



NO.: RZA2008-0329FCC



(No. CNAS L2264)

OET 65

TEST REPORT

Test name	Electromagnetic Field (Specific Absorption Rate)
Product	WCDMA/GPRS/GSM/EDGE Mobile Phone With Bluetooth
Model	U3307
FCC ID	QISU3307
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	U3307
Client	Huawei Technologies Co., Ltd.	Type of test	Entrusted
Manufacturer	Huawei Technologies Co., Ltd.	Arrival Date of sample	Mar. 17 th , 2008
Place of sampling	(Blank)	Carrier of the samples	Yan Xie
Quantity of the samples	One	Date of product	(Blank)
Base of the samples	(Blank)	Items of test	SAR
Series number	V82AB10820100198		
Standard(s)	<p>EN 50360–2001: Product standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones.</p> <p>EN 50361–2001: Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones.</p> <p>ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz</p> <p>IEEE 1528–2003: Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques.</p> <p>OET Bulletin 65 (Edition 97-01) and Supplement C (Edition 01-01): Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits.</p> <p>IEC 62209-1: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures –Part 1: 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)</p>		
Conclusion	<p>Localized Specific Absorption Rate (SAR) of this portable wireless equipment has been measured in all cases requested by the relevant standards cited in Clause 6.2 of this test report. Maximum localized SAR is below exposure limits specified in the relevant standards cited in Clause 6.1 of this test report.</p> <p>General Judgment: Pass</p> <p style="text-align: right;">(Stamp) Date of issue: Mar.28th 2008</p>		
Comment	<p>TX Freq. Band: GSM1900 WCDMA V</p> <p>Max. Power: 1Watt 0.25Watt</p> <p>The test result only responds to the measured sample.</p>		

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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	IMEI/SN	Manufacturer
WCDMA/GPRS/GSM/EDGE Mobile Phone With Bluetooth	U3307	V82AB10820100198	Huawei Technologies Co., Ltd.
Lithium Battery	HBU570	FMT7B010398Y	FMT Electronics Co.,Ltd.
AC/DC Adapter	TPCA-050065UY	UEP750400357	TECH-POWER INTERNATIONAL CO.,LTD
	CHG5065-3C	HKY811000036	Shenzhen Chi Yuan Industrial Co., Ltd.

Note:

The EUT appearances see ANNEX H.

3.3 General Description

Equipment Under Test (EUT) is a portable Mobile phone with internal antenna. It consists of Handset, Lithium Battery and AC/DC Adapter. The detail about Mobile phone, Lithium Battery and AC/DC Adapter is in the Table 3. Since it is a GSM1900 /WCDMA Band V Mobile phone, SAR is tested respectively for two bands. It has the GPRS/EGPRS and Bluetooth functions; the GPRS/EGPRS class is 10.

The sample undergoing test was selected by the Client.

Components list please refer to documents of the manufacturer

4 OPERATIONAL CONDITIONS DURING TEST

4.1 Test to be performed

During SAR test, EUT is in Traffic Mode (Channel Allocated). A communication link is set up with a System Simulator (SS) by air link, and a call is established. The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 512, 661, 810 respectively in the case of GSM 1900, and 4132, 4182, 4233 respectively in the case of WCDMA Band V. The EUT is commanded to operate at maximum transmitting 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 WCDMA Test Configuration

4.2.1 Output Power Verification

For measurement in WCDMA, we established the radio link through call processing. The maximum output power were verified on high, middle and low channels for each test band according to 3GPP TS 34.121 with the following configuration (Please see 8.3.2 Table 7 for the above detailed power measurement results):

- 1) 12.2kbps RMC, 64,144,384 kbps RMC with TPC set to all "1's"
- 2) Test loop Mode 1

For the output power, the configurations for the DPCCH and DPDCH1 are as followed (EUT do not support the DPDCH_{2-n})

	Channel Bit Rate(kbps)	Channel Symbol Rate(ksps)	Spreading Factor	Spreading Code Number	Bits/Slot
DPCCH	15	15	256	0	10
DPDCH ₁	15	15	256	64	10
	30	30	128	32	20
	60	60	64	16	40
	120	120	32	8	80
	240	240	16	4	160
	480	480	8	2	320
	960	960	4	1	640

4.2.2 Head SAR Measurement

SAR is tested with 12.2kps RMC and not required for other spreading codes (64,144, and 384 kbps RMC) and multiple DPDCH_n, because the maximum output power for each of these other configurations < 0.25dB higher than 12.2kbps RMC and the multiple DPDCH_n is not applicable for the EUT.

4.2.3 Body SAR Measurement

SAR for body exposure configuration in voice and data models is measured using a 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 codes 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 RMC.

4.3 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 level is set to "0" in head SAR and body SAR of GSM1900,

Since the EUT not only has the data transfer function, but also have the speech transfer function.

The tests in the band of GSM 1900 are performed in the mode of speech transfer function and GPRS. And since the GPRS class is 10 for this EUT, it has at most 2 timeslots in uplink. According to specification 3GPP TS 51.010, the maximum power of the GSM can do the power reduction for the multi-slot. The allowed power reduction in the multi-slot configuration is as following:

Number of timeslots in uplink assignment	Permissible nominal reduction of maximum output power,(dB)
1	0
2	0 to 3,0

For this EUT, the tests for GSM 1900 GPRS band will be performed under the following 2 setups at one same test position:

- 1) Using 1 timeslot in uplink with the power of 30 dBm for GSM1900
- 2) Using 2 timeslots in uplink with the power reduced 2dB

After drawn the worst case, the tests will be continued to perform with the same EUT setup for the whole tests for GSM 1900 GPRS.

And according to the "2 dB rule" specified in the OET Bulletin 65 (Edition 97-01) and Supplement C (Edition 01-01), " **If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tile/Ear, extended and retracted) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s)**".

Then The Absolute Radio Frequency Channel Number (ARFCN) is firstly allocated to 4182, and 661 respectively in the case of WCDMA Band V and GSM 1900 then to low and high if necessary.

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 $\pm 0.02\text{mm}$. 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 2000 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.

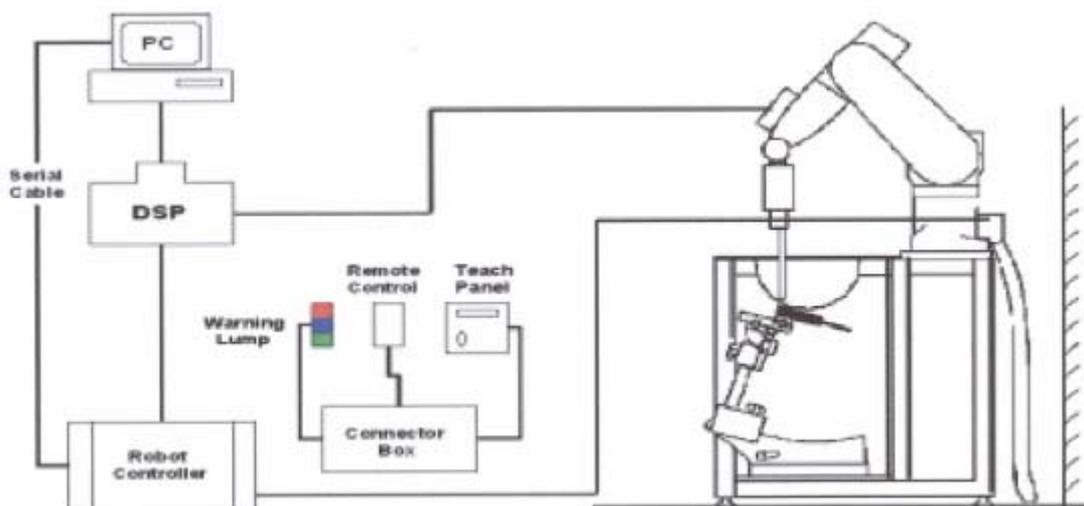


Figure1. SAR Lab Test Measurement Set-up

The DAE3 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 $\pm 10\%$. The spherical isotropy was evaluated and found to be better than $\pm 0.25\text{dB}$.

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.g., 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 $\pm 8\%$) Calibration for other liquids and frequencies upon request
Frequency	10 MHz to > 6 GHz; Linearity: ± 0.2 dB (30 MHz to 3 GHz)
Directivity	± 0.2 dB in brain tissue (rotation around probe axis) ± 0.4 dB in brain tissue (rotation normal probe axis)
Dynamic Range	5u W/g to > 100mW/g; Linearity: ± 0.2 dB
Surface Detection	± 0.2 mm repeatability in air and clear liquids over diffuse reflecting surface(ET3DV6 only)
Dimensions	Overall length: 330mm Tip length: 16mm Body diameter: 12mm Tip diameter: 6.8mm Distance from probe tip to dipole centers: 2.7mm
Application	General dosimetry up to 3GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

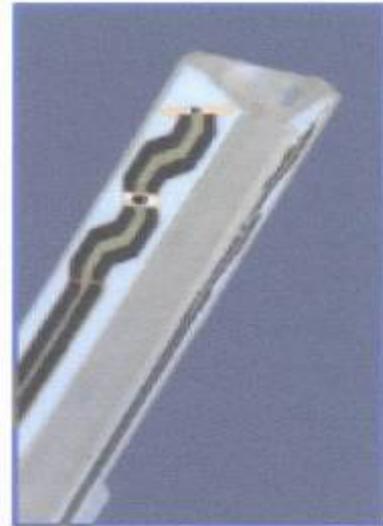


Figure2. ET3DV6 E-field Probe

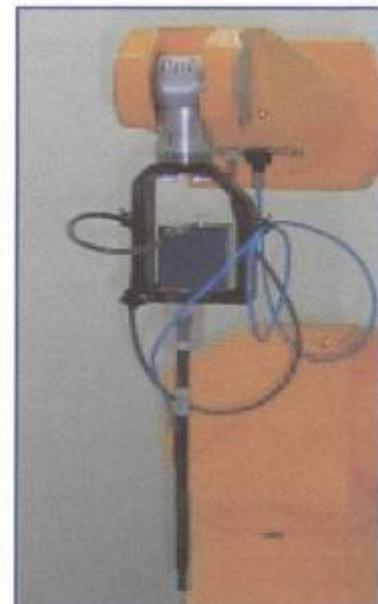


Figure3. ET3DV6 E-field probe

5.3 E-field Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy was evaluated and found to be better than $\pm 0.25\text{dB}$. 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 below 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.

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

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

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

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

5.4 Other Test Equipment

5.4.1 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).



Figure4. Device Holder

5.4.2 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 1000 x 500 mm (H x L x W)
 Available Special



Figure5. Generic Twin Phantom

5.5 Equivalent Tissues

The liquid used for the frequency range of 800-2000 MHz consisted of water, sugar, salt, Glycol monobutyl, Preventol and Cellulose. The liquid has previously been proven to be suited for worst-case. The Table 4 and Table 5 show the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528.

Table 4: 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 $\epsilon=41.5$ $\sigma=0.9$

MIXTURE%	FREQUENCY(Brain) 1900MHz
Water	54.90
Glycol monobutyl	44.92
Salt	0.18
Dielectric Parameters Target Value	f=1900MHz $\epsilon=40.0$ $\sigma=1.40$

Table 5: 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 $\epsilon=55.2$ $\sigma=0.97$

MIXTURE%	FREQUENCY(Body) 1900MHz
Water	69.91
Glycol monobutyl	29.96
Salt	0.13
Dielectric Parameters Target Value	f=1900MHz $\epsilon=53.3$ $\sigma=1.52$

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 2000

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.

6 CHARACTERISTICS OF THE TEST

6.1 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 C95.1–1999: 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.

6.2 Applicable Measurement Standards

EN 50361–2001: Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones.

It specifies the measurement method for demonstration of compliance with the SAR limits for such equipments.

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

OET Bulletin 65 (Edition 97-01) and Supplement C (Edition 01-01): Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits.

IEC 62209-1: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures –Part 1: 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)

7 LABORATORY ENVIRONMENT

Table 6: 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.	

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 within 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 11 to Table 30 Labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

8.3 Conducted Power

8.2.1 Measurement Methods

The EUT was set up for the maximum output power. The channel power was measured. These measurements were done at 3 channels 512, 661 and 810 of GSM 1900, 3 channels 4132, 4182, 4233 of WCDMA Band V before SAR test and after SAR test.

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8.2.2 Measurement result

Table 7: Conducted Power Measurement Results

WCDMA Band V (12.2kbps RMC)	Conducted Power		
	Channel 4132 (826.4MHz)	Channel 4182 (836.4MHz)	Channel 4233 (846.6MHz)
Before test	22.56	22.63	22.45
After test	22.57	22.63	22.44

WCDMA Band V (64kbps RMC)	Conducted Power		
	Channel 4132 (826.4MHz)	Channel 4182 (836.4MHz)	Channel 4233 (846.6MHz)
Before test	22.57	22.63	22.44
After test	22.55	22.64	22.45

WCDMA Band V (144kbps RMC)	Conducted Power		
	Channel 4132 (826.4MHz)	Channel 4182 (836.4MHz)	Channel 4233 (846.6MHz)
Before test	22.55	22.60	22.45
After test	22.49	22.61	22.46

WCDMA Band V (384kbps RMC)	Conducted Power		
	Channel 4132 (826.4MHz)	Channel 4182 (836.4MHz)	Channel 4233 (846.6MHz)
Before test	22.59	22.67	22.48
After test	22.60	22.65	22.48

GSM 1900	Conducted Power		
	Channel 512 (1850.2MHz)	Channel 661 (1880MHz)	Channel 810 (1909.8MHz)
Before test	28.77	29.01	28.93
After test	27.79	29.02	28.93

GSM 1900+GPRS	Conducted Power		
	Channel 512 (1850.2MHz)	Channel 661 (1880MHz)	Channel 810 (1909.8MHz)
Before test	28.79	29.02	28.95
After test	28.80	29.03	28.95

9 TEST RESULTS

9.1 Dielectric Performance

Table 8: Dielectric Performance of Head Tissue Simulating Liquid

Measurement is made at temperature 22.5 °C and relative humidity 51%. Liquid temperature during the test: 22.3°C					
Frequency (MHz)		Target value	Measurement value	Difference percentage	
835 (Body)	Permittivity ϵ_r	41.50	42.60	2.65	%
	Conductivity σ	0.90	0.94	4.44	%
1900 (Body)	Permittivity ϵ_r	40.00	39.59	-1.03	%
	Conductivity σ	1.40	1.42	1.43	%

Table 9: Dielectric Performance of Body Tissue Simulating Liquid

Measurement is made at temperature 22.5 °C and relative humidity 51%. Liquid temperature during the test: 22.3°C					
Frequency (MHz)		Target value	Measurement value	Difference percentage	
835 (Body)	Permittivity ϵ_r	55.20	55.10	-0.18	%
	Conductivity σ	0.97	0.99	2.06	%
1900 (Body)	Permittivity ϵ_r	53.30	52.50	-1.50	%
	Conductivity σ	1.52	1.54	1.32	%

9.2 System Validation

Table 10: System Validation

Measurement is made at temperature 23.2 °C, relative humidity 50%, and input power 250 mW. Liquid temperature during the test: 22.3°C							
Liquid parameters	Frequency	Permittivity ϵ		Conductivity σ (S/m)			
	835MHz	40.2		0.89			
	1900MHz	39.5		1.46			
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	1 g Average
	835MHz	1.56	2.43	1.53	2.34	-1.92%	-3.70%
	1900MHz	4.94	9.35	4.93	9.36	-0.20%	0.11%

Note:

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

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9.3 Summary of Measurement Results

Table 11: SAR Values (GSM 1900, 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	± 0.2	
Test Case Of Head		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Left hand, Touch cheek	High	0.144	0.253	0.169	Figure7
	Middle	0.182	0.314	0.054	Figure9
	Low	0.224	0.383	-0.066	Figure11
Left hand, Tilt 15 Degree	High	0.072	0.113	-0.108	Figure13
	Middle	0.093	0.145	-0.128	Figure15
	Low	0.114	0.176	-0.056	Figure17
Right hand, Touch cheek	High	0.119	0.197	-0.047	Figure19
	Middle	0.158	0.259	0.026	Figure21
	Low	0.191	0.308	0.142	Figure23
Right hand, Tilt 15 Degree	High	0.089	0.147	0.072	Figure25
	Middle	0.114	0.185	-0.015	Figure27
	Low	0.138	0.221	0.001	Figure29

Table 12: SAR Values (GSM 1900, Body, Open, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Towards the Ground	High	0.167	0.302	0.051	Figure31
	Middle	0.181	0.323	-0.056	Figure33
	Low	0.195	0.340	-0.121	Figure35
Towards the Phantom	High	0.064	0.105	0.015	Figure37
	Middle	0.084	0.128	0.139	Figure39
	Low	0.112	0.168	0.021	Figure41

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Table 13: SAR Values (GSM 1900, Body with earphone, Open, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Towards the Ground	Low	0.188	0.339	-0.160	Figure43

Table 14: SAR Values (GSM 1900, Body with Bluetooth earphone, Open, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Towards the Ground	Low	0.176	0.314	-0.052	Figure45

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Table 15: SAR Values (GSM 1900 GPRS, Body, Open, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Towards the Ground	High	0.302	0.543	-0.091	Figure47
	Middle	0.324	0.582	-0.148	Figure49
	Low	0.399	0.622	-0.183	Figure51
Towards the Phantom	High	0.126	0.206	-0.005	Figure53
	Middle	0.160	0.246	0.180	Figure55
	Low	0.211	0.329	-0.015	Figure57

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

Table 16: SAR Values (GSM 1900 EGPRS, Body, Open, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Towards the Ground	Low	0.156	0.273	0.002	Figure59

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Table 17: SAR Values (GSM 1900, 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	± 0.2	
Test Case Of Head		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Left hand, Touch cheek	High	0.120	0.185	-0.129	Figure61
	Middle	0.149	0.234	-0.024	Figure63
	Low	0.192	0.303	0.090	Figure65
Left hand, Tilt 15 Degree	High	0.081	0.136	-0.111	Figure67
	Middle	0.087	0.145	-0.030	Figure69
	Low	0.100	0.164	0.018	Figure71
Right hand, Touch cheek	High	0.136	0.225	0.009	Figure73
	Middle	0.164	0.267	-0.041	Figure75
	Low	0.210	0.341	0.112	Figure77
Right hand, Tilt 15 Degree	High	0.099	0.167	0.144	Figure79
	Middle	0.106	0.180	0.063	Figure81
	Low	0.126	0.212	-0.004	Figure83

Table 18: SAR Values (GSM 1900, Body, Close, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Towards the Ground	High	0.239	0.445	-0.152	Figure85
	Middle	0.254	0.471	0.190	Figure87
	Low	0.283	0.529	0.021	Figure89
Towards the Phantom	High	0.046	0.071	-0.150	Figure91
	Middle	0.052	0.079	0.035	Figure93
	Low	0.062	0.093	0.048	Figure95

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Table 19: SAR Values (GSM 1900, Body with earphone, Close, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel				
Towards the Ground	Low	0.264	0.483	0.100	Figure97

Table 20: SAR Values (GSM 1900, Body with Bluetooth earphone, Close, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel				
Towards the Ground	Low	0.250	0.457	-0.048	Figure99

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Table 21: SAR Values (GSM 1900 GPRS, Body, Close, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel				
Towards the Ground	High	0.388	0.711	-0.151	Figure101
	Middle	0.431	0.786	-0.001	Figure103
	Low	0.454	0.827	-0.007	Figure105
Towards the Phantom	High	0.109	0.170	-0.034	Figure107
	Middle	0.113	0.174	-0.143	Figure109
	Low	0.140	0.213	0.053	Figure111

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

Table 22: SAR Values (GSM 1900 EGPRS, Body, Close, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel				
Towards the Ground	Low	0.208	0.379	-0.123	Figure113

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Table 23: SAR Values (WCDMA Band V, 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	± 0.2	
Test Case Of Head		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Left hand, Touch cheek	High	0.149	0.208	0.105	Figure115
	Middle	0.155	0.216	-0.138	Figure117
	Low	0.097	0.135	0.001	Figure119
Left hand, Tilt 15 Degree	High	0.072	0.098	0.069	Figure121
	Middle	0.082	0.112	-0.094	Figure123
	Low	0.053	0.072	0.075	Figure125
Right hand, Touch cheek	High	0.159	0.219	-0.108	Figure127
	Middle	0.177	0.247	0.141	Figure129
	Low	0.107	0.150	-0.065	Figure131
Right hand, Tilt 15 Degree	High	0.080	0.110	0.151	Figure133
	Middle	0.095	0.131	-0.050	Figure135
	Low	0.059	0.080	-0.055	Figure137

Table 24: SAR Values (WCDMA Band V, Body, Open, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Towards the Ground	High	0.244	0.336	-0.179	Figure139
	Middle	0.272	0.375	0.069	Figure141
	Low	0.174	0.246	-0.023	Figure143
Towards the Phantom	High	0.178	0.244	0.009	Figure145
	Middle	0.196	0.274	-0.047	Figure147
	Low	0.135	0.185	0.126	Figure149

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

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Table 25: SAR Values (WCDMA Band V, Body with earphone, Open, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel				
Towards the Ground	Middle	0.237	0.328	0.023	Figure151

Table26: SAR Values (WCDMA Band V, Body with Bluetooth earphone, Open, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel				
Towards the Ground	Middle	0.254	0.355	0.023	Figure153

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Table 27: SAR Values (WCDMA Band V, 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	± 0.2	
Test Case Of Head		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Left hand, Touch cheek	High	0.121	0.166	0.007	Figure155
	Middle	0.103	0.141	0.193	Figure157
	Low	0.063	0.085	-0.138	Figure159
Left hand, Tilt 15 Degree	High	0.065	0.088	0.088	Figure161
	Middle	0.057	0.076	0.019	Figure163
	Low	0.039	0.052	-0.085	Figure165
Right hand, Touch cheek	High	0.118	0.161	0.138	Figure167
	Middle	0.108	0.147	0.001	Figure169
	Low	0.066	0.088	-0.158	Figure171
Right hand, Tilt 15 Degree	High	0.075	0.103	0.053	Figure173
	Middle	0.072	0.098	0.109	Figure175
	Low	0.046	0.062	0.118	Figure177

Table 28: SAR Values (WCDMA Band V, Body, Close, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Towards the Ground	High	0.176	0.259	0.189	Figure179
	Middle	0.147	0.215	-0.003	Figure181
	Low	0.097	0.142	-0.021	Figure183
Towards the Phantom	High	0.081	0.109	-0.019	Figure185
	Middle	0.066	0.088	0.086	Figure187
	Low	0.041	0.055	-0.021	Figure189

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Table 29: SAR Values (WCDMA Band V, Body with earphone, Close, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Towards the Ground	High	0.191	0.273	0.151	Figure191

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

Table30: SAR Values (WCDMA Band V, Body with Bluetooth earphone, Close, Distance 15mm)

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	± 0.2	
Test Case Of Body		Measurement Result (W/kg)		Power Drift (dB)	
		10 g Average	1 g Average		
Different Test Position	Channel	10 g Average	1 g Average	Power Drift (dB)	
Towards the Ground	High	0.172	0.249	0.188	Figure193

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 6.2 of this report. Maximum localized SAR is below exposure limits specified in the relevant standards cited in Clause 6.1 of this test report.

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10 MEASUREMENT UNCERTAINTY

No.	a	Type	c	d	e=f(d, k)	f	h=cxf / 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-c _p) ^{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	

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11 MAIN TEST INSTRUMENTS

Table 31: 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	Validation Kit 835MHz	SPEAG D835V2	443	December 9, 2007	One year
08	Validation Kit 1900MHz	SPEAG D1900V2	5d018	April 23, 2007	One year
09	BTS	E5515C	GB46490218	September 15, 2007	One year
10	E-field Probe	ET3DV6	1531	January 29, 2008	One year
11	DAE	DAE3	452	September 6, 2007	One year

12 TEST PERIOD

The test is performed from Mar.20th, 2008 to Mar. 24th, 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 20 mm x 20 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 7 x 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.

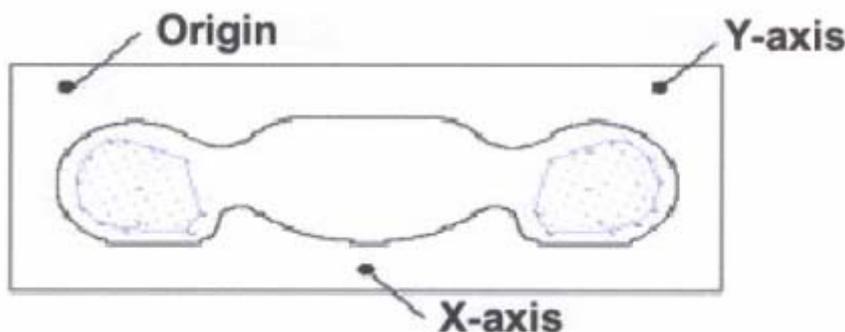


Figure6 SAR Measurement Points in Area Scan

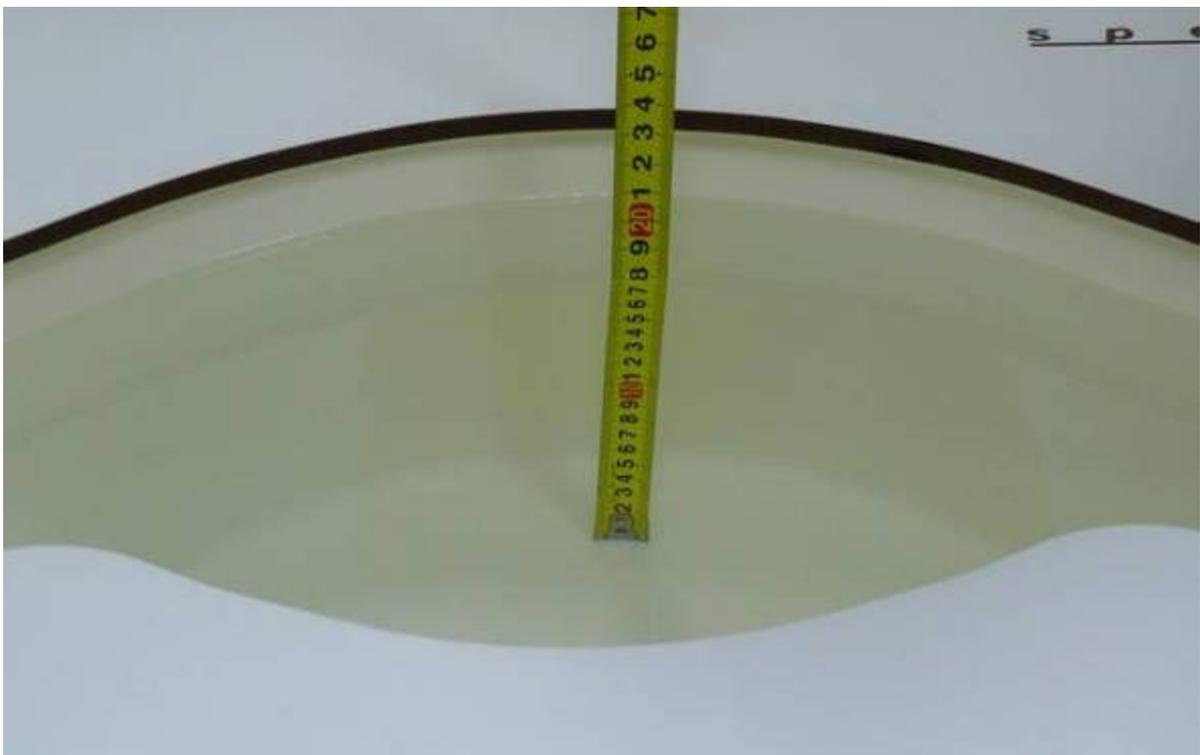
ANNEX B: TEST LAYOUT



Picture 1 Specific Absorption Rate Test Layout



Picture 2 Liquid depth in the Phantom (835 MHz)



Picture 3 Liquid depth in the 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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Cheek High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.285 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.29 V/m; Power Drift = 0.169 dB

Peak SAR (extrapolated) = 0.388 W/kg

SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.144 mW/g

Maximum value of SAR (measured) = 0.285 mW/g

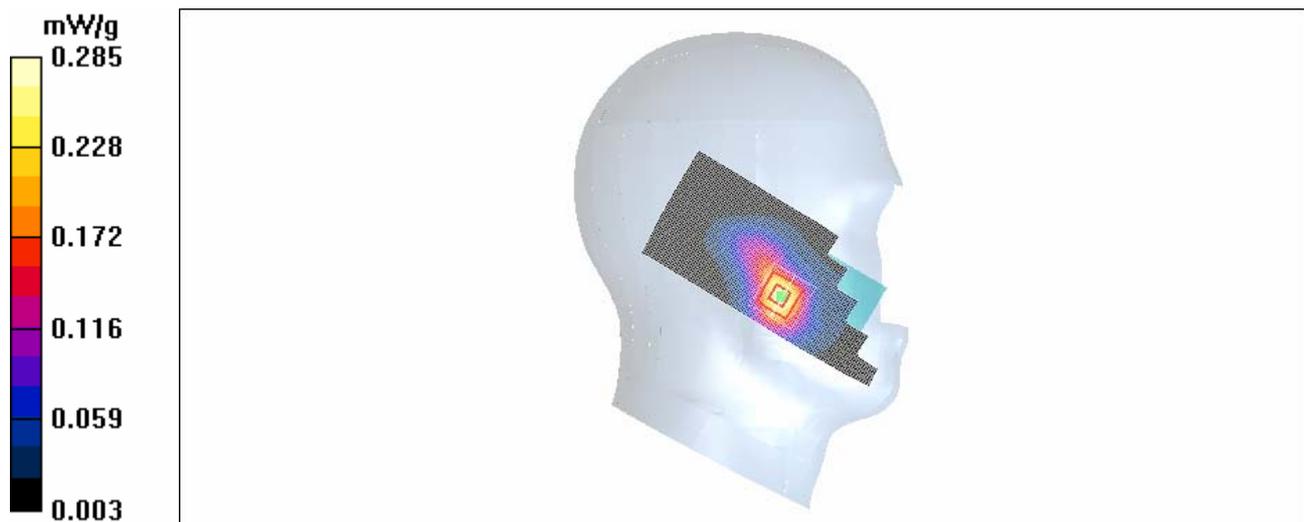


Figure 7 Left Hand Touch Cheek Open GSM 1900 Channel 810

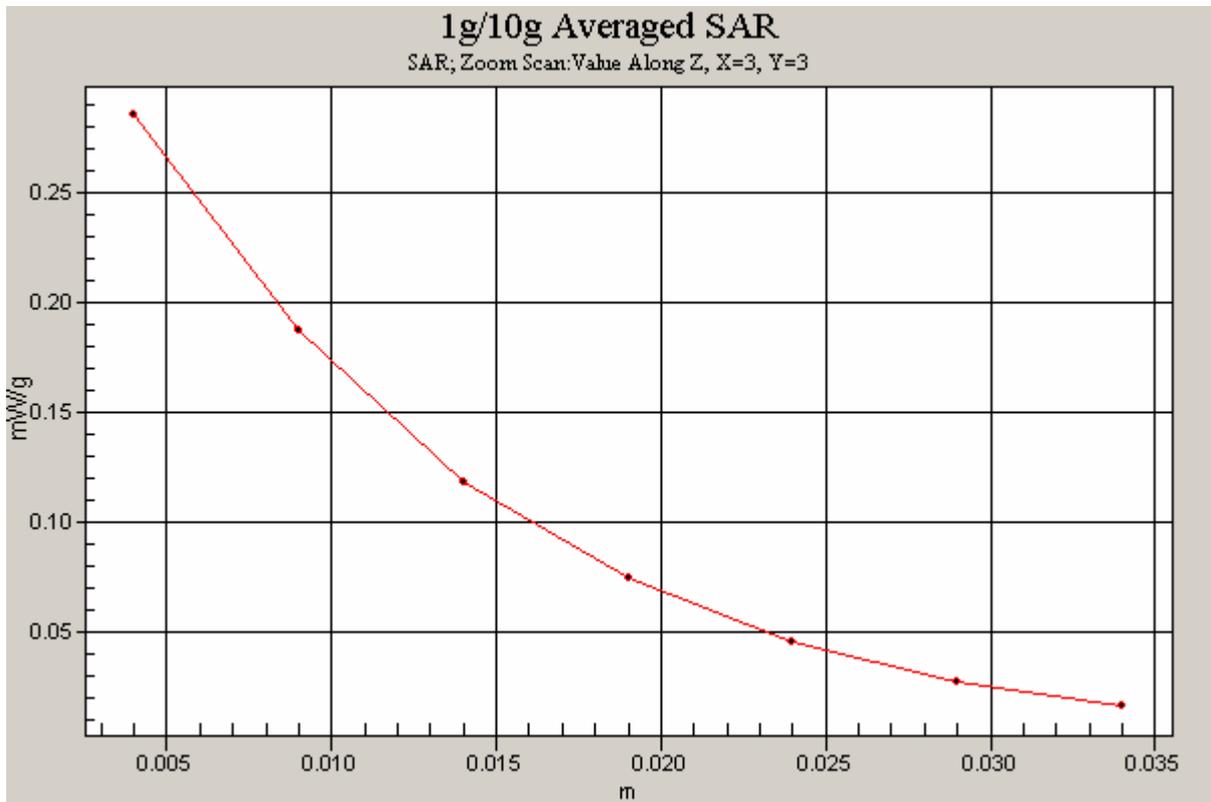


Figure 8 Z-Scan at power reference point (Left Hand Touch Cheek Open GSM 1900 Channel 810)

GSM 1900 Left Cheek Middle Open

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Cheek Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.353 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.73 V/m; Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.474 W/kg

SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.182 mW/g

Maximum value of SAR (measured) = 0.348 mW/g

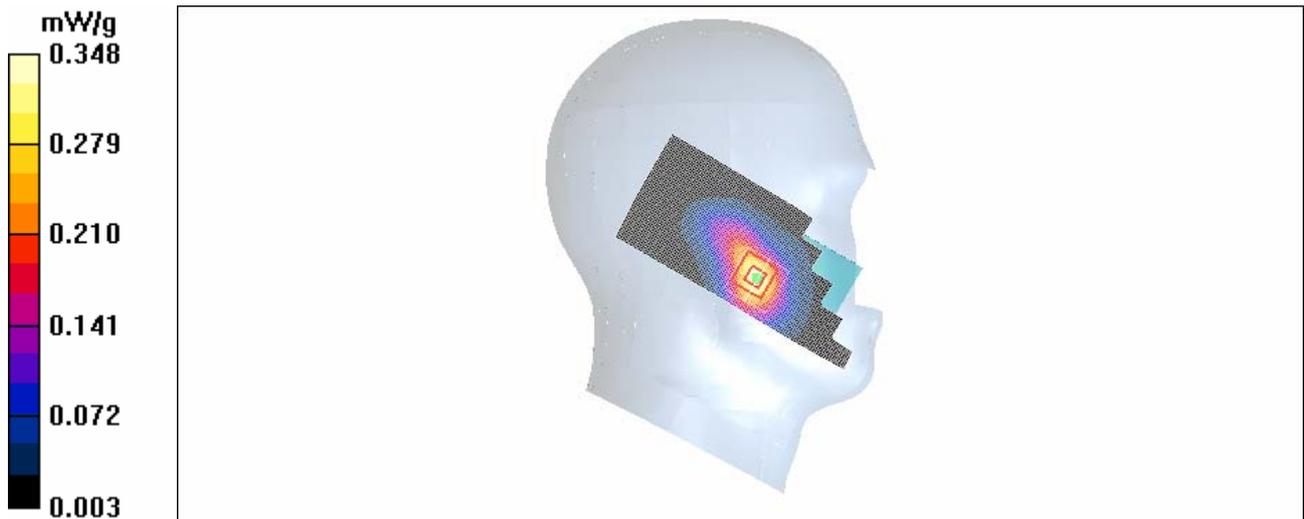


Figure 9 Left Hand Touch Cheek Open GSM 1900 Channel 661

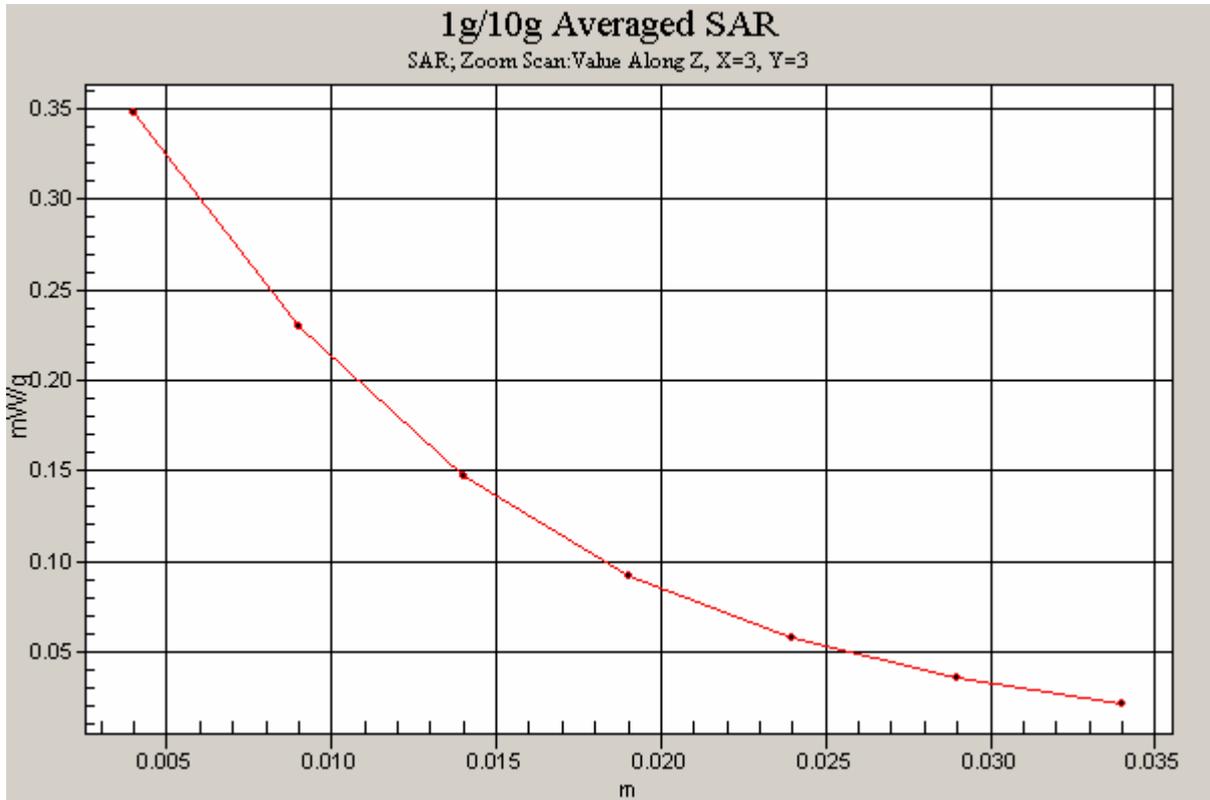


Figure 10 Z-Scan at power reference point (Left Hand Touch Cheek Open GSM 1900 Channel 661)

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; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Cheek Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.413 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.97 V/m; Power Drift = -0.066 dB

Peak SAR (extrapolated) = 0.577 W/kg

SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.224 mW/g

Maximum value of SAR (measured) = 0.428 mW/g

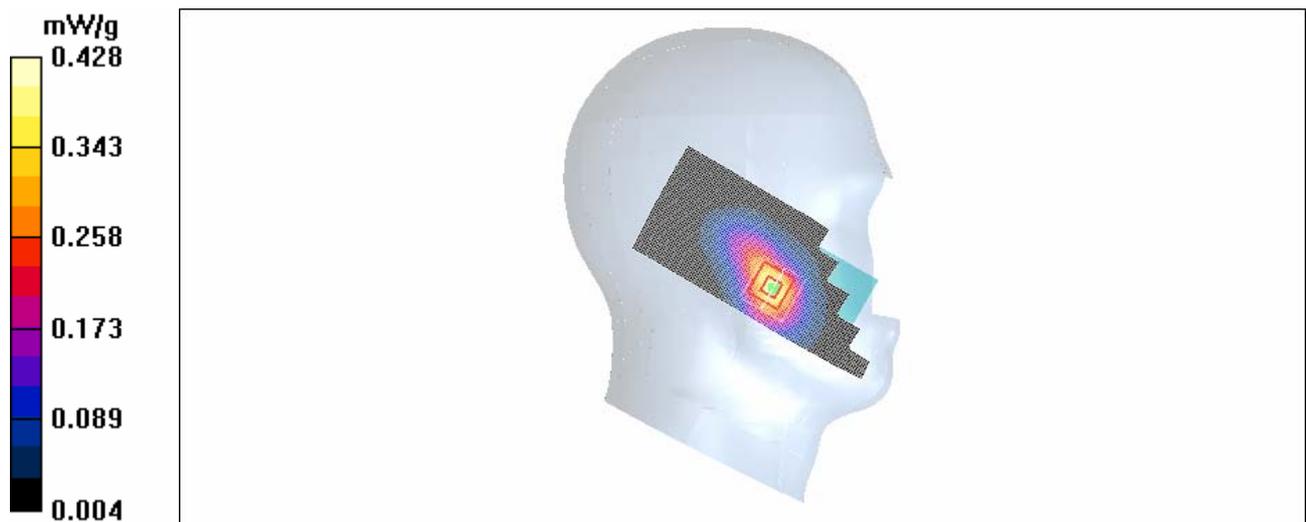


Figure 11 Left Hand Touch Cheek Open GSM 1900 Channel 512

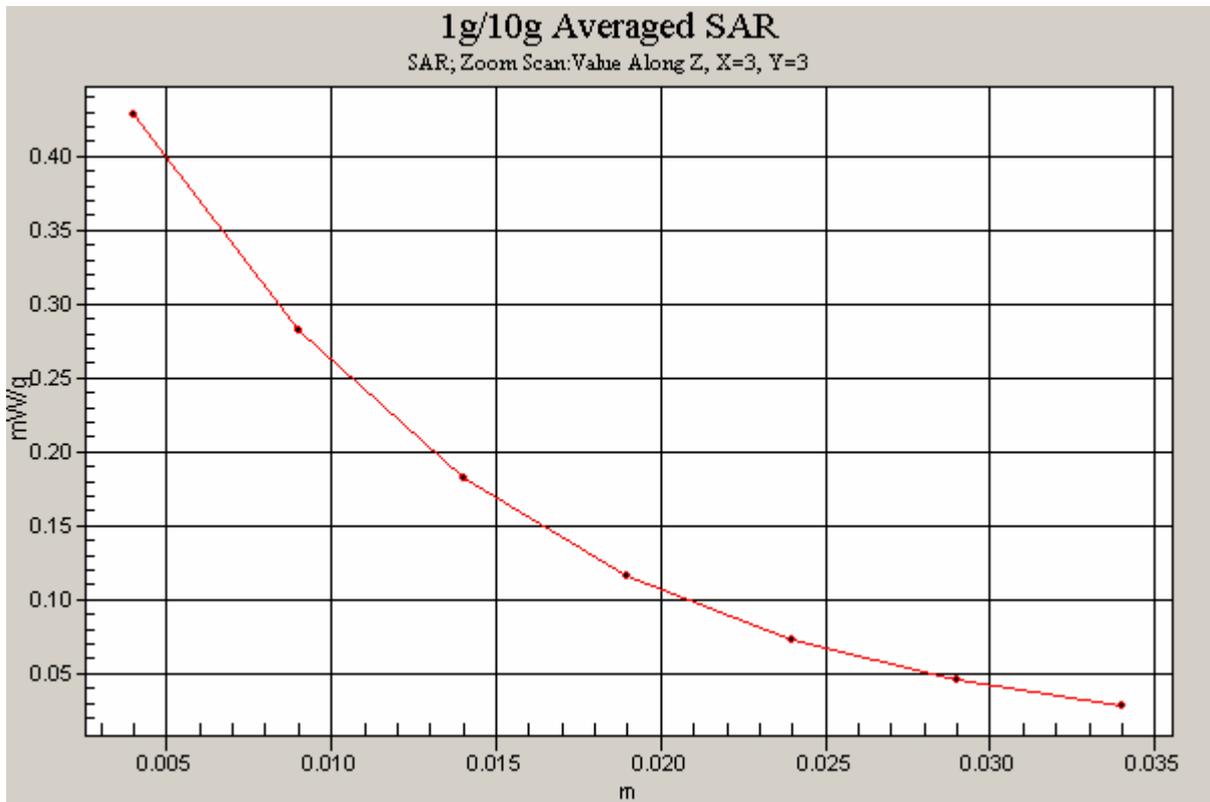


Figure 12 Z-Scan at power reference point (Left Hand Touch Cheek Open GSM 1900 Channel 512)

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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Tilt High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.156 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.42 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.113 mW/g; SAR(10 g) = 0.072 mW/g

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

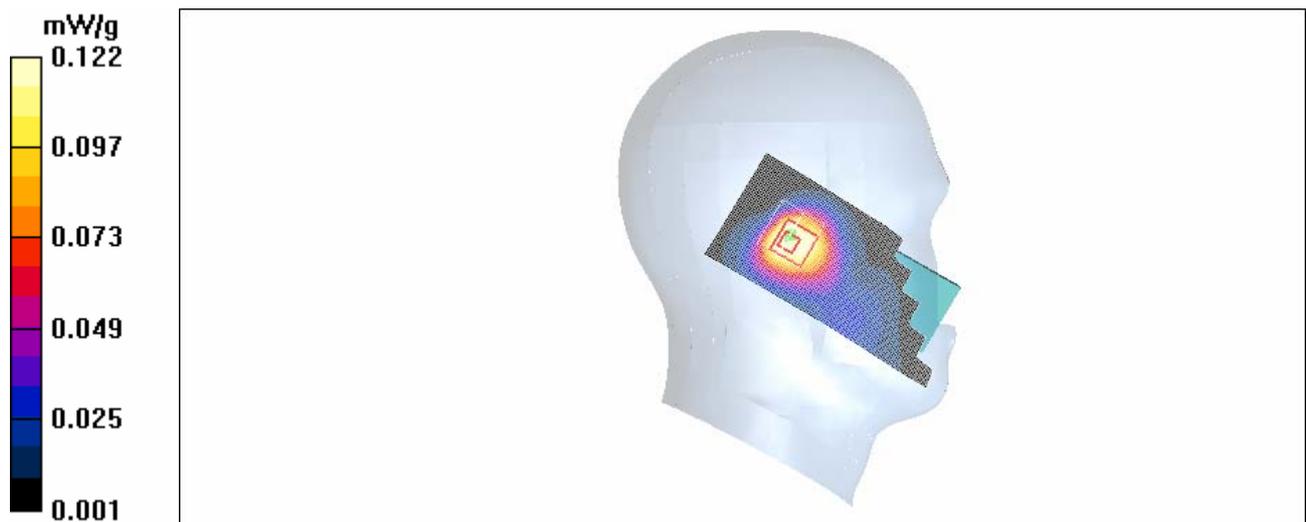


Figure 13 Left Hand Tilt Open GSM 1900 Channel 810

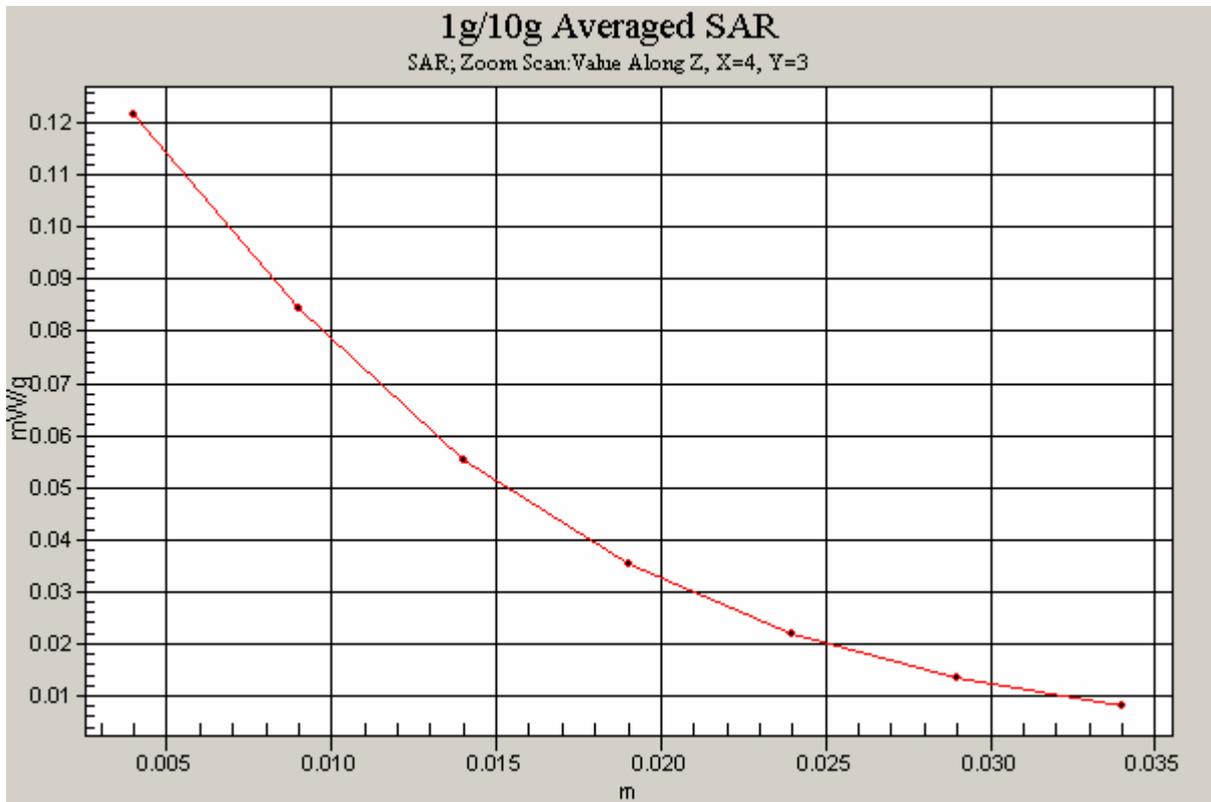


Figure 14 Z-Scan at power reference point (Left Hand Tilt Open GSM 1900 Channel 810)

GSM 1900 Left Tilt Middle Open

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Tilt Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.198 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.21 V/m; Power Drift = -0.128 dB

Peak SAR (extrapolated) = 0.198 W/kg

SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.093 mW/g

Maximum value of SAR (measured) = 0.156 mW/g

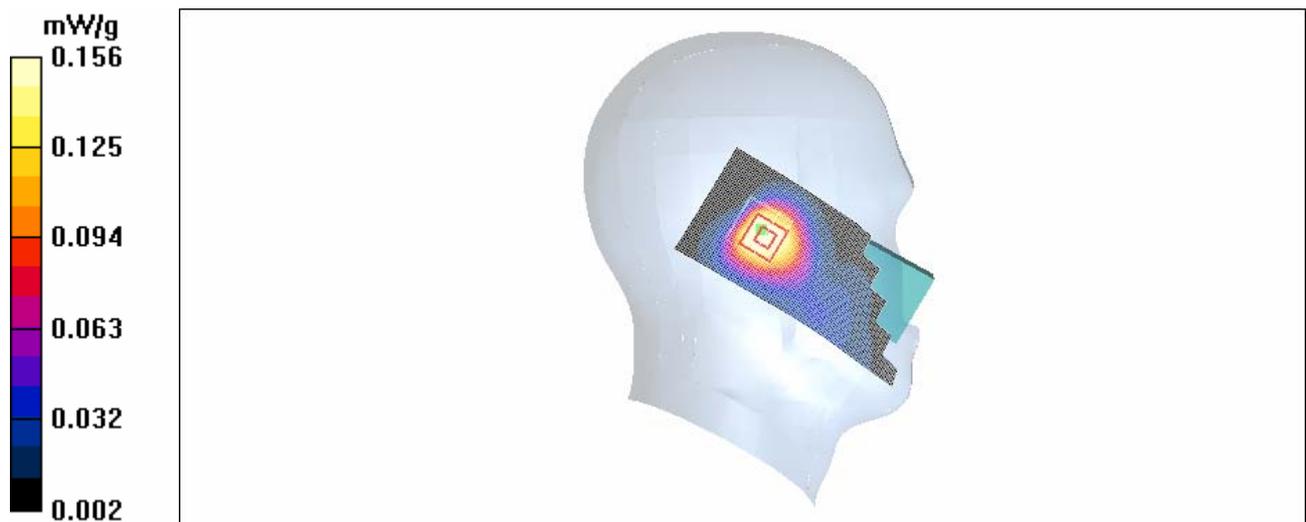


Figure 15 Left Hand Tilt Open GSM 1900 Channel 661

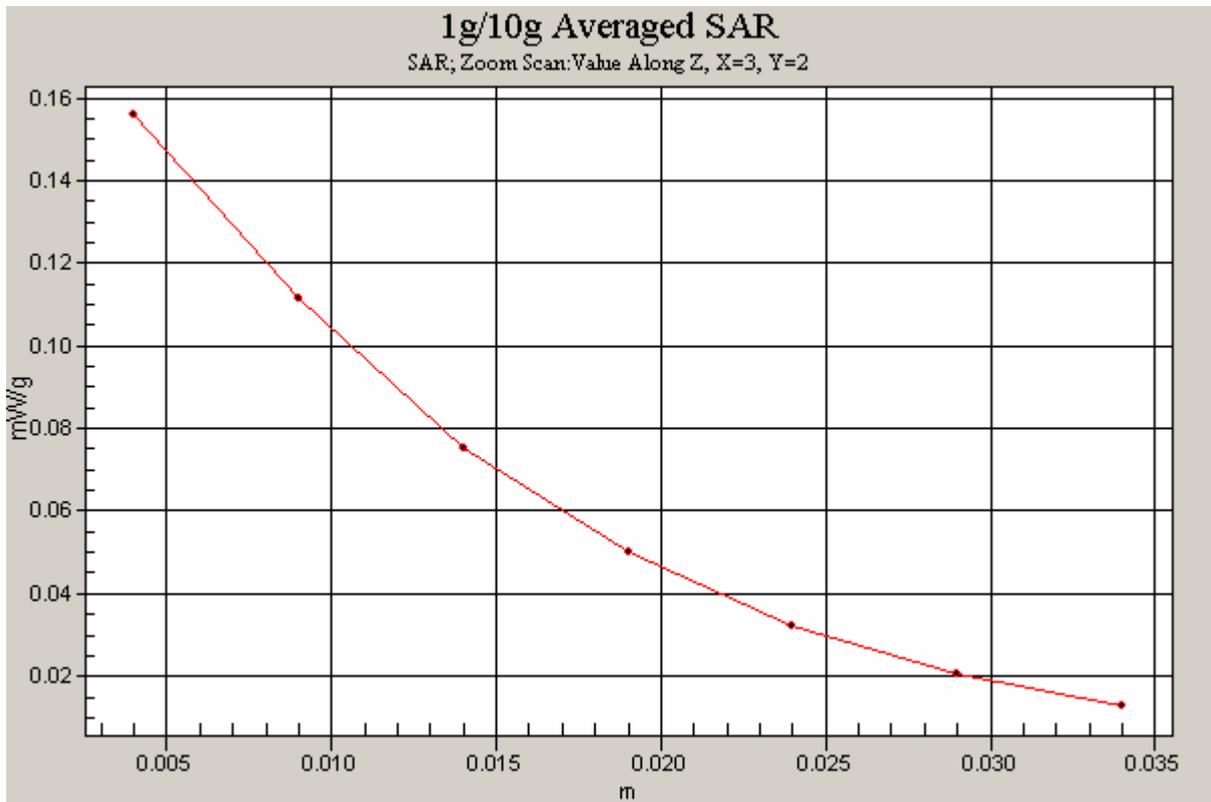


Figure 16 Z-Scan at power reference point (Left Hand Tilt Open GSM 1900 Channel 661)

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; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Tilt Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.226 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.14 V/m; Power Drift = -0.056dB

Peak SAR (extrapolated) = 0.237 W/kg

SAR(1 g) = 0.176 mW/g; SAR(10 g) = 0.114 mW/g

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

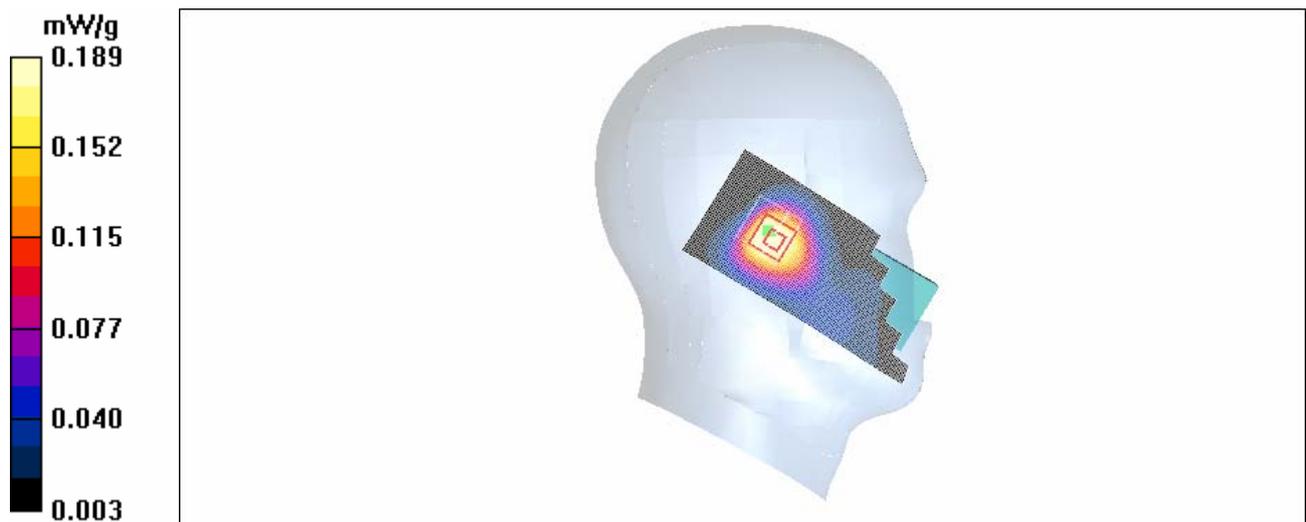


Figure 17 Left Hand Tilt Open GSM 1900 Channel 512

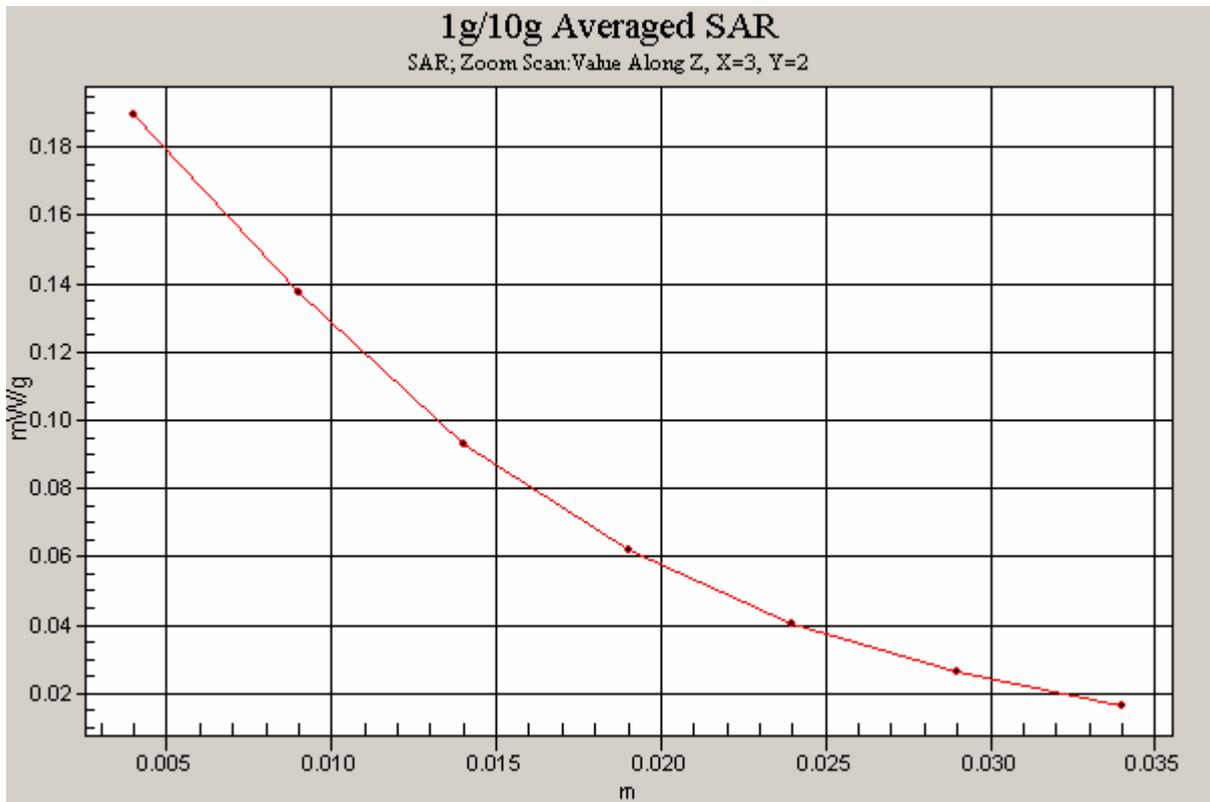


Figure 18 Z-Scan at power reference point (Left Hand Tilt Open GSM 1900 Channel 512)

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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Cheek High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.211 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.50 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.286 W/kg

SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.119 mW/g

Maximum value of SAR (measured) = 0.218 mW/g

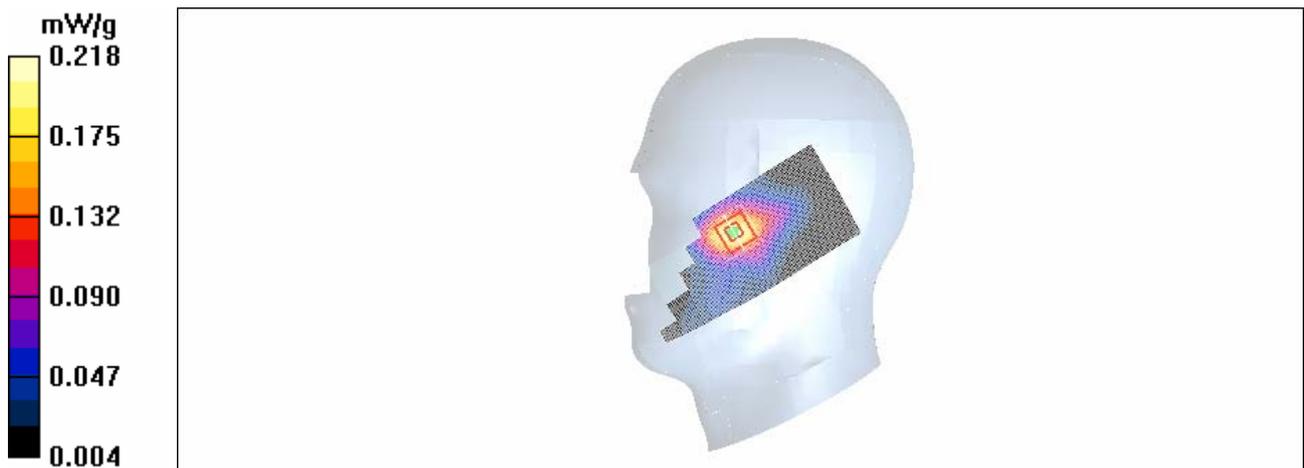


Figure 19 Right Hand Touch Cheek Open GSM 1900 Channel 810

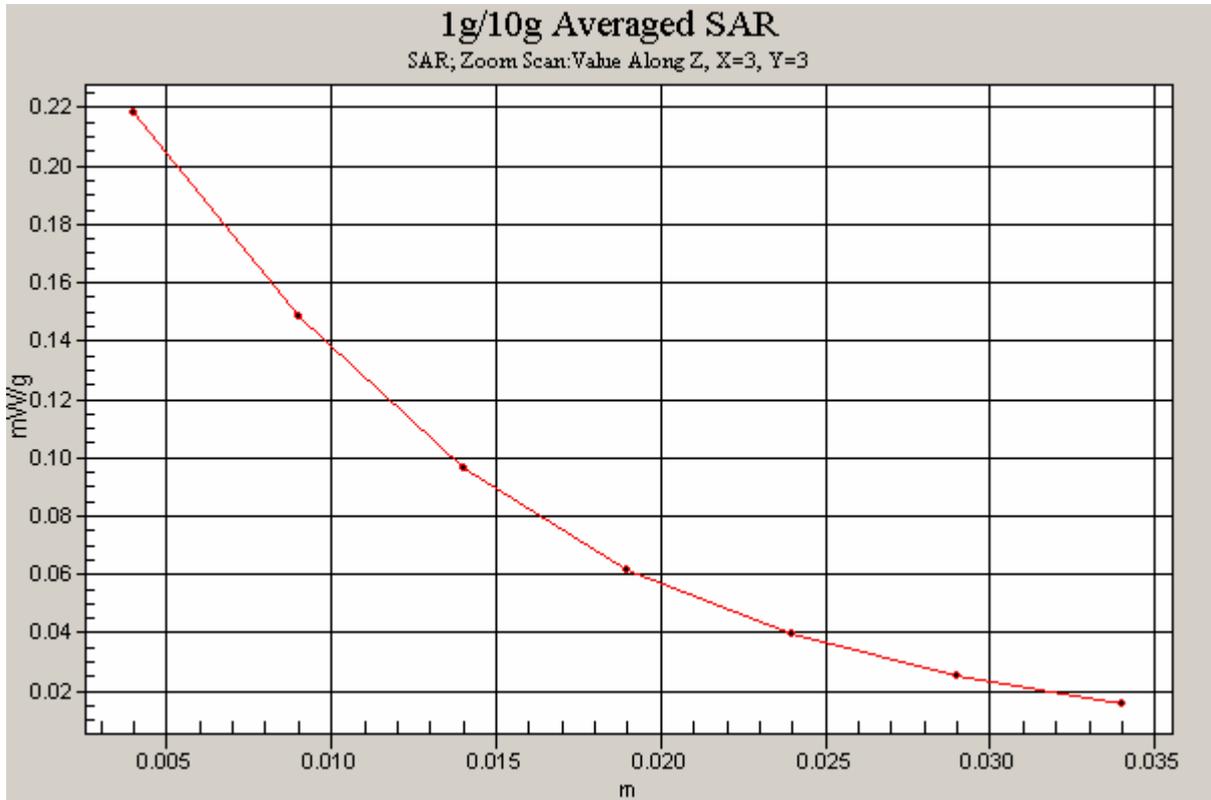


Figure 20 Z-Scan at power reference point (Right Hand Touch Open Cheek GSM 1900 Channel 810)

GSM 1900 Right Cheek Middle Open

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Cheek Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.280 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 = 0.026 dB

Peak SAR (extrapolated) = 0.371 W/kg

SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.158 mW/g

Maximum value of SAR (measured) = 0.285 mW/g

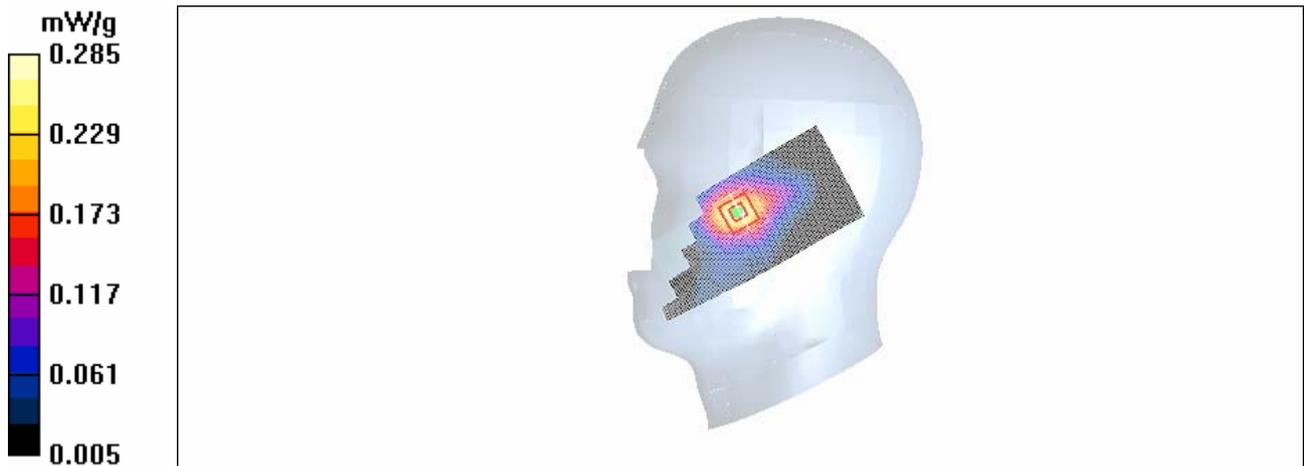


Figure 21 Right Hand Touch Cheek Open GSM 1900 Channel 661

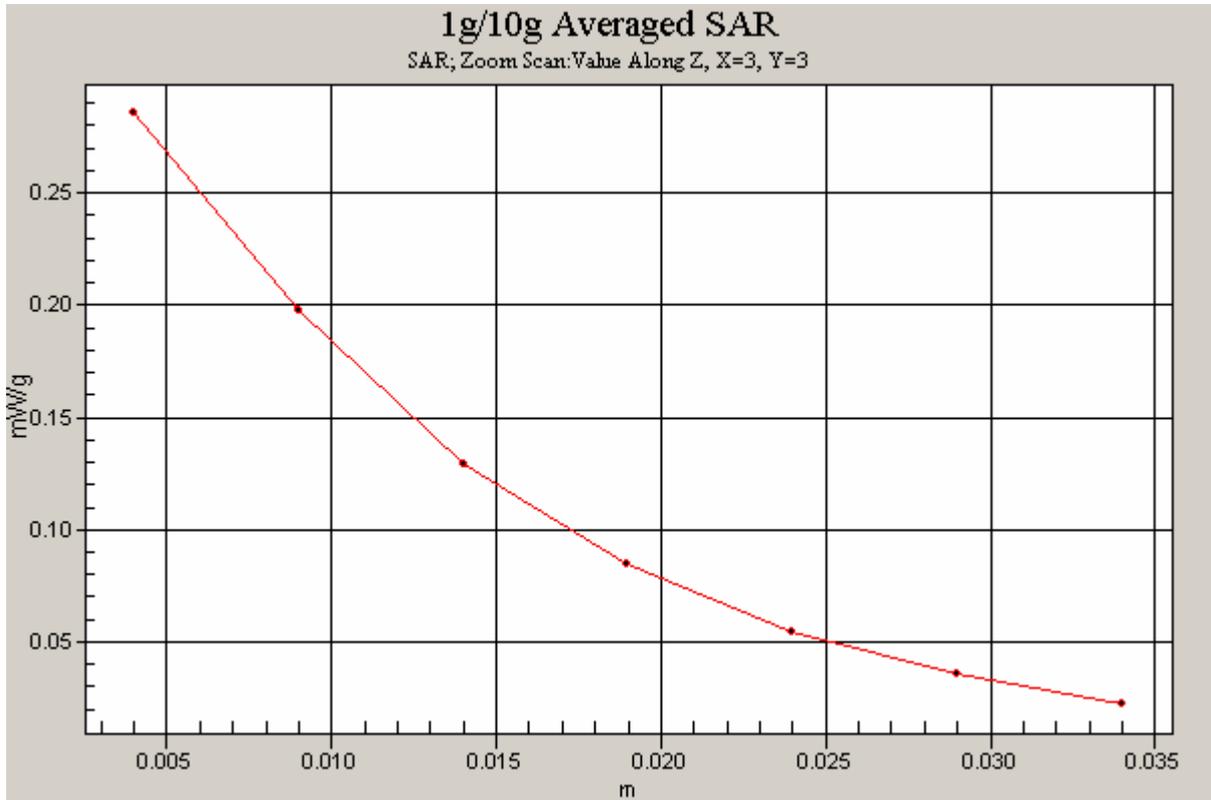


Figure 22 Z-Scan at power reference point (Right Hand Touch Open Cheek GSM 1900 Channel 661)

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; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Cheek Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.332 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.76 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.436 W/kg

SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.191 mW/g

Maximum value of SAR (measured) = 0.331 mW/g

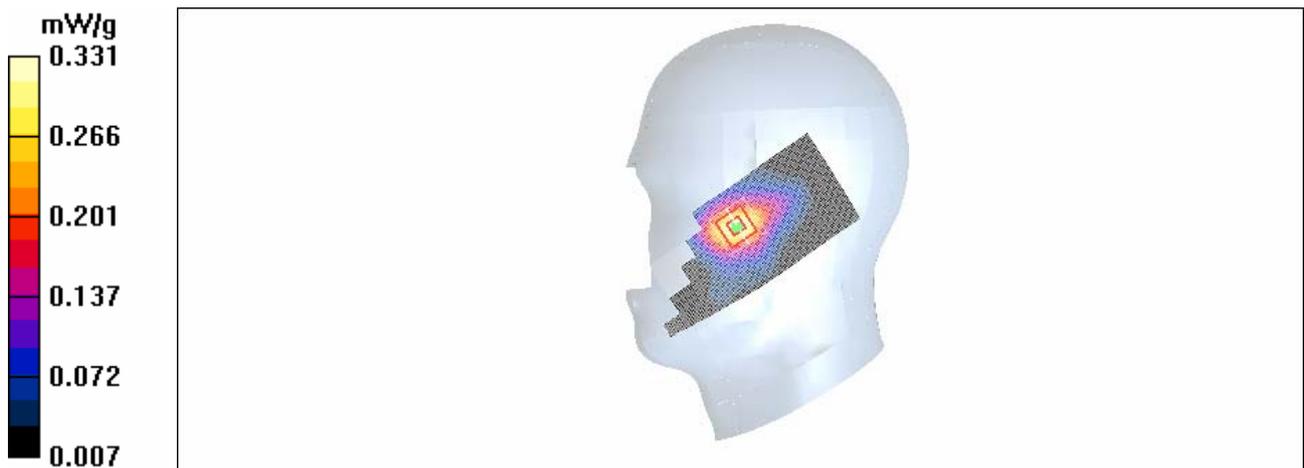


Figure 23 Right Hand Touch Cheek Open GSM 1900 Channel 512

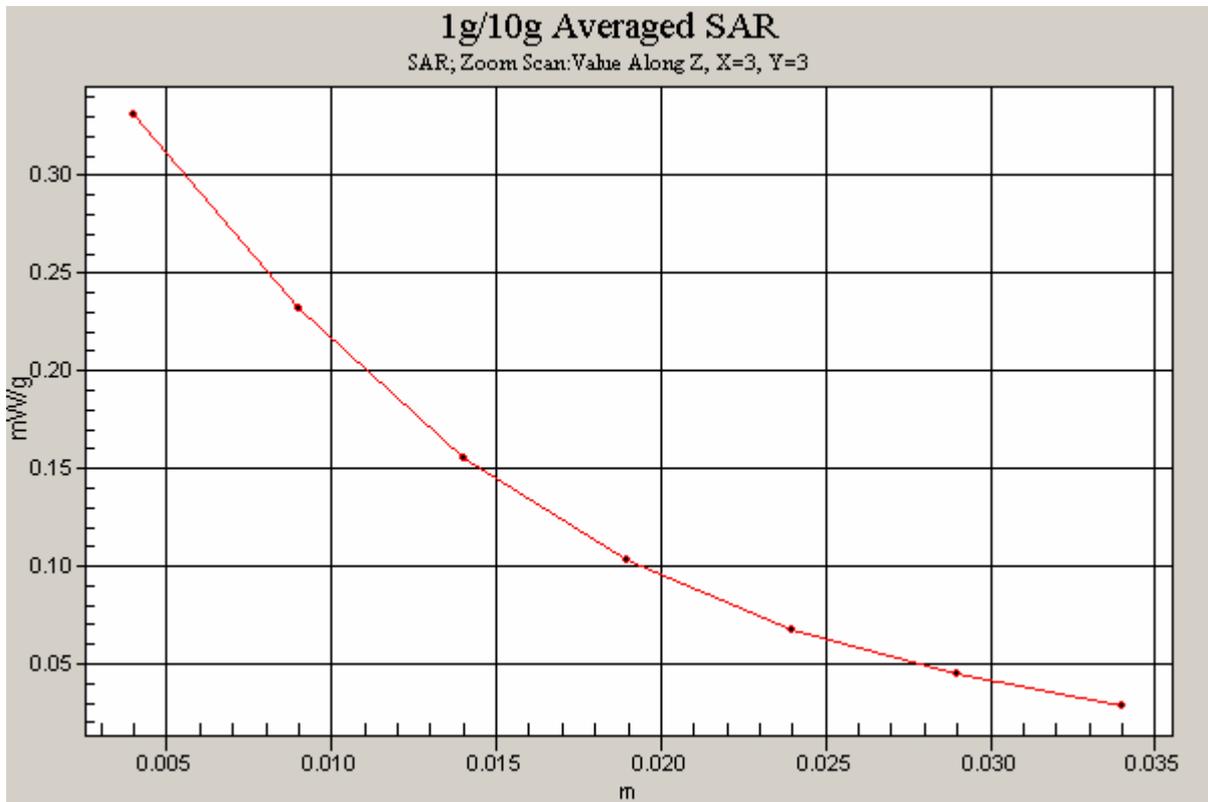


Figure 24 Z-Scan at power reference point (Right Hand Touch Cheek Open GSM 1900 Channel 512)

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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Tilt High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.177 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 = 0.072 dB

Peak SAR (extrapolated) = 0.209 W/kg

SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.089 mW/g

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

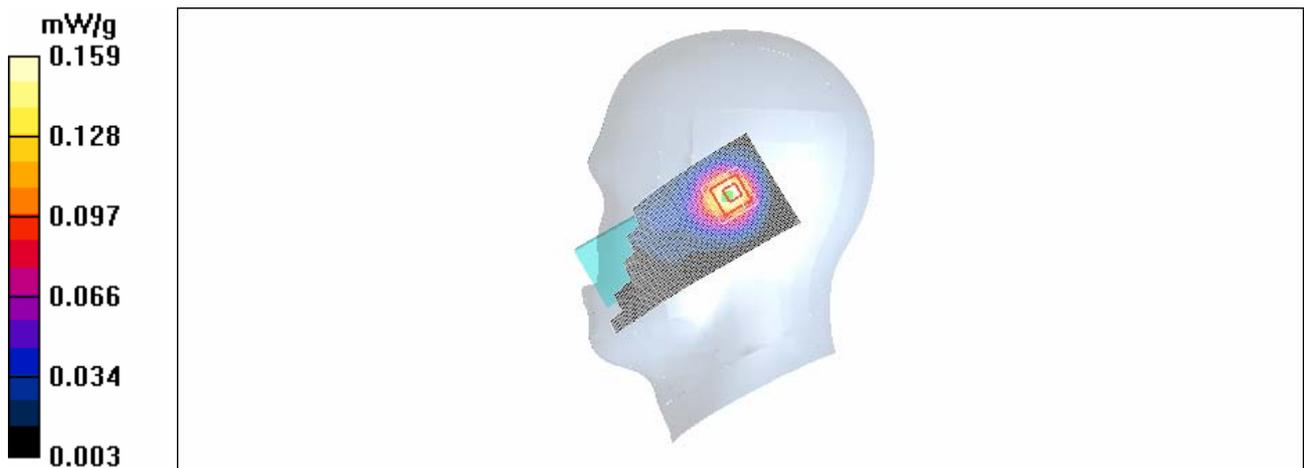


Figure 25 Right Hand Tilt Open GSM 1900 Channel 810

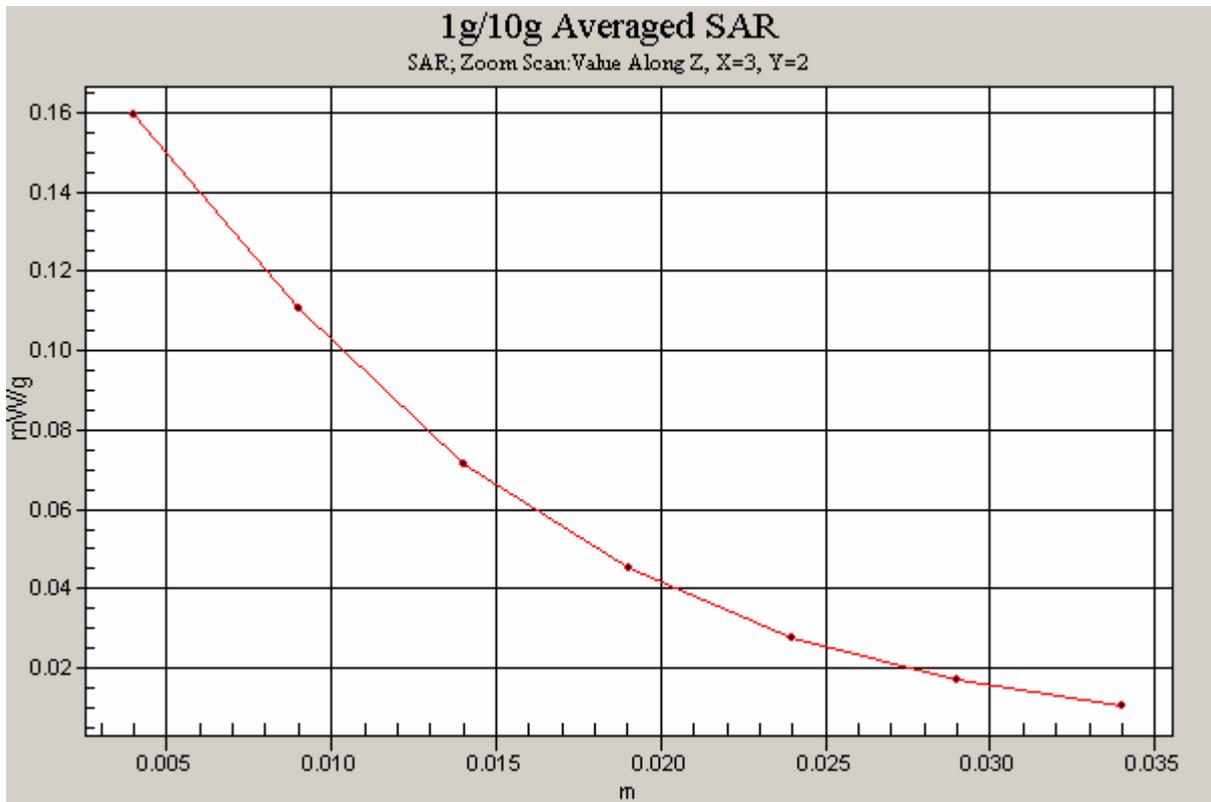


Figure 26 Z-Scan at power reference point (Right Hand Tilt Open GSM 1900 Channel 810)

GSM 1900 Right Tilt Middle Open

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Tilt Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.217 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 0.263 W/kg

SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.114 mW/g

Maximum value of SAR (measured) = 0.201 mW/g

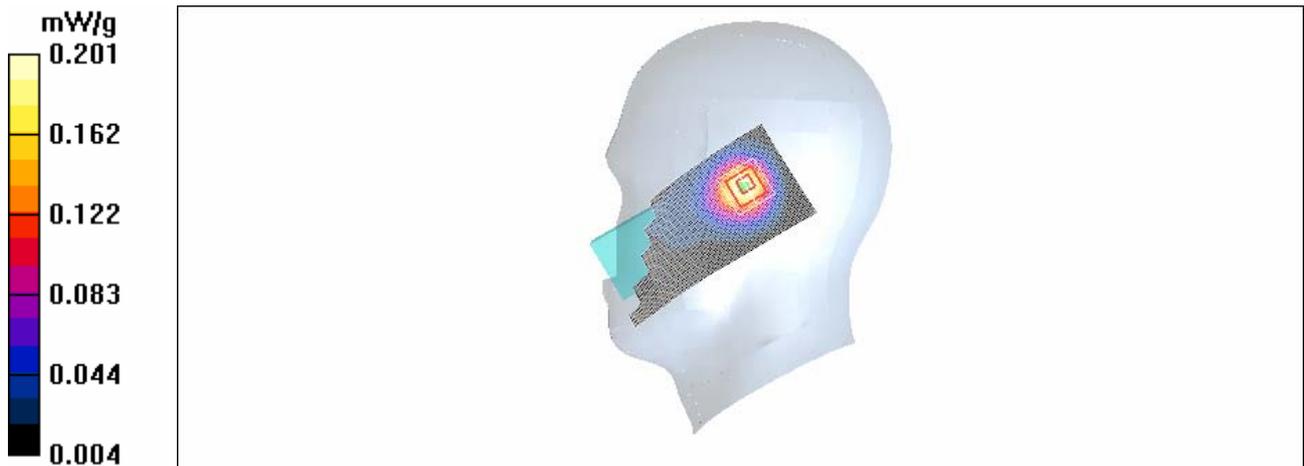


Figure 27 Right Hand Tilt Open GSM 1900 Channel 661

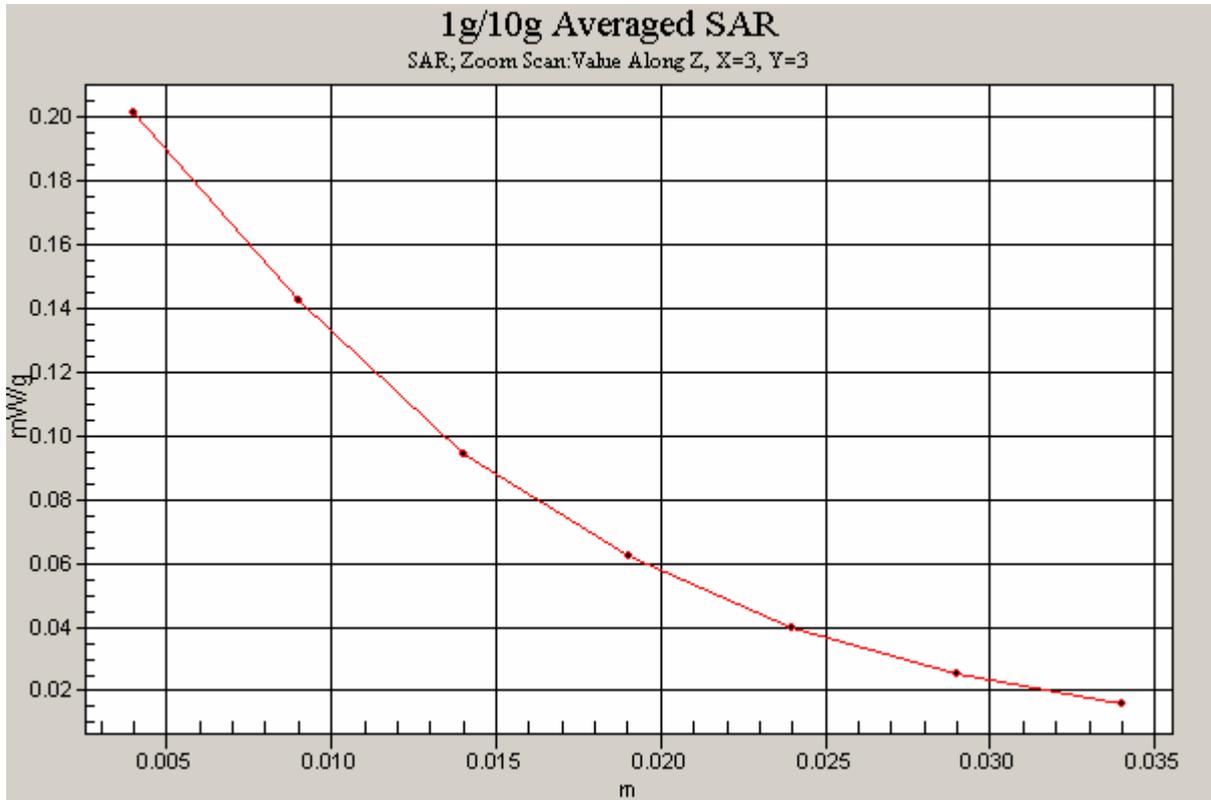


Figure 28 Z-Scan at power reference point (Right Hand Tilt Open GSM 1900 Channel 661)

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; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Tilt Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.266 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.2 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.138 mW/g

Maximum value of SAR (measured) = 0.241 mW/g

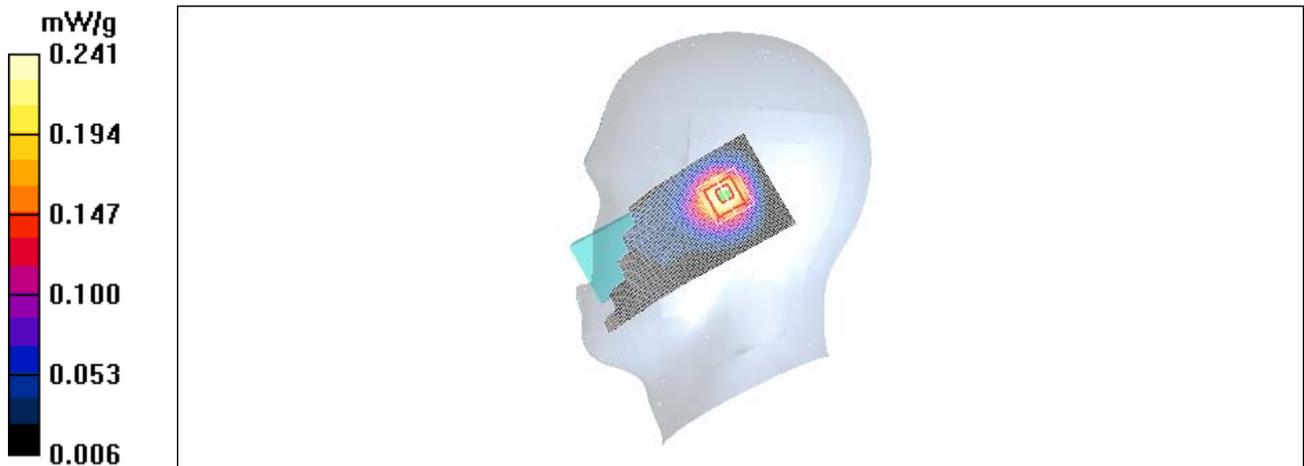


Figure 29 Right Hand Tilt Open GSM 1900 Channel 512

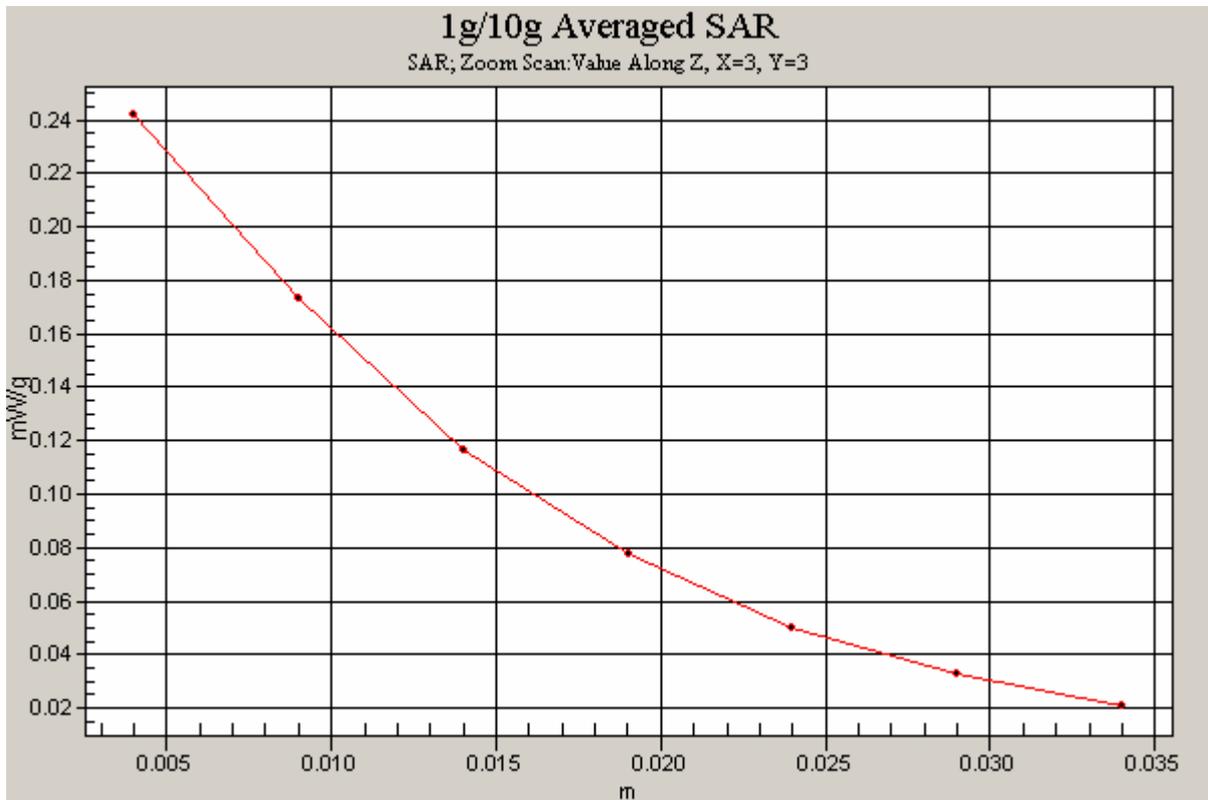


Figure 30 Z-Scan at power reference point (Right Hand Tilt Open GSM 1900 Channel 512)

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; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.323 mW/g

Towards ground, High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.04 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 0.516 W/kg

SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.167 mW/g

Maximum value of SAR (measured) = 0.338 mW/g

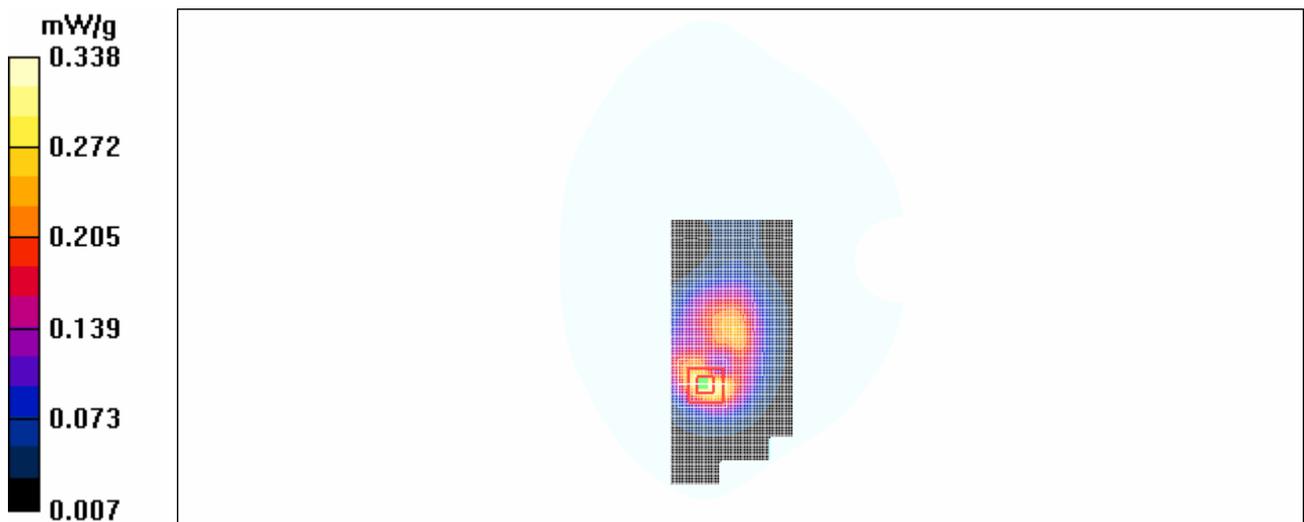


Figure 31 Body, Towards Ground, Open, GSM 1900 Channel 810

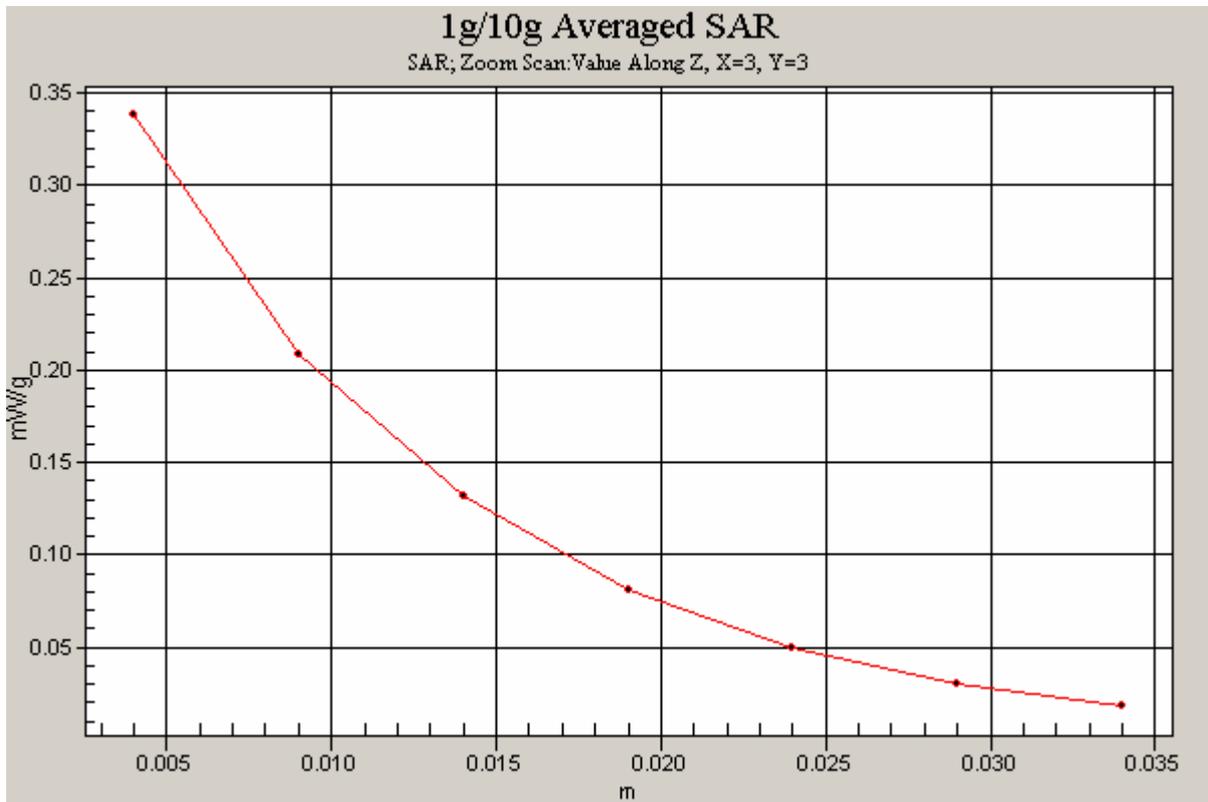


Figure 32 Z-Scan at power reference point (Body, Towards Ground, Open , GSM 1900 Channel 810)

GSM 1900 Towards Ground Middle Open

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.349 mW/g

Towards ground, Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.06 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 0.539 W/kg

SAR(1 g) = 0.323 mW/g; SAR(10 g) = 0.181 mW/g

Maximum value of SAR (measured) = 0.357 mW/g

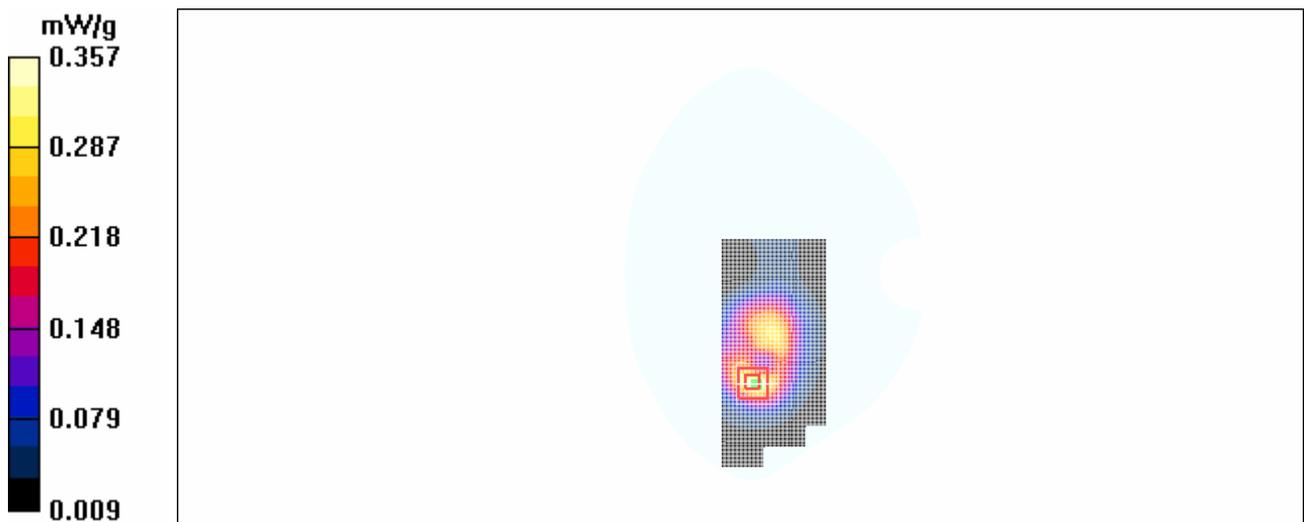


Figure 33 Body, Towards Ground, Open, GSM 1900 Channel 661

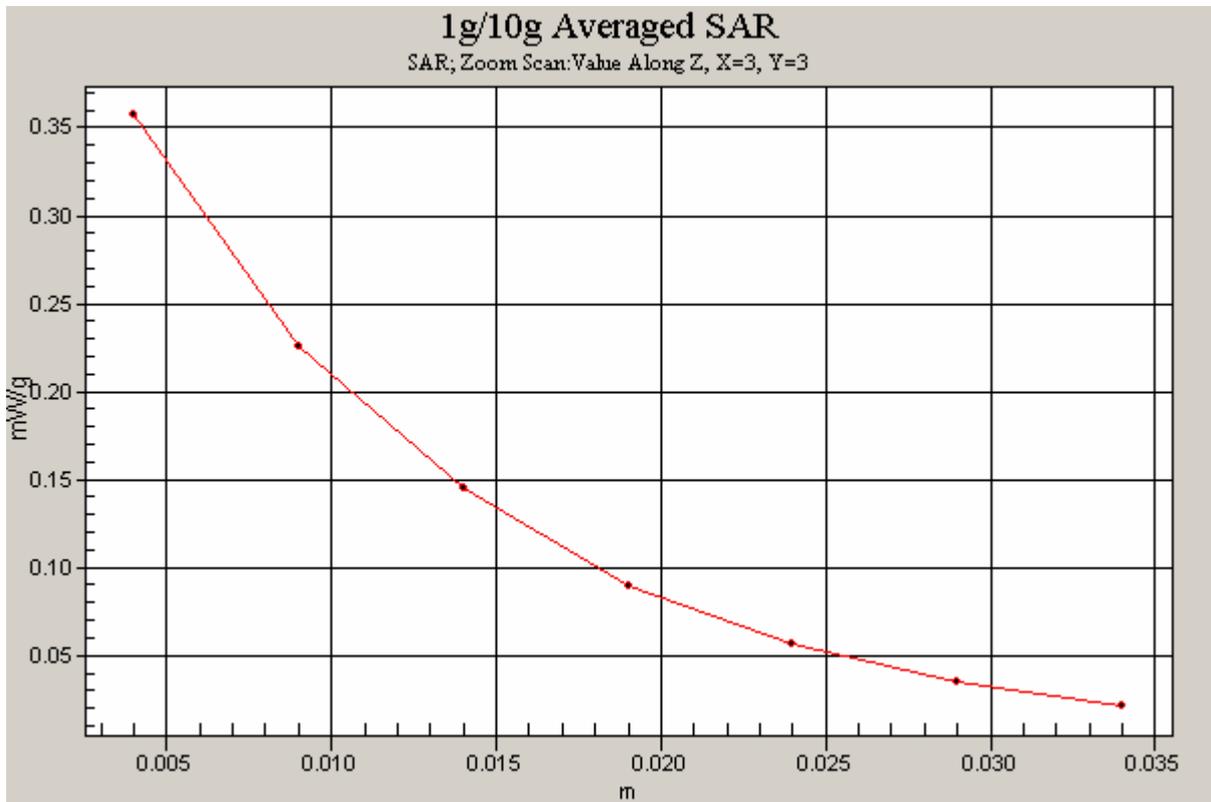


Figure 34 Z-Scan at power reference point (Body, Towards Ground, Open, GSM 1900 Channel 661)

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; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.378 mW/g

Towards ground, Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.20 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 0.556 W/kg

SAR(1 g) = 0.340 mW/g; SAR(10 g) = 0.195 mW/g

Maximum value of SAR (measured) = 0.378 mW/g

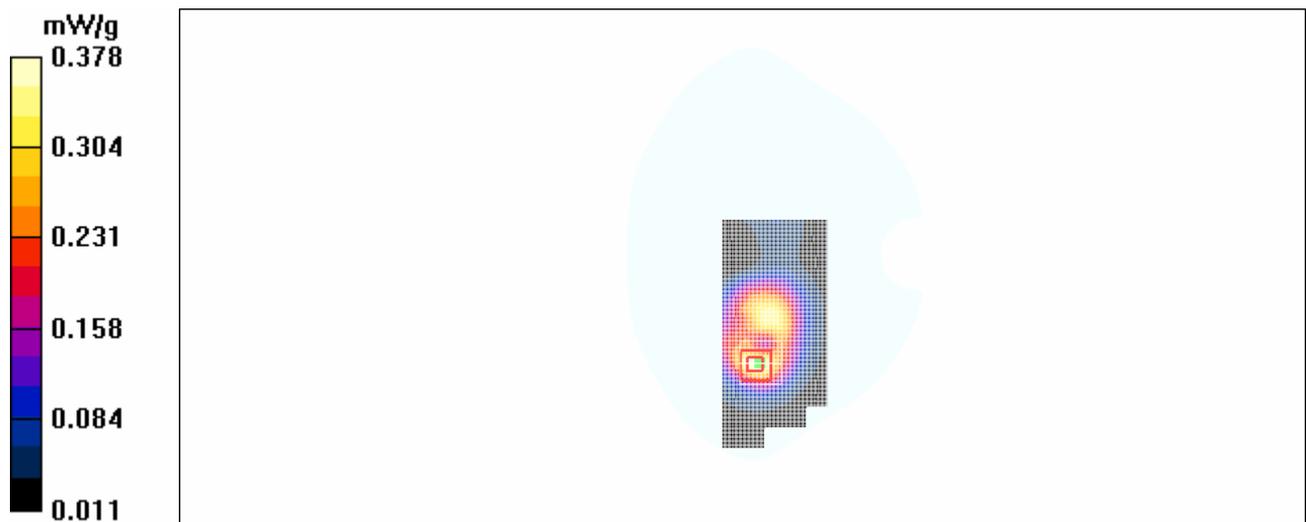


Figure 35 Body, Towards Ground, Open, GSM 1900 Channel 512

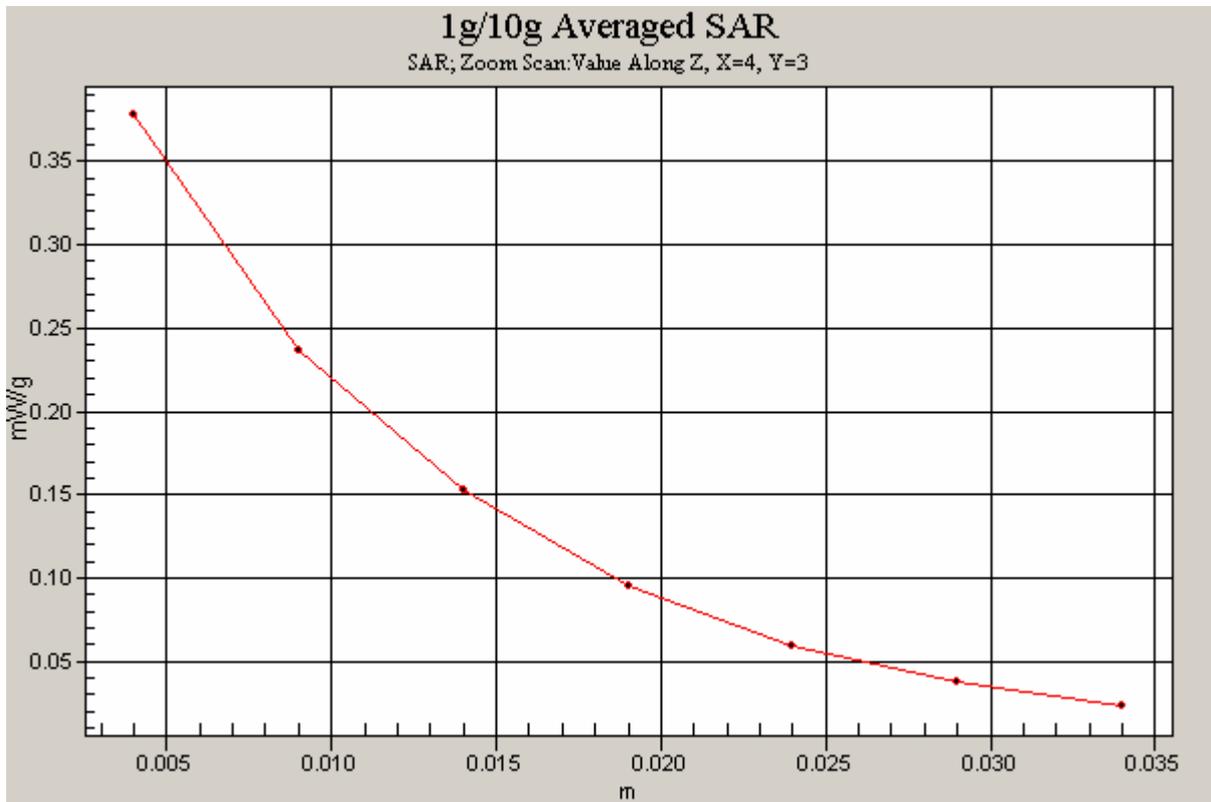


Figure 36 Z-Scan at power reference point (Body, Towards Ground, Open, GSM 1900 Channel 512)

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; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards phantom, High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.119 mW/g

Towards phantom, High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.30 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.167 W/kg

SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.064 mW/g

Maximum value of SAR (measured) = 0.113 mW/g

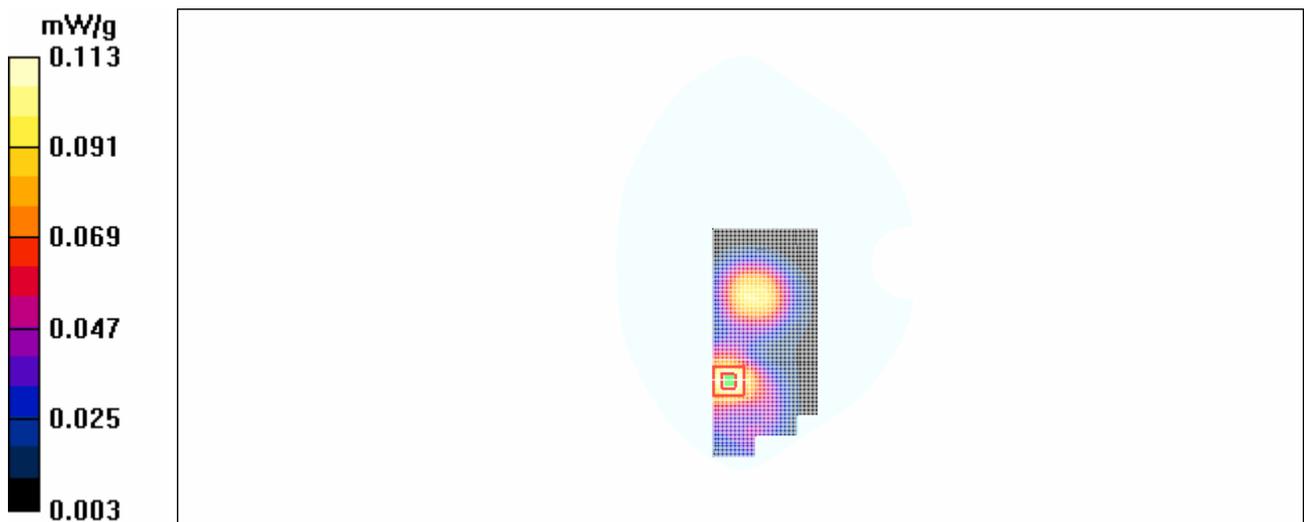


Figure 37 Body, Towards Phantom, Open, GSM 1900 Channel 810

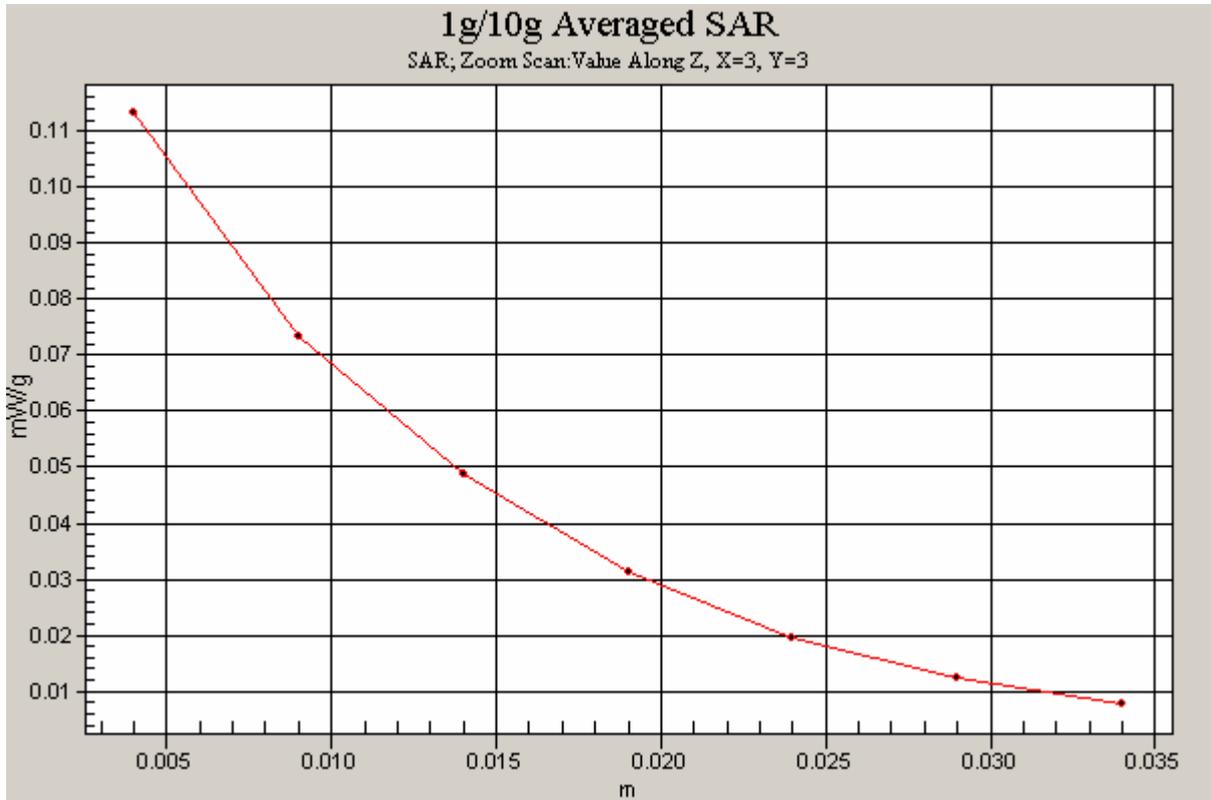


Figure 38 Z-Scan at power reference point (Body, Towards Phantom, Open , GSM 1900 Channel 810)

GSM 1900 Towards Phantom Middle Open

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards phantom, Middle /Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.144 mW/g

Towards the phantom, Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.20 V/m; Power Drift = 0.139 dB

Peak SAR (extrapolated) = 0.185 W/kg

SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.084 mW/g

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

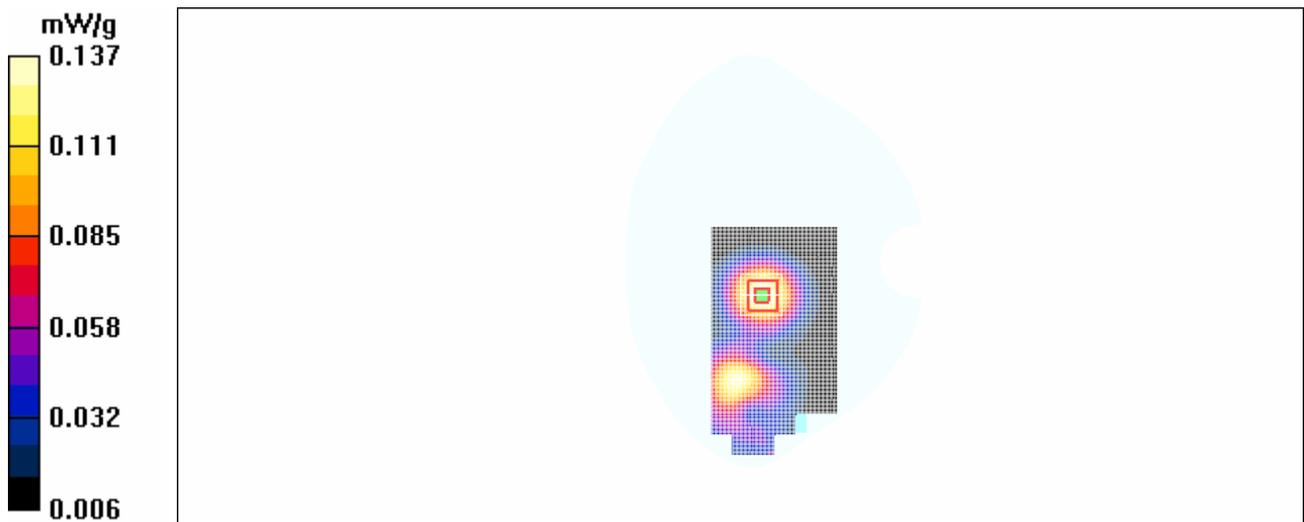


Figure 39 Body, Towards Phantom, Open, GSM 1900 Channel 661

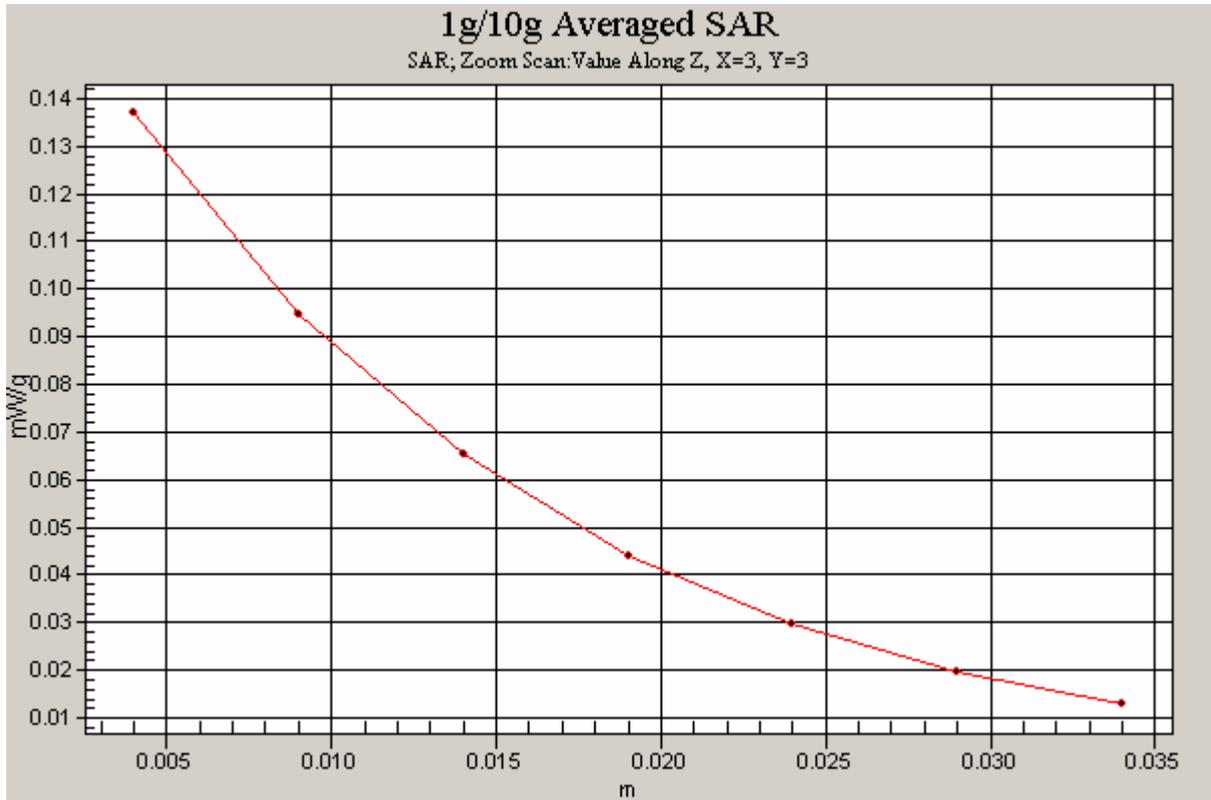


Figure 40 Z-Scan at power reference point (Body, Towards Phantom, Open, GSM 1900 Channel 661)

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; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards phantom, Low/Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.193 mW/g

Towards phantom, Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.24 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.237 W/kg

SAR(1 g) = 0.168 mW/g; SAR(10 g) = 0.112 mW/g

Maximum value of SAR (measured) = 0.180 mW/g

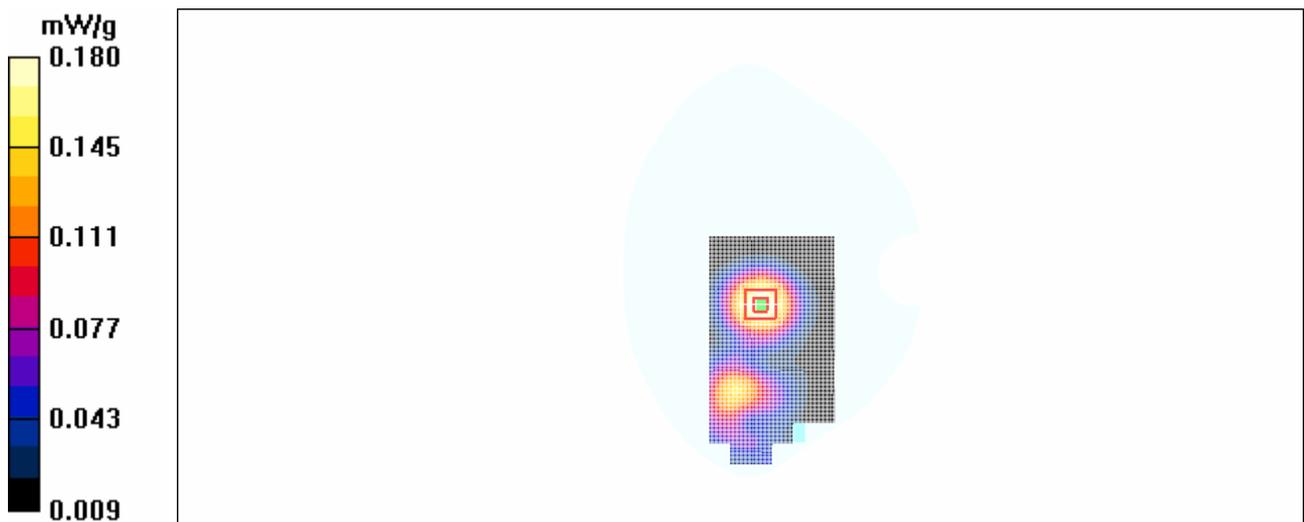


Figure 41 Body, Towards Phantom, Open, GSM 1900 Channel 512

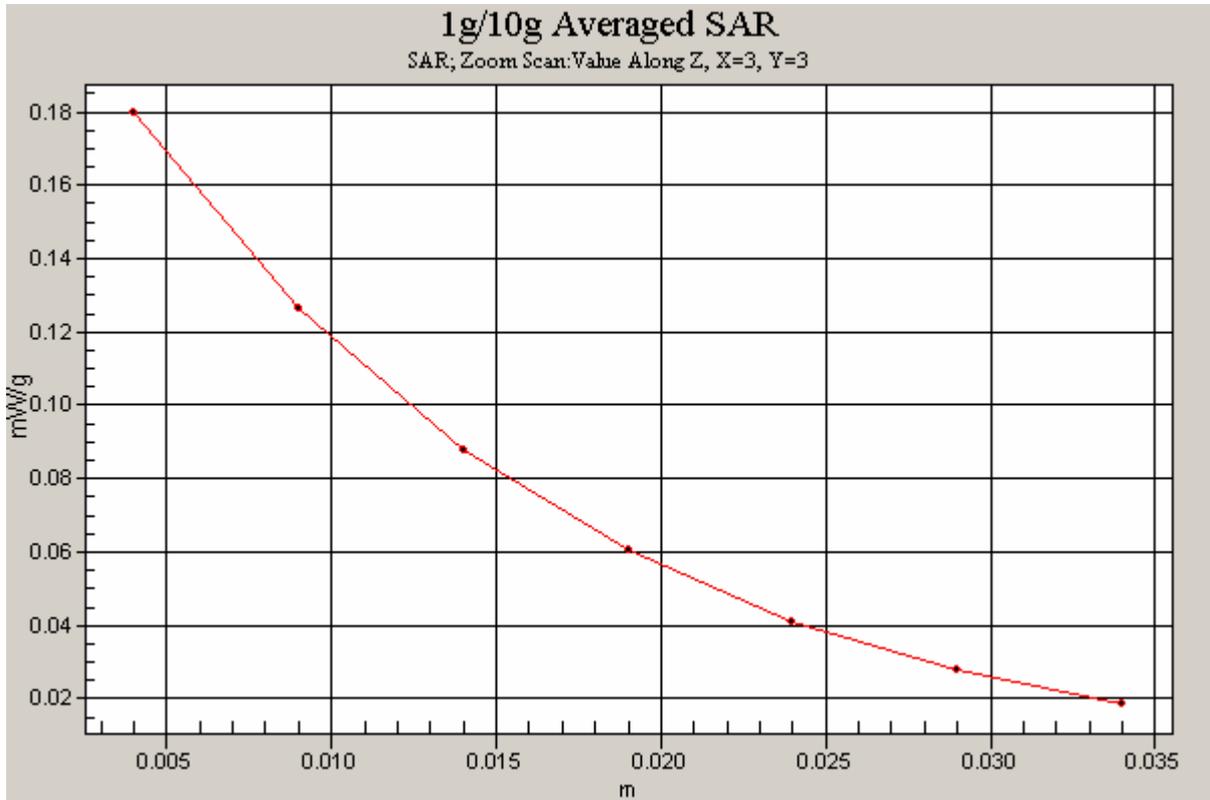


Figure 42 Z-Scan at power reference point (Body, Towards Phantom, Open, GSM 1900 Channel 512)

GSM 1900 Towards Ground earphone Low Open

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.367 mW/g

Towards ground, Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.79 V/m; Power Drift = -0.160 dB

Peak SAR (extrapolated) = 0.540 W/kg

SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.188 mW/g

Maximum value of SAR (measured) = 0.378 mW/g

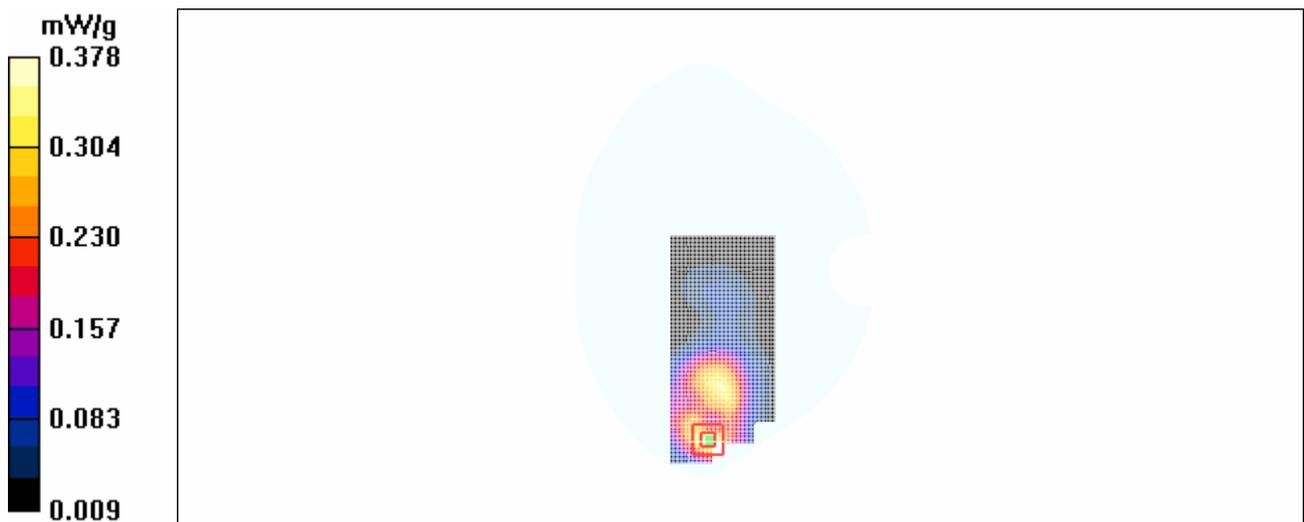


Figure 43 Body with earphone, Towards Ground, Open, GSM 1900, Channel 512

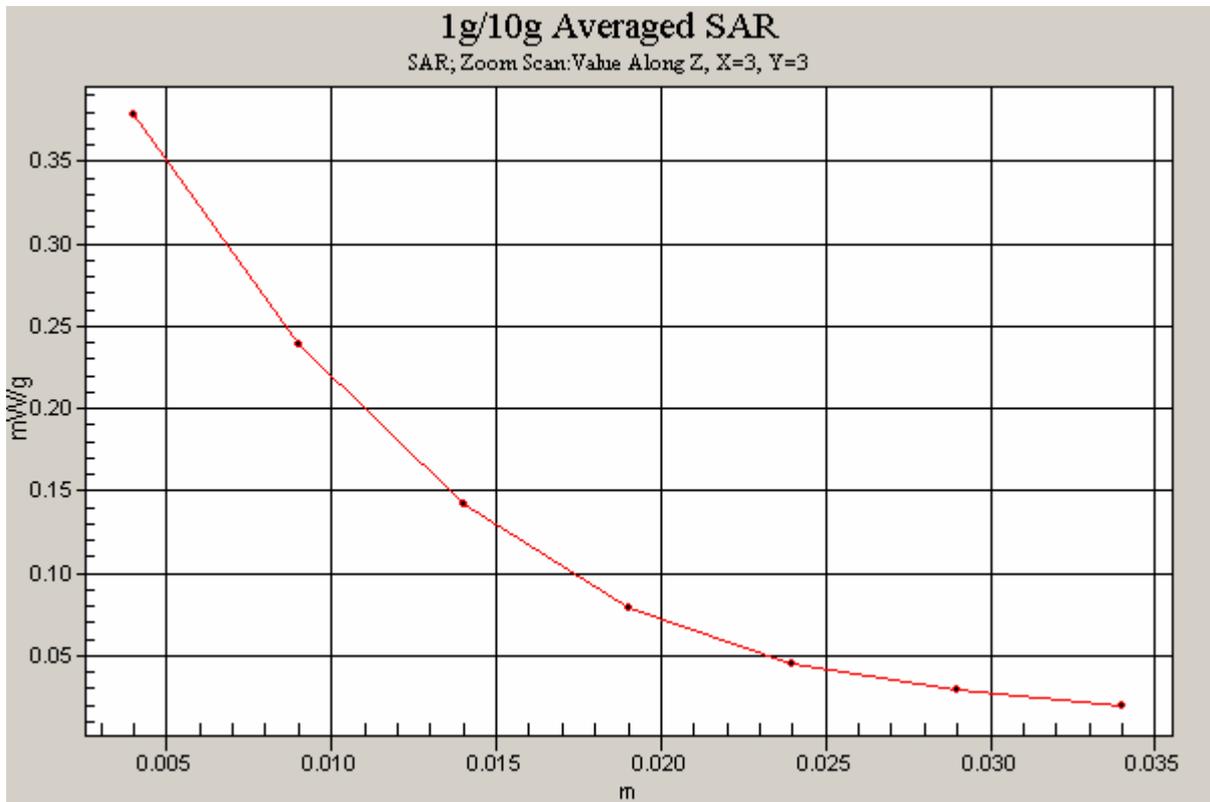


Figure 44 Z-Scan at power reference point (Body with earphone, Towards Ground, Open, GSM 1900, Channel 512)

GSM 1900 Towards Ground Bluetooth earphone Low Open

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.349 mW/g

Towards ground, Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.78 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 0.513 W/kg

SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.176 mW/g

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

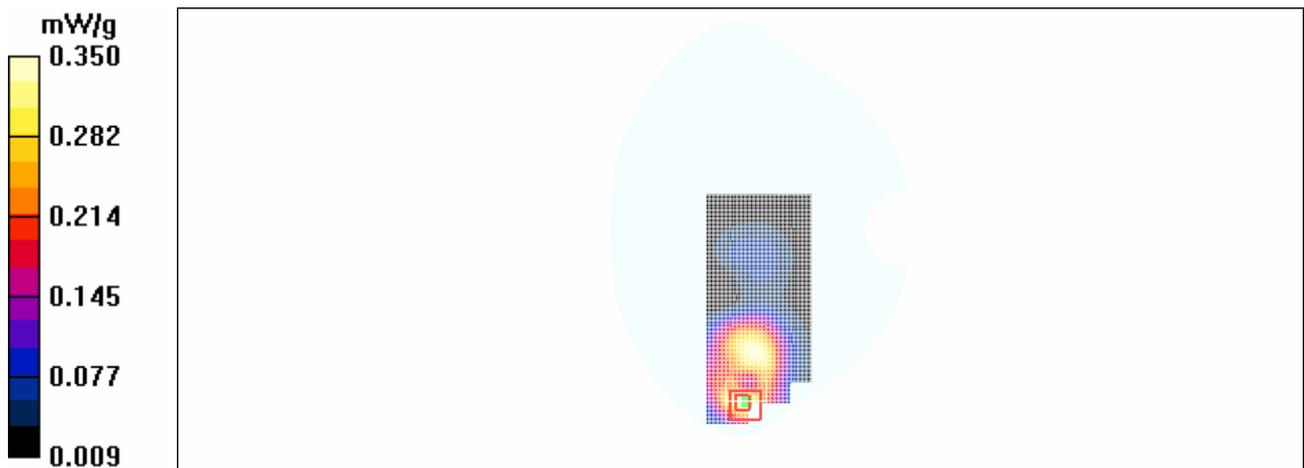


Figure 45 Body with Bluetooth earphone, Towards Ground, Open, GSM 1900, Channel 512

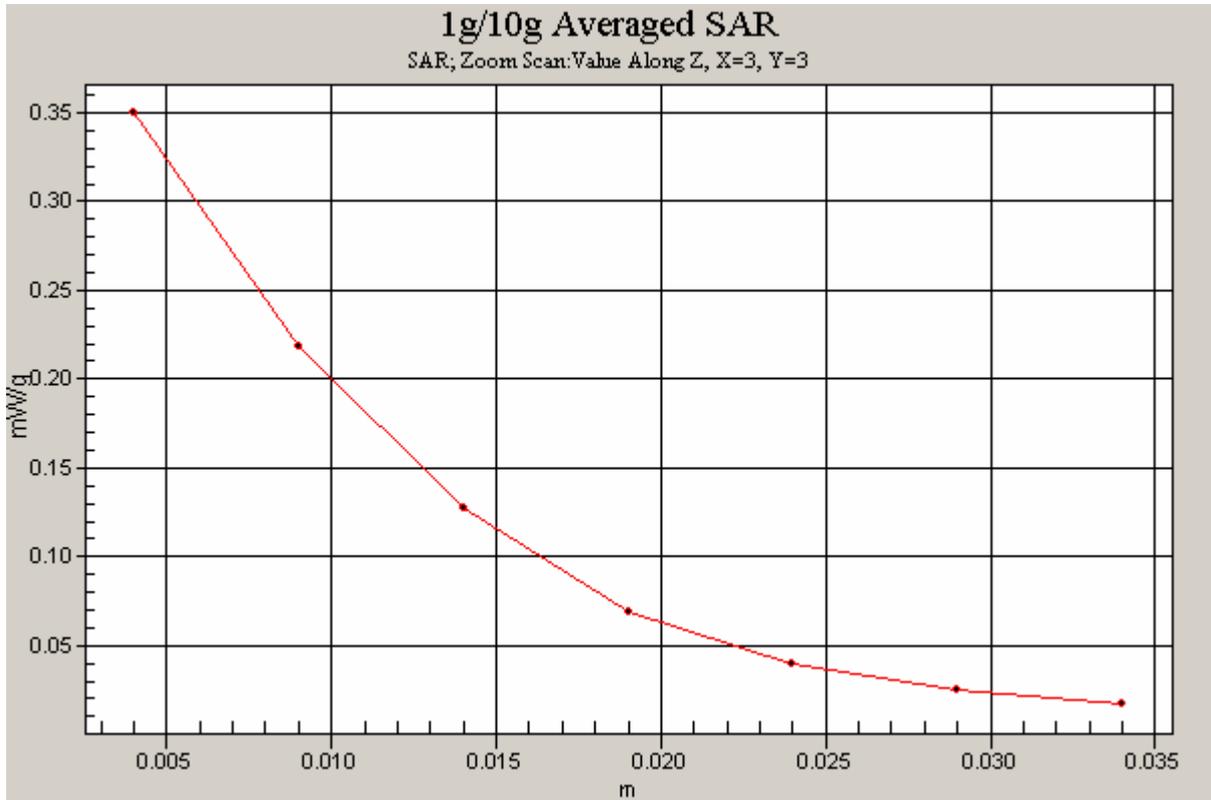


Figure 46 Z-Scan at power reference point (Body with Bluetooth earphone, Towards Ground, Open, GSM 1900, Channel 512)

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; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, High/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.590 mW/g

Towards ground, High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.60 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.921 W/kg

SAR(1 g) = 0.543 mW/g; SAR(10 g) = 0.302 mW/g

Maximum value of SAR (measured) = 0.597 mW/g

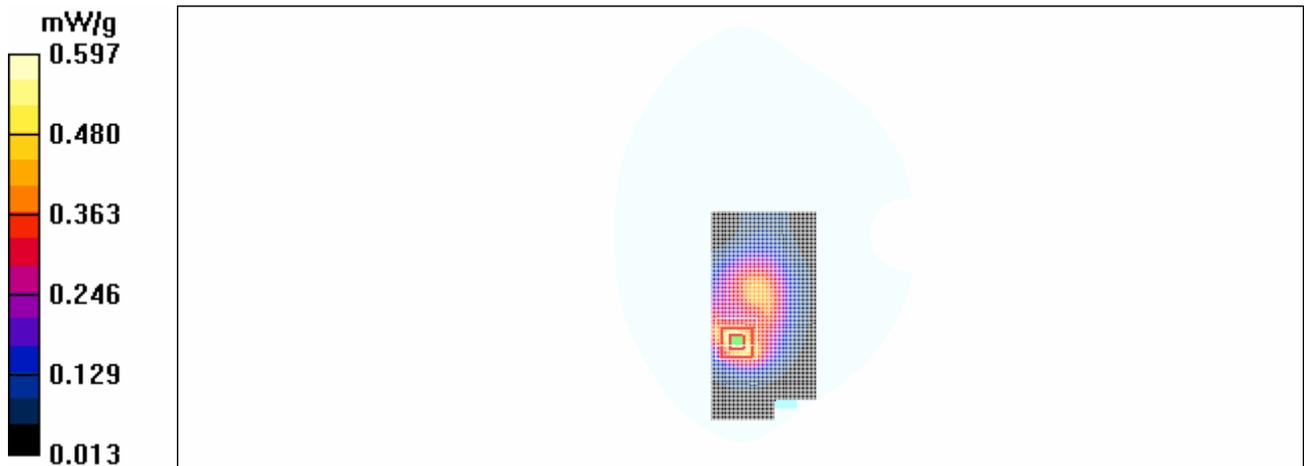


Figure 47 Body, Towards Ground, Open, GSM1900 GPRS, Channel 810

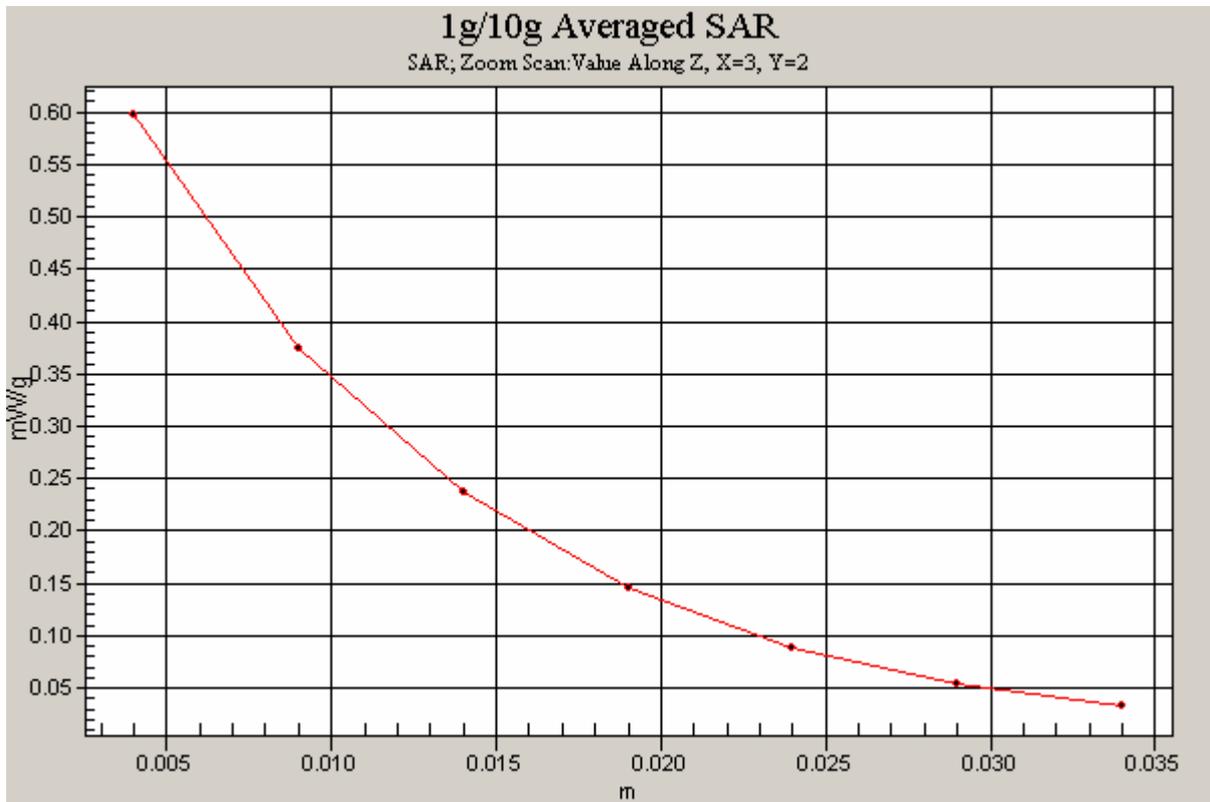


Figure 48 Z-Scan at power reference point (Body, Towards Ground, Open, GSM 1900 GPRS, Channel 810)

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; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.611 mW/g

Towards ground, Middle /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.59 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.582 mW/g; SAR(10 g) = 0.324 mW/g

Maximum value of SAR (measured) = 0.636 mW/g

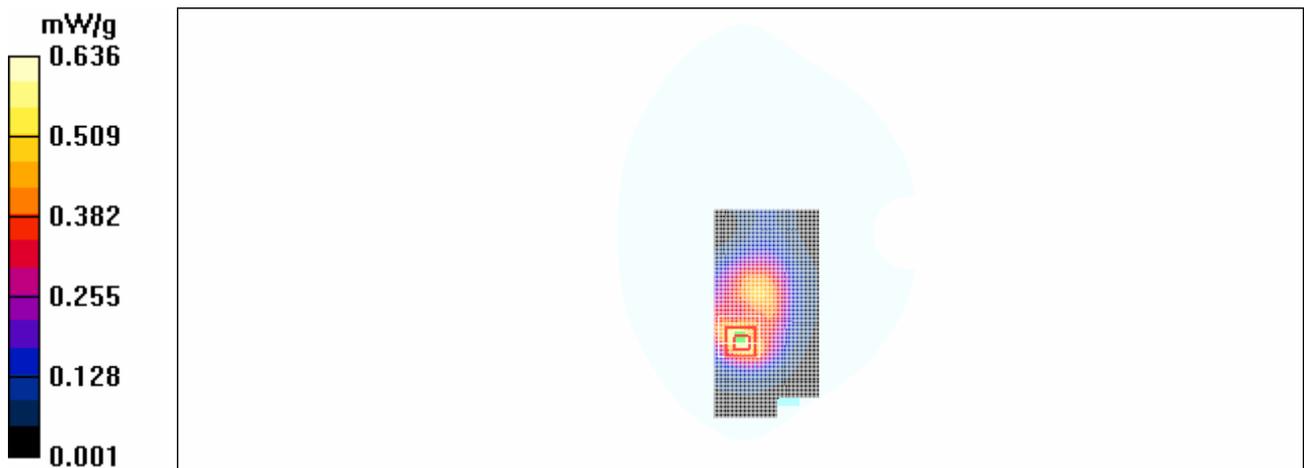


Figure 49 Body, Towards Ground, Open, GSM1900 GPRS, Channel 661

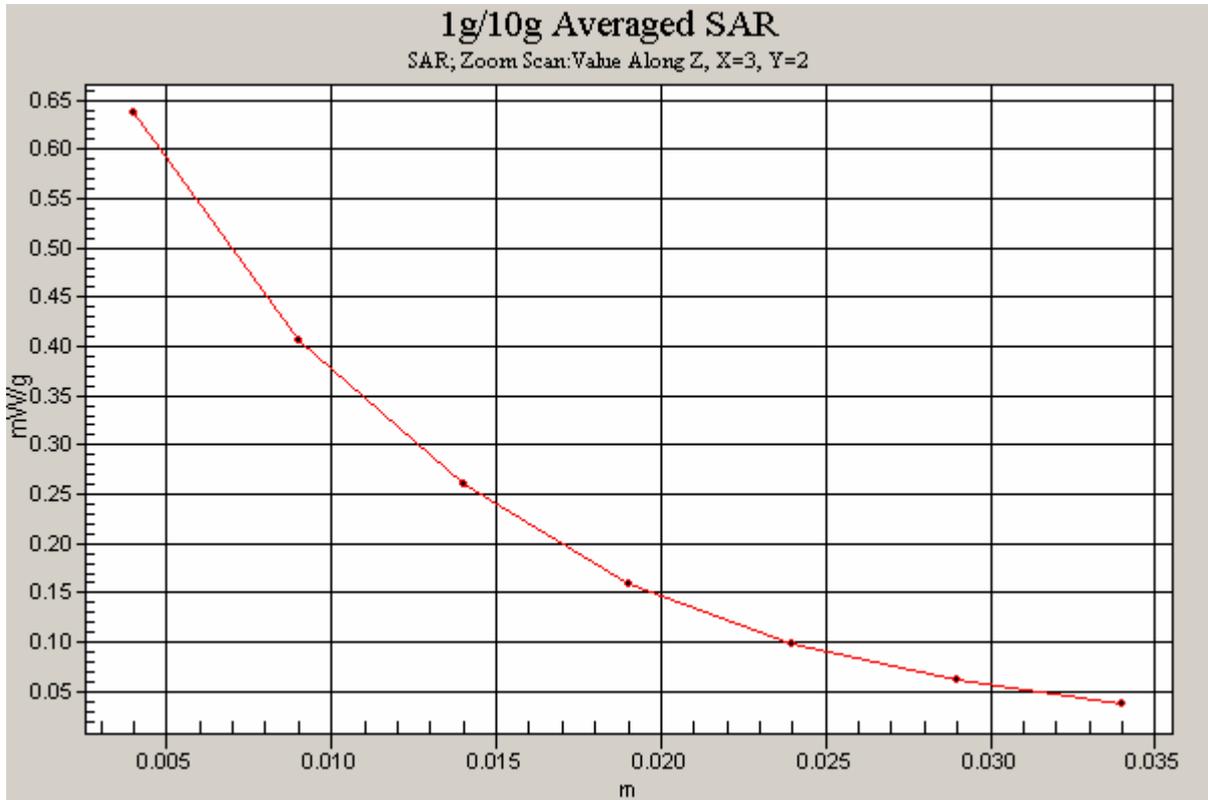


Figure 50 Z-Scan at power reference point (Body, Towards Ground, Open, GSM 1900 GPRS, Channel 661)

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; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE3 Sn452;

Towards ground, Low/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.674 mW/g

Towards ground, Low /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.87 V/m; Power Drift = -0.183 dB
Peak SAR (extrapolated) = 0.894 W/kg
SAR(1 g) = 0.622 mW/g; SAR(10 g) = 0.399 mW/g
Maximum value of SAR (measured) = 0.666 mW/g

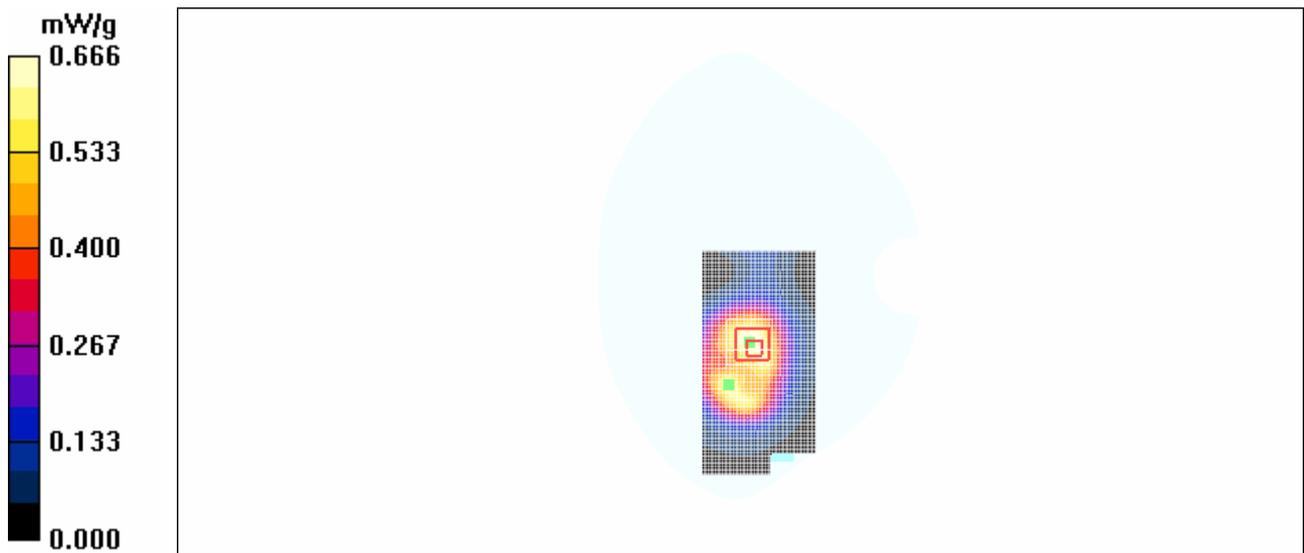


Figure 51 Body, Towards Ground, Open, GSM1900 GPRS, Channel 512

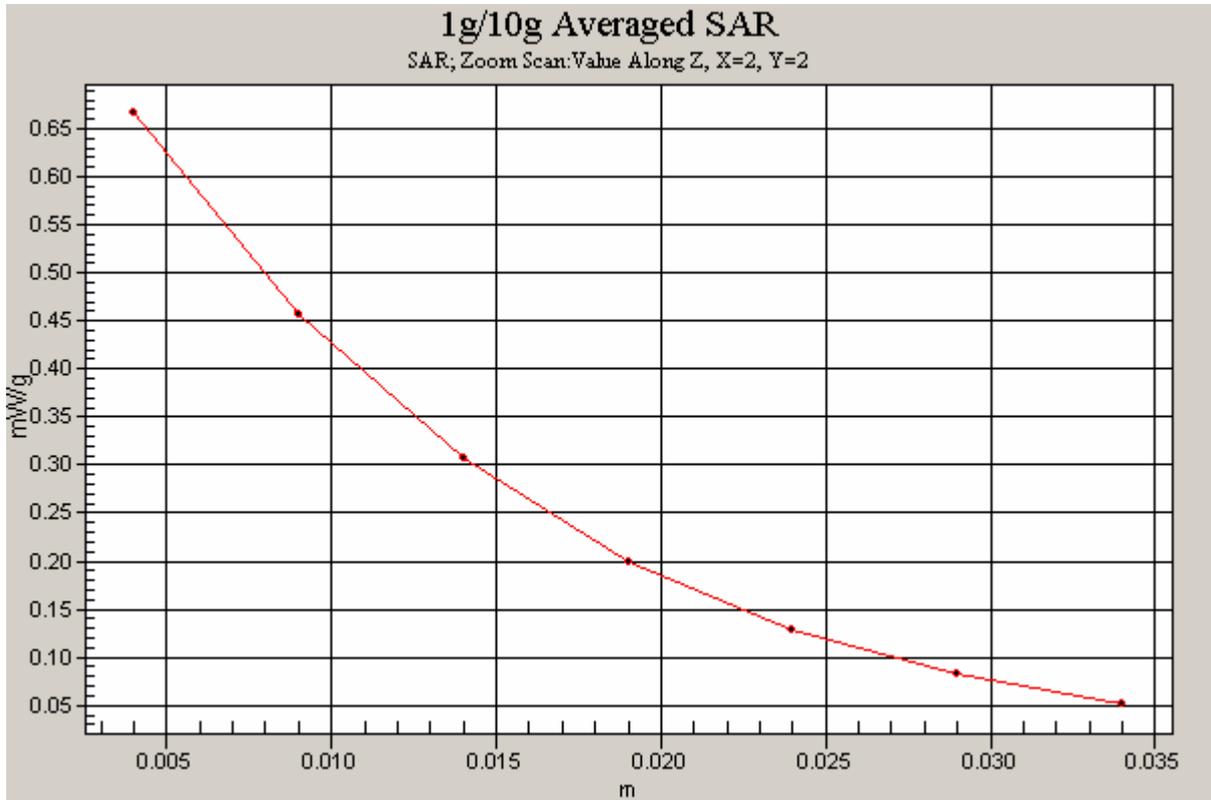


Figure 52 Z-Scan at power reference point (Body, Towards Ground, Open, GSM 1900 GPRS, Channel 512)

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; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards phantom, High /Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.225 mW/g

Towards phantom, High /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.43 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 0.327 W/kg

SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.126 mW/g

Maximum value of SAR (measured) = 0.222 mW/g

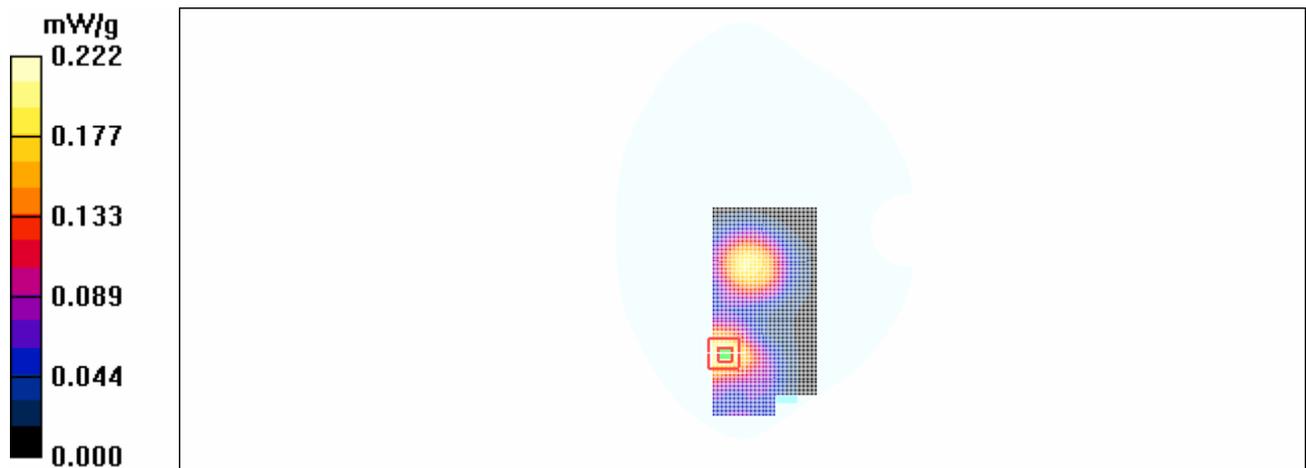


Figure 53 Body, Towards Phantom, Open, GSM1900 GPRS, Channel 810

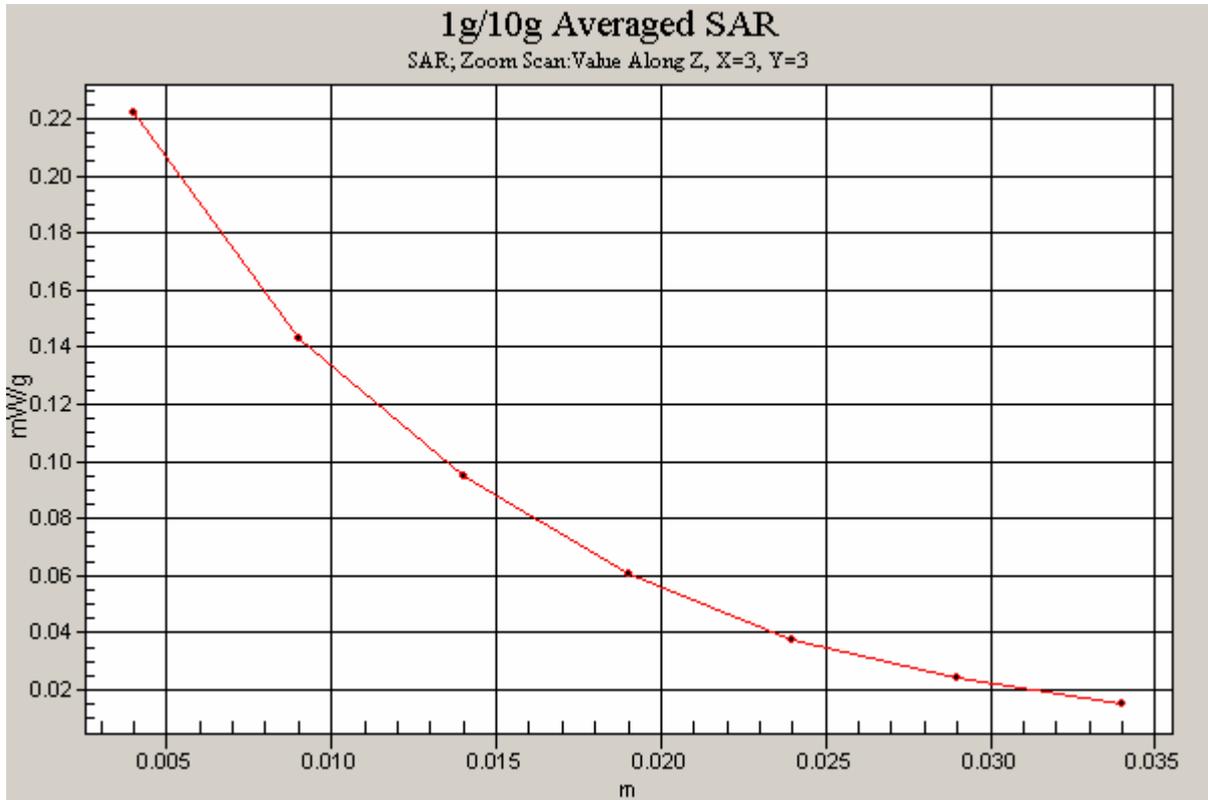


Figure 54 Z-Scan at power reference point (Body, Towards Phantom, Open, GSM 1900 GPRS, Channel 810)

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; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards phantom, Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.292 mW/g

Towards phantom, Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.78 V/m; Power Drift = 0.180 dB

Peak SAR (extrapolated) = 0.361 W/kg

SAR(1 g) = 0.246 mW/g; SAR(10 g) = 0.160 mW/g

Maximum value of SAR (measured) = 0.264 mW/g

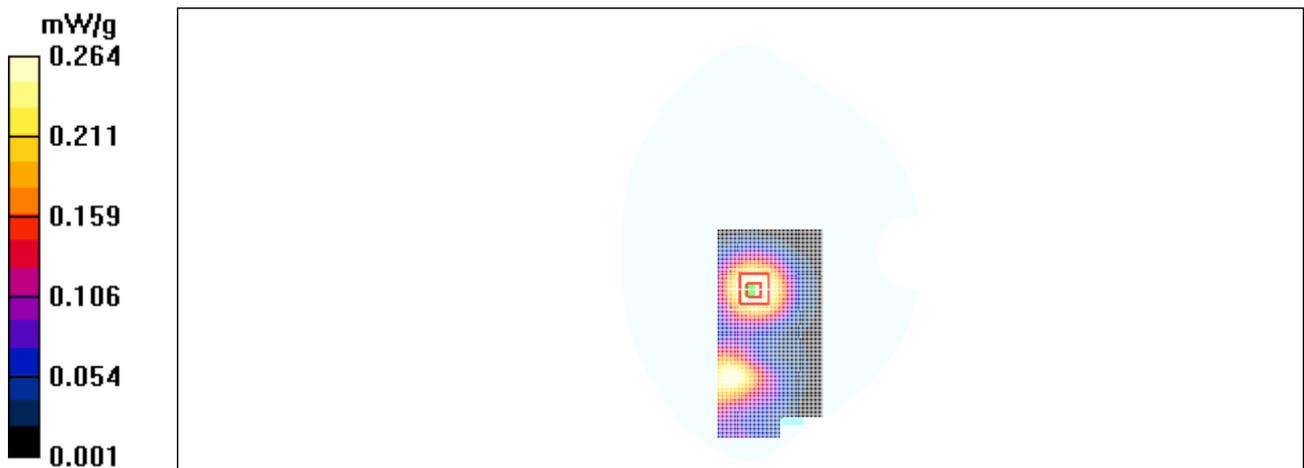


Figure 55 Body, Towards Phantom, Open, GSM1900 GPRS, Channel 661

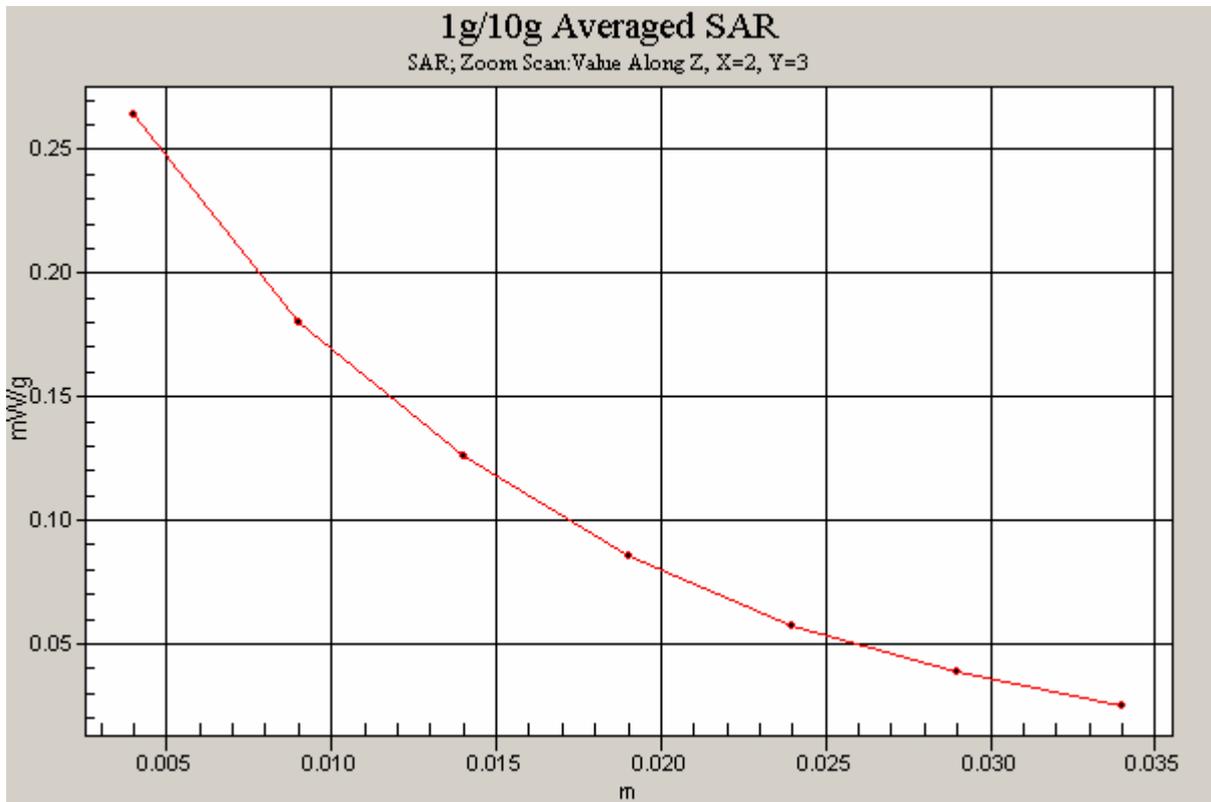


Figure 56 Z-Scan at power reference point (Body, Towards Phantom, Open, GSM 1900 GPRS, Channel 661)

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; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE3 Sn452;

Towards phantom, Low /Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.368 mW/g

Towards phantom, Low /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.81 V/m; Power Drift = -0.015 dB
Peak SAR (extrapolated) = 0.475 W/kg
SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.211 mW/g
Maximum value of SAR (measured) = 0.354 mW/g

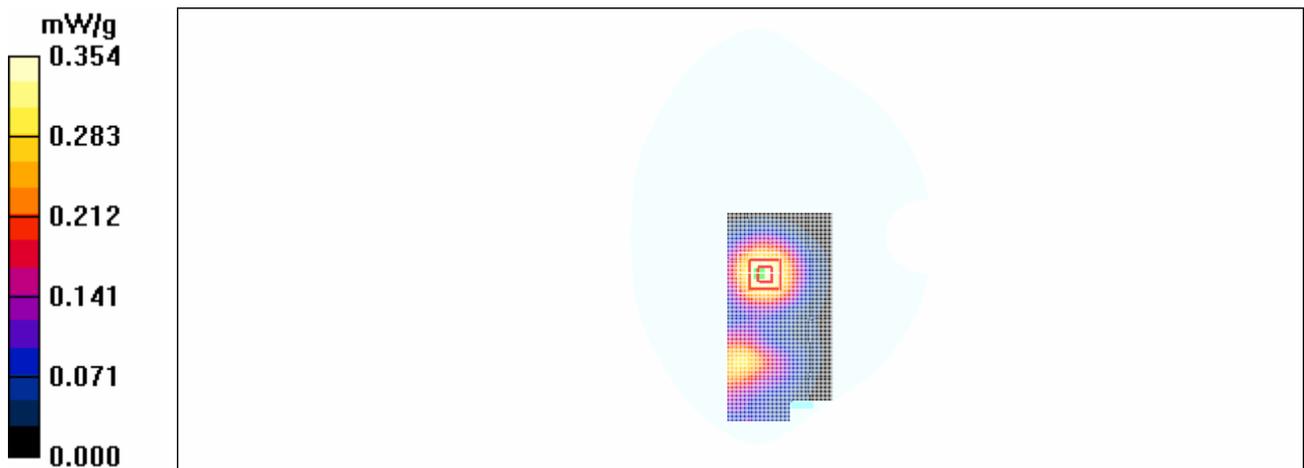


Figure 57 Body, Towards Phantom, Open, GSM1900 GPRS, Channel 512

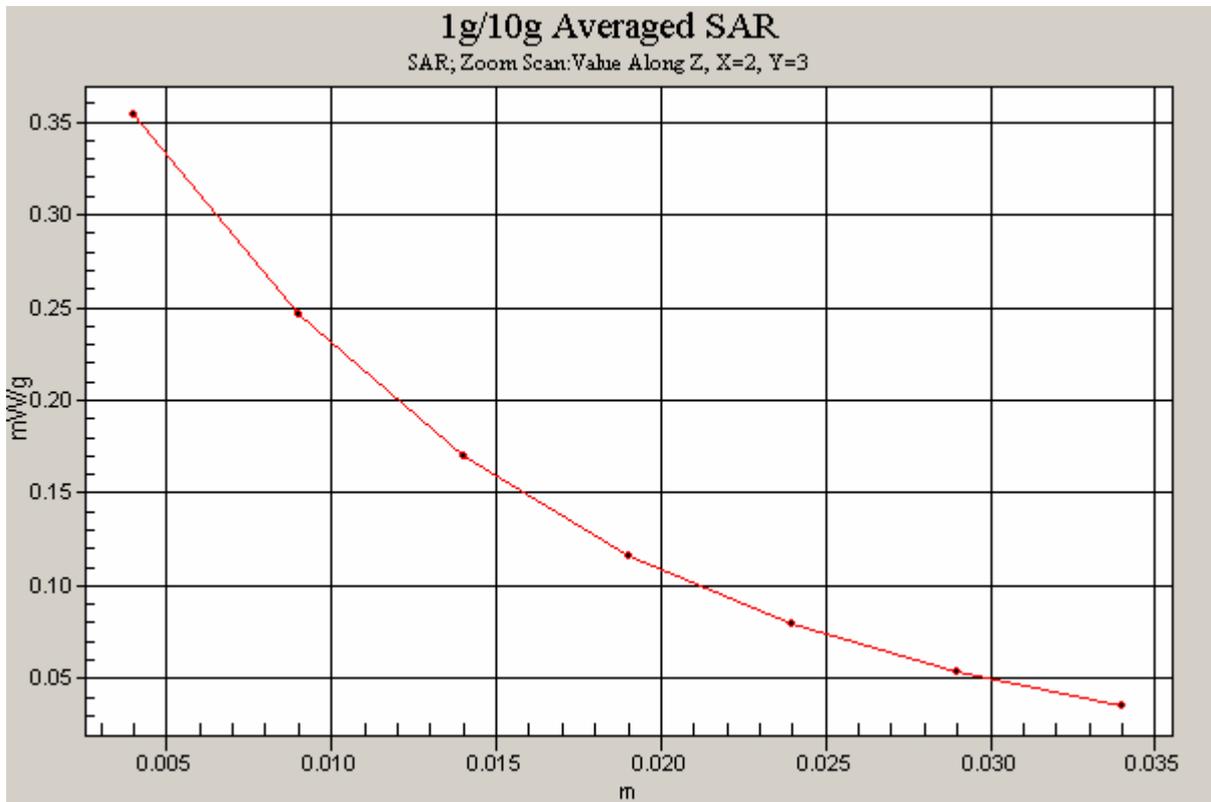


Figure 58 Z-Scan at power reference point (Body, Towards Phantom, Open, GSM 1900 GPRS, Channel 512)

GSM 1900 EGPRS Towards Ground Low Open

Communication System: GSM 1900+EGPRS(2Up); Frequency: 1850.2 MHz; Duty Cycle: 1:4
Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE3 Sn452;

Towards ground, Low/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.282 mW/g

Towards ground, Low /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.60 V/m; Power Drift = 0.002 dB
Peak SAR (extrapolated) = 0.448 W/kg
SAR(1 g) = 0.273 mW/g; SAR(10 g) = 0.156 mW/g
Maximum value of SAR (measured) = 0.301 mW/g

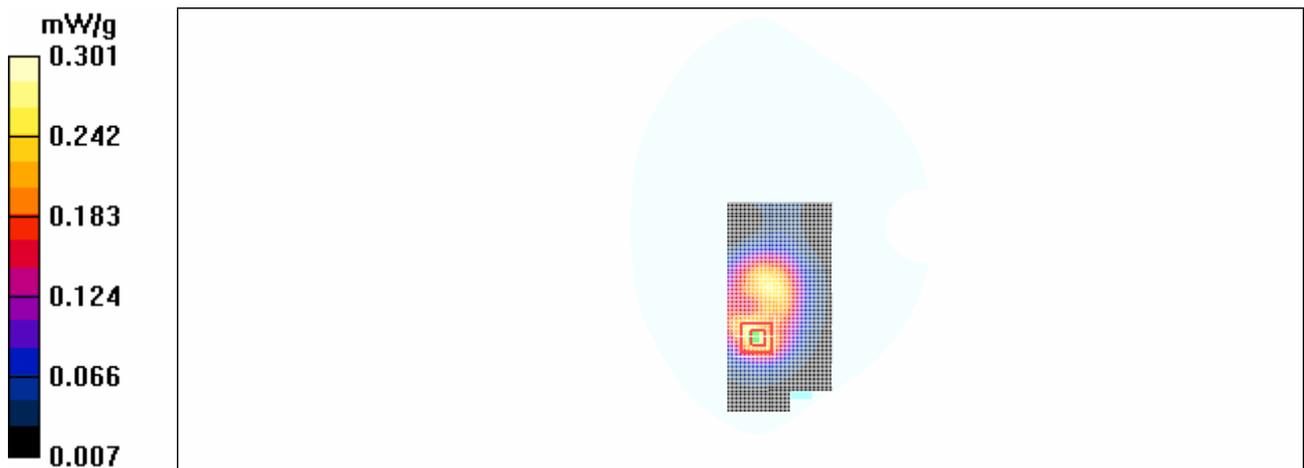


Figure 59 Body, Towards Ground, Open, GSM1900 EGPRS, Channel 512

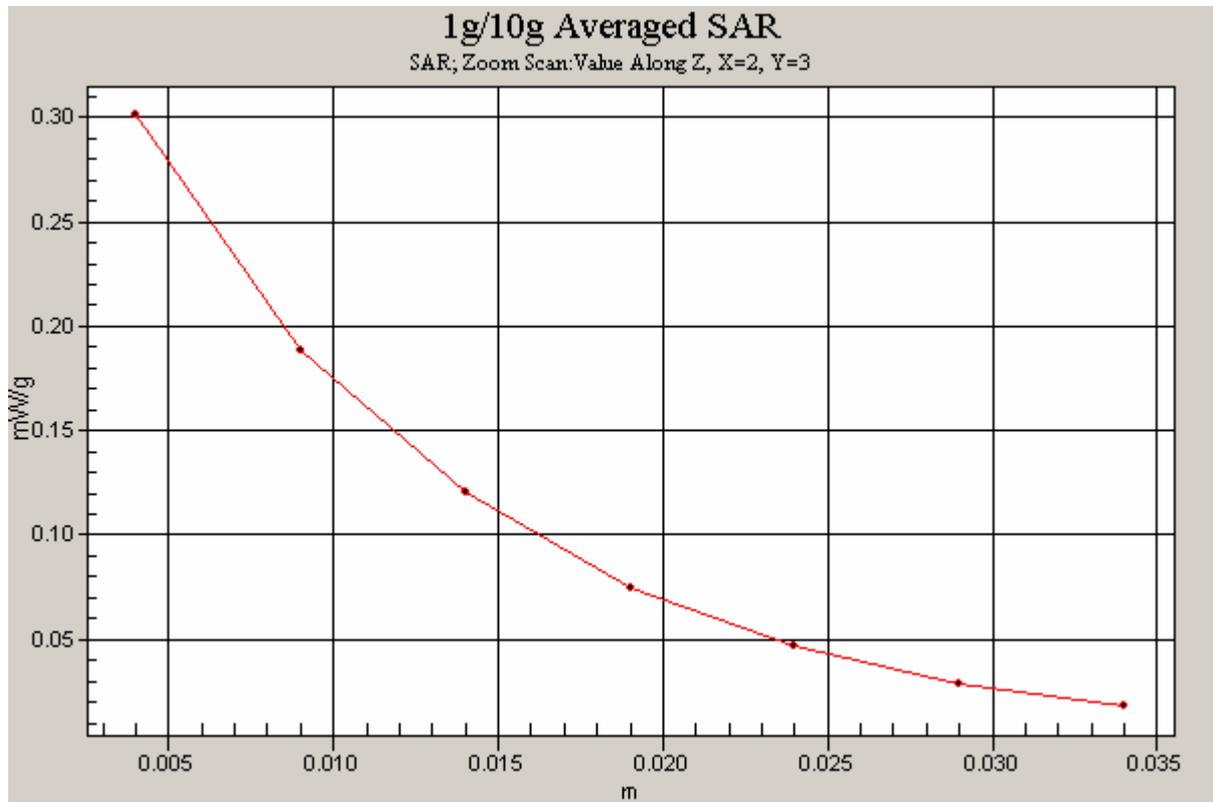


Figure 60 Z-Scan at power reference point (Body, Towards Ground, Open, GSM 1900 EGPRS, Channel 512)

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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Cheek High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.200 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.10 V/m; Power Drift = -0.129 dB

Peak SAR (extrapolated) = 0.278 W/kg

SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.120 mW/g

Maximum value of SAR (measured) = 0.206 mW/g

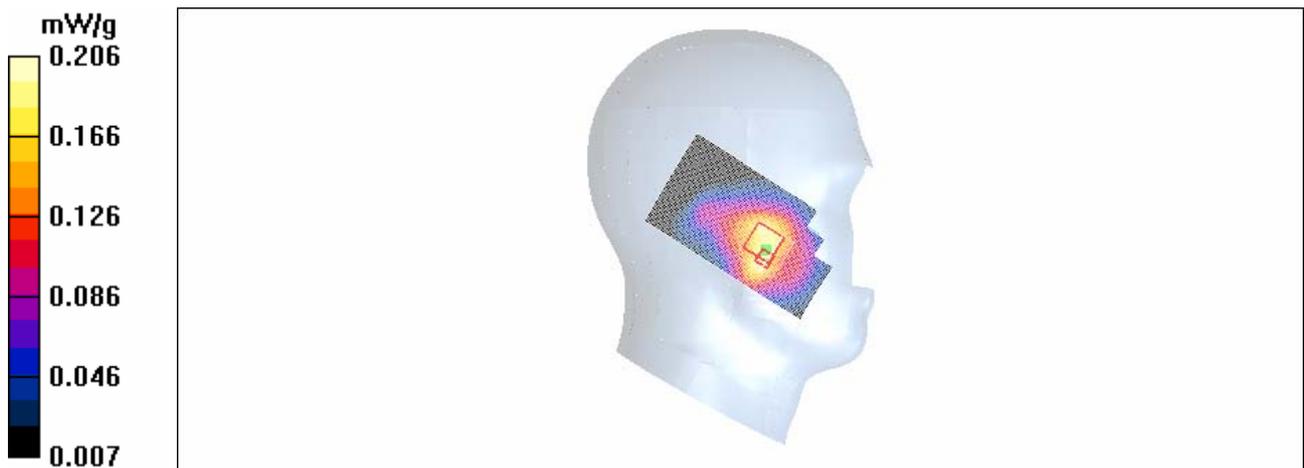


Figure 61 Left Hand Touch Cheek Close GSM 1900 Channel 810

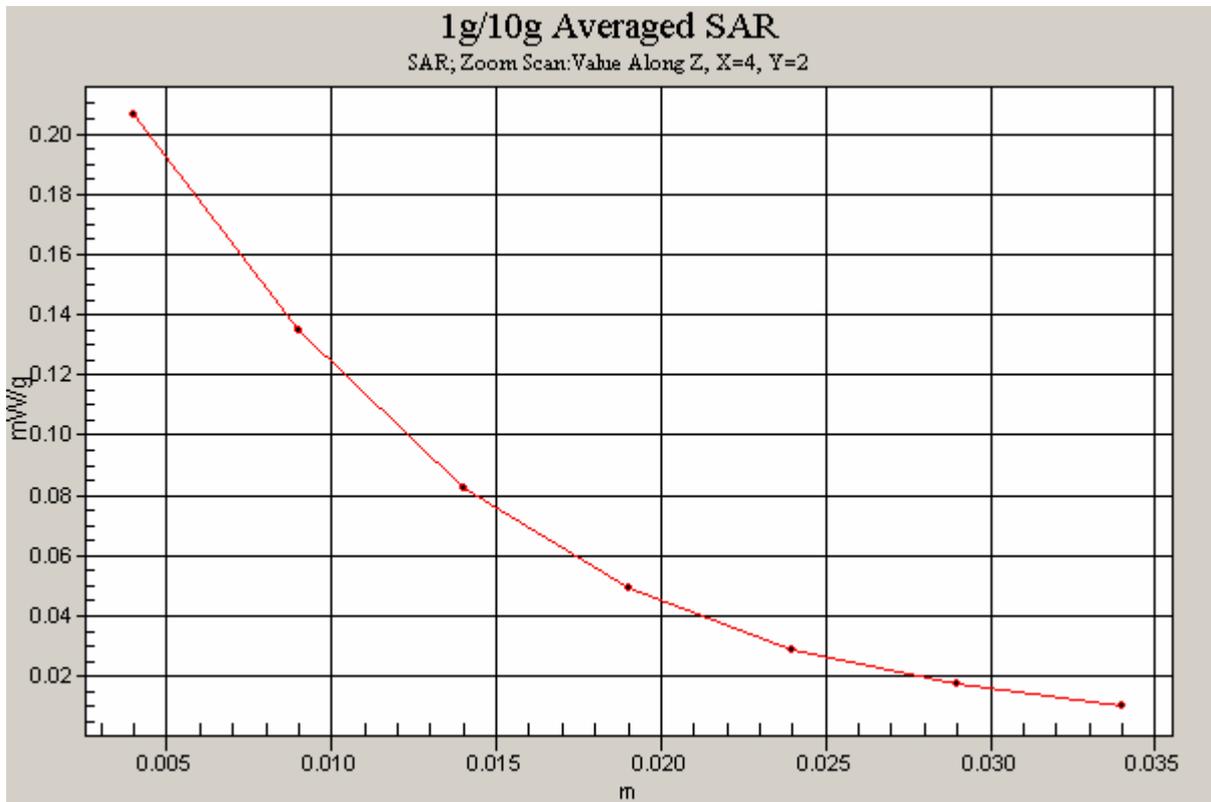


Figure 62 Z-Scan at power reference point (Left Hand Touch Cheek Close GSM 1900 Channel 810)

GSM 1900 Left Cheek Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Cheek Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.42 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.352 W/kg

SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.149 mW/g

Maximum value of SAR (measured) = 0.262 mW/g

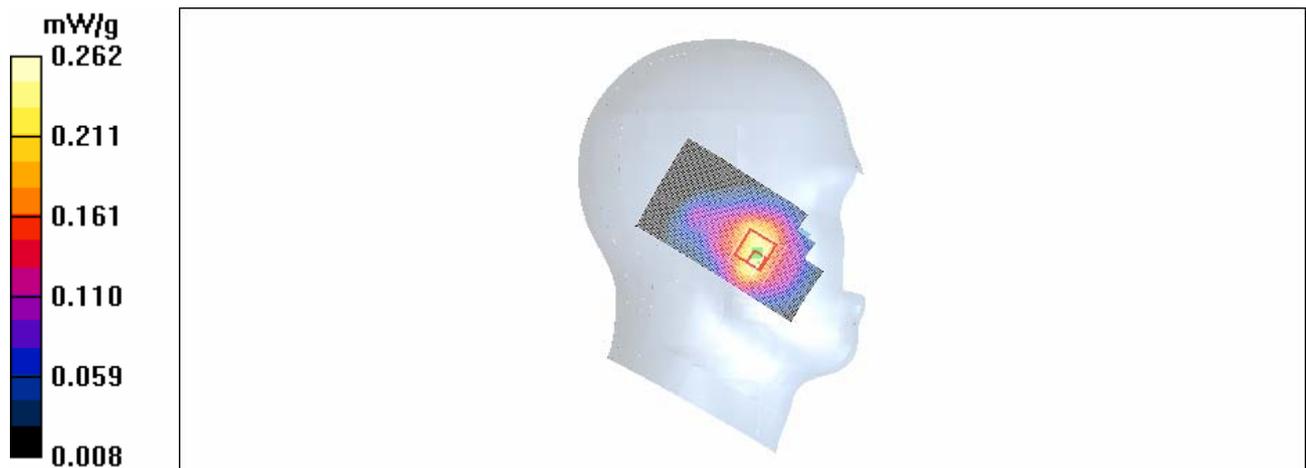


Figure 63 Left Hand Touch Cheek Close GSM 1900 Channel 661

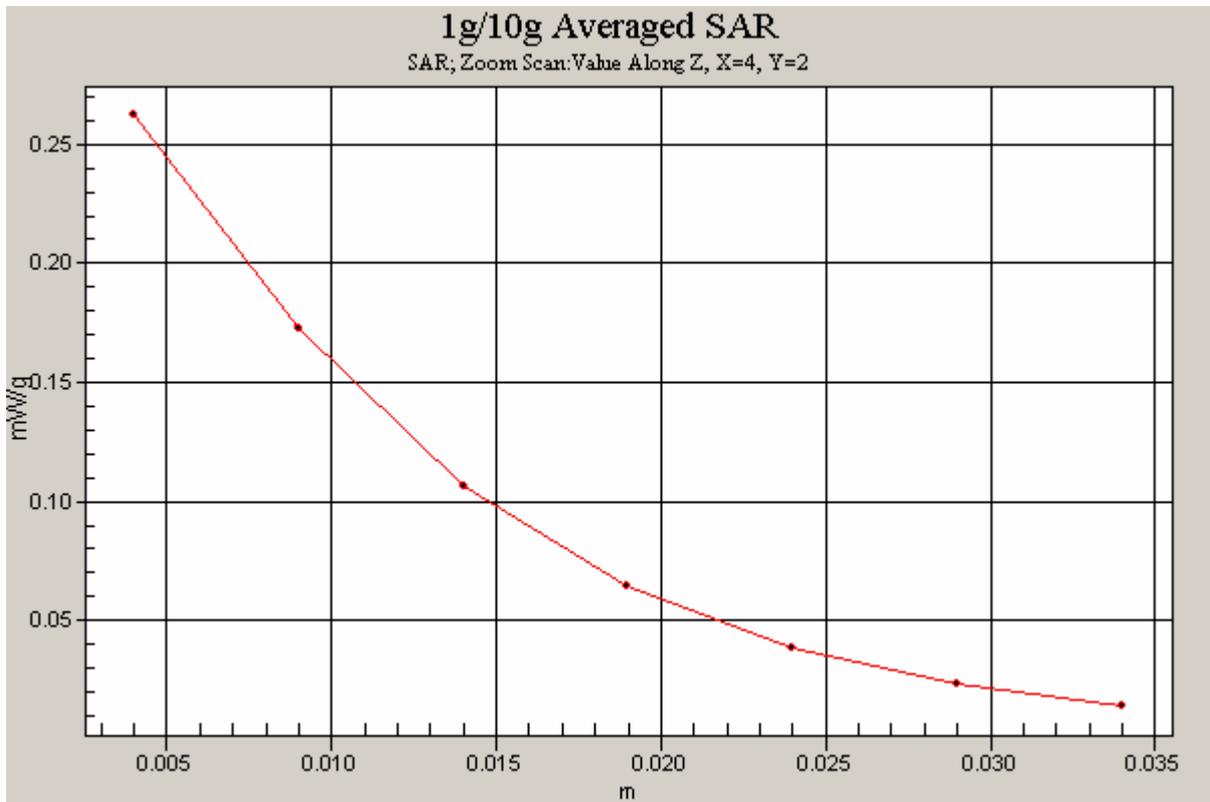


Figure 64 Z-Scan at power reference point (Left Hand Touch Cheek Close GSM 1900 Channel 661)

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; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Cheek Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.331 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.93 V/m; Power Drift = 0.090 dB

Peak SAR (extrapolated) = 0.440 W/kg

SAR(1 g) = 0.303 mW/g; SAR(10 g) = 0.192 mW/g

Maximum value of SAR (measured) = 0.335 mW/g

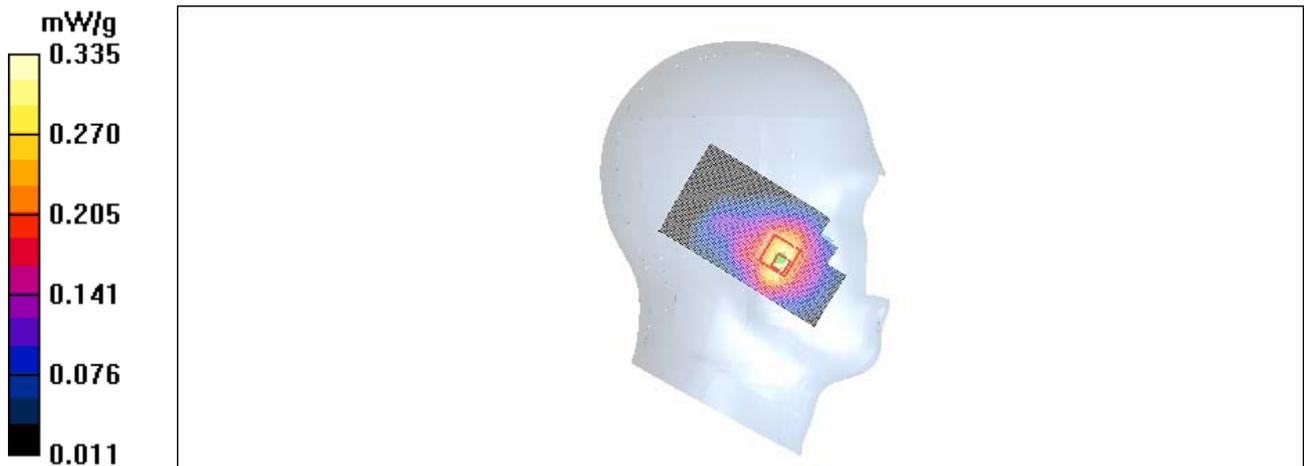


Figure 65 Left Hand Touch Cheek Close GSM 1900 Channel 512

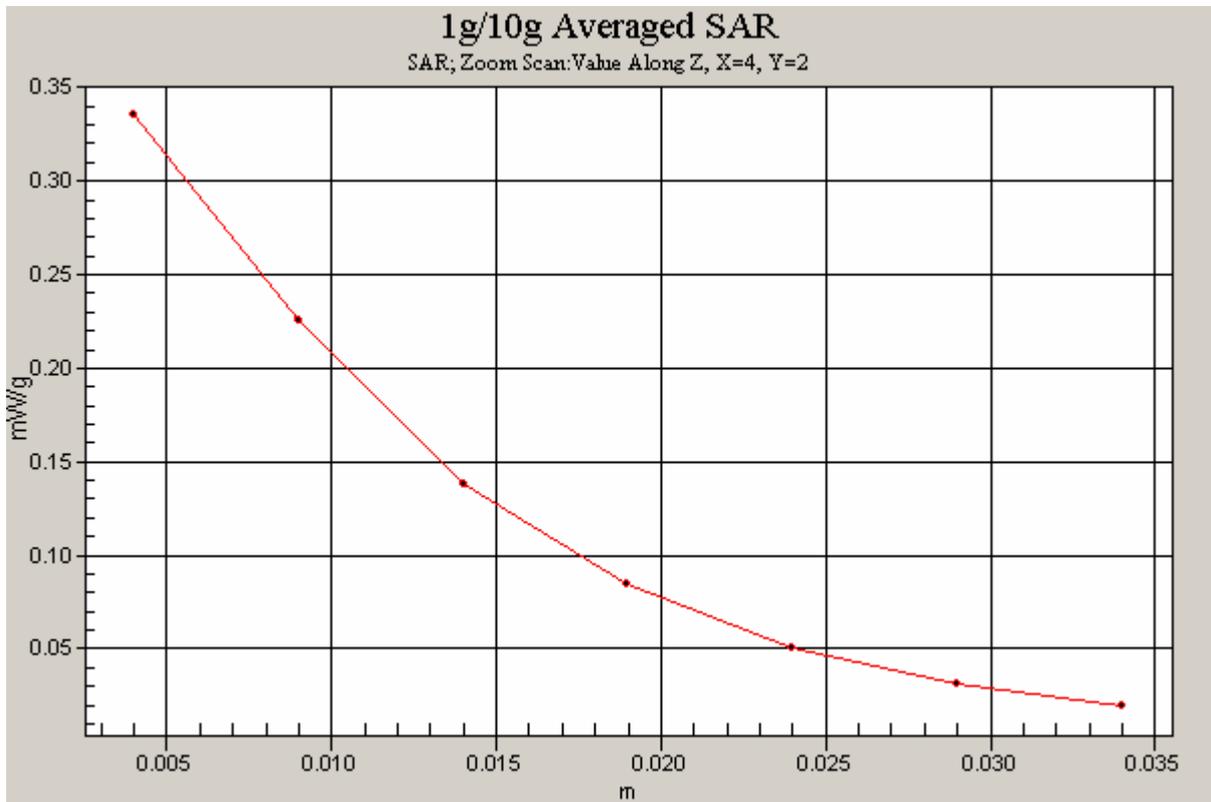


Figure 66 Z-Scan at power reference point (Left Hand Touch Cheek Close GSM 1900 Channel 512)

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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Tilt High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.172 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.49 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 0.209 W/kg

SAR(1 g) = 0.136 mW/g; SAR(10 g) = 0.081 mW/g

Maximum value of SAR (measured) = 0.148 mW/g

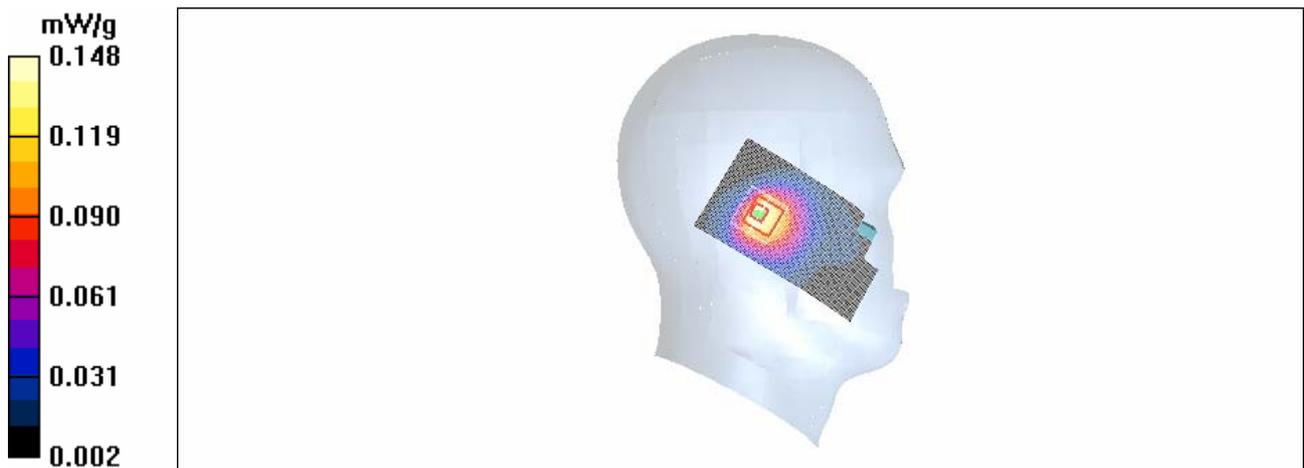


Figure 67 Left Hand Tilt Close GSM 1900 Channel 810

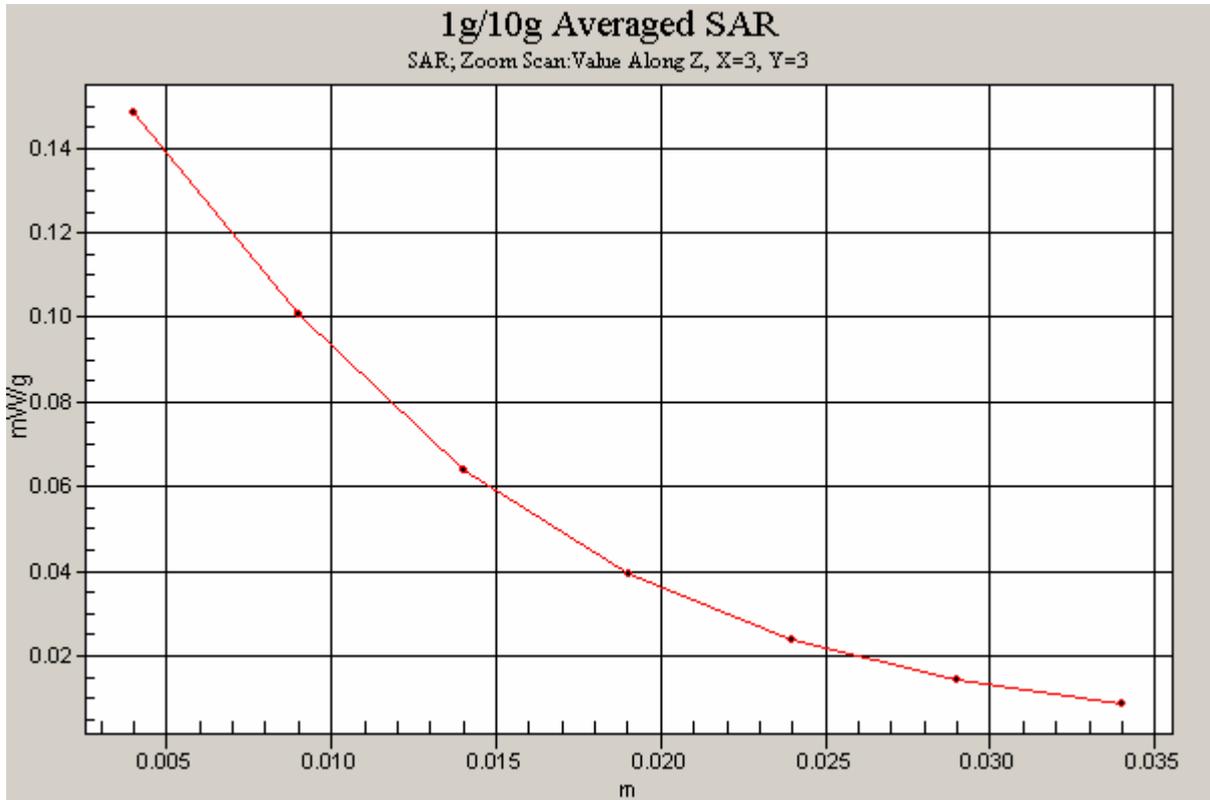


Figure 68 Z-Scan at power reference point (Left Hand Tilt Close GSM 1900 Channel 810)

GSM 1900 Left Tilt Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Tilt Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.181 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.46 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.222 W/kg

SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.087 mW/g

Maximum value of SAR (measured) = 0.157 mW/g

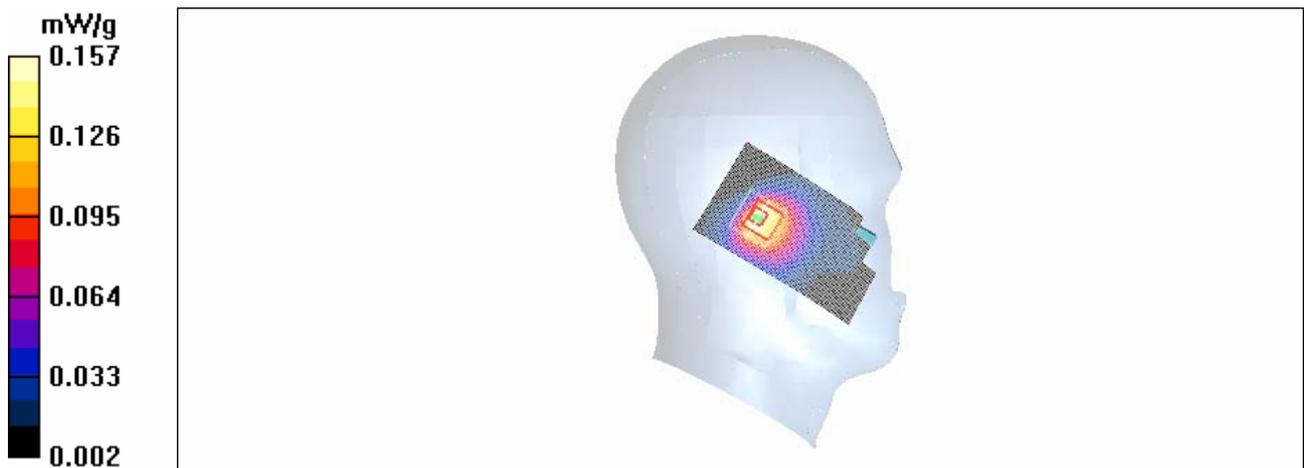


Figure 69 Left Hand Tilt Close GSM 1900 Channel 661

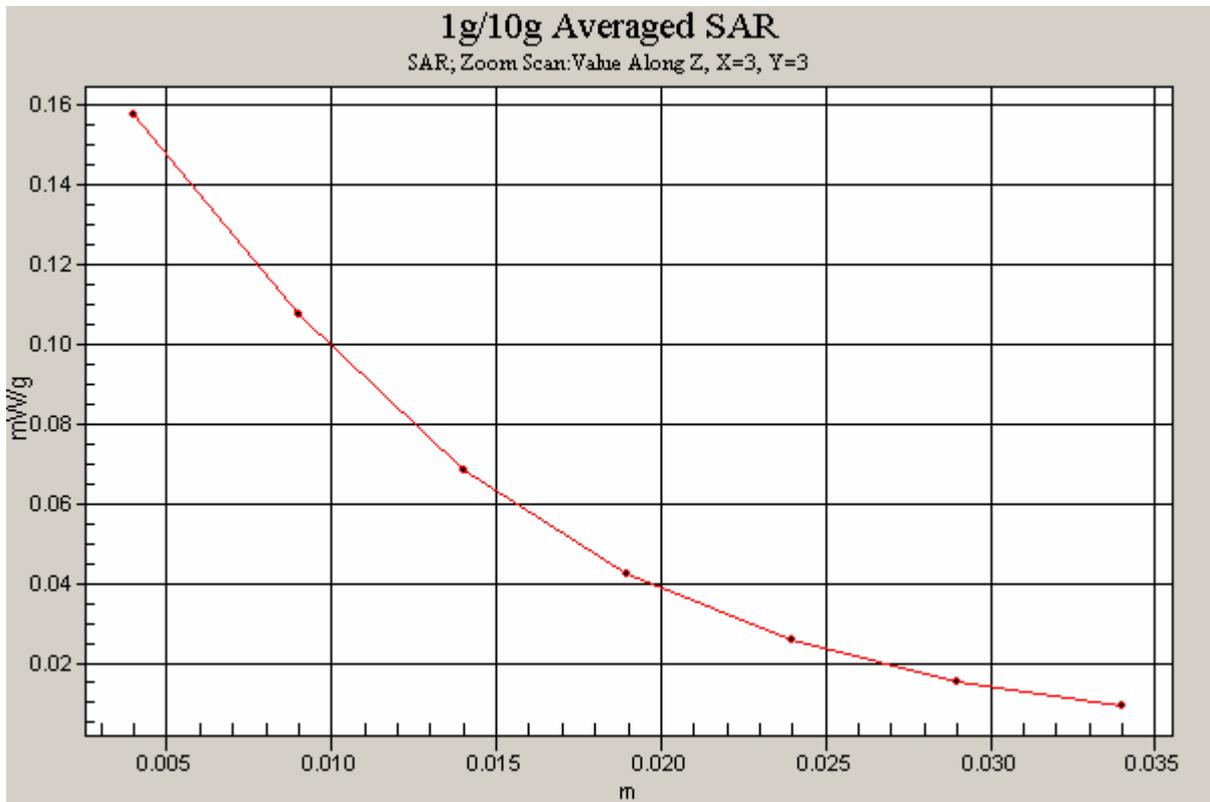


Figure 70 Z-Scan at power reference point (Left Hand Tilt Close GSM 1900 Channel 661)

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; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Tilt Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.213 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.03 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.250 W/kg

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.100 mW/g

Maximum value of SAR (measured) = 0.181 mW/g

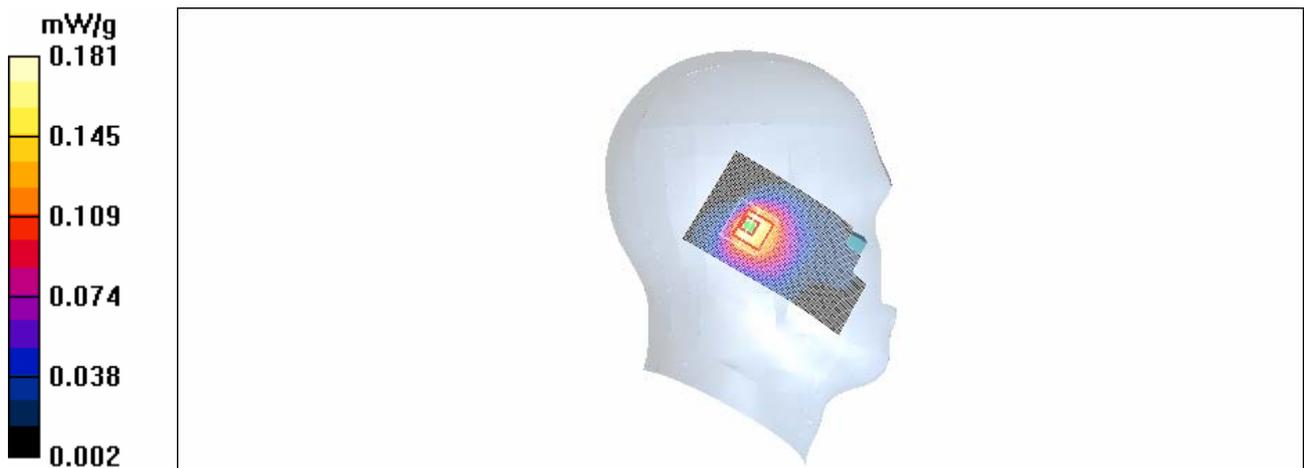


Figure 71 Left Hand Tilt Close GSM 1900 Channel 512

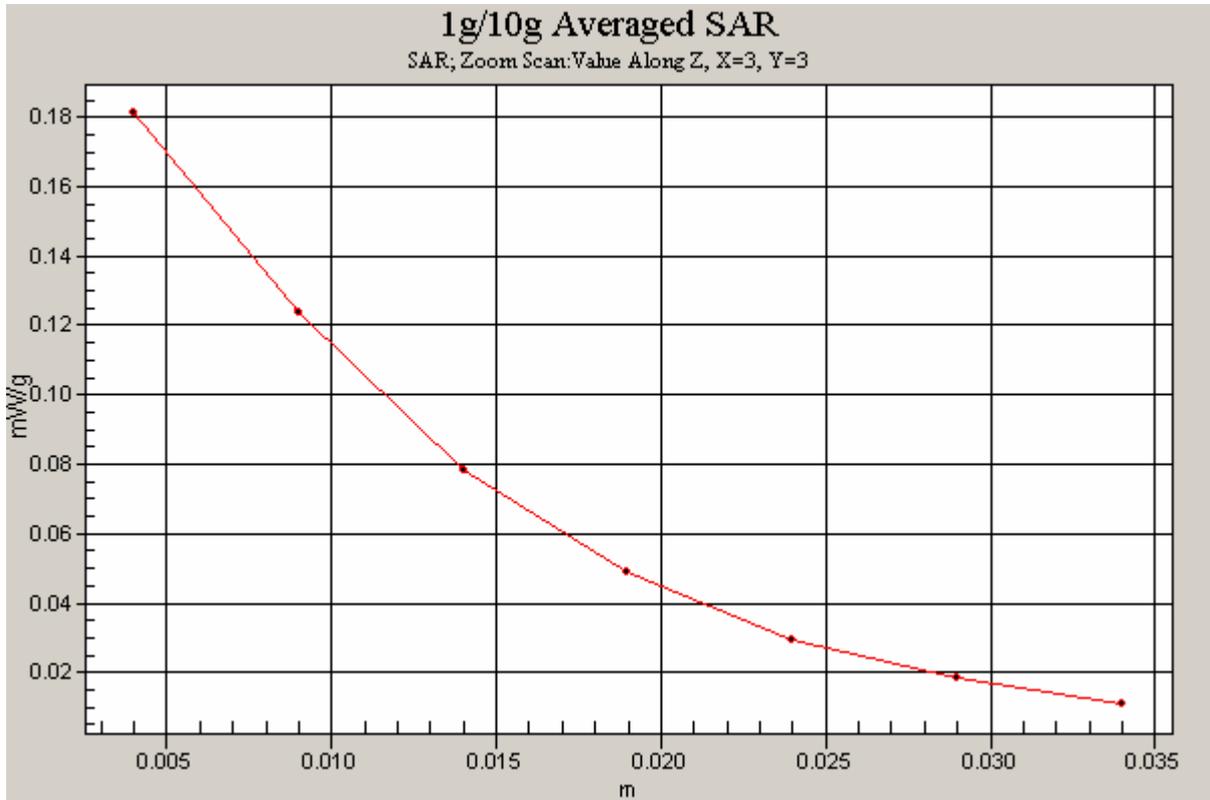


Figure 72 Z-Scan at power reference point (Left Hand Tilt Close GSM 1900 Channel 512)

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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Cheek High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.232 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.67 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 0.313 W/kg

SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.136 mW/g

Maximum value of SAR (measured) = 0.249 mW/g

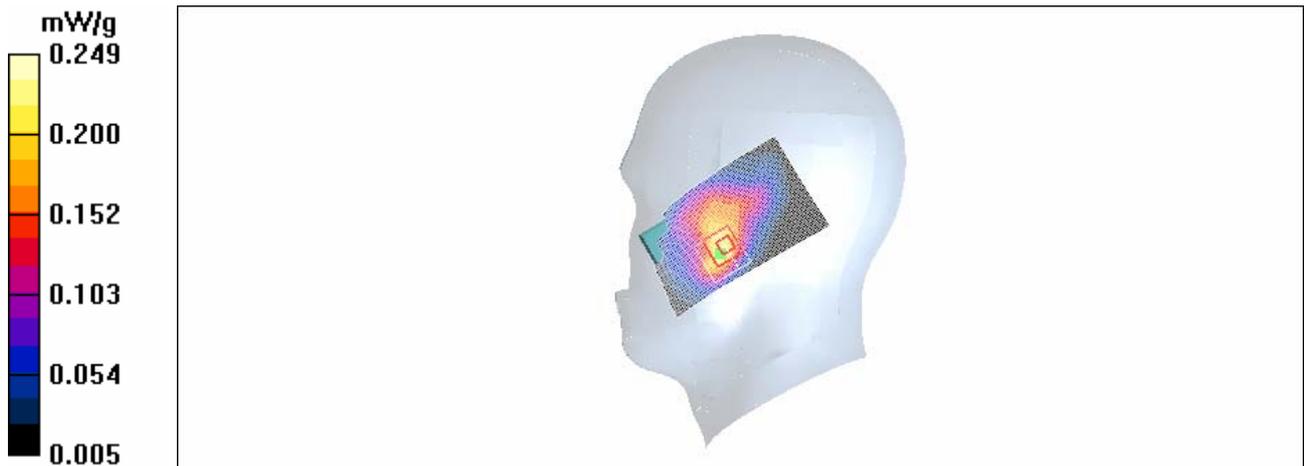


Figure 73 Right Hand Touch Cheek Close GSM 1900 Channel 810

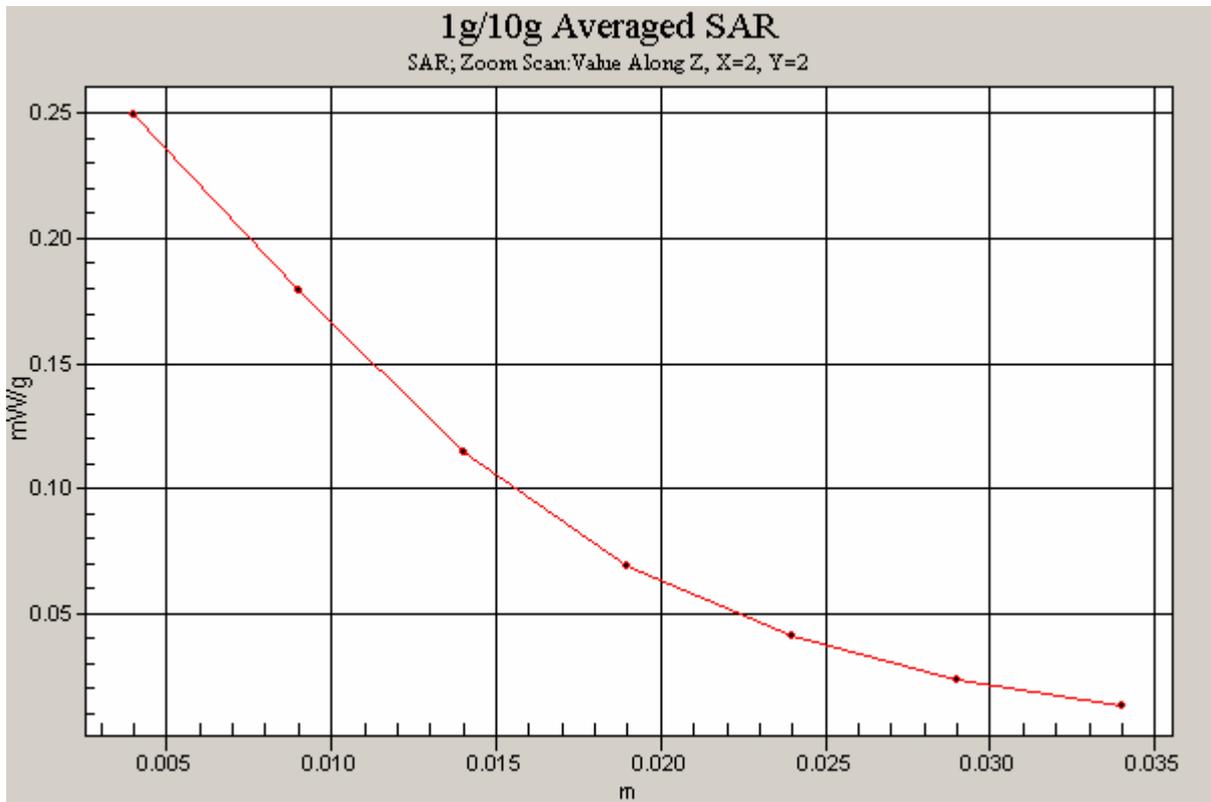


Figure 74 Z-Scan at power reference point (Right Hand Touch Close Cheek GSM 1900 Channel 810)

GSM 1900 Right Cheek Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Cheek Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.279 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.33 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.368 W/kg

SAR(1 g) = 0.267 mW/g; SAR(10 g) = 0.164 mW/g

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

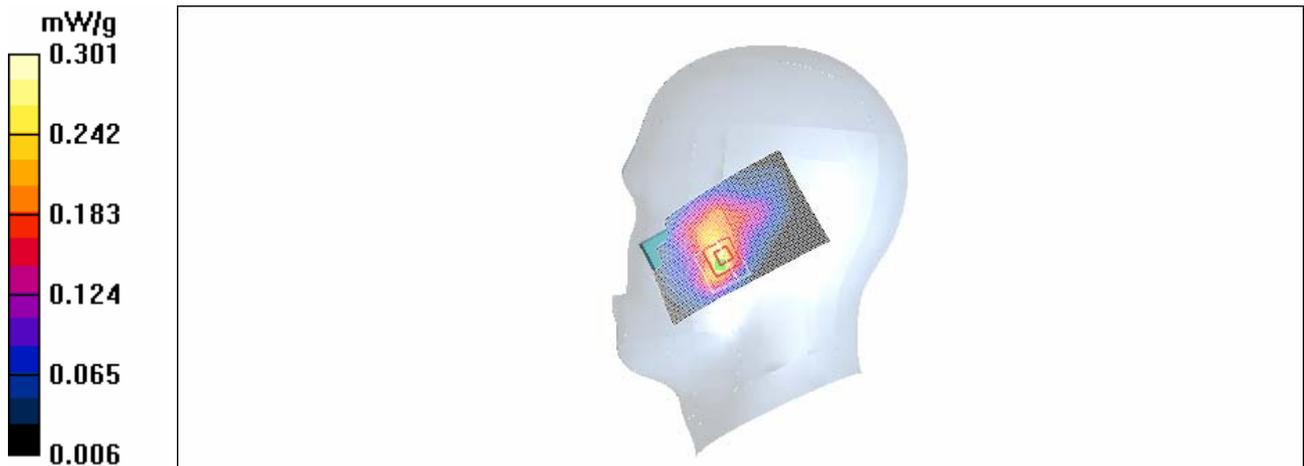


Figure 75 Right Hand Touch Cheek Close GSM 1900 Channel 661

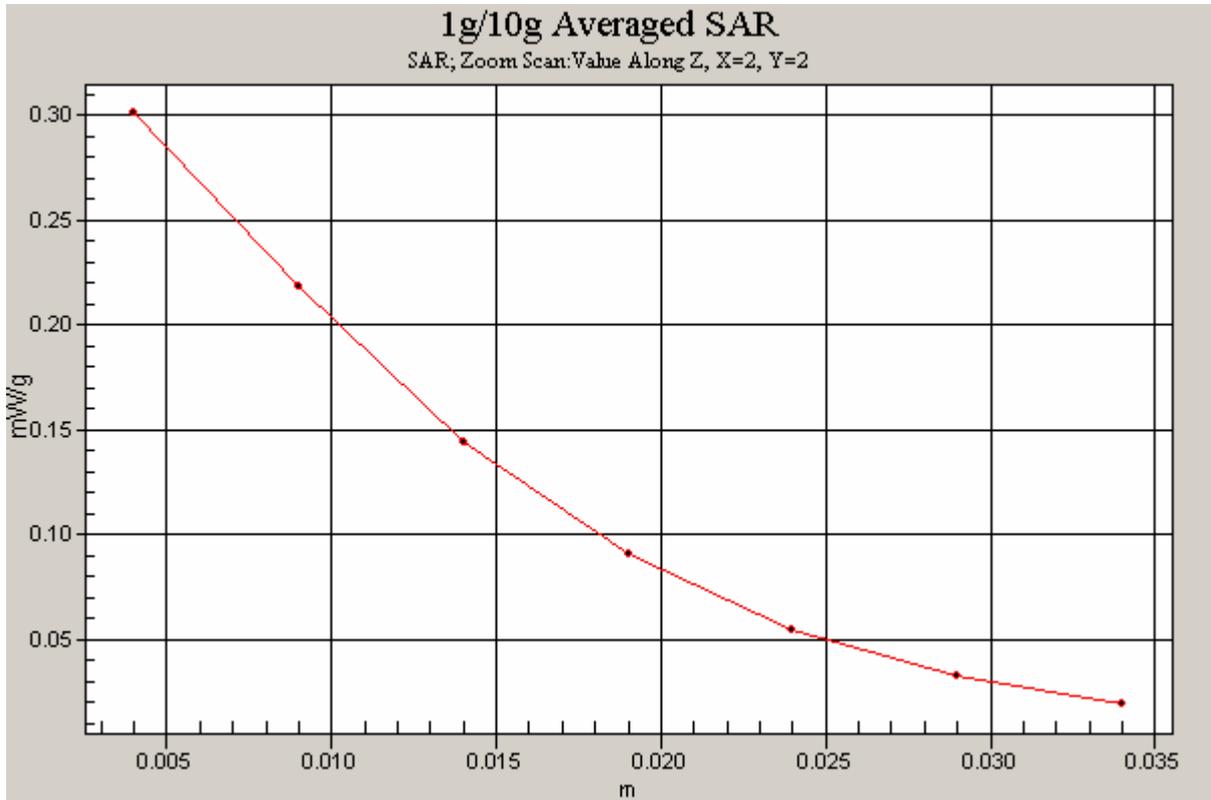


Figure 76 Z-Scan at power reference point (Right Hand Touch Close Cheek GSM 1900 Channel 661)

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; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Cheek Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.357 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.4 V/m; Power Drift = 0.112 dB

Peak SAR (extrapolated) = 0.470 W/kg

SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.210 mW/g

Maximum value of SAR (measured) = 0.388 mW/g

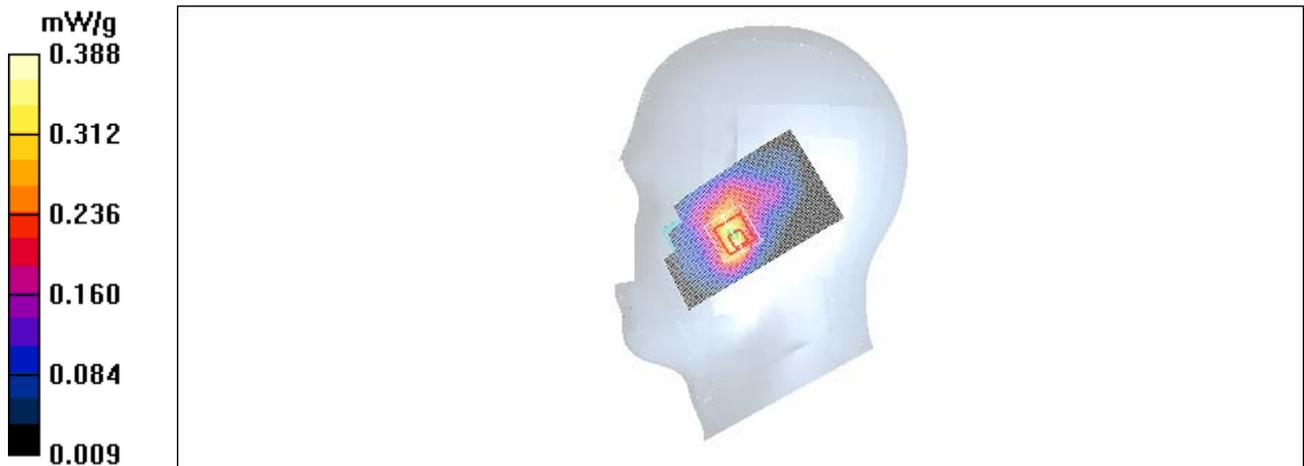


Figure 77 Right Hand Touch Cheek Close GSM 1900 Channel 512

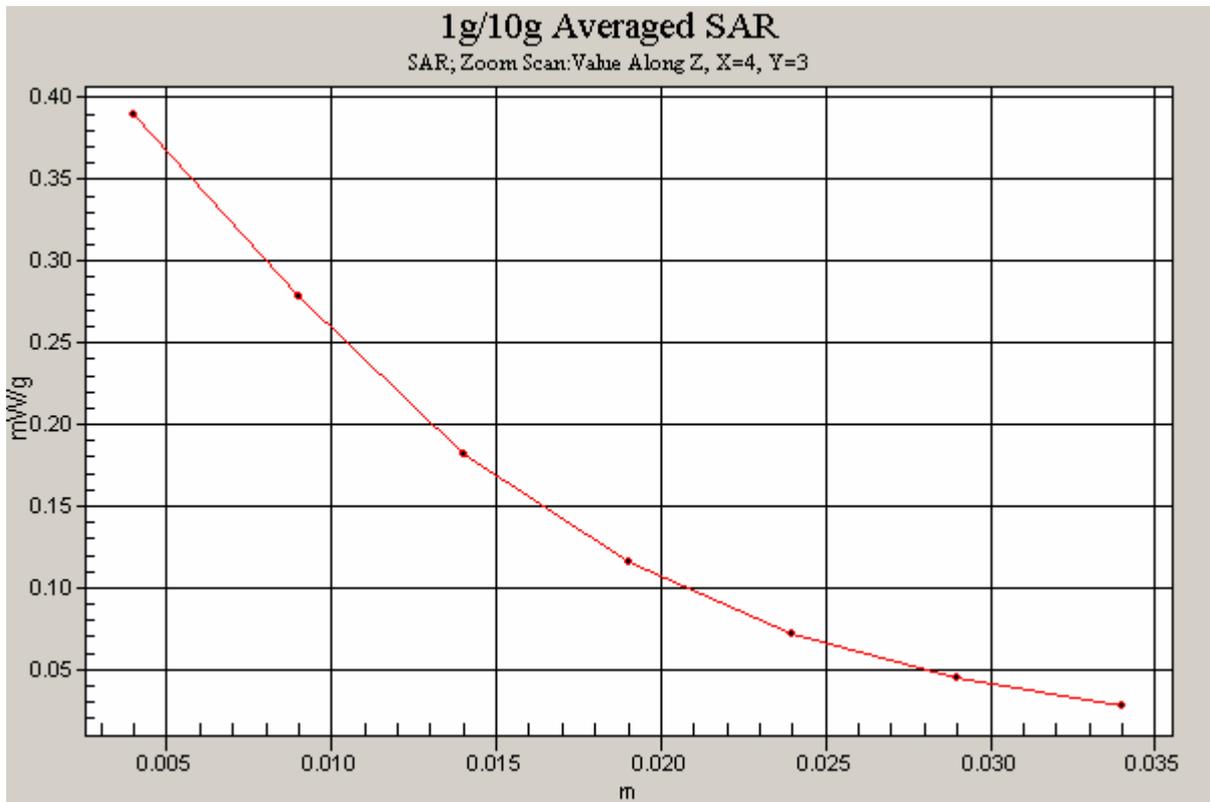


Figure 78 Z-Scan at power reference point (Right Hand Touch Cheek Close GSM 1900 Channel 512)

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; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Tilt High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.3 V/m; Power Drift = 0.144 dB

Peak SAR (extrapolated) = 0.252 W/kg

SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.099 mW/g

Maximum value of SAR (measured) = 0.183 mW/g

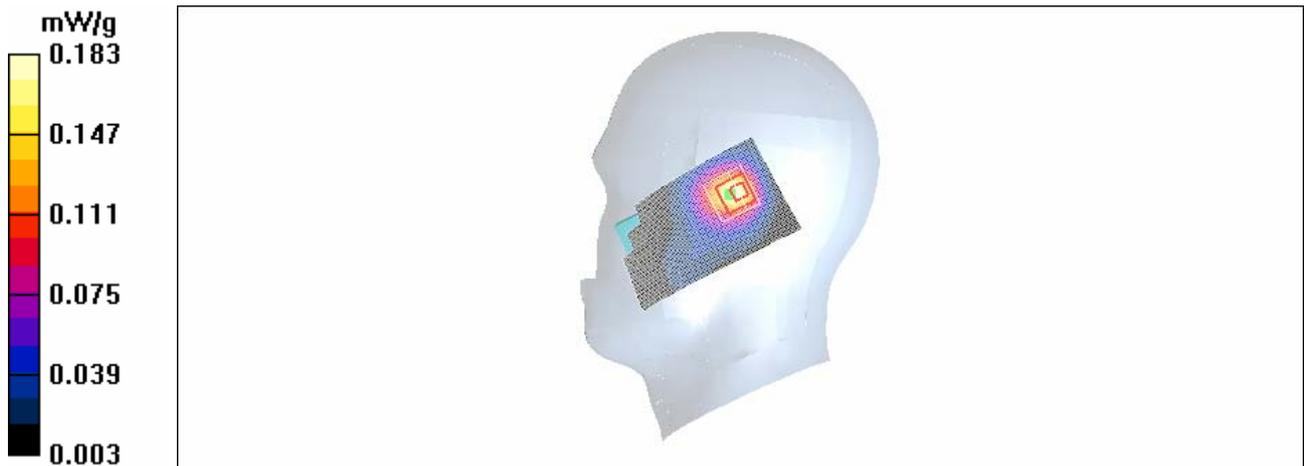


Figure 79 Right Hand Tilt Close GSM 1900 Channel 810

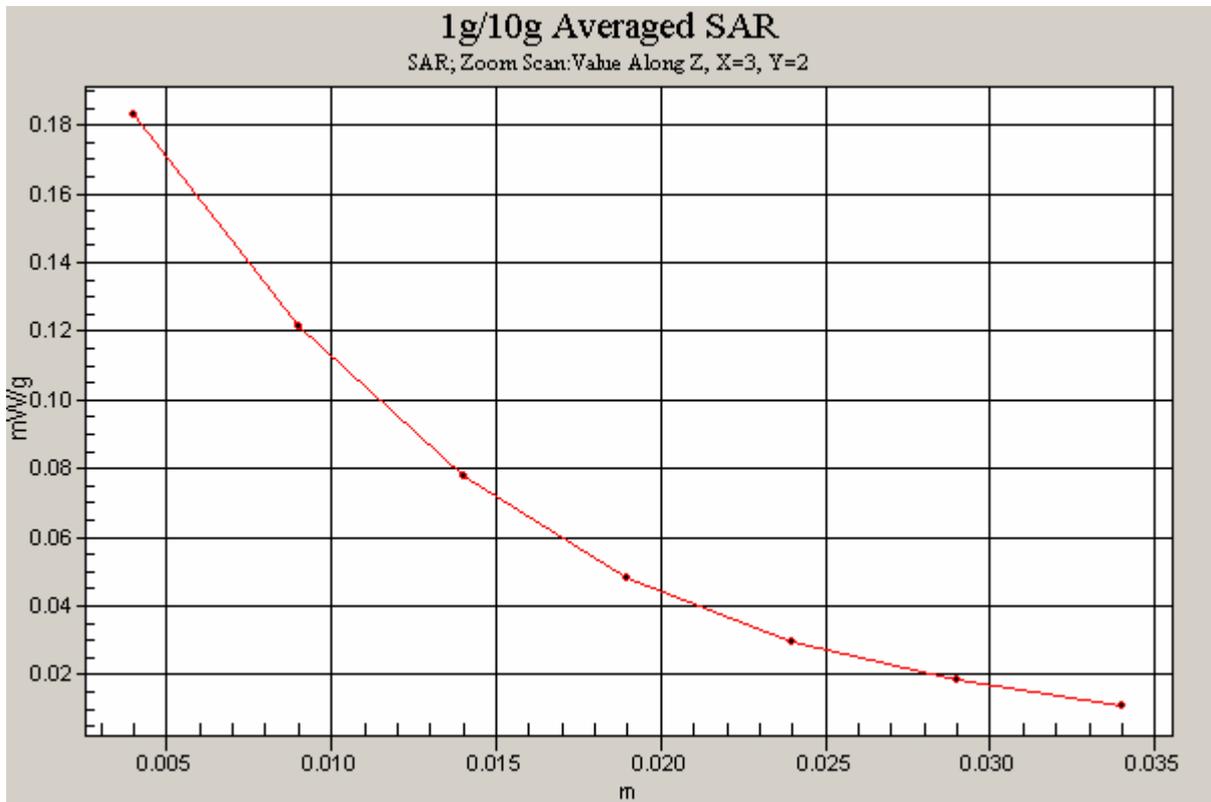


Figure 80 Z-Scan at power reference point (Right Hand Tilt Close GSM 1900 Channel 810)

GSM 1900 Right Tilt Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Tilt Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.202 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 0.268 W/kg

SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.106 mW/g

Maximum value of SAR (measured) = 0.197 mW/g

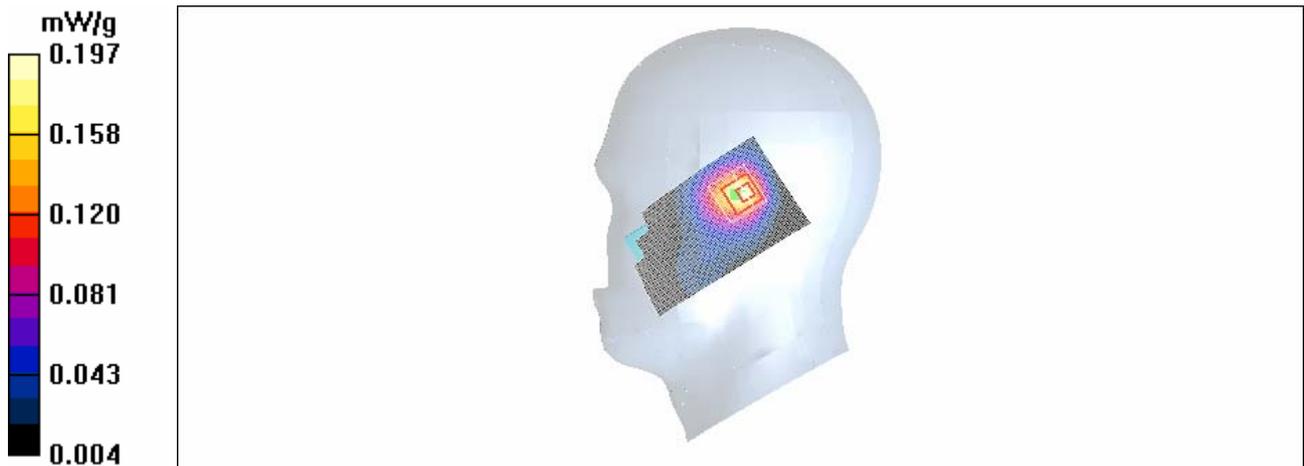


Figure 81 Right Hand Tilt Close GSM 1900 Channel 661

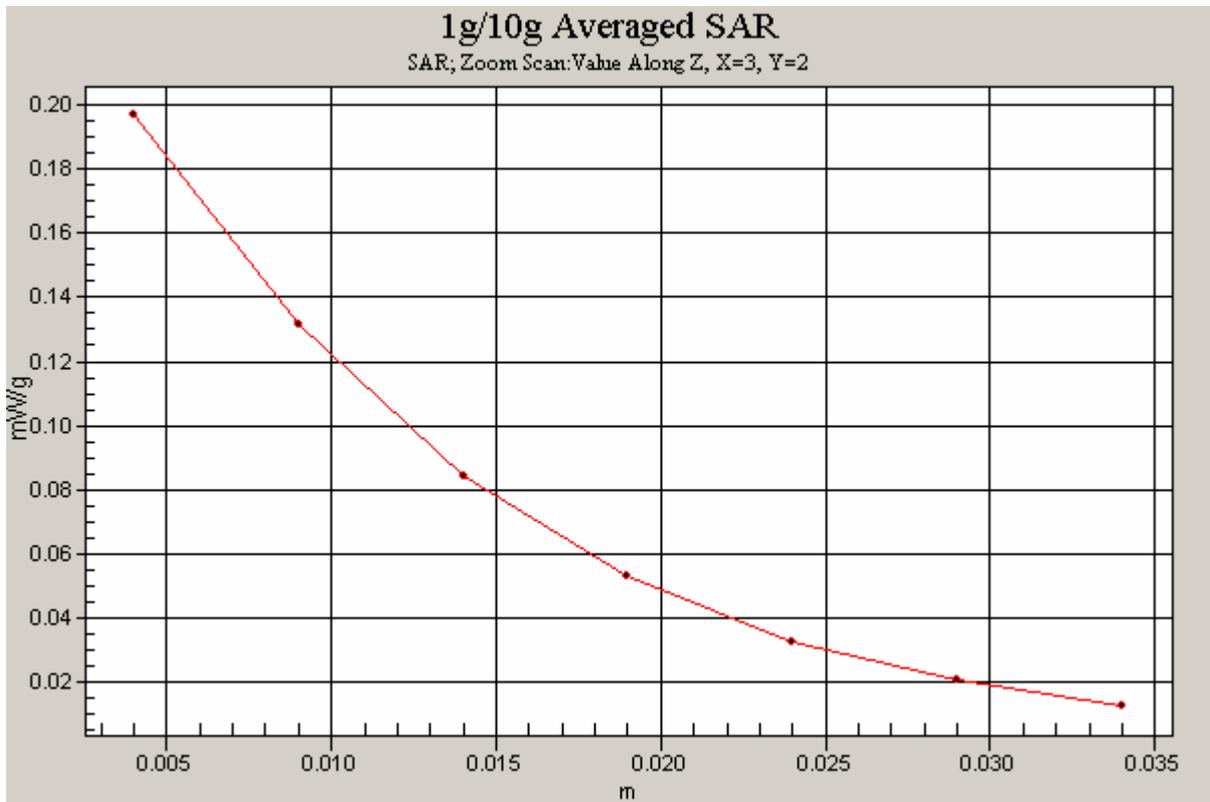


Figure 82 Z-Scan at power reference point (Right Hand Tilt Close GSM 1900 Channel 661)

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; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE3 Sn452;

Tilt Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.239 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = -0.004 dB

Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.126 mW/g

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

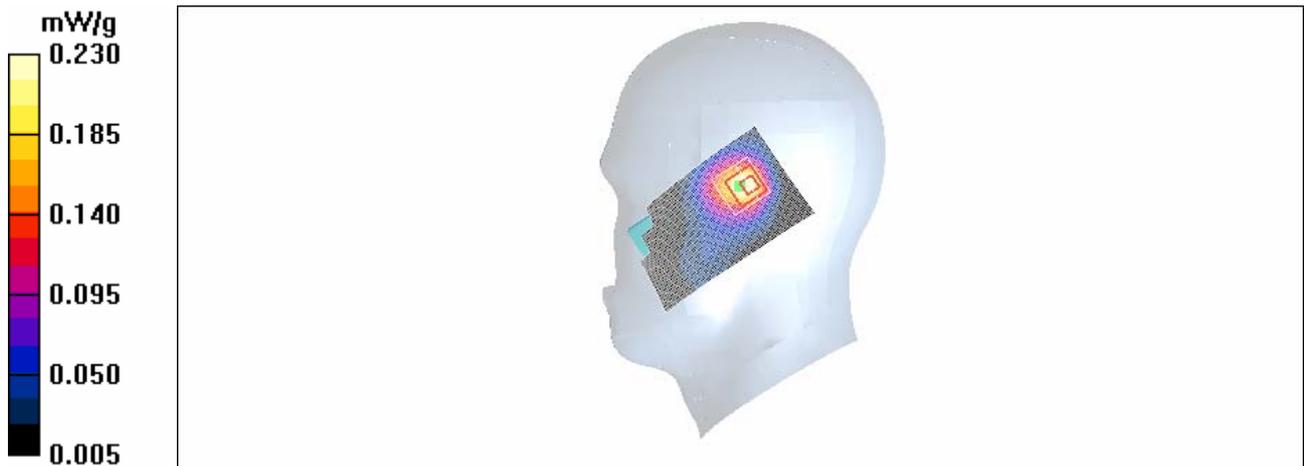


Figure 83 Right Hand Tilt Close GSM 1900 Channel 512

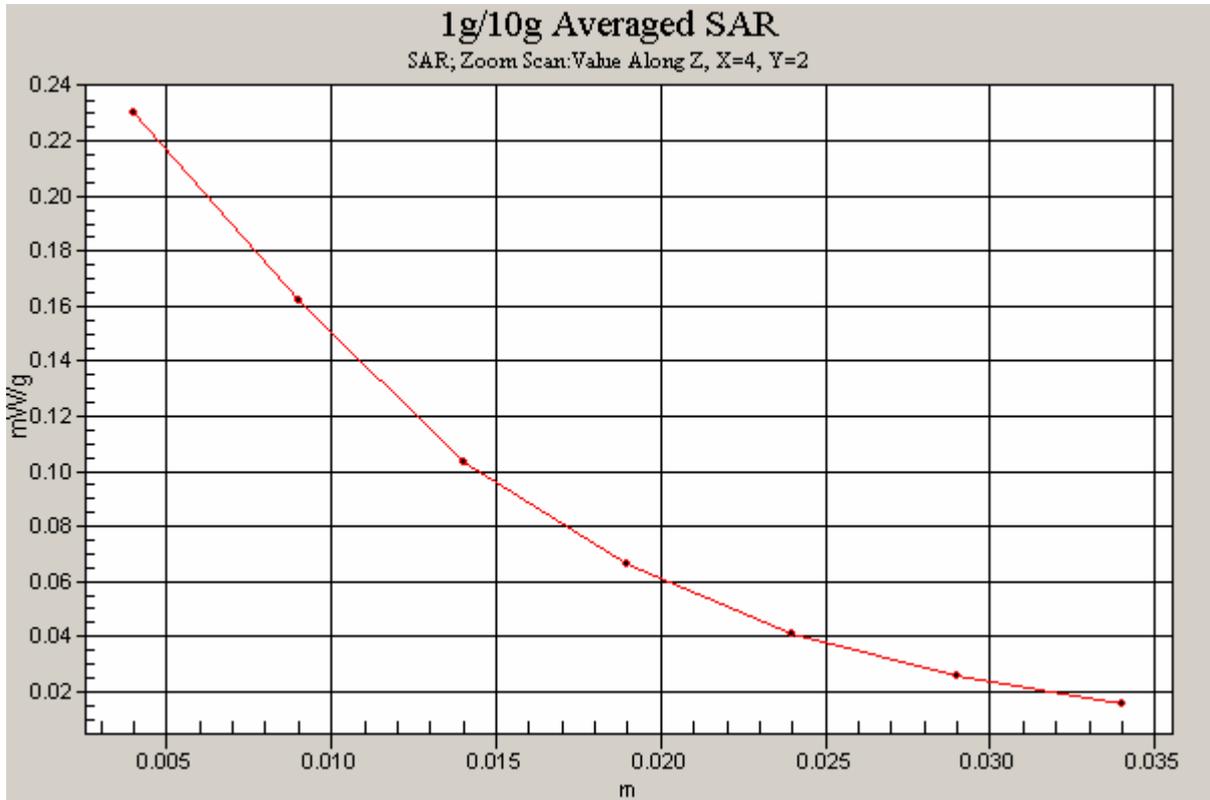


Figure 84 Z-Scan at power reference point (Right Hand Tilt Close GSM 1900 Channel 512)

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; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.519 mW/g

Towards ground, High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.07 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 0.806 W/kg

SAR(1 g) = 0.445 mW/g; SAR(10 g) = 0.239 mW/g

Maximum value of SAR (measured) = 0.487 mW/g

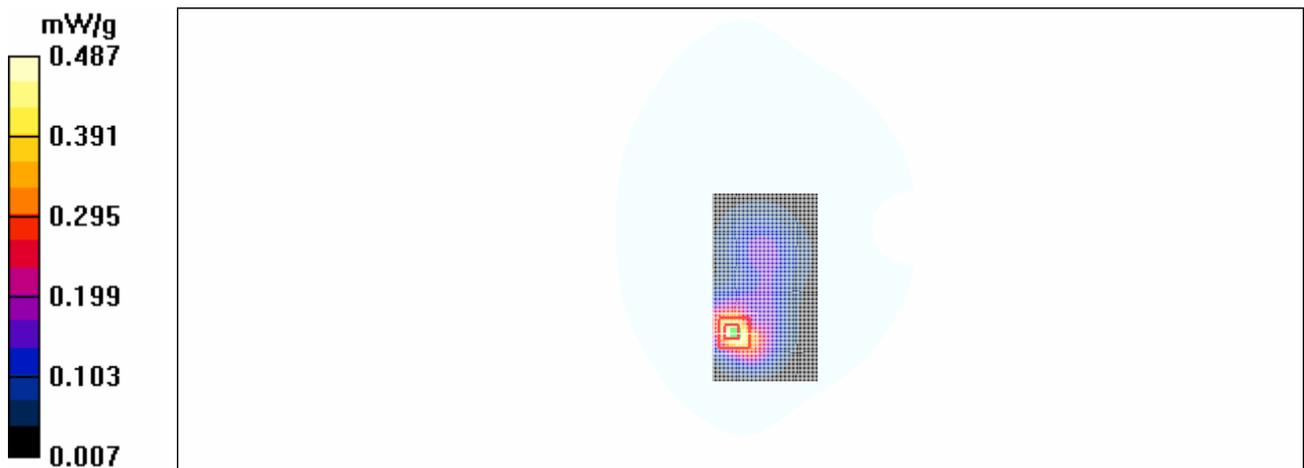


Figure 85 Body, Towards Ground, Close, GSM 1900 Channel 810

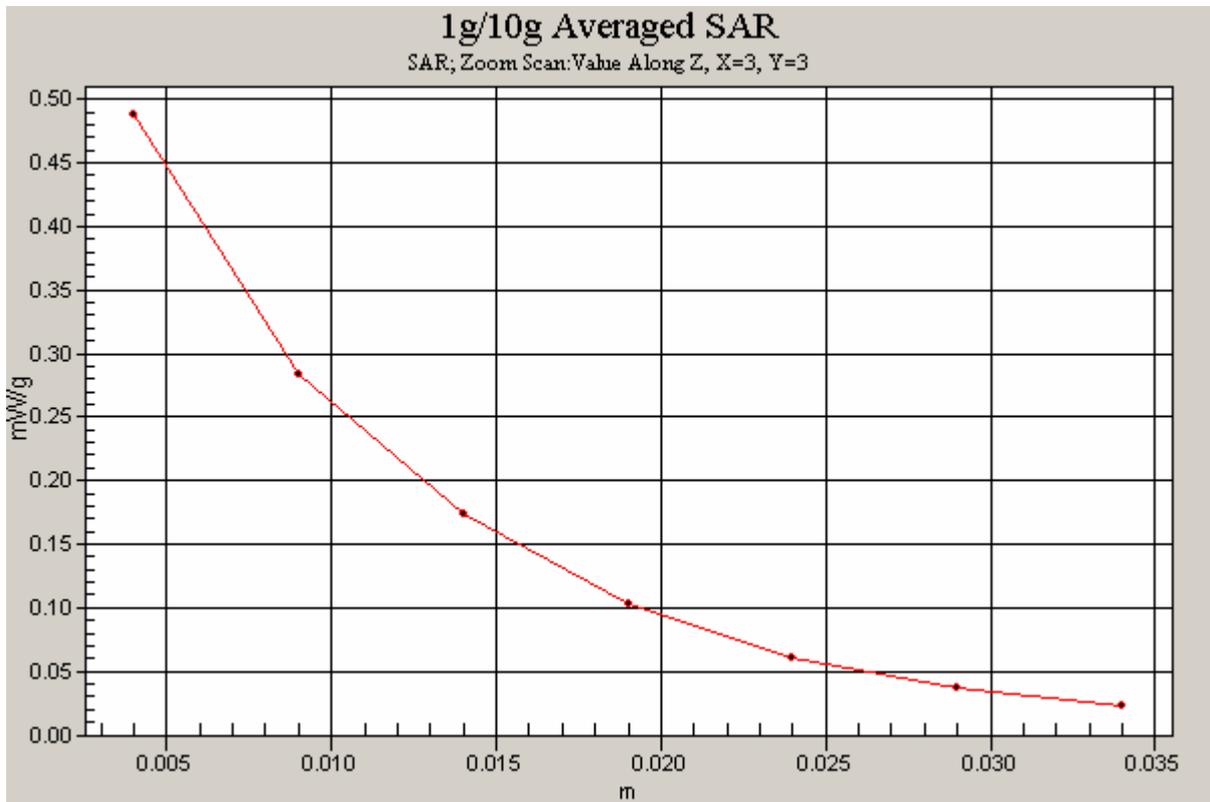


Figure 86 Z-Scan at power reference point (Body, Towards Ground, Close , GSM 1900 Channel 810)

GSM 1900 Towards Ground Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.547 mW/g

Towards ground, Middle /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.91 V/m; Power Drift = 0.190 dB

Peak SAR (extrapolated) = 0.847 W/kg

SAR(1 g) = 0.471 mW/g; SAR(10 g) = 0.254 mW/g

Maximum value of SAR (measured) = 0.522 mW/g

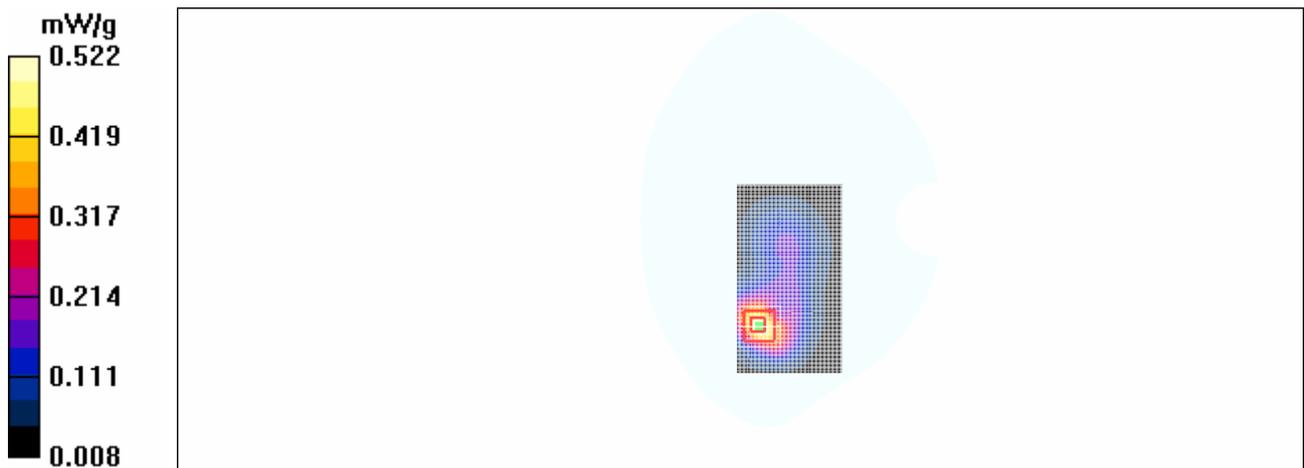


Figure 87 Body, Towards Ground, Close, GSM 1900 Channel 661

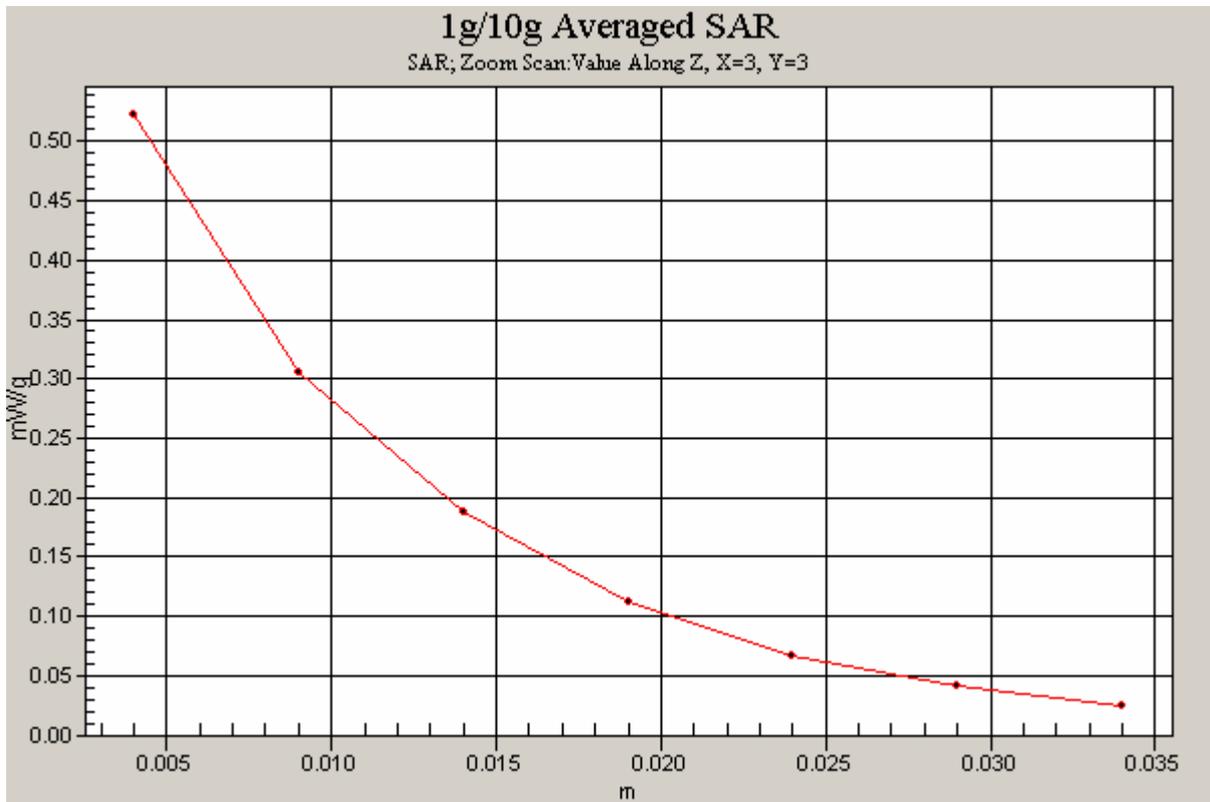


Figure 88 Z-Scan at power reference point (Body, Towards Ground, Close, GSM 1900 Channel 661)

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; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, Low /Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.600 mW/g

Towards ground, Low /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.55 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.943 W/kg

SAR(1 g) = 0.529 mW/g; SAR(10 g) = 0.283 mW/g

Maximum value of SAR (measured) = 0.622 mW/g

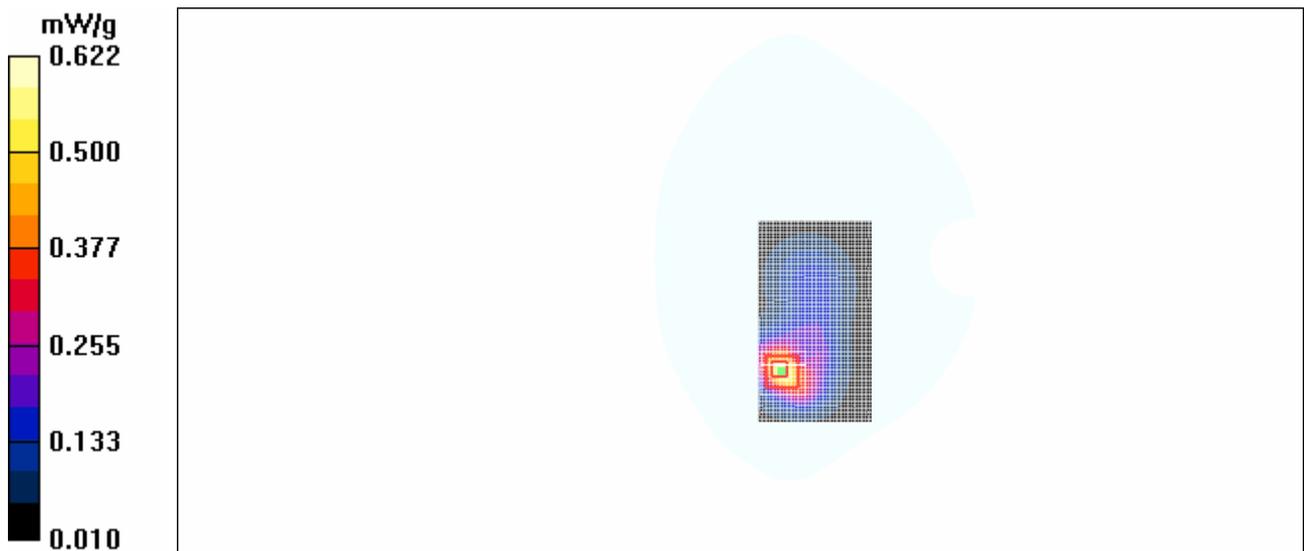


Figure 89 Body, Towards Ground, Close, GSM 1900 Channel 512

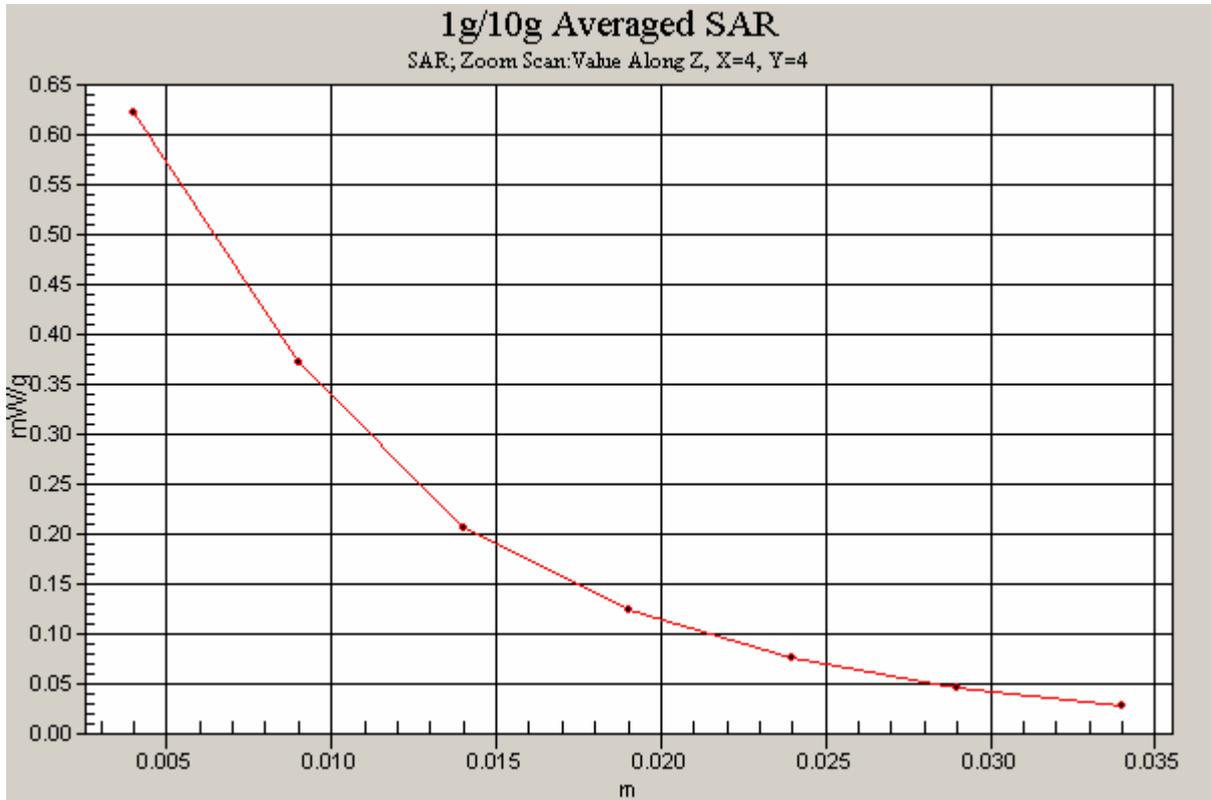


Figure 90 Z-Scan at power reference point (Body, Towards Ground, Close, GSM 1900 Channel 512)

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; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards phantom, High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.079 mW/g

Towards phantom, High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.84 V/m; Power Drift = -0.150 dB

Peak SAR (extrapolated) = 0.109 W/kg

SAR(1 g) = 0.071 mW/g; SAR(10 g) = 0.046 mW/g

Maximum value of SAR (measured) = 0.076 mW/g

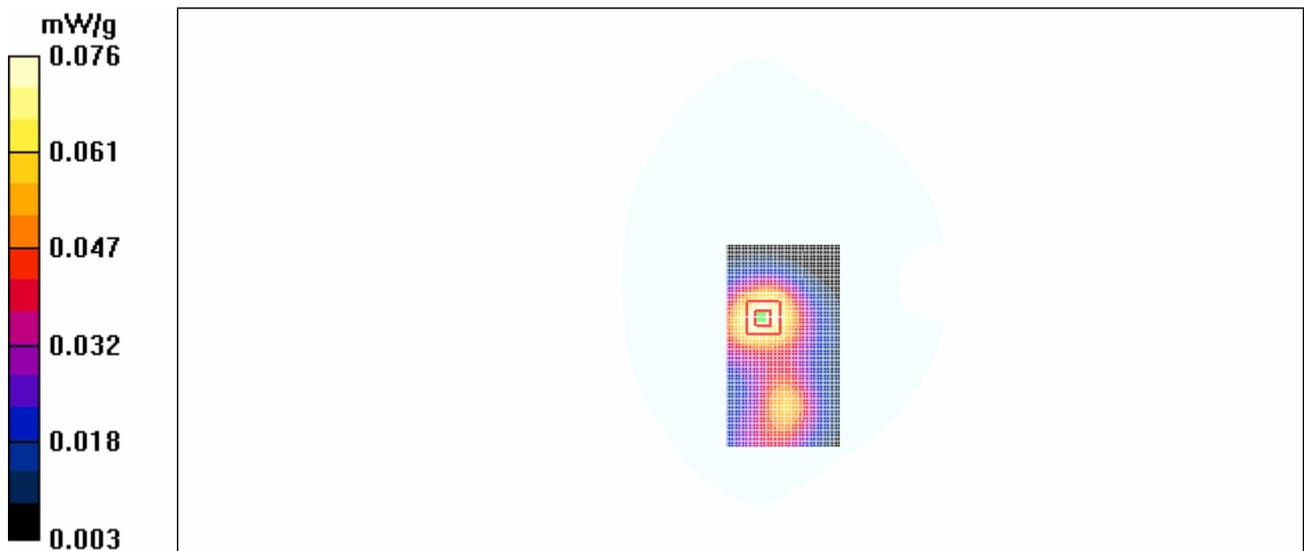


Figure 91 Body, Towards Phantom, Close, GSM 1900 Channel 810

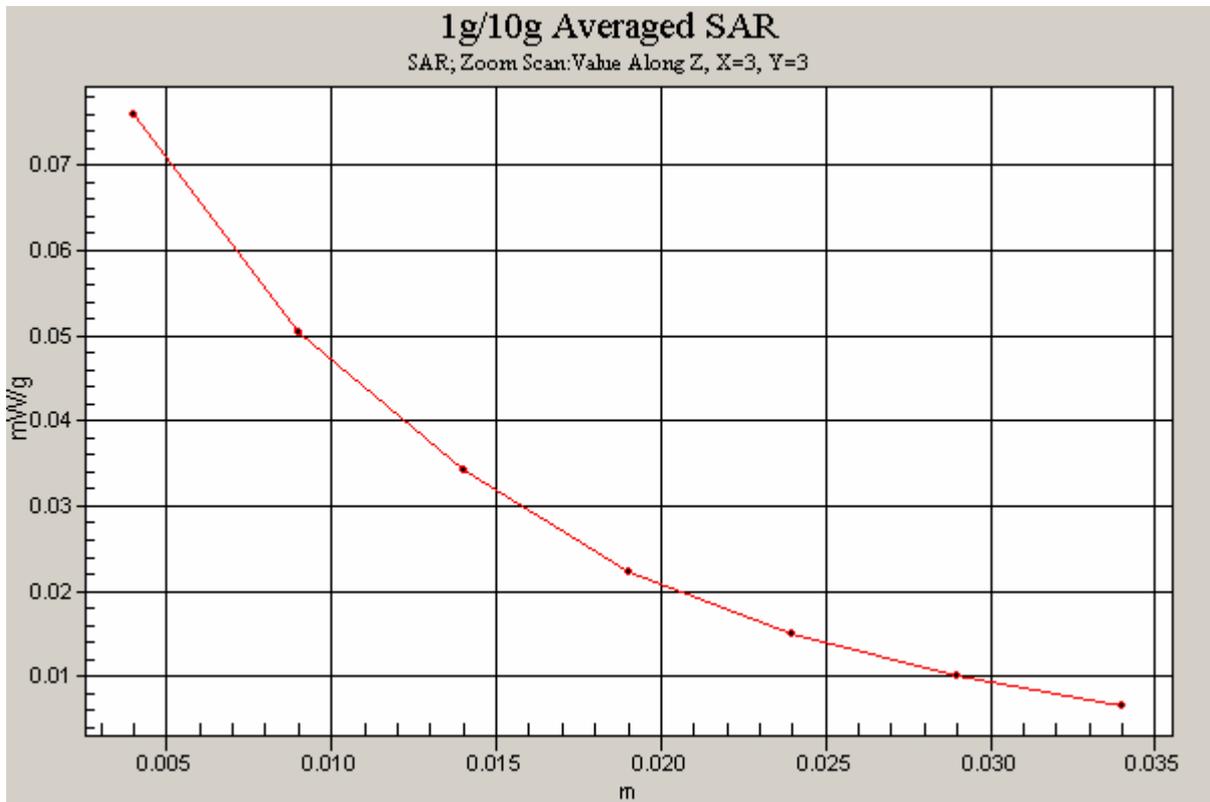


Figure 92 Z-Scan at power reference point (Body, Towards Phantom, Close, GSM 1900 Channel 810)

GSM 1900 Towards Phantom Middle Close

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards phantom, Middle /Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

Towards phantom, Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.81 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.119 W/kg

SAR(1 g) = 0.079 mW/g; SAR(10 g) = 0.052 mW/g

Maximum value of SAR (measured) = 0.084 mW/g

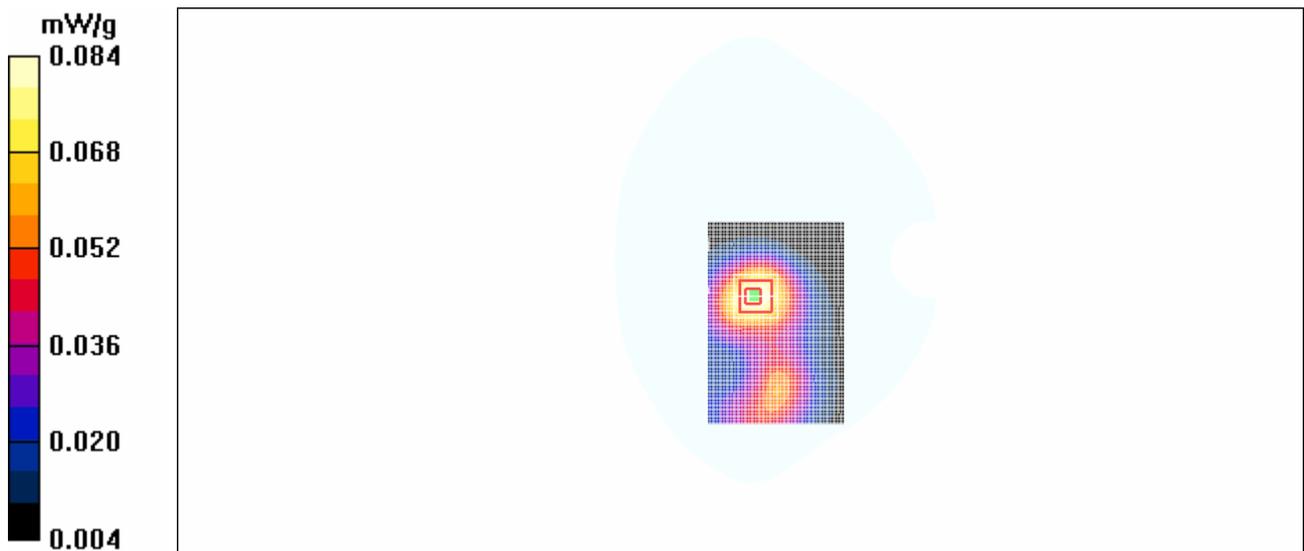


Figure 93 Body, Towards Phantom, Close, GSM 1900 Channel 661

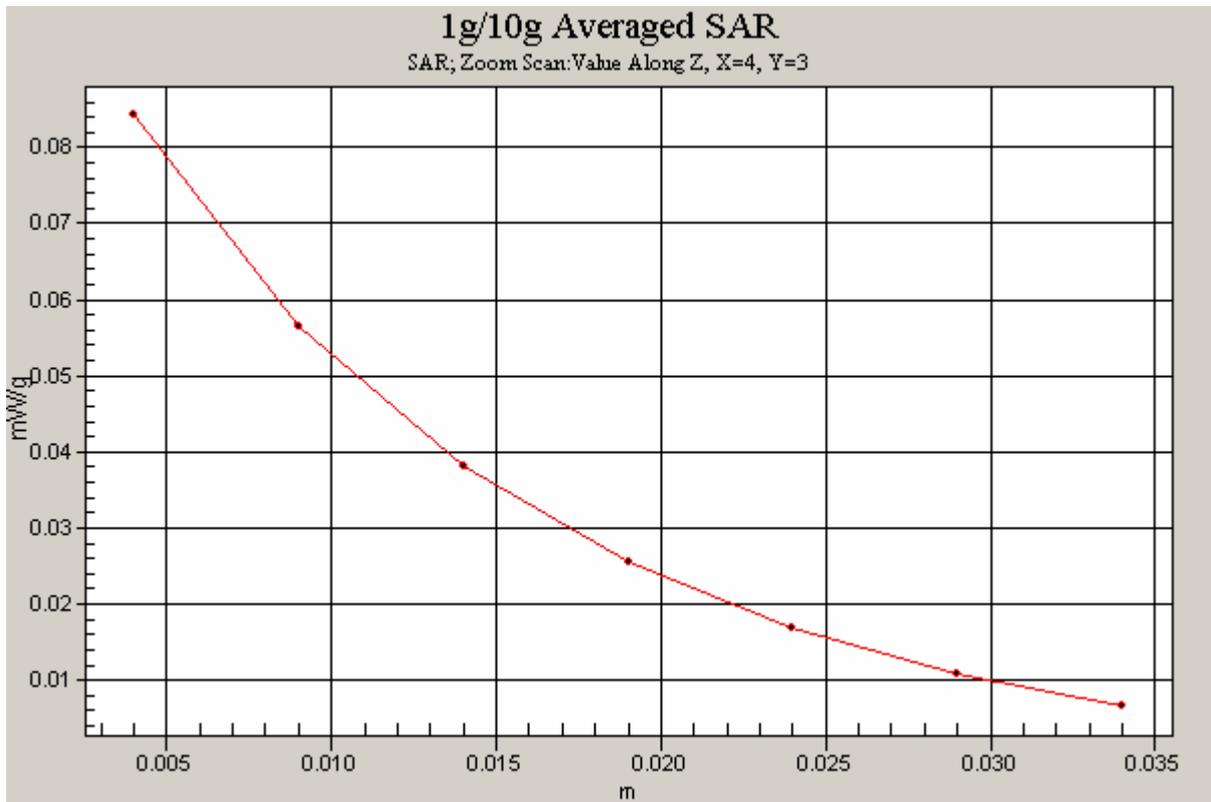


Figure 94 Z-Scan at power reference point (Body, Towards Phantom, Close, GSM 1900 Channel 661)

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; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards phantom, Low /Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.104 mW/g

Towards phantom, Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.97 V/m; Power Drift = 0.048 dB

Peak SAR (extrapolated) = 0.138 W/kg

SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.062 mW/g

Maximum value of SAR (measured) = 0.100 mW/g

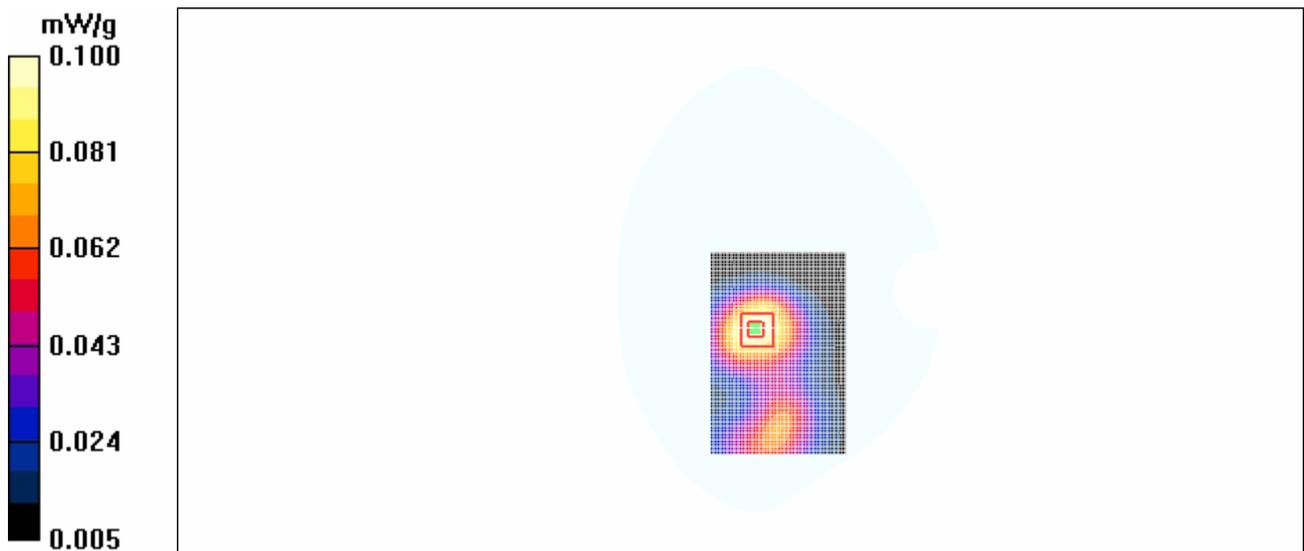


Figure 95 Body, Towards Phantom, Close, GSM 1900 Channel 512

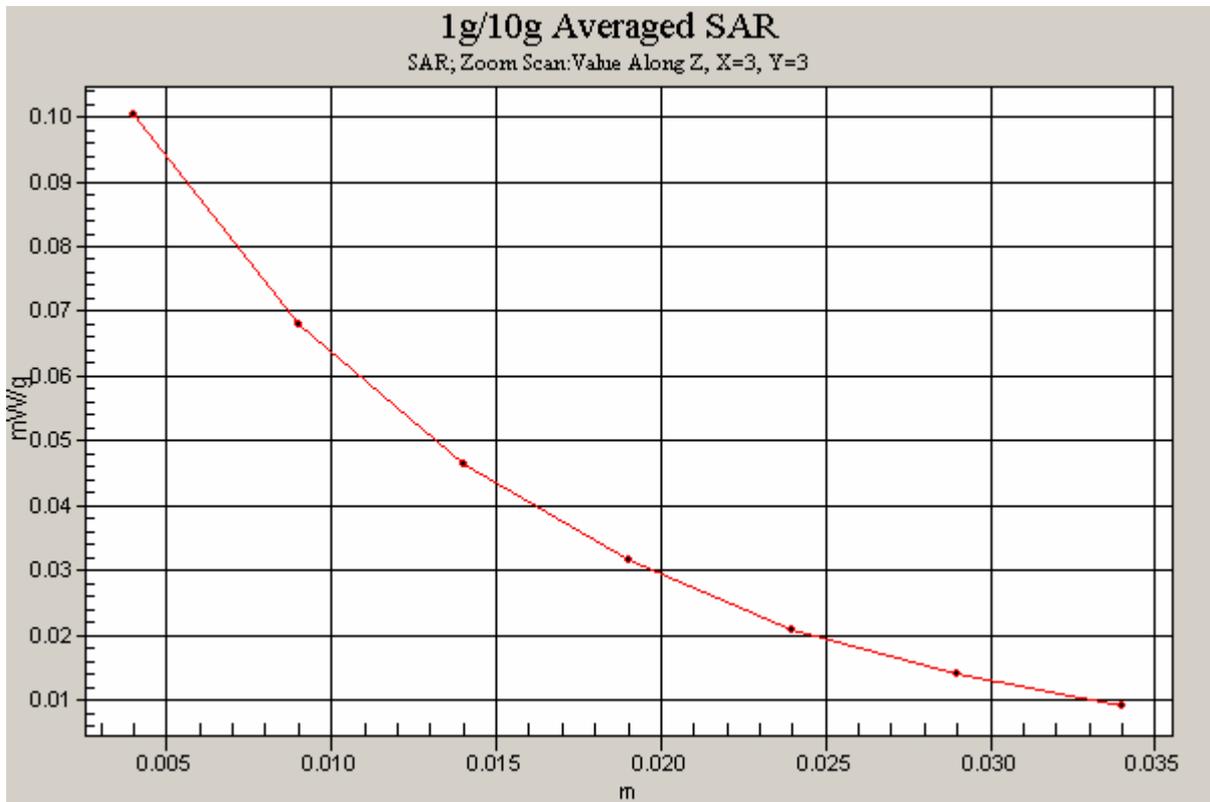


Figure 96 Z-Scan at power reference point (Body, Towards Phantom, Close, GSM 1900 Channel 512)

GSM 1900 Towards Ground earphone Low Close

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.564 mW/g

Towards ground, Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.69 V/m; Power Drift = 0.100 dB

Peak SAR (extrapolated) = 0.843 W/kg

SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.264 mW/g

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

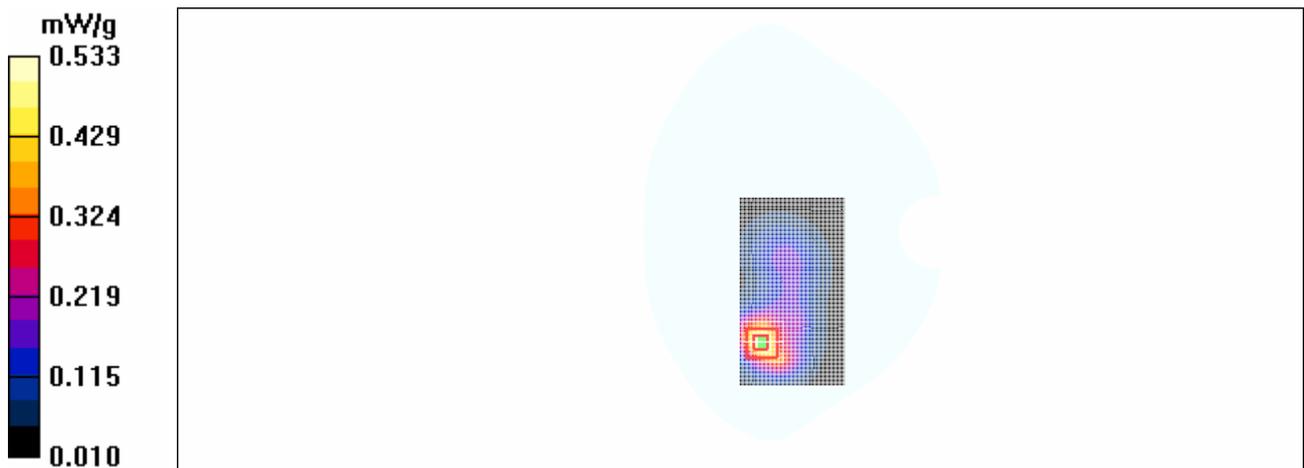


Figure 97 Body with earphone, Towards Ground, Close, GSM 1900, Channel 512

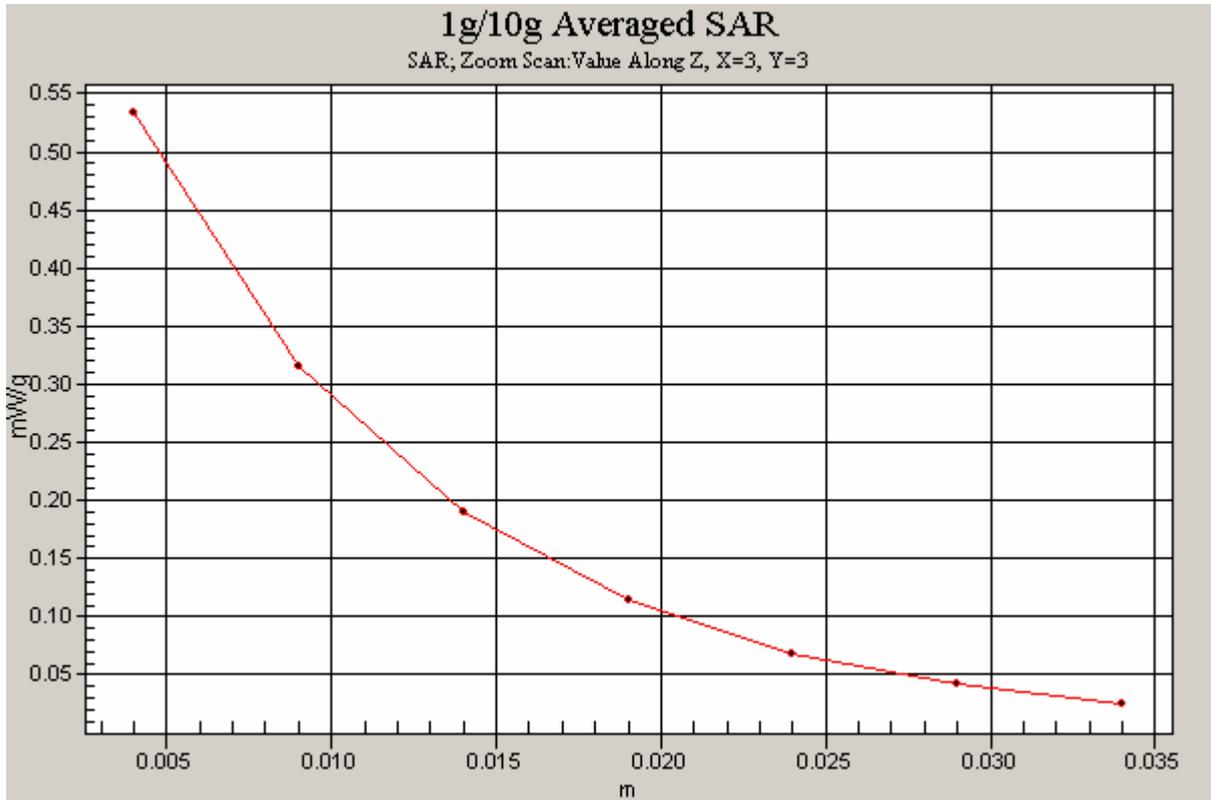


Figure 98 Z-Scan at power reference point (Body with earphone, Towards Ground, Close, GSM 1900, Channel 512)

GSM 1900 Towards Ground Bluetooth earphone Low Close

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.522 mW/g

Towards ground, Low /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.79 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.796 W/kg

SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.250 mW/g

Maximum value of SAR (measured) = 0.506 mW/g

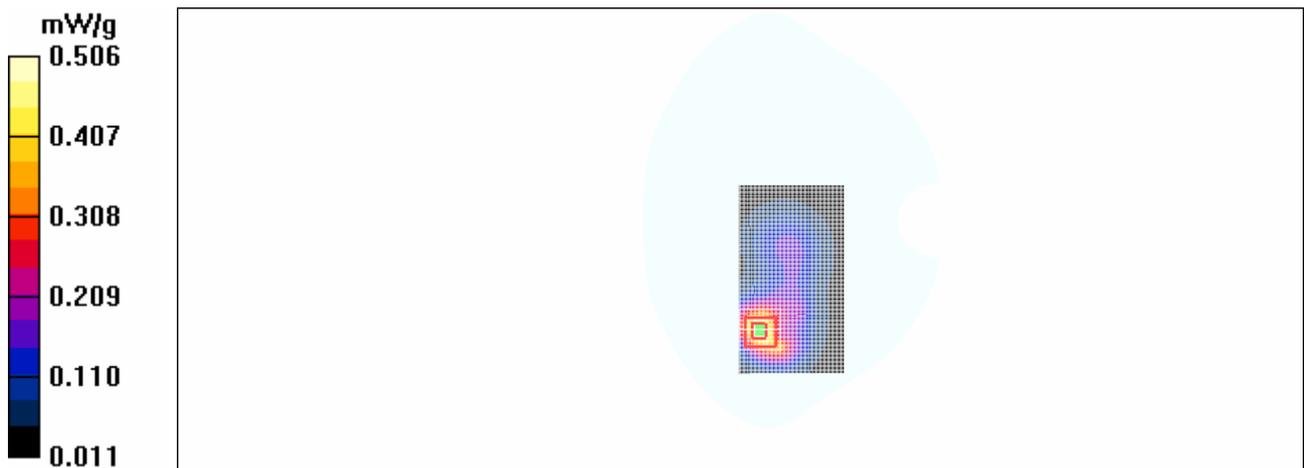


Figure 99 Body with Bluetooth earphone, Towards Ground, Close, GSM 1900, Channel 512

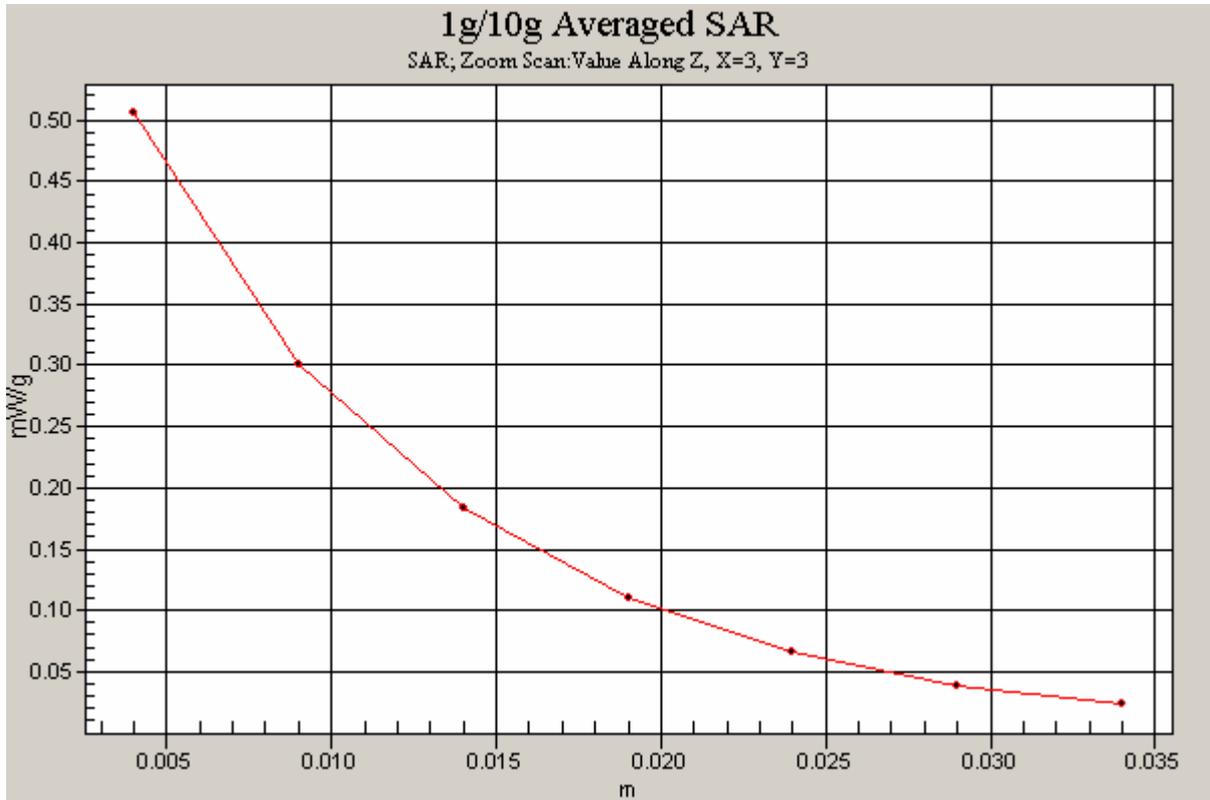


Figure 100 Z-Scan at power reference point (Body with Bluetooth earphone, Towards Ground, Close, GSM 1900, Channel 512)

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; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.793 mW/g

Towards ground, High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.2 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.711 mW/g; SAR(10 g) = 0.388 mW/g

Maximum value of SAR (measured) = 0.773 mW/g

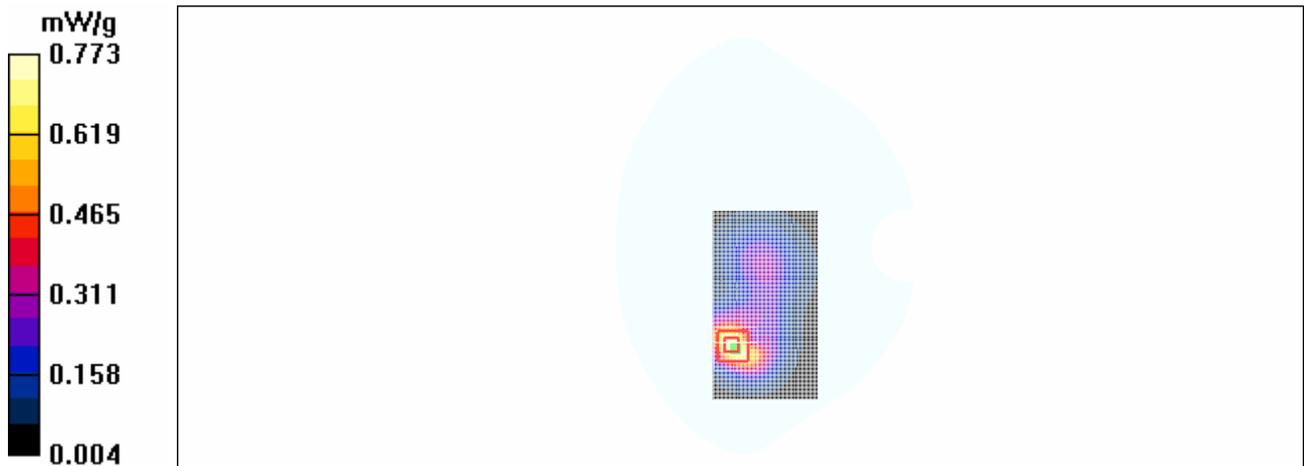


Figure 101 Body, Towards Ground, Close, GSM1900 GPRS, Channel 810

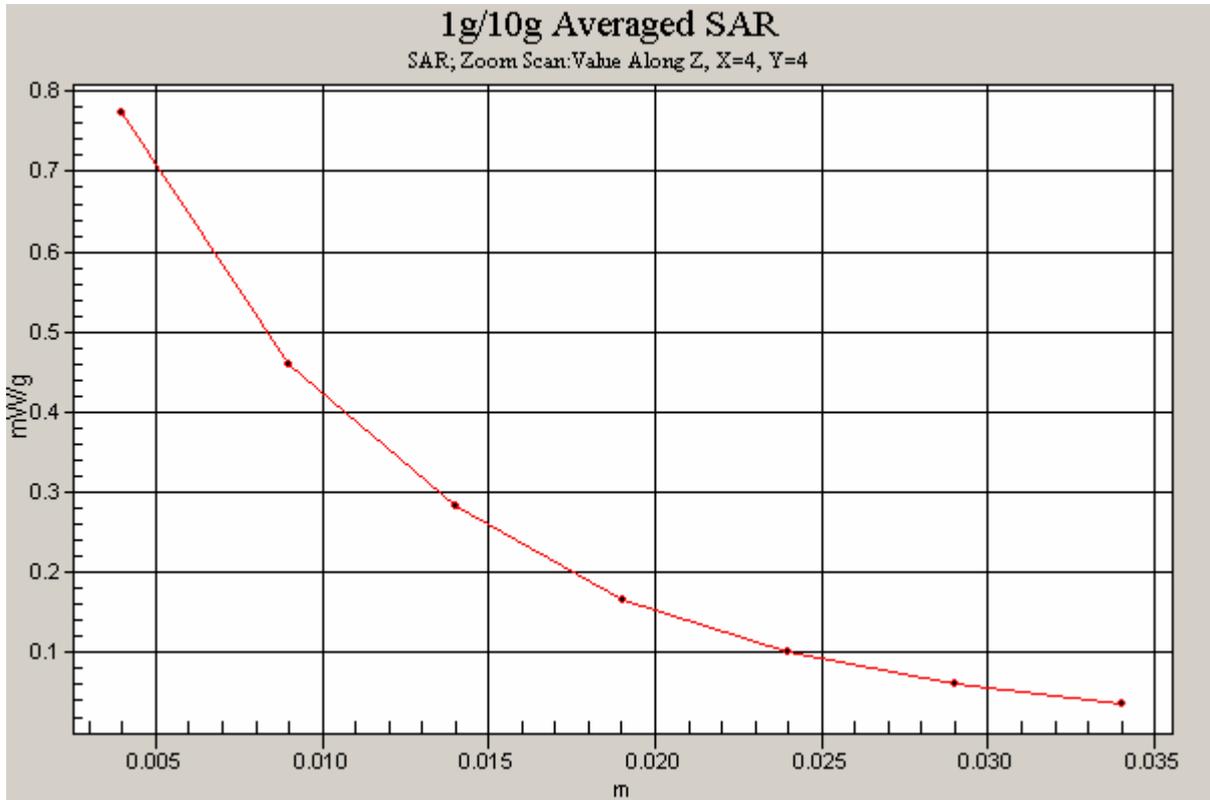


Figure 102 Z-Scan at power reference point (Body, Towards Ground, Close, GSM 1900 GPRS, Channel 810)

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; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.911 mW/g

Towards ground, Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.8 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.786 mW/g; SAR(10 g) = 0.431 mW/g

Maximum value of SAR (measured) = 0.866 mW/g

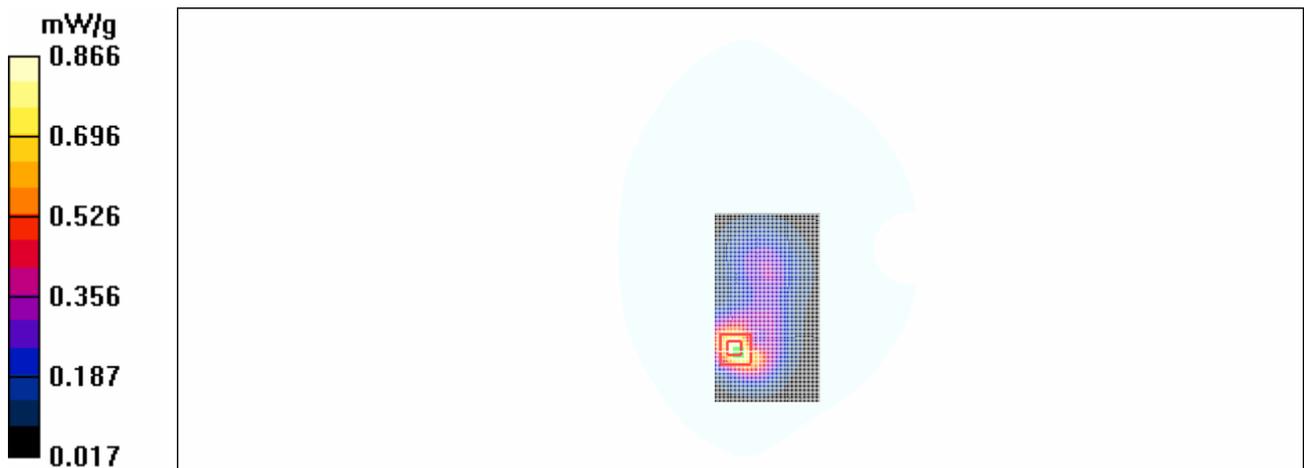


Figure 103 Body, Towards Ground, Close, GSM1900 GPRS, Channel 661

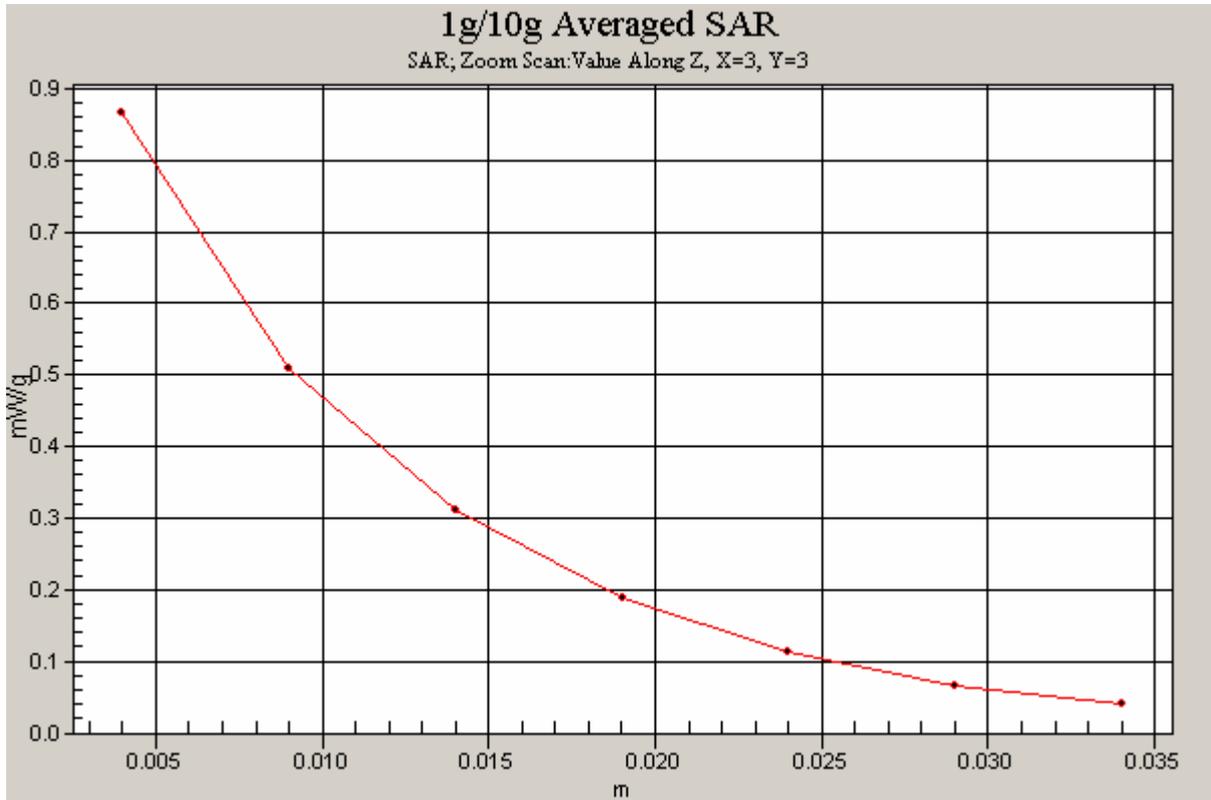


Figure 104 Z-Scan at power reference point (Body, Towards Ground, Close, GSM 1900 GPRS, Channel 661)

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; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards ground, Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.921 mW/g

Towards ground, Low /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.9 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.827 mW/g; SAR(10 g) = 0.454 mW/g

Maximum value of SAR (measured) = 0.905 mW/g

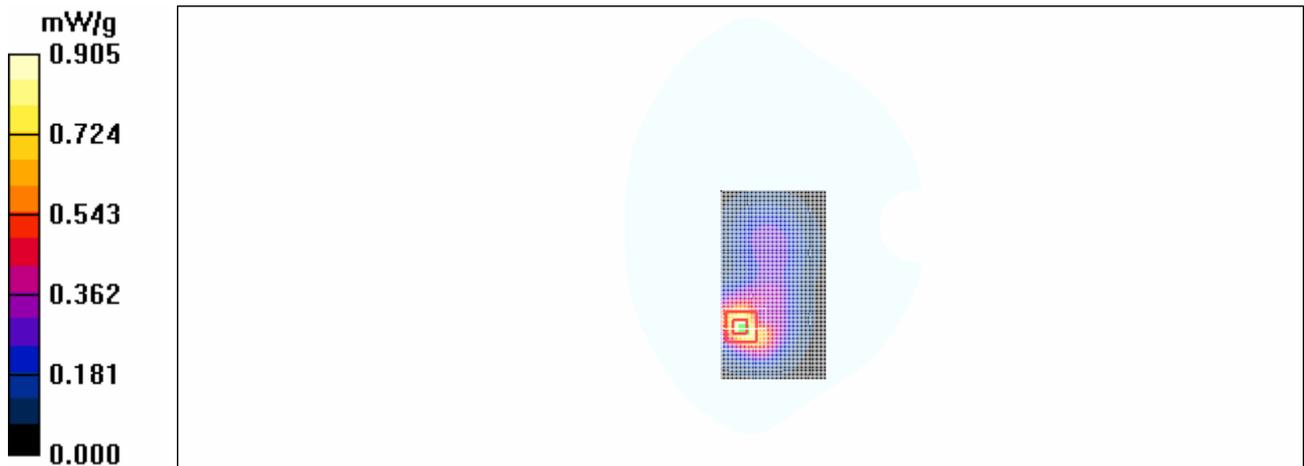


Figure 105 Body, Towards Ground, Close, GSM1900 GPRS, Channel 512

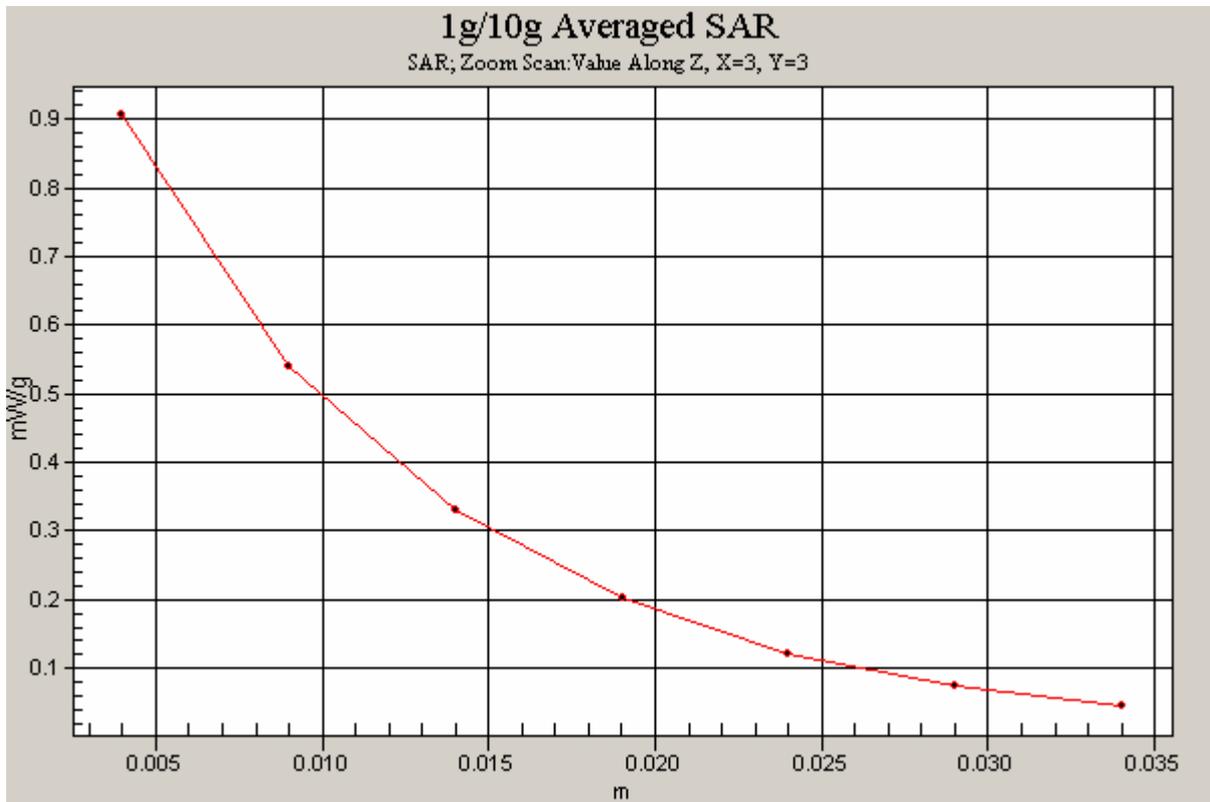


Figure 106 Z-Scan at power reference point (Body, Towards Ground, Close, GSM 1900 GPRS, Channel 512)

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; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards phantom, High /Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.183 mW/g

Towards phantom, High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.61 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 0.265 W/kg

SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.109 mW/g

Maximum value of SAR (measured) = 0.182 mW/g

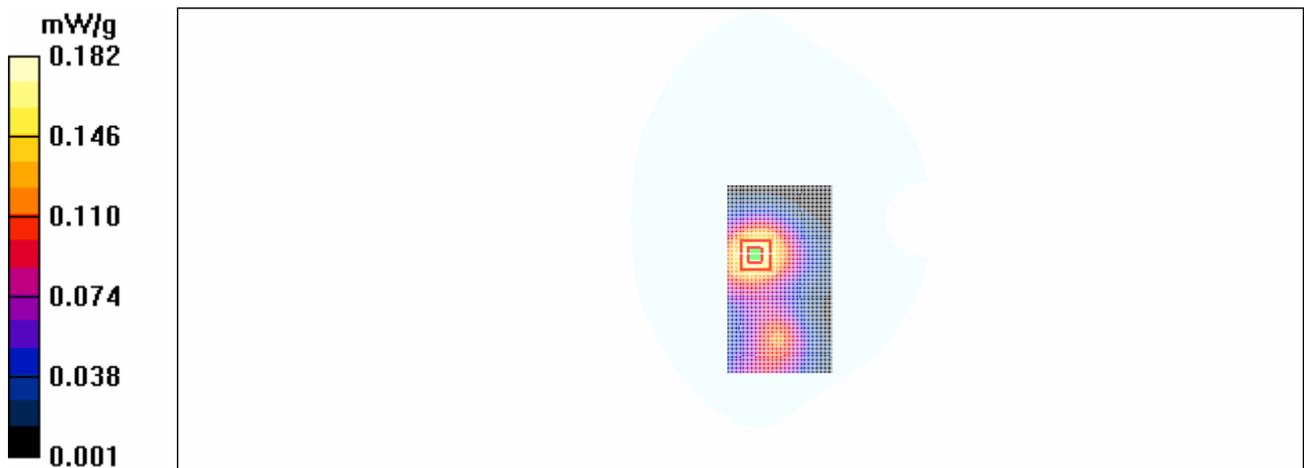


Figure 107 Body, Towards Phantom, Close, GSM1900 GPRS, Channel 810

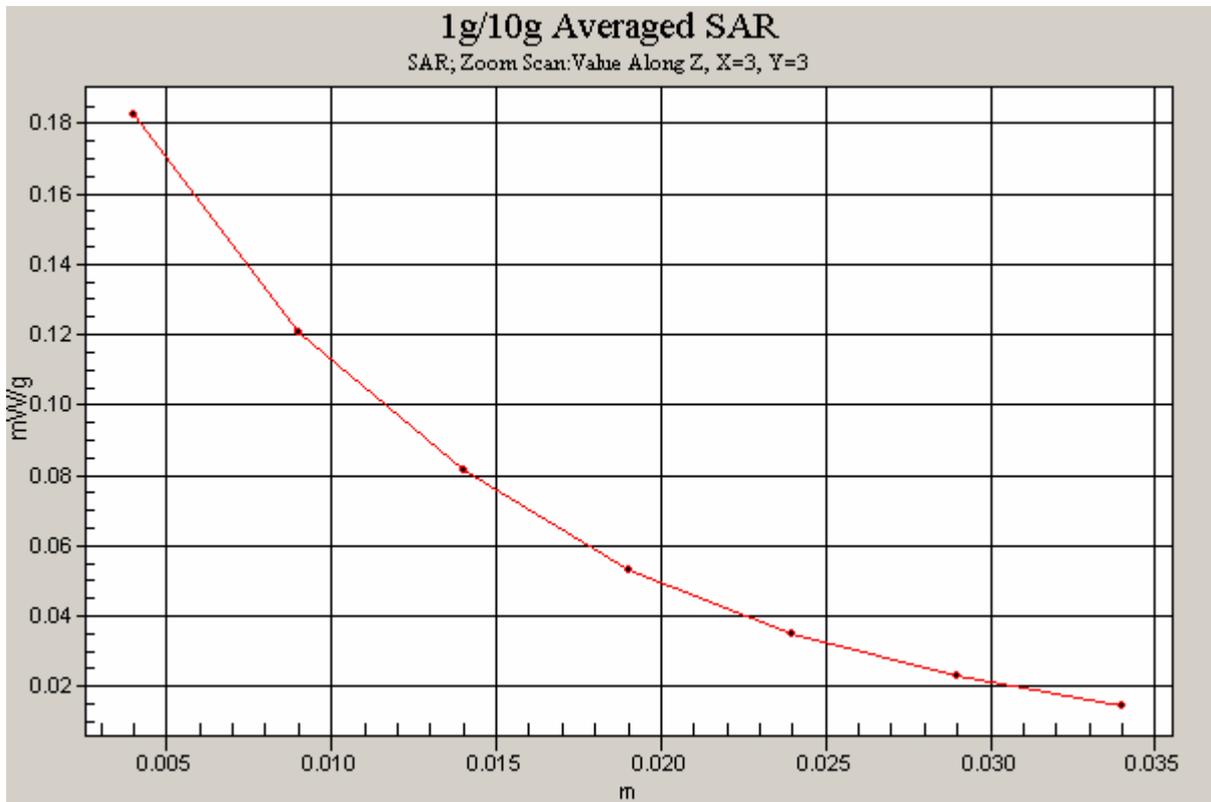


Figure 108 Z-Scan at power reference point (Body, Towards Phantom, Close, GSM 1900 GPRS, Channel 810)

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; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE3 Sn452;

Towards phantom, Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.193 mW/g

Towards phantom, Middle /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.10 V/m; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 0.262 W/kg

SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.113 mW/g

Maximum value of SAR (measured) = 0.187 mW/g

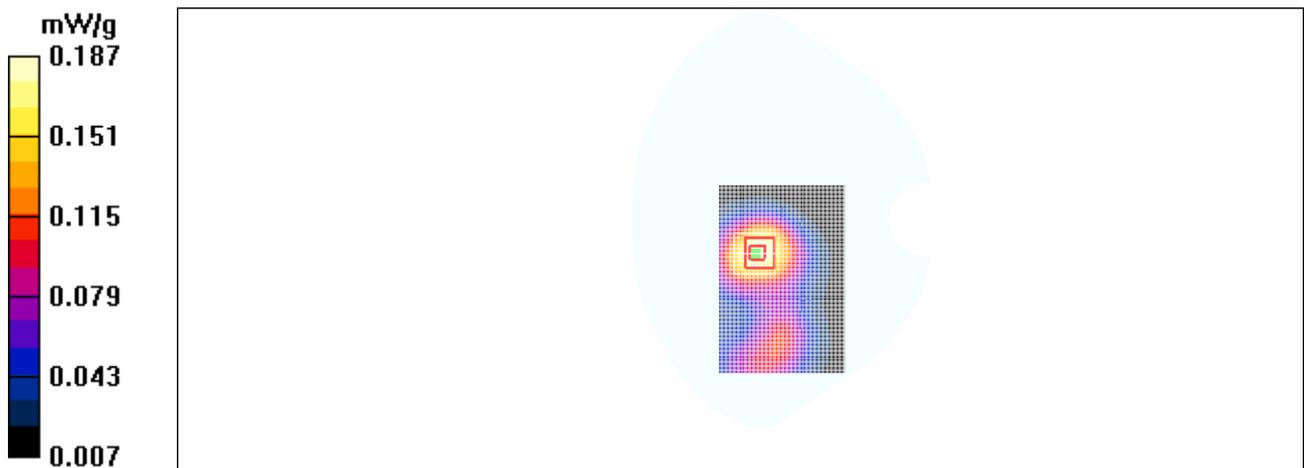


Figure 109 Body, Towards Phantom, Close, GSM1900 GPRS, Channel 661

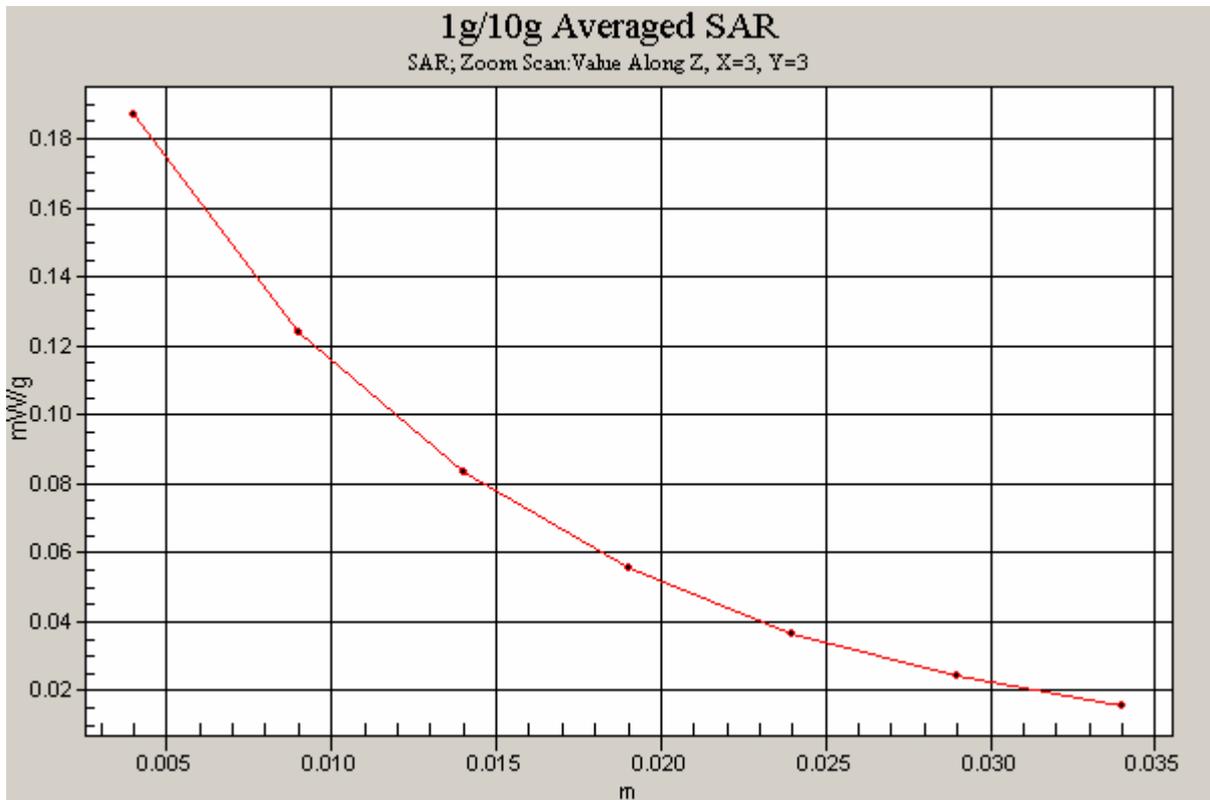


Figure 110 Z-Scan at power reference point (Body, Towards Phantom, Close, GSM 1900 GPRS, Channel 661)

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; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE3 Sn452;

Towards phantom, Low /Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.238 mW/g

Towards phantom, Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.33 V/m; Power Drift = 0.053 dB
Peak SAR (extrapolated) = 0.317 W/kg
SAR(1 g) = 0.213 mW/g; SAR(10 g) = 0.140 mW/g
Maximum value of SAR (measured) = 0.227 mW/g

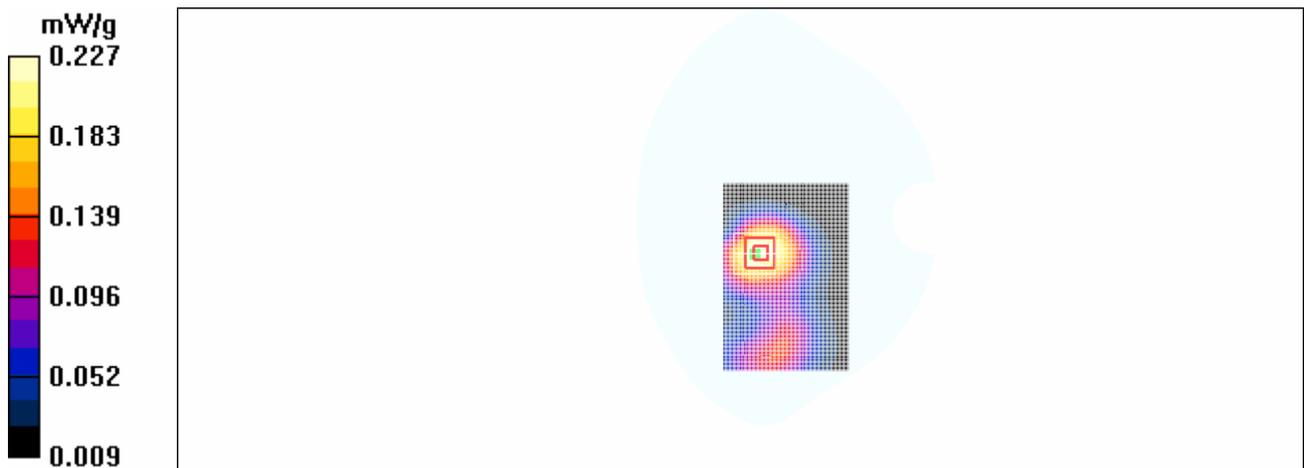


Figure 111 Body, Towards Phantom, Close, GSM1900 GPRS, Channel 512

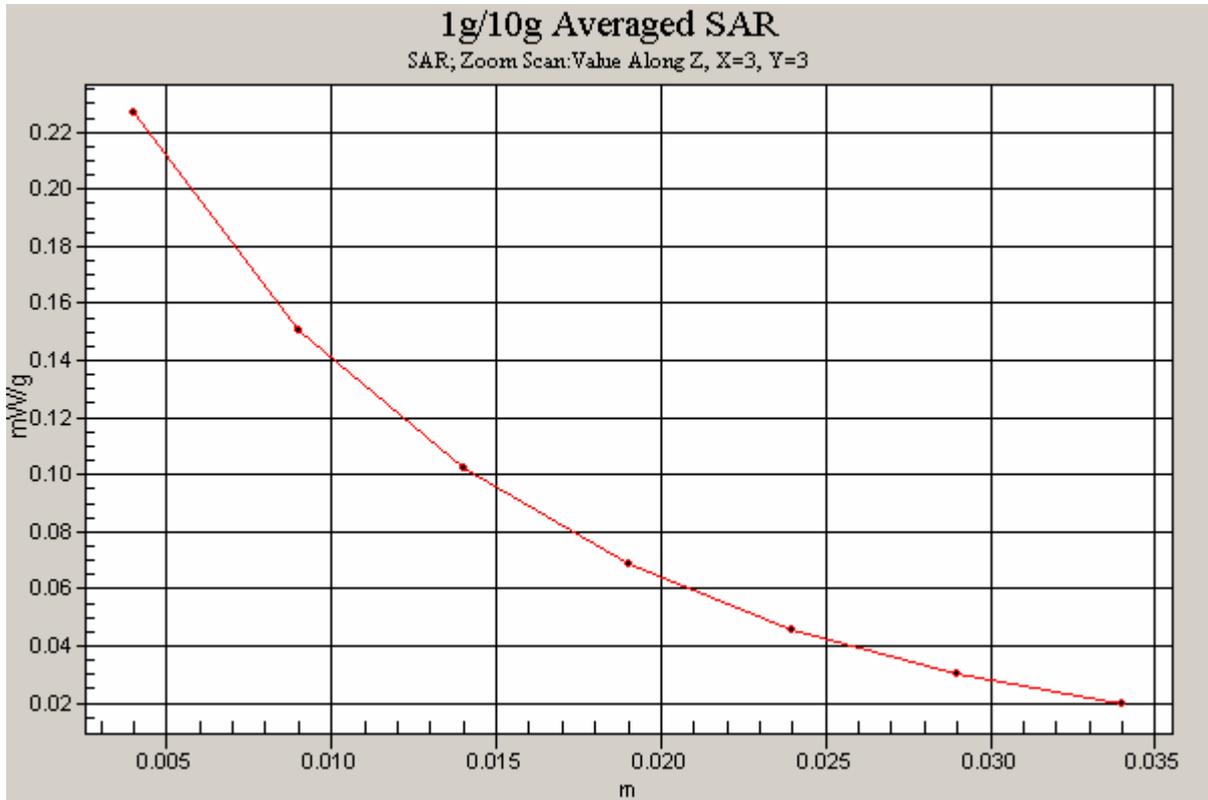


Figure 112 Z-Scan at power reference point (Body, Towards Phantom, Close, GSM 1900 GPRS, Channel 512)

GSM 1900 EGPRS Towards Ground Low Close

Communication System: GSM 1900+EGPRS(2Up); Frequency: 1850.2 MHz; Duty Cycle: 1:4
Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);
Electronics: DAE3 Sn452;

Towards ground, Low /Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.433 mW/g

Towards ground, Low /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.75 V/m; Power Drift = -0.123 dB
Peak SAR (extrapolated) = 0.662 W/kg
SAR(1 g) = 0.379 mW/g; SAR(10 g) = 0.208 mW/g
Maximum value of SAR (measured) = 0.418 mW/g

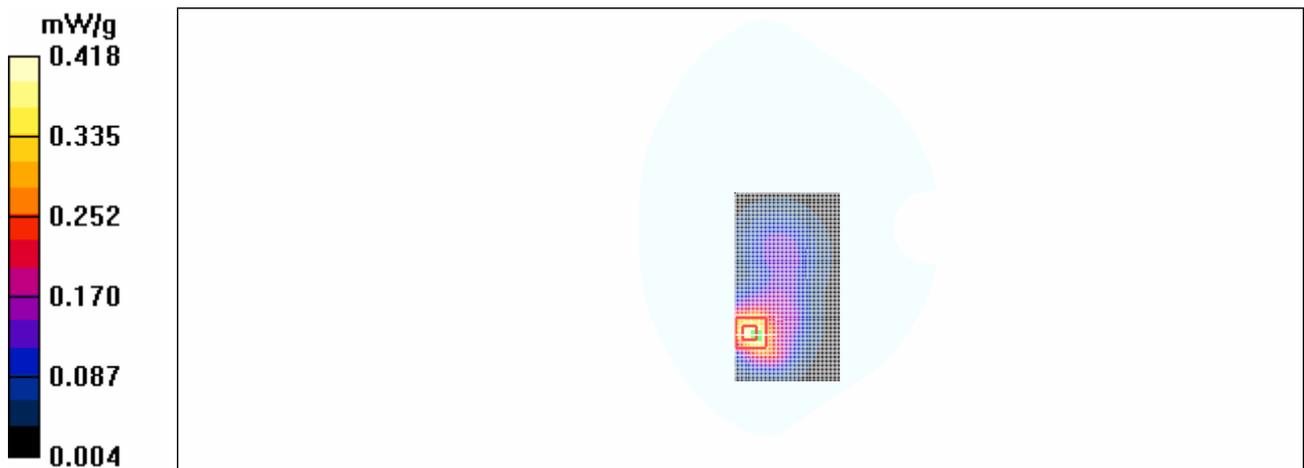


Figure 113 Body, Towards Ground, Close, GSM1900 EGPRS, Channel 512

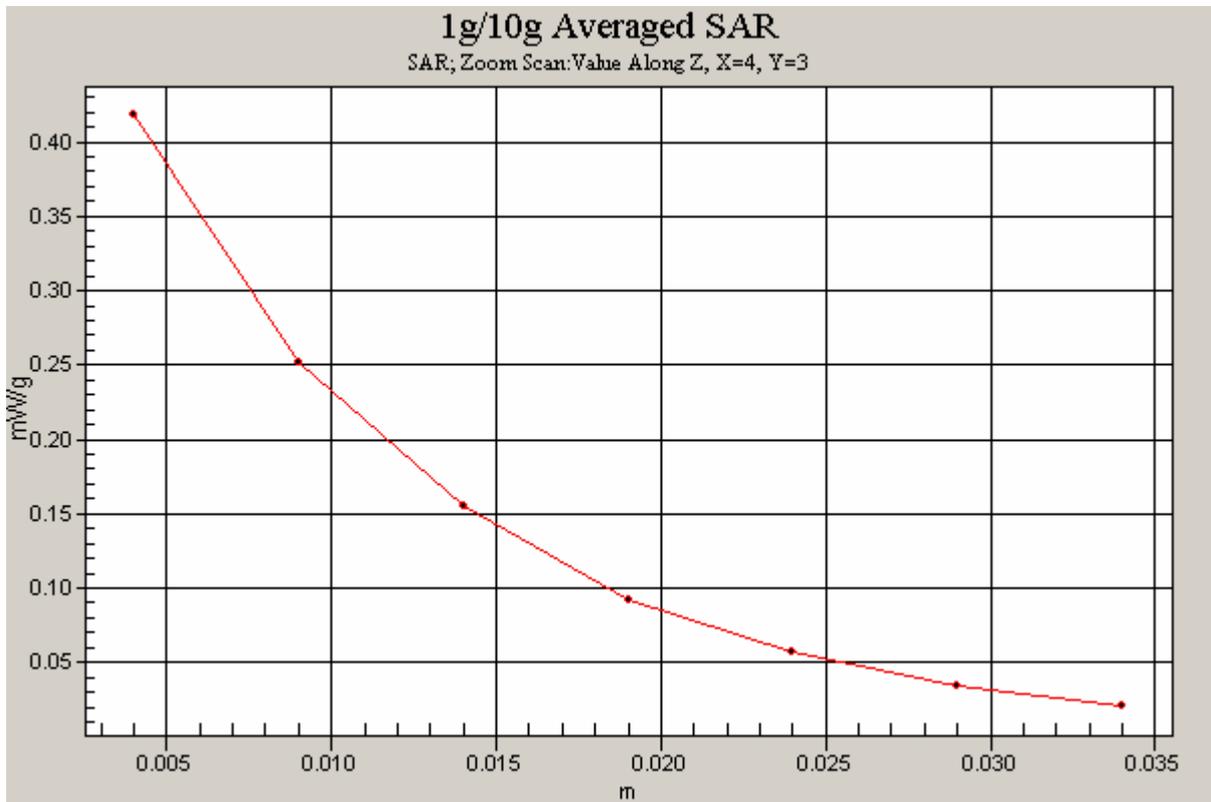


Figure 114 Z-Scan at power reference point (Body, Towards Ground, Close, GSM 1900 EGPRS, Channel 512)

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; $\sigma = 0.931$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE3 Sn452;

Cheek High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.219 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.83 V/m; Power Drift = 0.105 dB
Peak SAR (extrapolated) = 0.271 W/kg
SAR(1 g) = 0.208 mW/g; SAR(10 g) = 0.149 mW/g
Maximum value of SAR (measured) = 0.220 mW/g

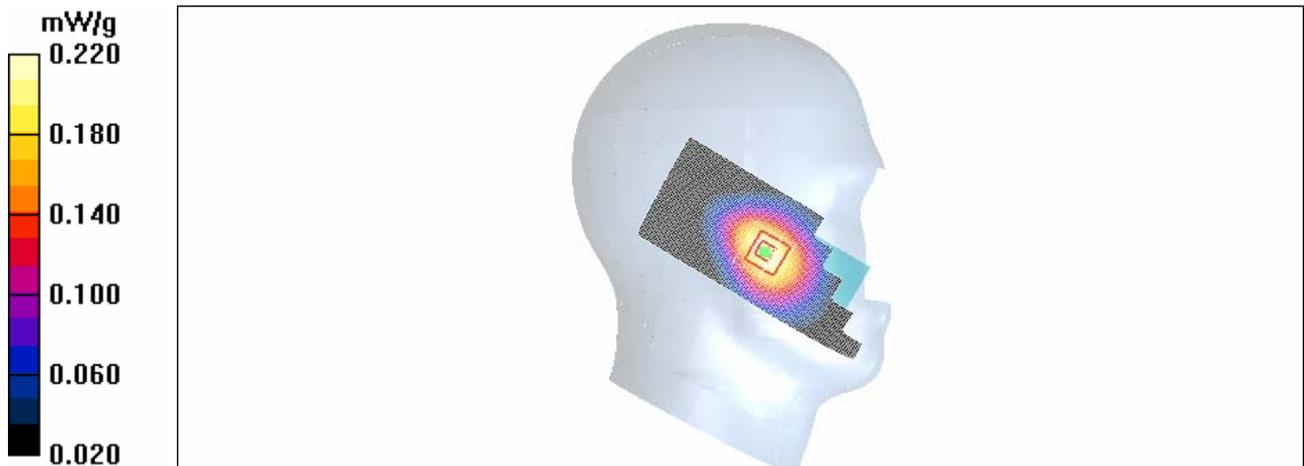


Figure 115 Left Hand Touch Cheek Open WCDMA Band V Channel 4233

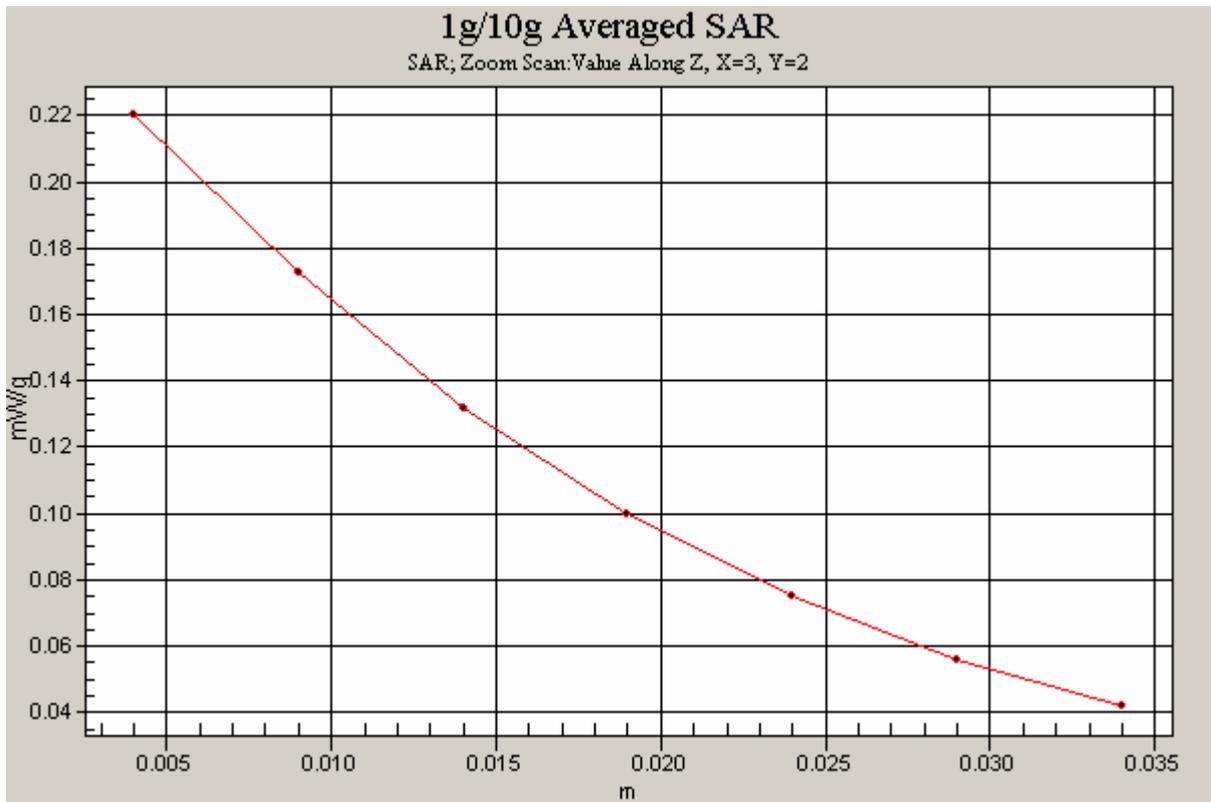


Figure 116 Z-Scan at power reference point (Left Hand Touch Open Cheek WCDMA Band V Channel 4233)

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; $\sigma = 0.919$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Cheek Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.236 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.11 V/m; Power Drift = -0.138 dB

Peak SAR (extrapolated) = 0.276 W/kg

SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.155 mW/g

Maximum value of SAR (measured) = 0.229 mW/g

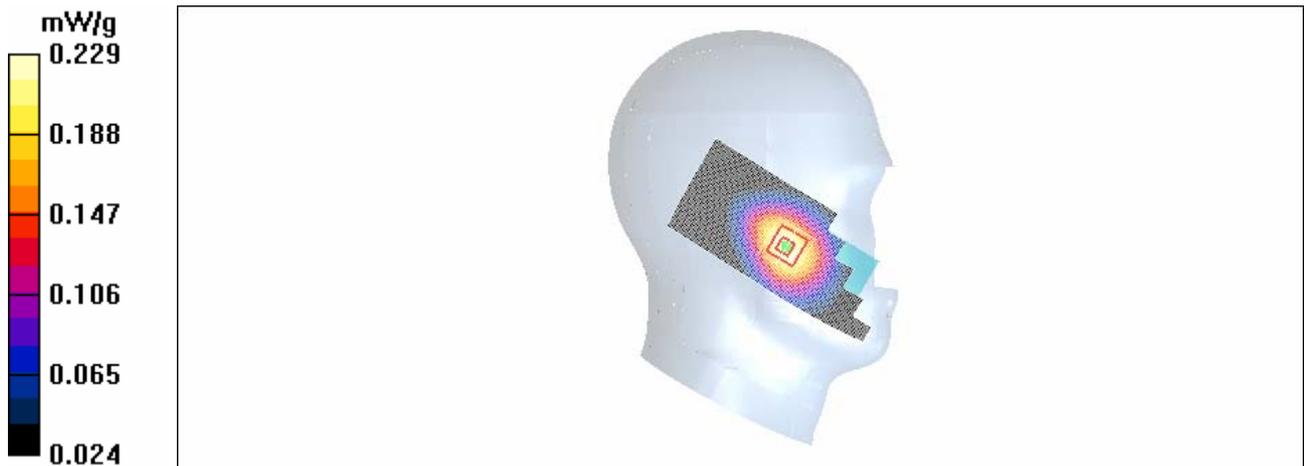


Figure 117 Left Hand Touch Cheek Open WCDMA Band V Channel 4182

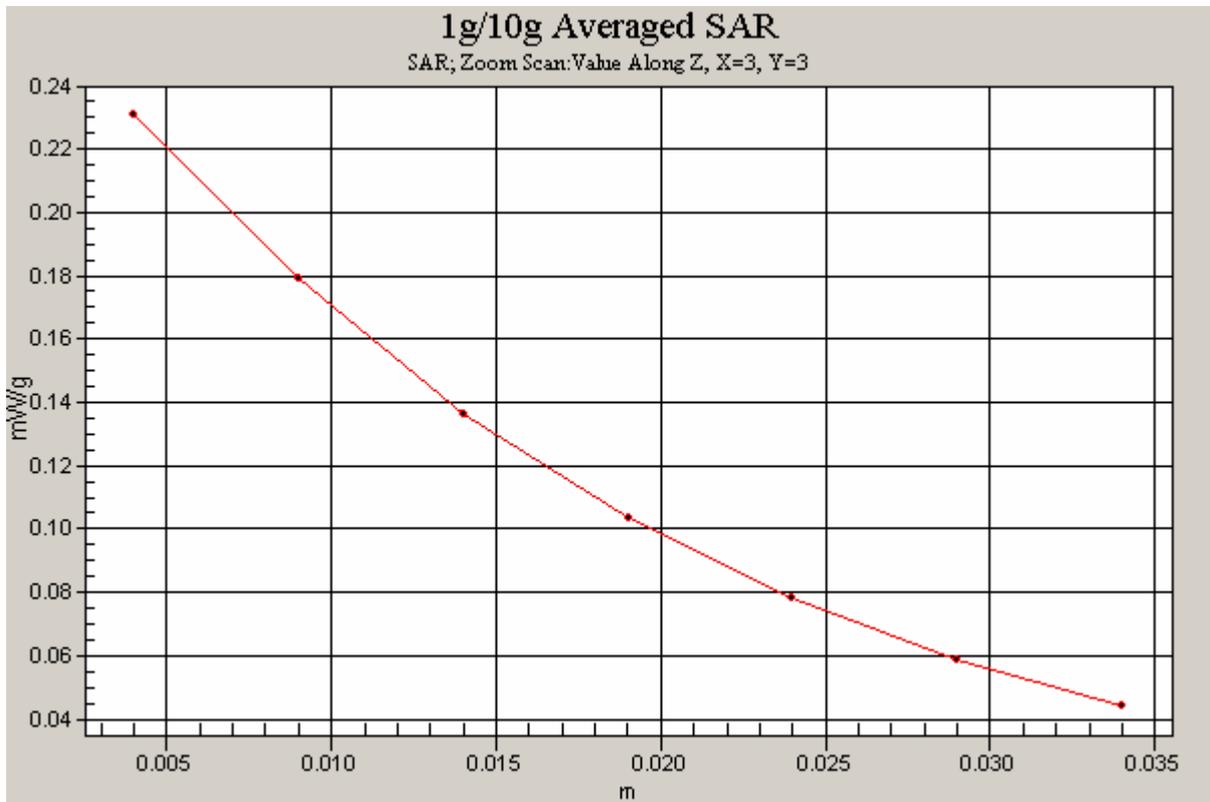


Figure 118 Z-Scan at power reference point (Left Hand Touch Cheek Open WCDMA Band V Channel 4182)

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; $\sigma = 0.906$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Cheek Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

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

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.12 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.175 W/kg

SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.097 mW/g

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

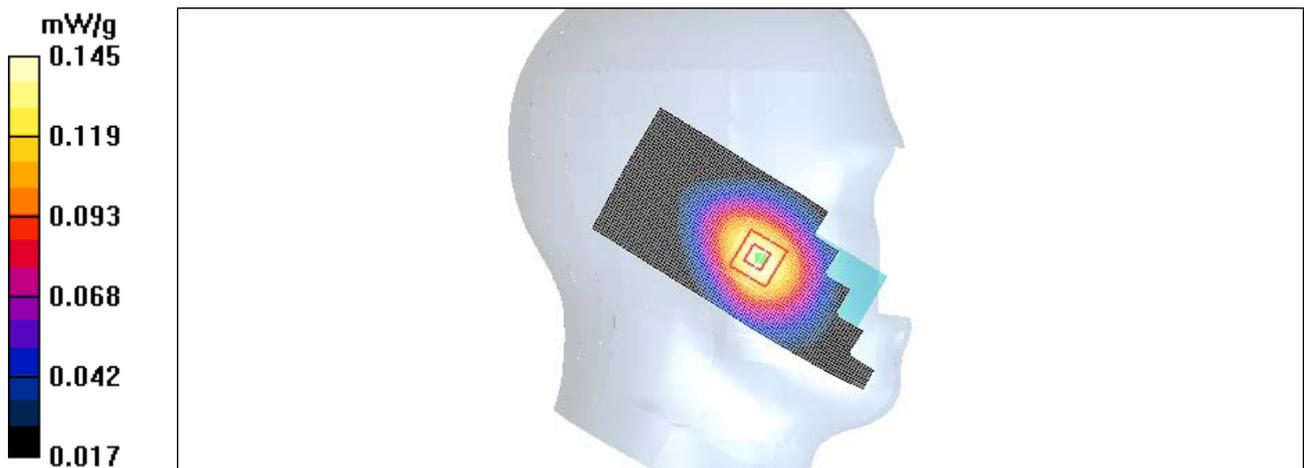


Figure 119 Left Hand Touch Cheek Open WCDMA Band V Channel 4132

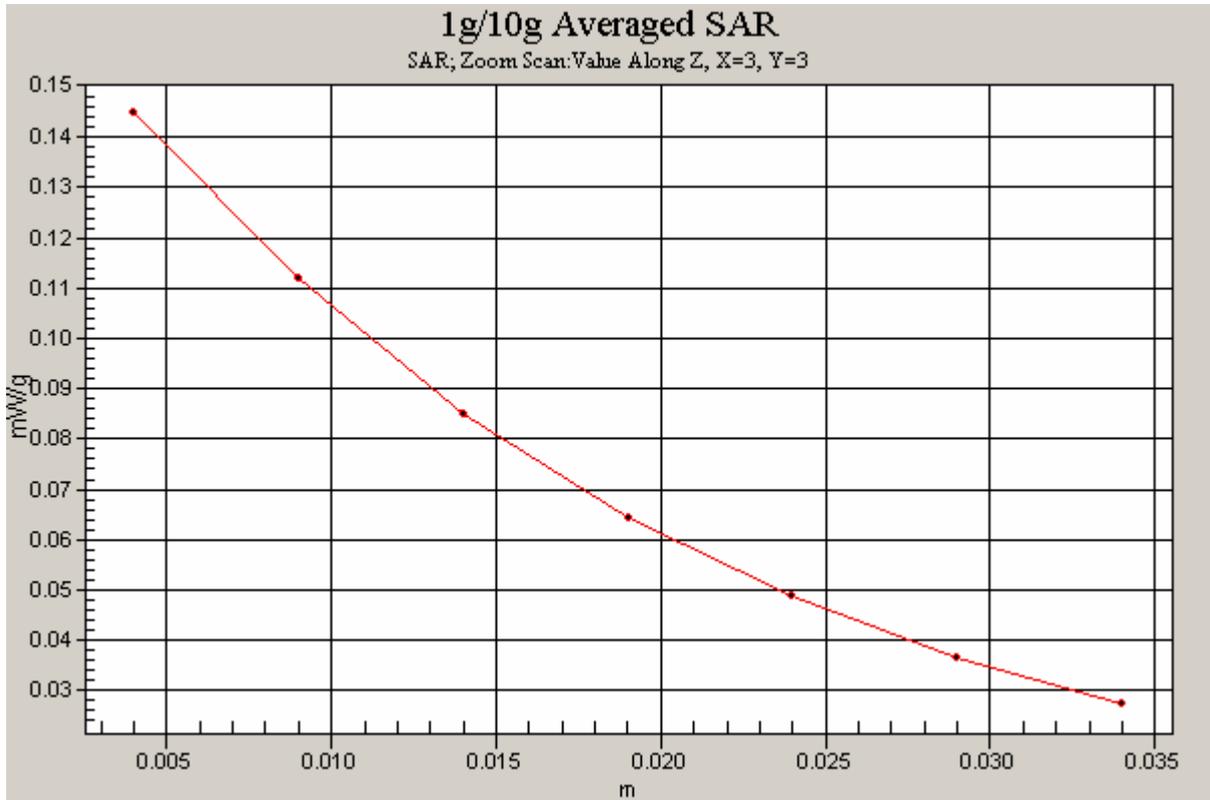


Figure 120 Z-Scan at power reference point (Left Hand Touch Cheek Open WCDMA Band V Channel 4132)

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; $\sigma = 0.931$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE3 Sn452;
Tilt High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.105 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.60 V/m; Power Drift = 0.069 dB
Peak SAR (extrapolated) = 0.126 W/kg
SAR(1 g) = 0.098 mW/g; SAR(10 g) = 0.072 mW/g
Maximum value of SAR (measured) = 0.104 mW/g

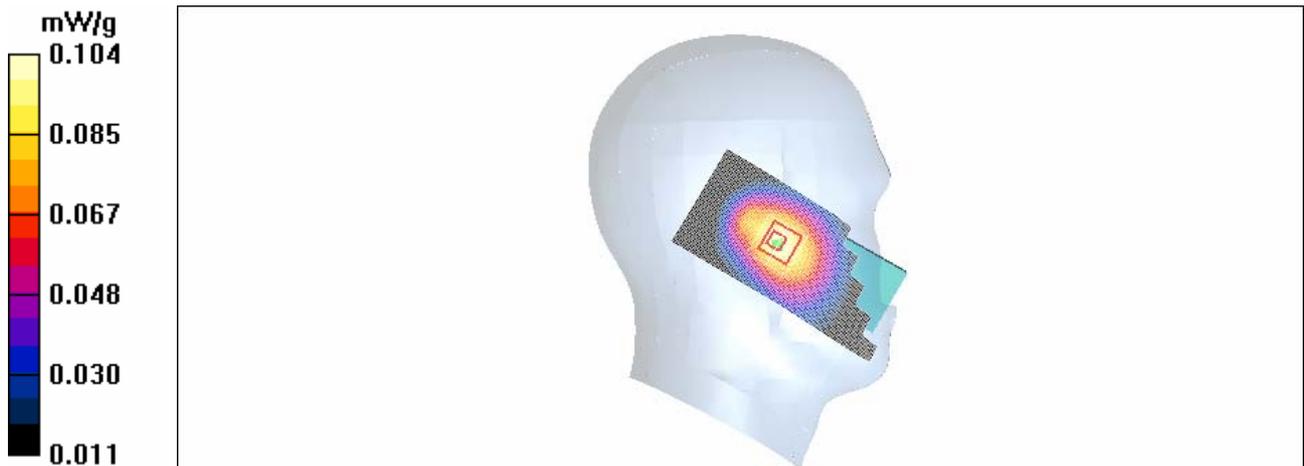


Figure 121 Left Hand Tilt Open WCDMA Band V Channel 4233

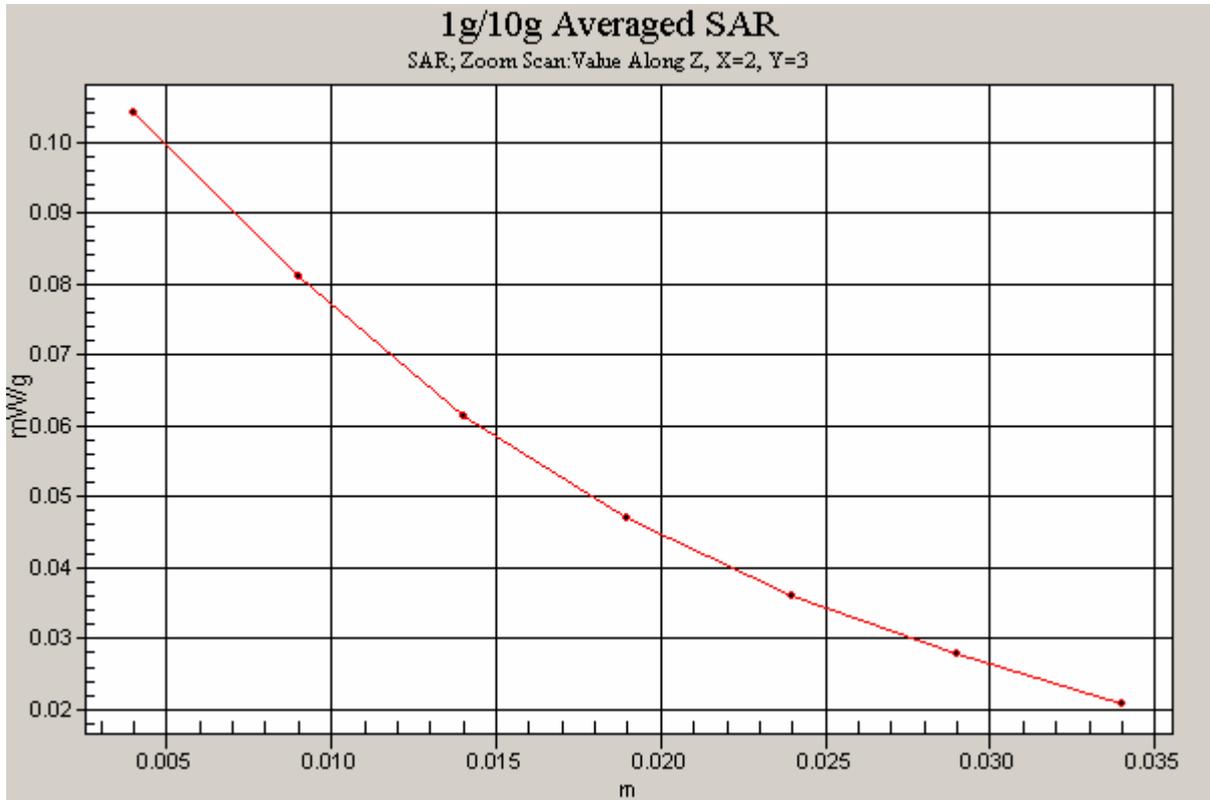


Figure 122 Z-Scan at power reference point (Left Hand Tilt Open WCDMA Band V Channel 4233)

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; $\sigma = 0.919$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Tilt Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.119 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.27 V/m; Power Drift = -0.094 dB

Peak SAR (extrapolated) = 0.144 W/kg

SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.082 mW/g

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

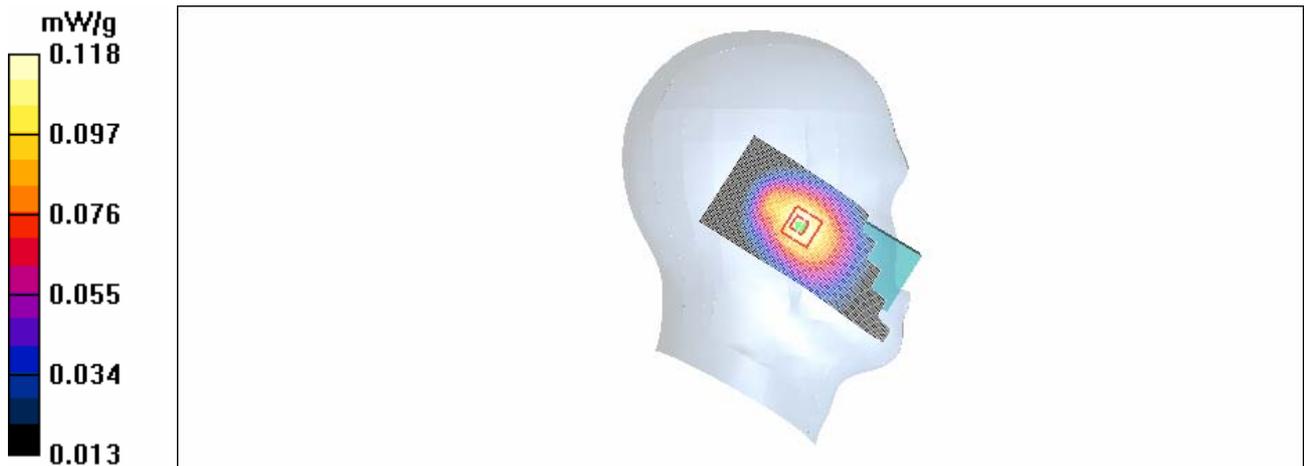


Figure 123 Left Hand Tilt Open WCDMA Band V Channel 4182

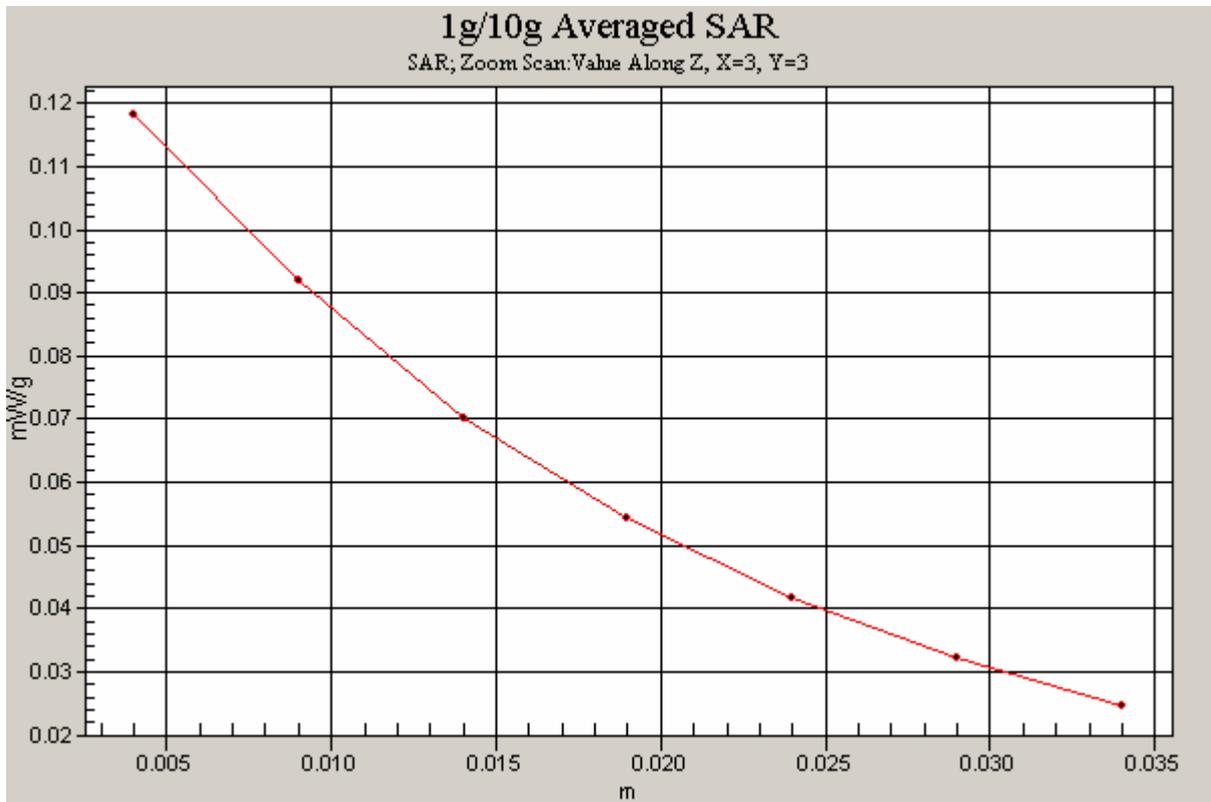


Figure 124 Z-Scan at power reference point (Left Hand Tilt Open WCDMA Band V Channel 4182)

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; $\sigma = 0.906$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Tilt Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

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

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.72 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 0.093 W/kg

SAR(1 g) = 0.072 mW/g; SAR(10 g) = 0.053 mW/g.

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

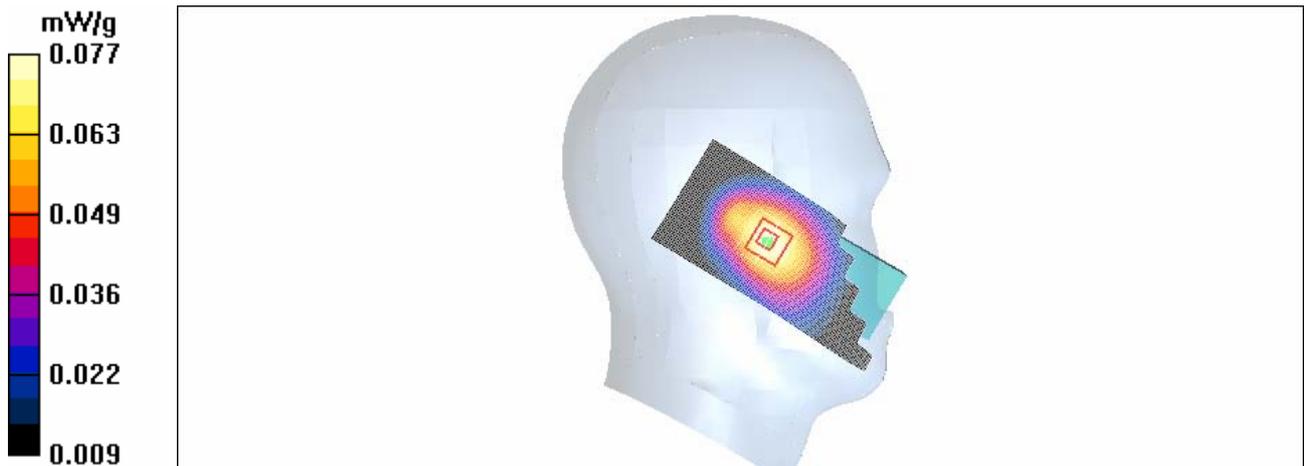


Figure 125 Left Hand Tilt Open WCDMA Band V Channel 4132

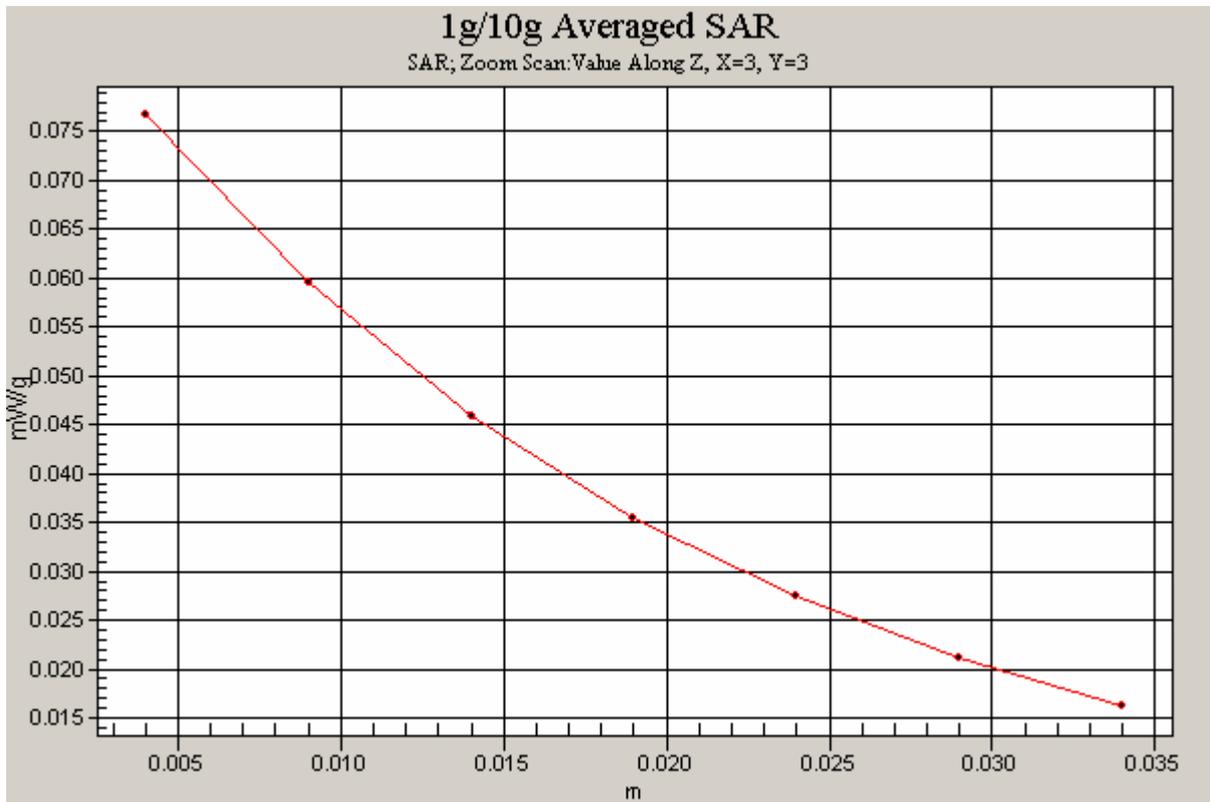


Figure 126 Z-Scan at power reference point (Left Hand Tilt Open WCDMA Band V Channel 4132)

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; $\sigma = 0.931$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE3 Sn452;

Cheek High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.235 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.46 V/m; Power Drift = -0.108 dB
Peak SAR (extrapolated) = 0.284 W/kg
SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.159 mW/g
Maximum value of SAR (measured) = 0.233 mW/g

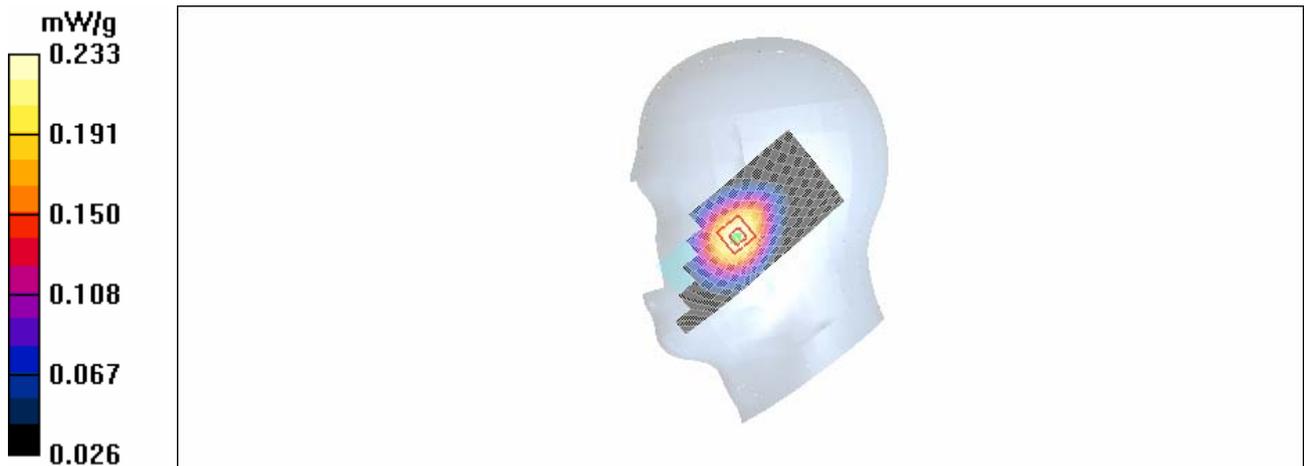


Figure 127 Right Hand Touch Cheek Open WCDMA Band V Channel 4233

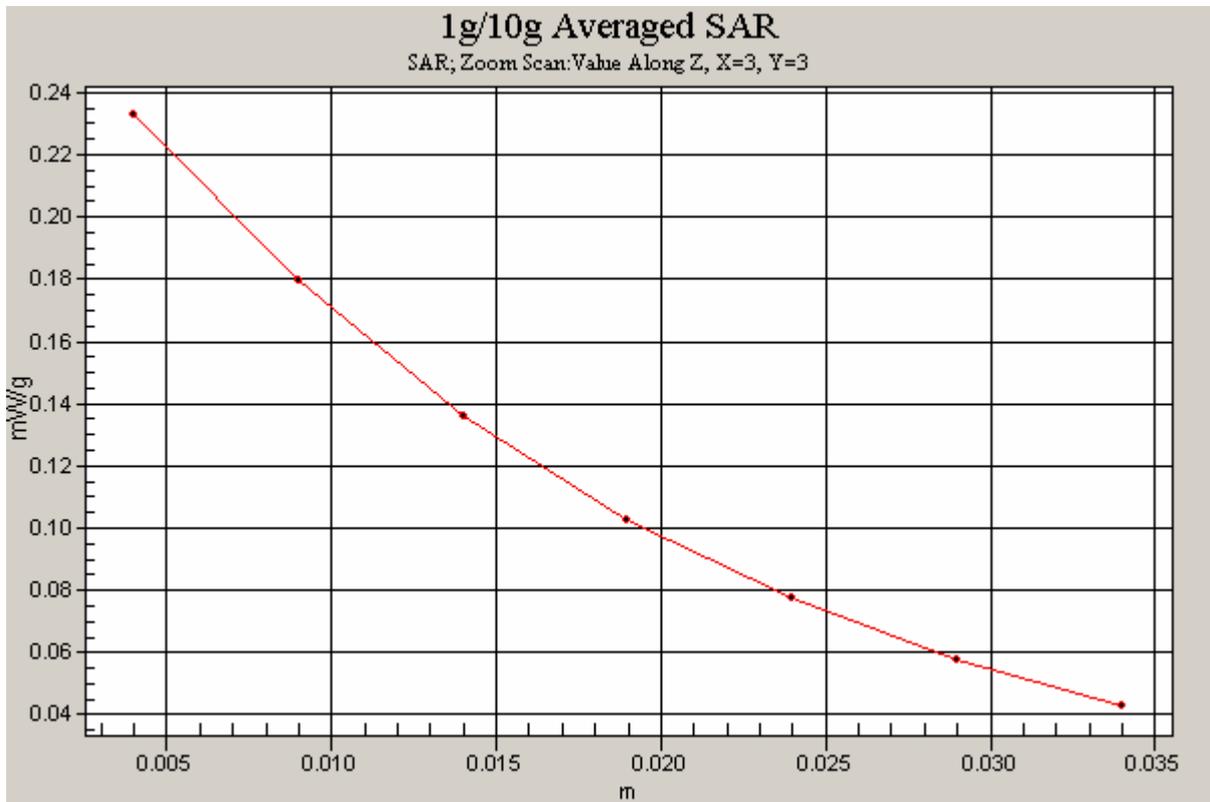


Figure 128 Z-Scan at power reference point (Right Hand Touch Cheek Open WCDMA Band V Channel 4233)

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; $\sigma = 0.919$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Cheek Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.250 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.68 V/m; Power Drift = 0.141 dB

Peak SAR (extrapolated) = 0.322 W/kg

SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.177 mW/g

Maximum value of SAR (measured) = 0.264 mW/g

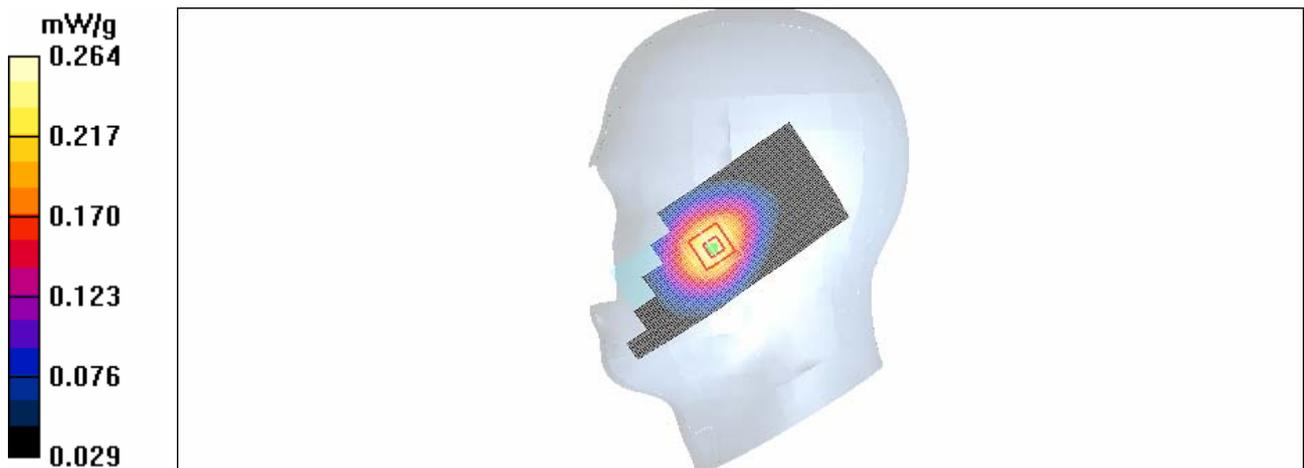


Figure 129 Right Hand Touch Cheek Open WCDMA Band V Channel 4182

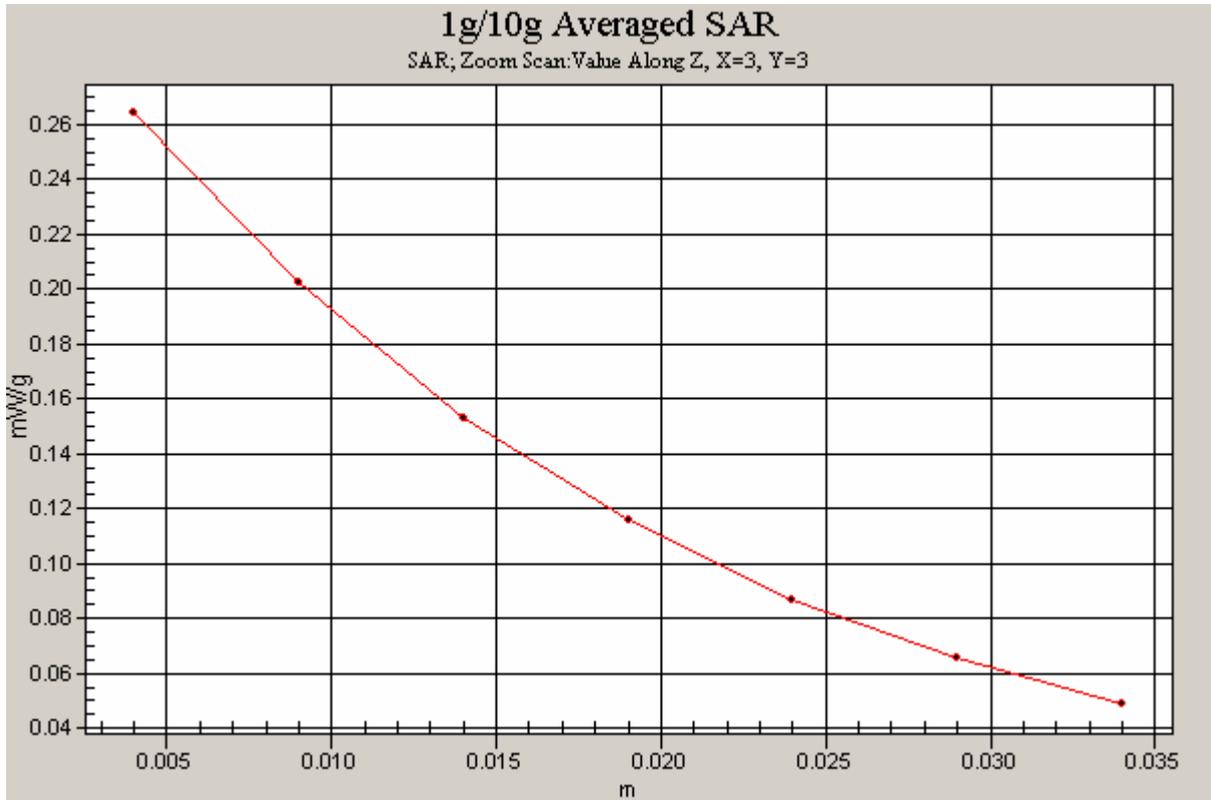


Figure 130 Z-Scan at power reference point (Right Hand Touch Cheek Open WCDMA Band V Channel 4182)

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; $\sigma = 0.906$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452; Ca

Cheek Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.157 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.65 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 0.195 W/kg

SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.107 mW/g

Maximum value of SAR (measured) = 0.161 mW/g

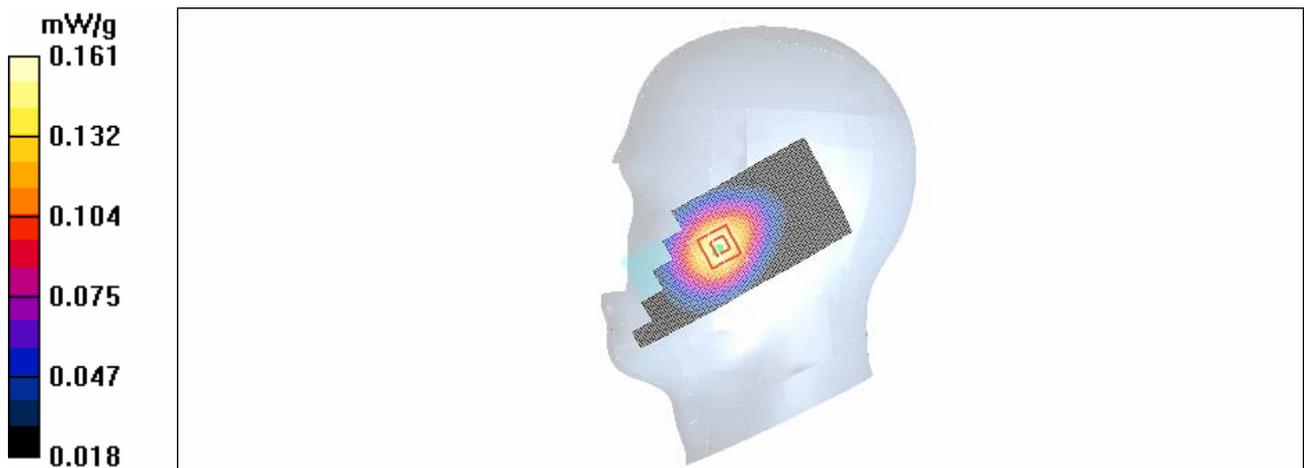


Figure 131 Right Hand Touch Cheek Open WCDMA Band V Channel 4132

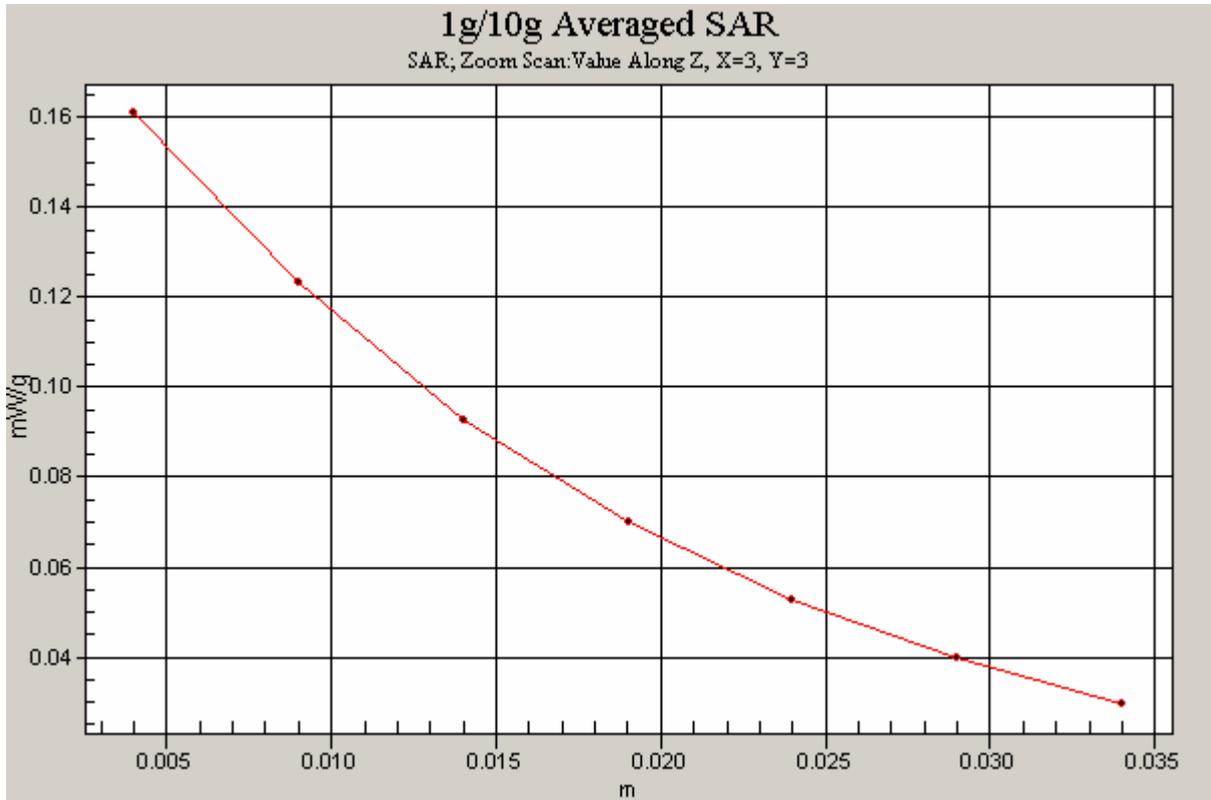


Figure 132 Z-Scan at power reference point (Right Hand Touch Cheek Open WCDMA Band V Channel 4132)

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; $\sigma = 0.931$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Tilt High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

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

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.38 V/m; Power Drift = 0.151 dB

Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.080 mW/g

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

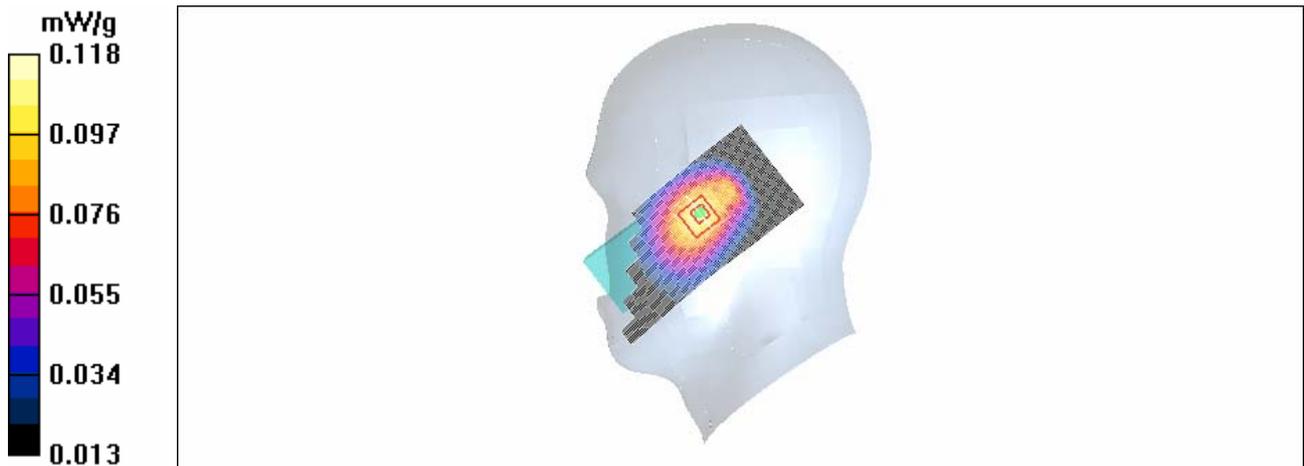


Figure 133 Right Hand Tilt Open WCDMA Band V Channel 4233

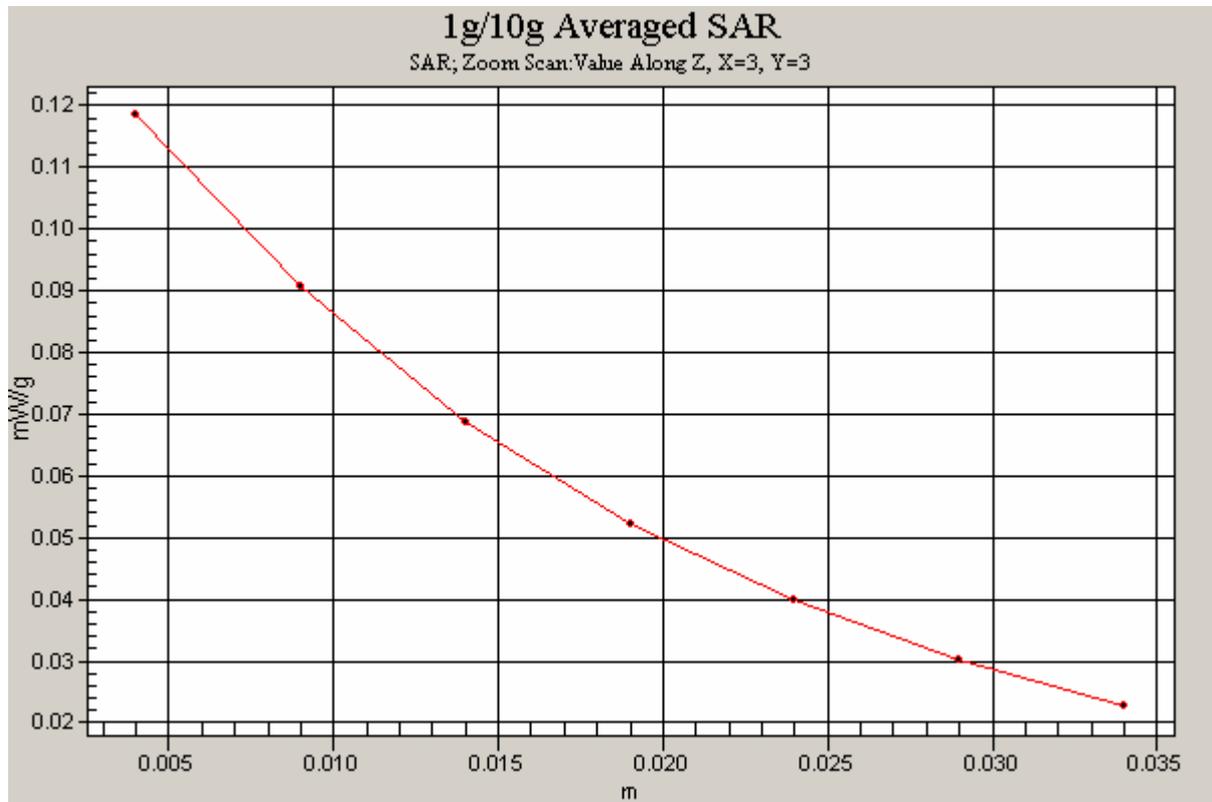


Figure 134 Z-Scan at power reference point (Right Hand Tilt Open WCDMA Band V Channel 4233)

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; $\sigma = 0.919$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Tilt Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

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

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.52 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.169 W/kg

SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.138 mW/g

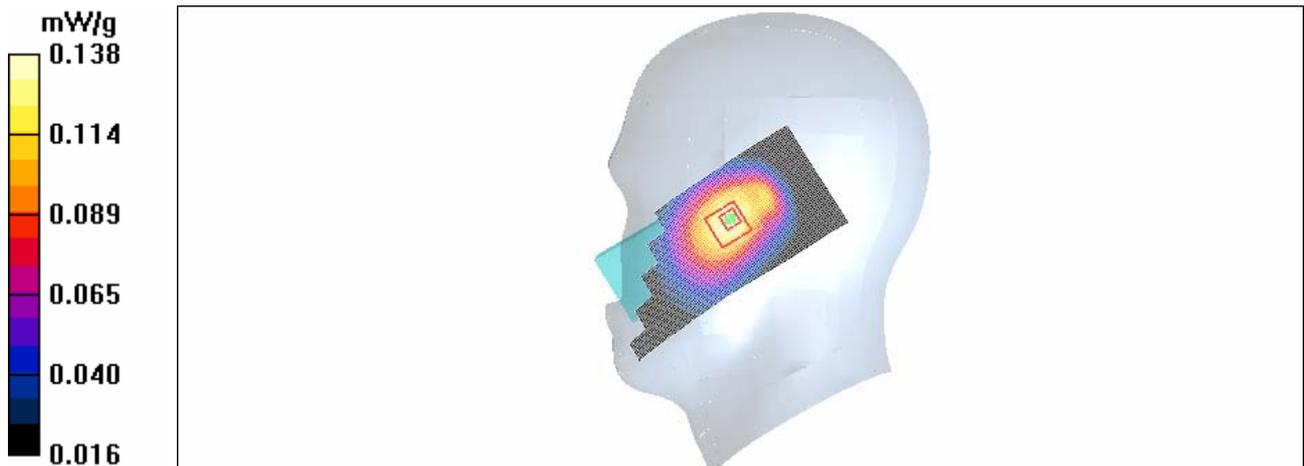


Figure 135 Right Hand Tilt Open WCDMA Band V Channel 4182

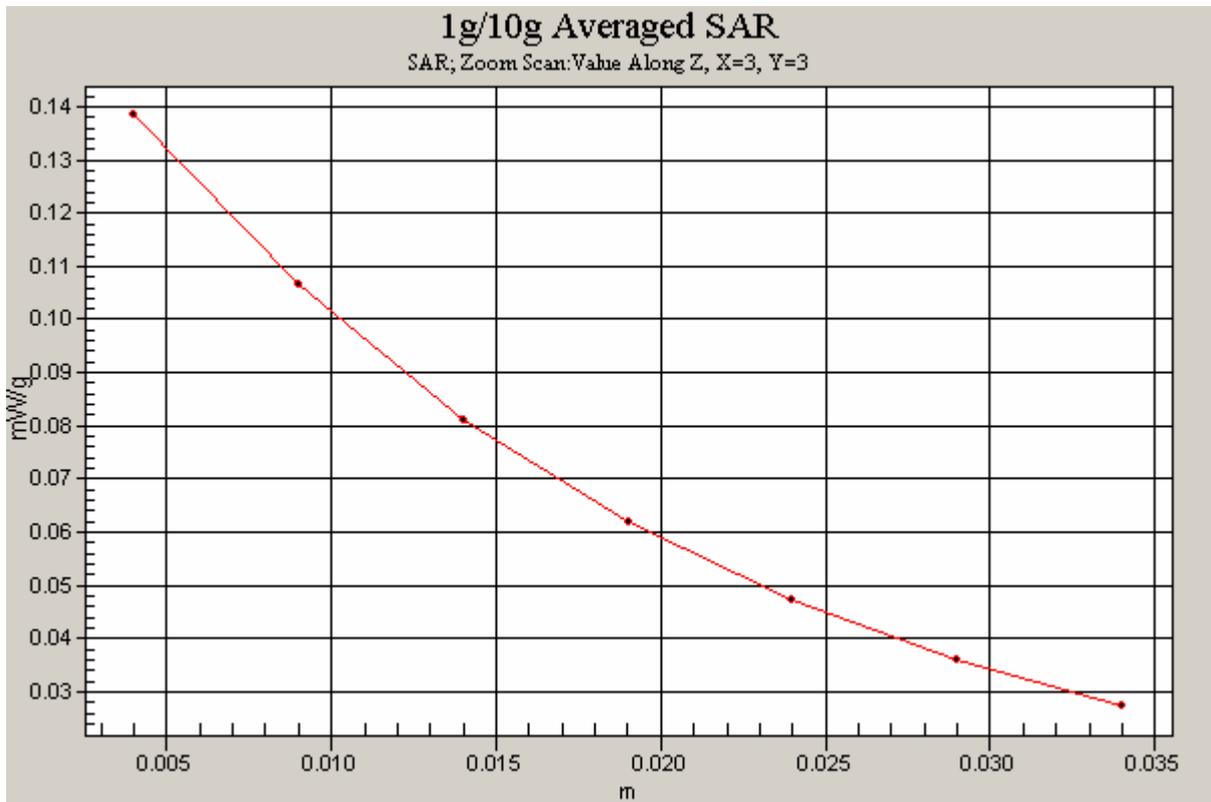


Figure 136 Z-Scan at power reference point (Right Hand Tilt Open WCDMA Band V Channel 4182)

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; $\sigma = 0.906$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Tilt Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.085 mW/g

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.53 V/m; Power Drift = -0.055 dB

Peak SAR (extrapolated) = 0.102 W/kg

SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.059 mW/g

Maximum value of SAR (measured) = 0.085 mW/g

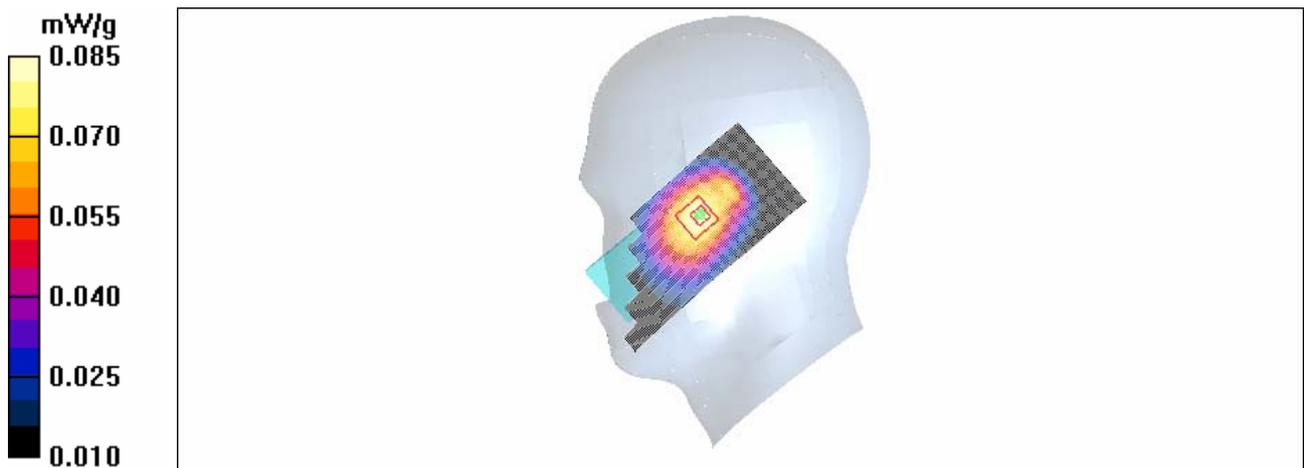


Figure 137 Right Hand Tilt Open WCDMA Band V Channel 4132

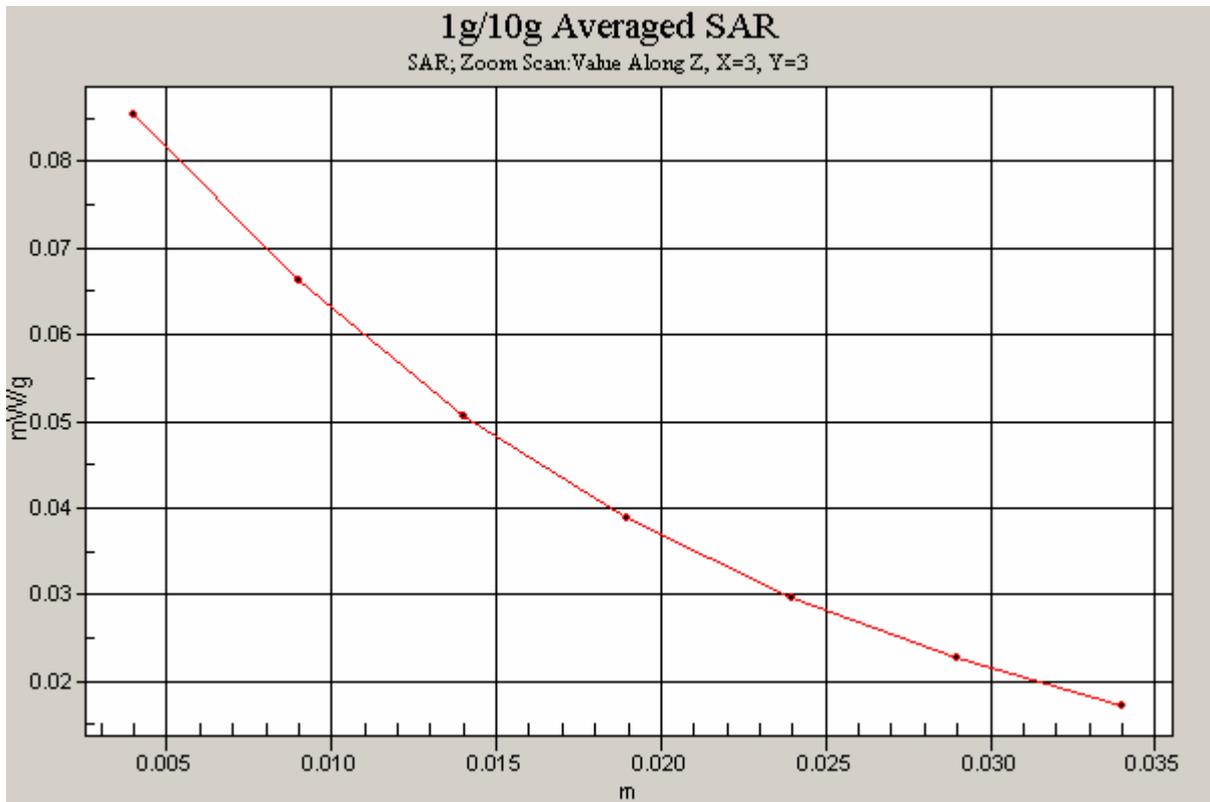


Figure 138 Z-Scan at power reference point (Right Hand Tilt Open WCDMA Band V Channel 4132)

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; $\sigma = 1$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE3 Sn452;

Towards ground, High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

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

Towards ground, High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.74 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 0.420 W/kg

SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.244 mW/g

Maximum value of SAR (measured) = 0.356 mW/g

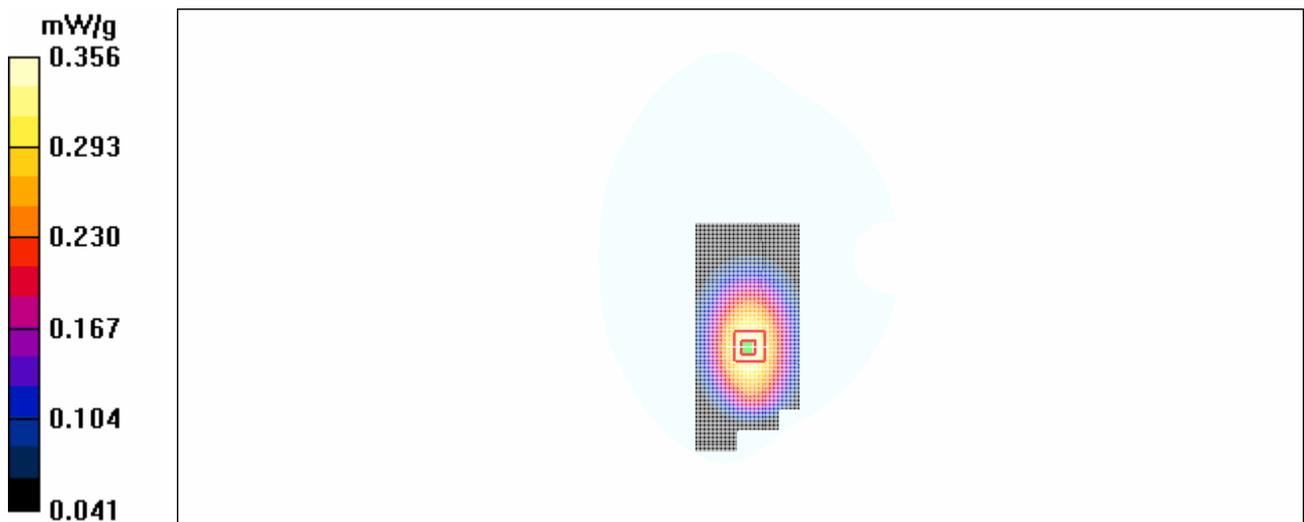


Figure 139 Body, Towards Ground, Open, WCDMA Band V Channel 4233

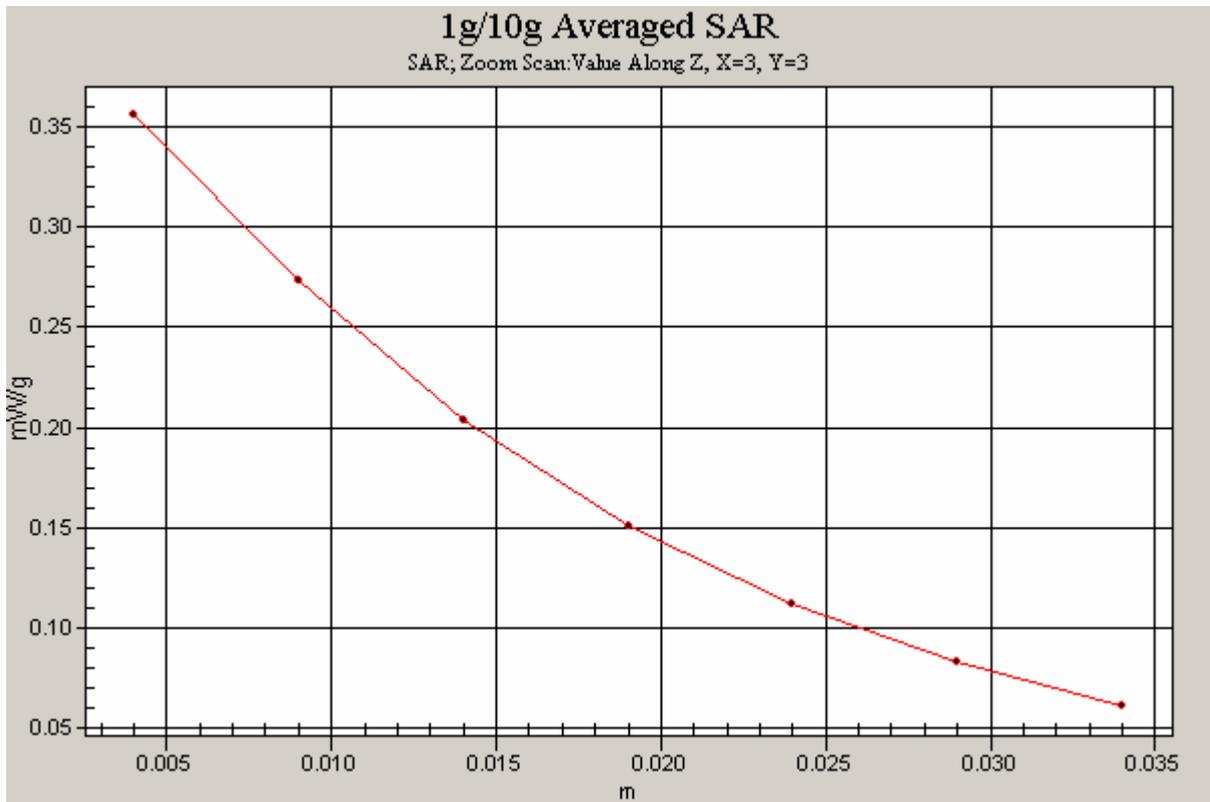


Figure 140 Z-Scan at power reference point (Body, Towards Ground, Open, WCDMA Band V Channel 4233)

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; $\sigma = 0.992$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE3 Sn452;

Towards ground, Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.385 mW/g

Towards ground, Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.82 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 0.474 W/kg

SAR(1 g) = 0.375 mW/g; SAR(10 g) = 0.272 mW/g

Maximum value of SAR (measured) = 0.397 mW/g

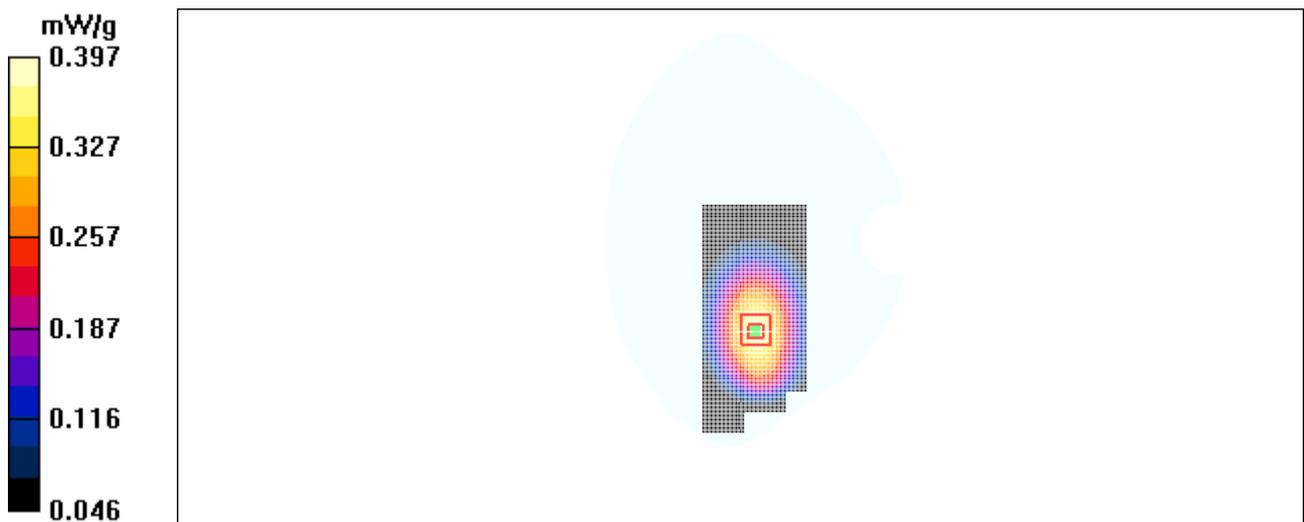


Figure 141 Body, Towards Ground, Open, WCDMA Band V Channel 4182

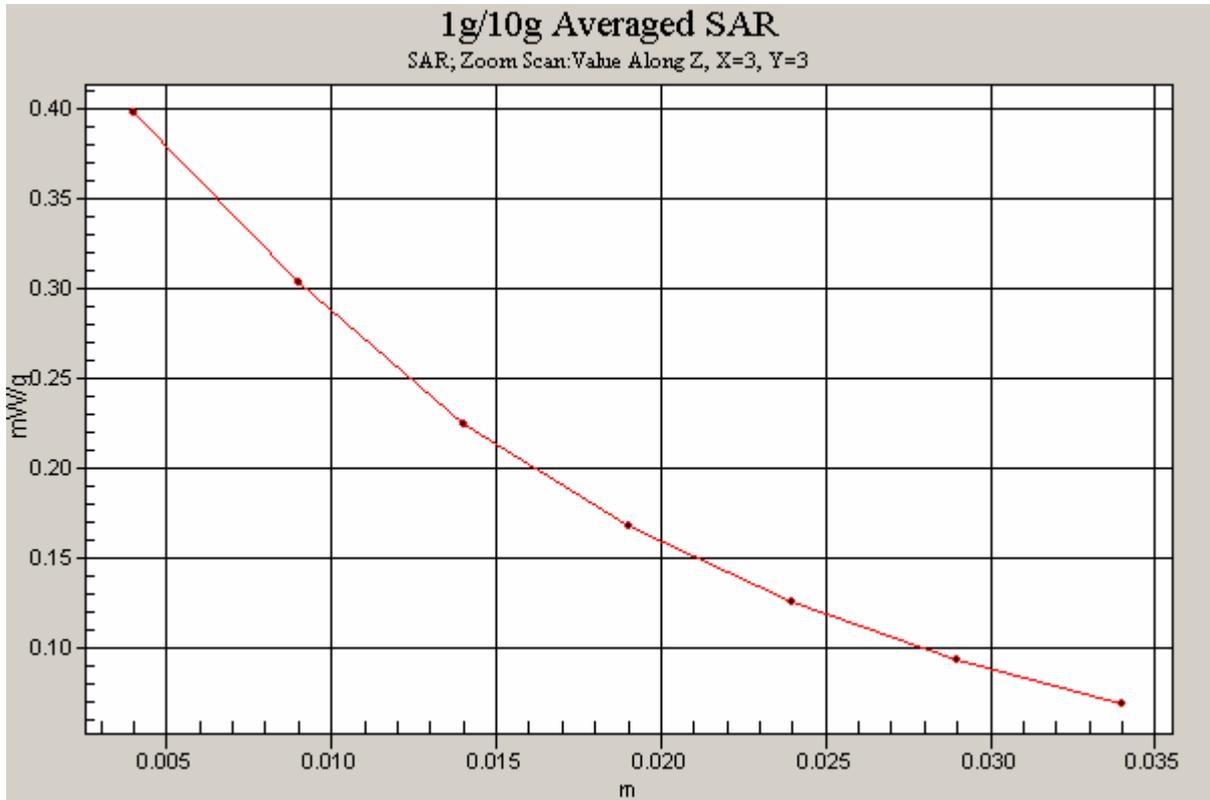


Figure 142 Z-Scan at power reference point (Body, Towards Ground, Open, WCDMA Band V Channel 4182)

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; $\sigma = 0.984$ mho/m; $\epsilon_r = 55.2$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE3 Sn452;

Towards ground, Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.246 mW/g

Towards ground, Low /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.40 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.322 W/kg

SAR(1 g) = 0.246 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 0.270 mW/g

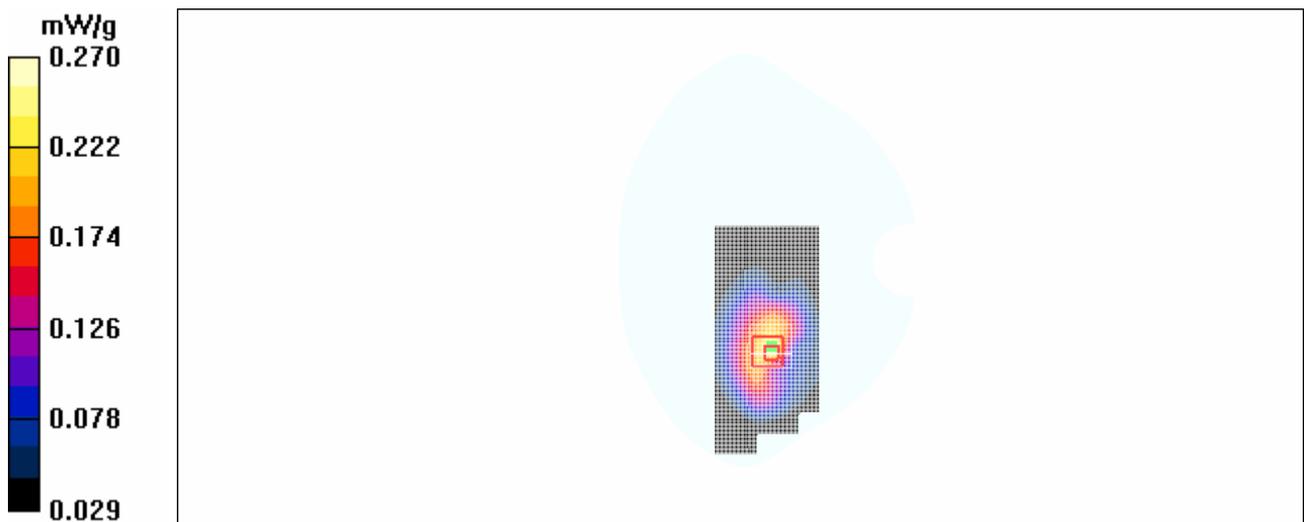


Figure 143 Body, Towards Ground, Open, WCDMA Band V Channel 4132

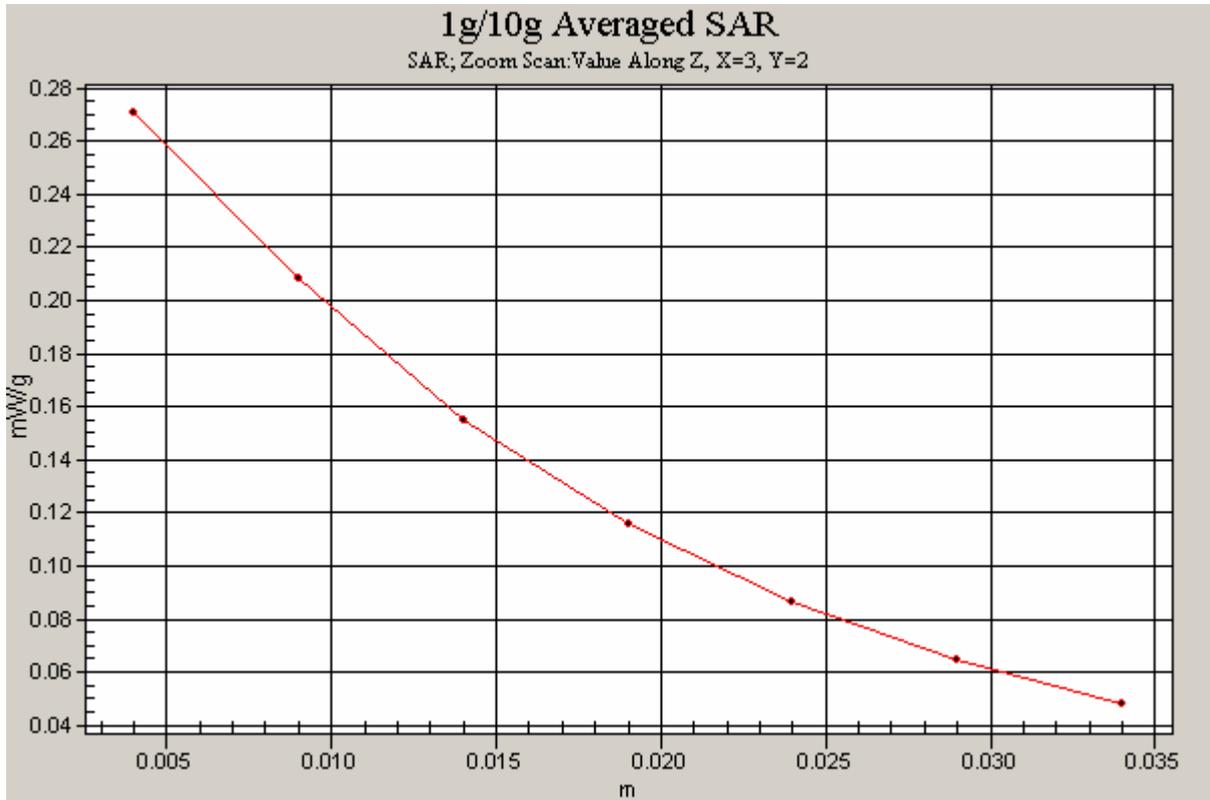


Figure 144 Z-Scan at power reference point (Body, Towards Ground, Open, WCDMA Band V Channel 4132)

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; $\sigma = 1$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE3 Sn452;

Towards phantom, High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.261 mW/g

Towards phantom, High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.50 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 0.303 W/kg

SAR(1 g) = 0.244 mW/g; SAR(10 g) = 0.178 mW/g

Maximum value of SAR (measured) = 0.258 mW/g

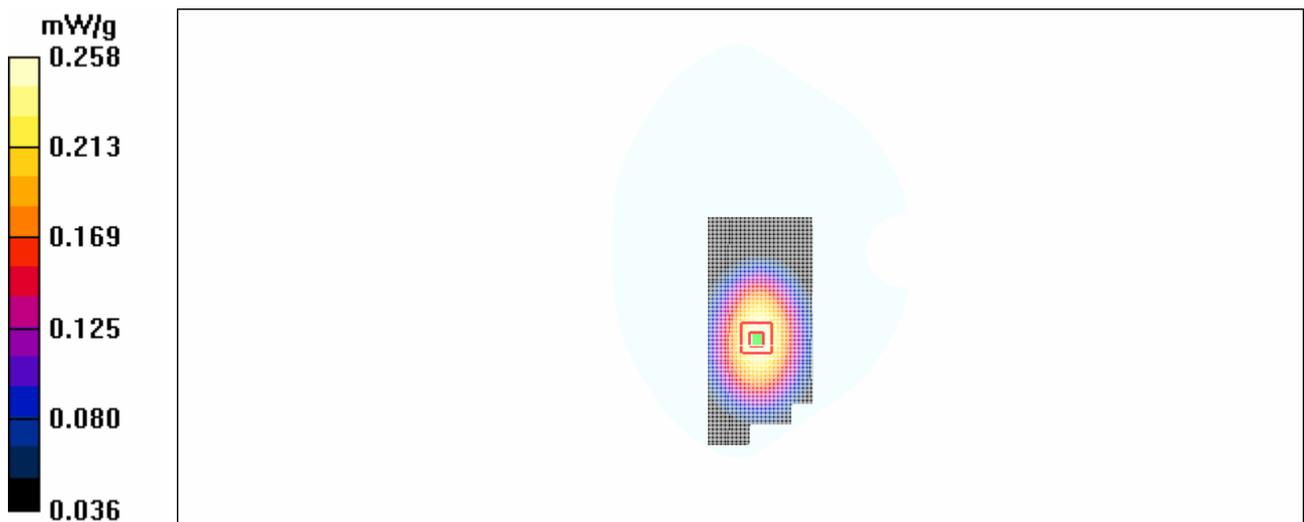


Figure 145 Body, Towards Phantom, Open, WCDMA Band V Channel 4233

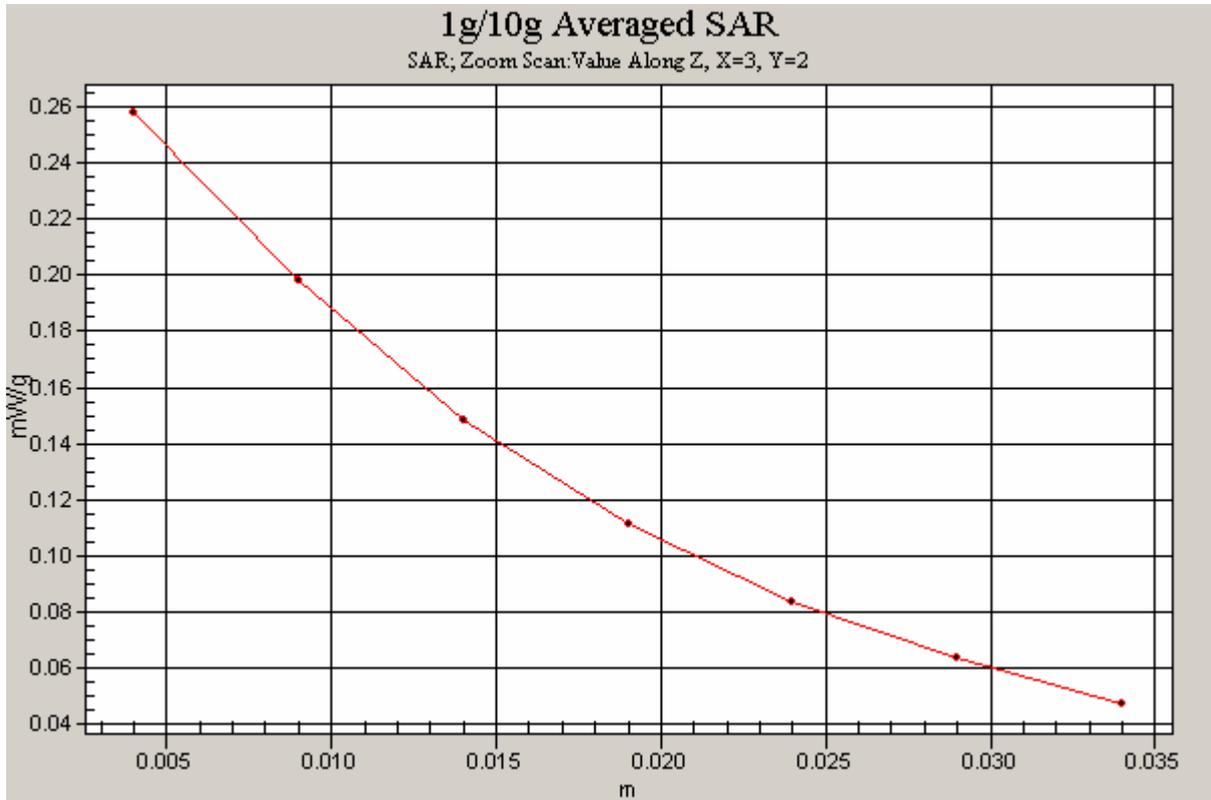


Figure 146 Z-Scan at power reference point (Body, Towards Phantom, Open, WCDMA Band V Channel 4233)

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; $\sigma = 0.992$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE3 Sn452;

Towards phantom, Middle /Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.289 mW/g

Towards phantom, Middle /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.88 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.348 W/kg

SAR(1 g) = 0.274 mW/g; SAR(10 g) = 0.196 mW/g

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

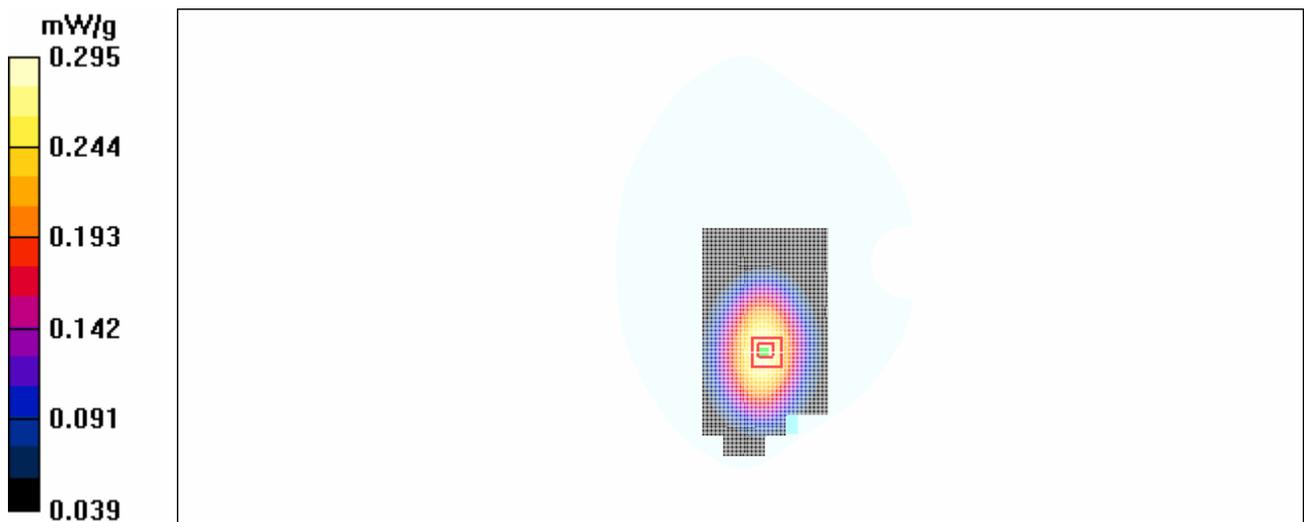


Figure 147 Body, Towards Phantom, Open, WCDMA Band V Channel 4182

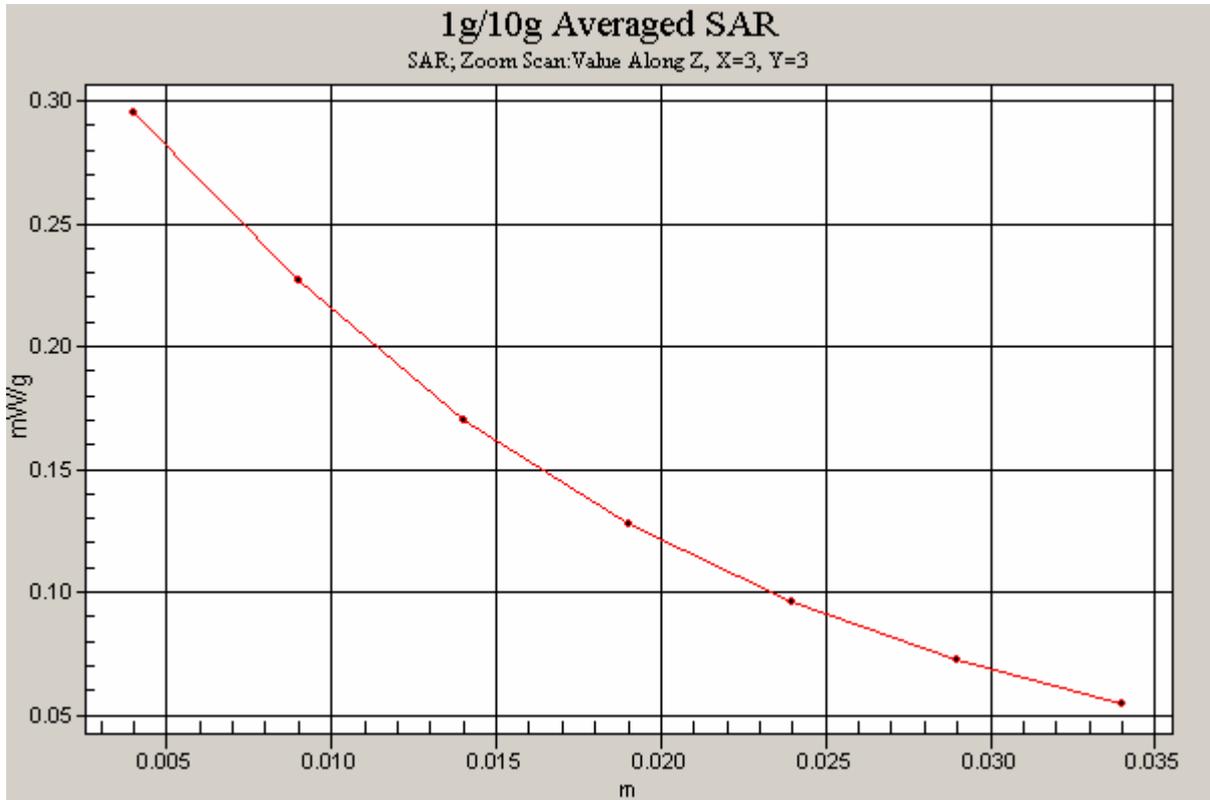


Figure 148 Z-Scan at power reference point (Body, Towards Phantom, Open, WCDMA Band V Channel 4182)

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; $\sigma = 0.984$ mho/m; $\epsilon_r = 55.2$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE3 Sn452;

Towards phantom, Low /Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.195 mW/g

Towards the phantom, Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.33 V/m; Power Drift = 0.126 dB

Peak SAR (extrapolated) = 0.232 W/kg

SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.135 mW/g

Maximum value of SAR (measured) = 0.197 mW/g

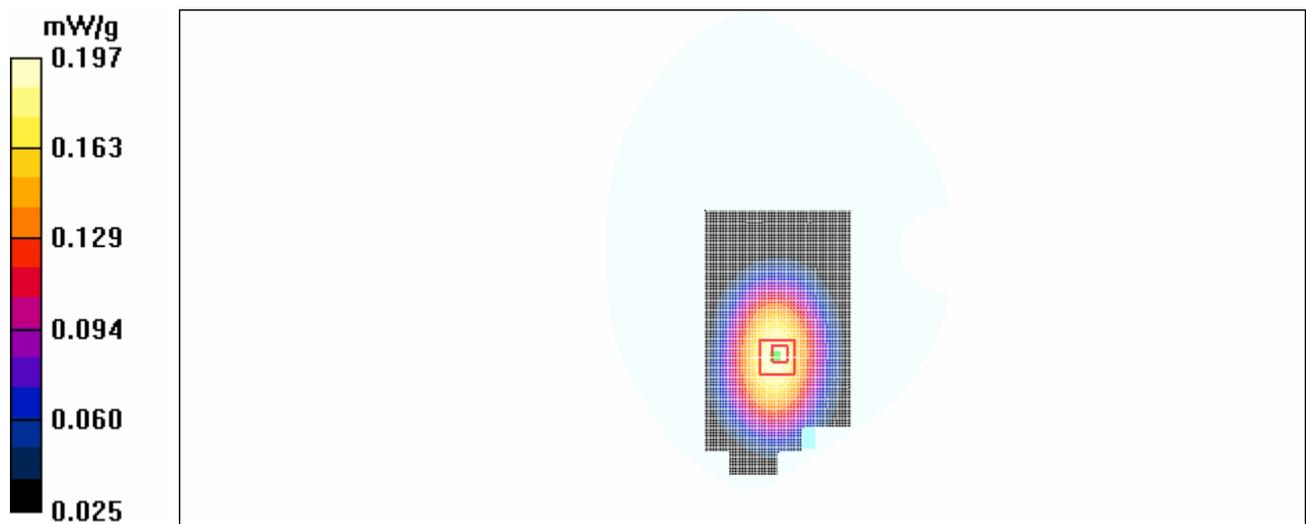


Figure 149 Body, Towards Phantom, Open, WCDMA Band V Channel 4132

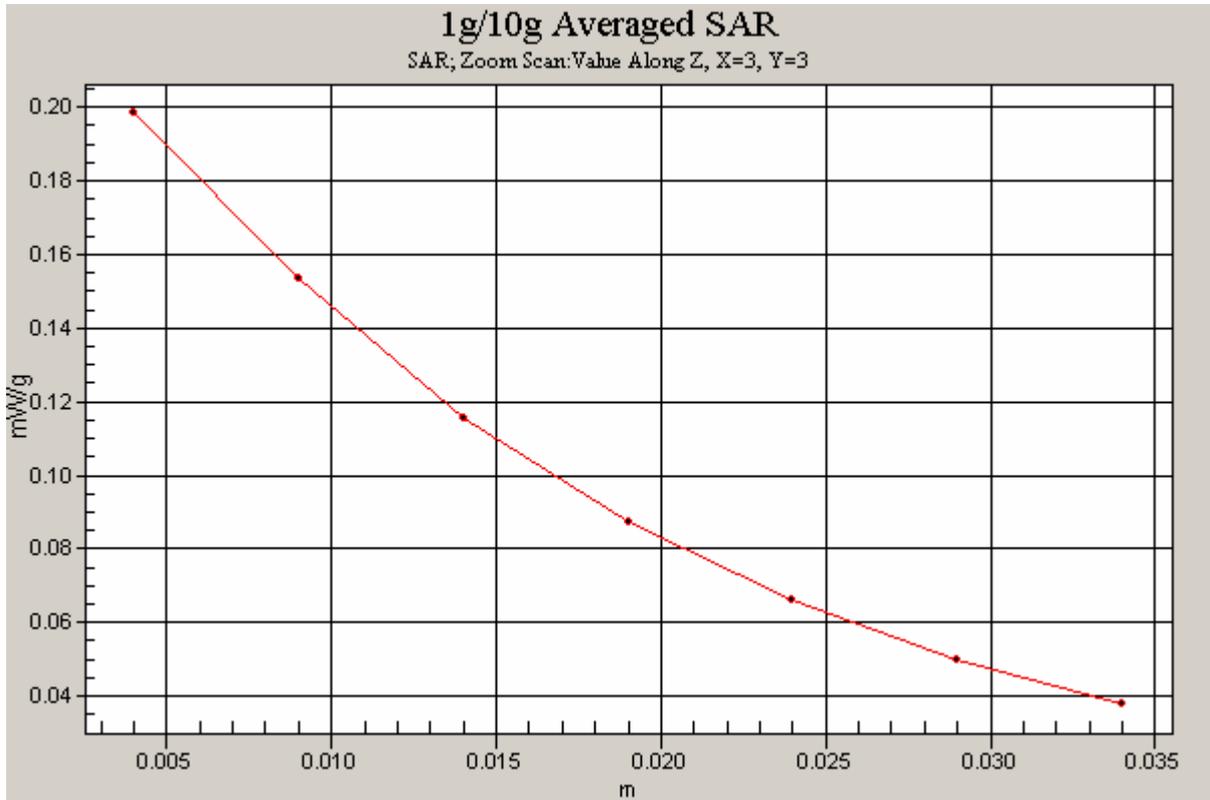


Figure 150 Z-Scan at power reference point (Body, Towards Phantom, Open, WCDMA Band V Channel 4132)

WCDMA Band V Towards Ground earphone Middle Open

Communication System: WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.992$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE3 Sn452;

Towards ground, Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.348 mW/g

Towards ground, Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.72 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.411 W/kg

SAR(1 g) = 0.328 mW/g; SAR(10 g) = 0.237 mW/g

Maximum value of SAR (measured) = 0.347 mW/g

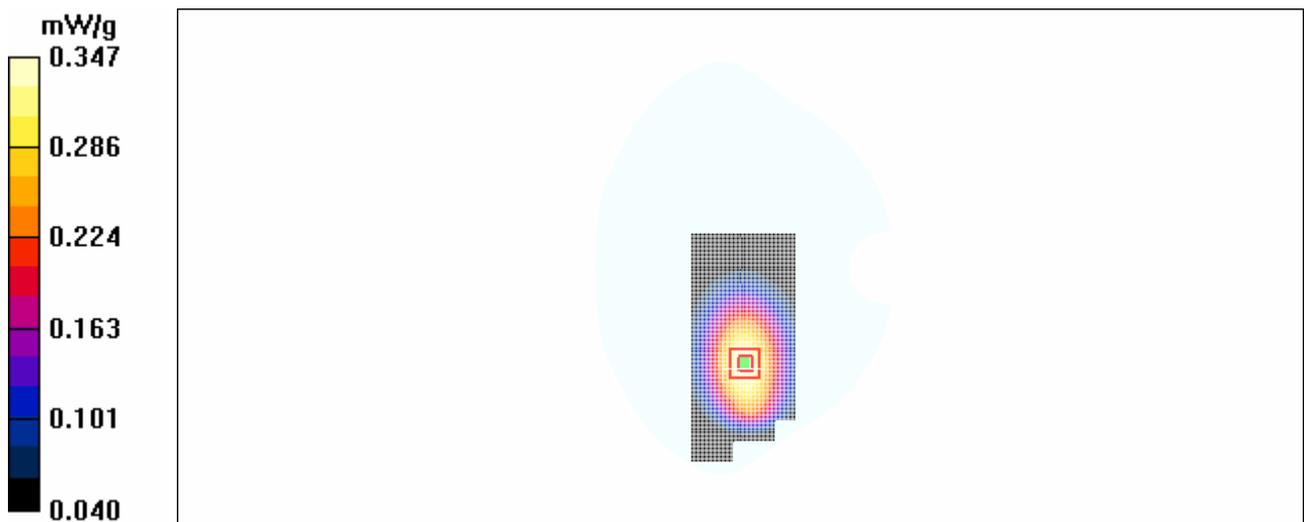


Figure 151 Body with earphone, Towards Ground, Open, WCDMA Band V, Channel 4182

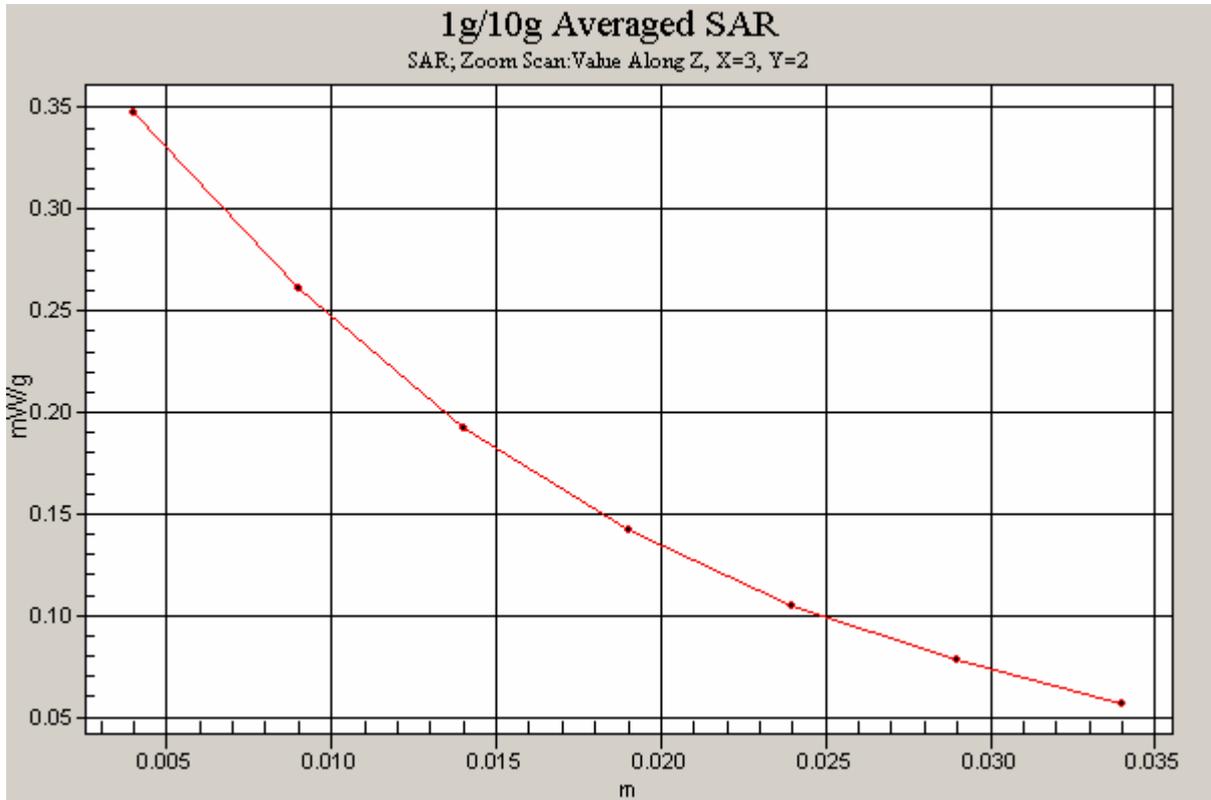


Figure 152 Z-Scan at power reference point (Body with earphone, Towards Ground, Open, WCDMA Band V, Channel 4182)

WCDMA Band V Towards Ground Bluetooth earphone Middle Open

Communication System: WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.992$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE3 Sn452;

Towards ground, Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.354 mW/g

Towards ground, Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.95 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.445 W/kg

SAR(1 g) = 0.355 mW/g; SAR(10 g) = 0.254 mW/g

Maximum value of SAR (measured) = 0.387 mW/g

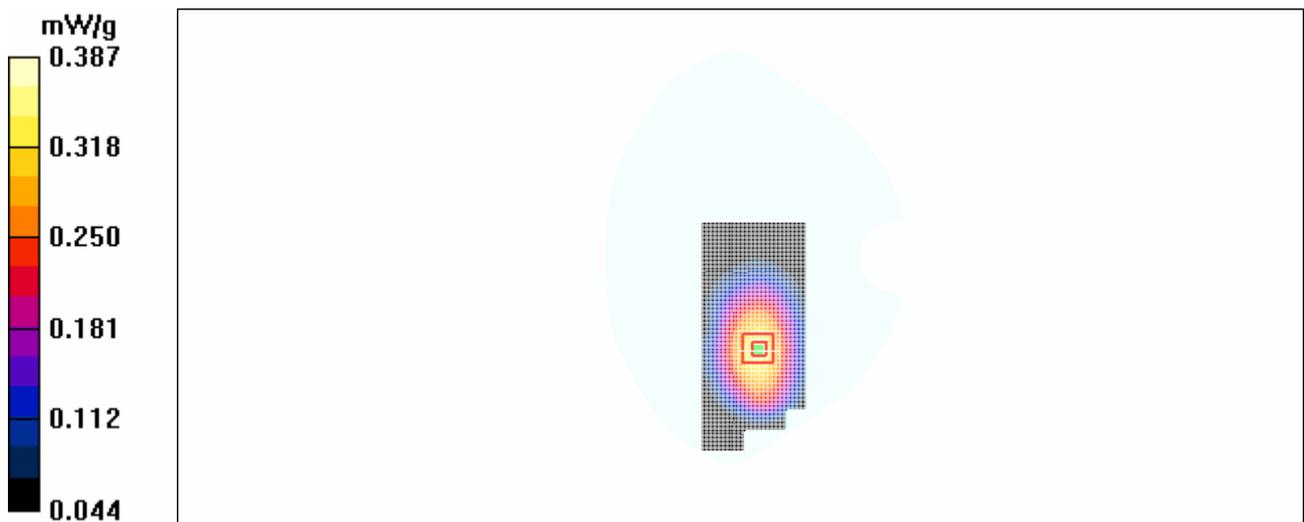


Figure 153 Body with Bluetooth earphone, Towards Ground, Open, WCDMA Band V, Channel 4182

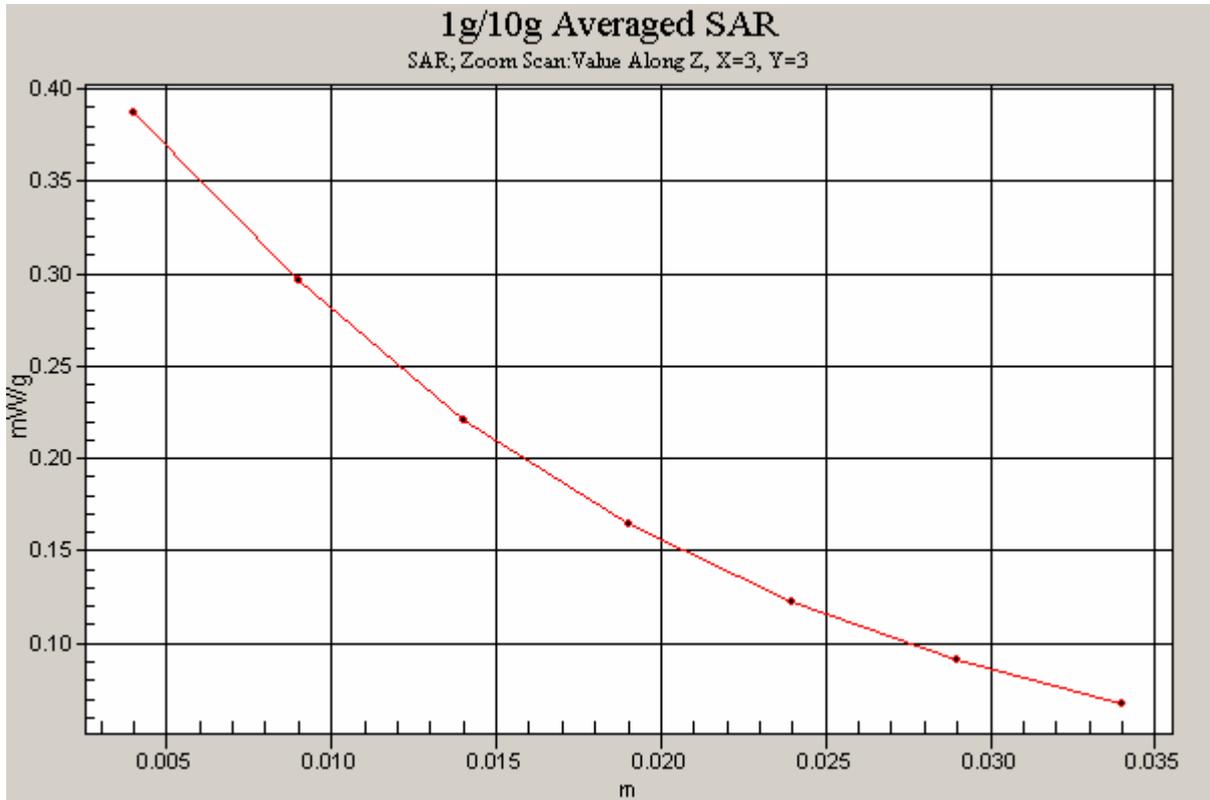


Figure 154 Z-Scan at power reference point (Body with Bluetooth earphone, Towards Ground, Open, WCDMA Band V, Channel4182)

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; $\sigma = 0.931$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE3 Sn452;

Cheek High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.172 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.85 V/m; Power Drift = 0.007 dB
Peak SAR (extrapolated) = 0.217 W/kg
SAR(1 g) = 0.166 mW/g; SAR(10 g) = 0.121 mW/g
Maximum value of SAR (measured) = 0.174 mW/g

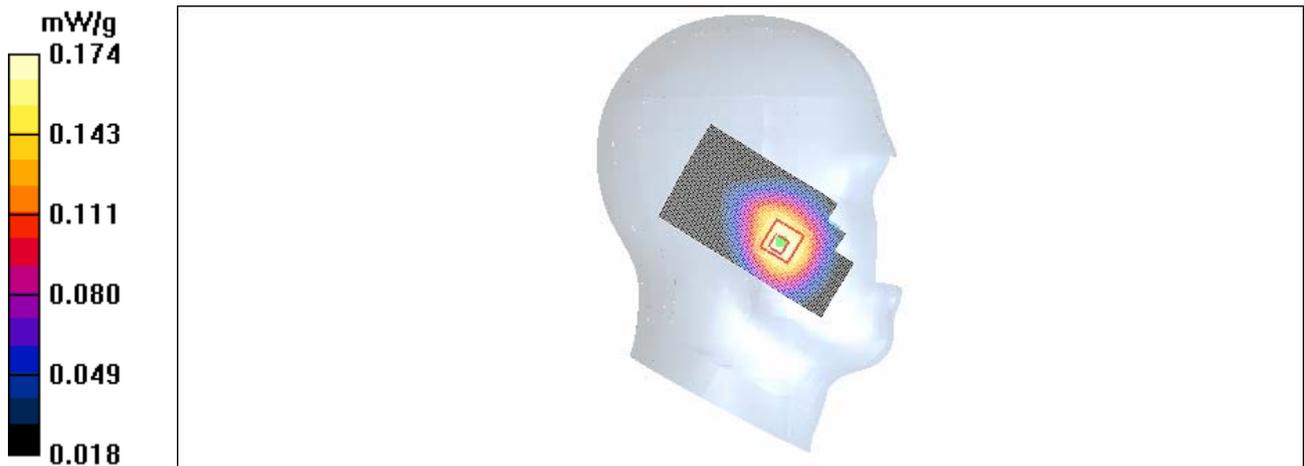


Figure 155 Left Hand Touch Cheek Close WCDMA Band V Channel 4233

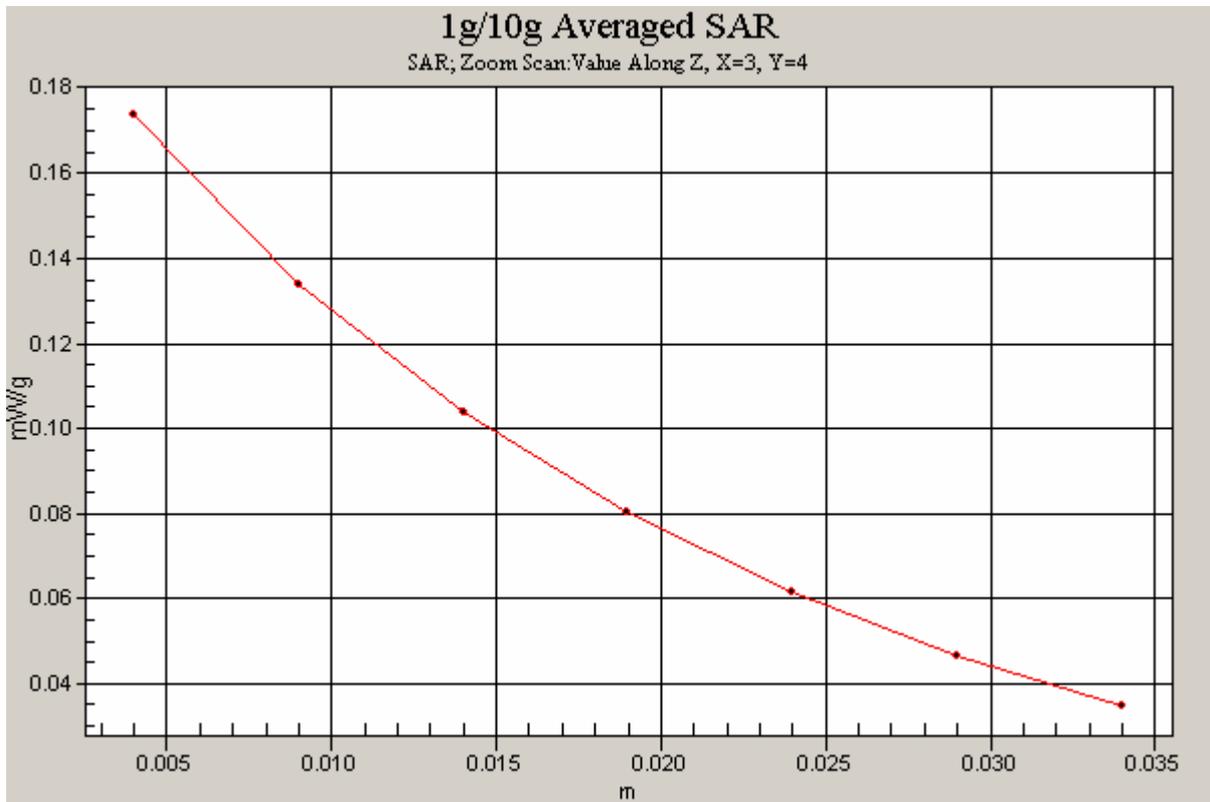


Figure 156 Z-Scan at power reference point (Left Hand Touch Close Cheek WCDMA Band V Channel 4233)

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; $\sigma = 0.919$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Cheek Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.144 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.45 V/m; Power Drift = 0.193 dB

Peak SAR (extrapolated) = 0.186 W/kg

SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.103 mW/g

Maximum value of SAR (measured) = 0.149 mW/g

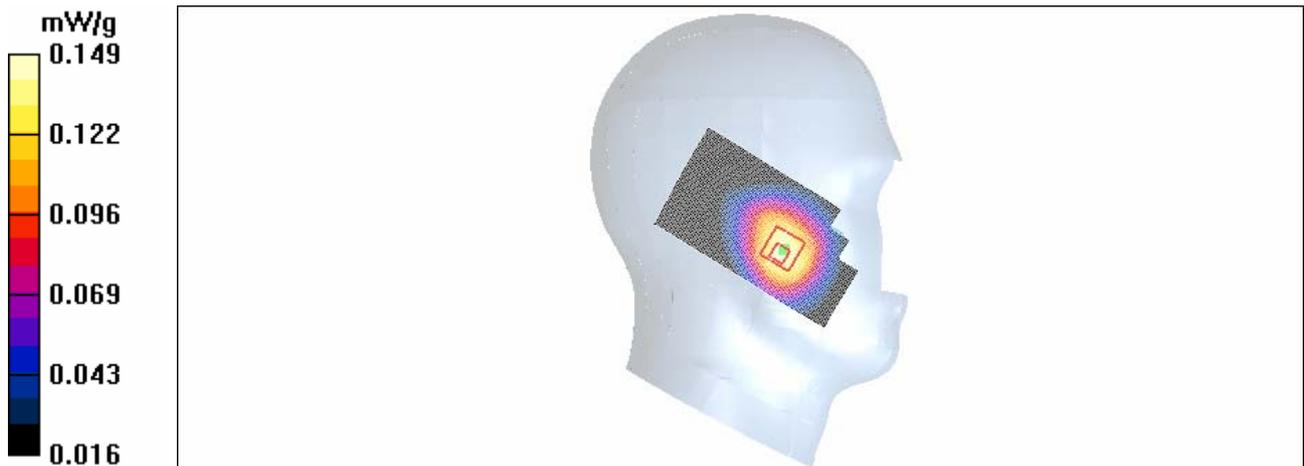


Figure 157 Left Hand Touch Cheek Close WCDMA Band V Channel 4182

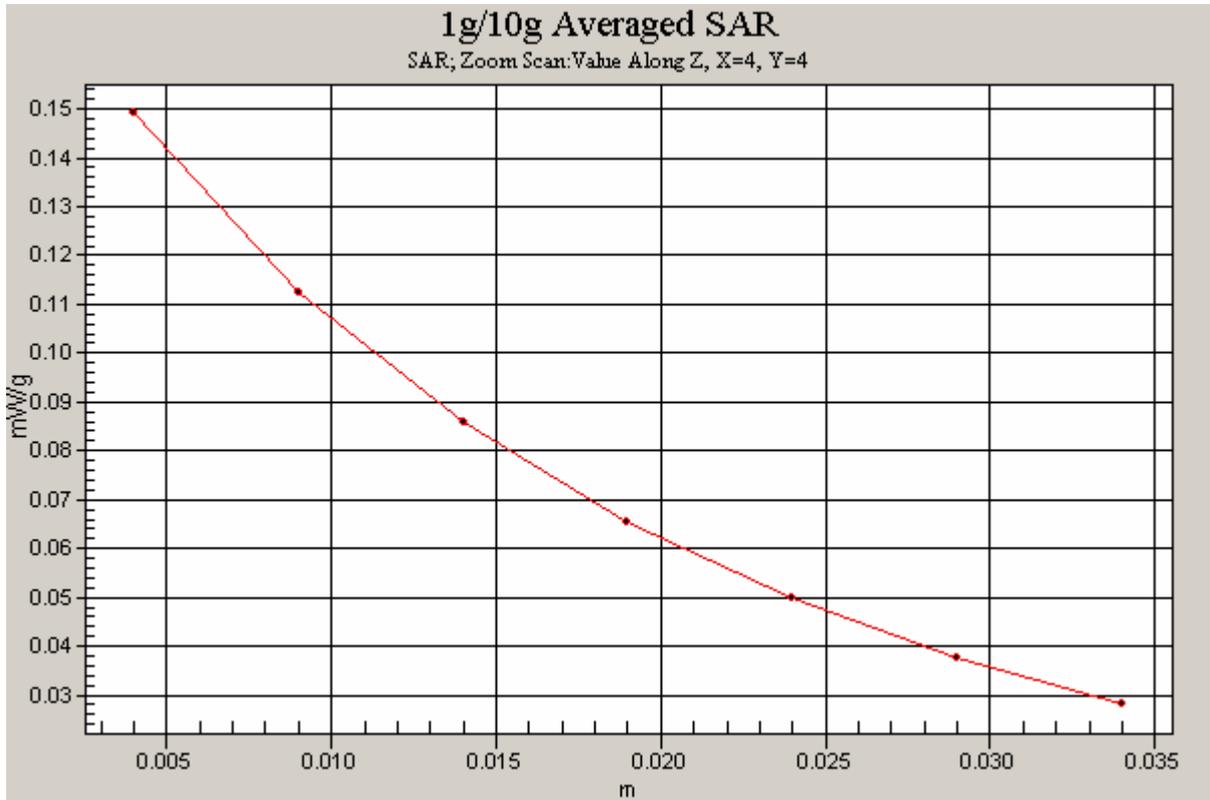


Figure 158 Z-Scan at power reference point (Left Hand Touch Cheek Close WCDMA Band V Channel 4182)

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; $\sigma = 0.906$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Cheek Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.095 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.71 V/m; Power Drift = -0.138 dB

Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.063 mW/g

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

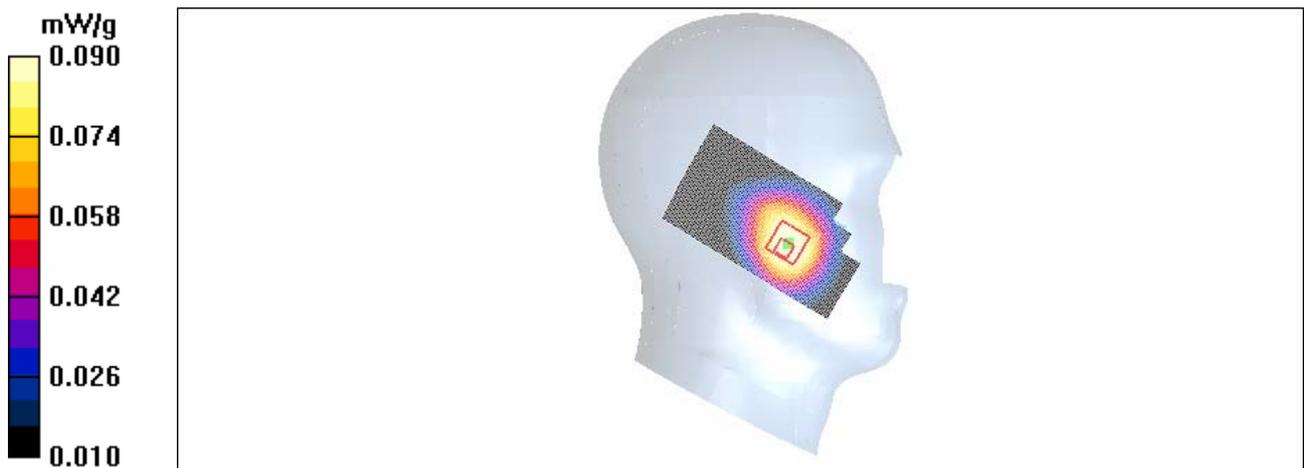


Figure 159 Left Hand Touch Cheek Close WCDMA Band V Channel 4132

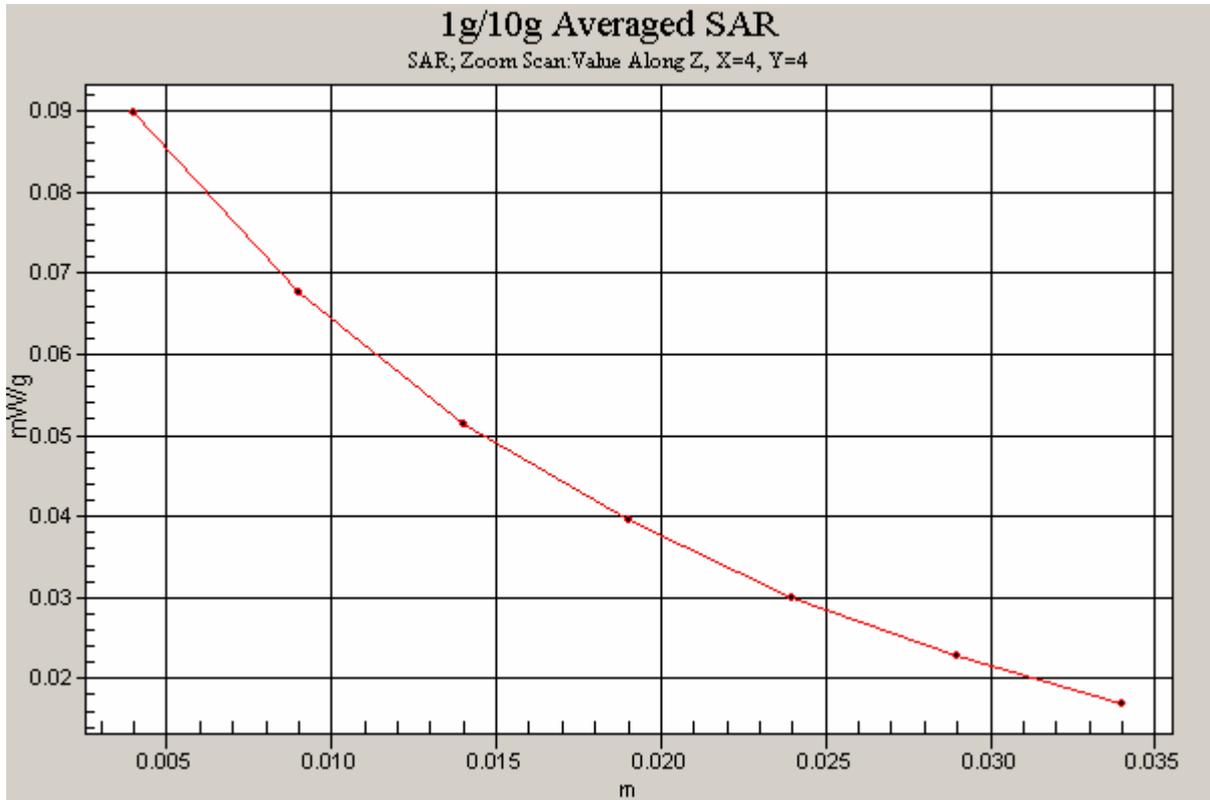


Figure 160 Z-Scan at power reference point (Left Hand Touch Cheek Close WCDMA Band V Channel 4132)

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; $\sigma = 0.931$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Tilt High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.091 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.55 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 0.110 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.065 mW/g

Maximum value of SAR (measured) = 0.093 mW/g

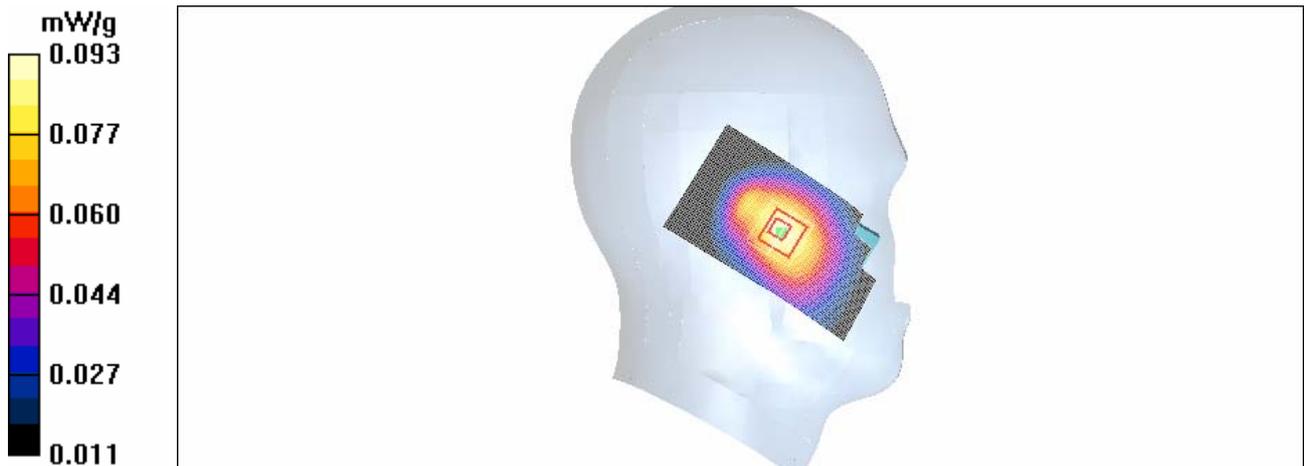


Figure 161 Left Hand Tilt Close WCDMA Band V Channel 4233

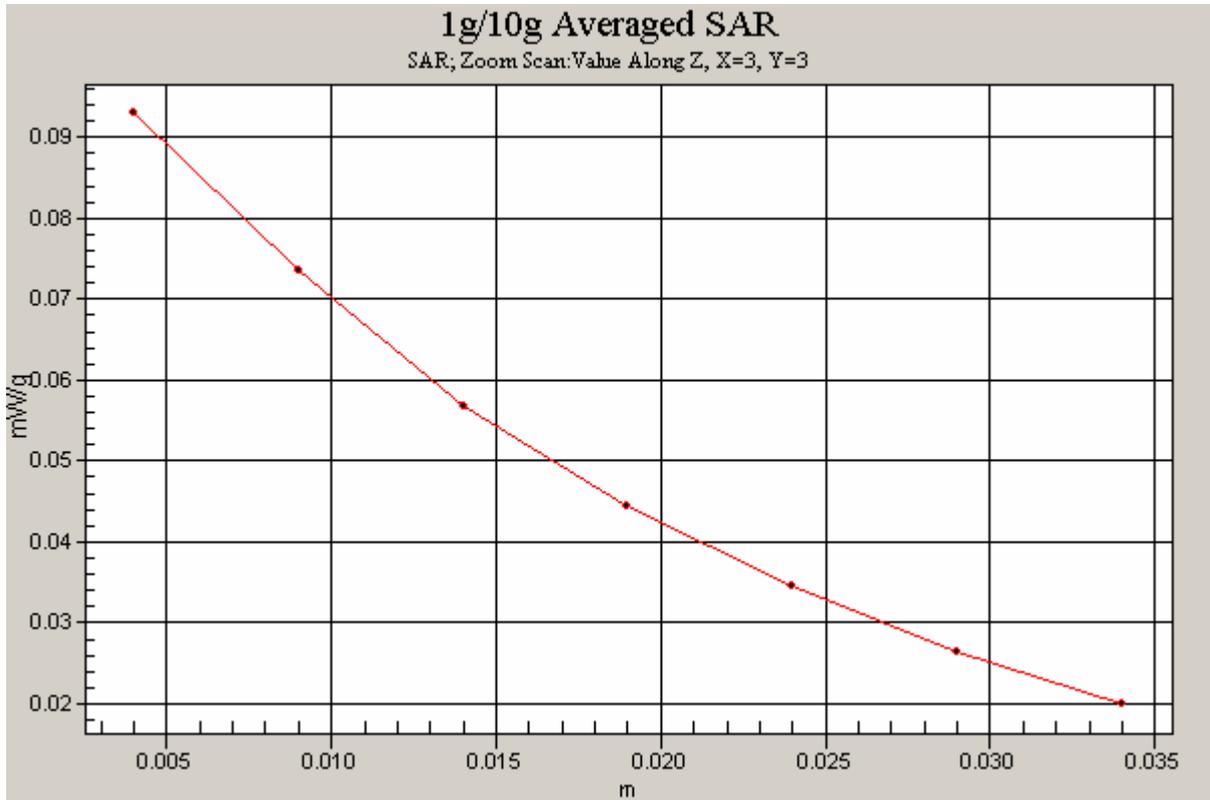


Figure 162 Z-Scan at power reference point (Left Hand Tilt Close WCDMA Band V Channel 4233)

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; $\sigma = 0.919$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Tilt Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.079 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.22 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.095 W/kg

SAR(1 g) = 0.076 mW/g; SAR(10 g) = 0.057 mW/g

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

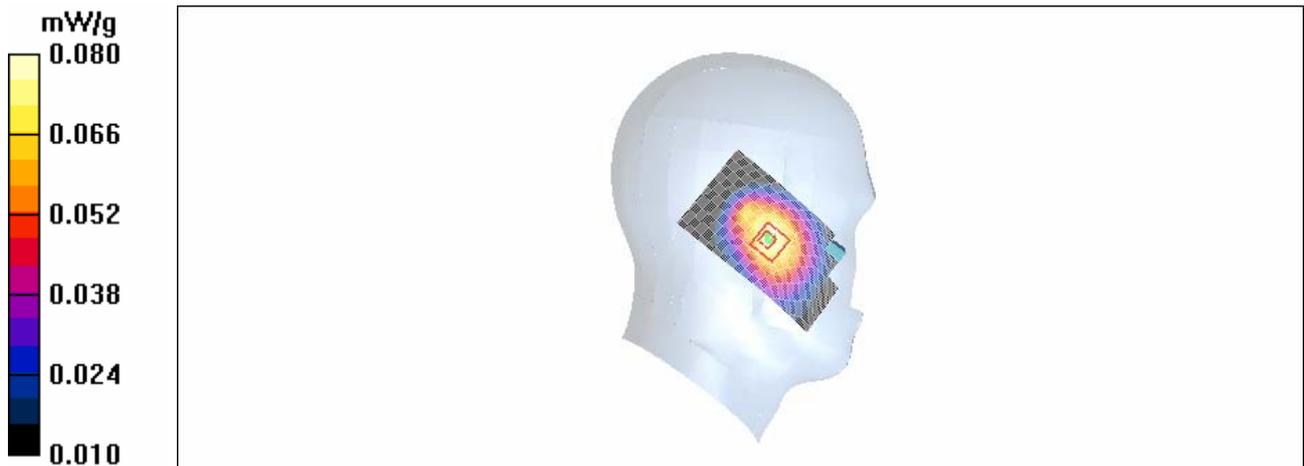


Figure 163 Left Hand Tilt Close WCDMA Band V Channel 4182

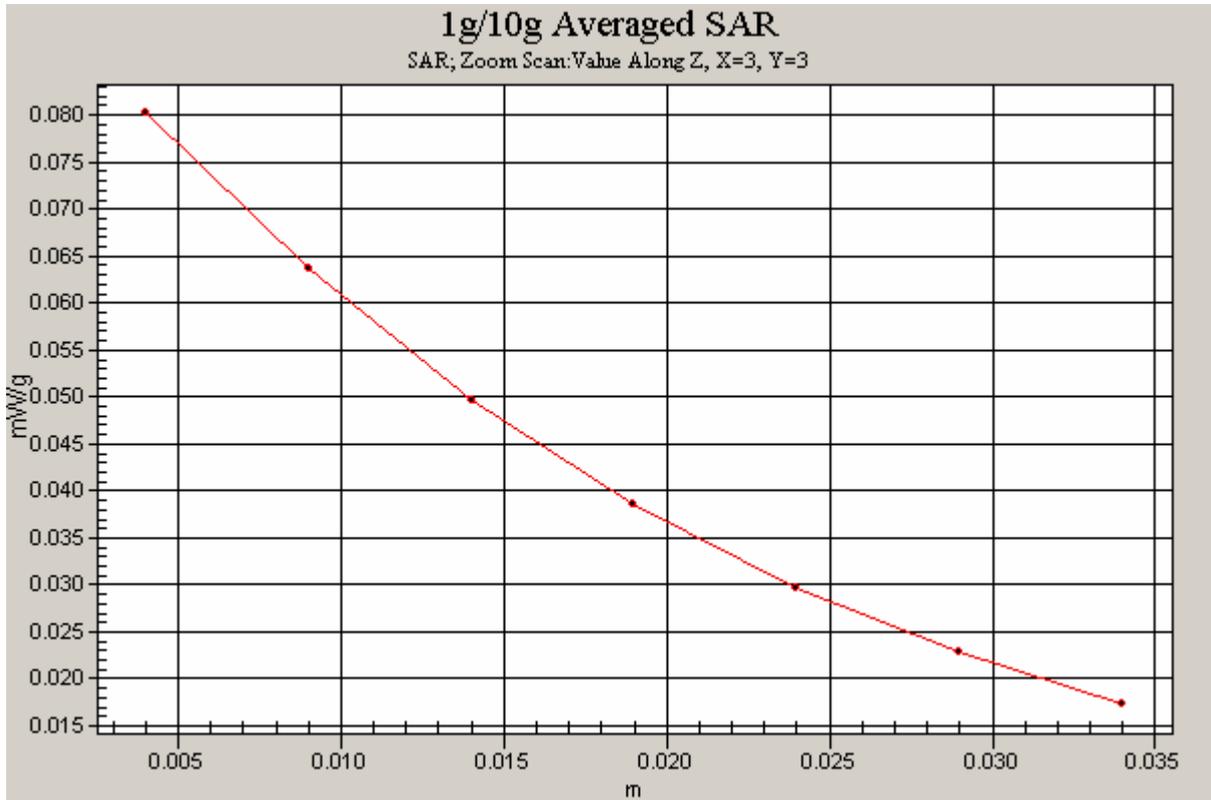


Figure 164 Z-Scan at power reference point (Left Hand Tilt Close WCDMA Band V Channel 4182)

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; $\sigma = 0.906$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Tilt Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.94 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 0.066 W/kg

SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.039 mW/g

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

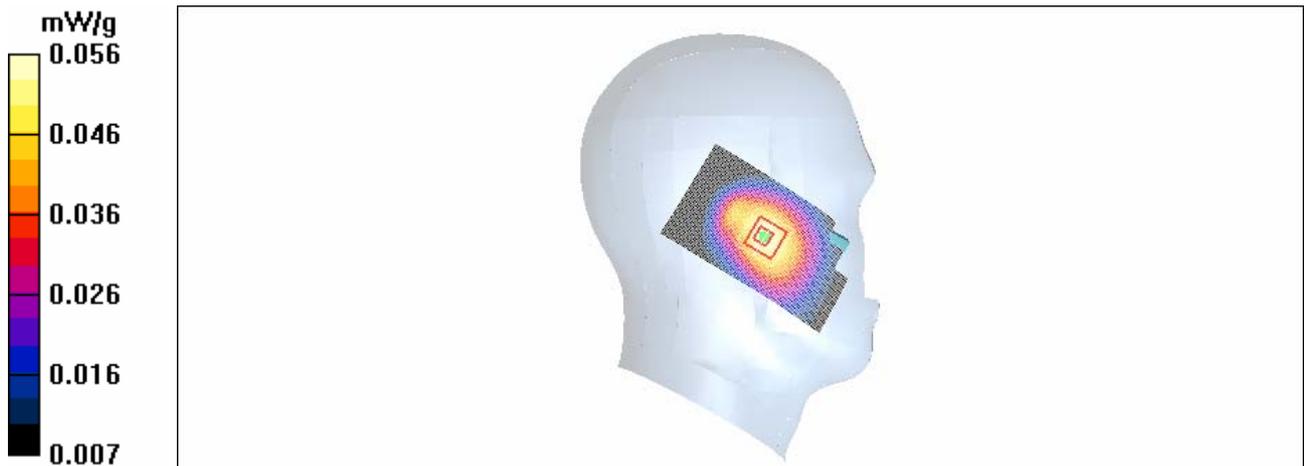


Figure 165 Left Hand Tilt Close WCDMA Band V Channel 4132

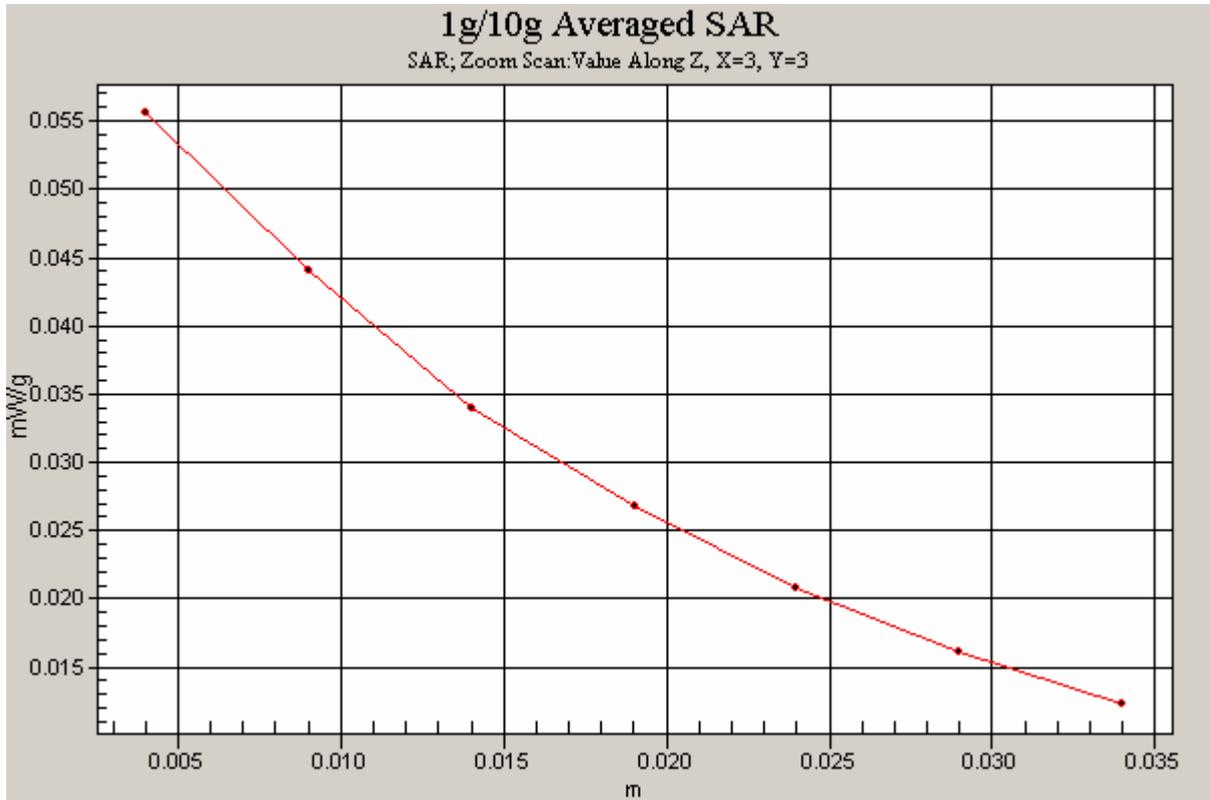


Figure 166 Z-Scan at power reference point (Left Hand Tilt Close WCDMA Band V Channel 4132)

WCDMA Band V Right Cheek High Close

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847$ MHz; $\sigma = 0.931$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE3 Sn452;

Cheek High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.160 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.05 V/m; Power Drift = 0.138 dB
Peak SAR (extrapolated) = 0.216 W/kg
SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.118 mW/g
Maximum value of SAR (measured) = 0.170 mW/g

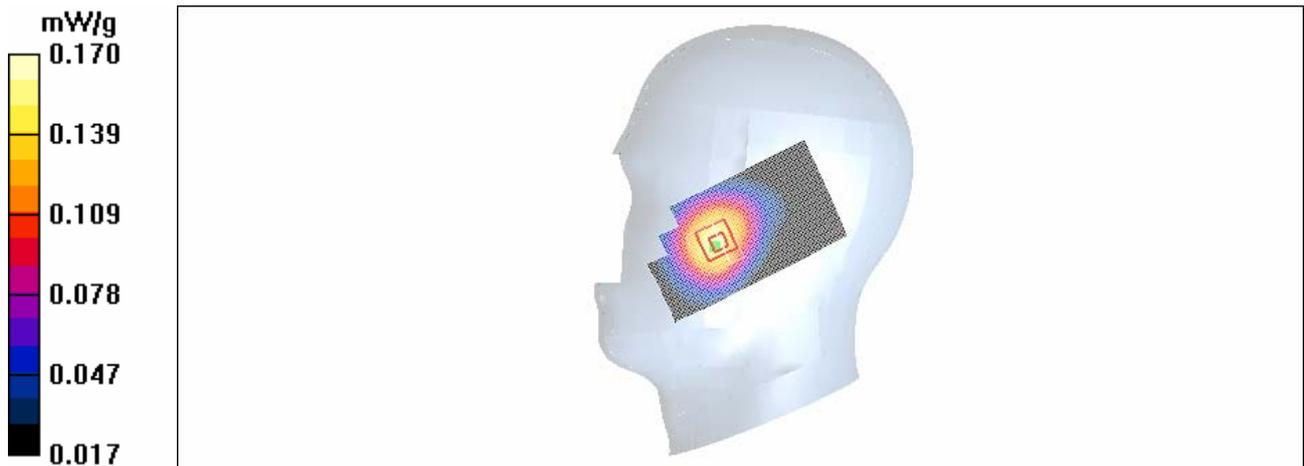


Figure 167 Right Hand Touch Cheek Close WCDMA Band V Channel 4233

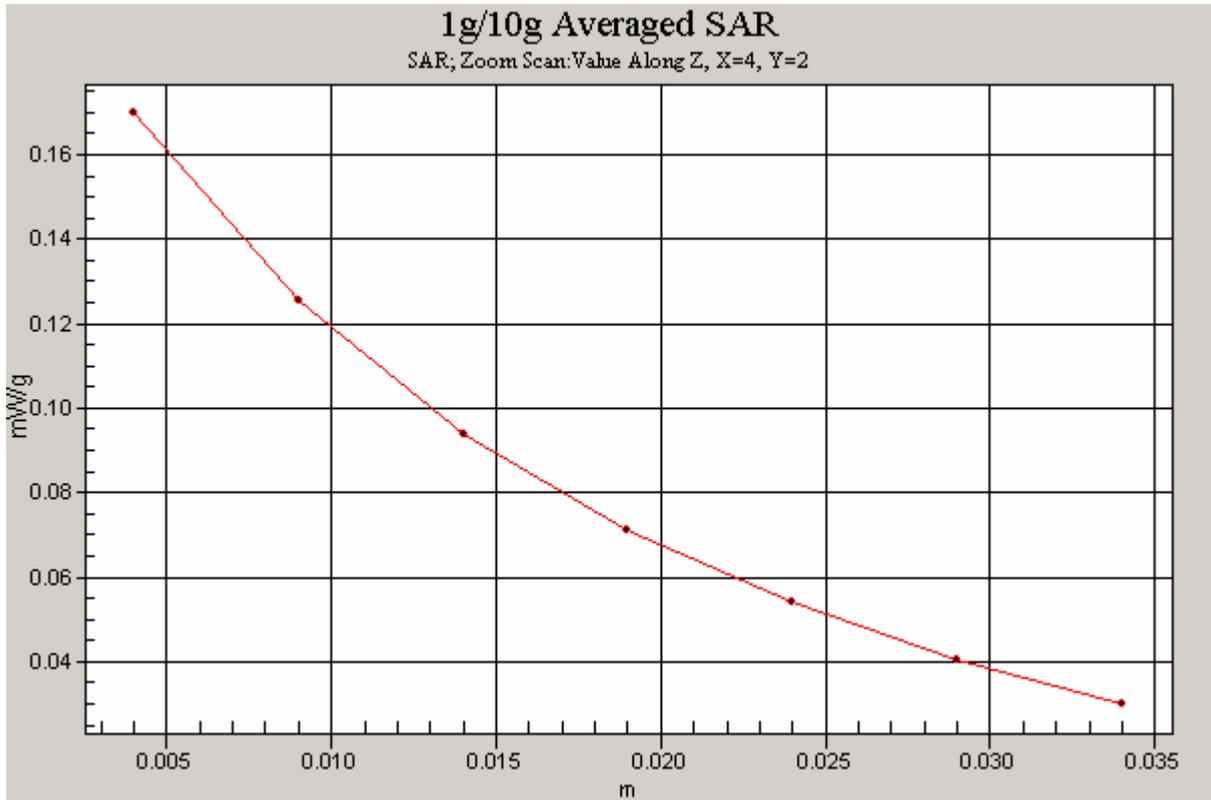


Figure 168 Z-Scan at power reference point (Right Hand Touch Cheek Close WCDMA Band V Channel 4233)

WCDMA Band V Right Cheek Middle Close

Communication System: WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.919$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Cheek Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.153 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.03 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.155 mW/g

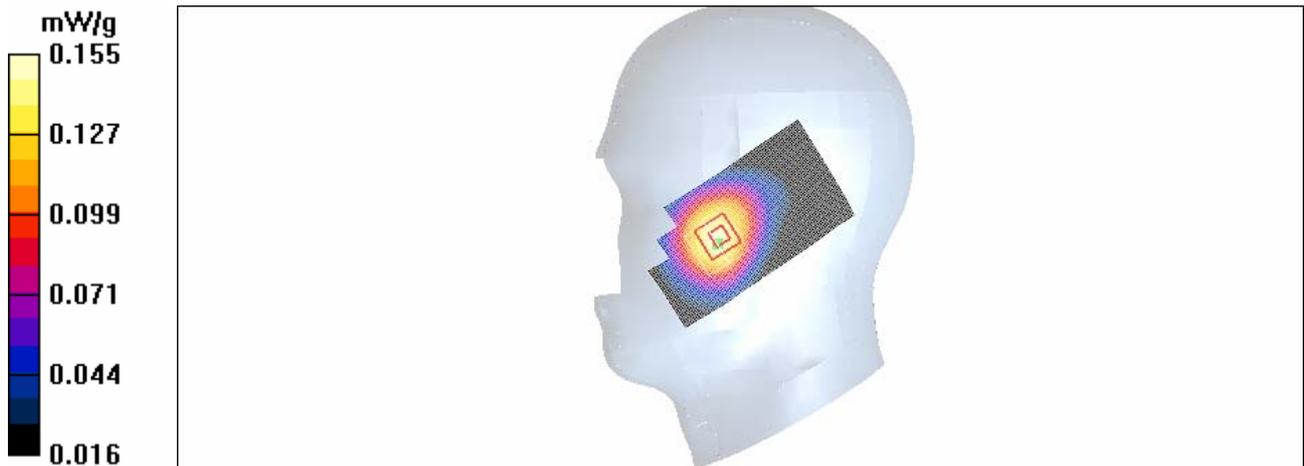


Figure 169 Right Hand Touch Cheek Close WCDMA Band V Channel 4182

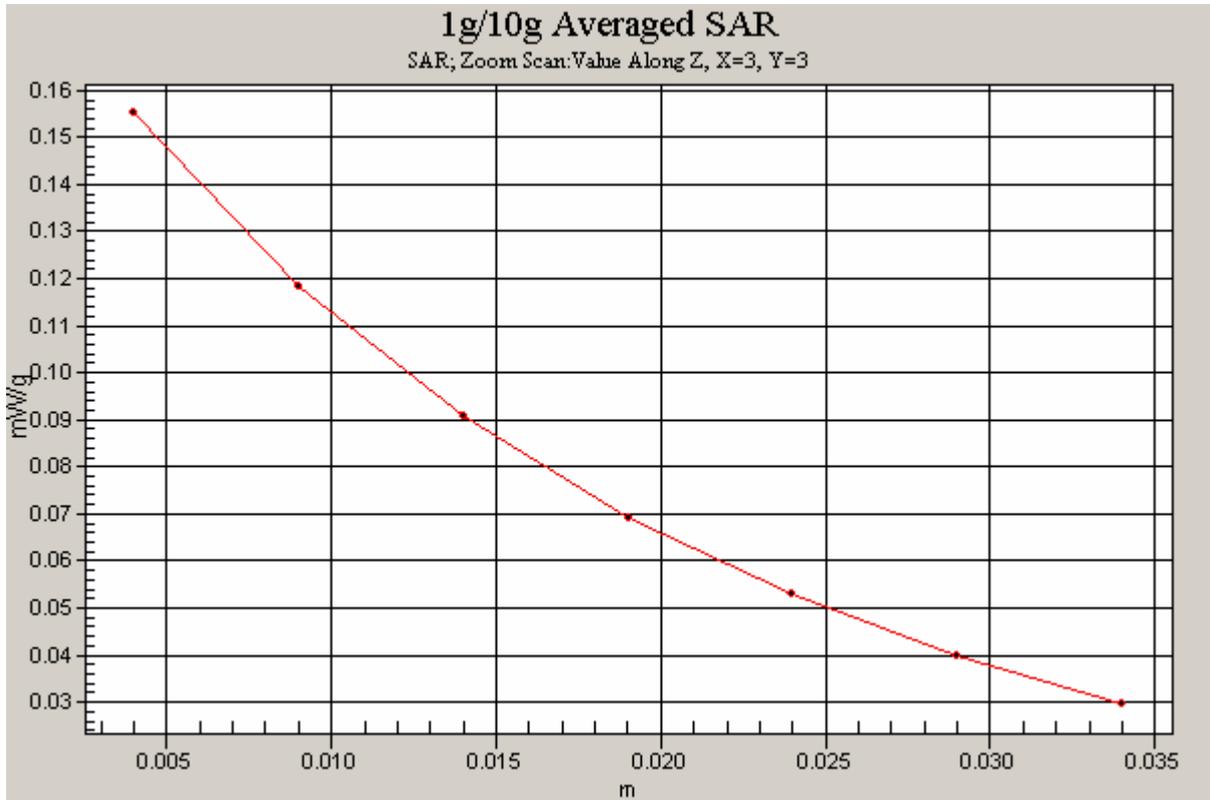


Figure 170 Z-Scan at power reference point (Right Hand Touch Cheek Close WCDMA Band V Channel 4182)

WCDMA Band V Right Cheek Low Close

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.906$ mho/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Cheek Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.098 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.20 V/m; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 0.117 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.066 mW/g.

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

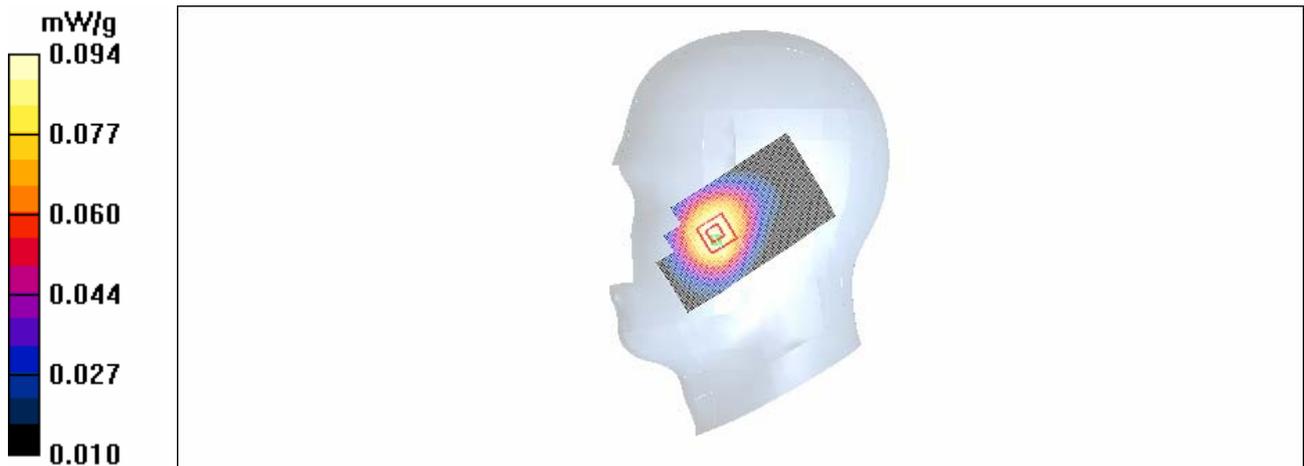


Figure 171 Right Hand Touch Cheek Close WCDMA Band V Channel 4132

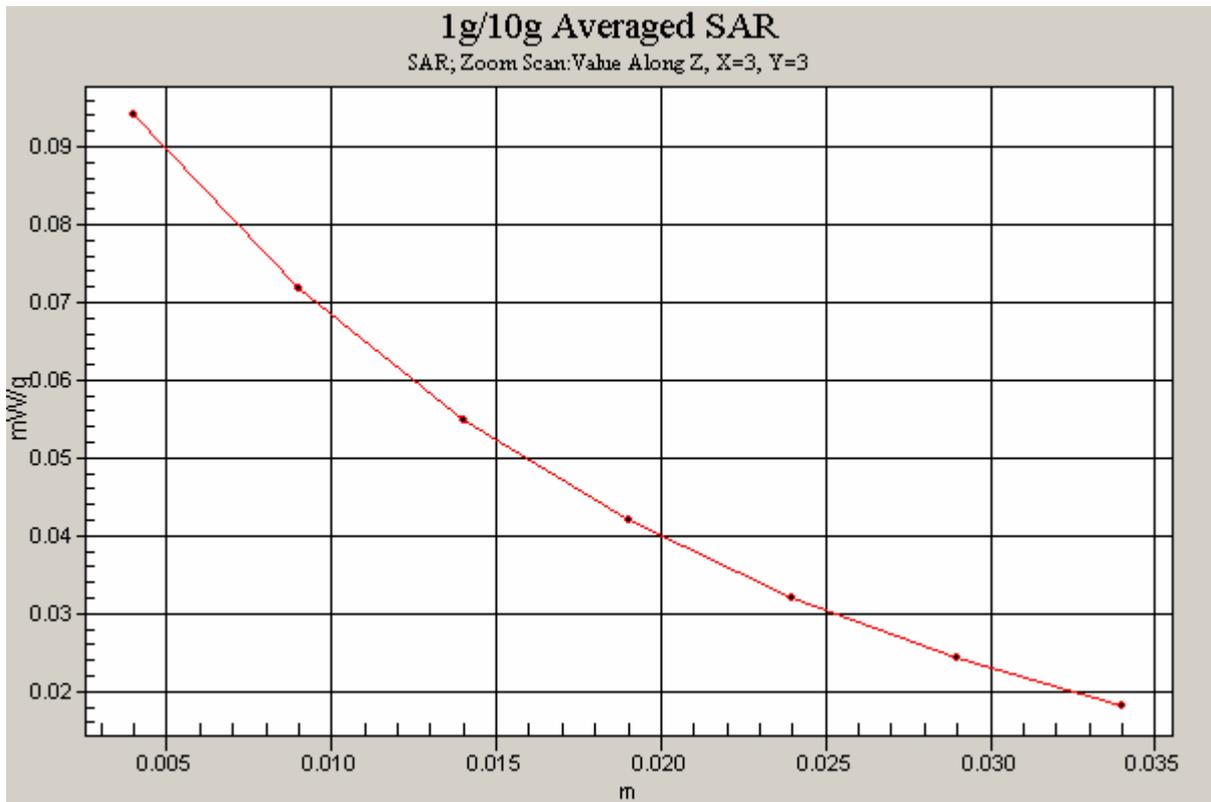


Figure 172 Z-Scan at power reference point (Right Hand Touch Cheek Close WCDMA Band V Channel 4132)

WCDMA Band V Right Tilt High Close

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 847$ MHz; $\sigma = 0.931$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE3 Sn452;

Tilt High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.105 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.63 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 0.129 W/kg

SAR(1 g) = 0.103 mW/g; SAR(10 g) = 0.075 mW/g

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

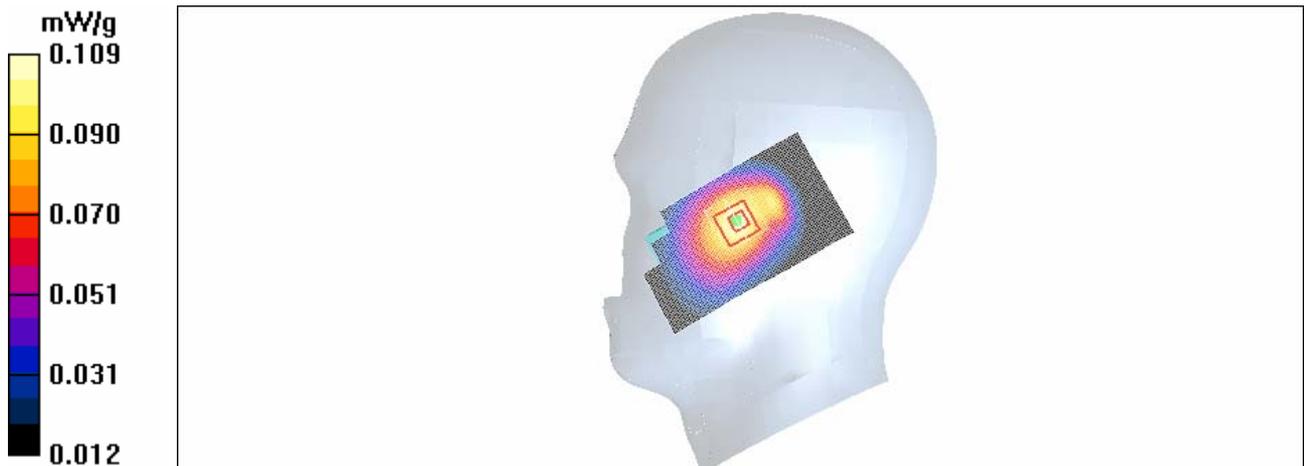


Figure 173 Right Hand Tilt Close WCDMA Band V Channel 4233