

17.8 SAR test plots for LTE Band12

LTE Band12 QPSK Allocation1 Start0 704MHz Edge1 0mm 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; $\sigma = 0.915$ S/m; $\epsilon_r = 57.816$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (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: 2016/07/07

Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045

Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.20 W/kg

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

Reference Value = 41.22 V/m; Power Drift = -0.06 dB

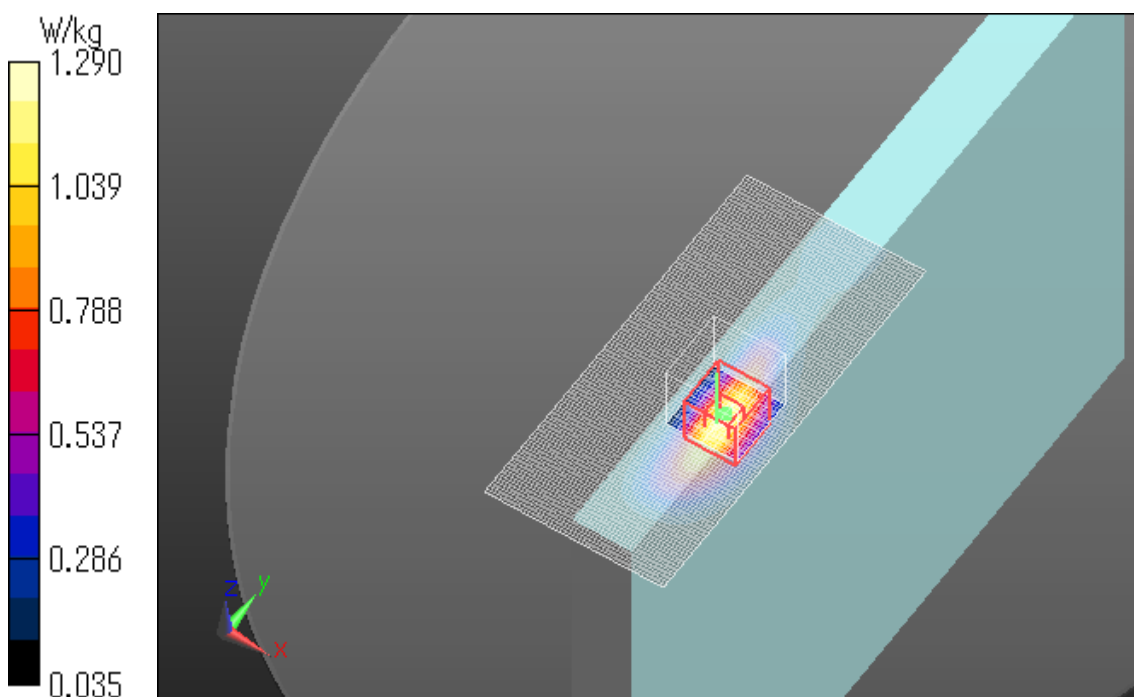
Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.916 W/kg; SAR(10 g) = 0.506 W/kg

Maximum value of SAR (measured) = 1.29 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation1 Start0 707.5MHz Edge1 0mm Power Reduction

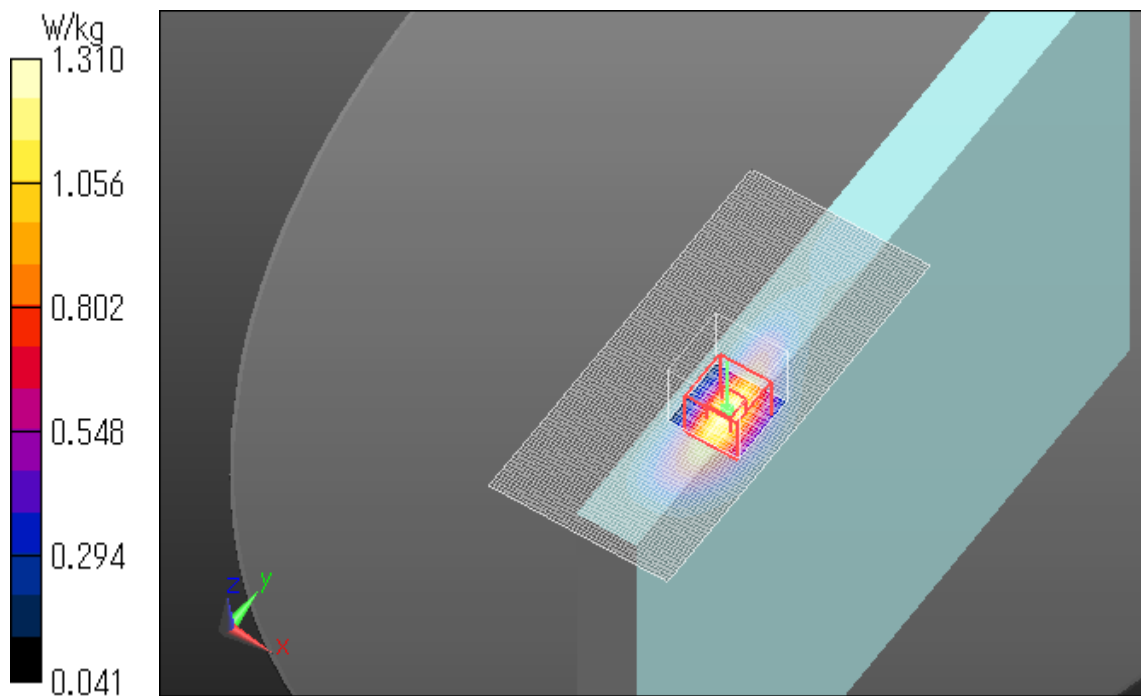
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 57.783$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (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: 2016/07/07
Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045
Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.22 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 40.97 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.69 W/kg
SAR(1 g) = 0.922 W/kg; SAR(10 g) = 0.513 W/kg
Maximum value of SAR (measured) = 1.31 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation1 Start0 711MHz Edge1 0mm 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; $\sigma = 0.921$ S/m; $\epsilon_r = 57.75$; $\rho = 1000$ kg/m³

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: 2016/07/07

Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

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

Reference Value = 41.29 V/m; Power Drift = -0.06 dB

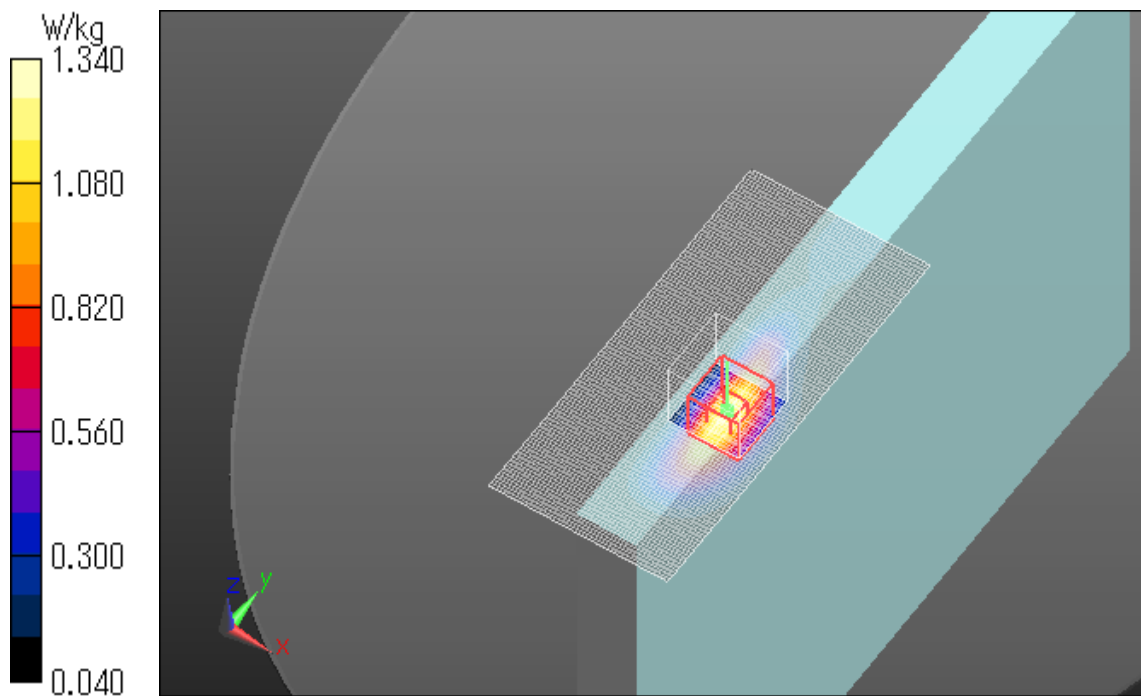
Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.939 W/kg; SAR(10 g) = 0.518 W/kg

Maximum value of SAR (measured) = 1.34 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation25 Start0 704MHz Edge1 0mm Power Reduction

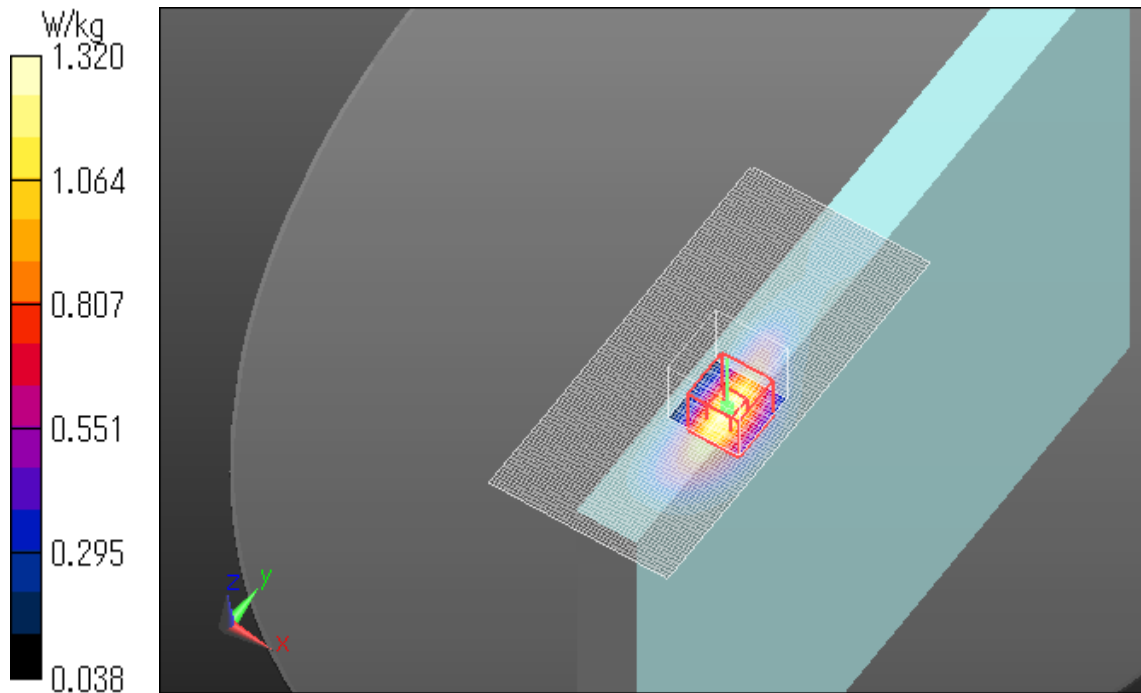
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 704$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 57.816$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement 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: 2016/07/07
Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.22 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 41.33 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.72 W/kg
SAR(1 g) = 0.931 W/kg; SAR(10 g) = 0.513 W/kg
Maximum value of SAR (measured) = 1.32 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation25 Start12 707.5MHz Edge1 0mm Power Reduction

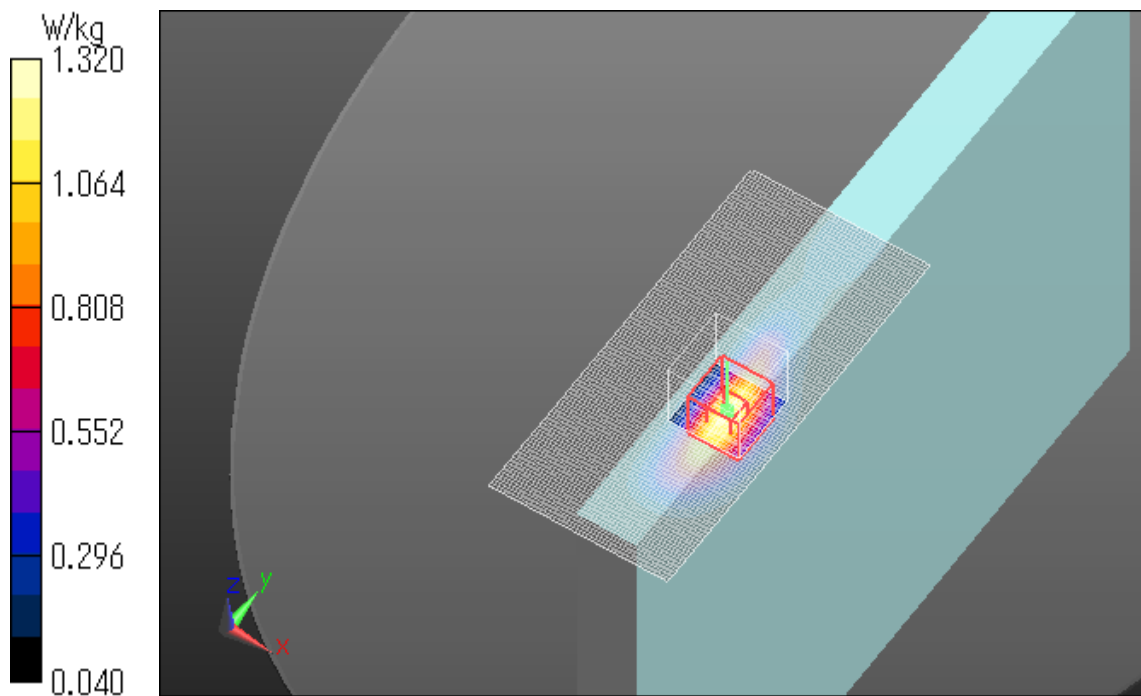
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 57.783$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
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: 2016/07/07
Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.26 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 41.35 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.73 W/kg
SAR(1 g) = 0.933 W/kg; SAR(10 g) = 0.516 W/kg
Maximum value of SAR (measured) = 1.32 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation25 Start0 711MHz Edge1 0mm 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; $\sigma = 0.921$ S/m; $\epsilon_r = 57.75$; $\rho = 1000$ kg/m³

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: 2016/07/07

Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.24 W/kg

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

Reference Value = 41.10 V/m; Power Drift = -0.07 dB

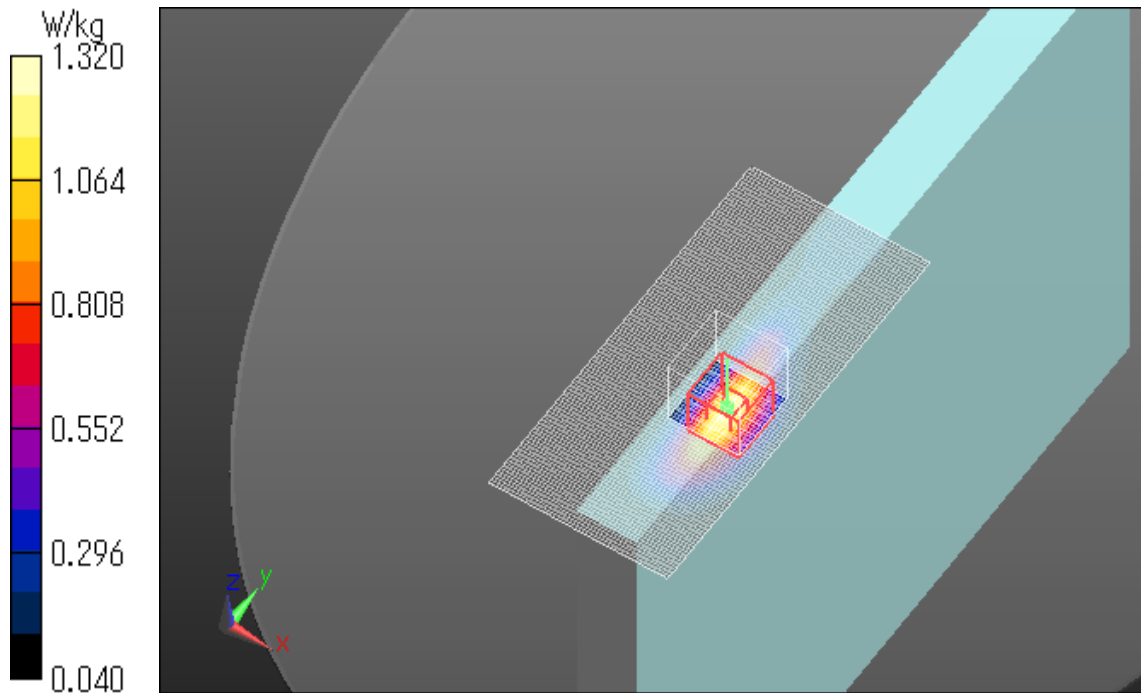
Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.927 W/kg; SAR(10 g) = 0.511 W/kg

Maximum value of SAR (measured) = 1.32 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation50 Start0 704MHz Edge1 0mm Power Reduction

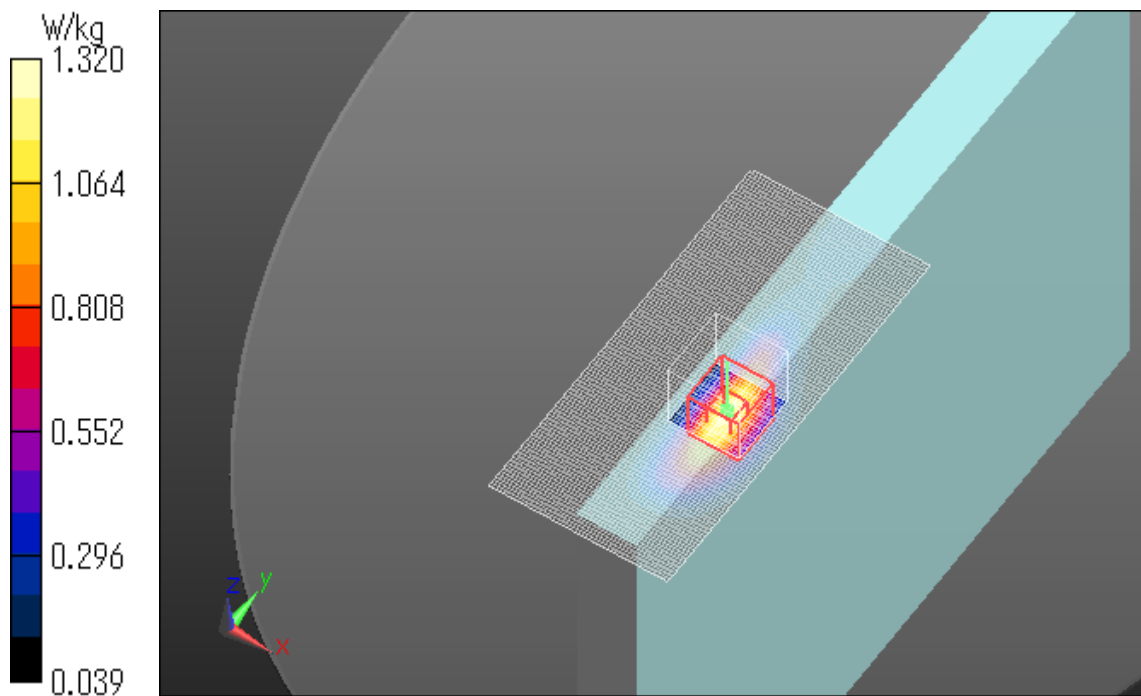
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 704$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 57.816$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement 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: 2016/07/07
Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.24 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 41.36 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.73 W/kg
SAR(1 g) = 0.935 W/kg; SAR(10 g) = 0.517 W/kg
Maximum value of SAR (measured) = 1.32 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation1 Start0 704MHz Rear 0mm Power Reduction

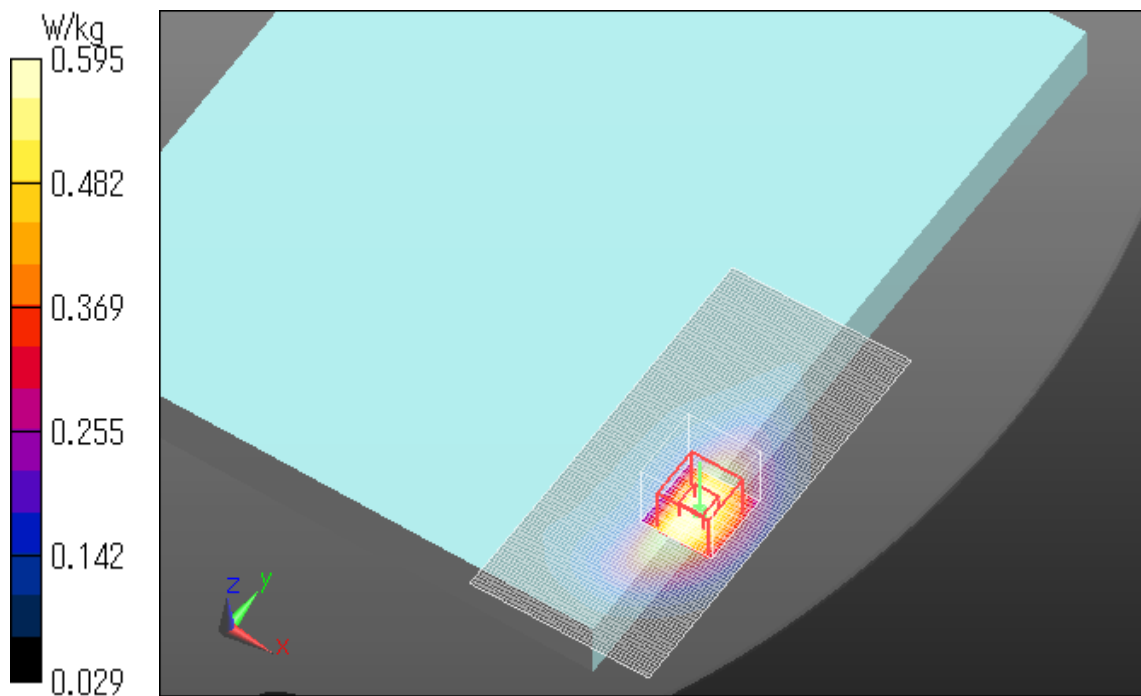
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 704$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 57.816$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement 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: 2016/07/07
Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.675 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.93 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.757 W/kg
SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.282 W/kg
Maximum value of SAR (measured) = 0.595 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation25 Start12 707.5MHz Rear 0mm Power Reduction

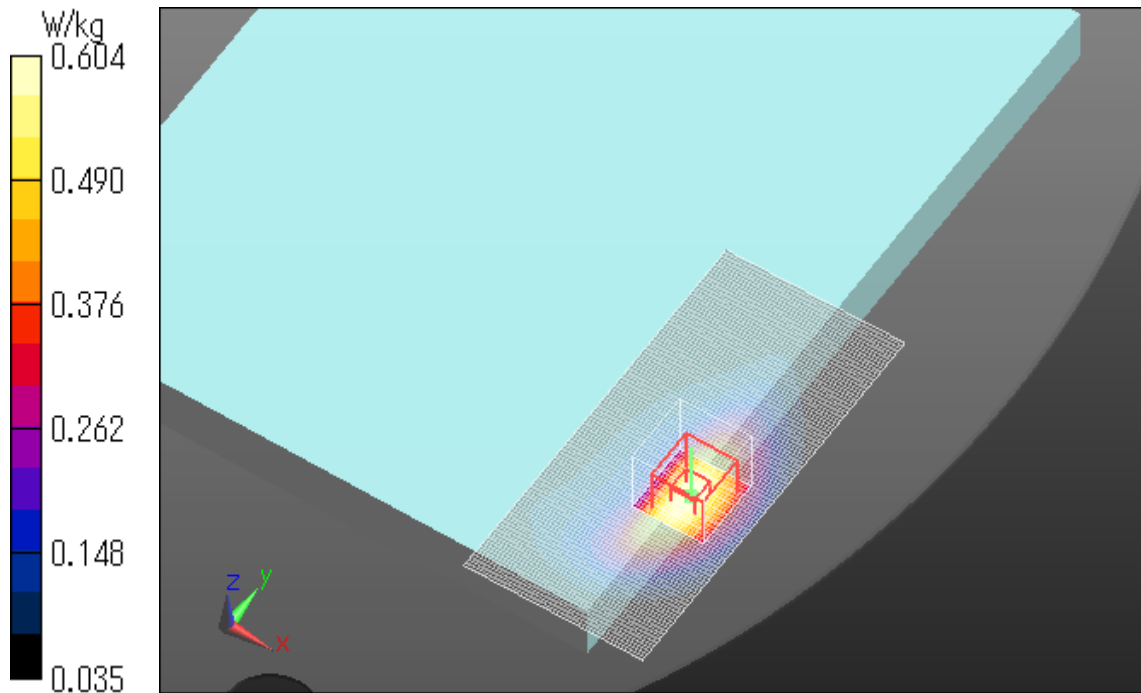
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 57.783$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
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: 2016/07/07
Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.643 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.65 V/m; Power Drift = -0.20 dB
Peak SAR (extrapolated) = 0.748 W/kg
SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.290 W/kg
Maximum value of SAR (measured) = 0.604 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation50 Start0 704MHz Rear 0mm Power Reduction

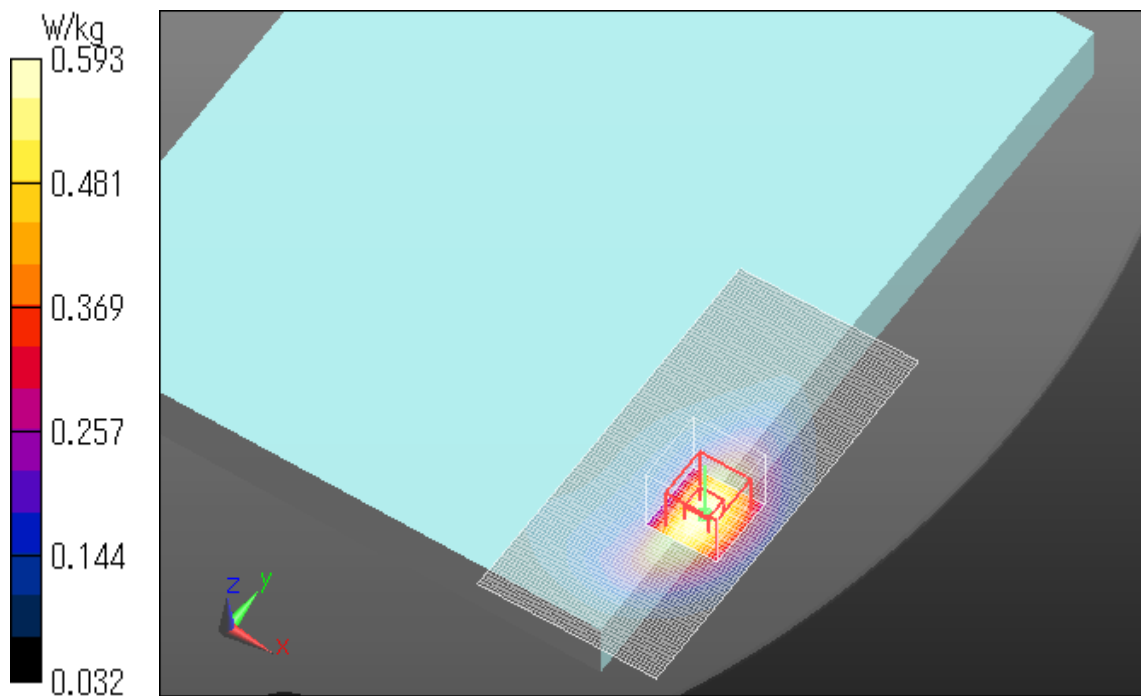
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 704$ MHz; $\sigma = 0.915$ S/m; $\epsilon_r = 57.816$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement 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: 2016/07/07
Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.609 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 27.09 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.737 W/kg
SAR(1 g) = 0.452 W/kg; SAR(10 g) = 0.282 W/kg
Maximum value of SAR (measured) = 0.593 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation1 Start0 707.5MHz Edge1 37mm

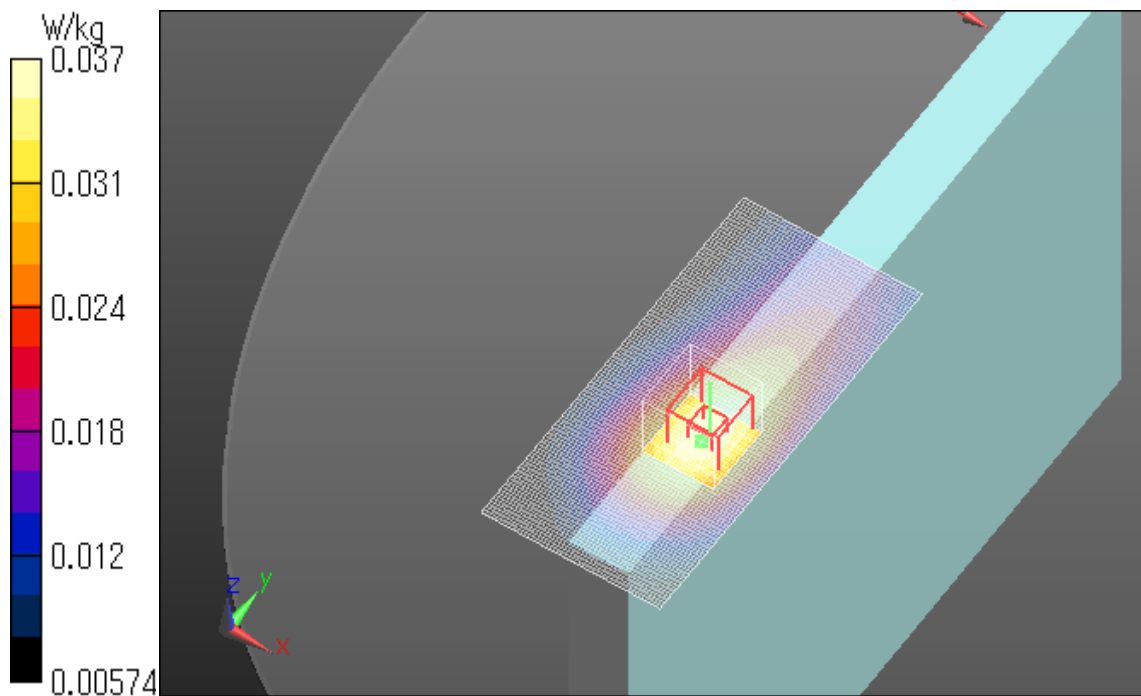
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 57.783$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
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: 2016/07/07
Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0370 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.720 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.0400 W/kg
SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.023 W/kg
Maximum value of SAR (measured) = 0.0367 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation25 Start0 711MHz Edge1 37mm

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; $\sigma = 0.921$ S/m; $\epsilon_r = 57.75$; $\rho = 1000$ kg/m³

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: 2016/07/07

Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0267 W/kg

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

Reference Value = 5.749 V/m; Power Drift = -0.13 dB

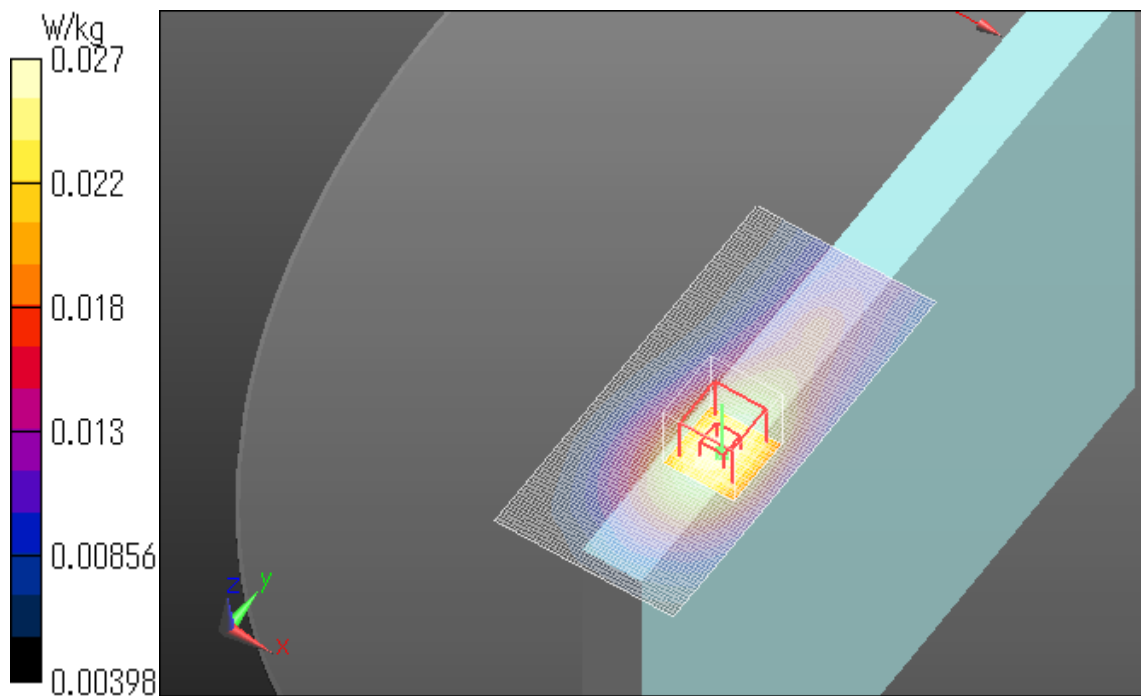
Peak SAR (extrapolated) = 0.0300 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.0269 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation1 Start0 707.5MHz Edge2 0mm

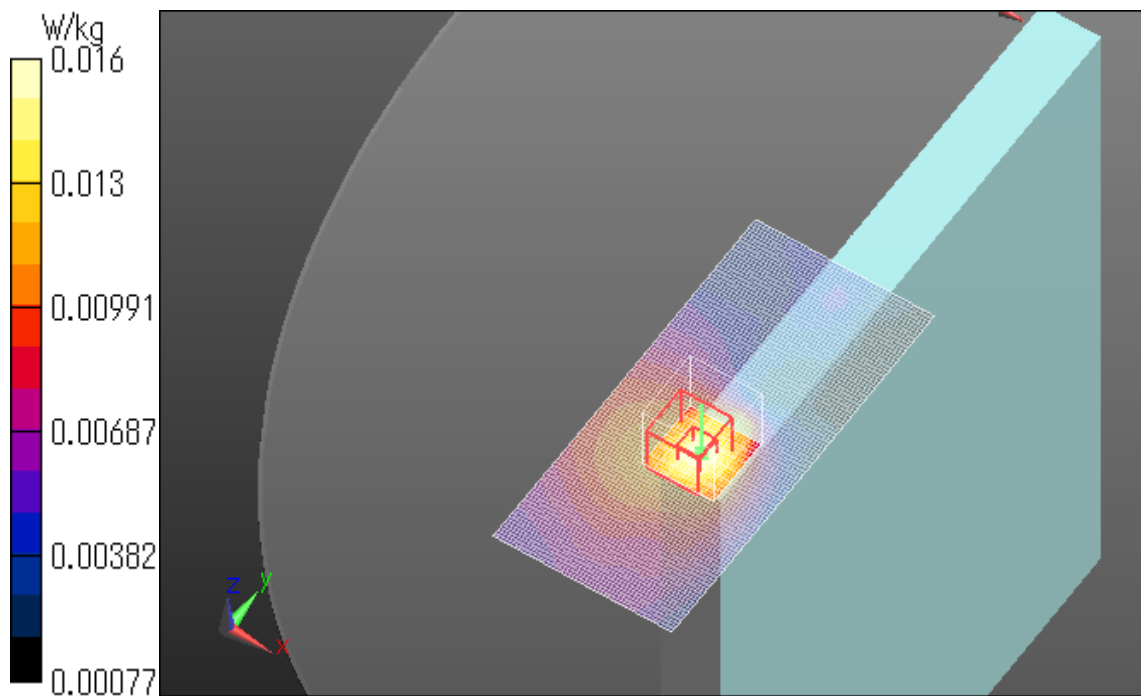
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 57.783$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
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: 2016/07/07
Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0147 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.574 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.0200 W/kg
SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.00814 W/kg
Maximum value of SAR (measured) = 0.0160 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation25 Start0 711MHz Edge2 0mm

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; $\sigma = 0.921$ S/m; $\epsilon_r = 57.75$; $\rho = 1000$ kg/m³

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: 2016/07/07

Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.00561 W/kg

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

Reference Value = 2.373 V/m; Power Drift = -0.11 dB

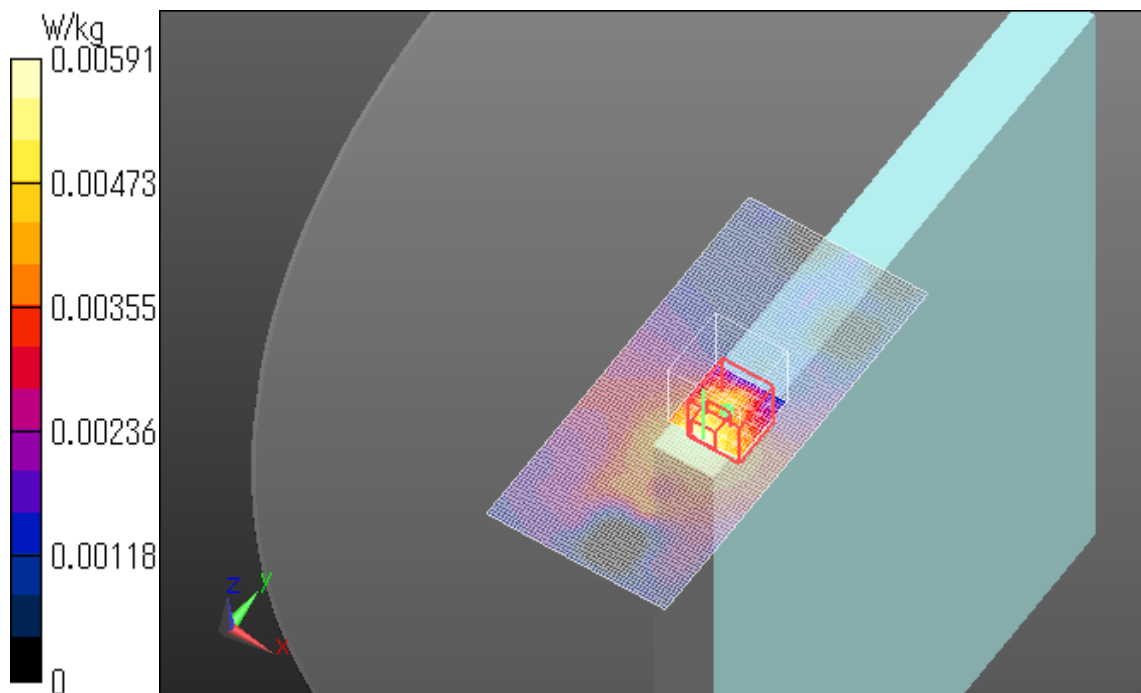
Peak SAR (extrapolated) = 0.00789 W/kg

SAR(1 g) = 0.00404 W/kg; SAR(10 g) = 0.00238 W/kg

Maximum value of SAR (measured) = 0.00591 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation1 Start0 707.5MHz Edge2 tilt 0mm

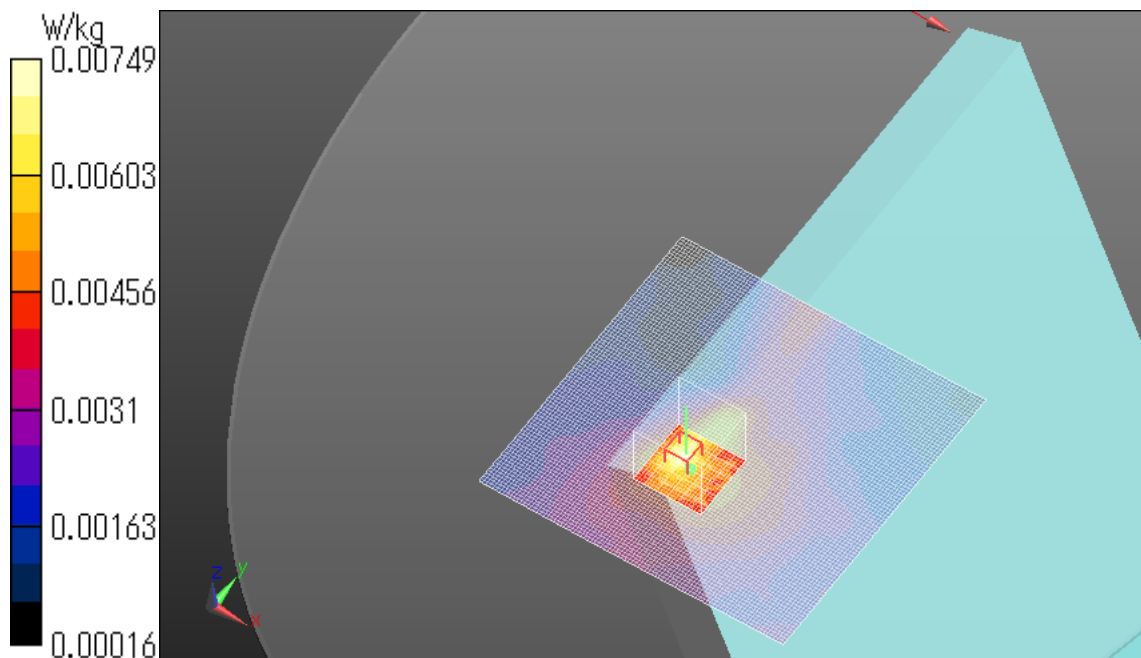
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 54.687$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3917; ConvF(10.27, 10.27, 10.27); Calibrated: 2016/05/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1369; Calibrated: 2016/05/13
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (91x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.00646 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.860 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.0100 W/kg
SAR(1 g) = 0.00516 W/kg
Maximum value of SAR (measured) = 0.00749 W/kg

Date: 2017/02/17

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation25 Start0 711MHz Edge2 tilt 0mm

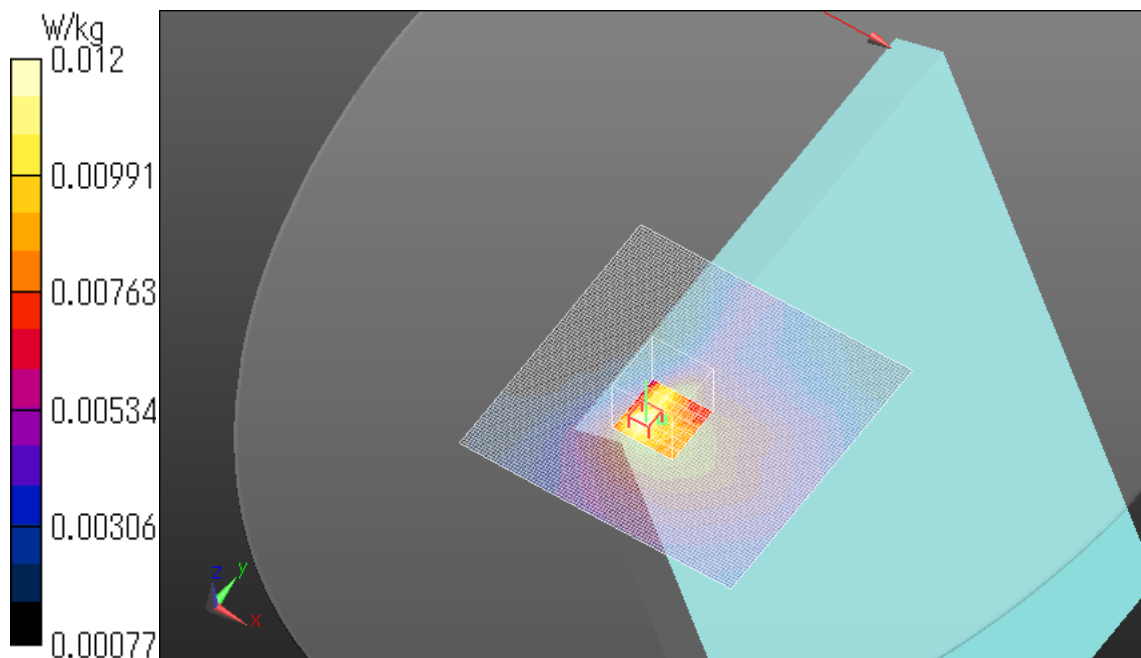
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 711 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 711$ MHz; $\sigma = 0.922$ S/m; $\epsilon_r = 54.647$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3917; ConvF(10.27, 10.27, 10.27); Calibrated: 2016/05/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1369; Calibrated: 2016/05/13
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (91x91x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0110 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 3.420 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.0170 W/kg
SAR(1 g) = 0.00893 W/kg
Maximum value of SAR (measured) = 0.0122 W/kg

Date: 2017/02/17

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation1 Start0 707.5MHz Edge3 0mm

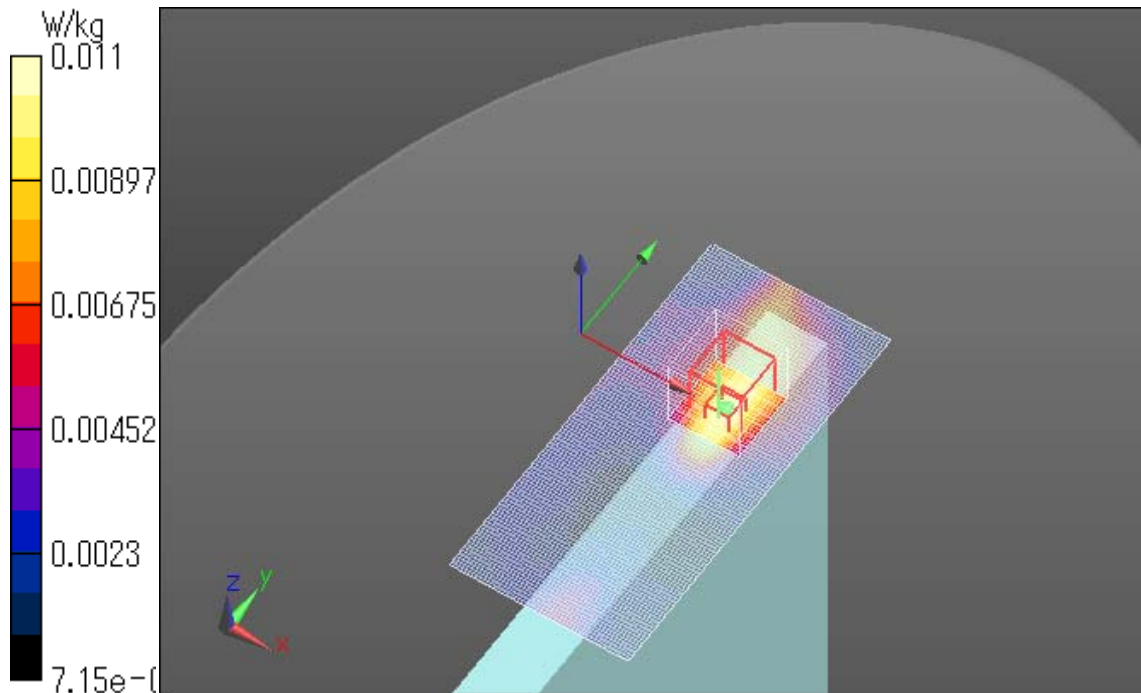
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 57.783$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
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: 2016/07/07
Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0109 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 3.797 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.0150 W/kg
SAR(1 g) = 0.00818 W/kg; SAR(10 g) = 0.00525 W/kg
Maximum value of SAR (measured) = 0.0112 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation25 Start0 711MHz Edge3 0mm

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; $\sigma = 0.921$ S/m; $\epsilon_r = 57.75$; $\rho = 1000$ kg/m³

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: 2016/07/07

Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0241 W/kg

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

Reference Value = 5.583 V/m; Power Drift = 0.14 dB

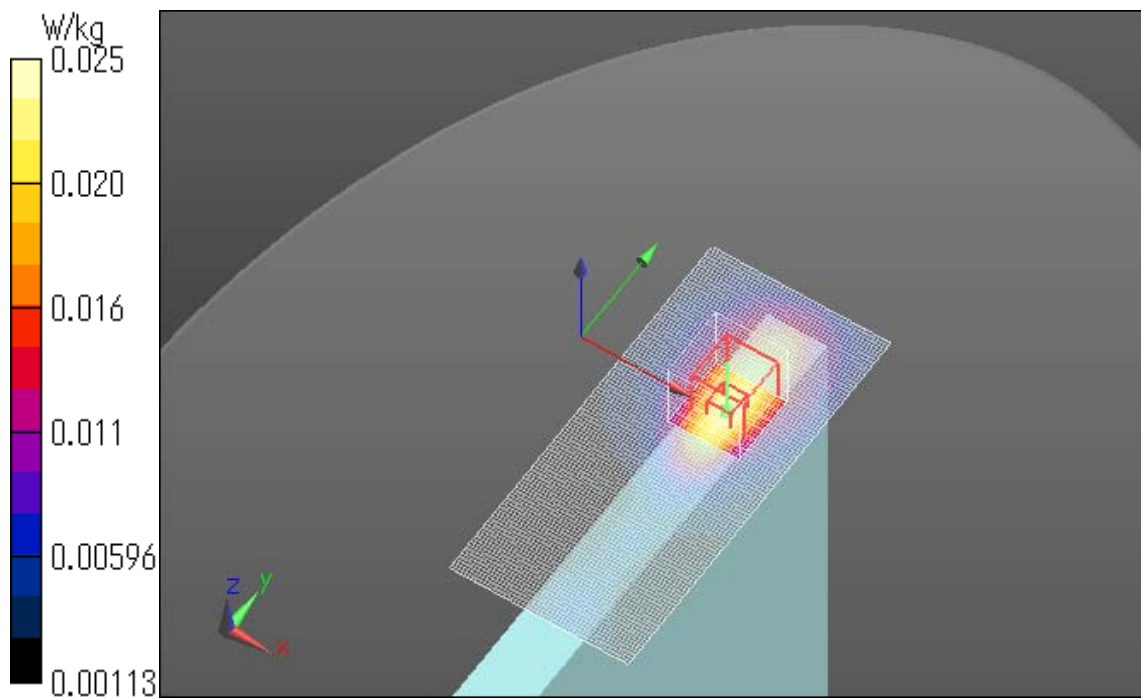
Peak SAR (extrapolated) = 0.0320 W/kg

SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.0253 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation1 Start0 707.5MHz Edge4 0mm

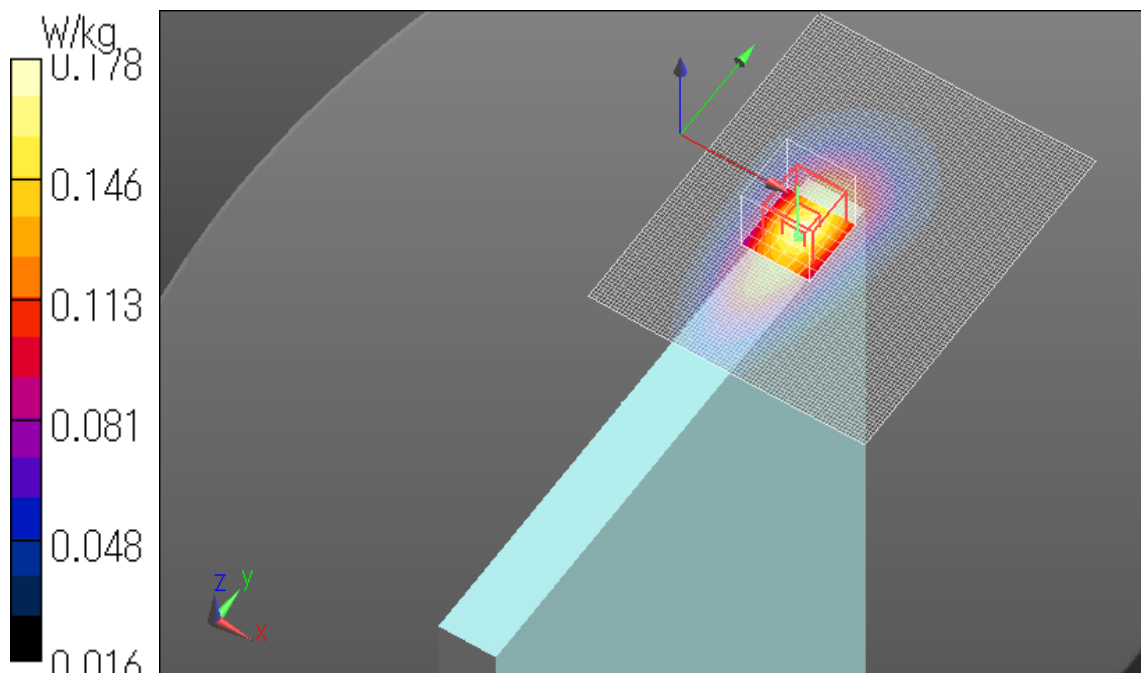
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 57.783$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
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: 2016/07/07
Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.168 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.04 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.215 W/kg
SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.088 W/kg
Maximum value of SAR (measured) = 0.178 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation25 Start0 711MHz Edge4 0mm

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; $\sigma = 0.921$ S/m; $\epsilon_r = 57.75$; $\rho = 1000$ kg/m³

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: 2016/07/07

Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.148 W/kg

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

Reference Value = 14.21 V/m; Power Drift = -0.11 dB

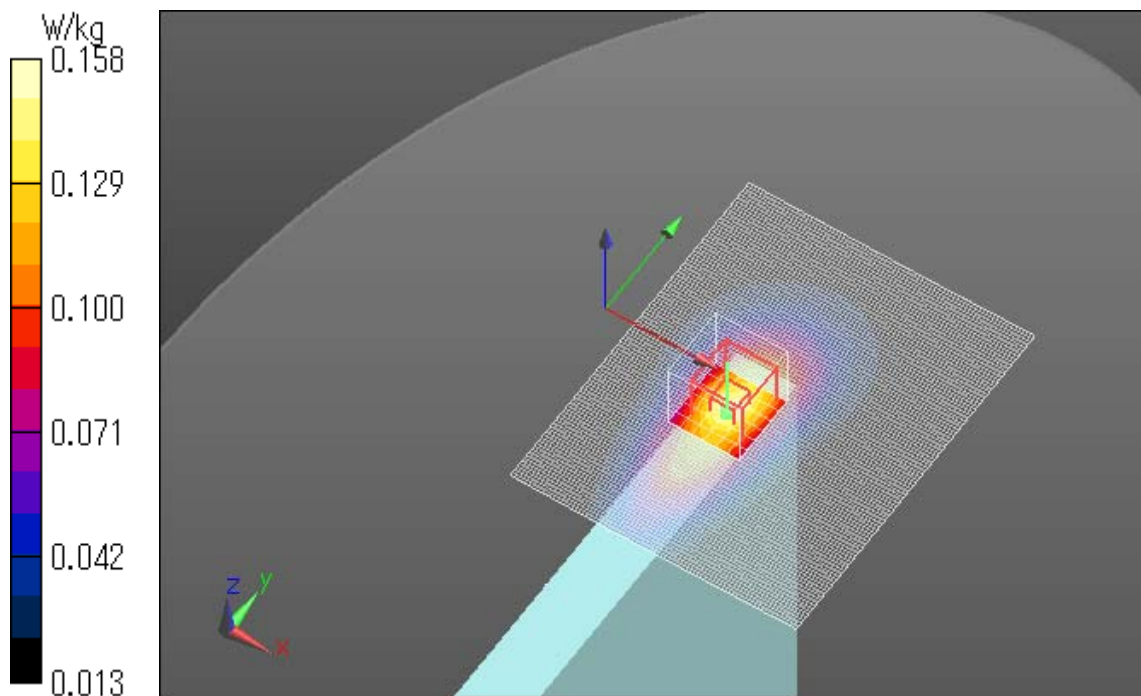
Peak SAR (extrapolated) = 0.192 W/kg

SAR(1 g) = 0.120 W/kg; SAR(10 g) = 0.077 W/kg

Maximum value of SAR (measured) = 0.158 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation1 Start0 707.5MHz Edge4 tilt 0mm

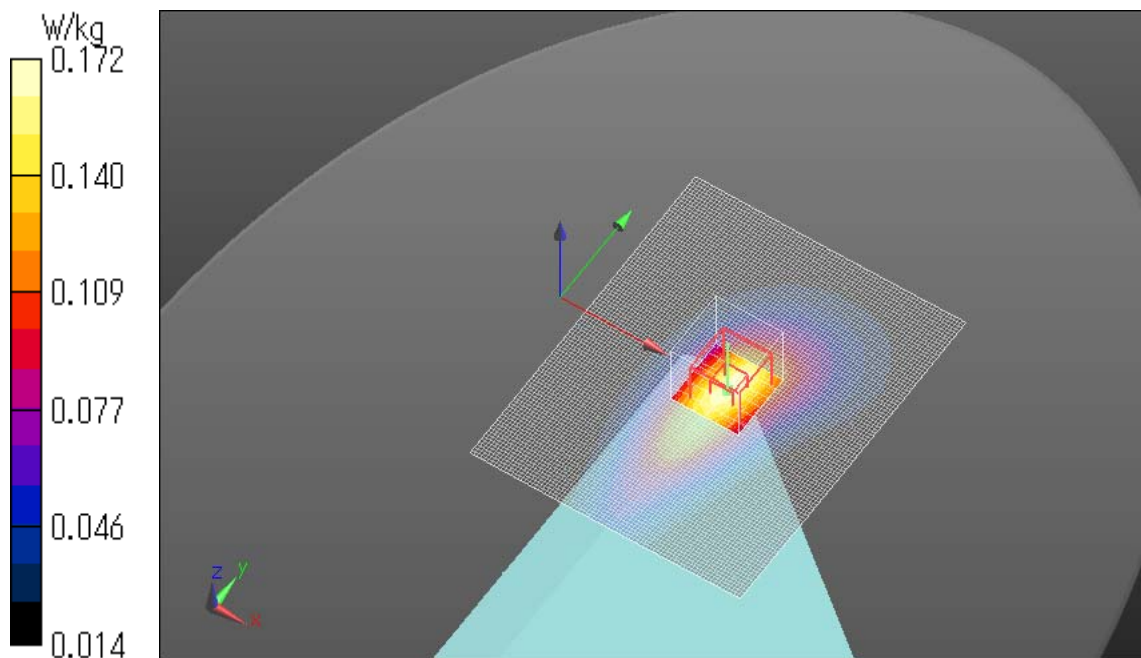
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 54.687$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3917; ConvF(10.27, 10.27, 10.27); Calibrated: 2016/05/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1369; Calibrated: 2016/05/13
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.171 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.72 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.211 W/kg
SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.087 W/kg
Maximum value of SAR (measured) = 0.172 W/kg

Date: 2017/02/17

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation25 Start0 711MHz Edge4 tilt 0mm

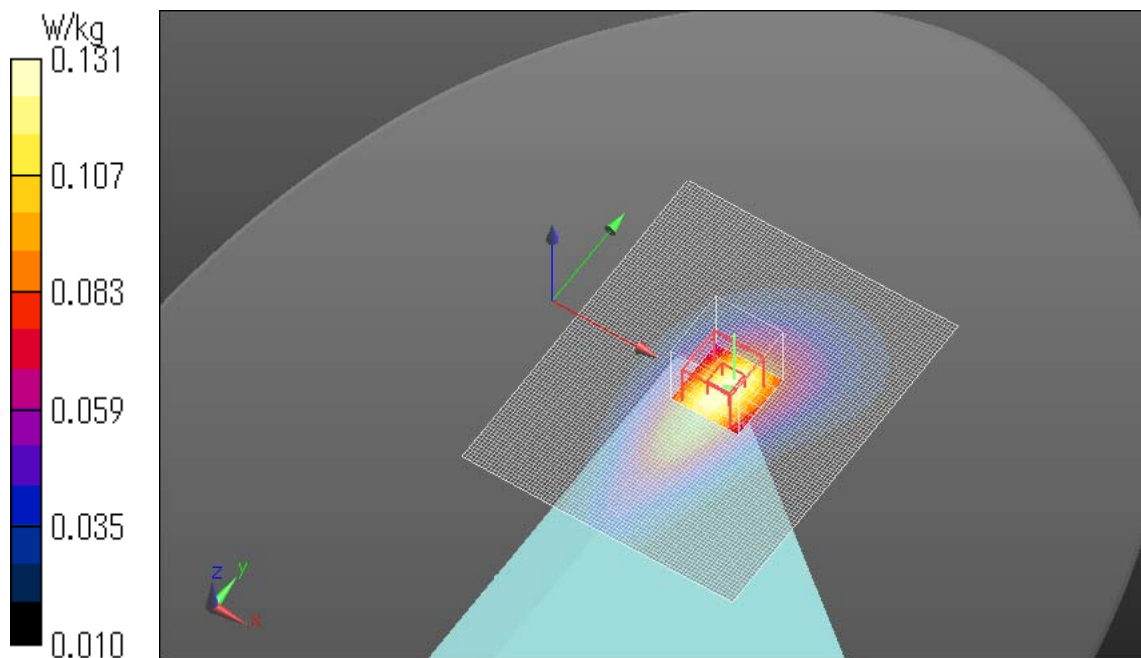
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 711 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 711$ MHz; $\sigma = 0.922$ S/m; $\epsilon_r = 54.647$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3917; ConvF(10.27, 10.27, 10.27); Calibrated: 2016/05/12;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1369; Calibrated: 2016/05/13
Phantom: ELI v5.0 (30deg probe tilt); Type: QDOVA002AA; Serial: TP:1203
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.130 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.97 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.162 W/kg
SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.067 W/kg
Maximum value of SAR (measured) = 0.131 W/kg

Date: 2017/02/17

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation1 Start0 707.5MHz Rear 20mm

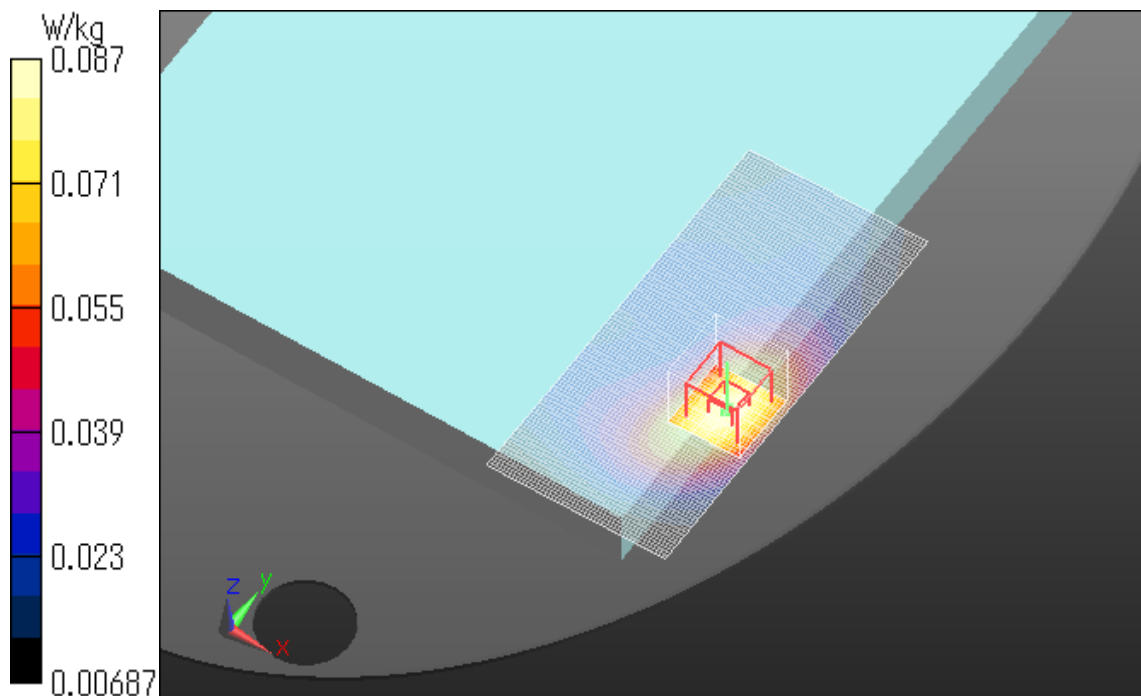
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 57.783$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
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: 2016/07/07
Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0880 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.31 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.0980 W/kg
SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.050 W/kg
Maximum value of SAR (measured) = 0.0873 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.



LTE Band12 QPSK Allocation25 Start0 711MHz Rear 20mm

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; $\sigma = 0.921$ S/m; $\epsilon_r = 57.75$; $\rho = 1000$ kg/m³

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: 2016/07/07

Phantom: ELI v4.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1045

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Area Scan (51x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0783 W/kg

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

Reference Value = 9.696 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.0850 W/kg

SAR(1 g) = 0.063 W/kg; SAR(10 g) = 0.044 W/kg

Maximum value of SAR (measured) = 0.0752 W/kg

Date: 2017/01/16

Ambient Temp. : 24.0 degree.C. Liquid Temp.; 23.5 degree.C.

