

ATTACHMENT

Exhibit 1

System Validation Plots

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation_M1800_050418.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 ($\sigma = 1.477$ mho/m, $\epsilon_r = 53.79$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.82, 4.82, 4.82); Calibrated: 2004/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508;
- 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 = 89.3 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 10.3 mW/g

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

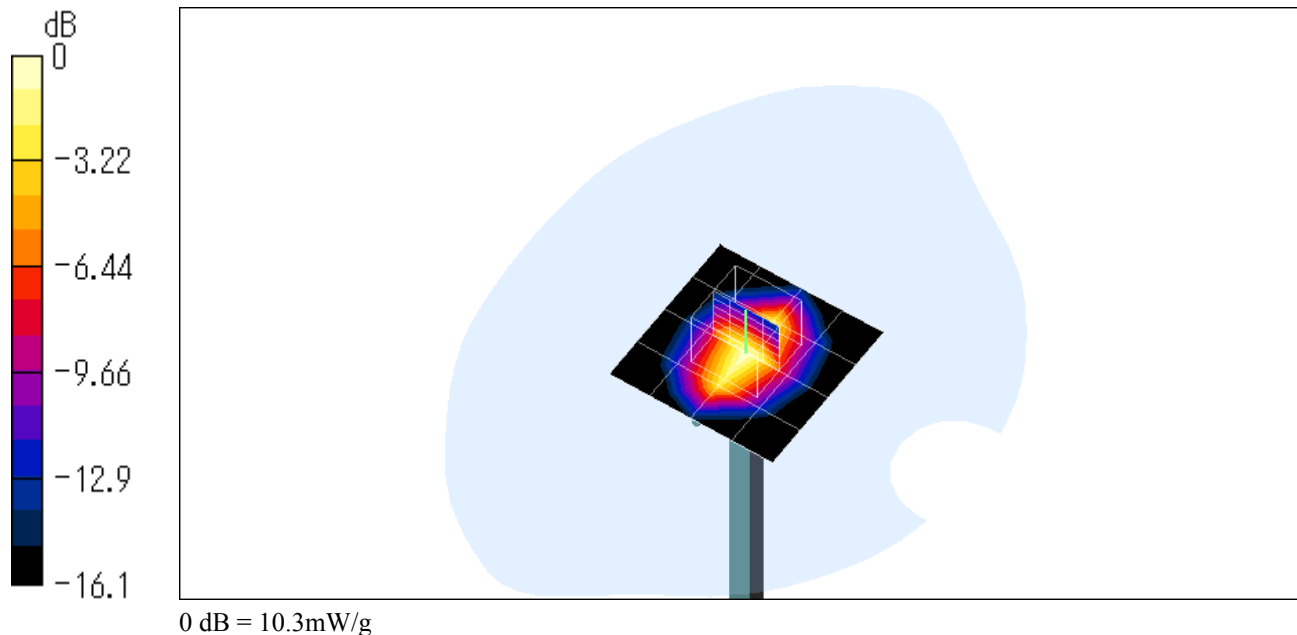
Peak SAR (extrapolated) = 15 W/kg

SAR(1 g) = 9.15 mW/g; SAR(10 g) = 4.91 mW/g

Reference Value = 89.3 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 10.3 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation_HSL1800_050419.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 ($\sigma = 1.354 \text{ mho/m}$, $\epsilon_r = 40.41$, $\rho = 1000 \text{ kg/m}^3$)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(5.42, 5.42, 5.42); Calibrated: 2004/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508;
- 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 = 91.8 V/m

Power Drift = -0.03 dB

Maximum value of SAR = 10.2 mW/g

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

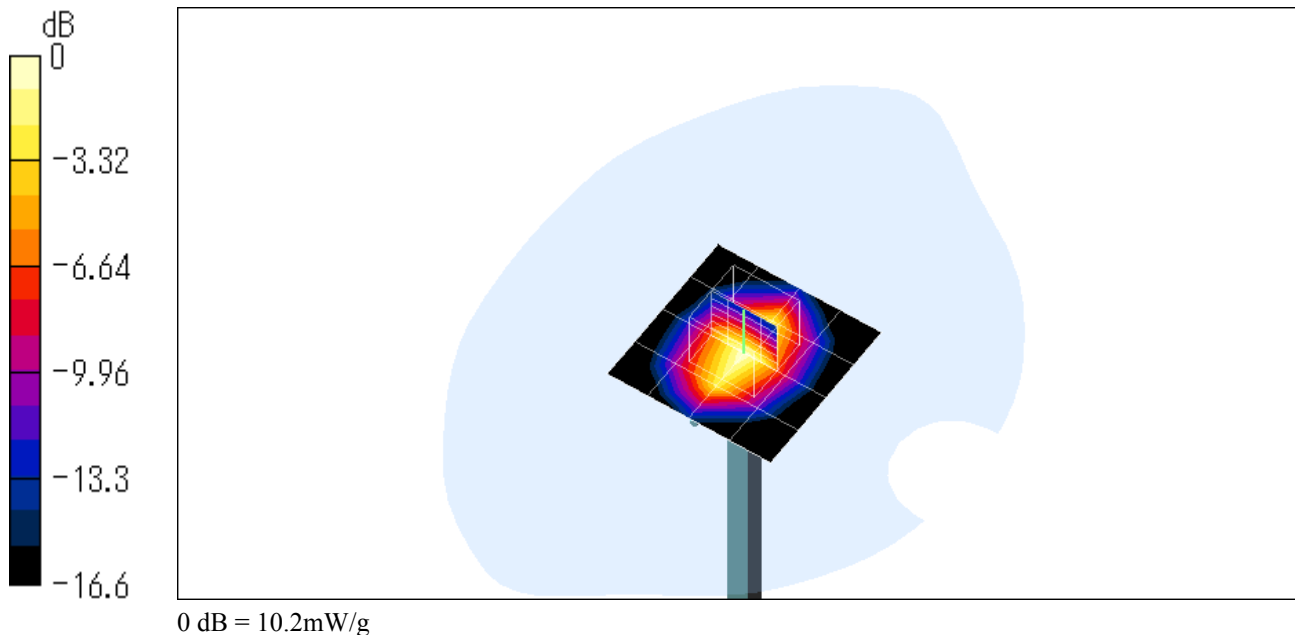
Peak SAR (extrapolated) = 15.4 W/kg

SAR(1 g) = 9.09 mW/g; SAR(10 g) = 4.83 mW/g

Reference Value = 91.8 V/m

Power Drift = -0.03 dB

Maximum value of SAR = 10.2 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation_HSL1800_050518.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 ($\sigma = 1.357$ mho/m, $\epsilon_r = 40.29$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(5.42, 5.42, 5.42); Calibrated: 2004/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508;
- 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 = 93.9 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 10.6 mW/g

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

Peak SAR (extrapolated) = 16.1 W/kg

SAR(1 g) = 9.62 mW/g; SAR(10 g) = 5.14 mW/g

Reference Value = 93.9 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 10.8 mW/g

