No.: RZA2008-1135FCC

OET 65

TEST REPORT

Test name	Electromagnetic Field (Specific Absorption Rate)
Product	WCDMA/GPRS/GSM/EDGE Mobile Phone With Bluetooth
Model	U3317/MTV3.4/U3310
FCC ID	U3317：QISU3307 MTV3.4/U3310：QISU3310
Client	Huawei Technologies Co., Ltd.

TA Technology (Shanghai) Co., Ltd.

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GENERAL SUMMARY

Product	WCDMA/GPRS/GSM/EDGE Mobile Phone With Bluetooth	**Model**	U3317/MTV3.4/U3310
Client	Huawei Technologies Co., Ltd.	**Type of test**	Entrusted
Manufacturer	Huawei Technologies Co., Ltd.	**Arrival Date of sample**	August 21st ， 2008
Place of sampling	(Blank)	**Carrier of the samples**	Hua Wu
Quantity of the samples	One	**Date of product**	(Blank)
Base of the samples	(Blank)	**Items of test**	SAR
Series number	VS2AB10870900152(U3317)		
Standard(s)	**EN 50360–2001:** Product standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones. **BS EN 62209-1:2006:** Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz) **ANSI C95.1–2005:** IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. **IEEE 1528–2003:** Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head Due to Wireless Communications Devices: Experimental Techniques. **OET Bulletin 65 supplement C, published June 2001 including DA 02-1438, published June 2002:** Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits. Transition Period for the Phantom Requirements of Supplement C to OET Bulletin 65. **IEC 62209-2 :** Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures –Part 2: Procedure to determine the Specific Absorption Rate (SAR)in the head and body for 30MHz to 6GHz Handheld and Body-Mounted Devices used in close proximity to the body.		
Conclusion	Localized Specific Absorption Rate (SAR) of this portable wireless equipment has been measured in all cases requested by the relevant standards cited in Clause 7.2 of this test report. Maximum localized SAR is below exposure limits specified in the relevant standards cited in Clause 7.1 of this test report. General Judgment: **Pass** (Stamp) **Date of issue: september 4th, 2008**		
Comment	The test result only responds to the measured sample.		

Approved by 杨伟中 Weizhong Yang **Revised by** 凌敏宝 Minbao Ling **Performed by** 石峰 feng Shi

TABLE OF CONTENT

1. COMPETENCE AND WARRANTIES

TA Technology (Shanghai) Co., Ltd. is a test laboratory competent to carry out the tests described in this test report.

TA Technology (Shanghai) Co., Ltd. guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and teCHnical facilities available at TA Technology (Shanghai) Co., Ltd. at the time of execution of the test.

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3. DESCRIPTION OF EUT

3.1. Addressing Information Related to EUT

Table 1: Applicant (The Client)

Name or Company	Huawei Technologies Co., Ltd.
Address/Post	Bantian, Longgang District
City	Shenzhen
Postal Code	518129
Country	P.R. China
Telephone	0755-28780808
Fax	0755-28780808

Table 2: Manufacturer

Name or Company	Huawei Technologies Co., Ltd.
Address/Post	Bantian, Longgang District
City	Shenzhen
Postal Code	518129
Country	P.R. China
Telephone	0755-28780808
Fax	0755-28780808

3.2. Constituents of EUT

Table 3: **Constituents of Samples**

Description	Model	Serial Number	Manufacturer
Handset	U3317	VS2AB10870900152	Huawei Technologies Co.,Ltd.
	MTV3.4/U3310	/	
Lithium Battery	HBU570	FMT7A0517468Y	FMT Electronics Co.,Ltd.
AC/DC Adapter	TPCA-050065VY	TP1752903525	TECH-POWER INTERNATIONAL CO.,LTD

Note:
The EUT appearances see ANNEX I.

3.3. General Description

WCDMA/GPRS/GSM/EDGE Mobile Phone With Bluetooth–U3317/MTV3.4/U3310 is subscriber equipment in the WCDMA/GSM system. The WCDMA frequency band is Band I and Band V (only for U3317）. The GSM/GPRS frequency band includes E-GSM900 and GSM1800 and GSM1900. U3317/MTV3.4/U3310 implements such functions as RF signal receiving/sending, WCDMA and GSM/GPRS protocol processing, voice and data service etc. Externally it provides Micro SD card interface, earphone port (to provide voice service) and USIM card interface.

U3317/MTV3.4/U3310 use the same ID shown as follow, and both support GSM three bands, GSM900/1800/1900. U3317 supports WCDMA Band I and Band V, and MTV3.4/U3310 only supports WCDMA Band I. They use the same WCDMA band components for W2100, such as PA，Duplexer, SAW filter and other match Inductors, capacitors. MTV3.4/U3310 only remove the associated components for W850. Other RF parts and baseband are the same. The PCB and the antenna are the same too.

MTV3.4 and U3310 are the two name of one product.

Unless otherwise noted, all the information and test data is applied to the U3317.

The sample under test was selected by the Client.

Components list please refer to documents of the manufacturer.

3.4. Test item

Table 4: Test item of EUT

Device type :	portable device	
Exposure category:	uncontrolled environment / general population	
Device operating configurations :		
Operating mode(s):	GSM900; GSM1800; GSM1900; （tested） WCDMA Band I; WCDMA Band V; （tested）	
Modulation:	GMSK, 8PSK, QPSK	
GPRS mobile station class :	A	
GPRS multislot class :	10	
EGPRS multislot class :	10	
Maximum no.of timeslots in uplink:	2	
Standard output power	(33dBm,2W)GSM900; (30dBm,1W)GSM1800; (30dBm,1W)GSM1900; （tested） (24dBm,0.25W)WCDMA Band I (24dBm,0.25W)WCDMA Band V（tested）	
Operating frequency range(s)	transmitter frequency range	receiver frequency range
GSM900:	880.2 MHz ~ 914.8 MHz	925.2 MHz ~ 959.8 MHz
GSM1800:	1710.2 MHz ~ 1784.8 MHz	1805.2 MHz ~ 1879.8 MHz
GSM1900: （tested）	1850.2 MHz ~ 19.9.8 MHz	1930.2 MHz ~ 1989.8 MHz
WCDMA Band I:	1922.4 MHz ~ 1977.6 MHz	2112.4 MHz ~ 2167.6 MHz
WCDMA Band V（tested）	826.4 MHz ~ 846.6 MHz	871.4 MHz ~ 891.6 MHz
Power class	GSM 900: 4, tested with power level 5	
	GSM 1800: 1, tested with power level 0	
	GSM 1900: 1, tested with power level 0	
	WCDMA Band I: 3, tested with maximum output power	
	WCDMA Band V: 3, tested with maximum output power	
Test channel (Low –Middle –High)	975 -38 – 124 (GSM900) 512 - 698 – 885 (GSM1800) 512 - 661 – 810 (GSM1900) （tested） 9612 -9750 -9888 (WCDMA Band I) 4132 -4182 -4233 (WCDMA Band V) （tested）	
Hardware version:	HD1U330M VER.B	
Software version:	U3317V100R001C55B123	
Antenna type:	integrated antenna	

4. OPERATIONAL CONDITIONS DURING TEST

4.1. General description of test procedures

The EUT is tested using a E5515C communications tester as controller unit to set test channels and maximum output power to the EUT, as well as for measuring the conducted peak power. Test positions as described in ANNEX I are in accordance with the specified test standard. Conducted output power was measured using an integrated RF connector and attached RF cable.

To make the mobile emits maximum power; the output power of E5515C would be adjusted to minimum power with the sensitivity of the mobile station to build steady connection with mobile station. The power level control parameter ”0” of GSM1900,”All up” of WCDMA Band V .It means that requires mobile station to emit with maximum power.

The EUT shall use its internal transmitter. The antenna(s), battery and accessories shall be those specified by the manufacturer. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. If a wireless link is used, the antenna connected to the output of the base station simulator shall be placed at least 50 cm away from the handset. The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the handset by at least 30 dB.

4.2. GSM Test Configuration

SAR tests for GSM 1900, a communication link is set up with a System Simulator (SS) by air link. Using E5515C the power lever is set to”0” in head SAR and body SAR of GSM1900,

The test in the band of GSM 1900 is performed in the mode of speech transfer function and GPRS/EGPRS. And since the GPRS/EGPRS class is 10 for this EUT, it has at most 2 timeslots in uplink.

4.3. WCDMA Test Configuration

4.3.1. Output power Verification

Maximum output power is verified on the High, Middle and Low channel according to the procedures described in section 5.2 of 3GPP TS 34. 121, using the appropriate RMC or AMR with TPC(transmit power control) set to all “1’s” for WCDMA/HSDPA or applying the required inner loop power control procedures to the maximum output power while HSUPA is active. Results for all applicable physical channel configuration (DPCCH, $DPDCH_n$ and spreading codes, HSDPA, HSPA) should be tabulated in the SAR report. All configuration that are not supported by the DUT or can not be measured due to technical or equipment limitations should be clearly identified.

4.3.2. Head SAR Measurements

SAR for head exposure configurations in voice mode is measured using a 12.2kbps RMC with TPC bits configured to all “1’s”. SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2kbps AMR is less than 1/4 dB higher than that measured in 12.2 kbps RMC. Otherwise, SAR is measured on the maximum output channel in 12.2kbps AMR with a 3.4 kbps SRB(Signaling radio bearer) using the exposure configuration that results in the highest SAR in 12.2kbps RMC for that RF channel.

4.3.3. Body SAR Measurements

SAR for body exposure configurations in voice and data modes is measured using 12.2kbps RMC with TPC bits configured to all ”1’s”. SAR for other spreading codes and multiple $DPDCH_n$, when supported by the DUT, are not required when the maximum average output of each RF channel, for each spreading code and $DPDCH_n$ configuration, are less than 1/4 dB higher than those measured in 12.2kbps RMC. Otherwise, SAR is measured on the maximum output channel with an applicable RMC configuration for the corresponding spreading code or $DPDCH_n$ using the exposure configuration that results in the highest SAR with 12.2 kbps RMC. When more than 2 $DPDCH_n$ are supported by the DUT, it may be necessary to configure additional $DPDCH_n$ for a DUT using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

5. SAR MEASUREMENTS SYSTEM CONFIGURATION

5.1. SAR Measurement Set-up

These measurements were performed with the automated near-field scanning system DASY4 from Schmid & Partner Engineering AG (SPEAG). The system is based on a high precision robot (working range greater than 0.9m) which positions the probes with a positional repeatability of better than ± 0.02mm. Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines (length =300mm) to the data acquisition unit.

A cell controller system contains the power supply, robot controller, teaches pendant (Joystick) and remote control, is used to drive the robot motors. The PC consists of the Micron Pentium III 800 MHz computer with Windows 2003 system and SAR Measurement Software DASY4, A/D interface card, monitor, mouse, and keyboard. The Stäubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, meCHanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

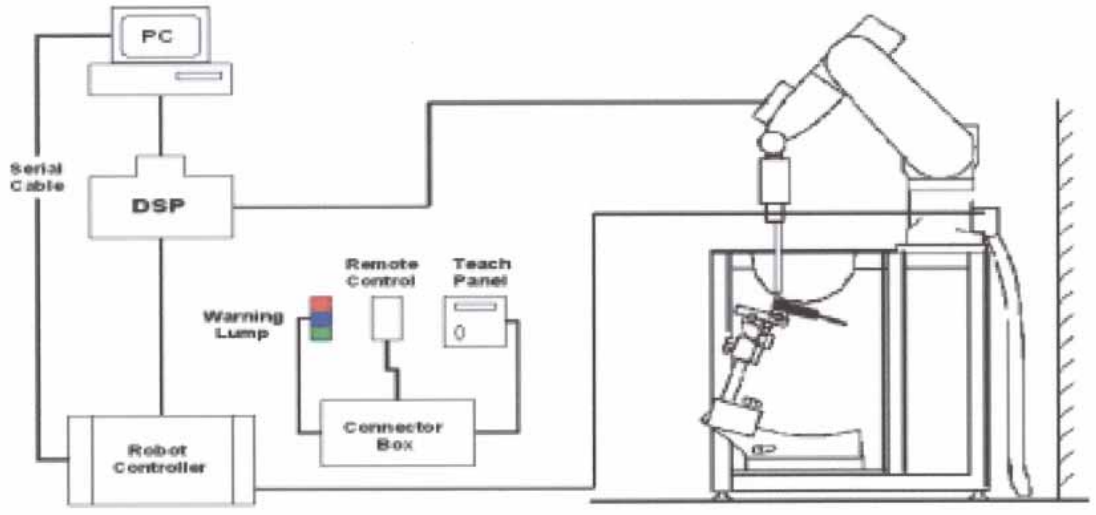


Figure 1. SAR Lab Test Measurement Set-up

The DAE4 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 PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.

5.2. Dasy4 E-field Probe System

The SAR measurements were conducted with the dosimetric probe ET3DV6 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe has been calibrated according to the standard procedure with an accuracy of better than ± 10%. The spherical isotropy was evaluated and found to be better than ± 0.25dB.

5.2.1. ET3DV6 Probe Specification

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection System (ET3DV6 only) Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.q., glycol)
Calibration	In air from 10 MHz to 2.5 GHz In brain and muscle simulating tissue at frequencies of 900MHz, 1750MHz, 1950MHz and 2450MHz (accuracy±8%) Calibration for other liquids and frequencies upon request
Frequency	10 MHz to 2.5 GHz; Linearity: ±0.2 dB (30 MHz to 2.5 GHz)
Directivity	±0.2 dB in brain tissue (rotation around probe axis) ±0.4 dB in brain tissue (rotation around probe axis)
Dynamic Range	5u W/g to > 100mW/g; Linearity: ±0.2dB
Surface Detection	±0.2 mm repeatability in air and clear liquids over diffuse reflecting surface
Dimensions	Overall length: 330mm Tip length: 16mm Body diameter: 12mm Tip diarneter: 6.8mm Distance from probe tip to dipole centers: 2.7mm
Application	General dosimetry up to 2.5GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

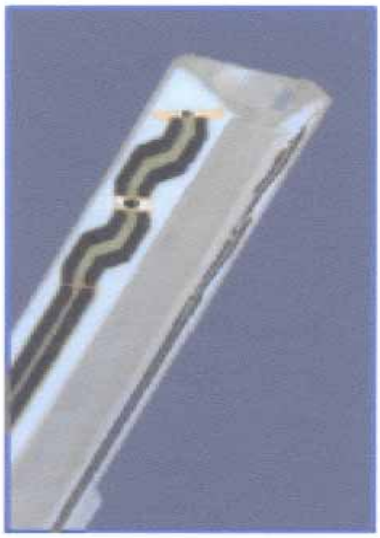


Figure 2.ET3DV6 E-field Probe

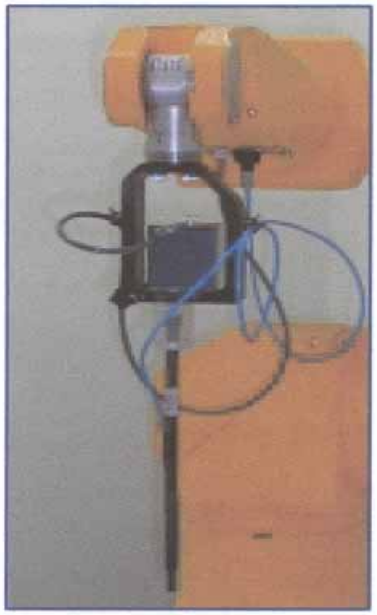


Figure 3. ET3DV6 E-field probe

5.2.2. E-field Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than ± 10%. The spherical isotropy was evaluated and found to be better than ± 0.25dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test Chamber. This is performed in a TEM cell for frequencies bellow 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.
E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$\mathbf{SAR} = \mathbf{C}\frac{\Delta T}{\Delta t}$$

Where: Δt = Exposure time (30 seconds),
C = Heat capacity of tissue (brain or muscle),
ΔT = Temperature increase due to RF exposure.
Or

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

Where:
σ = Simulated tissue conductivity,
ρ = Tissue density (kg/m3).

5.3. Other Test Equipment

5.3.1. Device Holder for Transmitters

In combination with the Generic Twin Phantom V3.0, the Mounting Device (POM) enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeat ably positioned according to the FCC and CENELEC specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).

Figure 4. Device Holder

5.3.2. Phantom

The Generic Twin Phantom is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is based on data from an anatomical study designed to determine the maximum exposure in at least 90% of all users. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.

Shell Thickness	2±0.1 mm
Filling Volume	Approx. 20 liters
Dimensions	810 x l000 x 500 mm (H x L x W)
Available	Special

Figure 5. Generic Twin Phantom

5.4. Scanning procedure

The DASY4 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

- The ”reference“ and ”drift“ measurements are located at the beginning and end of the batch process.
  They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT’s output power and should vary max± 5 %.

- The ”surface check“ measurement tests the optical surface detection system of the DASY4 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above ± 0.1mm). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within ± 30°.)

- The “area scan“ measures the SAR above the DUT or verification dipole on a parallel plane to the surface. It is used to locate the approximate location of the peak SAR with 2D spline interpolation. The robot performs a stepped movement along one grid axis while the local electrical field strength is measured by the probe. The probe is touching the surface of the SAM during acquisition of measurement values. The standard scan uses large grid spacing for faster measurement. Standard grid
  spacing for head measurements is 15 mm in x- and y- dimension. If a finer resolution is needed, the grid spacing can be reduced. Grid spacing and orientation have no influence on the SAR result. For special applications where the standard scan method does not find the peak SAR within the grid, e.g. mobile phones with flip cover, the grid can be adapted in orientation.

- A” 7x7x7 zoom scan” measures the field in a volume around the 2D peak SAR value acquired in the previous ”coarse“ scan. This is a fine 7x7 grid where the robot additionally moves the probe in 7 steps along the z-axis away from the bottom of the Phantom. Grid spacing for the cube measurement is 5mm in x and y-direction and 5 mm in z-direction. DASY4 is also able to perform repeated zoom scans if more than 1 peak is found during area scan.

- A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube 7x7x7 scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 2mm steps.

5.5. Data Storage and Evaluation

5.5.1. Data Storage

The DASY4 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DA4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

5.5.2. Data Evaluation by SEMCAD

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

Probe parameters:	- Sensitivity	Normi, ai_0, a_{i1}, a_{i2}
	- Conversion factor	$ConvF_i$
	- Diode compression point	Dcp_i
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY4 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for

peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

With V_i = compensated signal of channel i (i = x, y, z)

U_i = input signal of channel i (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp_i = diode compression point (DASY parameter)

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

E-field probes: $E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$

H-field probes: $H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1} f + a_{i2} f^2) / f$

With V_i = compensated signal of channel i (i = x, y, z)

$Norm_i$ = sensor sensitivity of channel i (i = x, y, z)
[mV/(V/m)^2] for E-field Probes

$ConvF$ = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E_i = electric field strength of channel i in V/m

H_i = magnetic field strength of channel i in A/m

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

$$E_{tot} = (E_x^2 + E_Y^2 + E_z^2)^{1/2}$$

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

$$SAR = (E_{tot}^2 \cdot \sigma) / (\rho \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

σ = conductivity in [mho/m] or [Siemens/m]

ρ = equivalent tissue density in g/cm^3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \quad \text{or} \quad \boldsymbol{P_{pwe} = H_{tot}^2 \cdot 37.7}$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm^2

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m

5.6. System Specifications

5.6.1. Robotic System Specifications

Specifications

Positioner: Stäubli Unimation Corp. Robot Model: RX90L
Repeatability: ±0.02 mm
No. of Axis: 6

Data Acquisition Electronic (DAE) System

Cell Controller

Processor: Pentium III
Clock Speed: 800 MHz
Operating System: Windows 2003

Data Converter

Features: Signal Amplifier, multiplexer, A/D converter, and control logic
Software: DASY4 software
Connecting Lines: Optical downlink for data and status info. Optical uplink for commands and clock.

5.7. System validation

System validation is performed by using a validation dipole which is positioned parallel to the planar part of the SAM phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a plexiglass spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 1000 mW. To adjust this power a power meter is used. The power sensor is connected to the cable before the validation to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the validation to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test.

Validation results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system (±10 %).

System validation is performed regularly on all frequency bands where tests are performed with the DASY 4 system. Results are stored to have a long time overview of system performance and are shown in EN test reports at request.

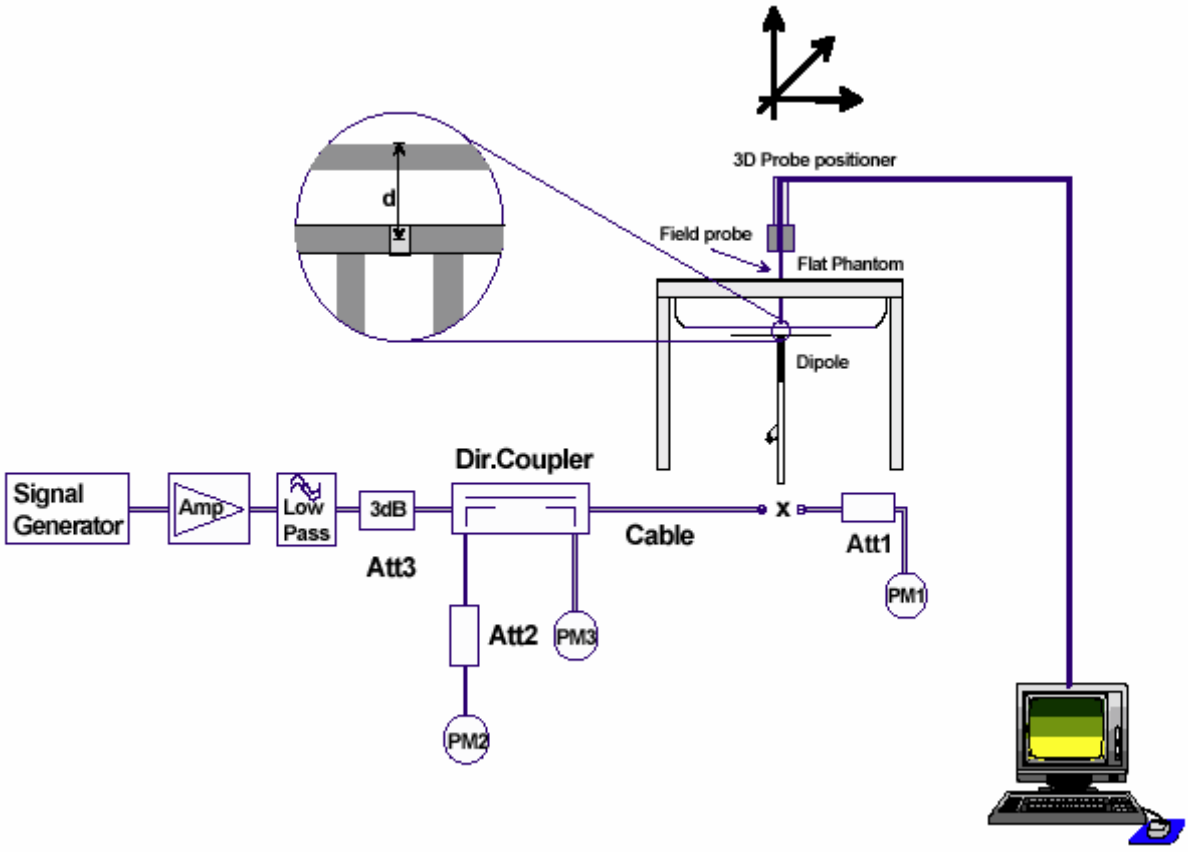


Figure 6. System validation Set-up

5.8. Equivalent Tissues

The liquid used for the frequency range of 800-2000 MHz consisted of water, sugar, salt, Preventol,Glycol and Cellulose. The liquid has previously been proven to be suited for worst-case. The Table 5 and Table 6 show the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528.

Table 5: Composition of the Head Tissue Equivalent Matter

MIXTURE%	FREQUENCY(Brain) 835MHz
Water	41.45
Sugar	56
Salt	1.45
Preventol	0.1
Cellulose	1.0
Dielectric Parameters Target Value	f=835MHz ε=41.5 σ=0.9

MIXTURE%	FREQUENCY(Brain)1900MHz
Water	55.242
Glycol monobutyl	44.452
Salt	0.306
Dielectric Parameters Target Value	f=1900MHz ε=40.0 σ=1.40

Table 6: Composition of the Body Tissue Equivalent Matter

MIXTURE%	FREQUENCY(Body)835MHz
Water	52.5
Sugar	45
Salt	1.4
Preventol	0.1
Cellulose	1.0
Dielectric Parameters Target Value	f=835MHz ε=55.2 σ=0.97

MIXTURE%	FREQUENCY (Body) 1900MHz
Water	69.91
Glycol monobutyl	29.96
Salt	0.13
Dielectric Parameters Target Value	f=1900MHz ε=53.3 σ=1.52

6. LABORATORY ENVIRONMENT

Table 7: The Ambient Conditions during Test

Temperature	Min. = 20°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

7. CHARACTERISTICS OF THE TEST

7.1. Applicable Limit Regulations

EN 50360–2001: Product standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones.
It specifies the maximum exposure limit of 2.0 W/kg as averaged over any 10 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

ANSI C95.1–2005: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

7.2. Applicable Measurement Standards

BS EN 62209-1:2006: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)

IEEE 1528–2003: Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head Due to Wireless Communications Devices: Experimental Techniques.

OET Bulletin 65 supplement C, published June 2001 including DA 02-1438, published June 2002: Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits. Transition Period for the Phantom Requirements of Supplement C to OET Bulletin 65.

IEC 62209-2: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures –Part 2: Procedure to determine the Specific Absorption Rate (SAR) in the head and body for 30MHz to 6GHz Handheld and Body-Mounted Devices used in close proximity to the body.

8. CONDUCTED OUTPUT POWER MEASUREMENT

8.1. Summary

During the process of testing, the EUT was controlled via Digital Radio Communication tester to ensure the maximum power transmission and proper modulation. This result contains conducted output power and ERP for the EUT. In all cases, the measured peak output power should be greater and with in 5% than EMI measurement.

8.2. Power Drift

To control the output power stability during the SAR test, DASY4 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in Table 12 to Table 19 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 0.21dB.

8.3. Conducted Power

8.3.1. Measurement Methods

The EUT was set up for the maximum output power. The channel power was measured .The measurements were done both before and after SAR tests for each test band.

8.3.2. Measurement result

Table 8: Conducted Power Measurement Results

GSM 1900	**Conducted Power**		
	Channel 512	Channel 661	Channel 810
	(1850.2MHz)	(1880MHz)	(1909.8MHz)
Before Test (dBm)	28.57	28.40	28.62
After Test (dBm)	28.58	28.42	28.60
GSM 1900+GPRS	**Conducted Power**		
	Channel 512	Channel 661	Channel 810
	(1850.2MHz)	(1880MHz)	(1909.8MHz)
Before Test (dBm)	28.58	28.41	28.61
After Test (dBm)	28.58	28.42	28.60
WCDMA Band V (12.2kbps RMC)	**Conducted Power**		
	Channel 4132	Channel 4182	Channel 4233
	(826.4MHz)	(836.4MHz)	(846.6MHz)
Before Test (dBm)	21.75	21.94	21.80
After Test (dBm)	21.77	21.93	21.81
WCDMA Band V (64kbps RMC)	**Conducted Power**		
	Channel 4132	Channel 4182	Channel 4233
	(826.4MHz)	(836.4MHz)	(846.6MHz)
Before Test (dBm)	21.75	21.94	21.80
After Test (dBm)	21.76	21.94	21.80
WCDMA Band V (144kbps RMC)	**Conducted Power**		
	Channel 4132	Channel 4182	Channel 4233
	(826.4MHz)	(836.4MHz)	(846.6MHz)
Before Test (dBm)	21.75	21.93	21.81
After Test (dBm)	21.74	21.93	21.80
WCDMA Band V (384kbps RMC)	**Conducted Power**		
	Channel 4132	Channel 4182	Channel 4233
	(826.4MHz)	(836.4MHz)	(846.6MHz)
Before Test (dBm)	21.76	21.95	21.82
After Test (dBm)	21.74	21.93	21.81

9. TEST RESULTS

9.1. Dielectric Performance

Table 9: Dielectric Performance of Head Tissue Simulating Liquid

Measurement is made at temperature 22.5 ℃ and relative humidity 51%. Liquid temperature during the test: 22.3℃					
Frequency (MHz)		**Target value**	**Measurement value**	**Difference percentage**	
835 (Brain)	Permittivity ε_r	41.50	42.95	3.49	%
	Conductivity σ	0.90	0.93	3.33	%
1900 (Brain)	Permittivity ε_r	40.00	40.18	0.45	%
	Conductivity σ	1.40	1.43	2.14	%

Table 10: Dielectric Performance of Body Tissue Simulating Liquid

Measurement is made at temperature 22.5 ℃ and relative humidity 51%. Liquid temperature during the test: 22.3℃					
Frequency (MHz)		**Target value**	**Measurement value**	**Difference percentage**	
835 (Body)	Permittivity ε_r	55.20	55.70	0.91	%
	Conductivity σ	0.97	1.01	4.12	%
1900 (Body)	Permittivity ε_r	53.30	52.09	-0.75	%
	Conductivity σ	1.52	1.50	-1.32	%

9.2. System Validation Results

Table 11: System Validation

Measurement is made at temperature 23.2 ℃, relative humidity 50%, and input power 250 mW. Liquid temperature during the test: 22.3℃							
Liquid parameters	**Frequency**	**Permittivity ε**		**Conductivity σ (S/m)**			
	835MHz	42.95		0.93			
	1900MHz	40.18		1.43			
Verification results	**Frequency**	**Target value (W/kg)**		**Measurement value (W/kg)**		**Difference percentage**	
		10 g Average	**1 g Average**	**10 g Average**	**1 g Average**	**10 g Average**	**1g Average**
	835MHz	1.56	2.43	1.53	2.34	-1.92%	-3.70%
	1900MHz	4.98	9.45	4.93	9.36	-1.00%	-0.95%

Note：

1. Target Values used derive from the SPEAG calibration certificate and 250 mW is used as feeding power to the validation dipole (SPEAG using).
2. The graph results see ANNEX D.

9.3. Summary of Measurement Results

Table 12: SAR Values (GSM1900, Head, Open)

Liquid Temperature: 22.5°C					
Limit of SAR (W/kg)		**10 g Average**	**1 g Average**	**Power Drift (dB)**	**Graph Results**
		2.0	**1.6**	**± 0.21**	
Test Case Of Head		**Measurement Result(W/kg)**		**Power Drift (dB)**	
Different Test Position	**Channel**	**10 g Average**	**1 g Average**		
Left hand, Touch cheek	High	0.133	0.225	-0.130	Figure 8
	Middle	0.144	0.243	0.016	Figure 10
	Low	0.162	0.270	0.003	Figure 12
Left hand, Tilt 15 Degree	High	0.088	0.149	0.134	Figure 14
	Middle	0.080	0.134	-0.059	Figure 16
	Low	0.082	0.133	0.004	Figure 18
Right hand, Touch cheek	High	0.111	0.181	-0.045	Figure 20
	Middle	0.131	0.212	-0.027	Figure 22
	Low	0.141	0.227	-0.031	Figure 24
Right hand, Tilt 15 Degree	High	0.111	0.192	-0.071	Figure 26
	Middle	0.114	0.192	-0.046	Figure 28
	Low	0.114	0.190	-0.011	Figure 30

Table 13: SAR Values (GSM1900, Body, Open, Distance 15mm)

Liquid Temperature: 22.5℃					
Limit of SAR (W/kg)		**10 g Average**	**1 g Average**	**Power Drift (dB)**	**Graph Results**
		2.0	**1.6**	**± 0.21**	
Test Case Of Body		**Measurement Result (W/kg)**		**Power Drift (dB)**	
Different Test Position	**Channel**	**10 g Average**	**1 g Average**		
Towards Ground	High	**0.193**	**0.319**	-0.061	Figure 32
	Middle	0.177	0.290	-0.048	Figure 34
	Low	0.181	0.293	-0.108	Figure 36
Towards Phantom	High	0.102	0.165	0.182	Figure 38
	Middle	0.087	0.140	0.038	Figure 40
	Low	0.087	0.137	-0.062	Figure 42
Worst case position of Body with Earphone					
Towards Ground	High	0.143	0.239	0.085	Figure 44
Worst case position of Body with Bluetooth Earphone					
Towards Ground	High	0.156	0.258	0.100	Figure 46
Test Case of Body with GPRS(2 timeslots in uplink)					
Towards Ground	High	**0.358**	**0.601**	-0.044	Figure 48
	Middle	0.341	0.556	-0.024	Figure 50
	Low	0.355	0.576	-0.075	Figure 52
Towards Phantom	High	0.189	0.309	-0.025	Figure 54
	Middle	0.173	0.276	0.023	Figure 56
	Low	0.178	0.281	0.034	Figure 58
Worst case position of GPRS with EGPRS					
Towards Phantom	High	0.135	0.223	0.084	Figure 60

Note: 1.The value with blue color is the maximum SAR Value of each test band.

2. Tests in body position were performed with 15 mm air gap between DUT and Phantom to simulate the use of a non-metallic belt-clip or holster.

Table 14: SAR Values (GSM1900, Head, Close)

Liquid Temperature: 22.5°C					
Limit of SAR (W/kg)		**10 g Average**	**1 g Average**	**Power Drift (dB)**	**Graph Results**
		2.0	**1.6**	**± 0.21**	
Test Case Of Head		**Measurement Result(W/kg)**		**Power Drift (dB)**	
		10 g Average	**1 g Average**		
Different Test Position	**Channel**				
Left hand, Touch cheek	High	0.142	0.226	-0.070	Figure 62
	Middle	0.146	0.229	0.037	Figure 64
	Low	0.159	0.250	-0.012	Figure 66
Left hand, Tilt 15 Degree	High	0.087	0.152	-0.078	Figure 68
	Middle	0.080	0.139	0.017	Figure 70
	Low	0.080	0.139	-0.028	Figure 72
Right hand, Touch cheek	High	0.153	0.241	-0.029	Figure 74
	Middle	0.151	0.238	-0.005	Figure 76
	Low	0.156	0.242	-0.004	Figure 78
Right hand, Tilt 15 Degree	High	0.099	0.178	0.020	Figure 80
	Middle	0.093	0.164	-0.026	Figure 82
	Low	0.098	0.172	-0.037	Figure 84

Table 15: SAR Values (GSM1900, Body, Close, Distance 15mm)

Liquid Temperature: 22.5℃					
Limit of SAR (W/kg)		**10 g Average**	**1 g Average**	**Power Drift (dB)**	**Graph Results**
		2.0	**1.6**	**± 0.21**	
Test Case Of Body		**Measurement Result (W/kg)**		**Power Drift (dB)**	
Different Test Position	**Channel**	**10 g Average**	**1 g Average**		
Towards Ground	High	**0.208**	**0.382**	-0.105	Figure 86
	Middle	0.188	0.348	-0.007	Figure 88
	Low	0.186	0.347	0.025	Figure 90
Towards Phantom	High	0.043	0.068	-0.005	Figure 92
	Middle	0.040	0.063	0.104	Figure 94
	Low	0.038	0.060	-0.023	Figure 96
Worst case position of Body with Earphone					
Towards Ground	High	0.194	0.358	0.156	Figure 98
Worst case position of Body with Bluetooth Earphone					
Towards Ground	High	0.202	0.375	0.198	Figure 100
Test Case of Body with GPRS(2 timeslots in uplink)					
Towards Ground	High	**0.298**	**0.546**	-0.006	Figure 102
	Middle	0.270	0.496	0.002	Figure 104
	Low	0.278	0.507	0.050	Figure 106
Towards Phantom	High	0.080	0.127	-0.107	Figure 108
	Middle	0.077	0.120	-0.075	Figure 110
	Low	0.075	0.115	-0.027	Figure 112
Worst case position of GPRS with EGPRS					
Towards Ground	High	0.159	0.293	-0.124	Figure 114

Note: 1. Tests in body position were performed with 15 mm air gap between DUT and Phantom to simulate the use of a non-metallic belt-clip or holster.

Table 16: SAR Values (WCDMA Band V, Head, Open)

Liquid Temperature: 22.5℃					
Limit of SAR (W/kg)		**10 g Average**	**1 g Average**	**Power Drift (dB)**	**Graph Results**
		2.0	**1.6**	**± 0.21**	
Test Case Of Head		**Measurement Result(W/kg)**		**Power Drift (dB)**	
Different Test Position	**Channel**	**10 g Average**	**1 g Average**		
Left hand, Touch cheek	High	0.362	0.490	0.107	Figure 116
	Middle	0.338	0.458	0.042	Figure 118
	Low	0.285	0.382	0.011	Figure 120
Left hand, Tilt 15 Degree	High	0.206	0.287	-0.016	Figure 122
	Middle	0.203	0.282	-0.010	Figure 124
	Low	0.167	0.231	-0.030	Figure 126
Right hand, Touch cheek	High	0.350	0.475	0.007	Figure 128
	Middle	0.342	0.460	-0.111	Figure 130
	Low	0.284	0.384	-0.077	Figure 132
Right hand, Tilt 15 Degree	High	0.205	0.285	0.183	Figure 134
	Middle	0.219	0.302	0.127	Figure 136
	Low	0.174	0.239	-0.115	Figure 138

Table 17: SAR Values (WCDMA Band V, Body, Open, Distance 15mm)

Liquid Temperature: 22.5℃					
Limit of SAR (W/kg)		**10 g Average**	**1 g Average**	**Power Drift (dB)**	**Graph Results**
		2.0	**1.6**	**± 0.21**	
Test Case Of Body		**Measurement Result (W/kg)**		**Power Drift (dB)**	
Different Test Position	**Channel**	**10 g Average**	**1 g Average**		
Towards Ground	High	0.381	0.527	-0.021	Figure 140
	Middle	**0.394**	**0.541**	-0.031	Figure 142
	Low	0.378	0.524	0.099	Figure 144
Towards Phantom	High	0.344	0.471	-0.149	Figure 146
	Middle	0.345	0.472	0.012	Figure 148
	Low	0.304	0.415	-0.007	Figure 150
Worst case position of Body with Earphone					
Towards Ground	Middle	0.305	0.420	0.051	Figure 152
Worst case position of Body with Bluetooth Earphone					
Towards Ground	Middle	0.375	0.516	-0.073	Figure 154

Note: 1.The value with blue color is the maximum SAR Value of each test band.

2. Tests in body position were performed with 15 mm air gap between DUT and Phantom to simulate the use of a non-metallic belt-clip or holster.

Table 18: SAR Values (WCDMA Band V, Head, Close)

Liquid Temperature: 22.5℃					
Limit of SAR (W/kg)		**10 g Average**	**1 g Average**	**Power Drift (dB)**	**Graph Results**
		2.0	**1.6**	**± 0.21**	
Test Case Of Head		**Measurement Result(W/kg)**		**Power Drift (dB)**	
Different Test Position	**Channel**	**10 g Average**	**1 g Average**		
Left hand, Touch cheek	High	0.169	0.228	-0.062	Figure 156
	Middle	0.143	0.192	0.022	Figure 158
	Low	0.154	0.208	0.011	Figure 160
Left hand, Tilt 15 Degree	High	0.118	0.164	-0.004	Figure 162
	Middle	0.102	0.142	0.019	Figure 164
	Low	0.110	0.152	-0.009	Figure 166
Right hand, Touch cheek	High	0.155	0.215	0.053	Figure 168
	Middle	0.139	0.189	-0.088	Figure 170
	Low	0.154	0.209	0.024	Figure 172
Right hand, Tilt 15 Degree	High	0.119	0.164	-0.079	Figure 174
	Middle	0.109	0.152	-0.068	Figure 176
	Low	0.118	0.164	0.021	Figure 178

Table 19: SAR Values (WCDMA Band V, Body, Close, Distance 15mm)

Liquid Temperature: 22.5℃					
Limit of SAR (W/kg)		**10 g Average**	**1 g Average**	**Power Drift (dB)**	**Graph Results**
		2.0	**1.6**	**± 0.21**	
Test Case Of Body		**Measurement Result (W/kg)**		**Power Drift (dB)**	
Different Test Position	**Channel**	**10 g Average**	**1 g Average**		
Towards Ground	High	0.247	0.360	-0.064	Figure 180
	Middle	0.217	0.313	0.040	Figure 182
	Low	**0.242**	**0.365**	0.111	Figure 184
Towards Phantom	High	0.095	0.130	-0.010	Figure 186
	Middle	0.081	0.111	0.015	Figure 188
	Low	0.090	0.122	0.065	Figure 190
Worst case position of Body with Earphone					
Towards Ground	Low	0.191	0.289	-0.003	Figure 192
Worst case position of Body with Bluetooth Earphone					
Towards Ground	Low	0.231	0.350	-0.043	Figure 194

Note: 1. Tests in body position were performed with 15 mm air gap between DUT and Phantom to simulate the use of a non-metallic belt-clip or holster.

9.4. Conclusion

Localized Specific Absorption Rate (SAR) of this portable wireless device has been measured in all cases requested by the relevant standards cited in Clause 7.2 of this report. Maximum localized SAR is below exposure limits specified in the relevant standards cited in Clause 7.1 of this test report.

10. MEASUREMENT UNCERTAINTY

No.	a	Type	c	d	e=f(d、k)	f	h=c×f／e	k
	Uncertainty Component		Tol. (±%)	Prob. Dist	Div.	c_1(1g)	1g u (± %)	v_1
1	System repetivity	A	0.5	N	1	1	0.5	9
	Measurement system							
2	Probe Calibration	B	5	N	2	1	2.5	∞
3	Axial isotropy	B	4.7	R	$\sqrt{3}$	$(1\text{-}cp)^{1/2}$	4.3	∞
4	Hemisphere Isotropy	B	9.4	R	$\sqrt{3}$	$\sqrt{C_P}$		∞
5	Boundary Effect	B	0.4	R	$\sqrt{3}$	1	0.23	∞
6	Linearity	B	4.7	R	$\sqrt{3}$	1	2.7	∞
7	System Detection Limits	B	1.0	R	$\sqrt{3}$	1	0.6	∞
8	Readout Electronics	B	1.0	N	1	1	1.0	∞
9	RF Ambient Conditions	B	3.0	R	$\sqrt{3}$	1	1.73	∞
10	Probe Positioner Mechanical Tolerance	B	0.4	R	$\sqrt{3}$	1	0.2	∞
11	Probe Positioning with respect to Phantom Shell	B	2.9	R	$\sqrt{3}$	1	1.7	∞
12	Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	B	3.9	R	$\sqrt{3}$	1	2.3	∞
	Test Sample Related							
13	Test Sample Positioning	A	4.9	N	1	1	4.9	N-1
14	Device Holder Uncertainty	A	6.1	N	1	1	6.1	N-1
15	Output Power Variation-SAR drift measurement	B	5.0	R	$\sqrt{3}$	1	2.9	∞
	Phantom and Tissue Parameters							
16	Phantom Uncertainty(shape and thickness tolerances)	B	1.0	R	$\sqrt{3}$	1	0.6	∞
17	Liquid Conductivity-deviation from target values	B	5.0	R	$\sqrt{3}$	0.64	1.7	∞
18	Liquid Conductivity-measurement uncertainty	B	5.0	N	1	0.64	1.7	M
19	Liquid Permittivity-deviation from target values	B	5.0	R	$\sqrt{3}$	0.6	1.7	∞
20	Liquid Permittivity- measurement uncertainty	B	5.0	N	1	0.6	1.7	M
Combined Standard Uncertainty				RSS			11.25	
Expanded Uncertainty (95 % CONFIDENCE INTERVAL)				K=2			22.5	

11. MAIN TEST INSTRUMENTS

Table 20: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	Agilent 8753E	US37390326	September 15, 2007	One year
02	Dielectric Probe Kit	Agilent 85070E	US44020115	No Calibration Requested	
03	Power meter	Agilent E4417A	GB41291714	March 14, 2008	One year
04	Power sensor	Agilent 8481H	MY41091316	March 14, 2008	One year
05	Signal Generator	HP 8341B	2730A00804	September 15, 2007	One year
06	Amplifier	IXA-020	0401	No Calibration Requested	
07	BTS	E5515C	GB46490218	September 15, 2007	One year
08	E-field Probe	ET3DV6	1531	January 29, 2008	One year
09	DAE	DAE4	452	July 21, 2008	One year
10	Validation Kit 835MHz	D835V2	443	December 9, 2007	One year
11	Validation Kit 1900MHz	D1900V2	5d018	March 21, 2008	One year

12. TEST PERIOD

The test is performed from September 1, 2008 to September 4, 2008.

13. TEST LOCATION

The test is performed at TA Technology (Shanghai) Co., Ltd.

*******END OF REPORT BODY*******

ANNEX A： MEASUREMENT PROCESS

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point was measured and was used as a reference value for assessing the power drop.

Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 3.9 mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15 mm x 15 mm. Based on this data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Around this point, a volume of 32 mm x 32 mm x 34 mm was assessed by measuring 7 x 7x 7 points. On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

a. The data at the surface were extrapolated, since the center of the dipoles is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.

b. The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot"-condition (in x ~ y and z-directions). The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.

c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation is repeated.

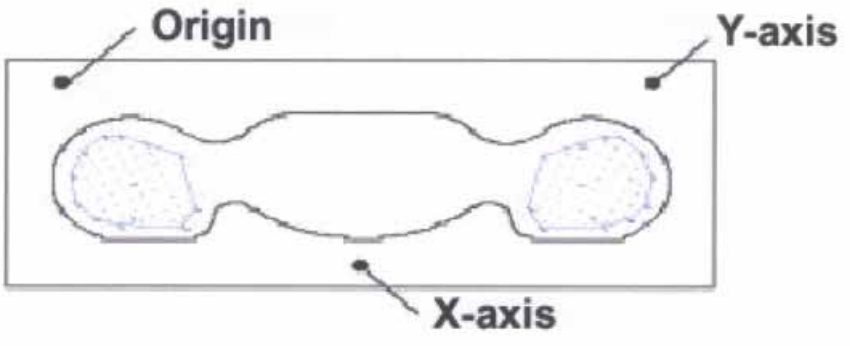


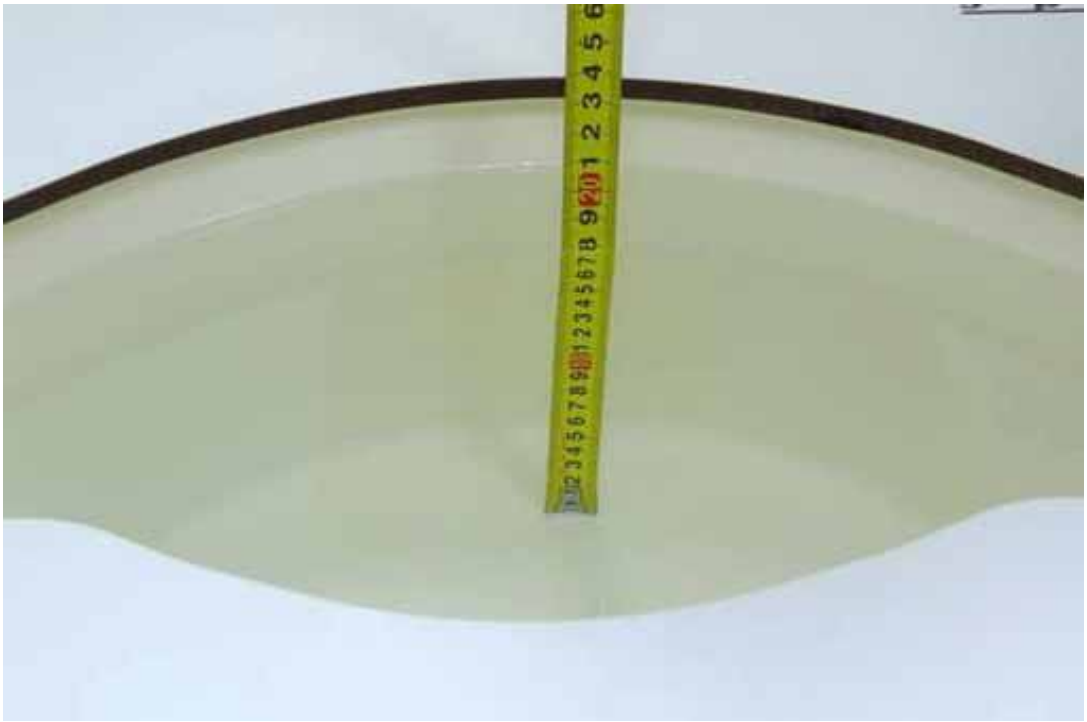
Figure 7 SAR Measurement Points in Area Scan

ANNEX B： TEST LAYOUT

Picture 1: Specific Absorption Rate Test Layout

Picture 2: Liquid depth in the flat Phantom (835MHz)

Picture 3: Liquid depth in the head Phantom (835MHz)



Picture 4: Liquid depth in the flat Phantom (1900 MHz)

Picture 5: liquid depth in the head Phantom (1900 MHz)

ANNEX C： GRAPH RESULTS

GSM 1900 Left Cheek High Open

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.44 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Cheek High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.240 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.90 V/m; Power Drift = -0.130 dB
Peak SAR (extrapolated) = 0.341 W/kg
SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.133 mW/g
Maximum value of SAR (measured) = 0.247 mW/g

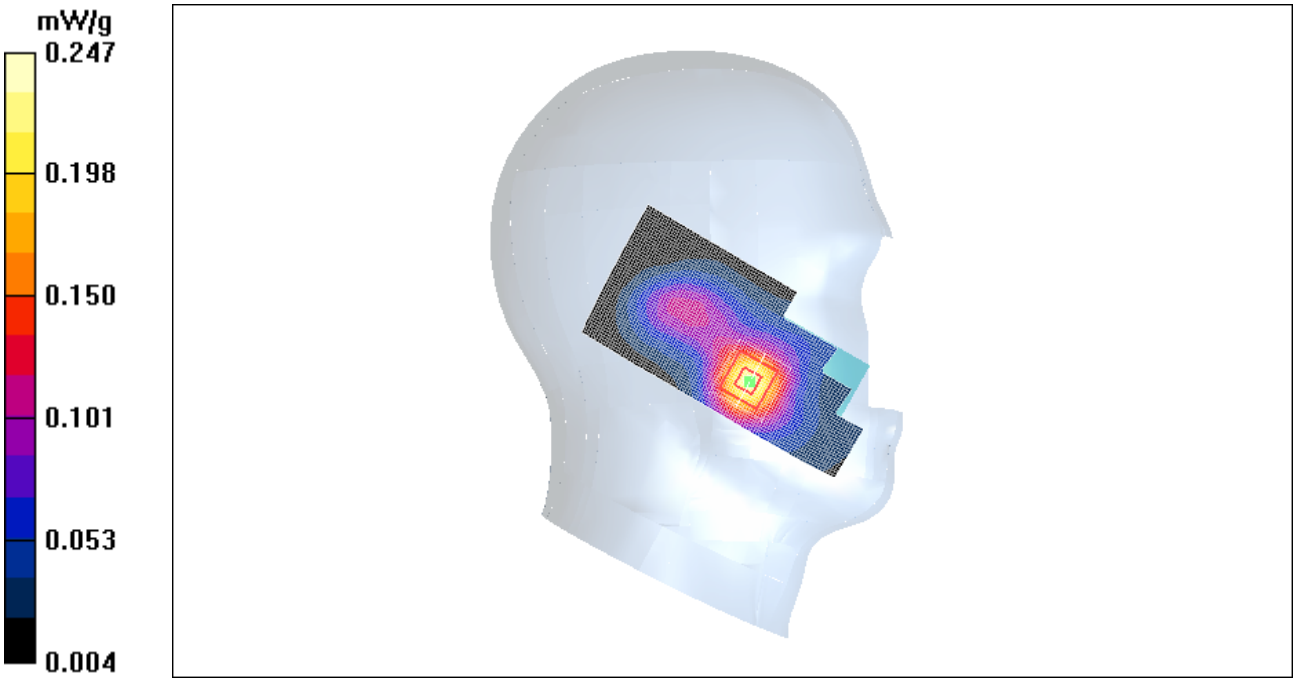


Figure 8 Left Hand Touch Cheek Open GSM 1900 Channel 810

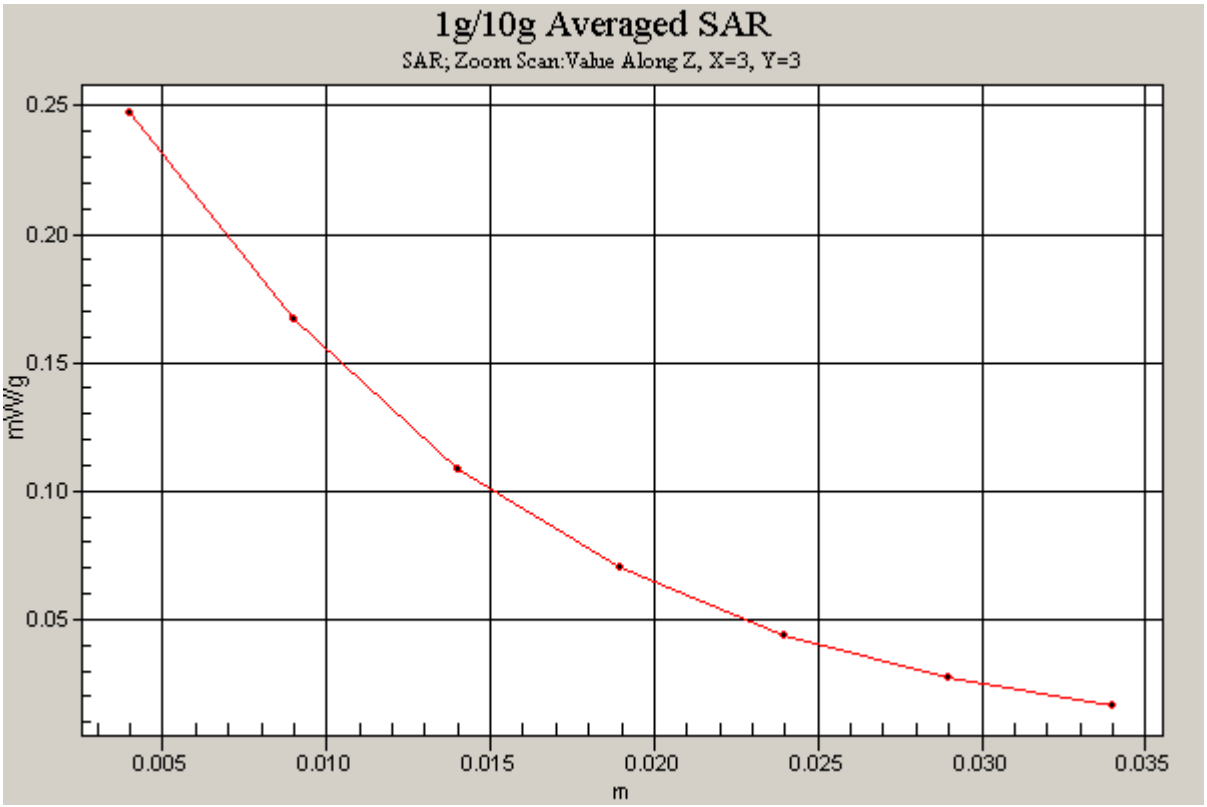


Figure 9 Z-Scan at power reference point (Left Hand Touch Cheek Open GSM 1900 Channel 810)

GSM 1900 Left Cheek Middle Open

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.41 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Cheek Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.258 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.52 V/m; Power Drift = 0.016 dB
Peak SAR (extrapolated) = 0.359 W/kg
SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.144 mW/g
Maximum value of SAR (measured) = 0.269 mW/g

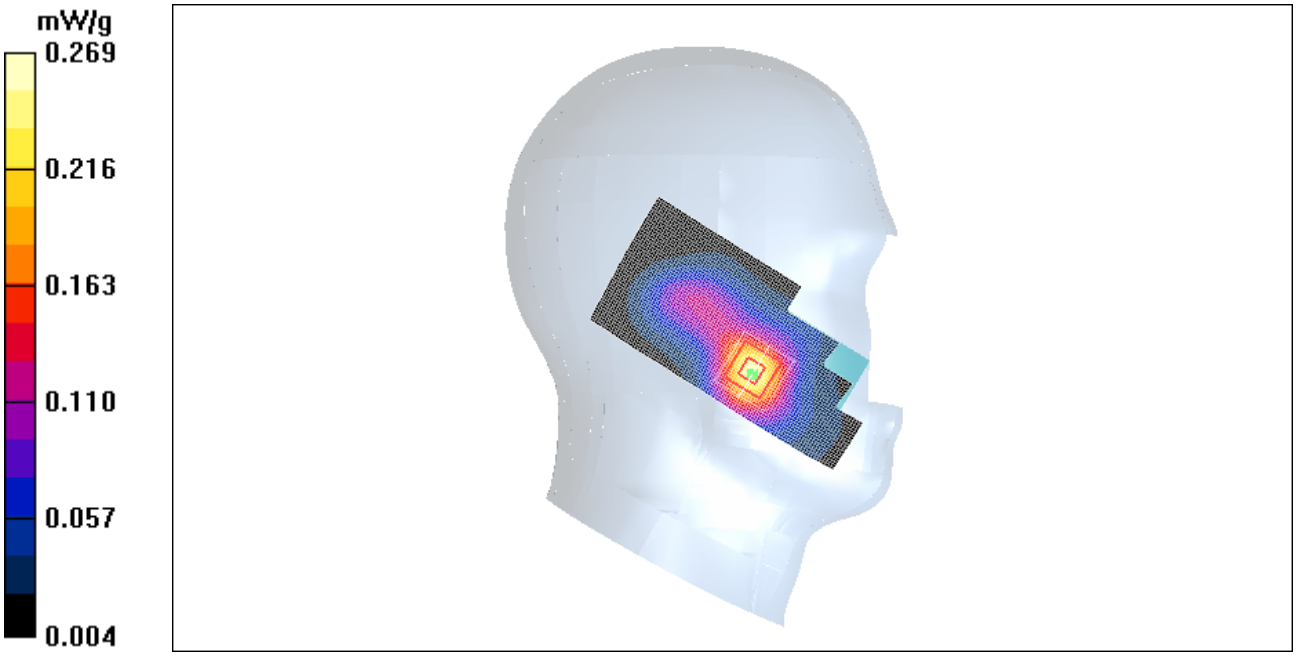


Figure 10 Left Hand Touch Cheek Open GSM 1900 Channel 661

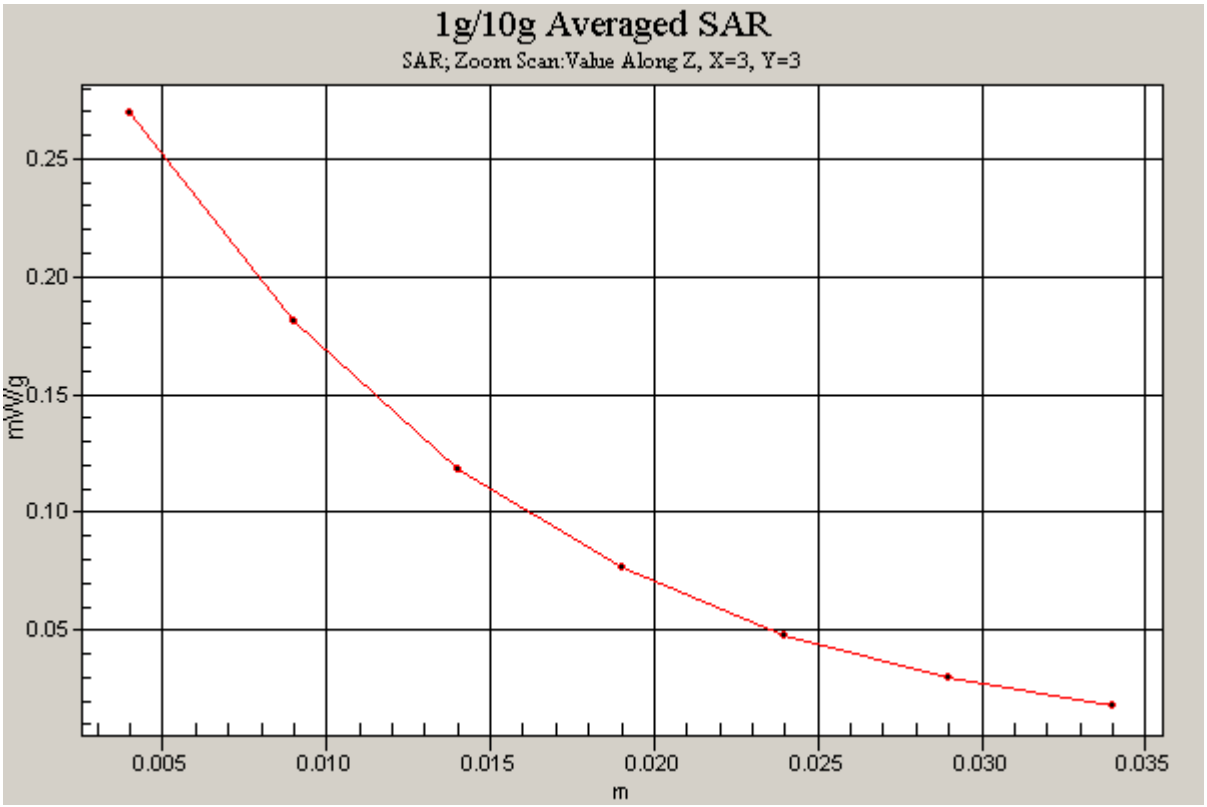


Figure 11 Z-Scan at power reference point (Left Hand Touch Cheek Open GSM 1900 Channel 661)

GSM 1900 Left Cheek Low Open

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.37 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Cheek Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.287 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.70 V/m; Power Drift = 0.003 dB
Peak SAR (extrapolated) = 0.395 W/kg
SAR(1 g) = 0.270 mW/g; SAR(10 g) = 0.162 mW/g
Maximum value of SAR (measured) = 0.297 mW/g

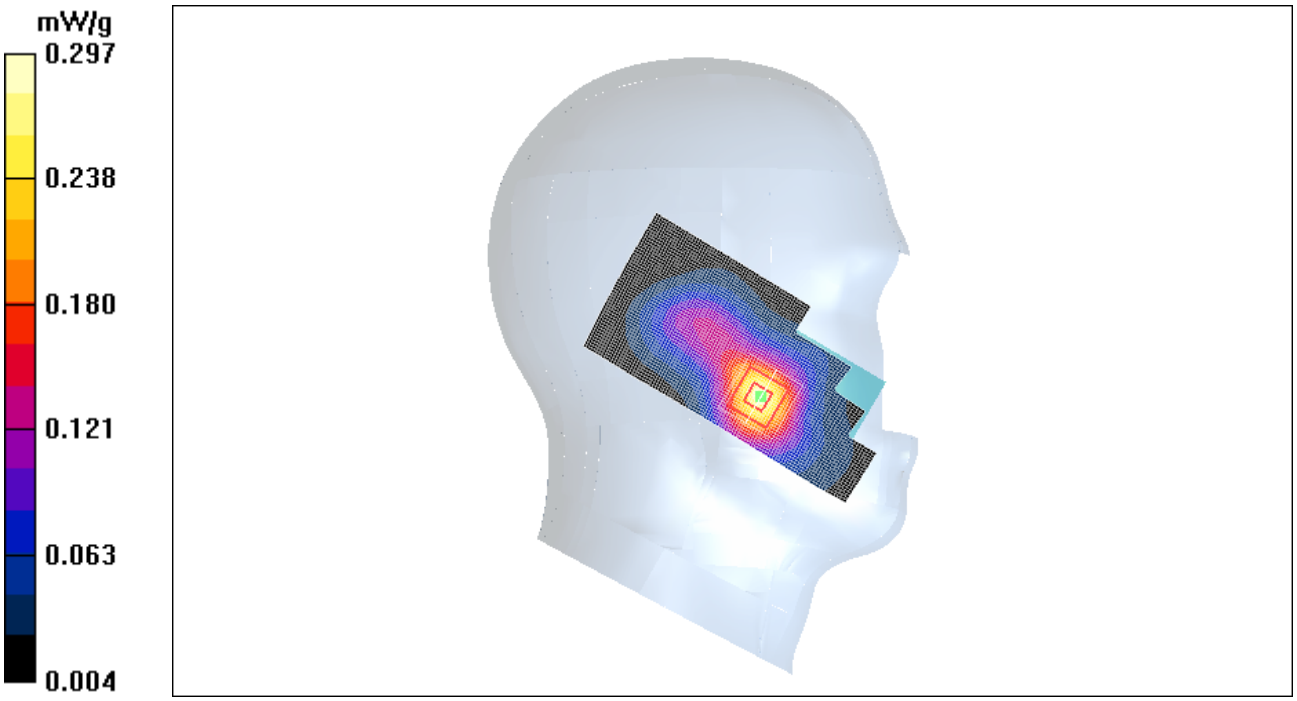


Figure 12 Left Hand Touch Cheek Open GSM 1900 Channel 512

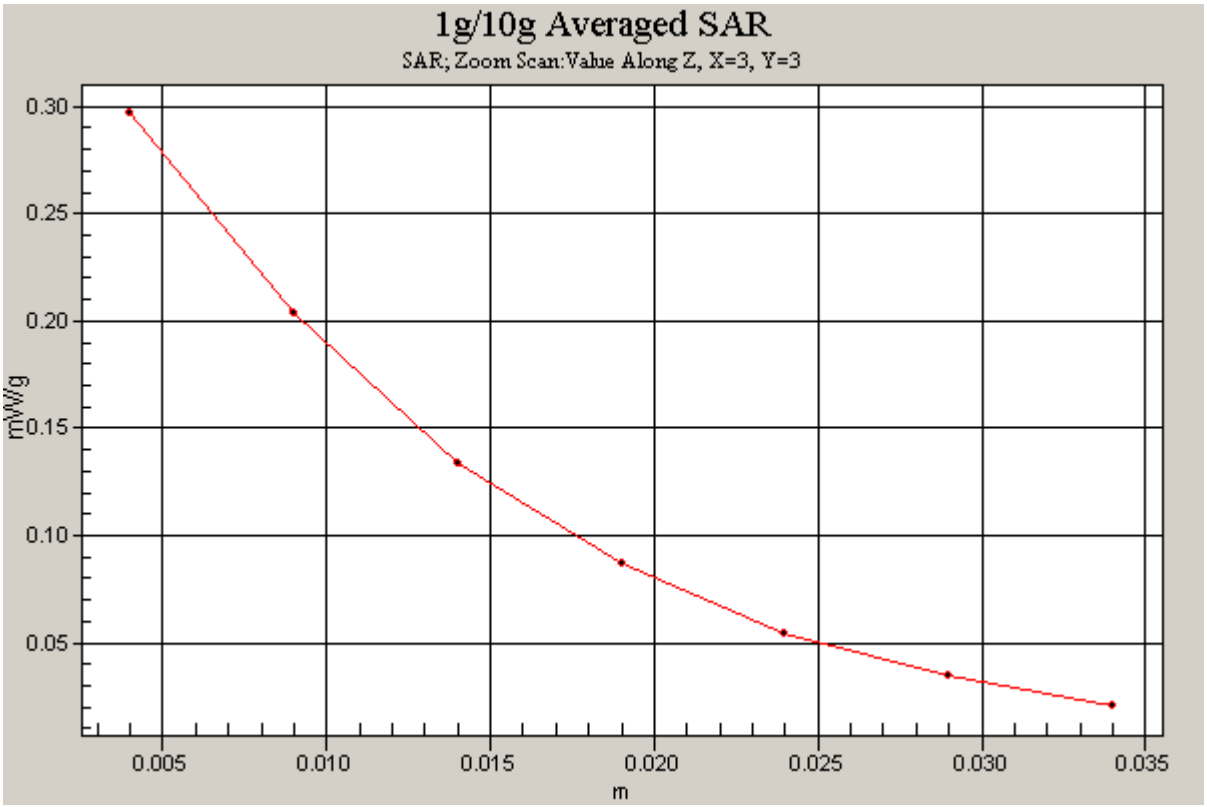


Figure 13 Z-Scan at power reference point (Left Hand Touch Cheek Open GSM 1900 Channel 512)

GSM 1900 Left Tilt High Open

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.44 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Tilt High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.162 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.55 V/m; Power Drift = 0.134 dB
Peak SAR (extrapolated) = 0.230 W/kg
SAR(1 g) = 0.149 mW/g; SAR(10 g) = 0.088 mW/g
Maximum value of SAR (measured) = 0.163 mW/g

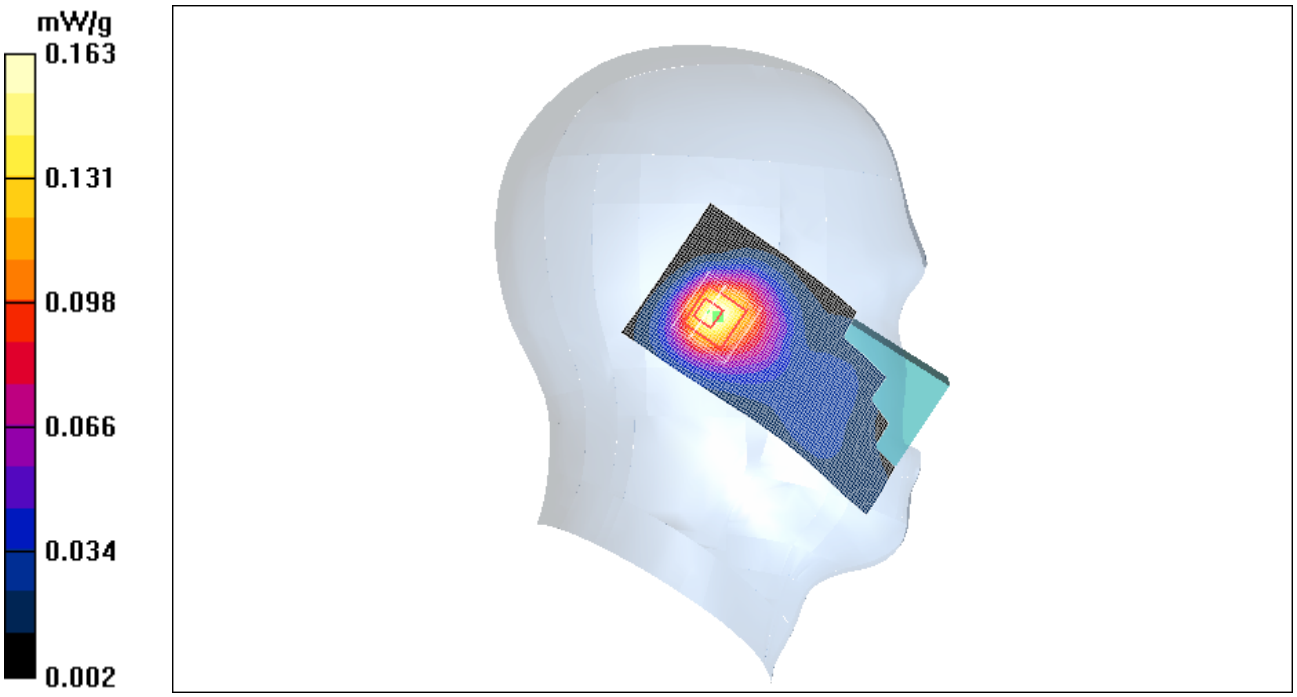


Figure 14 Left Hand Tilt 15°Open GSM 1900 Channel 810

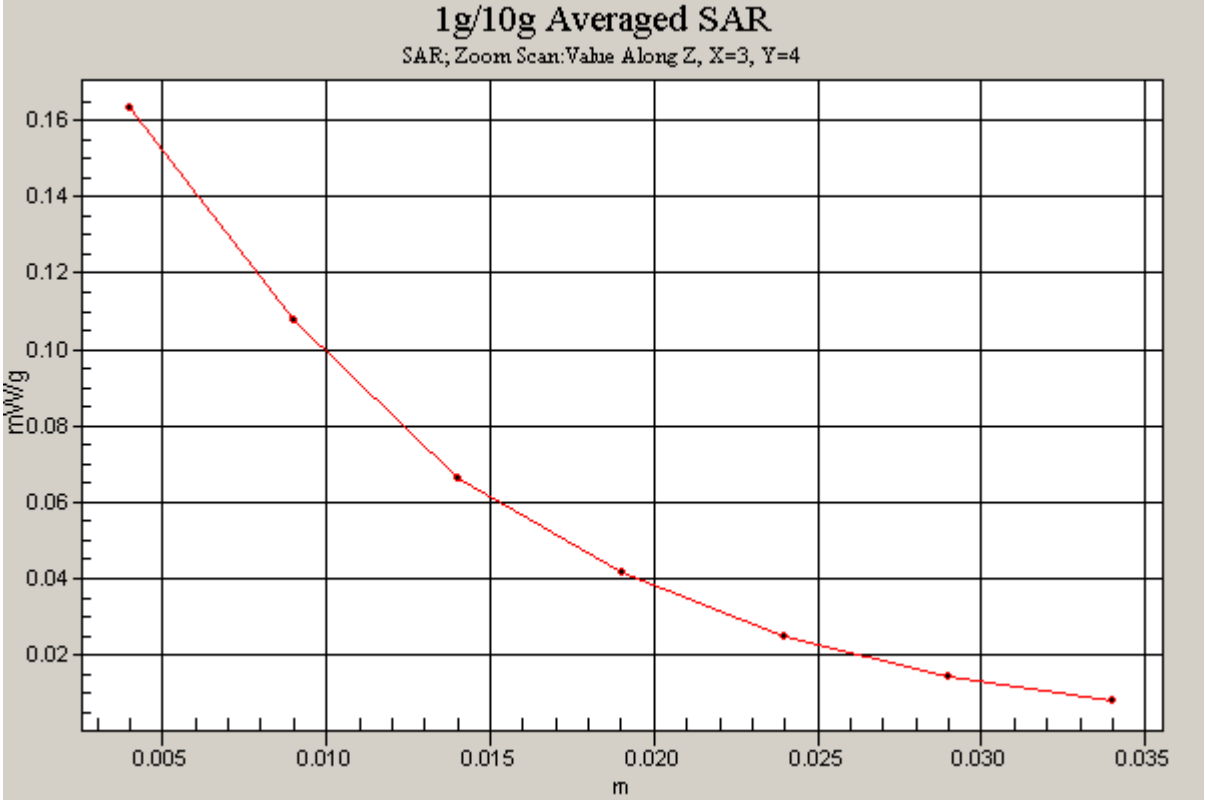


Figure 15 Z-Scan at power reference point (Left Hand Tilt 15°Open GSM 1900 Channel 810)

GSM 1900 Left Tilt Middle Open

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.41 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Tilt Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.153 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.35 V/m; Power Drift = -0.059 dB
Peak SAR (extrapolated) = 0.205 W/kg
SAR(1 g) = 0.134 mW/g; SAR(10 g) = 0.080 mW/g
Maximum value of SAR (measured) = 0.146 mW/g

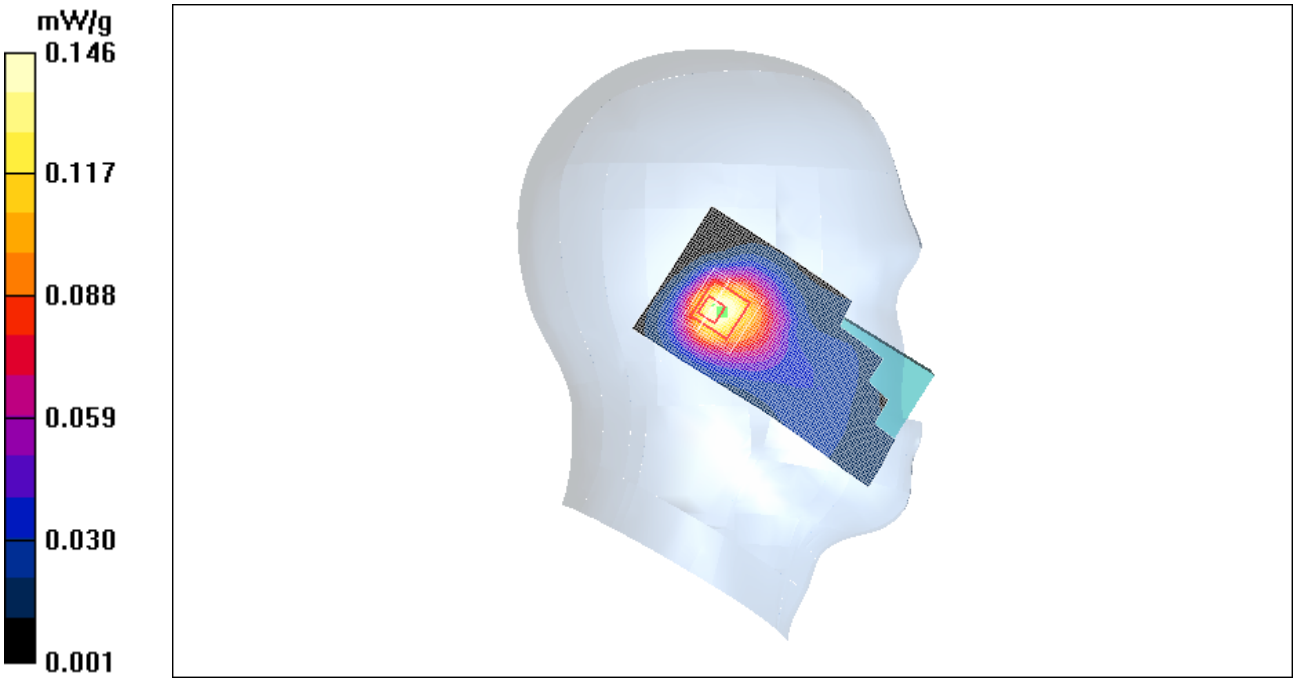


Figure 16 Left Hand Tilt 15 ° Open GSM 1900 Channel 661

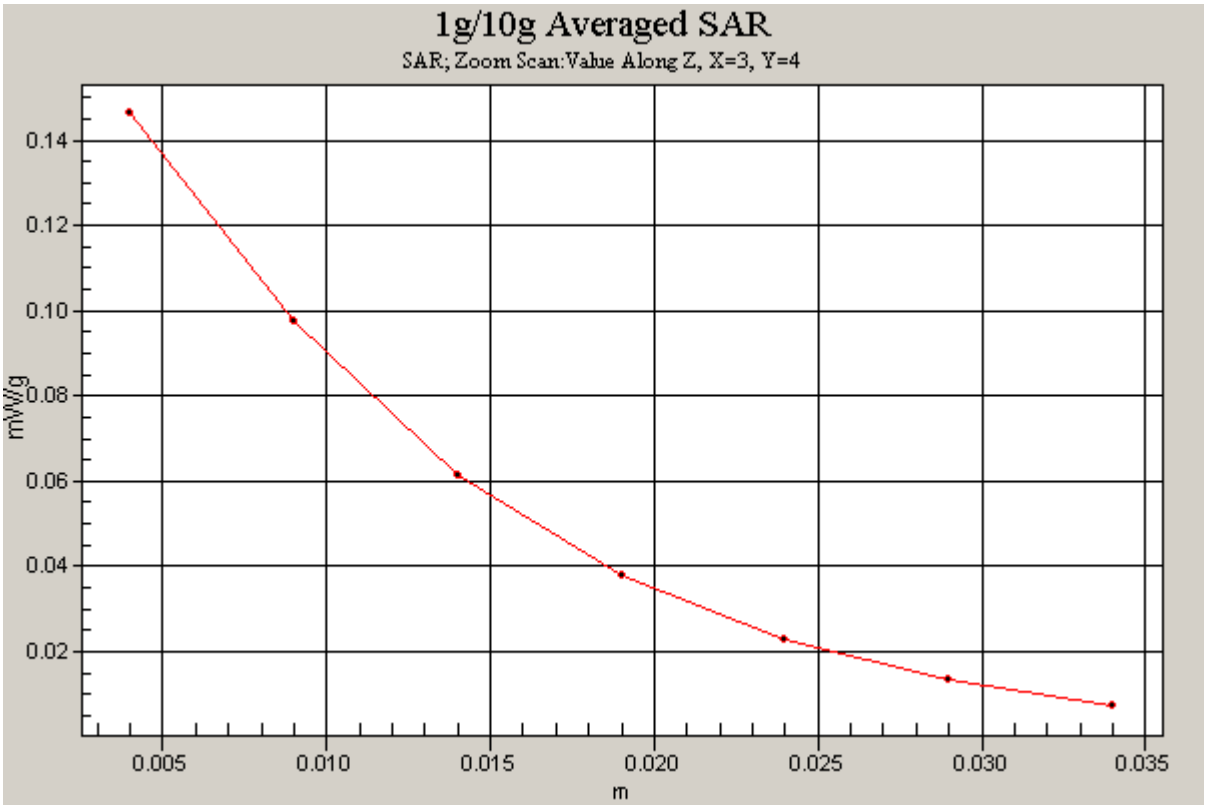


Figure 17 Z-Scan at power reference point (Left Hand Tilt 15 ° Open GSM 1900 Channel 661)

GSM 1900 Left Tilt Low Open

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.37 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Tilt Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.152 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.37 V/m; Power Drift = 0.004 dB
Peak SAR (extrapolated) = 0.200 W/kg
SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.082 mW/g
Maximum value of SAR (measured) = 0.145 mW/g

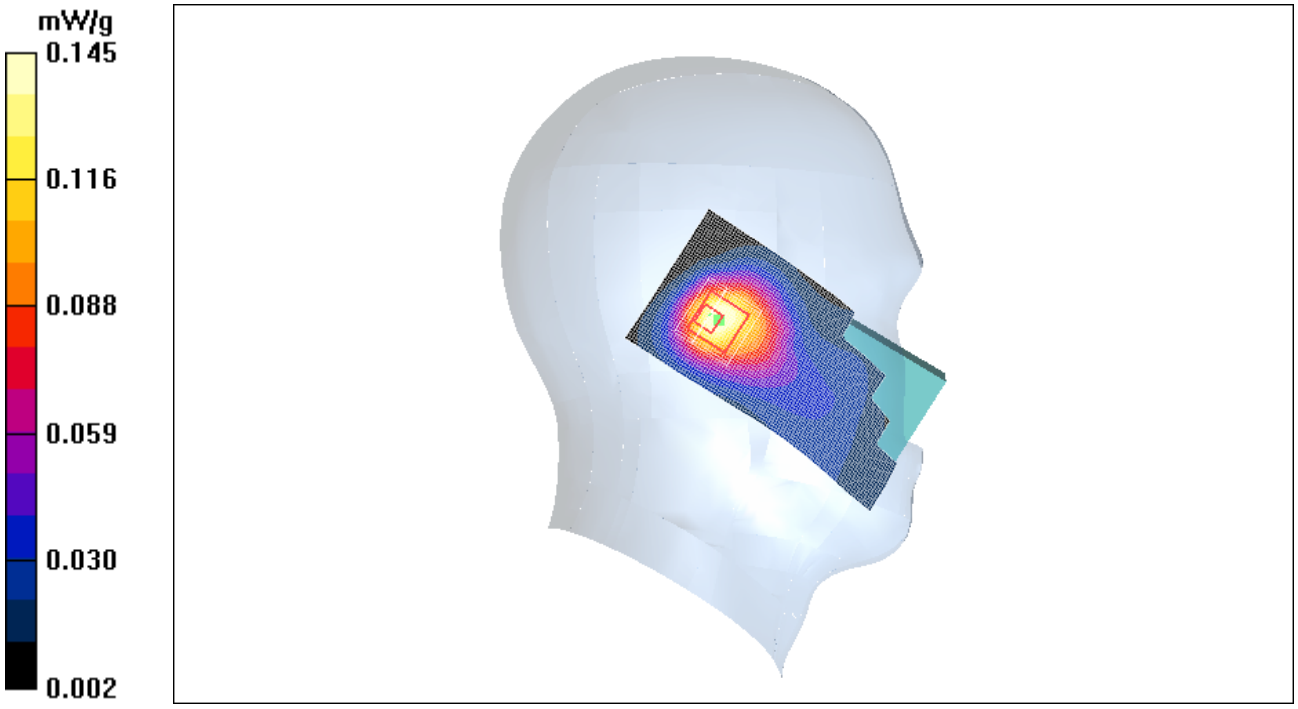


Figure 18 Left Hand Tilt 15 ° Open GSM 1900 Channel 512

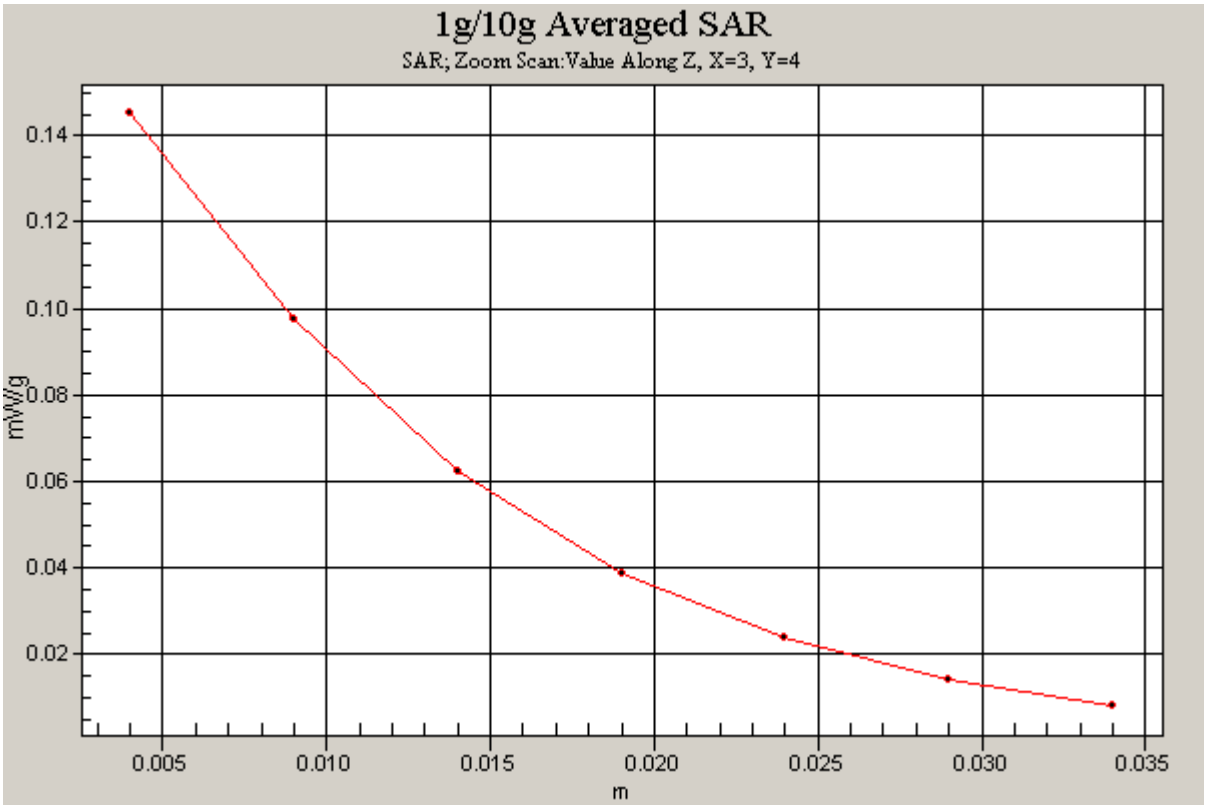


Figure 19 Z-Scan at power reference point (Left Hand Tilt 15 ° Open GSM 1900 Channel 512)

GSM 1900 Right Cheek High Open

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.44 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Cheek High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.191 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.33 V/m; Power Drift = -0.045 dB
Peak SAR (extrapolated) = 0.272 W/kg
SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.111 mW/g
Maximum value of SAR (measured) = 0.200 mW/g

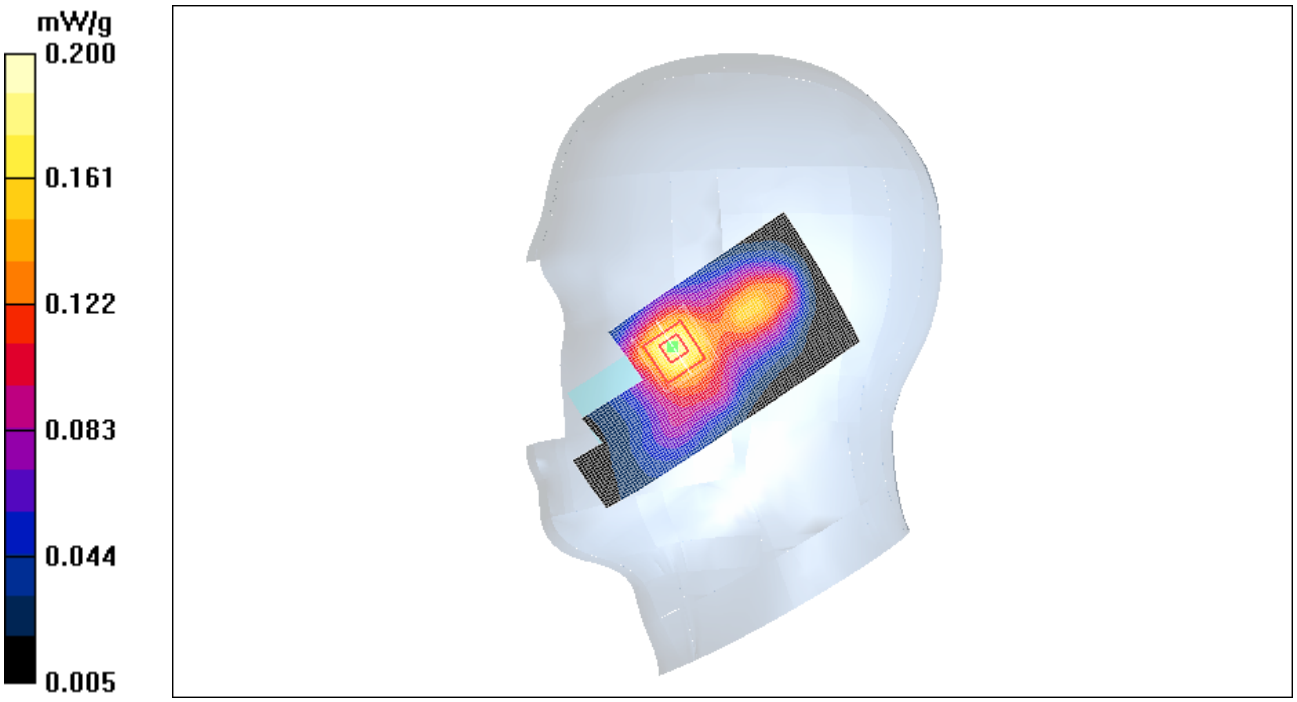


Figure 20 Right Hand Touch Cheek Open GSM 1900 Channel 810

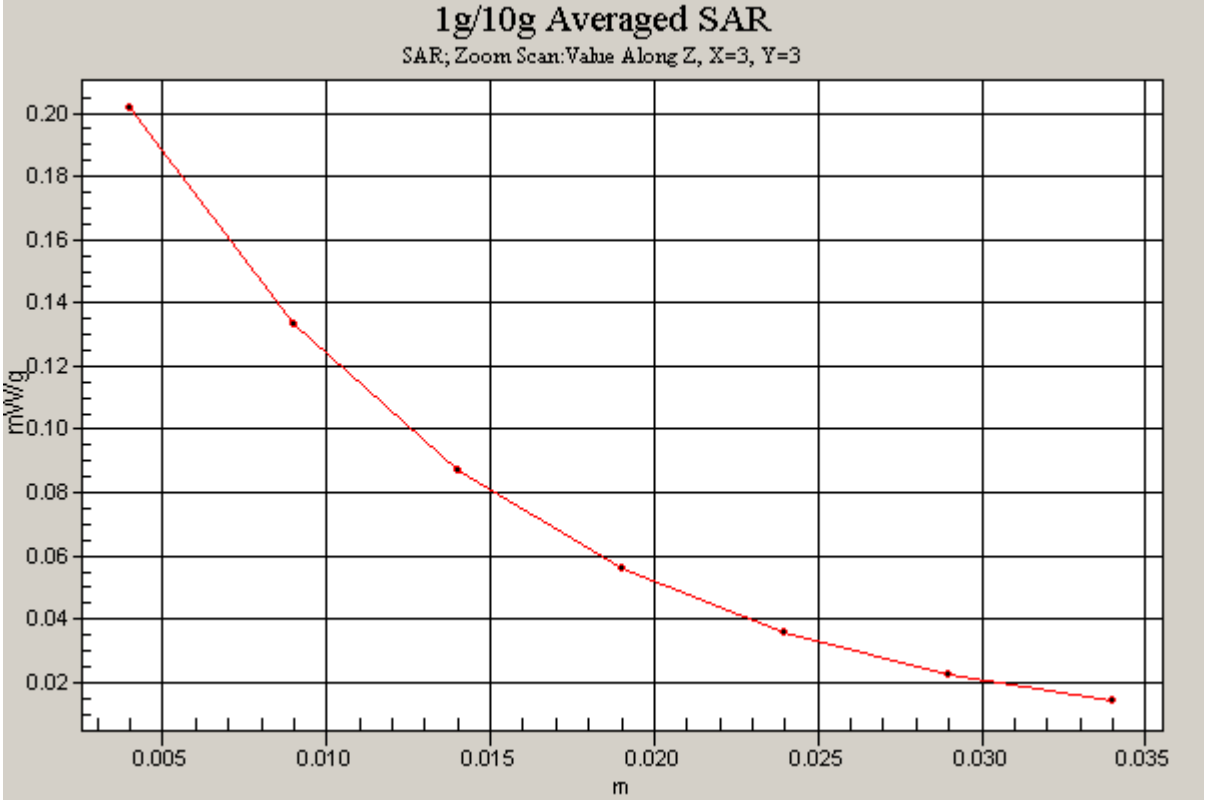


Figure 21 Z-Scan at power reference point (Right Hand Touch Cheek Open GSM 1900 Channel 810)

GSM 1900 Right Cheek Middle Open

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.41 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Cheek Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.223 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.09 V/m; Power Drift = -0.027 dB
Peak SAR (extrapolated) = 0.311 W/kg
SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.131 mW/g
Maximum value of SAR (measured) = 0.232 mW/g

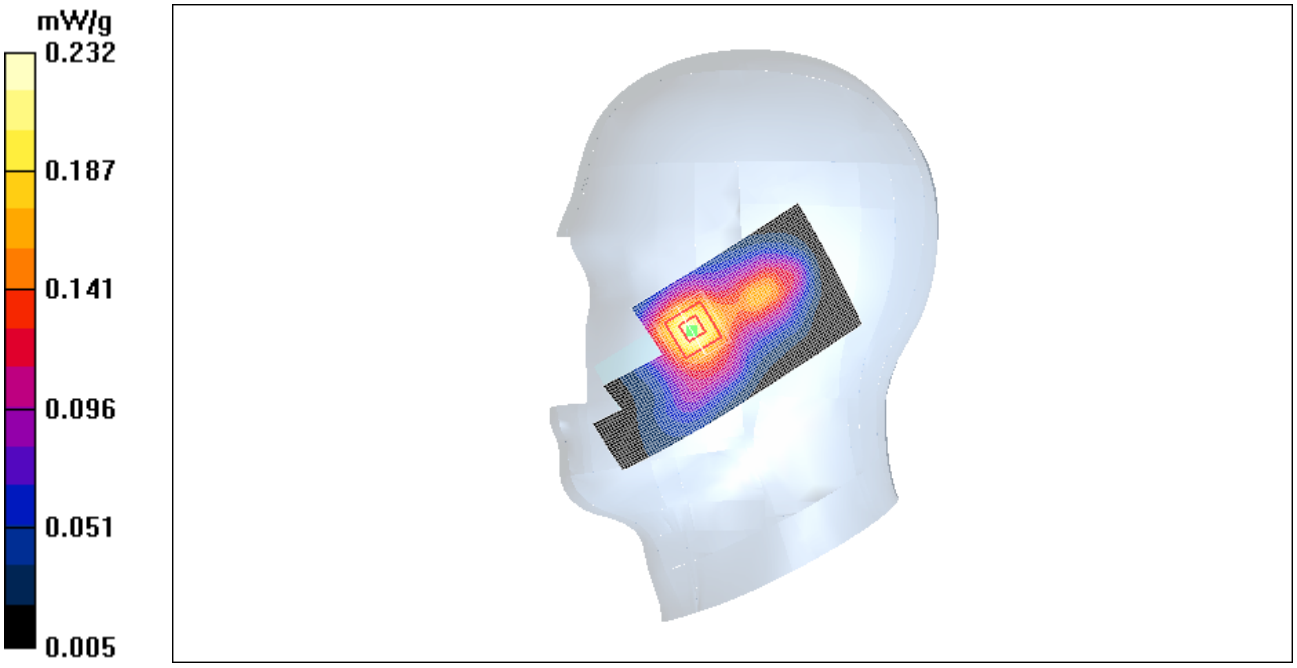


Figure 22 Right Hand Touch Cheek Open GSM 1900 Channel 661

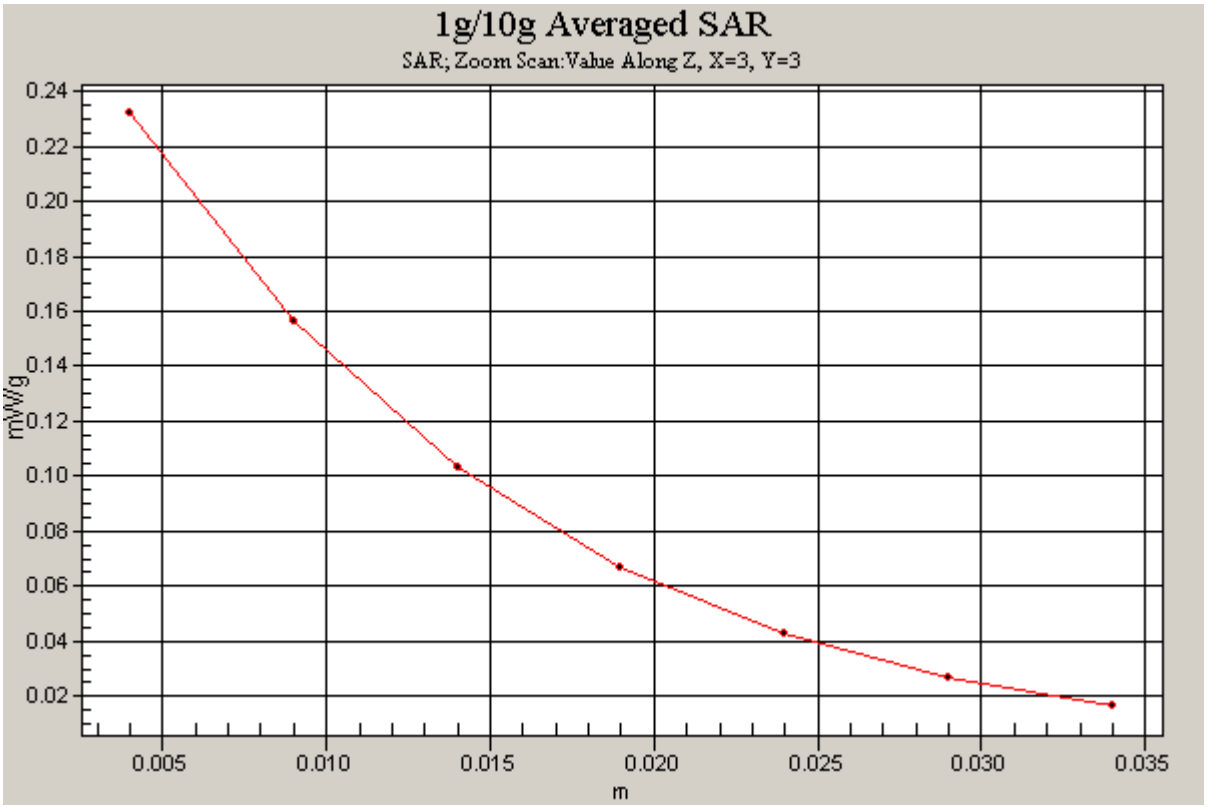


Figure 23 Z-Scan at power reference point (Right Hand Touch Cheek Open GSM 1900 Channel 661)

GSM 1900 Right Cheek Low Open

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.37 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Cheek Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.246 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.14 V/m; Power Drift = -0.031 dB
Peak SAR (extrapolated) = 0.328 W/kg
SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.141 mW/g
Maximum value of SAR (measured) = 0.246 mW/g

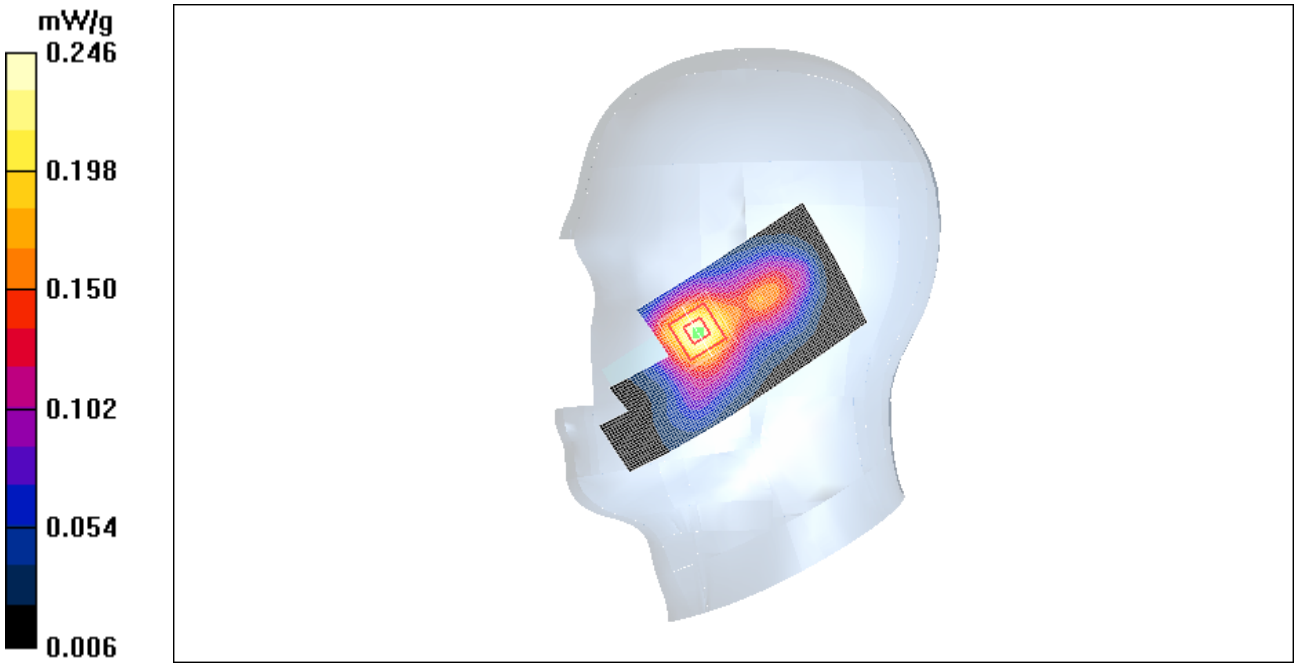


Figure 24 Right Hand Touch Cheek Open GSM 1900 Channel 512

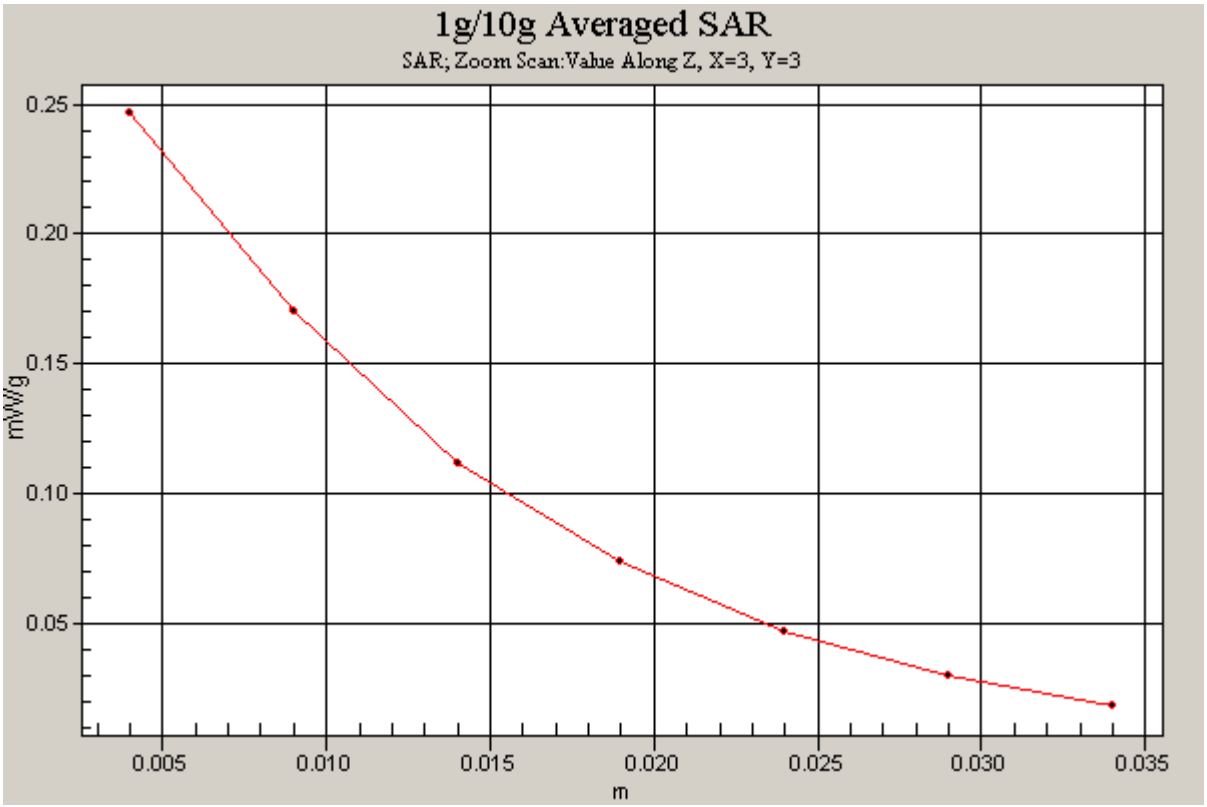


Figure 25 Z-Scan at power reference point (Right Hand Touch Cheek Open GSM 1900 Channel 512)

GSM 1900 Right Tilt High Open

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.44 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Tilt High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.211 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.2 V/m; Power Drift = -0.071 dB
Peak SAR (extrapolated) = 0.299 W/kg
SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.111 mW/g
Maximum value of SAR (measured) = 0.215 mW/g

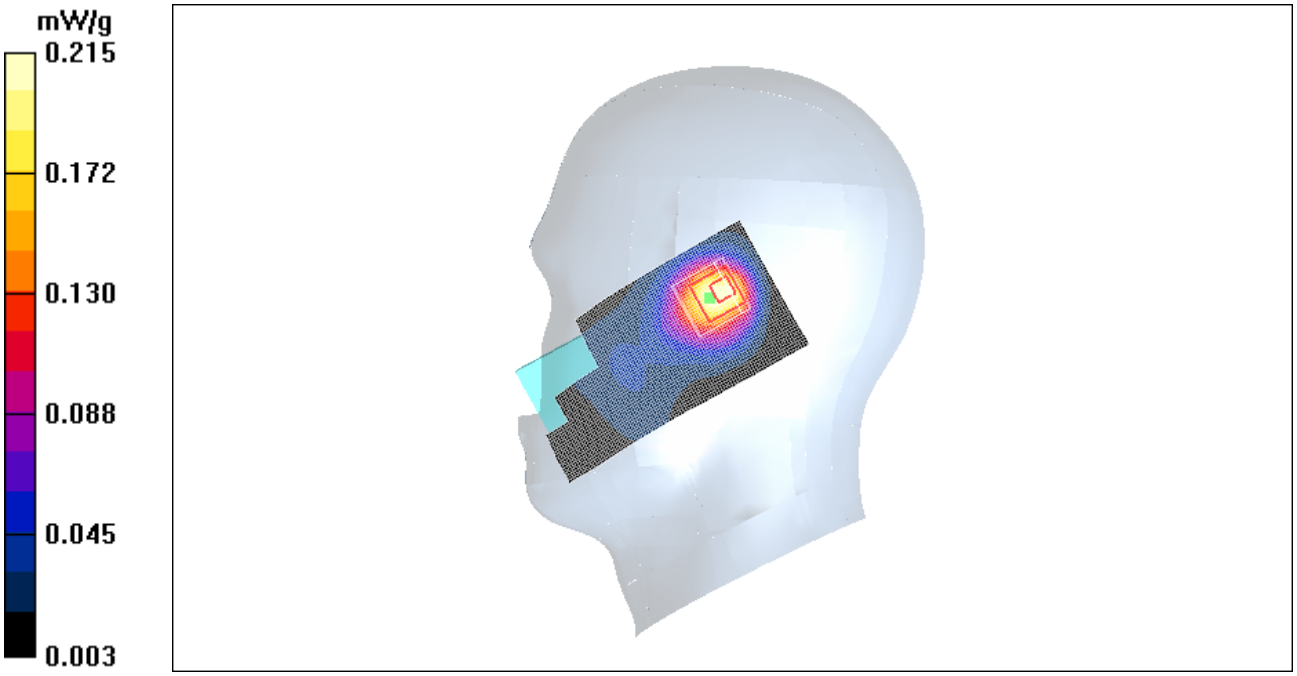


Figure 26 Right Hand Tilt 15 ° Open GSM 1900 Channel 810

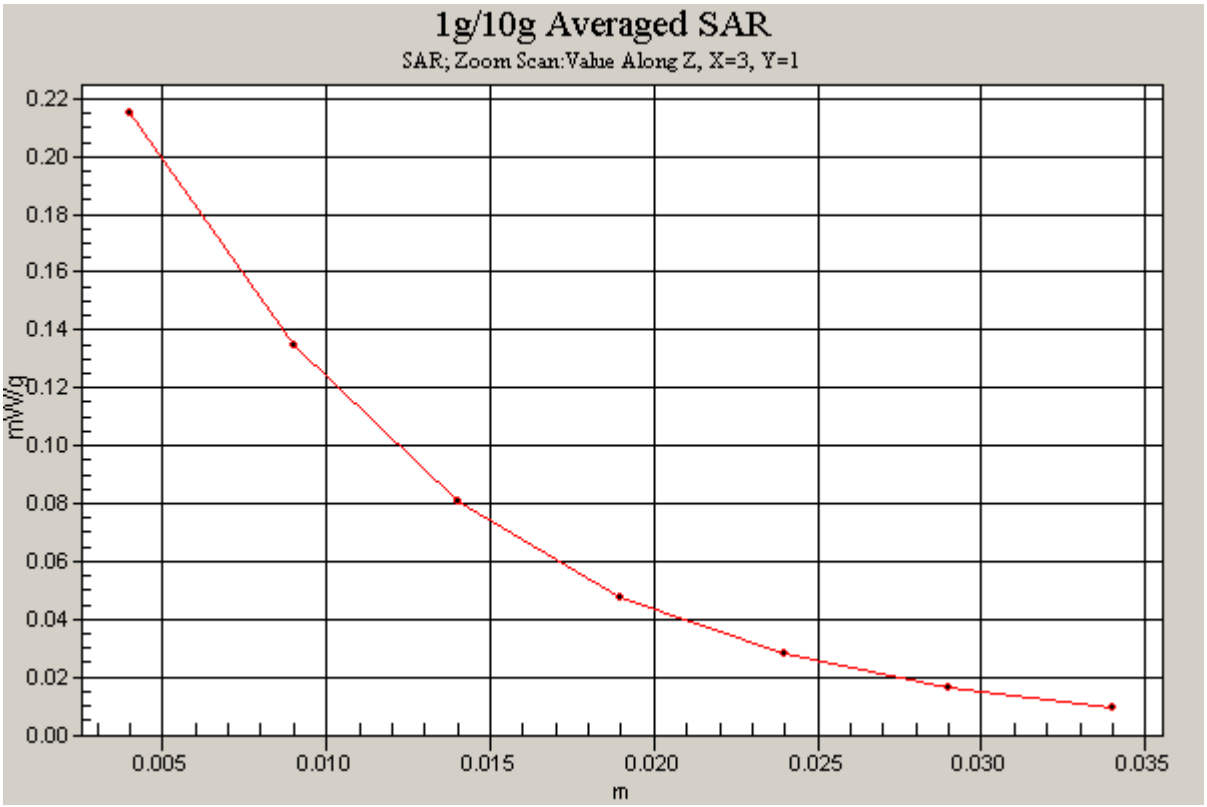


Figure 27 Z-Scan at power reference point (Right Hand Tilt 15 ° Open GSM 1900 Channel 810)

GSM 1900 Right Tilt Middle Open

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.41 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Tilt Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.234 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.2 V/m; Power Drift = -0.046 dB
Peak SAR (extrapolated) = 0.292 W/kg
SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.114 mW/g
Maximum value of SAR (measured) = 0.213 mW/g

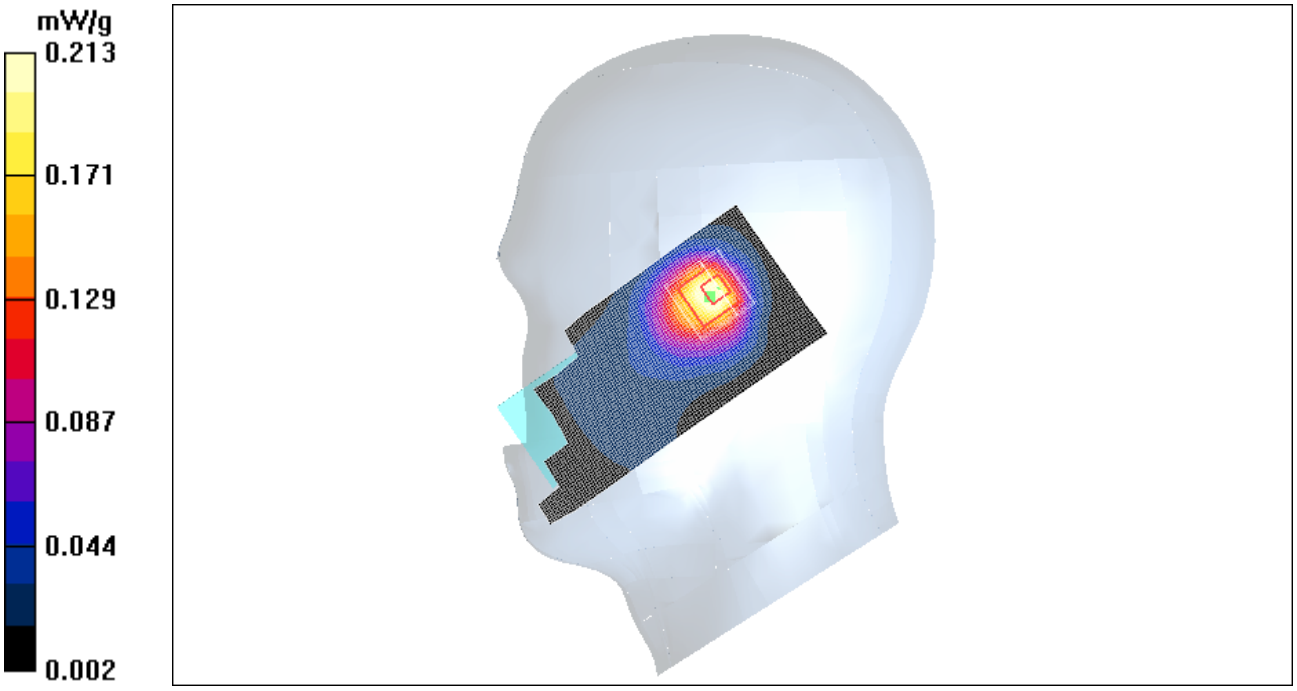


Figure 28 Right Hand Tilt 15 ° Open GSM 1900 Channel 661

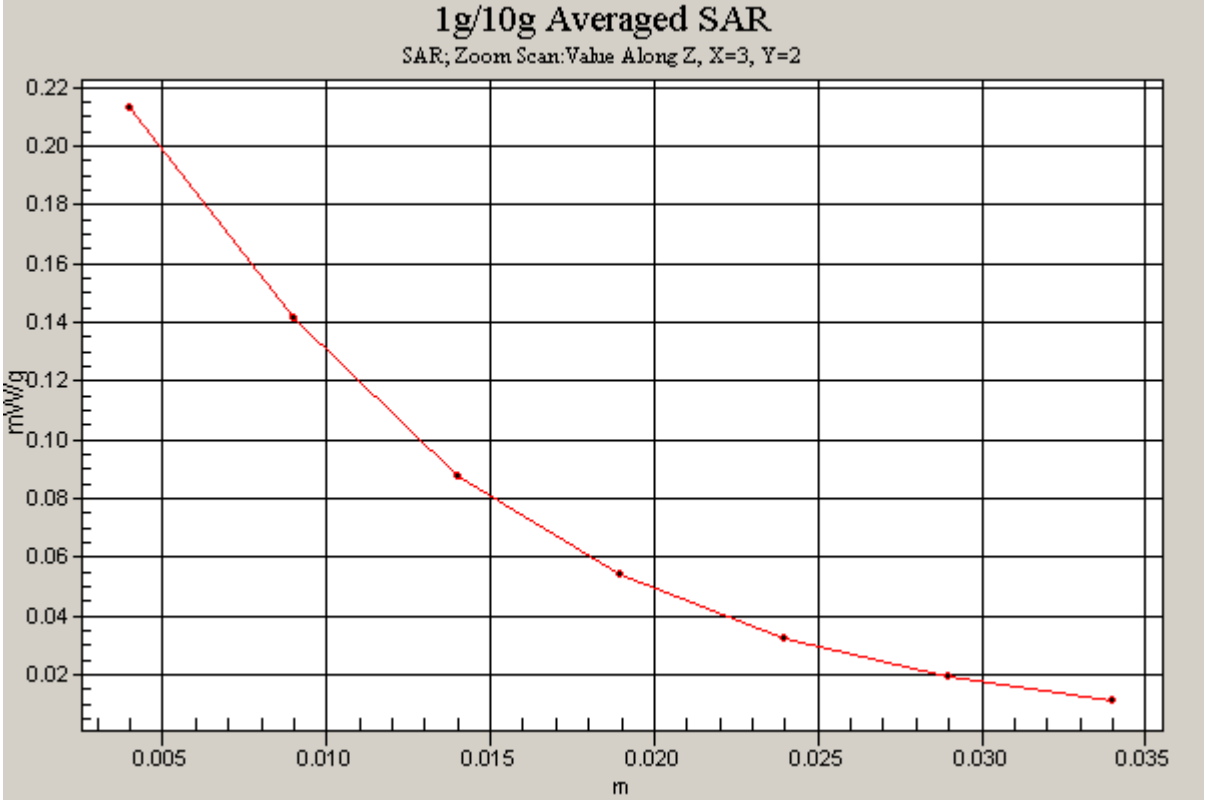


Figure 29 Z-Scan at power reference point (Right Hand Tilt 15 ° Open GSM 1900 Channel 661)

GSM 1900 Right Tilt Low Open

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.37 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Tilt Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.235 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.3 V/m; Power Drift = -0.011 dB
Peak SAR (extrapolated) = 0.280 W/kg
SAR(1 g) = 0.190 mW/g; SAR(10 g) = 0.114 mW/g
Maximum value of SAR (measured) = 0.210 mW/g

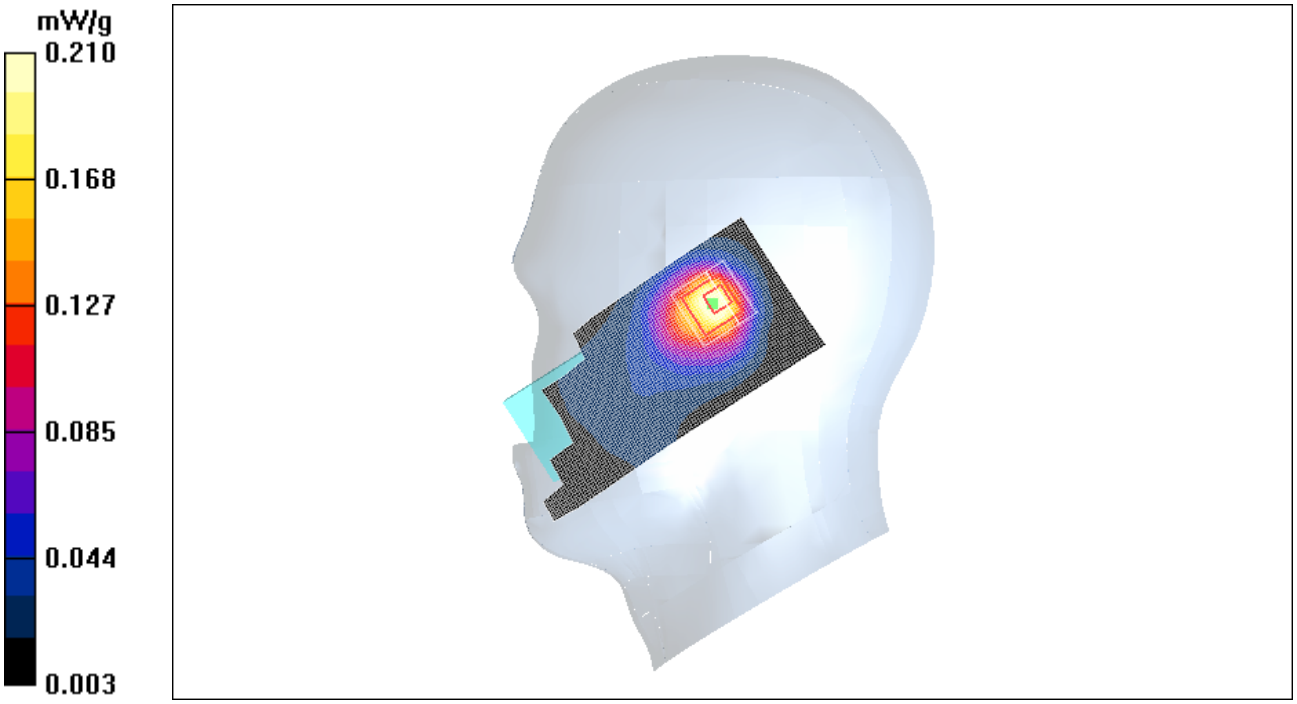


Figure 30 Right Hand Tilt 15 ° Open GSM 1900 Channel 512

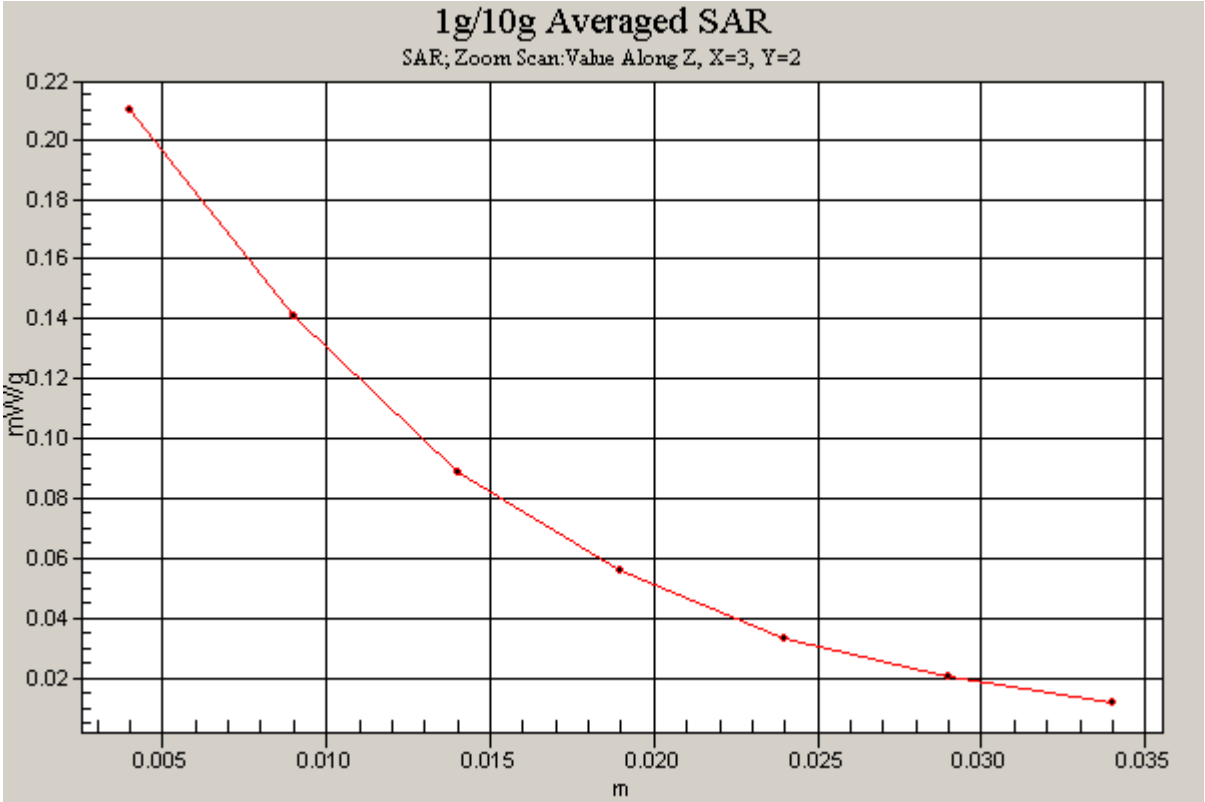


Figure 31 Z-Scan at power reference point (Right Hand Tilt 15 ° Open GSM 1900 Channel 512)

GSM 1900 Towards Ground High Open

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.331 mW/g

Towards Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.24 V/m; Power Drift = -0.061 dB
Peak SAR (extrapolated) = 0.484 W/kg
SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.193 mW/g
Maximum value of SAR (measured) = 0.348 mW/g

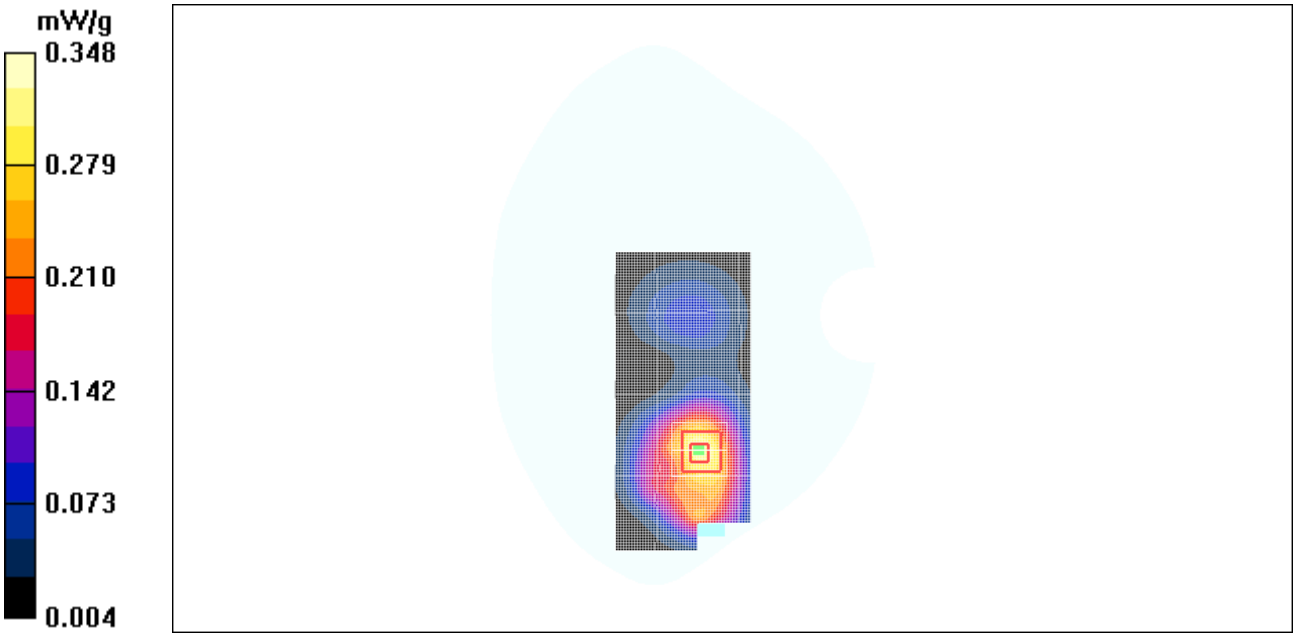


Figure 32 Body, Towards Ground, Open GSM 1900 Channel 810

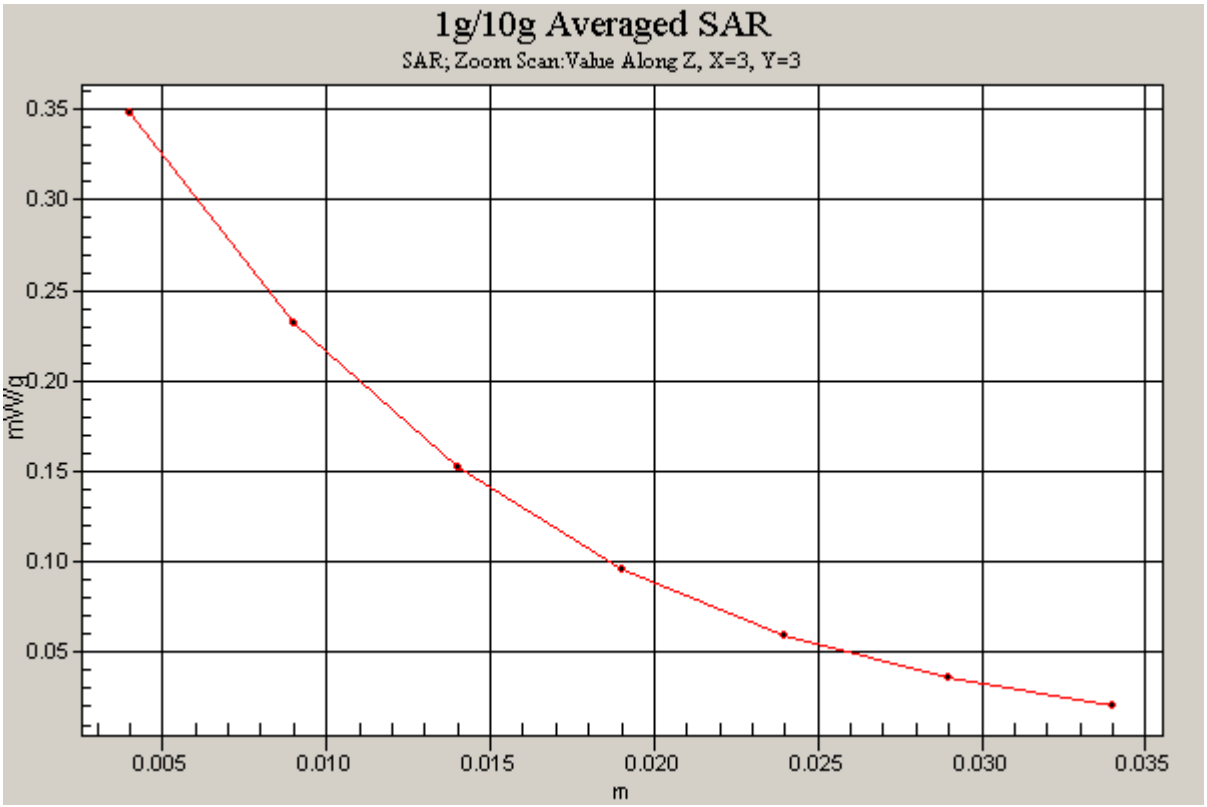


Figure 33 Z-Scan at power reference point (Body, Towards Ground, Open GSM 1900 Channel 810)

GSM 1900 Towards Ground Middle Open

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.309 mW/g

Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.72 V/m; Power Drift = -0.048 dB
Peak SAR (extrapolated) = 0.431 W/kg
SAR(1 g) = 0.290 mW/g; SAR(10 g) = 0.177 mW/g
Maximum value of SAR (measured) = 0.315 mW/g

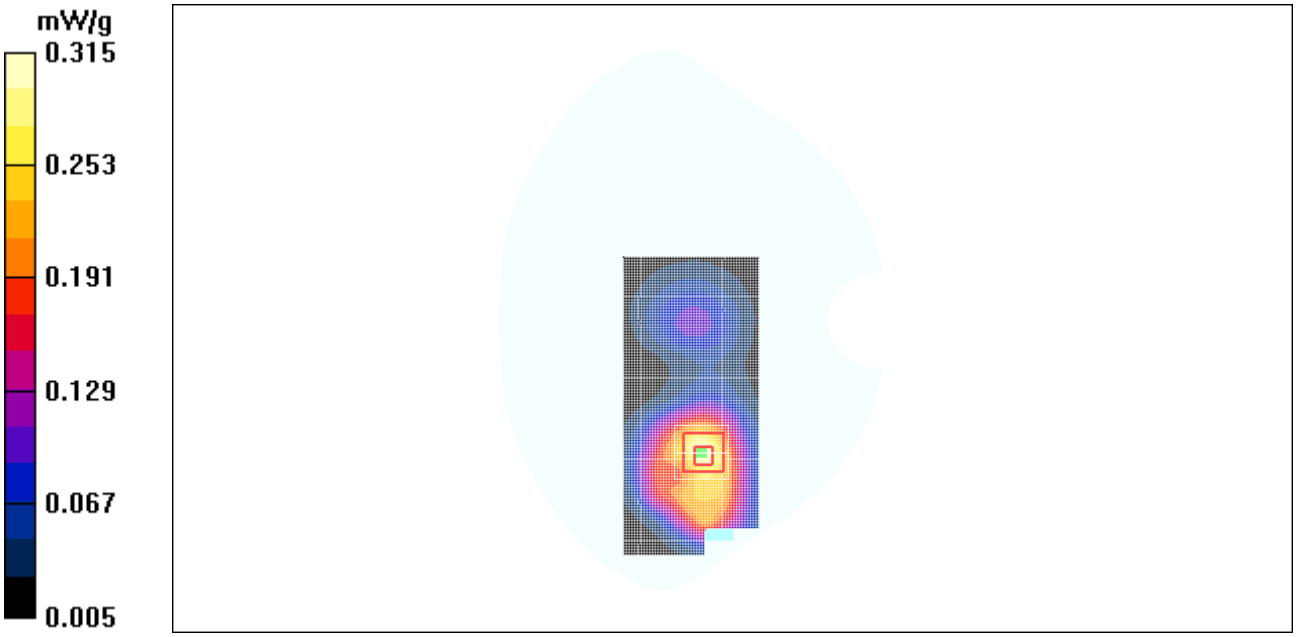


Figure 34 Body, Towards Ground, Open GSM 1900 Channel 661

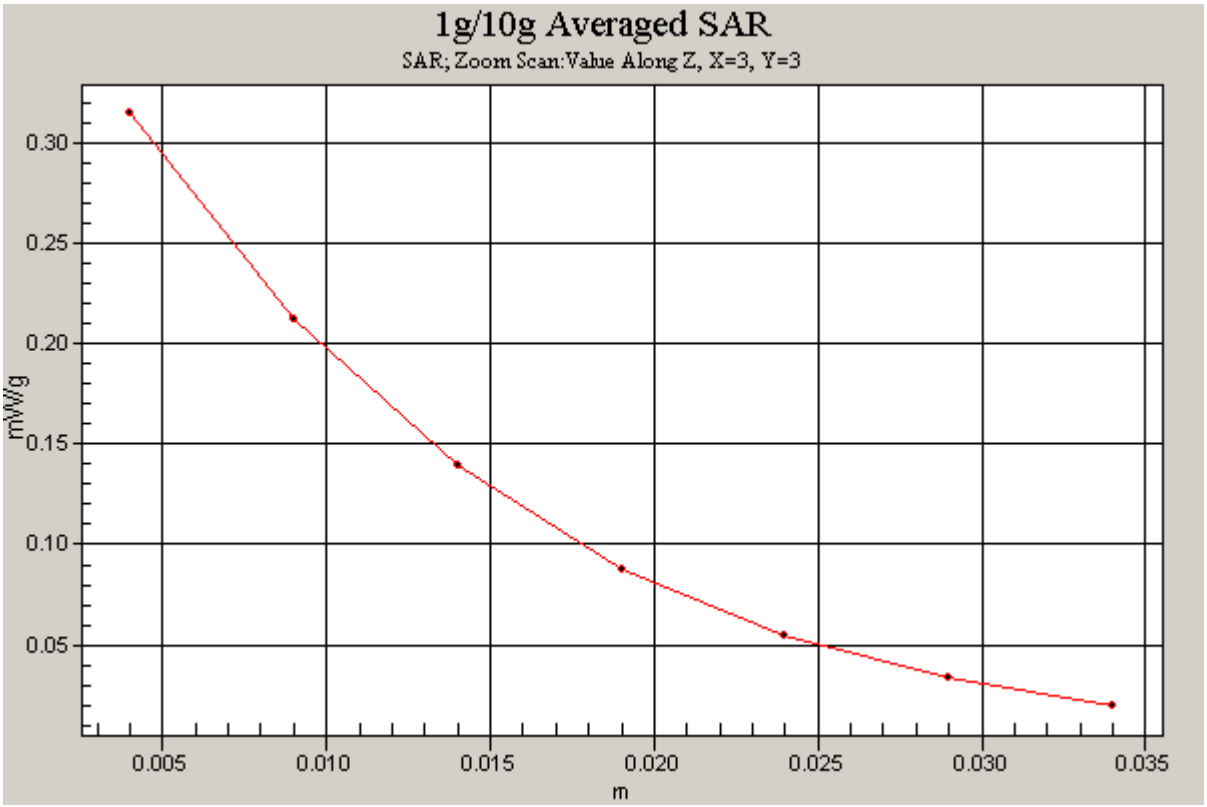


Figure 35 Z-Scan at power reference point (Body, Towards Ground, Open GSM 1900 Channel 661)

GSM 1900 Towards Ground Low Open

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.47 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.315 mW/g

Towards Ground Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.02 V/m; Power Drift = -0.108 dB
Peak SAR (extrapolated) = 0.427 W/kg
SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.181 mW/g
Maximum value of SAR (measured) = 0.318 mW/g

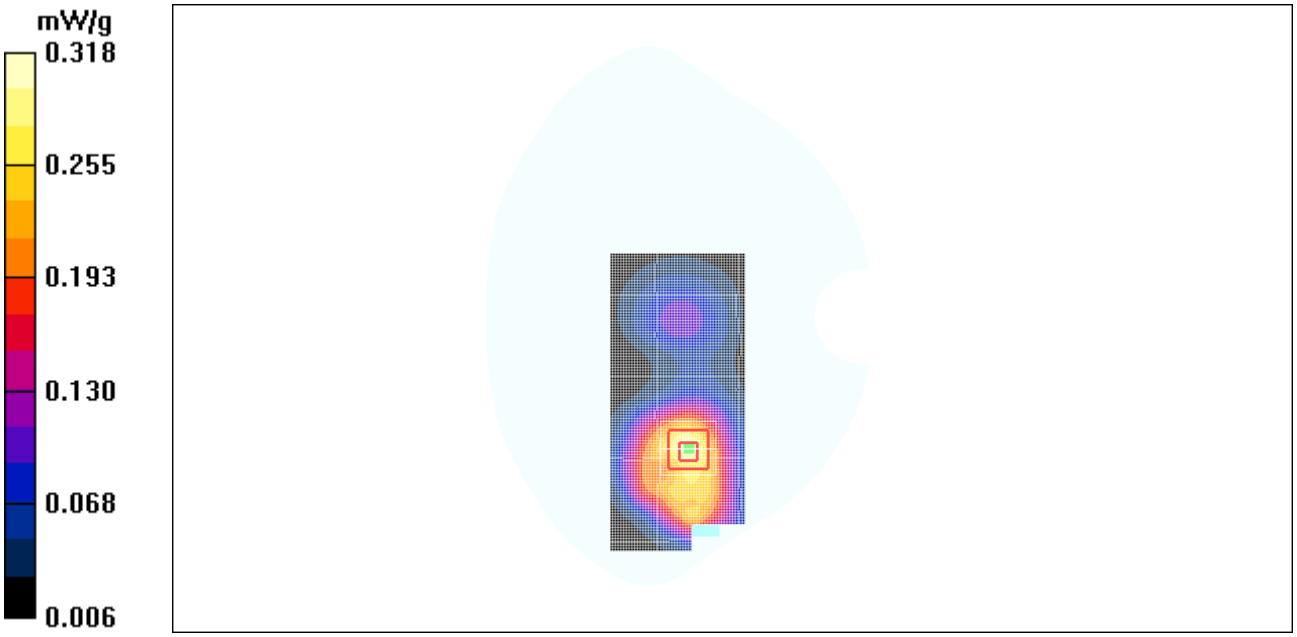


Figure 36 Body, Towards Ground, Open GSM 1900 Channel 512

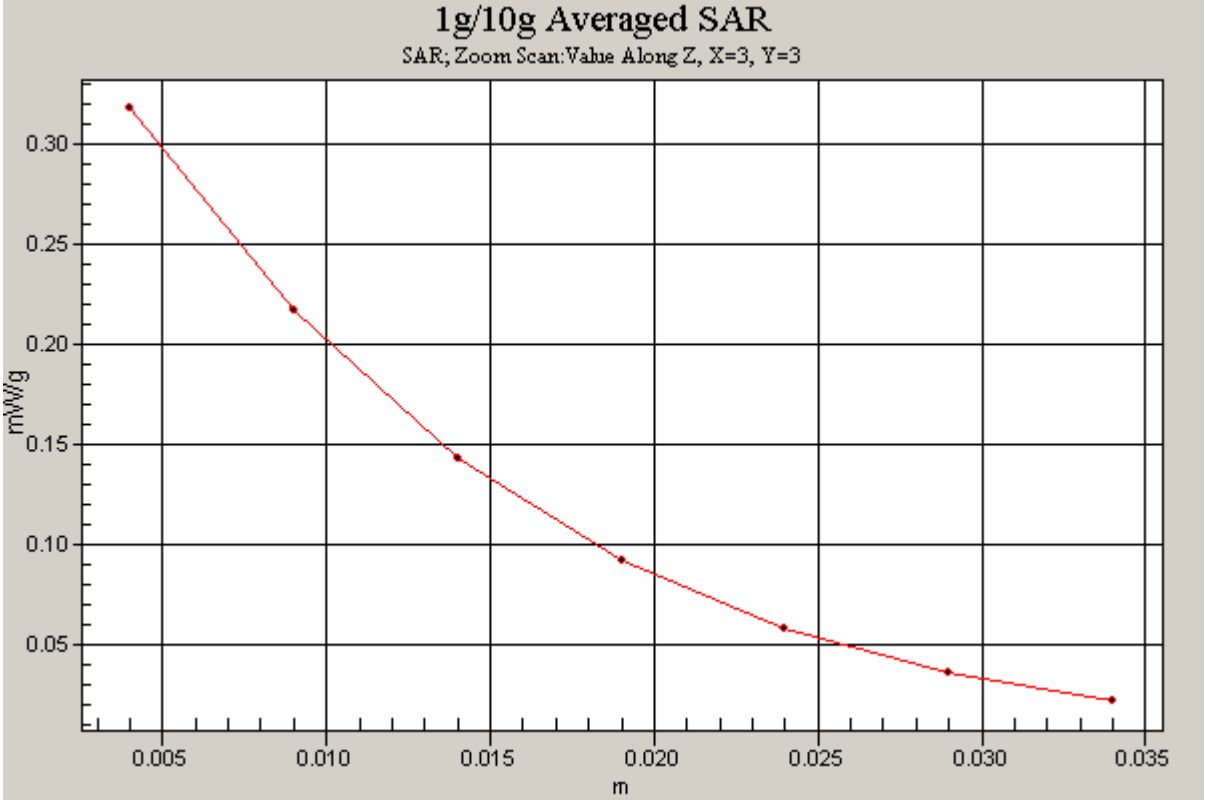


Figure 37 Z-Scan at power reference point (Body, Towards Ground, Open GSM 1900 Channel 512)

GSM 1900 Towards Phantom High Open

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Phantom High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.175 mW/g

Towards Phantom High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.32 V/m; Power Drift = 0.182 dB
Peak SAR (extrapolated) = 0.261 W/kg
SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.102 mW/g
Maximum value of SAR (measured) = 0.177 mW/g

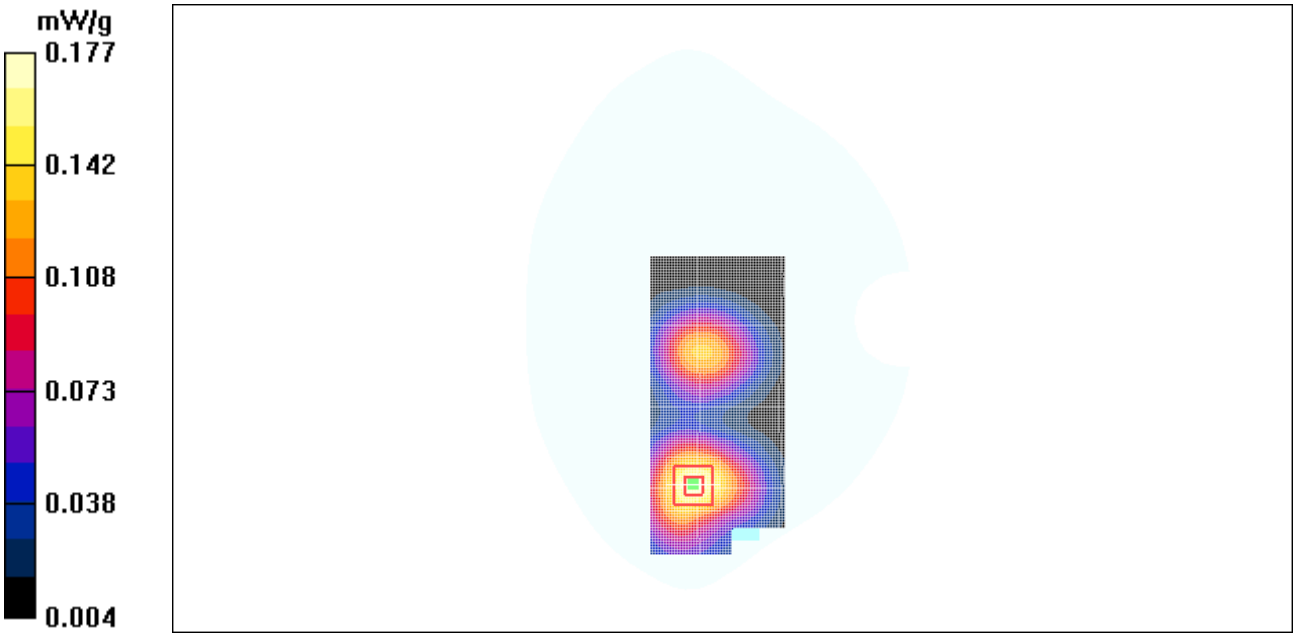


Figure 38 Body, Towards Phantom, Open GSM 1900 Channel 810

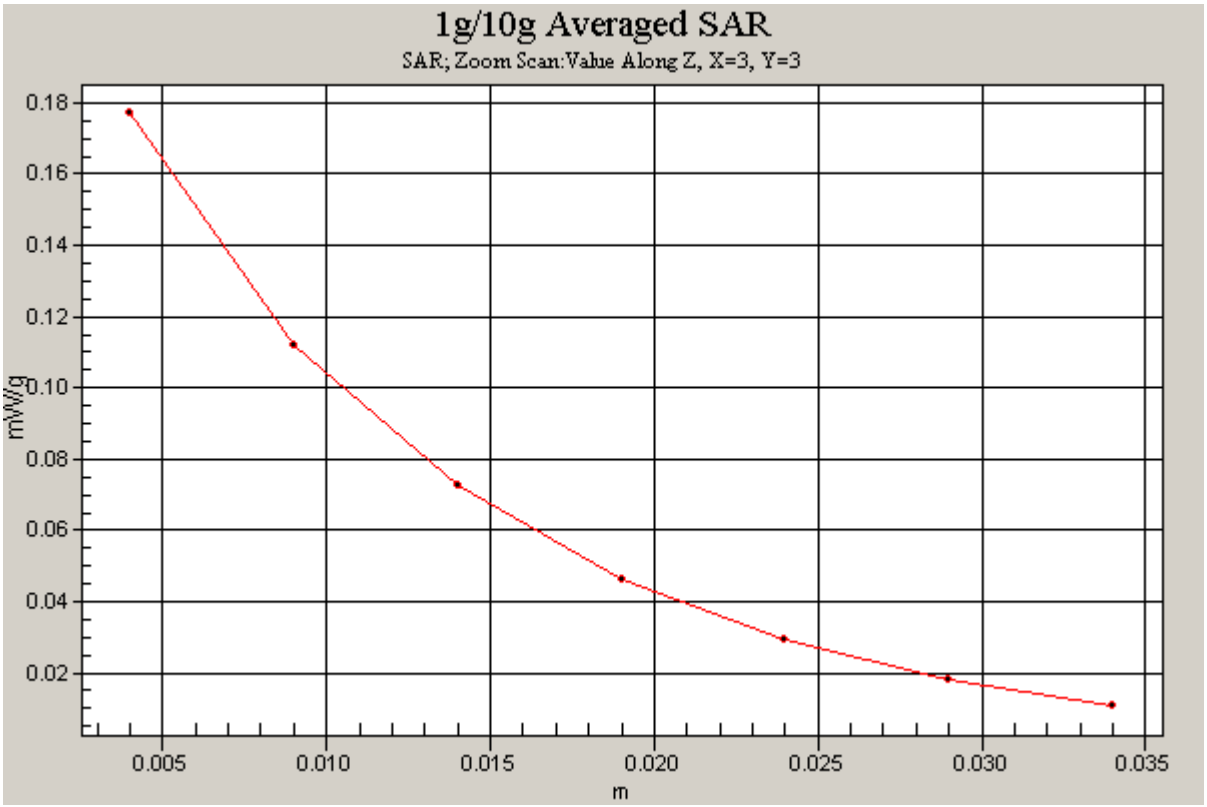


Figure 39 Z-Scan at power reference point (Body, Towards Phantom, Open GSM 1900 Channel 810)

GSM 1900 Towards Phantom Middle Open

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Phantom Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.143 mW/g

Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.79 V/m; Power Drift = 0.038 dB
Peak SAR (extrapolated) = 0.219 W/kg
SAR(1 g) = 0.140 mW/g; SAR(10 g) = 0.087 mW/g
Maximum value of SAR (measured) = 0.152 mW/g

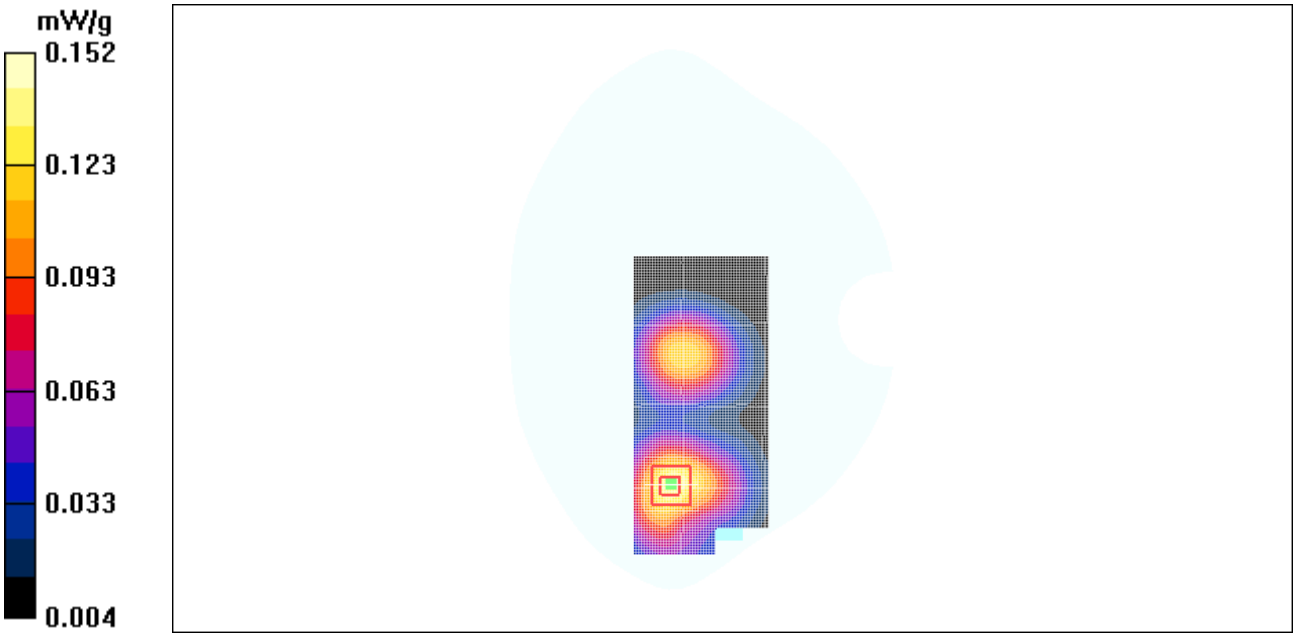


Figure 40 Body, Towards Phantom, Open GSM 1900 Channel 661

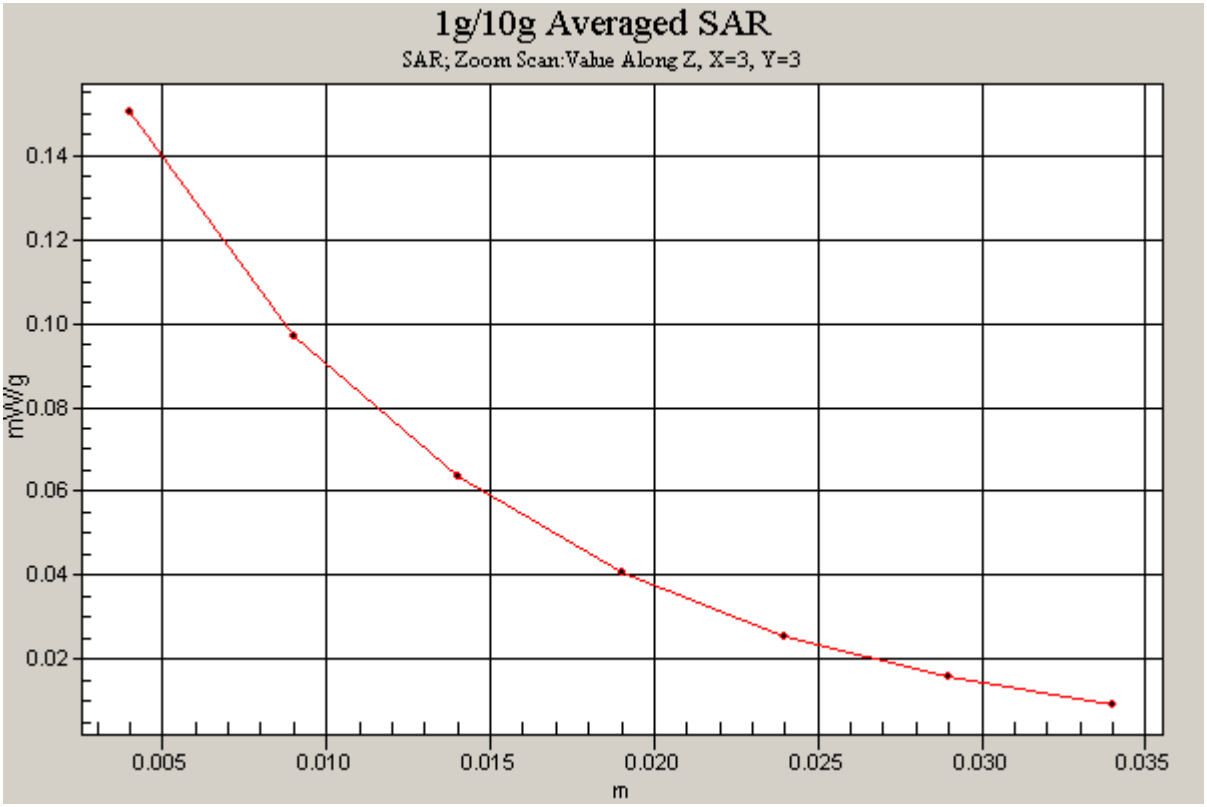


Figure 41 Z-Scan at power reference point (Body, Towards Phantom, Open GSM 1900 Channel 661)

GSM 1900 Towards Phantom Low Open

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.47 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Phantom Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.150 mW/g

Towards Phantom Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.99 V/m; Power Drift = -0.062 dB
Peak SAR (extrapolated) = 0.211 W/kg
SAR(1 g) = 0.137 mW/g; SAR(10 g) = 0.087 mW/g
Maximum value of SAR (measured) = 0.147 mW/g

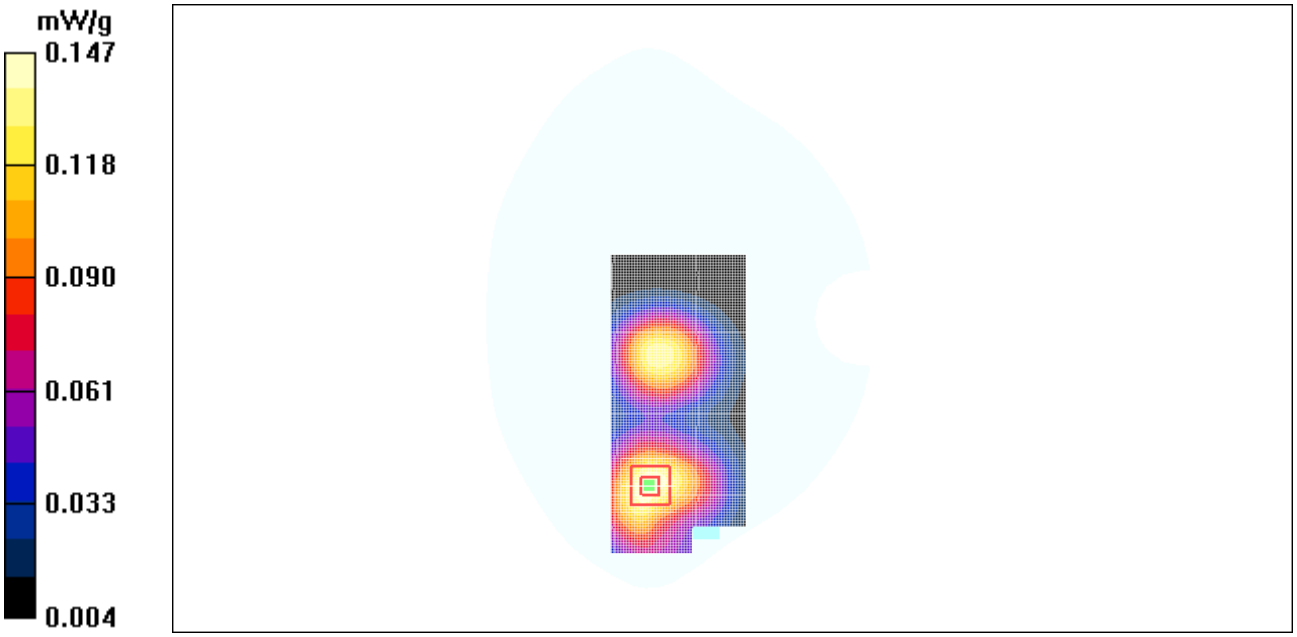


Figure 42 Body, Towards Phantom, Open GSM 1900 Channel 512

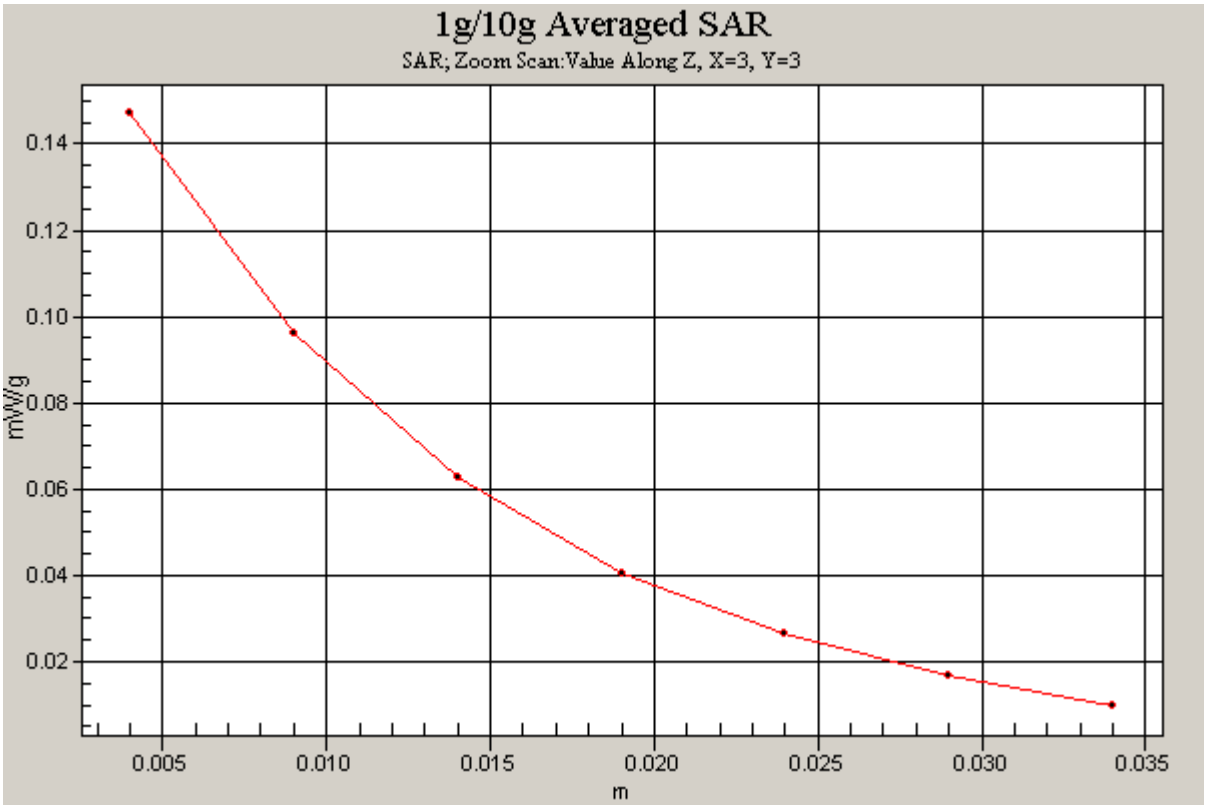


Figure 43 Z-Scan at power reference point (Body with Earphone, Towards Ground, Open GSM 1900, Channel 512)

GSM 1900 Earphone Towards Ground High Open

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.254 mW/g

Towards Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.85 V/m; Power Drift = 0.085 dB
Peak SAR (extrapolated) = 0.361 W/kg
SAR(1 g) = 0.239 mW/g; SAR(10 g) = 0.143 mW/g
Maximum value of SAR (measured) = 0.258 mW/g

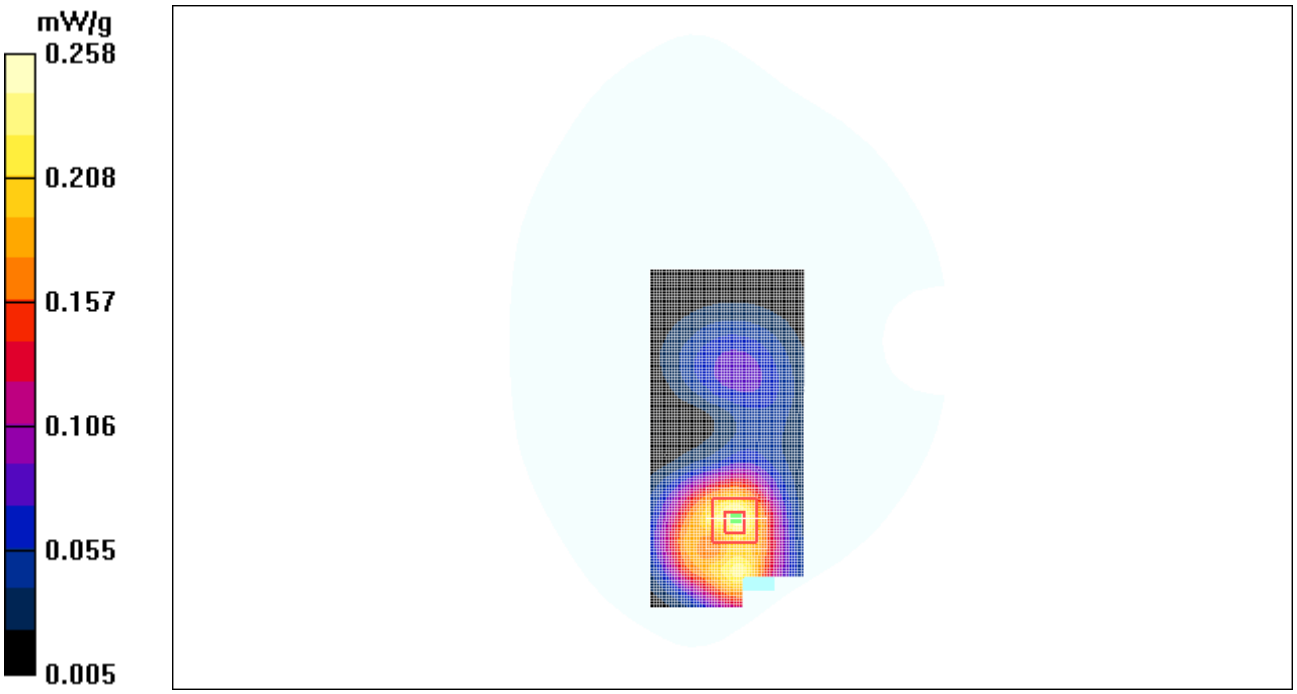


Figure 44 Body with Earphone, Towards Ground, Open GSM 1900, Channel 810

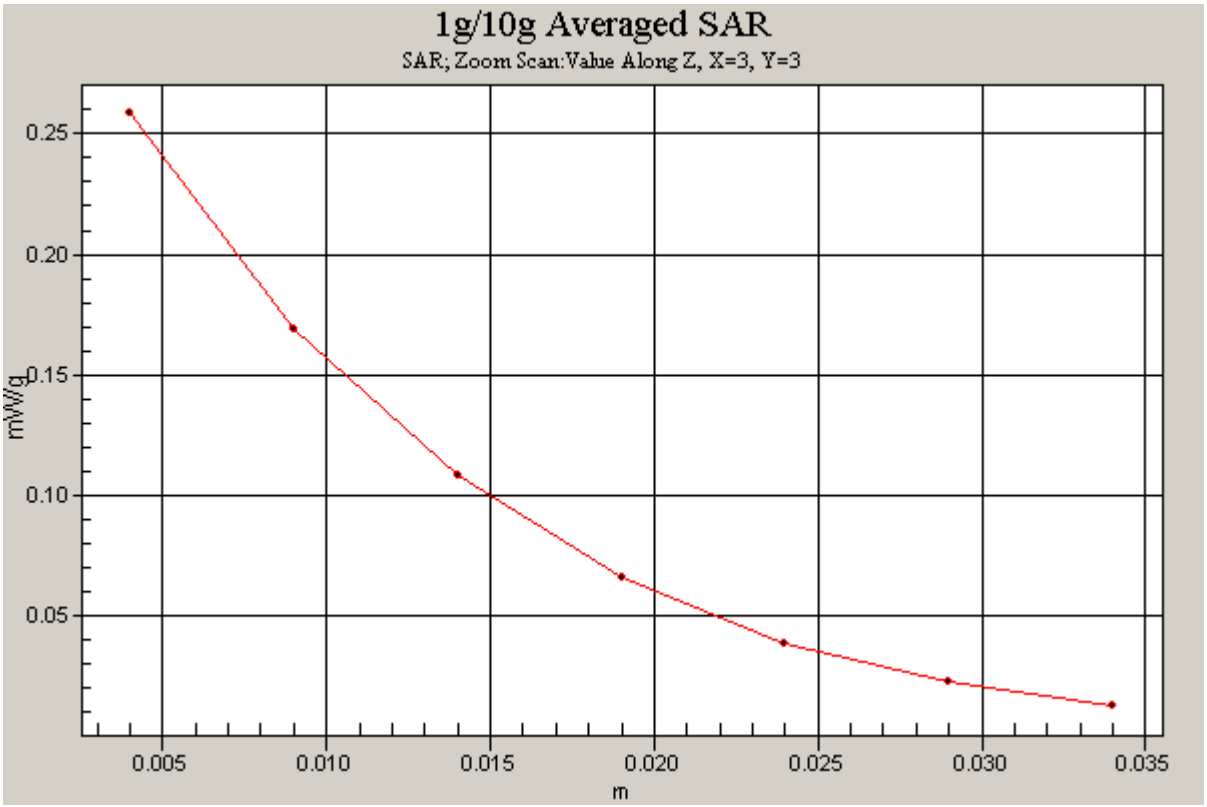


Figure 45 Z-Scan at power reference point (Body with Earphone, Towards Ground, Open GSM 1900, Channel 810)

GSM 1900 Bluetooth Earphone Towards Ground High Open

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.279 mW/g

Towards Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.56 V/m; Power Drift = 0.100 dB
Peak SAR (extrapolated) = 0.390 W/kg
SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.156 mW/g
Maximum value of SAR (measured) = 0.281 mW/g

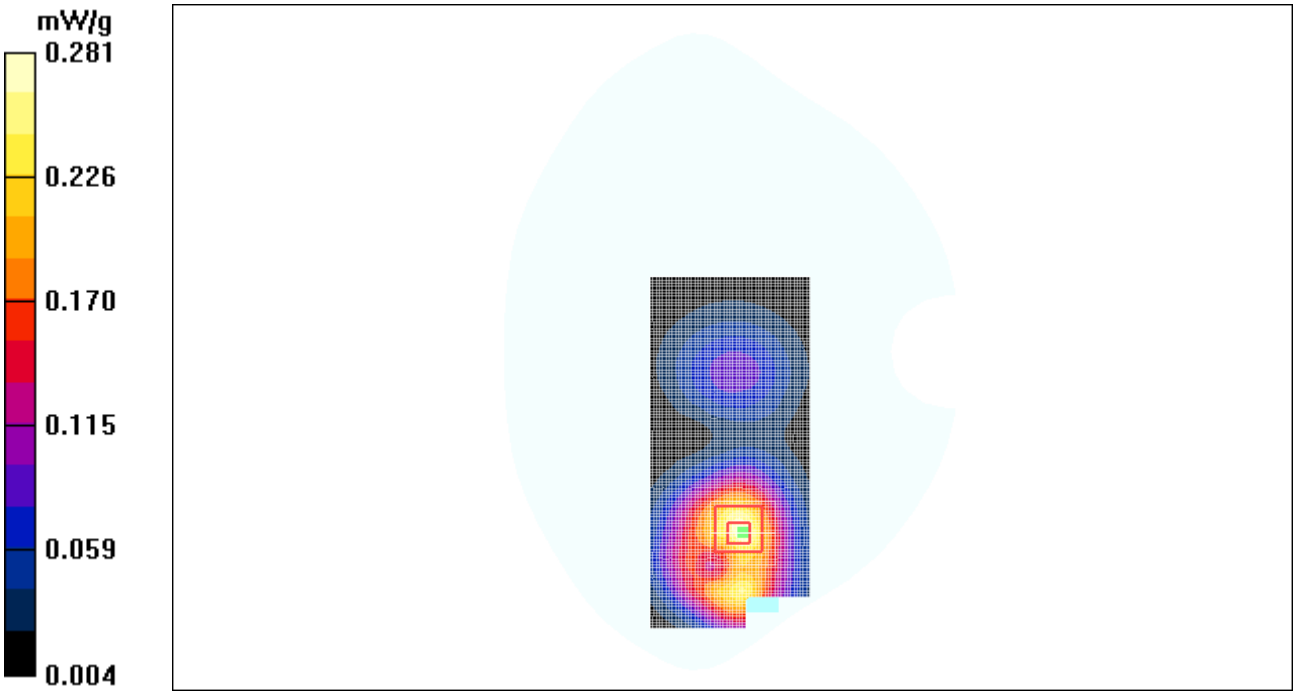


Figure 46 Body with Bluetooth earphone, Towards Ground, Open GSM 1900, Channel 810

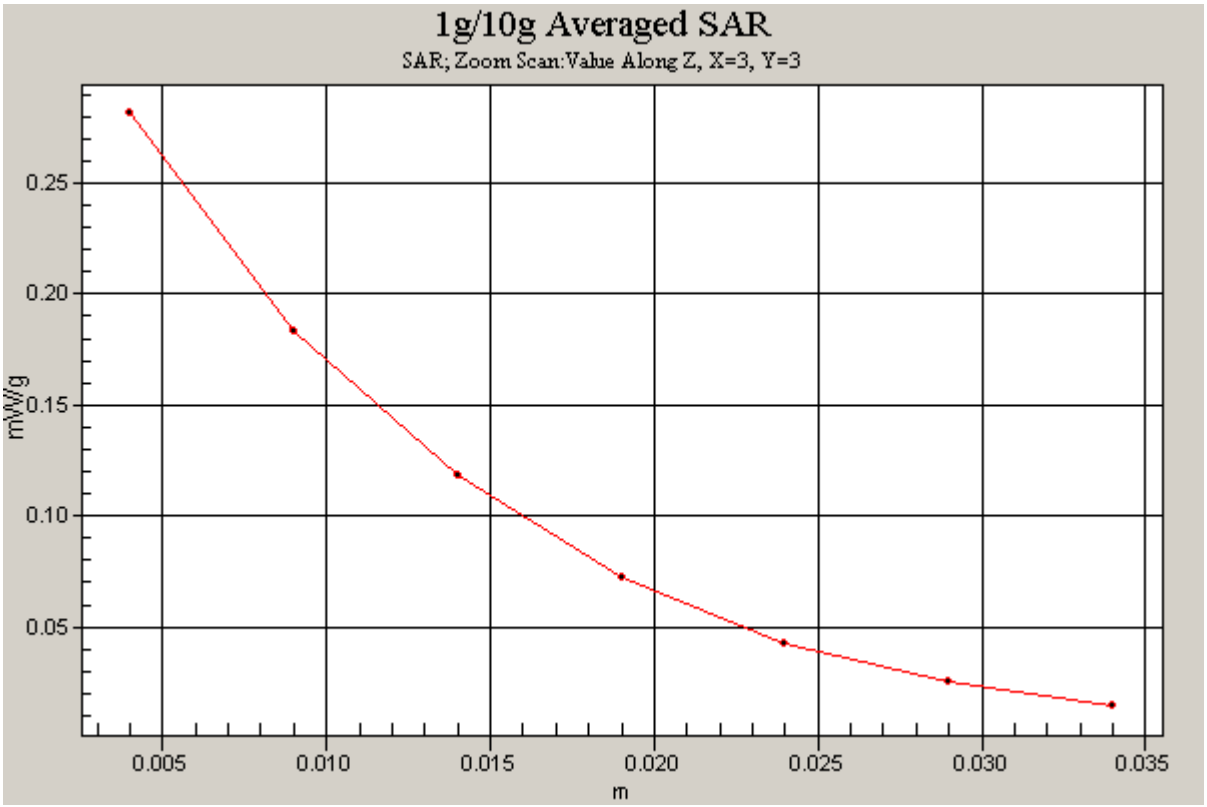


Figure 47 Z-Scan at power reference point (Body with Bluetooth earphone, Towards Ground, Open GSM 1900, Channel 810

GSM 1900 GPRS Towards Ground High Open

Communication System: GSM 1900+GPRS(2Up); Frequency: 1909.8 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.667 mW/g

Towards Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.2 V/m; Power Drift = -0.044 dB
Peak SAR (extrapolated) = 0.913 W/kg
SAR(1 g) = 0.601 mW/g; SAR(10 g) = 0.358 mW/g
Maximum value of SAR (measured) = 0.654 mW/g

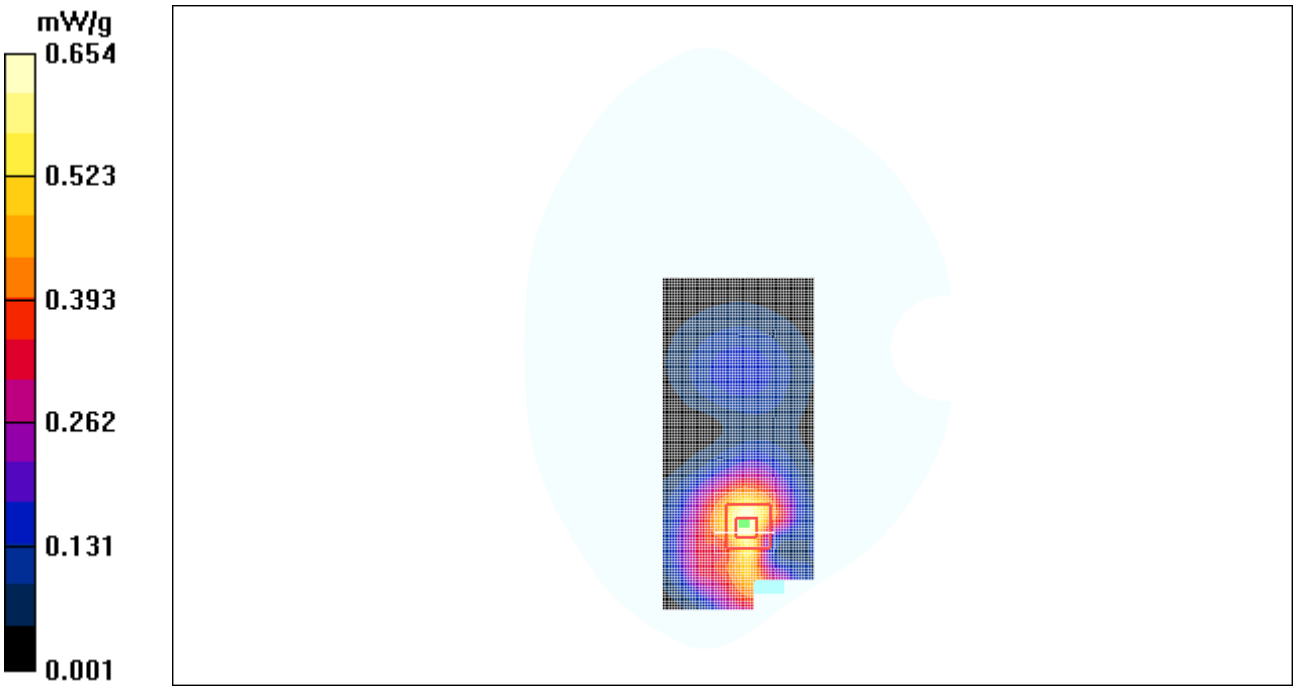


Figure 48 Body, Towards Ground, Open GSM 1900 GPRS, Channel 810

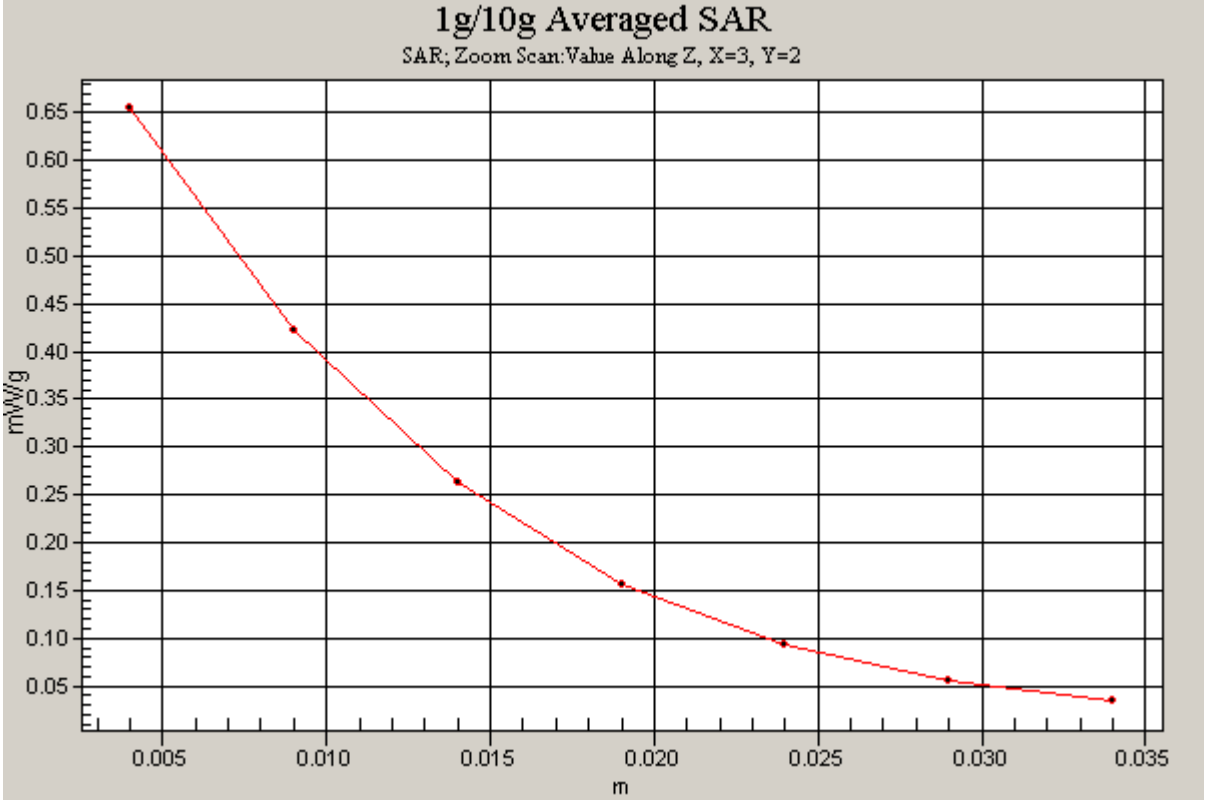


Figure 49 Z-Scan at power reference point (Body, Towards Ground, Open GSM 1900 GPRS, Channel 810)

GSM 1900 GPRS Towards Ground Middle Open

Communication System: GSM 1900+GPRS(2Up); Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.590 mW/g

Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.4 V/m; Power Drift = -0.024 dB
Peak SAR (extrapolated) = 0.814 W/kg
SAR(1 g) = 0.556 mW/g; SAR(10 g) = 0.341 mW/g
Maximum value of SAR (measured) = 0.602 mW/g

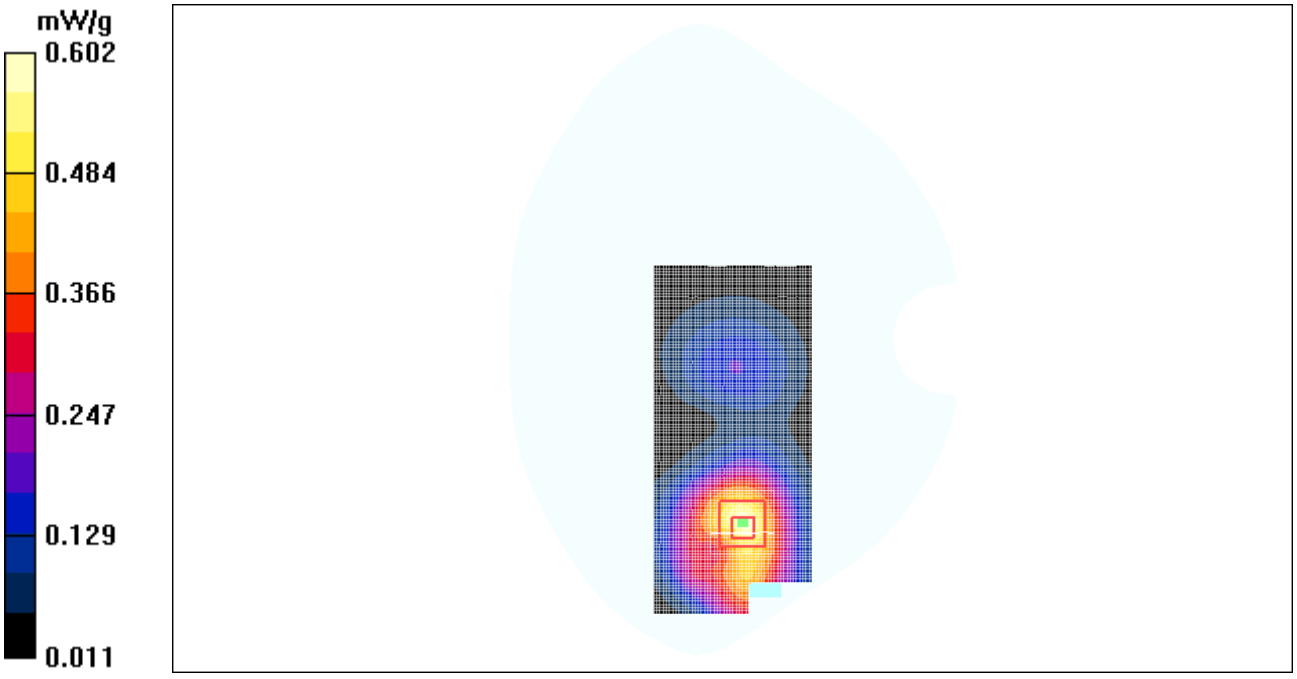


Figure 50 Body, Towards Ground, Open GSM 1900 GPRS Channel 661

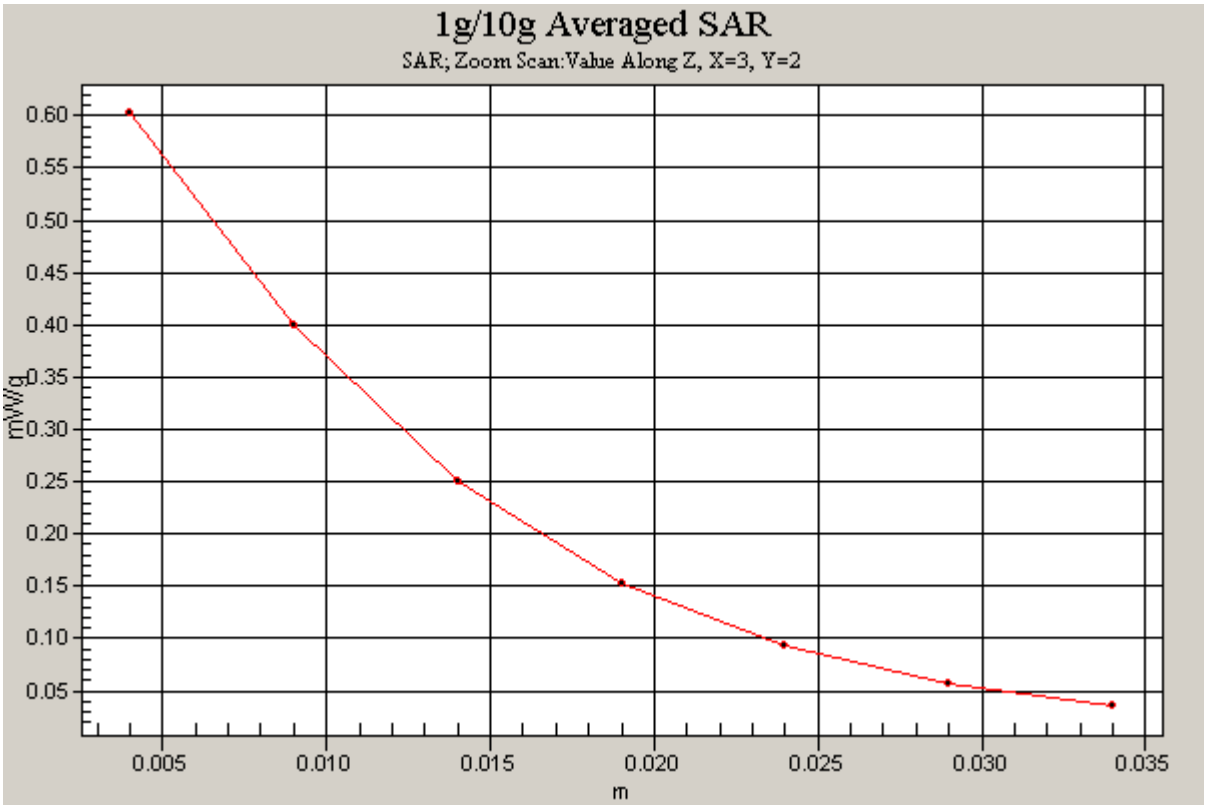


Figure 51 Z-Scan at power reference point (Body, Towards Ground, Open GSM 1900 GPRS Channel 661)

GSM 1900 GPRS Towards Ground Low Open

Communication System: GSM 1900+GPRS(2Up); Frequency: 1850.2 MHz;Duty Cycle: 1:4
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.47 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.613 mW/g

Towards Ground Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.8 V/m; Power Drift = -0.075 dB
Peak SAR (extrapolated) = 0.840 W/kg
SAR(1 g) = 0.576 mW/g; SAR(10 g) = 0.355 mW/g
Maximum value of SAR (measured) = 0.626 mW/g

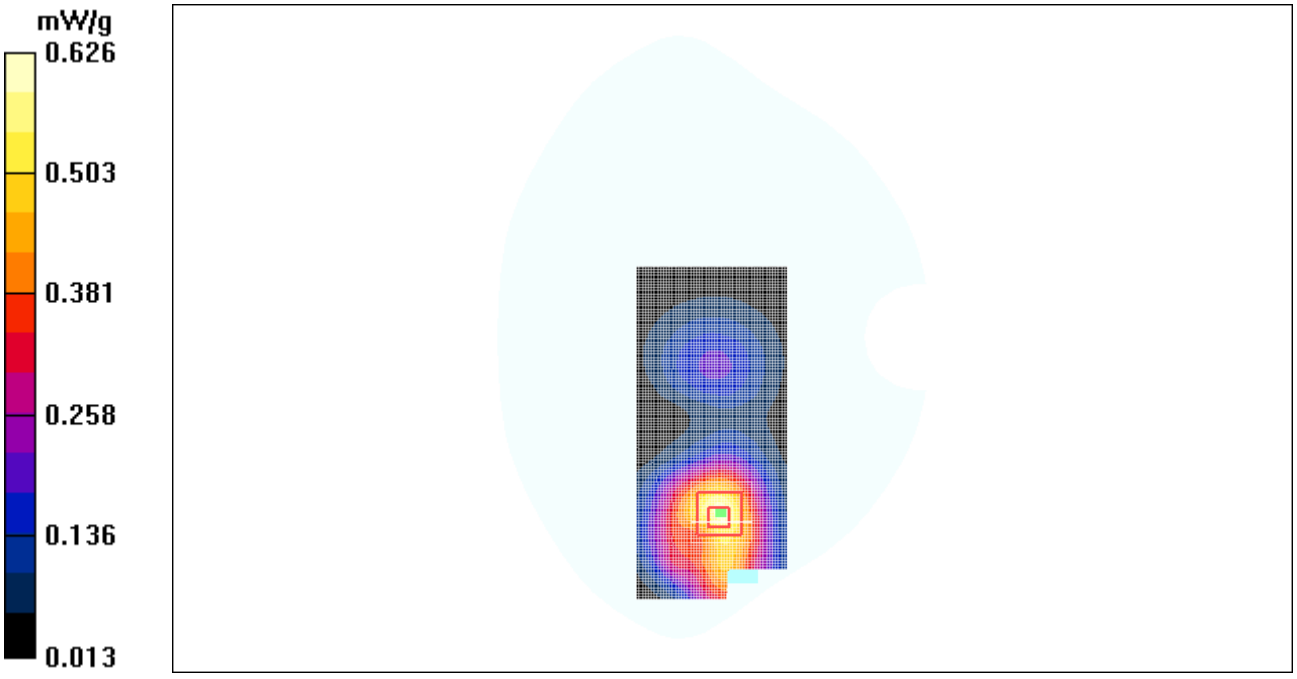


Figure 52 Body, Towards Ground, Open GSM 1900 GPRS Channel 512

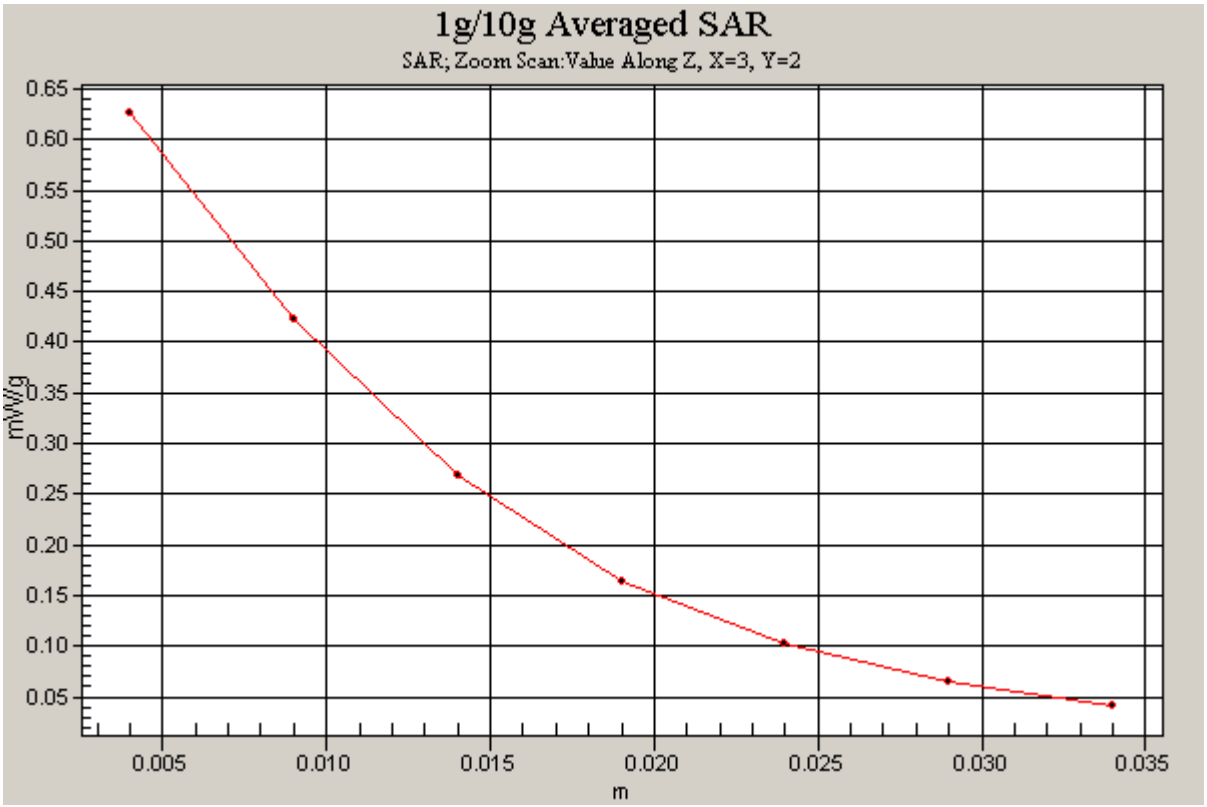


Figure 53 Z-Scan at power reference point (Body, Towards Ground, Open GSM 1900 GPRS Channel 512)

GSM 1900 GPRS Towards Phantom High Open

Communication System: GSM 1900+GPRS(2Up); Frequency: 1909.8 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Phantom High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.330 mW/g

Towards Phantom High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.4 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.309 mW/g; SAR(10 g) = 0.189 mW/g
Maximum value of SAR (measured) = 0.323 mW/g

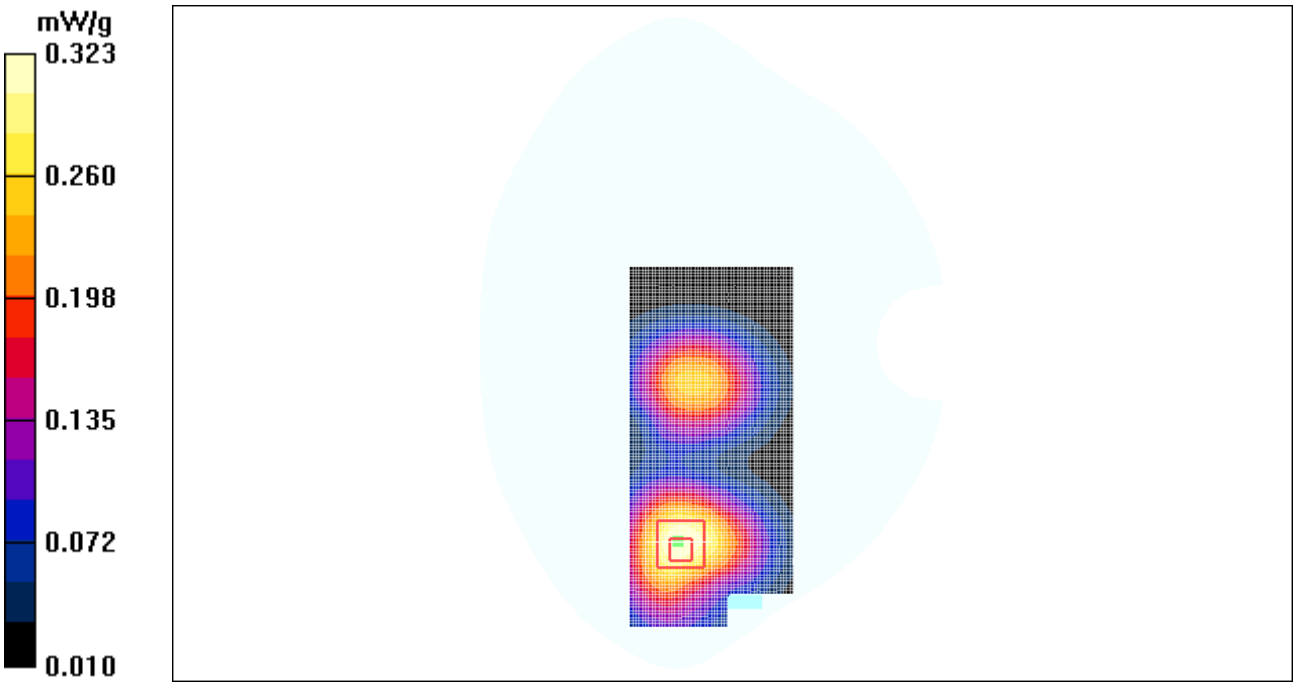


Figure 54 Body, Towards Phantom, Open GSM 1900 GPRS, Channel 810

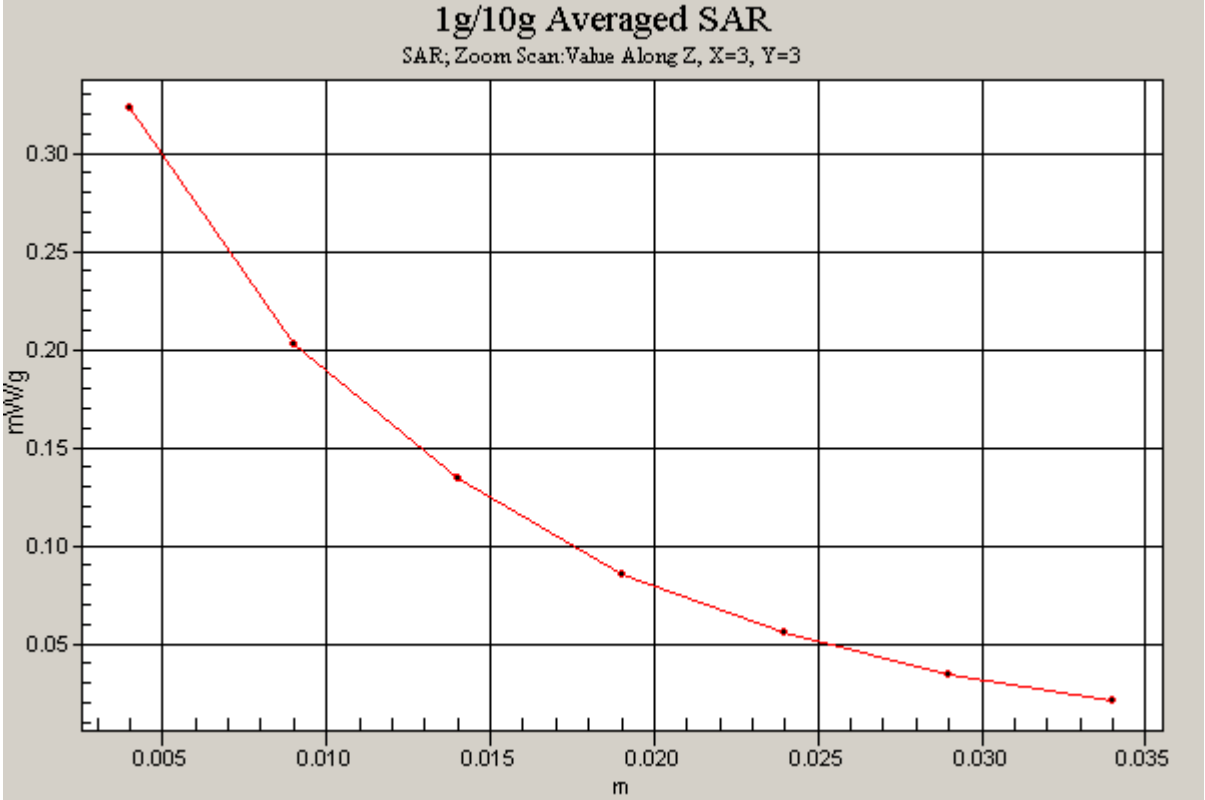


Figure 55 Z-Scan at power reference point (Body, Towards Phantom, Open GSM 1900 GPRS, Channel 810)

GSM 1900 GPRS Towards Phantom Middle Open

Communication System: GSM 1900+GPRS(2Up); Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Phantom Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.302 mW/g

Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.1 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 0.429 W/kg
SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.173 mW/g
Maximum value of SAR (measured) = 0.299 mW/g

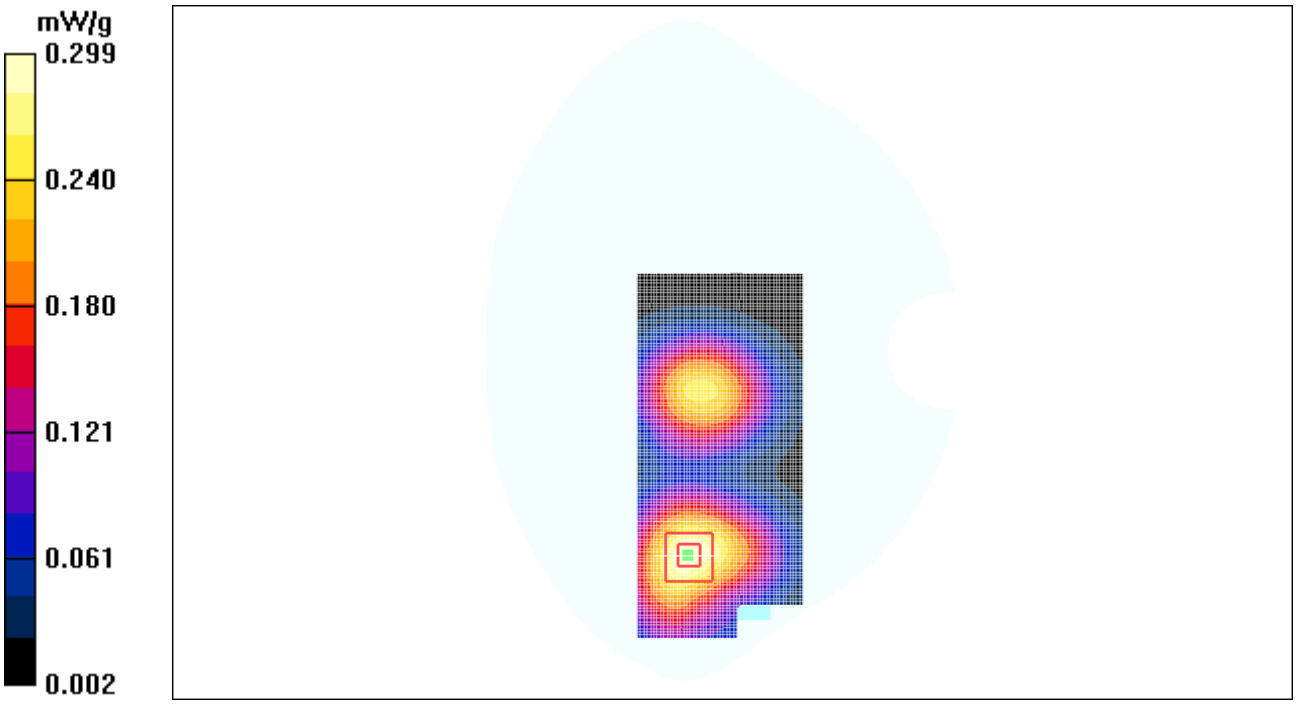


Figure 56 Body, Towards Phantom, Open GSM 1900 GPRS Channel 661

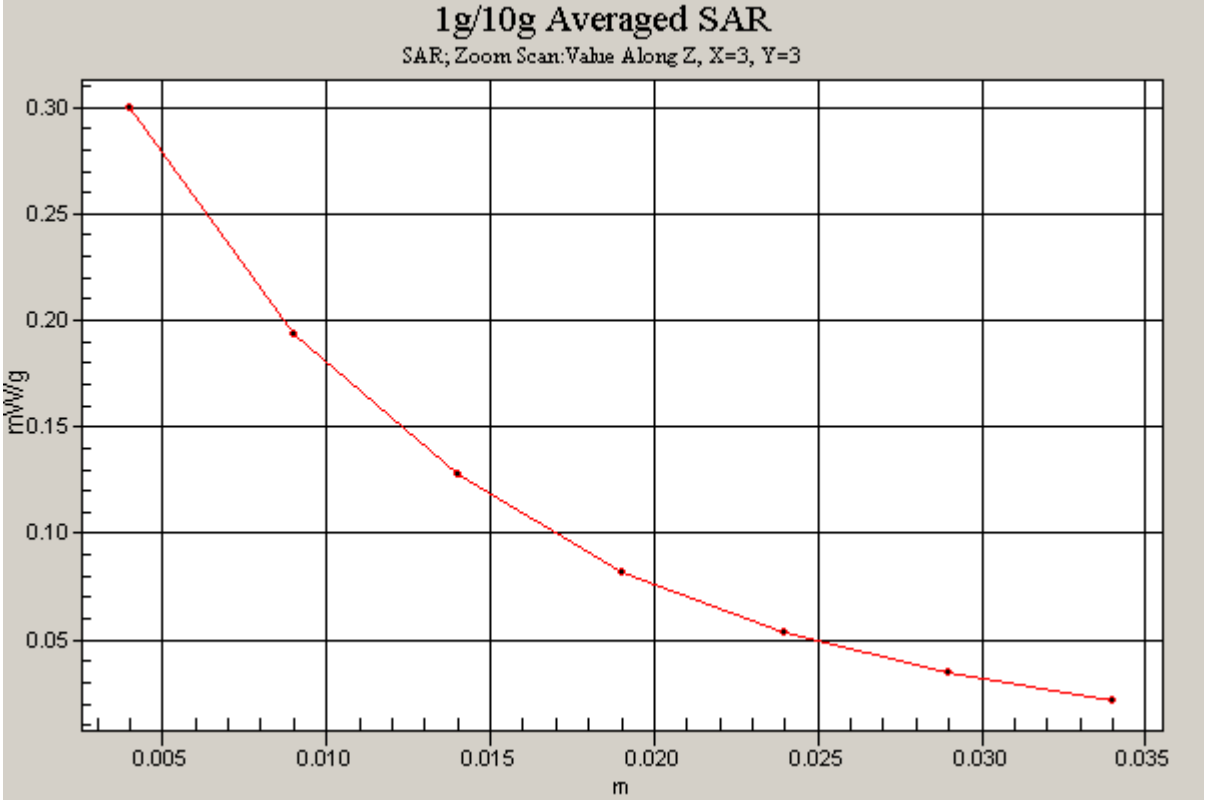


Figure 57 Z-Scan at power reference point (Body, Towards Phantom, Open GSM 1900 GPRS Channel 661)

GSM 1900 GPRS Towards Phantom Low Open

Communication System: GSM 1900+GPRS(2Up); Frequency: 1850.2 MHz;Duty Cycle: 1:4
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.47 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Phantom Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.306 mW/g

Towards Phantom Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.3 V/m; Power Drift = 0.034 dB
Peak SAR (extrapolated) = 0.431 W/kg
SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.178 mW/g
Maximum value of SAR (measured) = 0.299 mW/g

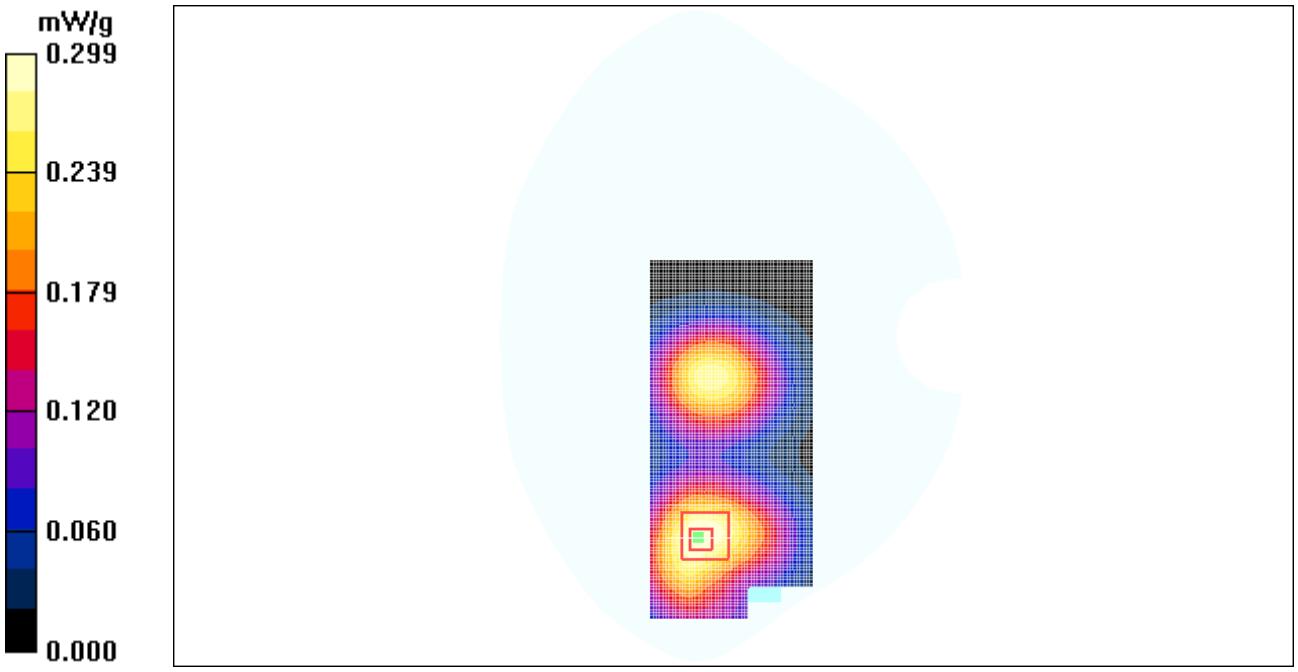


Figure 58 Body, Towards Phantom, Open GSM 1900 GPRS Channel 512

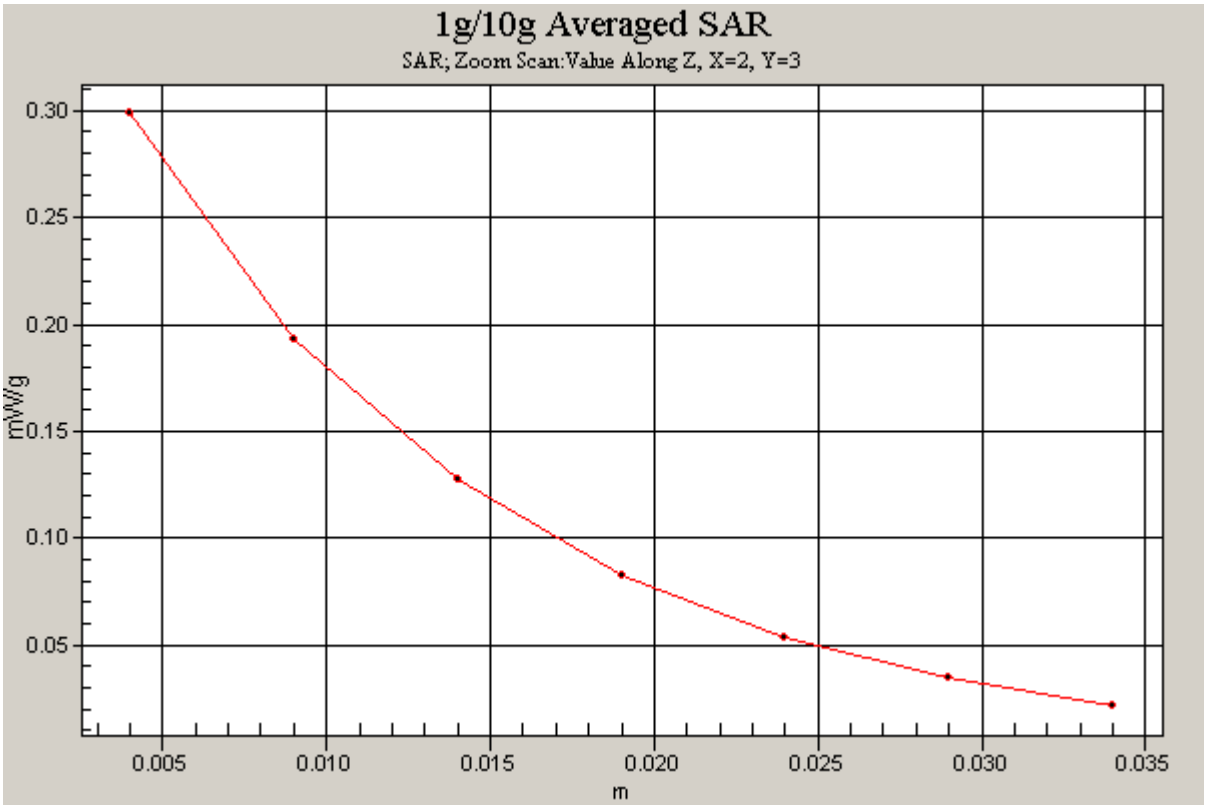


Figure 59 Z-Scan at power reference point (Body, Towards Phantom, Open GSM 1900 GPRS Channel 512)

GSM 1900 EGPRS Towards Ground High Open

Communication System: GSM 1900+EGPRS(2Up); Frequency: 1909.8 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.242 mW/g

Towards Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.98 V/m; Power Drift = 0.084 dB
Peak SAR (extrapolated) = 0.337 W/kg
SAR(1 g) = 0.223 mW/g; SAR(10 g) = 0.135 mW/g
Maximum value of SAR (measured) = 0.244 mW/g

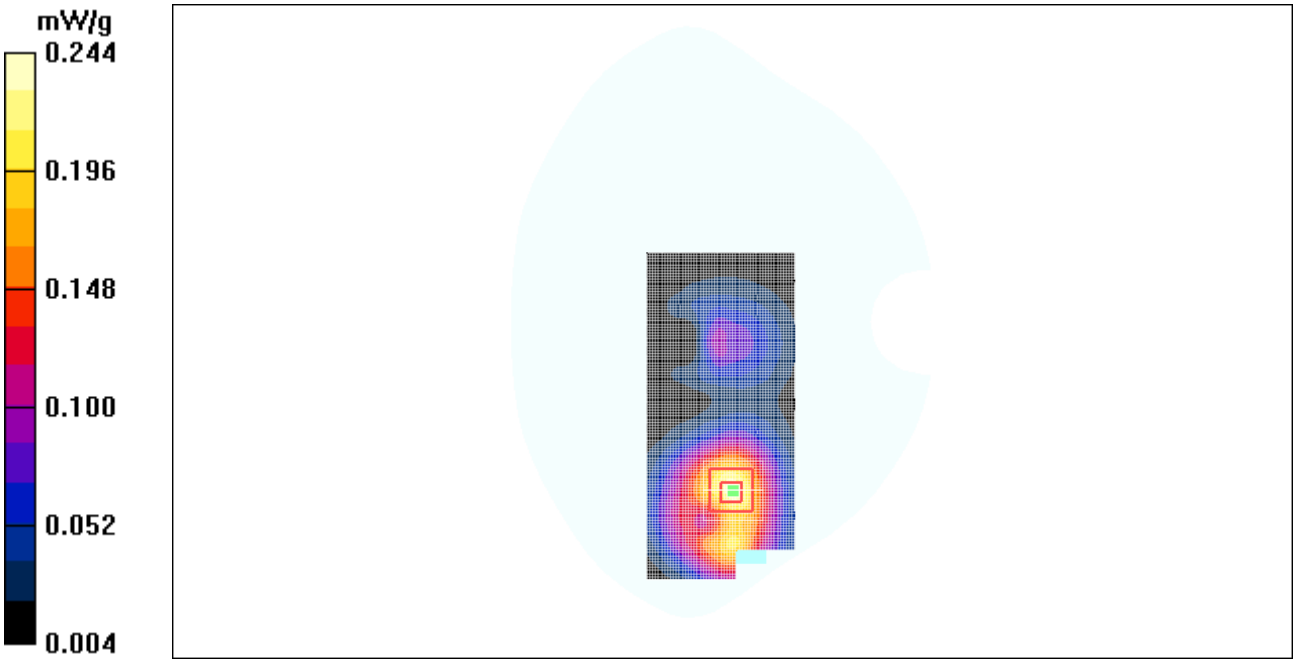


Figure 60 Body, Towards Ground, Open GSM 1900 EGPRS Channel 810

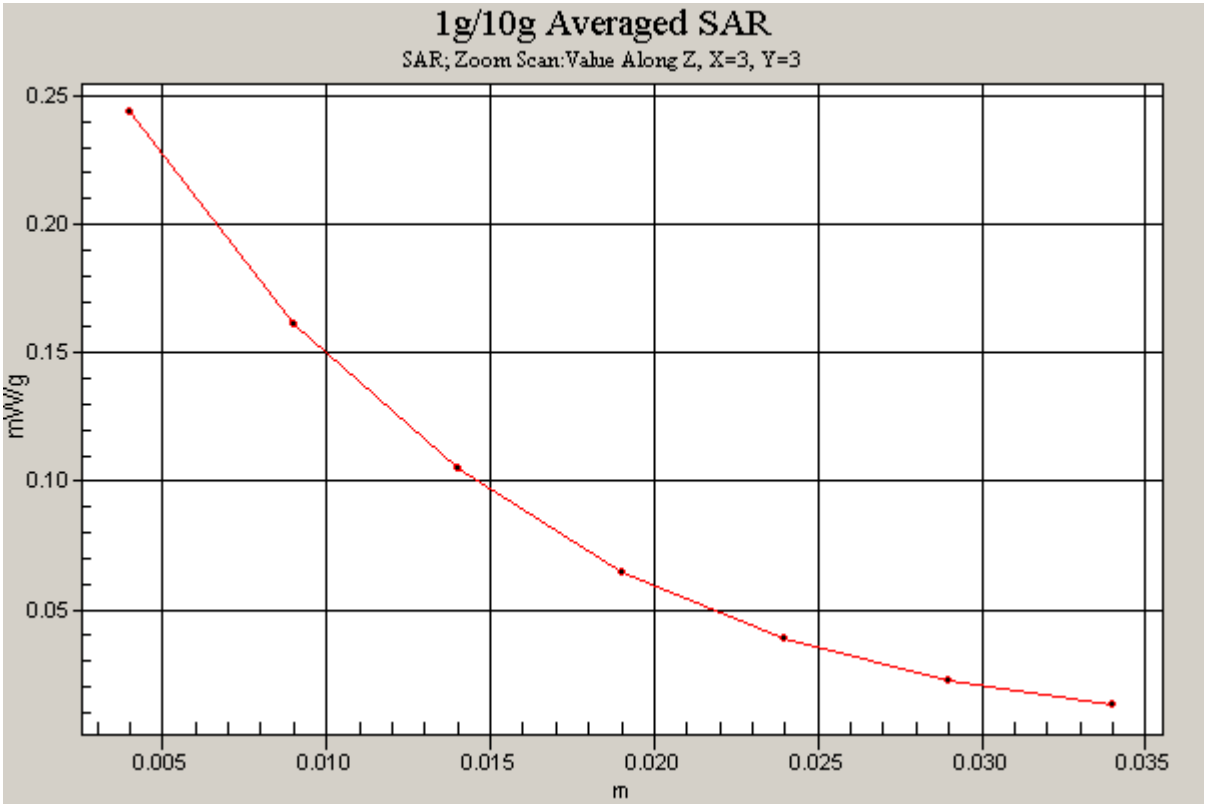


Figure 61 Z-Scan at power reference point (Body, Towards Ground, Open GSM 1900 EGPRS Channel 810)

GSM 1900 Left Cheek High Close

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.44 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Cheek High/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.240 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.45 V/m; Power Drift = -0.070 dB
Peak SAR (extrapolated) = 0.314 W/kg
SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.142 mW/g
Maximum value of SAR (measured) = 0.245 mW/g

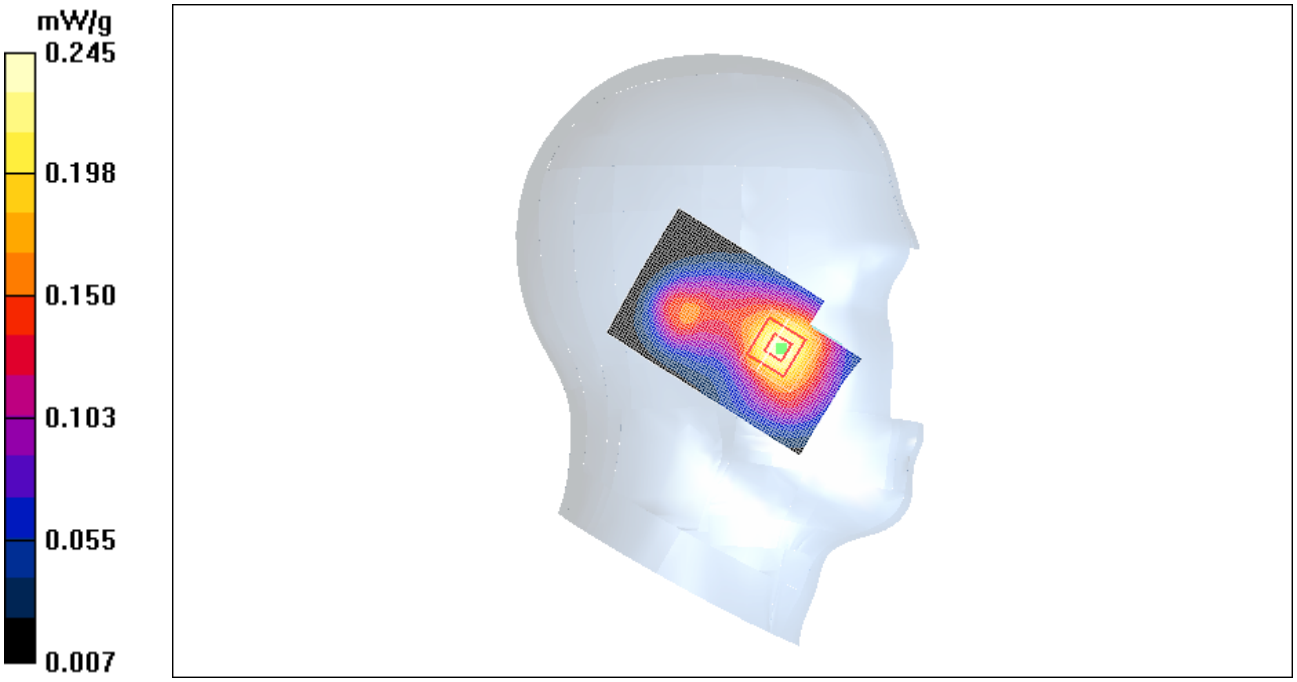


Figure 62 Left Hand Touch Cheek Close GSM 1900 Channel 810

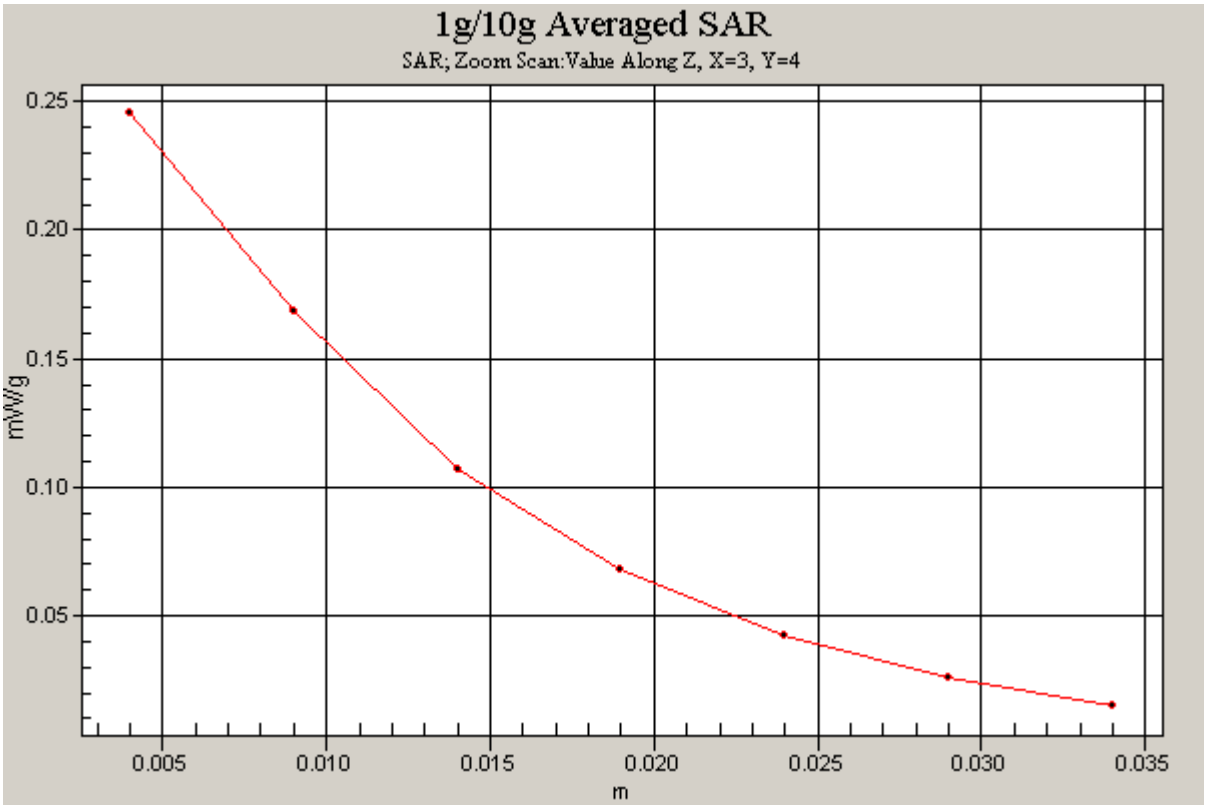


Figure 63 Z-Scan at power reference point (Left Hand Touch Cheek Close GSM 1900 Channel 810)

GSM 1900 Left Cheek Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.41 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Cheek Middle/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.244 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.09 V/m; Power Drift = 0.037 dB
Peak SAR (extrapolated) = 0.308 W/kg
SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.146 mW/g
Maximum value of SAR (measured) = 0.249 mW/g

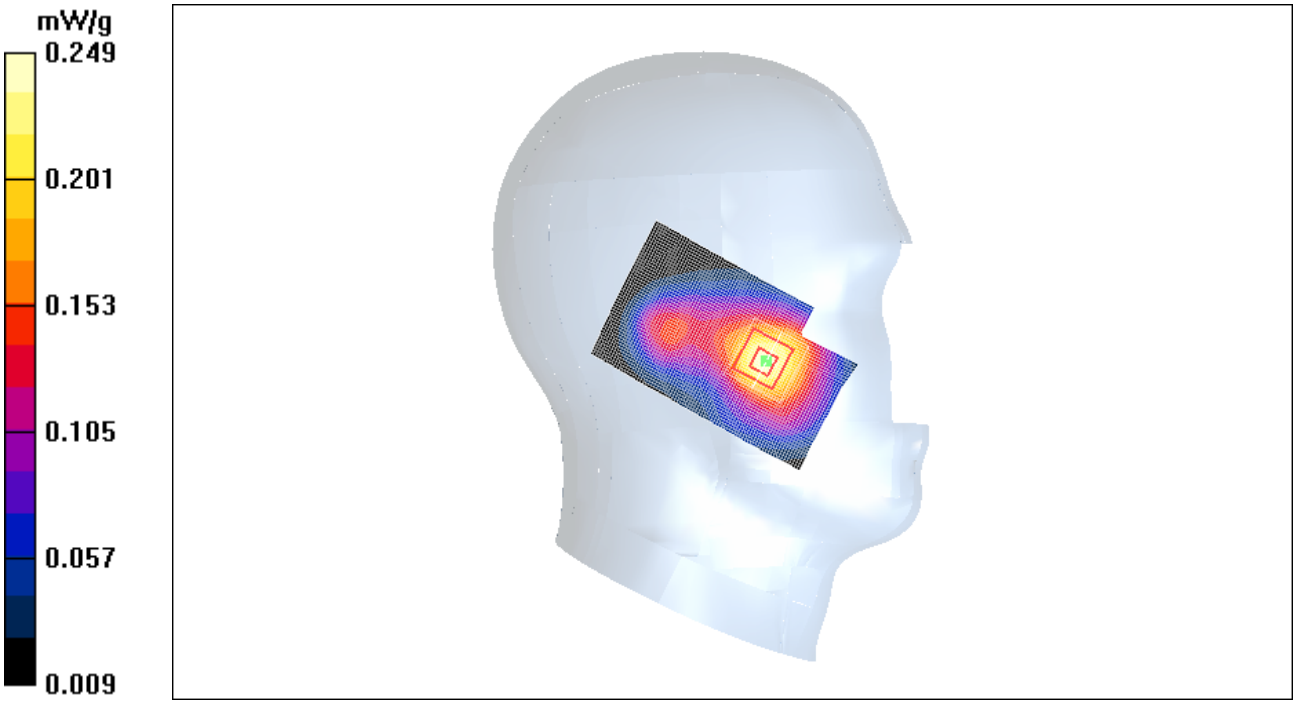


Figure 64 Left Hand Touch Cheek Close GSM 1900 Channel 661

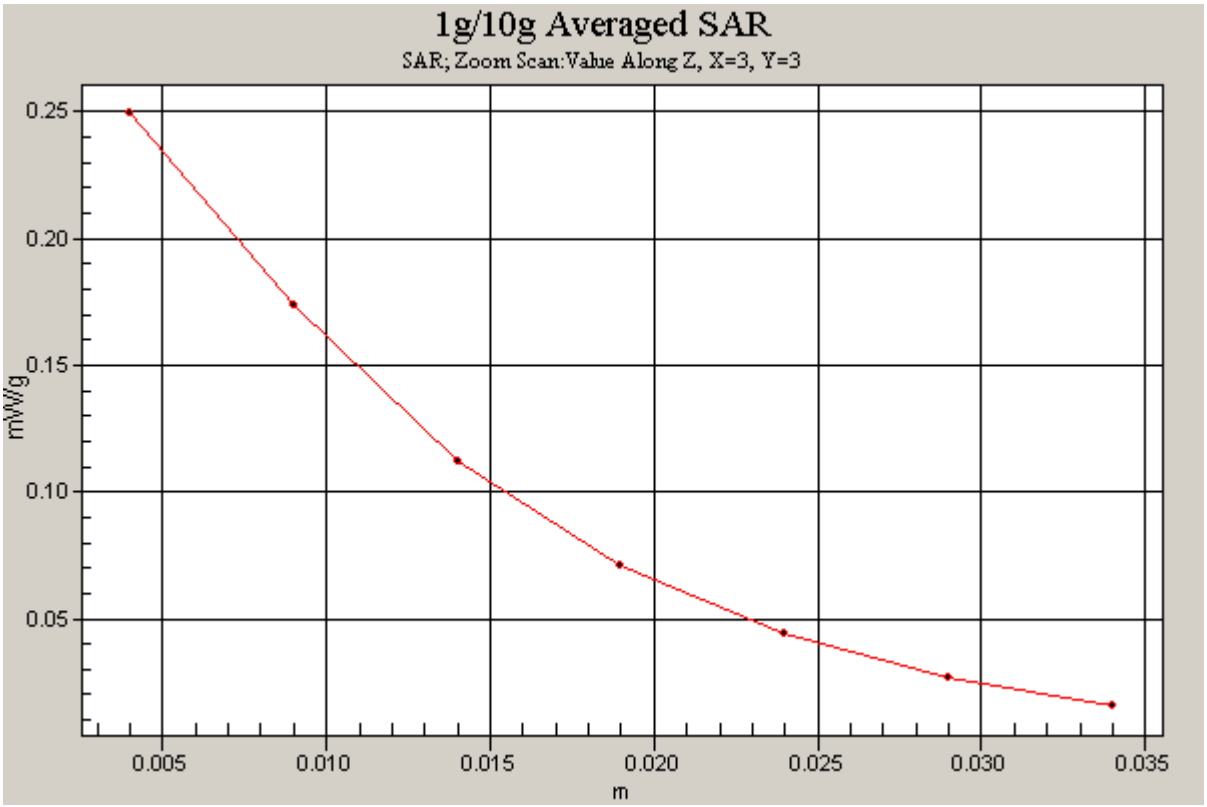


Figure 65 Z-Scan at power reference point (Left Hand Touch Cheek Close GSM 1900 Channel 661)

GSM 1900 Left Cheek Low Close

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.37 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Cheek Low/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.266 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.32 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 0.335 W/kg
SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.159 mW/g
Maximum value of SAR (measured) = 0.277 mW/g

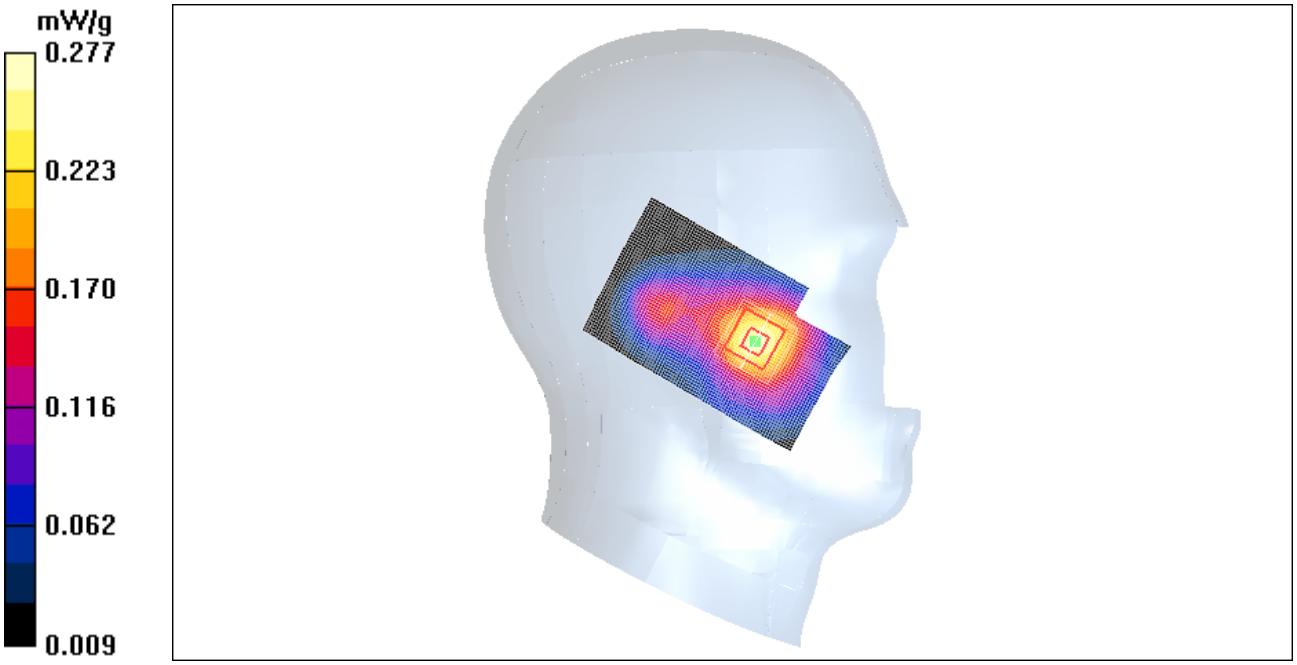


Figure 66 Left Hand Touch Cheek Close GSM 1900 Channel 512

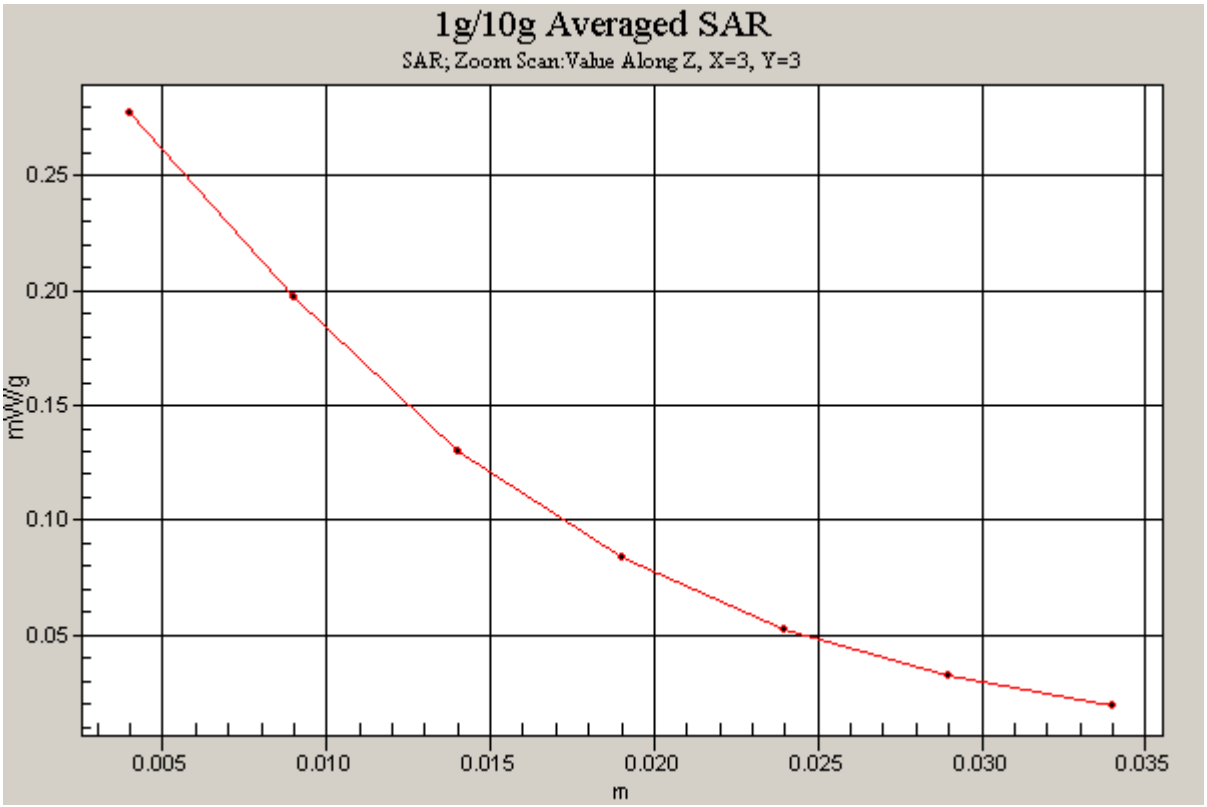


Figure 67 Z-Scan at power reference point (Left Hand Touch Cheek Close GSM 1900 Channel 512)

GSM 1900 Left Tilt High Close

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.44 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Tilt High/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.159 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.3 V/m; Power Drift = -0.078 dB
Peak SAR (extrapolated) = 0.245 W/kg
SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.087 mW/g
Maximum value of SAR (measured) = 0.169 mW/g

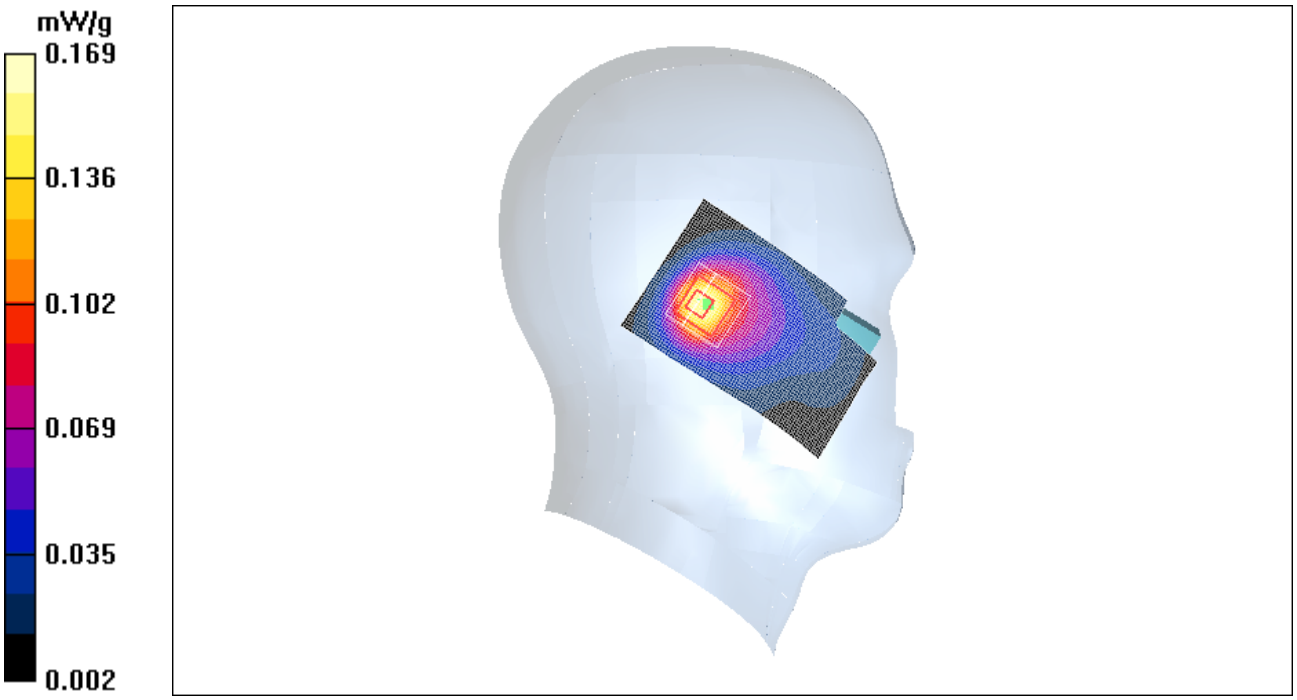


Figure 68 Left Hand Tilt 15°Close GSM 1900 Channel 810

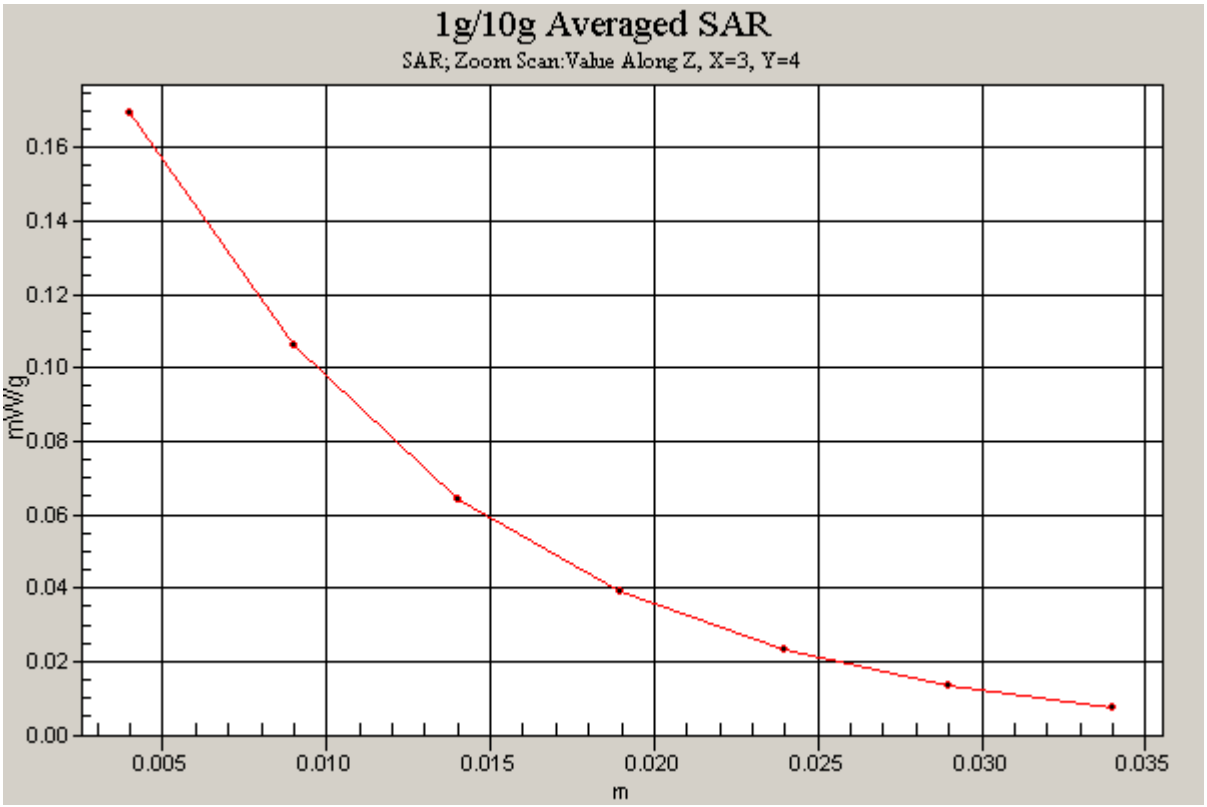


Figure 69 Z-Scan at power reference point (Left Hand Tilt 15°Close GSM 1900 Channel 810)

GSM 1900 Left Tilt Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.41 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Tilt Middle/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.147 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.86 V/m; Power Drift = 0.017 dB
Peak SAR (extrapolated) = 0.221 W/kg
SAR(1 g) = 0.139 mW/g; SAR(10 g) = 0.080 mW/g
Maximum value of SAR (measured) = 0.154 mW/g

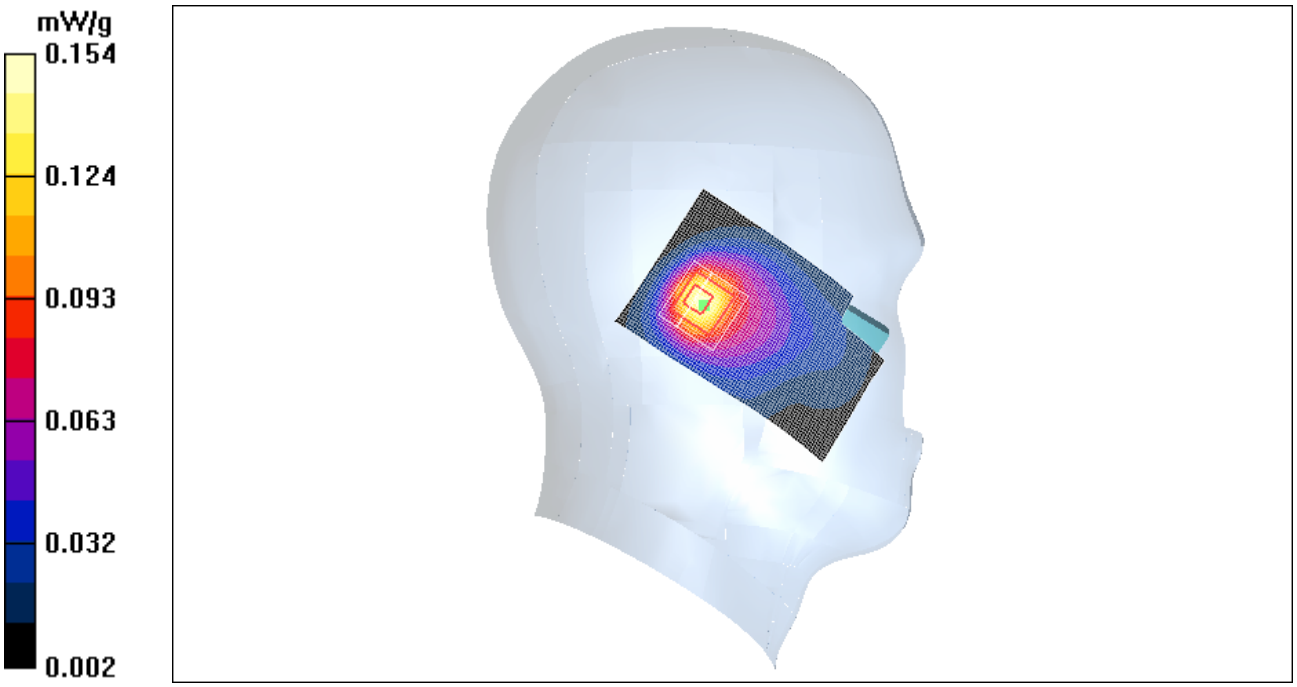


Figure 70 Left Hand Tilt 15 ° Close GSM 1900 Channel 661

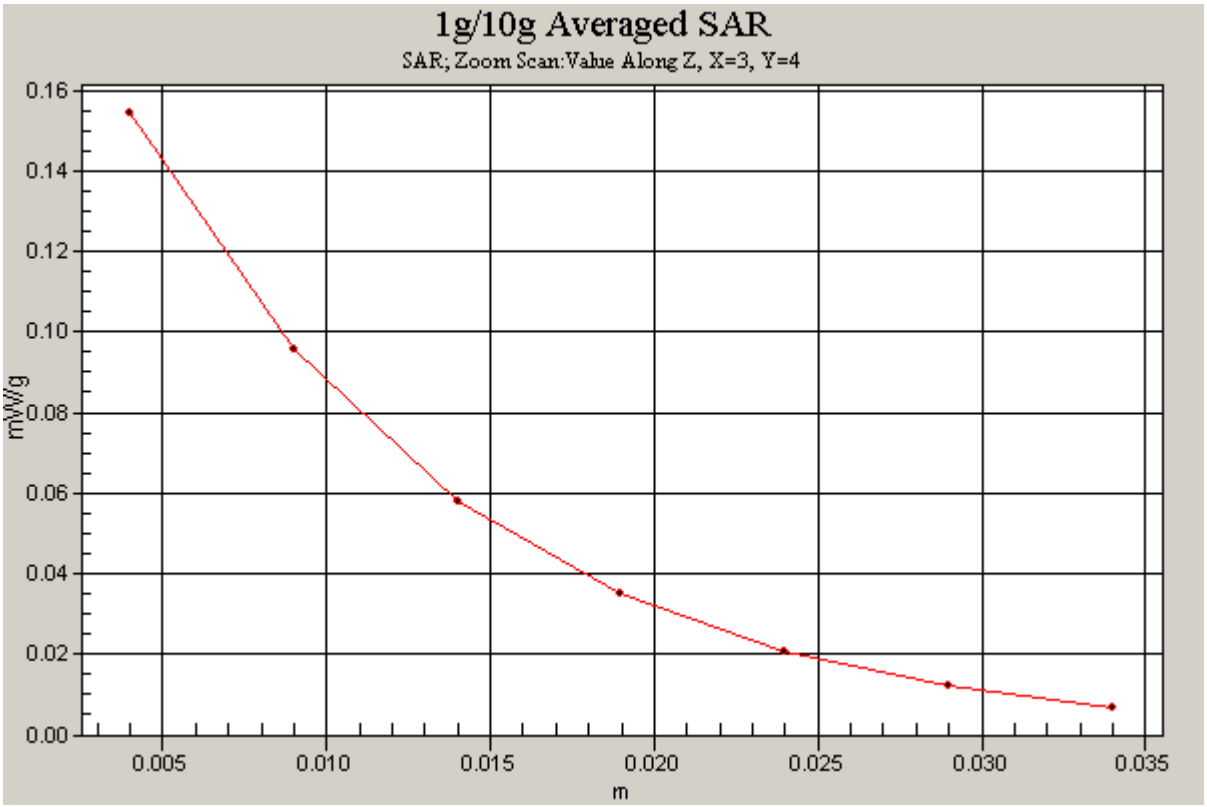


Figure 71 Z-Scan at power reference point (Left Hand Tilt 15 ° Close GSM 1900 Channel 661)

GSM 1900 Left Tilt Low Close

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.37 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Tilt Low/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.146 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.97 V/m; Power Drift = -0.028 dB
Peak SAR (extrapolated) = 0.223 W/kg
SAR(1 g) = 0.139 mW/g; SAR(10 g) = 0.080 mW/g
Maximum value of SAR (measured) = 0.156 mW/g

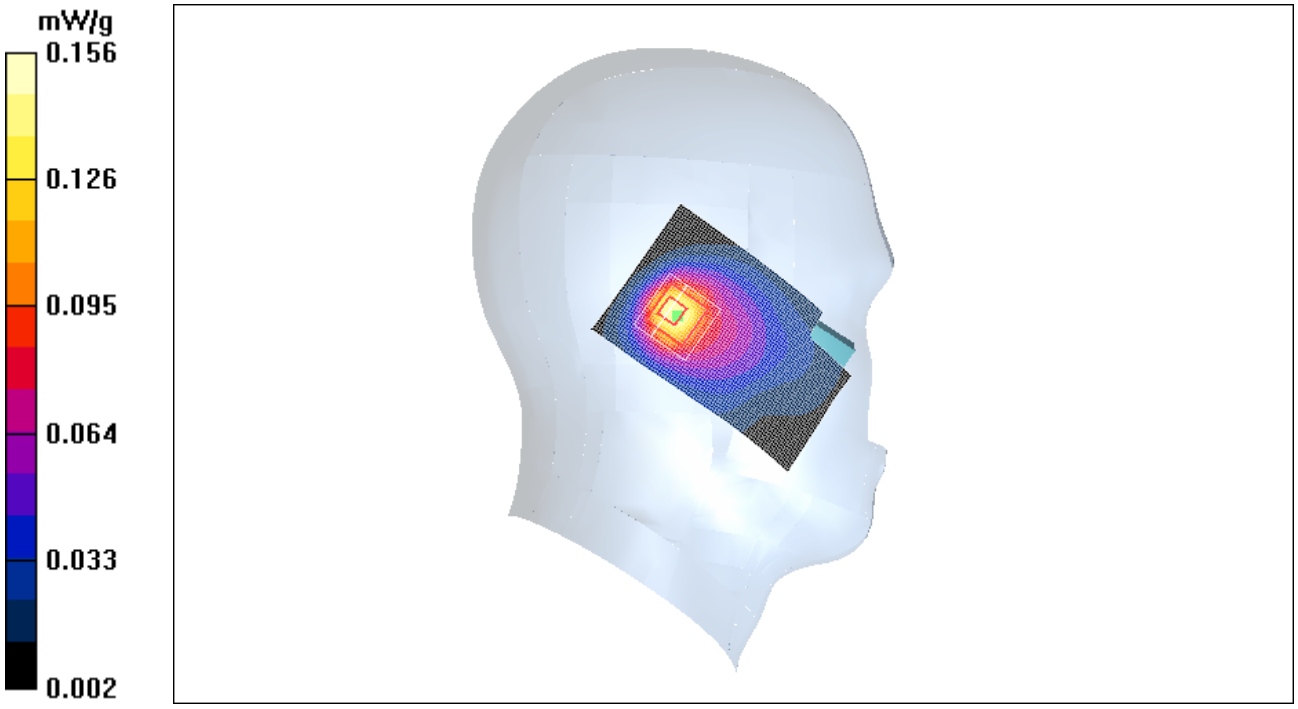


Figure 72 Left Hand Tilt 15 ° Close GSM 1900 Channel 512

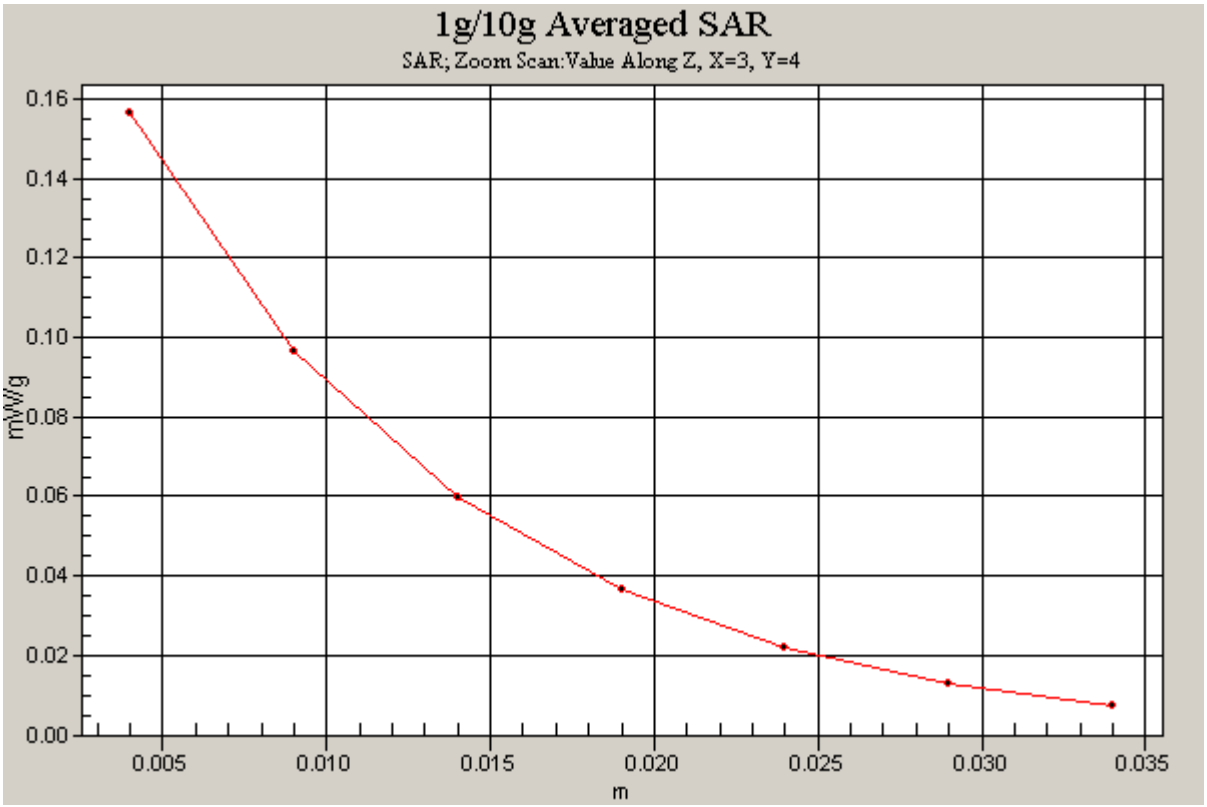


Figure 73 Z-Scan at power reference point (Left Hand Tilt 15 ° Close GSM 1900 Channel 512)

GSM 1900 Right Cheek High Close

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.44 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Cheek High/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.272 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.81 V/m; Power Drift = -0.029 dB
Peak SAR (extrapolated) = 0.329 W/kg
SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.153 mW/g
Maximum value of SAR (measured) = 0.267 mW/g

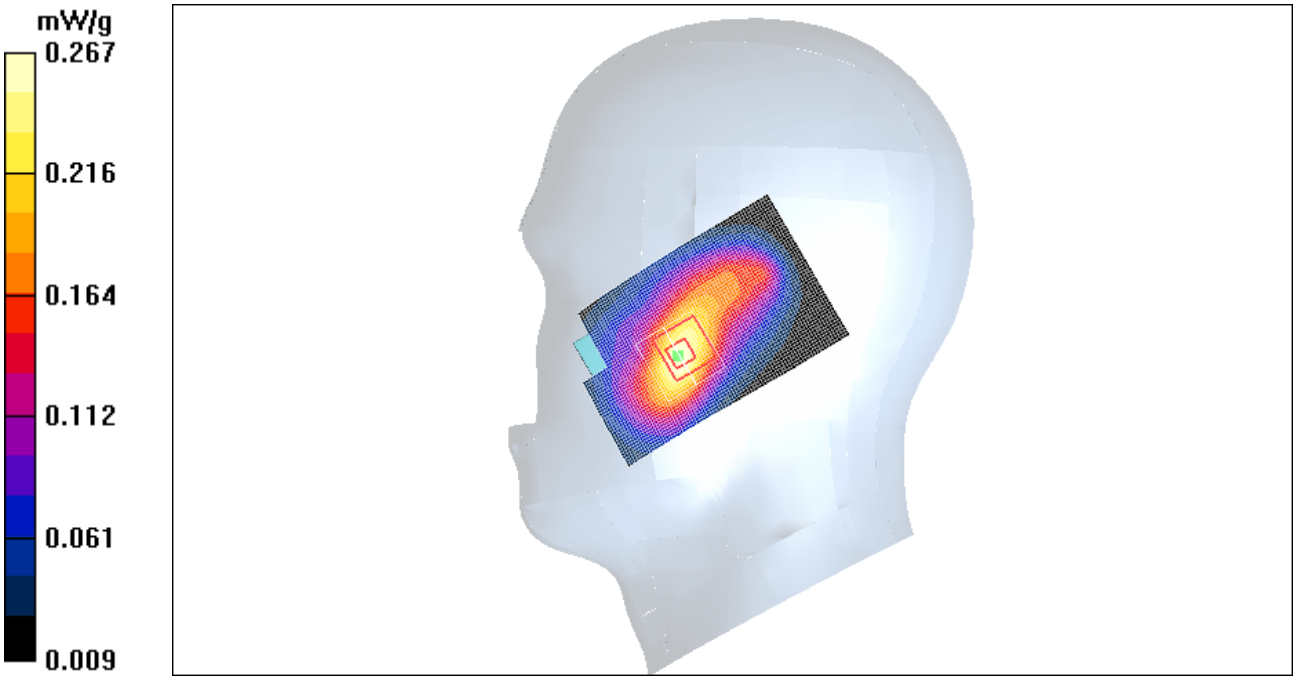


Figure 74 Right Hand Touch Cheek Close GSM 1900 Channel 810

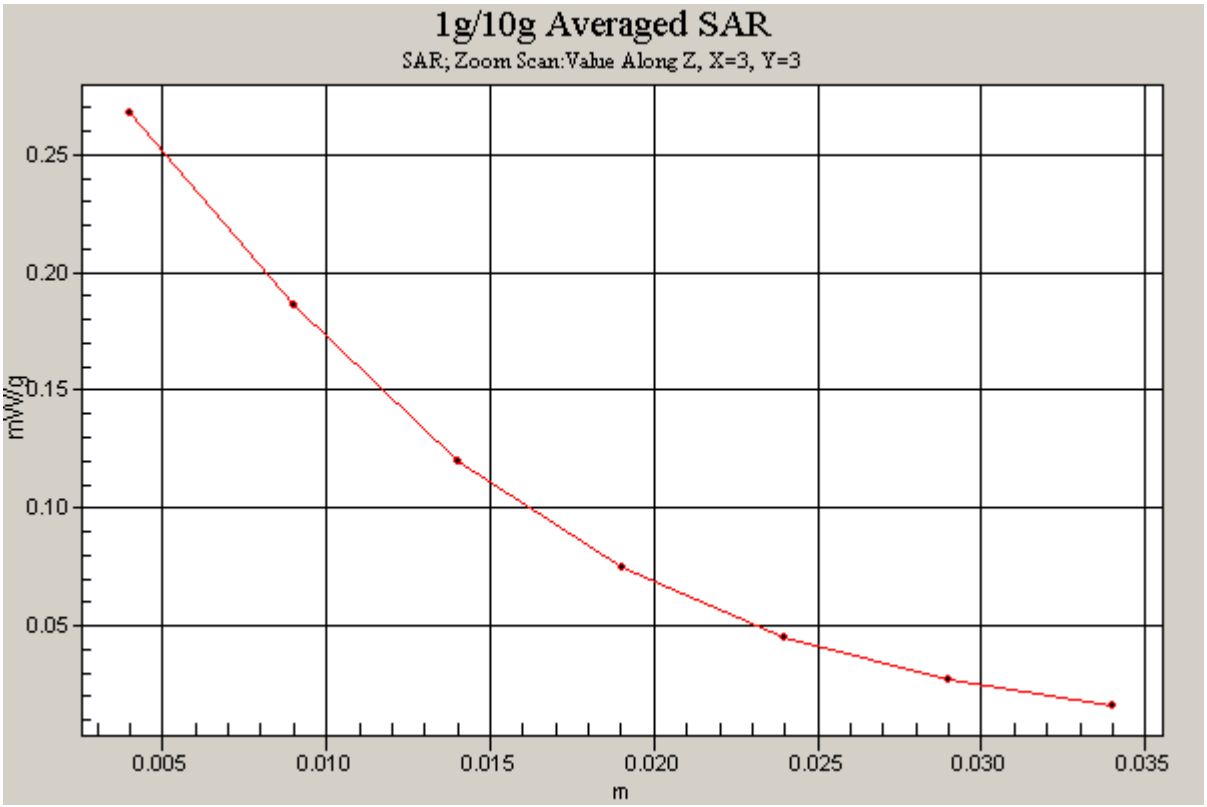


Figure 75 Z-Scan at power reference point (Right Hand Touch Cheek Close GSM 1900 Channel 810)

GSM 1900 Right Cheek Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.41 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Cheek Middle/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.263 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.39 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 0.319 W/kg
SAR(1 g) = 0.238 mW/g; SAR(10 g) = 0.151 mW/g
Maximum value of SAR (measured) = 0.262 mW/g

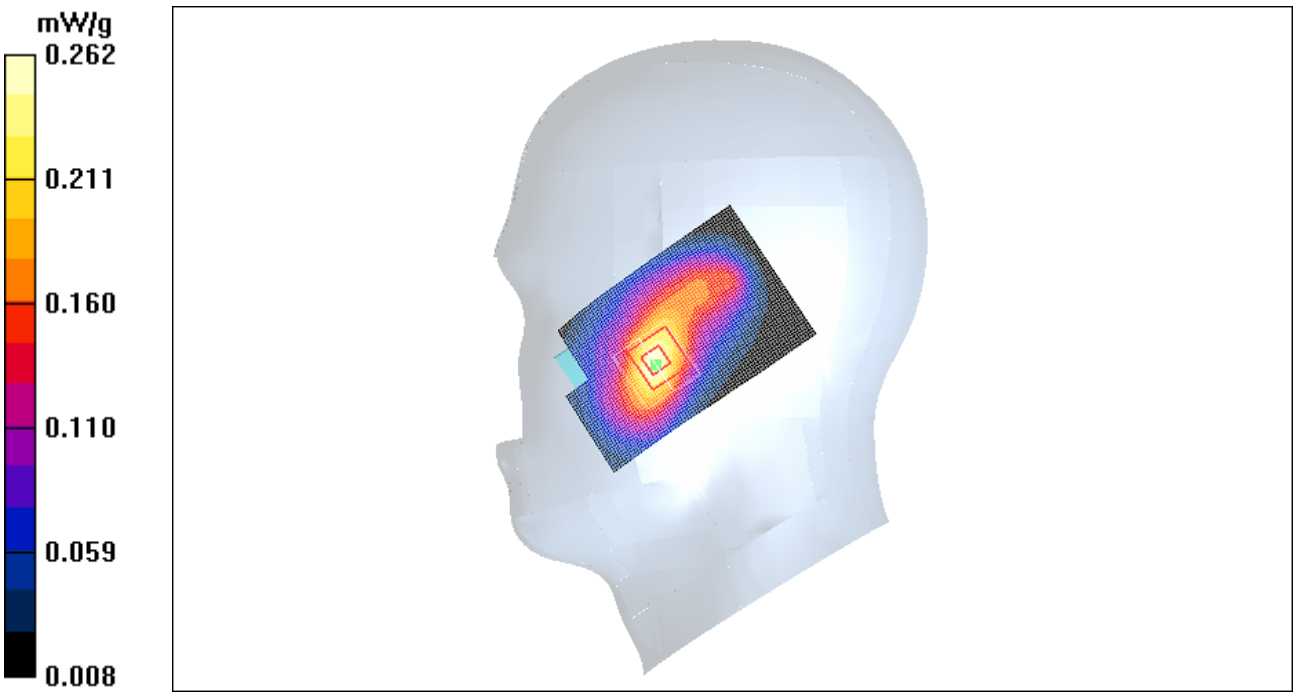


Figure 76 Right Hand Touch Cheek Close GSM 1900 Channel 661

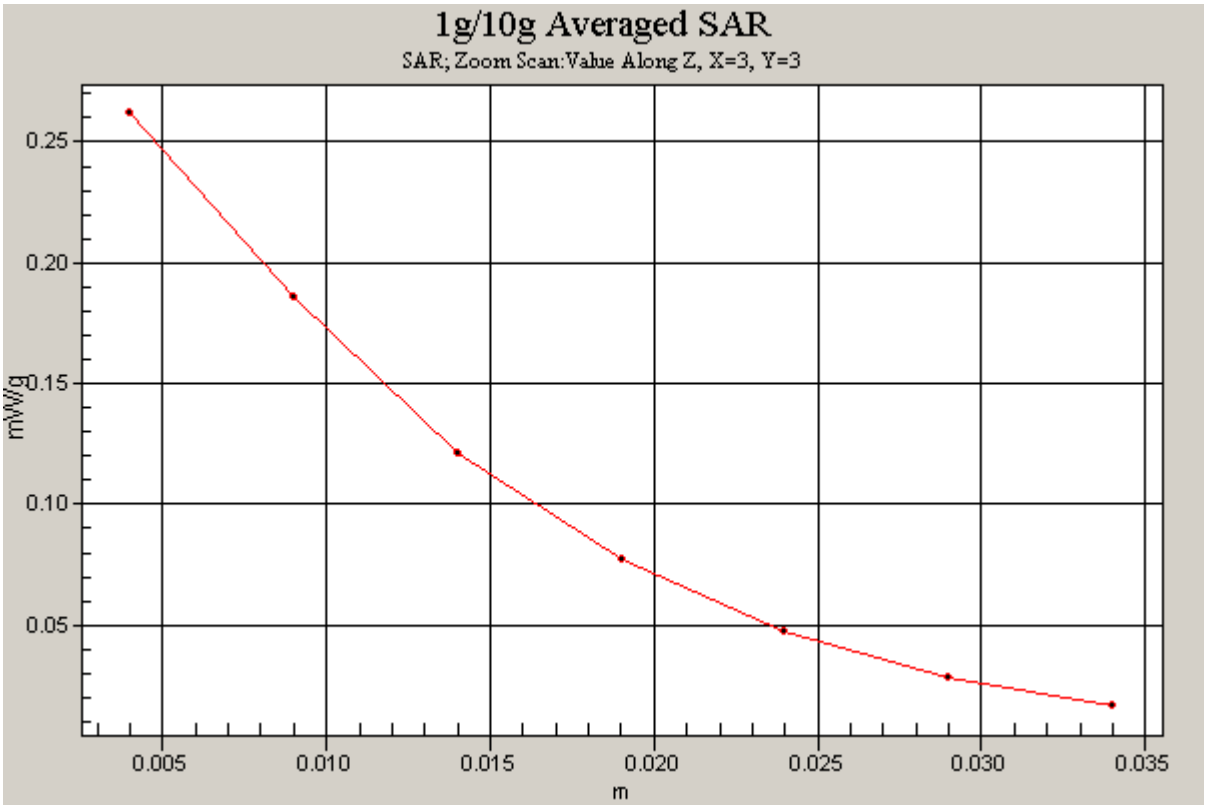


Figure 77 Z-Scan at power reference point (Right Hand Touch Cheek Close GSM 1900 Channel 661)

GSM 1900 Right Cheek Low Close

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.37 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Cheek Low/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.270 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.1 V/m; Power Drift = -0.004 dB
Peak SAR (extrapolated) = 0.322 W/kg
SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.156 mW/g
Maximum value of SAR (measured) = 0.267 mW/g

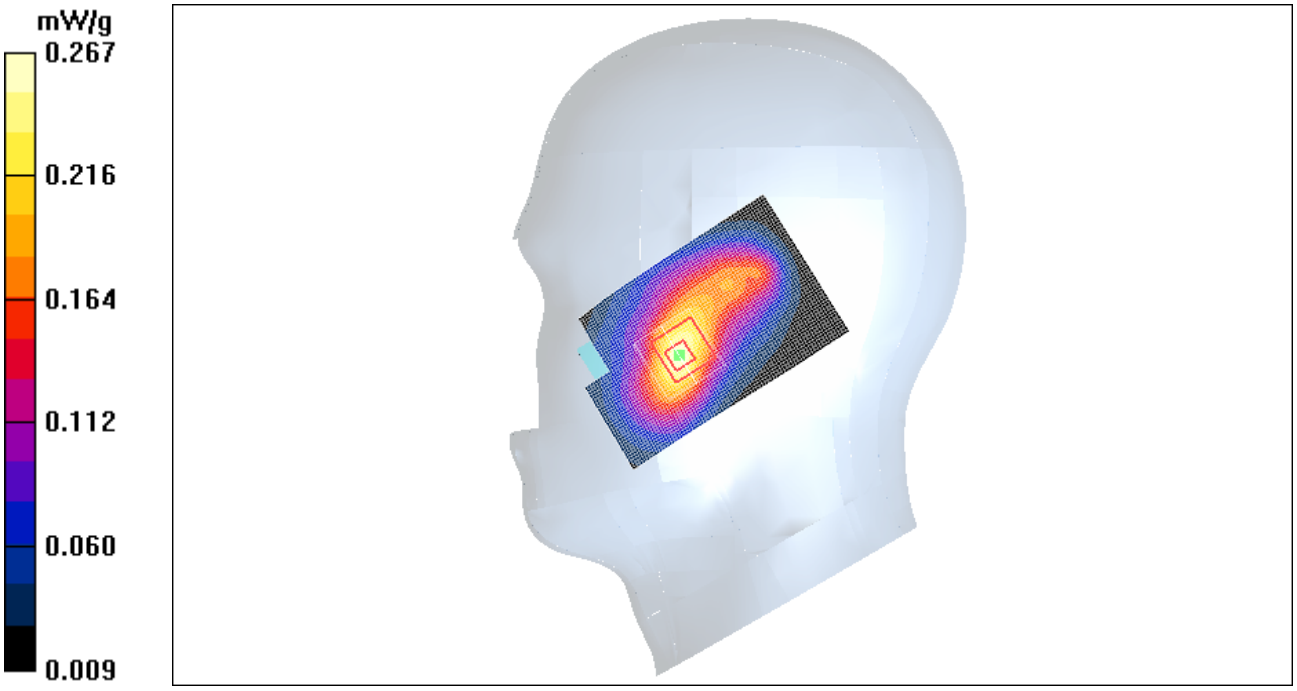


Figure 78 Right Hand Touch Cheek Close GSM 1900 Channel 512

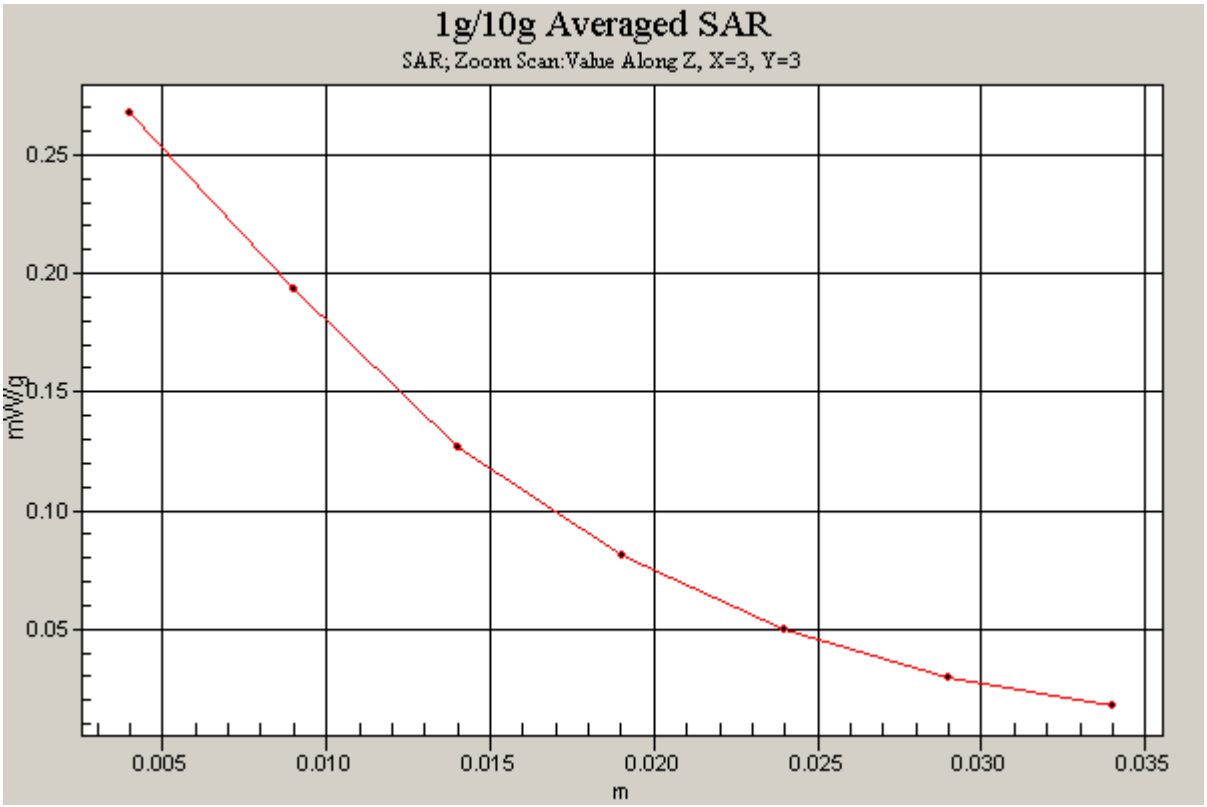


Figure 79 Z-Scan at power reference point (Right Hand Touch Cheek Close GSM 1900 Channel 512)

GSM 1900 Right Tilt High Close

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.44 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Tilt High/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.206 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.7 V/m; Power Drift = 0.020 dB
Peak SAR (extrapolated) = 0.297 W/kg
SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.099 mW/g
Maximum value of SAR (measured) = 0.198 mW/g

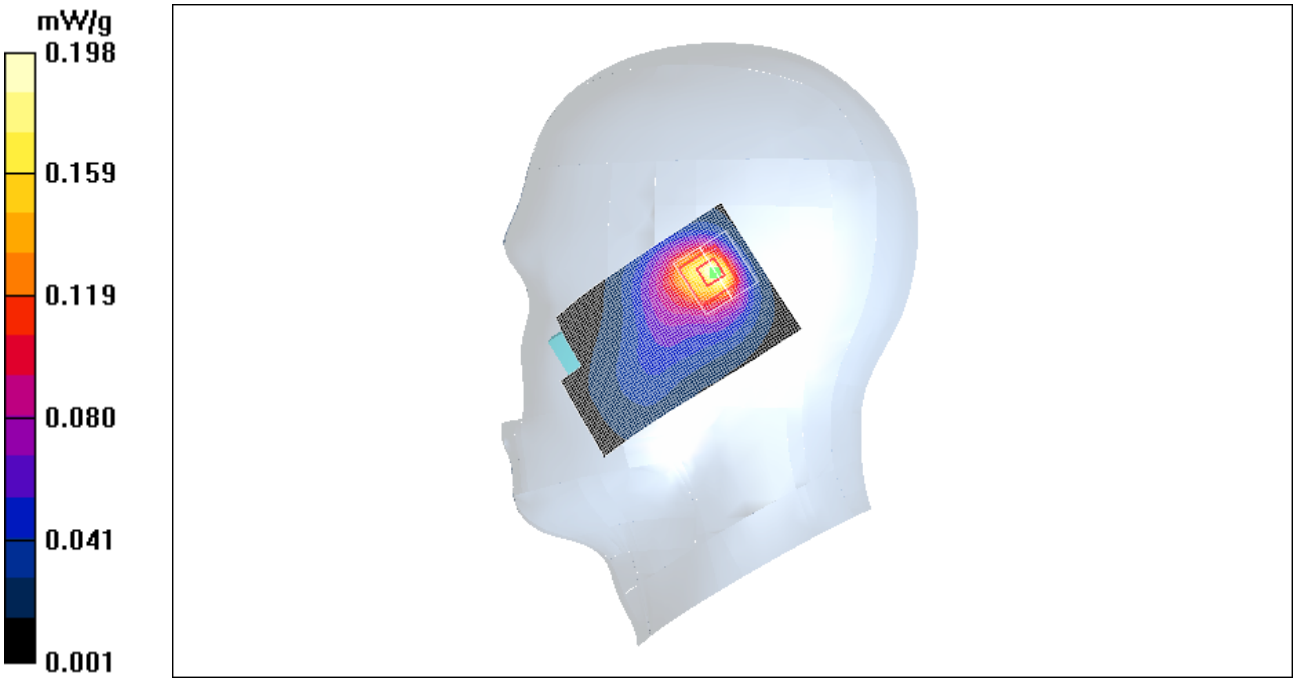


Figure 80 Right Hand Tilt 15 ° Close GSM 1900 Channel 810

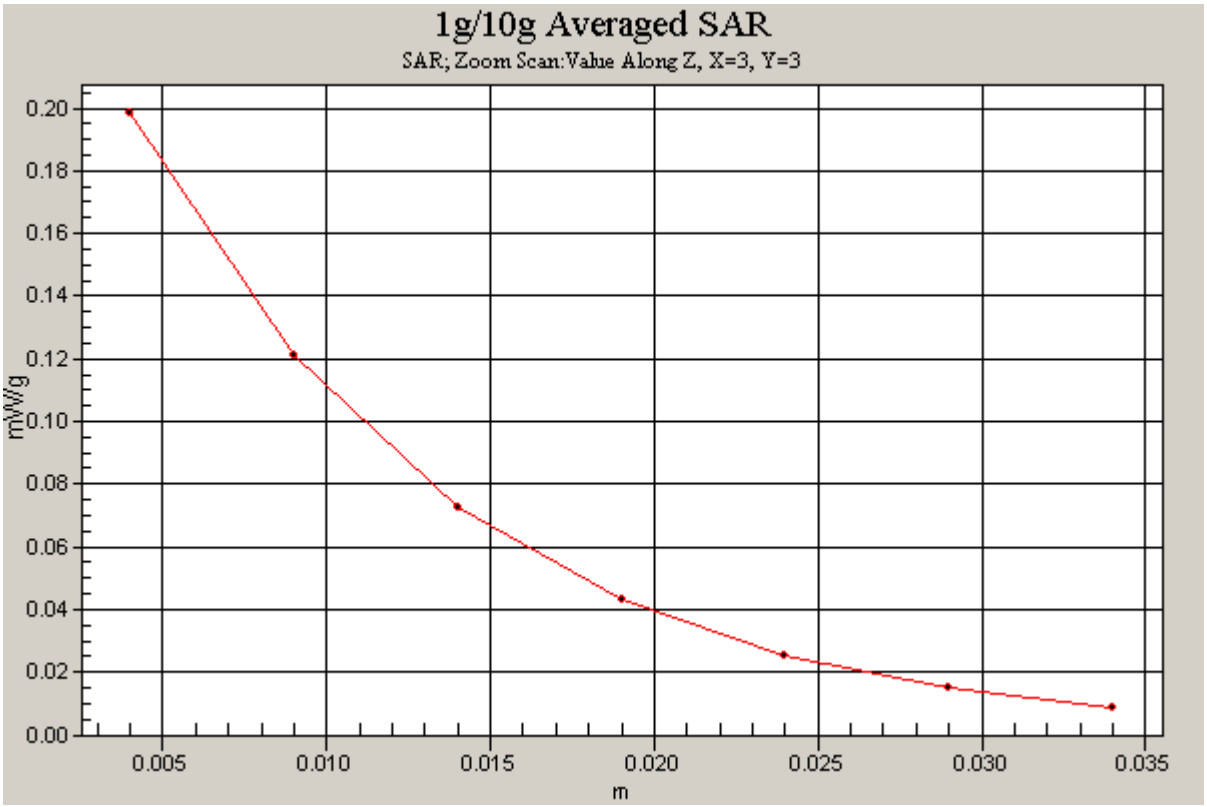


Figure 81 Z-Scan at power reference point (Right Hand Tilt 15 ° Close GSM 1900 Channel 810)

GSM 1900 Right Tilt Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.41 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Tilt Middle/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.193 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.3 V/m; Power Drift = -0.026 dB
Peak SAR (extrapolated) = 0.268 W/kg
SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.093 mW/g
Maximum value of SAR (measured) = 0.182 mW/g

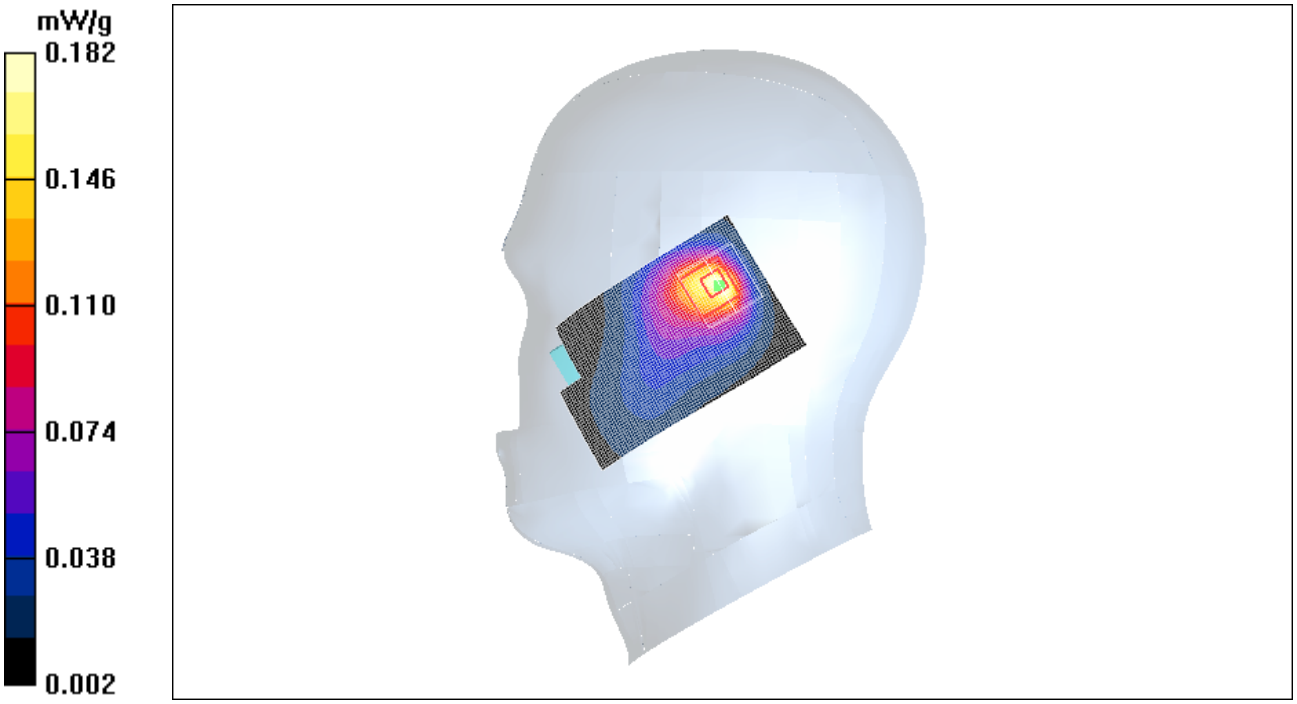


Figure 82 Right Hand Tilt 15 ° Close GSM 1900 Channel 661

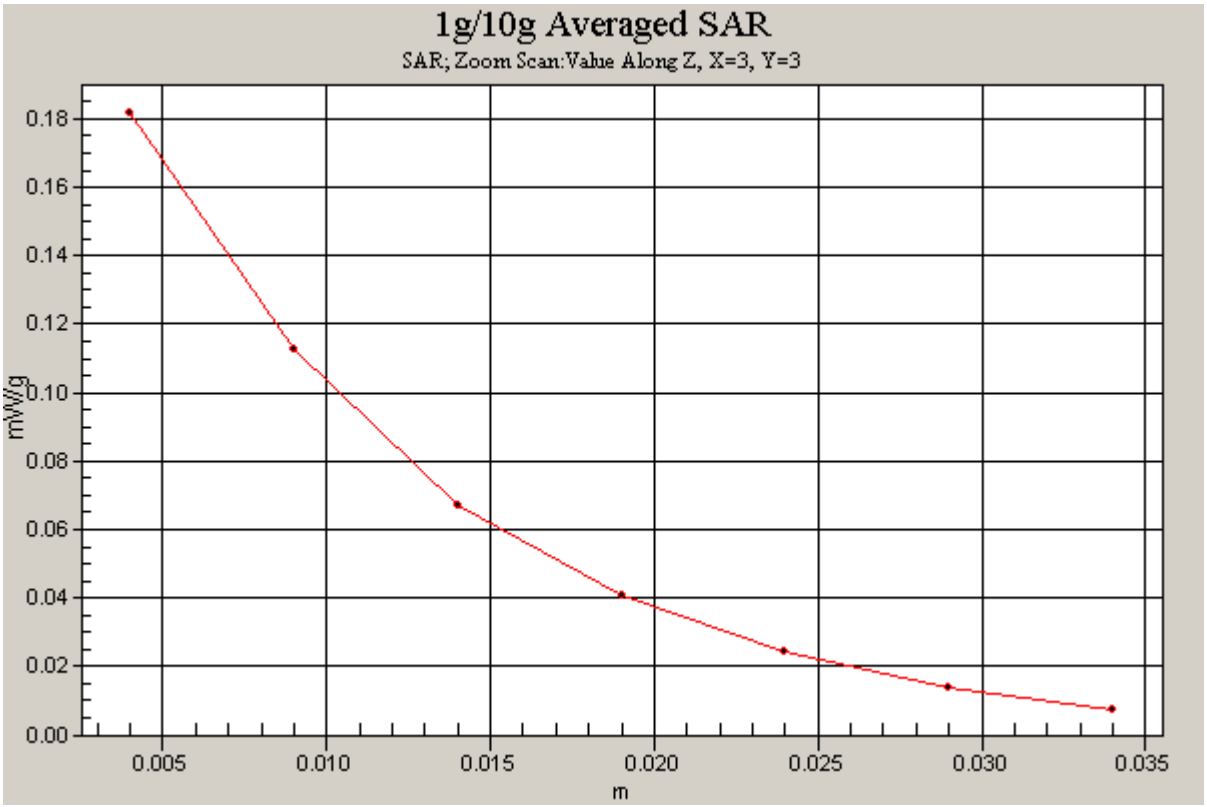


Figure 83 Z-Scan at power reference point (Right Hand Tilt 15 ° Close GSM 1900 Channel 661)

GSM 1900 Right Tilt Low Close

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.37 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);
Electronics: DAE4 Sn452;
Tilt Low/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.205 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.6 V/m; Power Drift = -0.037 dB
Peak SAR (extrapolated) = 0.273 W/kg
SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.098 mW/g
Maximum value of SAR (measured) = 0.189 mW/g

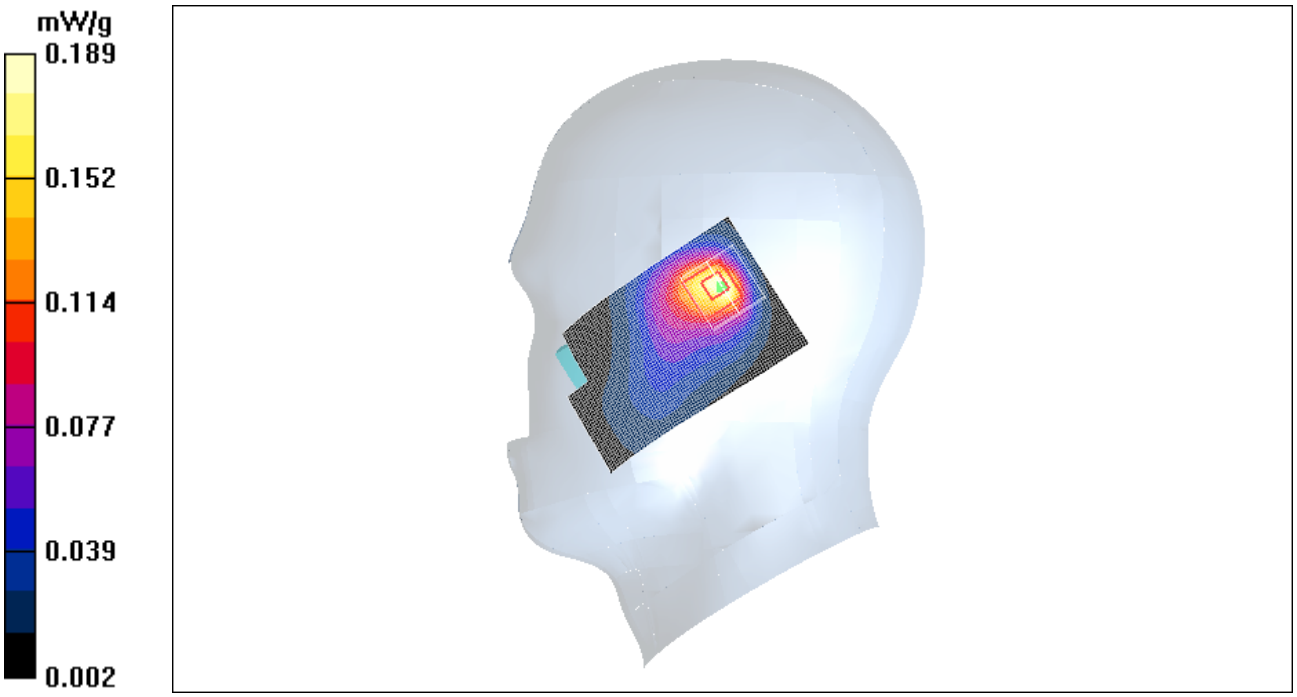


Figure 84 Right Hand Tilt 15 ° Close GSM 1900 Channel 512

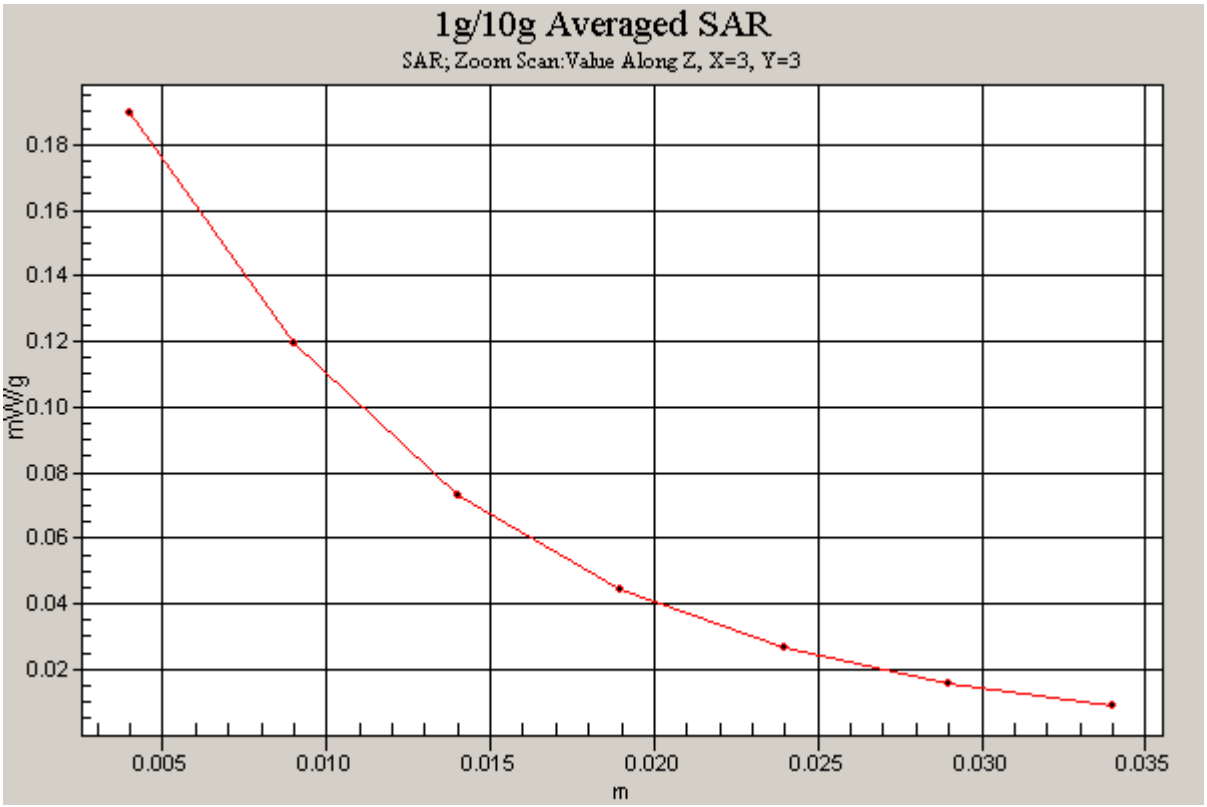


Figure 85 Z-Scan at power reference point (Right Hand Tilt 15 ° Close GSM 1900 Channel 512)

GSM 1900 Towards Ground High Close

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.403 mW/g

Towards Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.63 V/m; Power Drift = -0.105 dB
Peak SAR (extrapolated) = 0.690 W/kg
SAR(1 g) = 0.382 mW/g; SAR(10 g) = 0.208 mW/g
Maximum value of SAR (measured) = 0.417 mW/g

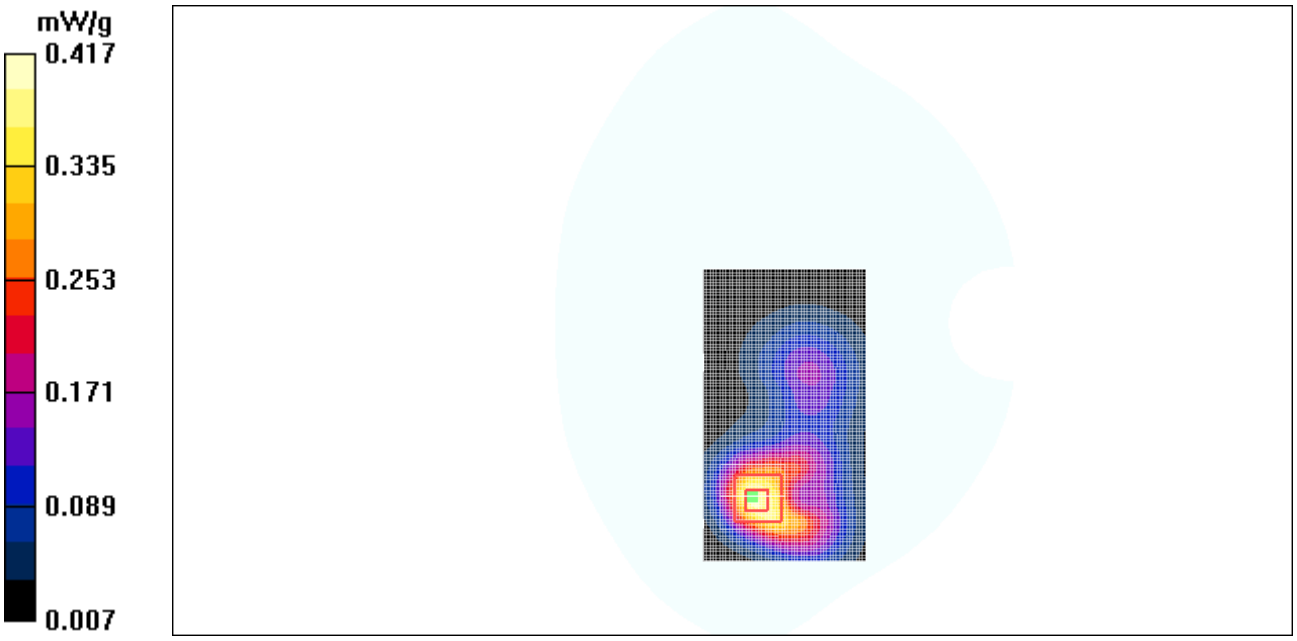


Figure 86 Body, Towards Ground, Close GSM 1900 Channel 810

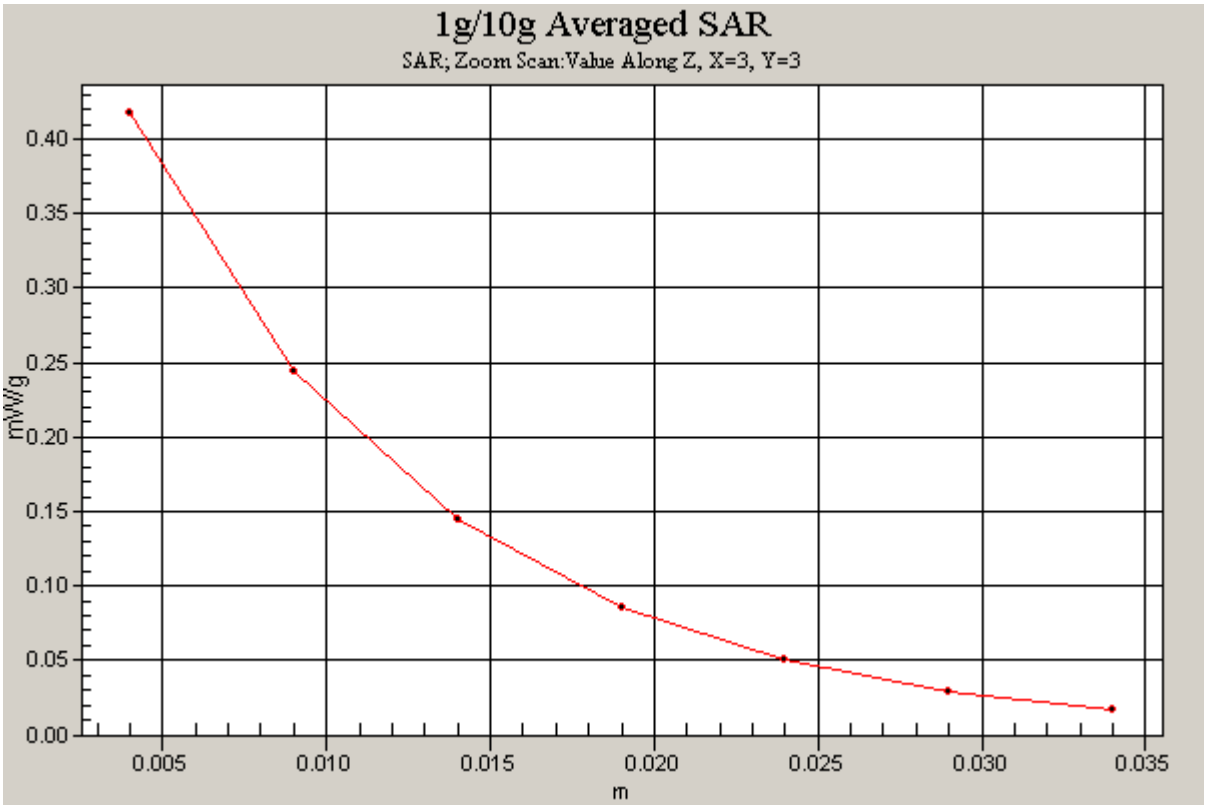


Figure 87 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 Channel 810)

GSM 1900 Towards Ground Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.365 mW/g

Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.40 V/m; Power Drift = -0.007 dB
Peak SAR (extrapolated) = 0.621 W/kg
SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.188 mW/g
Maximum value of SAR (measured) = 0.382 mW/g

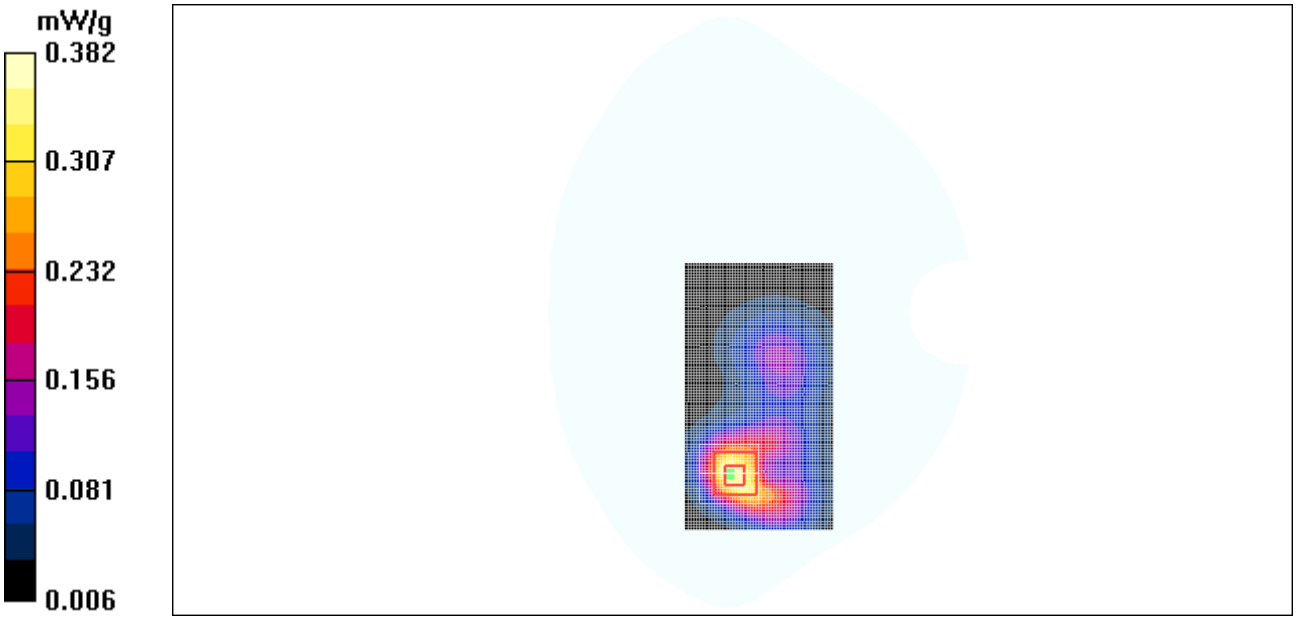


Figure 88 Body, Towards Ground, Close GSM 1900 Channel 661

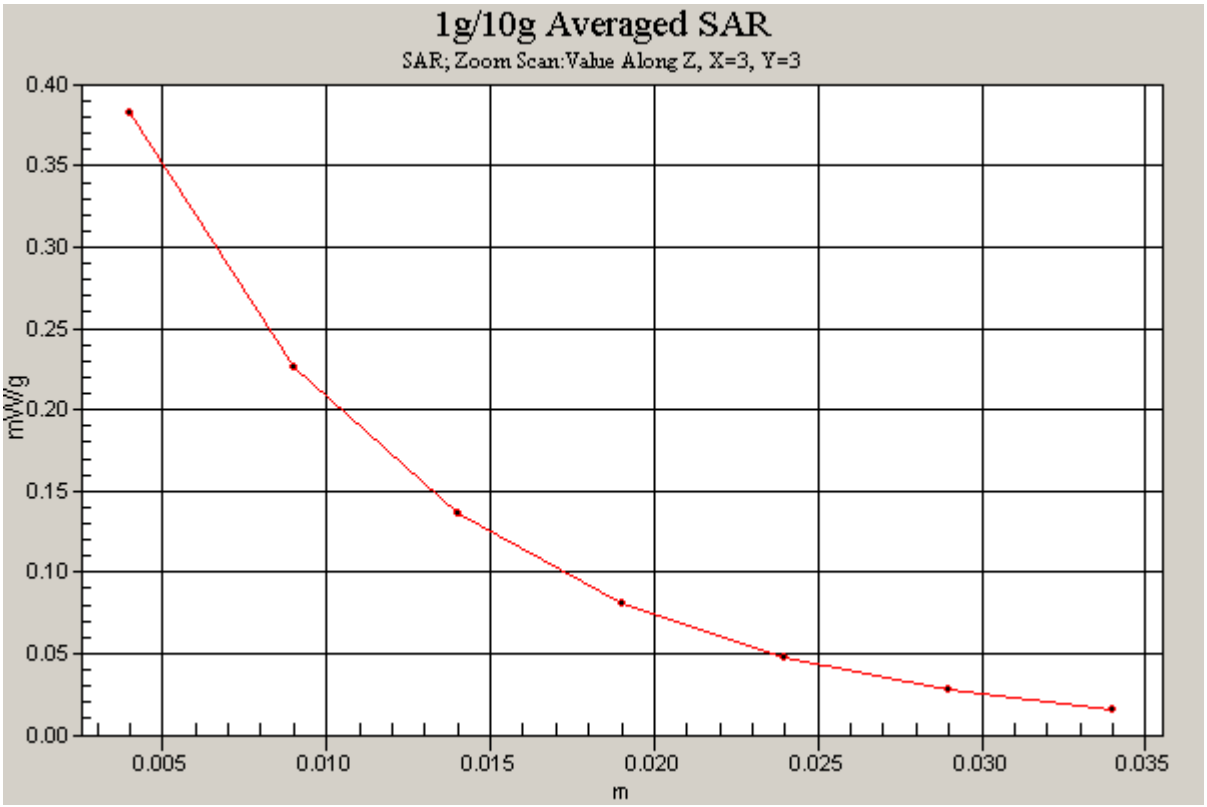


Figure 89 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 Channel 661)

GSM 1900 Towards Ground Low Close

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.47 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm.
Maximum value of SAR (interpolated) = 0.361 mW/g

Towards Ground Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.35 V/m; Power Drift = 0.025 dB
Peak SAR (extrapolated) = 0.613 W/kg
SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.186 mW/g
Maximum value of SAR (measured) = 0.390 mW/g

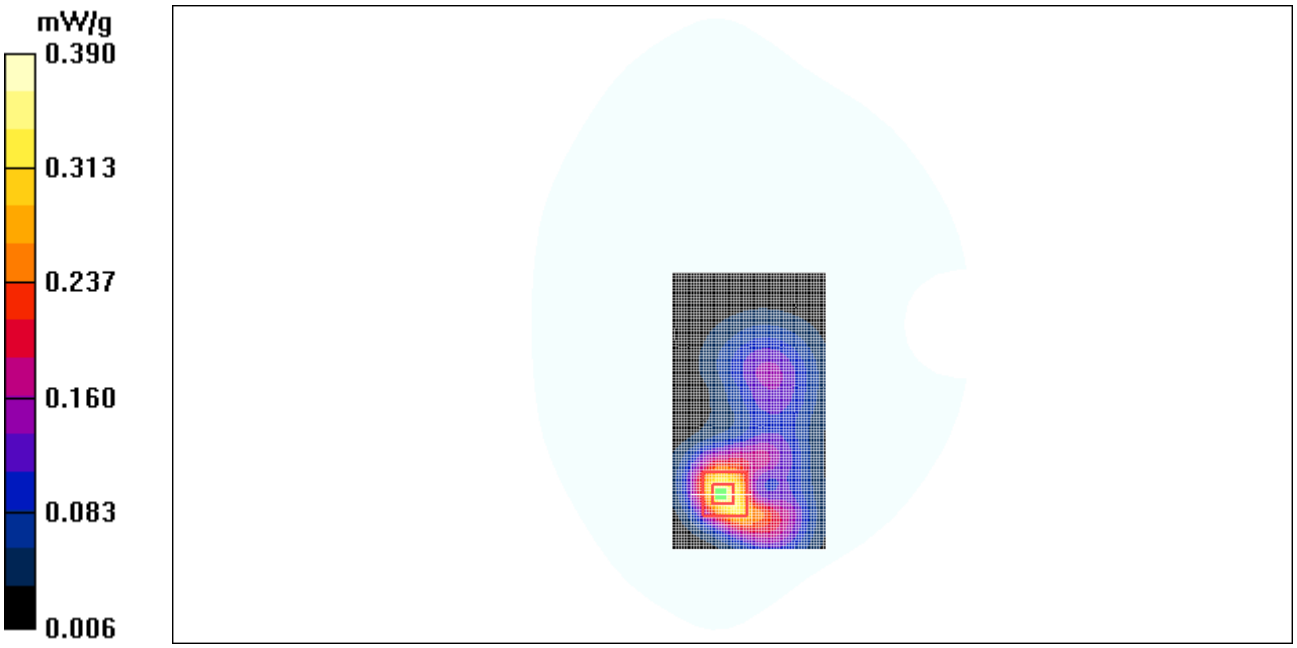


Figure 90 Body, Towards Ground, Close GSM 1900 Channel 512

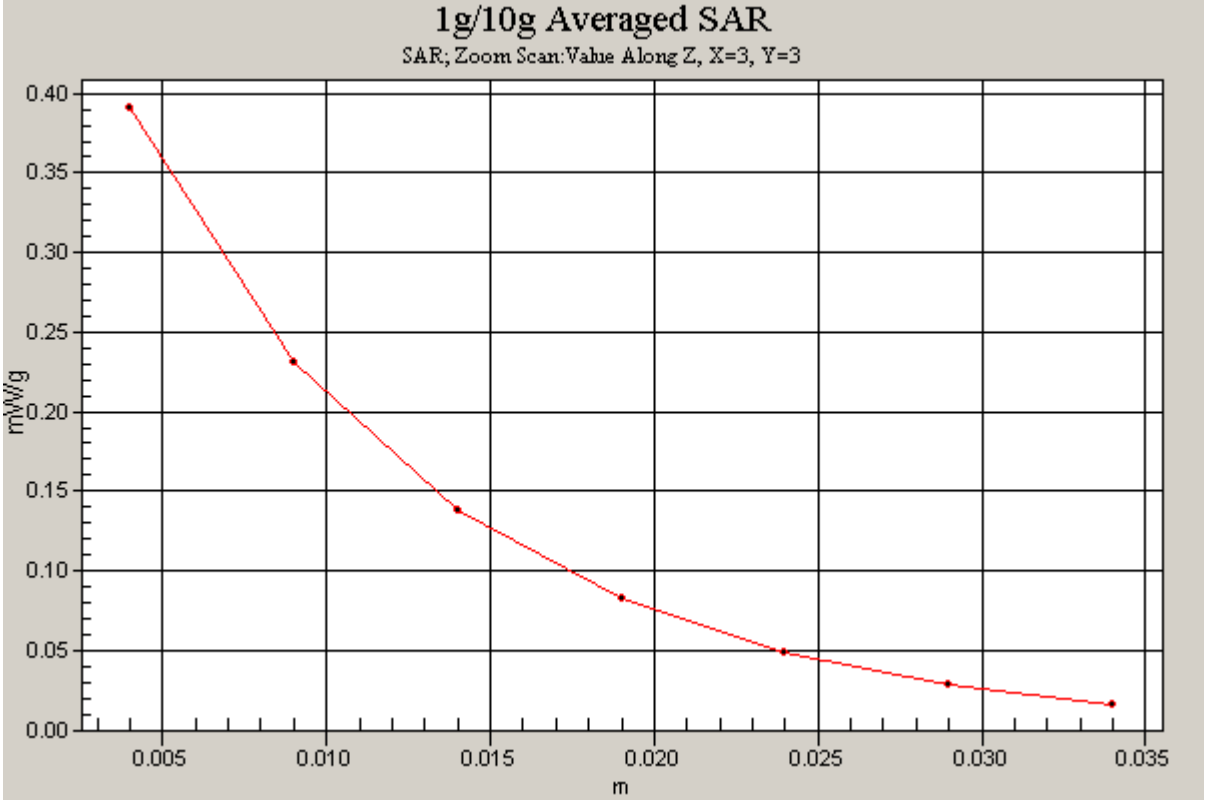


Figure 91 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 Channel 512)

GSM 1900 Towards Phantom High Close

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Phantom High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.073 mW/g

Towards Phantom High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.09 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 0.107 W/kg
SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.043 mW/g
Maximum value of SAR (measured) = 0.073 mW/g

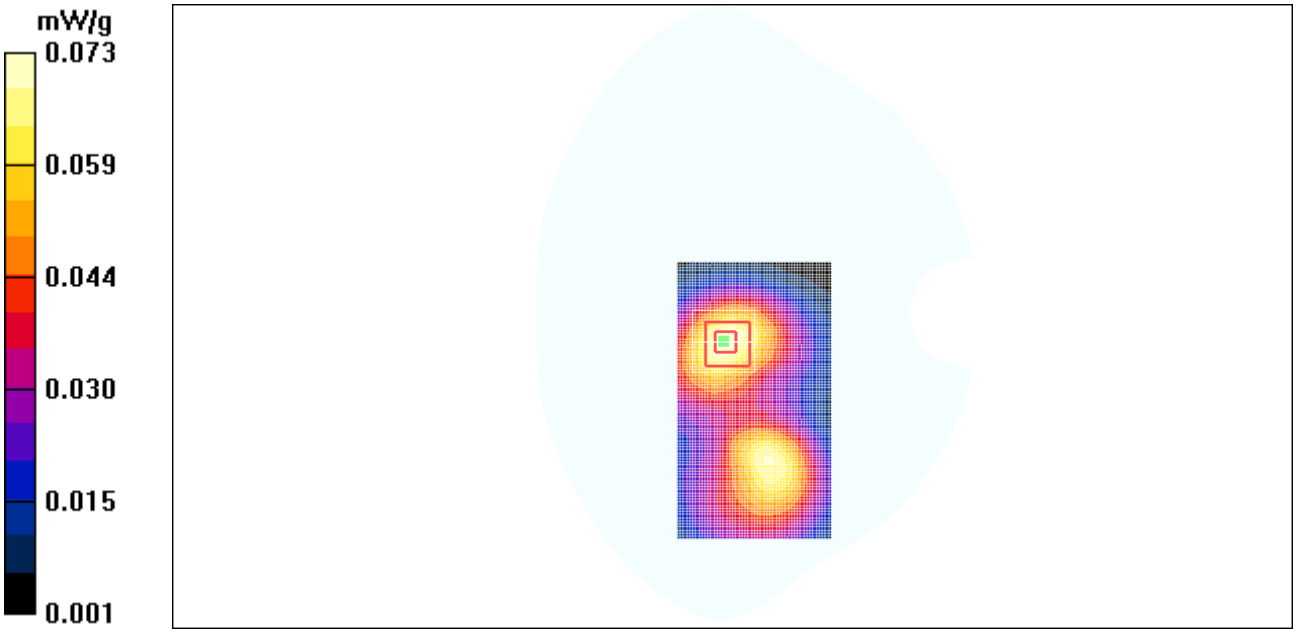


Figure 92 Body, Towards Phantom, Close GSM 1900 Channel 810

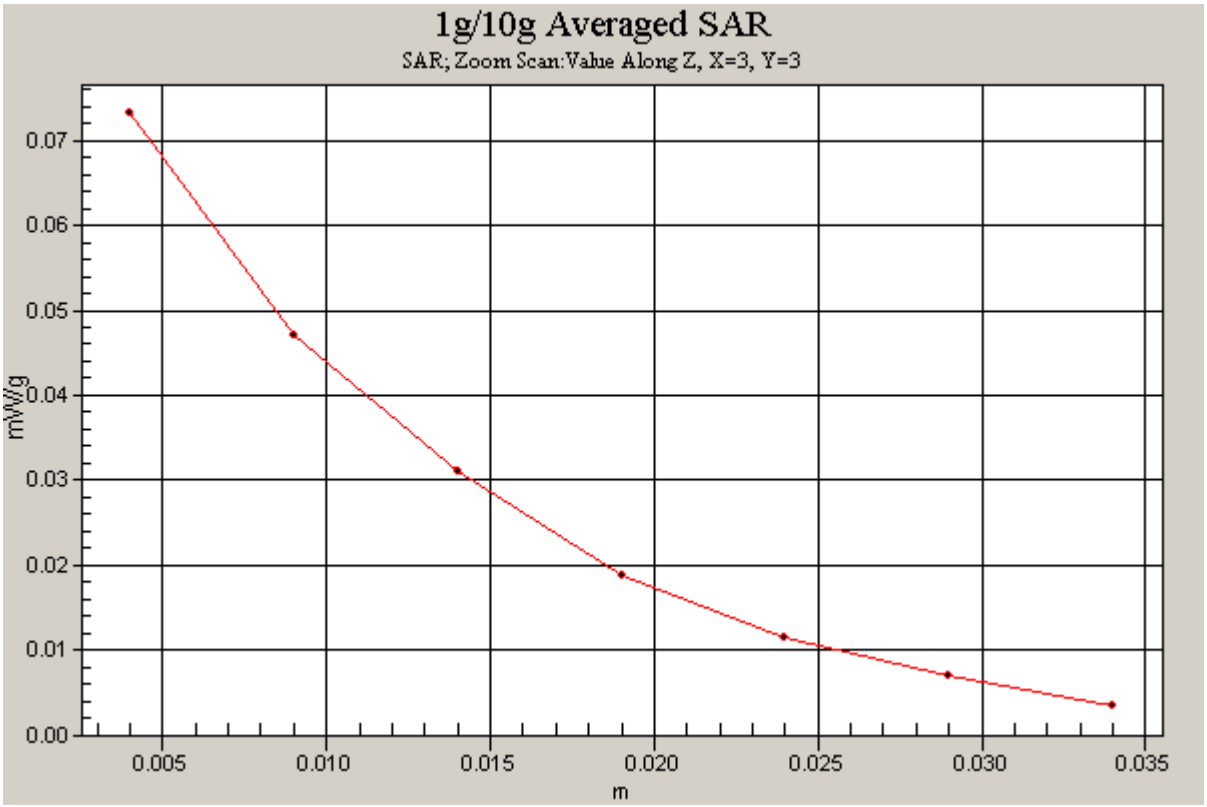


Figure 93 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 Channel 810)

GSM 1900 Towards Phantom Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Phantom Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.068 mW/g

Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.81 V/m; Power Drift = 0.104 dB
Peak SAR (extrapolated) = 0.097 W/kg
SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.040 mW/g
Maximum value of SAR (measured) = 0.068 mW/g

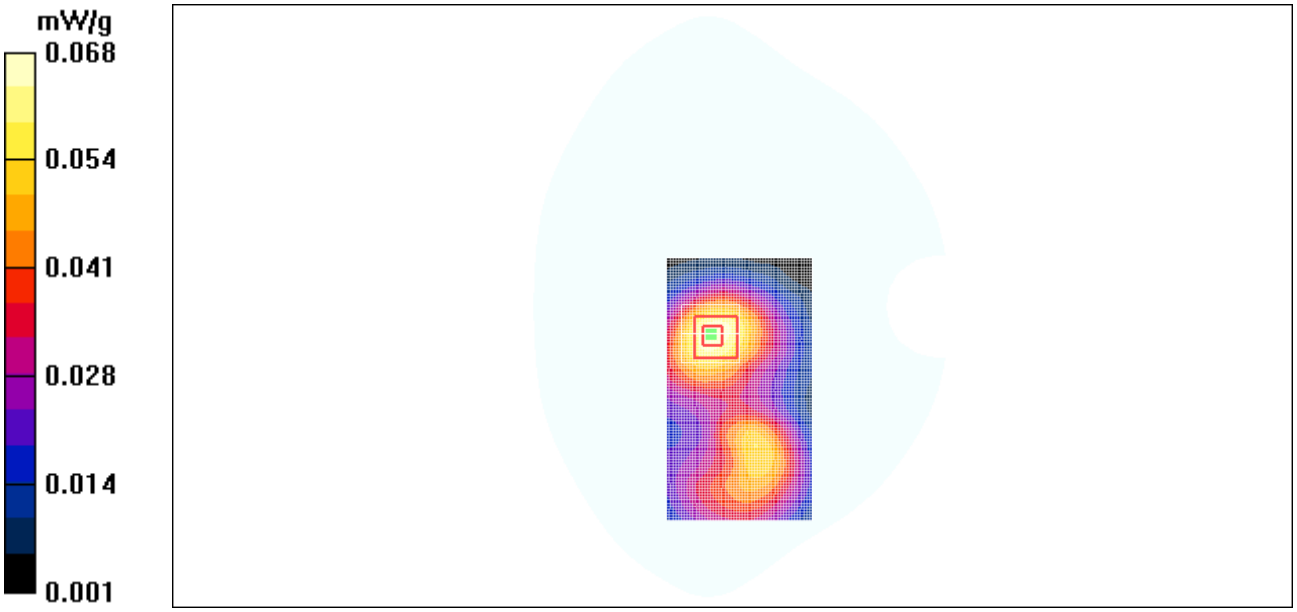


Figure 94 Body, Towards Phantom, Close GSM 1900 Channel 661

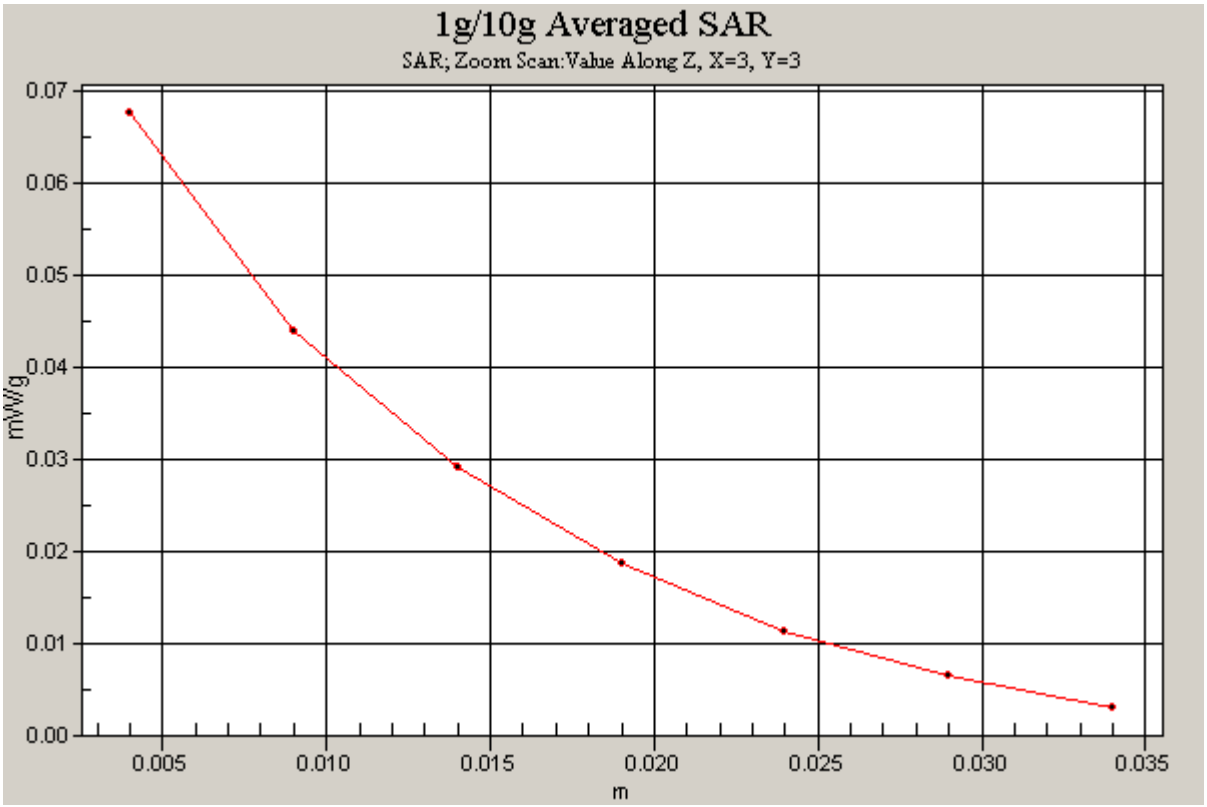


Figure 95 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 Channel 661)

GSM 1900 Towards Phantom Low Close

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.47 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Phantom Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.064 mW/g

Towards Phantom Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.56 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 0.091 W/kg
SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.038 mW/g
Maximum value of SAR (measured) = 0.064 mW/g

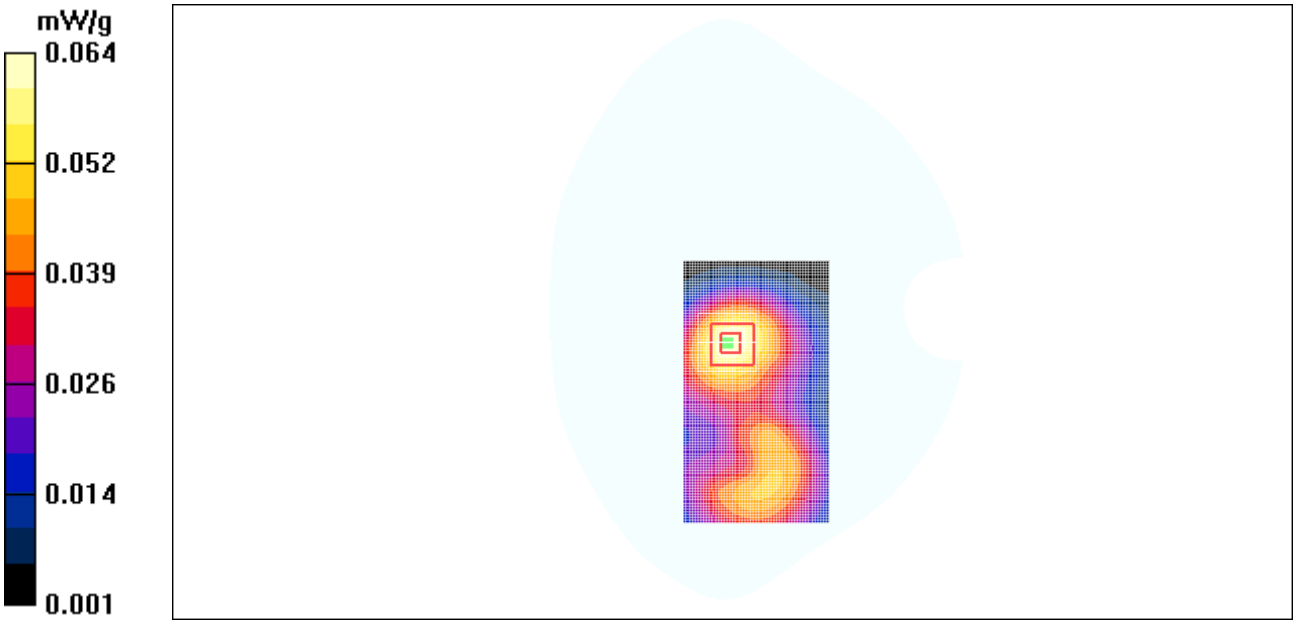


Figure 96 Body, Towards Phantom, Close GSM 1900 Channel 512

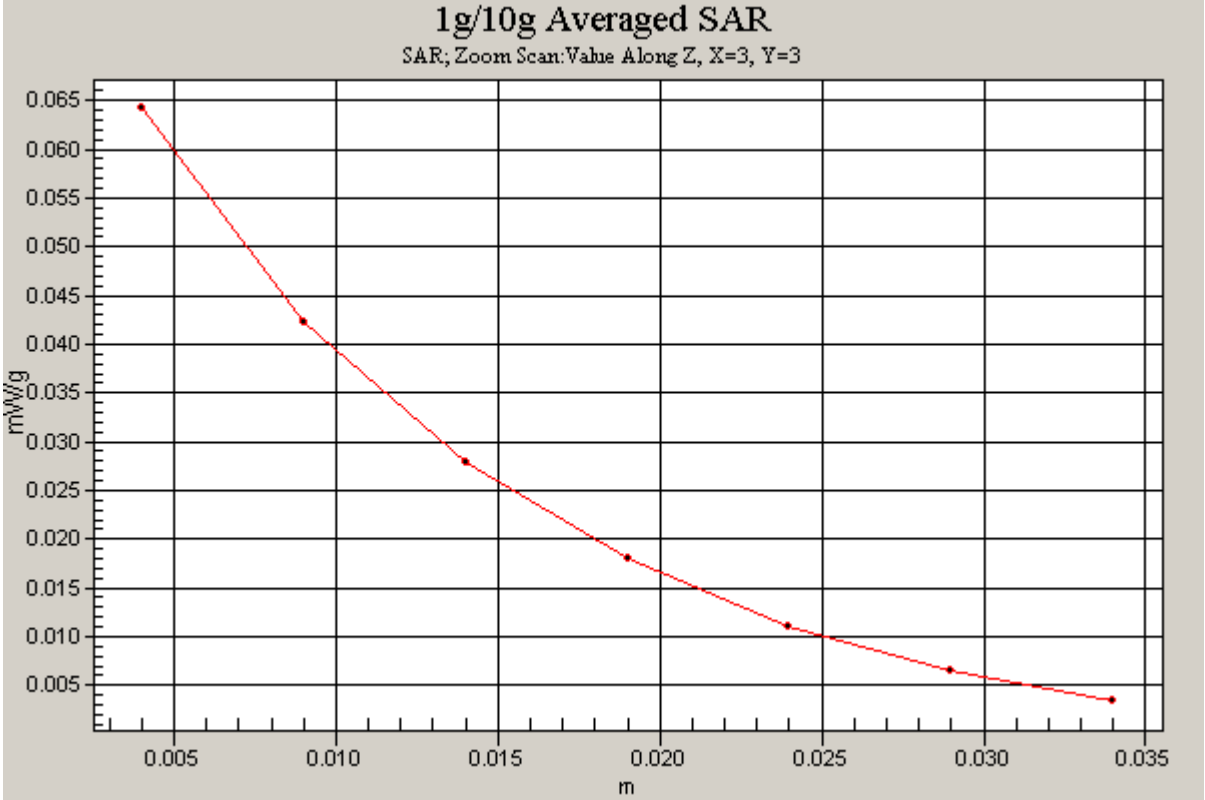


Figure 97 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 Channel 512)

GSM 1900 Earphone Towards Ground High Close

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.401 mW/g

Towards Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.18 V/m; Power Drift = 0.156 dB
Peak SAR (extrapolated) = 0.650 W/kg
SAR(1 g) = 0.358 mW/g; SAR(10 g) = 0.194 mW/g
Maximum value of SAR (measured) = 0.398 mW/g

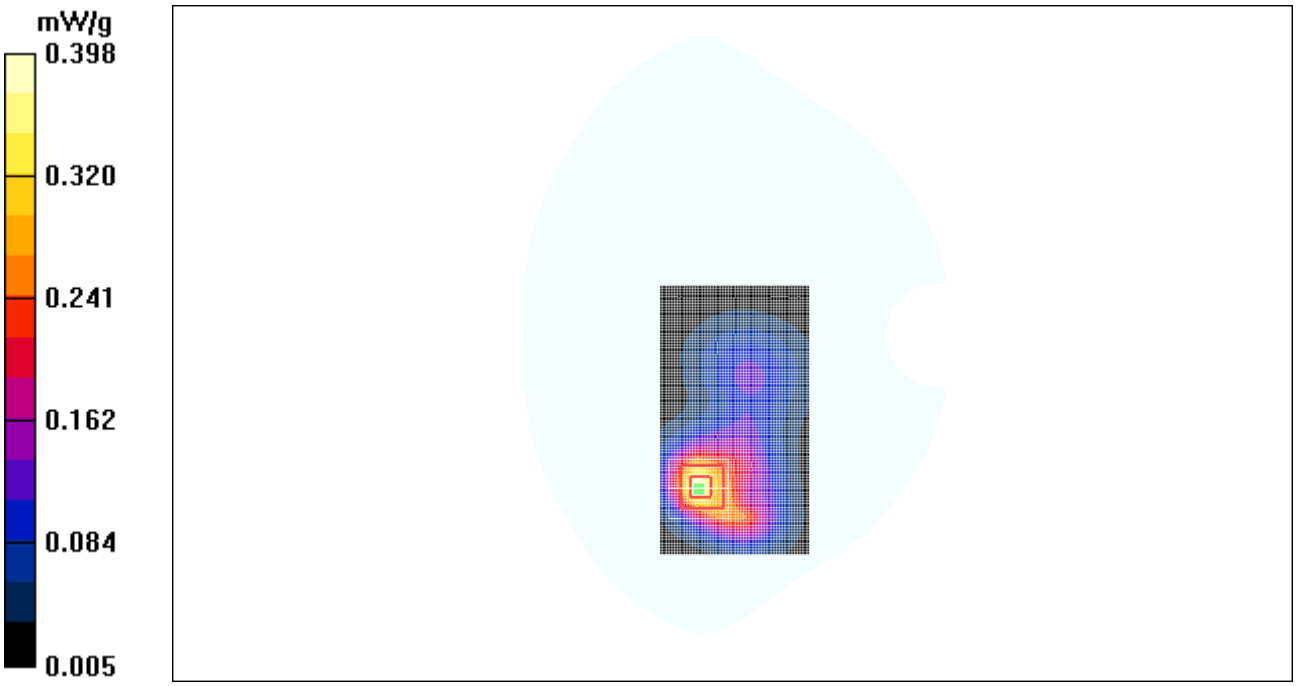


Figure 98 Body with Earphone, Towards Ground, Close GSM 1900, Channel 810

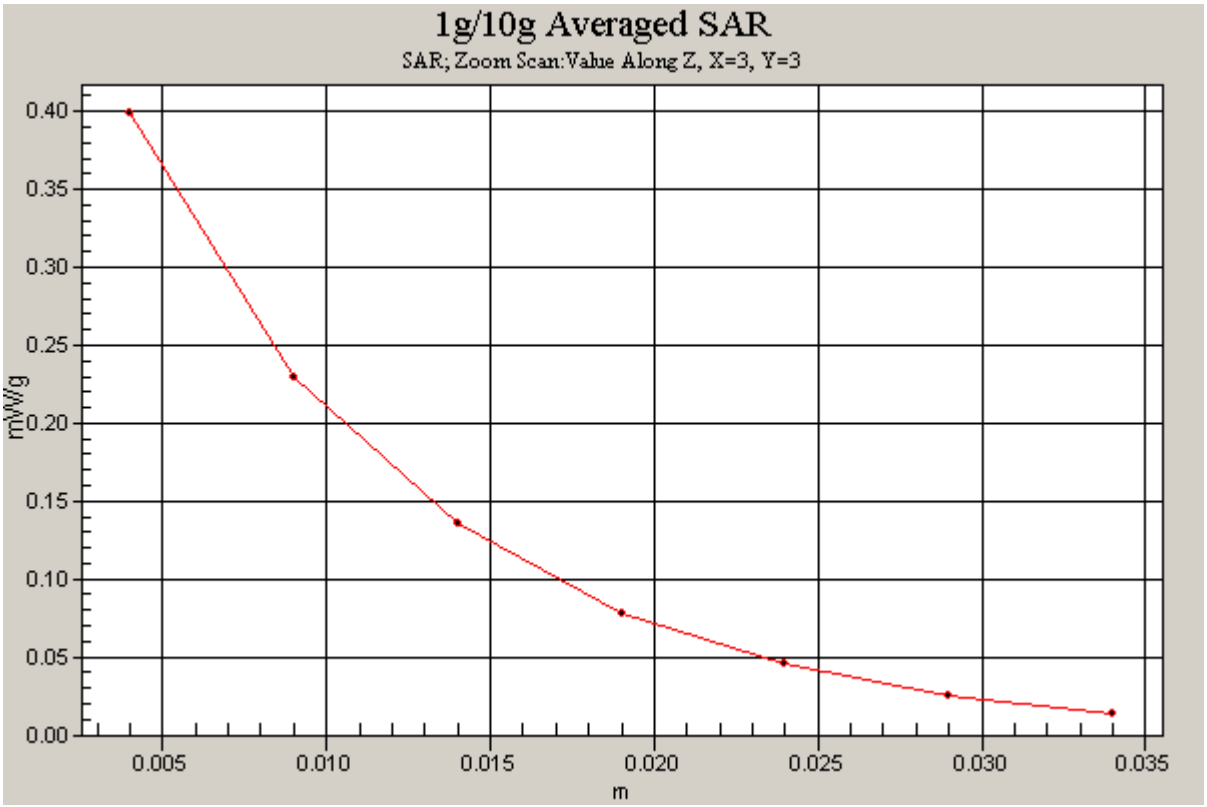


Figure 99 Z-Scan at power reference point (Body with Earphone, Towards Ground, Close GSM 1900, Channel 810)

GSM 1900 Bluetooth Earphone Towards Ground High Close

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.426 mW/g

Towards Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.31 V/m; Power Drift = 0.198 dB
Peak SAR (extrapolated) = 0.685 W/kg
SAR(1 g) = 0.375 mW/g; SAR(10 g) = 0.202 mW/g
Maximum value of SAR (measured) = 0.419 mW/g

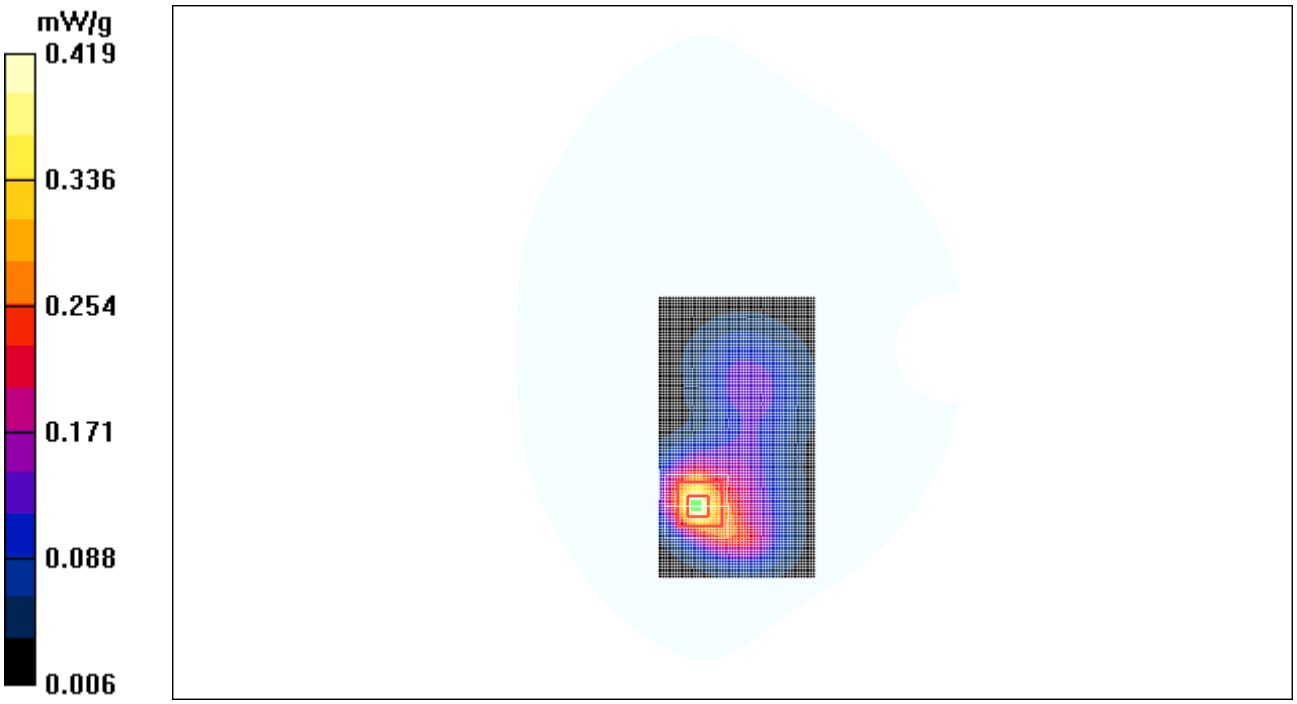


Figure 100 Body with Bluetooth earphone, Towards Ground, Close GSM 1900, Channel 810

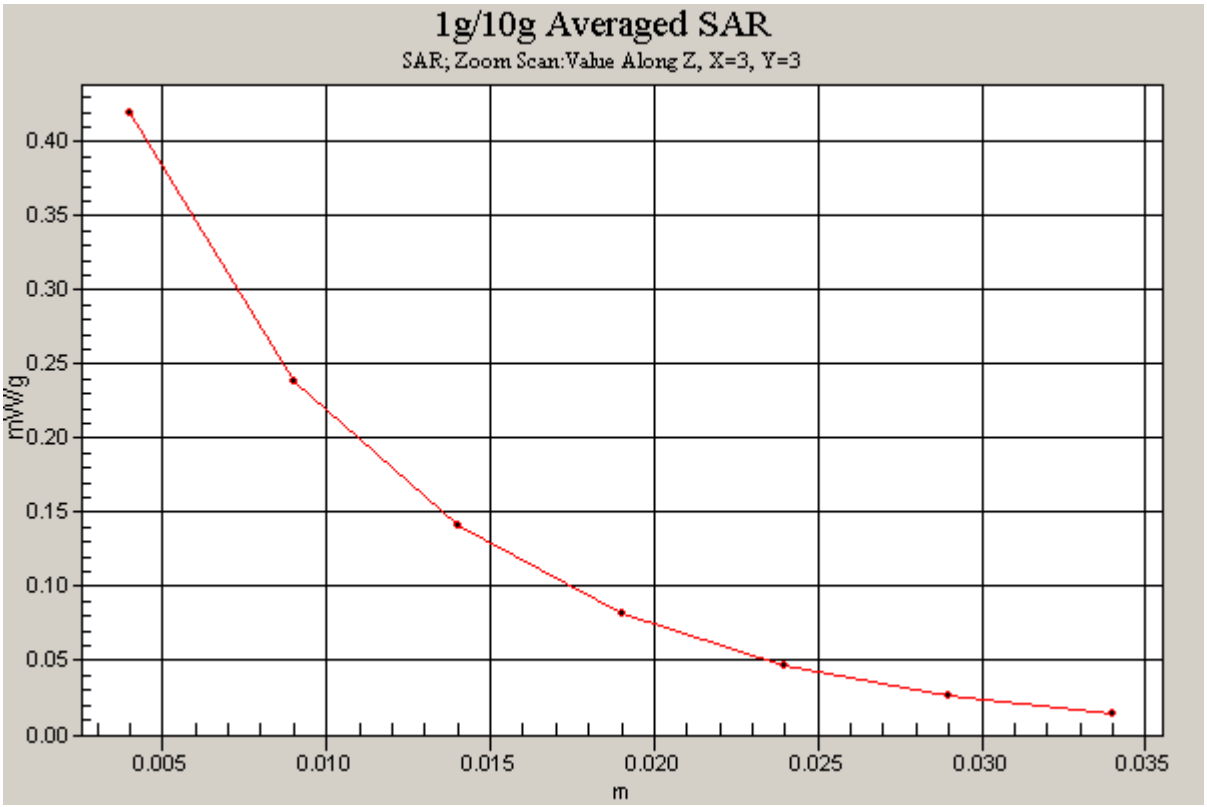


Figure 101 Z-Scan at power reference point (Body with Bluetooth earphone, Towards Ground, Close GSM 1900, Channel 810)

GSM 1900 GPRS Towards Ground High Close

Communication System: GSM 1900+GPRS(2Up); Frequency: 1909.8 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.634 mW/g

Towards Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.2 V/m; Power Drift = -0.006 dB
Peak SAR (extrapolated) = 0.982 W/kg
SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.298 mW/g
Maximum value of SAR (measured) = 0.611 mW/g

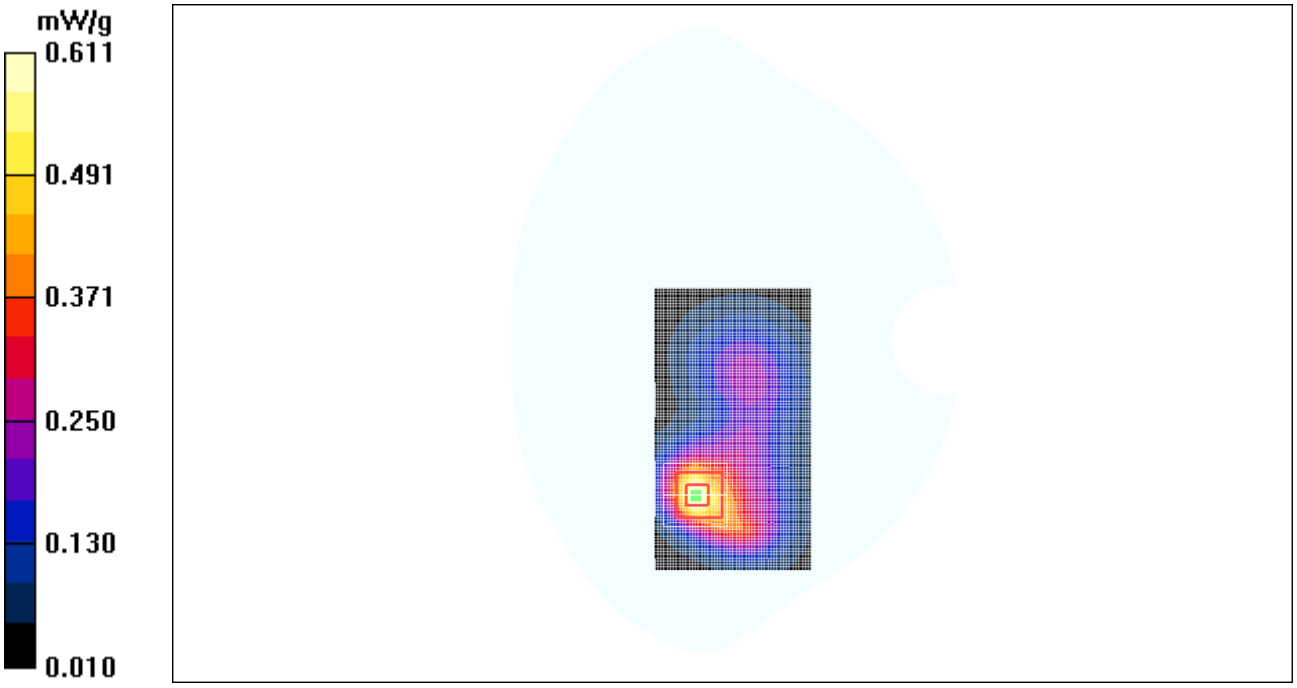


Figure 102 Body, Towards Ground, Close GSM 1900 GPRS, Channel 810

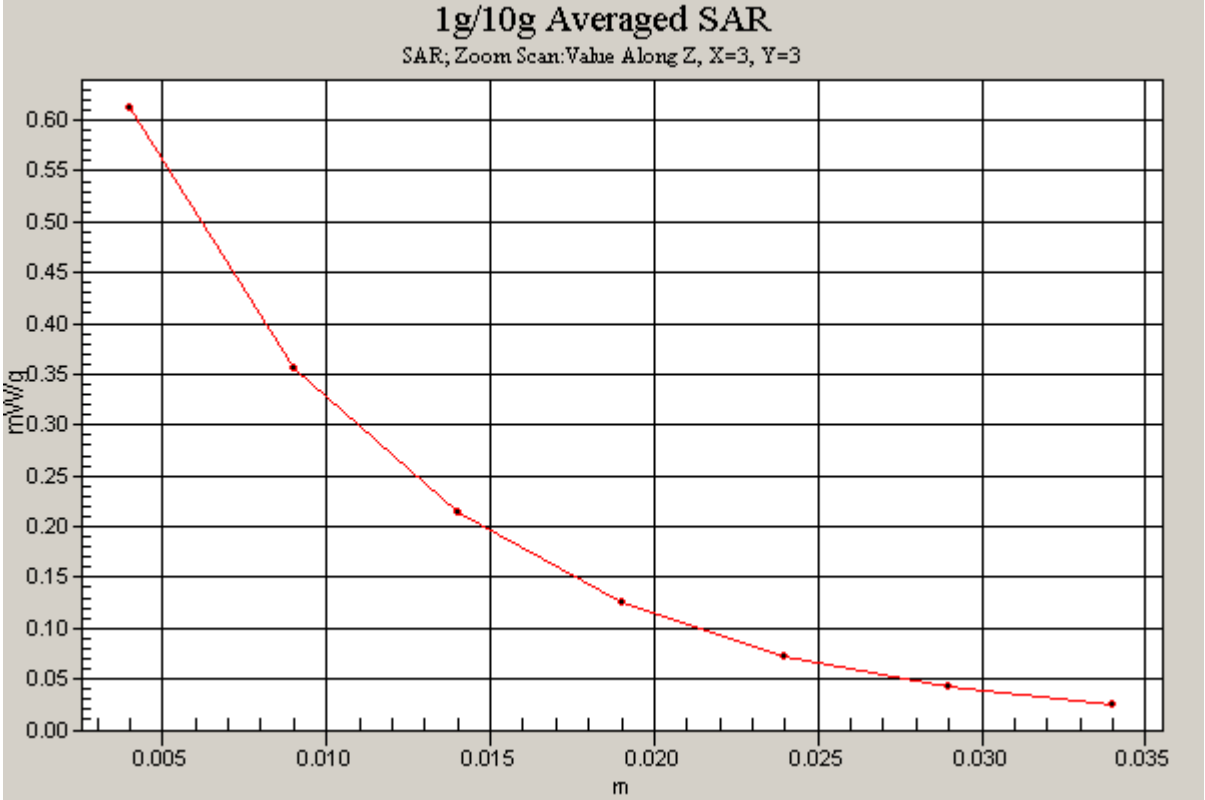


Figure 103 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 GPRS, Channel 810)

GSM 1900 GPRS Towards Ground Middle Close

Communication System: GSM 1900+GPRS(2Up); Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.570 mW/g

Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.7 V/m; Power Drift = 0.002 dB
Peak SAR (extrapolated) = 0.879 W/kg
SAR(1 g) = 0.496 mW/g; SAR(10 g) = 0.270 mW/g
Maximum value of SAR (measured) = 0.549 mW/g

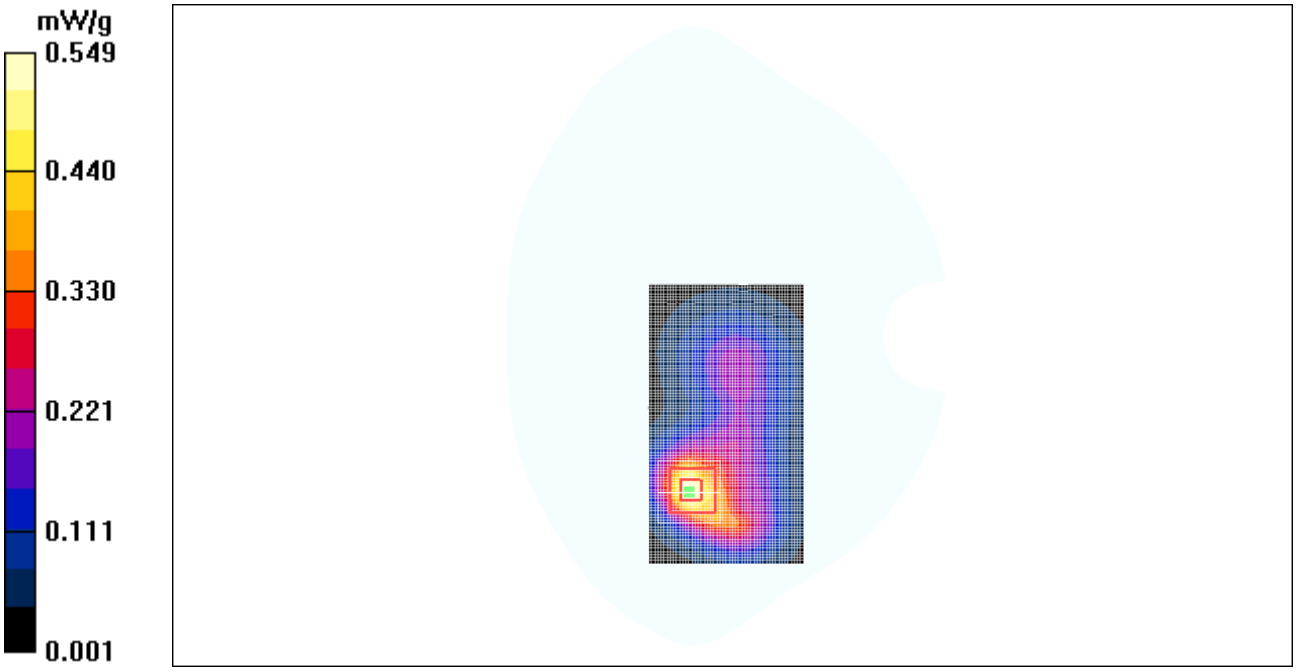


Figure 104 Body, Towards Ground, Close GSM 1900 GPRS Channel 661

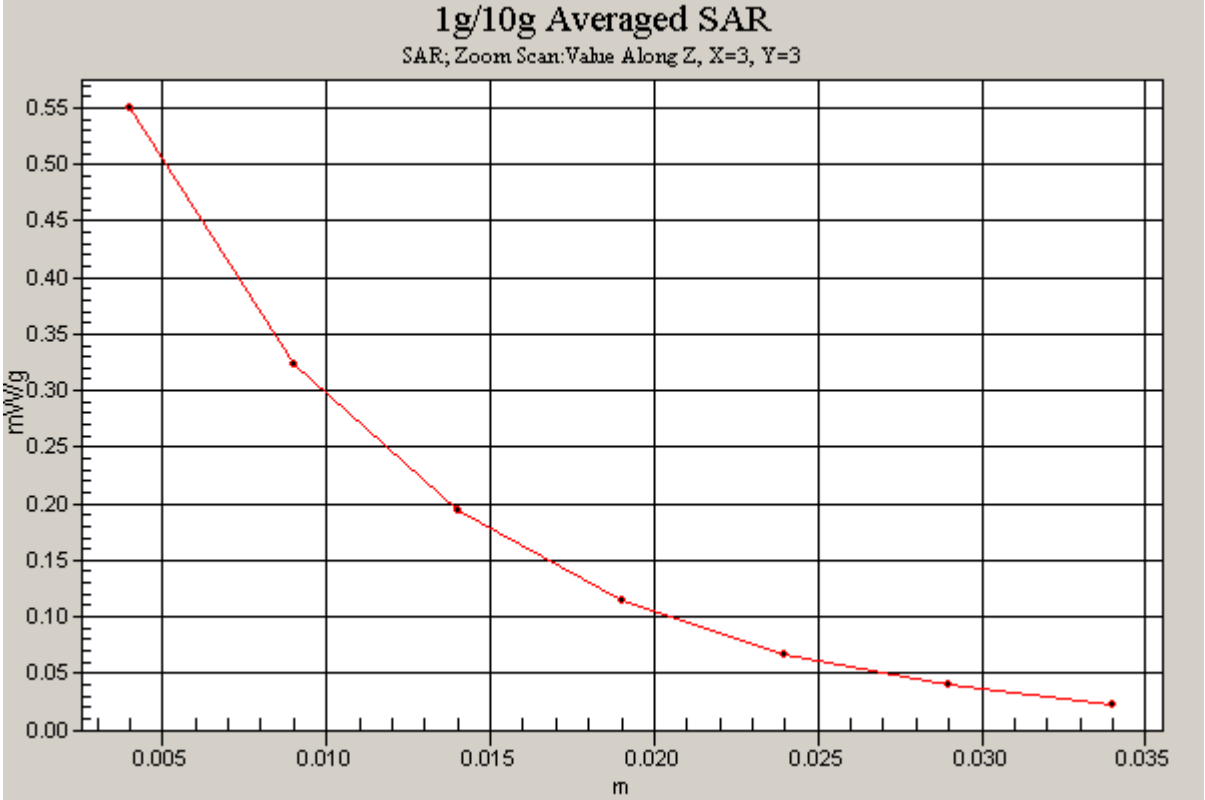


Figure 105 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 GPRS Channel 661)

GSM 1900 GPRS Towards Ground Low Close

Communication System: GSM 1900+GPRS(2Up); Frequency: 1850.2 MHz;Duty Cycle: 1:4
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.47 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.581 mW/g

Towards Ground Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.6 V/m; Power Drift = 0.050 dB
Peak SAR (extrapolated) = 0.893 W/kg
SAR(1 g) = 0.507 mW/g; SAR(10 g) = 0.278 mW/g
Maximum value of SAR (measured) = 0.561 mW/g

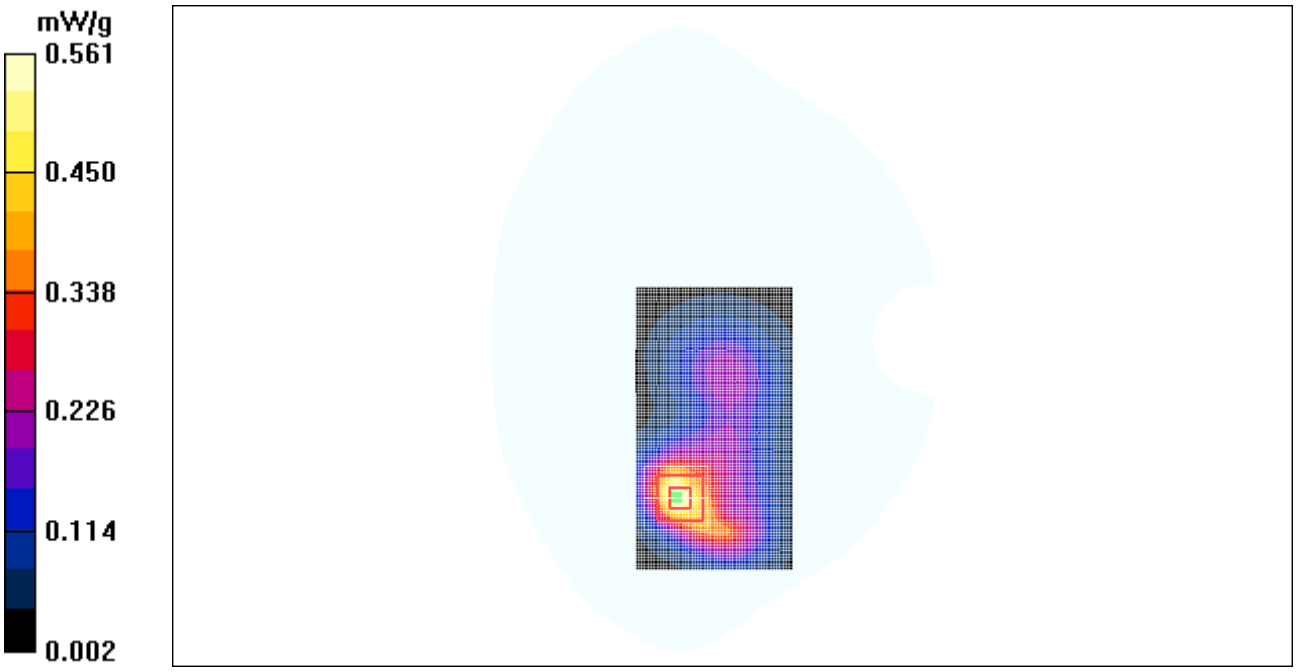


Figure 106 Body, Towards Ground, Close GSM 1900 GPRS Channel 512

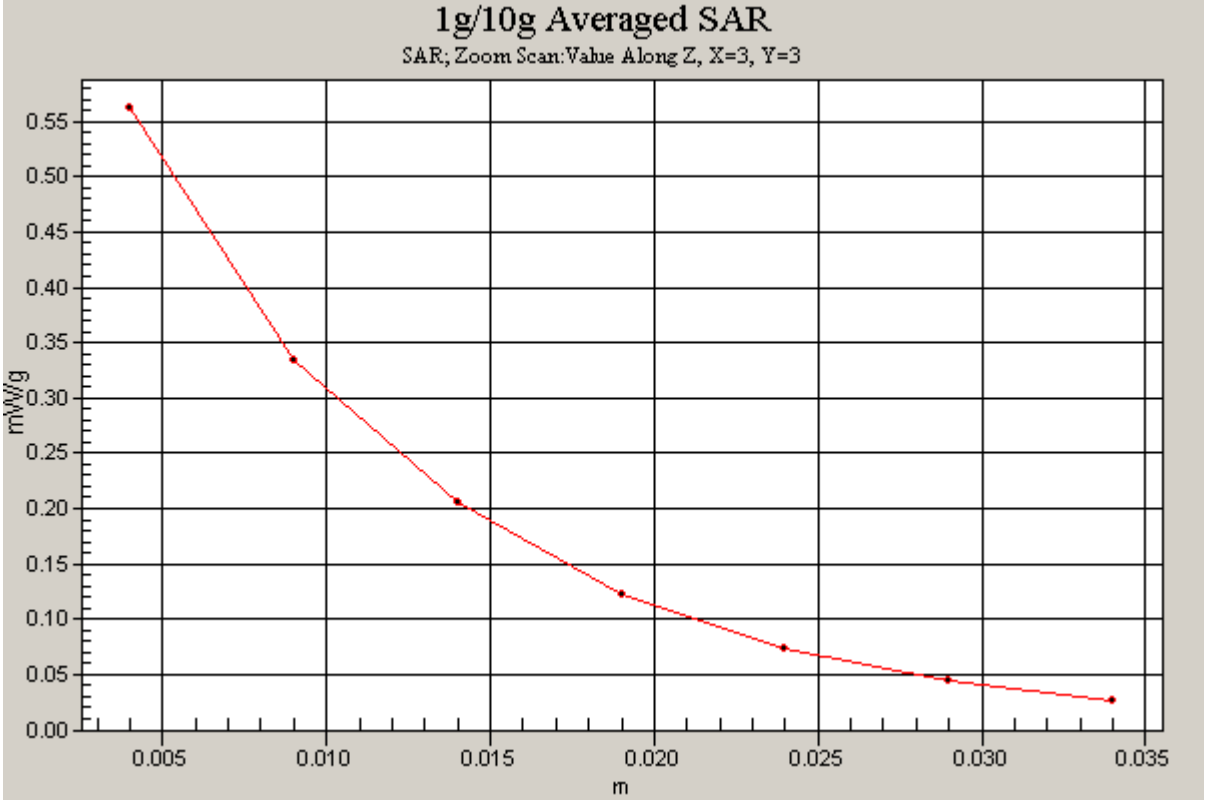


Figure 107 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 GPRS Channel 512)

GSM 1900 GPRS Towards Phantom High Close

Communication System: GSM 1900+GPRS(2Up); Frequency: 1909.8 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Phantom High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.135 mW/g

Towards Phantom High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.51 V/m; Power Drift = -0.107 dB
Peak SAR (extrapolated) = 0.296 W/kg
SAR(1 g) = 0.127 mW/g; SAR(10 g) = 0.080 mW/g
Maximum value of SAR (measured) = 0.133 mW/g

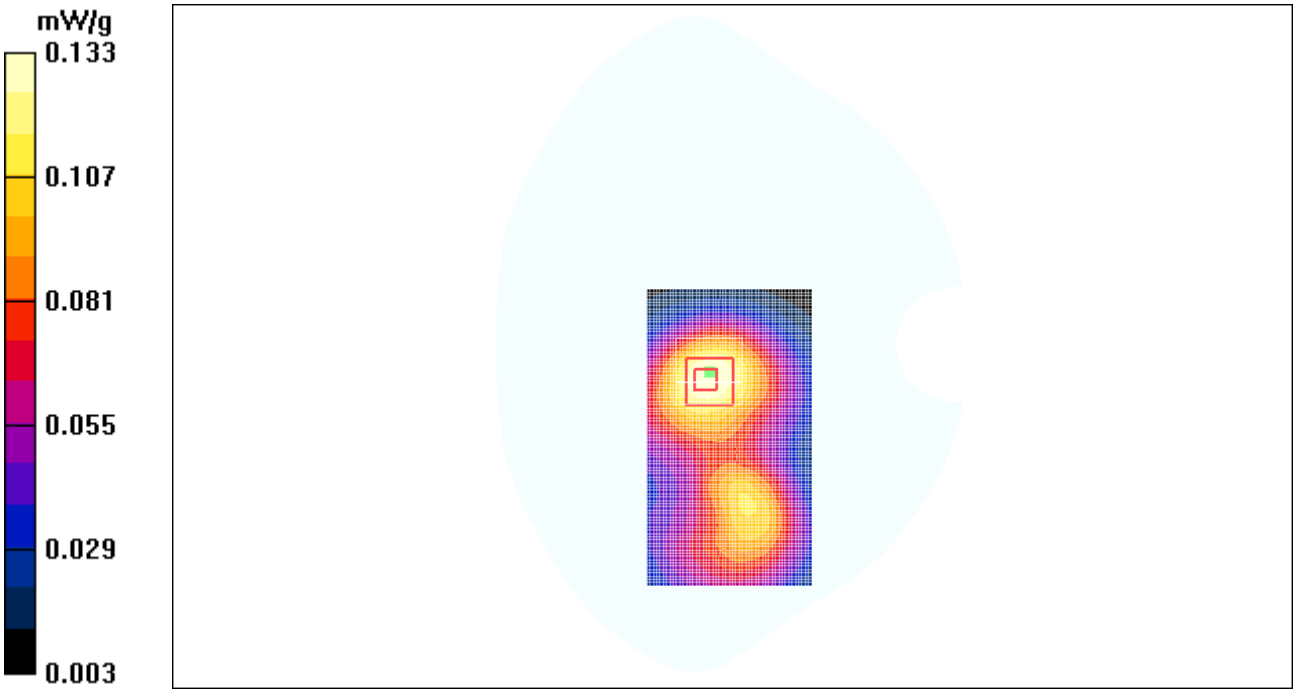


Figure 108 Body, Towards Phantom, Close GSM 1900 GPRS, Channel 810

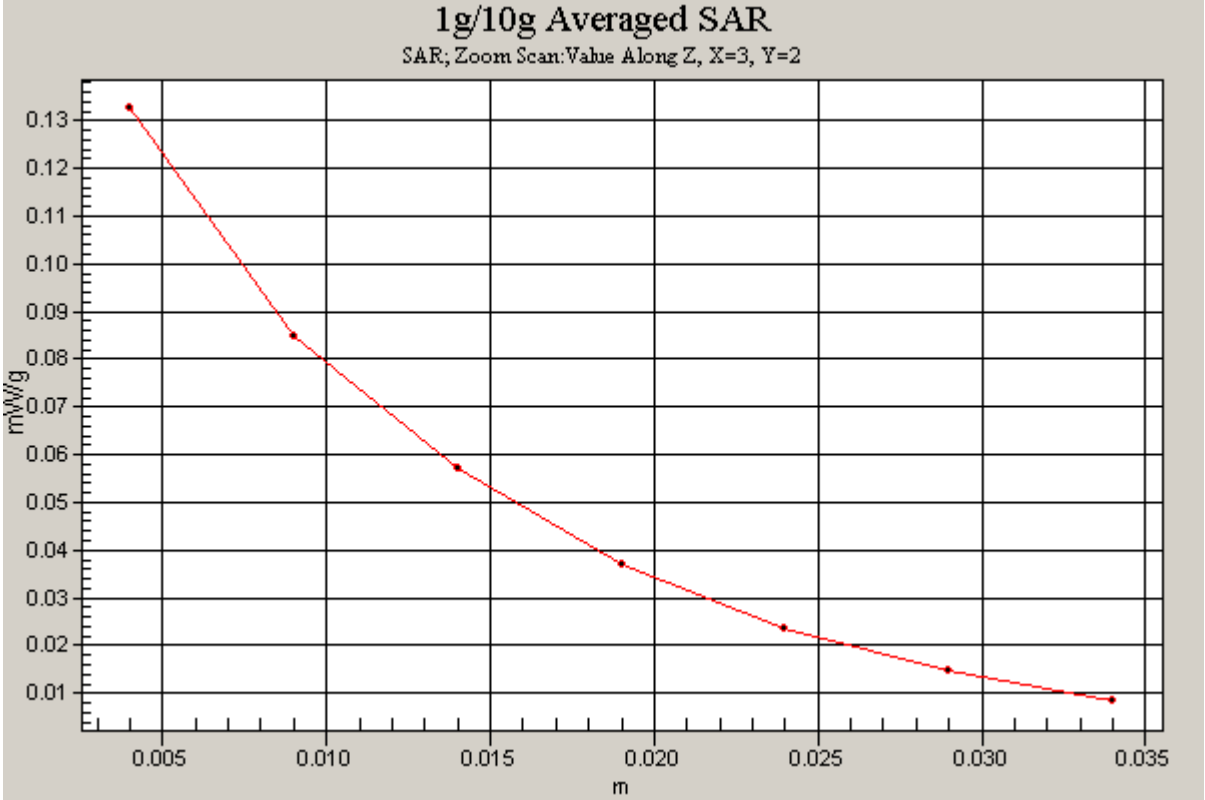


Figure 109 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 GPRS, Channel 810)

GSM 1900 GPRS Towards Phantom Middle Close

Communication System: GSM 1900+GPRS(2Up); Frequency: 1880 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Phantom Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.130 mW/g

Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.35 V/m; Power Drift = -0.075 dB
Peak SAR (extrapolated) = 0.186 W/kg
SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.077 mW/g
Maximum value of SAR (measured) = 0.129 mW/g

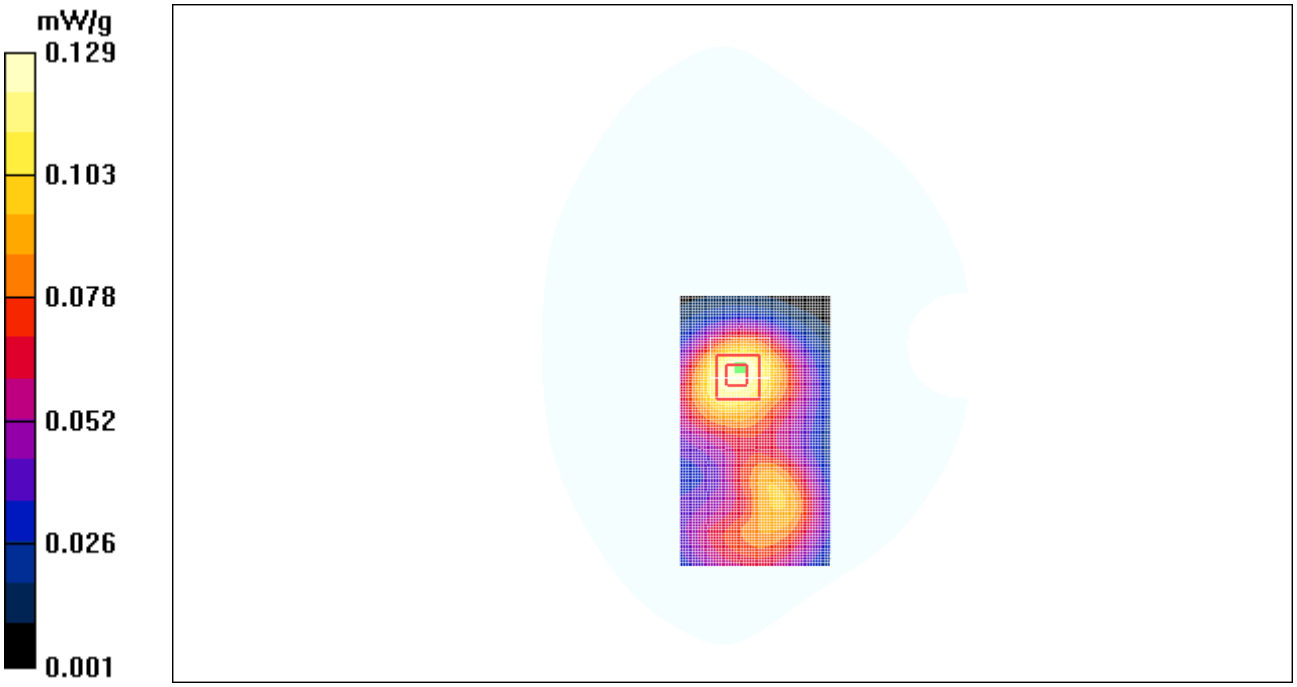


Figure 110 Body, Towards Phantom, Close GSM 1900 GPRS Channel 661

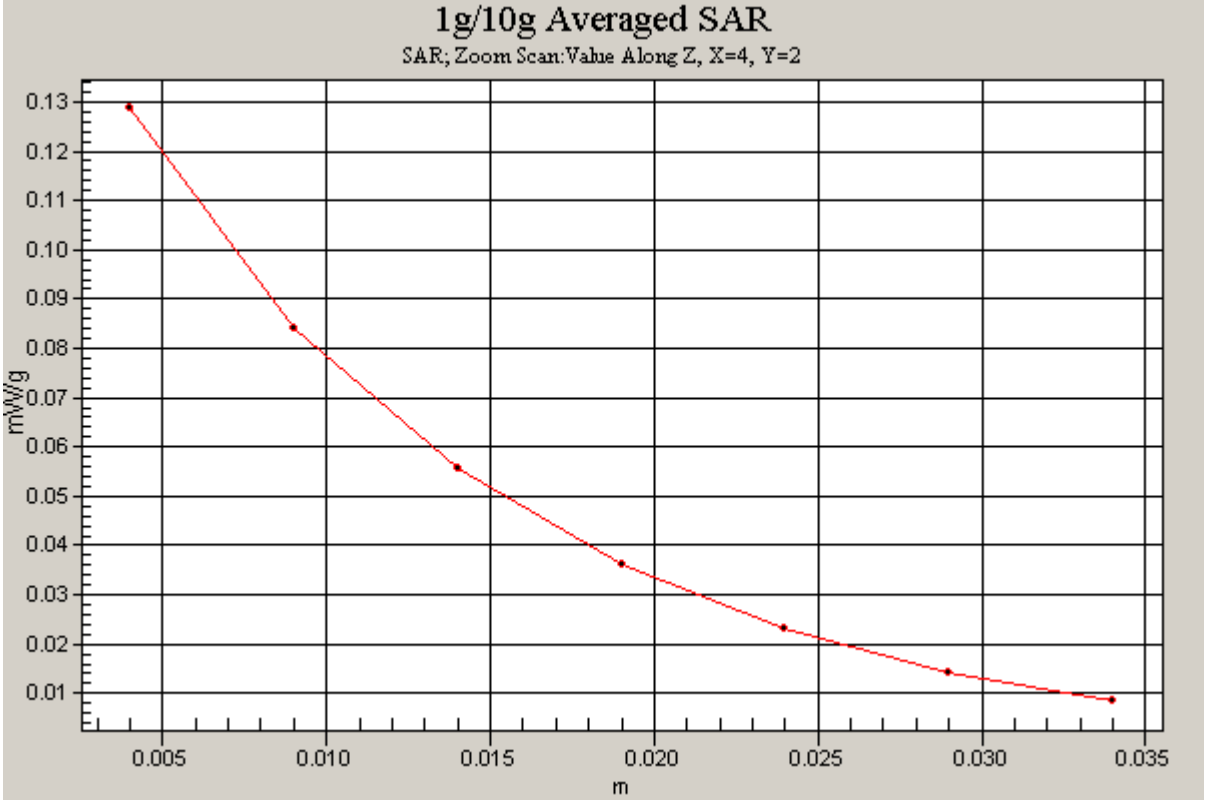


Figure 111 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 GPRS Channel 661)

GSM 1900 GPRS Towards Phantom Low Close

Communication System: GSM 1900+GPRS(2Up); Frequency: 1850.2 MHz;Duty Cycle: 1:4
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.47 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Phantom Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.123 mW/g

Towards Phantom Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.01 V/m; Power Drift = -0.027 dB
Peak SAR (extrapolated) = 0.174 W/kg
SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.075 mW/g
Maximum value of SAR (measured) = 0.123 mW/g

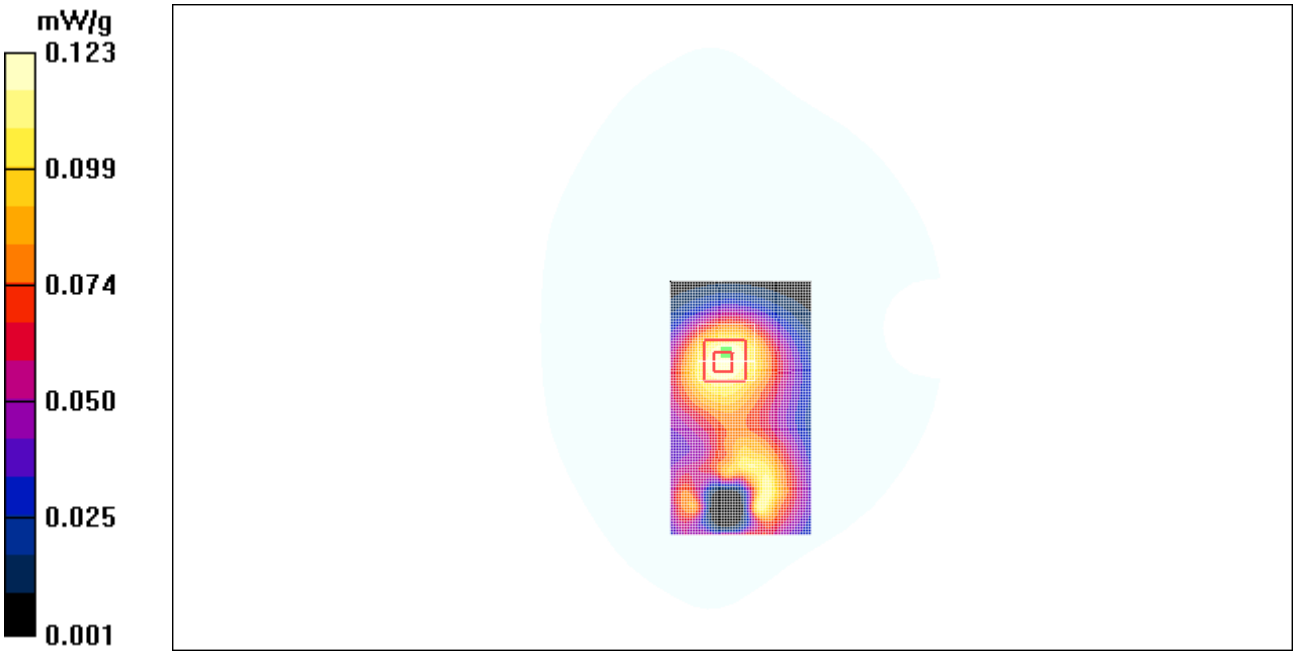


Figure 112 Body, Towards Phantom, Close GSM 1900 GPRS Channel 512

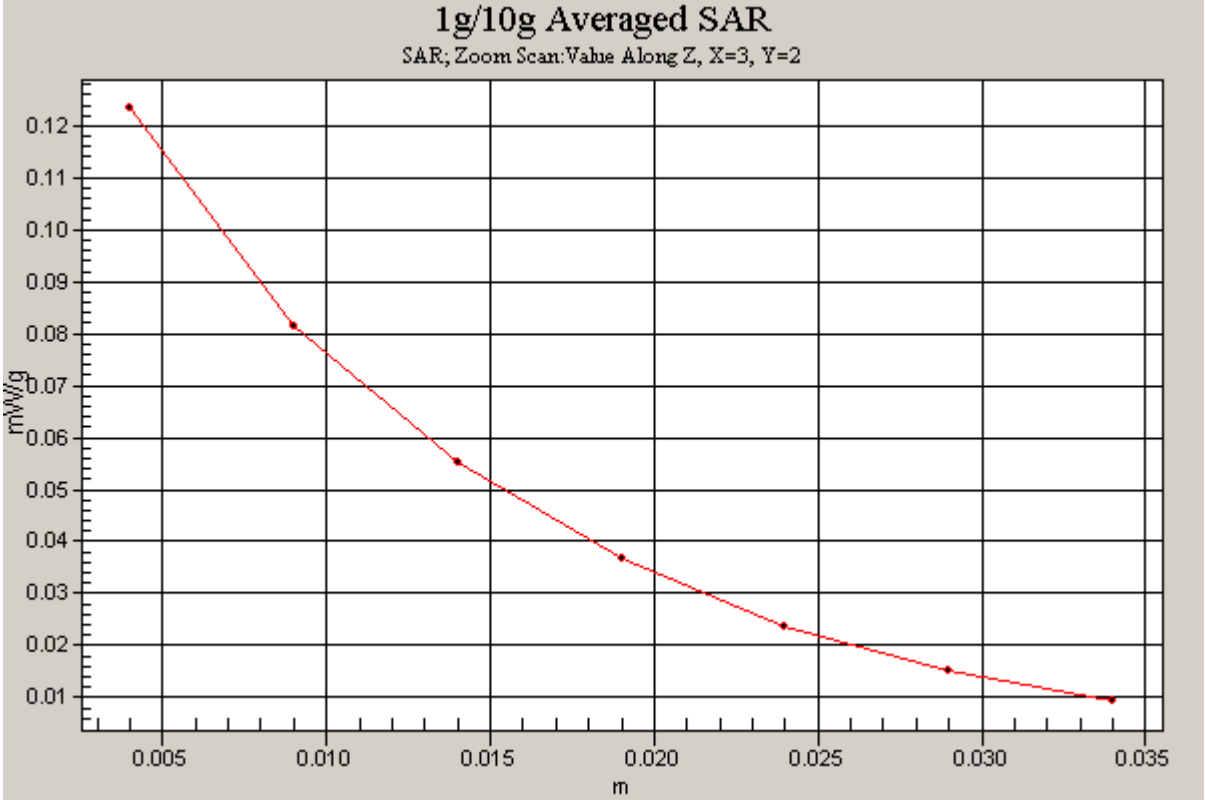


Figure 113 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 GPRS Channel 512)

GSM 1900 EGPRS Towards Ground High Close

Communication System: GSM 1900+EGPRS(2Up); Frequency: 1909.8 MHz;Duty Cycle: 1:4
Medium parameters used: f = 1910 MHz; σ = 1.52 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE4 Sn452;
Towards Ground High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.326 mW/g

Towards Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.87 V/m; Power Drift = -0.124 dB
Peak SAR (extrapolated) = 0.522 W/kg
SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.159 mW/g
Maximum value of SAR (measured) = 0.327 mW/g

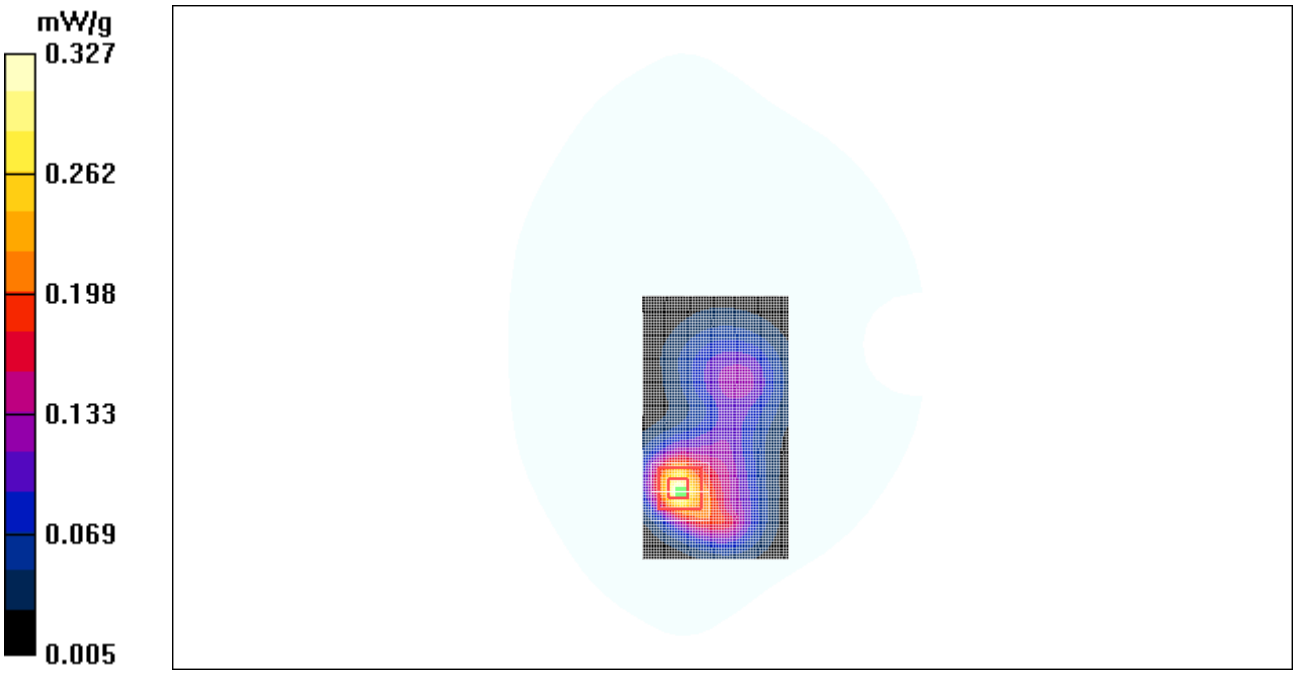


Figure 114 Body, Towards Ground, Close GSM 1900 EGPRS Channel 810

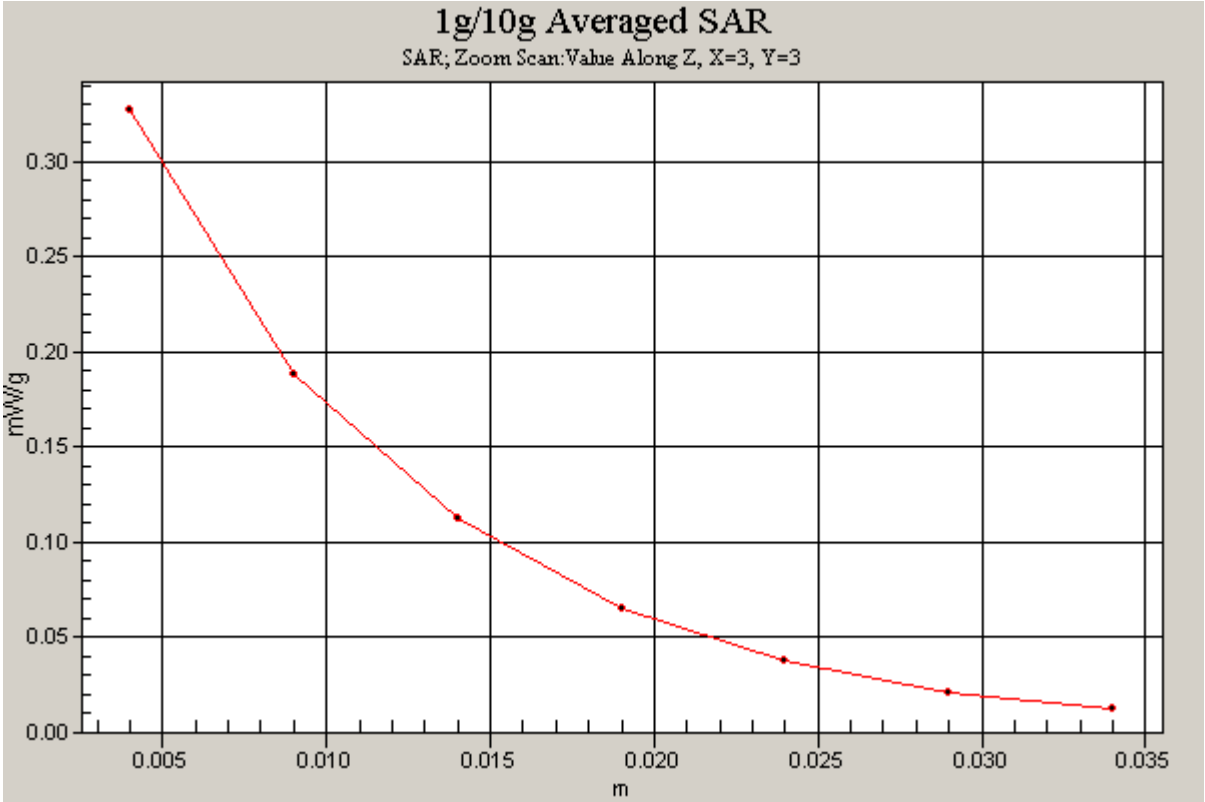


Figure 115 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 EGPRS Channel 810)

WCDMA Band V Left Cheek High Open

Communication System: WCDMA Band V; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 847 MHz; σ = 0.947 mho/m; ε_r = 42.8; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Cheek High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.518 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.0 V/m; Power Drift = 0.107 dB
Peak SAR (extrapolated) = 0.632 W/kg
SAR(1 g) = 0.490 mW/g; SAR(10 g) = 0.362 mW/g
Maximum value of SAR (measured) = 0.522 mW/g

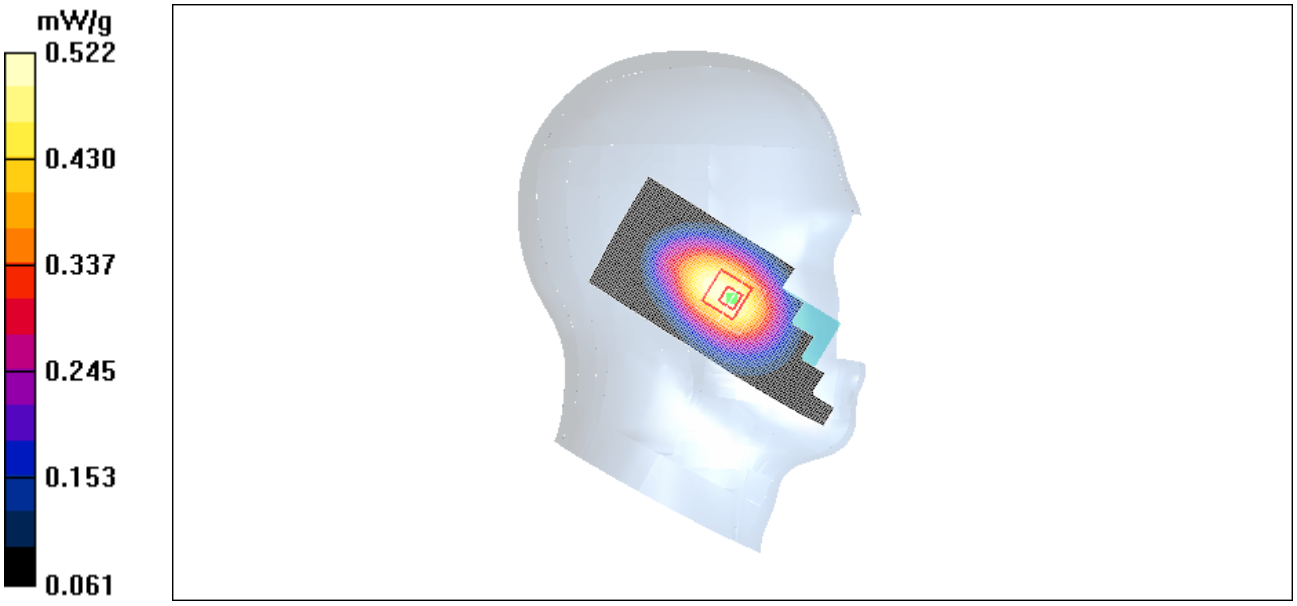


Figure 116 Left Hand Touch Cheek Open WCDMA Band V Channel 4233

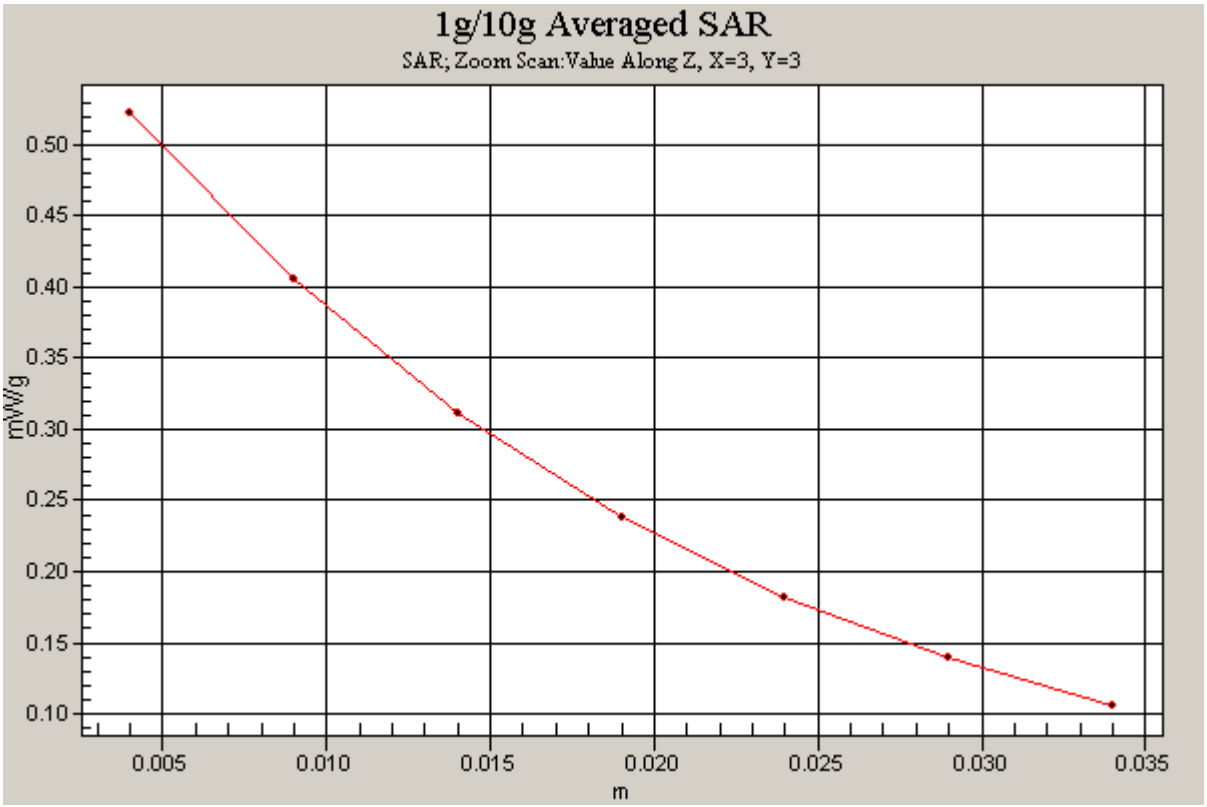


Figure 117 Z-Scan at power reference point (Left Hand Touch Cheek Open WCDMA Band V Channel 4233)

WCDMA Band V Left Cheek Middle Open

Communication System: WCDMA Band V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.936 mho/m; ε_r = 42.9; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Cheek Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.484 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.8 V/m; Power Drift = 0.042 dB
Peak SAR (extrapolated) = 0.585 W/kg
SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.338 mW/g
Maximum value of SAR (measured) = 0.483 mW/g

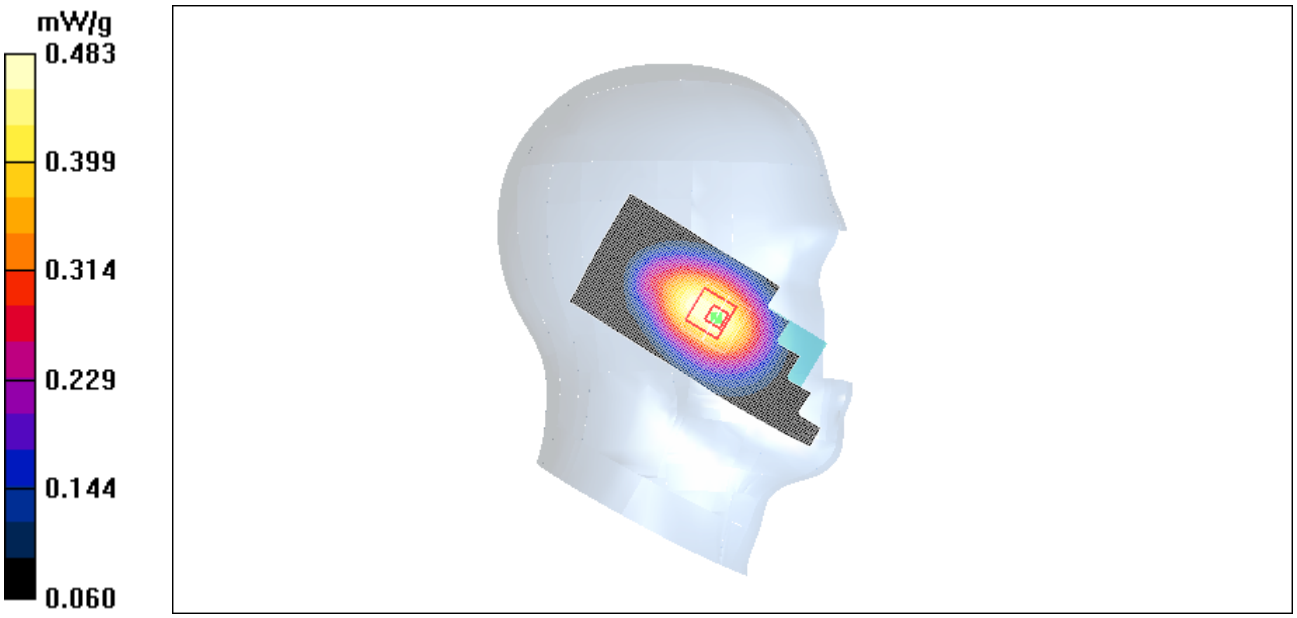


Figure 118 Left Hand Touch Cheek Open WCDMA Band V Channel 4182

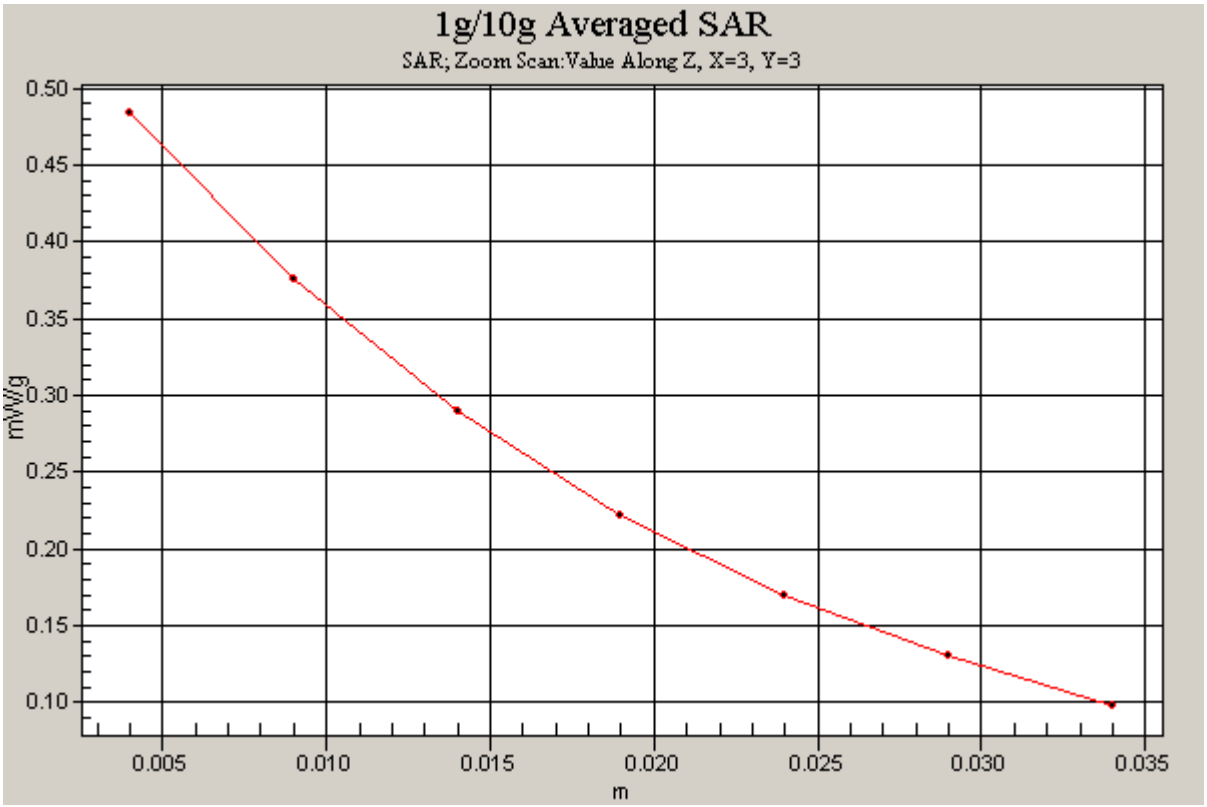


Figure 119 Z-Scan at power reference point (Left Hand Touch Cheek Open WCDMA Band V Channel 4182)

WCDMA Band V Left Cheek Low Open

Communication System: WCDMA Band V; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.923 mho/m; ε_r = 43.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Cheek Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.415 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.6 V/m; Power Drift = 0.011 dB
Peak SAR (extrapolated) = 0.492 W/kg
SAR(1 g) = 0.382 mW/g; SAR(10 g) = 0.285 mW/g
Maximum value of SAR (measured) = 0.406 mW/g

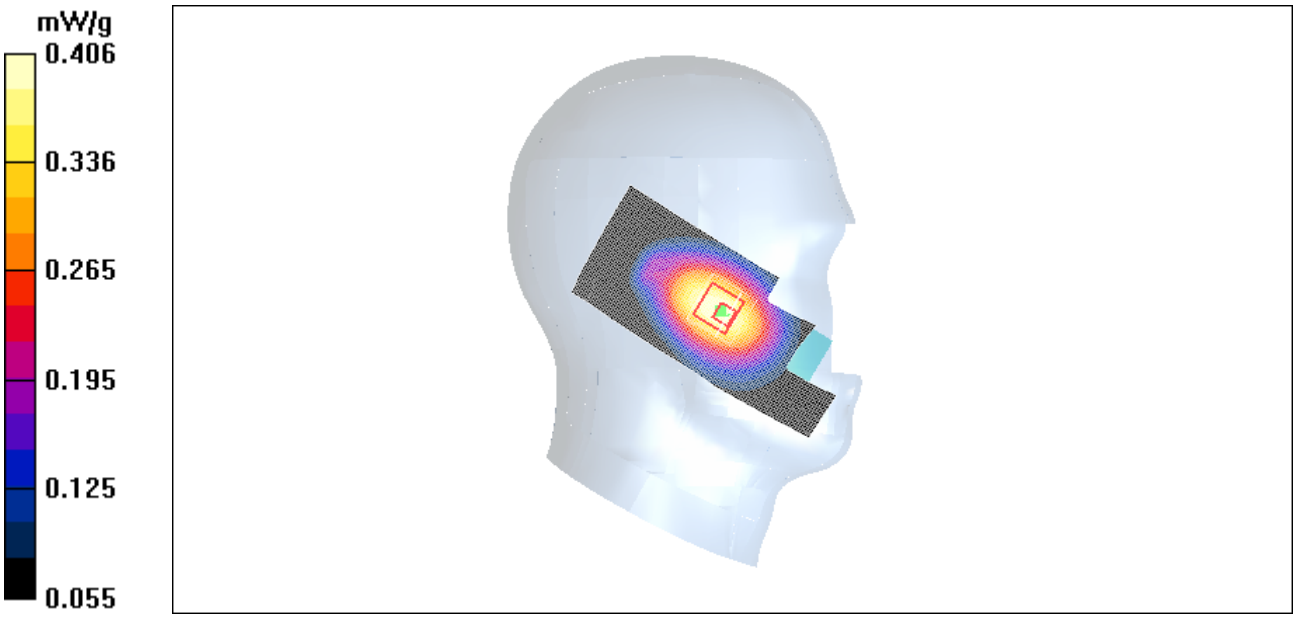


Figure 120 Left Hand Touch Cheek Open WCDMA Band V Channel 4132

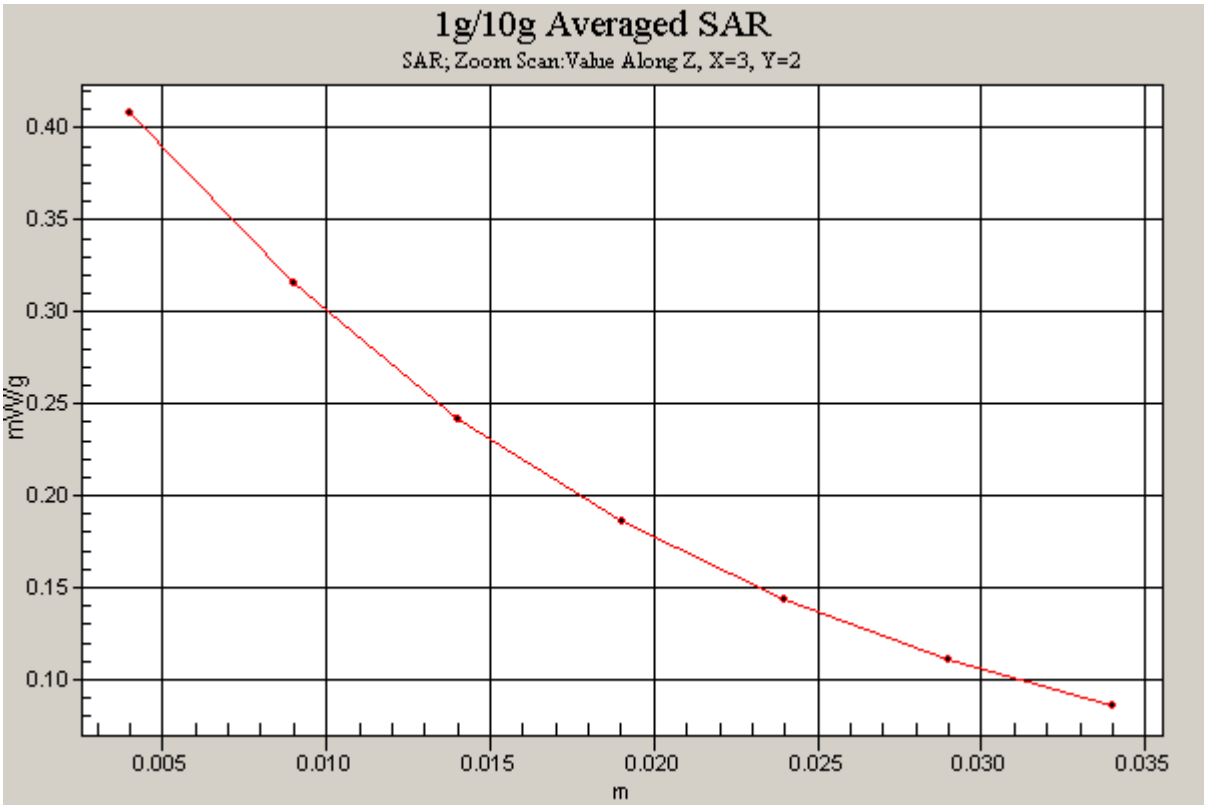


Figure 121 Z-Scan at power reference point (Left Hand Touch Cheek Open WCDMA Band V Channel 4132)

WCDMA Band V Left Tilt High Open

Communication System: WCDMA Band V; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 847 MHz; σ = 0.947 mho/m; ε_r = 42.8; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Tilt High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.301 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.2 V/m; Power Drift = -0.016 dB
Peak SAR (extrapolated) = 0.378 W/kg
SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.206 mW/g
Maximum value of SAR (measured) = 0.304 mW/g

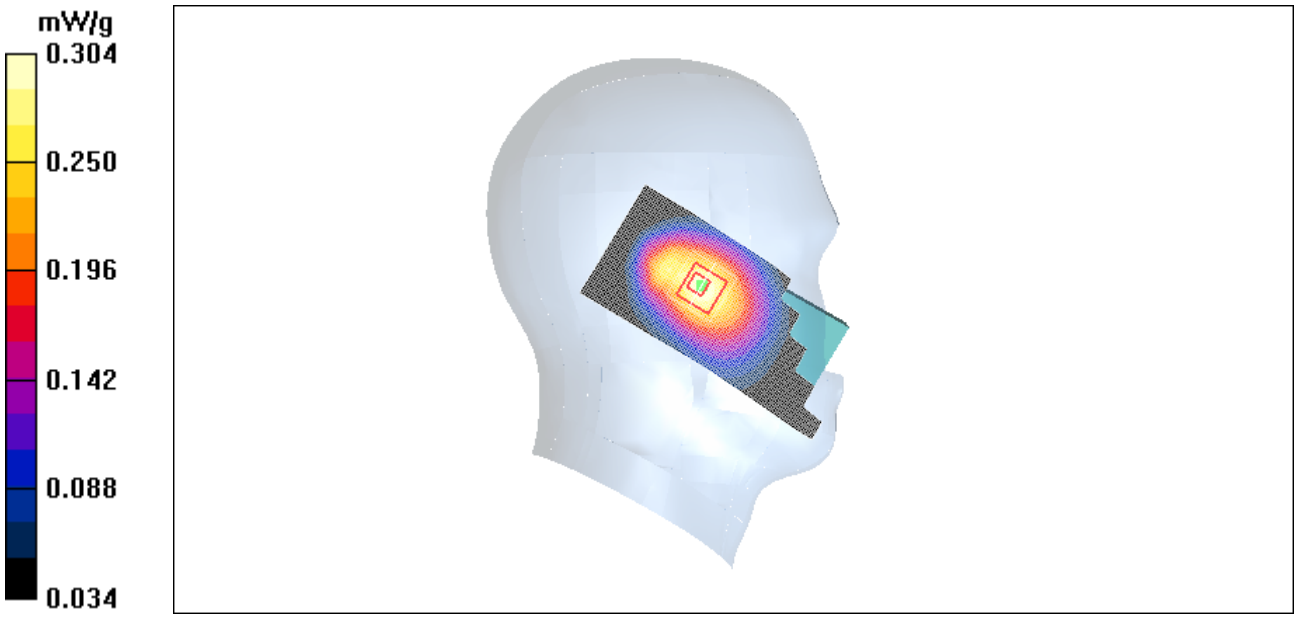


Figure 122 Left Hand Tilt 15°Open WCDMA Band V Channel 4233

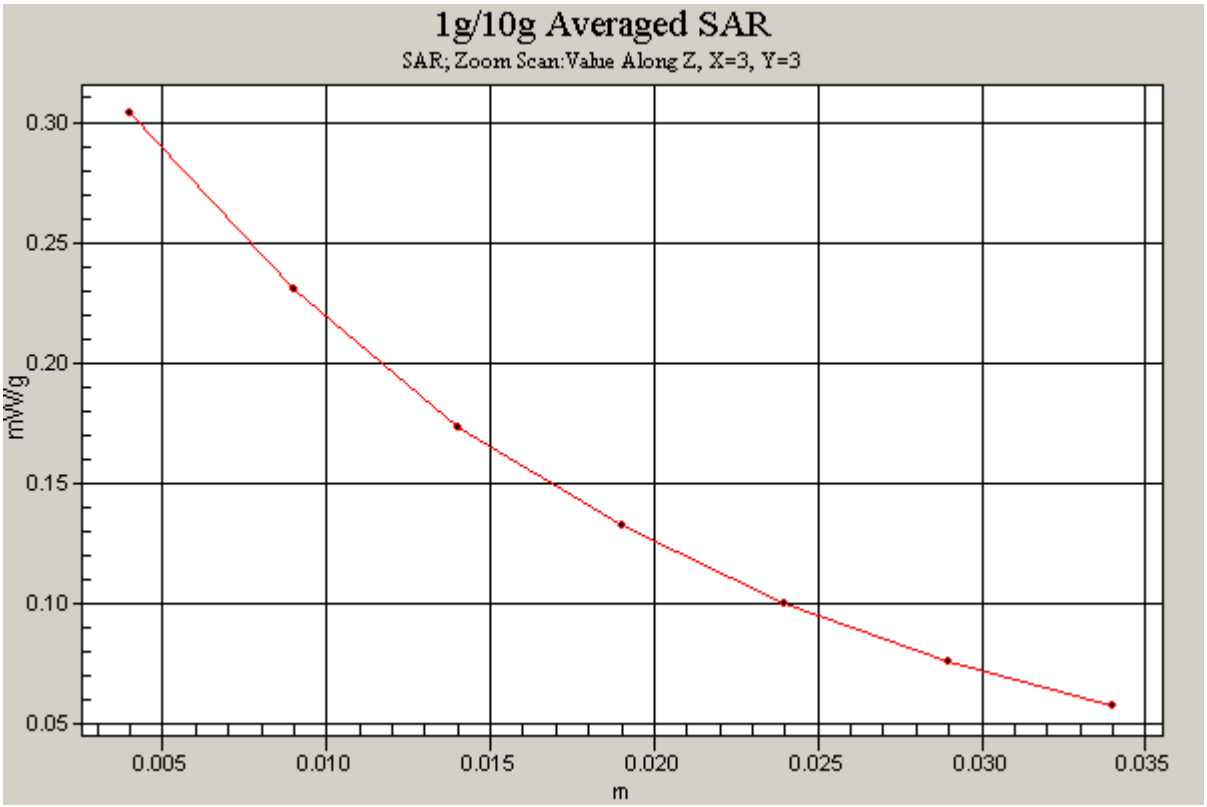


Figure 123 Z-Scan at power reference point (Left Hand Tilt 15°Open WCDMA Band V Channel 4233)

WCDMA Band V Left Tilt Middle Open

Communication System: WCDMA Band V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.936 mho/m; ε_r = 42.9; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Tilt Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.296 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.2 V/m; Power Drift = -0.010 dB
Peak SAR (extrapolated) = 0.372 W/kg
SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.203 mW/g
Maximum value of SAR (measured) = 0.302 mW/g

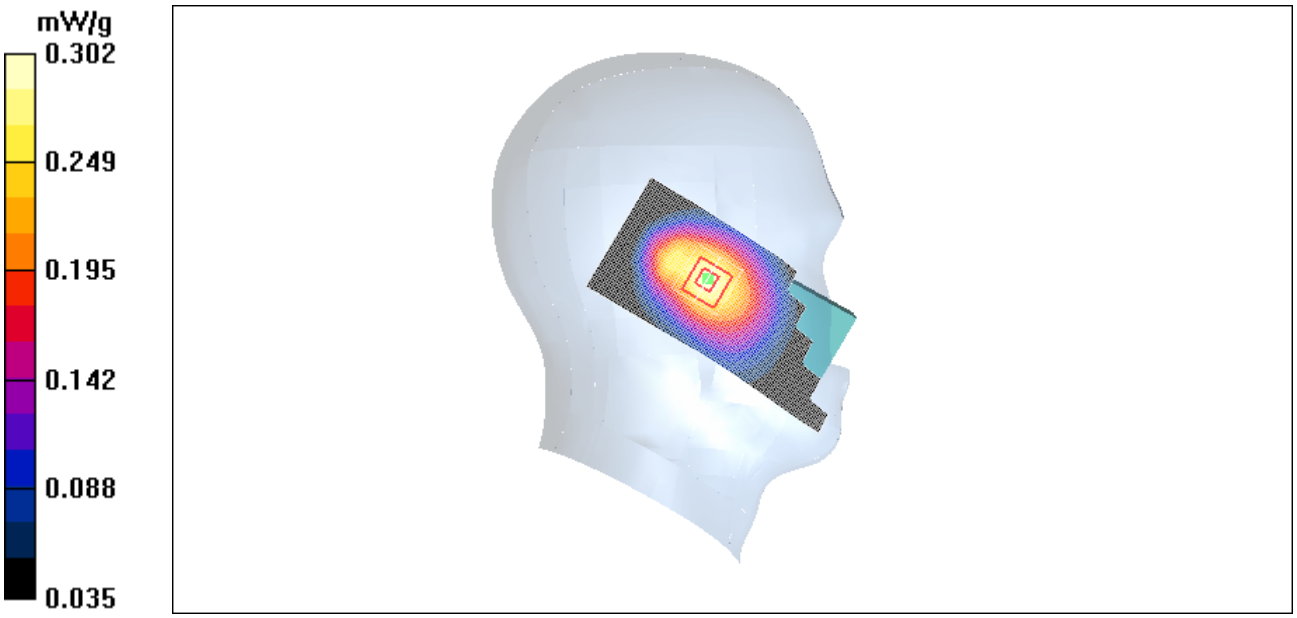


Figure 124 Left Hand Tilt 15 ° Open WCDMA Band V Channel 4182

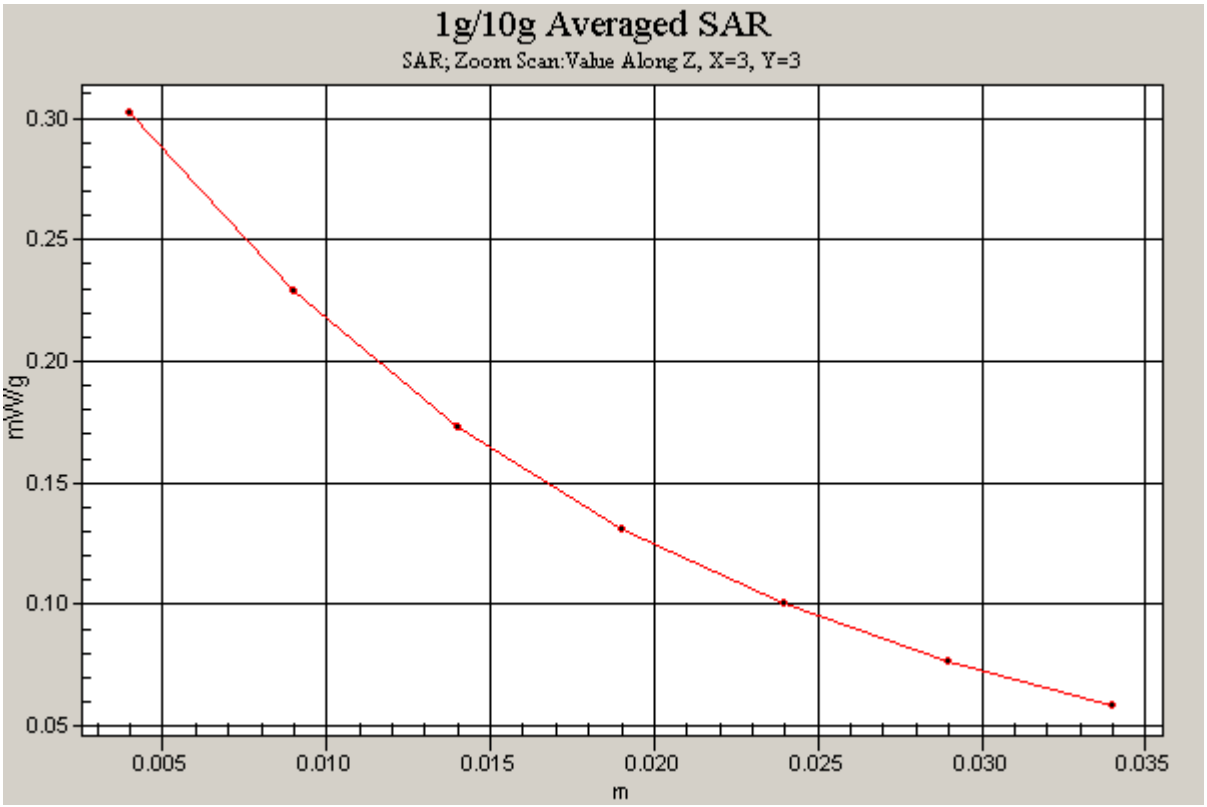


Figure 125 Z-Scan at power reference point (Left Hand Tilt 15 ° Open WCDMA Band V Channel 4182)

WCDMA Band V Left Tilt Low Open

Communication System: WCDMA Band V; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.923 mho/m; ε_r = 43.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Tilt Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.241 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.7 V/m; Power Drift = -0.030 dB
Peak SAR (extrapolated) = 0.302 W/kg
SAR(1 g) = 0.231 mW/g; SAR(10 g) = 0.167 mW/g
Maximum value of SAR (measured) = 0.245 mW/g

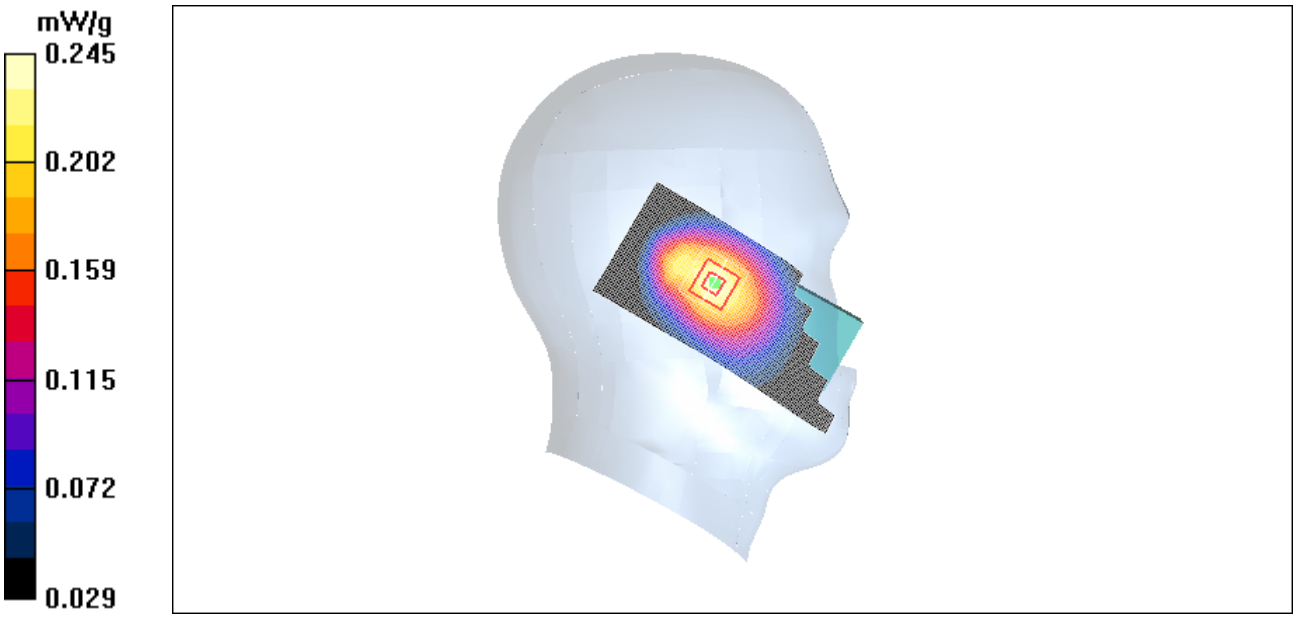


Figure 126 Left Hand Tilt 15 ° Open WCDMA Band V Channel 4132

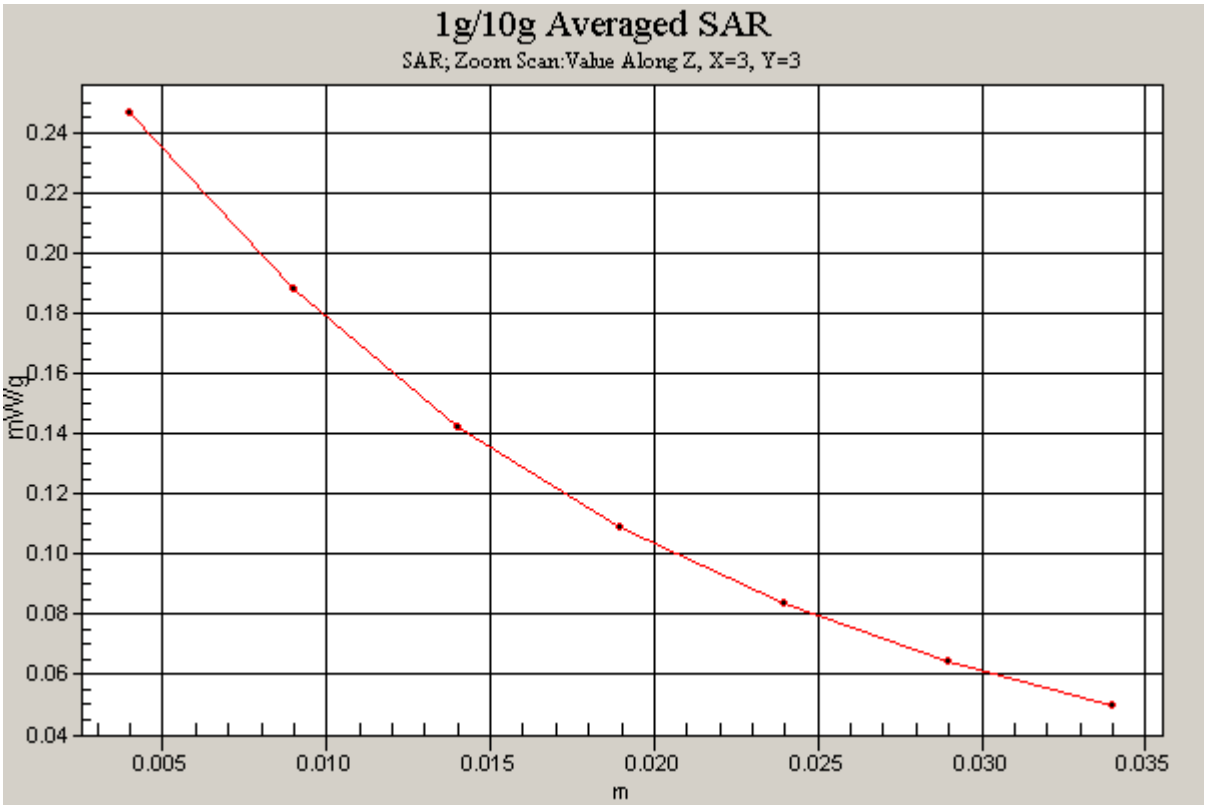


Figure 127 Z-Scan at power reference point (Left Hand Tilt 15 ° Open WCDMA Band V Channel 4132)

WCDMA Band V Right Cheek High Open

Communication System: WCDMA Band V; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 847 MHz; σ = 0.947 mho/m; ε_r = 42.8; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Cheek High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.512 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.7 V/m; Power Drift = 0.007 dB
Peak SAR (extrapolated) = 0.605 W/kg
SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.350 mW/g
Maximum value of SAR (measured) = 0.507 mW/g

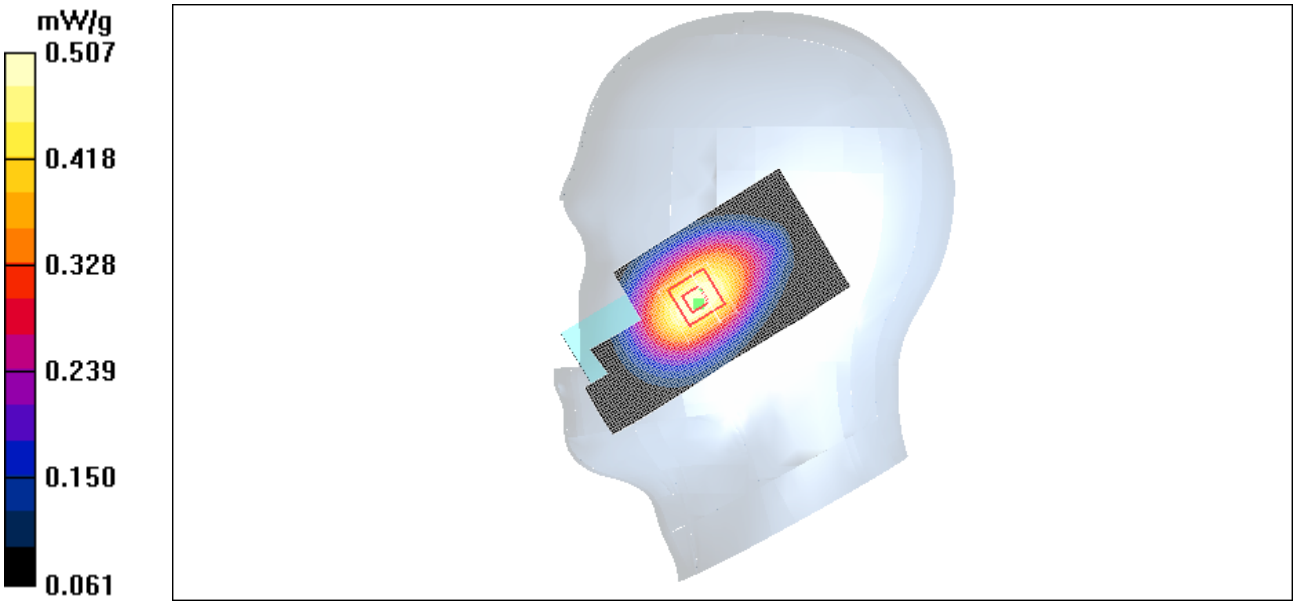


Figure 128 Right Hand Touch Cheek Open WCDMA Band V Channel 4233

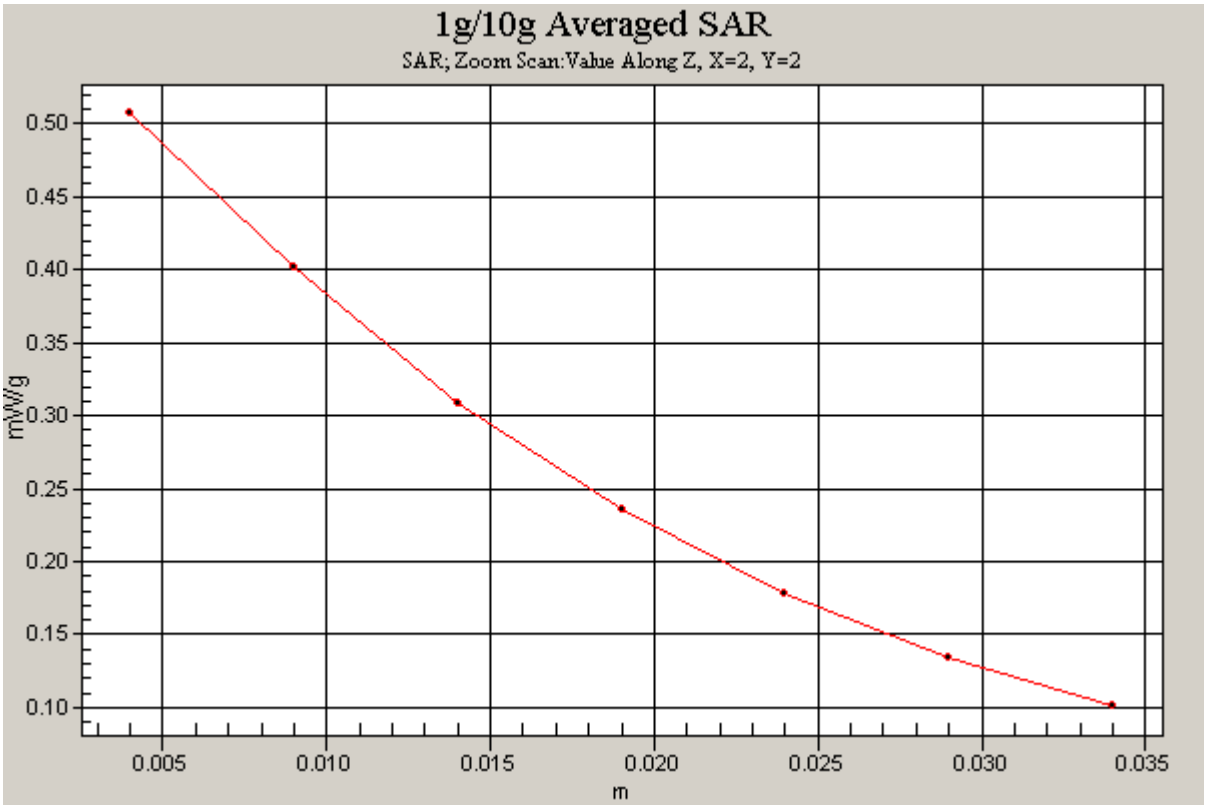


Figure 129 Z-Scan at power reference point (Right Hand Touch Cheek Open WCDMA Band V Channel 4233)

WCDMA Band V Right Cheek Middle Open

Communication System: WCDMA Band V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.936 mho/m; ε_r = 42.9; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Cheek Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.518 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.7 V/m; Power Drift = -0.111 dB
Peak SAR (extrapolated) = 0.582 W/kg
SAR(1 g) = 0.460 mW/g; SAR(10 g) = 0.342 mW/g
Maximum value of SAR (measured) = 0.485 mW/g

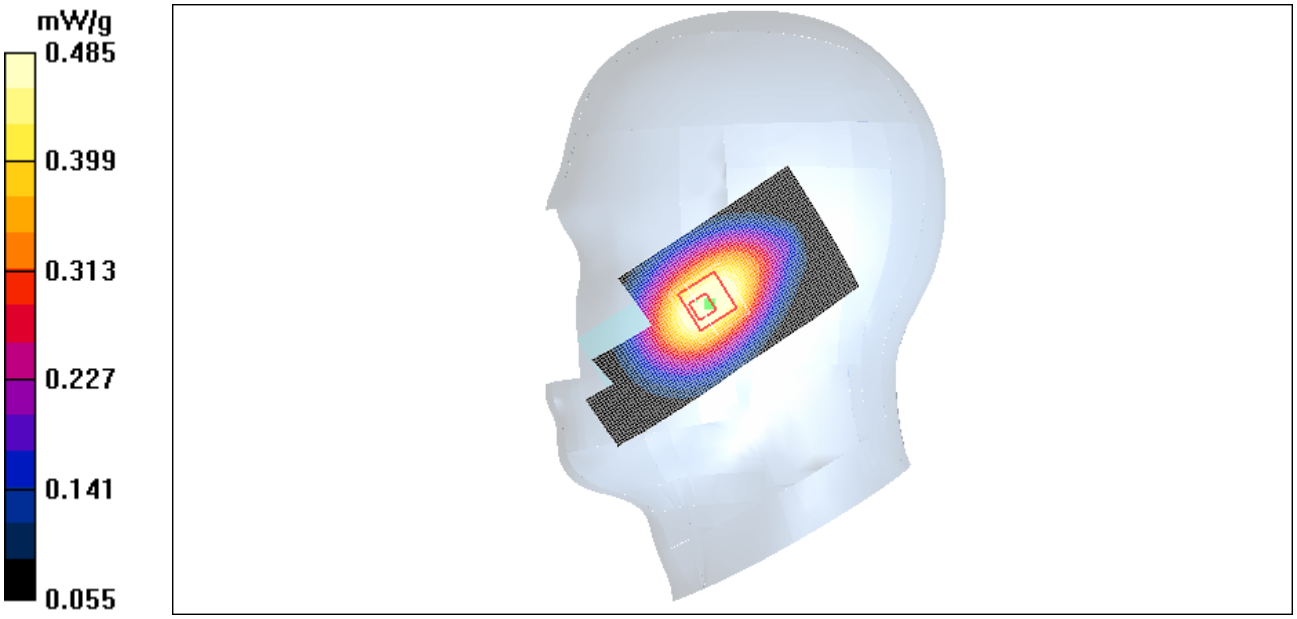


Figure 130 Right Hand Touch Cheek Open WCDMA Band V Channel 4182

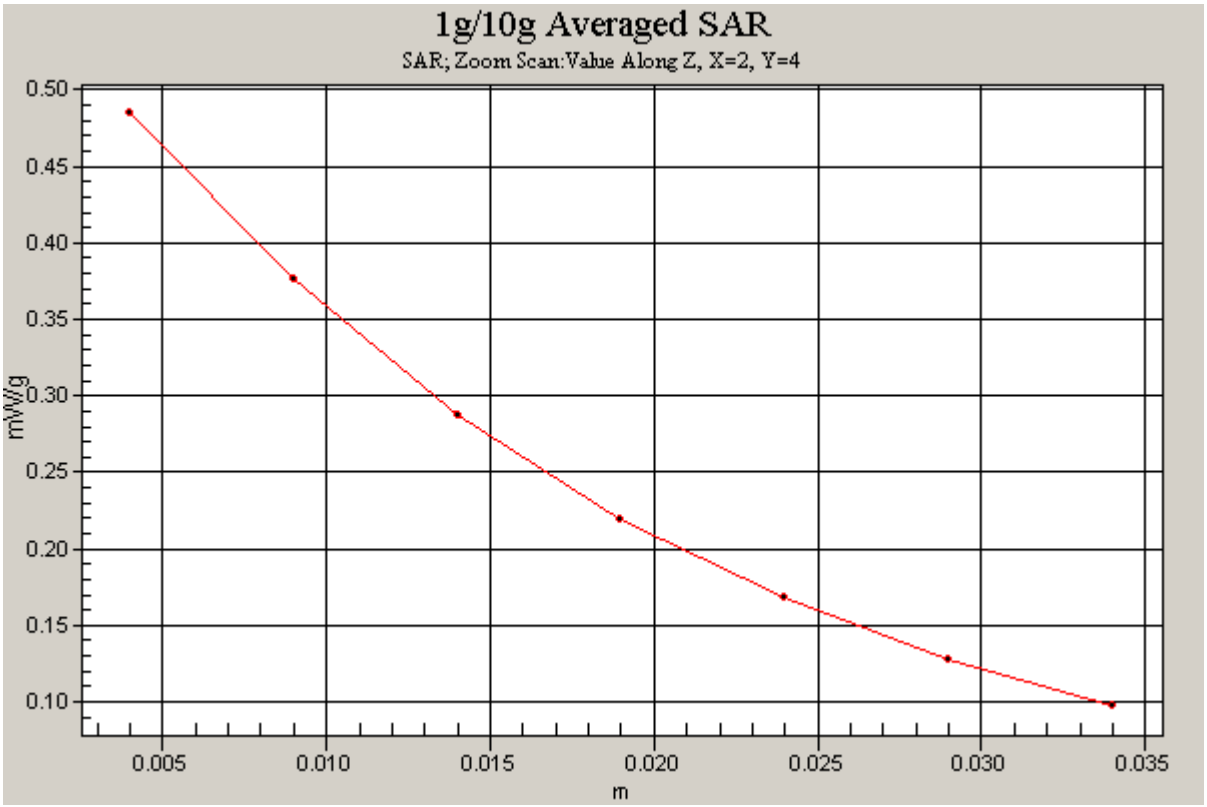


Figure 131 Z-Scan at power reference point (Right Hand Touch Cheek Open WCDMA Band V Channel 4182)

WCDMA Band V Right Cheek Low Open

Communication System: WCDMA Band V; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.923 mho/m; ε_r = 43.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Cheek Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.418 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.3 V/m; Power Drift = -0.077 dB
Peak SAR (extrapolated) = 0.484 W/kg
SAR(1 g) = 0.384 mW/g; SAR(10 g) = 0.284 mW/g
Maximum value of SAR (measured) = 0.404 mW/g

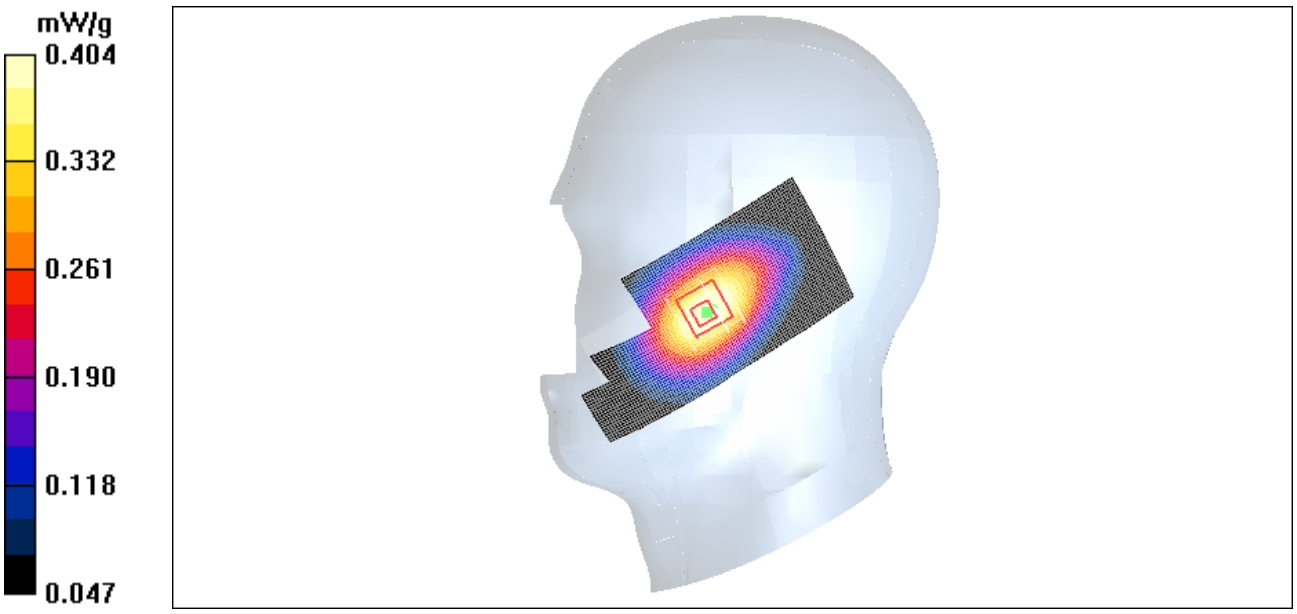


Figure 132 Right Hand Touch Cheek Open WCDMA Band V Channel 4132

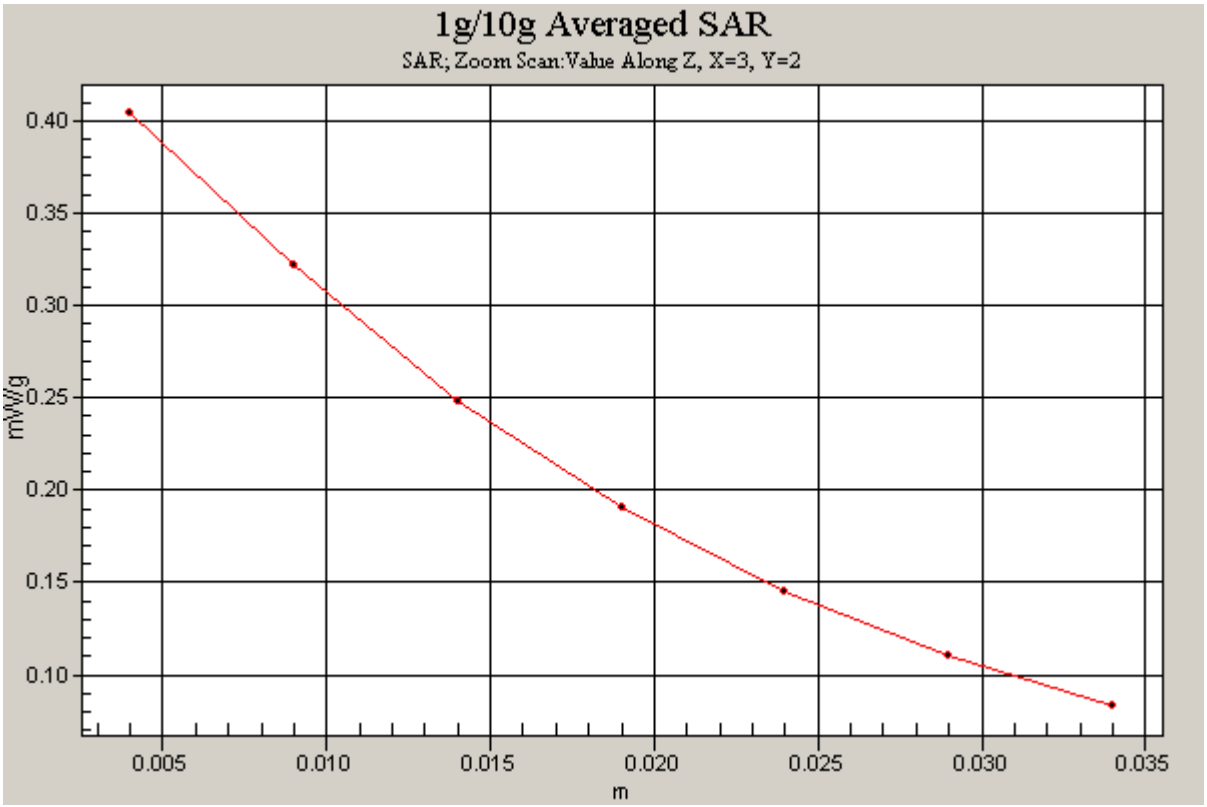


Figure 133 Z-Scan at power reference point (Right Hand Touch Cheek Open WCDMA Band V Channel 4132)

WCDMA Band V Right Tilt High Open

Communication System: WCDMA Band V; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 847 MHz; σ = 0.947 mho/m; ε_r = 42.8; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Tilt High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.292 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.8 V/m; Power Drift = 0.183 dB
Peak SAR (extrapolated) = 0.372 W/kg
SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.205 mW/g
Maximum value of SAR (measured) = 0.303 mW/g

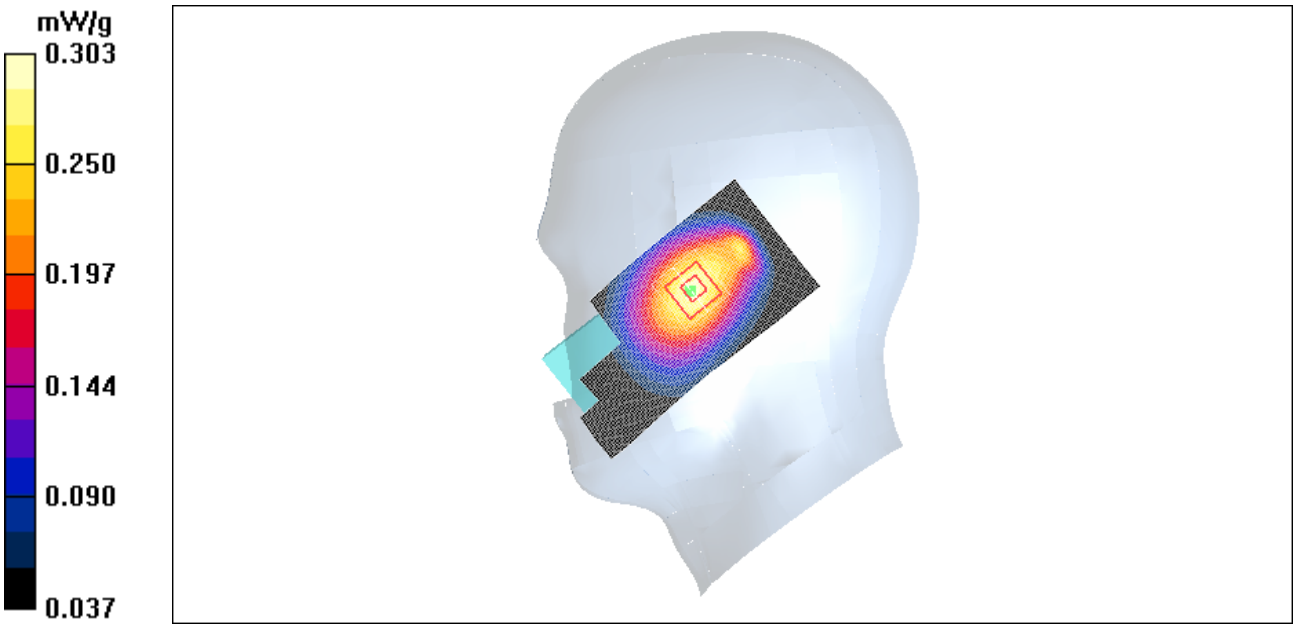


Figure 134 Right Hand Tilt 15 ° Open WCDMA Band V Channel 4233

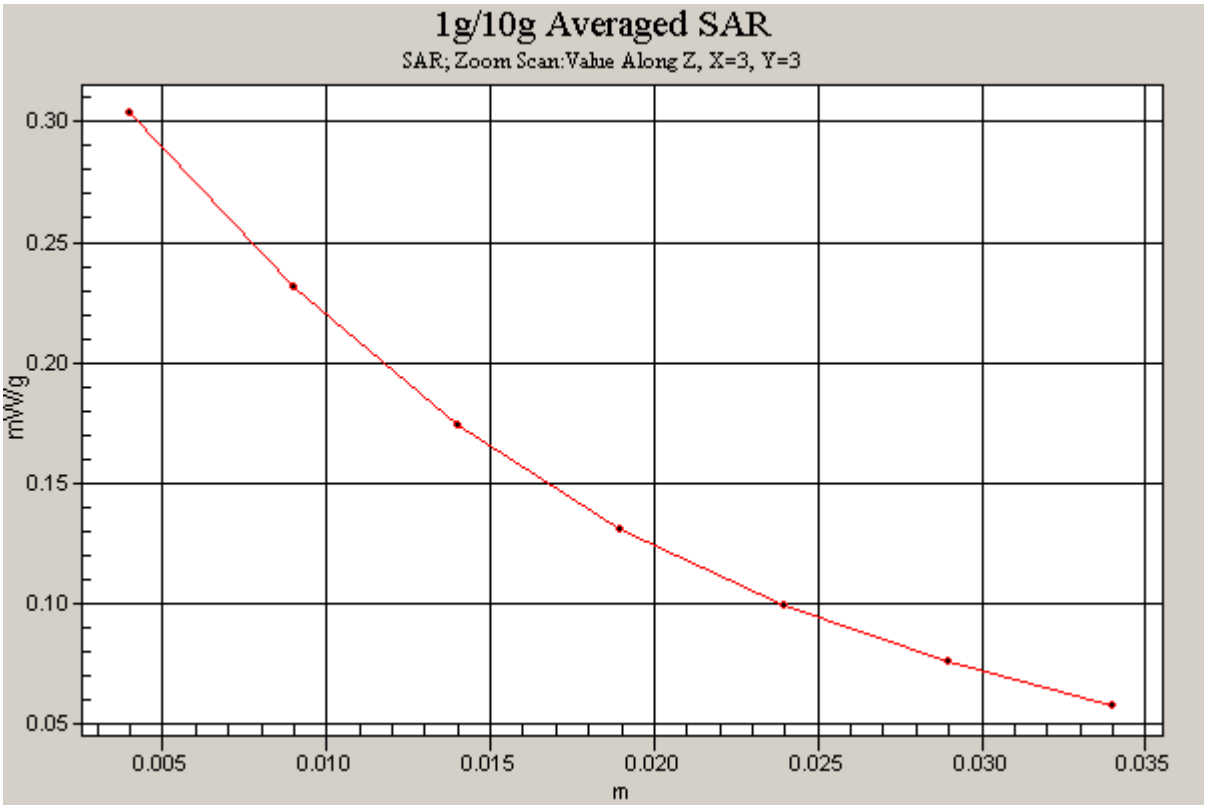


Figure 135 Z-Scan at power reference point (Right Hand Tilt 15 ° Open WCDMA Band V Channel 4233)

WCDMA Band V Right Tilt Middle Open

Communication System: WCDMA Band V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.936 mho/m; ε_r = 42.9; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Tilt Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.317 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.4 V/m; Power Drift = 0.127 dB
Peak SAR (extrapolated) = 0.391 W/kg
SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.219 mW/g
Maximum value of SAR (measured) = 0.319 mW/g

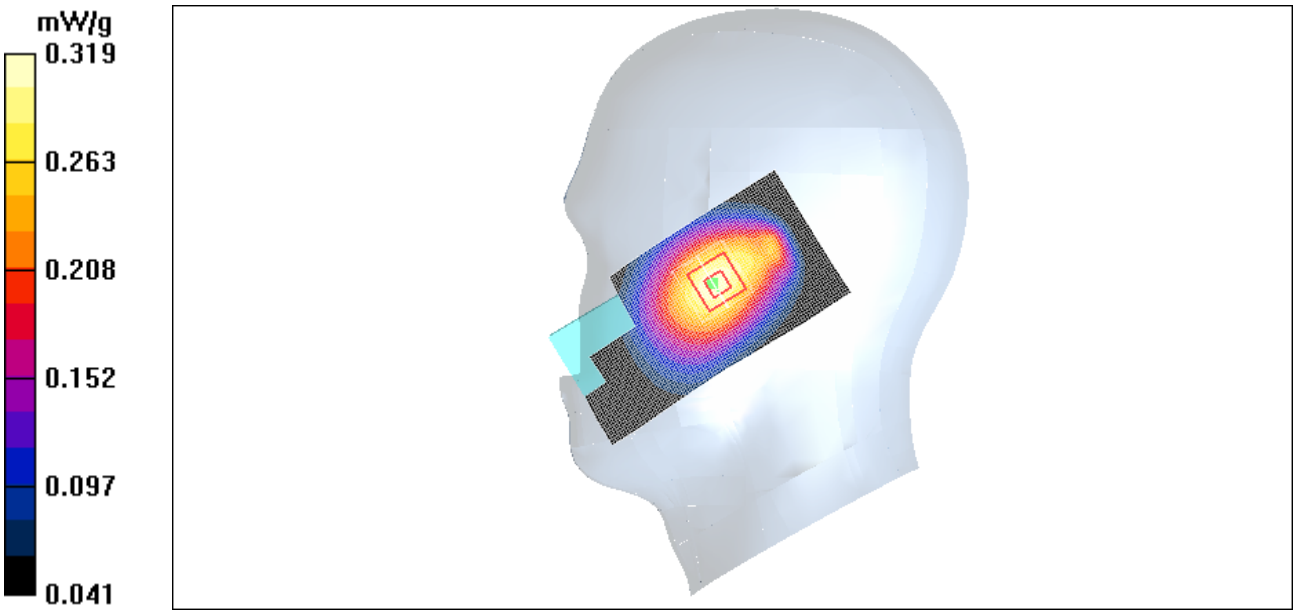


Figure 136 Right Hand Tilt 15 ° Open WCDMA Band V Channel 4182

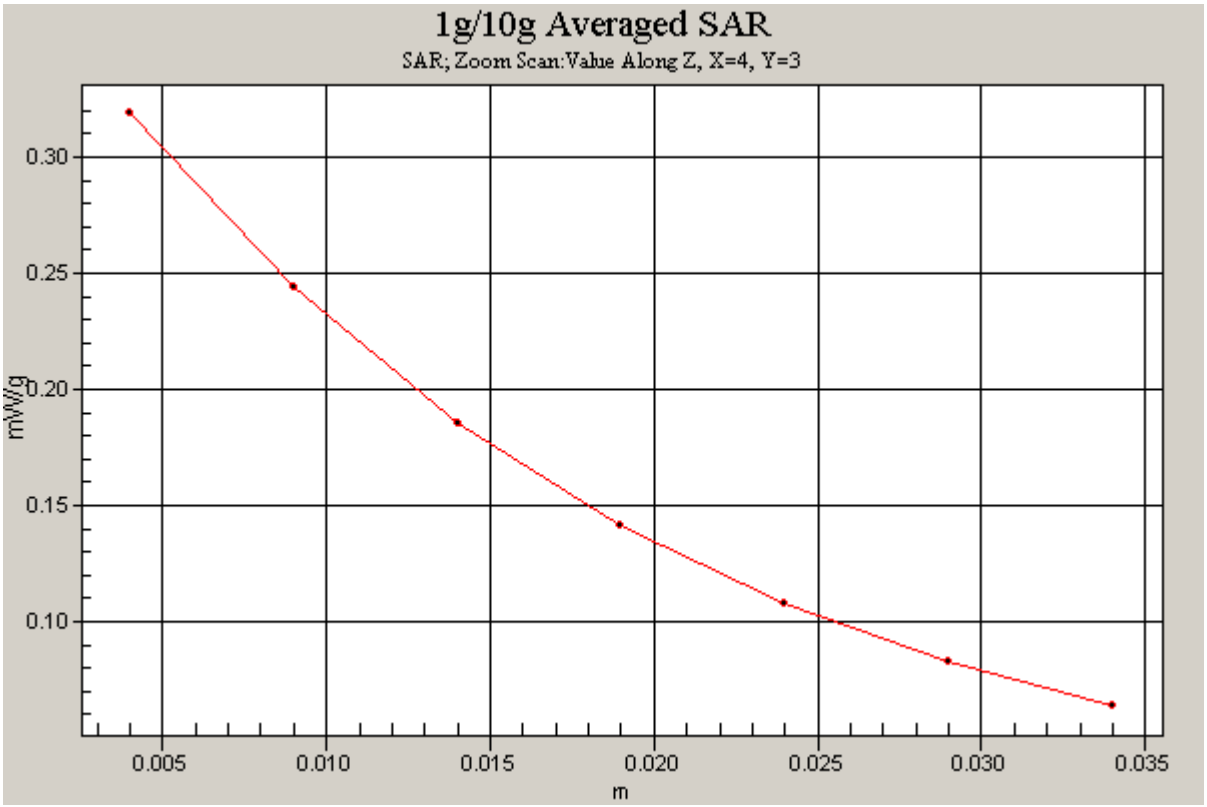


Figure 137 Z-Scan at power reference point (Right Hand Tilt 15 ° Open WCDMA Band V Channel 4182)

WCDMA Band V Right Tilt Low Open

Communication System: WCDMA Band V; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.923 mho/m; ε_r = 43.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Tilt Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.254 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.8 V/m; Power Drift = -0.115 dB
Peak SAR (extrapolated) = 0.310 W/kg
SAR(1 g) = 0.239 mW/g; SAR(10 g) = 0.174 mW/g
Maximum value of SAR (measured) = 0.254 mW/g

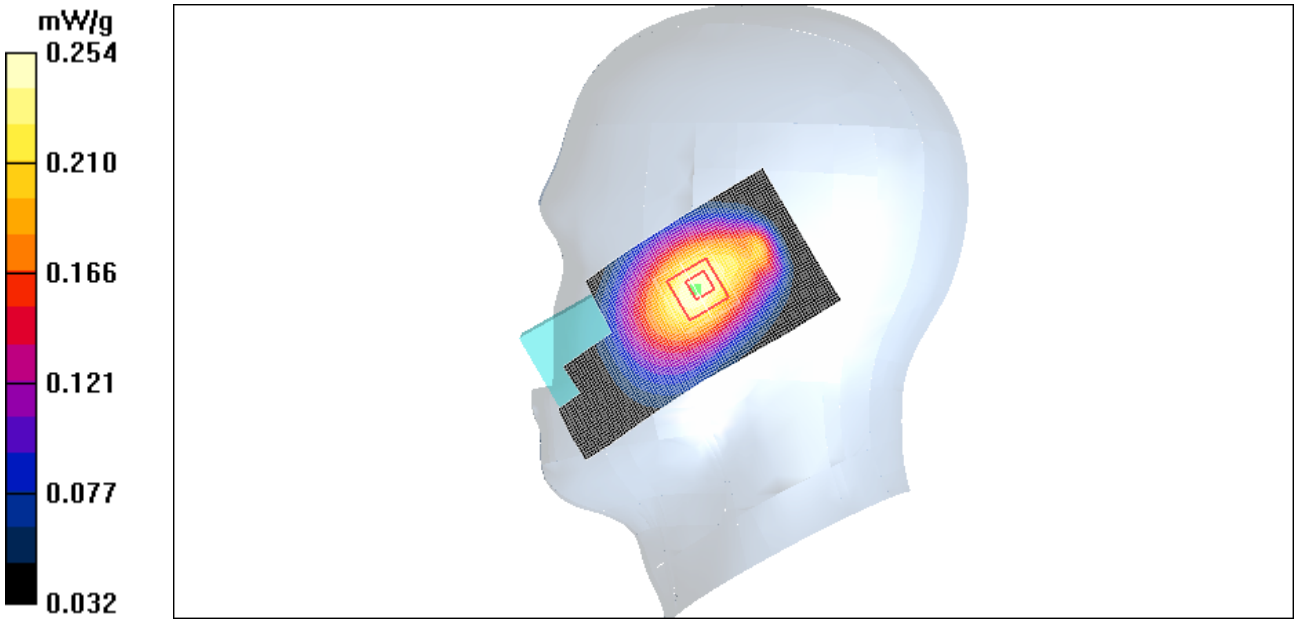


Figure 138 Right Hand Tilt 15 ° Open WCDMA Band V Channel 4132

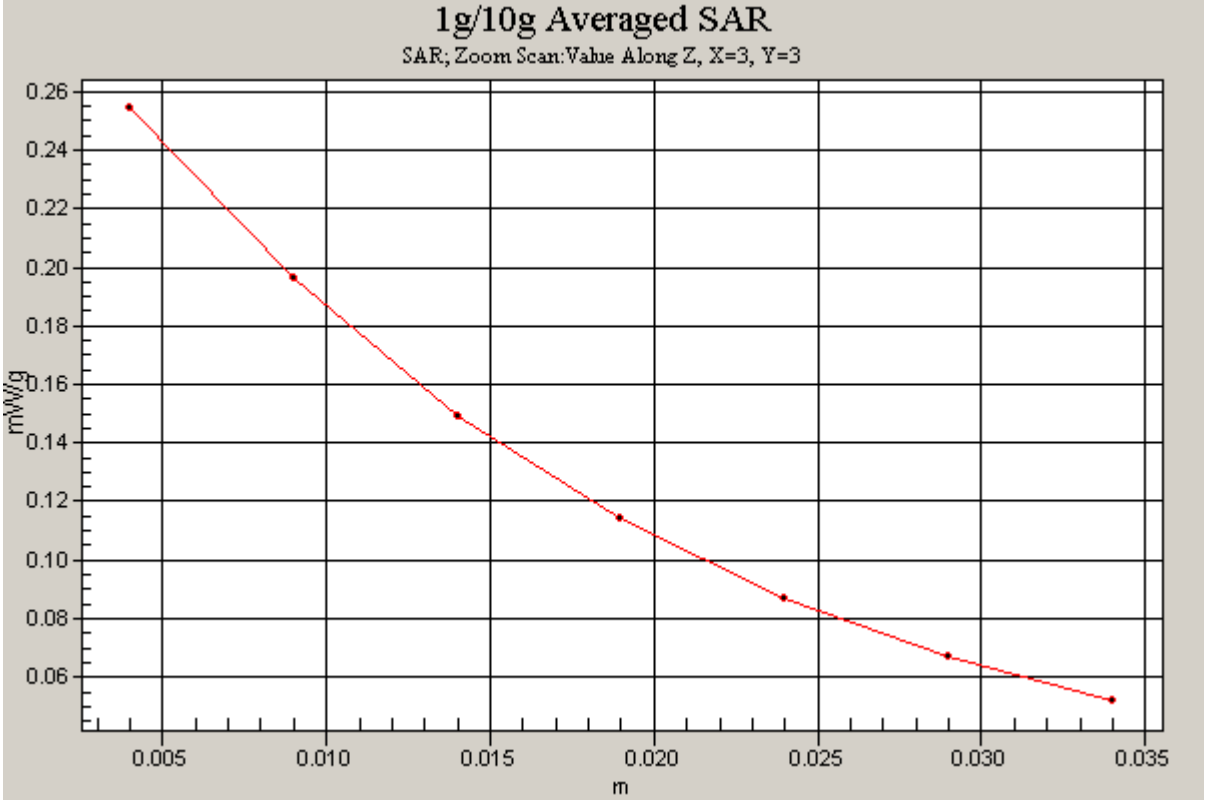


Figure 139 Z-Scan at power reference point (Right Hand Tilt 15 ° Open WCDMA Band V Channel 4132)

WCDMA Band V Towards Ground High Open

Communication System: WCDMA Band V; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 847 MHz; σ = 1.03 mho/m; ε_r = 55.6; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);
Electronics: DAE4 Sn452;
Towards Ground High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.567 mW/g

Towards Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.4 V/m; Power Drift = -0.021 dB
Peak SAR (extrapolated) = 0.668 W/kg
SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.381 mW/g
Maximum value of SAR (measured) = 0.564 mW/g

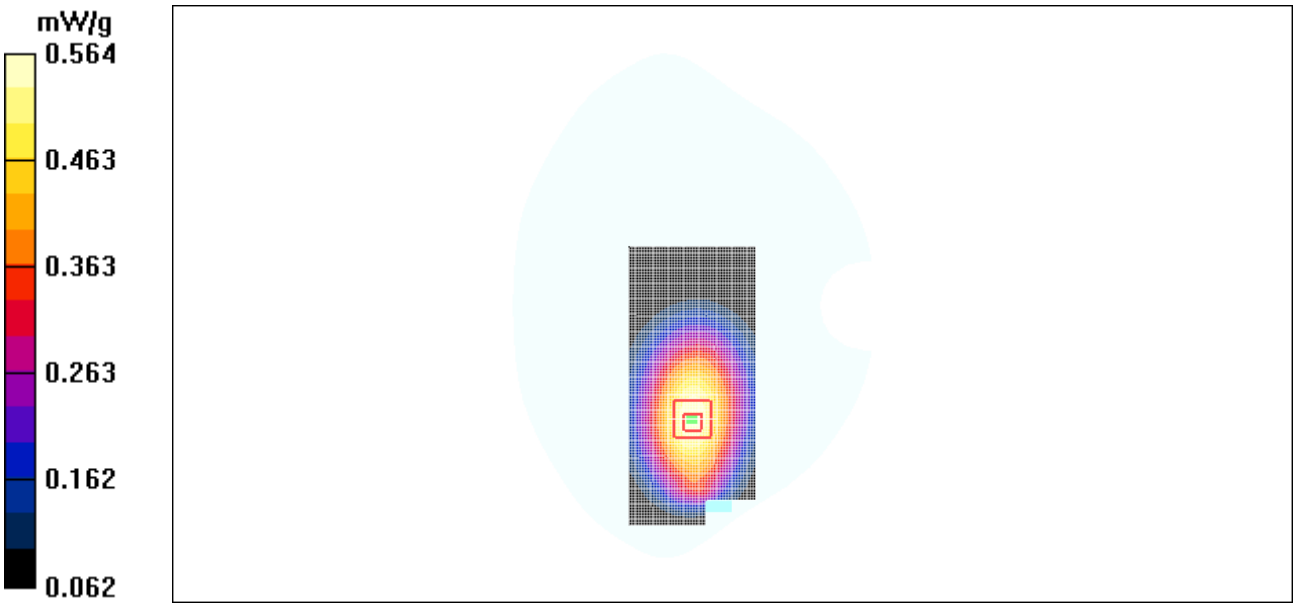


Figure 140 Body, Towards Ground, Open WCDMA Band V Channel 4233

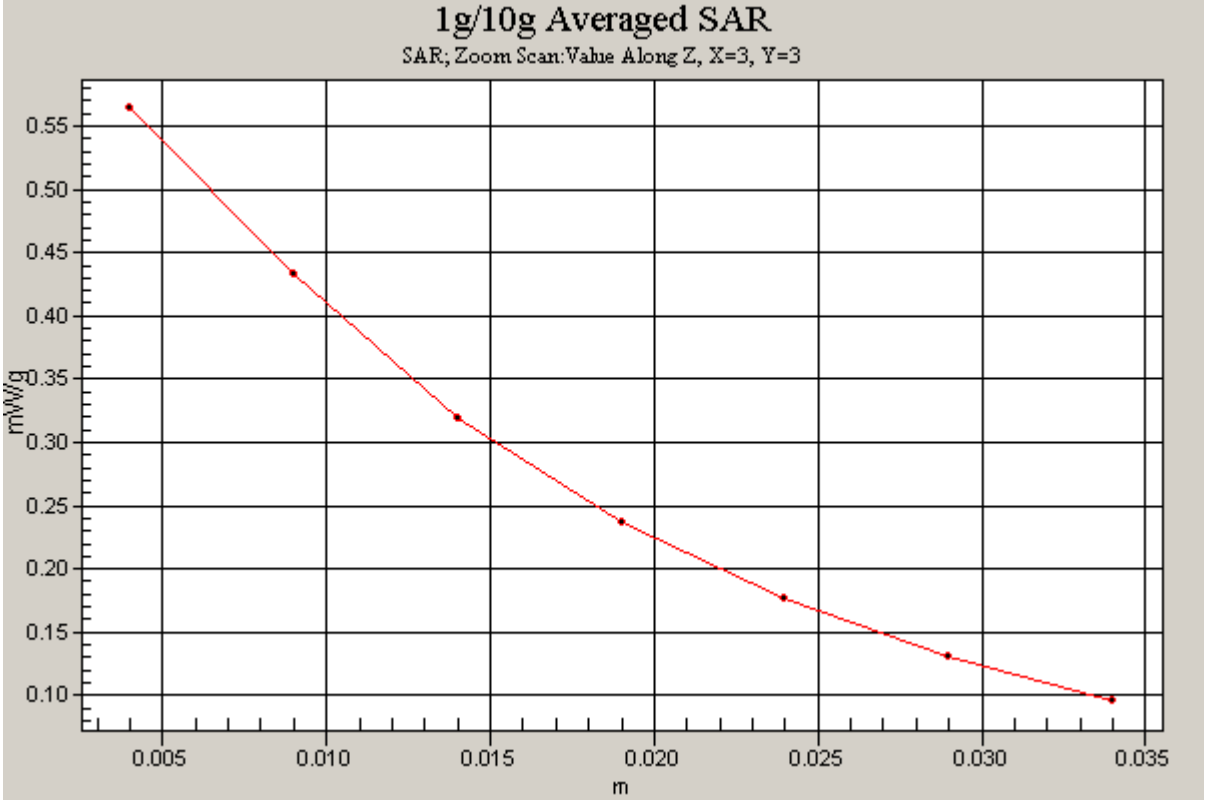


Figure 141 Z-Scan at power reference point (Body, Towards Ground, Open WCDMA Band V Channel 4233)

WCDMA Band V Towards Ground Middle Open

Communication System: WCDMA Band V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 1.02 mho/m; ε_r = 55.7; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);
Electronics: DAE4 Sn452;
Towards Ground Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.577 mW/g

Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.2 V/m; Power Drift = -0.031 dB
Peak SAR (extrapolated) = 0.682 W/kg
SAR(1 g) = 0.541 mW/g; SAR(10 g) = 0.394 mW/g
Maximum value of SAR (measured) = 0.576 mW/g

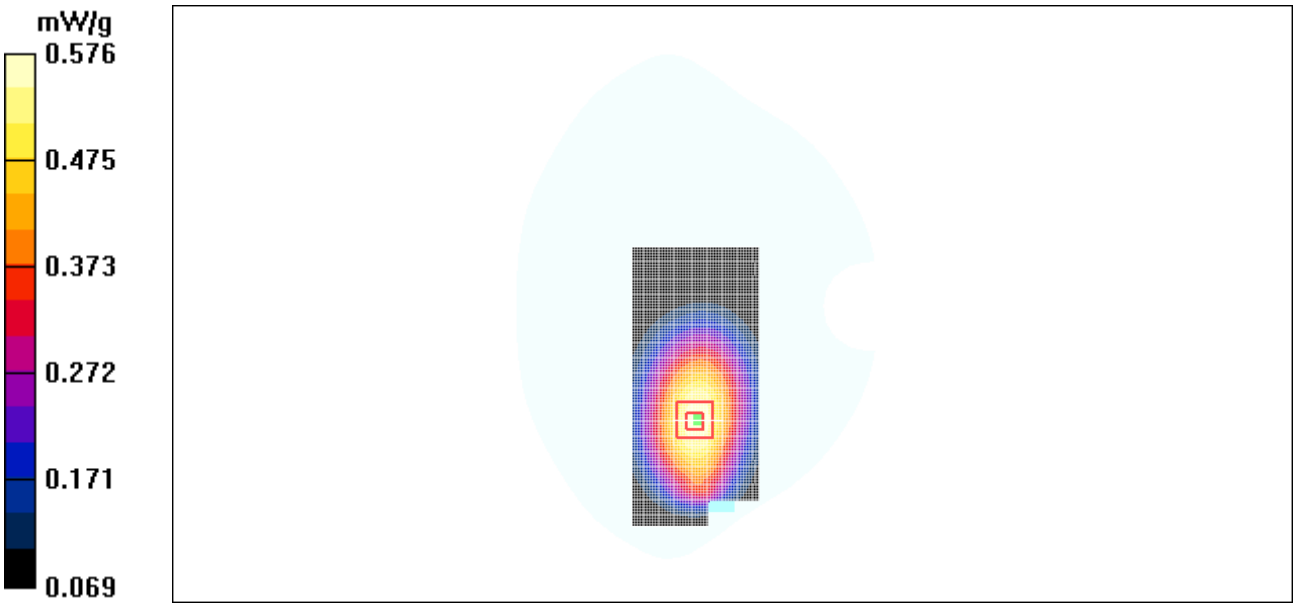


Figure 142 Body, Towards Ground, Open WCDMA Band V Channel 4182

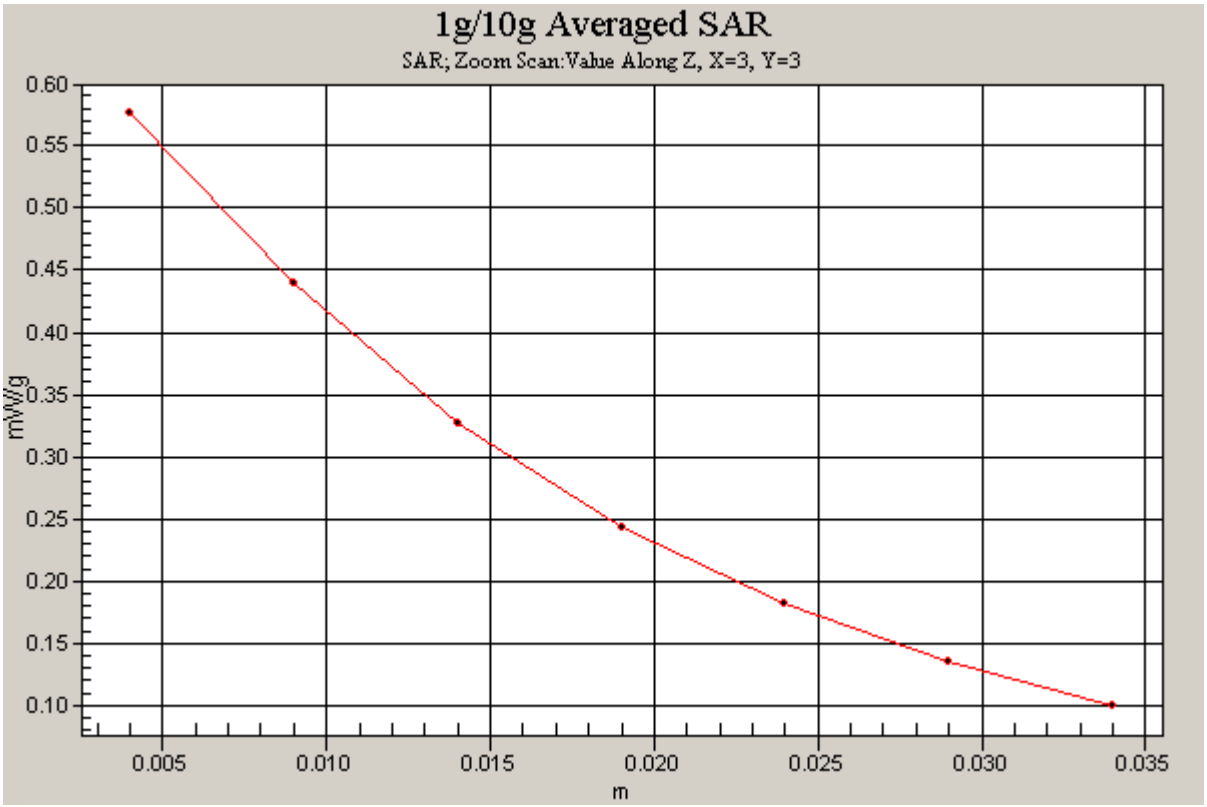


Figure 143 Z-Scan at power reference point (Body, Towards Ground, Open WCDMA Band V Channel 4182)

WCDMA Band V Towards Ground Low Open

Communication System: WCDMA Band V; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 1.01 mho/m; ε_r = 55.7; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);
Electronics: DAE4 Sn452;
Towards Ground Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.551 mW/g

Towards Ground Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.63 V/m; Power Drift = 0.099 dB
Peak SAR (extrapolated) = 0.662 W/kg
SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.378 mW/g
Maximum value of SAR (measured) = 0.557 mW/g

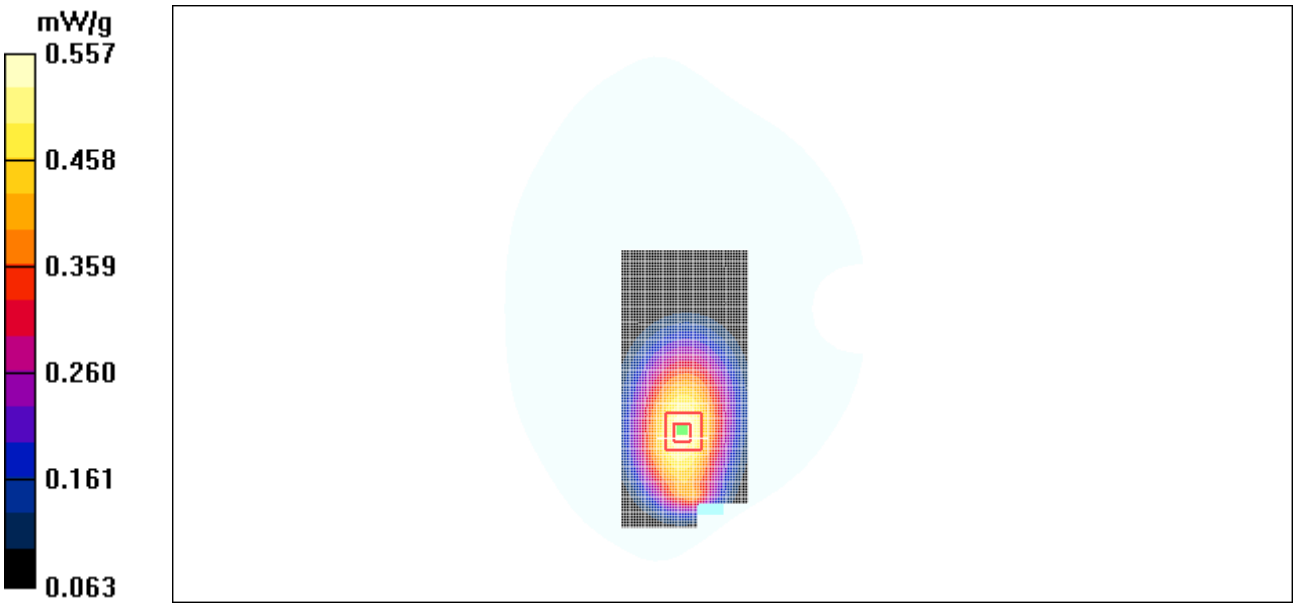


Figure 144 Body, Towards Ground, Open WCDMA Band V Channel 4132

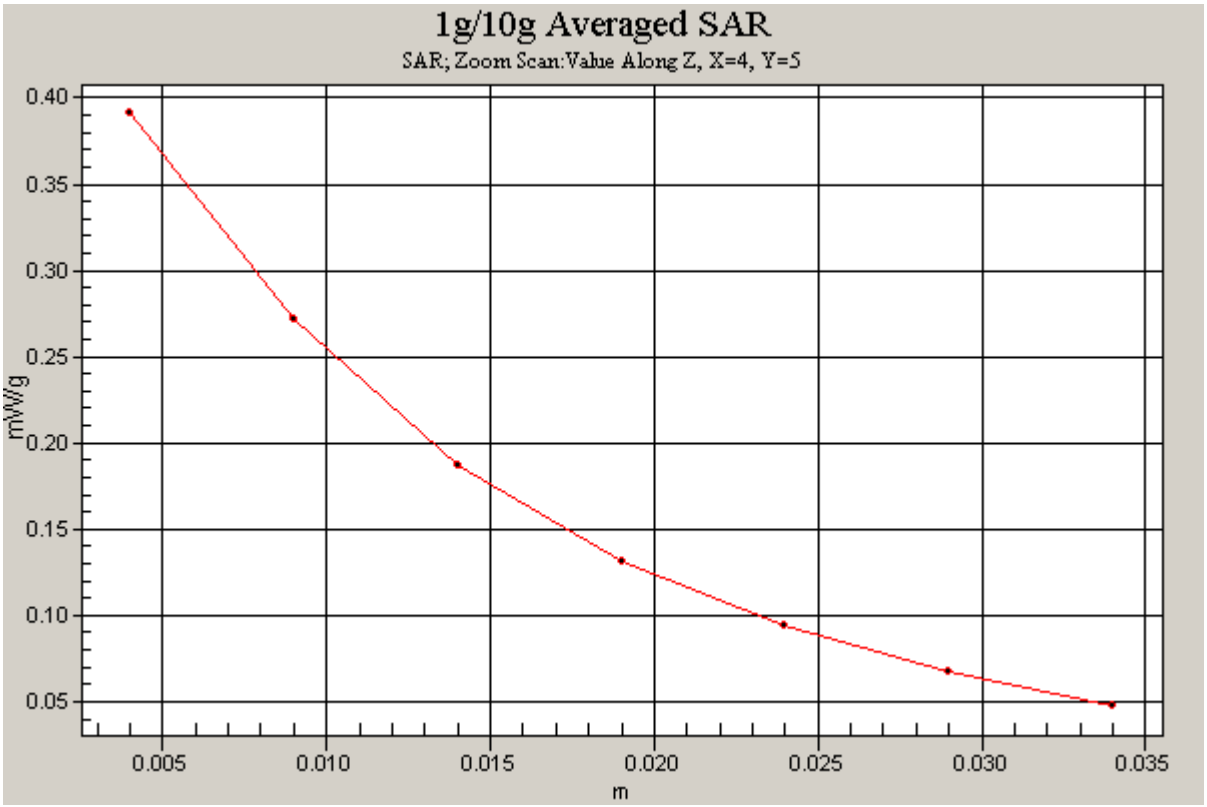


Figure 145 Z-Scan at power reference point (Body, Towards Ground, Open WCDMA Band V Channel 4132)

WCDMA Band V Towards Phantom High Open

Communication System: WCDMA Band V; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 847 MHz; σ = 1.03 mho/m; ε_r = 55.6; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);
Electronics: DAE4 Sn452;
Towards Phantom High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.503 mW/g

Towards Phantom High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.3 V/m; Power Drift = -0.149 dB
Peak SAR (extrapolated) = 0.588 W/kg
SAR(1 g) = 0.471 mW/g; SAR(10 g) = 0.344 mW/g
Maximum value of SAR (measured) = 0.498 mW/g

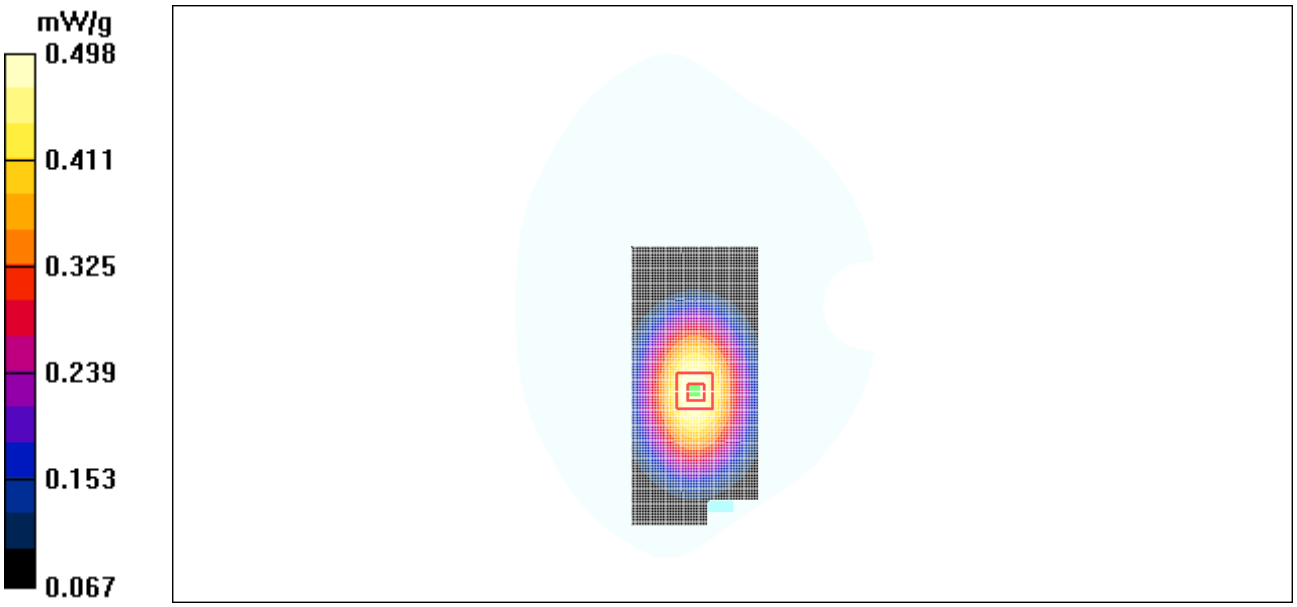


Figure 146 Body, Towards Phantom, Open WCDMA Band V Channel 4233

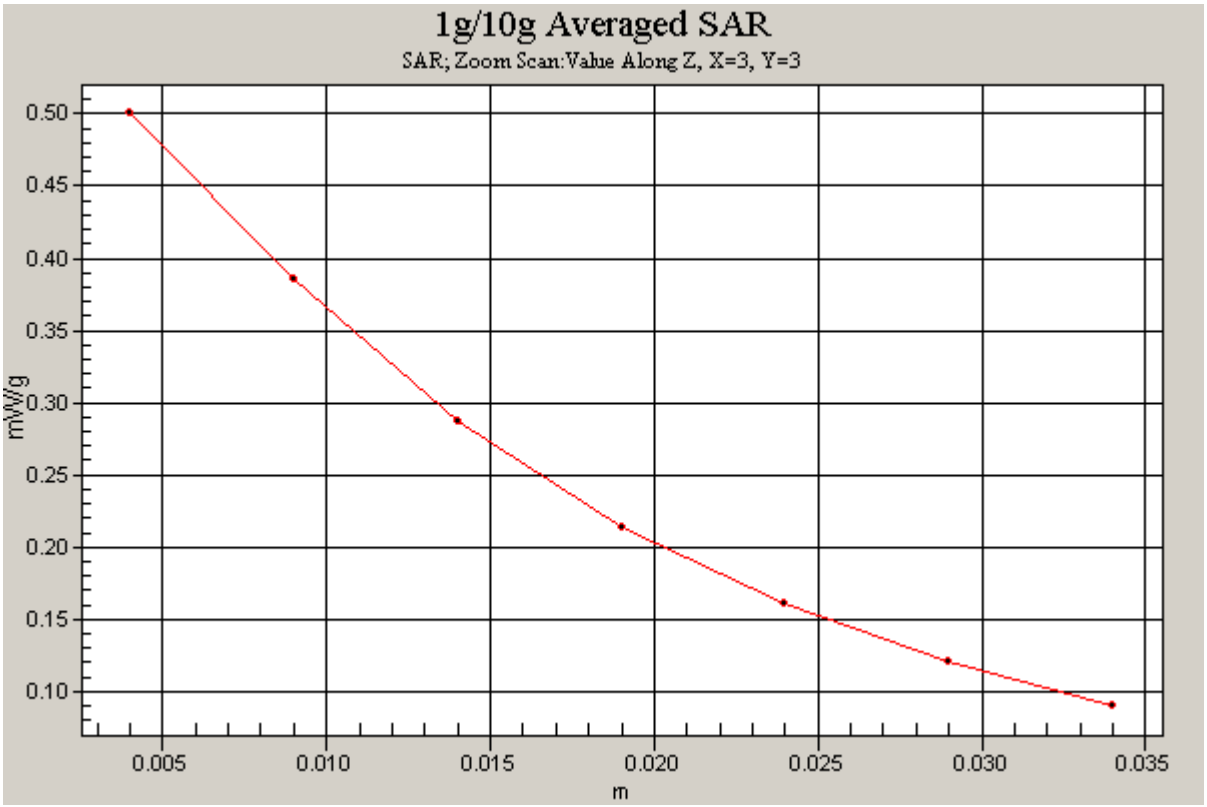


Figure 147 Z-Scan at power reference point (Body, Towards Phantom, Open WCDMA Band V Channel 4233)

WCDMA Band V Towards Phantom Middle Open

Communication System: WCDMA Band V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 1.02 mho/m; ε_r = 55.7; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);
Electronics: DAE4 Sn452;
Towards Phantom Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.506 mW/g

Towards Phantom Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.2 V/m; Power Drift = 0.012 dB
Peak SAR (extrapolated) = 0.590 W/kg
SAR(1 g) = 0.472 mW/g; SAR(10 g) = 0.345 mW/g
Maximum value of SAR (measured) = 0.499 mW/g

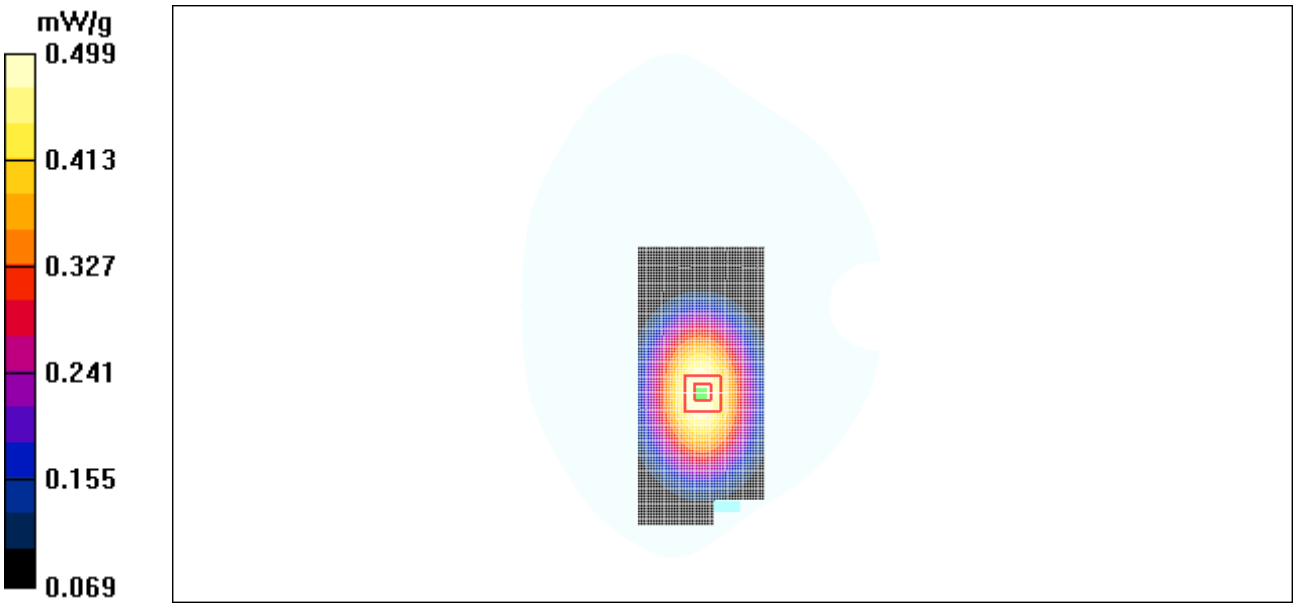


Figure 148 Body, Towards Phantom, Open WCDMA Band V Channel 4182

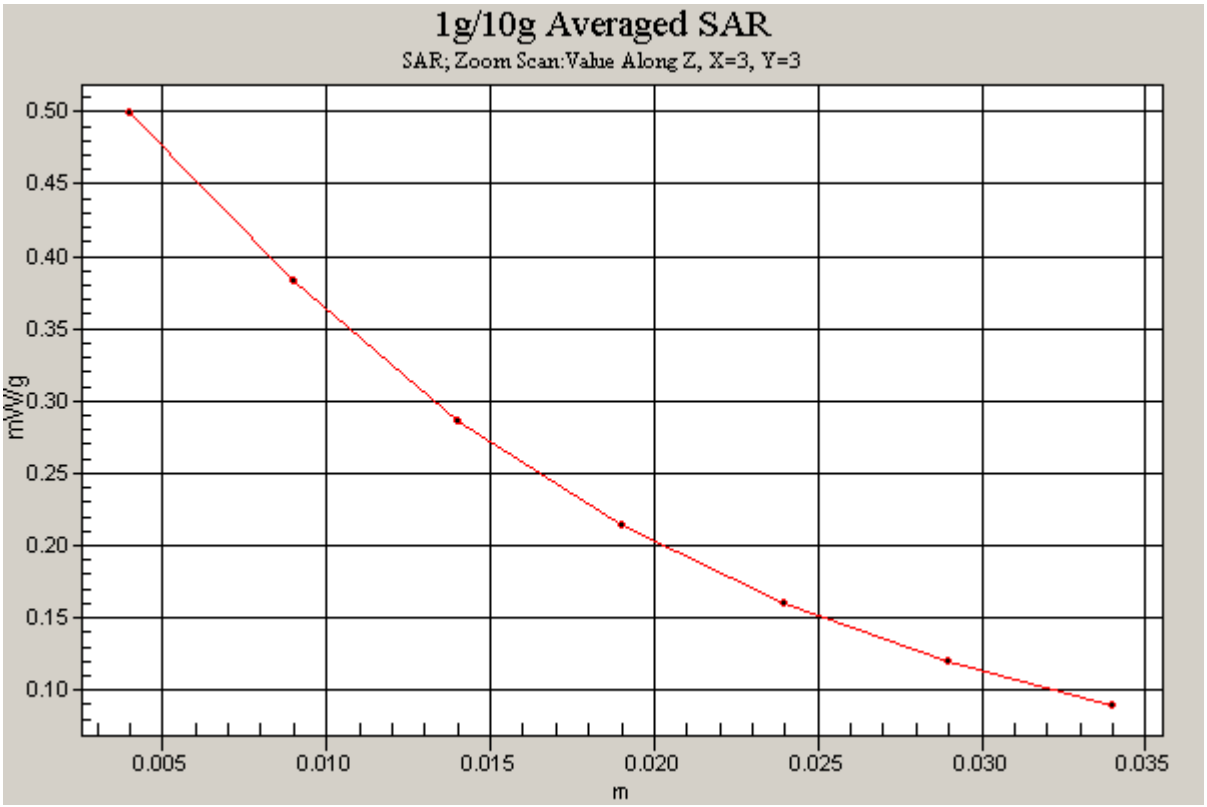


Figure 149 Z-Scan at power reference point (Body, Towards Phantom, Open WCDMA Band V Channel 4182)

WCDMA Band V Towards Phantom Low Open

Communication System: WCDMA Band V; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 1.01 mho/m; ε_r = 55.7; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);
Electronics: DAE4 Sn452;
Towards Phantom Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.439 mW/g

Towards Phantom Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.3 V/m; Power Drift = -0.007 dB
Peak SAR (extrapolated) = 0.516 W/kg
SAR(1 g) = 0.415 mW/g; SAR(10 g) = 0.304 mW/g
Maximum value of SAR (measured) = 0.439 mW/g

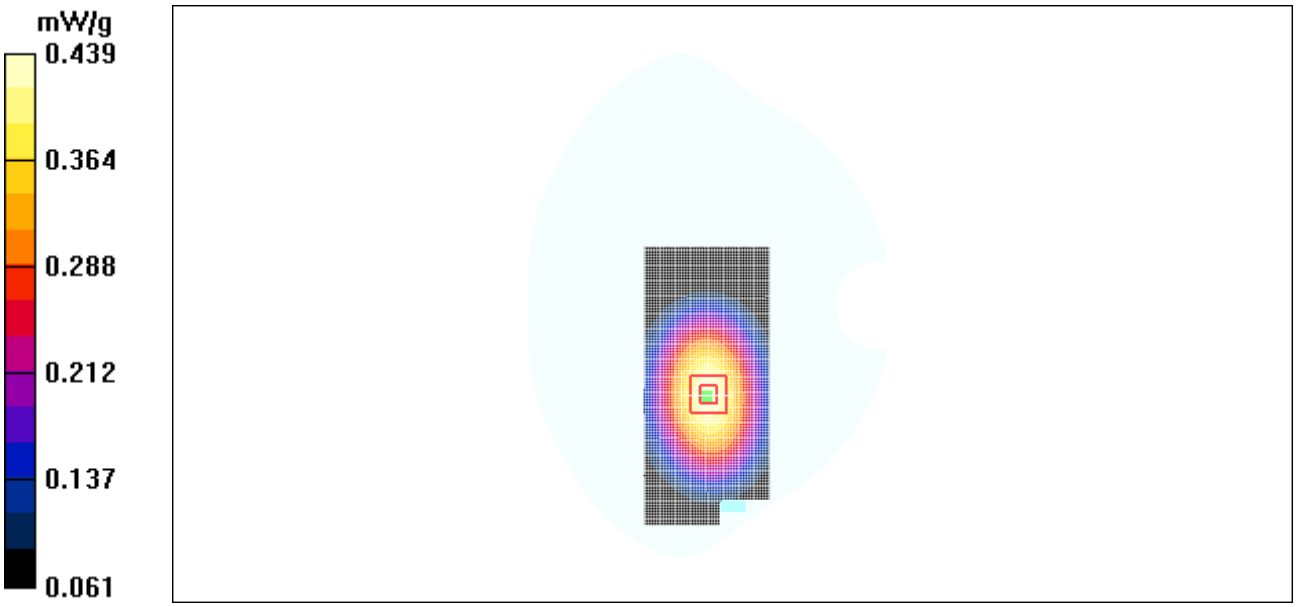


Figure 150 Body, Towards Phantom, Open WCDMA Band V Channel 4132

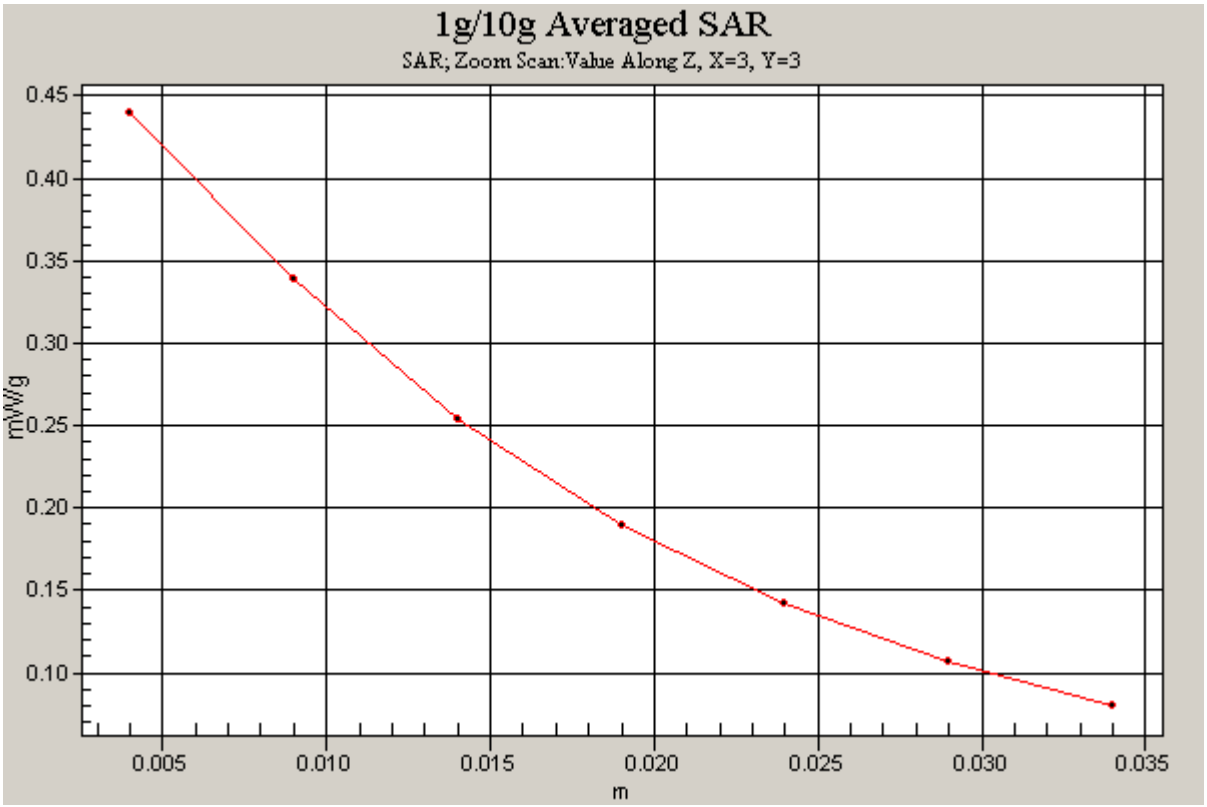


Figure 151 Z-Scan at power reference point (Body, Towards Ground, Open WCDMA Band V Channel 4132)

WCDMA Band V Earphone Towards Ground Middle Open

Communication System: WCDMA Band V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 1.02 mho/m; ε_r = 55.7; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);
Electronics: DAE4 Sn452;
Towards Ground Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.442 mW/g

Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.72 V/m; Power Drift = 0.051 dB
Peak SAR (extrapolated) = 0.536 W/kg
SAR(1 g) = 0.420 mW/g; SAR(10 g) = 0.305 mW/g
Maximum value of SAR (measured) = 0.447 mW/g

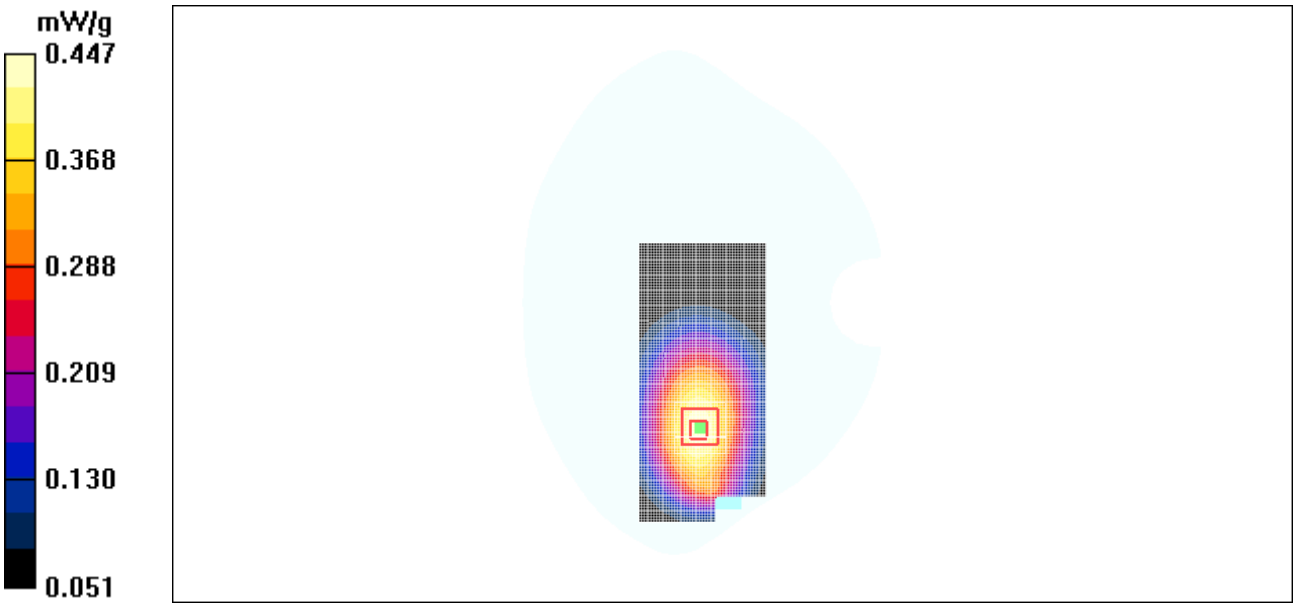


Figure 152 Body with Earphone, Towards Ground, Open WCDMA Band V, Channel 4182

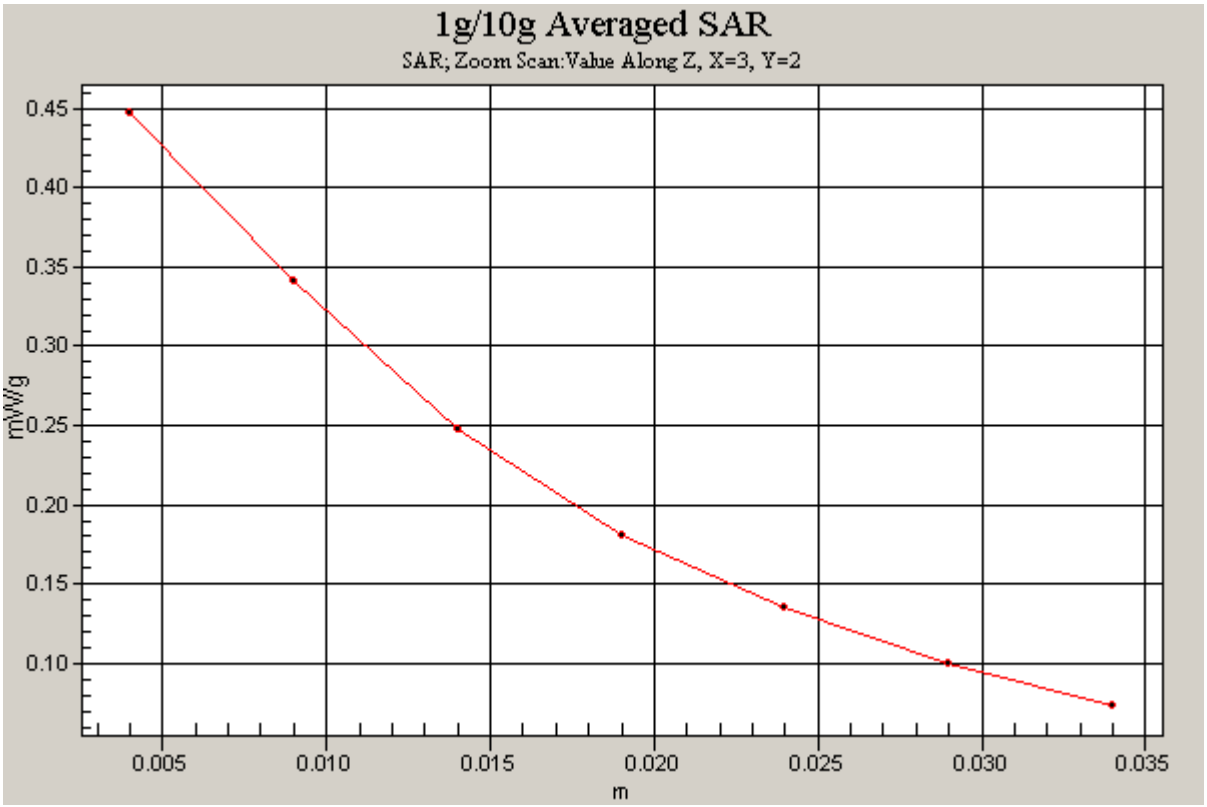


Figure 153 Z-Scan at power reference point (Body with Earphone, Towards Ground, Open WCDMA Band V, Channel 4182)

WCDMA Band V Bluetooth Earphone Towards Ground Middle Open

Communication System: WCDMA Band V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 1.02 mho/m; ε_r = 55.7; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);
Electronics: DAE4 Sn452;
Towards Ground Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.548 mW/g

Towards Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.80 V/m; Power Drift = -0.073 dB
Peak SAR (extrapolated) = 0.663 W/kg
SAR(1 g) = 0.516 mW/g; SAR(10 g) = 0.375 mW/g
Maximum value of SAR (measured) = 0.556 mW/g

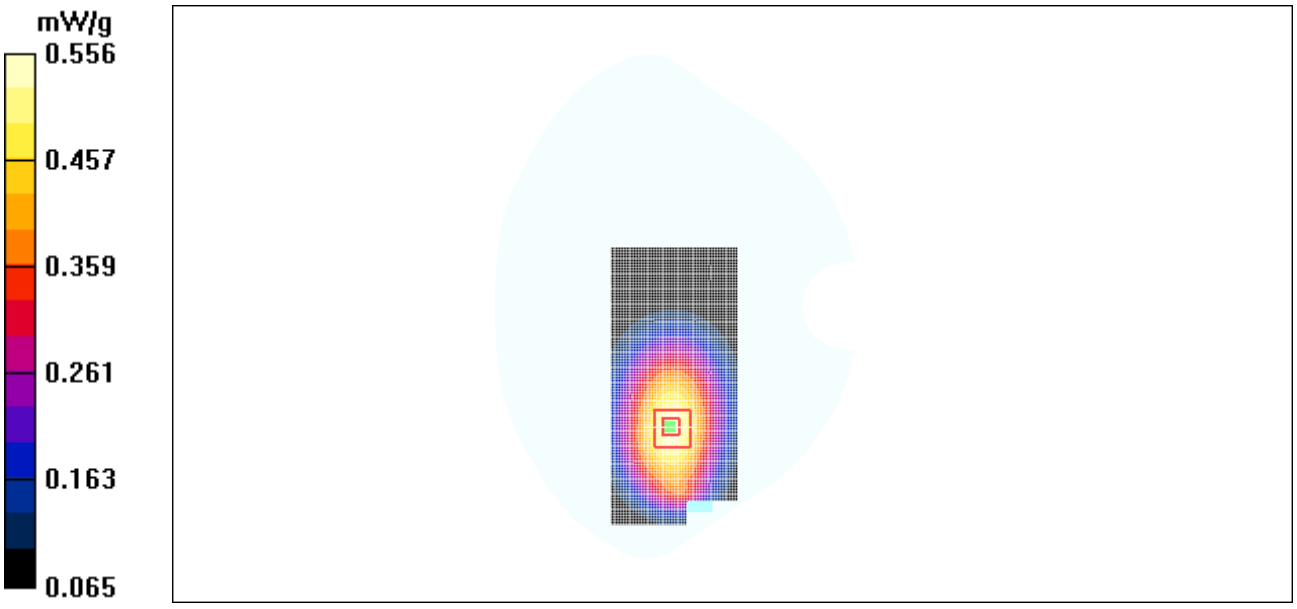


Figure 154 Body with Bluetooth earphone, Towards Ground Open WCDMA Band V, Channel 4182

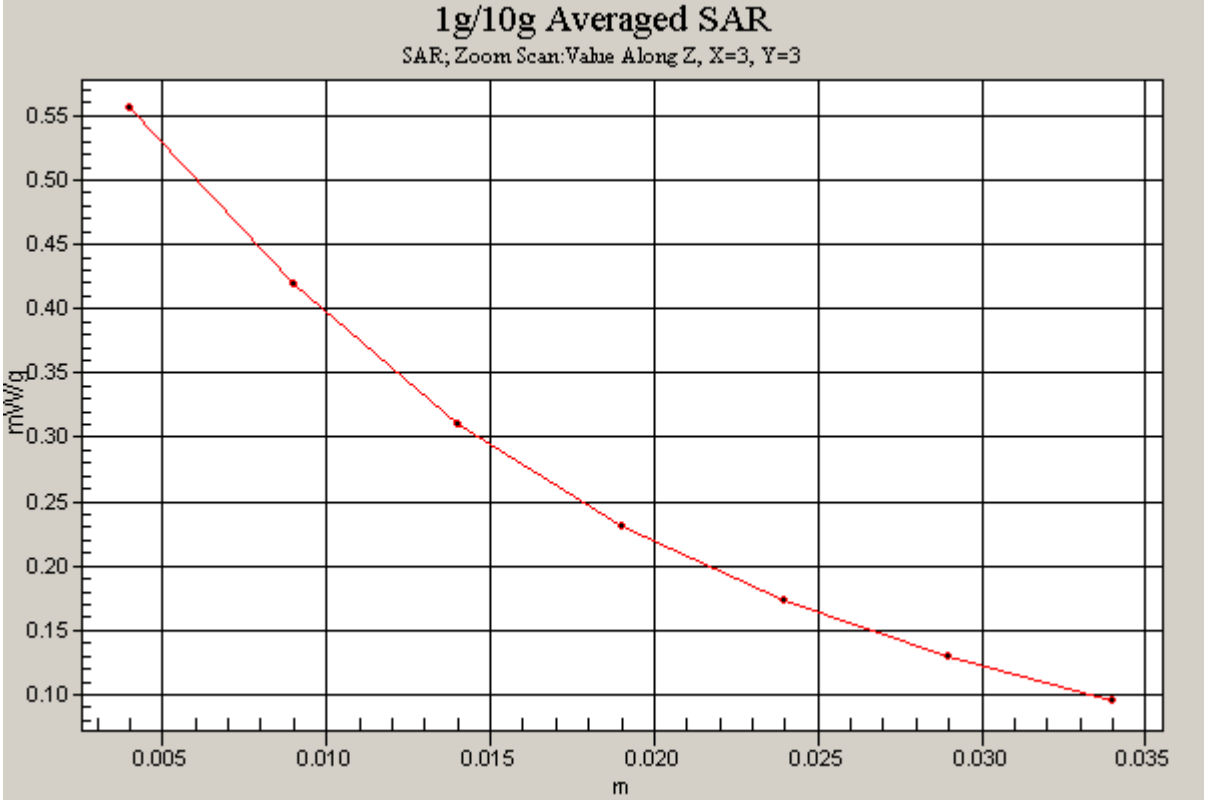


Figure 155 Z-Scan at power reference point (Body with Bluetooth earphone, Towards Ground, Open
WCDMA Band V, Channel 4182

WCDMA Band V Left Cheek High Close

Communication System: WCDMA Band V; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 847 MHz; σ = 0.947 mho/m; ε_r = 42.8; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Cheek High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.242 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.96 V/m; Power Drift = -0.062 dB
Peak SAR (extrapolated) = 0.289 W/kg
SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.169 mW/g
Maximum value of SAR (measured) = 0.240 mW/g

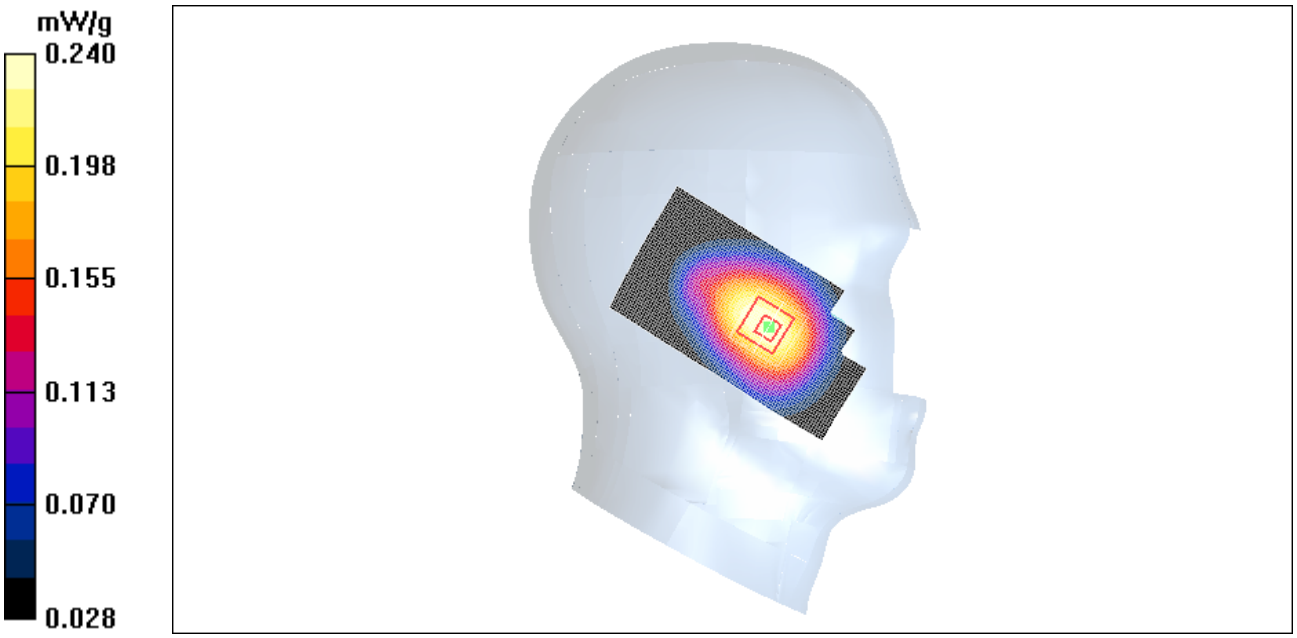


Figure 156Left Hand Touch Cheek Close WCDMA Band V Channel 4233

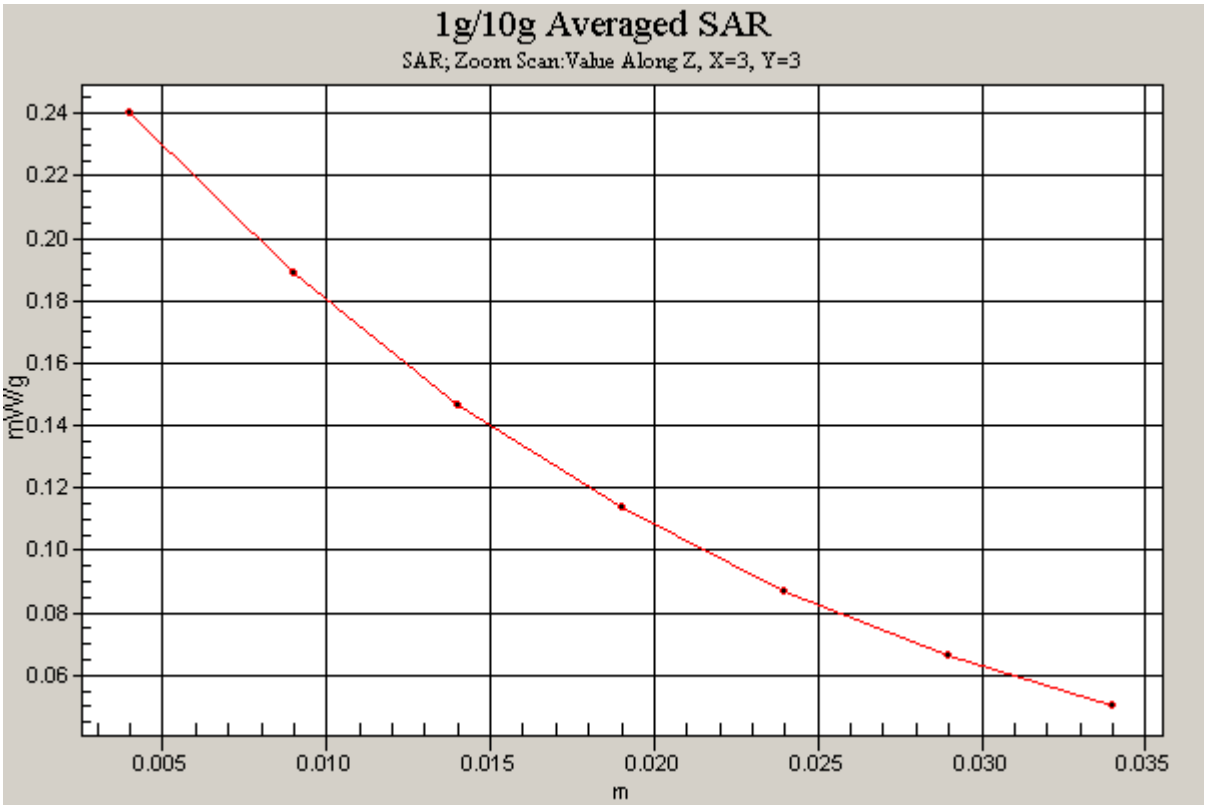


Figure 157 Z-Scan at power reference point (Left Hand Touch Cheek Close WCDMA Band V Channel 4233)

WCDMA Band V Left Cheek Middle Close

Communication System: WCDMA Band V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.936 mho/m; ε_r = 42.9; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Cheek Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.201 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.06 V/m; Power Drift = 0.022 dB
Peak SAR (extrapolated) = 0.245 W/kg
SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.143 mW/g
Maximum value of SAR (measured) = 0.201 mW/g

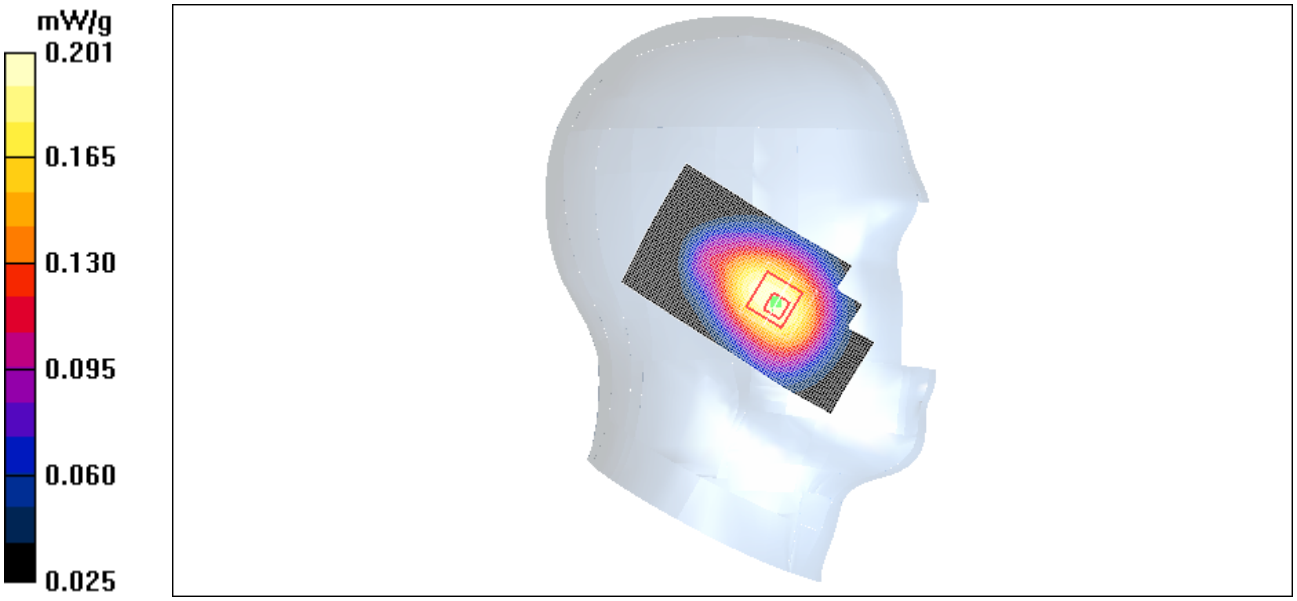


Figure 158 Left Hand Touch Cheek Close WCDMA Band V Channel 4182

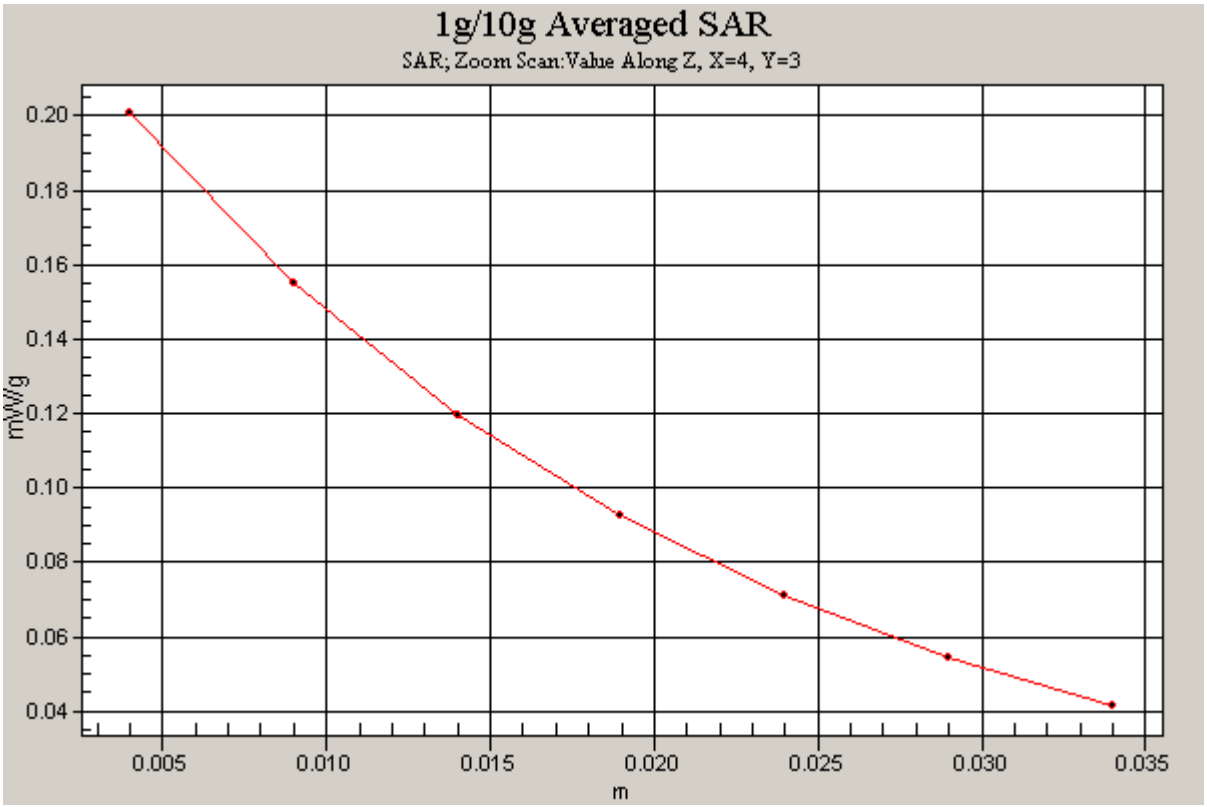


Figure 159 Z-Scan at power reference point (Left Hand Touch Cheek Close WCDMA Band V Channel 4182)

WCDMA Band V Left Cheek Low Close

Communication System: WCDMA Band V; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.923 mho/m; ε_r = 43.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Cheek Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.219 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.47 V/m; Power Drift = 0.011 dB
Peak SAR (extrapolated) = 0.262 W/kg
SAR(1 g) = 0.208 mW/g; SAR(10 g) = 0.154 mW/g
Maximum value of SAR (measured) = 0.218 mW/g

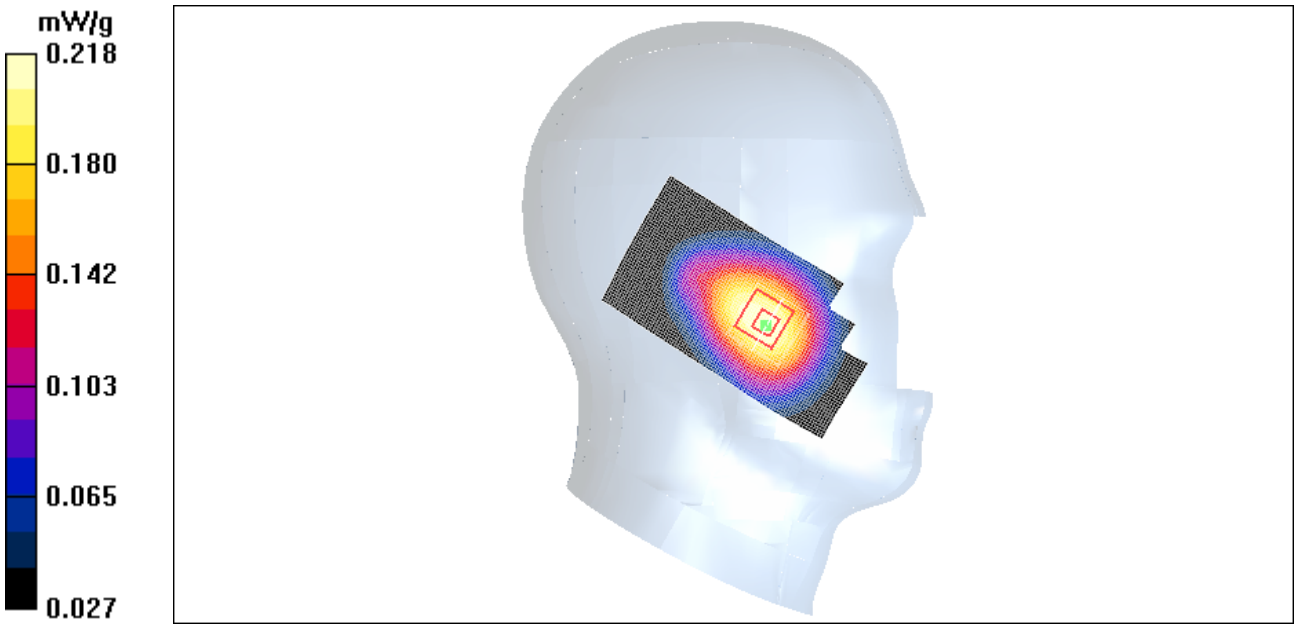


Figure 160 Left Hand Touch Cheek Close WCDMA Band V Channel 4132

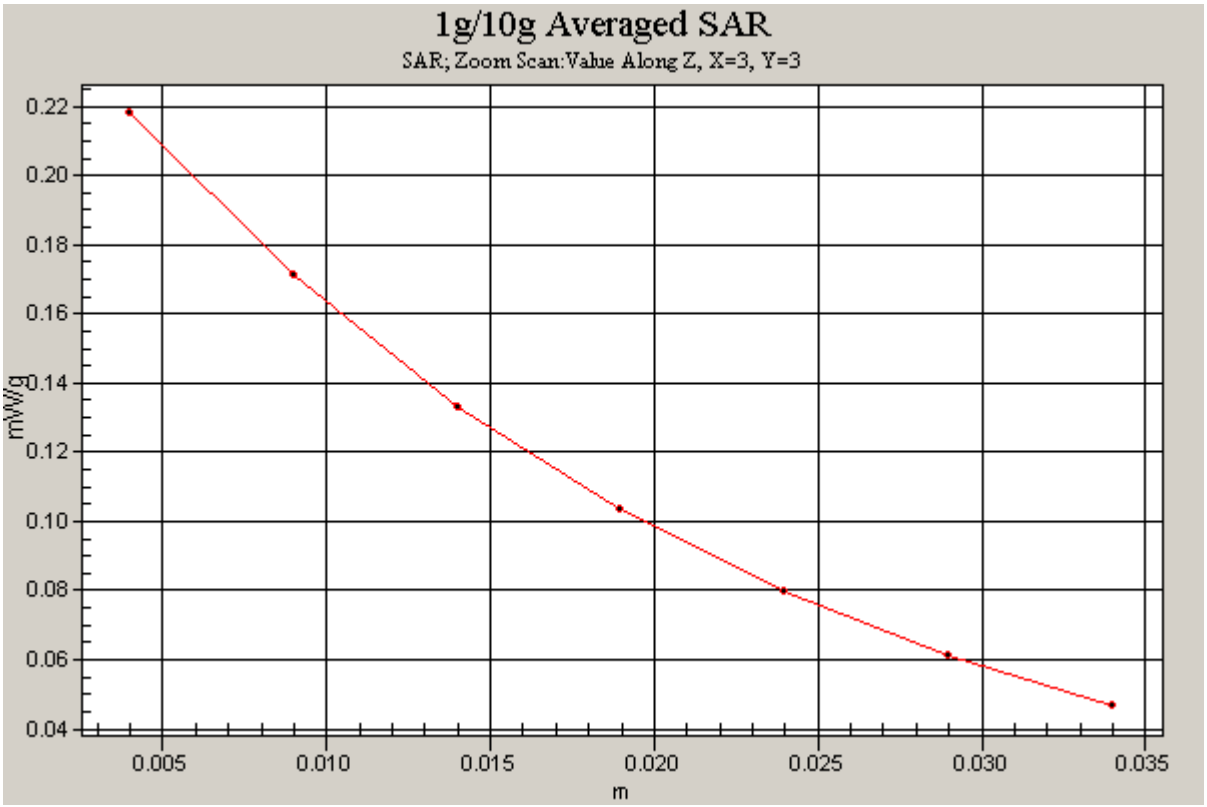


Figure 161 Z-Scan at power reference point (Left Hand Touch Cheek Close WCDMA Band V Channel 4132)

WCDMA Band V Left Tilt High Close

Communication System: WCDMA Band V; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 847 MHz; σ = 0.947 mho/m; ε_r = 42.8; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Tilt High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.170 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.0 V/m; Power Drift = -0.004 dB
Peak SAR (extrapolated) = 0.216 W/kg
SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.118 mW/g
Maximum value of SAR (measured) = 0.174 mW/g

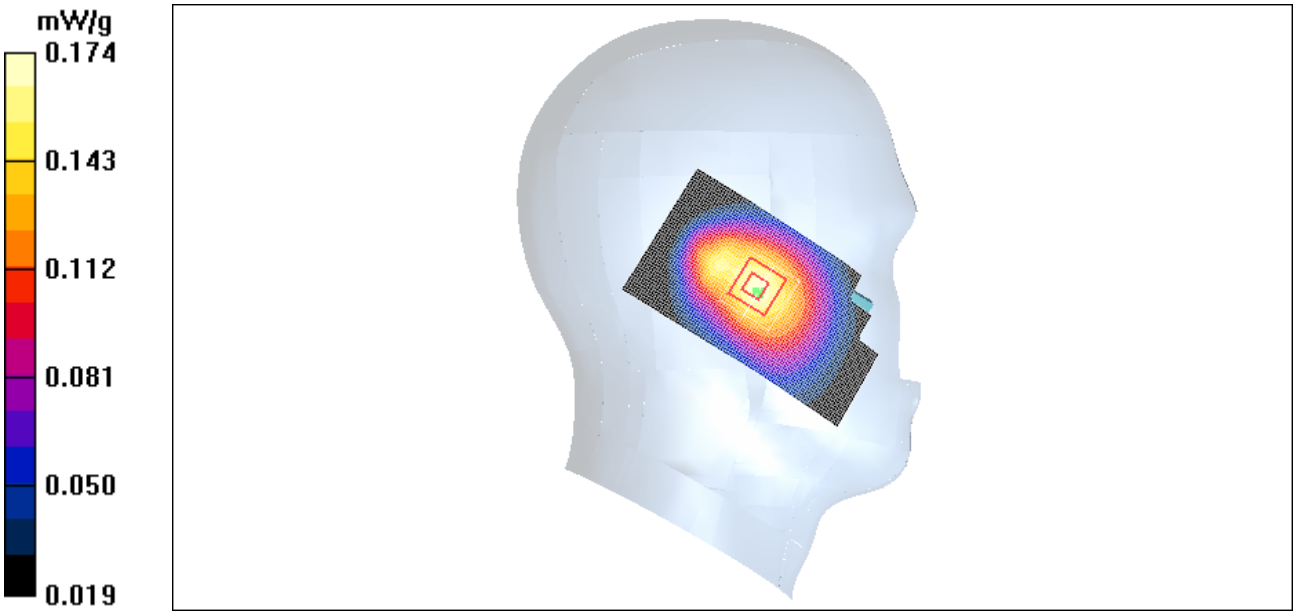


Figure 162 Left Hand Tilt 15°Close WCDMA Band V Channel 4233

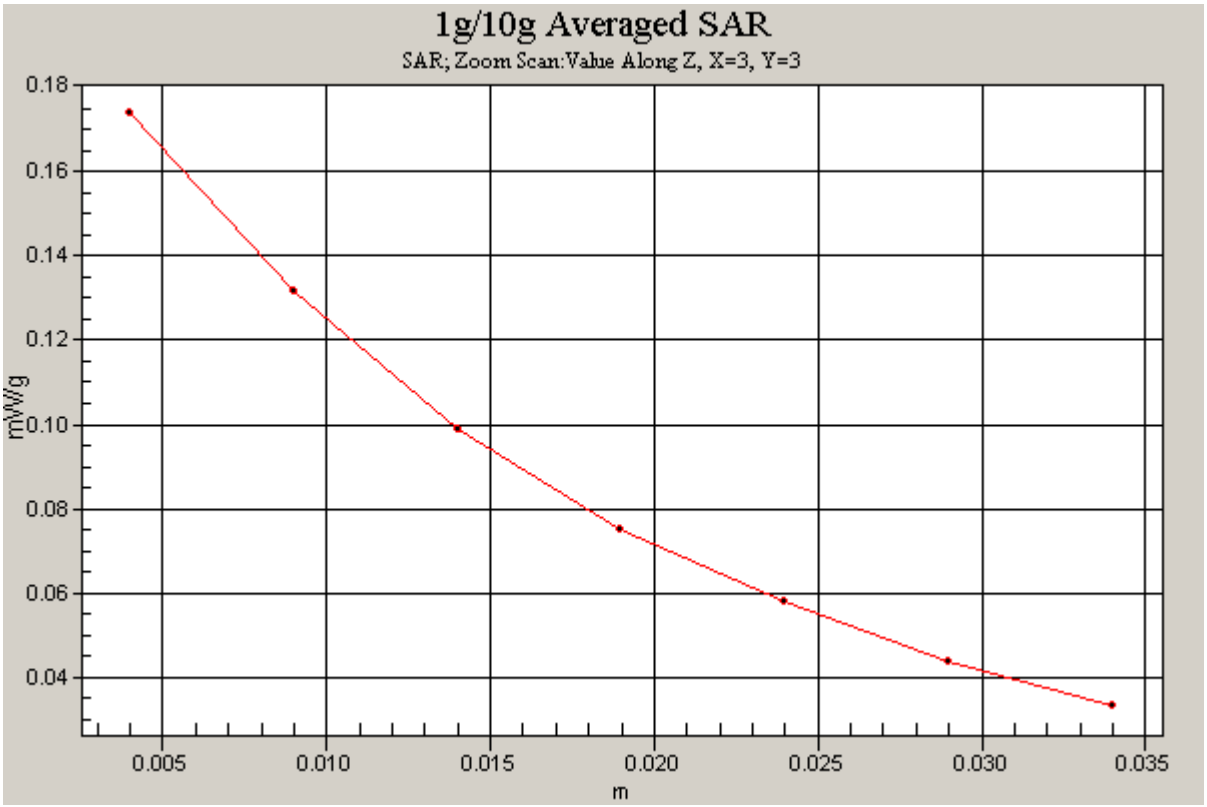


Figure 163 Z-Scan at power reference point (Left Hand Tilt 15°Close WCDMA Band V Channel 4233)

WCDMA Band V Left Tilt Middle Close

Communication System: WCDMA Band V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.936 mho/m; ε_r = 42.9; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Tilt Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.147 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.3 V/m; Power Drift = 0.019 dB
Peak SAR (extrapolated) = 0.188 W/kg
SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.102 mW/g
Maximum value of SAR (measured) = 0.152 mW/g

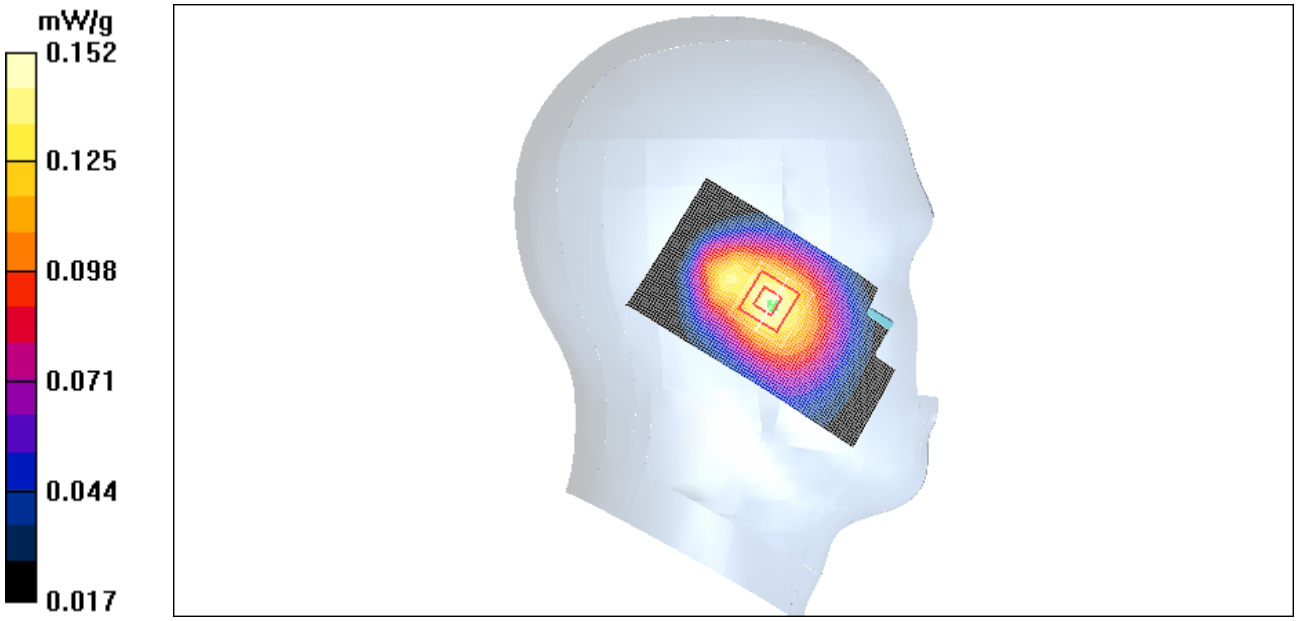


Figure 164 Left Hand Tilt 15 ° Close WCDMA Band V Channel 4182

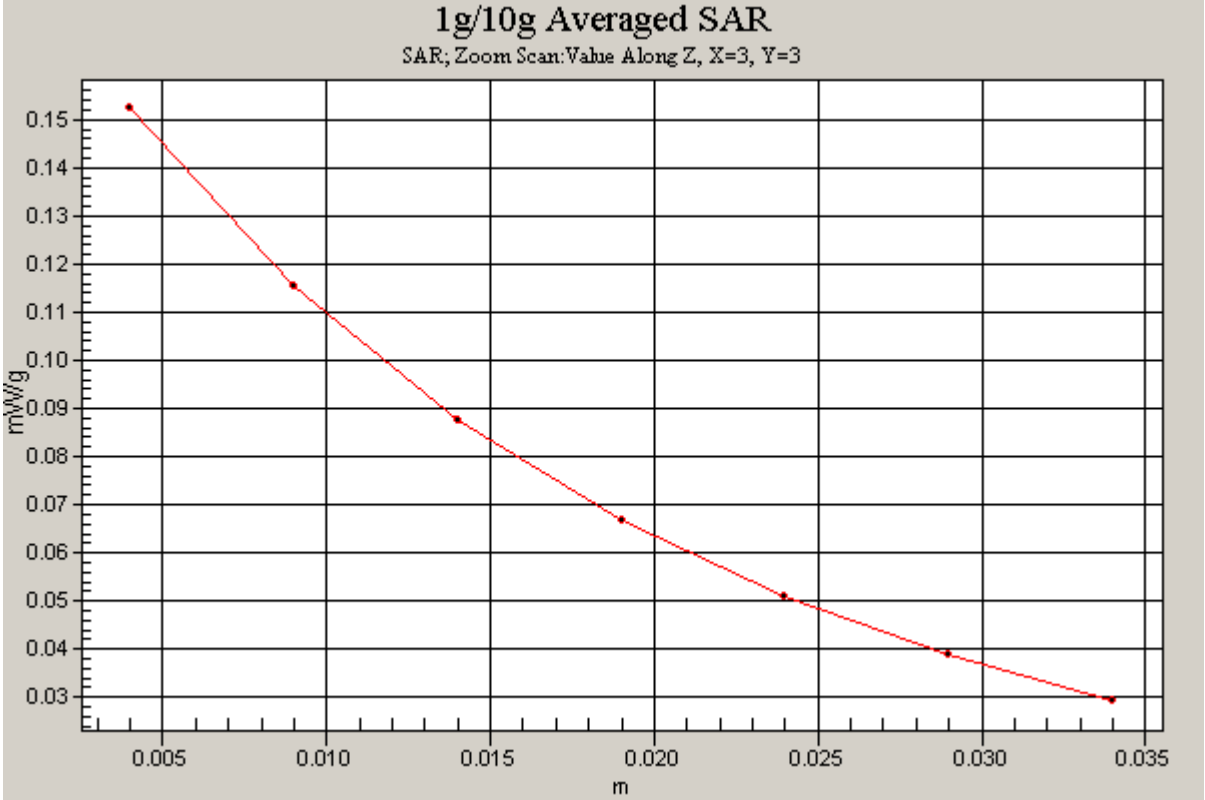


Figure 165 Z-Scan at power reference point (Left Hand Tilt 15 ° Close WCDMA Band V Channel 4182)

WCDMA Band V Left Tilt Low Close

Communication System: WCDMA Band V; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.923 mho/m; ε_r = 43.1; ρ = 1000 kg/m^3
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;
Tilt Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.159 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.8 V/m; Power Drift = -0.009 dB
Peak SAR (extrapolated) = 0.200 W/kg
SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.110 mW/g
Maximum value of SAR (measured) = 0.161 mW/g

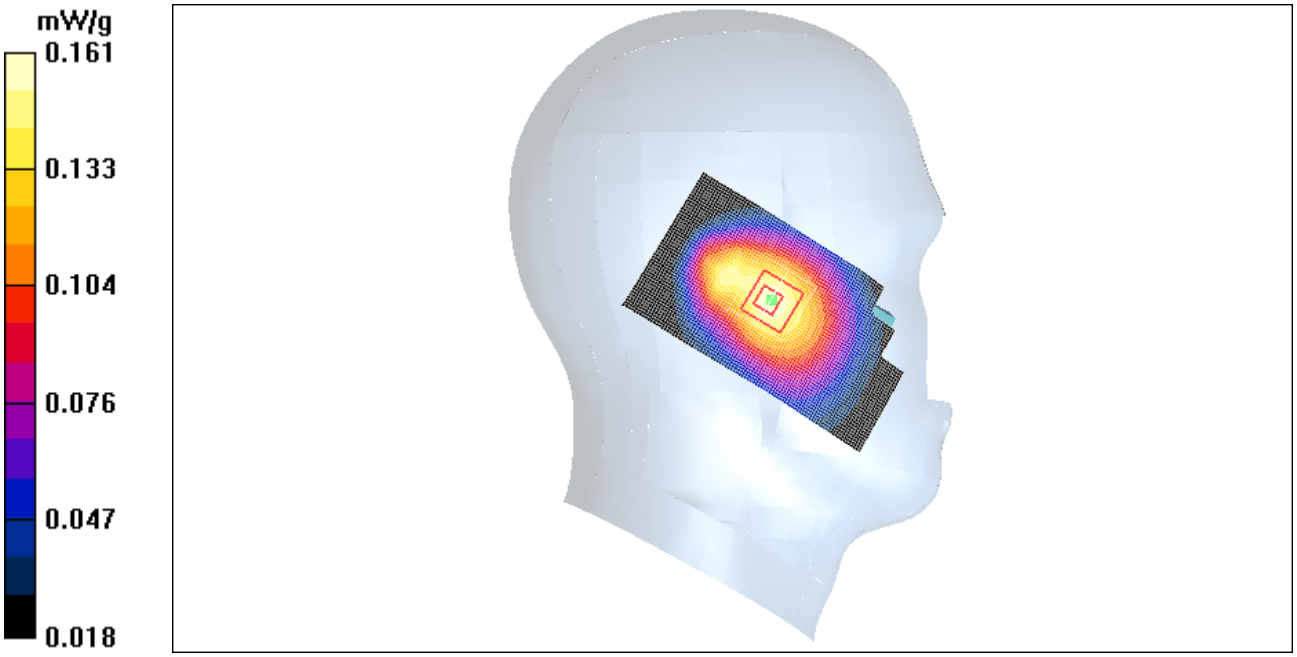


Figure 166 Left Hand Tilt 15 ° Close WCDMA Band V Channel 4132

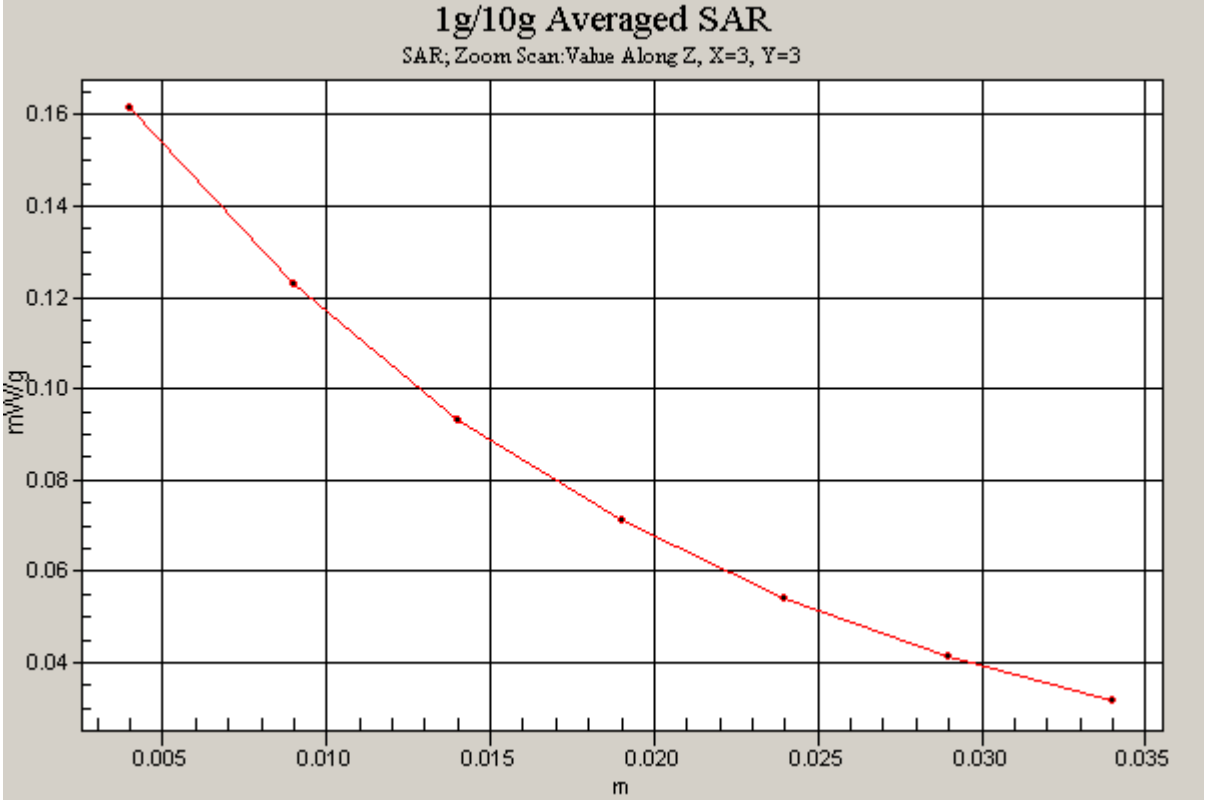


Figure 167 Z-Scan at power reference point (Left Hand Tilt 15 ° Close WCDMA Band V Channel 4132)