

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation_HSL900_20031117.da4](#)

System Validation

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:153

Program: Validation

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: HSL900 ($\sigma = 0.947$ mho/m, $\epsilon_r = 40.16$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1678; ConvF(6.6, 6.6, 6.6); Calibrated: 2003/02/07
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2003/01/31
- Phantom: SAM 1194; Type: QD 000 P40 CA; Serial: 1194
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Antenna Input Power 250 mW/Area Scan (5x5x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 57.5 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 2.89 mW/g

Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

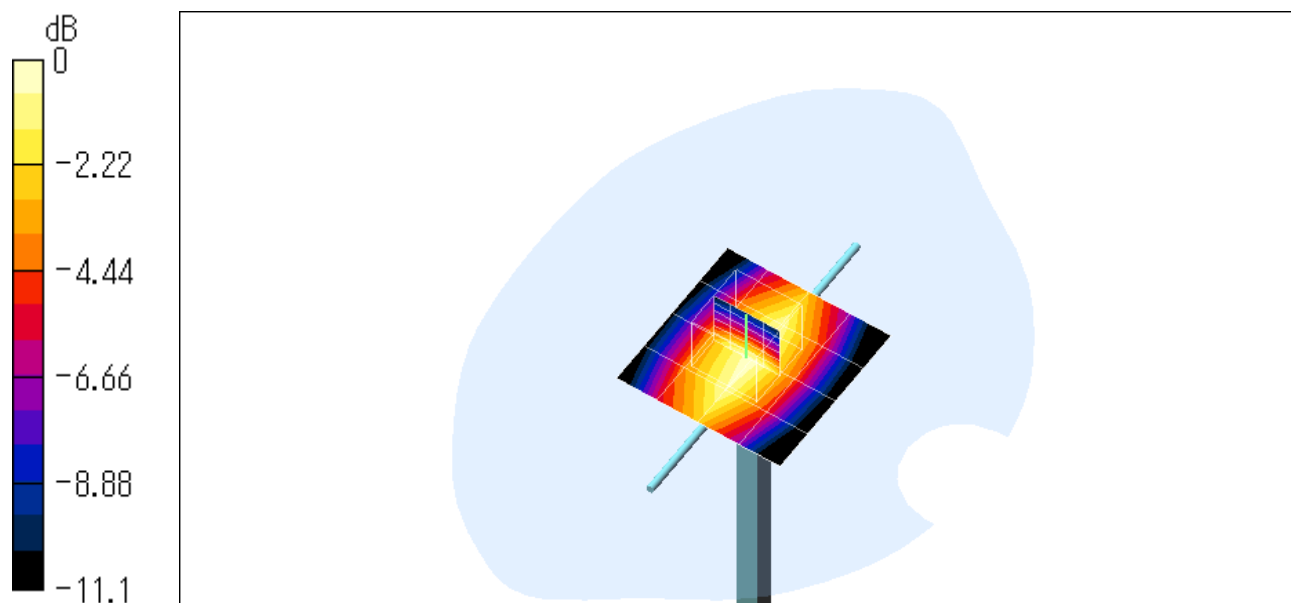
Peak SAR (extrapolated) = 3.99 W/kg

SAR(1 g) = 2.71 mW/g; SAR(10 g) = 1.73 mW/g

Reference Value = 57.5 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 2.91 mW/g



0 dB = 2.91mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation_M900_20031118.da4](#)

System Validation

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:153

Program: Validation

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: M900 ($\sigma = 1.03 \text{ mho/m}$, $\epsilon_r = 53.26$, $\rho = 1000 \text{ kg/m}^3$)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1678; ConvF(6.5, 6.5, 6.5); Calibrated: 2003/02/07
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2003/01/31
- Phantom: SAM 1194; Type: QD 000 P40 CA; Serial: 1194
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Antenna Input Power 250 mW/Area Scan (5x5x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 55.3 V/m

Power Drift = 0.04 dB

Maximum value of SAR = 2.87 mW/g

Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

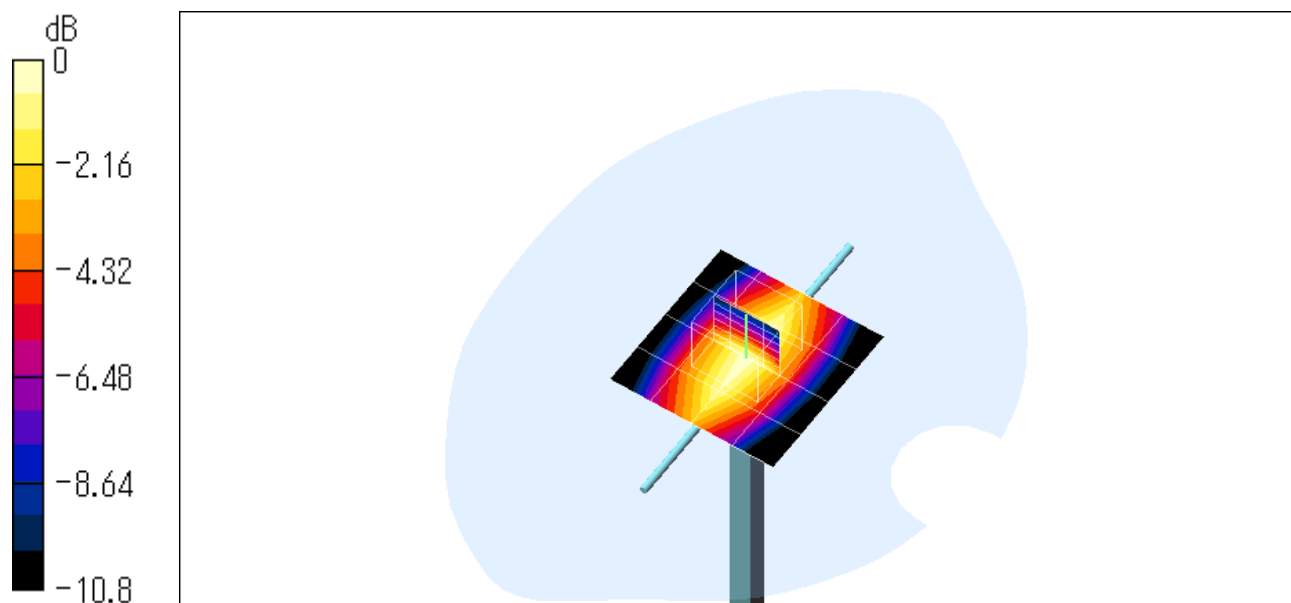
Peak SAR (extrapolated) = 3.88 W/kg

SAR(1 g) = 2.67 mW/g; SAR(10 g) = 1.72 mW/g

Reference Value = 55.3 V/m

Power Drift = 0.04 dB

Maximum value of SAR = 2.87 mW/g



0 dB = 2.87mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation_HSL1800_20031119.da4](#)

System Validation

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 2d038

Program: Validation

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: HSL1800 ($\sigma = 1.341$ mho/m, $\epsilon_r = 39.34$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1678; ConvF(5.3, 5.3, 5.3); Calibrated: 2003/02/07
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2003/01/31
- Phantom: SAM 1194; Type: QD 000 P40 CA; Serial: 1194
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Antenna Input Power 250 mW/Area Scan (5x5x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 93.1 V/m

Power Drift = 0.004 dB

Maximum value of SAR = 10.4 mW/g

Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

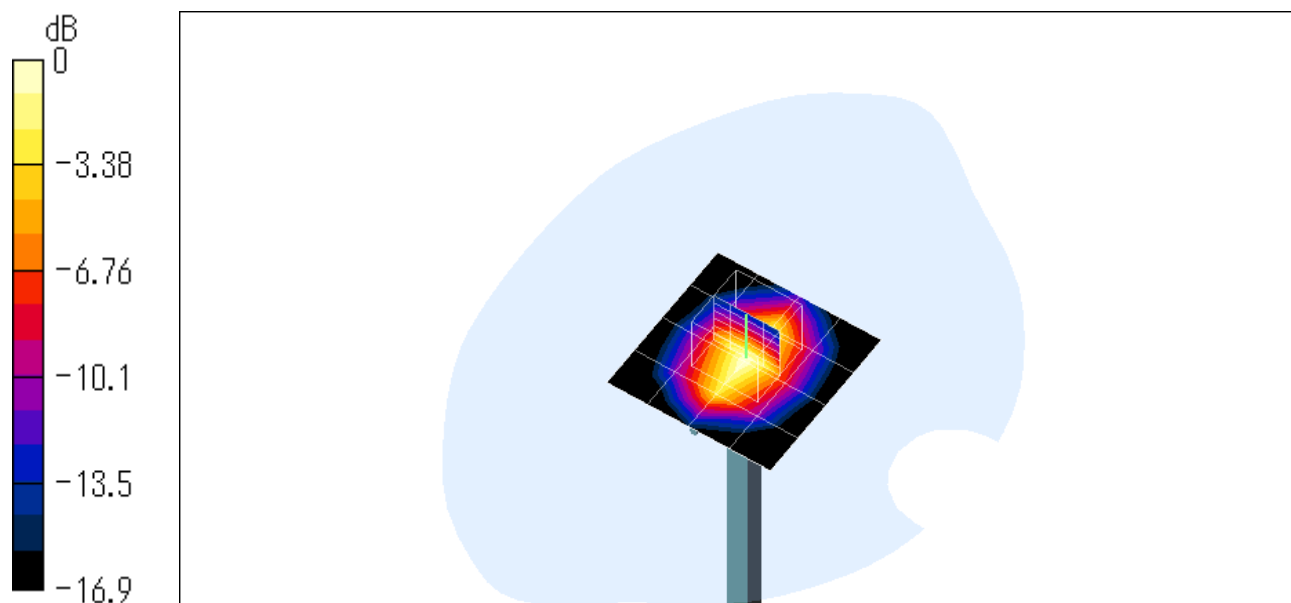
Peak SAR (extrapolated) = 15.4 W/kg

SAR(1 g) = 9.18 mW/g; SAR(10 g) = 4.86 mW/g

Reference Value = 93.1 V/m

Power Drift = 0.004 dB

Maximum value of SAR = 10.4 mW/g



0 dB = 10.4mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation_M1800_20031120.da4](#)

System Validation

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 2d038

Program: Validation

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: M1800 ($\sigma = 1.474$ mho/m, $\epsilon_r = 51.93$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1678; ConvF(4.8, 4.8, 4.8); Calibrated: 2003/02/07
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2003/01/31
- Phantom: SAM 1194; Type: QD 000 P40 CA; Serial: 1194
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Antenna Input Power 250 mW/Area Scan (5x5x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 90 V/m

Power Drift = -0.04 dB

Maximum value of SAR = 10.5 mW/g

Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

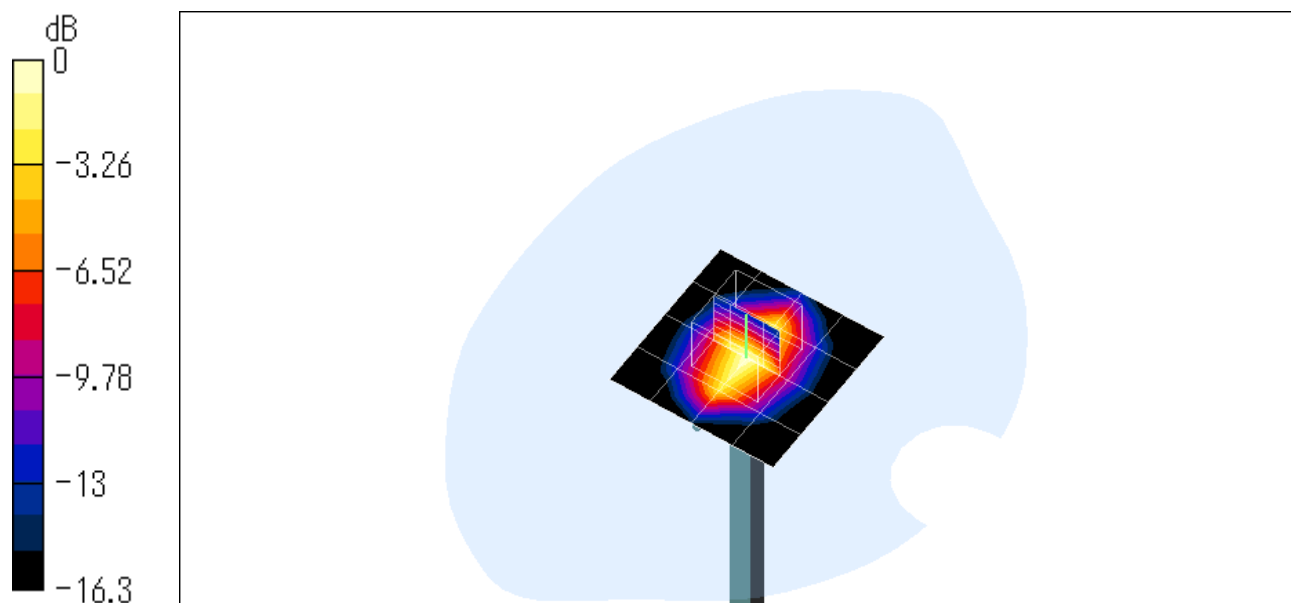
Peak SAR (extrapolated) = 15.6 W/kg

SAR(1 g) = 9.4 mW/g; SAR(10 g) = 5.03 mW/g

Reference Value = 90 V/m

Power Drift = -0.04 dB

Maximum value of SAR = 10.5 mW/g



0 dB = 10.5mW/g