

Appendix A Verification Plots

Appendix A.1 Verification Plots for Verification 750MHz

Date/Time: 2024-12-04 09:53:36

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 750MHz 2024-12-04.da53:0](#)

Input Power : 100 mW

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750$ MHz; $\sigma = 0.917$ S/m; $\epsilon_r = 41.705$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(9.57, 9.37, 10.19) @ 750 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/750MHz Verification/Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.09 W/kg

Verification/750MHz Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 46.93 V/m; Power Drift = 0.03 dB

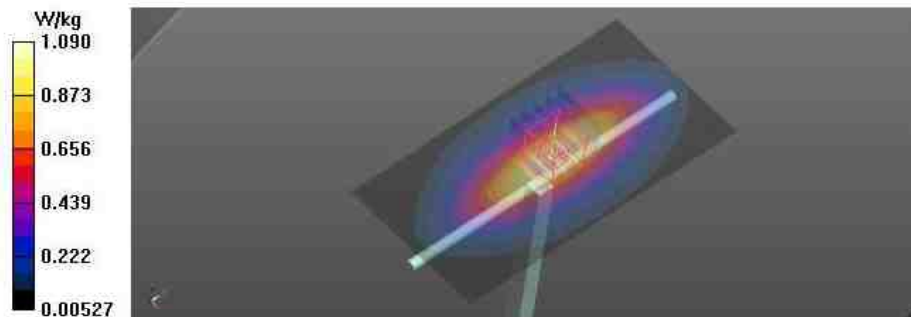
Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.584 W/kg

Smallest distance from peaks to all points 3 dB below = 19.3 mm

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

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



Date/Time: 2024-12-05 08:55:22

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 750MHz 2024-12-05.da53:0](#)

Input Power : 100 mW

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.909 \text{ S/m}$; $\epsilon_r = 42.164$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(9.57, 9.37, 10.19) @ 750 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/750MHz Verification/Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.13 W/kg

Verification/750MHz Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.80 V/m; Power Drift = -0.14 dB

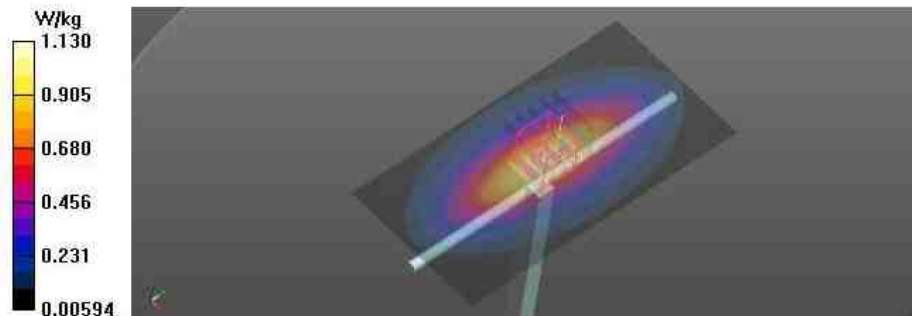
Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.848 W/kg; SAR(10 g) = 0.591 W/kg

Smallest distance from peaks to all points 3 dB below = 18.7 mm

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

Maximum value of SAR (measured) = 1.09 W/kg



Date/Time: 2024-12-06 08:34:05

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 750MHz 2024-12-06.da53:0](#)

Input Power : 100 mW

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 43.051$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(9.57, 9.37, 10.19) @ 750 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/750MHz Verification/Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.13 W/kg

Verification/750MHz Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 37.93 V/m; Power Drift = -0.09 dB

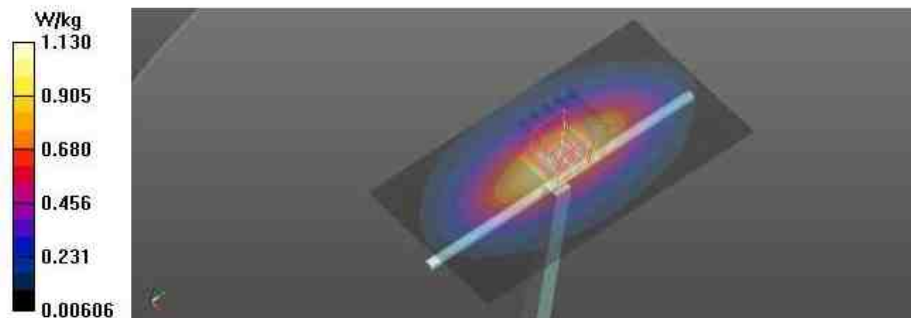
Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.819 W/kg; SAR(10 g) = 0.572 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) = 1.04 W/kg



Appendix A.2 Verification Plots for Verification 835MHz

Date/Time: 2024-12-03 09:45:43

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 835MHz 2024-12-03.da53:0](#)

Input Power : 100 mW

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:490

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.914 \text{ S/m}$; $\epsilon_r = 41.878$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 835 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/835MHz Verification/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.18 W/kg

Verification/835MHz Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 40.38 V/m; Power Drift = -0.02 dB

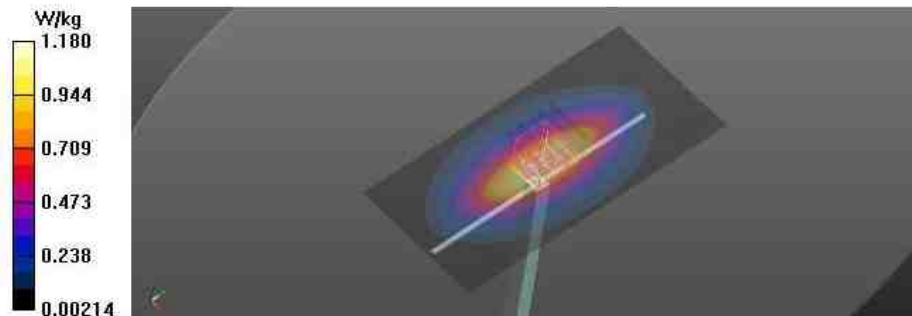
Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.924 W/kg; SAR(10 g) = 0.627 W/kg

Smallest distance from peaks to all points 3 dB below = 16.3 mm

Ratio of SAR at M2 to SAR at M1 = 70%

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



Date/Time: 2024-12-04 09:00:37

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [Verification 835MHz 2024-12-04.da53:0](#)

Input Power : 100 mW

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:490

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.914 \text{ S/m}$; $\epsilon_r = 41.939$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 835 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/835MHz Verification/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.17 W/kg

Verification/835MHz Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 38.24 V/m; Power Drift = -0.14 dB

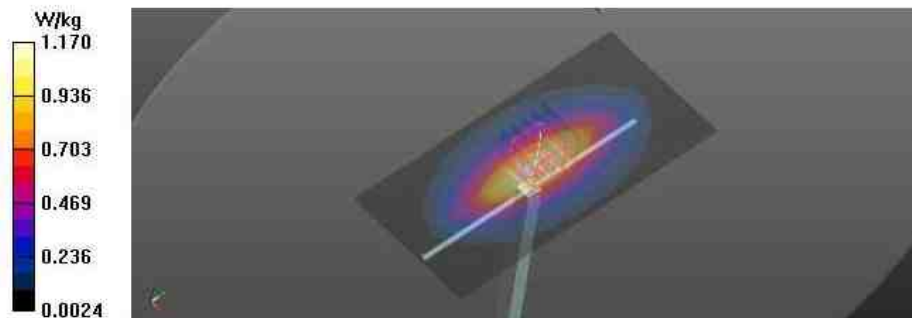
Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.927 W/kg; SAR(10 g) = 0.629 W/kg

Smallest distance from peaks to all points 3 dB below = 17.2 mm

Ratio of SAR at M2 to SAR at M1 = 69.6%

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



Date/Time: 2024-12-18 08:16:05

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 835MHz 2024-12-18.da53:0](#)

Input Power : 100 mW

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:490

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.938 \text{ S/m}$; $\epsilon_r = 40.223$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 835 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/835MHz Verification/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.32 W/kg

Verification/835MHz Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 39.73 V/m; Power Drift = 0.03 dB

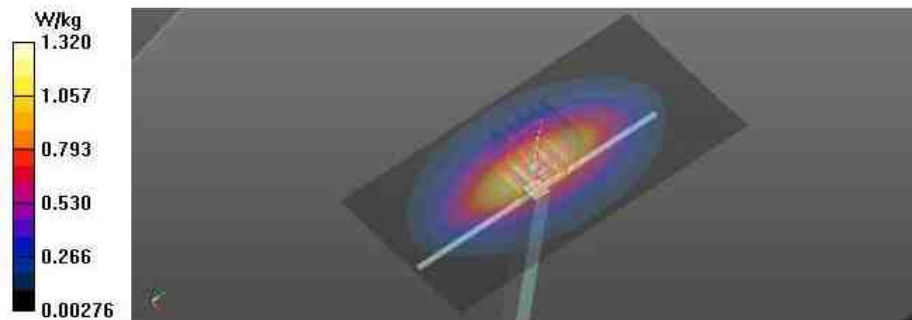
Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.946 W/kg; SAR(10 g) = 0.653 W/kg

Smallest distance from peaks to all points 3 dB below = 17.2 mm

Ratio of SAR at M2 to SAR at M1 = 71.9%

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



Appendix A.3 Verification Plots for Verification 1750MHz

Date/Time: 2024-11-27 08:31:39

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 1750MHz 2024-11-27.da53-0](#)

Input Power : 100 mW

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1070

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750 \text{ MHz}$; $\sigma = 1.35 \text{ S/m}$; $\epsilon_r = 40.942$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

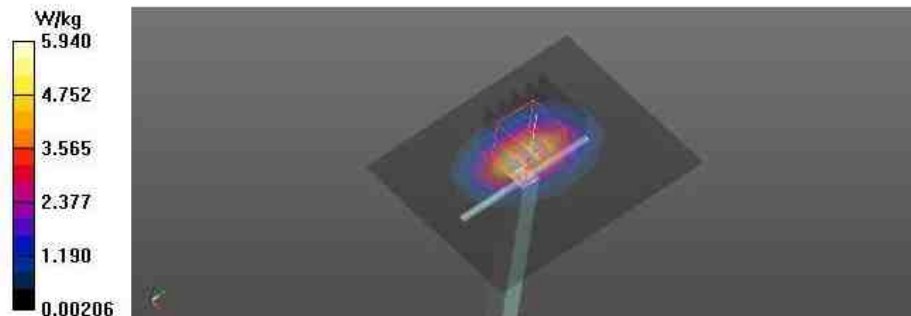
DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.64, 8.22, 8.75) @ 1750 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/1750MHz Verification/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 5.94 W/kg

Verification/1750MHz Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 69.31 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 7.08 W/kg
SAR(1 g) = 3.88 W/kg; SAR(10 g) = 2.05 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 54.5%
Maximum value of SAR (measured) = 5.96 W/kg



Date/Time: 2024-12-02 08:27:40

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 1750MHz 2024-12-02.da53-0](#)

Input Power : 100 mW

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1070

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750$ MHz; $\sigma = 1.376$ S/m; $\epsilon_r = 41.66$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.64, 8.22, 8.75) @ 1750 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/1750MHz Verification/Area Scan (61x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 5.99 W/kg

Verification/1750MHz Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 69.52 V/m; Power Drift = 0.01 dB

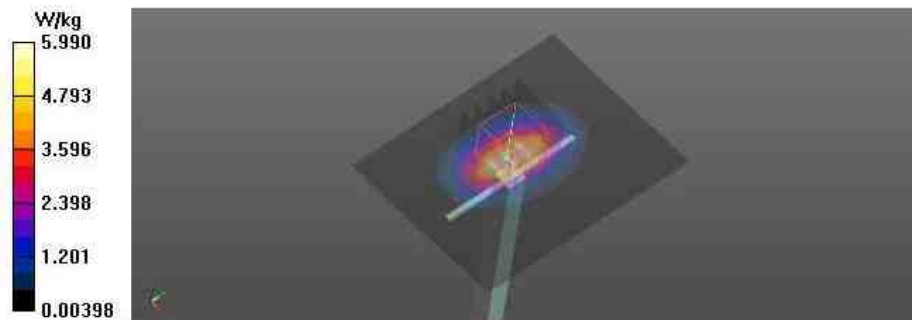
Peak SAR (extrapolated) = 7.15 W/kg

SAR(1 g) = 3.89 W/kg; SAR(10 g) = 2.04 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 54%

Maximum value of SAR (measured) = 6.01 W/kg



Date/Time: 2024-12-18 08:58:53

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 1750MHz 2024-12-18.da53-0](#)

Input Power : 100 mW

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1070

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750 \text{ MHz}$; $\sigma = 1.379 \text{ S/m}$; $\epsilon_r = 41.823$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.64, 8.22, 8.75) @ 1750 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/1750MHz Verification/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 5.43 W/kg

Verification/1750MHz Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 65.70 V/m; Power Drift = -0.01 dB

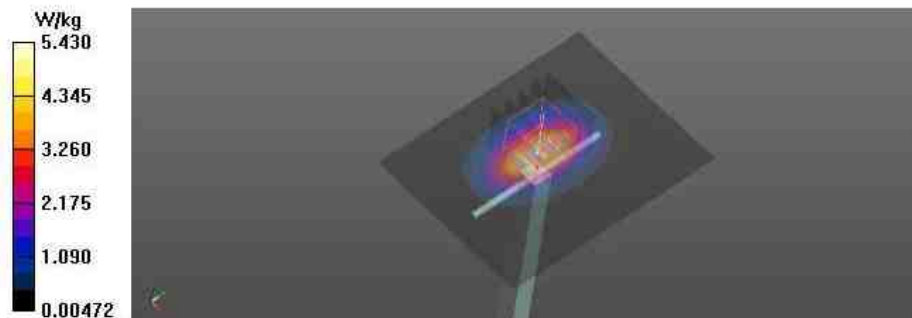
Peak SAR (extrapolated) = 5.94 W/kg

SAR(1 g) = 3.58 W/kg; SAR(10 g) = 2.03 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 60.7%

Maximum value of SAR (measured) = 5.20 W/kg



Appendix A.4 Verification Plots for Verification 1900MHz

Date/Time: 2024-11-27 08:48:54

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 1900MHz 2024-11-27.da53-0](#)

Input Power : 100 mW

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d033

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.447 \text{ S/m}$; $\epsilon_r = 40.717$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1900 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/1900MHz Verification/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 6.81 W/kg

Verification/1900MHz Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 71.21 V/m; Power Drift = -0.01 dB

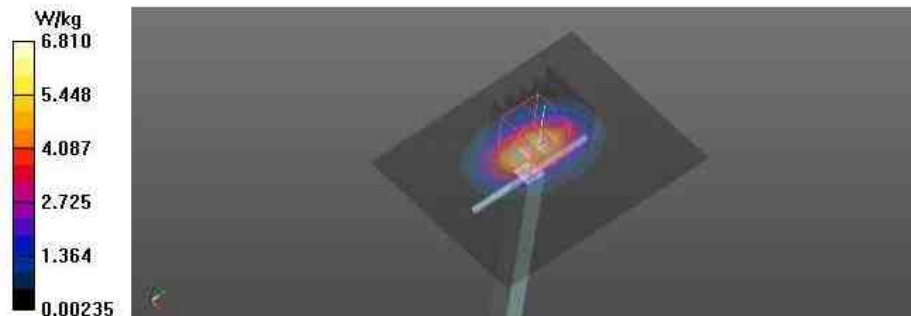
Peak SAR (extrapolated) = 8.06 W/kg

SAR(1 g) = 4.32 W/kg; SAR(10 g) = 2.22 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.8%

Maximum value of SAR (measured) = 6.72 W/kg



Date/Time: 2024-12-02 08:48:06

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 1900MHz 2024-12-02.da53-0](#)

Input Power : 100 mW

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d033

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.454 \text{ S/m}$; $\epsilon_r = 40.458$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1900 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/1900MHz Verification/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 6.81 W/kg

Verification/1900MHz Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 72.13 V/m; Power Drift = -0.02 dB

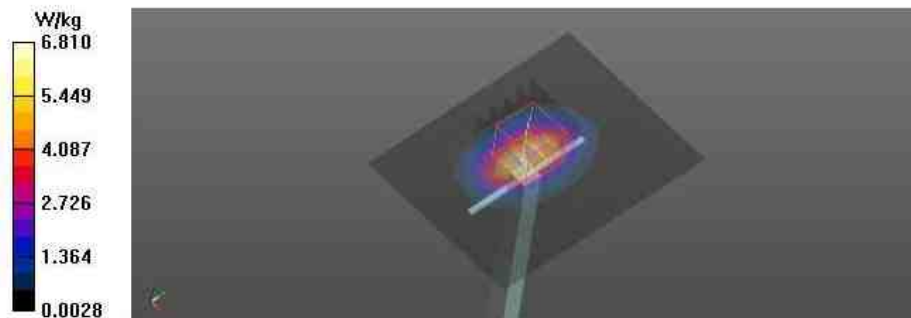
Peak SAR (extrapolated) = 8.17 W/kg

SAR(1 g) = 4.32 W/kg; SAR(10 g) = 2.21 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 6.74 W/kg



Appendix A.5 Verification Plots for Verification 2600MHz

Date/Time: 2024-12-08 08:18:29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [Verification 2600MHz_2024-12-08.da53.0](#)

Input Power : 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1124

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.978$ S/m; $\epsilon_r = 39.625$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2600 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/2600MHz Verification/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 8.45 W/kg

Verification/2600MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 67.94 V/m; Power Drift = -0.16 dB

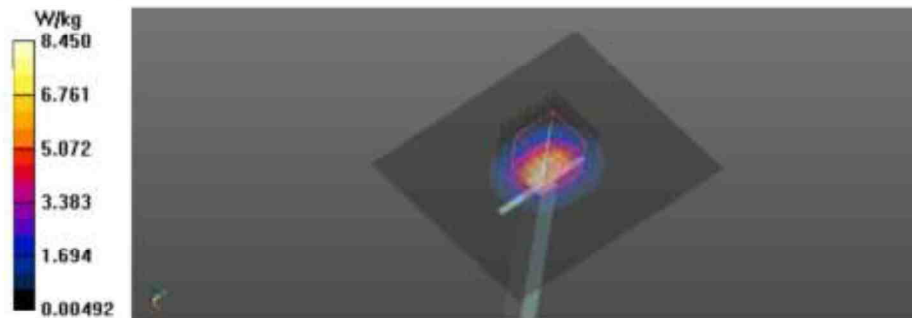
Peak SAR (extrapolated) = 9.94 W/kg

SAR(1 g) = 5.23 W/kg; SAR(10 g) = 2.52 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 53.9%

Maximum value of SAR (measured) = 8.24 W/kg



Date/Time: 2024-12-09 08:58:12

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 2600MHz 2024-12-09_da53-0](#)

Input Power : 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1124

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.972$ S/m; $\epsilon_r = 40.232$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2600 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/2600MHz Verification/Area Scan (81x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 9.64 W/kg

Verification/2600MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 70.92 V/m; Power Drift = 0.01 dB

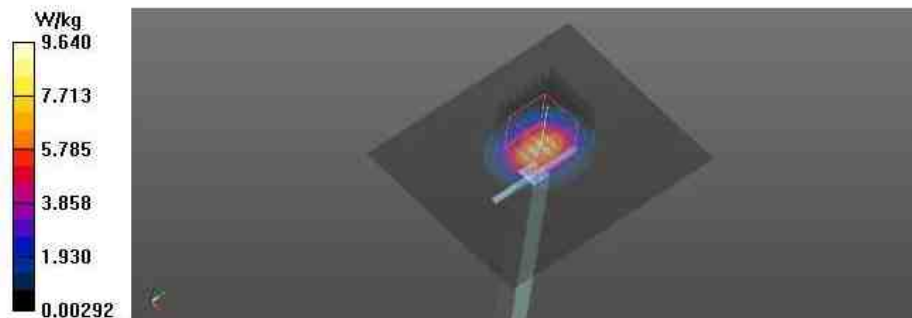
Peak SAR (extrapolated) = 9.84 W/kg

SAR(1 g) = 5.22 W/kg; SAR(10 g) = 2.54 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 54.1%

Maximum value of SAR (measured) = 8.28 W/kg



Date/Time: 2024-12-10 08:31:19

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 2600MHz 2024-12-10.da53-0](#)

Input Power : 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1124

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.922$ S/m; $\epsilon_r = 40.373$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2600 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/2600MHz Verification/Area Scan (81x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 8.49 W/kg

Verification/2600MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 67.77 V/m; Power Drift = -0.07 dB

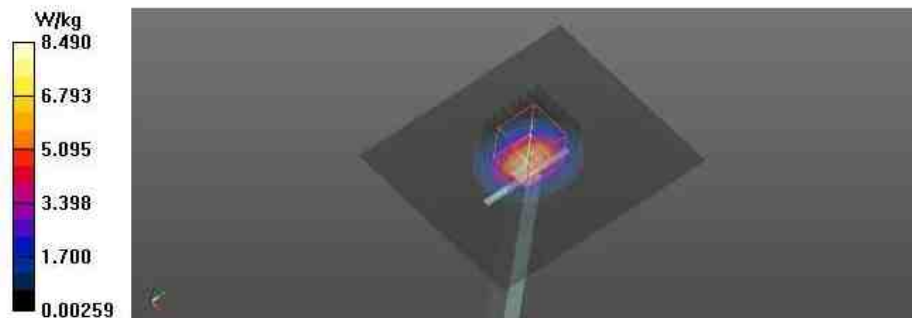
Peak SAR (extrapolated) = 9.79 W/kg

SAR(1 g) = 5.15 W/kg; SAR(10 g) = 2.49 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 53.8%

Maximum value of SAR (measured) = 8.17 W/kg



Date/Time: 2024-12-18 09:52:59

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 2600MHz 2024-12-18.da53-0](#)

Input Power : 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1124

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.925$ S/m; $\epsilon_r = 39.156$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2600 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/2600MHz Verification/Area Scan (81x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 8.19 W/kg

Verification/2600MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 64.41 V/m; Power Drift = -0.07 dB

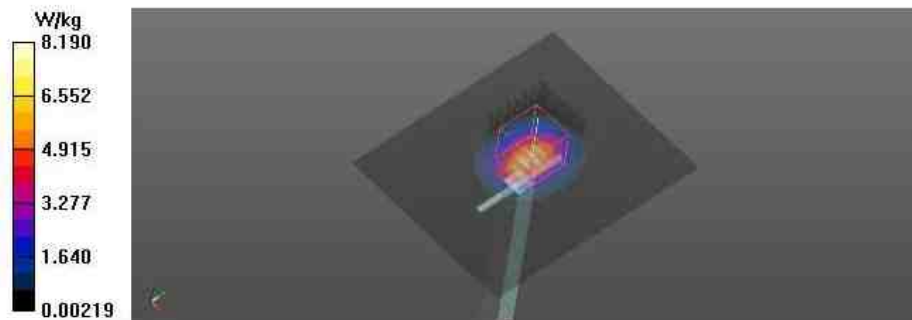
Peak SAR (extrapolated) = 9.62 W/kg

SAR(1 g) = 5.15 W/kg; SAR(10 g) = 2.5 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 55%

Maximum value of SAR (measured) = 8.11 W/kg



Appendix A.6 Verification Plots for Verification 3500MHz

Date/Time: 2024-12-11 10:17:31

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 3500MHz 2024-12-11.da53.0](#)

Input Power : 100 mW

DUT: Dipole 3500 MHz D3500V2; Type: D3500V2; Serial: D3500V2 - SN:1058

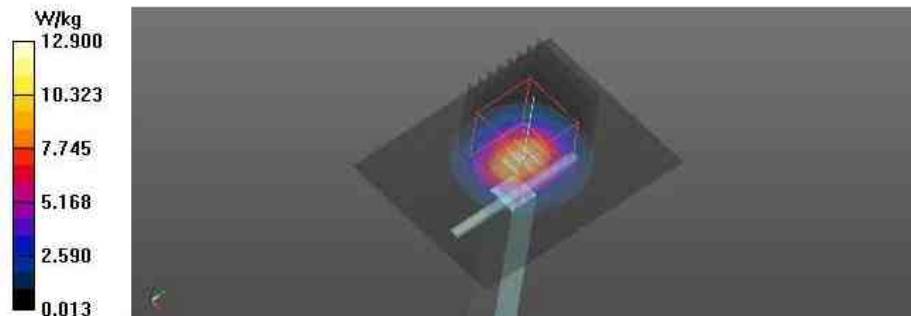
Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500 \text{ MHz}$; $\sigma = 2.925 \text{ S/m}$; $\epsilon_r = 38.973$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.2, 6.9, 7.3) @ 3500 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/3500MHz Verification/Area Scan (61x81x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 12.9 W/kg

Verification/3500MHz Verification/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 68.89 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 13.6 W/kg
SAR(1 g) = 6.12 W/kg; SAR(10 g) = 2.55 W/kg
Smallest distance from peaks to all points 3 dB below = 8.6 mm
Ratio of SAR at M2 to SAR at M1 = 80.5%
Maximum value of SAR (measured) = 10.5 W/kg



Date/Time: 2024-12-12 08:06:24

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [Verification 3500MHz 2024-12-12.da53-0](#)

Input Power : 100 mW

DUT: Dipole 3500 MHz D3500V2; Type: D3500V2; Serial: D3500V2 - SN:1058

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3500 \text{ MHz}$; $\sigma = 2.868 \text{ S/m}$; $\epsilon_r = 38.211$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.2, 6.9, 7.3) @ 3500 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/3500MHz Verification/Area Scan (61x81x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 12.7 W/kg

Verification/3500MHz Verification/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 68.46 V/m; Power Drift = 0.05 dB

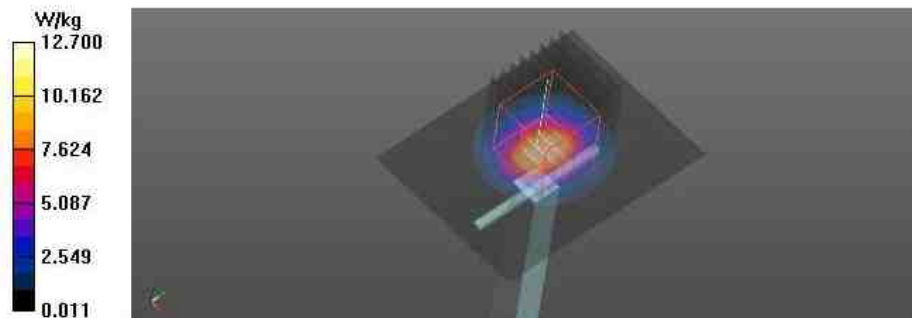
Peak SAR (extrapolated) = 13.7 W/kg

SAR(1 g) = 6.27 W/kg; SAR(10 g) = 2.62 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 80.8%

Maximum value of SAR (measured) = 10.7 W/kg



Appendix A.7 Verification Plots for Verification 3900MHz

Date/Time: 2024-12-11 08:37:26

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 3900MHz 2024-12-11.da53-0](#)

Input Power : 100 mW

DUT: Dipole 3900 MHz D3900V2; Type: D3900V2; Serial: D3900V2 - SN:1036

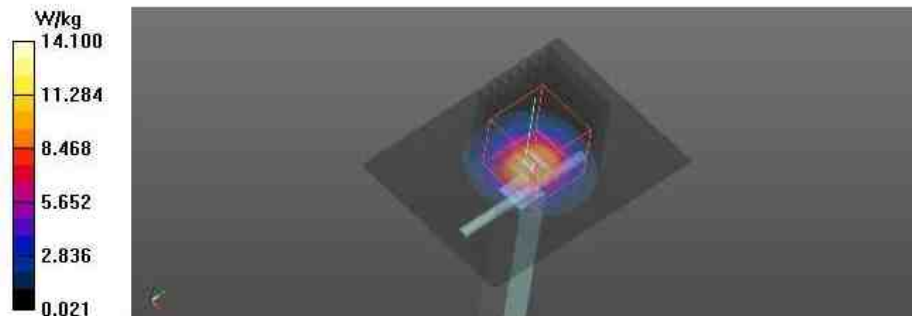
Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3900 \text{ MHz}$; $\sigma = 3.363 \text{ S/m}$; $\epsilon_r = 37.31$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(6.92, 6.61, 7.03) @ 3900 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/3900MHz Verification/Area Scan (61x81x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 14.1 W/kg

Verification/3900MHz Verification/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 63.15 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 15.7 W/kg
SAR(1 g) = 6.51 W/kg; SAR(10 g) = 2.5 W/kg
Smallest distance from peaks to all points 3 dB below = 8.4 mm
Ratio of SAR at M2 to SAR at M1 = 78.3%
Maximum value of SAR (measured) = 11.6 W/kg



Date/Time: 2024-12-12 08:56:36

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 3900MHz 2024-12-12.da53-0](#)

Input Power : 100 mW

DUT: Dipole 3900 MHz D3900V2; Type: D3900V2; Serial: D3900V2 - SN:1036

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3900$ MHz; $\sigma = 3.352$ S/m; $\epsilon_r = 37.089$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(6.92, 6.61, 7.03) @ 3900 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/3900MHz Verification/Area Scan (61x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 12.9 W/kg

Verification/3900MHz Verification/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 64.37 V/m; Power Drift = 0.01 dB

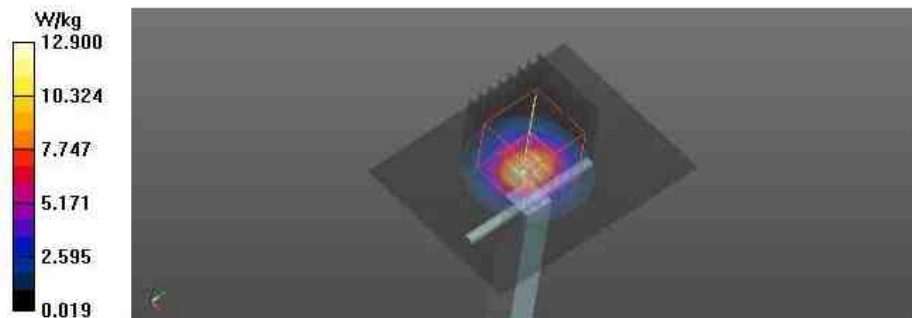
Peak SAR (extrapolated) = 15.4 W/kg

SAR(1 g) = 6.49 W/kg; SAR(10 g) = 2.49 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 79%

Maximum value of SAR (measured) = 11.6 W/kg



Appendix B Test Plots

Appendix B.1 Test Plots for WCDMA2 Ant1

Date/Time: 2024-11-27 16:15:49

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [WCDMA2 Ant1_Front_CH9400.da53-0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, WCDMA2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.432 \text{ S/m}$; $\epsilon_r = 40.801$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1880 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA2 Ant1_Front_CH9400/Area Scan (161x181x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.431 W/kg

Body/WCDMA2 Ant1_Front_CH9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.74 W/m ; Power Drift = -0.16 dB

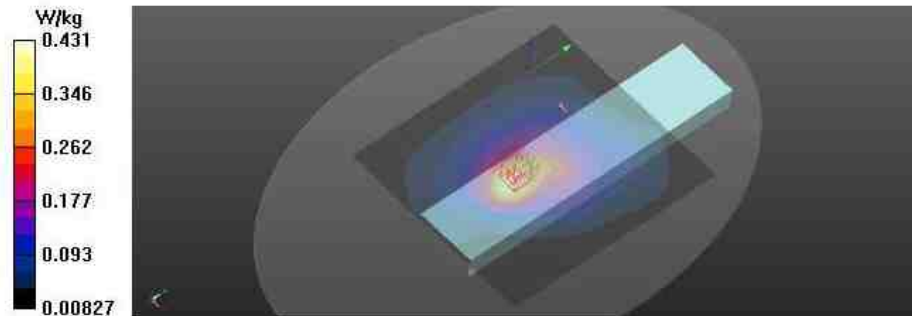
Peak SAR (extrapolated) = 0.491 W/kg

SAR(1 g) = 0.306 W/kg ; SAR(10 g) = 0.190 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 = 61%

Maximum value of SAR (measured) = 0.424 W/kg



Appendix B.2 Test Plots for WCDMA4 Ant1

Date/Time: 2024-12-02 09:44:34

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [WCDMA4 Ant1_Front_CH1413.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, WCDMA 4 (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1733$ MHz; $\sigma = 1.352$ S/m; $\epsilon_r = 41.721$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.64, 8.22, 8.75) @ 1732.6 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA2 Ant1_Front_CH1413/Area Scan (161x181x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.473 W/kg

Body/WCDMA2 Ant1_Front_CH1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 18.45 V/m; Power Drift = -0.08 dB

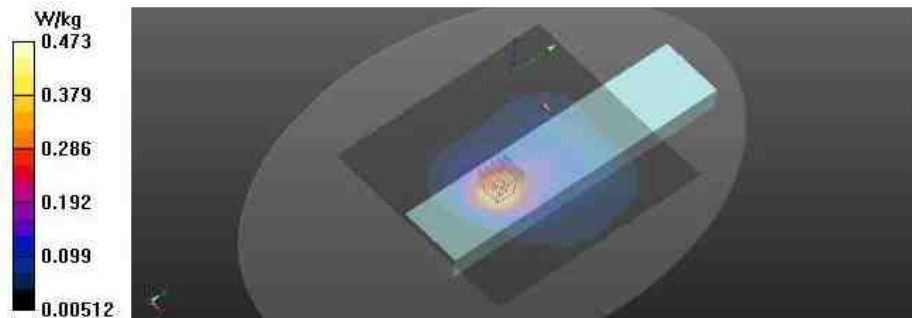
Peak SAR (extrapolated) = 0.545 W/kg

SAR(1 g) = 0.349 W/kg; SAR(10 g) = 0.221 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 = 63.4%

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



Appendix B.3 Test Plots for WCDMA5 Ant1

Date/Time: 2024-12-03 10:14:55

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [WCDMA5 Ant1_Front_CH4183.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, WCDMA5 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 837$ MHz; $\sigma = 0.916$ S/m; $\epsilon_r = 41.848$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 836.6 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA5 Ant1_Front_CH4183/Area Scan (161x181x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.146 W/kg

Body/WCDMA5 Ant1_Front_CH4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.39 V/m; Power Drift = -0.08 dB

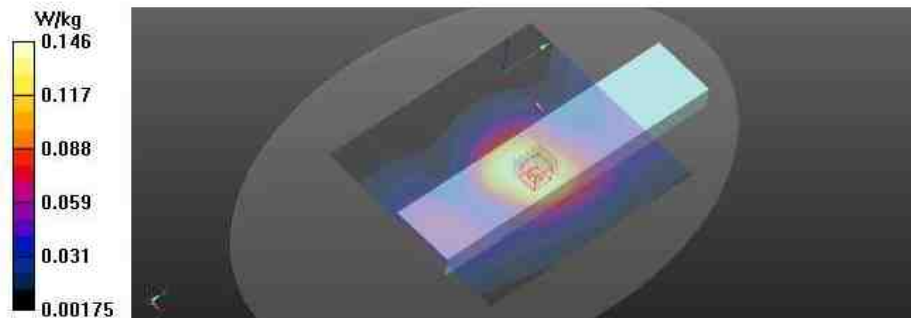
Peak SAR (extrapolated) = 0.155 W/kg

SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.092 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%

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



Appendix B.4 Test Plots for LTE2 Ant1

Date/Time: 2024-11-27 09:10:04

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE2 Ant1_Front_20MHz_1@0_QPSK_CH18700.da53.0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 40.836$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1860 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE2 Ant1_Front_20MHz_1@0_QPSK_CH18700/Area Scan (161x181x1): Interpolated grid:

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

Maximum value of SAR (interpolated) = 0.384 W/kg

Body/LTE2 Ant1_Front_20MHz_1@0_QPSK_CH18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

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

Reference Value = 17.16 V/m; Power Drift = -0.18 dB

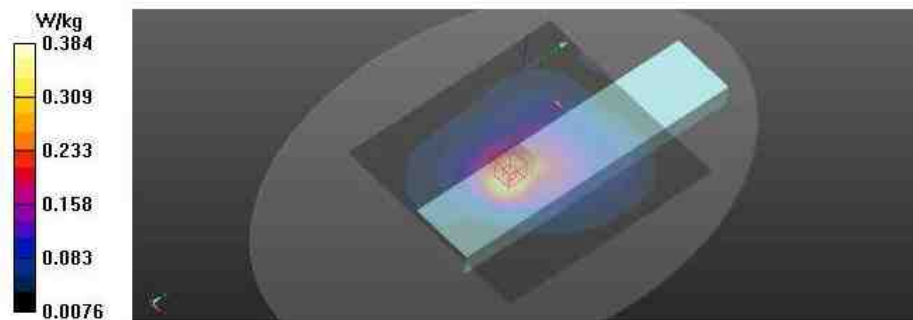
Peak SAR (extrapolated) = 0.446 W/kg

SAR(1 g) = 0.277 W/kg; SAR(10 g) = 0.172 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 = 61.1%

Maximum value of SAR (measured) = 0.386 W/kg



Appendix B.5 Test Plots for LTE5 Ant1

Date/Time: 2024-12-03 13:08:46

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: LTE5 Ant1_Front_10MHz_1@25_QPSK_CH20450.da53-0

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, LTE Band 5 (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.906 \text{ S/m}$; $\epsilon_r = 41.983$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 829 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE5 Ant1_Front_10MHz_1@25_QPSK_CH20450/Area Scan (161x221x1): Interpolated grid:

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

Maximum value of SAR (interpolated) = 0.147 W/kg

Body/LTE5 Ant1_Front_10MHz_1@25_QPSK_CH20450/Zoom Scan (5x5x7)/Cube 0: Measurement

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

Reference Value = 10.40 V/m ; Power Drift = -0.05 dB

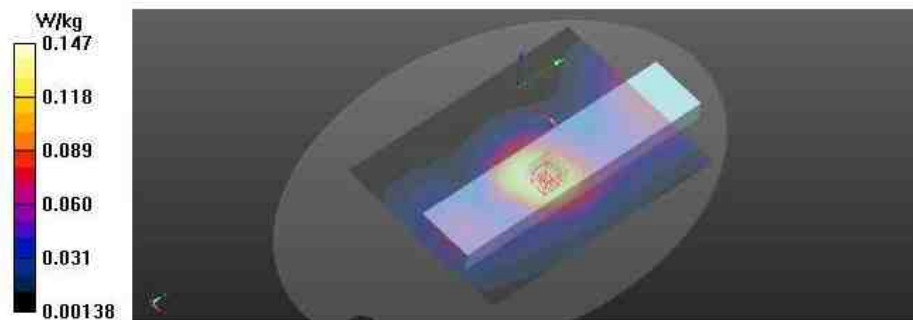
Peak SAR (extrapolated) = 0.160 W/kg

SAR(1 g) = 0.124 W/kg ; SAR(10 g) = 0.095 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%

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



Appendix B.6 Test Plots for LTE7 Ant1

Date/Time: 2024-12-08 08:43:00

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE7 Ant1 Front 20MHz 1@99 QPSK CH21100.da53-0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.929$ S/m; $\epsilon_r = 39.822$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2535 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE7 Ant1_Front_20MHz_1@99_QPSK_CH21100/Area Scan (201x231x1): Interpolated grid:

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

Maximum value of SAR (interpolated) = 0.552 W/kg

Body/LTE7 Ant1_Front_20MHz_1@99_QPSK_CH21100/Zoom Scan (7x7x7)/Cube 0: Measurement

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

Reference Value = 5.433 V/m; Power Drift = -0.16 dB

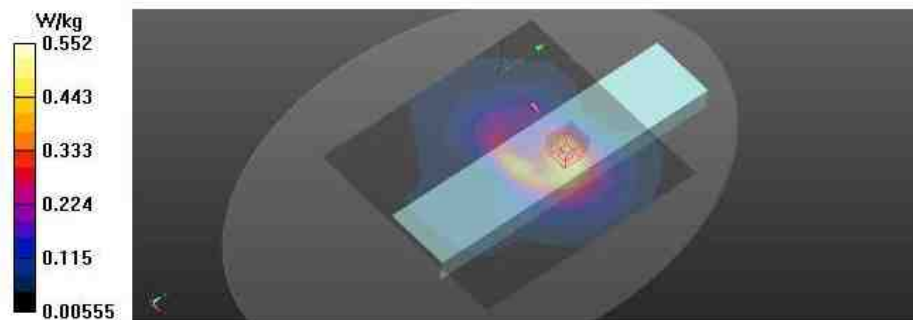
Peak SAR (extrapolated) = 0.632 W/kg

SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.255 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 = 64.2%

Maximum value of SAR (measured) = 0.554 W/kg



Appendix B.7 Test Plots for LTE12 Ant1

Date/Time: 2024-12-05 10:58:01

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE12 Ant1 Front 10MHz 1@25 QPSK CH23060.da53.0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, LTE Band 12 (0); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 704 \text{ MHz}$; $\sigma = 0.884 \text{ S/m}$; $\epsilon_r = 42.22$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(9.57, 9.37, 10.19) @ 704 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE12 Ant1_Front_10MHz_1@25_QPSK_CH23060/Area Scan (161x301x1): Interpolated grid:

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

Maximum value of SAR (interpolated) = 0.122 W/kg

Body/LTE12 Ant1_Front_10MHz_1@25_QPSK_CH23060/Zoom Scan (6x6x7)/Cube 0: Measurement

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

Reference Value = 9.580 V/m ; Power Drift = -0.09 dB

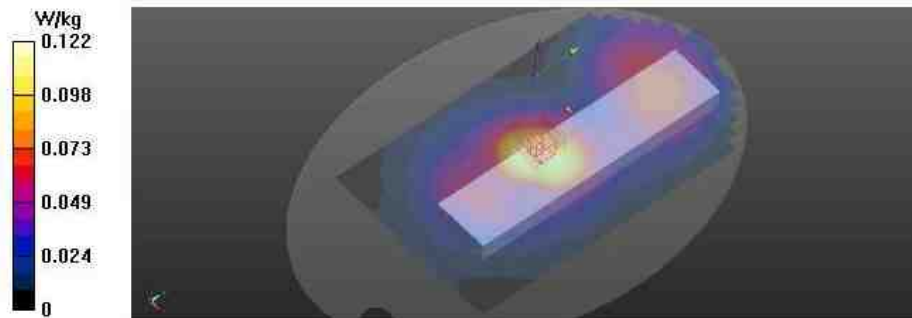
Peak SAR (extrapolated) = 0.127 W/kg

SAR(1 g) = 0.100 W/kg ; SAR(10 g) = 0.078 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 = 78.1%

Maximum value of SAR (measured) = 0.118 W/kg



Appendix B.8 Test Plots for LTE13 Ant1

Date/Time: 2024-12-04 20:00:47

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE13 Ant1 Front 10MHz 1@25 QPSK CH23230.da53.0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.931 \text{ S/m}$; $\epsilon_r = 41.704$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(9.57, 9.37, 10.19) @ 782 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE13 Ant1_Front_10MHz_1@25_QPSK_CH23230/Area Scan (161x301x1): Interpolated grid:

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

Maximum value of SAR (interpolated) = 0.178 W/kg

Body/LTE13 Ant1_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 = 9.798 V/m ; Power Drift = -0.03 dB

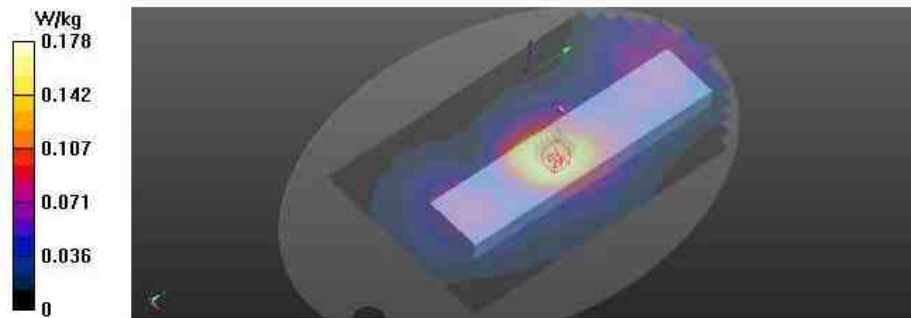
Peak SAR (extrapolated) = 0.186 W/kg

SAR(1 g) = 0.154 W/kg ; SAR(10 g) = 0.122 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 = 82.9%

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



Appendix B.9 Test Plots for LTE14 Ant1

Date/Time: 2024-12-04 18:13:43

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE14 Ant1 Front 10MHz 1@0 QPSK CH23330.da53-0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, LTE Band 14 (0); Frequency: 793 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 793 \text{ MHz}$; $\sigma = 0.934 \text{ S/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(9.57, 9.37, 10.19) @ 793 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE14 Ant1_Front_10MHz_1@0_QPSK_CH23330/Area Scan (161x301x1): Interpolated grid:

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

Maximum value of SAR (interpolated) = 0.179 W/kg

Body/LTE14 Ant1_Front_10MHz_1@0_QPSK_CH23330/Zoom Scan (5x5x7)/Cube 0: Measurement

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

Reference Value = 9.700 V/m ; Power Drift = -0.11 dB

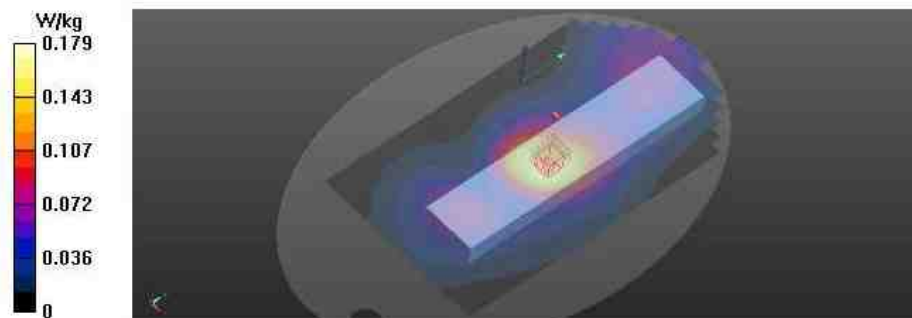
Peak SAR (extrapolated) = 0.187 W/kg

SAR(1 g) = 0.153 W/kg ; SAR(10 g) = 0.121 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 = 82.3%

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



Appendix B.10 Test Plots for LTE26 Ant1

Date/Time: 2024-12-03 17:45:02

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE26 Ant1 Front 15MHz 1@0 QPSK CH26865.da53-0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, LTE Band 26 (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 41.936$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 831.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE26 Ant1_Front_15MHz_1@0_QPSK_CH26865/Area Scan (161x221x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.144 W/kg

Body/LTE26 Ant1_Front_15MHz_1@0_QPSK_CH26865/Zoom Scan (5x5x7)/Cube 0: Measurement

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

Reference Value = 10.45 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.152 W/kg

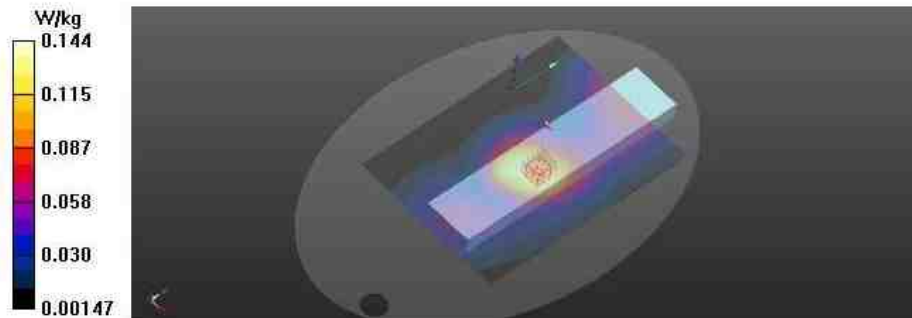
SAR(1 g) = 0.119 W/kg; SAR(10 g) = 0.092 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 78.4%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.141 W/kg



Appendix B.11 Test Plots for LTE66 Ant1

Date/Time: 2024-11-27 12:43:47

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE66 Ant1_Front_20MHz_1@0_QPSK_CH132322.da53.0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, LTE Band 66 (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.345$ S/m; $\epsilon_r = 40.941$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.64, 8.22, 8.75) @ 1745 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE66 Ant1_Front_20MHz_1@0_QPSK_CH132322/Area Scan (161x181x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.520 W/kg

Body/LTE66 Ant1_Front_20MHz_1@0_QPSK_CH132322/Zoom Scan (5x5x7)/Cube 0; Measurement

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

Reference Value = 20.27 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.586 W/kg

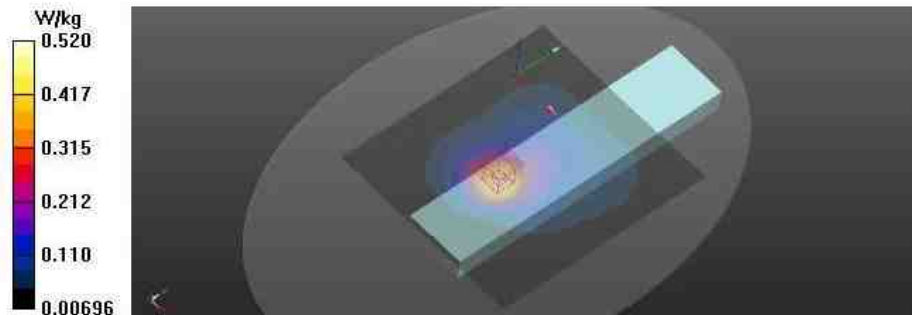
SAR(1 g) = 0.378 W/kg; SAR(10 g) = 0.240 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 63.8%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.513 W/kg



Appendix B.12 Test Plots for 5GNRn7 Ant1

Date/Time: 2024-12-09 09:40:47

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn7 Ant1 Front 15KHz 20MHz 50@25 DFT QPSK CH502000.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, 5G NR FDD (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated): $f = 2510$ MHz; $\sigma = 1.915$ S/m; $\epsilon_r = 40.942$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2510 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn7 Ant1 Front 15KHz 20MHz 50@25 DFT QPSK CH502000/Area Scan (151x181x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Info: Extrapolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.532 W/kg

Body/5GNRn7 Ant1 Front 15KHz 20MHz 50@25 DFT QPSK CH502000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.72 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.611 W/kg

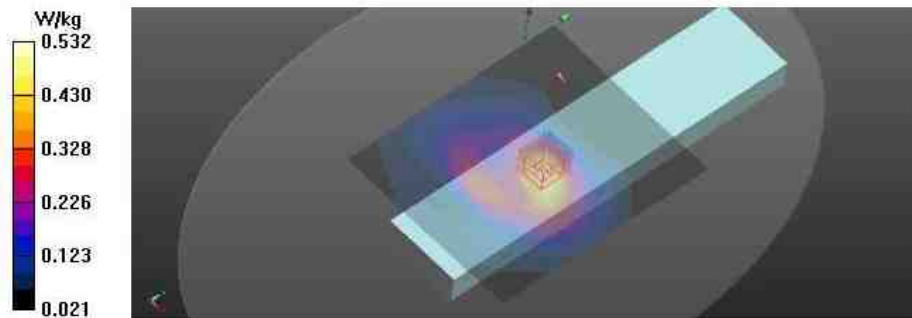
SAR(1 g) = 0.385 W/kg; SAR(10 g) = 0.240 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 62.5%

Info: Extrapolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.533 W/kg



Appendix B.13 Test Plots for 5GNRn12 Ant1

Date/Time: 2024-12-05 16:20:19

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn12 Ant1_Front_15KHz_15MHz_36@18_DFT_BPSK_CH141500.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics; 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; $\sigma = 0.887$ S/m; $\epsilon_r = 42.186$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(9.57, 9.37, 10.19) @ 707.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn12 Ant1_Front_15KHz_15MHz_36@18_DFT_BPSK_CH141500/Area Scan (161x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.124 W/kg

Body/5GNRn12 Ant1_Front_15KHz_15MHz_36@18_DFT_BPSK_CH141500/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.473 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.132 W/kg

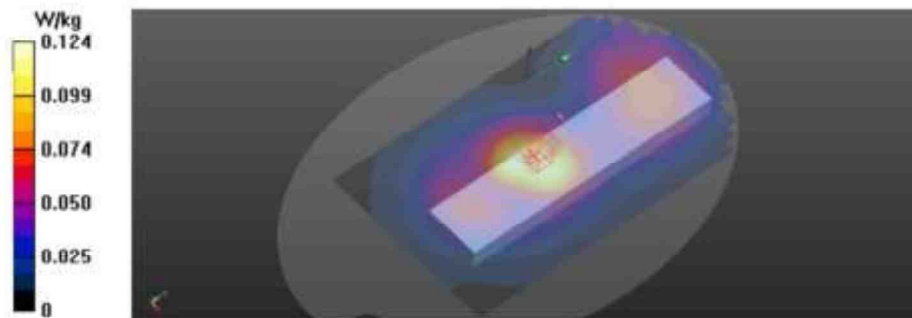
SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.082 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 77.9%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.124 W/kg



Appendix B.14 Test Plots for 5GNRn13 Ant1

Date/Time: 2024-12-06 12:34:22

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn13 Ant1 Front 15KHz 10MHz 25@12 DFT BPSK CH156400.da53:0

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.907 \text{ S/m}$; $\epsilon_r = 42.998$; $\rho = 1000 \text{ kg/m}^3$

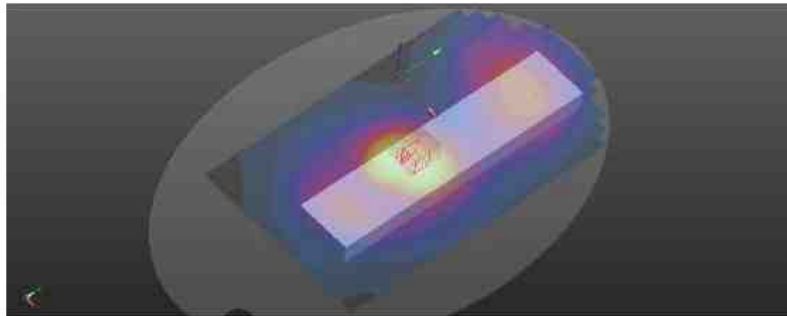
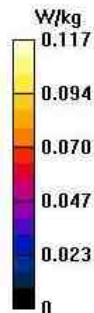
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(9.57, 9.37, 10.19) @ 782 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn13 Ant1 Front 15KHz 10MHz 25@12 DFT BPSK CH156400/Area Scan
(161x301x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.117 W/kg

Body/5GNRn13 Ant1 Front 15KHz 10MHz 25@12 DFT BPSK CH156400/Zoom Scan
(6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 9.896 V/m ; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.123 W/kg
SAR(1 g) = 0.097 W/kg ; SAR(10 g) = 0.077 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 = 78.8%
Maximum value of SAR (measured) = 0.115 W/kg



Appendix B.15 Test Plots for 5GNRn14 Ant1

Date/Time: 2024-12-06 13:26:25

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn14 Ant1 Front 15KHz 10MHz 1@1 DFT BPSK CH158600.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 793 \text{ MHz}$; $\sigma = 0.915 \text{ S/m}$; $\epsilon_r = 42.968$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(9.57, 9.37, 10.19) @ 793 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn14 Ant1_Front_15KHz_10MHz_1@1_DFT_BPSK_CH158600/Area Scan (161x301x1):

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

Maximum value of SAR (interpolated) = 0.167 W/kg

Body/5GNRn14 Ant1_Front_15KHz_10MHz_1@1_DFT_BPSK_CH158600/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.29 V/m ; Power Drift = 0.06 dB

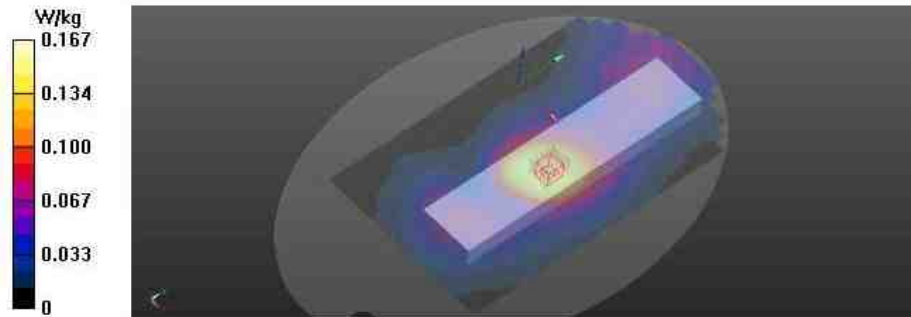
Peak SAR (extrapolated) = 0.180 W/kg

SAR(1 g) = 0.152 W/kg ; SAR(10 g) = 0.120 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 = 83.5%

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



Appendix B.16 Test Plots for 5GNRn25 Ant1

Date/Time: 2024-12-02 12:47:47

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn25 Ant1_Front_15KHz_20MHz_1@1_DFT_BPSK_CH376500.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics; 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; $\sigma = 1.441$ S/m; $\epsilon_r = 40.538$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1882.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn25 Ant1_Front_15KHz_20MHz_1@1_DFT_BPSK_CH376500/Area Scan (161x181x1):

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.646 W/kg

Body/5GNRn25 Ant1_Front_15KHz_20MHz_1@1_DFT_BPSK_CH376500/Zoom Scan

(6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.44 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.515 W/kg

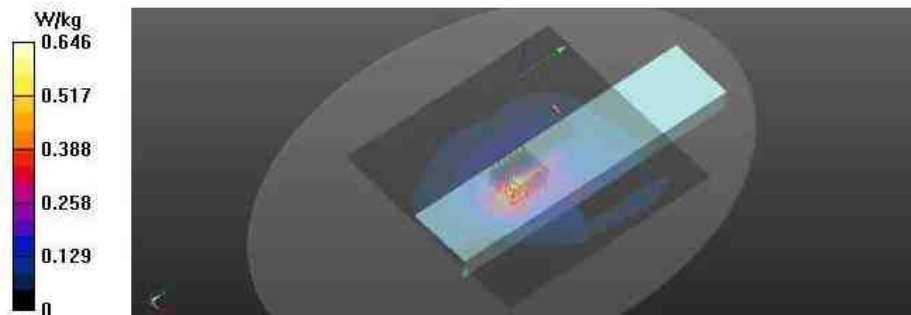
SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.197 W/kg

Smallest distance from peaks to all points 3 dB below = 25.8 mm

Ratio of SAR at M2 to SAR at M1 = 60.4%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.443 W/kg



Appendix B.17 Test Plots for 5GNRn26 Ant1

Date/Time: 2024-12-04 10:24:20

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn26 Ant1_Front_15KHz_20MHz_50@25_DFT_QPSK_CH166300.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used (interpolated): $f = 831.5 \text{ MHz}$; $\sigma = 0.909 \text{ S/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 831.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn26 Ant1_Front_15KHz_20MHz_50@25_DFT_QPSK_CH166300/Area Scan (161x301x1): 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) = 0.159 W/kg

Body/5GNRn26 Ant1_Front_15KHz_20MHz_50@25_DFT_QPSK_CH166300/Zoom Scan (7x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.40 V/m ; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.173 W/kg

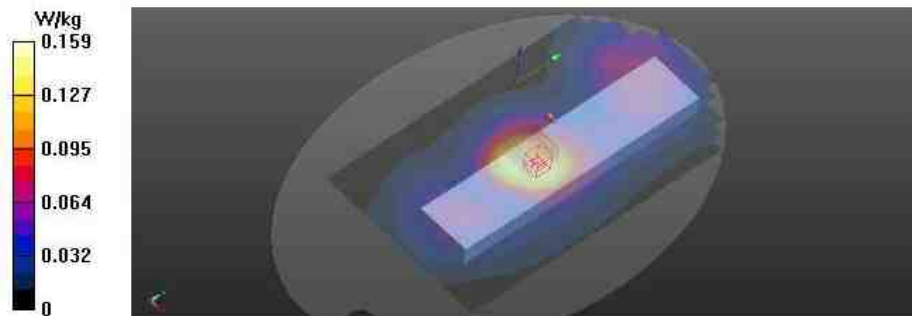
SAR(1 g) = 0.130 W/kg ; SAR(10 g) = 0.100 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 73%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.157 W/kg



Appendix B.18 Test Plots for 5GNRn41 Ant2

Date/Time: 2024-12-09 17:00:31

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn41 Ant2 Front 30KHz 100MHz 135@67 DFT BPSK CH518598.da53.0

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.966$ S/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2592.99 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn41 Ant2 Front 30KHz 100MHz 135@67 DFT BPSK CH518598/Area Scan
(171x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.434 W/kg

Body/5GNRn41 Ant2 Front 30KHz 100MHz 135@67 DFT BPSK CH518598/Zoom Scan
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.58 V/m; Power Drift = -0.12 dB

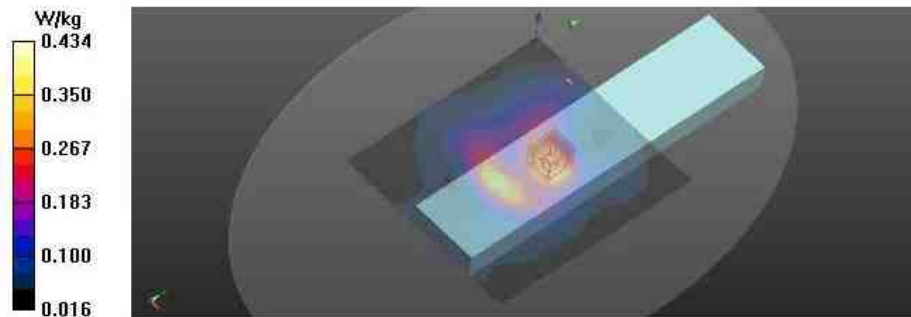
Peak SAR (extrapolated) = 0.491 W/kg

SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.192 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 = 62.8%

Maximum value of SAR (measured) = 0.426 W/kg



Appendix B.19 Test Plots for 5GNRn41 MIMO Ant1

Date/Time: 2024-12-10 11:20:09

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn41 MIMO Ant1_Front_30KHz_100MHz_1@1_CP_QPSK_CH518598.da53.0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.917$ S/m; $\epsilon_r = 40.41$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2592.99 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn41 MIMO Ant1_Front_30KHz_100MHz_1@1_CP_QPSK_CH518598/Area Scan

(171x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.211 W/kg

Body/5GNRn41 MIMO Ant1_Front_30KHz_100MHz_1@1_CP_QPSK_CH518598/Zoom Scan

(9x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.785 V/m; Power Drift = -0.12 dB

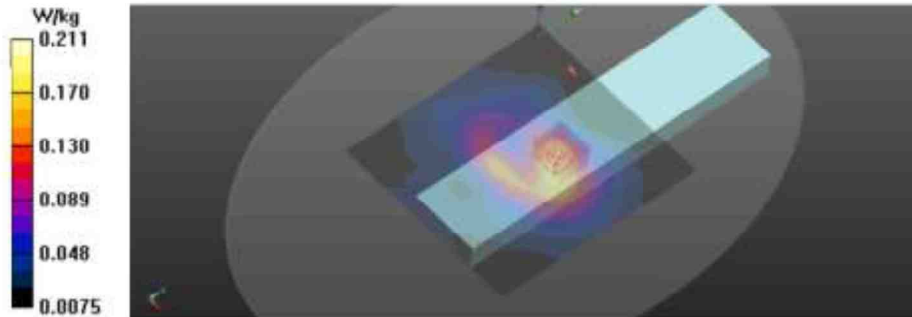
Peak SAR (extrapolated) = 0.237 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.092 W/kg

Smallest distance from peaks to all points 3 dB below = 25.8 mm

Ratio of SAR at M2 to SAR at M1 = 61.7%

Maximum value of SAR (measured) = 0.205 W/kg



Appendix B.20 Test Plots for 5GNRn41 MIMO Ant2

Date/Time: 2024-12-10 16:04:13

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn41 MIMO Ant2 Front 30KHz 100MHz 1@1 CP QPSK CH518598.da53:0

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.917$ S/m; $\epsilon_r = 40.41$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2592.99 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn41 MIMO Ant2 Front 30KHz 100MHz 1@1 CP QPSK CH518598/Area Scan
(171x191x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.191 W/kg

Body/5GNRn41 MIMO Ant2 Front 30KHz 100MHz 1@1 CP QPSK CH518598/Zoom Scan
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.19 V/m; Power Drift = -0.09 dB

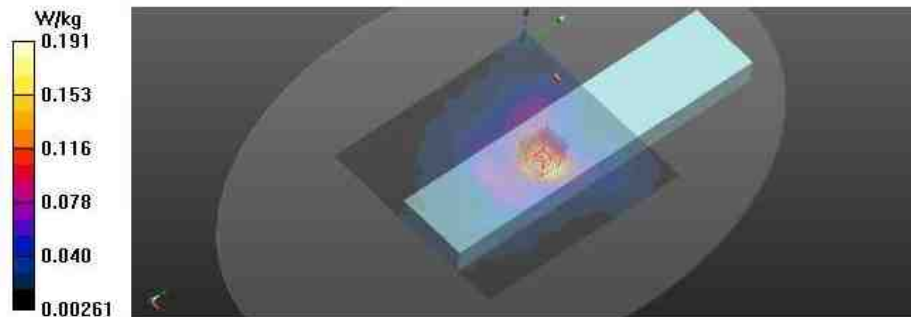
Peak SAR (extrapolated) = 0.208 W/kg

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.083 W/kg

Smallest distance from peaks to all points 3 dB below = 19.2 mm

Ratio of SAR at M2 to SAR at M1 = 62.1%

Maximum value of SAR (measured) = 0.180 W/kg



Appendix B.21 Test Plots for 5GNRn66 Ant1

Date/Time: 2024-12-02 15:23:09

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn66 Ant1 Front 15KHz 40MHz 1@1 DFT BPSK CH349000.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.37$ S/m; $\epsilon_r = 41.667$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.64, 8.22, 8.75) @ 1745 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn66 Ant1_Front_15KHz_40MHz_1@1_DFT_BPSK_CH349000/Area Scan (161x181x1):

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

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.543 W/kg

Body/5GNRn66 Ant1_Front_15KHz_40MHz_1@1_DFT_BPSK_CH349000/Zoom Scan

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

Reference Value = 19.92 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.638 W/kg

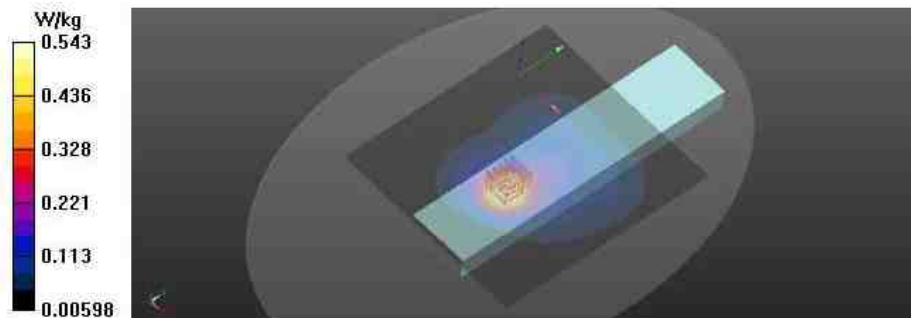
SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.259 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 63.5%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.559 W/kg



Appendix B.22 Test Plots for 5GNRn71 Ant1

Date/Time: 2024-12-06 15:55:18

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn71 Ant1_Front_15KHz_20MHz_50@25_DFT_BPSK_CH136100.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics; 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; $\sigma = 0.868$ S/m; $\epsilon_r = 43.431$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(9.57, 9.37, 10.19) @ 680.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn71 Ant1_Front_15KHz_20MHz_50@25_DFT_BPSK_CH136100/Area Scan
(161x301x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0950 W/kg

Body/5GNRn71 Ant1_Front_15KHz_20MHz_50@25_DFT_BPSK_CH136100/Zoom Scan
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.801 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.102 W/kg

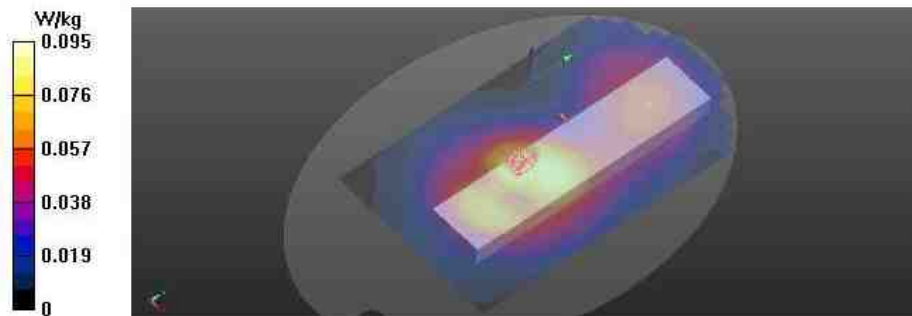
SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.059 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 75.2%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0937 W/kg



Appendix B.23 Test Plots for 5GNRn77 Ant2

Date/Time: 2024-12-11 13:38:52

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn77 Ant2 Front 30KHz 100MHz 135@67 DFT BPSK CH656000.da53.0

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 3840$ MHz; $\sigma = 3.336$ S/m; $\epsilon_r = 37.946$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(6.92, 6.61, 7.03) @ 3840 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 Ant2 Front 30KHz 100MHz 135@67 DFT BPSK CH656000/Area Scan
(261x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.356 W/kg

Body/5GNRn77 Ant2 Front 30KHz 100MHz 135@67 DFT BPSK CH656000/Zoom Scan
(8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 10.89 V/m; Power Drift = -0.10 dB

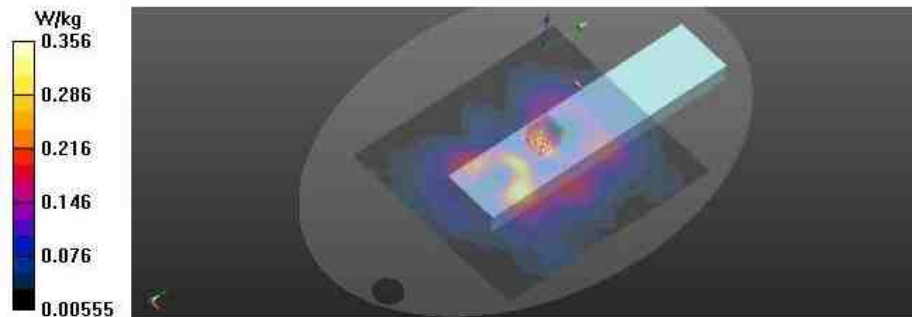
Peak SAR (extrapolated) = 0.438 W/kg

SAR(1 g) = 0.214 W/kg; SAR(10 g) = 0.105 W/kg

Smallest distance from peaks to all points 3 dB below = 13.2 mm

Ratio of SAR at M2 to SAR at M1 = 79.8%

Maximum value of SAR (measured) = 0.342 W/kg



Appendix B.24 Test Plots for 5GNRn77 DoD Ant2

Date/Time: 2024-12-12 11:13:05

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 DoD Ant2_Front_30KHz_100MHz_135@67_DFT_BPSK_CH633334.da53:0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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; $\sigma = 2.868$ S/m; $\epsilon_r = 38.211$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.2, 6.9, 7.3) @ 3500.01 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 DoD Ant2_Front_30KHz_100MHz_135@67_DFT_BPSK_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) = 0.465 W/kg

Body/5GNRn77 DoD Ant2_Front_30KHz_100MHz_135@67_DFT_BPSK_CH633334/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 13.38 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.576 W/kg

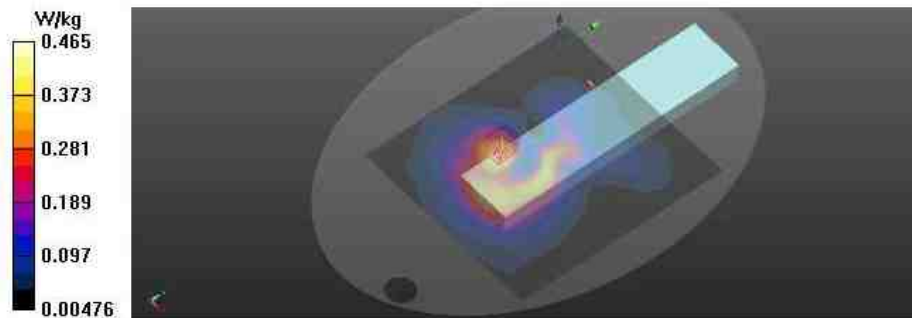
SAR(1 g) = 0.306 W/kg; SAR(10 g) = 0.171 W/kg

Smallest distance from peaks to all points 3 dB below = 19.4 mm

Ratio of SAR at M2 to SAR at M1 = 82%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.469 W/kg



Appendix B.25 Test Plots for 5GNRn77 MIMO Ant1

Date/Time: 2024-12-12 14:35:05

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn77 MIMO Ant1_Front_30KHz_100MHz_135@68_CP_QPSK_CH656000.da53-0

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 3840$ MHz; $\sigma = 3.266$ S/m; $\epsilon_r = 37.124$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(6.92, 6.61, 7.03) @ 3840 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 MIMO Ant1_Front_30KHz_100MHz_135@68_CP_QPSK_CH656000/Area Scan (261x301x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.127 W/kg

Body/5GNRn77 MIMO Ant1_Front_30KHz_100MHz_135@68_CP_QPSK_CH656000/Zoom Scan (9x9x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 5.637 V/m; Power Drift = -0.04 dB

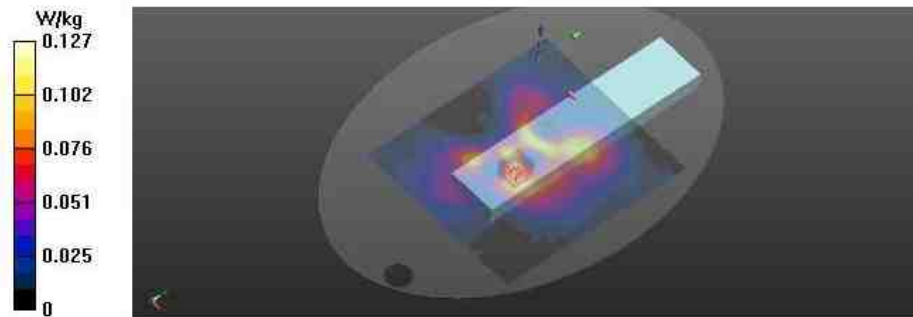
Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.041 W/kg

Smallest distance from peaks to all points 3 dB below = 14 mm

Ratio of SAR at M2 to SAR at M1 = 80.8%

Maximum value of SAR (measured) = 0.127 W/kg



Appendix B.26 Test Plots for 5GNRn77 MIMO Ant2

Date/Time: 2024-12-11 20:28:21

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn77 MIMO Ant2 Front 30KHz 100MHz 135@68 CP QPSK CH656000.da53-0

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 3840$ MHz; $\sigma = 3.336$ S/m; $\epsilon_r = 37.946$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(6.92, 6.61, 7.03) @ 3840 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 MIMO Ant2 Front 30KHz 100MHz 135@68 CP QPSK CH656000/Area Scan (261x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.137 W/kg

Body/5GNRn77 MIMO Ant2 Front 30KHz 100MHz 135@68 CP QPSK CH656000/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 7.270 V/m; Power Drift = 0.00 dB

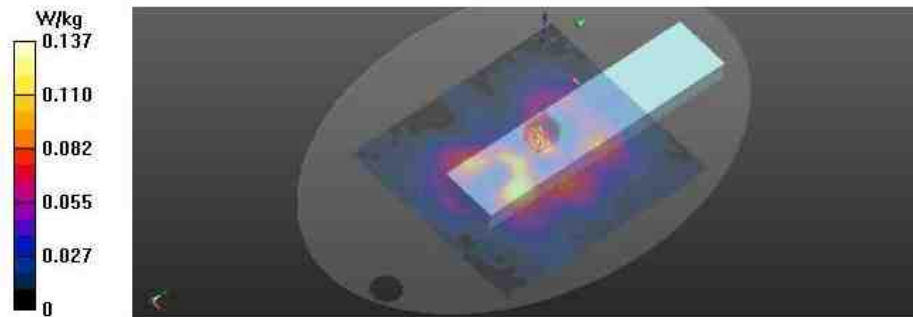
Peak SAR (extrapolated) = 0.167 W/kg

SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.039 W/kg

Smallest distance from peaks to all points 3 dB below = 13.2 mm

Ratio of SAR at M2 to SAR at M1 = 80.1%

Maximum value of SAR (measured) = 0.131 W/kg



Appendix B.27 Test Plots for 5GNRn77 DoD MIMO Ant1

Date/Time: 2024-12-12 16:45:45

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 DoD MIMO Ant1_Front_30KHz_100MHz_135@68_CP_QPSK_CH633334.da53-0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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; $\sigma = 2.868$ S/m; $\epsilon_r = 38.211$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.2, 6.9, 7.3) @ 3500.01 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 DoD MIMO Ant1_Front_30KHz_100MHz_135@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) = 0.218 W/kg

Body/5GNRn77 DoD MIMO Ant1_Front_30KHz_100MHz_135@68_CP_QPSK_CH633334/Zoom Scan (9x9x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 6.338 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.268 W/kg

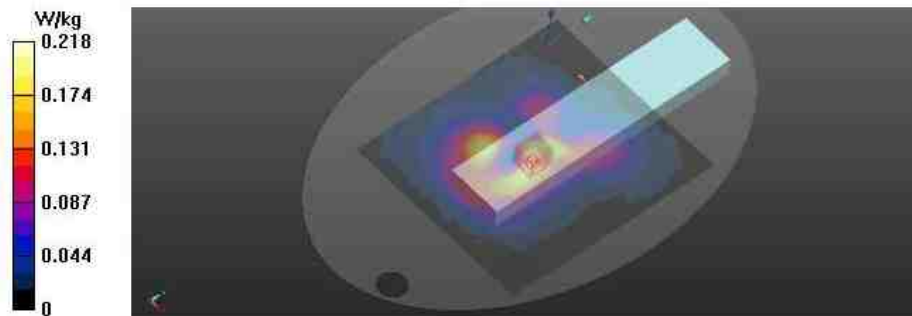
SAR(1 g) = 0.144 W/kg; SAR(10 g) = 0.080 W/kg

Smallest distance from peaks to all points 3 dB below = 14.2 mm

Ratio of SAR at M2 to SAR at M1 = 82.4%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.218 W/kg



Appendix B.28 Test Plots for 5GNRn77 DoD MIMO Ant2

Date/Time: 2024-12-11 17:18:50

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 DoD MIMO Ant2 Front 30KHz 100MHz 135@68 CP QPSK CH633334.da53-0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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; $\sigma = 2.925$ S/m; $\epsilon_r = 38.973$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.2, 6.9, 7.3) @ 3500.01 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 DoD MIMO Ant2 Front 30KHz 100MHz 135@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) = 0.178 W/kg

Body/5GNRn77 DoD MIMO Ant2 Front 30KHz 100MHz 135@68 CP QPSK CH633334/Zoom Scan (9x9x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 8.197 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.215 W/kg

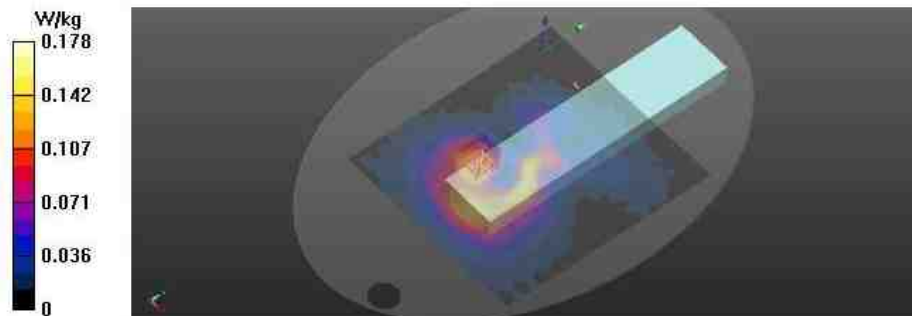
SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.063 W/kg

Smallest distance from peaks to all points 3 dB below = 18 mm

Ratio of SAR at M2 to SAR at M1 = 83.1%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.175 W/kg



Appendix B.29 Test Plots for Intra Band ULCA 5B

Date/Time: 2024-12-18 11:14:04

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: LTE5 Ant1 Front PCC 10MHz 1@49 QPSK CH20450#SCC 10MHz 1@0 QPSK CH20549.da53:0

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, LTE Band 5 (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.934 \text{ S/m}$; $\epsilon_r = 40.276$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 829 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE5

Ant1_Front_PCC_10MHz_1@49_QPSK_CH20450#SCC_10MHz_1@0_QPSK_CH20549/Area Scan

(161x221x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.187 W/kg

Body/LTE5

Ant1_Front_PCC_10MHz_1@49_QPSK_CH20450#SCC_10MHz_1@0_QPSK_CH20549/Zoom

Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.521 V/m; Power Drift = 0.00 dB

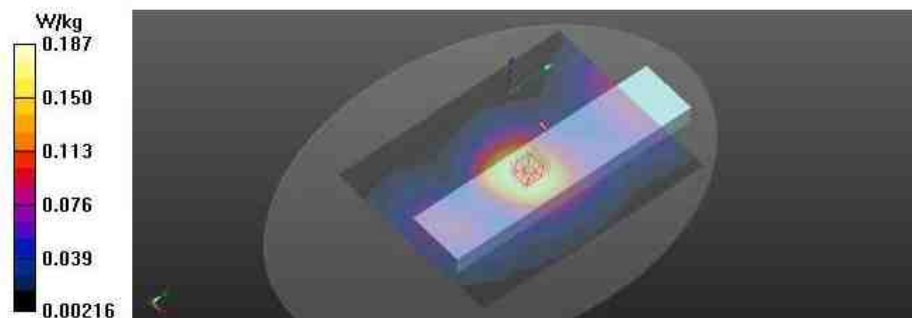
Peak SAR (extrapolated) = 0.152 W/kg

SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.096 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 = 80.2%

Maximum value of SAR (measured) = 0.141 W/kg



Appendix B.30 Test Plots for Intra Band ULCA 7C

Date/Time: 2024-12-18 17:28:29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: LTE7 Ant1 Front PCC 20MHz 1@0 QPSK CH21100#SCC 20MHz 1@99 QPSK CH20902.da53:0

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.869$ S/m; $\epsilon_r = 39.26$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2535 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE7

Ant1_Front_PCC_20MHz_1@0_QPSK_CH21100#SCC_20MHz_1@99_QPSK_CH20902/Area Scan

(201x231x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

Body/LTE7

Ant1_Front_PCC_20MHz_1@0_QPSK_CH21100#SCC_20MHz_1@99_QPSK_CH20902/Zoom

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

Reference Value = 10.11 V/m; Power Drift = 0.05 dB

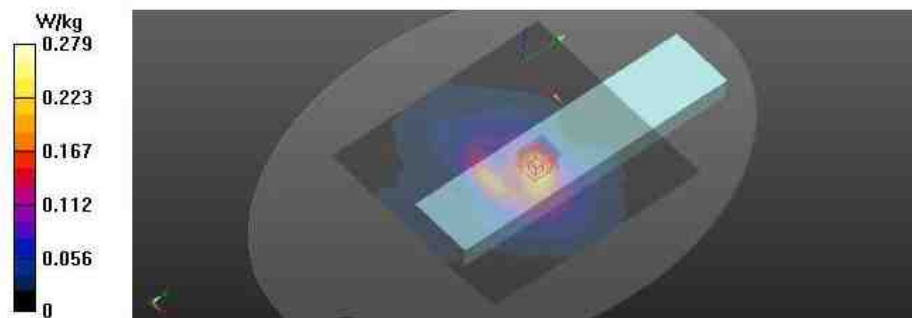
Peak SAR (extrapolated) = 0.313 W/kg

SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.123 W/kg

Smallest distance from peaks to all points 3 dB below = 22 mm

Ratio of SAR at M2 to SAR at M1 = 63.8%

Maximum value of SAR (measured) = 0.272 W/kg



Appendix B.31 Test Plots for Intra Band ULCA 66B

Date/Time: 2024-12-18 13:09:15

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE66 Ant1 Front PCC 10MHz 1@49 QPSK CH132373#SCC 10MHz 1@0 QPSK CH132472.da53.0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, LTE Band 66 (0); Frequency: 1750.1 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1750.1$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 41.823$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.64, 8.22, 8.75) @ 1750.1 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE66

[Ant1_Front_PCC_10MHz_1@49_QPSK_CH132373#SCC_10MHz_1@0_QPSK_CH132472/Area Scan \(161x181x1\)](#); Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.373 W/kg

Body/LTE66

[Ant1_Front_PCC_10MHz_1@49_QPSK_CH132373#SCC_10MHz_1@0_QPSK_CH132472/Zoom](#)

[Scan \(5x5x7\)/Cube 0](#); Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.08 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.405 W/kg

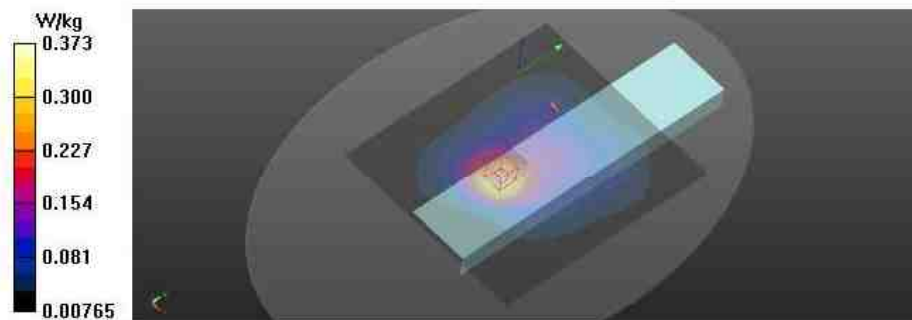
SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.201 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 71.5%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.367 W/kg



Appendix B.32 Test Plots for Intra Band ULCA 66C

Date/Time: 2024-12-18 13:51:49

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: LTE66 Ant1 Front PCC 20MHz 1@99 QPSK CH132397#SCC 5MHz 1@0 QPSK CH132514.da53.0

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

Communication System: UID 0, LTE Band 66 (0); Frequency: 1752.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1753 \text{ MHz}$; $\sigma = 1.381 \text{ S/m}$; $\epsilon_r = 41.833$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.64, 8.22, 8.75) @ 1752.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE66

Ant1_Front_PCC_20MHz_1@99_QPSK_CH132397#SCC_5MHz_1@0_QPSK_CH132514/Area

Scan (161x181x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.344 W/kg

Body/LTE66

Ant1_Front_PCC_20MHz_1@99_QPSK_CH132397#SCC_5MHz_1@0_QPSK_CH132514/Zoom

Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.46 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.385 W/kg

SAR(1 g) = 0.273 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 = 70.6%

Maximum value of SAR (measured) = 0.348 W/kg

