

Test Laboratory: KES Co., Ltd.

System verification_2450_HSL

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:774

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 37.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(7.63, 7.63, 7.63); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASYS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Flat-Section_HSL_2450/Area Scan (81x81x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 21.1 mW/g

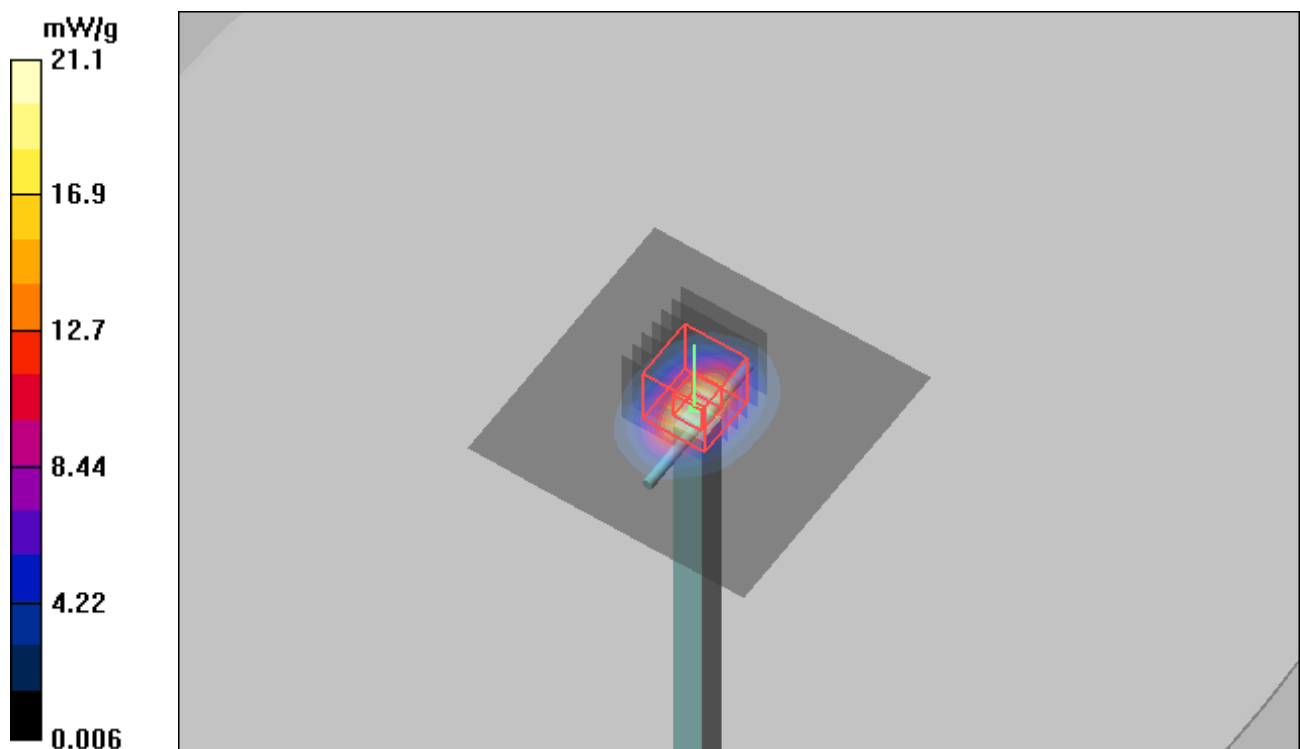
Flat-Section_HSL_2450/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.9 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 28.5 W/kg

SAR(1 g) = 13.3 mW/g; SAR(10 g) = 6.07 mW/g

Maximum value of SAR (measured) = 20.8 mW/g



Test Laboratory: KES Co., Ltd.

System verification_2450_MSL

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:774

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(7.59, 7.59, 7.59); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- 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_2450/Area Scan (81x81x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 18.9 mW/g

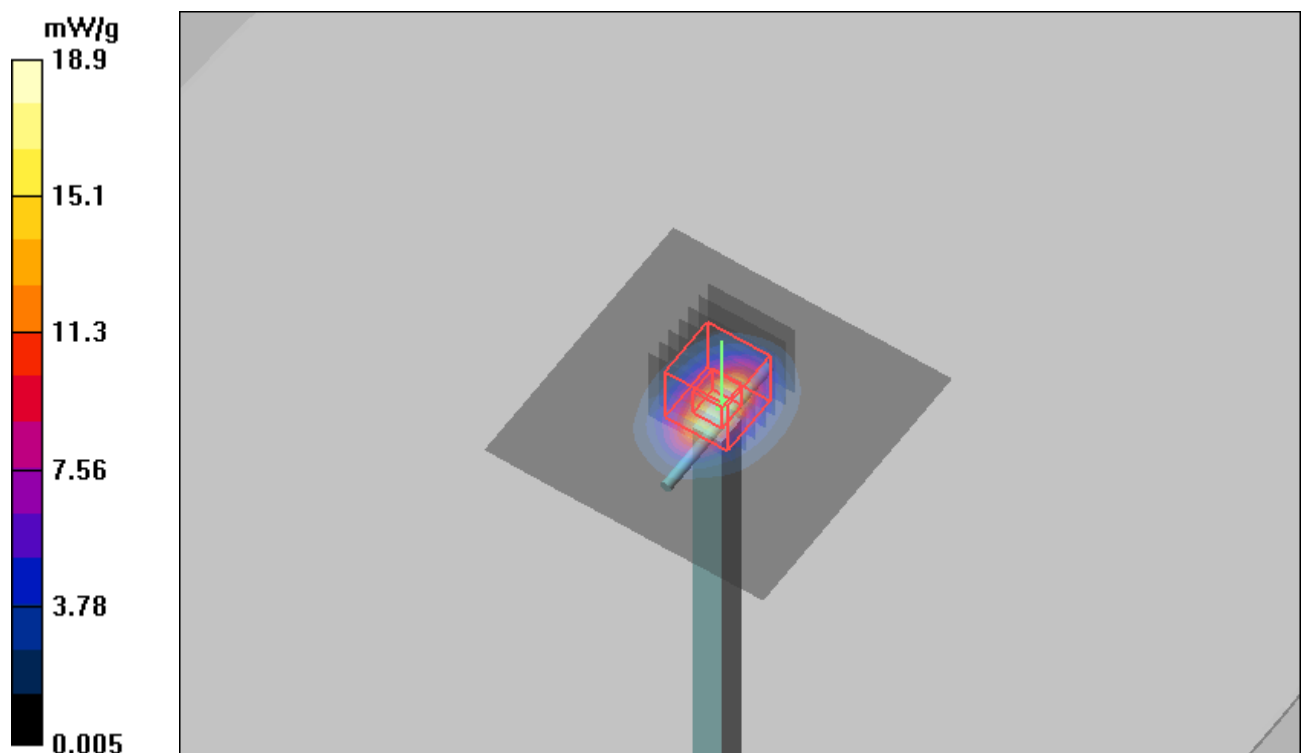
Flat-Section_MSL_2450/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.3 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 25.4 W/kg

SAR(1 g) = 12.2 mW/g; SAR(10 g) = 5.59 mW/g

Maximum value of SAR (measured) = 18.7 mW/g



Test Laboratory: KES Co., Ltd.

System verification_5200_HSL

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1130

Communication System: WLAN; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.82$ mho/m; $\epsilon_r = 36$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(5.49, 5.49, 5.49); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- 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_5200/Area Scan (51x51x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 17.7 mW/g

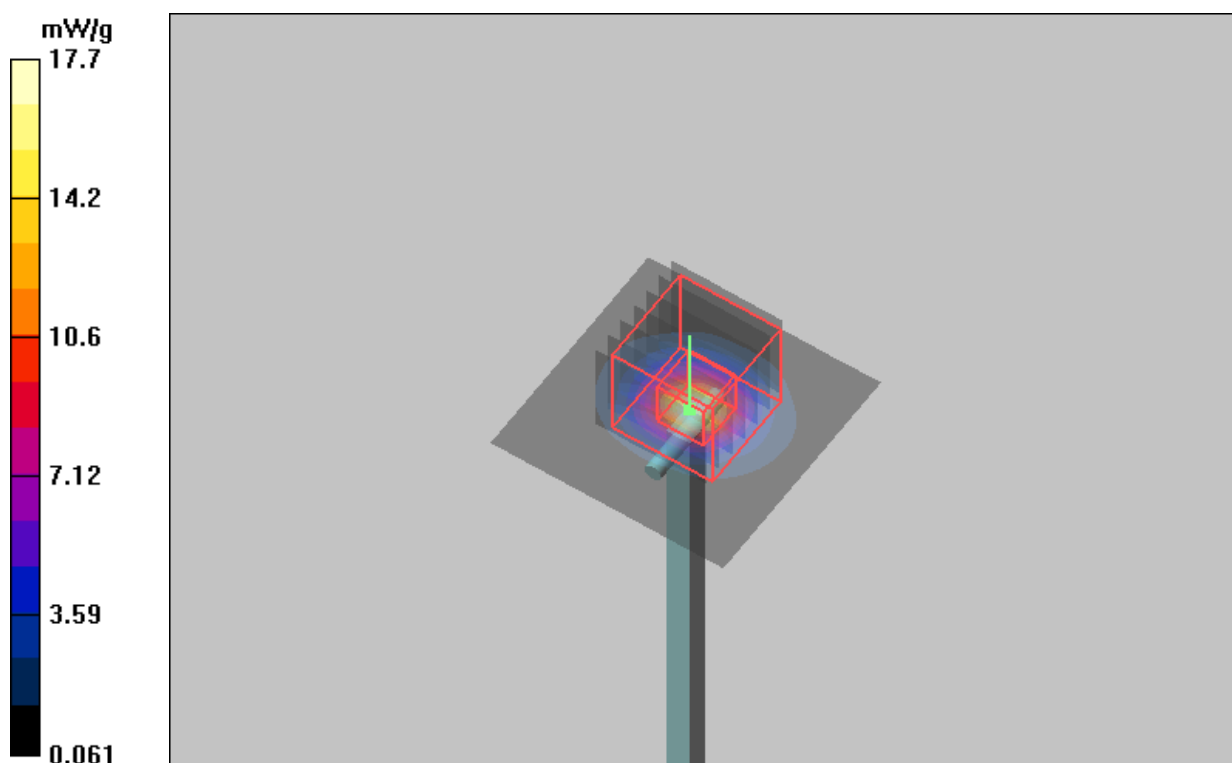
Flat-Section_HSL_5200/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.5 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 32.0 W/kg

SAR(1 g) = 7.75 mW/g; SAR(10 g) = 2.23 mW/g

Maximum value of SAR (measured) = 16.0 mW/g



Test Laboratory: KES Co., Ltd.

System verification_5200_MSL

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1130

Communication System: WLAN; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 5.37$ mho/m; $\epsilon_r = 48.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(4.88, 4.88, 4.88); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASYS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Flat-Section_MSL_5200/Area Scan (51x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 17.5 mW/g

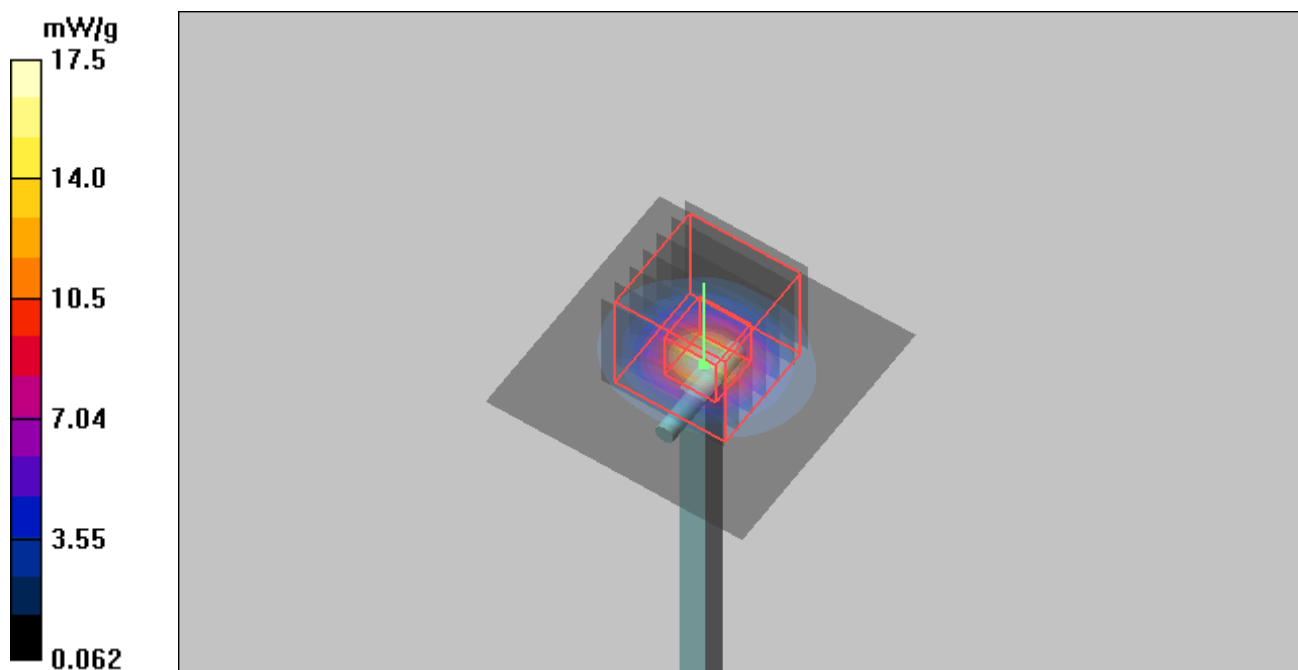
Flat-Section_MSL_5200/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.8 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 30.5 W/kg

SAR(1 g) = 7.69 mW/g; SAR(10 g) = 2.19 mW/g

Maximum value of SAR (measured) = 15.7 mW/g



Test Laboratory: KES Co., Ltd.

System verification_5800_HSL

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1130

Communication System: WLAN; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.38$ mho/m; $\epsilon_r = 33.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(4.82, 4.82, 4.82); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- 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_5800/Area Scan (51x51x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 18.0 mW/g

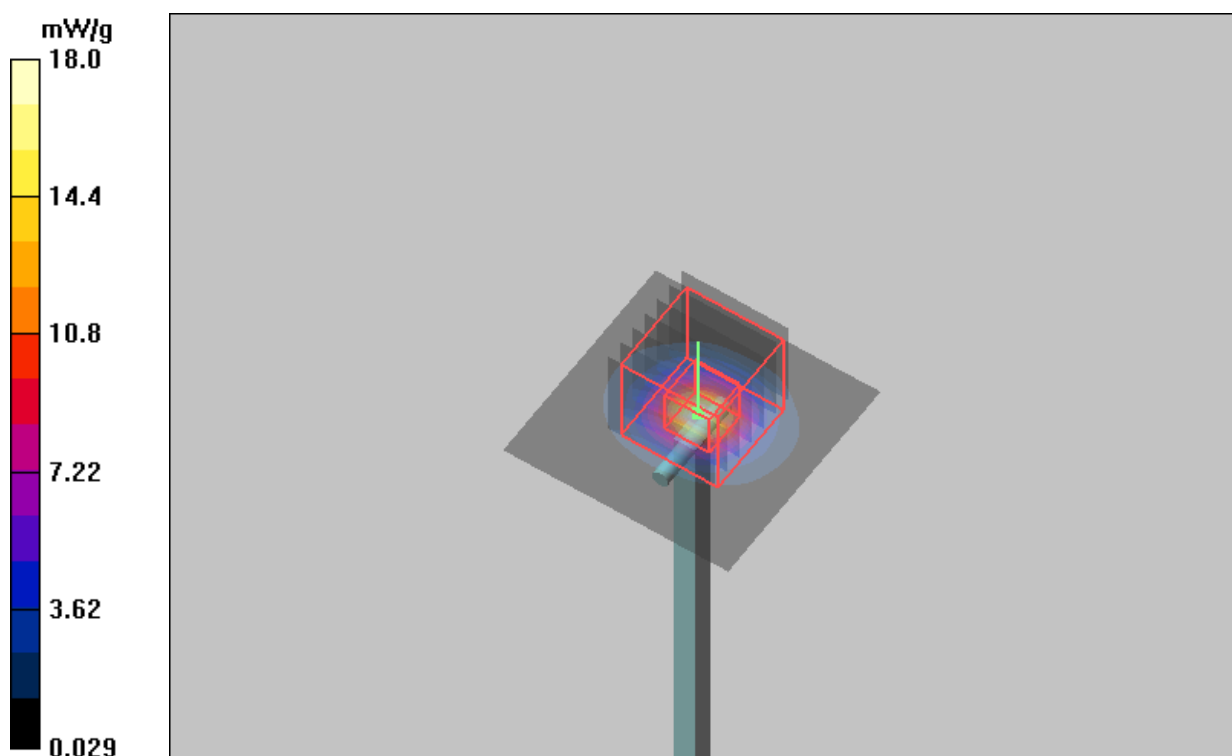
Flat-Section_HSL_5800/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.8 V/m; Power Drift = 0.058 dB

Peak SAR (extrapolated) = 35.3 W/kg

SAR(1 g) = 7.8 mW/g; SAR(10 g) = 2.23 mW/g

Maximum value of SAR (measured) = 16.7 mW/g



Test Laboratory: KES Co., Ltd.

System verification_5800_MSL

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1130

Communication System: WLAN; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5800$ MHz; $\sigma = 6.25$ mho/m; $\epsilon_r = 46.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(4.4, 4.4, 4.4); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASYS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Flat-Section_MSL_5800/Area Scan (51x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 15.5 mW/g

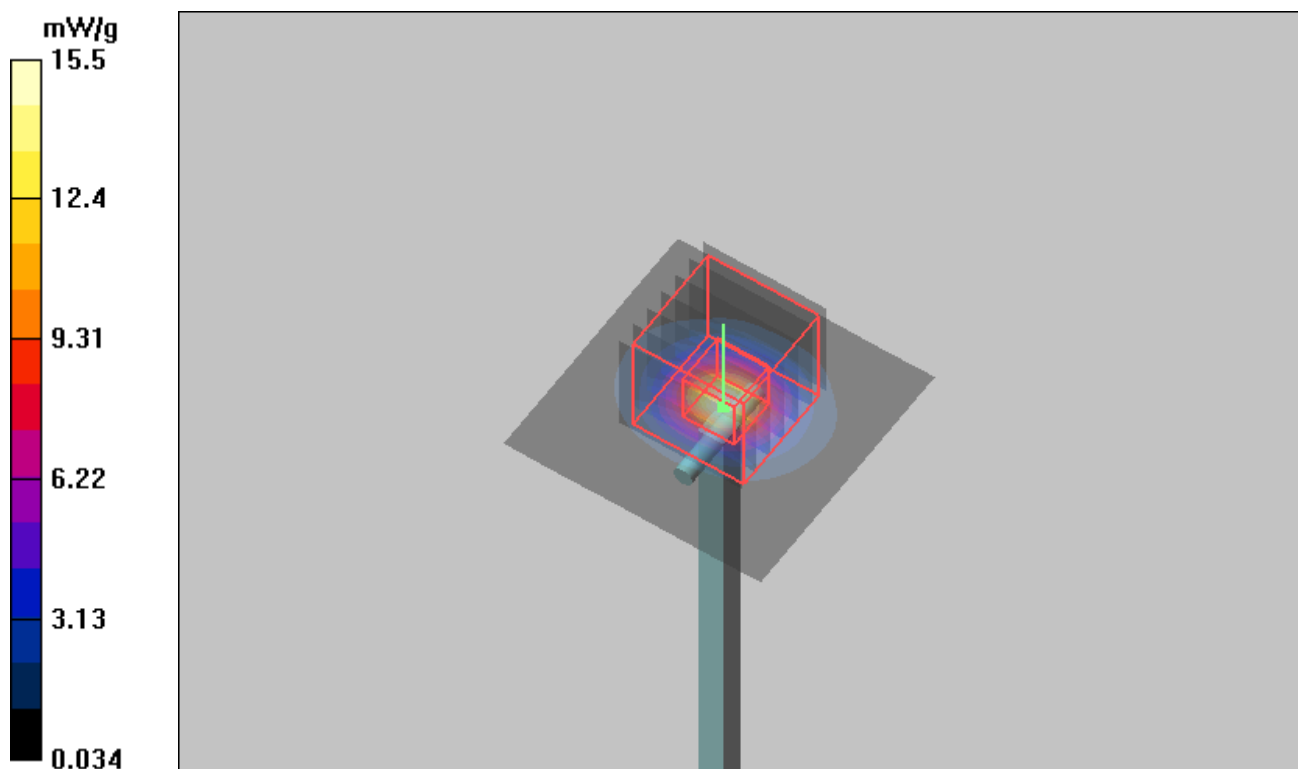
Flat-Section_MSL_5800/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 49.8 V/m; Power Drift = 0.045 dB

Peak SAR (extrapolated) = 30.9 W/kg

SAR(1 g) = 6.81 mW/g; SAR(10 g) = 1.89 mW/g

Maximum value of SAR (measured) = 14.4 mW/g



Test Laboratory: KES Co., Ltd.

Ant 1_802.11b_2437_HSL

DUT: FXRD-1417WA; Type: X-ray Detector; Serial: N/A

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 37.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(7.63, 7.63, 7.63); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASYS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Flat-Section_HSL_Antenna 1_Channel 6_802.11b_1Mbps/Area Scan (121x121x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.037 mW/g

Flat-Section_HSL_Antenna 1_Channel 6_802.11b_1Mbps/Zoom Scan (7x7x7)/Cube

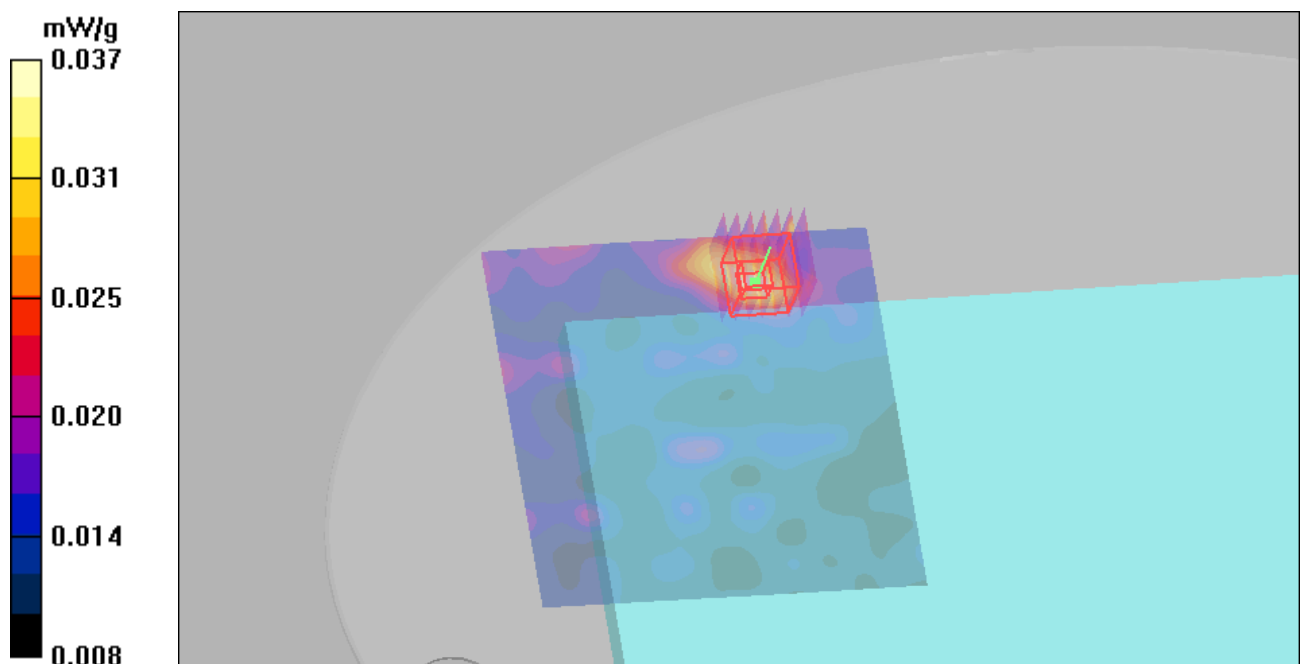
0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.17 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.059 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.022 mW/g

Maximum value of SAR (measured) = 0.039 mW/g



Test Laboratory: KES Co., Ltd.

Ant 1_802.11b_2437_MSL

DUT: FXRD-1417WA; Type: X-ray Detector; Serial: N/A

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(7.59, 7.59, 7.59); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASYS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Flat-Section_MSL_Antenna 1_Channel 6_802.11b_1Mbps/Area Scan (121x121x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.029 mW/g

Flat-Section_MSL_Antenna 1_Channel 6_802.11b_1Mbps/Zoom Scan (7x7x7)/Cube

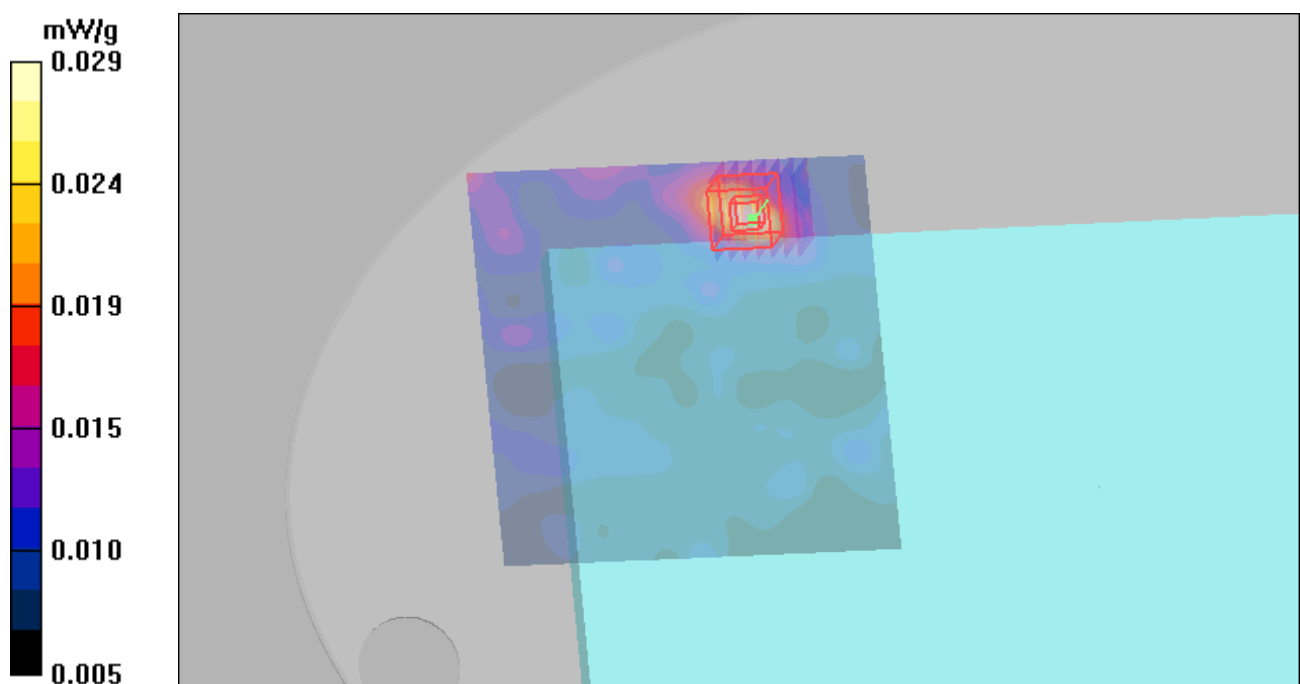
0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.21 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 0.049 W/kg

SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.016 mW/g

Maximum value of SAR (measured) = 0.031 mW/g



Test Laboratory: KES Co., Ltd.

Ant 1_UNII_5240_HSL

DUT: FXRD-1417WA; Type: X-ray Detector; Serial: N/A

Communication System: WLAN; Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.87$ mho/m; $\epsilon_r = 35.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(5.49, 5.49, 5.49); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASYS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Flat-Section_HSL_Antenna 1_Channel 48_UNII_6Mbps/Area Scan (151x151x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.091 mW/g

Flat-Section_HSL_Antenna 1_Channel 48_UNII_6Mbps/Zoom Scan (7x7x12)/Cube

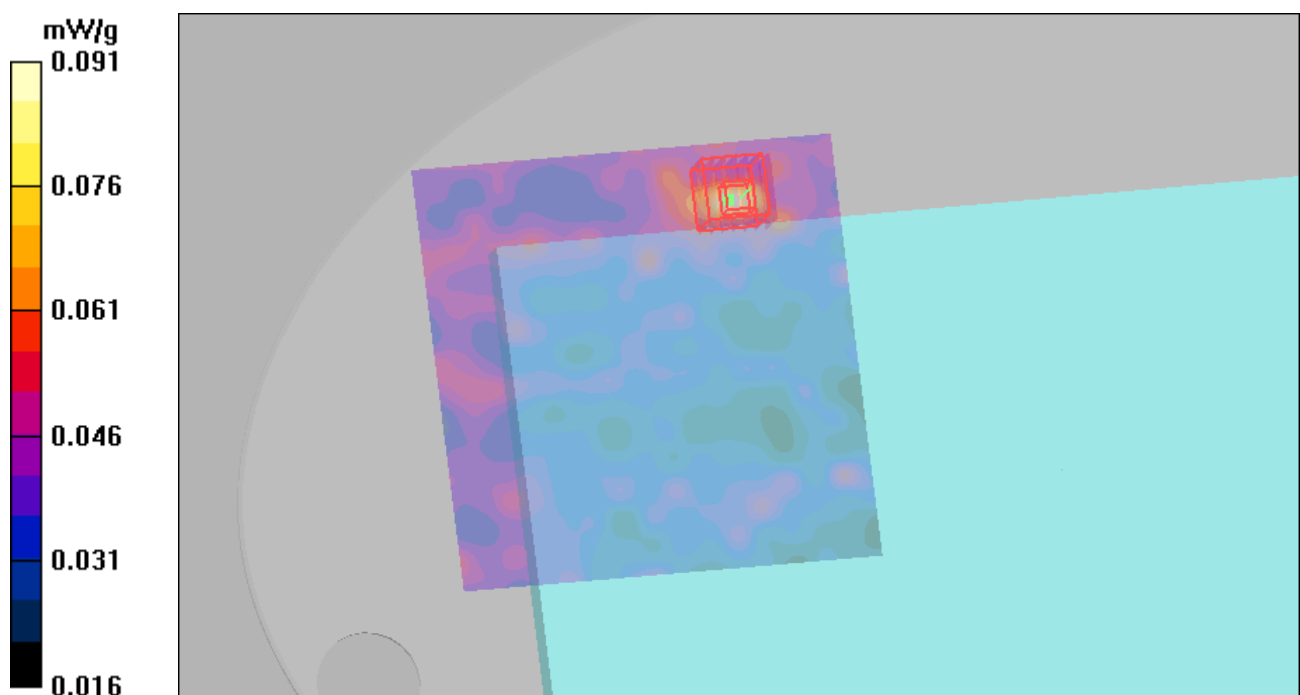
0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.51 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.050 mW/g

Maximum value of SAR (measured) = 0.095 mW/g



Test Laboratory: KES Co., Ltd.

Ant 1_UNII_5240_MSL

DUT: FXRD-1417WA; Type: X-ray Detector; Serial: N/A

Communication System: WLAN; Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 5.43$ mho/m; $\epsilon_r = 48.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(4.88, 4.88, 4.88); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- 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_Antenna 1_Channel 48_UNII_6Mbps/Area Scan (151x151x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.090 mW/g

Flat-Section_MSL_Antenna 1_Channel 48_UNII_6Mbps/Zoom Scan (7x7x12)/Cube 0:

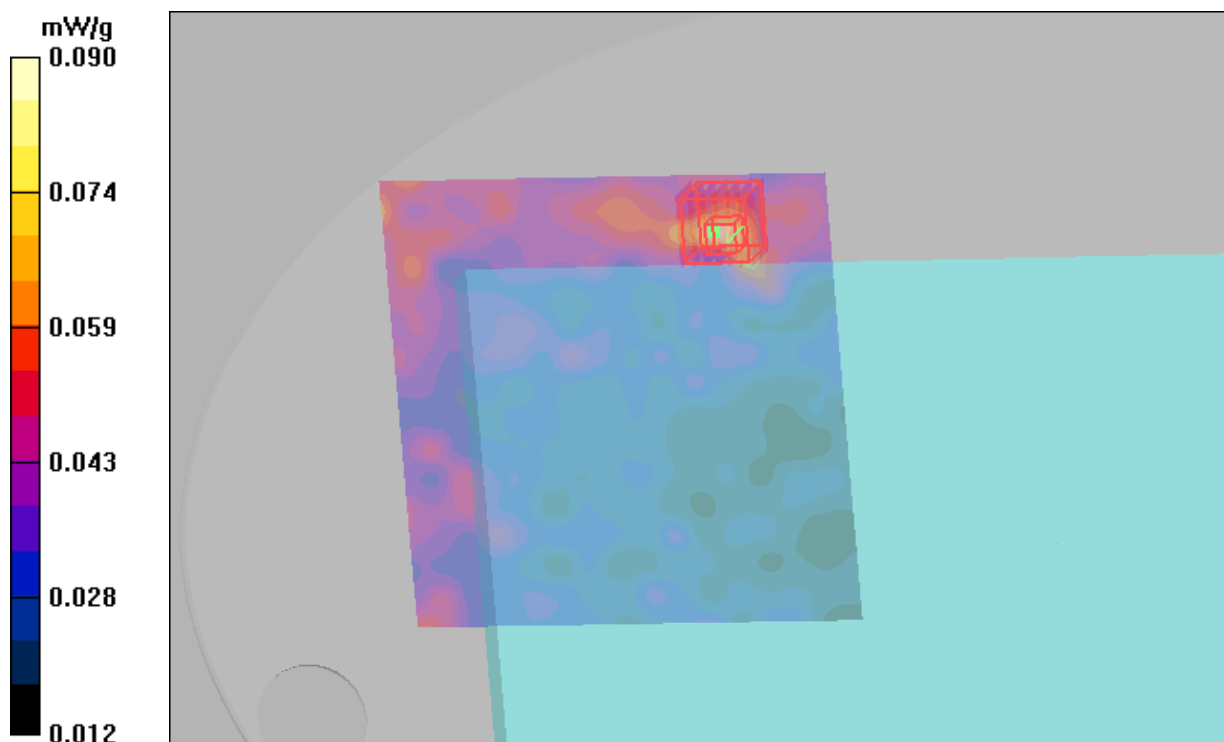
Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.40 V/m; Power Drift = -0.140 dB

Peak SAR (extrapolated) = 0.193 W/kg

SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.049 mW/g

Maximum value of SAR (measured) = 0.092 mW/g



Test Laboratory: KES Co., Ltd.

Ant 1_802.11a_5745_HSL

DUT: FXRD-1417WA; Type: X-ray Detector; Serial: N/A

Communication System: WLAN; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.31$ mho/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(4.82, 4.82, 4.82); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASYS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Flat-Section_HSL_Antenna 1_Channel 149_802.11a_6Mbps/Area Scan (151x151x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.937 mW/g

Flat-Section_HSL_Antenna 1_Channel 149_802.11a_6Mbps/Zoom Scan

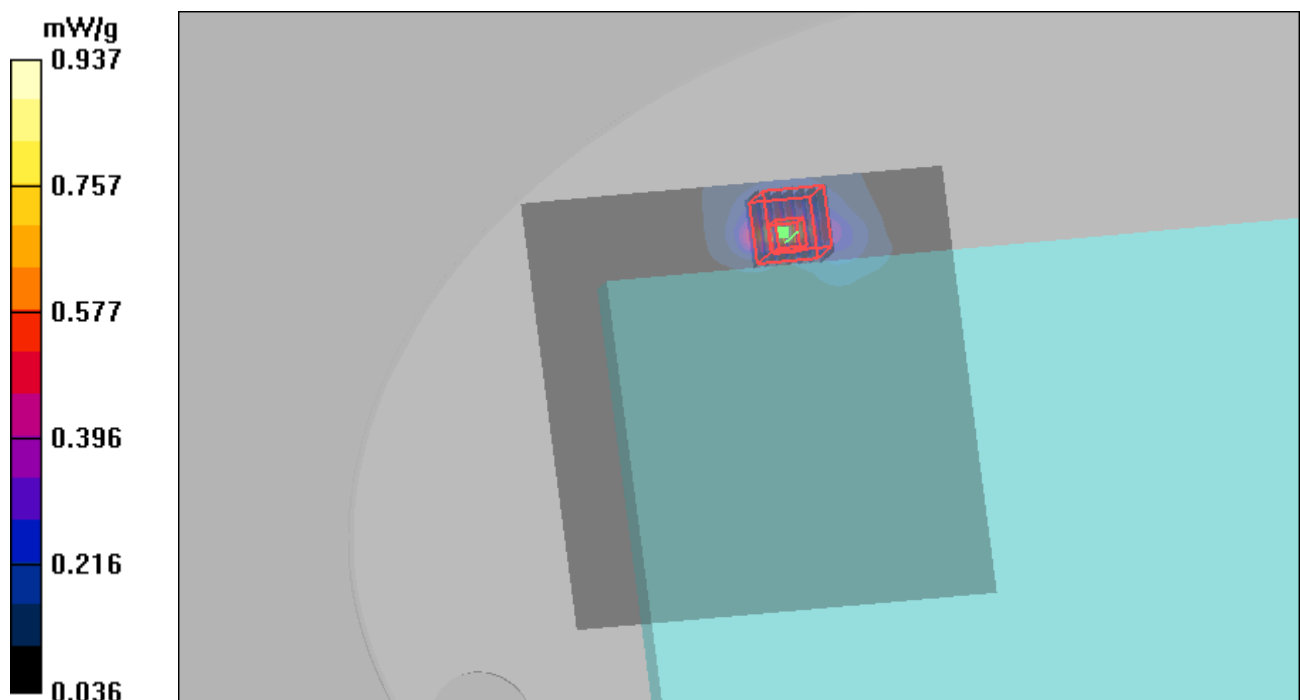
(7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.70 V/m; Power Drift = 0.072 dB

Peak SAR (extrapolated) = 2.60 W/kg

SAR(1 g) = 0.454 mW/g; SAR(10 g) = 0.198 mW/g

Maximum value of SAR (measured) = 0.802 mW/g



Test Laboratory: KES Co., Ltd.

Ant 1_802.11a_5785_HSL

DUT: FXRD-1417WA; Type: X-ray Detector; Serial: N/A

Communication System: WLAN; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.36$ mho/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(4.82, 4.82, 4.82); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASYS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Flat-Section_HSL_Antenna 1_Channel 157_802.11a_6Mbps/Area Scan (151x151x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.517 mW/g

Flat-Section_HSL_Antenna 1_Channel 157_802.11a_6Mbps/Zoom Scan

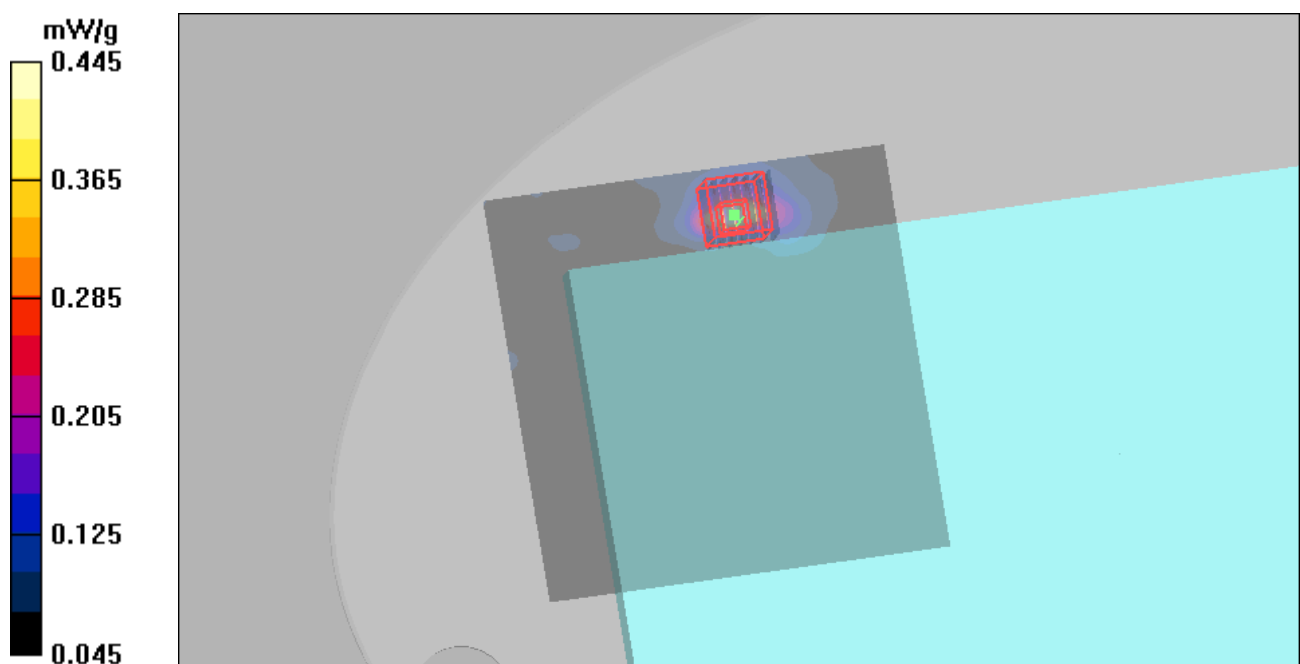
(7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.34 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.132 mW/g

Maximum value of SAR (measured) = 0.445 mW/g



Test Laboratory: KES Co., Ltd.

Ant 1_802.11a_5825_HSL

DUT: FXRD-1417WA; Type: X-ray Detector; Serial: N/A

Communication System: WLAN; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.41$ mho/m; $\epsilon_r = 33.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(4.82, 4.82, 4.82); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASYS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Flat-Section_HSL_Antenna 1_Channel 165_802.11a_6Mbps/Area Scan (151x151x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.352 mW/g

Flat-Section_HSL_Antenna 1_Channel 165_802.11a_6Mbps/Zoom Scan

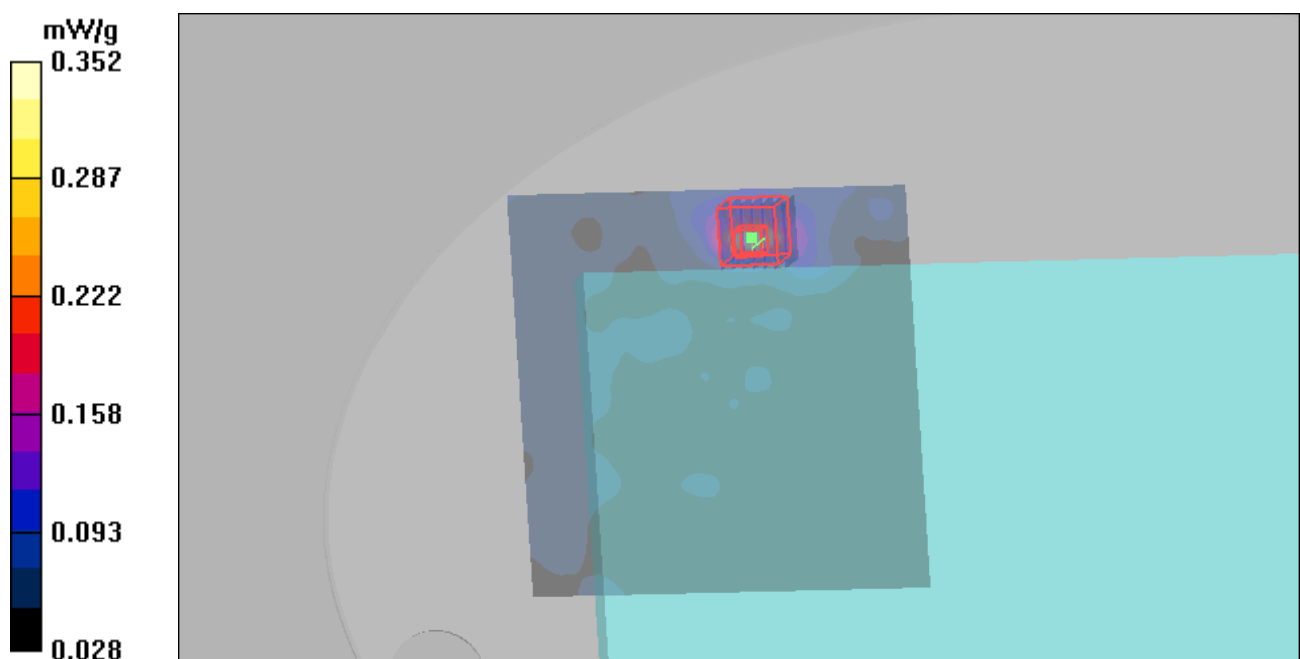
(7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.98 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.203 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.333 mW/g



Test Laboratory: KES Co., Ltd.

Ant 1_802.11a_5745_MSL

DUT: FXRD-1417WA; Type: X-ray Detector; Serial: N/A

Communication System: WLAN; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.17 \text{ mho/m}$; $\epsilon_r = 46.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: EX3DV4 - SN3947; ConvF(4.4, 4.4, 4.4); Calibrated: 2013-10-09
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1344; Calibrated: 2013-11-21
- Phantom: ELI v5.0_2013_01_23; Type: QDOVA002AA; Serial: TP:1190
- Measurement SW: DASYS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Flat-Section_MSL_Antenna 1_Channel 149_802.11a_6Mbps/Area Scan (151x151x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.690 mW/g

Flat-Section_MSL_Antenna 1_Channel 149_802.11a_6Mbps/Zoom Scan

(7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.000 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.129 mW/g

Maximum value of SAR (measured) = 0.639 mW/g

