

Appendix A Verification Plots

Appendix A.1 Verification Plots for Verification 3500MHz

Date/Time: 2025-01-10 08:32:48

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 3500MHz 2025-01-10.da53:0](#)

Input Power : 100 mW

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

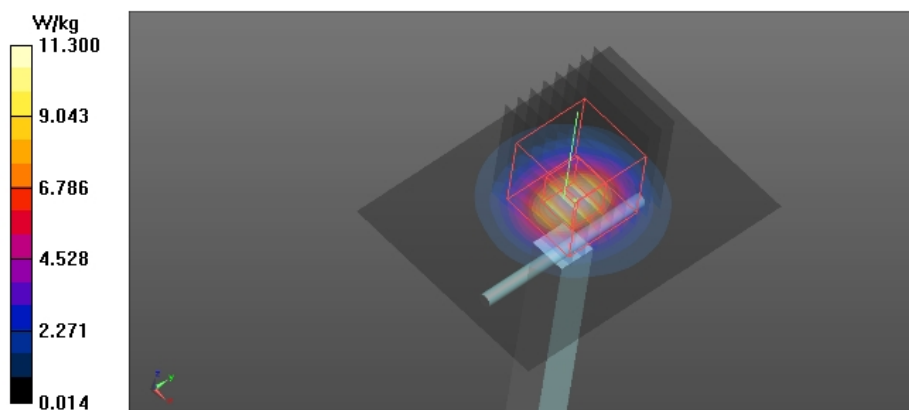
Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500$ MHz; $\sigma = 2.819$ S/m; $\epsilon_r = 38.958$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.98, 6.6, 6.8) @ 3500 MHz; Calibrated: 2024-03-18
- 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 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 11.3 W/kg

Verification/3500MHz Verification/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 65.95 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 6.37 W/kg; SAR(10 g) = 2.47 W/kg
Smallest distance from peaks to all points 3 dB below = 9.1 mm
Ratio of SAR at M2 to SAR at M1 = 72.9%
Maximum value of SAR (measured) = 12.1 W/kg



Date/Time: 2025-01-16 14:13:16

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 3500MHz 2025-01-16.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: $f = 3500$ MHz; $\sigma = 2.947$ S/m; $\epsilon_r = 37.77$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.98, 6.6, 6.8) @ 3500 MHz; Calibrated: 2024-03-18
- 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 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 12.6 W/kg

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

Reference Value = 69.36 V/m; Power Drift = -0.07 dB

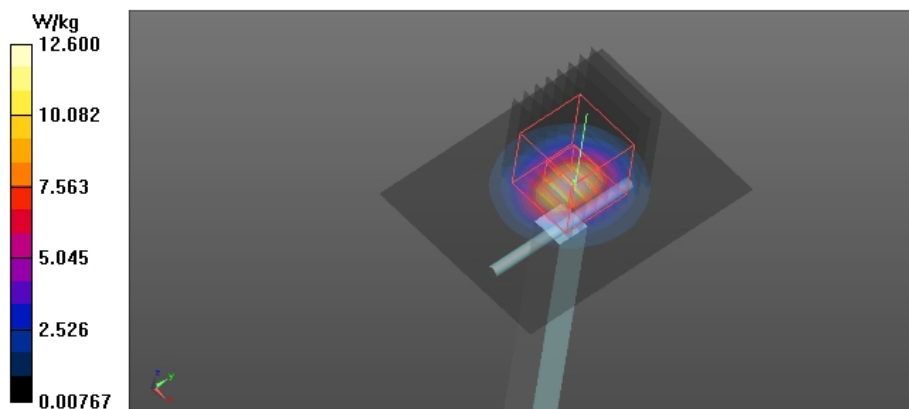
Peak SAR (extrapolated) = 17.4 W/kg

SAR(1 g) = 6.29 W/kg; SAR(10 g) = 2.36 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 74.1%

Maximum value of SAR (measured) = 12.1 W/kg



Date/Time: 2025-01-17 08:35:12

Test Laboratory : SGS Korea (Gunpo Laboratory)
 File Name: [Verification 3500MHz 2025-01-17.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: $f = 3500 \text{ MHz}$; $\sigma = 2.881 \text{ S/m}$; $\epsilon_r = 36.886$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.98, 6.6, 6.8) @ 3500 MHz; Calibrated: 2024-03-18
- 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) = 11.8 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 = 70.71 V/m; Power Drift = -0.08 dB

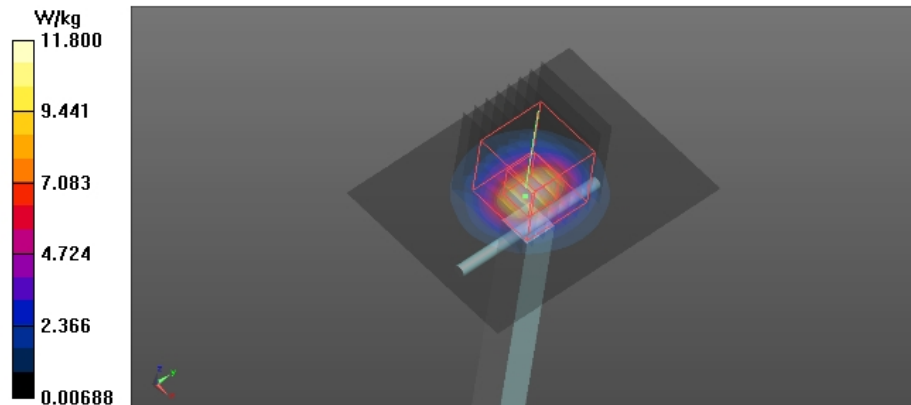
Peak SAR (extrapolated) = 17.4 W/kg

SAR(1 g) = 6.3 W/kg; SAR(10 g) = 2.35 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

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

Maximum value of SAR (measured) = 12.4 W/kg



Appendix A.2 Verification Plots for Verification 3700MHz

Date/Time: 2025-01-06 11:07:20

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 3700MHz 2025-01-06.da53:0](#)

Input Power : 100 mW

DUT: Dipole 3700 MHz D3700V2; Type: D3700V2; Serial: D3700V2 - SN:1005

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3700$ MHz; $\sigma = 3.087$ S/m; $\epsilon_r = 36.693$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.84, 6.46, 6.66) @ 3700 MHz; Calibrated: 2024-03-18
- 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/3700MHz Verification/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 14.2 W/kg

Verification/3700MHz Verification/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 53.50 V/m; Power Drift = 0.16 dB

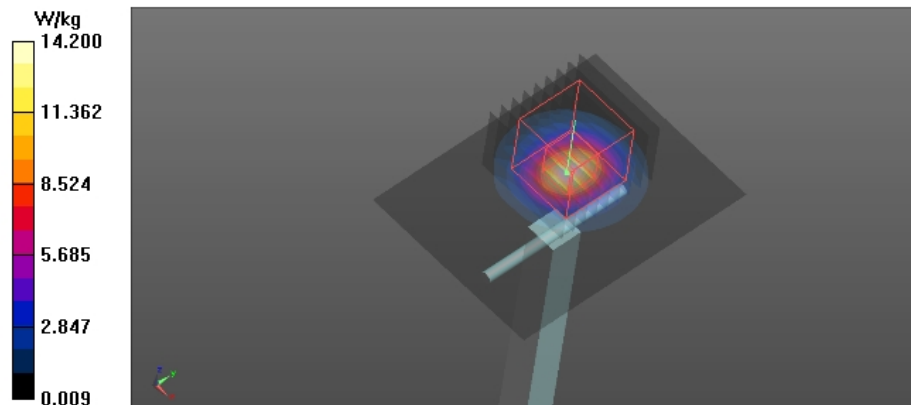
Peak SAR (extrapolated) = 19.7 W/kg

SAR(1 g) = 6.91 W/kg; SAR(10 g) = 2.5 W/kg

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

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

Maximum value of SAR (measured) = 14.1 W/kg



Date/Time: 2025-01-20 08:57:16

Test Laboratory : SGS Korea (Gunpo Laboratory)
 File Name: [Verification 3700MHz 2025-01-20.da53:0](#)

Input Power : 100 mW

DUT: Dipole 3700 MHz D3700V2; Type: D3700V2; Serial: D3700V2 - SN:1005

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3700$ MHz; $\sigma = 3.056$ S/m; $\epsilon_r = 38.111$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.84, 6.46, 6.66) @ 3700 MHz; Calibrated: 2024-03-18
- 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/3700MHz Verification/Area Scan (61x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
 Maximum value of SAR (interpolated) = 14.5 W/kg

Verification/3700MHz Verification/Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 70.42 V/m; Power Drift = -0.02 dB

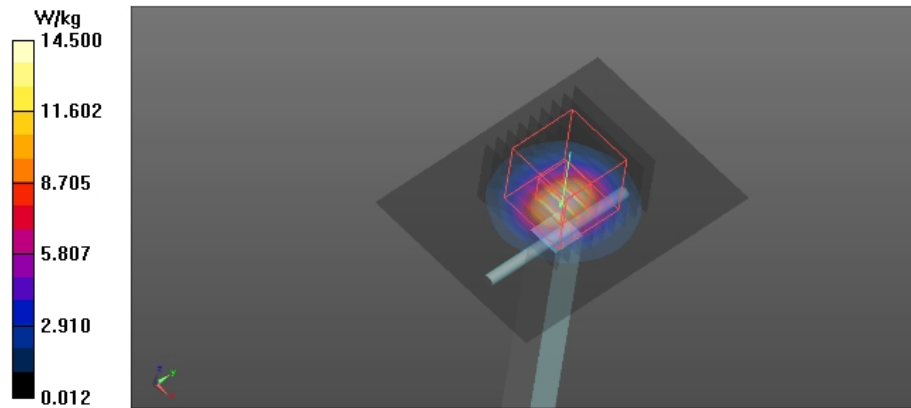
Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 6.56 W/kg; SAR(10 g) = 2.37 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

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

Maximum value of SAR (measured) = 13.4 W/kg



Appendix A.3 Verification Plots for Verification 3900MHz

Date/Time: 2025-01-07 09:54:46

Test Laboratory : SGS Korea (Gunpo Laboratory)
 File Name: [Verification 3900MHz 2025-01-07.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: $f = 3900 \text{ MHz}$; $\sigma = 3.483 \text{ S/m}$; $\epsilon_r = 37.228$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.77, 6.4, 6.6) @ 3900 MHz; Calibrated: 2024-03-18
- 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) = 15.1 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 = 60.18 V/m; Power Drift = 0.13 dB

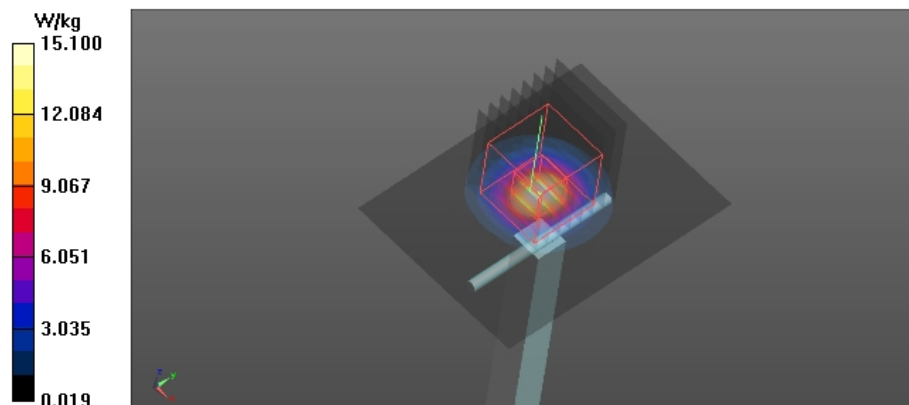
Peak SAR (extrapolated) = 19.5 W/kg

SAR(1 g) = 6.54 W/kg; SAR(10 g) = 2.27 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 72.4%

Maximum value of SAR (measured) = 13.0 W/kg



Date/Time: 2025-01-21 08:19:25

Test Laboratory : SGS Korea (Gunpo Laboratory)
 File Name: [Verification 3900MHz 2025-01-21.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: $f = 3900 \text{ MHz}$; $\sigma = 3.278 \text{ S/m}$; $\epsilon_r = 37.646$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.77, 6.4, 6.6) @ 3900 MHz; Calibrated: 2024-03-18
- 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) = 14.9 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 = 70.21 V/m; Power Drift = -0.17 dB

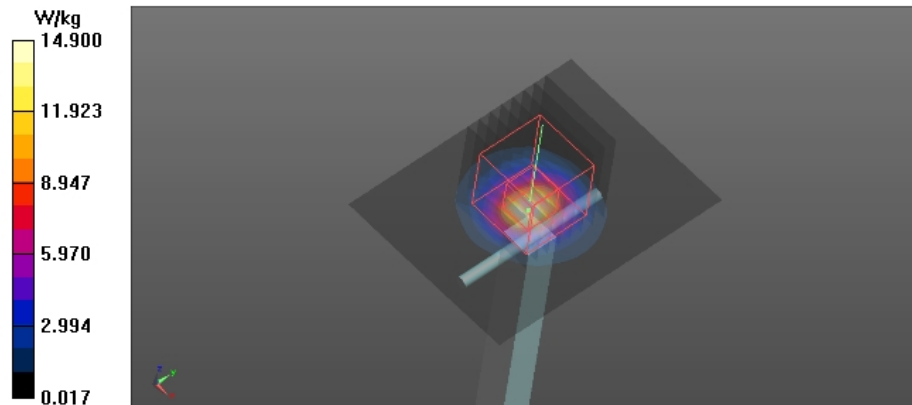
Peak SAR (extrapolated) = 20.2 W/kg

SAR(1 g) = 6.62 W/kg; SAR(10 g) = 2.25 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

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

Maximum value of SAR (measured) = 13.6 W/kg



Appendix B Test Plots

Appendix B.1 Test Plots for 5GNRn48 Cellular Ant1+2

Date/Time: 2025-01-06 16:56:19

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn48 Cellular Ant1+2_Right Edge_30kHz_40MHz_53@26_CP_QPSK_CH641666.da53:0](#)

DUT: TFBMEIBN3EU; Type: Telematics device; Serial: 355353850006970

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3624.99 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3625$ MHz; $\sigma = 3.017$ S/m; $\epsilon_r = 36.859$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.84, 6.46, 6.66) @ 3624.99 MHz; Calibrated: 2024-03-18
- 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/5GNRn48 Cellular Ant1+2_Right Edge_30kHz_40MHz_53@26_CP_QPSK_CH641666/Area

Scan (231x351x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0444 W/kg

Body/5GNRn48 Cellular Ant1+2_Right Edge_30kHz_40MHz_53@26_CP_QPSK_CH641666/Zoom

Scan (9x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.614 V/m; Power Drift = -0.01 dB

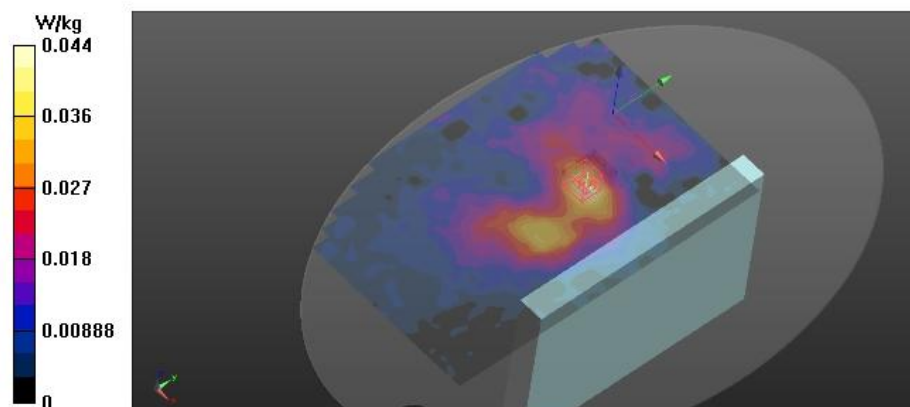
Peak SAR (extrapolated) = 0.0650 W/kg

SAR(1 g) = 0.025 W/kg; SAR(10 g) = 0.012 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 = 71.9%

Maximum value of SAR (measured) = 0.0449 W/kg



Appendix B.2 Test Plots for 5GNRn77 Cellular Ant1+2

Date/Time: 2025-01-07 15:42:58

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 Cellular Ant1+2 Right Edge 30kHz 100MHz 1@1 CP QPSK CH656000.da53:0](#)

DUT: TFBMEIBN3EU; Type: Telematics device; Serial: 355353850006970

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

Medium parameters used: $f = 3840$ MHz; $\sigma = 3.415$ S/m; $\epsilon_r = 37.343$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.77, 6.4, 6.6) @ 3840 MHz; Calibrated: 2024-03-18
- 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 Cellular Ant1+2_Right Edge_30kHz_100MHz_1@1_CP_QPSK_CH656000/Area Scan (221x251x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.102 W/kg

Body/5GNRn77 Cellular Ant1+2_Right Edge_30kHz_100MHz_1@1_CP_QPSK_CH656000/Zoom Scan (10x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.220 V/m; Power Drift = 0.14 dB

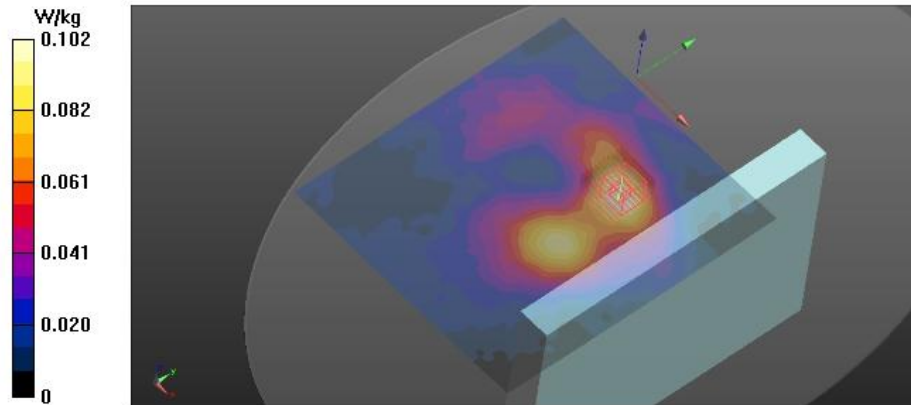
Peak SAR (extrapolated) = 0.154 W/kg

SAR(1 g) = 0.060 W/kg; SAR(10 g) = 0.030 W/kg

Smallest distance from peaks to all points 3 dB below = 24.5 mm

Ratio of SAR at M2 to SAR at M1 = 72.3%

Maximum value of SAR (measured) = 0.105 W/kg



Appendix B.3 Test Plots for 5GNRn77 Diversity Cellular Ant1+2

Date/Time: 2025-01-21 14:59:33

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 Diversity Cellular Ant1+2 Right Edge 30kHz 100MHz 1@1 DFT QPSK CH656000.da53:0](#)

DUT: TFBMEIBN3EU; Type: Telematics device; Serial: 355353850006970

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

Medium parameters used: $f = 3840$ MHz; $\sigma = 3.215$ S/m; $\epsilon_r = 37.742$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.77, 6.4, 6.6) @ 3840 MHz; Calibrated: 2024-03-18
- 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 Diversity Cellular Ant1+2_Right

Edge_30kHz_100MHz_1@1_DFT_QPSK_CH656000/Area Scan (211x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.125 W/kg

Body/5GNRn77 Diversity Cellular Ant1+2_Right

Edge_30kHz_100MHz_1@1_DFT_QPSK_CH656000/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 6.393 V/m; Power Drift = 0.13 dB

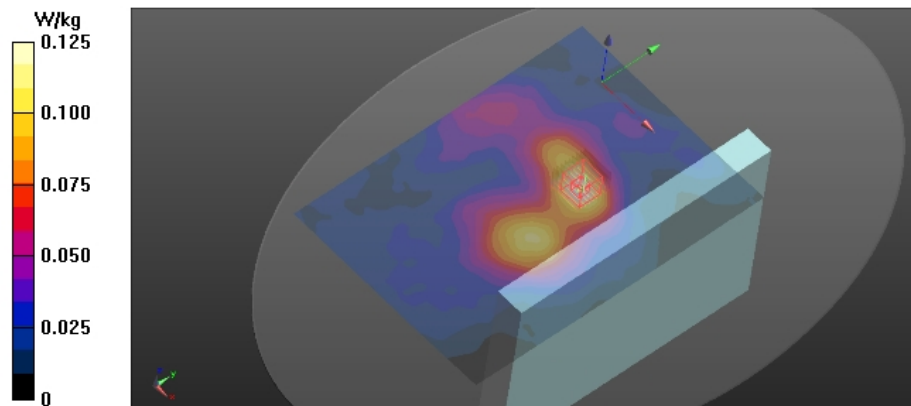
Peak SAR (extrapolated) = 0.174 W/kg

SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.035 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) = 0.124 W/kg



Appendix B.4 Test Plots for 5GNRn77 DoD Cellular Ant1+2

Date/Time: 2025-01-10 15:10:12

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 DoD Cellular Ant1+2 Right Edge 30kHz 100MHz 1@1 CP QPSK CH633334.da53:0](#)
DUT: TFBMEIBN3EU; Type: Telematics device; Serial: 355353850006970

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; $\sigma = 2.819$ S/m; $\epsilon_r = 38.958$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.98, 6.6, 6.8) @ 3500.01 MHz; Calibrated: 2024-03-18
- 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 Cellular Ant1+2_Right
Edge_30kHz_100MHz_1@1_CP_QPSK_CH633334/Area Scan (201x281x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0414 W/kg

Body/5GNRn77 DoD Cellular Ant1+2_Right
Edge_30kHz_100MHz_1@1_CP_QPSK_CH633334/Zoom Scan (10x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 3.338 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.0630 W/kg

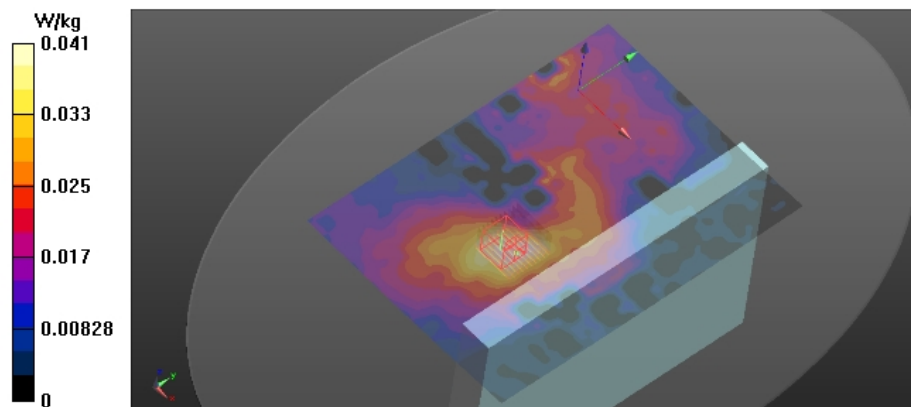
SAR(1 g) = 0.024 W/kg; SAR(10 g) = 0.012 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 74.1%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0415 W/kg



Appendix B.5 Test Plots for 5GNRn77 Diversity DoD Cellular Ant1+2

Date/Time: 2025-01-17 18:27:30

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: 5GNRn77 Diversity DoD Cellular Ant1+2_Right
Edge_30kHz_100MHz_135@67_DFT_QPSK_CH633334.da53:0

DUT: TFBMEIBN3EU; Type: Telematics device; Serial: 355353850006970

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; $\sigma = 2.881$ S/m; $\epsilon_r = 36.886$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.98, 6.6, 6.8) @ 3500.01 MHz; Calibrated: 2024-03-18
- 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 Diversity DoD Cellular Ant1+2_Right

Edge_30kHz_100MHz_135@67_DFT_QPSK_CH633334/Area Scan (171x261x1): Interpolated grid
dx=1.000 mm, dy=1.000 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0577 W/kg

Body/5GNRn77 Diversity DoD Cellular Ant1+2_Right

Edge_30kHz_100MHz_135@67_DFT_QPSK_CH633334/Zoom Scan (9x9x7)/Cube 0: Measurement grid

dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 3.221 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.0830 W/kg

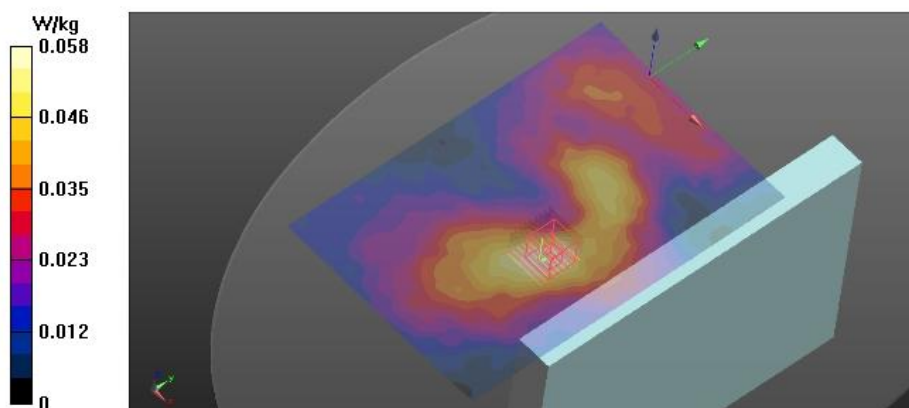
SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.017 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 74.6%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0576 W/kg



Appendix B.6 Test Plots for 5GNRn78 Cellular Ant1+2

Date/Time: 2025-01-20 19:53:39

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn78 Cellular Ant1+2 Right Edge 30kHz 100MHz 135@68 CP QPSK CH650000.da53:0

DUT: TFBMEIBN3EU; Type: Telematics device; Serial: 355353850006970

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3750$ MHz; $\sigma = 3.101$ S/m; $\epsilon_r = 37.927$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.84, 6.46, 6.66) @ 3750 MHz; Calibrated: 2024-03-18
- 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/5GNRn78 Cellular Ant1+2_Right

Edge_30kHz_100MHz_135@68_CP_QPSK_CH650000/Area Scan (231x321x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0784 W/kg

Body/5GNRn78 Cellular Ant1+2_Right

Edge_30kHz_100MHz_135@68_CP_QPSK_CH650000/Zoom Scan (10x10x7)/Cube 0: Measurement

grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.807 V/m; Power Drift = -0.12 dB

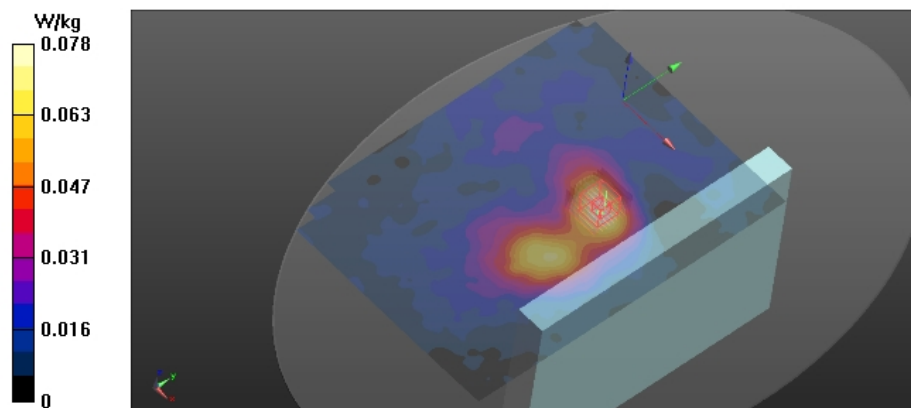
Peak SAR (extrapolated) = 0.116 W/kg

SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.023 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) = 0.0800 W/kg



Appendix B.7 Test Plots for 5GNRn78 DoD Cellular Ant1+2

Date/Time: 2025-01-17 13:44:51

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn78 DoD Cellular Ant1+2_Right Edge_30kHz_100MHz_135@68_CP_QPSK_CH633340.da53:0](#)
DUT: TFBMEIBN3EU; Type: Telematics device; Serial: 355353850006970

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; $\sigma = 2.881$ S/m; $\epsilon_r = 36.886$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7412; ConvF(6.98, 6.6, 6.8) @ 3500.01 MHz; Calibrated: 2024-03-18
- 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/5GNRn78 DoD Cellular Ant1+2_Right
Edge_30kHz_100MHz_135@68_CP_QPSK_CH633340/Area Scan (201x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0417 W/kg

Body/5GNRn78 DoD Cellular Ant1+2_Right
Edge_30kHz_100MHz_135@68_CP_QPSK_CH633340/Zoom Scan (10x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 3.780 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.0650 W/kg

SAR(1 g) = 0.023 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 = 70.3%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0420 W/kg

