

APPENDIX 1

System Validation Plots

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation031031.da4](#)

System Validation

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:714**Program: Validation**

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

Medium: HSL2450 ($\sigma = 1.835$ mho/m, $\epsilon_r = 37.82$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1678; ConvF(5, 5, 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 = 95.3 V/m

Power Drift = -0.03 dB

Maximum value of SAR = 14.6 mW/g

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

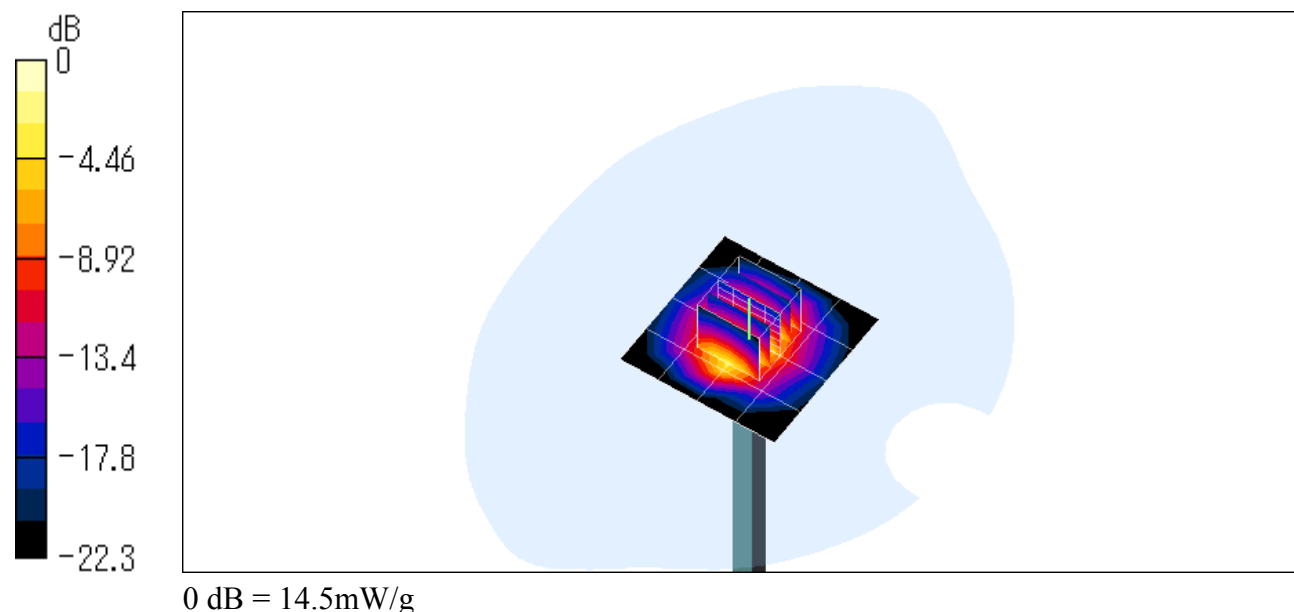
Peak SAR (extrapolated) = 27.9 W/kg

SAR(1 g) = 13.2 mW/g; SAR(10 g) = 6.07 mW/g

Reference Value = 95.3 V/m

Power Drift = -0.03 dB

Maximum value of SAR = 14.5 mW/g



Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

File Name: [Validation031101.da4](#)

System Validation

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:714**Program: Validation**

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

Medium: M2450 ($\sigma = 1.993$ mho/m, $\epsilon_r = 53.17$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1678; ConvF(4.6, 4.6, 4.6); 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 = 88.3 V/m

Power Drift = -0.04 dB

Maximum value of SAR = 13.9 mW/g

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

Peak SAR (extrapolated) = 29.1 W/kg

SAR(1 g) = 13.1 mW/g; SAR(10 g) = 5.91 mW/g

Reference Value = 88.3 V/m

Power Drift = -0.04 dB

Maximum value of SAR = 14.3 mW/g

