

**APPENDIX A: TEST DATA**  
**Liquid Level Photo**

**MSL 835MHz D=155mm**



**MSL 1900MHz D=151mm**



MSL 2450MHz D=150mm



Test Laboratory: Advance Data Technology

### Body Worn-CDMA850(S032)-Ch1013-Mode 1

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 824.7 MHz**

Communication System: CDMA ; Frequency: 824.7 MHz ; Duty Cycle: 1:1 ; Modulation type: OQPSK  
Medium: MSL835 Medium parameters used :  $f = 824.7 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 56.7$ ;  $\rho = 1000 \text{ kg/m}^3$  ; Liquid level : 155 mm  
Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
Antenna type : Internal Antenna ; Air temp. : 23.3 degrees ; Liquid temp. : 22.1 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(6.35, 6.35, 6.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Low Channel 1013/Area Scan (7x10x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) = 0.378 mW/g

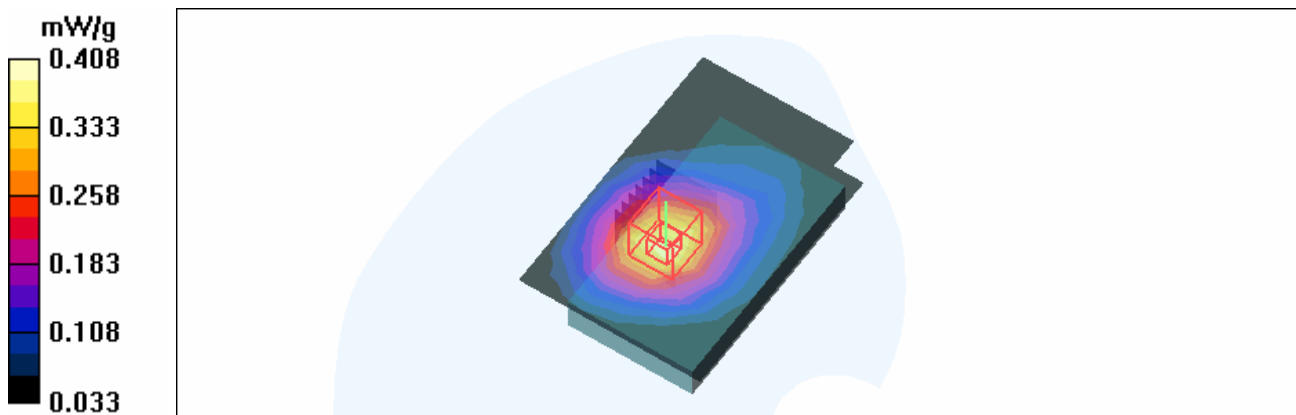
**Low Channel 1013/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

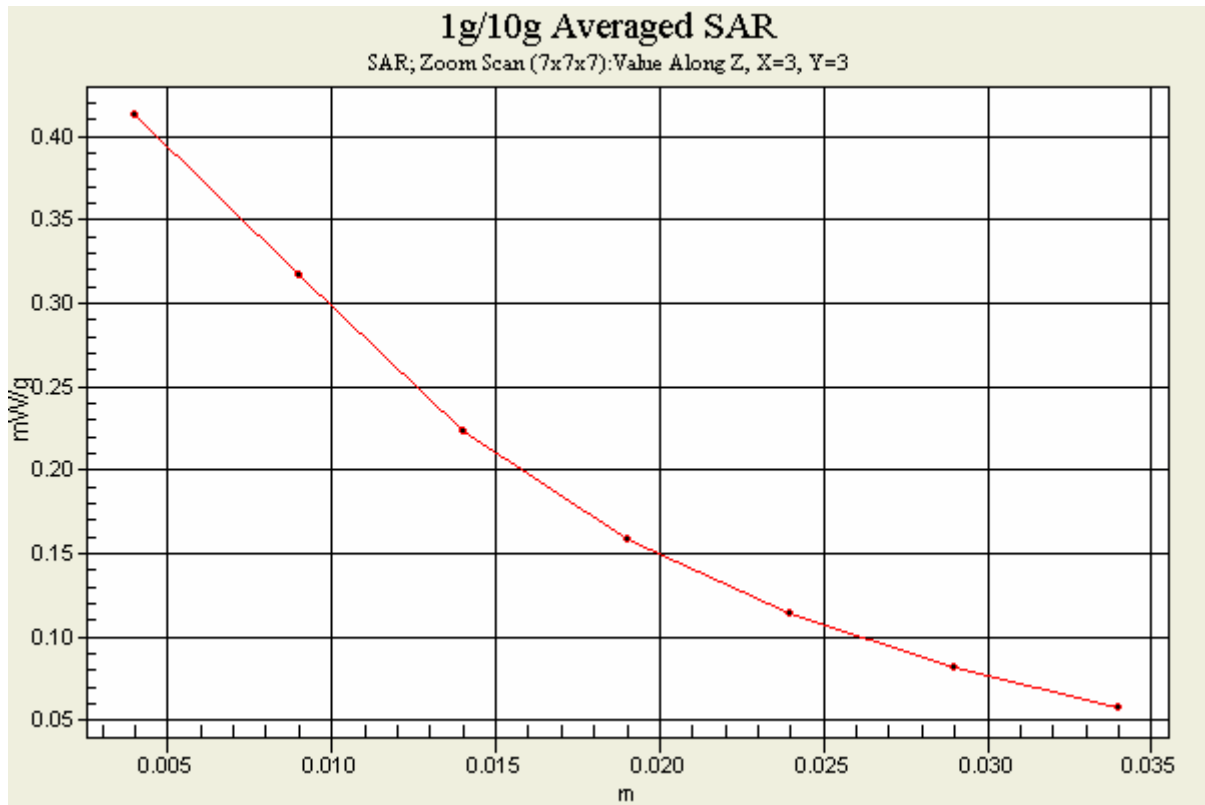
Reference Value = 10.4 V/m

Peak SAR (extrapolated) = 0.459 W/kg

**SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.263 mW/g**

Maximum value of SAR (measured) = 0.408 mW/g





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## Body Worn-CDMA850(S032)-Ch384-Mode 1

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 836.5 MHz**

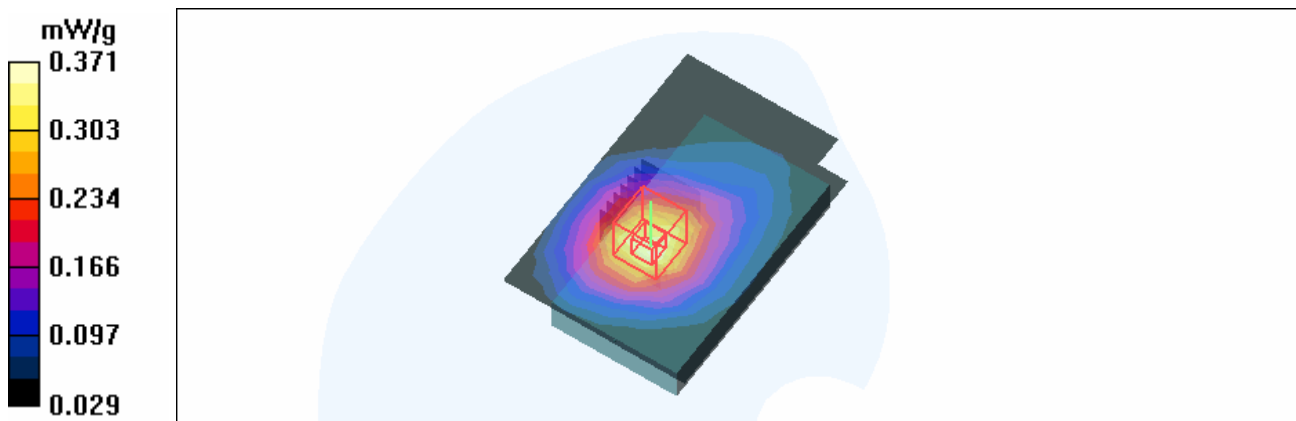
Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1 ; Modulation type: OQPSK  
 Medium: MSL835 Medium parameters used :  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.99 \text{ mho/m}$ ;  $\epsilon_r = 56.6$ ;  $\rho = 1000 \text{ kg/m}^3$  ; Liquid level : 155 mm  
 Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
 Antenna type : Internal Antenna ; Air temp. : 23.3 degrees ; Liquid temp. : 22.1 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(6.35, 6.35, 6.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Mid Channel 384/Area Scan (7x10x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 0.357 mW/g

**Mid Channel 384/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 10.1 V/m  
 Peak SAR (extrapolated) = 0.418 W/kg  
**SAR(1 g) = 0.344 mW/g; SAR(10 g) = 0.238 mW/g**  
 Maximum value of SAR (measured) = 0.371 mW/g



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**Body Worn-CDMA850(S032)-Ch777-Mode 1****DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 848.3 MHz**

Communication System: CDMA ; Frequency: 848.3 MHz ; Duty Cycle: 1:1 ; Modulation type: OQPSK  
Medium: MSL835 Medium parameters used :  $f = 848.3$  MHz;  $\sigma = 1$  mho/m;  $\epsilon_r = 56.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 155 mm  
Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
Antenna type : Internal Antenna ; Air temp. : 23.3 degrees ; Liquid temp. : 22.1 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(6.35, 6.35, 6.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**High Channel 777/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.322 mW/g

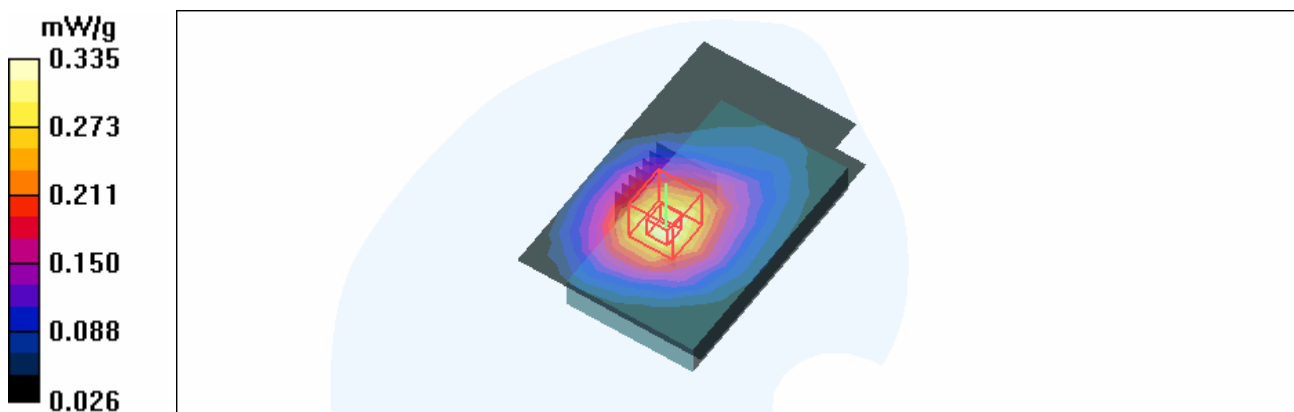
**High Channel 777/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.3 V/m

Peak SAR (extrapolated) = 0.377 W/kg

**SAR(1 g) = 0.310 mW/g; SAR(10 g) = 0.215 mW/g**

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



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## Body Worn-CDMA1900(S032)-Ch25-Mode 2

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 1851.25 MHz**

Communication System: CDMA ; Frequency: 1851.25 MHz ; Duty Cycle: 1:1 ; Modulation type: OQPSK

Medium: MSL1900 Medium parameters used :  $f = 1851.25$  MHz;  $\sigma = 1.52$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.1 degrees ; Liquid temp. : 21.8 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.59, 4.59, 4.59) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Low Channel 25/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.396 mW/g

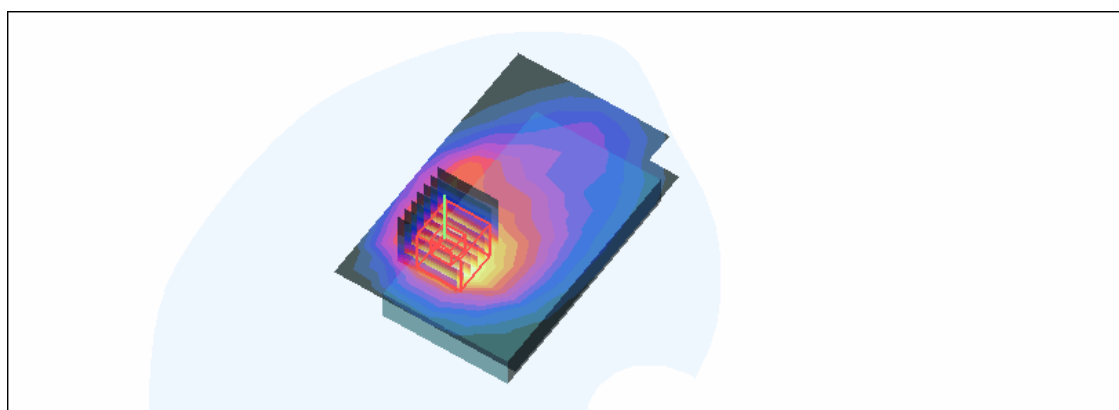
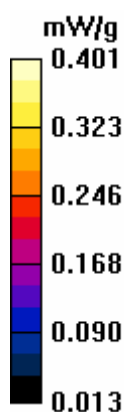
**Low Channel 25/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.2 V/m

Peak SAR (extrapolated) = 0.587 W/kg

**SAR(1 g) = 0.372 mW/g; SAR(10 g) = 0.241 mW/g**

Maximum value of SAR (measured) = 0.401 mW/g



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## Body Worn-CDMA1900(S032)-Ch600-Mode 2

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 1880 MHz**

Communication System: CDMA ; Frequency: 1880 MHz ; Duty Cycle: 1:1 ; Modulation type: OQPSK  
Medium: MSL1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
Antenna type : Internal Antenna ; Air temp. : 23.1 degrees ; Liquid temp. : 21.8 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.59, 4.59, 4.59) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Mid Channel 600/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.433 mW/g

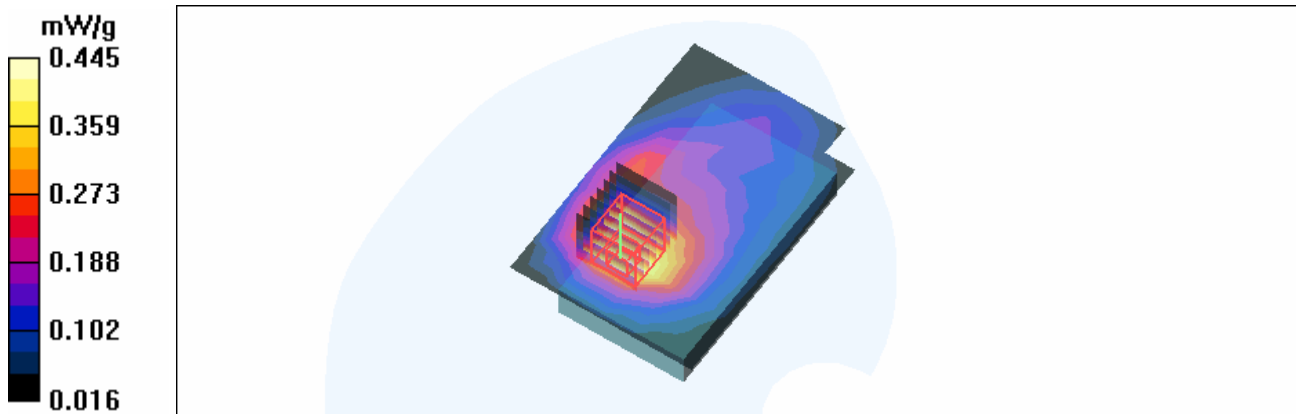
**Mid Channel 600/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.5 V/m

Peak SAR (extrapolated) = 0.650 W/kg

**SAR(1 g) = 0.415 mW/g; SAR(10 g) = 0.268 mW/g**

Maximum value of SAR (measured) = 0.445 mW/g





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## Body Worn-CDMA1900-Ch1175-Mode 2

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 1908.75 MHz**

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1

Medium: MSL1900 Medium parameters used :  $f = 1908.75$  MHz;  $\sigma = 1.59$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.1 degrees ; Liquid temp. : 21.8 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.59, 4.59, 4.59) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**High Channel 1175/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.449 mW/g

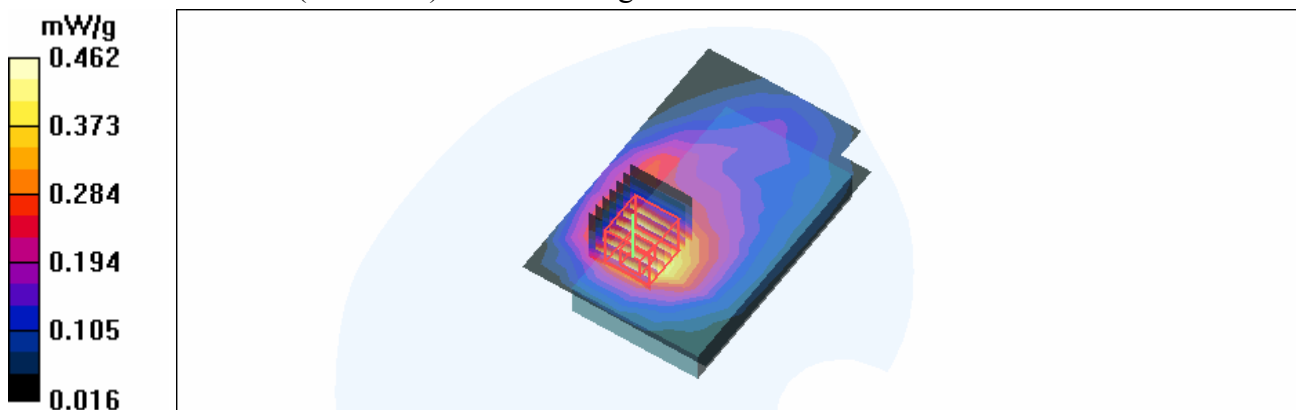
**High Channel 1175/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

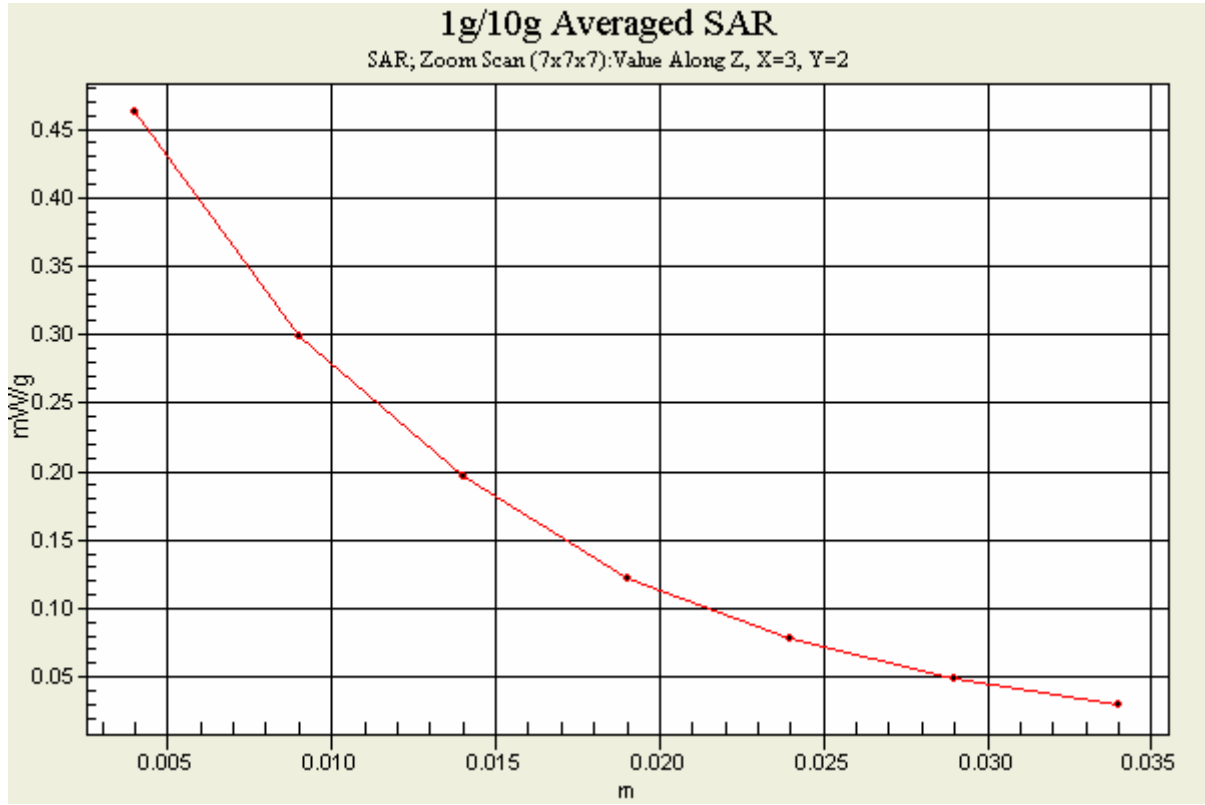
Reference Value = 11.1 V/m

Peak SAR (extrapolated) = 0.675 W/kg

**SAR(1 g) = 0.431 mW/g; SAR(10 g) = 0.279 mW/g**

Maximum value of SAR (measured) = 0.462 mW/g





Test Laboratory: Advance Data Technology

### Body Worn-Keypad Down-11b-Ch1-Mode 3

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 2412 MHz**

Communication System: 802.11b ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK  
 Medium: MSL2450 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm  
 Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
 Antenna type : Internal Antenna ; Air temp. : 23.2 degrees ; Liquid temp. : 22.2 degrees

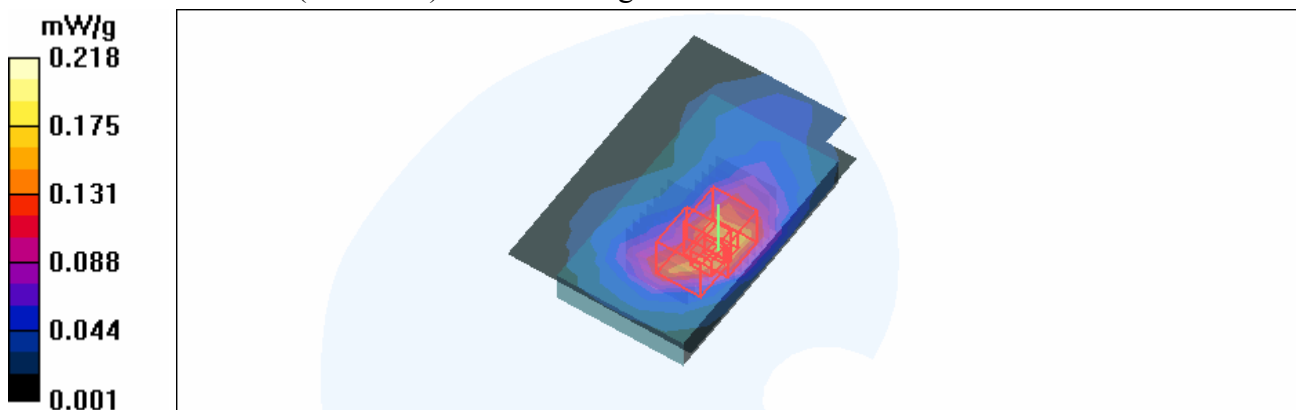
#### DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Low Channel 1/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 0.153 mW/g

**Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 6.24 V/m  
 Peak SAR (extrapolated) = 0.461 W/kg  
**SAR(1 g) = 0.196 mW/g; SAR(10 g) = 0.094 mW/g**  
 Maximum value of SAR (measured) = 0.218 mW/g

**Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 6.24 V/m  
 Peak SAR (extrapolated) = 0.448 W/kg  
**SAR(1 g) = 0.183 mW/g; SAR(10 g) = 0.084 mW/g**  
 Maximum value of SAR (measured) = 0.212 mW/g



Test Laboratory: Advance Data Technology

### Body Worn-Keypad Down-11b-Ch6-Mode 3

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 2437 MHz**

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK  
 Medium: MSL2450 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.2 degrees ; Liquid temp. : 22.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Mid Channel 6/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.203 mW/g

**Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.89 V/m

Peak SAR (extrapolated) = 0.626 W/kg

**SAR(1 g) = 0.265 mW/g; SAR(10 g) = 0.127 mW/g**

Maximum value of SAR (measured) = 0.291 mW/g

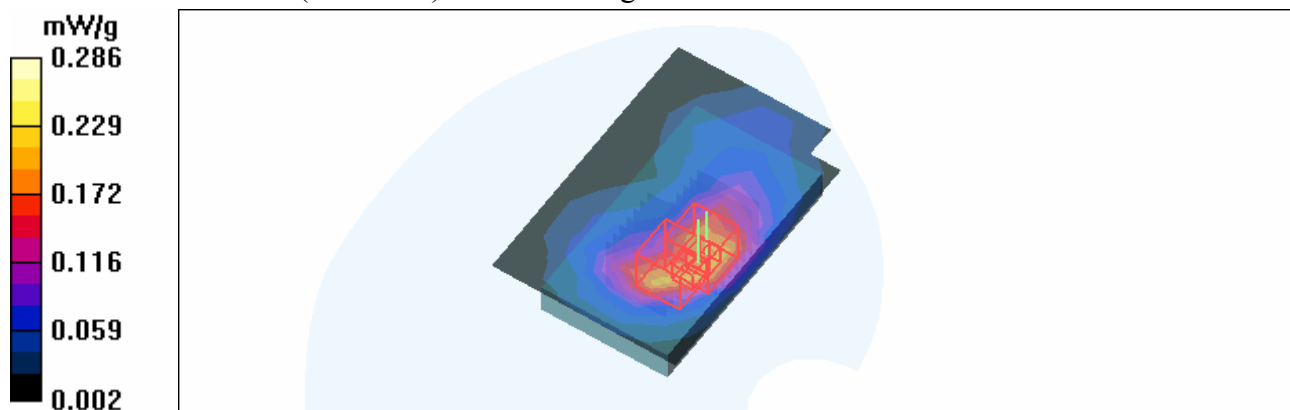
**Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

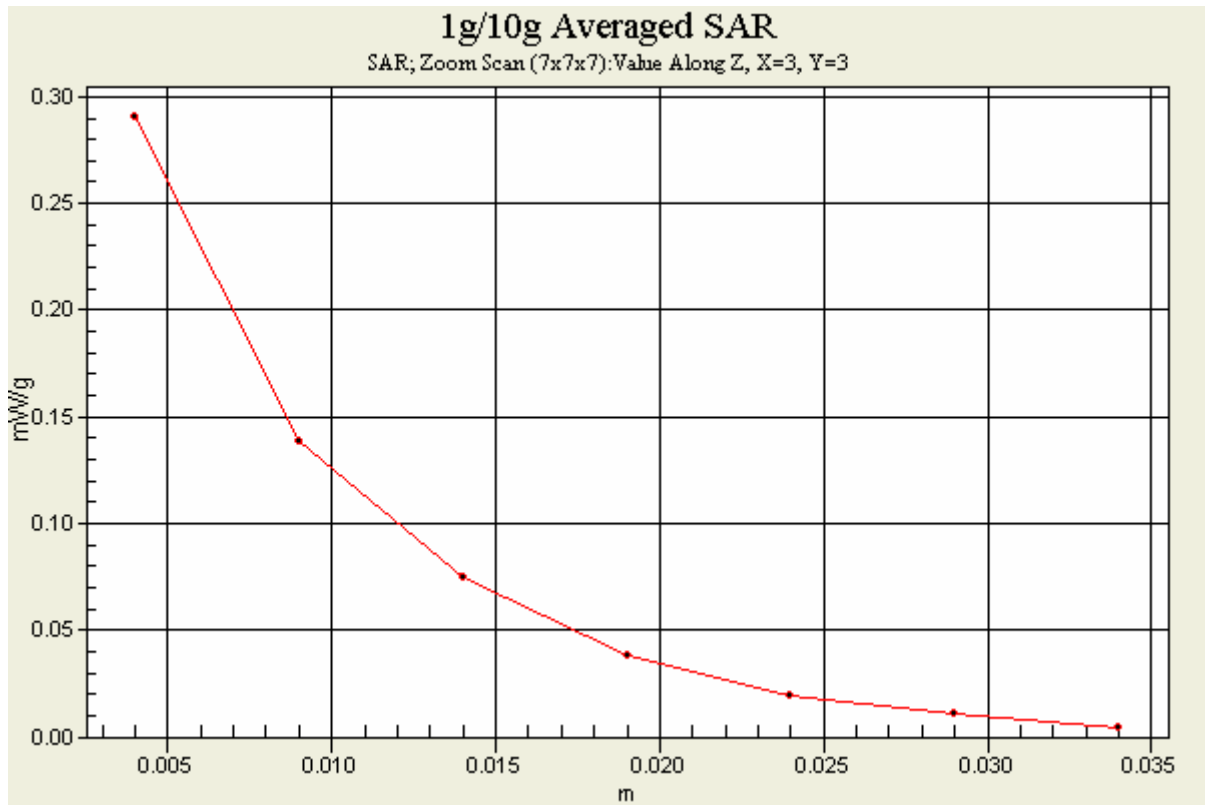
Reference Value = 6.89 V/m

Peak SAR (extrapolated) = 0.609 W/kg

**SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.115 mW/g**

Maximum value of SAR (measured) = 0.286 mW/g





Test Laboratory: Advance Data Technology

### Body Worn-Keypad Down-11b-Ch11-Mode 3

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 2462 MHz**

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK  
 Medium: MSL2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.02$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm  
 Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
 Antenna type : Internal Antenna ; Air temp. : 23.2 degrees ; Liquid temp. : 22.2 degrees

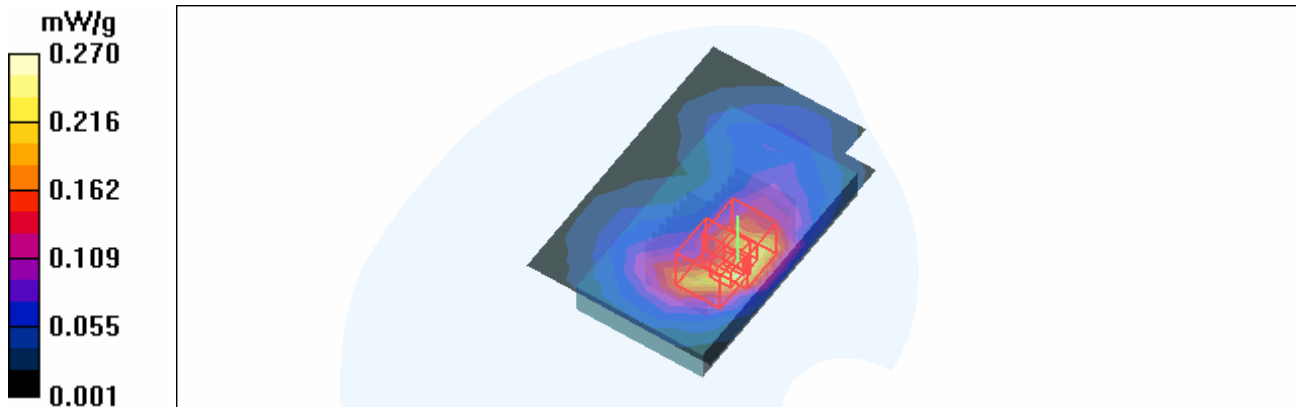
DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**High Channel 11/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 0.228 mW/g

**High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 6.81 V/m  
 Peak SAR (extrapolated) = 0.583 W/kg  
**SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.120 mW/g**  
 Maximum value of SAR (measured) = 0.270 mW/g

**High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 6.81 V/m  
 Peak SAR (extrapolated) = 0.542 W/kg  
**SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.107 mW/g**  
 Maximum value of SAR (measured) = 0.254 mW/g



Test Laboratory: Advance Data Technology

### Body Worn-Keypad Down-11g-Ch1-Mode 4

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 2412 MHz**

Communication System: 802.11g ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK  
 Medium: MSL2450 Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.93 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$  ; Liquid level : 150 mm  
 Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
 Antenna type : Internal Antenna ; Air temp. : 23.2 degrees ; Liquid temp. : 22.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Low Channel 1/Area Scan (7x10x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 0.163 mW/g

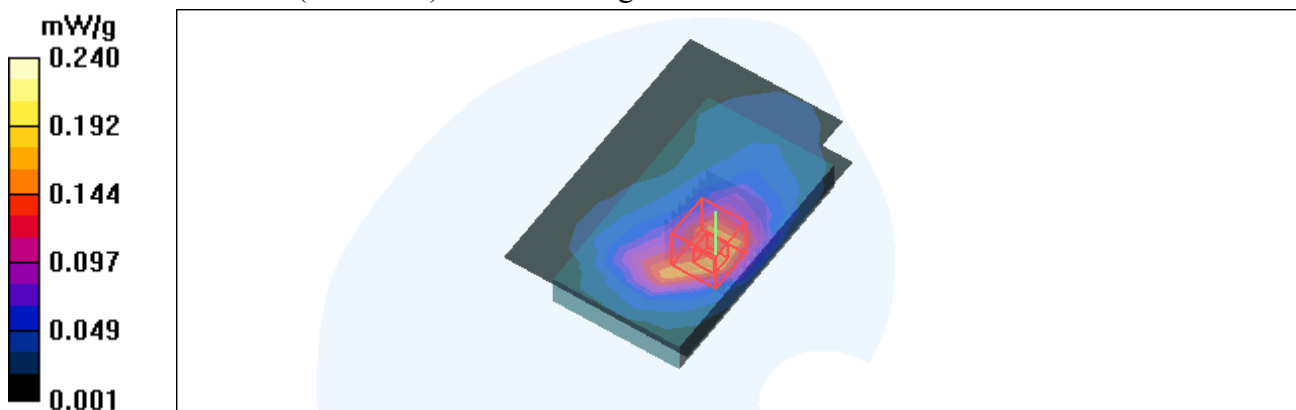
**Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 5.61 V/m

Peak SAR (extrapolated) = 0.538 W/kg

**SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.103 mW/g**

Maximum value of SAR (measured) = 0.240 mW/g



Test Laboratory: Advance Data Technology

## Body Worn-Keypad Down-11g-Ch6-Mode 4

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 2437 MHz**

Communication System: 802.11g ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK  
 Medium: MSL2450 Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.97 \text{ mho/m}$ ;  $\epsilon_r = 54$ ;  $\rho = 1000 \text{ kg/m}^3$  ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
 Antenna type : Internal Antenna ; Air temp. : 23.2 degrees ; Liquid temp. : 22.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Mid Channel 6/Area Scan (7x10x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 0.177 mW/g

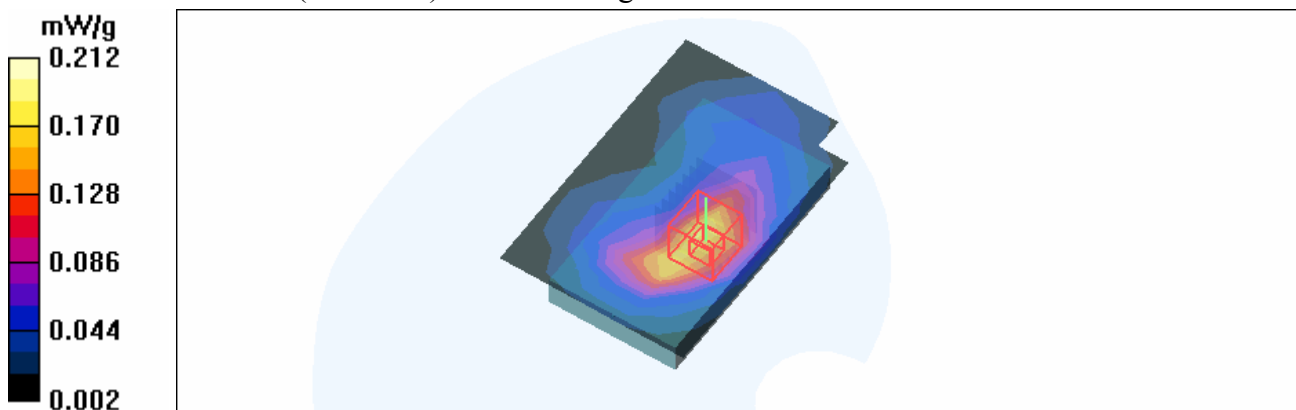
**Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.63 V/m

Peak SAR (extrapolated) = 0.474 W/kg

**SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.096 mW/g**

Maximum value of SAR (measured) = 0.212 mW/g





Test Laboratory: Advance Data Technology

### Body Worn-Keypad Down-11g-Ch11-Mode 4

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 2462 MHz**

Communication System: 802.11g ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK  
Medium: MSL2450 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.02$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm  
Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
Antenna type : Internal Antenna ; Air temp. : 23.2 degrees ; Liquid temp. : 22.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**High Channel 11/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.176 mW/g

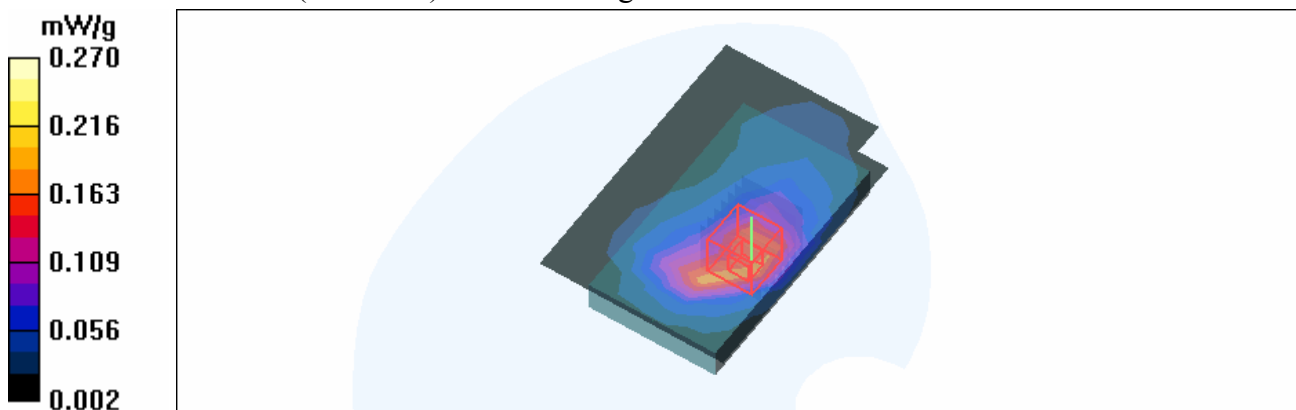
**High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.87 V/m

Peak SAR (extrapolated) = 0.604 W/kg

**SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.114 mW/g**

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



Test Laboratory: Advance Data Technology

## Body Worn-Keypad Down-BT-Ch39-Mode 5

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 2441 MHz**

Communication System: Bluetooth ; Frequency: 2441 MHz ; Duty Cycle: 1:1 ; Modulation type: GFSK  
 Medium: MSL2450 Medium parameters used:  $f = 2441 \text{ MHz}$ ;  $\sigma = 1.98 \text{ mho/m}$ ;  $\epsilon_r = 54$ ;  $\rho = 1000 \text{ kg/m}^3$  ; Liquid level : 150 mm  
 Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
 Antenna type : Internal Antenna ; Air temp. : 23.2 degrees ; Liquid temp. : 22.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Mid Channel 39/Area Scan (7x10x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.004 mW/g

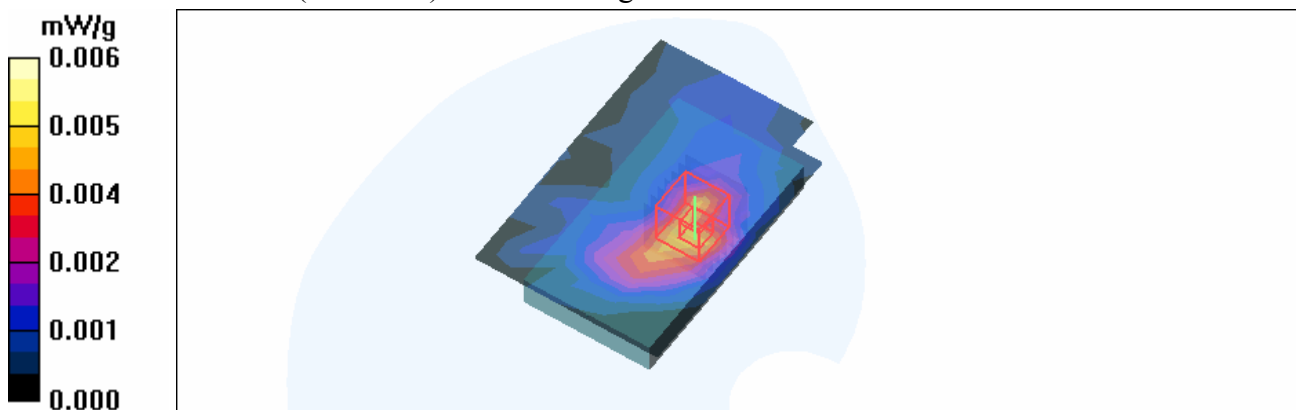
**Mid Channel 39/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 0.519 V/m

Peak SAR (extrapolated) = 0.030 W/kg

**SAR(1 g) = 0.00513 mW/g; SAR(10 g) = 0.00169 mW/g**

Maximum value of SAR (measured) = 0.006 mW/g



Test Laboratory: Advance Data Technology

## Co-located-Body Worn- CDMA850(S032)-Ch1013+11b-Ch6 -Mode 6

**DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 824.2 MHz Frequency: 2437 MHz**

Communication System: CDMA Communication System: 802.11b ; Frequency: 824.2 MHz Frequency: 2437 MHz ; Duty Cycle: 1:1

Medium: MSL835 Medium: MSL2450 Medium parameters used :  $f = 824.2 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 56.7$ ;  $\rho = 1000 \text{ kg/m}^3$  Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.97 \text{ mho/m}$ ;  $\epsilon_r = 54$ ;  $\rho = 1000 \text{ kg/m}^3$  ; Liquid Level : 155 mm

Phantom section: Flat Section ; DUT test position : Body ; Modulation Type: OQPSK

Separation Distance : 0 mm ( The bottom side of the EUT to the Phantom)

Antenna Type : Internal Antenna ; Air Temp. : 23.3 degrees ; Liquid Temp. : 22.1 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(6.35, 6.35, 6.35)ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Low Channel 1013/Area Scan (7x10x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

**Low Channel 1013/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 10.4 V/m

Peak SAR (extrapolated) = 0.459 W/kg

**SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.263 mW/g**

Maximum value of SAR (measured) = 0.408 mW/g

**Mid Channel 6/Area Scan (7x10x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.203 mW/g

**Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.89 V/m

Peak SAR (extrapolated) = 0.626 W/kg

**SAR(1 g) = 0.265 mW/g; SAR(10 g) = 0.127 mW/g**

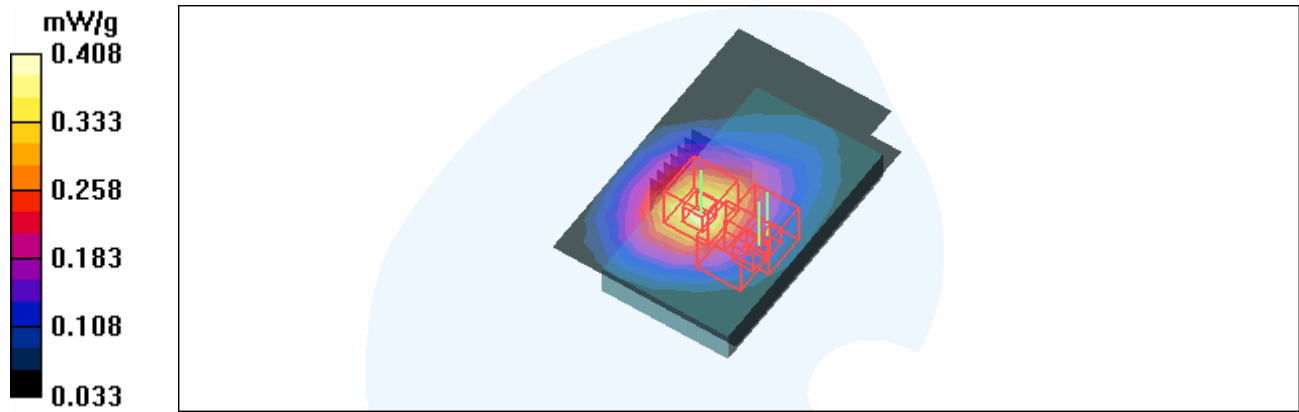
Maximum value of SAR (measured) = 0.291 mW/g

**Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 1:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.89 V/m

Peak SAR (extrapolated) = 0.609 W/kg

**SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.115 mW/g**  
Maximum value of SAR (measured) = 0.286 mW/g



Test Laboratory: Advance Data Technology

**Co-located-Body Worn-CDMA850(S032)-Ch1013+BT-Ch39-Mode 7****DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 824.2 MHz Frequency: 2441 MHz**

Communication System: CDMA Communication System: Bluetooth ; Frequency: 824.2 MHz Frequency: 2441 MHz ; Duty Cycle: 1:1

Medium: MSL835 Medium: MSL2450 Medium parameters used :  $f = 824.2 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 56.7$ ;  $\rho = 1000 \text{ kg/m}^3$  Medium parameters used:  $f = 2441 \text{ MHz}$ ;  $\sigma = 1.98 \text{ mho/m}$ ;  $\epsilon_r = 54$ ;  $\rho = 1000 \text{ kg/m}^3$  ; Liquid Level : 155 mm

Phantom section: Flat Section ; DUT test position : Body ; Modulation Type: OQPSK

Separation Distance : 0 mm ( The bottom side of the EUT to the Phantom)

Antenna Type : Internal Antenna ; Air Temp. : 23.3 degrees ; Liquid Temp. : 22.1 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(6.35, 6.35, 6.35)ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Low Channel 1013/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

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

**Low Channel 1013/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.4 V/m

Peak SAR (extrapolated) = 0.459 W/kg

**SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.263 mW/g**

Maximum value of SAR (measured) = 0.408 mW/g

**Mid Channel 39/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.004 mW/g

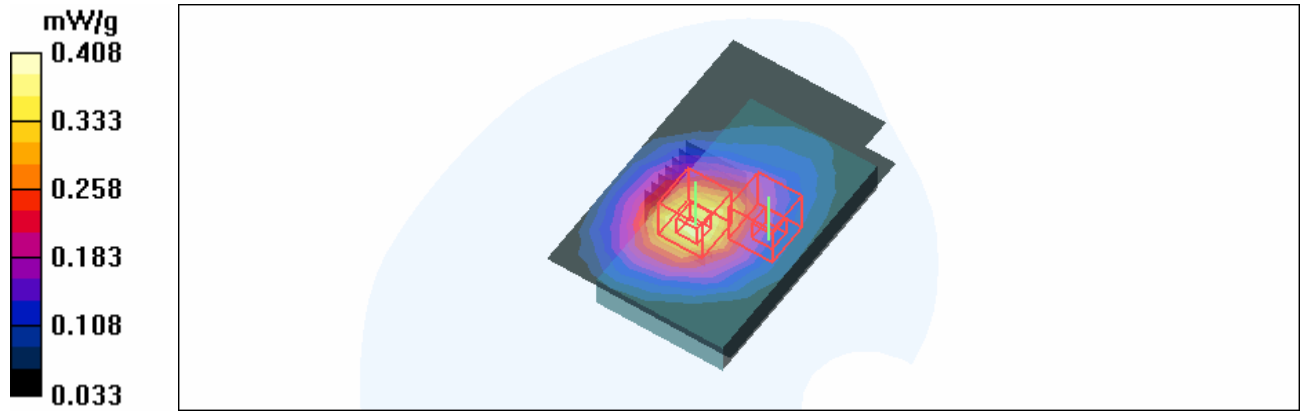
**Mid Channel 39/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.519 V/m

Peak SAR (extrapolated) = 0.030 W/kg

**SAR(1 g) = 0.00513 mW/g; SAR(10 g) = 0.00169 mW/g**

Maximum value of SAR (measured) = 0.006 mW/g



Test Laboratory: Advance Data Technology

**Co-located-Body Worn- CDMA1900(S032)-Ch1175+11b-Ch6-Mode 8****DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 1908.75 MHz Frequency: 2437 MHz**

Communication System: CDMA Communication System: 802.11b ; Frequency: 1908.75 MHz Frequency: 2437 MHz ; Duty Cycle: 1:1

Medium: MSL1900 Medium: MSL2450 Medium parameters used :  $f = 1908.75 \text{ MHz}$ ;  $\sigma = 1.59 \text{ mho/m}$ ;  $\epsilon_r = 53.8$ ;  $\rho = 1000 \text{ kg/m}^3$  Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.97 \text{ mho/m}$ ;  $\epsilon_r = 54$ ;  $\rho = 1000 \text{ kg/m}^3$  ; Liquid Level : 151 mm

Phantom section: Flat Section ; DUT test position : Body ; Modulation Type: OQPSK

Separation Distance : 0 mm ( The bottom side of the EUT to the Phantom)

Antenna Type : Internal Antenna ; Air Temp. : 23.1 degrees ; Liquid Temp. : 21.8 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.59, 4.59, 4.59)ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**High Channel 1175/Area Scan (7x10x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 0.449 mW/g

**High Channel 1175/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 11.1 V/m

Peak SAR (extrapolated) = 0.675 W/kg

**SAR(1 g) = 0.431 mW/g; SAR(10 g) = 0.279 mW/g**

Maximum value of SAR (measured) = 0.462 mW/g

**Mid Channel 6/Area Scan (7x10x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 0.203 mW/g

**Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 6.89 V/m

Peak SAR (extrapolated) = 0.626 W/kg

**SAR(1 g) = 0.265 mW/g; SAR(10 g) = 0.127 mW/g**

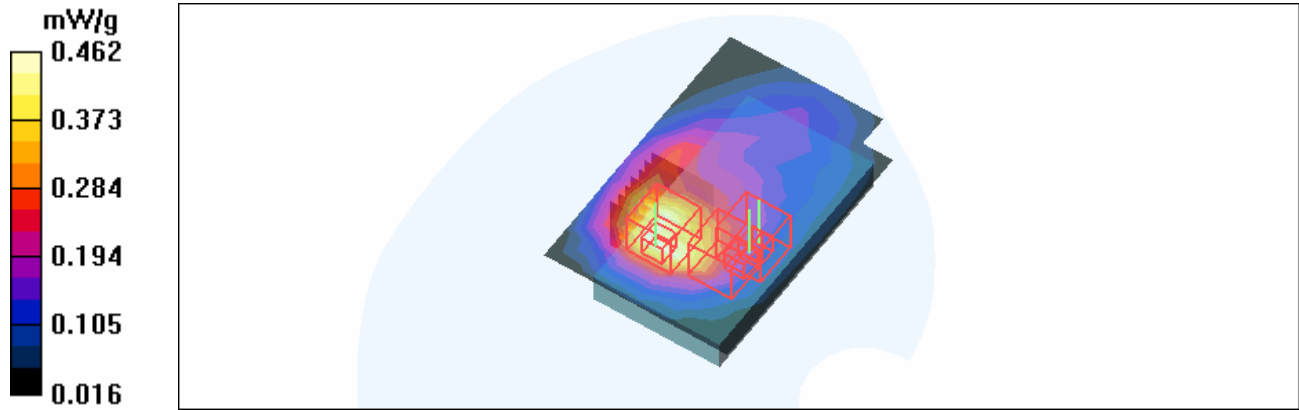
Maximum value of SAR (measured) = 0.291 mW/g

**Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 1:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 6.89 V/m

Peak SAR (extrapolated) = 0.609 W/kg

**SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.115 mW/g**  
Maximum value of SAR (measured) = 0.286 mW/g





Test Laboratory: Advance Data Technology

**Co-located-Body Worn- CDMA1900(S032)-Ch1175+BT-Ch39-Mode 9****DUT: Smart Phone ; Type: IRIS100 ; Test Frequency: 1908.75 MHz Frequency: 2441 MHz**

Communication System: CDMA Communication System: Bluetooth ; Frequency: 1908.75 MHz Frequency: 2441 MHz ; Duty Cycle: 1:1

Medium: MSL1900 Medium: MSL2450 Medium parameters used :  $f = 1908.75$  MHz;  $\sigma = 1.59$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid Level : 151 mm

Phantom section: Flat Section ; DUT test position : Body ; Modulation Type: OQPSK

Separation Distance : 0 mm ( The bottom side of the EUT to the Phantom)

Antenna Type : Internal Antenna ; Air Temp. : 23.1 degrees ; Liquid Temp. : 21.8 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.59, 4.59, 4.59)ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**High Channel 1175/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.449 mW/g

**High Channel 1175/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.1 V/m

Peak SAR (extrapolated) = 0.675 W/kg

**SAR(1 g) = 0.431 mW/g; SAR(10 g) = 0.279 mW/g**

Maximum value of SAR (measured) = 0.462 mW/g

**Mid Channel 39/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.004 mW/g

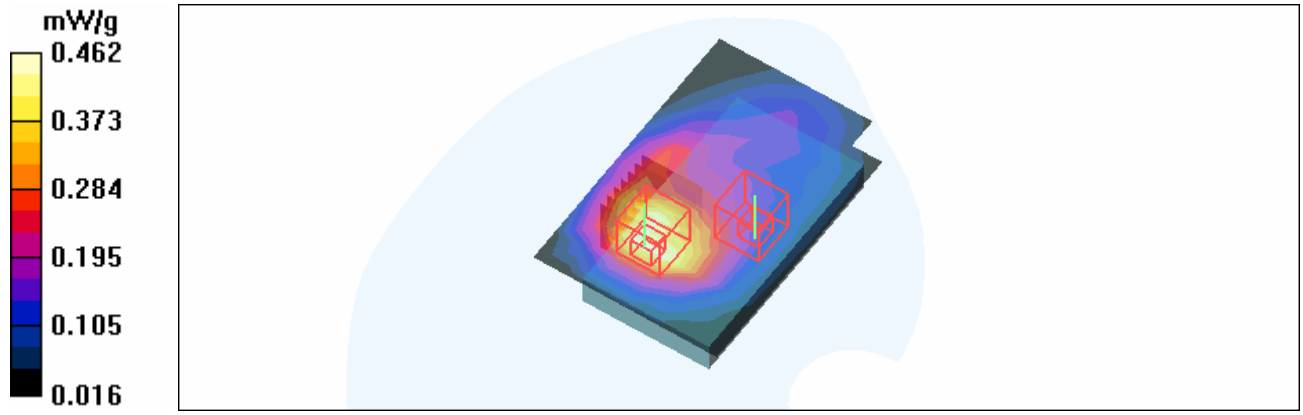
**Mid Channel 39/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.519 V/m

Peak SAR (extrapolated) = 0.030 W/kg

**SAR(1 g) = 0.00513 mW/g; SAR(10 g) = 0.00169 mW/g**

Maximum value of SAR (measured) = 0.006 mW/g



Test Laboratory: Advance Data Technology

## System Validation Check-MSL 835MHz

**DUT: Dipole 850 MHz ; Type: D835V2 ; Serial: 4d021 ; Test Frequency: 835 MHz**

Communication System: CW ; Frequency: 835 MHz; Duty Cycle: 1:1; Modulation type: CW  
 Medium: MSL835; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.99 \text{ mho/m}$ ;  $\epsilon_r = 56.6$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Liquid level : 155 mm  
 Phantom section: Flat Section ; Separation distance : 15 mm (The feetpoint of the dipole to the Phantom)  
 Air temp. : 23.3 degrees ; Liquid temp. : 22.1 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(6.35, 6.35, 6.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2007/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**d=15mm, Pin=250mW/Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 2.41 mW/g

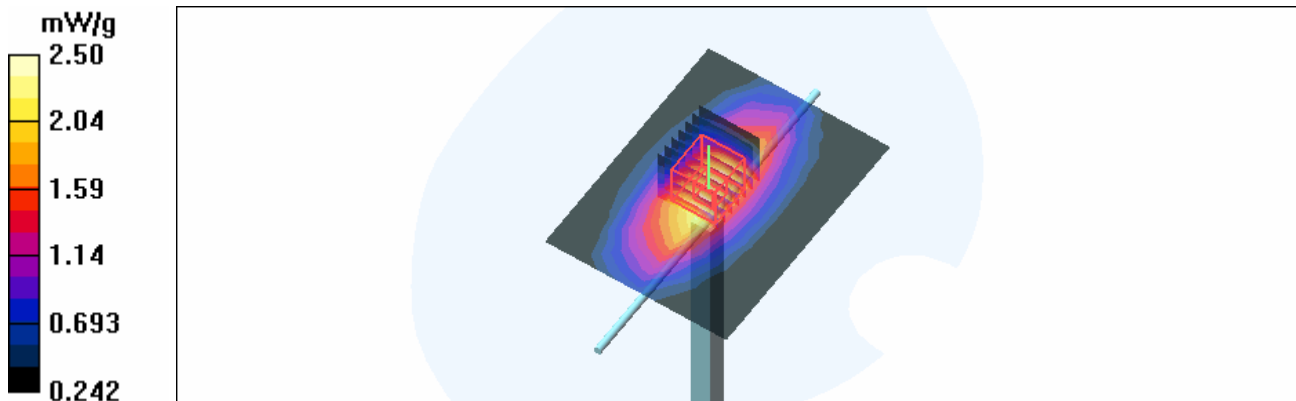
**d=15mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.7 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 2.96 W/kg

**SAR(1 g) = 2.3 mW/g; SAR(10 g) = 1.54 mW/g**

Maximum value of SAR (measured) = 2.50 mW/g



Test Laboratory: Advance Data Technology

## System Validation Check-MSL 1900MHz

**DUT: Dipole 1900 MHz ; Type: D1900V2 ; Serial: 5d036 ; Test Frequency: 1900 MHz**

Communication System: CW ; Frequency: 1900 MHz; Duty Cycle: 1:1; Modulation type: CW  
 Medium: MSL1900; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 151 mm  
 Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23.1 degrees ; Liquid temp. : 21.8 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.59, 4.59, 4.59) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2007/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**d=10mm, Pin=250mW/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 10.7 mW/g

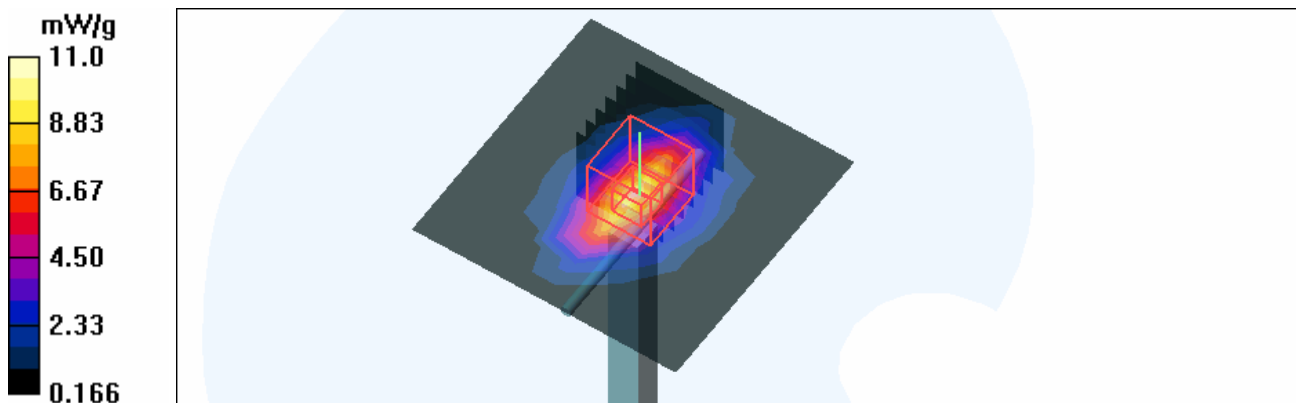
**d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.0 V/m; Power Drift = -0.070 dB

Peak SAR (extrapolated) = 16.7 W/kg

**SAR(1 g) = 9.48 mW/g; SAR(10 g) = 5.09 mW/g**

Maximum value of SAR (measured) = 11.0 mW/g



Test Laboratory: Advance Data Technology

## System Validation Check-MSL 2450MHz

**DUT: Dipole 2450 MHz ; Type: D2450V2 ; Serial: 737 ; Test Frequency: 2450 MHz**

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW  
 Medium: MSL2450; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Liquid level : 150 mm  
 Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom)  
 Air temp. : 23.2 degrees ; Liquid temp. : 22.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2007/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**d=10mm, Pin=250mW/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 14.3 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.1 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 29.2 W/kg

**SAR(1 g) = 12.8 mW/g; SAR(10 g) = 5.88 mW/g**

