

15.10 SAR test plots for LTE Band 2

LTE Band 2 Edge1 0mm 1RB Reduced Power 1860.0MHz

Communication System: UID 0, LTE (0); Communication System Band: Band 2; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.511$ S/m; $\epsilon_r = 51.023$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.62, 7.62, 7.62); Calibrated: 2013/05/14;

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)),

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2013/05/13

Phantom: ELI v5.0 SN1203; Type: QDOVA002AA;

Measurement SW: DASYS2, Version 52.8 (7);

Area Scan 2 (61x221x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.14 W/kg

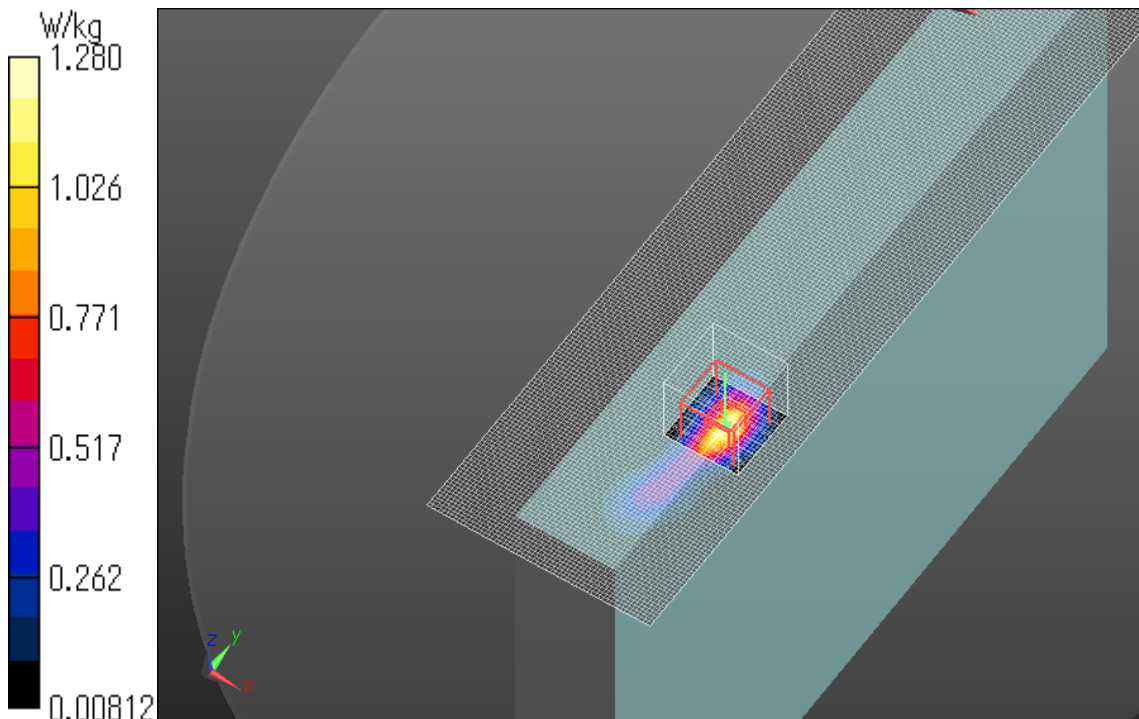
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 2.357 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 0.748 W/kg; SAR(10 g) = 0.318 W/kg

Maximum value of SAR (measured) = 1.28 W/kg



Plot No.1

LTE Band 2 Edge1 0mm 50%RB Reduced Power 1880.0MHz

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.532$ S/m; $\epsilon_r = 50.991$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.62, 7.62, 7.62); Calibrated: 2013/05/14;

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)),

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2013/05/13

Phantom: ELI v5.0 SN1203; Type: QDOVA002AA;

Measurement SW: DASYS2, Version 52.8 (7);

Flat/Touch Position 2 2/Area Scan 2 (61x221x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.798 W/kg

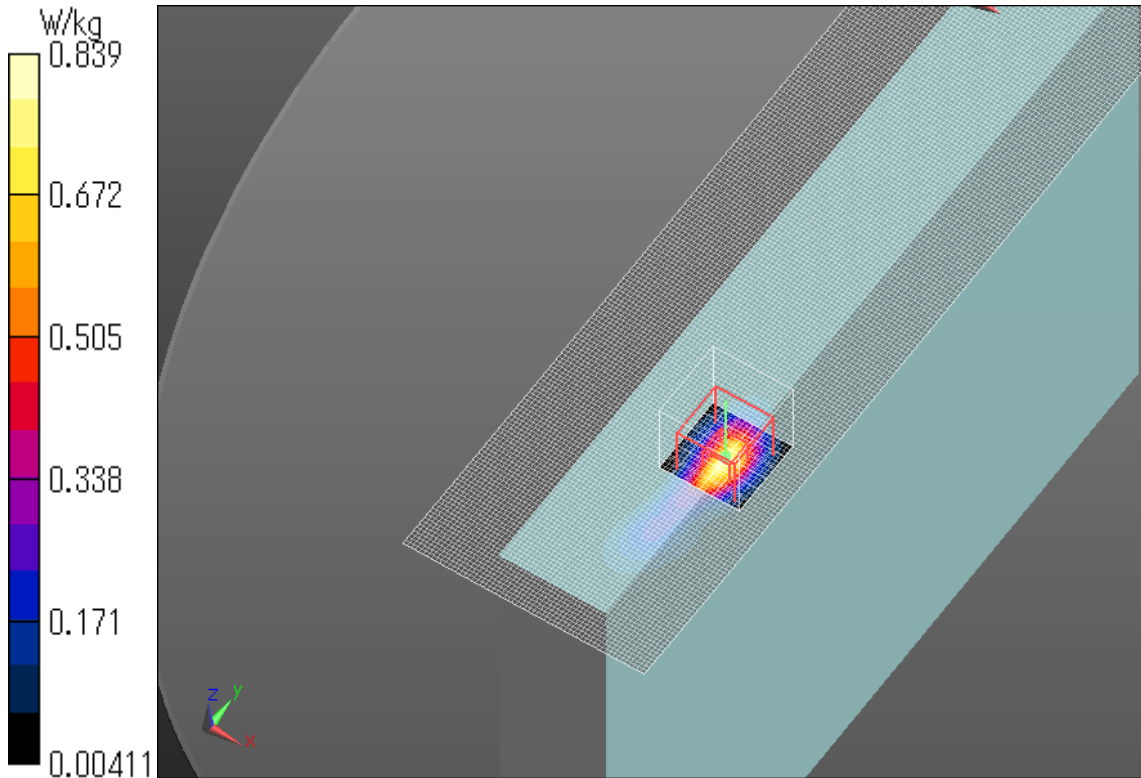
Flat/Touch Position 2 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.174 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.211 W/kg

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



Plot No.2

LTE Band 2 Edge1 0mm 100%RB Reduced Power 1860.0MHz

Communication System: UID 0, LTE (0); Communication System Band: Band 2; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.511$ S/m; $\epsilon_r = 51.023$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.62, 7.62, 7.62); Calibrated: 2013/05/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2013/05/13

Phantom: ELI v5.0 SN1203; Type: QDOVA002AA;

Measurement SW: DASYS2, Version 52.8 (7);

Area Scan 2 (61x221x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.19 W/kg

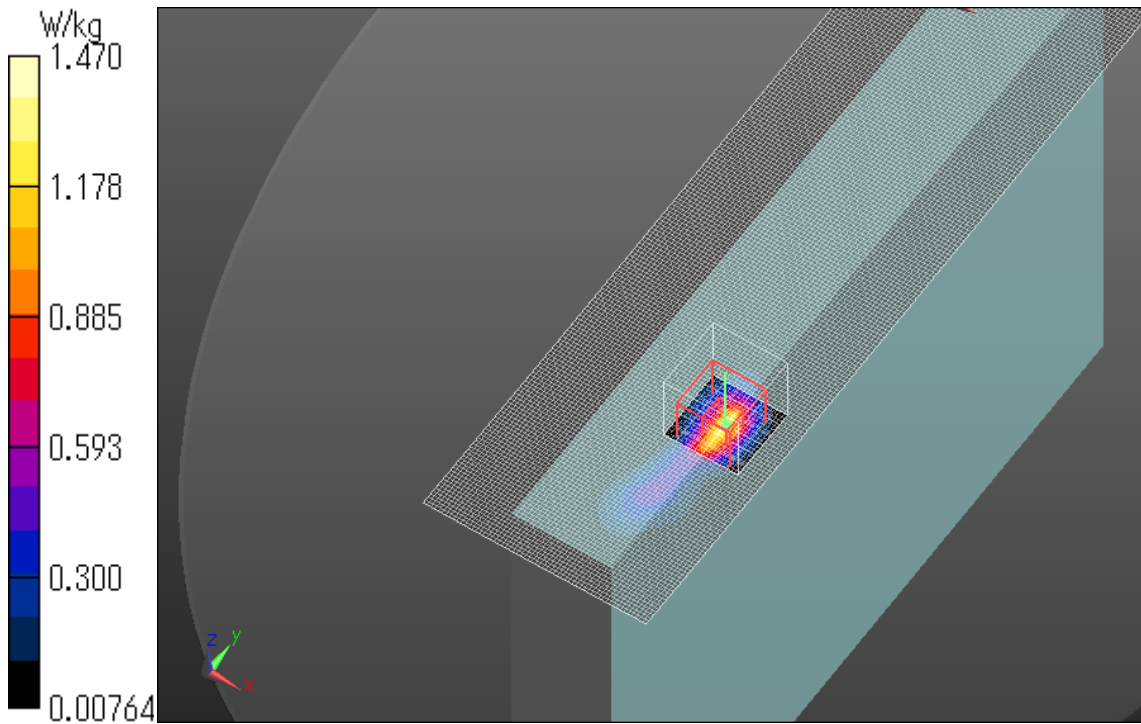
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.972 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 0.797 W/kg; SAR(10 g) = 0.330 W/kg

Maximum value of SAR (measured) = 1.47 W/kg



Plot No.3

LTE Band 2 Edge1 0mm 100%RB Reduced Power 1860.0MHz

Communication System: UID 0, LTE (0); Communication System Band: Band 2; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.511$ S/m; $\epsilon_r = 51.023$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.62, 7.62, 7.62); Calibrated: 2013/05/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

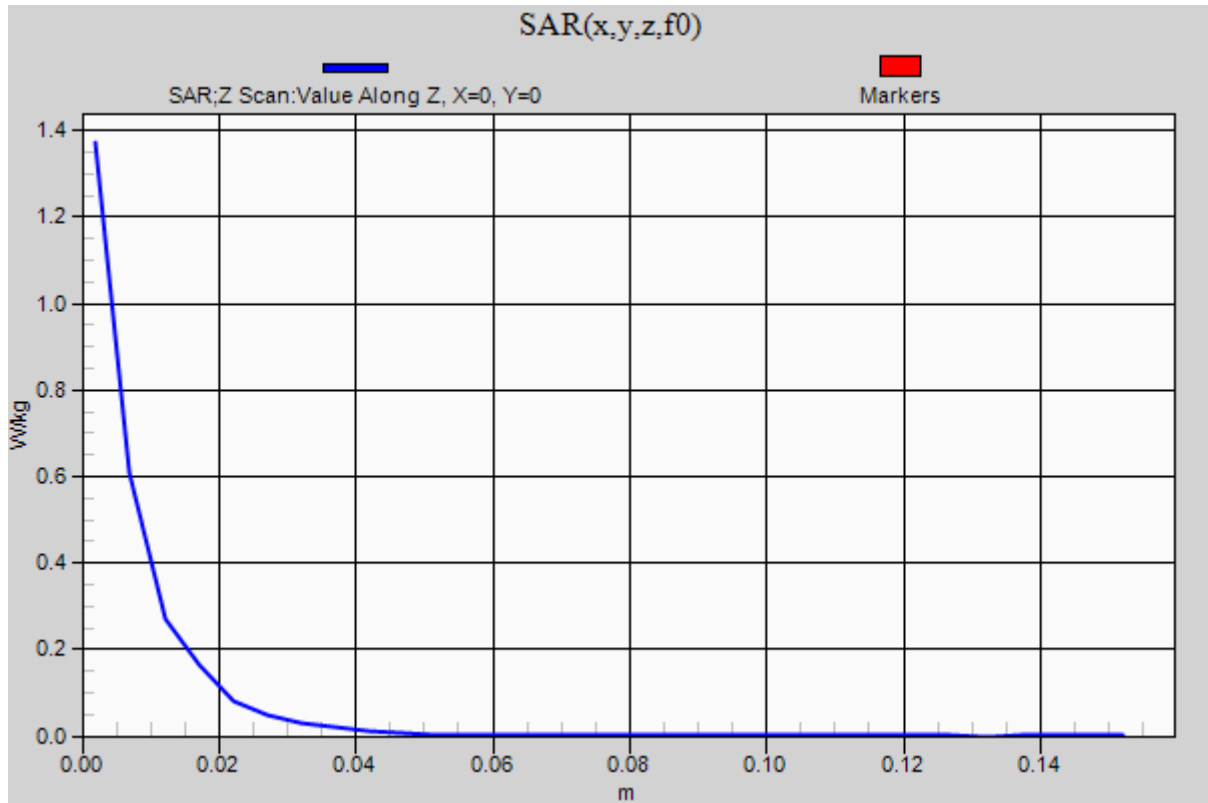
Electronics: DAE4 Sn1369; Calibrated: 2013/05/13

Phantom: ELI v5.0 SN1203; Type: QDOVA002AA;

Measurement SW: DASYS2, Version 52.8 (7);

Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

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



LTE Band 2 Rear 0mm 1RB Full Power 1900.0MHz

Communication System: UID 0, LTE (0); Communication System Band: Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.555$ S/m; $\epsilon_r = 50.954$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.62, 7.62, 7.62); Calibrated: 2013/05/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2013/05/13

Phantom: ELI v5.0 SN1203; Type: QDOVA002AA;

Measurement SW: DASYS2, Version 52.8 (7);

Area Scan 2 2 (81x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0835 W/kg

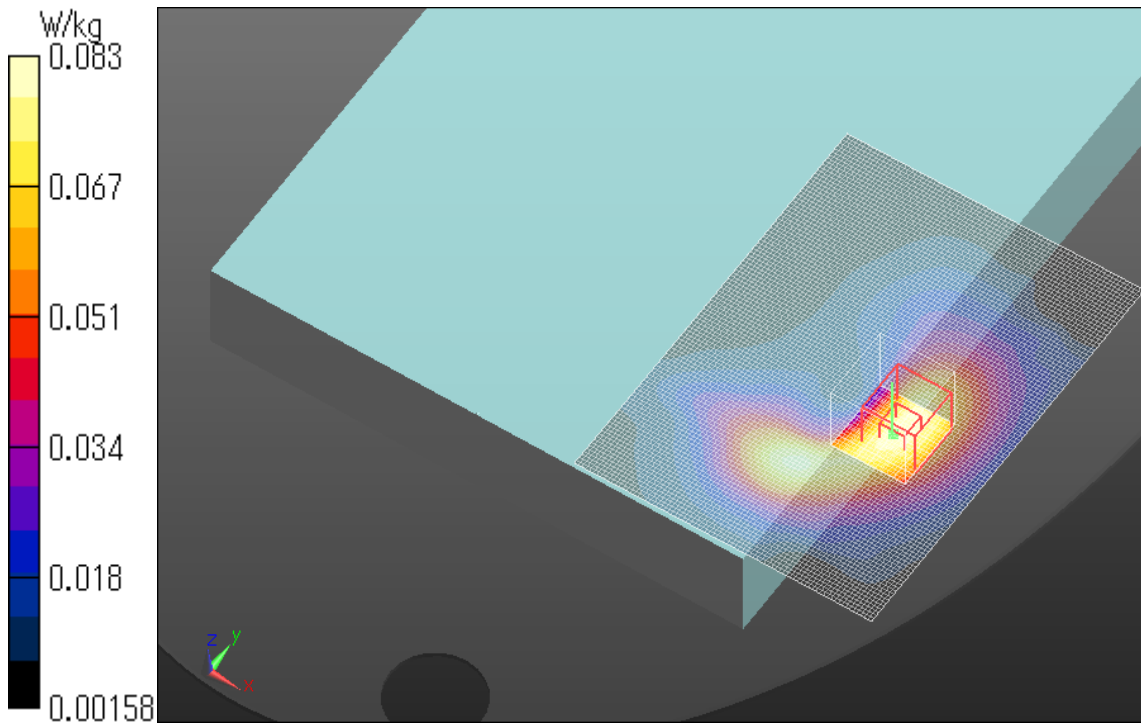
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.426 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.100 W/kg

SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.040 W/kg

Maximum value of SAR (measured) = 0.0834 W/kg



Plot No.4

LTE Band 2 Rear 0mm 50%RB Full Power 1900.0MHz

Communication System: UID 0, LTE (0); Communication System Band: Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.555$ S/m; $\epsilon_r = 50.954$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.62, 7.62, 7.62); Calibrated: 2013/05/14;

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)),

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2013/05/13

Phantom: ELI v5.0 SN1203; Type: QDOVA002AA;

Measurement SW: DASYS2, Version 52.8 (7);

Flat/Touch Position 2 2 2/Area Scan 2 2 (81x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0705 W/kg

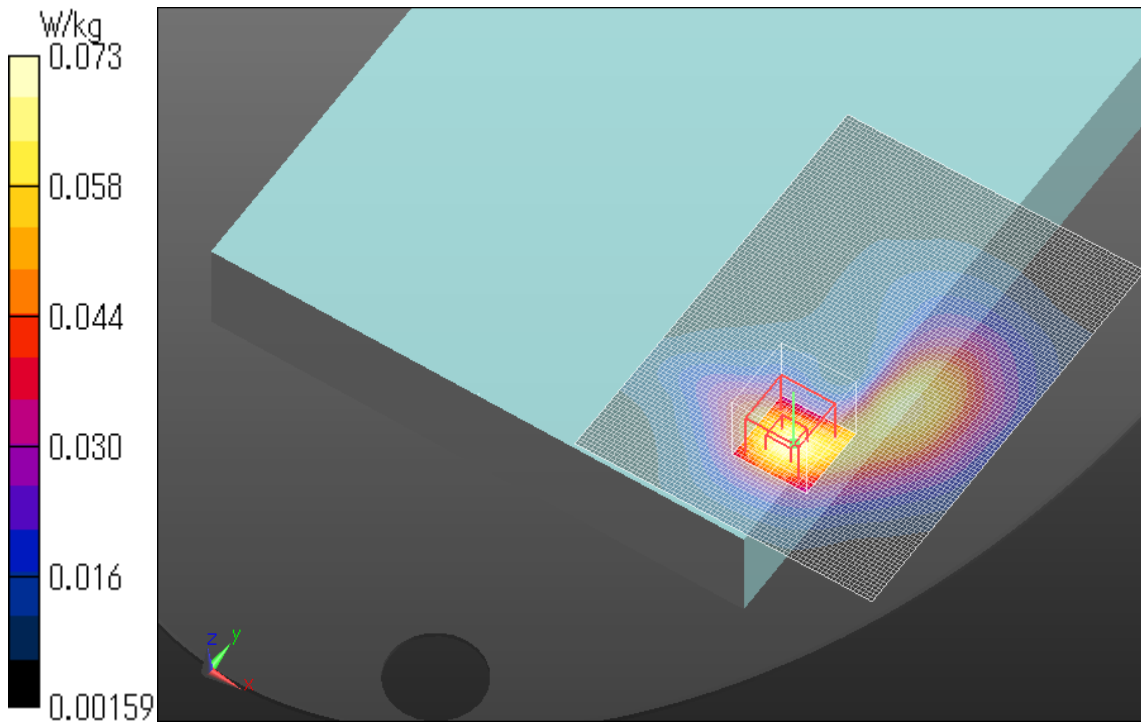
Flat/Touch Position 2 2 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.604 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.0920 W/kg

SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.030 W/kg

Maximum value of SAR (measured) = 0.0727 W/kg



Plot No.5

LTE Band 2 Edge1 16mm 1RB Full Power 1900.0MHz

Communication System: UID 0, LTE (0); Communication System Band: Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.555$ S/m; $\epsilon_r = 50.954$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.62, 7.62, 7.62); Calibrated: 2013/05/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2013/05/13

Phantom: ELI v5.0 SN1203; Type: QDOVA002AA;

Measurement SW: DASYS2, Version 52.8 (7);

Area Scan 2 (61x221x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.639 W/kg

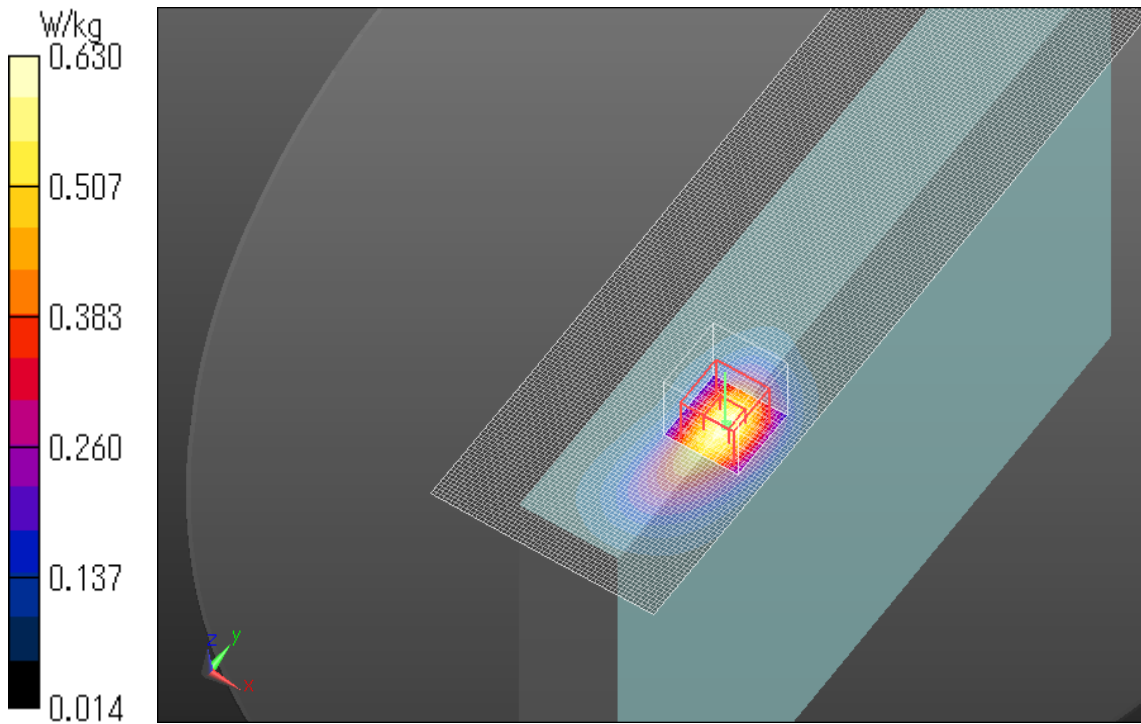
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.609 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.758 W/kg

SAR(1 g) = 0.467 W/kg; SAR(10 g) = 0.265 W/kg

Maximum value of SAR (measured) = 0.630 W/kg



Plot No.6

LTE Band 2 Edge1 16mm 50%RB Full Power 1900.0MHz

Communication System: UID 0, LTE (0); Communication System Band: Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.555$ S/m; $\epsilon_r = 50.954$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.62, 7.62, 7.62); Calibrated: 2013/05/14;

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)),

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2013/05/13

Phantom: ELI v5.0 SN1203; Type: QDOVA002AA;

Measurement SW: DASY52, Version 52.8 (7);

Area Scan 2 (61x221x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

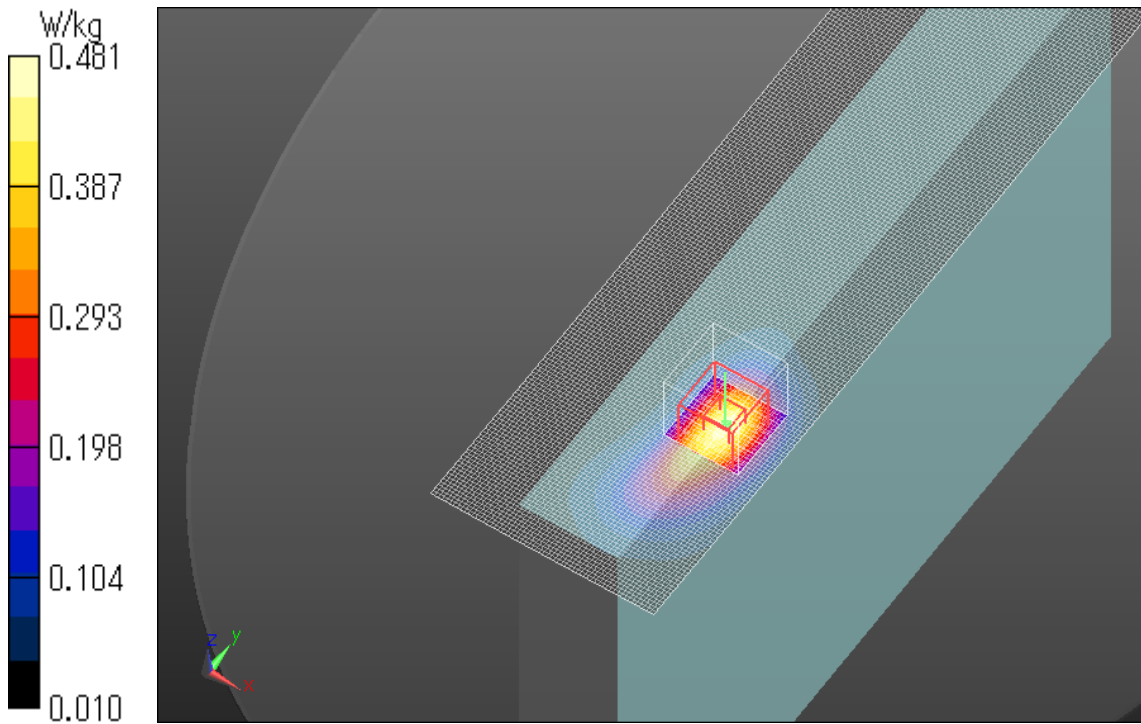
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.742 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.586 W/kg

SAR(1 g) = 0.356 W/kg; SAR(10 g) = 0.203 W/kg

Maximum value of SAR (measured) = 0.481 W/kg



Plot No.7

LTE Band 2 Edge4 0mm 1RB Full Power 1900.0MHz

Communication System: UID 0, LTE (0); Communication System Band: Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.555$ S/m; $\epsilon_r = 50.954$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.62, 7.62, 7.62); Calibrated: 2013/05/14;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2013/05/13

Phantom: ELI v5.0 SN1203; Type: QDOVA002AA;

Measurement SW: DASYS2, Version 52.8 (7);

Area Scan 2 (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.219 W/kg

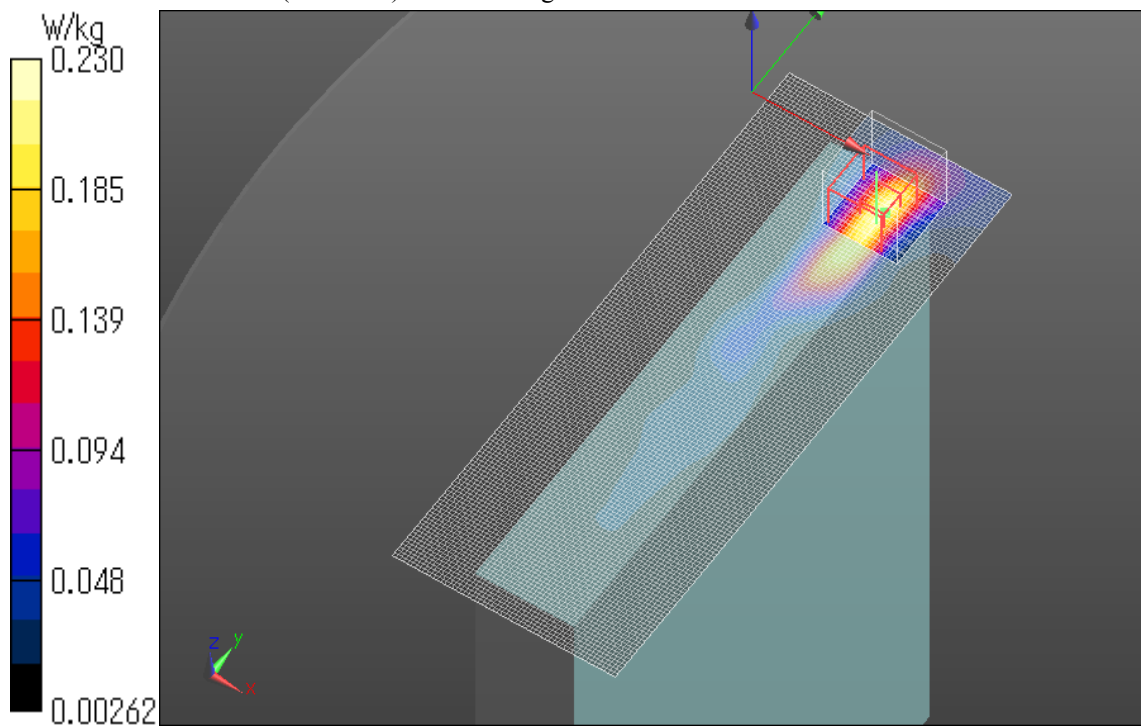
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.004 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.320 W/kg

SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.075 W/kg

Maximum value of SAR (measured) = 0.230 W/kg



Plot No.8

LTE Band 2 Edge4 0mm 50%RB Full Power 1900.0MHz

Communication System: UID 0, LTE (0); Communication System Band: Band 2; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.555$ S/m; $\epsilon_r = 50.954$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.62, 7.62, 7.62); Calibrated: 2013/05/14;

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)),

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2013/05/13

Phantom: ELI v5.0 SN1203; Type: QDOVA002AA;

Measurement SW: DASYS2, Version 52.8 (7);

Flat/Touch Position 2 2 2/Area Scan 2 (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.231 W/kg

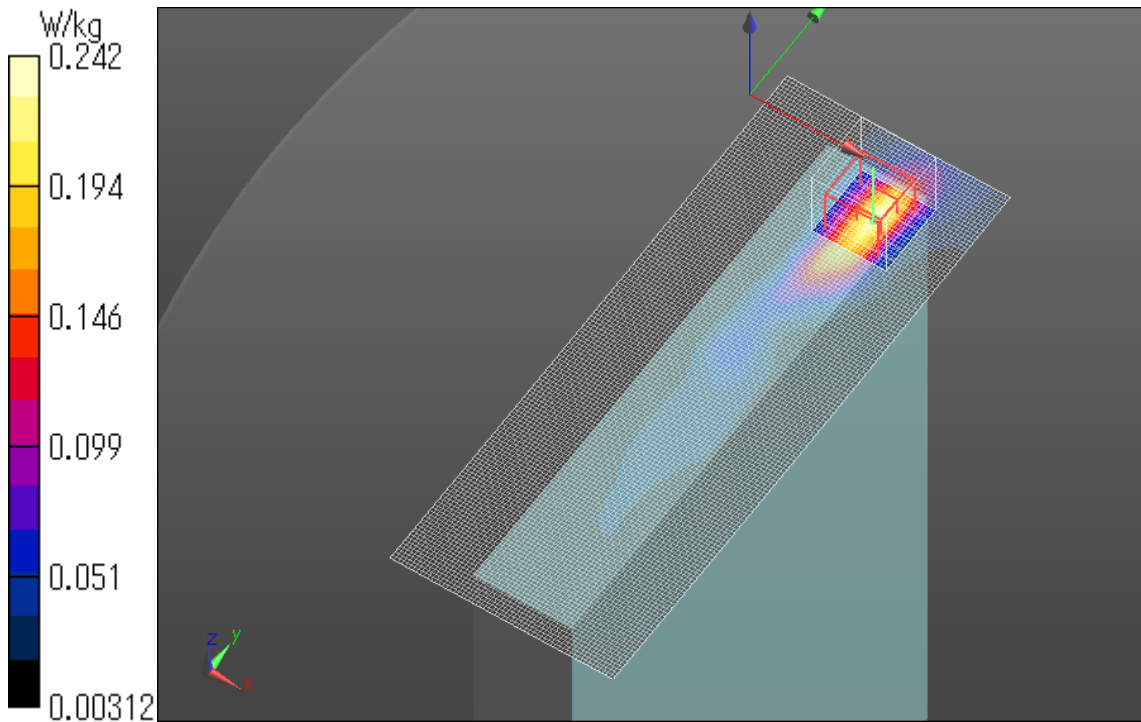
Flat/Touch Position 2 2 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.852 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.329 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.078 W/kg

Maximum value of SAR (measured) = 0.242 W/kg



Plot No.9