

Date/Time: 2015-07-14 AM 10:09:45

Test Laboratory: KES Co., Ltd.

## System verification\_450\_HSL

**DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1081**

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

Medium parameters used:  $f = 450 \text{ MHz}$ ;  $\sigma = 0.837 \text{ mho/m}$ ;  $\epsilon_r = 42.8$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3879; ConvF(9.98, 9.98, 9.98); Calibrated: 2014-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2014-11-12
- 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\_HSL\_450/Area Scan (5x21x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.11 mW/g

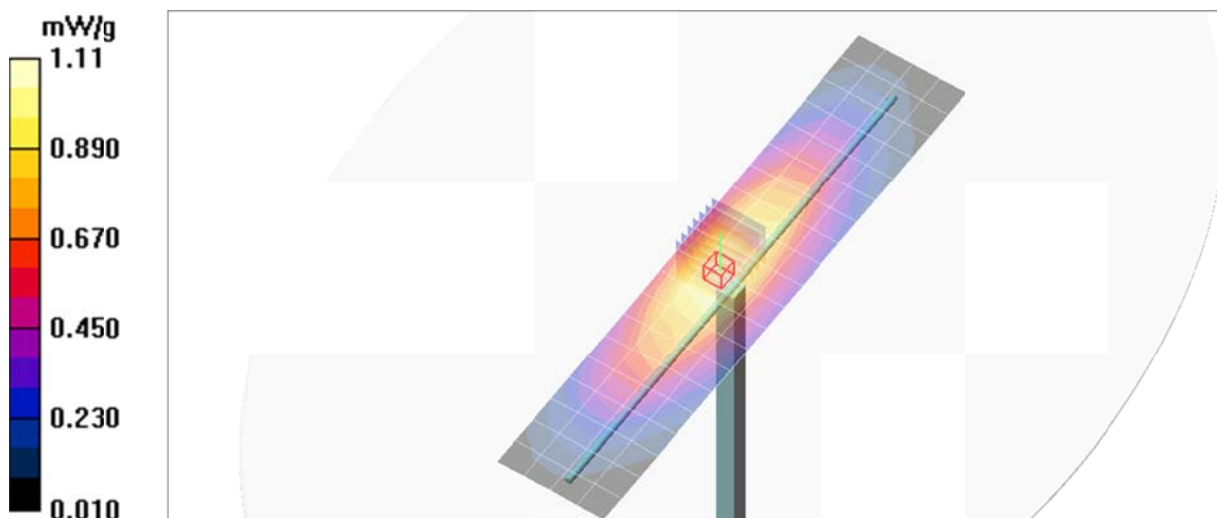
**Flat-Section\_HSL\_450/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 36.9 V/m; Power Drift = 0.153 dB

Peak SAR (extrapolated) = 1.81 W/kg

**SAR(1 g) = 1.19 mW/g**

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



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Test Laboratory: KES Co., Ltd.

## System verification\_450\_MSL

**DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1081**

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

Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.926$  mho/m;  $\epsilon_r = 58.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3879; ConvF(10.25, 10.25, 10.25); Calibrated: 2014-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2014-11-12
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.26 mW/g

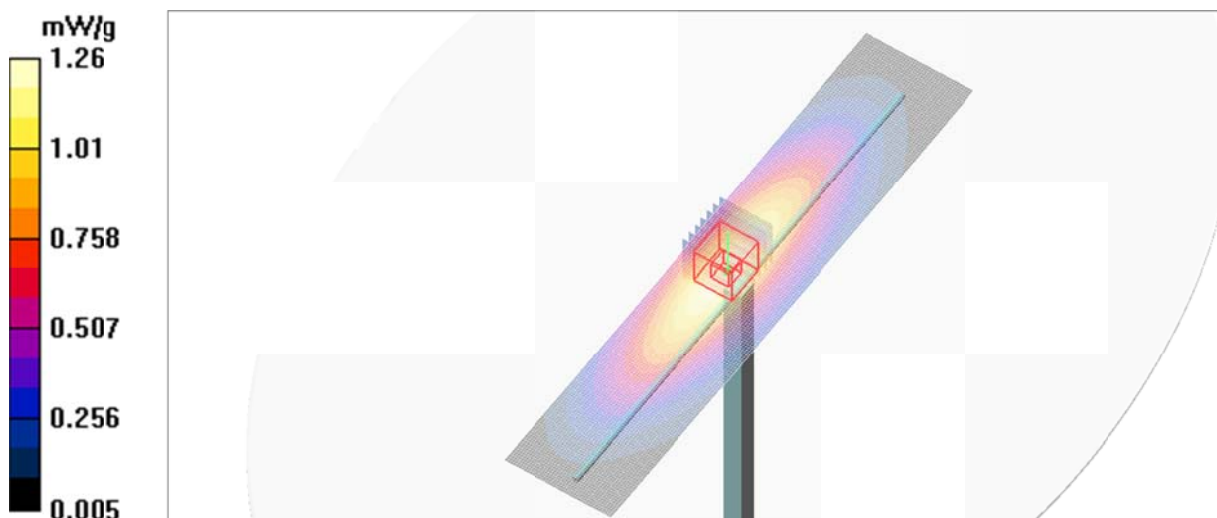
**Flat-Section\_MSL\_450/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36.2 V/m; Power Drift = -0.107 dB

Peak SAR (extrapolated) = 1.73 W/kg

**SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.825 mW/g**

Maximum value of SAR (measured) = 1.28 mW/g



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Test Laboratory: KES Co., Ltd.

### Face\_GMRS\_Analog\_25mm Gap\_462.6375

**DUT: T75A; Type: Bar; Serial: N/A**

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

Medium parameters used:  $f = 462.75$  MHz;  $\sigma = 0.856$  mho/m;  $\epsilon_r = 42.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3879; ConvF(9.98, 9.98, 9.98); Calibrated: 2014-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2014-11-12
- 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:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.546 mW/g

### Face\_GMRS\_Analog\_25mm Gap\_462.6375/Zoom Scan (7x7x7)/Cube 0:

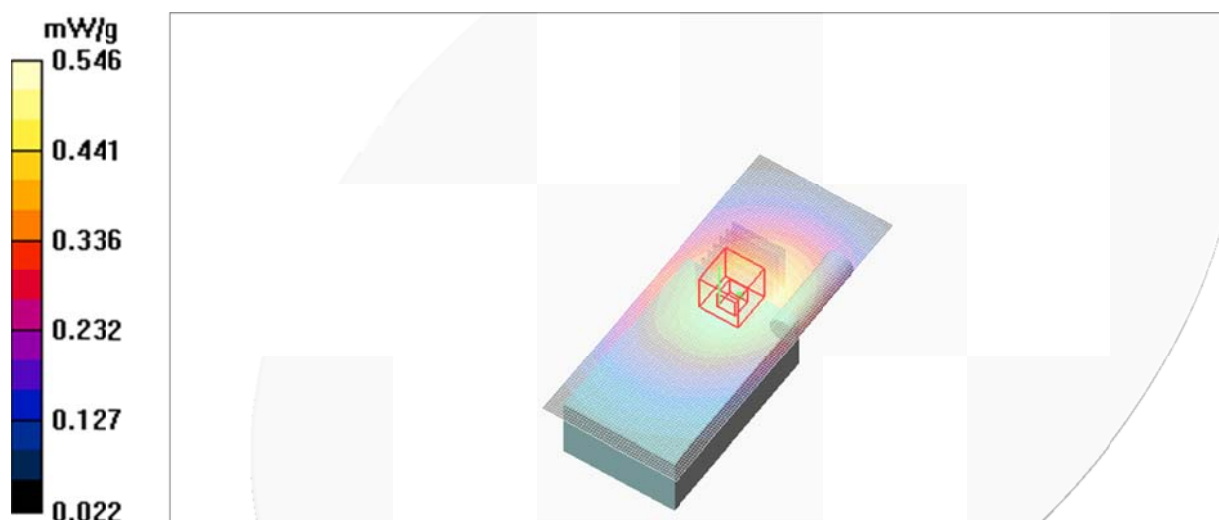
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 27.3 V/m; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 0.650 W/kg

**SAR(1 g) = 0.532 mW/g; SAR(10 g) = 0.426 mW/g**

Maximum value of SAR (measured) = 0.556 mW/g



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Test Laboratory: KES Co., Ltd.

**Face\_FRS\_Analog\_25mm Gap\_467.6375****DUT: T75A; Type: Bar; Serial: N/A**

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

Medium parameters used:  $f = 467.75$  MHz;  $\sigma = 0.86$  mho/m;  $\epsilon_r = 42.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3879; ConvF(9.98, 9.98, 9.98); Calibrated: 2014-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2014-11-12
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.226 mW/g

**Face\_FRS\_Analog\_25mm Gap\_467.6375/Zoom Scan (7x7x7)/Cube 0:**

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

Reference Value = 17.7 V/m; Power Drift = 0.110 dB

Peak SAR (extrapolated) = 0.263 W/kg

**SAR(1 g) = 0.217 mW/g; SAR(10 g) = 0.175 mW/g**

Maximum value of SAR (measured) = 0.225 mW/g



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Test Laboratory: KES Co., Ltd.

**Body\_GMRS\_Analog\_Touch\_462.6375****DUT: T75A; Type: Bar; Serial: N/A**

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

Medium parameters used:  $f = 462.75$  MHz;  $\sigma = 0.946$  mho/m;  $\epsilon_r = 58.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3879; ConvF(10.25, 10.25, 10.25); Calibrated: 2014-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2014-11-12
- 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

Maximum value of SAR (interpolated) = 0.957 mW/g

**Body\_GMRS\_Analog\_Touch\_462.6375/Zoom Scan (7x7x7)/Cube 0:**

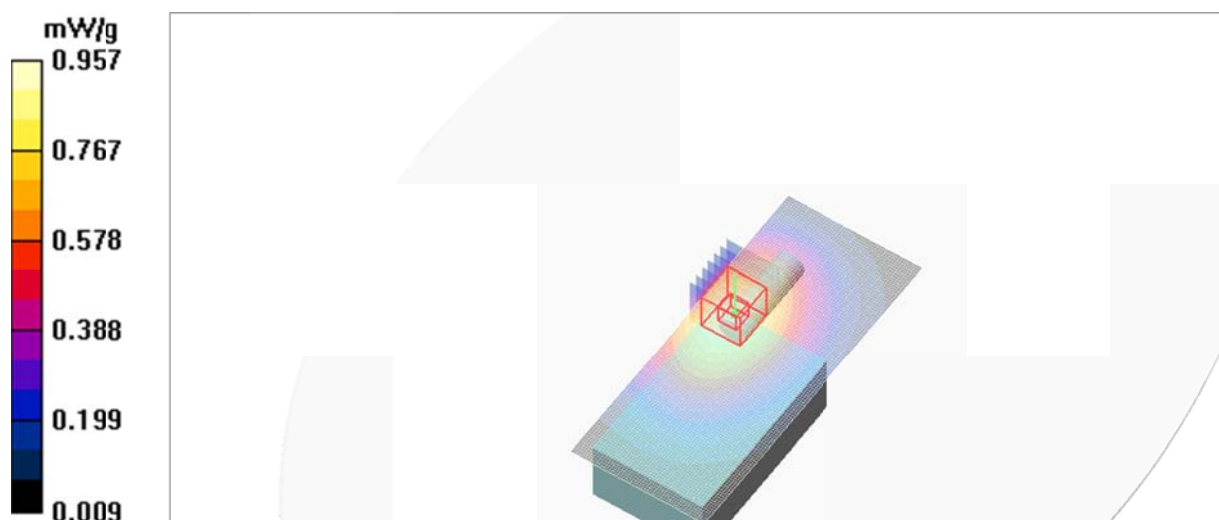
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 30.1 V/m; Power Drift = 0.107 dB

Peak SAR (extrapolated) = 1.11 W/kg

**SAR(1 g) = 0.851 mW/g; SAR(10 g) = 0.630 mW/g**

Maximum value of SAR (measured) = 0.897 mW/g



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Test Laboratory: KES Co., Ltd.

**Body\_FRS\_Analog\_Touch\_467.6375****DUT: T75A; Type: Bar; Serial: N/A**

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

Medium parameters used:  $f = 467.75$  MHz;  $\sigma = 0.942$  mho/m;  $\epsilon_r = 58.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3879; ConvF(10.25, 10.25, 10.25); Calibrated: 2014-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2014-11-12
- 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

Maximum value of SAR (interpolated) = 0.300 mW/g

**Body\_FRS\_Analog\_Touch\_467.6375/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = -0.187 dB

Peak SAR (extrapolated) = 0.360 W/kg

**SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.204 mW/g**

Maximum value of SAR (measured) = 0.291 mW/g

