

**4. AD-Converter Values with inputs shorted**

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16305	15799
Channel Y	15832	14878
Channel Z	16026	16094

**5. Input Offset Measurement**

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10M $\Omega$ 

	Average ( $\mu$ V)	min. Offset ( $\mu$ V)	max. Offset ( $\mu$ V)	Std. Deviation ( $\mu$ V)
Channel X	-0.23	-1.20	1.19	0.30
Channel Y	-0.80	-1.80	0.08	0.26
Channel Z	-0.31	-1.66	1.10	0.31

**6. Input Offset Current**

Nominal Input circuitry offset current on all channels: &lt;25fA

**7. Input Resistance**

	Zeroing (MOhm)	Measuring (MOhm)
Channel X	0.2001	199.8
Channel Y	0.2001	199.5
Channel Z	0.2000	199.8

**8. Low Battery Alarm Voltage** (verified during pre test)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

**9. Power Consumption** (verified during pre test)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.0	+6	+14
Supply (- Vcc)	-0.01	-8	-9

## APPENDIX E - TEST SYSTEM VERIFICATIONS SCANS

### Measurement Result

System Validation Dipole: D900V2 SN:122

#### Environmental Conditions

<b>Ambient Temperature:</b>	22° C
<b>Relative Humidity:</b>	72%
<b>ATM Pressure:</b>	1033 mbar

\* Testing was performed by Eric Hong on 2007-6-11.

Freq [MHz]	Parameters	Liquid Temp [°C]	Target Value	Measured Value	Deviation [%]	Limits [%]
835	$\epsilon_r$	22	41.5	41.3	-0.48	±5
	$\sigma$	22	0.90	0.91	1.11	±5
	1g SAR	22	9.5	9.44	-0.63	±10

$\epsilon_r$  = relative permittivity,  $\sigma$  = conductivity and  $\rho=1000\text{kg/m}^3$

**Test Laboratory: Bay Area Compliance Lab Corp. (BACL)****System Performance Check****DUT: Dipole 900 MHz; Type: D900V2; Serial: 122**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

## DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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=15mm, Pin=1W/Area Scan (61x121x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 9.61 mW/g

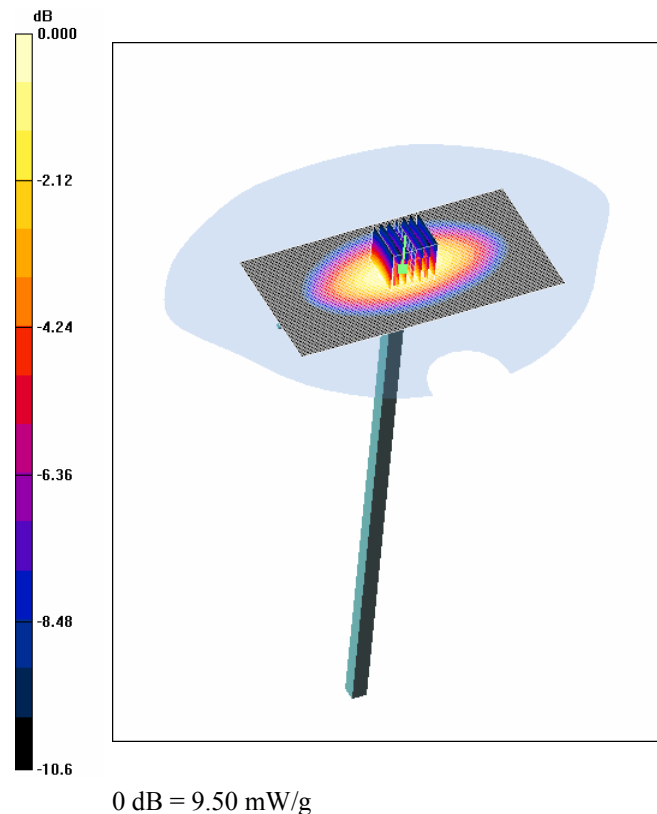
**d=15mm, Pin=1W/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.5 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 10.02 W/kg

**SAR(1 g) = 9.44 mW/g; SAR(10 g) = 5.86 mW/g**

Maximum value of SAR (measured) = 9.50 mW/g



## APPENDIX F - EUT SCANS

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

**Right Head Touch, Middle Channel**

**Hisense Communication Co., Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800 MHz CDMA 1X; Frequency: 836.52 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

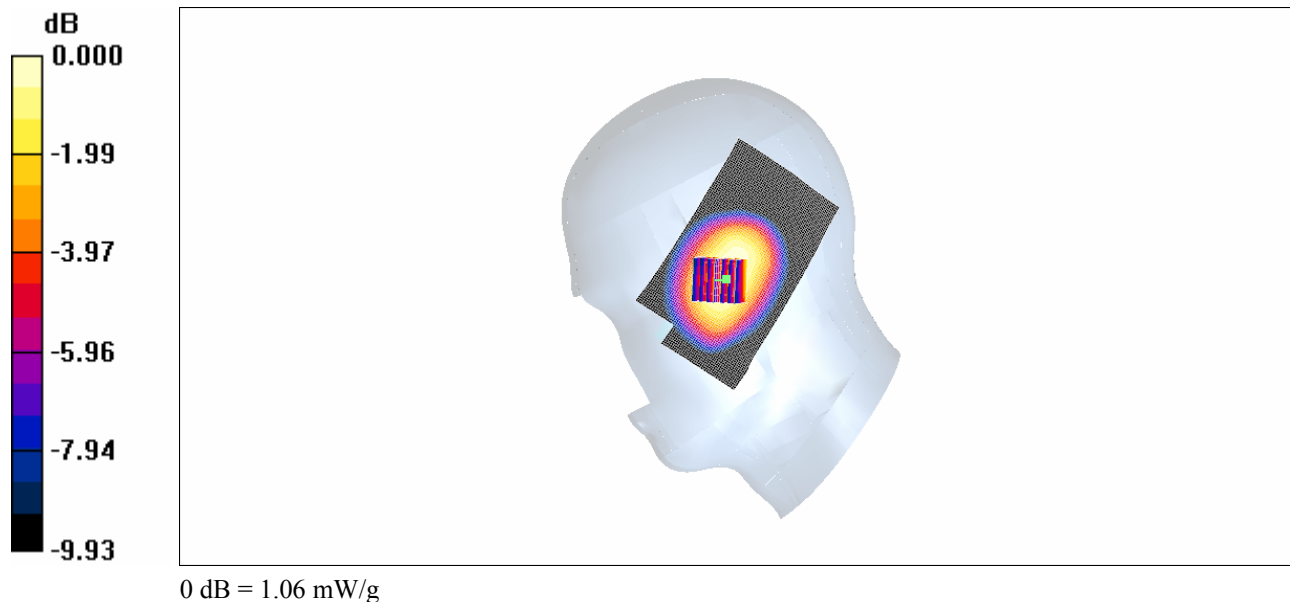
DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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 Touch/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 1.12 mW/g

**Right Head Touch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 30.5 V/m; Power Drift = -0.184 dB  
 Peak SAR (extrapolated) = 1.35 W/kg  
**SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.711 mW/g**

Maximum value of SAR (measured) = 1.06 mW/g



**Plot#1**

**Test Laboratory: Bay Area Compliance Lab Corp. (BACL)****Right Head Touch, Low Channel****Hisense Communication Co., Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800 MHz CDMA 1X; Frequency: 824.7 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

## DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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 Touch/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.788 mW/g

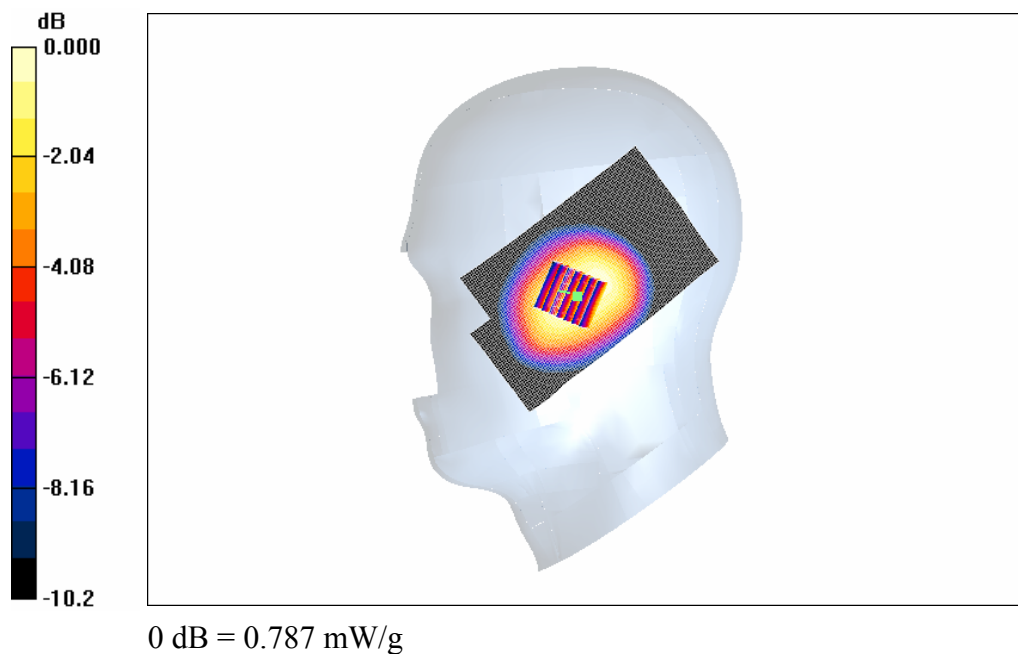
**Right Head Touch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.7 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.746 mW/g; SAR(10 g) = 0.527 mW/g**

Maximum value of SAR (measured) = 0.787 mW/g

**Plot#2**

**Test Laboratory: Bay Area Compliance Lab Corp. (BACL)****Right Head Touch, High Channel****Hisense Communication Co., Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800 MHz CDMA 1X; Frequency: 848.31 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

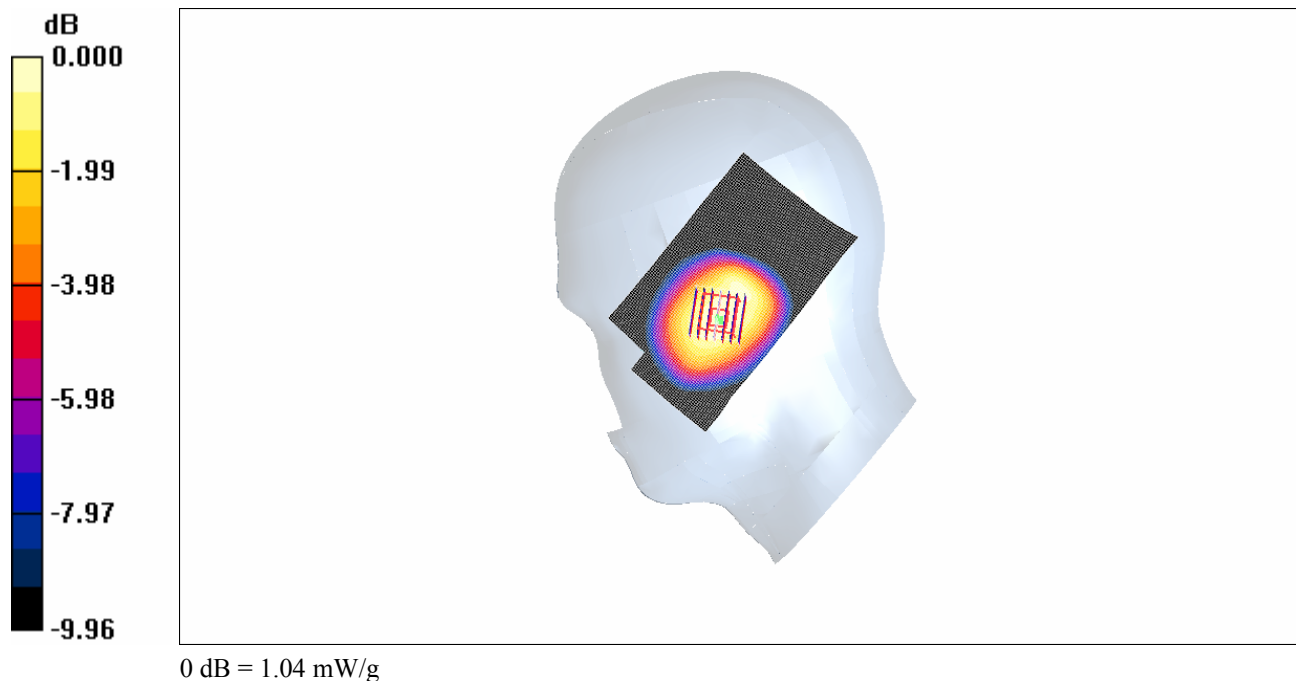
## DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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 Touch/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 1.05 mW/g

**Right Head Touch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 30.0 V/m; Power Drift = -0.168 dB  
 Peak SAR (extrapolated) = 1.27 W/kg  
**SAR(1 g) = 0.971 mW/g; SAR(10 g) = 0.691 mW/g**

Maximum value of SAR (measured) = 1.04 mW/g

**Plot#3**

**Test Laboratory: Bay Area Compliance Lab Corp. (BACL)****Right Head Tilt, Middle Channel****Hisense Communication Co., Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800 MHz CDMA 1X; Frequency: 836.52 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

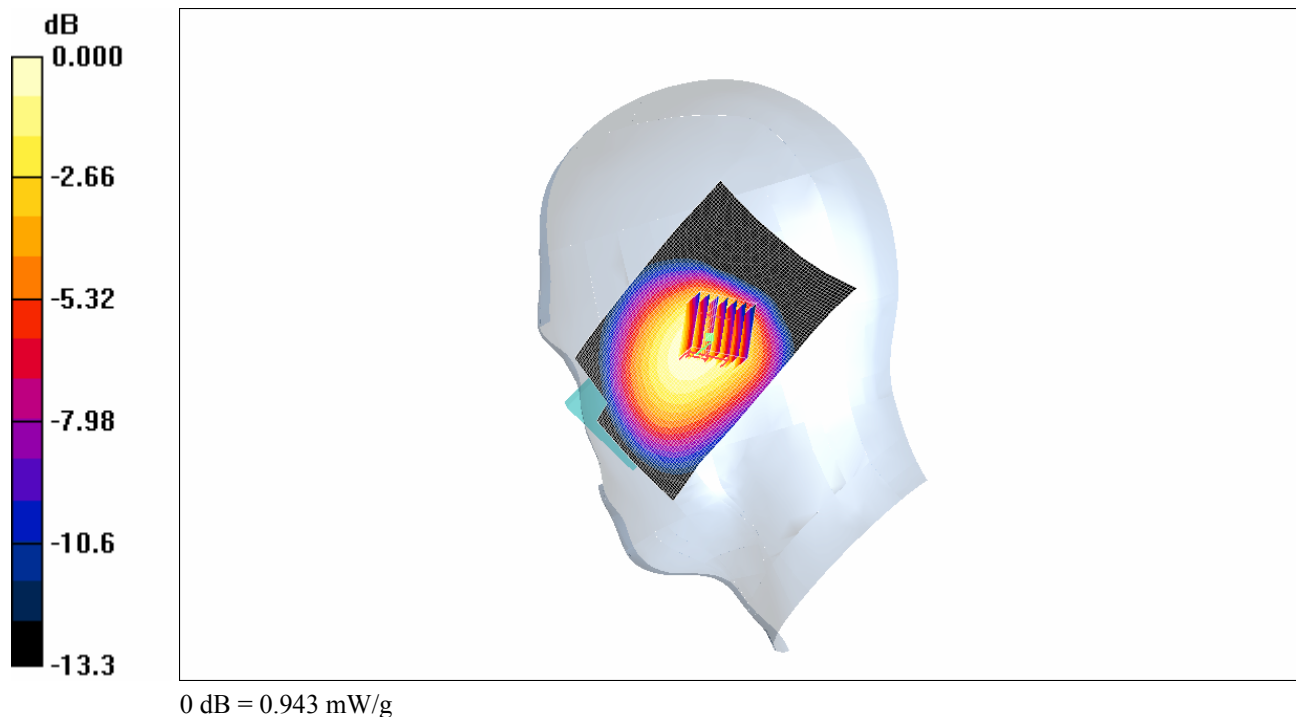
## DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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 Touch/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.993 mW/g

**Right Head Touch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 33.0 V/m; Power Drift = -0.092 dB  
 Peak SAR (extrapolated) = 1.43 W/kg  
**SAR(1 g) = 0.884 mW/g; SAR(10 g) = 0.625 mW/g**

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

**Plot#4**



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

**Right Head Tilt, Low Channel**

**Hisense Communication Co., Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800 MHz CDMA 1X; Frequency: 824.7 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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 (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.639 mW/g

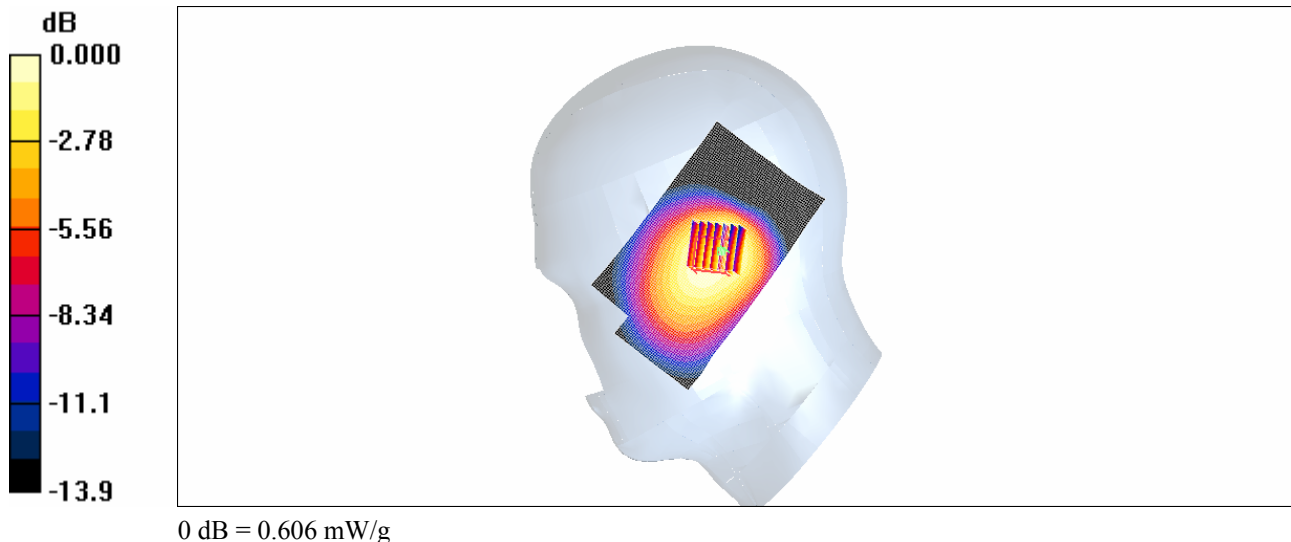
**Right Head Tilt/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.4 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.984 W/kg

**SAR(1 g) = 0.565 mW/g; SAR(10 g) = 0.401 mW/g**

Maximum value of SAR (measured) = 0.606 mW/g



**Plot#5**



**Test Laboratory: Bay Area Compliance Lab Corp. (BACL)****Right Head Tilt, High Channel****Hisense Communication Co.,Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800 MHz CDMA 1X; Frequency: 848.31 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Right Section

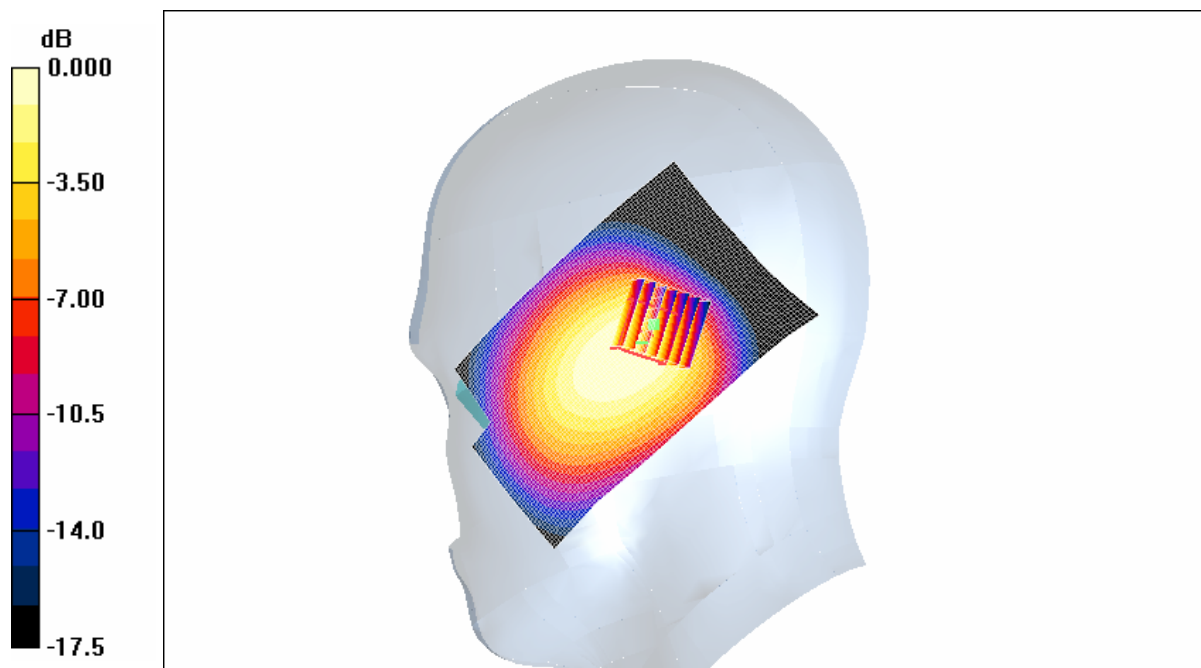
## DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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 (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.909 mW/g

**Right Head Tilt/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 31.3 V/m; Power Drift = 0.065 dB  
 Peak SAR (extrapolated) = 1.48 W/kg  
**SAR(1 g) = 0.790 mW/g; SAR(10 g) = 0.521 mW/g**

Maximum value of SAR (measured) = 0.838 mW/g



0 dB = 0.838 mW/g

**Plot#6**

**Test Laboratory: Bay Area Compliance Lab Corp. (BACL)****Left Head Touch, Middle Channel****Hisense Communication Co., Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800 MHz CDMA 1X; Frequency: 836.52 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

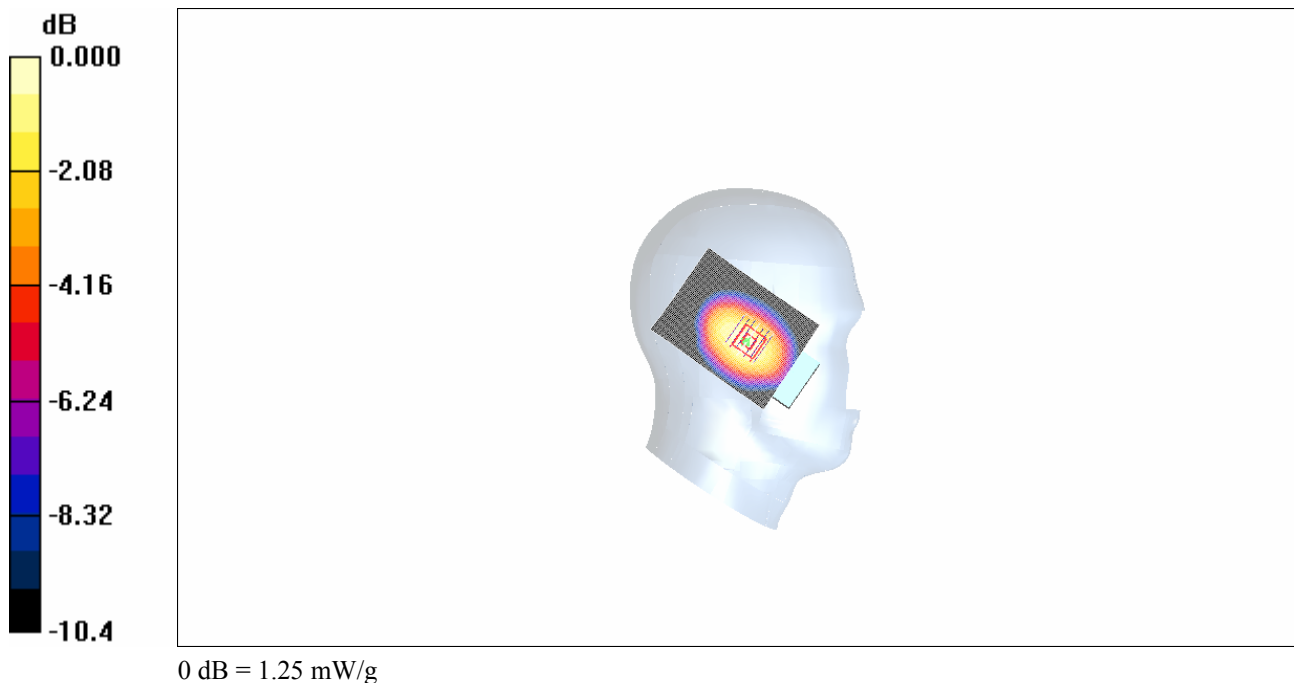
## DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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) = 1.24 mW/g

**Left Head Touch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 34.2 V/m; Power Drift = 0.076 dB  
 Peak SAR (extrapolated) = 1.61 W/kg  
**SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.807 mW/g**

Maximum value of SAR (measured) = 1.25 mW/g

**Plot#7**

**Test Laboratory: Bay Area Compliance Lab Corp. (BACL)****Left Head Touch, Low Channel****Hisense Communication Co., Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800 MHz CDMA 1X; Frequency: 824.7 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

## DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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) = 0.652 mW/g

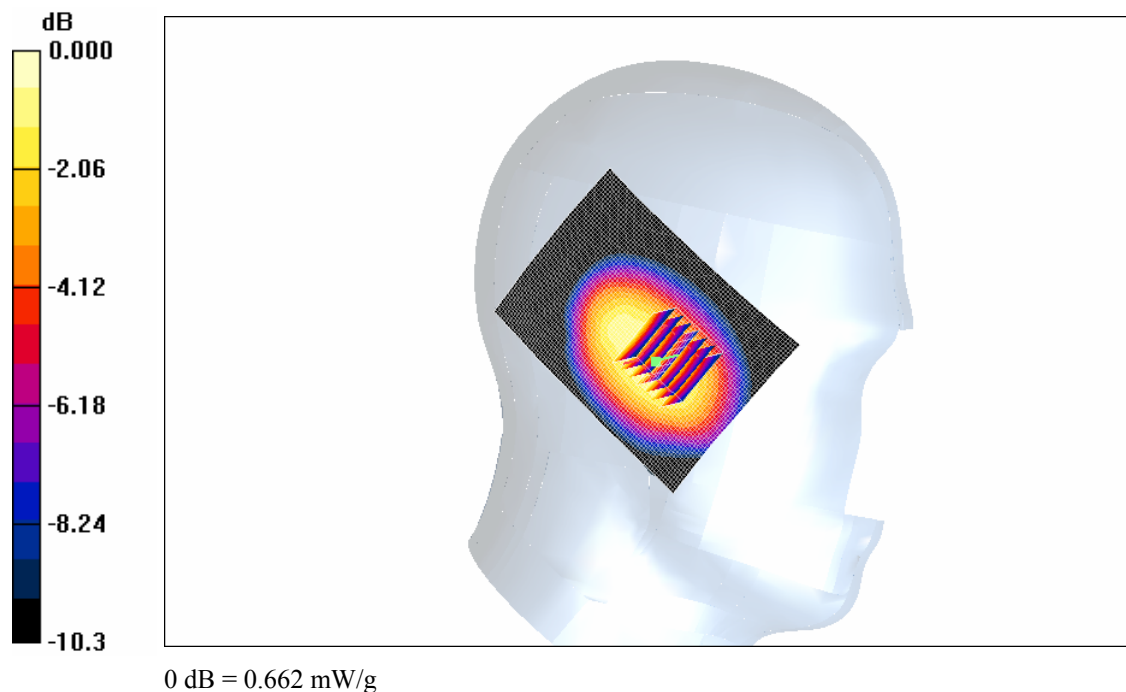
**Left Head Touch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.6 V/m; Power Drift = -0.251 dB

Peak SAR (extrapolated) = 0.900 W/kg

**SAR(1 g) = 0.615 mW/g; SAR(10 g) = 0.423 mW/g**

Maximum value of SAR (measured) = 0.662 mW/g

**Plot#8**

**Test Laboratory: Bay Area Compliance Lab Corp. (BACL)****Left Head Touch, High Channel****Hisense Communication Co., Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800MHz CDMA 1X; Frequency: 848.31 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

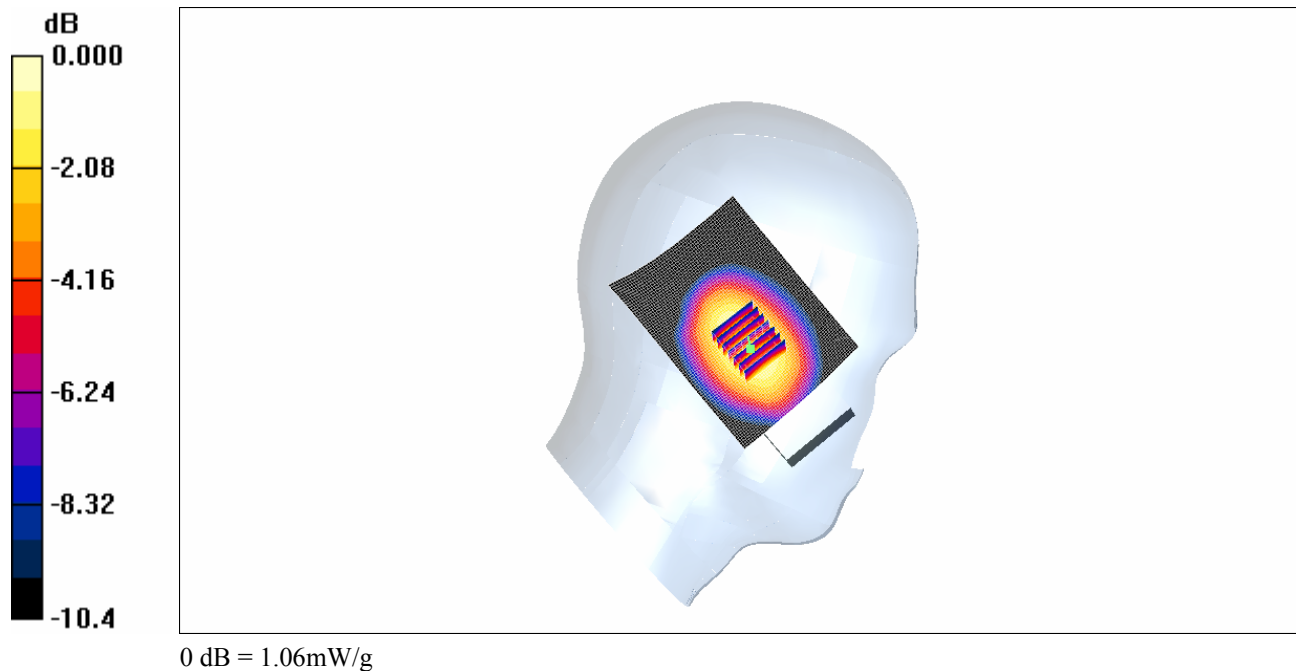
## DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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) = 1.04 mW/g

**Left Head Touch/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 32.6 V/m; Power Drift = -0.469 dB  
 Peak SAR (extrapolated) = 1.35 W/kg  
**SAR(1 g) = 0.989 mW/g; SAR(10 g) = 0.685 mW/g**

Maximum value of SAR (measured) = 1.06 mW/g



Plot#9

**Test Laboratory: Bay Area Compliance Lab Corp. (BACL)****Left Head Tilt, Middle Channel****Hisense Communication Co., Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800 MHz CDMA 1X; Frequency: 836.52 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

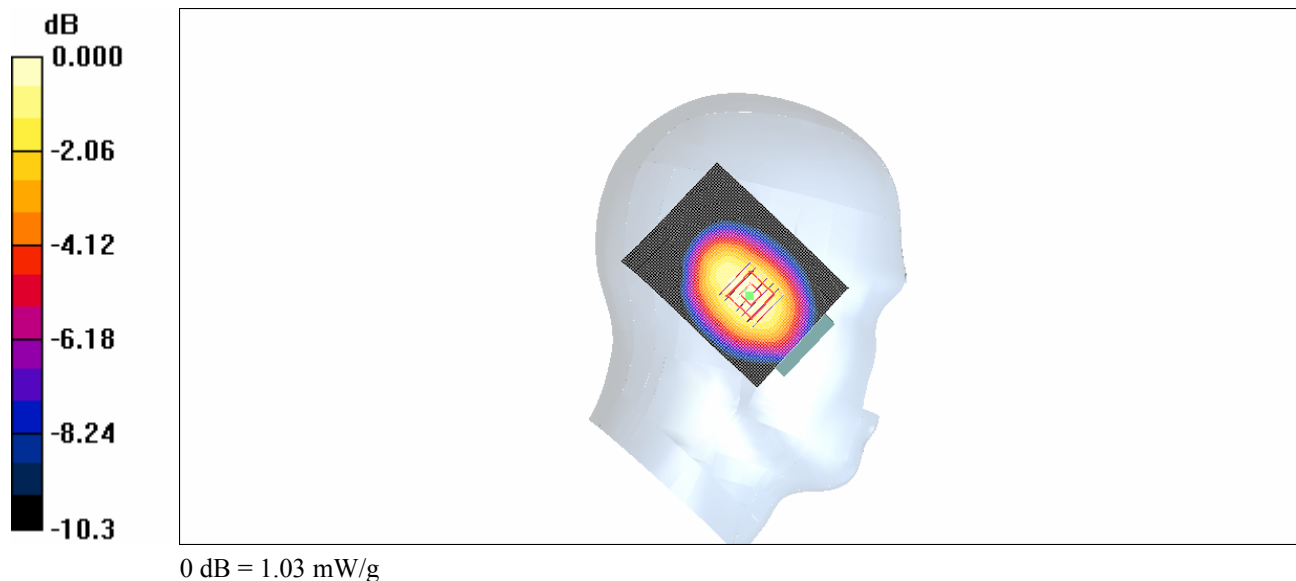
## DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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) = 1.12 mW/g

**Left Head Tilt/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 34.4 V/m; Power Drift = 0.04 dB  
 Peak SAR (extrapolated) = 1.34 W/kg  
**SAR(1 g) = 0.915 mW/g; SAR(10 g) = 0.762 mW/g**

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

**Plot#10**

**Test Laboratory: Bay Area Compliance Lab Corp. (BACL)****Left Head Tilt, Low Channel****Hisense Communication Co., Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800 MHz CDMA 1X; Frequency: 824.7 MHz; Duty Cycle: 1:1  
 Medium parameters used (interpolated):  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

## DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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) = 0.643 mW/g

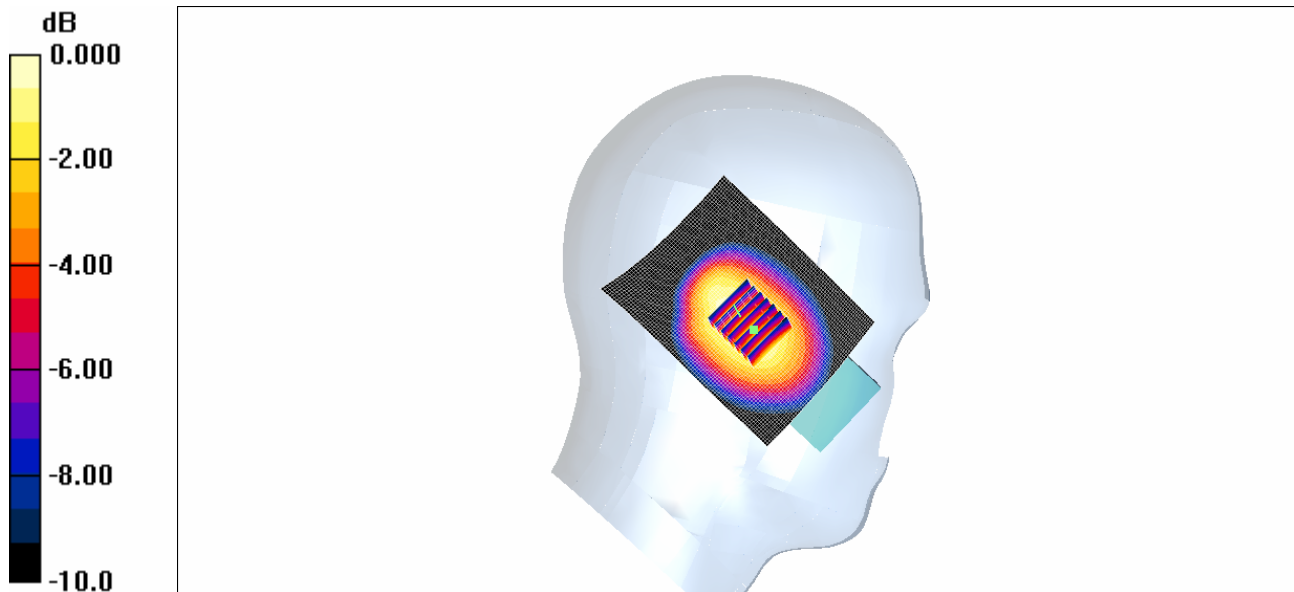
**Left Head Tilt/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.4 V/m; Power Drift = -0.193 dB

Peak SAR (extrapolated) = 0.764 W/kg

**SAR(1 g) = 0.585 mW/g; SAR(10 g) = 0.413 mW/g**

Maximum value of SAR (measured) = 0.628 mW/g



0 dB = 0.628mW/g

**Plot#11**

**Test Laboratory: Bay Area Compliance Lab Corp. (BACL)****Left Head Tilted, High Channel****Hisense Communication Co., Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800 MHz CDMA 1X; Frequency: 848.31 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.91$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

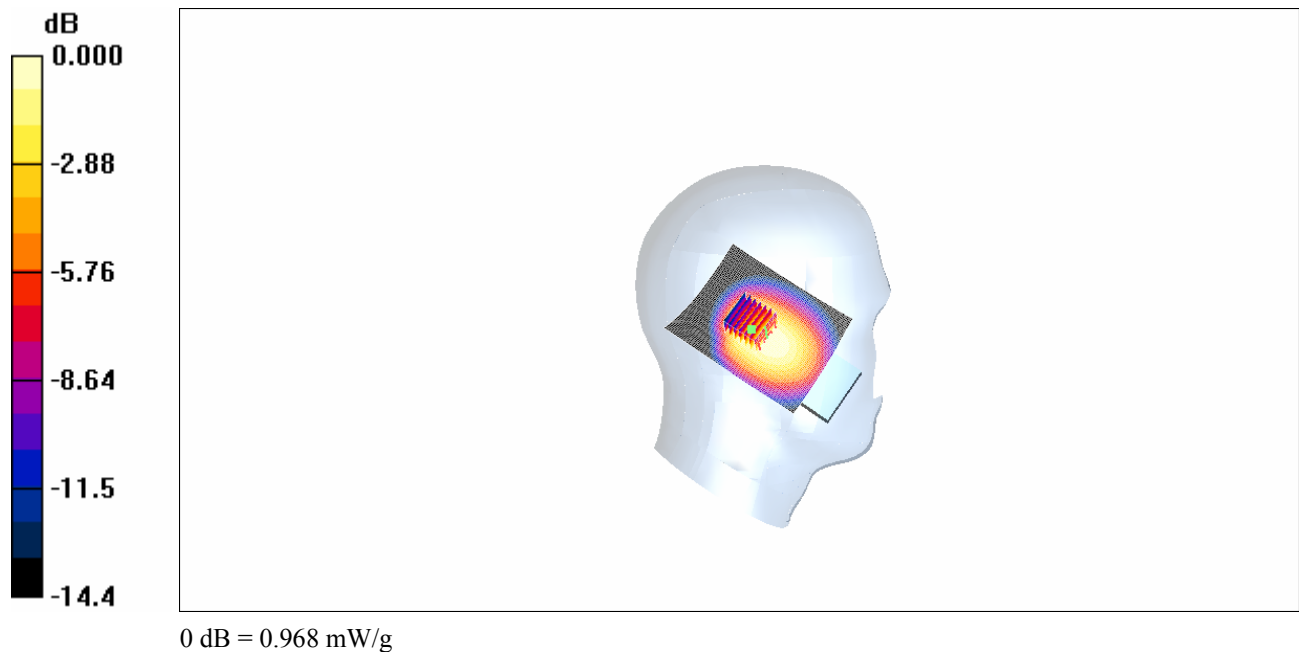
## DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.6, 6.6, 6.6); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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) = 0.986 mW/g

**Left Head Tilt/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 32.2 V/m; Power Drift = 0.280 dB  
 Peak SAR (extrapolated) = 1.24 W/kg  
**SAR(1 g) = 0.896 mW/g; SAR(10 g) = 0.604 mW/g**

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

**Plot#12**



**Test Laboratory: Bay Area Compliance Lab Corp. (BACL)****1.5 cm separation to flat phantom with headset****Hisense Communication Co., Ltd.; Type: HS-C127; Serial: 4F83D346**

Communication System: 800MHz CDMA 1X; Frequency: 836.52 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 836.52$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 55.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

## DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(6.27, 6.27, 6.27); Calibrated: 5/2/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 11/22/2006
- 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 flat phantom with headset/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.585 mW/g

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

Reference Value = 19.3 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 0.662 mW/g; SAR(10 g) = 0.415 mW/g**

Maximum value of SAR (measured) = 0.601 mW/g



0 dB = 0.601 mW/g

**Plot#13**

## **APPENDIX G – 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**

<b>Equipment Description</b>	<b>Model Number</b>	<b>Serial Number</b>	<b>Calibration Date</b>
Agilent Spectrum Analyzer	8565EC	3946A00131	2007-01-24

### **Test Results**

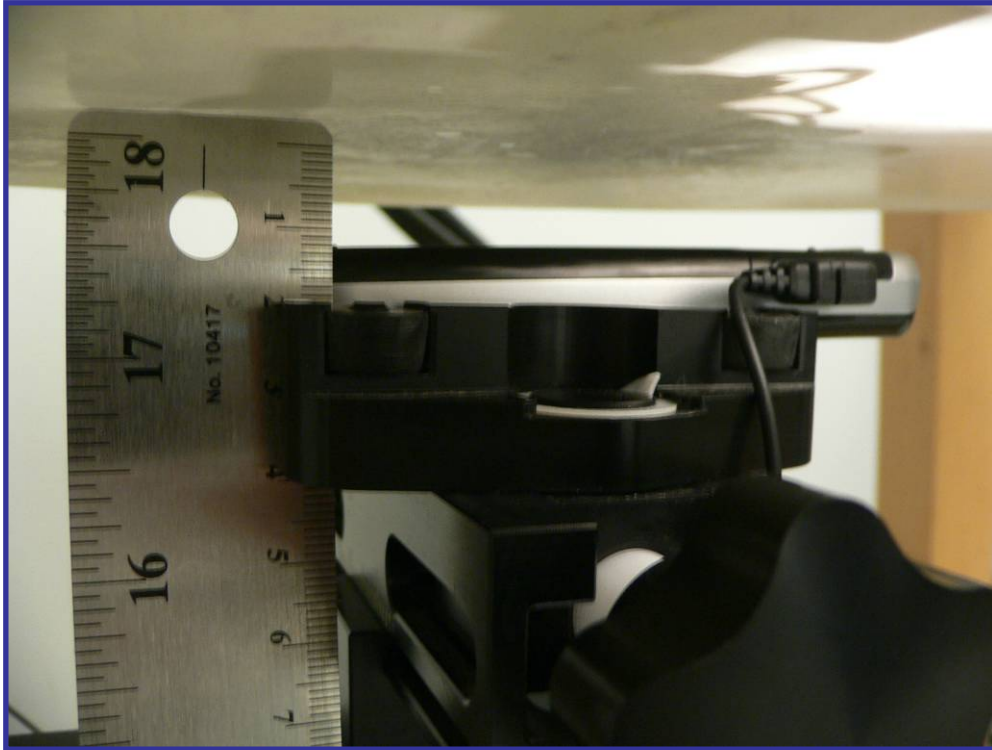
<b>Frequency (MHz)</b>	<b>Output Power (dBm)</b>
824.7	23.59
836.52	23.83
848.31	23.69

---

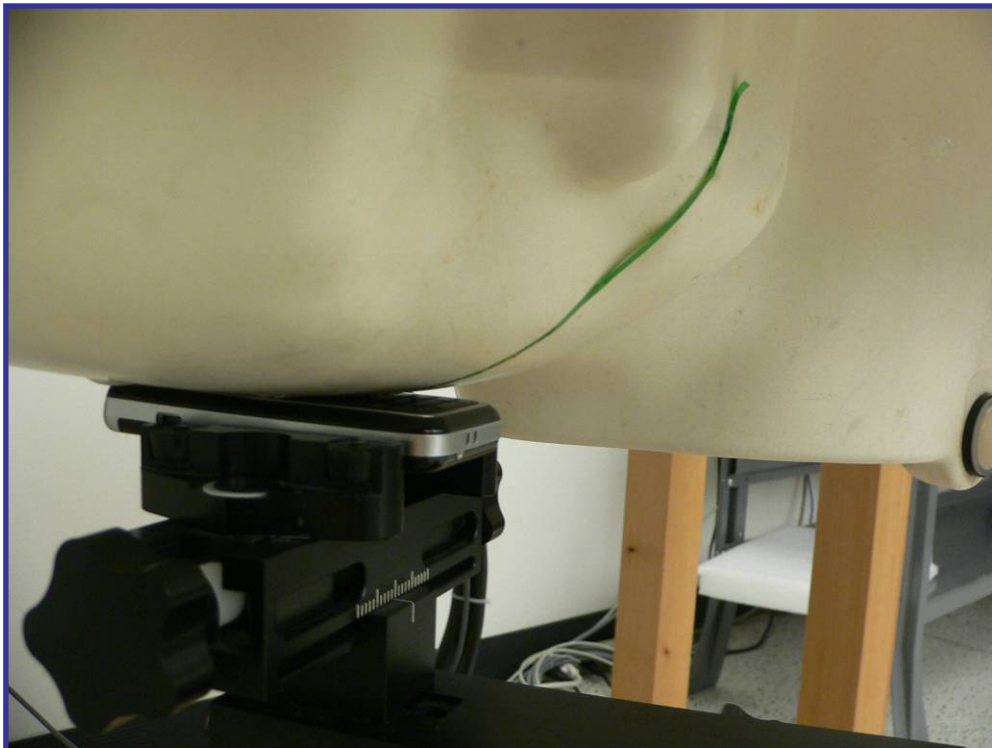
## **APPENDIX H – EUT TEST SET UP PHOTOS**

---

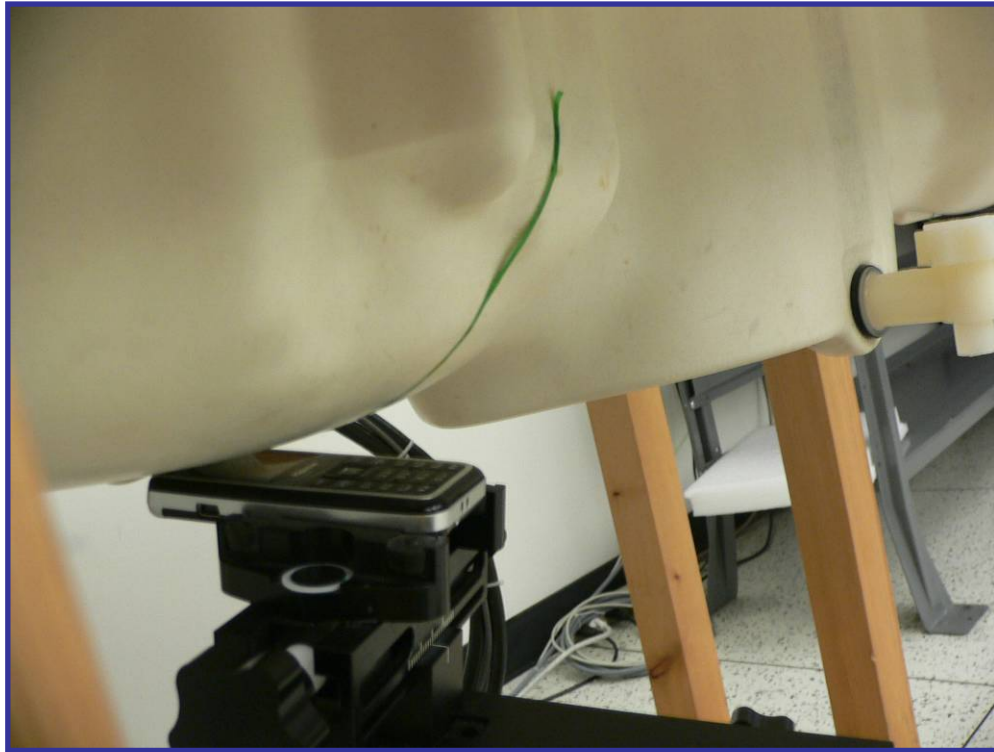
**1.5 cm body worm setup photo with headset**



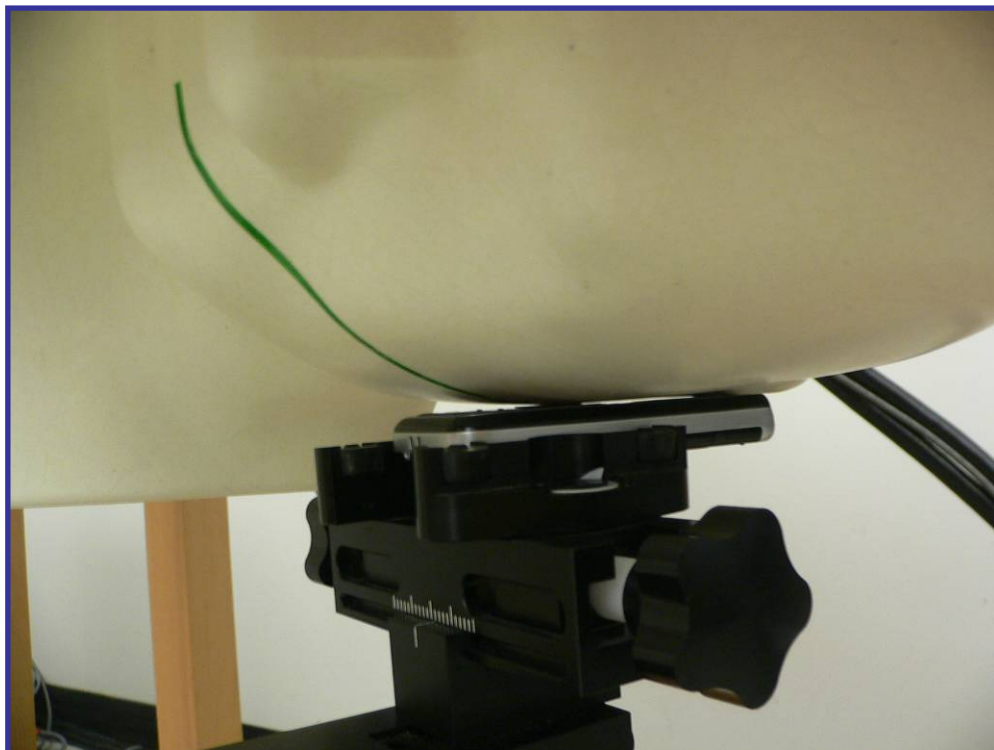
**Left head cheek setup photo**



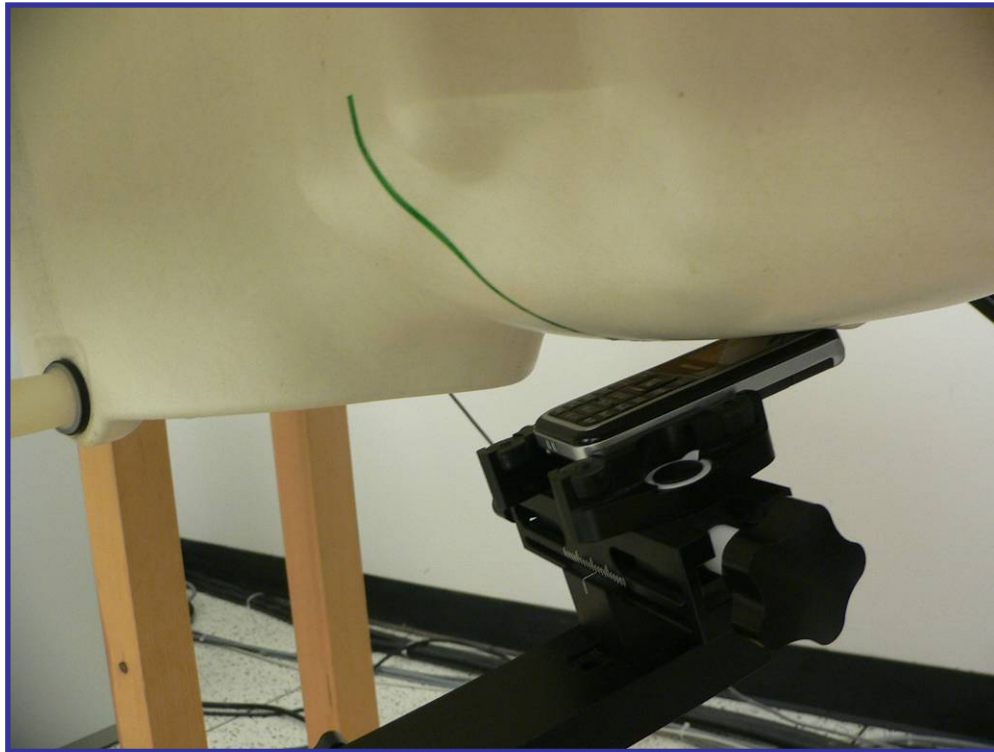
**Left head tilt setup photo**



**Right head cheek setup photo**



**Right head tilt setup photo**



## APPENDIX I – EUT & ACCESSORIES PHOTOS

EUT - Top View



EUT – Back View





**EUT Accessories - Headset**





---

## APPENDIX J - INFORMATIVE REFERENCES

---

- [1] Federal Communications Commission, "Report and order: Guidelines for evaluating the environmental effects of radiofrequency radiation", Tech. Rep. FCC 96-326, FCC, Washington, D.C. 20554, 1996.
- [2] David L. Means Kwok Chan, Robert F. Cleveland, "Evaluating compliance with FCC guidelines for human exposure to radiofrequency electromagnetic fields", Tech. Rep., Federal Communication Commission, Office of Engineering & Technology, Washington, DC, 1997.
- [3] Thomas Schmid, Oliver Egger, and Niels Kuster, "Automated E-field scanning system for dosimetric assessments", IEEE Transactions on Microwave Theory and Techniques, vol. 44, pp. 105-113, Jan. 1996.
- [4] Niels Kuster, Ralph Kastle, and Thomas Schmid, "Dosimetric evaluation of mobile communications equipment with known precision", IEICE Transactions on Communications, vol. E80-B, no. 5, pp. 645-652, May 1997.
- [5] CENELEC, "Considerations for evaluating of human exposure to electromagnetic fields (EMFs) from mobile telecommunication equipment (MTE) in the frequency range 30MHz - 6GHz", Tech. Rep., CENELEC, European Committee for Electrotechnical Standardization, Brussels, 1997.
- [6] ANSI, ANSI/IEEE C95.1-1992: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz, The Institute of Electrical and Electronics Engineers, Inc., New York, NY 10017, 1992.
- [7] Katja Pokovic, Thomas Schmid, and Niels Kuster, "Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequencies", in ICECOM '97, Dubrovnik, October 15-17, 1997, pp. 120-24.
- [8] Katja Pokovic, Thomas Schmid, and Niels Kuster, "E-field probe with improved isotropy in brain simulating liquids", in Proceedings of the ELMAR, Zadar, Croatia, 23-25 June, 1996, pp. 172-175.
- [9] Volker Hombach, Klaus Meier, Michael Burkhardt, Eberhard Kuhn, and Niels Kuster, "The dependence of EM energy absorption upon human head modeling at 900 MHz", IEEE Transactions on Microwave Theory and Techniques, vol. 44, no. 10, pp. 1865-1873, Oct. 1996.
- [10] Klaus Meier, Ralf Kastle, Volker Hombach, Roger Tay, and Niels Kuster, "The dependence of EM energy absorption upon human head modeling at 1800 MHz", IEEE Transactions on Microwave Theory and Techniques, Oct. 1997, in press.
- [11] W. Gander, Computermathematik, Birkhaeuser, Basel, 1992.
- [12] W. H. Press, S. A. Teukolsky, W. T. Vetterling, and B. P. Flannery, Numerical Recipes in C, The Art of Scientific Computing, Second Edition, Cambridge University Press, 1992. Dosimetric Evaluation of Sample device, month 1998 9
- [13] NIS81 NAMAS, "The treatment of uncertainty in EMC measurement", Tech. Rep., NAMAS Executive, National Physical Laboratory, Teddington, Middlesex, England, 1994.
- [14] Barry N. Taylor and Christ E. Kuyatt, "Guidelines for evaluating and expressing the uncertainty of NIST measurement results", Tech. Rep., National Institute of Standards and Technology, 1994. Dosimetric Evaluation of Sample device, month 1998 10.
- [15] SAR Measurement Procedures for 3G Devices \Laboratory Division, Office of Engineering and Technology, Federal Communications Commission.

**END OF REPORT**