

**APPENDIX**

**Exhibit 1**

**System Validation Plots**

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation\\_HSL1800\\_040407.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 ( $\sigma = 1.389$  mho/m,  $\epsilon_r = 38.53$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1678; ConvF(5.15, 5.15, 5.15); Calibrated: 2004/02/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2004/02/06
- 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 = 92.1 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

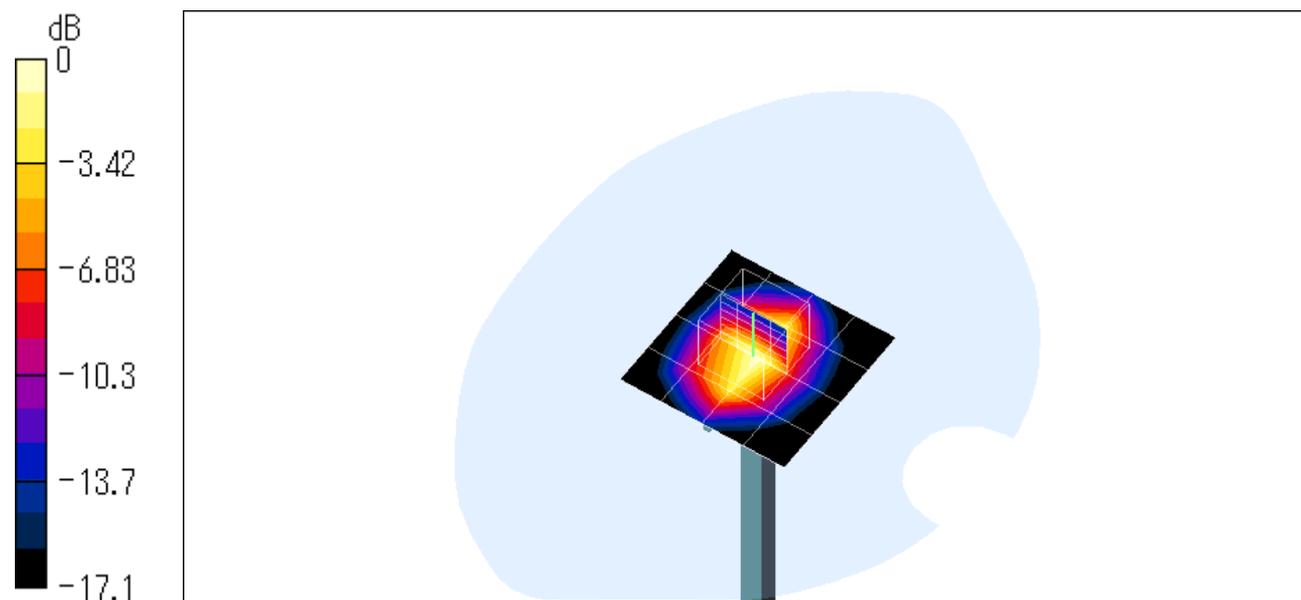
Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 9.91 mW/g; SAR(10 g) = 5.18 mW/g

Reference Value = 92.1 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 11.1 mW/g



0 dB = 11.1 mW/g

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation\\_M1800\\_040408.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 ( $\sigma = 1.554$  mho/m,  $\epsilon_r = 52.23$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1678; ConvF(4.65, 4.65, 4.65); Calibrated: 2004/02/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2004/02/06
- 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 = 88.6 V/m

Power Drift = -0.05 dB

Maximum value of SAR = 10.7 mW/g

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

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 9.93 mW/g; SAR(10 g) = 5.27 mW/g

Reference Value = 88.6 V/m

Power Drift = -0.05 dB

Maximum value of SAR = 11.1 mW/g

