

Test Laboratory: BTL Inc.

Date: 04/02/2016

**T01\_GSM 850\_GSM\_CH190\_Right Cheek**

**DUT: 1603C159;**

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.902$  S/m;  $\epsilon_r = 42.23$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(10.49, 10.49, 10.49); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.373 W/kg

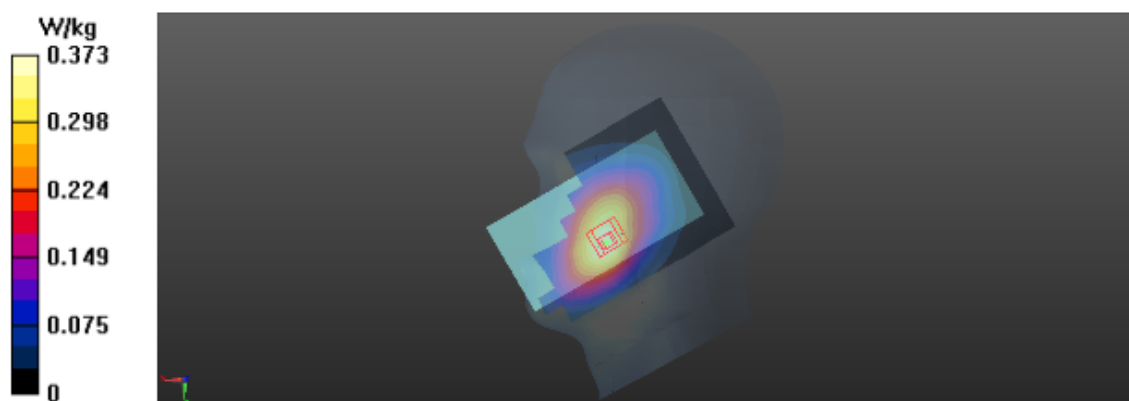
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.628 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.443 W/kg

**SAR(1 g) = 0.354 W/kg; SAR(10 g) = 0.271 W/kg**

Maximum value of SAR (measured) = 0.372 W/kg



Test Laboratory: BTL Inc.

Date: 04/03/2016

**T08\_GSM 1900\_GSM\_CH661\_Left Cheek**

**DUT: 1603C159;**

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.413$  S/m;  $\epsilon_r = 39.879$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.36, 8.36, 8.36); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x13x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.451 W/kg

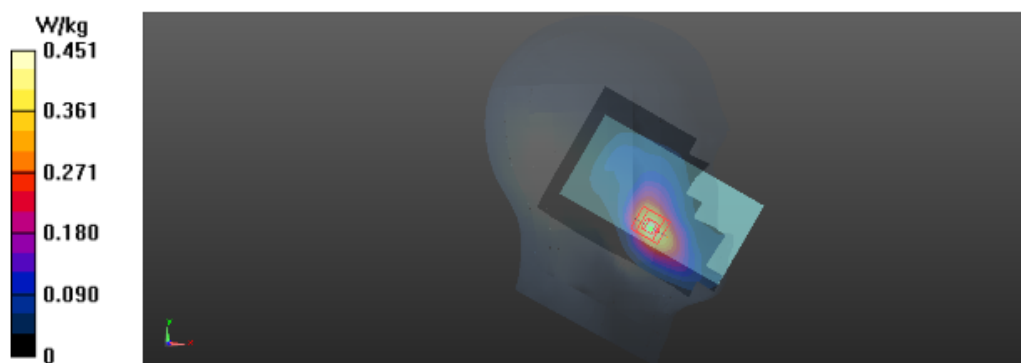
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.980 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.581 W/kg

**SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.242 W/kg**

Maximum value of SAR (measured) = 0.414 W/kg



Test Laboratory: BTL Inc.

Date: 04/03/2016

# **T15\_WCDMA B2\_RMC 12.2K\_CH9400\_Left Cheek\_Battery 2**

**DUT: 1603C159;**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.413$  S/m;  $\epsilon_r = 39.879$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.36, 8.36, 8.36); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.531 W/kg

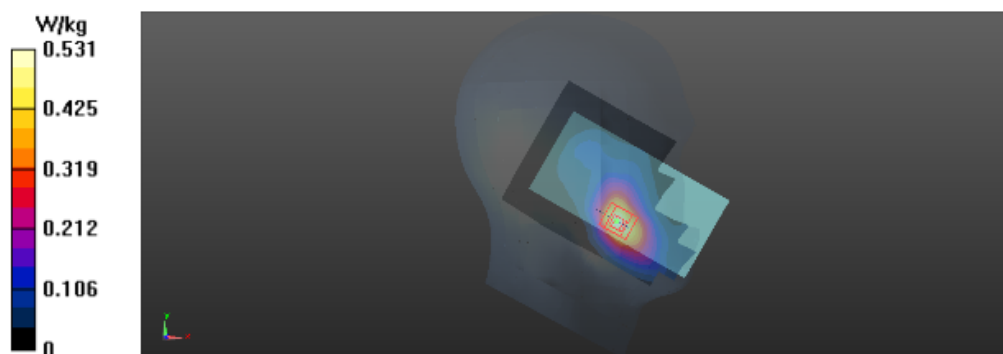
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.137 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.691 W/kg

**SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.290 W/kg**

Maximum value of SAR (measured) = 0.493 W/kg



Test Laboratory: BTL Inc.

Date: 04/05/2016

## T20\_WCDMA B4\_RMC 12.2K\_CH1413\_Left Cheek\_Battery 2

DUT: 1603C159;

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.312$  S/m;  $\epsilon_r = 41.601$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.68, 8.68, 8.68); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.678 W/kg

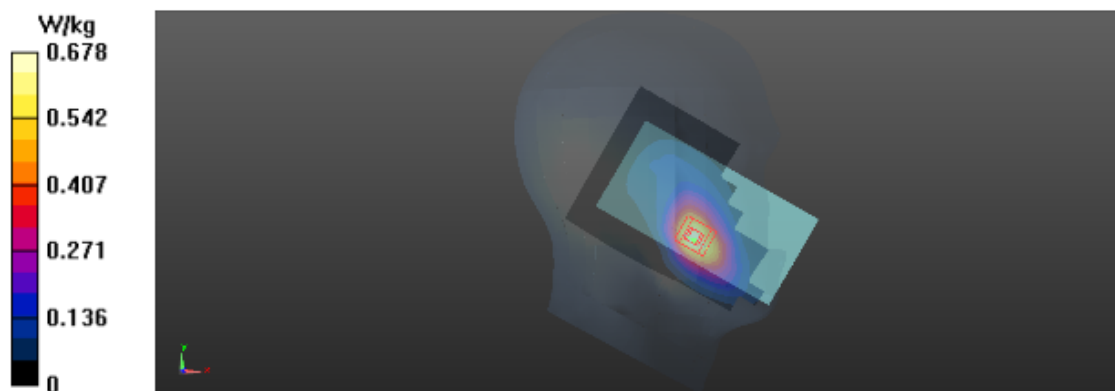
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.305 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.922 W/kg

**SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.384 W/kg**

Maximum value of SAR (measured) = 0.655 W/kg



Test Laboratory: BTL Inc.

Date: 04/02/2016

## T25\_WCDMA B5\_RMC 12.2K\_CH4182\_Right Cheek\_Battery 2

DUT: 1603C159;

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.902$  S/m;  $\epsilon_r = 42.23$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(10.49, 10.49, 10.49); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.411 W/kg

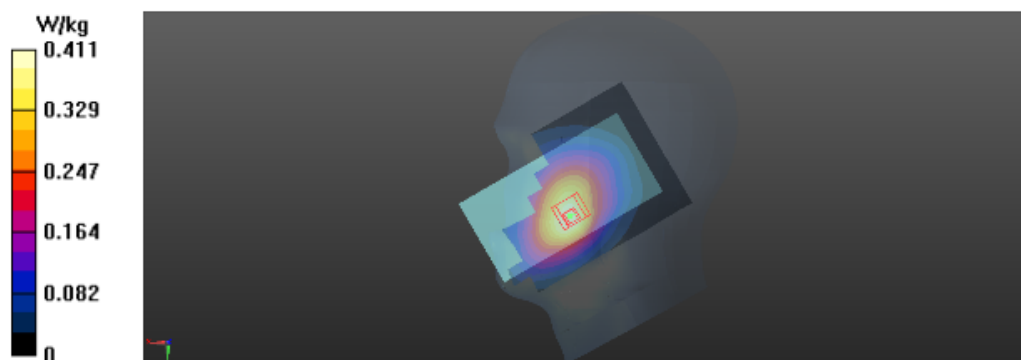
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.704 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.497 W/kg

**SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.296 W/kg**

Maximum value of SAR (measured) = 0.409 W/kg



Test Laboratory: BTL Inc.

Date: 04/03/2016

## T209\_LTE B2\_QPSK 20M\_CH18900\_1RB\_Left Cheek\_Battery 2

DUT: 1603C159;

Communication System: UID 0, LTE-FDD(1RB, 20MHz, QPSK) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.413$  S/m;  $\epsilon_r = 39.879$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.36, 8.36, 8.36); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.399 W/kg

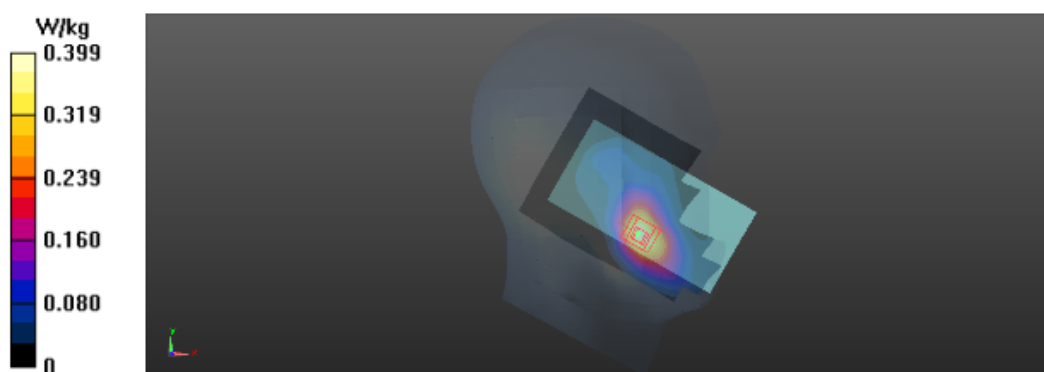
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.583 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.585 W/kg

**SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.244 W/kg**

Maximum value of SAR (measured) = 0.410 W/kg



Test Laboratory: BTL Inc.

Date: 04/05/2016

## **T218\_LTE B4\_QPSK 20M\_CH20175\_1RB\_Left Cheek\_Battery 2**

**DUT: 1603C159;**

Communication System: UID 0, LTE-FDD(1RB, 20MHz, QPSK) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.312$  S/m;  $\epsilon_r = 41.602$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.68, 8.68, 8.68); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.301 W/kg

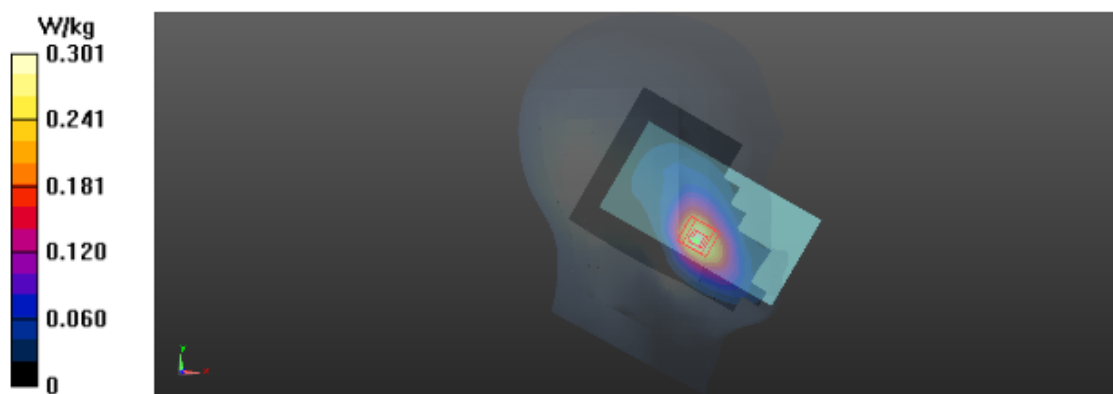
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.917 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.399 W/kg

**SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.166 W/kg**

Maximum value of SAR (measured) = 0.284 W/kg



Test Laboratory: BTL Inc.

Date: 04/02/2016

## T227\_LTE B5\_QPSK 10M\_CH20525\_1RB\_Right Cheek\_Battery 2

DUT: 1603C159;

Communication System: UID 0, LTE-FDD(1RB, 10MHz, QPSK) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.901$  S/m;  $\epsilon_r = 42.236$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(10.49, 10.49, 10.49); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.280 W/kg

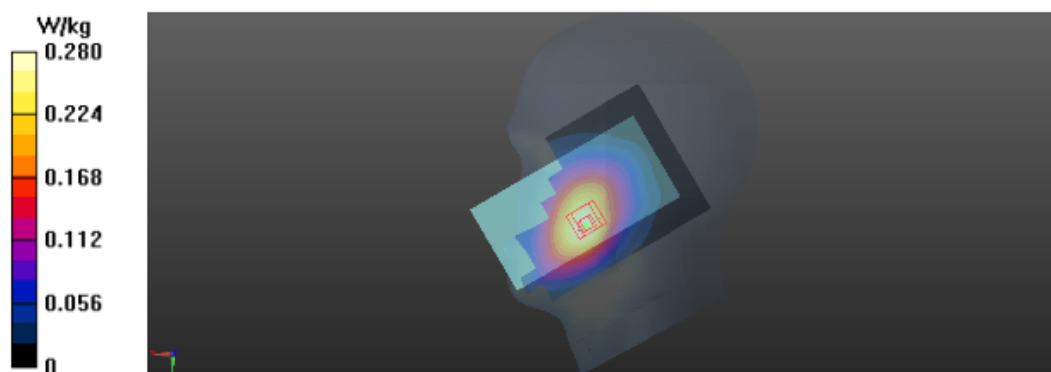
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.130 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.332 W/kg

**SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.203 W/kg**

Maximum value of SAR (measured) = 0.276 W/kg



Test Laboratory: BTL Inc.

Date: 04/01/2016

**T228\_LTE B7\_QPSK 20M\_CH21100\_1RB\_Right Cheek**

**DUT: 1603C159;**

Communication System: UID 0, LTE-FDD(1RB, 20MHz, QPSK) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 1.978$  S/m;  $\epsilon_r = 38.261$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(6.88, 6.88, 6.88); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (11x17x1):** Interpolated grid:  $dx=12$  mm,  $dy=12$  mm

Maximum value of SAR (interpolated) = 0.147 W/kg

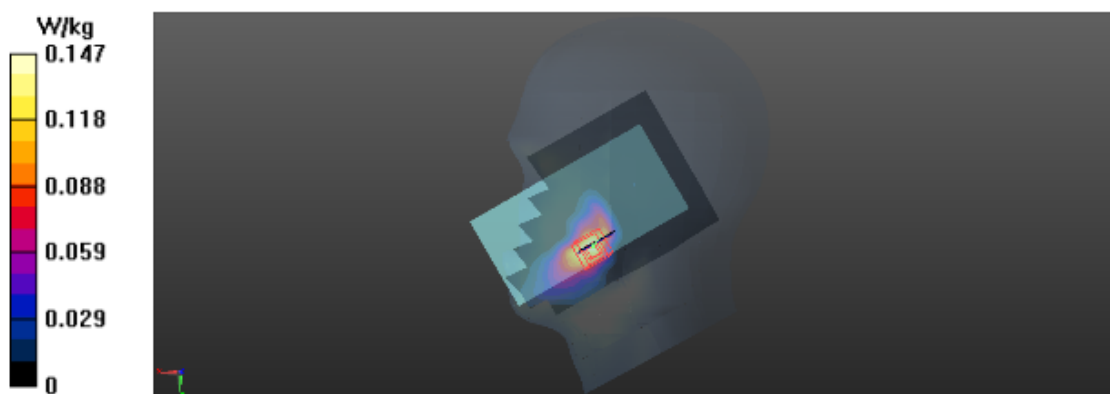
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 1.066 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.213 W/kg

**SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.059 W/kg**

Maximum value of SAR (measured) = 0.123 W/kg



Test Laboratory: BTL Inc.

Date: 04/16/2016

**T403\_802.11b\_CH6\_Left Cheek**

**DUT: 1603C159;**

Communication System: UID 0, IEEE 802.11b WiFi 2.4GHz (DSSS, 1Mbps) (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.847$  S/m;  $\epsilon_r = 39.137$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.24, 7.24, 7.24); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (11x18x1):** Interpolated grid:  $dx=12$  mm,  $dy=12$  mm

Maximum value of SAR (interpolated) = 0.606 W/kg

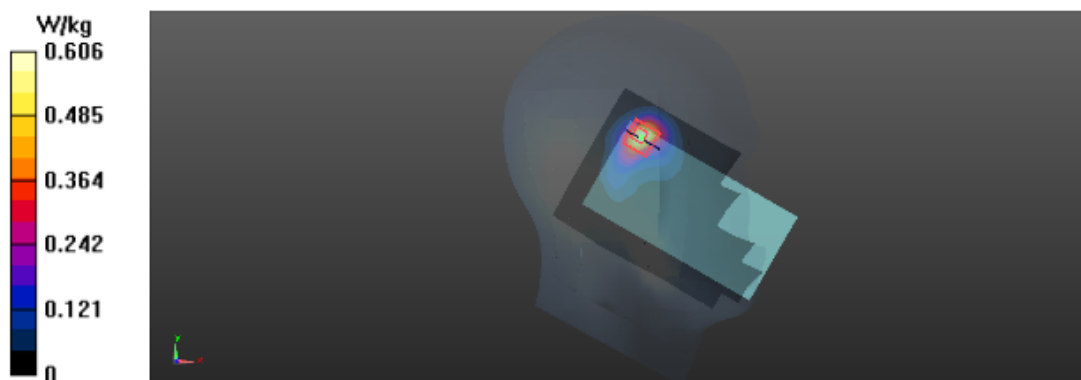
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 8.392 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.146 W/kg**

Maximum value of SAR (measured) = 0.572 W/kg



Test Laboratory: BTL Inc.

Date: 04/11/2016

**T31\_GSM 850\_GSM\_CH190\_Front Face\_1.5cm**

**DUT: 1603C159;**

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.974$  S/m;  $\epsilon_r = 54.18$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(10.22, 10.22, 10.22); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.344 W/kg

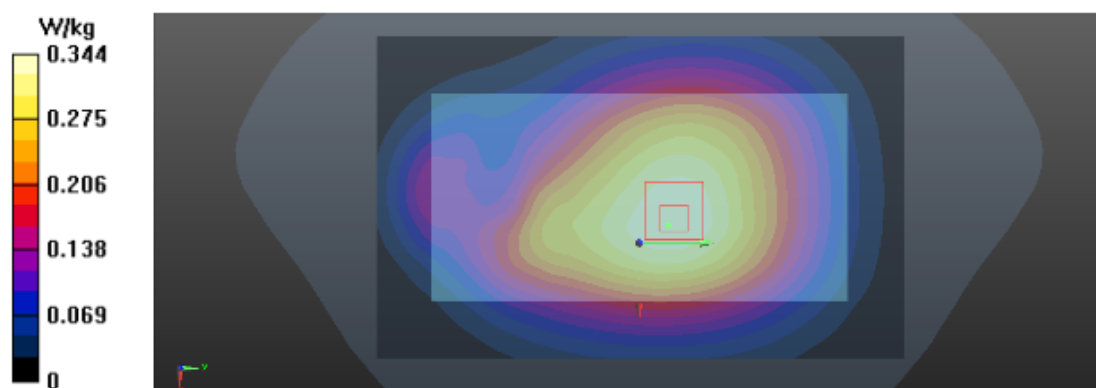
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.19 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.418 W/kg

**SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.254 W/kg**

Maximum value of SAR (measured) = 0.344 W/kg



Test Laboratory: BTL Inc.

Date: 04/11/2016

**T34\_GSM 850\_GPRS 2TX\_CH190\_Front Face\_1cm**

**DUT: 1603C159;**

Communication System: UID 0, GPRS 2TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.00037

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.974$  S/m;  $\epsilon_r = 54.18$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(10.22, 10.22, 10.22); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.459 W/kg

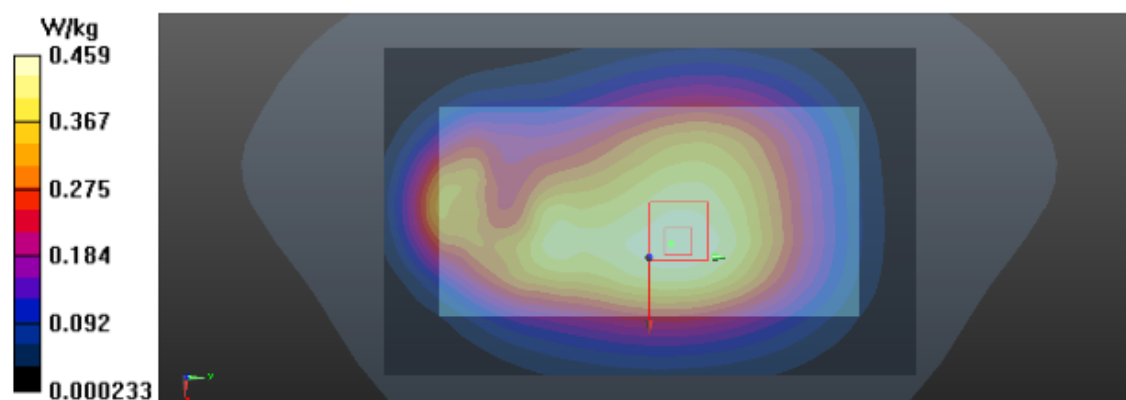
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.85 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.557 W/kg

**SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.333 W/kg**

Maximum value of SAR (measured) = 0.454 W/kg



Test Laboratory: BTL Inc.

Date: 04/11/2016

**T42\_GSM 1900\_GSM\_CH661\_Rear Face\_1.5cm\_Battery 2**

**DUT: 1603C159;**

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.519$  S/m;  $\epsilon_r = 52.88$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.2 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.94, 7.94, 7.94); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.315 W/kg

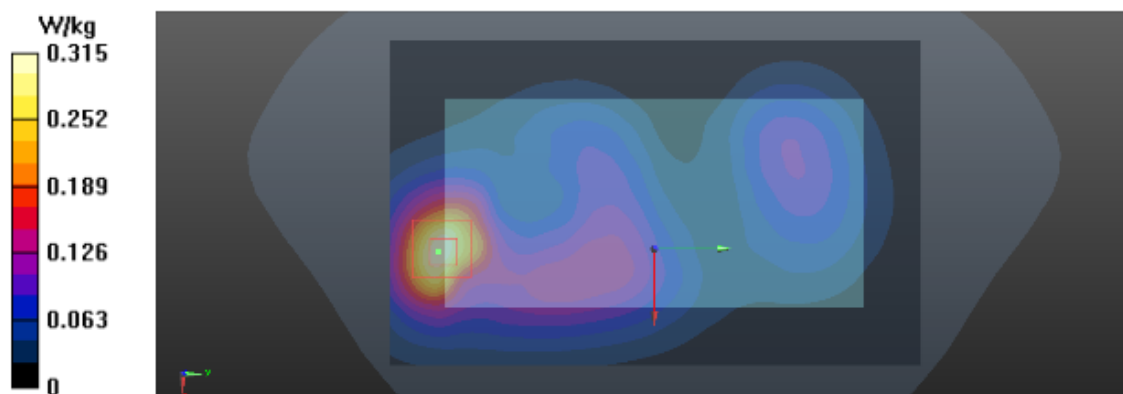
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.633 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.516 W/kg

**SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.166 W/kg**

Maximum value of SAR (measured) = 0.330 W/kg



Test Laboratory: BTL Inc.

Date: 04/11/2016

**T50\_GSM 1900\_GPRS 2TX\_CH810\_Front Face\_1cm**

**DUT: 1603C159;**

Communication System: UID 0, GPRS 2TX (0); Frequency: 1909.8 MHz; Duty Cycle: 1:4.00037

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.555$  S/m;  $\epsilon_r = 52.85$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.2 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.94, 7.94, 7.94); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.11 W/kg

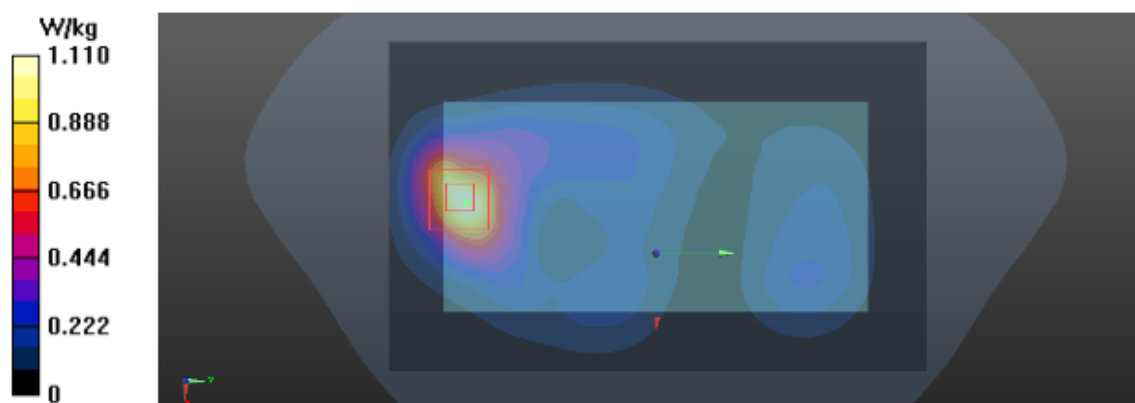
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.06 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.88 W/kg

**SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.543 W/kg**

Maximum value of SAR (measured) = 1.13 W/kg



Test Laboratory: BTL Inc.

Date: 04/09/2016

**T61\_WCDMA B2\_RMC 12.2K\_CH9400\_Front Face\_1.5cm**

**DUT: 1603C159;**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.52$  S/m;  $\epsilon_r = 52.896$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.94, 7.94, 7.94); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.550 W/kg

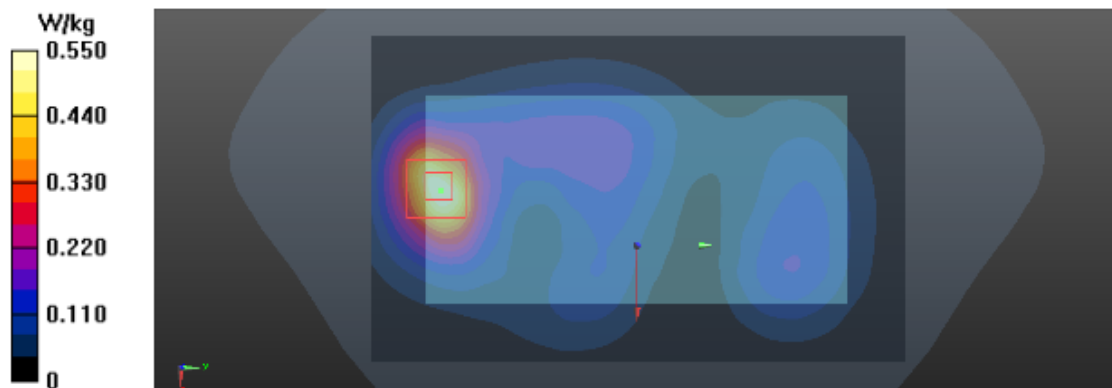
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.629 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.901 W/kg

**SAR(1 g) = 0.524 W/kg; SAR(10 g) = 0.285 W/kg**

Maximum value of SAR (measured) = 0.581 W/kg



Test Laboratory: BTL Inc.

Date: 04/08/2016

**T64\_WCDMA B2\_RMC 12.2K\_CH9400\_Front Face\_1cm**

**DUT: 1603C159;**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.52$  S/m;  $\epsilon_r = 52.896$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.94, 7.94, 7.94); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.469 W/kg

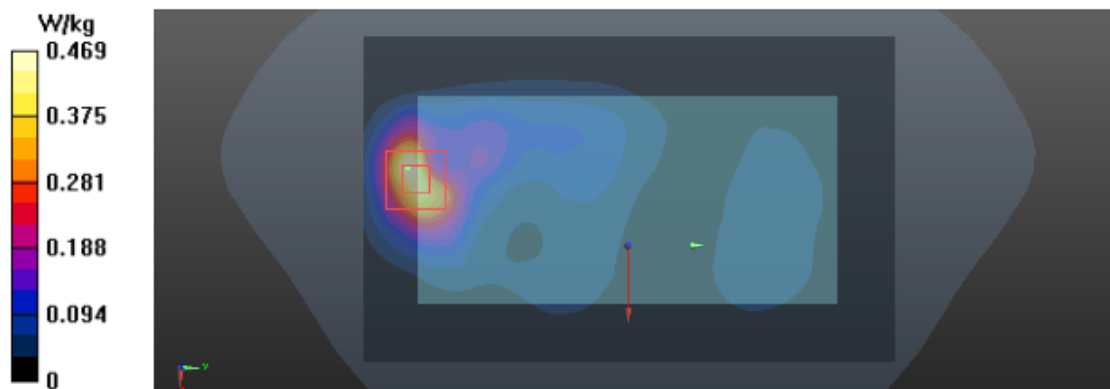
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.870 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.781 W/kg

**SAR(1 g) = 0.416 W/kg; SAR(10 g) = 0.210 W/kg**

Maximum value of SAR (measured) = 0.466 W/kg



Test Laboratory: BTL Inc.

Date: 04/10/2016

**T81\_WCDMA B4\_RMC 12.2K\_CH1413\_Front Face\_1.5cm**

**DUT: 1603C159;**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.445$  S/m;  $\epsilon_r = 51.731$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.38, 8.38, 8.38); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.663 W/kg

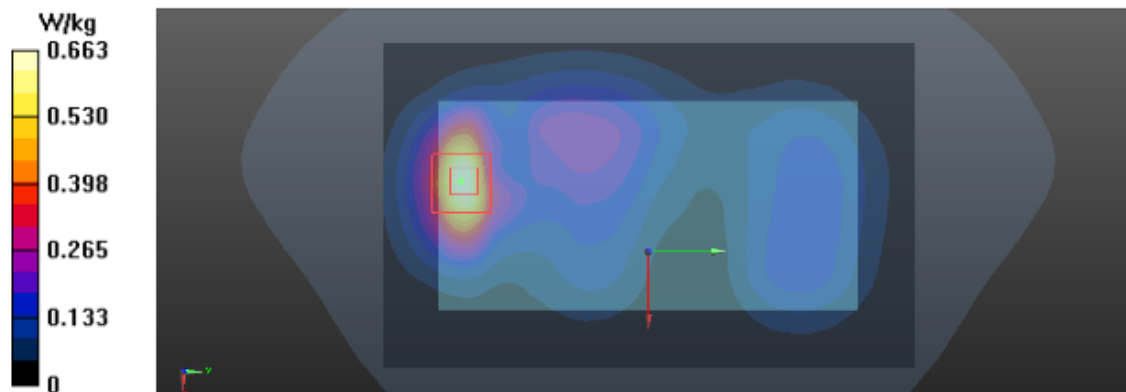
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.382 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.966 W/kg

**SAR(1 g) = 0.594 W/kg; SAR(10 g) = 0.336 W/kg**

Maximum value of SAR (measured) = 0.654 W/kg



Test Laboratory: BTL Inc.

Date: 04/10/2016

**T87\_WCDMA B4\_RMC 12.2K\_CH1413\_Front Face\_1cm**

**DUT: 1603C159;**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.445$  S/m;  $\epsilon_r = 51.731$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.38, 8.38, 8.38); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.767 W/kg

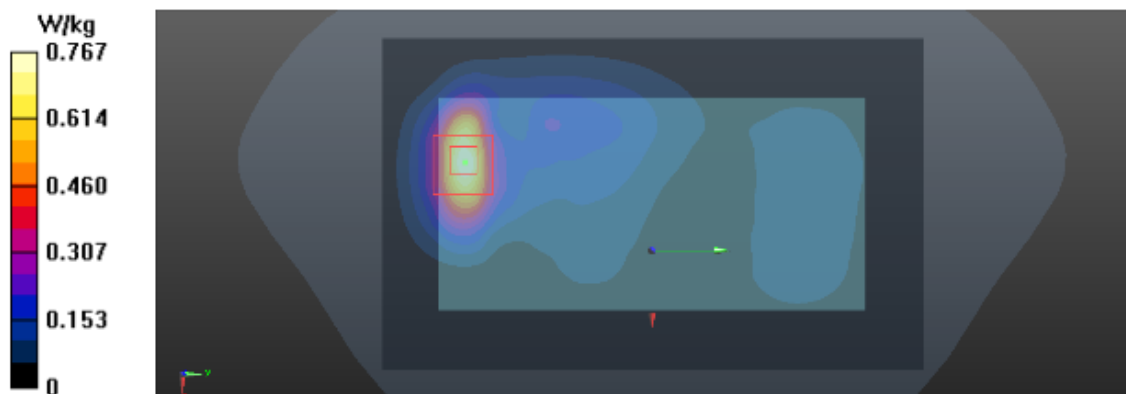
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.400 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.677 W/kg; SAR(10 g) = 0.355 W/kg**

Maximum value of SAR (measured) = 0.768 W/kg



Test Laboratory: BTL Inc.

Date: 04/11/2016

**T101\_WCDMA B5\_RMC 12.2K\_CH4182\_Front Face\_1.5cm**

**DUT: 1603C159;**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.974$  S/m;  $\epsilon_r = 54.18$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(10.22, 10.22, 10.22); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid:  $dx=15$  mm,  $dy=15$  mm

Maximum value of SAR (interpolated) = 0.413 W/kg

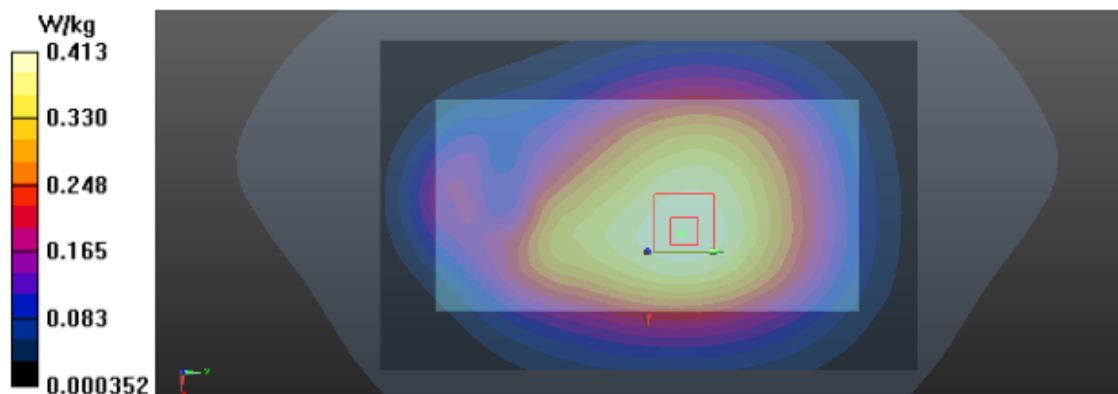
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 19.69 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.496 W/kg

**SAR(1 g) = 0.391 W/kg; SAR(10 g) = 0.302 W/kg**

Maximum value of SAR (measured) = 0.409 W/kg



Test Laboratory: BTL Inc.

Date: 04/11/2016

**T104\_WCDMA B5\_RMC 12.2K\_CH4182\_Front Face\_1cm**

**DUT: 1603C159;**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.974$  S/m;  $\epsilon_r = 54.18$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(10.22, 10.22, 10.22); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.489 W/kg

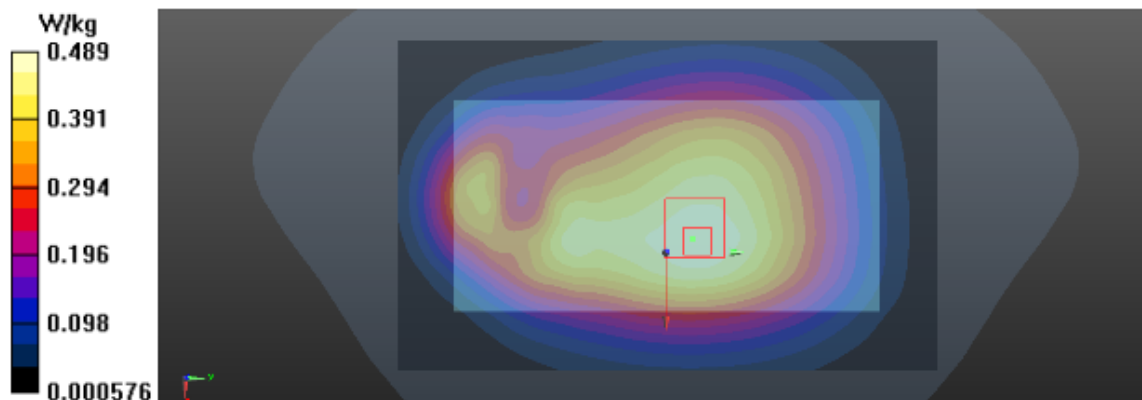
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.24 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.592 W/kg

**SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.357 W/kg**

Maximum value of SAR (measured) = 0.485 W/kg



Test Laboratory: BTL Inc.

Date: 04/08/2016

**T251\_LTE B2\_QPSK 20M\_CH18900\_1RB\_Front Face\_1.5cm**

**DUT: 1603C159;**

Communication System: UID 0, LTE-FDD(1RB, 20MHz, QPSK) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.52$  S/m;  $\epsilon_r = 52.896$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.94, 7.94, 7.94); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.562 W/kg

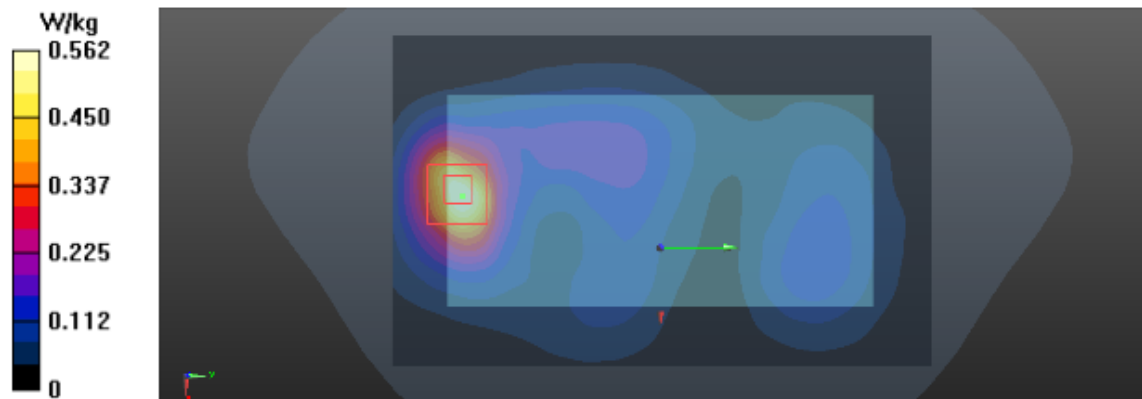
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.689 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.908 W/kg

**SAR(1 g) = 0.526 W/kg; SAR(10 g) = 0.284 W/kg**

Maximum value of SAR (measured) = 0.578 W/kg



Test Laboratory: BTL Inc.

Date: 04/08/2016

**T268\_LTE B2\_QPSK 20M\_CH18900\_1RB\_Front Face\_1cm\_Battery 2**

**DUT: 1603C159;**

Communication System: UID 0, LTE-FDD(1RB, 20MHz, QPSK) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.52$  S/m;  $\epsilon_r = 52.896$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.94, 7.94, 7.94); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid:  $dx=15$  mm,  $dy=15$  mm

Maximum value of SAR (interpolated) = 0.911 W/kg

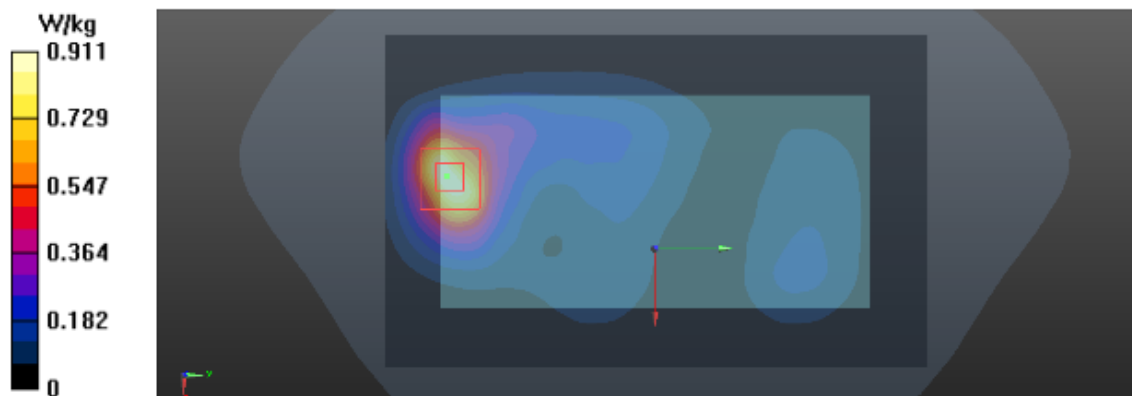
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.464 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.88 W/kg

**SAR(1 g) = 0.839 W/kg; SAR(10 g) = 0.452 W/kg**

Maximum value of SAR (measured) = 1.16 W/kg



Test Laboratory: BTL Inc.

Date: 04/10/2016

**T275\_LTE B4\_QPSK 20M\_CH20175\_1RB\_Front Face\_1.5cm\_Battery 2**

**DUT: 1603C159;**

Communication System: UID 0, LTE-FDD(1RB, 20MHz, QPSK) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.445$  S/m;  $\epsilon_r = 51.733$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature: 23.3 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.38, 8.38, 8.38); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.290 W/kg

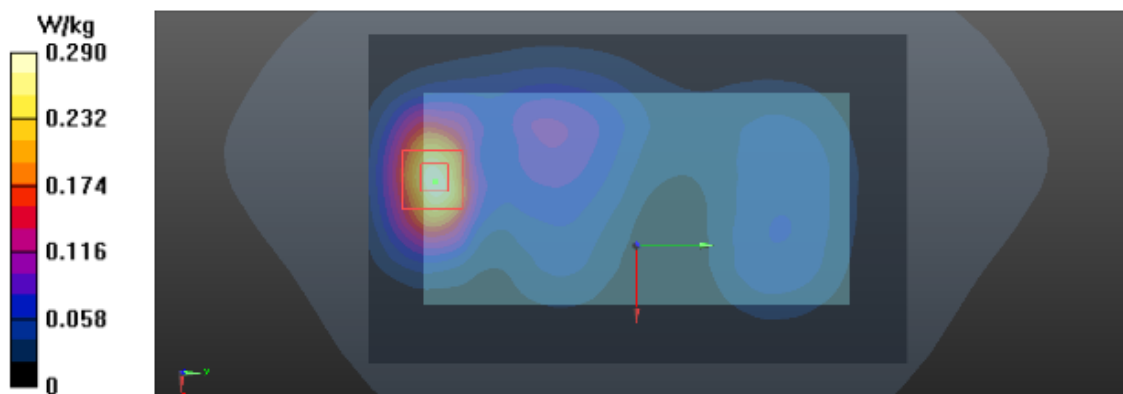
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.309 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.434 W/kg

**SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.152 W/kg**

Maximum value of SAR (measured) = 0.298 W/kg



Test Laboratory: BTL Inc.

Date: 05/07/2016

**T511\_LTE B4\_QPSK 20M\_CH20175\_1RB\_Front Face\_1cm**

**DUT: 1603C159;**

Communication System: UID 0, LTE-FDD(1RB, 20MHz, QPSK) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.438$  S/m;  $\epsilon_r = 54.541$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.38, 8.38, 8.38); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x13x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.518 W/kg

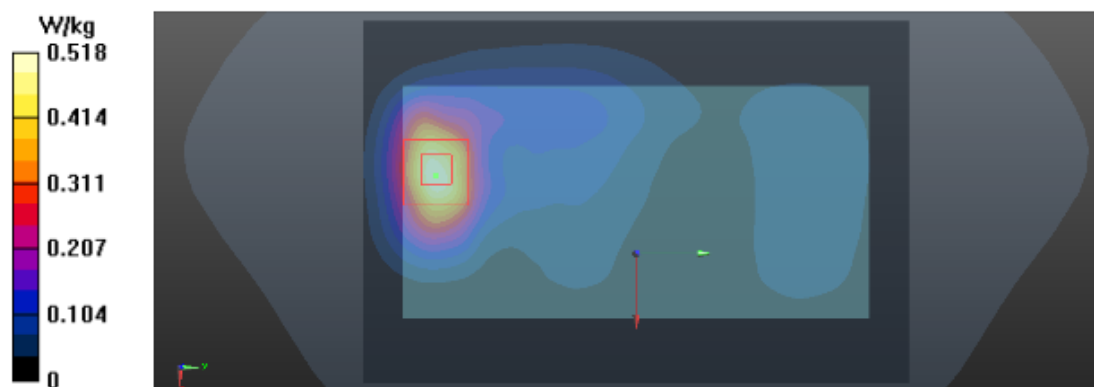
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.289 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.845 W/kg

**SAR(1 g) = 0.499 W/kg; SAR(10 g) = 0.269 W/kg**

Maximum value of SAR (measured) = 0.558 W/kg



Test Laboratory: BTL Inc.

Date: 04/11/2016

**T287\_LTE B5\_QPSK 10M\_CH20525\_1RB\_Front Face \_1.5cm**

**DUT: 1603C159;**

Communication System: UID 0, LTE-FDD(1RB,10MHz,QPSK) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.974$  S/m;  $\epsilon_r = 54.191$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(10.22, 10.22, 10.22); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid:  $dx=15$  mm,  $dy=15$  mm

Maximum value of SAR (interpolated) = 0.250 W/kg

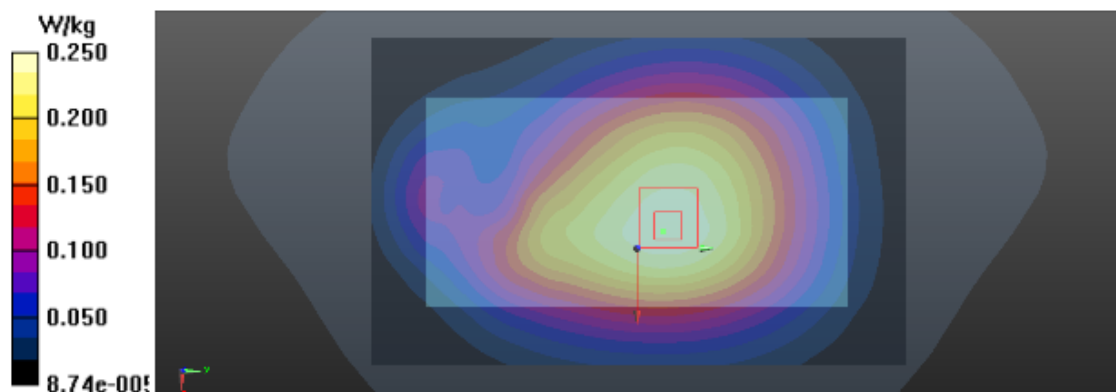
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 15.39 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.300 W/kg

**SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.182 W/kg**

Maximum value of SAR (measured) = 0.248 W/kg



Test Laboratory: BTL Inc.

Date: 04/11/2016

**T292\_LTE B5\_QPSK 10M\_CH20525\_1RB\_Front Face \_1cm**

**DUT: 1603C159;**

Communication System: UID 0, LTE-FDD(1RB, 10MHz, QPSK) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.974$  S/m;  $\epsilon_r = 54.191$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(10.22, 10.22, 10.22); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.306 W/kg

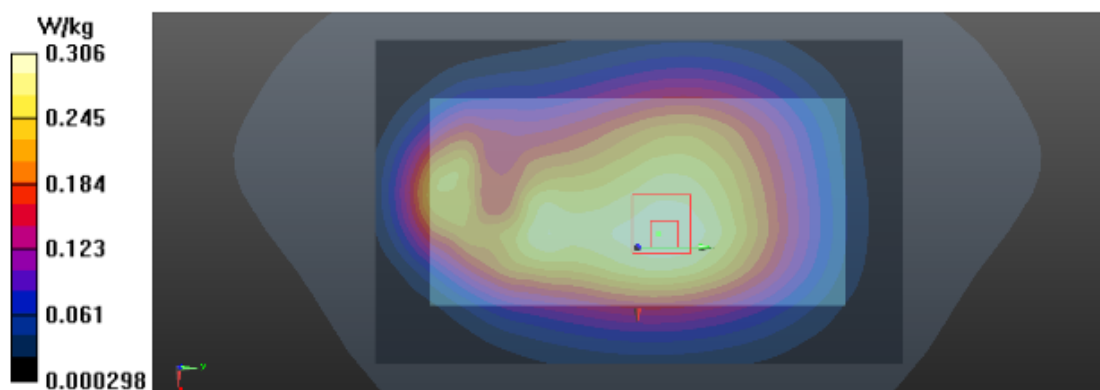
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.98 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.366 W/kg

**SAR(1 g) = 0.286 W/kg; SAR(10 g) = 0.219 W/kg**

Maximum value of SAR (measured) = 0.299 W/kg



Test Laboratory: BTL Inc.

Date: 04/07/2016

**T303\_LTE B7\_QPSK 20M\_CH21100\_1RB\_Front Face\_1.5cm**

**DUT: 1603C159;**

Communication System: UID 0, LTE-FDD(1RB, 20MHz, QPSK) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 2.126$  S/m;  $\epsilon_r = 52.634$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(6.99, 6.99, 6.99); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (11x18x1):** Interpolated grid:  $dx=12$  mm,  $dy=12$  mm

Maximum value of SAR (interpolated) = 0.196 W/kg

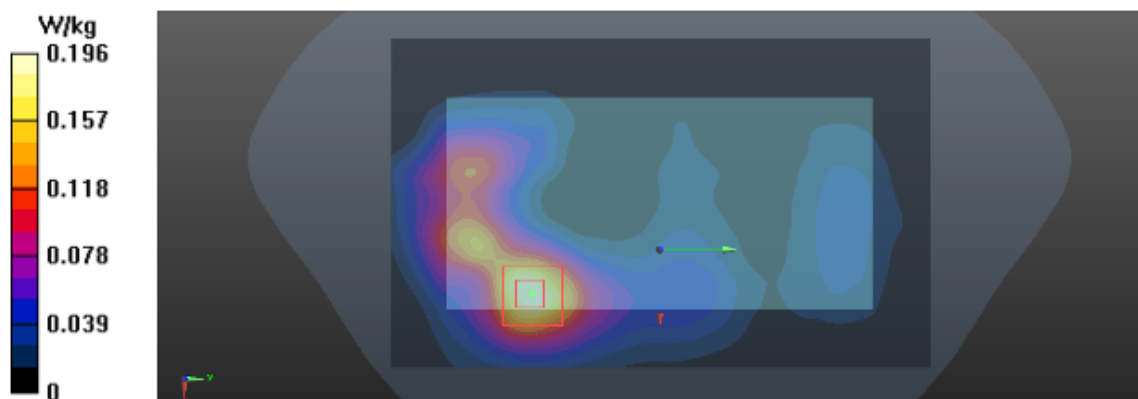
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 2.484 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.343 W/kg

**SAR(1 g) = 0.183 W/kg; SAR(10 g) = 0.092 W/kg**

Maximum value of SAR (measured) = 0.203 W/kg



Test Laboratory: BTL Inc.

Date: 04/07/2016

**T308\_LTE B7\_QPSK 20M\_CH21100\_1RB\_Front Face\_1cm**

**DUT: 1603C159;**

Communication System: UID 0, LTE-FDD(1RB, 20MHz, QPSK) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 2.126$  S/m;  $\epsilon_r = 52.634$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(6.99, 6.99, 6.99); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (11x18x1):** Interpolated grid:  $dx=12$  mm,  $dy=12$  mm

Maximum value of SAR (interpolated) = 0.400 W/kg

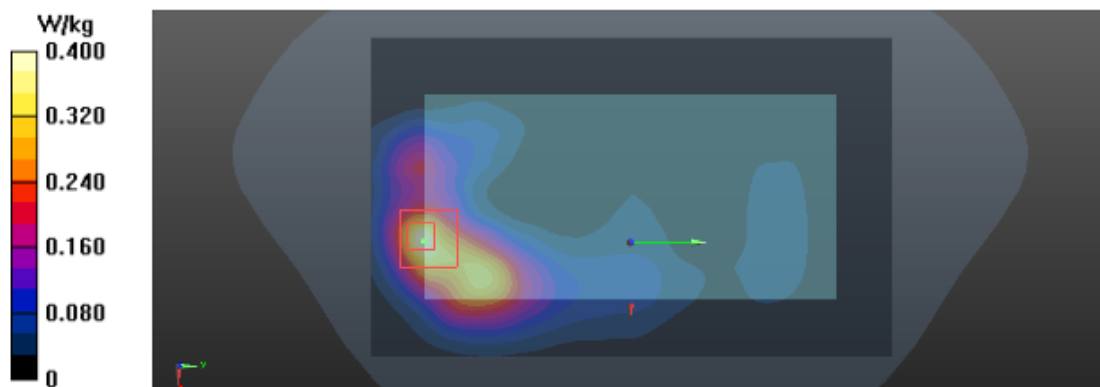
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.439 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.702 W/kg

**SAR(1 g) = 0.316 W/kg; SAR(10 g) = 0.147 W/kg**

Maximum value of SAR (measured) = 0.386 W/kg



Test Laboratory: BTL Inc.

Date: 04/16/2016

**T407\_802.11b\_CH6\_Rear Face\_1.5cm**

**DUT: 1603C159;**

Communication System: UID 0, IEEE 802.11b WiFi 2.4GHz (DSSS, 1Mbps) (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.977$  S/m;  $\epsilon_r = 51.669$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.52, 7.52, 7.52); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (11x18x1):** Interpolated grid:  $dx=12$  mm,  $dy=12$  mm

Maximum value of SAR (interpolated) = 0.0937 W/kg

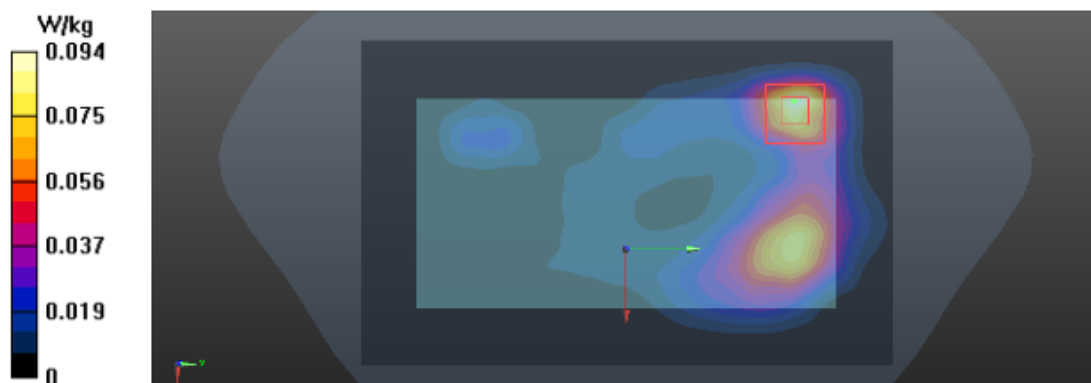
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 2.103 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.149 W/kg

**SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.021 W/kg**

Maximum value of SAR (measured) = 0.0773 W/kg



Test Laboratory: BTL Inc.

Date: 04/17/2016

**T410\_802.11b\_CH6\_Rear Face\_1cm**

**DUT: 1603C159;**

Communication System: UID 0, IEEE 802.11b WiFi 2.4GHz (DSSS, 1Mbps) (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.977$  S/m;  $\epsilon_r = 51.669$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.52, 7.52, 7.52); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (11x18x1):** Interpolated grid:  $dx=12$  mm,  $dy=12$  mm

Maximum value of SAR (interpolated) = 0.183 W/kg

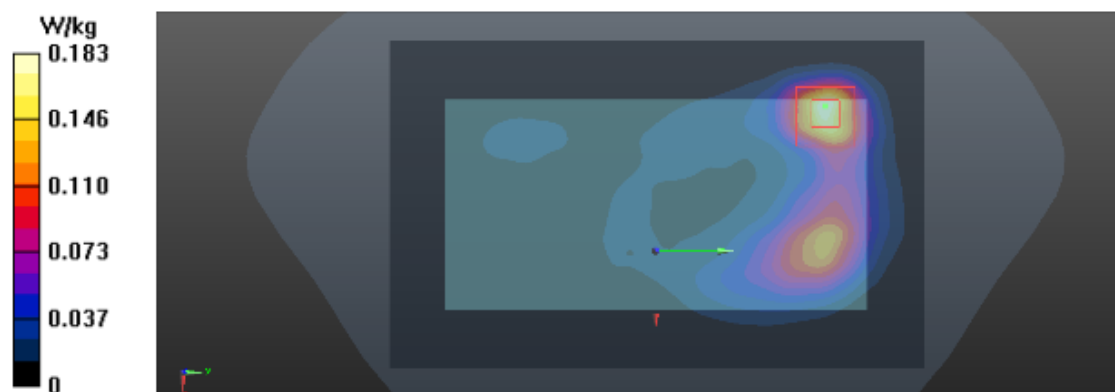
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 2.447 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.361 W/kg

**SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.038 W/kg**

Maximum value of SAR (measured) = 0.180 W/kg



Test Laboratory: BTL Inc.

Date: 04/10/2016

**T422\_WCDMA B4\_RMC 12.2K\_CH1413\_Front Face\_0cm**

**DUT: 1603C159;**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.445$  S/m;  $\epsilon_r = 51.731$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.38, 8.38, 8.38); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 6.23 W/kg

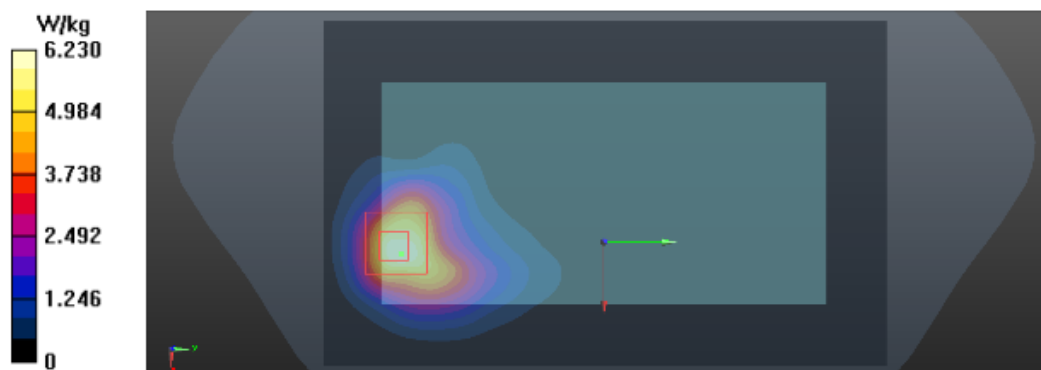
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.447 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 14.3 W/kg

**SAR(1 g) = 6.1 W/kg; SAR(10 g) = 2.84 W/kg**

Maximum value of SAR (measured) = 6.53 W/kg



Test Laboratory: BTL Inc.

Date: 04/08/2016

**T441\_LTE B2\_QPSK 20M\_CH18900\_1RB\_Front Face\_0cm\_Battery 2**

**DUT: 1603C159;**

Communication System: UID 0, LTE-FDD(1RB, 20MHz, QPSK) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.52$  S/m;  $\epsilon_r = 52.896$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(7.94, 7.94, 7.94); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Right; Type: Twin SAM; Serial: 1896
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.91 W/kg

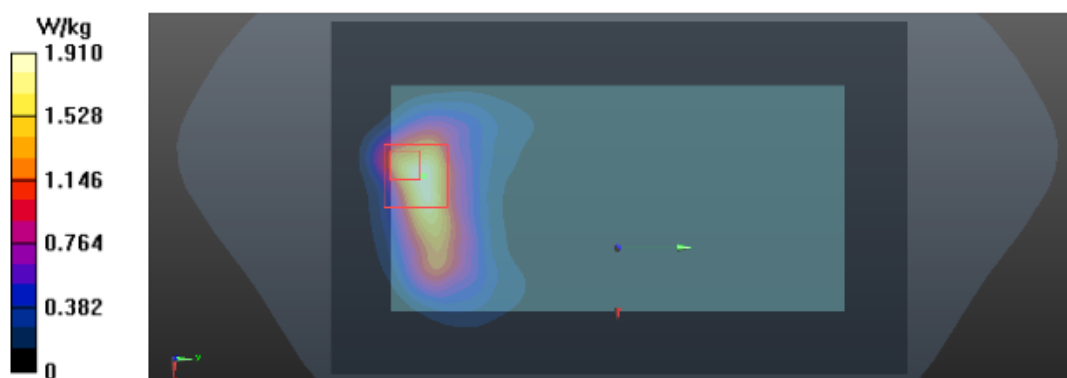
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.480 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 4.23 W/kg

**SAR(1 g) = 1.78 W/kg; SAR(10 g) = 0.771 W/kg**

Maximum value of SAR (measured) = 2.13 W/kg



Test Laboratory: BTL Inc.

Date: 04/10/2016

**T447\_LTE B4\_QPSK 20M\_CH20175\_1RB\_Front Face\_0cm\_Battery 2**

**DUT: 1603C159;**

Communication System: UID 0, LTE-FDD(1RB, 20MHz, QPSK) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.445$  S/m;  $\epsilon_r = 51.733$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3932; ConvF(8.38, 8.38, 8.38); Calibrated: 02/19/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 09/18/2015
- Phantom: SAM Front; Type: Twin SAM; Serial: 1784
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Area Scan (9x14x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 3.76 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.748 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 7.01 W/kg

**SAR(1 g) = 3.1 W/kg; SAR(10 g) = 1.44 W/kg**

Maximum value of SAR (measured) = 3.64 W/kg

