

Test Laboratory: Compliance Certification Services

Host # 1

DUT: WJ Communicatrions; Type: MPR50xx; Serial: n/a

Phantom section: Flat Section

Frequency: 902.75 MHz; Duty Cycle: 1:2.13

Medium parameters used (interpolated): $f = 902.75$ MHz; $\sigma = 1.09$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

- **Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.5 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10.1, 10.1, 10.1);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 12/23/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

L-ch/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.79 mW/g

L-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

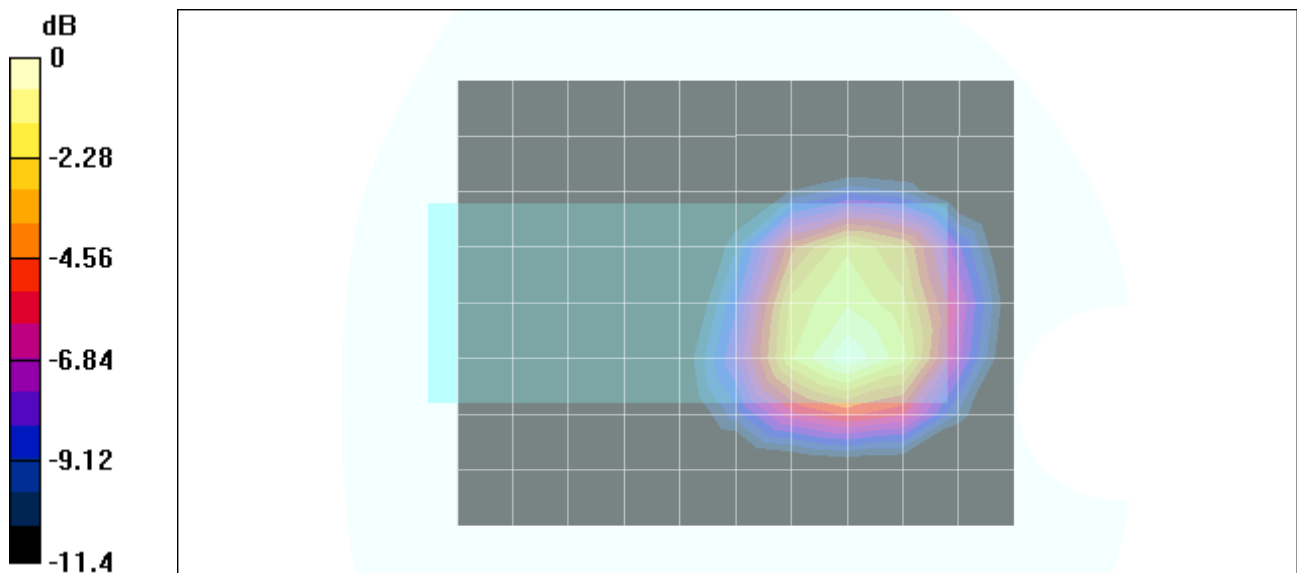
Reference Value = 14.9 V/m; Power Drift = 0.2 dB

Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 1.45 mW/g; SAR(10 g) = 0.904 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.83 mW/g



0 dB = 1.83mW/g

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Host # 1

DUT: WJ Communicatrions; Type: MPR50xx; Serial: n/a

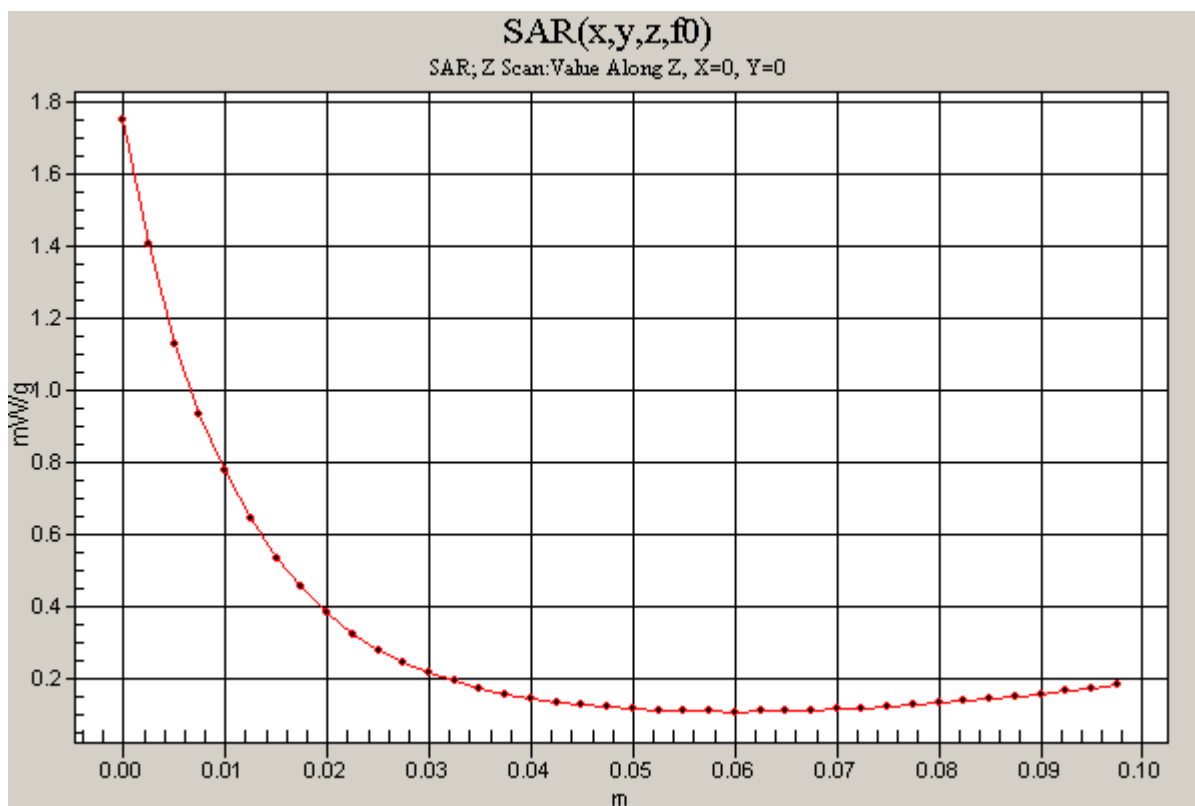
Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

L-ch/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.75 mW/g



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Host # 1

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Phantom section: Flat Section

Frequency: 914.75 MHz; Duty Cycle: 1:2.13

Medium parameters used (interpolated): $f = 914.75$ MHz; $\sigma = 1.09$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

- **Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.5 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10.1, 10.1, 10.1);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 12/23/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

M-ch/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.32 mW/g

M-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

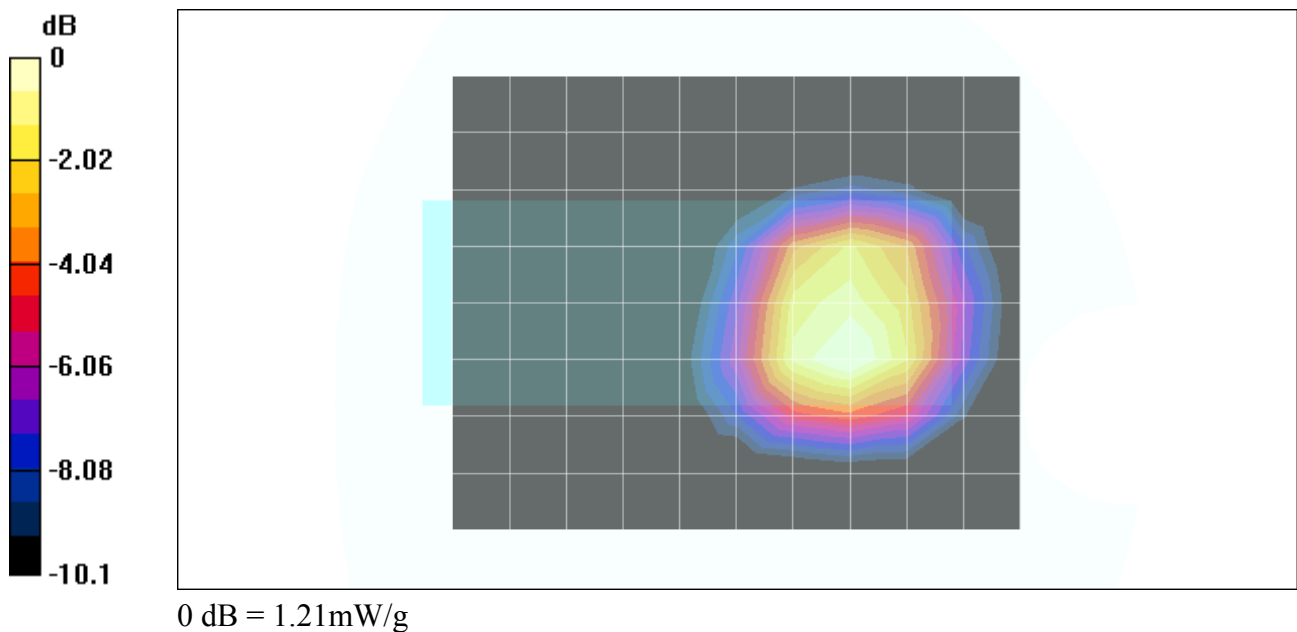
Reference Value = 14.3 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.634 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

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



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Host # 1

DUT: WJ Communicatrions; Type: MPR50xx; Serial: n/a

Phantom section: Flat Section

Frequency: 927.25 MHz; Duty Cycle: 1:2.13

Medium parameters used (interpolated): $f = 927.25$ MHz; $\sigma = 1.11$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

- **Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.5 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10.1, 10.1, 10.1);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 12/23/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

H-ch/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.933 mW/g

H-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.732 mW/g; SAR(10 g) = 0.463 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.947 mW/g

H-ch/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

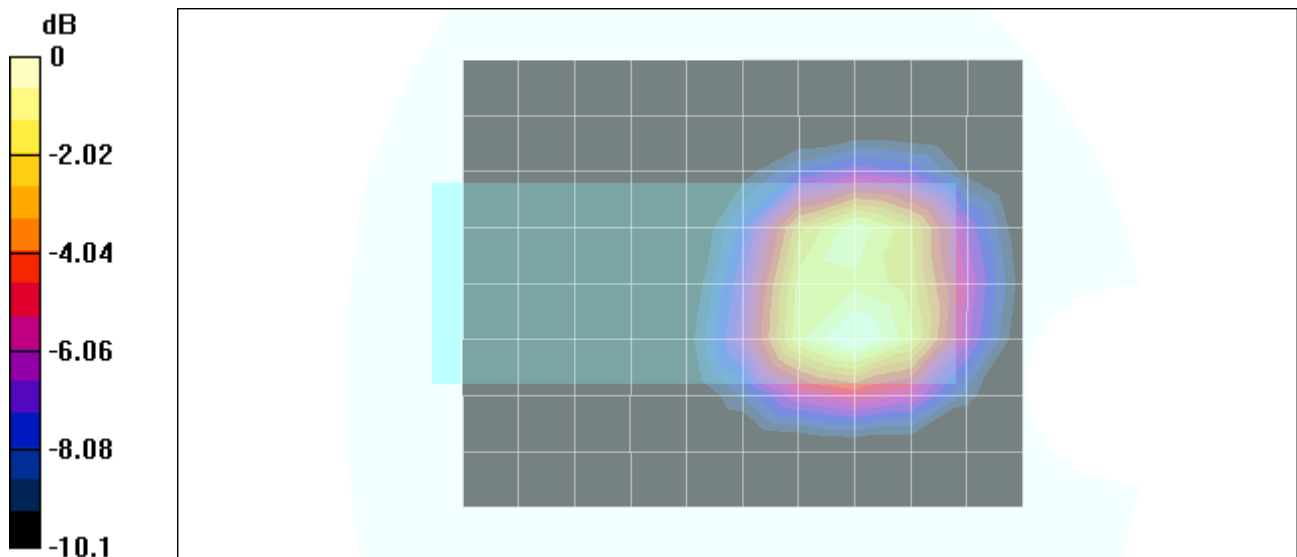
Reference Value = 11.5 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.672 mW/g; SAR(10 g) = 0.439 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.866 mW/g



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Host # 2

DUT: WJ Communicatrions; Type: MPR50xx; Serial: n/a

Phantom section: Flat Section

Frequency: 902.75 MHz; Duty Cycle: 1:2.13

Medium parameters used (interpolated): $f = 902.75$ MHz; $\sigma = 1.09$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

- **Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.5 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10.1, 10.1, 10.1);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 12/23/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

L-ch/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.33 mW/g

L-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

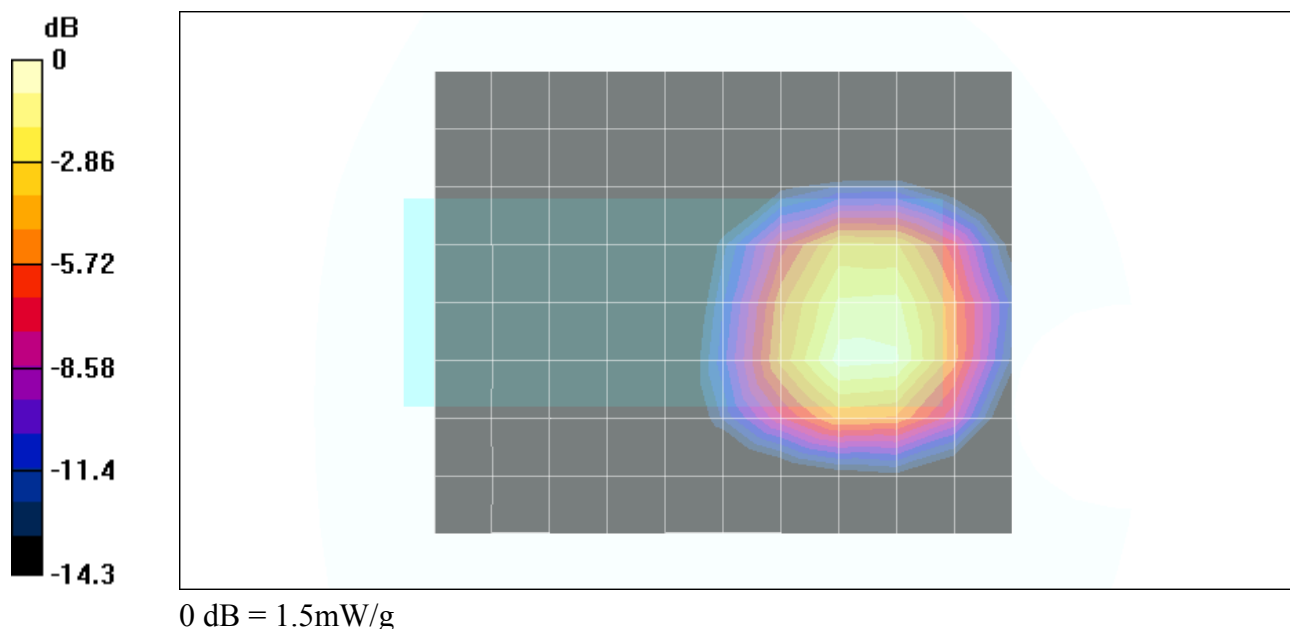
Reference Value = 9.99 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.662 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.5 mW/g



Test Laboratory: Compliance Certification Services

Host # 2

DUT: WJ Communicatrions; Type: MPR50xx; Serial: n/a

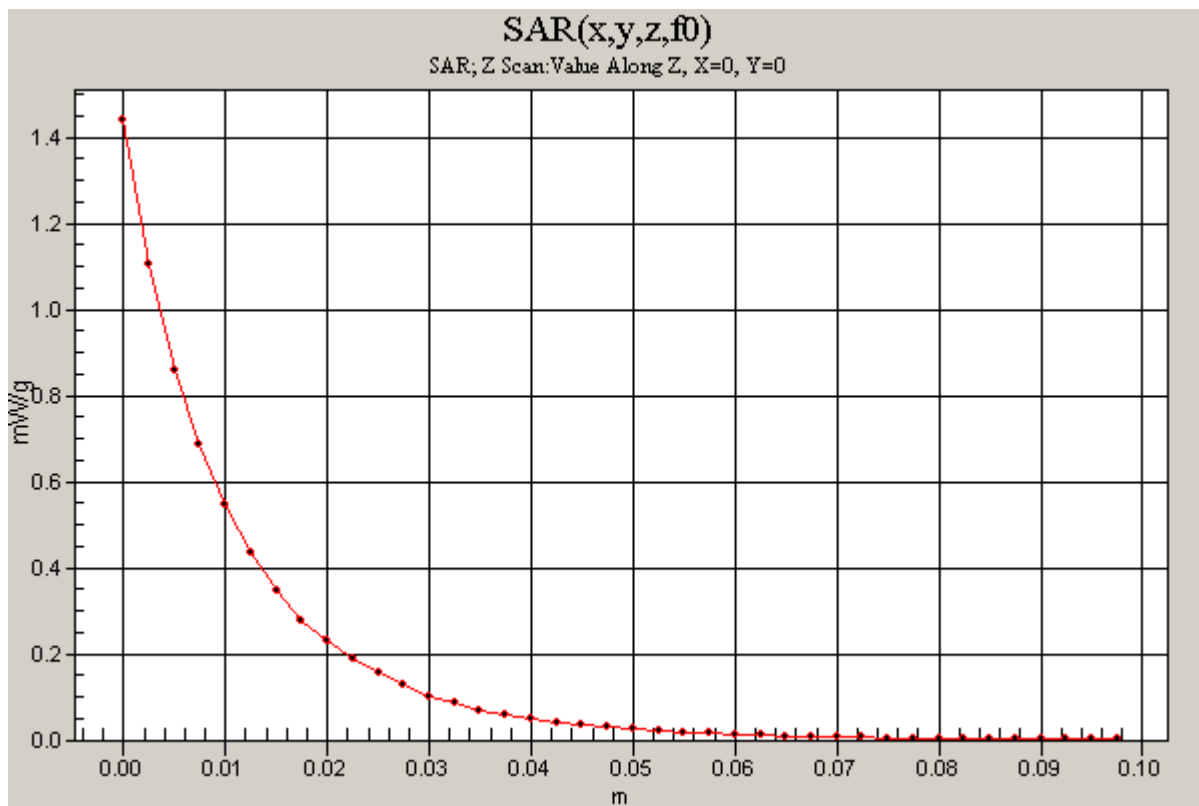
Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

L-ch/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.44 mW/g



Test Laboratory: Compliance Certification Services

Host # 2

DUT: WJ Communicatrions; Type: MPR50xx; Serial: n/a

Phantom section: Flat Section

Frequency: 914.75 MHz; Duty Cycle: 1:2.13

Medium parameters used (interpolated): $f = 914.75$ MHz; $\sigma = 1.09$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

- **Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.5 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10.1, 10.1, 10.1);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 12/23/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

M-ch/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.16 mW/g

M-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.4 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.872 mW/g; SAR(10 g) = 0.503 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

M-ch/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

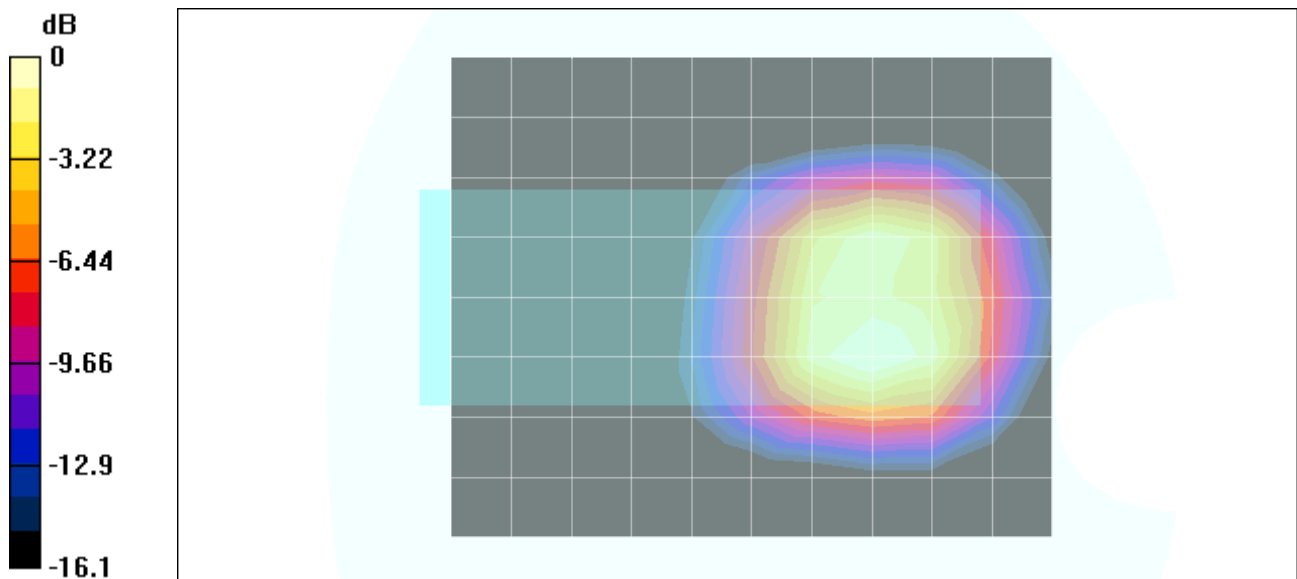
Reference Value = 10.4 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.770 mW/g; SAR(10 g) = 0.465 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.02 mW/g



0 dB = 1.02mW/g

Test Laboratory: Compliance Certification Services

Host # 2

DUT: WJ Communicatrions; Type: MPR50xx; Serial: n/a

Phantom section: Flat Section

Frequency: 927.25 MHz; Duty Cycle: 1:2.13

Medium parameters used (interpolated): $f = 927.25$ MHz; $\sigma = 1.11$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

- **Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.5 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10.1, 10.1, 10.1);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 12/23/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

H-ch/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.859 mW/g

H-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.77 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.633 mW/g; SAR(10 g) = 0.363 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.861 mW/g

H-ch/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

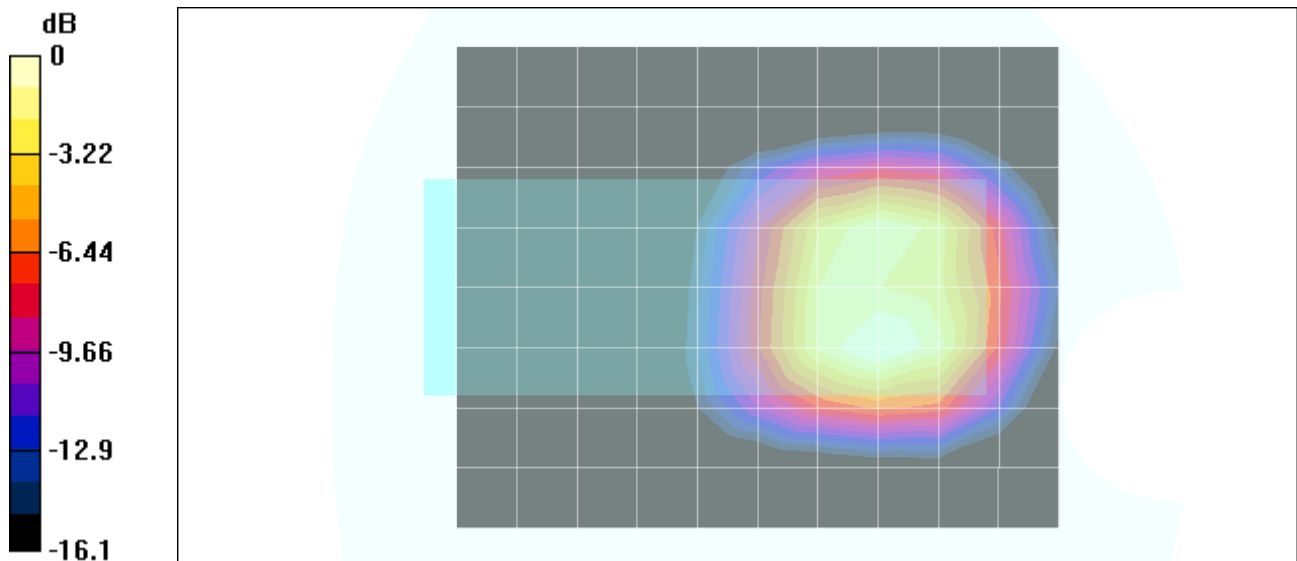
Reference Value = 8.77 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.984 W/kg

SAR(1 g) = 0.566 mW/g; SAR(10 g) = 0.340 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.757 mW/g



Test Laboratory: Compliance Certification Services

Host # 3

DUT: WJ Communicatrions; Type: MPR50xx; Serial: n/a

Phantom section: Flat Section

Frequency: 902.75 MHz; Duty Cycle: 1:2.13

Medium parameters used (interpolated): $f = 902.75$ MHz; $\sigma = 1.09$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

- **Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.5 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10.1, 10.1, 10.1);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 12/23/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

L-ch/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.75 mW/g

L-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

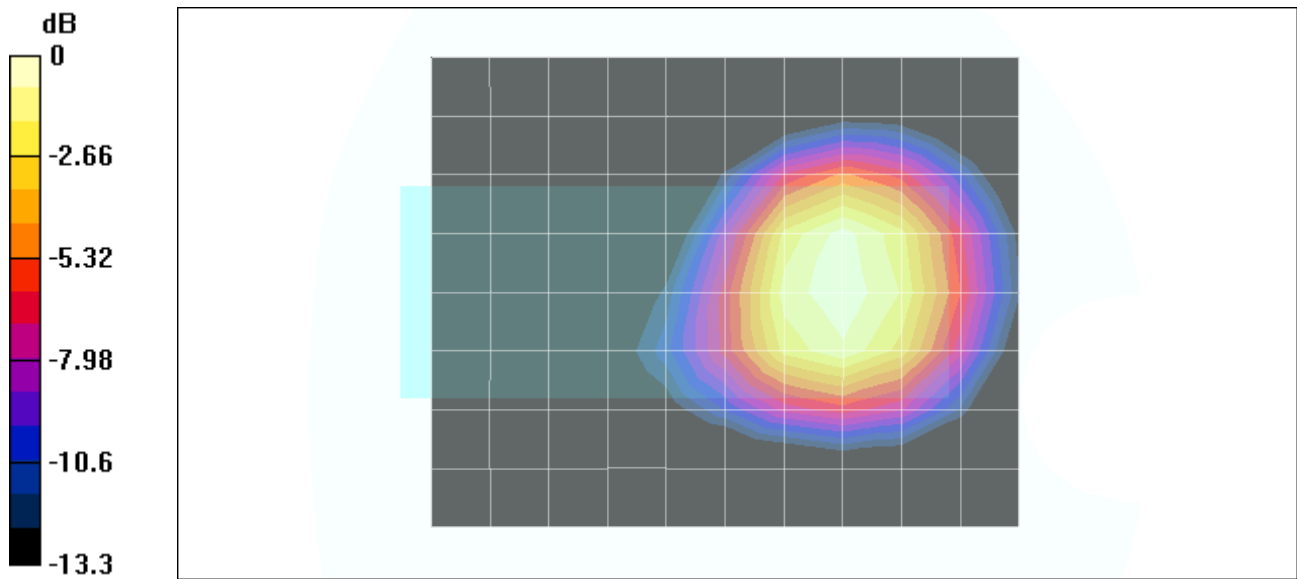
Reference Value = 14.1 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 1.48 mW/g; SAR(10 g) = 1 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.82 mW/g



0 dB = 1.82mW/g

Test Laboratory: Compliance Certification Services

Host # 3

DUT: WJ Communicatrions; Type: MPR50xx; Serial: n/a

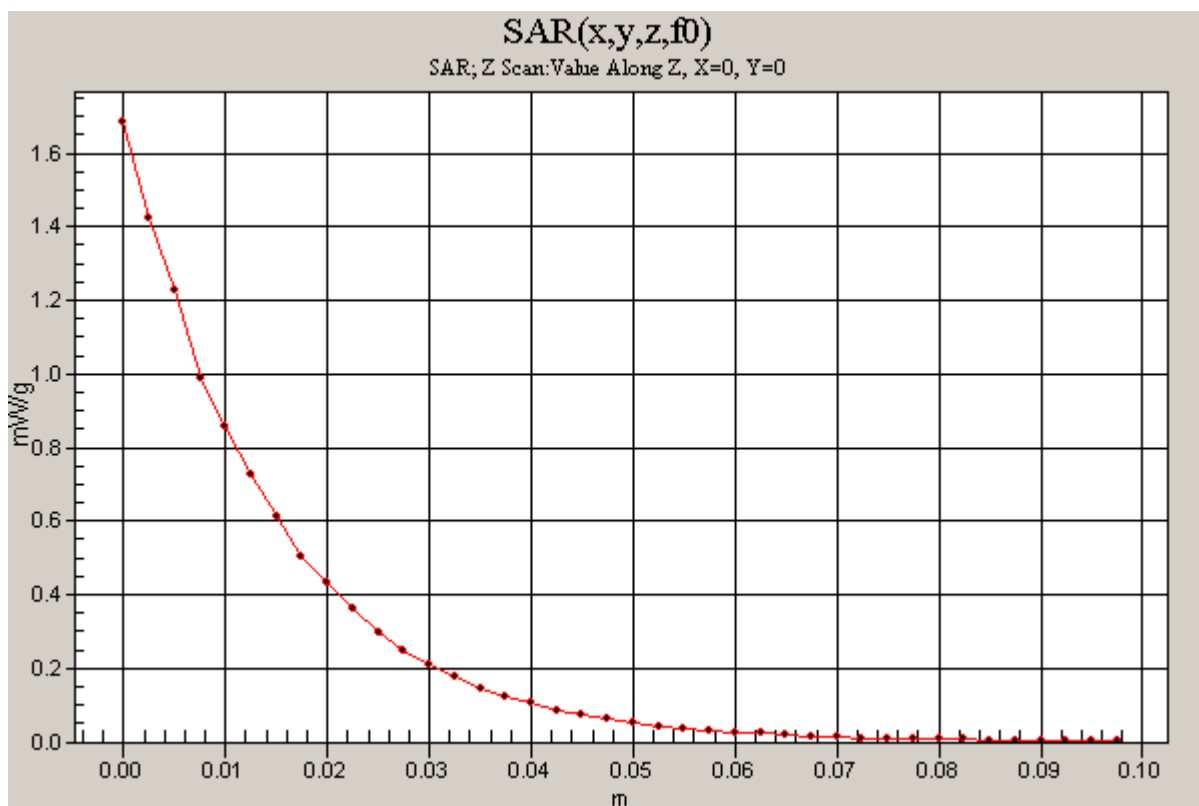
Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

L-ch/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.68 mW/g



Test Laboratory: Compliance Certification Services

Host # 3

DUT: WJ Communicatrions; Type: MPR50xx; Serial: n/a

Phantom section: Flat Section

Frequency: 914.75 MHz; Duty Cycle: 1:2.13

Medium parameters used (interpolated): $f = 914.75$ MHz; $\sigma = 1.09$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

- **Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.5 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10.1, 10.1, 10.1);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 12/23/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

M-ch/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.28 mW/g

M-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

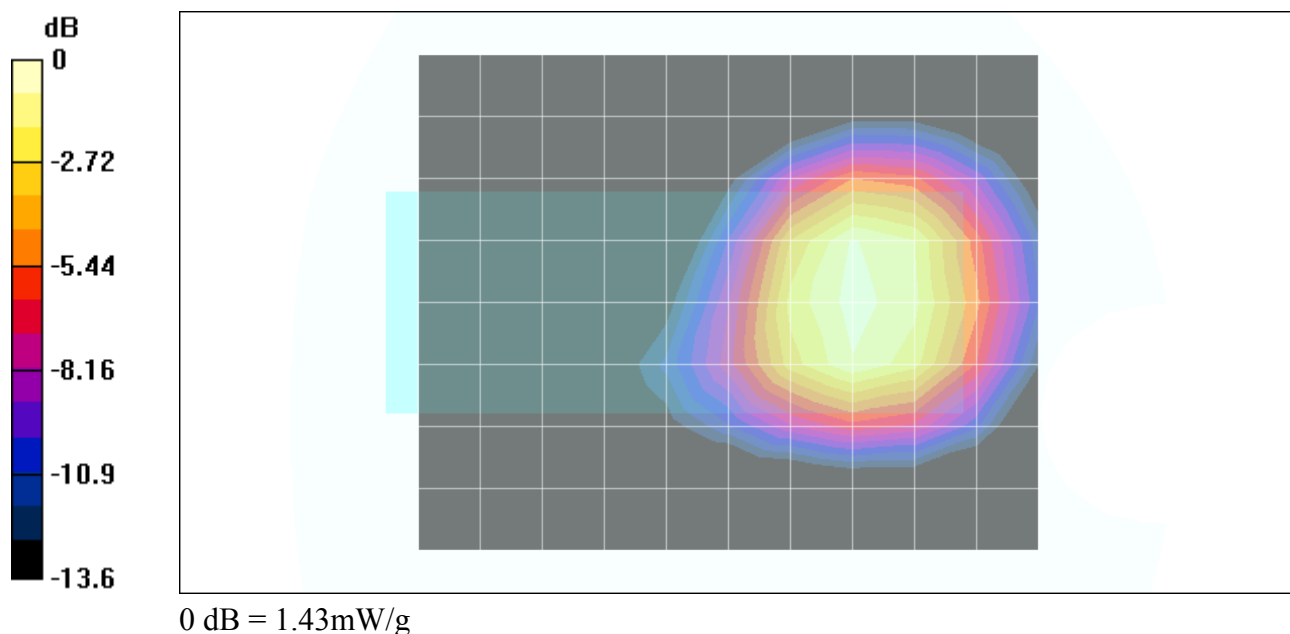
Reference Value = 11.5 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.768 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 1.43 mW/g



Test Laboratory: Compliance Certification Services

Host # 3

DUT: WJ Communicatrions; Type: MPR50xx; Serial: n/a

Phantom section: Flat Section

Frequency: 927.25 MHz; Duty Cycle: 1:2.13

Medium parameters used (interpolated): $f = 927.25$ MHz; $\sigma = 1.11$ mho/m; $\epsilon_r = 54.4$; $\rho = 1000$ kg/m³

Measurement Standard: DASY4 (High Precision Assessment)

- **Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.5 deg. C**
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10.1, 10.1, 10.1);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 12/23/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

H-ch/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.805 mW/g

H-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.748 mW/g; SAR(10 g) = 0.492 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.902 mW/g

