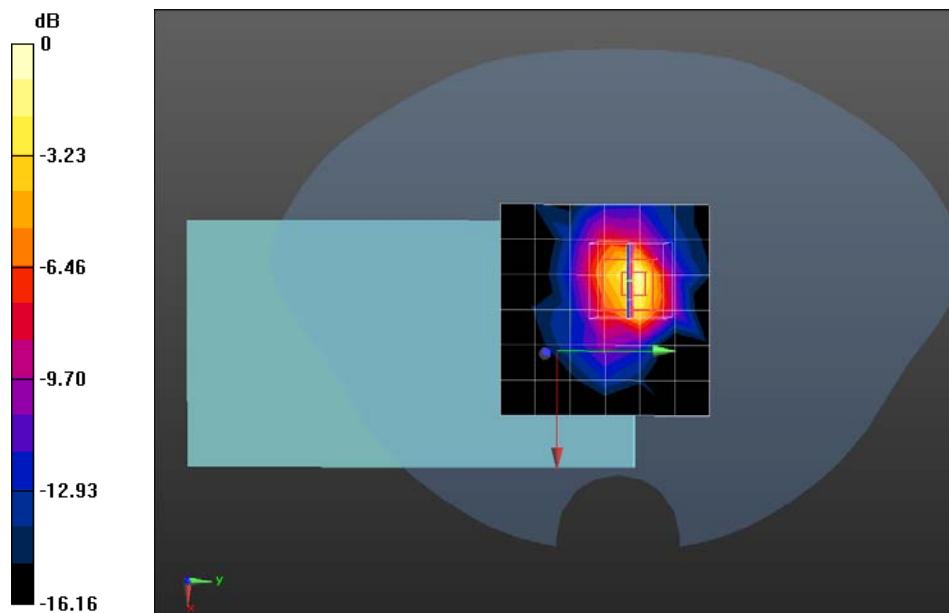
Maximum value of SAR (measured) = 1.24 W/kg

**Configuration/GPRS1900 Mid Body-Bottom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 19.51 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 2.94 W/kg

**SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.514 W/kg**

Maximum value of SAR (measured) = 1.46 W/kg



0 dB = 1.46 W/kg = 1.64 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS1900 High Body-Bottom(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, GPRS/EGPRS-3 Slot (0); Communication System Band: PCS 1900; Duty Cycle: 1:2.8; Frequency: 1909.8 MHz; Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.55$  S/m;  $\epsilon_r = 52.90$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.21, 7.21, 7.21); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

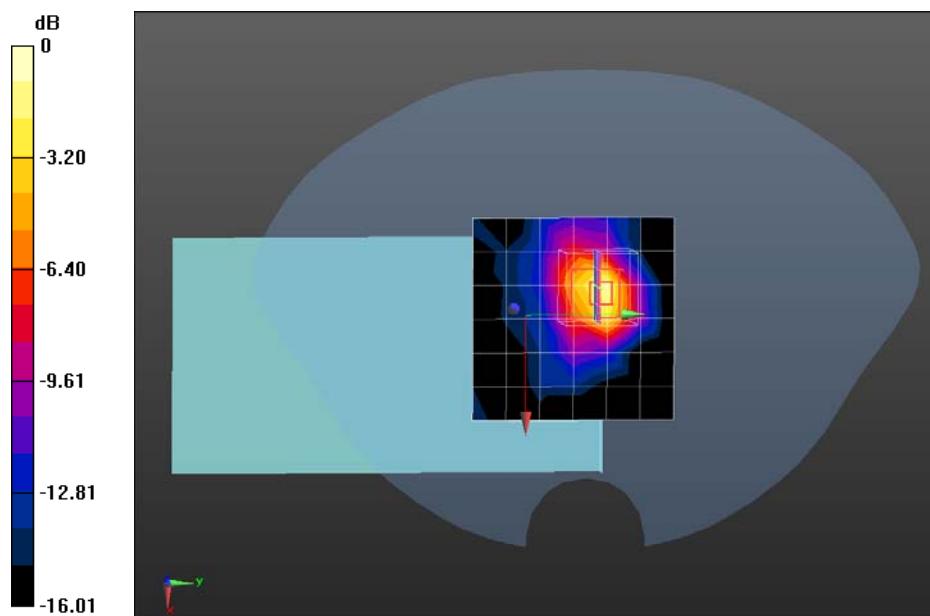
**Configuration/GPRS1900 High Body-Bottom/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.16 W/kg

**Configuration/GPRS1900 High Body-Bottom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 18.70 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.88 W/kg

**SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.489 W/kg** Maximum value of SAR (measured) = 1.41 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Bottom(3up)\*

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, GPRS/EGPRS-3 Slot (0); Communication System Band: PCS 1900; Duty

Cycle: 1:2.8; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 53.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.21, 7.21, 7.21); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

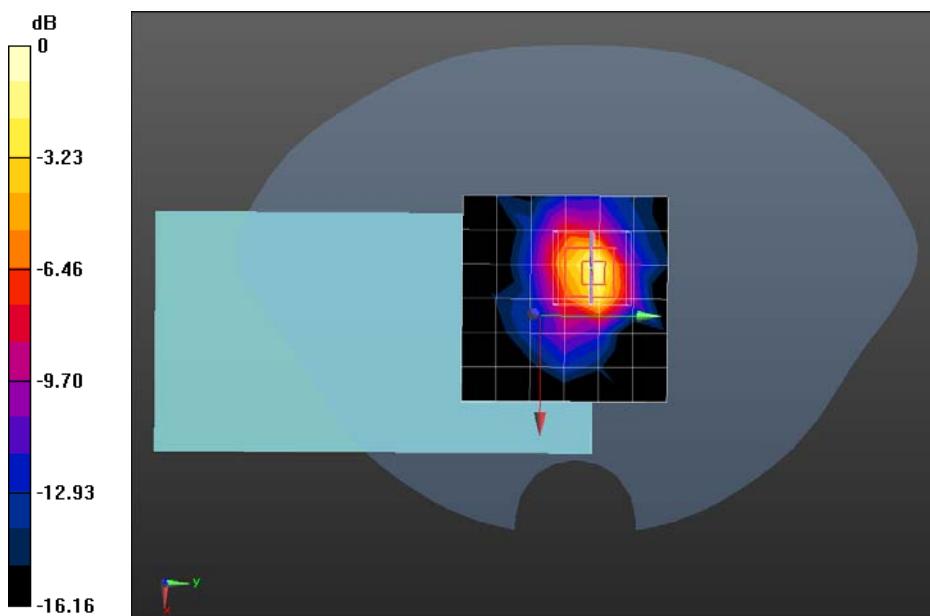
**Configuration/GPRS1900 Mid Body-Bottom/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.19 W/kg

**Configuration/GPRS1900 Mid Body-Bottom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 19.51 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.83 W/kg

**SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.494 W/kg** Maximum value of SAR (measured) = 1.40 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Primary Landscape(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, GPRS/EGPRS-4 Slot (0); Communication System Band: PCS 1900; Duty

Cycle: 1:2.8; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 53.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.21, 7.21, 7.21); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/GPRS1900 Mid Body-Right side/Area Scan (5x12x1):** Measurement grid: dx=15mm, dy=15mm

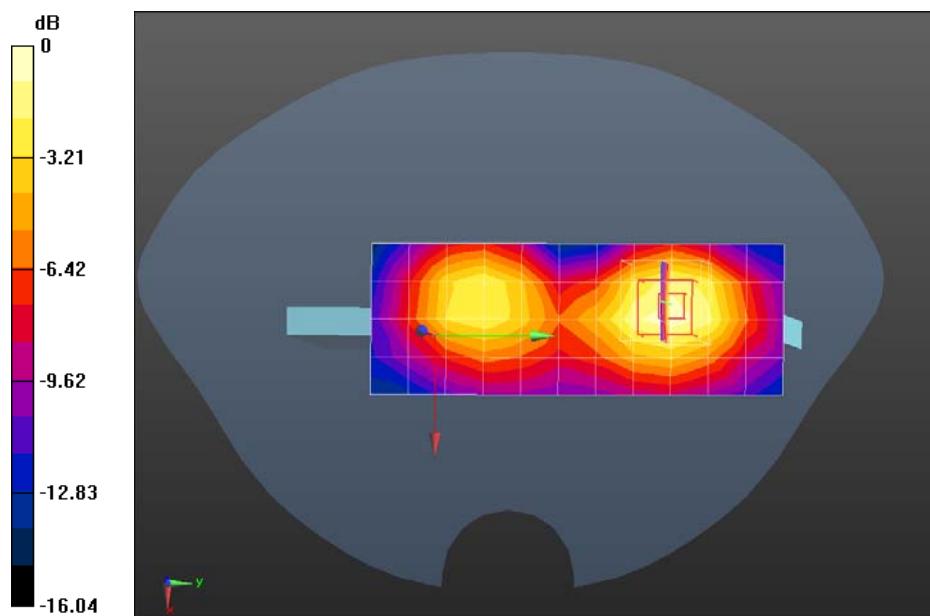
Maximum value of SAR (measured) = 0.260 W/kg

**Configuration/GPRS1900 Mid Body-Right side/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm; Reference Value = 9.786 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.403 W/kg

**SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.151 W/kg** Maximum value of SAR (measured) = 0.274 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Secondary Portrait(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS1900; Duty Cycle: 1:2.8; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 53.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.21, 7.21, 7.21); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/GPRS1900 Mid Body-Secondary Portrait/Area Scan (5x10x1):** Measurement grid:

dx=15mm, dy=15mm

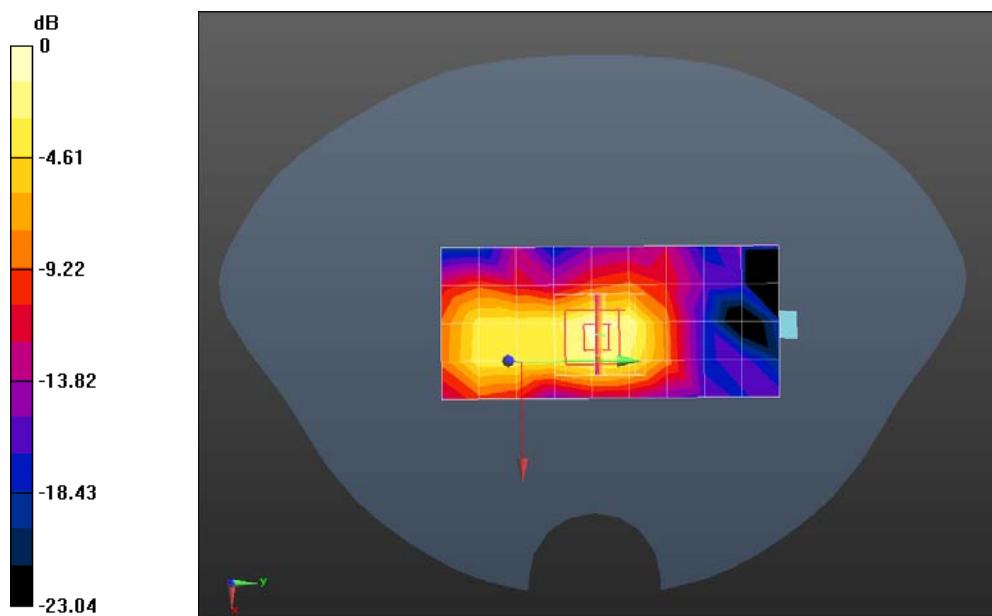
Maximum value of SAR (measured) = 0.121 W/kg

**Configuration/GPRS1900 Mid Body-Secondary Portrait/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm; Reference Value = 8.877 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.233 W/kg

**SAR(1 g) = 0.134 W/kg; SAR(10 g) = 0.073 W/kg** Maximum value of SAR (measured) = 0.147 W/kg



0 dB = 0.147 W/kg = -8.33 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

GPRS1900 Mid Body-Secondary Landscape(3up)

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS1900; Duty Cycle: 1:2.8; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 53.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.21, 7.21, 7.21); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/GPRS1900 Mid Body-Secondary Landscape/Area Scan (5x14x1): Measurement grid:**

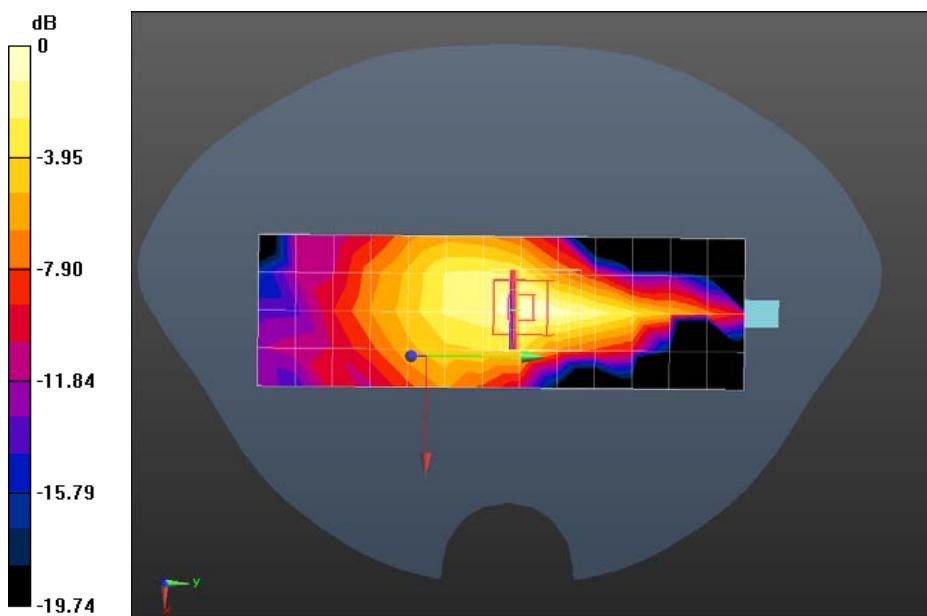
dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0134 W/kg

**Configuration/GPRS1900 Mid Body-Secondary Landscape/Zoom Scan (5x5x7)/Cube 0: Measurement grid:** dx=8mm, dy=8mm, dz=5mm; Reference Value = 2.990 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.0200 W/kg

**SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.00694 W/kg** Maximum value of SAR (measured) = 0.0145 W/kg



0 dB = 0.0145 W/kg = -18.39 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Touch-Left

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, UMTS (0); Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1.0; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  S/m;  $\epsilon_r = 39.00$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Left Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.78, 7.78, 7.78); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/WCDMA Band II Mid Touch-Left/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm

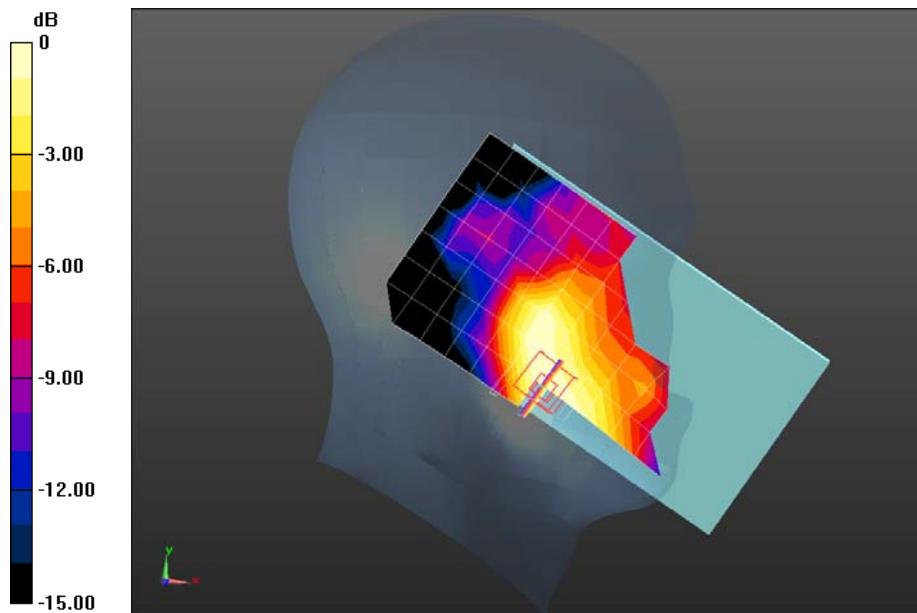
Maximum value of SAR (measured) = 0.126 W/kg

**Configuration/WCDMA Band II Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm; Reference Value = 3.683 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.180 W/kg

**SAR(1 g) = 0.119 W/kg; SAR(10 g) = 0.076 W/kg** Maximum value of SAR (measured) = 0.129 W/kg



0 dB = 0.129 W/kg = -8.89 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Tilt-Left

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, UMTS (0); Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1.0; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  S/m;  $\epsilon_r = 39.00$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Left Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.78, 7.78, 7.78); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

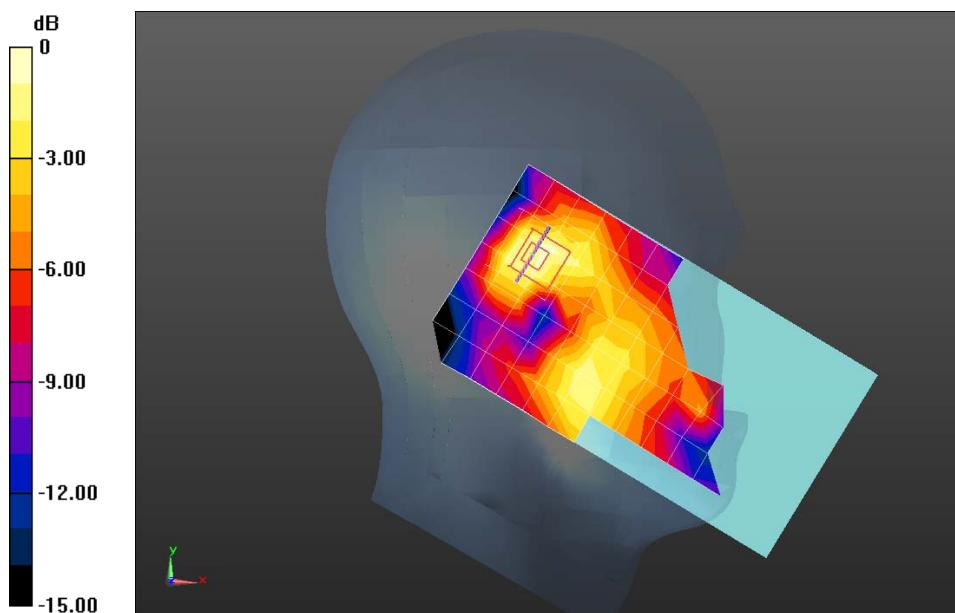
**Configuration/WCDMA Band II Mid Tilt-Left/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0574 W/kg

**Configuration/WCDMA Band II Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 5.917 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.0910 W/kg

**SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.034 W/kg** Maximum value of SAR (measured) = 0.0639 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Touch-Right

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, UMTS (0); Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1.0; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  S/m;  $\epsilon_r = 39.00$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.78, 7.78, 7.78); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

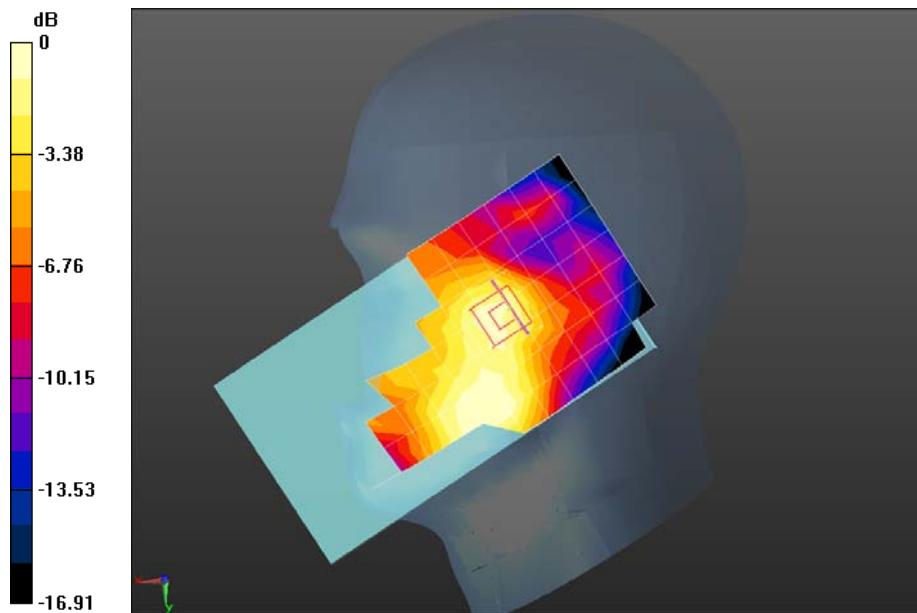
**Configuration/WCDMA Band II Mid Touch-Right/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0988 W/kg

**Configuration/WCDMA Band II Mid Touch-Right/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 3.077 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.131 W/kg

**SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.056 W/kg** Maximum value of SAR (measured) = 0.0957 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Tilt-Right

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, UMTS (0); Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1.0; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  S/m;  $\epsilon_r = 39.00$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Right Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.78, 7.78, 7.78); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

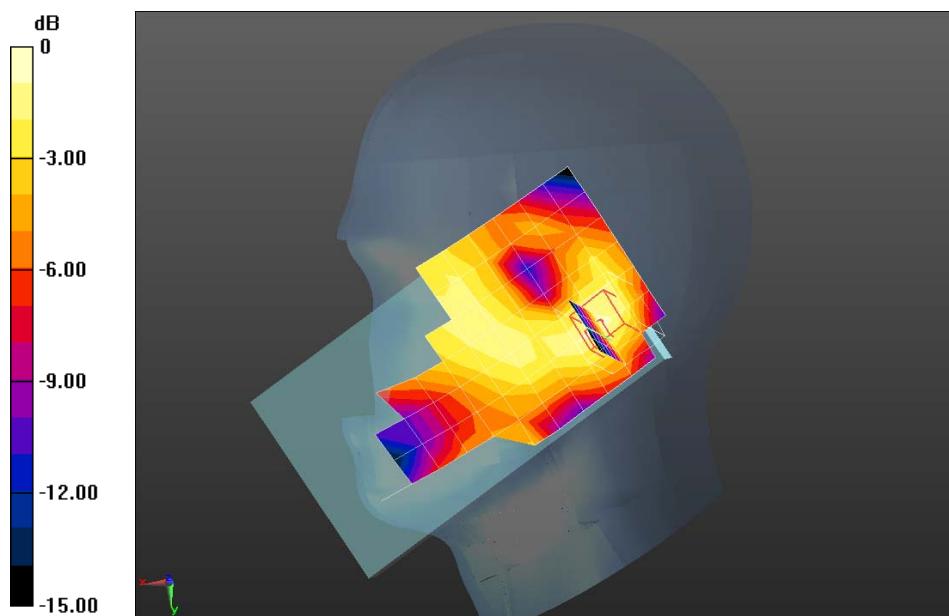
**Configuration/WCDMA Band II Mid Tilt-Right/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0443 W/kg

**Configuration/WCDMA Band II Mid Tilt-Right/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 4.678 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.0650 W/kg

**SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.017 W/kg** Maximum value of SAR (measured) = 0.0457 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Body-Bottom

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, UMTS (0); Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1.0; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 53.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.21, 7.21, 7.21); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

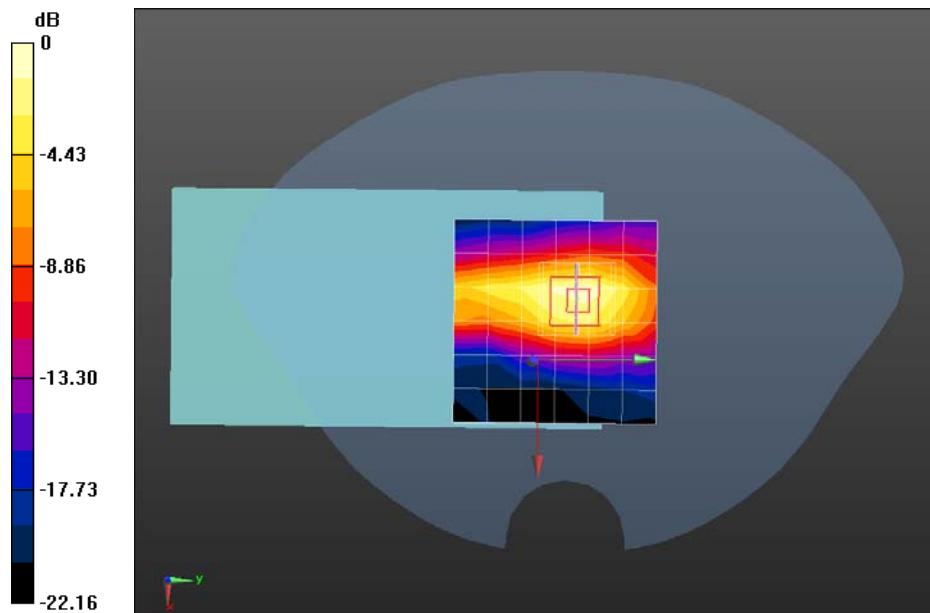
**Configuration/WCDMA Band II Mid Body-Bottom/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.337 W/kg

**Configuration/WCDMA Band II Mid Body-Bottom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 14.28 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.689 W/kg

**SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.141 W/kg** Maximum value of SAR (measured) = 0.366 W/kg



0 dB = 0.366 W/kg = -4.37 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Body-Primary Landscape

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, UMTS (0); Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1.0; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 53.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.21, 7.21, 7.21); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/WCDMA Band II Mid Body-Primary Landscape/Area Scan (7x7x1):** Measurement grid:

dx=15mm, dy=15mm

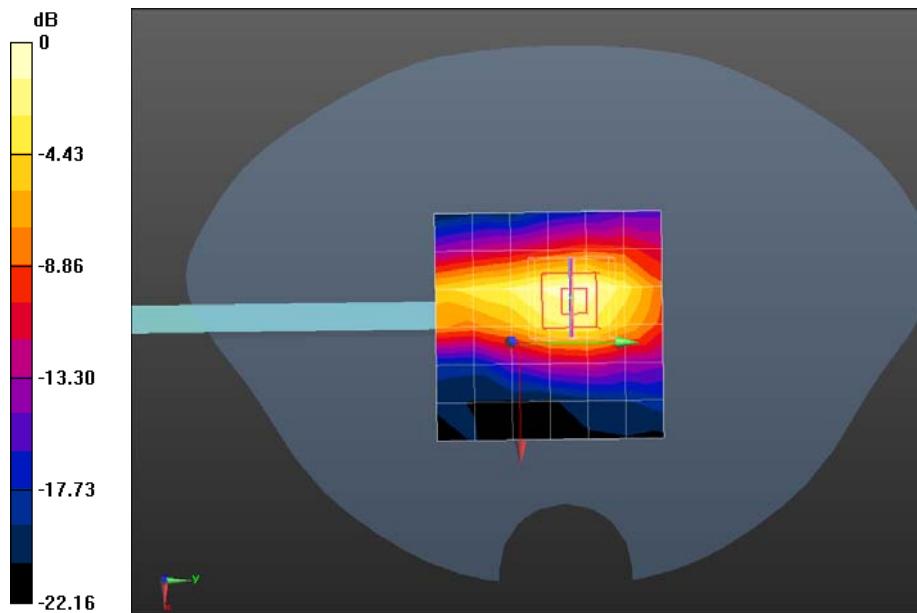
Maximum value of SAR (measured) = 0.361 W/kg

**Configuration/WCDMA Band II Mid Body-Primary Landscape/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 14.28 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.738 W/kg

**SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.151 W/kg** Maximum value of SAR (measured) = 0.392 W/kg



0 dB = 0.392 W/kg = -4.07 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Body-Secondary Portrait

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, UMTS (0); Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1.0; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 53.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.21, 7.21, 7.21); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/WCDMA Band II Mid Body-Secondary Portrait/Area Scan (7x7x1):** Measurement grid:

dx=15mm, dy=15mm

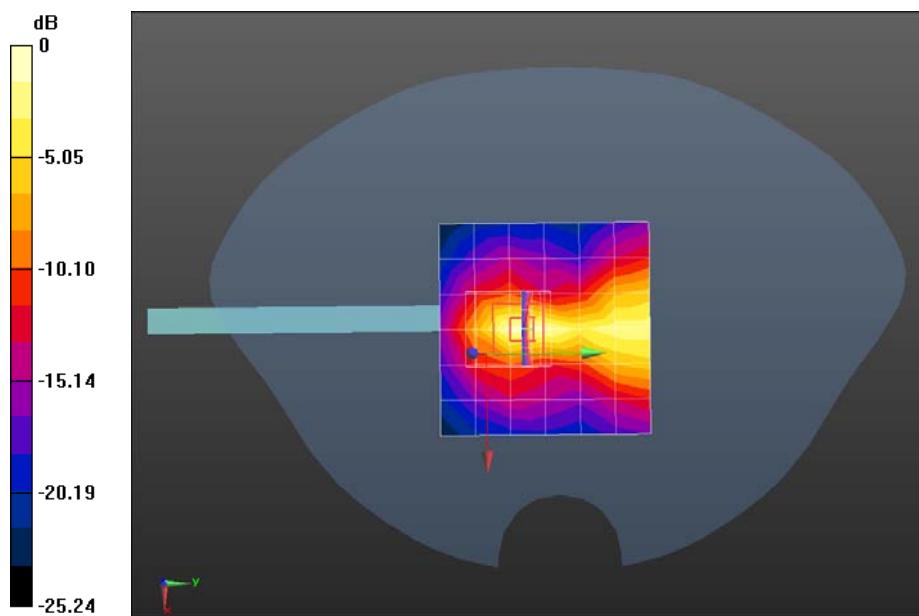
Maximum value of SAR (measured) = 0.578 W/kg

**Configuration/WCDMA Band II Mid Body-Secondary Portrait/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 12.29 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.188 W/kg** Maximum value of SAR (measured) = 0.671 W/kg



0 dB = 0.671 W/kg = -1.73 dBW/kg

Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

WCDMA Band II Mid Body-Secondary Landscape

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, UMTS (0); Communication System Band: Band II UTRA/FDD; Duty Cycle: 1:1.0; Frequency: 1880 MHz; Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 53.01$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(7.21, 7.21, 7.21); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/WCDMA Band II Mid Body-Secondary Portrait/Area Scan (7x7x1):** Measurement grid:

dx=15mm, dy=15mm

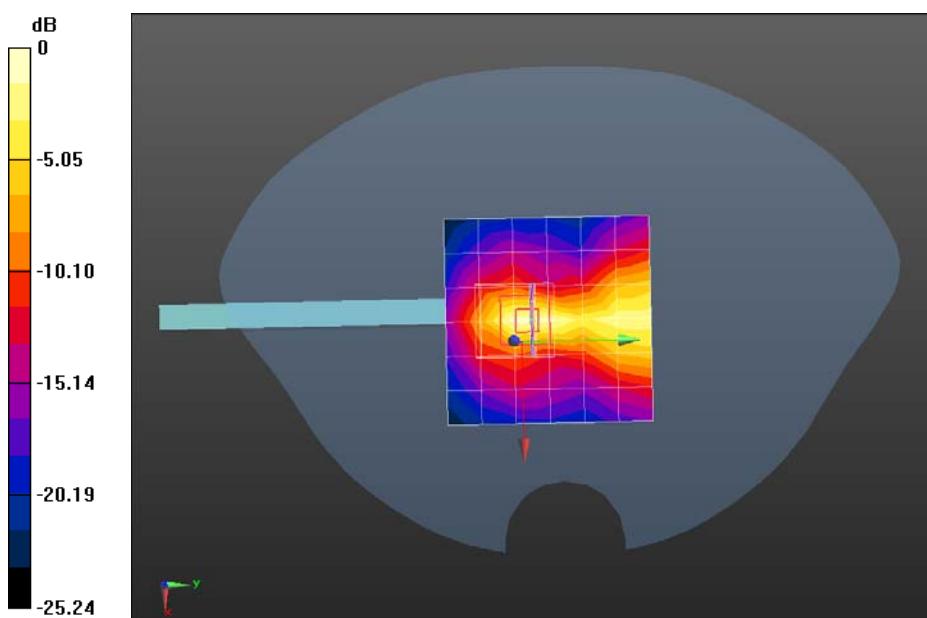
Maximum value of SAR (measured) = 0.551 W/kg

**Configuration/WCDMA Band II Mid Body-Secondary Portrait/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 12.29 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.28 W/kg

**SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.179 W/kg** Maximum value of SAR (measured) = 0.640 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Touch-Left

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1.0; Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 42.00$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Left Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/WCDMA Band V Mid Touch-Left/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm

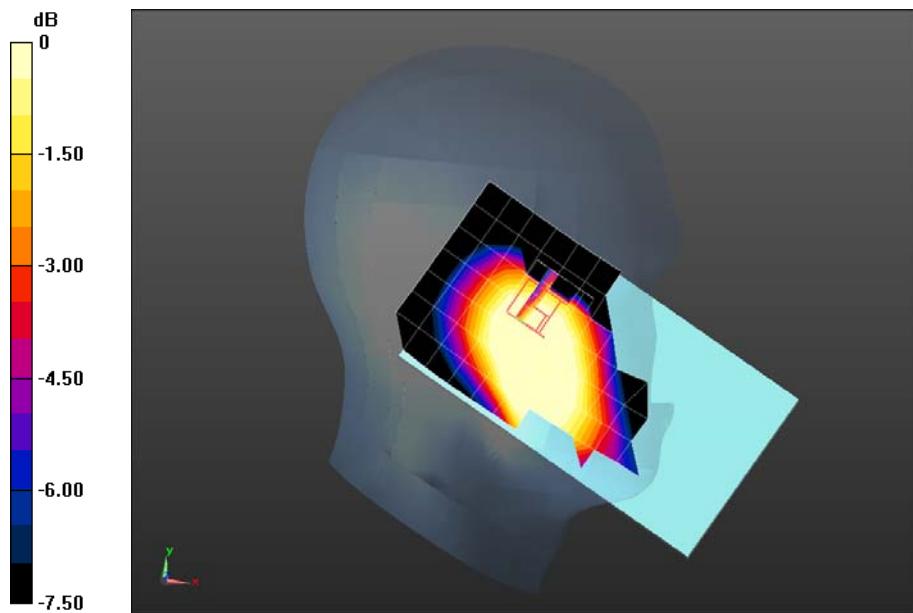
Maximum value of SAR (measured) = 0.0941 W/kg

**Configuration/WCDMA Band V Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm; Reference Value = 4.594 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0680 W/kg

**SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.039 W/kg** Maximum value of SAR (measured) = 0.0601 W/kg



Date/Time: 09-09-2015

Test Laboratory: QuieTek Lab

WCDMA Band V Mid Tilt-Left

**DUT: Tablet PC; Type: TE69SA3**

Communication System: UID 0, UMTS; Communication System Band: Band V UTRA/FDD; Duty Cycle: 1:1.0; Frequency: 836.4 MHz; Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 42.00$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Left Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(9.16, 9.16, 9.16); Calibrated: 27/03/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 20/01/2015
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Configuration/WCDMA Band V Mid Tilt-Left/Area Scan (8x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0564 W/kg

**Configuration/WCDMA Band V Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 6.665 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.0670 W/kg

**SAR(1 g) = 0.055 W/kg; SAR(10 g) = 0.043 W/kg** Maximum value of SAR (measured) = 0.0574 W/kg

