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	Author Data Jean-Paul Hacquoil	Dates of Test July 23-August 12, 2009	Test Report No RTS-1765-0907-30

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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Jean-Paul Hacquoil	July 23-August 12, 2009	RTS-1765-0907-30	L6ARCK70CW

Date/Time: 23/07/2009 12:52:59 PM

Test Laboratory: RTS

File Name: [DipoleValidation_835MHz_Amb_Tem_23.0_Liq_Tem_21.9_C.da4](#)

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446
Program Name: System Performance Check at 835 MHz

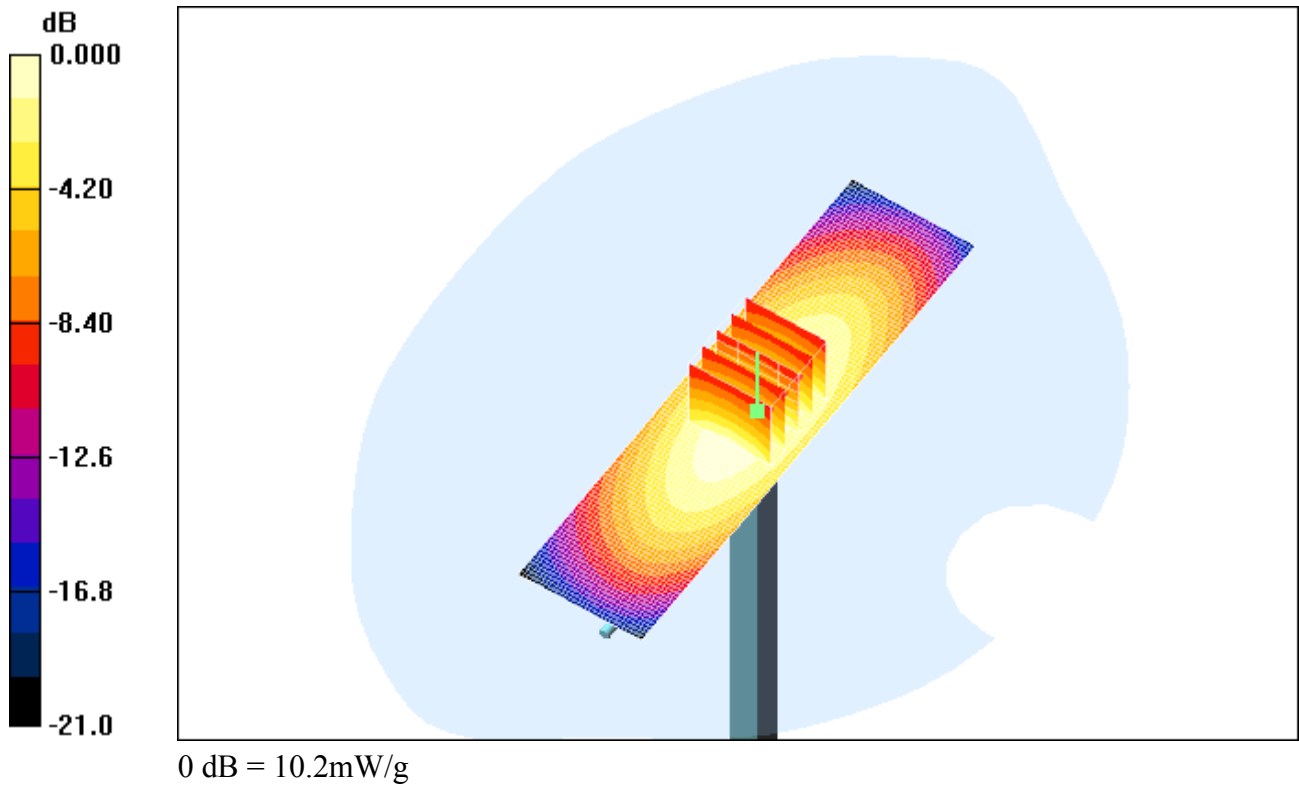
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.864 \text{ mho/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section


DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 112.8 V/m; Power Drift = 0.001 dB
Peak SAR (extrapolated) = 13.8 W/kg
SAR(1 g) = 9.47 mW/g; SAR(10 g) = 6.22 mW/g
Maximum value of SAR (measured) = 10.2 mW/g

d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 10.2 mW/g



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Jean-Paul Hacquoil	July 23-August 12, 2009	RTS-1765-0907-30	L6ARCK70CW

Date/Time: 10/08/2009 6:18:16 PM

Test Laboratory: RTS

File Name: [DipoleValidation_835MHz_Amb_Tem_23.3_Liq_Tem_22.8_C.da4](#)

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Program Name: System Performance Check at 835 MHz

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement

grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 111.0 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 13.3 W/kg

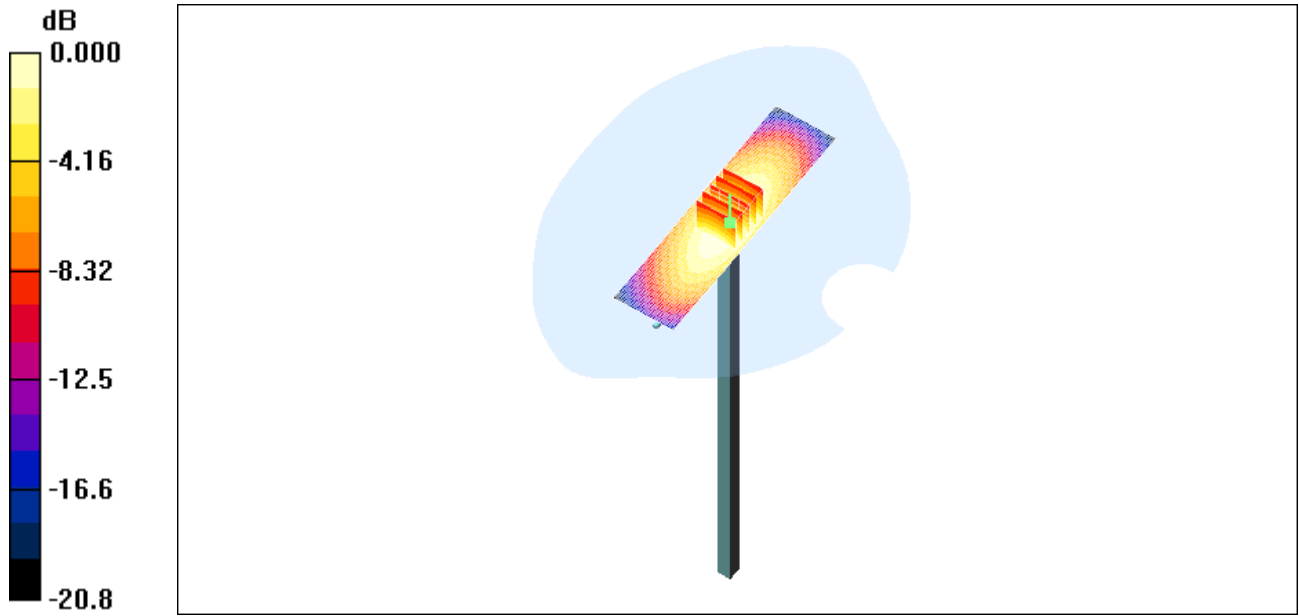
SAR(1 g) = 9.16 mW/g; SAR(10 g) = 6.04 mW/g

Maximum value of SAR (measured) = 9.87 mW/g


d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement grid: $dx=15\text{mm}$,

$dy=15\text{mm}$

Maximum value of SAR (interpolated) = 9.84 mW/g



0 dB = 9.84mW/g

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Jean-Paul Hacquoil	July 23-August 12, 2009	RTS-1765-0907-30	L6ARCK70CW

Date/Time: 27/07/2009 11:16:28 PM

Test Laboratory: RTS

File Name: [DipoleValidation_1900MHz_Amb_Tem_22.9_Liq_Tem_22.3_C.da4](#)

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Program Name: System Performance Check at 1900 MHz

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 191.1 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 71.5 W/kg

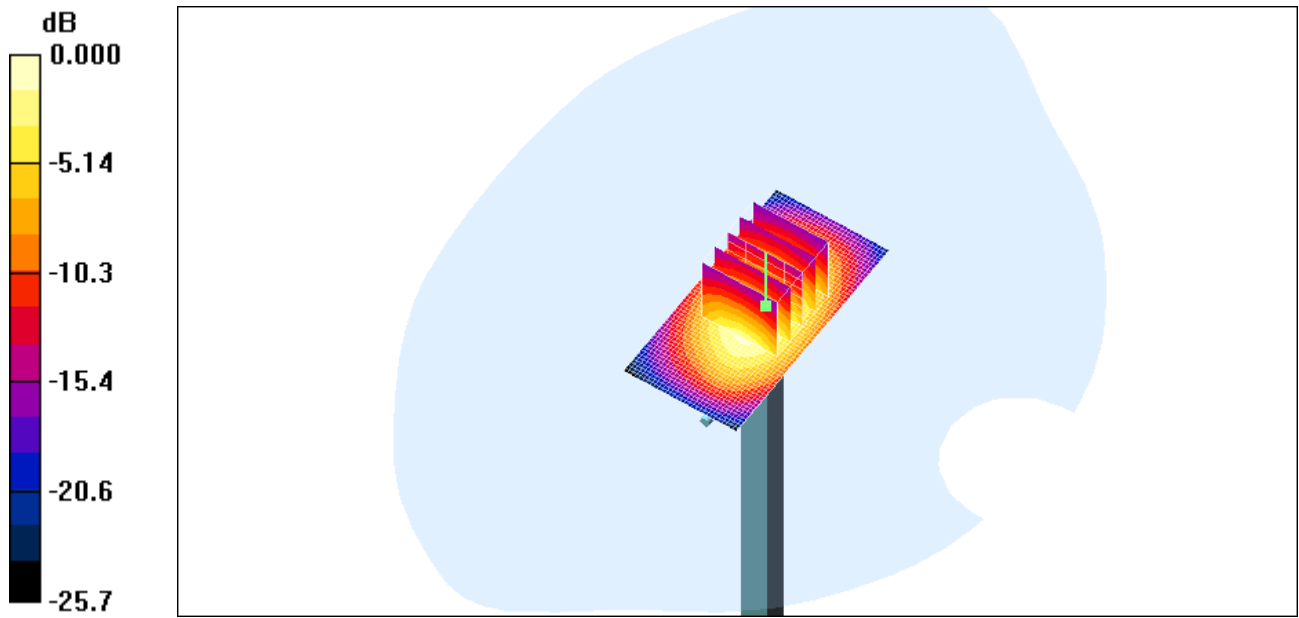
SAR(1 g) = 41.2 mW/g; SAR(10 g) = 21.6 mW/g

Maximum value of SAR (measured) = 46.9 mW/g


d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 48.3 mW/g



0 dB = 48.3mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:
Jean-Paul Hacquoil	July 23-August 12, 2009	RTS-1765-0907-30	L6ARCK70CW

Date/Time: 29/07/2009 10:49:39 AM

Test Laboratory: RTS

File Name:

[DipoleValidation 1900MHz Amb Tem 22.8 Liq Tem 22.3 C 07 29 09.da4](#)

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Program Name: System Performance Check at 1900 MHz

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 191.2 V/m; Power Drift = -0.080 dB

Peak SAR (extrapolated) = 71.3 W/kg

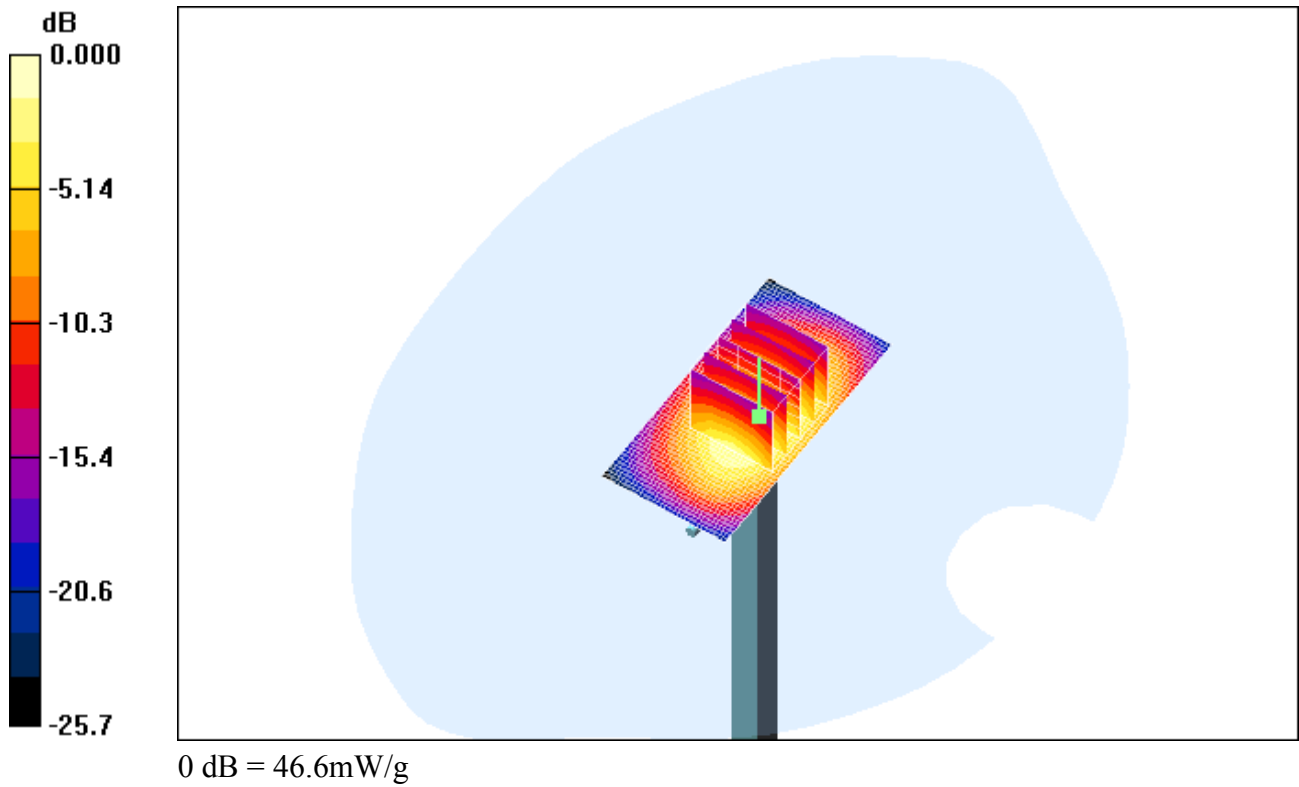
SAR(1 g) = 41.1 mW/g; SAR(10 g) = 21.5 mW/g


Maximum value of SAR (measured) = 46.8 mW/g

d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 46.6 mW/g



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Author Data	Dates of Test	Test Report No	FCC ID:
Jean-Paul Hacquoil	July 23-August 12, 2009	RTS-1765-0907-30	L6ARCK70CW

Date/Time: 11/08/2009 4:38:04 PM

Test Laboratory: RTS

File Name:

[DipoleValidation 1900MHz Amb Tem 23.1 Liq Tem 22.4 C 08 11 09.da4](#)

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Program Name: System Performance Check at 1900 MHz

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.31$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.71, 4.71, 4.71); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 175.4 V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 57.1 W/kg

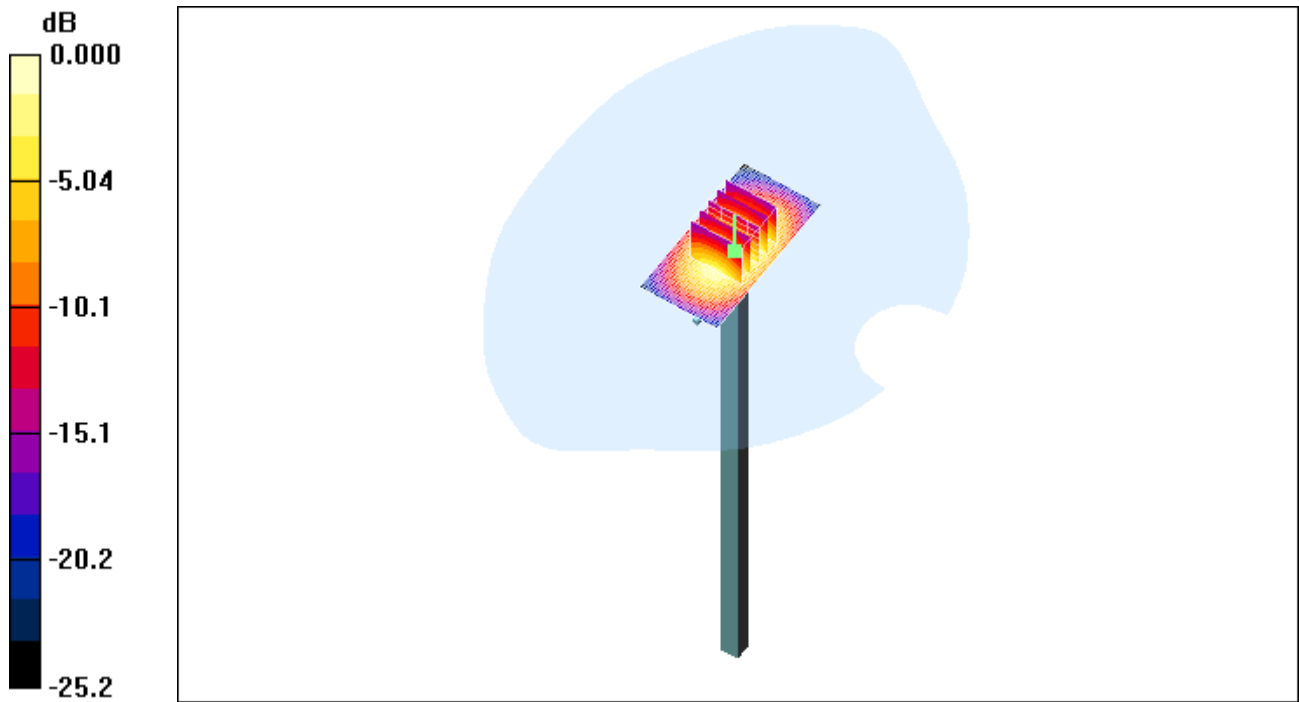
SAR(1 g) = 36 mW/g; SAR(10 g) = 19.3 mW/g

Maximum value of SAR (measured) = 41.3 mW/g


d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 42.0 mW/g



0 dB = 42.0mW/g

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Jean-Paul Hacquoil	July 23-August 12, 2009	RTS-1765-0907-30	L6ARCK70CW

Date/Time: 30/07/2009 7:34:22 PM

Test Laboratory: RTS

File Name: [DipoleValidation_2450MHz_Amb_Tem_23.2_Liq_Tem_22.8_C.da4](#)

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:xxx
Program Name: System Performance Check at 1900 MHz

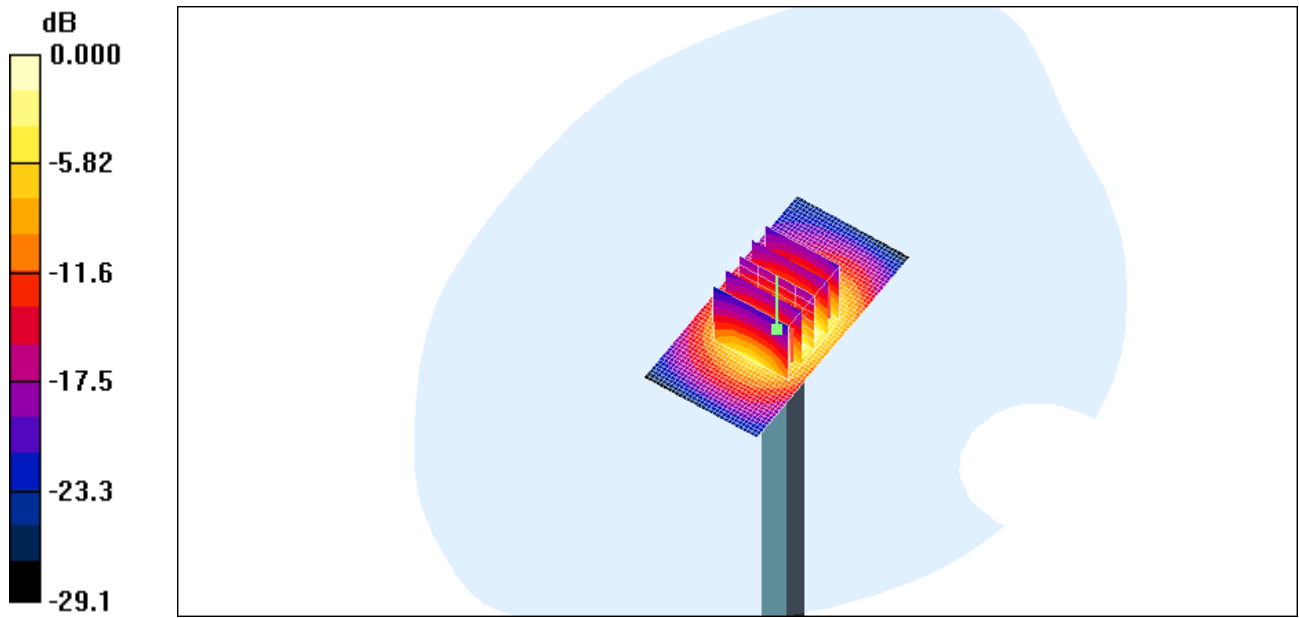
Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:


- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 192.6 V/m; Power Drift = -0.015 dB
Peak SAR (extrapolated) = 128.6 W/kg
SAR(1 g) = 57.8 mW/g; SAR(10 g) = 26.8 mW/g
Maximum value of SAR (measured) = 63.4 mW/g

d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 70.1 mW/g



0 dB = 70.1mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:
Jean-Paul Hacquoil	July 23-August 12, 2009	RTS-1765-0907-30	L6ARCK70CW

Date/Time: 06/08/2009 5:17:21 PM

Test Laboratory: RTS

File Name:

[DipoleValidation 2450MHz Amb Tem 23.0 Liq Tem 21.9 C 08 06 09.da4](#)

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:xxx
Program Name: System Performance Check at 1900 MHz

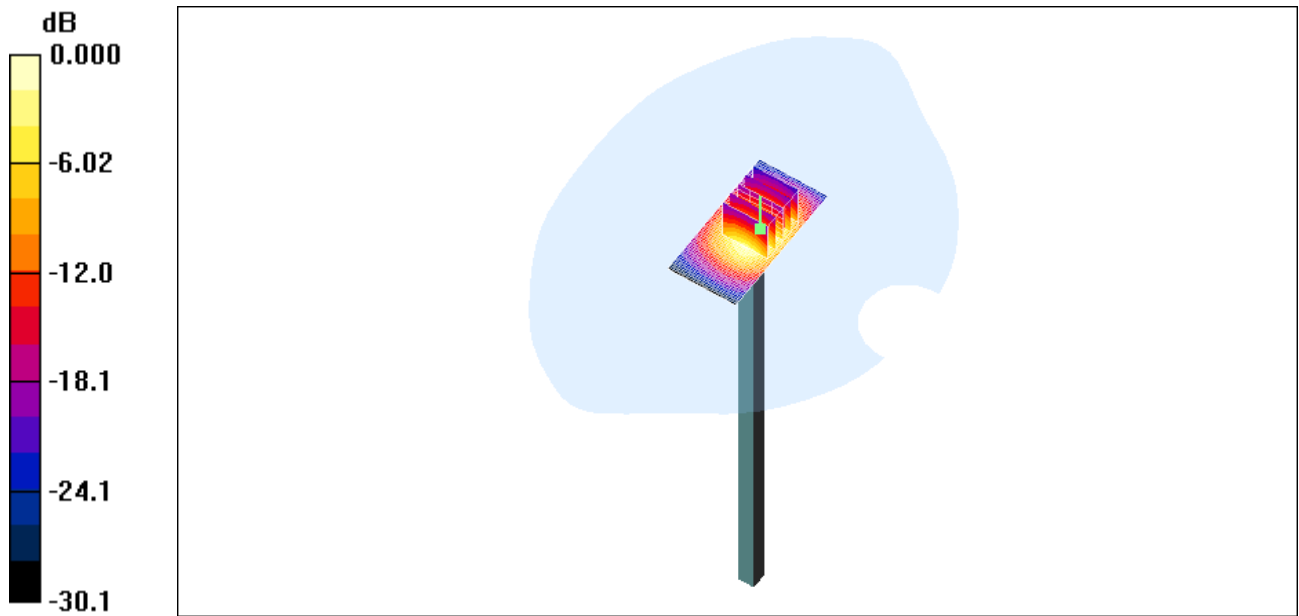
Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 190.6 V/m; Power Drift = -0.062 dB
Peak SAR (extrapolated) = 128.0 W/kg
SAR(1 g) = 57.4 mW/g; SAR(10 g) = 26.5 mW/g
Maximum value of SAR (measured) = 62.3 mW/g

d=15mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 70.0 mW/g



0 dB = 70.0mW/g