

Test Laboratory: BTL Inc.

Date: 2021/5/22

W06_802.11b_CH1_Back of Keyboard_0cm_Ant MAIN

DUT: Notebook;

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps);

Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.746$ S/m; $\epsilon_r = 39.804$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(7.56, 7.56, 7.56) @ 2412 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (9x13x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.818 W/kg

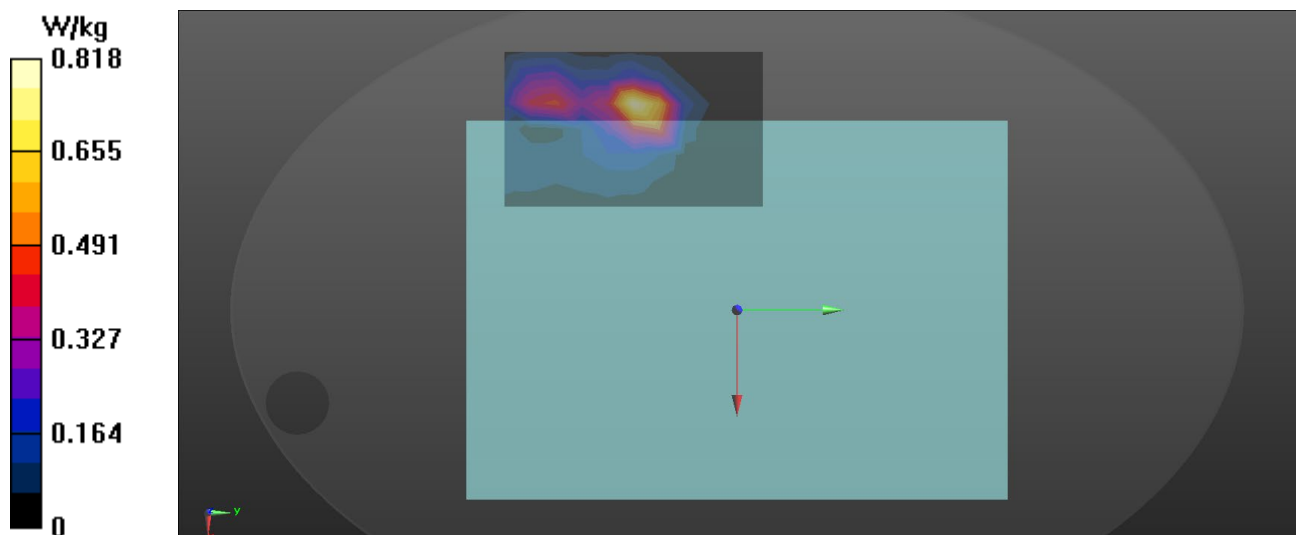
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.589 W/kg; SAR(10 g) = 0.288 W/kg

Maximum value of SAR (measured) = 0.872 W/kg



Test Laboratory: BTL Inc.

Date: 2021/5/22

W13_802.11b_CH6_Back of Keyboard_0cm_Ant AUX

DUT: Notebook;

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps);

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.768$ S/m; $\epsilon_r = 39.712$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(7.56, 7.56, 7.56) @ 2437 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (8x14x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.839 W/kg

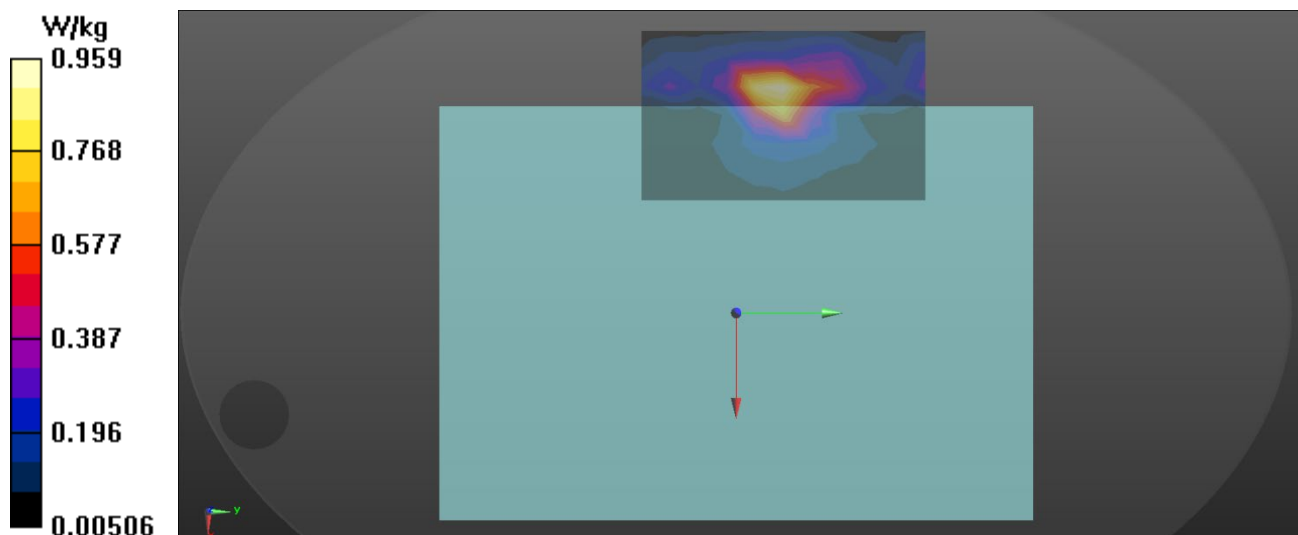
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 1.834 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.290 W/kg

Maximum value of SAR (measured) = 0.959 W/kg



Test Laboratory: BTL Inc.

Date: 2021/5/22

B04_BT DH5_CH78_Back of Keyboard_0cm_Ant AUX

DUT: Notebook;

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5);

Frequency: 2480 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.819 \text{ S/m}$; $\epsilon_r = 39.555$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $23.3 \text{ }^\circ\text{C}$; Liquid Temperature: $22.4 \text{ }^\circ\text{C}$

DASY Configuration:

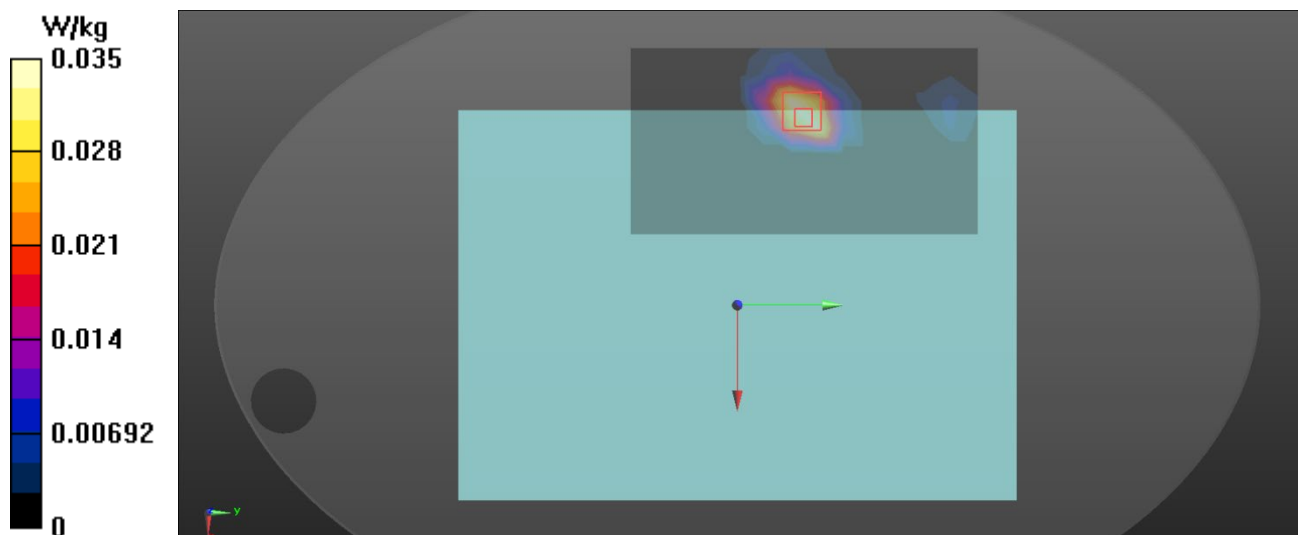
- Probe: EX3DV4 - SN7544; ConvF(7.56, 7.56, 7.56) @ 2480 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x18x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Maximum value of SAR (measured) = 0.0346 W/kg
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.0620 W/kg
SAR(1 g) = 0.027 W/kg ; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.0389 W/kg


Test Laboratory: BTL Inc.

Date: 2021/5/22

B11_BT BLE_CH39_Back of Keyboard_0cm_Ant AUX

DUT: Notebook;

Communication System: UID 10670 - AAA, Bluetooth Low Energy;

Frequency: 2480 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2480 \text{ MHz}$; $\sigma = 1.819 \text{ S/m}$; $\epsilon_r = 39.555$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $23.3 \text{ }^\circ\text{C}$; Liquid Temperature: $22.4 \text{ }^\circ\text{C}$

DASY Configuration:

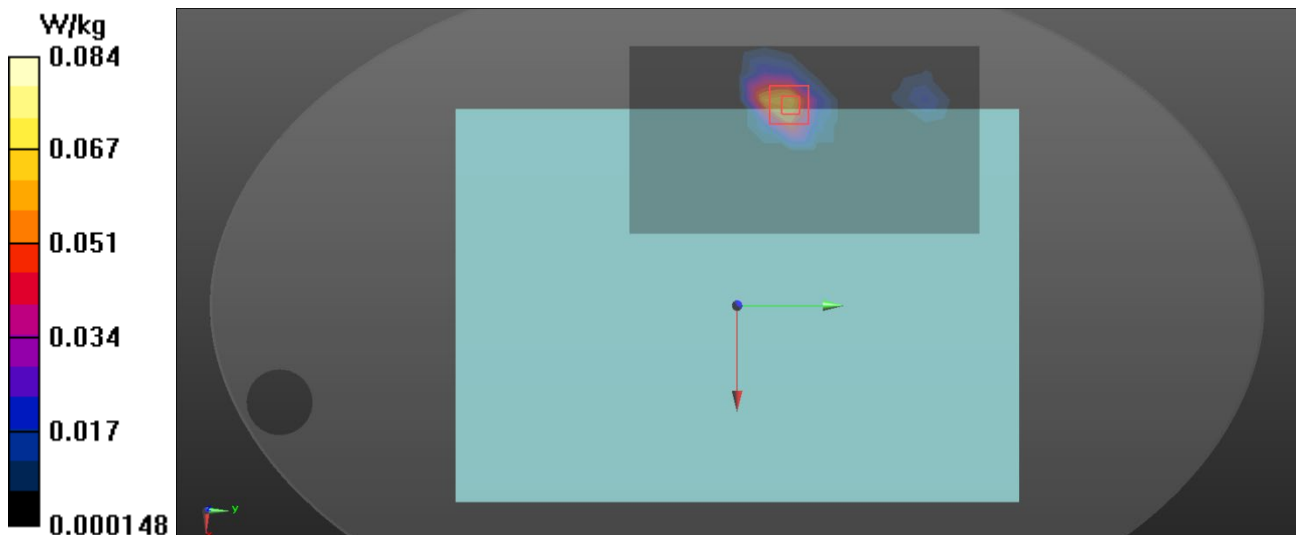
- Probe: EX3DV4 - SN7544; ConvF(7.56, 7.56, 7.56) @ 2480 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x18x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Maximum value of SAR (measured) = 0.0237 W/kg
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0400 W/kg
SAR(1 g) = 0.043 W/kg ; SAR(10 g) = 0.023 W/kg

Maximum value of SAR (measured) = 0.0290 W/kg


Test Laboratory: BTL Inc.

Date: 2021/5/21

W17_802.11a_CH52_Back of Keyboard_0cm_Ant MAIN

DUT: Notebook;

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5260$ MHz; $\sigma = 4.84$ S/m; $\epsilon_r = 35.715$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.25, 5.25, 5.25) @ 5260 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x15x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.74 W/kg

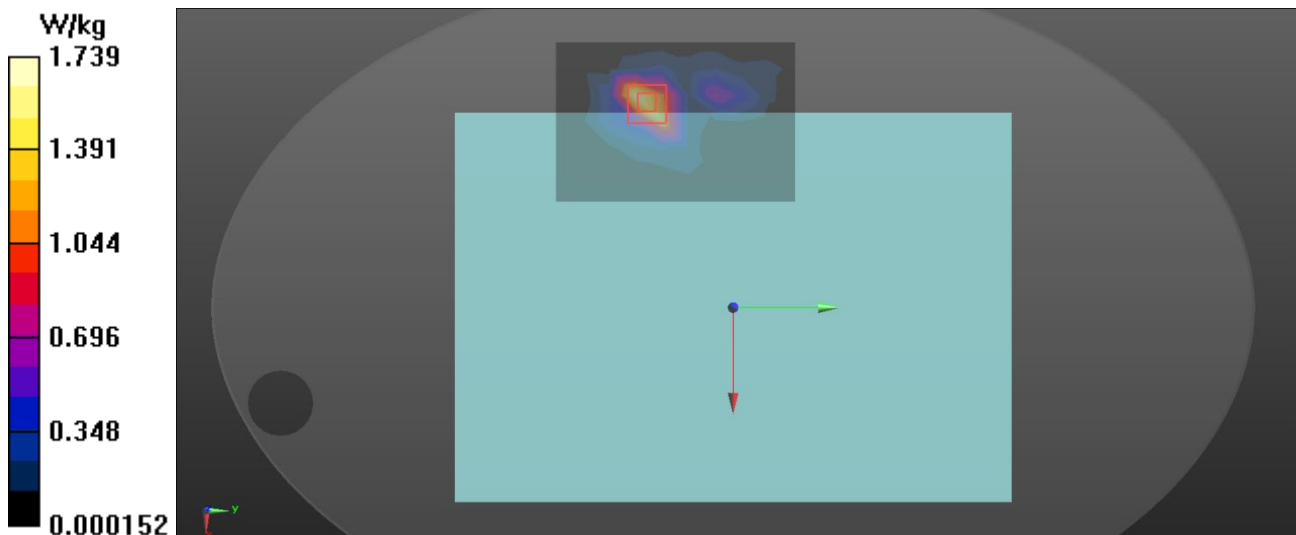
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 0.949 W/kg; SAR(10 g) = 0.338 W/kg

Maximum value of SAR (measured) = 2.18 W/kg



Test Laboratory: BTL Inc.

Date: 2021/5/21

W28_802.11a_CH52_Back of Keyboard_0cm_Ant AUX

DUT: Notebook;

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5260$ MHz; $\sigma = 4.84$ S/m; $\epsilon_r = 35.715$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.25, 5.25, 5.25) @ 5260 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x15x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 2.57 W/kg

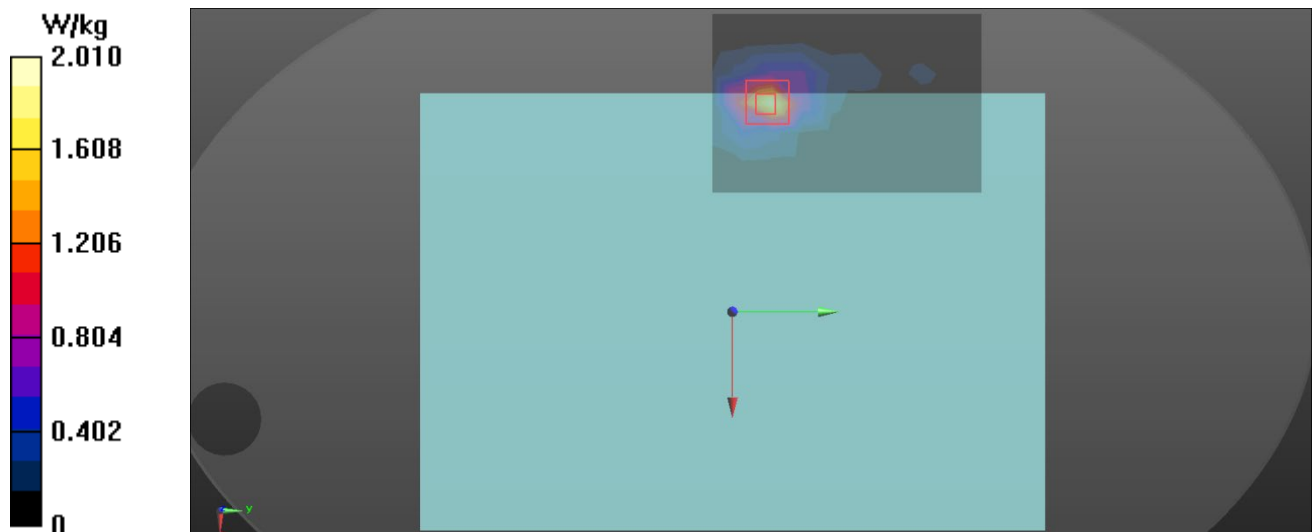
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 0.913 W/kg; SAR(10 g) = 0.334 W/kg

Maximum value of SAR (measured) = 2.01 W/kg



Test Laboratory: BTL Inc.

Date: 2021/5/21

W36_802.11a_CH116_Back of Keyboard_0cm_Ant MAIN

DUT: Notebook;

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5580 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.222 \text{ S/m}$; $\epsilon_r = 34.949$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $23.2 \text{ }^\circ\text{C}$; Liquid Temperature: $22.3 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.82, 4.82, 4.82) @ 5580 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x15x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 1.37 W/kg

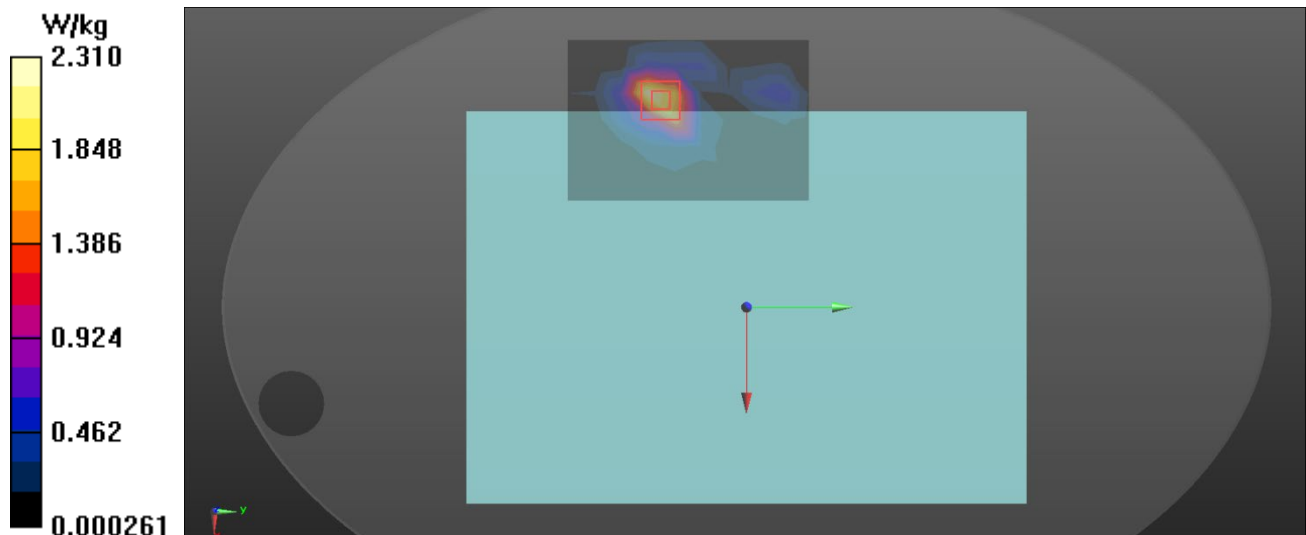
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 4.04 W/kg

SAR(1 g) = 0.987 W/kg ; SAR(10 g) = 0.368 W/kg

Maximum value of SAR (measured) = 2.31 W/kg



Test Laboratory: BTL Inc.

Date: 2021/5/21

W43_802.11a_CH116_Back of Keyboard_0cm_Ant AUX

DUT: Notebook;

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5580 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.222$ S/m; $\epsilon_r = 34.949$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.82, 4.82, 4.82) @ 5580 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x15x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.82 W/kg

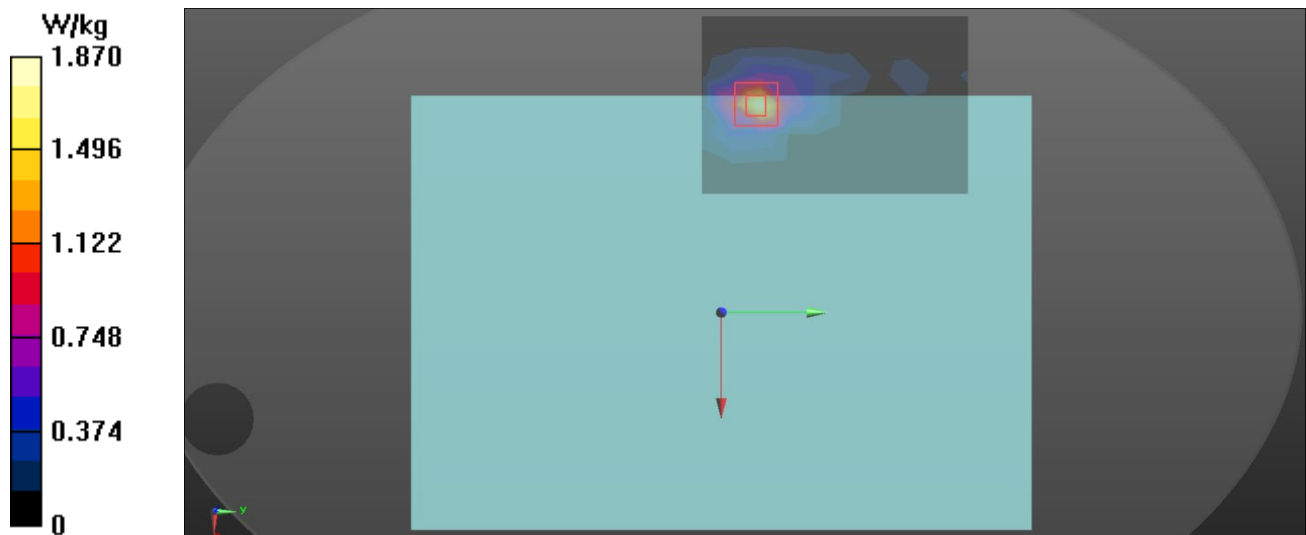
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 0.817 W/kg; SAR(10 g) = 0.301 W/kg

Maximum value of SAR (measured) = 1.87 W/kg



Test Laboratory: BTL Inc.

Date: 2021/5/21

W48_802.11a_CH157_Back of Keyboard_0cm_Ant MAIN

DUT: Notebook;

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5785$ MHz; $\sigma = 5.47$ S/m; $\epsilon_r = 34.438$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.8, 4.8, 4.8) @ 5785 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x15x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 2.12 W/kg

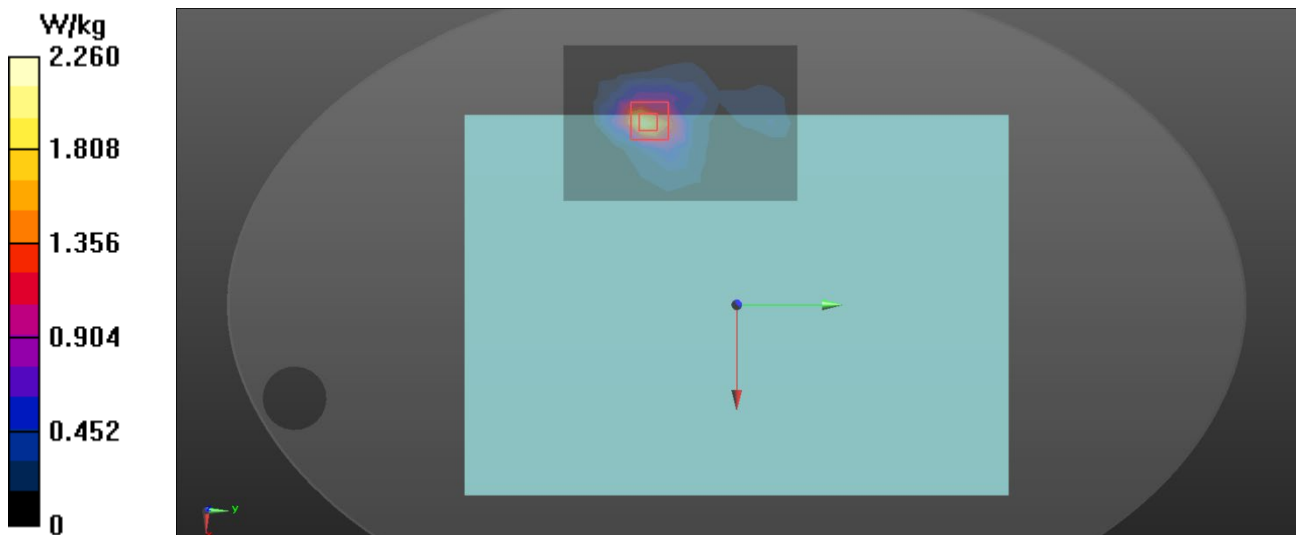
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 4.03 W/kg

SAR(1 g) = 0.944 W/kg; SAR(10 g) = 0.341 W/kg

Maximum value of SAR (measured) = 2.26 W/kg



Test Laboratory: BTL Inc.

Date: 2021/5/21

W56_802.11a_CH149_Back of Keyboard_0cm_Ant AUX

DUT: Notebook;

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5745$ MHz; $\sigma = 5.425$ S/m; $\epsilon_r = 34.522$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.8, 4.8, 4.8) @ 5745 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x15x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 2.28 W/kg

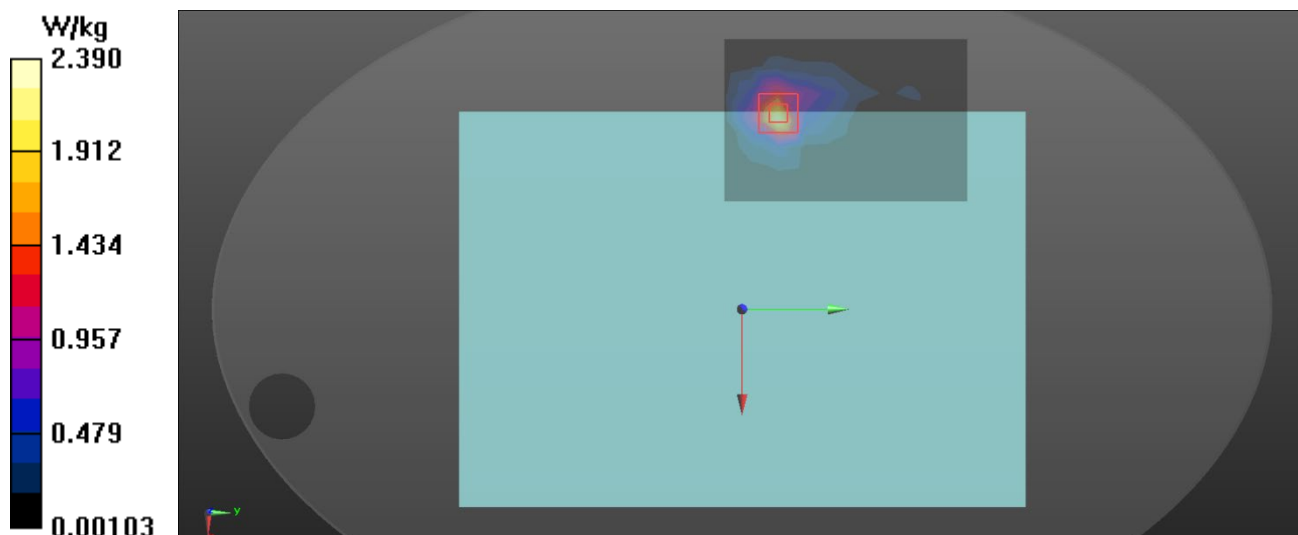
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.5870 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 4.48 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.372 W/kg

Maximum value of SAR (measured) = 2.39 W/kg



Test Laboratory: BTL Inc.

Date: 2021/5/21

W65_802.11a_CH52_Back of Keyboard_0cm_Ant MIMO

DUT: Notebook;

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5260$ MHz; $\sigma = 4.84$ S/m; $\epsilon_r = 35.715$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.25, 5.25, 5.25) @ 5260 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x18x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.44 W/kg

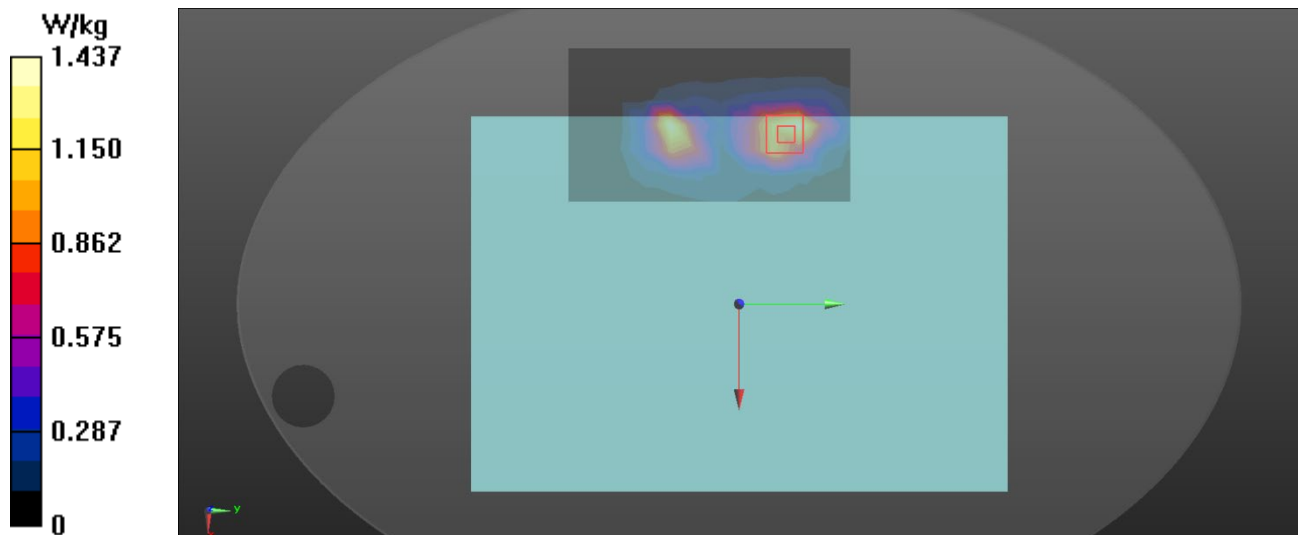
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.5720 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.08 W/kg

SAR(1 g) = 0.837 W/kg; SAR(10 g) = 0.312 W/kg

Maximum value of SAR (measured) = 1.89 W/kg



Test Laboratory: BTL Inc.

Date: 2021/5/21

W72_802.11a_CH116_Back of Keyboard_0cm_Ant MIMO

DUT: Notebook;

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5580 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.222$ S/m; $\epsilon_r = 34.949$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.82, 4.82, 4.82) @ 5580 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x18x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 2.01 W/kg

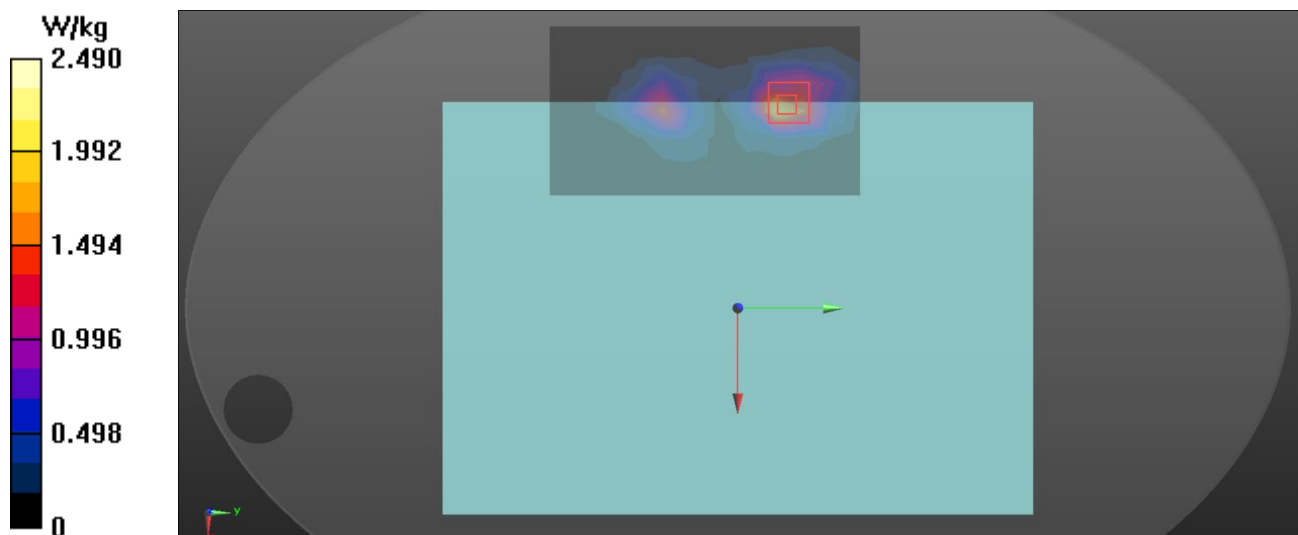
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 4.34 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.388 W/kg

Maximum value of SAR (measured) = 2.49 W/kg



Test Laboratory: BTL Inc.

Date: 2021/5/21

W81_802.11a_CH165_Back of Keyboard_0cm_Ant MIMO

DUT: Notebook;

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 5.517$ S/m; $\epsilon_r = 34.34$; $\rho = 1000$ kg/m³

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

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.8, 4.8, 4.8) @ 5825 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (11x18x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 2.00 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 4.25 W/kg

SAR(1 g) = 0.989 W/kg; SAR(10 g) = 0.357 W/kg

Maximum value of SAR (measured) = 2.31 W/kg

