



Attachment 1 – System Validation Plots

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

System Validation

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

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

Medium: HSL1800 Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.35 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(5.2, 5.2, 5.2); Calibrated: 2005/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2005/12/08
- Phantom: SAM 1194; Type: QD 000 P40 CA; Serial: 1194
- Measurement SW: DAS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 10.9 mW/g

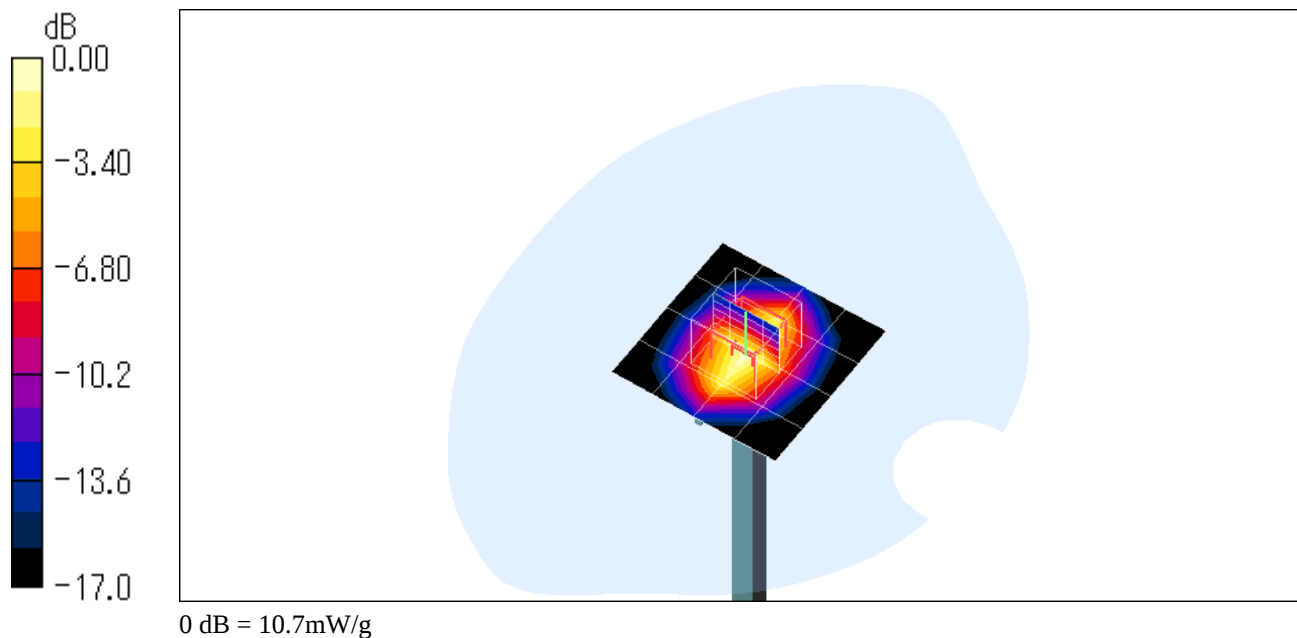
Antenna Input Power 250 mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 95.2 V/m ; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 9.53 mW/g ; SAR(10 g) = 5.09 mW/g

Maximum value of SAR (measured) = 10.7 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

System Validation

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

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

Medium: M1800 Medium parameters used: $f = 1800$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.54, 4.54, 4.54); Calibrated: 2005/12/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2005/12/08
- Phantom: SAM 1194; Type: QD 000 P40 CA; Serial: 1194
- Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 11.0 mW/g

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

Reference Value = 93.4 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 9.77 mW/g; SAR(10 g) = 5.31 mW/g

