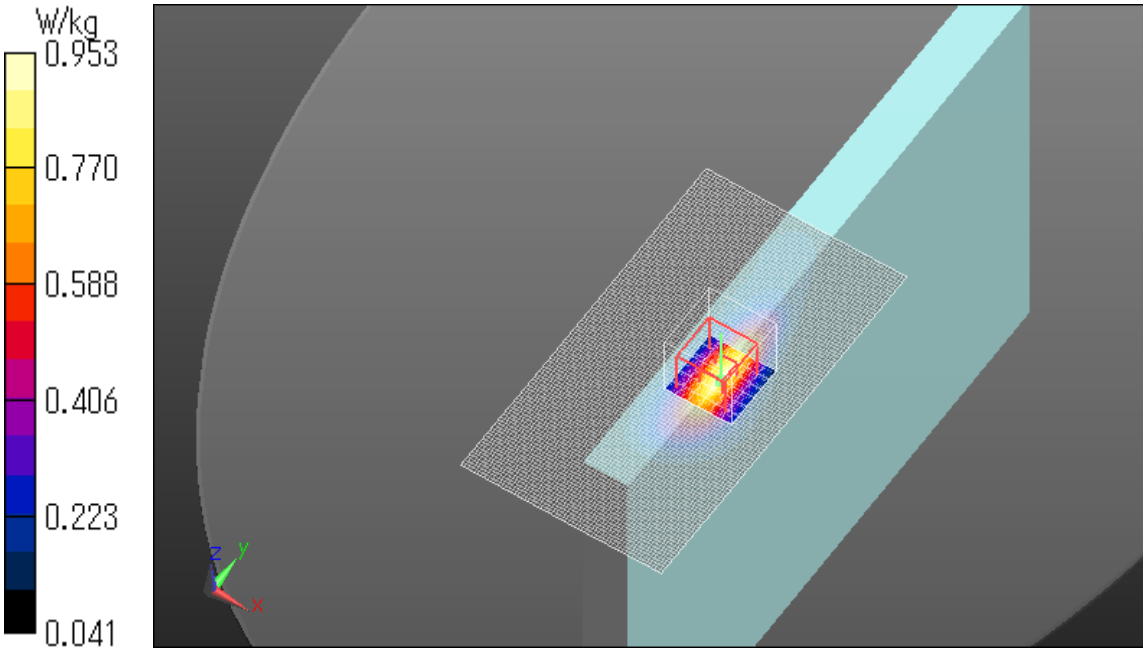
17.8 SAR test plots for LTE Band 12

LTE Band12 Edge1 convertible 0mm QPSK 704MHz Allocation1 Start0 power reduction
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 704 MHz; σ = 0.917 S/m; ε_r = 58.417; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.913 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 35.31 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.353 W/kg
Maximum value of SAR (measured) = 0.953 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



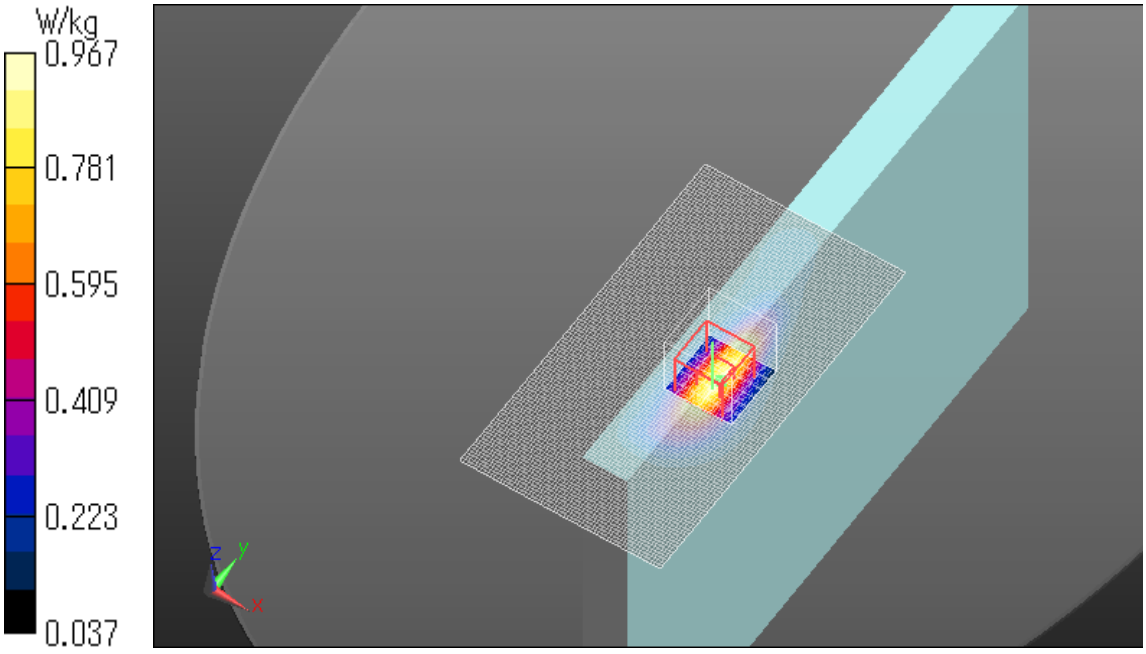
Plot No. 1

LTE Band12 Edge1 convertible 0mm QPSK 704MHz Allocation25 Start12 power reduction
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 704 MHz; σ = 0.917 S/m; ε_r = 58.417; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.968 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 35.77 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.33 W/kg
SAR(1 g) = 0.656 W/kg; SAR(10 g) = 0.358 W/kg
Maximum value of SAR (measured) = 0.967 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

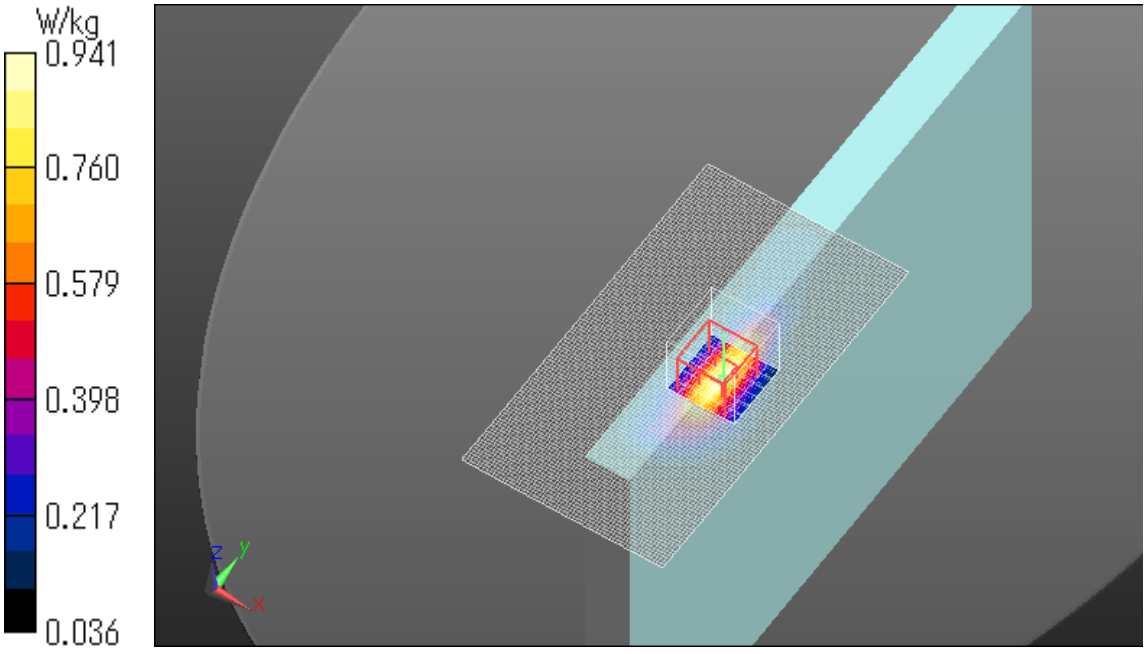


LTE Band12 Edge1 convertible 0mm QPSK 707.5MHz Allocation25 Start12 power reduction
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.92 S/m; ε_r = 58.382; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.936 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 35.12 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.30 W/kg
SAR(1 g) = 0.640 W/kg; SAR(10 g) = 0.348 W/kg
Maximum value of SAR (measured) = 0.941 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

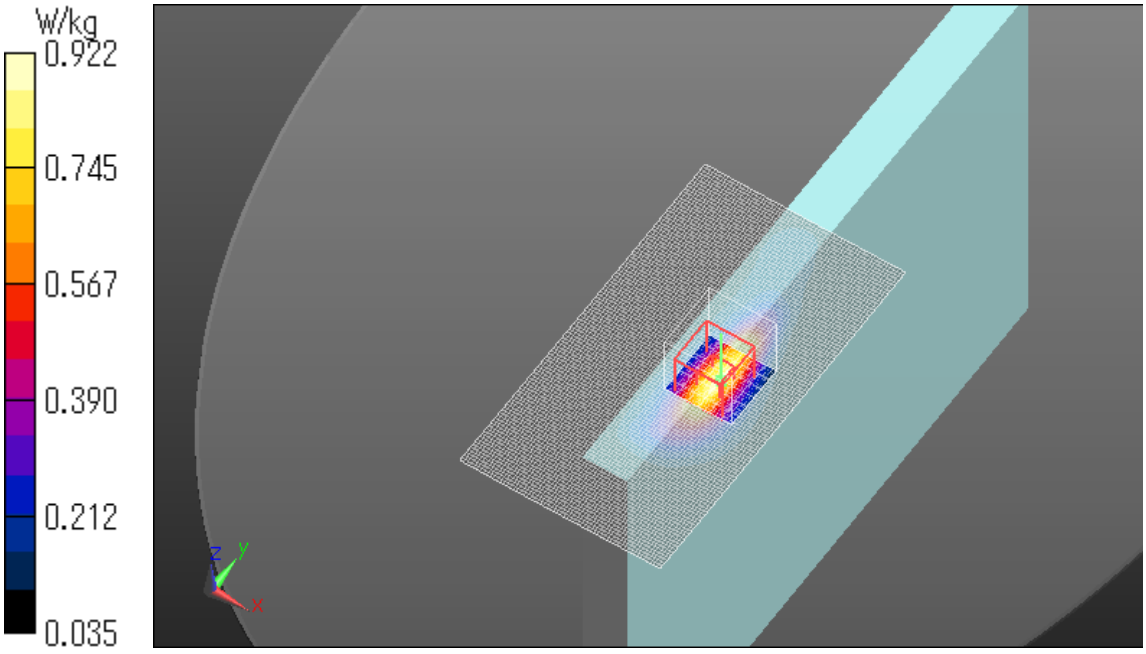


LTE Band12 Edge1 convertible 0mm QPSK 711MHz Allocation25 Start0 power reduction
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 711 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 711 MHz; σ = 0.923 S/m; ε_r = 58.348; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.914 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 34.74 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.26 W/kg
SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.337 W/kg
Maximum value of SAR (measured) = 0.922 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

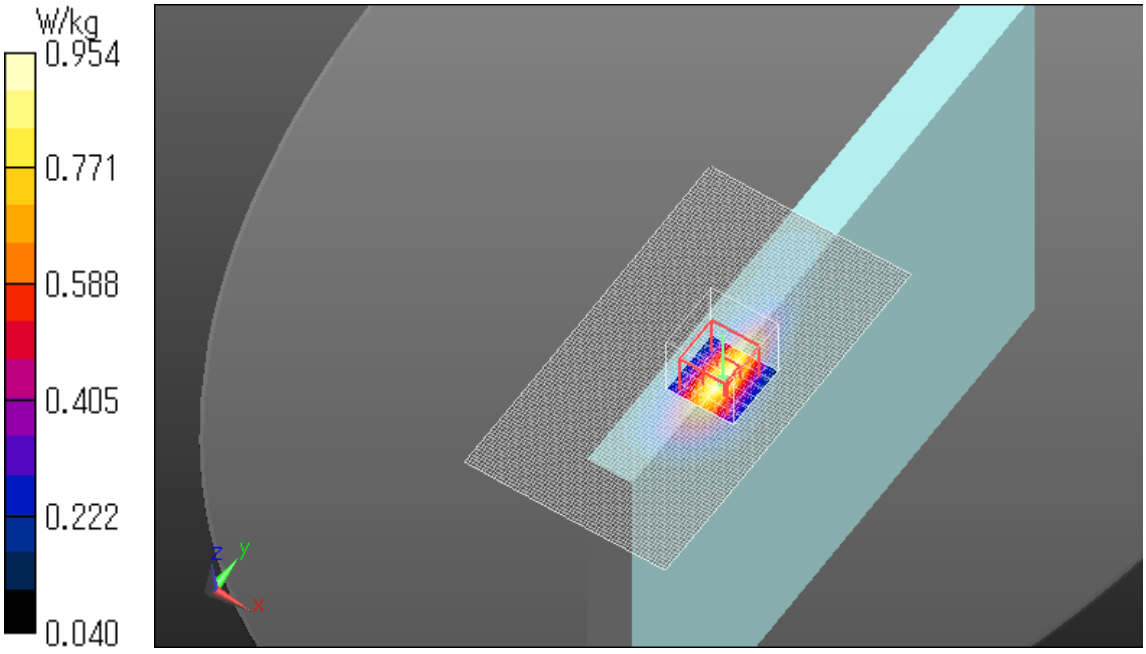


LTE Band12 Edge1 convertible 0mm QPSK 704MHz Allocation50 Start0 power reduction
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 704 MHz; σ = 0.917 S/m; ε_r = 58.417; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.925 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 35.58 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.638 W/kg; SAR(10 g) = 0.348 W/kg
Maximum value of SAR (measured) = 0.954 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

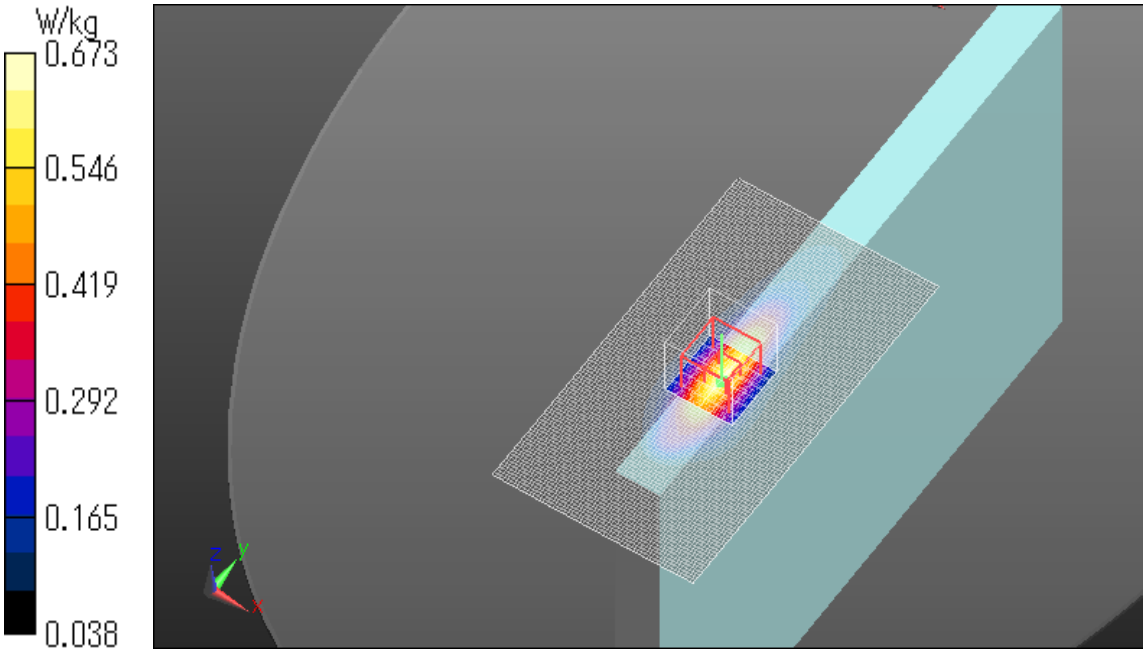


LTE Band12 Edge1 0mm QPSK 704MHz Allocation1 Start0 power reduction
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 704 MHz; σ = 0.917 S/m; ε_r = 58.417; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.653 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.63 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.875 W/kg
SAR(1 g) = 0.463 W/kg; SAR(10 g) = 0.263 W/kg
Maximum value of SAR (measured) = 0.673 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

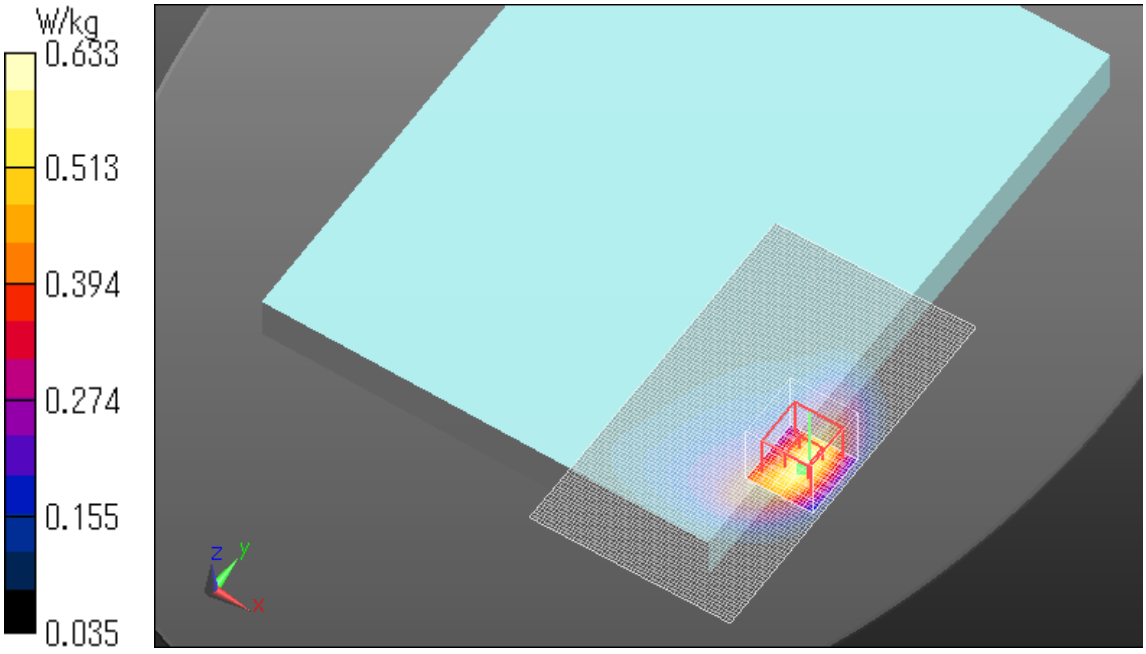


LTE Band12 Rear 0mm QPSK 704MHz Allocation1 Start0 power reduction
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 704 MHz; σ = 0.917 S/m; ε_r = 58.417; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.580 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.20 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.822 W/kg
SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.274 W/kg
Maximum value of SAR (measured) = 0.633 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

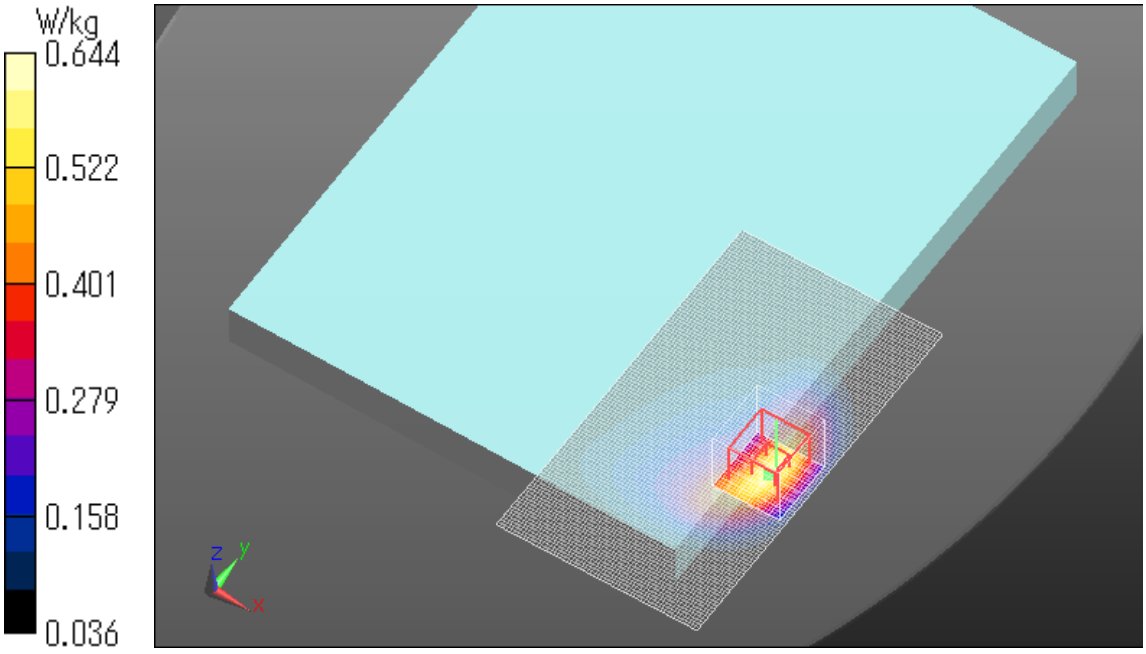


LTE Band12 Rear 0mm QPSK 704MHz Allocation25 Start12 power reduction
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 704 MHz; σ = 0.917 S/m; ε_r = 58.417; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.600 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.49 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.839 W/kg
SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.280 W/kg
Maximum value of SAR (measured) = 0.644 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

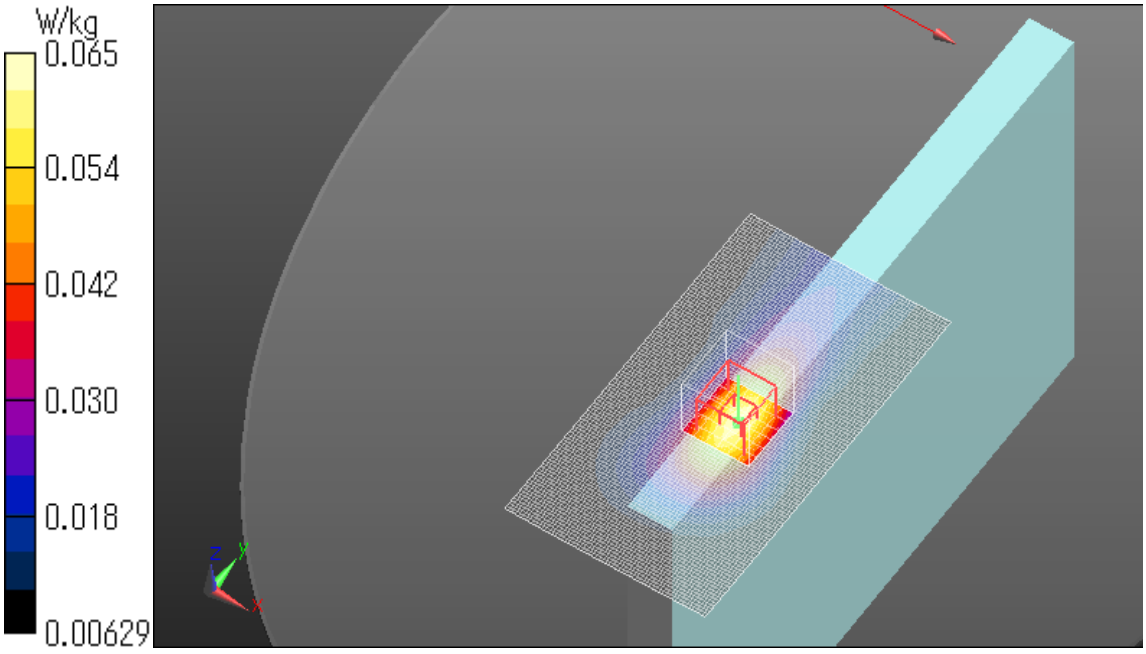


LTE Band12 Edge1 convertible 24mm QPSK 707.5MHz Allocation1 Start0
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.92 S/m; ε_r = 58.382; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0679 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.016 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.0740 W/kg
SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.036 W/kg
Maximum value of SAR (measured) = 0.0655 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

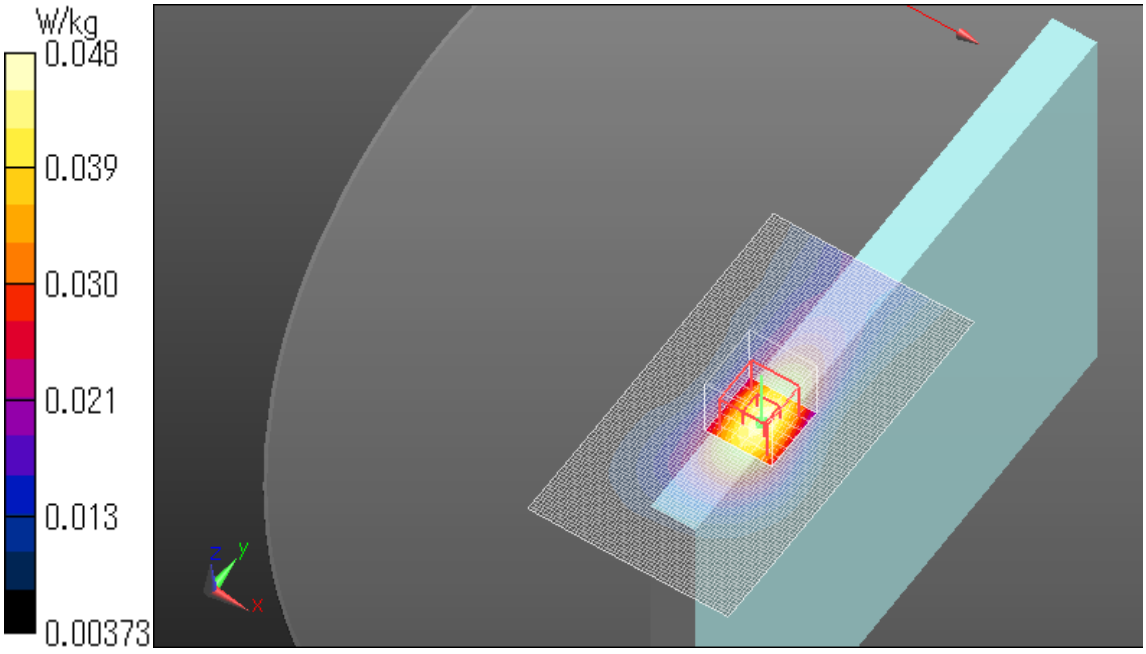


LTE Band12 Edge1 convertible 24mm QPSK 704MHz Allocation25 Start0
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 704 MHz; σ = 0.917 S/m; ε_r = 58.417; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0493 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.734 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.0540 W/kg
SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.026 W/kg
Maximum value of SAR (measured) = 0.0480 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

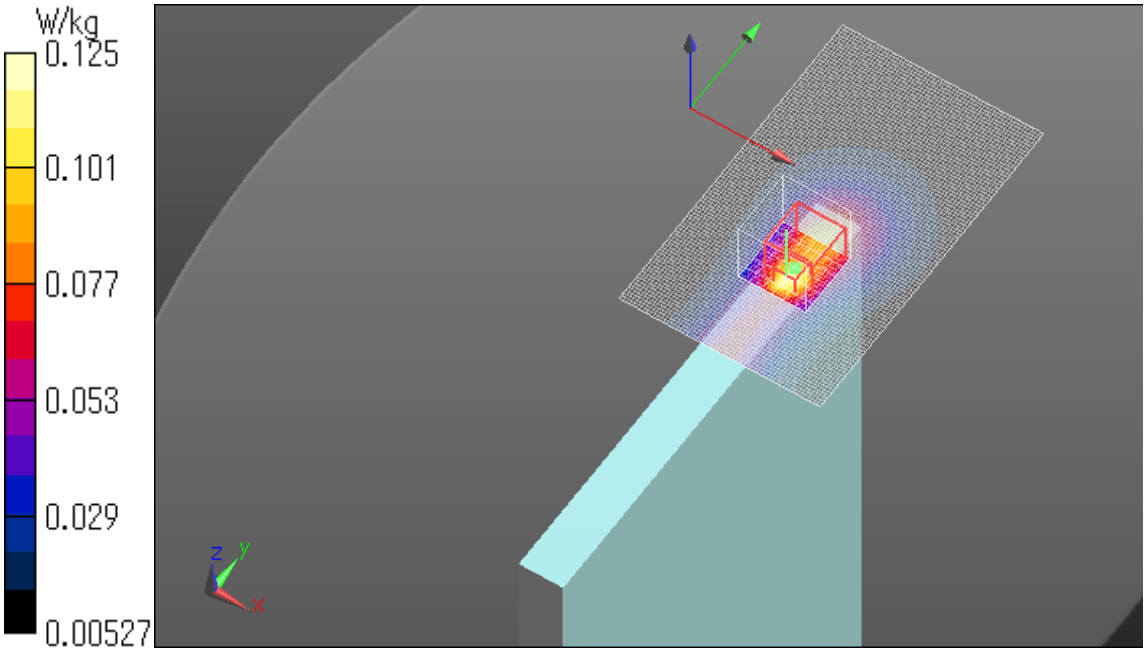


LTE Band12 Edge4 0mm QPSK 707.5MHz Allocation1 Start0
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.92 S/m; ε_r = 58.382; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.112 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.31 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.180 W/kg
SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.048 W/kg
Maximum value of SAR (measured) = 0.125 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

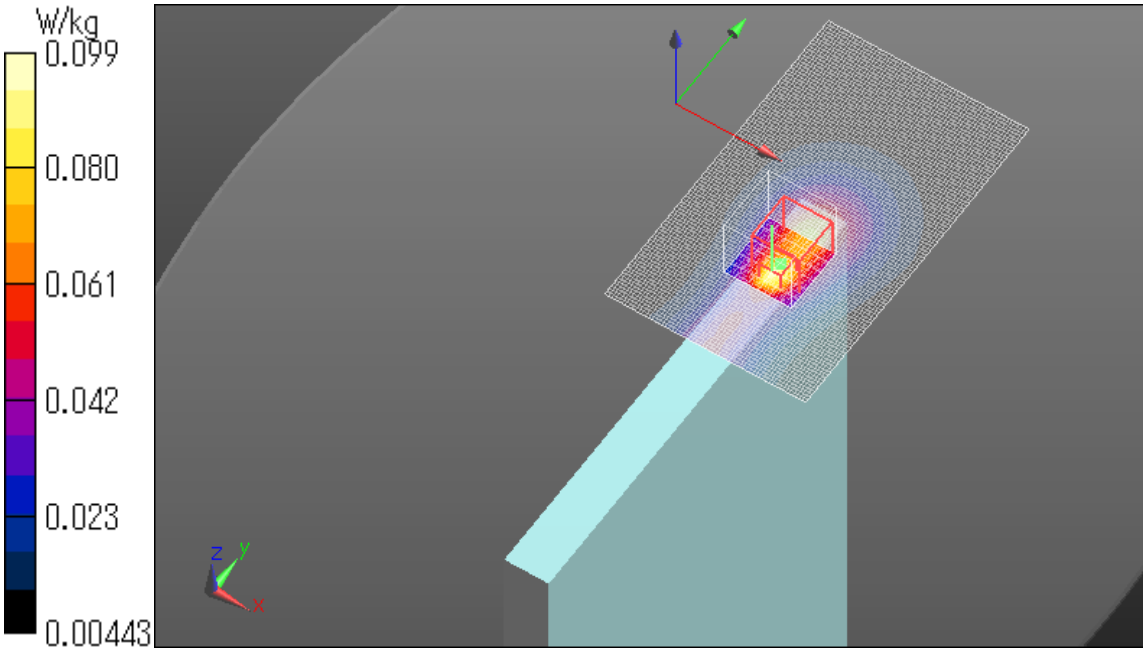


LTE Band12 Edge4 0mm QPSK 704MHz Allocation25 Start0
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 704 MHz; σ = 0.917 S/m; ε_r = 58.417; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0884 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.11 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.142 W/kg
SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.037 W/kg
Maximum value of SAR (measured) = 0.0990 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

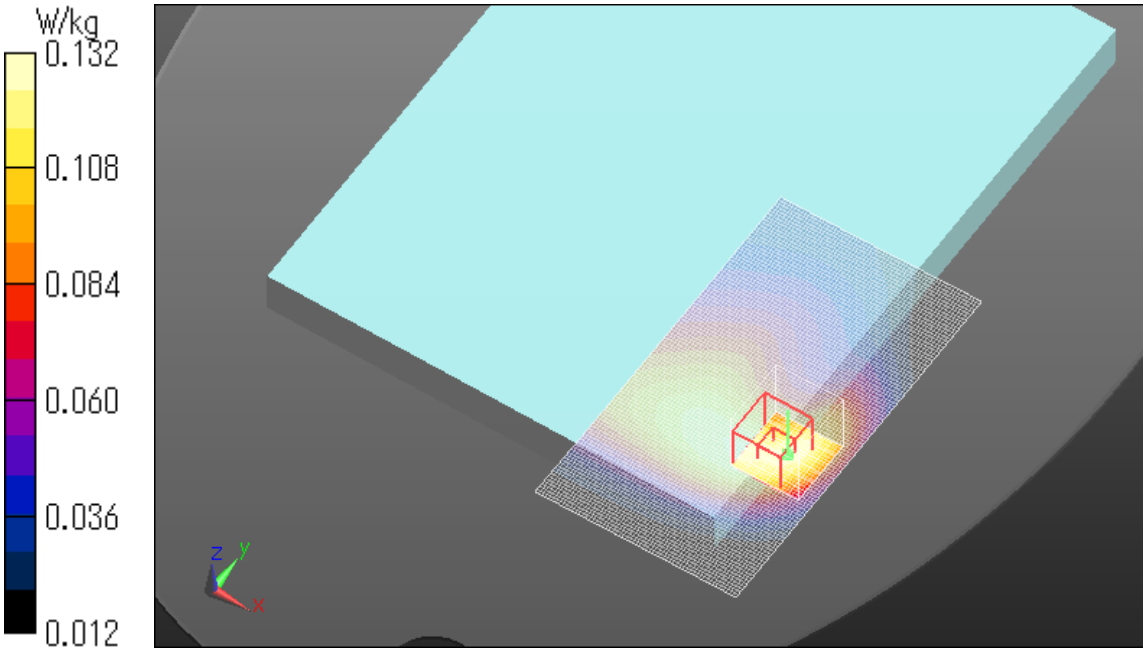


LTE Band12 Rear 19mm QPSK 707.5MHz Allocation1 Start0
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.92 S/m; ε_r = 58.382; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.128 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.73 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.150 W/kg
SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.077 W/kg
Maximum value of SAR (measured) = 0.132 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 Rear 19mm QPSK 704MHz Allocation25 Start0
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 704 MHz; σ = 0.917 S/m; ε_r = 58.417; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.98, 9.98, 9.98); Calibrated: 2016/12/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.100 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.18 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.117 W/kg
SAR(1 g) = 0.085 W/kg; SAR(10 g) = 0.061 W/kg
Maximum value of SAR (measured) = 0.102 W/kg

Date: 2017/10/20
Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.