

17.3 SAR Test Plots for Repeat Measurement

WCDMA Band2 Edge1 0mm RMC12.2k 1907.6MHz power reduction Repeat

Communication System: UID 0, WCDMA (0); Communication System Band: Band II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.539$ S/m; $\epsilon_r = 52.225$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3825; ConvF(8, 8, 8); Calibrated: 2017/12/11;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2017/07/11

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)

WCDMA B2/Edge1/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

WCDMA B2/Edge1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.85 V/m; Power Drift = -0.08 dB

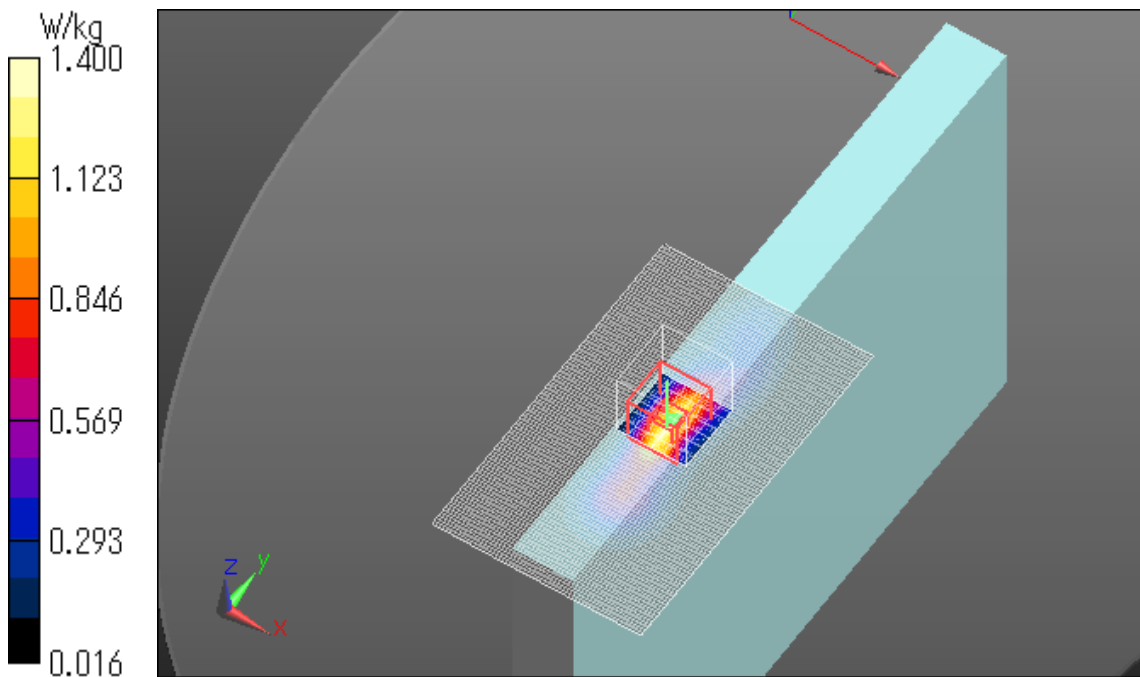
Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 0.915 W/kg; SAR(10 g) = 0.437 W/kg

Maximum value of SAR (measured) = 1.40 W/kg

Date: 2018/04/16

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



WCDMA Band4 Edge1 0mm RMC12.2k 1712.4MHz power reduction Repeat

Communication System: UID 0, WCDMA (0); Communication System Band: Band IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.439$ S/m; $\epsilon_r = 52.041$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3825; ConvF(8.29, 8.29, 8.29); Calibrated: 2017/12/11;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2017/07/11

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)

WCDMA B4/Edge1/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

WCDMA B4/Edge1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.43 V/m; Power Drift = 0.02 dB

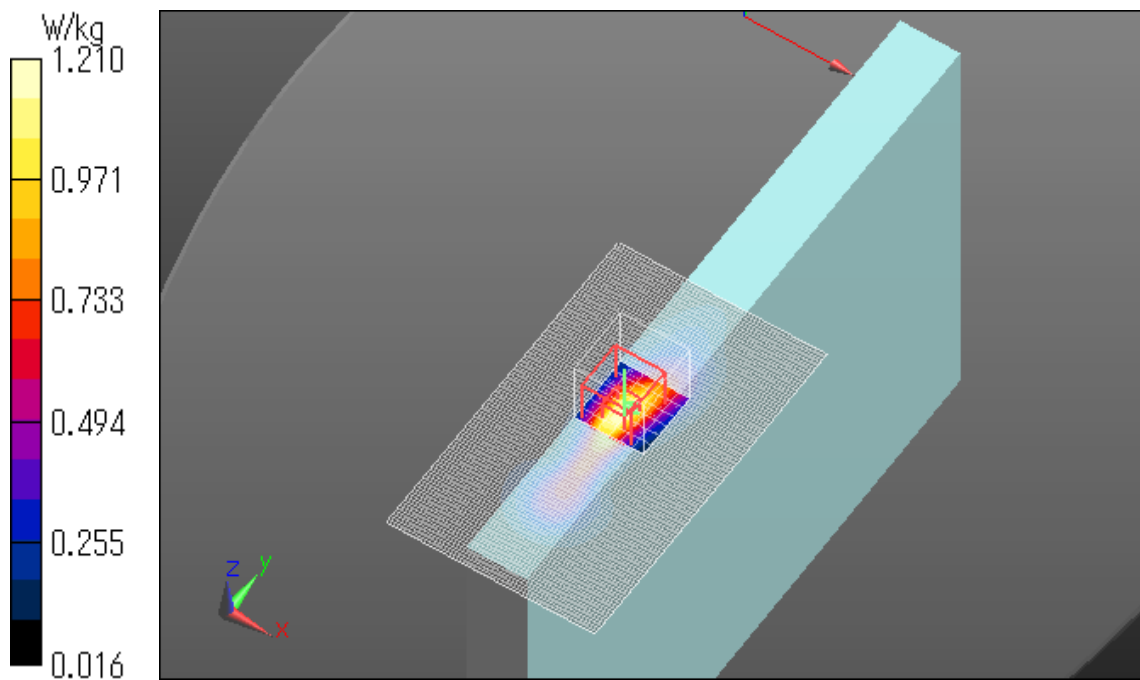
Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.859 W/kg; SAR(10 g) = 0.440 W/kg

Maximum value of SAR (measured) = 1.21 W/kg

Date: 2018/04/25

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



WCDMA Band5 Edge1 0mm RMC 12.2k 846.6MHz power reduction Repeat

Communication System: UID 0, WCDMA (0); Communication System Band: Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.985$ S/m; $\epsilon_r = 55.757$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

WCDMA B5/Edge1/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

WCDMA B5/Edge1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36.50 V/m; Power Drift = 0.05 dB

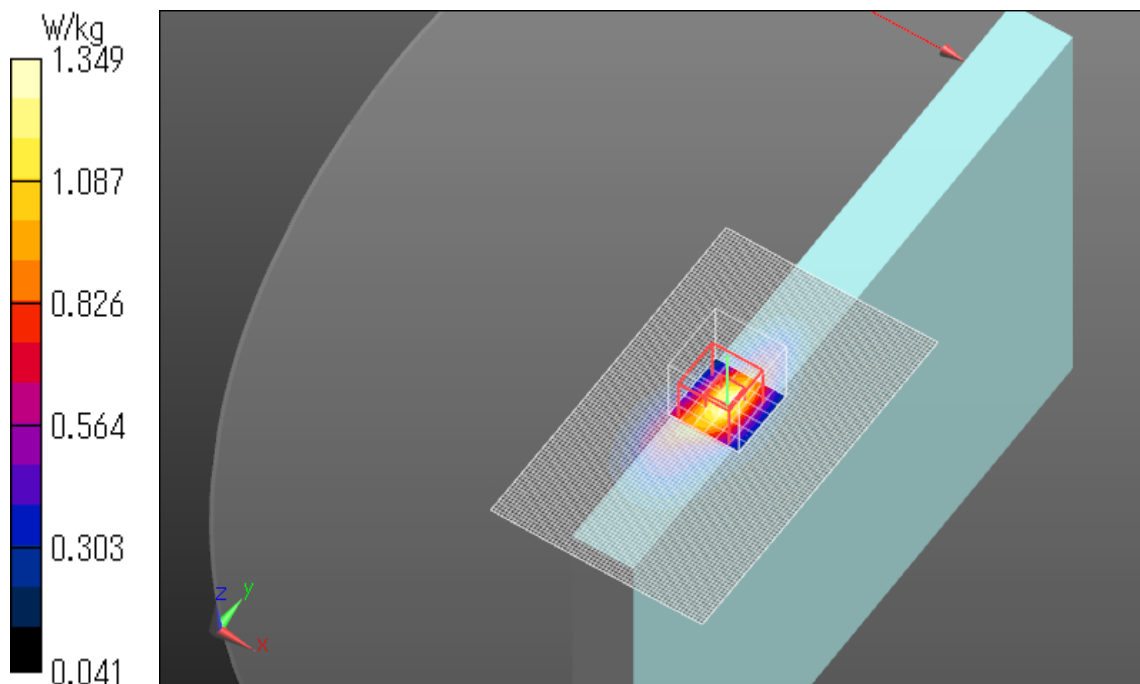
Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.949 W/kg; SAR(10 g) = 0.526 W/kg

Maximum value of SAR (measured) = 1.35 W/kg

Date: 2018/04/24

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



LTE Band2 Edge1 0mm QPSK 1900MHz Allocation50 Start24 power reduction Repeat

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.528$ S/m; $\epsilon_r = 52.266$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3825; ConvF(8, 8, 8); Calibrated: 2017/12/11;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2017/07/11

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)

LTE B2/Edge1/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.05 W/kg

LTE B2/Edge1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.48 V/m; Power Drift = 0.00 dB

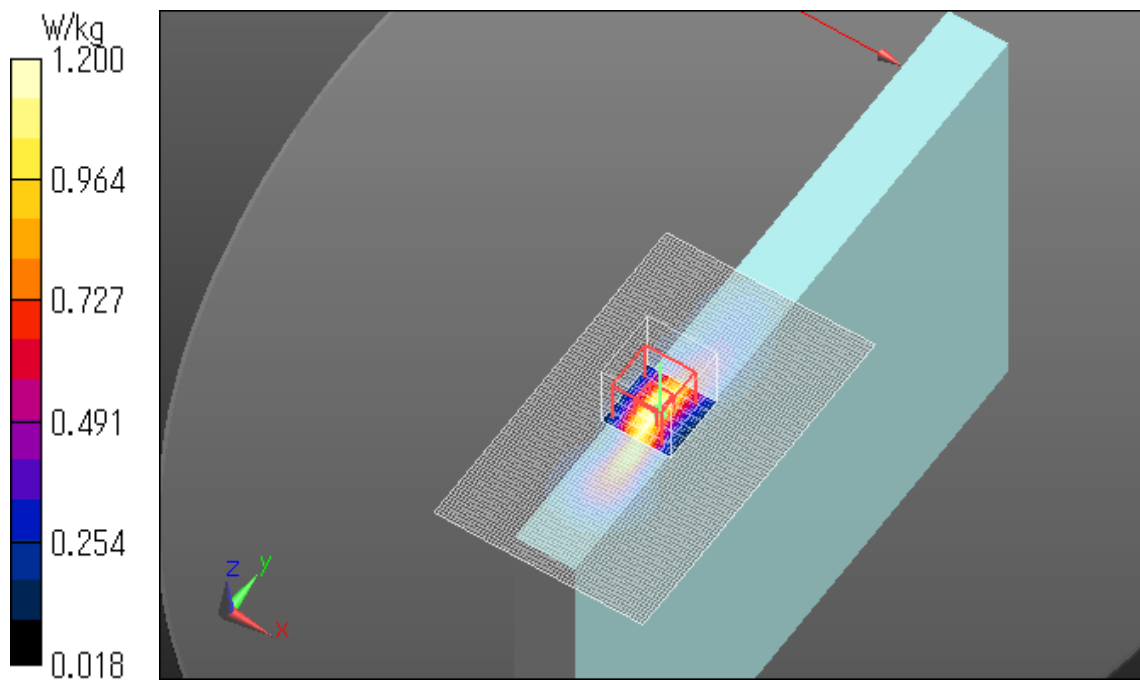
Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.830 W/kg; SAR(10 g) = 0.401 W/kg

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

Date: 2018/04/13

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



LTE Band5 Edge1 0mm QPSK 844MHz Allocation1 Start0 power reduction_Repeat

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 844$ MHz; $\sigma = 0.98$ S/m; $\epsilon_r = 55.622$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

LTE B5/Edge1/Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.31 W/kg

LTE B5/Edge1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 35.15 V/m; Power Drift = 1.17 dB

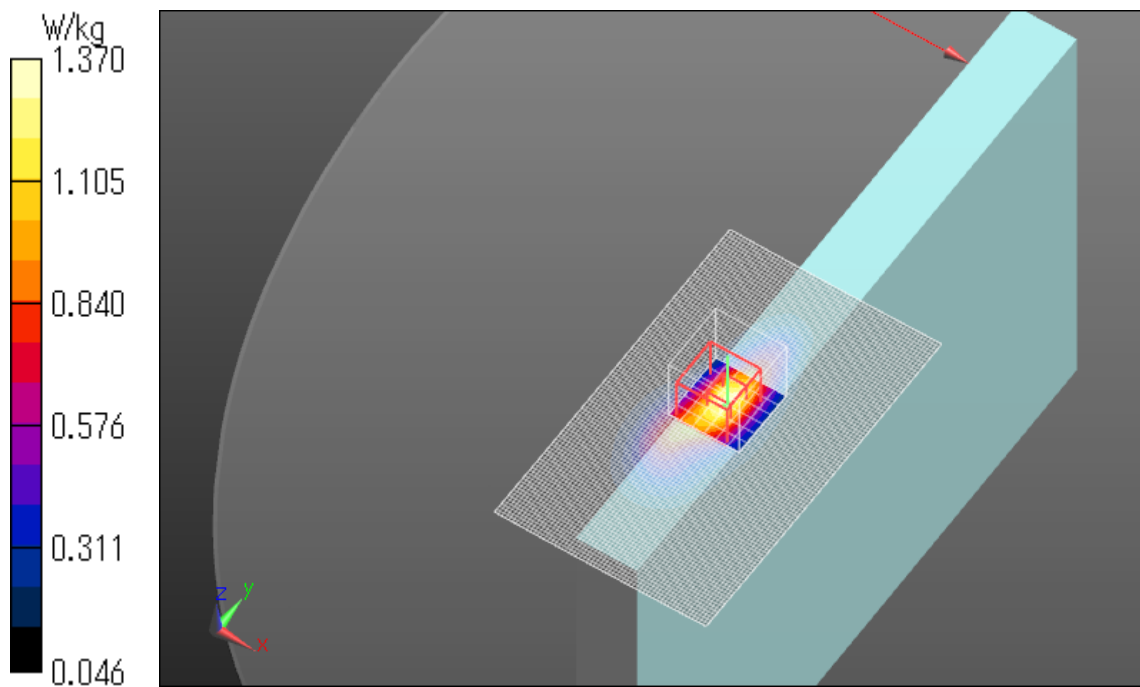
Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.976 W/kg; SAR(10 g) = 0.542 W/kg

Maximum value of SAR (measured) = 0.07 W/kg

Date: 2018/04/23

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



LTE Band12 Edge1 0mm QPSK 711MHz Allocation1 Start24 power reduction Repeat

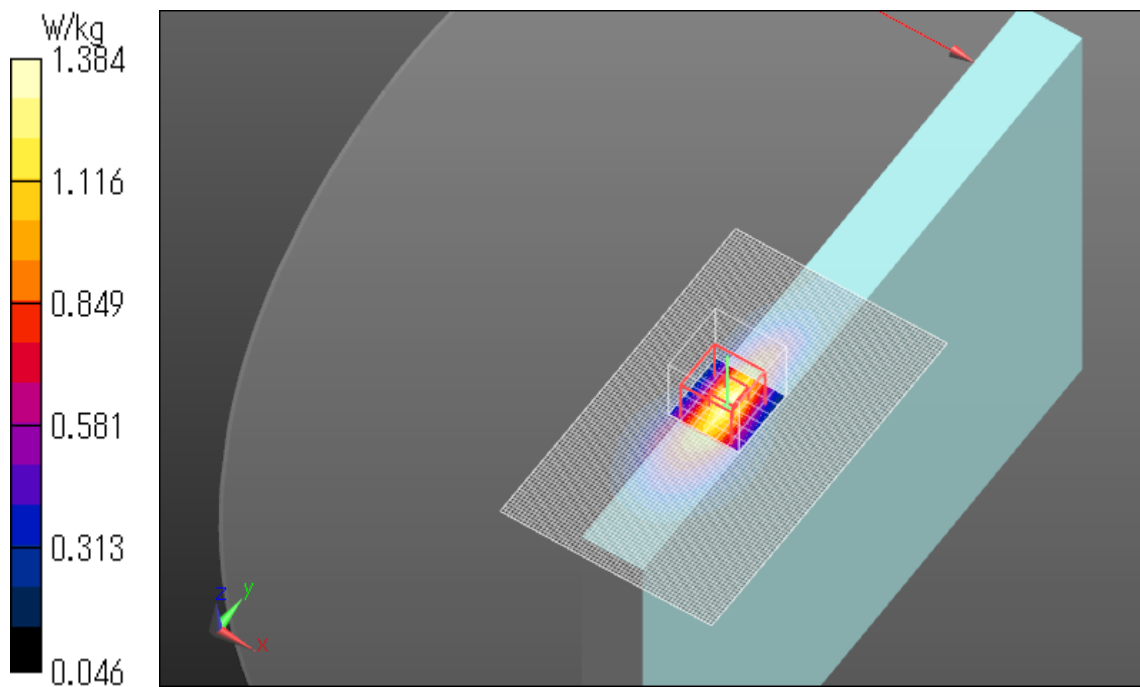
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12,
E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 711 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 711$ MHz; $\sigma = 0.942$ S/m; $\epsilon_r = 55.906$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3917; ConvF(10.37, 10.37, 10.37); Calibrated: 2017/05/16;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1369; Calibrated: 2017/05/12
Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

LTE B12/Edge1/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.22 W/kg

LTE B12/Edge1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.99 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.87 W/kg
SAR(1 g) = 0.938 W/kg; SAR(10 g) = 0.510 W/kg
Maximum value of SAR (measured) = 1.38 W/kg

Date: 2018/04/20

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



LTE Band13 Edge1 0mm QPSK 782MHz Allocation50 Start0 power reduction Repeat

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 13,
E-UTRA/FDD (777.0 - 787.0 MHz); Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 782$ MHz; $\sigma = 0.969$ S/m; $\epsilon_r = 55.187$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3825; ConvF(9.91, 9.91, 9.91); Calibrated: 2017/12/11;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn509; Calibrated: 2017/07/11
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)

LTE B13/Edge1/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

LTE B13/Edge1/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.79 V/m; Power Drift = -0.12 dB

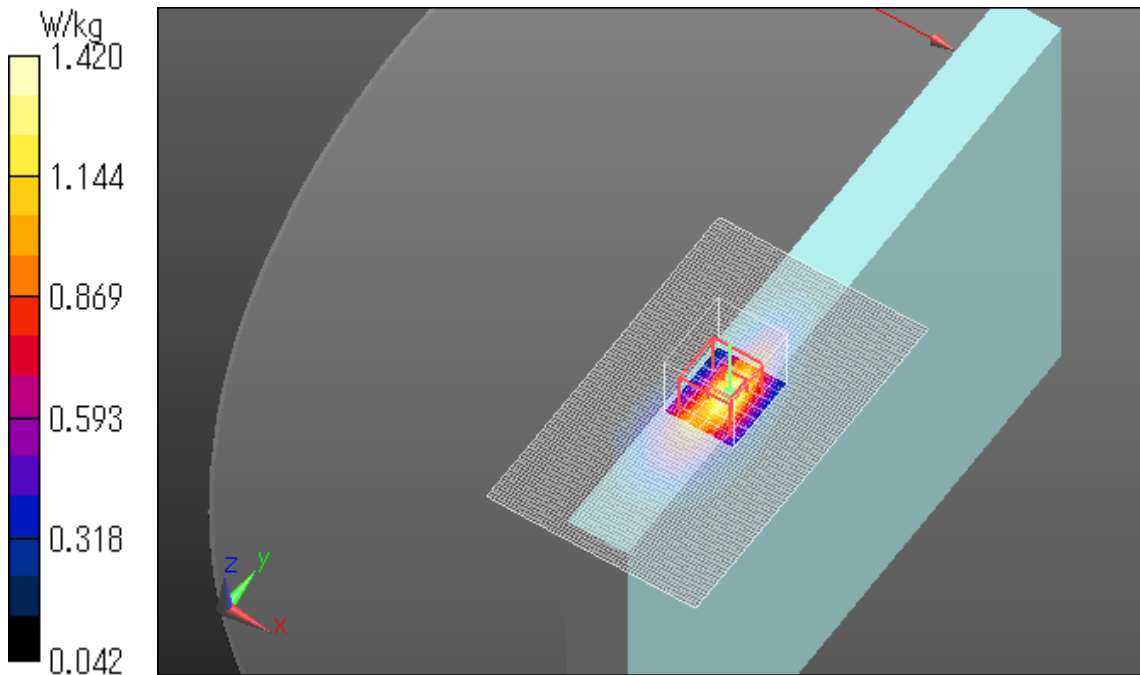
Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.985 W/kg; SAR(10 g) = 0.550 W/kg

Maximum value of SAR (measured) = 1.42 W/kg

Date: 2018/04/26

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



LTE Band25 Edge1 0mm QPSK 1905MHz Allocation1 Start49 power reduction Repeat

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 25, E-UTRA/FDD (1850.0 - 1915.0 MHz); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1905$ MHz; $\sigma = 1.532$ S/m; $\epsilon_r = 51.708$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3825; ConvF(8, 8, 8); Calibrated: 2017/12/11;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn509; Calibrated: 2017/07/11

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)

LTE B25/Edge1/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

LTE B25/Edge1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.07 V/m; Power Drift = 0.01 dB

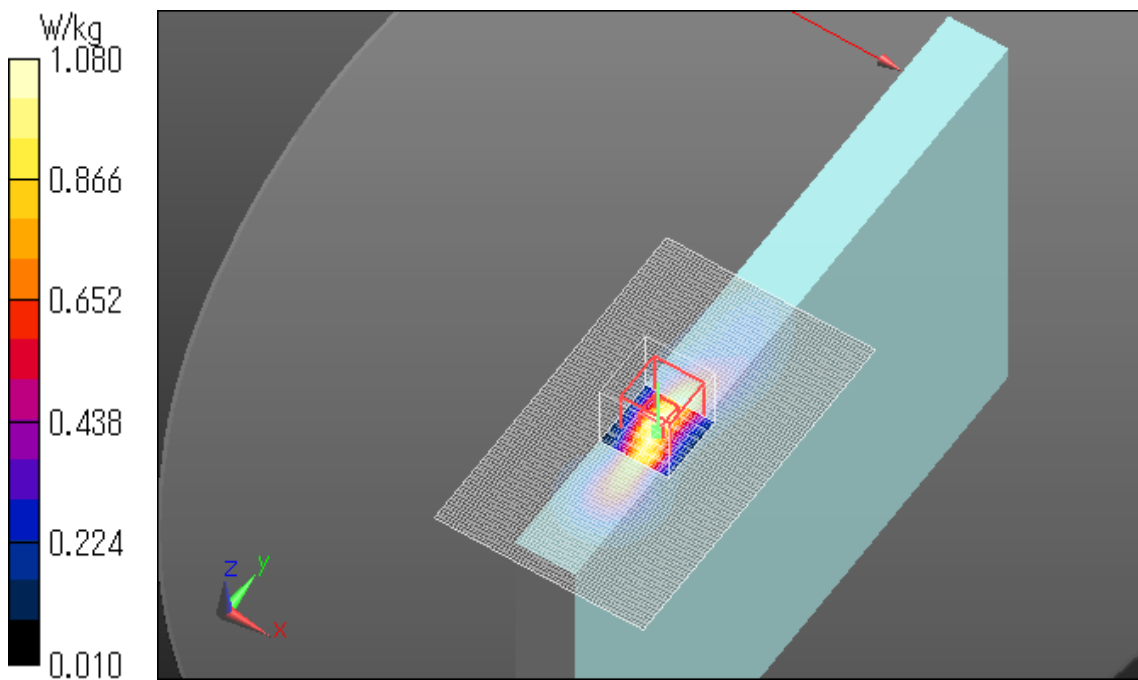
Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.774 W/kg; SAR(10 g) = 0.374 W/kg

Maximum value of SAR (measured) = 1.08 W/kg

Date: 2018/04/18

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



LTE Band26 Edge1 0mm QPSK 821.5MHz Allocation1 Start0 power reduction Repeat

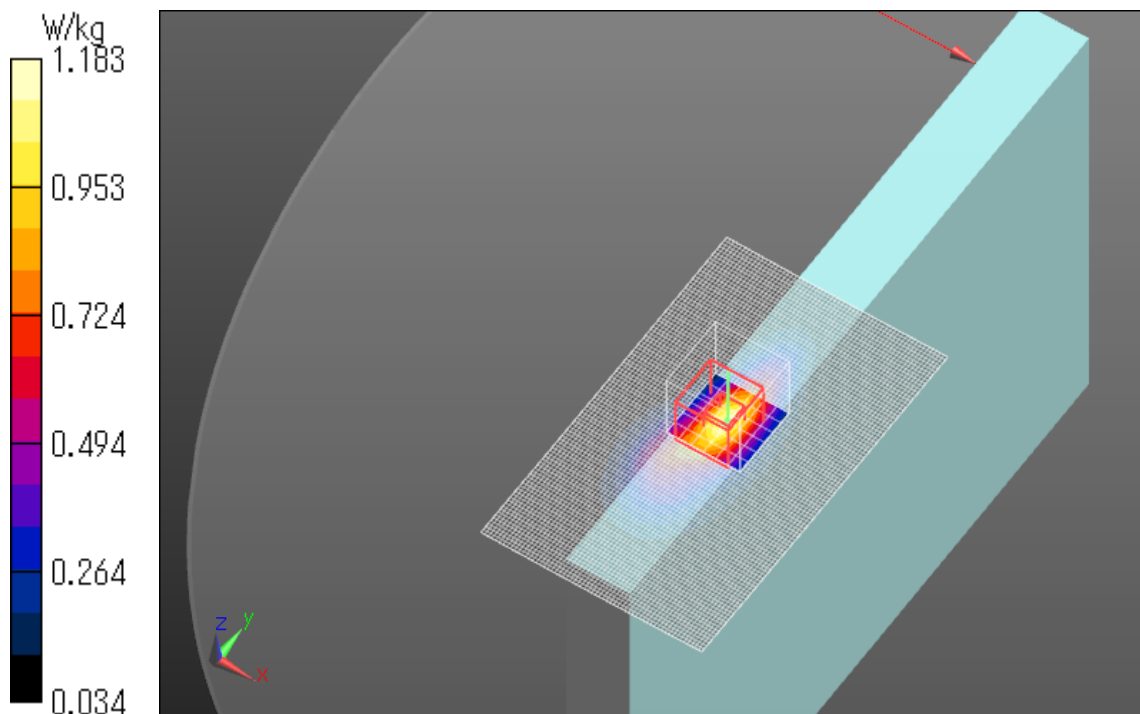
Communication System: UID 0, Generic LTE (0); Communication System Band: Band 26,
E-UTRA/FDD (814.0 - 849.0 MHz); Frequency: 821.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 821.5$ MHz; $\sigma = 0.948$ S/m; $\epsilon_r = 55.824$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration
Probe: EX3DV4 - SN3917; ConvF(9.93, 9.93, 9.93); Calibrated: 2017/05/16;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1369; Calibrated: 2017/05/12
Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203
Measurement SW: DASYS2, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

LTE B26/Edge1/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.14 W/kg

LTE B26/Edge1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 34.58 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.54 W/kg
SAR(1 g) = 0.820 W/kg; SAR(10 g) = 0.455 W/kg
Maximum value of SAR (measured) = 1.18 W/kg

Date: 2018/04/26

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



LTE Band41 Edge1 0mm QPSK 2680MHz Allocation1 Start49 power reduction Repeat

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2680 MHz; Duty Cycle: 1:1.59956

Medium parameters used: $f = 2680$ MHz; $\sigma = 2.28$ S/m; $\epsilon_r = 52.111$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration

Probe: EX3DV4 - SN3917; ConvF(7.41, 7.41, 7.41); Calibrated: 2017/05/16;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1369; Calibrated: 2017/05/12

Phantom: ELI v5.0 (20deg probe tilt); Type: QDOVA001BB; Serial: TP:1203

Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

LTE B41/Edge1/Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.42 W/kg

LTE B41/Edge1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.36 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.96 W/kg
SAR(1 g) = 0.827 W/kg; SAR(10 g) = 0.334 W/kg
Maximum value of SAR (measured) = 1.38 W/kg

LTE B41/Edge1/Zoom Scan 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.36 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.72 W/kg
SAR(1 g) = 0.711 W/kg; SAR(10 g) = 0.274 W/kg
Maximum value of SAR (measured) = 1.20 W/kg

Date: 2018/04/19

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

