



**Attachment 2 – SAR Test Plots**

Test Laboratory: JAPAN QUALITY ASSURANCE ORGANIZATION

**802.11b 1ch (2412MHz)****DUT: Digital Camera; Type: DMC-TZ50; Serial: TZ50 000083**

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 2.03$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.09, 4.09, 4.09); Calibrated: 2007/11/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2007/11/07
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.735 mW/g

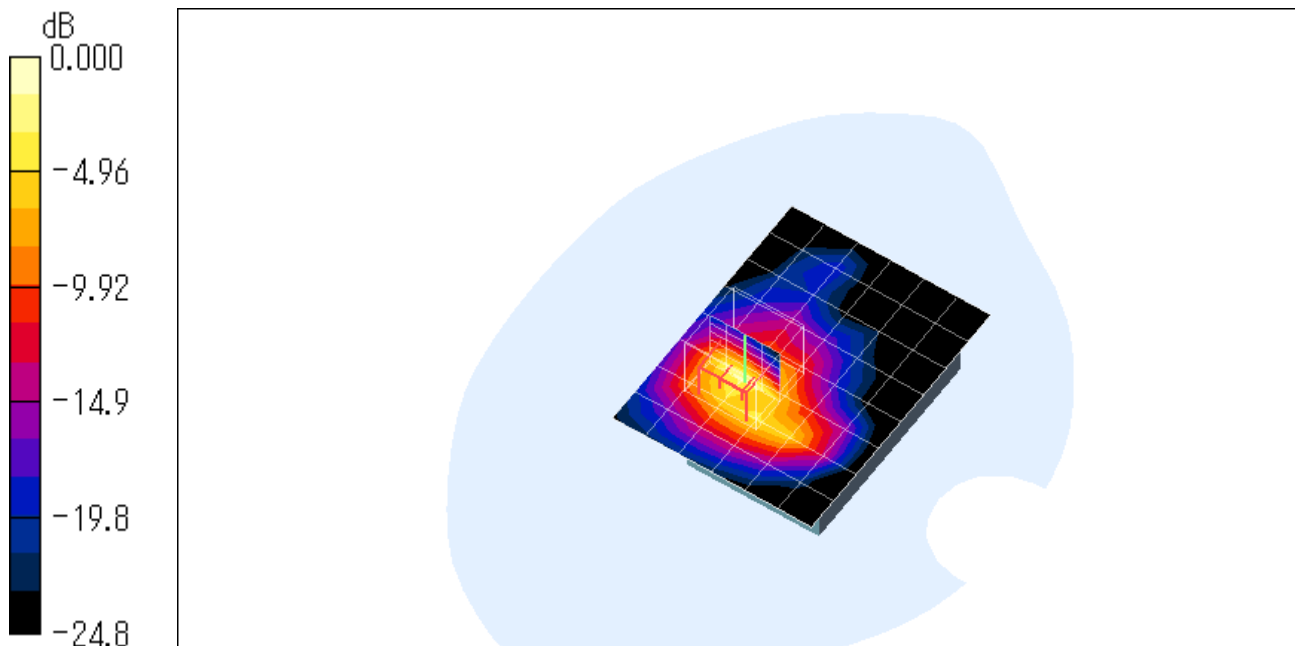
**Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.7 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 2.76 W/kg

**SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.389 mW/g**

Maximum value of SAR (measured) = 1.20 mW/g



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Medium: M2450 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 2.03$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

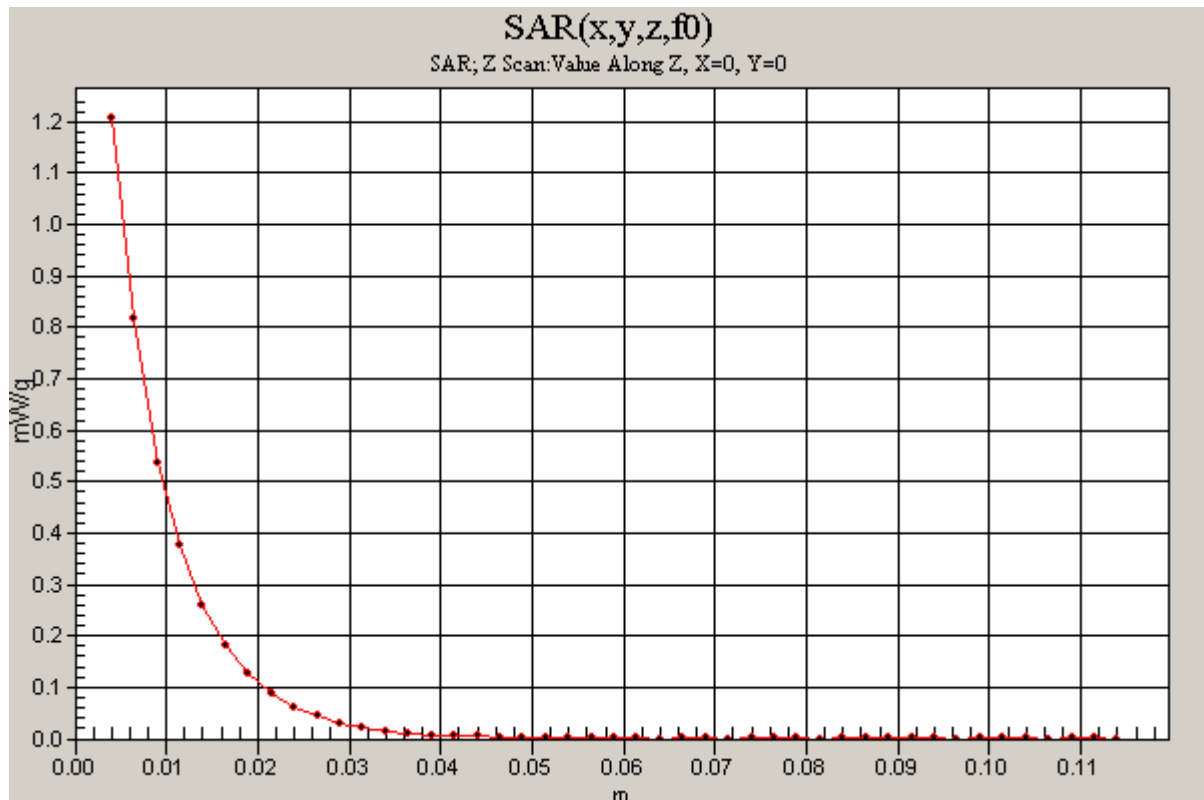
Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.09, 4.09, 4.09); Calibrated: 2007/11/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2007/11/07
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Z Scan (1x1x45):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Maximum value of SAR (measured) = 1.21 mW/g



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**802.11b 6ch (2437MHz)****DUT: Digital Camera; Type: DMC-TZ50; Serial: TZ50 000083**

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 2.03$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.09, 4.09, 4.09); Calibrated: 2007/11/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2007/11/07
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.349 mW/g

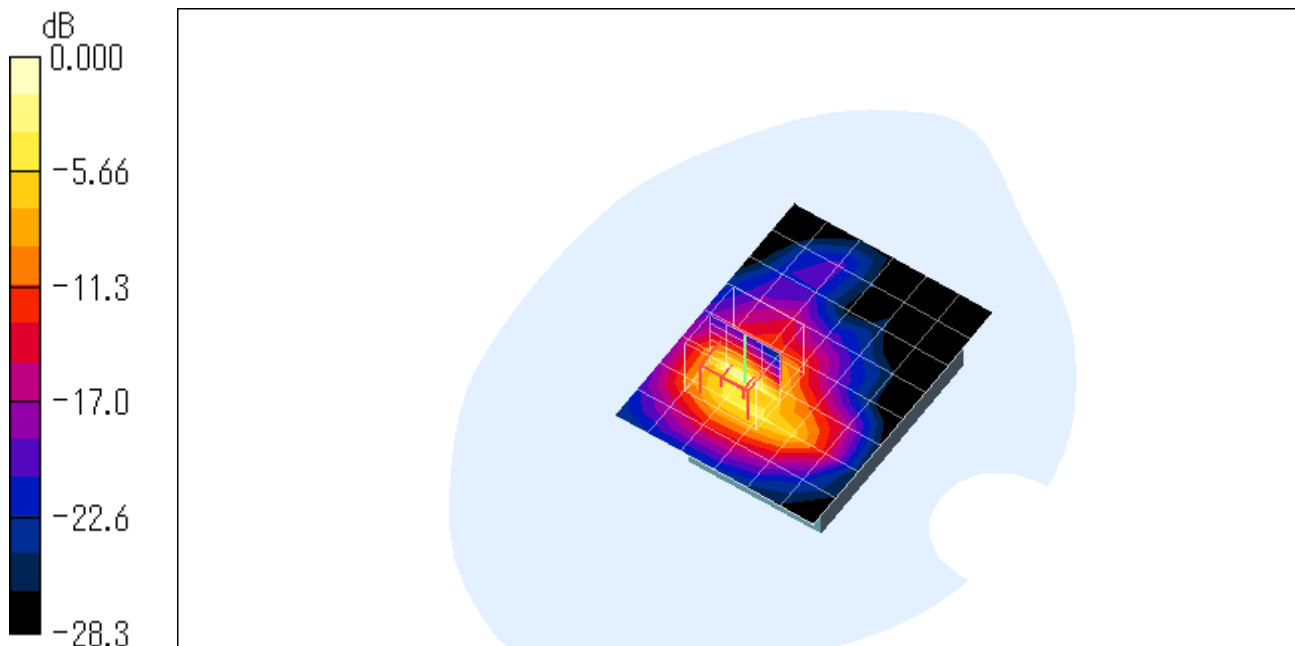
**Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.185 dB

Peak SAR (extrapolated) = 1.52 W/kg

**SAR(1 g) = 0.560 mW/g; SAR(10 g) = 0.206 mW/g**

Maximum value of SAR (measured) = 0.718 mW/g



0 dB = 0.718mW/g

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## 802.11b 11ch (2462MHz)

**DUT: Digital Camera; Type: DMC-TZ50; Serial: TZ50 000083**

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 2.03 \text{ mho/m}$ ;  $\epsilon_r = 51.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.09, 4.09, 4.09); Calibrated: 2007/11/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2007/11/07
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Area Scan (7x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.140 mW/g

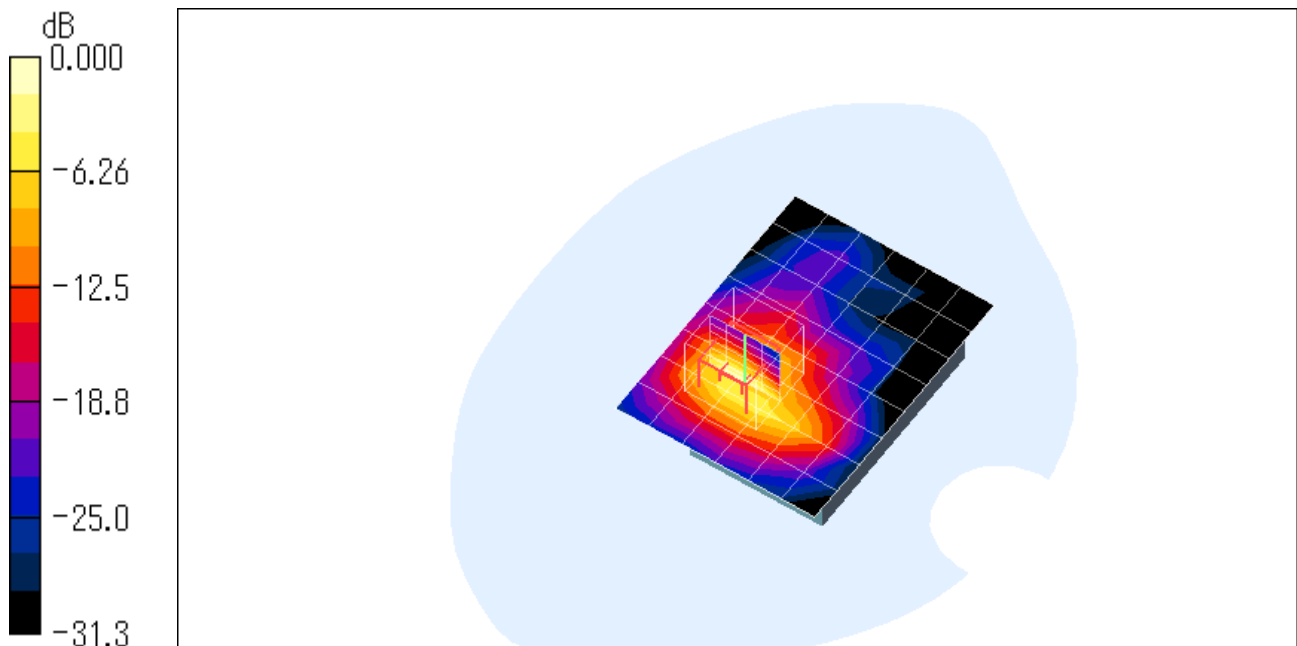
**Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 8.13 V/m; Power Drift = 0.067 dB

Peak SAR (extrapolated) = 0.782 W/kg

**SAR(1 g) = 0.289 mW/g; SAR(10 g) = 0.104 mW/g**

Maximum value of SAR (measured) = 0.395 mW/g



0 dB = 0.395mW/g

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## 802.11g 6ch (2437MHz)

**DUT: Digital Camera; Type: DMC-TZ50; Serial: TZ50 000083**

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 2.03 \text{ mho/m}$ ;  $\epsilon_r = 51.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1679; ConvF(4.09, 4.09, 4.09); Calibrated: 2007/11/15
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn508; Calibrated: 2007/11/07
- Phantom: SAM 1200; Type: QD 000 P40 CA; Serial: 1200
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn/Area Scan (7x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.198 mW/g

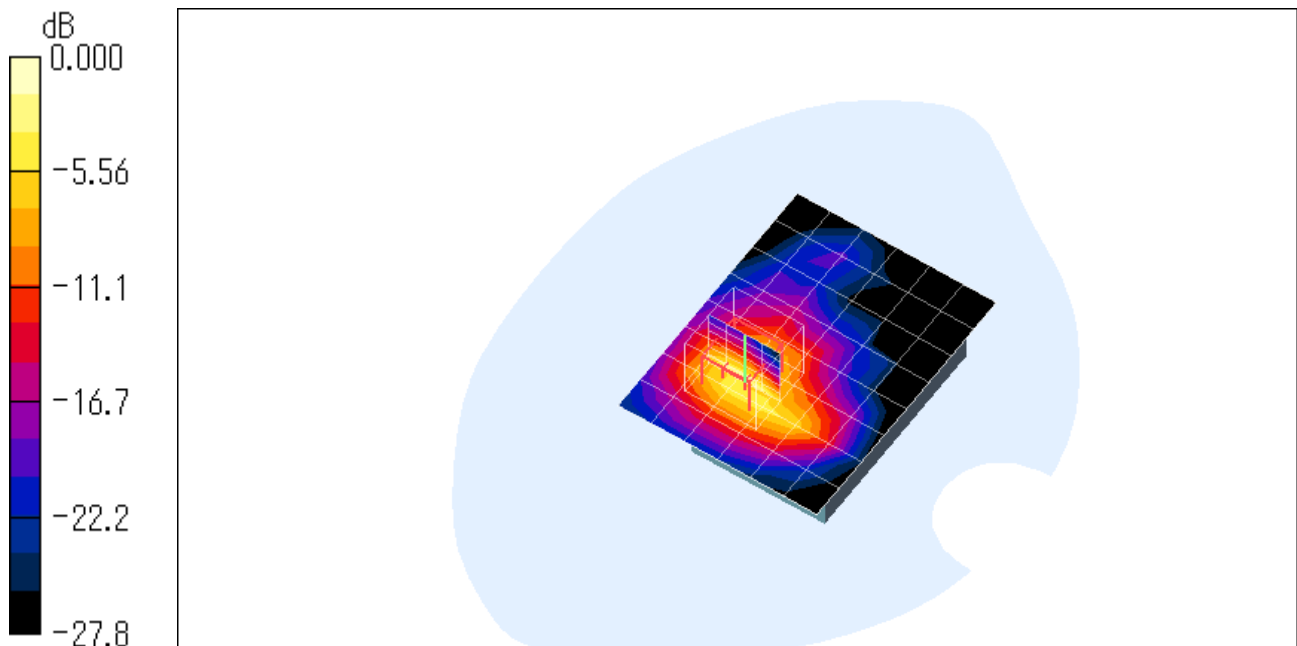
**Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 10.2 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.422 mW/g; SAR(10 g) = 0.153 mW/g**

Maximum value of SAR (measured) = 0.545 mW/g



0 dB = 0.545mW/g