

Appendix B Test Plots

Appendix B.1 Test Plots for WCDMA2

Date/Time: 2023-10-06 03:43:40

Test Laboratory : SGS Korea (Gunpo Laboratory)
 File Name: [WCDMA2_Front_CH9400.da53-0](#)

DUT: TFGMEIBBCDB1; Type: Telematics device; Serial: EBR42280006K_#32

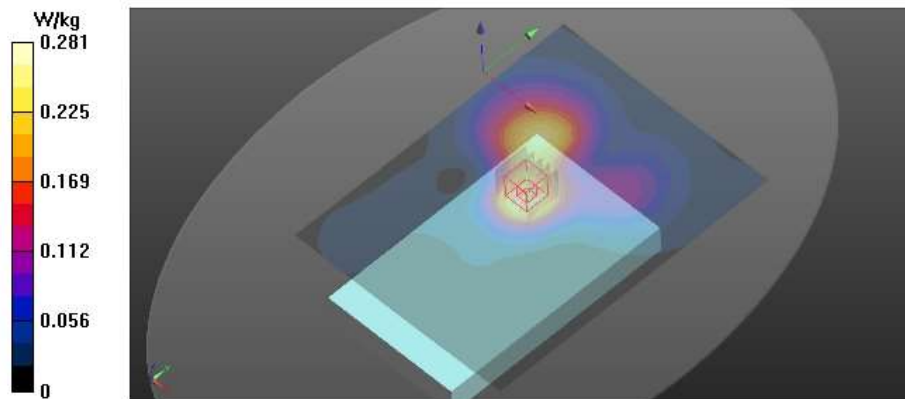
Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.385 \text{ S/m}$; $\epsilon_r = 40.817$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.41, 7.41, 7.41) @ 1880 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA2_Front_CH9400/Area Scan (141x181x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.281 W/kg

Body/WCDMA2_Front_CH9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 6.297 V/m; Power Drift = 0.07 dB
 Peak SAR (extrapolated) = 0.315 W/kg
SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.137 W/kg
 Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
 Ratio of SAR at M2 to SAR at M1 = 65.2%
 Maximum value of SAR (measured) = 0.276 W/kg



Appendix B.2 Test Plots for WCDMA2 External

Date/Time: 2023-10-06 09:18:04

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [WCDMA2 External CH9400.da53-0](#)

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.385$ S/m; $\epsilon_r = 40.817$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.41, 7.41, 7.41) @ 1880 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA2 External_CH9400/Area Scan (211x261x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.00919 W/kg

Body/WCDMA2 External_CH9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.8010 V/m; Power Drift = 0.09 dB

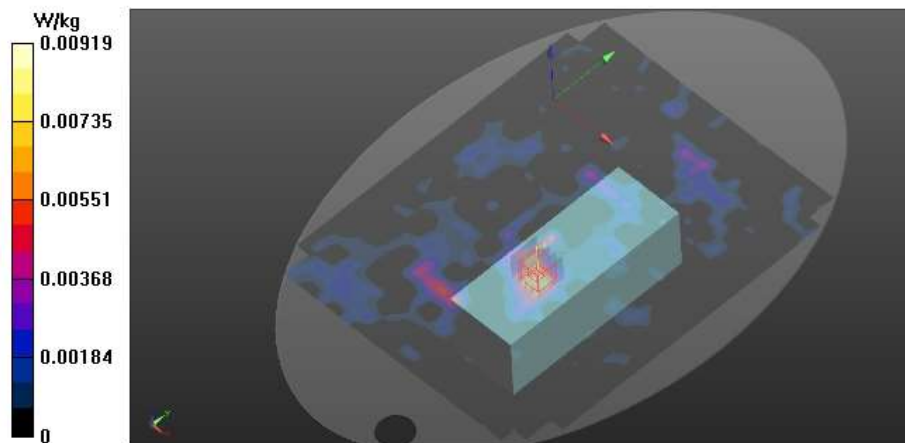
Peak SAR (extrapolated) = 0.0140 W/kg

SAR(1 g) = 0.00644 W/kg; SAR(10 g) = 0.00359 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 39.7%

Maximum value of SAR (measured) = 0.0100 W/kg



Appendix B.3 Test Plots for WCDMA4

Date/Time: 2023-10-07 08:31:49

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [WCDMA4_Front_CH1413.da53-0](#)

DUT: TFGMEIBBCDB1; Type: Telematics device; Serial: EBR42280006K_#32

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1733$ MHz; $\sigma = 1.37$ S/m; $\epsilon_r = 39.613$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.6, 7.6, 7.6) @ 1732.6 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA4_Front_CH1413/Area Scan (141x181x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.628 W/kg

Body/WCDMA4_Front_CH1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.34 V/m; Power Drift = -0.03 dB

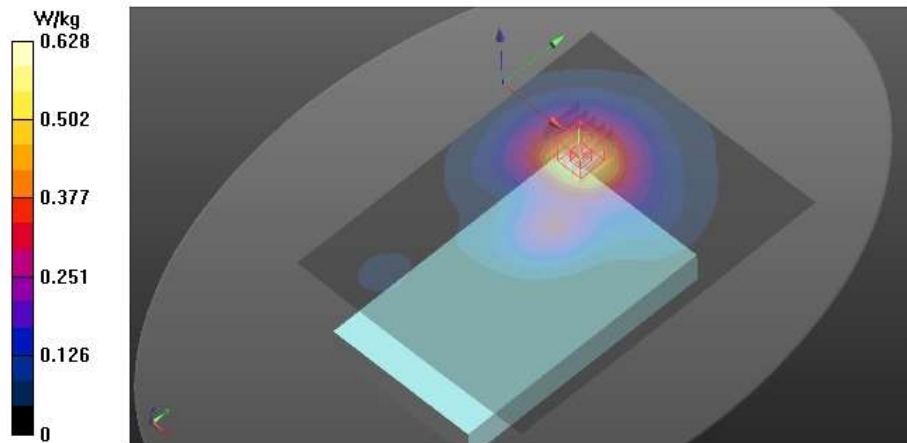
Peak SAR (extrapolated) = 0.707 W/kg

SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.325 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 67.8%

Maximum value of SAR (measured) = 0.631 W/kg



Appendix B.4 Test Plots for WCDMA4 External

Date/Time: 2023-10-07 04:31:34

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [WCDMA4 External CH1413.da53:0](#)

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1733$ MHz; $\sigma = 1.37$ S/m; $\epsilon_r = 39.613$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.6, 7.6, 7.6) @ 1732.6 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA4 External_CH1413/Area Scan (211x261x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0283 W/kg

Body/WCDMA4 External_CH1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.752 V/m; Power Drift = 0.09 dB

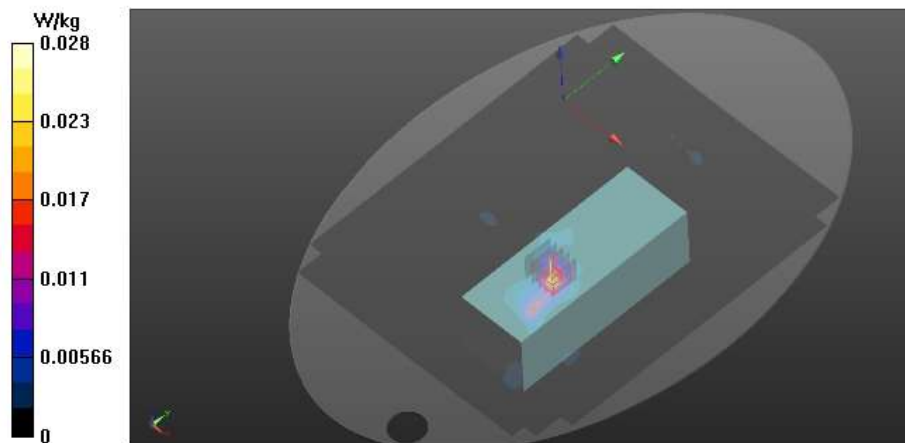
Peak SAR (extrapolated) = 0.0340 W/kg

SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.00894 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 0.0281 W/kg



Appendix B.5 Test Plots for WCDMA5

Date/Time: 2023-10-10 11:05:43

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [WCDMA5_Front_CH4183.da53-0](#)

DUT: TFGMEIBBCDB1; Type: Telematics device; Serial: EBR42280006K_#32

Communication System: UID 0, WCDMA (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.936$ S/m; $\epsilon_r = 40.432$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(8.79, 8.79, 8.79) @ 836.6 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA5_Front_CH4183/Area Scan (141x181x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.296 W/kg

Body/WCDMA5_Front_CH4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.60 V/m; Power Drift = 0.02 dB

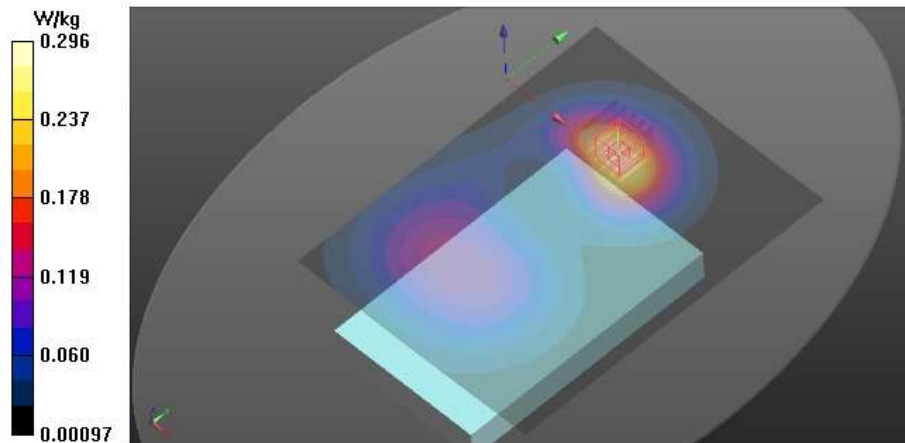
Peak SAR (extrapolated) = 0.330 W/kg

SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.167 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 71.7%

Maximum value of SAR (measured) = 0.293 W/kg



Appendix B.6 Test Plots for WCDMA5 External

Date/Time: 2023-10-10 07:06:33

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [WCDMA5 External CH4183.da53-0](#)

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, WCDMA (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.936$ S/m; $\epsilon_r = 40.432$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(8.79, 8.79, 8.79) @ 836.6 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA5 External_CH4183/Area Scan (211x261x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0298 W/kg

Body/WCDMA5 External_CH4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.419 V/m; Power Drift = 0.05 dB

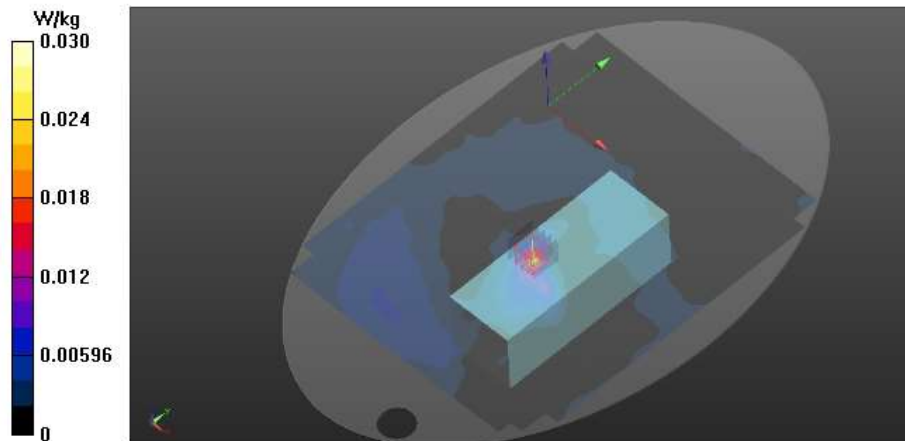
Peak SAR (extrapolated) = 0.0390 W/kg

SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00627 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 31.6%

Maximum value of SAR (measured) = 0.0283 W/kg



Appendix B.1 Test Plots for LTE2

Date/Time: 2023-10-05 07:20:38

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE2 Bottom_20MHz_1@0_QPSK_CH18700.da53-0](#)

DUT: TFGMEIBBCDB1; Type: Telematics device; Serial: EBR42280006K_#32

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

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.437$ S/m; $\epsilon_r = 40.996$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.41, 7.41, 7.41) @ 1860 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE2 Bottom_20MHz_1@0_QPSK_CH18700/Area Scan (121x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.378 W/kg

Body/LTE2 Bottom_20MHz_1@0_QPSK_CH18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.033 V/m; Power Drift = 0.01 dB

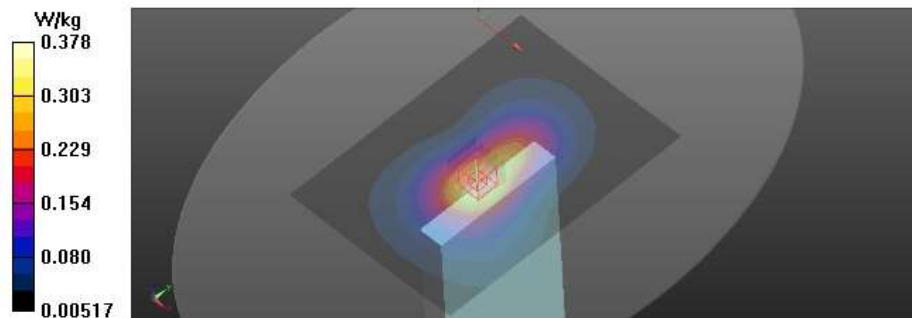
Peak SAR (extrapolated) = 0.439 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.189 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 64.7%

Maximum value of SAR (measured) = 0.381 W/kg



Appendix B.2 Test Plots for LTE2 External

Date/Time: 2023-10-05 16:47:36

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE2 External 20MHz 50@13 QPSK CH18700.da53:0](#)

DUT: TFGMEIBBCDB; Type: Telematic device; Serial: 004400152020000_#2(External)

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

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.437$ S/m; $\epsilon_r = 40.996$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.41, 7.41, 7.41) @ 1860 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE2 External_20MHz_50@13_QPSK_CH18700/Area Scan (211x261x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0132 W/kg

Body/LTE2 External_20MHz_50@13_QPSK_CH18700/Zoom Scan (9x7x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.989 V/m; Power Drift = 0.15 dB

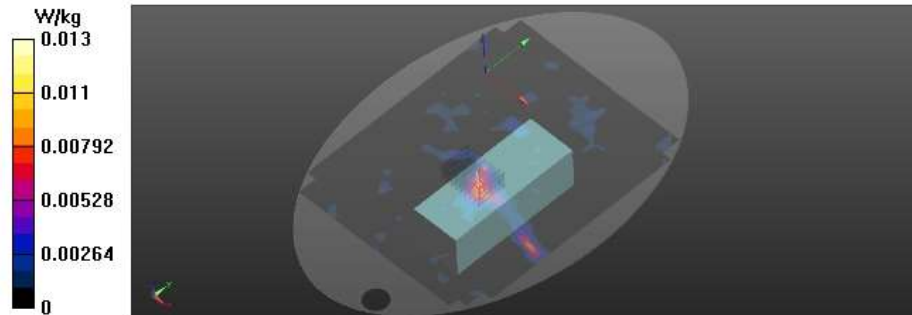
Peak SAR (extrapolated) = 0.0140 W/kg

SAR(1 g) = 0.00772 W/kg; SAR(10 g) = 0.00407 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 0.0114 W/kg



Appendix B.3 Test Plots for LTE5

Date/Time: 2023-10-03 14:53:35

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE5 Front 10MHz 1@25 QPSK CH20450_da53:0](#)

DUT: TFGMEIBBCDB1; Type: Telematics device; Serial: EBR42280006K_#32

Communication System: UID 0, LTE FDD (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829$ MHz; $\sigma = 0.904$ S/m; $\epsilon_r = 41.472$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(8.79, 8.79, 8.79) @ 829 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE5 Front_10MHz_1@25_QPSK_CH20450/Area Scan (141x181x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.279 W/kg

Body/LTE5 Front_10MHz_1@25_QPSK_CH20450/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.948 V/m; Power Drift = -0.07 dB

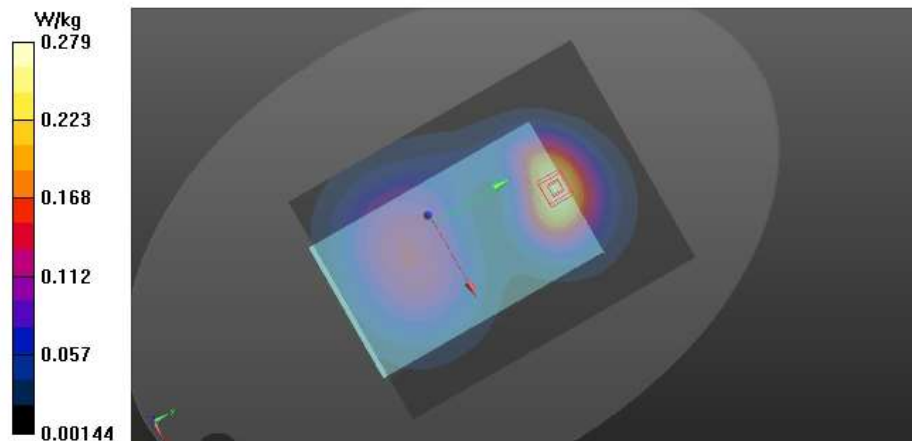
Peak SAR (extrapolated) = 0.312 W/kg

SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.155 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 70.3%

Maximum value of SAR (measured) = 0.278 W/kg



Appendix B.4 Test Plots for LTE5 External

Date/Time: 2023-10-03 15:47:33

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE5 External_10MHz_1@25_QPSK_CH20450.da53-0](#)

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, LTE FDD (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829$ MHz; $\sigma = 0.904$ S/m; $\epsilon_r = 41.472$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(8.79, 8.79, 8.79) @ 829 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Su1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE5 External_10MHz_1@25_QPSK_CH20450/Area Scan (211x261x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.00696 W/kg

Body/LTE5 External_10MHz_1@25_QPSK_CH20450/Zoom Scan (6x5x7)/Cube 0: Measurement

grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 2.168 V/m; Power Drift = 0.11 dB

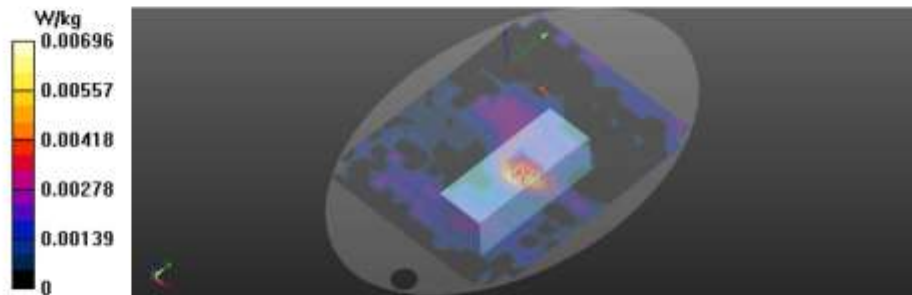
Peak SAR (extrapolated) = 0.00826 W/kg

SAR(1 g) = 0.0056 W/kg; SAR(10 g) = 0.0039 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 68.7%

Maximum value of SAR (measured) = 0.00729 W/kg



Appendix B.5 Test Plots for LTE7

Date/Time: 2023-10-06 04:07:38

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: LTE7_Bottom_20MHz_1@99_QPSK_CH21100.da53:0

DUT: TFGMEIBBCD1; Type: Telematics device; Serial: EBR42280006K_#41

Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.974$ S/m; $\epsilon_r = 39.856$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(7.11, 7.11, 7.11) @ 2535 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE7_Bottom_20MHz_1@99_QPSK_CH21100/Area Scan (121x201x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.740 W/kg

Body/LTE7_Bottom_20MHz_1@99_QPSK_CH21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.57 V/m; Power Drift = -0.02 dB

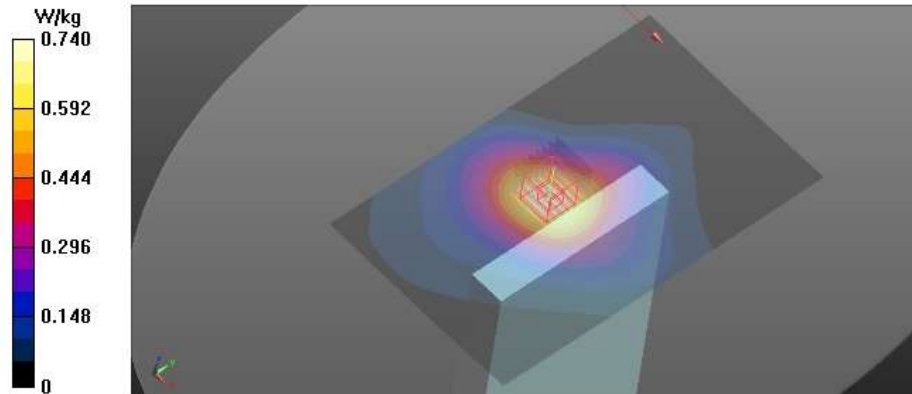
Peak SAR (extrapolated) = 0.913 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.282 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 0.749 W/kg



Appendix B.6 Test Plots for LTE7 External

Date/Time: 2023-10-06 17:40:43

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE7 External 20MHz 1@99 QPSK CH21100.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematic device; Serial: EBR42280006K_#41

Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.974$ S/m; $\epsilon_r = 39.856$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(7.11, 7.11, 7.11) @ 2535 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE7 External_20MHz_1@99_QPSK_CH21100/Area Scan (261x331x1): Interpolated grid:

$dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0409 W/kg

Body/LTE7 External_20MHz_1@99_QPSK_CH21100/Zoom Scan (8x7x7)/Cube 0: Measurement grid:

$dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.981 V/m; Power Drift = -0.07 dB

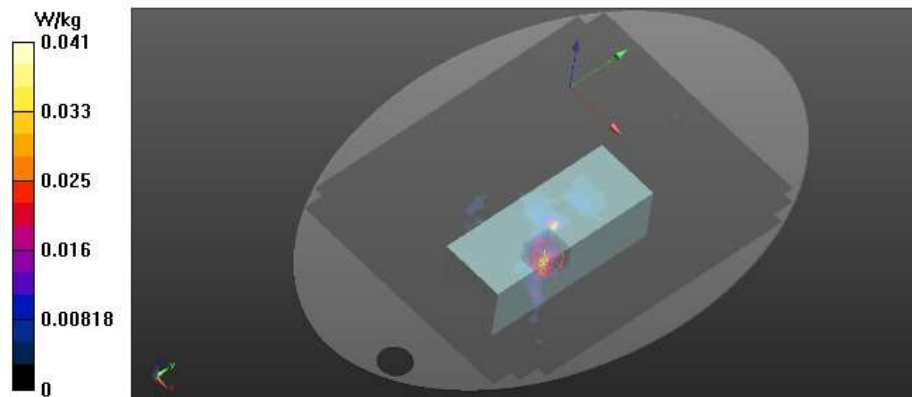
Peak SAR (extrapolated) = 0.0640 W/kg

SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.0066 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 34.9%

Maximum value of SAR (measured) = 0.0441 W/kg



Appendix B.7 Test Plots for LTE12

Date/Time: 2023-09-30 10:28:25

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE12 Front 10MHz 1@25 QPSK CH23060.da53-0](#)

DUT: TFGMEIBBCDB1; Type: Telematics device; Serial: EBR42280006K_#32

Communication System: UID 0, LTE FDD (0); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 704$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 40.632$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 704 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE12 Front_10MHz_1@25_QPSK_CH23060/Area Scan (141x181x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.145 W/kg

Body/LTE12 Front_10MHz_1@25_QPSK_CH23060/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.92 V/m; Power Drift = 0.09 dB

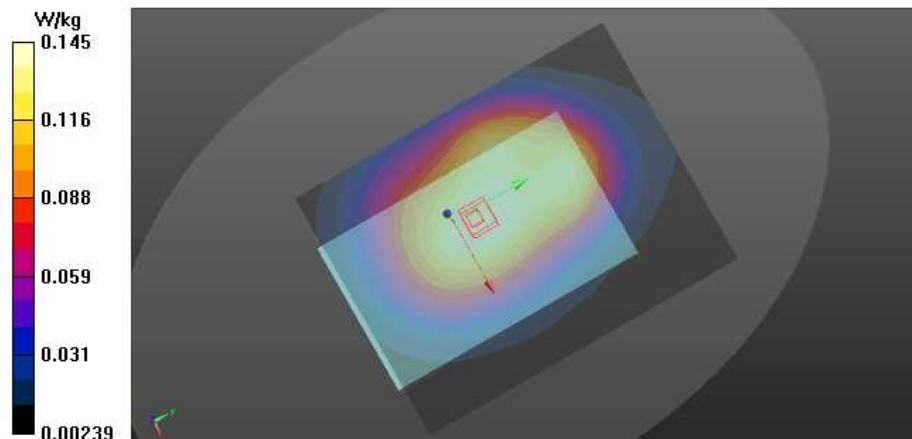
Peak SAR (extrapolated) = 0.160 W/kg

SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.099 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 77.1%

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



Appendix B.8 Test Plots for LTE12 External

Date/Time: 2023-10-04 09:52:52

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE12 External 10MHz 1@25 QPSK CH23060.da53:0](#)

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, LTE FDD (0); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 704$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 41.621$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 704 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE12 External_10MHz_1@25_QPSK_CH23060/Area Scan (211x261x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.00508 W/kg

Body/LTE12 External_10MHz_1@25_QPSK_CH23060/Zoom Scan (8x6x7)/Cube 0: Measurement grid:

$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 2.447 V/m; Power Drift = -0.00 dB

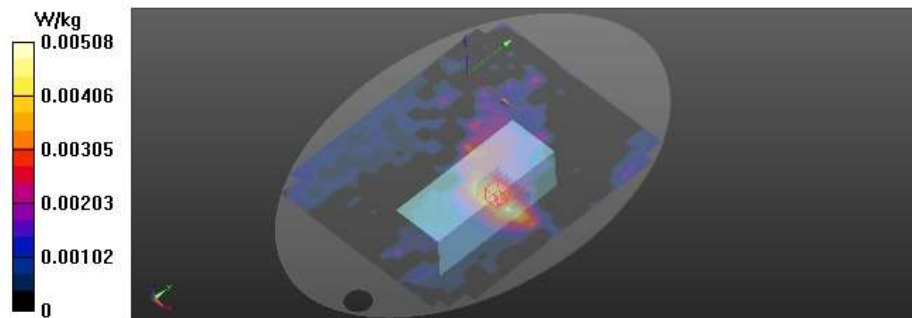
Peak SAR (extrapolated) = 0.00537 W/kg

SAR(1 g) = 0.00367 W/kg; SAR(10 g) = 0.00258 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 71.3%

Maximum value of SAR (measured) = 0.00468 W/kg



Appendix B.9 Test Plots for LTE13

Date/Time: 2023-10-01 14:04:38

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE13 Front 10MHz 1@25 QPSK CH23230.da53:0](#)

DUT: TFGMEIBBCDB1; Type: Telematics device; Serial: EBR42280006K_#32

Communication System: UID 0, LTE FDD (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.927 \text{ S/m}$; $\epsilon_r = 41.228$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 782 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE13 Front_10MHz_1@25_QPSK_CH23230/Area Scan (141x181x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.247 W/kg

Body/LTE13 Front_10MHz_1@25_QPSK_CH23230/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.33 V/m ; Power Drift = -0.17 dB

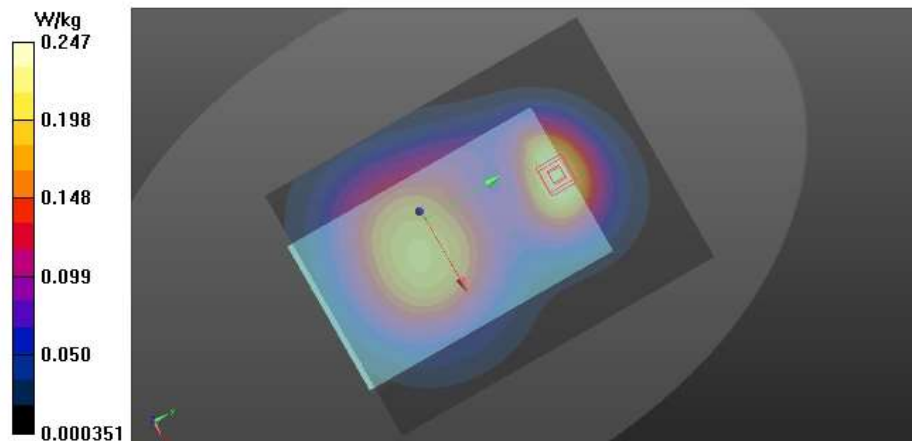
Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.195 W/kg ; SAR(10 g) = 0.137 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 68.9%

Maximum value of SAR (measured) = 0.252 W/kg



Appendix B.10 Test Plots for LTE13 External

Date/Time: 2023-10-04 13:11:30

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE13 External 10MHz 1@25_QPSK_CH23230.da53:0](#)

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, LTE FDD (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.926 \text{ S/m}$; $\epsilon_r = 41.335$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 782 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE13 External_10MHz_1@25_QPSK_CH23230/Area Scan (211x261x1): Interpolated grid:

$dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.00778 W/kg

Body/LTE13 External_10MHz_1@25_QPSK_CH23230/Zoom Scan (8x6x7)/Cube 0: Measurement grid:

$dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.712 V/m; Power Drift = -0.09 dB

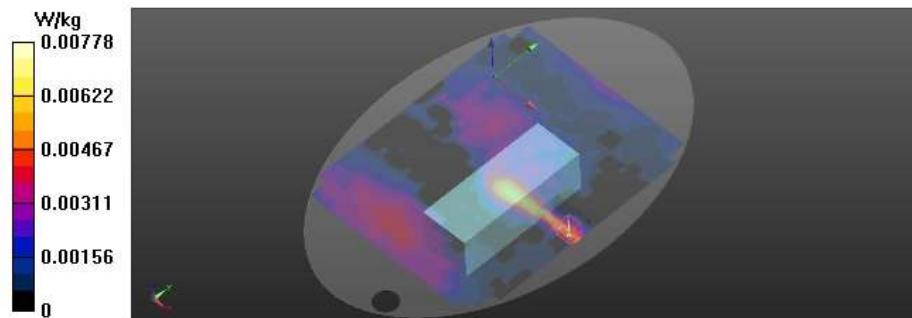
Peak SAR (extrapolated) = 0.00819 W/kg

SAR(1 g) = 0.00481 W/kg; SAR(10 g) = 0.00279 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 63.2%

Maximum value of SAR (measured) = 0.00705 W/kg



Appendix B.11 Test Plots for LTE14

Date/Time: 2023-10-02 09:34:41

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE14 Front 10MHz 1@25 QPSK CH23330.da53:0](#)

DUT: TFGMEIBBCDB; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, LTE FDD (0); Frequency: 793 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 793$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 41.69$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 793 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE14 Front_10MHz_1@25_QPSK_CH23330/Area Scan (141x181x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.247 W/kg

Body/LTE14 Front_10MHz_1@25_QPSK_CH23330/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.379 V/m; Power Drift = -0.12 dB

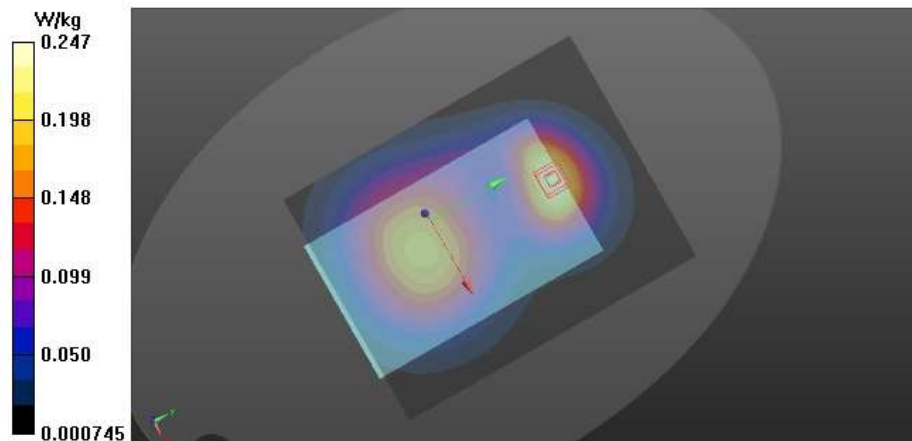
Peak SAR (extrapolated) = 0.280 W/kg

SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.135 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 69.1%

Maximum value of SAR (measured) = 0.250 W/kg



Appendix B.12 Test Plots for LTE14 External

Date/Time: 2023-10-04 16:44:33

Test Laboratory : SGS Korea (Gunpo Laboratory)
 File Name: [LTE14 External_10MHz_1@25_QPSK_CH23330.da53-0](#)

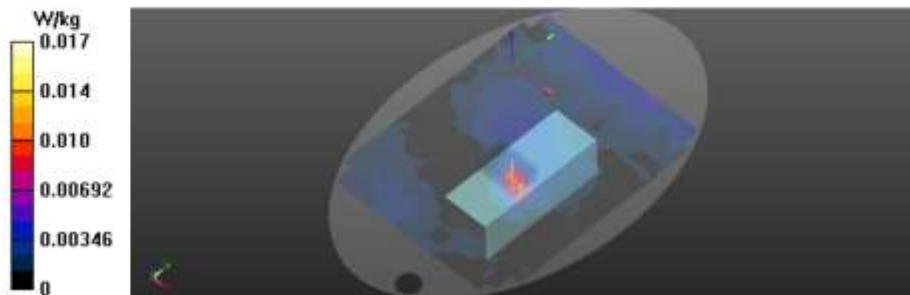
DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, LTE FDD (0); Frequency: 793 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 793 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 41.267$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY52 Configuration:
 - Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 793 MHz; Calibrated: 2023-05-23
 - Sensor-Surface: 1.4mm (Mechanical Surface Detection)
 - Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
 - Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
 - DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE14 External_10MHz_1@25_QPSK_CH23330/Area Scan (211x261x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.0173 W/kg

Body/LTE14 External_10MHz_1@25_QPSK_CH23330/Zoom Scan (9x7x7)/Cube 0: Measurement
 grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 5.303 V/m; Power Drift = -0.18 dB
 Peak SAR (extrapolated) = 0.0240 W/kg
SAR(1 g) = 0.010 W/kg; SAR(10 g) = 0.00656 W/kg
 Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
 Ratio of SAR at M2 to SAR at M1 = 40.6%
 Maximum value of SAR (measured) = 0.0190 W/kg



Appendix B.13 Test Plots for LTE66

Date/Time: 2023-10-20 11:59:22

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE66 Bottom_20MHz_1@0_QPSK_CH132322.da53.0](#)

DUT: TFGMEIBBCDB1; Type: Telematics device; Serial: EBR42280006K_#32

Communication System: UID 0, LTE FDD (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.377$ S/m; $\epsilon_r = 38.584$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.6, 7.6, 7.6) @ 1745 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Su1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE66 Bottom_20MHz_1@0_QPSK_CH132322/Area Scan (101x131x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.665 W/kg

Body/LTE66 Bottom_20MHz_1@0_QPSK_CH132322/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 19.79 V/m; Power Drift = 0.04 dB

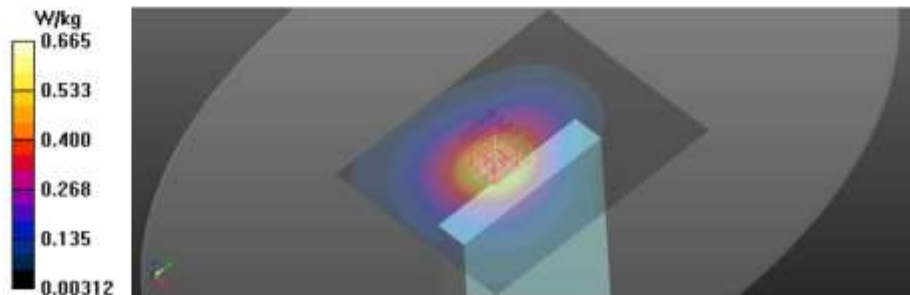
Peak SAR (extrapolated) = 0.750 W/kg

SAR(1 g) = 0.518 W/kg; SAR(10 g) = 0.351 W/kg

Smallest distance from peaks to all points 3 dB below; Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 68.8%

Maximum value of SAR (measured) = 0.673 W/kg



Appendix B.14 Test Plots for LTE66 External

Date/Time: 2023-10-13 15:13:55

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: LTE66 External_20MHz_1@0_QPSK_CH132322.da53-0

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, LTE FDD (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 41.255$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.6, 7.6, 7.6) @ 1745 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE66 External_20MHz_1@0_QPSK_CH132322/Area Scan (141x181x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0110 W/kg

Body/LTE66 External_20MHz_1@0_QPSK_CH132322/Zoom Scan (9x7x7)/Cube 0: Measurement

grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 2.822 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.0130 W/kg

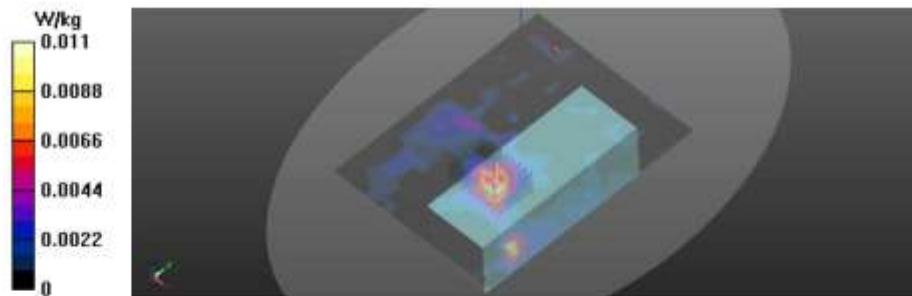
SAR(1 g) = 0.0071 W/kg; SAR(10 g) = 0.00417 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 50.9%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0106 W/kg



Appendix B.15 Test Plots for 5GNRn7

Date/Time: 2023-10-14 06:06:12

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn7_Bottom_15KHz_20MHz_1@1_DFT_QPSK_CH507000.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics device; Serial: EBR42280006K_#41

Communication System: UID 0, 5G NR FDD (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.962$ S/m; $\epsilon_r = 37.418$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(7.11, 7.11, 7.11) @ 2535 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn7_Bottom_15KHz_20MHz_1@1_DFT_QPSK_CH507000/Area Scan (121x201x1):

Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.692 W/kg

Body/5GNRn7_Bottom_15KHz_20MHz_1@1_DFT_QPSK_CH507000/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 19.57 V/m; Power Drift = 0.13 dB

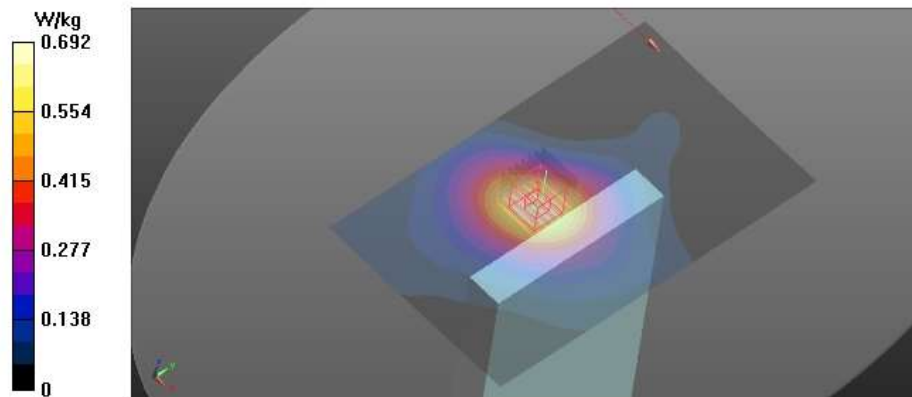
Peak SAR (extrapolated) = 0.871 W/kg

SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.263 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 49.8%

Maximum value of SAR (measured) = 0.708 W/kg



Appendix B.16 Test Plots for 5GNRn7 External

Date/Time: 2023-10-16 10:34:10

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn7_External_15KHz_20MHz_1@1_DFT_QPSK_CH507000.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematic device; Serial: EBR42280006K_#41

Communication System: UID 0, 5G NR FDD (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.922$ S/m; $\epsilon_r = 40.658$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(7.11, 7.11, 7.11) @ 2535 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn7_External_15KHz_20MHz_1@1_DFT_QPSK_CH507000/Area Scan (261x331x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0680 W/kg

Body/5GNRn7_External_15KHz_20MHz_1@1_DFT_QPSK_CH507000/Zoom Scan (9x10x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.324 V/m; Power Drift = -0.13 dB

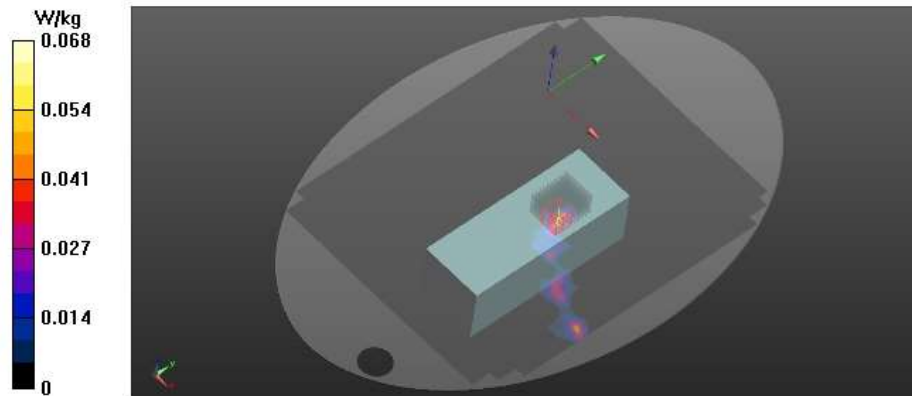
Peak SAR (extrapolated) = 0.0740 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.00806 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 27.2%

Maximum value of SAR (measured) = 0.0501 W/kg



Appendix B.17 Test Plots for 5GNRn12

Date/Time: 2023-10-17 11:03:48

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn12 Front_15KHz_15MHz_36@18_DFT_BPSK_CH141500.da53-0](#)

DUT: TFGMEIBBCDB; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, 5G NR FDD (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.86$ S/m; $\epsilon_r = 43.122$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 707.5 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn12 Front_15KHz_15MHz_36@18_DFT_BPSK_CH141500/Area Scan (141x181x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.173 W/kg

Body/5GNRn12 Front_15KHz_15MHz_36@18_DFT_BPSK_CH141500/Zoom Scan (6x7x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.84 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.198 W/kg

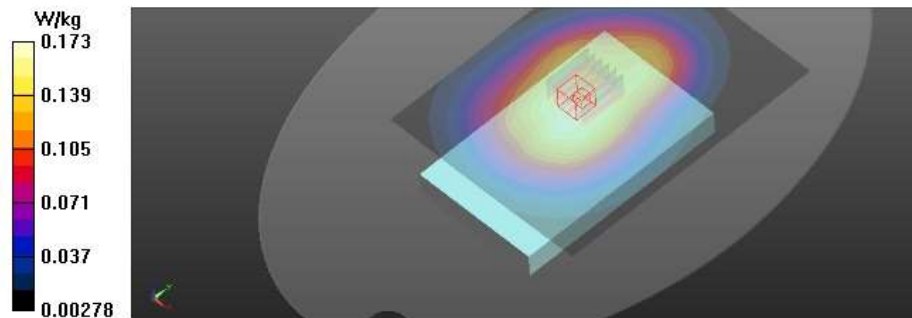
SAR(1 g) = 0.144 W/kg; SAR(10 g) = 0.113 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 72.1%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.177 W/kg



Appendix B.18 Test Plots for 5GNRn12 External

Date/Time: 2023-10-17 02:02:25

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn12 External_15KHz_15MHz_1@1_DFT_BPSK_CH141500.da53-0](#)

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, 5G NR FDD (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 707.5 \text{ MHz}$; $\sigma = 0.86 \text{ S/m}$; $\epsilon_r = 43.122$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 707.5 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn12 External_15KHz_15MHz_1@1_DFT_BPSK_CH141500/Area Scan (211x261x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0181 W/kg

Body/5GNRn12 External_15KHz_15MHz_1@1_DFT_BPSK_CH141500/Zoom Scan (6x5x7)/Cube

0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.647 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.0240 W/kg

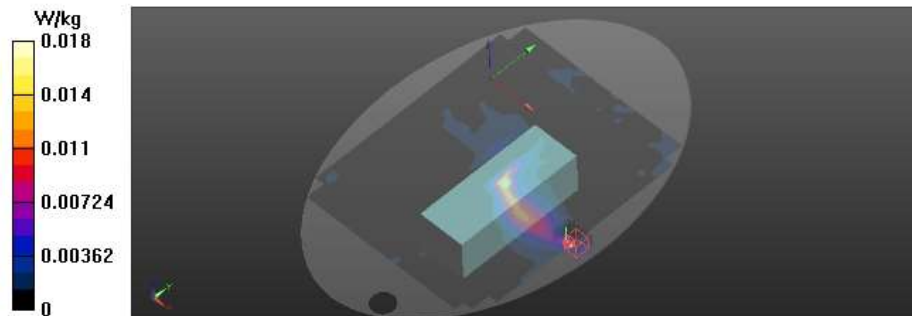
SAR(1 g) = 0.00605 W/kg; SAR(10 g) = 0.00289 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 21%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0162 W/kg



Appendix B.19 Test Plots for 5GNRn13

Date/Time: 2023-10-19 06:50:07

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn13 Front 15KHz 10MHz 25@12 DFT BPSK CH156400.da53-0](#)

Input Power : 100mW

DUT: TFGMEIBBCDB1; Type: Telematics device; Serial: EBR42280006K_#32

Communication System: UID 0, 5G NR FDD (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.909 \text{ S/m}$; $\epsilon_r = 43.47$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 782 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn13 Front 15KHz 10MHz 25@12 DFT BPSK CH156400/Area Scan (141x181x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.288 W/kg

Body/5GNRn13 Front 15KHz 10MHz 25@12 DFT BPSK CH156400/Zoom Scan (6x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.46 V/m; Power Drift = 0.08 dB

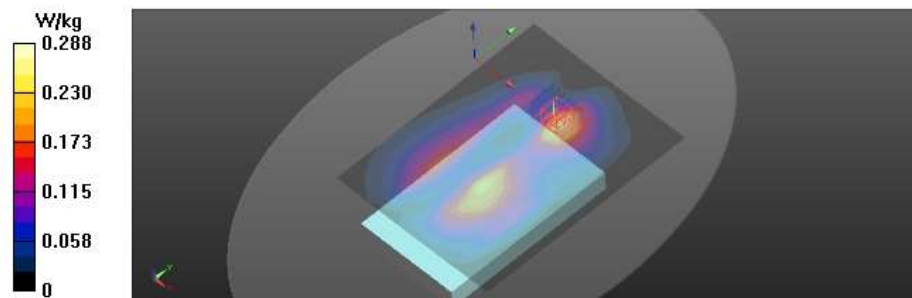
Peak SAR (extrapolated) = 0.312 W/kg

SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.170 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 74.2%

Maximum value of SAR (measured) = 0.283 W/kg



Appendix B.20 Test Plots for 5GNRn13 External

Date/Time: 2023-10-19 17:14:56

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn13 External_15KHz_10MHz_1@1_DFT_BPSK_CH156400.da53:0](#)

Input Power : 100mW

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, 5G NR FDD (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.909 \text{ S/m}$; $\epsilon_r = 43.47$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 782 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn13 External_15KHz_10MHz_1@1_DFT_BPSK_CH156400/Area Scan (141x181x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0777 W/kg

Body/5GNRn13 External_15KHz_10MHz_1@1_DFT_BPSK_CH156400/Zoom Scan (6x7x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.755 V/m; Power Drift = 0.19 dB

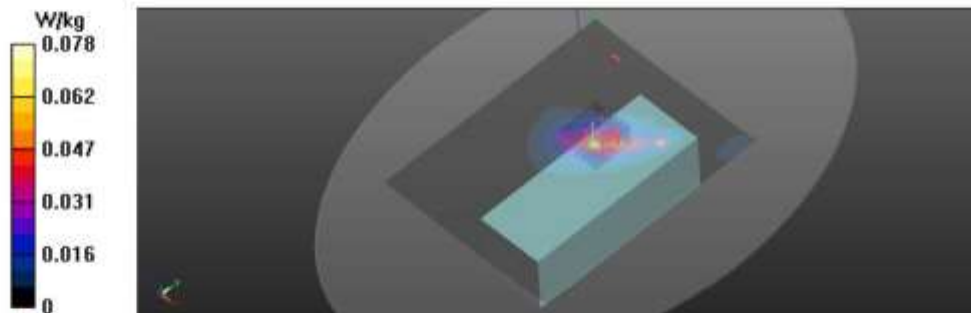
Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.044 W/kg; SAR(10 g) = 0.024 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 39.8%

Maximum value of SAR (measured) = 0.0750 W/kg



Appendix B.21 Test Plots for 5GNRn14

Date/Time: 2023-10-18 10:47:17

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn14_Front_15KHz_10MHz_25@12_DFT_BPSK_CH158600_da53_0](#)
DUT: TFGMEIBBCDB1; Type: Telematics device; Serial: EBR42280006K_#32

Communication System: UID 0, 5G NR FDD (0); Frequency: 793 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 793 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 41.967$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 793 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Body/5GNRn14_Front_15KHz_10MHz_25@12_DFT_BPSK_CH158600/Area Scan (141x181x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.266 W/kg
Body/5GNRn14_Front_15KHz_10MHz_25@12_DFT_BPSK_CH158600/Zoom Scan (5x5x7)/Cube 0:

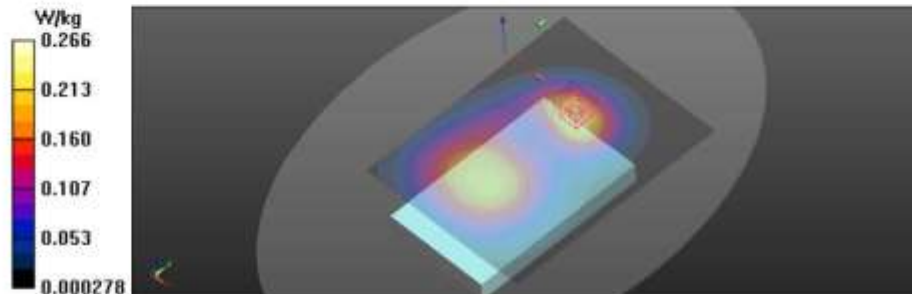
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.46 V/m ; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.291 W/kg
SAR(1 g) = 0.211 W/kg ; SAR(10 g) = 0.154 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 73.1%

Maximum value of SAR (measured) = 0.264 W/kg


Appendix B.22 Test Plots for 5GNRn14 External

Date/Time: 2023-10-18 05:01:12

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn14 External_15KHz_10MHz_1@1_DFT_BPSK_CH158600.da53.0](#)

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, 5G NR FDD (0); Frequency: 793 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 793 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 41.967$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9) @ 793 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn14 External_15KHz_10MHz_1@1_DFT_BPSK_CH158600/Area Scan (211x261x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0295 W/kg

Body/5GNRn14 External_15KHz_10MHz_1@1_DFT_BPSK_CH158600/Zoom Scan (8x7x7)/Cube

0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.601 V/m; Power Drift = 0.15 dB

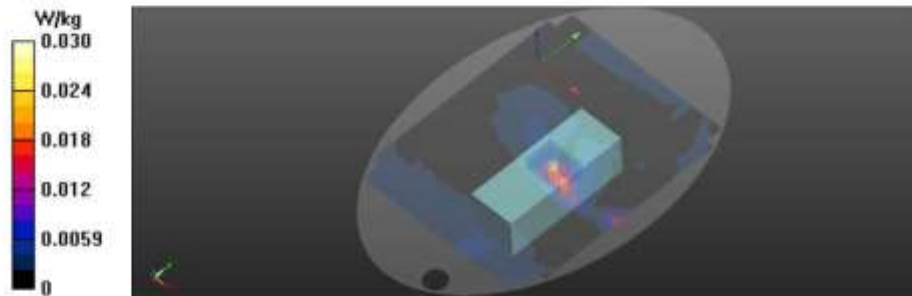
Peak SAR (extrapolated) = 0.0380 W/kg

SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.011 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 50.5%

Maximum value of SAR (measured) = 0.0298 W/kg



Appendix B.23 Test Plots for 5GNRn25

Date/Time: 2023-10-12 14:02:31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn25 Bottom_15KHz_20MHz_1@1_DFT_BPSK_CH376500.da53:0](#)

DUT: TFGMEIBBCDB; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, 5G NR FDD (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 41.268$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.41, 7.41, 7.41) @ 1882.5 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn25 Bottom_15KHz_20MHz_1@1_DFT_BPSK_CH376500/Area Scan (101x131x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.337 W/kg

Body/5GNRn25 Bottom_15KHz_20MHz_1@1_DFT_BPSK_CH376500/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.30 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.456 W/kg

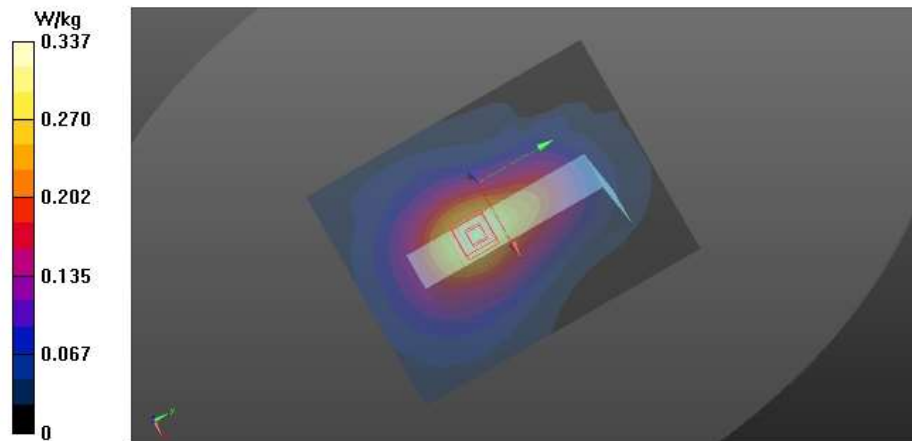
SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.197 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 64.7%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.398 W/kg



Appendix B.24 Test Plots for 5GNRn25 External

Date/Time: 2023-10-12 05:31:55

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn25 External_15KHz_20MHz_50@25_DFT_BPSK_CH376500.da53:0](#)

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, 5G NR FDD (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 41.268$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.41, 7.41, 7.41) @ 1882.5 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn25 External_15KHz_20MHz_50@25_DFT_BPSK_CH376500/Area Scan (211x261x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0191 W/kg

Body/5GNRn25 External_15KHz_20MHz_50@25_DFT_BPSK_CH376500/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.837 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0230 W/kg

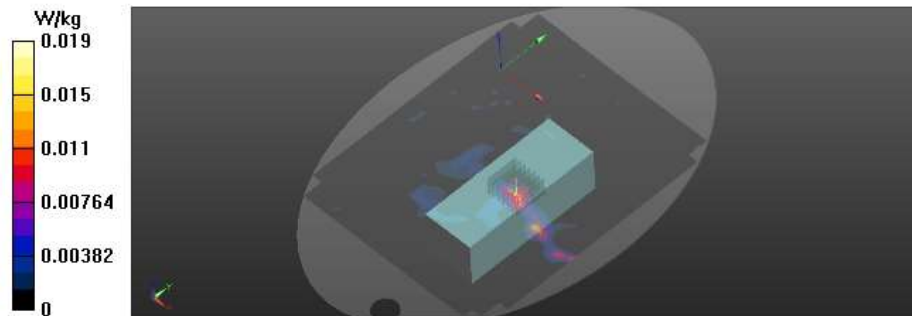
SAR(1 g) = 0.00981 W/kg; SAR(10 g) = 0.00408 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 44.5%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0175 W/kg



Appendix B.25 Test Plots for 5GNRn26

Date/Time: 2023-10-16 08:21:01

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn26 Front_15KHz_20MHz_1@1_DFT_QPSK_CH166300.da53.0](#)

DUT: TFGMEIBBCDB1; Type: Telematics device; Serial: EBR42280006K_#32

Communication System: UID 0, 5G NR FDD (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.881$ S/m; $\epsilon_r = 43.439$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(8.79, 8.79, 8.79) @ 831.5 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn26 Front_15KHz_20MHz_1@1_DFT_QPSK_CH166300/Area Scan (141x181x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.308 W/kg

Body/5GNRn26 Front_15KHz_20MHz_1@1_DFT_QPSK_CH166300/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.971 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.330 W/kg

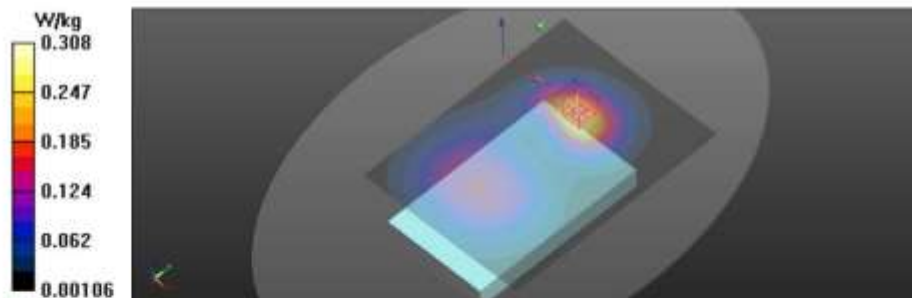
SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.167 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 71.1%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.295 W/kg



Appendix B.26 Test Plots for 5GNRn26 External

Date/Time: 2023-10-16 01:41:45

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn26 External_15KHz_20MHz_1@1_DFT_QPSK_CH166300.da53.0](#)

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, 5G NR FDD (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.881$ S/m; $\epsilon_r = 43.439$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(8.79, 8.79, 8.79) @ 831.5 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn26 External_15KHz_20MHz_1@1_DFT_QPSK_CH166300/Area Scan (211x261x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0769 W/kg

Body/5GNRn26 External_15KHz_20MHz_1@1_DFT_QPSK_CH166300/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.300 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.0420 W/kg

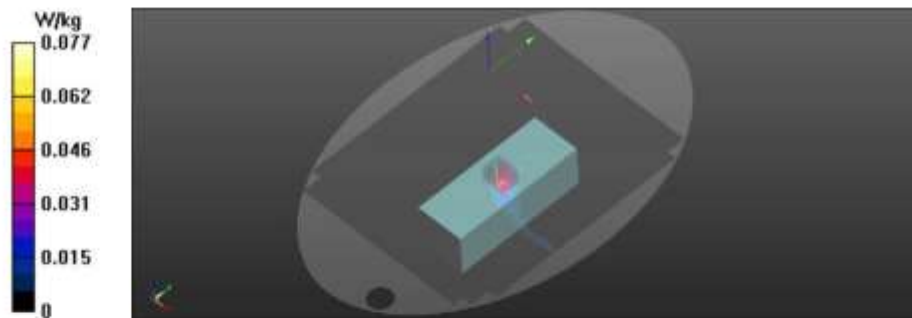
SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.011 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 39.9%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0292 W/kg



Appendix B.27 Test Plots for 5GNRn66

Date/Time: 2023-10-14 12:00:27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn66 Front_15KHz_40MHz_1@1_DFT_BPSK_CH349000.da53:0](#)

DUT: TFGMEIBBCDB; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, 5G NR FDD (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.355$ S/m; $\epsilon_r = 41.047$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.6, 7.6, 7.6) @ 1745 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn66 Front_15KHz_40MHz_1@1_DFT_BPSK_CH349000/Area Scan (141x181x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.670 W/kg

Body/5GNRn66 Front_15KHz_40MHz_1@1_DFT_BPSK_CH349000/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 19.88 V/m; Power Drift = -0.02 dB

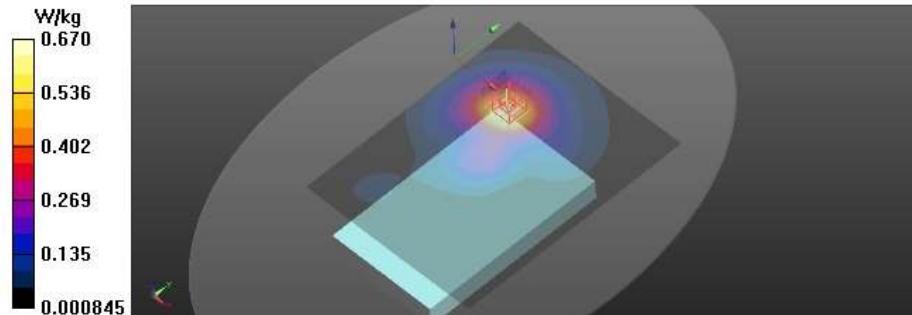
Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.560 W/kg; SAR(10 g) = 0.357 W/kg

Smallest distance from peaks to all points 3 dB below = 3.6 mm

Ratio of SAR at M2 to SAR at M1 = 68.9%

Maximum value of SAR (measured) = 0.662 W/kg



Appendix B.28 Test Plots for 5GNRn66 External

Date/Time: 2023-10-14 03:20:30

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn66 External_15KHz_40MHz_108@54_DFT_BPSK_CH349000.da53:0](#)

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, 5G NR FDD (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.355$ S/m; $\epsilon_r = 41.047$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.6, 7.6, 7.6) @ 1745 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn66 External_15KHz_40MHz_108@54_DFT_BPSK_CH349000/Area Scan (211x261x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.0319 W/kg

Body/5GNRn66 External_15KHz_40MHz_108@54_DFT_BPSK_CH349000/Zoom Scan

(9x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.973 V/m; Power Drift = -0.18 dB

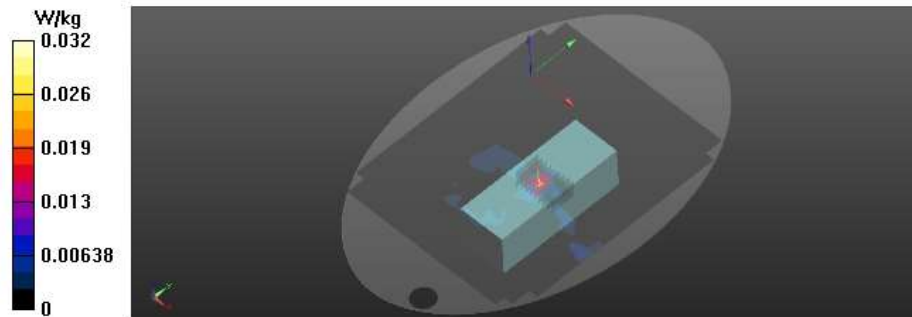
Peak SAR (extrapolated) = 0.0410 W/kg

SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00504 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 32.6%

Maximum value of SAR (measured) = 0.0316 W/kg



Appendix B.29 Test Plots for 5GNRn71

Date/Time: 2023-10-13 07:01:54

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn71 Front_15KHz_20MHz_50@25_DFT_BPSK_CH136100.da53-0](#)

DUT: TFGMEIBBCDB; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, 5G NR FDD (0); Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 680.5$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 43.458$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 680.5 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn71 Front_15KHz_20MHz_50@25_DFT_BPSK_CH136100/Area Scan (141x181x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.162 W/kg

Body/5GNRn71 Front_15KHz_20MHz_50@25_DFT_BPSK_CH136100/Zoom Scan (8x9x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.84 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.180 W/kg

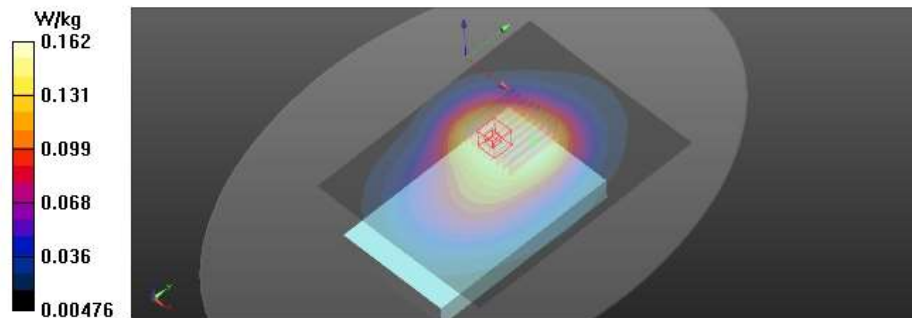
SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.108 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 74.4%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.162 W/kg



Appendix B.30 Test Plots for 5GNRn71 External

Date/Time: 2023-10-13 02:01:39

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn71 External_15KHz_20MHz_1@1_DFT_BPSK_CH136100.da53-0](#)

DUT: TFGMEIBBCDB1; Type: Telematic device; Serial: EBR42280006K_#32

Communication System: UID 0, 5G NR FDD (0); Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 680.5$ MHz; $\sigma = 0.888$ S/m; $\epsilon_r = 43.458$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 680.5 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn71 External_15KHz_20MHz_1@1_DFT_BPSK_CH136100/Area Scan (211x261x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0102 W/kg

Body/5GNRn71 External_15KHz_20MHz_1@1_DFT_BPSK_CH136100/Zoom Scan (9x6x7)/Cube

0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.071 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.00949 W/kg

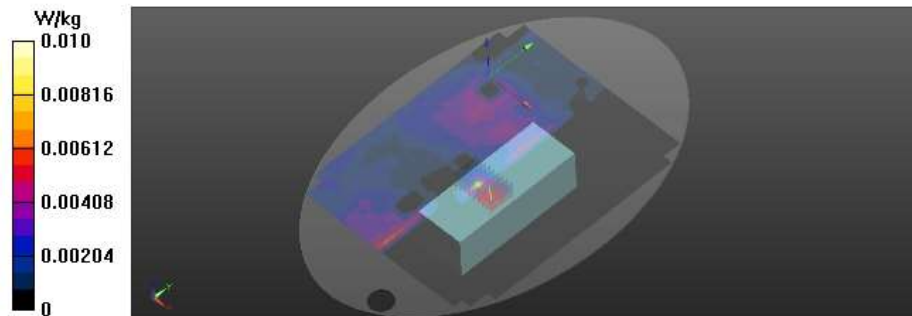
SAR(1 g) = 0.00579 W/kg; SAR(10 g) = 0.0039 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 60.2%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.00812 W/kg



Appendix B.31 Test Plots for 5GNRn41

Date/Time: 2023-10-20 04:00:28

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn41_Right Edge_30KHz_100MHz_135@67_DFT_BPSK_CH518598.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics device; Serial: EBR42280006K_#42

Communication System: UID 0, 5G NR TDD Duty 100% (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.932$ S/m; $\epsilon_r = 39.897$; $\rho = 1000$ kg/m³

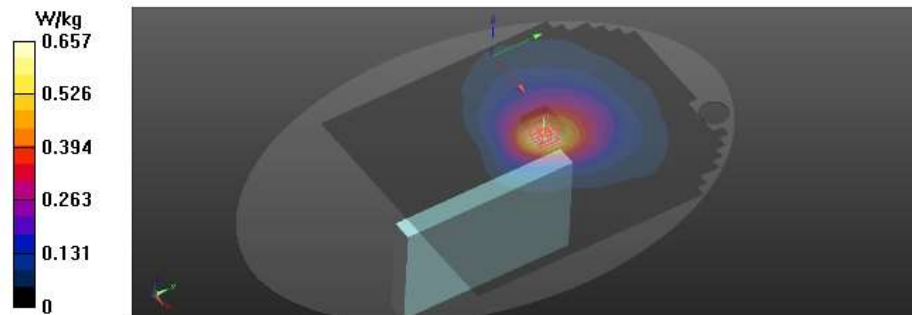
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.01, 8.01, 8.01) @ 2592.99 MHz; Calibrated: 2023-01-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1504; Calibrated: 2023-01-23
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 1200
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn41_Right Edge_30KHz_100MHz_135@67_DFT_BPSK_CH518598/Area Scan
(251x301x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.657 W/kg

Body/5GNRn41_Right Edge_30KHz_100MHz_135@67_DFT_BPSK_CH518598/Zoom Scan
(8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.33 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.825 W/kg
SAR(1 g) = 0.425 W/kg; SAR(10 g) = 0.243 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 48.8%
Maximum value of SAR (measured) = 0.661 W/kg



Appendix B.32 Test Plots for 5GNRn41 External

Date/Time: 2023-10-25 08:58:35

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn41 External Front 30KHz 100MHz 135@67 DFT BPSK CH518598.da53-0](#)

DUT: TFGMEIBBCD1; Type: Telematic device; Serial: EBR42280006K_#42

Communication System: UID 0, 5G NR TDD Duty 100% (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.999$ S/m; $\epsilon_r = 38.372$; $\rho = 1000$ kg/m³

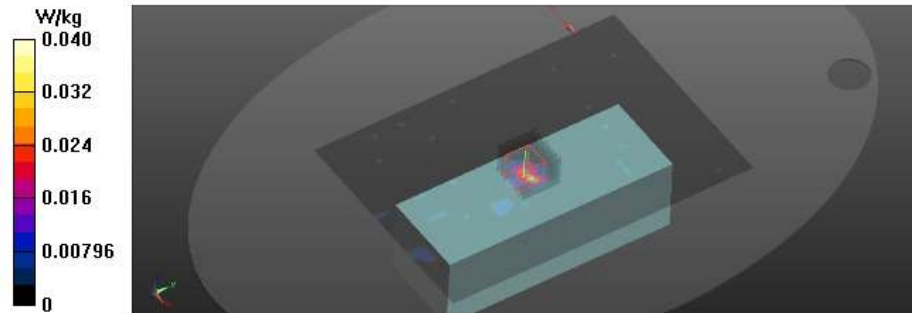
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.01, 8.01, 8.01) @ 2592.99 MHz; Calibrated: 2023-01-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1504; Calibrated: 2023-01-23
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 1200
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn41 External_Front_30KHz_100MHz_135@67_DFT_BPSK_CH518598/Area Scan (161x231x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0398 W/kg

Body/5GNRn41 External_Front_30KHz_100MHz_135@67_DFT_BPSK_CH518598/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.033 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.0540 W/kg
SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.00416 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 37.9%
Maximum value of SAR (measured) = 0.0234 W/kg



Appendix B.33 Test Plots for 5GNRn77 DoD

Date/Time: 2023-10-19 05:02:55

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 DoD Bottom_30KHz_100MHz_1@1_DFT_BPSK_CH633334.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematic device; Serial: EBR42280006K_#41

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.933$ S/m; $\epsilon_r = 39.632$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.61, 6.61, 6.61) @ 3500.01 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 DoD Bottom_30KHz_100MHz_1@1_DFT_BPSK_CH633334/Area Scan (181x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.368 W/kg

Body/5GNRn77 DoD Bottom_30KHz_100MHz_1@1_DFT_BPSK_CH633334/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 8.389 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.483 W/kg

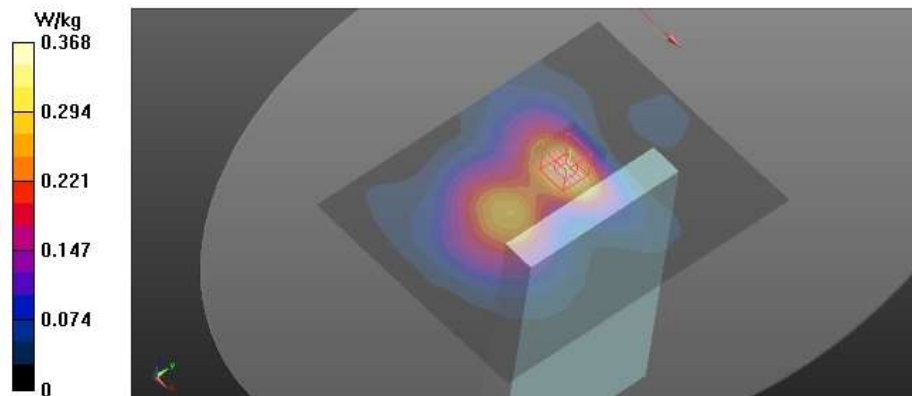
SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.117 W/kg

Smallest distance from peaks to all points 3 dB below = 19.5 mm

Ratio of SAR at M2 to SAR at M1 = 77.4%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.366 W/kg



Appendix B.34 Test Plots for 5GNRn77 DoD External

Date/Time: 2023-10-18 04:34:01

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 DoD External_30KHz_100MHz_135@67_DFT_BPSK_CH633334_da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematic device; Serial: EBR42280006K_#41

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.85$ S/m; $\epsilon_r = 38.346$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.61, 6.61, 6.61) @ 3500.01 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 DoD External_30KHz_100MHz_135@67_DFT_BPSK_CH633334/Area Scan (321x461x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.314 W/kg

Body/5GNRn77 DoD External_30KHz_100MHz_135@67_DFT_BPSK_CH633334/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 12.11 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.665 W/kg

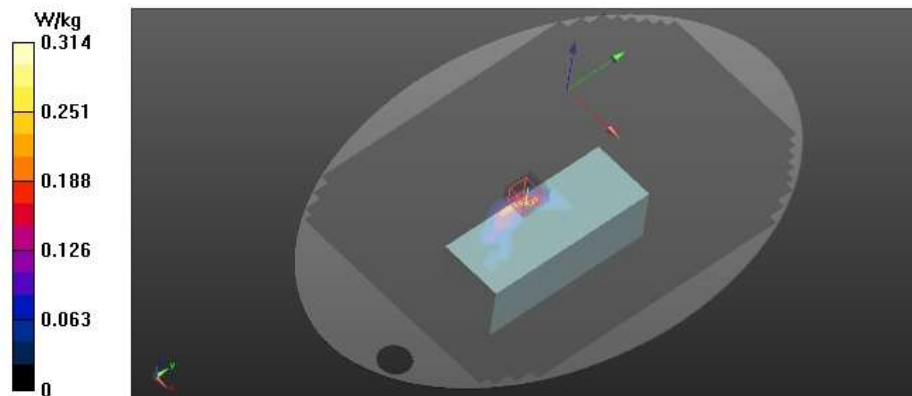
SAR(1 g) = 0.166 W/kg; SAR(10 g) = 0.056 W/kg

Smallest distance from peaks to all points 3 dB below = 4.9 mm

Ratio of SAR at M2 to SAR at M1 = 65.5%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.377 W/kg



Appendix B.35 Test Plots for 5GNRn77

Date/Time: 2023-10-20 04:35:55

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 Right Edge_30KHz_100MHz_135@67_DFT_BPSK_CH656000.da53:0](#)
DUT: TFGMEIBBCD1; Type: Telematic device; Serial: EBR42280006K_#41

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3840 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3840$ MHz; $\sigma = 3.247$ S/m; $\epsilon_r = 38.461$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.39, 6.39, 6.39) @ 3840 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 Right Edge_30KHz_100MHz_135@67_DFT_BPSK_CH656000/Area Scan
(241x321x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.693 W/kg

Body/5GNRn77 Right Edge_30KHz_100MHz_135@67_DFT_BPSK_CH656000/Zoom Scan
(9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.838 V/m; Power Drift = 0.06 dB

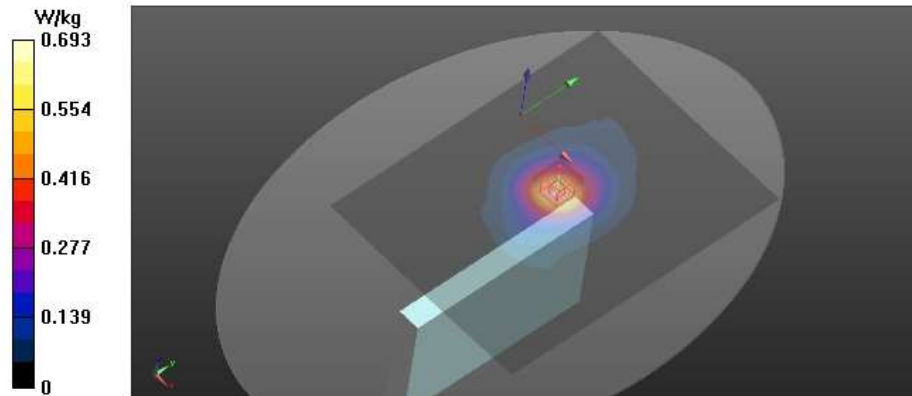
Peak SAR (extrapolated) = 0.934 W/kg

SAR(1 g) = 0.415 W/kg; SAR(10 g) = 0.208 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 76.9%

Maximum value of SAR (measured) = 0.708 W/kg



Appendix B.36 Test Plots for 5GNRn77 External

Date/Time: 2023-10-18 14:36:55

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 External 30KHz 100MHz 1@1 DFT BPSK CH656000.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematic device; Serial: EBR42280006K_#41

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3840 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3840$ MHz; $\sigma = 3.21$ S/m; $\epsilon_r = 37.813$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.39, 6.39, 6.39) @ 3840 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 External 30KHz 100MHz 1@1 DFT BPSK CH656000/Area Scan (321x461x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0622 W/kg

Body/5GNRn77 External 30KHz 100MHz 1@1 DFT BPSK CH656000/Zoom Scan

(10x11x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 5.246 V/m; Power Drift = -0.03 dB

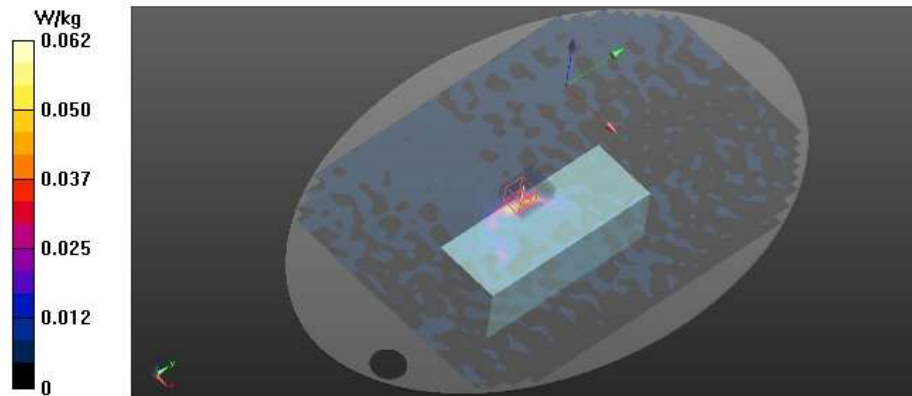
Peak SAR (extrapolated) = 0.121 W/kg

SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.011 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 68.2%

Maximum value of SAR (measured) = 0.0710 W/kg



Appendix B.37 Test Plots for 5GNRn41 MIMO

Date/Time: 2023-10-23 02:55:13

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn41 MIMO Right Edge 30KHz 100MHz 137@68 DFT BPSK CH518598.da53:0](#)
DUT: TFGMEIBBCD1; Type: Telematics device; Serial: EBR42280006K_#42

Communication System: UID 0, 5G NR TDD Duty 100% (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.947$ S/m; $\epsilon_r = 40.57$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.01, 8.01, 8.01) @ 2592.99 MHz; Calibrated: 2023-01-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1504; Calibrated: 2023-01-23
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 1200
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn41 MIMO_Right Edge_30KHz_100MHz_137@68_DFT_BPSK_CH518598/Area Scan (231x251x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.479 W/kg

Body/5GNRn41 MIMO_Right Edge_30KHz_100MHz_137@68_DFT_BPSK_CH518598/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.29 V/m; Power Drift = 0.00 dB

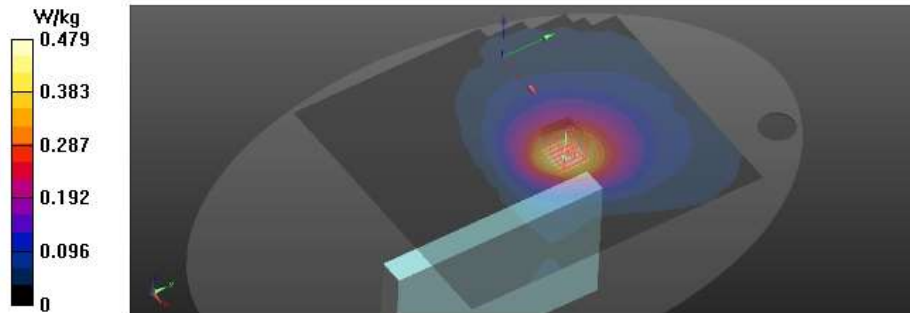
Peak SAR (extrapolated) = 0.593 W/kg

SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.178 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 49.7%

Maximum value of SAR (measured) = 0.476 W/kg



Appendix B.38 Test Plots for 5GNRn41 MIMO External

Date/Time: 2023-10-25 02:30:05

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn41 MIMO External Front 30KHz 100MHz 135@67 CP QPSK CH518598.da53.0](#)
DUT: TFGMEIBBCD1; Type: Telematic device; Serial: EBR42280006K_#42

Communication System: UID 0, 5G NR TDD Duty 100% (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.999$ S/m; $\epsilon_r = 38.372$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.01, 8.01, 8.01) @ 2592.99 MHz; Calibrated: 2023-01-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1504; Calibrated: 2023-01-23
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 1200
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn41 MIMO External Front 30KHz 100MHz 135@67 CP QPSK CH518598/Area Scan (261x331x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0367 W/kg

Body/5GNRn41 MIMO External Front 30KHz 100MHz 135@67 CP QPSK CH518598/Zoom
Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.252 V/m; Power Drift = 0.01 dB

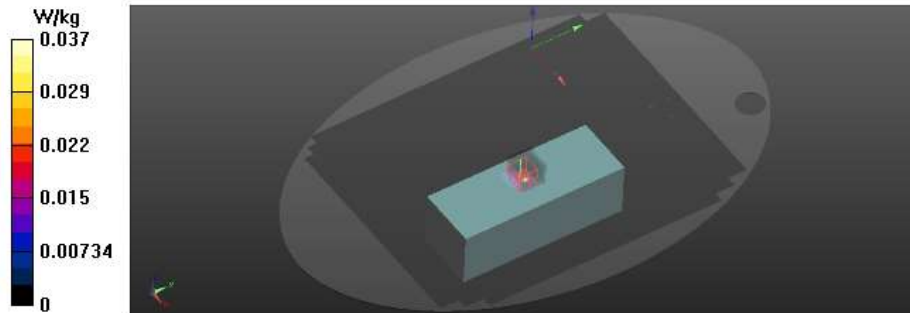
Peak SAR (extrapolated) = 0.0210 W/kg

SAR(1 g) = 0.00406 W/kg; SAR(10 g) = 0.00109 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 20.2%

Maximum value of SAR (measured) = 0.0111 W/kg



Appendix B.39 Test Plots for 5GNRn77 DoD MIMO

Date/Time: 2023-10-22 08:23:26

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 DoD MIMO Right Edge 30KHz 100MHz 137@68 CP QPSK CH633334 da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematic device; Serial: EBR42280006K_#41

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.938$ S/m; $\epsilon_r = 37.539$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.61, 6.61, 6.61) @ 3500.01 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 DoD MIMO Right Edge 30KHz 100MHz 137@68 CP QPSK CH633334/Area Scan (201x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.542 W/kg

Body/5GNRn77 DoD MIMO Right Edge 30KHz 100MHz 137@68 CP QPSK CH633334/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 14.11 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.732 W/kg

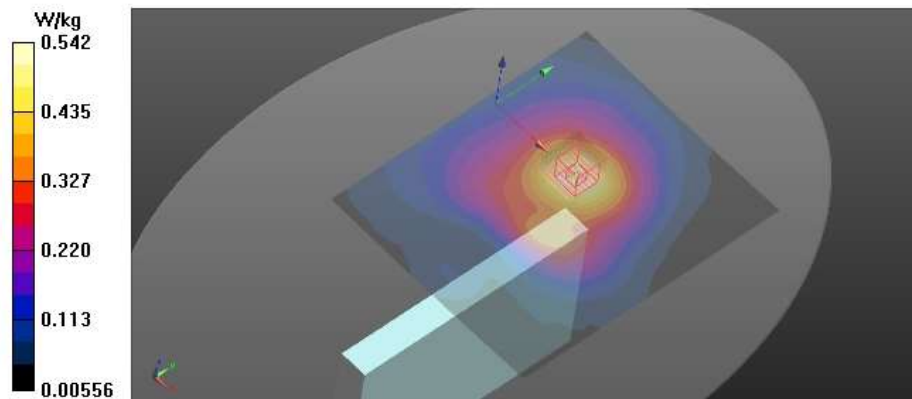
SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.179 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 76.6%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.546 W/kg



Appendix B.40 Test Plots for 5GNRn77 DoD MIMO External

Date/Time: 2023-10-21 04:15:55

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 DoD MIMO External 30KHz 100MHz 137@68 CP QPSK CH633334.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematic device; Serial: EBR42280006K_#41

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.988$ S/m; $\epsilon_r = 37.875$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.61, 6.61, 6.61) @ 3500.01 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 DoD MIMO External 30KHz 100MHz 137@68 CP QPSK CH633334/Area Scan (261x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0855 W/kg

Body/5GNRn77 DoD MIMO External 30KHz 100MHz 137@68 CP QPSK CH633334/Zoom

Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 5.313 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.115 W/kg

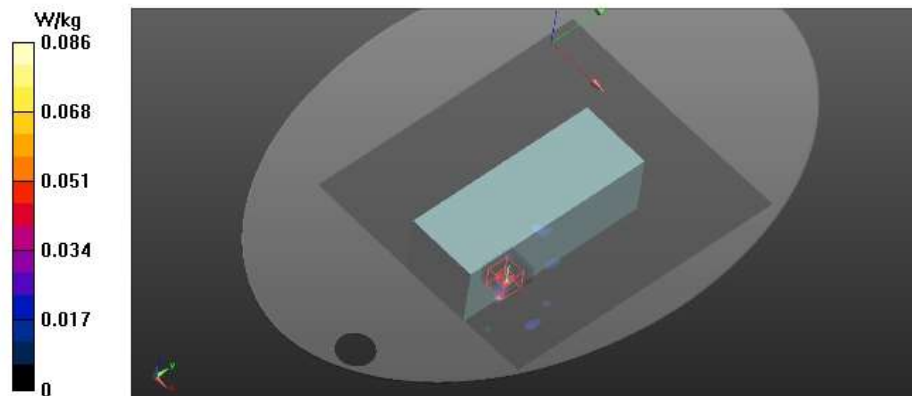
SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.00466 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 56.2%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0707 W/kg



Appendix B.41 Test Plots for 5GNRn77 MIMO

Date/Time: 2023-10-23 02:24:34

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 MIMO Bottom_30KHz_100MHz_137@68_CP_QPSK_CH656000.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematic device; Serial: EBR42280006K_#41

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3840 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3840$ MHz; $\sigma = 3.219$ S/m; $\epsilon_r = 36.691$; $\rho = 1000$ kg/m³

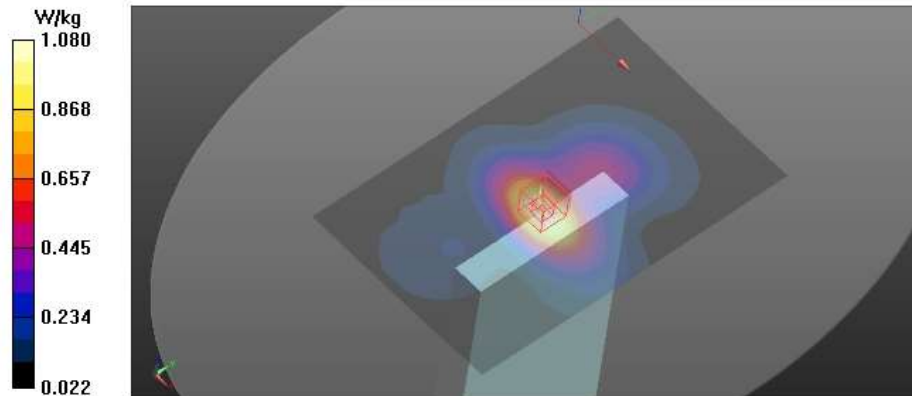
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.39, 6.39, 6.39) @ 3840 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 MIMO Bottom_30KHz_100MHz_137@68_CP_QPSK_CH656000/Area Scan
(161x261x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
 Maximum value of SAR (interpolated) = 1.08 W/kg

Body/5GNRn77 MIMO Bottom_30KHz_100MHz_137@68_CP_QPSK_CH656000/Zoom Scan
(7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
 Reference Value = 17.87 V/m; Power Drift = -0.04 dB
 Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 0.643 W/kg; SAR(10 g) = 0.329 W/kg
 Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
 Ratio of SAR at M2 to SAR at M1 = 77.4%
 Maximum value of SAR (measured) = 1.08 W/kg



Appendix B.42 Test Plots for 5GNRn77 MIMO External

Date/Time: 2023-10-21 05:07:13

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 MIMO External 30KHz 100MHz 1@1 CP QPSK CH656000.da53-0](#)

DUT: TFGMEIBBCD1; Type: Telematic device; Serial: EBR42280006K_#41

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3840 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3840$ MHz; $\sigma = 3.252$ S/m; $\epsilon_r = 36.939$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.39, 6.39, 6.39) @ 3840 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 MIMO External_30KHz_100MHz_1@1_CP_QPSK_CH656000/Area Scan
(241x281x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.139 W/kg

Body/5GNRn77 MIMO External_30KHz_100MHz_1@1_CP_QPSK_CH656000/Zoom Scan
(12x12x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 2.472 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.471 W/kg
SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.011 W/kg
Smallest distance from peaks to all points 3 dB below = 3.6 mm
Ratio of SAR at M2 to SAR at M1 = 68.9%
Maximum value of SAR (measured) = 0.127 W/kg

