

Date/Time: 2014-11-10 AM 9:43:22

Test Laboratory: KES Co., Ltd.

System verification_450_HSL

DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1084

Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.854 \text{ mho/m}$; $\epsilon_r = 44.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3315; ConvF(7.23, 7.23, 7.23); Calibrated: 2014-05-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn479; Calibrated: 2014-10-15
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Flat-Section_HSL_450/Area Scan (41x201x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.25 mW/g

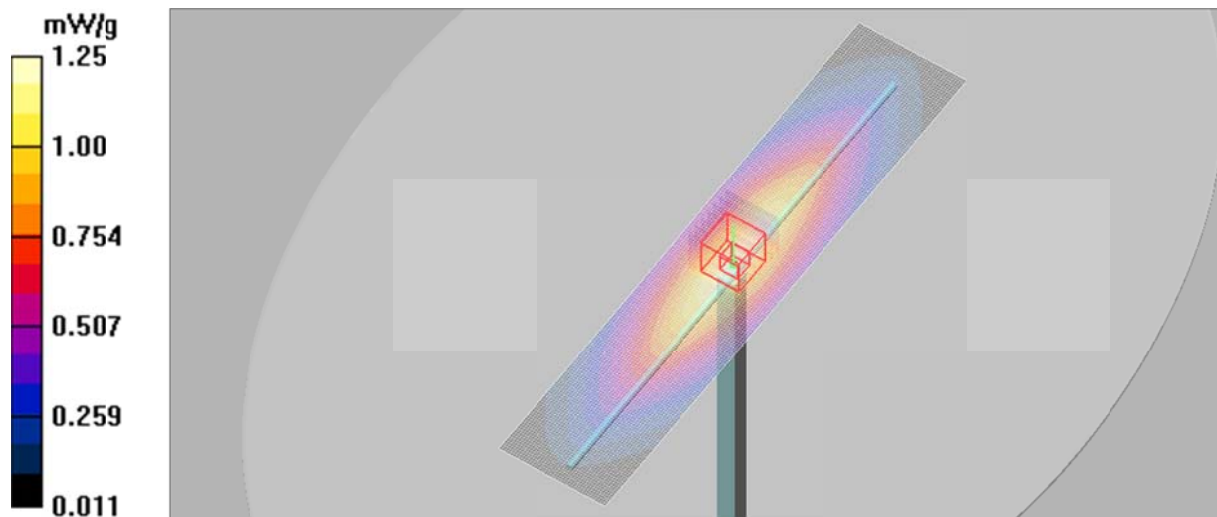
Flat-Section_HSL_450/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 39.0 V/m ; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 1.2 mW/g ; SAR(10 g) = 0.850 mW/g

Maximum value of SAR (measured) = 1.27 mW/g



Date/Time: 2014-11-12 AM 10:32:17

Test Laboratory: KES Co., Ltd.

System verification_450_MSL

DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1084

Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1782; ConvF(7.15, 7.15, 7.15); Calibrated: 2014-03-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn479; Calibrated: 2014-10-15
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Flat-Section_MSL_450/Area Scan (41x201x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.29 mW/g

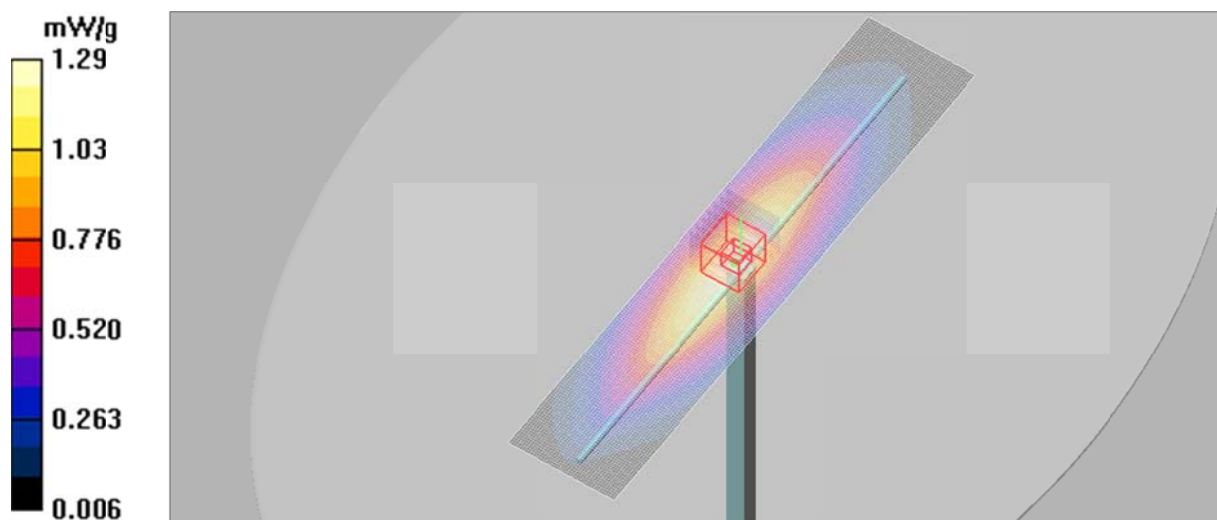
Flat-Section_MSL_450/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 38.0 V/m ; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.21 mW/g ; SAR(10 g) = 0.811 mW/g

Maximum value of SAR (measured) = 1.29 mW/g



#1

Date/Time: 2014-11-10 PM 2:40:13

Test Laboratory: KES Co., Ltd.

Face_GMRS_Analog_25mm Gap_462.6375

DUT: T55; Type: Bar; Serial: N/A

Communication System: CW; Frequency: 462.637 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 462.637$ MHz; $\sigma = 0.873$ mho/m; $\epsilon_r = 43.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3315; ConvF(7.23, 7.23, 7.23); Calibrated: 2014-05-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn479; Calibrated: 2014-10-15
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Face_GMRS_Analog_25mm Gap_462.6375/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.344 mW/g

Face_GMRS_Analog_25mm Gap_462.6375/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

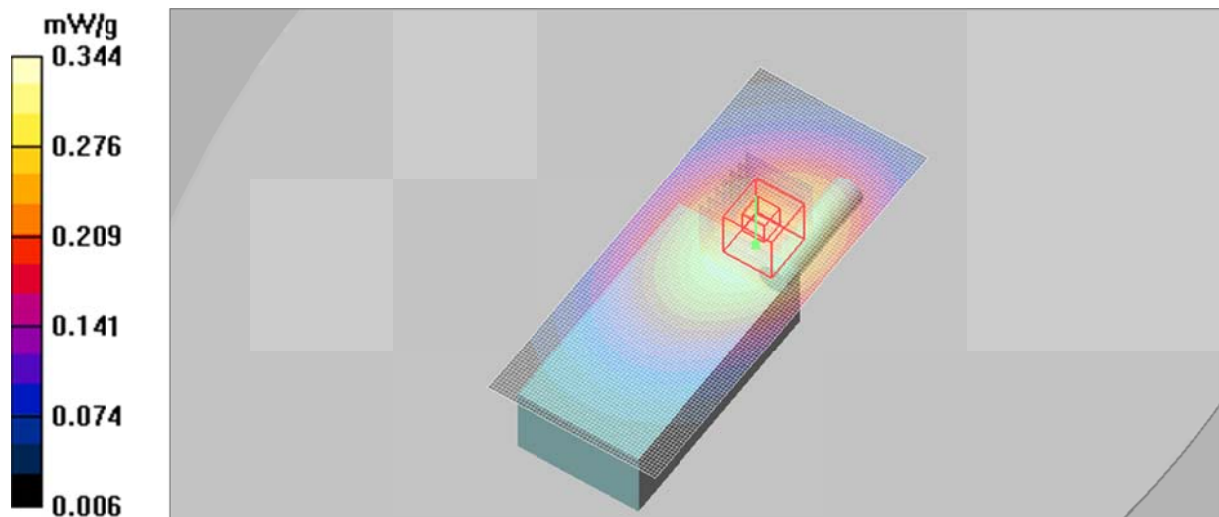
Reference Value = 19.6 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.257 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.338 mW/g



#2

Date/Time: 2014-11-10 AM 11:39:50

Test Laboratory: KES Co., Ltd.

Face_FRS_Analog_25mm Gap_467.6375

DUT: T55; Type: Bar; Serial: N/A

Communication System: CW; Frequency: 467.637 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 467.637$ MHz; $\sigma = 0.881$ mho/m; $\epsilon_r = 43.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3315; ConvF(7.23, 7.23, 7.23); Calibrated: 2014-05-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn479; Calibrated: 2014-10-15
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Face_FRS_Analog_25mm Gap_467.6375/Area Scan (51x121x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.374 mW/g

Face_FRS_Analog_25mm Gap_467.6375/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

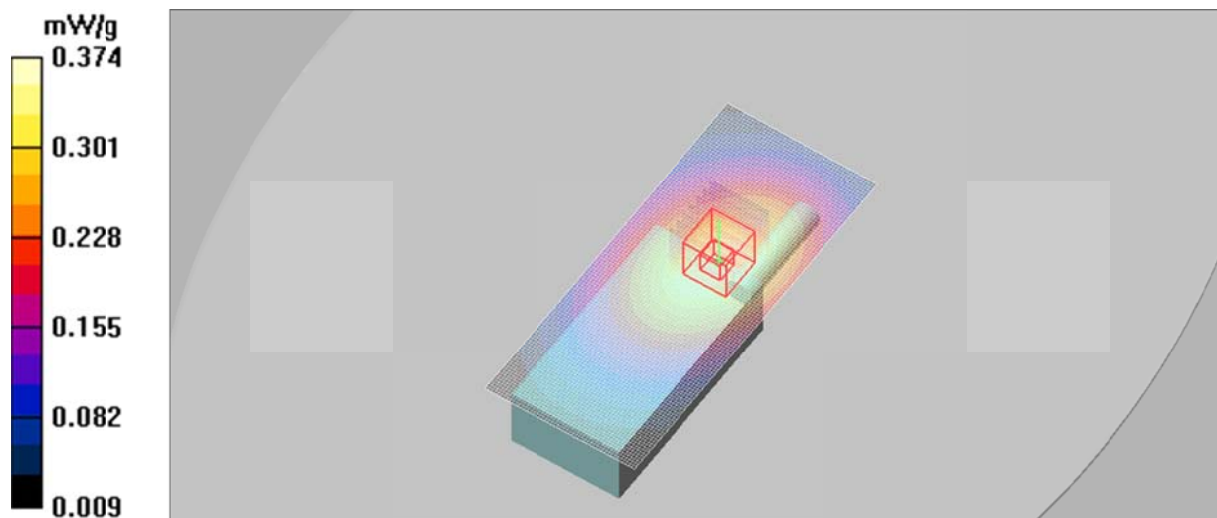
Reference Value = 20.5 V/m; Power Drift = 0.138 dB

Peak SAR (extrapolated) = 0.468 W/kg

SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.270 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.368 mW/g



#3

Date/Time: 2014-11-12 PM 1:29:07

Test Laboratory: KES Co., Ltd.

Body_GMRS_Analog_Touch_462.6375

DUT: T55; Type: Bar; Serial: N/A

Communication System: CW; Frequency: 462.637 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 462.637$ MHz; $\sigma = 0.898$ mho/m; $\epsilon_r = 55.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1782; ConvF(7.15, 7.15, 7.15); Calibrated: 2014-03-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn479; Calibrated: 2014-10-15
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body_GMRS_Analog_Touch_462.6375/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.752 mW/g

Body_GMRS_Analog_Touch_462.6375/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

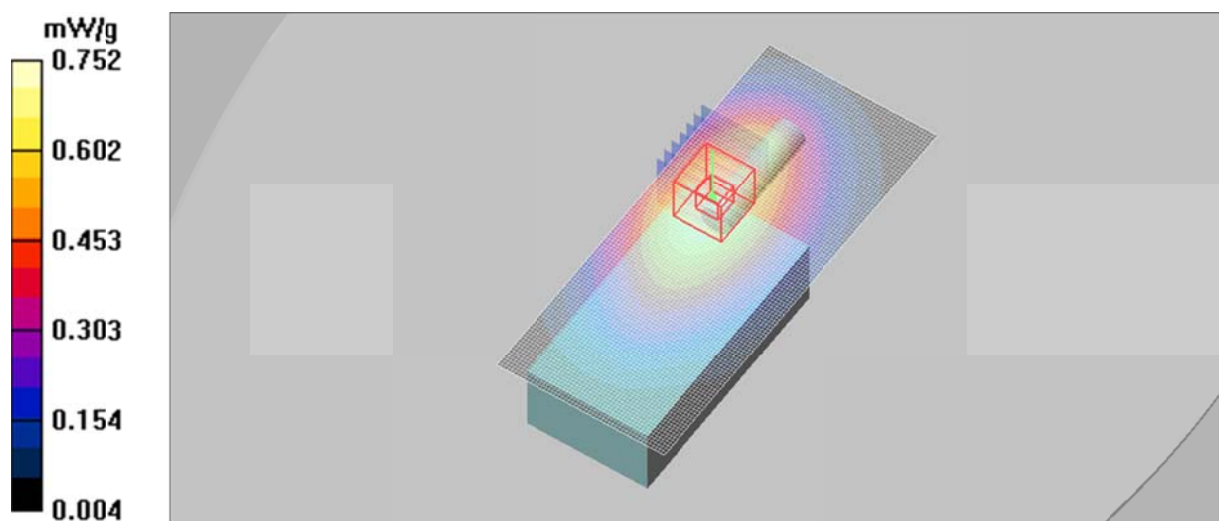
Reference Value = 27.8 V/m; Power Drift = 0.085 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.690 mW/g; SAR(10 g) = 0.490 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.727 mW/g



#4

Date/Time: 2014-11-12 AM 11:34:21

Test Laboratory: KES Co., Ltd.

Body_FRS_Analog_Touch_467.6375

DUT: T55; Type: Bar; Serial: N/A

Communication System: CW; Frequency: 467.637 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 467.637$ MHz; $\sigma = 0.887$ mho/m; $\epsilon_r = 55.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1782; ConvF(7.15, 7.15, 7.15); Calibrated: 2014-03-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn479; Calibrated: 2014-10-15
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body_FRS_Analog_Touch_467.6375/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.772 mW/g

Body_FRS_Analog_Touch_467.6375/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.9 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.718 mW/g; SAR(10 g) = 0.508 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.758 mW/g

