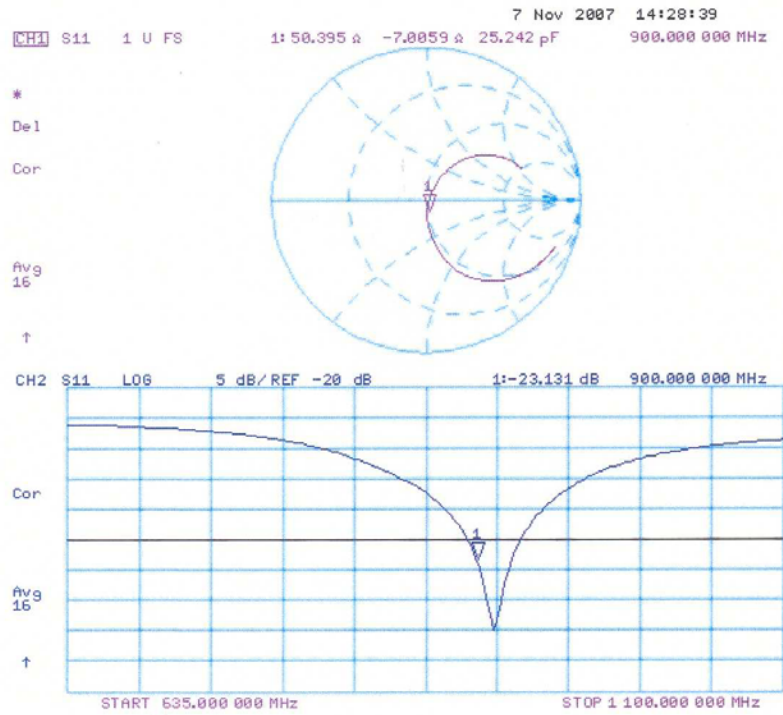


Impedance Measurement Plot for Head TSL



NCL CALIBRATION LABORATORIES

Calibration File No: DC-712
Project Number: BACB-CAL-D-1800-5248

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the **NCL CALIBRATION LABORATORIES** by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

BACL Validation Dipole

Manufacturer: APREL Laboratories

Part number: D-1800-S-1

Frequency: 1800 MHz

Serial No: BCL-049

Customer: Bay Area Compliance Laboratory

Calibrated: 25th August 2006
Released on: 28th August 2006

Released By: _____



NCL CALIBRATION LABORATORIES

51 SPECTRUM WAY
NEPEAN, ONTARIO
CANADA K2R 1E6

Division of APREL Lab.
TEL: (613) 820-4988
FAX: (613) 820-4162

NCL Calibration Laboratories

Division of APREL Laboratories.

Conditions

Dipole BCL-049 received from customer, with the attribute of having a repair to one radial arm, in good condition for re-calibration. SMA connector cleaned prior to calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C

Temperature of the Tissue: 21 °C +/- 0.5°C

We the undersigned attest that to the best of our knowledge the calibration of this device has been accurately conducted and that all information contained within this report has been reviewed for accuracy.



D. Brooks
Member of Engineering Staff
(Calibration Engineer)

This page has been reviewed for content and attested to by signature within this document.

NCL Calibration Laboratories

Division of APREL Laboratories.

Calibration Results Summary

The following results relate the Calibrated Dipole and should be used as a quick reference for the user.

Mechanical Dimensions

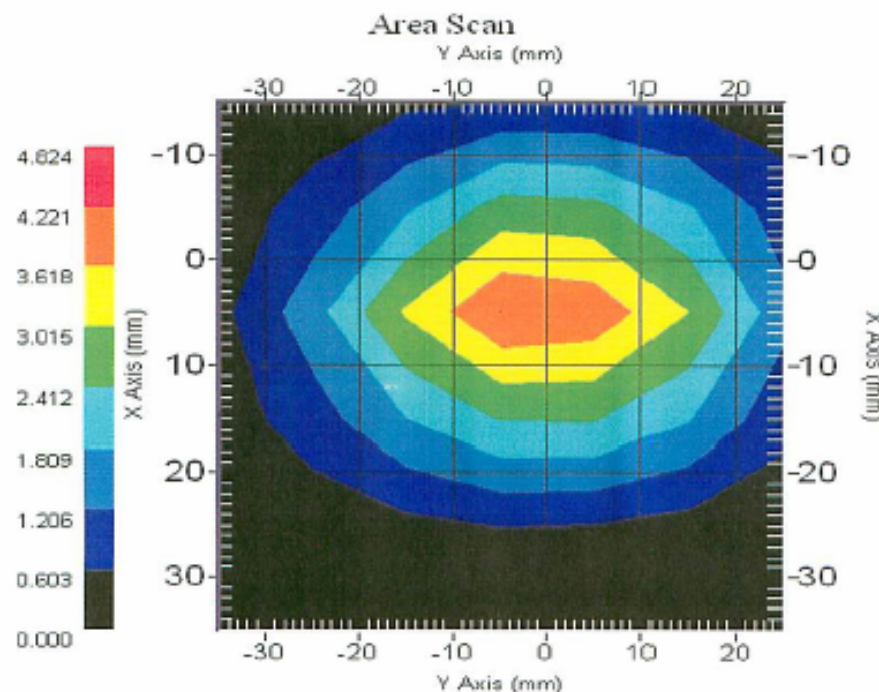
Length: 72.0 mm
Height: 41.7 mm

Electrical Specification

SWR: 1.072 U
Return Loss: -29.07 dB
Impedance: 50.62 Ω

System Validation Results

Frequency	1 Gram	10 Gram	Peak
1800 MHz	38.81	20.01	71.56



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NCL Calibration Laboratories

Division of APREL Laboratories.

Introduction

This Calibration Report has been produced in line with the SSI Dipole Calibration Procedure SSI-TP-018-ALSAS. The results contained within this report are for Validation Dipole BCL-049. The calibration routine consisted of a three-step process. Step 1 was a mechanical verification of the dipole to ensure that it meets the mechanical specifications. Step 2 was an Electrical Calibration for the Validation Dipole, where the SWR, Impedance, and the Return loss were assessed. Step 3 involved a System Validation using the ALSAS-10U, along with APREL E-020 130 MHz to 26 GHz E-Field Probe Serial Number 212.

References

SSI-TP-018-ALSAS Dipole Calibration Procedure

SSI-TP-016 Tissue Calibration Procedure

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

Conditions

Dipole BCL-049 received from customer in good condition, with the attribute of a repair of one radial arm.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C**Temperature of the Tissue:** 20 °C +/- 0.5°C

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NCL Calibration Laboratories

Division of APREL Laboratories.

Dipole Calibration Results**Mechanical Verification**

APREL Length	APREL Height	Measured Length	Measured Height
72.0 mm	41.7 mm	71.6 mm	41.7 mm

Tissue Validation

Head Tissue 1800 MHz	Measured
Dielectric constant, ϵ_r	40.0
Conductivity, σ [S/m]	1.40

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NCL Calibration Laboratories

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Electrical Calibration

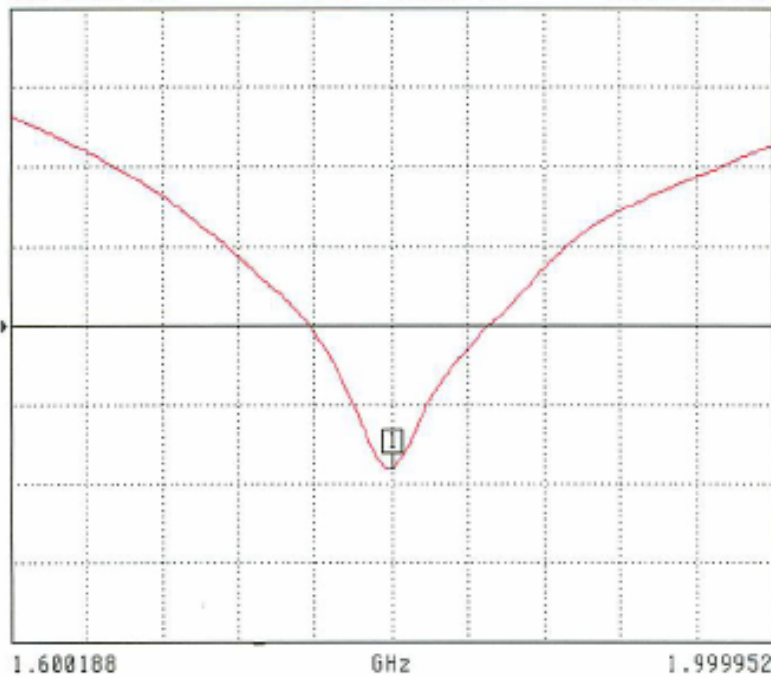
Test	Result
S11 R/L	-29.07 dB
SWR	1.072 U
Impedance	50.62 Ω

The Following Graphs are the results as displayed on the Vector Network Analyzer.

S11 Parameter Return Loss

S22 REVERSE REFLECTION

LOG MAGNITUDE REF=-20.000 dB 5.000 dB/DIV



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NCL Calibration Laboratories

Division of APREL Laboratories.

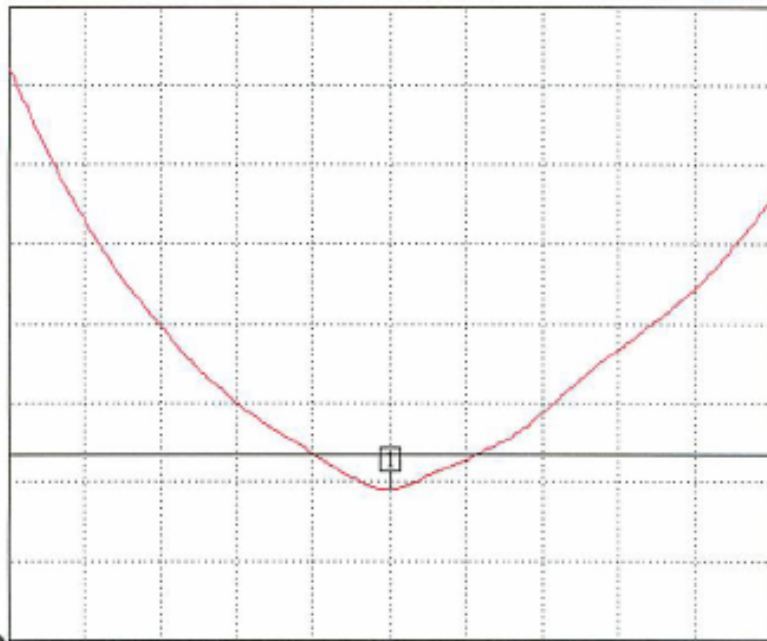
SWR

S22 REVERSE REFLECTION

SWR

REF=500.000 nU

300.000 nU/DIV



CH 4 - S22
REFERENCE PLANE
0.0000 mm

MARKER 1
1.800070 GHz
1.072 U

MARKER TO MAX
▶ MARKER TO MIN

MARKER READOUT
FUNCTIONS

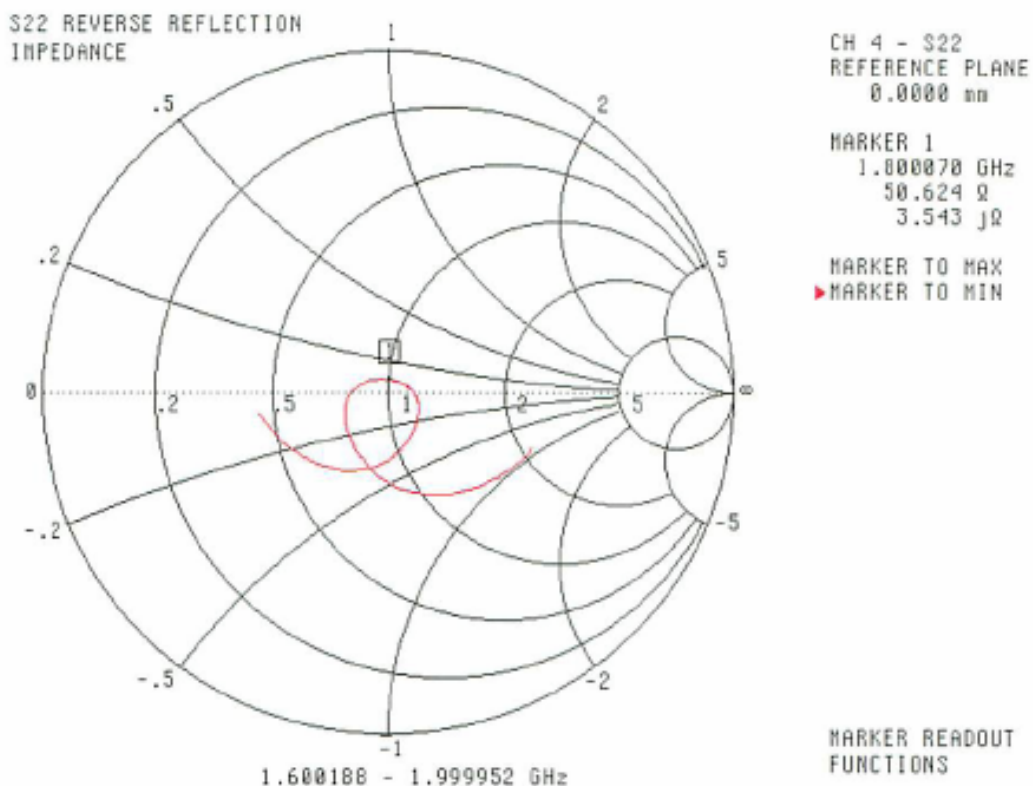
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NCL Calibration Laboratories

Division of APREL Laboratories.

Smith Chart Dipole Impedance



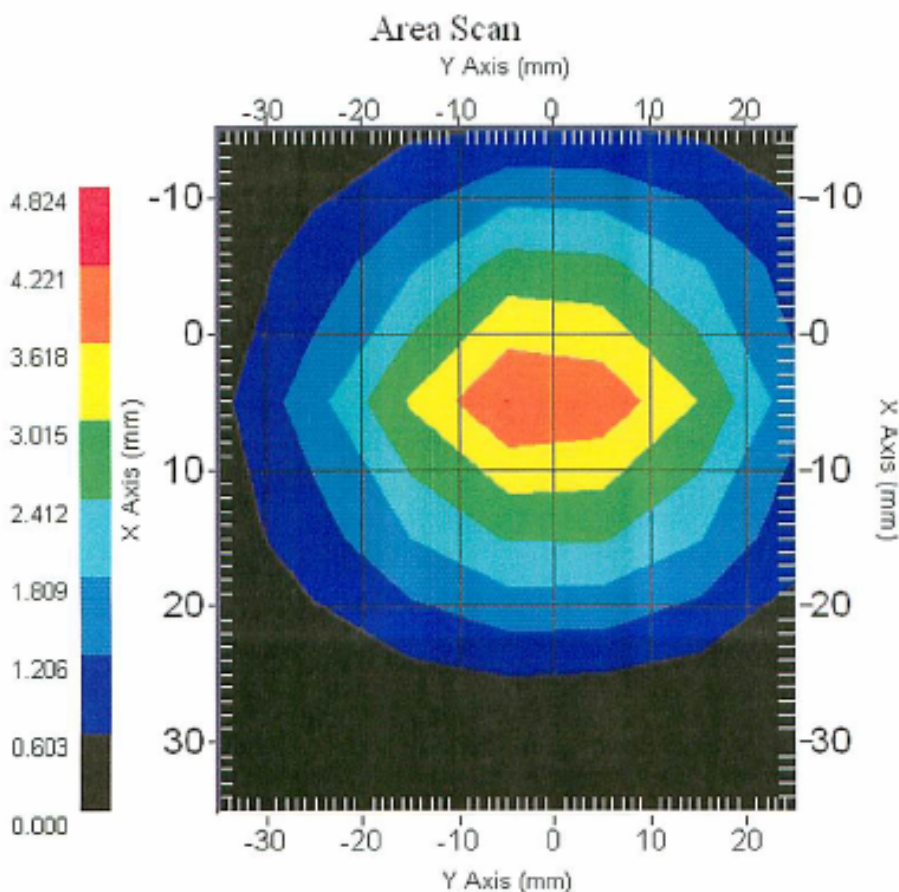
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NCL Calibration Laboratories

Division of APREL Laboratories.

System Validation Results Using the Electrically Calibrated Dipole

Head Tissue Frequency	1 Gram	10 Gram	Peak Above Feed Point
1800 MHz	38.81	20.01	71.56



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NCL Calibration Laboratories

Division of APREL Laboratories.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List

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APPENDIX D - TEST SYSTEM VERIFICATIONS SCANS

Liquid Measurement Result

Testing was performed by Victor Zhang on 2008-2-22.

Simulant	Freq [MHz]	Parameters	Liquid Temp [°C]	Target Value	Measured Value	Deviation [%]	Limits [%]
Head	835	ϵ_r	22	41.5	41.5	0	±5
		σ	22	0.90	0.89	-1.11	±5
		1g SAR	22	9.5	10.2	7.4	±10
Head	1900	ϵ_r	22	40.0	39.9	-0.25	±5
		σ	22	1.40	1.38	-1.43	±5
		1g SAR	22	39.7	42.2	6.30	±10

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

System Performance Test

Dipole Antenna 900 MHz; Type: D900V2; SN: 122

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 41.5$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

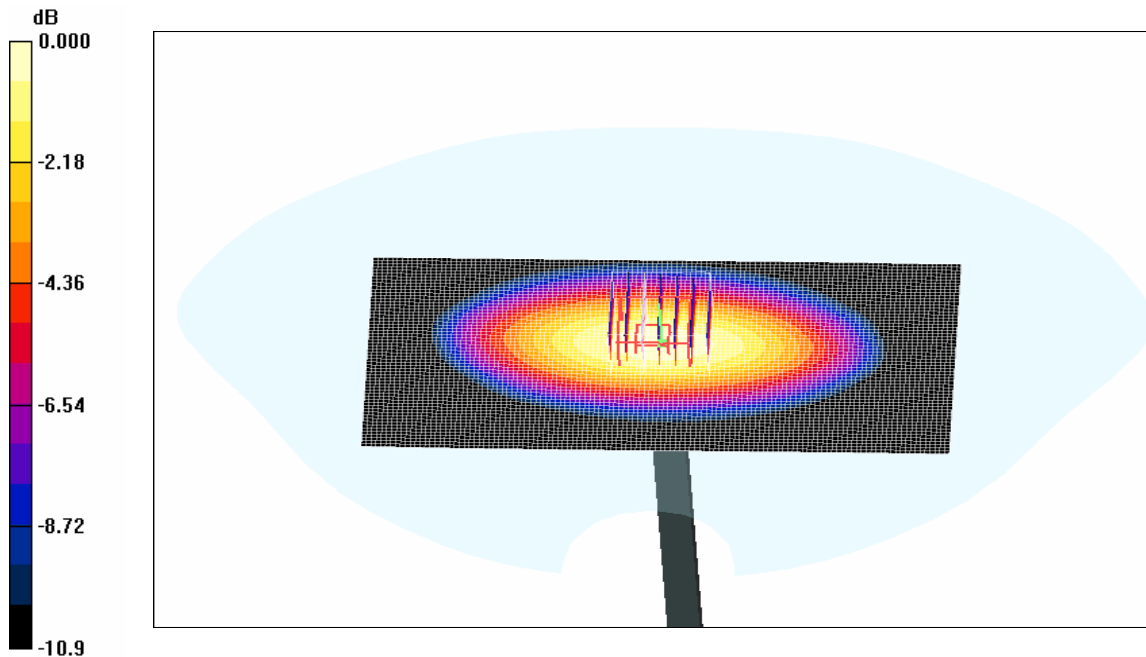
DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

d=15mm, Pin=0.5W/Area Scan (61x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 5.72 mW/g

d=15mm, Pin=0.5W/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 86.5 V/m; Power Drift = -0.09 dB
 Peak SAR (extrapolated) = 8.03 W/kg

SAR(1 g) = 5.1 mW/g; SAR(10 g) = 3.2 mW/g
 Maximum value of SAR (measured) = 5.87 mW/g



0dB = 5.87 mW/g

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

System Performance Test

Dipole Antenna 1800 MHz; Type: D-1800-S-1; SN: BCL-049

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

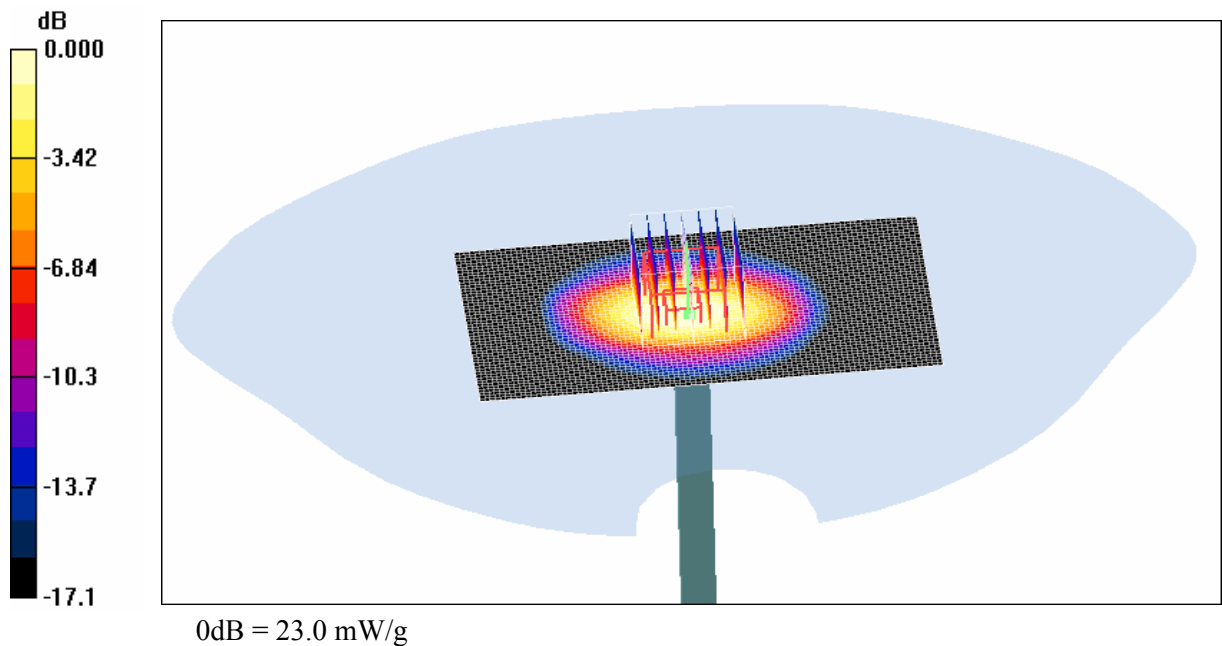
DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

d =10 mm, Pin = 0.5W/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 26.5 mW/g

d =10 mm, Pin = 0.5W/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 137.5 V/m; Power Drift = -0.016 dB
 Peak SAR (extrapolated) = 36.2 W/kg

SAR(1 g) = 21.1 mW/g; SAR(10 g) = 11.0 mW/g
 Maximum value of SAR (measured) = 23.0 mW/g



APPENDIX E - EUT SCAN RESULTS

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

1.5 cm separation to the flat phantom with headset (Middle Channel)

Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.47, 6.47, 6.47); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

1.5 cm separation to the flat phantom with headset/Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.168 mW/g

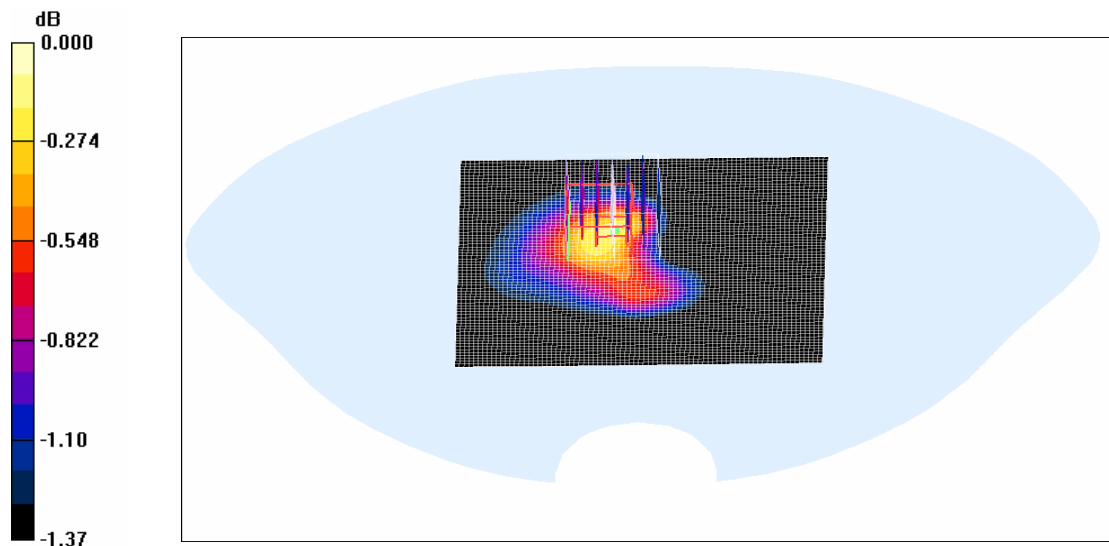
1.5 cm separation to the flat phantom with headset/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 0.175 W/kg

SAR(1 g) = 0.158 mW/g; SAR(10 g) = 0.143 mW/g

Maximum value of SAR (measured) = 0.162 mW/g



0dB = 0.162 mW/g **Plot 1#**

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Left Head Cheek (Low Channel)

Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Left Head Touch/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.906 mW/g

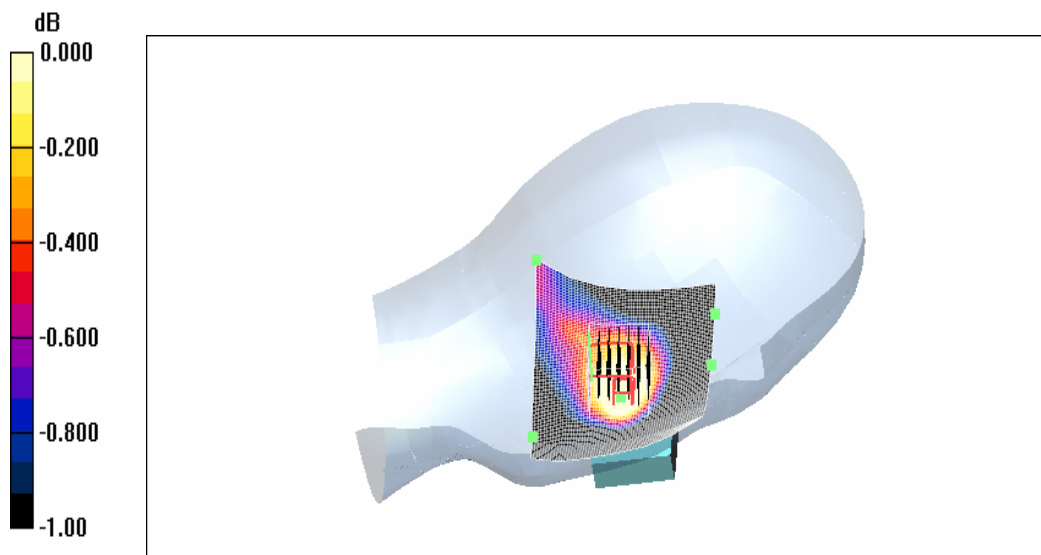
Left Head Touch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.2 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.875 mW/g; SAR(10 g) = 0.499 mW/g

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



0dB = 0.884 mW/g

Plot 2#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**Left Head Cheek (Middle Channel)****Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Left Head Cheek/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.941 mW/g

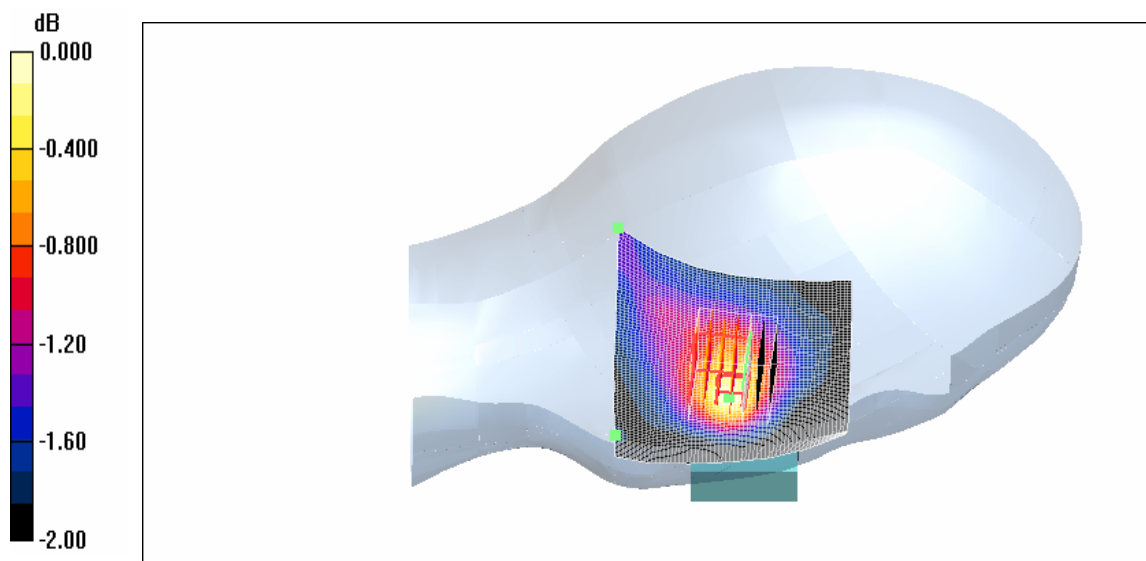
Left Head Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 30.6 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.925 mW/g; SAR(10 g) = 0.533 mW/g

Maximum value of SAR (measured) = 0.931 mW/g



0dB = 0.931 mW/g

Plot 3#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**Left Head Cheek (High Channel)****Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Left Head Cheek/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.833 mW/g

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

Reference Value = 29.5 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.824 mW/g; SAR(10 g) = 0.414 mW/g

Maximum value of SAR (measured) = 0.831 mW/g



0dB = 0.831 mW/g

Plot 4#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Left Head Tilt (Low Channel)

Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Left Head Tilt/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.456 mW/g

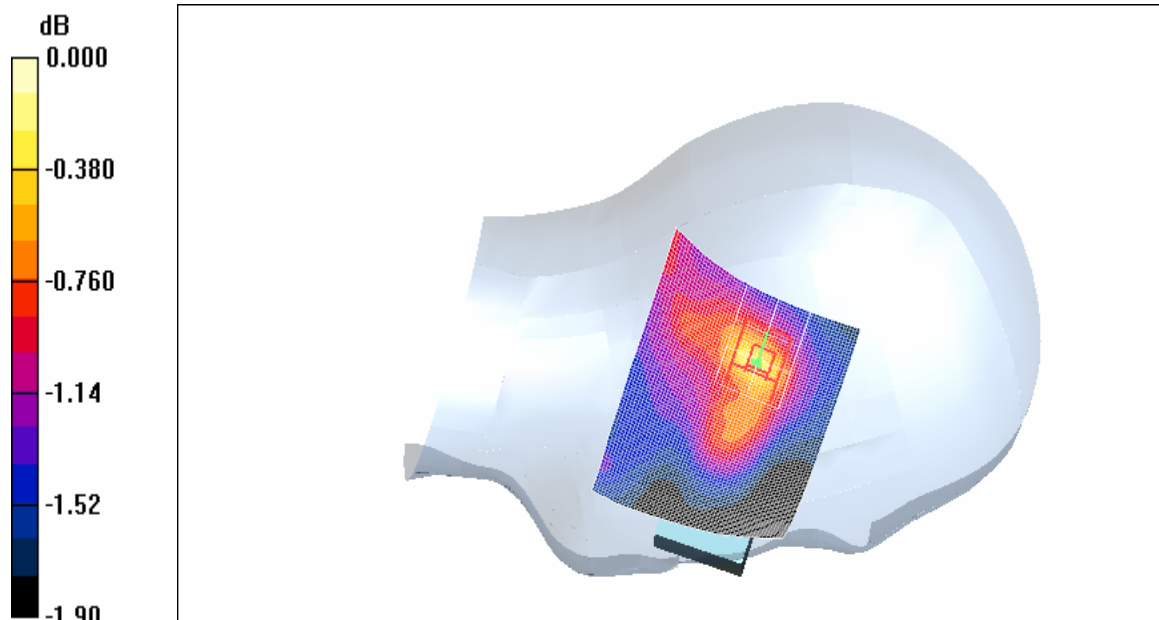
Left Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.5 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.498 W/kg

SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.243 mW/g

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



Plot 5#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Left Head Tilt (Middle Channel)

Mobicom Corp. ; Type: Plus II; Serial: GP01JA23AA0042

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Left Head Tilt/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.534 mW/g

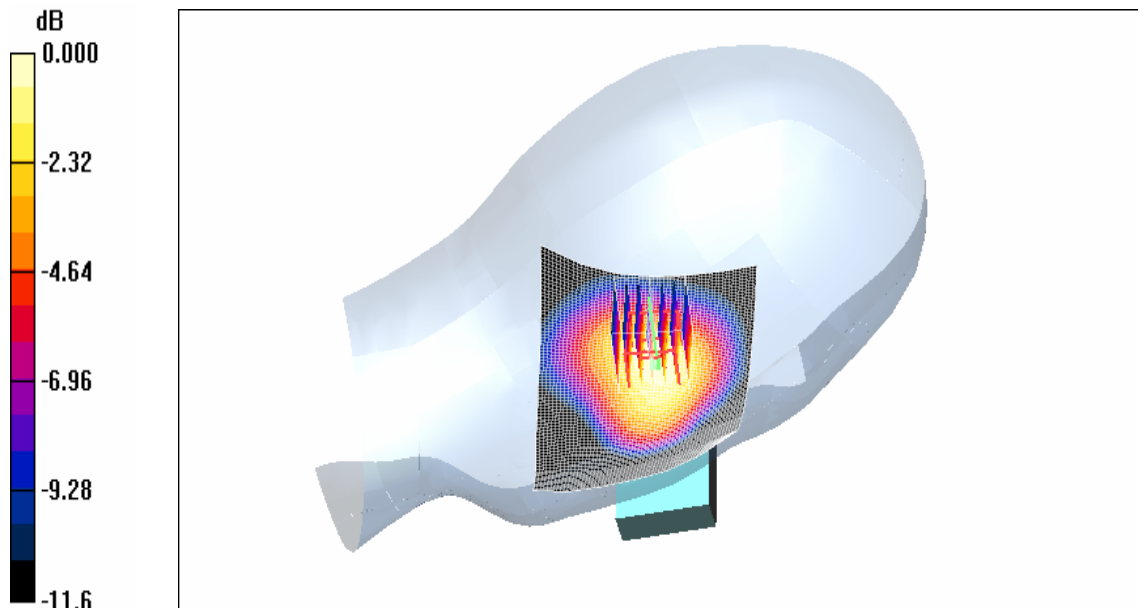
Left Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.4 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.535 W/kg

SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.395 mW/g

Maximum value of SAR (measured) = 0.532 mW/g



Plot 6#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Left Head Tilt (High Channel)

Mobicom Corp. ; Type: Plus II; Serial: GP01JA23AA0042

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 41.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Left Head Tilt/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.416 mW/g

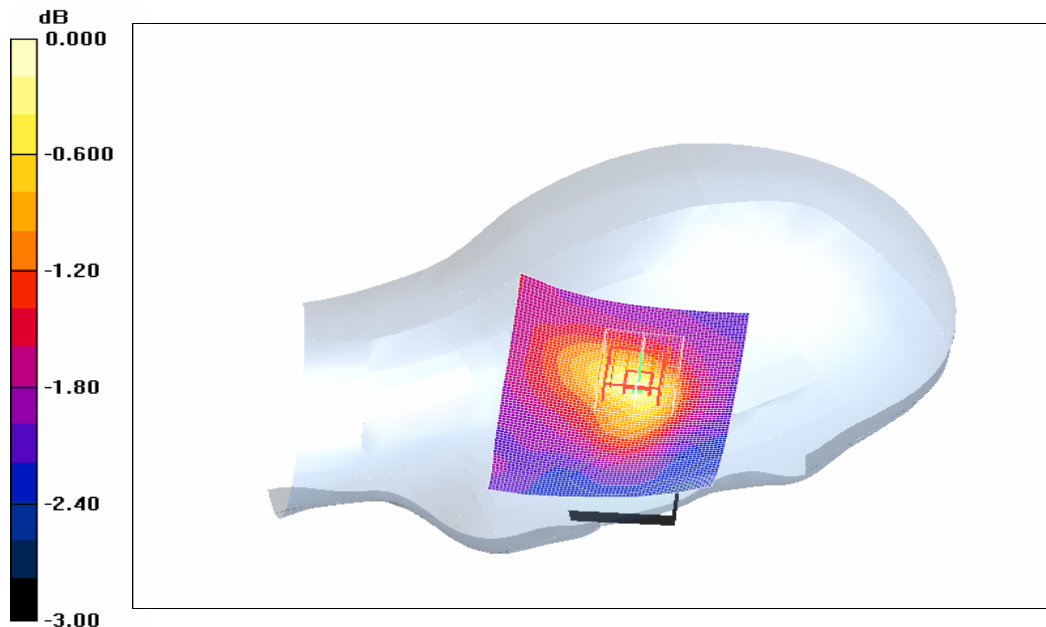
Left Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.2 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.457 W/kg

SAR(1 g) = 0.420 mW/g; SAR(10 g) = 0.368 mW/g

Maximum value of SAR (measured) = 0.434 mW/g



Plot 7#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**Right Head Cheek (Low Channel)****Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Right Head Cheek/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.764 mW/g

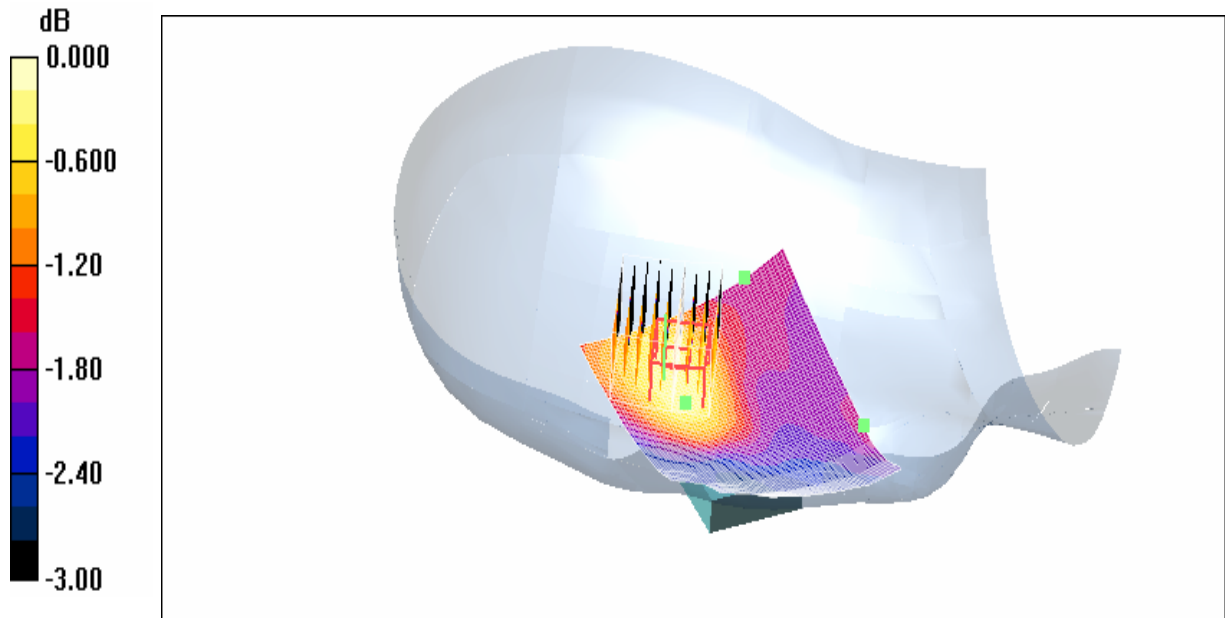
Right Head Cheek/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.4 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.775 W/kg

SAR(1 g) = 0.757 mW/g; SAR(10 g) = 0.698 mW/g

Maximum value of SAR (measured) = 0.743 mW/g



0dB = 0.743 mW/g

Plot 8#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Right Head Cheek (Middle Channel)

Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 41.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Right Head Cheek/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.725 mW/g

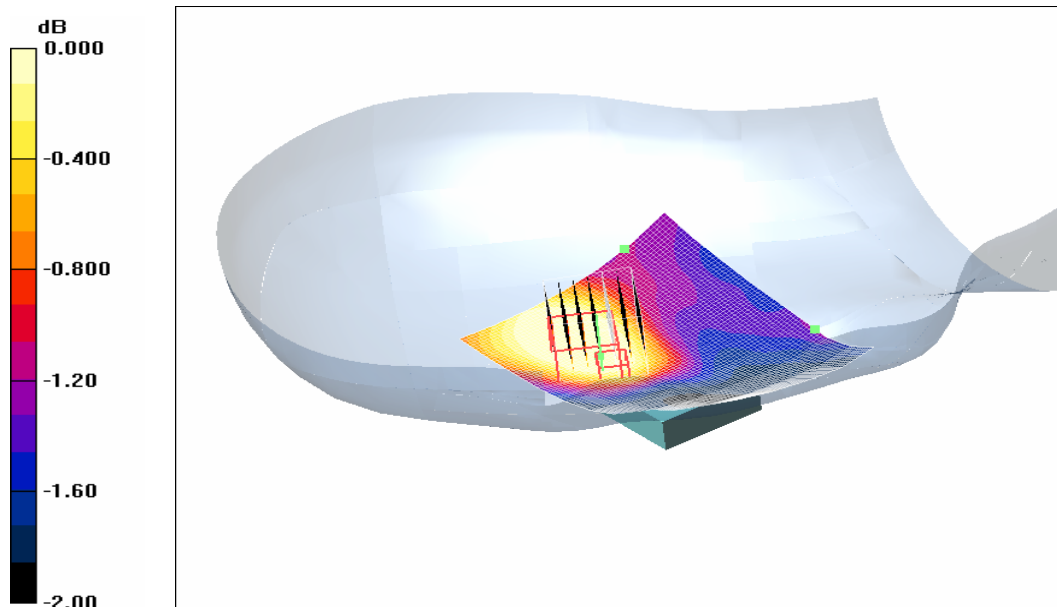
Right Head Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.8 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.812 mW/g; SAR(10 g) = 0.708 mW/g

Maximum value of SAR (measured) = 0.713 mW/g



0dB = 0.713 mW/g

Plot 9#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**Right Head Cheek (High Channel)****Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Right Head Cheek/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.686 mW/g

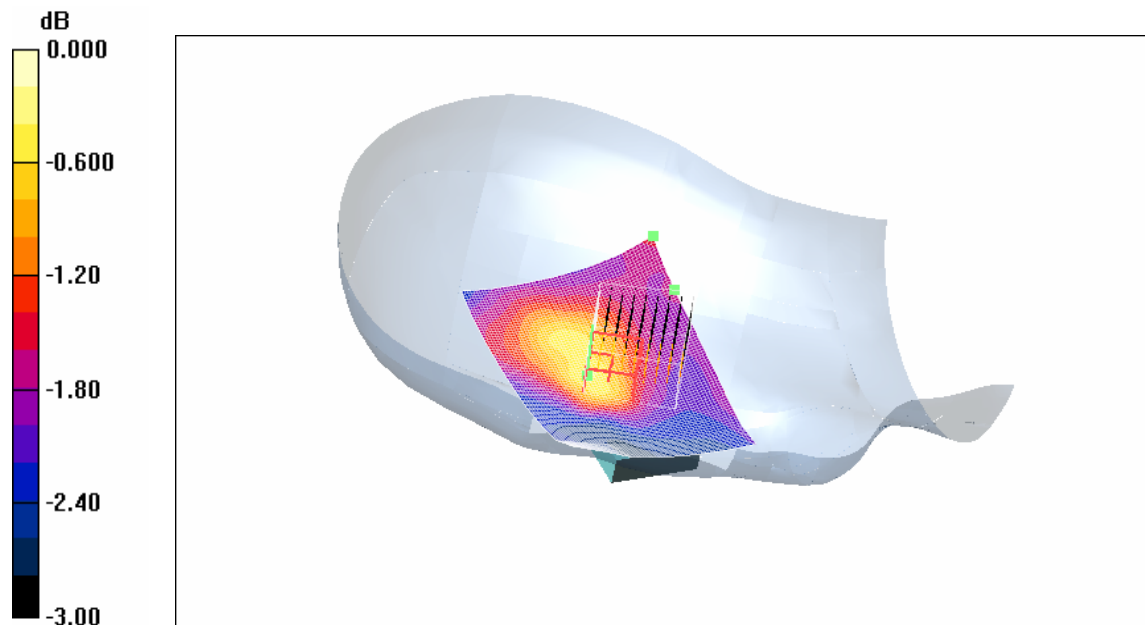
Right Head Cheek/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.8 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.796 W/kg

SAR(1 g) = 0.774 mW/g; SAR(10 g) = 0.626 mW/g

Maximum value of SAR (measured) = 0.744 mW/g



0dB = 0.744 mW/g

Plot 10#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**Right Head Tilt (Low Channel)****Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

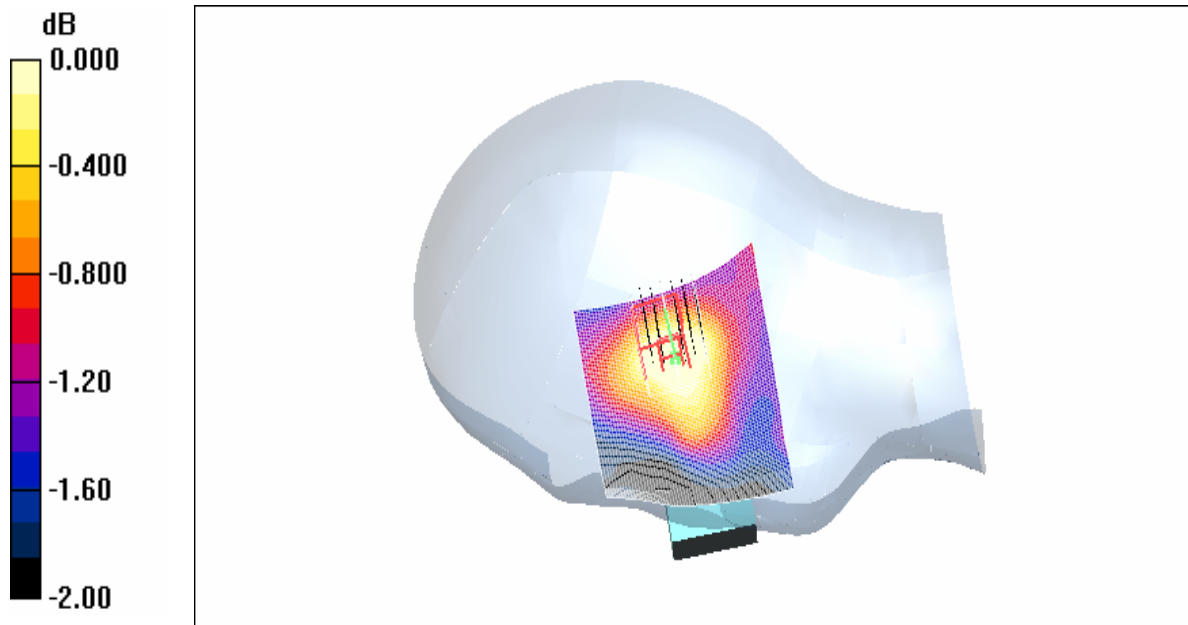
DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Right Head Tilt (Low Channel)/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.439 mW/g

Right Head Tilt (Low Channel)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 22.4 V/m; Power Drift = -0.039 dB
 Peak SAR (extrapolated) = 0.441 W/kg

SAR(1 g) = 0.434 mW/g; SAR(10 g) = 0.372 mW/g
 Maximum value of SAR (measured) = 0.437 mW/g



0dB = 0.437 mW/g

Plot 11#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Right Head Tilt (Middle Channel)

Mobicom Corp. ; Type: Plus II; Serial: GP01JA23AA0042

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Right Head Tilt (Middle Channel)/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.461 mW/g

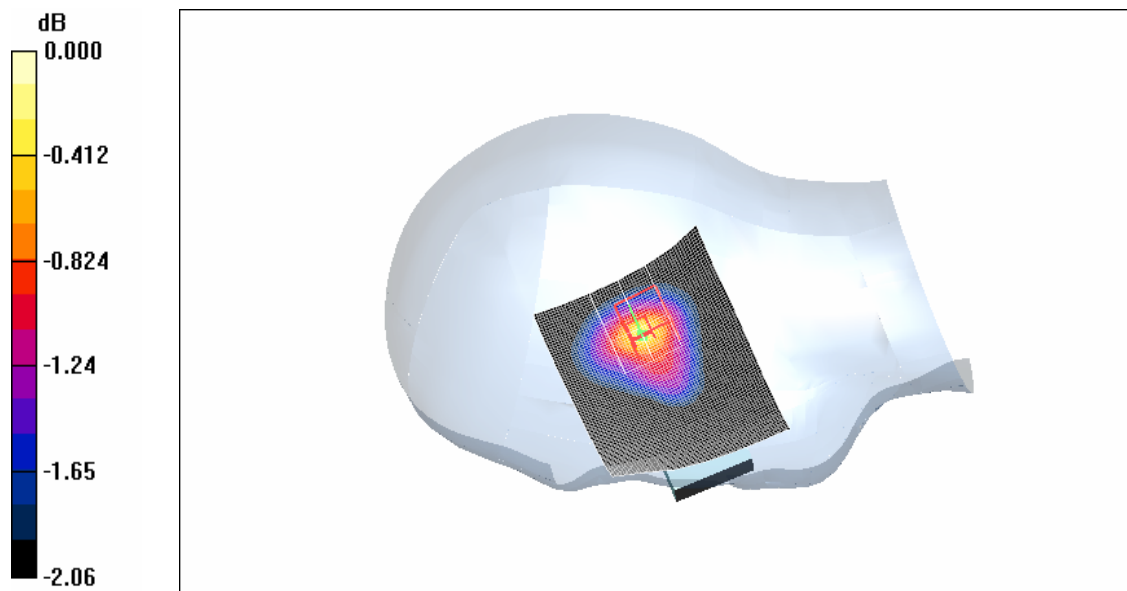
Right Head Tilt (Middle Channel)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.0 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 0.455 W/kg

SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.383 mW/g

Maximum value of SAR (measured) = 0.456 mW/g



Plot 12#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**Right Head Tilt (High Channel)****Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.82, 6.82, 6.82); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Right Head Tilt/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.431 mW/g

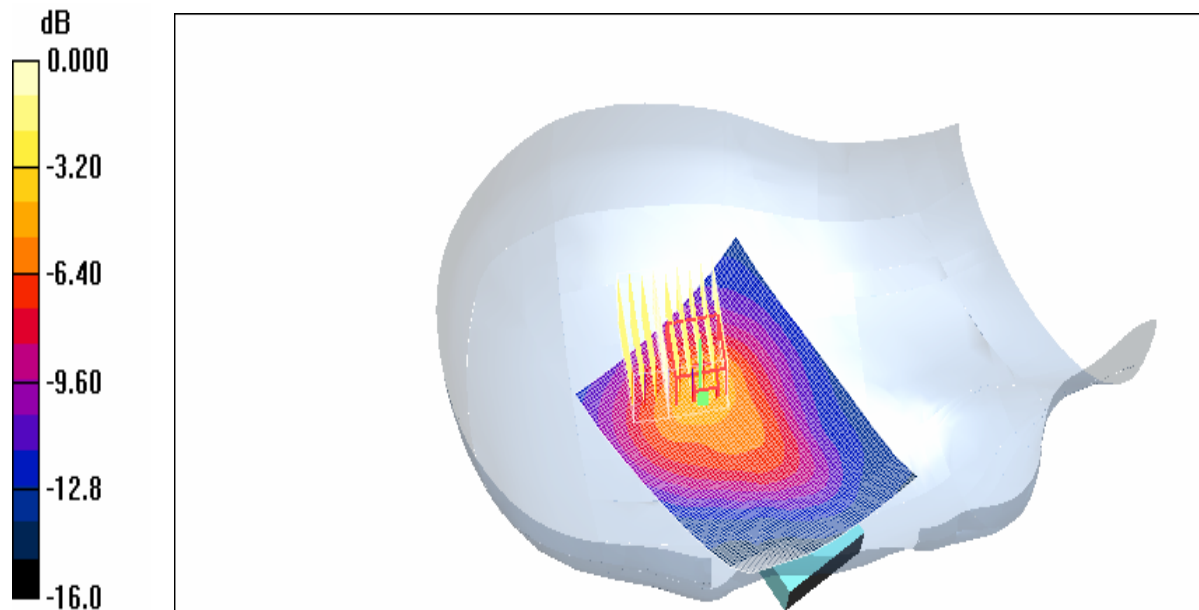
Right Head Tilt/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.5 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.429 W/kg

SAR(1 g) = 0.420 mW/g; SAR(10 g) = 0.344 mW/g

Maximum value of SAR (measured) = 0.425 mW/g



0dB = 0.425 mW/g

Plot 13#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)
1.5 cm separation to the flat phantom with headset (Middle Channel)
Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

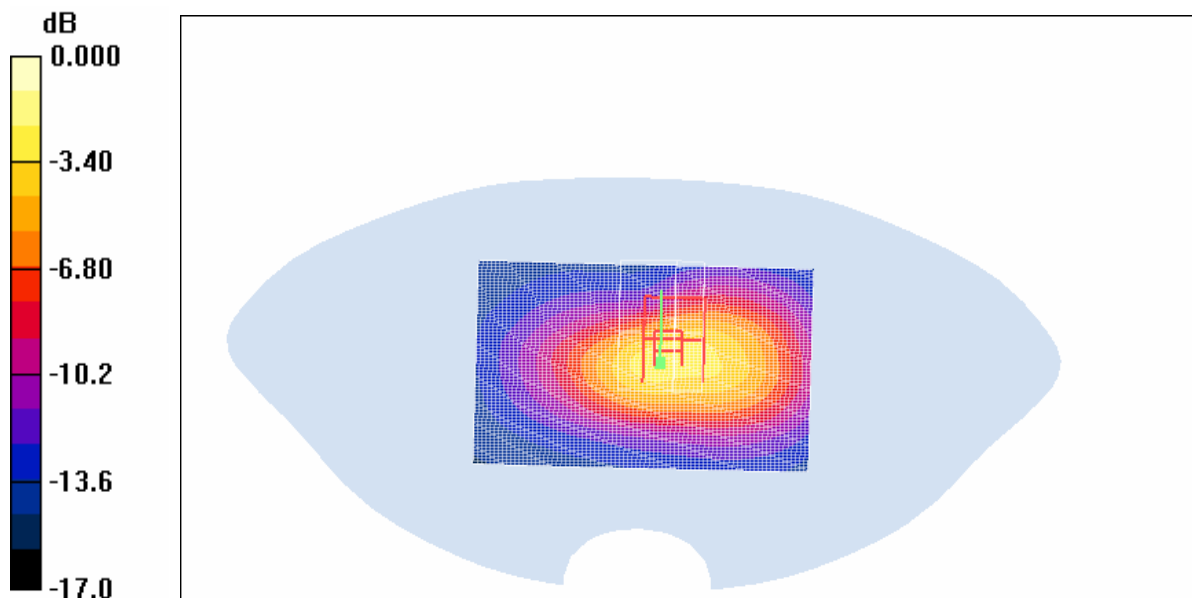
DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(4.68, 4.68, 4.68); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

1.5 cm separation to the flat phantom with headset /Area Scan (71x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.570 mW/g

1.5 cm separation to the flat phantom with headset /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 13.6 V/m; Power Drift = 0.03 dB
 Peak SAR (extrapolated) = 0.561 W/kg

SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.384 mW/g
 Maximum value of SAR (measured) = 0.477 mW/g



0dB = 0.477 mW/g

Plot 14#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**Left Head Cheek (Low Channel)****Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042**

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

Medium parameters used (extrapolated): $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Left Head Cheek/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.32 mW/g

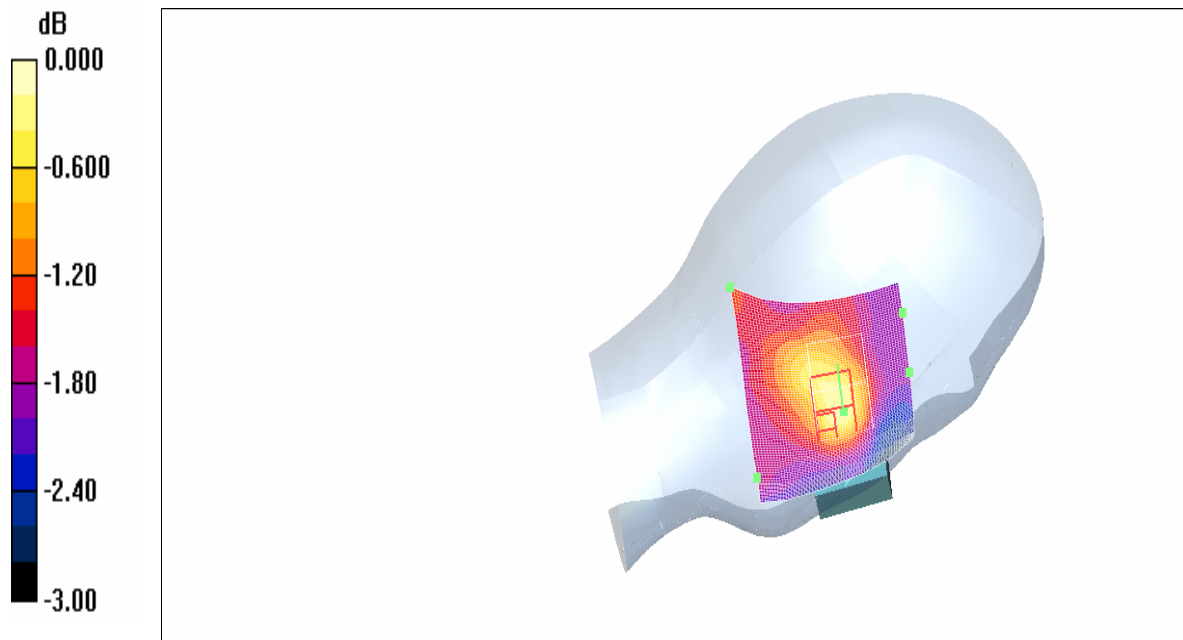
Left Head Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.4 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 1.25 mW/g; SAR(10 g) = 1.08 mW/g

Maximum value of SAR (measured) = 1.28 mW/g



0dB = 1.28 mW/g

Plot 15#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**Left Head Cheek (Middle Channel)****Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042**

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

Medium parameters used (extrapolated): $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Left Head Cheek/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.55 mW/g

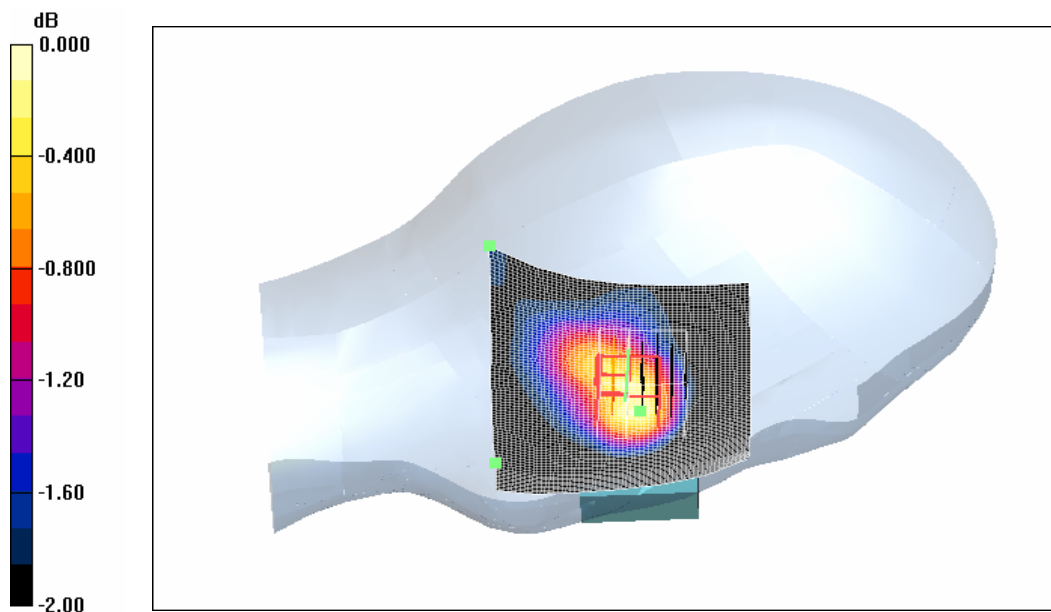
Left Head Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.9 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 1.48 mW/g; SAR(10 g) = 1.17 mW/g

Maximum value of SAR (measured) = 1.51 mW/g



0dB = 1.51 mW/g

Plot 16#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**Left Head Cheek (High Channel)****Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Left Head Cheek /Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.17 mW/g

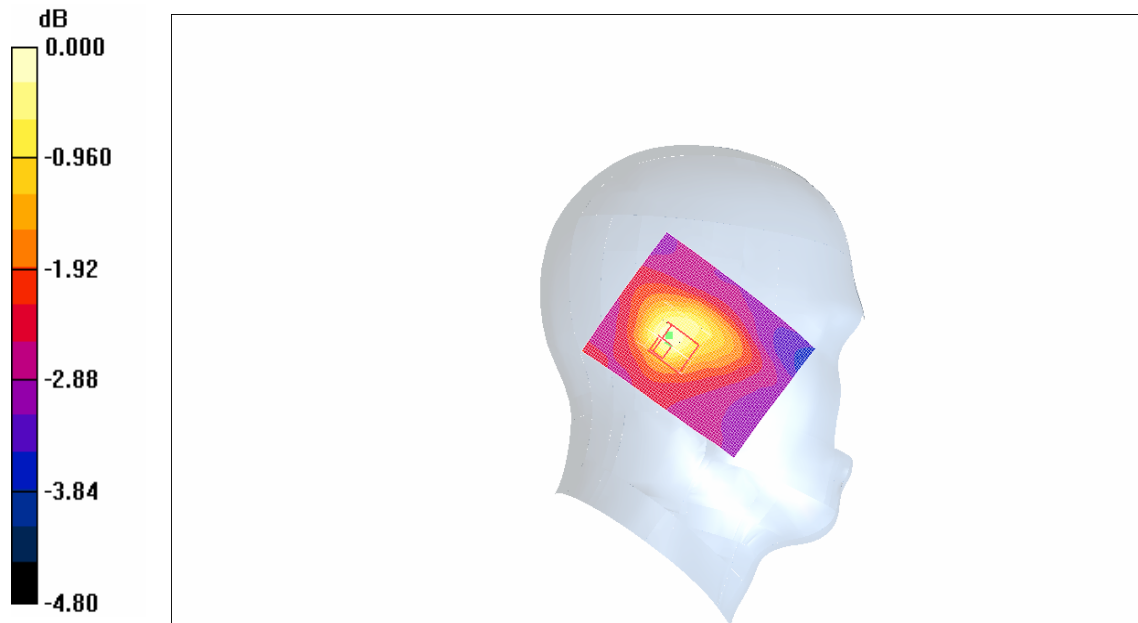
Left Head Cheek /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.7 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.985 mW/g

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



0dB = 1.08 mW/g

Plot 17#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Left Head Tilt (Low Channel)

Mobicom Corp. ; Type: Plus II; Serial: GP01JA23AA0042

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

Medium parameters used (extrapolated): $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Left Head Tilt/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.874 mW/g

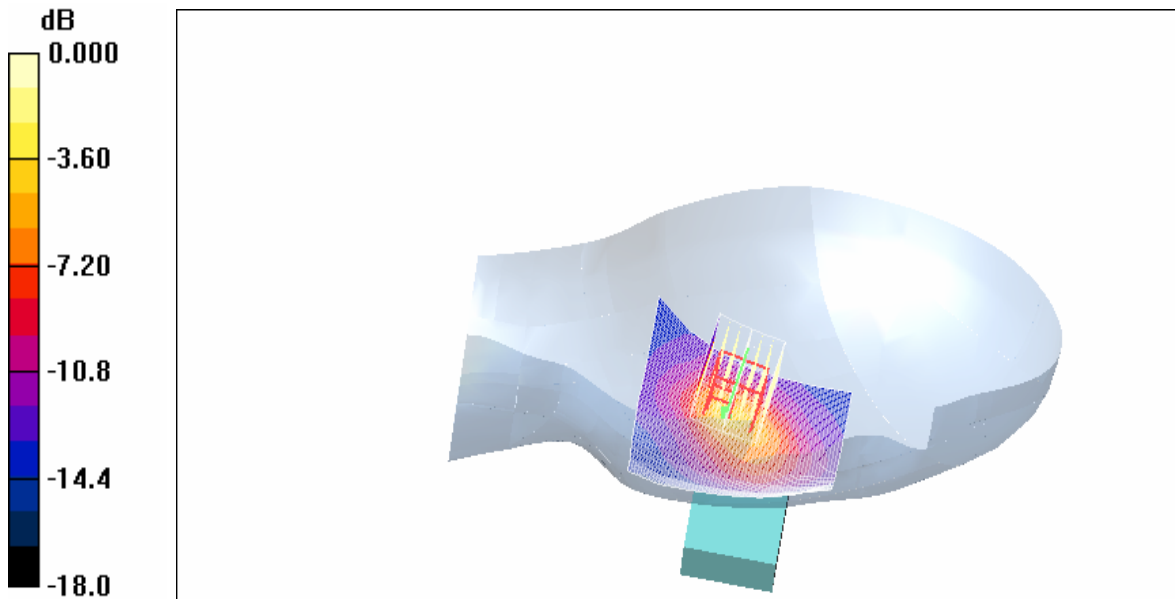
Left Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.16 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.863 mW/g; SAR(10 g) = 0.699 mW/g

Maximum value of SAR (measured) = 0.865 mW/g



0dB = 0.865 mW/g

Plot 18#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Left Head Tilt (Middle Channel)

Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042

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

Medium parameters used (extrapolated): $f = 1900 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Left Head Tilt/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.934 mW/g

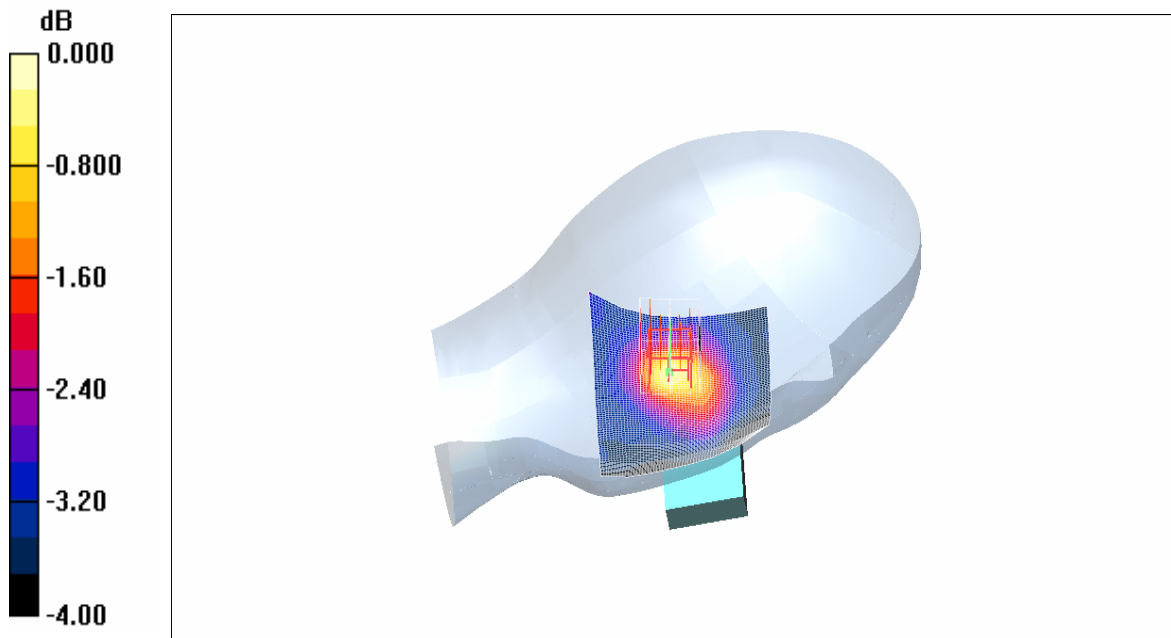
Left Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.2 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.789 mW/g

Maximum value of SAR (measured) = 0.969 mW/g



0dB = 0.969 mW/g

Plot 19#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Left Head Tilt (High Channel)

Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Left Head Tilt/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.829 mW/g

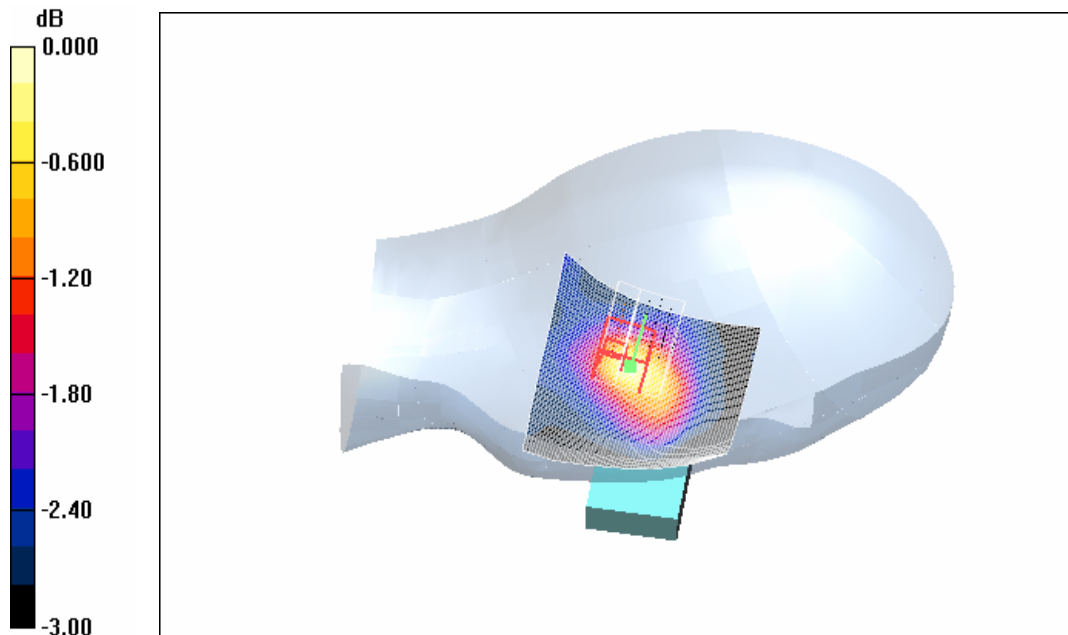
Left Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.7 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.801 mW/g; SAR(10 g) = 0.517 mW/g

Maximum value of SAR (measured) = 0.822 mW/g



0dB = 0.822 mW/g

Plot 20#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Right Head Cheek (Low Channel)

Mobicom Corp. ; Type: Plus II; Serial: GP01JA23AA0042

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

Medium parameters used (extrapolated): $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Right Head Cheek/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.20 mW/g

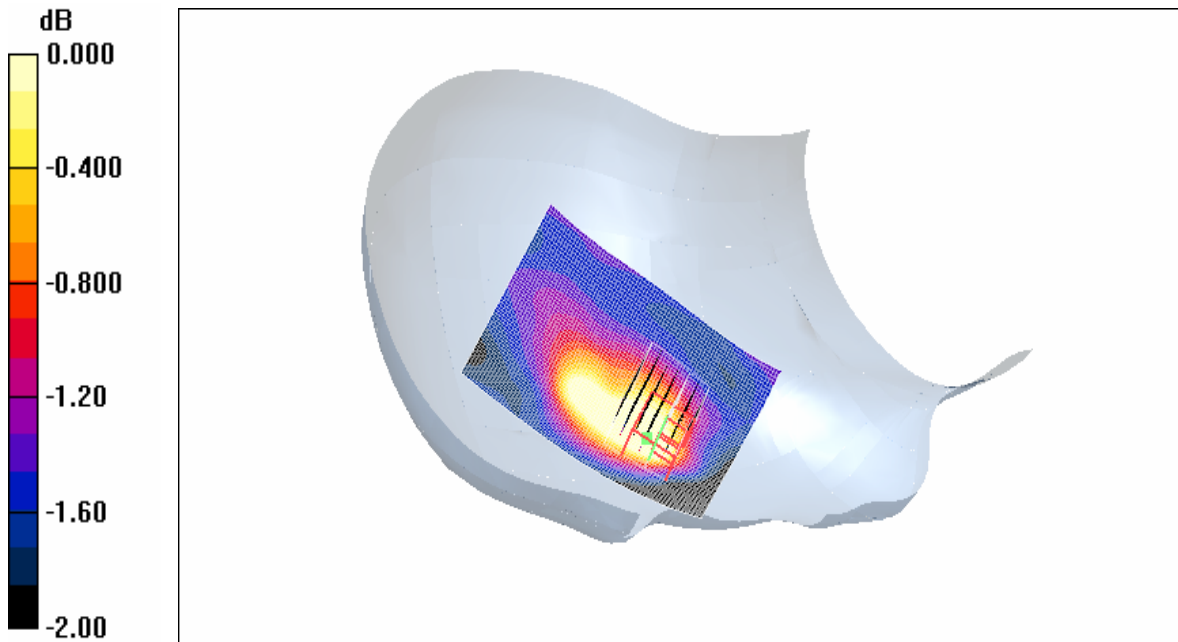
Right Head Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 30.5 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.893 mW/g

Maximum value of SAR (measured) = 1.12 mW/g



0dB = 1.12 mW/g

Plot 21#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)**Right Head Cheek (Middle Channel)****Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042**

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

Medium parameters used (extrapolated): $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Right Head Cheek/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.51 mW/g

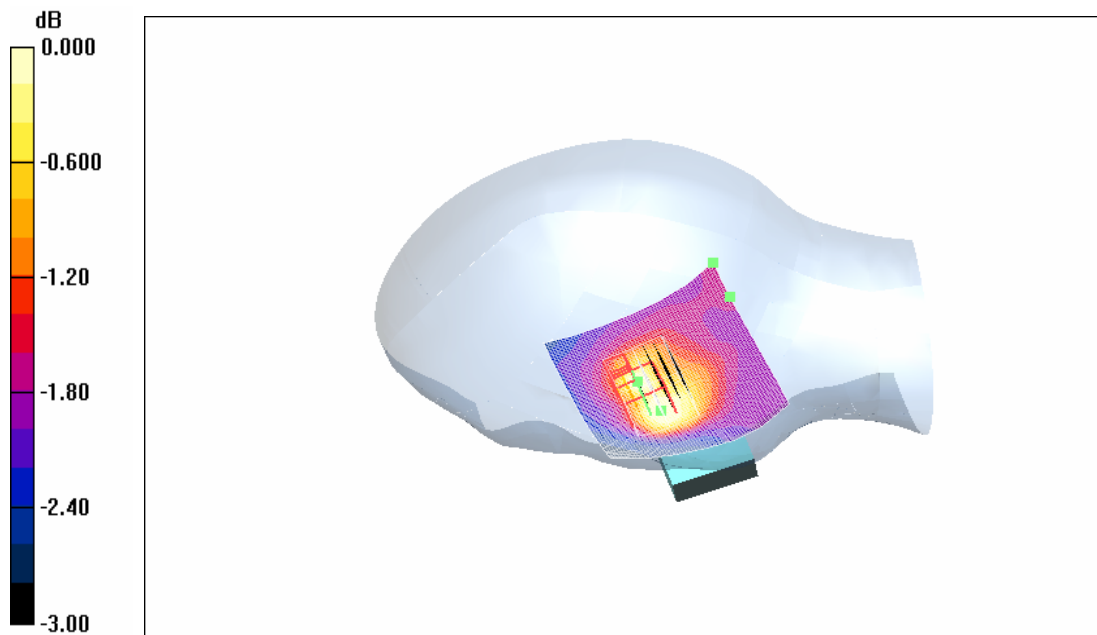
Right Head Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.5 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 1.42 mW/g; SAR(10 g) = 1.11 mW/g

Maximum value of SAR (measured) = 1.46 mW/g



0dB = 1.46 mW/g

Plot 22#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Right Head Cheek (High Channel)

Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Right Head Cheek/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.977 mW/g

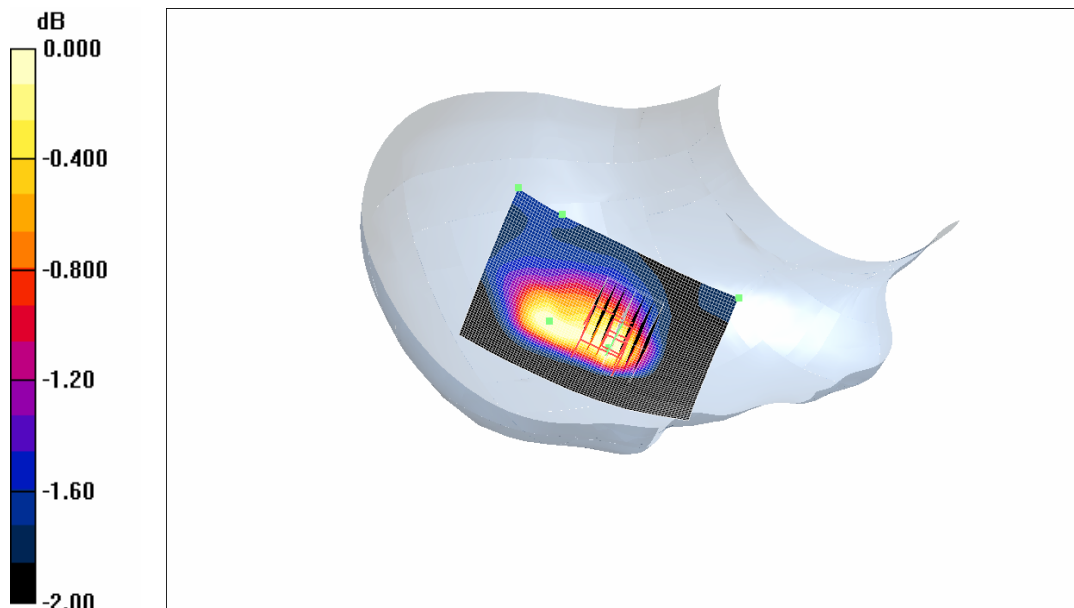
Right Head Cheek/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.0 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.975 W/kg

SAR(1 g) = 0.966 mW/g; SAR(10 g) = 0.805 mW/g

Maximum value of SAR (measured) = 0.968 mW/g



0dB = 0.968 mW/g

Plot 23#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Right Head Tilt (Low Channel)

Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042

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

Medium parameters used (extrapolated): $f = 1900 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Right Head Tilt/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

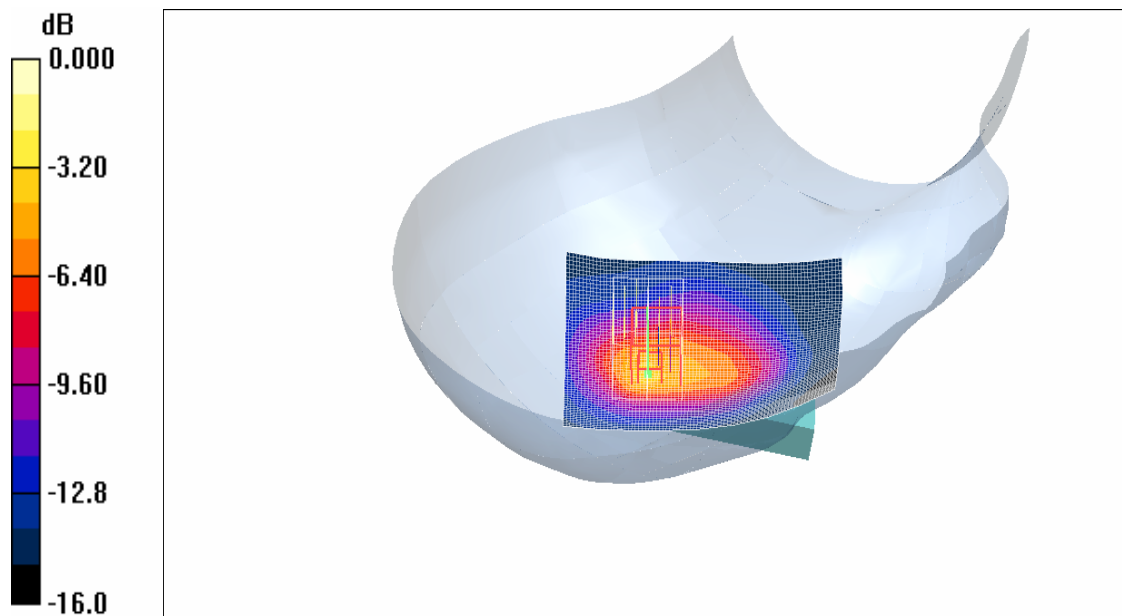
Right Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.63 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.997 W/kg

SAR(1 g) = 0.852 mW/g; SAR(10 g) = 0.676 mW/g

Maximum value of SAR (measured) = 0.893 mW/g



0dB = 0.893 mW/g

Plot 24#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Right Head Tilt (Middle Channel)

Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042

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

Medium parameters used (extrapolated): $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Right Head Tilt/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.09 mW/g

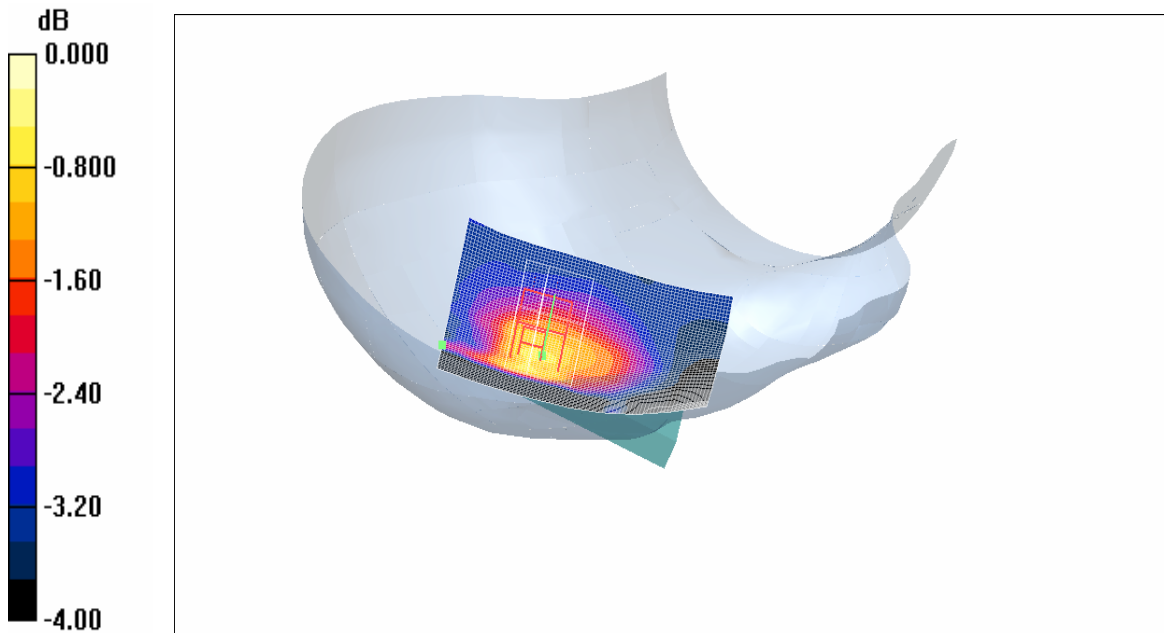
Right Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.3 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.927 mW/g; SAR(10 g) = 0.749 mW/g

Maximum value of SAR (measured) = 0.932 mW/g



0dB = 0.932 mW/g

Plot 25#

Test Laboratory: Bay Area Compliance Lab Corp. (BACL)

Right Head Tilt (High Channel)

Mobicom Corp.; Type: Plus II; Serial: GP01JA23AA0042

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(5.21, 5.21, 5.21); Calibrated: 8/28/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/8/2007
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Post processing SW: SEMCAD, V1.8 Build 161

Right Head Tilt/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.993 mW/g

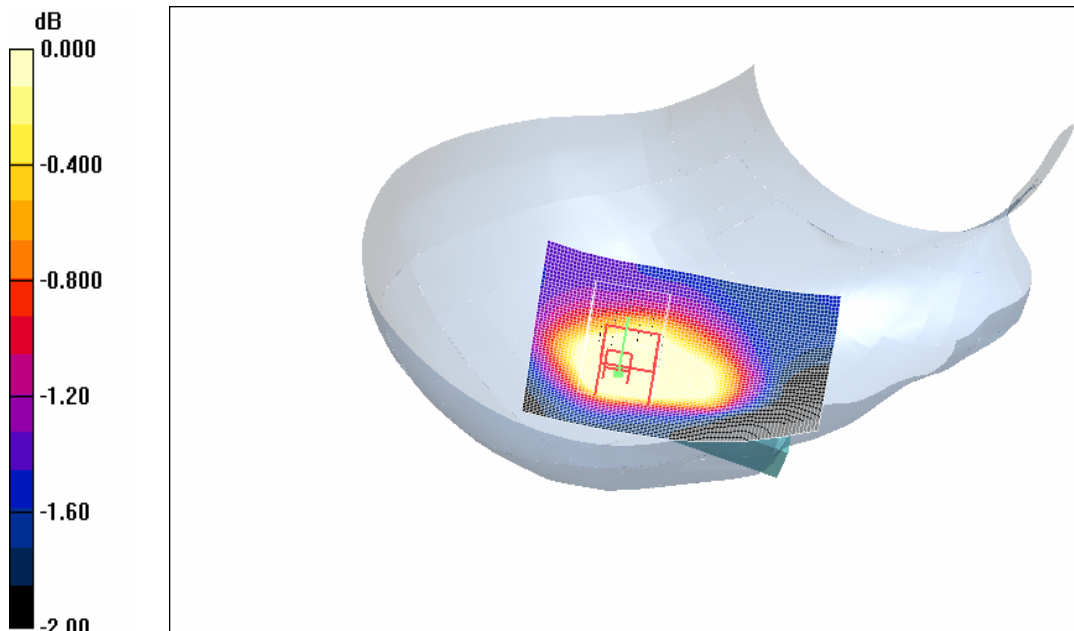
Right Head Tilt/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.8 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.813 W/kg

SAR(1 g) = 0.798 mW/g; SAR(10 g) = 0.512 mW/g

Maximum value of SAR (measured) = 0.807 mW/g



0dB = 0.807 mW/g

Plot 26#

APPENDIX F – CONDUCTED OUTPUT POWER MEASUREMENT

Provision Applicable

The measured peak output power should be greater and within 5% than EMI measurement.

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

Test Equipment

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	E4446A	US44300386	2007-04-26

Test Results

GSM850:

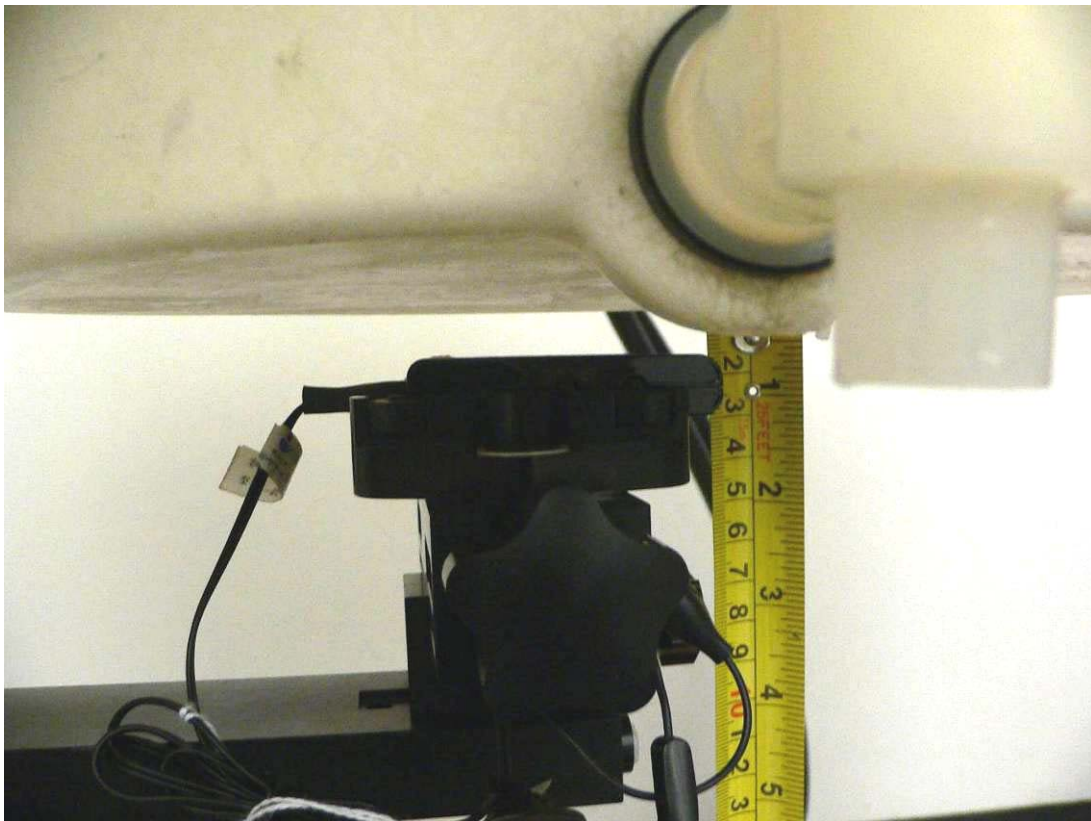
Channel	Frequency (MHz)	Measured Output Power	
		(dBm)	(mW)
Low	824.2	33.11	2046.4
Mid	836.6	33.12	2051.2
High	848.8	33.23	2103.8

PCS1900:

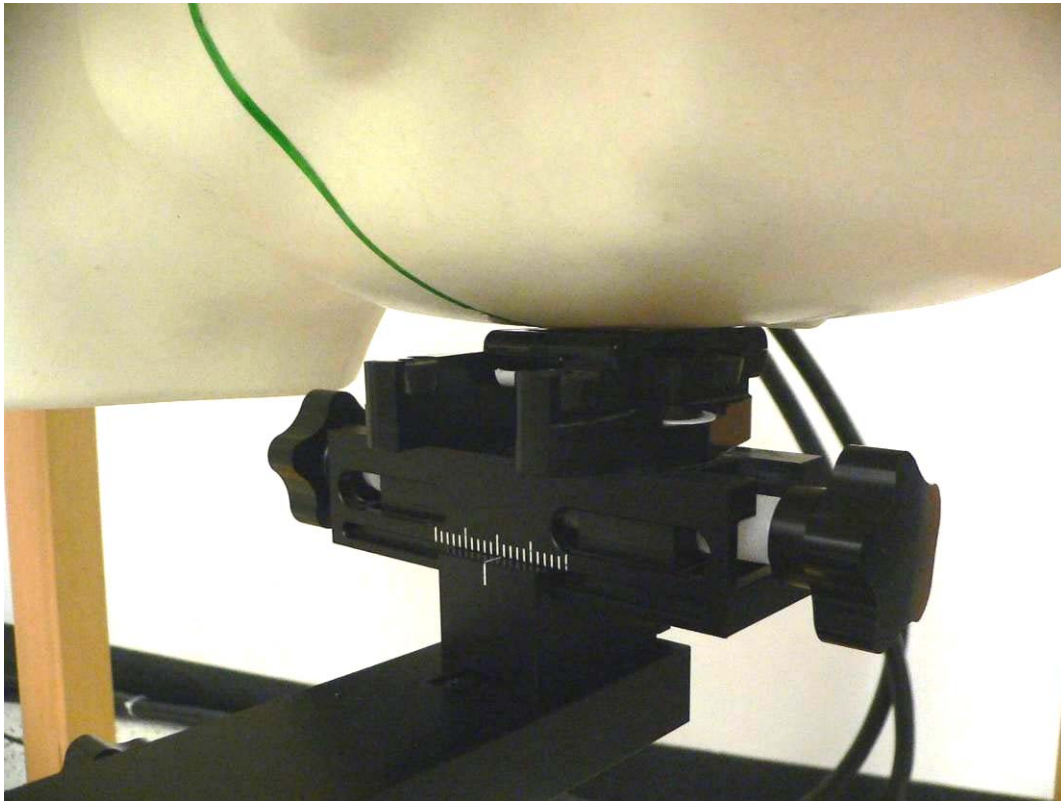
Channel	Frequency (MHz)	Measured Output Power	
		(dBm)	(mW)
Low	1850.2	28.85	767.4
Mid	1880.0	28.45	699.8
High	1909.8	28.32	679.2

APPENDIX G – EUT TEST POSITION PHOTOS

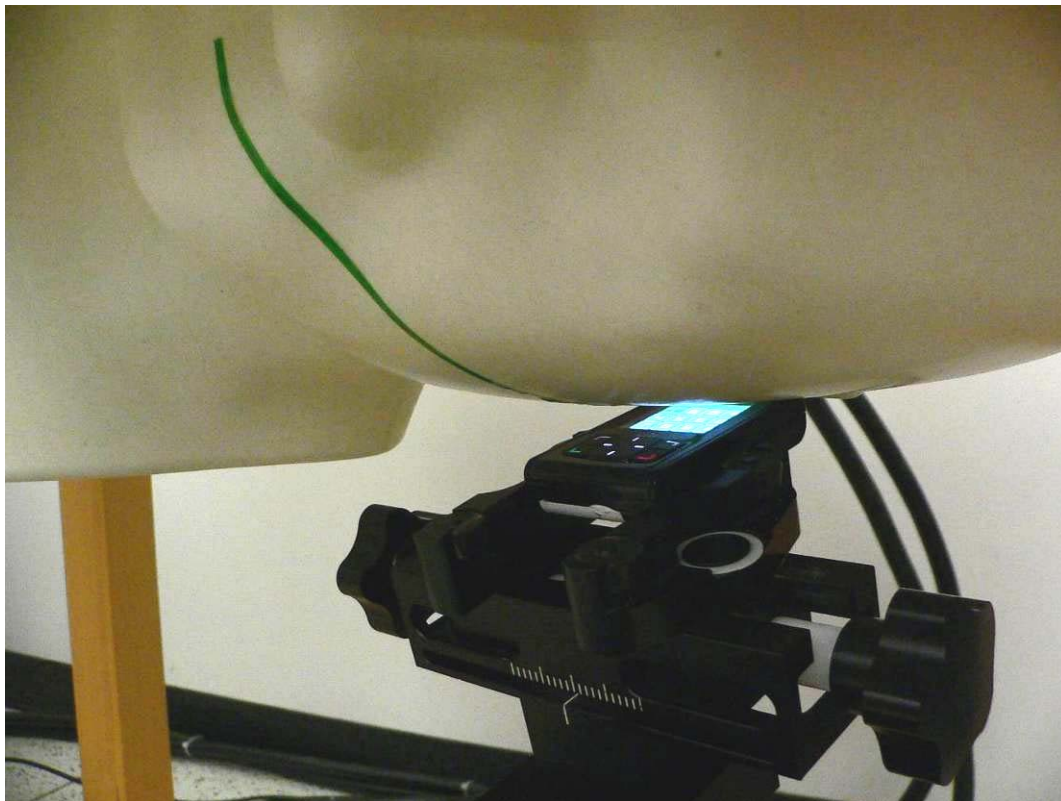
EUT 1.5 cm Separation to the Flat Phantom with Headset



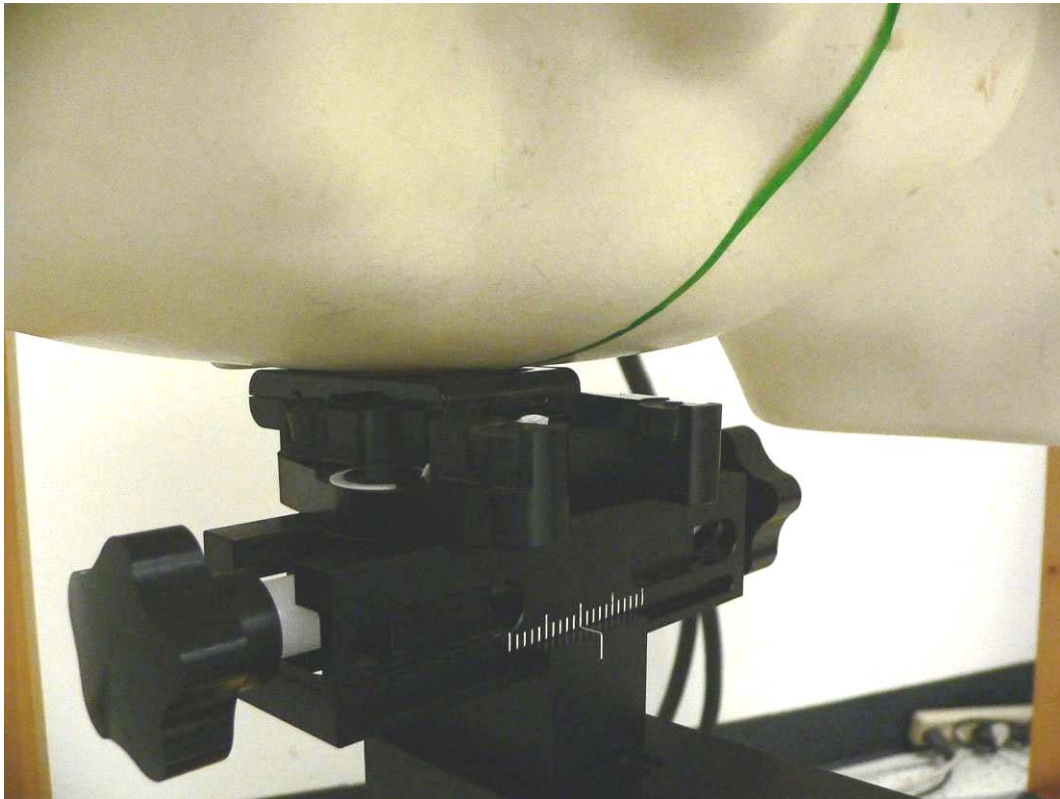
EUT Left Head Cheek



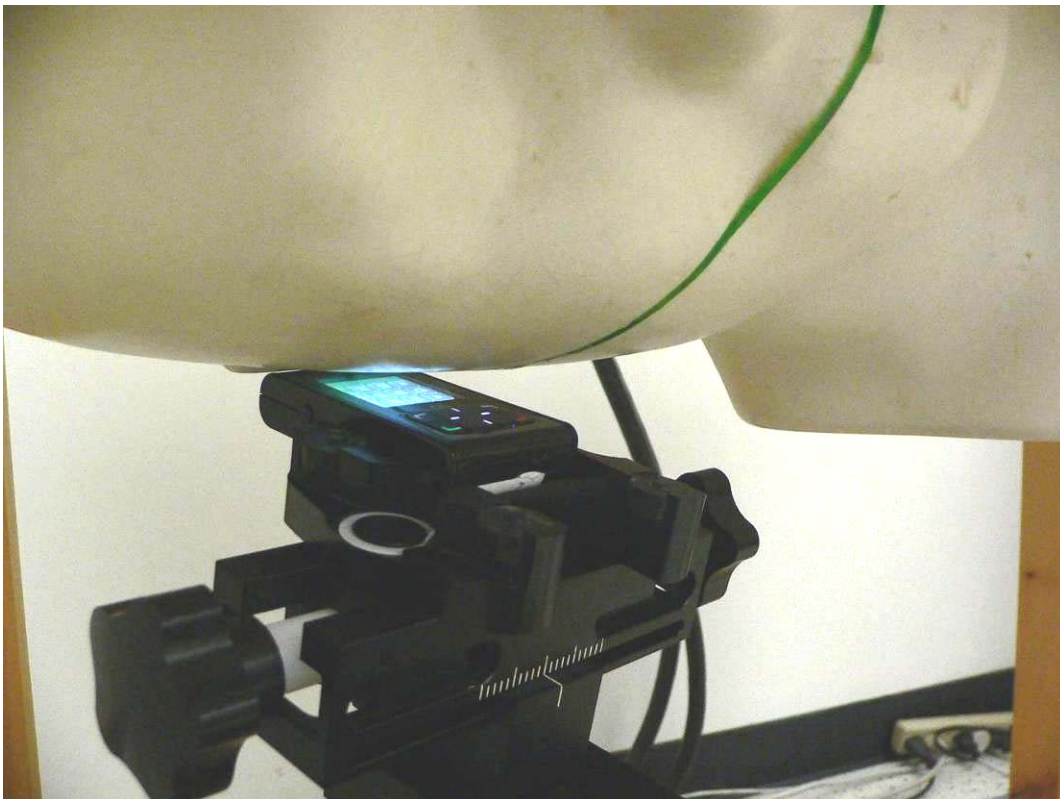
EUT Left Head Tilt



EUT Right Head Cheek

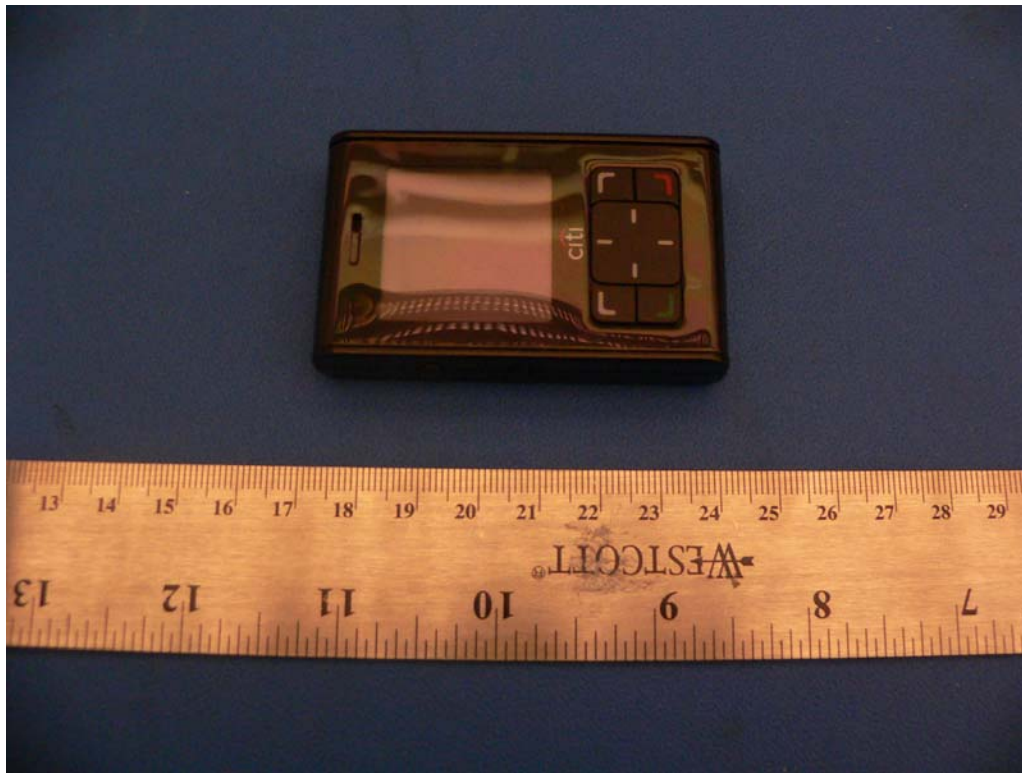


EUT Right Head Tilt



APPENDIX H- EUT PHOTO

EUT – Front View



EUT – Bottom Side View



APPENDIX I - INFORMATIVE REFERENCES

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