

ANNEX C SAR Measurement Reports

Test Laboratory: Eurofins Product Service GmbH

2_4GHz Ch 11 Mbps 1 Antenna MAIN back 0mm

DUT: Portable equipment (mobile computer) with barcode reader and WLAN+BT; Type: FALCON X3; Serial: -

Communication System: UID 0 - n/a, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1Mbps); Frequency: 2462 MHz; Duty Cycle: 1:1.53815

Medium: Muscle 2450 MHz Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.937 \text{ S/m}$; $\epsilon_r = 52.94$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5.2 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.05, 4.05, 4.05); Calibrated: 9/18/2013;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2013
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP: 1013
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Flat-Section MSL/Flat Section 0mm/Area Scan (221x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.124 W/kg

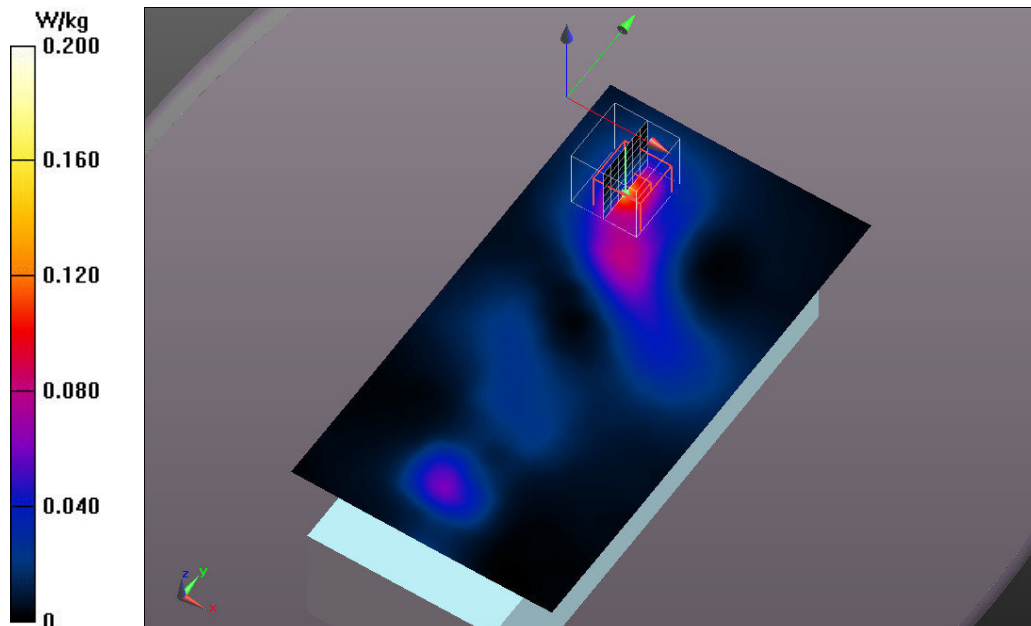
Flat-Section MSL/Flat Section 0mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.972 V/m ; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.256 W/kg

SAR(1 g) = 0.112 W/kg ; SAR(10 g) = 0.050 W/kg

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



Test Laboratory: Eurofins Product Service GmbH

5_2GHz Ch 40 Mbps 6 Antenna MAIN back 0mm

DUT: Portable equipment (mobile computer) with barcode reader and WLAN+BT; Type: FALCON X3; Serial: -

Communication System: UID 0 - n/a, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6Mbps); Frequency: 5200 MHz; Duty Cycle: 1:17.0608

Medium: MBBL 3-6 GHz Medium parameters used: $f = 5200$ MHz; $\sigma = 5.3$ S/m; $\epsilon_r = 47.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5.2 Configuration:

- Probe: EX3DV4 - SN3893; ConvF(4.67, 4.67, 4.67); Calibrated: 9/17/2013;
- Sensor-Surface: 4mm (Mechanical Surface Detection), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2013
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP: 1013
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Flat-Section MSL/Flat Section 0mm/Area Scan (121x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.247 W/kg

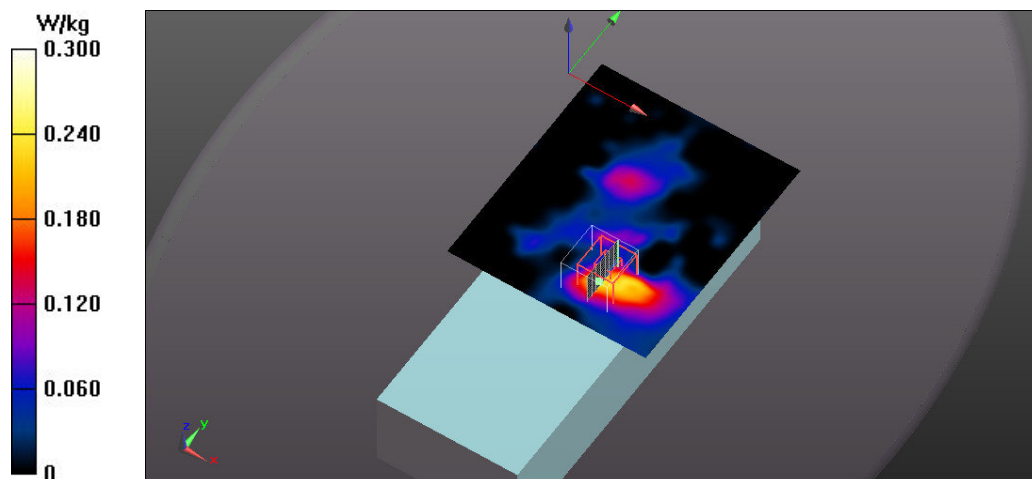
Flat-Section MSL/Flat Section 0mm/Zoom Scan (uniform grid) (8x8x13)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.445 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.897 W/kg

SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.048 W/kg

Maximum value of SAR (measured) = 0.515 W/kg



Test Laboratory: Eurofins Product Service GmbH

5_2GHz Ch 52 Mbps 6 Antenna MAIN back

DUT: Portable equipment (mobile computer) with barcode reader and WLAN+BT; Type: FALCON X3; Serial: -

Communication System: UID 0 - n/a, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6Mbps); Frequency: 5260 MHz; Duty Cycle: 1:17.0608

Medium: MBBL 3-6 GHz Medium parameters used: $f = 5200$ MHz; $\sigma = 5.3$ S/m; $\epsilon_r = 47.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5.2 Configuration:

- Probe: EX3DV4 - SN3893; ConvF(4.67, 4.67, 4.67); Calibrated: 9/17/2013;
- Sensor-Surface: 4mm (Mechanical Surface Detection), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2013
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP: 1013
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Flat-Section MSL/Flat Section 0mm/Area Scan (131x151x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 0.268 W/kg

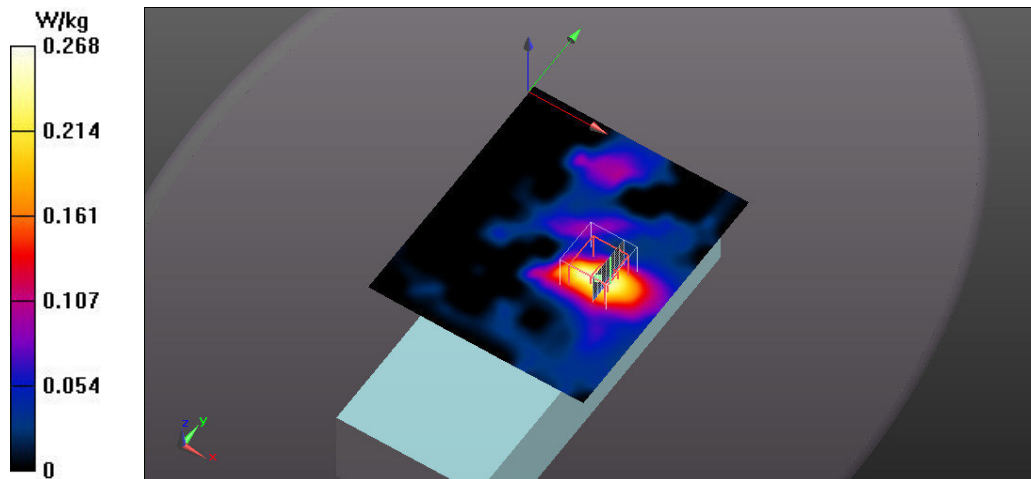
Flat-Section MSL/Flat Section 0mm/Zoom Scan (uniform grid) (8x8x13)/Cube 0: Measurement grid:
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.443 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.976 W/kg

SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.560 W/kg



Test Laboratory: Eurofins Product Service GmbH

5_5GHz Ch 100 Mbps 6 Antenna MAIN back 0mm

DUT: Portable equipment (mobile computer) with barcode reader and WLAN+BT; Type: FALCON X3; Serial: -

Communication System: UID 0 - n/a, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6Mbps); Frequency: 5500 MHz; Duty Cycle: 1:17.0608

Medium: MBBL 3-6 GHz Medium parameters used: $f = 5500$ MHz; $\sigma = 5.68$ S/m; $\epsilon_r = 46.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5.2 Configuration:

- Probe: EX3DV4 - SN3893; ConvF(4.27, 4.27, 4.27); Calibrated: 9/17/2013;
- Sensor-Surface: 4mm (Mechanical Surface Detection), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2013
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP: 1013
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Flat-Section MSL/Flat Section 0mm/Area Scan (121x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.442 W/kg

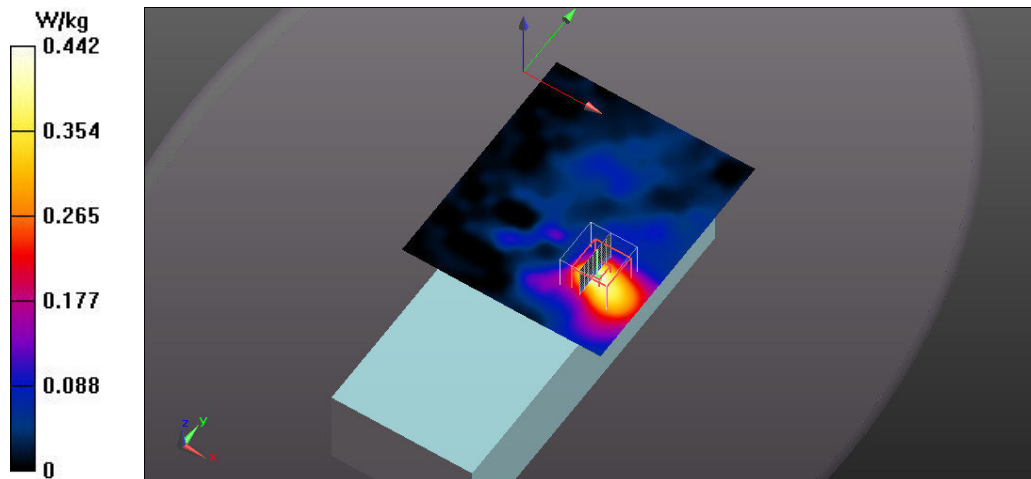
Flat-Section MSL/Flat Section 0mm/Zoom Scan (uniform grid) (8x8x13)/Cube 0: Measurement grid:
dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.131 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.429 W/kg; SAR(10 g) = 0.172 W/kg

Maximum value of SAR (measured) = 0.977 W/kg



Test Laboratory: Eurofins Product Service GmbH

5_8GHz Ch 165 6 Mbps Antenna MAIN back 0mm

DUT: Portable equipment (mobile computer) with barcode reader and WLAN+BT; Type: FALCON X3; Serial: -

Communication System: UID 0 - n/a, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6Mbps); Frequency: 5825 MHz;Duty Cycle: 1:17.0608

Medium: MBBL 3-6 GHz Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.32 \text{ S/m}$; $\epsilon_r = 48.48$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5.2 Configuration:

- Probe: EX3DV4 - SN3893; ConvF(4.38, 4.38, 4.38); Calibrated: 9/17/2013;
- Sensor-Surface: 4mm (Mechanical Surface Detection), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2013
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP: 1013
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Flat-Section MSL/Flat Section 0mm/Area Scan (121x141x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.327 W/kg

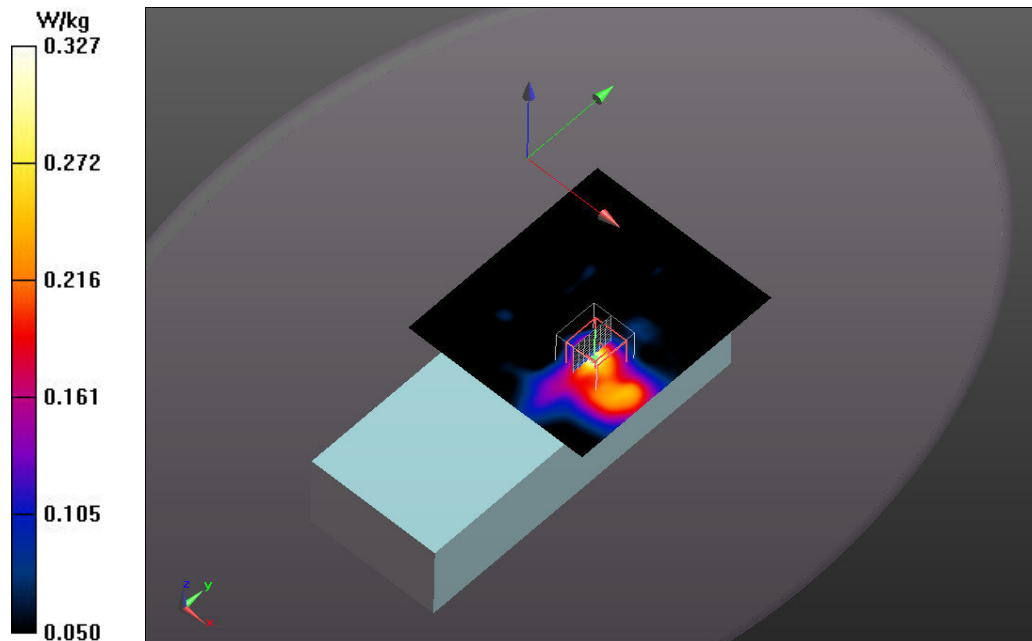
Flat-Section MSL/Flat Section 0mm/Zoom Scan (uniform grid) (8x8x13)/Cube 0: Measurement grid:
 $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.262 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.124 W/kg

Maximum value of SAR (measured) = 0.810 W/kg



Test Laboratory: Eurofins Product Service GmbH

5_8GHz Ch 161 Mbps 6 Antenna AUX back 0mm

DUT: Portable equipment (mobile computer) with barcode reader and WLAN+BT; Type: FALCON X3; Serial: -

Communication System: UID 0 - n/a, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6Mbps); Frequency: 5805 MHz; Duty Cycle: 1:17.0608

Medium: MBBL 3-6 GHz Medium parameters used: $f = 5800$ MHz; $\sigma = 6.29$ S/m; $\epsilon_r = 48;4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5.2 Configuration:

- Probe: EX3DV4 - SN3893; ConvF(4.38, 4.38, 4.38); Calibrated: 9/17/2013;
- Sensor-Surface: 4mm (Mechanical Surface Detection), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 9/11/2013
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP: 1013
- Measurement SW: DASY52, Version 52.8 (6); SEMCAD X Version 14.6.9 (7117)

Flat-Section MSL/Flat Section 0mm/Area Scan (121x141x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 0.399 W/kg

Flat-Section MSL/Flat Section 0mm/Zoom Scan (uniform grid) (8x8x13)/Cube 0: Measurement grid:
 $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 2.453 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 0.431 W/kg; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 0.984 W/kg

